

Appendix

Report No.:	CISRR24112214402
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Frequency Stability

Test Result

Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11a	149	0	5745.0	5744.750242	-43.47	Within authorized band	PASS
			1	5745.0	5745.247142	43.02		PASS
		157	0	5785.0	5785.244708	42.3		PASS
			1	5785.0	5785.246592	42.63		PASS
		165	0	5825.0	5825.248425	42.65		PASS
			1	5825.0	5825.249358	42.81		PASS
	IEEE 802.11n_20	149	0	5745.0	5744.750225	-43.48		PASS
			1	5745.0	5745.246958	42.99		PASS
		157	0	5785.0	5784.751775	-42.91		PASS
			1	5785.0	5785.248142	42.89		PASS
		165	0	5825.0	5824.752725	-42.45		PASS
			1	5825.0	5824.754492	-42.15		PASS
	IEEE 802.11n_40	151	0	5755.0	5754.755958	-42.41		PASS
			1	5755.0	5754.760642	-41.59		PASS
		159	0	5795.0	5794.763292	-40.85		PASS
			1	5795.0	5794.760475	-41.33		PASS
	IEEE 802.11ac_20	149	0	5745.0	5744.753592	-42.89		PASS
			1	5745.0	5744.755892	-42.49		PASS
		157	0	5785.0	5785.243892	42.16		PASS
			1	5785.0	5784.760358	-41.42		PASS
		165	0	5825.0	5824.753392	-42.34		PASS
			1	5825.0	5825.247075	42.42		PASS
	IEEE 802.11ac_40	151	0	5755.0	5754.762192	-41.32		PASS
			1	5755.0	5754.760275	-41.66		PASS
		159	0	5795.0	5794.755792	-42.14		PASS
			1	5795.0	5794.760042	-41.41		PASS
	IEEE 802.11ac_80	155	0	5775.0	5775.235825	40.84		PASS
			1	5775.0	5775.242842	42.05		PASS

2) Conducted Output Power

Conducted output power

Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	14.253	14.817	≤30	PASS
	157	13.678	14.290	≤30	PASS
	165	14.861	14.519	≤30	PASS
IEEE 802.11n_20	149	14.475	14.980	≤30	PASS
	157	15.199	16.068	≤30	PASS
	165	15.465	14.350	≤30	PASS
IEEE 802.11n_40	151	13.601	13.163	≤30	PASS
	159	15.333	13.492	≤30	PASS
IEEE 802.11ac_20	149	14.064	13.654	≤30	PASS
	157	13.402	14.719	≤30	PASS
	165	14.651	14.952	≤30	PASS
IEEE 802.11ac_40	151	13.104	13.252	≤30	PASS
	159	14.237	13.680	≤30	PASS
IEEE 802.11ac_80	155	12.694	14.150	≤30	PASS

MIMO

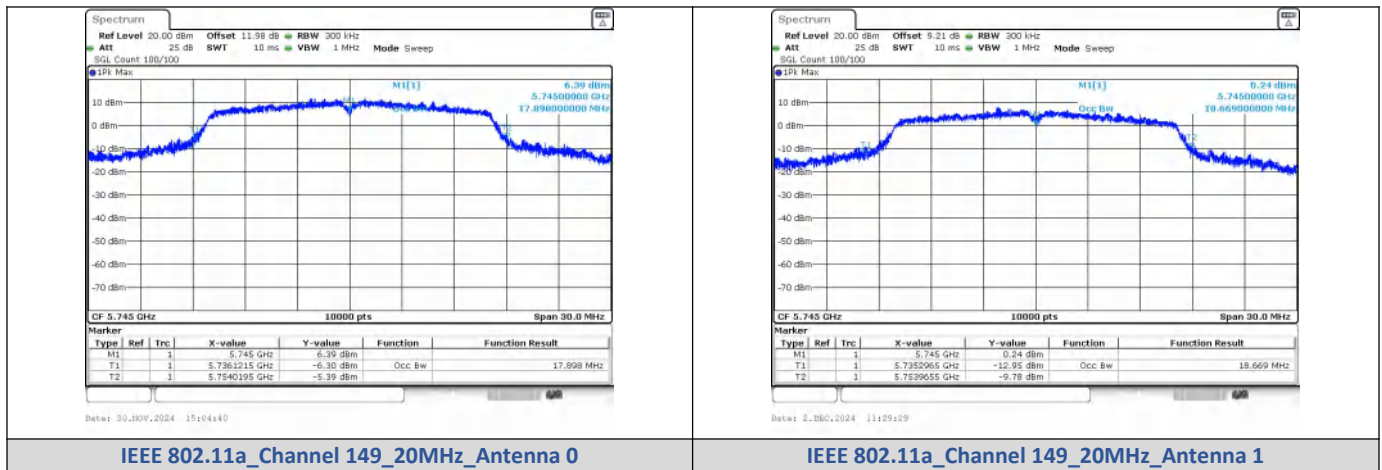
Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	MIMO (dBm)	Limit (dBm)	Result
IEEE 802.11n_20	149	14.475	14.980	17.75	≤30	PASS
	157	15.199	16.068	18.67	≤30	PASS
	165	15.465	14.350	17.95	≤30	PASS
IEEE 802.11n_40	151	13.601	13.163	16.40	≤30	PASS
	159	15.333	13.492	17.52	≤30	PASS
IEEE 802.11ac_20	149	14.064	13.654	16.87	≤30	PASS
	157	13.402	14.719	17.12	≤30	PASS
	165	14.651	14.952	17.81	≤30	PASS
IEEE 802.11ac_40	151	13.104	13.252	16.19	≤30	PASS
	159	14.237	13.680	16.98	≤30	PASS
IEEE 802.11ac_80	155	12.694	14.150	16.49	≤30	PASS

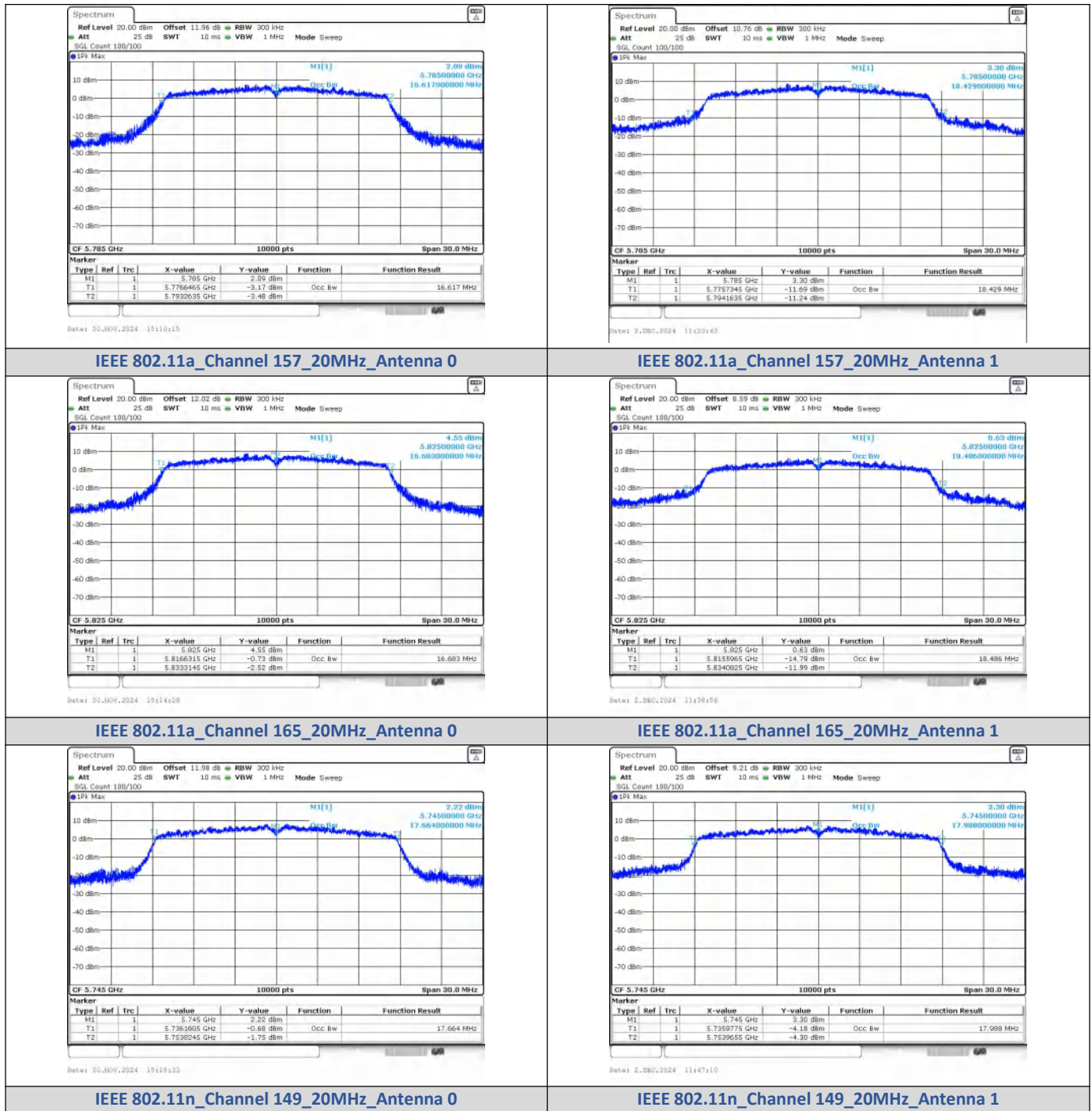
3) 99% Bandwidth

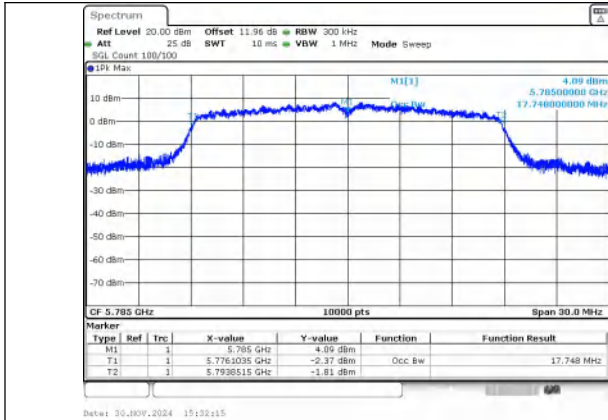
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	0	5745	17.898
		1	5745	18.669
	157	0	5785	16.617
		1	5785	18.429
	165	0	5825	16.683
		1	5825	18.486
IEEE 802.11n_20	149	0	5745	17.664
		1	5745	17.988
	157	0	5785	17.748
		1	5785	18.558
	165	0	5825	17.811
		1	5825	17.733
IEEE 802.11n_40	151	0	5755	36.138
		1	5755	36.204
	159	0	5795	37.530
		1	5795	36.048
IEEE 802.11ac_20	149	0	5745	17.676
		1	5745	17.688
	157	0	5785	17.643
		1	5785	17.796
	165	0	5825	17.820
		1	5825	17.811
IEEE 802.11ac_40	151	0	5755	36.060
		1	5755	36.198
	159	0	5795	36.516
		1	5795	36.084
IEEE 802.11ac_80	155	0	5775	76.176
		1	5775	79.548

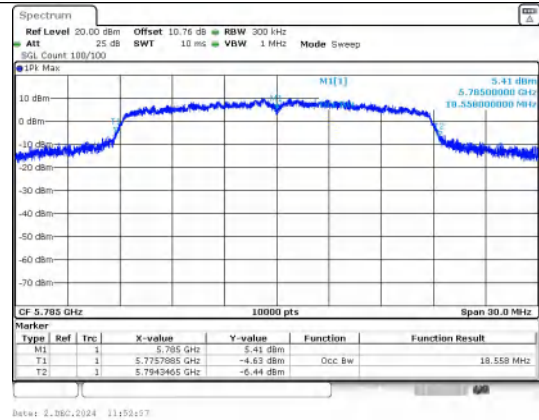
Test Graphs



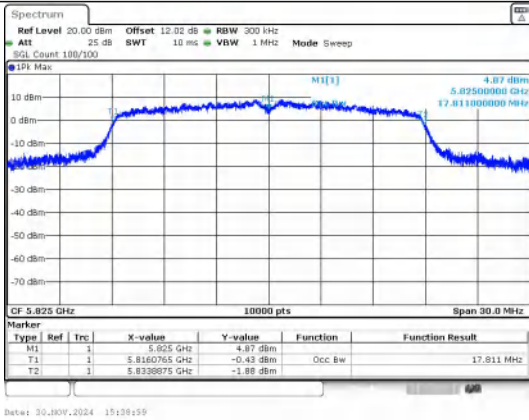




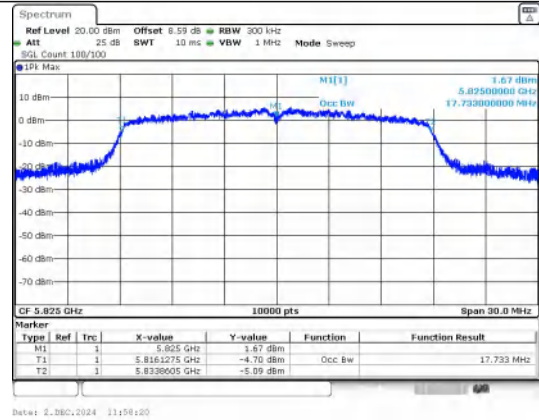
IEEE 802.11n_Channel 157_20MHz_Antenna 0



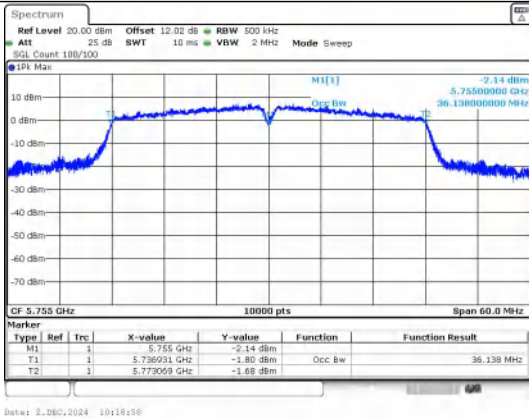
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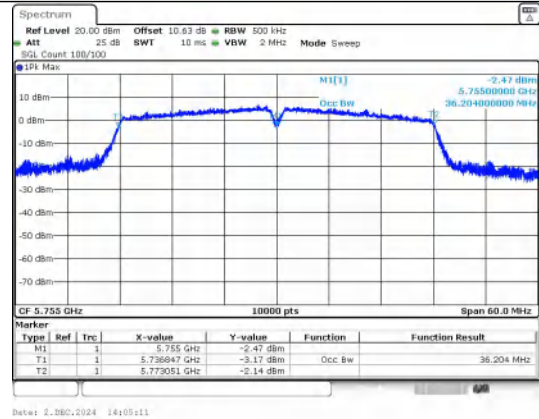
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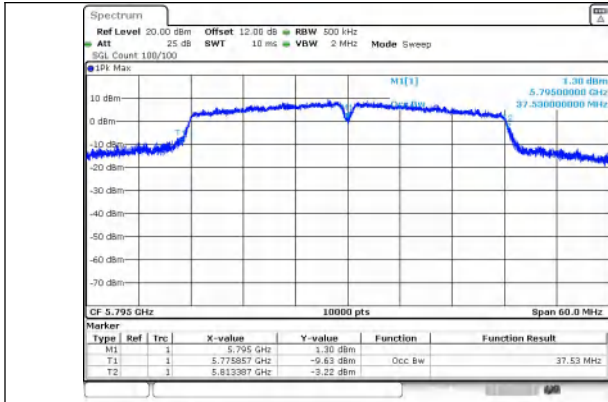
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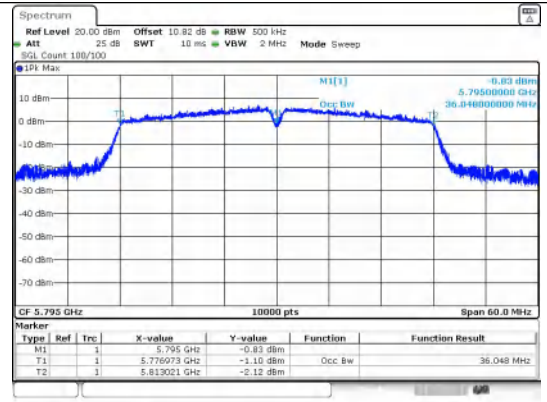
IEEE 802.11n_Channel 151_40MHz_Antenna 0



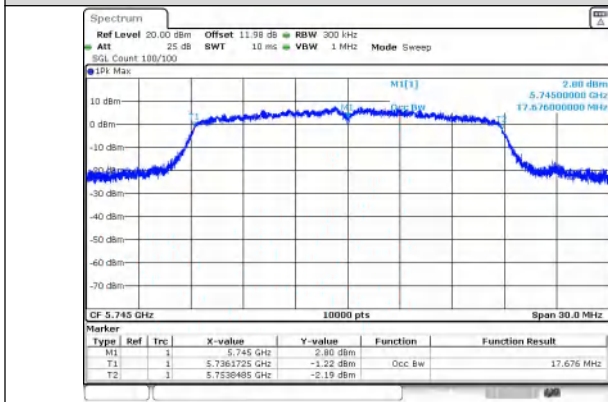
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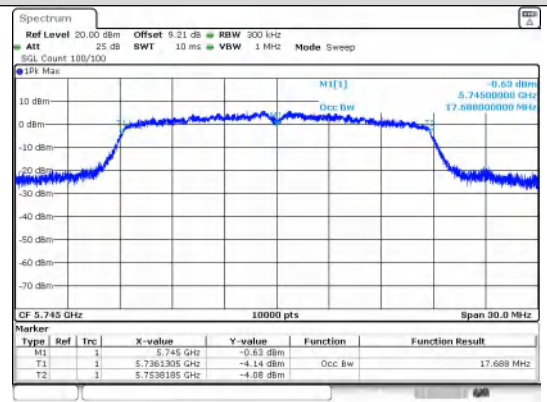
IEEE 802.11n_Channel 159_40MHz_Antenna 0



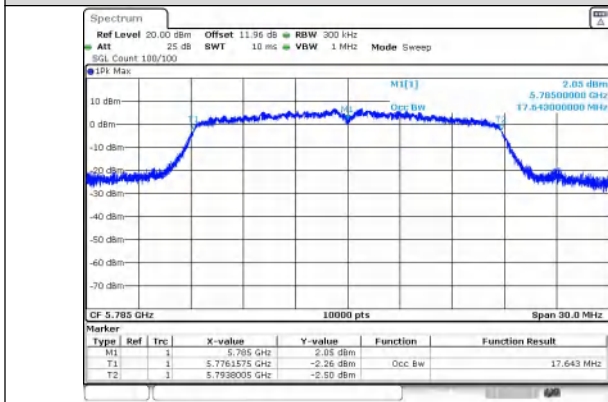
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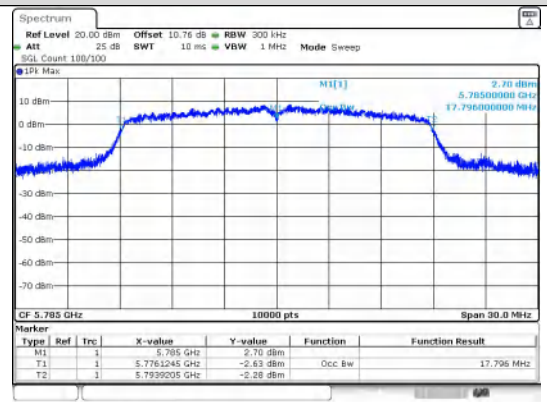
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



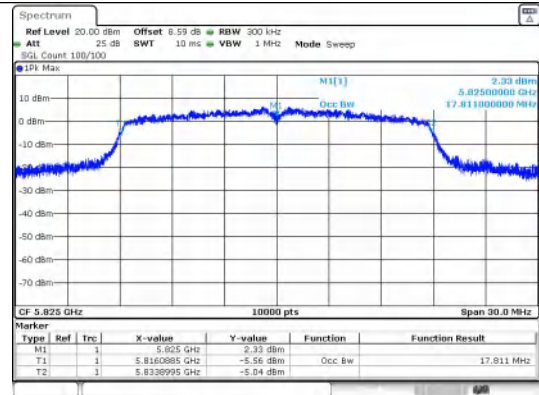
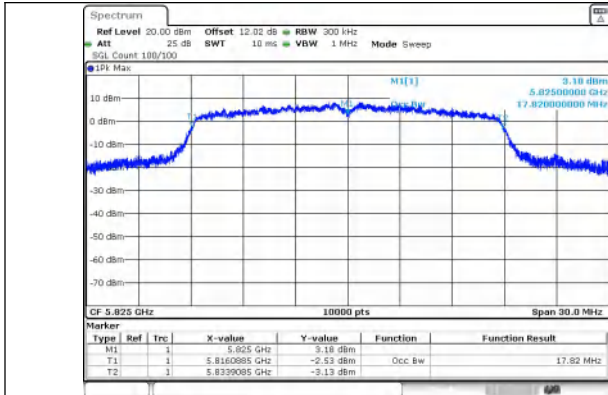
IEEE 802.11ac_Channel 149_20MHz_Antenna 1



IEEE 802.11ac_Channel 157_20MHz_Antenna 0

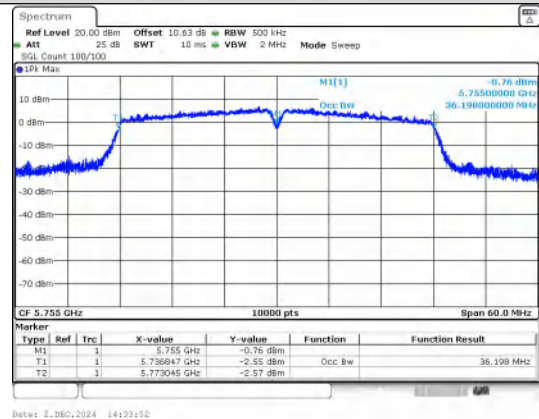
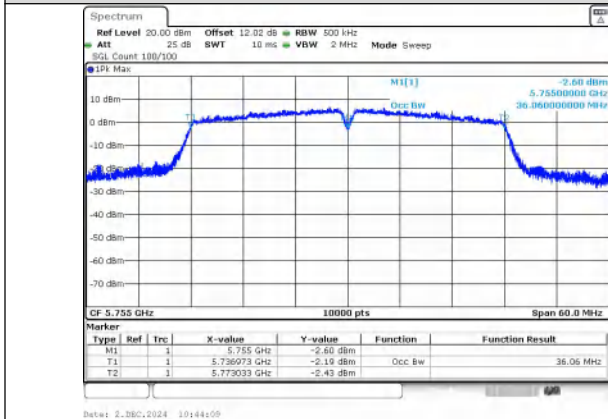


IEEE 802.11ac_Channel 157_20MHz_Antenna 1



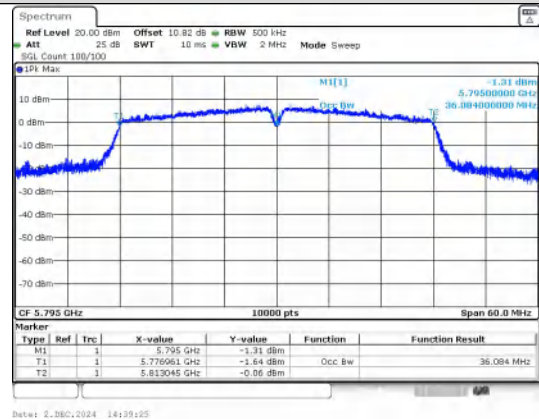
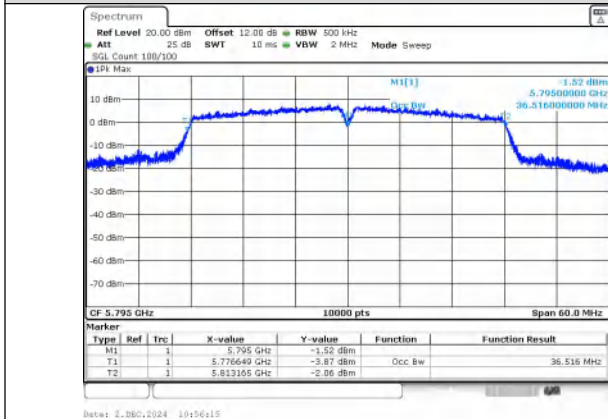
IEEE 802.11ac_Channel 165_20MHz_Antenna 0

IEEE 802.11ac_Channel 165_20MHz_Antenna 1



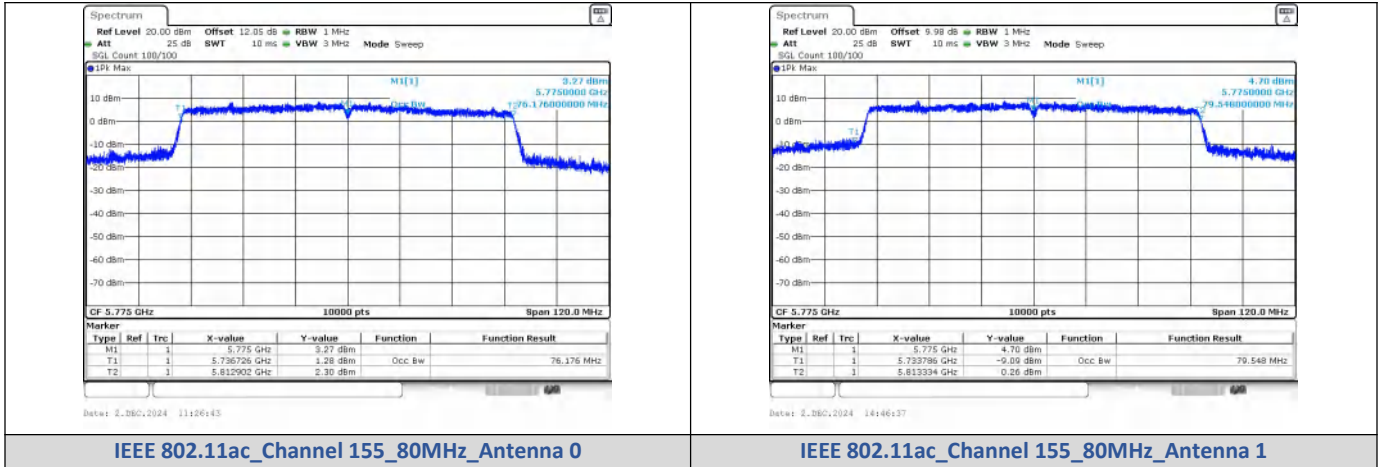
IEEE 802.11ac_Channel 151_40MHz_Antenna 0

IEEE 802.11ac_Channel 151_40MHz_Antenna 1



IEEE 802.11ac_Channel 159_40MHz_Antenna 0

IEEE 802.11ac_Channel 159_40MHz_Antenna 1

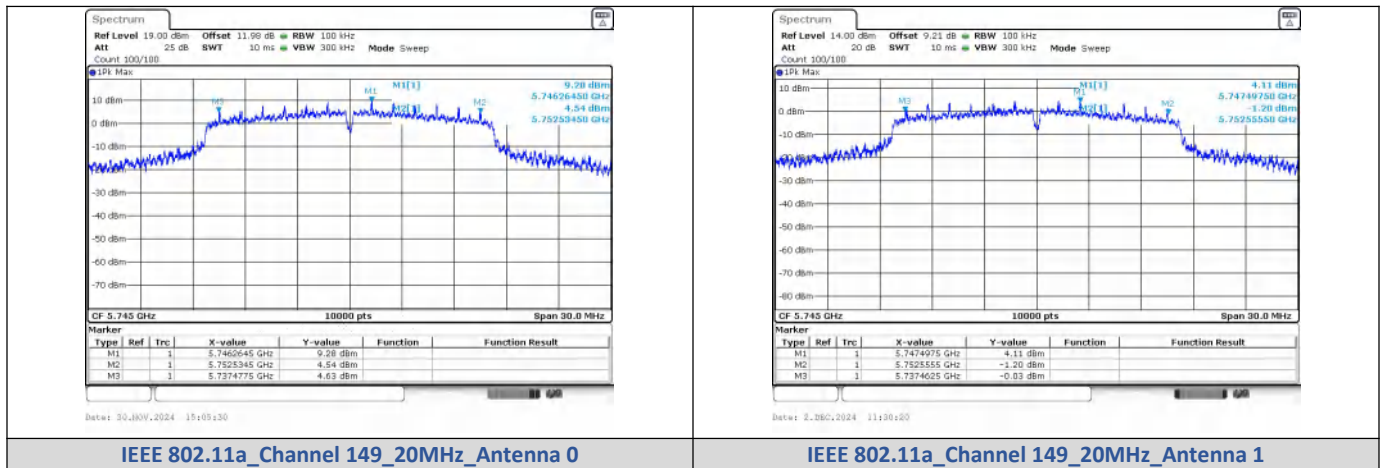


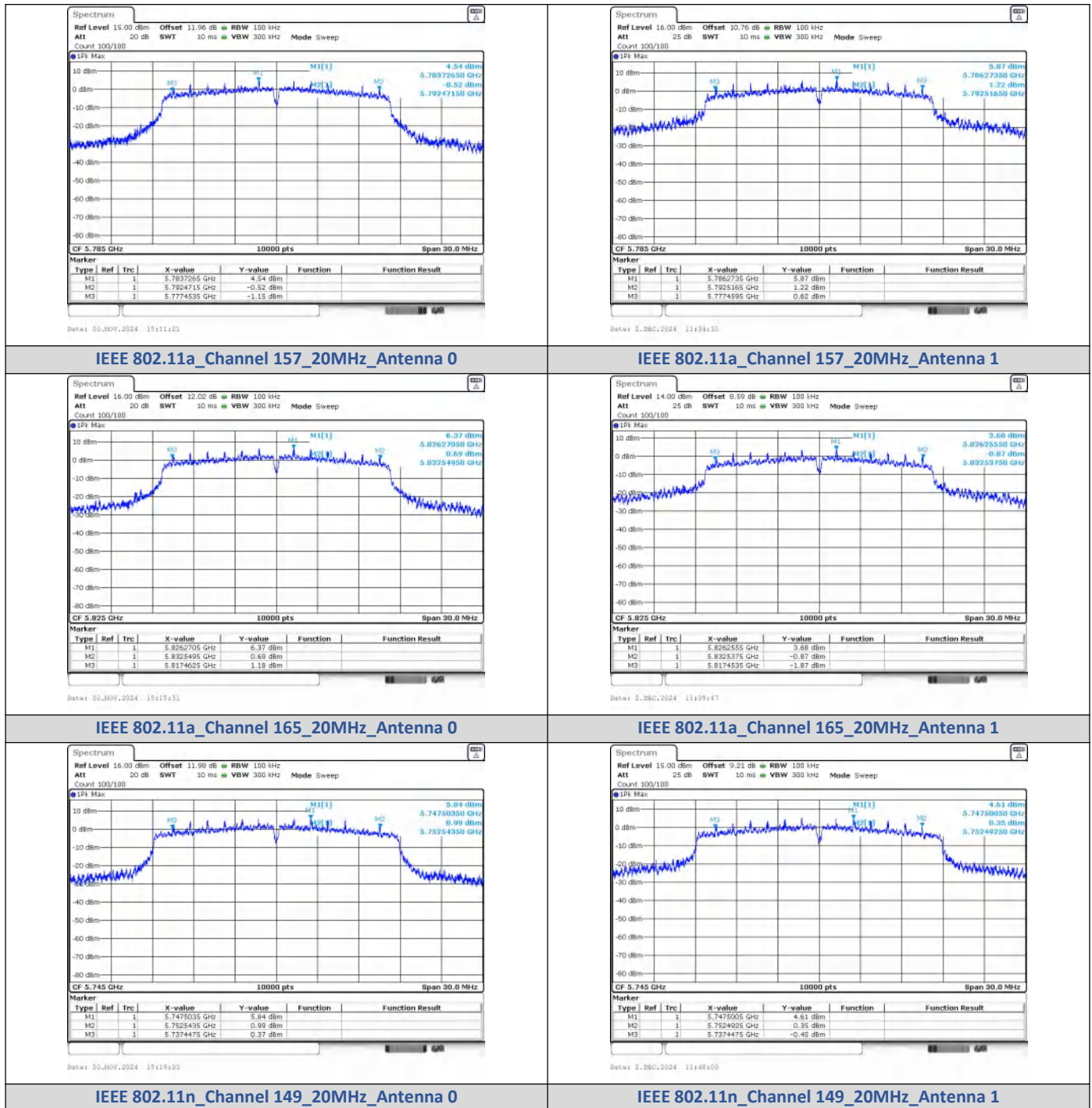
4) 6dB Bandwidth

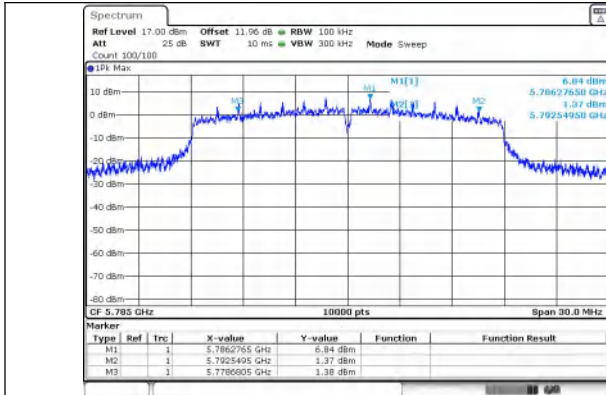
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	15.05	≥0.5	PASS
		1	5745	15.10		PASS
	157	0	5785	15.02		PASS
		1	5785	15.06		PASS
	165	0	5825	15.09		PASS
		1	5825	15.09		PASS
IEEE 802.11n_20	149	0	5745	15.09		PASS
		1	5745	15.04		PASS
	157	0	5785	13.87		PASS
		1	5785	15.08		PASS
	165	0	5825	15.07		PASS
		1	5825	15.08		PASS
IEEE 802.11n_40	151	0	5755	35.04		PASS
		1	5755	35.03		PASS
	159	0	5795	35.03		PASS
		1	5795	35.03		PASS
IEEE 802.11ac_20	149	0	5745	15.05		PASS
		1	5745	15.08		PASS
	157	0	5785	14.89		PASS
		1	5785	15.10		PASS
	165	0	5825	15.08		PASS
		1	5825	15.04		PASS
IEEE 802.11ac_40	151	0	5755	35.04		PASS
		1	5755	35.06		PASS
	159	0	5795	35.06		PASS
		1	5795	35.05		PASS
IEEE 802.11ac_80	155	0	5775	75.07		PASS
		1	5775	75.11		PASS

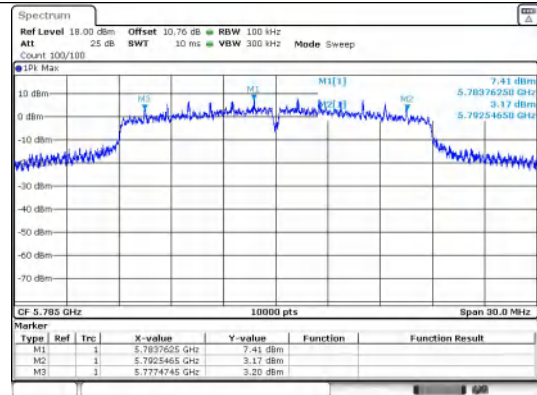
Test Graphs



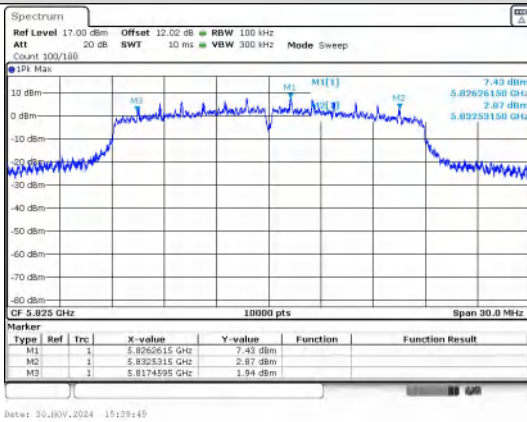




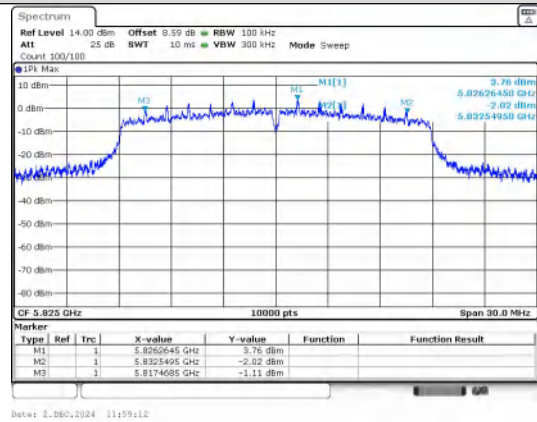
IEEE 802.11n_Channel 157_20MHz_Antenna 0



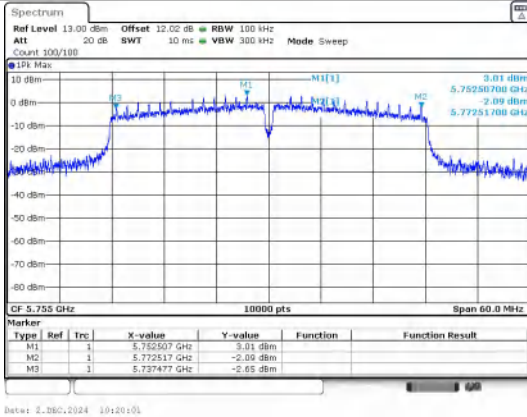
IEEE 802.11n_Channel 157_20MHz_Antenna 1



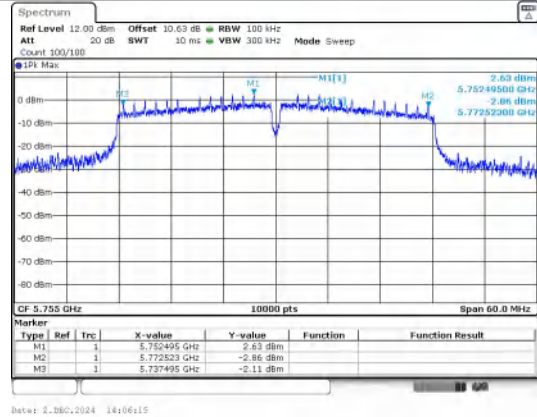
IEEE 802.11n_Channel 165_20MHz_Antenna 0



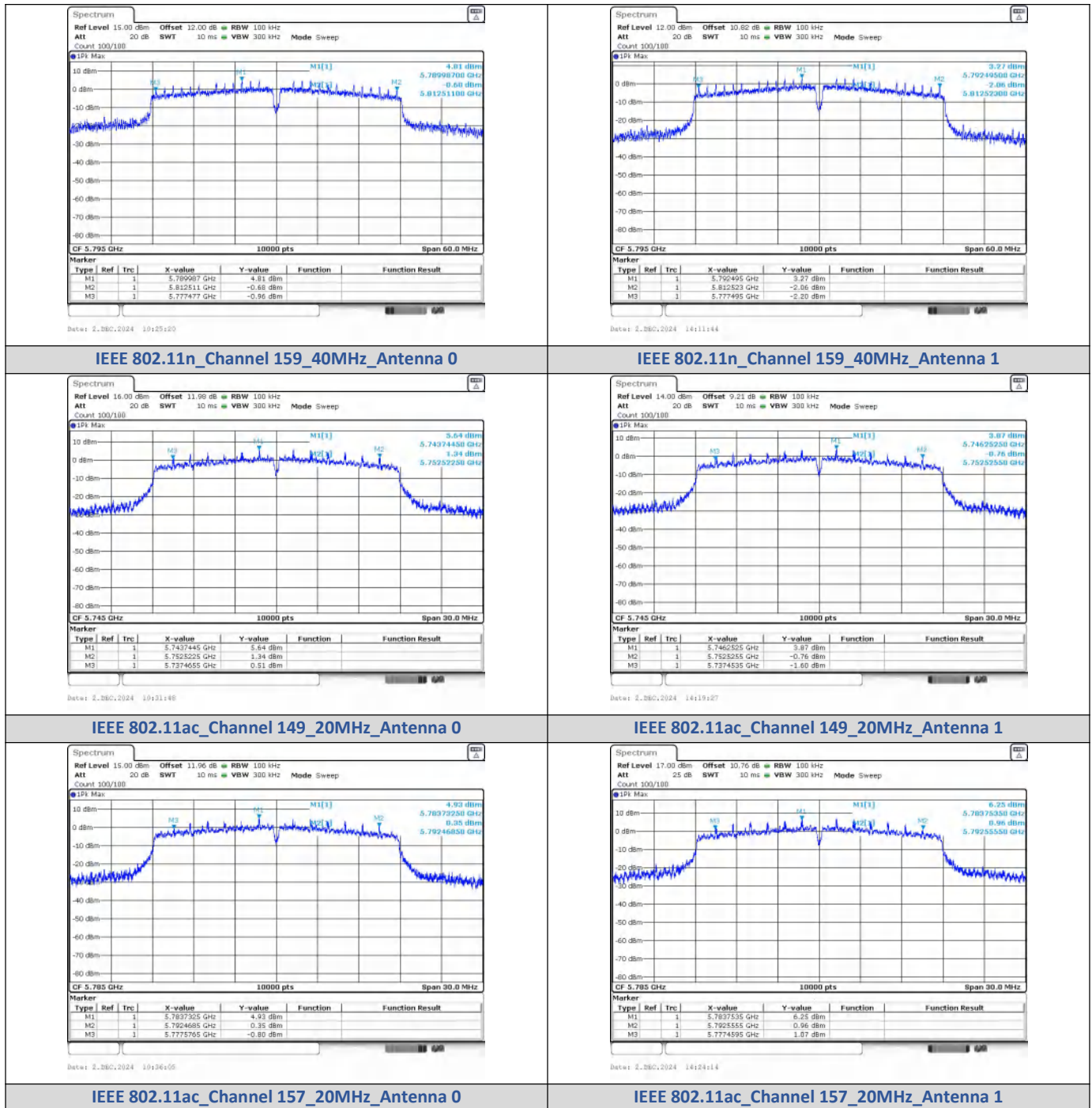
IEEE 802.11n_Channel 165_20MHz_Antenna 1

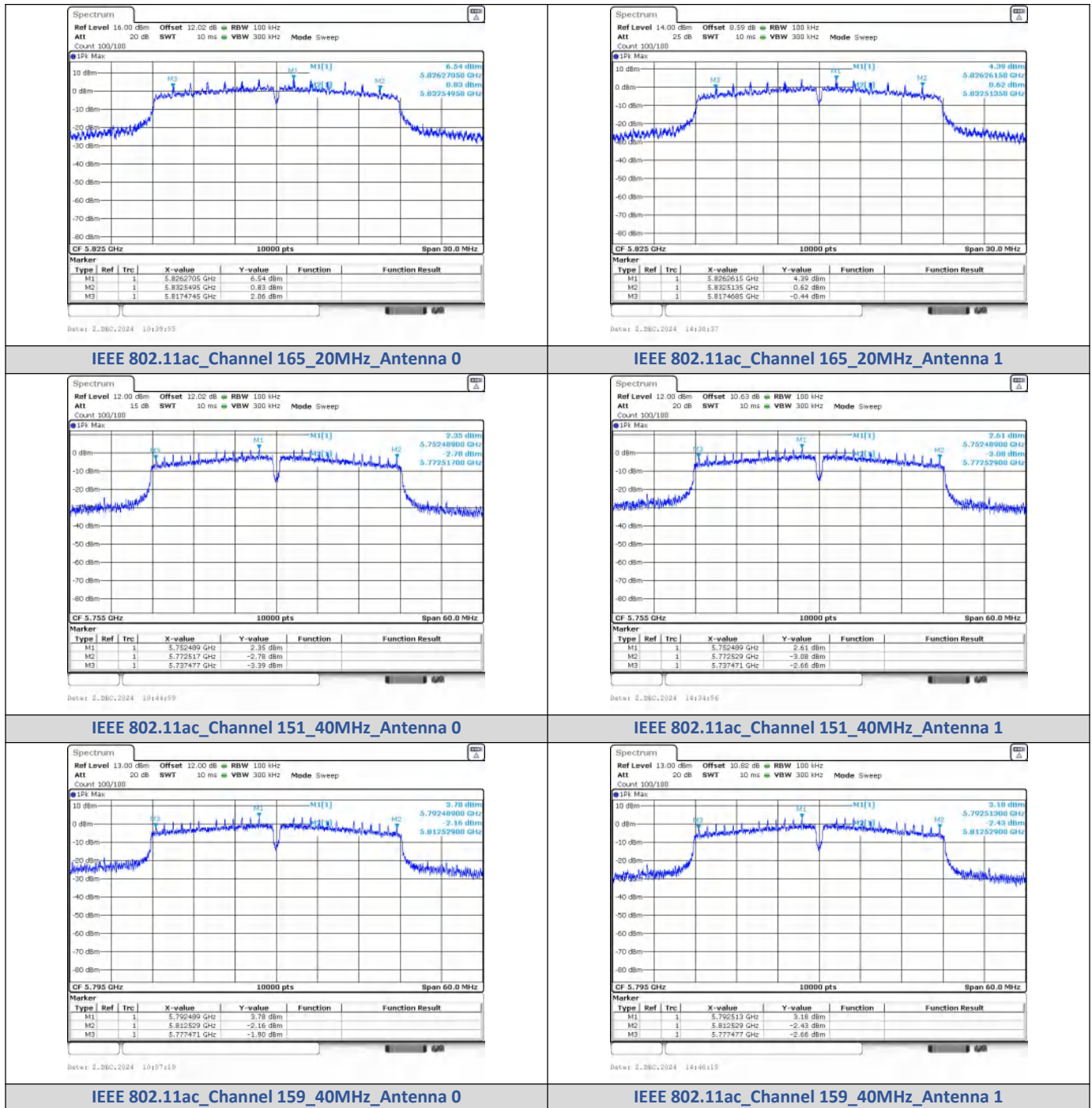


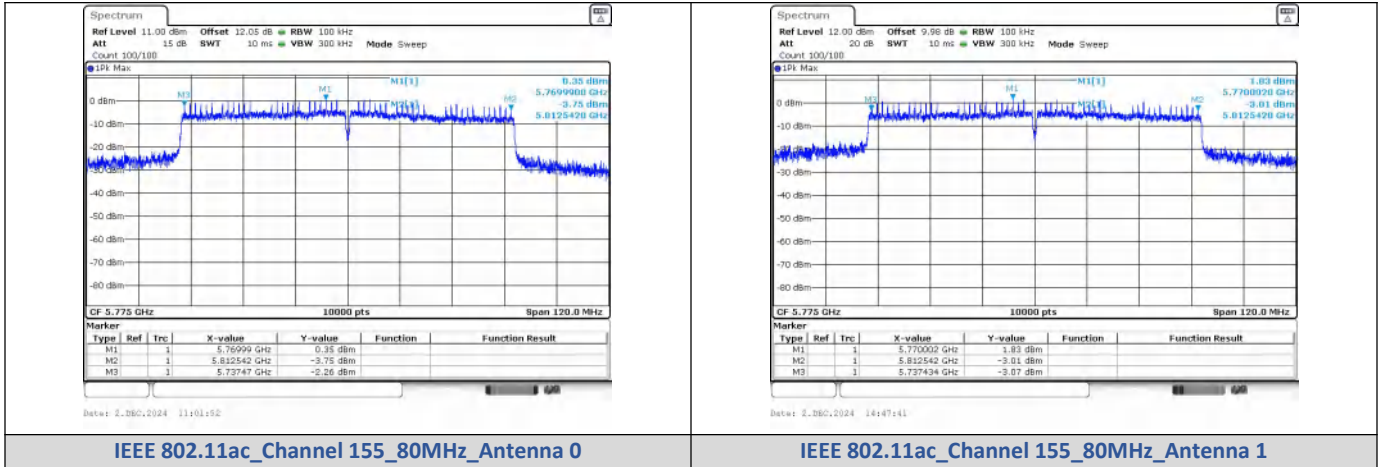
IEEE 802.11n_Channel 151_40MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 1





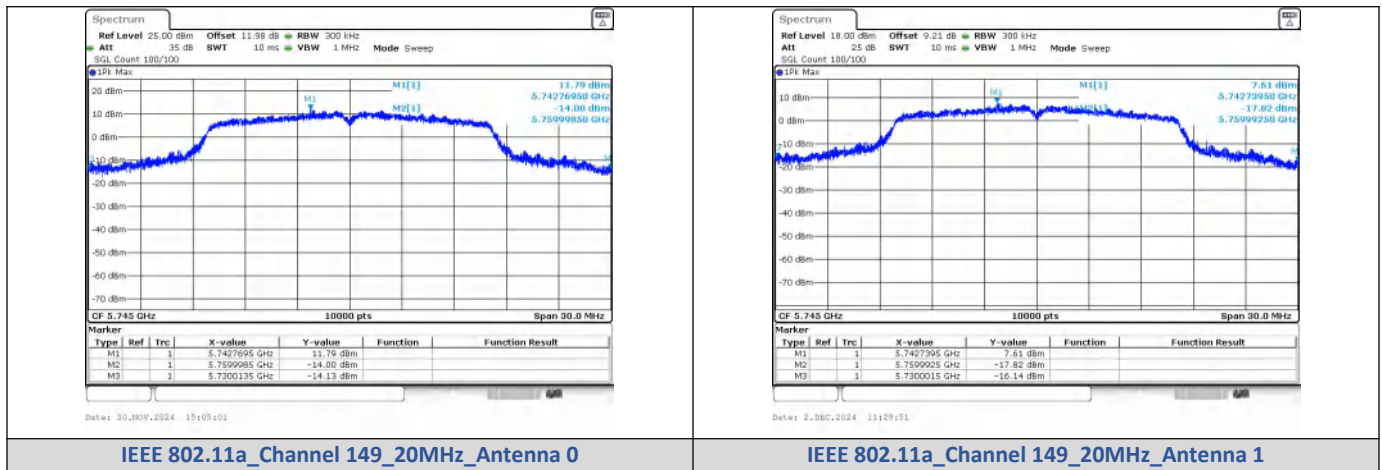


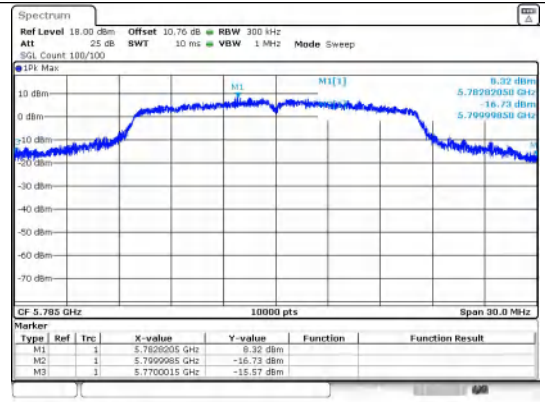
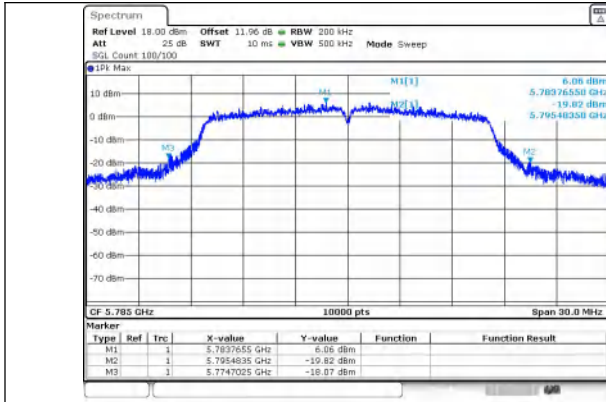
5) 26dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	29.99	1.0
		1	5745	29.99	1.0
	157	0	5785	20.78	1.1
		1	5785	30.00	1.0
	165	0	5825	23.46	1.09
		1	5825	30.00	1.0
IEEE 802.11n_20	149	0	5745	25.23	1.19
		1	5745	29.98	1.0
	157	0	5785	29.85	1.01
		1	5785	29.99	1.0
	165	0	5825	29.23	1.03
		1	5825	28.62	1.05
IEEE 802.11n_40	151	0	5755	53.45	1.04
		1	5755	55.48	1.01
	159	0	5795	60.00	1.03
		1	5795	50.09	1.11
IEEE 802.11ac_20	149	0	5745	24.17	1.06
		1	5745	26.38	1.14
	157	0	5785	22.49	1.13
		1	5785	29.73	1.01
	165	0	5825	29.43	1.02
		1	5825	29.84	1.01
IEEE 802.11ac_40	151	0	5755	50.80	1.0
		1	5755	54.04	1.02
	159	0	5795	59.87	1.03
		1	5795	51.45	0.99
IEEE 802.11ac_80	155	0	5775	119.83	1.02
		1	5775	119.98	1.02

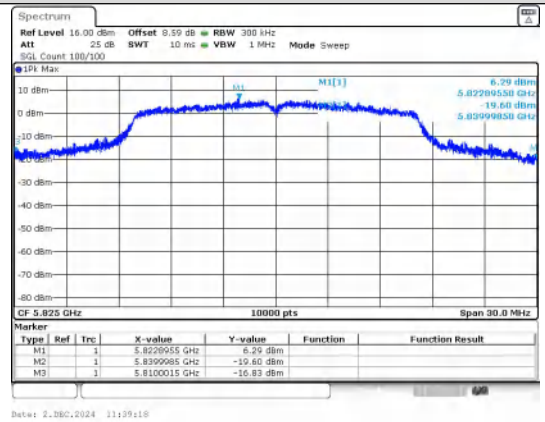
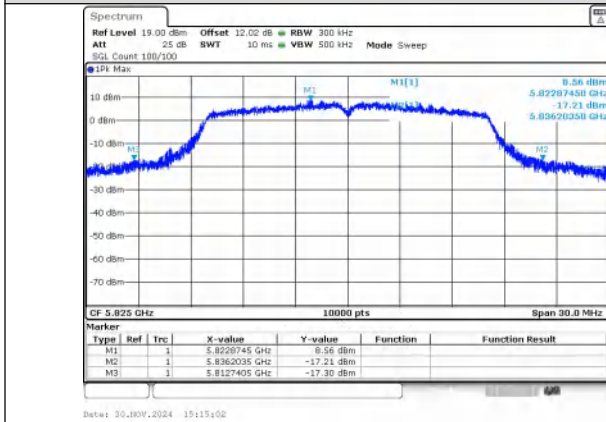
Test Graphs





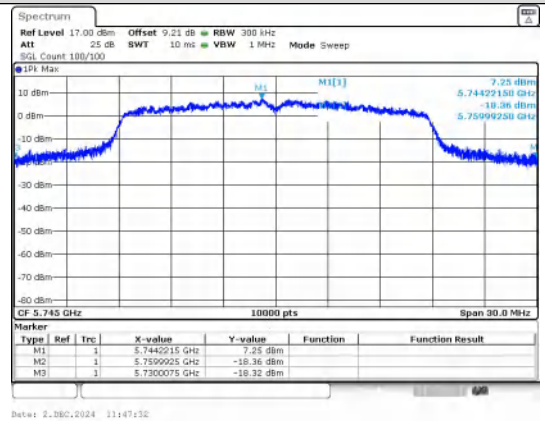
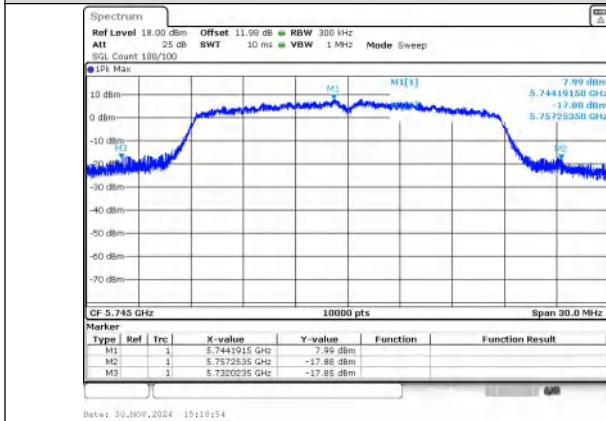
IEEE 802.11a_Channel 157_20MHz_Antenna 0

IEEE 802.11a_Channel 157_20MHz_Antenna 1



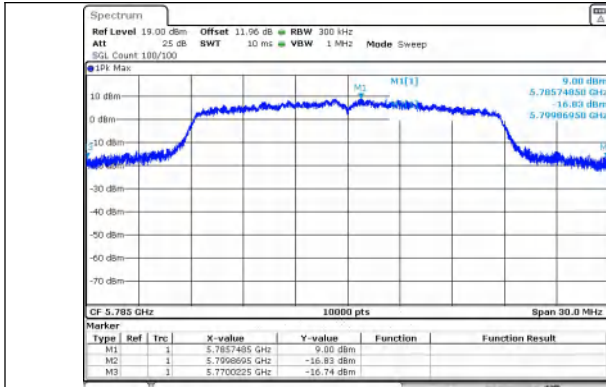
IEEE 802.11a_Channel 165_20MHz_Antenna 0

IEEE 802.11a_Channel 165_20MHz_Antenna 1

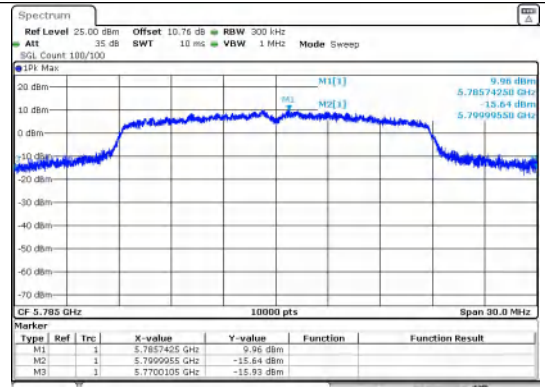


IEEE 802.11n_Channel 149_20MHz_Antenna 0

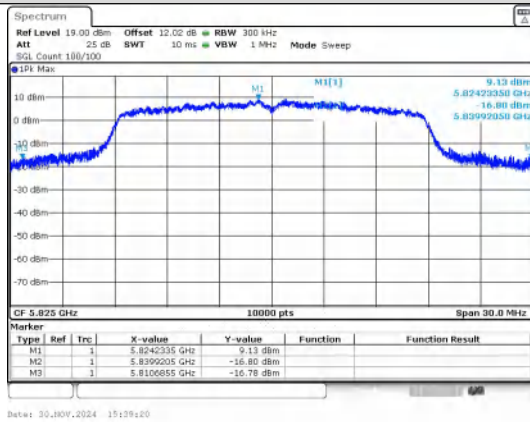
IEEE 802.11n_Channel 149_20MHz_Antenna 1



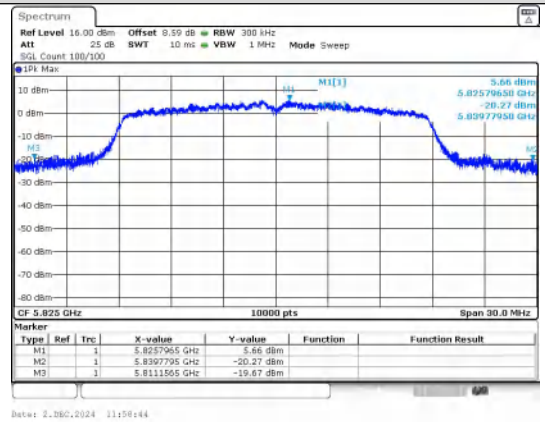
IEEE 802.11n_Channel 157_20MHz_Antenna 0



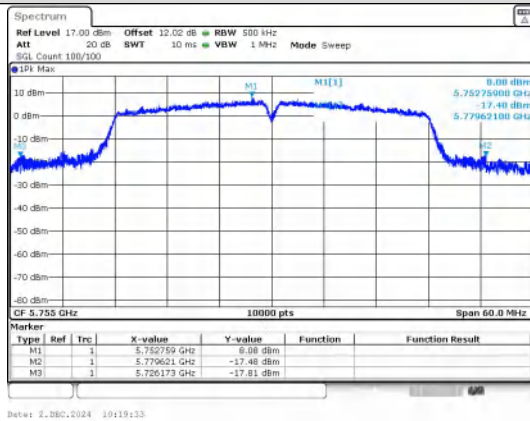
IEEE 802.11n_Channel 157_20MHz_Antenna 1



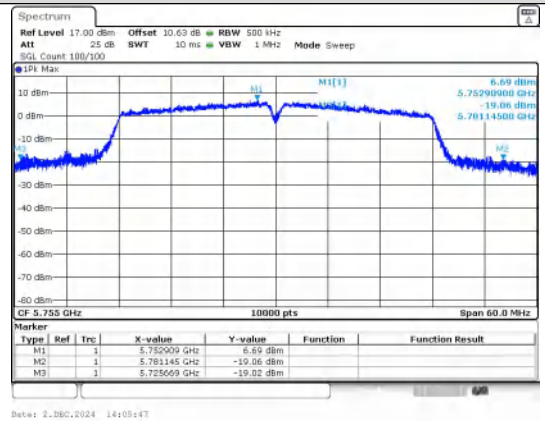
IEEE 802.11n_Channel 165_20MHz_Antenna 0



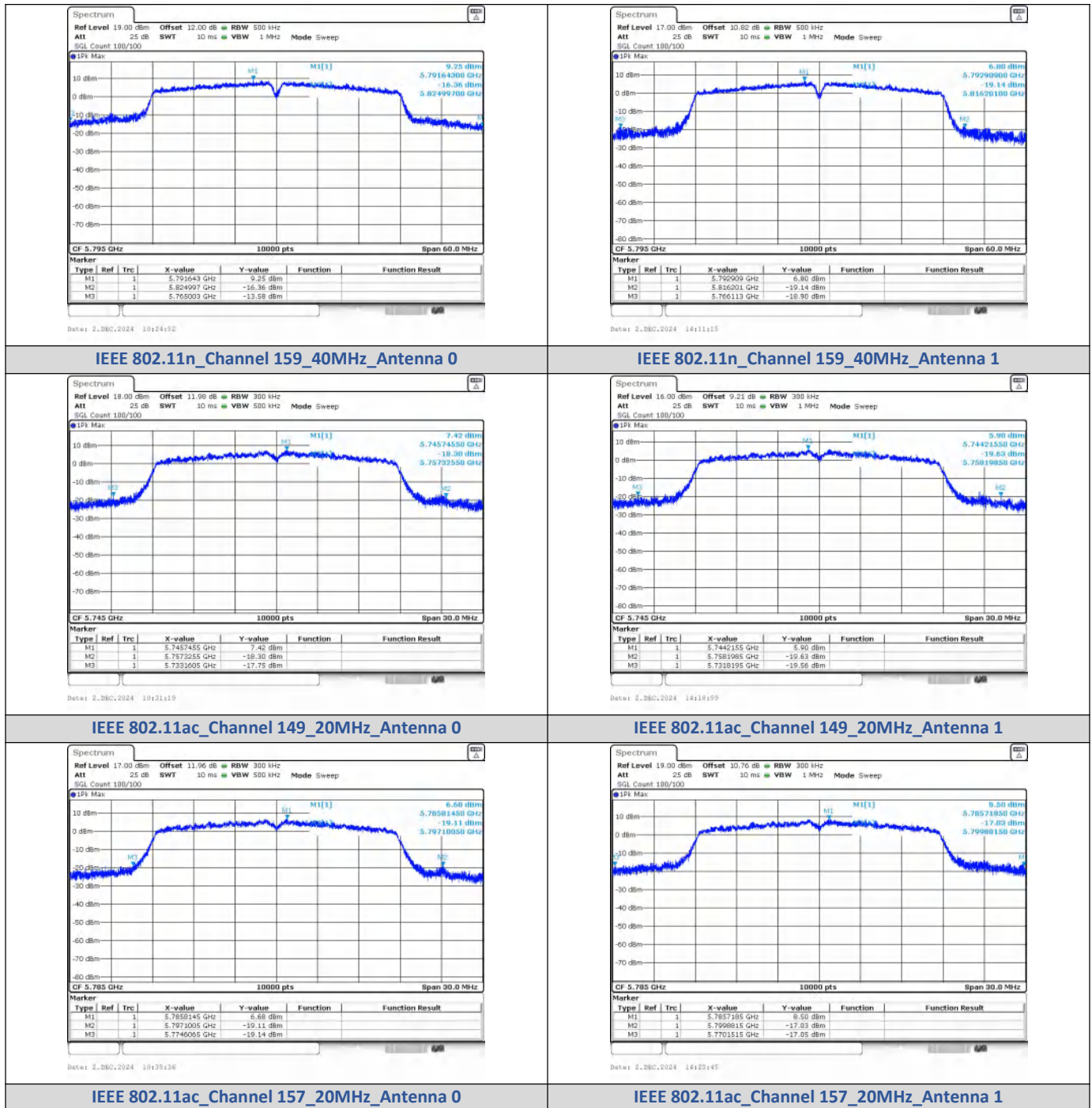
IEEE 802.11n_Channel 165_20MHz_Antenna 1

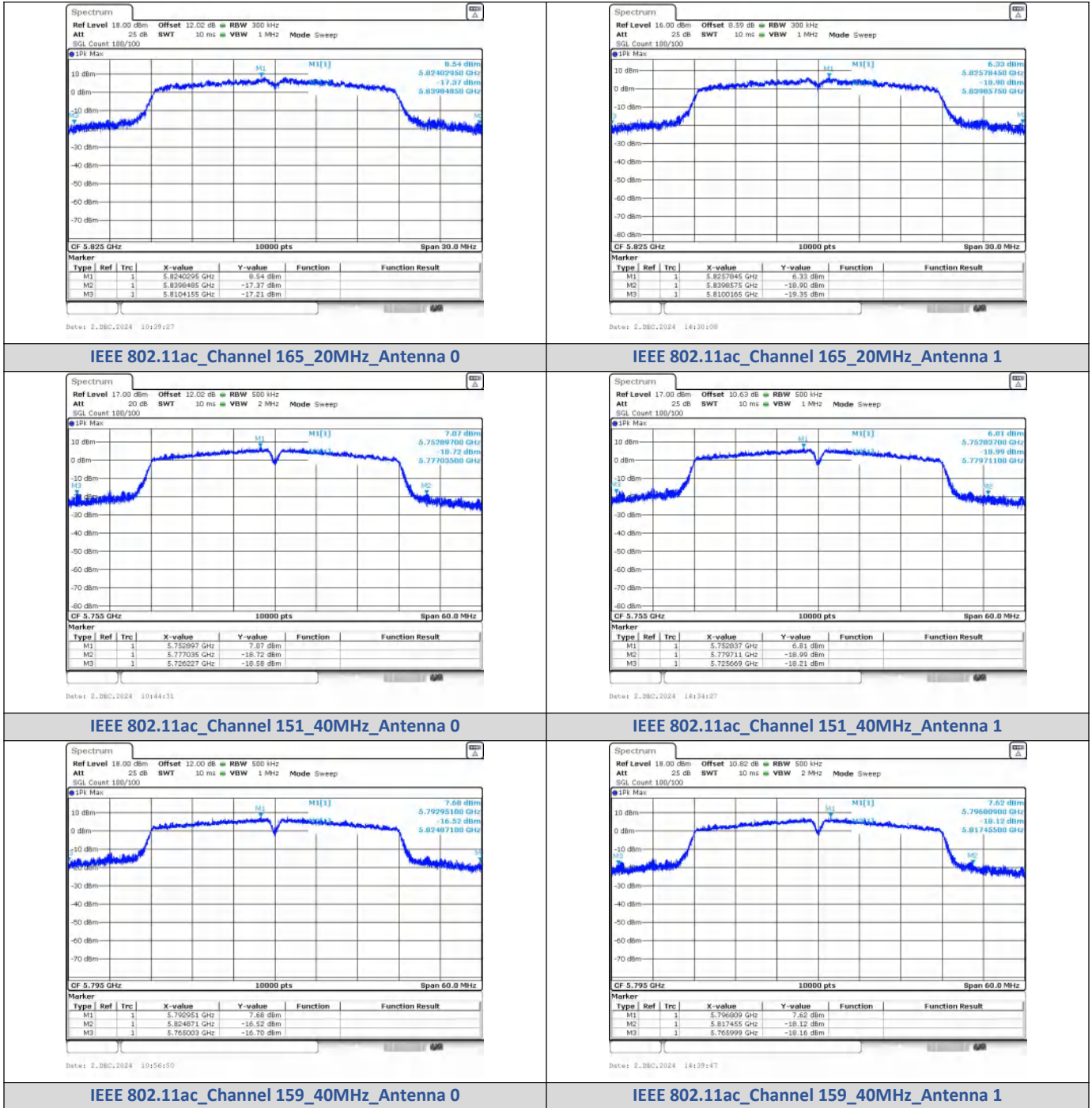


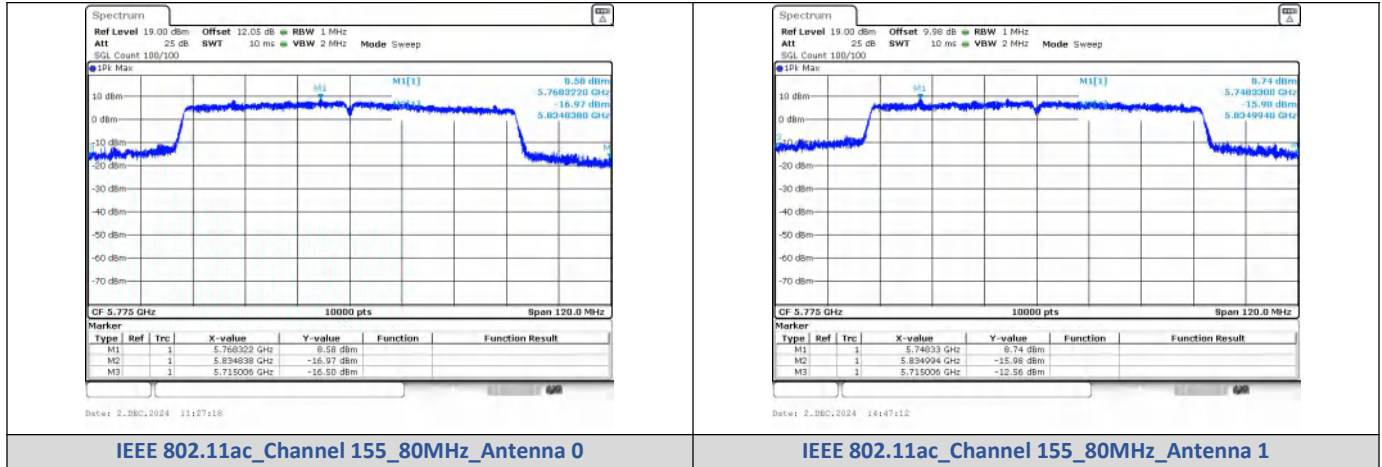
IEEE 802.11n_Channel 151_40MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 1







6) Conducted Out Of Band Emission

Test Result

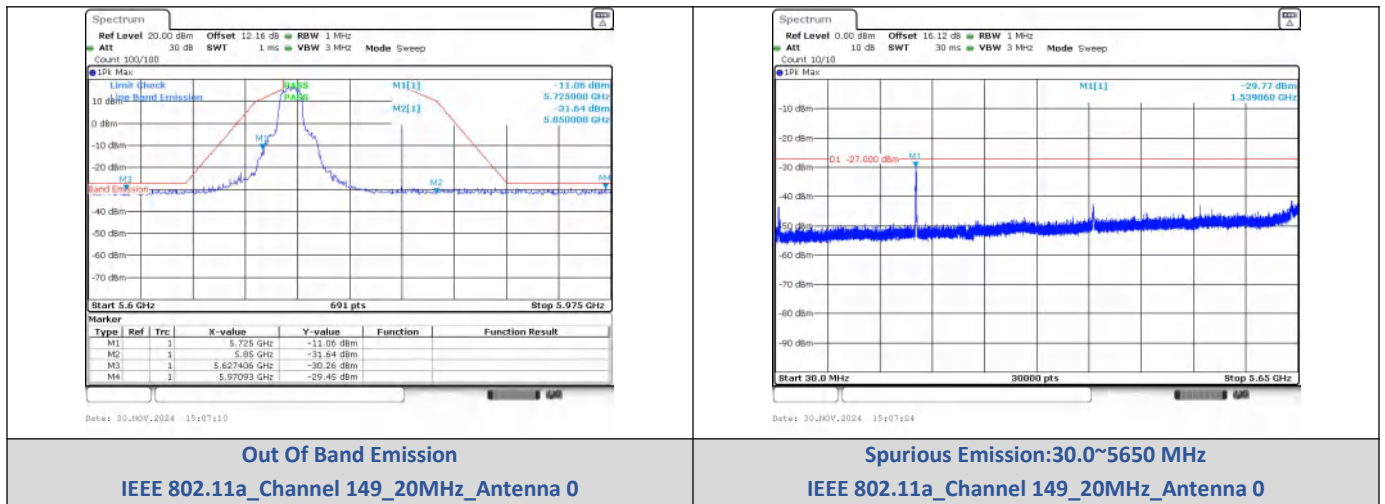
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11a	149	0	1539.06	-29.770	-27	-2.770	PASS
			5627.41	-30.259	-27	-3.259	PASS
			5725.00	-11.060	27	-38.060	PASS
			5850.00	-31.640	27	-58.640	PASS
			5970.93	-29.446	-27	-2.446	PASS
			17240.6	-41.480	-27	-14.480	PASS
		1	1539.06	-38.490	-27	-11.490	PASS
			5641.52	-31.120	-27	-4.120	PASS
			5725.00	-14.240	27	-41.240	PASS
			5850.00	-33.290	27	-60.290	PASS
			5942.17	-29.476	-27	-2.476	PASS
			17236.8	-45.630	-27	-18.630	PASS
	157	0	1581.40	-34.980	-27	-7.980	PASS
			5600.81	-29.850	-27	-2.850	PASS
			5725.00	-31.180	27	-58.180	PASS
			5850.00	-29.750	27	-56.750	PASS
			5970.93	-29.597	-27	-2.597	PASS
			20077.7	-43.640	-27	-16.640	PASS
		1	1583.27	-39.770	-27	-12.770	PASS
			5613.84	-32.181	-27	-5.181	PASS
			5725.00	-29.680	27	-56.680	PASS
			5850.00	-31.950	27	-58.950	PASS
			5935.65	-29.907	-27	-2.907	PASS
			17349.3	-46.970	-27	-19.970	PASS
IEEE 802.11n_20	149	0	1621.12	-37.770	-27	-10.770	PASS
			5642.06	-30.164	-27	-3.164	PASS
			5725.00	-31.640	27	-58.640	PASS
			5850.00	-29.030	27	-56.030	PASS
			5929.77	-42.290	-27	-15.290	PASS
			5934.57	-28.478	-27	-1.478	PASS
		1	1620.93	-38.660	-27	-11.660	PASS
			5610.58	-31.390	-27	-4.390	PASS
			5725.00	-32.450	27	-59.450	PASS
			5850.00	-25.520	27	-52.520	PASS
			5949.76	-30.711	-27	-3.711	PASS
			17479.0	-43.140	-27	-16.140	PASS
		0	1539.25	-34.240	-27	-7.240	PASS
			5608.95	-29.831	-27	-2.831	PASS
			5725.00	-18.090	27	-45.090	PASS
			5850.00	-31.310	27	-58.310	PASS
			5947.05	-29.148	-27	-2.148	PASS
			17233.0	-42.850	-27	-15.850	PASS
		1	1538.31	-36.000	-27	-9.000	PASS

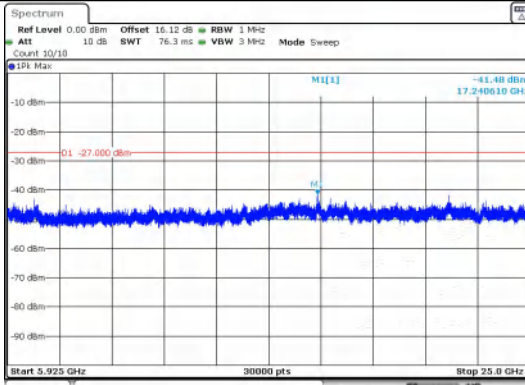
			5612.21	-30.882	-27	-3.882	PASS
			5725.00	-15.120	27	-42.120	PASS
			5850.00	-31.820	27	-58.820	PASS
			5953.56	-30.936	-27	-3.936	PASS
			6891.78	-47.820	-27	-20.820	PASS
	157	0	1576.34	-33.210	-27	-6.210	PASS
			5601.36	-30.380	-27	-3.380	PASS
			5725.00	-32.030	27	-59.030	PASS
			5850.00	-31.260	27	-58.260	PASS
			5954.65	-29.376	-27	-2.376	PASS
			17346.8	-42.560	-27	-15.560	PASS
		1	1578.97	-33.820	-27	-6.820	PASS
			5638.80	-31.054	-27	-4.054	PASS
			5725.00	-30.650	27	-57.650	PASS
			5850.00	-32.280	27	-59.280	PASS
			5938.91	-29.872	-27	-2.872	PASS
			17361.4	-46.130	-27	-19.130	PASS
	165	0	1618.49	-33.230	-27	-6.230	PASS
			5641.52	-29.807	-27	-2.807	PASS
			5725.00	-31.700	27	-58.700	PASS
			5850.00	-20.870	27	-47.870	PASS
			5974.73	-29.750	-27	-2.750	PASS
			16555.2	-42.630	-27	-15.630	PASS
		1	5239.46	-48.640	-27	-21.640	PASS
			5618.72	-30.985	-27	-3.985	PASS
			5725.00	-33.420	27	-60.420	PASS
			5850.00	-26.170	27	-53.170	PASS
			5955.19	-30.862	-27	-3.862	PASS
			18305.0	-47.940	-27	-20.940	PASS
IEEE 802.11n_40	151	0	5638.26	-30.040	-27	-3.040	PASS
			5638.48	-36.840	-27	-9.840	PASS
			5725.00	-17.380	27	-44.380	PASS
			5850.00	-31.020	27	-58.020	PASS
			5946.51	-29.804	-27	-2.804	PASS
			17257.1	-41.640	-27	-14.640	PASS
		1	5648.03	-31.054	-27	-4.054	PASS
			5649.72	-39.850	-27	-12.850	PASS
			5725.00	-16.840	27	-43.840	PASS
			5850.00	-32.560	27	-59.560	PASS
			5946.51	-31.240	-27	-4.240	PASS
			17258.4	-47.640	-27	-20.640	PASS
	159	0	1590.58	-36.120	-27	-9.120	PASS
			5635.00	-30.366	-27	-3.366	PASS
			5725.00	-27.130	27	-54.130	PASS
			5850.00	-25.250	27	-52.250	PASS
			5926.43	-29.301	-27	-2.301	PASS
			5929.13	-38.330	-27	-11.330	PASS
		1	1590.39	-41.860	-27	-14.860	PASS
			5637.72	-30.045	-27	-3.045	PASS

IEEE 802.11ac_20	149	0	5725.00	-30.460	27	-57.460	PASS
			5850.00	-27.440	27	-54.440	PASS
			5938.37	-31.144	-27	-4.144	PASS
			16325.6	-48.020	-27	-21.020	PASS
			1539.06	-36.270	-27	-9.270	PASS
			5629.58	-30.537	-27	-3.537	PASS
	157	0	5725.00	-19.860	27	-46.860	PASS
			5850.00	-31.000	27	-58.000	PASS
			5942.17	-29.439	-27	-2.439	PASS
			22052.0	-43.240	-27	-16.240	PASS
			1539.63	-37.380	-27	-10.380	PASS
			5602.98	-31.568	-27	-4.568	PASS
	157	1	5725.00	-18.690	27	-45.690	PASS
			5850.00	-32.410	27	-59.410	PASS
			5932.94	-31.025	-27	-4.025	PASS
			16301.5	-47.420	-27	-20.420	PASS
			1580.65	-36.270	-27	-9.270	PASS
			5632.29	-29.834	-27	-2.834	PASS
IEEE 802.11ac_40	157	0	5725.00	-31.390	27	-58.390	PASS
			5850.00	-31.350	27	-58.350	PASS
			5935.65	-29.757	-27	-2.757	PASS
			15964.5	-42.750	-27	-15.750	PASS
			1581.59	-36.590	-27	-9.590	PASS
			5630.66	-30.946	-27	-3.946	PASS
	165	1	5725.00	-33.230	27	-60.230	PASS
			5850.00	-33.130	27	-60.130	PASS
			5943.25	-30.934	-27	-3.934	PASS
			16325.0	-48.130	-27	-21.130	PASS
			1619.99	-35.990	-27	-8.990	PASS
			5647.49	-30.297	-27	-3.297	PASS
IEEE 802.11ac_40	151	0	5725.00	-29.510	27	-56.510	PASS
			5850.00	-23.850	27	-50.850	PASS
			5932.40	-29.220	-27	-2.220	PASS
			15398.0	-43.540	-27	-16.540	PASS
			1617.37	-37.420	-27	-10.420	PASS
			5624.69	-31.294	-27	-4.294	PASS
	151	1	5725.00	-33.140	27	-60.140	PASS
			5850.00	-24.890	27	-51.890	PASS
			5953.56	-30.892	-27	-3.892	PASS
			17472.7	-47.820	-27	-20.820	PASS
	151	0	5623.06	-30.347	-27	-3.347	PASS
			5649.72	-39.210	-27	-12.210	PASS
			5725.00	-17.340	27	-44.340	PASS
			5850.00	-30.630	27	-57.630	PASS
			5943.80	-29.322	-27	-2.322	PASS
			21971.2	-42.920	-27	-15.920	PASS
IEEE 802.11ac_40	151	1	5601.90	-31.081	-27	-4.081	PASS
			5649.72	-41.770	-27	-14.770	PASS
			5725.00	-16.240	27	-43.240	PASS

	159		5850.00	-32.540	27	-59.540	PASS
			5930.77	-30.621	-27	-3.621	PASS
			22048.8	-47.880	-27	-20.880	PASS
		0	1590.21	-36.520	-27	-9.520	PASS
			5626.86	-29.838	-27	-2.838	PASS
			5725.00	-29.250	27	-56.250	PASS
			5850.00	-27.360	27	-54.360	PASS
			5929.69	-29.208	-27	-2.208	PASS
			21989.7	-42.790	-27	-15.790	PASS
		1	1589.64	-41.280	-27	-14.280	PASS
			5622.52	-31.939	-27	-4.939	PASS
			5725.00	-30.200	27	-57.200	PASS
			5850.00	-29.230	27	-56.230	PASS
			5970.93	-30.701	-27	-3.701	PASS
			21985.2	-47.870	-27	-20.870	PASS
IEEE 802.11ac_80	155	0	5642.60	-29.126	-27	-2.126	PASS
			5648.78	-30.730	-27	-3.730	PASS
			5725.00	-22.760	27	-49.760	PASS
			5850.00	-29.960	27	-56.960	PASS
			5934.57	-30.049	-27	-3.049	PASS
			21999.8	-43.120	-27	-16.120	PASS
		1	5645.31	-31.074	-27	-4.074	PASS
			5646.72	-36.080	-27	-9.080	PASS
			5725.00	-22.990	27	-49.990	PASS
			5850.00	-29.780	27	-56.780	PASS
			5952.48	-31.249	-27	-4.249	PASS
			17639.9	-48.100	-27	-21.100	PASS

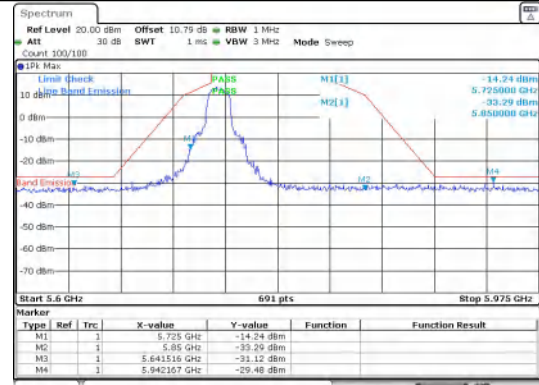
Test Graphs





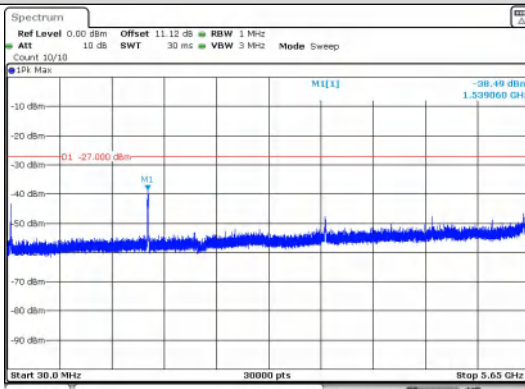
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Spurious Emission:5925~25000.0 MHz
IEEE 802.11a_Channel 149_20MHz_Antenna 0



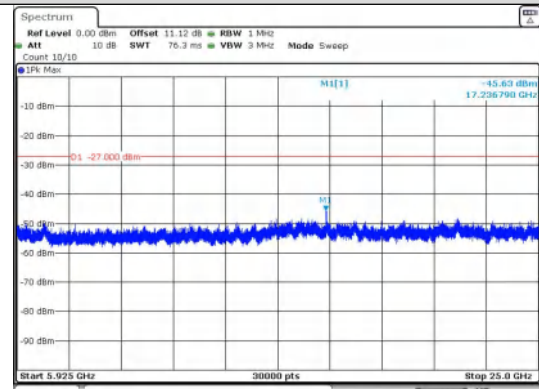
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Out Of Band Emission
IEEE 802.11a_Channel 149_20MHz_Antenna 1



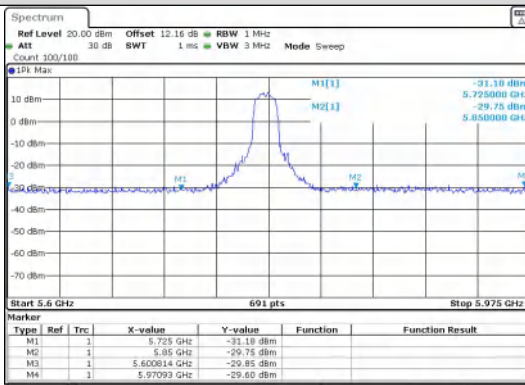
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Spurious Emission:30.0~5650 MHz
IEEE 802.11a_Channel 149_20MHz_Antenna 1



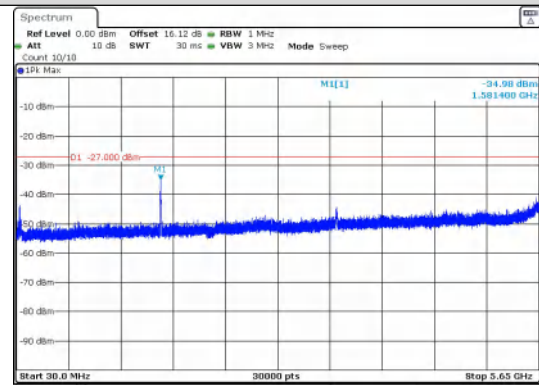
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Spurious Emission:5925~25000.0 MHz
IEEE 802.11a_Channel 149_20MHz_Antenna 1



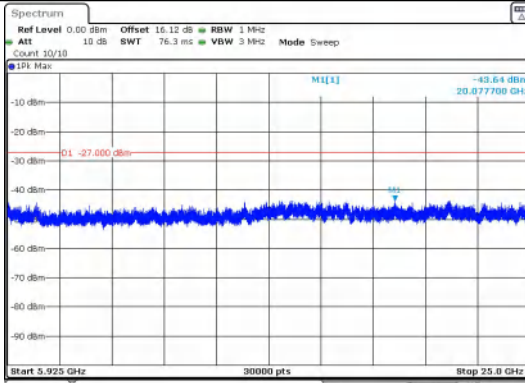
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Out Of Band Emission
IEEE 802.11a_Channel 157_20MHz_Antenna 0

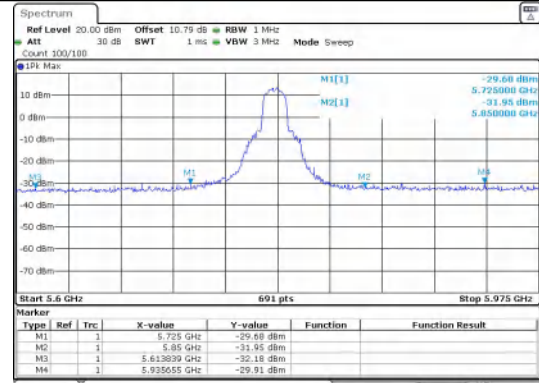


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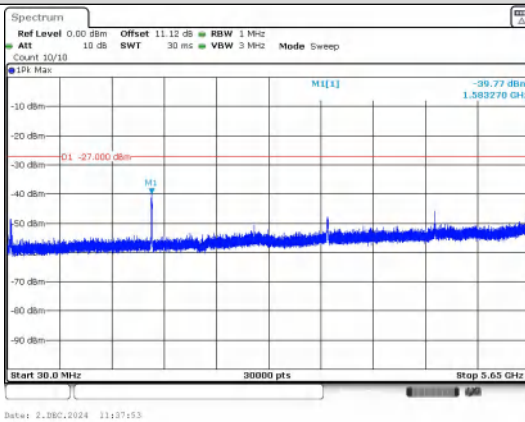
Spurious Emission:30.0~5650 MHz
IEEE 802.11a_Channel 157_20MHz_Antenna 0



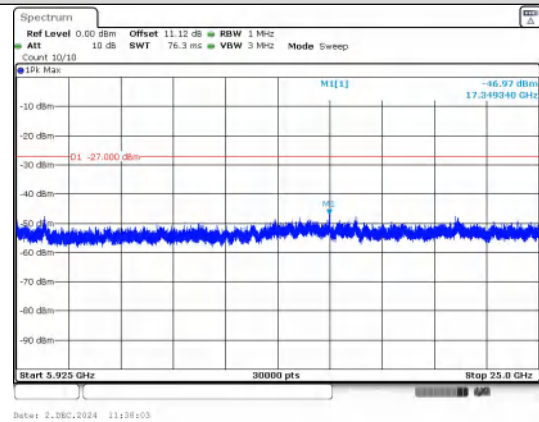
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IEEE 802.11a_Channel 157_20MHz_Antenna 0



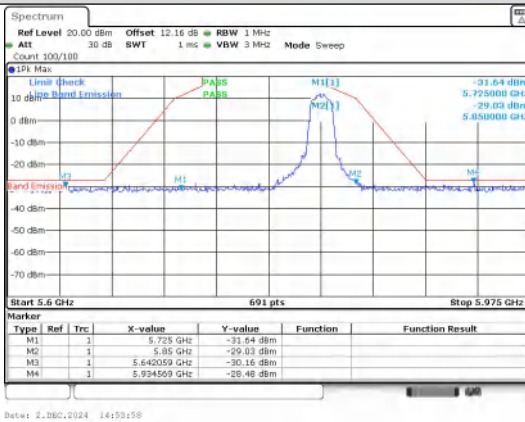
Out Of Band Emission
IEEE 802.11a_Channel 157_20MHz_Antenna 1



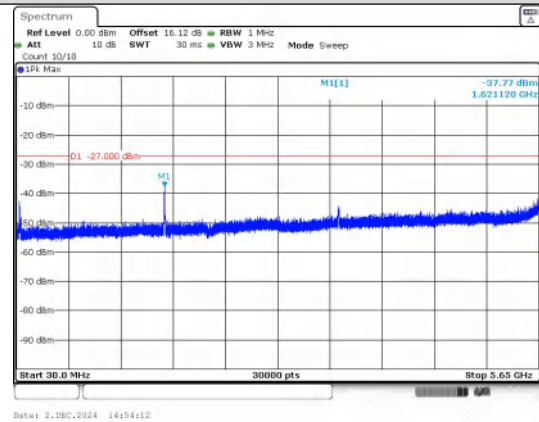
Spurious Emission:30.0~5650 MHz
IEEE 802.11a_Channel 157_20MHz_Antenna 1



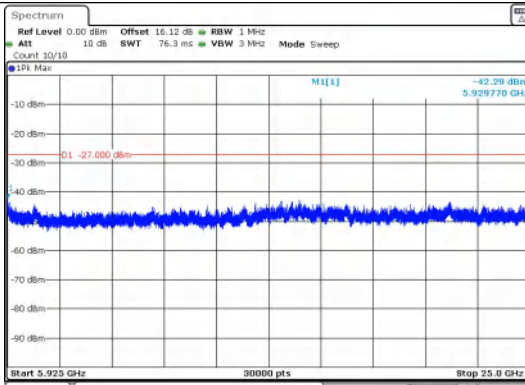
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IEEE 802.11a_Channel 157_20MHz_Antenna 1



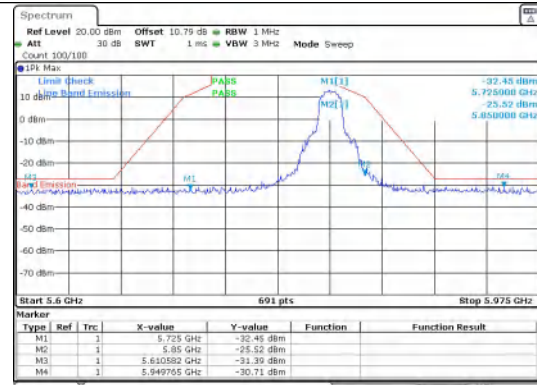
Out Of Band Emission
IEEE 802.11a_Channel 165_20MHz_Antenna 0



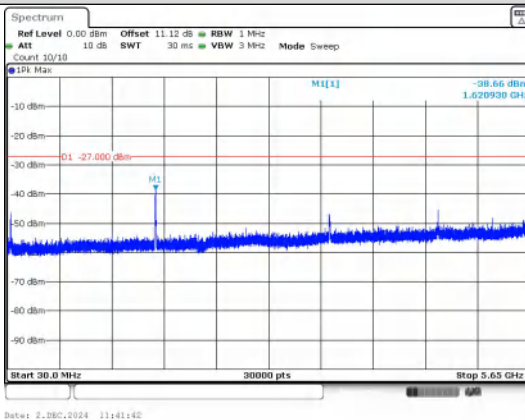
Spurious Emission:30.0~5650 MHz
IEEE 802.11a_Channel 165_20MHz_Antenna 0



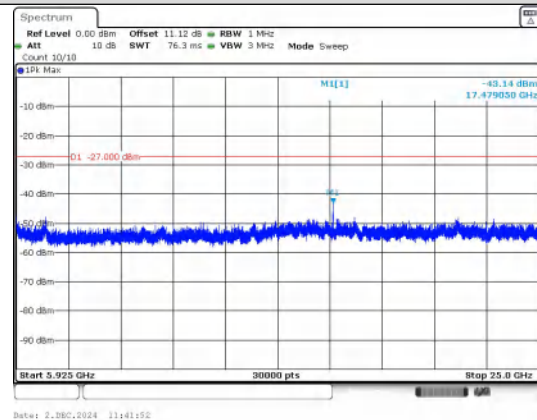
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IEEE 802.11a_Channel 165_20MHz_Antenna 0



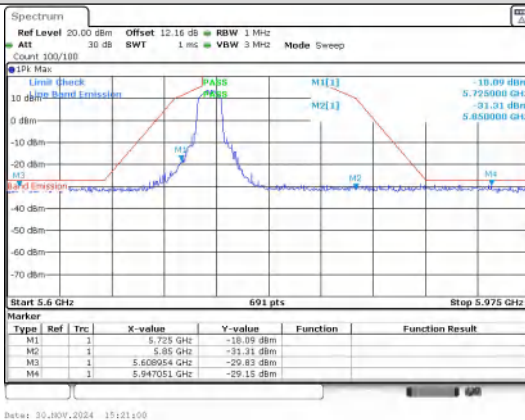
Out Of Band Emission
IEEE 802.11a_Channel 165_20MHz_Antenna 1



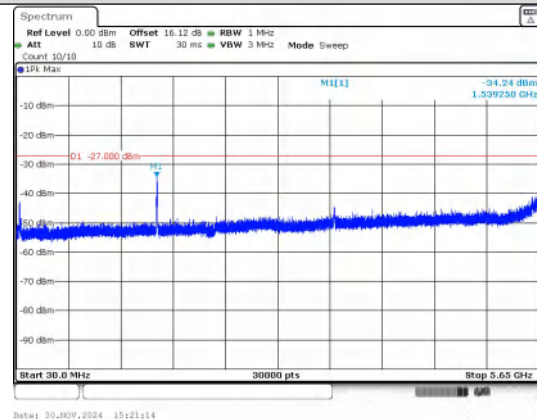
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IEEE 802.11a_Channel 165_20MHz_Antenna 1



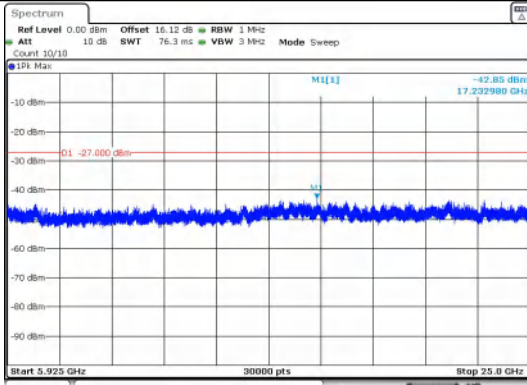
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IEEE 802.11a_Channel 165_20MHz_Antenna 1



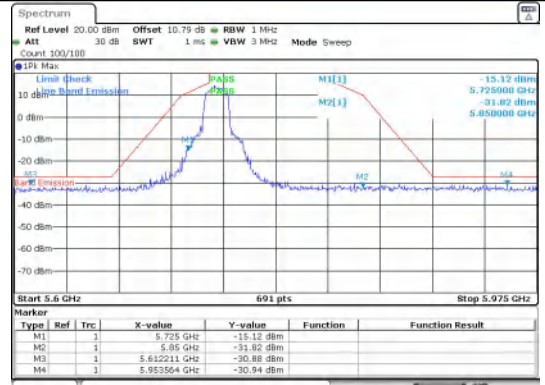
Out Of Band Emission
IEEE 802.11n_Channel 149_20MHz_Antenna 0



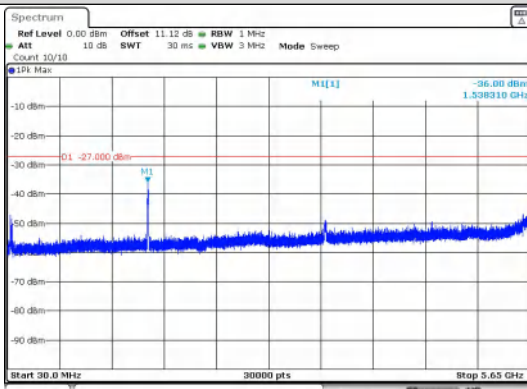
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IEEE 802.11n_Channel 149_20MHz_Antenna 0



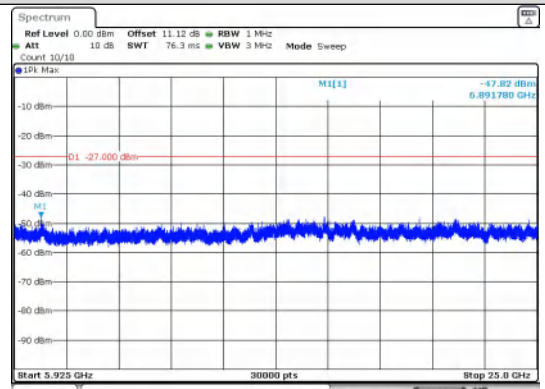
Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 149_20MHz_Antenna 0



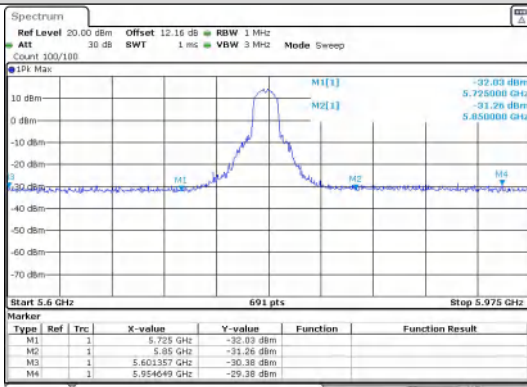
Out Of Band Emission
IEEE 802.11n_Channel 149_20MHz_Antenna 1



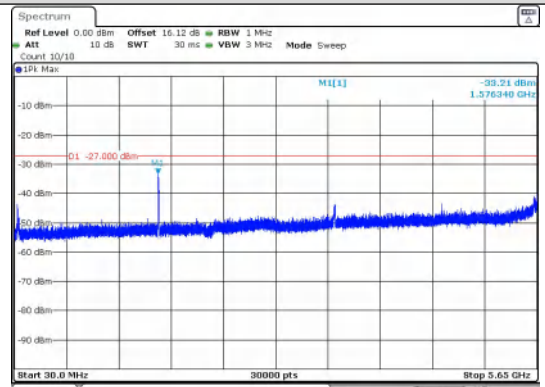
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IEEE 802.11n_Channel 149_20MHz_Antenna 1



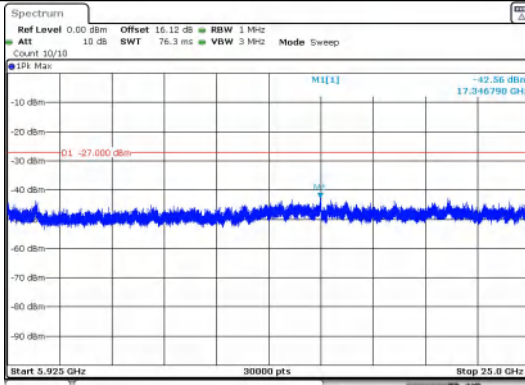
Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 149_20MHz_Antenna 1



Out Of Band Emission
IEEE 802.11n_Channel 157_20MHz_Antenna 0

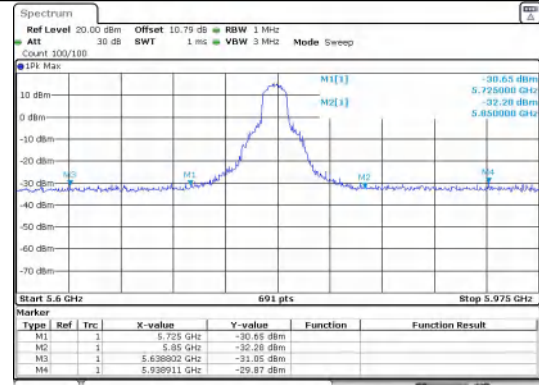


Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 157_20MHz_Antenna 0



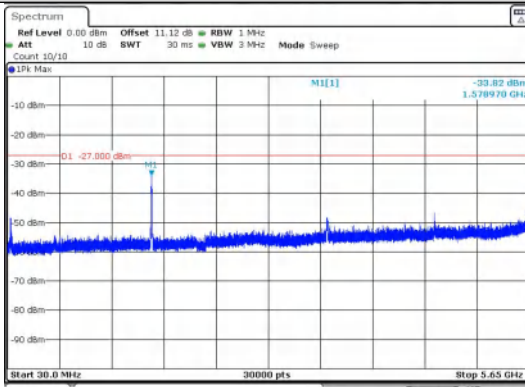
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Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 157_20MHz_Antenna 0



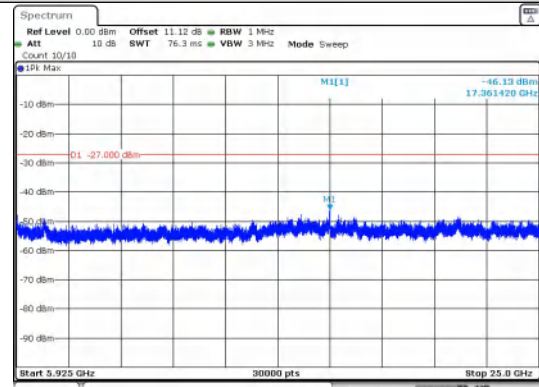
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Out Of Band Emission
IEEE 802.11n_Channel 157_20MHz_Antenna 1



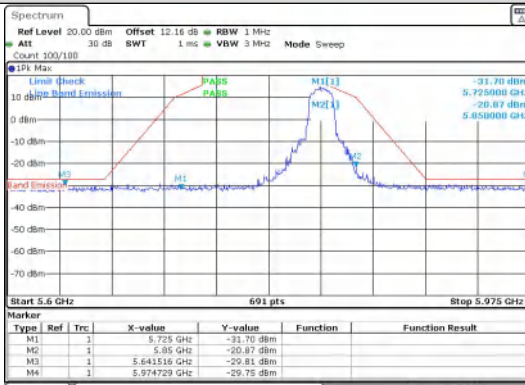
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Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 157_20MHz_Antenna 1



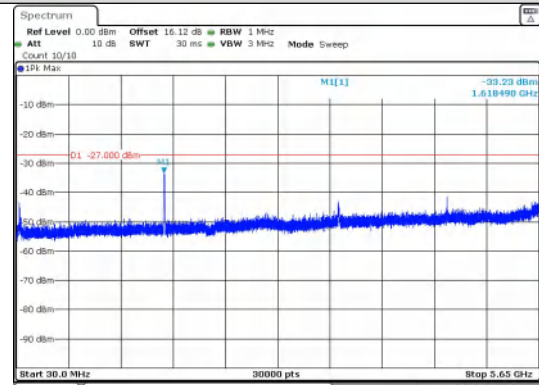
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Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 157_20MHz_Antenna 1



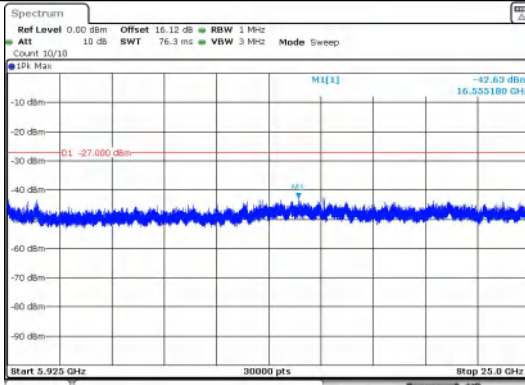
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Out Of Band Emission
IEEE 802.11n_Channel 165_20MHz_Antenna 0

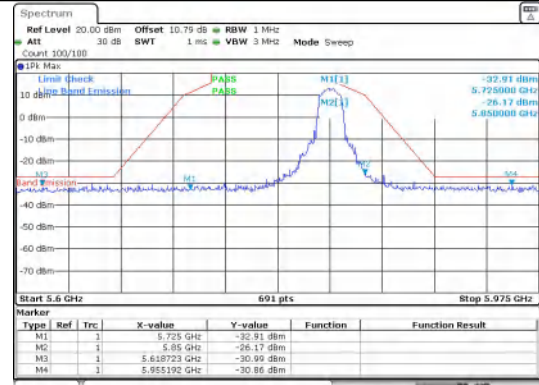


Date: 30,NOV,2024 15:43:33

Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 165_20MHz_Antenna 0



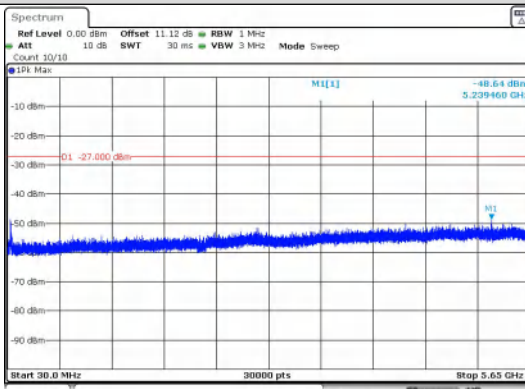
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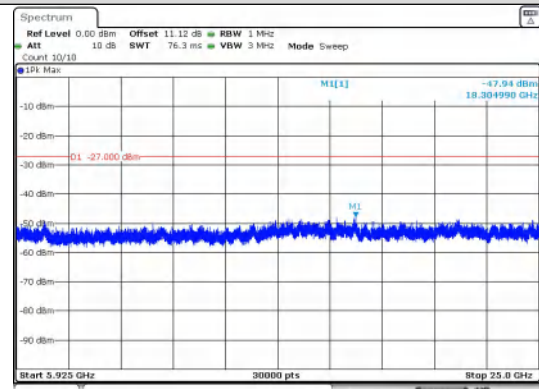
Date: 2.DEC.2024 12:00:49

Spurious Emission: 5925~25000.0 MHz
IEEE 802.11n_Channel 165_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11n_Channel 165_20MHz_Antenna 1



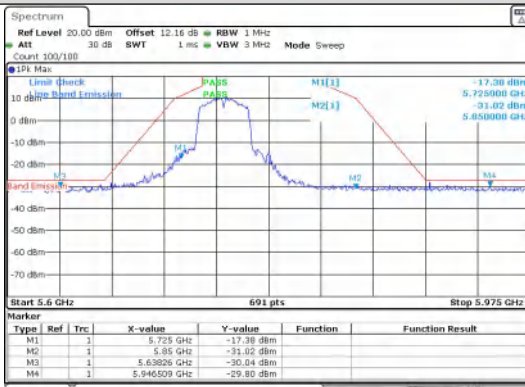
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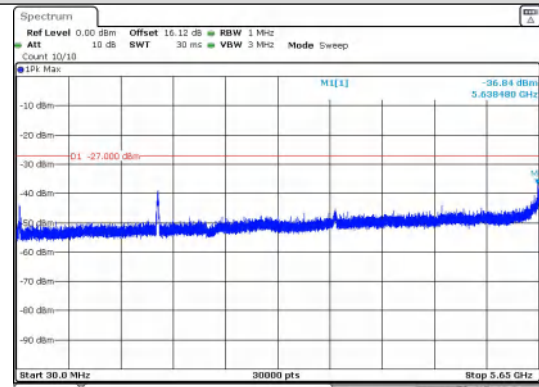
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Spurious Emission: 30.0~5650 MHz
IEEE 802.11n_Channel 165_20MHz_Antenna 1

Spurious Emission: 5925~25000.0 MHz
IEEE 802.11n_Channel 165_20MHz_Antenna 1



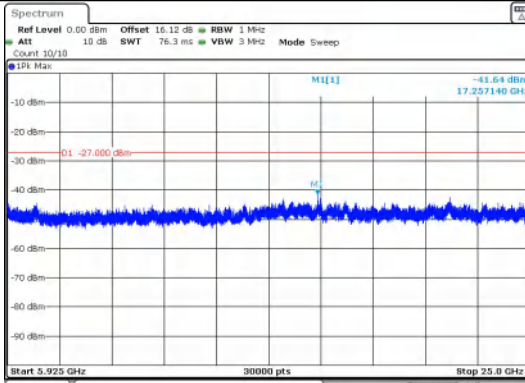
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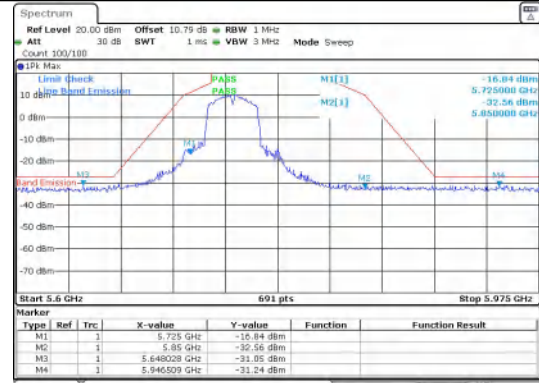
Out Of Band Emission
IEEE 802.11n_Channel 151_40MHz_Antenna 0

Spurious Emission: 30.0~5650 MHz
IEEE 802.11n_Channel 151_40MHz_Antenna 0



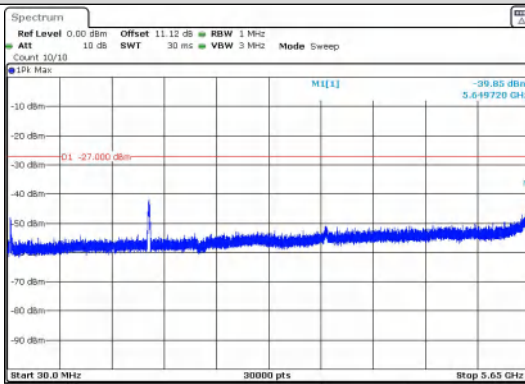
Date: 2. DEC. 2024 10:23:01

Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 151_40MHz_Antenna 0



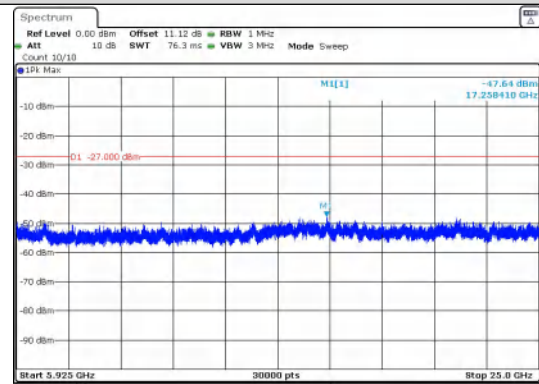
Date: 2. DEC. 2024 14:07:50

Out Of Band Emission
IEEE 802.11n_Channel 151_40MHz_Antenna 1



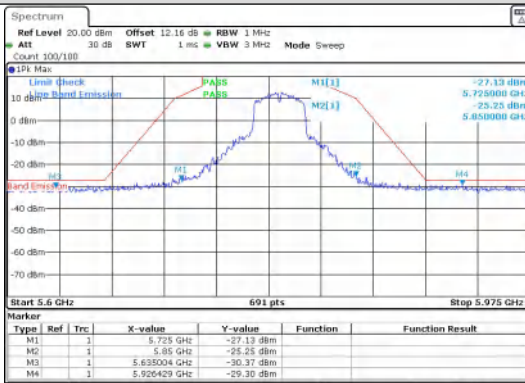
Date: 2. DEC. 2024 14:08:04

Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 151_40MHz_Antenna 1



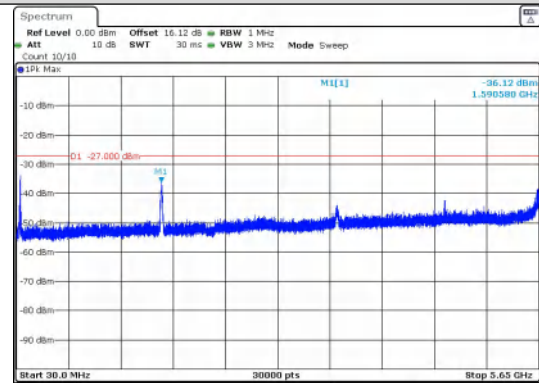
Date: 2. DEC. 2024 14:08:14

Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 151_40MHz_Antenna 1



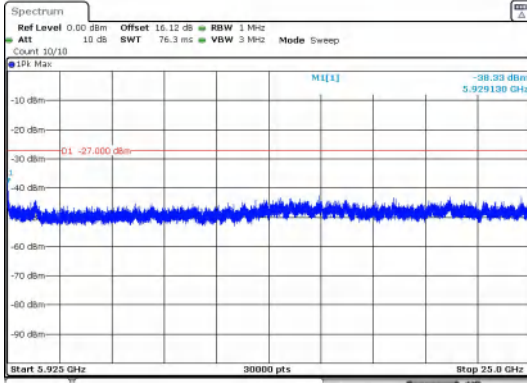
Date: 2. DEC. 2024 10:29:04

Out Of Band Emission
IEEE 802.11n_Channel 159_40MHz_Antenna 0



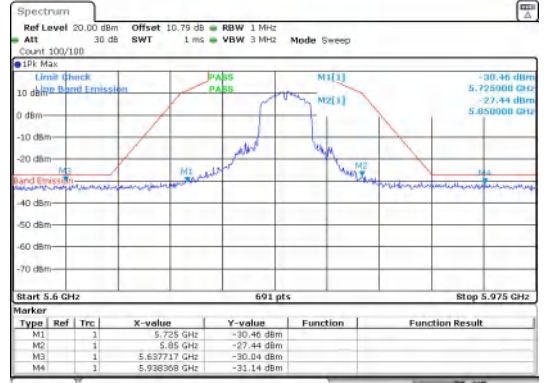
Date: 2. DEC. 2024 10:29:18

Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 159_40MHz_Antenna 0



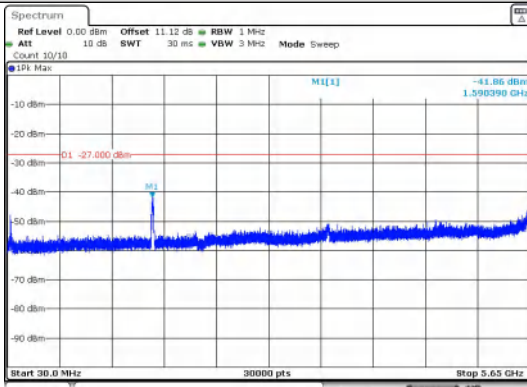
Date: 2.DEC.2024 10:29:28

Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 159_40MHz_Antenna 0



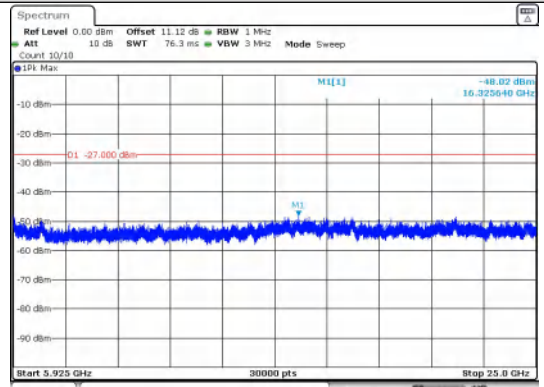
Date: 2.DEC.2024 14:13:20

Out Of Band Emission
IEEE 802.11n_Channel 159_40MHz_Antenna 1



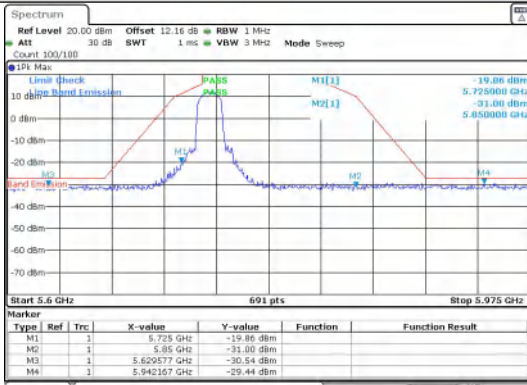
Date: 2.DEC.2024 14:13:34

Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 159_40MHz_Antenna 1



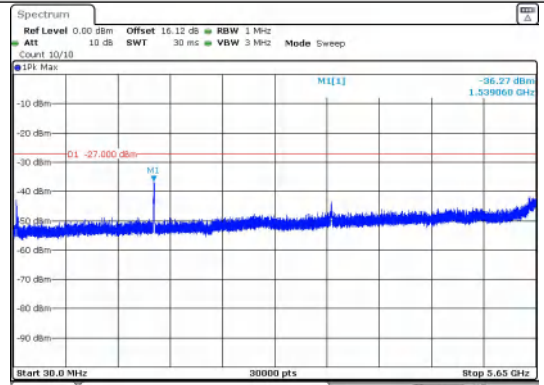
Date: 2.DEC.2024 14:13:44

Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 159_40MHz_Antenna 1



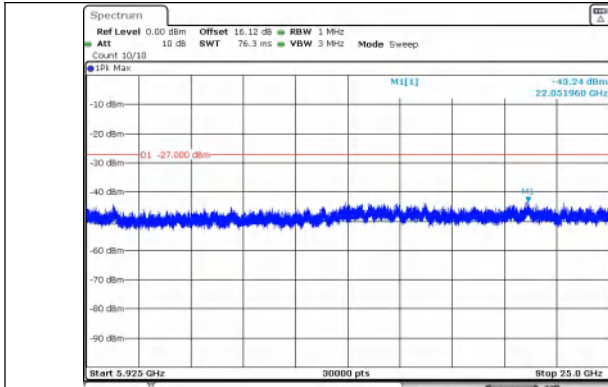
Date: 2.DEC.2024 10:33:37

Out Of Band Emission
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



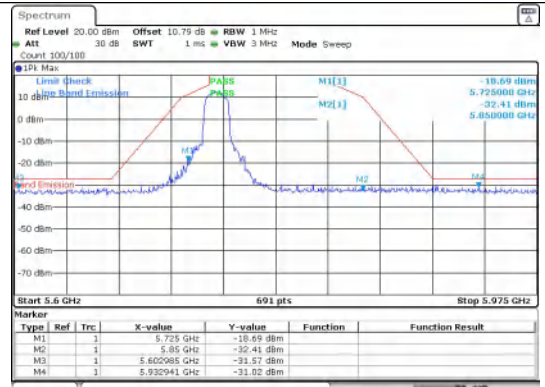
Date: 2.DEC.2024 10:33:51

Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



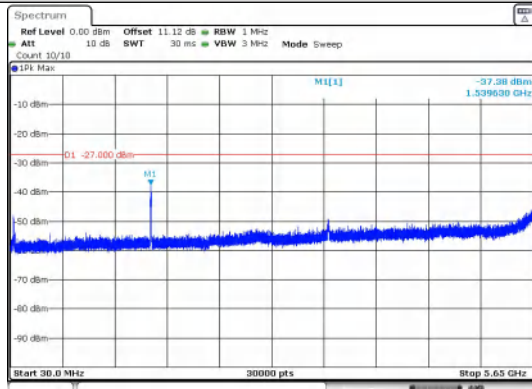
Date: 2.DEC.2024 10:24:01

Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



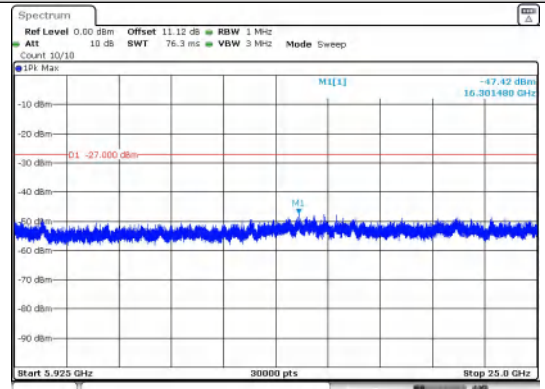
Date: 2.DEC.2024 14:21:07

Out Of Band Emission
IEEE 802.11ac_Channel 149_20MHz_Antenna 1



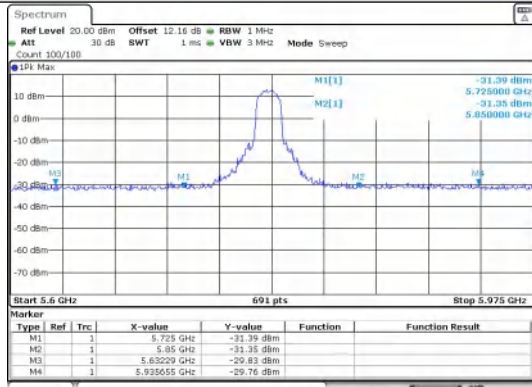
Date: 2.DEC.2024 14:21:11

Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 149_20MHz_Antenna 1



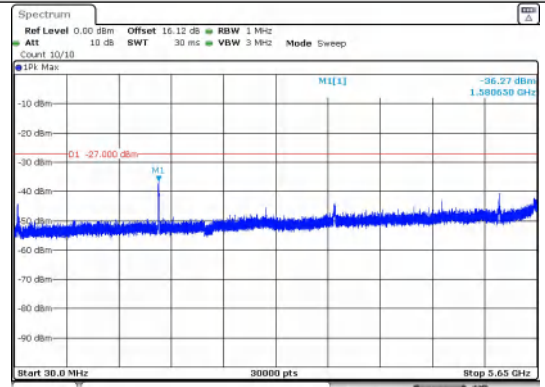
Date: 2.DEC.2024 14:21:11

Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 149_20MHz_Antenna 1



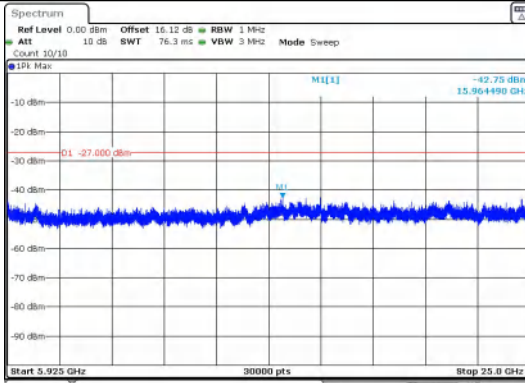
Date: 2.DEC.2024 10:27:41

Out Of Band Emission
IEEE 802.11ac_Channel 157_20MHz_Antenna 0

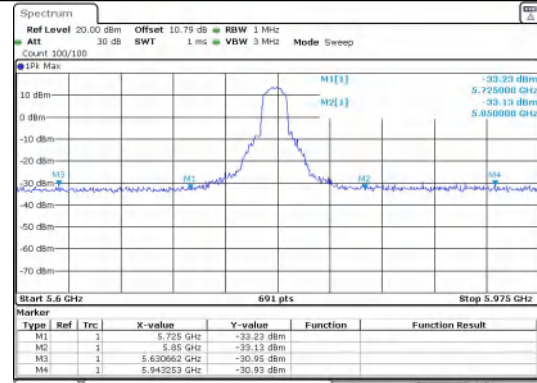


Date: 2.DEC.2024 10:27:55

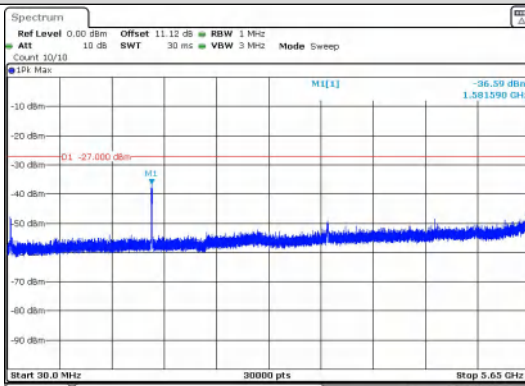
Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



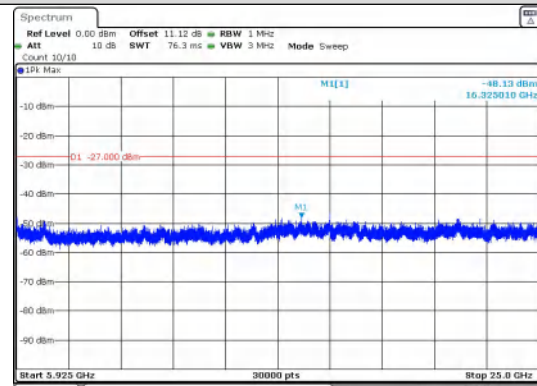
Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



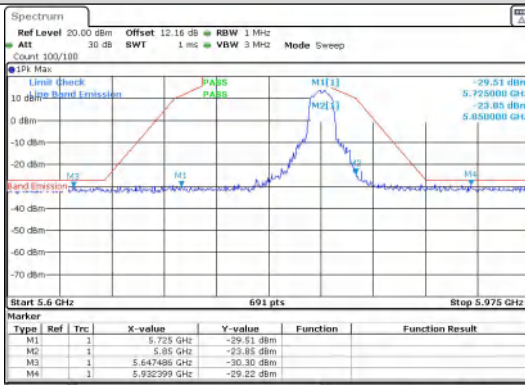
Out Of Band Emission
IEEE 802.11ac_Channel 157_20MHz_Antenna 1



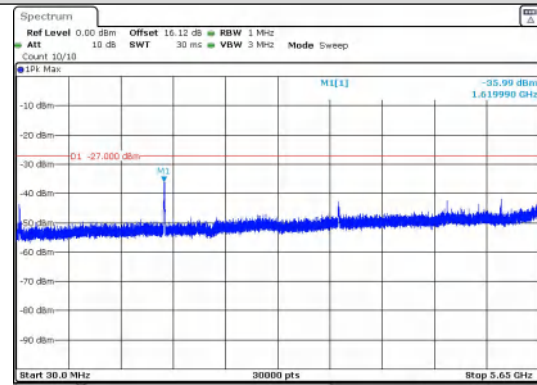
Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 157_20MHz_Antenna 1



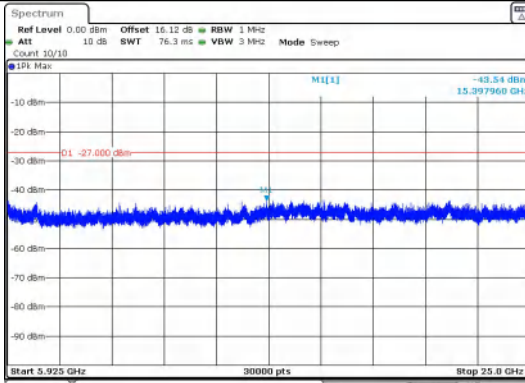
Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 157_20MHz_Antenna 1



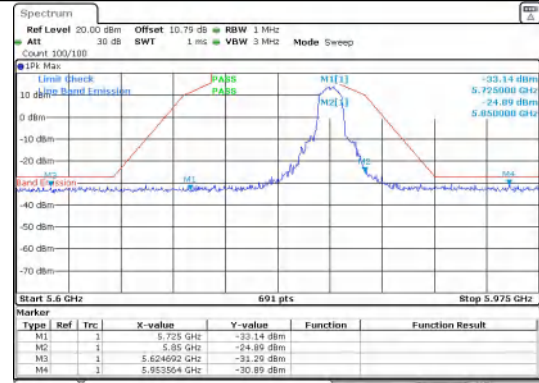
Out Of Band Emission
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



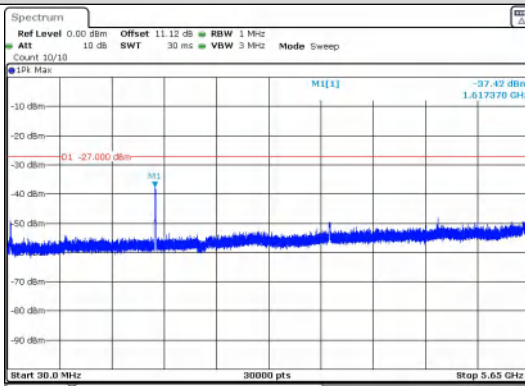
Date: 2.DEC.2024 10:43:06



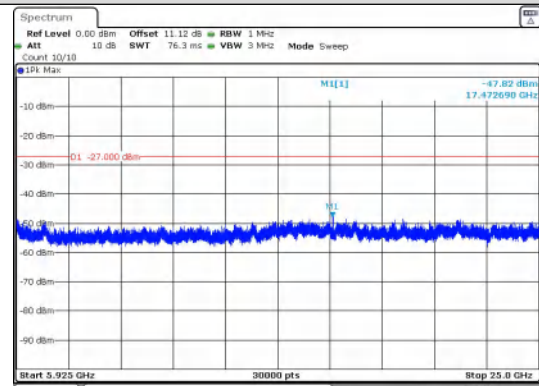
Date: 2.DEC.2024 10:43:02

Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 165_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11ac_Channel 165_20MHz_Antenna 1



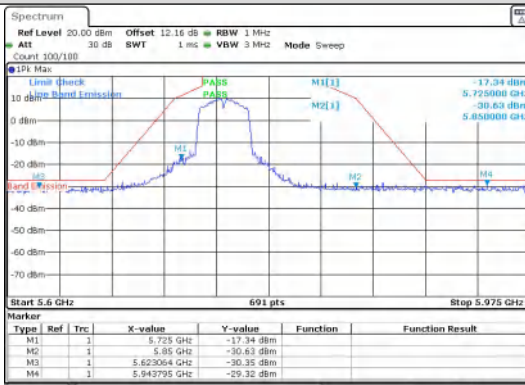
Date: 2.DEC.2024 10:43:36



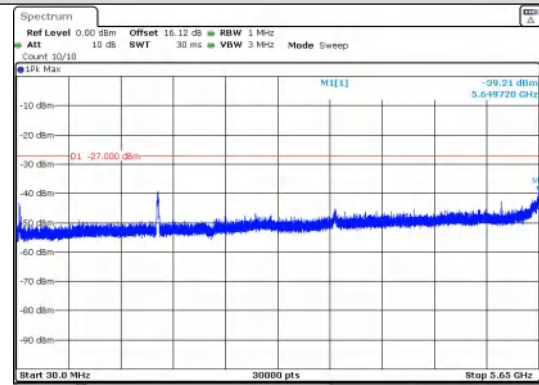
Date: 2.DEC.2024 10:43:46

Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 165_20MHz_Antenna 1

Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 165_20MHz_Antenna 1



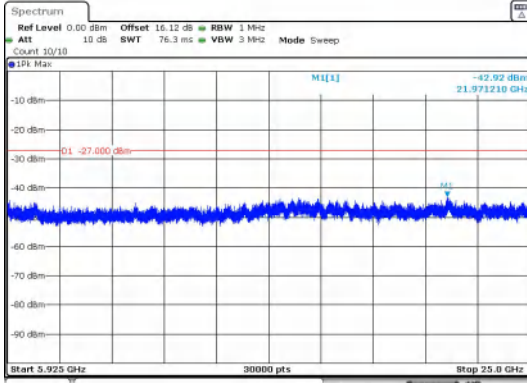
Date: 2.DEC.2024 10:46:49



Date: 2.DEC.2024 10:47:03

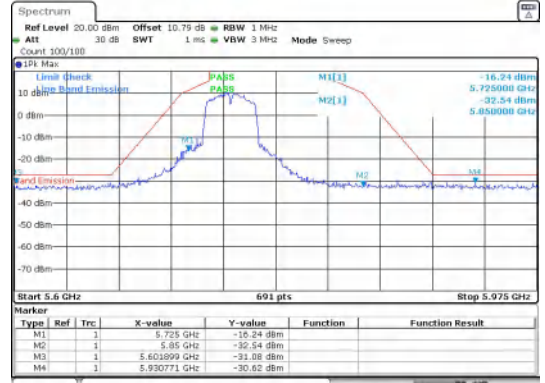
Out Of Band Emission
IEEE 802.11ac_Channel 151_40MHz_Antenna 0

Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 151_40MHz_Antenna 0



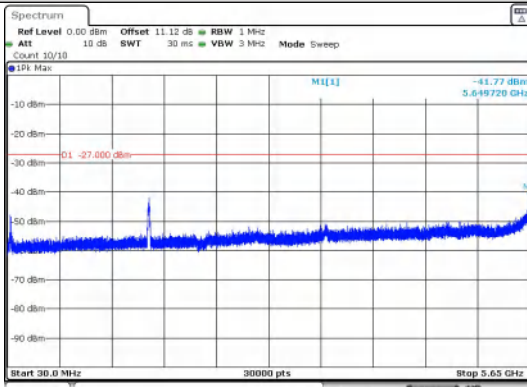
Date: 2,28C,2024 10:47:13

Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 151_40MHz_Antenna 0



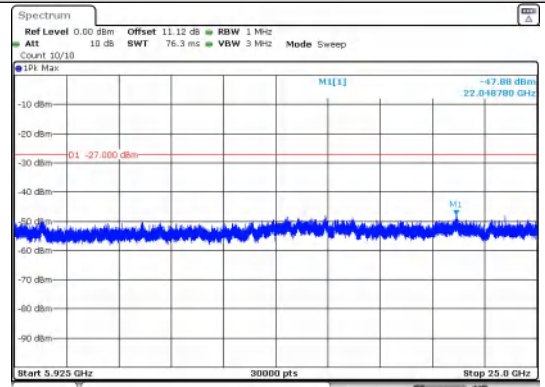
Date: 2,28C,2024 14:16:10

Out Of Band Emission
IEEE 802.11ac_Channel 151_40MHz_Antenna 1



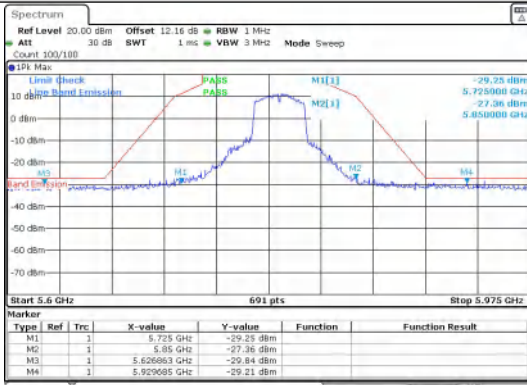
Date: 2,28C,2024 14:17:04

Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 151_40MHz_Antenna 1



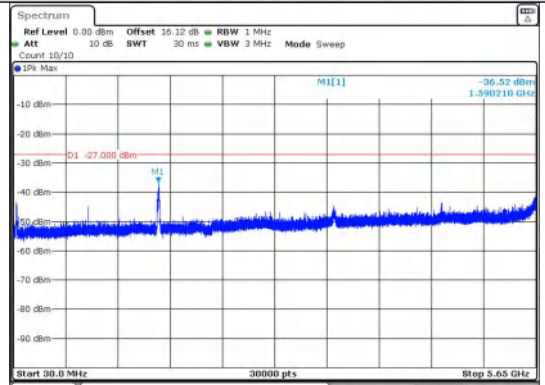
Date: 2,28C,2024 14:17:14

Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 151_40MHz_Antenna 1



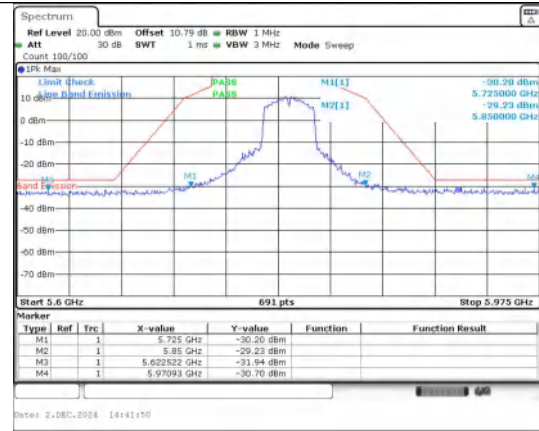
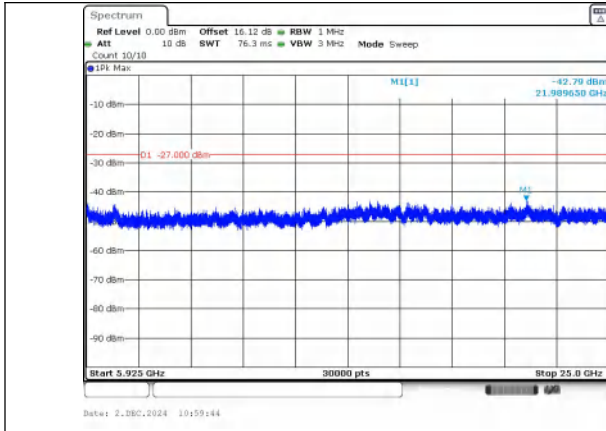
Date: 2,28C,2024 10:19:20

Out Of Band Emission
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



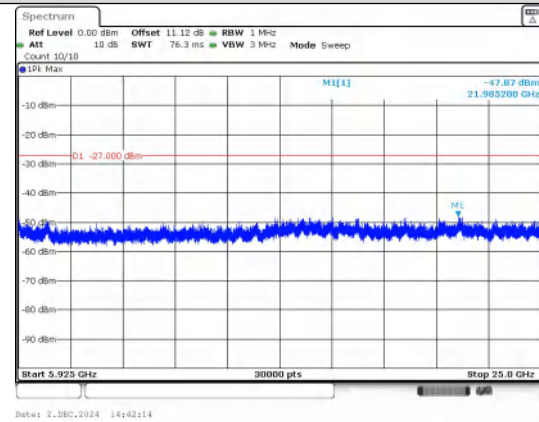
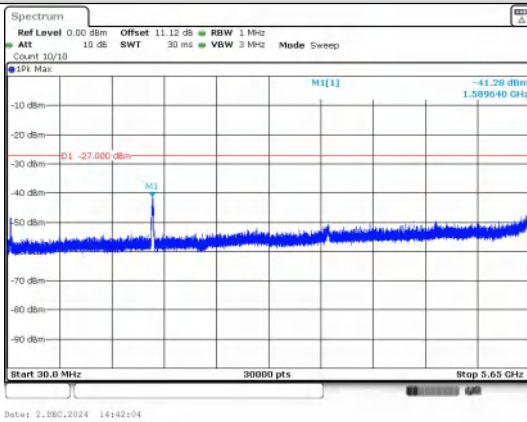
Date: 2,28C,2024 10:19:34

Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



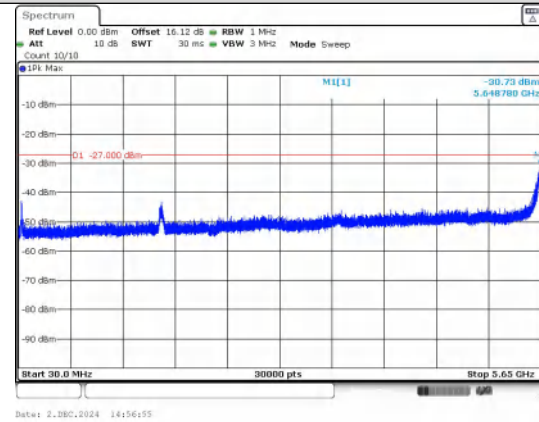
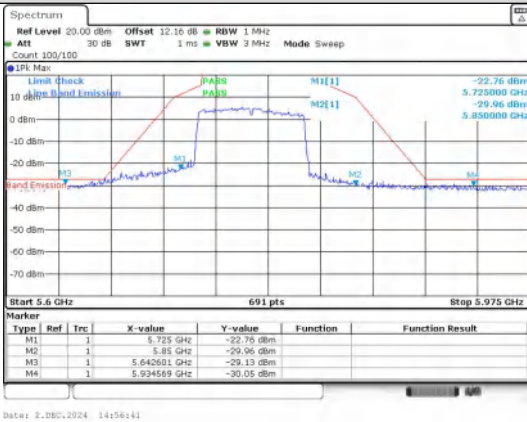
Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 159_40MHz_Antenna 0

Out Of Band Emission
IEEE 802.11ac_Channel 159_40MHz_Antenna 1



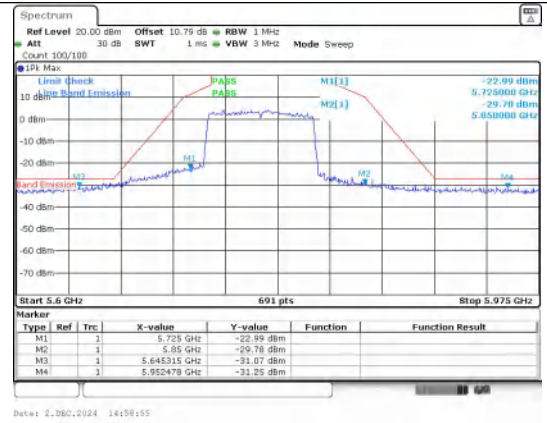
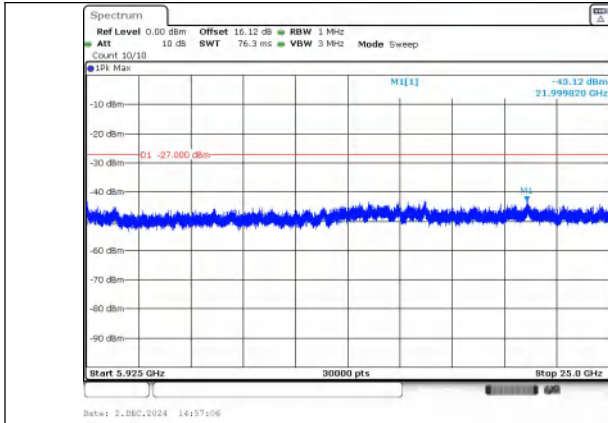
Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 159_40MHz_Antenna 1

Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 159_40MHz_Antenna 1



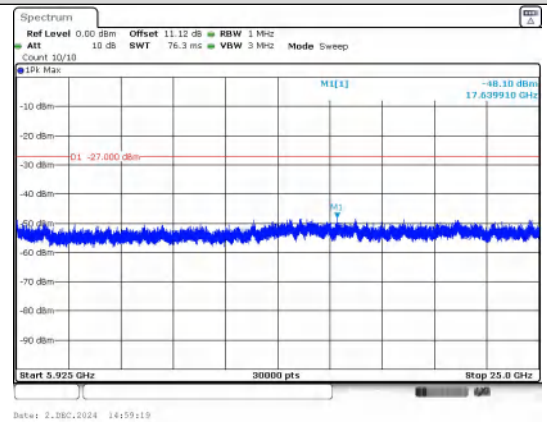
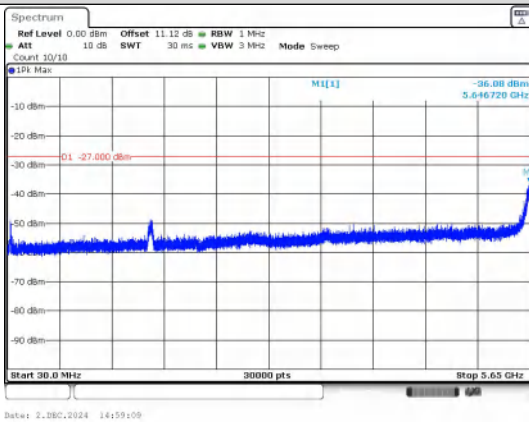
Out Of Band Emission
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 155_80MHz_Antenna 0



Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Out Of Band Emission
IEEE 802.11ac_Channel 155_80MHz_Antenna 1



Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 155_80MHz_Antenna 1

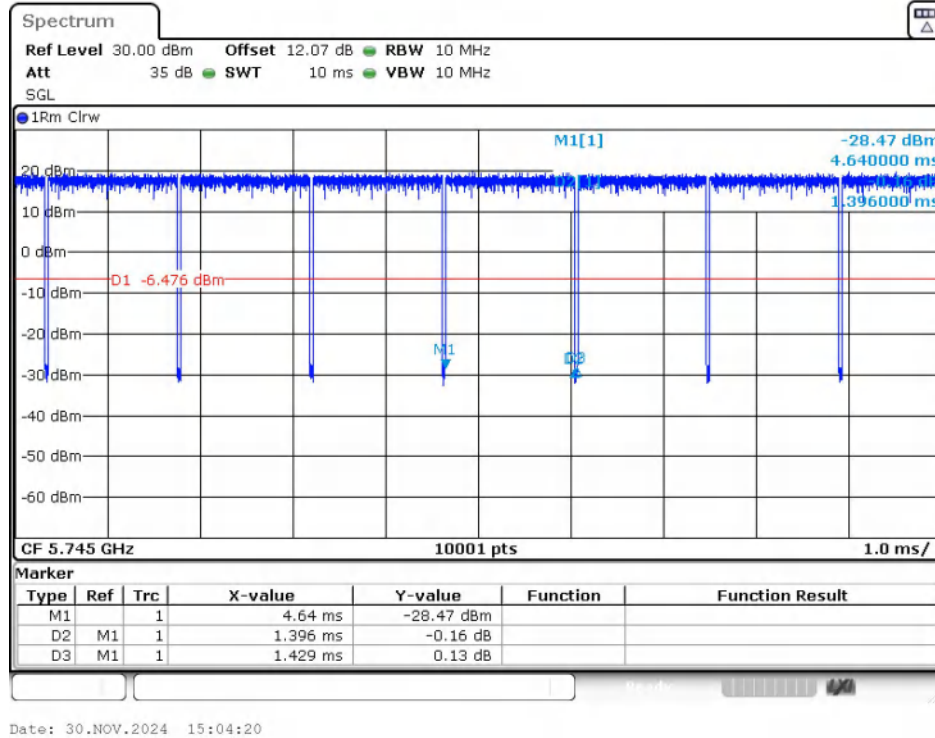
Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 155_80MHz_Antenna 1

7) Duty Cycle

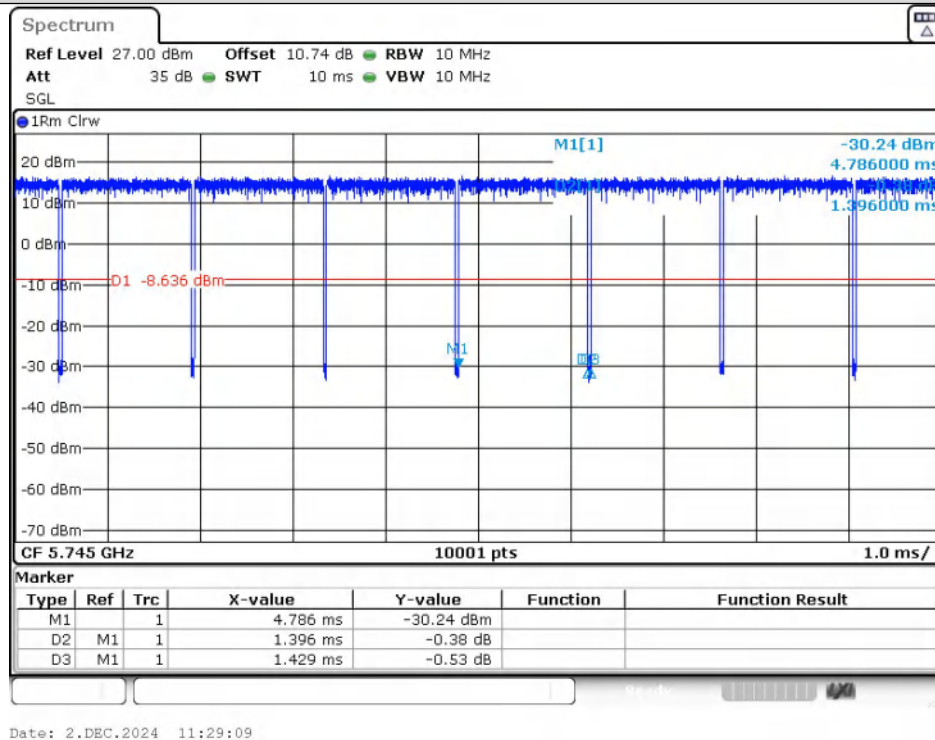
Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	1	1.396	1.429	97.69	0.9769	0.1015	0.7163
			2	1.396	1.429	97.69	0.9769	0.1015	0.7163
		157	1	1.396	1.429	97.69	0.9769	0.1015	0.7163
			2	1.396	1.430	97.62	0.9762	0.1046	0.7163
		165	1	1.396	1.429	97.69	0.9769	0.1015	0.7163
			2	1.395	1.429	97.62	0.9762	0.1046	0.7168
IEEE 802.11n_20	MCS 0	149	1	1.304	1.337	97.53	0.9753	0.1086	0.7669
			2	1.293	1.327	97.44	0.9744	0.1126	0.7734
		157	1	1.304	1.337	97.53	0.9753	0.1086	0.7669
			2	1.293	1.326	97.49	0.9749	0.1104	0.7734
		165	1	1.304	1.337	97.53	0.9753	0.1086	0.7669
			2	1.293	1.327	97.44	0.9744	0.1126	0.7734
IEEE 802.11n_40		151	1	0.650	0.684	94.94	0.9494	0.2255	1.5385
			2	0.650	0.684	94.94	0.9494	0.2255	1.5385
159		1	0.650	0.684	94.94	0.9494	0.2255	1.5385	
		2	0.650	0.684	94.94	0.9494	0.2255	1.5385	
IEEE 802.11ac_20		149	1	1.305	1.339	97.46	0.9746	0.1117	0.7663
			2	1.304	1.338	97.46	0.9746	0.1117	0.7669
		157	1	1.316	1.349	97.55	0.9755	0.1077	0.7599
			2	1.316	1.349	97.55	0.9755	0.1077	0.7599
		165	1	1.305	1.339	97.46	0.9746	0.1117	0.7663
			2	1.316	1.349	97.55	0.9755	0.1077	0.7599
IEEE 802.11ac_40		151	1	0.654	0.688	95.03	0.9503	0.2214	1.5291
			2	0.654	0.688	95.03	0.9503	0.2214	1.5291
		159	1	0.654	0.688	95.03	0.9503	0.2214	1.5291
			2	0.654	0.688	94.96	0.9496	0.2246	1.5291
IEEE 802.11ac_80		155	1	0.325	0.360	90.28	0.9028	0.4441	3.0769
			2	0.325	0.360	90.29	0.9029	0.4436	3.0769

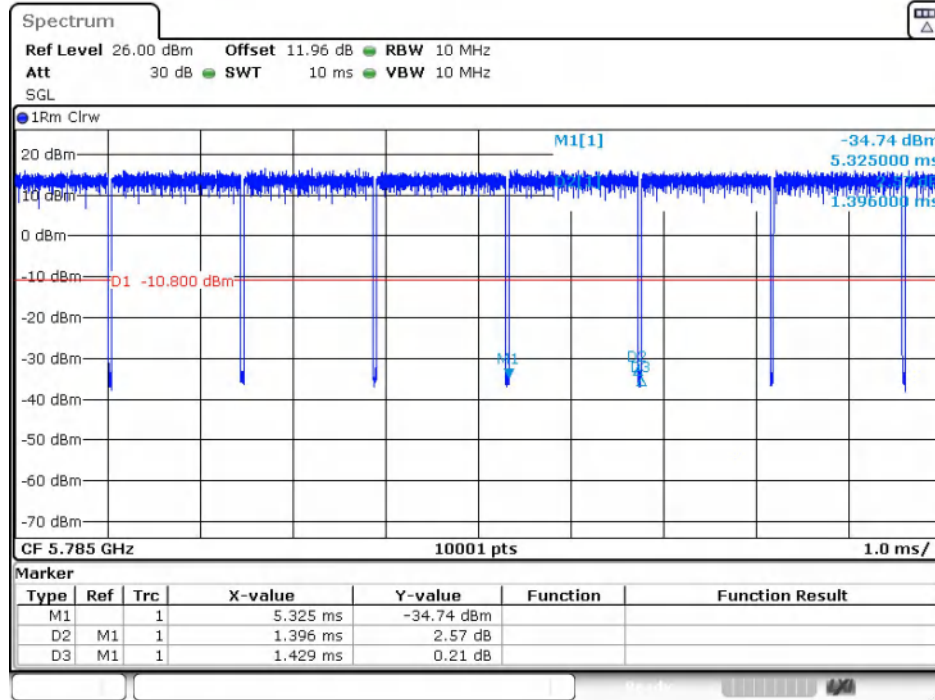
Test Graphs



IEEE 802.11a_20MHz_Channel 149

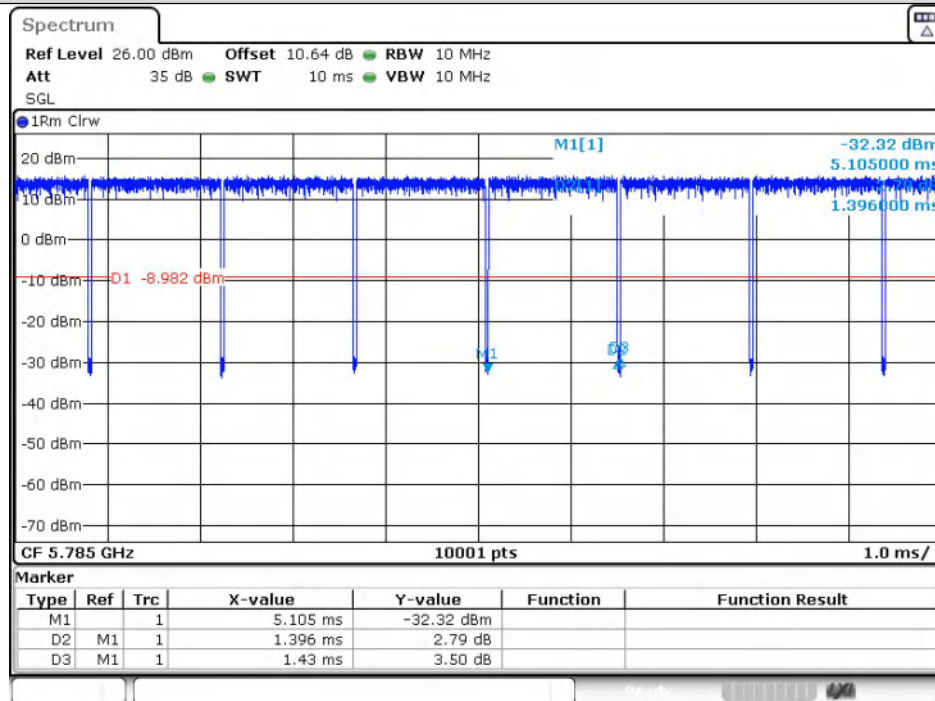


IEEE 802.11a_20MHz_Channel 149



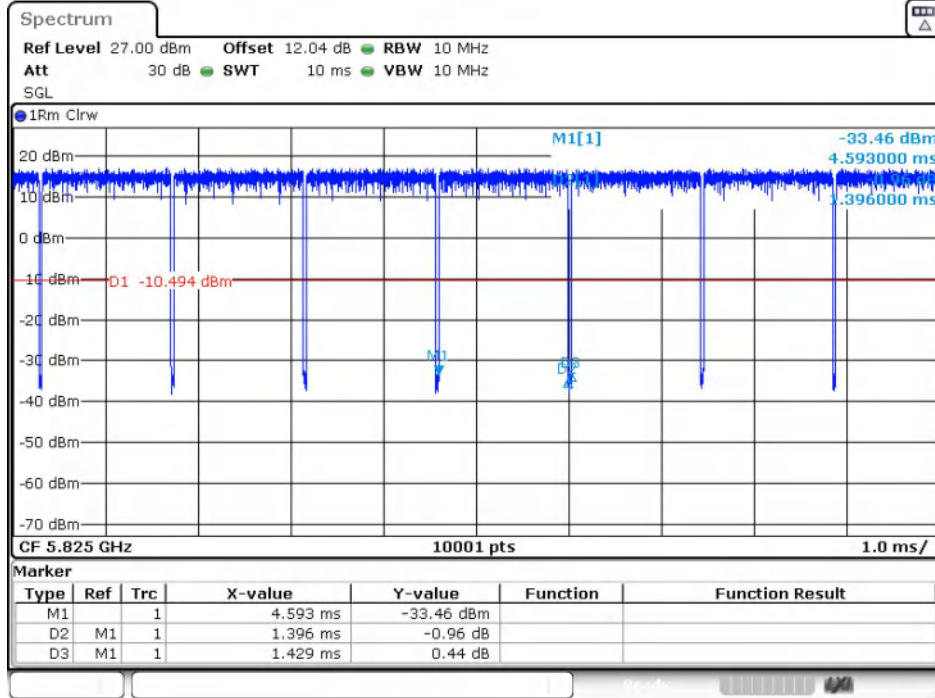
Date: 30.NOV.2024 15:09:55

IEEE 802.11a_20MHz_Channel 157



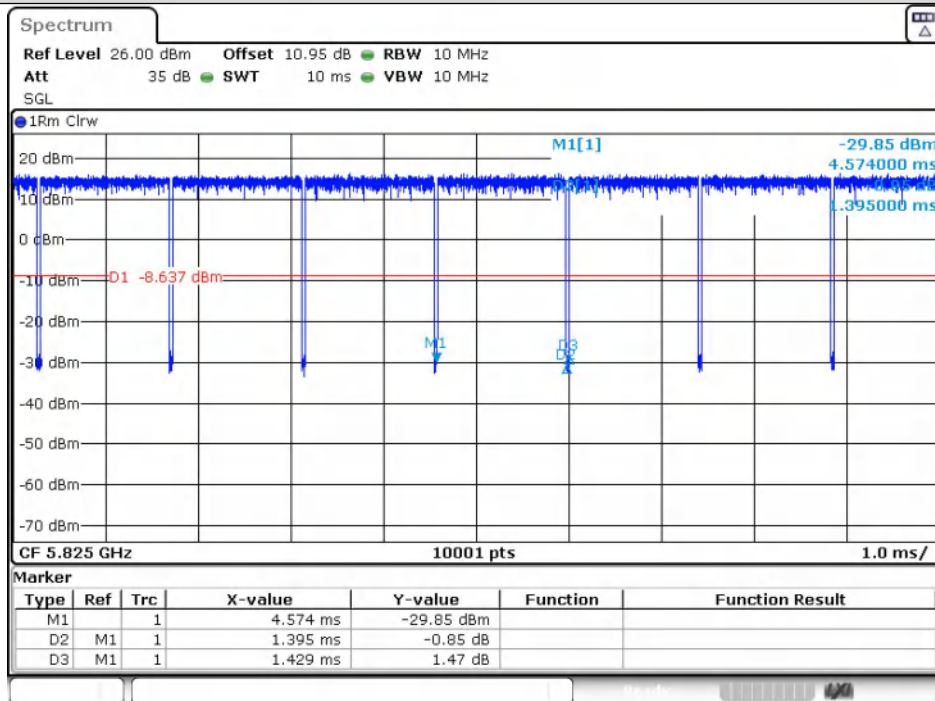
Date: 2.DEC.2024 11:33:26

IEEE 802.11a_20MHz_Channel 157



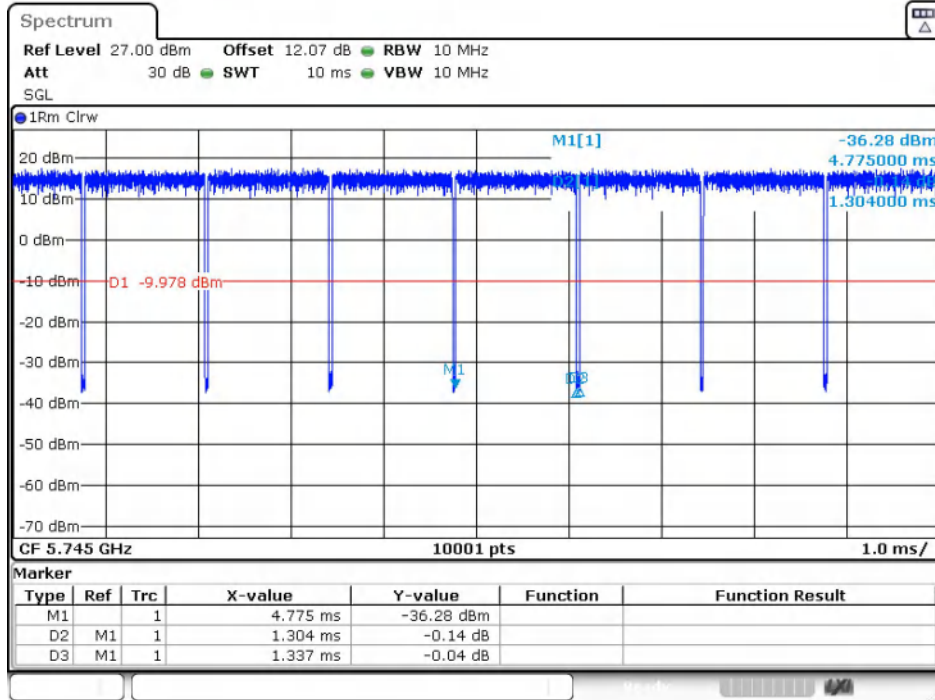
Date: 30.NOV.2024 15:14:12

IEEE 802.11a_20MHz_Channel 165



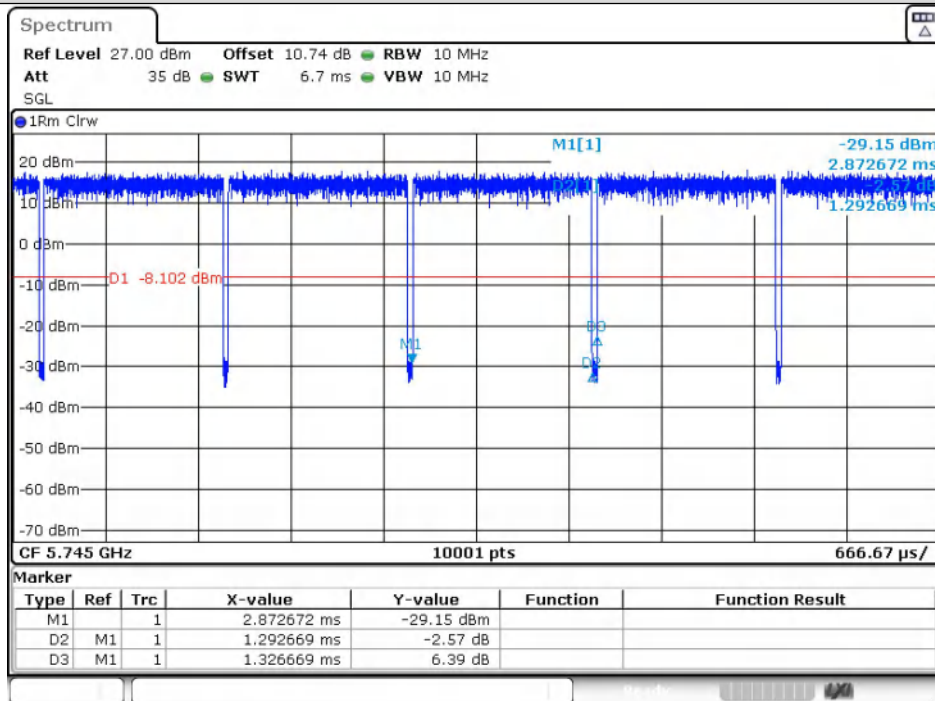
Date: 2.DEC.2024 11:38:40

IEEE 802.11a_20MHz_Channel 165



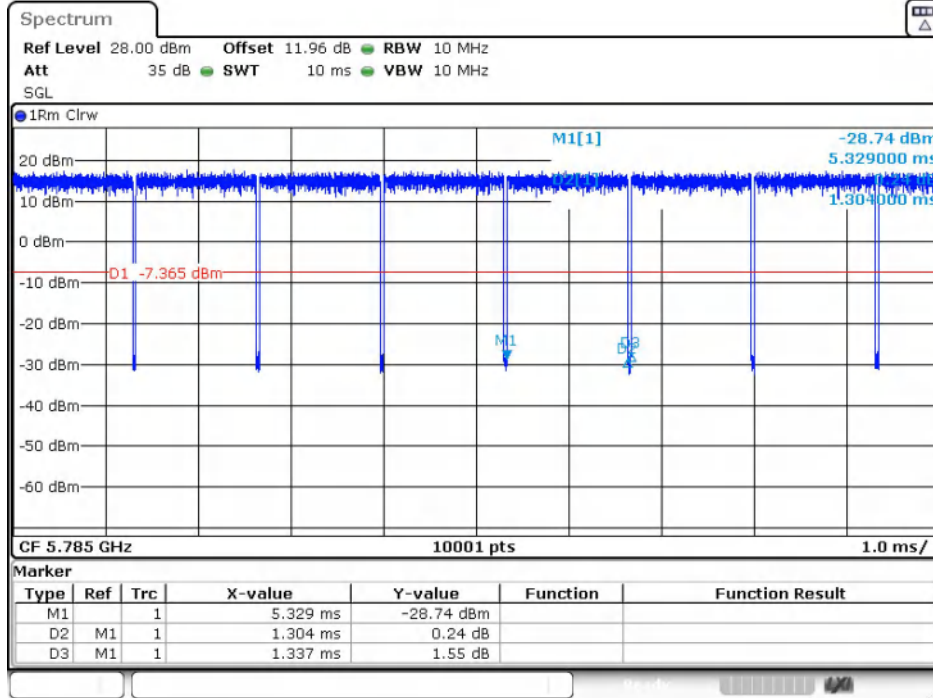
Date: 30.NOV.2024 15:18:17

IEEE 802.11n_20MHz_Channel 149



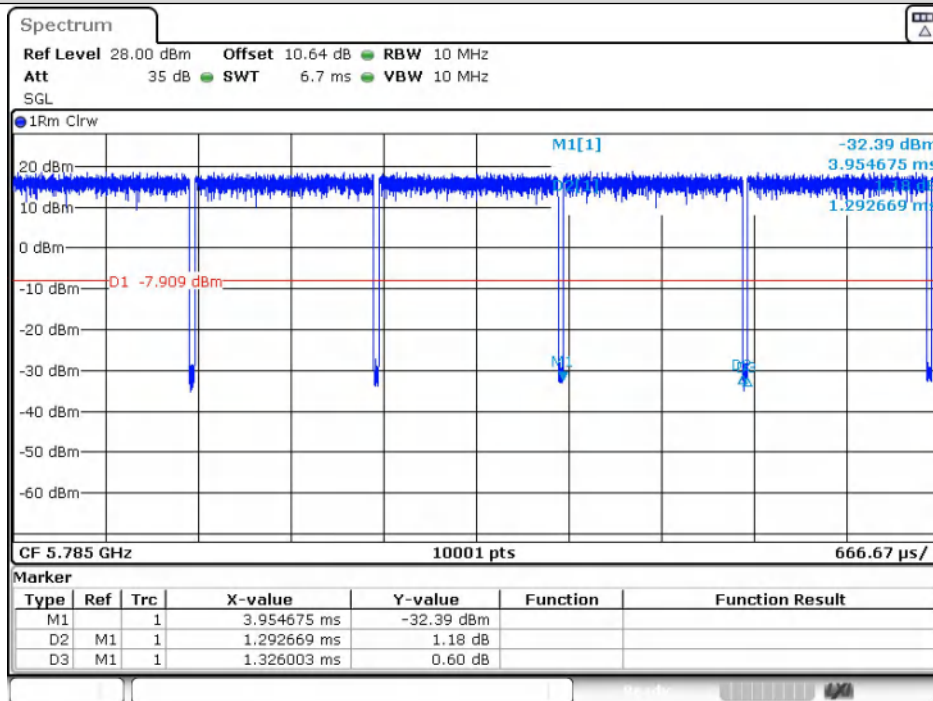
Date: 2.DEC.2024 11:46:50

IEEE 802.11n_20MHz_Channel 149



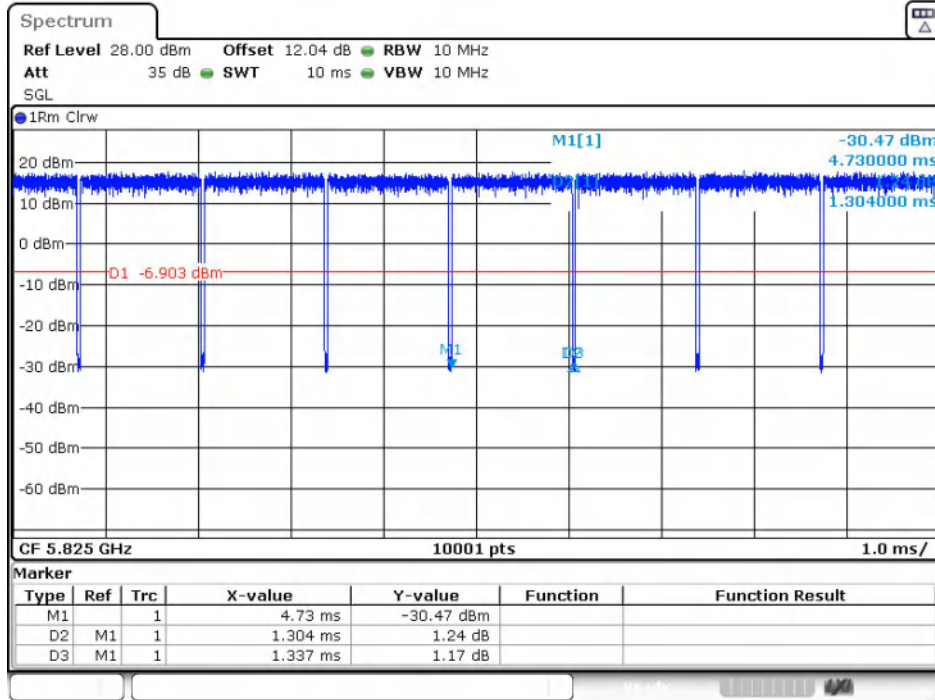
Date: 30.NOV.2024 15:31:59

IEEE 802.11n_20MHz_Channel 157



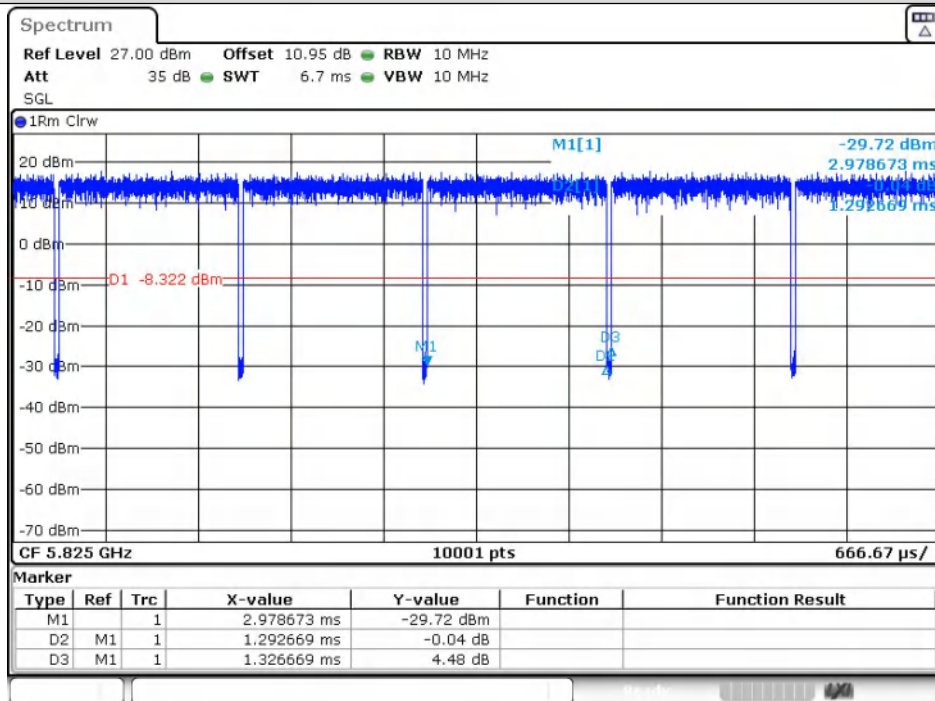
Date: 2.DEC.2024 11:52:37

IEEE 802.11n_20MHz_Channel 157



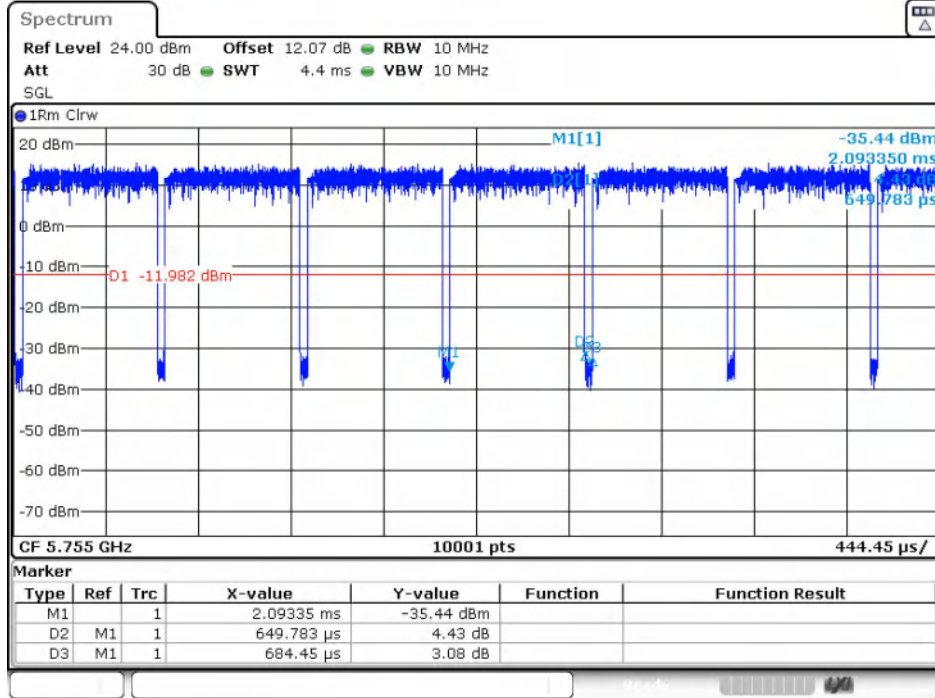
Date: 30.NOV.2024 15:38:39

IEEE 802.11n_20MHz_Channel 165



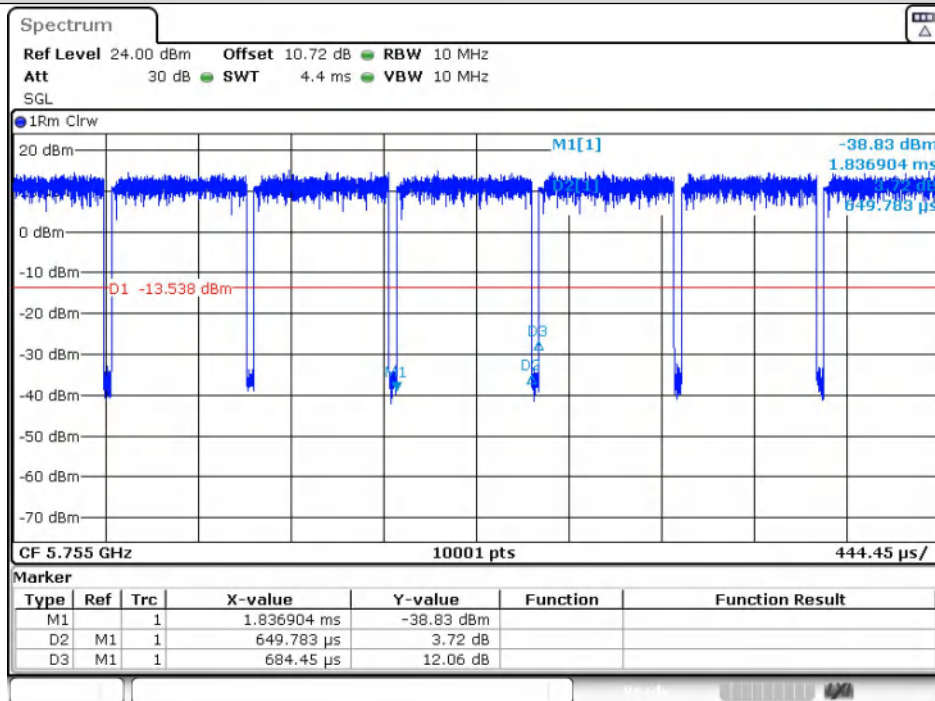
Date: 2.DEC.2024 11:58:00

IEEE 802.11n_20MHz_Channel 165



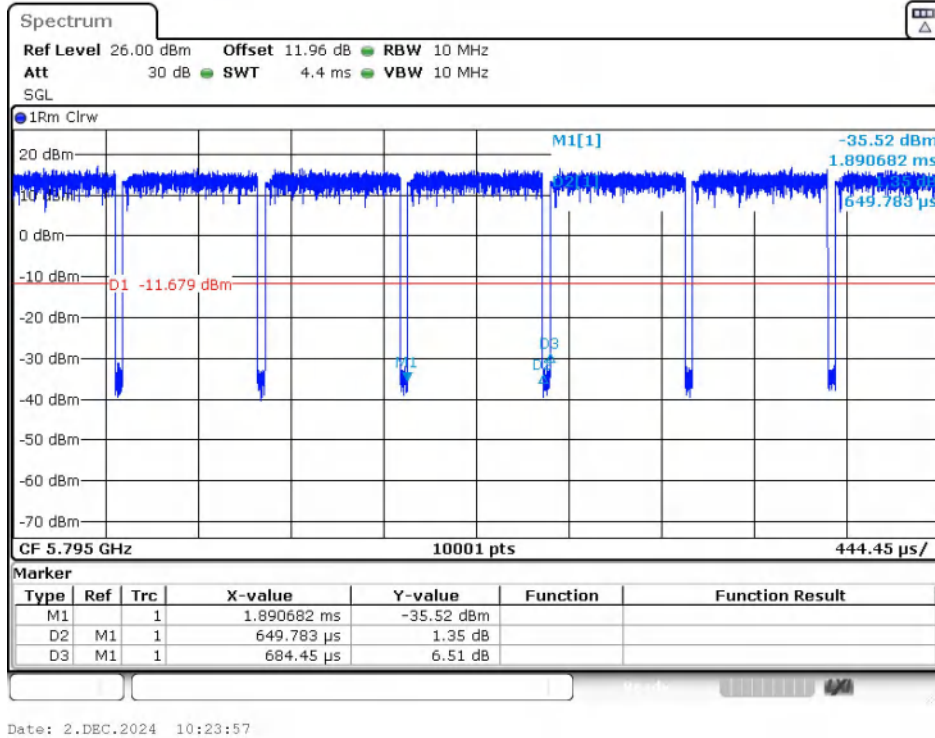
Date: 2.DEC.2024 10:18:38

IEEE 802.11n_40MHz_Channel 151

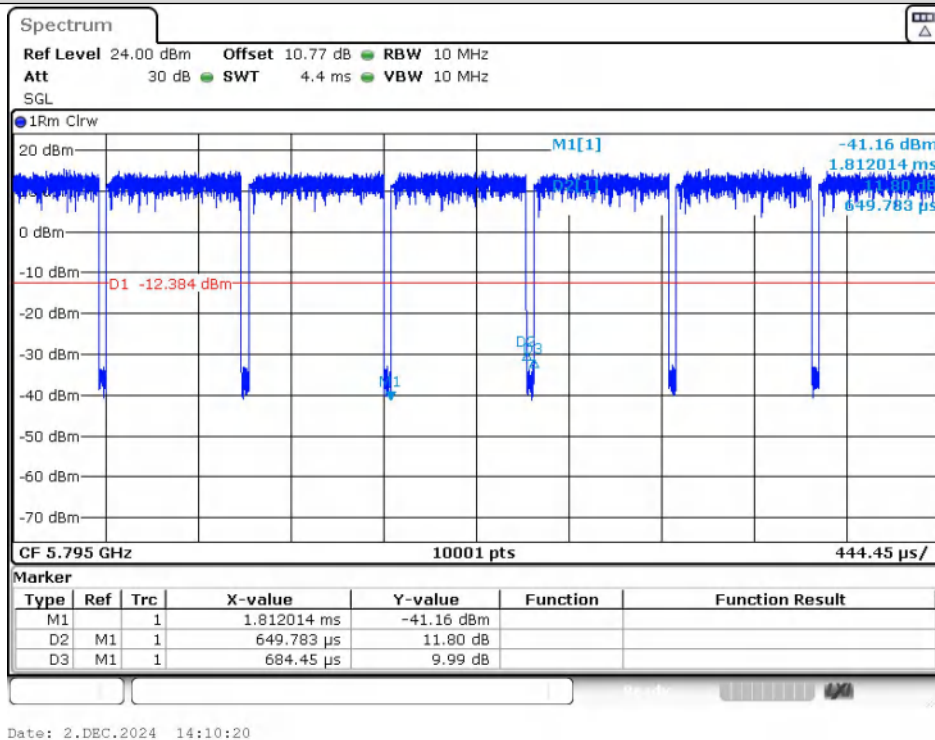


Date: 2.DEC.2024 14:04:51

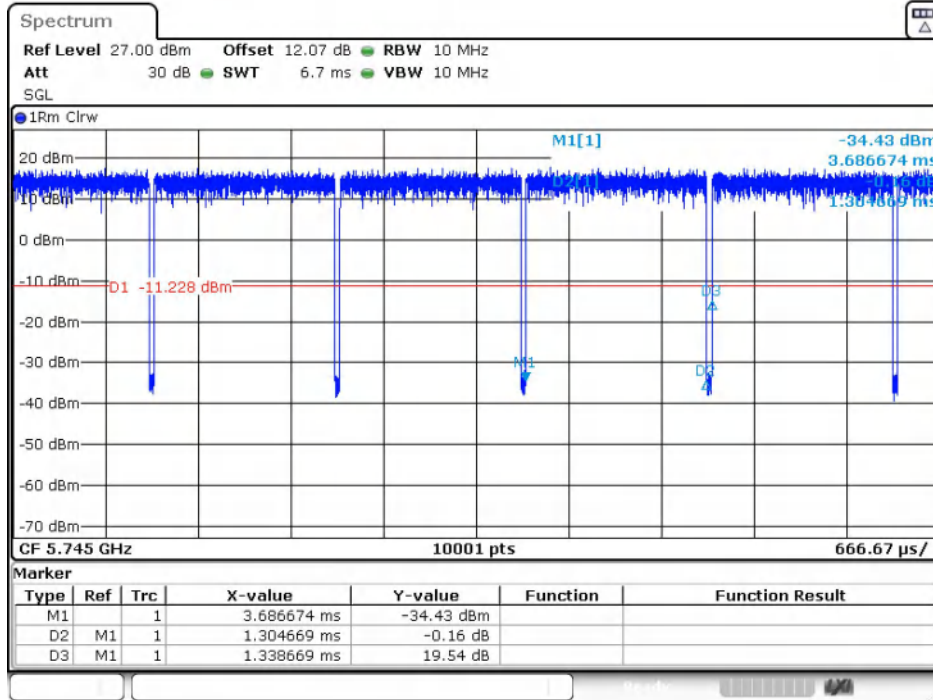
IEEE 802.11n_40MHz_Channel 151



IEEE 802.11n_40MHz_Channel 159

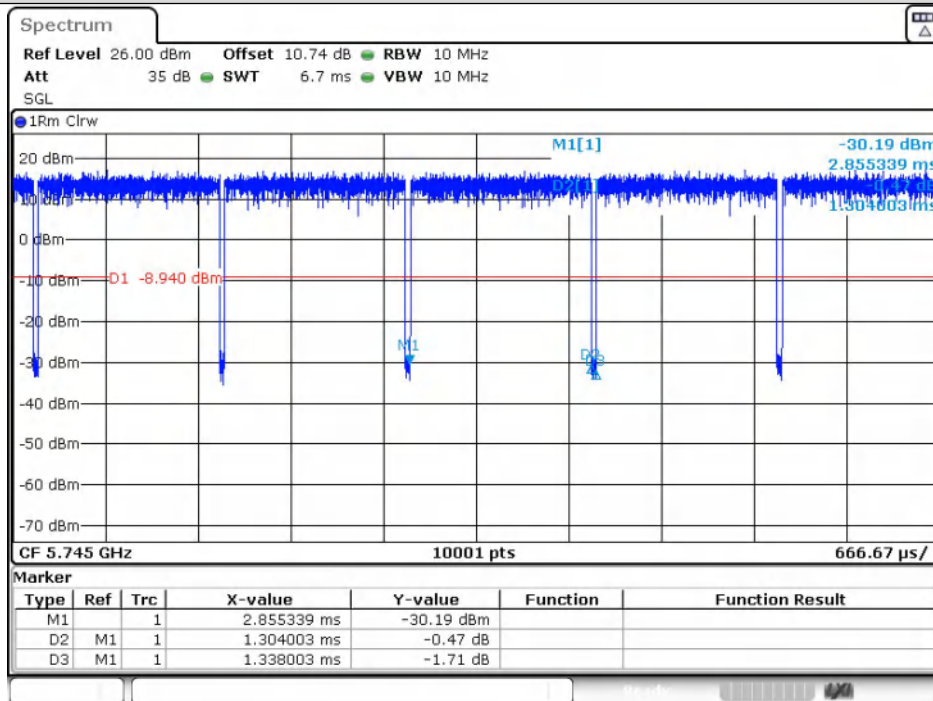


IEEE 802.11n_40MHz_Channel 159



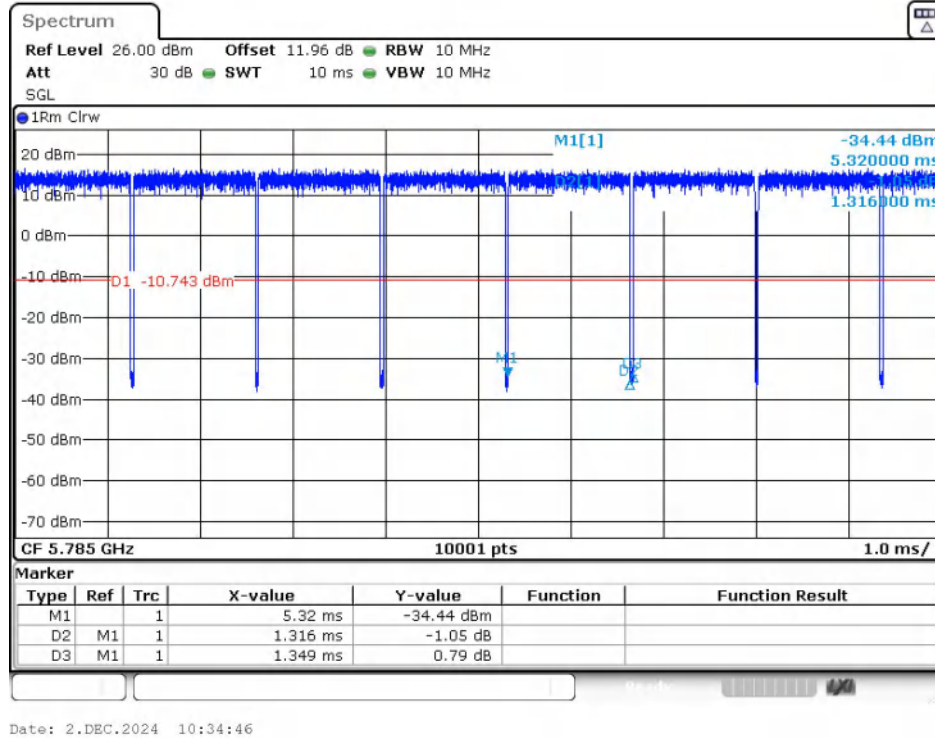
Date: 2.DEC.2024 10:30:24

IEEE 802.11ac_20MHz_Channel 149

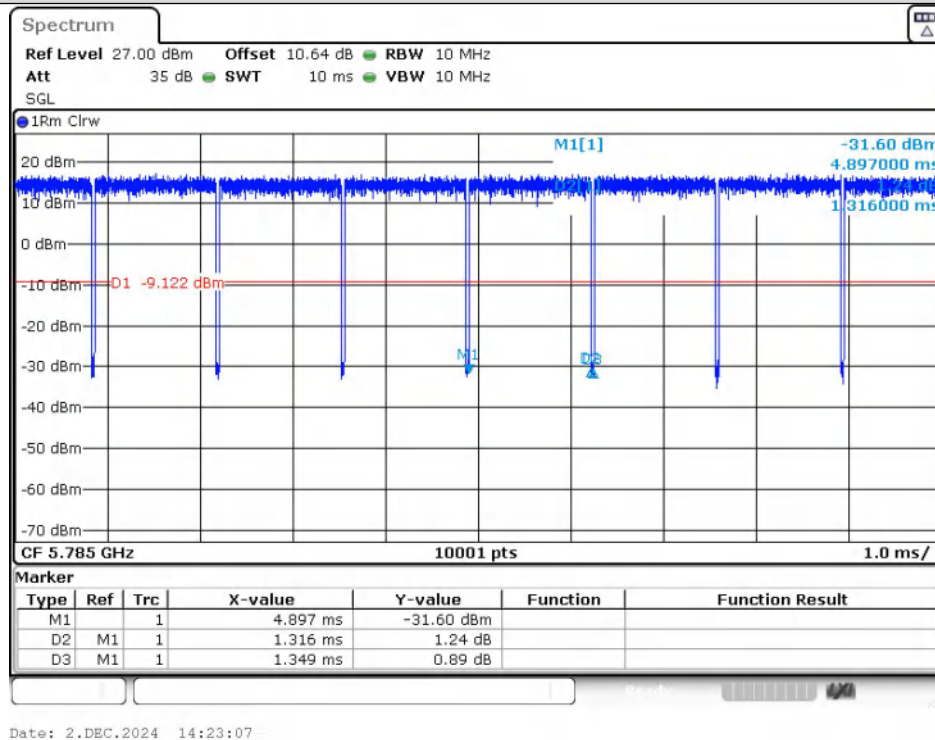


Date: 2.DEC.2024 14:18:17

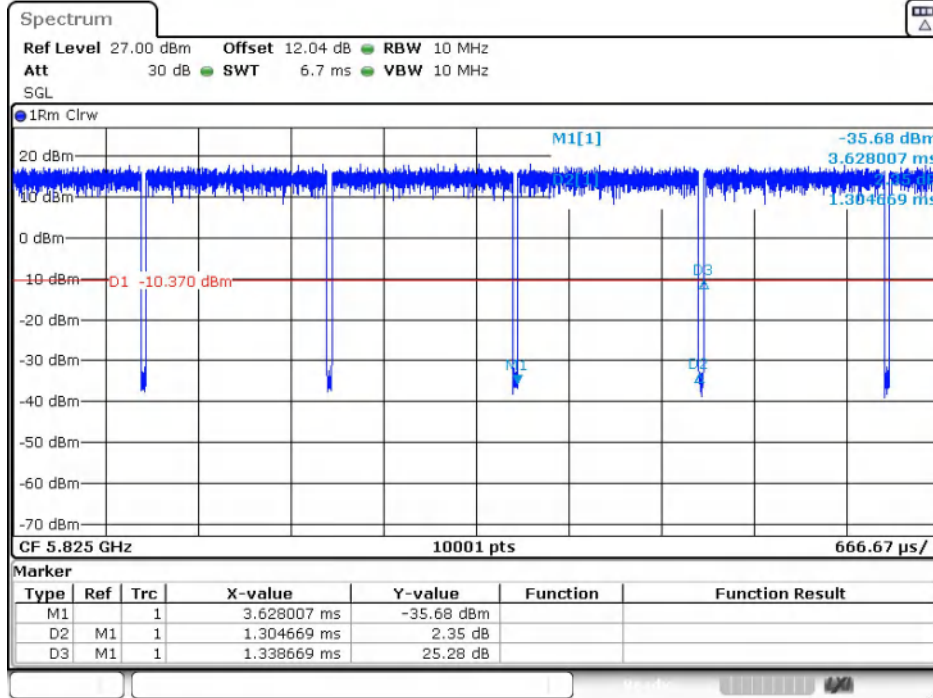
IEEE 802.11ac_20MHz_Channel 149



IEEE 802.11ac_20MHz_Channel 157

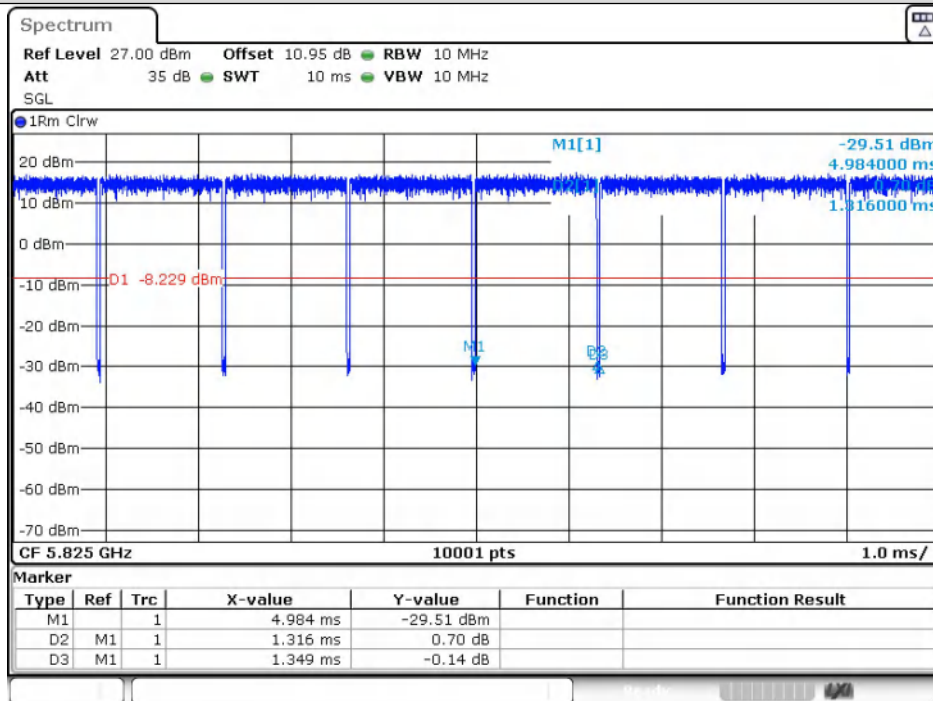


IEEE 802.11ac_20MHz_Channel 157



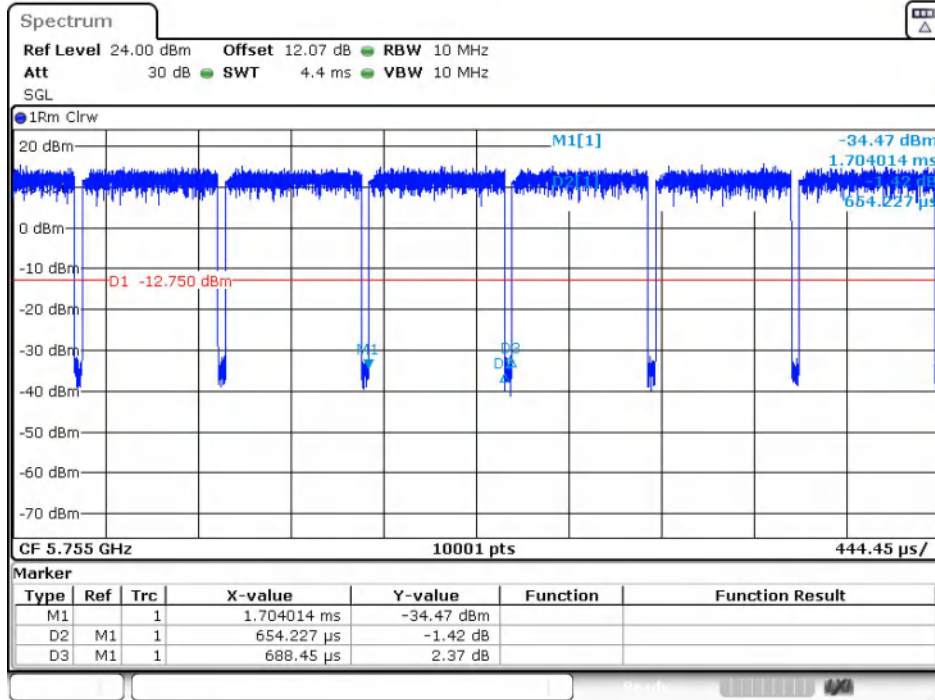
Date: 2.DEC.2024 10:38:45

IEEE 802.11ac_20MHz_Channel 165



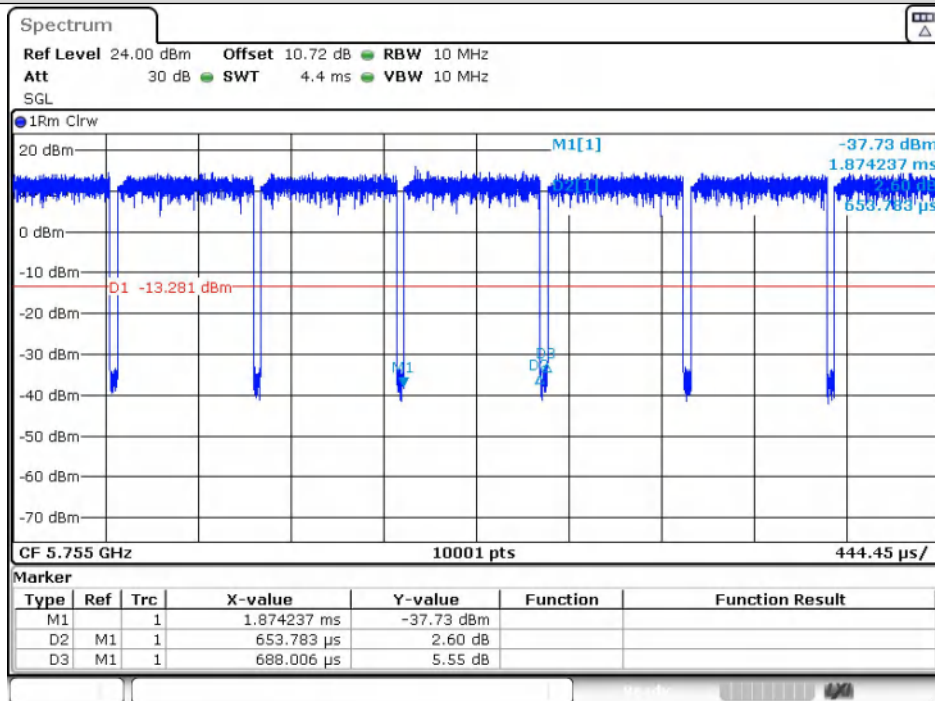
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IEEE 802.11ac_20MHz_Channel 165



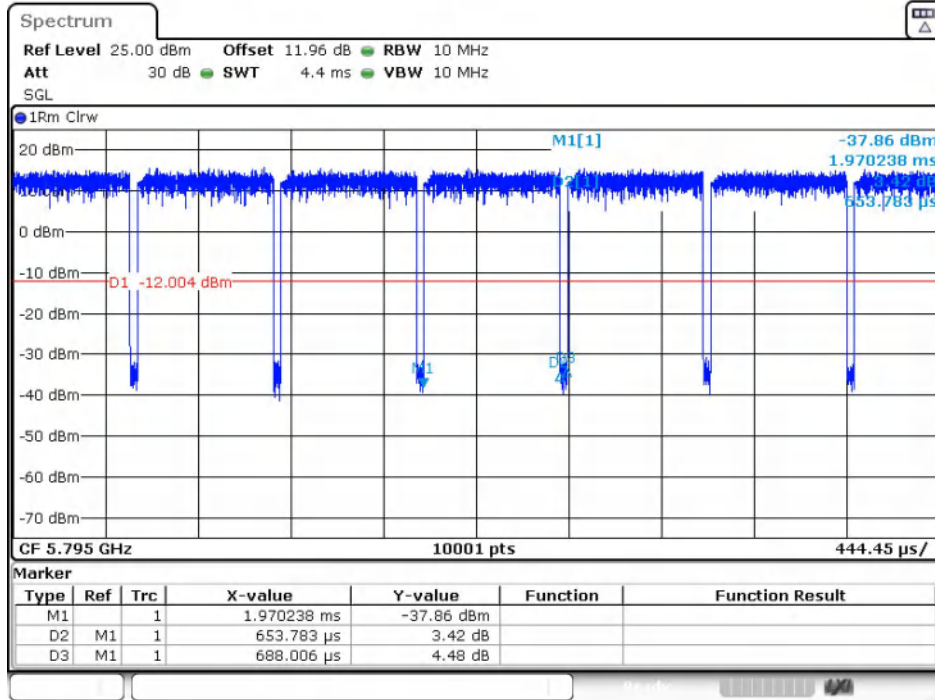
Date: 2.DEC.2024 10:43:50

IEEE 802.11ac_40MHz_Channel 151



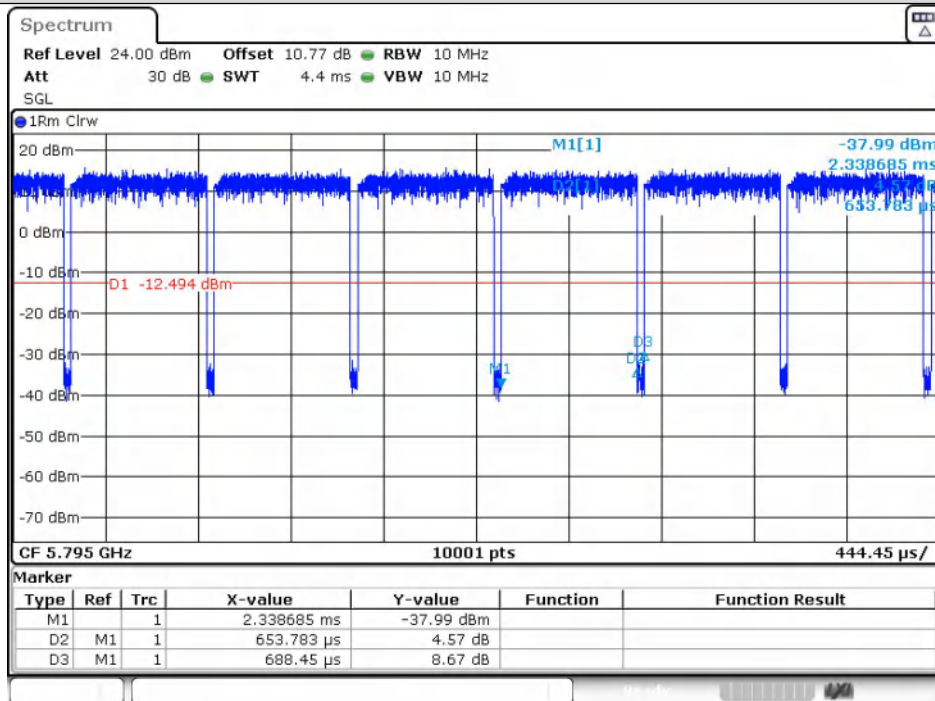
Date: 2.DEC.2024 14:33:31

IEEE 802.11ac_40MHz_Channel 151



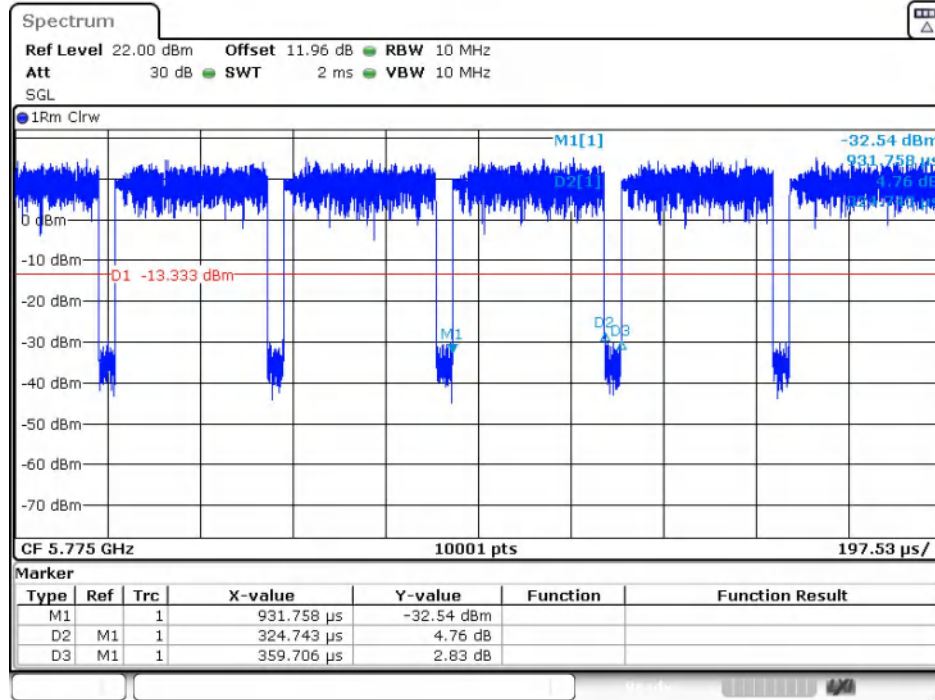
Date: 2.DEC.2024 10:55:55

IEEE 802.11ac_40MHz_Channel 159



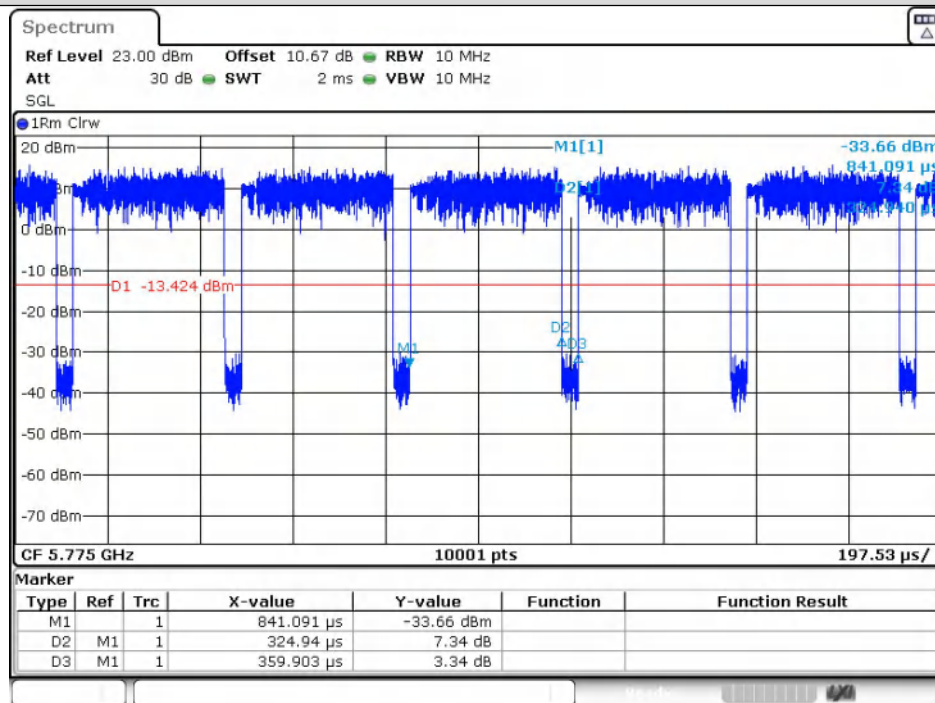
Date: 2.DEC.2024 14:39:05

IEEE 802.11ac_40MHz_Channel 159



Date: 2.DEC.2024 11:26:22

IEEE 802.11ac_80MHz_Channel 155



Date: 2.DEC.2024 14:46:17

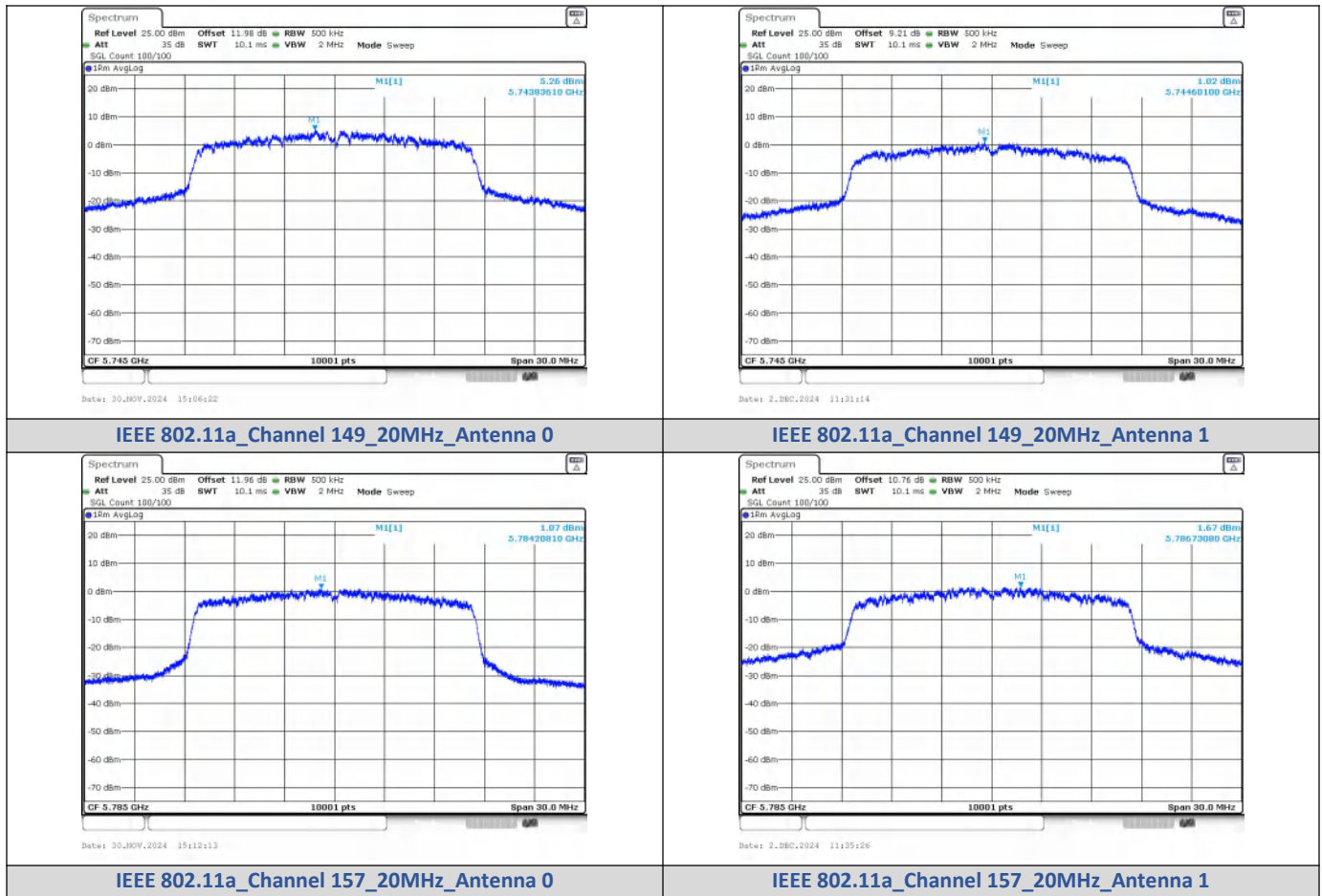
IEEE 802.11ac_80MHz_Channel 155

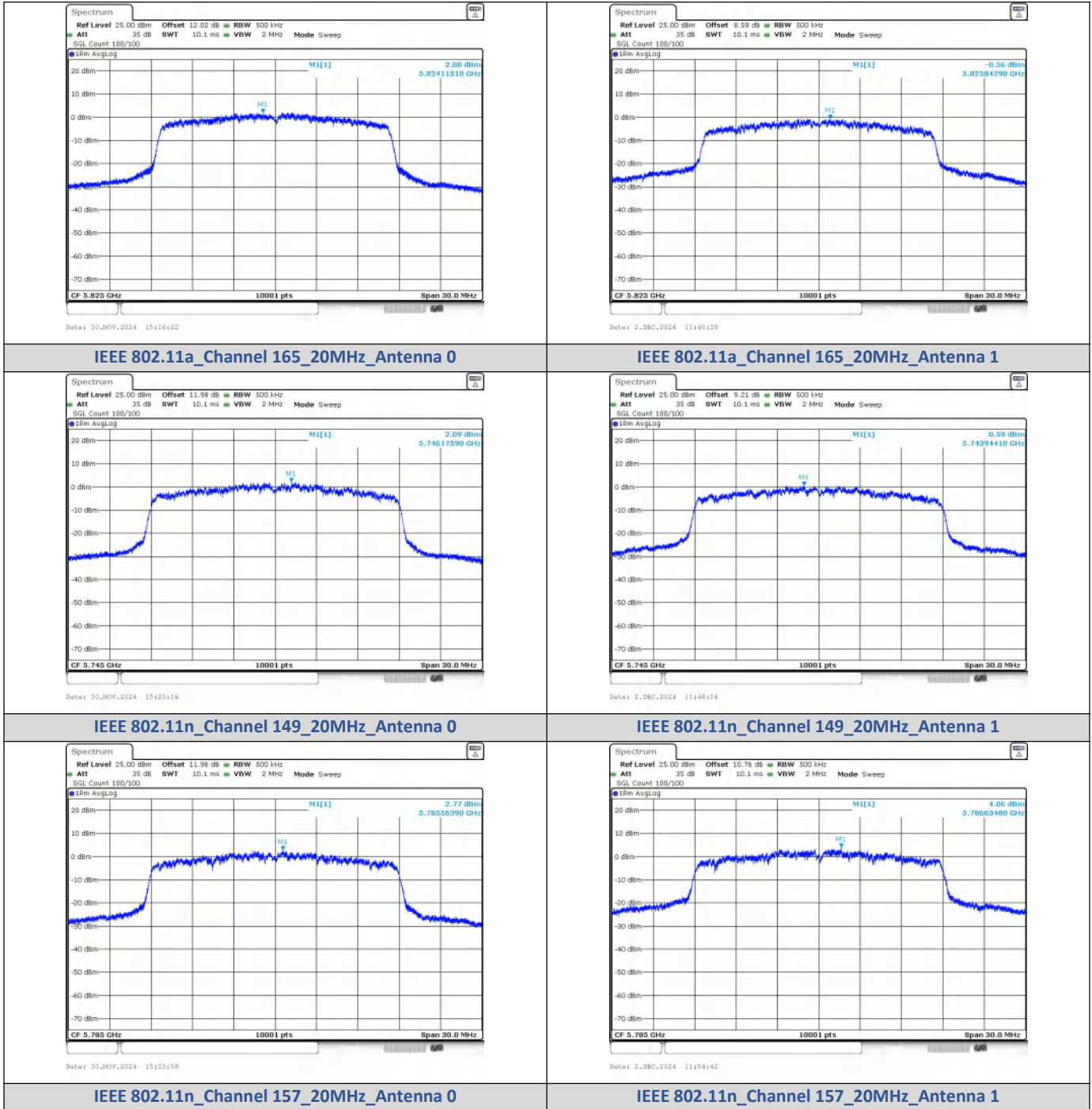
8) Peak Power Spectral Density

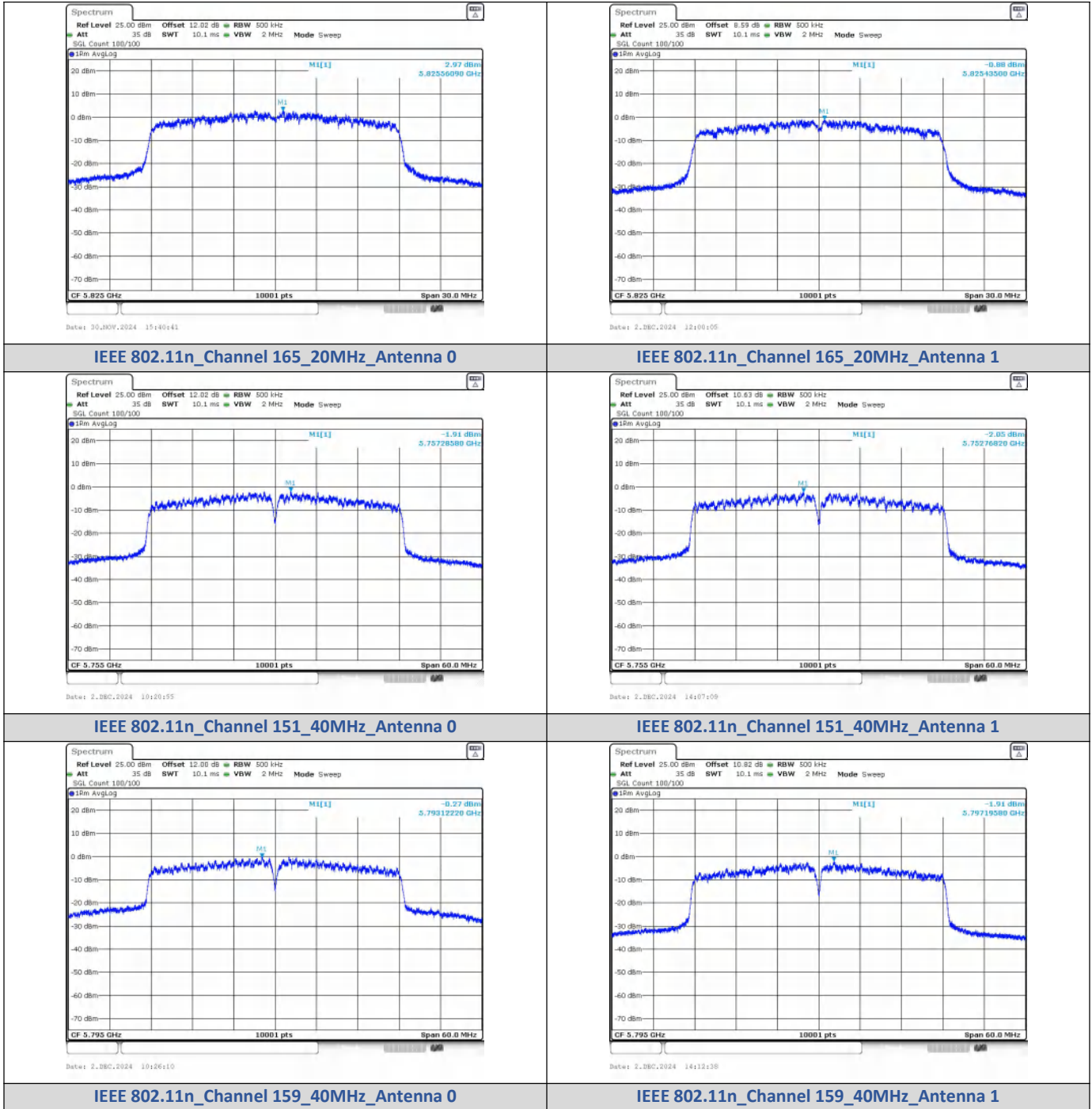
Test Result

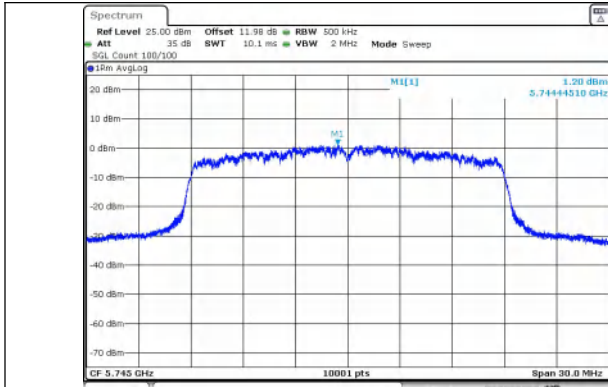
Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 1 Meas PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	149	5.260	1.020	30	PASS
	157	1.070	1.670		PASS
	165	2.080	-0.560		PASS
IEEE 802.11n_20	149	2.090	0.590		PASS
	157	2.770	4.060		PASS
	165	2.970	-0.880		PASS
IEEE 802.11n_40	151	-1.910	-2.050		PASS
	159	-0.270	-1.910		PASS
IEEE 802.11ac_20	149	1.200	-0.290		PASS
	157	0.760	2.280		PASS
	165	2.000	-0.030		PASS
IEEE 802.11ac_40	151	-1.820	-2.260		PASS
	159	-1.280	-1.670		PASS
IEEE 802.11ac_80	155	-5.770	-5.730		PASS

Test Graphs



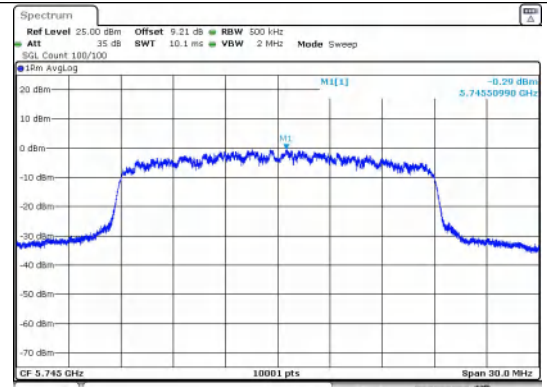






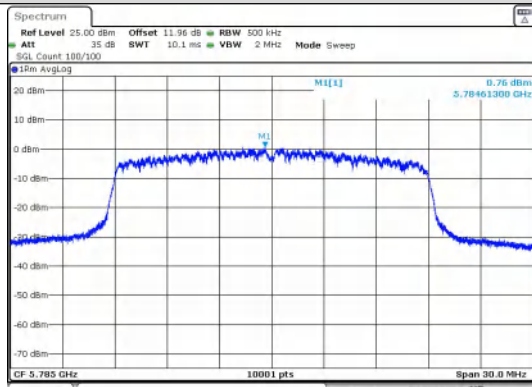
Date: 2.28C.2024 10:22:38

IEEE 802.11ac_Channel 149_20MHz_Antenna 0



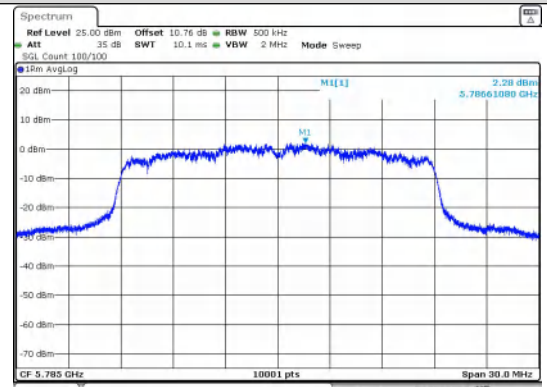
Date: 2.28C.2024 14:20:52

IEEE 802.11ac_Channel 149_20MHz_Antenna 1



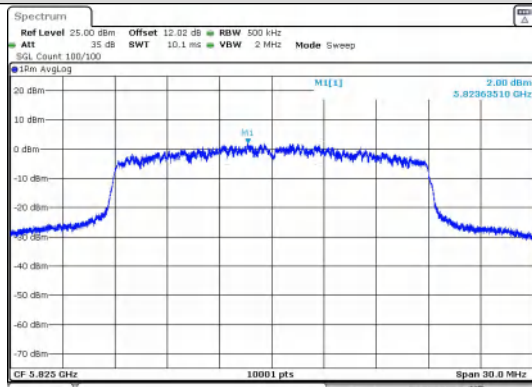
Date: 2.28C.2024 10:26:55

IEEE 802.11ac_Channel 157_20MHz_Antenna 0



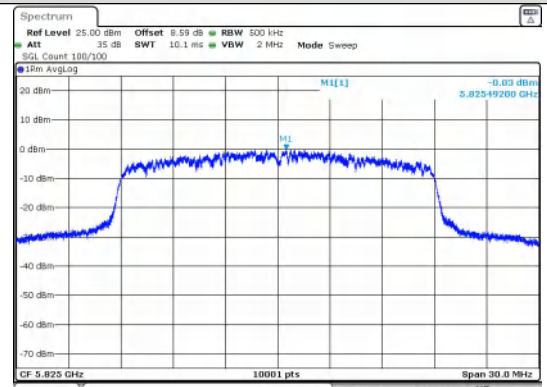
Date: 2.28C.2024 14:25:08

IEEE 802.11ac_Channel 157_20MHz_Antenna 1



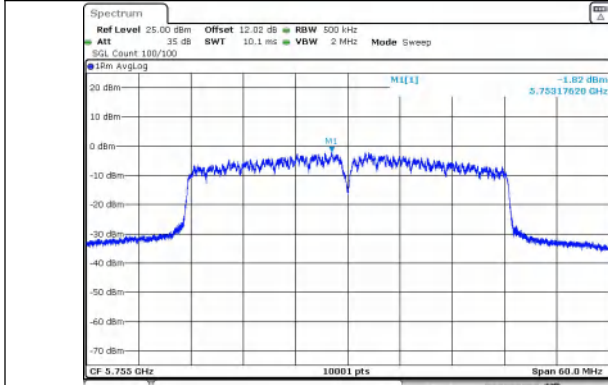
Date: 2.28C.2024 10:40:48

IEEE 802.11ac_Channel 165_20MHz_Antenna 0



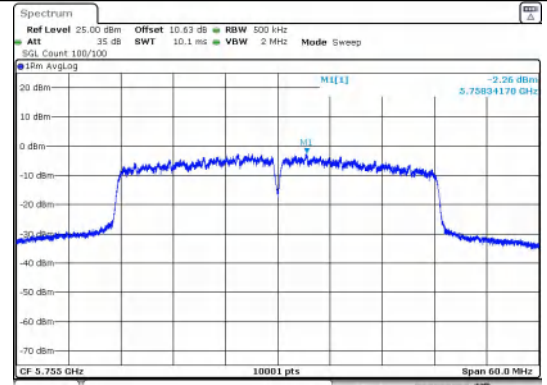
Date: 2.28C.2024 14:31:31

IEEE 802.11ac_Channel 165_20MHz_Antenna 1



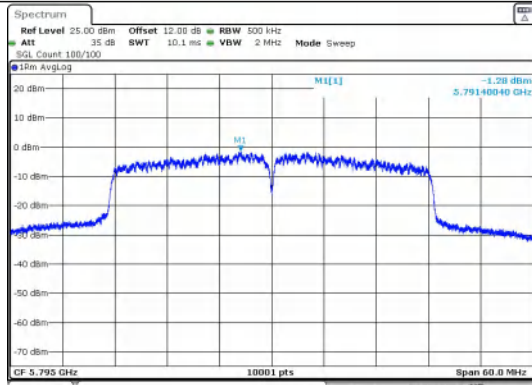
Date: 2.28C.2024 10:45:52

IEEE 802.11ac_Channel 151_40MHz_Antenna 0



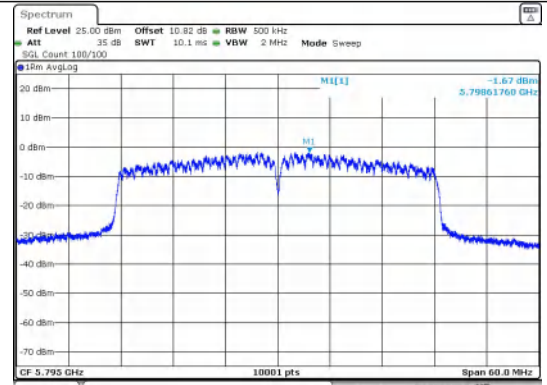
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IEEE 802.11ac_Channel 151_40MHz_Antenna 1



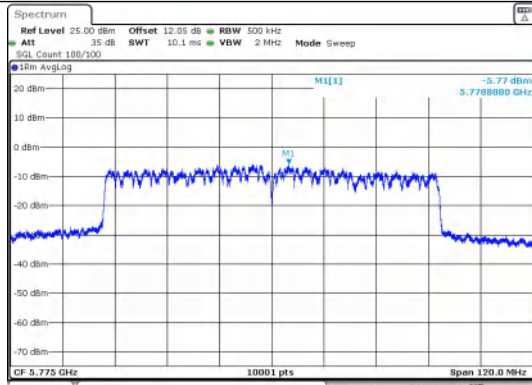
Date: 2.28C.2024 10:56:12

IEEE 802.11ac_Channel 159_40MHz_Antenna 0



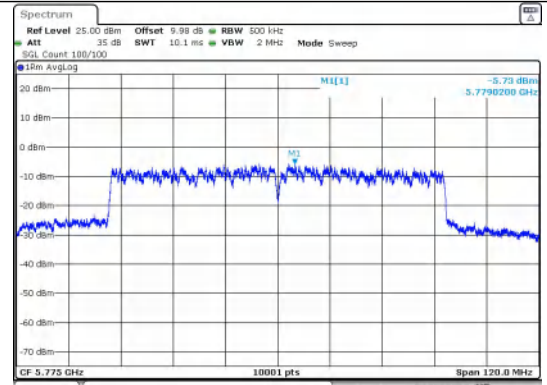
Date: 2.28C.2024 14:41:09

IEEE 802.11ac_Channel 159_40MHz_Antenna 1



Date: 2.28C.2024 11:02:47

IEEE 802.11ac_Channel 155_80MHz_Antenna 0



Date: 2.28C.2024 14:48:35

IEEE 802.11ac_Channel 155_80MHz_Antenna 1

MIMO

Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 1 Meas PSD (dBm/MHz or dBm/0.5MHz)	MIMO (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11n_20	149	-10.720	-14.150	-9.09	30	PASS
	157	-10.930	-13.480	-9.01		PASS
	165	-11.140	-12.500	-8.76		PASS

IEEE 802.11n_40	151	-17.650	-20.340	-15.78		PASS
	159	-19.030	-19.050	-16.03		PASS
IEEE 802.11ac_20	149	-18.900	-17.740	-15.27		PASS
	157	-17.560	-18.930	-15.18		PASS
	165	-18.930	-18.700	-15.80		PASS
IEEE 802.11ac_40	151	-18.600	-18.510	-15.54		PASS
	159	-19.110	-20.880	-16.90		PASS
IEEE 802.11ac_80	155	-20.510	-21.040	-17.76		PASS

--The end--