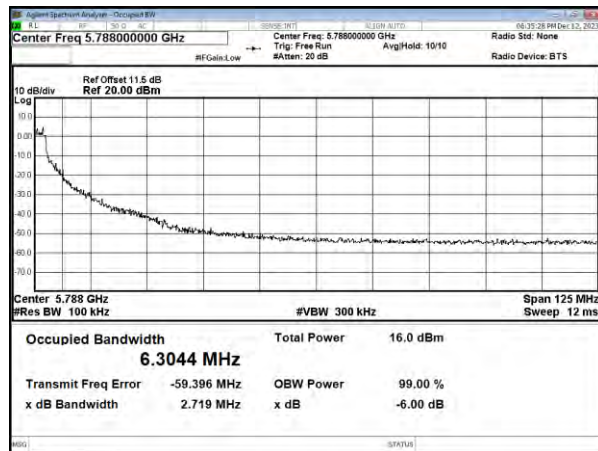




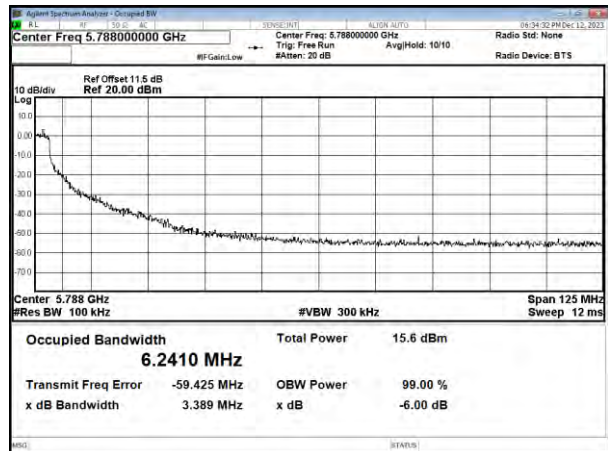
6dB Bandwidth (UNII Emission Bandwidth Result (Extends across 5725MHz band))

Modulation Standard: 802.11a

CH144

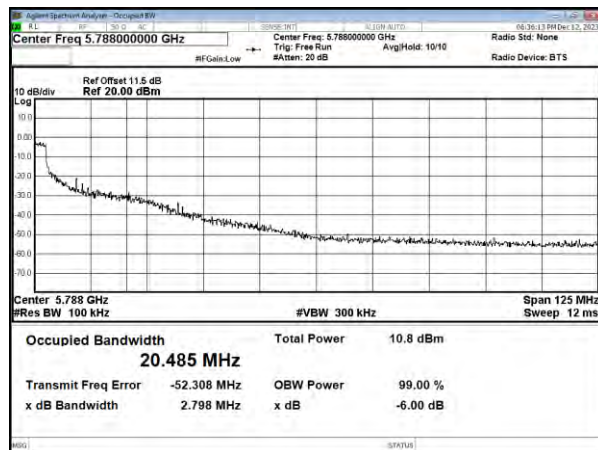


CH144



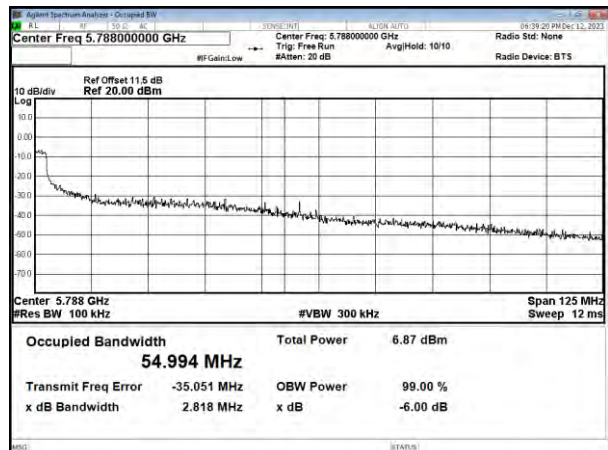
Modulation Standard: 802.11ac VHT40

CH142



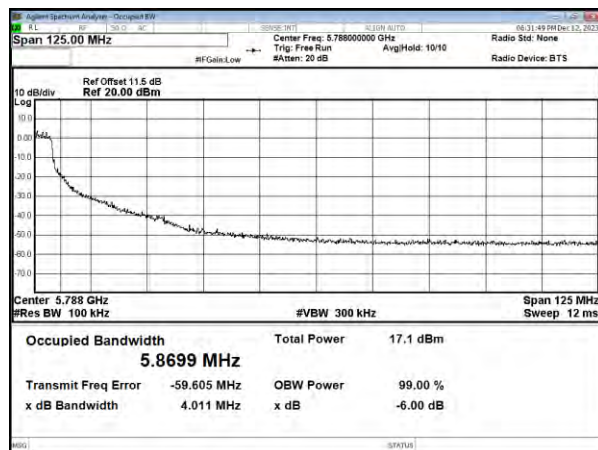
Modulation Standard: 802.11ac VHT80

CH138



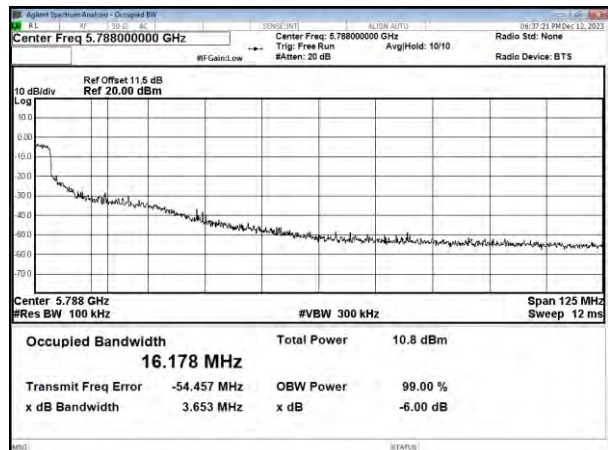
Modulation Standard: 802.11 ax HE20

CH144



Modulation Standard: 802.11 ax HE40

CH142

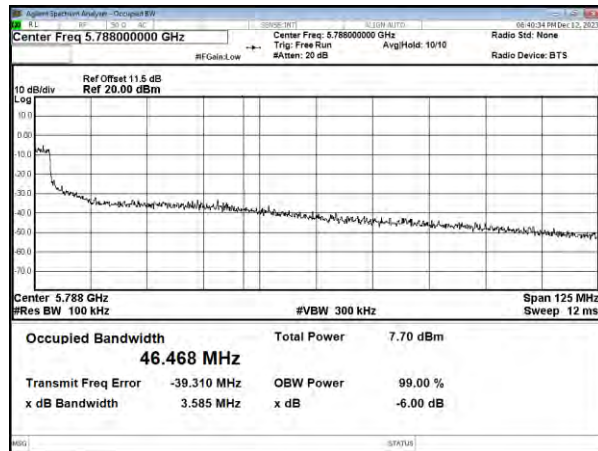




6dB Bandwidth (Extends across 5725MHz band)

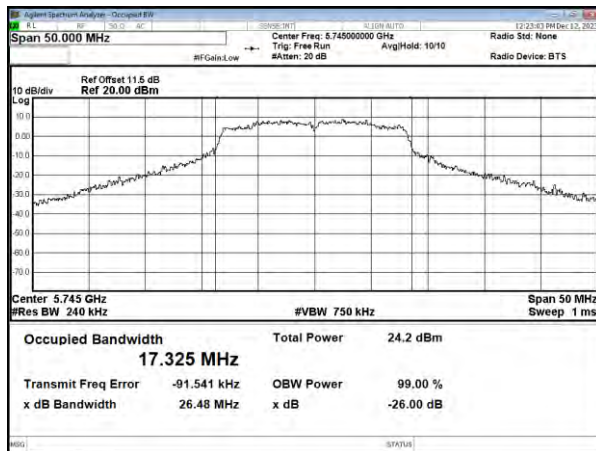
Modulation Standard: 802.11 ax HE80

CH138

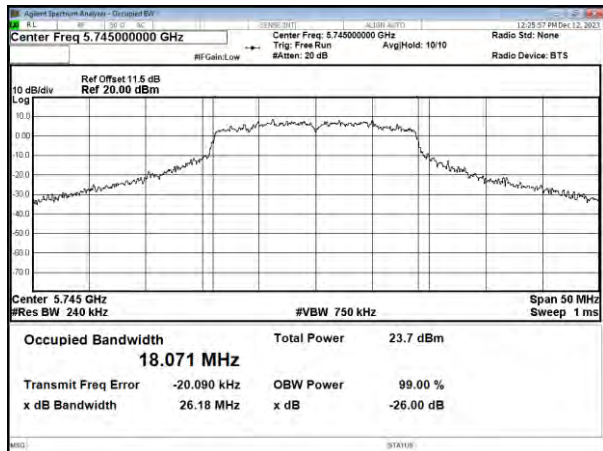




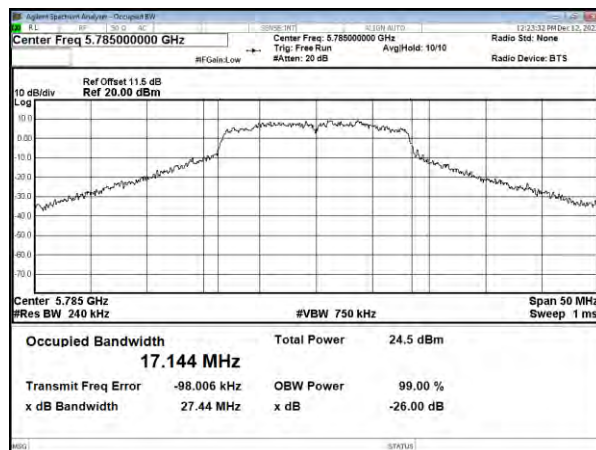
SISO (ANT A)
99% Occupied Bandwidth
Modulation Type: 802.11a
CH149



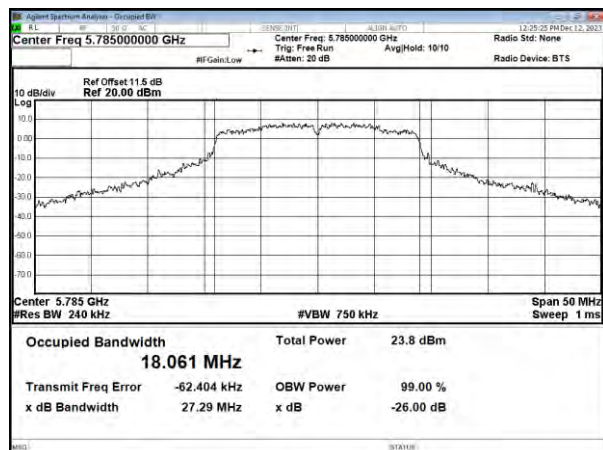
Modulation Type: 802.11ac, VHT20
CH149



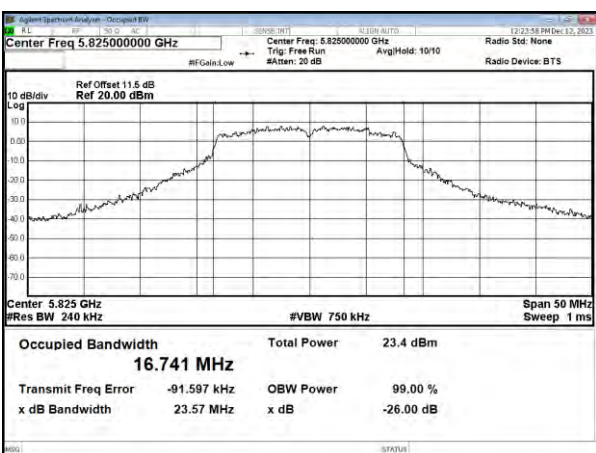
CH157



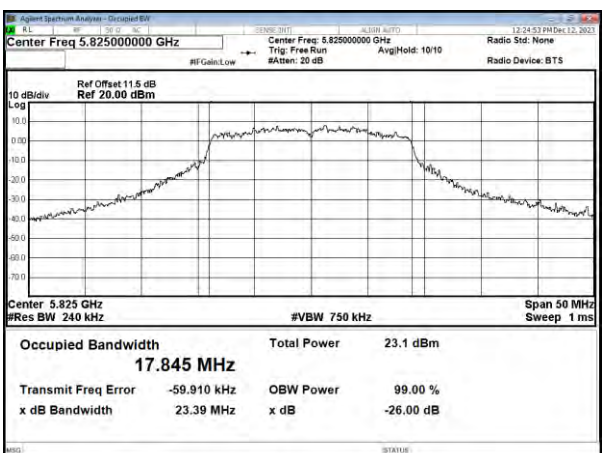
CH157



CH165

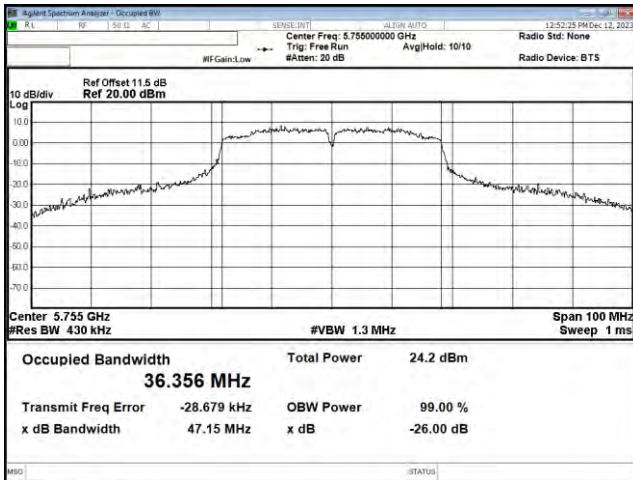


CH165

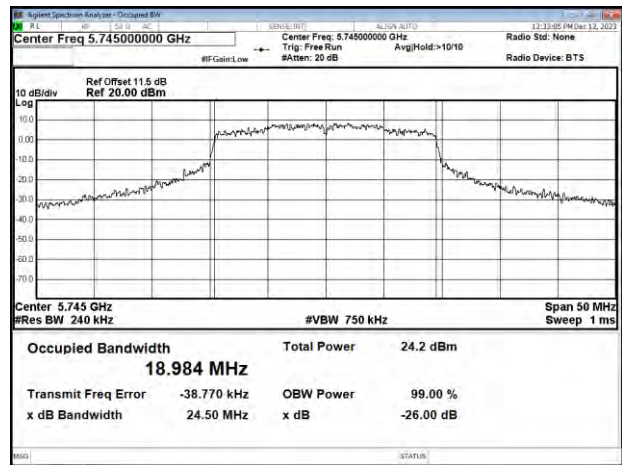




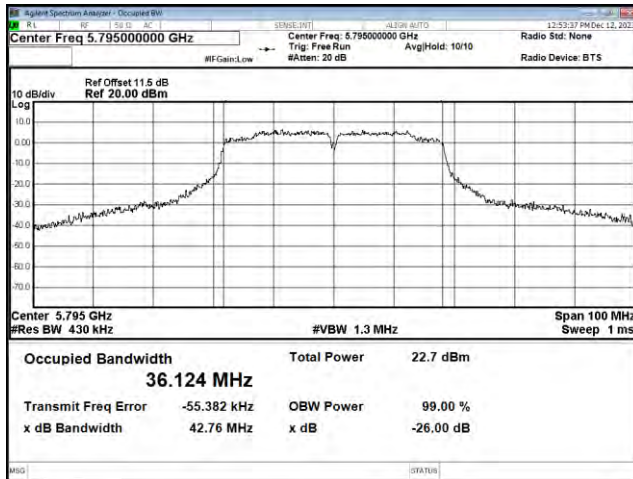
99% Occupied Bandwidth
Modulation Type: 802.11ac, VHT40
CH151



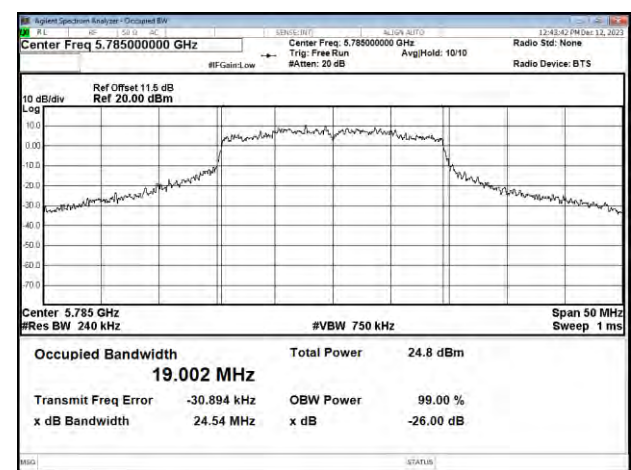
Modulation Type: 802.1111ax HE20
CH149



CH159

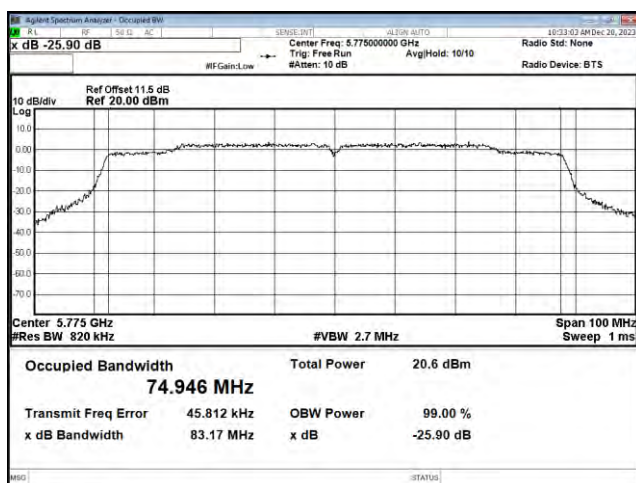


CH157

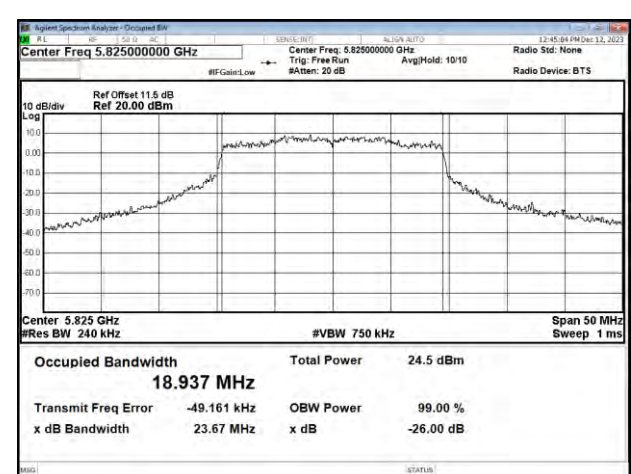


Modulation Type: 802.11ac, VHT80

CH155

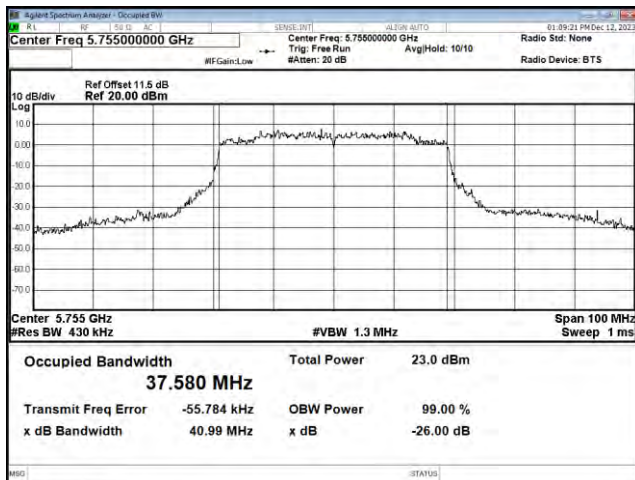


CH165

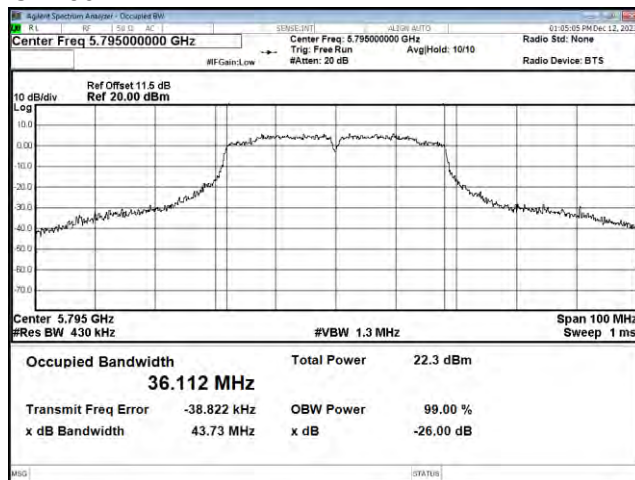




99% Occupied Bandwidth
Modulation Type: 802.11ax HE40
CH151

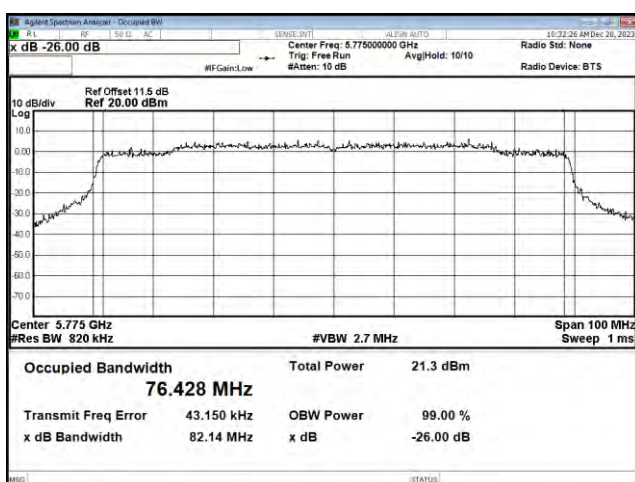


CH159



Modulation Type: 802.11ax HE80

CH155

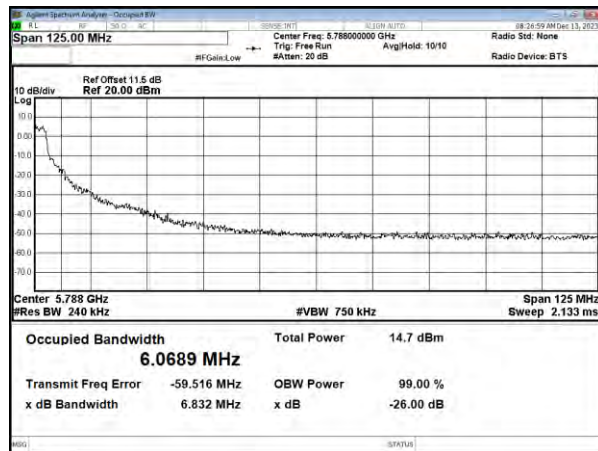




99% Occupied Bandwidth (UNII Emission Bandwidth Result (Extends across 5725MHz band))

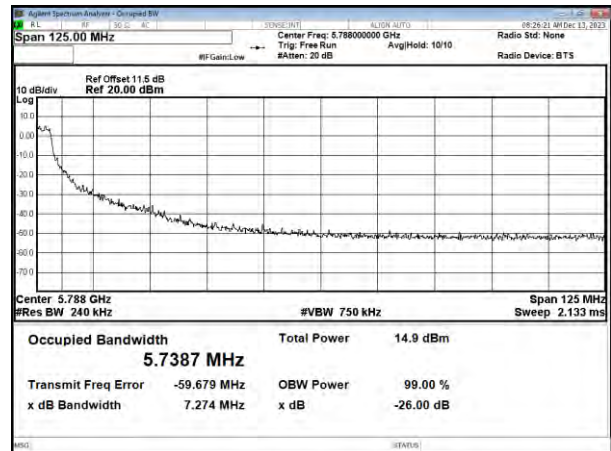
Modulation Standard: 802.11a

CH144



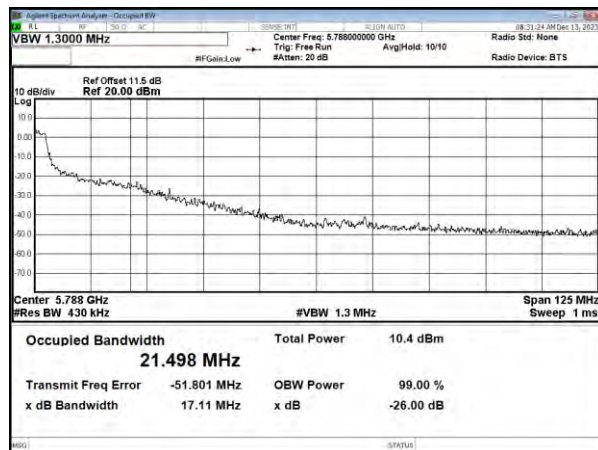
Modulation Standard: 802.11ac VHT20

CH144



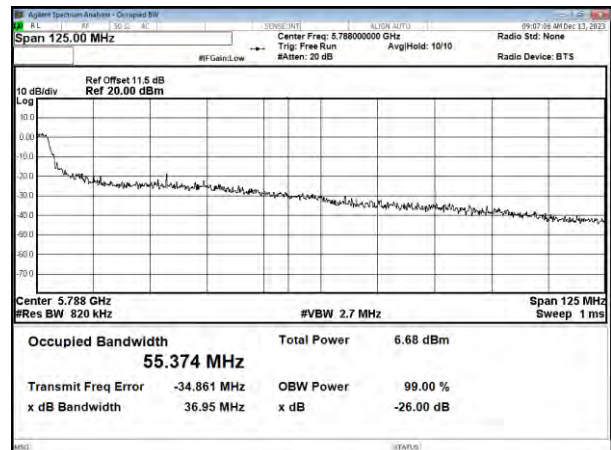
Modulation Standard: 802.11ac VHT40

CH142



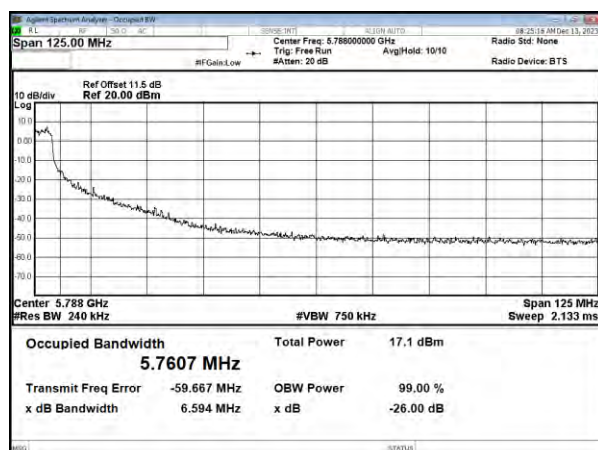
Modulation Standard: 802.11ac VHT80

CH138



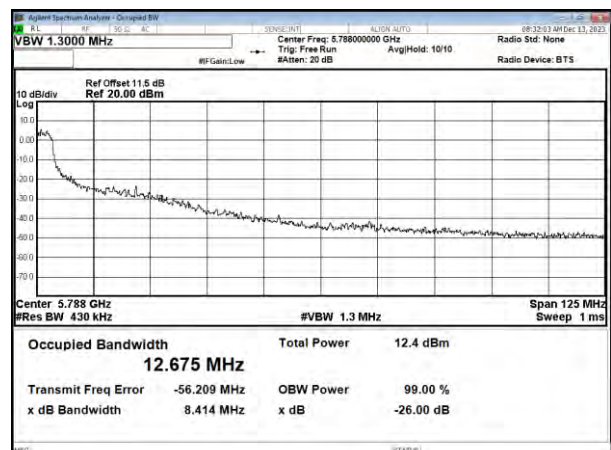
Modulation Standard: 802.11 ax HE20

CH144



Modulation Standard: 802.11 ax HE40

CH142

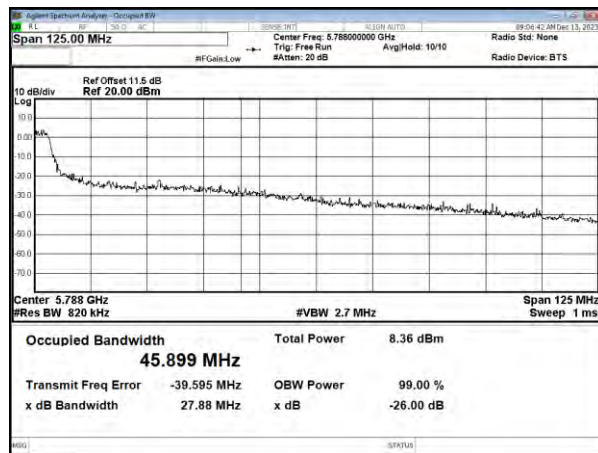




99% Occupied Bandwidth (UNII Emission Bandwidth Result (Extends across 5725MHz band))

Modulation Standard: 802.11 ax HE80

CH138





9. 26dB Bandwidth & 99% Occupied Bandwidth

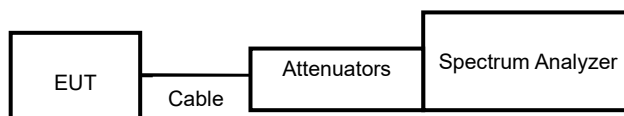
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 v02r01 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout





9.4. Test Result and Data (26dB Bandwidth)

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
802.11a	36	5180	25.69
	44	5220	23.79
	48	5240	23.18
802.11ac VHT20	36	5180	23.98
	44	5220	24.79
	48	5240	24.12
802.11ac VHT40	38	5190	42.66
	46	5230	46.69
802.11ac VHT80	42	5210	83.11
802.11ax HE20	36	5180	23.18
	44	5220	23.46
	48	5240	23.47
802.11ax HE40	38	5190	41.46
	46	5230	44.68
802.11ax HE80	42	5210	81.16

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
802.11a	52	5260	23.29
	60	5300	22.39
	64	5320	22.83
802.11ac VHT20	52	5260	23.20
	60	5300	22.99
	64	5320	23.20
802.11ac VHT40	54	5270	42.76
	62	5310	43.85
802.11ac VHT80	58	5290	83.57
802.11ax HE20	52	5260	21.97
	60	5300	22.31
	64	5320	23.34
802.11ax HE40	54	5270	41.42
	62	5310	42.50
802.11ax HE80	58	5290	82.61

**In the 5.5G Band**

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
802.11a	100	5500	22.88
	116	5580	23.91
	140	5700	22.32
802.11ac VHT20	100	5500	22.98
	116	5580	24.44
	140	5700	22.92
802.11ac VHT40	102	5510	44.88
	110	5550	43.14
	134	5670	45.52
802.11ac VHT80	106	5530	84.79
	122	5610	84.58
802.11ax HE20	100	5500	23.22
	116	5580	23.54
	140	5700	22.60
802.11ax HE40	102	5510	41.70
	110	5550	40.72
	134	5670	43.54
802.11ax HE80	106	5530	81.71
	122	5610	82.45

UNII Emission Bandwidth Result (Within 5470-5725MHz band)

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
			ANT A
11a	144	5720	17.68
11ac VHT20	144	5720	19.15
11ac VHT40	142	5710	38.85
11ac VHT80	138	5690	80.87
11ax HE20	144	5720	17.72
11ax HE40	142	5710	37.38
11ax HE80	138	5690	76.78

**9.5. Test Result and Data (99% Occupied Bandwidth)****In the 5.2G Band**

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11a	36	5180	16.993
	44	5220	16.772
	48	5240	16.673
802.11ac VHT20	36	5180	17.734
	44	5220	17.820
	48	5240	17.857
802.11ac VHT40	38	5190	36.088
	46	5230	36.293
802.11ac VHT80	42	5210	74.969
802.11ax HE20	36	5180	18.959
	44	5220	18.931
	48	5240	18.960
802.11ax HE40	38	5190	37.518
	46	5230	37.583
802.11ax HE80	42	5210	76.445

In the 5.3G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11a	52	5260	16.721
	60	5300	16.561
	64	5320	16.601
802.11ac VHT20	52	5260	17.781
	60	5300	17.719
	64	5320	17.787
802.11ac VHT40	54	5270	36.089
	62	5310	36.109
802.11ac VHT80	58	5290	75.115
802.11ax HE20	52	5260	18.883
	60	5300	18.868
	64	5320	18.918
802.11ax HE40	54	5270	37.452
	62	5310	37.594
802.11ax HE80	58	5290	76.734

**In the 5.5G Band**

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11a	100	5500	16.552
	116	5580	16.823
	140	5700	16.553
802.11ac VHT20	100	5500	17.735
	116	5580	17.933
	140	5700	17.769
802.11ac VHT40	102	5510	36.154
	110	5550	36.093
	134	5670	36.253
802.11ac VHT80	106	5530	75.109
	122	5610	74.943
802.11ax HE20	100	5500	18.870
	116	5580	18.946
	140	5700	18.941
802.11ax HE40	102	5510	37.537
	110	5550	37.557
	134	5670	37.635
802.11ax HE80	106	5530	76.624
	122	5610	76.410

UNII Emission Bandwidth Result (Within 5470-5725MHz band)

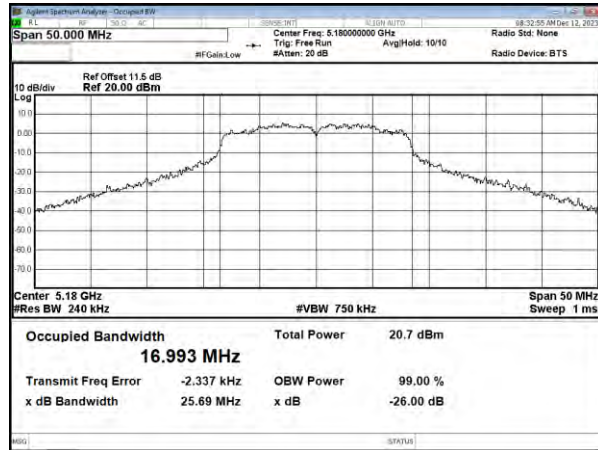
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
			ANT A
11a	144	5720	14.12
11ac VHT20	144	5720	14.68
11ac VHT40	142	5710	33.51
11ac VHT80	138	5690	72.54
11ax HE20	144	5720	15.11
11ax HE40	142	5710	34.25
11ax HE80	138	5690	73.12

**SISO (ANT A)**

26dB Bandwidth & 99% Occupied Bandwidth, UNII-1

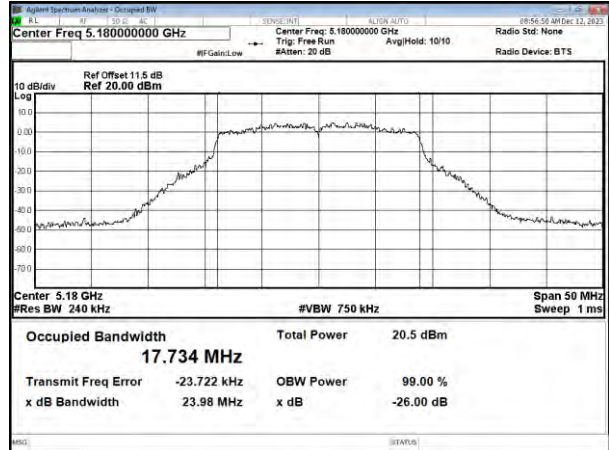
Modulation Standard: 802.11a

CH36

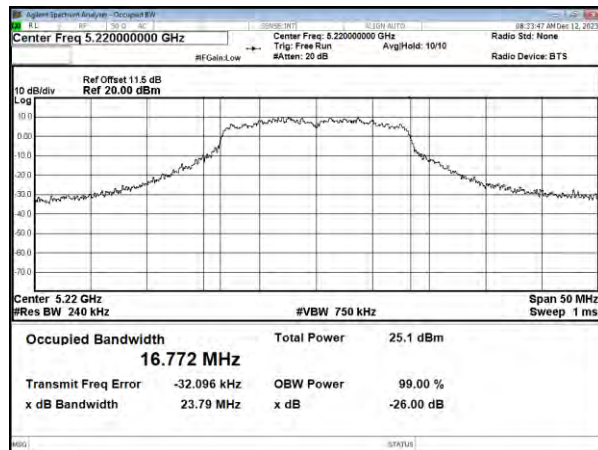


Modulation Standard: 802.11ac VHT20

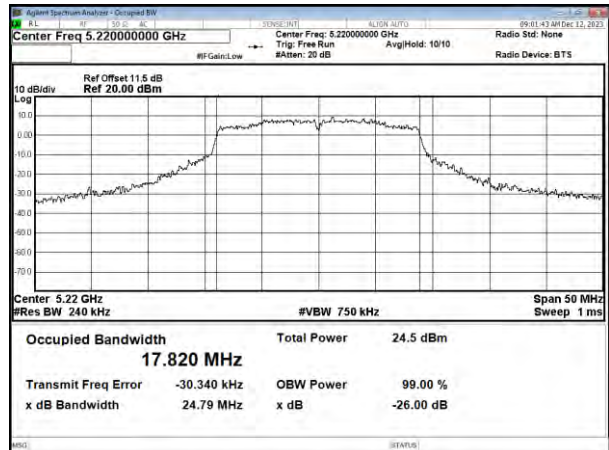
CH36



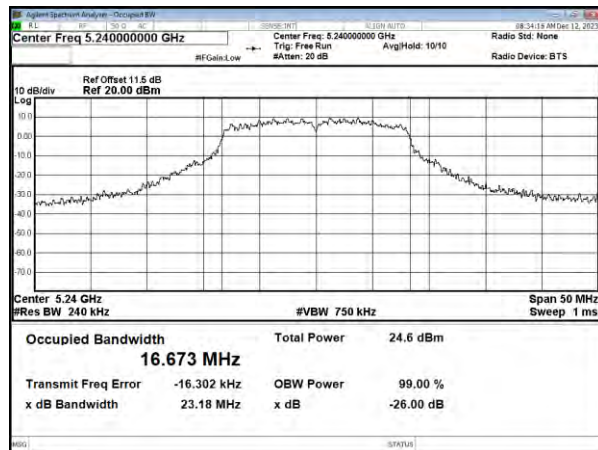
CH44



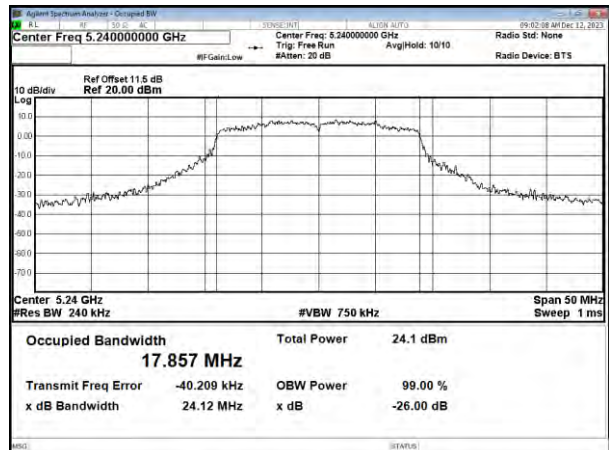
CH44



CH48



CH48

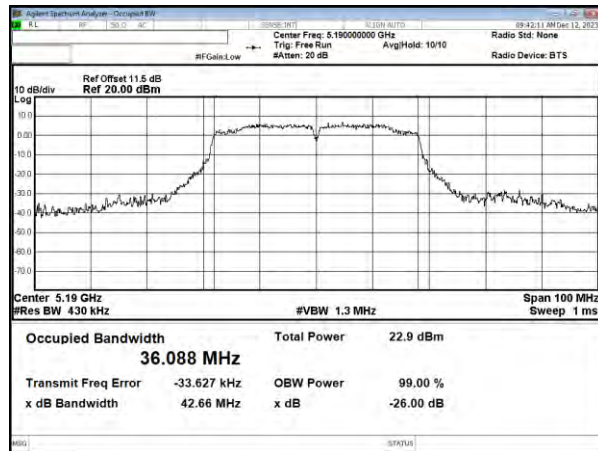




26dB Bandwidth & 99% Occupied Bandwidth, UNII-1

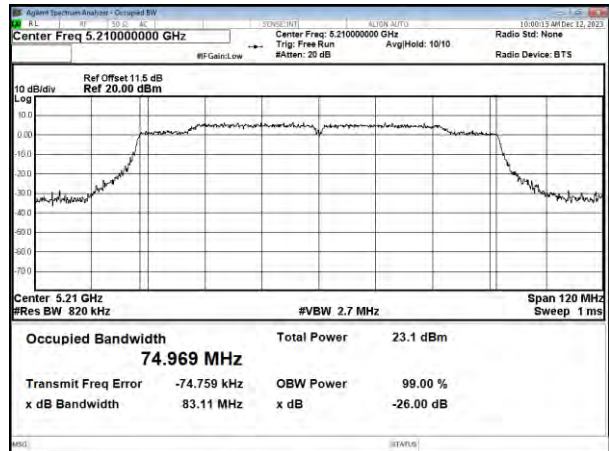
Modulation Standard: 802.11ac VHT40

CH38

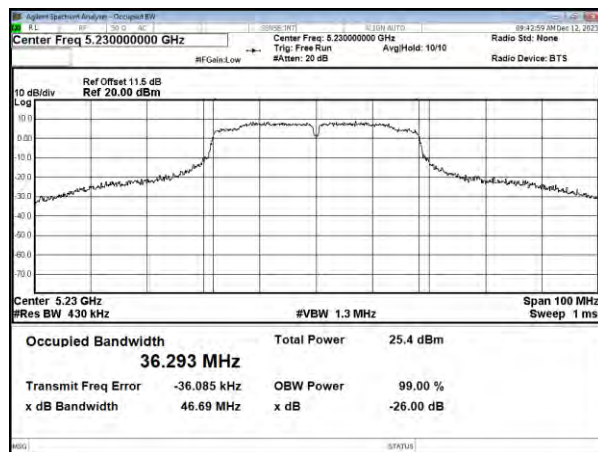


Modulation Standard: 802.11ac VHT80

CH42



CH46

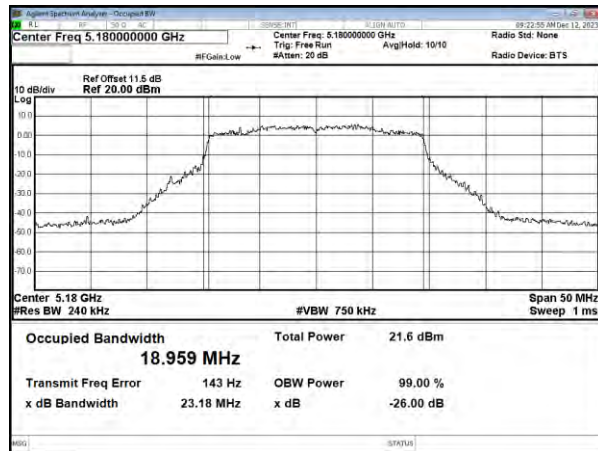




26dB Bandwidth &99% Occupied Bandwidth, UNII-1

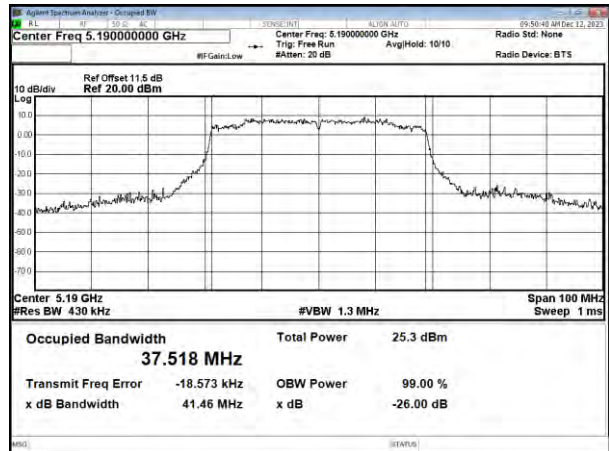
Modulation Standard: 802.11 ax HE20

CH36

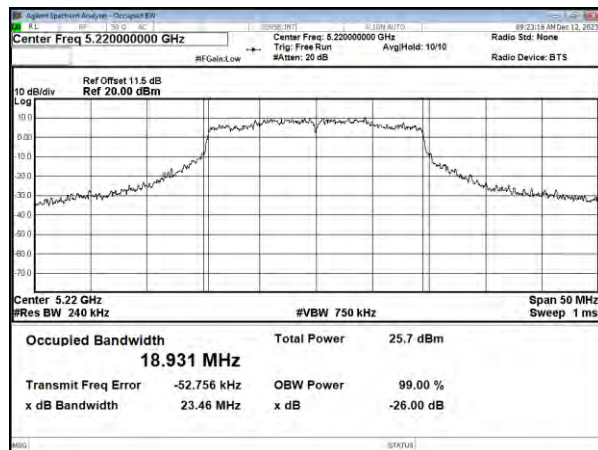


Modulation Standard: 802.11 ax HE40

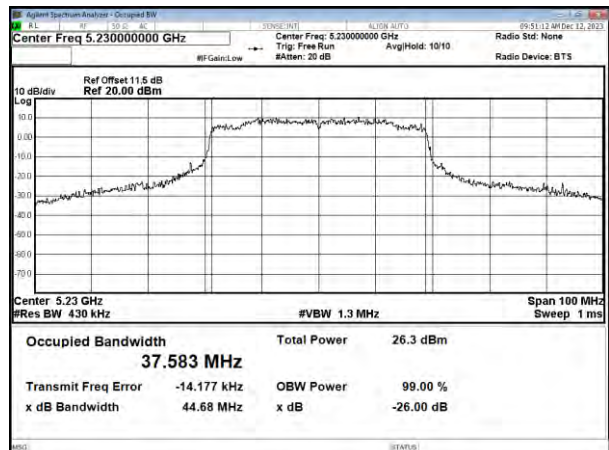
CH38



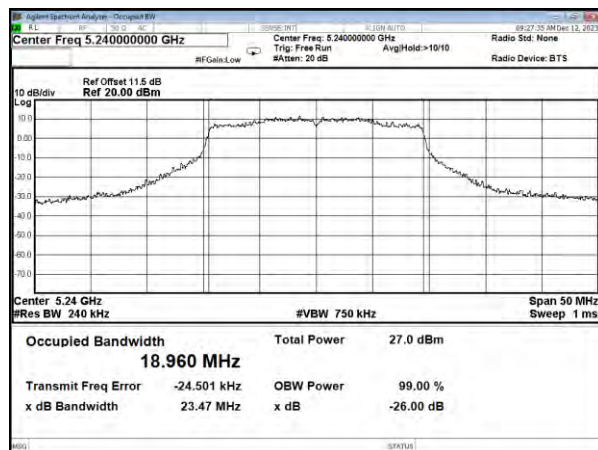
CH44



CH46

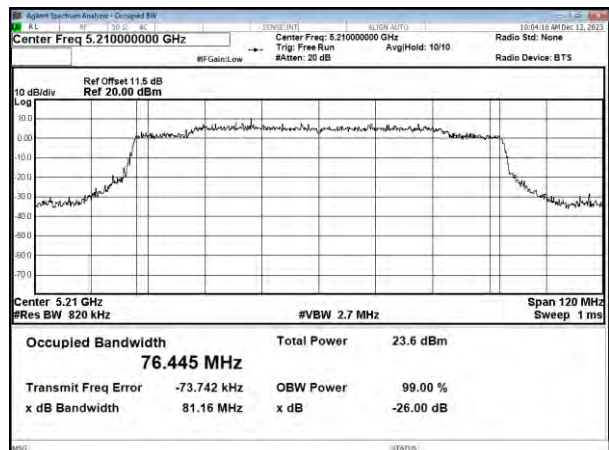


CH48



Modulation Standard: 802.11 ax HE80

CH42

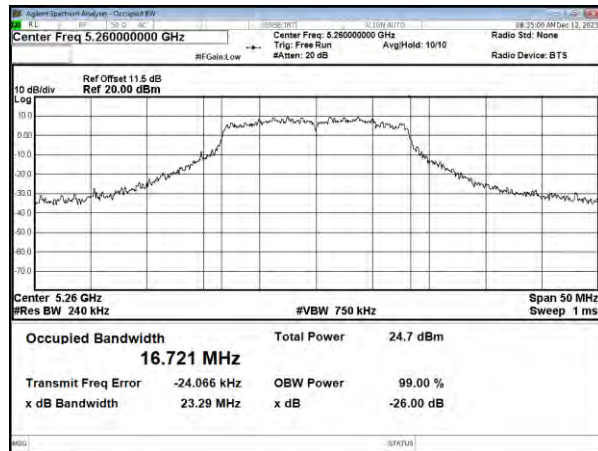




26dB Bandwidth & 99% Occupied Bandwidth, UNII-2A

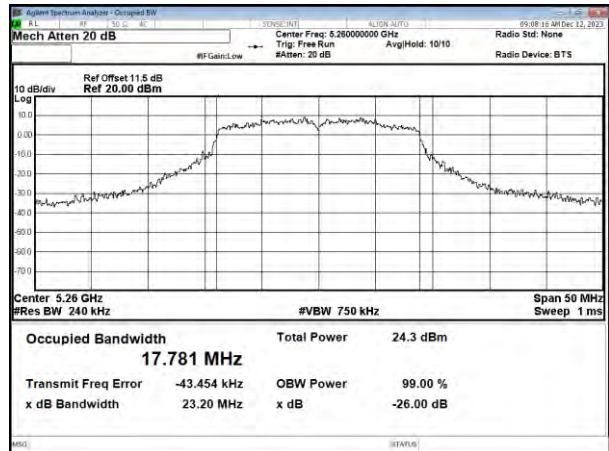
Modulation Standard: 802.11a

CH52

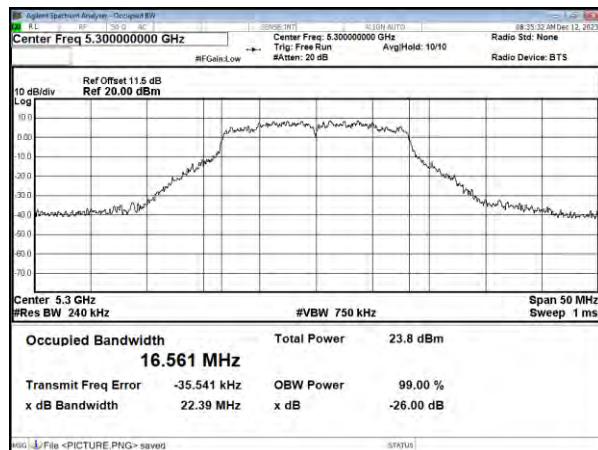


Modulation Standard: 802.11ac VHT20

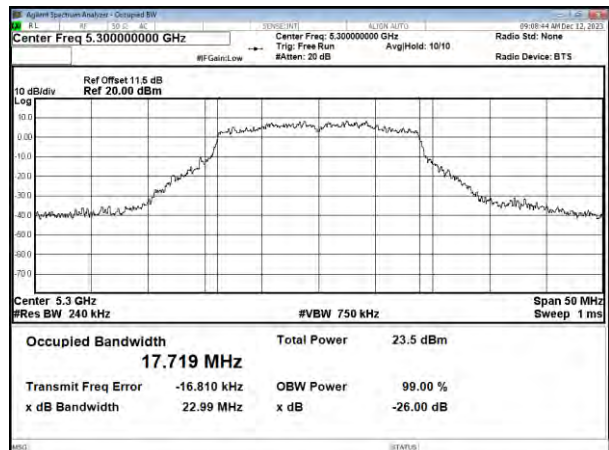
CH52



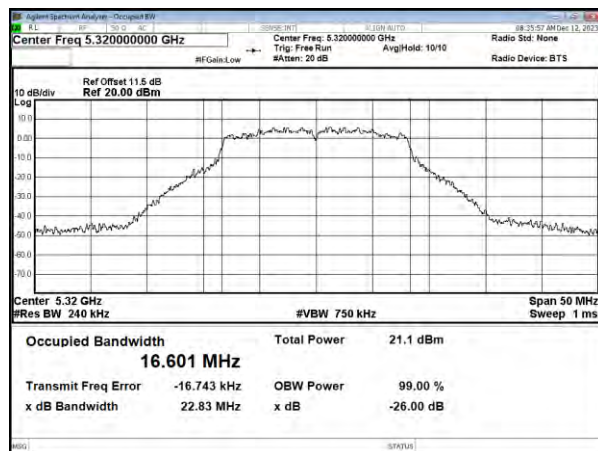
CH60



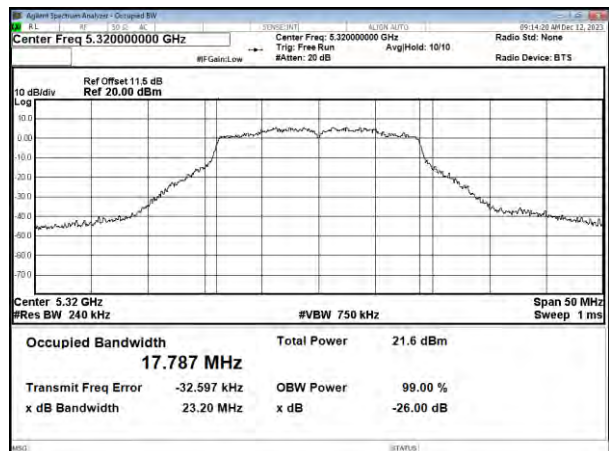
CH60



CH64



CH64

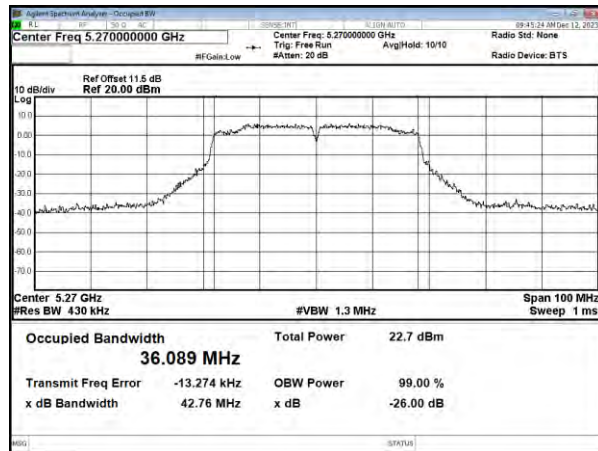




26dB Bandwidth & 99% Occupied Bandwidth, UNII-2A

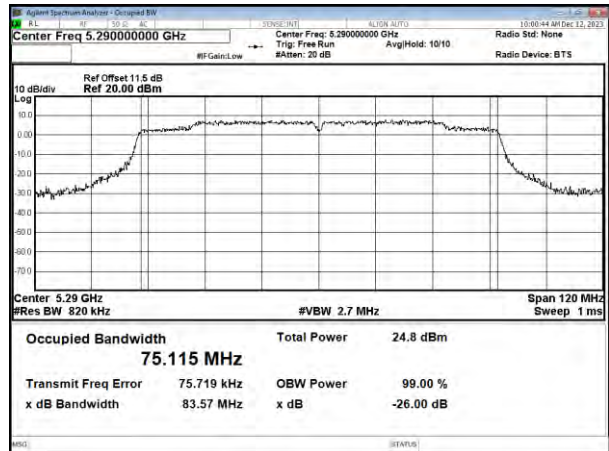
Modulation Standard: 802.11ac VHT40

CH54

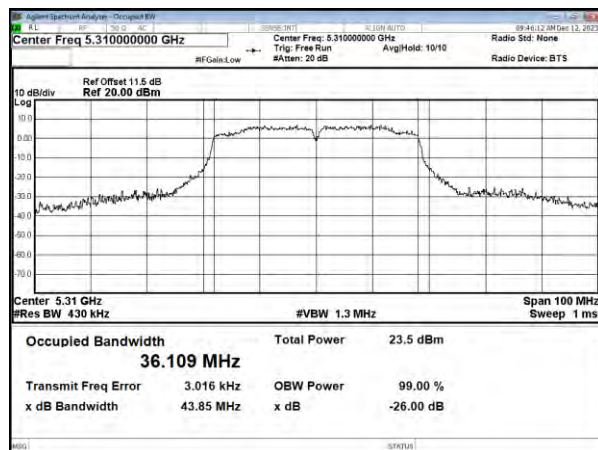


Modulation Standard: 802.11ac VHT80

CH58



CH62

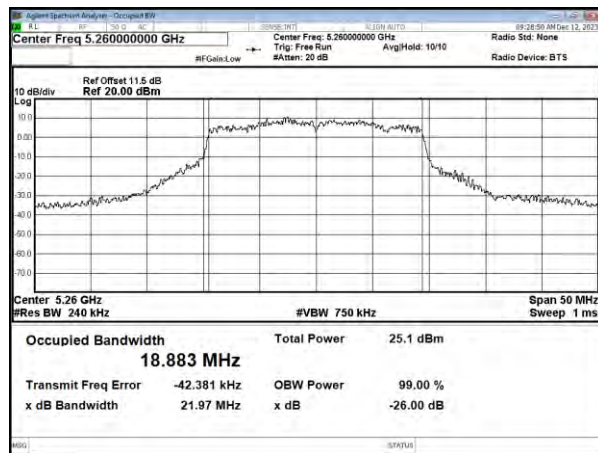




26dB Bandwidth & 99% Occupied Bandwidth, UNII-2A

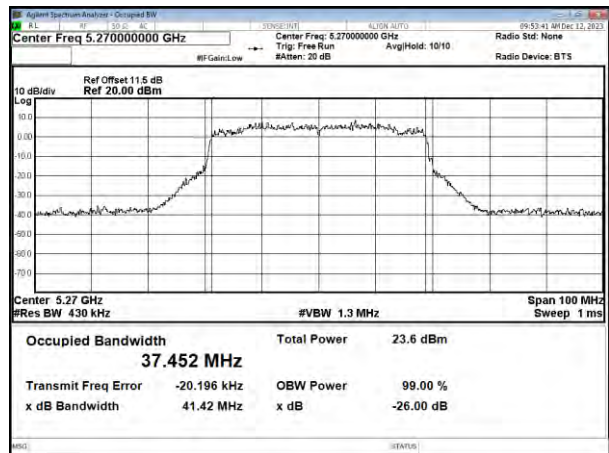
Modulation Standard: 802.11 ax HE20

CH52

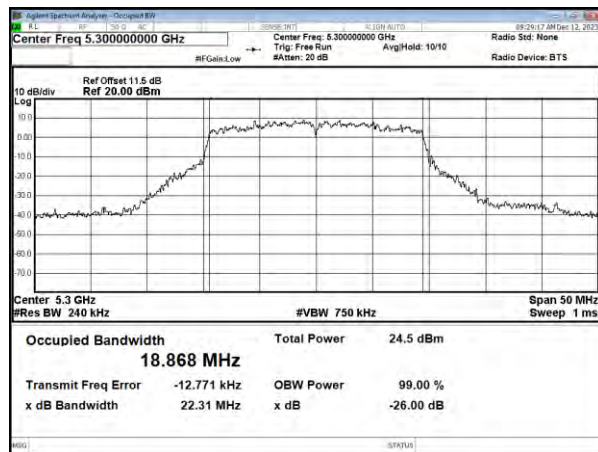


Modulation Standard: 802.11 ax HE40

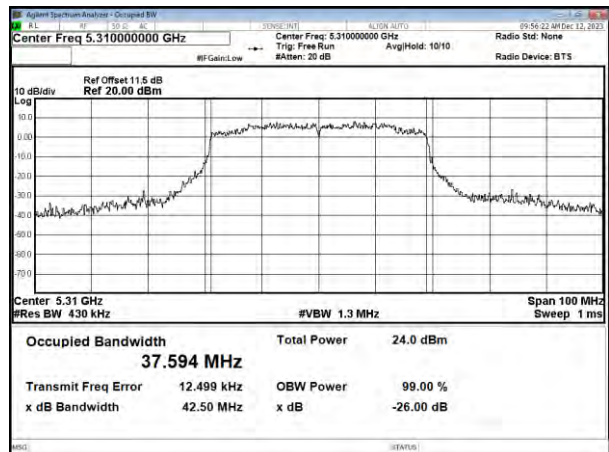
CH54



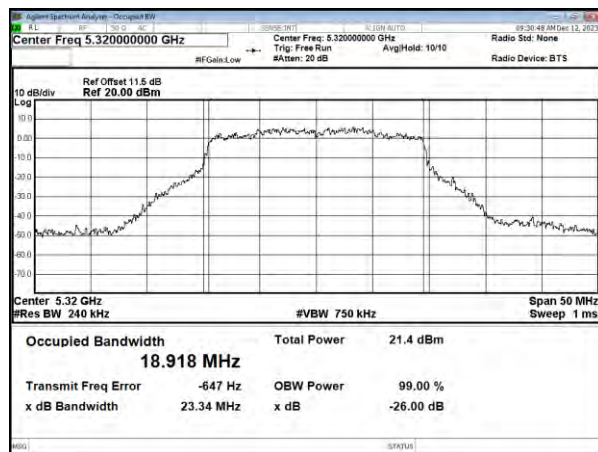
CH60



CH62

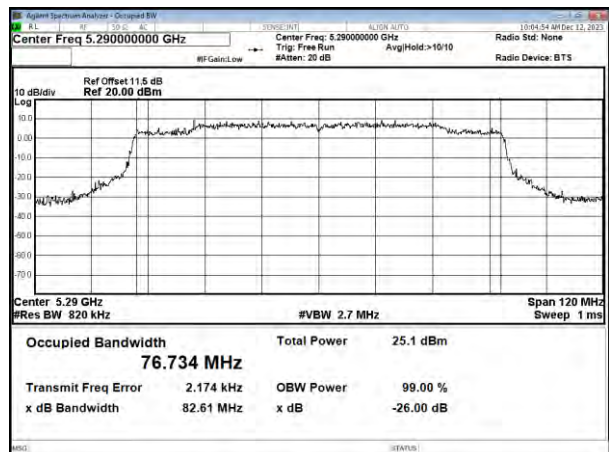


CH64



Modulation Standard: 802.11 ax HE80

CH58

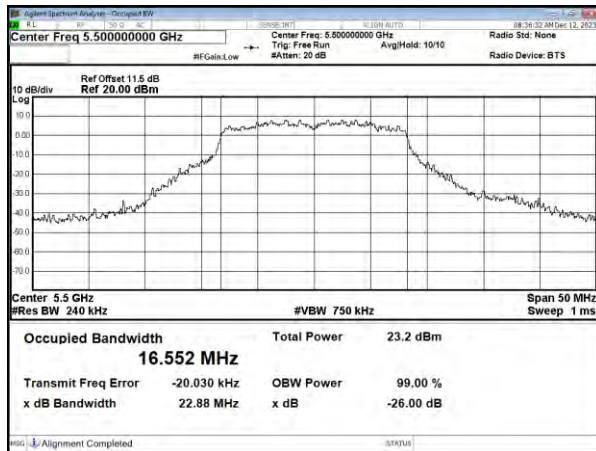




26dB Bandwidth & 99% Occupied Bandwidth, UNII-2C

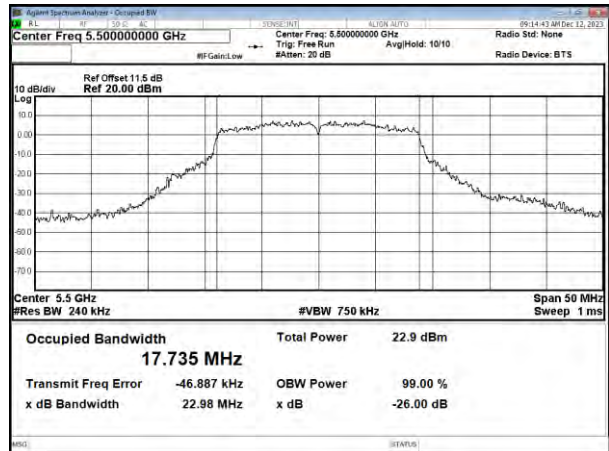
Modulation Standard: 802.11a

CH100

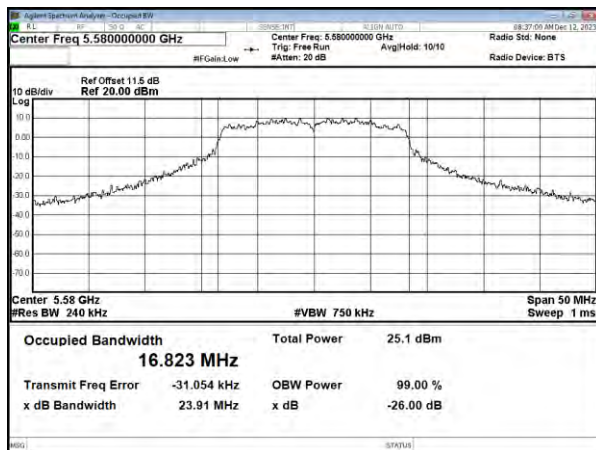


Modulation Standard: 802.11ac VHT20

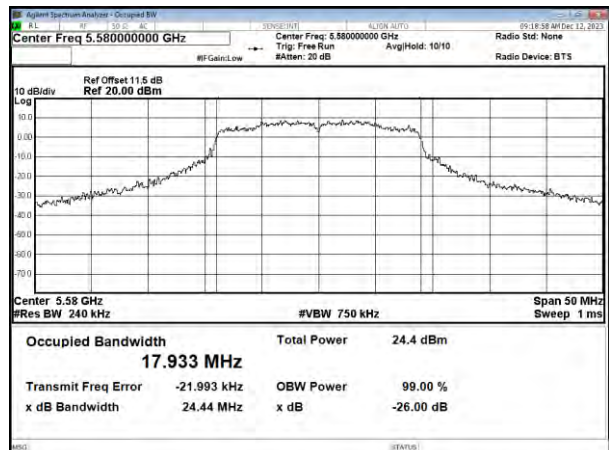
CH100



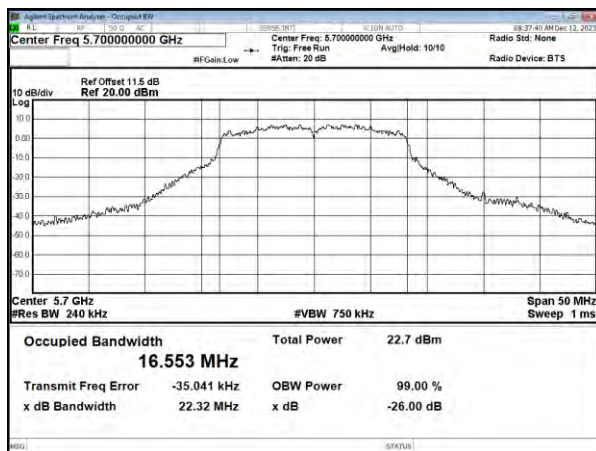
CH116



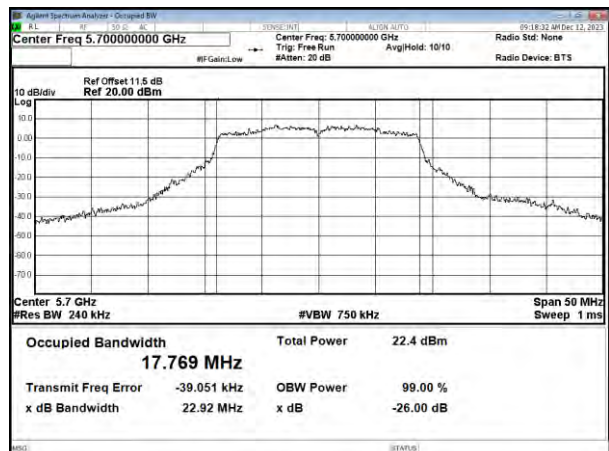
CH116



CH140



CH140

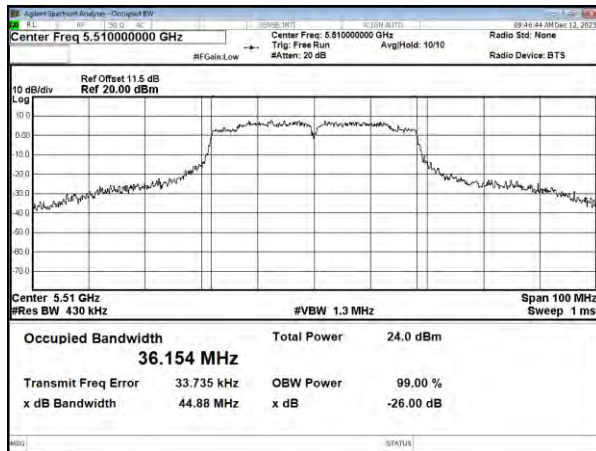




26dB Bandwidth & 99% Occupied Bandwidth, UNII-2C

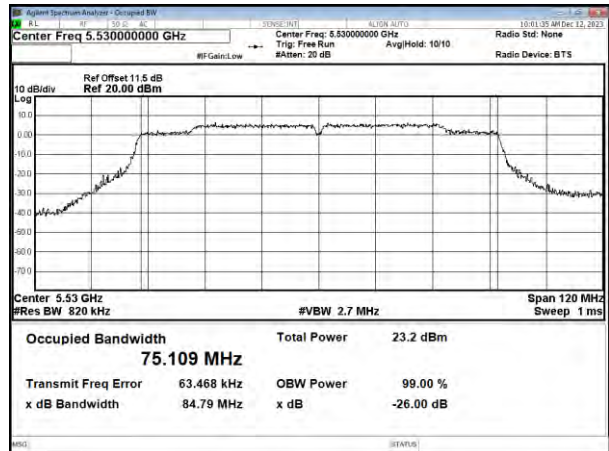
Modulation Standard: 802.11ac VHT40

CH102

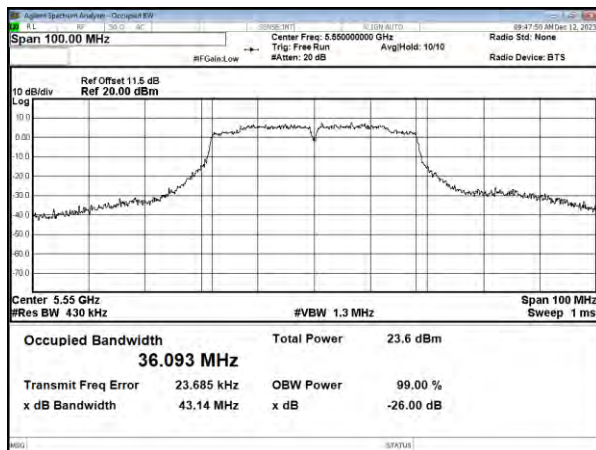


Modulation Standard: 802.11ac VHT80

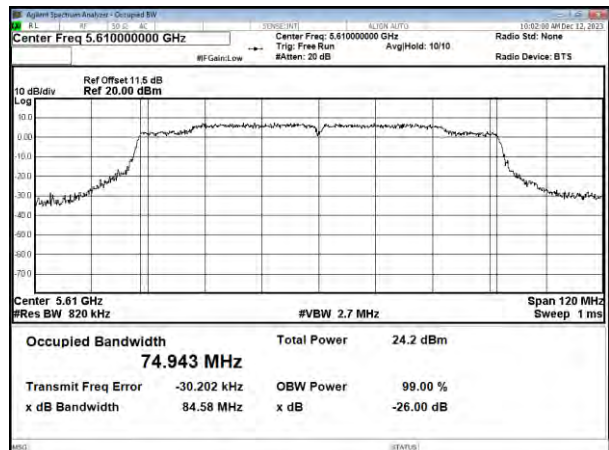
CH106



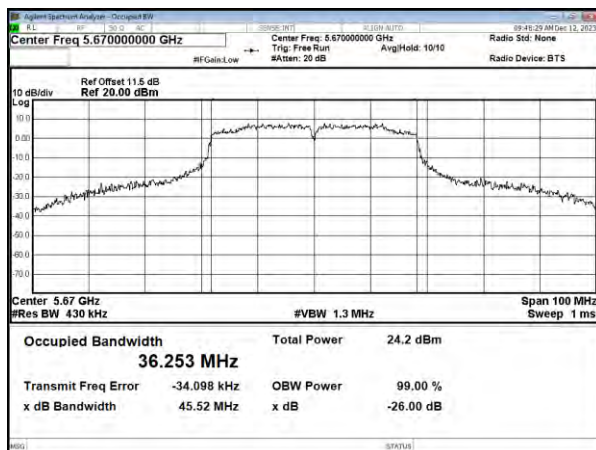
CH110



CH122



CH134

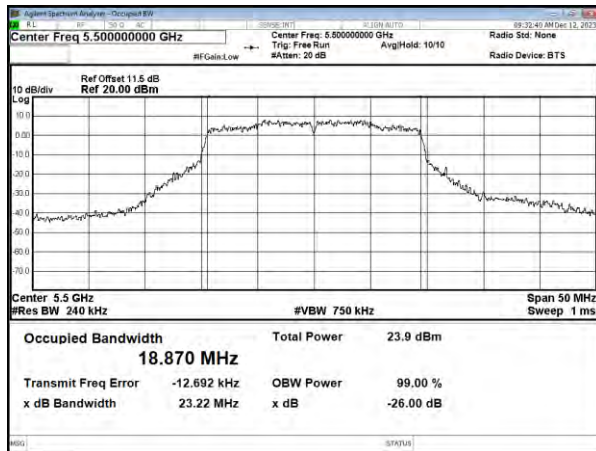




26dB Bandwidth & 99% Occupied Bandwidth, UNII-2C

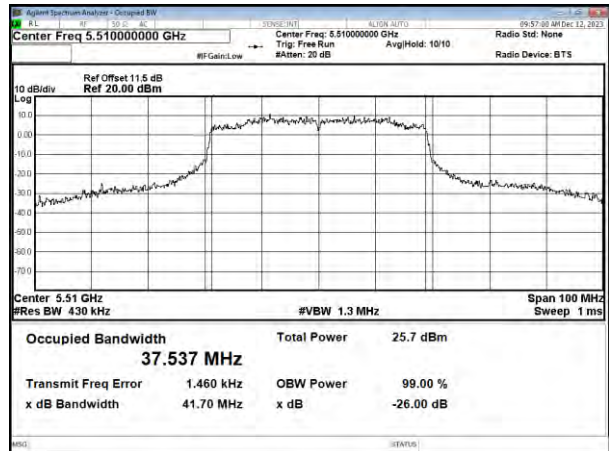
Modulation Standard: 802.11 ax HE20

CH100

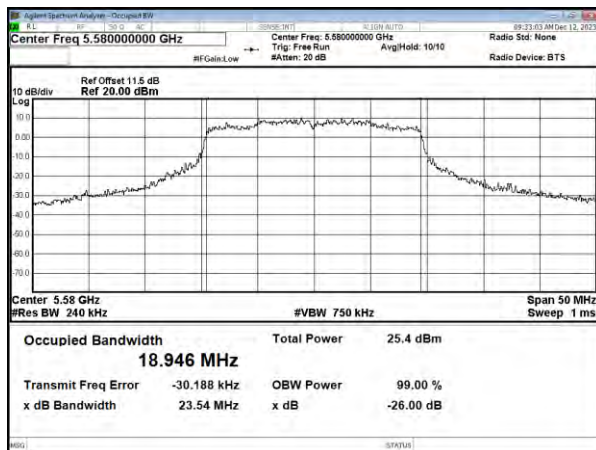


Modulation Standard: 802.11 ax HE40

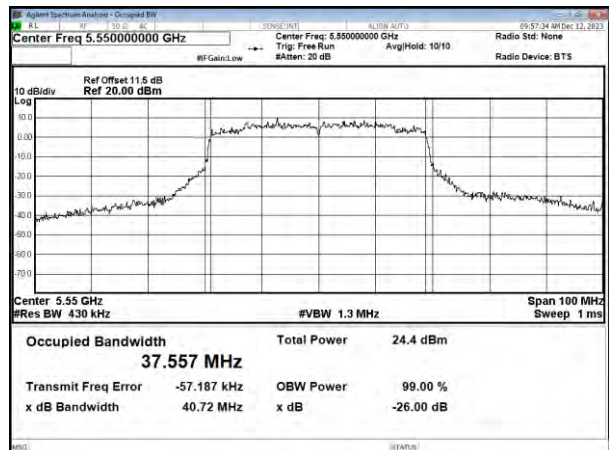
CH102



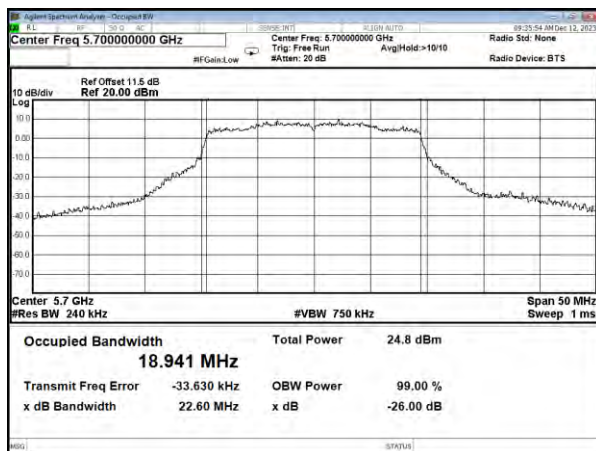
CH116



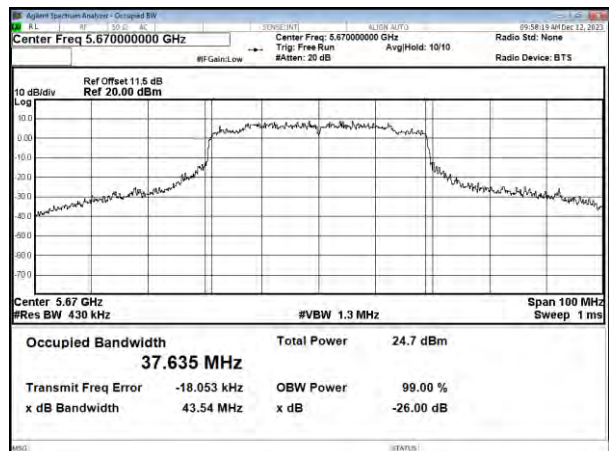
CH110



CH140



CH134

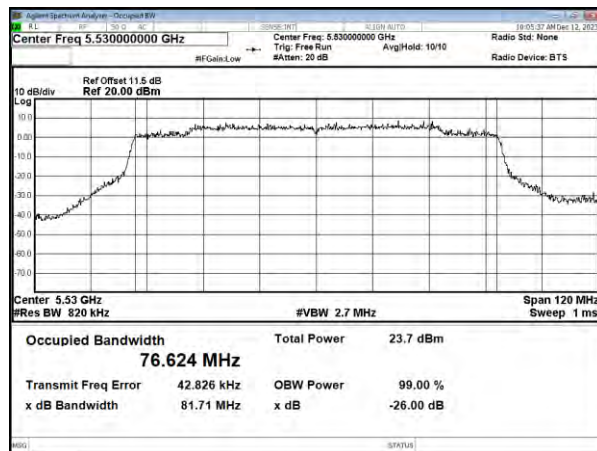




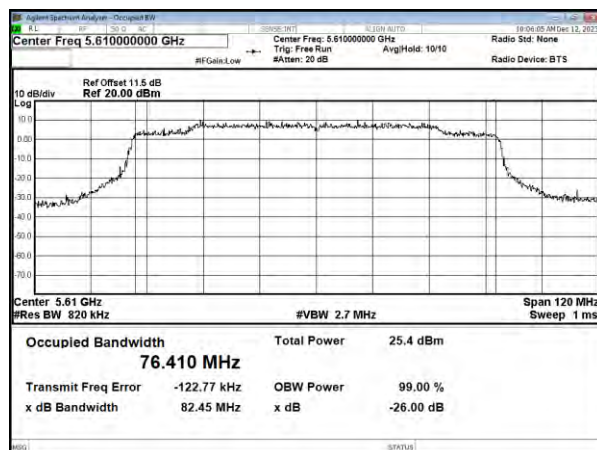
26dB Bandwidth & 99% Occupied Bandwidth, UNII-2C

Modulation Standard: 802.11 ax HE80

CH106



CH122

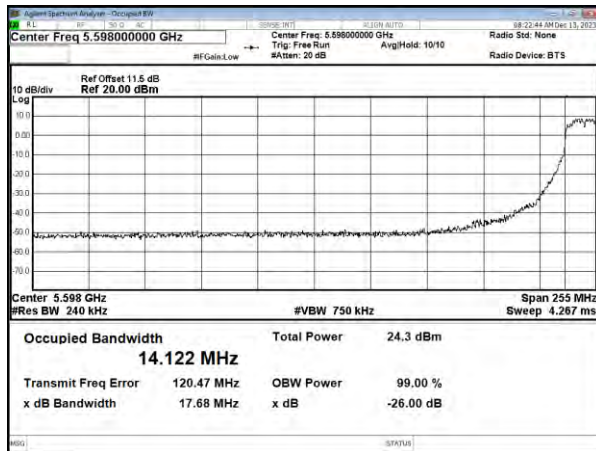




26dB Bandwidth &99% Occupied Bandwidth, Within 5470-5725MHz band

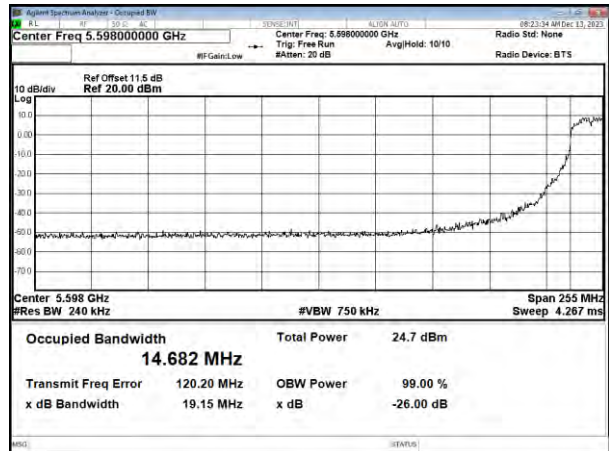
Modulation Standard: 802.11a

CH144



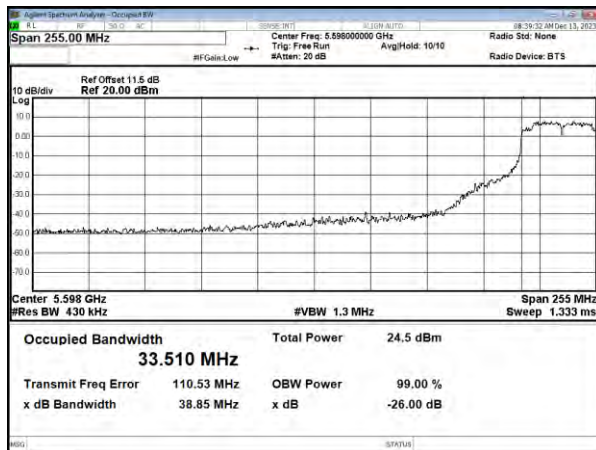
Modulation Standard: 802.11ac VHT20

CH144



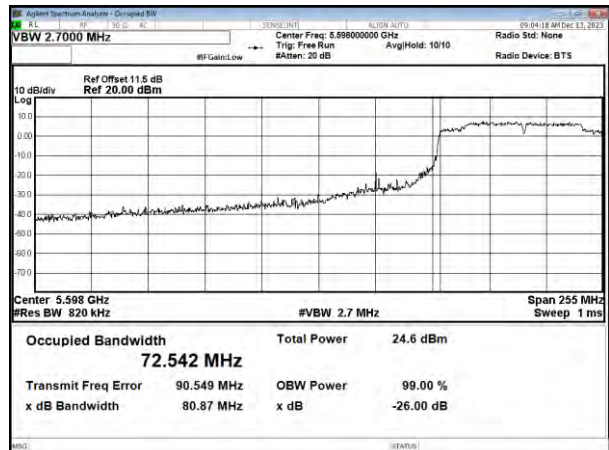
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH142



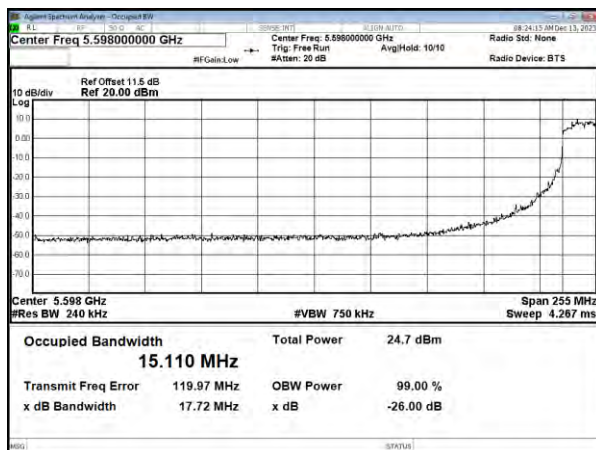
Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH138



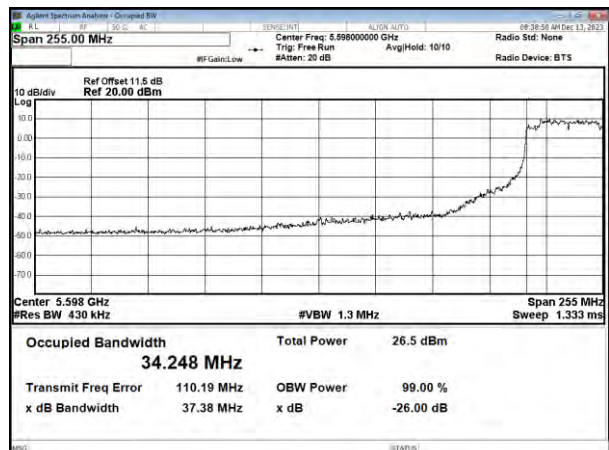
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH144



Modulation Standard: 802.11 ax HE40 (14.6Mbps)

CH142

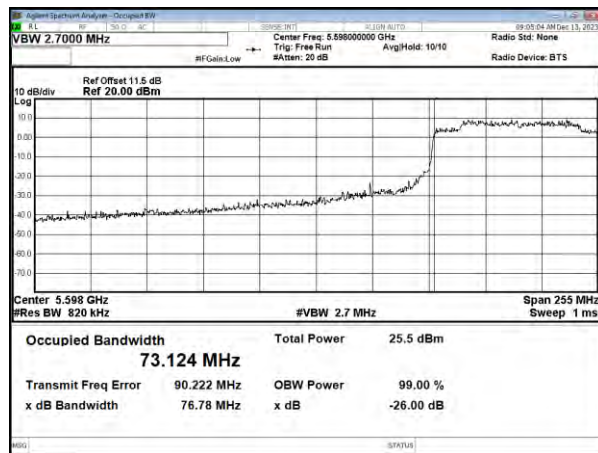




26dB Bandwidth &99% Occupied Bandwidth, Within 5470-5725MHz band

Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH138





10. Average Power

10.1. Test Limit

Output Power:

Frequency Band		Limit
☒	5.15~5.25GHz	
	Operating Mode	
☐	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed 125 mW (21 dBm).
☐	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☐	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
☒	client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



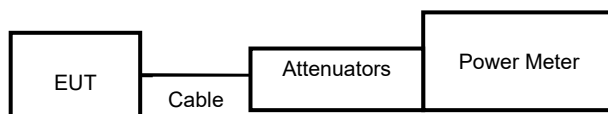
Frequency Band		Limit
☒	5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☒	5.470-5.725 GHz	
☒	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

10.2. Test Procedure

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

10.3. Test Setup Layout





10.4. Test Result and Data

SISO-ANTA

In the 5.2G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	36	5180	15.92	39.084	24.00
11a	6 Mbps	44	5220	16.10	40.738	24.00
11a	6 Mbps	48	5240	16.05	40.272	24.00
11n HT20	MCS 0	36	5180	15.78	37.844	24.00
11n HT20	MCS 0	44	5220	16.01	39.902	24.00
11n HT20	MCS 0	48	5240	15.92	39.084	24.00
11n HT40	MCS 0	38	5190	16.02	39.994	24.00
11n HT40	MCS 0	46	5230	15.97	39.537	24.00
11ac VHT20	NSS1-MCS0	36	5180	15.94	39.264	24.00
11ac VHT20	NSS1-MCS0	44	5220	16.12	40.926	24.00
11ac VHT20	NSS1-MCS0	48	5240	15.98	39.628	24.00
11ac VHT40	NSS1-MCS0	38	5190	16.08	40.551	24.00
11ac VHT40	NSS1-MCS0	46	5230	16.02	39.994	24.00
11ac VHT80	NSS1-MCS0	42	5210	15.75	37.584	24.00
802.11ax HE20	NSS1-MCS0	36	5180	16.05	40.272	24.00
802.11ax HE20	NSS1-MCS0	40	5200	16.21	41.783	24.00
802.11ax HE20	NSS1-MCS0	48	5240	16.19	41.591	24.00
802.11ax HE40	NSS1-MCS0	38	5190	14.89	30.832	24.00
802.11ax HE40	NSS1-MCS0	46	5230	15.02	31.769	24.00
802.11ax HE80	NSS1-MCS0	42	5210	14.81	30.269	24.00

In the 5.3G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	52	5260	17.92	61.944	24.00
11a	6 Mbps	60	5300	17.04	50.582	24.00
11a	6 Mbps	64	5320	17.06	50.816	24.00
11n HT20	MCS 0	52	5260	18.01	63.241	24.00
11n HT20	MCS 0	60	5300	16.67	46.452	24.00
11n HT20	MCS 0	64	5320	16.62	45.920	24.00
11n HT40	MCS 0	54	5270	18.63	72.946	24.00
11n HT40	MCS 0	62	5310	18.27	67.143	24.00
11ac VHT20	NSS1-MCS0	52	5260	18.12	64.863	24.00
11ac VHT20	NSS1-MCS0	60	5300	17.00	50.119	24.00
11ac VHT20	NSS1-MCS0	64	5320	16.88	48.753	24.00
11ac VHT40	NSS1-MCS0	54	5270	18.74	74.817	24.00
11ac VHT40	NSS1-MCS0	62	5310	18.68	73.790	24.00
11ac VHT80	NSS1-MCS0	58	5290	17.52	56.494	24.00
802.11ax HE20	NSS1-MCS0	52	5260	17.13	51.642	24.00
802.11ax HE20	NSS1-MCS0	60	5300	16.32	42.855	24.00
802.11ax HE20	NSS1-MCS0	64	5320	16.38	43.451	24.00
802.11ax HE40	NSS1-MCS0	54	5270	14.75	29.854	24.00
802.11ax HE40	NSS1-MCS0	62	5310	15.26	33.574	24.00
802.11ax HE80	NSS1-MCS0	58	5290	16.56	45.290	24.00



In the 5.5G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	100	5500	16.54	45.082	23.82
11a	6 Mbps	116	5580	17.97	62.661	23.82
11a	6 Mbps	140	5700	17.72	59.156	23.82
11n HT20	MCS 0	100	5500	16.20	41.687	23.82
11n HT20	MCS 0	116	5580	17.92	61.944	23.82
11n HT20	MCS 0	140	5700	17.79	60.117	23.82
11n HT40	MCS 0	102	5510	17.42	55.208	23.82
11n HT40	MCS 0	118	5590	16.69	46.666	23.82
11n HT40	MCS 0	134	5670	17.46	55.719	23.82
11ac VHT20	NSS1-MCS0	100	5500	16.47	44.361	23.82
11ac VHT20	NSS1-MCS0	118	5590	18.11	64.714	23.82
11ac VHT20	NSS1-MCS0	140	5700	17.96	62.517	23.82
11ac VHT40	NSS1-MCS0	102	5510	17.60	57.544	23.82
11ac VHT40	NSS1-MCS0	118	5590	16.87	48.641	23.82
11ac VHT40	NSS1-MCS0	134	5670	17.56	57.016	23.82
11ac VHT80	NSS1-MCS0	106	5530	15.70	37.154	23.82
11ac VHT80	NSS1-MCS0	122	5610	17.11	51.404	23.82
11ax HE20	NSS1-MCS0	100	5500	15.76	37.670	23.82
11ax HE20	NSS1-MCS0	116	5580	17.41	55.081	23.82
11ax HE20	NSS1-MCS0	140	5700	16.12	40.926	23.82
11ax HE40	NSS1-MCS0	102	5510	16.25	42.170	23.82
11ax HE40	NSS1-MCS0	110	5550	15.62	36.475	23.82
11ax HE40	NSS1-MCS0	134	5670	16.20	41.687	23.82
11ax HE80	NSS1-MCS0	106	5530	14.82	30.339	23.82
11ax HE80	NSS1-MCS0	122	5610	16.19	41.591	23.82

In the 5.8G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	149	5745	17.20	52.481	30.00
11a	6 Mbps	157	5785	17.22	52.723	30.00
11a	6 Mbps	165	5825	17.02	50.350	30.00
11n HT20	MCS 0	149	5745	17.02	50.350	30.00
11n HT20	MCS 0	157	5785	17.44	55.463	30.00
11n HT20	MCS 0	165	5825	16.48	44.463	30.00
11n HT40	MCS 0	151	5755	17.72	59.156	30.00
11n HT40	MCS 0	159	5795	18.35	68.391	30.00
11ac VHT20	NSS1-MCS0	149	5745	17.17	52.119	30.00
11ac VHT20	NSS1-MCS0	157	5785	17.50	56.234	30.00
11ac VHT20	NSS1-MCS0	165	5825	17.01	50.234	30.00
11ac VHT40	NSS1-MCS0	151	5755	17.80	60.256	30.00
11ac VHT40	NSS1-MCS0	159	5795	18.52	71.121	30.00
11ac VHT80	NSS1-MCS0	155	5775	15.38	34.514	30.00
11ax HE20	NSS1-MCS0	149	5745	16.35	43.152	30.00
11ax HE20	NSS1-MCS0	157	5785	16.52	44.875	30.00
11ax HE20	NSS1-MCS0	165	5825	16.11	40.832	30.00
11ax HE40	NSS1-MCS0	151	5755	16.38	43.451	30.00
11ax HE40	NSS1-MCS0	159	5795	17.07	50.933	30.00
11ax HE80	NSS1-MCS0	155	5775	16.03	40.087	30.00

**Straddle Channels (Within 5470-5725MHz band)**

Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
11a	6M	5720	16.55	16.55	45.186	16.55	23.47
11n HT20	MCS0	5720	15.82	15.82	38.194	15.82	23.82
11n HT40	MCS0	5710	16.25	16.25	42.170	16.25	23.82
11ac VHT20	NSS1-MCS0	5720	15.96	15.96	39.446	15.96	23.82
11ac VHT40	NSS1-MCS0	5710	17.00	17.00	50.119	17.00	23.82
11ac VHT80	NSS1-MCS0	5690	16.74	16.74	47.206	16.74	23.82
11ax HE20	NSS1-MCS0	5720	15.71	15.71	37.239	15.71	23.48
11ax HE40	NSS1-MCS0	5710	16.52	16.52	44.875	16.52	23.82
11ax HE80	NSS1-MCS0	5690	16.38	16.38	43.451	16.38	23.82

Straddle Channels (Extends across 5725MHz band)

Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
11a	6M	5720	7.84	7.84	6.081	7.84	30.00
11n HT20	MCS0	5720	8.14	8.14	6.516	8.14	30.00
11n HT40	MCS0	5710	3.68	3.68	2.333	3.68	30.00
11ac VHT20	NSS1-MCS0	5720	8.29	8.29	6.745	8.29	30.00
11ac VHT40	NSS1-MCS0	5710	3.96	3.96	2.489	3.96	30.00
11ac VHT80	NSS1-MCS0	5690	-0.39	-0.39	0.914	-0.39	30.00
11ax HE20	NSS1-MCS0	5720	8.57	8.57	7.194	8.57	30.00
11ax HE40	NSS1-MCS0	5710	4.31	4.31	2.698	4.31	30.00
11ax HE80	NSS1-MCS0	5690	0.09	0.09	1.021	0.09	30.00



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In the 5.2G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	14.5	36	5180	15.56	35.975	24.00
11a	6 Mbps	19	44	5220	15.72	37.325	24.00
11a	6 Mbps	18.5	48	5240	15.69	37.068	24.00
11n HT20	MCS 0	14.5	36	5180	15.33	34.119	24.00
11n HT20	MCS 0	18.75	44	5220	15.56	35.975	24.00
11n HT20	MCS 0	18.5	48	5240	15.53	35.727	24.00
11n HT40	MCS 0	16.75	38	5190	14.73	29.717	24.00
11n HT40	MCS 0	18.5	46	5230	15.21	33.189	24.00
11ac VHT20	NSS1-MCS0	14.5	36	5180	15.46	35.156	24.00
11ac VHT20	NSS1-MCS0	18.75	44	5220	15.67	36.898	24.00
11ac VHT20	NSS1-MCS0	18.5	48	5240	15.58	36.141	24.00
11ac VHT40	NSS1-MCS0	16.75	38	5190	14.75	29.854	24.00
11ac VHT40	NSS1-MCS0	18.5	46	5230	15.37	34.435	24.00
11ac VHT80	NSS1-MCS0	16.25	42	5210	14.96	31.333	24.00
802.11ax HE20	NSS1-MCS0	14.5	36	5180	15.64	36.644	24.00
802.11ax HE20	NSS1-MCS0	18.75	40	5200	15.71	37.239	24.00
802.11ax HE20	NSS1-MCS0	18.5	48	5240	15.74	37.497	24.00
802.11ax HE40	NSS1-MCS0	16.75	38	5190	15.45	35.075	24.00
802.11ax HE40	NSS1-MCS0	18.5	46	5230	15.51	35.563	24.00
802.11ax HE80	NSS1-MCS0	16.25	42	5210	15.59	36.224	24.00

In the 5.3G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	19	52	5260	17.98	62.806	24.00
11a	6 Mbps	19	60	5300	17.57	57.148	24.00
11a	6 Mbps	19	64	5320	17.59	57.412	24.00
11n HT20	MCS 0	19	52	5260	17.82	60.534	24.00
11n HT20	MCS 0	19	60	5300	17.32	53.951	24.00
11n HT20	MCS 0	19	64	5320	17.15	51.880	24.00
11n HT40	MCS 0	20	54	5270	14.53	28.379	24.00
11n HT40	MCS 0	20	62	5310	15.05	31.989	24.00
11ac VHT20	NSS1-MCS0	19	52	5260	17.92	61.944	24.00
11ac VHT20	NSS1-MCS0	19	60	5300	17.43	55.335	24.00
11ac VHT20	NSS1-MCS0	19	64	5320	17.62	57.810	24.00
11ac VHT40	NSS1-MCS0	20	54	5270	14.61	28.907	24.00
11ac VHT40	NSS1-MCS0	20	62	5310	15.13	32.584	24.00
11ac VHT80	NSS1-MCS0	20	58	5290	16.21	41.783	24.00
802.11ax HE20	NSS1-MCS0	19	52	5260	17.68	58.614	24.00
802.11ax HE20	NSS1-MCS0	19	60	5300	17.18	52.240	24.00
802.11ax HE20	NSS1-MCS0	19	64	5320	17.02	50.350	24.00
802.11ax HE40	NSS1-MCS0	20	54	5270	15.40	34.674	24.00
802.11ax HE40	NSS1-MCS0	20	62	5310	15.82	38.194	24.00
802.11ax HE80	NSS1-MCS0	20	58	5290	16.92	49.204	24.00



In the 5.5G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	17.25	100	5500	16.41	43.752	23.76
11a	6 Mbps	18.5	116	5580	17.65	58.210	23.73
11a	6 Mbps	16.5	140	5700	16.31	42.756	23.7
11n HT20	MCS 0	17.25	100	5500	16.20	41.687	23.82
11n HT20	MCS 0	18.5	116	5580	17.45	55.590	23.82
11n HT20	MCS 0	16.5	140	5700	16.08	40.551	23.82
11n HT40	MCS 0	18	102	5510	16.35	43.152	23.82
11n HT40	MCS 0	17.5	118	5590	15.54	35.810	23.82
11n HT40	MCS 0	17.5	134	5670	16.56	45.290	23.82
11ac VHT20	NSS1-MCS0	17.25	100	5500	16.31	42.756	23.82
11ac VHT20	NSS1-MCS0	18.5	118	5590	17.73	59.293	23.82
11ac VHT20	NSS1-MCS0	16.5	140	5700	16.17	41.400	23.82
11ac VHT40	NSS1-MCS0	18	102	5510	16.94	49.431	23.82
11ac VHT40	NSS1-MCS0	17.5	118	5590	15.63	36.559	23.82
11ac VHT40	NSS1-MCS0	17.5	134	5670	16.76	47.424	23.82
11ac VHT80	NSS1-MCS0	16.25	106	5530	14.66	29.242	23.82
11ac VHT80	NSS1-MCS0	17	122	5610	15.87	38.637	23.82
11ax HE20	NSS1-MCS0	17.25	100	5500	16.13	41.020	23.82
11ax HE20	NSS1-MCS0	18.5	116	5580	17.52	56.494	23.82
11ax HE20	NSS1-MCS0	16.5	140	5700	16.05	40.272	23.82
11ax HE40	NSS1-MCS0	18	102	5510	17.66	58.345	23.82
11ax HE40	NSS1-MCS0	17.5	110	5550	16.44	44.055	23.82
11ax HE40	NSS1-MCS0	17.5	134	5670	17.51	56.364	23.82
11ax HE80	NSS1-MCS0	16.25	106	5530	15.39	34.594	23.82
11ax HE80	NSS1-MCS0	17	122	5610	16.59	45.604	23.82

In the 5.8G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	18	149	5745	16.71	46.881	30.00
11a	6 Mbps	17.75	157	5785	17.32	53.951	30.00
11a	6 Mbps	17.25	165	5825	17.50	56.234	30.00
11n HT20	MCS 0	18	149	5745	16.57	45.394	30.00
11n HT20	MCS 0	17.5	157	5785	16.83	48.195	30.00
11n HT20	MCS 0	17.25	165	5825	18.10	64.565	30.00
11n HT40	MCS 0	18	151	5755	16.09	40.644	30.00
11n HT40	MCS 0	17.75	159	5795	17.11	51.404	30.00
11ac VHT20	NSS1-MCS0	18	149	5745	16.67	46.452	30.00
11ac VHT20	NSS1-MCS0	17.5	157	5785	16.91	49.091	30.00
11ac VHT20	NSS1-MCS0	17.25	165	5825	18.12	64.863	30.00
11ac VHT40	NSS1-MCS0	17.25	151	5755	16.22	41.879	30.00
11ac VHT40	NSS1-MCS0	18	159	5795	17.16	52.000	30.00
11ac VHT80	NSS1-MCS0	16.5	155	5775	15.06	32.063	30.00
11ax HE20	NSS1-MCS0	18	149	5745	16.40	43.652	30.00
11ax HE20	NSS1-MCS0	17.75	157	5785	17.08	51.051	30.00
11ax HE20	NSS1-MCS0	17.5	165	5825	17.60	57.544	30.00
11ax HE40	NSS1-MCS0	18	151	5755	17.04	50.582	30.00
11ax HE40	NSS1-MCS0	17.75	159	5795	17.96	62.517	30.00
11ax HE80	NSS1-MCS0	16.5	155	5775	15.79	37.931	30.00

**Straddle Channels (Within 5470-5725MHz band)**

Modulation Type	Data Rate	Setting	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
11a	6M	19	5720	16.60	16.60	45.709	16.60	23.29
11n HT20	MCS0	19	5720	16.12	16.12	40.926	16.12	23.64
11n HT40	MCS0	20	5710	17.17	17.17	52.119	17.17	23.82
11ac VHT20	NSS1-MCS0	19	5720	16.43	16.43	43.954	16.43	23.82
11ac VHT40	NSS1-MCS0	20	5710	17.18	17.18	52.240	17.18	23.82
11ac VHT80	NSS1-MCS0	20	5690	17.07	17.07	50.933	17.07	23.82
11ax HE20	NSS1-MCS0	19	5720	16.04	16.04	40.179	16.04	23.30
11ax HE40	NSS1-MCS0	20	5710	16.76	16.76	47.424	16.76	23.82
11ax HE80	NSS1-MCS0	20	5690	16.83	16.83	48.195	16.83	23.82

Straddle Channels (Extends across 5725MHz band)

Modulation Type	Data Rate	Setting	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
11a	6M	19	5720	7.96	7.96	6.252	7.96	30.00
11n HT20	MCS0	19	5720	8.31	8.31	6.776	8.31	30.00
11n HT40	MCS0	20	5710	4.08	4.08	2.559	4.08	30.00
11ac VHT20	NSS1-MCS0	19	5720	8.41	8.41	6.934	8.41	30.00
11ac VHT40	NSS1-MCS0	20	5710	4.22	4.22	2.642	4.22	30.00
11ac VHT80	NSS1-MCS0	20	5690	-0.03	-0.03	0.993	-0.03	30.00
11ax HE20	NSS1-MCS0	19	5720	8.61	8.61	7.261	8.61	30.00
11ax HE40	NSS1-MCS0	20	5710	4.58	4.58	2.871	4.58	30.00
11ax HE80	NSS1-MCS0	20	5690	0.61	0.61	1.151	0.61	30.00



11. Maximum Power Spectral Density

11.1. Test Limit

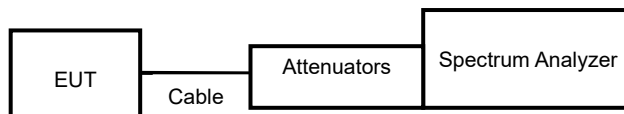
PSD:

Frequency Band		Limit
☒	5.15~5.25GHz	
	Operating Mode	
☐	Outdoor access point	17 dBm/MHz
☐	Indoor access point	17 dBm/MHz
☐	Fixed point-to-point access points	17 dBm/MHz
☒	client devices	11 dBm/MHz
☒	5.250~5.350 GHz	11 dBm/MHz
☒	5.470~5.725 GHz	11 dBm/MHz
☒	5.725~5.85 GHz	30 dBm/500kHz

11.2. Test Procedure

Reference to KDB789033 v02r01 General UNII Test Procedures New Rules.

11.3. Test Setup Layout





11.4. Test Result and Data

SISO-ANT A

In the 5.2G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	36	5180	4.91	0.00	4.91	11.00
11a	44	5220	4.73	0.00	4.73	11.00
11a	48	5240	4.87	0.00	4.87	11.00
11ac VHT20	36	5180	4.55	0.00	4.55	11.00
11ac VHT20	44	5220	4.47	0.00	4.47	11.00
11ac VHT20	48	5240	4.78	0.00	4.78	11.00
11ac VHT40	38	5190	2.07	0.00	2.07	11.00
11ac VHT40	46	5230	2.08	0.00	2.08	11.00
11ac VHT20	42	5210	-1.18	0.00	-1.18	11.00
11ax HE20	36	5180	4.45	0.00	4.45	11.00
11ax HE20	44	5220	4.32	0.00	4.32	11.00
11ax HE20	48	5240	4.84	0.00	4.84	11.00
11ax HE40	38	5190	1.88	0.00	1.88	11.00
11ax HE40	46	5230	1.87	0.00	1.87	11.00
11axHE80	42	5210	-1.51	0.00	-1.51	11.00

In the 5.3G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	52	5260	7.43	0.00	7.43	11.00
11a	60	5300	6.68	0.00	6.68	11.00
11a	64	5320	6.58	0.00	6.58	11.00
11ac VHT20	52	5260	7.43	0.00	7.43	11.00
11ac VHT20	60	5300	6.51	0.00	6.51	11.00
11ac VHT20	64	5320	6.37	0.00	6.37	11.00
11ac VHT40	54	5270	1.83	0.00	1.83	11.00
11ac VHT40	62	5310	2.41	0.00	2.41	11.00
11ac VHT80	58	5290	0.47	0.00	0.47	11.00
11ax HE20	52	5260	7.31	0.00	7.31	11.00
11ax HE20	60	5300	5.94	0.00	5.94	11.00
11ax HE20	64	5320	5.91	0.00	5.91	11.00
11ax HE40	54	5270	1.49	0.00	1.49	11.00
11ax HE40	62	5310	2.11	0.00	2.11	11.00
11ax HE80	58	5290	0.18	0.00	0.18	11.00

**In the 5.5G Band**

Modulation Type	CH	Freq. (MHz)	Meas PPSP (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSP (dBm/MHz)	PPSP Limit (dBm/MHz)
11a	100	5500	6.06	0.00	6.06	10.82
11a	116	5580	7.70	0.00	7.70	10.82
11a	140	5700	6.22	0.00	6.22	10.82
11ac VHT20	100	5500	6.38	0.00	6.38	10.82
11ac VHT20	116	5580	7.50	0.00	7.50	10.82
11ac VHT20	140	5700	6.10	0.00	6.10	10.82
11ac VHT40	102	5510	3.69	0.00	3.69	10.82
11ac VHT40	110	5550	3.01	0.00	3.01	10.82
11ac VHT40	134	5670	3.69	0.00	3.69	10.82
11ac VHT80	106	5530	-1.37	0.00	-1.37	10.82
11acVHT80	122	5610	0.32	0.00	0.32	10.82
11ax HE20	110	5500	5.61	0.00	5.61	10.82
11ax HE20	116	5580	7.14	0.00	7.14	10.82
11ax HE20	140	5700	5.39	0.00	5.39	10.82
11ax HE40	102	5510	3.19	0.00	3.19	10.82
11ax HE40	110	5550	2.64	0.00	2.64	10.82
11ax HE40	134	5670	3.33	0.00	3.33	10.82
11ax HE80	106	5530	-1.54	0.00	-1.54	10.82
11ax HE80	122	5610	-0.90	0.00	-0.90	10.82

In the 5.8G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSP (dBm/MHz)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PPSP (dBm/MHz)	PPSP Limit (dBm/MHz)
11a	149	5745	5.97	0.00	-3.01	2.96	30.00
11a	157	5785	6.29	0.00	-3.01	3.28	30.00
11a	165	5825	5.69	0.00	-3.01	2.68	30.00
11ac VHT20	149	5745	5.50	0.00	-3.01	2.49	30.00
11ac VHT20	157	5785	5.76	0.00	-3.01	2.75	30.00
11ac VHT20	165	5825	5.75	0.00	-3.01	2.74	30.00
11ac VHT40	151	5755	3.05	0.00	-3.01	0.03	30.00
11ac VHT40	159	5795	3.45	0.00	-3.01	0.44	30.00
11ac VHT80	155	5775	-4.36	0.00	-3.01	-7.37	30.00
11ax HE20	149	5745	5.57	0.00	-3.01	2.55	30.00
11ax HE20	157	5785	5.70	0.00	-3.01	2.69	30.00
11ax HE20	165	5825	5.22	0.00	-3.01	2.21	30.00
11ax HE40	151	5755	2.87	0.00	-3.01	-0.14	30.00
11ax HE40	159	5795	3.03	0.00	-3.01	0.02	30.00
11ax HE80	155	5775	-4.82	0.00	-3.01	-7.83	30.00

**Straddle Channels (Within 5470-5725MHz band)**

Modulation Type	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	5720	5.70	0.00	5.70	10.82
11ac VHT20	5720	5.55	0.00	5.55	10.82
11ac VHT40	5710	2.37	0.00	2.37	10.82
11ac VHT80	5690	-0.45	0.00	-0.45	10.82
11ax HE20	5720	5.51	0.00	5.51	10.82
11ax HE40	5710	2.31	0.00	2.31	10.82
11ax HE80	5690	-0.92	0.00	-0.92	10.82

**SISO-ANT B****In the 5.2G Band**

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	36	5180	4.98	0.00	4.98	11.00
11a	44	5220	4.82	0.00	4.82	11.00
11a	48	5240	4.94	0.00	4.94	11.00
11ac VHT20	36	5180	4.76	0.00	4.76	11.00
11ac VHT20	44	5220	4.64	0.00	4.64	11.00
11ac VHT20	48	5240	4.96	0.00	4.96	11.00
11ac VHT40	38	5190	2.13	0.00	2.13	11.00
11ac VHT40	46	5230	2.47	0.00	2.47	11.00
11ac VHT20	42	5210	-0.94	0.00	-0.94	11.00
11ax HE20	36	5180	4.53	0.00	4.53	11.00
11ax HE20	44	5220	4.61	0.00	4.61	11.00
11ax HE20	48	5240	4.69	0.00	4.69	11.00
11ax HE40	38	5190	1.64	0.00	1.64	11.00
11ax HE40	46	5230	2.15	0.00	2.15	11.00
11axHE80	42	5210	-1.29	0.00	-1.29	11.00

In the 5.3G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	52	5260	7.63	0.00	7.63	11.00
11a	60	5300	7.07	0.00	7.07	11.00
11a	64	5320	6.50	0.00	6.50	11.00
11ac VHT20	52	5260	7.18	0.00	7.18	11.00
11ac VHT20	60	5300	6.95	0.00	6.95	11.00
11ac VHT20	64	5320	6.38	0.00	6.38	11.00
11ac VHT40	54	5270	1.82	0.00	1.82	11.00
11ac VHT40	62	5310	2.37	0.00	2.37	11.00
11ac VHT80	58	5290	0.30	0.00	0.30	11.00
11ax HE20	52	5260	6.67	0.00	6.67	11.00
11ax HE20	60	5300	6.55	0.00	6.55	11.00
11ax HE20	64	5320	5.85	0.00	5.85	11.00
11ax HE40	54	5270	1.65	0.00	1.65	11.00
11ax HE40	62	5310	1.87	0.00	1.87	11.00
11ax HE80	58	5290	0.19	0.00	0.19	11.00

**In the 5.5G Band**

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	100	5500	6.04	0.00	6.04	10.82
11a	116	5580	7.38	0.00	7.38	10.82
11a	140	5700	5.96	0.00	5.96	10.82
11ac VHT20	100	5500	5.82	0.00	5.82	10.82
11ac VHT20	116	5580	7.28	0.00	7.28	10.82
11ac VHT20	140	5700	5.93	0.00	5.93	10.82
11ac VHT40	102	5510	4.08	0.00	4.08	10.82
11ac VHT40	110	5550	3.04	0.00	3.04	10.82
11ac VHT40	134	5670	4.12	0.00	4.12	10.82
11ac VHT80	106	5530	-1.27	0.00	-1.27	10.82
11acVHT80	122	5610	-0.04	0.00	-0.04	10.82
11ax HE20	110	5500	5.49	0.00	5.49	10.82
11ax HE20	116	5580	6.95	0.00	6.95	10.82
11ax HE20	140	5700	5.54	0.00	5.54	10.82
11ax HE40	102	5510	3.80	0.00	3.80	10.82
11ax HE40	110	5550	2.56	0.00	2.56	10.82
11ax HE40	134	5670	3.40	0.00	3.40	10.82
11ax HE80	106	5530	-1.58	0.00	-1.58	10.82
11ax HE80	122	5610	-0.26	0.00	-0.26	10.82

**In the 5.8G Band**

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	149	5745	6.37	0.00	-3.01	3.36	30.00
11a	157	5785	6.63	0.00	-3.01	3.62	30.00
11a	165	5825	7.07	0.00	-3.01	4.06	30.00
11ac VHT20	149	5745	6.21	0.00	-3.01	3.20	30.00
11ac VHT20	157	5785	6.78	0.00	-3.01	3.77	30.00
11ac VHT20	165	5825	6.84	0.00	-3.01	3.83	30.00
11ac VHT40	151	5755	3.49	0.00	-3.01	0.48	30.00
11ac VHT40	159	5795	4.42	0.00	-3.01	1.40	30.00
11ac VHT80	155	5775	-4.62	0.00	-3.01	-7.63	30.00
11ax HE20	149	5745	6.00	0.00	-3.01	2.99	30.00
11ax HE20	157	5785	5.95	0.00	-3.01	2.94	30.00
11ax HE20	165	5825	6.51	0.00	-3.01	3.50	30.00
11ax HE40	151	5755	3.45	0.00	-3.01	0.44	30.00
11ax HE40	159	5795	3.78	0.00	-3.01	0.77	30.00
11ax HE80	155	5775	-4.82	0.00	-3.01	-7.83	30.00

Straddle Channels

Modulation Type	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	5720	6.18	0.00	6.18	11.00
11ac VHT20	5720	6.00	0.00	6.00	11.00
11ac VHT40	5710	2.73	0.00	2.73	11.00
11ac VHT80	5690	-0.82	0.00	-0.82	11.00
11ax HE20	5720	5.68	0.00	5.68	11.00
11ax HE40	5710	2.34	0.00	2.34	11.00
11ax HE80	5690	-0.84	0.00	-0.84	11.00

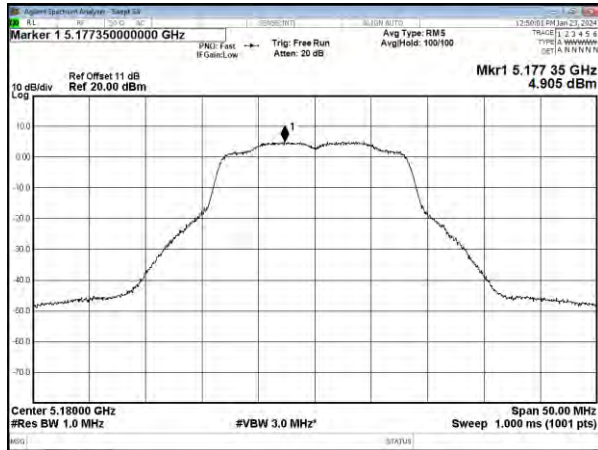


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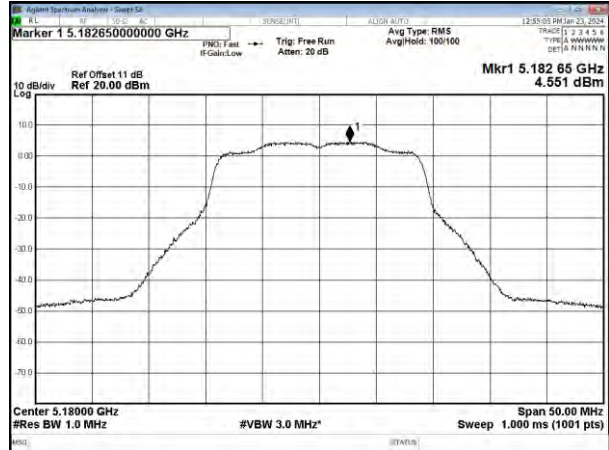
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CH36

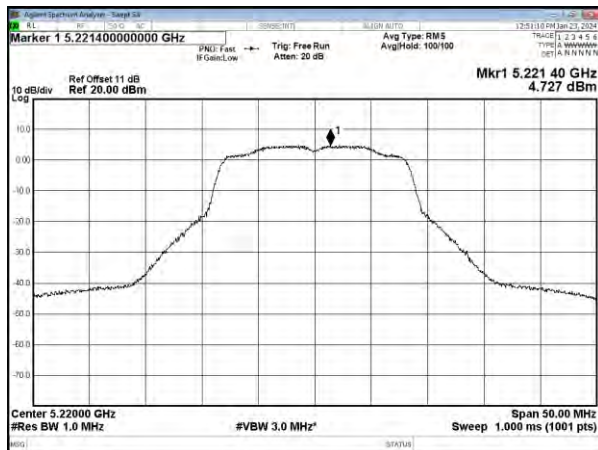


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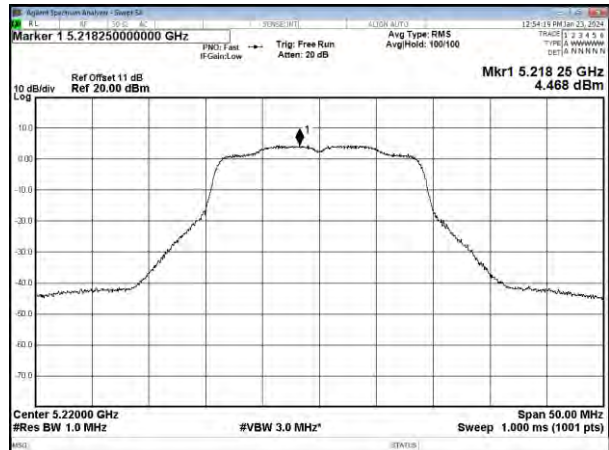
CH36



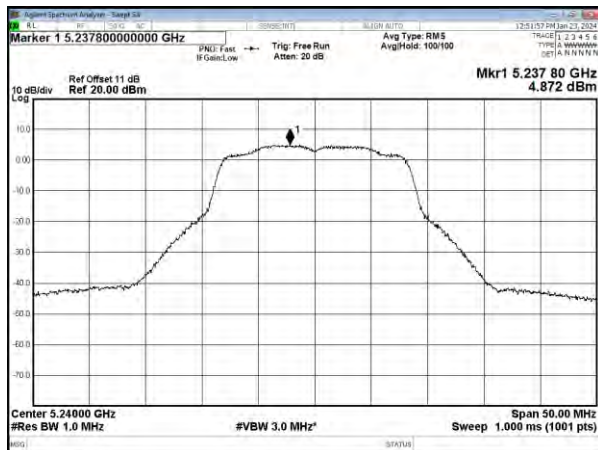
CH44



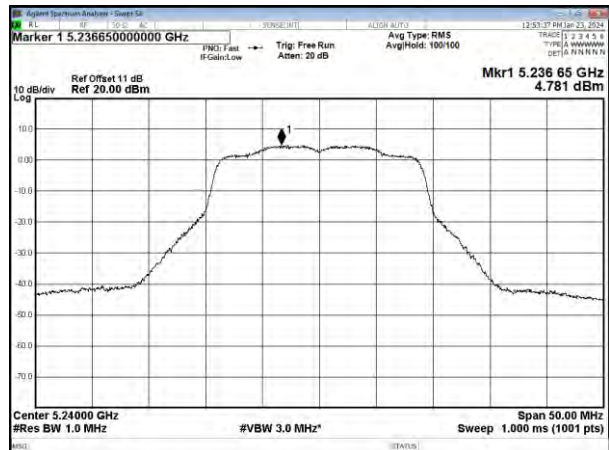
CH44



CH48



CH48

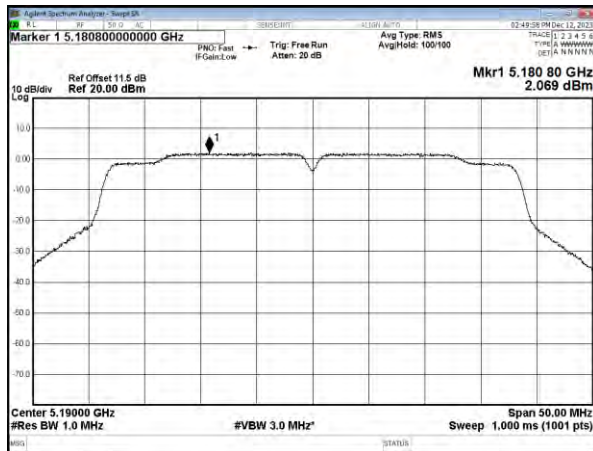




UNII-1

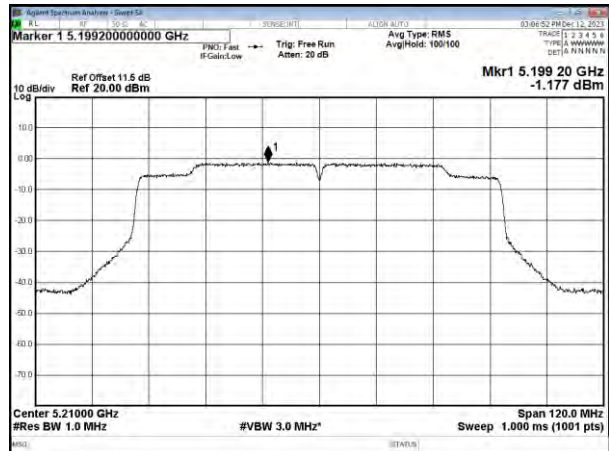
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH38

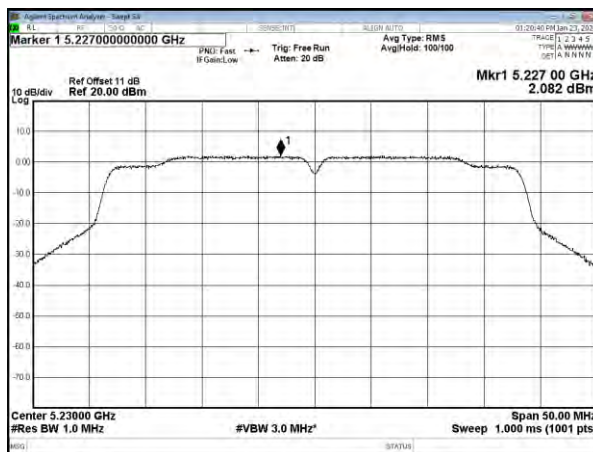


Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH42



CH46

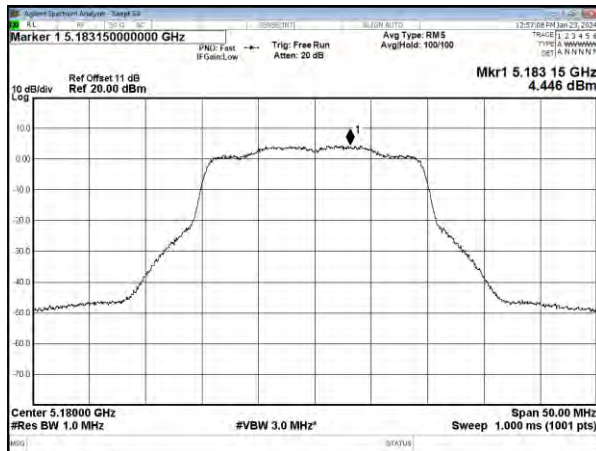




UNII-1

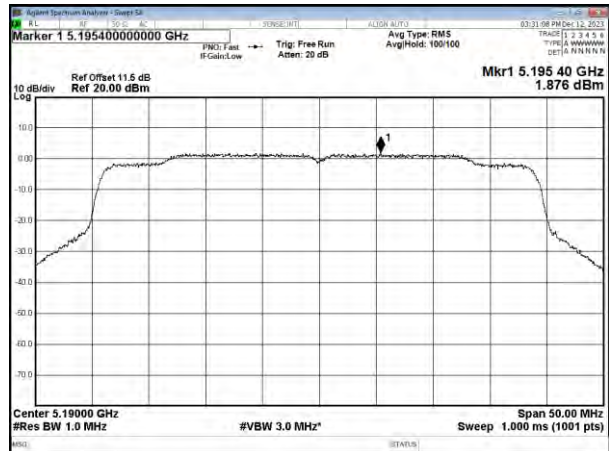
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH36

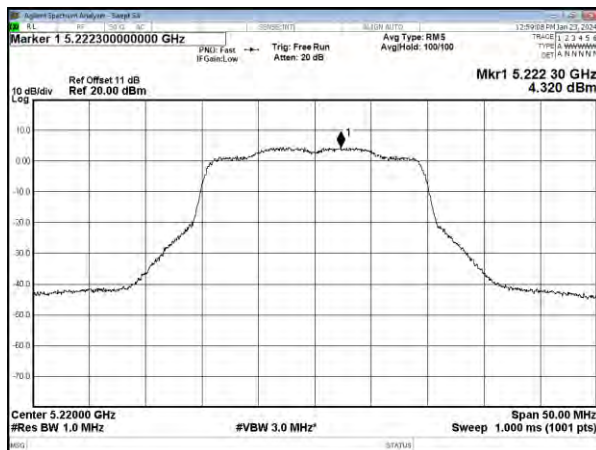


Modulation Standard: 802.11 ax HE40 (14.6Mbps)

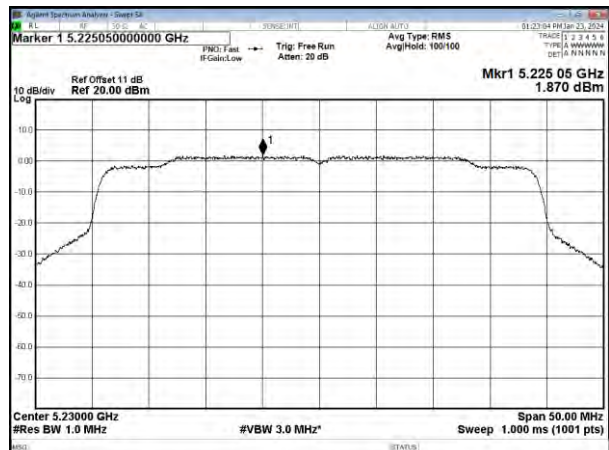
CH38



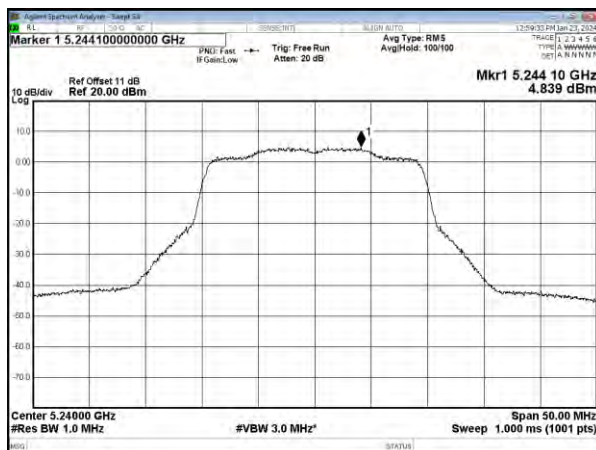
CH44



CH46

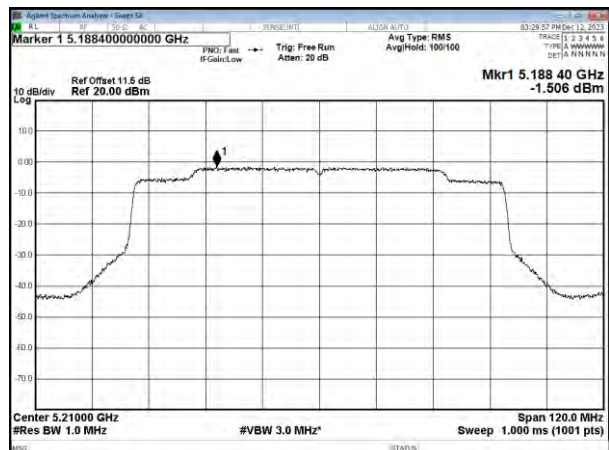


CH48



Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH42

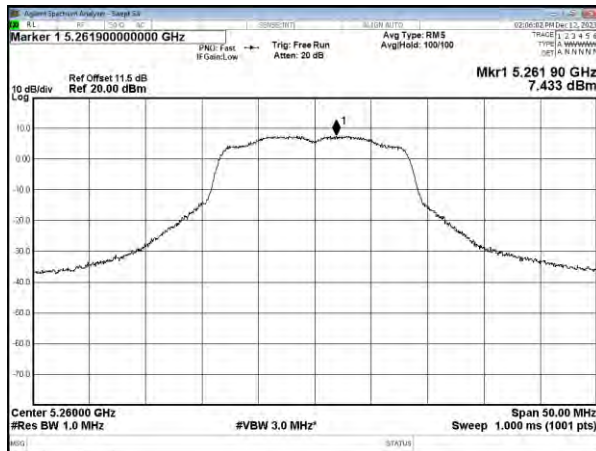




UNII-2A

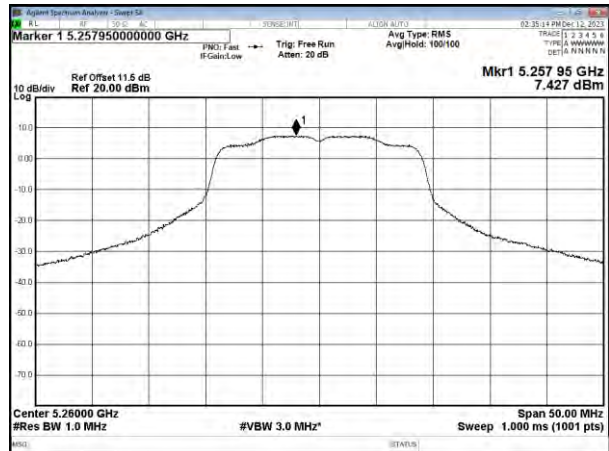
Modulation Standard: 802.11a (6Mbps)

CH52

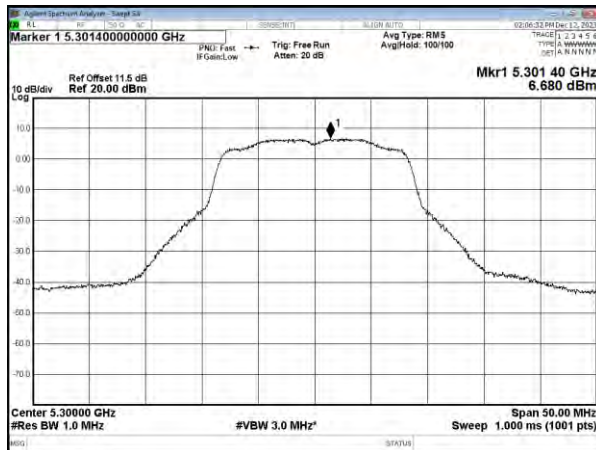


Modulation Standard: 802.11ac VHT20 (6.5Mbps)

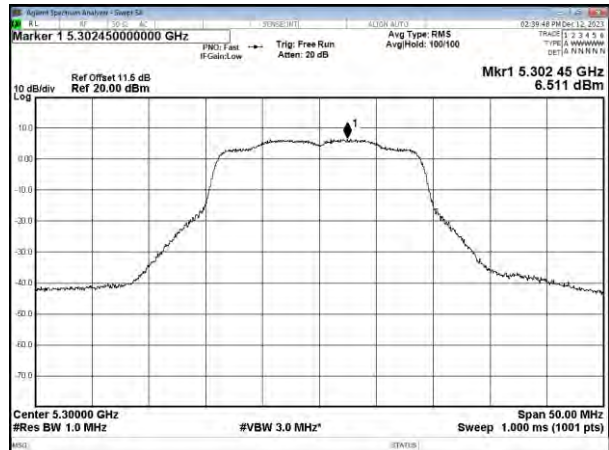
CH52



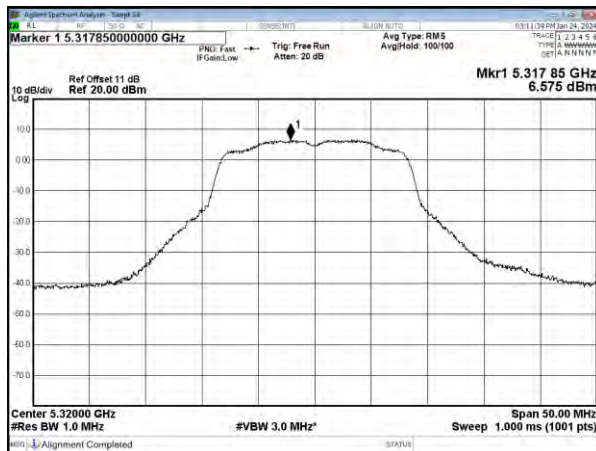
CH60



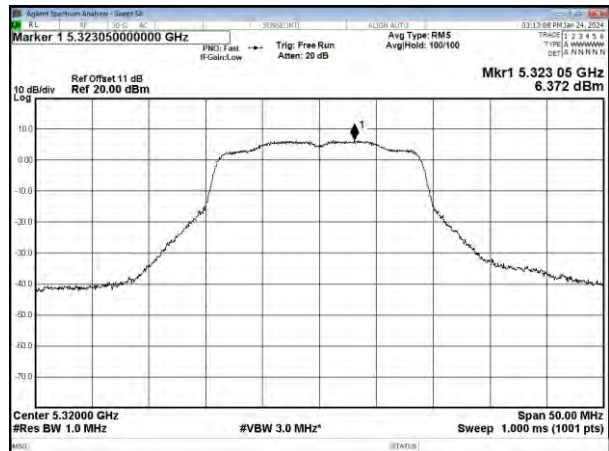
CH60



CH64



CH64

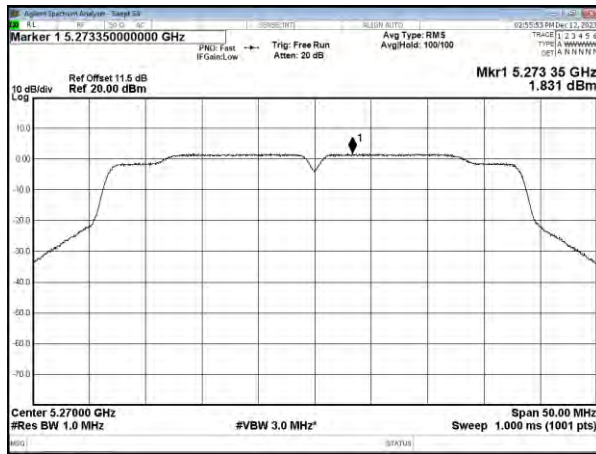




UNII-2A

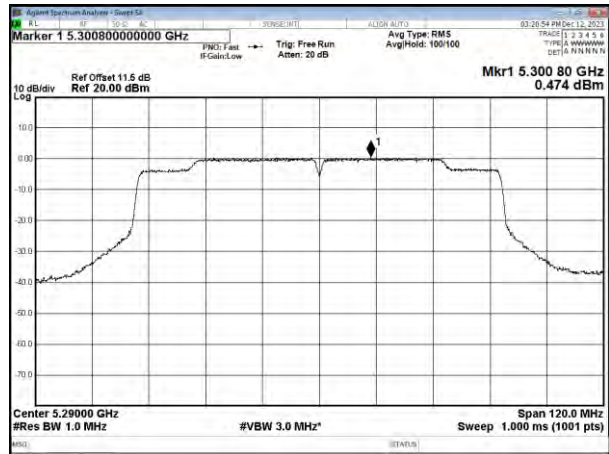
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH54

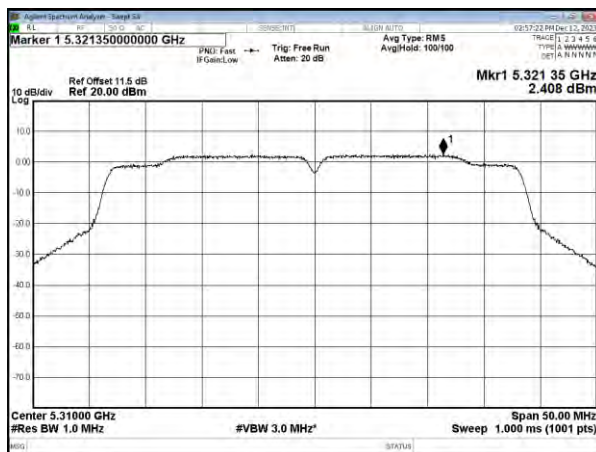


Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH58



CH62

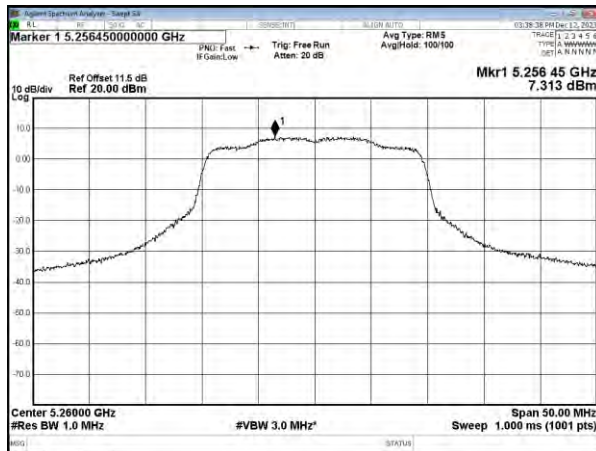




UNII-2A

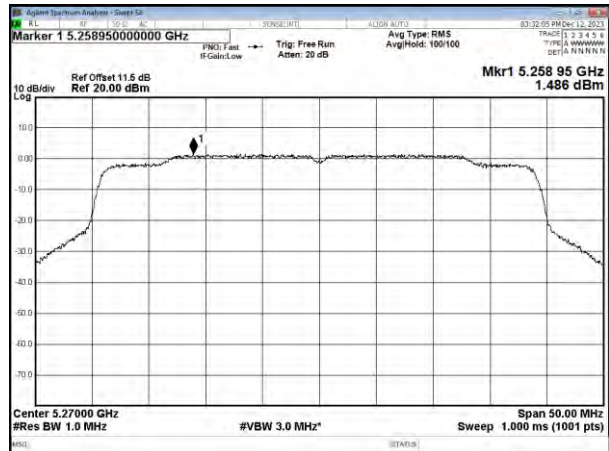
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH52

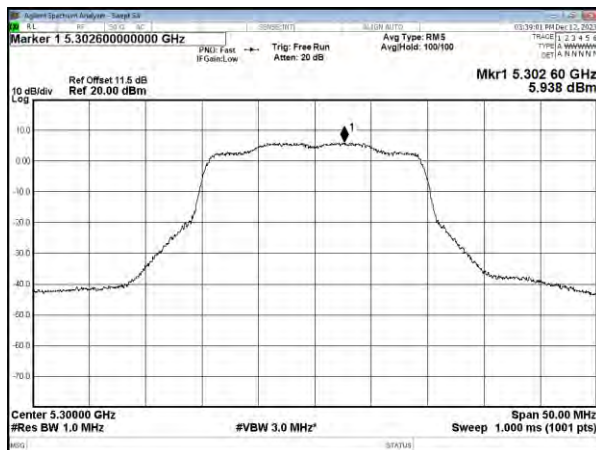


Modulation Standard: 802.11 ax HE40 (14.6Mbps)

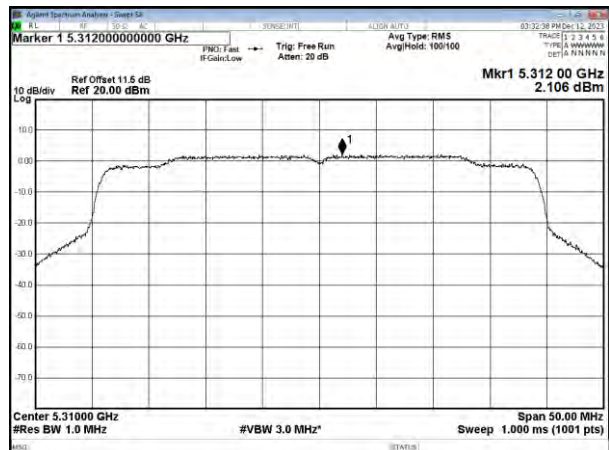
CH54



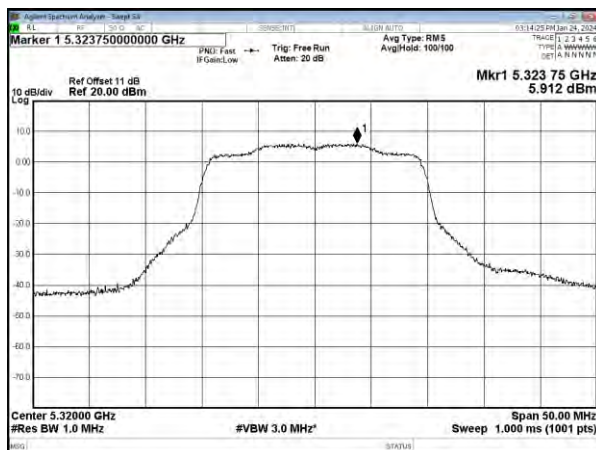
CH60



CH62

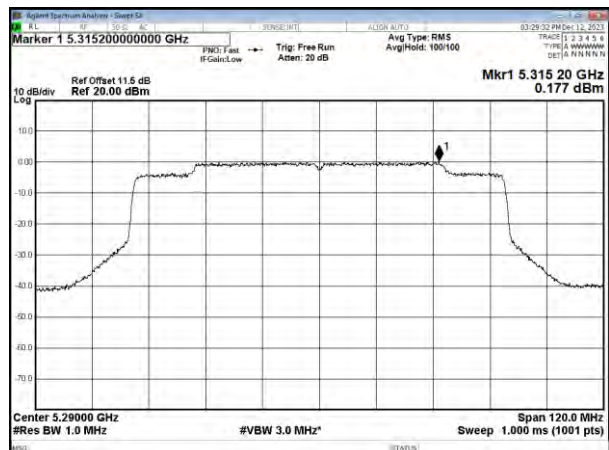


CH64



Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH58





UNII-2C

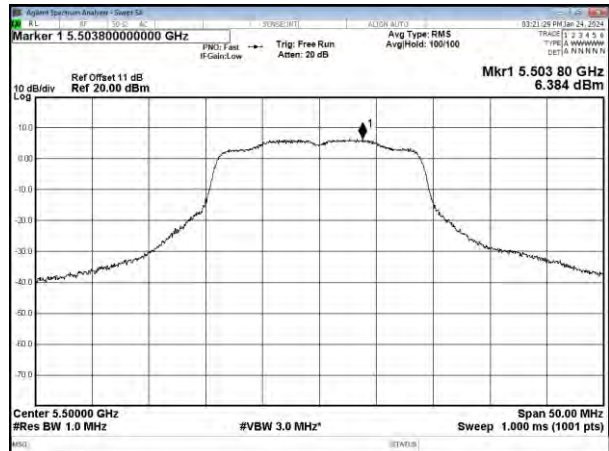
Modulation Standard: 802.11a (6Mbps)

CH100

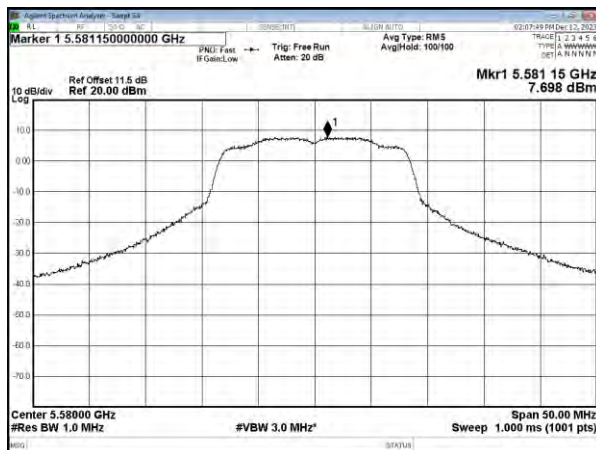


Modulation Standard: 802.11ac VHT20 (6.5Mbps)

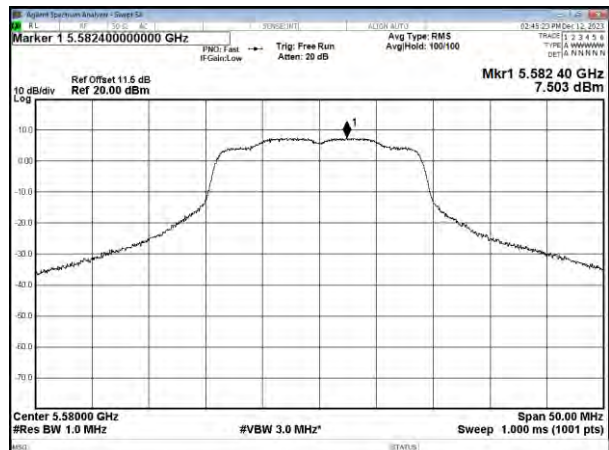
CH100



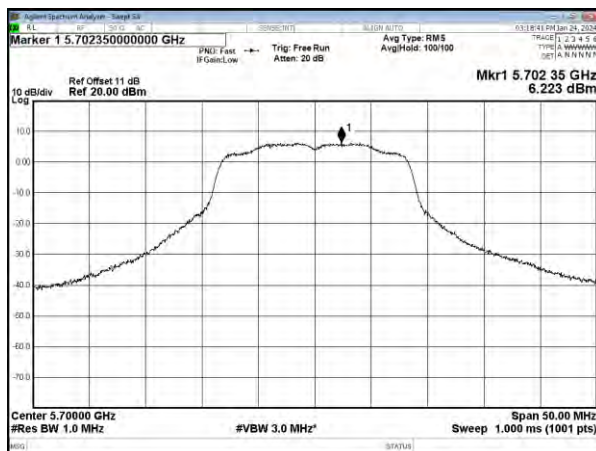
CH116



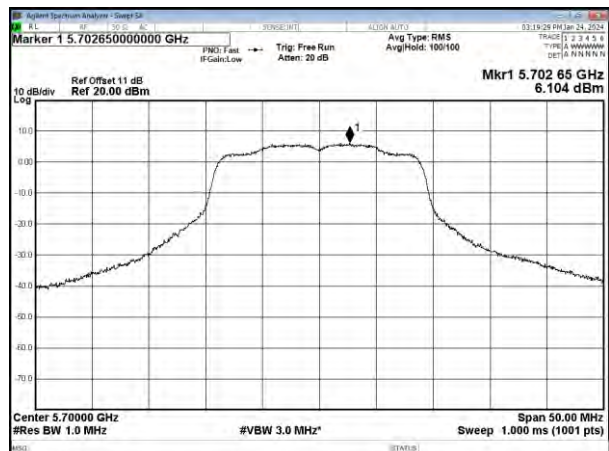
CH116



CH140



CH140

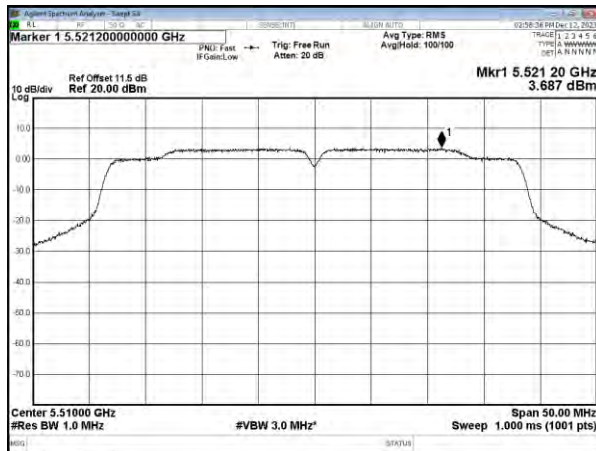




UNII-2C

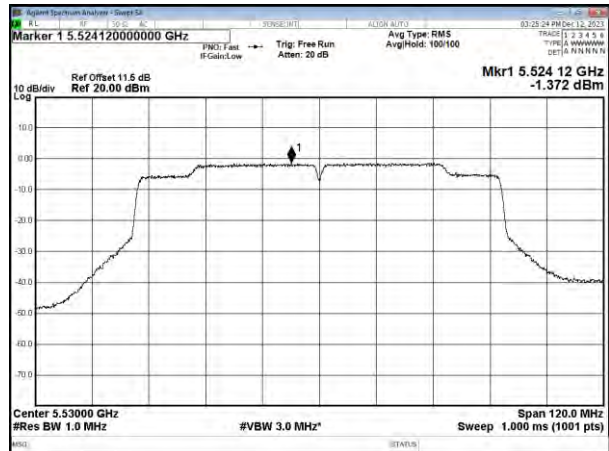
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH102

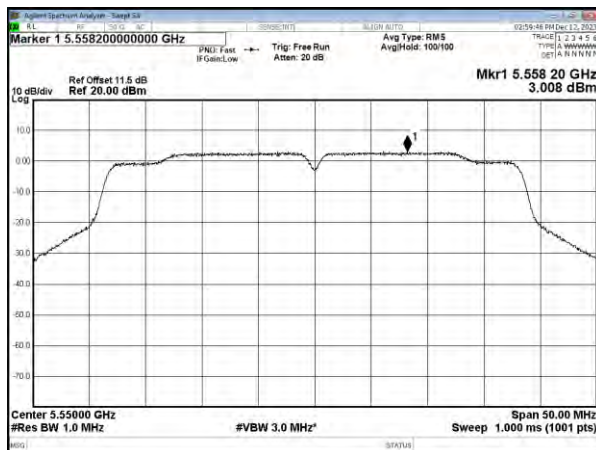


Modulation Standard: 802.11ac VHT80 (29.3Mbps)

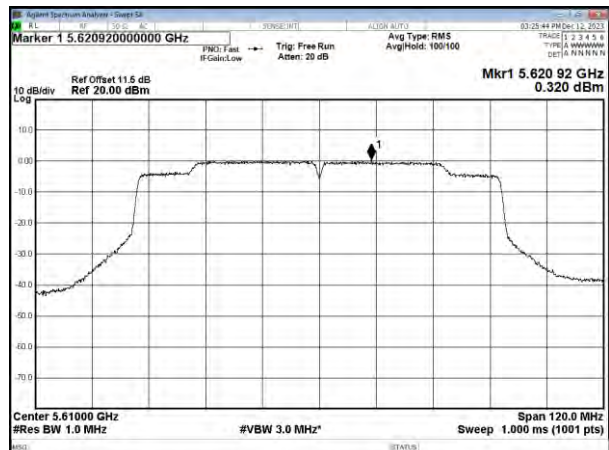
CH106



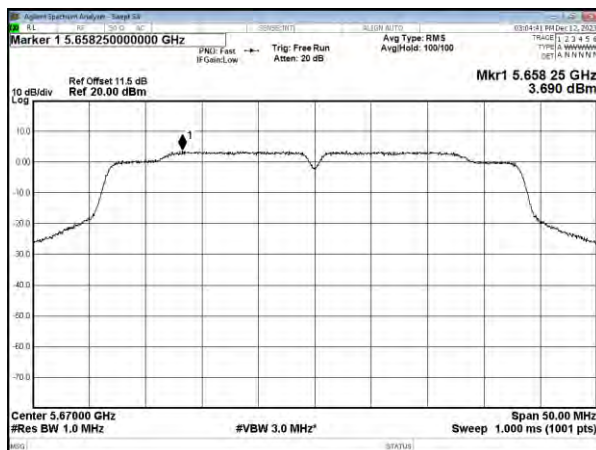
CH110



CH122



CH134

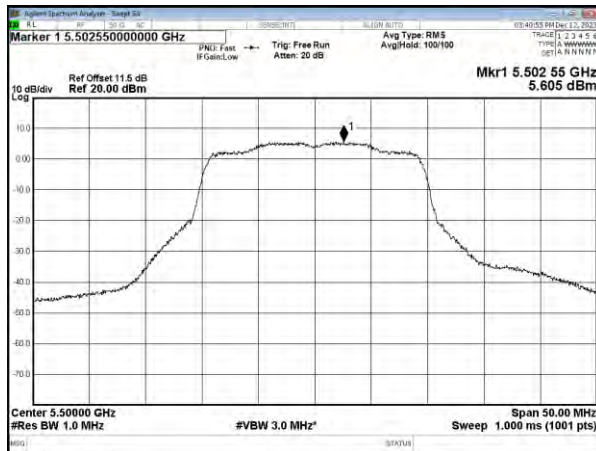




UNII-2C

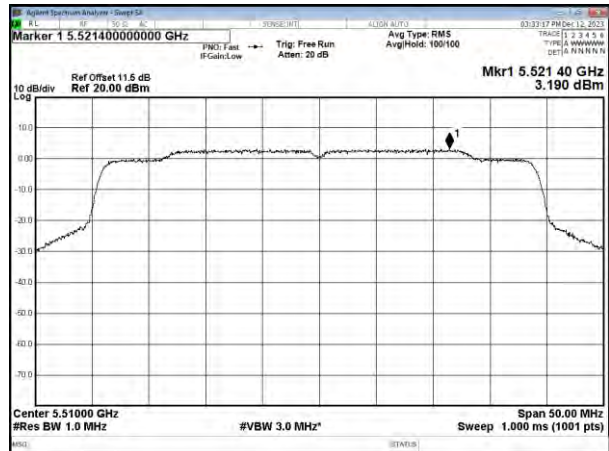
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH100

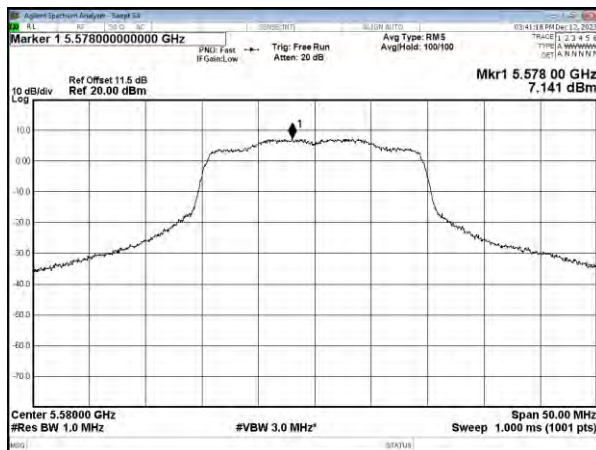


Modulation Standard: 802.11 ax HE40 (14.6Mbps)

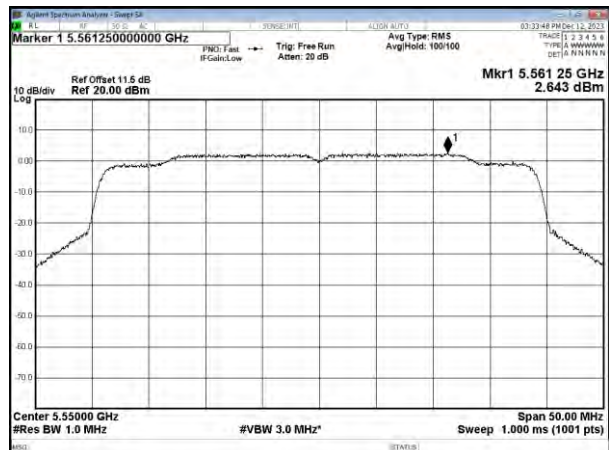
CH102



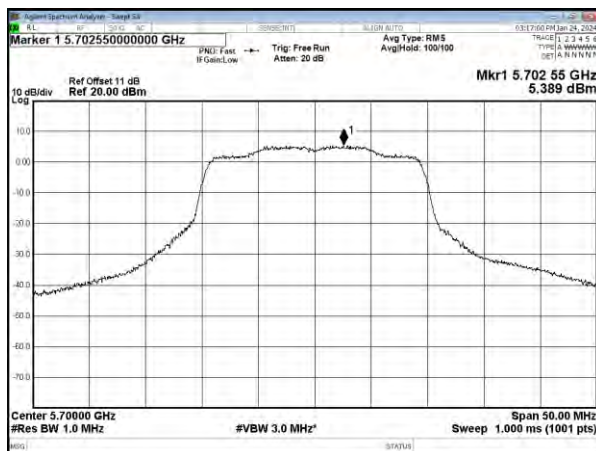
CH116



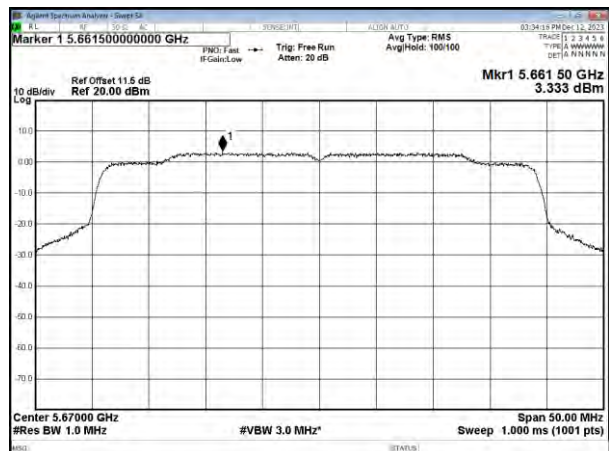
CH110



CH140



CH134

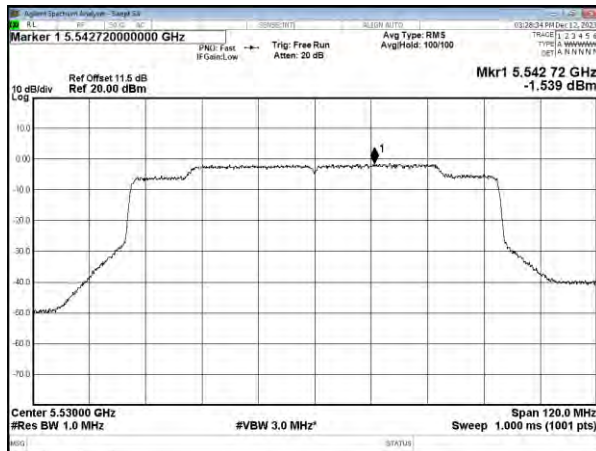




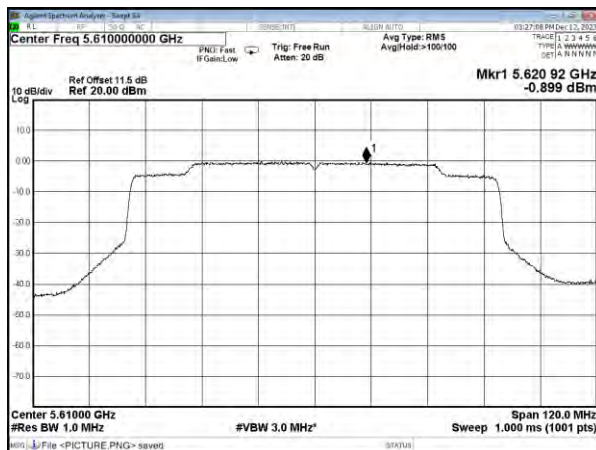
UNII-2C

Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH106



CH122

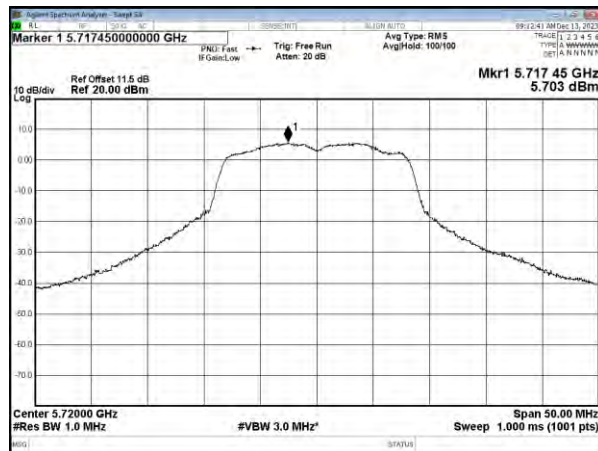




Band: Straddle Channel

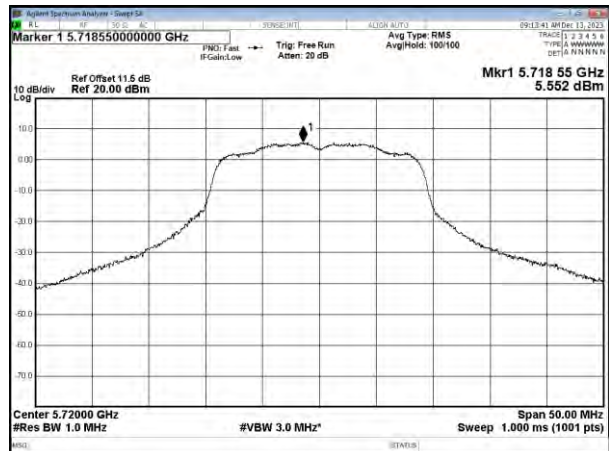
Modulation Standard: 802.11a (6.5Mbps)

CH144



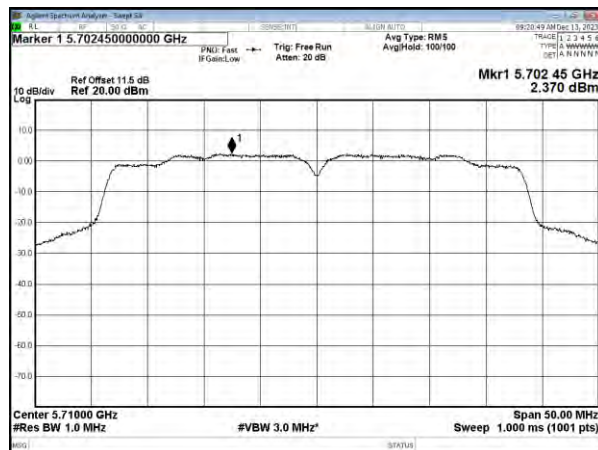
Modulation Standard: 802.11ac VHT20 (6.5Mbps)

CH144



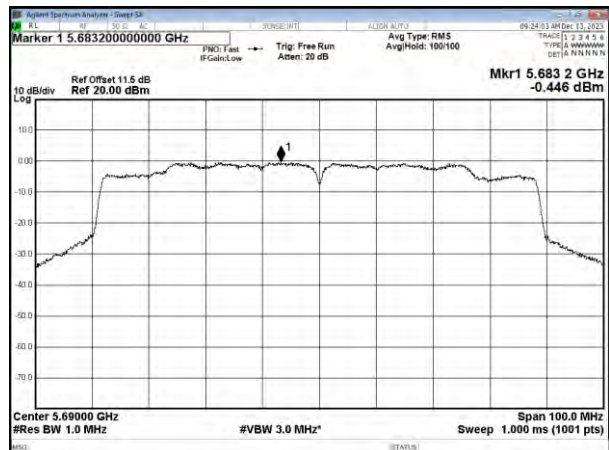
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH142



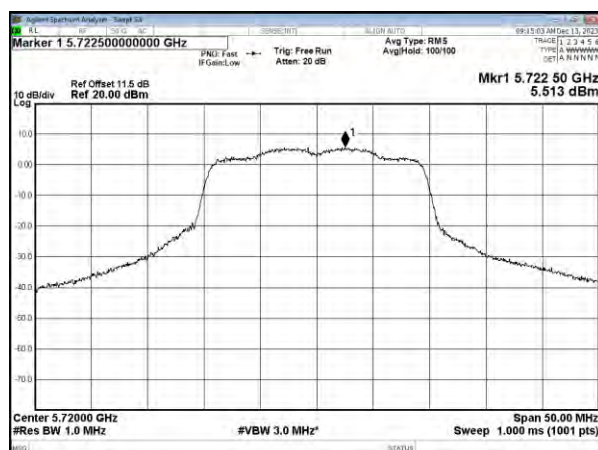
Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH138



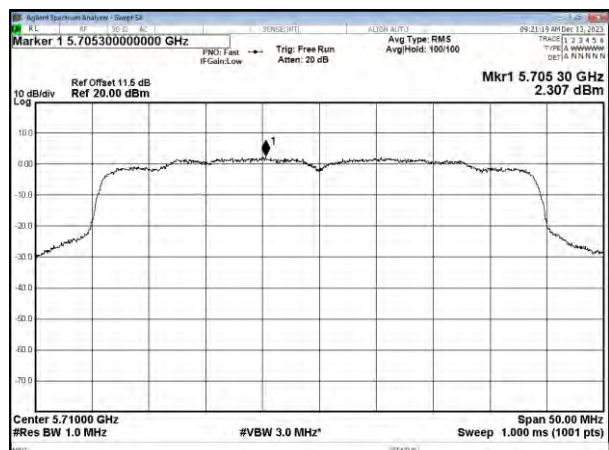
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH144



Modulation Standard: 802.11 ax HE40 (14.6Mbps)

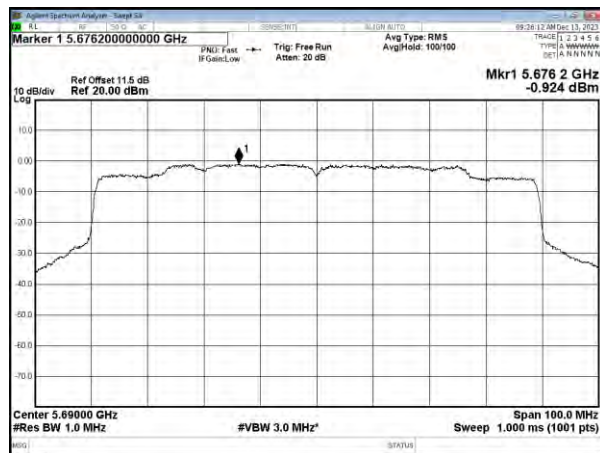
CH142





Modulation Standard: 802.11 ax HE80 (30.6Mbps)

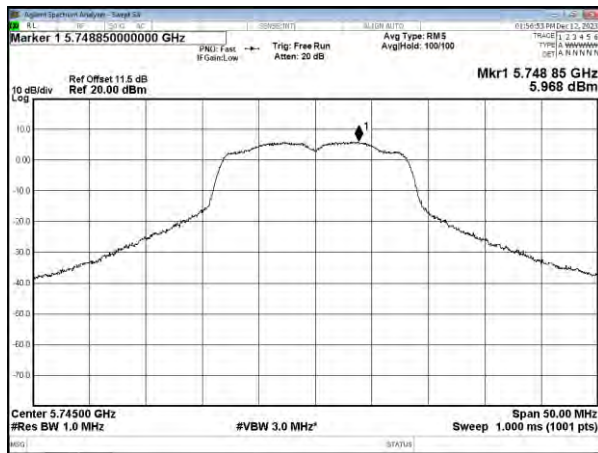
CH138



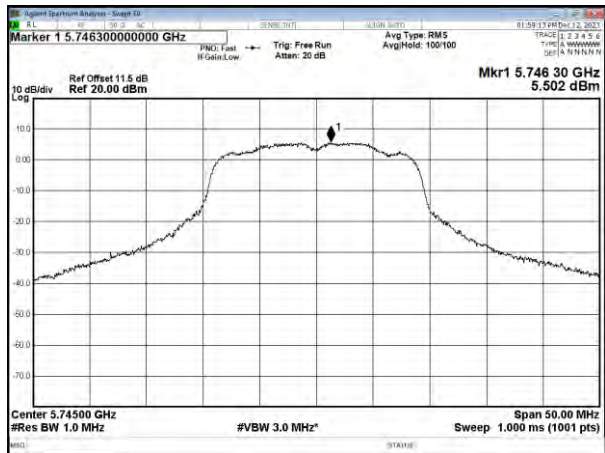


UNII-3

Modulation Type: 802.11a (6Mbps)
CH149



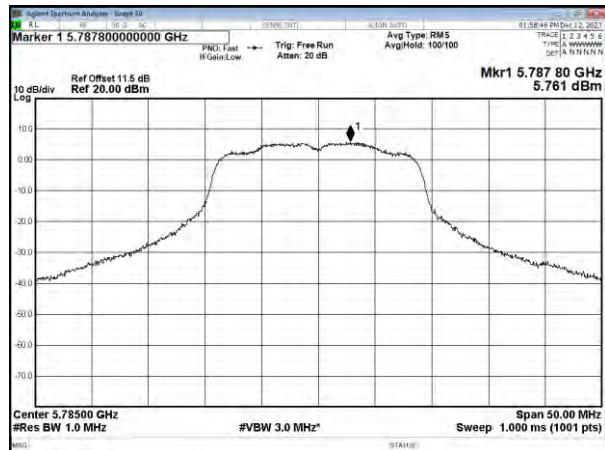
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



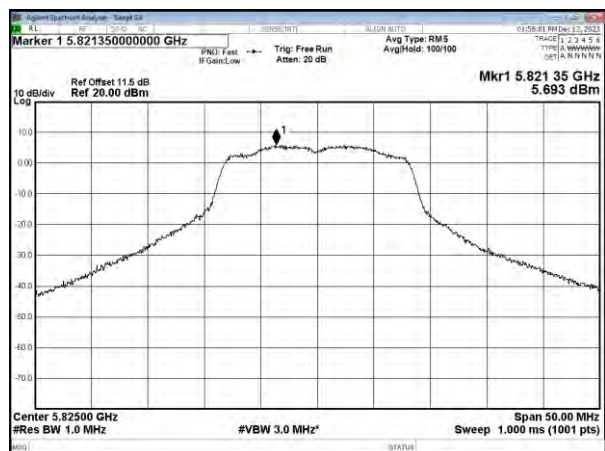
CH157



CH157



CH165



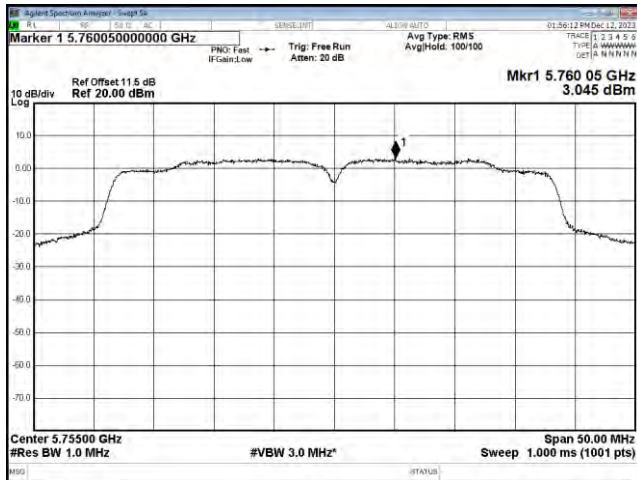
CH165



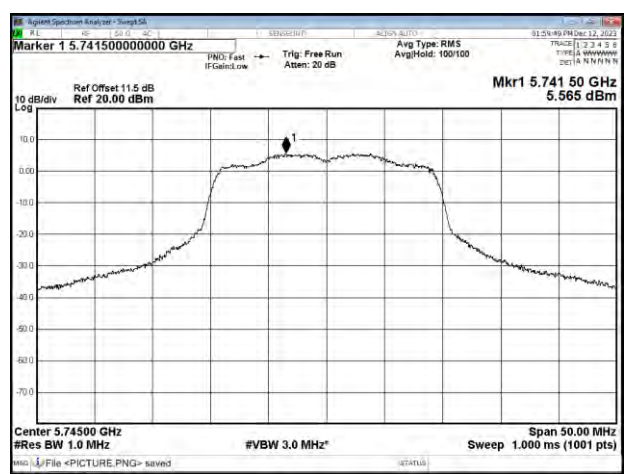


UNII-3

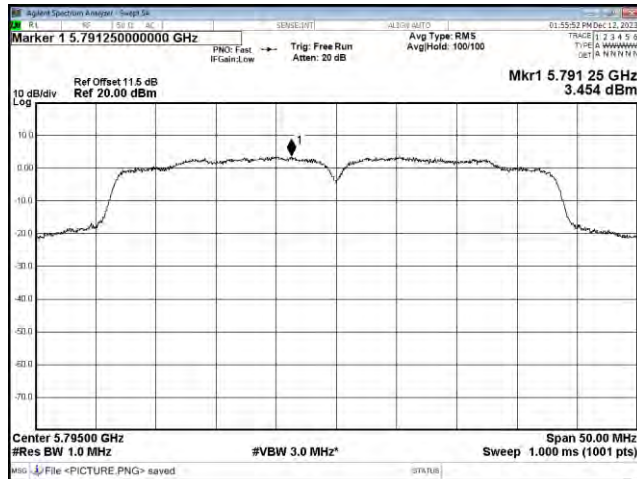
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



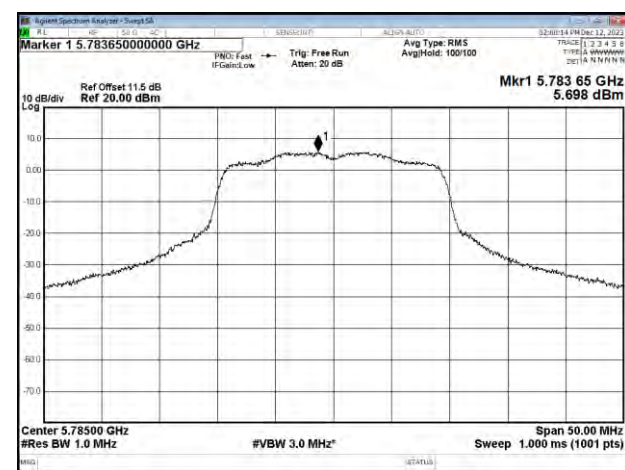
Modulation Type: 802.11n ax HE20 (7.3Mbps)
CH149



CH159

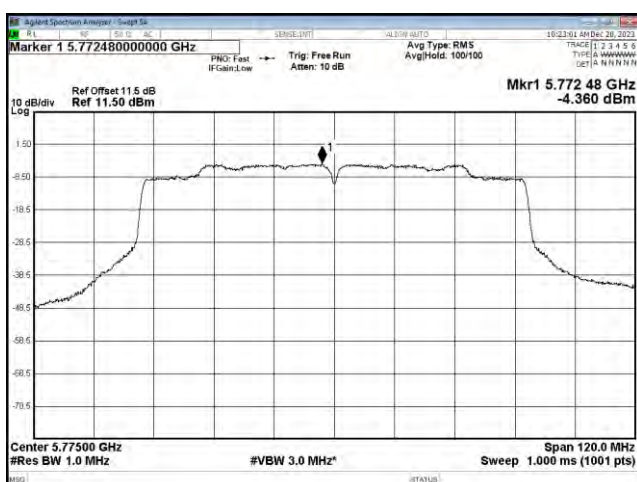


CH157

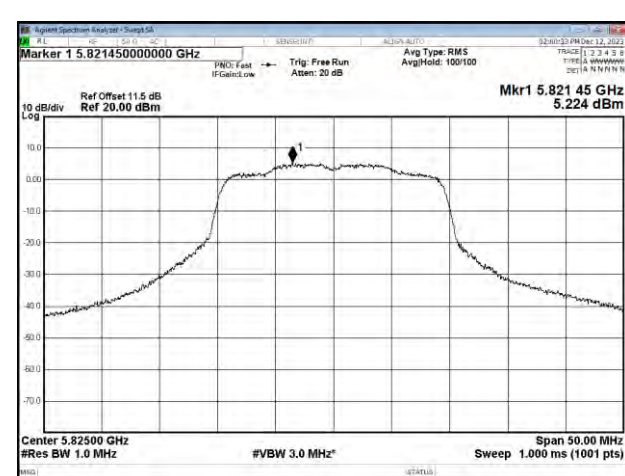


Modulation Type: 802.11ac, VHT80 (29.3Mbps)

CH155



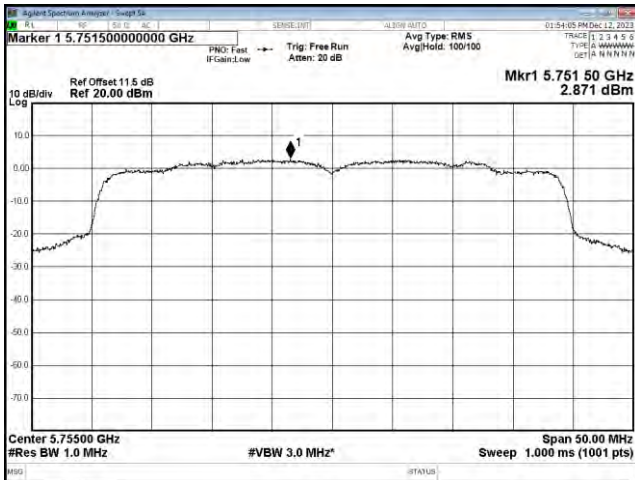
CH165



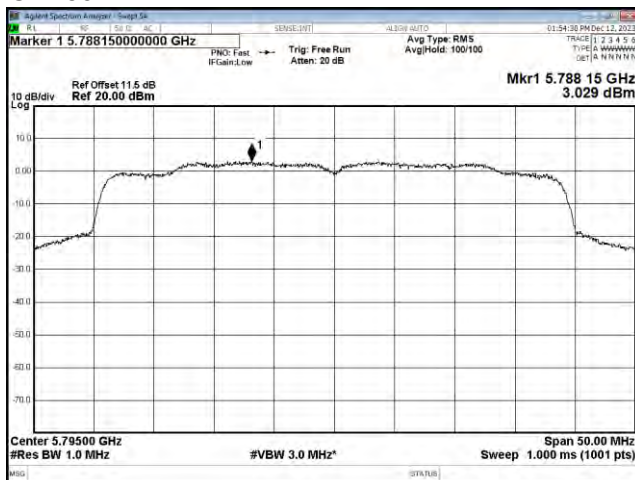


UNII-3

Modulation Type: 802.11 ax HE40 (14.6Mbps)
CH151

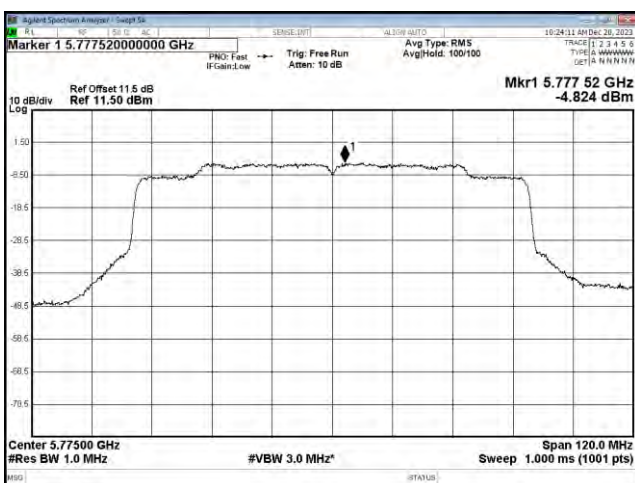


CH159



Modulation Type: 802.11ax HE80 (30.6Mbps)

CH155



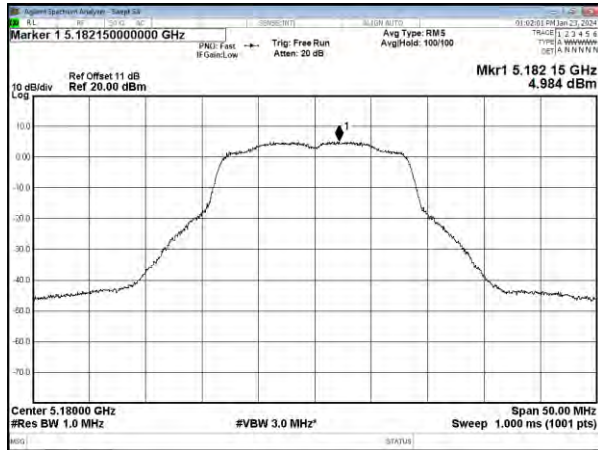


SISO (ANT B)

UNII-1

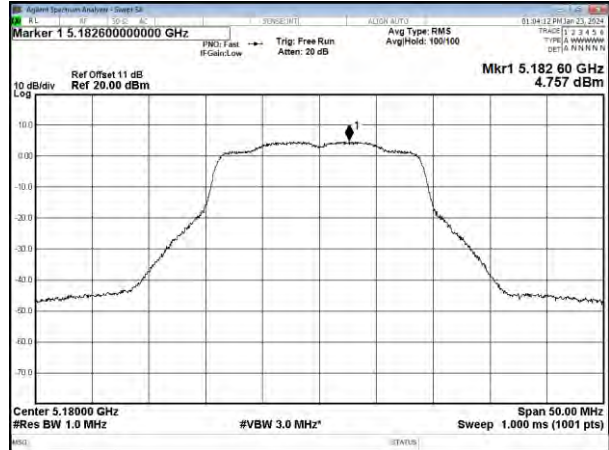
Modulation Standard: 802.11a (6Mbps)

CH36

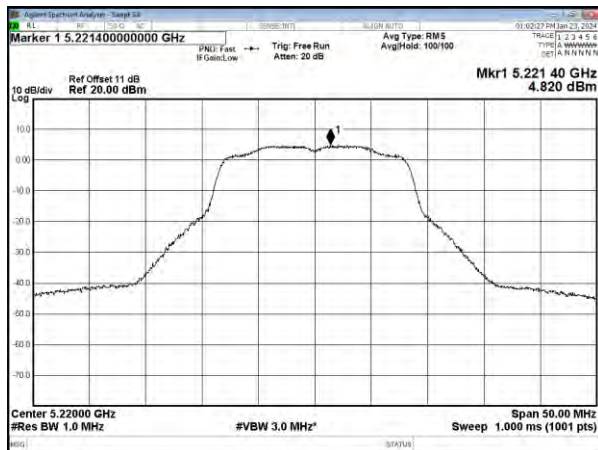


Modulation Standard: 802.11ac VHT20 (6.5Mbps)

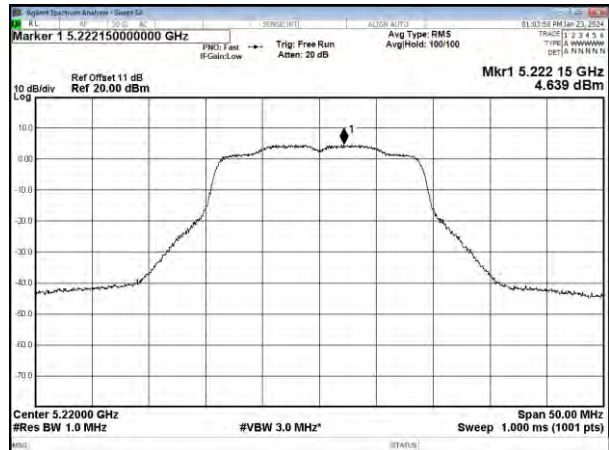
CH36



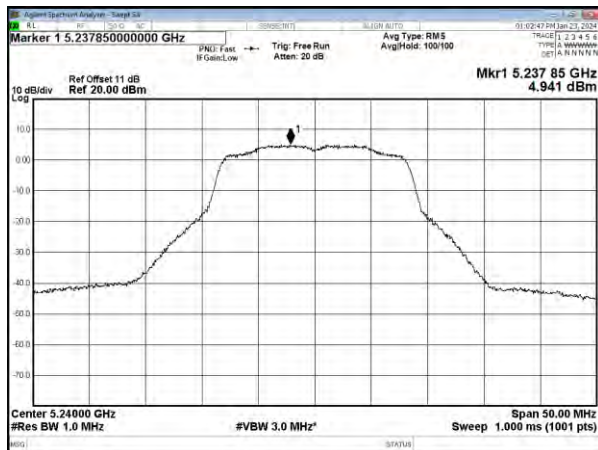
CH44



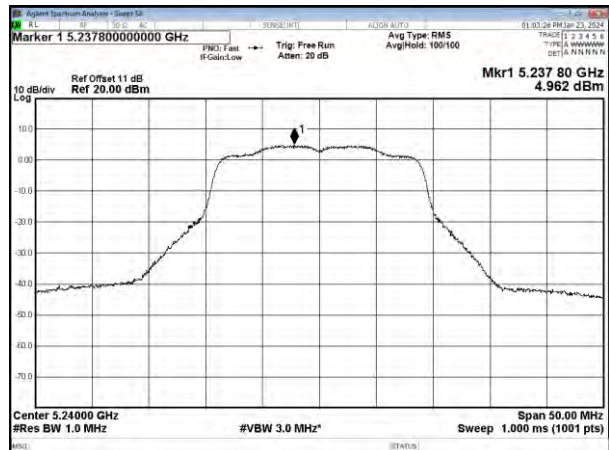
CH44



CH48



CH48

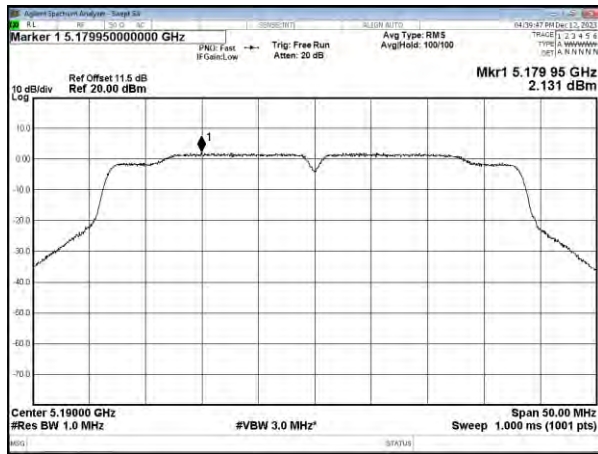




UNII-1

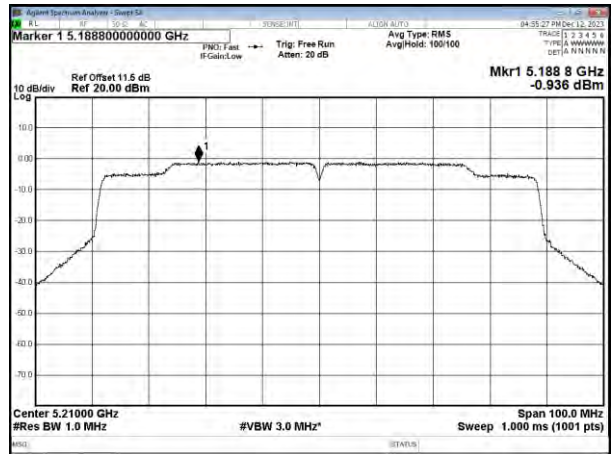
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH38

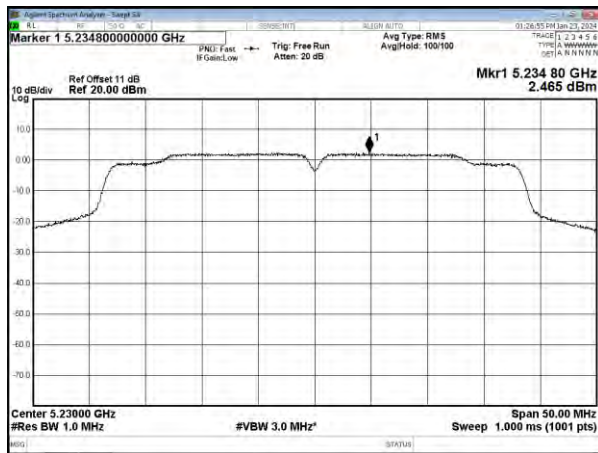


Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH42



CH46

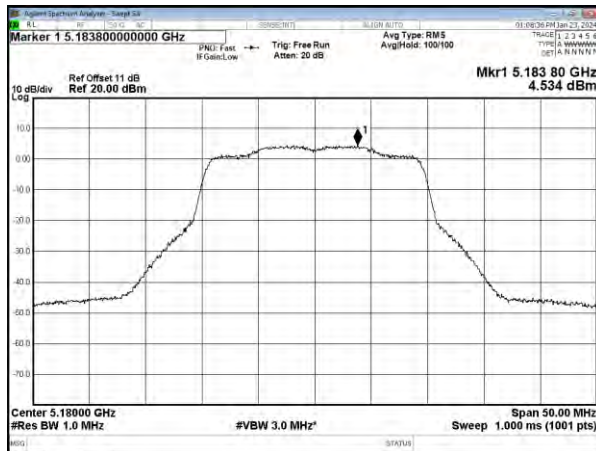




UNII-1

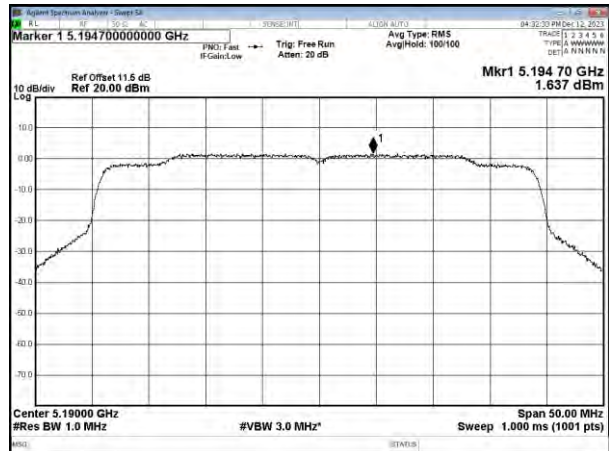
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH36

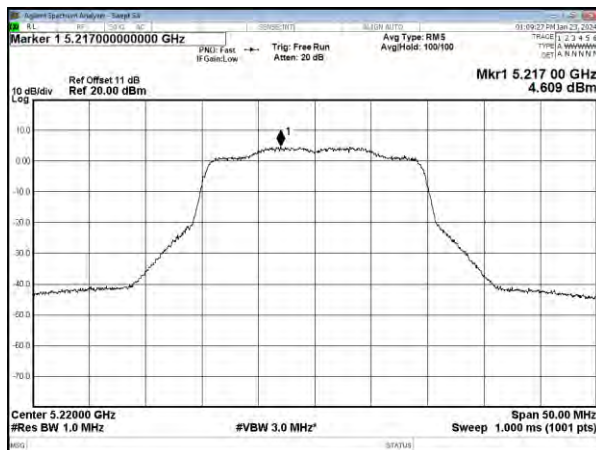


Modulation Standard: 802.11 ax HE40 (14.6Mbps)

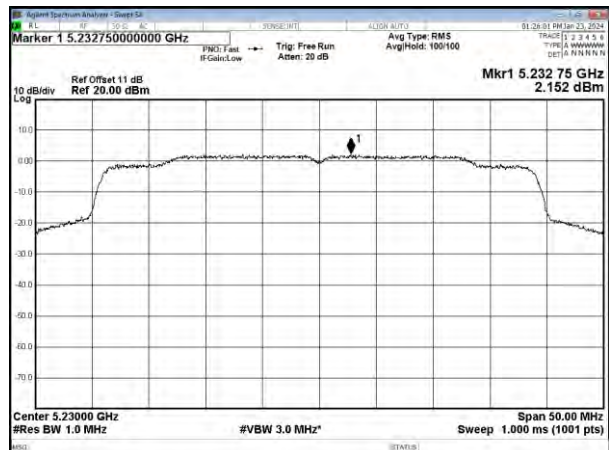
CH38



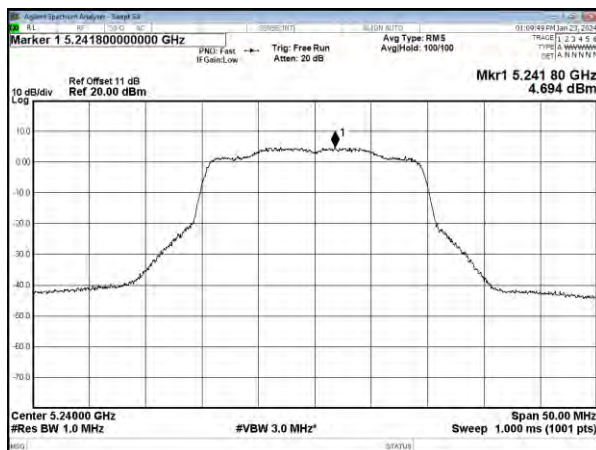
CH44



CH46

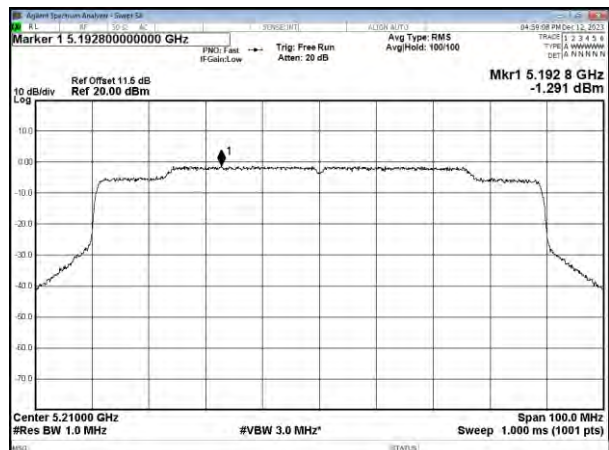


CH48



Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH42

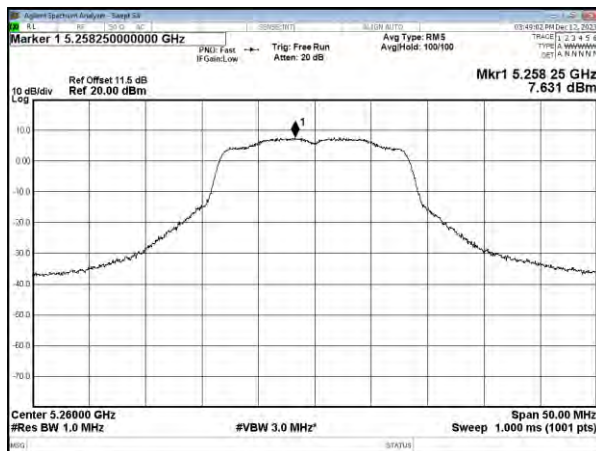




UNII-2A

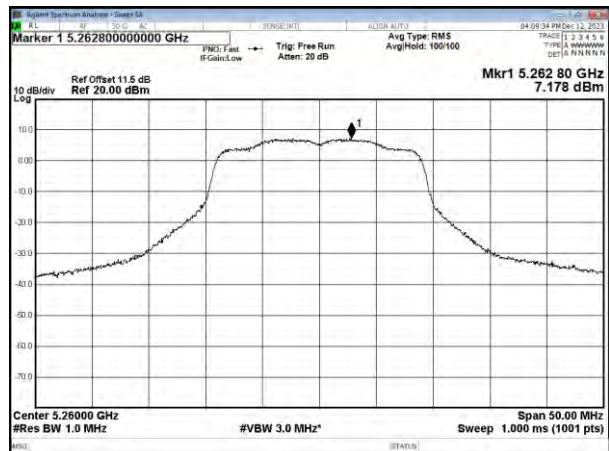
Modulation Standard: 802.11a (6Mbps)

CH52

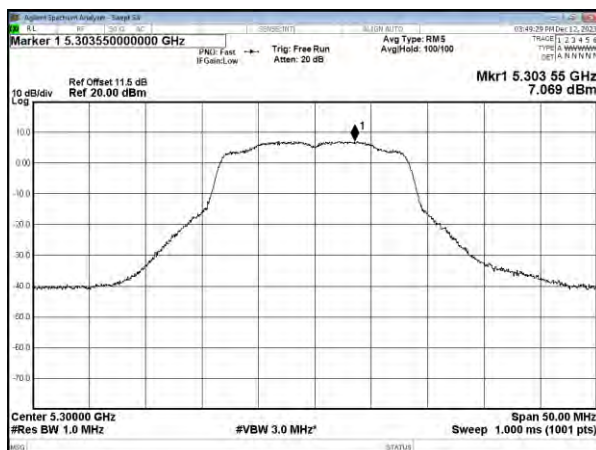


Modulation Standard: 802.11ac VHT20 (6.5Mbps)

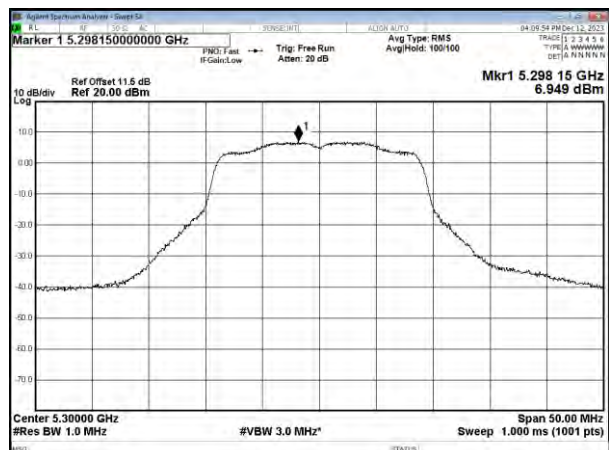
CH52



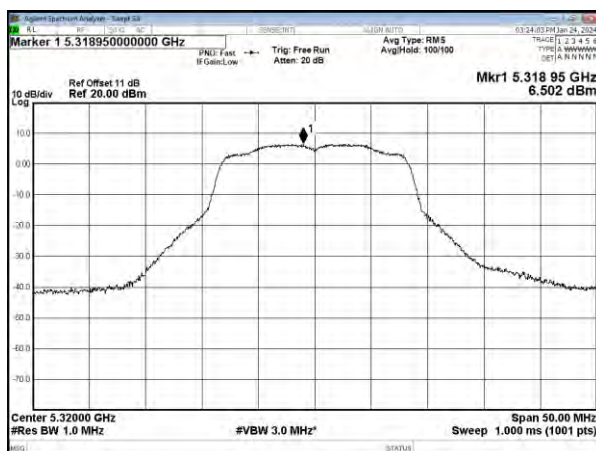
CH60



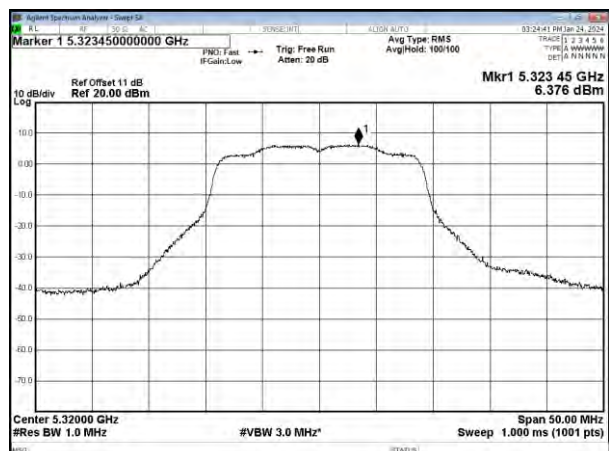
CH60



CH64



CH64

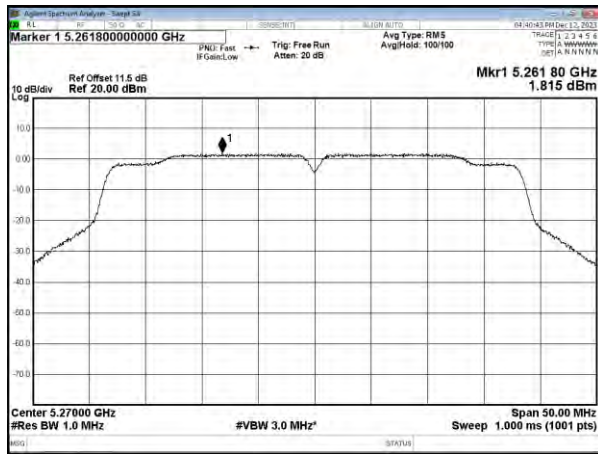




UNII-2A

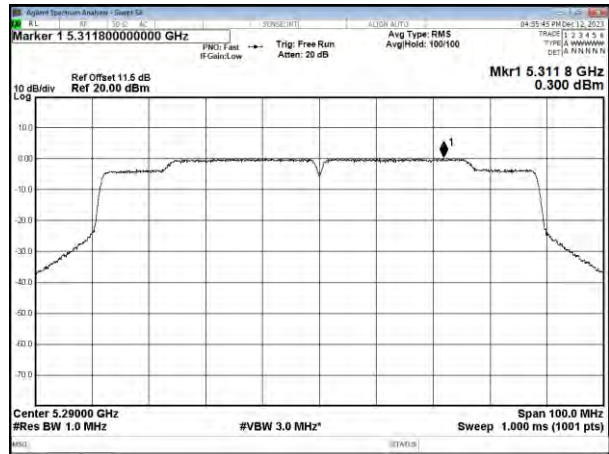
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH54

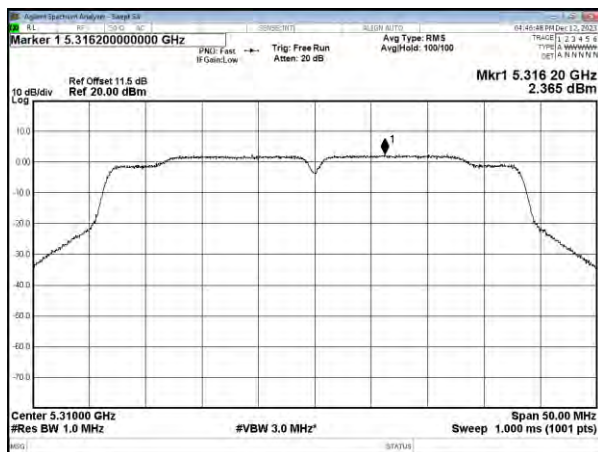


Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH58



CH62

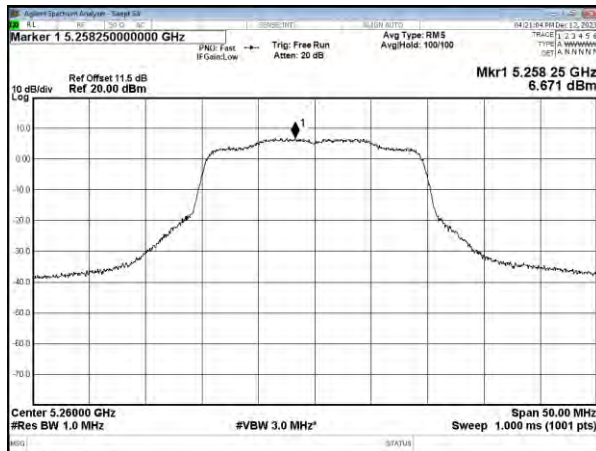




UNII-2A

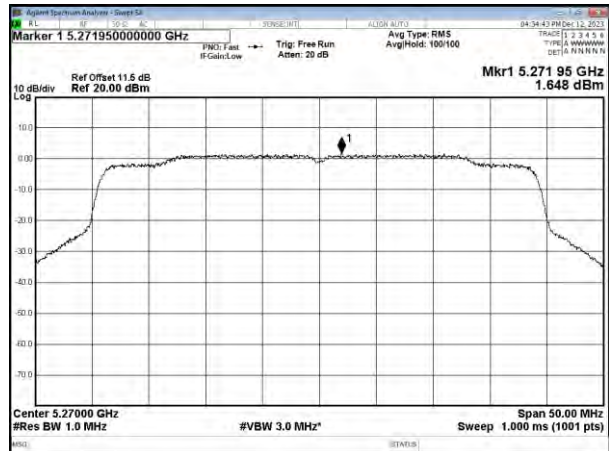
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH52

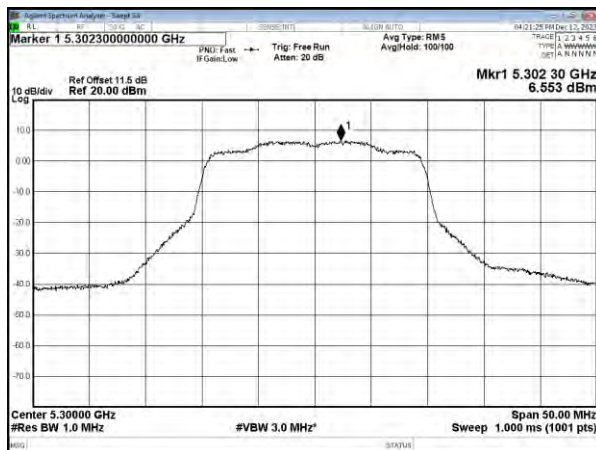


Modulation Standard: 802.11 ax HE40 (14.6Mbps)

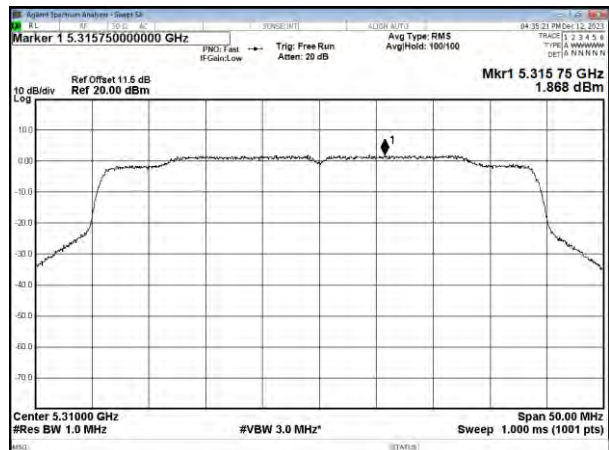
CH54



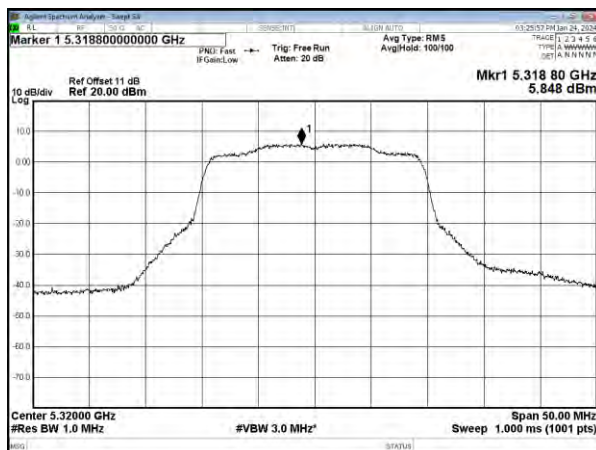
CH60



CH62

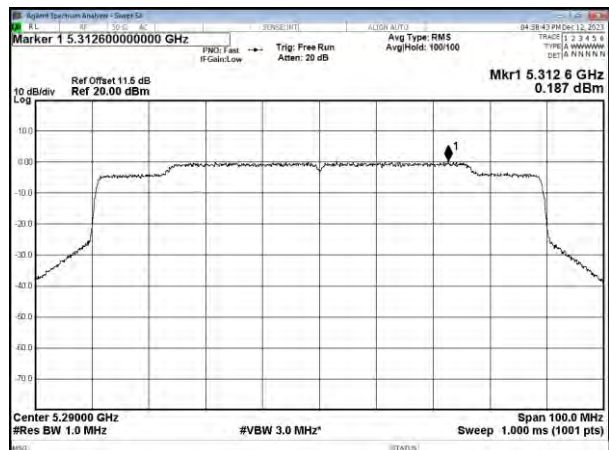


CH64



Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH58





UNII-2C

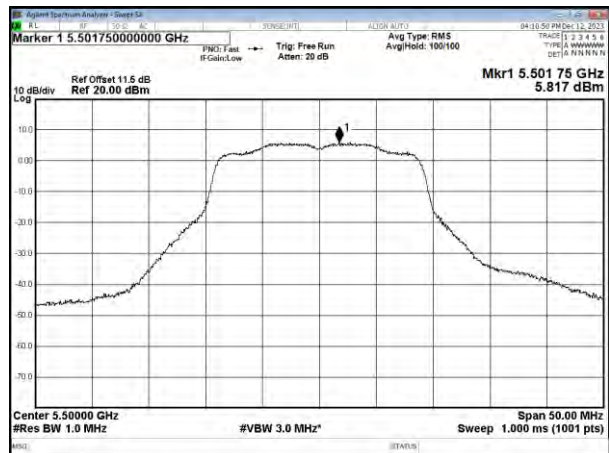
Modulation Standard: 802.11a (6Mbps)

CH100

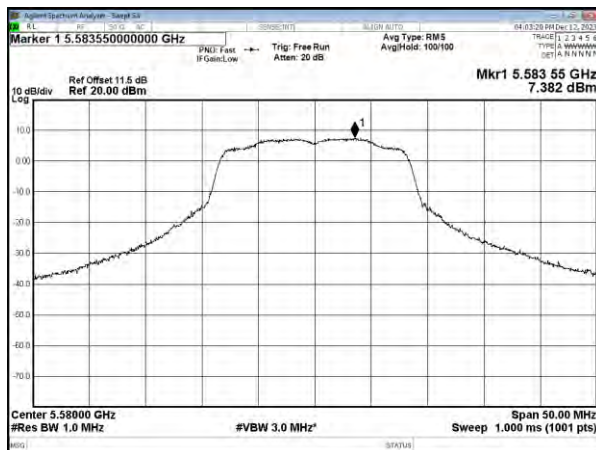


Modulation Standard: 802.11ac VHT20 (6.5Mbps)

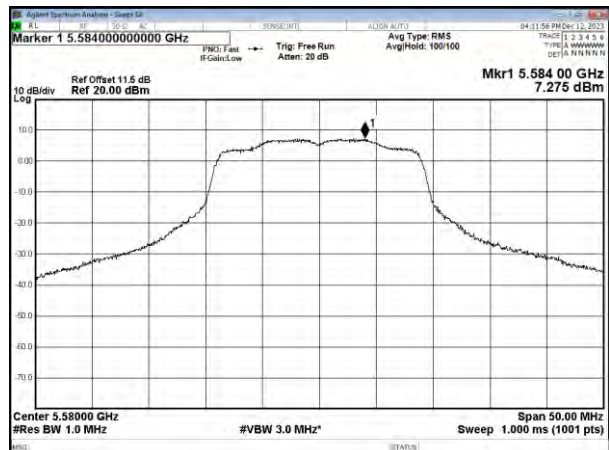
CH100



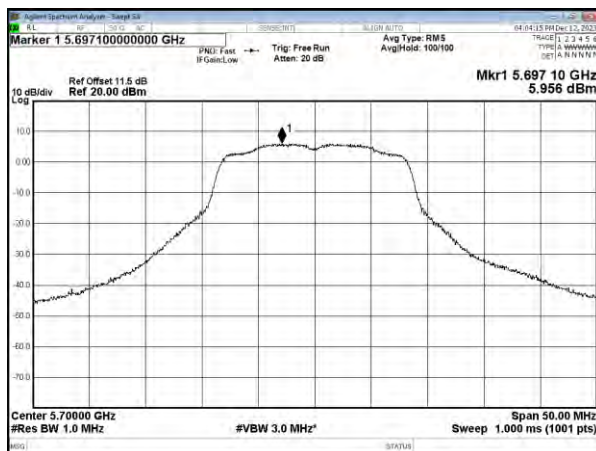
CH116



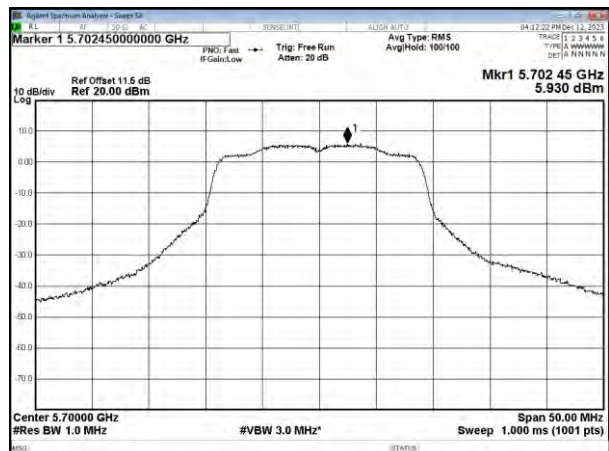
CH116



CH140



CH140

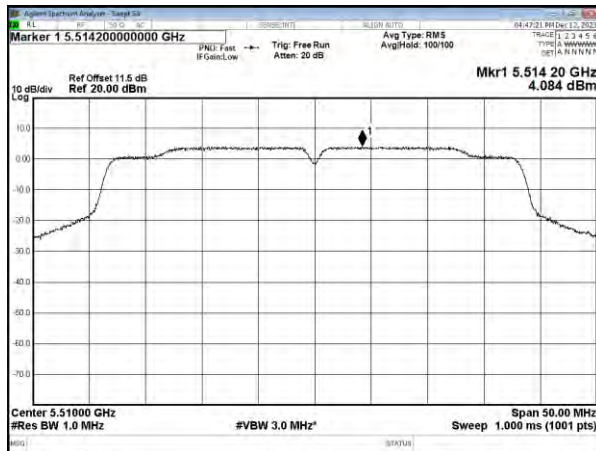




UNII-2C

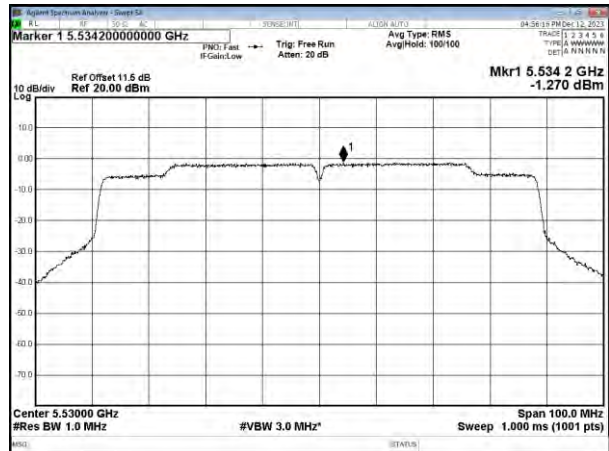
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH102

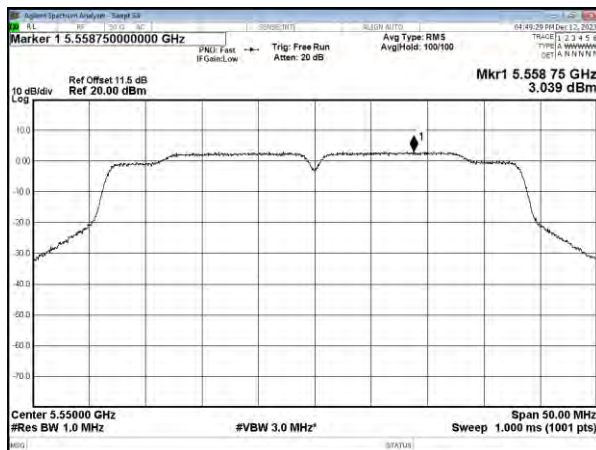


Modulation Standard: 802.11ac VHT80 (29.3Mbps)

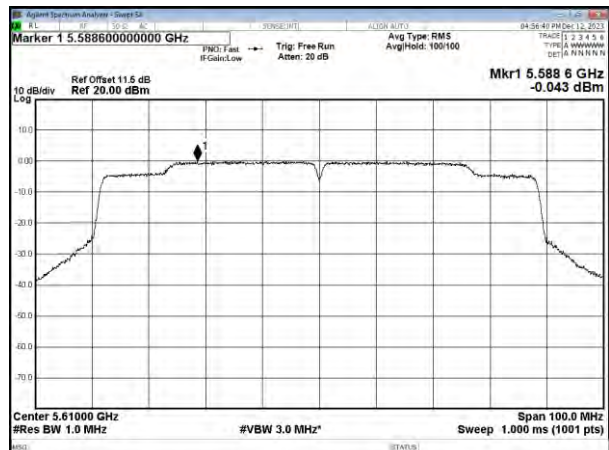
CH106



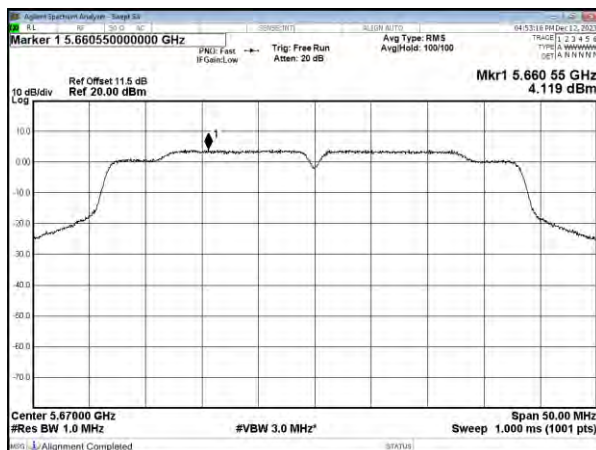
CH110



CH122



CH134

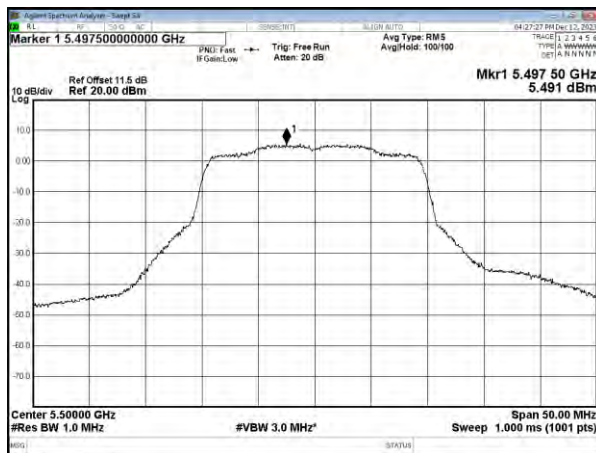




UNII-2C

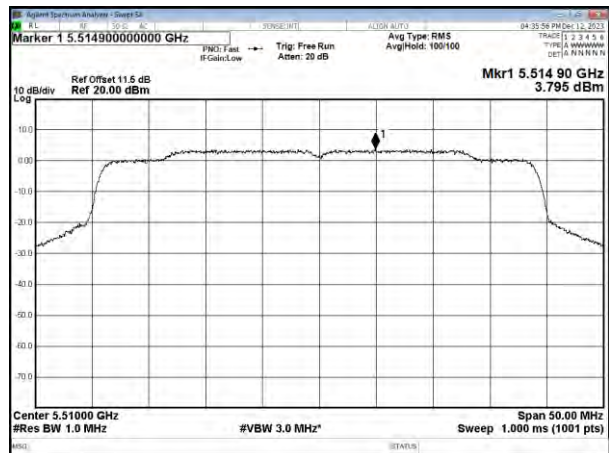
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH100

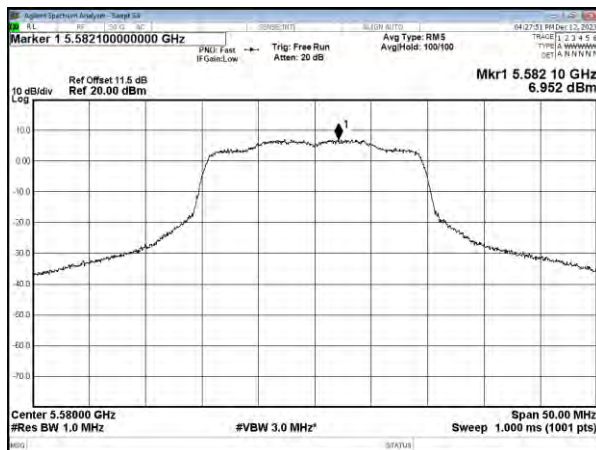


Modulation Standard: 802.11 ax HE40 (14.6Mbps)

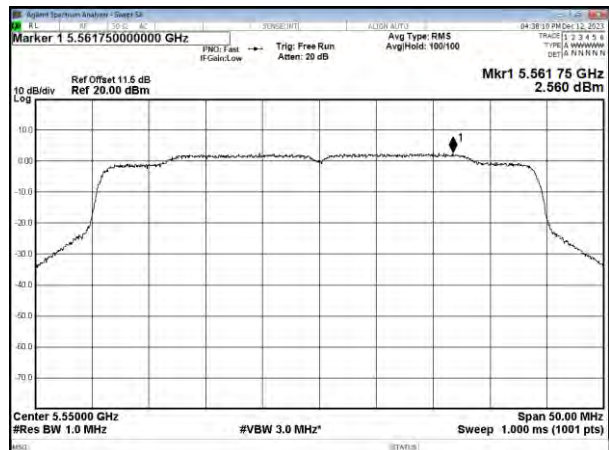
CH102



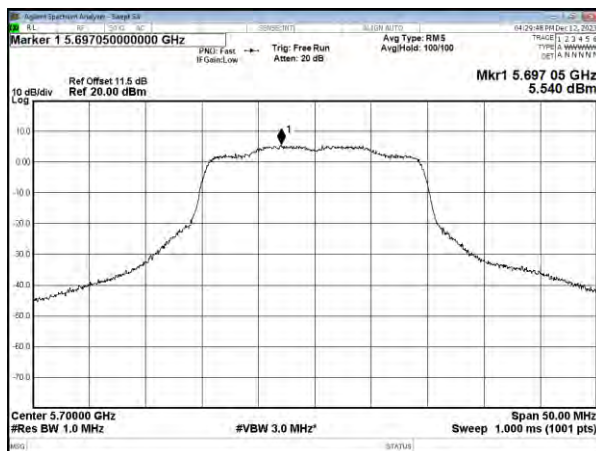
CH116



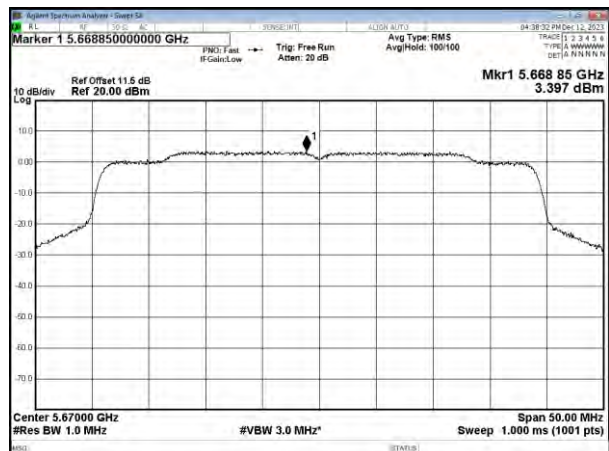
CH110



CH140



CH134

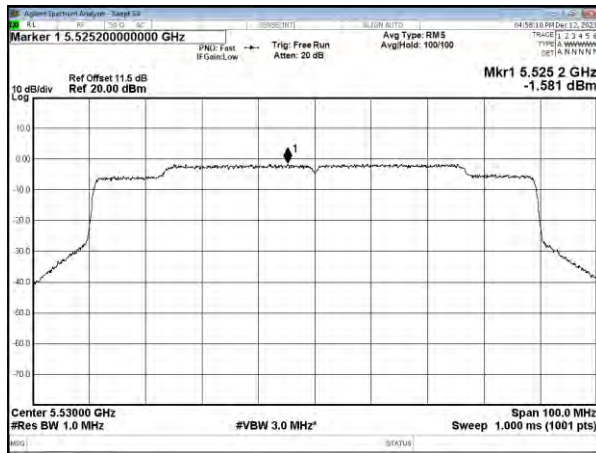


UNII-2C

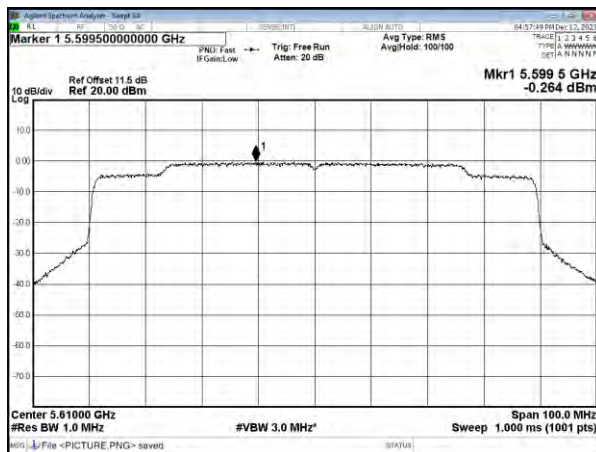


Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH106



CH122





Band: Straddle Channel

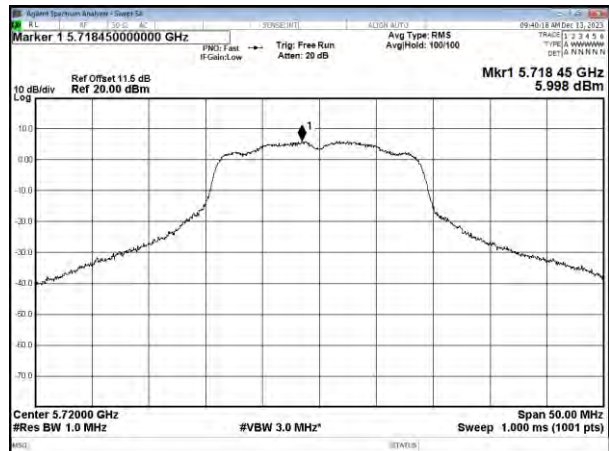
Modulation Standard: 802.11a (6.5Mbps)

CH144



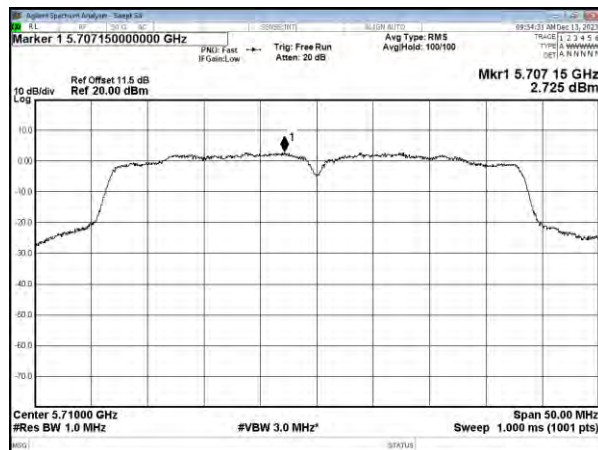
Modulation Standard: 802.11ac VHT20 (6.5Mbps)

CH144



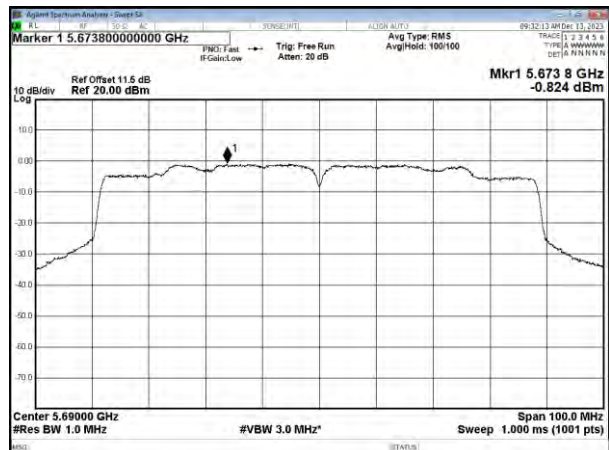
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH142



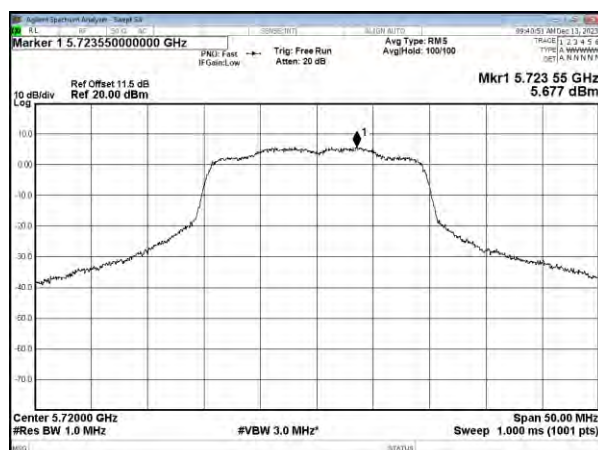
Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH138



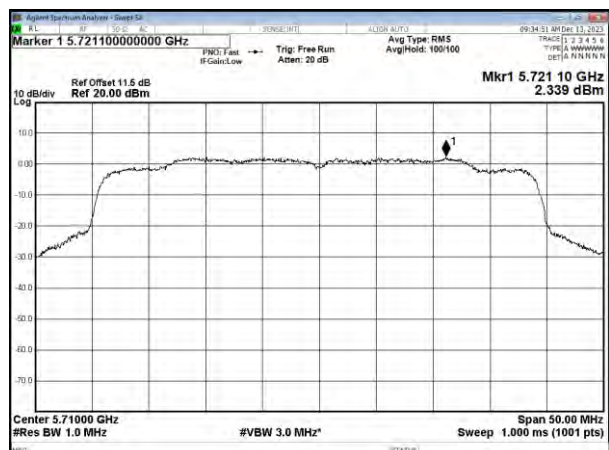
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH144



Modulation Standard: 802.11 ax HE40 (14.6Mbps)

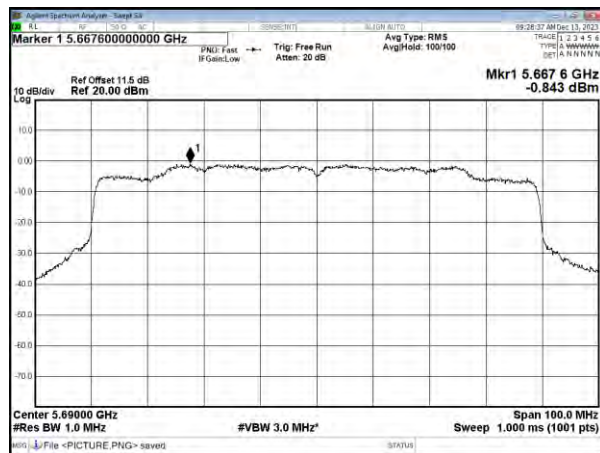
CH142





Modulation Standard: 802.11 ax HE80 (30.6Mbps)

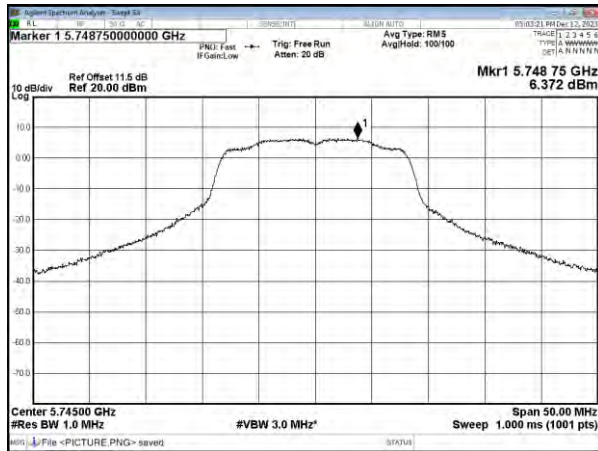
CH138



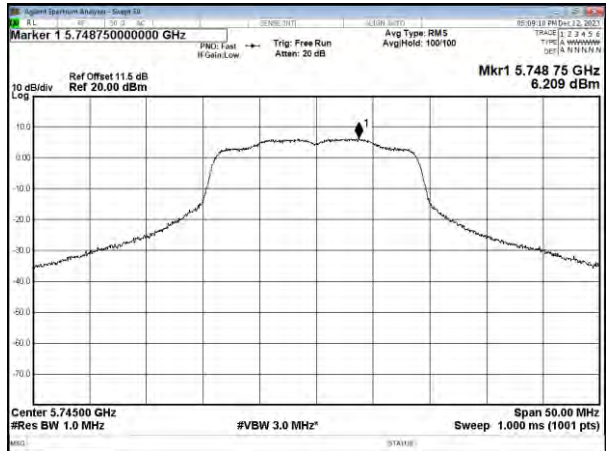


UNII-3

Modulation Type: 802.11a (6Mbps)
CH149



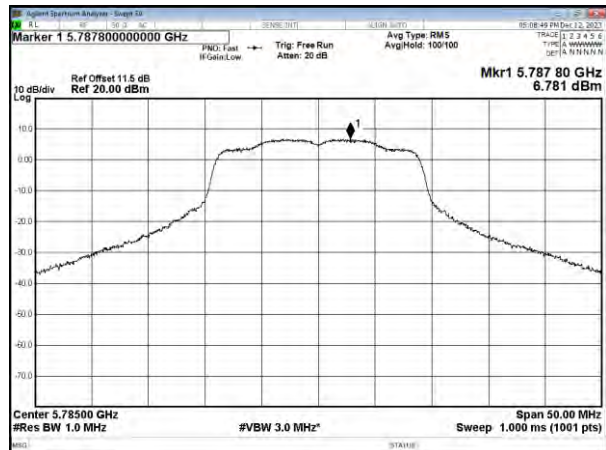
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



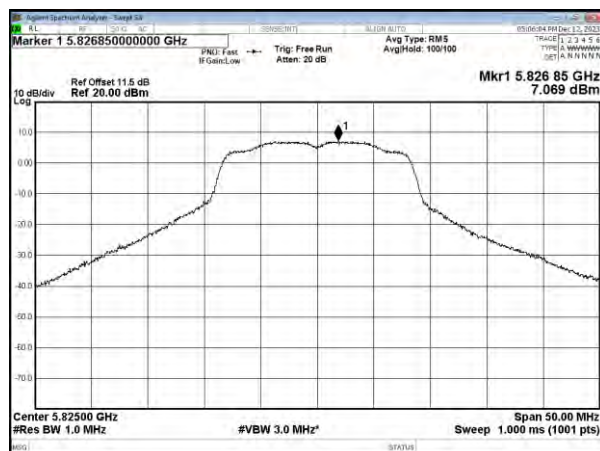
CH157



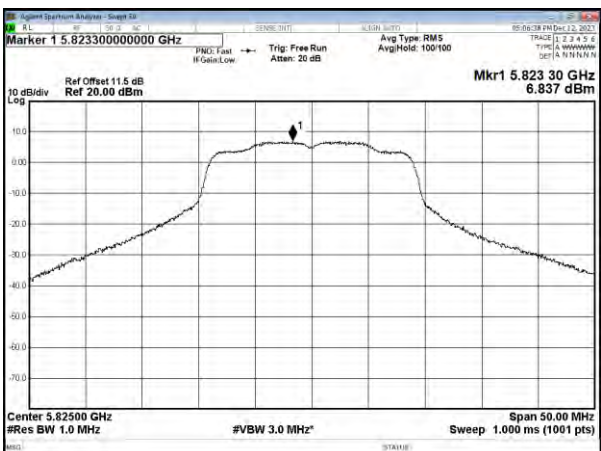
CH157



CH165

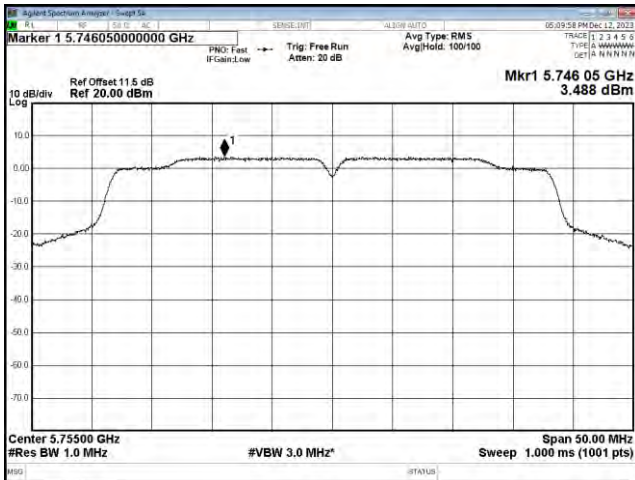
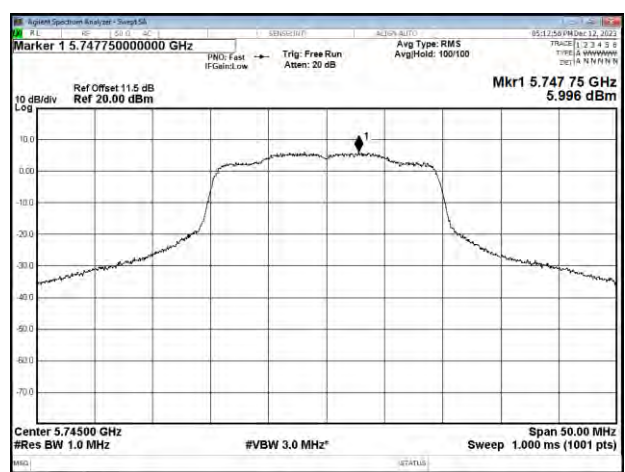


CH165

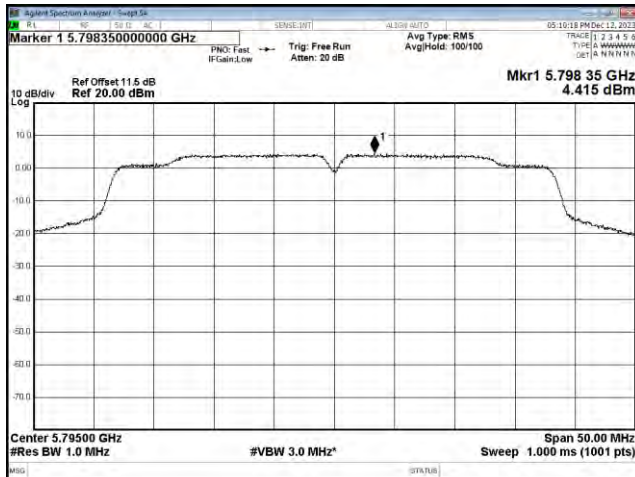




UNII-3

Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151Modulation Type: 802.1111ax HE20 (7.3Mbps)
CH149

CH159

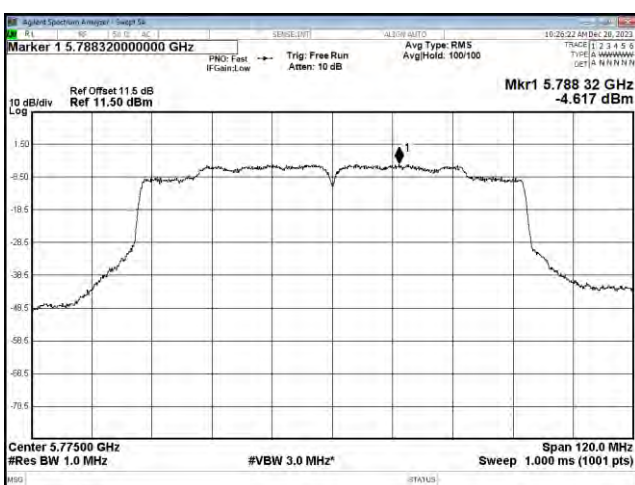


CH157

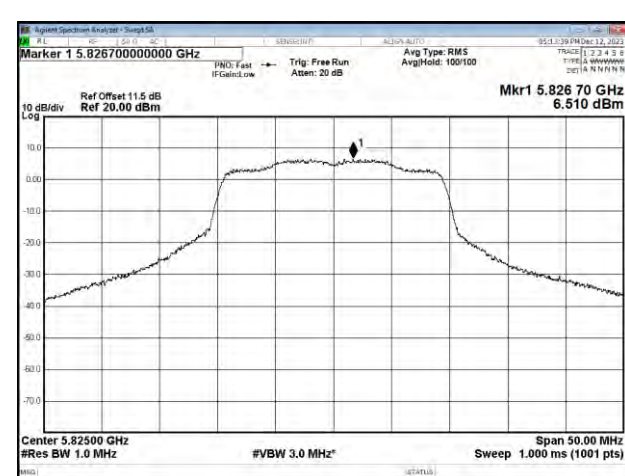


Modulation Type: 802.11ac, VHT80 (29.3Mbps)

CH155



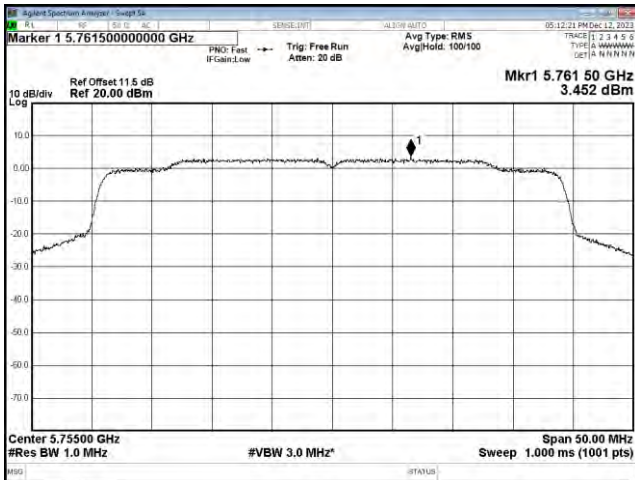
CH165



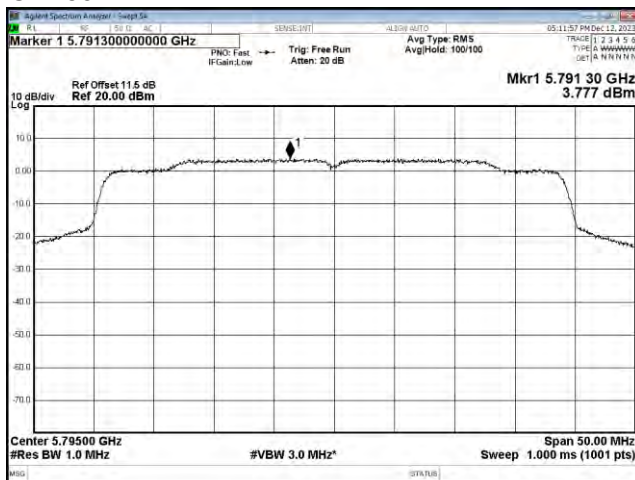


UNII-3

Modulation Type: 802.11 ax HE40 (14.6Mbps)
CH151

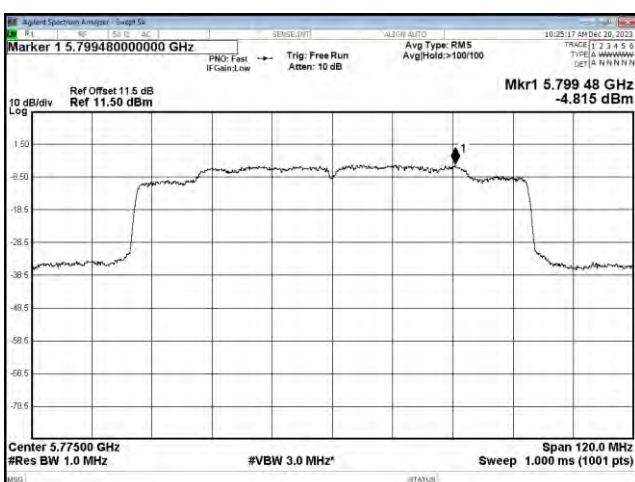


CH159



Modulation Type: 802.11ax HE80 (30.6Mbps)

CH155



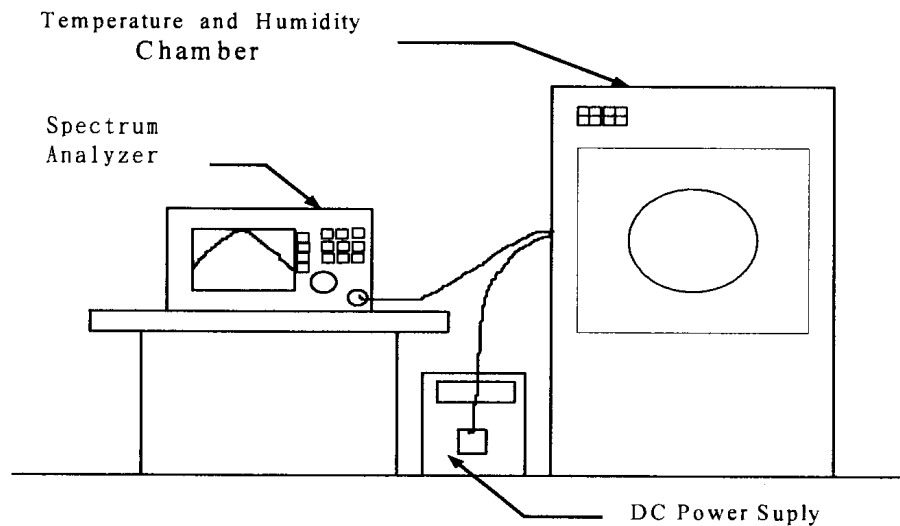


12. Frequency Stability

12.1. Test Procedure

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

12.2. Test Setup Layout



**12.3. Test Result and Data**

Operating frequency: 5180 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(°C)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
35	13.2	5179.9978	-0.000042	5179.9978	-0.000042	5179.9966	-0.000066
	12	5179.9965	-0.000068	5179.9988	-0.000023	5179.9964	-0.000069
	10.8	5179.9967	-0.000064	5179.9973	-0.000052	5179.9977	-0.000044
20	13.2	5179.9972	-0.000054	5179.9986	-0.000027	5179.9996	-0.000008
	12	5179.9986	-0.000027	5179.9976	-0.000046	5179.9996	-0.000008
	10.8	5179.9967	-0.000064	5179.9981	-0.000037	5179.9973	-0.000052
10	13.2	5179.9959	-0.000079	5179.9992	-0.000015	5179.9967	-0.000064
	12	5179.9943	-0.000110	5179.9967	-0.000064	5179.9982	-0.000035
	10.8	5179.9964	-0.000069	5179.9991	-0.000017	5179.9973	-0.000052
0	13.2	5179.9967	-0.000064	5179.9958	-0.000081	5179.9967	-0.000064
	12	5179.9977	-0.000044	5179.9981	-0.000037	5179.9969	-0.000060
	10.8	5179.9996	-0.000008	5179.9976	-0.000046	5179.9993	-0.000014

Limit:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

-----End of the report -----