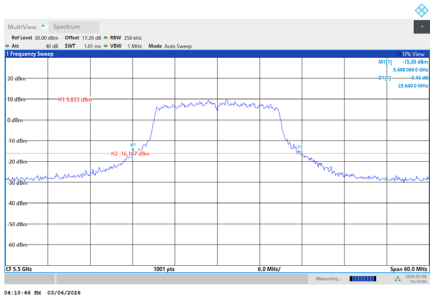
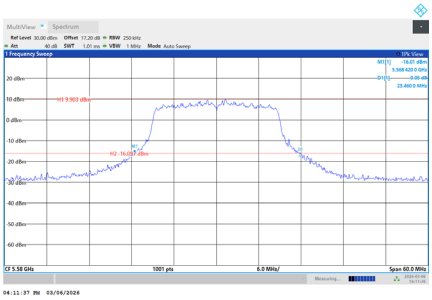
Test Mode	UNII-2C_TX AC(VHT20) Mode

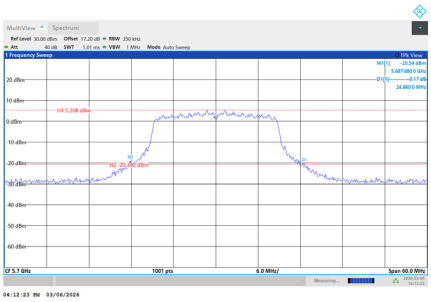
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
100	5500	23.640	18.032
116	5580	23.460	17.981
140	5700	24.660	18.123

CH100 **CH116** **CH140**

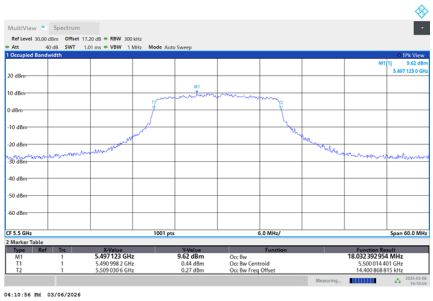
26 dB Bandwidth

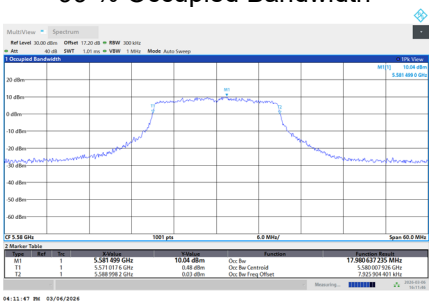


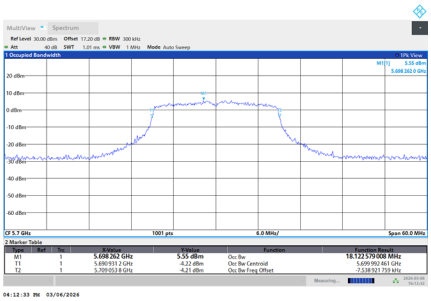




99 % Occupied Bandwidth





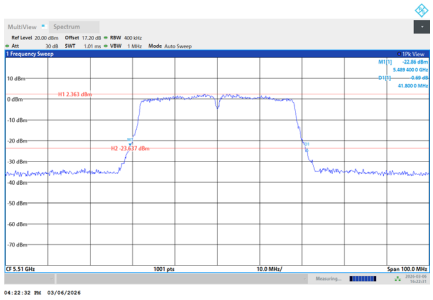


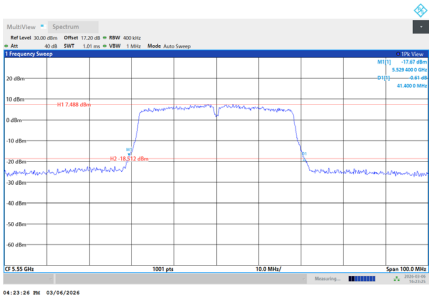
Test Mode	UNII-2C_TX AC(VHT40) Mode

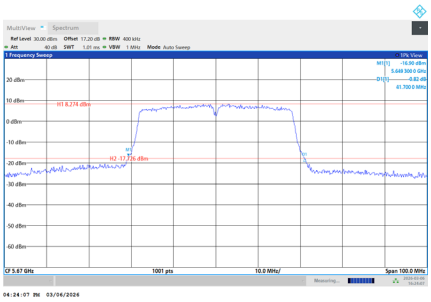
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
102	5510	41.800	36.972
110	5550	41.400	36.716
134	5670	41.700	36.741

CH102 **CH110** **CH134**

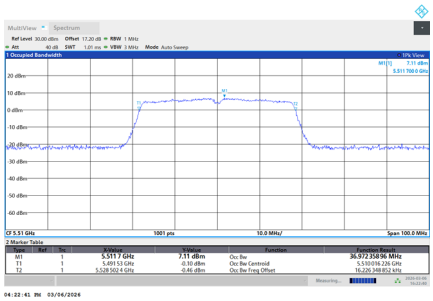
26 dB Bandwidth

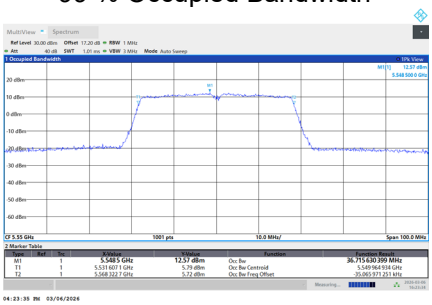


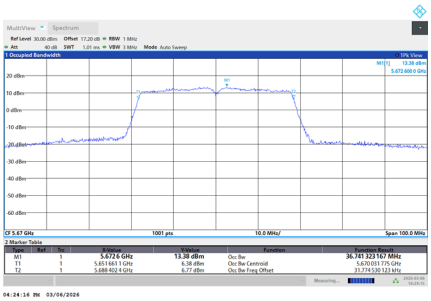




99 % Occupied Bandwidth



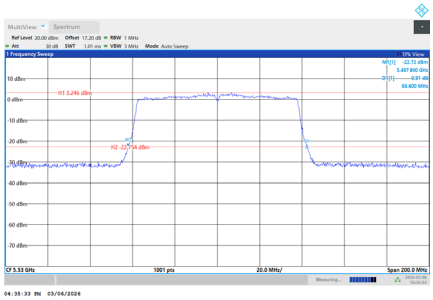




Test Mode	UNII-2C_TX AC(VHT80) Mode

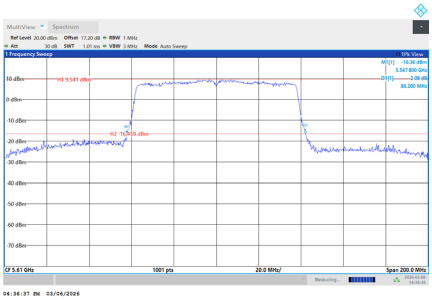
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
106	5530	84.600	77.127
122	5610	84.200	76.090

CH106

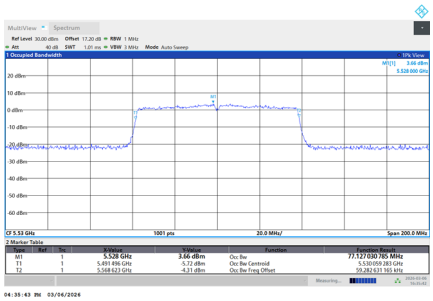


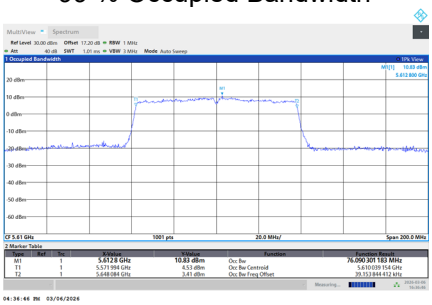
CH122

26 dB Bandwidth



99 % Occupied Bandwidth



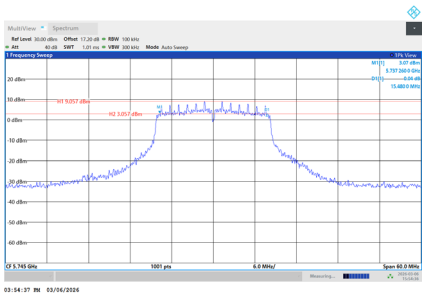


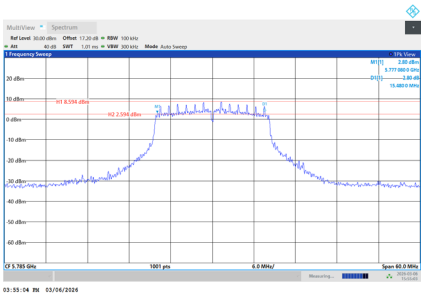
Test Mode	UNII-3_TX A Mode

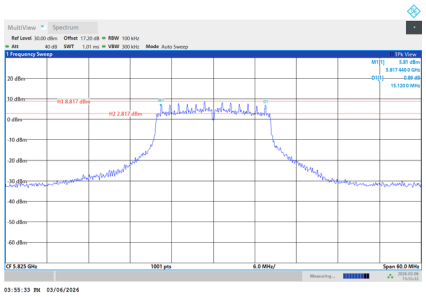
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	15.480	16.847	0.5	Pass
157	5785	15.480	16.831	0.5	Pass
165	5825	15.120	16.895	0.5	Pass

CH149 **CH157** **CH165**

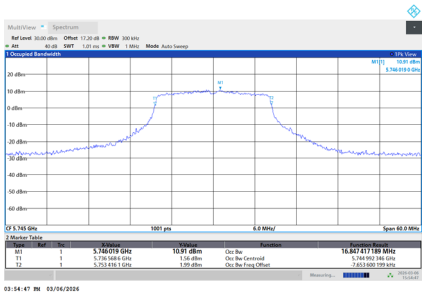
6 dB Bandwidth

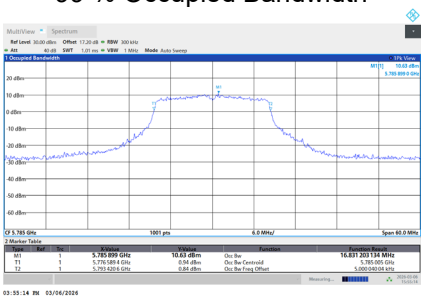


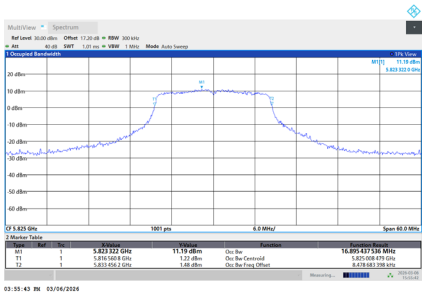




99 % Occupied Bandwidth





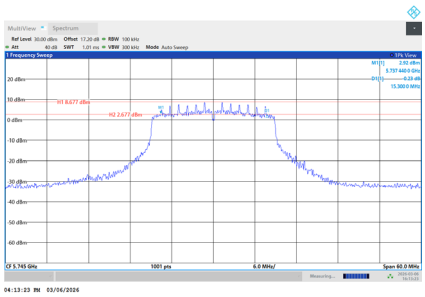


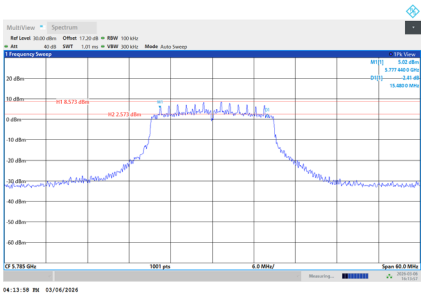
Test Mode	UNII-3_TX AC(VHT20) Mode

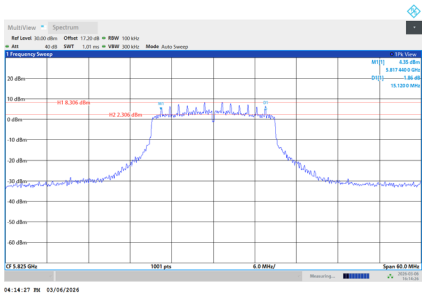
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	15.300	17.976	0.5	Pass
157	5785	15.480	17.974	0.5	Pass
165	5825	15.120	18.002	0.5	Pass

CH149 **CH157** **CH165**

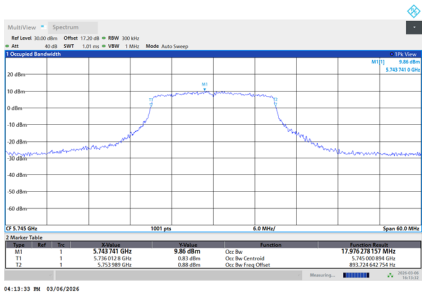
6 dB Bandwidth

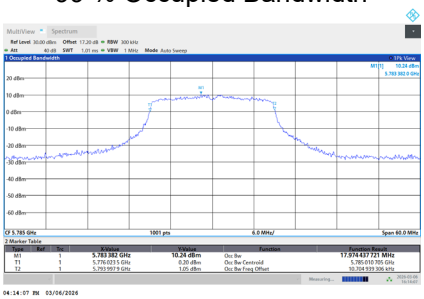


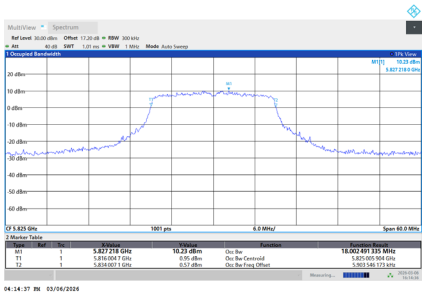




99 % Occupied Bandwidth







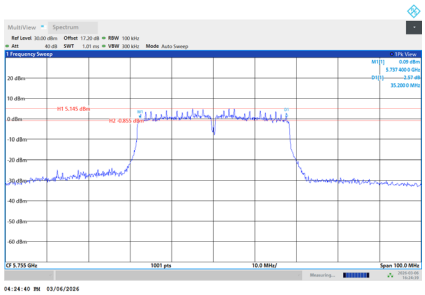
Test Mode	UNII-3_TX AC(VHT40) Mode

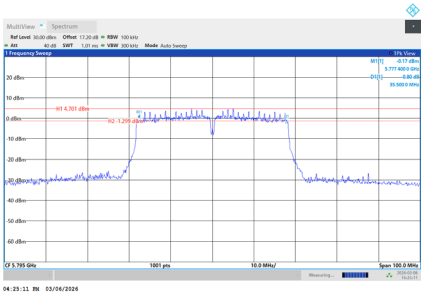
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
151	5755	35.200	36.749	0.5	Pass
159	5795	35.500	36.699	0.5	Pass

CH151

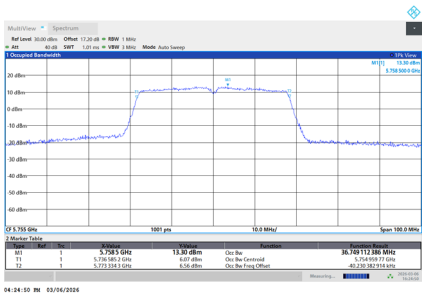
CH159

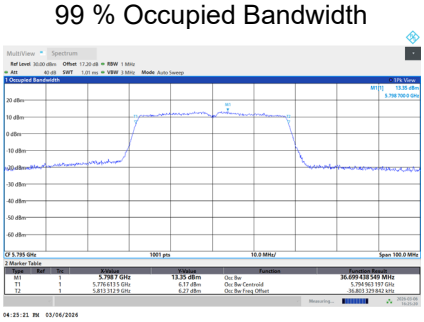
6 dB Bandwidth





99 % Occupied Bandwidth



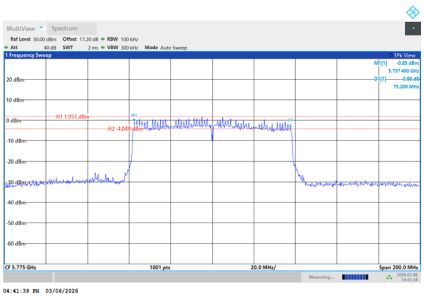


Test Mode	UNII-3_TX AC(VHT80) Mode

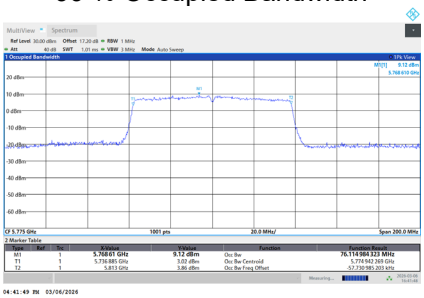
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
155	5775	75.200	76.115	0.5	Pass

CH155

6 dB Bandwidth



99 % Occupied Bandwidth



APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	UNII-1_TX A Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.09	0.00	14.09	23.98	0.2500	Pass
40	5200	14.48	0.00	14.48	23.98	0.2500	Pass
48	5240	14.18	0.00	14.18	23.98	0.2500	Pass

Test Mode	UNII-1_TX AC(VHT20) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	14.03	0.00	14.03	23.98	0.2500	Pass
40	5200	14.29	0.00	14.29	23.98	0.2500	Pass
48	5240	14.11	0.00	14.11	23.98	0.2500	Pass

Test Mode	UNII-1_TX AC(VHT40) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	13.28	0.16	13.44	23.98	0.2500	Pass
46	5230	14.37	0.16	14.53	23.98	0.2500	Pass

Test Mode	UNII-1_TX AC(VHT80) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	10.58	0.33	10.91	23.98	0.2500	Pass

Test Mode	UNII-2A_TX A Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	17.83	0.00	17.83	23.98	0.2500	Pass
60	5300	17.71	0.00	17.71	23.98	0.2500	Pass
64	5320	17.47	0.00	17.47	23.98	0.2500	Pass

Test Mode	UNII-2A_TX AC(VHT20) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
52	5260	17.35	0.00	17.35	23.98	0.2500	Pass
60	5300	17.23	0.00	17.23	23.98	0.2500	Pass
64	5320	17.04	0.00	17.04	23.98	0.2500	Pass

Test Mode	UNII-2A_TX AC(VHT40) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
54	5270	17.34	0.16	17.50	23.98	0.2500	Pass
62	5310	11.21	0.16	11.37	23.98	0.2500	Pass

Test Mode	UNII-2A_TX AC(VHT80) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
58	5290	9.43	0.33	9.76	23.98	0.2500	Pass

Test Mode	UNII-2C_TX A Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	15.64	0.00	15.64	23.98	0.2500	Pass
116	5580	17.88	0.00	17.88	23.98	0.2500	Pass
140	5700	15.63	0.00	15.63	23.98	0.2500	Pass

Test Mode	UNII-2C_TX AC(VHT20) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
100	5500	11.64	0.00	11.64	23.98	0.2500	Pass
116	5580	17.29	0.00	17.29	23.98	0.2500	Pass
140	5700	11.76	0.00	11.76	23.98	0.2500	Pass

Test Mode	UNII-2C_TX AC(VHT40) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
102	5510	11.28	0.16	11.44	23.98	0.2500	Pass
110	5550	17.32	0.16	17.48	23.98	0.2500	Pass
134	5670	17.12	0.16	17.28	23.98	0.2500	Pass

Test Mode	UNII-2C_TX AC(VHT80) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
106	5530	10.92	0.33	11.25	23.98	0.2500	Pass
122	5610	16.06	0.33	16.39	23.98	0.2500	Pass

Test Mode	UNII-3_TX A Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	17.79	0.00	17.79	30.00	1.0000	Pass
157	5785	17.63	0.00	17.63	30.00	1.0000	Pass
165	5825	17.58	0.00	17.58	30.00	1.0000	Pass

Test Mode	UNII-3_TX AC(VHT20) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	17.15	0.00	17.15	30.00	1.0000	Pass
157	5785	17.42	0.00	17.42	30.00	1.0000	Pass
165	5825	17.12	0.00	17.12	30.00	1.0000	Pass

Test Mode	UNII-3_TX AC(VHT40) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	17.24	0.16	17.40	30.00	1.0000	Pass
159	5795	17.42	0.16	17.58	30.00	1.0000	Pass

Test Mode	UNII-3_TX AC(VHT80) Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	16.38	0.33	16.71	30.00	1.0000	Pass

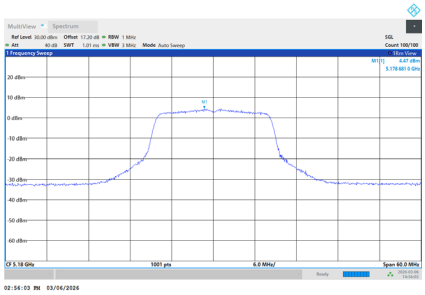
Note: Output power = Measure result + Cable loss

APPENDIX G - POWER SPECTRAL DENSITY

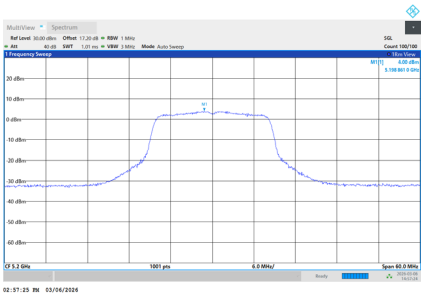
Test Mode	UNII-1_TX A Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	4.47	0.00	4.47	11.00	Pass
40	5200	4.00	0.00	4.00	11.00	Pass
48	5240	4.33	0.00	4.33	11.00	Pass

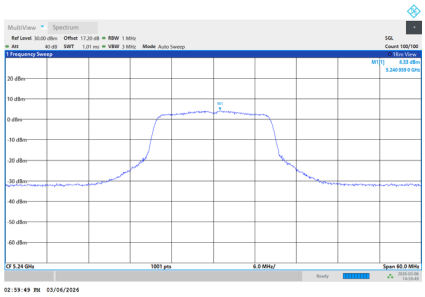
CH36



CH40



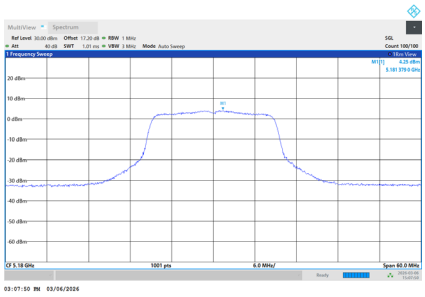
CH48



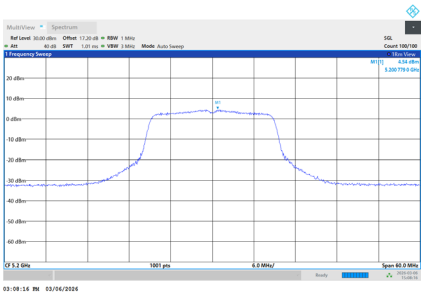
Test Mode	UNII-1_TX AC(VHT20) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	4.25	0.00	4.25	11.00	Pass
40	5200	4.54	0.00	4.54	11.00	Pass
48	5240	4.19	0.00	4.19	11.00	Pass

CH36



CH40



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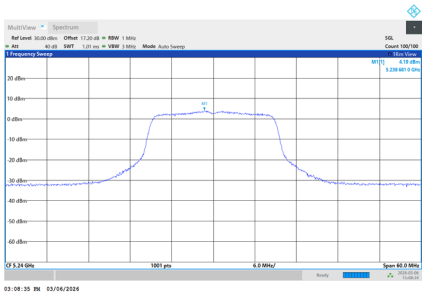
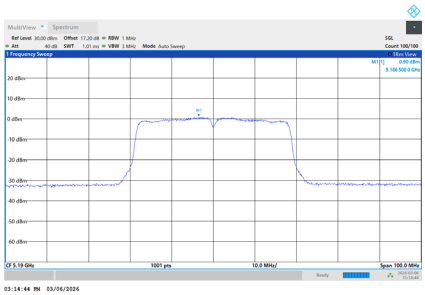


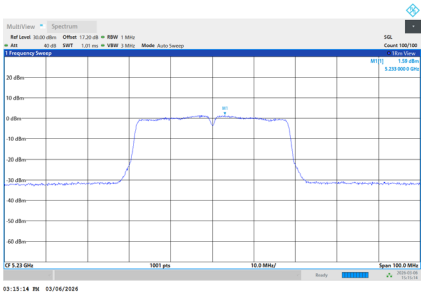
Test Mode	UNII-1_TX AC(VHT40) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	0.90	0.16	1.06	11.00	Pass
46	5230	1.59	0.16	1.75	11.00	Pass

CH38



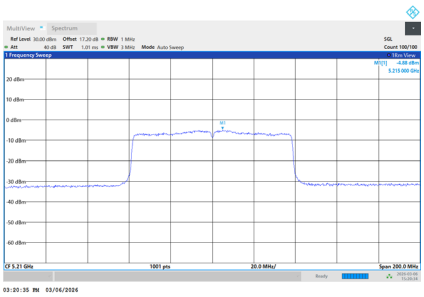
CH46



Test Mode	UNII-1_TX AC(VHT80) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-4.88	0.33	-4.55	11.00	Pass

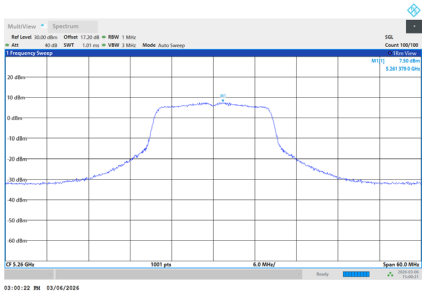
CH42



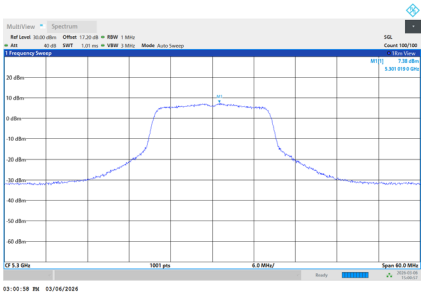
Test Mode	UNII-2A_TX A Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	7.50	0.00	7.50	11.00	Pass
60	5300	7.38	0.00	7.38	11.00	Pass
64	5320	6.74	0.00	6.74	11.00	Pass

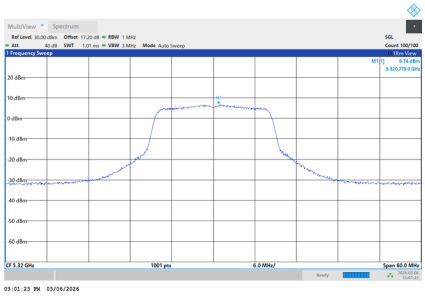
CH52



CH60



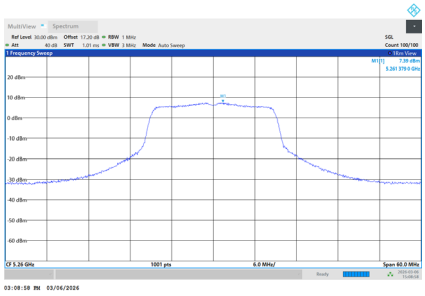
CH64



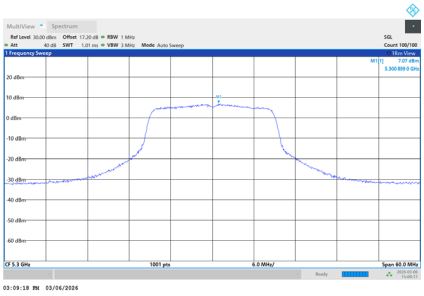
Test Mode	UNII-2A_TX AC(VHT20) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
52	5260	7.39	0.00	7.39	11.00	Pass
60	5300	7.07	0.00	7.07	11.00	Pass
64	5320	6.65	0.00	6.65	11.00	Pass

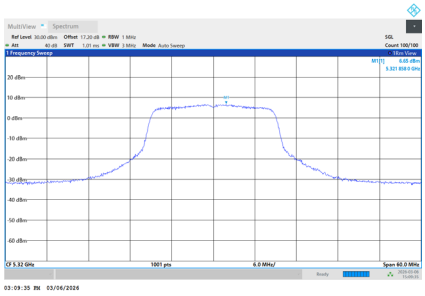
CH52



CH60



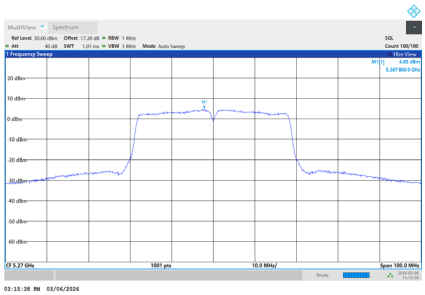
CH64



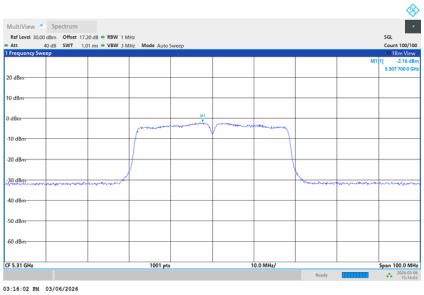
Test Mode	UNII-2A_TX AC(VHT40) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
54	5270	4.85	0.16	5.01	11.00	Pass
62	5310	-2.16	0.16	-2.00	11.00	Pass

CH54



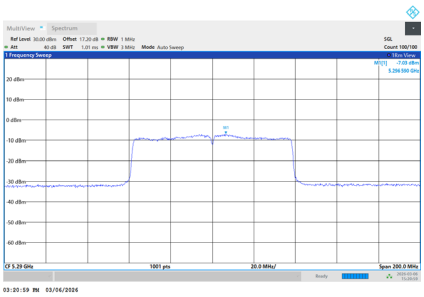
CH62



Test Mode	UNII-2A_TX AC(VHT80) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
58	5290	-7.03	0.33	-6.70	11.00	Pass

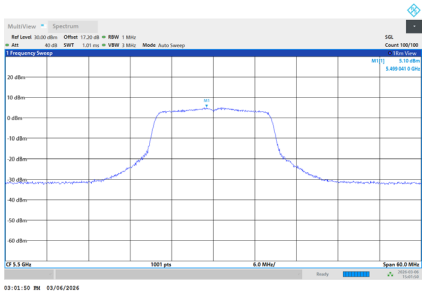
CH58



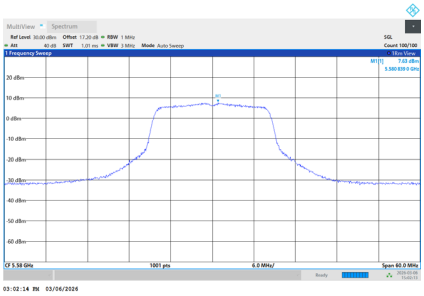
Test Mode	UNII-2C_TX A Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	5.10	0.00	5.10	11.00	Pass
116	5580	7.63	0.00	7.63	11.00	Pass
140	5700	8.02	0.00	8.02	11.00	Pass

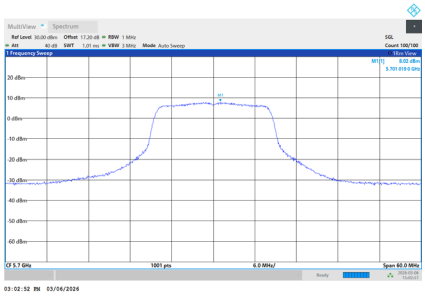
CH100



CH116



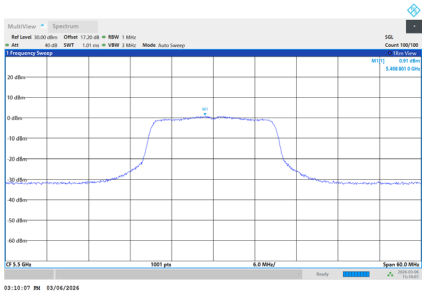
CH140



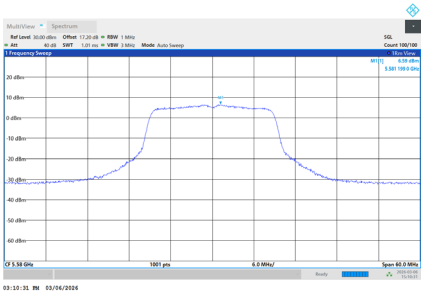
Test Mode	UNII-2C_TX AC(VHT20) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
100	5500	0.91	0.00	0.91	11.00	Pass
116	5580	6.59	0.00	6.59	11.00	Pass
140	5700	2.63	0.00	2.63	11.00	Pass

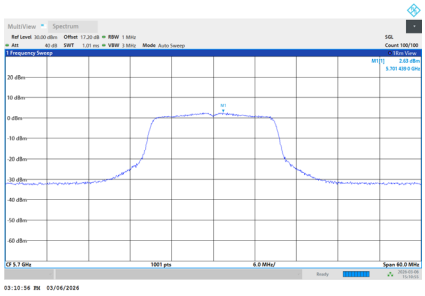
CH100



CH116



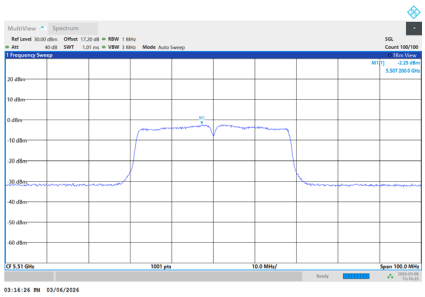
CH140



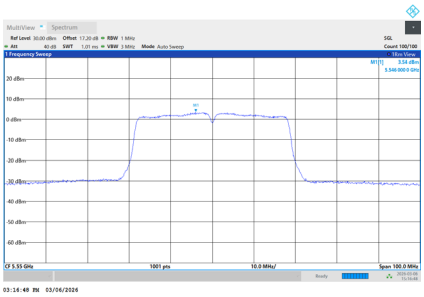
Test Mode	UNII-2C_TX AC(VHT40) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
102	5510	-2.25	0.16	-2.09	11.00	Pass
110	5550	3.54	0.16	3.70	11.00	Pass
134	5670	4.98	0.16	5.14	11.00	Pass

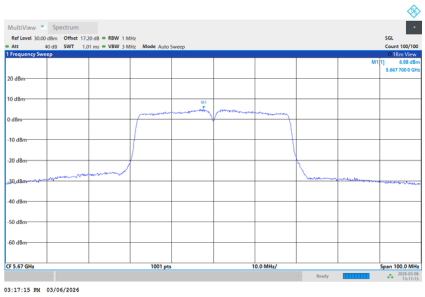
CH102



CH110



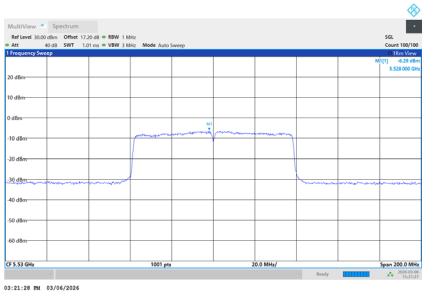
CH134



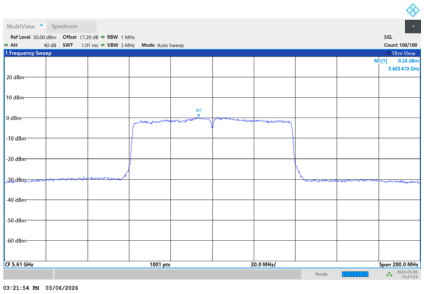
Test Mode	UNII-2C_TX AC(VHT80) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
106	5530	-6.29	0.33	-5.96	11.00	Pass
122	5610	0.24	0.33	0.57	11.00	Pass

CH106



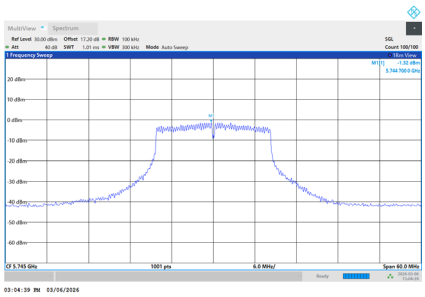
CH122



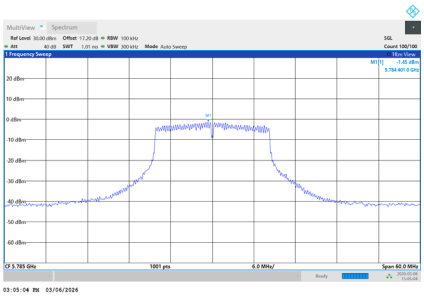
Test Mode	UNII-3_TX A Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/100 kHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-1.32	5.67	0.00	5.67	30.00	Pass
157	5785	-1.45	5.54	0.00	5.54	30.00	Pass
165	5825	-0.77	6.22	0.00	6.22	30.00	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100\ kHz} + 10 \times \log(500\ kHz / 100\ kHz) = PSD_{dBm/100\ kHz} + 6.99\ dB$							

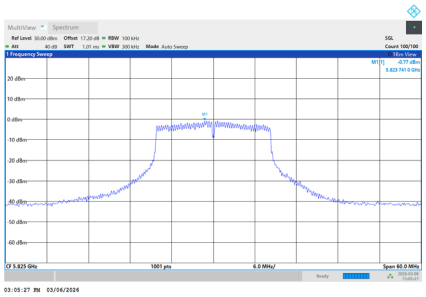
CH149



CH157



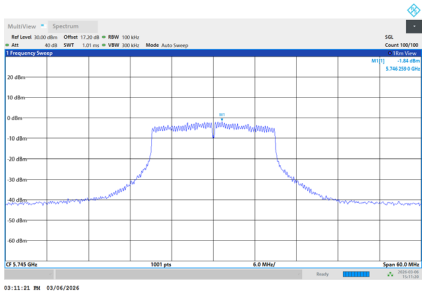
CH165



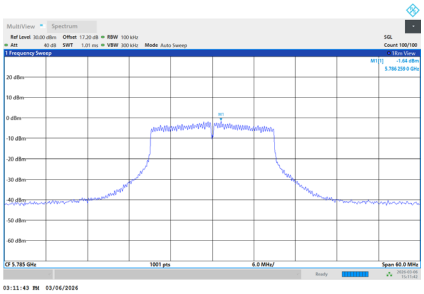
Test Mode	UNII-3_TX AC(VHT20) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/100 kHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	-1.84	5.15	0.00	5.15	30.00	Pass
157	5785	-1.64	5.35	0.00	5.35	30.00	Pass
165	5825	-0.70	6.29	0.00	6.29	30.00	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100\ kHz} + 10 \times \log(500\ kHz / 100\ kHz) = PSD_{dBm/100\ kHz} + 6.99\ dB$							

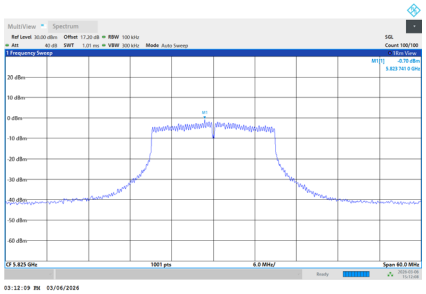
CH149



CH157



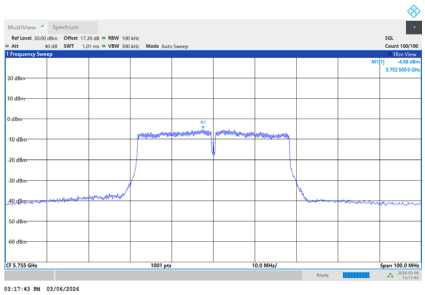
CH165



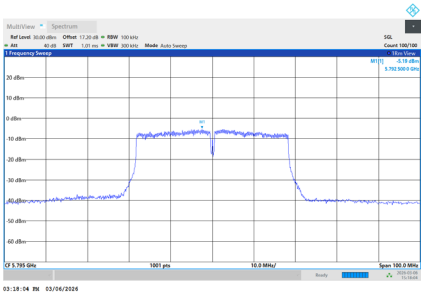
Test Mode	UNII-3_TX AC(VHT40) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/100 kHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	-4.98	2.01	0.16	2.17	30.00	Pass
159	5795	-5.19	1.80	0.16	1.96	30.00	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100\ kHz} + 10 \times \log(500\ kHz / 100\ kHz) = PSD_{dBm/100\ kHz} + 6.99\ dB$							

CH151



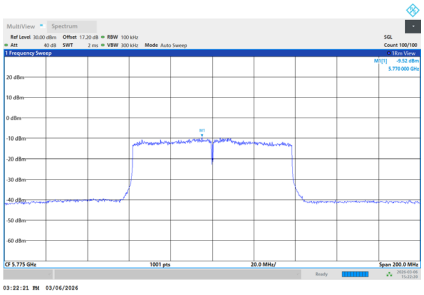
CH159



Test Mode	UNII-3_TX AC(VHT80) Mode

Channel	Frequency (MHz)	Power Spectral Density (dBm/100 kHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor (dB)	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	-9.52	-2.53	0.33	-2.20	30.00	Pass
NOTE: $PSD_{dBm/500\ kHz} = PSD_{dBm/100\ kHz} + 10 \times \log(500\ kHz / 100\ kHz) = PSD_{dBm/100\ kHz} + 6.99\ dB$							

CH155



APPENDIX H - FREQUENCY STABILITY

Test Mode	UNII-1

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5180.0000
138.00	5179.9900
120.00	5179.9900
102.00	5179.9900
Maximum Deviation (MHz)	-0.0100
Maximum Deviation (ppm)	-1.9305

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5180.0000
-10.00	5179.9900
-5.00	5179.9900
5.00	5179.9900
15.00	5180.0000
25.00	5179.9900
35.00	5180.0000
45.00	5179.9900
55.00	5179.9900
Maximum Deviation (MHz)	-0.0100
Maximum Deviation (ppm)	-1.9305

Test Mode	UNII-2A

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5260.0000
138.00	5259.9900
120.00	5259.9900
102.00	5259.9900
Maximum Deviation (MHz)	-0.0100
Maximum Deviation (ppm)	-1.9011

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5260.0000
-10.00	5259.9900
-5.00	5259.9900
5.00	5259.9900
15.00	5259.9900
25.00	5259.9900
35.00	5259.9900
45.00	5259.9800
55.00	5259.9900
Maximum Deviation (MHz)	-0.0200
Maximum Deviation (ppm)	-3.8023

Test Mode	UNII-2C

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5500.0000
138.00	5499.9800
120.00	5500.0000
102.00	5499.9900
Maximum Deviation (MHz)	-0.0200
Maximum Deviation (ppm)	-3.6364

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5500.0000
-10.00	5499.9900
-5.00	5499.9900
5.00	5499.9900
15.00	5500.0000
25.00	5500.0000
35.00	5499.9900
45.00	5499.9900
55.00	5499.9800
Maximum Deviation (MHz)	-0.0200
Maximum Deviation (ppm)	-3.6364

Test Mode	UNII-3

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)
Center Frequency	5745.0000
138.00	5744.9900
120.00	5744.9900
102.00	5744.9900
Maximum Deviation (MHz)	-0.0100
Maximum Deviation (ppm)	-1.7406

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
Center Frequency	5745.0000
-10.00	5744.9900
-5.00	5744.9900
5.00	5744.9900
15.00	5744.9900
25.00	5744.9900
35.00	5744.9900
45.00	5744.9900
55.00	5744.9900
Maximum Deviation (MHz)	-0.0100
Maximum Deviation (ppm)	-1.7406

End of Test Report