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Appendix for 5G WIFI

Applicant: LAUNCH TECH CO., LTD

**Address: Launch Industrial Park, North of Wuhe Avenue,
Banxuegang, Longgang, Shenzhen, Guangdong, P.R. China**

Product Name: Automotive Diagnosis Tool

Model: X-431 PAD VII

FCC ID: XUJPAADVII

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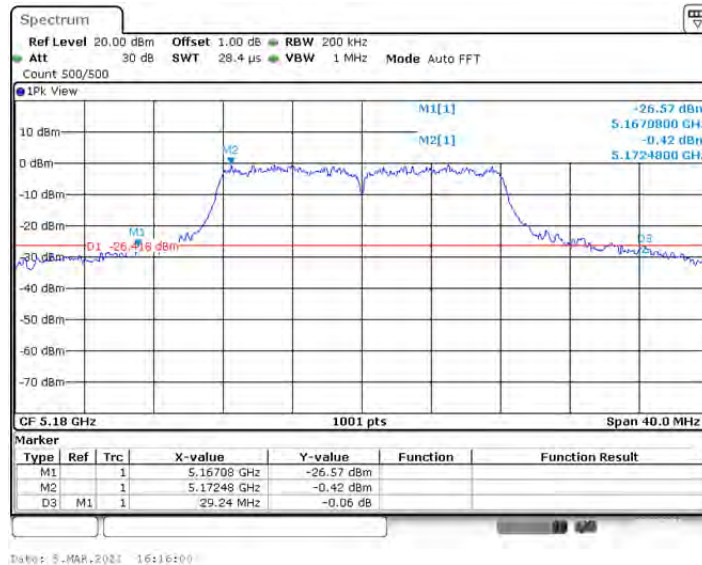
Appendix A1: Emission Bandwidth

Test Result

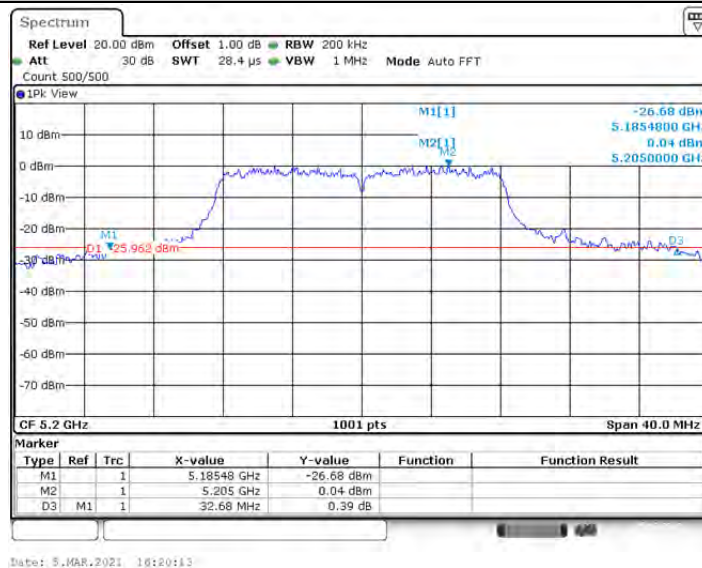
Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
802.11a	Ant1	5180	29.240	5167.080	5196.320	PASS
		5200	32.680	5185.480	5218.160	PASS
		5240	34.600	5223.880	5258.480	PASS
		5745	21.880	5733.560	5755.440	PASS
		5785	27.160	5770.440	5797.600	PASS
		5825	27.520	5810.160	5837.680	PASS
802.11n(HT20)	Ant1	5180	25.160	5168.720	5193.880	PASS
		5200	35.720	5182.800	5218.520	PASS
		5240	37.000	5222.680	5259.680	PASS
		5745	21.240	5734.240	5755.480	PASS
		5785	25.200	5771.120	5796.320	PASS
		5825	29.880	5809.880	5839.760	PASS
802.11n(HT40)	Ant1	5190	57.440	5168.640	5226.080	PASS
		5230	58.800	5206.320	5265.120	PASS
		5755	42.400	5733.720	5776.120	PASS
		5795	53.200	5764.280	5817.480	PASS
802.11ac(VHT20)	Ant1	5180	27.840	5167.600	5195.440	PASS
		5200	28.360	5187.120	5215.480	PASS
		5240	29.560	5225.600	5255.160	PASS
		5745	22.040	5733.440	5755.480	PASS
		5785	23.560	5773.360	5796.920	PASS
		5825	32.800	5808.320	5841.120	PASS
802.11ac(VHT40)	Ant1	5190	42.240	5169.360	5211.600	PASS
		5230	69.440	5199.440	5268.880	PASS
		5755	42.640	5733.160	5775.800	PASS
		5795	50.640	5769.320	5819.960	PASS
802.11ac(VHT80)	Ant1	5210	86.560	5168.880	5255.440	PASS
		5775	80.960	5734.040	5815.000	PASS

Test Graphs

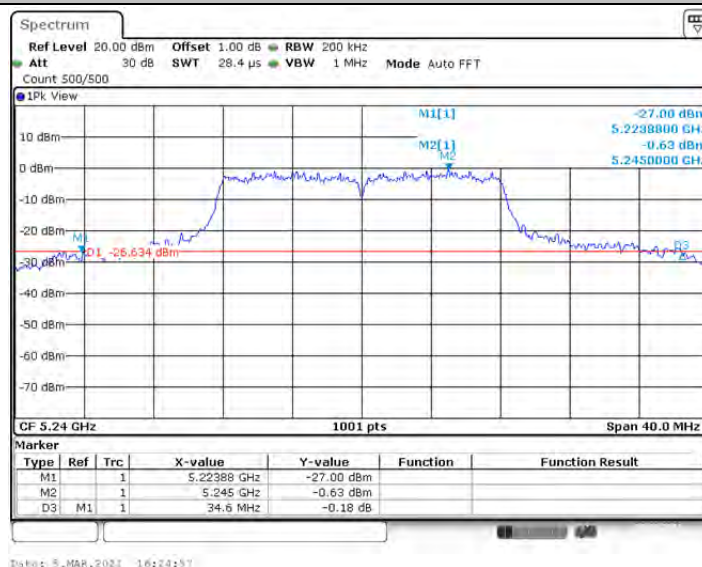
802.11a_Ant1_5180



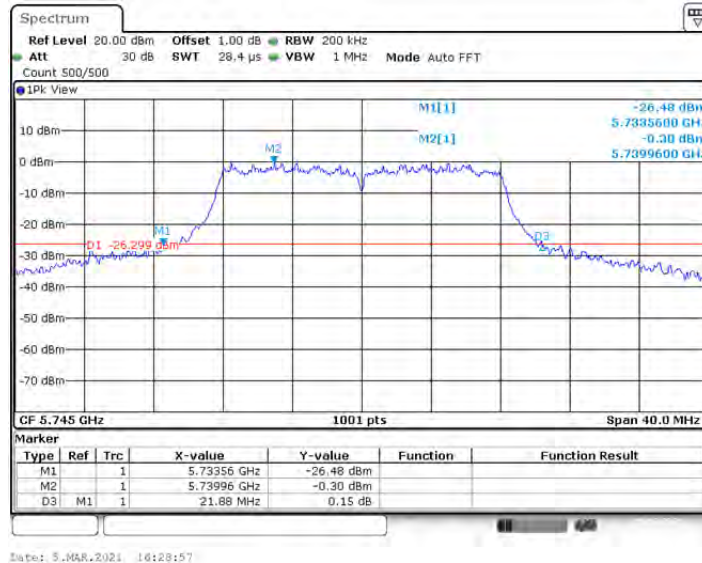
802.11a_Ant1_5200



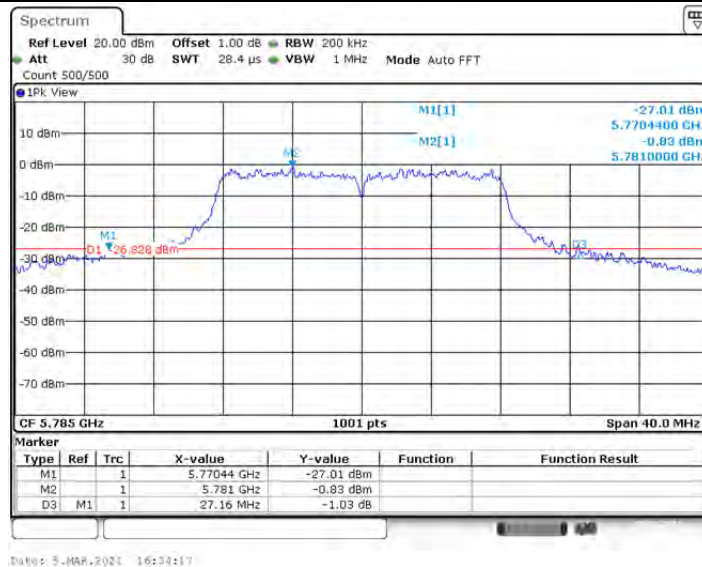
802.11a_Ant1_5240



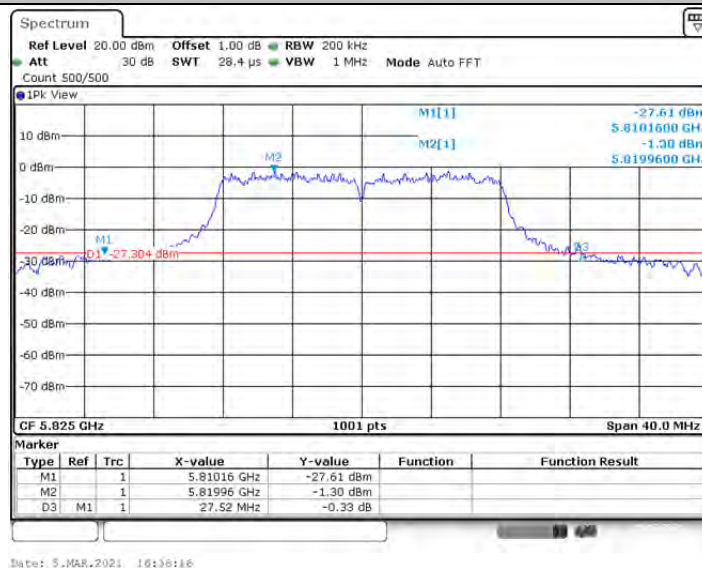
802.11a_Ant1_5745



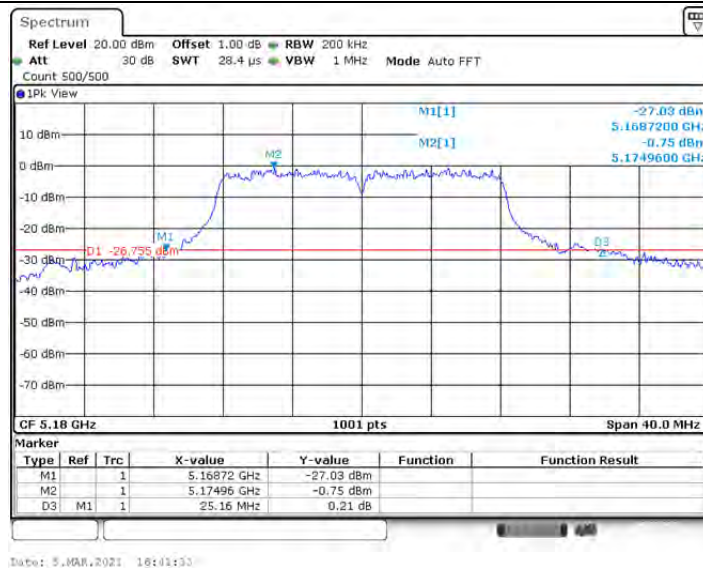
802.11a_Ant1_5785



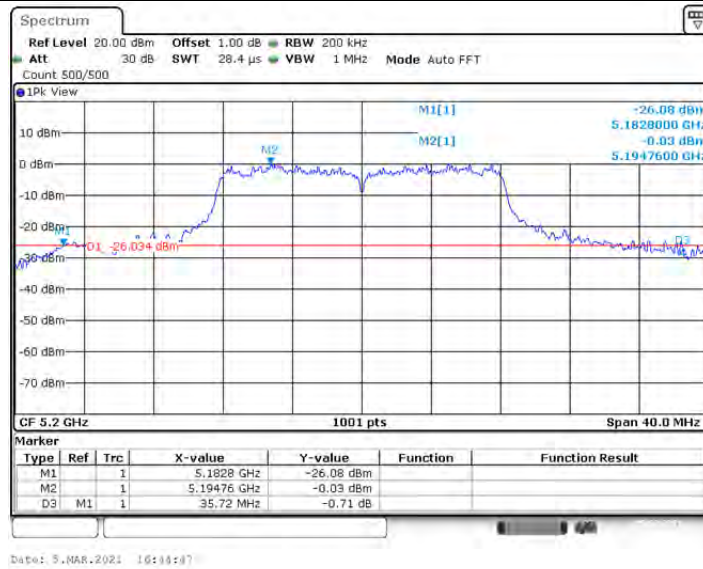
802.11a_Ant1_5825



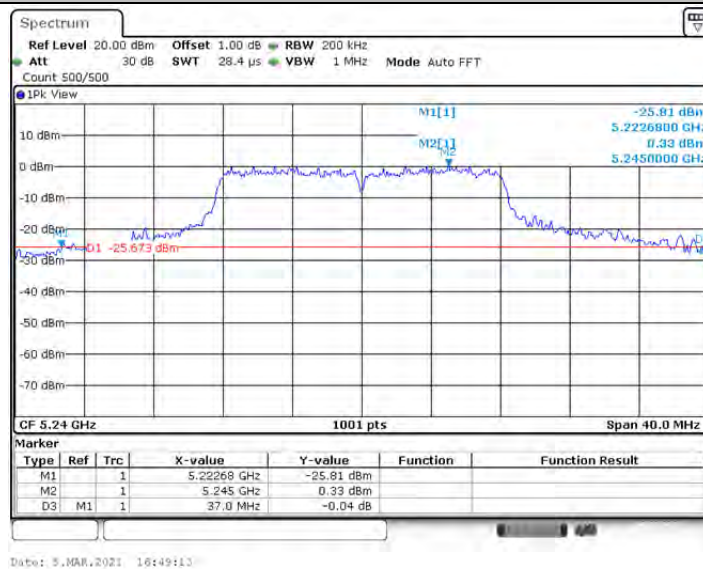
802.11n(HT20)_Ant1_5180



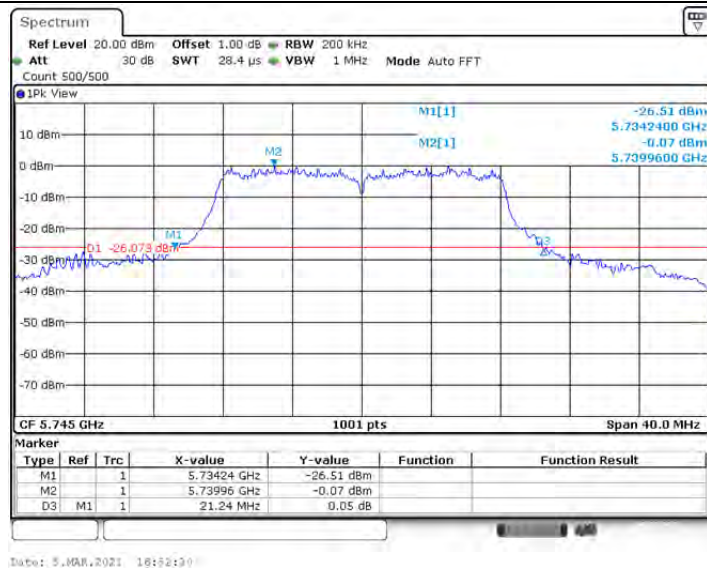
802.11n(HT20)_Ant1_5200



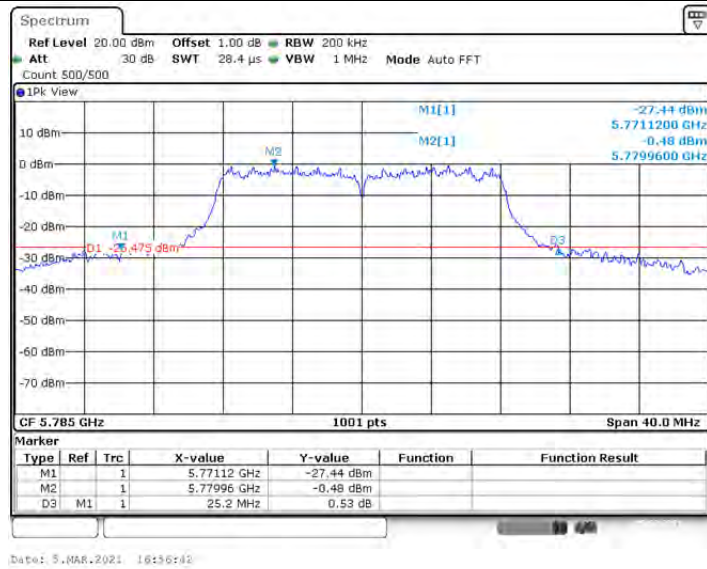
802.11n(HT20)_Ant1_5240



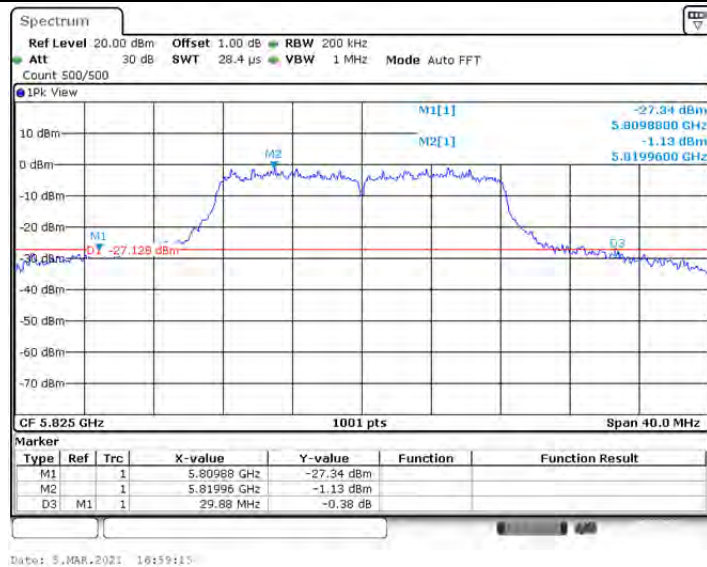
802.11n(HT20)_Ant1_5745



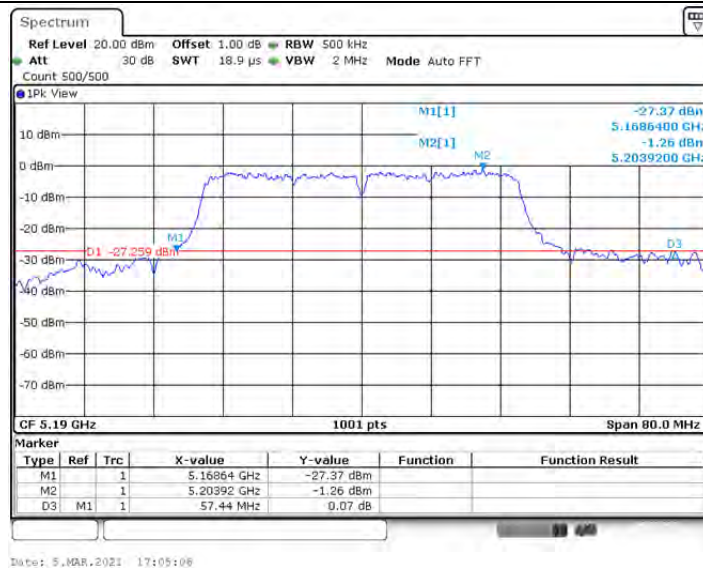
802.11n(HT20)_Ant1_5785



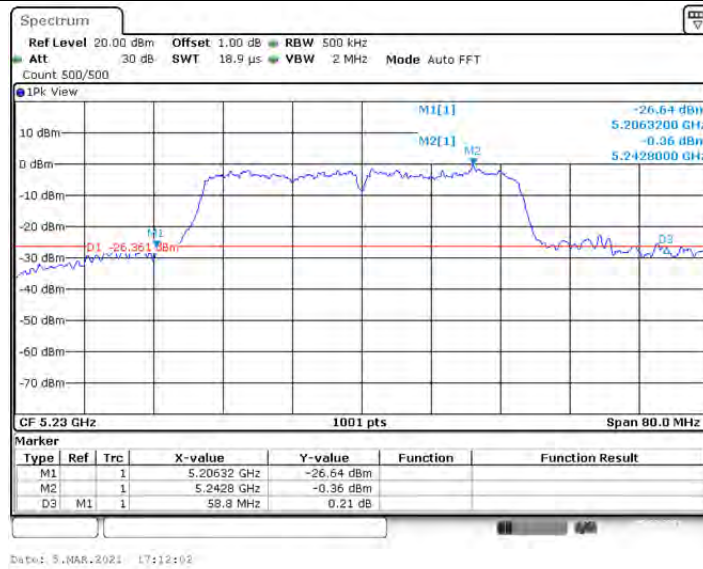
802.11n(HT20)_Ant1_5825



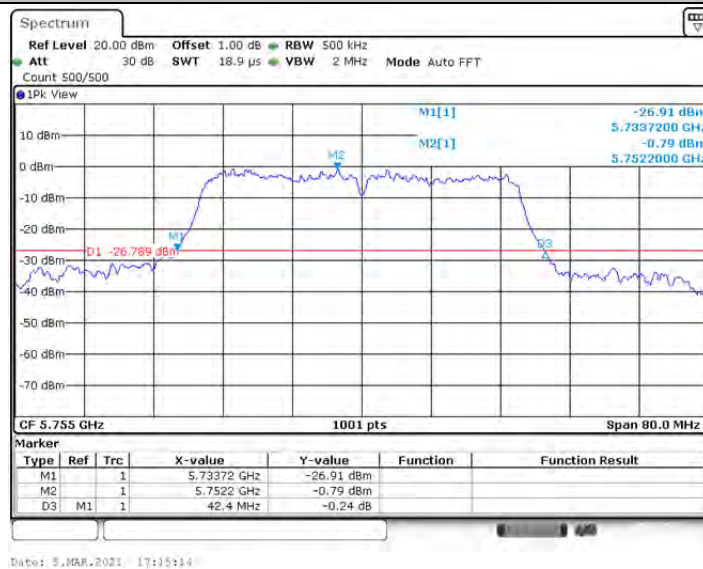
802.11n(HT40)_Ant1_5190



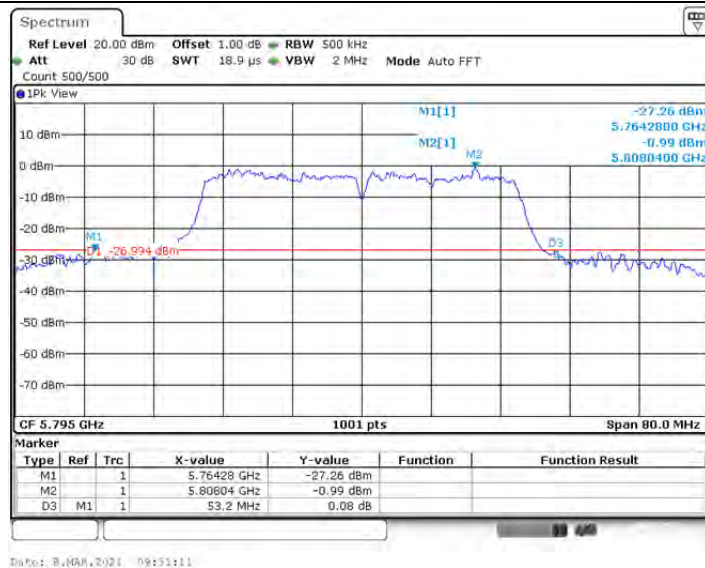
802.11n(HT40)_Ant1_5230



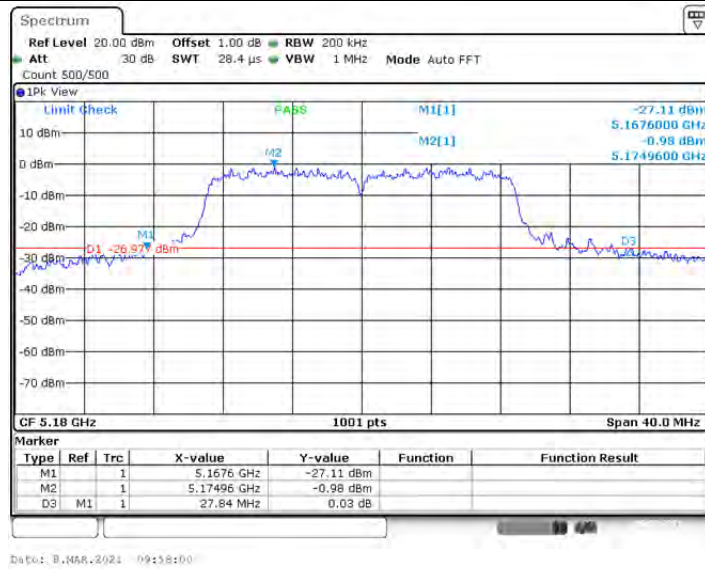
802.11n(HT40)_Ant1_5755



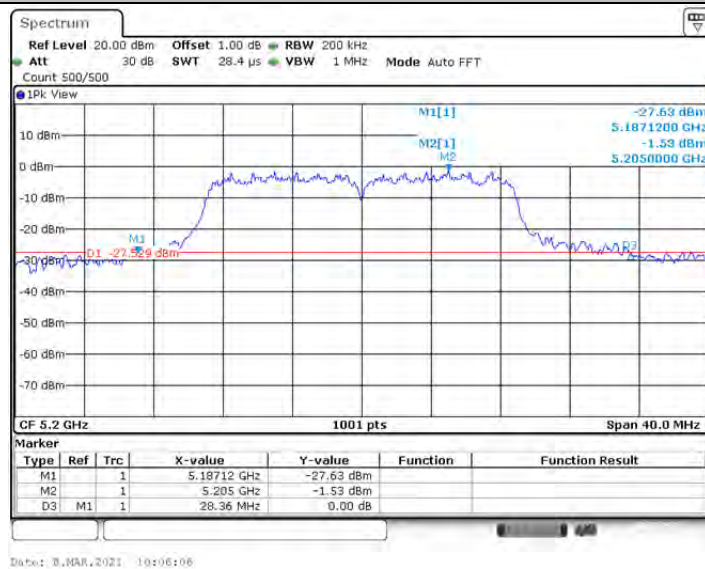
802.11n(HT40)_Ant1_5795



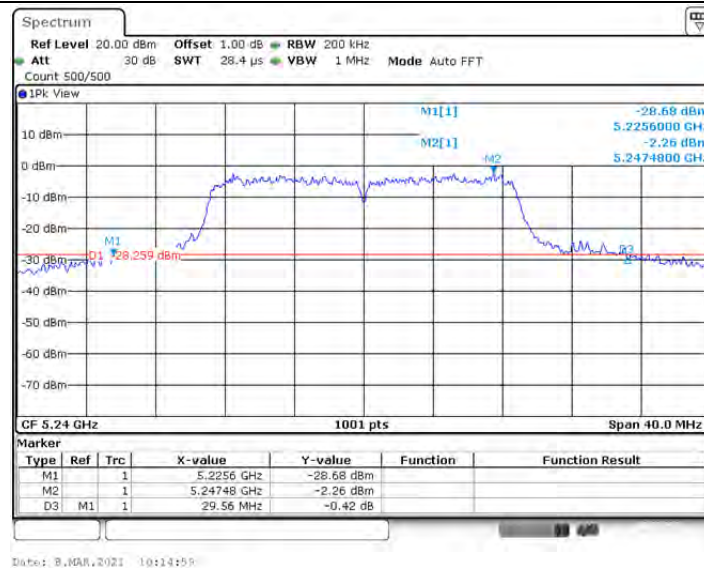
802.11ac(VHT20)_Ant1_5180



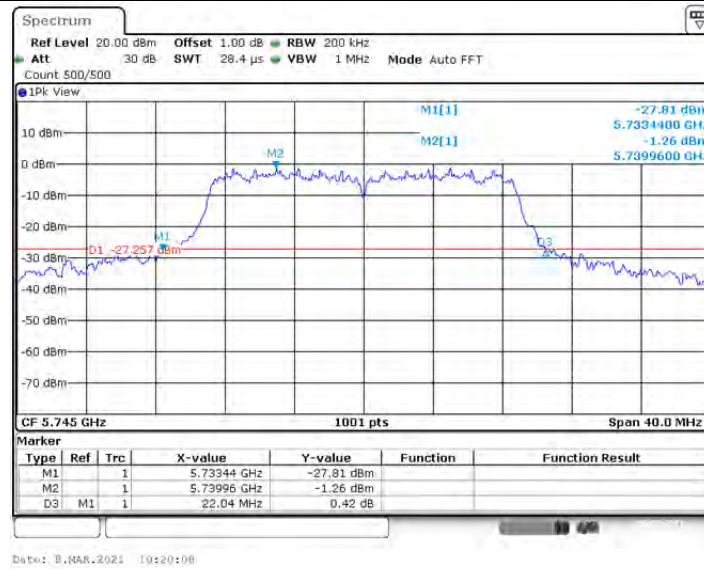
802.11ac(VHT20)_Ant1_5200



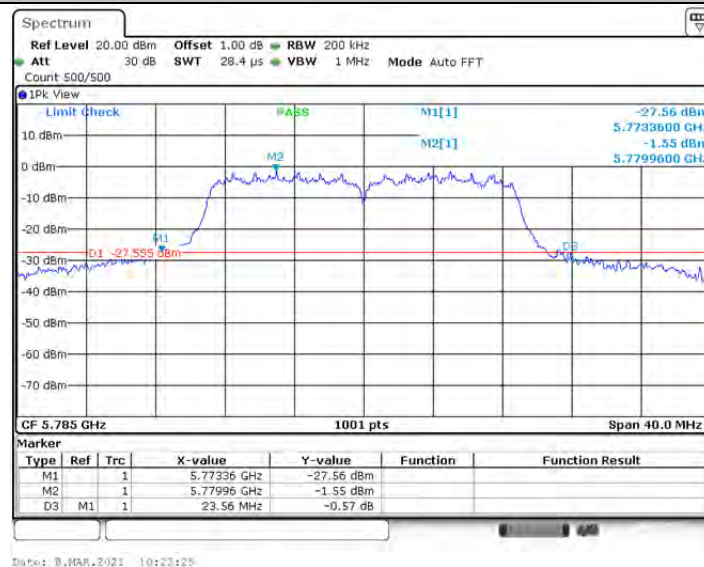
802.11ac(VHT20)_Ant1_5240



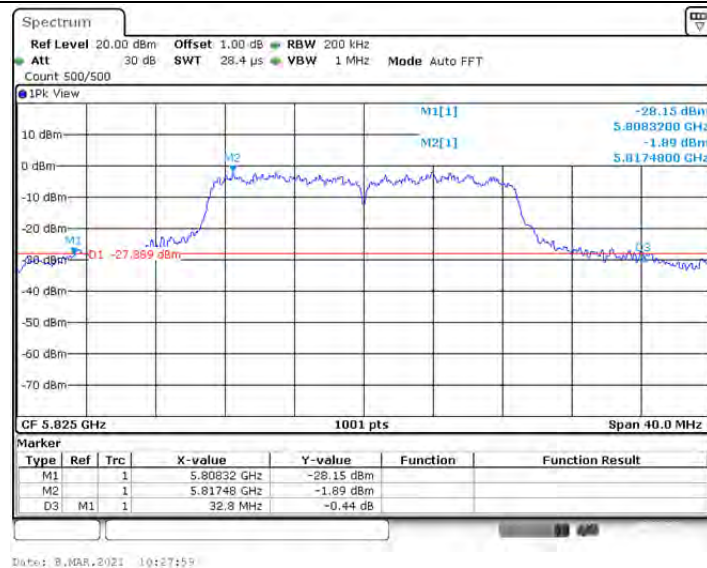
802.11ac(VHT20)_Ant1_5745



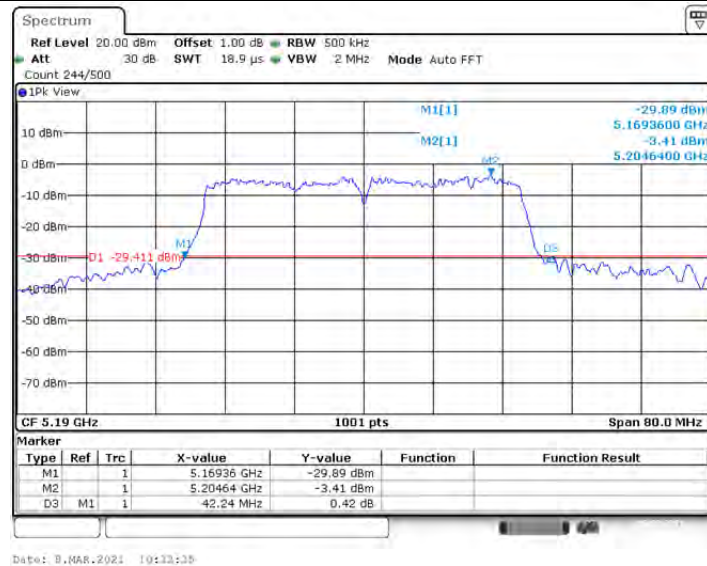
802.11ac(VHT20)_Ant1_5785



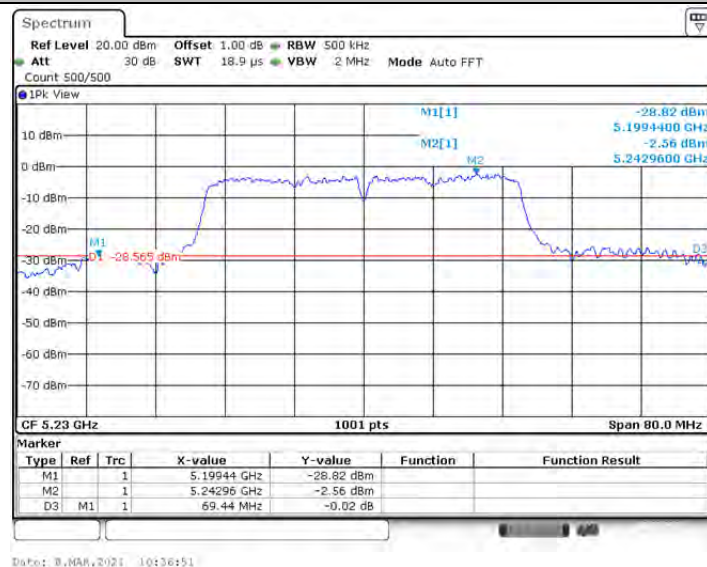
802.11ac(VHT20)_Ant1_5825



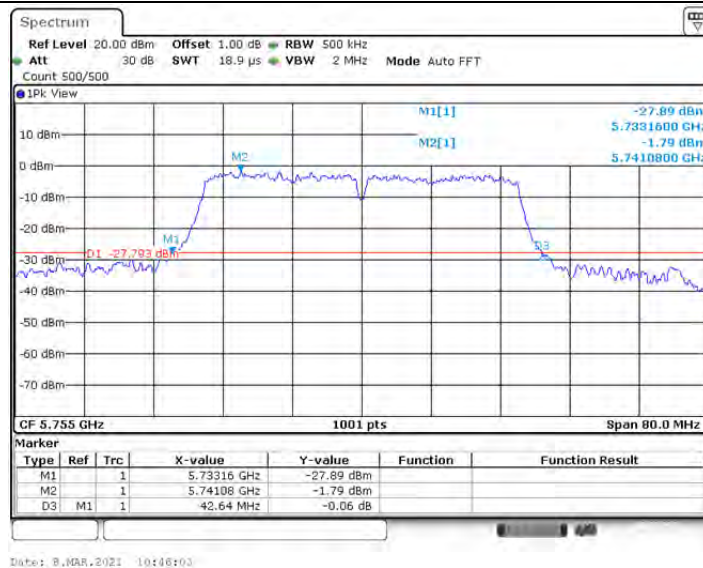
802.11ac(VHT40)_Ant1_5190



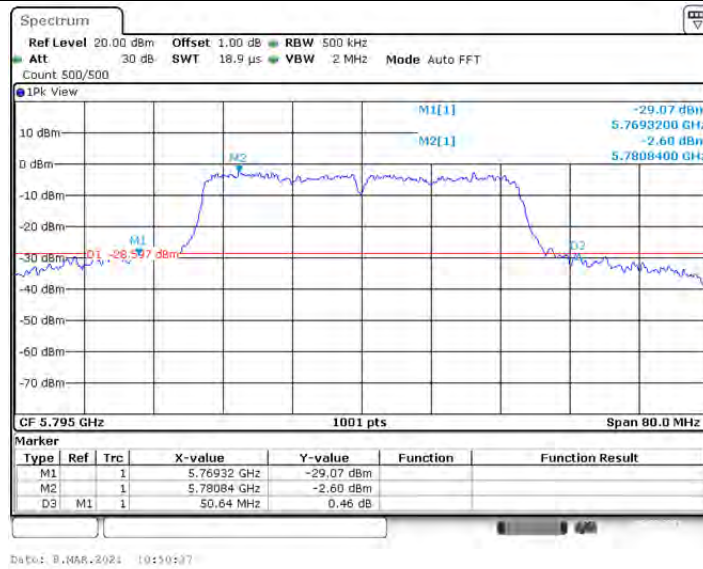
802.11ac(VHT40)_Ant1_5230



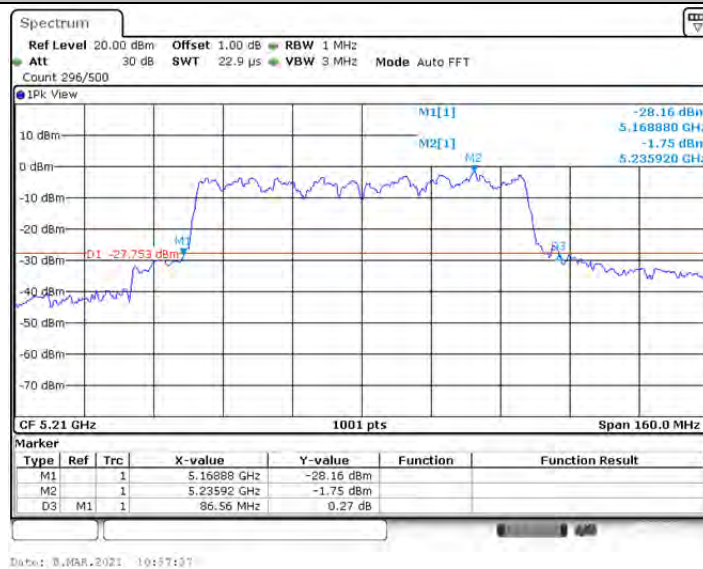
802.11ac(VHT40)_Ant1_5755



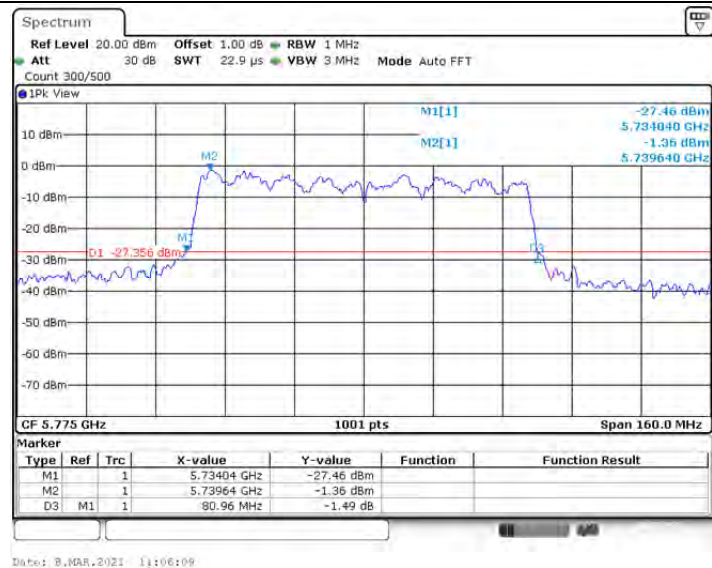
802.11ac(VHT40)_Ant1_5795



802.11ac(VHT80)_Ant1_5210



802.11ac(VHT80)_Ant1_5775



Appendix A2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	Verdict
802.11a	Ant1	5180	17.582	PASS
		5200	18.382	PASS
		5240	18.661	PASS
		5745	17.143	PASS
		5785	17.662	PASS
		5825	17.782	PASS
802.11n(HT20)	Ant1	5180	17.662	PASS
		5200	18.422	PASS
		5240	19.141	PASS
		5745	17.662	PASS
		5785	17.423	PASS
		5825	17.982	PASS
802.11n(HT40)	Ant1	5190	36.763	PASS
		5230	37.083	PASS
		5755	36.364	PASS
		5795	36.763	PASS
802.11ac(VHT20)	Ant1	5180	18.422	PASS
		5200	18.701	PASS
		5240	18.901	PASS
		5745	18.142	PASS
		5785	18.541	PASS
		5825	18.621	PASS
802.11ac(VHT40)	Ant1	5190	36.923	PASS
		5230	36.683	PASS
		5755	36.444	PASS
		5795	36.923	PASS
802.11ac(VHT80)	Ant1	5210	76.404	PASS
		5775	76.244	PASS

Test Graphs

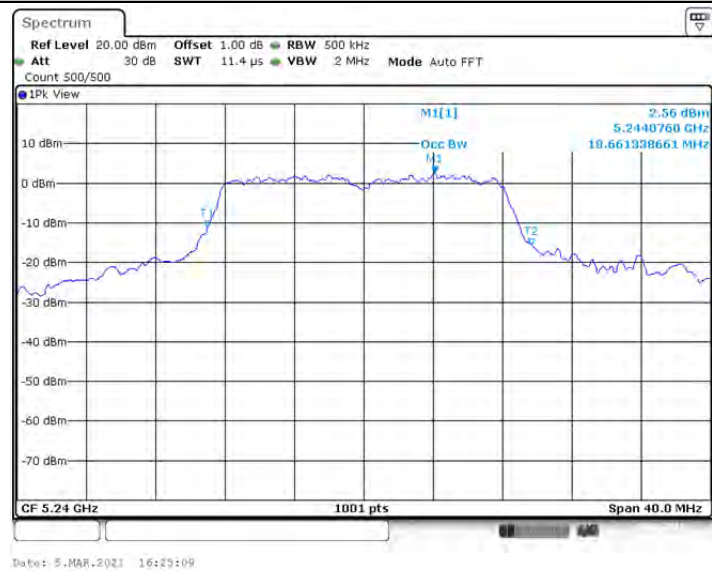
802.11a_Ant1_5180



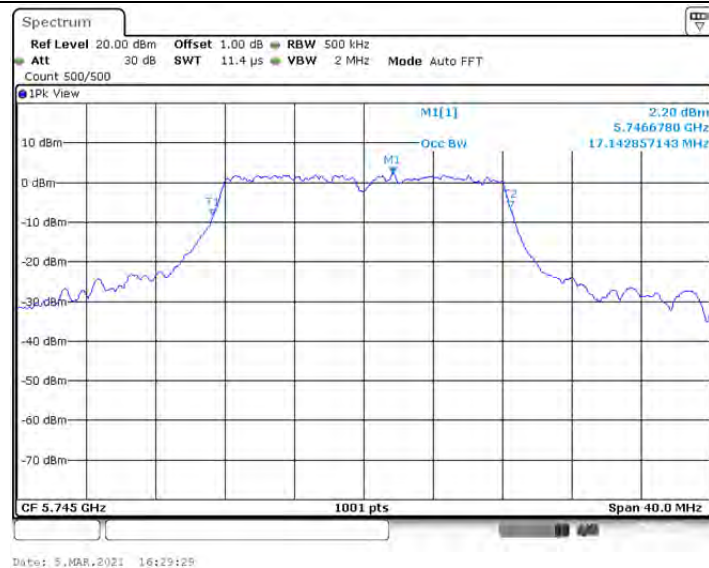
802.11a_Ant1_5200



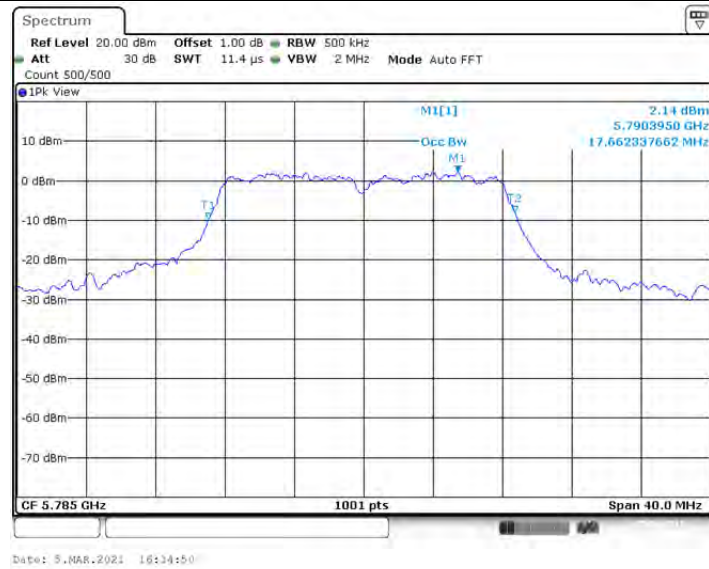
802.11a_Ant1_5240



802.11a_Ant1_5745



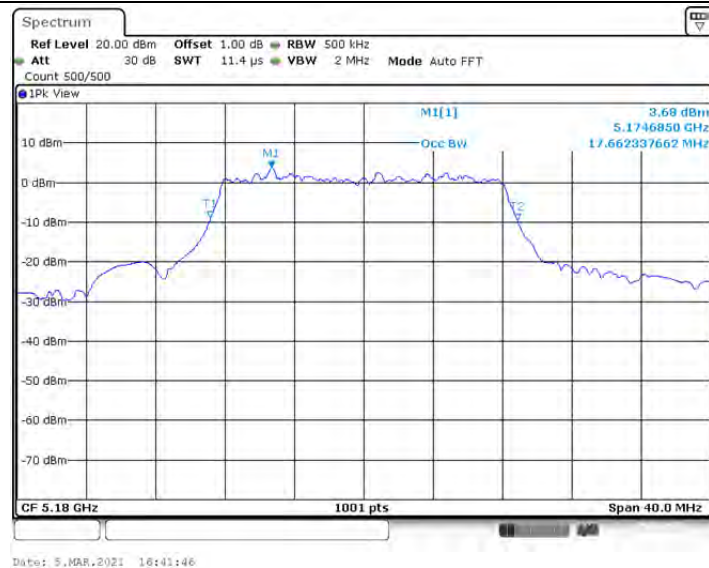
802.11a_Ant1_5785



802.11a_Ant1_5825



802.11n(HT20)_Ant1_5180



802.11n(HT20)_Ant1_5200



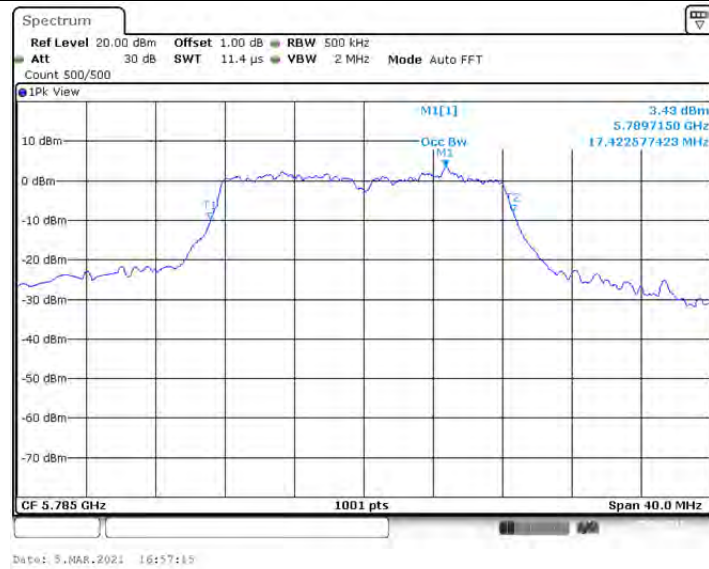
802.11n(HT20)_Ant1_5240



802.11n(HT20)_Ant1_5745



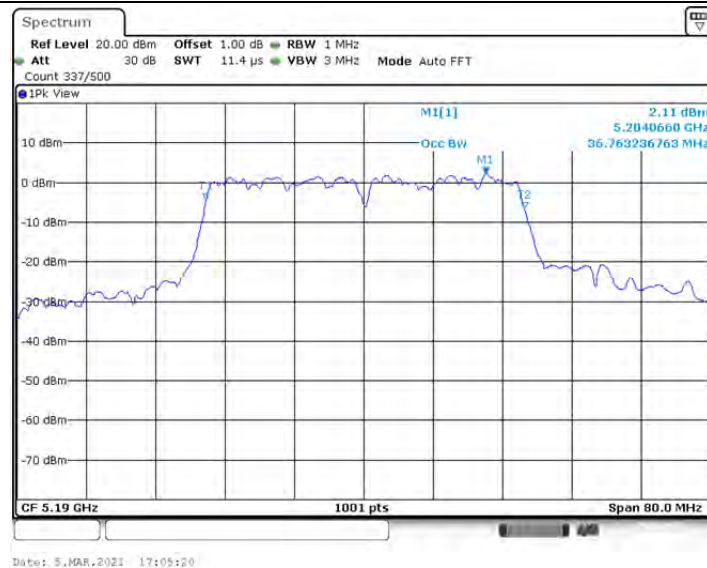
802.11n(HT20)_Ant1_5785



802.11n(HT20)_Ant1_5825



802.11n(HT40)_Ant1_5190



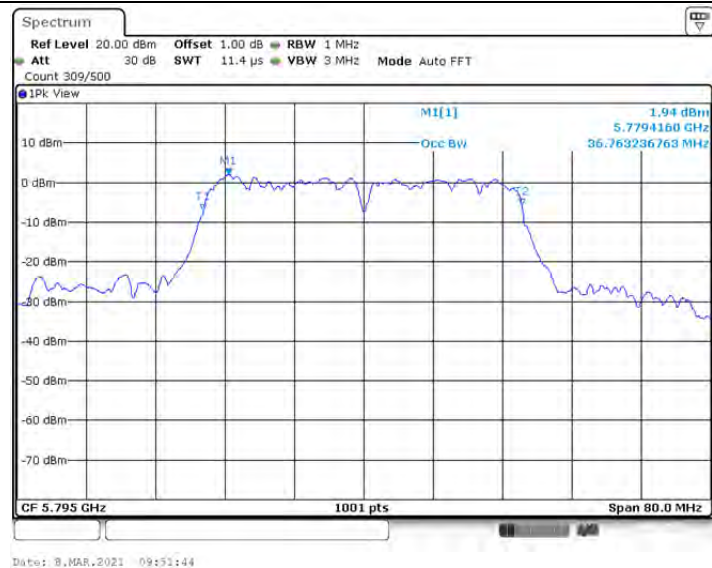
802.11n(HT40)_Ant1_5230



802.11n(HT40)_Ant1_5755



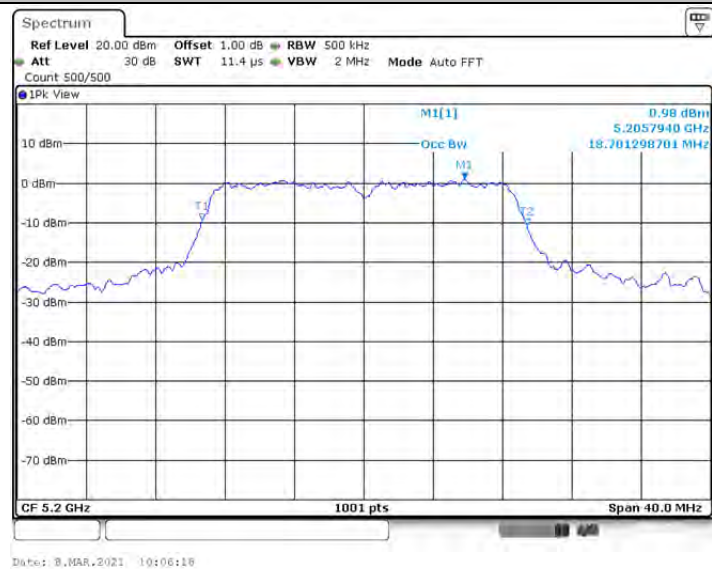
802.11n(HT40)_Ant1_5795



802.11ac(VHT20)_Ant1_5180



802.11ac(VHT20)_Ant1_5200



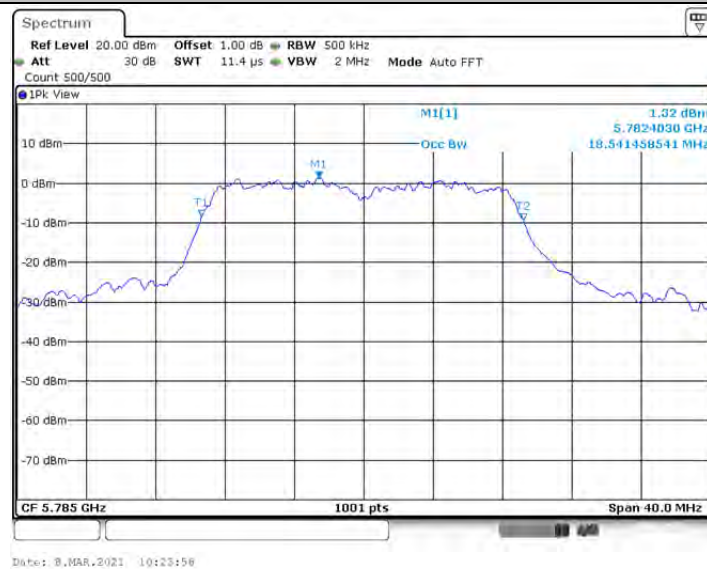
802.11ac(VHT20)_Ant1_5240



802.11ac(VHT20)_Ant1_5745



802.11ac(VHT20)_Ant1_5785



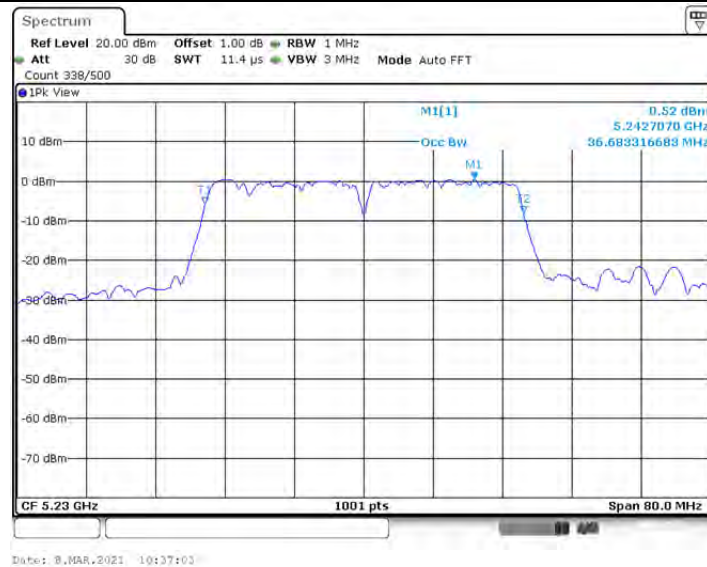
802.11ac(VHT20)_Ant1_5825



802.11ac(VHT40)_Ant1_5190



802.11ac(VHT40)_Ant1_5230



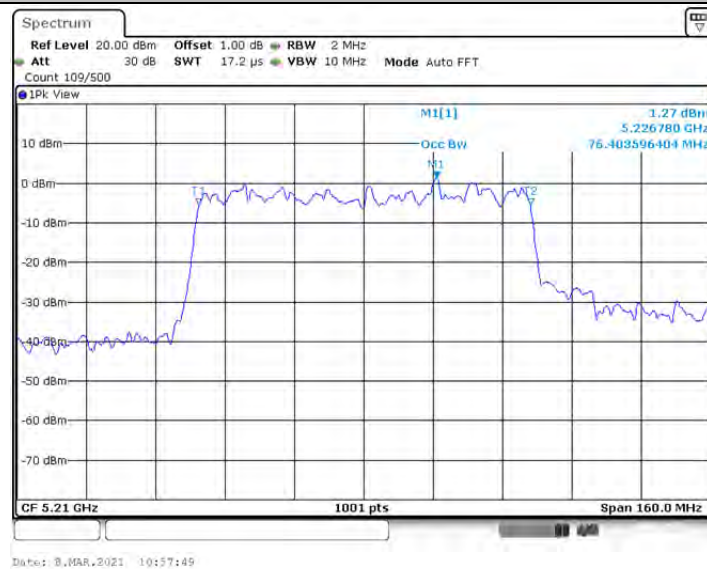
802.11ac(VHT40)_Ant1_5755



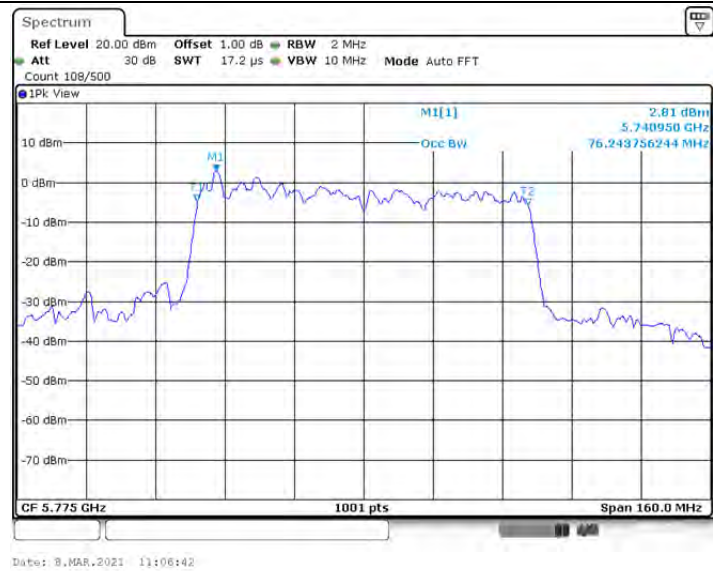
802.11ac(VHT40)_Ant1_5795



802.11ac(VHT80)_Ant1_5210



802.11ac(VHT80)_Ant1_5775



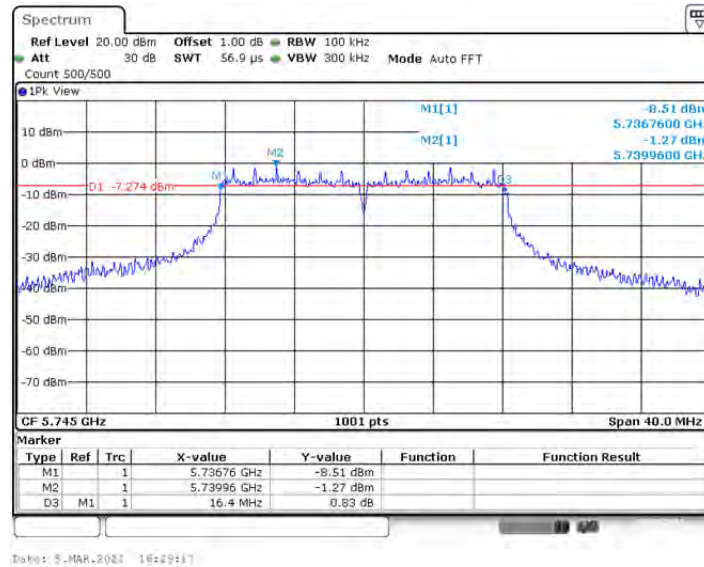
Appendix A3: Min emission bandwidth

Test Result

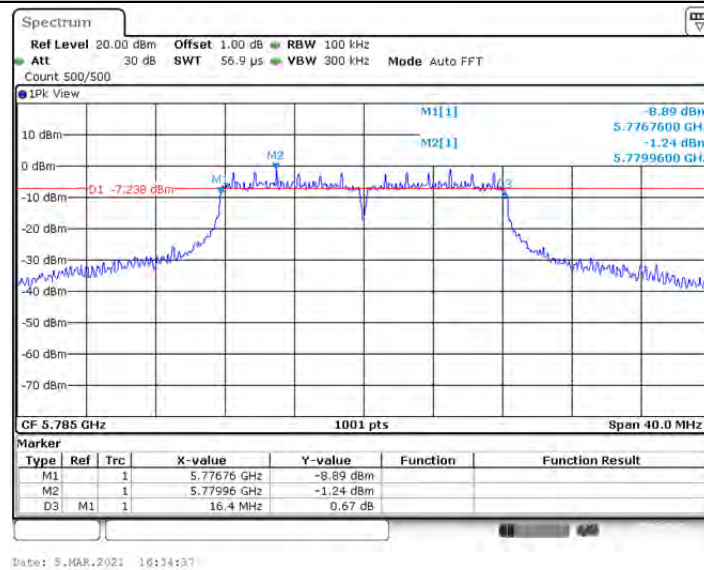
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5745	16.400	5736.760	5753.160	>0.5	PASS
		5785	16.400	5776.760	5793.160	>0.5	PASS
		5825	16.400	5816.760	5833.160	>0.5	PASS
802.11n(HT20)	Ant1	5745	16.400	5736.760	5753.160	>0.5	PASS
		5785	16.400	5776.760	5793.160	>0.5	PASS
		5825	16.400	5816.760	5833.160	>0.5	PASS
802.11n(HT40)	Ant1	5755	35.600	5737.000	5772.600	>0.5	PASS
		5795	35.520	5777.320	5812.840	>0.5	PASS
802.11ac(VHT20)	Ant1	5745	17.360	5736.160	5753.520	>0.5	PASS
		5785	17.360	5776.160	5793.520	>0.5	PASS
		5825	17.000	5816.400	5833.400	>0.5	PASS
802.11ac(VHT40)	Ant1	5755	35.520	5737.080	5772.600	>0.5	PASS
		5795	35.840	5776.760	5812.600	>0.5	PASS
802.11ac(VHT80)	Ant1	5775	75.360	5737.240	5812.600	>0.5	PASS

Test Graphs

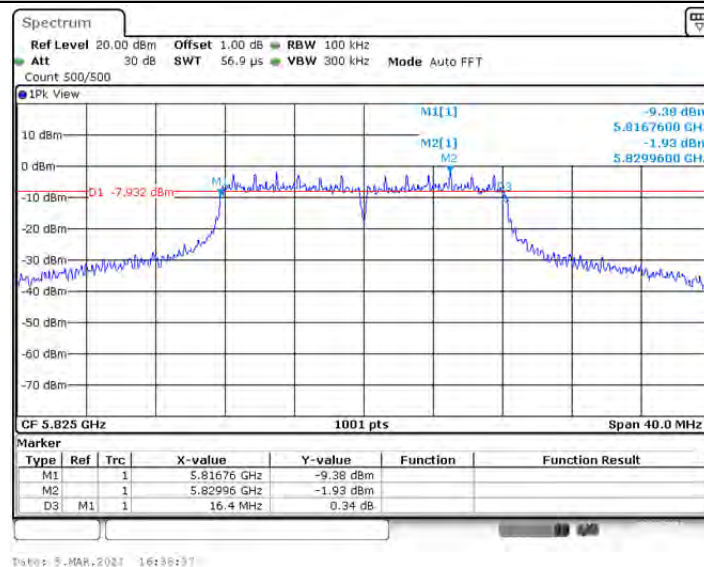
802.11a_Ant1_5745



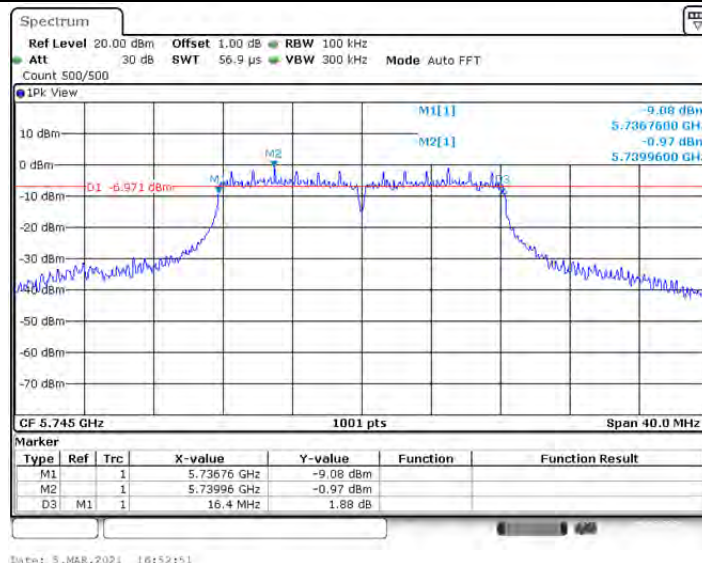
802.11a_Ant1_5785



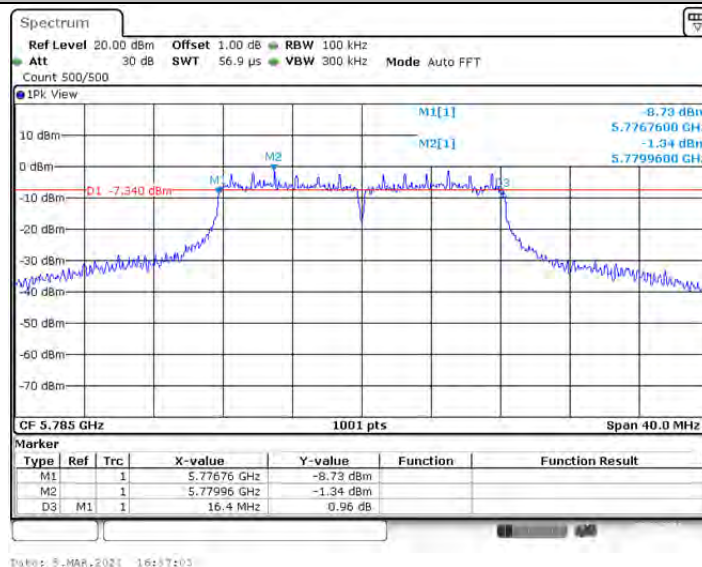
802.11a_Ant1_5825



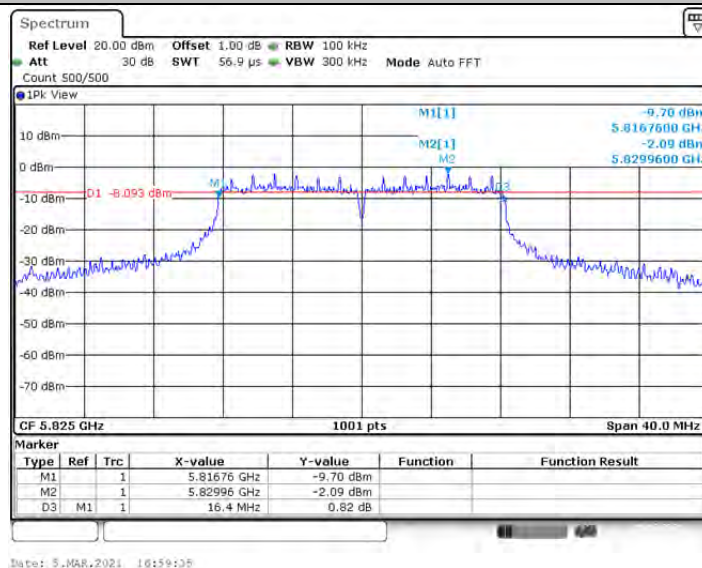
802.11n(HT20)_Ant1_5745



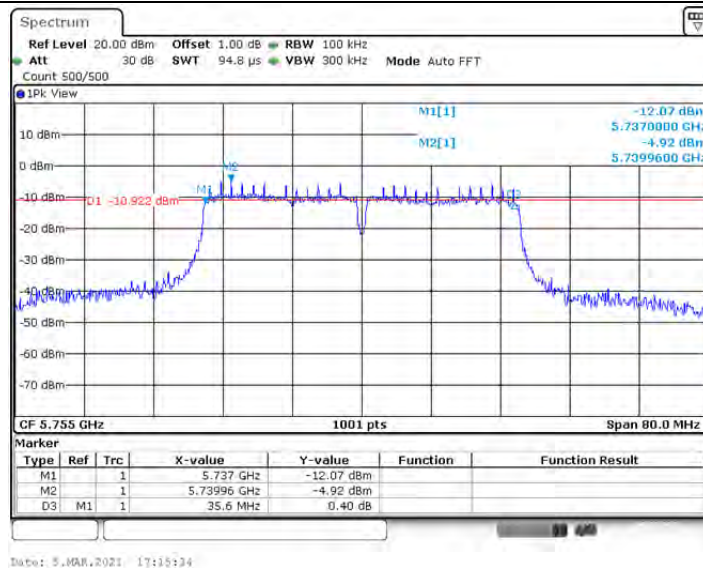
802.11n(HT20)_Ant1_5785



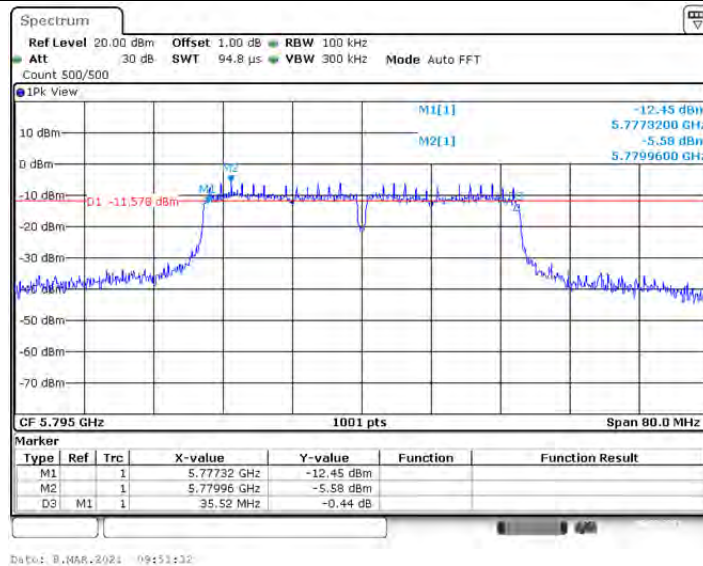
802.11n(HT20)_Ant1_5825



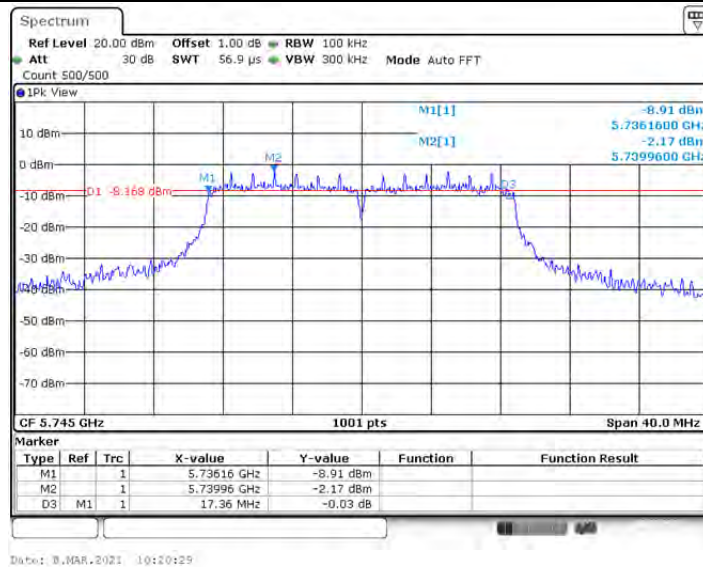
802.11n(HT40)_Ant1_5755



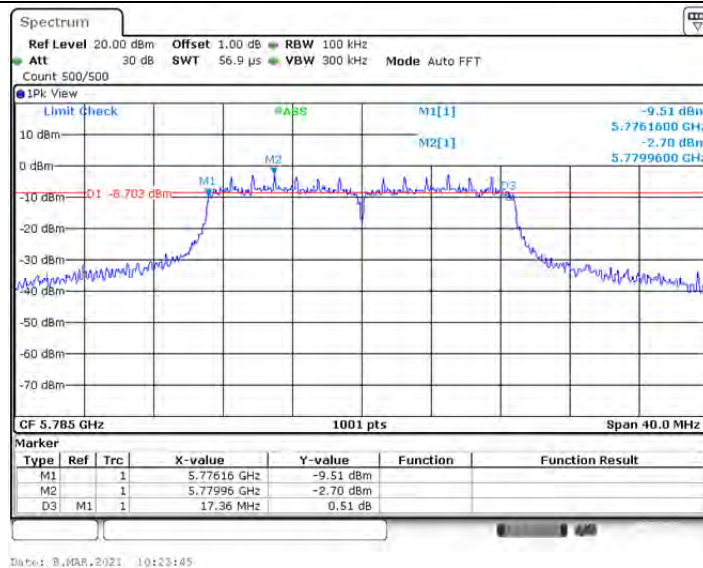
802.11n(HT40)_Ant1_5795



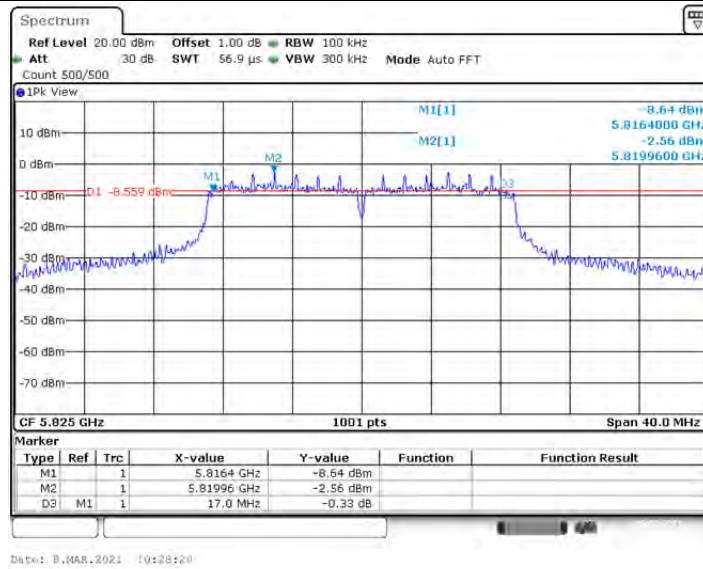
802.11ac(VHT20)_Ant1_5745



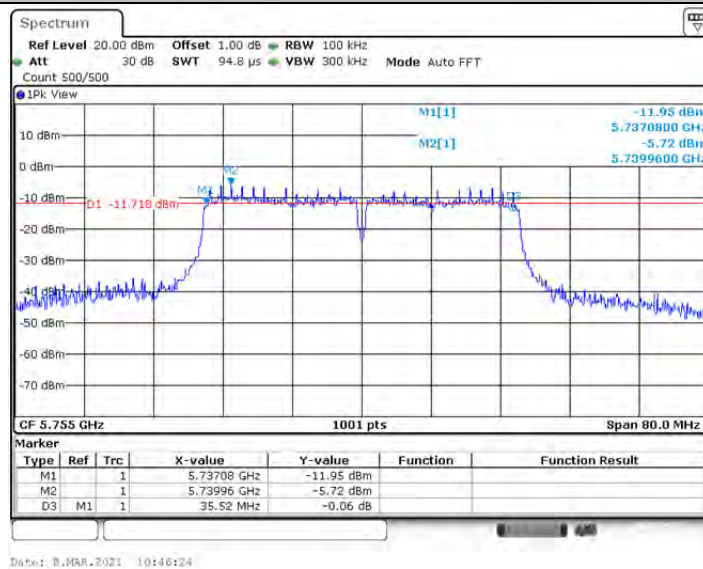
802.11ac(VHT20)_Ant1_5785



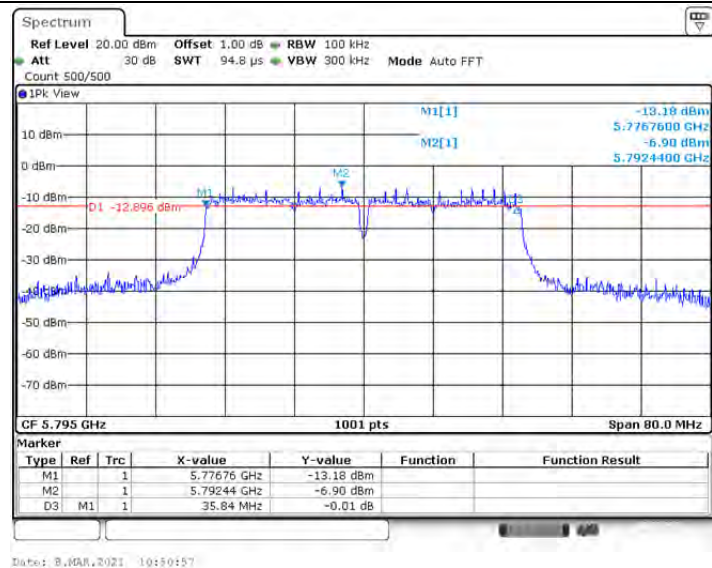
802.11ac(VHT20)_Ant1_5825



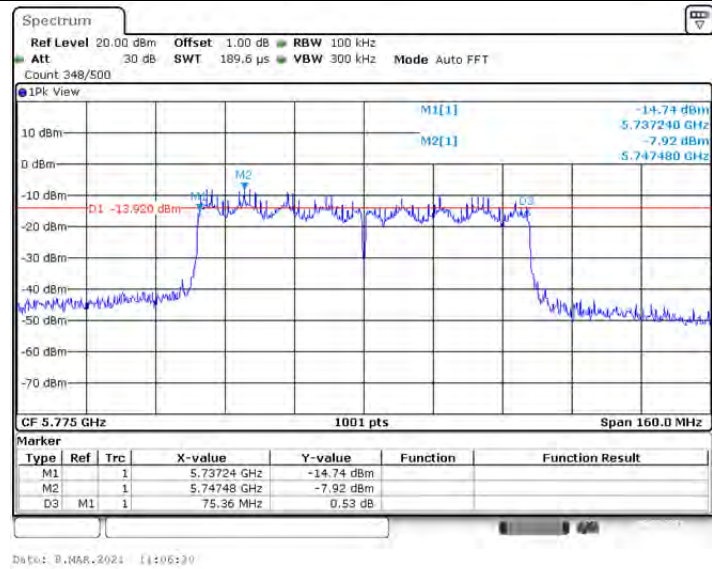
802.11ac(VHT40)_Ant1_5755



802.11ac(VHT40)_Ant1_5795



802.11ac(VHT80)_Ant1_5775



Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
802.11a	Ant1	5180	10.51	<=24	PASS
		5200	10.61	<=24	PASS
		5240	10.25	<=24	PASS
		5745	10.26	<=30	PASS
		5785	9.93	<=30	PASS
		5825	9.41	<=30	PASS
802.11n(HT20)	Ant1	5180	10.20	<=24	PASS
		5200	10.54	<=24	PASS
		5240	10.56	<=24	PASS
		5745	10.34	<=30	PASS
		5785	9.87	<=30	PASS
		5825	9.27	<=30	PASS
802.11n(HT40)	Ant1	5190	9.40	<=24	PASS
		5230	9.37	<=24	PASS
		5755	9.28	<=30	PASS
		5795	8.94	<=30	PASS
802.11ac(VHT20)	Ant1	5180	9.62	<=24	PASS
		5200	9.01	<=24	PASS
		5240	8.67	<=24	PASS
		5745	9.06	<=30	PASS
		5785	8.71	<=30	PASS
		5825	8.64	<=30	PASS
802.11ac(VHT40)	Ant1	5190	7.81	<=24	PASS
		5230	8.43	<=24	PASS
		5755	8.54	<=30	PASS
		5795	8.22	<=30	PASS
802.11ac(VHT80)	Ant1	5210	8.31	<=24	PASS
		5775	8.05	<=30	PASS

Note: Test results increased RF cable loss by 1dB.

The Duty Cycle Factor is compensated in the graph.

Appendix C: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
802.11a	Ant1	5180	7.20	<=11	PASS
		5200	7.20	<=11	PASS
		5240	6.18	<=11	PASS
		5745	2.71	<=30	PASS
		5785	2.90	<=30	PASS
		5825	2.43	<=30	PASS
802.11n(HT20)	Ant1	5180	6.20	<=11	PASS
		5200	7.04	<=11	PASS
		5240	6.56	<=11	PASS
		5745	2.97	<=30	PASS
		5785	2.61	<=30	PASS
		5825	1.35	<=30	PASS
802.11n(HT40)	Ant1	5190	1.65	<=11	PASS
		5230	2.36	<=11	PASS
		5755	-1.42	<=30	PASS
		5795	-2.33	<=30	PASS
802.11ac(VHT20)	Ant1	5180	6.15	<=11	PASS
		5200	5.1	<=11	PASS
		5240	4.71	<=11	PASS
		5745	1.10	<=30	PASS
		5785	1.20	<=30	PASS
		5825	1.05	<=30	PASS
802.11ac(VHT40)	Ant1	5190	0.23	<=11	PASS
		5230	1.44	<=11	PASS
		5755	-1.92	<=30	PASS
		5795	-2.30	<=30	PASS
802.11ac(VHT80)	Ant1	5210	-0.39	<=11	PASS
		5775	-4.46	<=30	PASS

Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

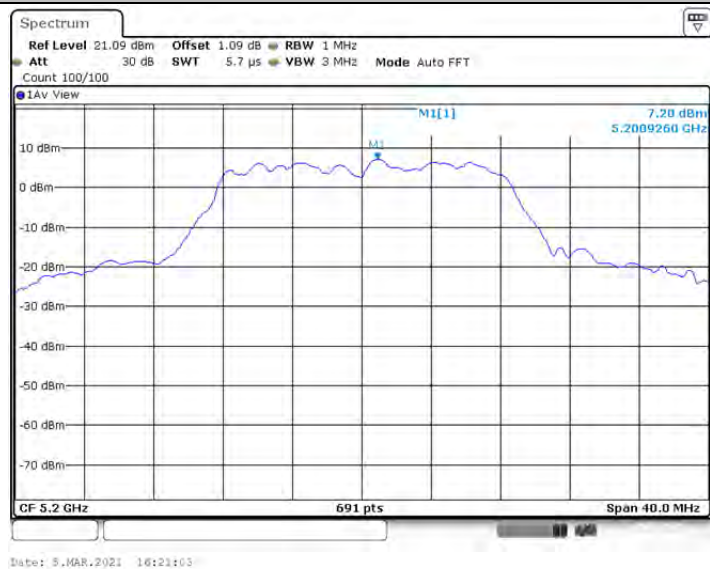
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

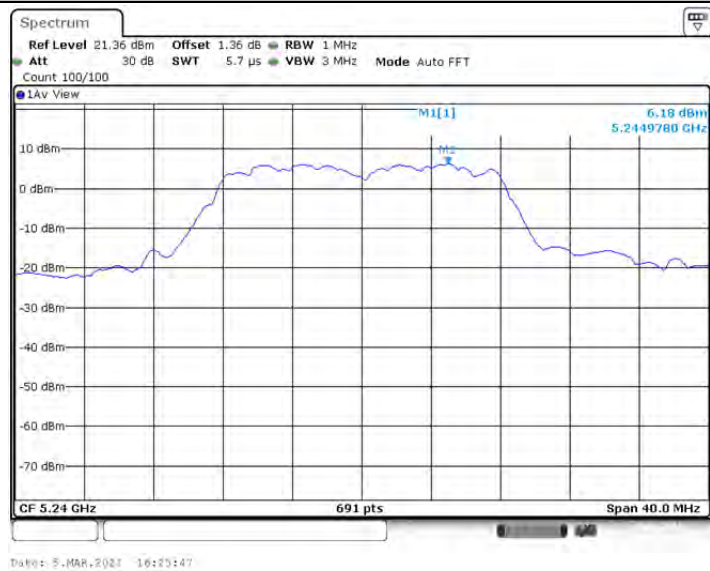
802.11a_Ant1_5180



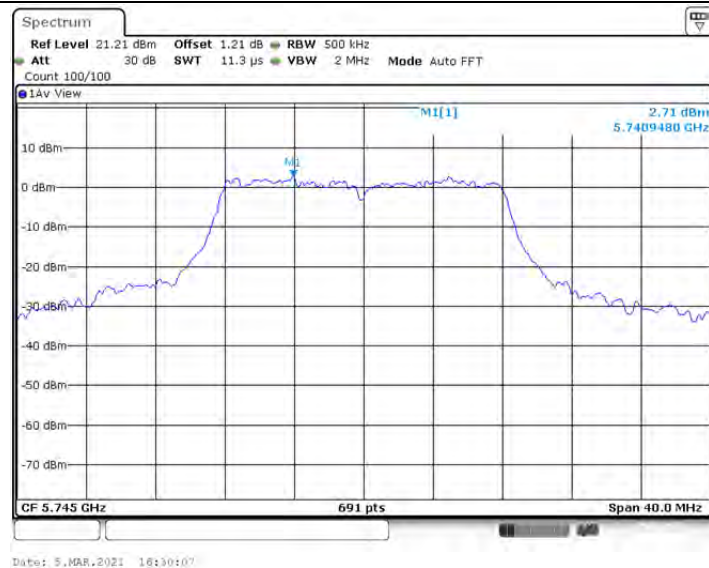
802.11a_Ant1_5200



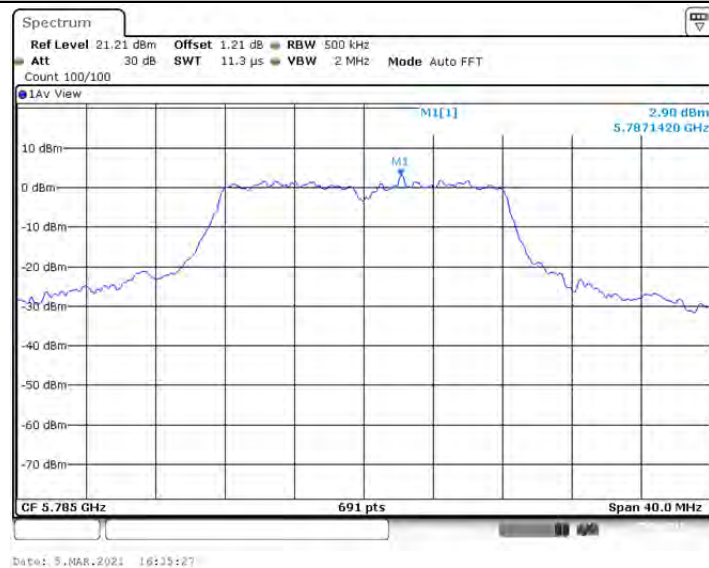
802.11a_Ant1_5240



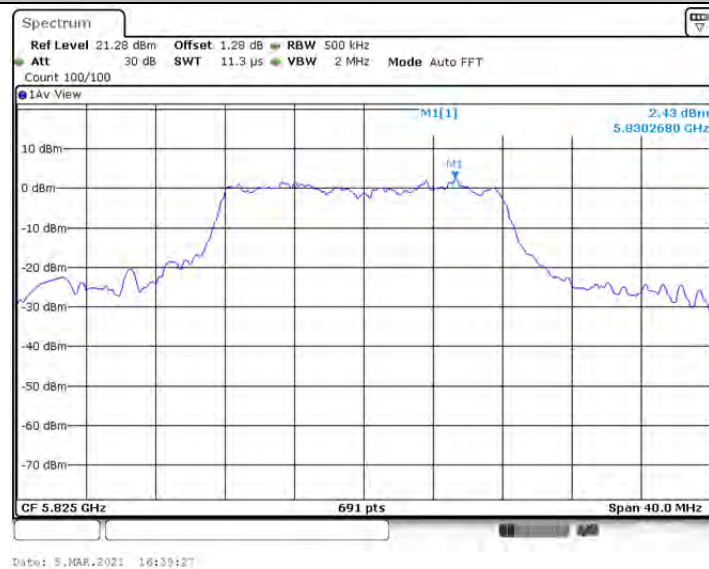
802.11a_Ant1_5745



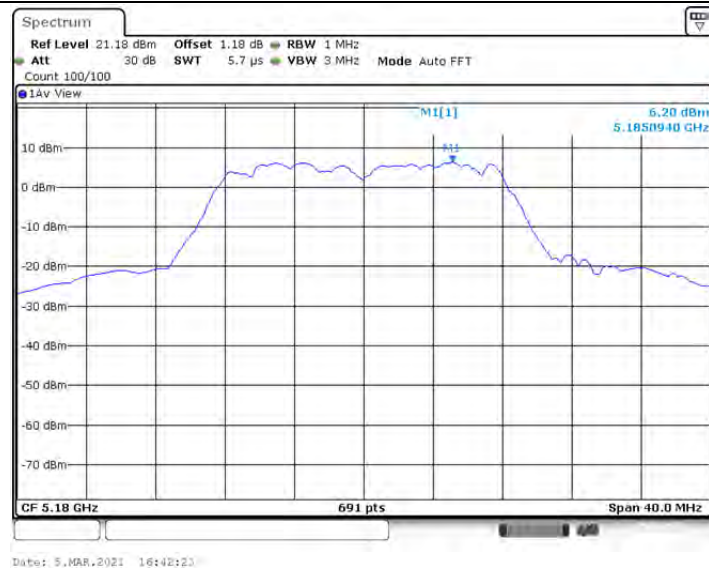
802.11a_Ant1_5785



802.11a_Ant1_5825



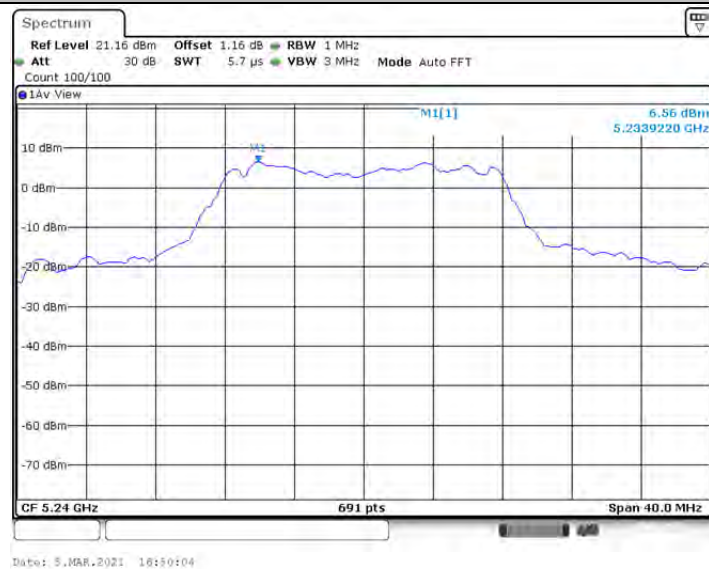
802.11n(HT20)_Ant1_5180



802.11n(HT20)_Ant1_5200



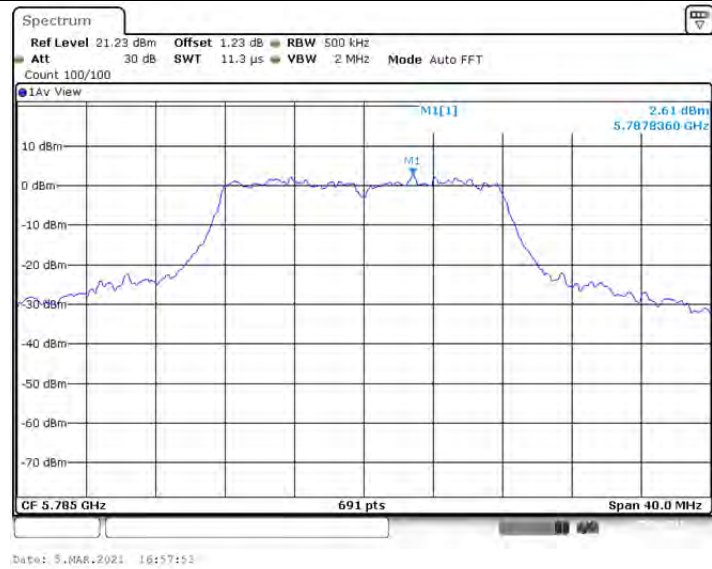
802.11n(HT20)_Ant1_5240



802.11n(HT20)_Ant1_5745



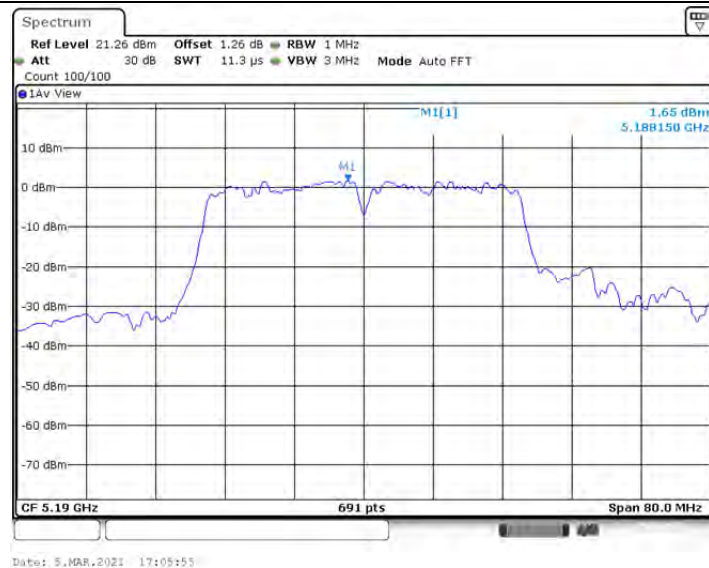
802.11n(HT20)_Ant1_5785



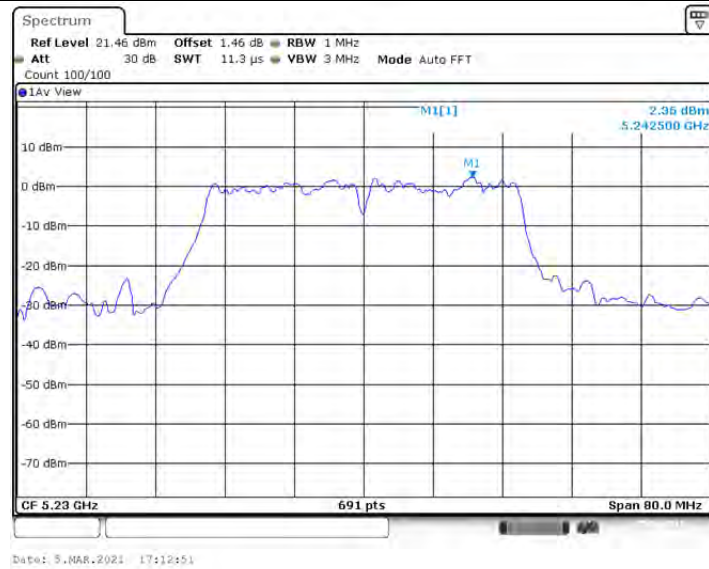
802.11n(HT20)_Ant1_5825



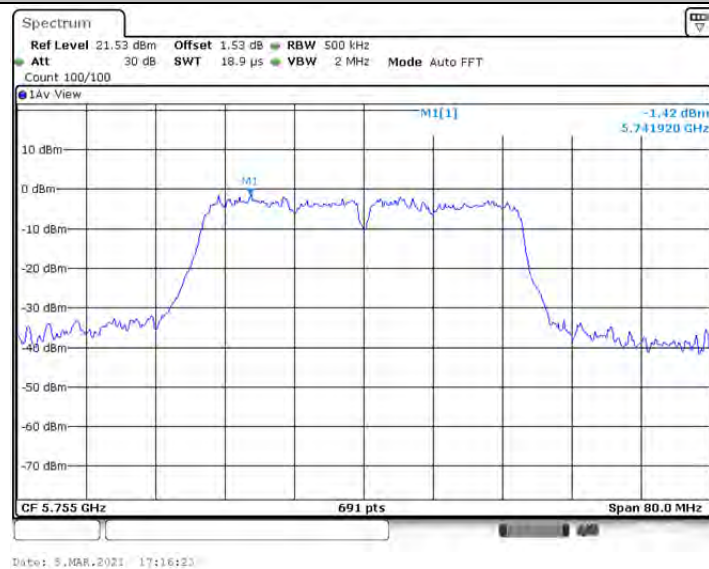
802.11n(HT40)_Ant1_5190



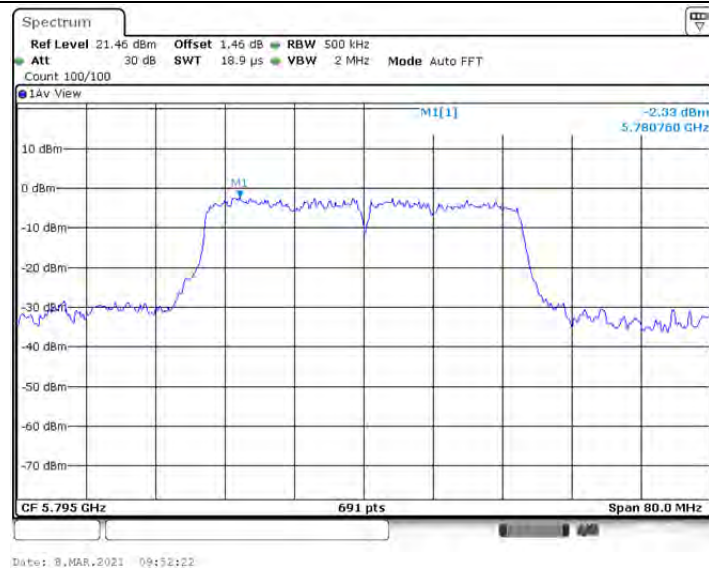
802.11n(HT40)_Ant1_5230



802.11n(HT40)_Ant1_5755



802.11n(HT40)_Ant1_5795



802.11ac(VHT20)_Ant1_5180



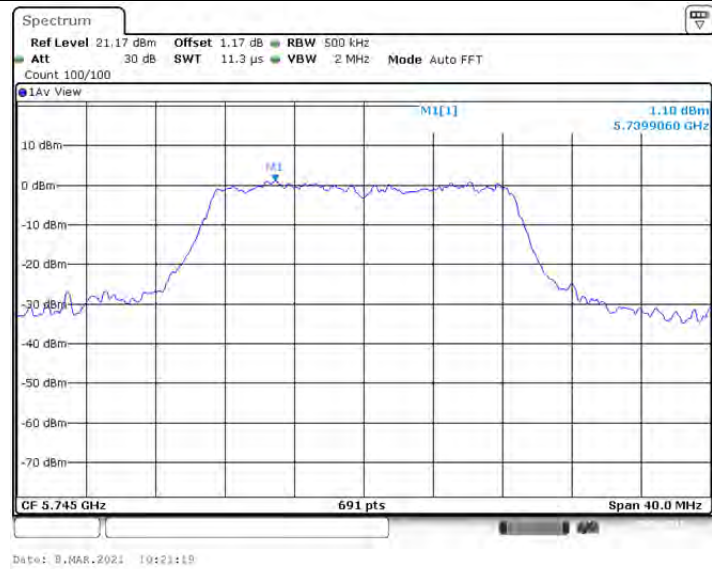
802.11ac(VHT20)_Ant1_5200



802.11ac(VHT20)_Ant1_5240



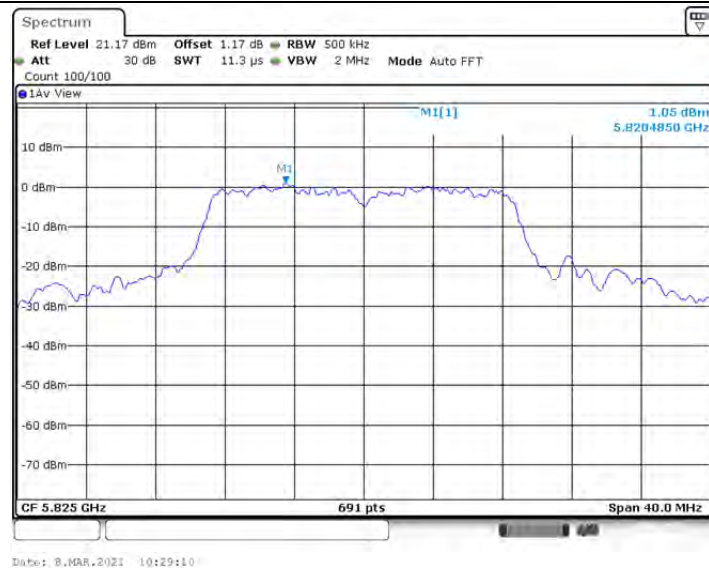
802.11ac(VHT20)_Ant1_5745



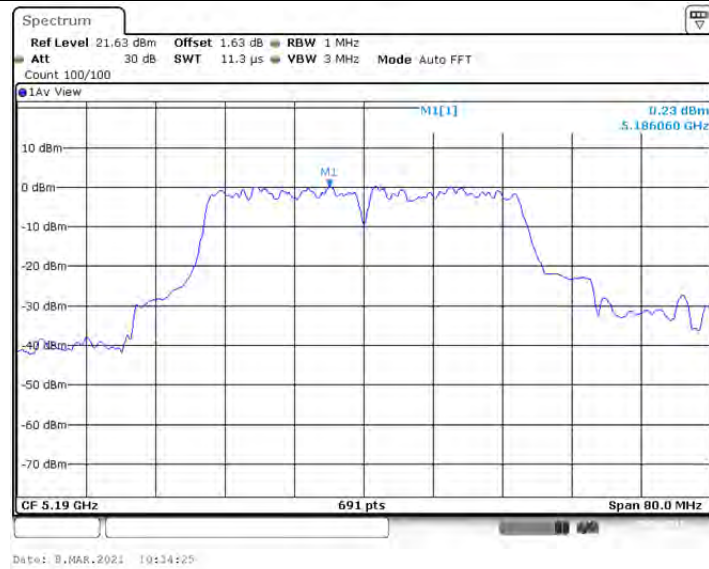
802.11ac(VHT20)_Ant1_5785



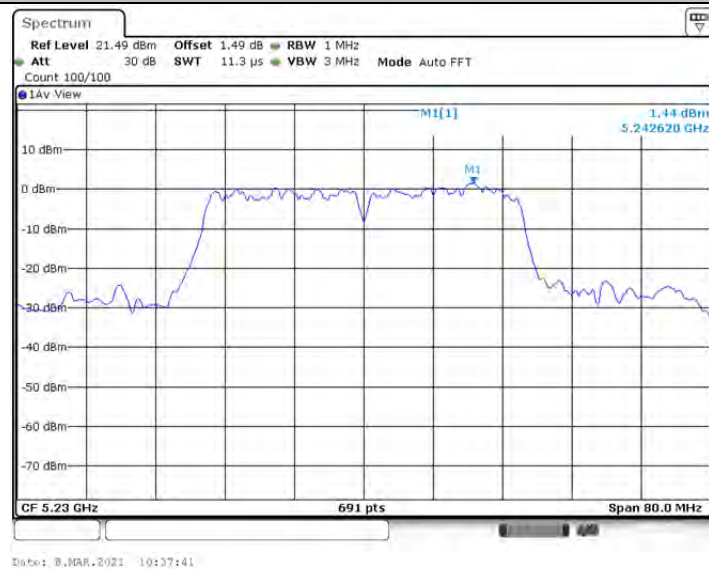
802.11ac(VHT20)_Ant1_5825



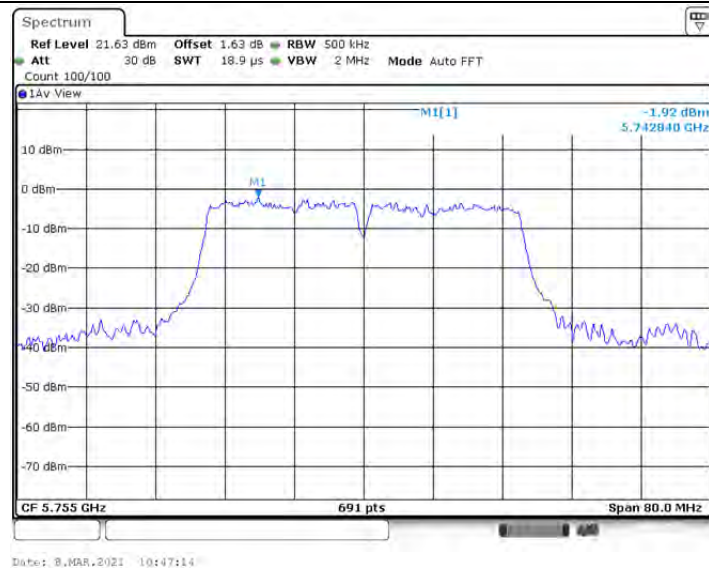
802.11ac(VHT40)_Ant1_5190



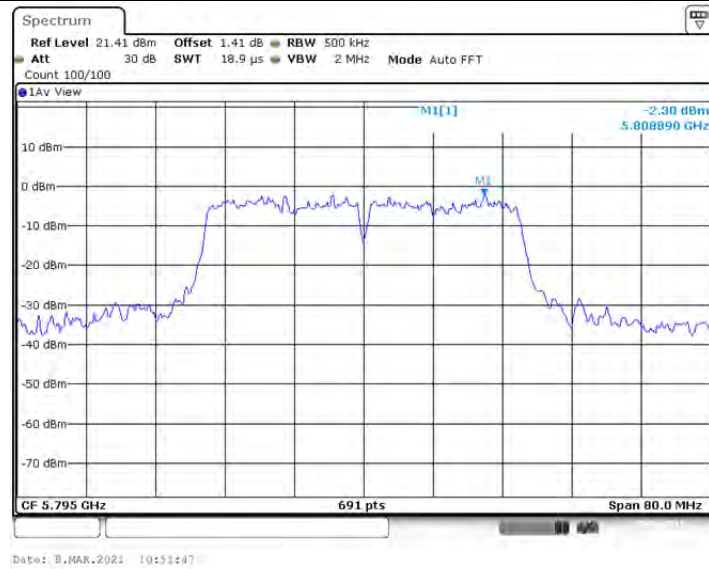
802.11ac(VHT40)_Ant1_5230



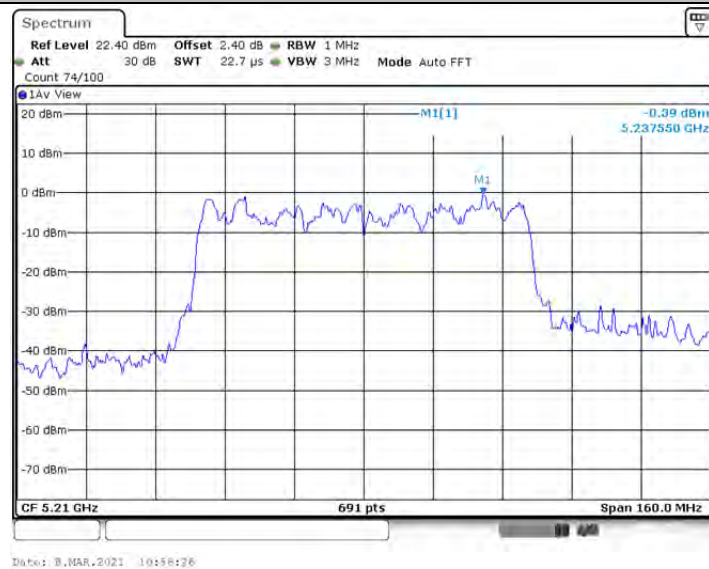
802.11ac(VHT40)_Ant1_5755



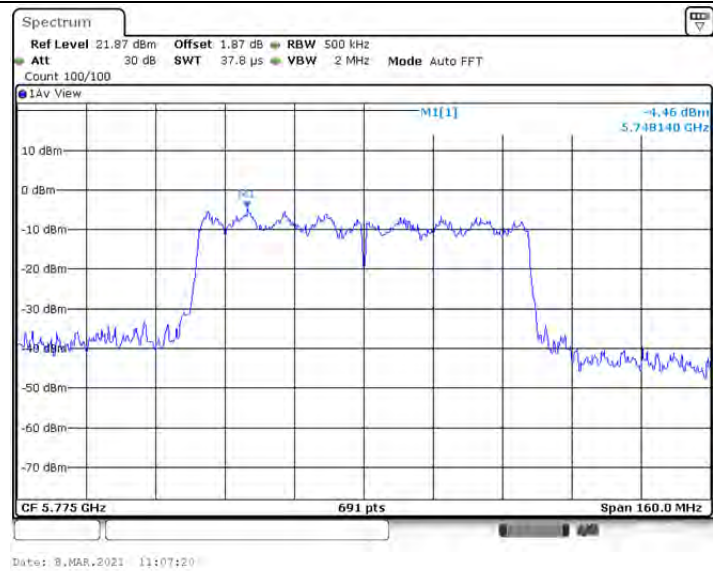
802.11ac(VHT40)_Ant1_5795



802.11ac(VHT80)_Ant1_5210



802.11ac(VHT80)_Ant1_5775



Appendix D: Frequency Stability

Test Result

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20MHz	Ant1	5180	NV	NT	-55900	-10.791506	± 20	PASS
			LV	NT	-55900	-10.791506	± 20	PASS
			HV	NT	-55900	-10.791506	± 20	PASS
		5200	NV	NT	-54900	-10.557692	± 20	PASS
			LV	NT	-55900	-10.750000	± 20	PASS
			HV	NT	-55900	-10.750000	± 20	PASS
		5240	NV	NT	-56900	-10.858779	± 20	PASS
			LV	NT	-55900	-10.667939	± 20	PASS
			HV	NT	-55900	-10.667939	± 20	PASS
		5745	NV	NT	-61900	-10.774587	± 20	PASS
			LV	NT	-60900	-10.600522	± 20	PASS
			HV	NT	-60900	-10.600522	± 20	PASS
		5785	NV	NT	-60900	-10.527226	± 20	PASS
			LV	NT	-60900	-10.527226	± 20	PASS
			HV	NT	-60900	-10.527226	± 20	PASS
		5825	NV	NT	-62900	-10.798283	± 20	PASS
			LV	NT	-60900	-10.454936	± 20	PASS
			HV	NT	-60900	-10.454936	± 20	PASS
40MHz	Ant1	5190	NV	NT	-50900	-9.807322	± 20	PASS
			LV	NT	-51900	-10.000000	± 20	PASS
			HV	NT	-52900	-10.192678	± 20	PASS
		5230	NV	NT	-55900	-10.688337	± 20	PASS
			LV	NT	-54900	-10.497132	± 20	PASS
			HV	NT	-54900	-10.497132	± 20	PASS
		5755	NV	NT	-61900	-10.755864	± 20	PASS
			LV	NT	-60900	-10.582103	± 20	PASS
			HV	NT	-60900	-10.582103	± 20	PASS
		5795	NV	NT	-61900	-10.681622	± 20	PASS
			LV	NT	-60900	-10.509060	± 20	PASS
			HV	NT	-59900	-10.336497	± 20	PASS
80MHz	Ant1	5210	NV	NT	-55900	-10.729367	± 20	PASS
			LV	NT	-55900	-10.729367	± 20	PASS
			HV	NT	-55900	-10.729367	± 20	PASS
		5775	NV	NT	-60900	-10.545455	± 20	PASS
			LV	NT	-59900	-10.372294	± 20	PASS
			HV	NT	-59900	-10.372294	± 20	PASS

Temperature								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20MHz	Ant1	5180	NV	-10	-55900	-10.791506	±20	PASS
			NV	0	-55900	-10.791506	±20	PASS
			NV	10	-55900	-10.791506	±20	PASS
			NV	20	-55900	-10.791506	±20	PASS
			NV	30	-55900	-10.791506	±20	PASS
			NV	40	-55900	-10.791506	±20	PASS
			NV	50	-55900	-10.791506	±20	PASS
		5200	NV	-10	-55900	-10.750000	±20	PASS
			NV	0	-55900	-10.750000	±20	PASS
			NV	10	-55900	-10.750000	±20	PASS
			NV	20	-55900	-10.750000	±20	PASS
			NV	30	-55900	-10.750000	±20	PASS
			NV	40	-55900	-10.750000	±20	PASS
			NV	50	-55900	-10.750000	±20	PASS
		5240	NV	-10	-55900	-10.667939	±20	PASS
			NV	0	-55900	-10.667939	±20	PASS
			NV	10	-55900	-10.667939	±20	PASS
			NV	20	-55900	-10.667939	±20	PASS
			NV	30	-55900	-10.667939	±20	PASS
			NV	40	-55900	-10.667939	±20	PASS
			NV	50	-55900	-10.667939	±20	PASS
		5745	NV	-10	-60900	-10.600522	±20	PASS
			NV	0	-60900	-10.600522	±20	PASS
			NV	10	-60900	-10.600522	±20	PASS
			NV	20	-60900	-10.600522	±20	PASS
			NV	30	-60900	-10.600522	±20	PASS
			NV	40	-60900	-10.600522	±20	PASS
			NV	50	-60900	-10.600522	±20	PASS
		5785	NV	-10	-60900	-10.527226	±20	PASS
			NV	0	-60900	-10.527226	±20	PASS
			NV	10	-60900	-10.527226	±20	PASS
			NV	20	-60900	-10.527226	±20	PASS
			NV	30	-60900	-10.527226	±20	PASS
			NV	40	-60900	-10.527226	±20	PASS
			NV	50	-60900	-10.527226	±20	PASS
		5825	NV	-10	-60900	-10.454936	±20	PASS
			NV	0	-61900	-10.626609	±20	PASS
			NV	10	-60900	-10.454936	±20	PASS
			NV	20	-60900	-10.454936	±20	PASS
			NV	30	-60900	-10.454936	±20	PASS
			NV	40	-60900	-10.454936	±20	PASS
			NV	50	-61900	-10.626609	±20	PASS
40MHz	Ant1	5190	NV	-10	-53900	-10.385356	±20	PASS

			NV	0	-53900	-10.385356	±20	PASS
			NV	10	-54900	-10.578035	±20	PASS
			NV	20	-54900	-10.578035	±20	PASS
			NV	30	-54900	-10.578035	±20	PASS
			NV	40	-54900	-10.578035	±20	PASS
			NV	50	-54900	-10.578035	±20	PASS
		5230	NV	-10	-54900	-10.497132	±20	PASS
			NV	0	-54900	-10.497132	±20	PASS
			NV	10	-54900	-10.497132	±20	PASS
			NV	20	-54900	-10.497132	±20	PASS
			NV	30	-54900	-10.497132	±20	PASS
			NV	40	-54900	-10.497132	±20	PASS
			NV	50	-54900	-10.497132	±20	PASS
		5755	NV	-10	-59900	-10.408341	±20	PASS
			NV	0	-59900	-10.408341	±20	PASS
			NV	10	-59900	-10.408341	±20	PASS
			NV	20	-59900	-10.408341	±20	PASS
			NV	30	-60900	-10.582103	±20	PASS
			NV	40	-59900	-10.408341	±20	PASS
			NV	50	-59900	-10.408341	±20	PASS
		5795	NV	-10	-60900	-10.509060	±20	PASS
			NV	0	-59900	-10.336497	±20	PASS
			NV	10	-59900	-10.336497	±20	PASS
			NV	20	-60900	-10.509060	±20	PASS
			NV	30	-59900	-10.336497	±20	PASS
			NV	40	-59900	-10.336497	±20	PASS
			NV	50	-59900	-10.336497	±20	PASS
80MHz	Ant1	5210	NV	-10	-55900	-10.729367	±20	PASS
			NV	0	-55900	-10.729367	±20	PASS
			NV	10	-55900	-10.729367	±20	PASS
			NV	20	-55900	-10.729367	±20	PASS
			NV	30	-55900	-10.729367	±20	PASS
			NV	40	-55900	-10.729367	±20	PASS
			NV	50	-55900	-10.729367	±20	PASS
		5775	NV	-10	-59900	-10.372294	±20	PASS
			NV	0	-59900	-10.372294	±20	PASS
			NV	10	-59900	-10.372294	±20	PASS
			NV	20	-59900	-10.372294	±20	PASS
			NV	30	-59900	-10.372294	±20	PASS
			NV	40	-59900	-10.372294	±20	PASS
			NV	50	-59900	-10.372294	±20	PASS

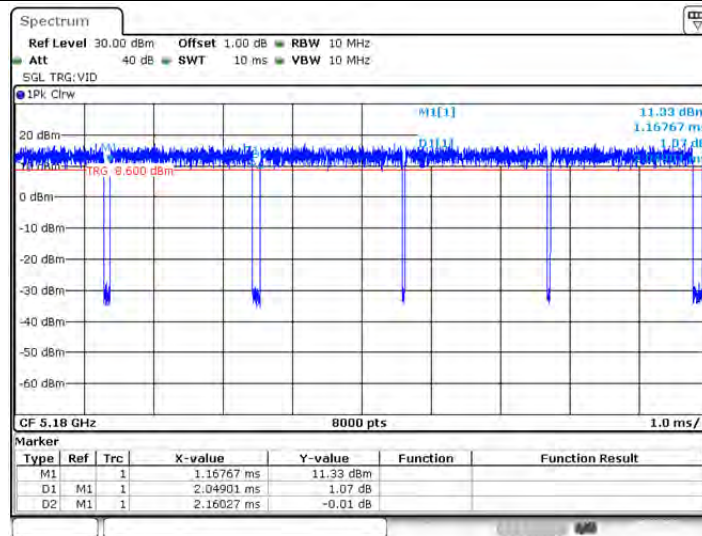
Appendix E: Duty Cycle

Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
802.11a	Ant1	5180	2.05	2.16	94.85	0.49	1
		5200	2.05	2.09	98.03	0.49	1
		5240	2.05	2.22	92.13	0.49	1
		5745	2.05	2.15	95.24	0.49	1
		5785	2.05	2.15	95.24	0.49	1
		5825	2.05	2.19	93.66	0.49	1
802.11n(HT20)	Ant1	5180	2.05	2.13	96.02	0.49	1
		5200	2.05	2.13	96.41	0.49	1
		5240	2.05	2.12	96.47	0.49	1
		5745	2.05	2.21	92.91	0.49	1
		5785	2.05	2.16	94.85	0.49	1
		5825	2.05	2.14	95.62	0.49	1
802.11n(HT40)	Ant1	5190	0.94	0.99	94.21	0.46	3
		5230	0.94	1.04	90.01	0.46	3
		5755	0.94	1.06	88.52	0.46	3
		5795	0.94	1.04	90.01	0.46	3
802.11ac(VHT20)	Ant1	5180	1.92	1.97	97.46	0.52	1
		5200	1.92	1.98	96.66	0.52	1
		5240	1.92	2.02	94.93	0.52	1
		5745	1.92	1.99	96.18	0.52	1
		5785	1.92	1.99	96.18	0.52	1
		5825	1.92	1.99	96.18	0.52	1
802.11ac(VHT40)	Ant1	5190	0.94	1.09	86.48	1.06	3
		5230	0.94	1.06	89.35	1.06	3
		5755	0.94	1.09	86.48	1.06	3
		5795	0.94	1.04	90.96	1.06	3
802.11ac(VHT80)	Ant1	5210	0.46	0.63	72.37	2.17	10
		5775	0.46	0.56	81.84	2.17	10

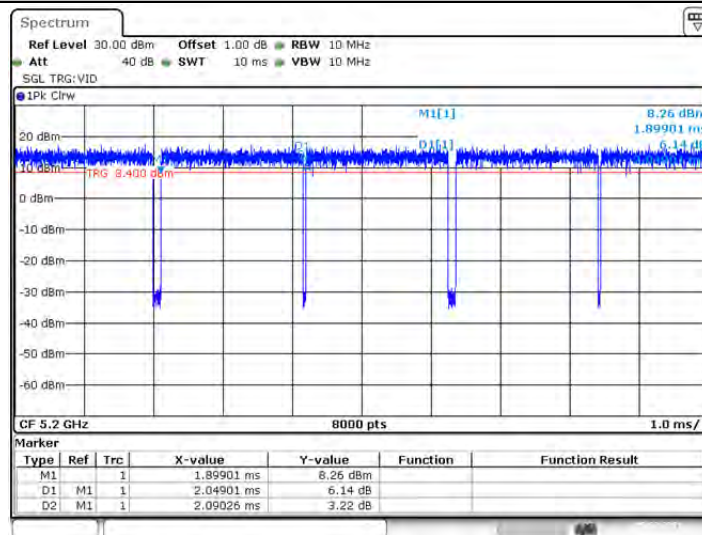
Test Graphs

802.11a_Ant1_5180



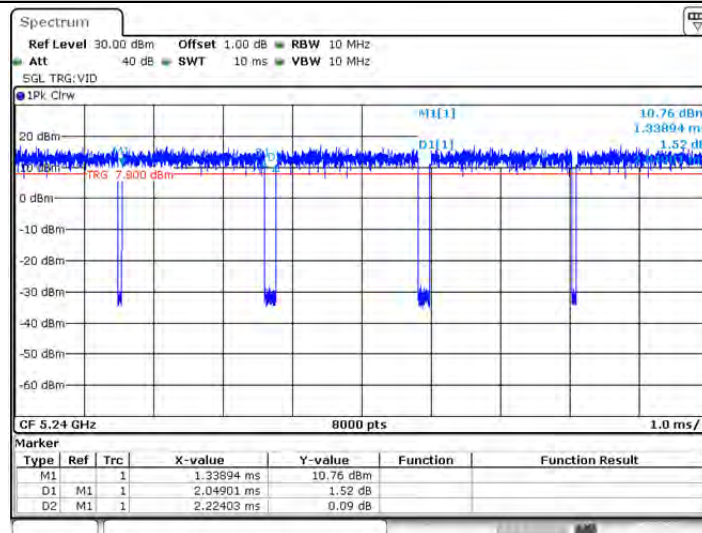
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802.11a_Ant1_5200



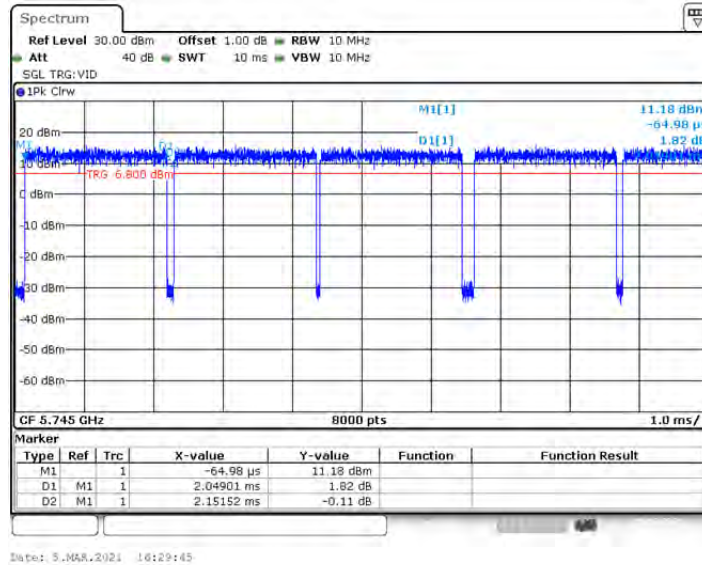
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802.11a_Ant1_5240

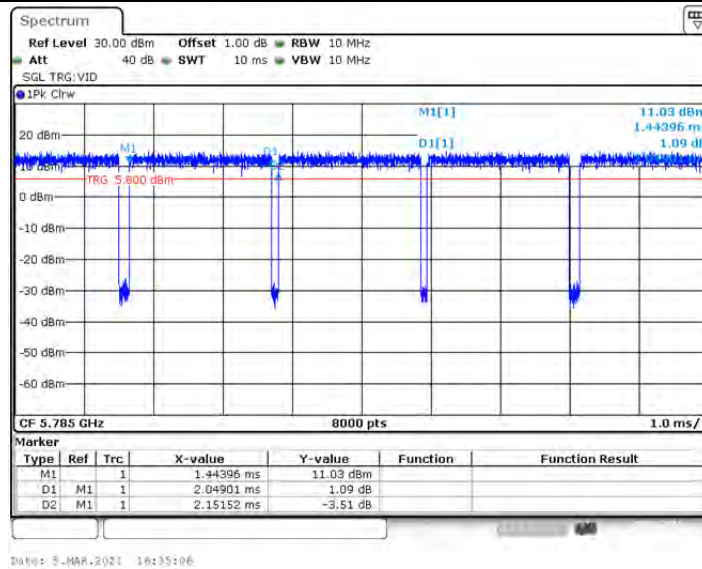


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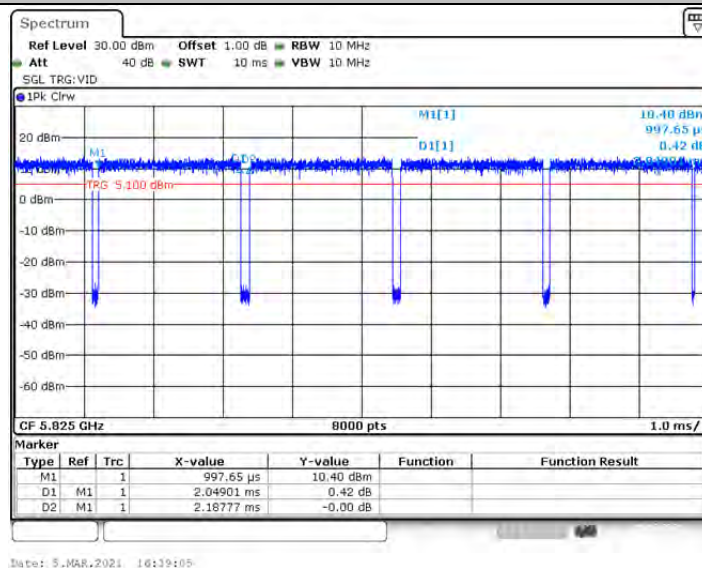
802.11a_Ant1_5745



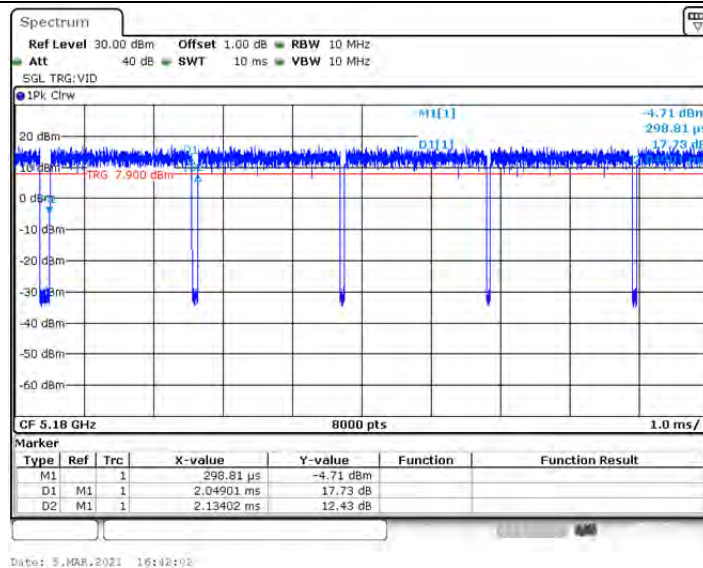
802.11a_Ant1_5785



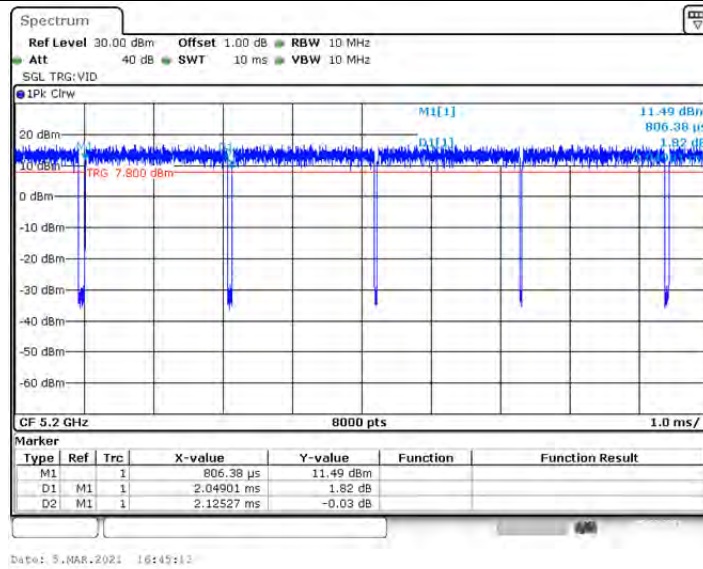
802.11a_Ant1_5825



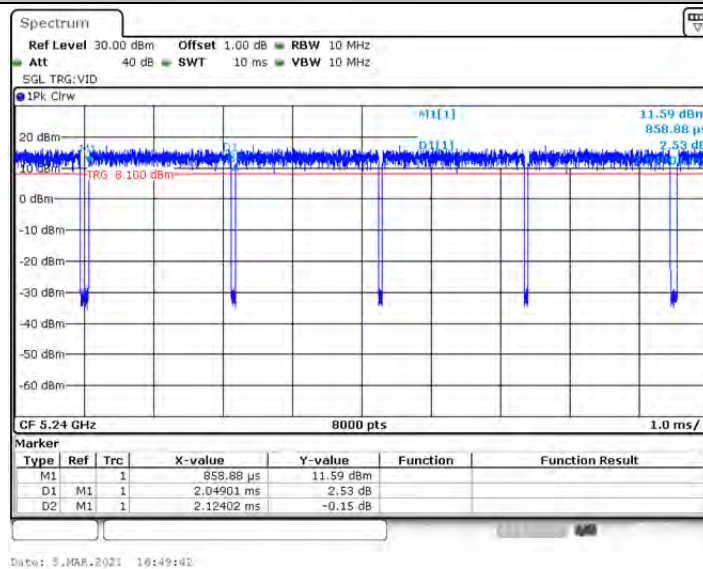
802.11n(HT20)_Ant1_5180



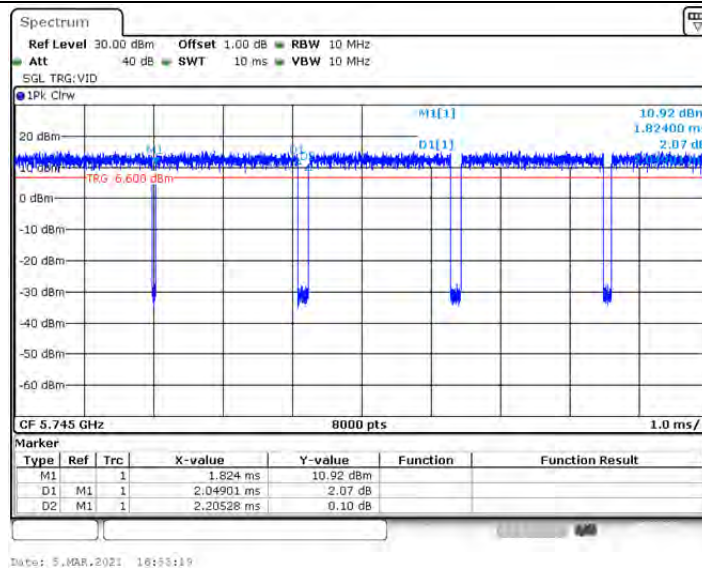
802.11n(HT20)_Ant1_5200



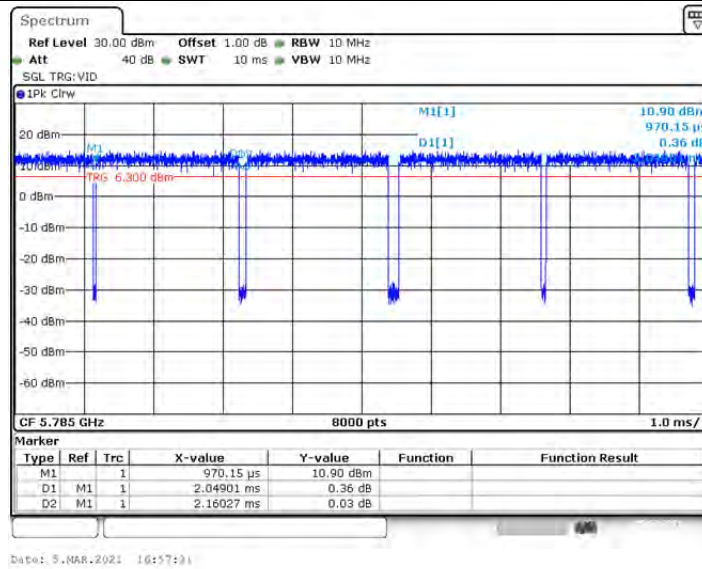
802.11n(HT20)_Ant1_5240



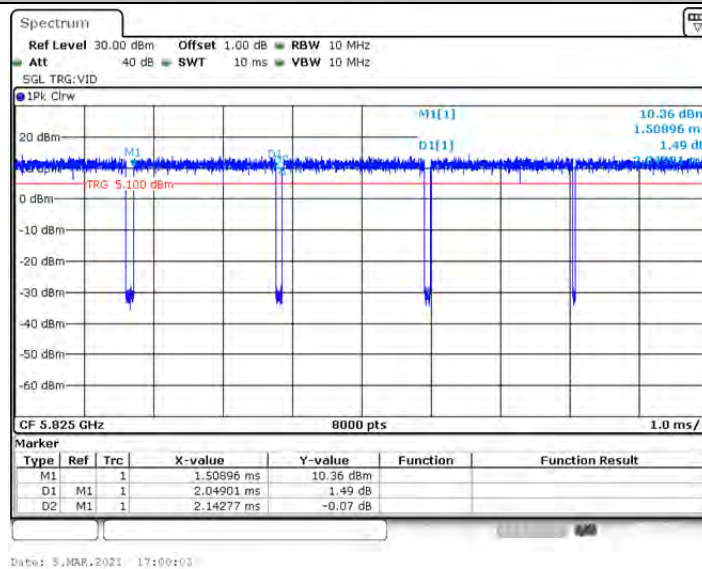
802.11n(HT20)_Ant1_5745



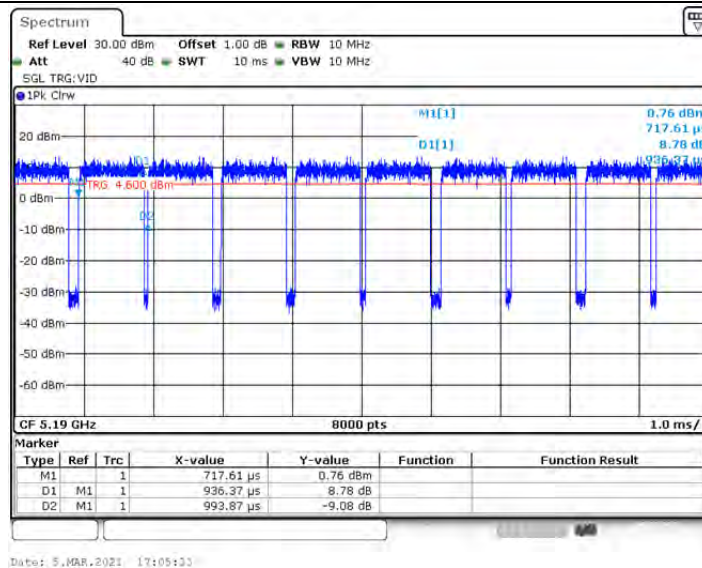
802.11n(HT20)_Ant1_5785



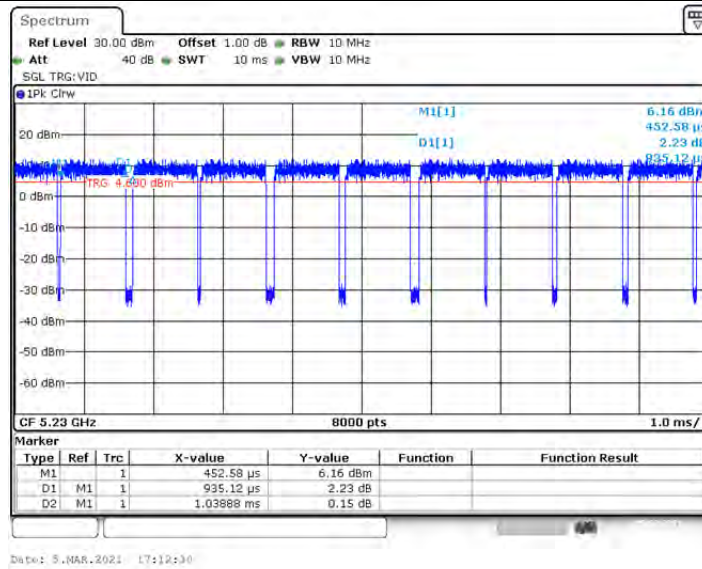
802.11n(HT20)_Ant1_5825



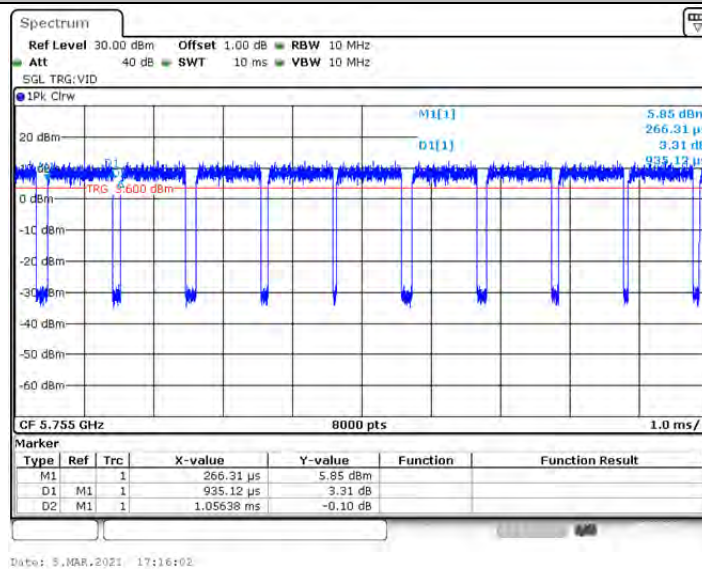
802.11n(HT40)_Ant1_5190



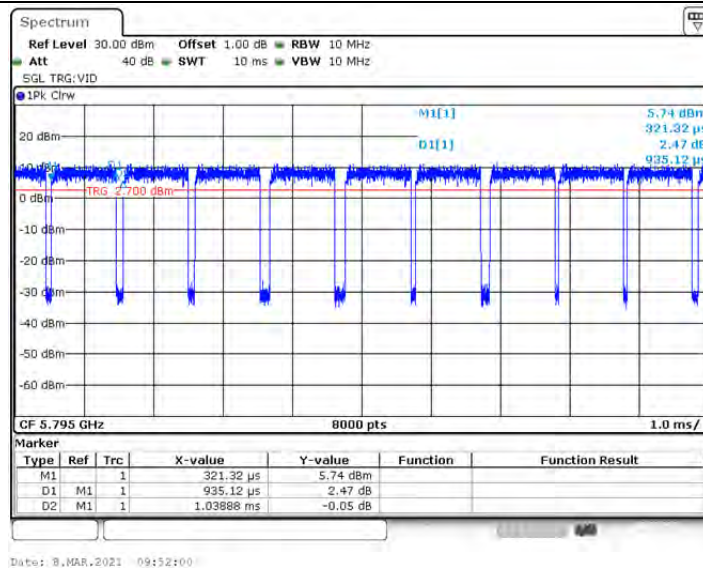
802.11n(HT40)_Ant1_5230



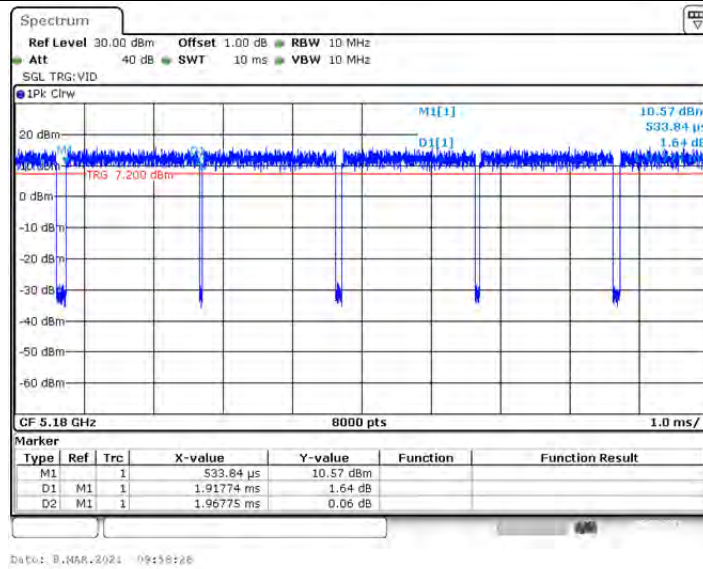
802.11n(HT40)_Ant1_5755



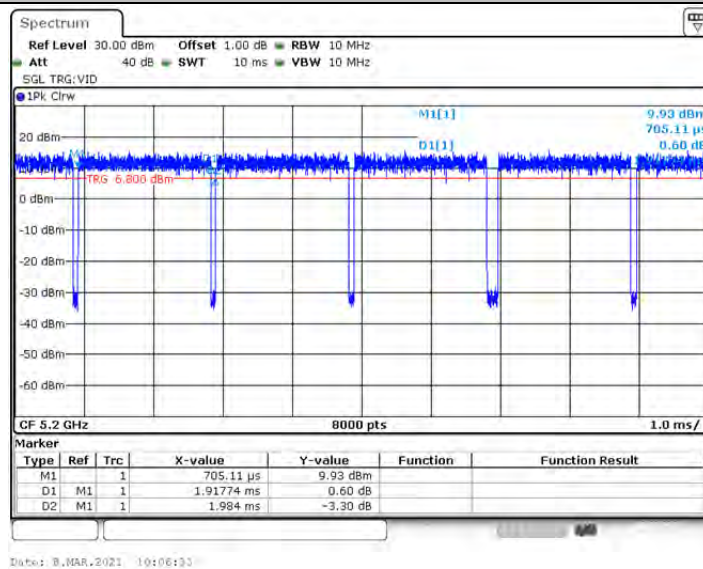
802.11n(HT40)_Ant1_5795



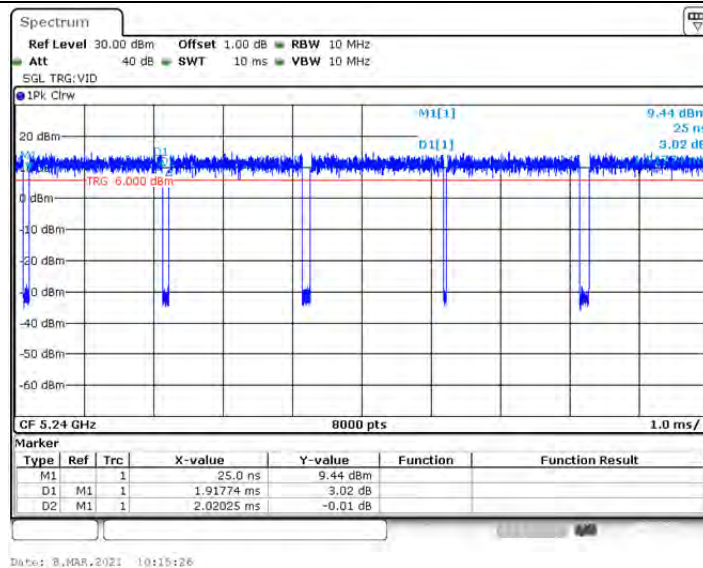
802.11ac(VHT20)_Ant1_5180



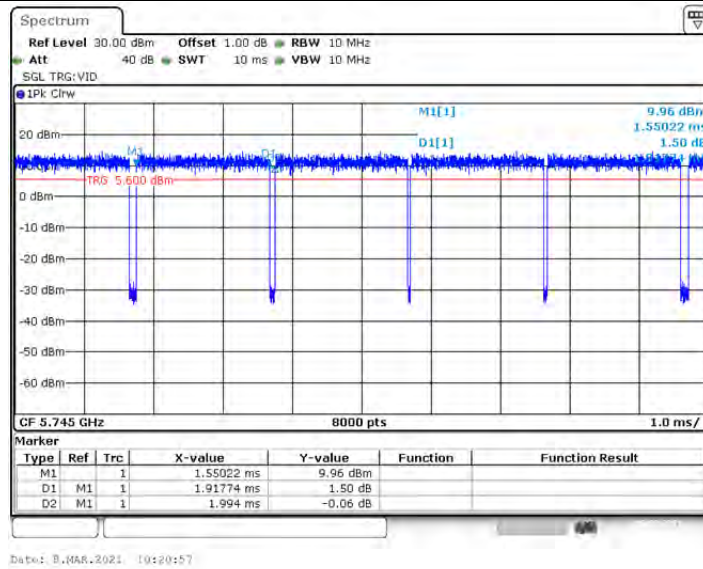
802.11ac(VHT20)_Ant1_5200



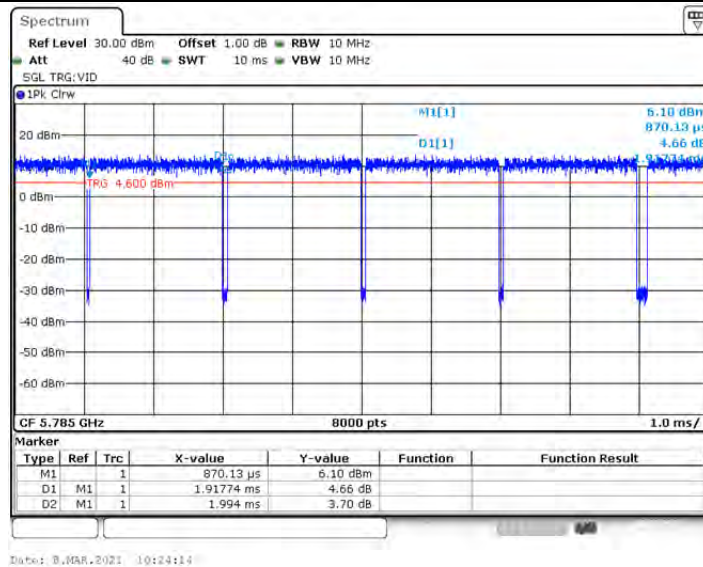
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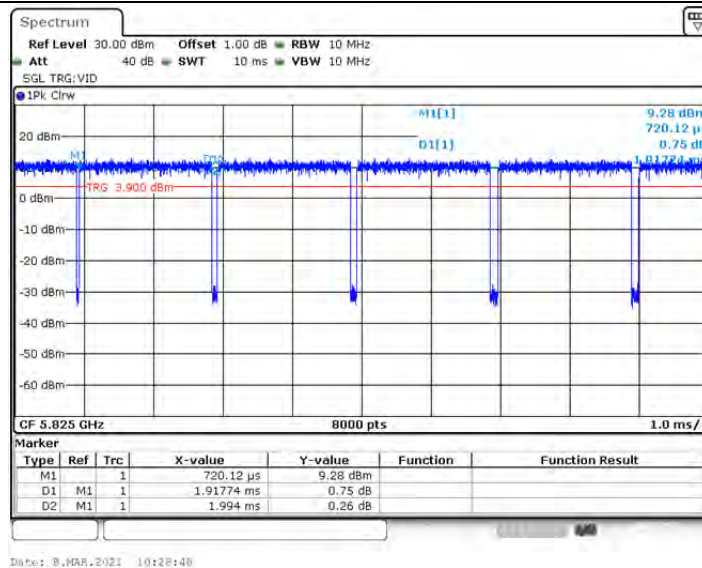
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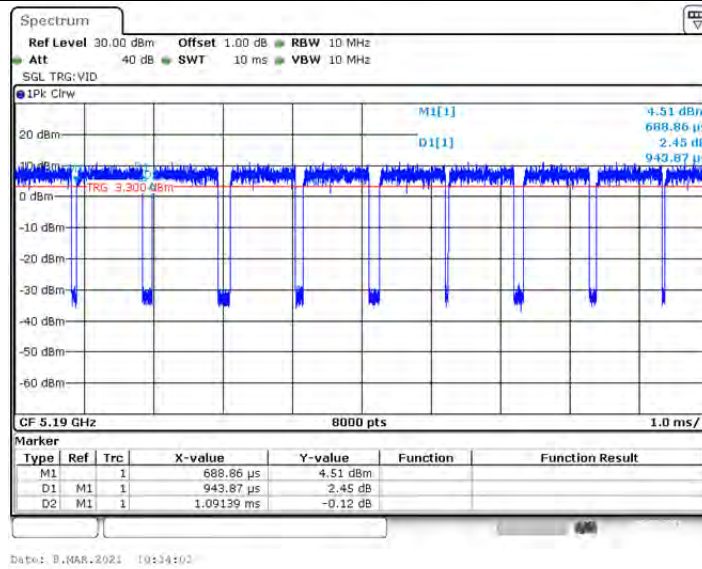
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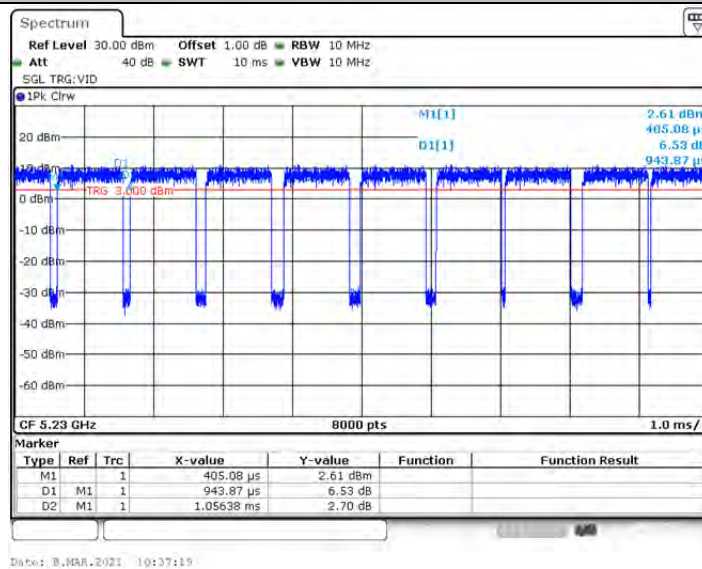
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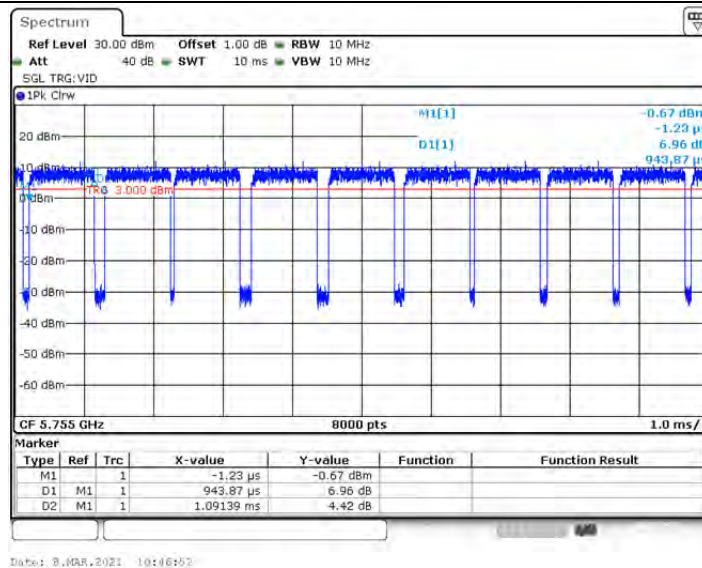
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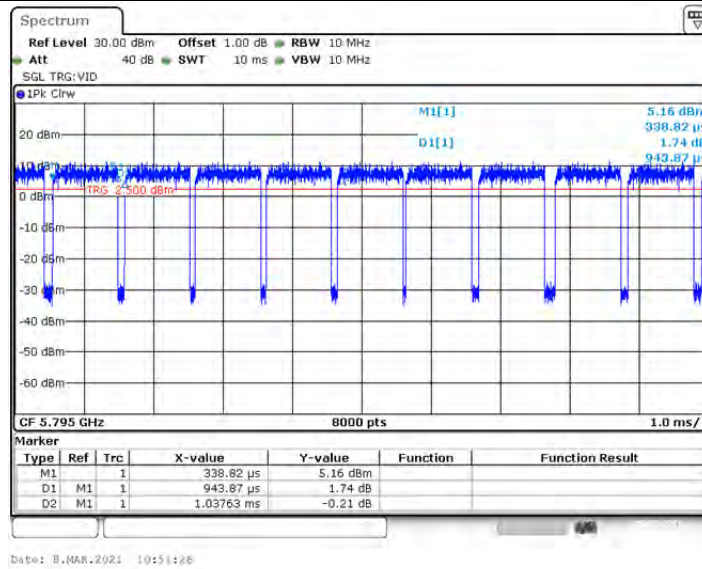
802.11ac(VHT40)_Ant1_5230



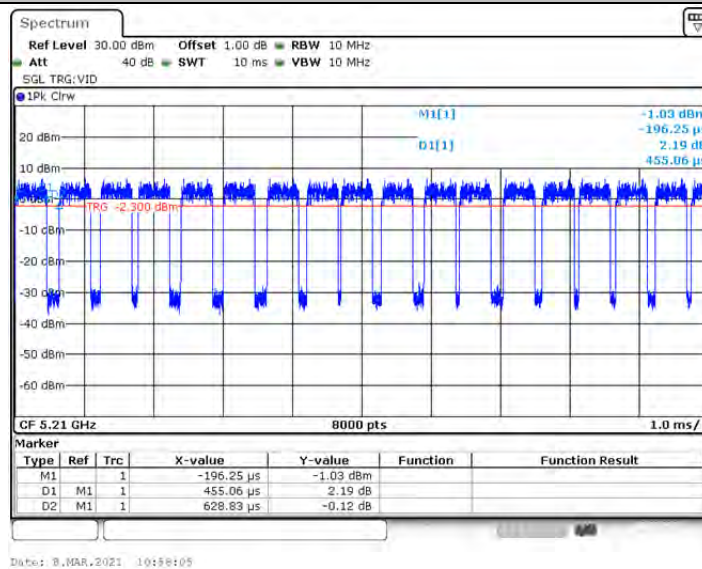
802.11ac(VHT40)_Ant1_5755



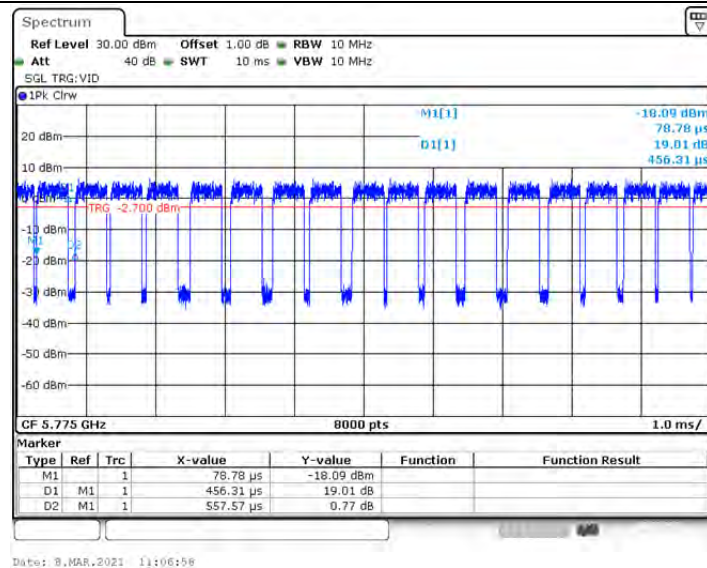
802.11ac(VHT40)_Ant1_5795



802.11ac(VHT80)_Ant1_5210



802.11ac(VHT80)_Ant1_5775



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