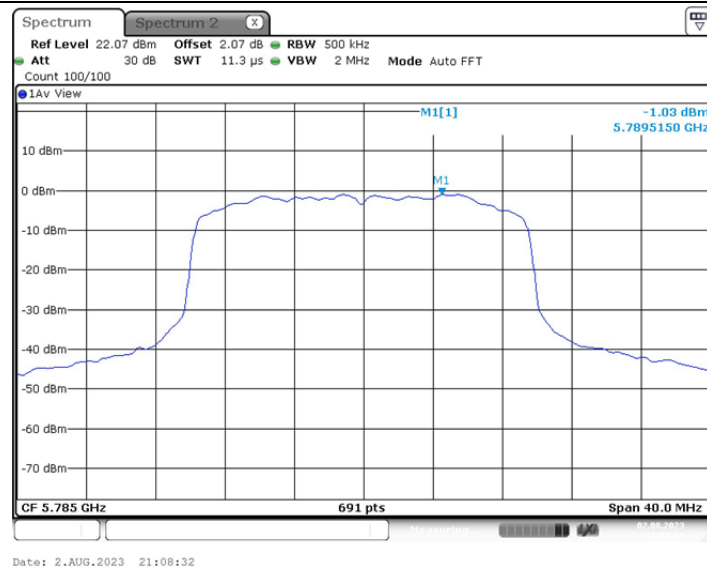
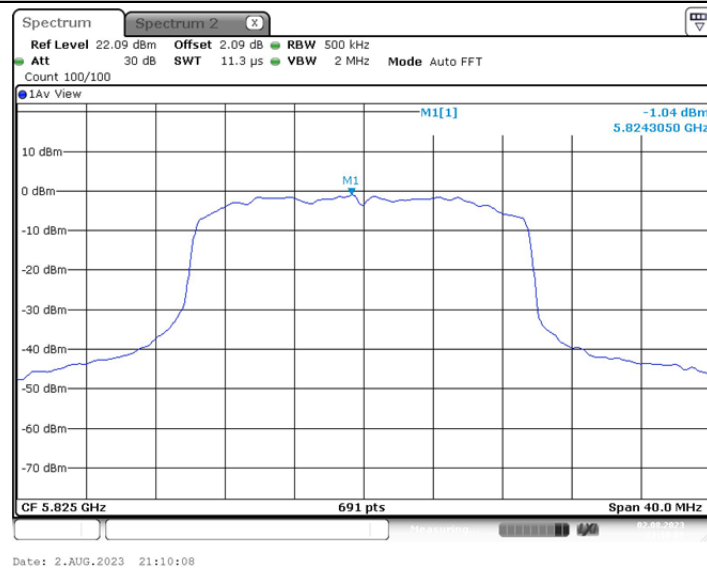
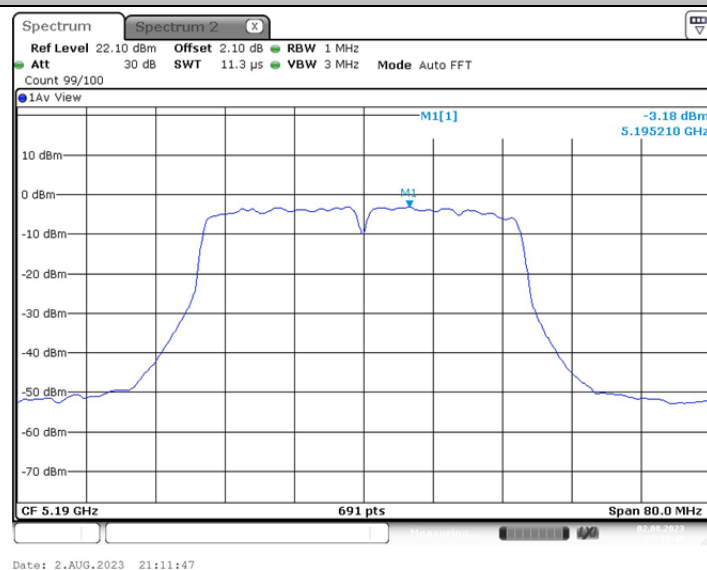




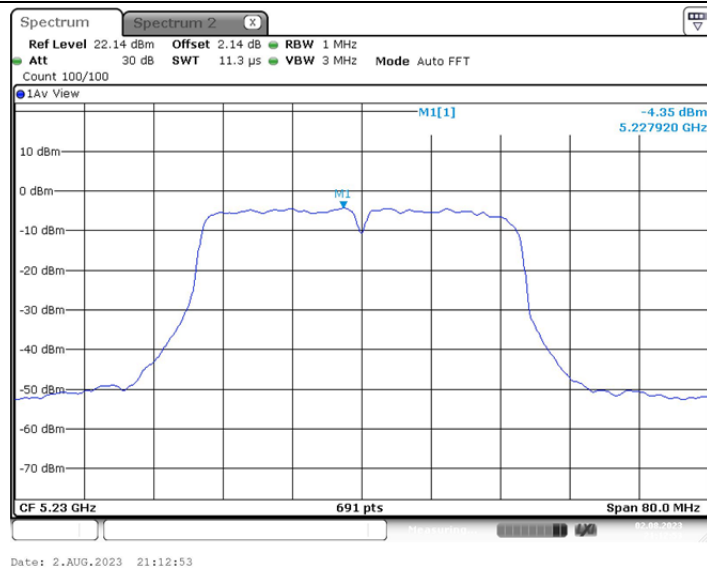
802.11ax(HE20)_5825



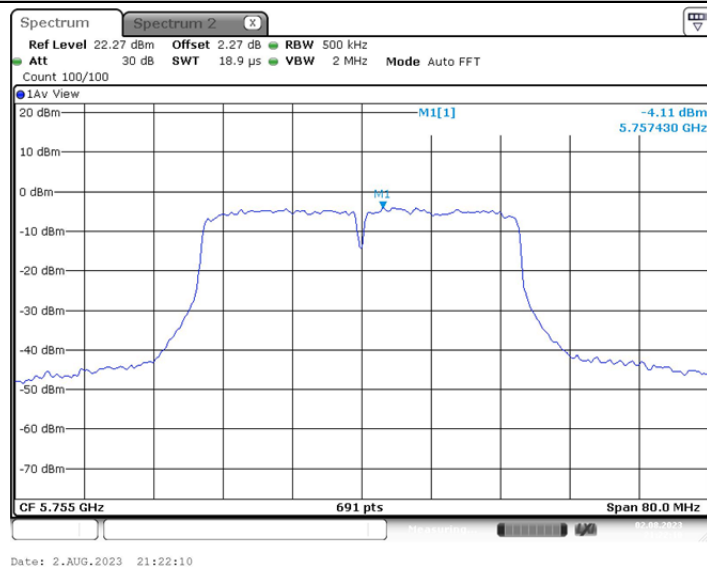
802.11ax(HE40)_5190



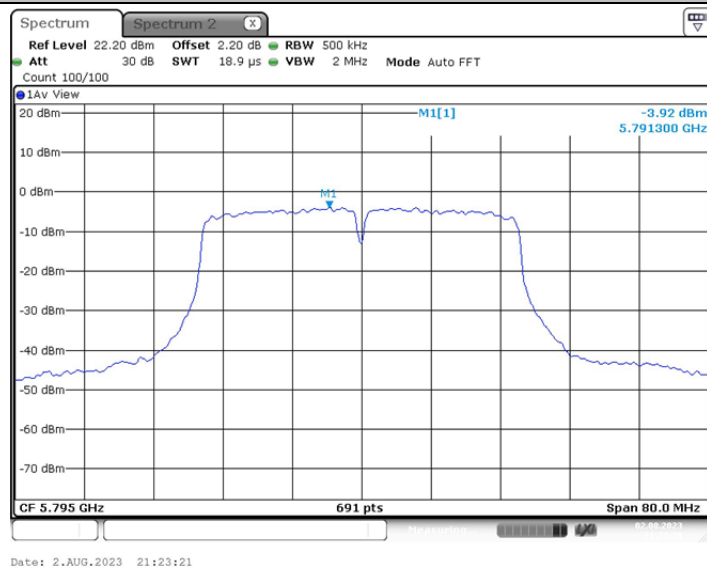
802.11ax(HE40)_5230



802.11ax(HE40)_5755



802.11ax(HE40)_5795



Appendix D: Frequency Stability

Test Result

Voltage							
Test Mode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20MHz	5180	NV	NT	-4000	-0.772201	20	PASS
		LV	NT	-9000	-1.737452	20	PASS
		HV	NT	-13000	-2.509653	20	PASS
	5200	NV	NT	-20000	-3.846154	20	PASS
		LV	NT	-18000	-3.461538	20	PASS
		HV	NT	-18000	-3.461538	20	PASS
	5240	NV	NT	-14000	-2.671756	20	PASS
		LV	NT	-15000	-2.862595	20	PASS
		HV	NT	-15000	-2.862595	20	PASS
	5745	NV	NT	-9000	-1.56658	20	PASS
		LV	NT	-13000	-2.262837	20	PASS
		HV	NT	-14000	-2.436902	20	PASS
	5785	NV	NT	-15000	-2.592913	20	PASS
		LV	NT	-15000	-2.592913	20	PASS
		HV	NT	-16000	-2.765774	20	PASS
	5825	NV	NT	7000	1.201717	20	PASS
		LV	NT	0	0	20	PASS
		HV	NT	-5000	-0.858369	20	PASS
40MHz	5190	NV	NT	-11000	-2.119461	20	PASS
		LV	NT	-11000	-2.119461	20	PASS
		HV	NT	-11000	-2.119461	20	PASS
	5230	NV	NT	-9000	-1.720841	20	PASS
		LV	NT	-9000	-1.720841	20	PASS
		HV	NT	-9000	-1.720841	20	PASS
	5755	NV	NT	-10000	-1.897533	20	PASS
		LV	NT	-9000	-1.70778	20	PASS
		HV	NT	-10000	-1.897533	20	PASS
	5795	NV	NT	-11000	-1.911381	20	PASS
		LV	NT	-12000	-2.085143	20	PASS
		HV	NT	-12000	-2.085143	20	PASS

Temperature							
Test Mode	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
802.11ac(VH T20)	5180	NV	0	-15000	-2.895753	20	PASS
		NV	10	-17000	-3.281853	20	PASS
		NV	20	-19000	-3.667954	20	PASS
		NV	30	-21000	-4.054054	20	PASS
		NV	40	-22000	-4.247104	20	PASS
	5200	NV	0	-17000	-3.269231	20	PASS
		NV	10	-17000	-3.269231	20	PASS
		NV	20	-16000	-3.076923	20	PASS
		NV	30	-16000	-3.076923	20	PASS
		NV	40	-15000	-2.884615	20	PASS
	5240	NV	0	-15000	-2.862595	20	PASS
		NV	10	-15000	-2.862595	20	PASS
		NV	20	-15000	-2.862595	20	PASS
		NV	30	-15000	-2.862595	20	PASS
		NV	40	-15000	-2.862595	20	PASS
	5745	NV	0	-13000	-2.262837	20	PASS
		NV	10	-14000	-2.436902	20	PASS
		NV	20	-14000	-2.436902	20	PASS
		NV	30	-14000	-2.436902	20	PASS
		NV	40	-14000	-2.436902	20	PASS
	5785	NV	0	-16000	-2.765774	20	PASS
		NV	10	-16000	-2.765774	20	PASS
		NV	20	-16000	-2.765774	20	PASS
		NV	30	-16000	-2.765774	20	PASS
		NV	40	-16000	-2.765774	20	PASS
	5825	NV	0	-8000	-1.373391	20	PASS
		NV	10	-10000	-1.716738	20	PASS
		NV	20	-11000	-1.888412	20	PASS
		NV	30	-12000	-2.060086	20	PASS
		NV	40	-13000	-2.23176	20	PASS
802.11ac(VH T40)	5190	NV	0	-10000	-1.926782	20	PASS
		NV	10	-10000	-1.926782	20	PASS
		NV	20	-10000	-1.926782	20	PASS
		NV	30	-10000	-1.926782	20	PASS
		NV	40	-10000	-1.926782	20	PASS
	5230	NV	0	-90000	-1.720841	20	PASS
		NV	10	-90000	-1.720841	20	PASS
		NV	20	-90000	-1.720841	20	PASS
		NV	30	-90000	-1.720841	20	PASS
		NV	40	-90000	-1.720841	20	PASS
	5755	NV	0	-12000	-2.085143	20	PASS
		NV	10	-12000	-2.085143	20	PASS
		NV	20	-12000	-2.085143	20	PASS

		NV	30	-12000	-2.085143	20	PASS
		NV	40	-12000	-2.085143	20	PASS
	5795	NV	0	-13000	-2.243313	20	PASS
		NV	10	-13000	-2.243313	20	PASS
		NV	20	-13000	-2.243313	20	PASS
		NV	30	-13000	-2.243313	20	PASS
		NV	40	-13000	-2.243313	20	PASS
		NV	40	-13000	-2.243313	20	PASS

Appendix E: Duty Cycle

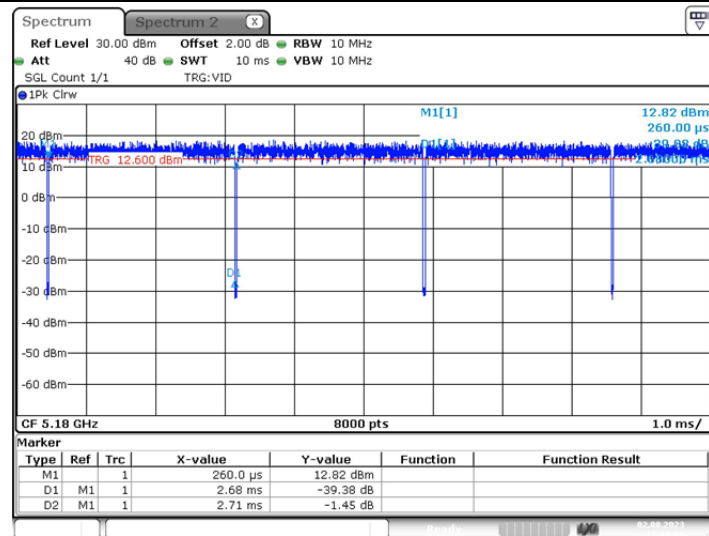
Test Result

Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)	Duty factor (dB)
802.11a	5180	2.68	2.71	98.89	0.373	1	0.05
	5200	2.68	2.72	98.53	0.373	1	0.06
	5240	2.68	2.71	98.89	0.373	1	0.05
	5745	2.68	2.71	98.89	0.373	1	0.05
	5785	2.68	2.72	98.53	0.373	1	0.06
	5825	2.67	2.71	98.52	0.375	1	0.06
802.11n(HT20)	5180	2.50	2.53	98.81	0.400	1	0.05
	5200	2.49	2.53	98.42	0.402	1	0.07
	5240	2.50	2.53	98.81	0.400	1	0.05
	5745	2.49	2.52	98.81	0.402	1	0.05
	5785	2.49	2.52	98.81	0.402	1	0.05
	5825	2.49	2.53	98.42	0.402	1	0.07
802.11n(HT40)	5190	1.22	1.36	89.71	0.820	1	0.47
	5230	1.22	1.26	96.83	0.820	1	0.14
	5755	1.22	1.25	97.60	0.820	1	0.11
	5795	1.22	1.25	97.60	0.820	1	0.11
802.11ac(VHT20)	5180	2.50	2.53	98.81	0.400	1	0.05
	5200	1.27	1.31	96.95	0.787	1	0.13
	5240	1.28	1.31	97.71	0.781	1	0.10
	5745	1.28	1.31	97.71	0.781	1	0.10
	5785	1.28	1.32	96.97	0.781	1	0.13
	5825	1.28	1.31	97.71	0.781	1	0.10
802.11ac(VHT40)	5190	0.63	0.67	94.03	1.587	3	0.27
	5230	0.64	0.78	82.05	1.563	3	0.86
	5755	0.64	0.67	95.52	1.563	3	0.20
	5795	0.63	0.67	94.03	1.587	3	0.27
802.11ax(HE20)	5180	1.91	2.04	93.63	0.524	1	0.29
	5200	1.90	2.04	93.14	0.526	1	0.31
	5240	1.90	2.00	95.00	0.526	1	0.22
	5745	1.90	1.93	98.45	0.526	1	0.07
	5785	1.91	1.94	98.45	0.524	1	0.07
	5825	1.90	1.94	97.94	0.526	1	0.09
802.11ax(HE40)	5190	1.23	1.26	97.62	0.813	1	0.10
	5230	1.22	1.26	96.83	0.820	1	0.14
	5755	0.63	0.67	94.03	1.587	3	0.27
	5795	0.64	0.67	95.52	1.563	3	0.20

Note: Duty Cycle Factor = $10 \cdot \log_{10}(1/\text{Duty Cycle})$

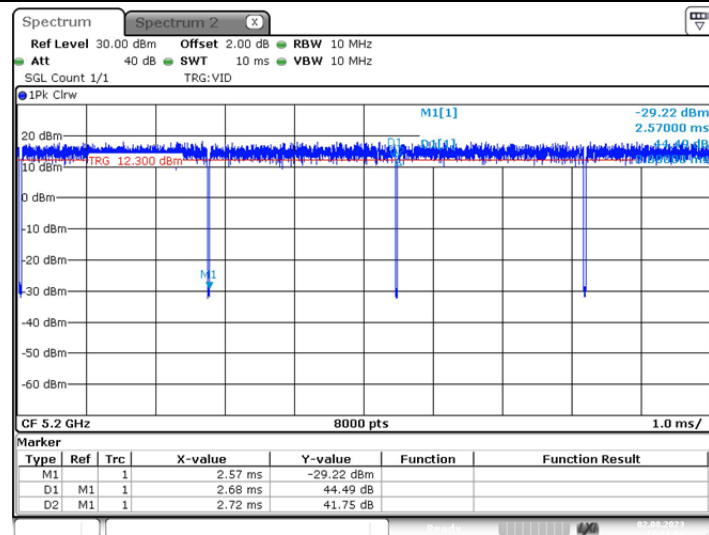
Test Graphs

802.11a_5180



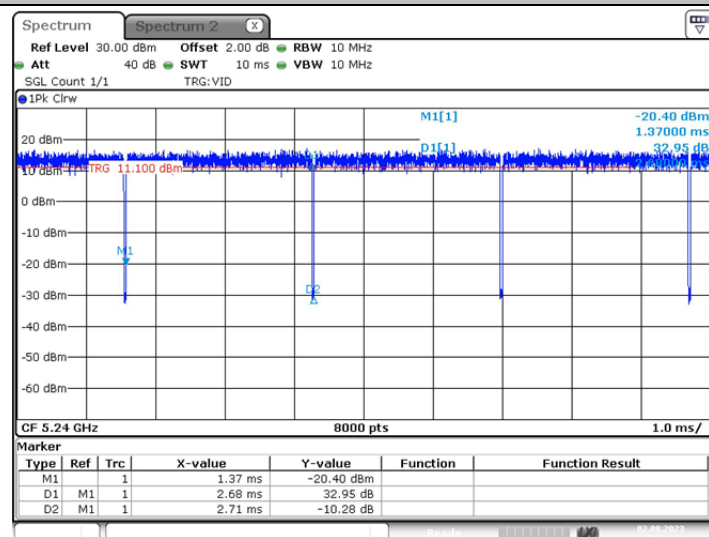
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802.11a_5200



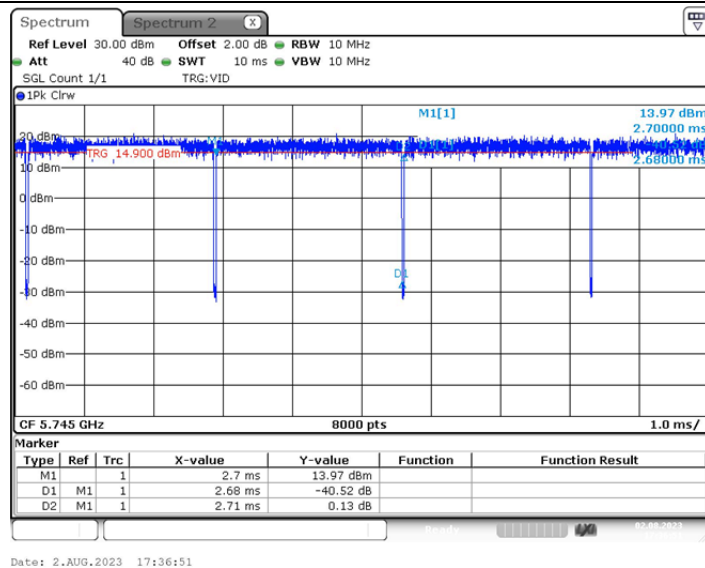
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802.11a_5240

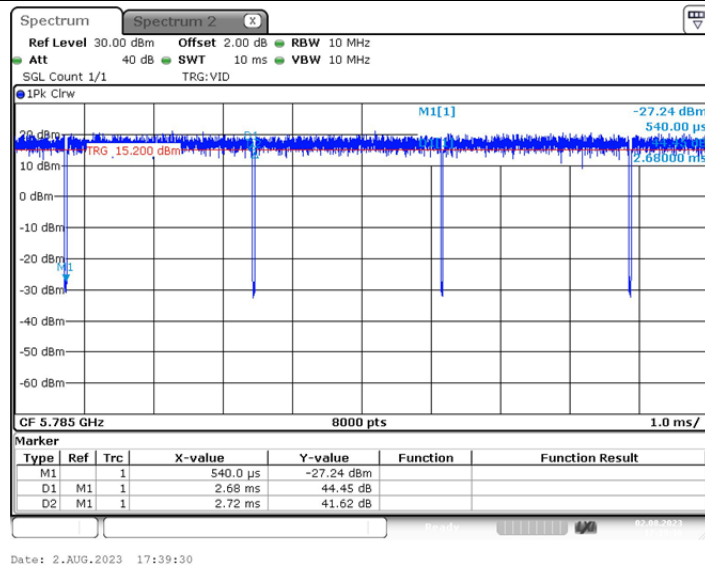


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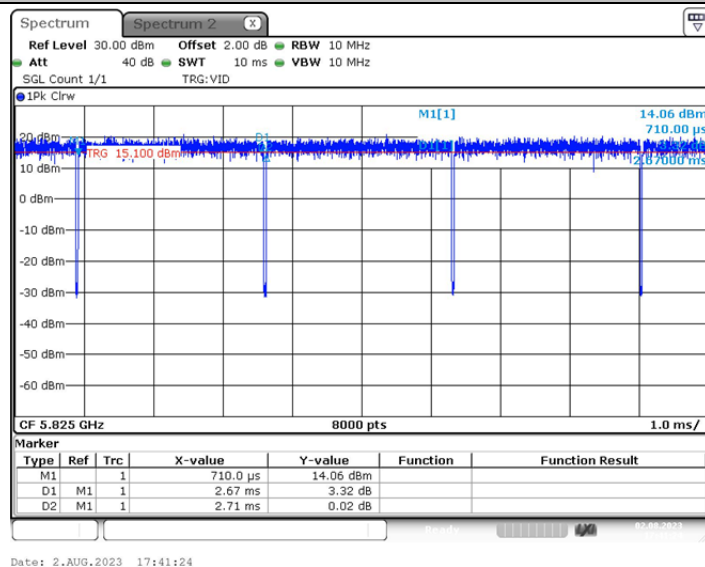
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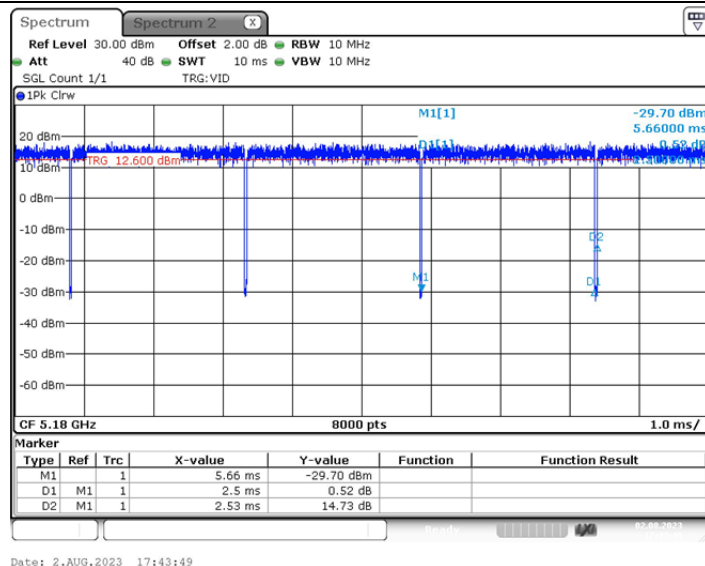
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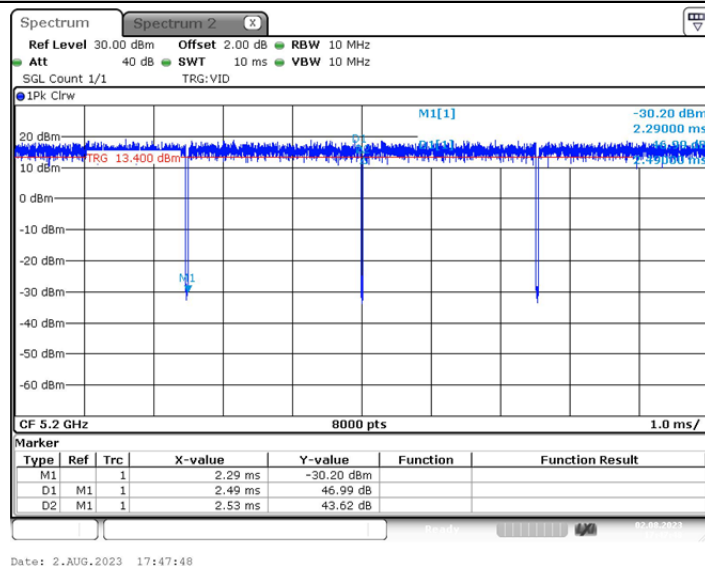
802.11a_5825



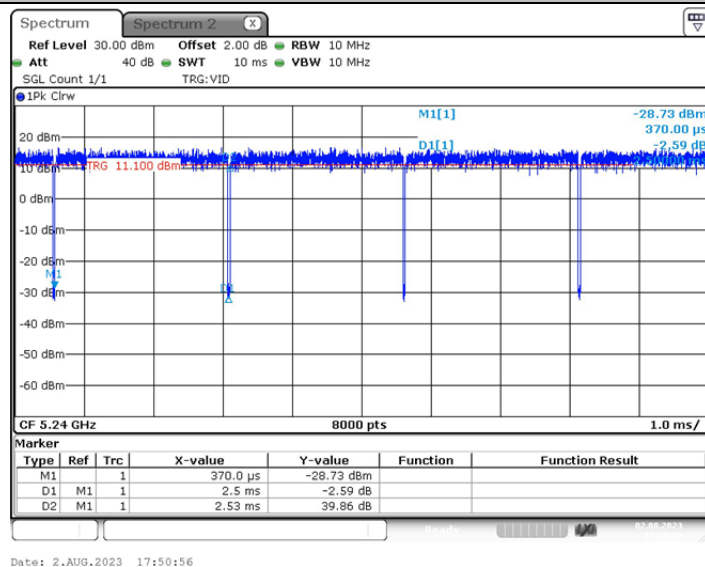
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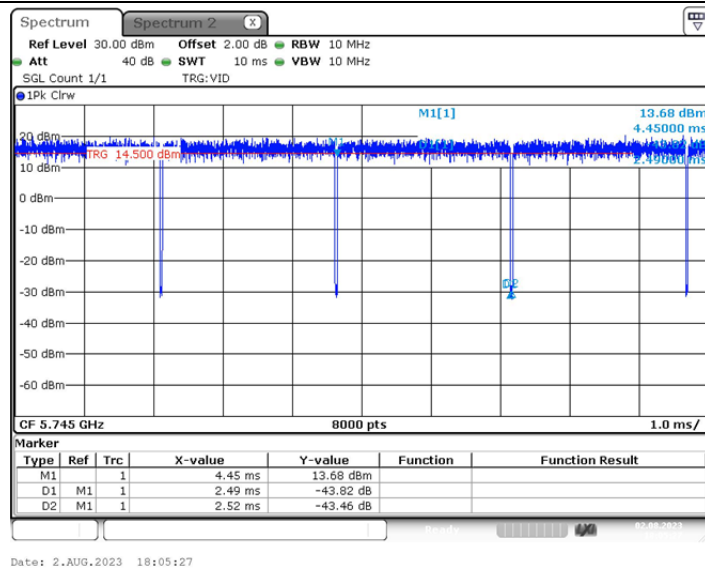
802.11n(HT20)_5200



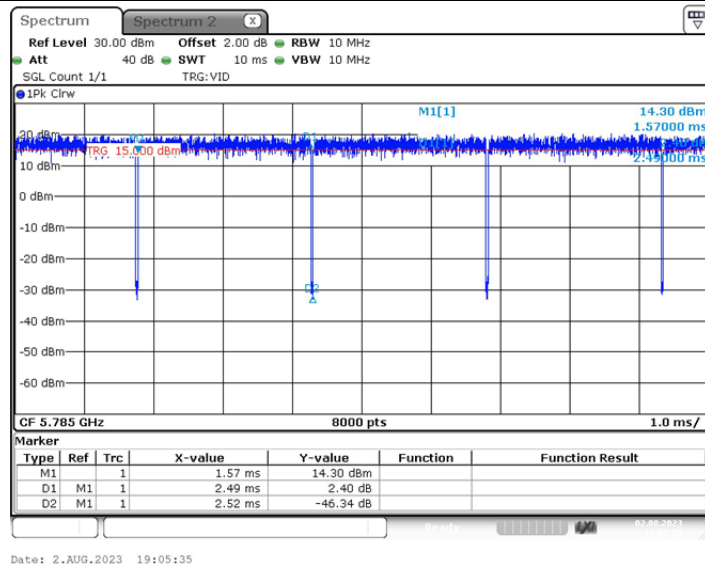
802.11n(HT20)_5240



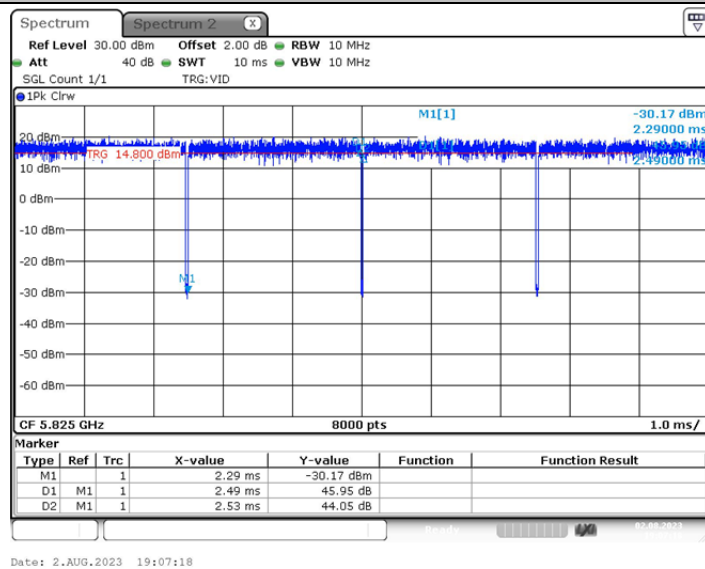
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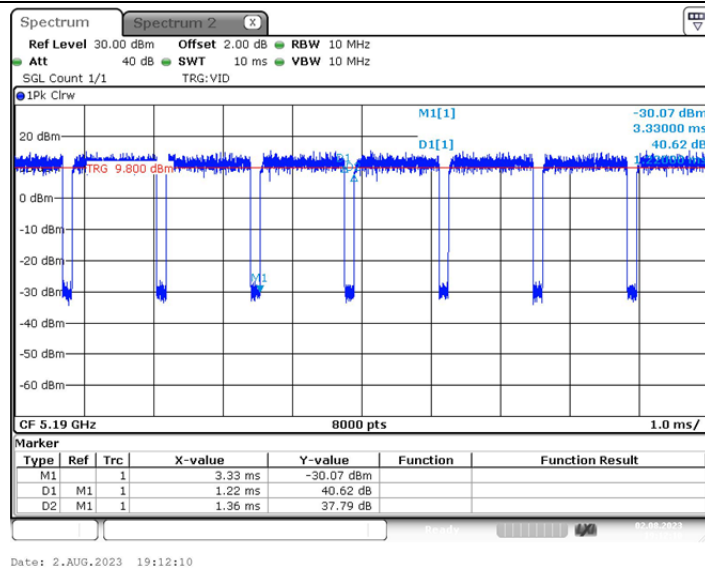
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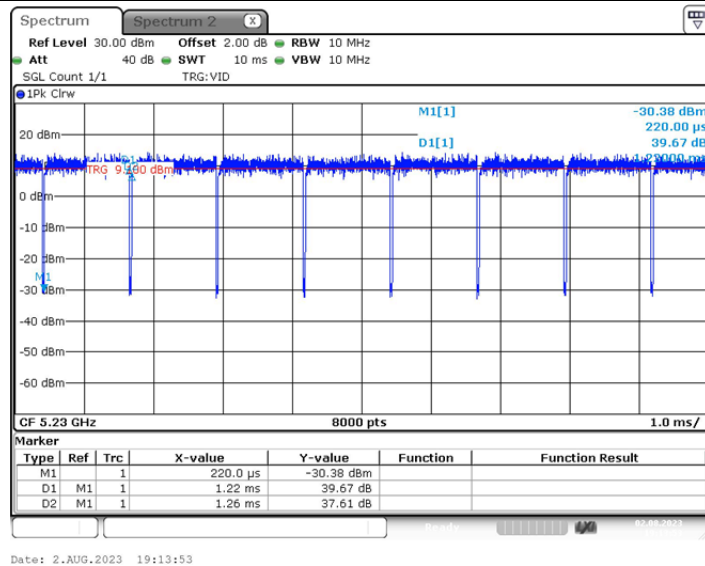
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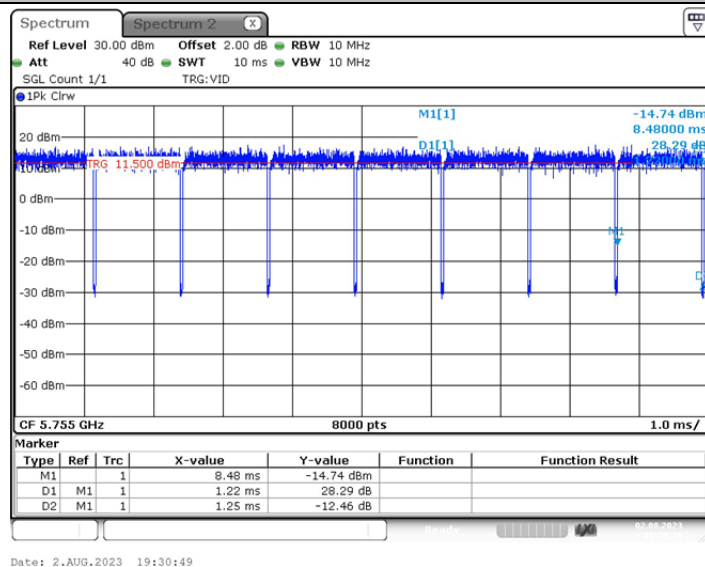
802.11n(HT40)_5190



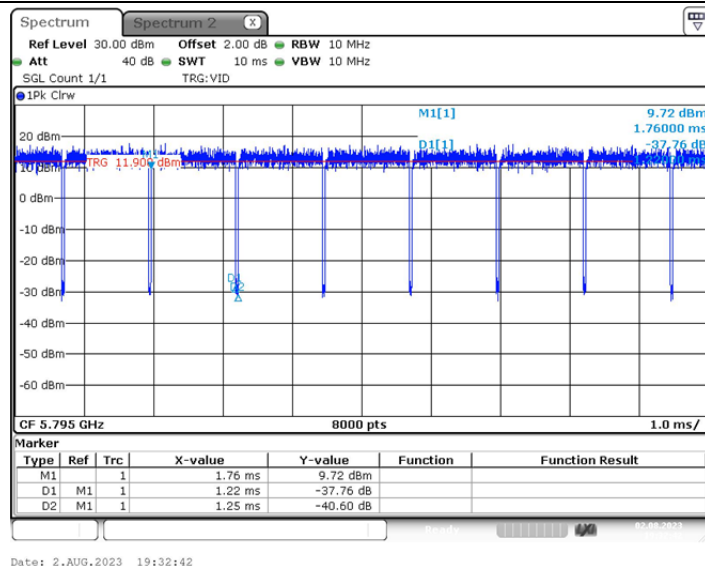
802.11n(HT40)_5230



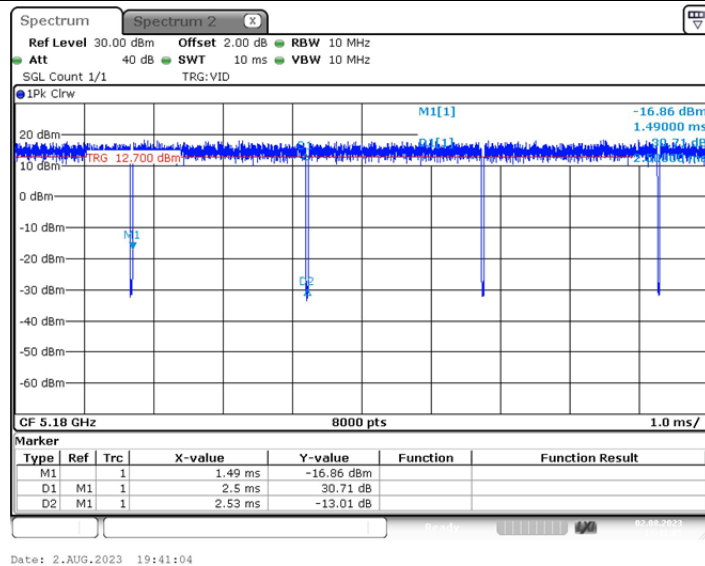
802.11n(HT40)_5755



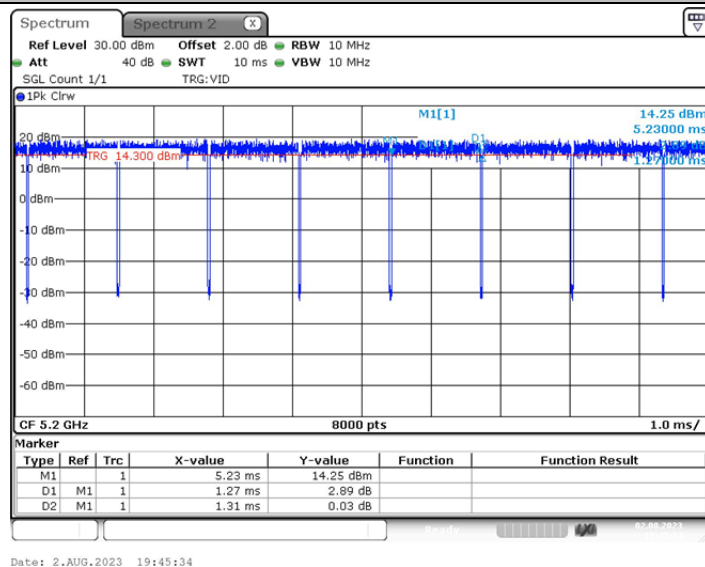
802.11n(HT40)_5795



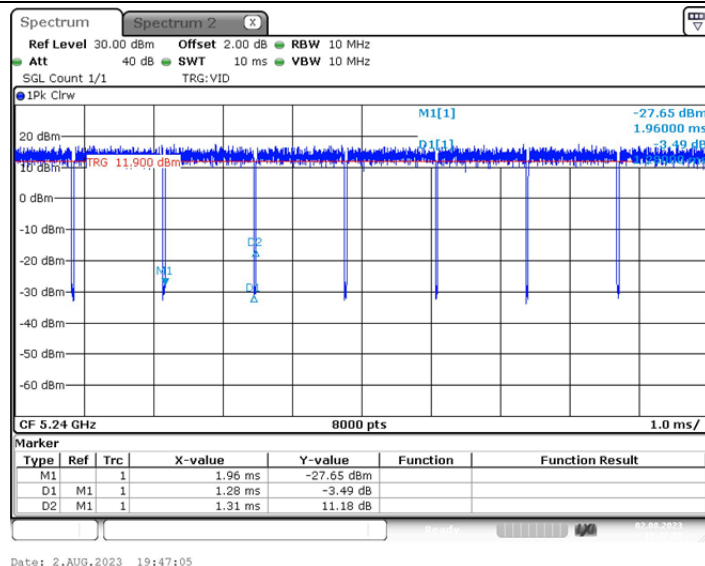
802.11ac(VHT20)_5180



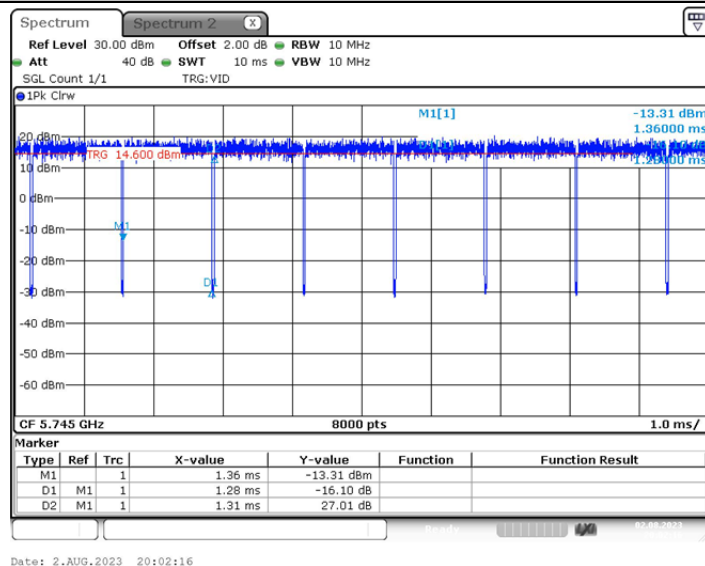
802.11ac(VHT20)_5200



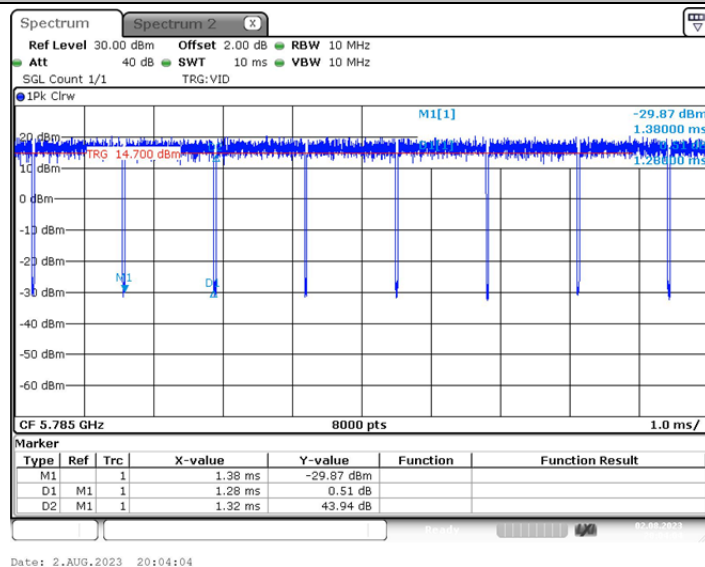
802.11ac(VHT20)_5240



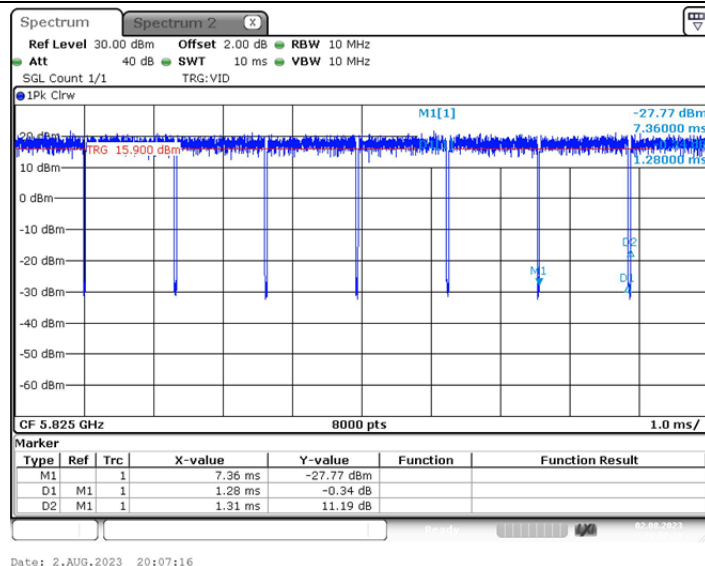
802.11ac(VHT20)_5745



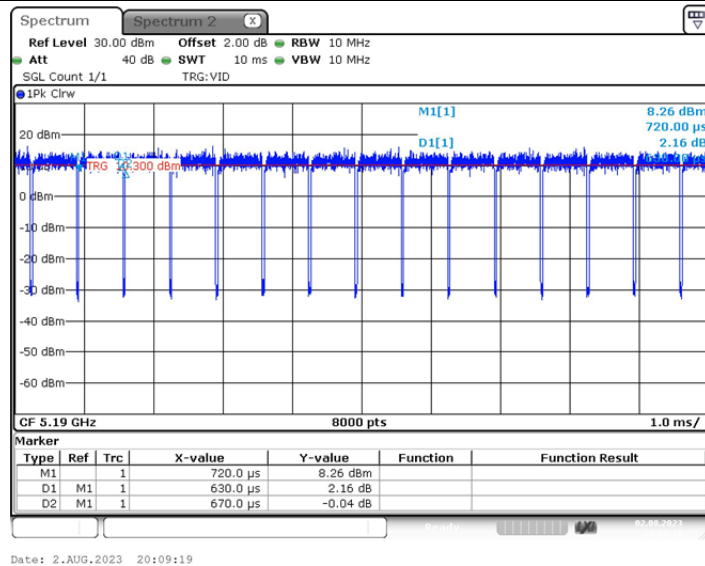
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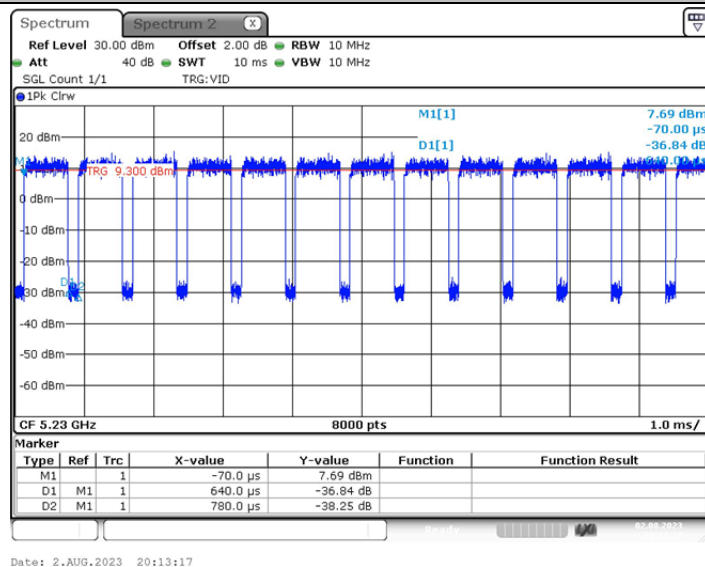
802.11ac(VHT20)_5825



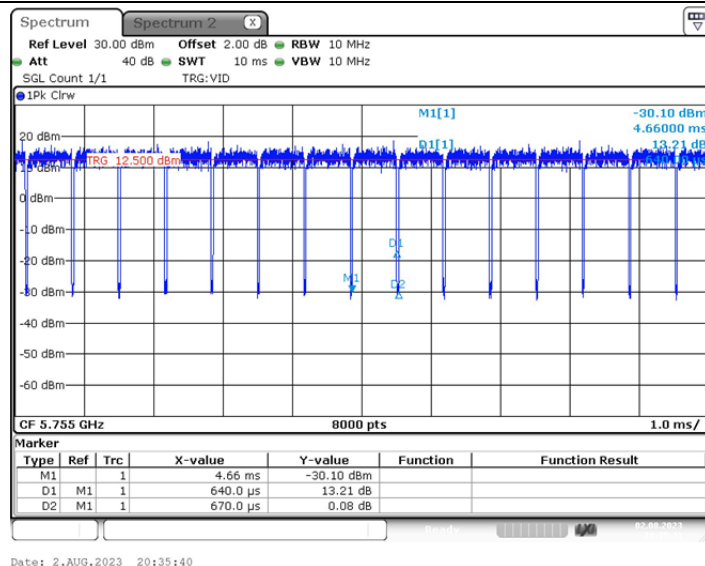
802.11ac(VHT40)_5190



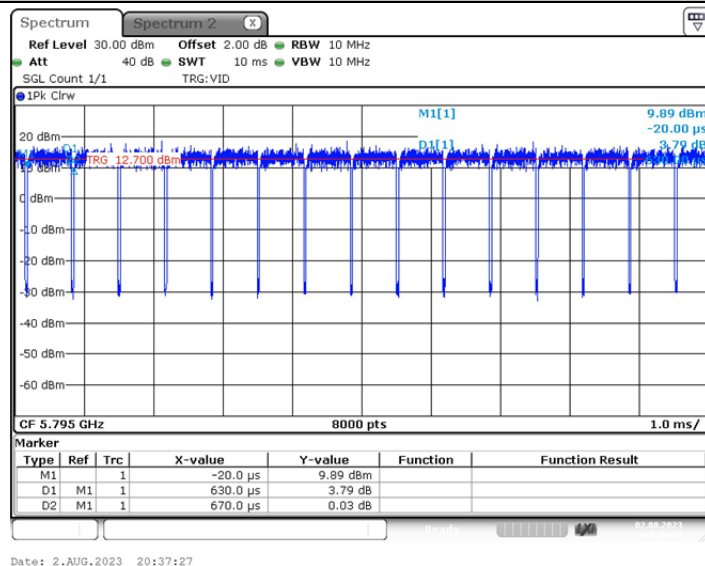
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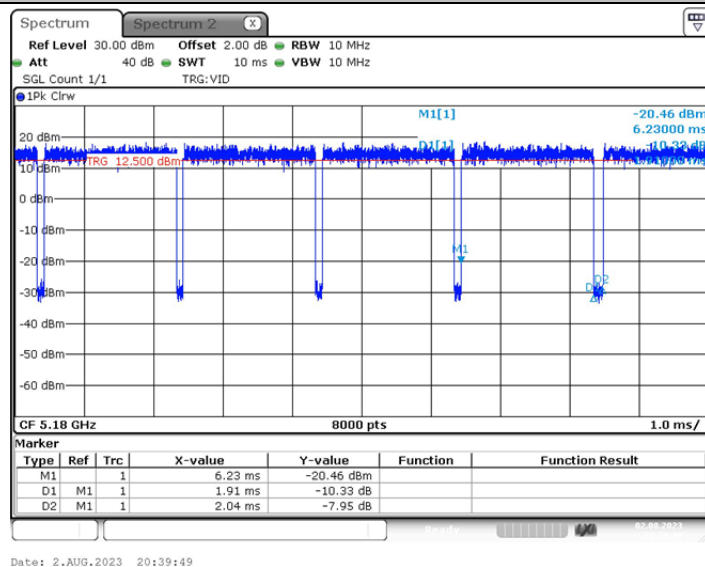
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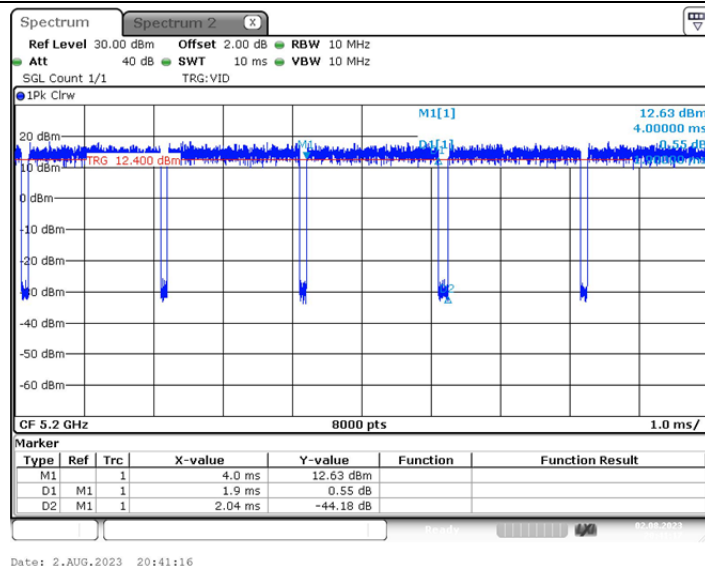
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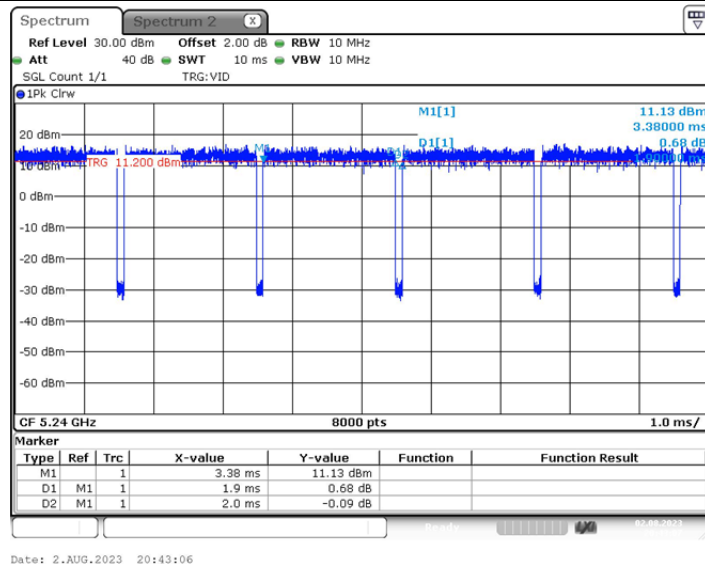
802.11ax(HE20)_5180



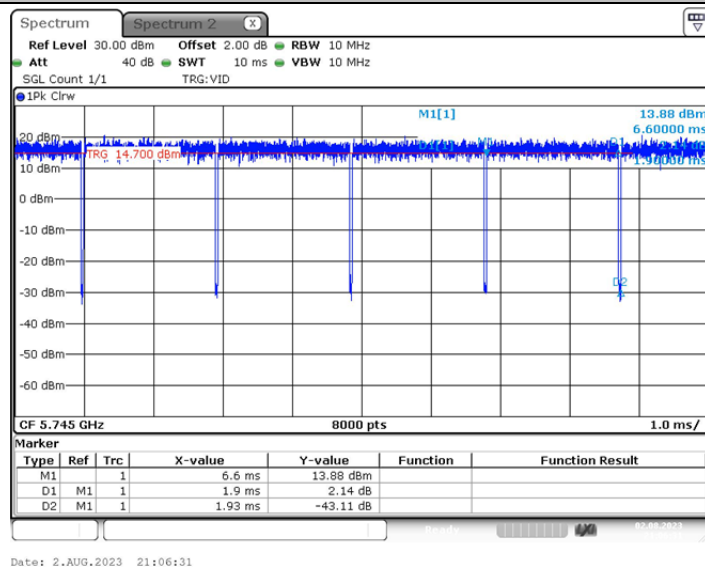
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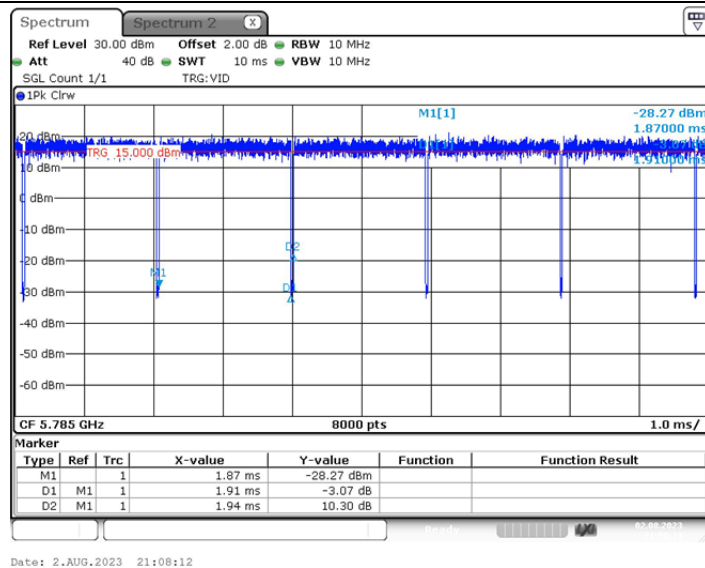
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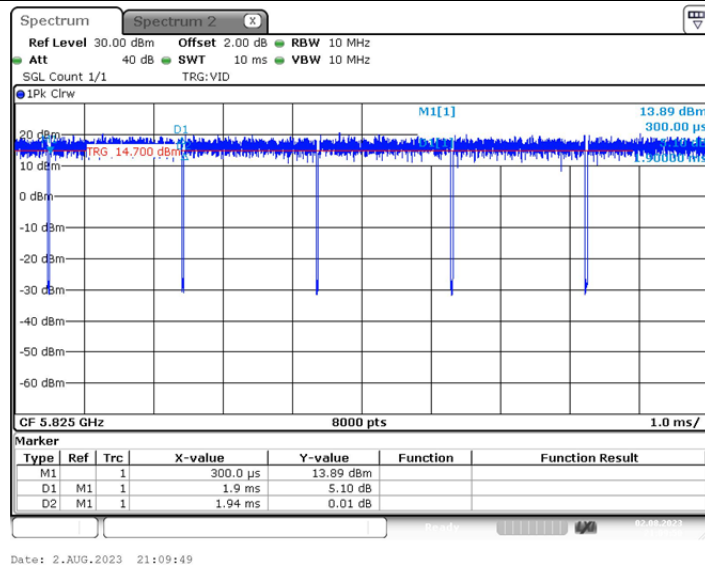
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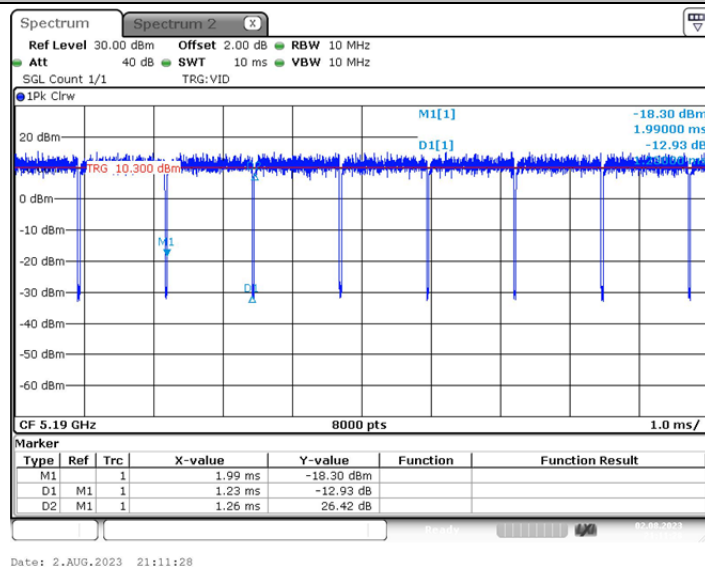
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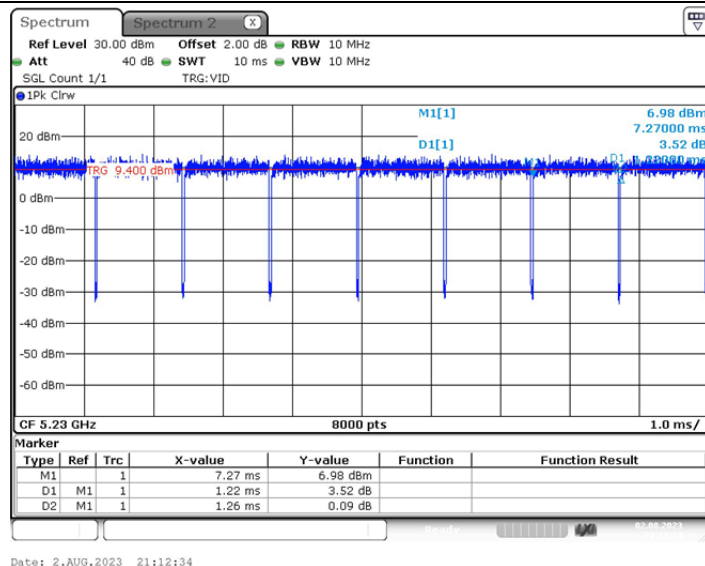
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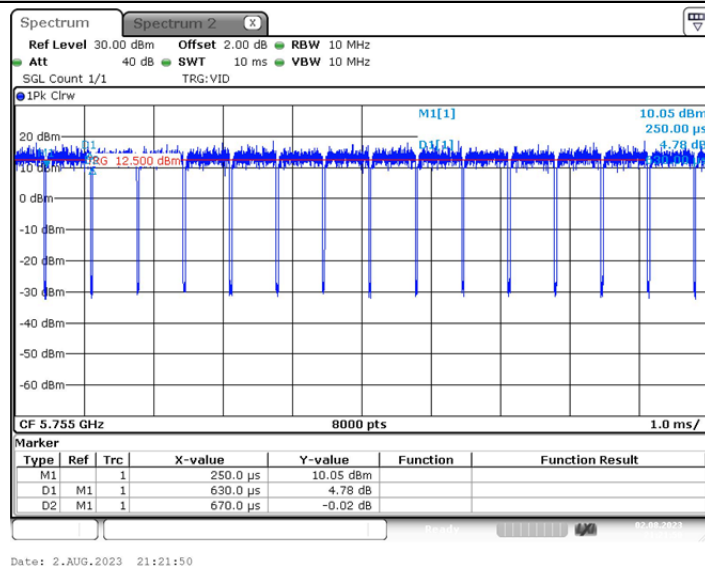
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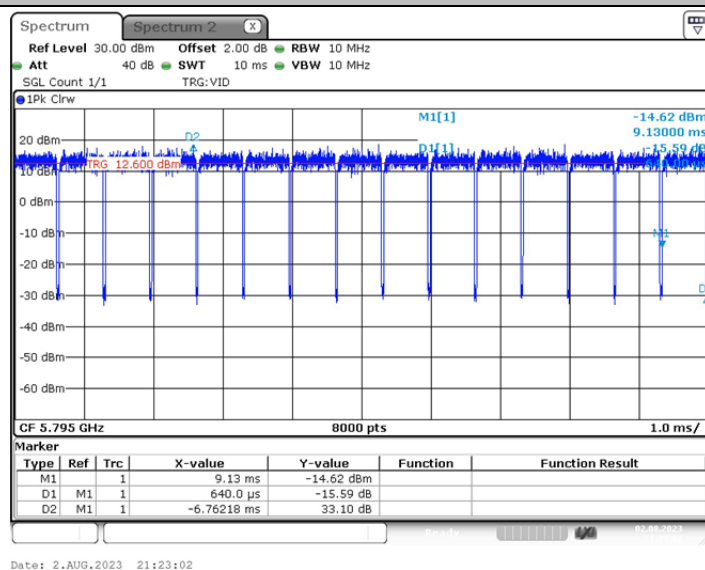
802.11ax(HE40)_5230



802.11ax(HE40)_5755



802.11ax(HE40)_5795



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