

Appendix C

Report No.:	CISRR24082921504
FCC ID:	2BE3U-X1
Product Name:	Bonding Encoder
Model No.:	X1
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

Frequency Stability

ANT1:

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	1	5745.0	5745.089425	15.57	Within authorized band	PASS
		157		5785.0	5785.087108	15.06		PASS
		165		5825.0	5825.145058	24.9		PASS
	IEEE 802.11n_20	149		5745.0	5745.095258	16.58		PASS
		157		5785.0	5785.158958	27.48		PASS
		165		5825.0	5825.160708	27.59		PASS
	IEEE 802.11n_40	151		5755.0	5755.130792	22.73		PASS
		159		5795.0	5794.838325	-27.9		PASS
	IEEE 802.11ac_20	149		5745.0	5745.090358	15.73		PASS
		157		5785.0	5785.155942	26.96		PASS
		165		5825.0	5825.091308	15.68		PASS
	IEEE 802.11ac_40	151		5755.0	5754.840125	-27.78		PASS
		159		5795.0	5794.840858	-27.46		PASS
	IEEE 802.11ac_80	155		5775.0	5774.848358	-26.26		PASS

ANT2:

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	2	5745.0	5745.087108	15.16	Within authorized band	PASS
		157		5785.0	5785.086275	14.91		PASS
		165		5825.0	5825.083725	14.37		PASS
	IEEE 802.11n_20	149		5745.0	5745.153092	26.65		PASS
		157		5785.0	5785.164858	28.5		PASS
		165		5825.0	5825.162792	27.95		PASS
	IEEE 802.11n_40	151		5755.0	5755.091092	15.83		PASS
		159		5795.0	5795.124308	21.45		PASS
	IEEE 802.11ac_20	149		5745.0	5745.160475	27.93		PASS
		157		5785.0	5785.210425	36.37		PASS
		165		5825.0	5825.152808	26.23		PASS
	IEEE 802.11ac_40	151		5755.0	5754.839558	-27.88		PASS
		159		5795.0	5794.837025	-28.12		PASS
	IEEE 802.11ac_80	155		5775.0	5774.839075	-27.87		PASS

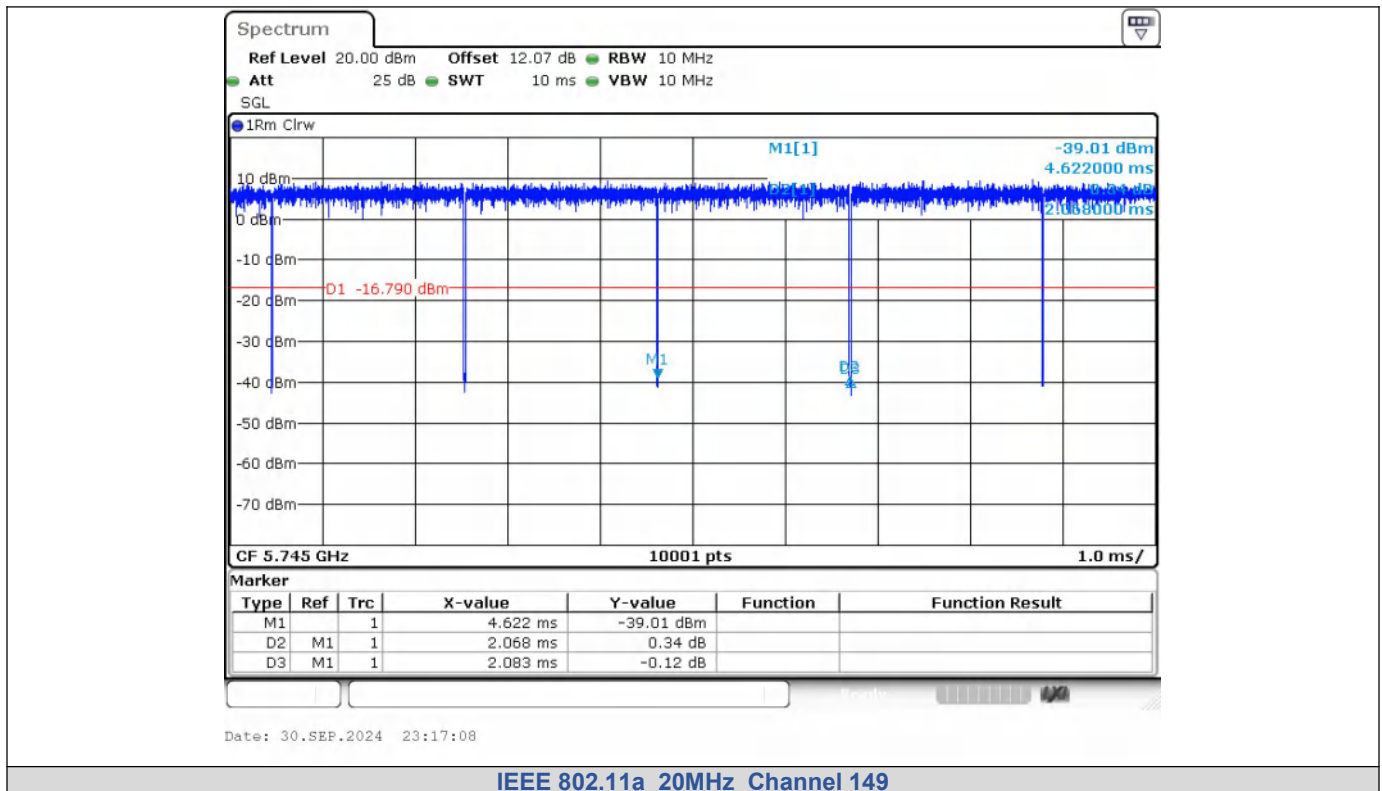
Duty Cycle

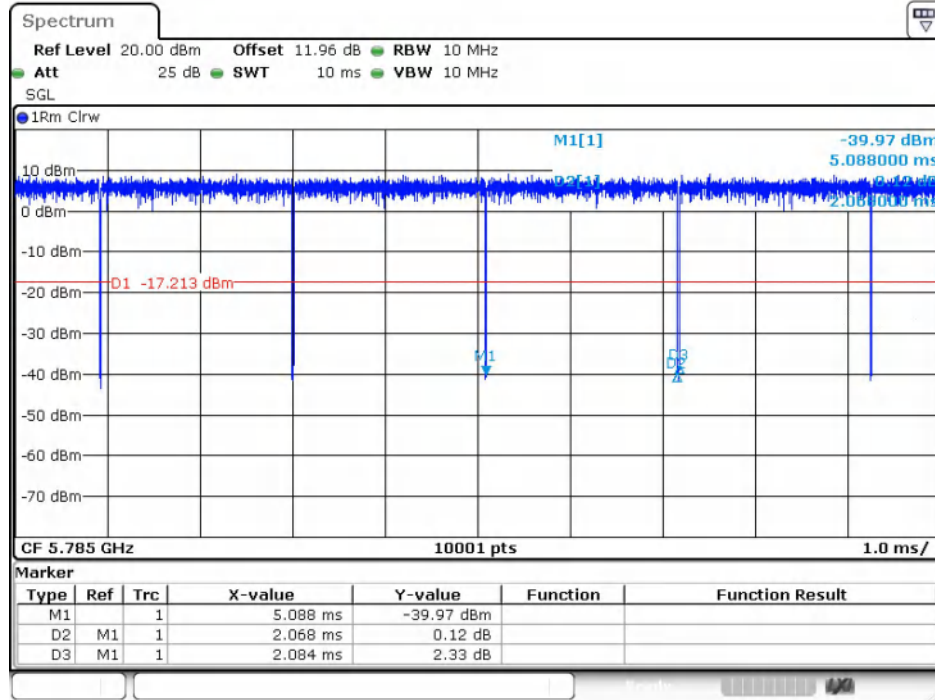
ANT1:

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	2.068	2.083	99.28	0.9928	0.0314	0.48
		157		2.068	2.084	99.23	0.9923	0.0336	0.48
		165		2.068	2.084	99.23	0.9923	0.0336	0.48
IEEE 802.11n_20	149	2.068		2.083	99.28	0.9928	0.0314	0.48	
	157	2.068		2.083	99.28	0.9928	0.0314	0.48	
	165	2.068		2.083	99.28	0.9928	0.0314	0.48	
IEEE 802.11n_40	MCS 0	151		2.068	2.084	99.23	0.9923	0.0336	0.48
		159		2.068	2.083	99.28	0.9928	0.0314	0.48
IEEE 802.11ac_20		149		2.068	2.084	99.23	0.9923	0.0336	0.48
		157		2.068	2.083	99.28	0.9928	0.0314	0.48
		165		2.068	2.083	99.28	0.9928	0.0314	0.48
IEEE 802.11ac_40		151		2.068	2.083	99.28	0.9928	0.0314	0.48
		159		2.068	2.084	99.23	0.9923	0.0336	0.48
IEEE 802.11ac_80		155		2.244	2.260	99.29	0.9929	0.0309	0.45

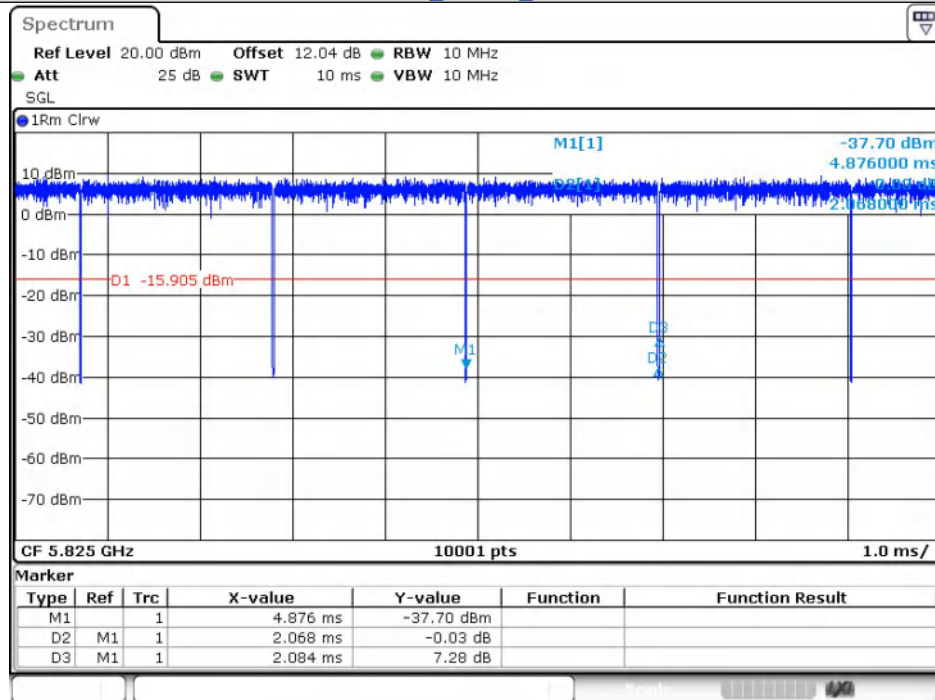
Test Graphs





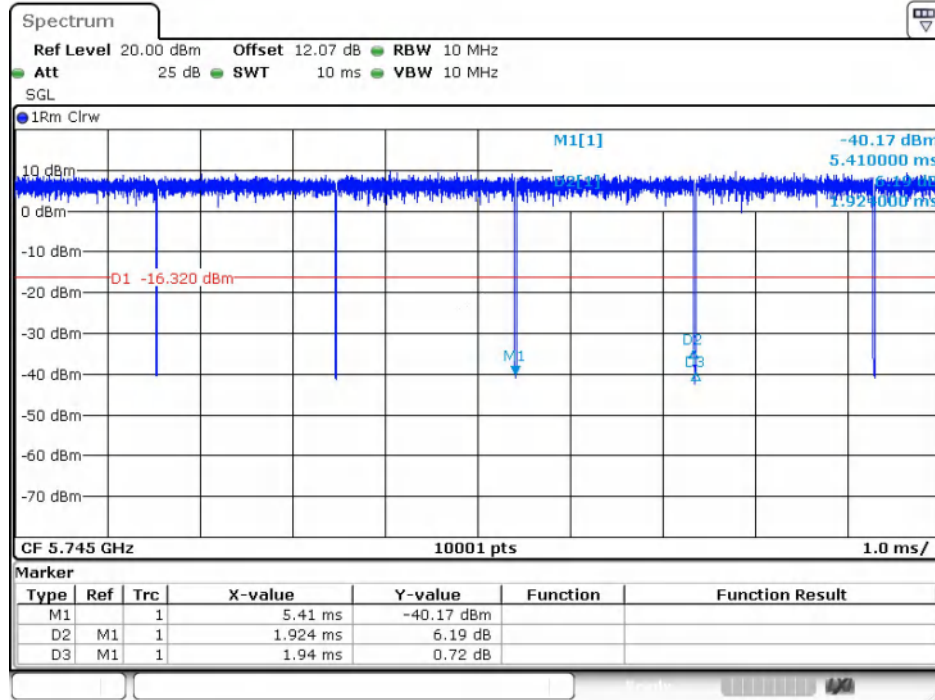
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IEEE 802.11a_20MHz_Channel 157



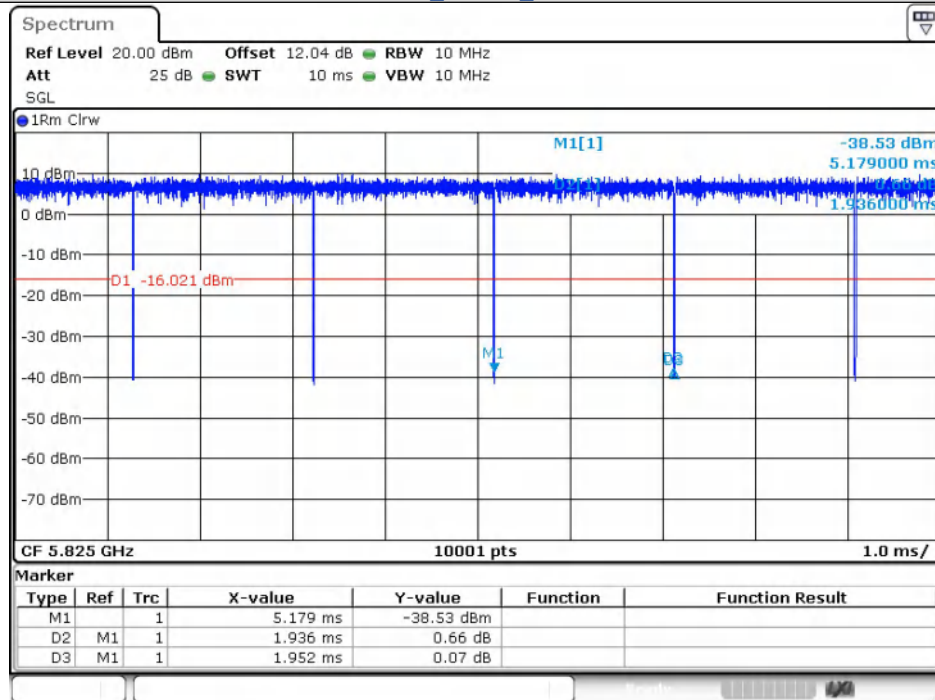
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IEEE 802.11a_20MHz_Channel 165



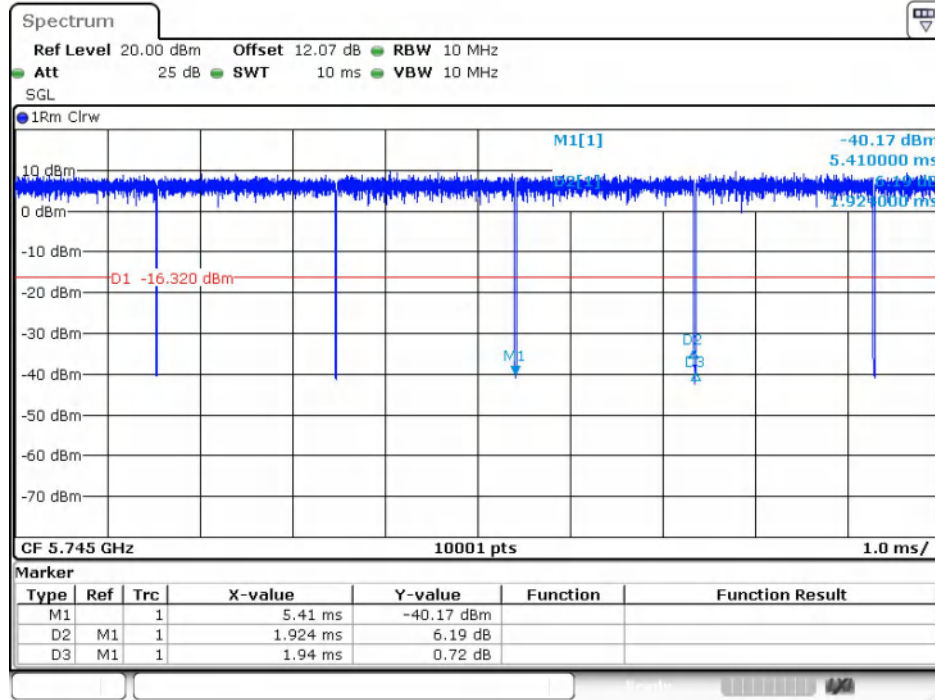
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IEEE 802.11n_20MHz_Channel 149



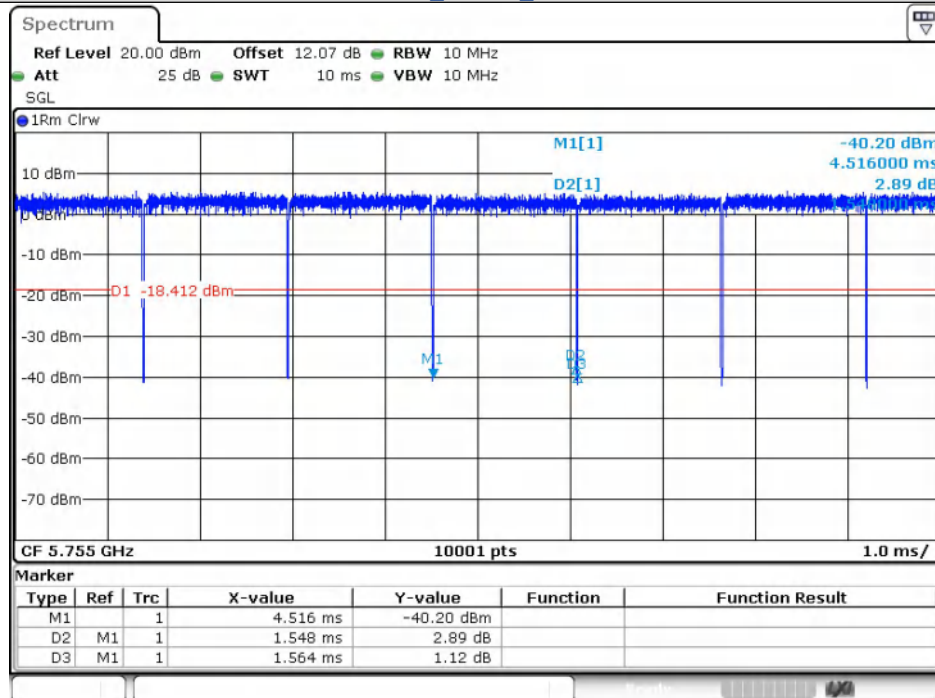
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IEEE 802.11n_20MHz_Channel 157



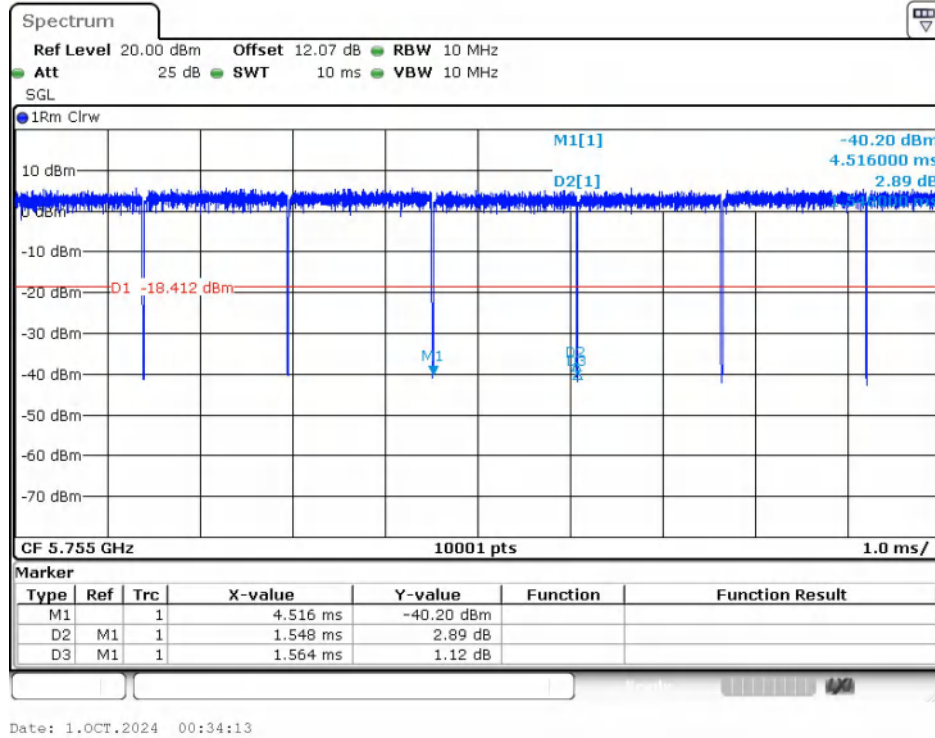
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IEEE 802.11n_20MHz_Channel 165

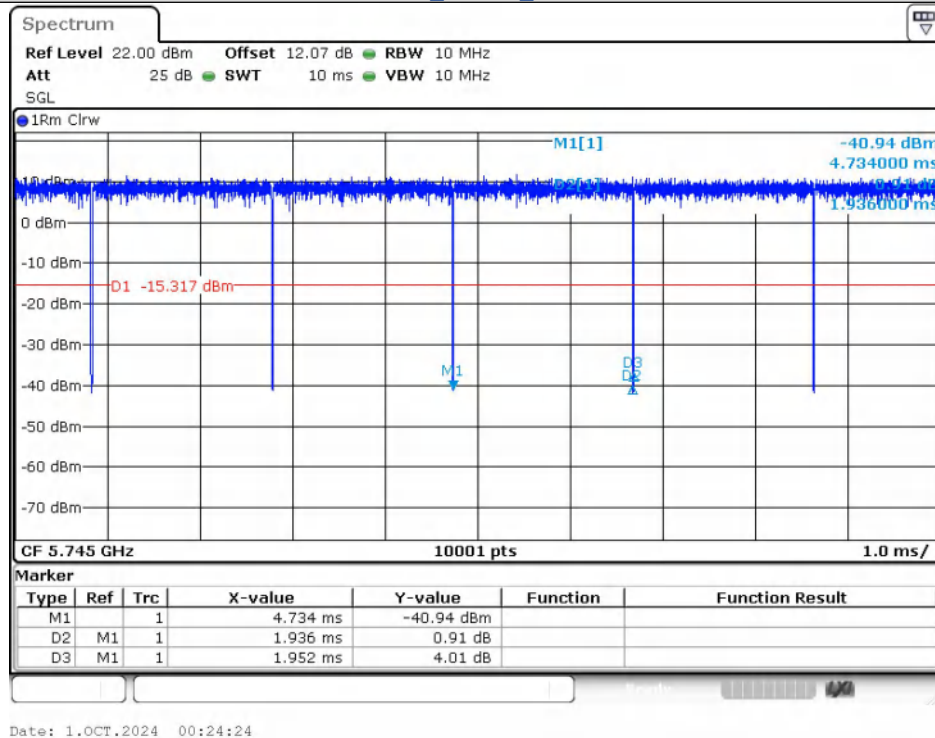


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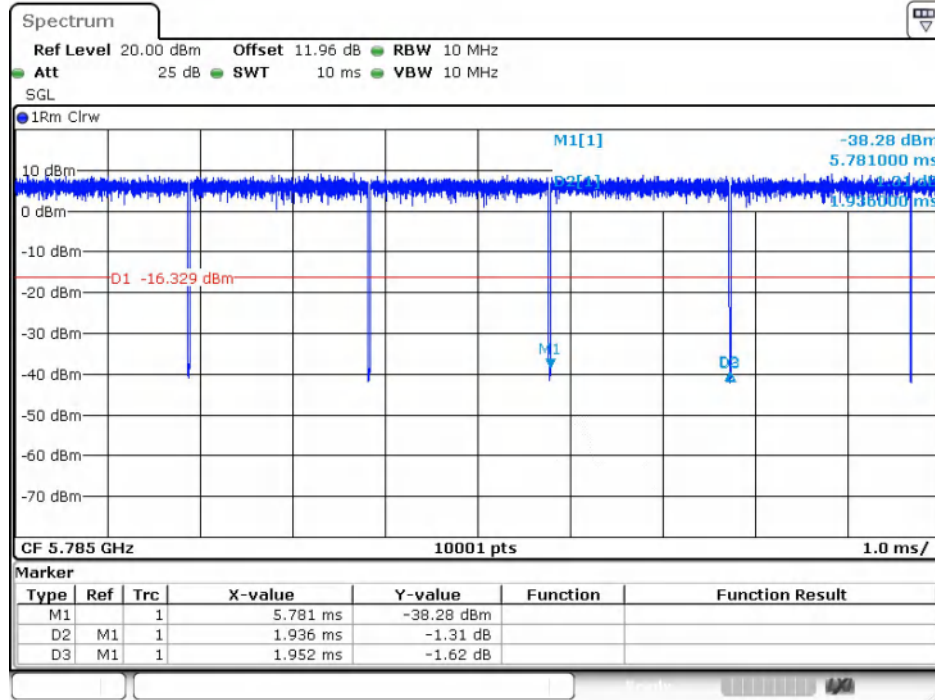
IEEE 802.11n_40MHz_Channel 151



IEEE 802.11n_40MHz_Channel 159

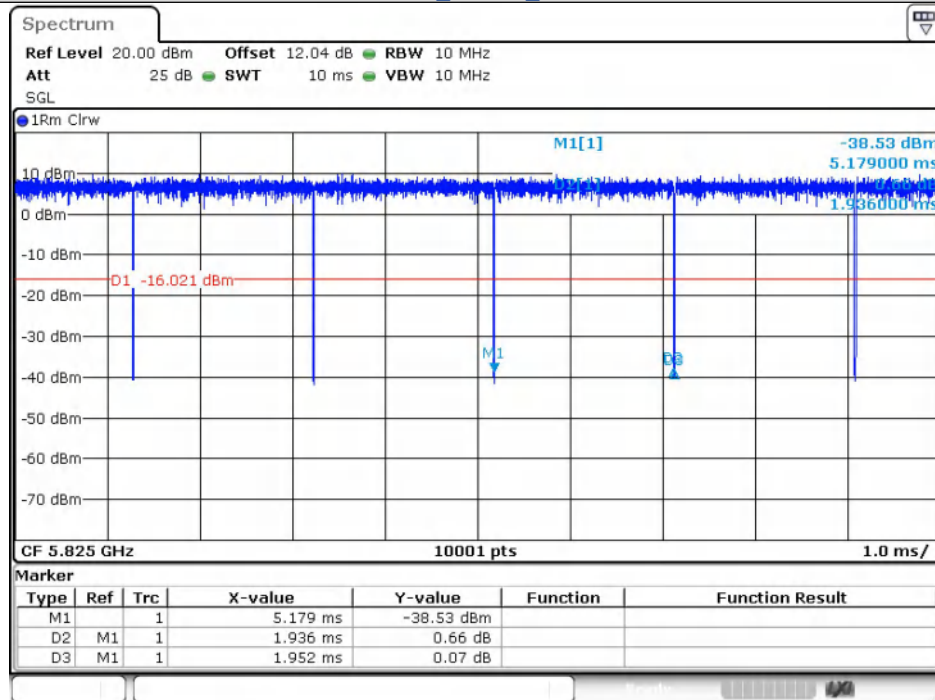


IEEE 802.11ac_20MHz_Channel 149



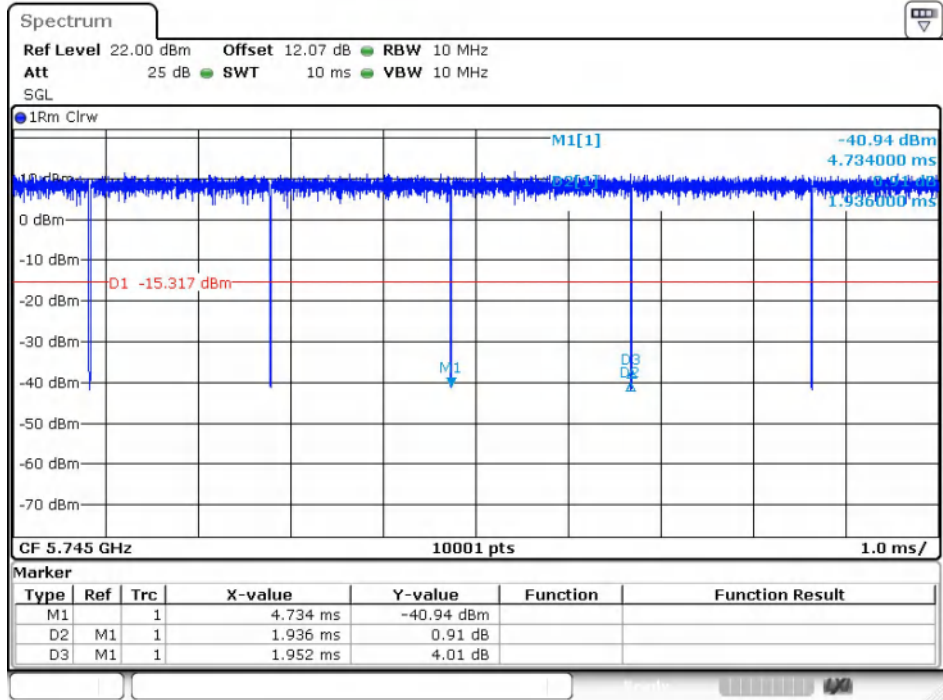
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IEEE 802.11ac_20MHz_Channel 157



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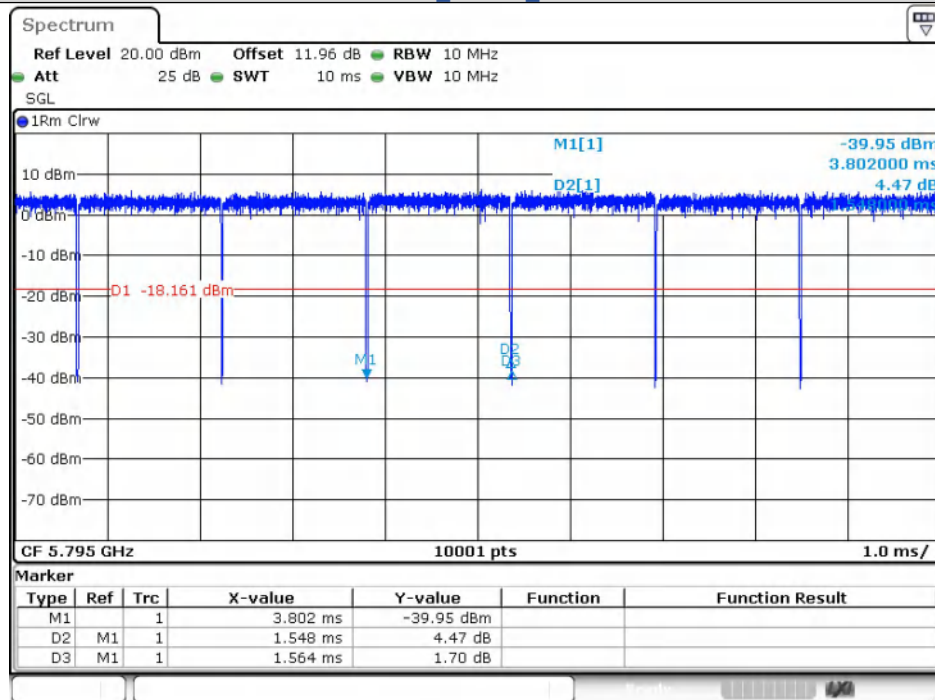
IEEE 802.11ac_20MHz_Channel 165



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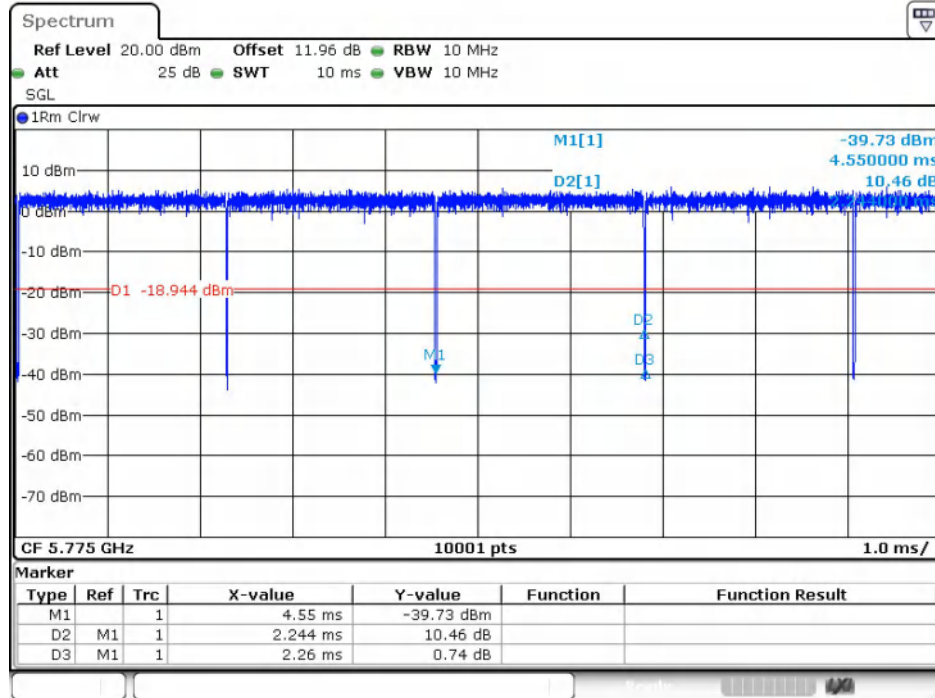
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IEEE 802.11ac_40MHz_Channel 151



Date: 1.OCT.2024 00:37:08

IEEE 802.11ac_40MHz_Channel 159



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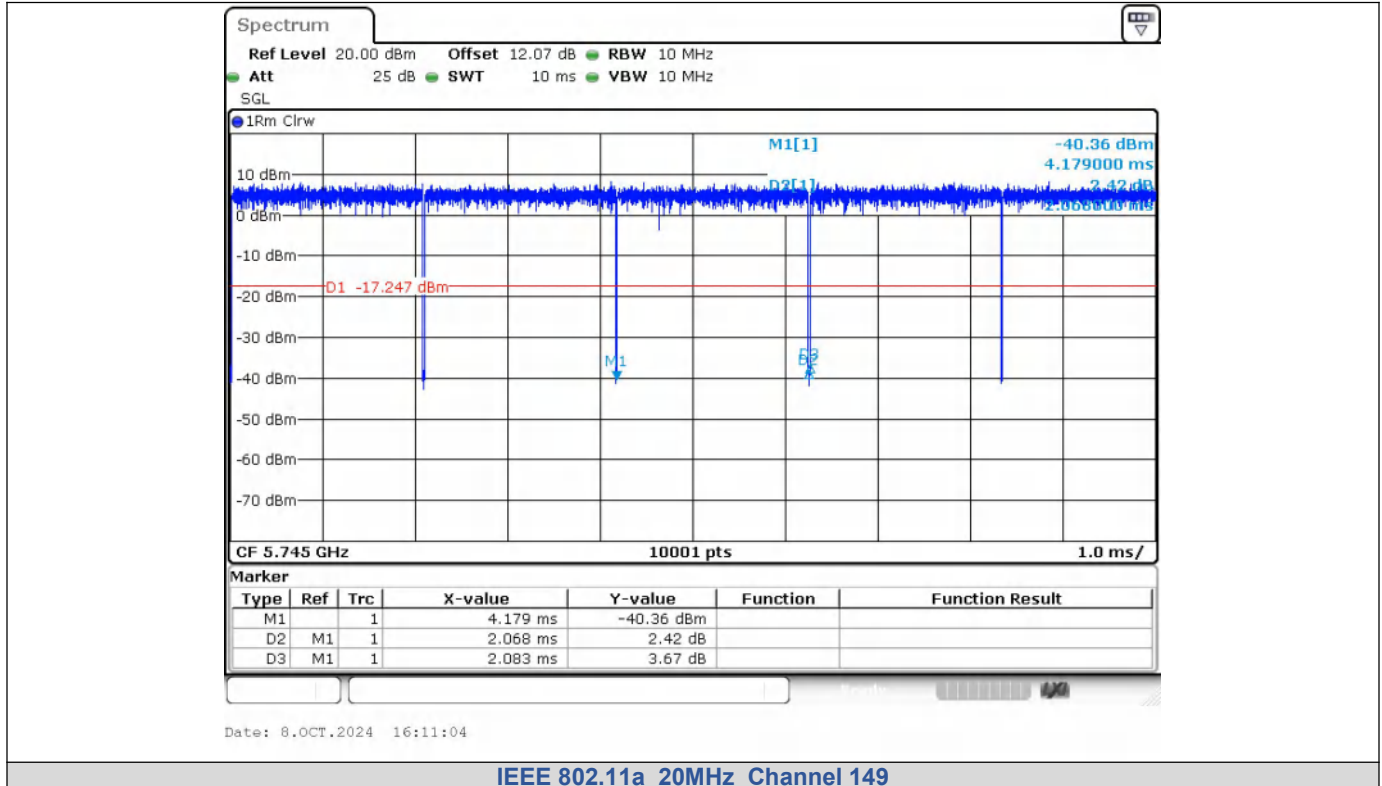
IEEE 802.11ac_80MHz_Channel 155

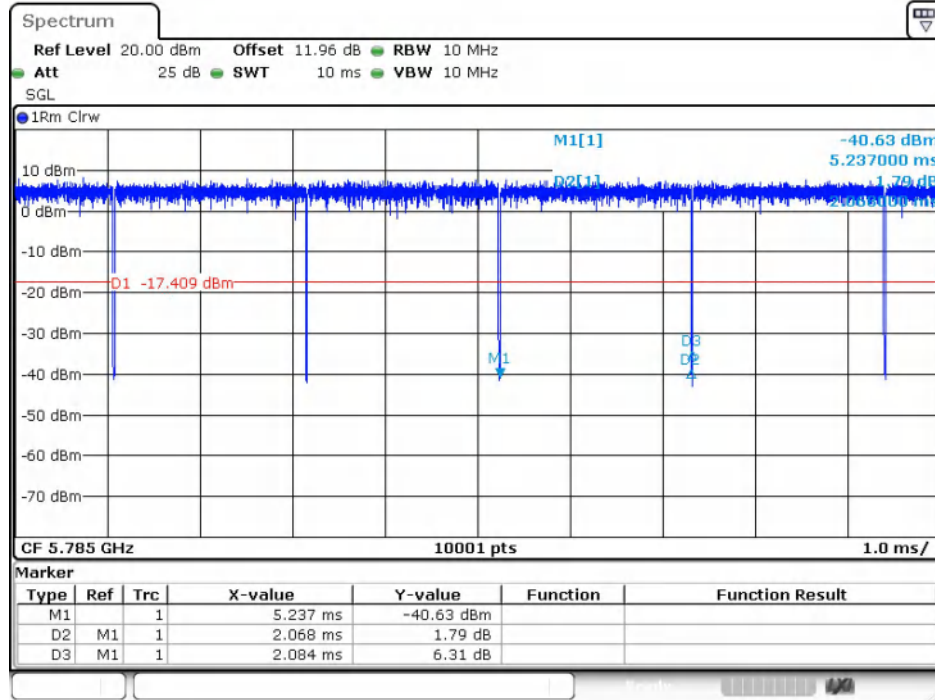
ANT2:

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	2	2.068	2.083	99.28	0.9928	0.0314	0.48
		157		2.068	2.084	99.23	0.9923	0.0336	0.48
		165		2.068	2.084	99.23	0.9923	0.0336	0.48
IEEE 802.11n_20	149	1.924		1.940	99.18	0.9918	0.0358	0.52	
	157	1.936		1.952	99.18	0.9918	0.0358	0.52	
	165	1.936		1.952	99.18	0.9918	0.0358	0.52	
IEEE 802.11n_40	151	1.540		1.556	98.97	0.9897	0.045	0.65	
	159	1.936		1.952	99.18	0.9918	0.0358	0.52	
IEEE 802.11ac_20	MCS 0	149		1.936	1.952	99.18	0.9918	0.0358	0.52
		157		1.936	1.952	99.18	0.9918	0.0358	0.52
		165		1.936	1.951	99.23	0.9923	0.0336	0.52
151		1.548		1.564	98.98	0.9898	0.0445	0.65	
159		1.548		1.564	98.98	0.9898	0.0445	0.65	
IEEE 802.11ac_80		155		2.244	2.260	99.29	0.9929	0.0309	0.45

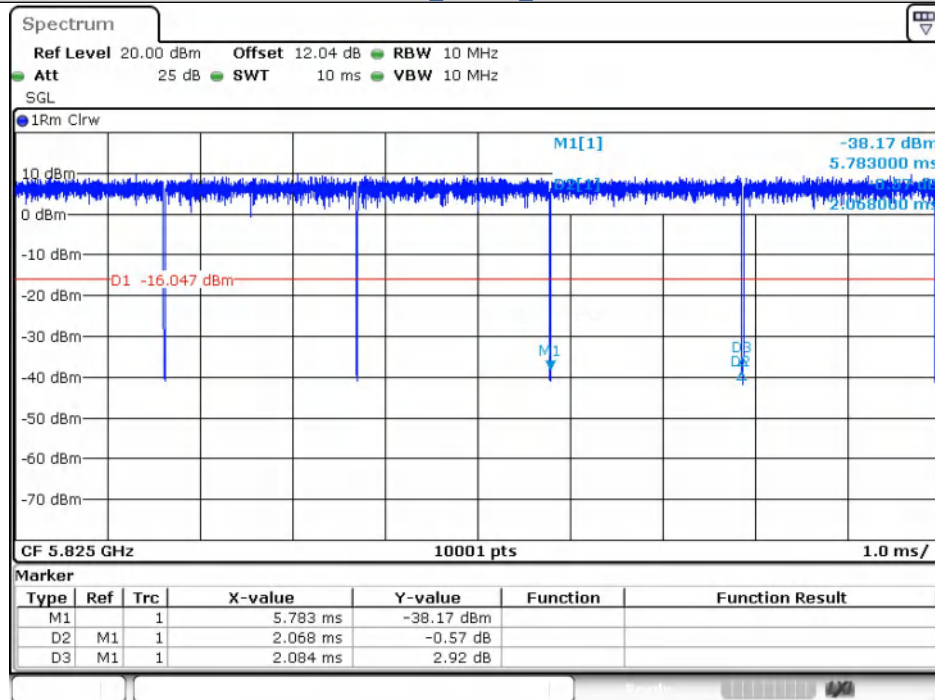
Test Graphs





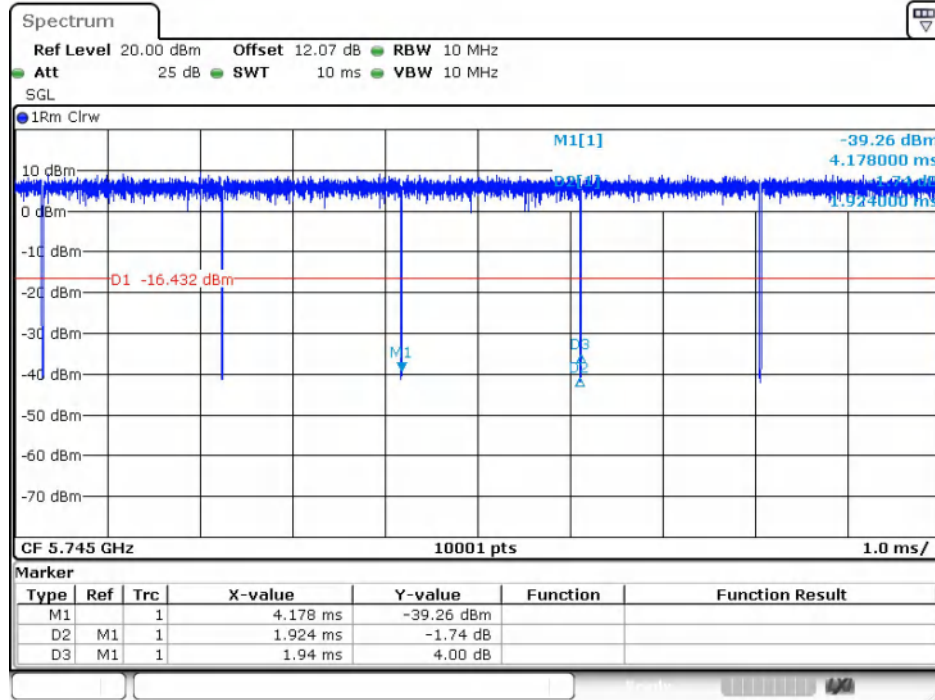
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IEEE 802.11a_20MHz_Channel 157



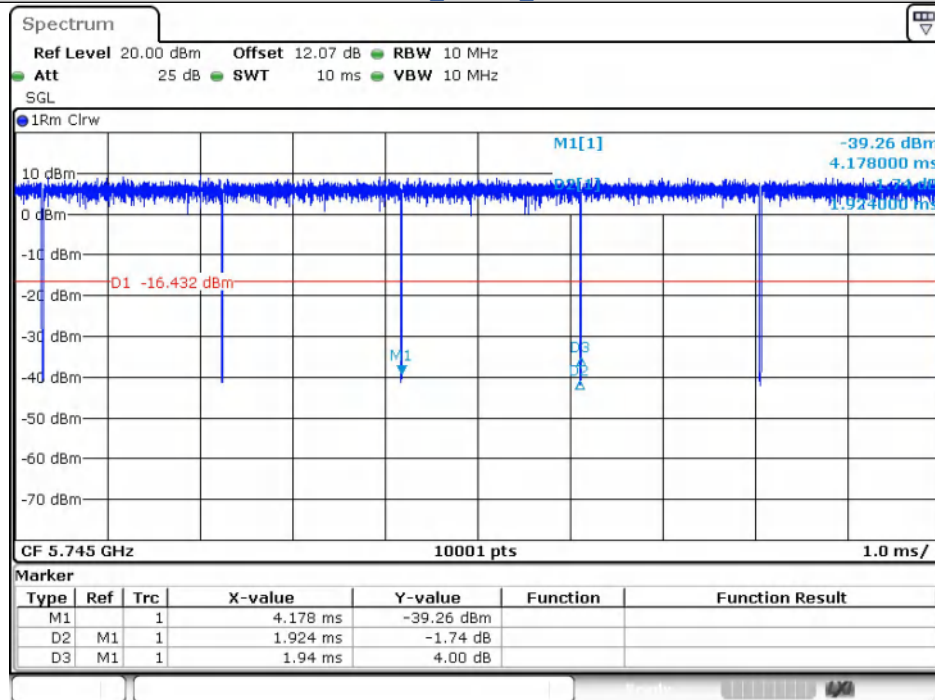
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IEEE 802.11a_20MHz_Channel 165



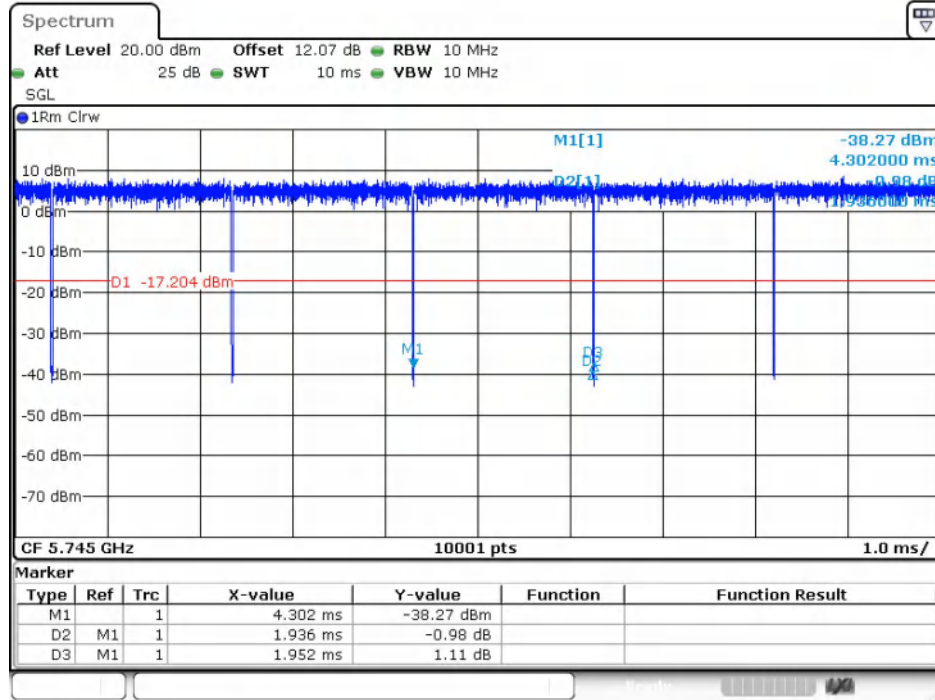
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IEEE 802.11n_20MHz_Channel 149



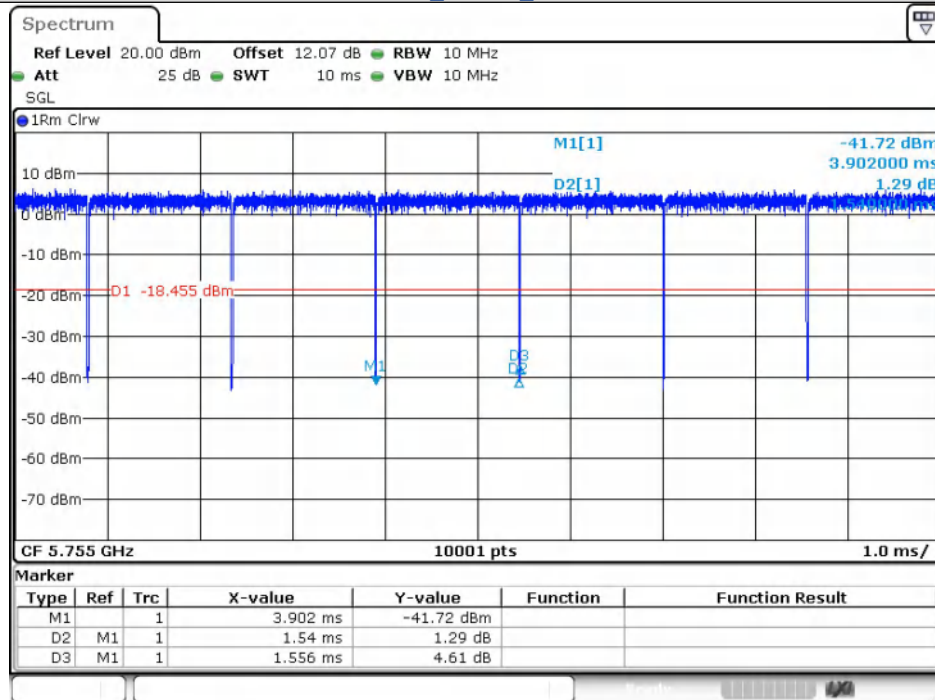
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IEEE 802.11n_20MHz_Channel 157



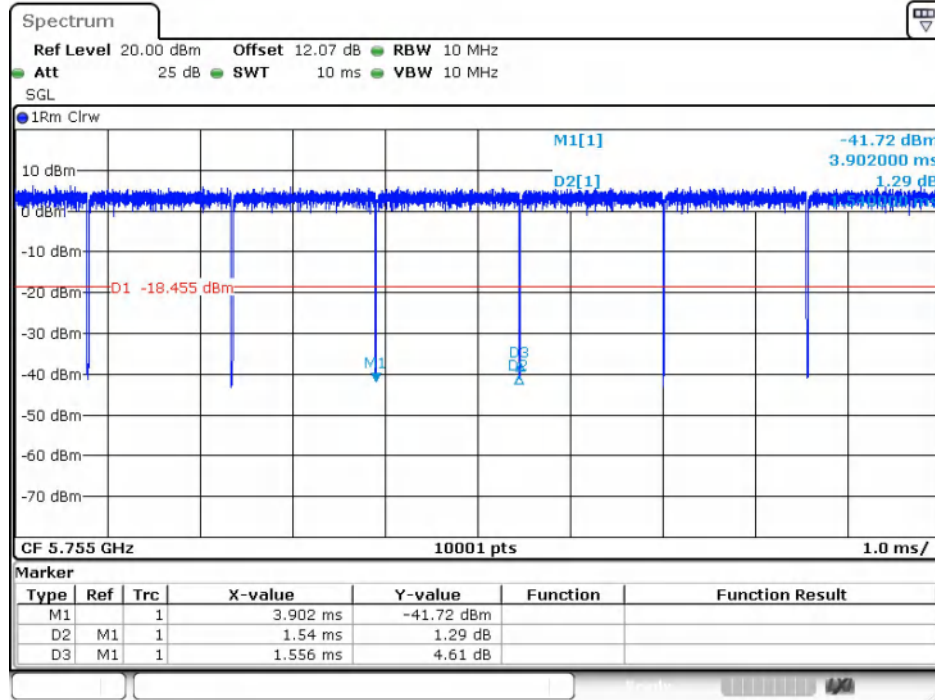
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IEEE 802.11n_20MHz_Channel 165



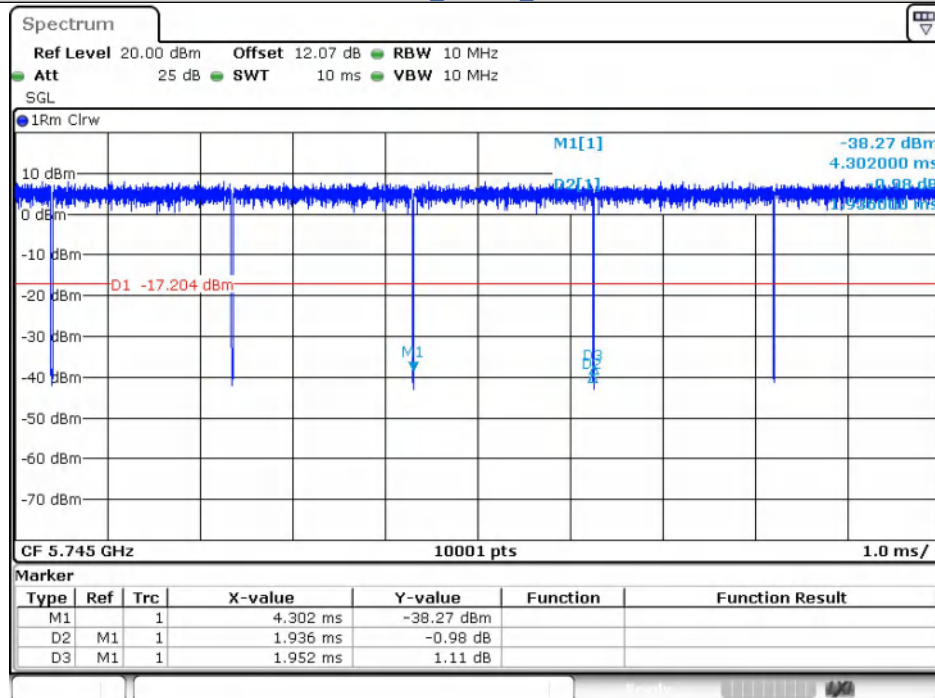
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IEEE 802.11n_40MHz_Channel 151



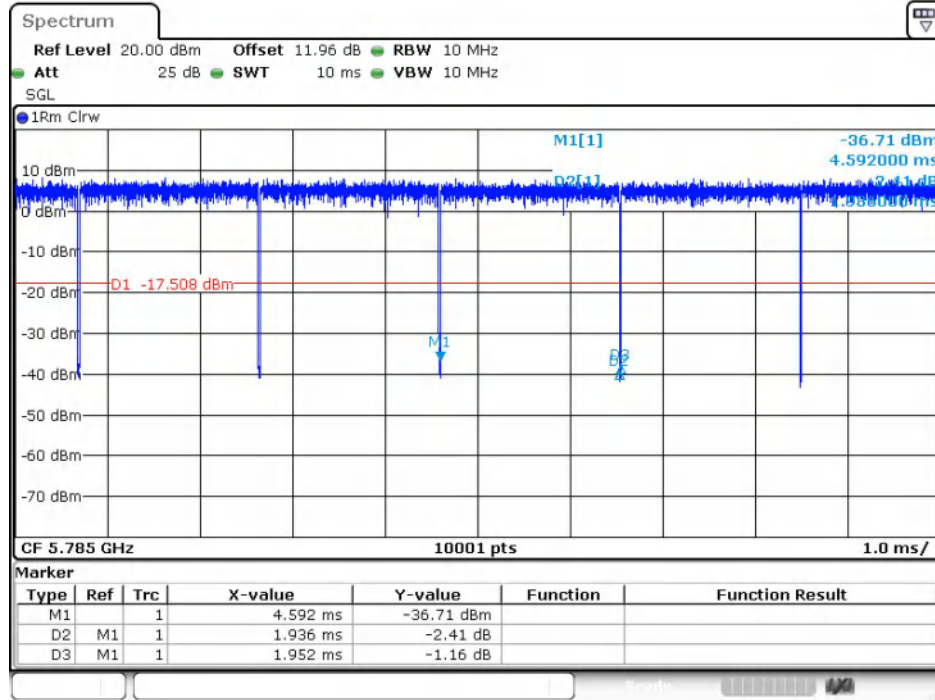
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IEEE 802.11n_40MHz_Channel 159



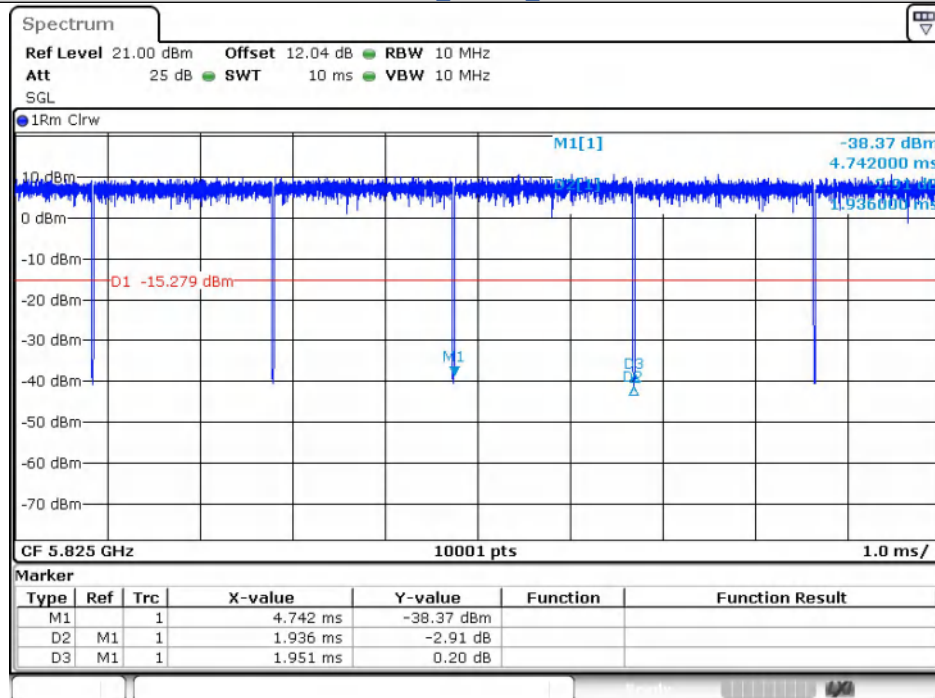
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IEEE 802.11ac_20MHz_Channel 149



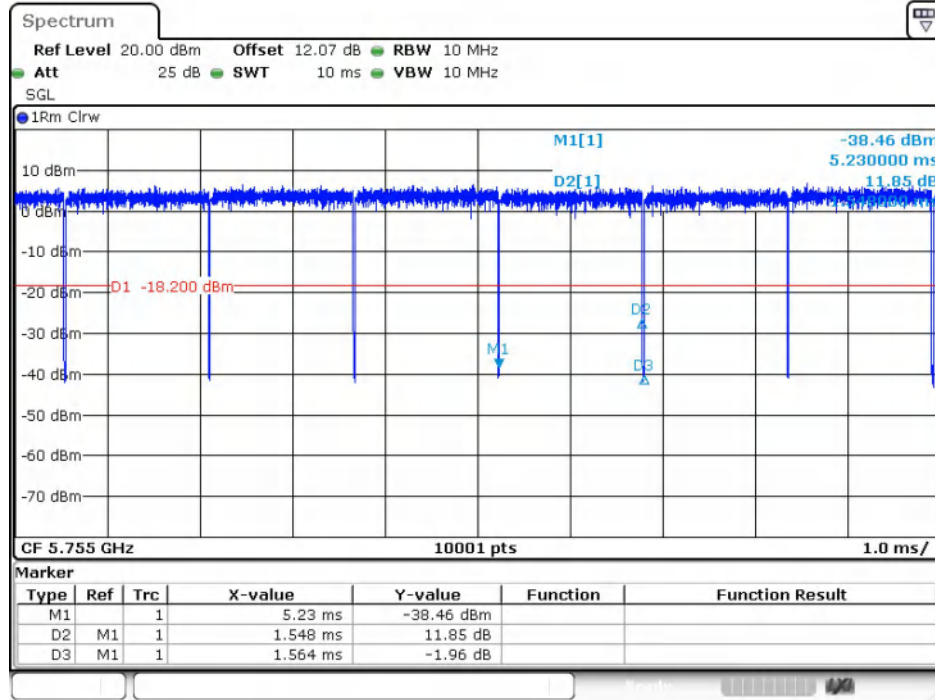
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IEEE 802.11ac_20MHz_Channel 157



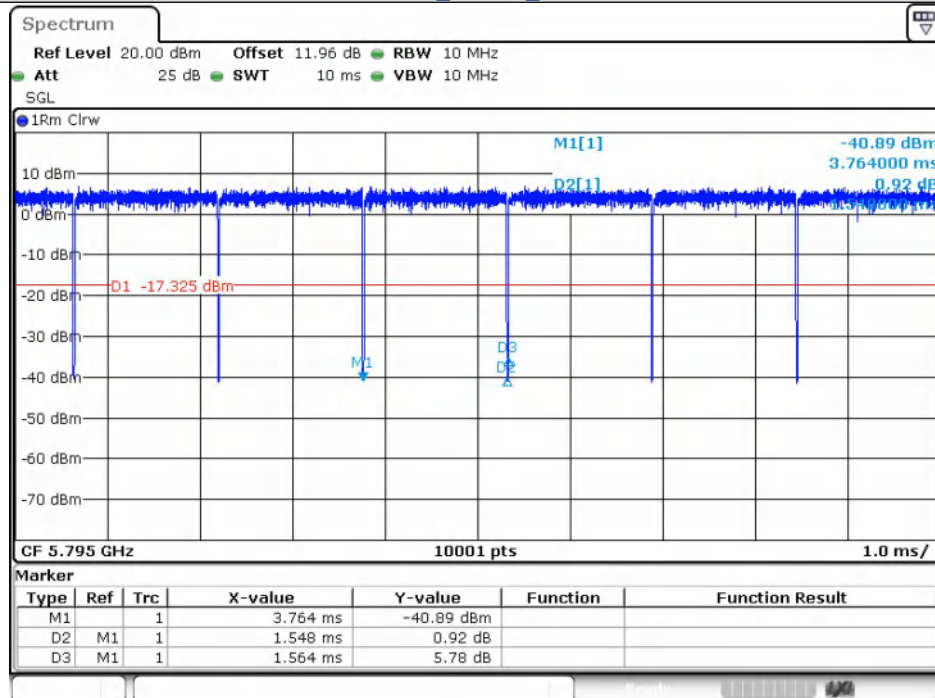
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IEEE 802.11ac_20MHz_Channel 165



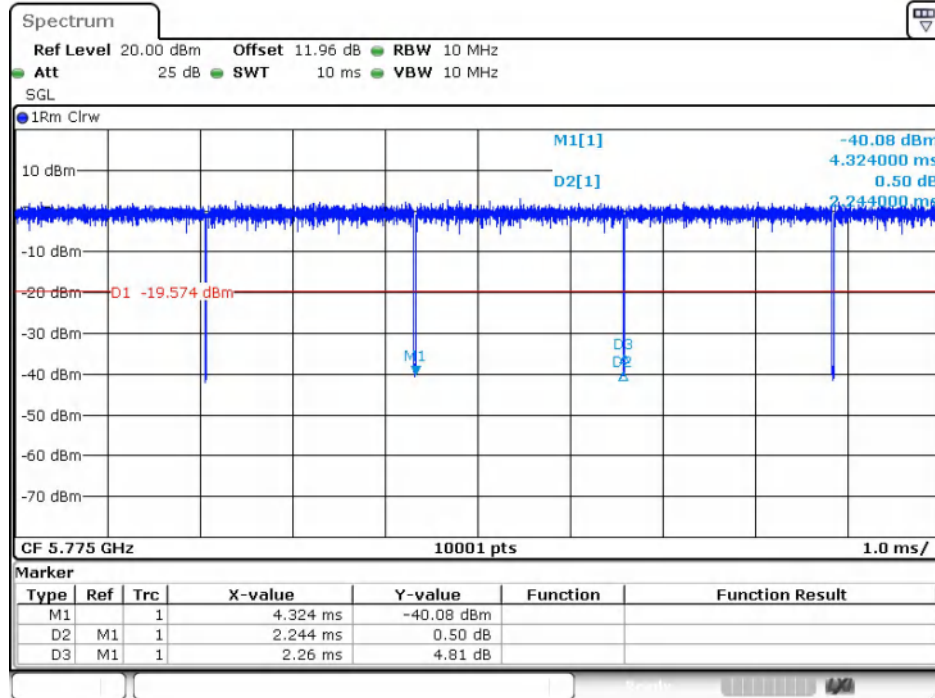
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IEEE 802.11ac_40MHz_Channel 151



Date: 8.OCT.2024 17:04:04

IEEE 802.11ac_40MHz_Channel 159



Date: 8.OCT.2024 17:08:05

IEEE 802.11ac_80MHz_Channel 155

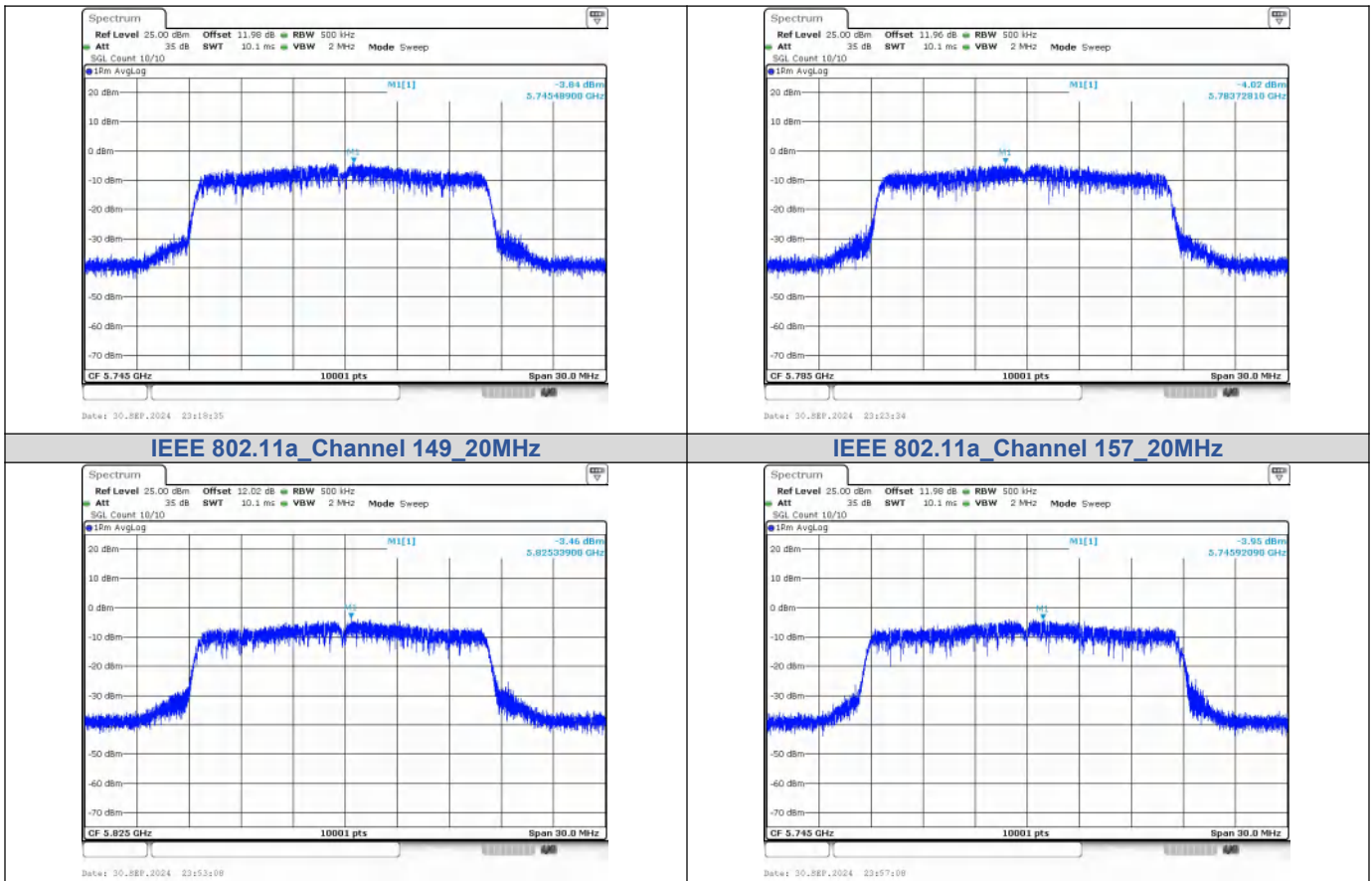
Peak Power Spectral Density

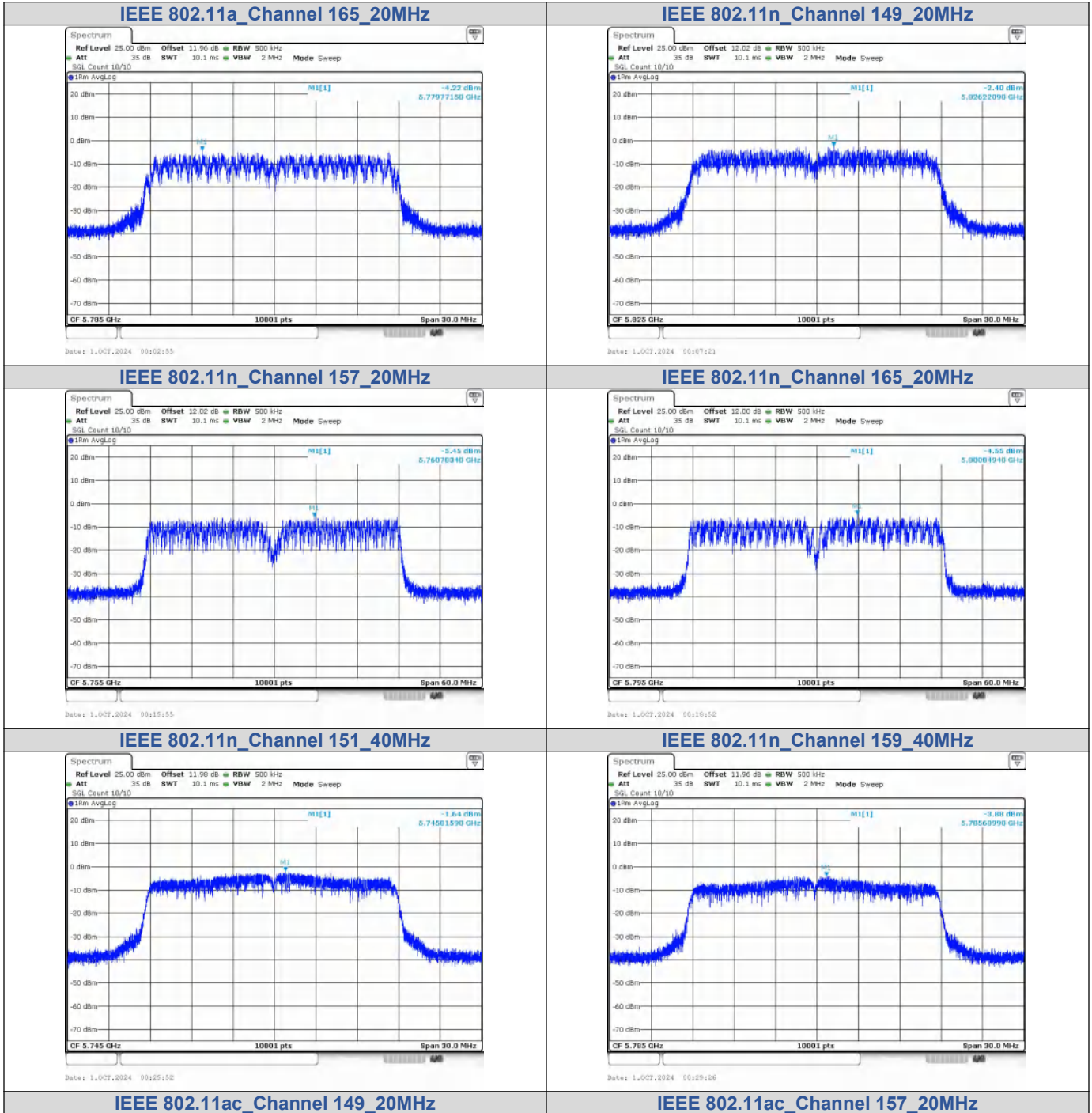
ANT1:

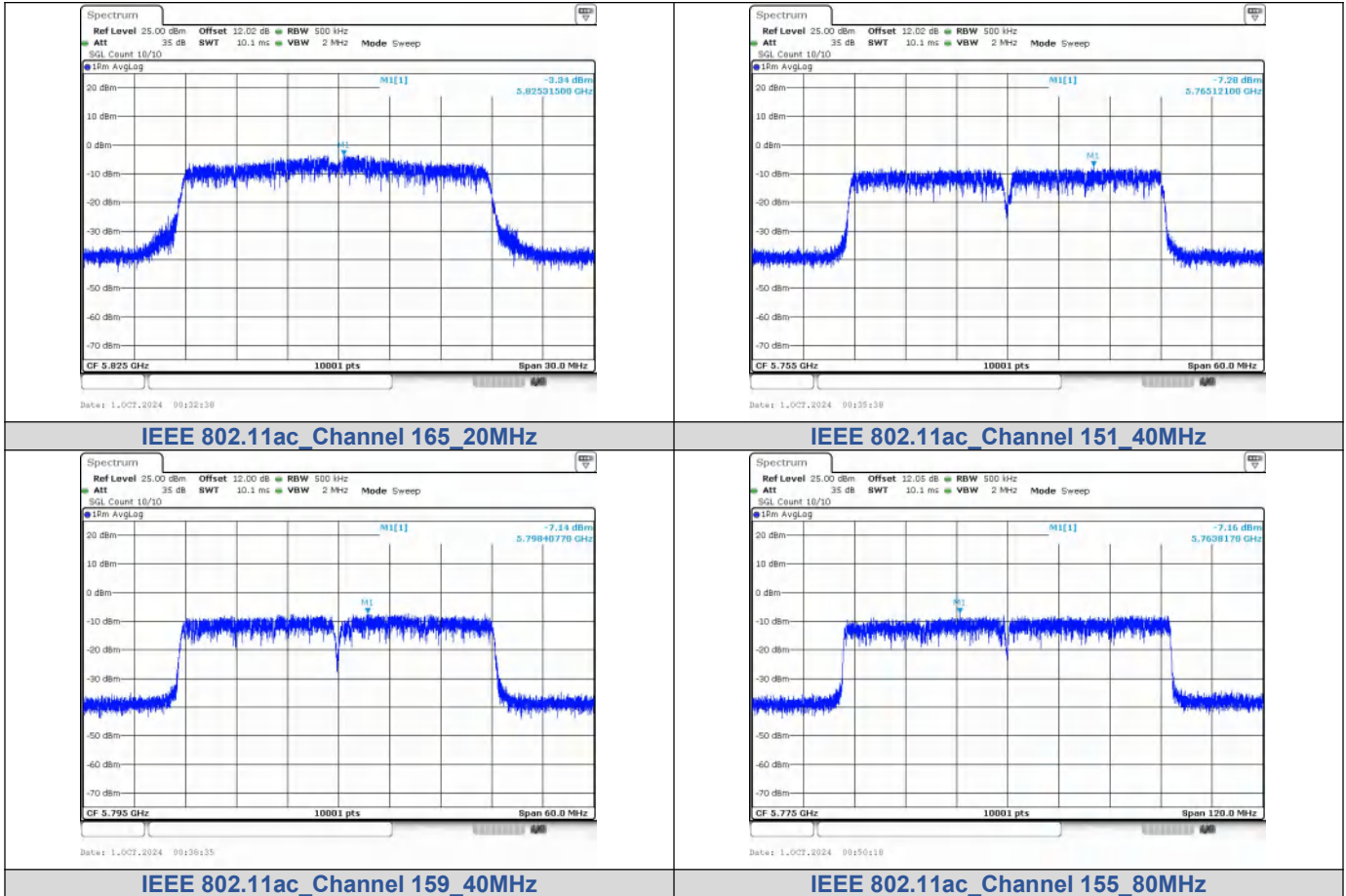
Test Result

Mode	Channel	Ant. 1 Meas PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	149	-3.84	30	PASS
	157	-4.02		PASS
	165	-3.46		PASS
IEEE 802.11n_20	149	-3.95		PASS
	157	-4.22		PASS
	165	-2.40		PASS
IEEE 802.11n_40	151	-5.45		PASS
	159	-4.55		PASS
IEEE 802.11ac_20	149	-1.64		PASS
	157	-3.88		PASS
	165	-3.34		PASS
IEEE 802.11ac_40	151	-7.28		PASS
IEEE 802.11ac_80	159	-7.14		PASS
IEEE 802.11ac_80	155	-7.16		PASS

Test Graphs





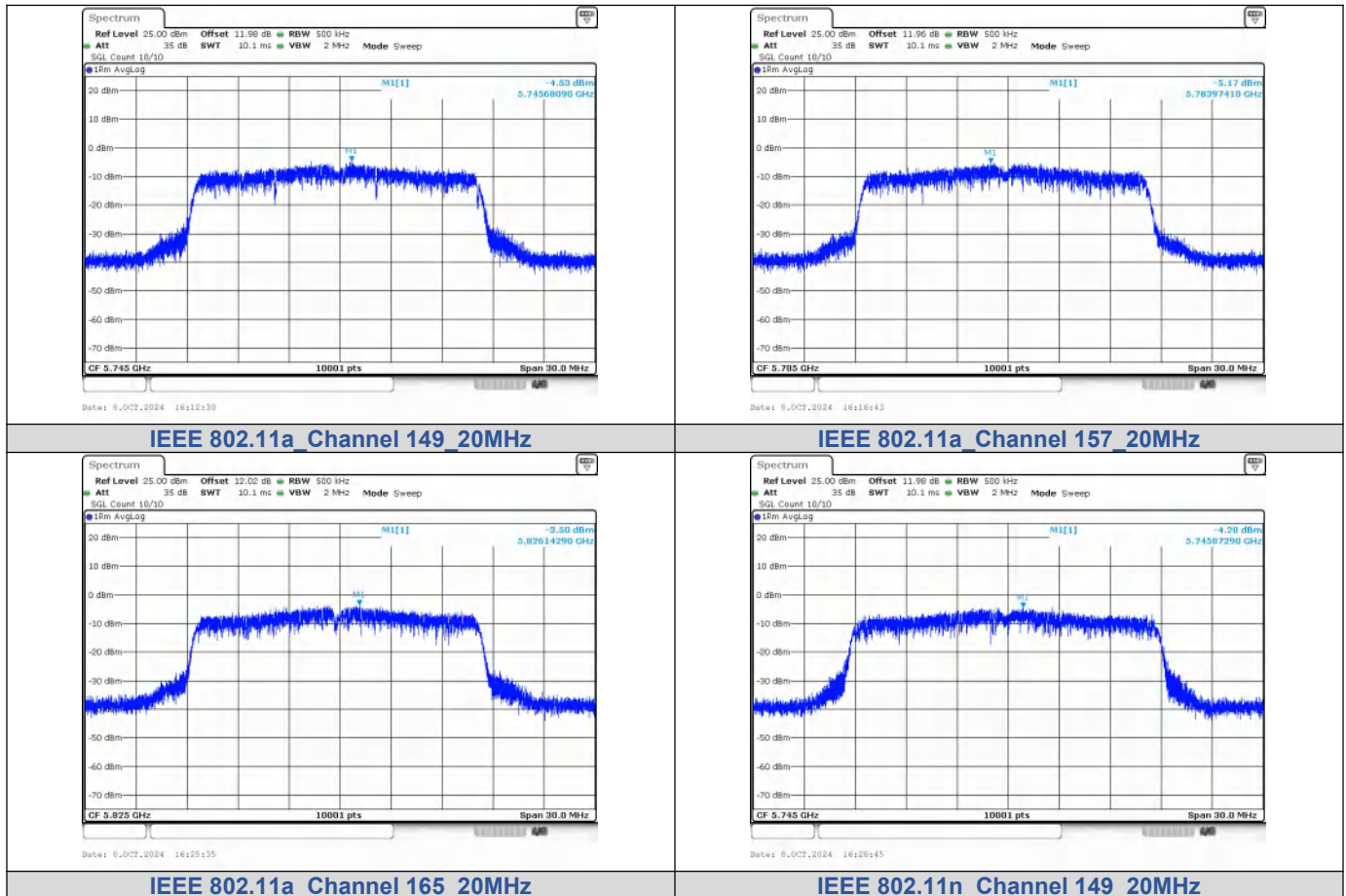


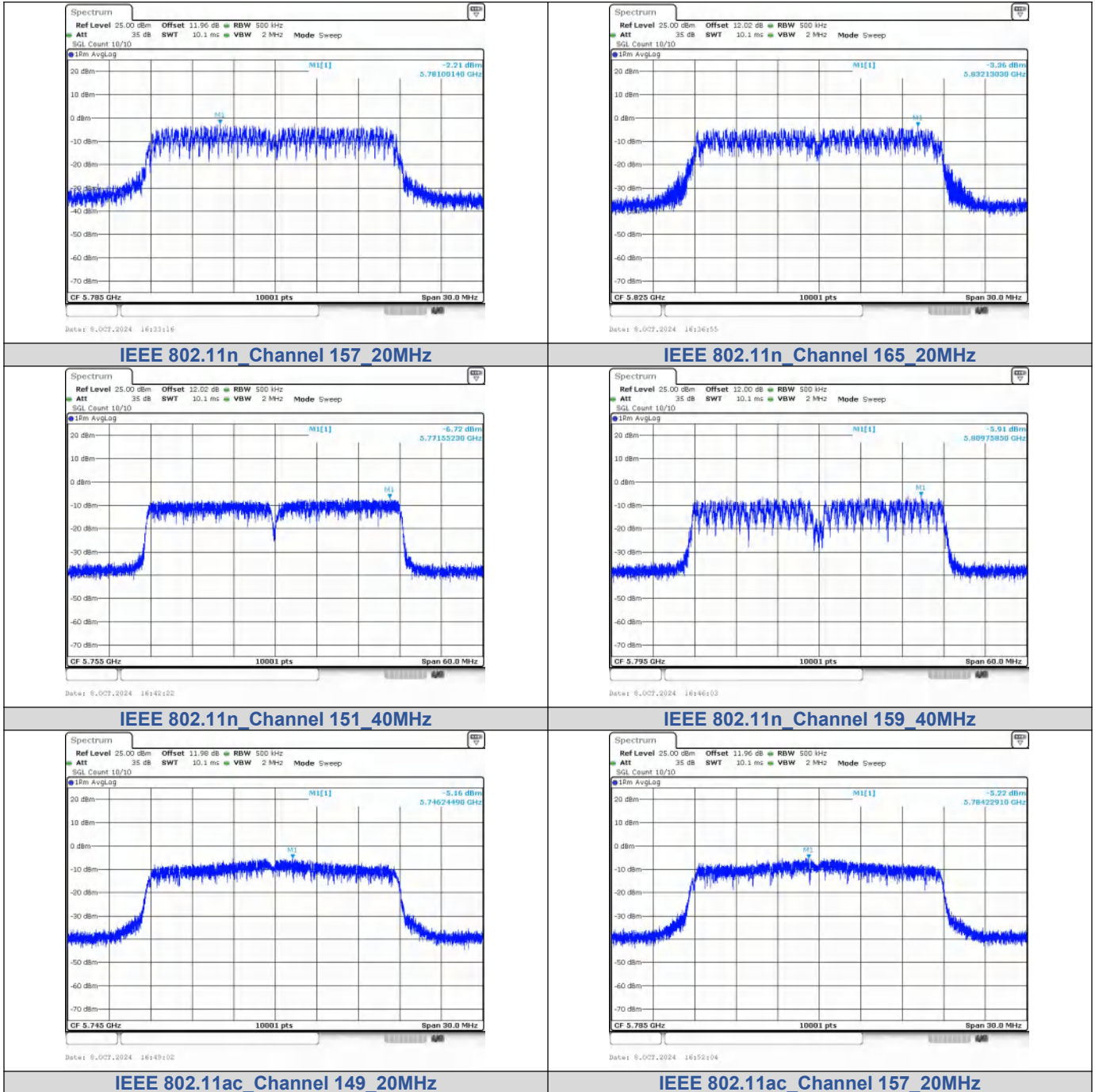
ANT2:

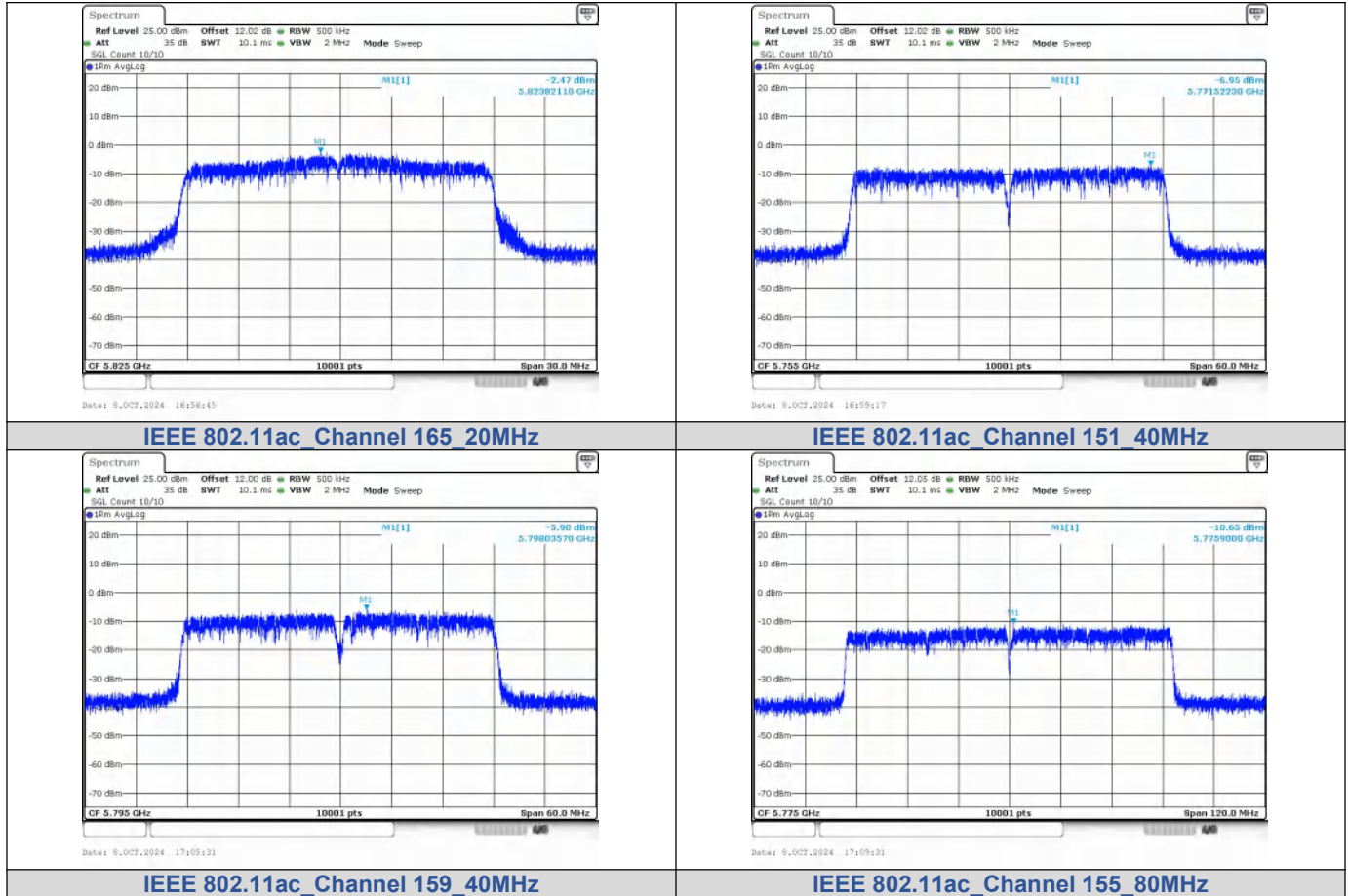
Test Result

Mode	Channel	Ant. 2 Meas PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	149	-4.54	30	PASS
	157	-5.17		PASS
	165	-3.50		PASS
IEEE 802.11n_20	149	-4.28		PASS
	157	-2.21		PASS
	165	-3.36		PASS
IEEE 802.11n_40	151	-6.72		PASS
	159	-5.91		PASS
IEEE 802.11ac_20	149	-5.16		PASS
	157	-5.22		PASS
	165	-2.47		PASS
IEEE 802.11ac_40	151	-6.95		PASS
	159	-5.90		PASS
IEEE 802.11ac_80	155	-10.65		PASS

Test Graphs







MIMO

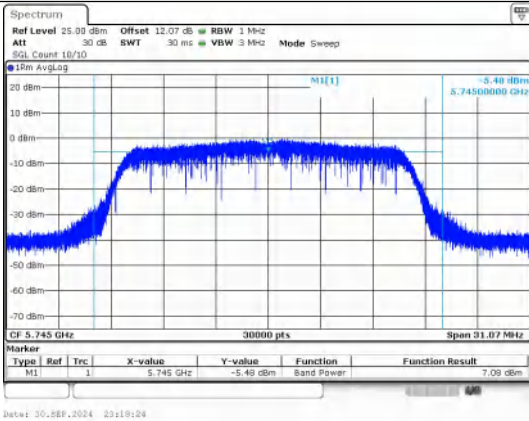
Mode	Channel	Ant. 1 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 2 Meas PSD (dBm/MHz or dBm/0.5MHz)	MIMO Meas PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11n_20	149	-3.95	-4.28	-1.10	30	PASS
	157	-4.22	-2.21	-0.09		PASS
	165	-2.40	-3.36	0.16		PASS
IEEE 802.11n_40	151	-5.45	-6.72	-3.03		PASS
	159	-4.55	-5.91	-2.17		PASS
	149	-1.64	-5.16	-0.04		PASS
IEEE 802.11ac_20	157	-3.88	-5.22	-1.49		PASS
	165	-3.34	-2.47	0.13		PASS
	151	-7.28	-6.95	-4.10		PASS
IEEE 802.11ac_40	159	-7.14	-5.90	-3.47		PASS
	155	-7.16	-10.65	-5.55		PASS

Conducted AVG Output Power

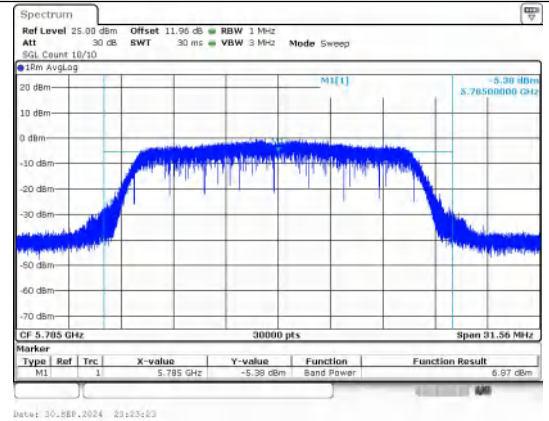
ANT1:

Conducted output power

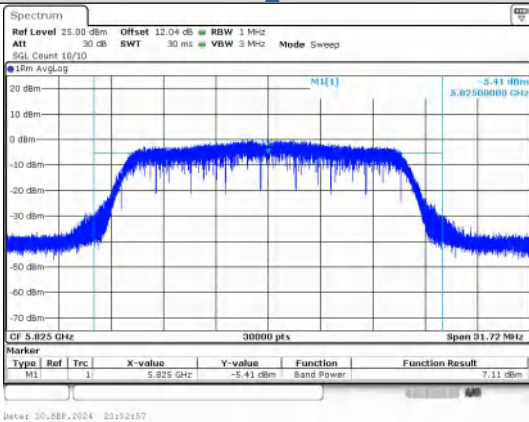
Mode	Channel	Ant. 1 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	7.08	≤30	PASS
	157	6.87	≤30	PASS
	165	7.11	≤30	PASS
IEEE 802.11n_20	149	7.42	≤30	PASS
	157	7.66	≤30	PASS
	165	8.24	≤30	PASS
IEEE 802.11n_40	151	7.92	≤30	PASS
	159	8.70	≤30	PASS
IEEE 802.11ac_20	149	7.57	≤30	PASS
	157	7.26	≤30	PASS
	165	7.83	≤30	PASS
IEEE 802.11ac_40	151	7.73	≤30	PASS
	159	7.94	≤30	PASS
IEEE 802.11ac_80	155	6.77	≤30	PASS



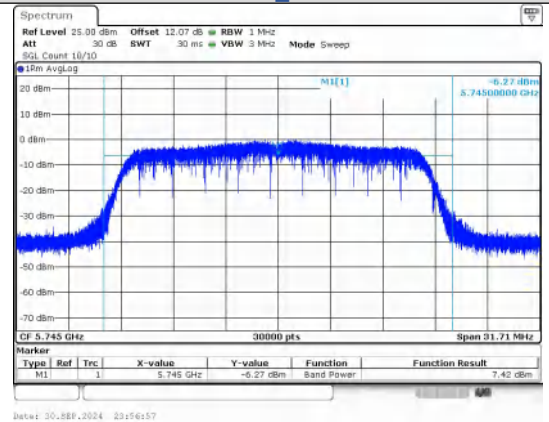
Conducted AVG output power
IEEE 802.11a_Channel 149



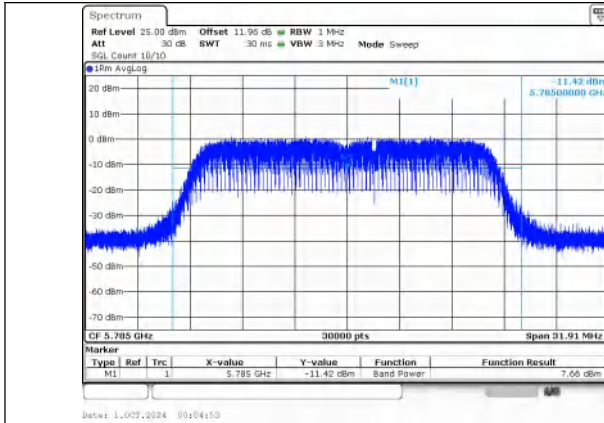
Conducted AVG output power
IEEE 802.11a_Channel 157



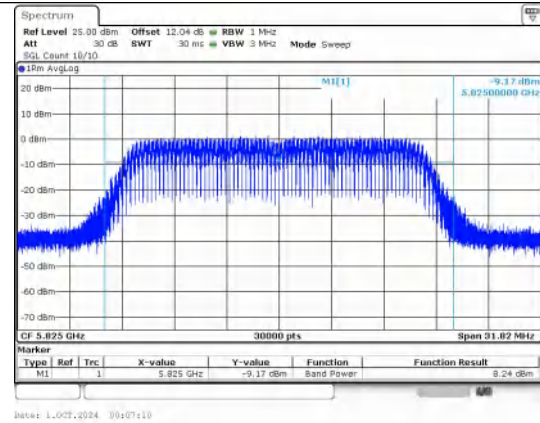
Conducted AVG output power
IEEE 802.11a_Channel 165



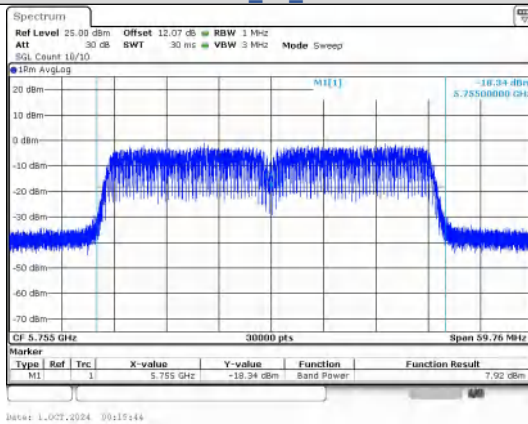
Conducted AVG output power
IEEE 802.11n_20_Channel 149



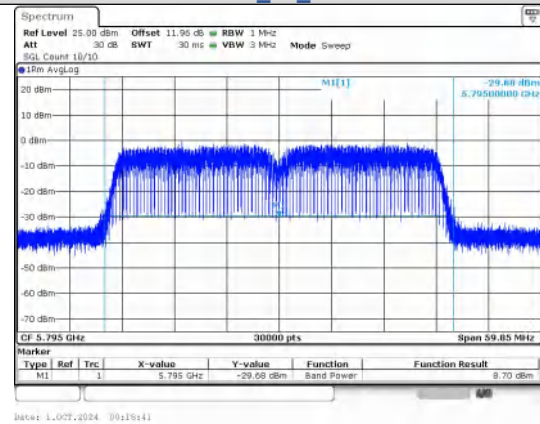
**Conducted AVG output power
IEEE 802.11n_20_Channel 157**



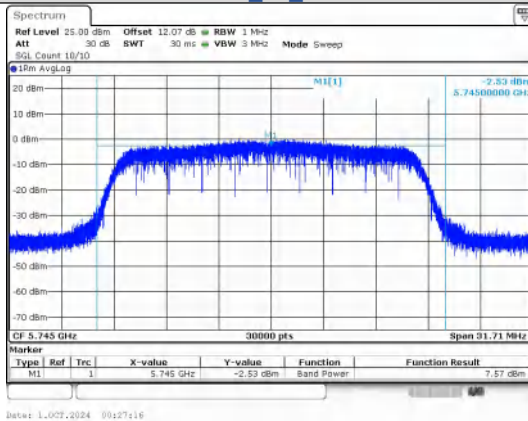
**Conducted AVG output power
IEEE 802.11n_20_Channel 165**



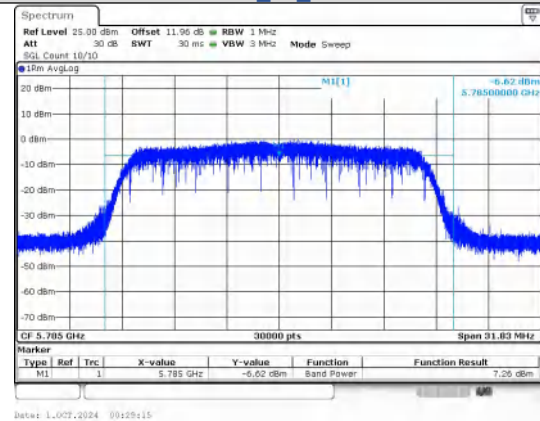
**Conducted AVG output power
IEEE 802.11n_40_Channel 151**



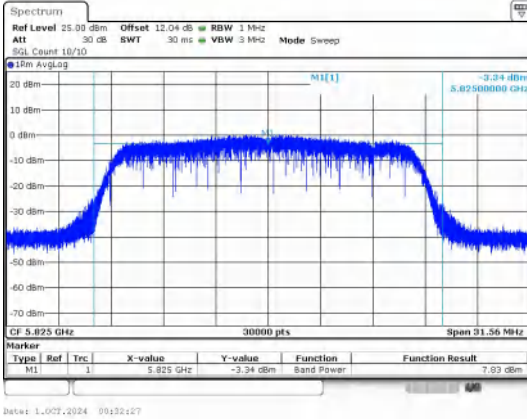
**Conducted AVG output power
IEEE 802.11n_40_Channel 159**



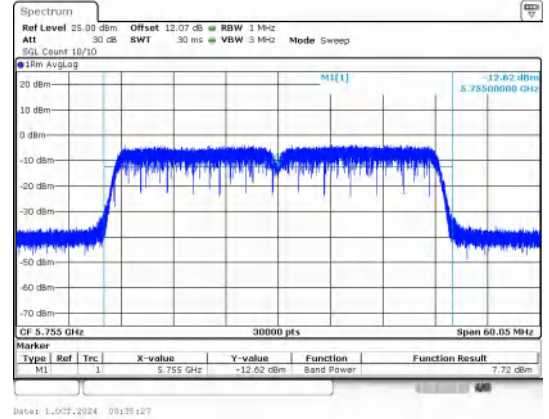
**Conducted AVG output power
IEEE 802.11ac_20_Channel 149**



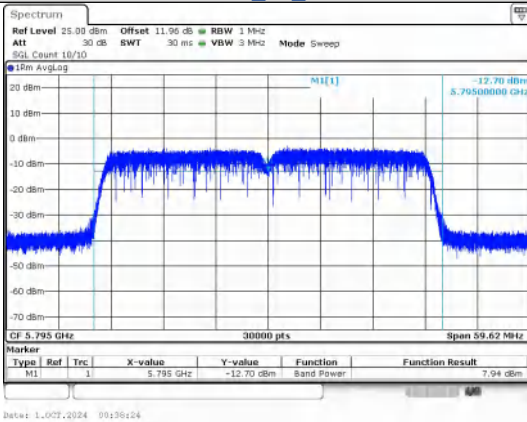
**Conducted AVG output power
IEEE 802.11ac_20_Channel 157**



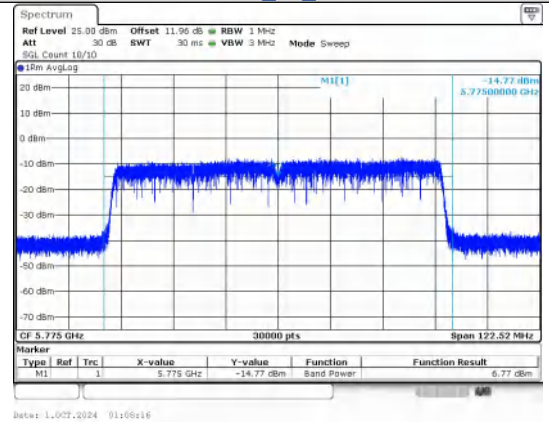
**Conducted AVG output power
IEEE 802.11ac_20_Channel 165**



**Conducted AVG output power
IEEE 802.11ac_40_Channel 151**



**Conducted AVG output power
IEEE 802.11ac_40_Channel 159**

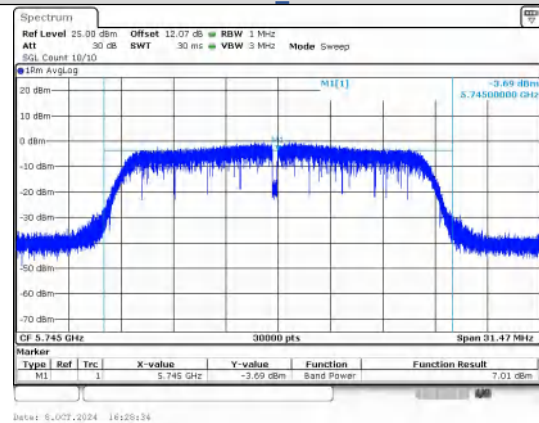
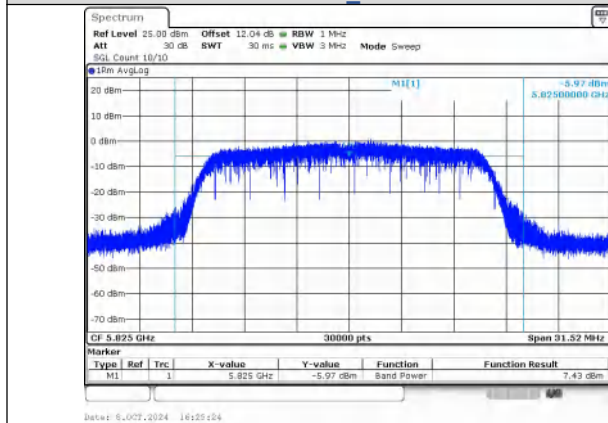
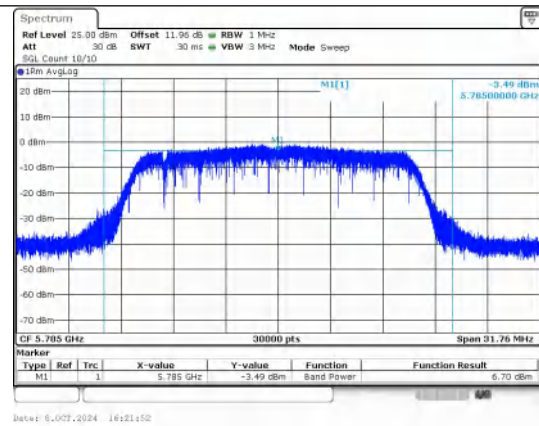
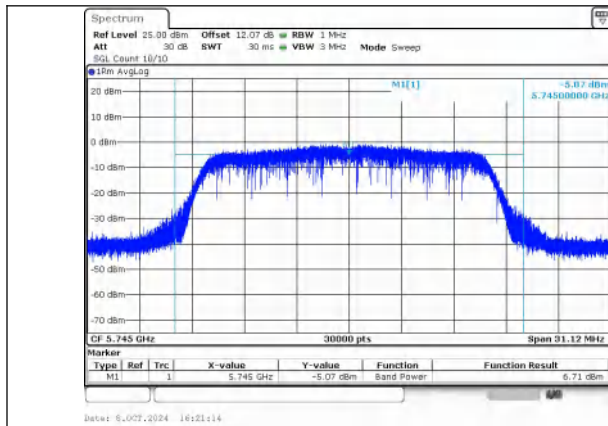


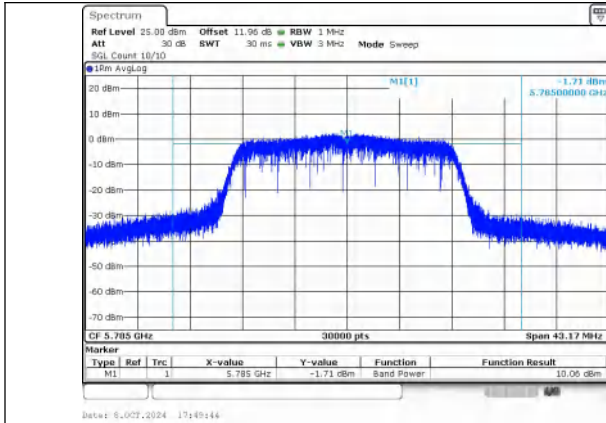
**Conducted AVG output power
IEEE 802.11ac_80_Channel 155**

ANT2:

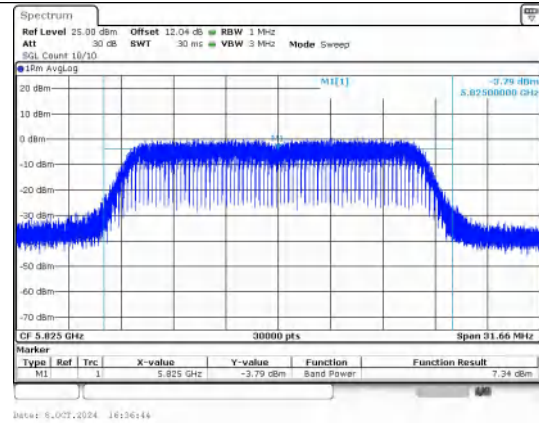
Conducted output power

Mode	Channel	Ant. 2 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	6.71	≤30	PASS
	157	6.70	≤30	PASS
	165	7.43	≤30	PASS
IEEE 802.11n_20	149	7.01	≤30	PASS
	157	10.06	≤30	PASS
	165	7.34	≤30	PASS
IEEE 802.11n_40	151	8.38	≤30	PASS
	159	7.27	≤30	PASS
IEEE 802.11ac_20	149	7.45	≤30	PASS
	157	8.10	≤30	PASS
	165	8.63	≤30	PASS
IEEE 802.11ac_40	151	8.34	≤30	PASS
	159	8.78	≤30	PASS
IEEE 802.11ac_80	155	7.30	≤30	PASS

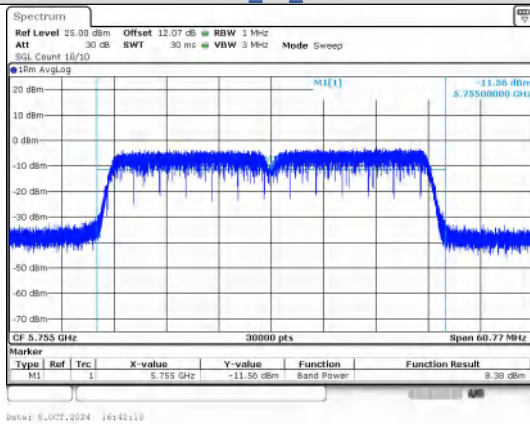




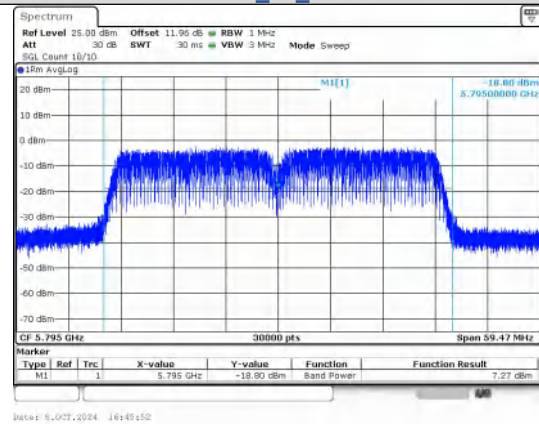
**Conducted AVG output power
IEEE 802.11n_20_Channel 157**



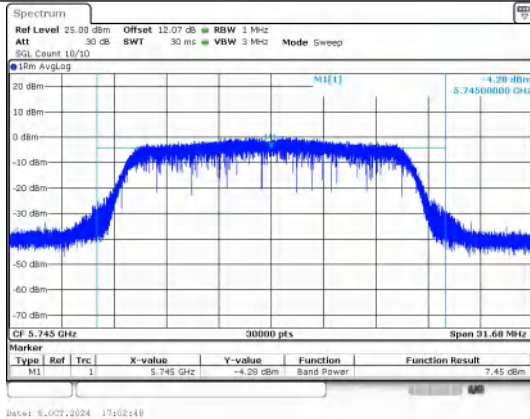
**Conducted AVG output power
IEEE 802.11n_20_Channel 165**



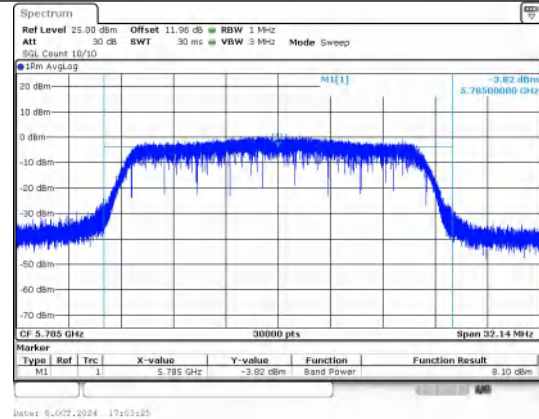
**Conducted AVG output power
IEEE 802.11n_40_Channel 151**



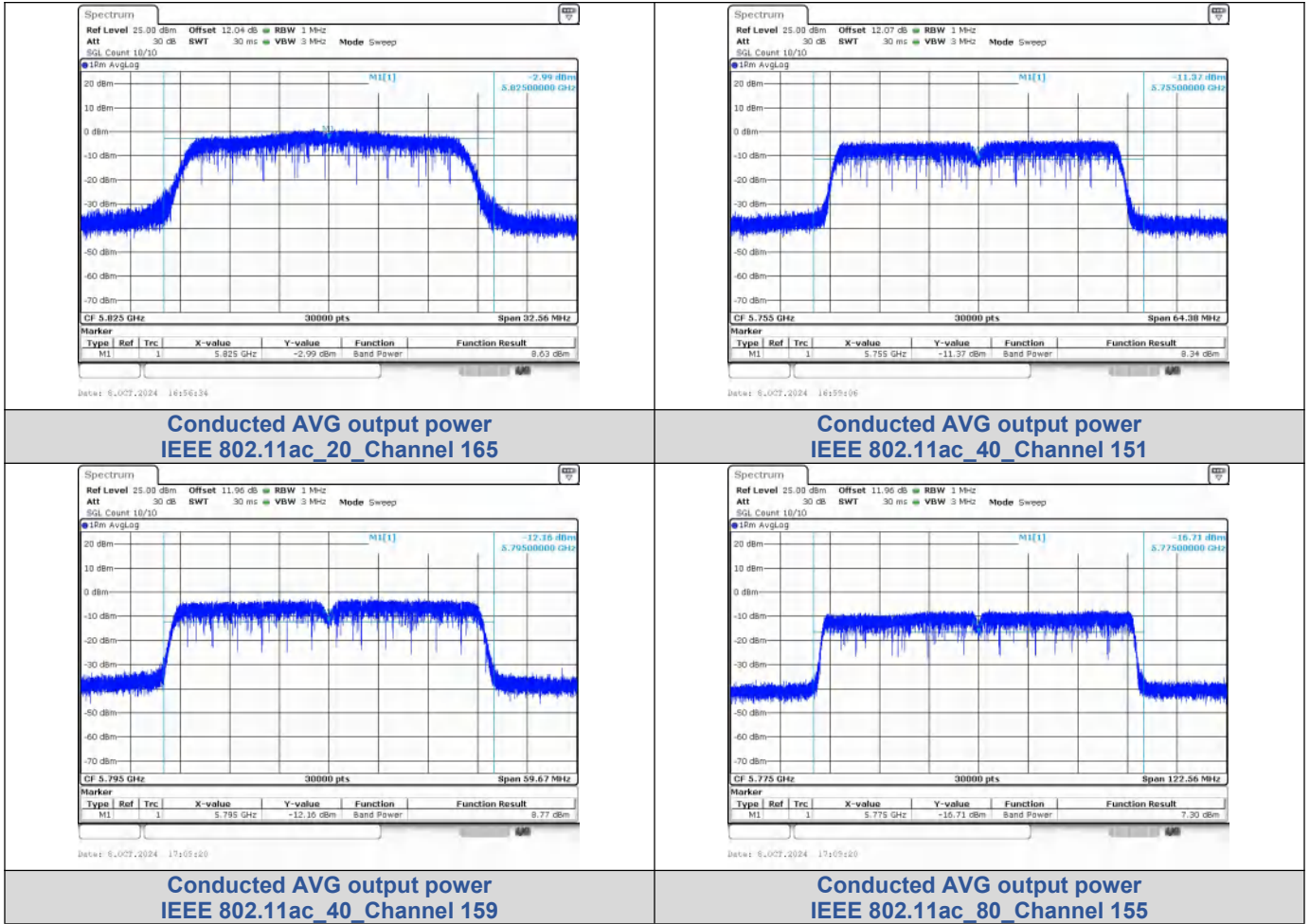
**Conducted AVG output power
IEEE 802.11n_40_Channel 159**



**Conducted AVG output power
IEEE 802.11ac_20_Channel 149**



**Conducted AVG output power
IEEE 802.11ac_20_Channel 157**



MIMO

Mode	Channel	Ant. 1 (dBm)	Ant. 2 (dBm)	MIMO (dBm)	Limit (dBm)	Result
IEEE 802.11n_20	149	7.42	6.71	10.09	≤30	PASS
	157	7.66	6.70	10.22	≤30	PASS
	165	8.24	7.43	10.86	≤30	PASS
IEEE 802.11n_40	151	7.92	7.01	10.50	≤30	PASS
	159	8.70	10.06	12.44	≤30	PASS
	149	7.57	7.34	10.47	≤30	PASS
IEEE 802.11ac_20	157	7.26	8.38	10.87	≤30	PASS
	165	7.83	7.27	10.57	≤30	PASS
	151	7.73	7.45	10.60	≤30	PASS
IEEE 802.11ac_40	159	7.94	8.10	11.03	≤30	PASS
IEEE 802.11ac_80	155	6.77	8.63	10.81	≤30	PASS

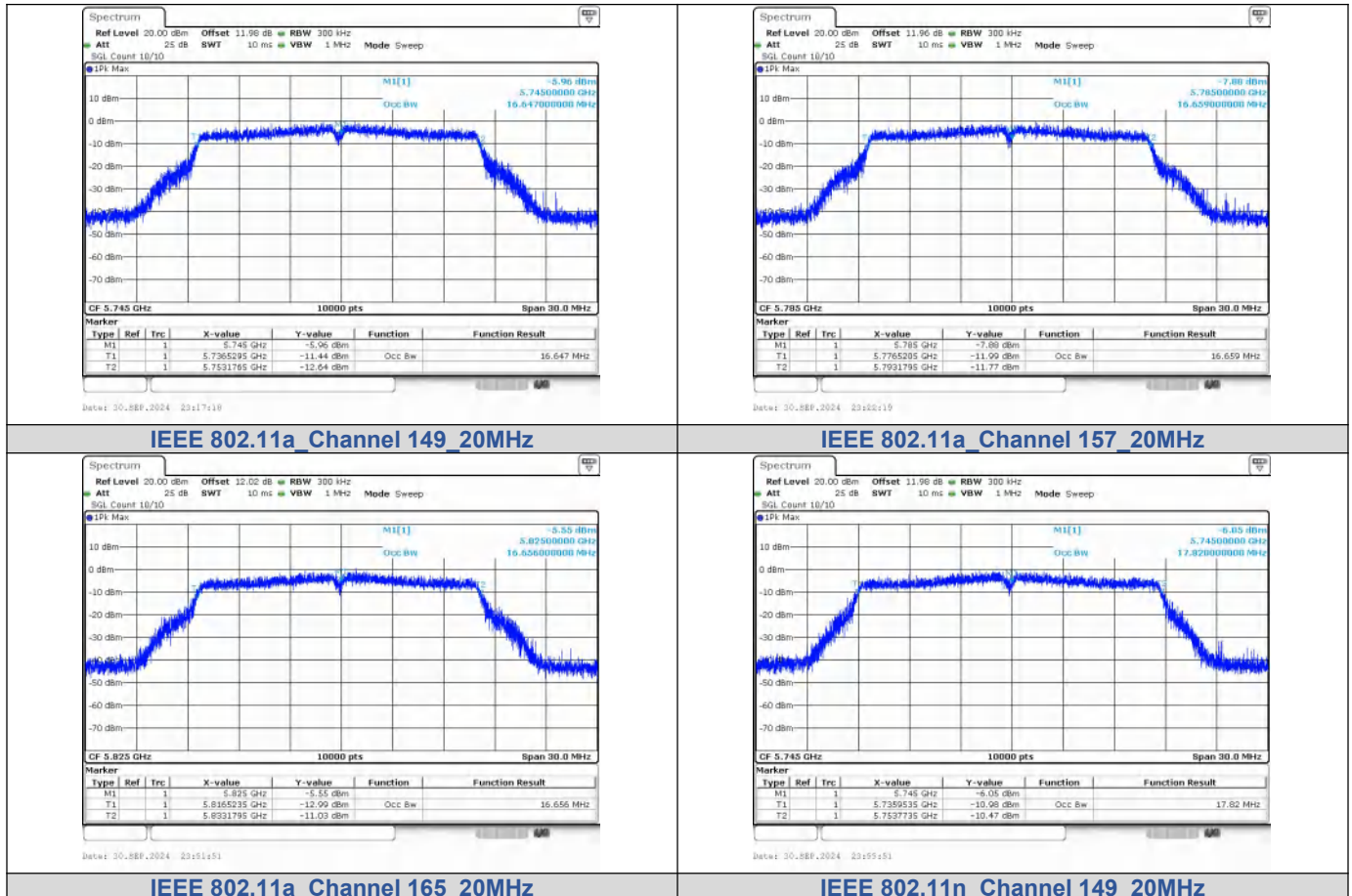
99% Bandwidth

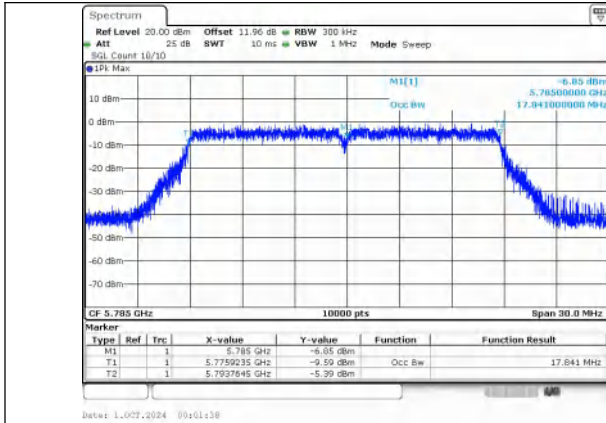
ANT1:

Test Result

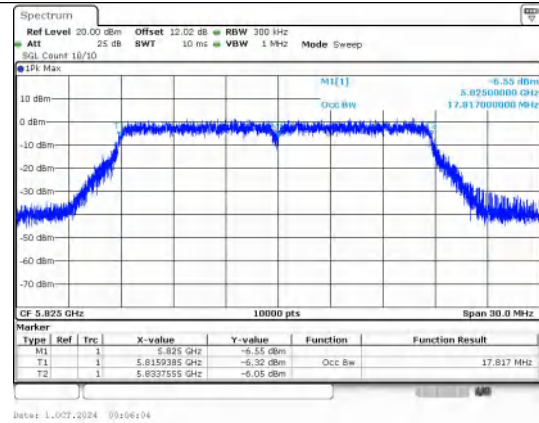
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	N/A	1	5745	16.647
	157			5785	16.659
	165			5825	16.656
IEEE 802.11n_20	149			5745	17.820
	157			5785	17.841
	165			5825	17.817
IEEE 802.11n_40	151			5755	36.288
	159			5795	36.246
IEEE 802.11ac_20	149			5745	17.805
	157			5785	17.829
	165			5825	17.808
IEEE 802.11ac_40	151			5755	36.282
	159			5795	36.234
IEEE 802.11ac_80	155			5775	75.840

Test Graphs

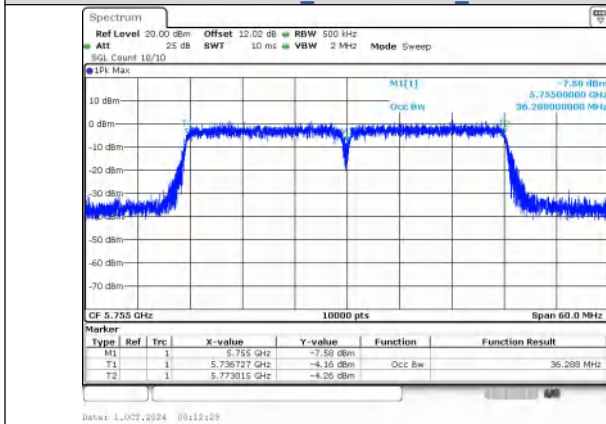




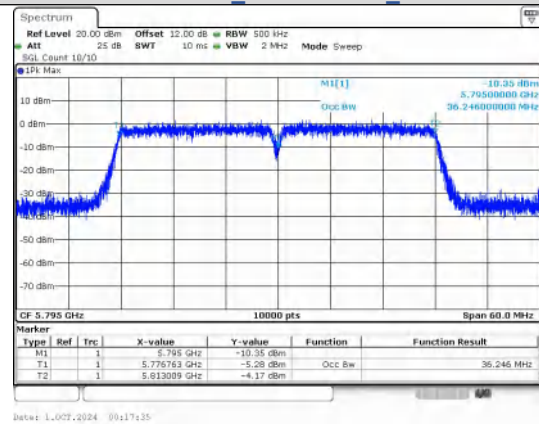
IEEE 802.11n Channel 157 20MHz



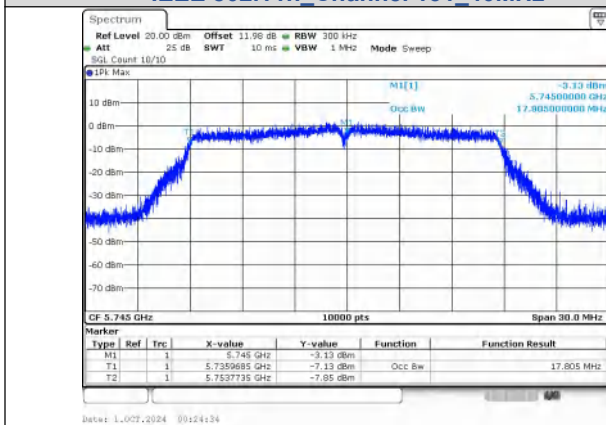
IEEE 802.11n Channel 165 20MHz



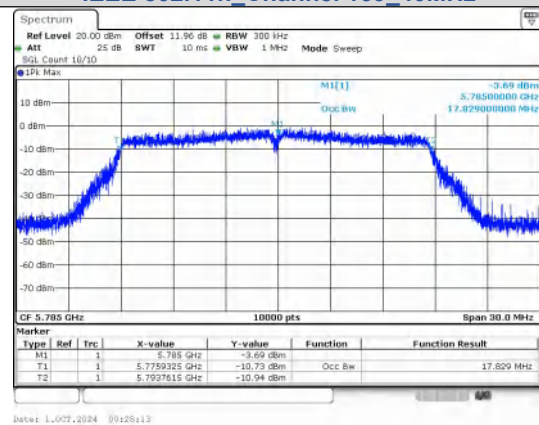
IEEE 802.11n Channel 157 40MHz



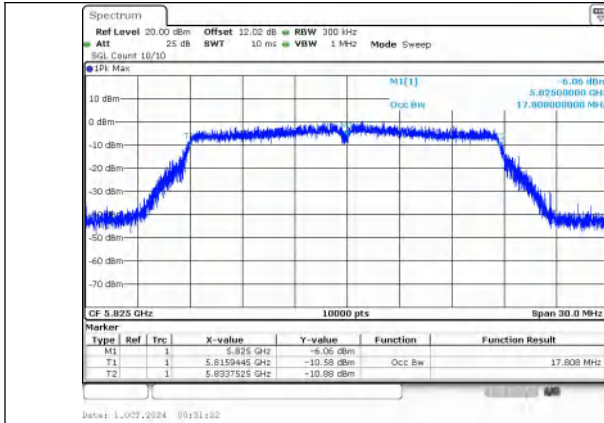
IEEE 802.11n Channel 165 40MHz



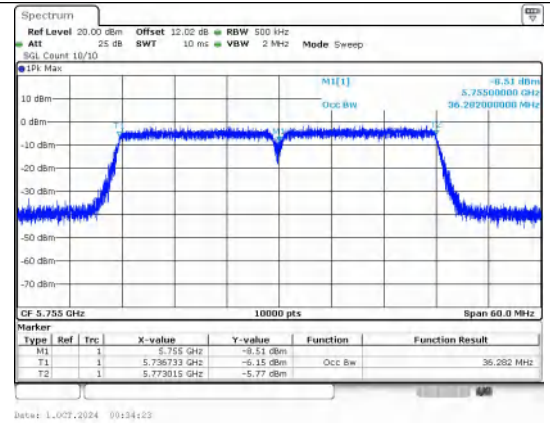
IEEE 802.11ac Channel 149 20MHz



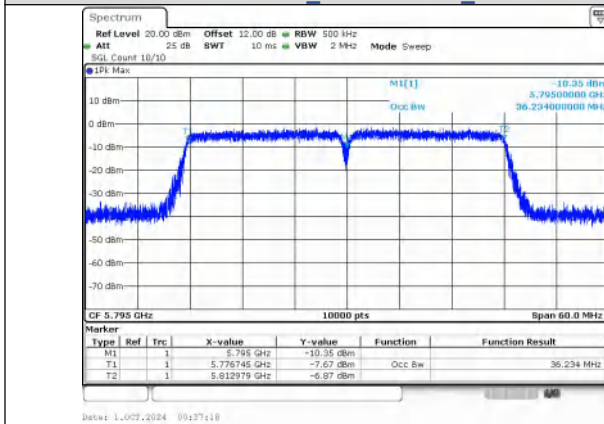
IEEE 802.11ac Channel 157 20MHz



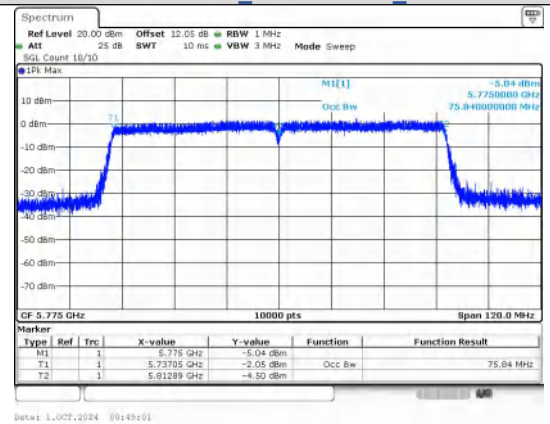
IEEE 802.11ac_Channel 165_20MHz



IEEE 802.11ac_Channel 151_40MHz



IEEE 802.11ac_Channel 159_40MHz



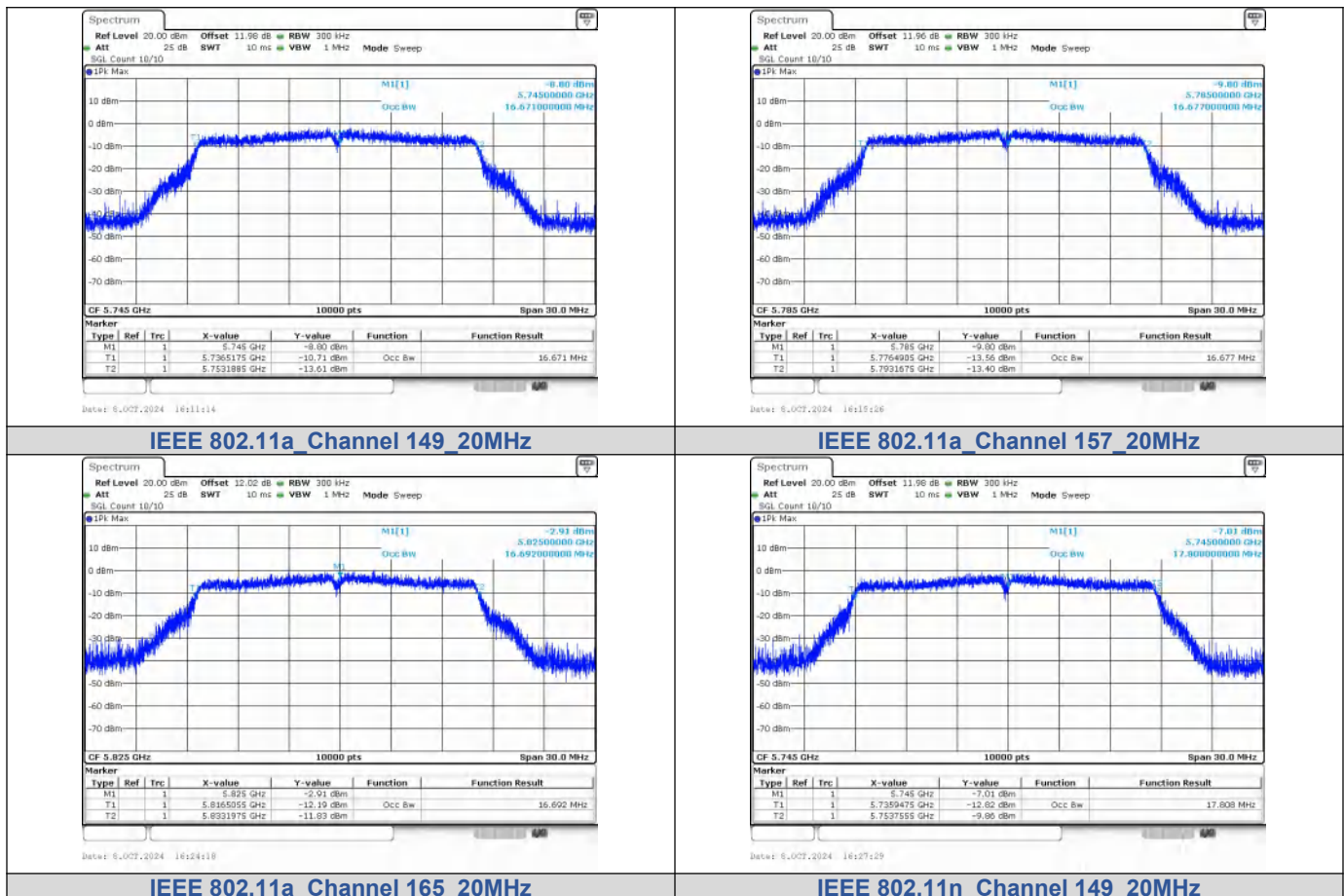
IEEE 802.11ac_Channel 155_80MHz

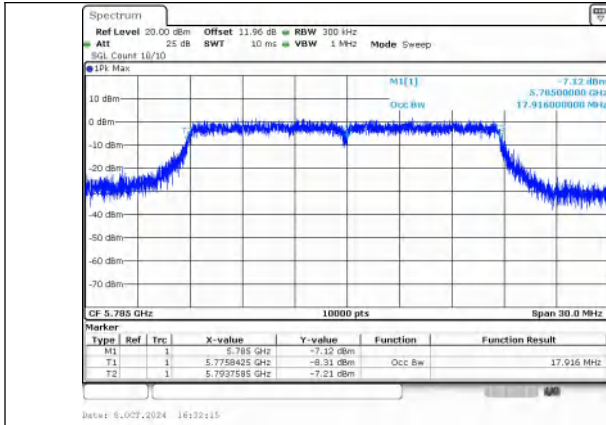
ANT2:

Test Result

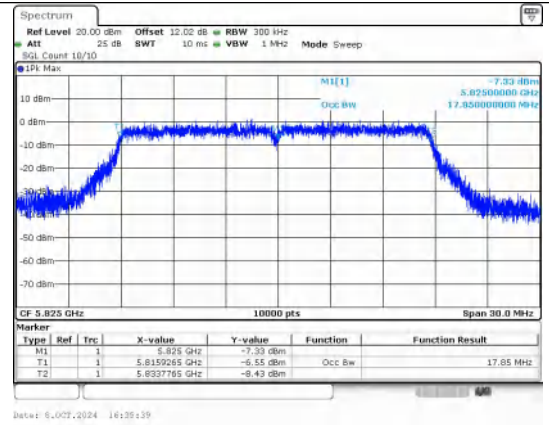
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	2	5745	16.671
	157		5785	16.677
	165		5825	16.692
IEEE 802.11n_20	149		5745	17.808
	157		5785	17.916
	165		5825	17.850
IEEE 802.11n_40	151		5755	36.294
	159		5795	36.312
IEEE 802.11ac_20	149		5745	17.820
	157		5785	17.814
	165		5825	17.817
IEEE 802.11ac_40	151		5755	36.342
	159		5795	36.246
IEEE 802.11ac_80	155		5775	75.864

Test Graphs

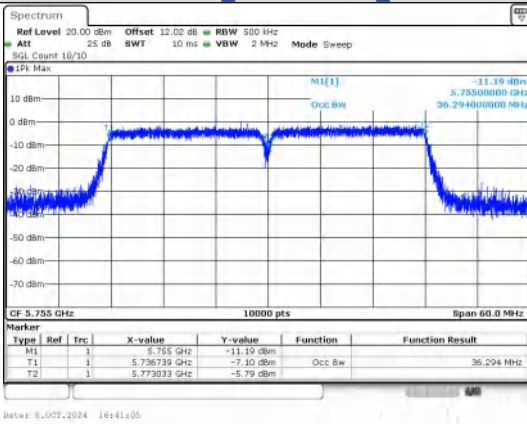




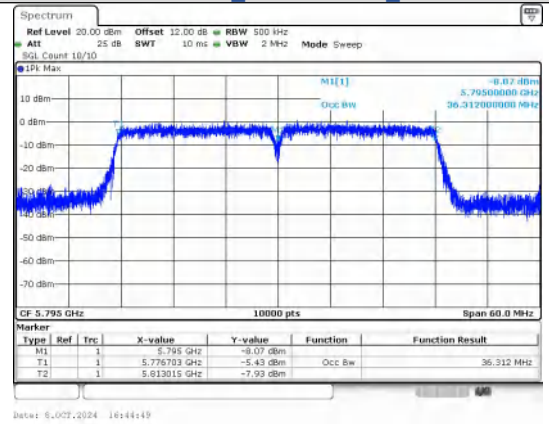
IEEE 802.11n Channel 157 20MHz



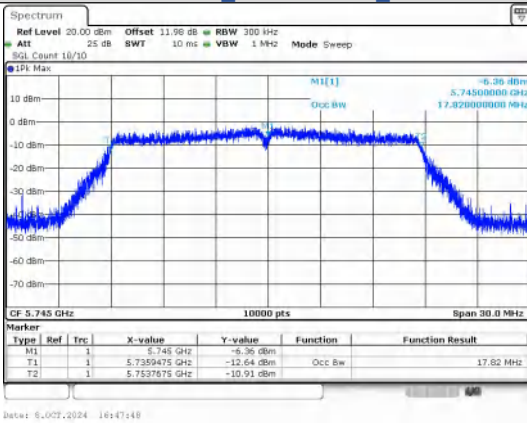
IEEE 802.11n Channel 165 20MHz



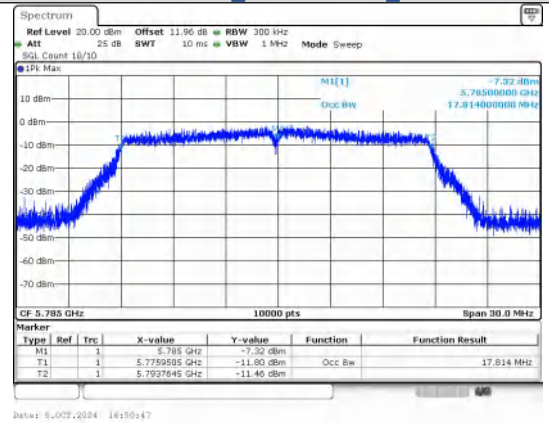
IEEE 802.11n Channel 157 40MHz



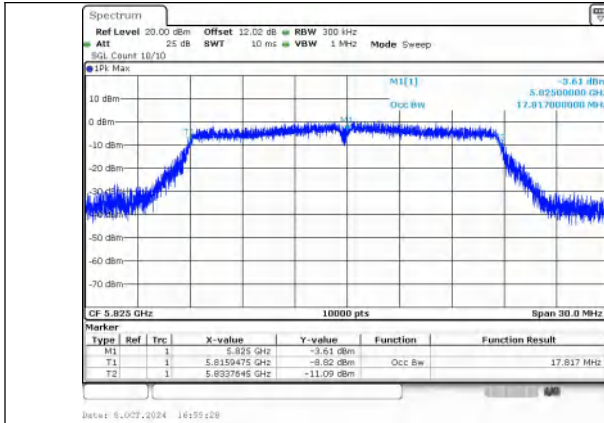
IEEE 802.11n Channel 165 40MHz



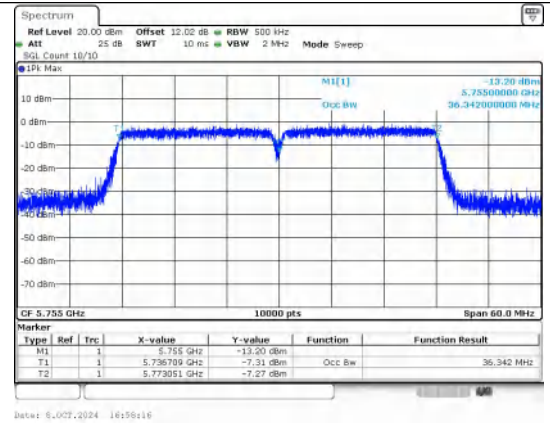
IEEE 802.11ac Channel 149 20MHz



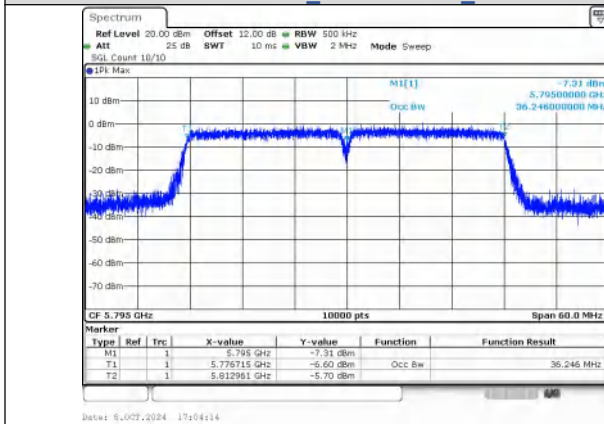
IEEE 802.11ac Channel 157 20MHz



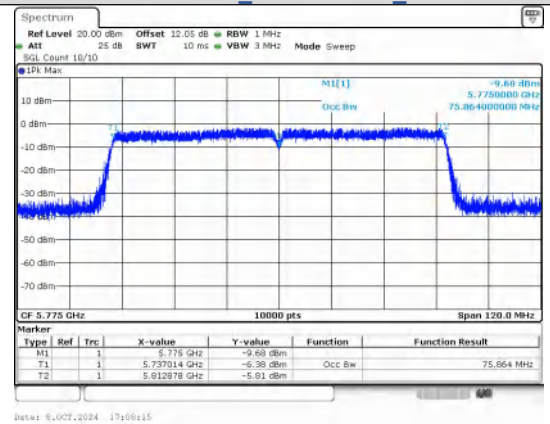
IEEE 802.11ac_Channel 165_20MHz



IEEE 802.11ac_Channel 151_40MHz



IEEE 802.11ac_Channel 159_40MHz



IEEE 802.11ac_Channel 155_80MHz

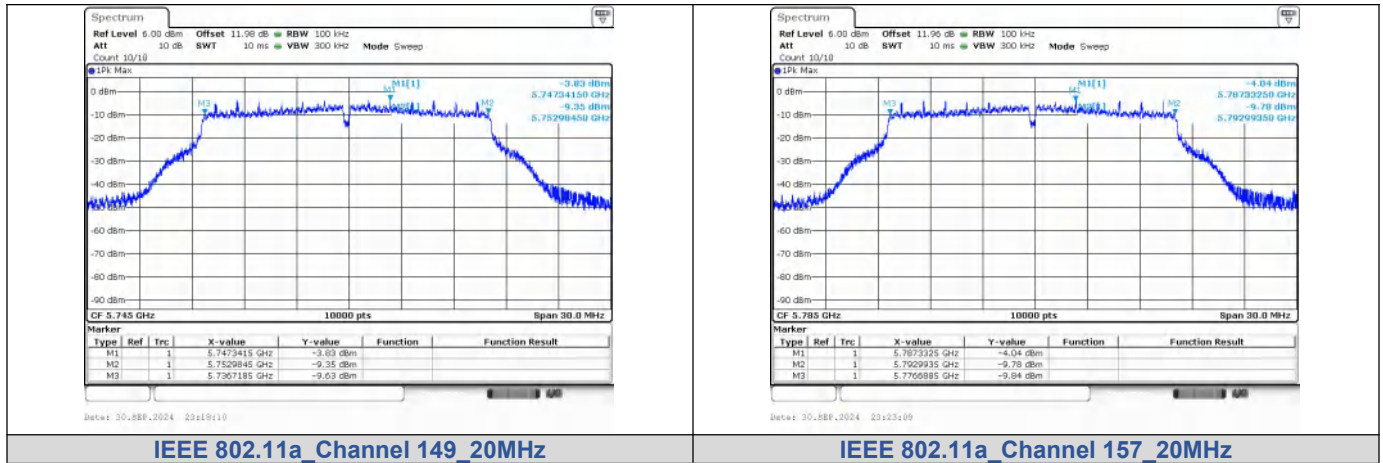
6dB Bandwidth

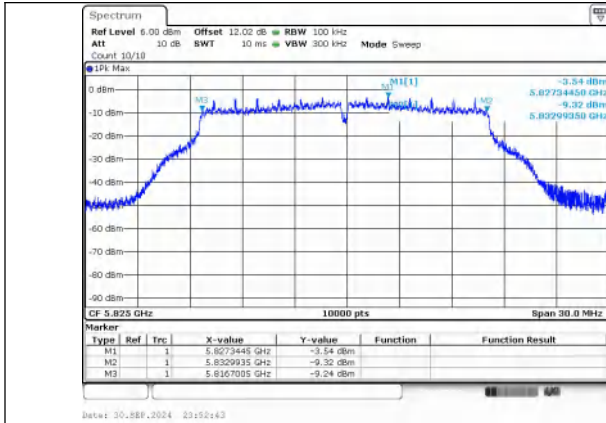
ANT1:

Test Result

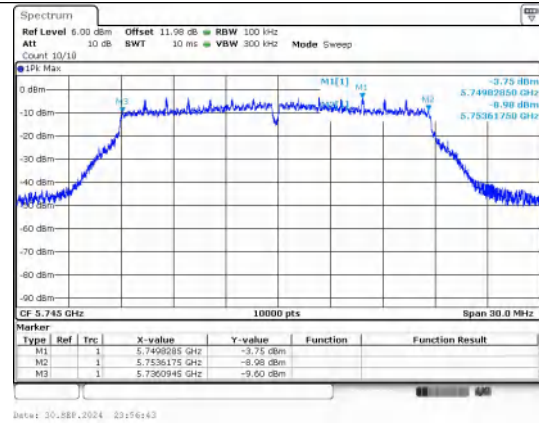
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	N/A	1	5745	16.26	≥0.5	PASS
	157			5785	16.30		PASS
	165			5825	16.29		PASS
IEEE 802.11n_20	149			5745	17.53		PASS
	157			5785	17.70		PASS
	165			5825	17.70		PASS
IEEE 802.11n_40	151			5755	36.42		PASS
	159			5795	36.40		PASS
IEEE 802.11ac_20	149			5745	17.16		PASS
	157			5785	17.52		PASS
	165			5825	17.28		PASS
IEEE 802.11ac_40	151			5755	36.30		PASS
	159			5795	36.29		PASS
IEEE 802.11ac_80	155			5775	75.90		PASS
IEEE 802.11ax_20	149	SU		5745	30.00		PASS

Test Graphs

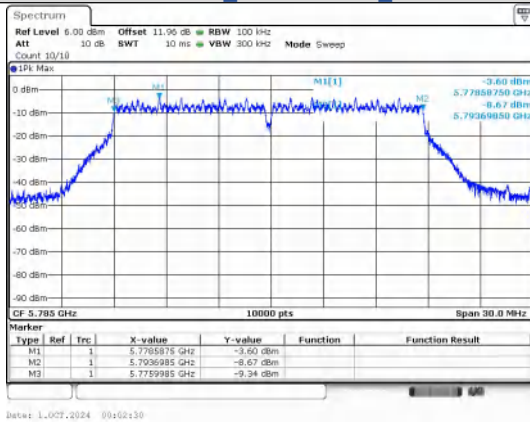




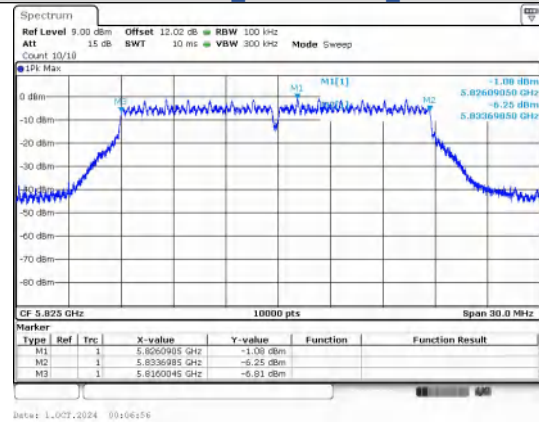
IEEE 802.11a Channel 165 20MHz



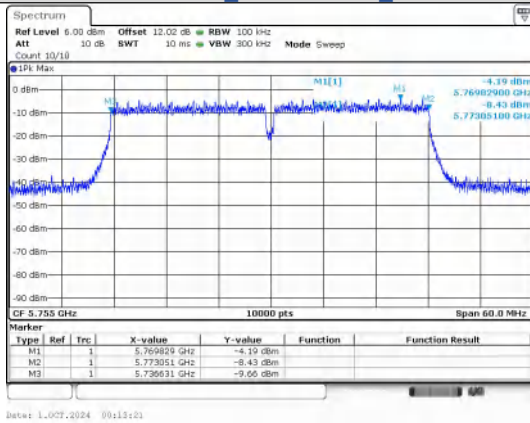
IEEE 802.11n Channel 149 20MHz



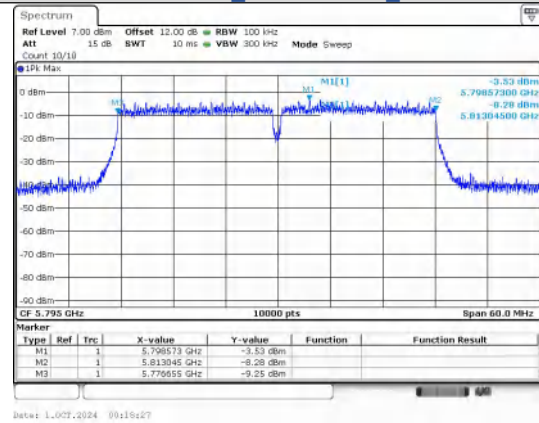
IEEE 802.11n Channel 157 20MHz



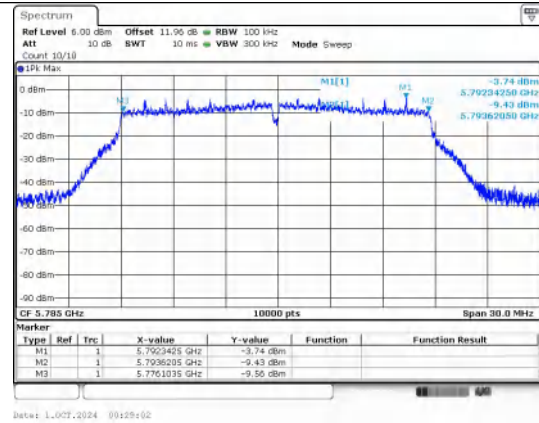
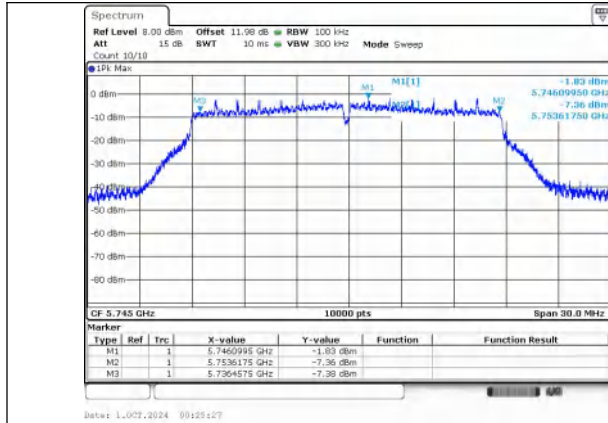
IEEE 802.11n Channel 165 20MHz



IEEE 802.11n Channel 151 40MHz

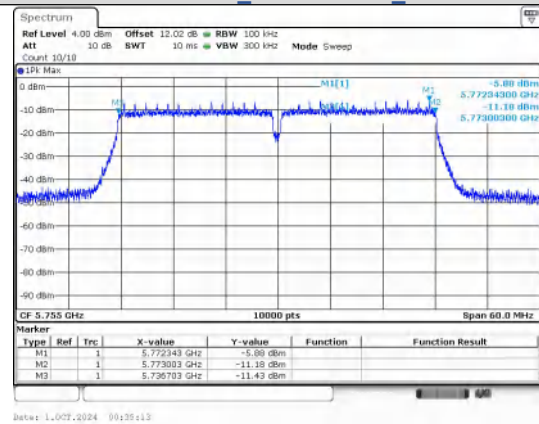
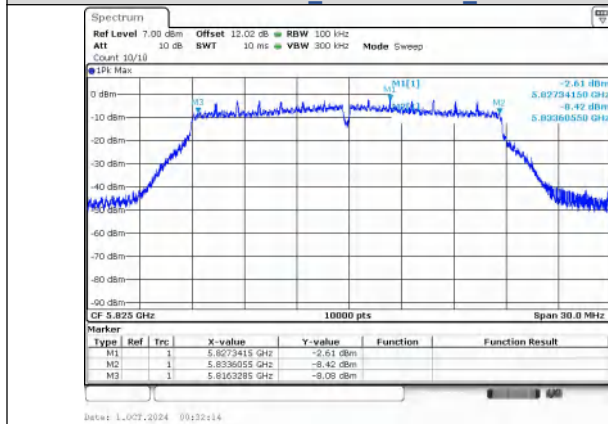


IEEE 802.11n Channel 159 40MHz



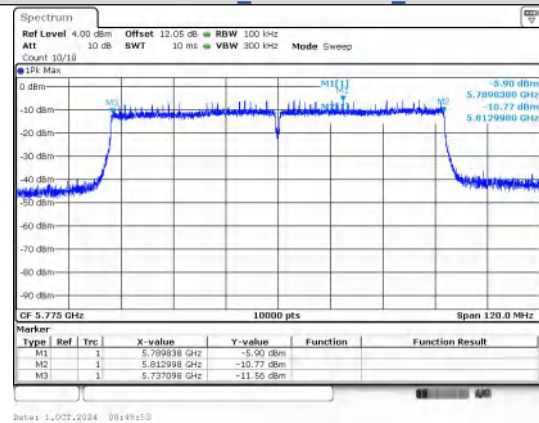
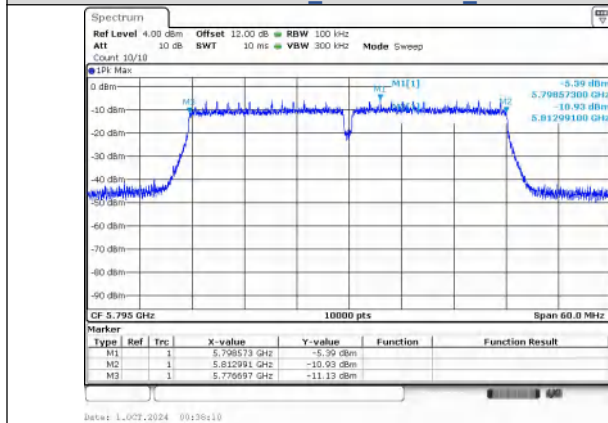
IEEE 802.11ac_Channel 149_20MHz

IEEE 802.11ac_Channel 157_20MHz



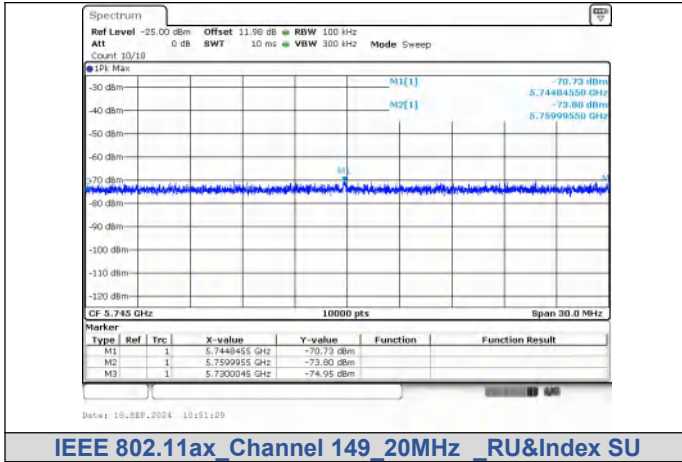
IEEE 802.11ac_Channel 165_20MHz

IEEE 802.11ac_Channel 151_40MHz



IEEE 802.11ac_Channel 159_40MHz

IEEE 802.11ac_Channel 155_80MHz

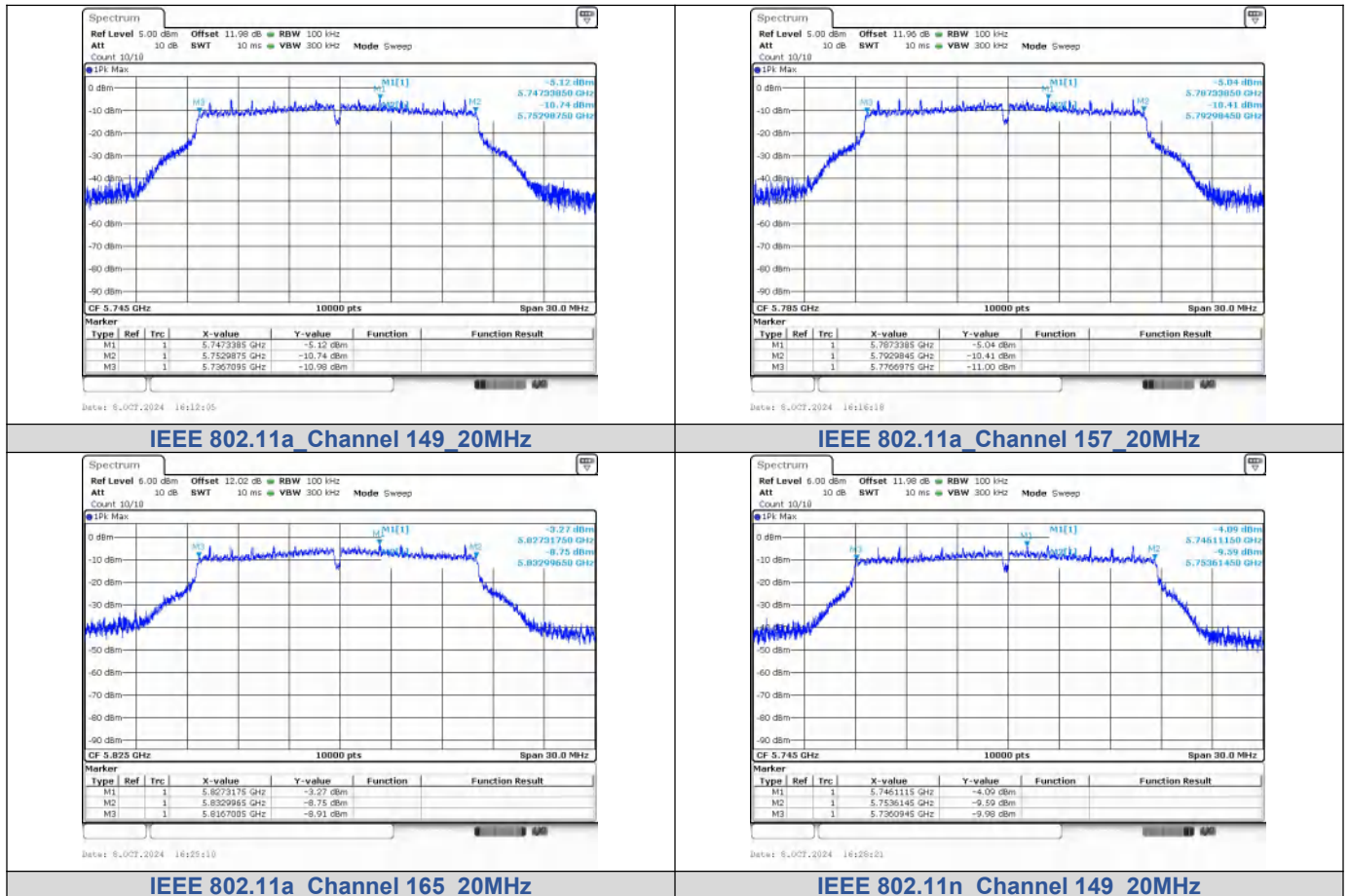


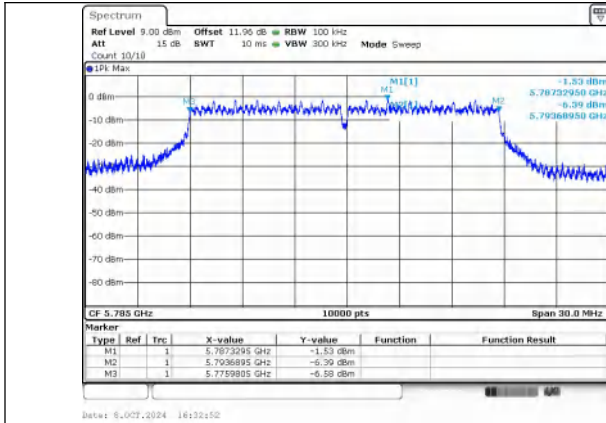
ANT2:

Test Result

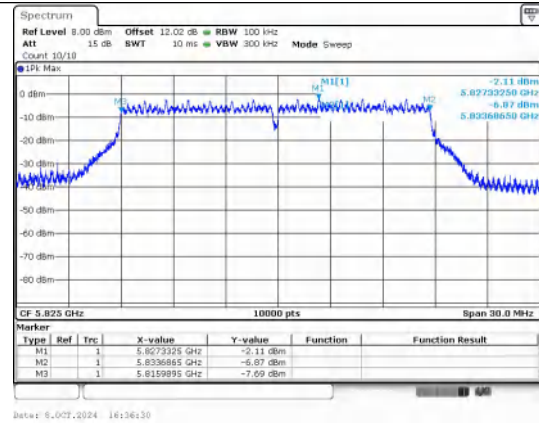
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	2	5745	16.28	≥0.5	PASS
	157		5785	16.28		PASS
	165		5825	16.30		PASS
IEEE 802.11n_20	149		5745	17.52		PASS
	157		5785	17.71		PASS
	165		5825	17.70		PASS
IEEE 802.11n_40	151		5755	36.30		PASS
	159		5795	36.41		PASS
IEEE 802.11ac_20	149		5745	17.51		PASS
	157		5785	17.54		PASS
	165		5825	17.15		PASS
IEEE 802.11ac_40	151		5755	36.31		PASS
	159		5795	36.27		PASS
IEEE 802.11ac_80	155		5775	75.58		PASS

Test Graphs

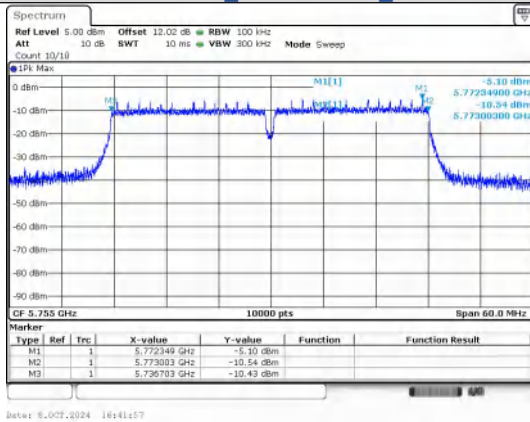




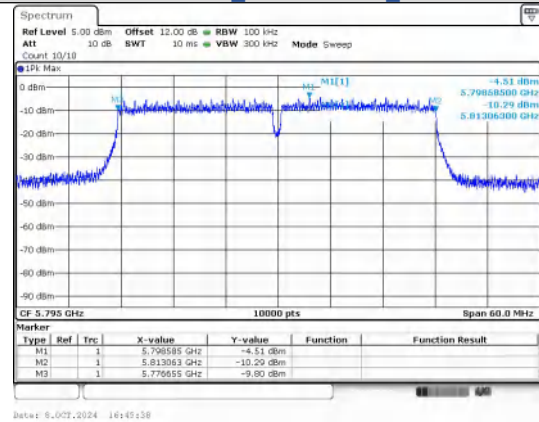
IEEE 802.11n Channel 157 20MHz



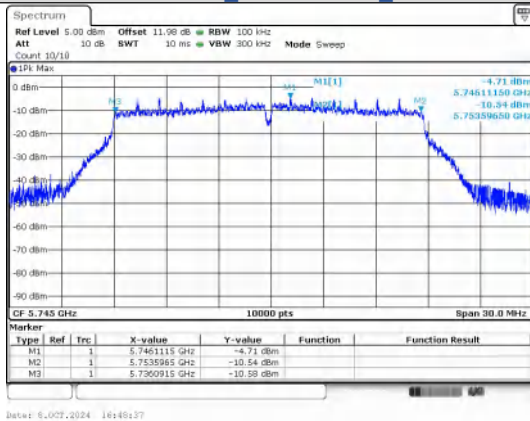
IEEE 802.11n Channel 165 20MHz



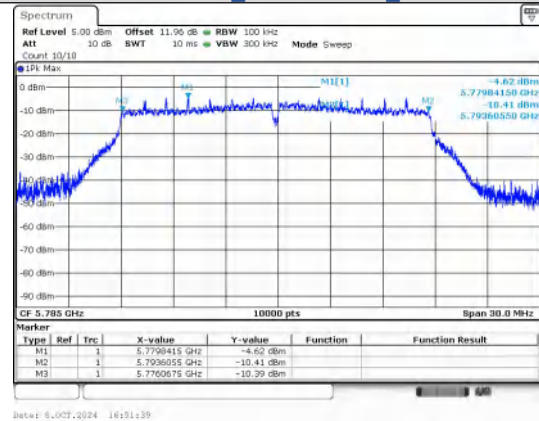
IEEE 802.11n Channel 157 40MHz



IEEE 802.11n Channel 165 40MHz



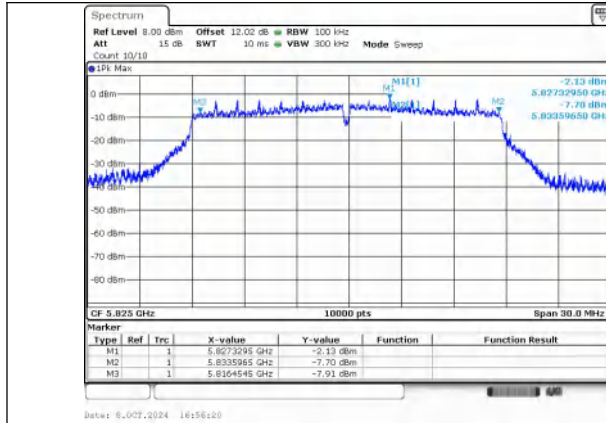
IEEE 802.11n Channel 151 40MHz



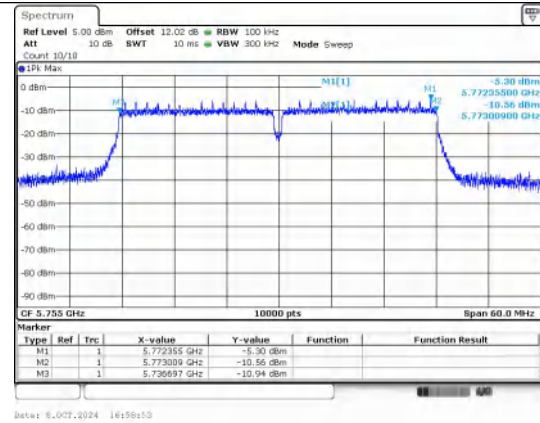
IEEE 802.11n Channel 159 40MHz

IEEE 802.11ac Channel 149 20MHz

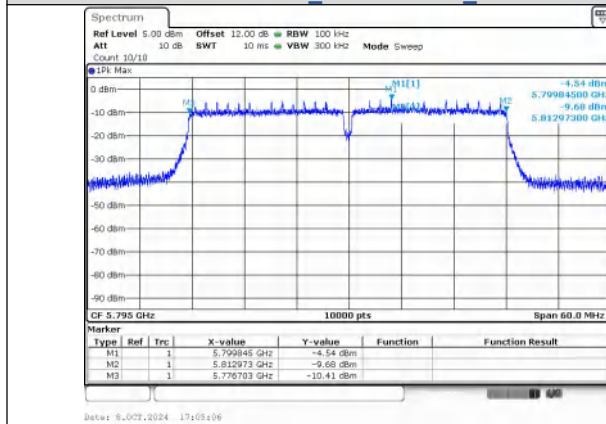
IEEE 802.11ac Channel 157 20MHz



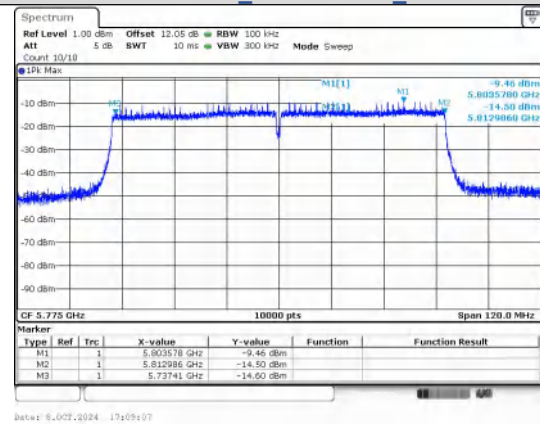
IEEE 802.11ac_Channel 165_20MHz



IEEE 802.11ac_Channel 151_40MHz



IEEE 802.11ac_Channel 159_40MHz



IEEE 802.11ac_Channel 155_80MHz

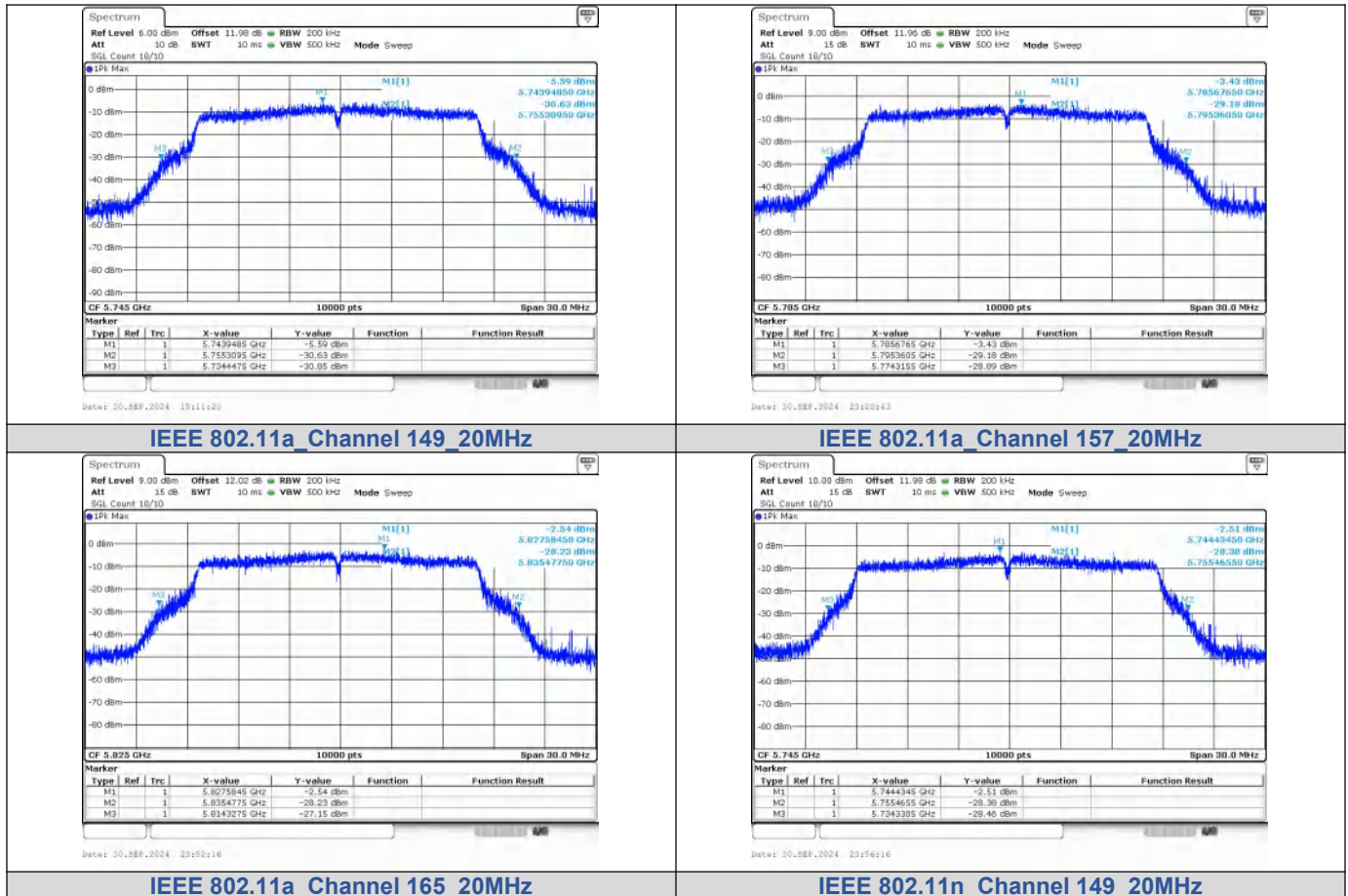
26dB Bandwidth

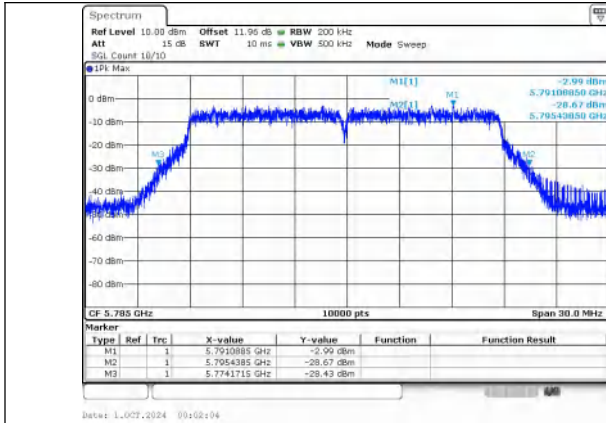
ANT1:

Test Result

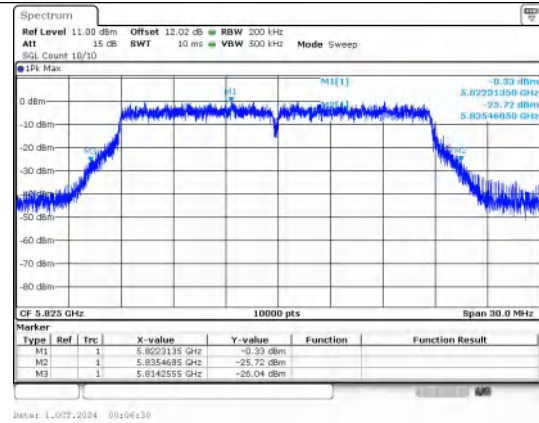
Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	1	5745	20.74	1.12
	157		5785	21.12	1.1
	165		5825	21.05	1.11
IEEE 802.11n_20	149		5745	20.99	1.13
	157		5785	28.77	1.04
	165		5825	21.13	1.13
IEEE 802.11n_40	151		5755	40.52	1.05
	159		5795	39.65	1.06
	149		5745	21.13	1.12
IEEE 802.11ac_20	157		5785	21.44	1.1
	165		5825	21.74	1.07
	151		5755	42.91	1.19
IEEE 802.11ac_40	159		5795	39.77	1.11
	155		5775	81.73	1.03

Test Graphs

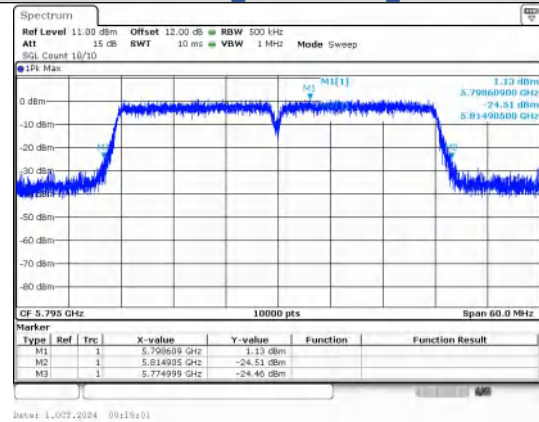
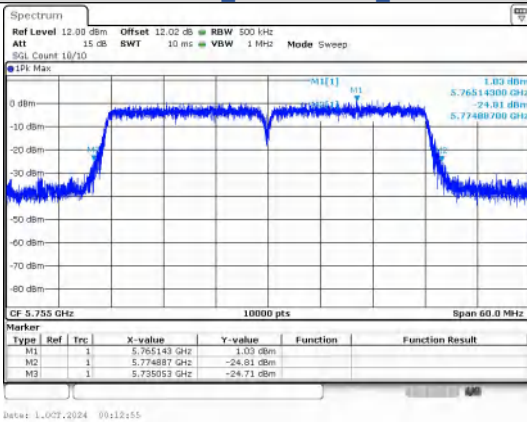




IEEE 802.11n Channel 157 20MHz

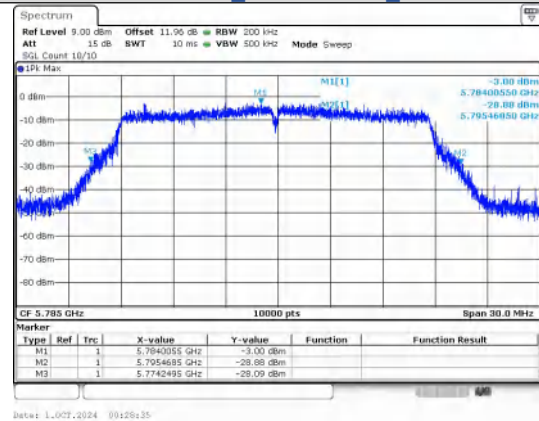
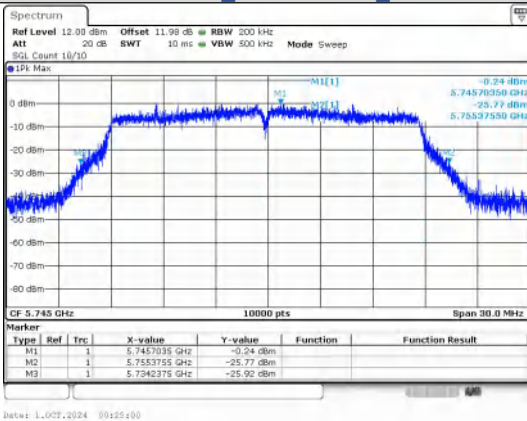


IEEE 802.11n Channel 165 20MHz



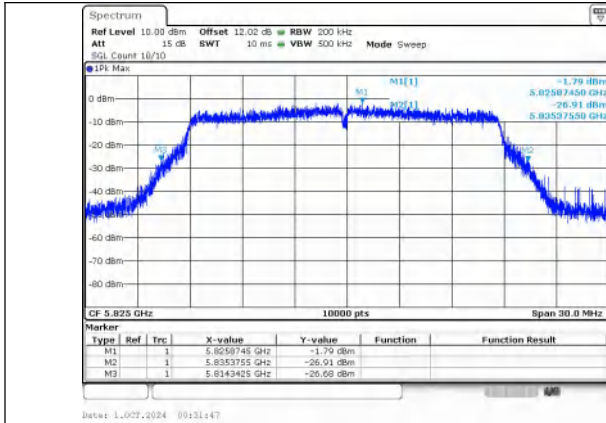
IEEE 802.11n Channel 151 40MHz

IEEE 802.11n Channel 159 40MHz

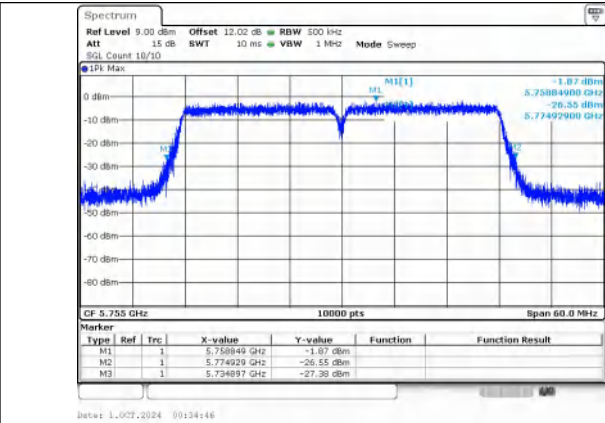


IEEE 802.11ac Channel 149 20MHz

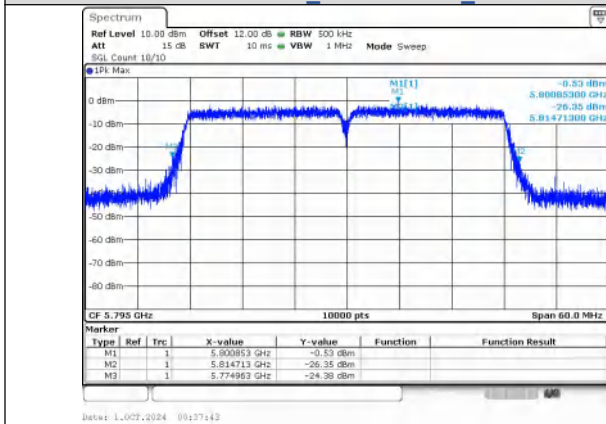
IEEE 802.11ac Channel 157 20MHz



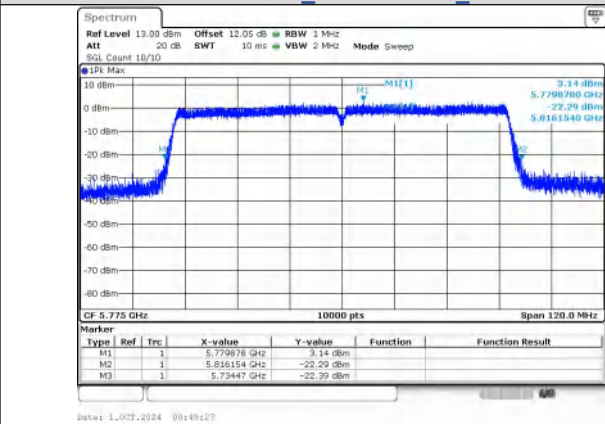
IEEE 802.11ac_Channel 165_20MHz



IEEE 802.11ac_Channel 151_40MHz



IEEE 802.11ac_Channel 159_40MHz



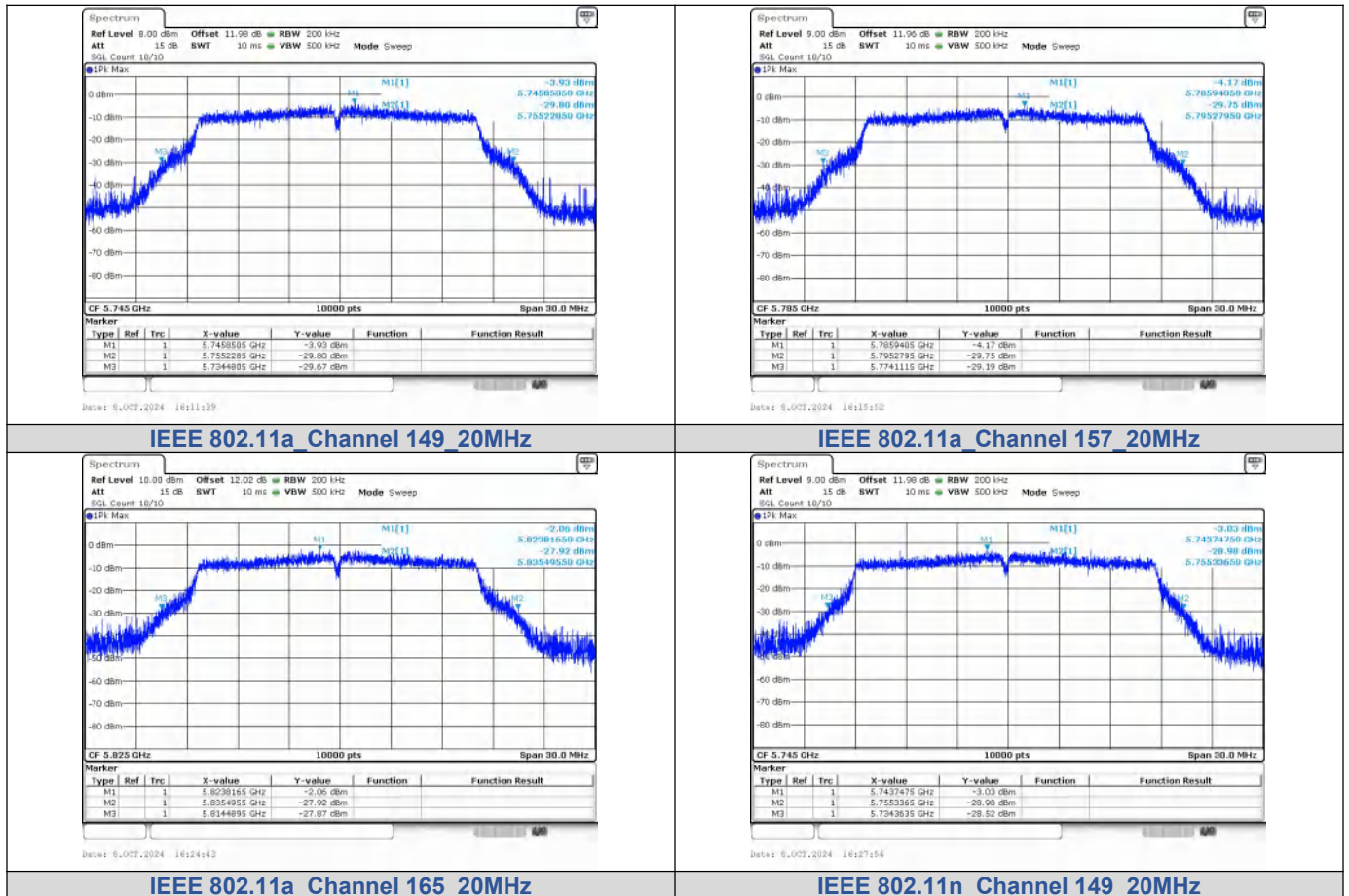
IEEE 802.11ac_Channel 155_80MHz

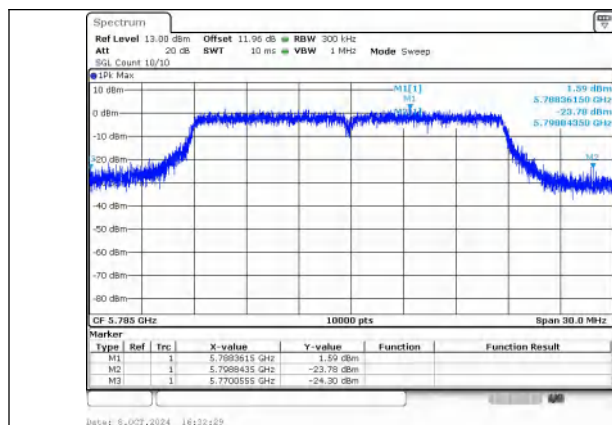
ANT2:

Test Result

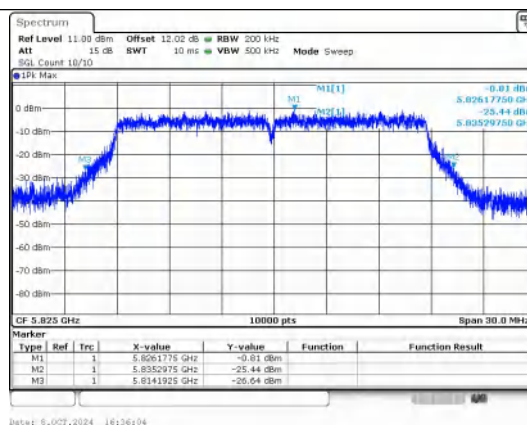
Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	2	5745	20.75	1.12
	157		5785	21.17	1.1
	165		5825	21.01	1.11
IEEE 802.11n_20	149		5745	20.98	1.13
	157		5785	28.78	1.04
	165		5825	21.11	1.13
IEEE 802.11n_40	151		5755	40.51	1.05
	159		5795	39.65	1.06
	149		5745	21.12	1.12
IEEE 802.11ac_20	157		5785	21.43	1.1
	165		5825	21.71	1.07
	151		5755	42.92	1.19
IEEE 802.11ac_40	159		5795	39.78	1.11
	155		5775	81.71	1.03

Test Graphs

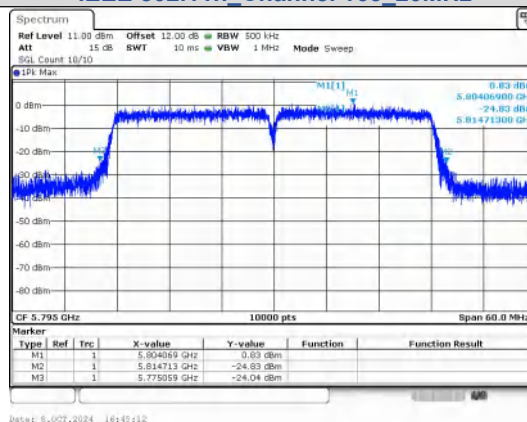
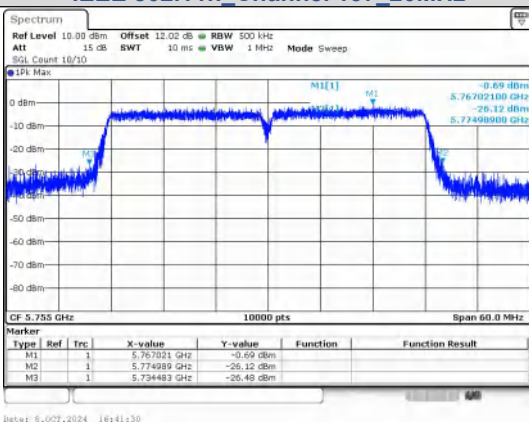




IEEE 802.11n Channel 157 20MHz

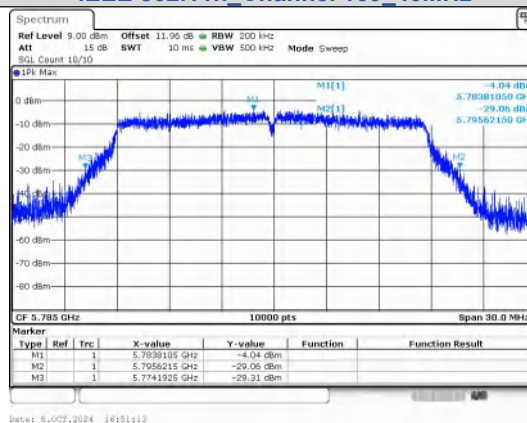
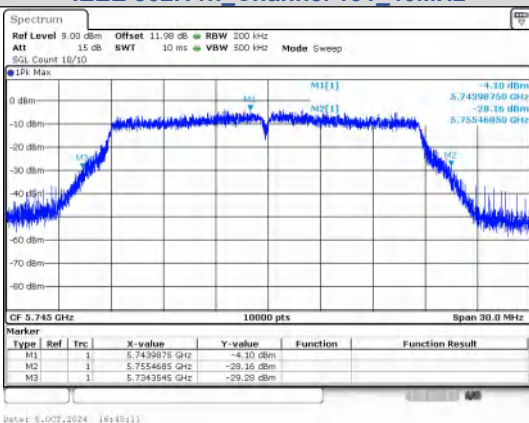


IEEE 802.11n Channel 165 20MHz



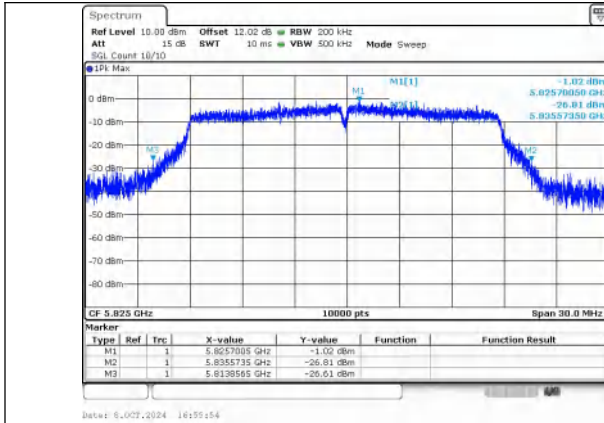
IEEE 802.11n Channel 151 40MHz

IEEE 802.11n Channel 159 40MHz

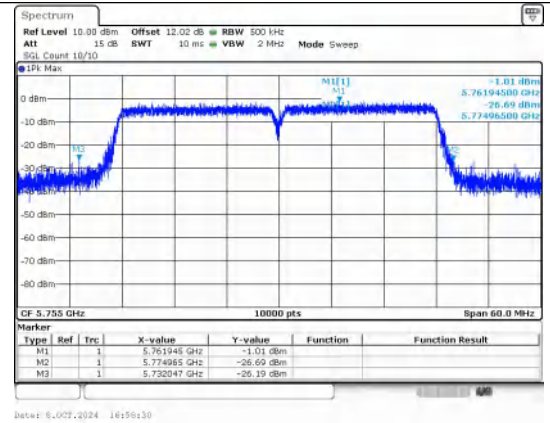


IEEE 802.11ac Channel 149 20MHz

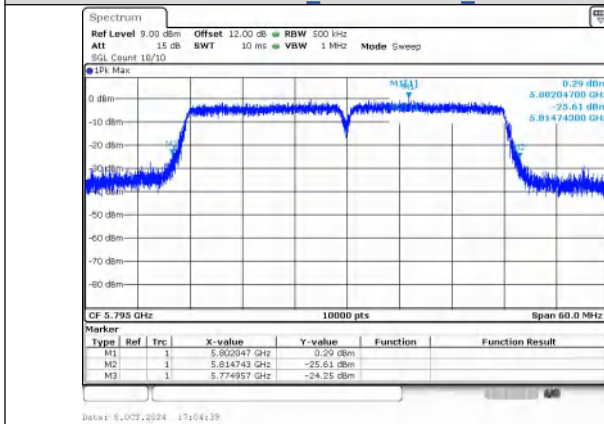
IEEE 802.11ac Channel 157 20MHz



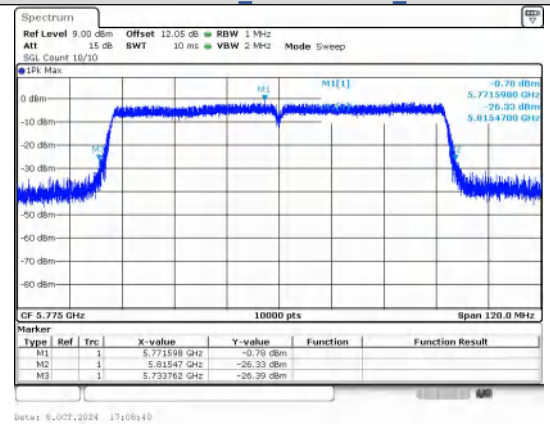
IEEE 802.11ac_Channel 165_20MHz



IEEE 802.11ac_Channel 151_40MHz



IEEE 802.11ac_Channel 159_40MHz



IEEE 802.11ac_Channel 155_80MHz

Conducted Out Of Band Emission

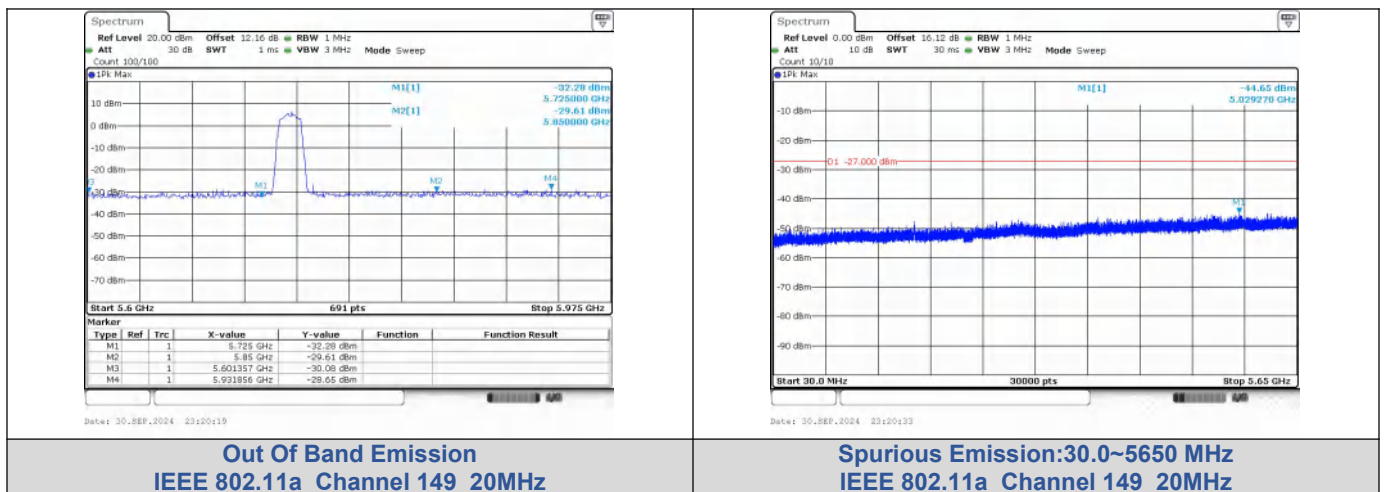
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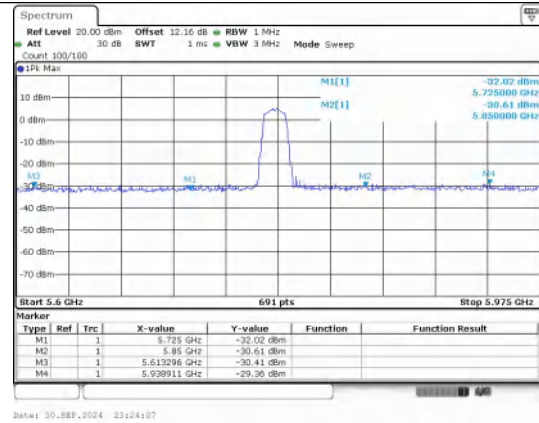
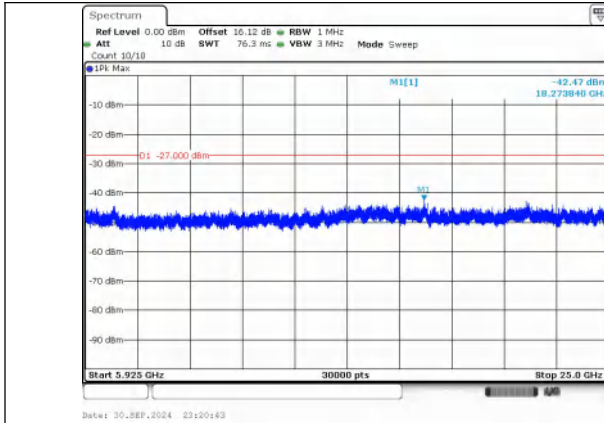
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11a	149	1	5029.27	-44.648	-27	-17.650	PASS
			5601.36	-30.082	-27	-3.082	PASS
			5725.00	-32.285	27	-59.280	PASS
			5850.00	-32.496	27	-59.500	PASS
			5931.86	-28.650	-27	-1.650	PASS
	18273.8		-42.467	-27	-15.470	PASS	
	157		5000.05	-44.616	-27	-17.620	PASS
			5613.30	-30.413	-27	-3.413	PASS
			5725.00	-32.477	27	-59.480	PASS
			5850.00	-30.608	27	-57.610	PASS
			5938.91	-29.360	-27	-2.360	PASS
	22090.1		-42.872	-27	-15.870	PASS	
	165		5404.87	-44.572	-27	-17.570	PASS
			5619.81	-29.927	-27	-2.927	PASS
			5725.00	-31.545	27	-58.540	PASS
5850.00			-32.017	27	-59.020	PASS	
5951.94			-29.784	-27	-2.784	PASS	
15315.3	-42.728		-27	-15.730	PASS		
IEEE 802.11n_20	149		5202.55	-44.827	-27	-17.830	PASS
			5632.83	-30.150	-27	-3.150	PASS
			5725.00	-30.969	27	-57.970	PASS
			5850.00	-31.810	27	-58.810	PASS
			5939.45	-29.221	-27	-2.221	PASS
	18291.6		-41.987	-27	-14.990	PASS	
	157		5379.40	-44.290	-27	-17.290	PASS
			5641.52	-29.859	-27	-2.859	PASS
			5725.00	-32.107	27	-59.110	PASS
			5850.00	-30.403	27	-57.400	PASS
			5972.56	-29.702	-27	-2.702	PASS
	20092.3		-43.245	-27	-16.250	PASS	
	165		5086.22	-45.046	-27	-18.050	PASS
			5640.43	-29.303	-27	-2.303	PASS
			5725.00	-31.647	27	-58.650	PASS
5850.00			-32.020	27	-59.020	PASS	
5939.45			-29.776	-27	-2.776	PASS	
16791.7	-42.487		-27	-15.490	PASS		
IEEE 802.11n_40	151		5635.55	-29.930	-27	-2.930	PASS
			5641.48	-44.589	-27	-17.590	PASS
			5725.00	-27.289	27	-54.290	PASS
			5850.00	-31.476	27	-58.480	PASS
			5932.94	-28.883	-27	-1.883	PASS
	17217.7		-42.870	-27	-15.870	PASS	
	159		5412.74	-44.624	-27	-17.620	PASS
			5627.41	-30.067	-27	-3.067	PASS
			5725.00	-32.301	27	-59.300	PASS
			5850.00	-31.887	27	-58.890	PASS
5936.74			-28.743	-27	-1.743	PASS	
22603.2	-43.374		-27	-16.370	PASS		
IEEE	149		5523.46	-44.093	-27	-17.090	PASS

802.11ac_20	157	5600.27	-30.391	-27	-3.391	PASS
		5725.00	-31.386	27	-58.390	PASS
		5850.00	-30.966	27	-57.970	PASS
		5932.94	-29.366	-27	-2.366	PASS
		16244.9	-43.313	-27	-16.310	PASS
		5431.29	-44.802	-27	-17.800	PASS
		5637.17	-29.989	-27	-2.989	PASS
		5725.00	-30.910	27	-57.910	PASS
		5850.00	-31.401	27	-58.400	PASS
		5932.94	-30.150	-27	-3.150	PASS
		16828.0	-43.392	-27	-16.390	PASS
		1938.83	-38.965	-27	-11.960	PASS
		5646.40	-29.135	-27	-2.135	PASS
		5725.00	-31.108	27	-58.110	PASS
		5850.00	-30.767	27	-57.770	PASS
IEEE 802.11ac_40	151	5936.20	-29.923	-27	-2.923	PASS
		16579.3	-42.514	-27	-15.510	PASS
		4737.41	-44.981	-27	-17.980	PASS
		5649.11	-30.467	-27	-3.467	PASS
		5725.00	-29.599	27	-56.600	PASS
		5850.00	-31.571	27	-58.570	PASS
		5961.16	-29.230	-27	-2.230	PASS
		16592.7	-43.375	-27	-16.380	PASS
		5200.87	-44.572	-27	-17.570	PASS
		5605.16	-29.899	-27	-2.899	PASS
		5725.00	-31.225	27	-58.220	PASS
		5850.00	-31.913	27	-58.910	PASS
		5937.83	-29.852	-27	-2.851	PASS
		16515.8	-43.037	-27	-16.040	PASS
IEEE 802.11ac_80	155	5598.58	-42.038	-27	-15.040	PASS
		5649.11	-30.175	-27	-3.175	PASS
		5725.00	-27.951	27	-54.950	PASS
		5850.00	-29.950	27	-56.950	PASS
		5948.84	-41.580	-27	-14.580	PASS
		5960.08	-29.223	-27	-2.223	PASS

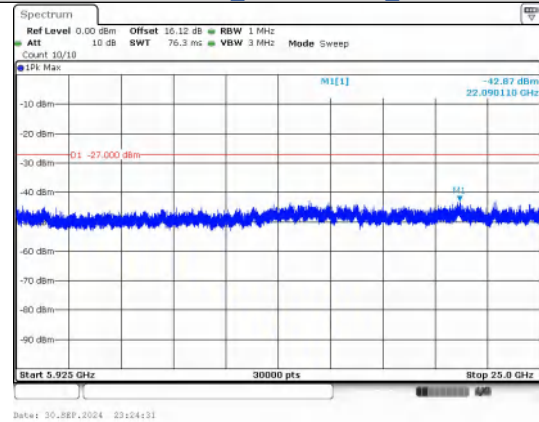
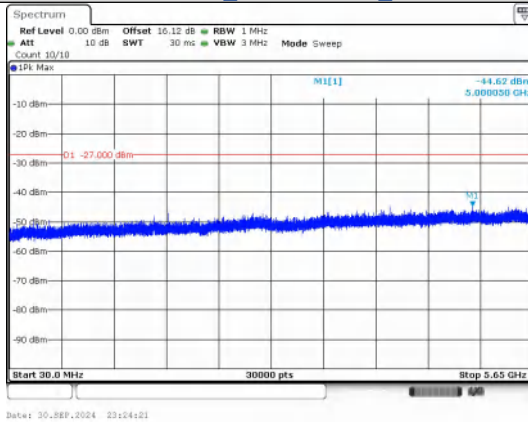
Test Graphs





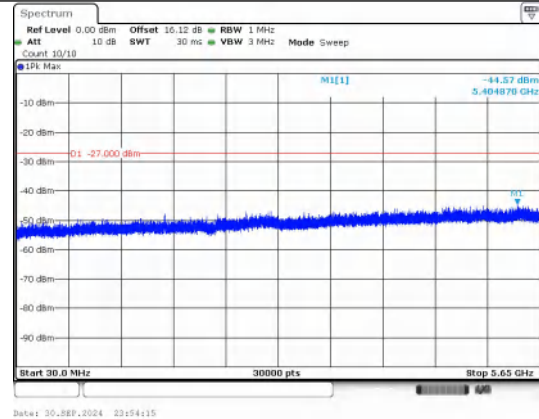
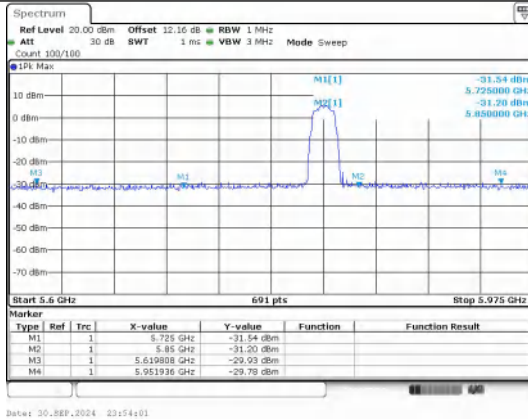
**Spurious Emission:5925~25000.0 MHz
IEEE 802.11a_Channel 149_20MHz**

**Out Of Band Emission
IEEE 802.11a_Channel 157_20MHz**



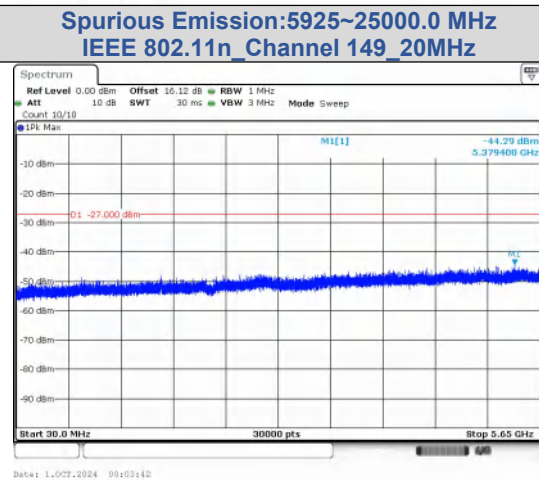
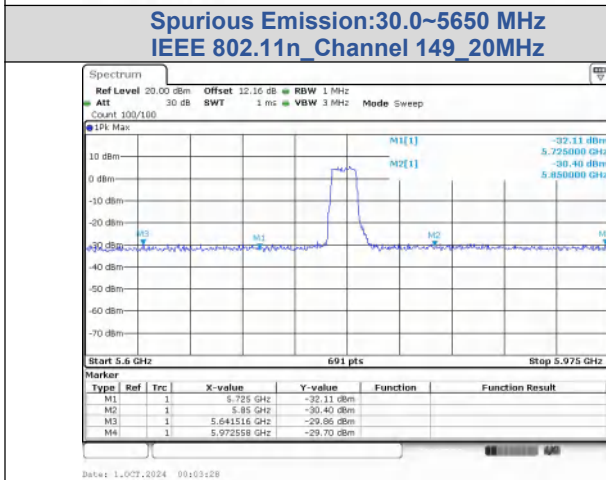
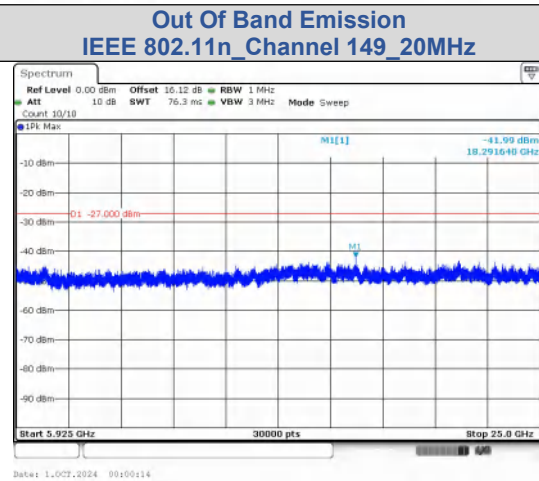
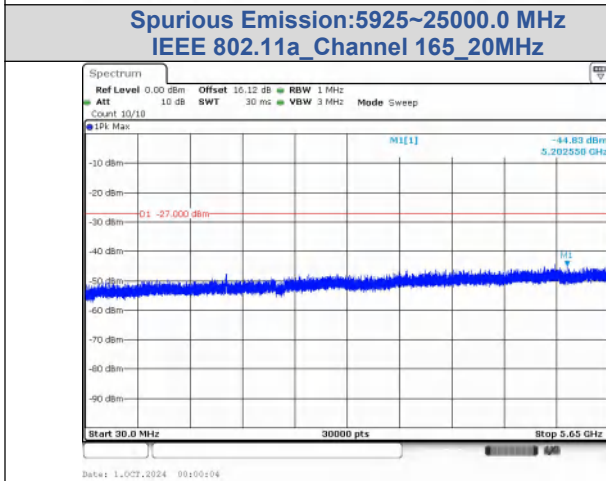
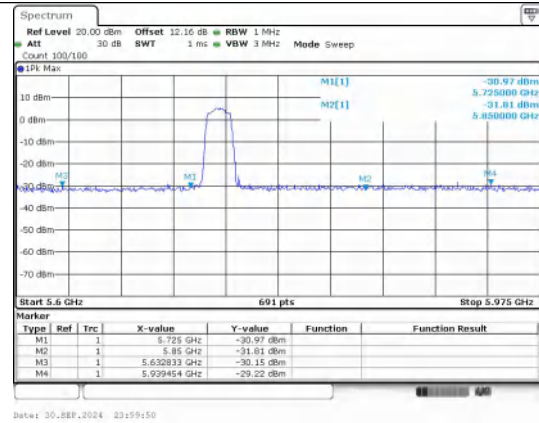
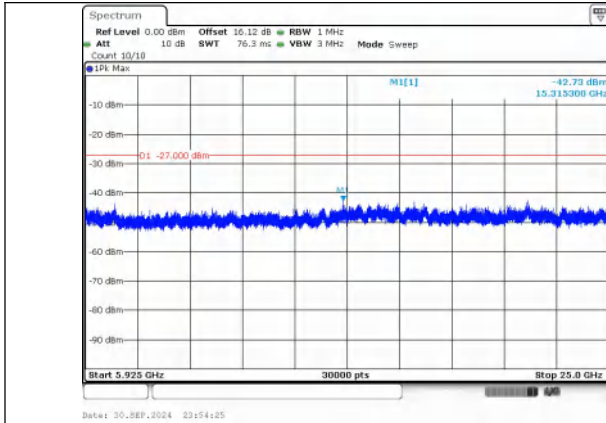
**Spurious Emission:30.0~5650 MHz
IEEE 802.11a_Channel 157_20MHz**

**Spurious Emission:5925~25000.0 MHz
IEEE 802.11a_Channel 157_20MHz**



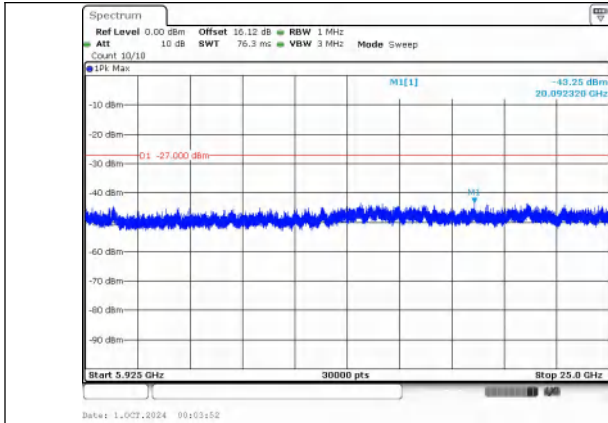
**Out Of Band Emission
IEEE 802.11a_Channel 165_20MHz**

**Spurious Emission:30.0~5650 MHz
IEEE 802.11a_Channel 165_20MHz**

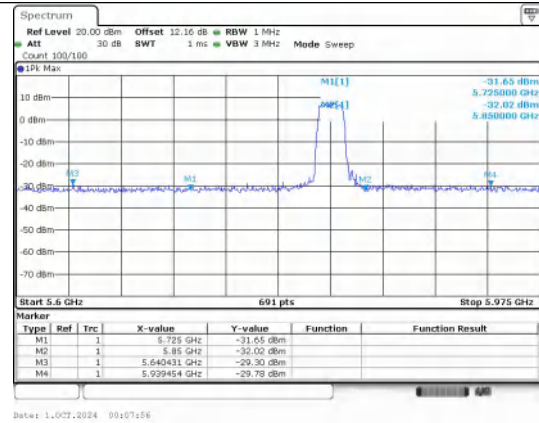


Out Of Band Emission
IEEE 802.11n Channel 157 20MHz

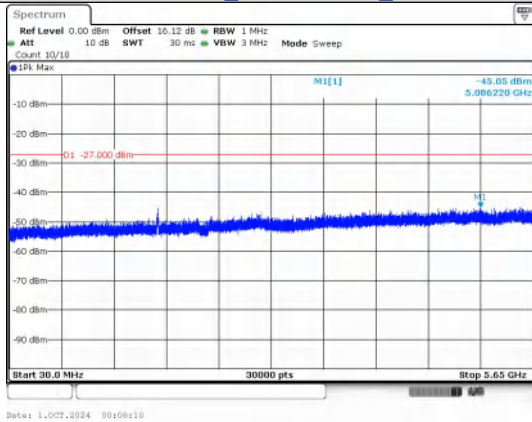
Spurious Emission: 30.0~5650 MHz
IEEE 802.11n Channel 157 20MHz



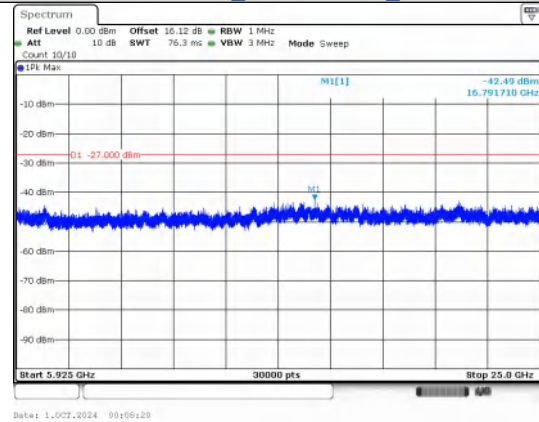
**Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 157_20MHz**



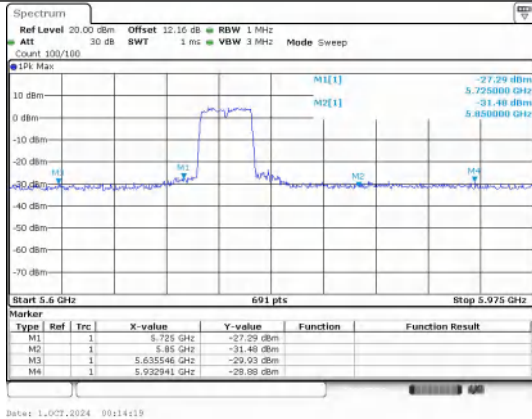
**Out Of Band Emission
IEEE 802.11n_Channel 165_20MHz**



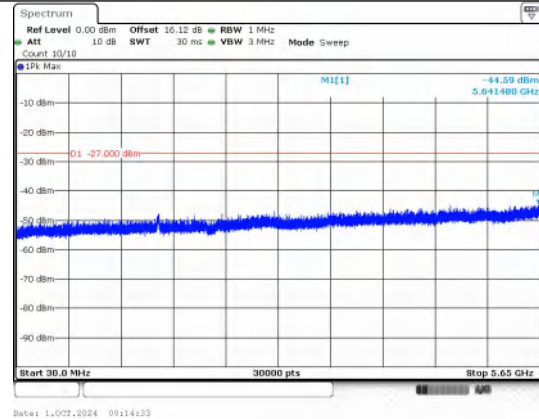
**Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 165_20MHz**



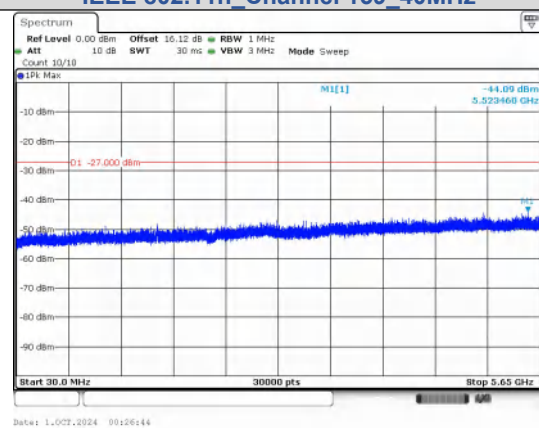
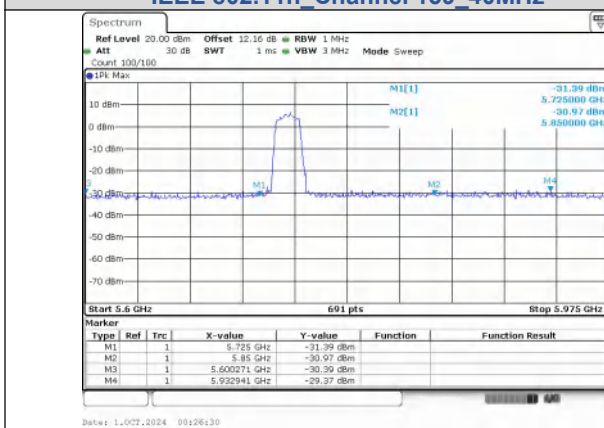
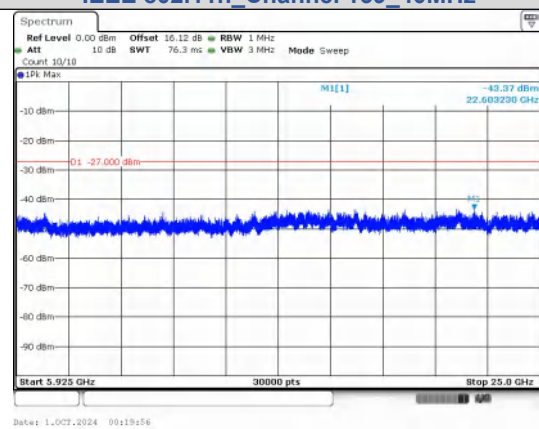
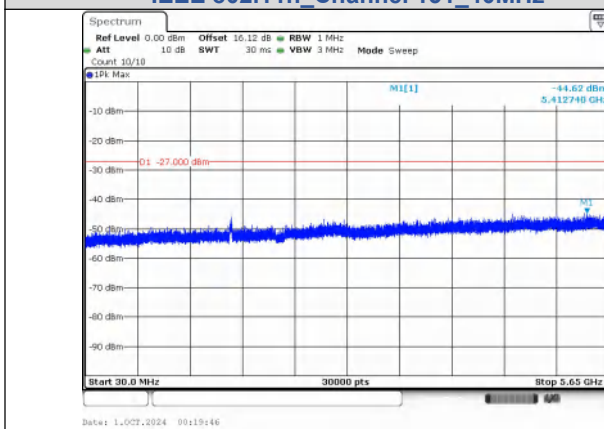
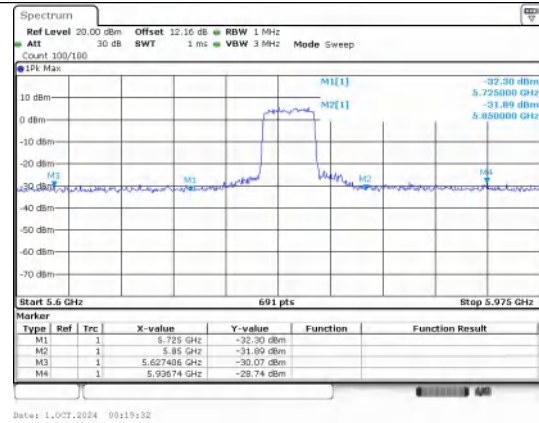
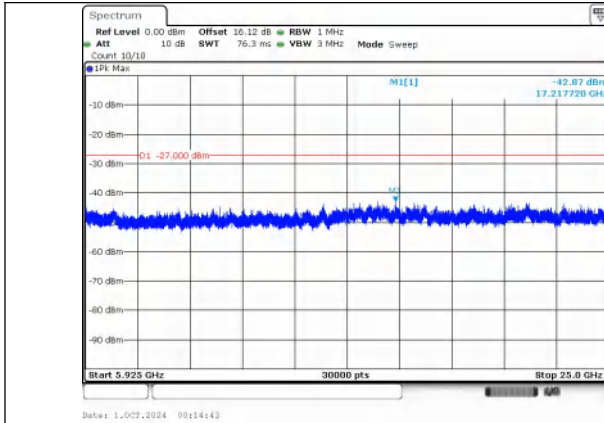
**Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 165_20MHz**

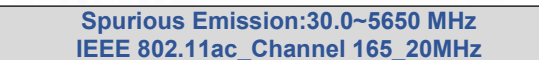
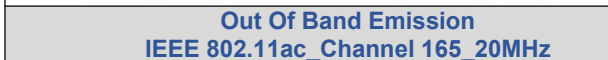
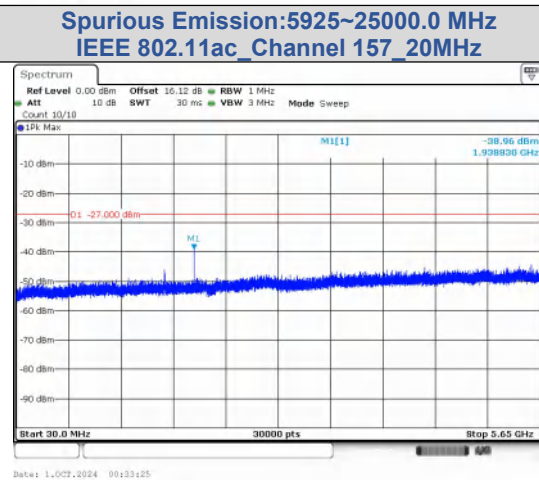
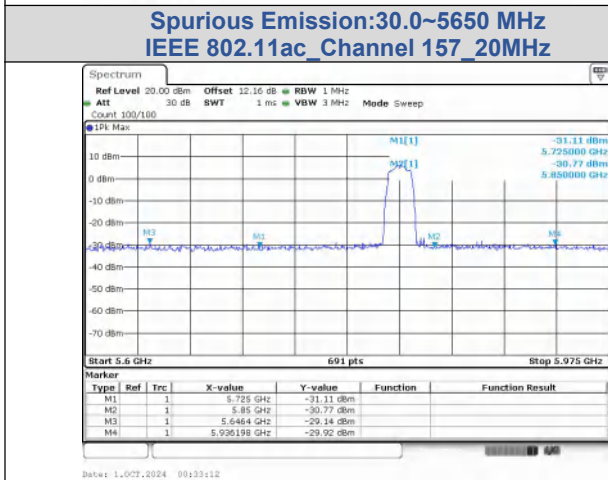
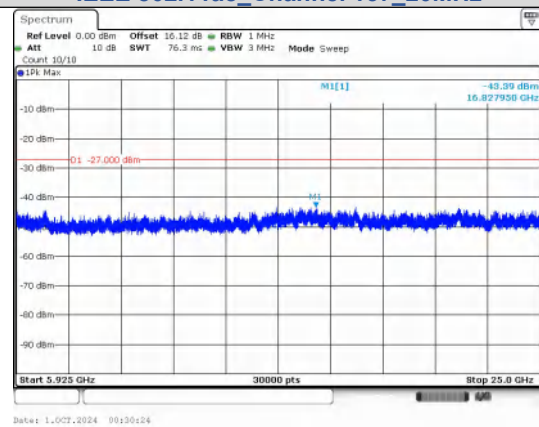
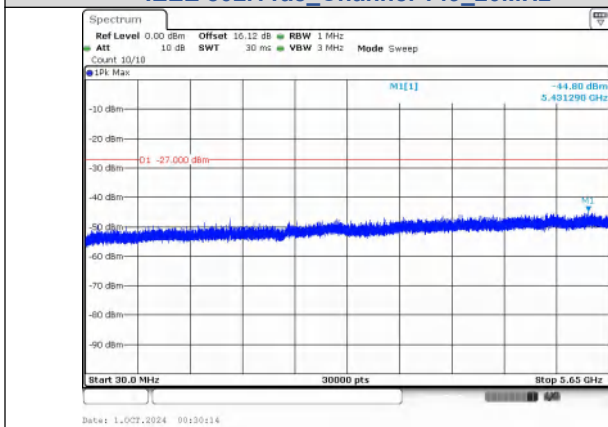
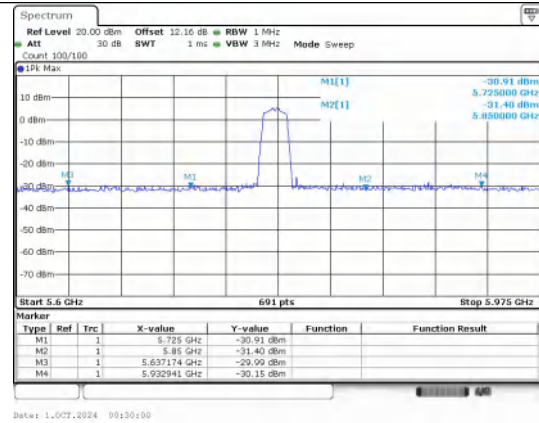
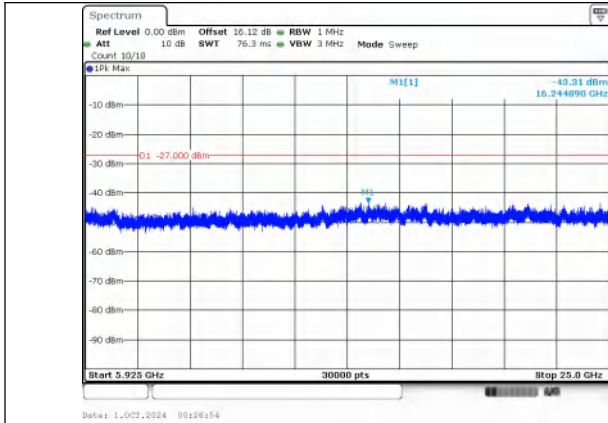


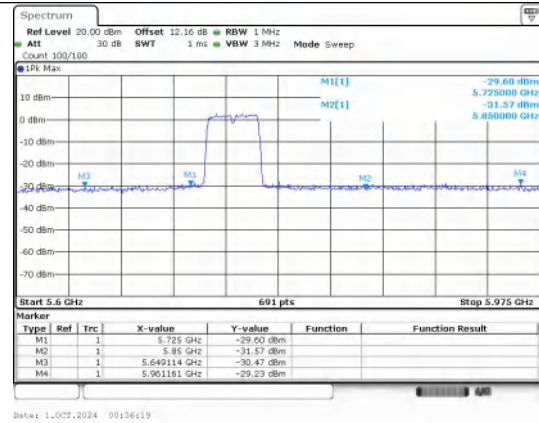
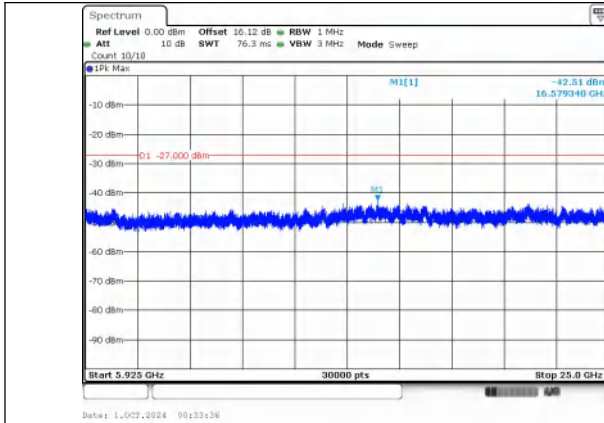
**Out Of Band Emission
IEEE 802.11n_Channel 151_40MHz**



**Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 151_40MHz**

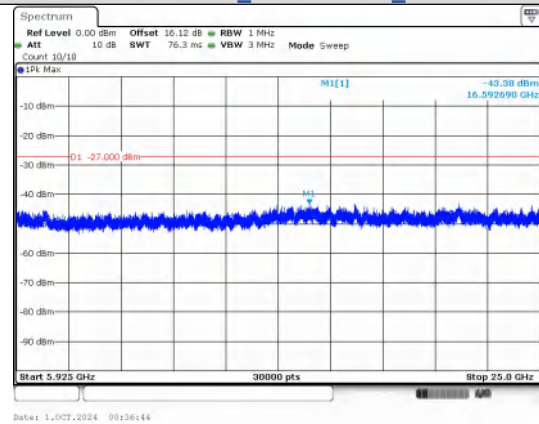
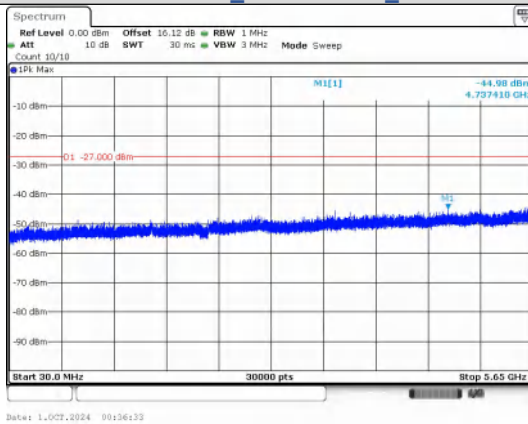






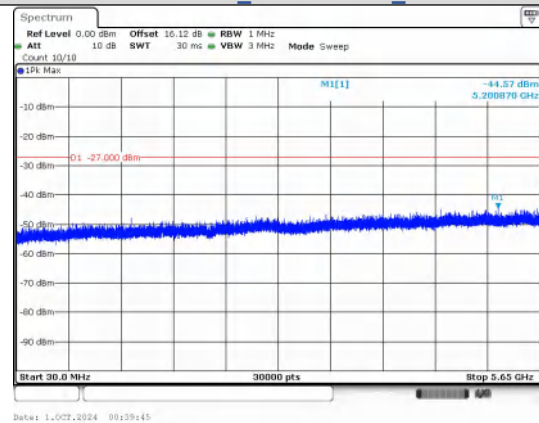
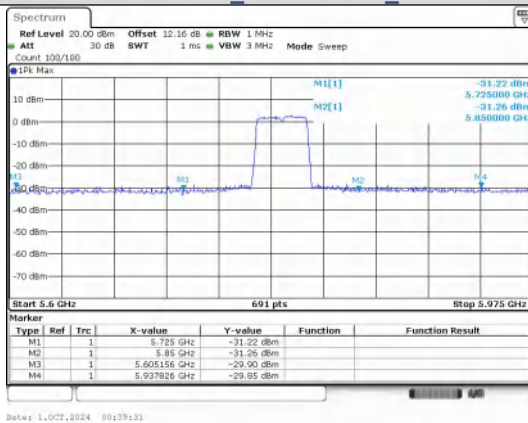
Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 165_20MHz

Out Of Band Emission
IEEE 802.11ac_Channel 151_40MHz



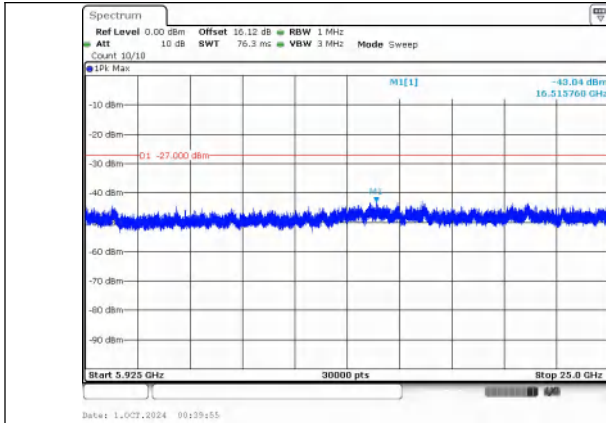
Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 151_40MHz

Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 151_40MHz

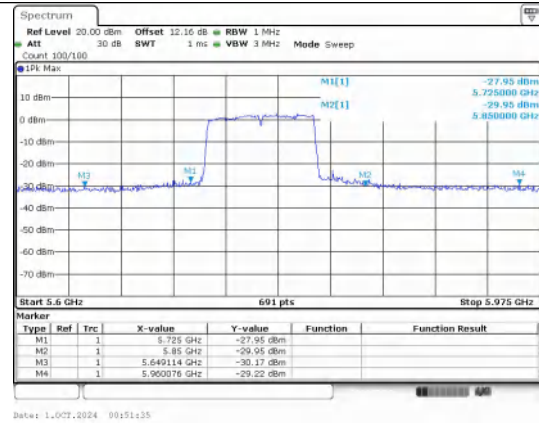


Out Of Band Emission
IEEE 802.11ac_Channel 159_40MHz

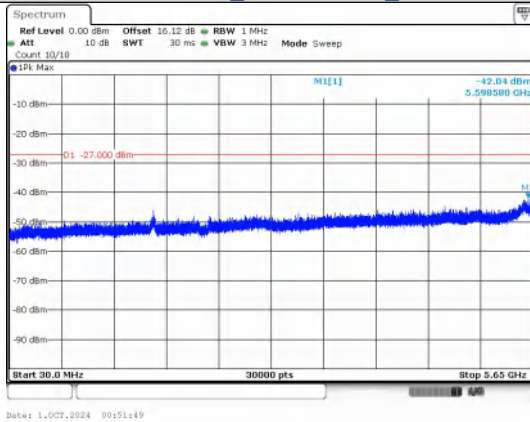
Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 159_40MHz



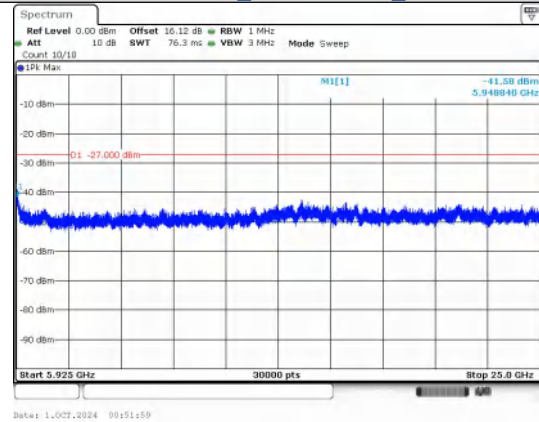
Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 159_40MHz



Out Of Band Emission
IEEE 802.11ac_Channel 155_80MHz



Spurious Emission:30.0~5650 MHz
IEEE 802.11ac_Channel 155_80MHz



Spurious Emission:5925~25000.0 MHz
IEEE 802.11ac_Channel 155_80MHz

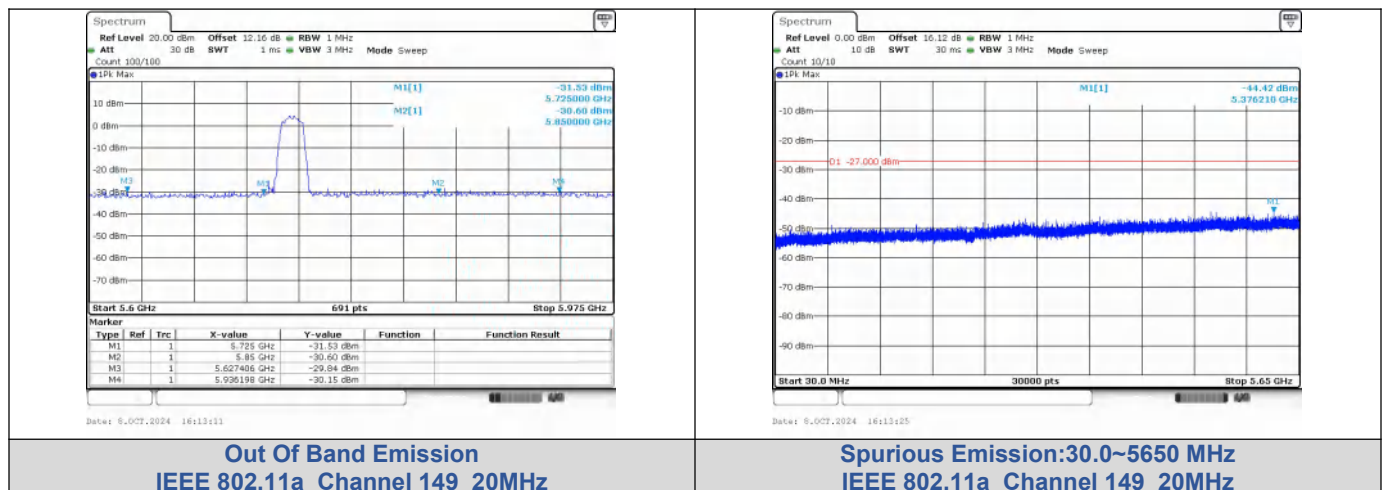
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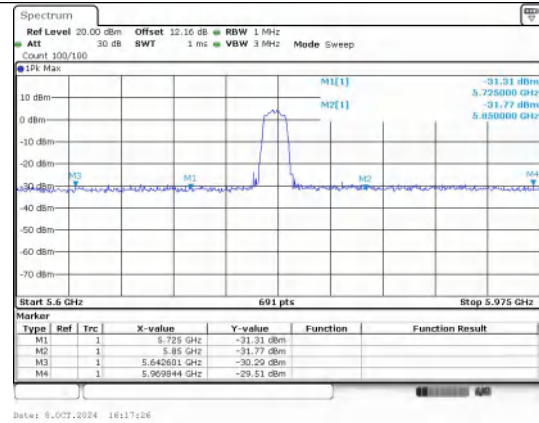
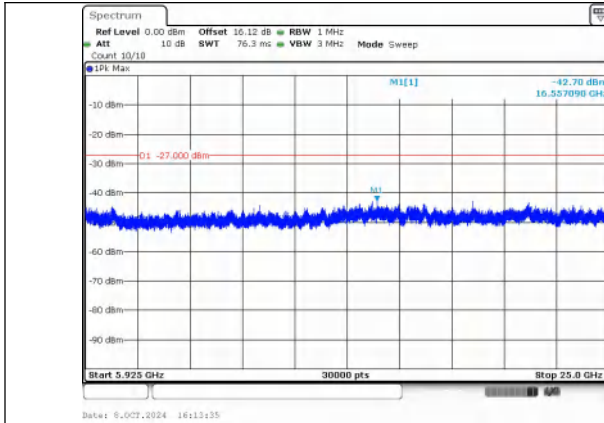
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	
IEEE 802.11a	149	2	5376.21	-44.421	-27	-17.420	PASS	
			5627.41	-29.838	-27	-2.838	PASS	
			5725.00	-31.526	27	-58.530	PASS	
			5850.00	-30.600	27	-57.600	PASS	
			5936.20	-30.152	-27	-3.152	PASS	
	157		16557.1	-42.705	-27	-15.700	PASS	
			1958.88	-39.643	-27	-12.640	PASS	
			5642.60	-30.295	-27	-3.295	PASS	
			5725.00	-31.315	27	-58.310	PASS	
			5850.00	-31.772	27	-58.770	PASS	
	165		5969.84	-29.506	-27	-2.506	PASS	
			22064.7	-42.860	-27	-15.860	PASS	
			2473.48	-44.543	-27	-17.540	PASS	
			5635.55	-29.691	-27	-2.691	PASS	
			5725.00	-31.951	27	-58.950	PASS	
IEEE 802.11n_20	149		5850.00	-30.842	27	-57.840	PASS	
			5927.51	-29.367	-27	-2.367	PASS	
			16518.9	-43.099	-27	-16.100	PASS	
			4784.99	-44.958	-27	-17.960	PASS	
			5645.31	-30.103	-27	-3.103	PASS	
	157		5725.00	-31.872	27	-58.870	PASS	
			5850.00	-29.776	27	-56.780	PASS	
			5931.31	-29.420	-27	-2.420	PASS	
			22018.3	-43.509	-27	-16.510	PASS	
			2471.05	-43.176	-27	-16.180	PASS	
	165		5642.06	-29.794	-27	-2.794	PASS	
			5725.00	-31.112	27	-58.110	PASS	
			5850.00	-30.930	27	-57.930	PASS	
			5949.76	-28.961	-27	-1.961	PASS	
			16563.5	-43.064	-27	-16.060	PASS	
IEEE 802.11n_40	151		2473.67	-40.246	-27	-13.250	PASS	
			5604.61	-30.107	-27	-3.107	PASS	
			5725.00	-31.451	27	-58.450	PASS	
			5850.00	-30.591	27	-57.590	PASS	
			5950.85	-29.598	-27	-2.598	PASS	
	159		22712.0	-43.131	-27	-16.130	PASS	
			2470.49	-37.559	-27	-10.560	PASS	
			5640.43	-30.416	-27	-3.416	PASS	
			5725.00	-22.172	27	-49.170	PASS	
			5850.00	-30.410	27	-57.410	PASS	
	IEEE 802.11ac_20		149	5926.97	-28.644	-27	-1.644	PASS
				15302.6	-43.327	-27	-16.330	PASS
				2414.10	-38.974	-27	-11.970	PASS
				5626.32	-30.164	-27	-3.164	PASS
				5725.00	-31.585	27	-58.590	PASS
				5850.00	-30.507	27	-57.510	PASS
				5927.51	-29.639	-27	-2.639	PASS
				20042.1	-43.065	-27	-16.060	PASS
				1941.08	-35.353	-27	-8.350	PASS
			5608.95	-29.425	-27	-2.425	PASS	
			5725.00	-31.224	27	-58.220	PASS	

	157	5850.00	-30.052	27	-57.050	PASS
		5963.33	-29.583	-27	-2.583	PASS
		16786.6	-43.310	-27	-16.310	PASS
		1959.07	-31.826	-27	-4.830	PASS
		5602.44	-29.441	-27	-2.441	PASS
		5725.00	-31.223	27	-58.220	PASS
		5850.00	-31.362	27	-58.360	PASS
		5936.74	-29.128	-27	-2.128	PASS
	165	17714.3	-43.373	-27	-16.370	PASS
		2413.16	-38.300	-27	-11.300	PASS
		5613.30	-29.612	-27	-2.612	PASS
		5725.00	-32.036	27	-59.040	PASS
		5850.00	-29.249	27	-56.250	PASS
		5925.34	-29.780	-27	-2.780	PASS
		23373.2	-43.151	-27	-16.150	PASS
		2413.54	-42.601	-27	-15.600	PASS
IEEE 802.11ac_40	151	5618.72	-30.077	-27	-3.077	PASS
		5725.00	-23.708	27	-50.710	PASS
		5850.00	-30.736	27	-57.740	PASS
		5973.64	-28.720	-27	-1.720	PASS
		15906.0	-43.035	-27	-16.040	PASS
		1941.08	-31.303	-27	-4.300	PASS
		5633.38	-30.474	-27	-3.474	PASS
		5725.00	-31.110	27	-58.110	PASS
	159	5850.00	-31.841	27	-58.840	PASS
		5951.39	-29.987	-27	-2.987	PASS
		18248.4	-43.159	-27	-16.160	PASS
		2413.54	-40.026	-27	-13.030	PASS
IEEE 802.11ac_80	155	5632.29	-30.288	-27	-3.288	PASS
		5725.00	-28.646	27	-55.650	PASS
		5850.00	-31.040	27	-58.040	PASS
		5932.31	-41.844	-27	-14.840	PASS
		5963.33	-29.674	-27	-2.674	PASS

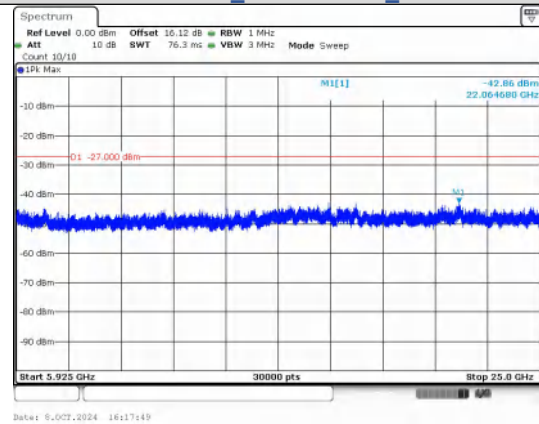
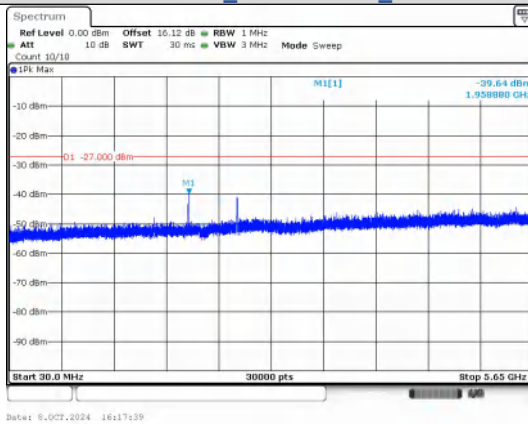
Test Graphs





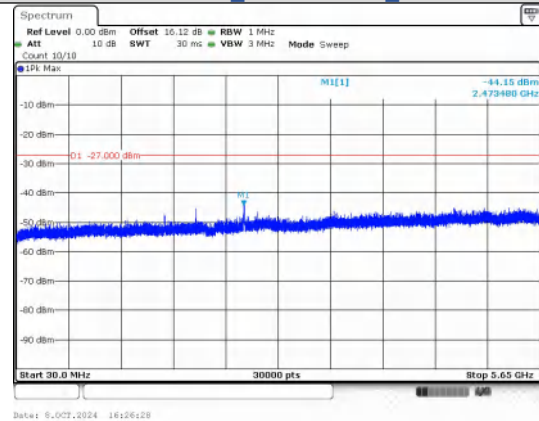
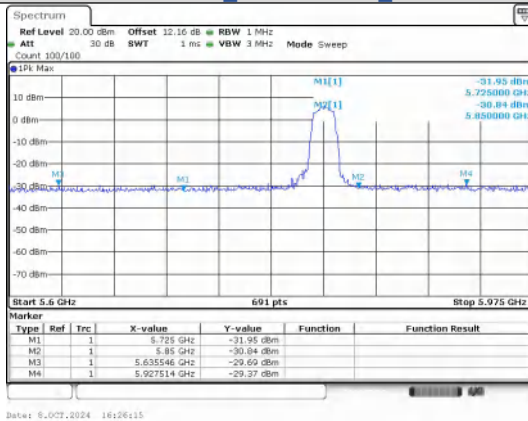
Spurious Emission:5925~25000.0 MHz
IEEE 802.11a Channel 149 20MHz

Out Of Band Emission
IEEE 802.11a Channel 157 20MHz



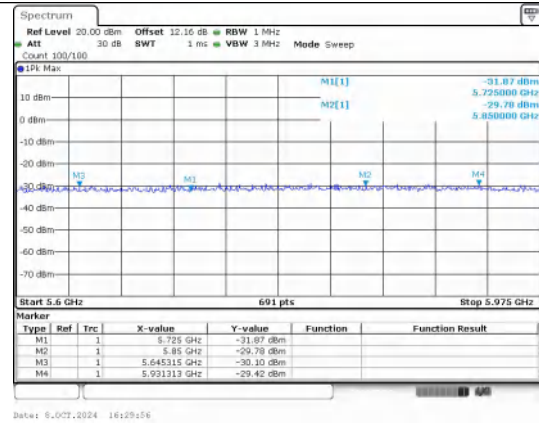
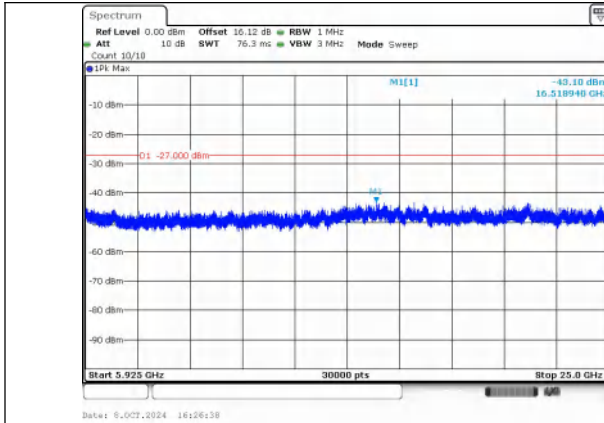
Spurious Emission:30.0~5650 MHz
IEEE 802.11a Channel 157 20MHz

Spurious Emission:5925~25000.0 MHz
IEEE 802.11a Channel 157 20MHz



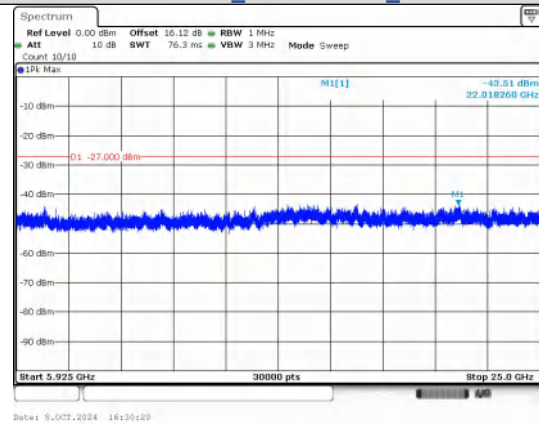
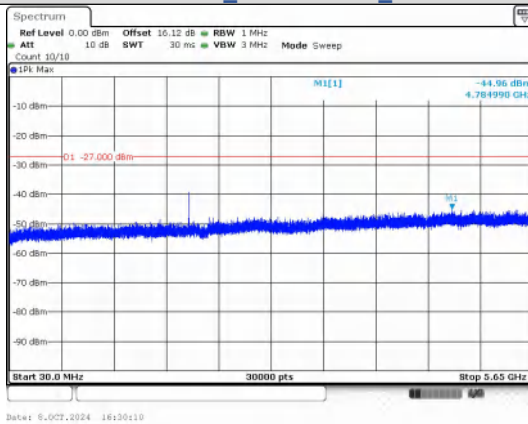
Out Of Band Emission
IEEE 802.11a Channel 165 20MHz

Spurious Emission:30.0~5650 MHz
IEEE 802.11a Channel 165 20MHz



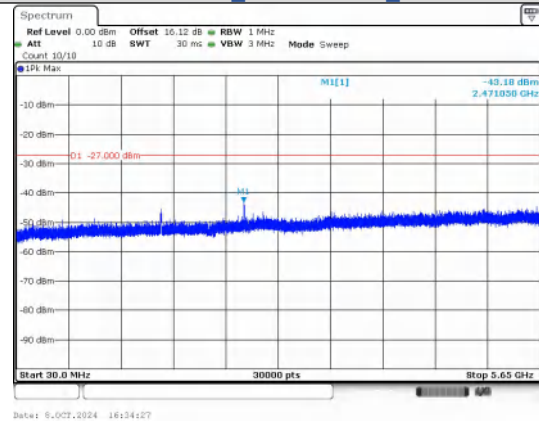
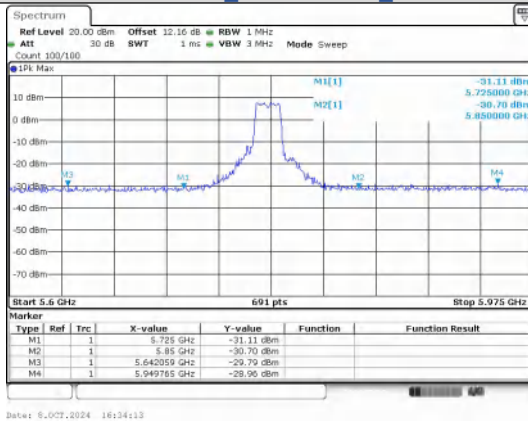
Spurious Emission: 5925~25000.0 MHz
IEEE 802.11a_Channel 165_20MHz

Out Of Band Emission
IEEE 802.11n_Channel 149_20MHz



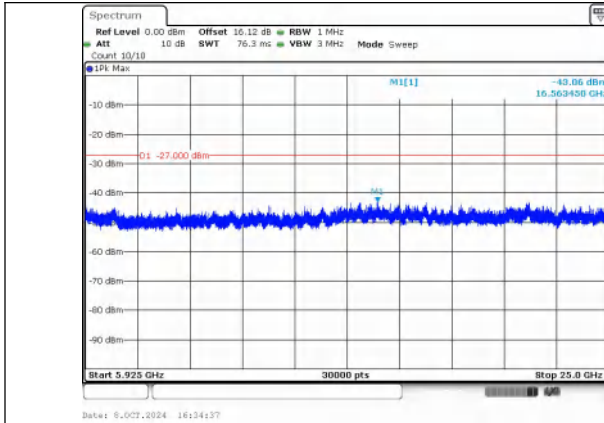
Spurious Emission: 30.0~5650 MHz
IEEE 802.11n_Channel 149_20MHz

Spurious Emission: 5925~25000.0 MHz
IEEE 802.11n_Channel 149_20MHz

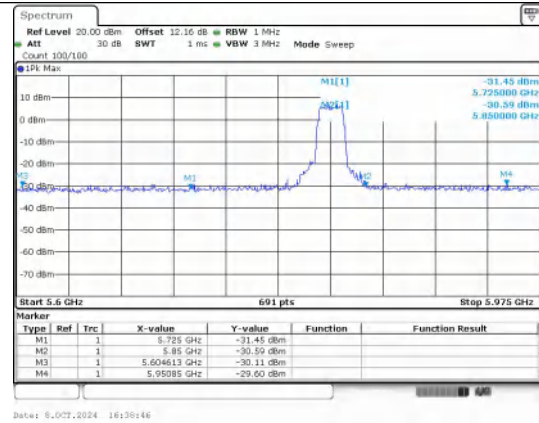


Out Of Band Emission
IEEE 802.11n_Channel 157_20MHz

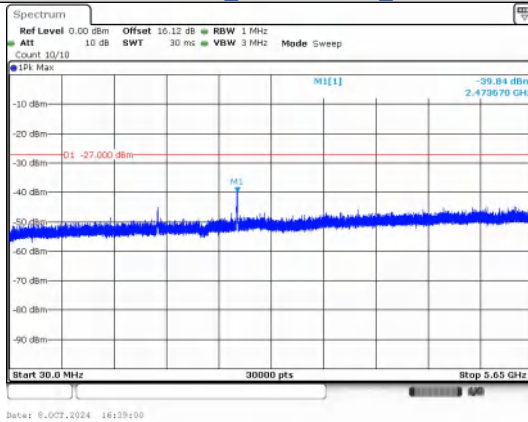
Spurious Emission: 30.0~5650 MHz
IEEE 802.11n_Channel 157_20MHz



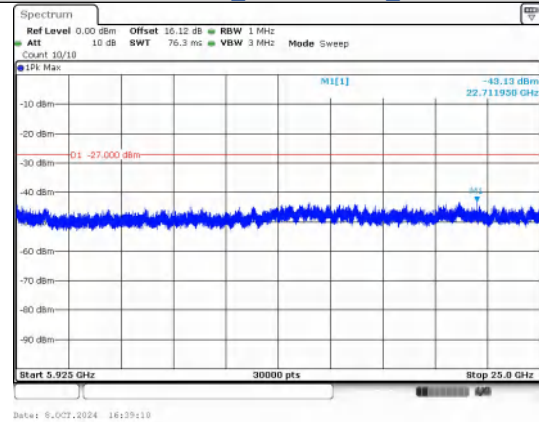
**Spurious Emission: 5925~25000.0 MHz
IEEE 802.11n Channel 157 20MHz**



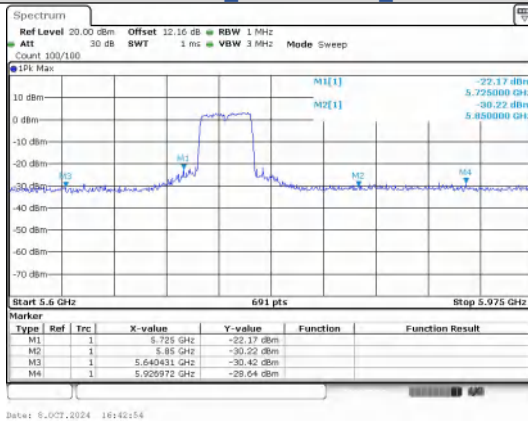
**Out Of Band Emission
IEEE 802.11n Channel 165 20MHz**



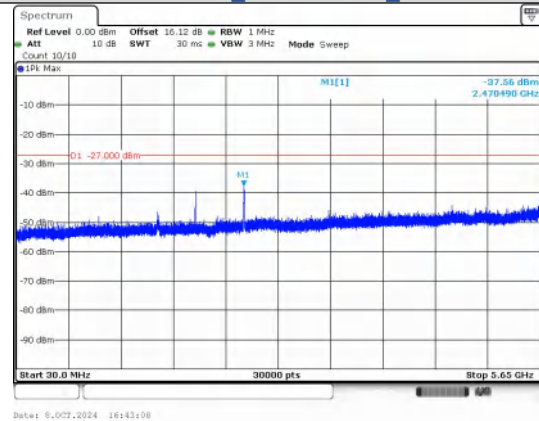
**Spurious Emission: 30.0~5650 MHz
IEEE 802.11n Channel 165 20MHz**



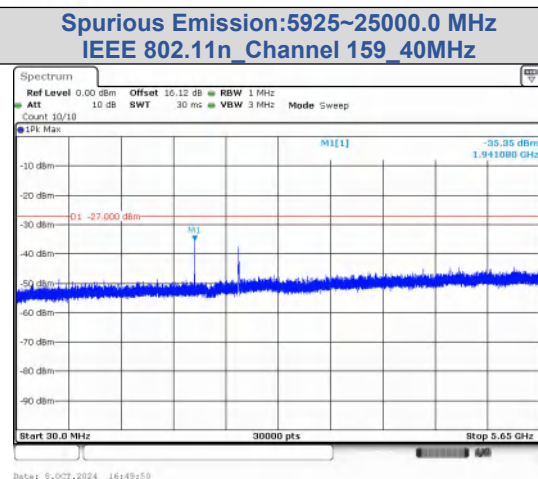
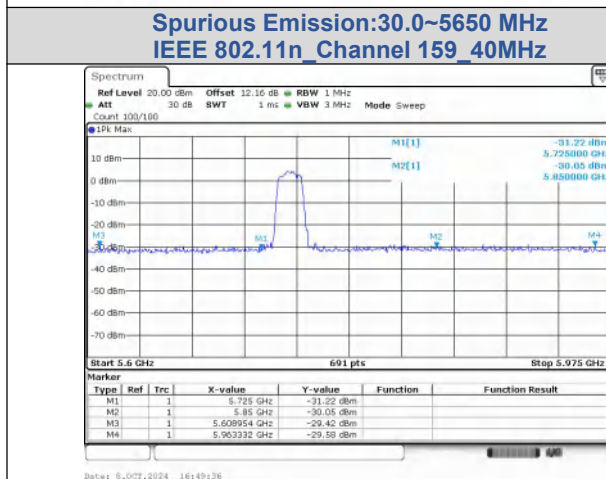
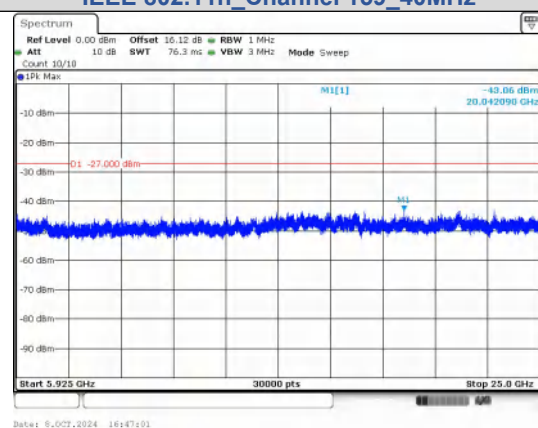
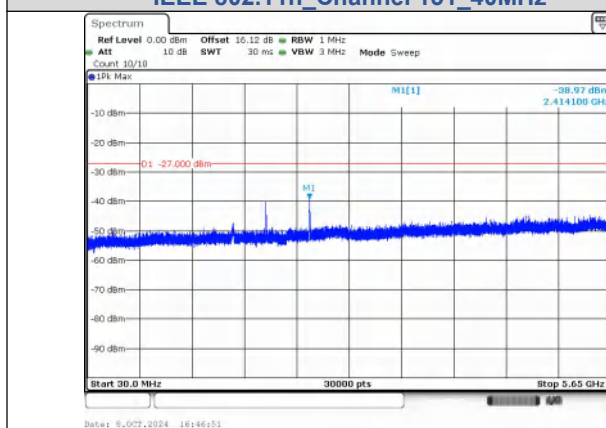
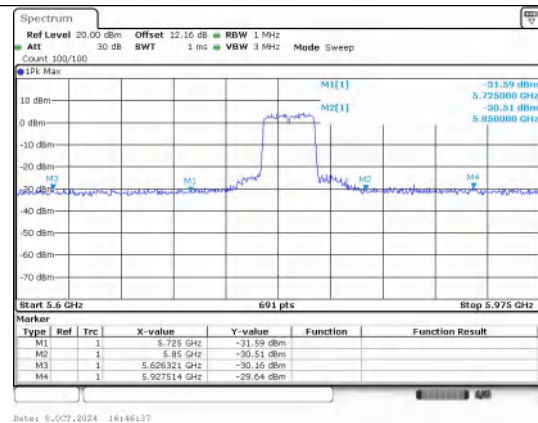
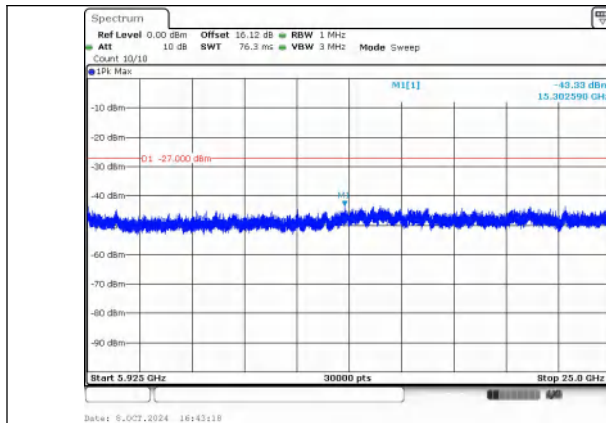
**Spurious Emission: 5925~25000.0 MHz
IEEE 802.11n Channel 165 20MHz**

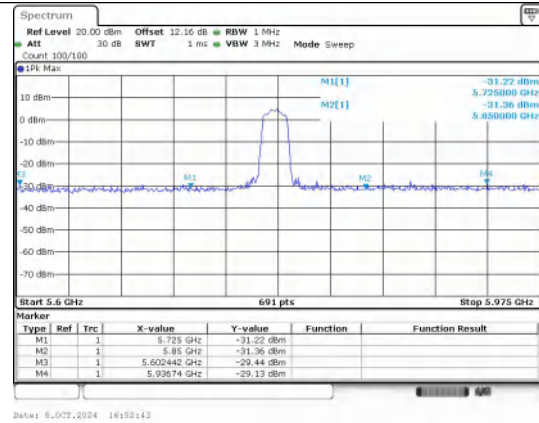
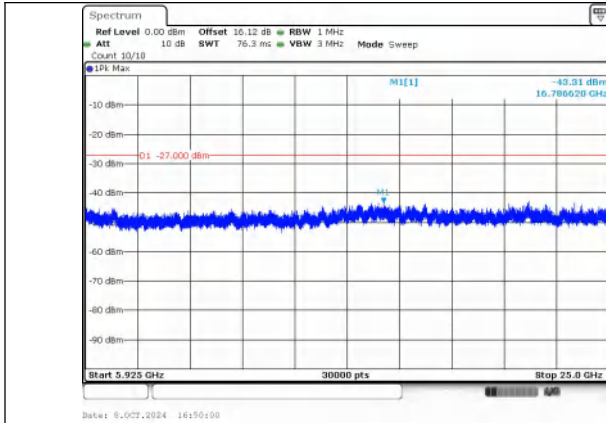


**Out Of Band Emission
IEEE 802.11n Channel 151 40MHz**



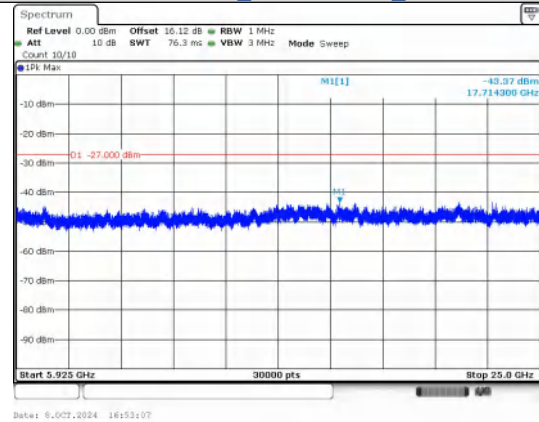
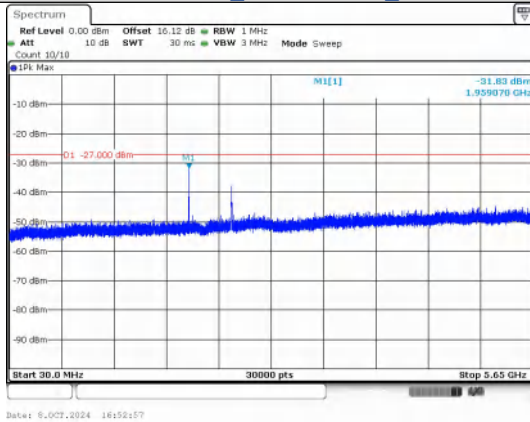
**Spurious Emission: 30.0~5650 MHz
IEEE 802.11n Channel 151 40MHz**





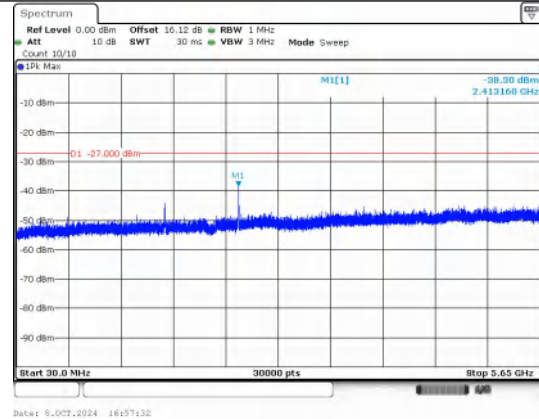
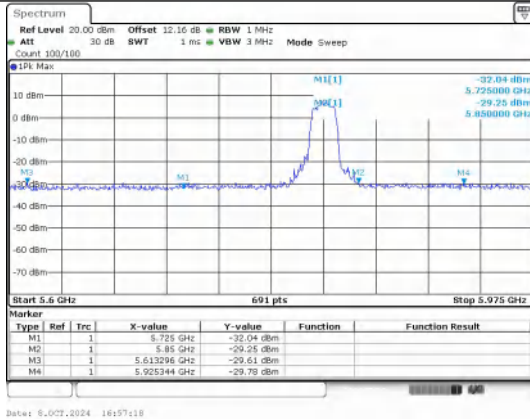
Spurious Emission: 5925~25000.0 MHz
IEEE 802.11ac_Channel 149_20MHz

Out Of Band Emission
IEEE 802.11ac_Channel 157_20MHz



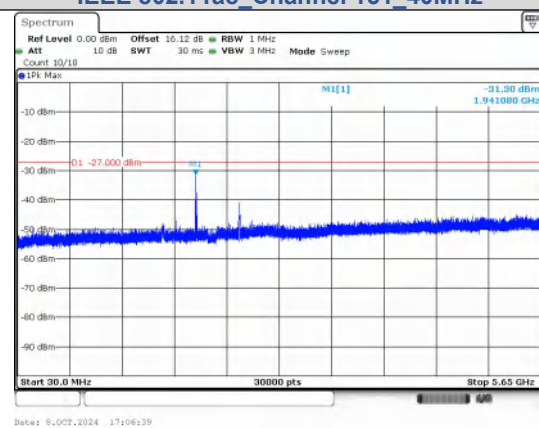
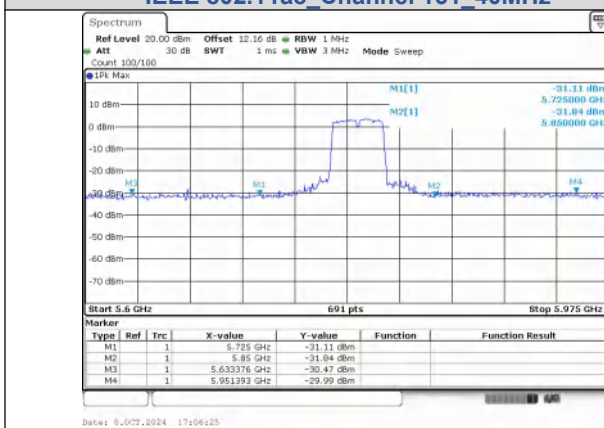
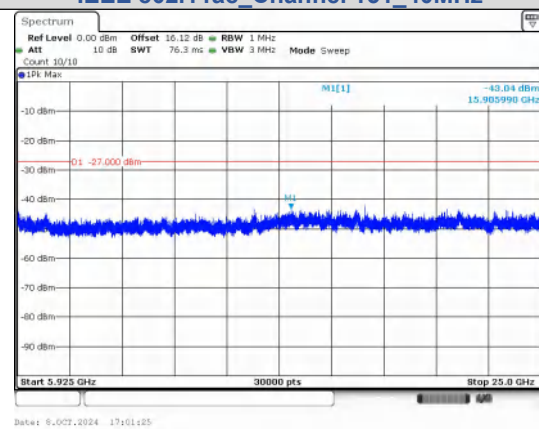
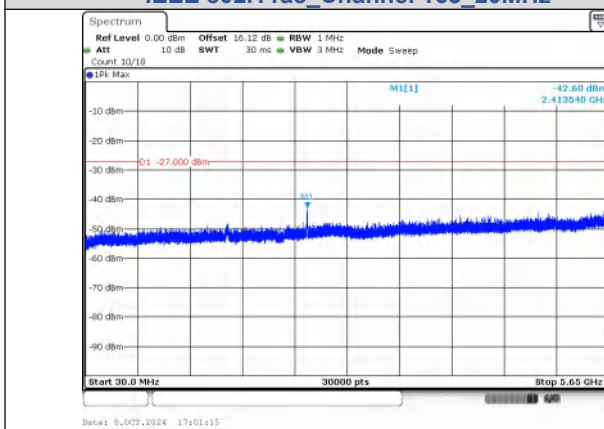
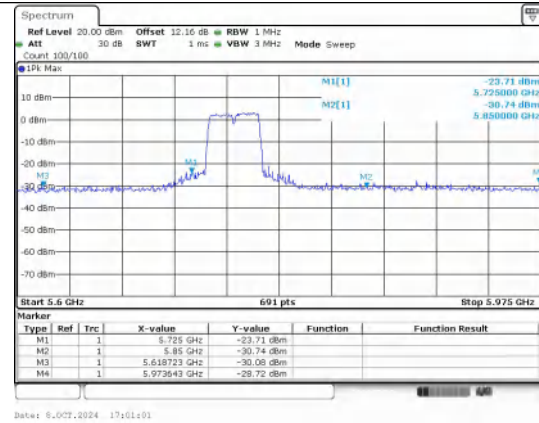
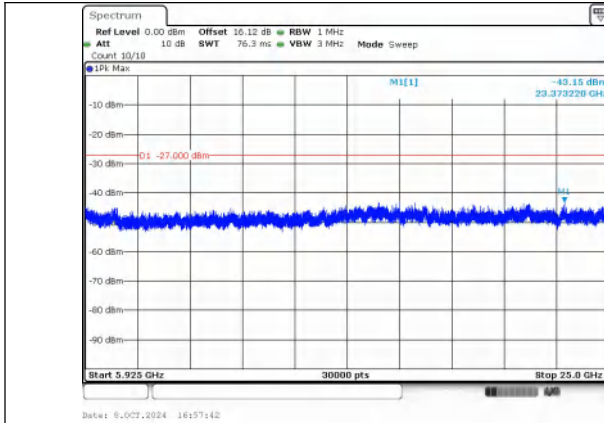
Spurious Emission: 30.0~5650 MHz
IEEE 802.11ac_Channel 157_20MHz

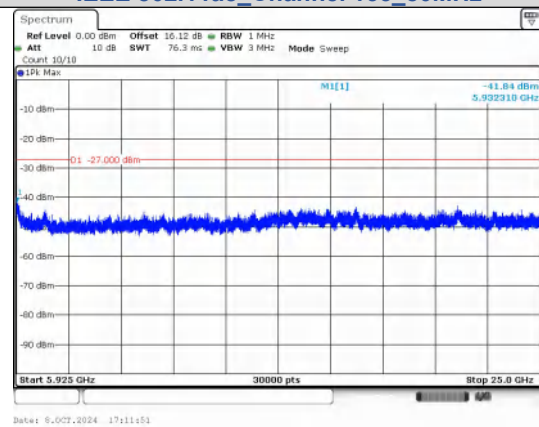
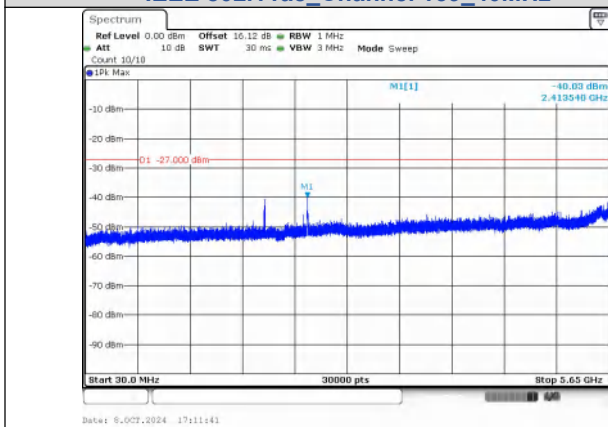
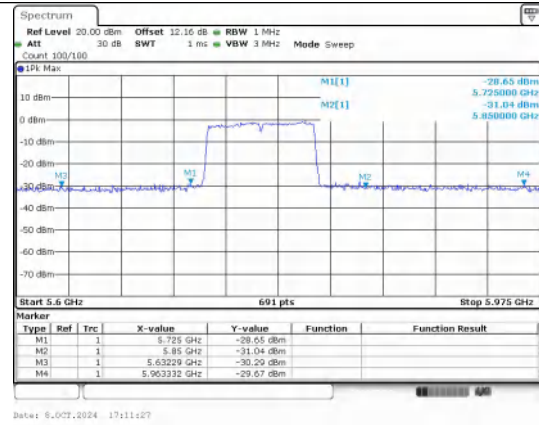
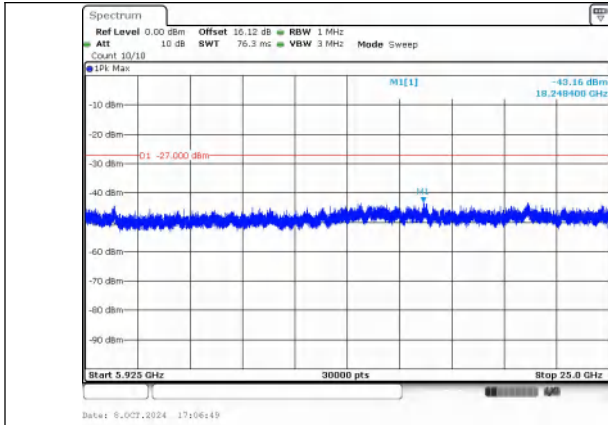
Spurious Emission: 5925~25000.0 MHz
IEEE 802.11ac_Channel 157_20MHz



Out Of Band Emission
IEEE 802.11ac_Channel 165_20MHz

Spurious Emission: 30.0~5650 MHz
IEEE 802.11ac_Channel 165_20MHz





--The end--