

Appendix Report

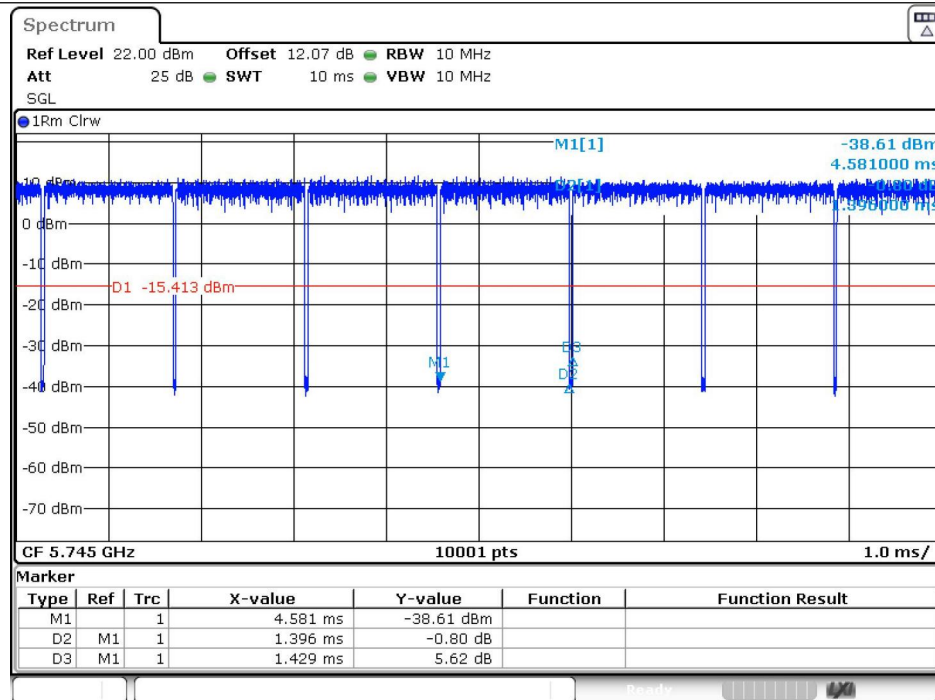
Report No.:	CISRR24122823303
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

Test Result

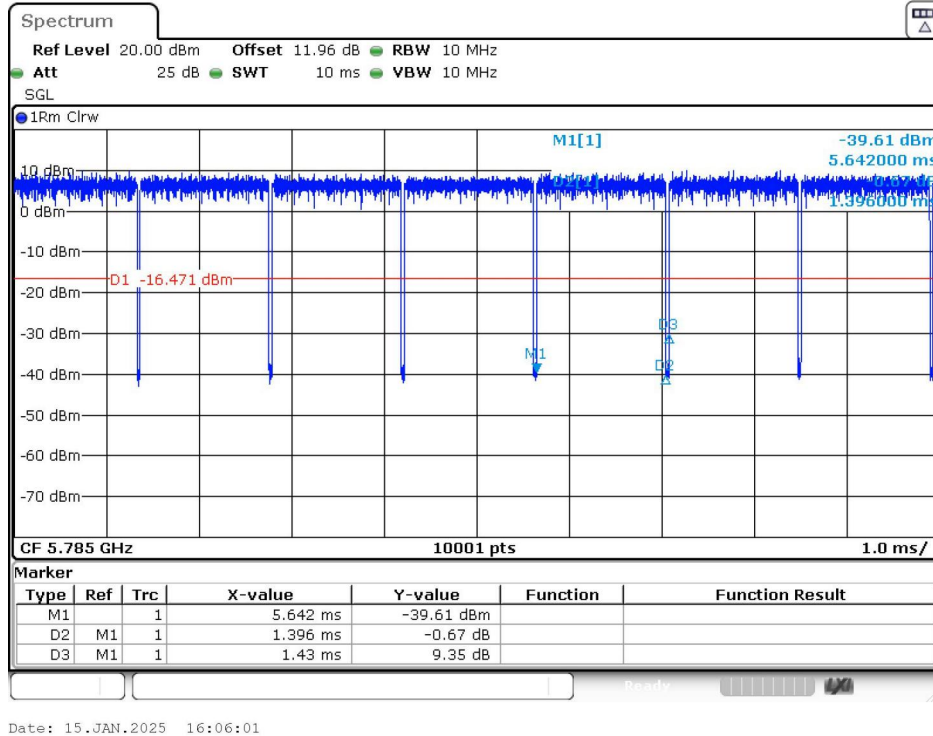
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	1	1.396	1.429	97.69	0.9769	0.1015	0.7163
		157		1.396	1.430	97.62	0.9762	0.1046	0.7163
		165		1.396	1.430	97.62	0.9762	0.1046	0.7163
IEEE 802.11n_20	MCS 0	149		1.293	1.327	97.44	0.9744	0.1126	0.7734
		157		1.304	1.337	97.53	0.9753	0.1086	0.7669
		165		1.304	1.337	97.53	0.9753	0.1086	0.7669
IEEE 802.11n_40		151		0.650	0.684	94.94	0.9494	0.2255	1.5385
		159		0.650	0.684	95.00	0.9500	0.2228	1.5385

Test Graphs

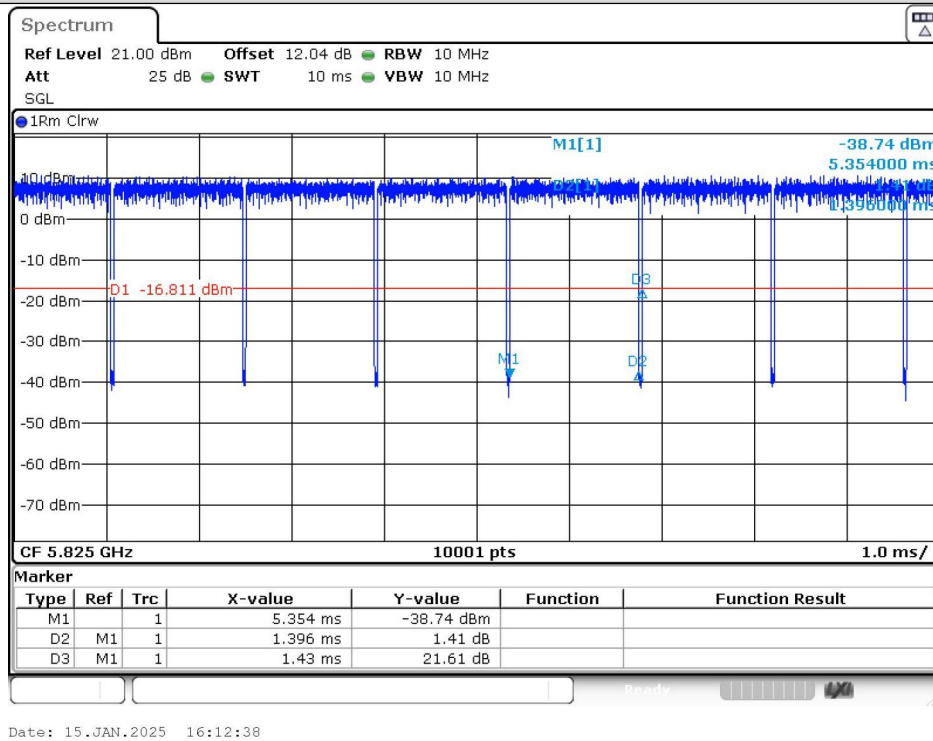


Date: 15.JAN.2025 16:00:02

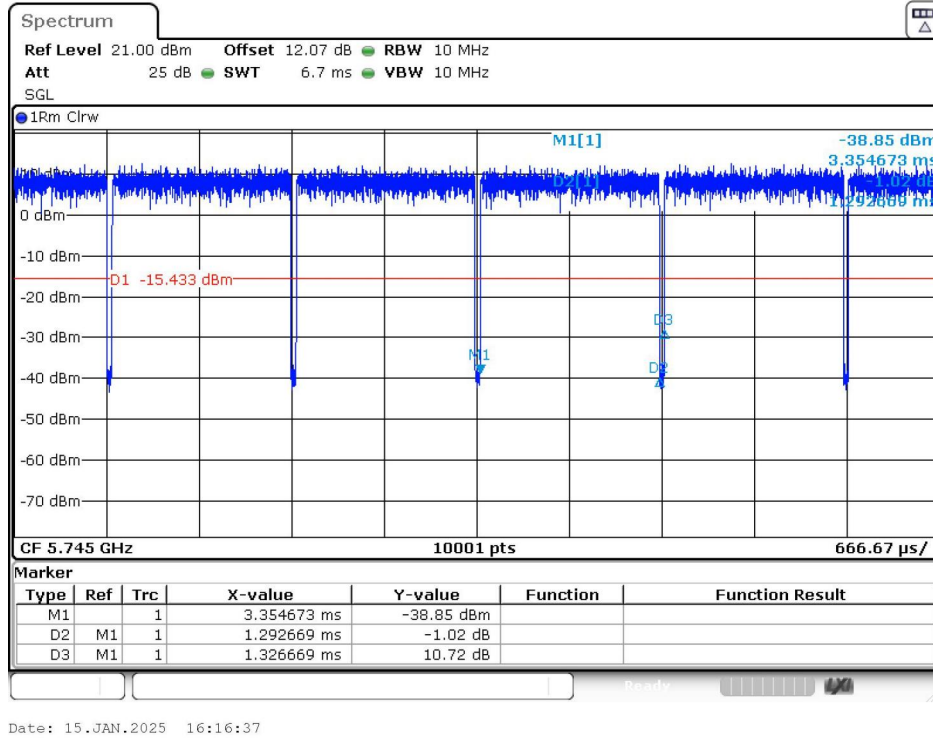
IEEE 802.11a_20MHz_Channel 149



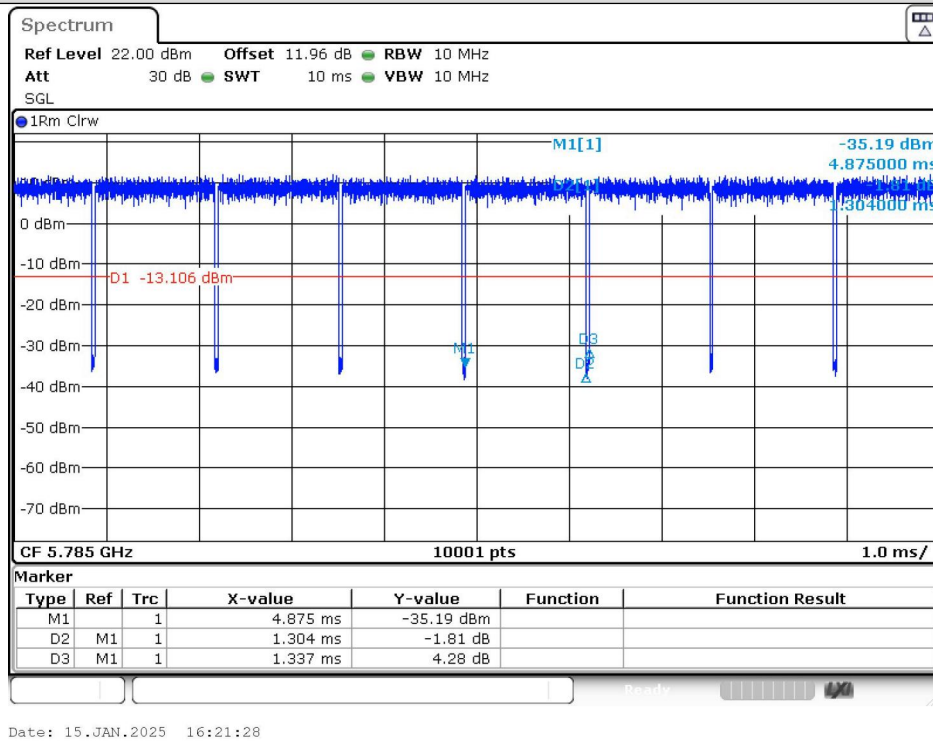
IEEE 802.11a_20MHz_Channel 157



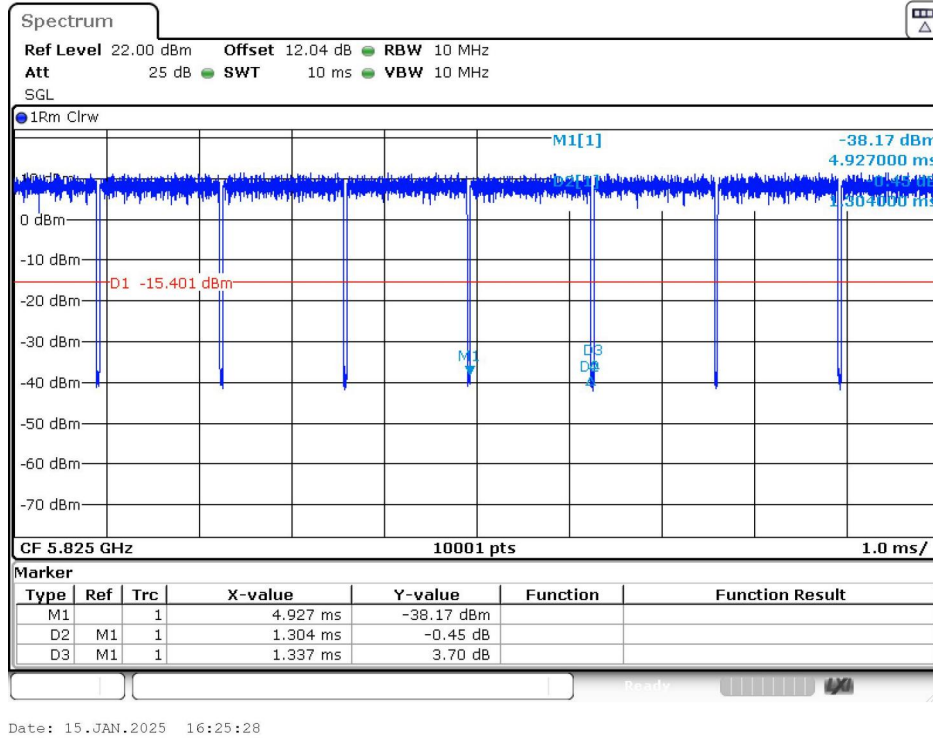
IEEE 802.11a_20MHz_Channel 165



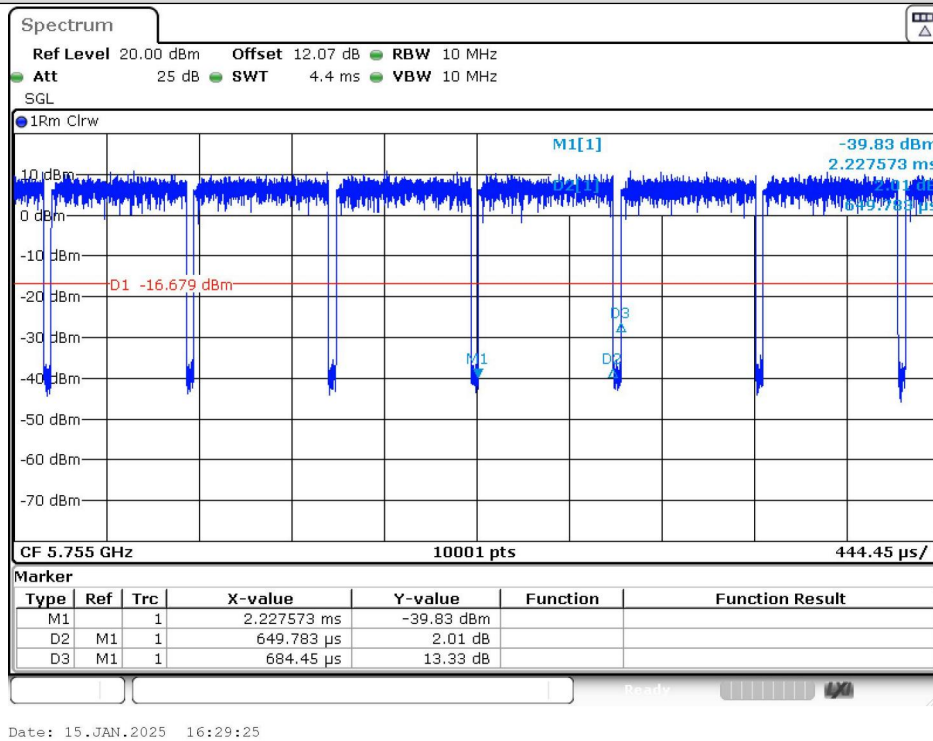
IEEE 802.11n_20MHz_Channel 149



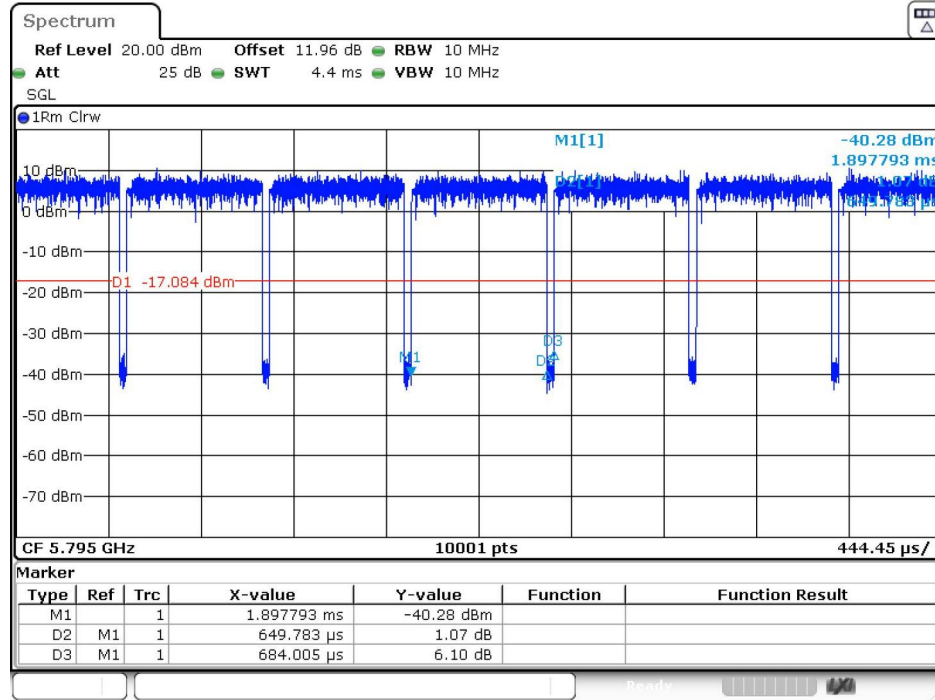
IEEE 802.11n_20MHz_Channel 157



IEEE 802.11n_20MHz_Channel 165



IEEE 802.11n_40MHz_Channel 151



Date: 15.JAN.2025 16:33:41

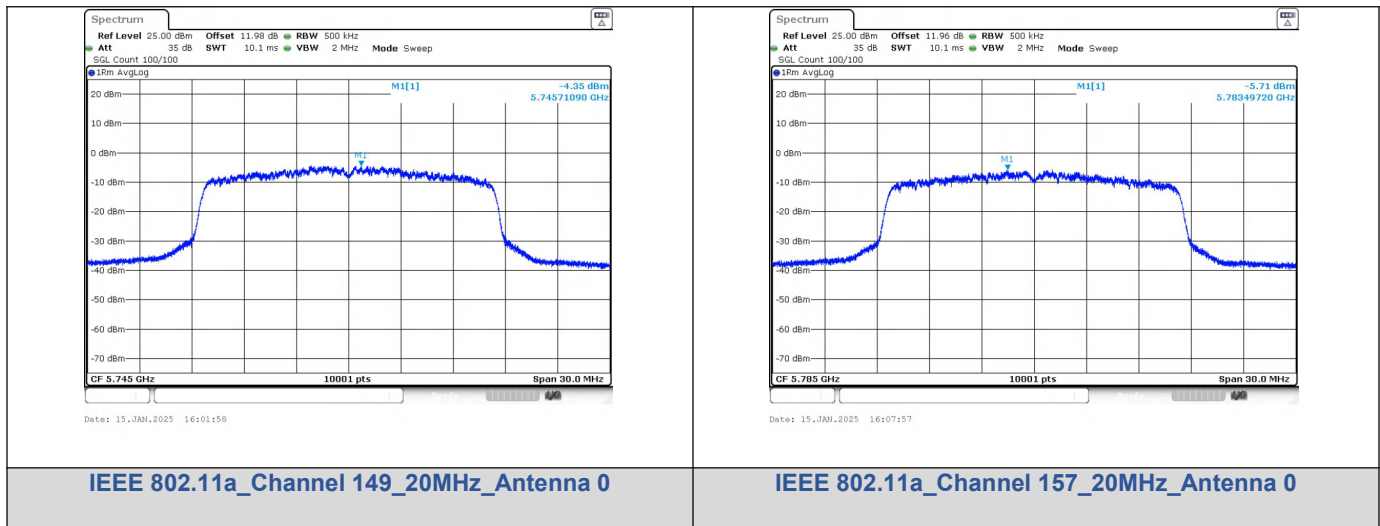
IEEE 802.11n_40MHz_Channel 159

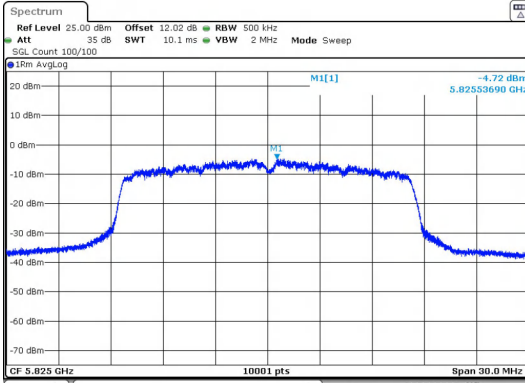
Peak Power Spectral Density

Test Result

Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	149	-4.350	-4.245	30	PASS
	157	-5.710	-5.605		PASS
	165	-4.720	-4.615		PASS
IEEE 802.11n_20	149	-4.400	-4.291		PASS
	157	-3.990	-3.881		PASS
	165	-4.190	-4.081		PASS
IEEE 802.11n_40	151	-7.000	-6.777		PASS
	159	-7.520	-7.297		PASS

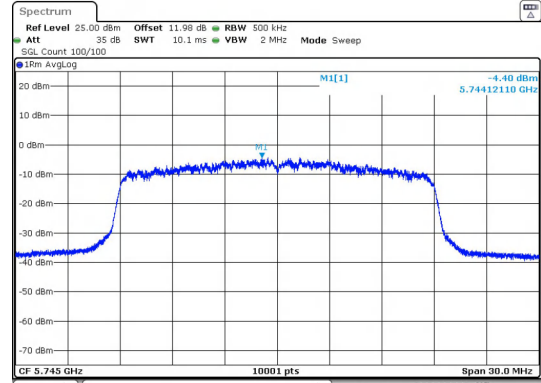
Test Graphs





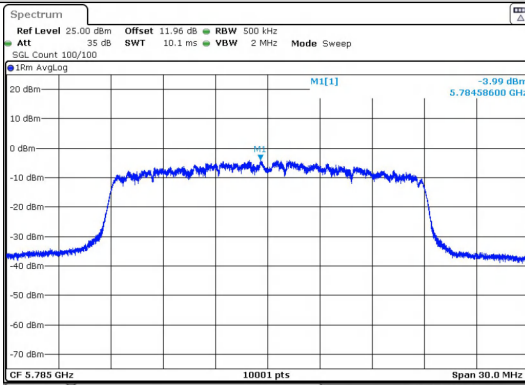
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IEEE 802.11a_Channel 165_20MHz_Antenna 0



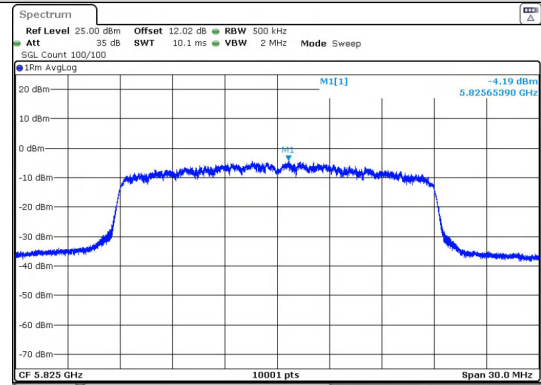
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IEEE 802.11n_Channel 149_20MHz_Antenna 0



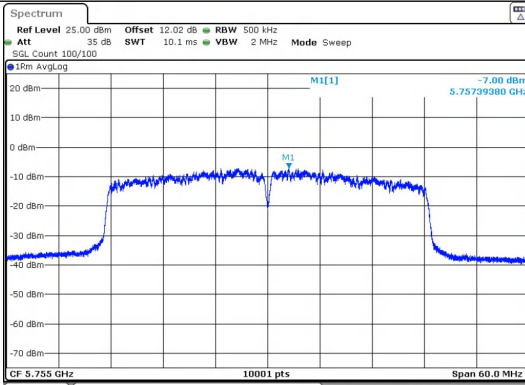
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IEEE 802.11n_Channel 157_20MHz_Antenna 0



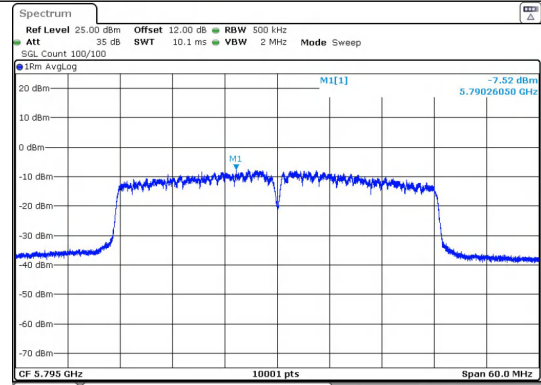
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IEEE 802.11n_Channel 165_20MHz_Antenna 0



Date: 15, JAN, 2025 16:31:19

IEEE 802.11n_Channel 151_40MHz_Antenna 0



Date: 15, JAN, 2025 16:35:36

IEEE 802.11n_Channel 159_40MHz_Antenna 0

Frequency Stability

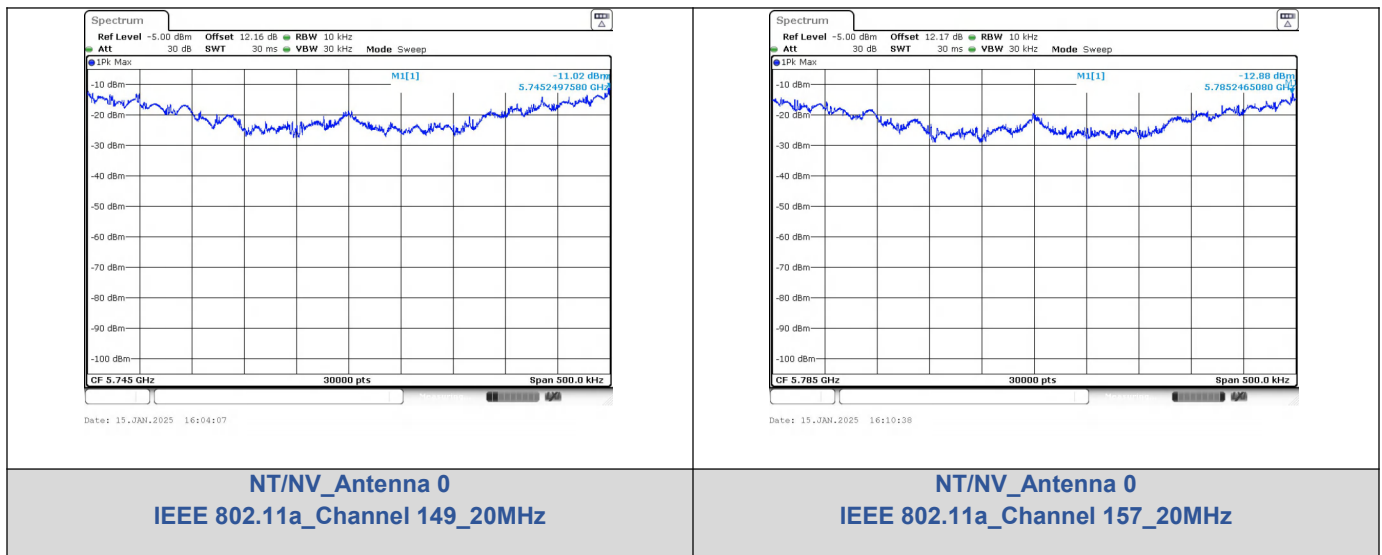
Test Result

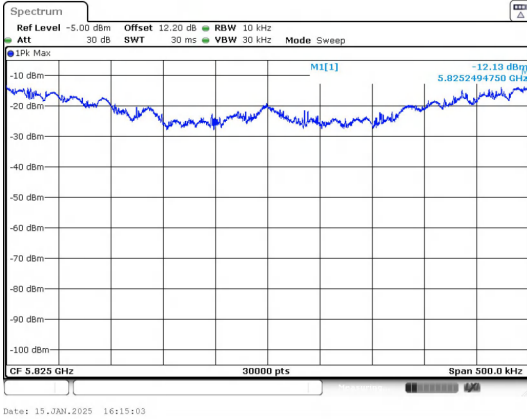
Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11a	149	0	5745.0	5745.249758	43.47	Within authorized band	PASS
		157		5785.0	5785.246508	42.61		PASS
		165		5825.0	5825.249475	42.83		PASS
	IEEE 802.11n_20	149		5745.0	5745.247525	43.09		PASS
		157		5785.0	5784.751192	-43.01		PASS
		165		5825.0	5824.750142	-42.89		PASS
	IEEE 802.11n_40	151		5755.0	5755.000942	0.16		PASS
		159		5795.0	5794.999925	-0.01		PASS

Test Graphs

NT/NV

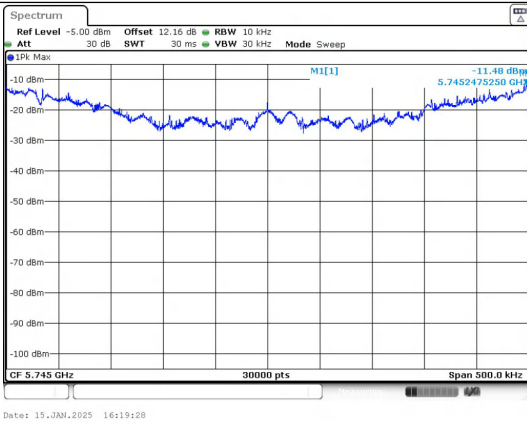
IEEE 802.11a



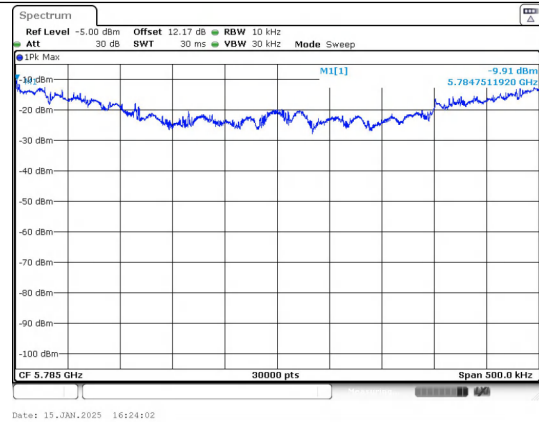


NT/NV_Antenna 0
IEEE 802.11a_Channel 165_20MHz

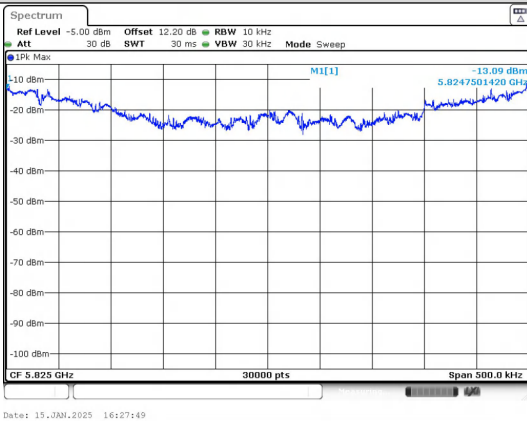
IEEE 802.11n_20



NT/NV_Antenna 0
IEEE 802.11n_Channel 149_20MHz

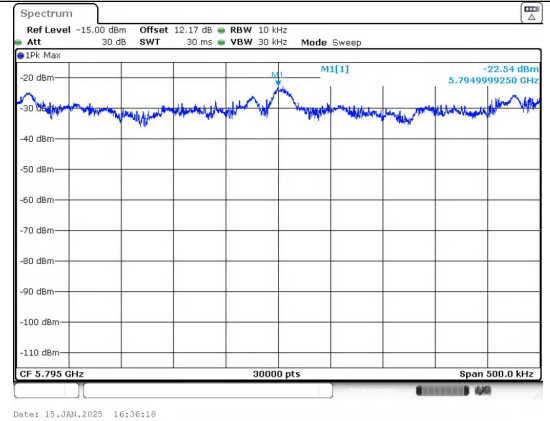
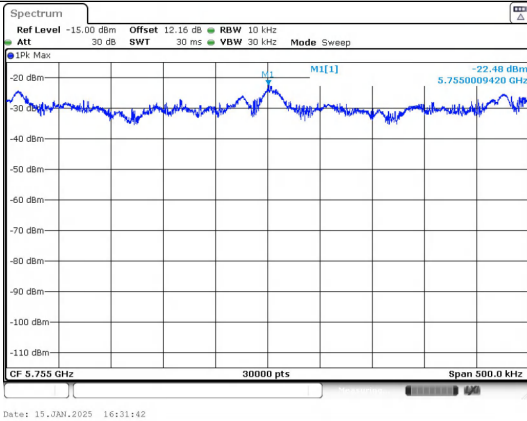


NT/NV_Antenna 0
IEEE 802.11n_Channel 157_20MHz



NT/NV_Antenna 0
IEEE 802.11n_Channel 165_20MHz

IEEE 802.11n_40



NT/NV_Antenna 0
IEEE 802.11n_Channel 151_40MHz

NT/NV_Antenna 0
IEEE 802.11n_Channel 159_40MHz

Conducted Output Power

Conducted output power

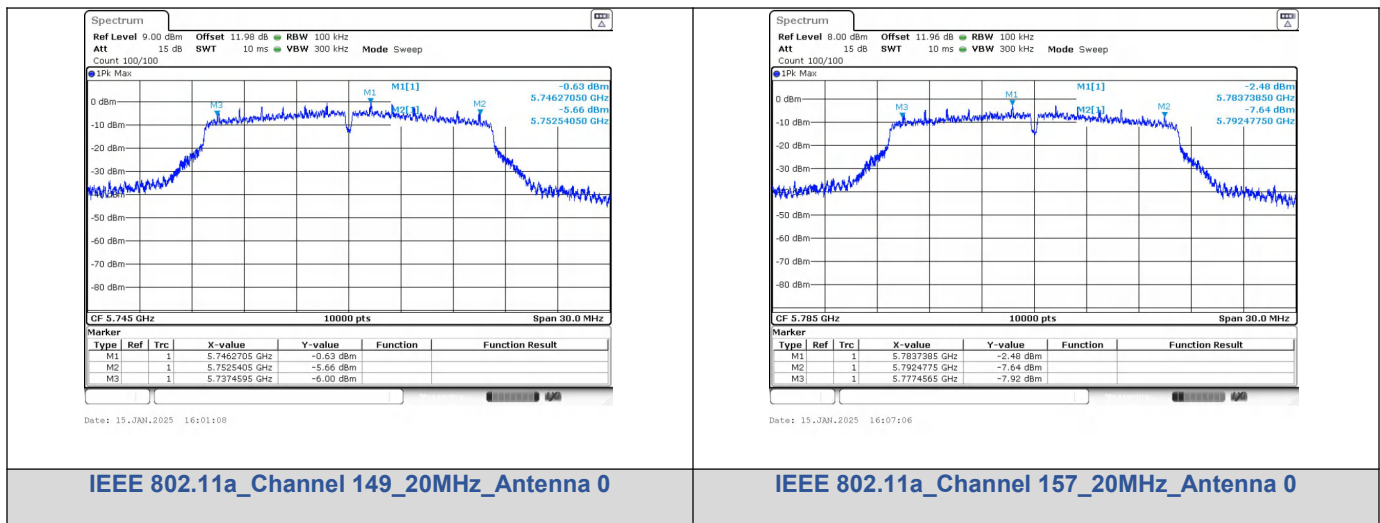
Mode	Channel	Ant. 0 (dBm)	Corr'd Value Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	8.558	8.66	≤30	PASS
	157	6.817	6.92	≤30	PASS
	165	7.833	7.94	≤30	PASS
IEEE 802.11n_20	149	8.302	8.41	≤30	PASS
	157	8.631	8.74	≤30	PASS
	165	8.403	8.51	≤30	PASS
IEEE 802.11n_40	151	8.681	8.9	≤30	PASS
	159	8.141	8.36	≤30	PASS

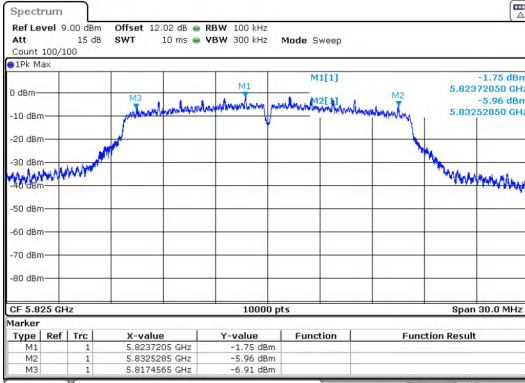
6dB Bandwidth

Test Result

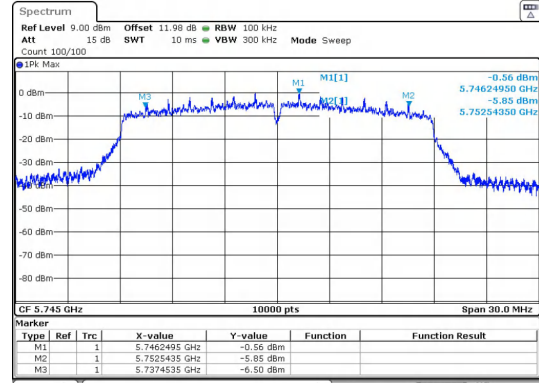
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	15.08	≥0.5	PASS
	157		5785	15.02		PASS
	165		5825	15.07		PASS
IEEE 802.11n_20	149		5745	15.09		PASS
	157		5785	15.10		PASS
	165		5825	15.06		PASS
IEEE 802.11n_40	151		5755	35.03		PASS
	159		5795	35.06		PASS

Test Graphs





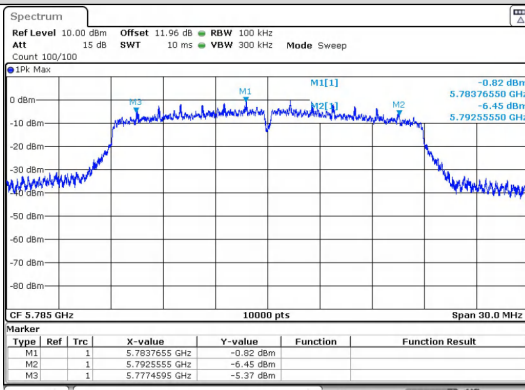
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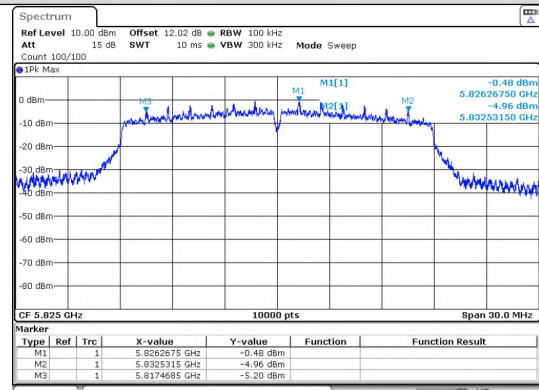
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IEEE 802.11a_Channel 165_20MHz_Antenna 0

IEEE 802.11n_Channel 149_20MHz_Antenna 0



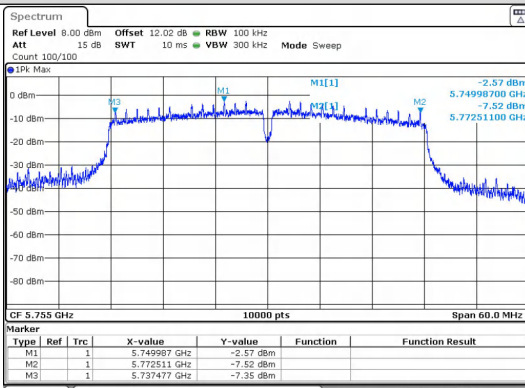
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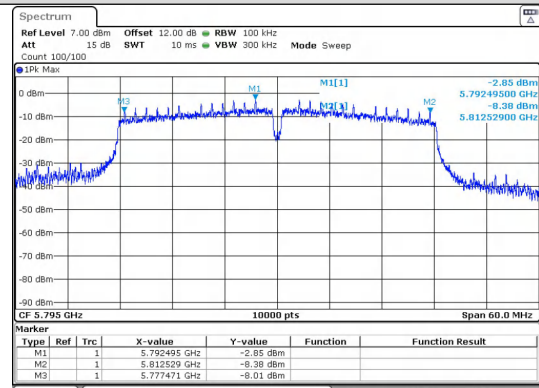
Date: 15, JAN, 2025 16:26:31

IEEE 802.11n_Channel 157_20MHz_Antenna 0

IEEE 802.11n_Channel 165_20MHz_Antenna 0



Date: 15, JAN, 2025 16:30:28



Date: 15, JAN, 2025 16:34:43

IEEE 802.11n_Channel 151_40MHz_Antenna 0

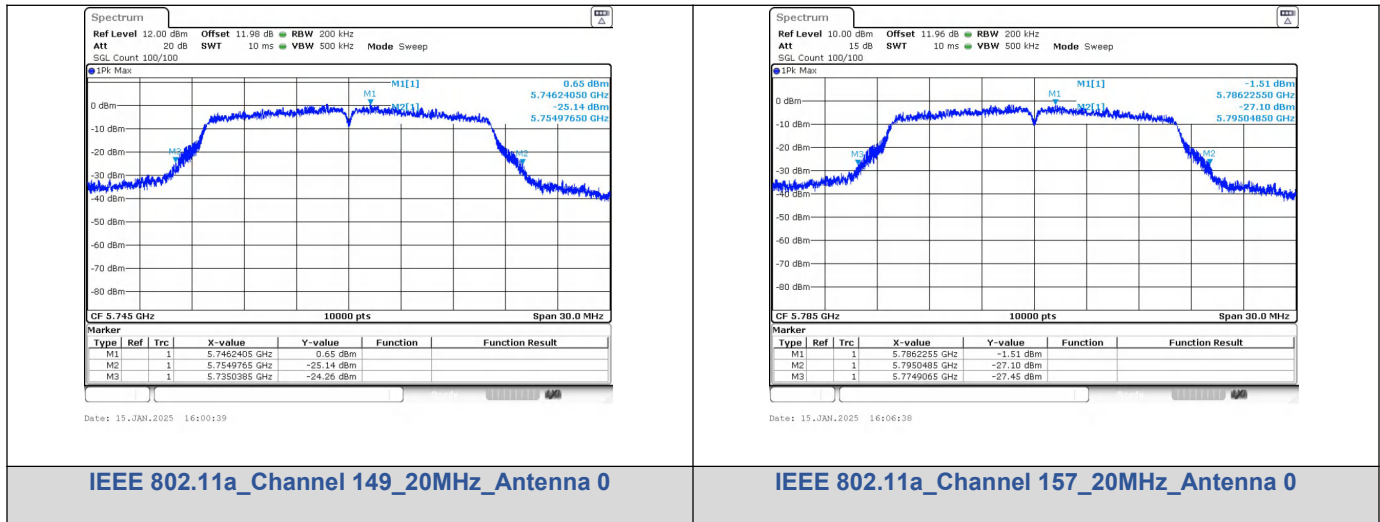
IEEE 802.11n_Channel 159_40MHz_Antenna 0

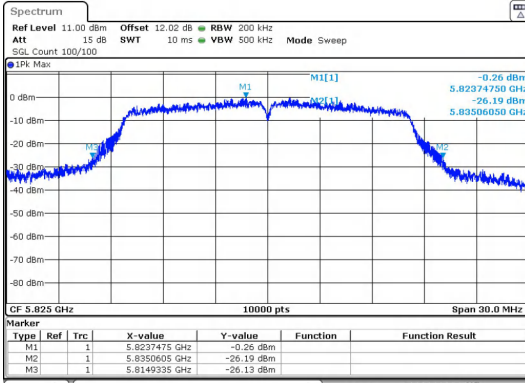
26dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	19.94	1.12
	157		5785	20.14	1.11
	165		5825	20.13	1.11
IEEE 802.11n_20	149		5745	20.14	1.11
	157		5785	20.10	1.12
	165		5825	20.18	1.12
IEEE 802.11n_40	151		5755	40.42	1.06
	159		5795	40.83	1.05

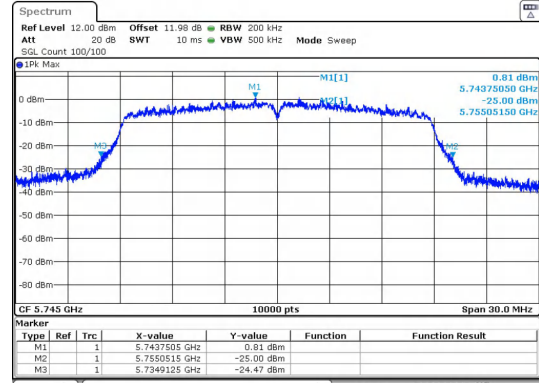
Test Graphs





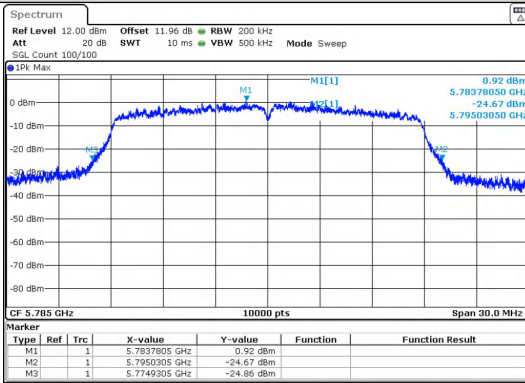
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IEEE 802.11a_Channel 165_20MHz_Antenna 0



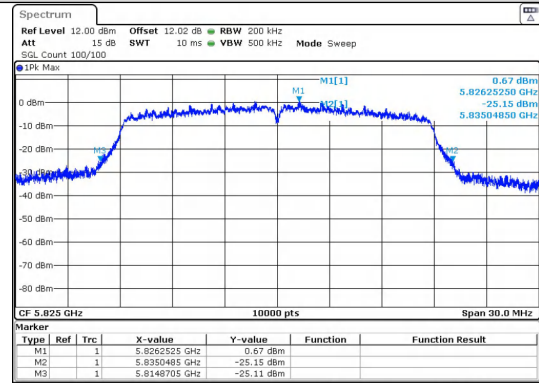
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IEEE 802.11n_Channel 149_20MHz_Antenna 0



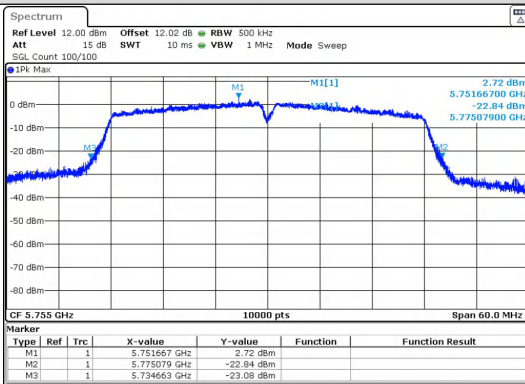
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IEEE 802.11n_Channel 157_20MHz_Antenna 0



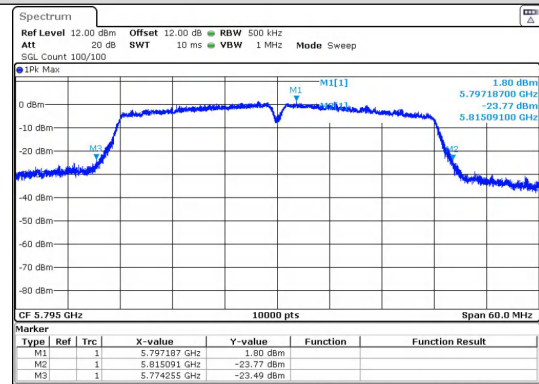
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IEEE 802.11n_Channel 165_20MHz_Antenna 0



Date: 15, JAN, 2025 16:29:59

IEEE 802.11n_Channel 151_40MHz_Antenna 0



Date: 15, JAN, 2025 16:34:15

IEEE 802.11n_Channel 159_40MHz_Antenna 0

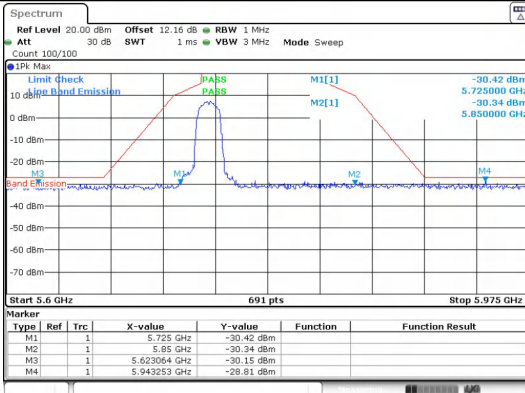
Conducted Out Of Band Emission

Test Result

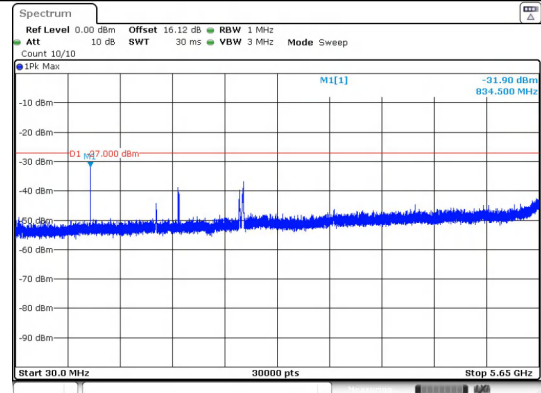
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11a	149	0	834.50	-31.900	-27	-4.900	PASS
			5623.06	-30.151	-27	-3.151	PASS
			5725.00	-30.420	27	-57.420	PASS
			5850.00	-30.340	27	-57.340	PASS
			5943.25	-28.806	-27	-1.806	PASS
			16239.8	-43.160	-27	-16.160	PASS
	157		5627.05	-42.780	-27	-15.780	PASS
			5640.97	-30.024	-27	-3.024	PASS
			5725.00	-31.320	27	-58.320	PASS
			5850.00	-32.040	27	-59.040	PASS
			5955.19	-29.879	-27	-2.879	PASS
			17636.1	-43.050	-27	-16.050	PASS
	165		2468.61	-37.600	-27	-10.600	PASS
			5622.52	-29.951	-27	-2.951	PASS
			5725.00	-31.950	27	-58.950	PASS
			5850.00	-31.090	27	-58.090	PASS
			5953.56	-29.366	-27	-2.366	PASS
			16773.3	-43.040	-27	-16.040	PASS
IEEE 802.11n_20	149		837.31	-31.690	-27	-4.690	PASS
			5649.11	-30.098	-27	-3.098	PASS
			5725.00	-28.490	27	-55.490	PASS
			5850.00	-30.680	27	-57.680	PASS
			5944.88	-29.712	-27	-2.712	PASS
			15612.2	-43.170	-27	-16.170	PASS

	157		2468.61	-35.360	-27	-8.360	PASS
			5640.97	-29.298	-27	-2.298	PASS
			5725.00	-32.190	27	-59.190	PASS
			5850.00	-30.390	27	-57.390	PASS
			5950.85	-29.353	-27	-2.353	PASS
			21985.8	-43.340	-27	-16.340	PASS
	165		2476.67	-40.250	-27	-13.250	PASS
			5610.04	-29.431	-27	-2.431	PASS
			5725.00	-32.400	27	-59.400	PASS
			5850.00	-30.980	27	-57.980	PASS
			5961.16	-29.869	-27	-2.869	PASS
			6018.15	-43.600	-27	-16.600	PASS
IEEE 802.11n_40	151		2468.99	-35.480	-27	-8.480	PASS
			5633.38	-30.157	-27	-3.157	PASS
			5725.00	-26.610	27	-53.610	PASS
			5850.00	-31.430	27	-58.430	PASS
			5956.28	-29.243	-27	-2.243	PASS
			22047.5	-43.190	-27	-16.190	PASS
	159		826.64	-31.160	-27	-4.160	PASS
			5637.17	-29.967	-27	-2.967	PASS
			5725.00	-32.140	27	-59.140	PASS
			5850.00	-31.420	27	-58.420	PASS
			5955.73	-29.840	-27	-2.840	PASS
			22120.6	-43.240	-27	-16.240	PASS

Test Graphs



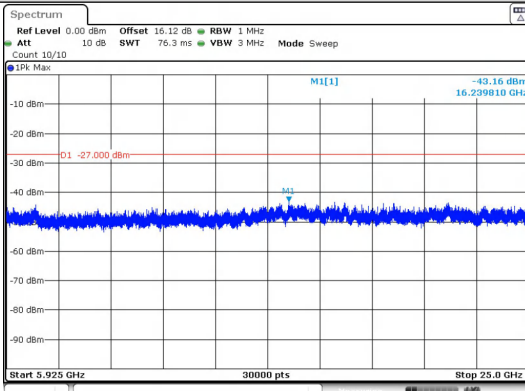
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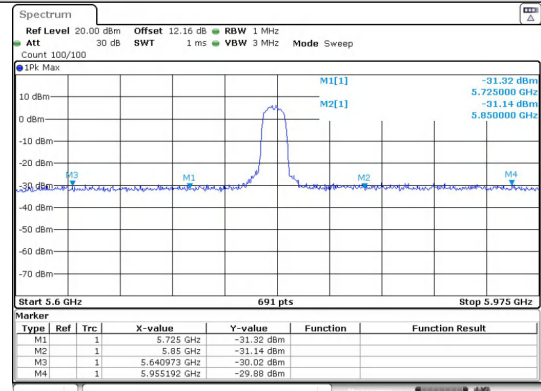
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Out Of Band Emission IEEE 802.11a_Channel 149_20MHz_Antenna 0

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



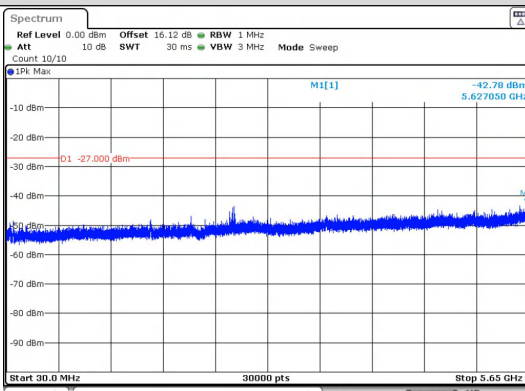
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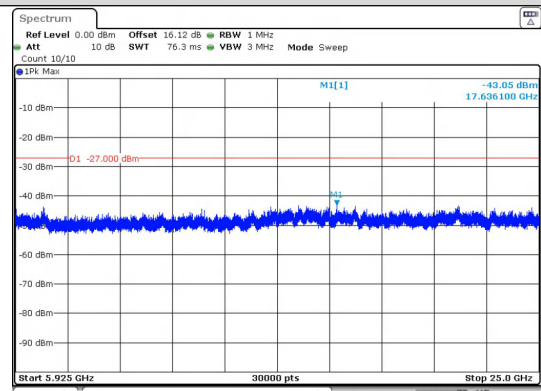
Date: 15, JAN, 2025 16:10:58

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

Out Of Band Emission IEEE 802.11a_Channel 157_20MHz_Antenna 0



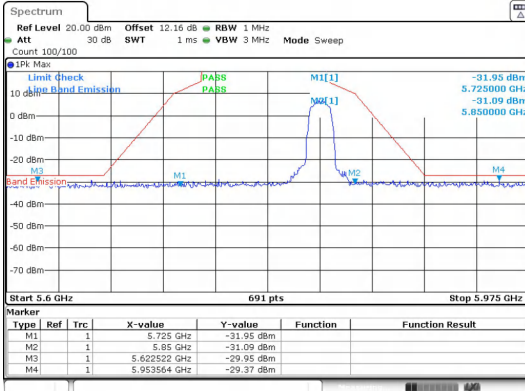
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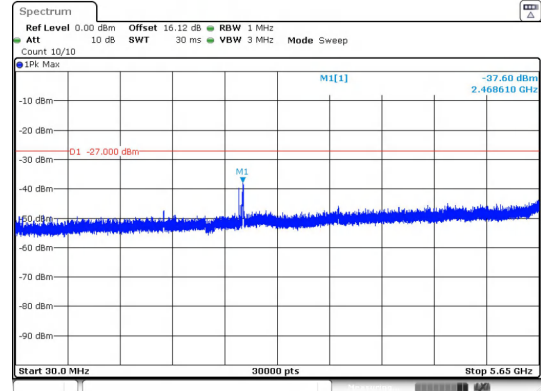
Date: 15, JAN, 2025 16:11:22

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

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



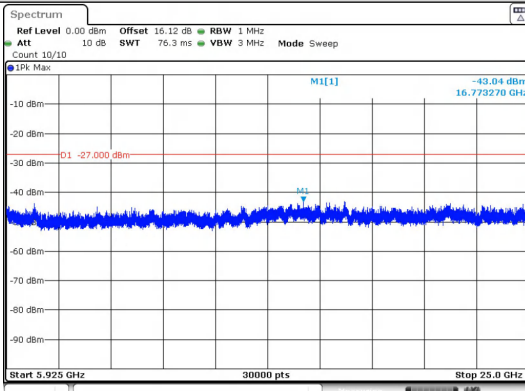
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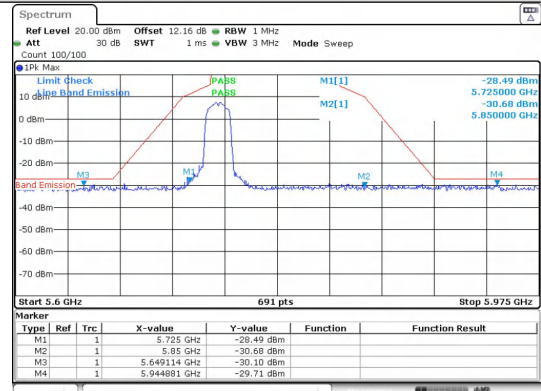
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Out Of Band Emission IEEE 802.11a_Channel 165_20MHz_Antenna 0

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



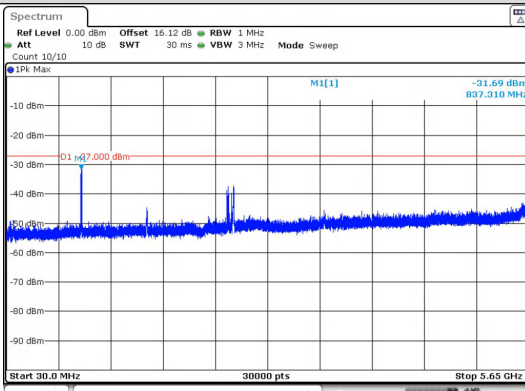
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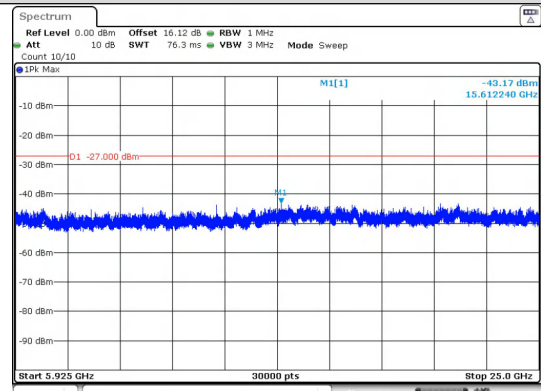
Date: 15, JAN, 2025 16:19:48

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

Out Of Band Emission IEEE 802.11n_Channel 149_20MHz_Antenna 0



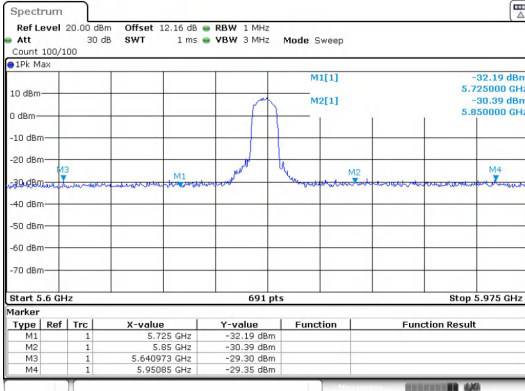
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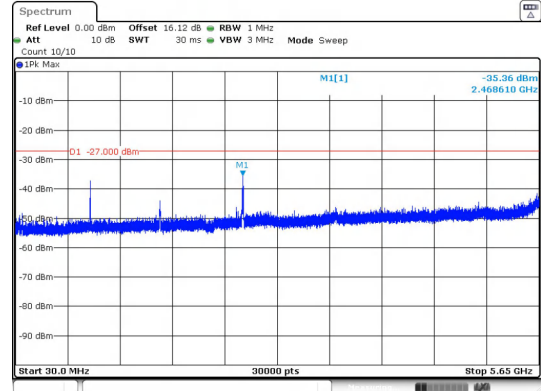
Date: 15, JAN, 2025 16:20:11

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

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



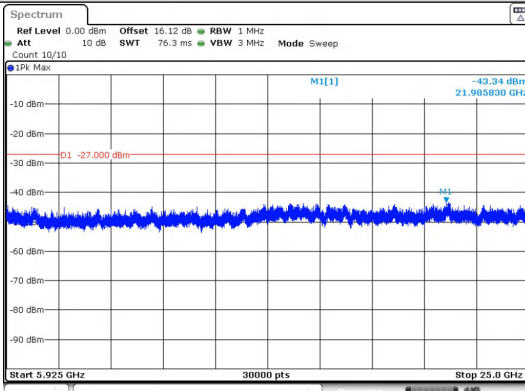
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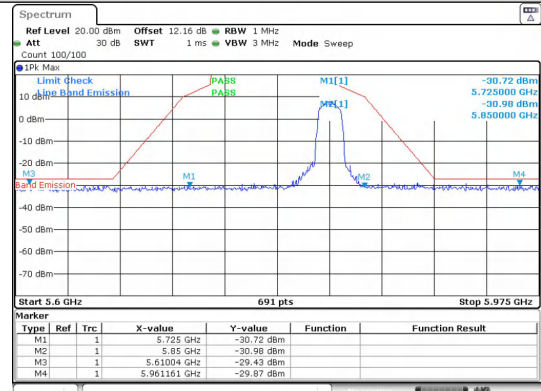
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Out Of Band Emission IEEE 802.11n_Channel 157_20MHz_Antenna 0

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



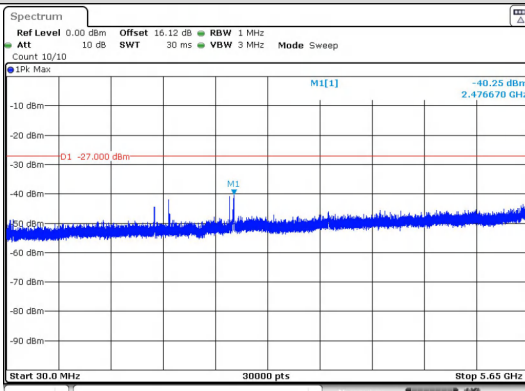
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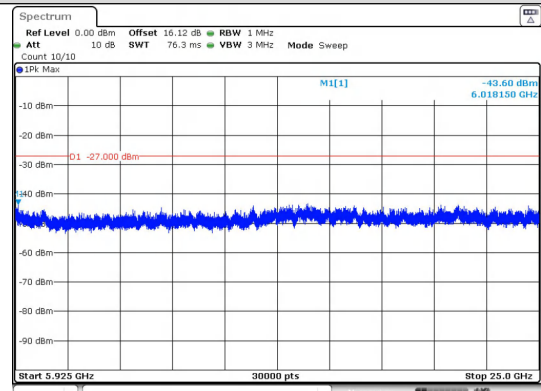
Date: 15, JAN, 2025 16:28:09

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

Out Of Band Emission IEEE 802.11n_Channel 165_20MHz_Antenna 0



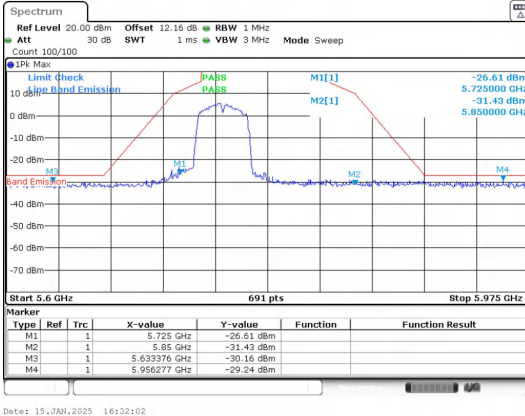
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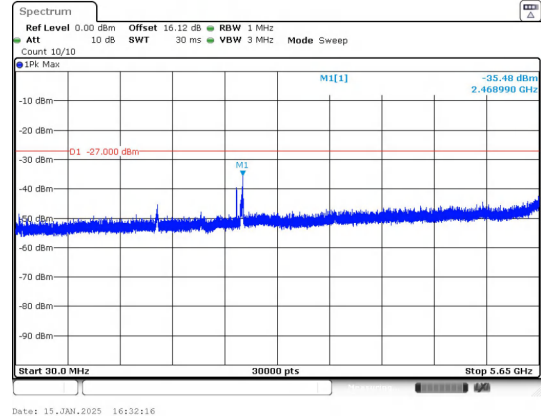
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Spurious Emission:30.0~5650 MHz IEEE 802.11n_Channel 165_20MHz_Antenna 0

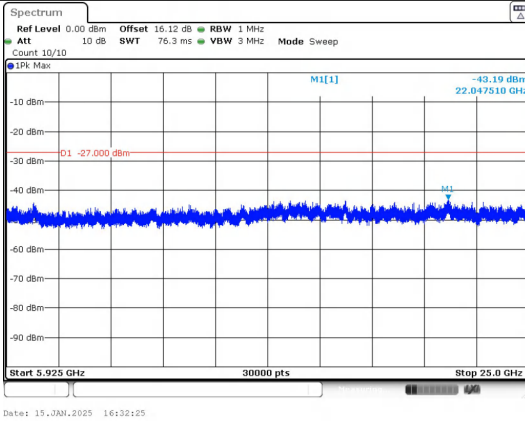
Spurious Emission:5925~25000.0 MHz IEEE 802.11n_Channel 165_20MHz_Antenna 0



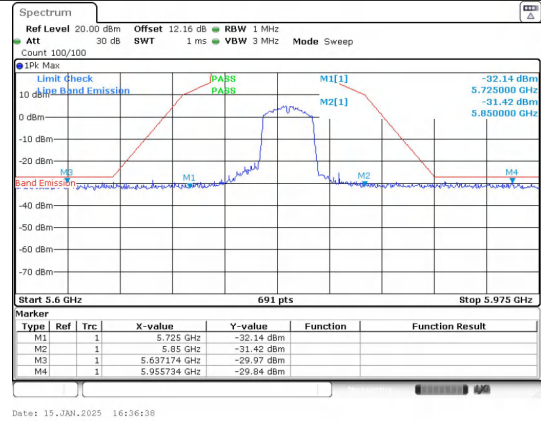
Out Of Band Emission
IEEE 802.11n_Channel 151_40MHz_Antenna 0



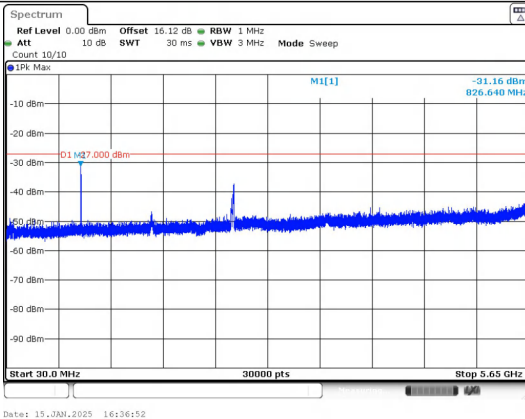
Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 151_40MHz_Antenna 0



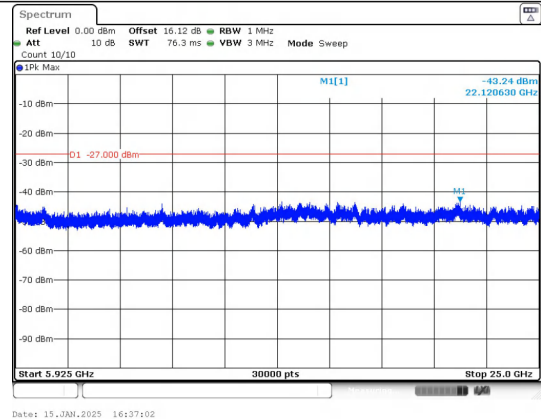
Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 151_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 159_40MHz_Antenna 0



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



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

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