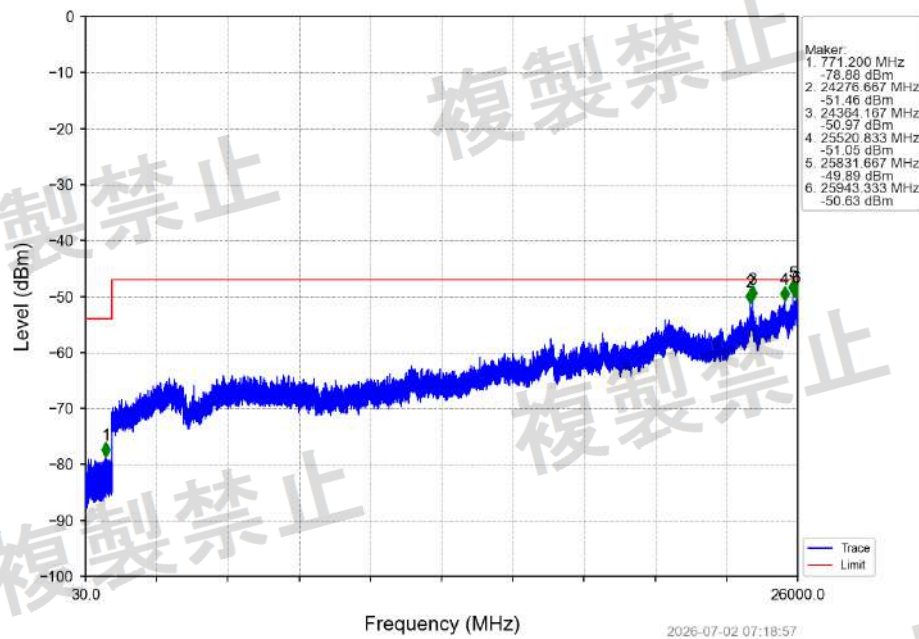
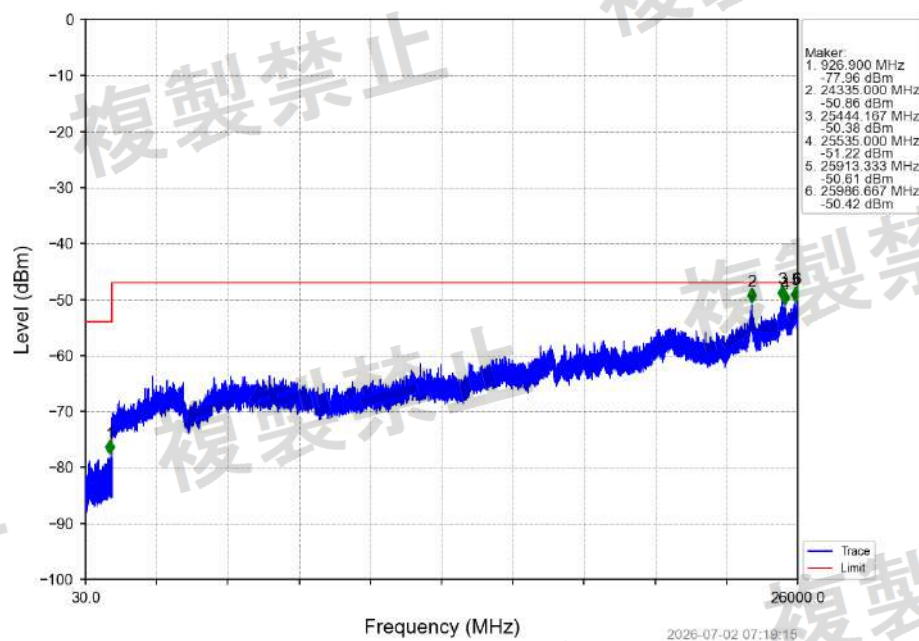




802.11ax(HEW20)_HCH_5320MHz_SU / Ant1 NTN

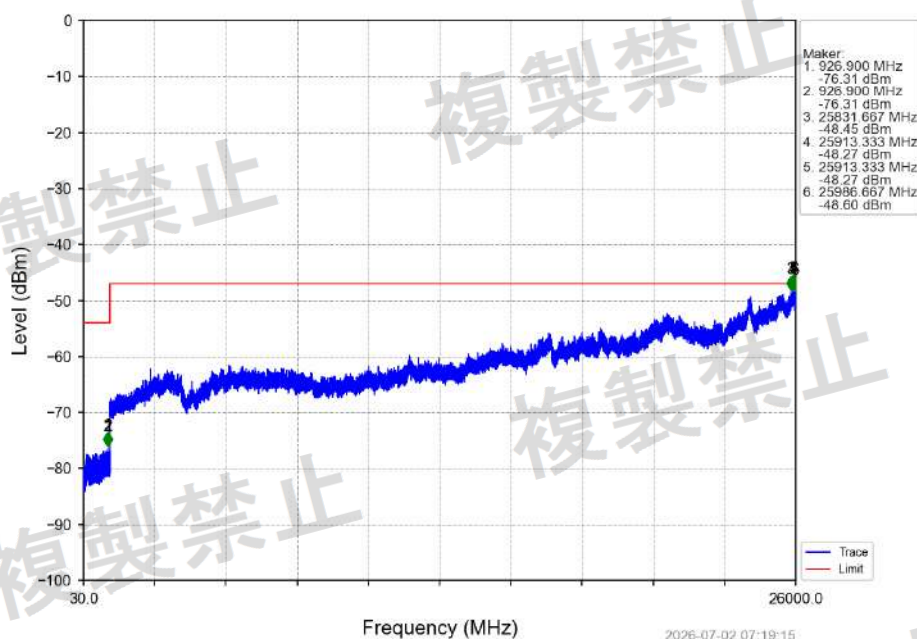


802.11ax(HEW20)_HCH_5320MHz_SU / Ant2 NTN

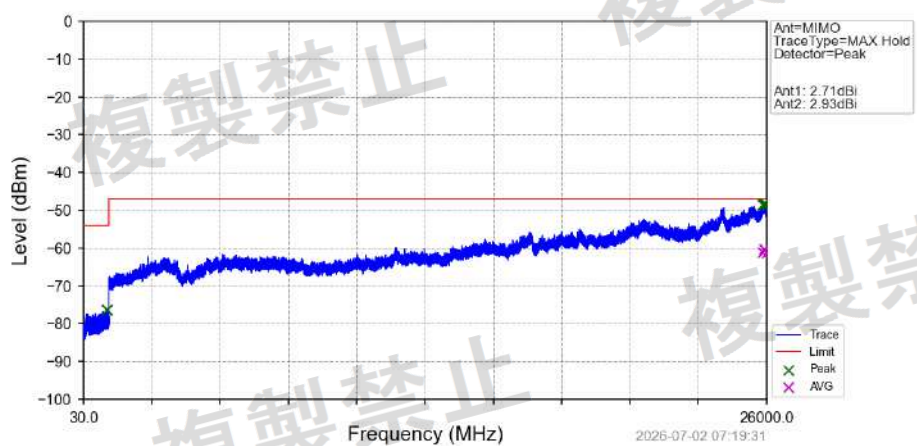




802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN



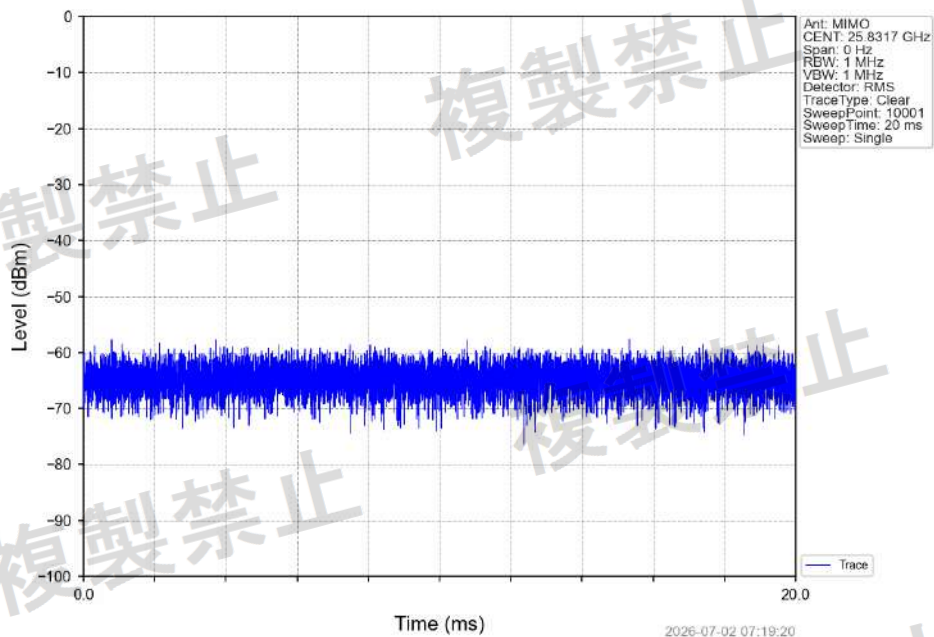
802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN



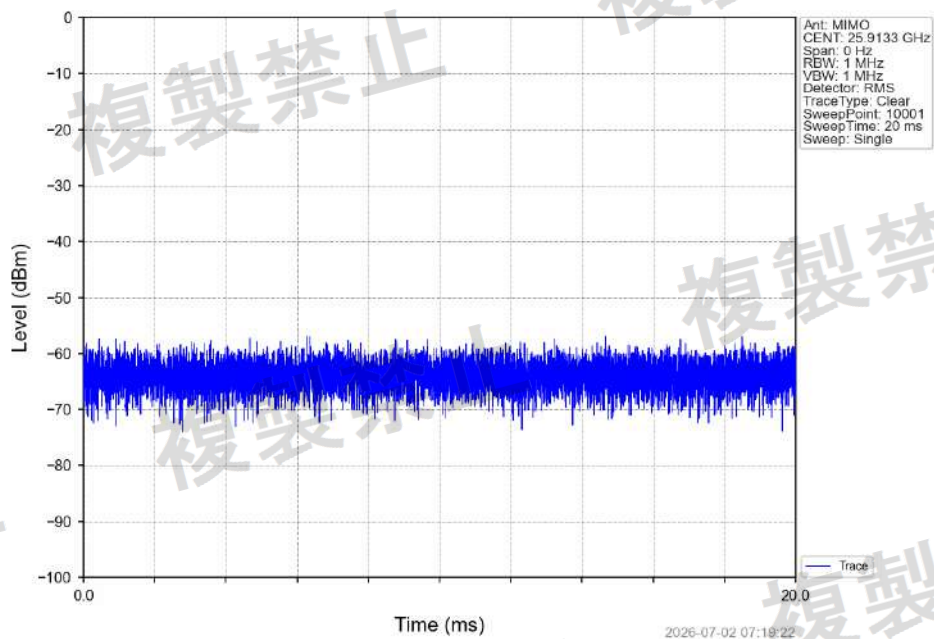
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	926.900	-76.31	/	-54	Pass
30	1000	0.1	0.1	926.900	-76.31	/	-54	Pass
1000	26000	1	1	25831.667	-48.45	-61.16	-47	Pass
1000	26000	1	1	25913.333	-48.27	-60.35	-47	Pass
1000	26000	1	1	25913.333	-48.27	-60.35	-47	Pass
1000	26000	1	1	25986.667	-48.60	-61.29	-47	Pass



802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN

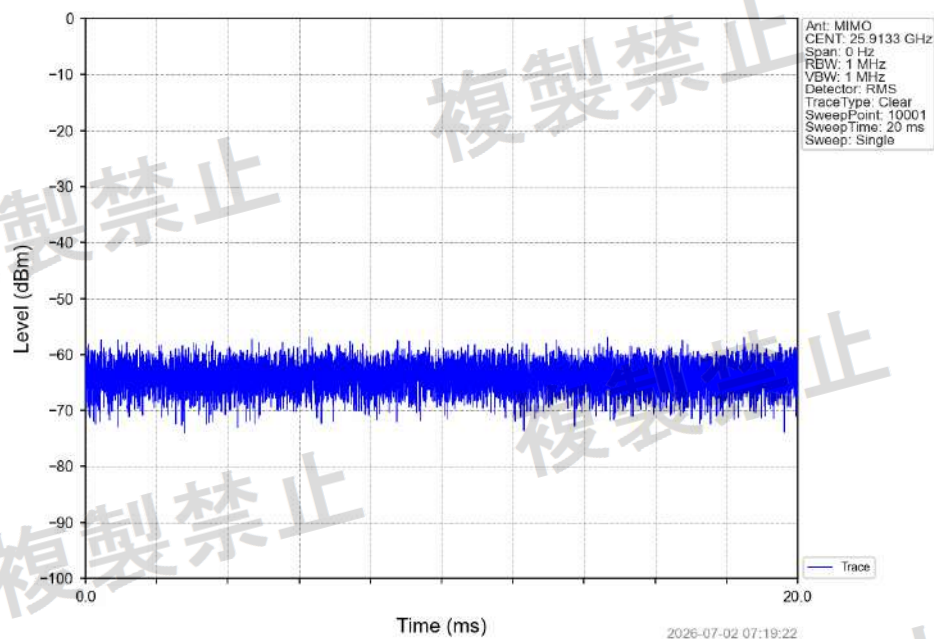


802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN

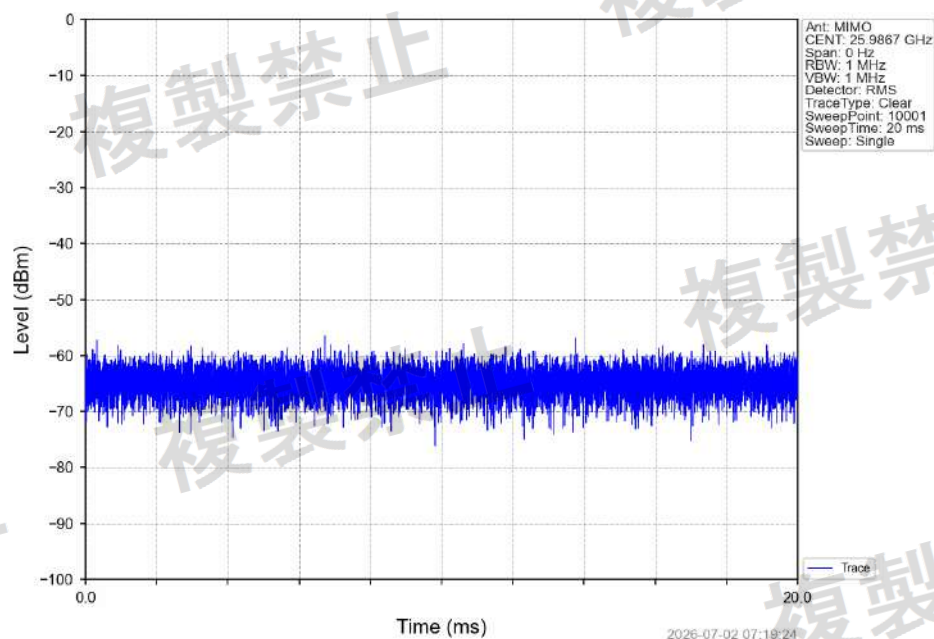




802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN

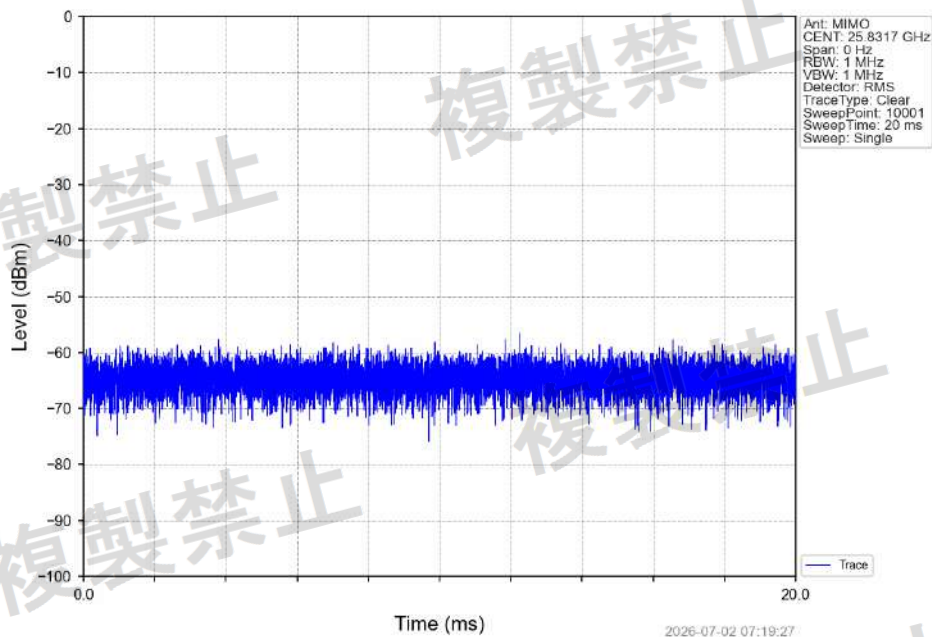


802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN

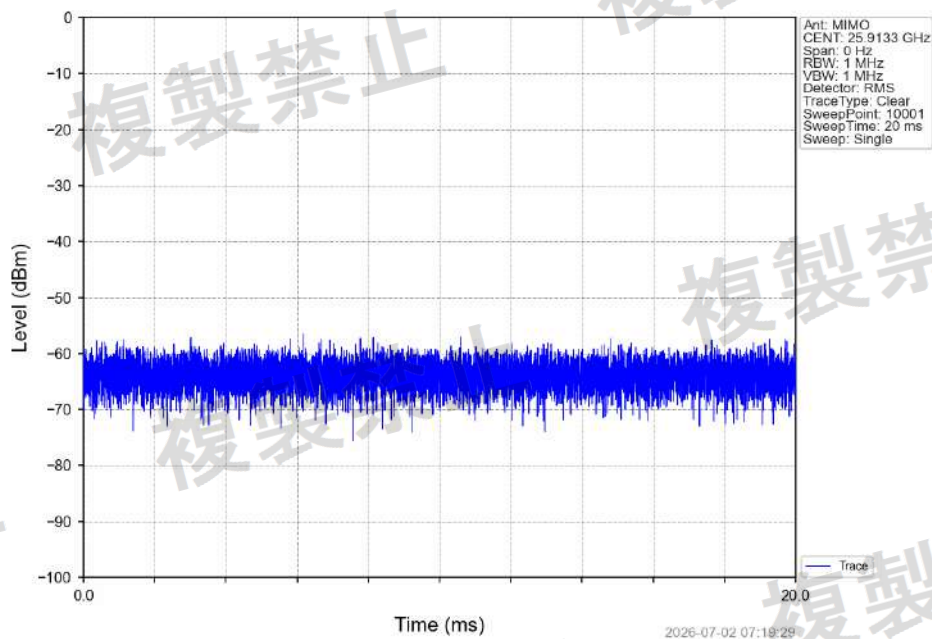




802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN

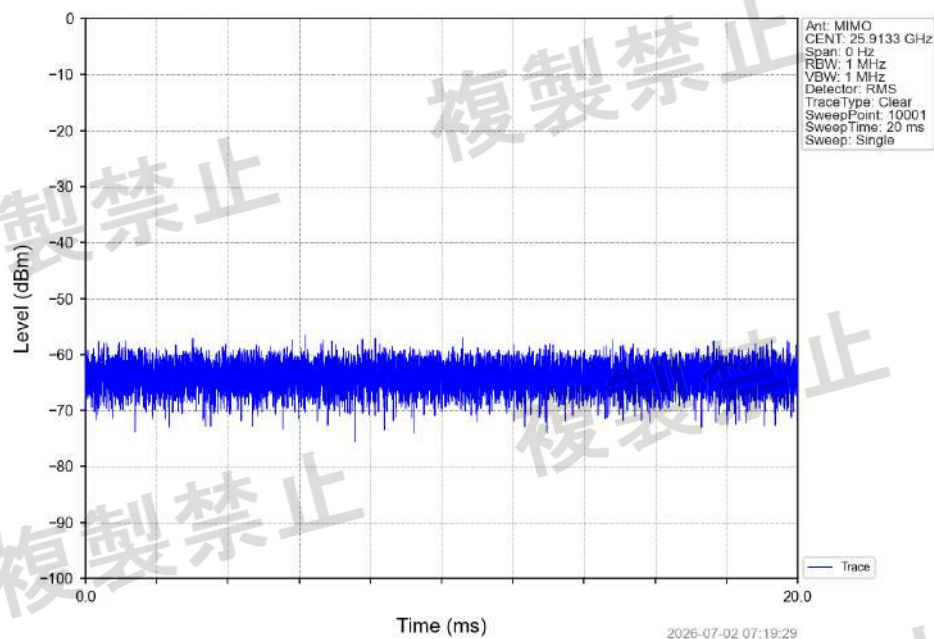


802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN

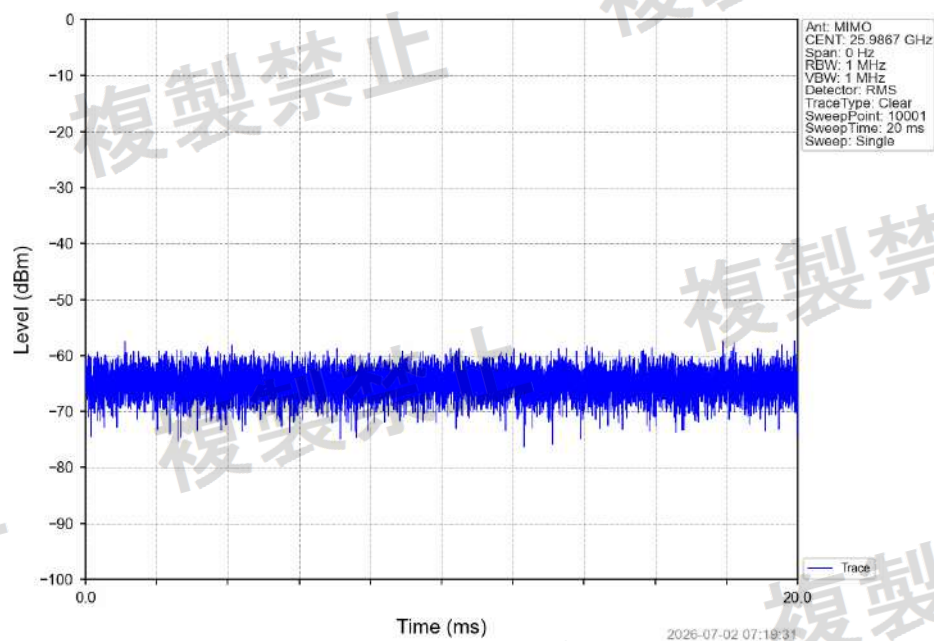




802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN

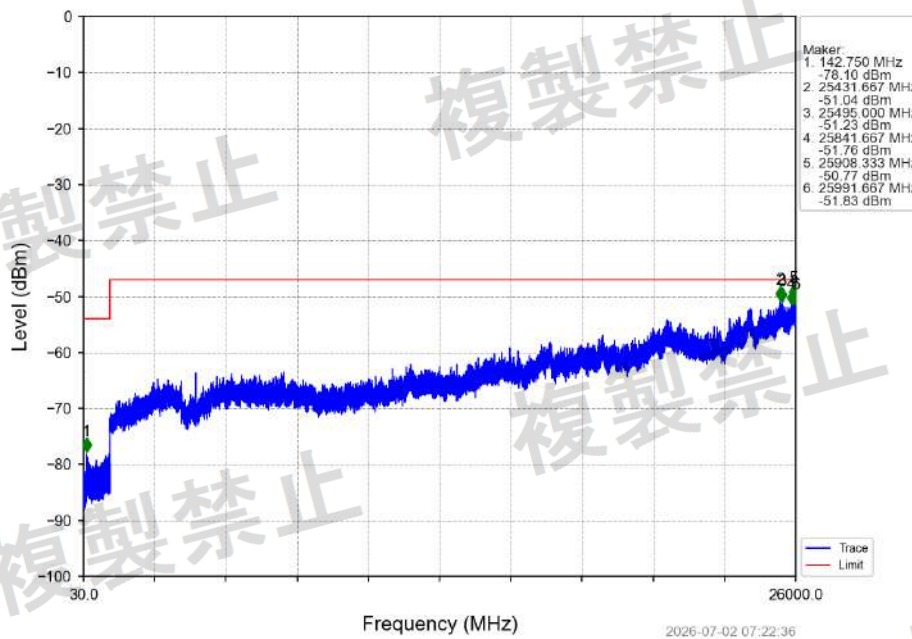


802.11ax(HEW20) HCH 5320MHz SU / MIMO NTN

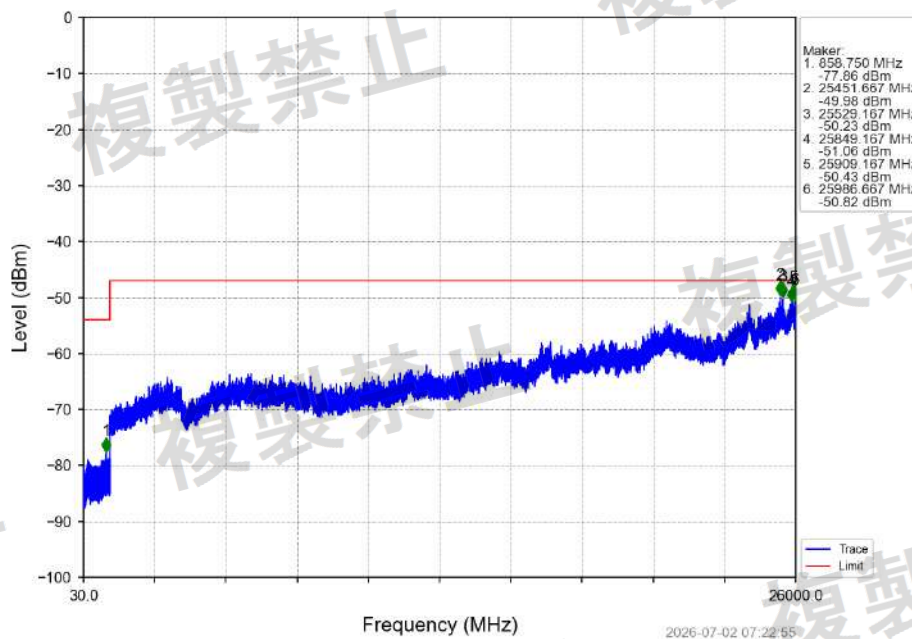




802.11ax(HEW20) LCH 5500MHz SU / Ant1 NTN

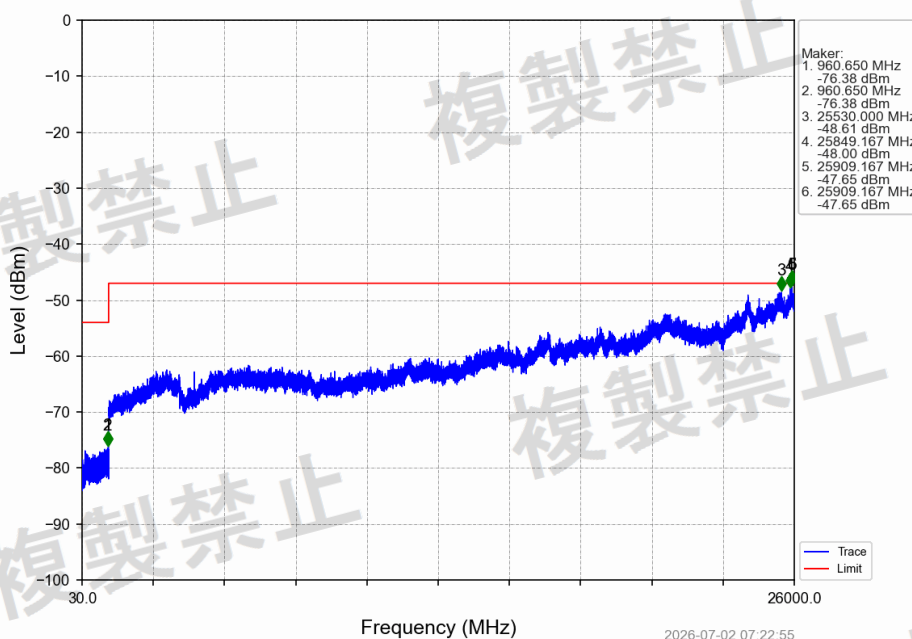


802.11ax(HEW20) LCH 5500MHz SU / Ant2 NTN

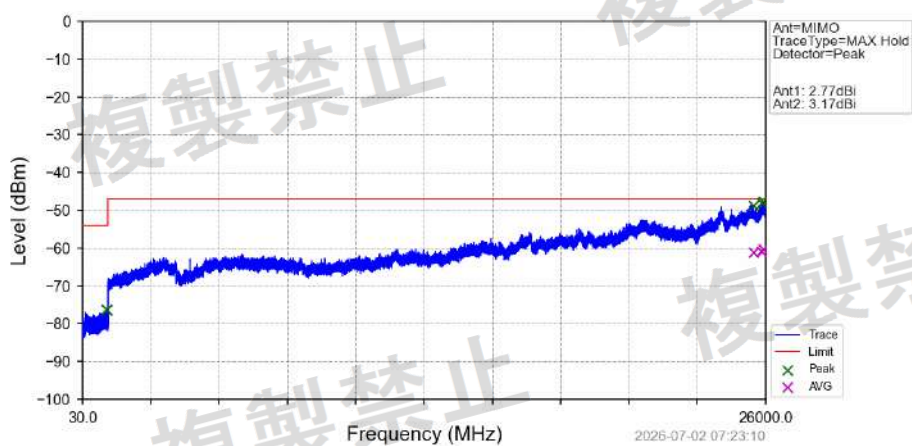




802.11ax(HEW20) LCH_5500MHz SU / MIMO NTN



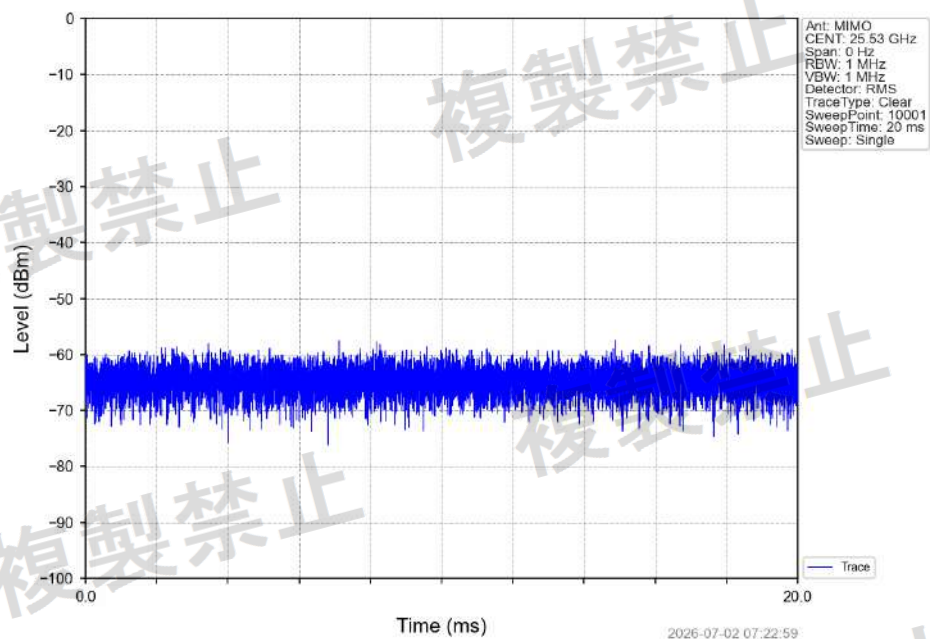
802.11ax(HEW20) LCH_5500MHz SU / MIMO NTN



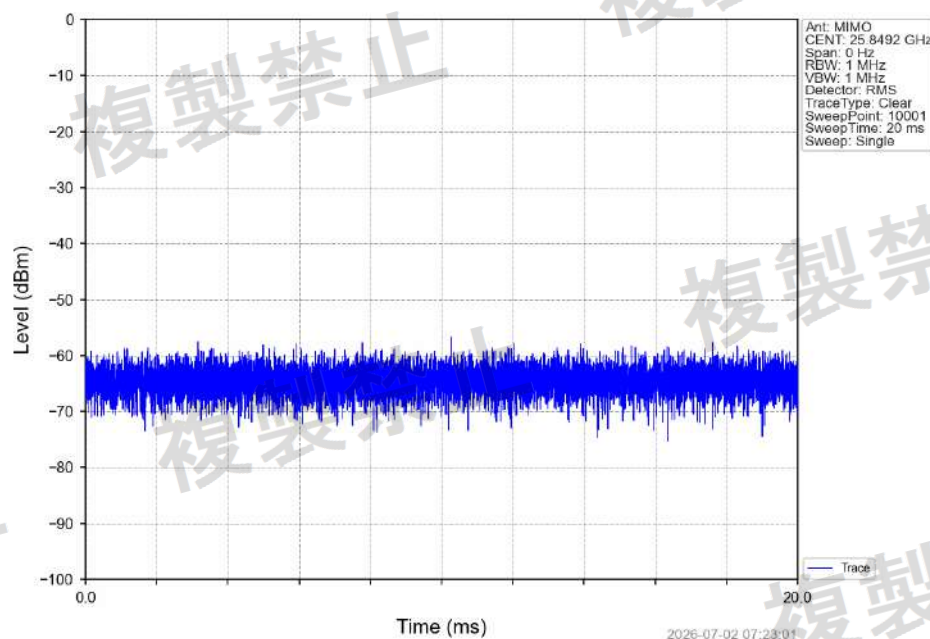
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	960.650	-76.38	/	-54	Pass
30	1000	0.1	0.1	960.650	-76.38	/	-54	Pass
1000	26000	1	1	25530.000	-48.61	-61.13	-47	Pass
1000	26000	1	1	25849.167	-48.00	-60.91	-47	Pass
1000	26000	1	1	25909.167	-47.65	-60.29	-47	Pass
1000	26000	1	1	25909.167	-47.65	-60.29	-47	Pass



802.11ax(HEW20) LCH_5500MHz_SU / MIMO NTN

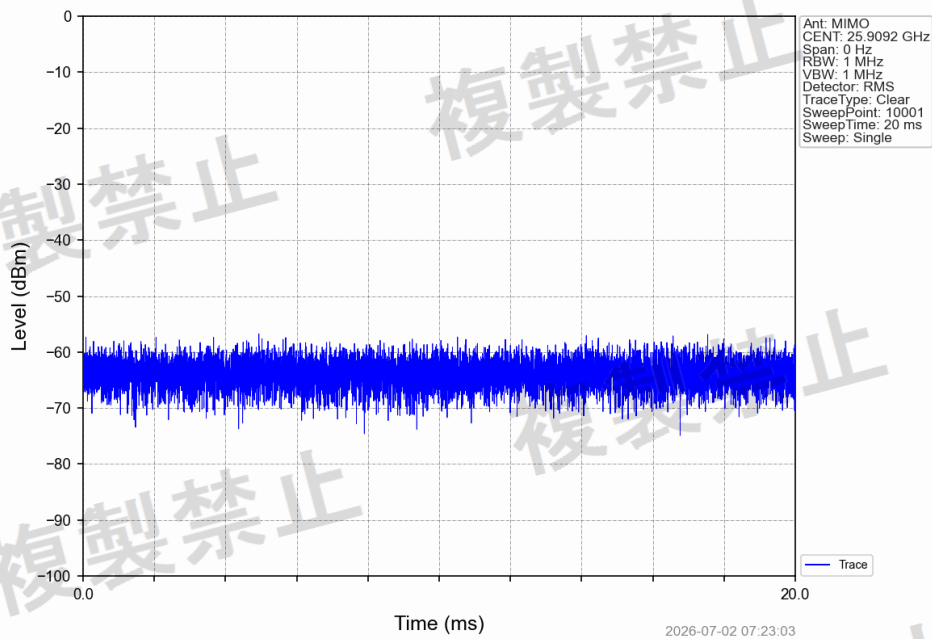


802.11ax(HEW20) LCH_5500MHz_SU / MIMO NTN

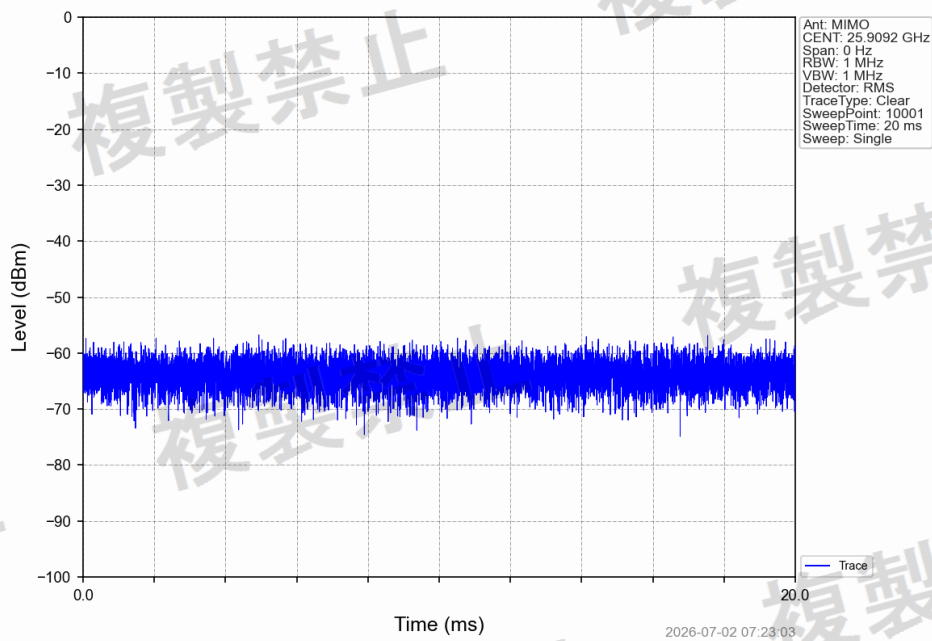




802.11ax(HEW20) LCH_5500MHz_SU / MIMO NTNv

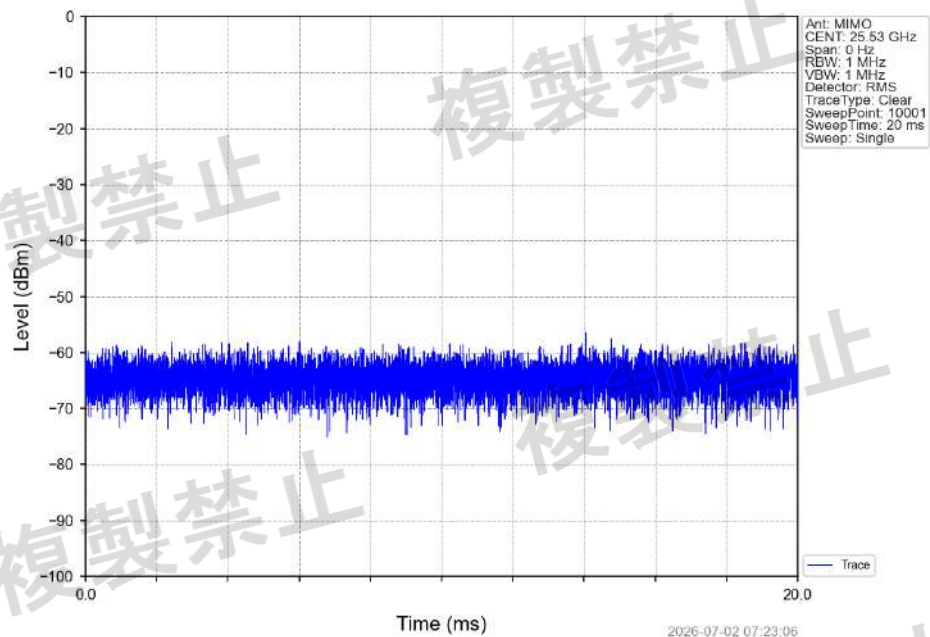


802.11ax(HEW20) LCH_5500MHz_SU / MIMO NTNv

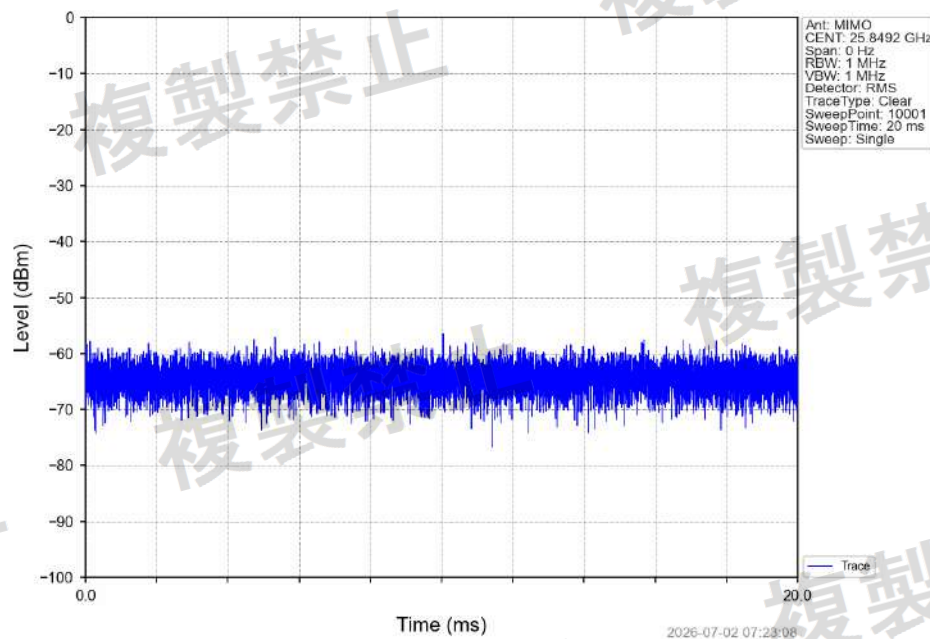




802.11ax(HEW20) LCH_5500MHz_SU / MIMO NTN

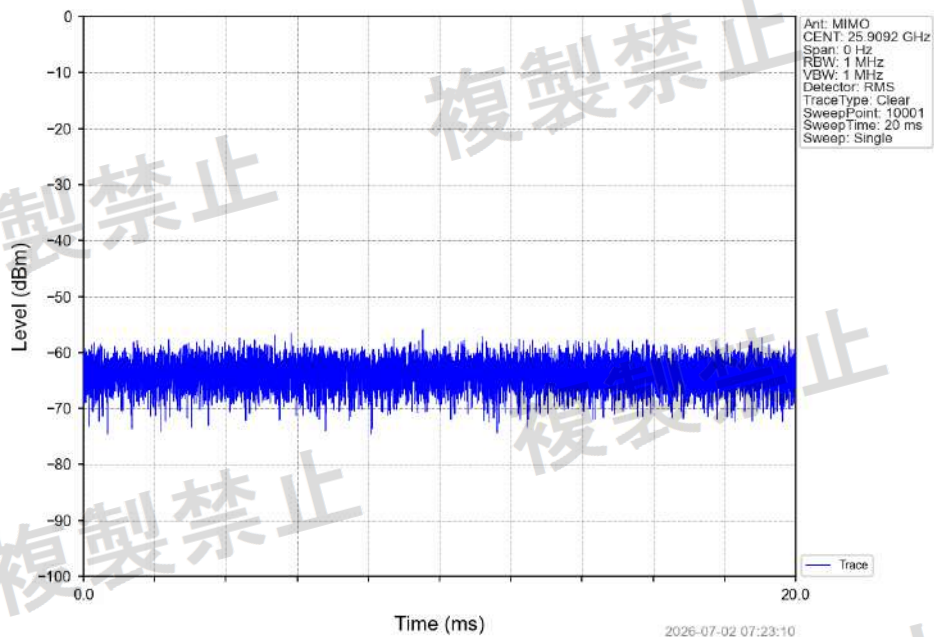


802.11ax(HEW20) LCH_5500MHz_SU / MIMO NTN

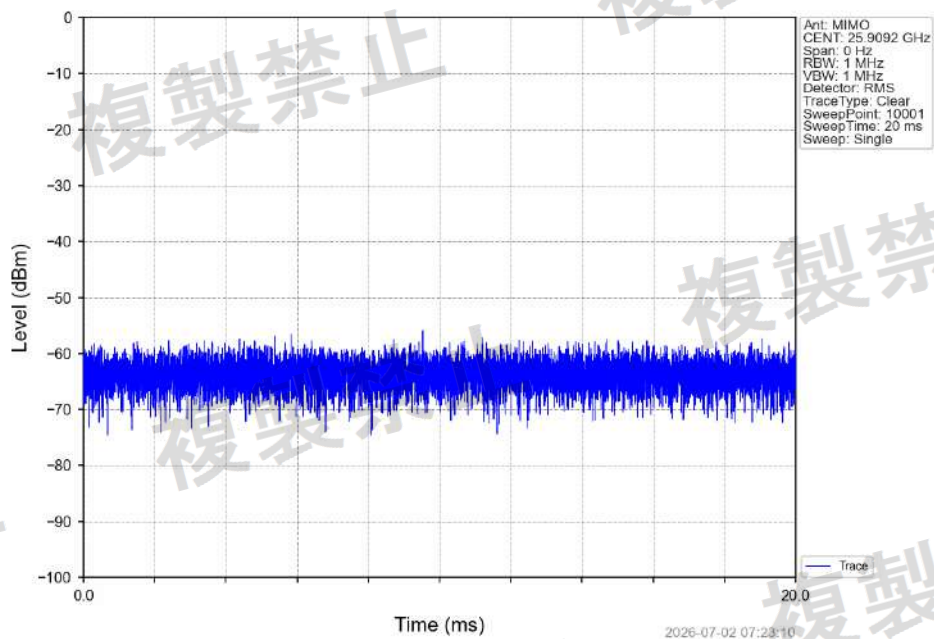




802.11ax(HEW20) LCH_5500MHz_SU / MIMO NTN

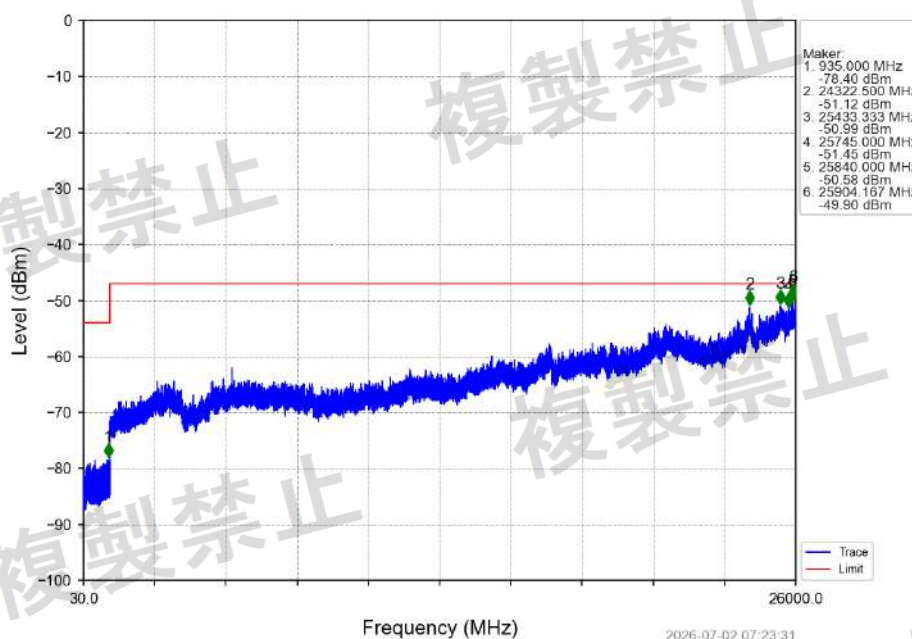


802.11ax(HEW20) LCH_5500MHz_SU / MIMO NTN

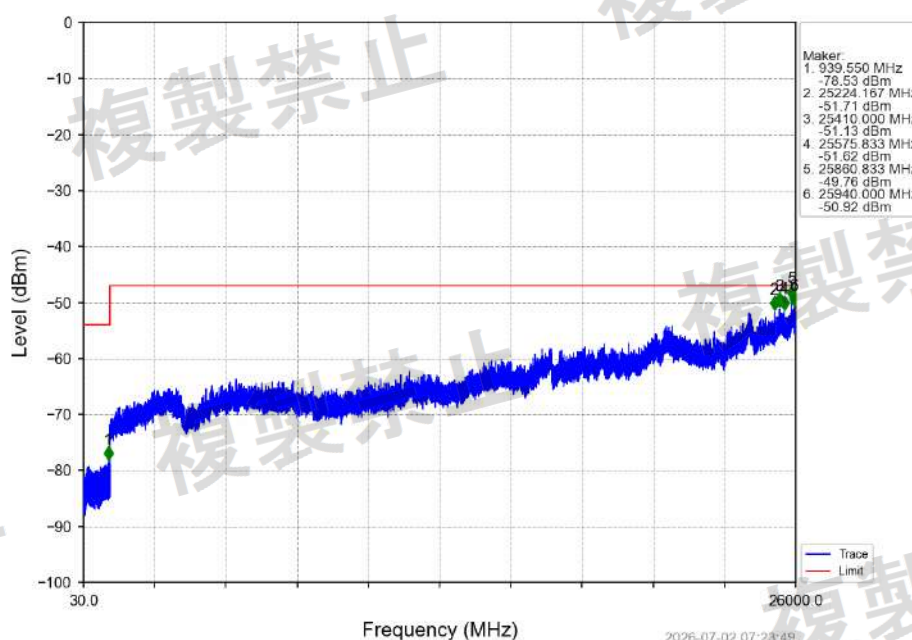




802.11ax(HEW20) MCH_5600MHz_SU / Ant1 NTN

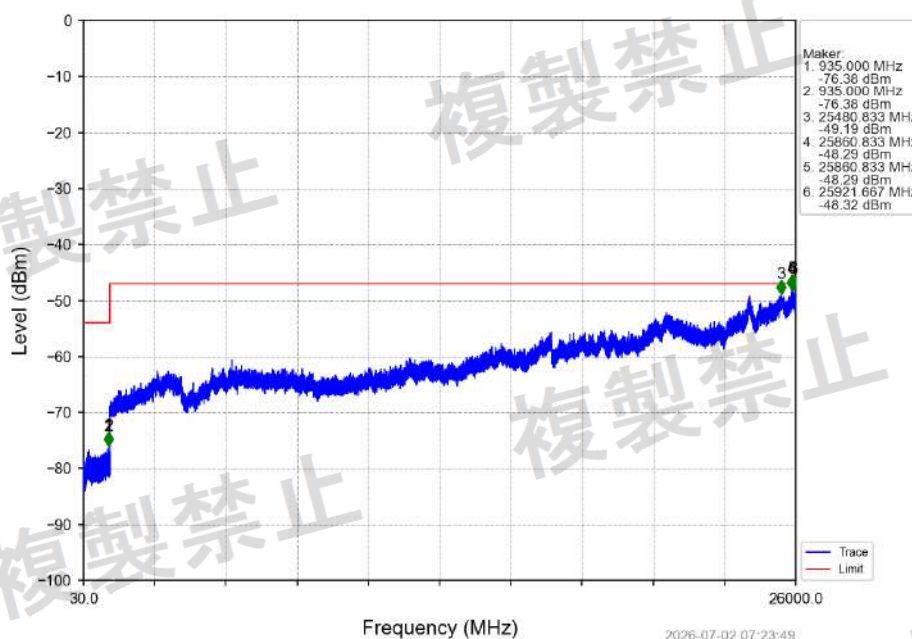


802.11ax(HEW20) MCH_5600MHz_SU / Ant2 NTN

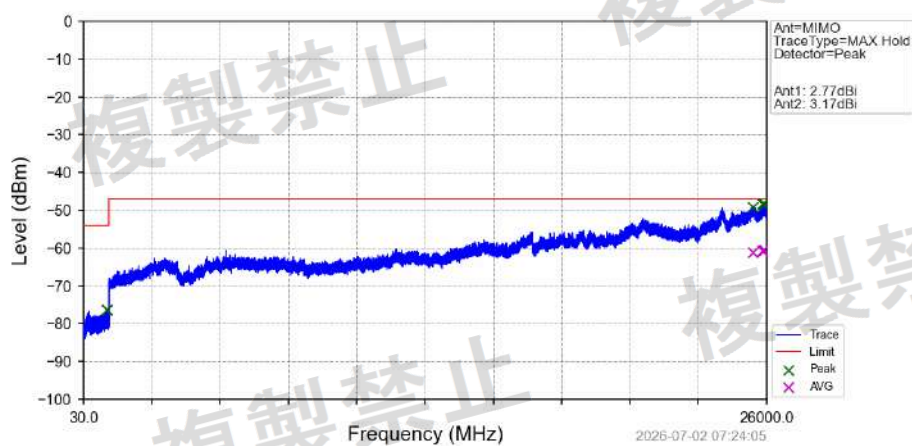




802.11ax(HEW20) MCH 5600MHz SU / MIMO NTN



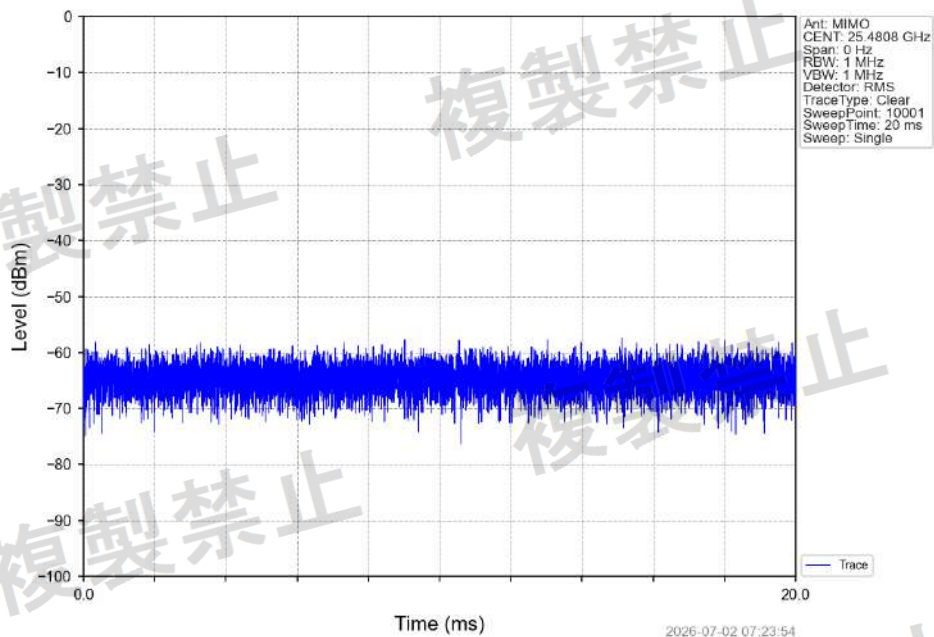
802.11ax(HEW20) MCH 5600MHz SU / MIMO NTN



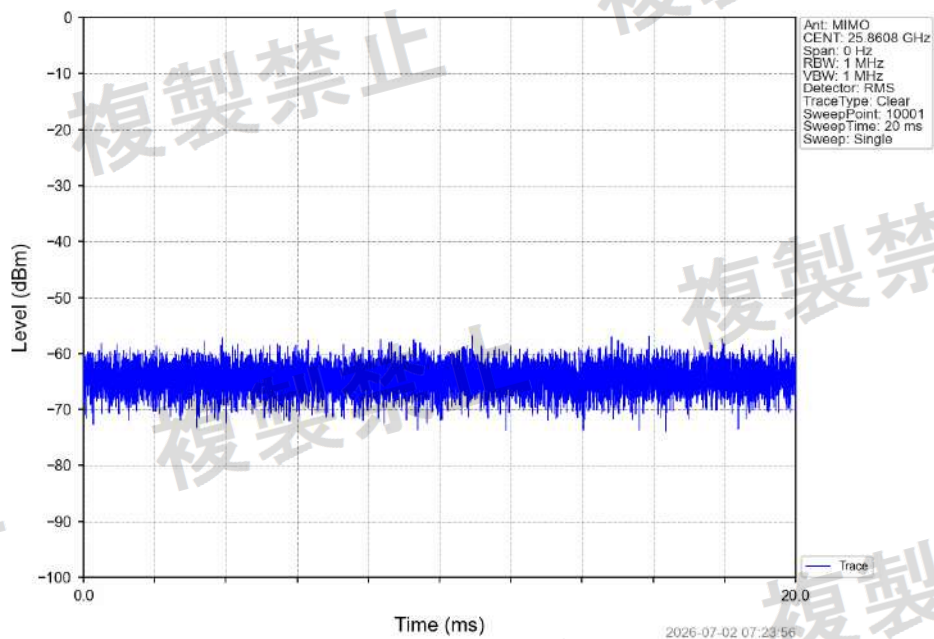
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	935.000	-76.38	/	-54	Pass
30	1000	0.1	0.1	935.000	-76.38	/	-54	Pass
1000	26000	1	1	25480.833	-49.19	-61.14	-47	Pass
1000	26000	1	1	25860.833	-48.29	-60.76	-47	Pass
1000	26000	1	1	25860.833	-48.29	-60.76	-47	Pass
1000	26000	1	1	25921.667	-48.32	-60.44	-47	Pass



802.11ax(HEW20)_MCH_5600MHz_SU / MIMO_NTNV

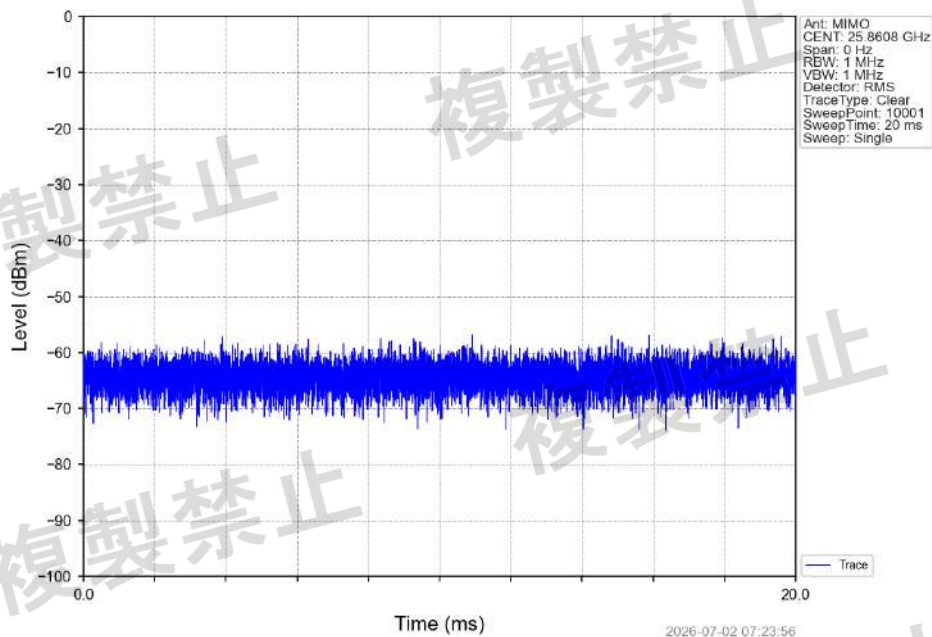


802.11ax(HEW20)_MCH_5600MHz_SU / MIMO_NTNV

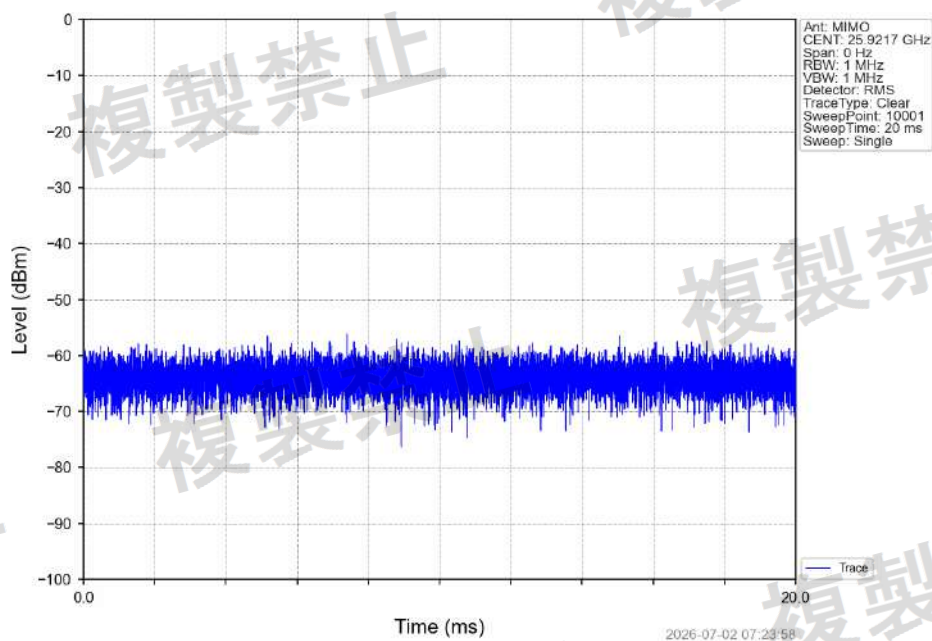




802.11ax(HEW20)_MCH_5600MHz_SU / MIMO_NTNV

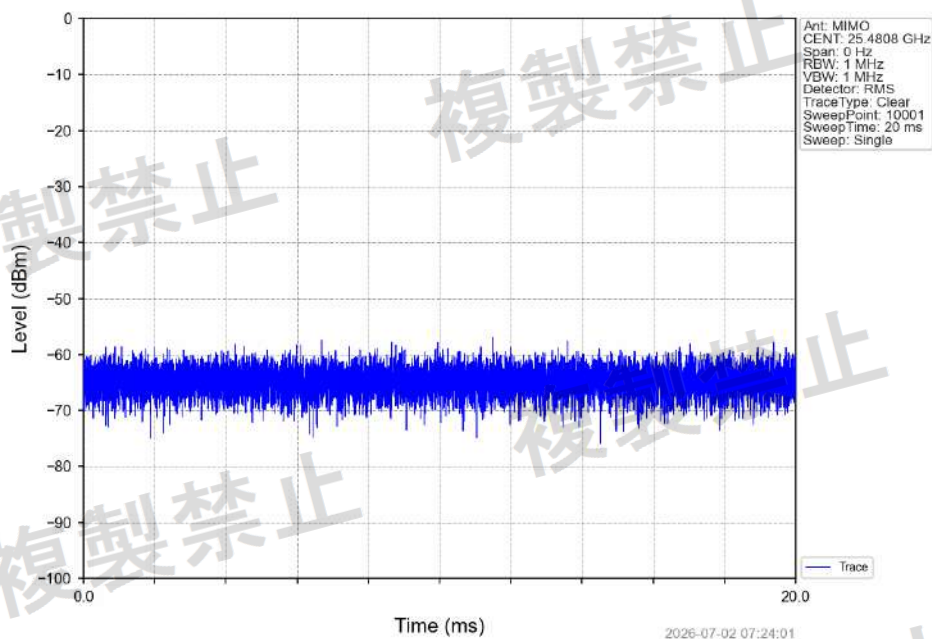


802.11ax(HEW20)_MCH_5600MHz_SU / MIMO_NTNV

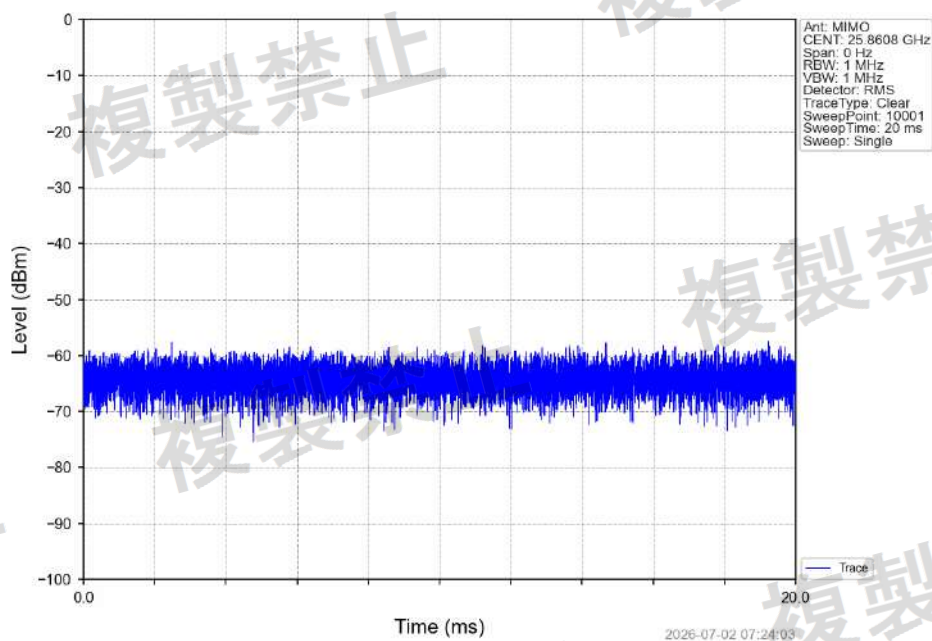




802.11ax(HEW20)_MCH_5600MHz_SU / MIMO_NTNV

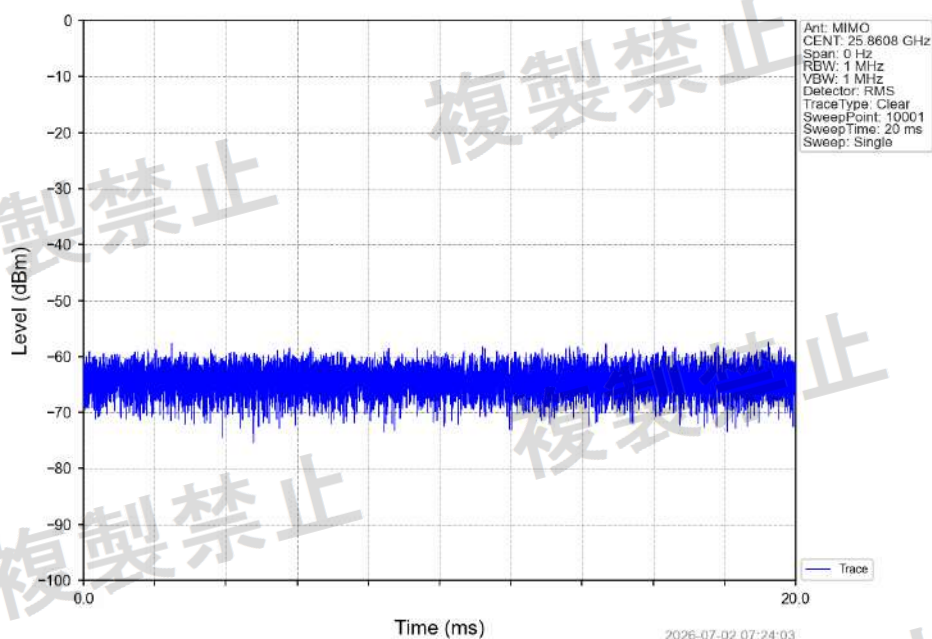


802.11ax(HEW20)_MCH_5600MHz_SU / MIMO_NTNV

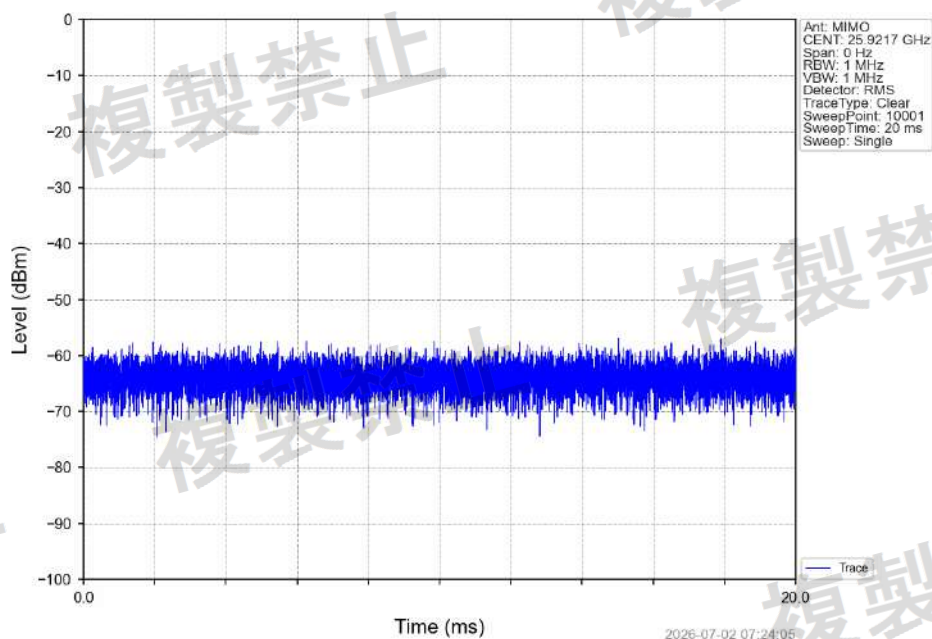




802.11ax(HEW20)_MCH_5600MHz_SU / MIMO_NTNV

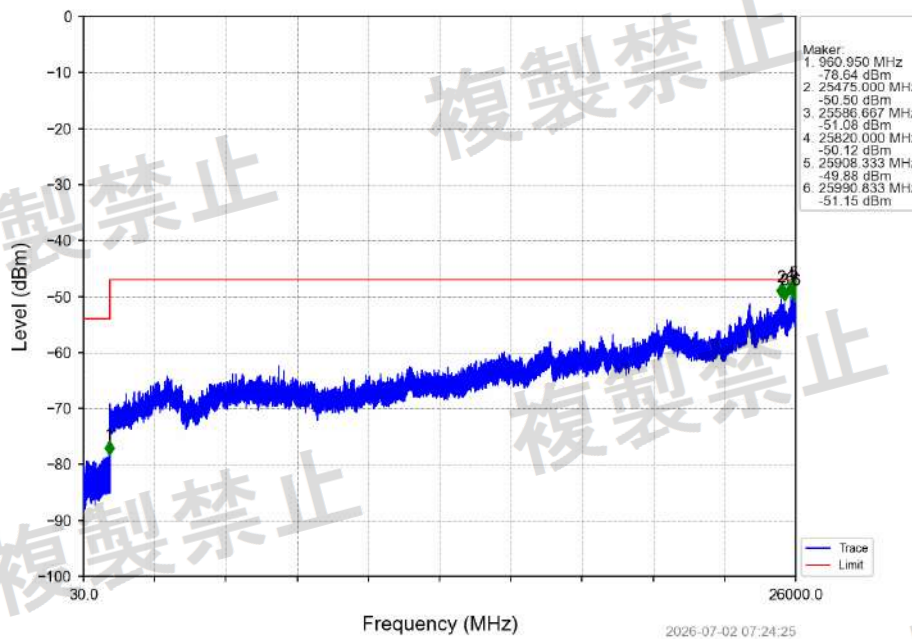


802.11ax(HEW20)_MCH_5600MHz_SU / MIMO_NTNV

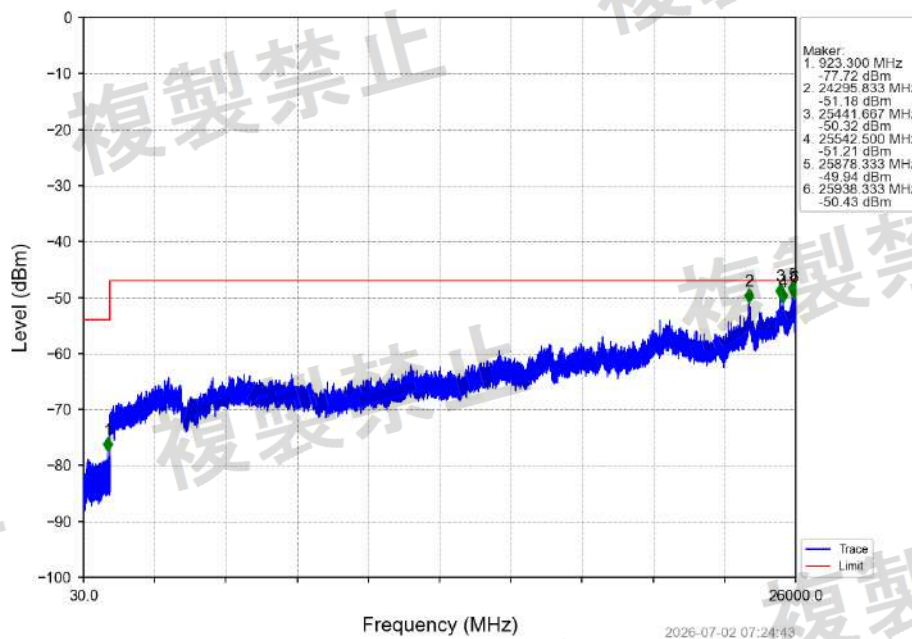




802.11ax(HEW20)_HCH_5700MHz_SU / Ant1_NTNV

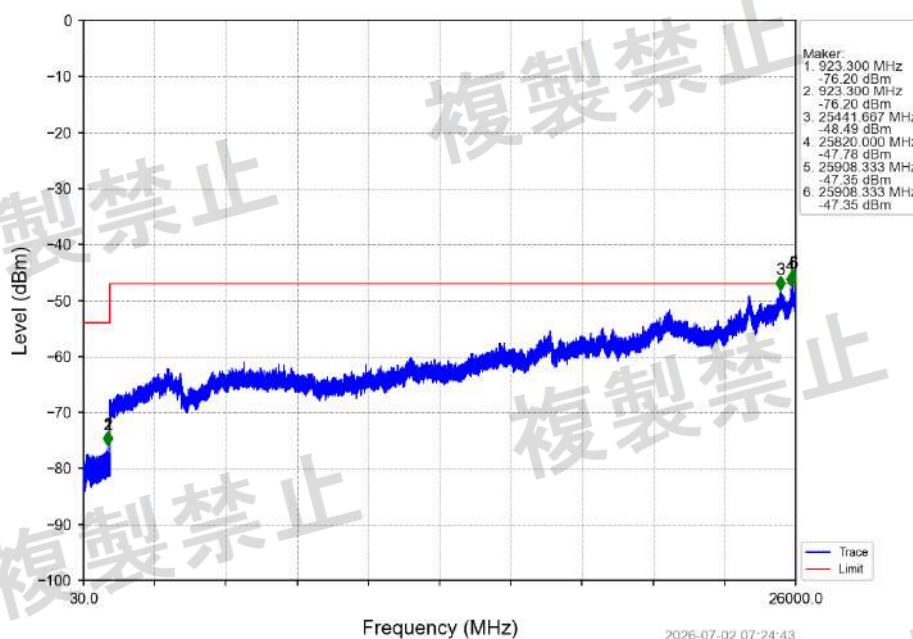


802.11ax(HEW20)_HCH_5700MHz_SU / Ant2_NTNV

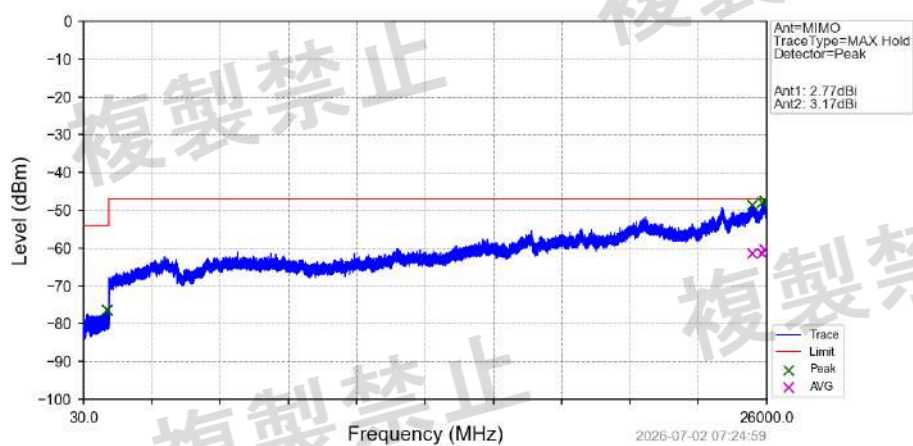




802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN



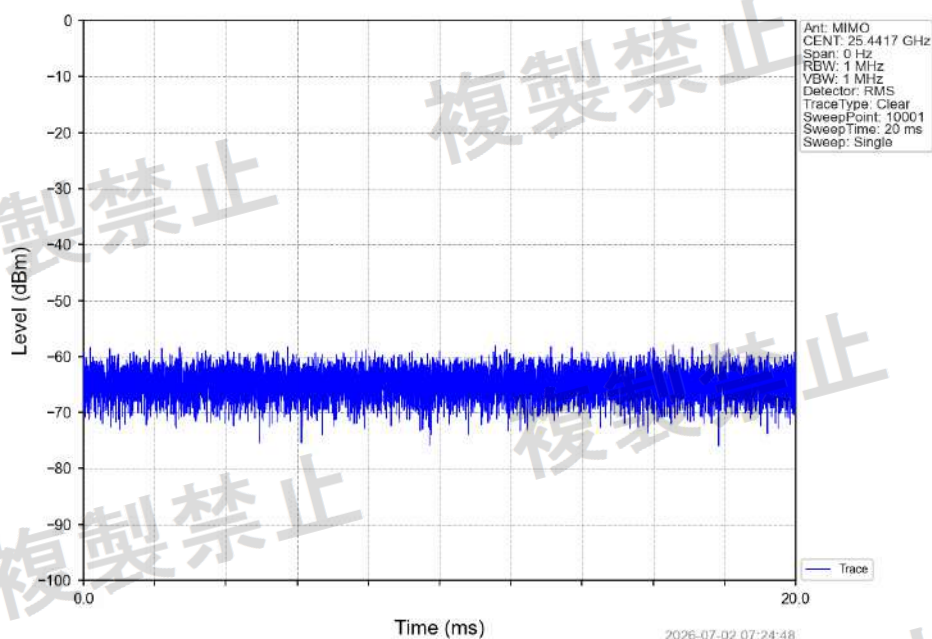
802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN



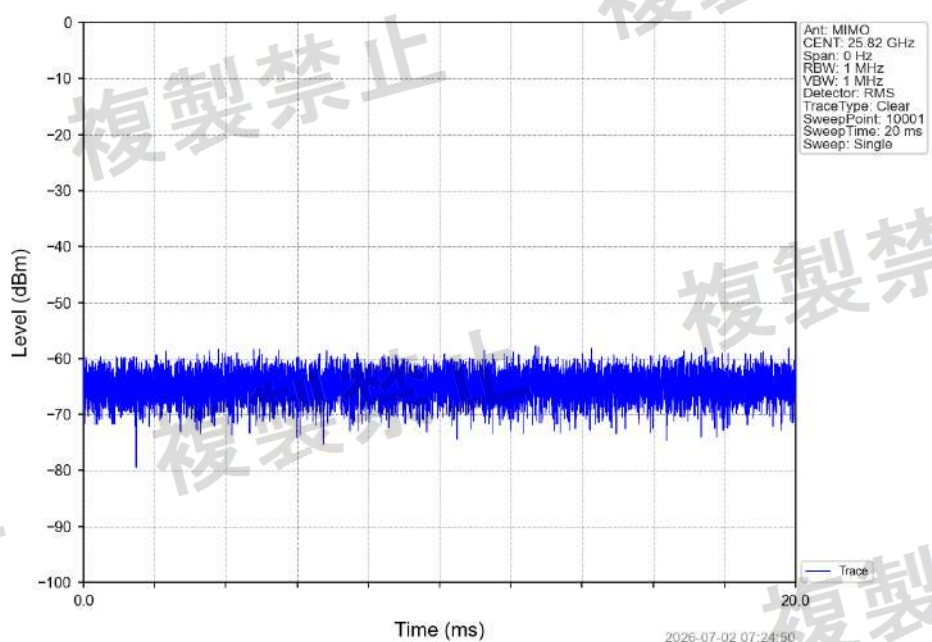
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	923.300	-76.20	/	-54	Pass
30	1000	0.1	0.1	923.300	-76.20	/	-54	Pass
1000	26000	1	1	25441.667	-48.49	-61.28	-47	Pass
1000	26000	1	1	25820.000	-47.78	-61.27	-47	Pass
1000	26000	1	1	25908.333	-47.35	-60.29	-47	Pass
1000	26000	1	1	25908.333	-47.35	-60.29	-47	Pass



802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN

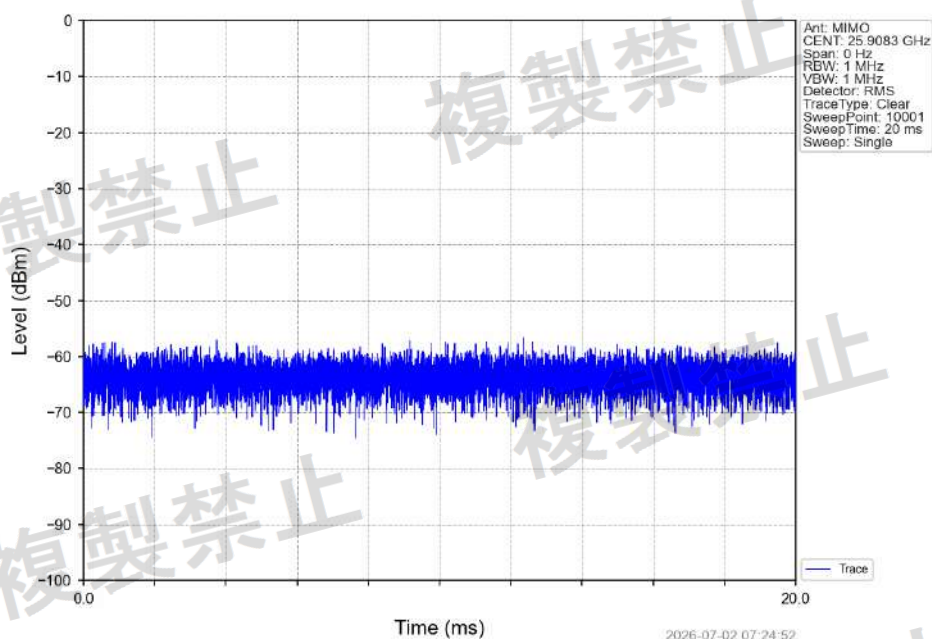


802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN

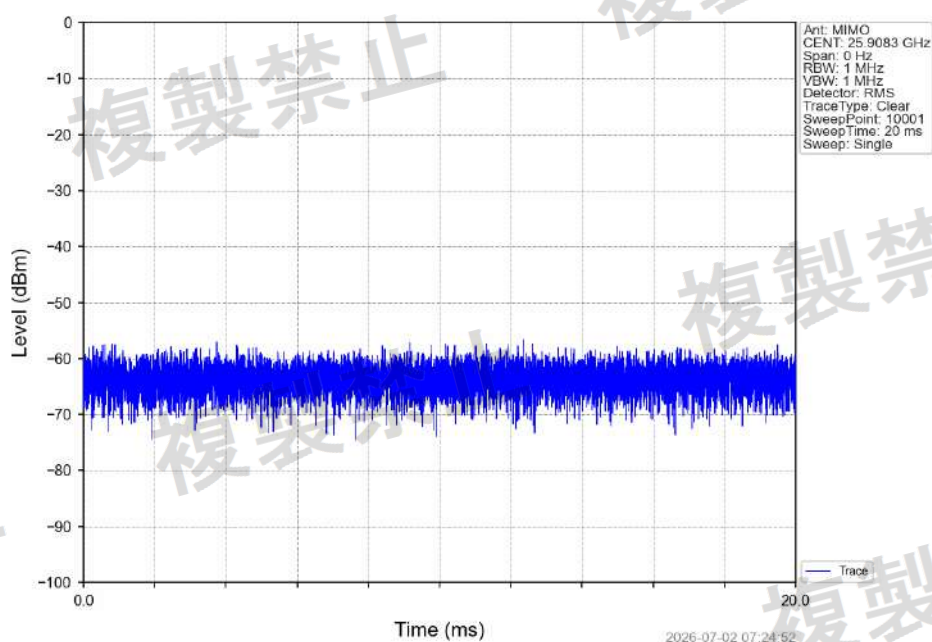




802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN

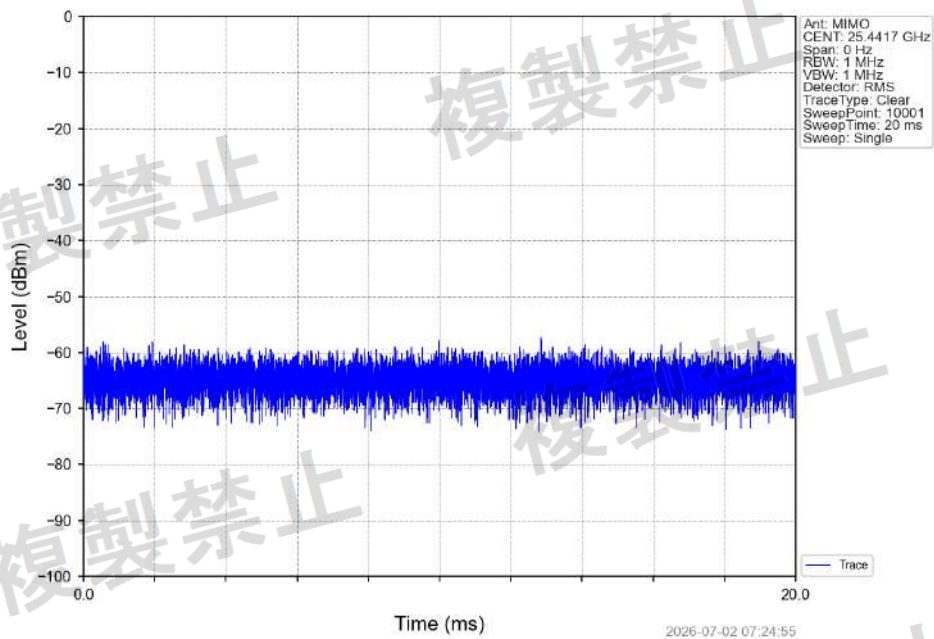


802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN

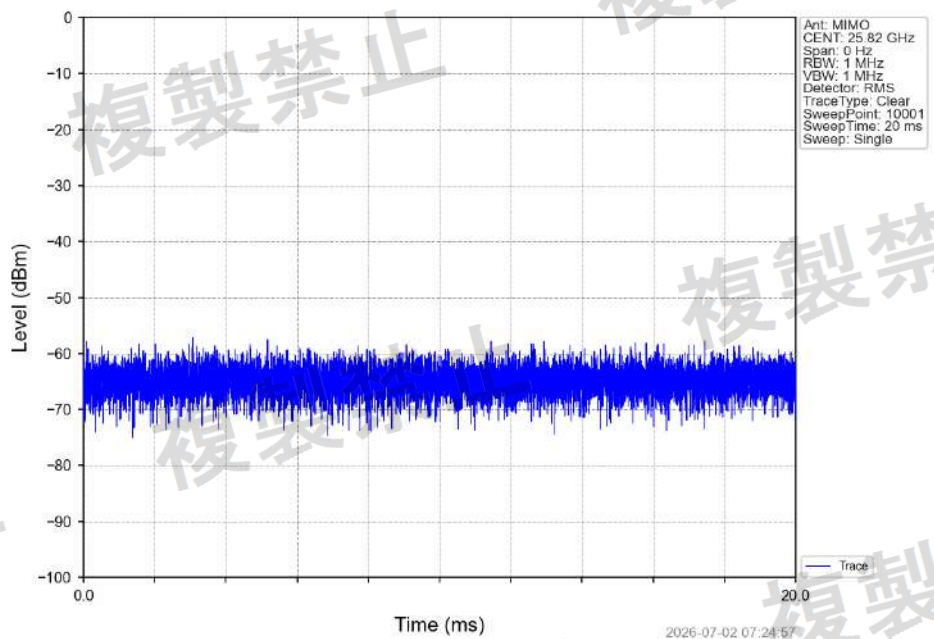




802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN

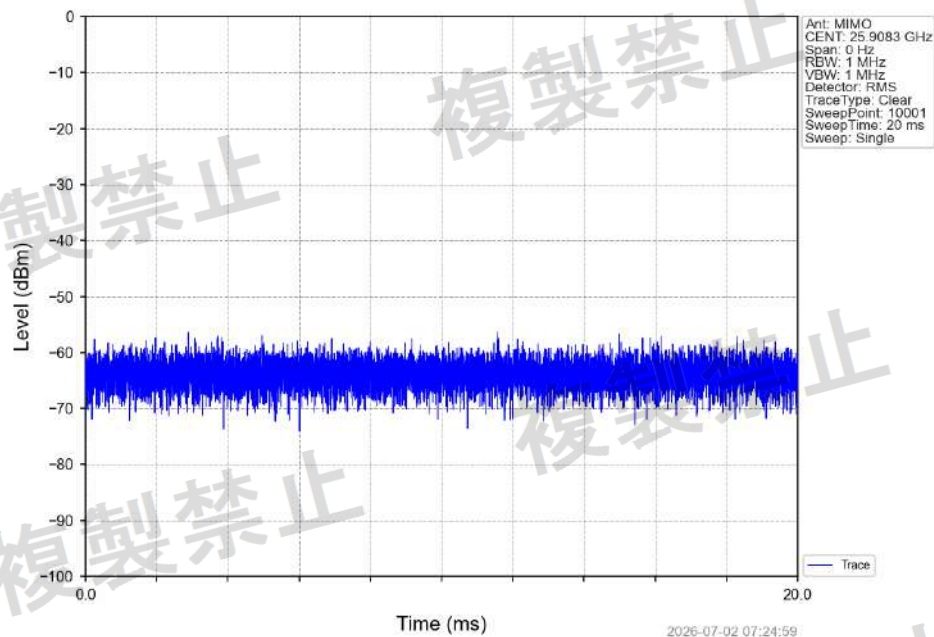


802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN

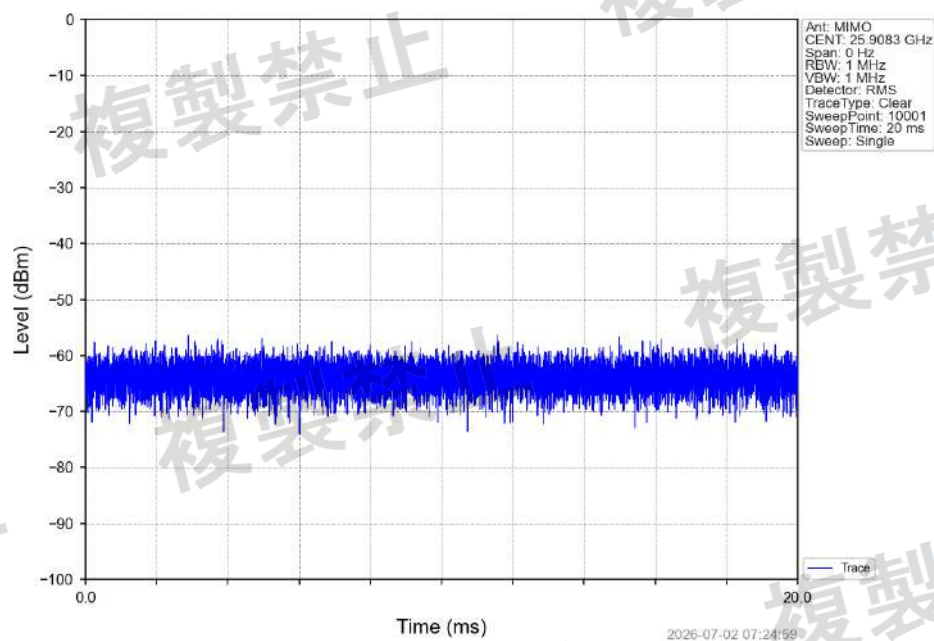




802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN

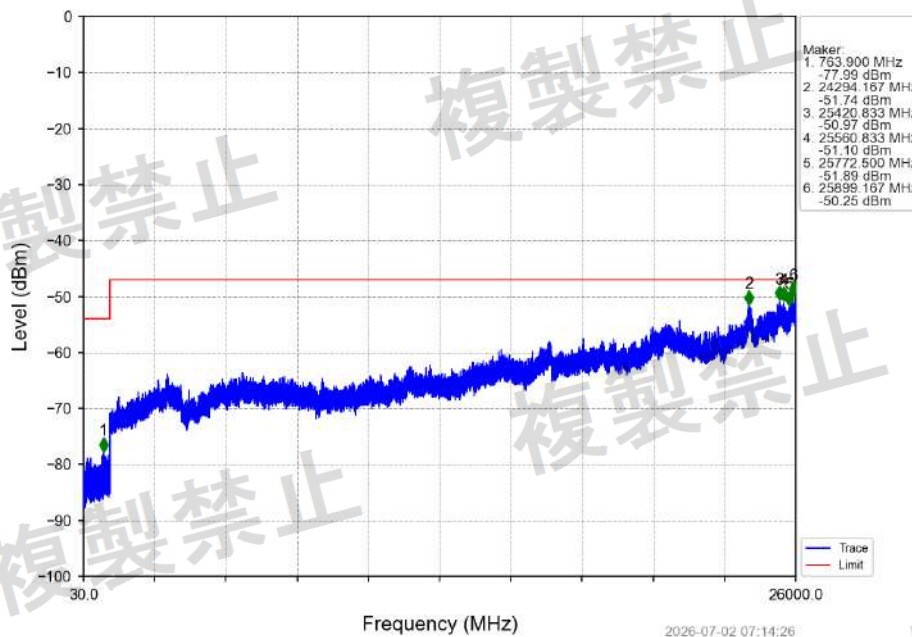


802.11ax(HEW20) HCH 5700MHz SU / MIMO NTN

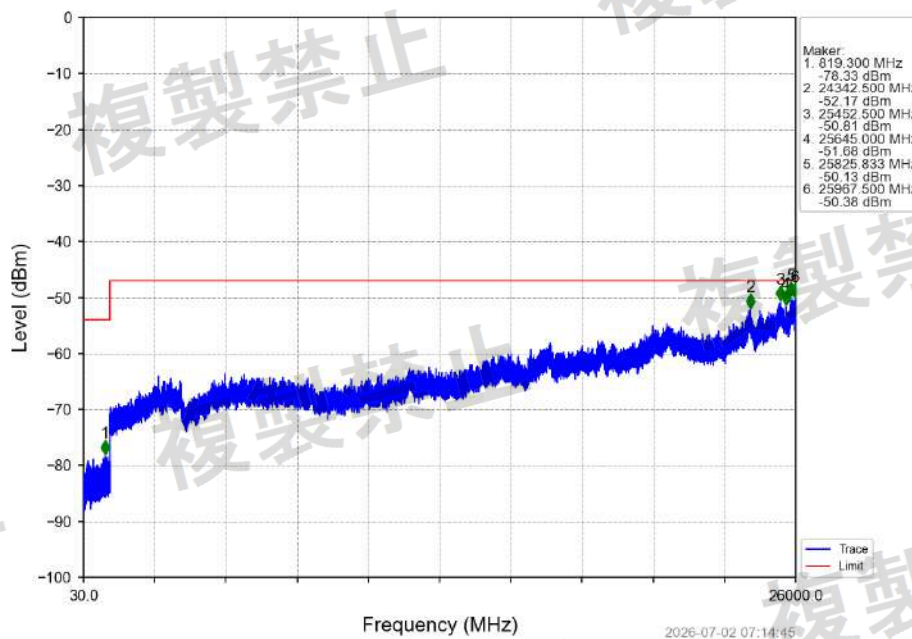




802.11ax(HEW40) LCH 5190MHz SU / Ant1 NTN

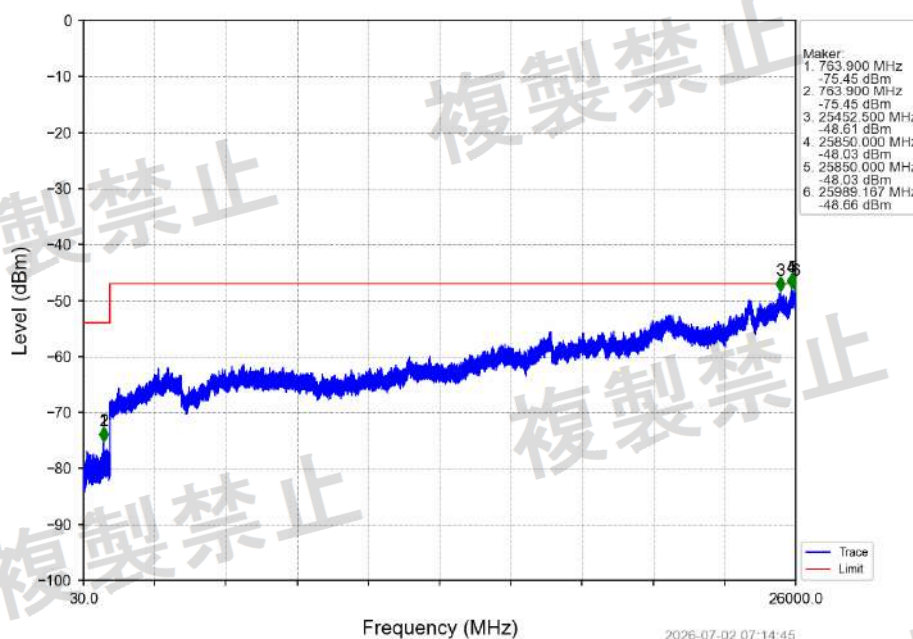


802.11ax(HEW40) LCH 5190MHz SU / Ant2 NTN

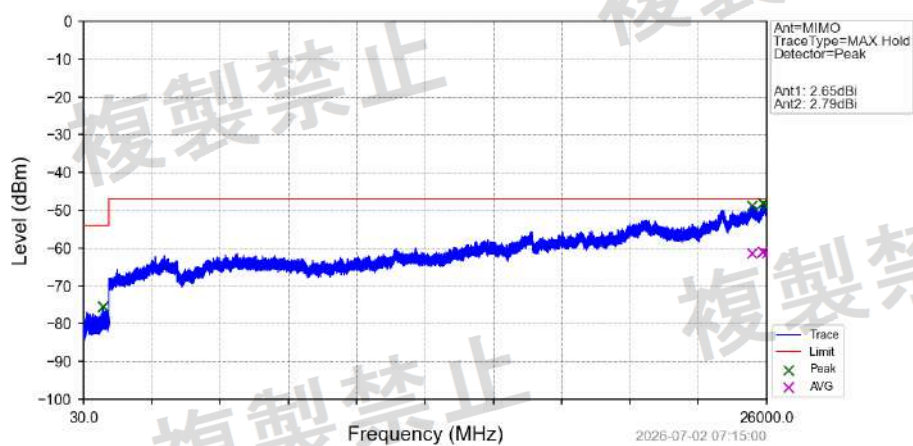




802.11ax(HEW40) LCH_5190MHz SU / MIMO NTN



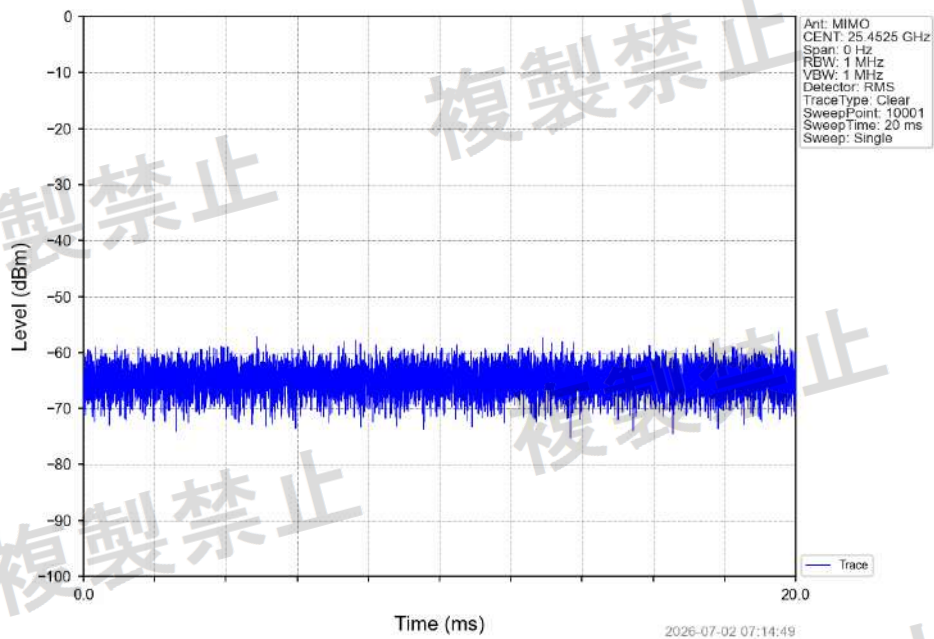
802.11ax(HEW40) LCH_5190MHz SU / MIMO NTN



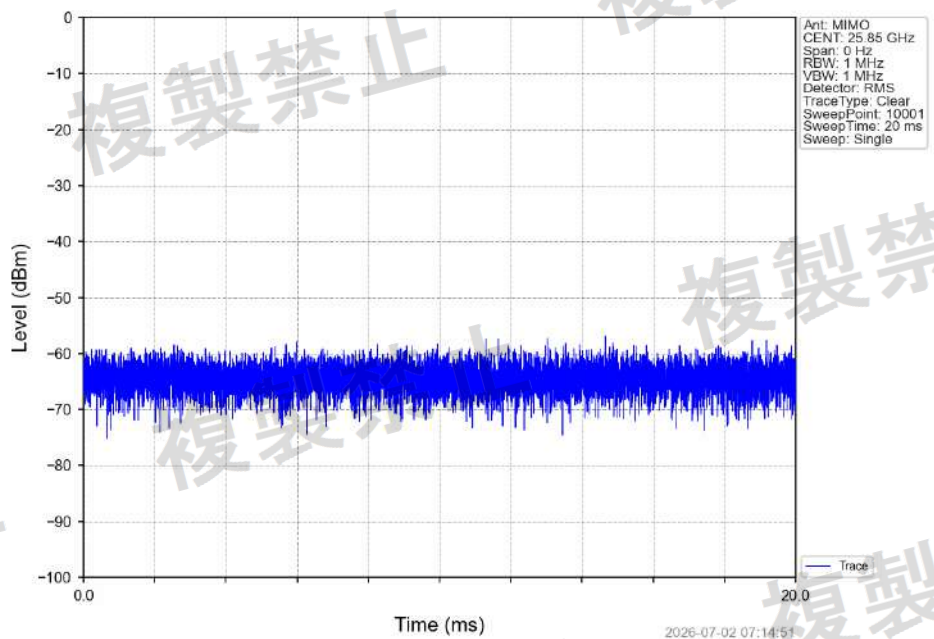
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	763.900	-75.45	/	-54	Pass
30	1000	0.1	0.1	763.900	-75.45	/	-54	Pass
1000	26000	1	1	25452.500	-48.61	-61.22	-47	Pass
1000	26000	1	1	25850.000	-48.03	-60.90	-47	Pass
1000	26000	1	1	25850.000	-48.03	-60.90	-47	Pass
1000	26000	1	1	25989.167	-48.66	-61.35	-47	Pass



802.11ax(HEW40) LCH_5190MHz_SU / MIMO NTN

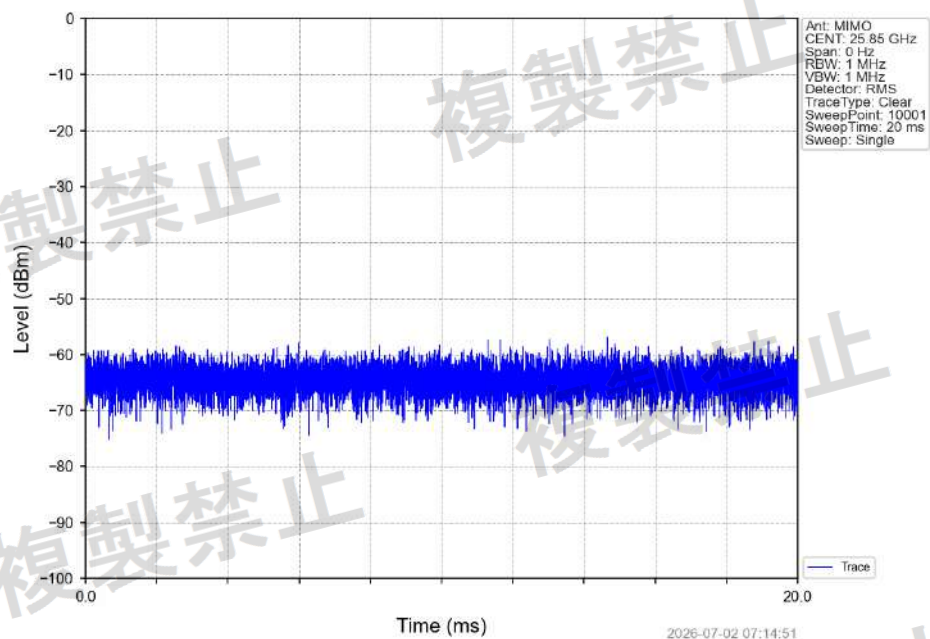


802.11ax(HEW40) LCH_5190MHz_SU / MIMO NTN

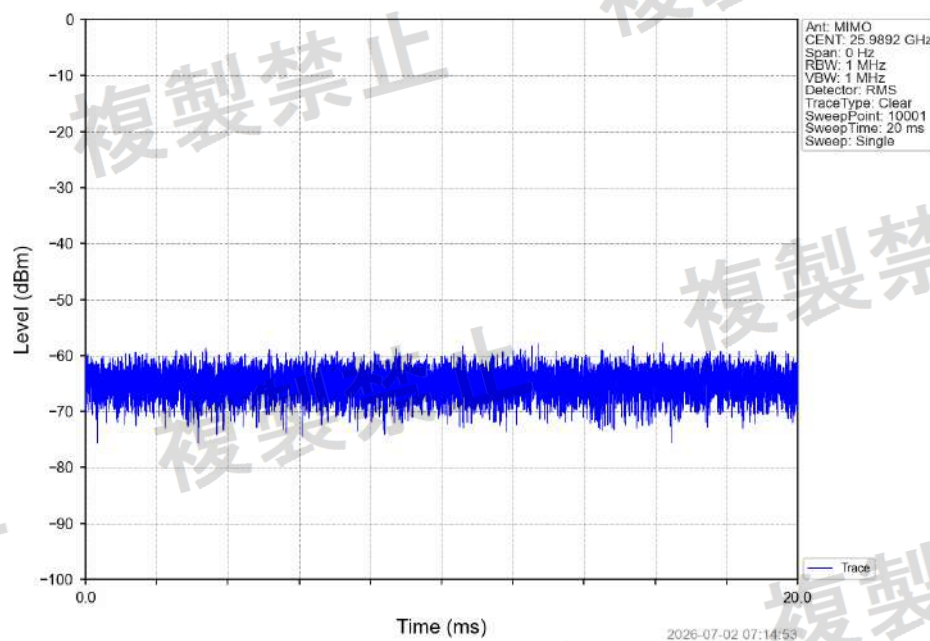




802.11ax(HEW40) LCH_5190MHz_SU / MIMO NTN

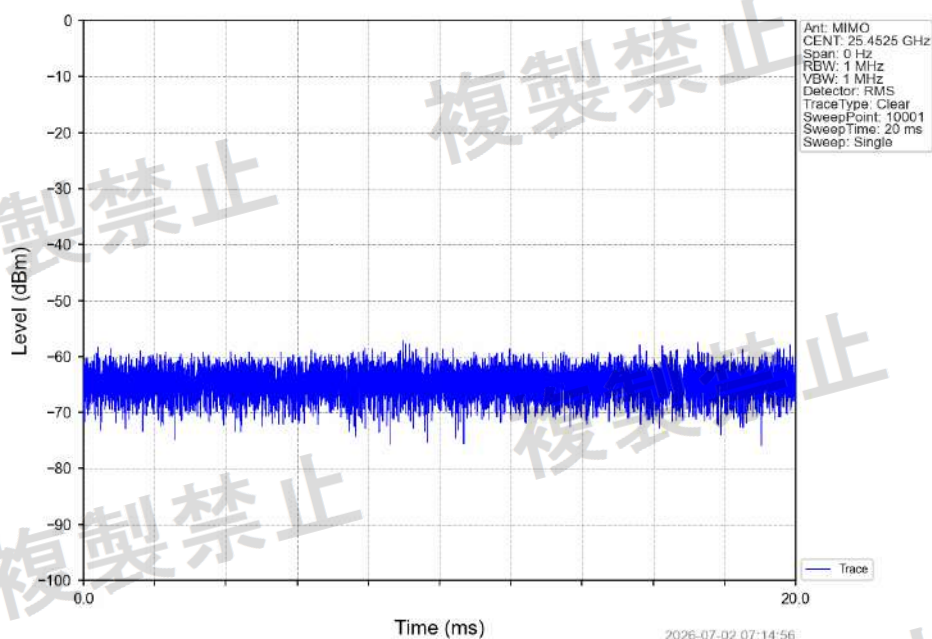


802.11ax(HEW40) LCH_5190MHz_SU / MIMO NTN

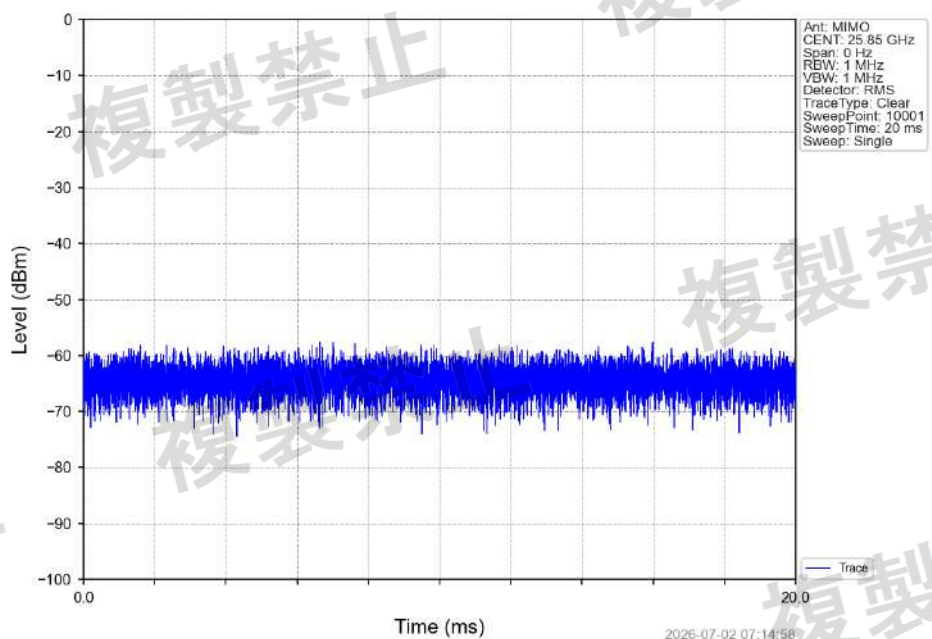




802.11ax(HEW40) LCH 5190MHz SU / MIMO NTN

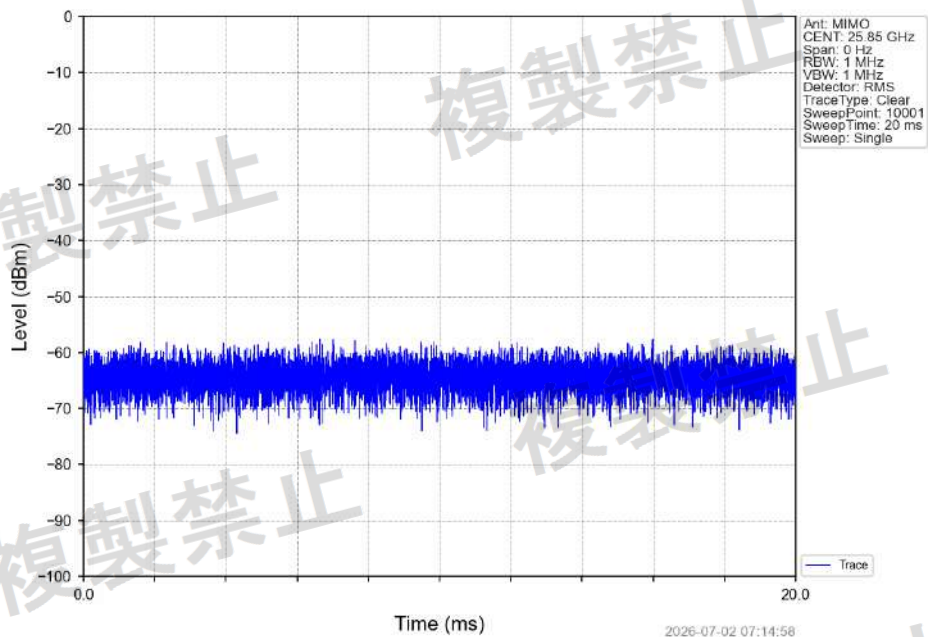


802.11ax(HEW40) LCH 5190MHz SU / MIMO NTN

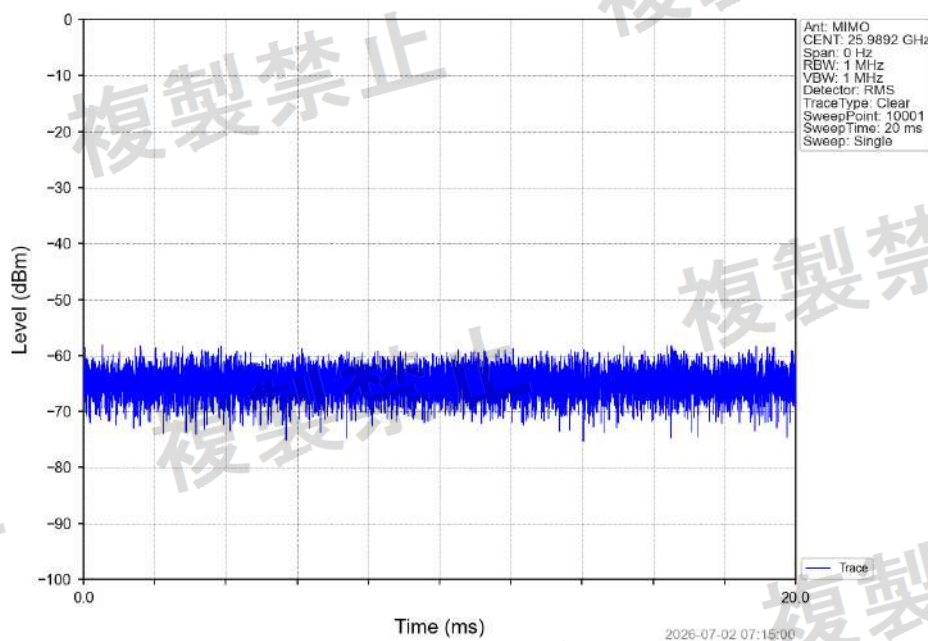




802.11ax(HEW40) LCH 5190MHz SU / MIMO NTN

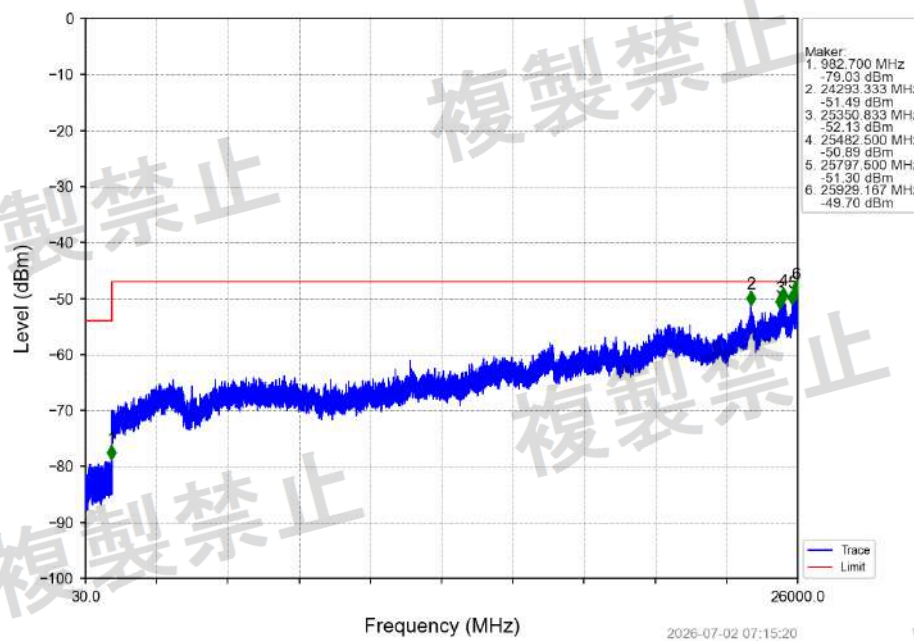


802.11ax(HEW40) LCH 5190MHz SU / MIMO NTN

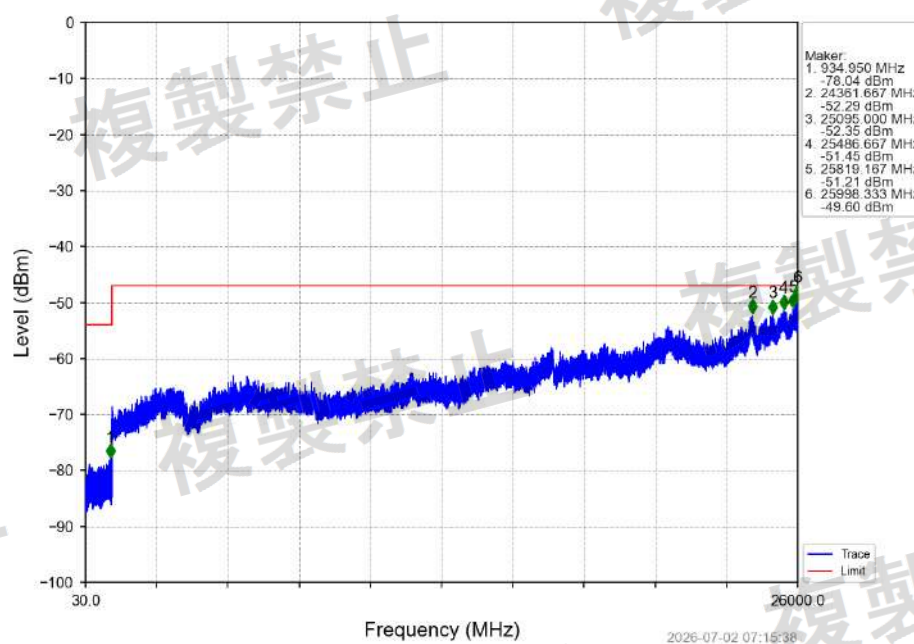




802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTN

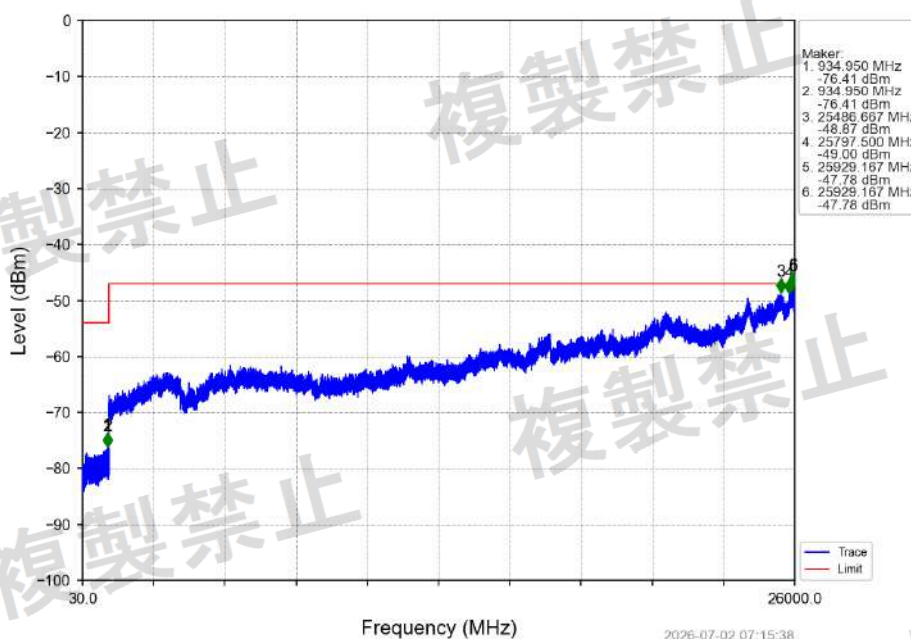


802.11ax(HEW40) HCH 5230MHz SU / Ant2 NTN

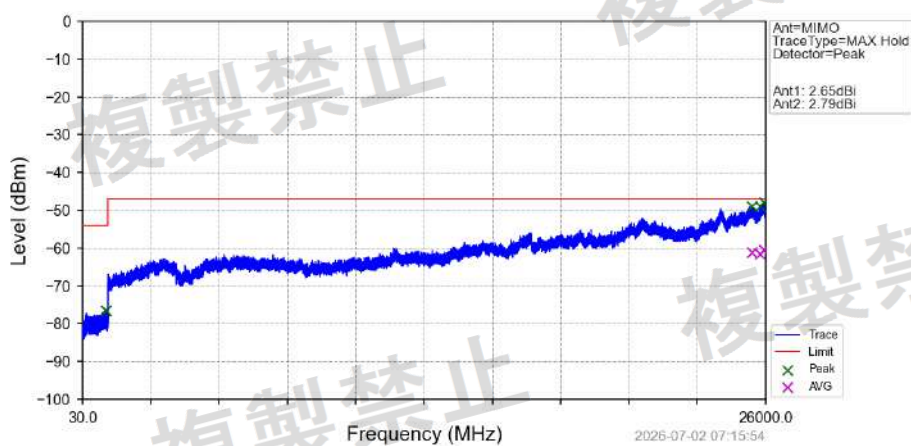




802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN



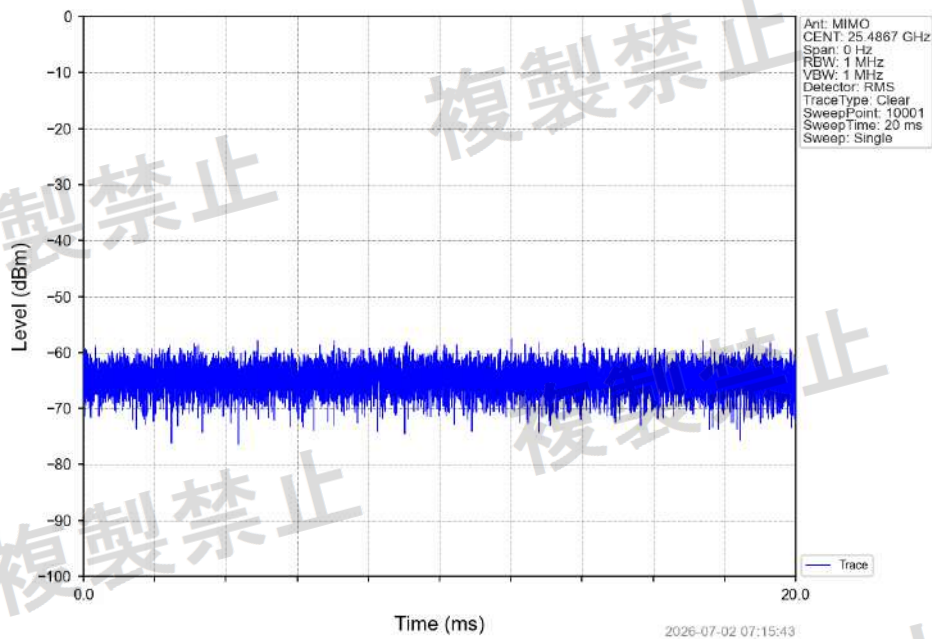
802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN



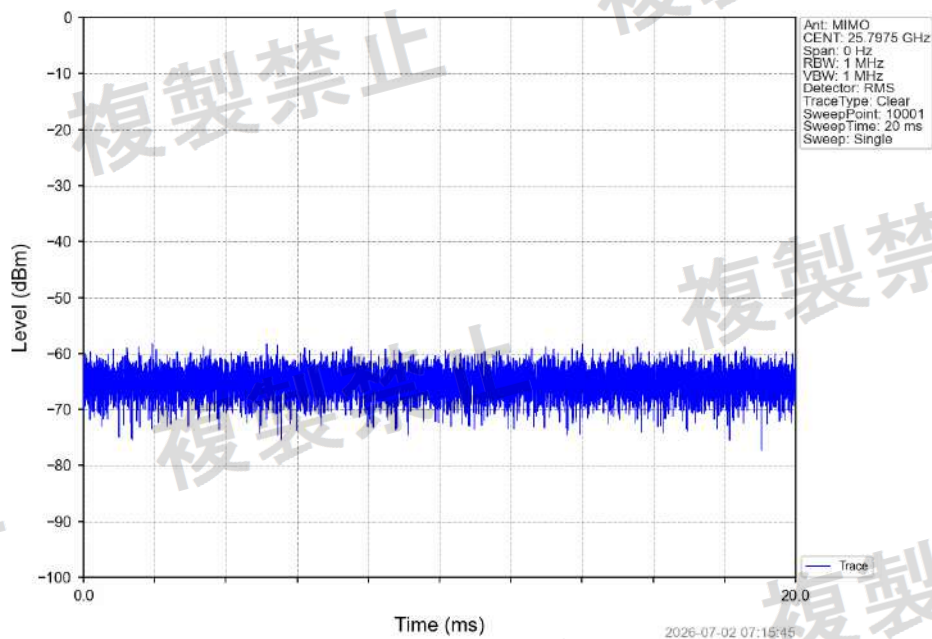
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	934.950	-76.41	/	-54	Pass
30	1000	0.1	0.1	934.950	-76.41	/	-54	Pass
1000	26000	1	1	25486.667	-48.87	-61.14	-47	Pass
1000	26000	1	1	25797.500	-49.00	-61.62	-47	Pass
1000	26000	1	1	25929.167	-47.78	-60.49	-47	Pass
1000	26000	1	1	25929.167	-47.78	-60.49	-47	Pass



802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN

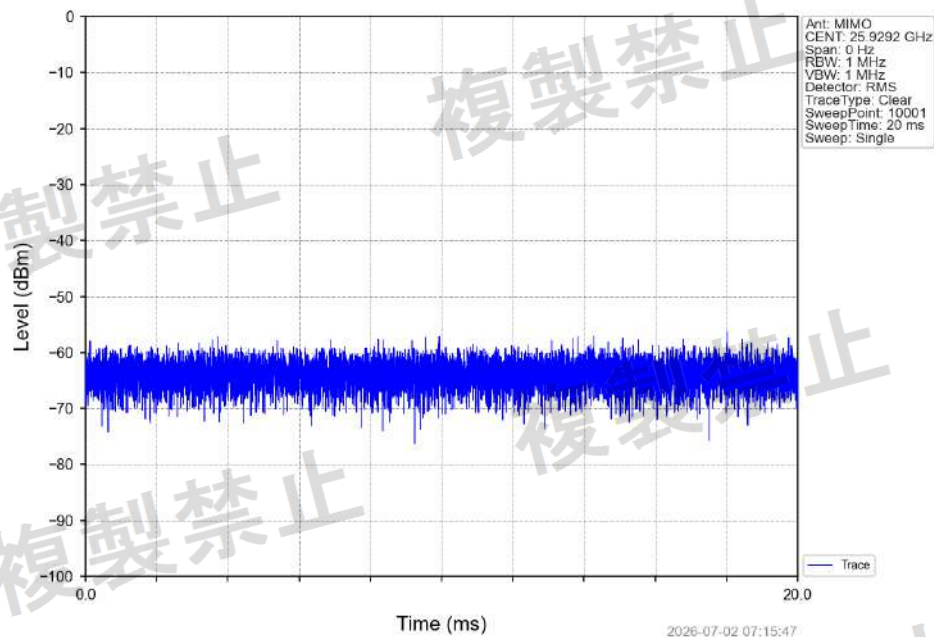


802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN

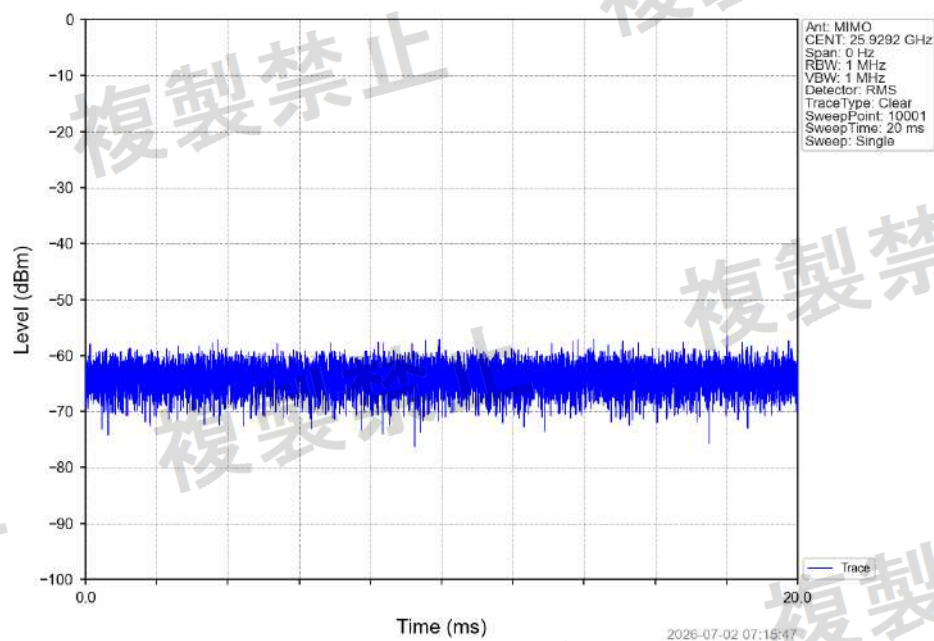




802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN

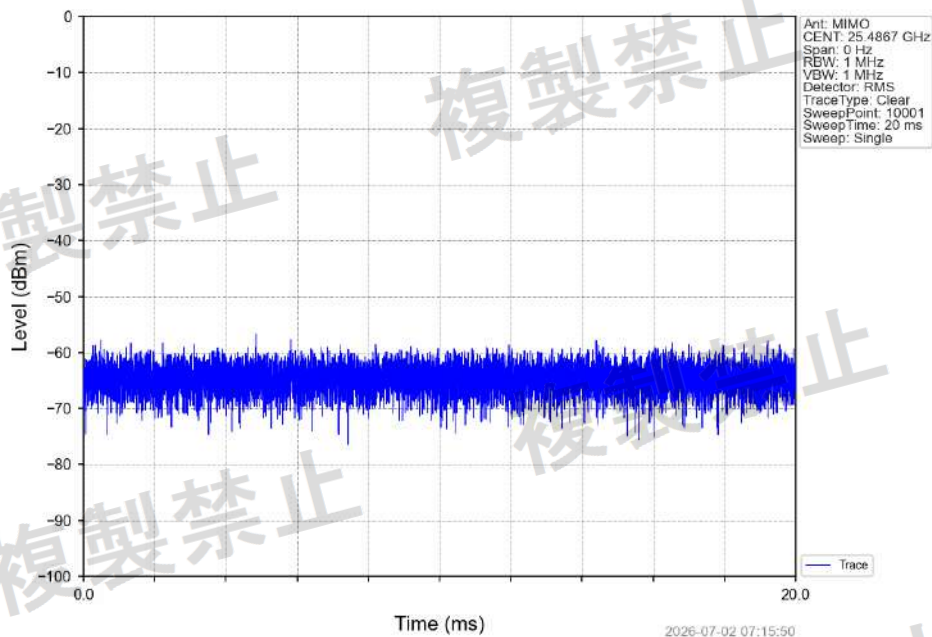


802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN

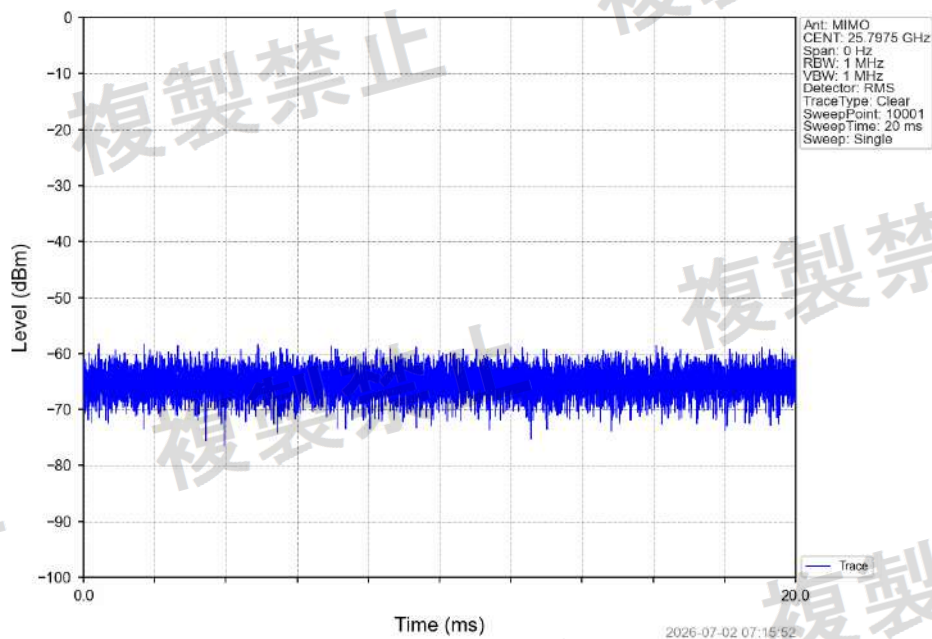




802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN

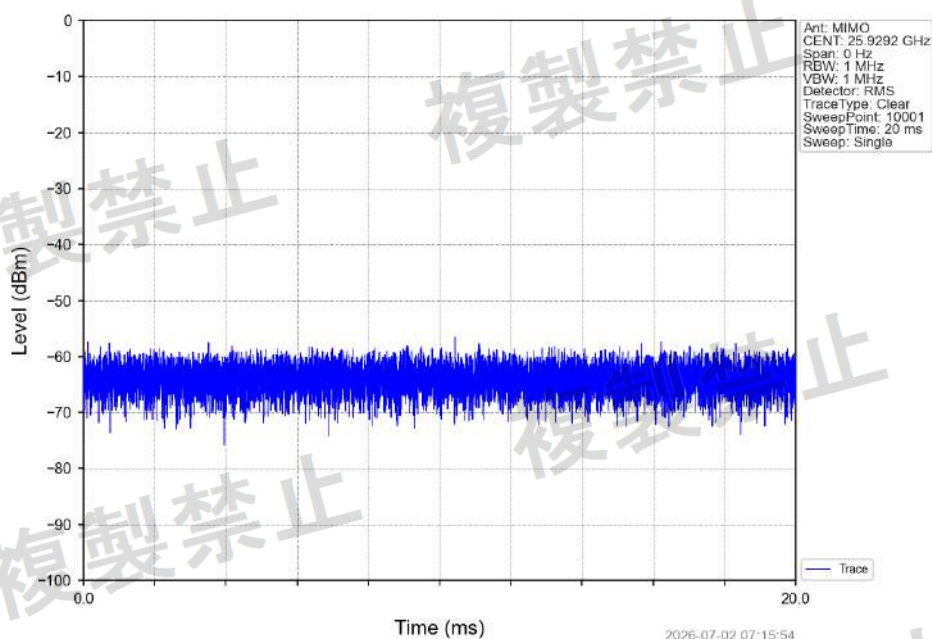


802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN

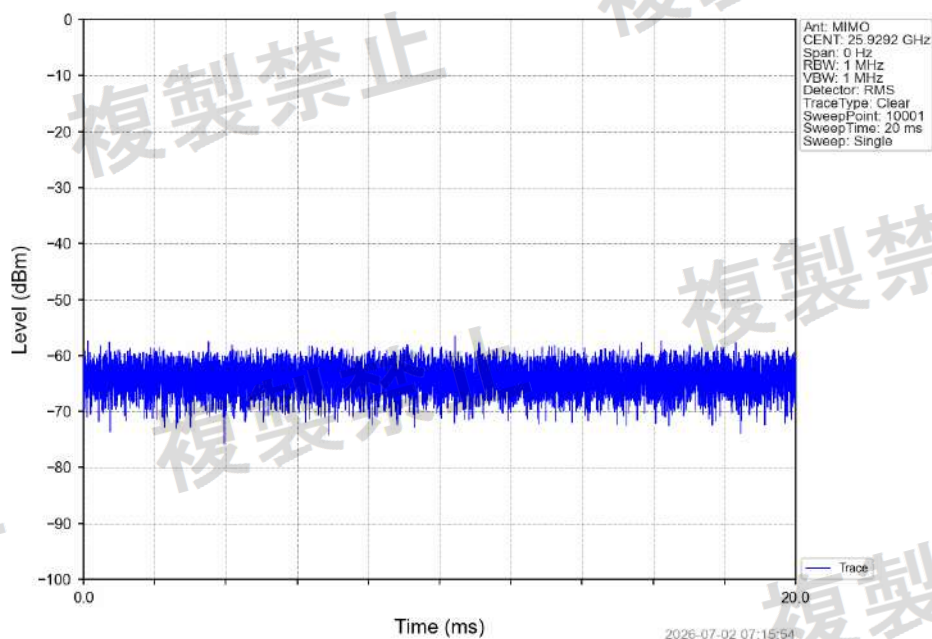




802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN

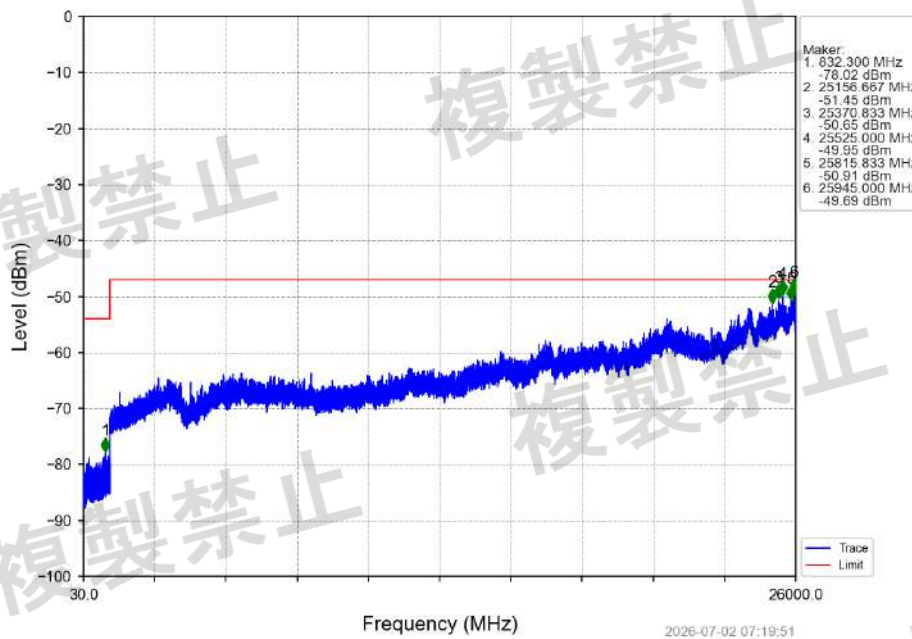


802.11ax(HEW40) HCH 5230MHz SU / MIMO NTN

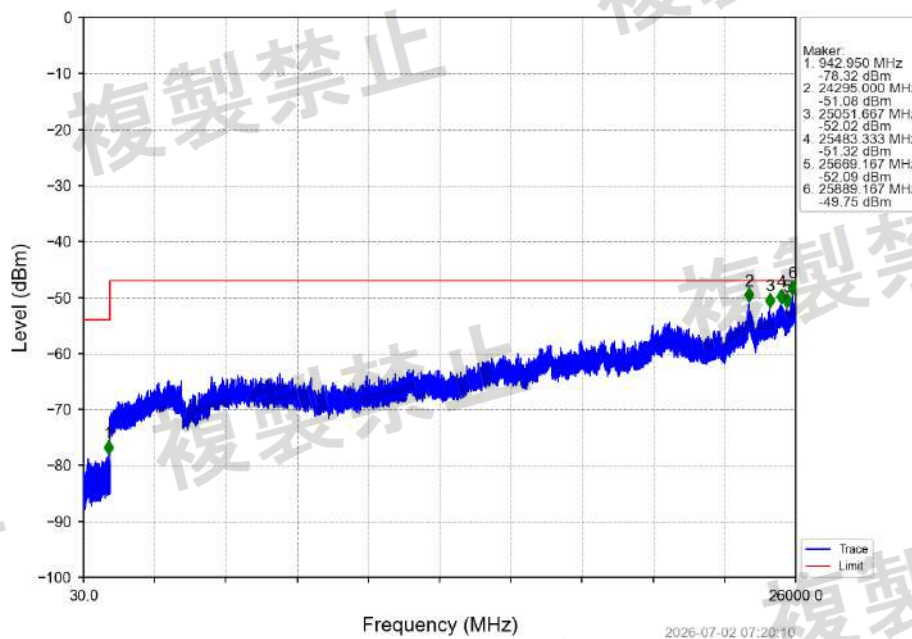




802.11ax(HEW40) LCH 5270MHz SU / Ant1 NTN

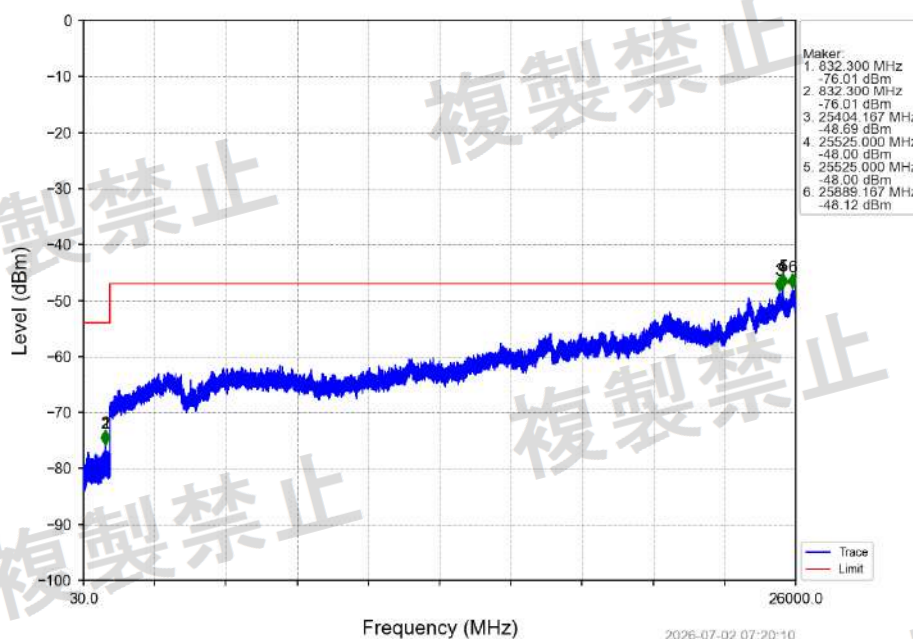


802.11ax(HEW40) LCH 5270MHz SU / Ant2 NTN

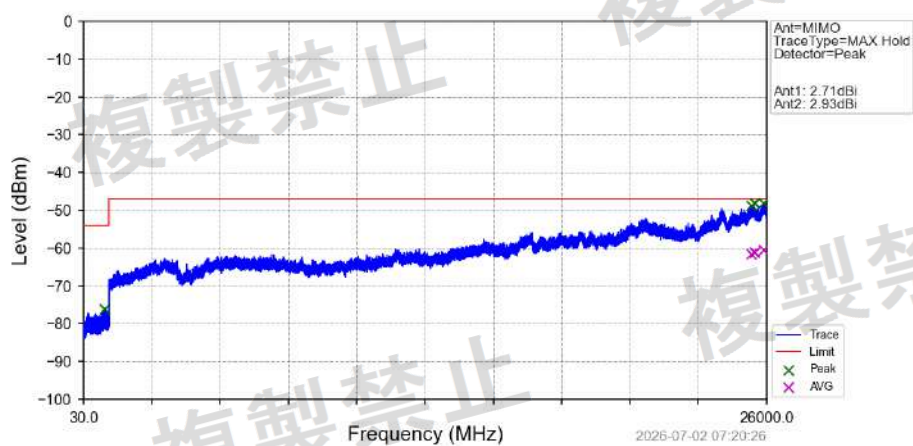




802.11ax(HEW40) LCH_5270MHz SU / MIMO NTN



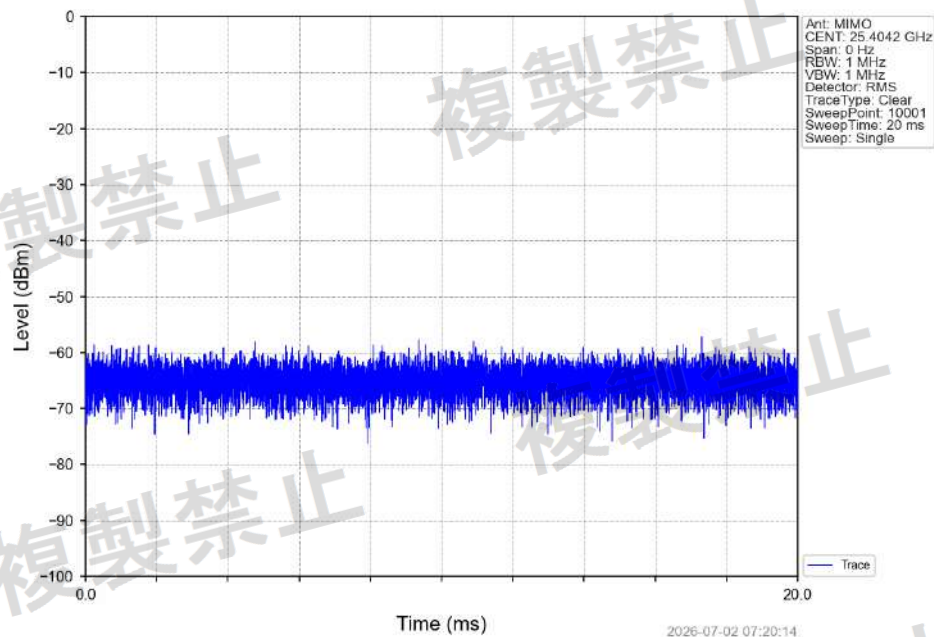
802.11ax(HEW40) LCH_5270MHz SU / MIMO NTN



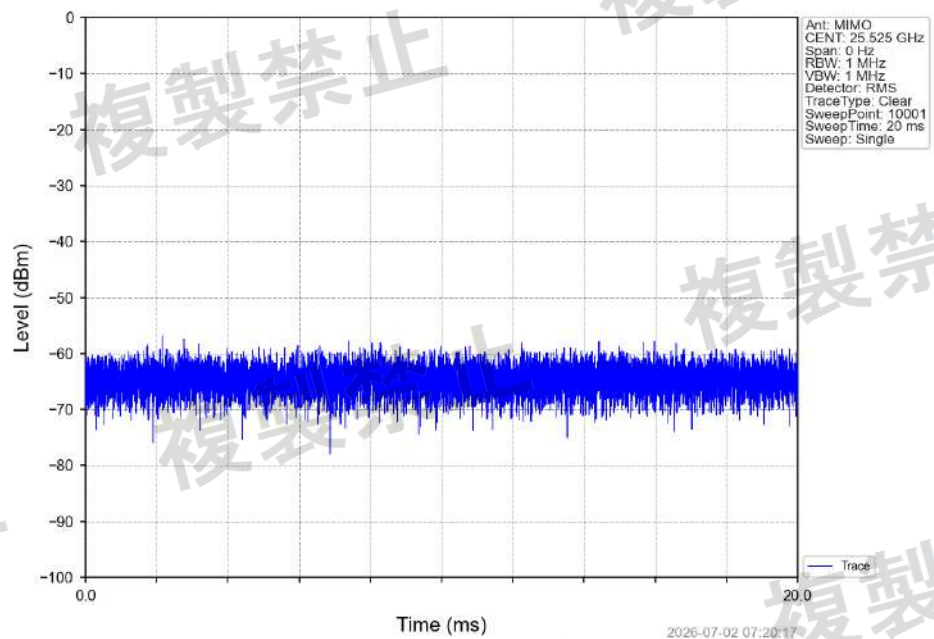
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	832.300	-76.01	/	-54	Pass
30	1000	0.1	0.1	832.300	-76.01	/	-54	Pass
1000	26000	1	1	25404.167	-48.69	-61.54	-47	Pass
1000	26000	1	1	25525.000	-48.00	-61.07	-47	Pass
1000	26000	1	1	25525.000	-48.00	-61.07	-47	Pass
1000	26000	1	1	25889.167	-48.12	-60.50	-47	Pass



802.11ax(HEW40) LCH_5270MHz_SU / MIMO NTN

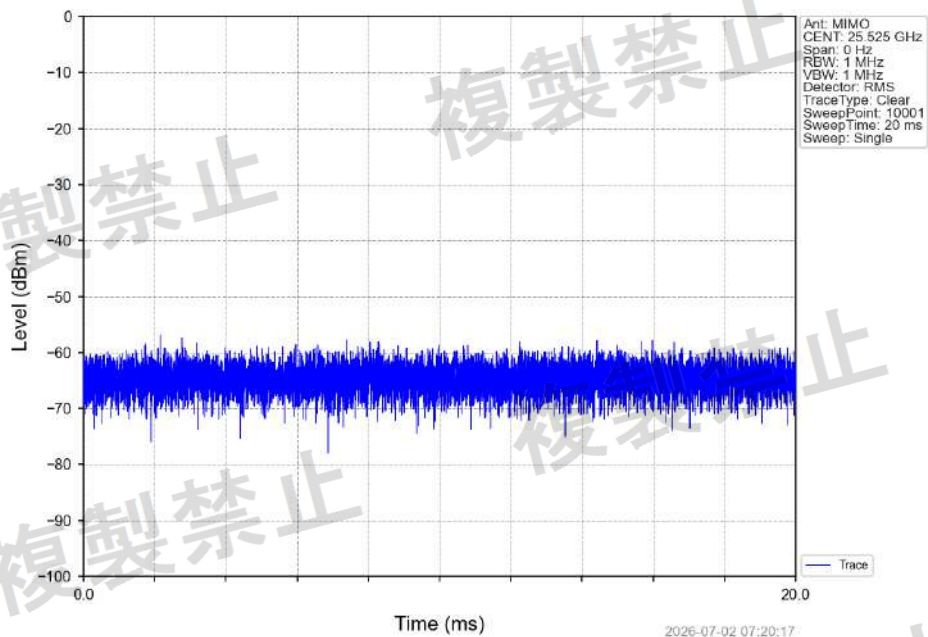


802.11ax(HEW40) LCH_5270MHz_SU / MIMO NTN

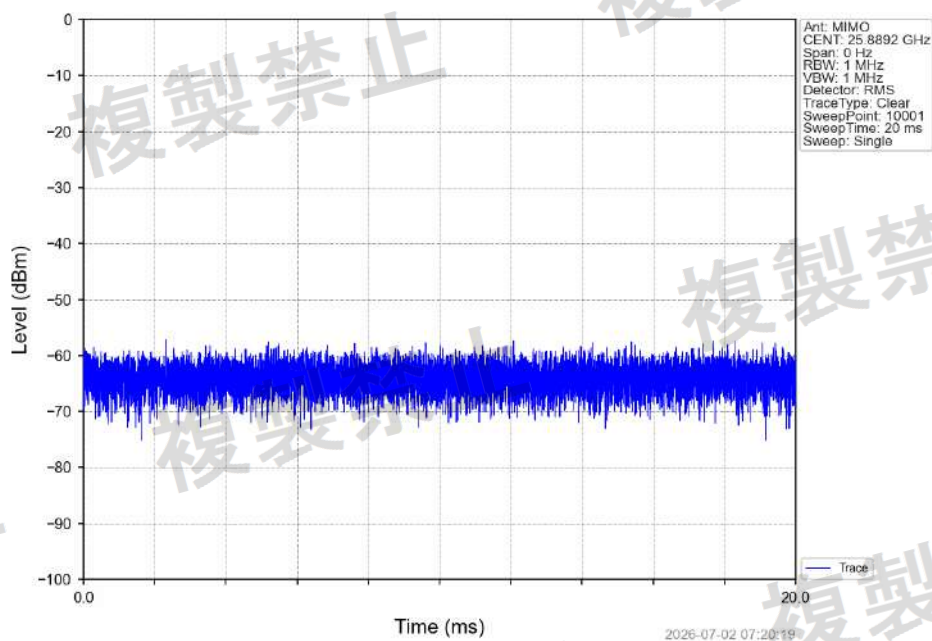




802.11ax(HEW40) LCH_5270MHz_SU / MIMO NTN

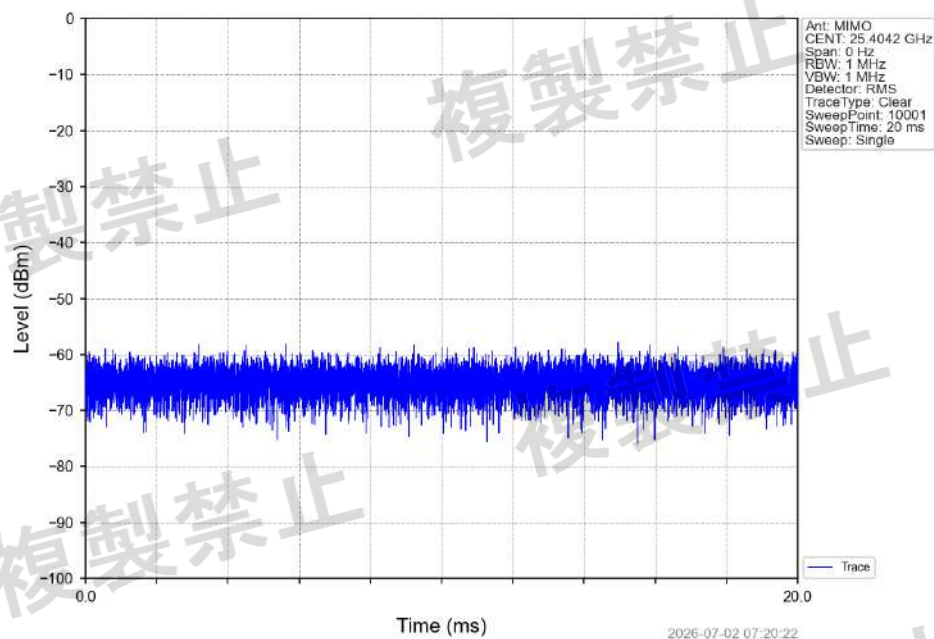


802.11ax(HEW40) LCH_5270MHz_SU / MIMO NTN

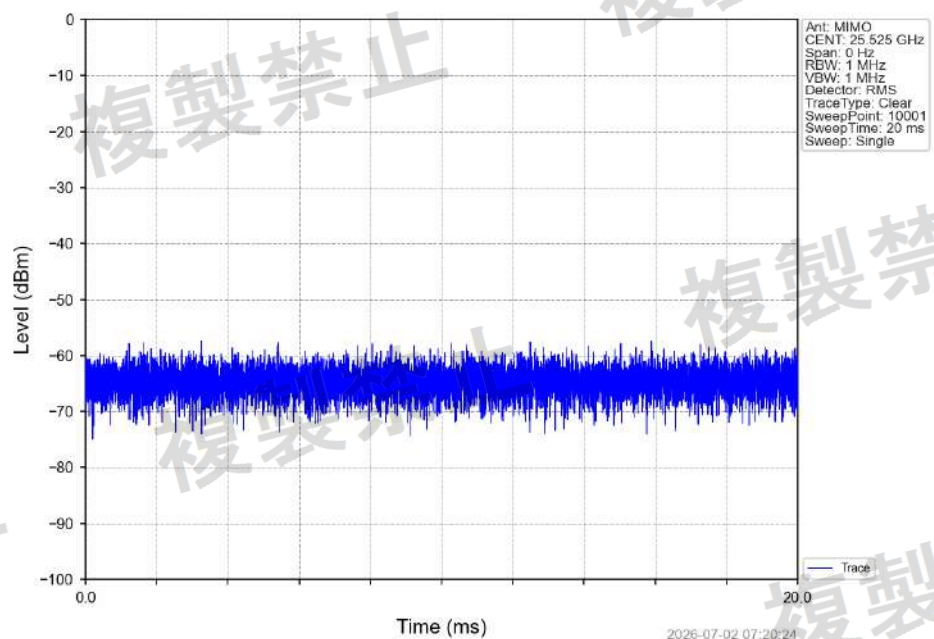




802.11ax(HEW40) LCH_5270MHz_SU / MIMO NTN

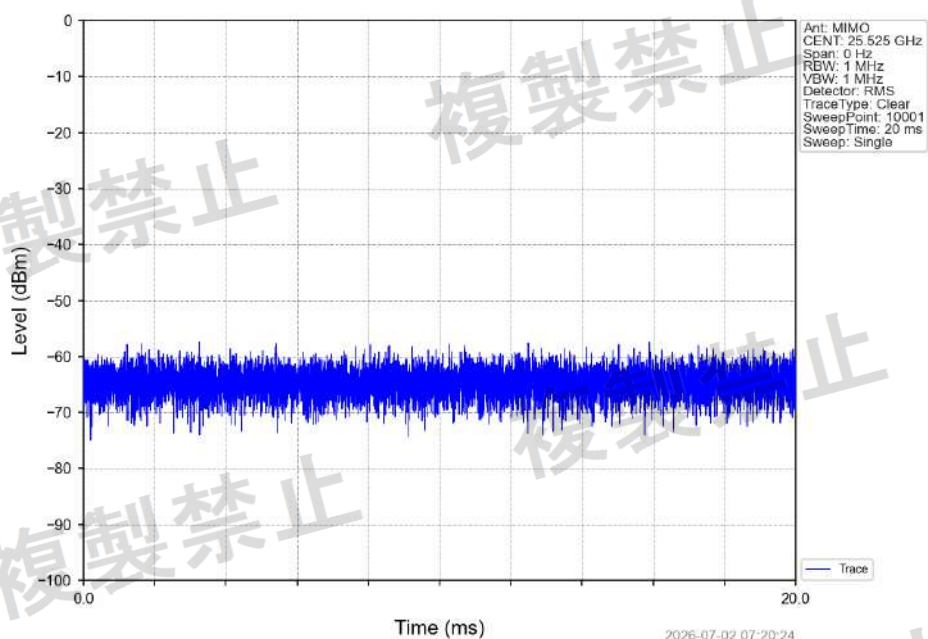


802.11ax(HEW40) LCH_5270MHz_SU / MIMO NTN

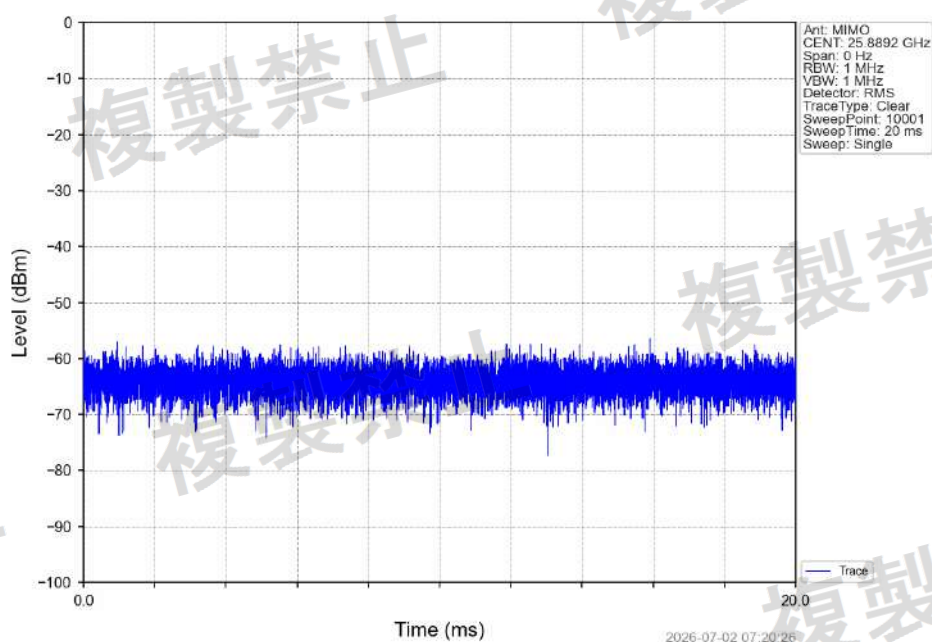




802.11ax(HEW40) LCH_5270MHz_SU / MIMO NTN

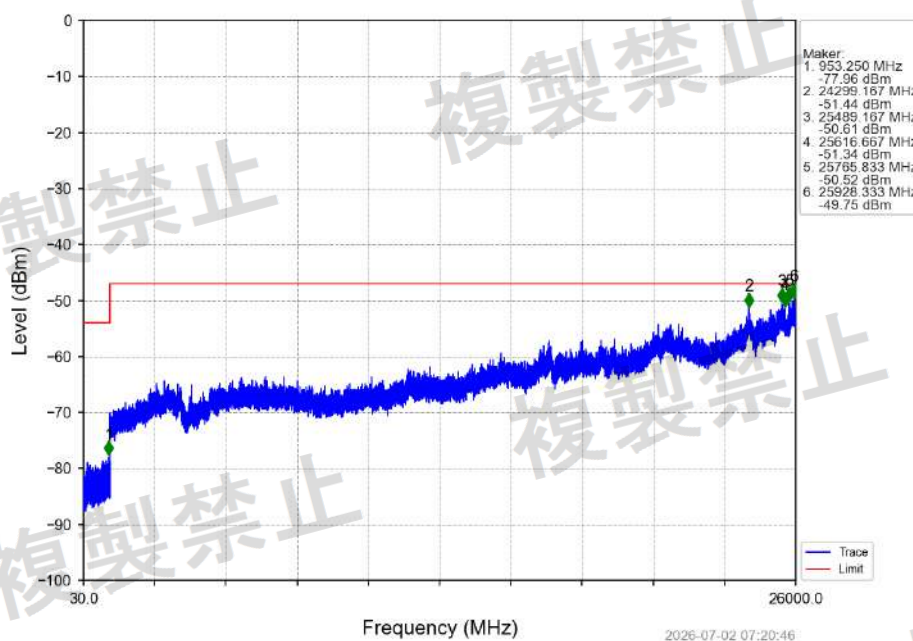


802.11ax(HEW40) LCH_5270MHz_SU / MIMO NTN

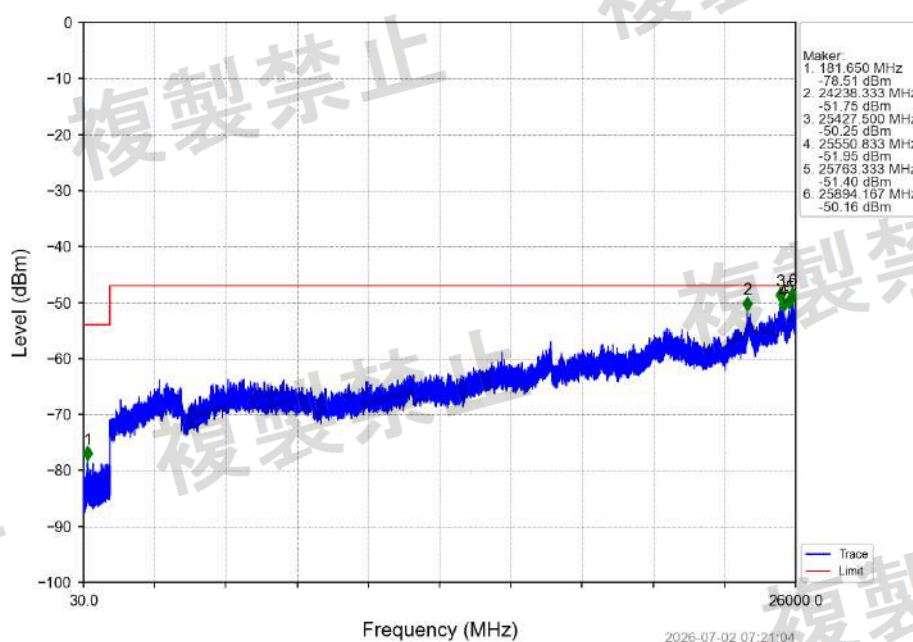




802.11ax(HEW40) HCH 5310MHz SU / Ant1 NTN

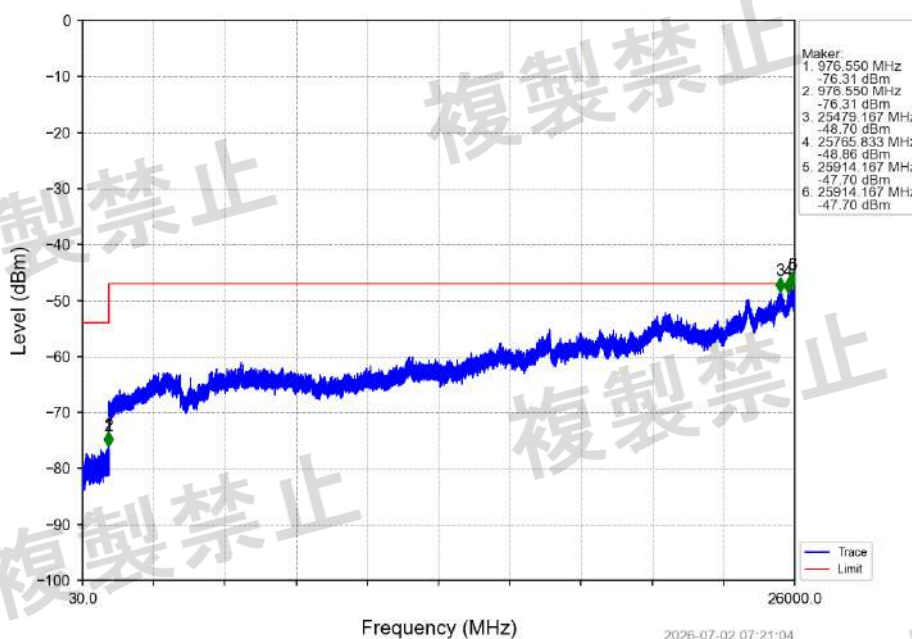


802.11ax(HEW40) HCH 5310MHz SU / Ant2 NTN

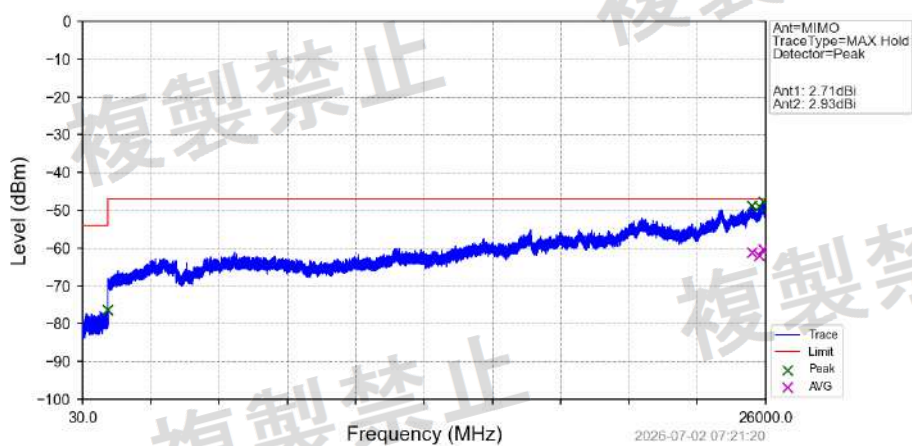




802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN



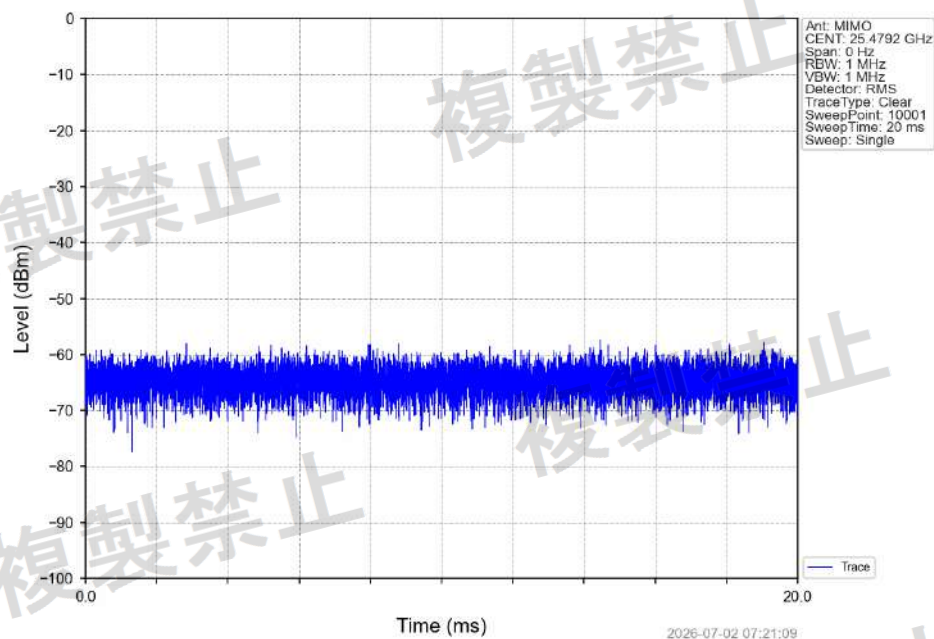
802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN



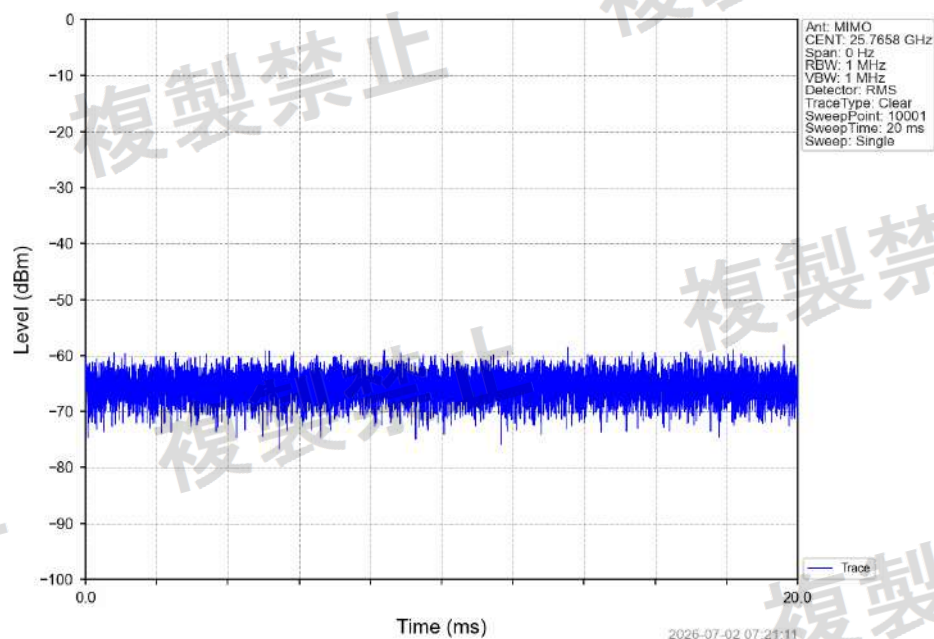
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	976.550	-76.31	/	-54	Pass
30	1000	0.1	0.1	976.550	-76.31	/	-54	Pass
1000	26000	1	1	25479.167	-48.70	-61.16	-47	Pass
1000	26000	1	1	25765.833	-48.86	-61.95	-47	Pass
1000	26000	1	1	25914.167	-47.70	-60.33	-47	Pass
1000	26000	1	1	25914.167	-47.70	-60.33	-47	Pass



802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN

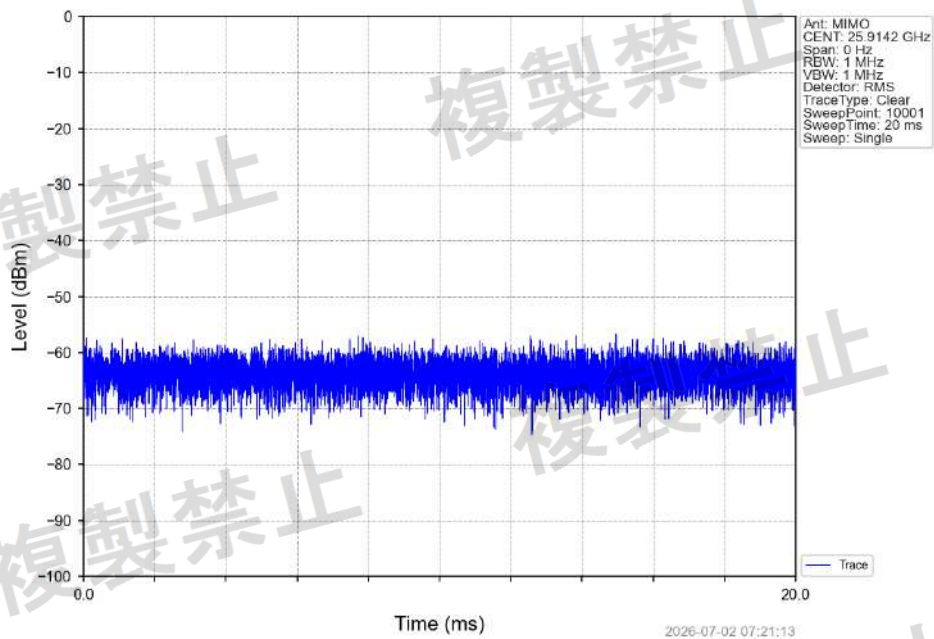


802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN

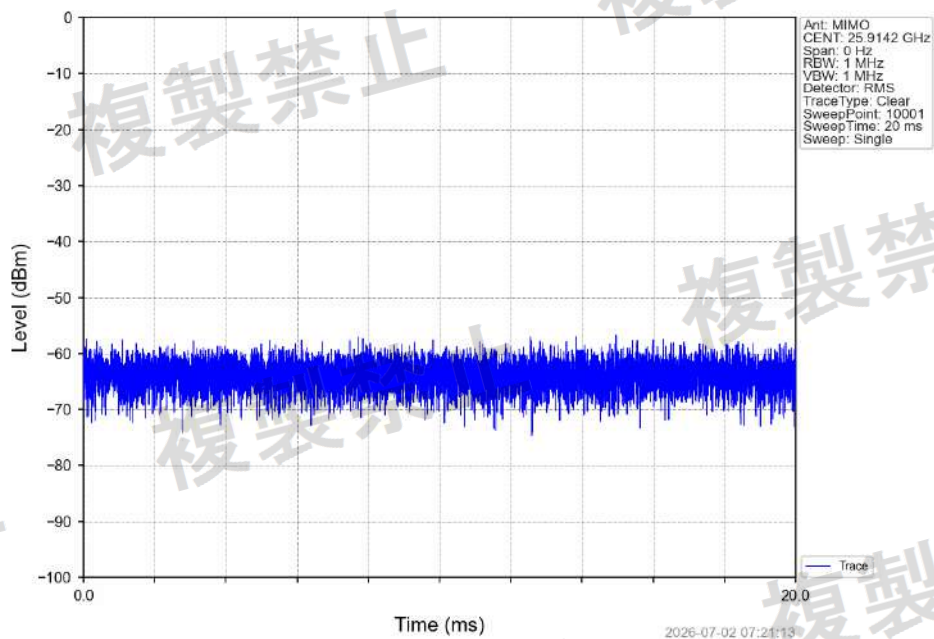




802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN

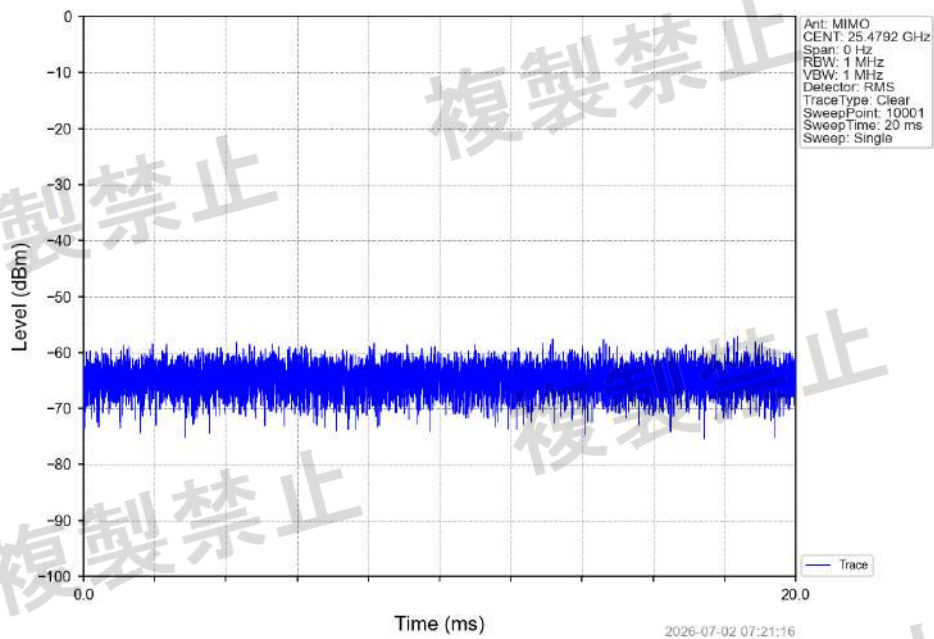


802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN

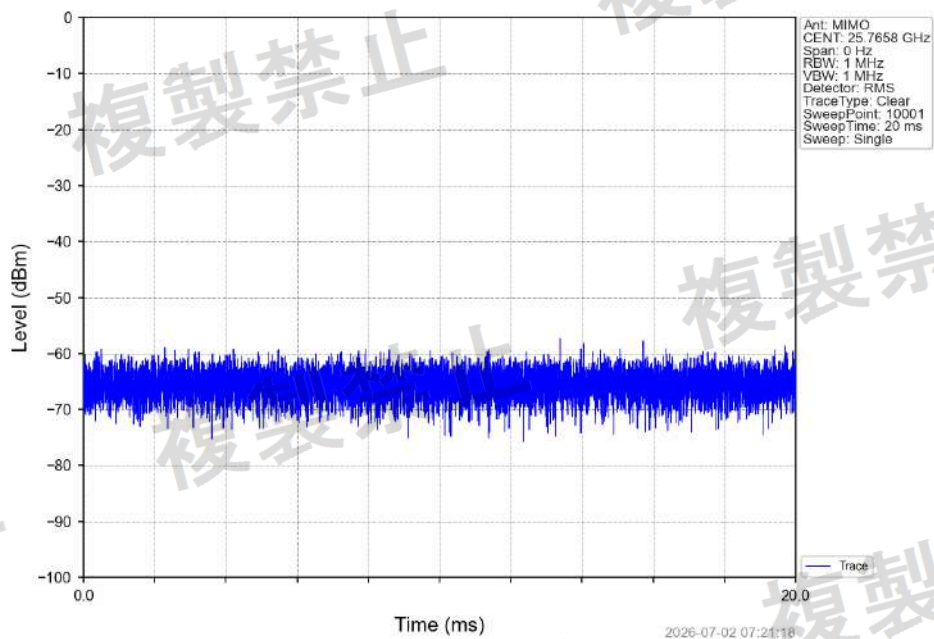




802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN

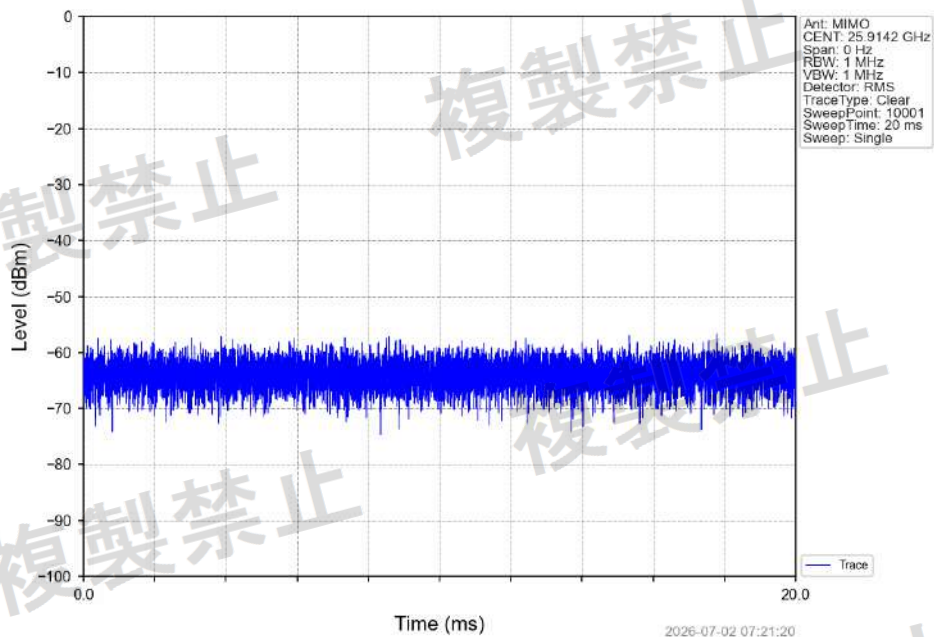


802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN

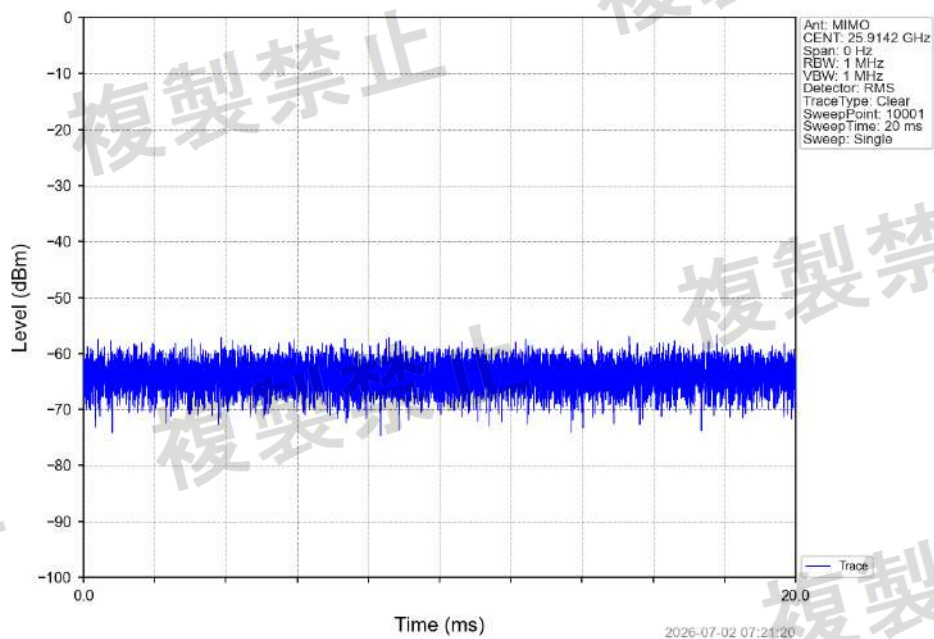




802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN

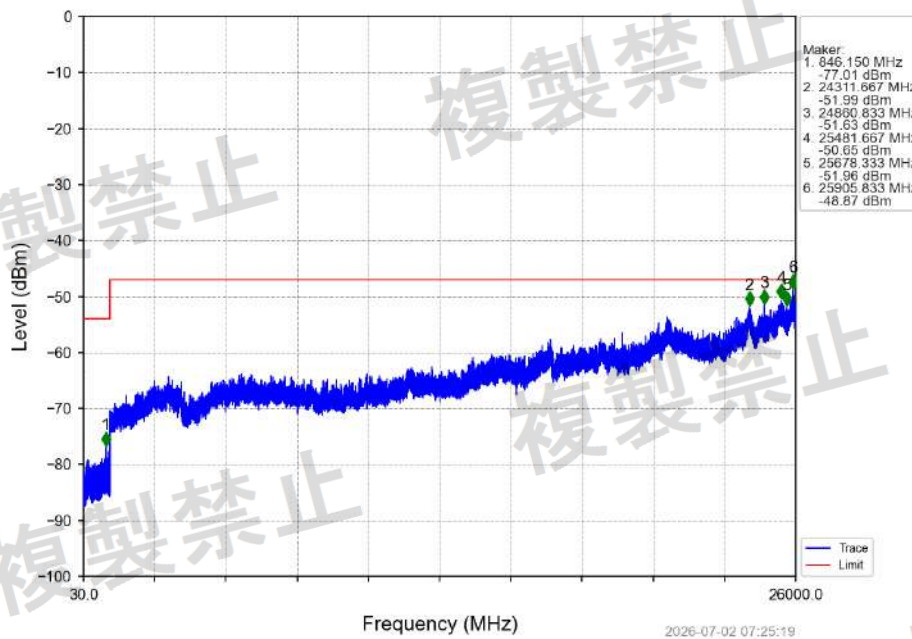


802.11ax(HEW40) HCH 5310MHz SU / MIMO NTN

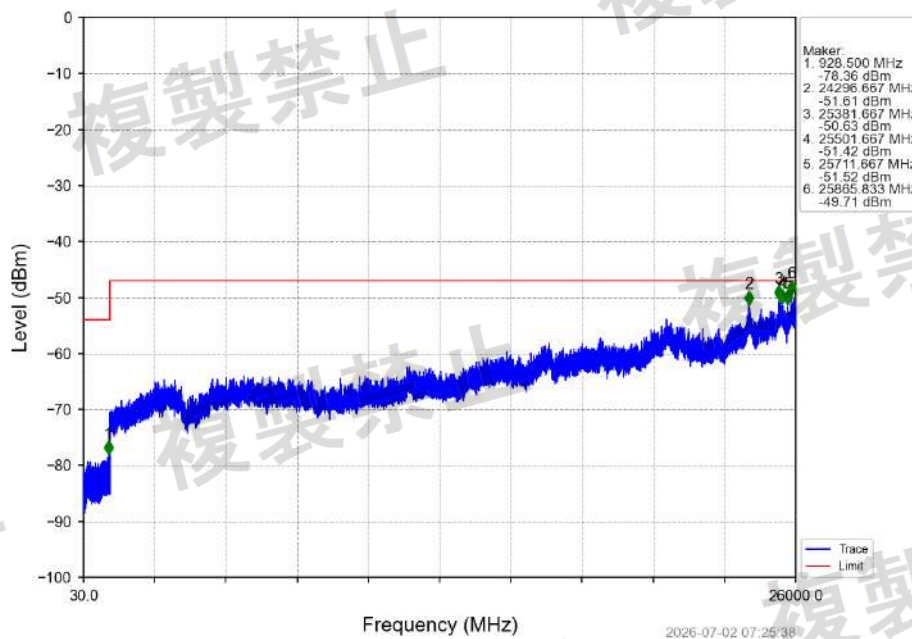




802.11ax(HEW40) LCH 5510MHz SU / Ant1 NTN

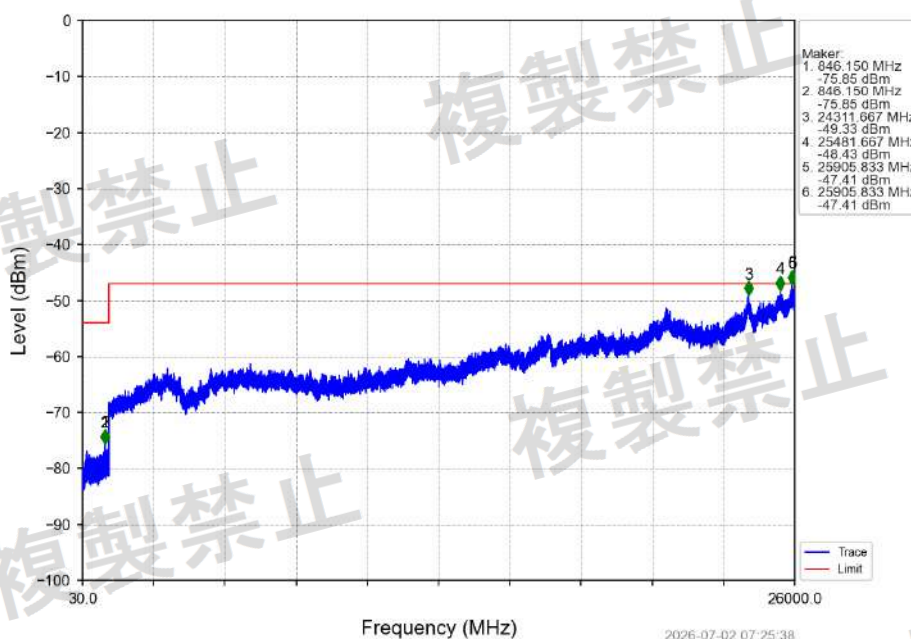


802.11ax(HEW40) LCH 5510MHz SU / Ant2 NTN

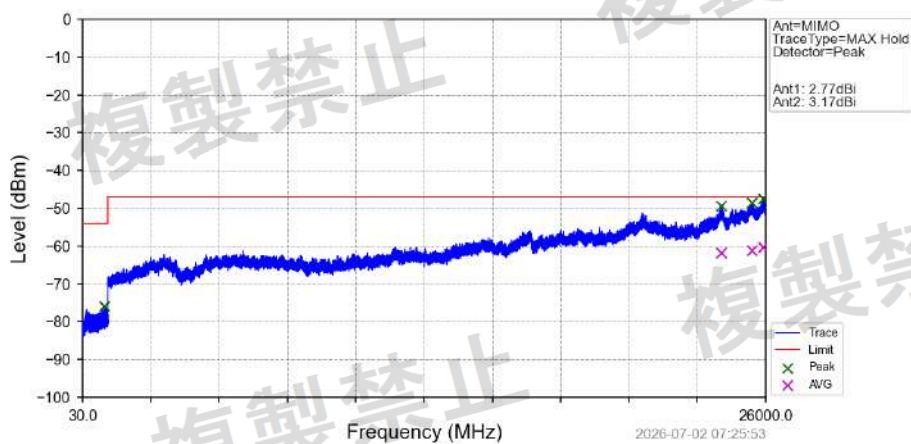




802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN



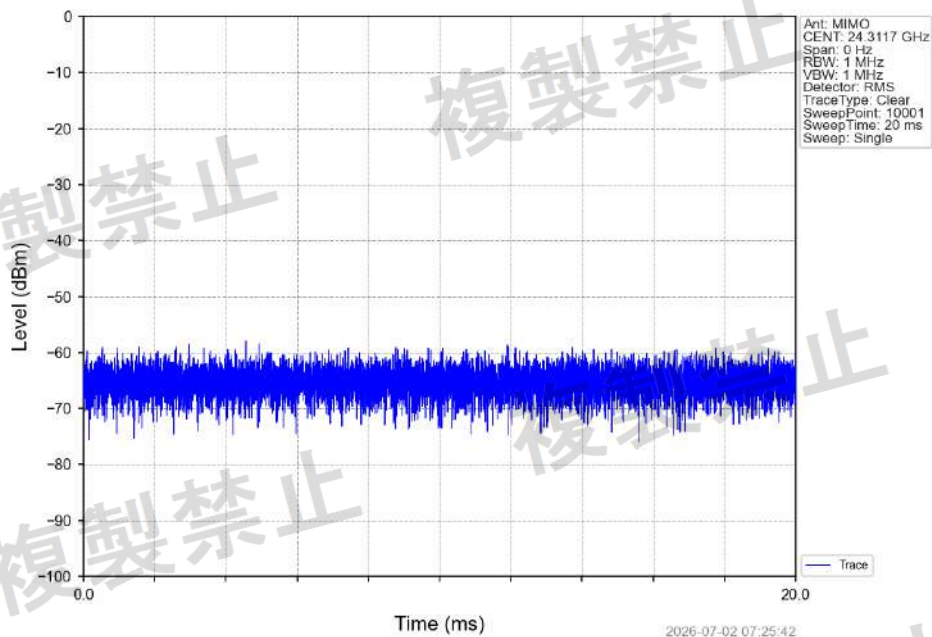
802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN



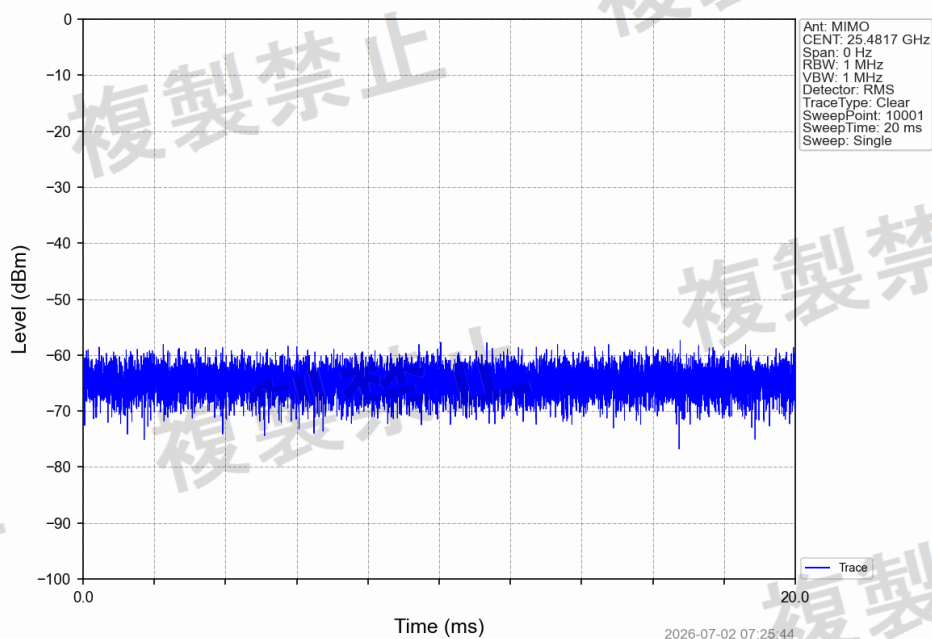
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	846.150	-75.85	/	-54	Pass
30	1000	0.1	0.1	846.150	-75.85	/	-54	Pass
1000	26000	1	1	24311.667	-49.33	-61.76	-47	Pass
1000	26000	1	1	25481.667	-48.43	-61.15	-47	Pass
1000	26000	1	1	25905.833	-47.41	-60.33	-47	Pass
1000	26000	1	1	25905.833	-47.41	-60.33	-47	Pass



802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN

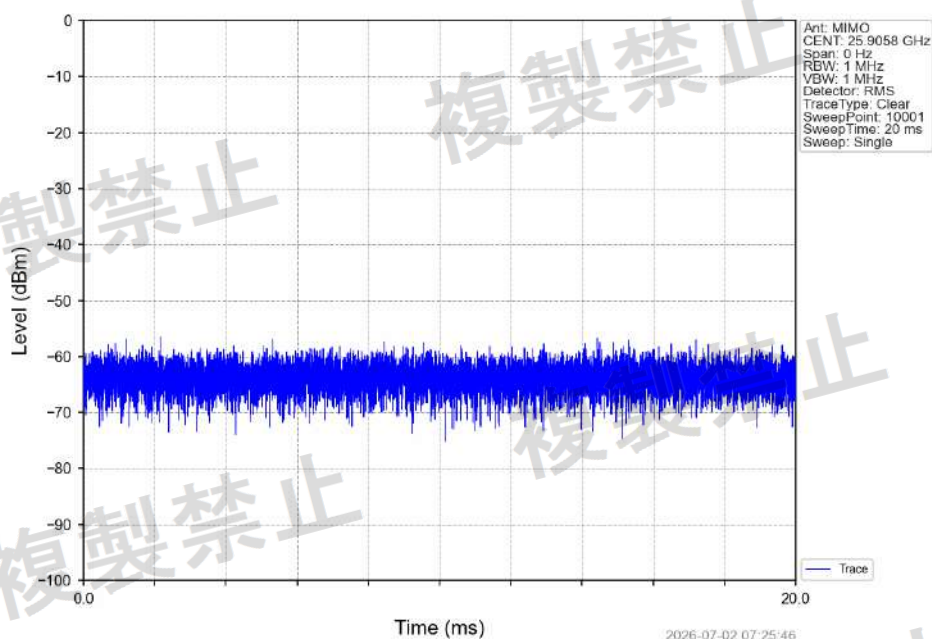


802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN

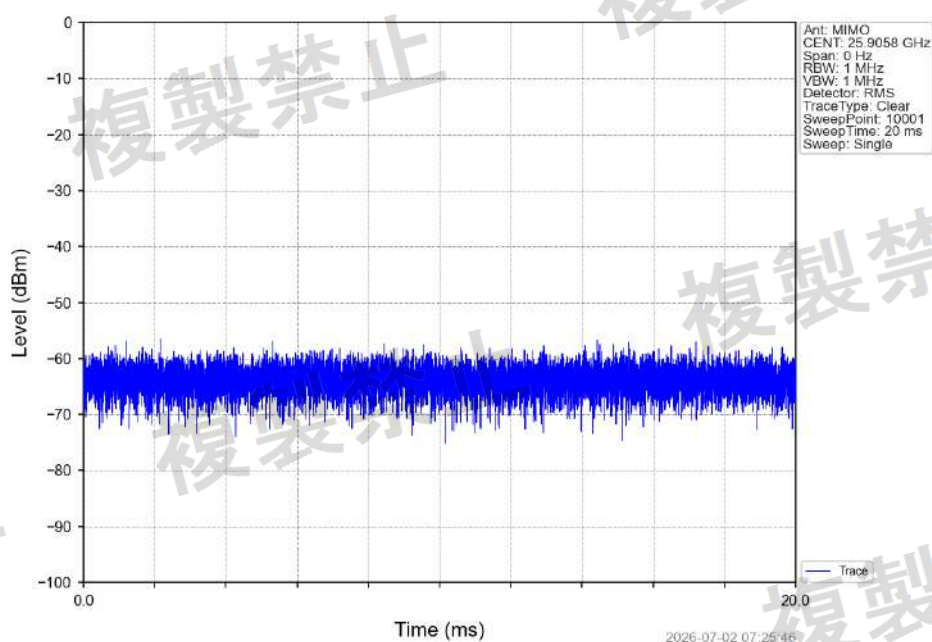




802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN

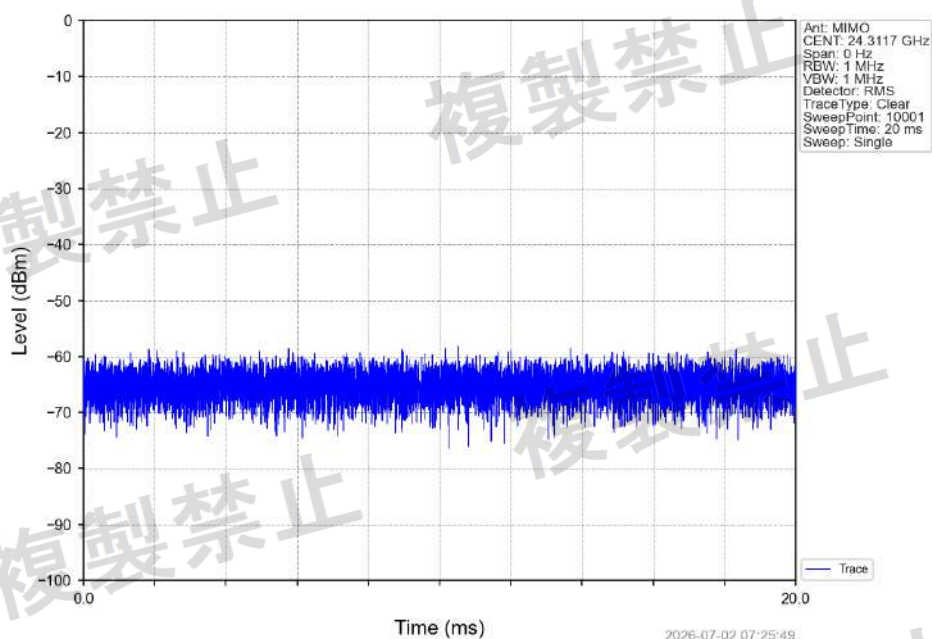


802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN

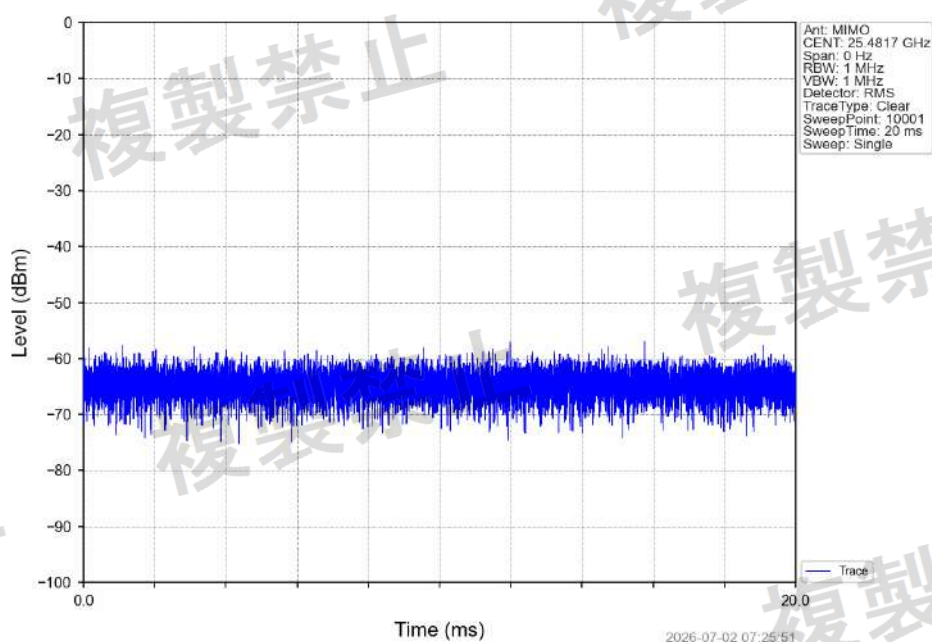




802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN

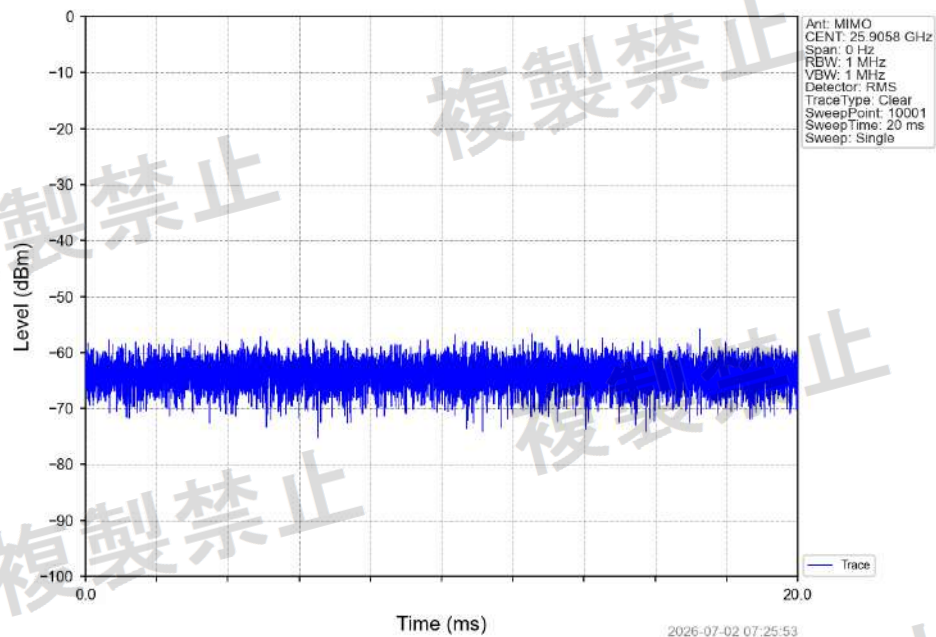


802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN

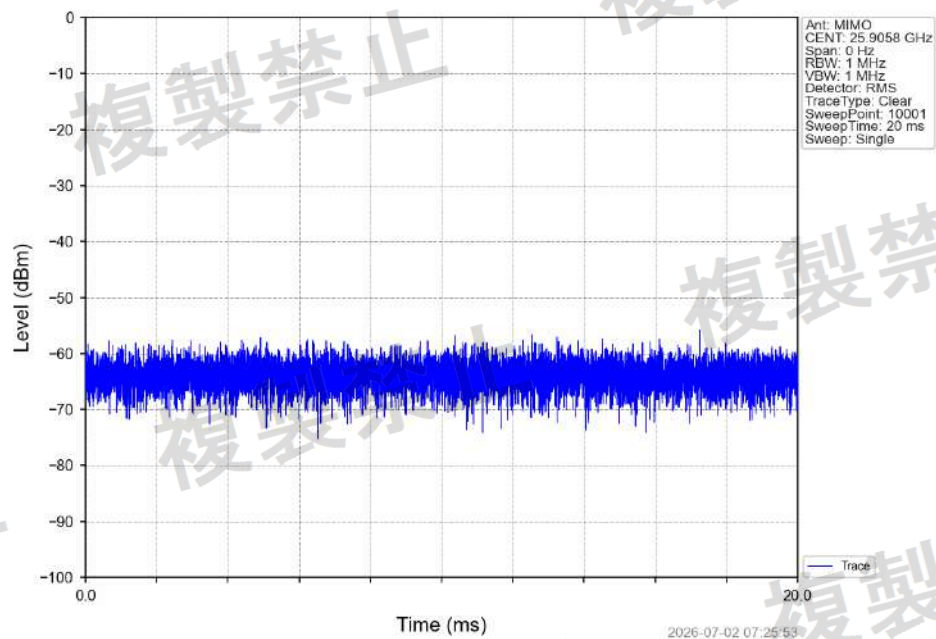




802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN

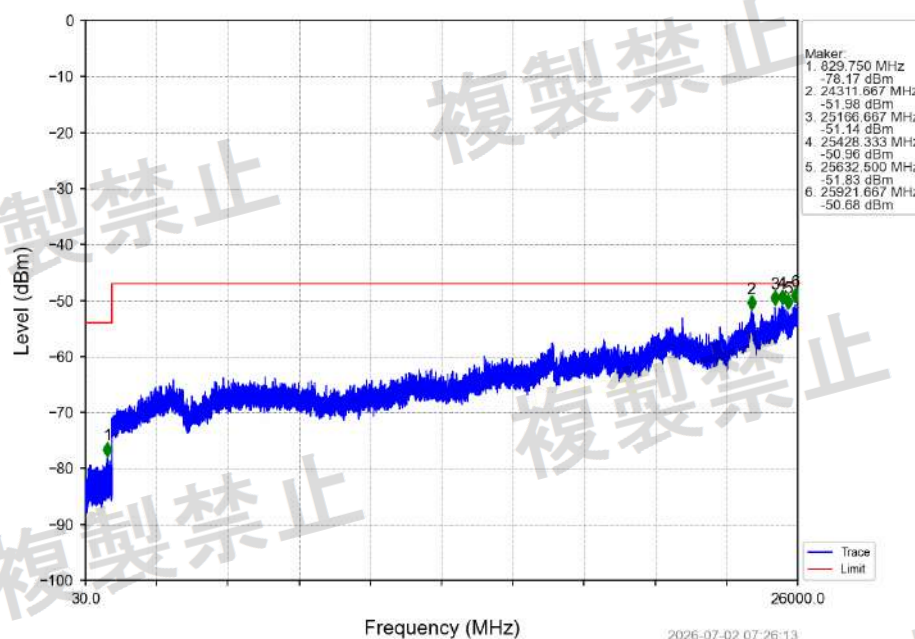


802.11ax(HEW40) LCH_5510MHz SU / MIMO NTN

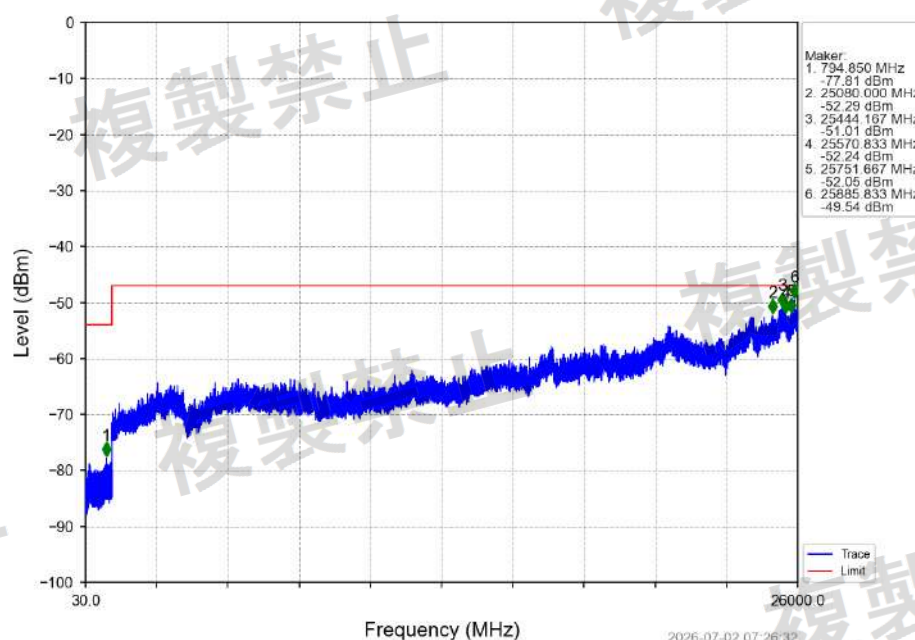




802.11ax(HEW40) MCH_5590MHz_SU / Ant1 NTN

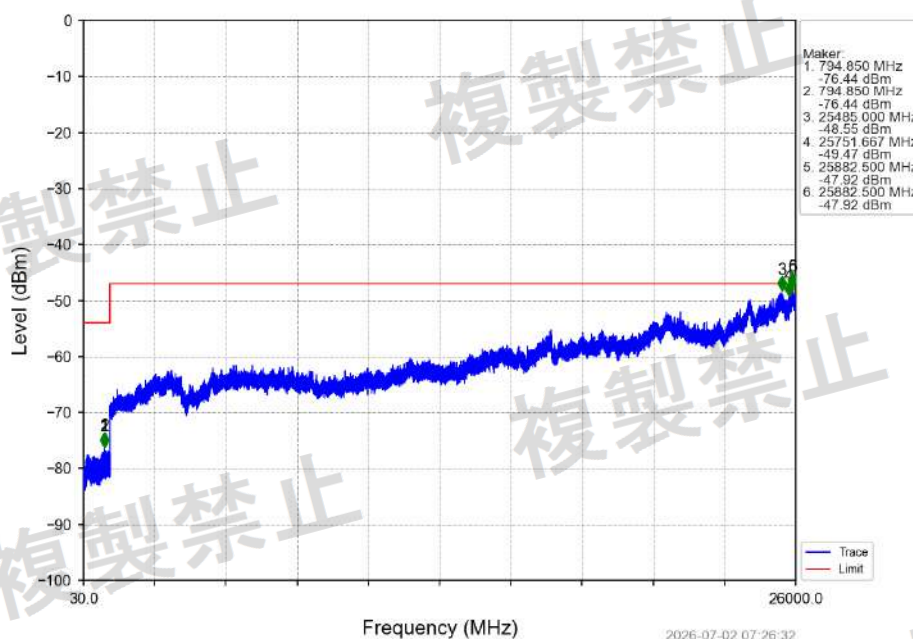


802.11ax(HEW40) MCH_5590MHz_SU / Ant2 NTN

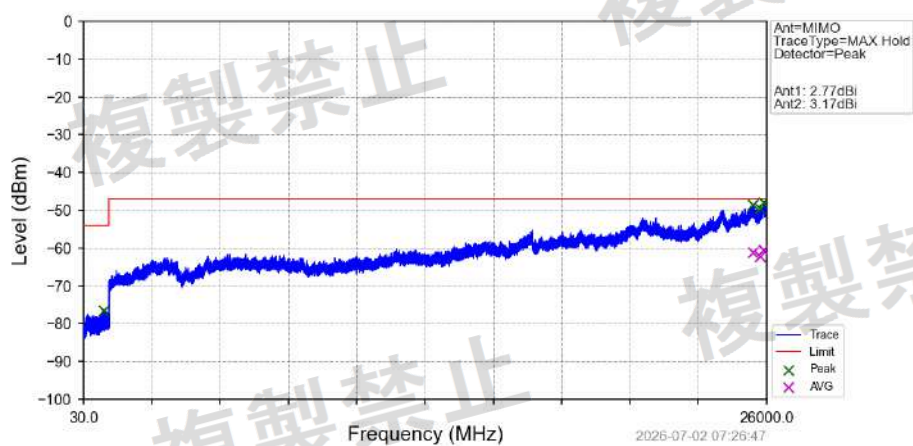




802.11ax(HEW40) MCH 5590MHz SU / MIMO NTN



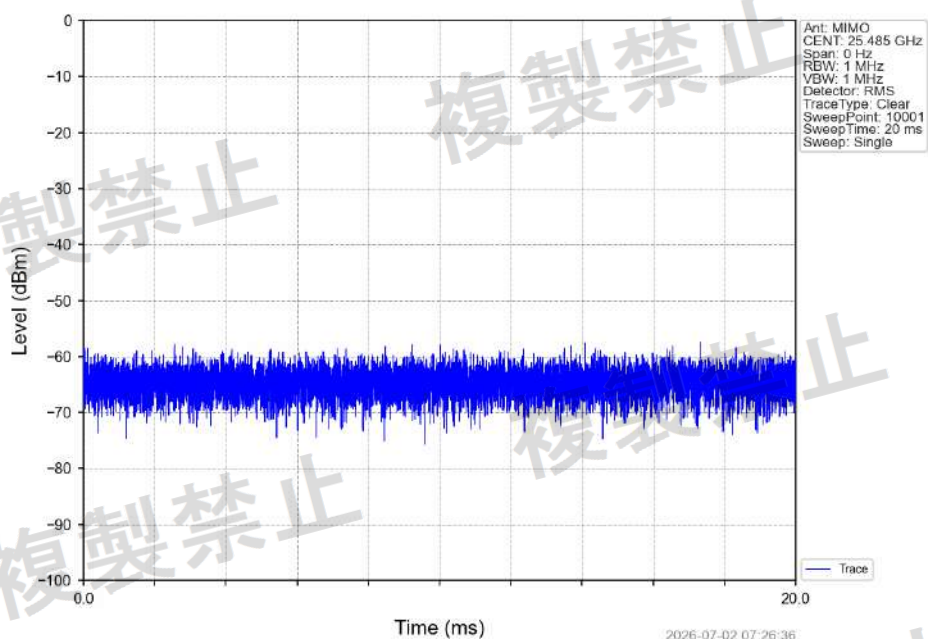
802.11ax(HEW40) MCH 5590MHz SU / MIMO NTN



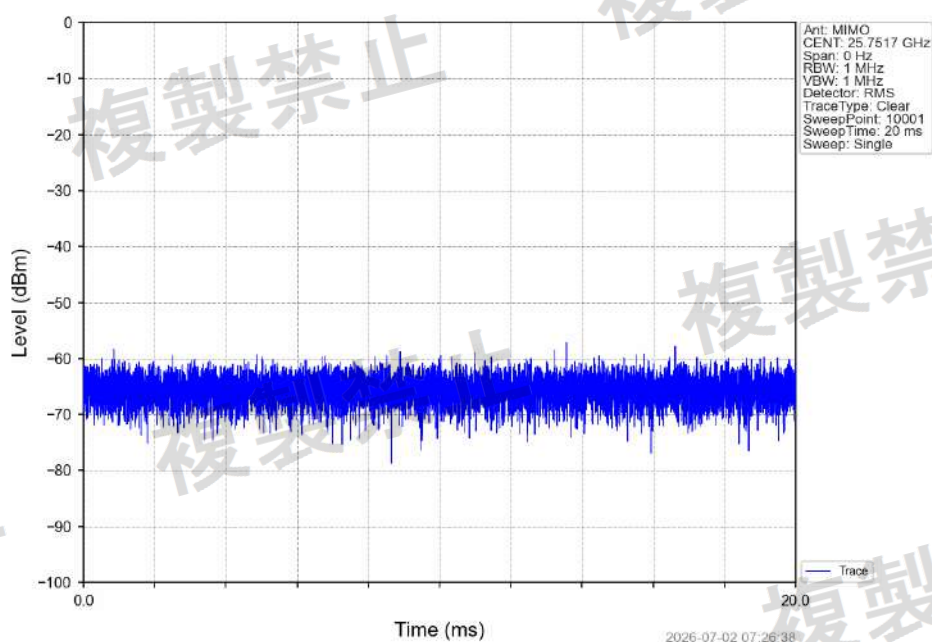
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	794.850	-76.44	/	-54	Pass
30	1000	0.1	0.1	794.850	-76.44	/	-54	Pass
1000	26000	1	1	25485.000	-48.55	-61.16	-47	Pass
1000	26000	1	1	25751.667	-49.47	-62.14	-47	Pass
1000	26000	1	1	25882.500	-47.92	-60.56	-47	Pass
1000	26000	1	1	25882.500	-47.92	-60.56	-47	Pass



802.11ax(HEW40)_MCH_5590MHz_SU / MIMO_NTNV

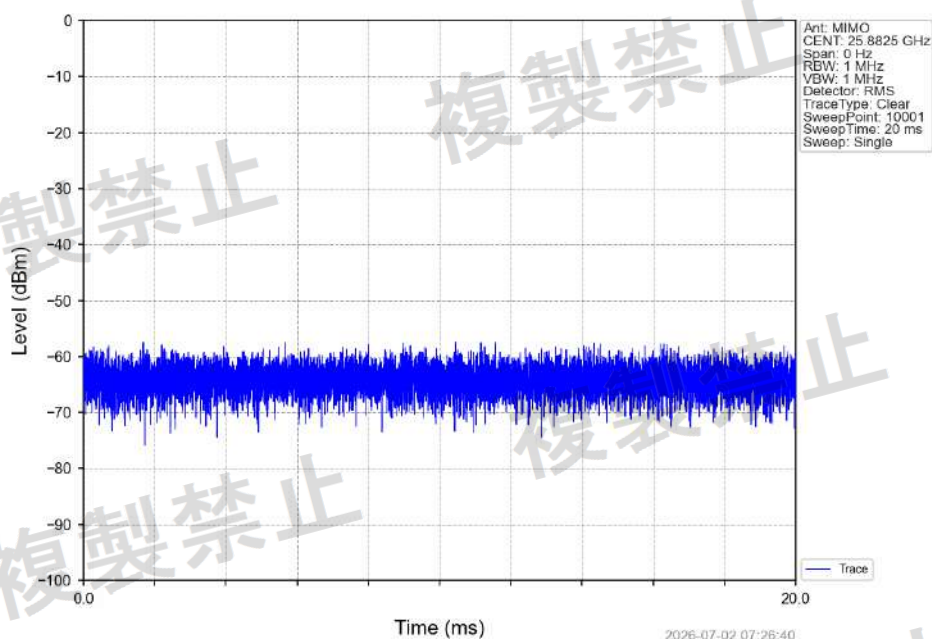


802.11ax(HEW40)_MCH_5590MHz_SU / MIMO_NTNV

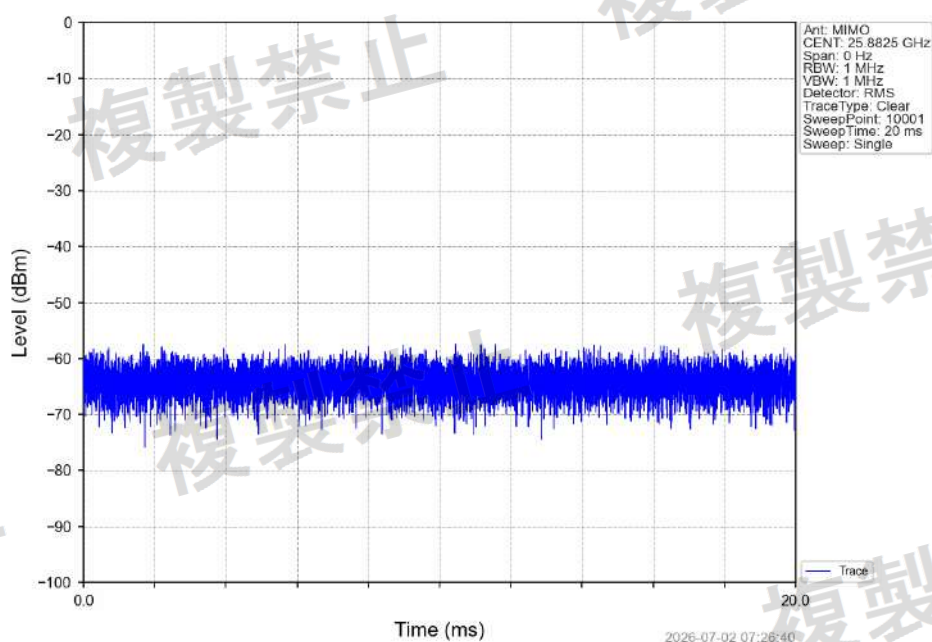




802.11ax(HEW40) MCH 5590MHz SU / MIMO NTN

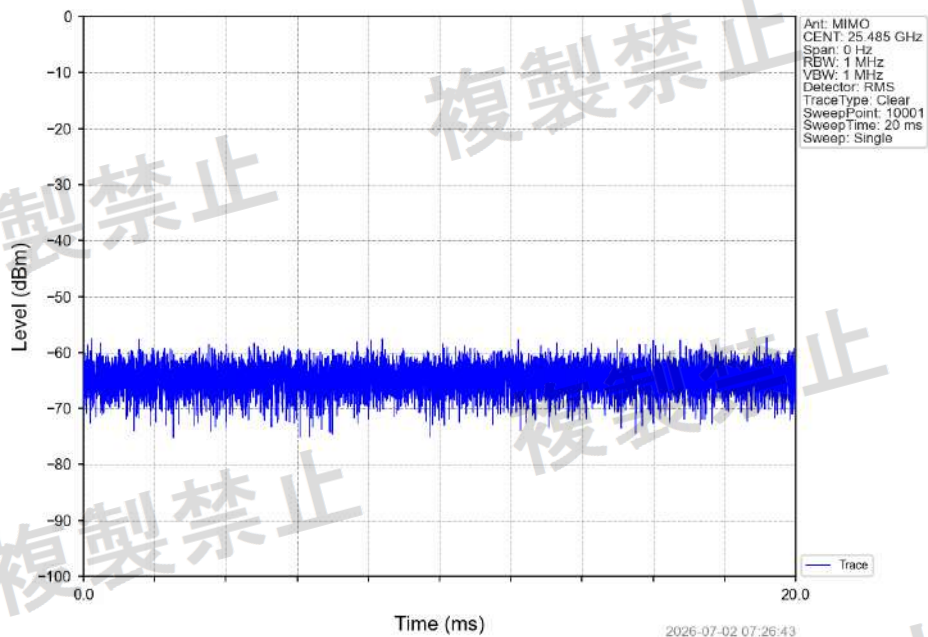


802.11ax(HEW40) MCH 5590MHz SU / MIMO NTN

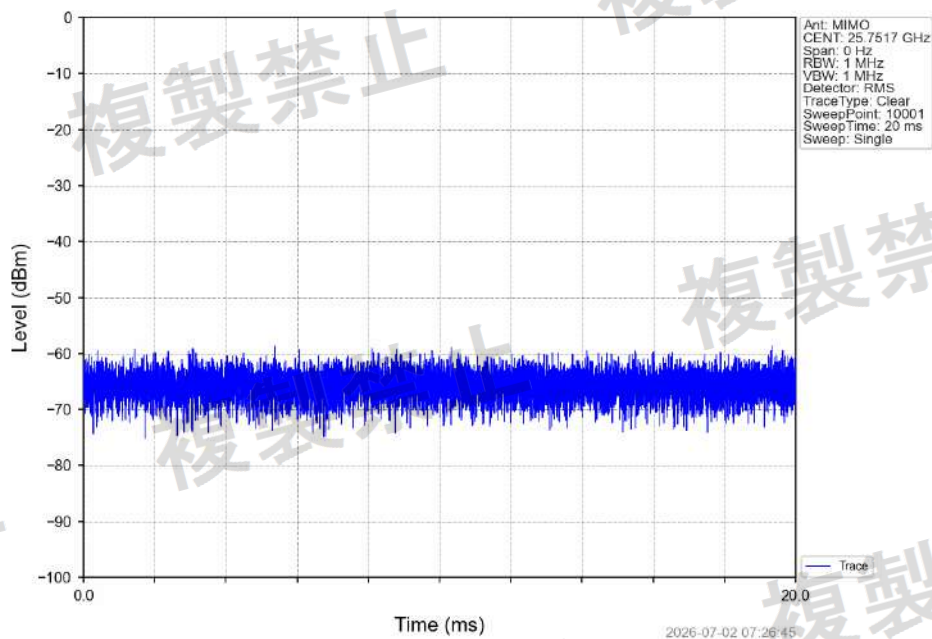




802.11ax(HEW40)_MCH_5590MHz_SU / MIMO_NTNV

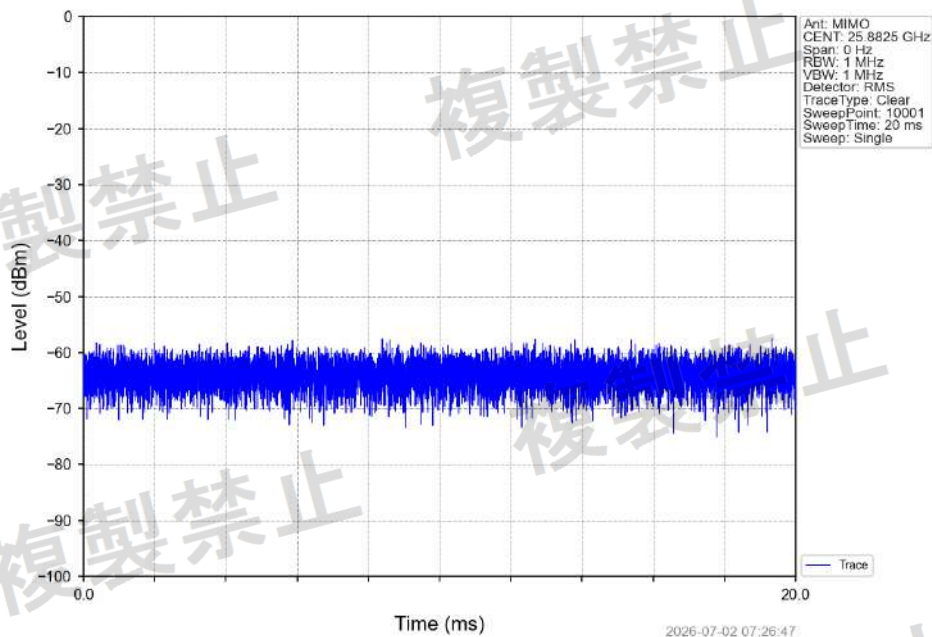


802.11ax(HEW40)_MCH_5590MHz_SU / MIMO_NTNV

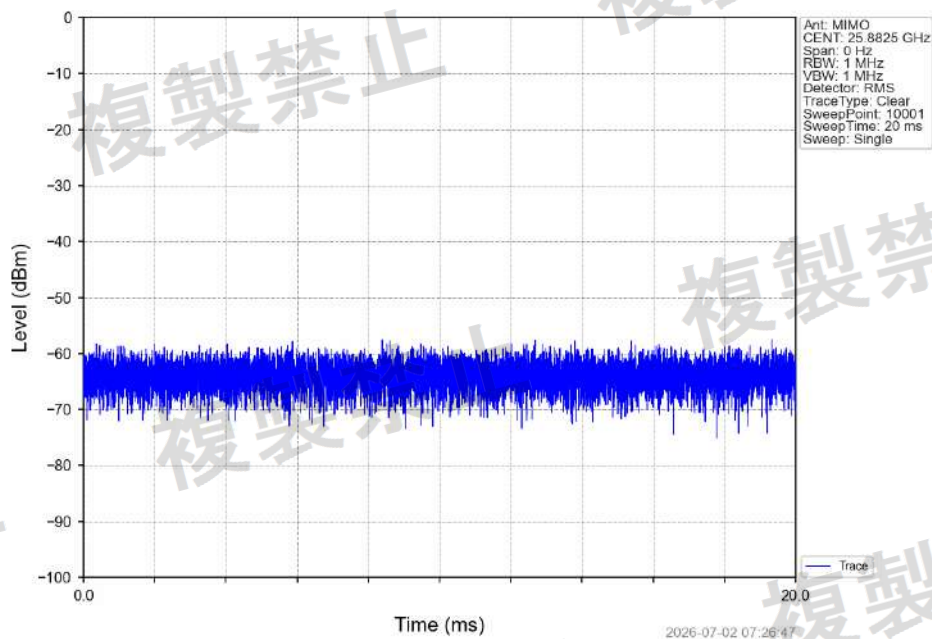




802.11ax(HEW40) MCH 5590MHz SU / MIMO NTN

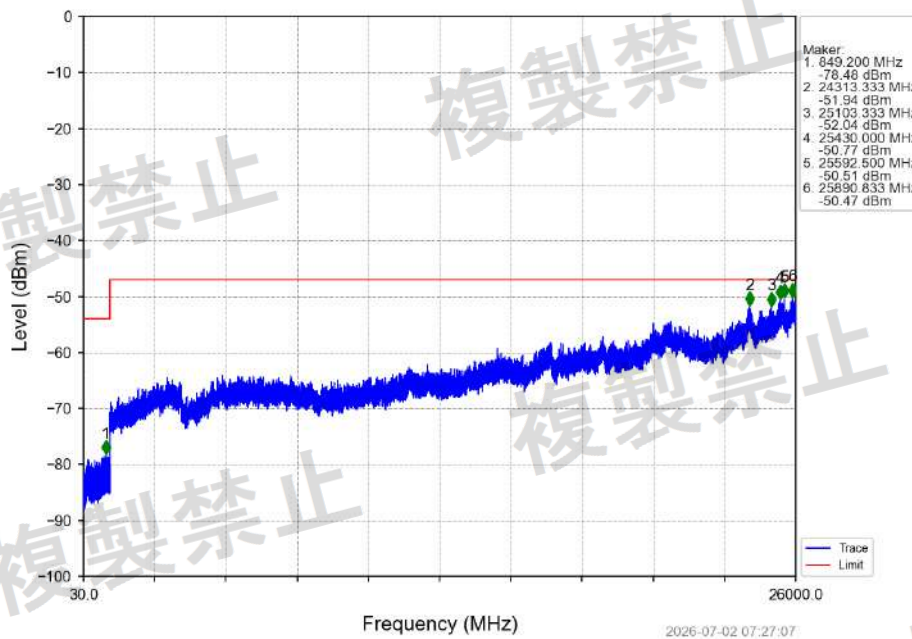


802.11ax(HEW40) MCH 5590MHz SU / MIMO NTN

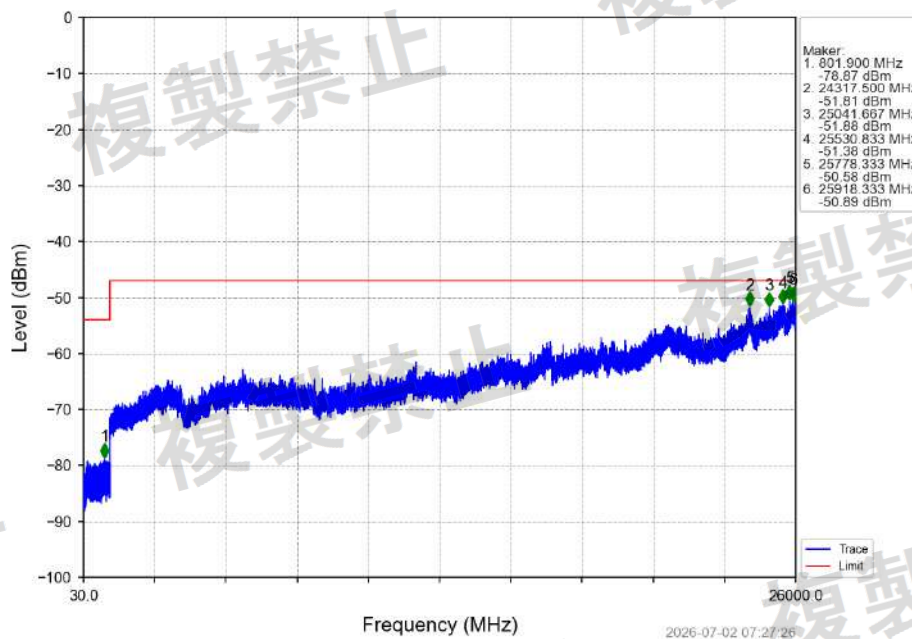




802.11ax(HEW40) HCH 5670MHz SU / Ant1 NTN

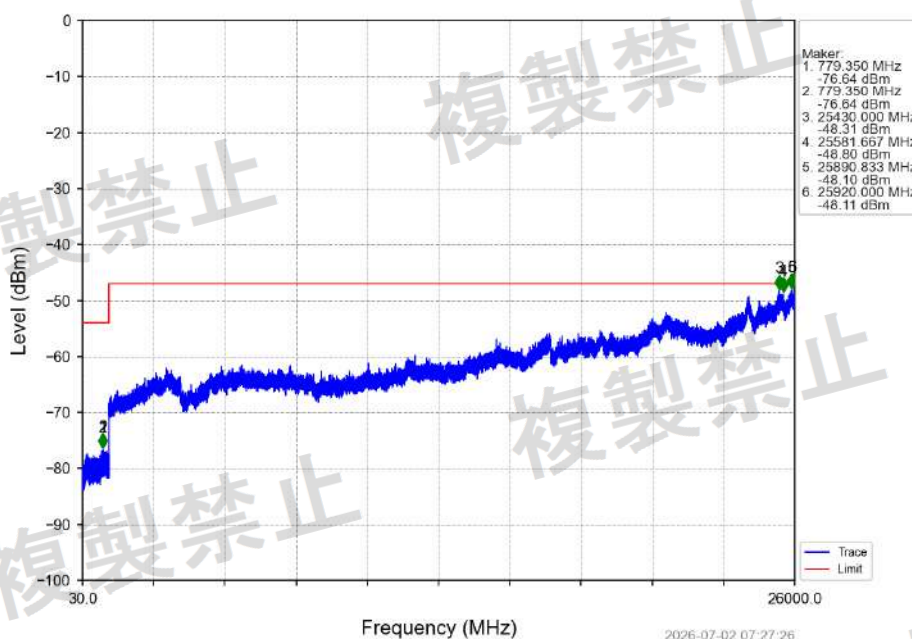


802.11ax(HEW40) HCH 5670MHz SU / Ant2 NTN

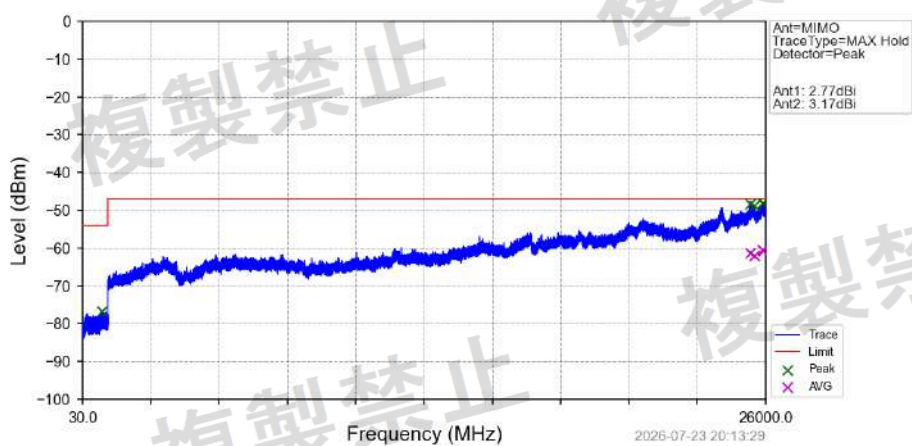




802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN



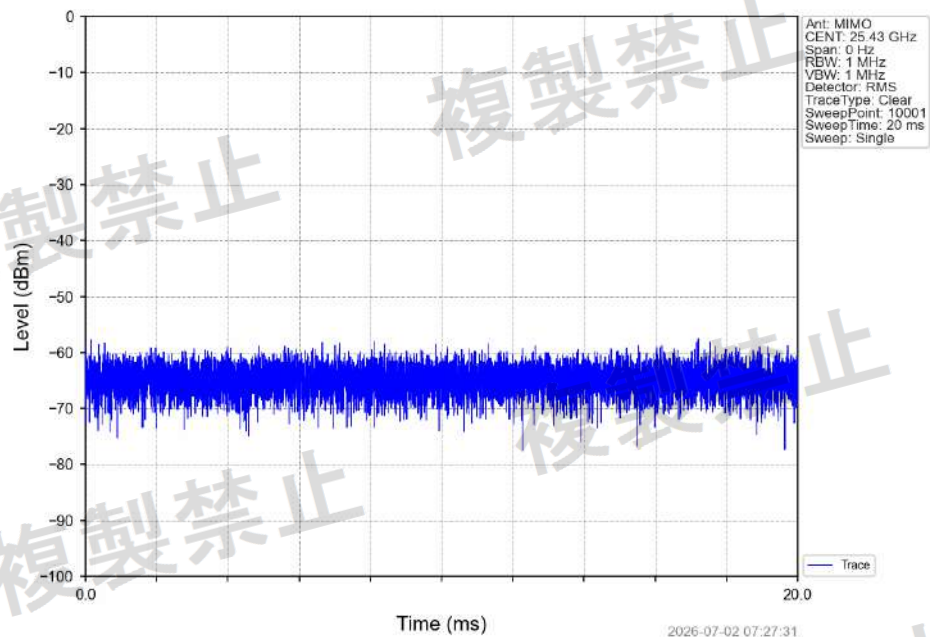
802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN



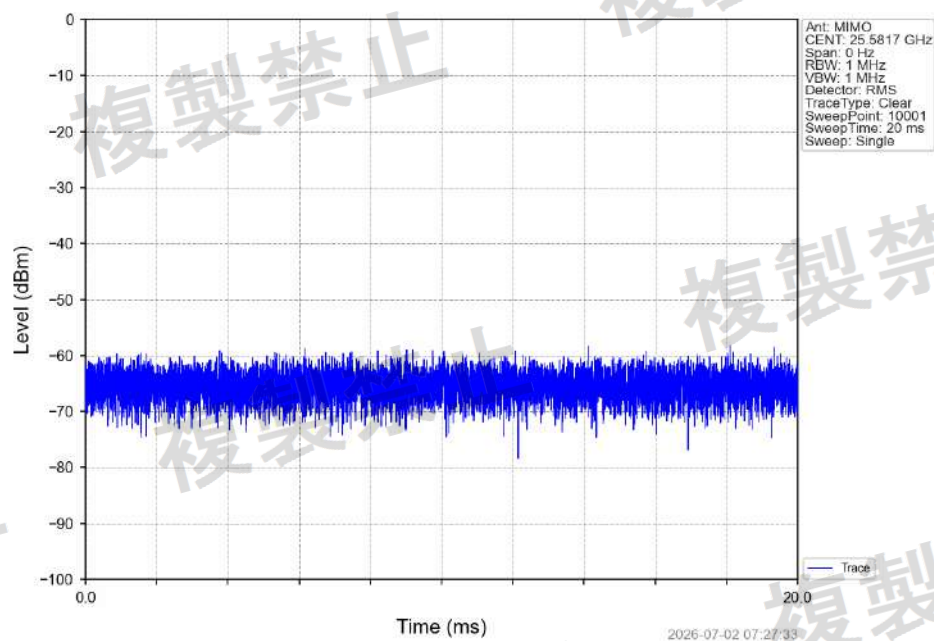
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	779.350	-76.64	/	-54	Pass
30	1000	0.1	0.1	779.350	-76.64	/	-54	Pass
1000	26000	1	1	25430.000	-48.31	-61.35	-47	Pass
1000	26000	1	1	25581.667	-48.80	-61.90	-47	Pass
1000	26000	1	1	25890.833	-48.10	-60.46	-47	Pass
1000	26000	1	1	25920.000	-48.11	-60.58	-47	Pass



802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN

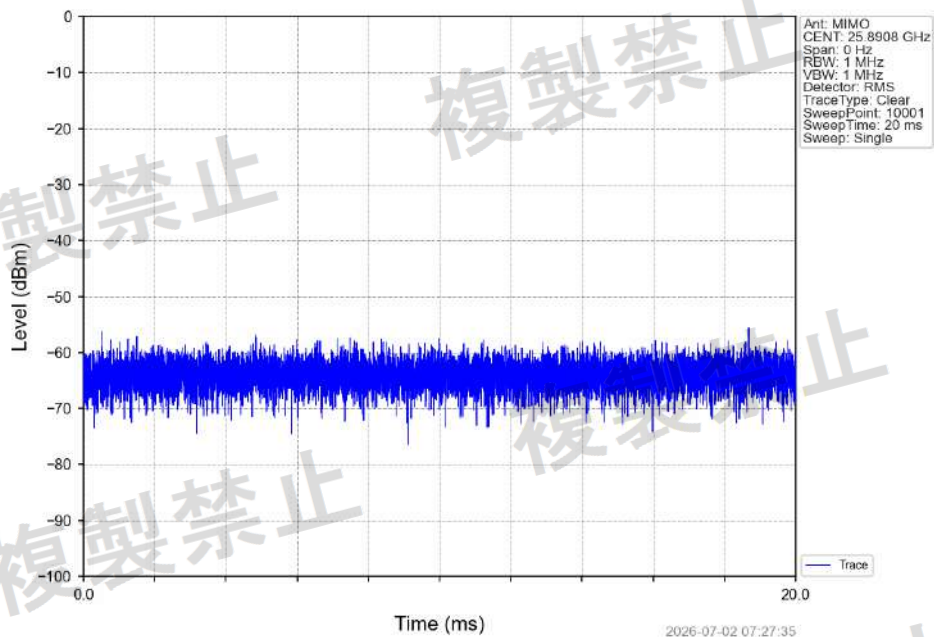


802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN

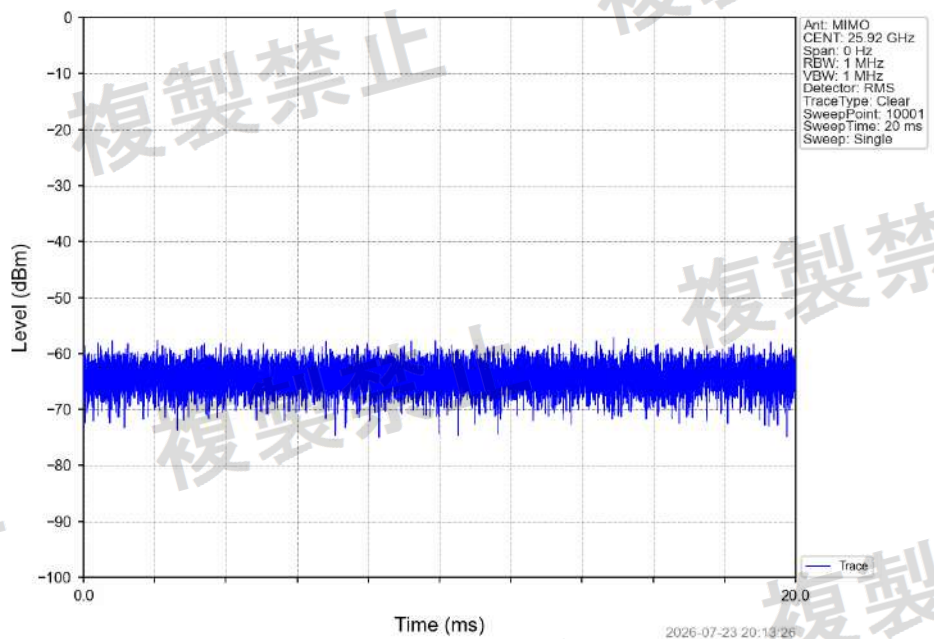




802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN

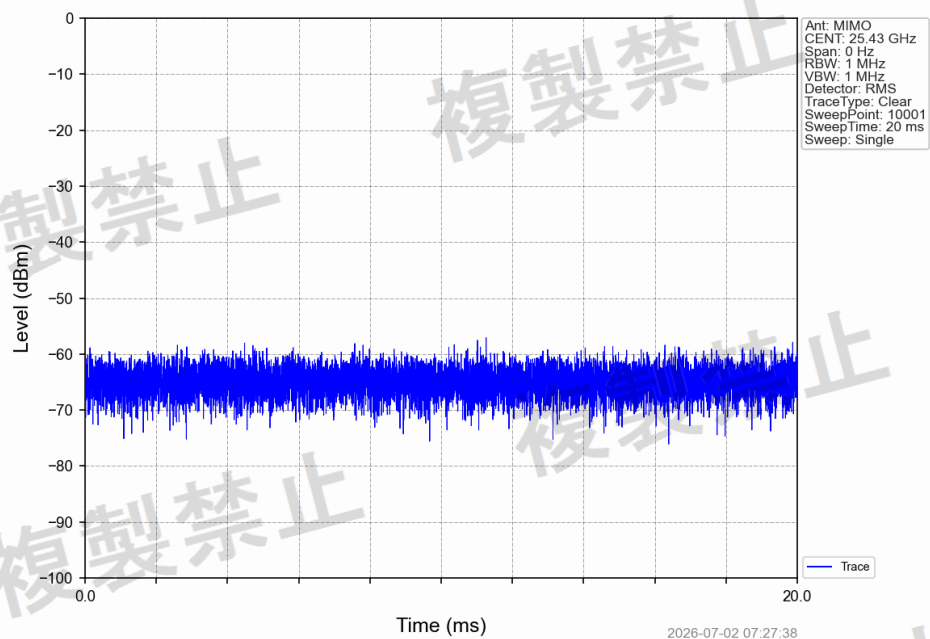


802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN

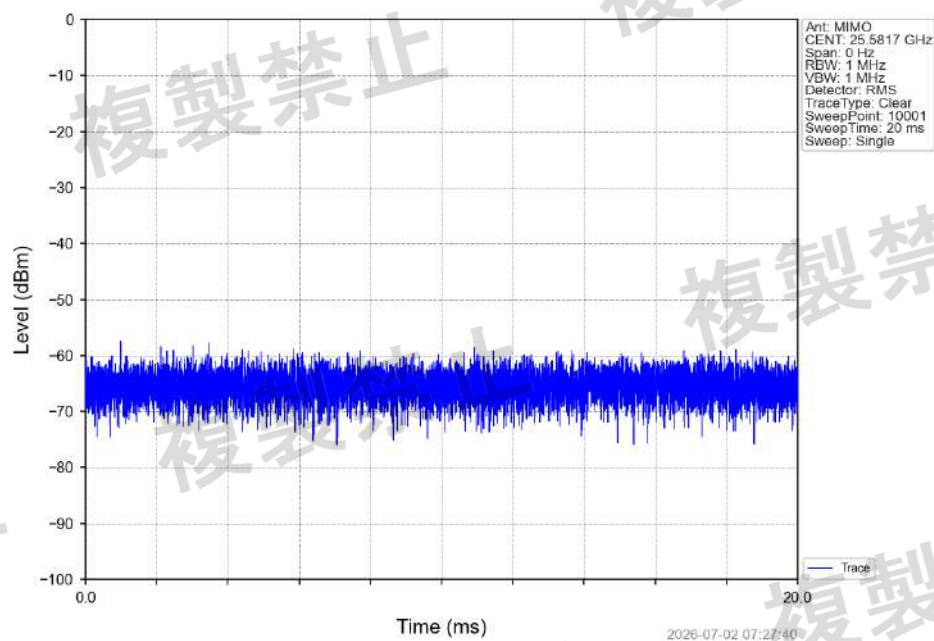




802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN

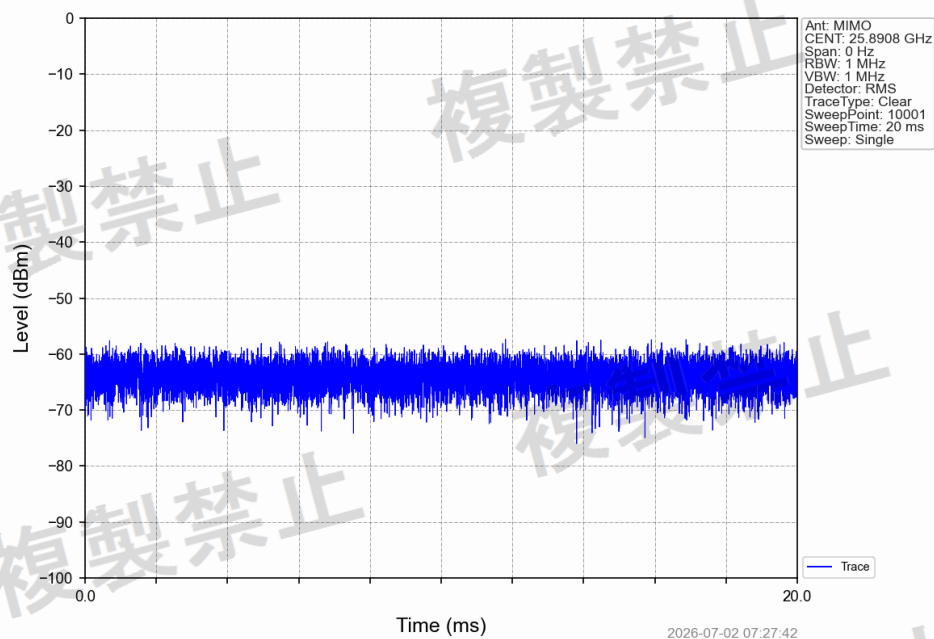


802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN

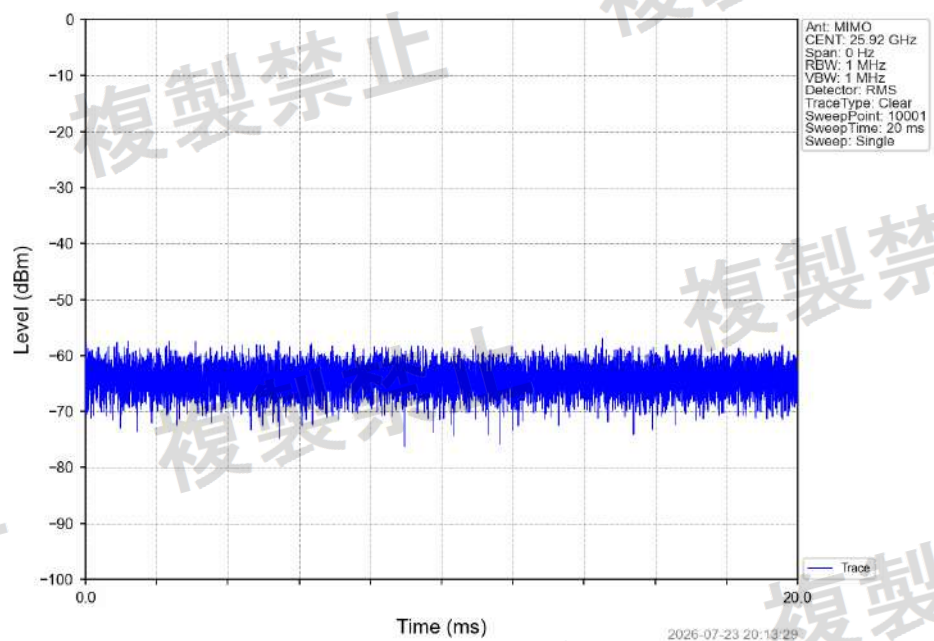




802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN

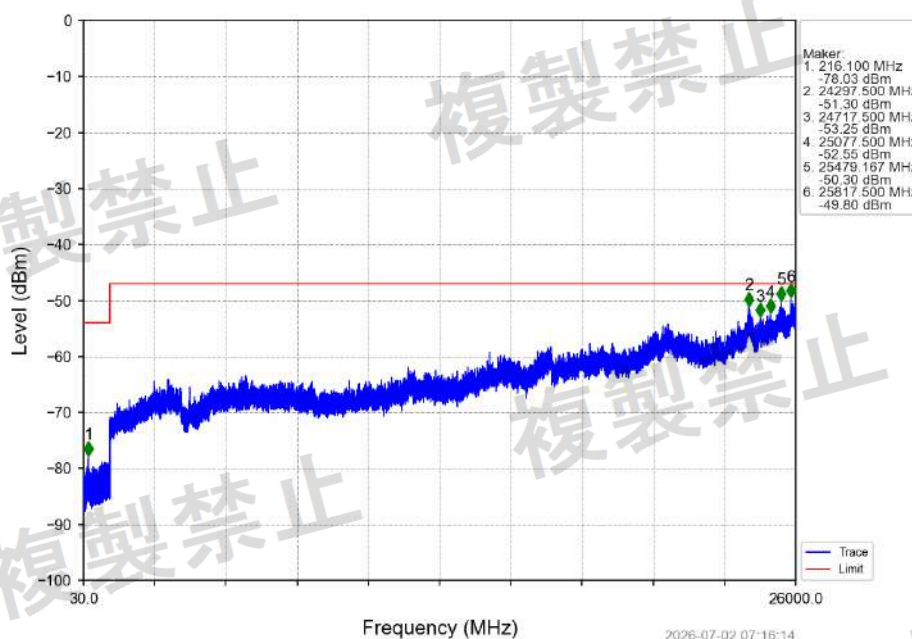


802.11ax(HEW40) HCH 5670MHz SU / MIMO NTN

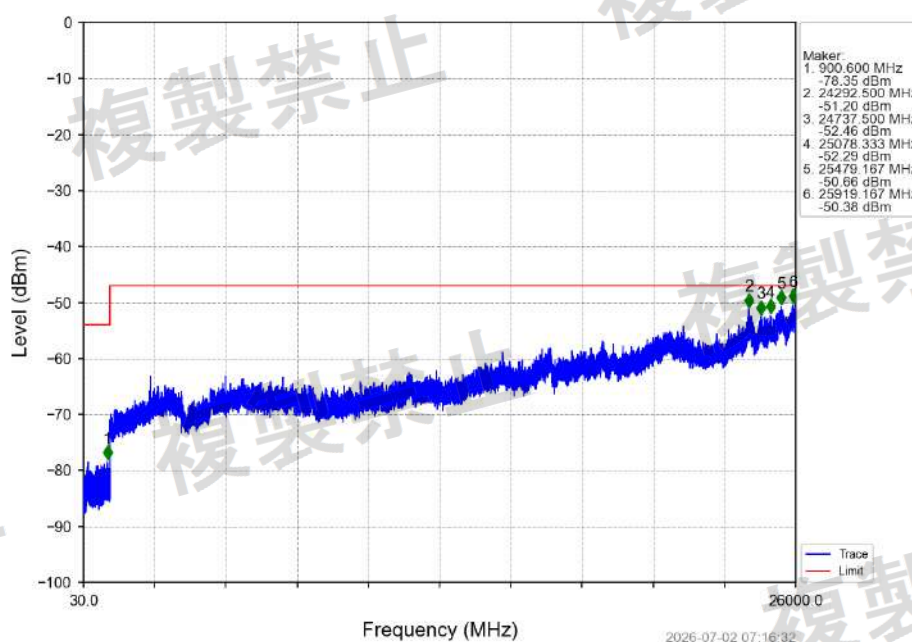




802.11ax(HEW80) MCH_5210MHz_SU / Ant1_NTNV

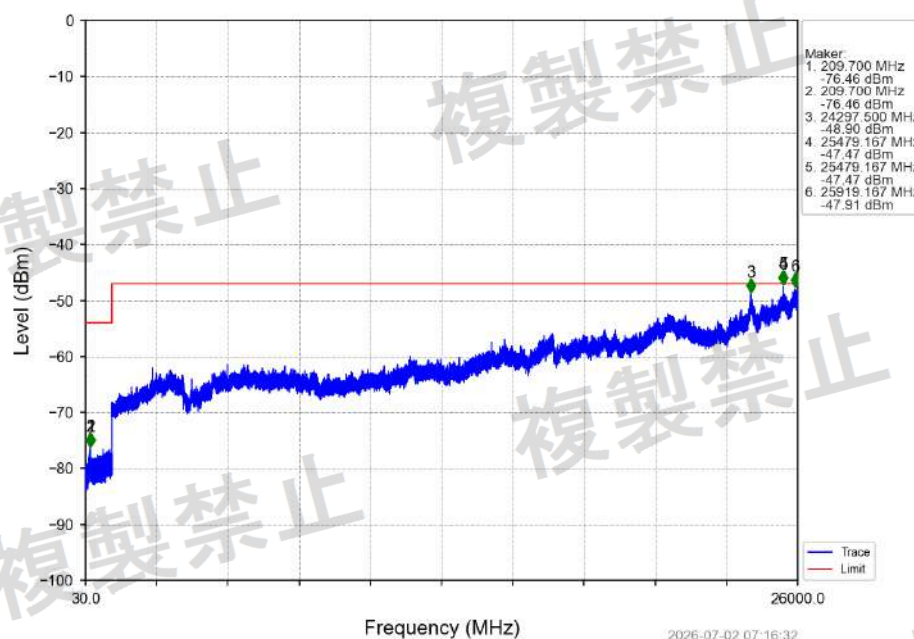


802.11ax(HEW80) MCH_5210MHz_SU / Ant2_NTNV

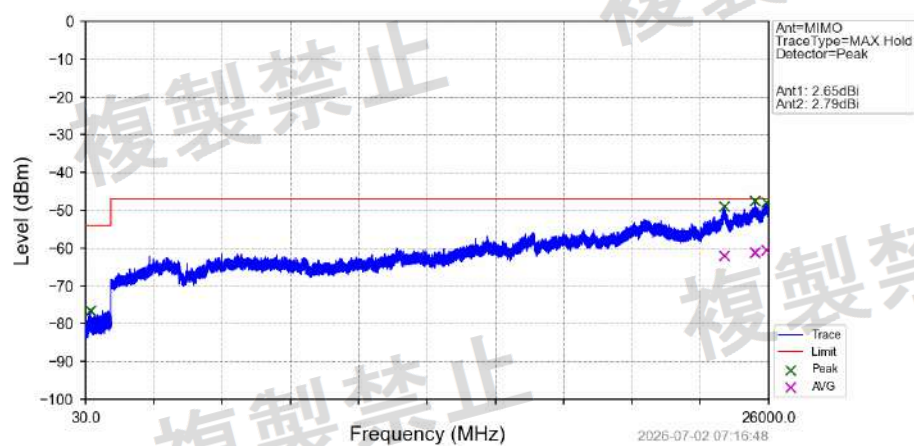




802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN



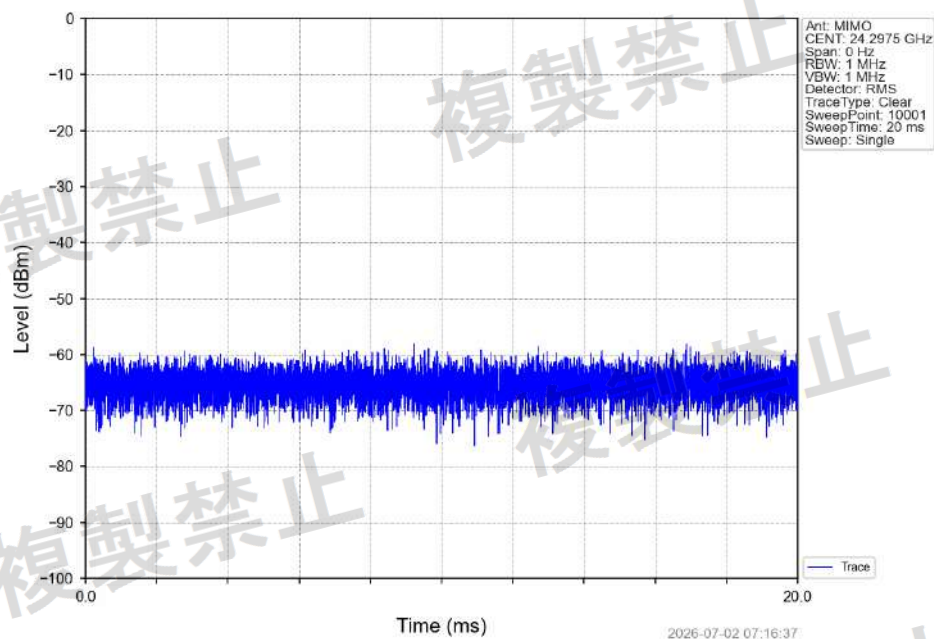
802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN



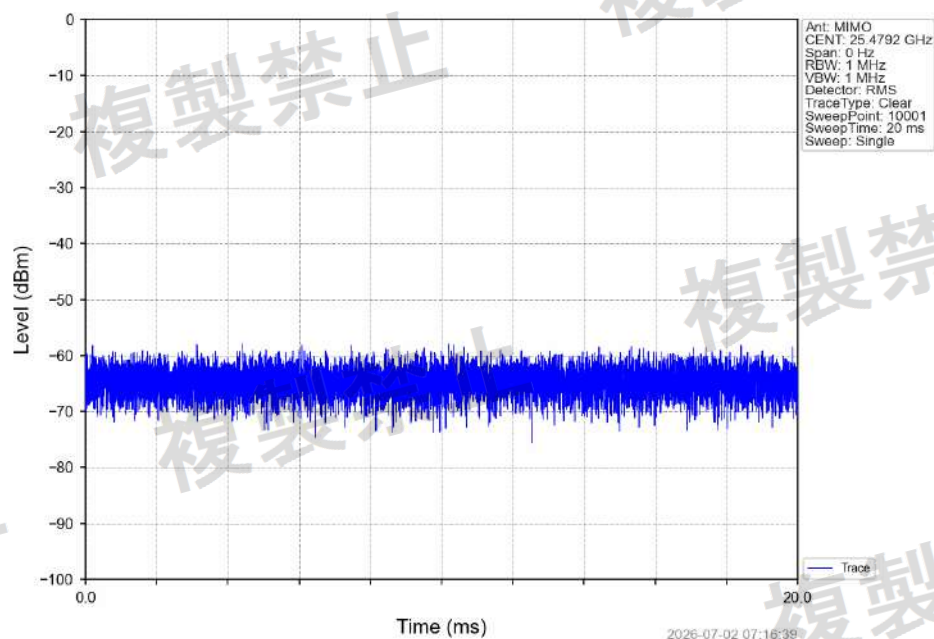
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	209.700	-76.46	/	-54	Pass
30	1000	0.1	0.1	209.700	-76.46	/	-54	Pass
1000	26000	1	1	24297.500	-48.90	-61.86	-47	Pass
1000	26000	1	1	25479.167	-47.47	-61.13	-47	Pass
1000	26000	1	1	25479.167	-47.47	-61.13	-47	Pass
1000	26000	1	1	25919.167	-47.91	-60.39	-47	Pass



802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN

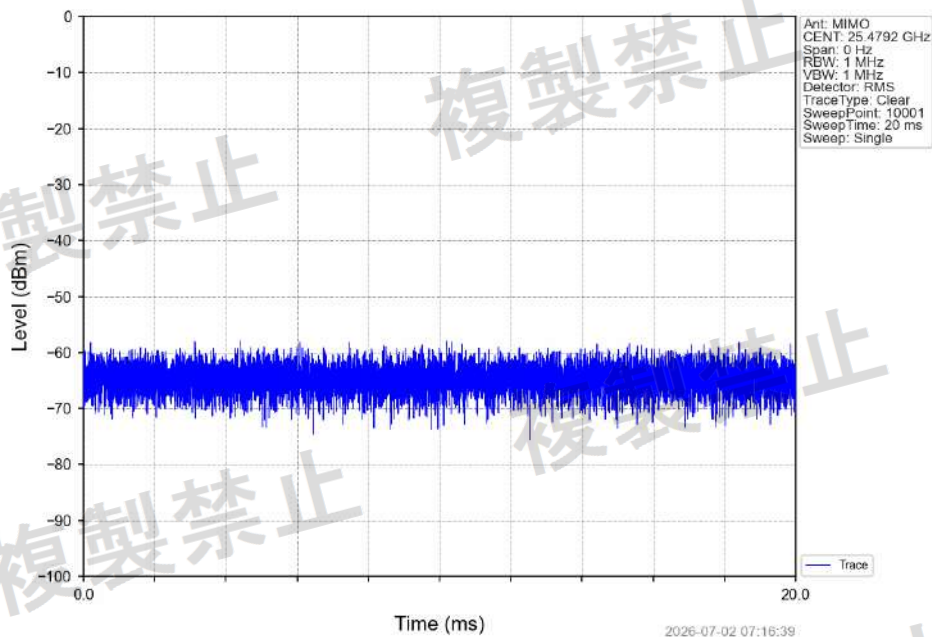


802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN

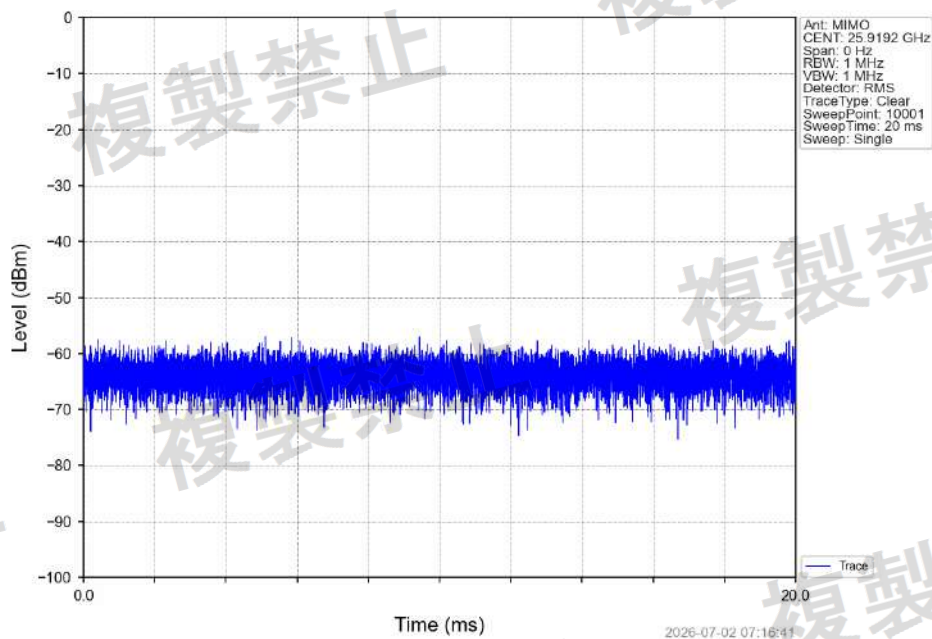




802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN

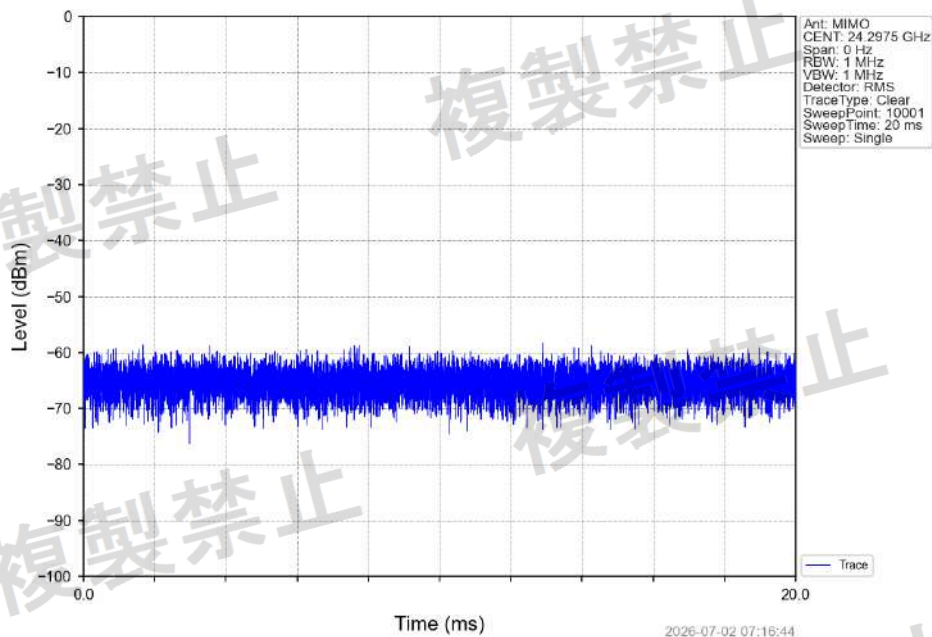


802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN

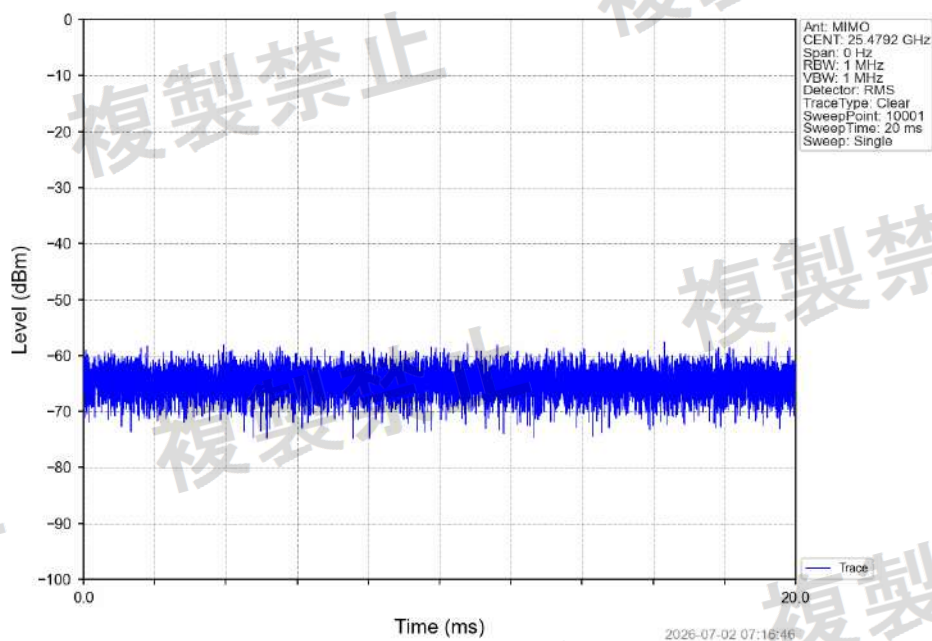




802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN

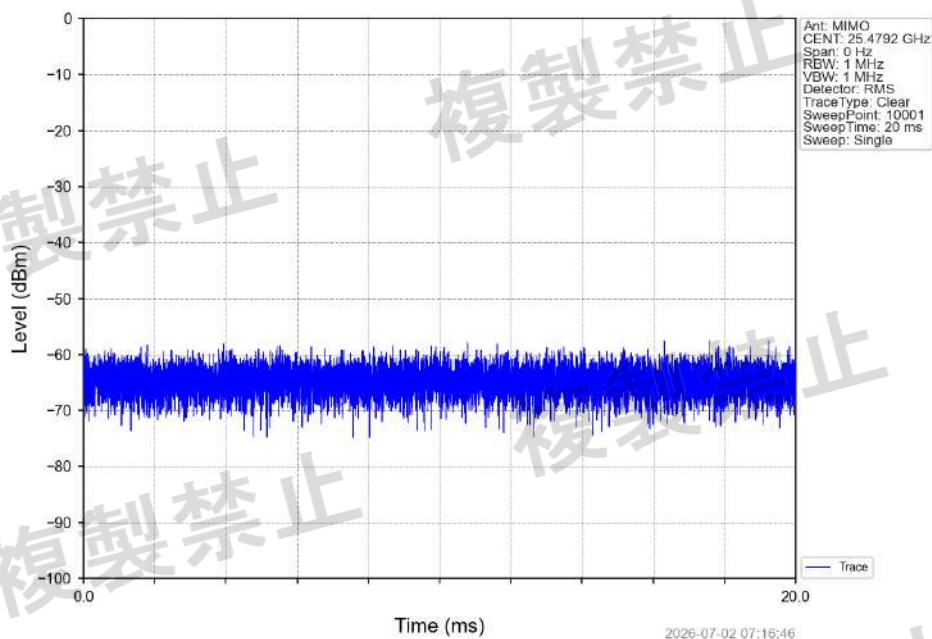


802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN

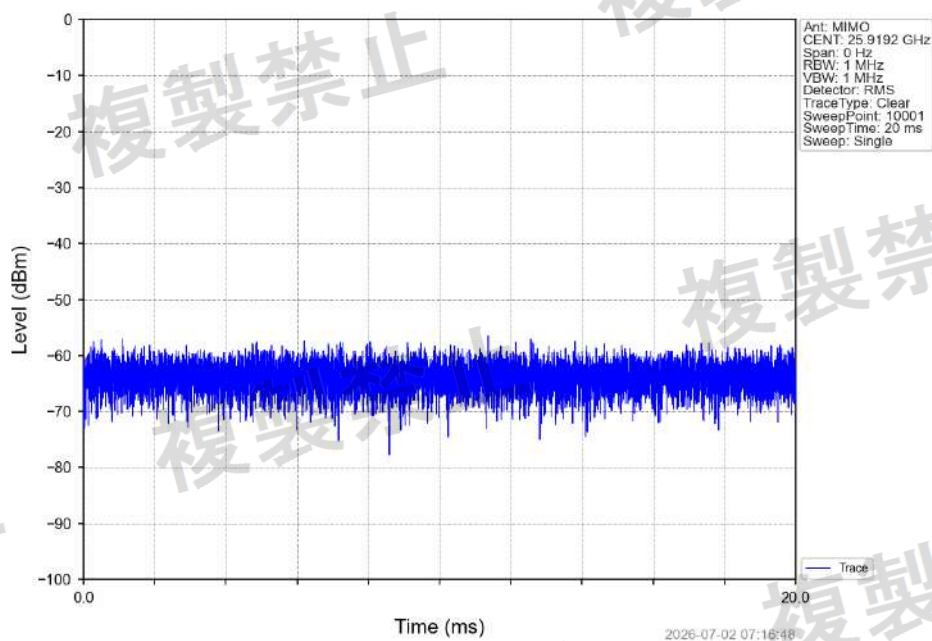




802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN

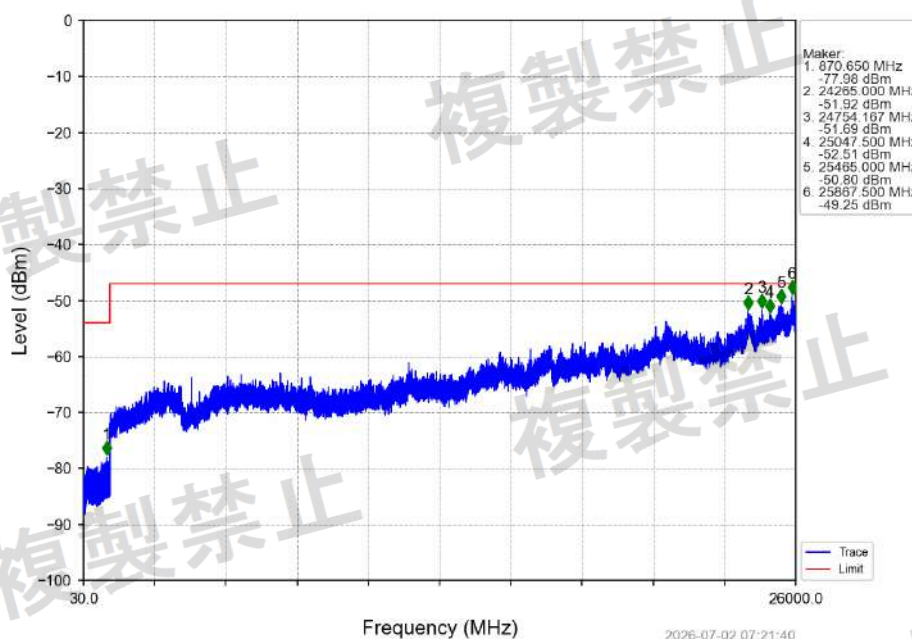


802.11ax(HEW80) MCH 5210MHz SU / MIMO NTN

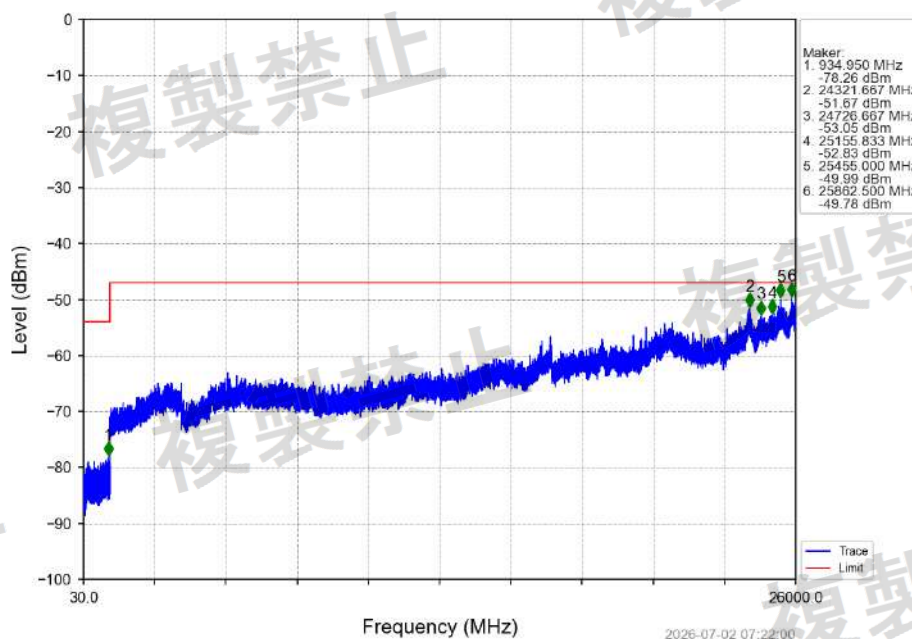




802.11ax(HEW80) MCH 5290MHz SU / Ant1 NTN

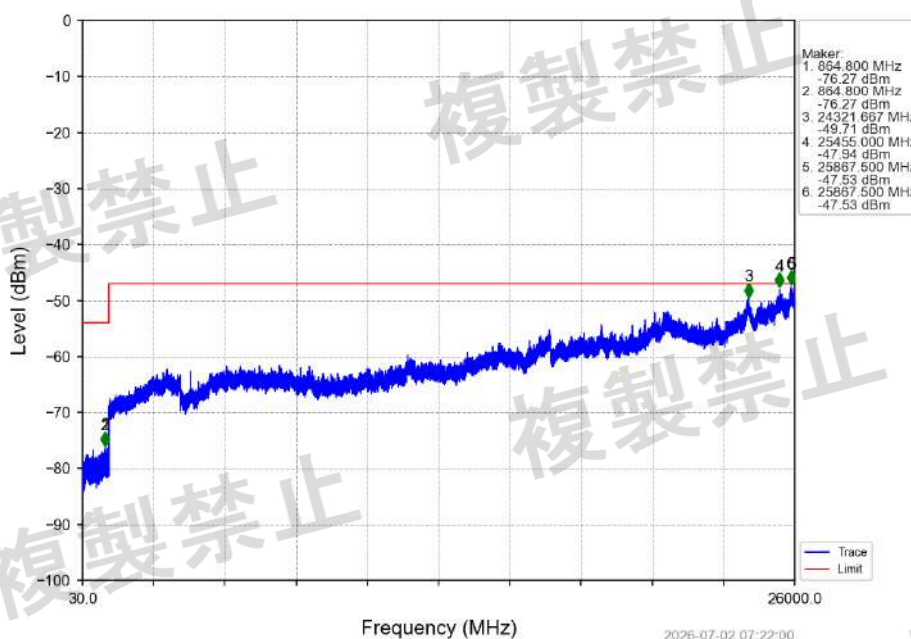


802.11ax(HEW80) MCH 5290MHz SU / Ant2 NTN

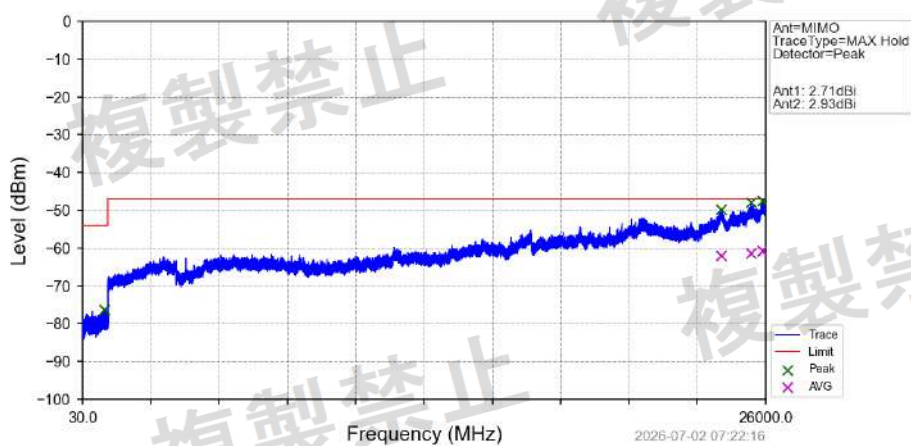




802.11ax(HEW80) MCH 5290MHz SU / MIMO NTN



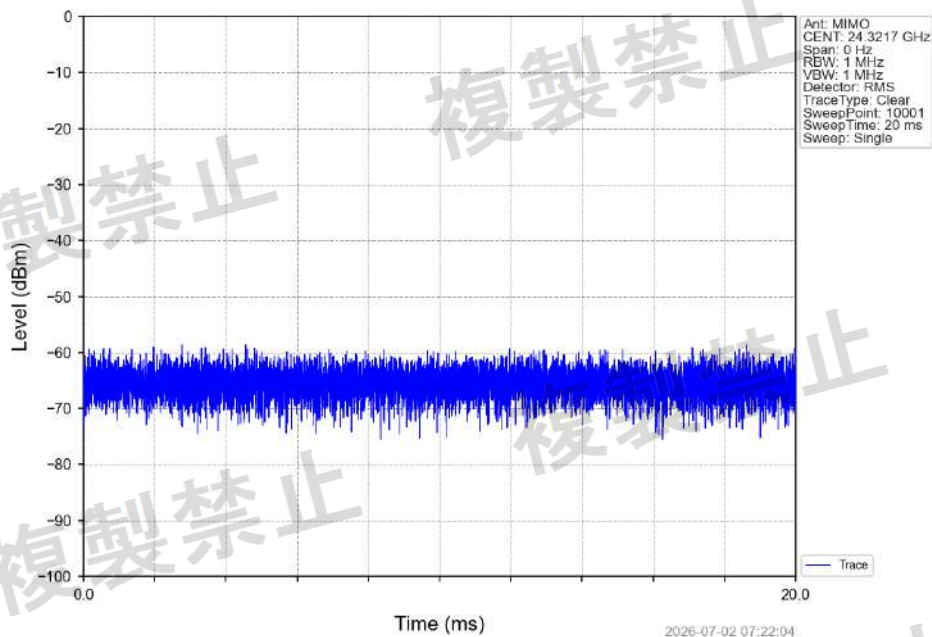
802.11ax(HEW80) MCH 5290MHz SU / MIMO NTN



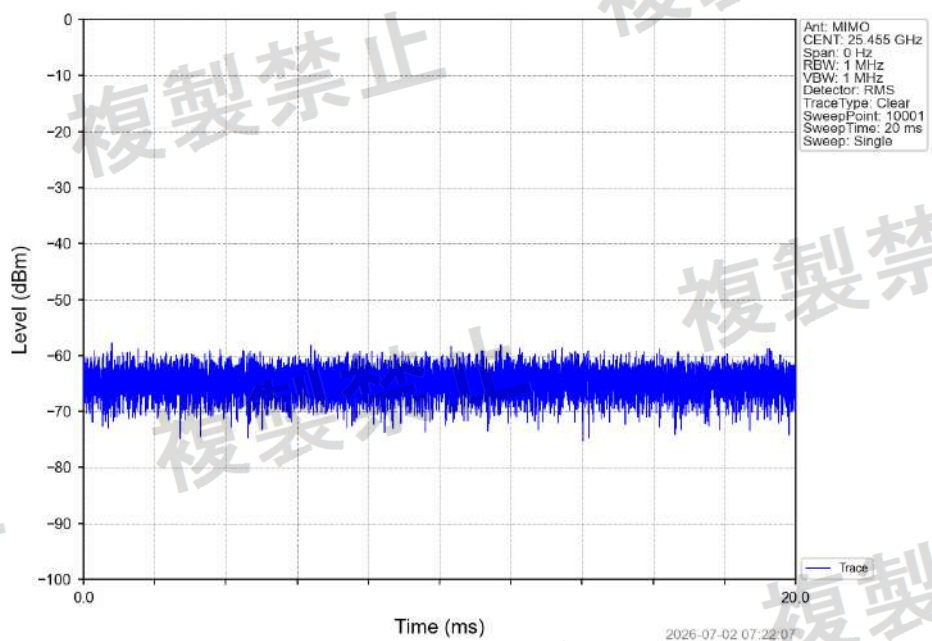
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	864.800	-76.27	/	-54	Pass
30	1000	0.1	0.1	864.800	-76.27	/	-54	Pass
1000	26000	1	1	24321.667	-49.71	-61.93	-47	Pass
1000	26000	1	1	25455.000	-47.94	-61.23	-47	Pass
1000	26000	1	1	25867.500	-47.53	-60.72	-47	Pass
1000	26000	1	1	25867.500	-47.53	-60.72	-47	Pass



802.11ax(HEW80) MCH 5290MHz SU / MIMO NTNv

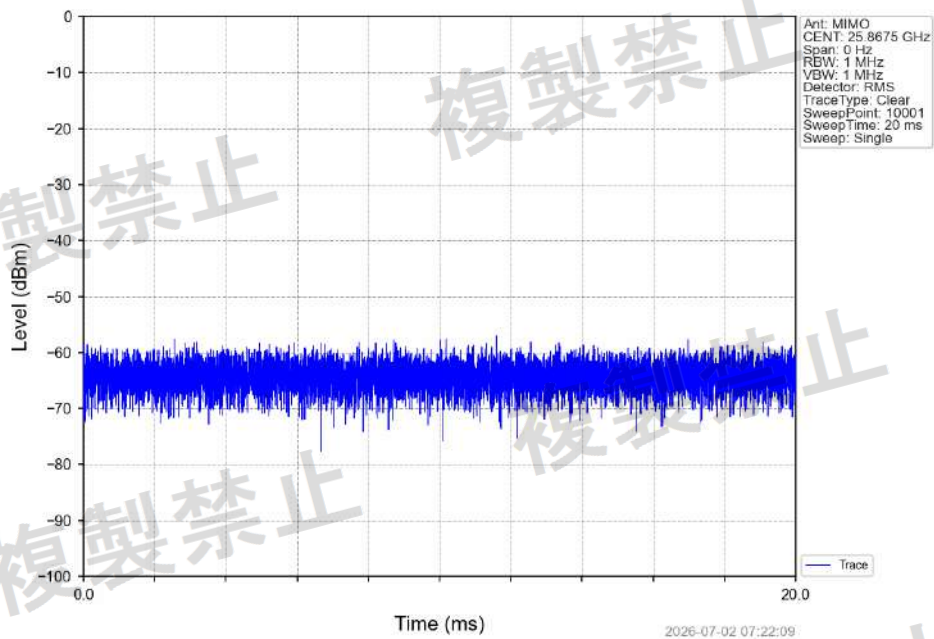


802.11ax(HEW80) MCH 5290MHz SU / MIMO NTNv

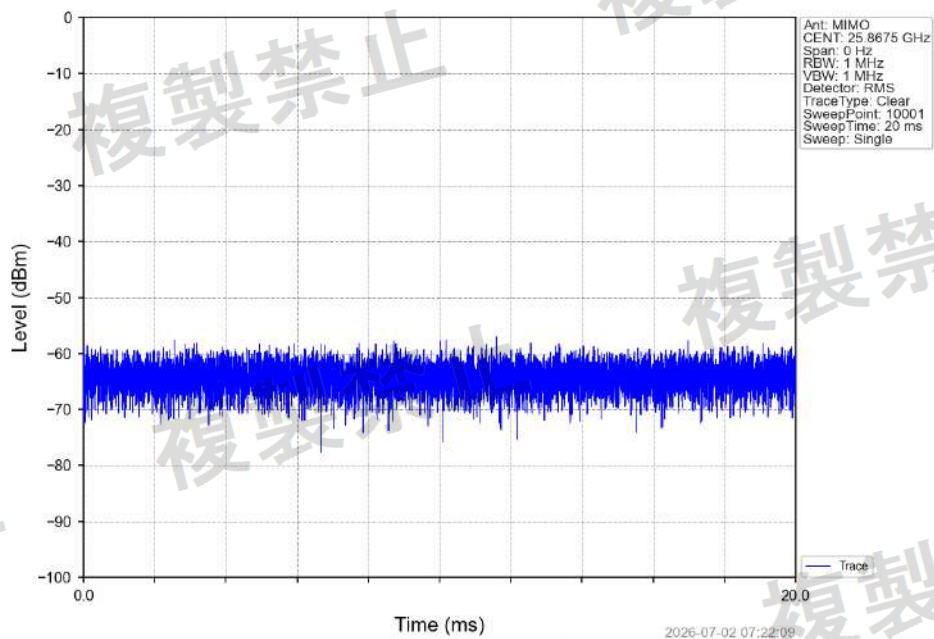




802.11ax(HEW80) MCH 5290MHz SU / MIMO NTN

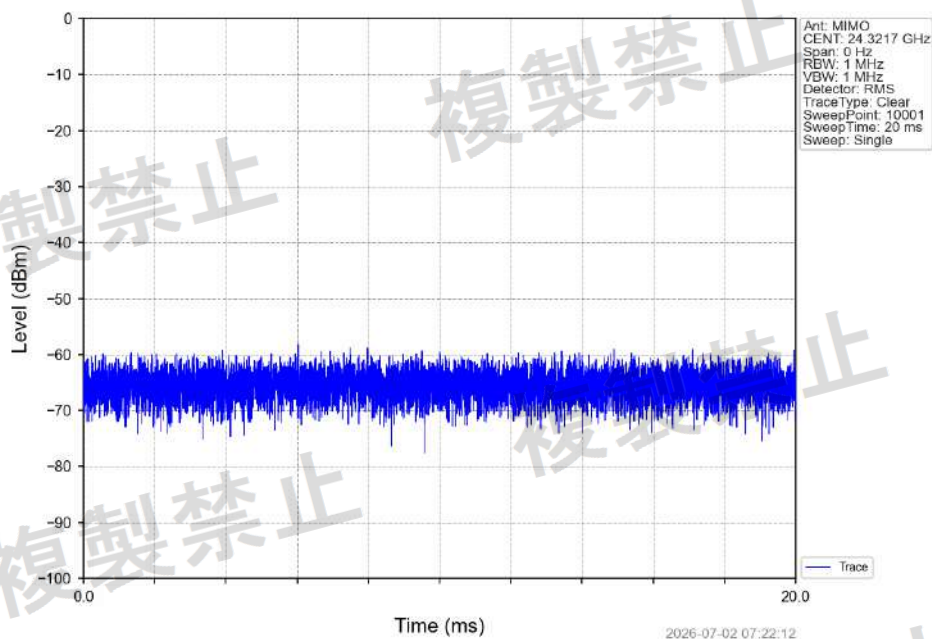


802.11ax(HEW80) MCH 5290MHz SU / MIMO NTN

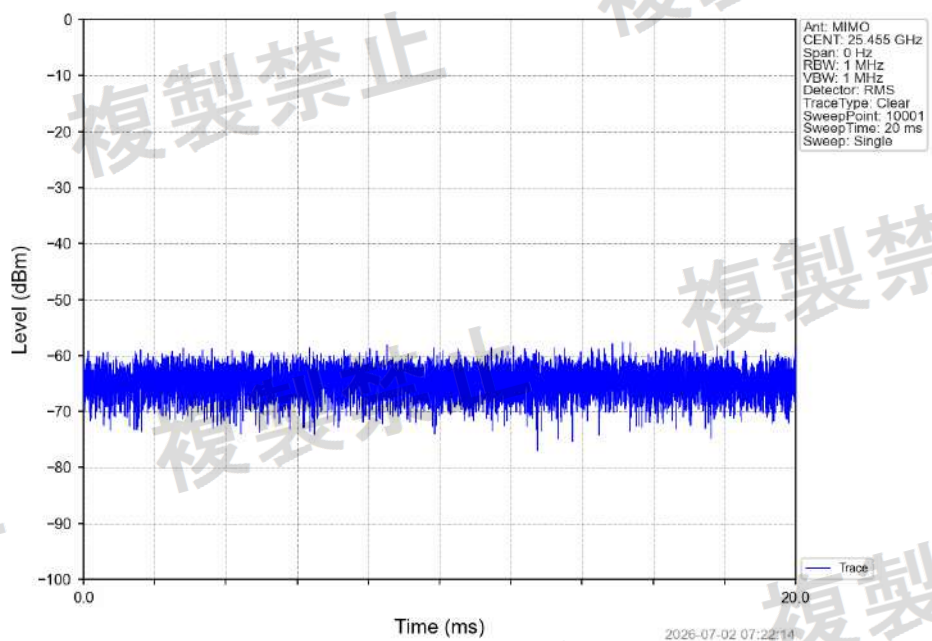




802.11ax(HEW80) MCH 5290MHz SU / MIMO NTN

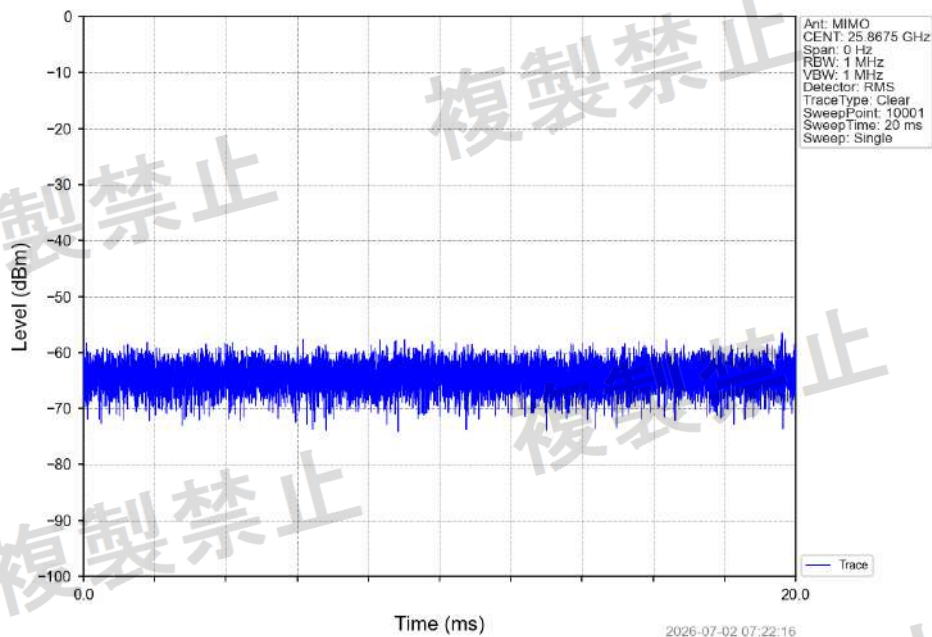


802.11ax(HEW80) MCH 5290MHz SU / MIMO NTN

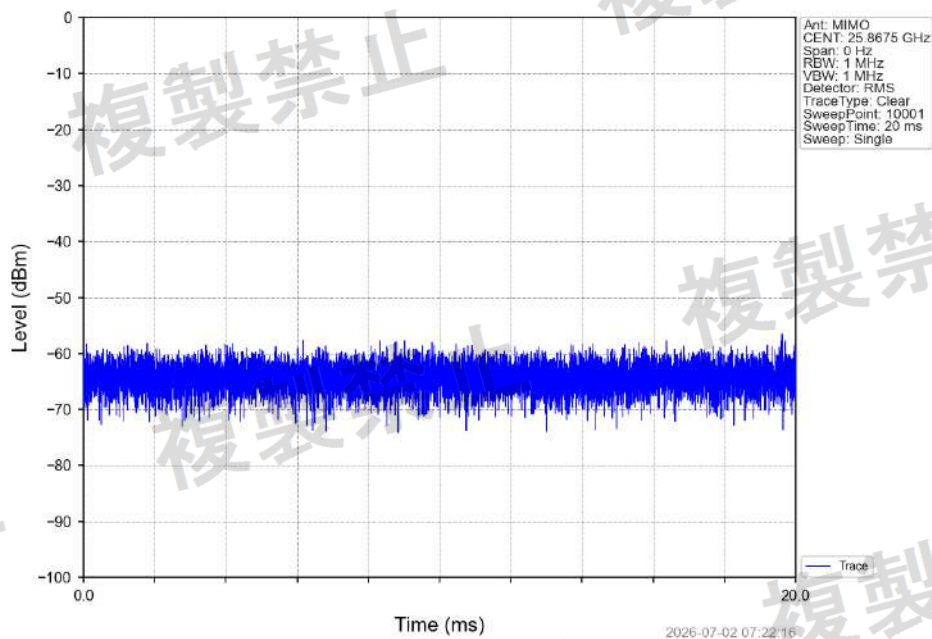




802.11ax(HEW80) MCH 5290MHz SU / MIMO NTN

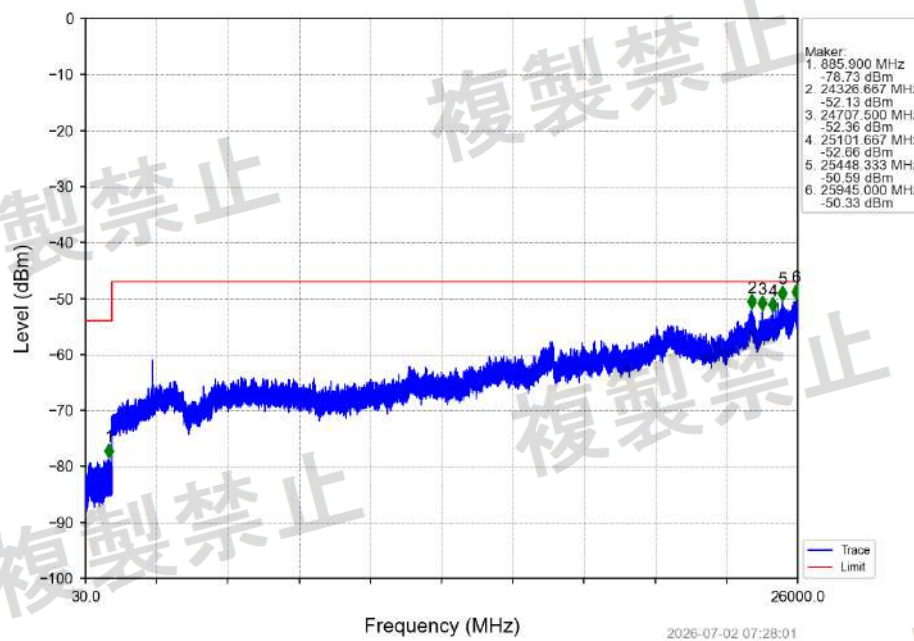


802.11ax(HEW80) MCH 5290MHz SU / MIMO NTN

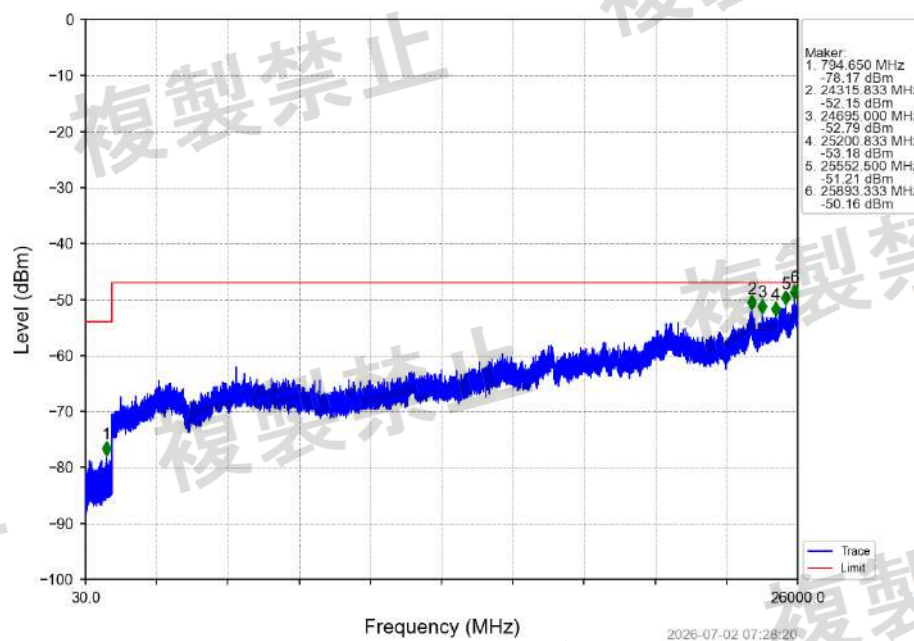




802.11ax(HEW80) LCH 5530MHz SU / Ant1 NTN

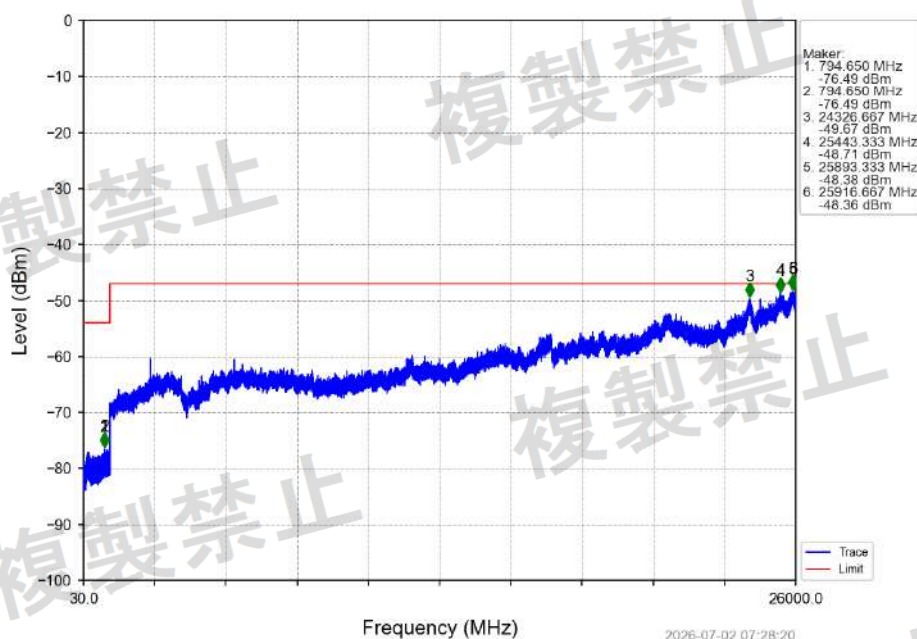


802.11ax(HEW80) LCH 5530MHz SU / Ant2 NTN

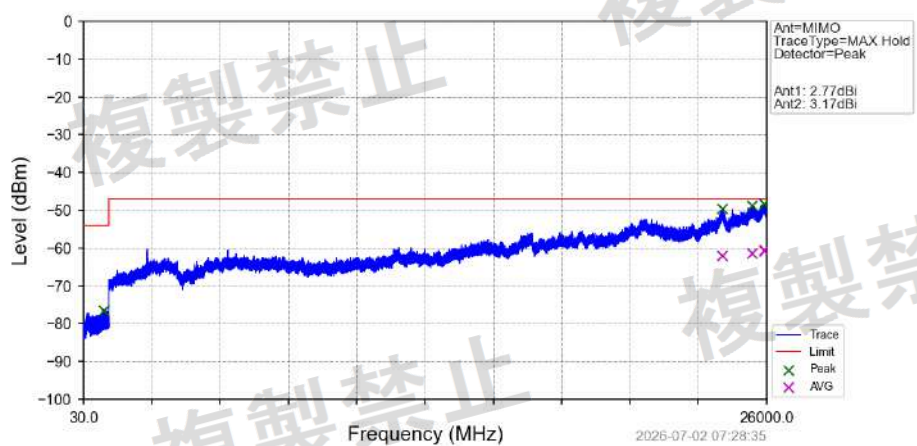




802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN



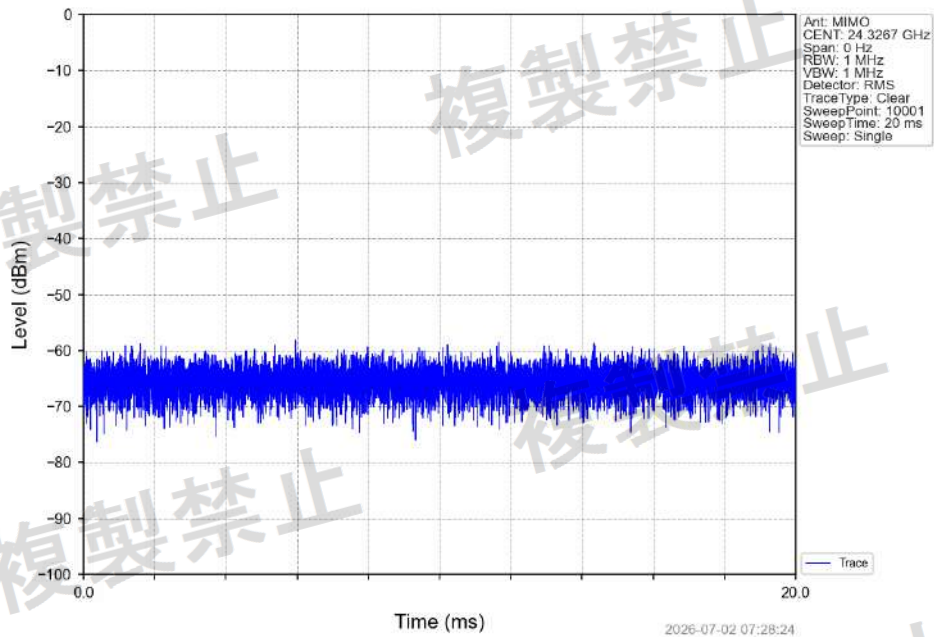
802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN



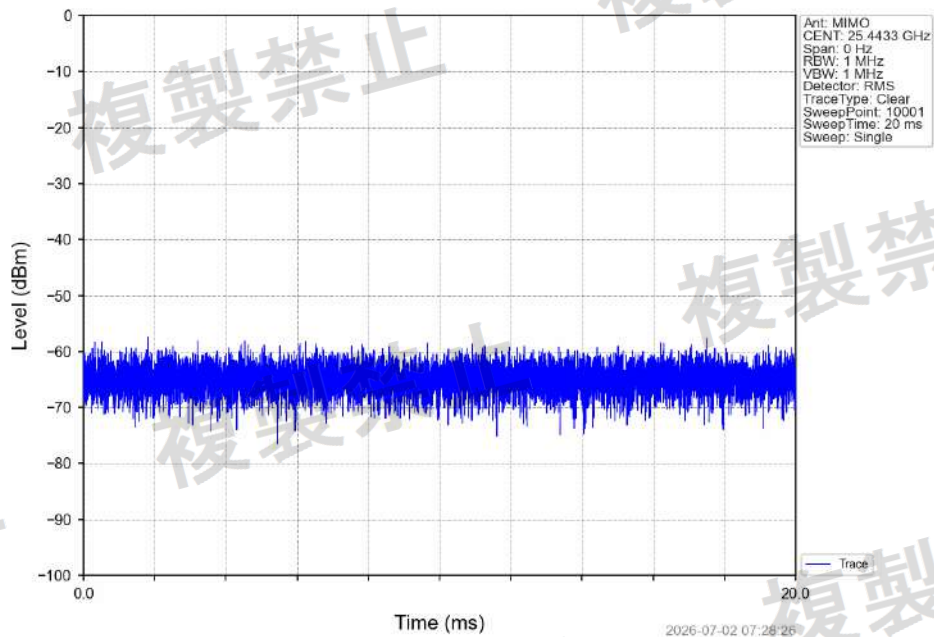
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	794.650	-76.49	/	-54	Pass
30	1000	0.1	0.1	794.650	-76.49	/	-54	Pass
1000	26000	1	1	24326.667	-49.67	-61.98	-47	Pass
1000	26000	1	1	25443.333	-48.71	-61.29	-47	Pass
1000	26000	1	1	25893.333	-48.38	-60.61	-47	Pass
1000	26000	1	1	25916.667	-48.36	-60.39	-47	Pass



802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN

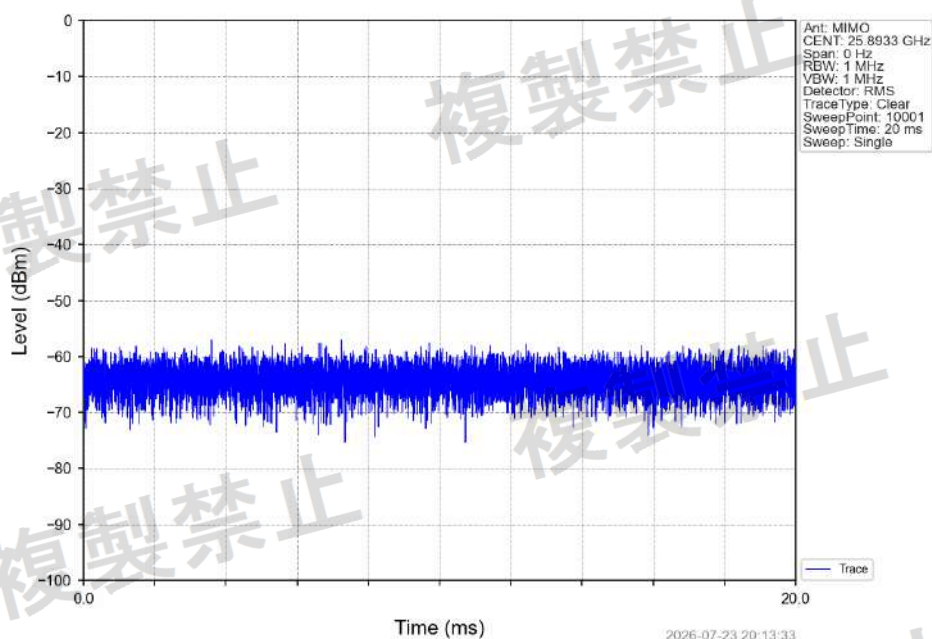


802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN

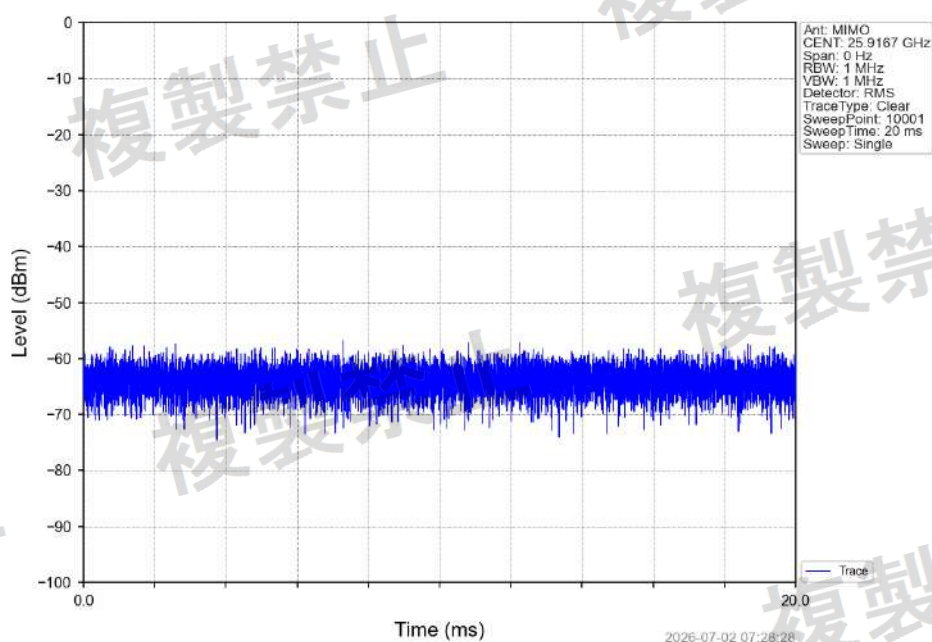




802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN

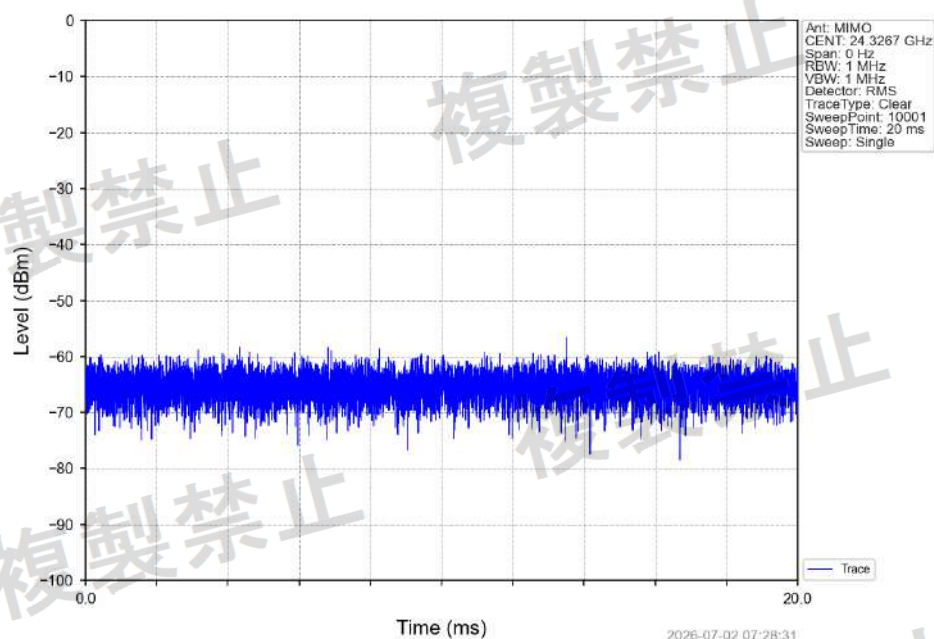


802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN

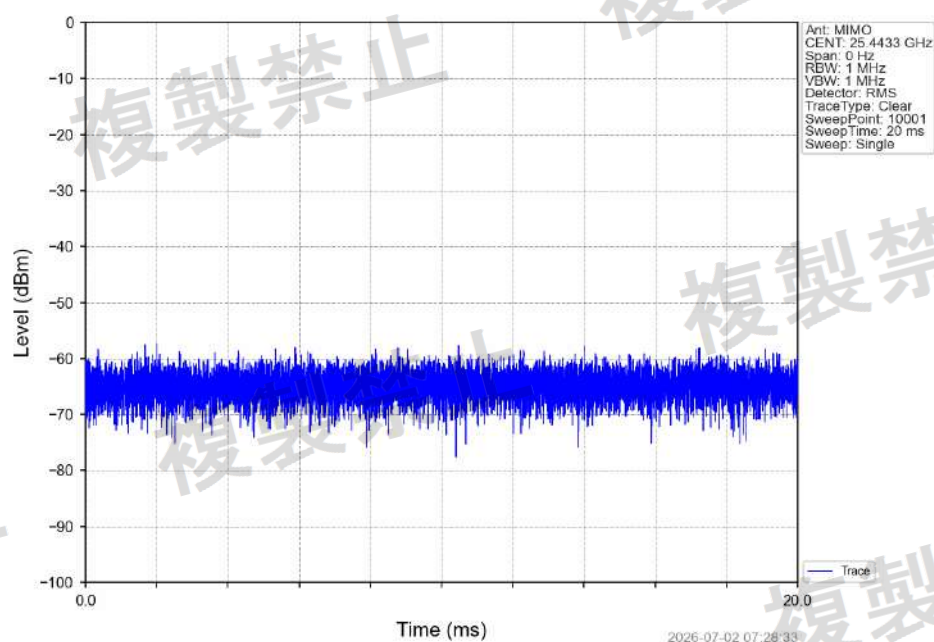




802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN

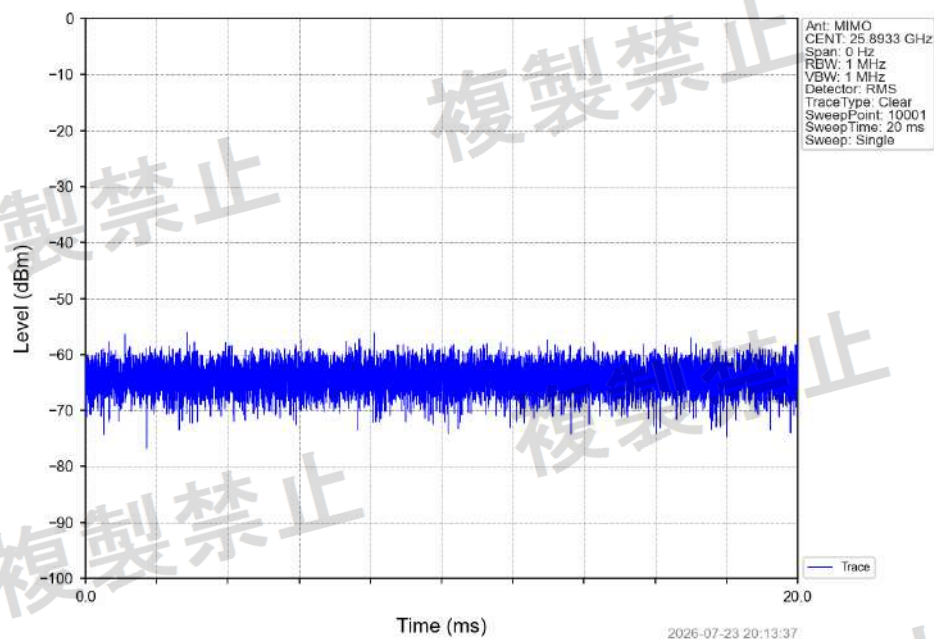


802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN

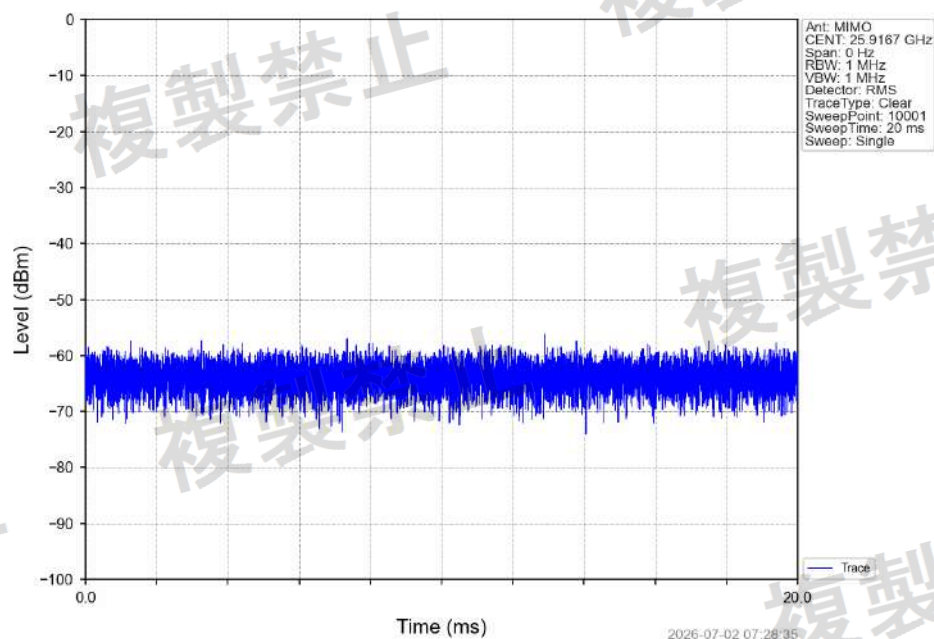




802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN

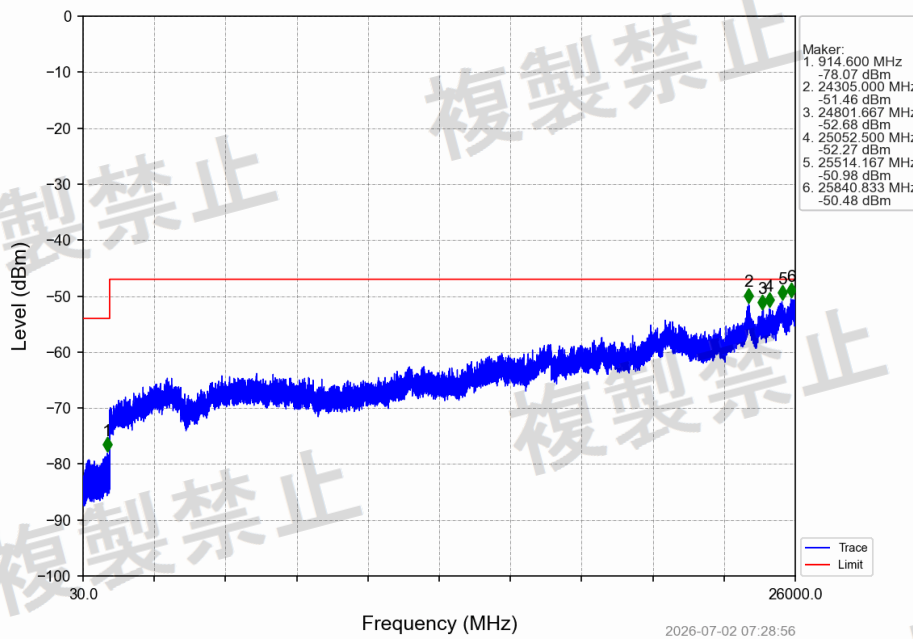


802.11ax(HEW80) LCH_5530MHz SU / MIMO NTN

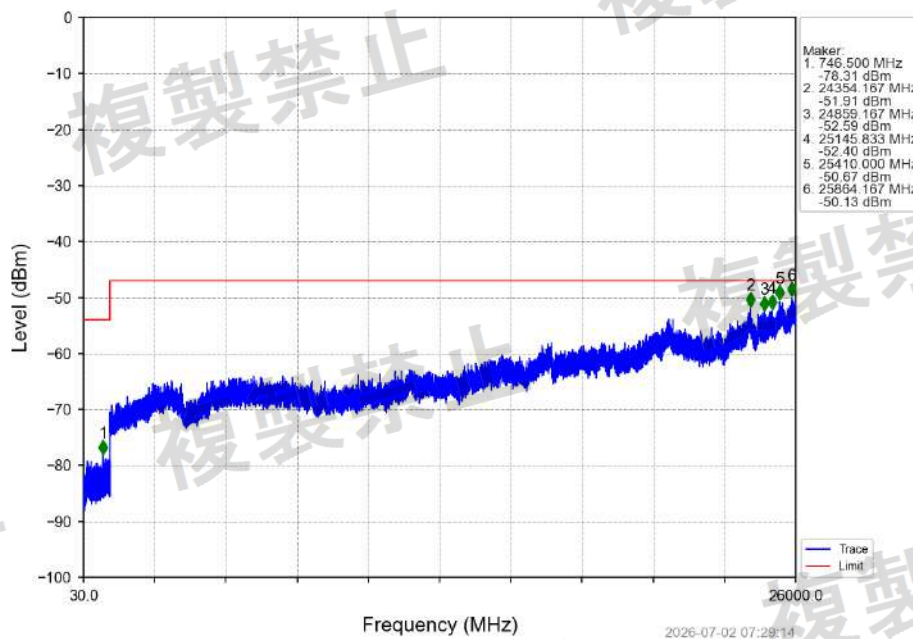




802.11ax(HEW80) HCH 5610MHz SU / Ant1 NTN

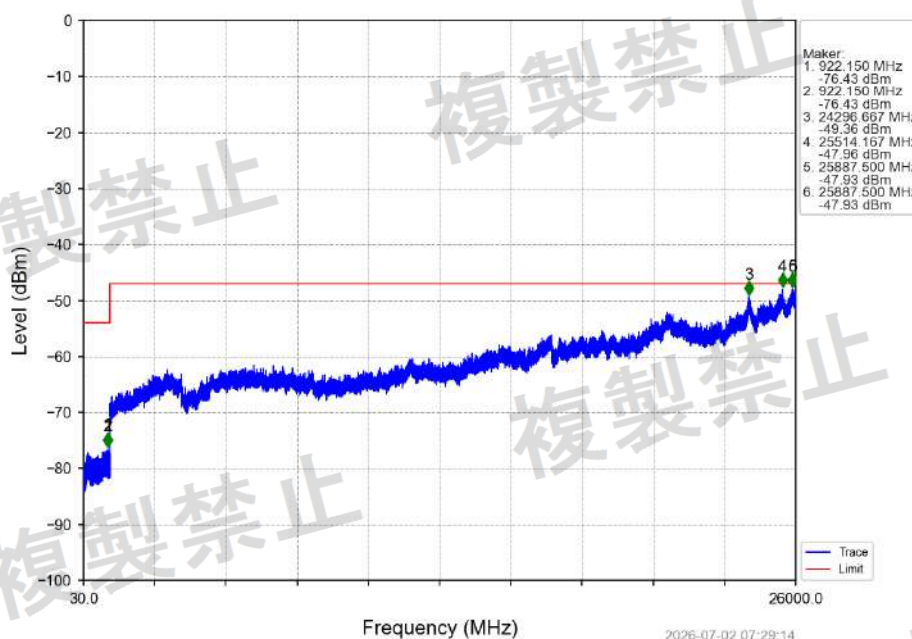


802.11ax(HEW80) HCH 5610MHz SU / Ant2 NTN

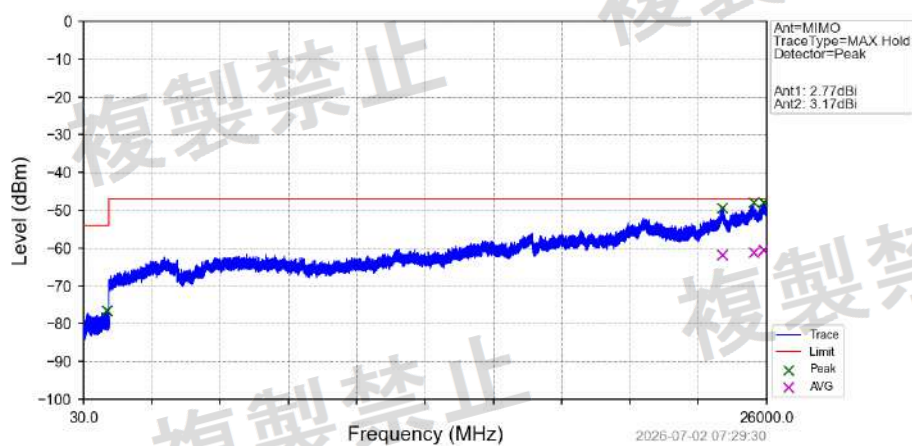




802.11ax(HEW80) HCH 5610MHz SU / MIMO NTN



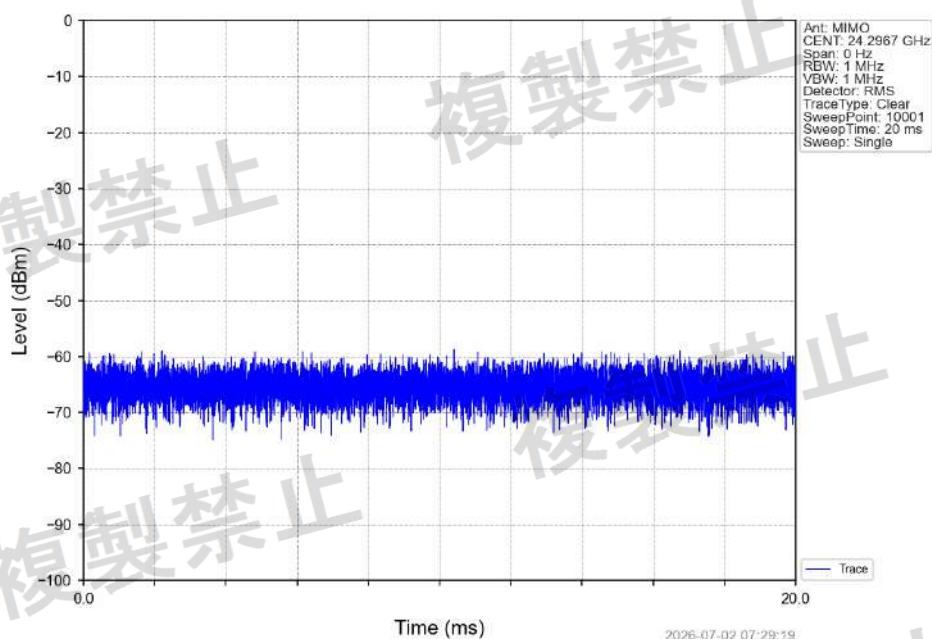
802.11ax(HEW80) HCH 5610MHz SU / MIMO NTN



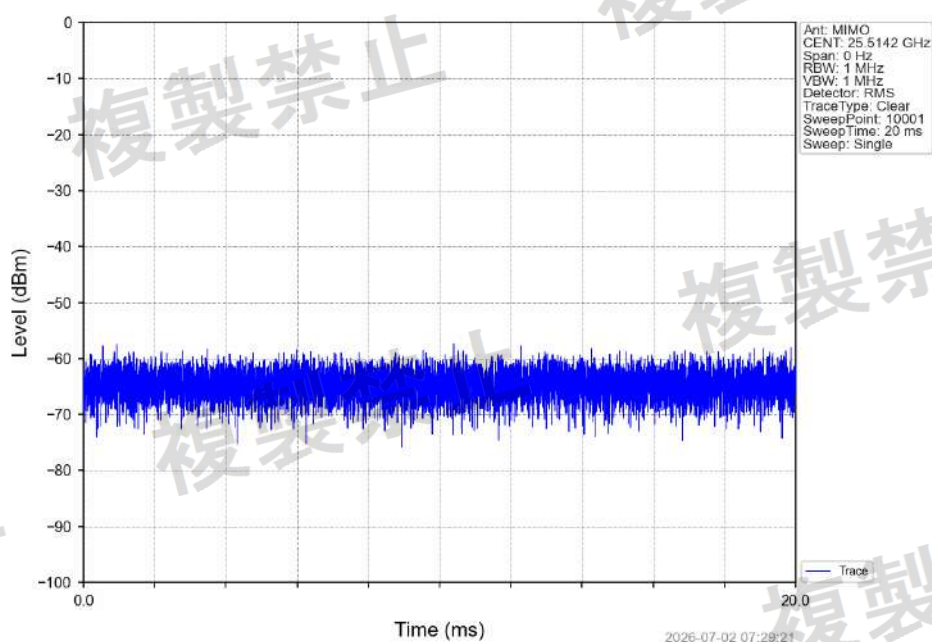
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	922.150	-76.43	/	-54	Pass
30	1000	0.1	0.1	922.150	-76.43	/	-54	Pass
1000	26000	1	1	24296.667	-49.36	-61.84	-47	Pass
1000	26000	1	1	25514.167	-47.96	-61.12	-47	Pass
1000	26000	1	1	25887.500	-47.93	-60.50	-47	Pass
1000	26000	1	1	25887.500	-47.93	-60.50	-47	Pass



802.11ax(HEW80) HCH 5610MHz SU / MIMO NTN

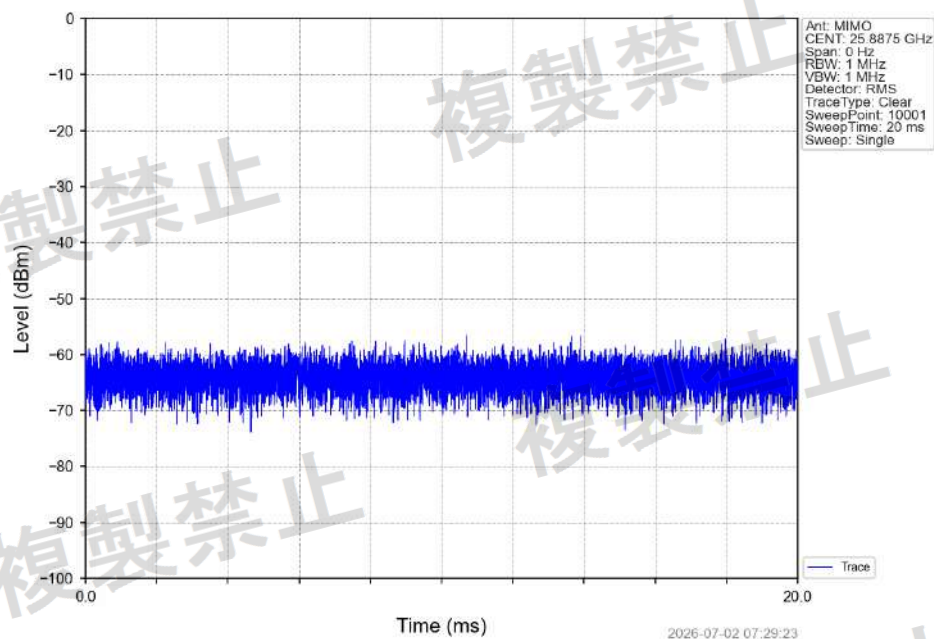


802.11ax(HEW80) HCH 5610MHz SU / MIMO NTN

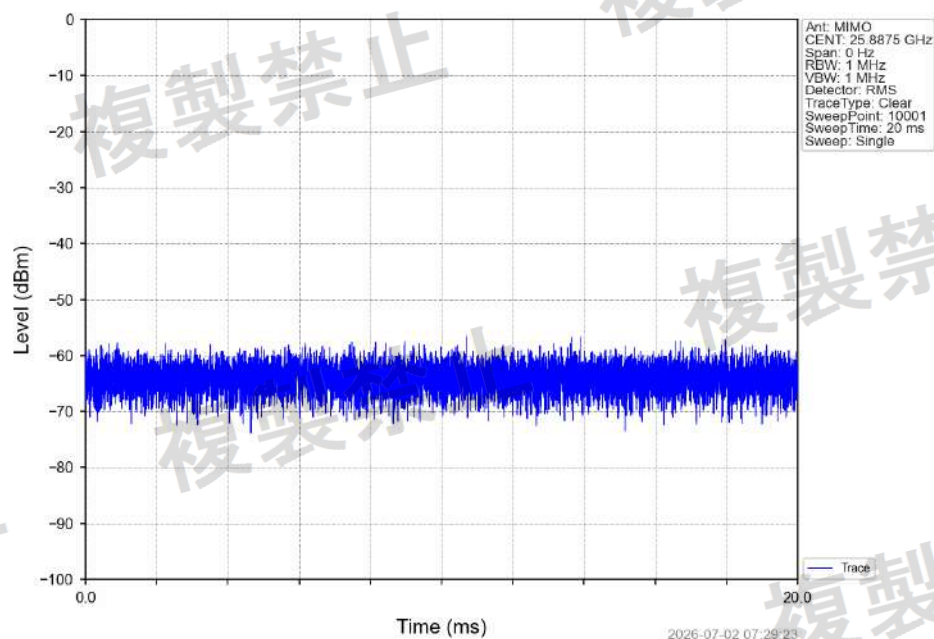




802.11ax(HEW80) HCH 5610MHz SU / MIMO NTN

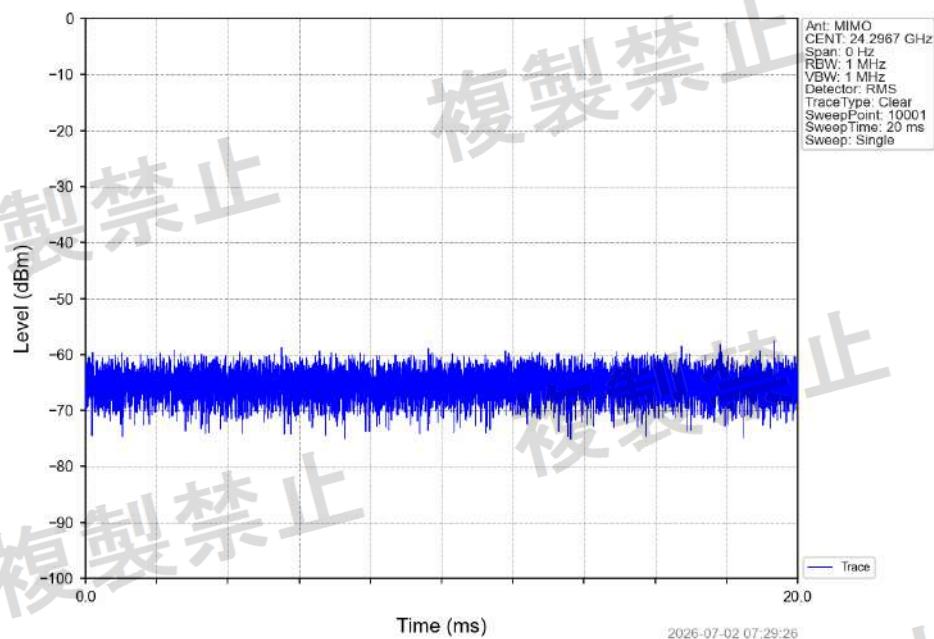


802.11ax(HEW80) HCH 5610MHz SU / MIMO NTN

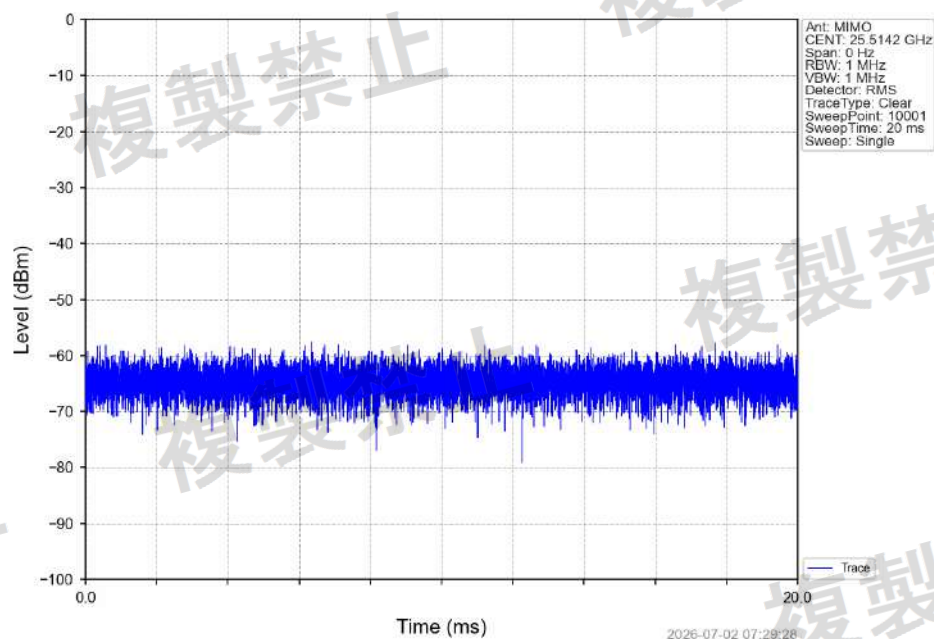




802.11ax(HEW80) HCH 5610MHz SU / MIMO NTNv

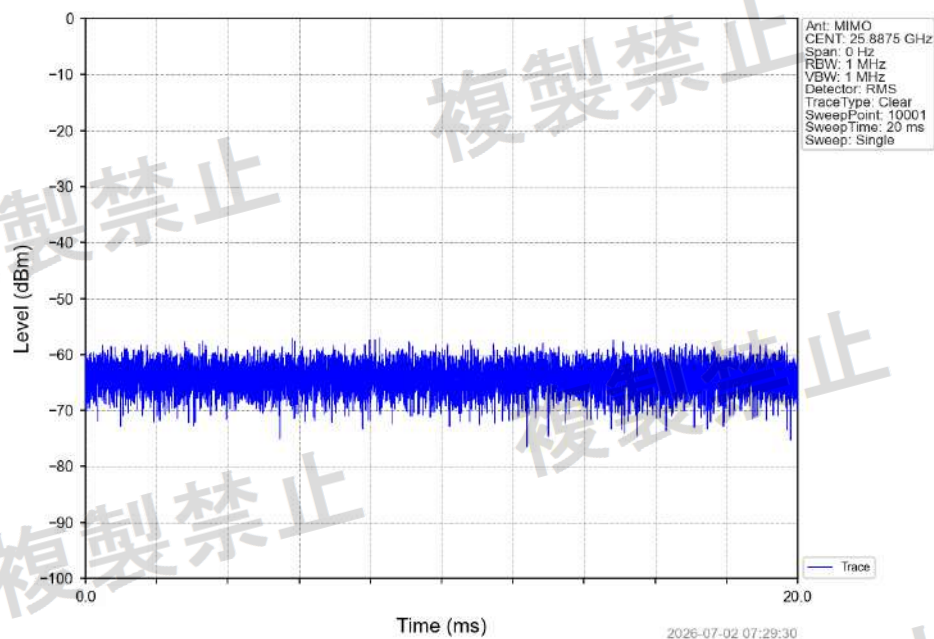


802.11ax(HEW80) HCH 5610MHz SU / MIMO NTNv

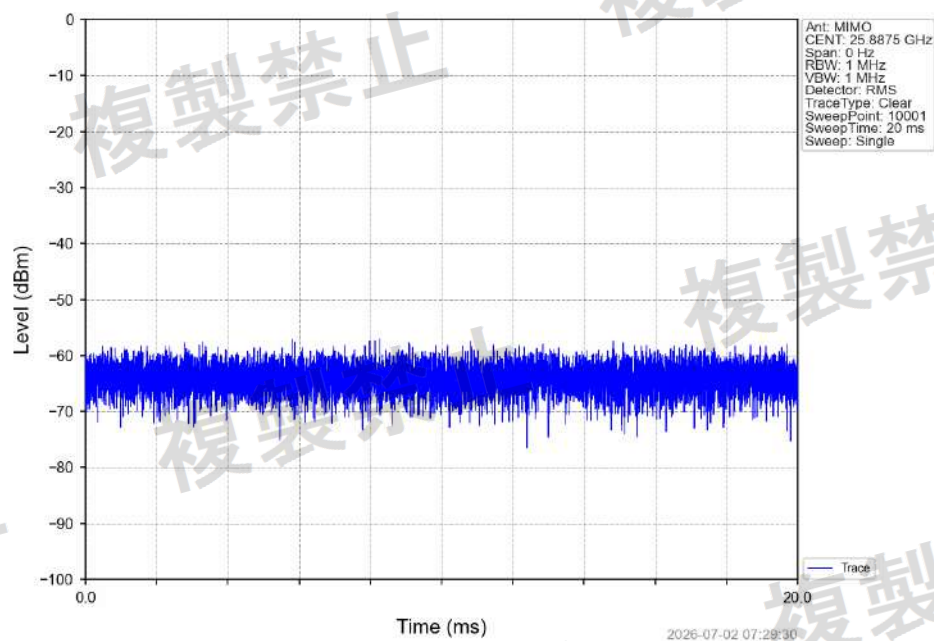




802.11ax(HEW80) HCH 5610MHz SU / MIMO NTN



802.11ax(HEW80) HCH 5610MHz SU / MIMO NTN

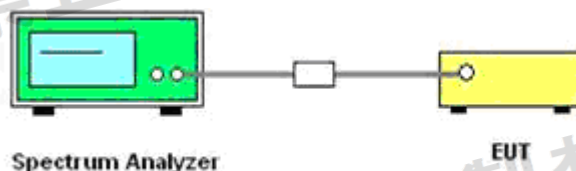


3.8 Transmission Burst Length

LIMIT

Transmission Burst Length shall be 8ms or less.

TEST CONFIGURATION



TEST PROCEDURE

Enable EUT under transmission mode and connected it to the spectrum analyzer through antenna output port as the block diagram show in TEST CONFIGURATION

Use Spectrum's ACP measurement function and set spectrum analyzer as follow:

Spectrum Condition:

- Frequency: test frequency
- Span: 0Hz
- RBW: 8MHz
- VBW: =RBW
- Sweep time: Auto
- Sweep mode: single
- Detector mode: Peak
- Indication mode: max hold

TEST RESULTS

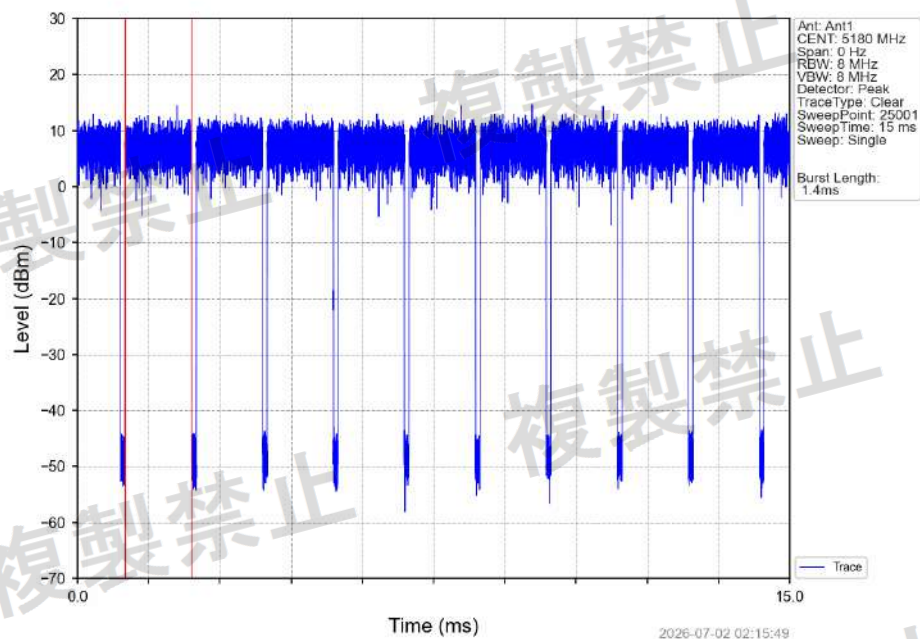
Ant1 NTN							
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Burst Length (ms)		Verdict
					Result	Limit	
802.11a	MIMO	5180	/	/	1.399	<=8	Pass
		5200	/	/	1.399	<=8	Pass
		5240	/	/	1.399	<=8	Pass
		5260	/	/	1.399	<=8	Pass
		5300	/	/	1.399	<=8	Pass
		5320	/	/	1.399	<=8	Pass
		5500	/	/	1.399	<=8	Pass
		5600	/	/	1.399	<=8	Pass
802.11n (HT20)	MIMO	5700	/	/	1.399	<=8	Pass
		5180	/	/	1.311	<=8	Pass
		5200	/	/	1.311	<=8	Pass
		5240	/	/	1.311	<=8	Pass
		5260	/	/	1.311	<=8	Pass
		5300	/	/	1.311	<=8	Pass
		5320	/	/	1.311	<=8	Pass
		5500	/	/	1.310	<=8	Pass
802.11n (HT40)	MIMO	5600	/	/	1.310	<=8	Pass
		5700	/	/	1.311	<=8	Pass
		5190	/	/	0.651	<=8	Pass
		5230	/	/	0.651	<=8	Pass
		5270	/	/	0.651	<=8	Pass
		5310	/	/	0.651	<=8	Pass
		5510	/	/	0.649	<=8	Pass
		5590	/	/	0.651	<=8	Pass
802.11ac	MIMO	5670	/	/	0.650	<=8	Pass
		5180	/	/	1.319	<=8	Pass



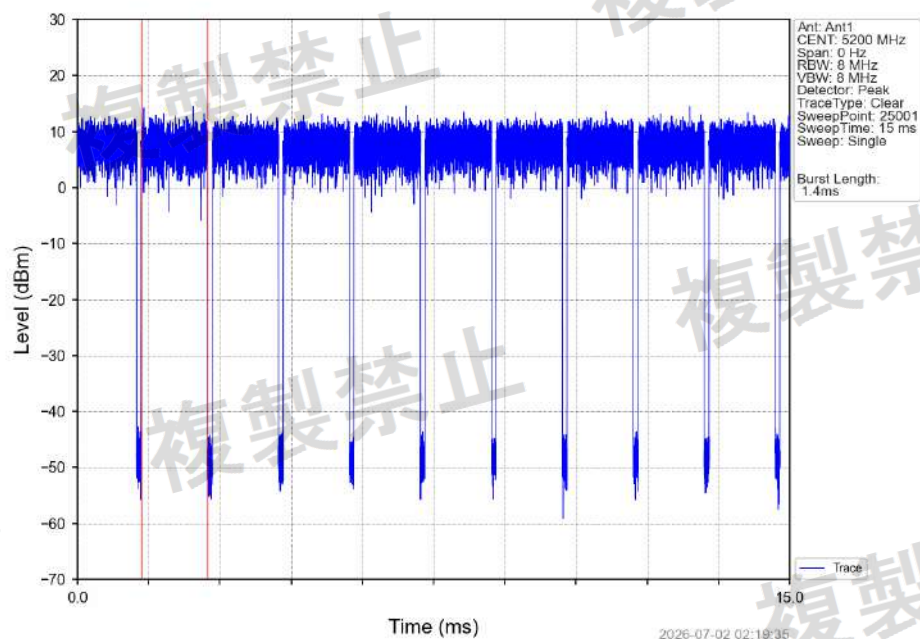
(VHT20)		5200	/	/	1.319	<=8	Pass
		5240	/	/	1.319	<=8	Pass
		5260	/	/	1.319	<=8	Pass
		5300	/	/	1.319	<=8	Pass
		5320	/	/	1.319	<=8	Pass
		5500	/	/	1.319	<=8	Pass
		5600	/	/	1.319	<=8	Pass
		5700	/	/	1.318	<=8	Pass
802.11ac (VHT40)	MIMO	5190	/	/	0.659	<=8	Pass
		5230	/	/	0.659	<=8	Pass
		5270	/	/	0.659	<=8	Pass
		5310	/	/	0.659	<=8	Pass
		5510	/	/	0.659	<=8	Pass
		5590	/	/	0.659	<=8	Pass
802.11ac (VHT80)	MIMO	5670	/	/	0.659	<=8	Pass
		5210	/	/	0.327	<=8	Pass
		5290	/	/	0.326	<=8	Pass
		5530	/	/	0.326	<=8	Pass
802.11ax (HEW20)	MIMO	5610	/	/	0.330	<=8	Pass
		5180	SU	/	1.023	<=8	Pass
		5200	SU	/	1.023	<=8	Pass
		5240	SU	/	1.023	<=8	Pass
		5260	SU	/	1.023	<=8	Pass
		5300	SU	/	1.023	<=8	Pass
		5320	SU	/	1.023	<=8	Pass
		5500	SU	/	1.023	<=8	Pass
802.11ax (HEW40)	MIMO	5600	SU	/	1.023	<=8	Pass
		5700	SU	/	1.024	<=8	Pass
		5190	SU	/	0.543	<=8	Pass
		5230	SU	/	0.543	<=8	Pass
		5270	SU	/	0.543	<=8	Pass
		5310	SU	/	0.543	<=8	Pass
802.11ax (HEW80)	MIMO	5510	SU	/	0.543	<=8	Pass
		5590	SU	/	0.543	<=8	Pass
		5670	SU	/	0.543	<=8	Pass
		5210	SU	/	0.296	<=8	Pass
		5290	SU	/	0.296	<=8	Pass
		5530	SU	/	0.297	<=8	Pass
		5610	SU	/	0.293	<=8	Pass

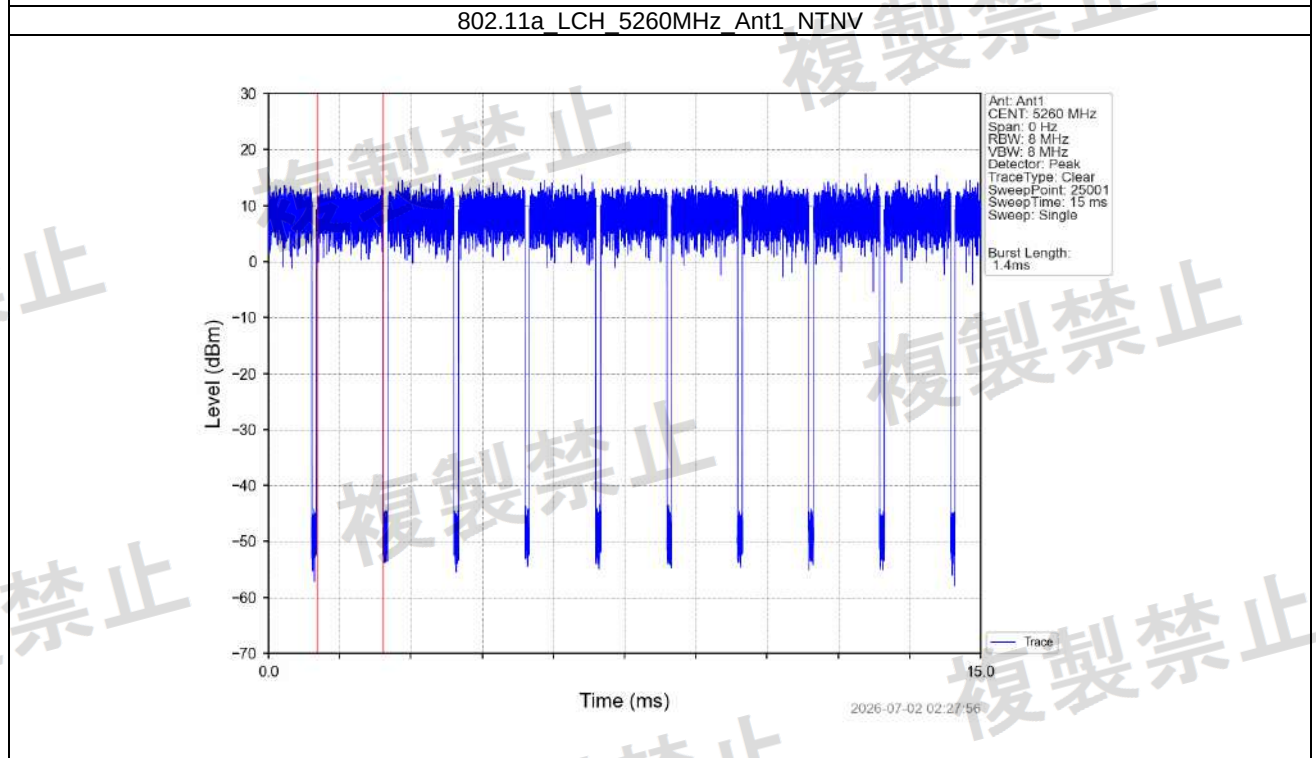
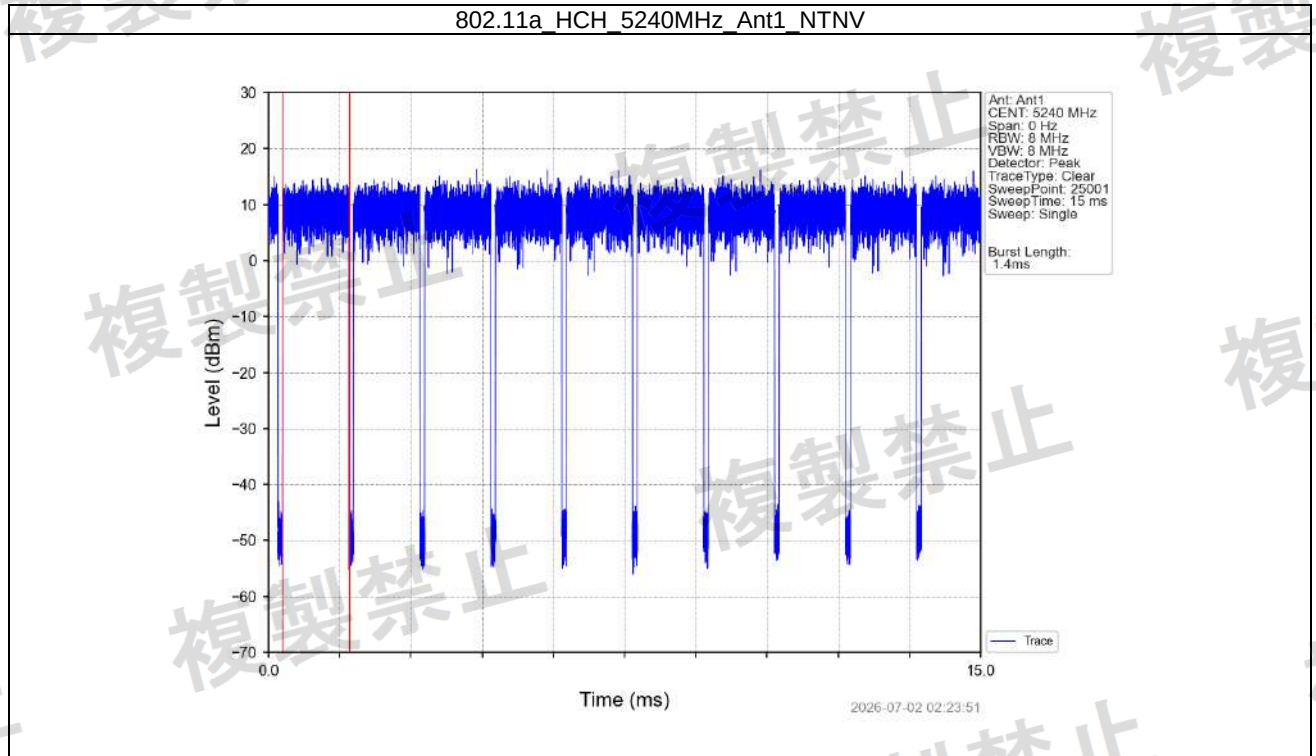


802.11a_LCH_5180MHz_Ant1_NTNV



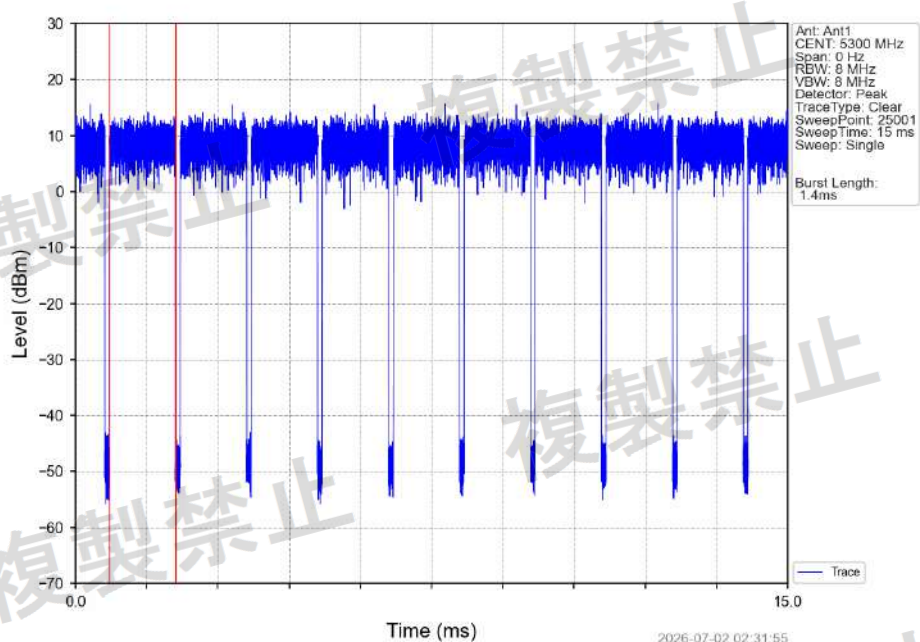
802.11a_MCH_5200MHz_Ant1_NTNV



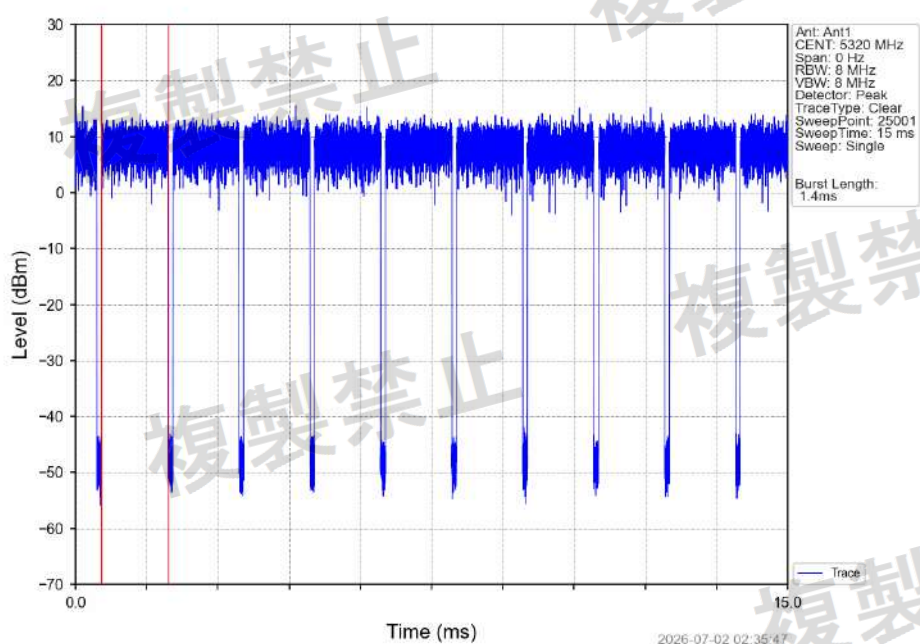




802.11a_MCH_5300MHz_Ant1_NTNV

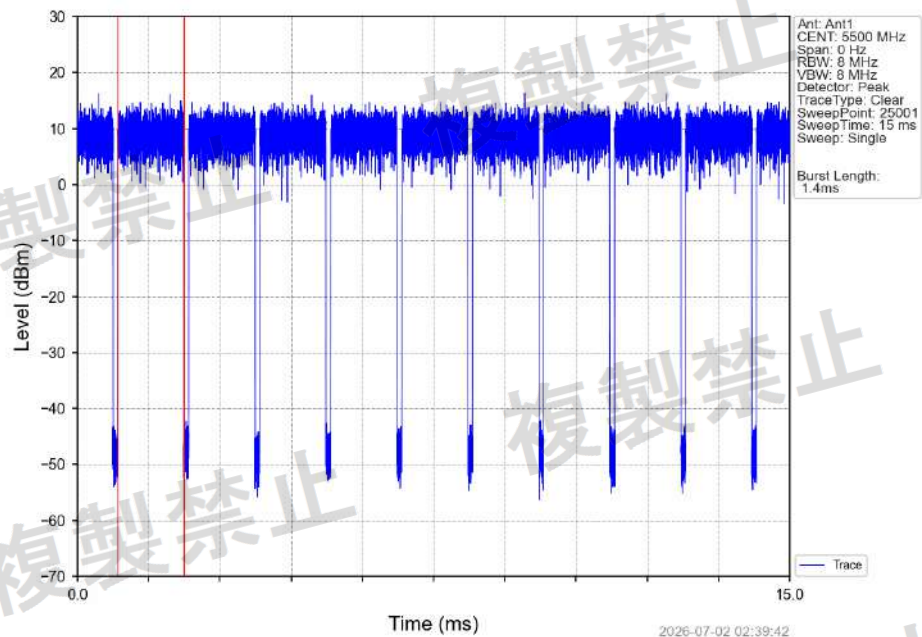


802.11a_HCH_5320MHz_Ant1_NTNV

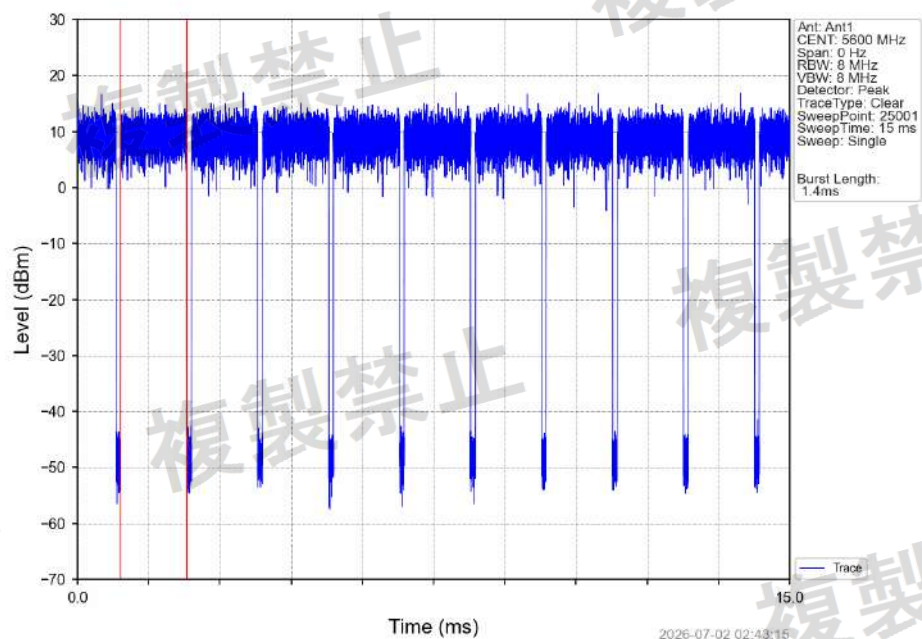




802.11a_LCH_5500MHz_Ant1_NTNV

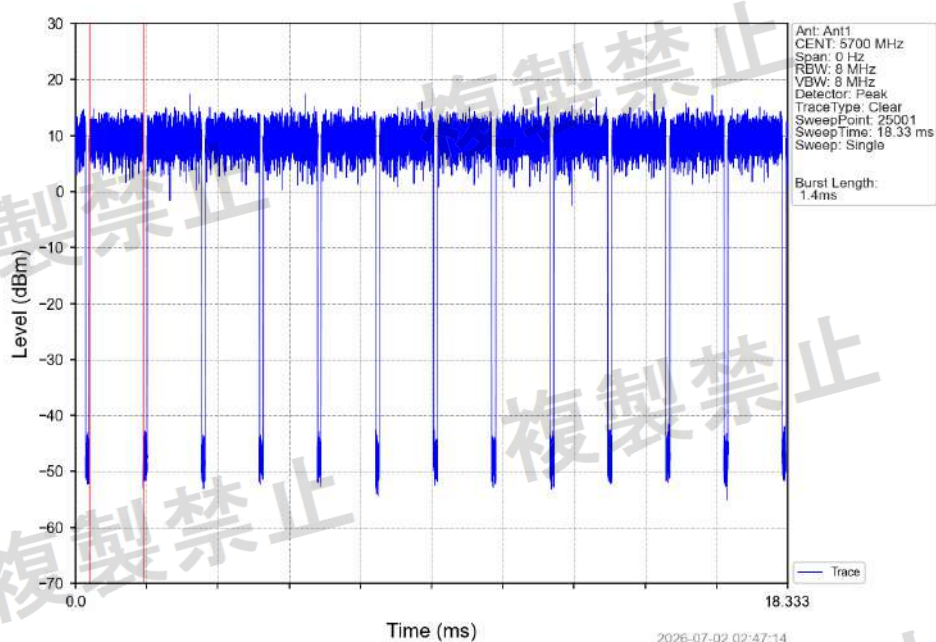


802.11a_MCH_5600MHz_Ant1_NTNV

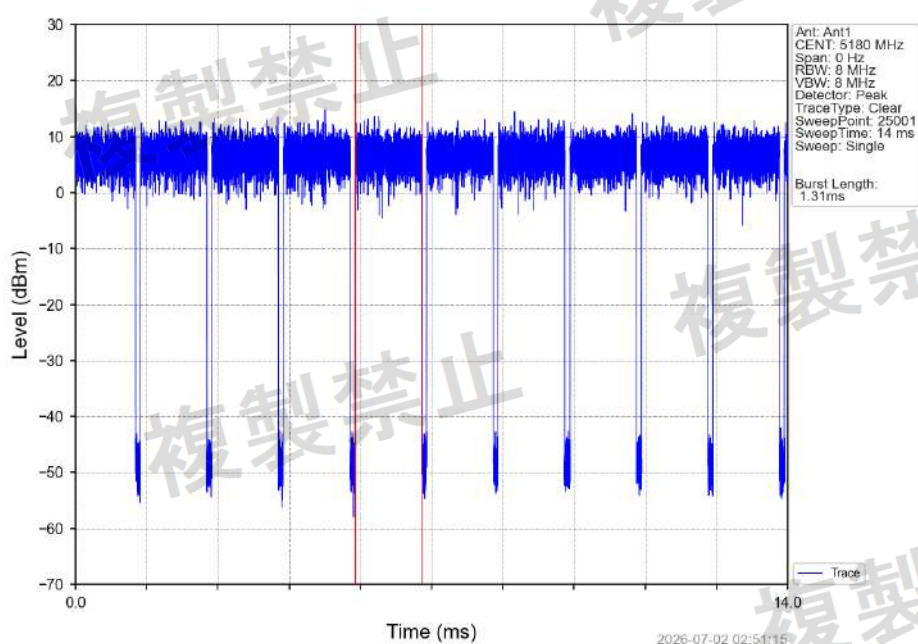




802.11a_HCH_5700MHz_Ant1_NTNV

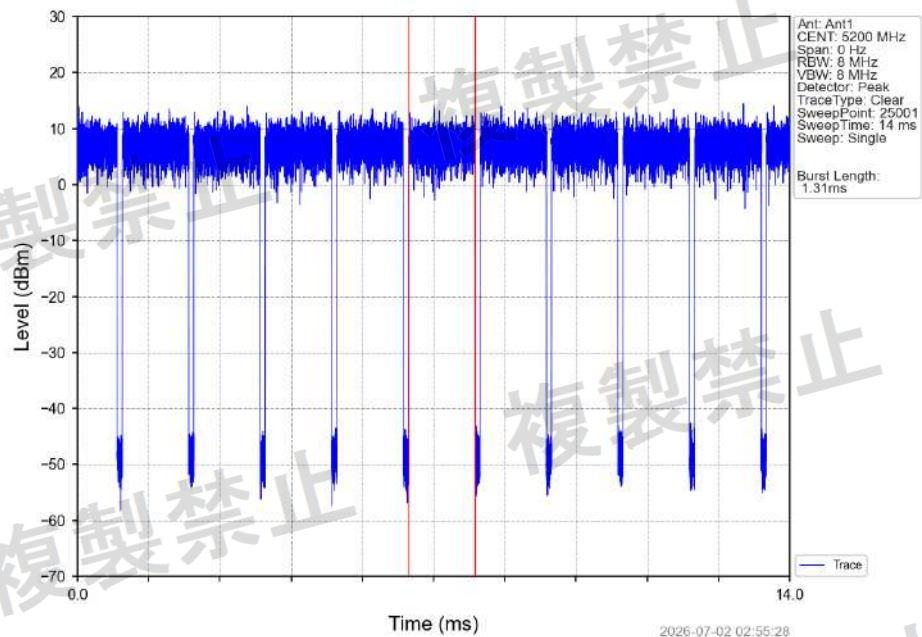


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

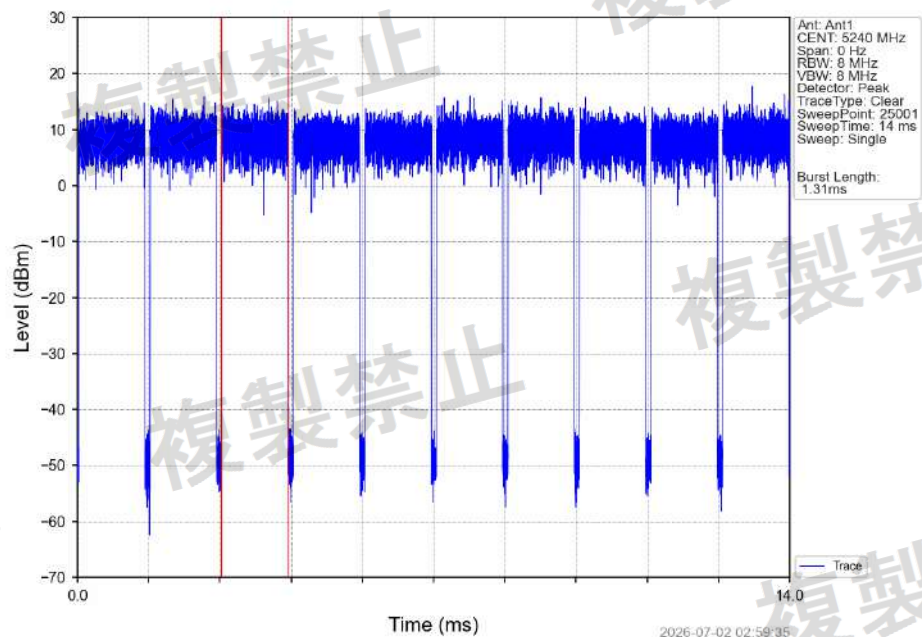




802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

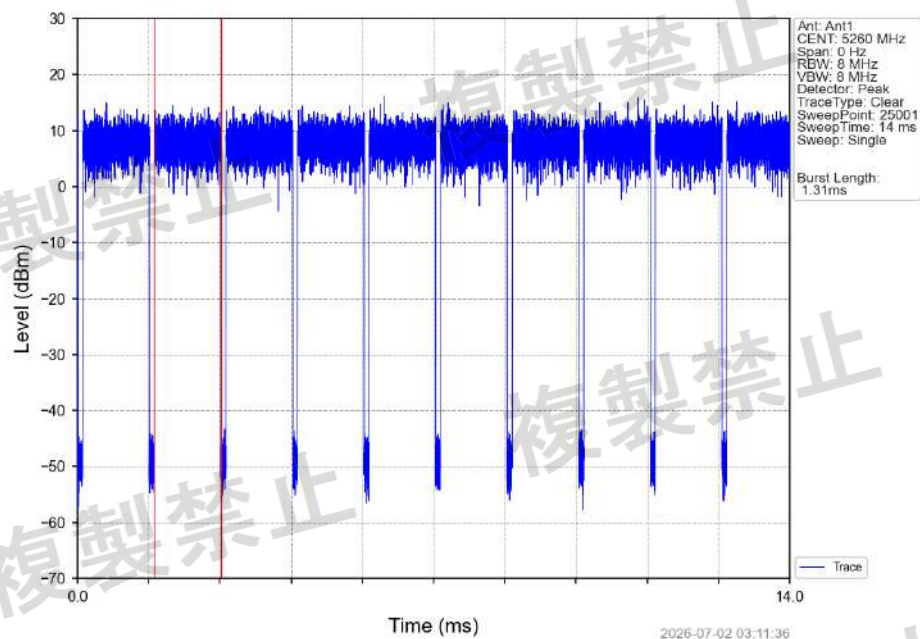


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

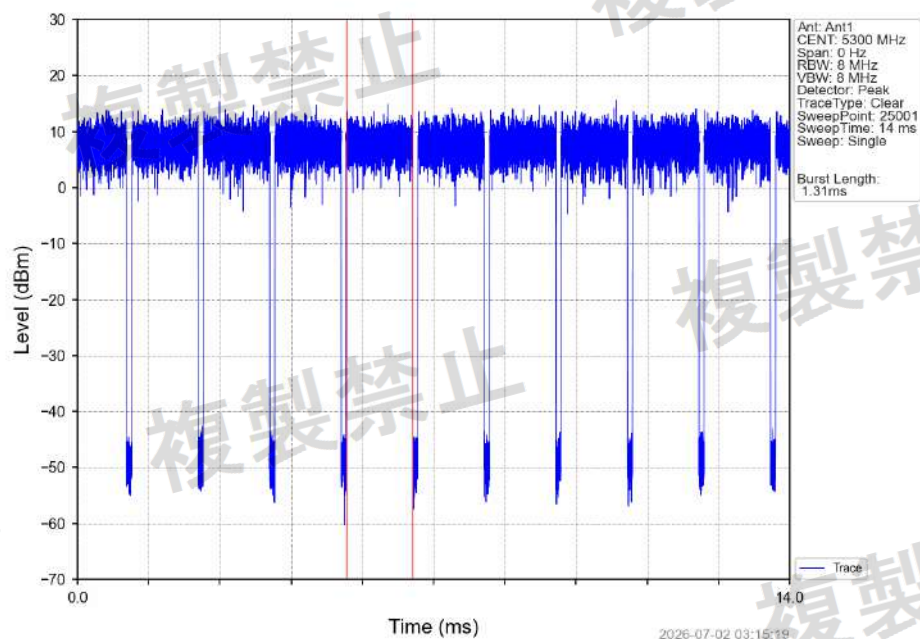




802.11n(HT20)_LCH_5260MHz_Ant1_NTNV

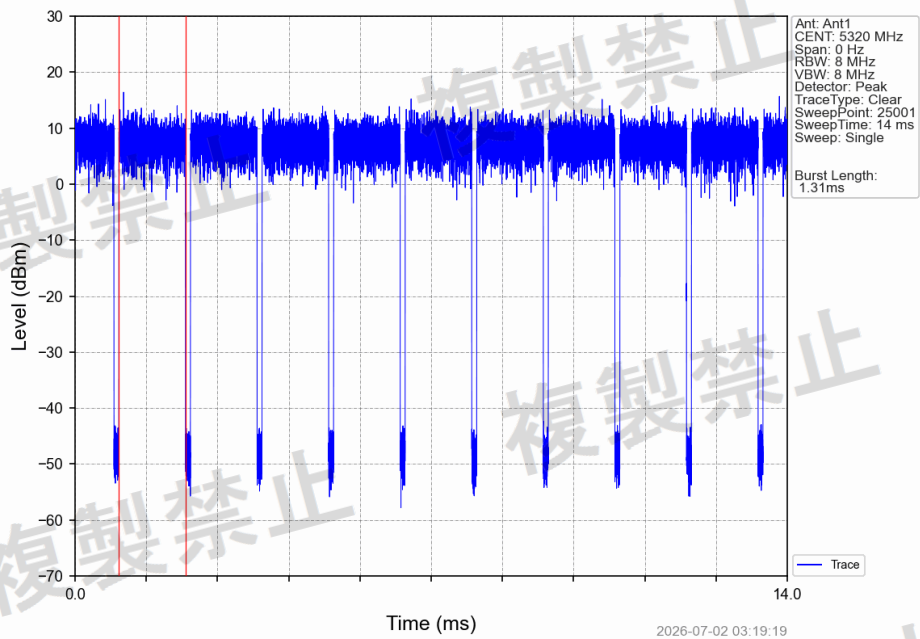


802.11n(HT20)_MCH_5300MHz_Ant1_NTNV

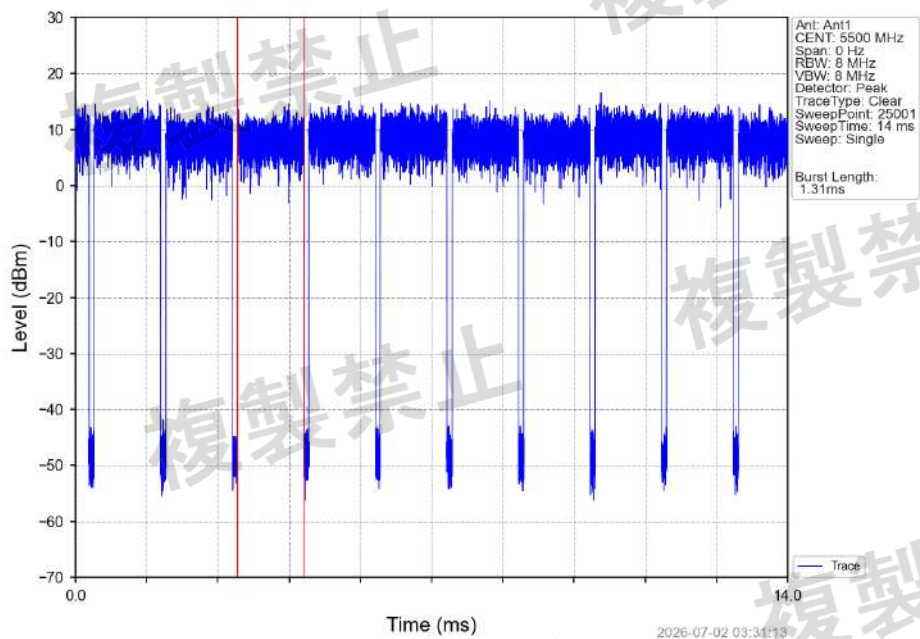




802.11n(HT20)_HCH_5320MHz_Ant1_NTNV

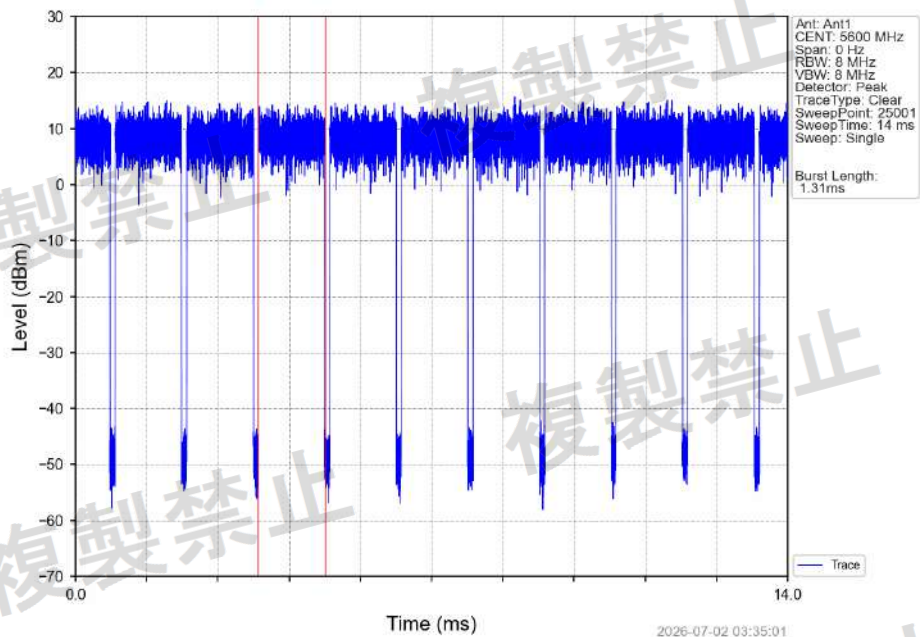


802.11n(HT20)_LCH_5500MHz_Ant1_NTNV

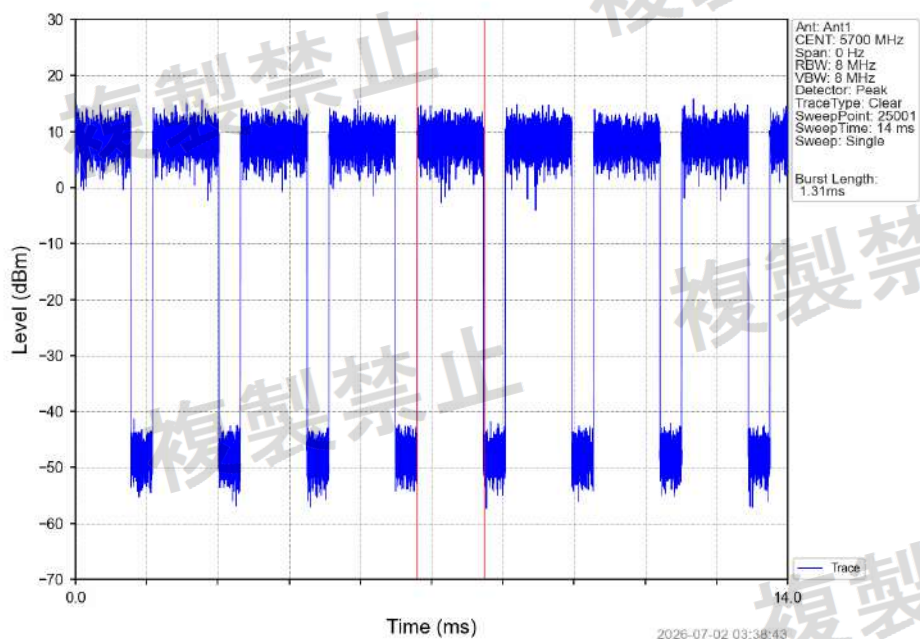




802.11n(HT20)_MCH_5600MHz_Ant1_NTNV

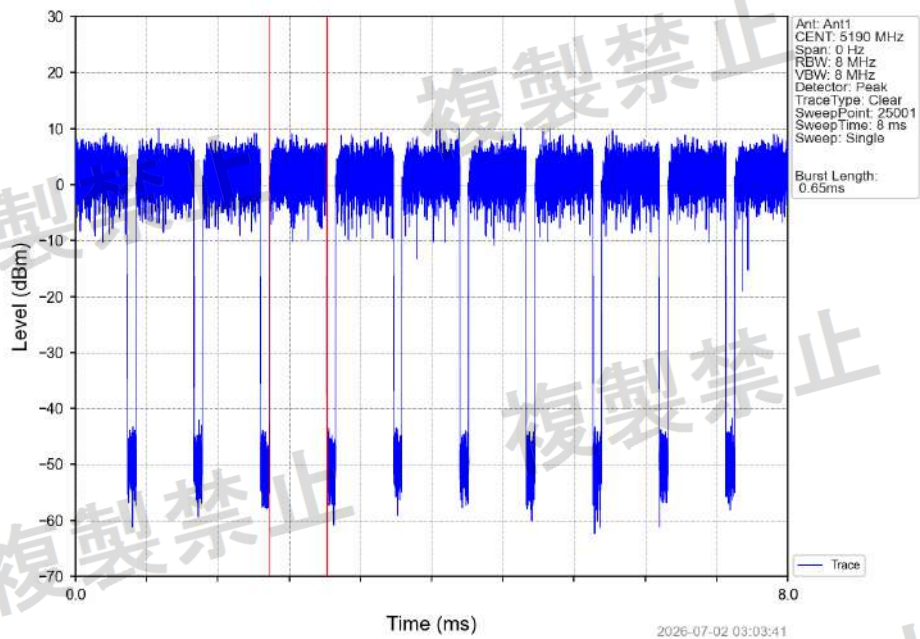


802.11n(HT20)_HCH_5700MHz_Ant1_NTNV

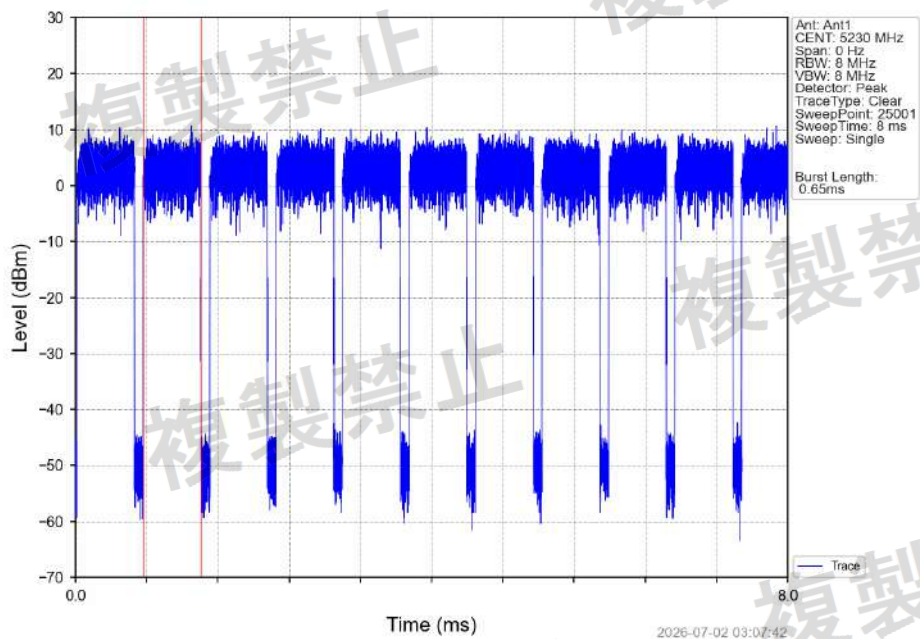




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

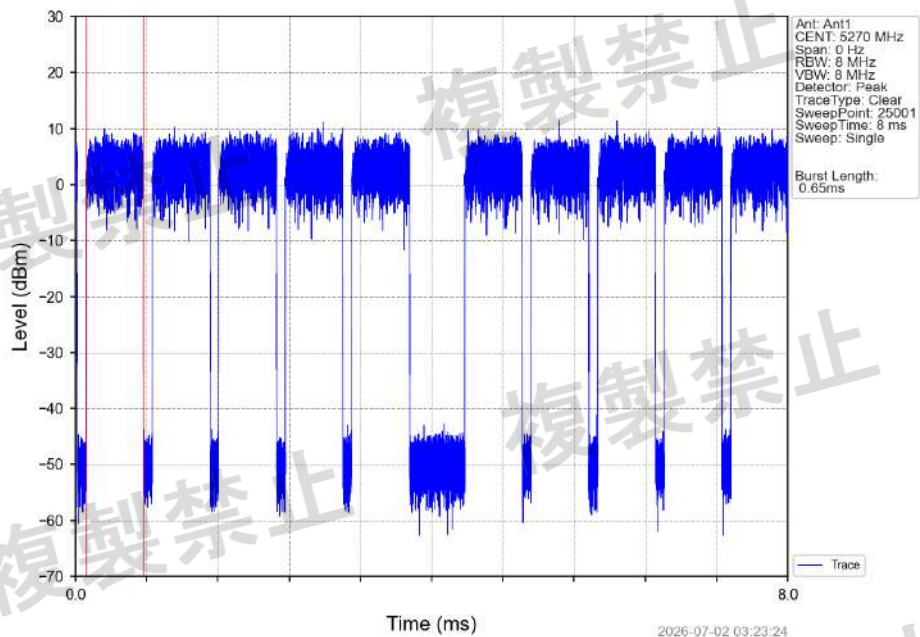


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

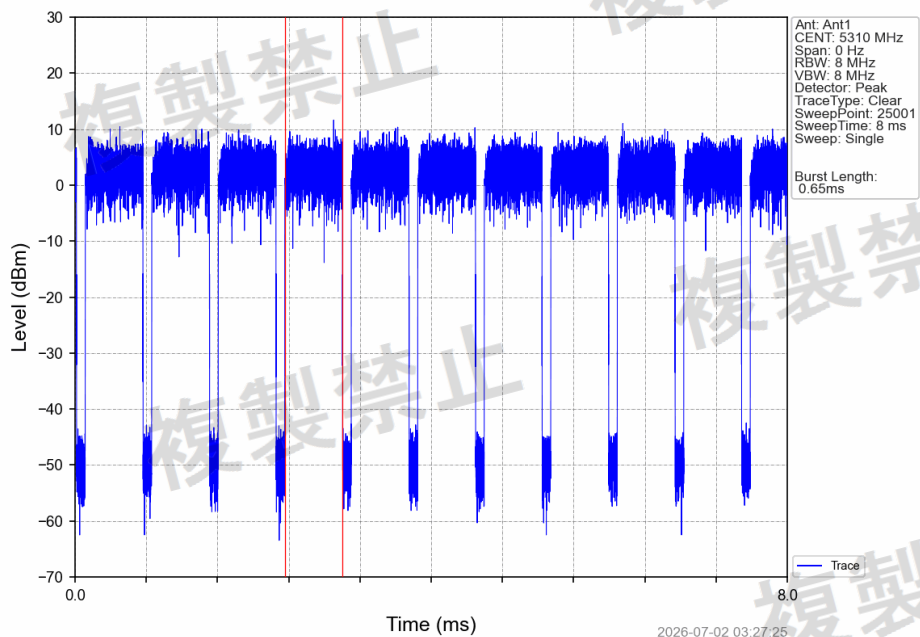




802.11n(HT40)_LCH_5270MHz_Ant1_NTNV

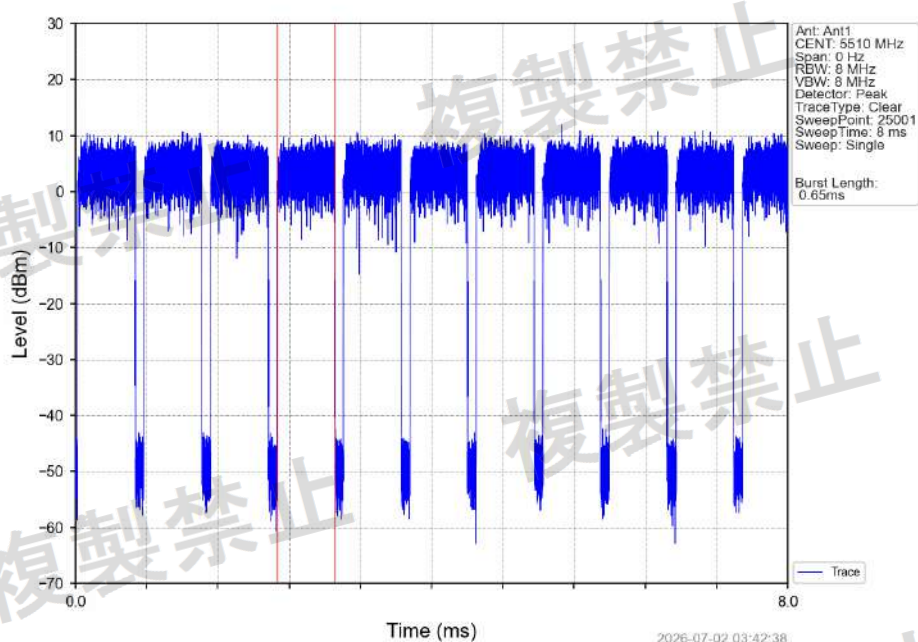


802.11n(HT40)_HCH_5310MHz_Ant1_NTNV

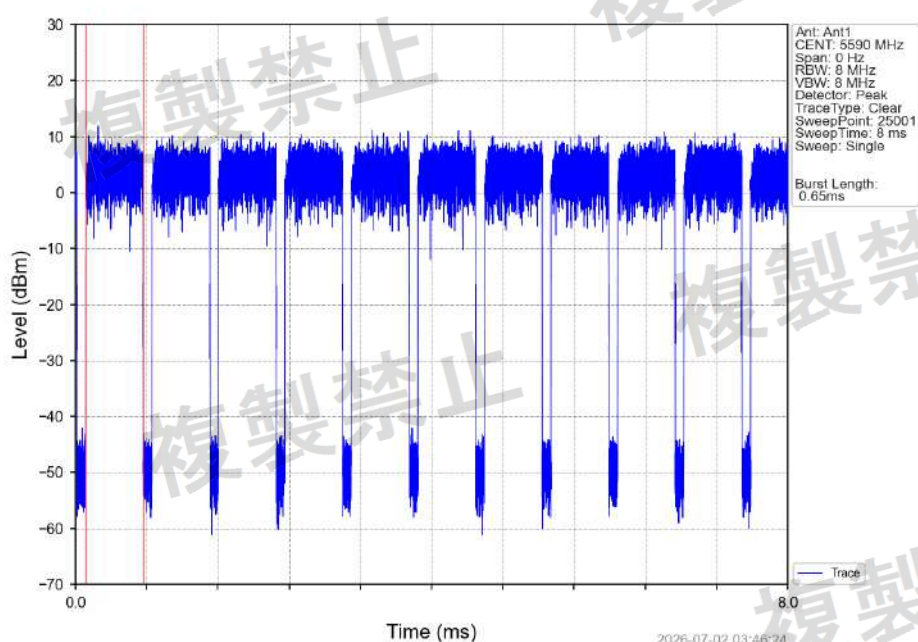




802.11n(HT40)_LCH_5510MHz_Ant1_NTNV

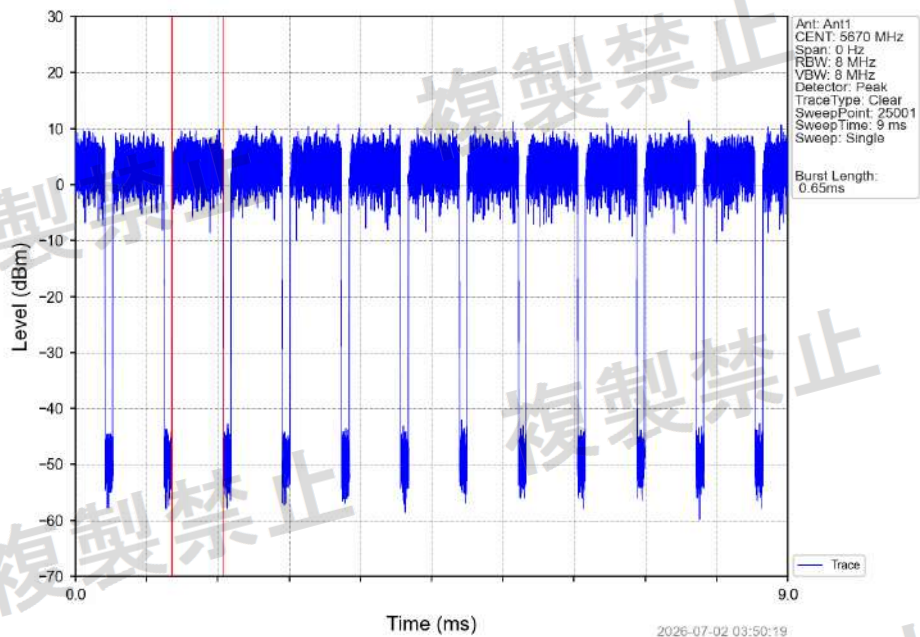


802.11n(HT40)_MCH_5590MHz_Ant1_NTNV

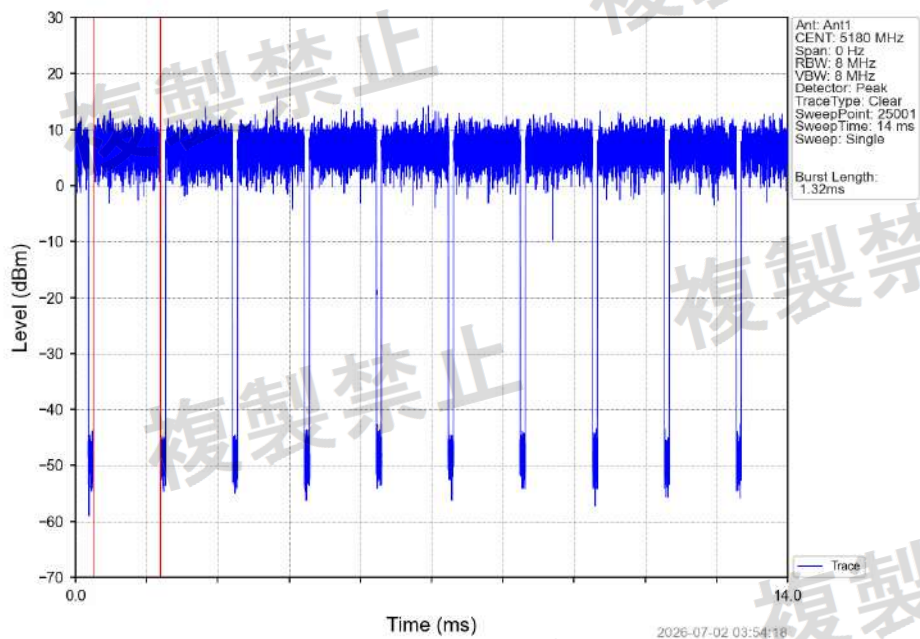




802.11n(HT40)_HCH_5670MHz_Ant1_NTNV

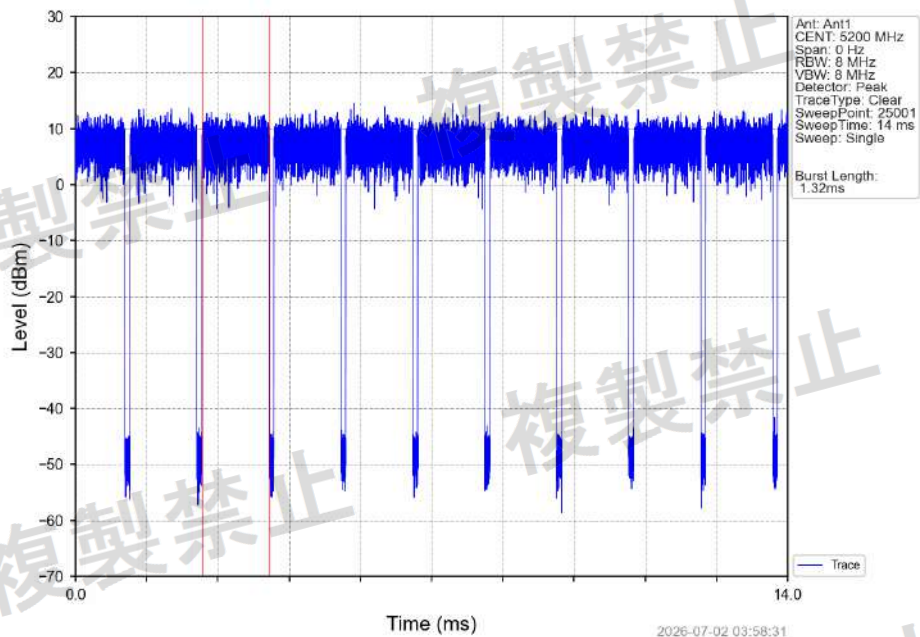


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

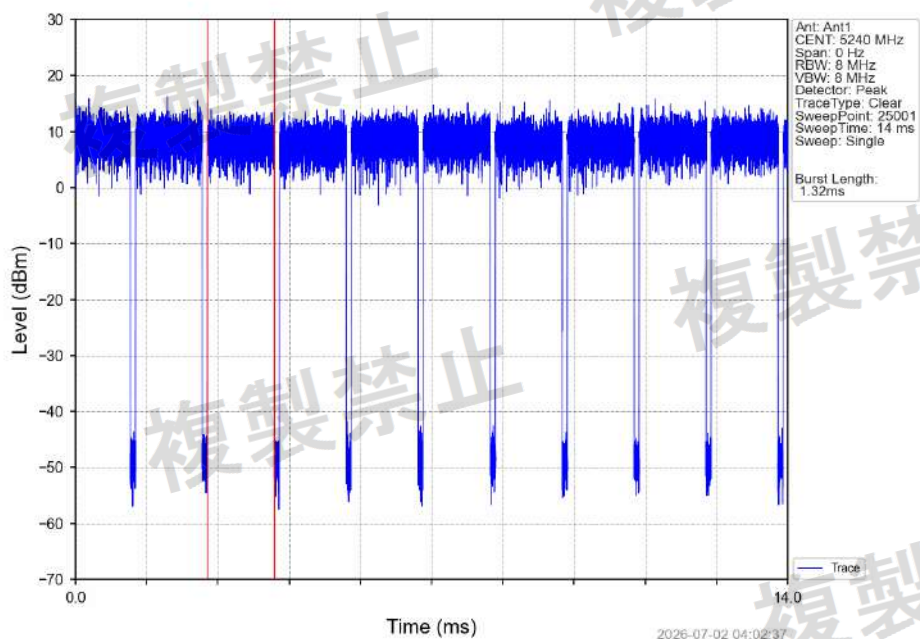




802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

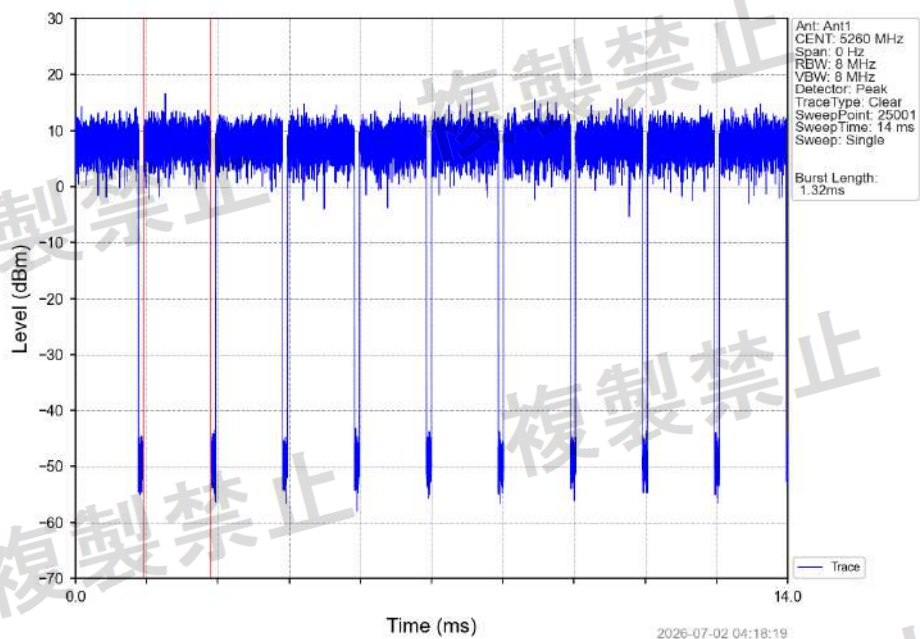


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

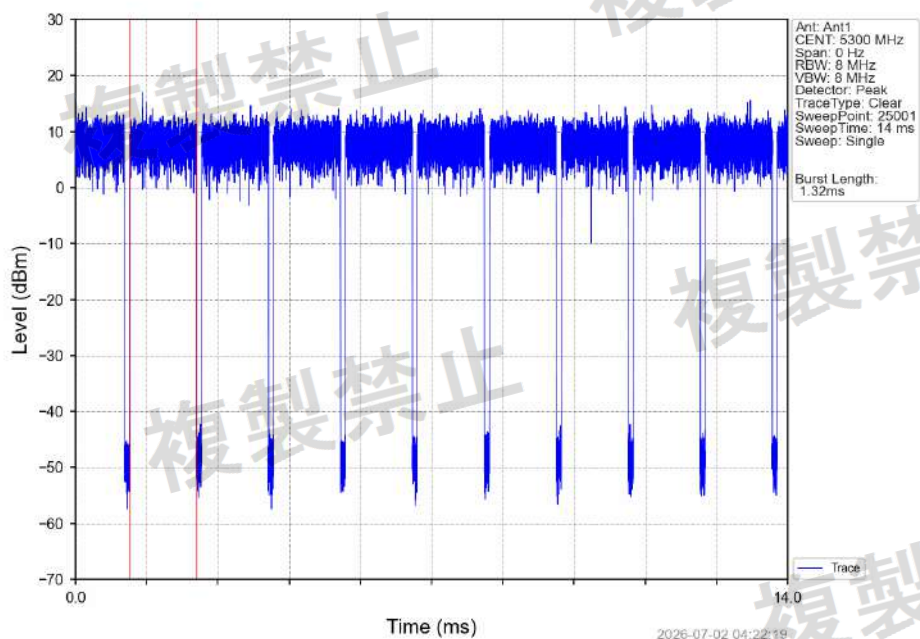




802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV

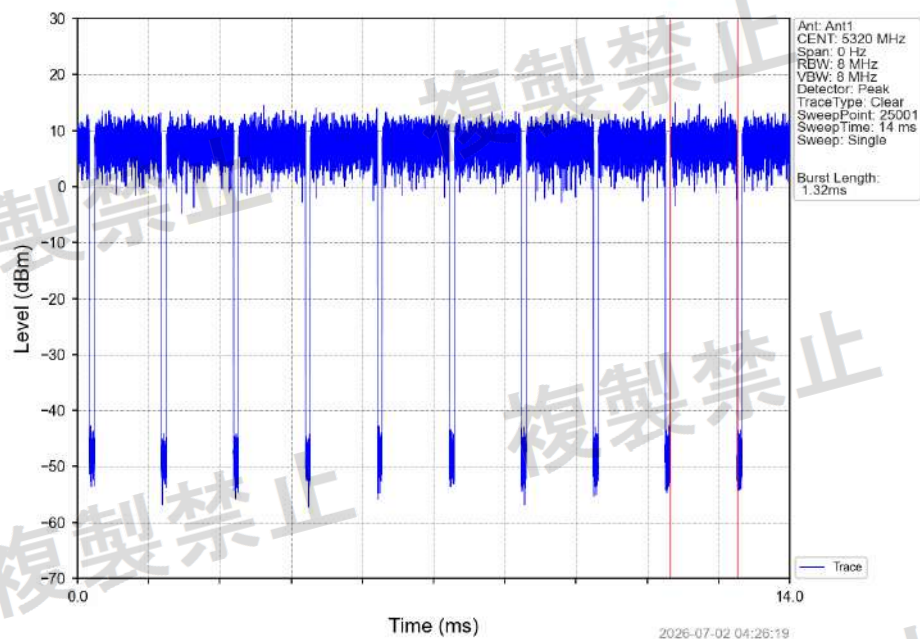


802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV

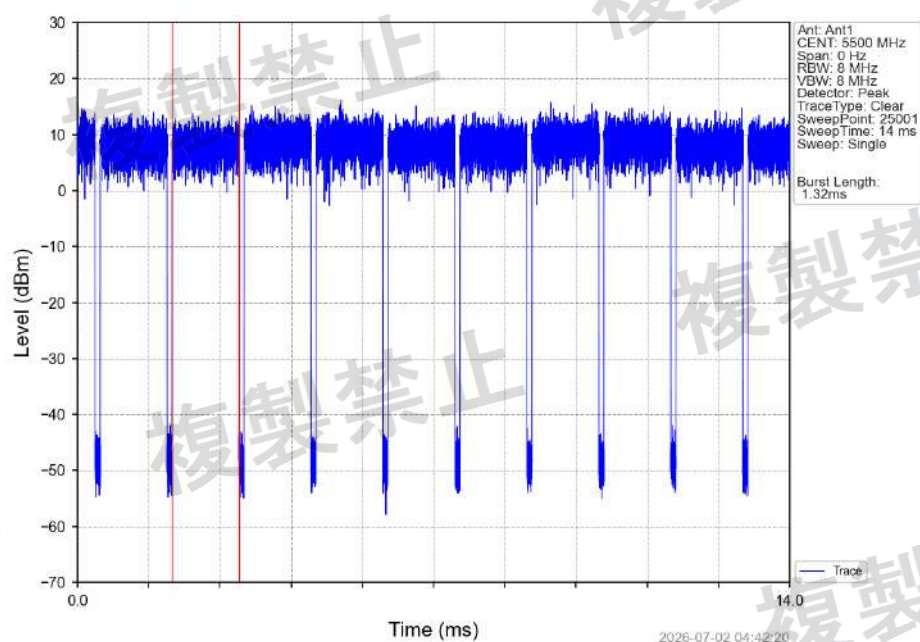




802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV

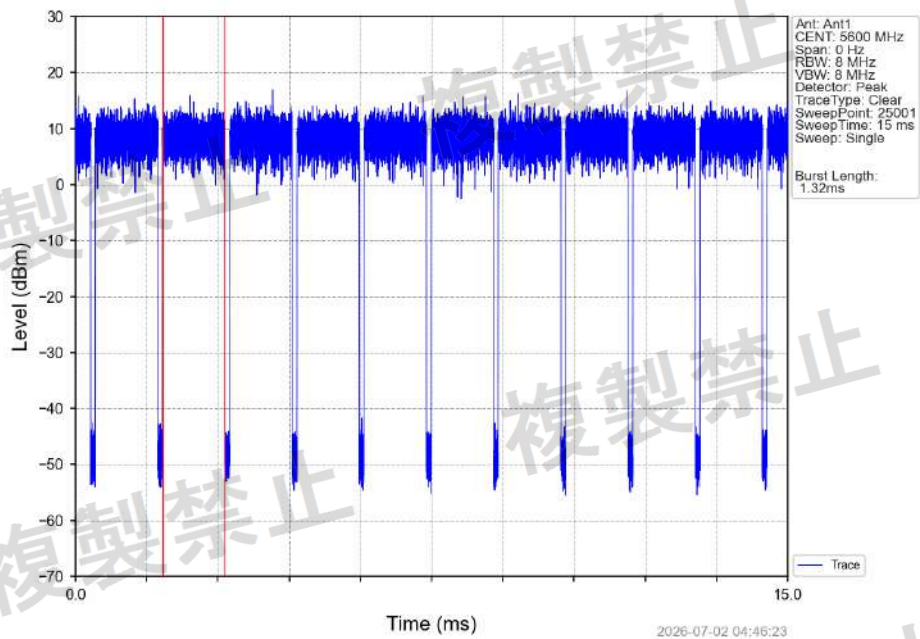


802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV

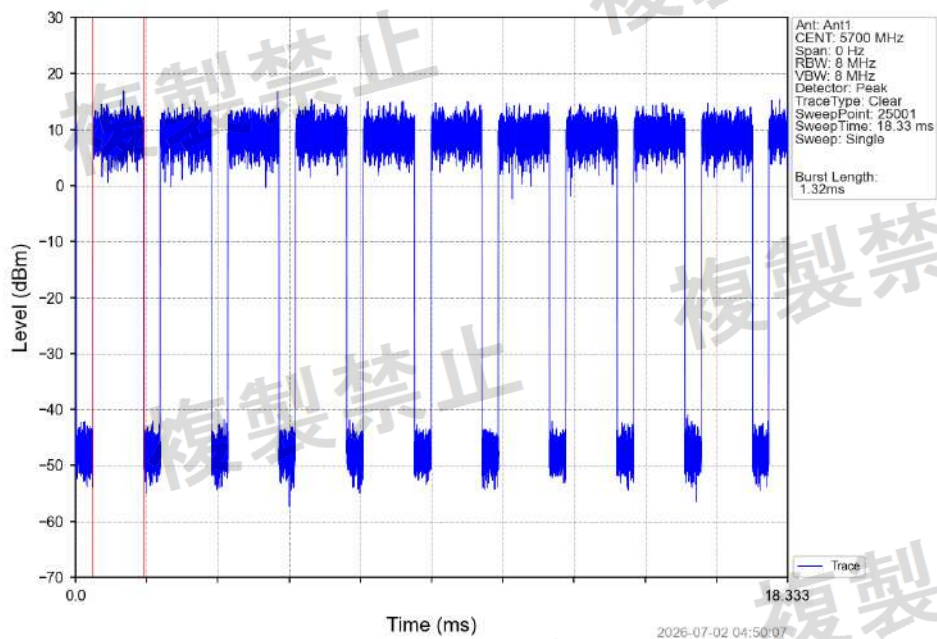




802.11ac(VHT20)_MCH_5600MHz_Ant1_NTNV

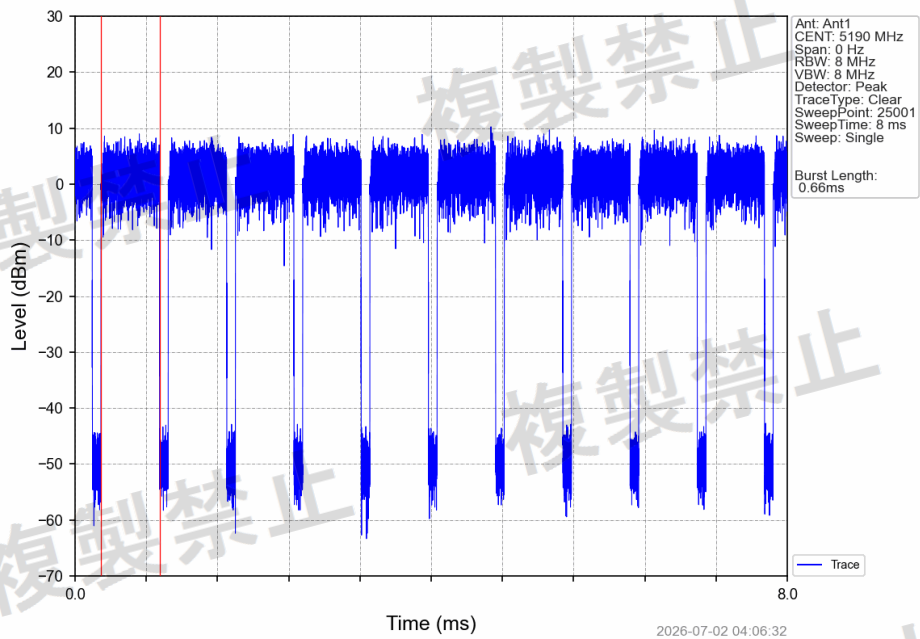


802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV

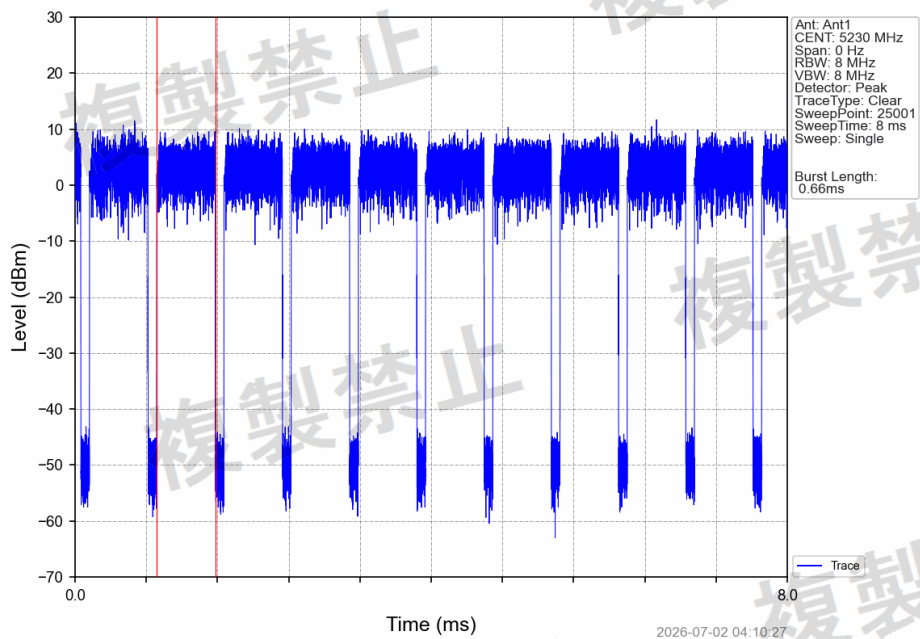




802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

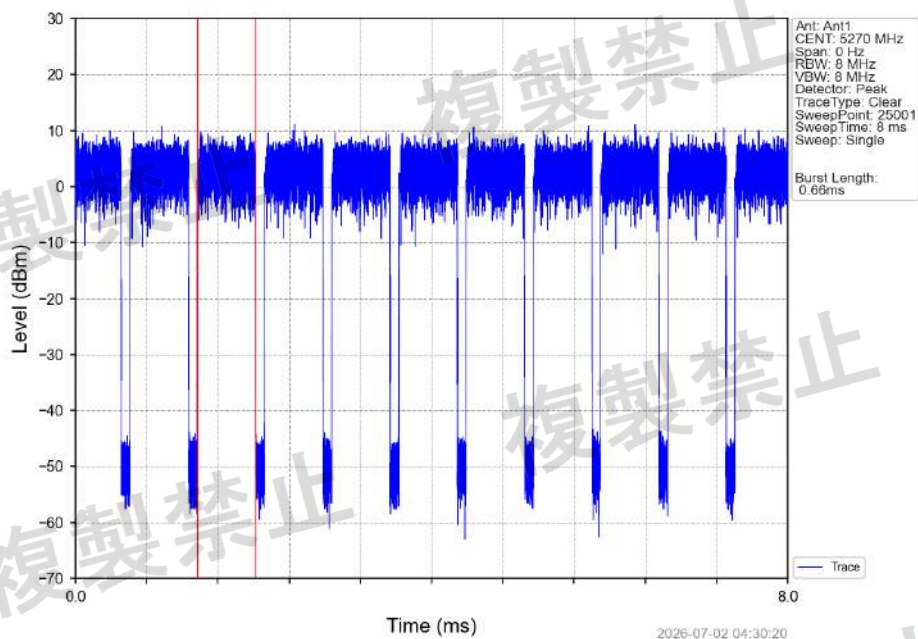


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

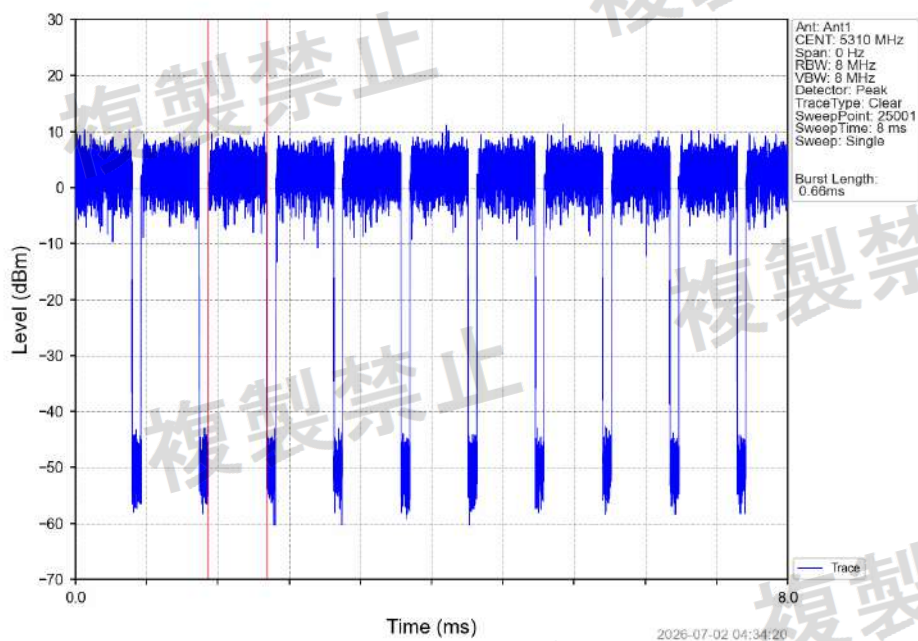




802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV

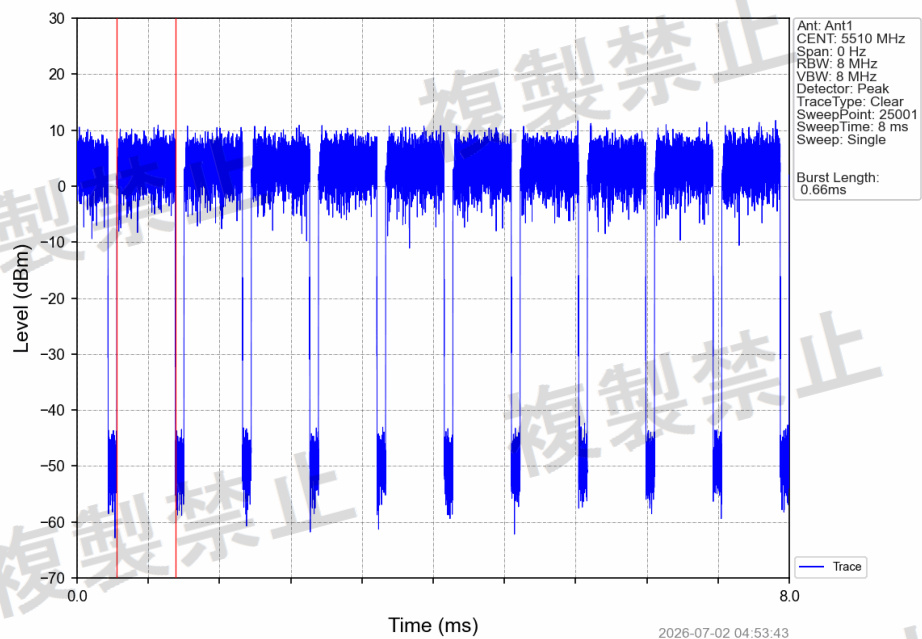


802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV

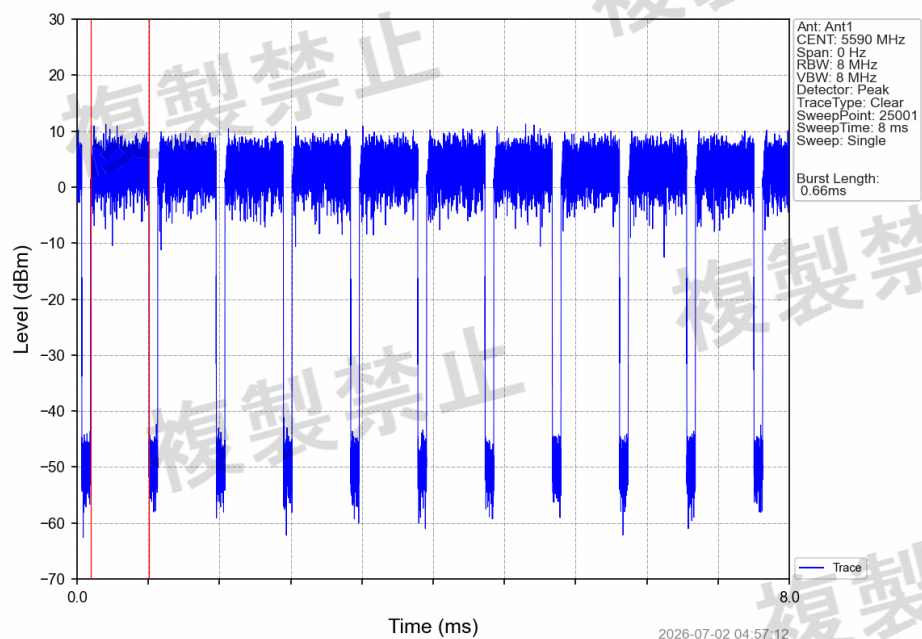




802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV

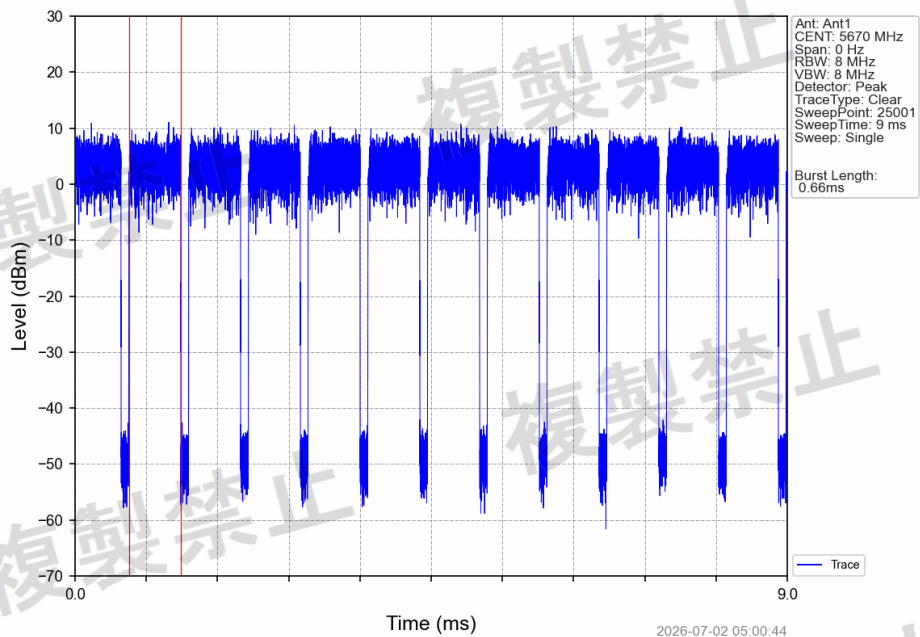


802.11ac(VHT40)_MCH_5590MHz_Ant1_NTNV

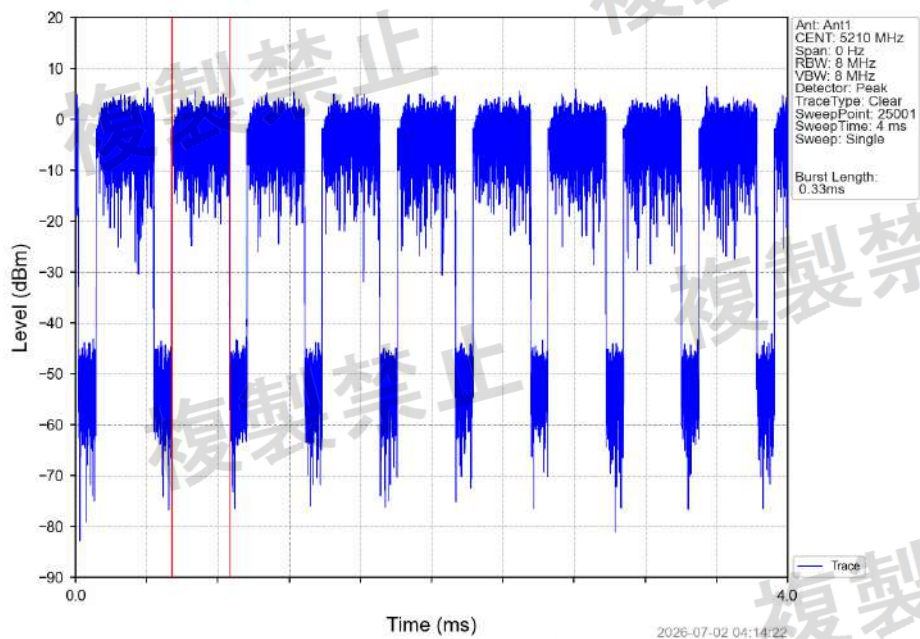




802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV

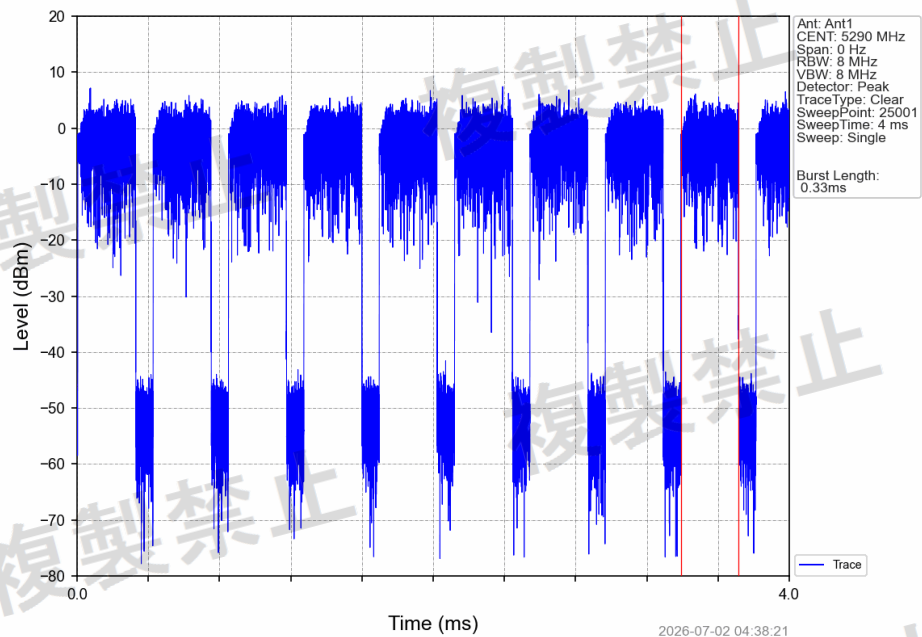


802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

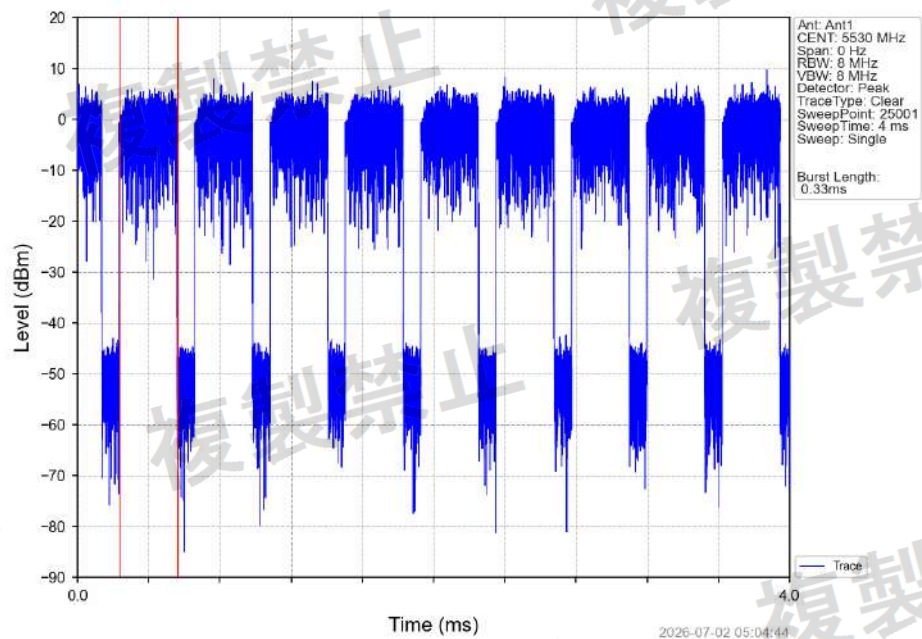




802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

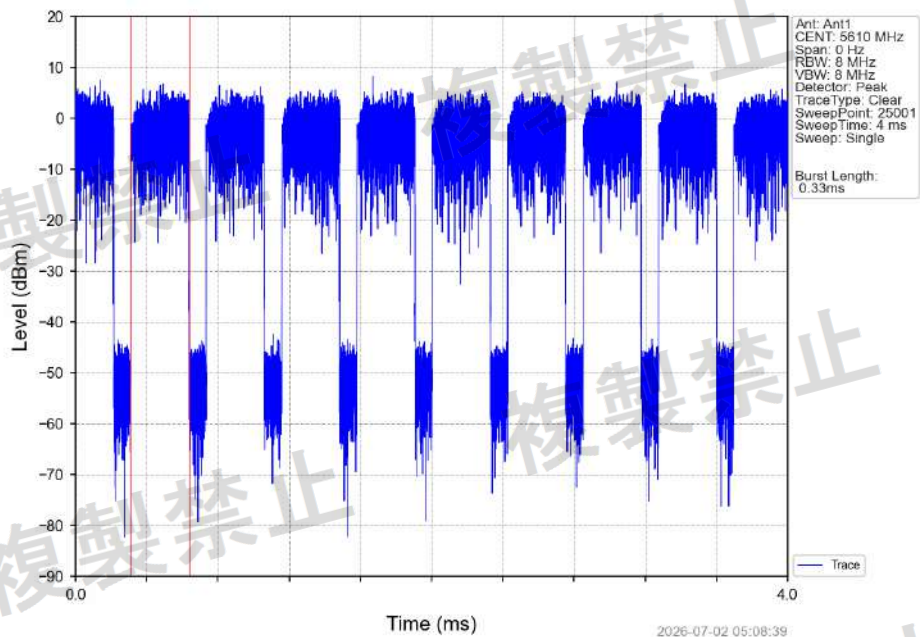


802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV

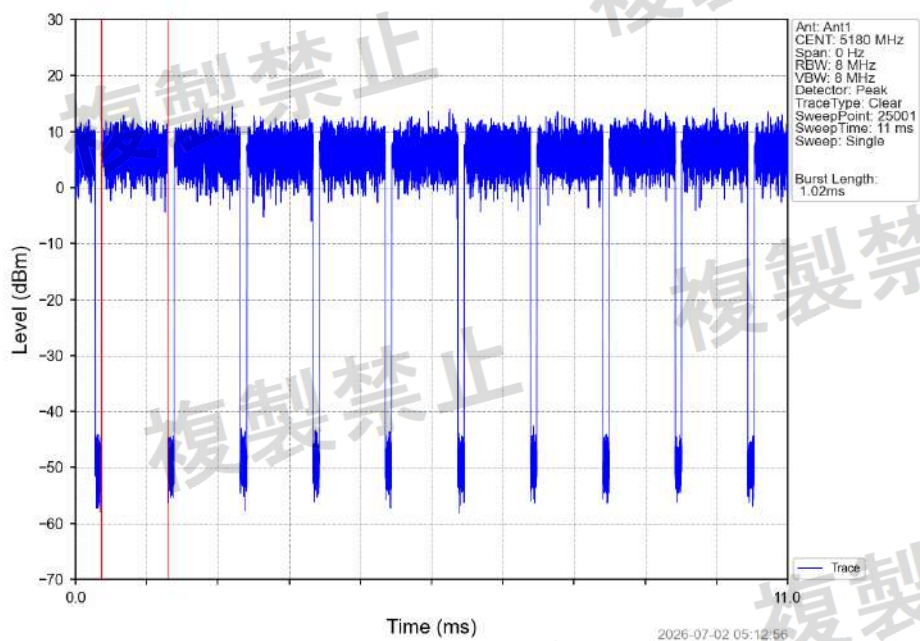




802.11ac(VHT80) HCH 5610MHz Ant1 NTN

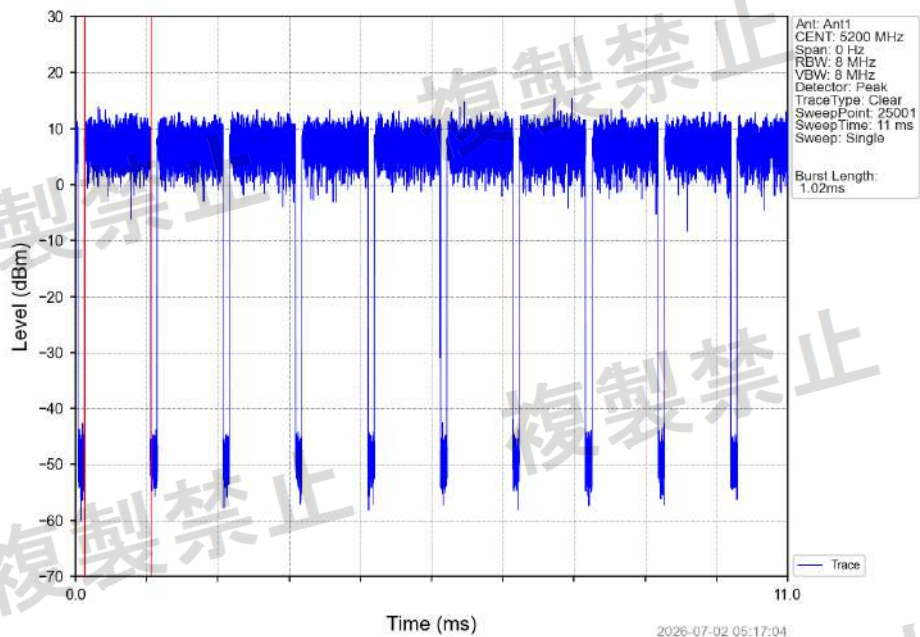


802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTN

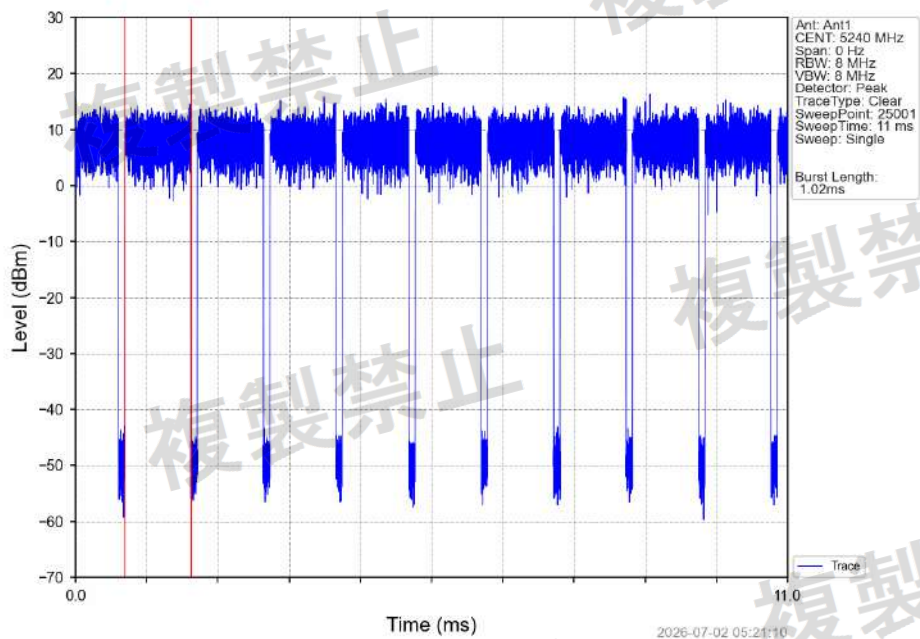




802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTN

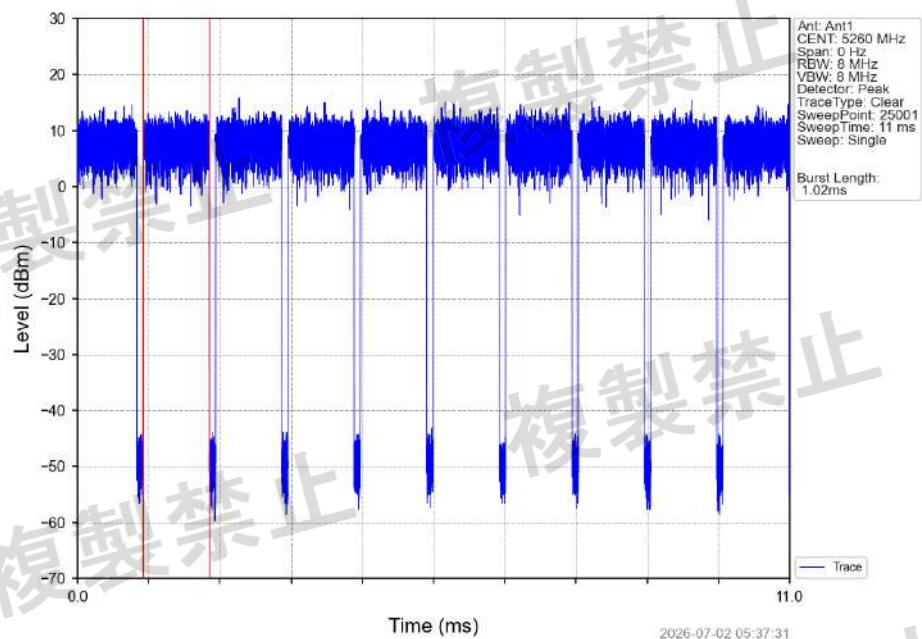


802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN

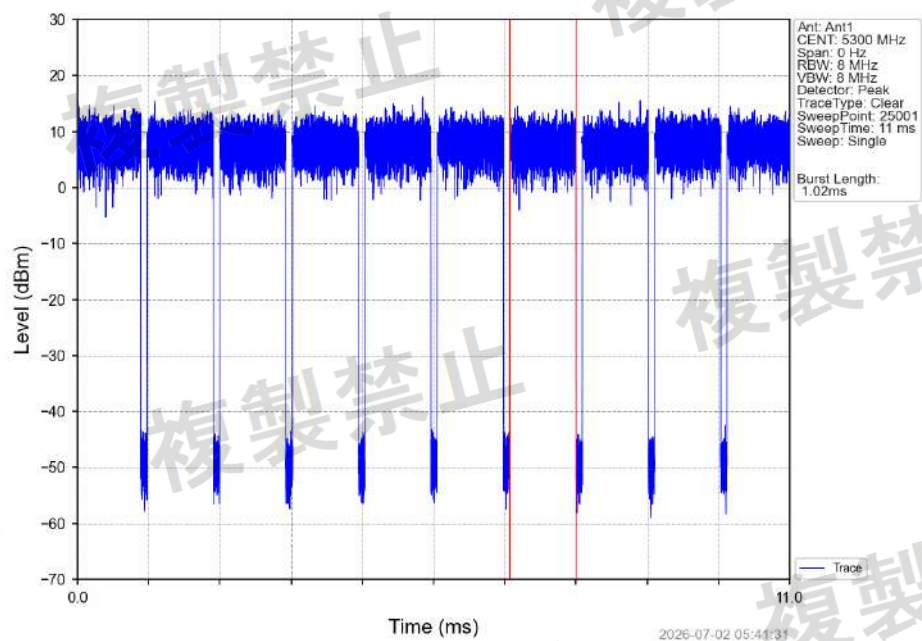




802.11ax(HEW20) LCH 5260MHz SU / Ant1 NTN

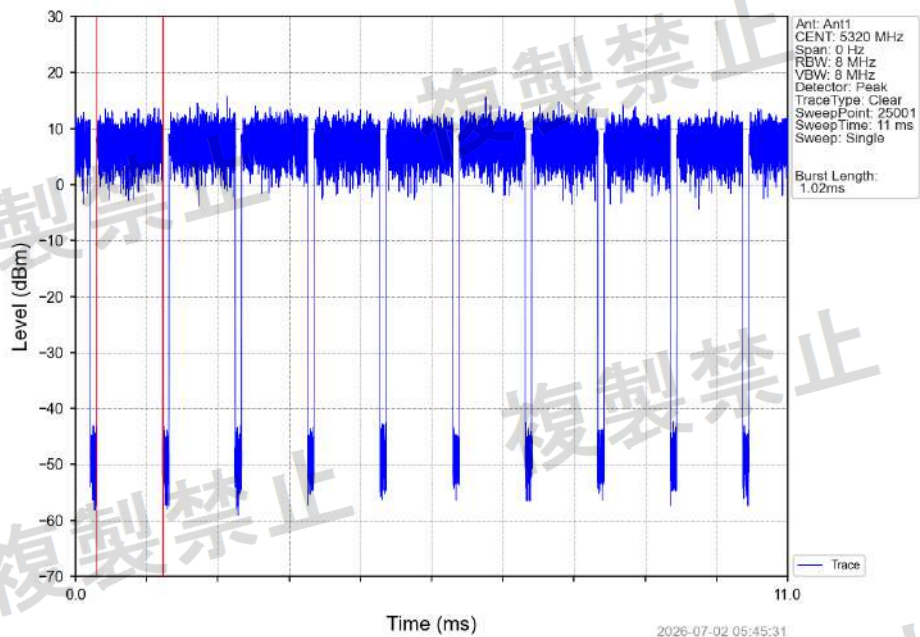


802.11ax(HEW20) MCH 5300MHz SU / Ant1 NTN

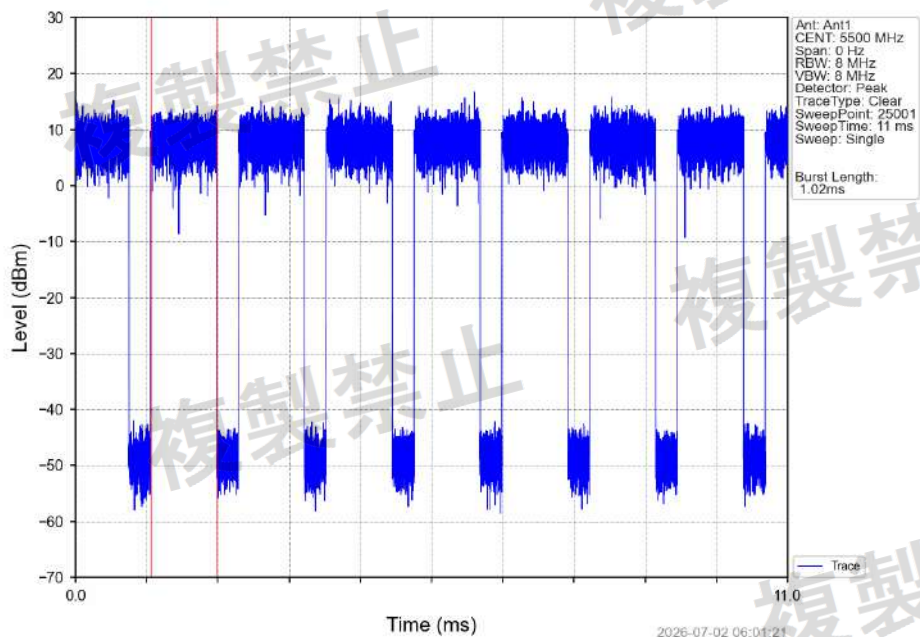




802.11ax(HEW20) HCH 5320MHz SU / Ant1 NTN

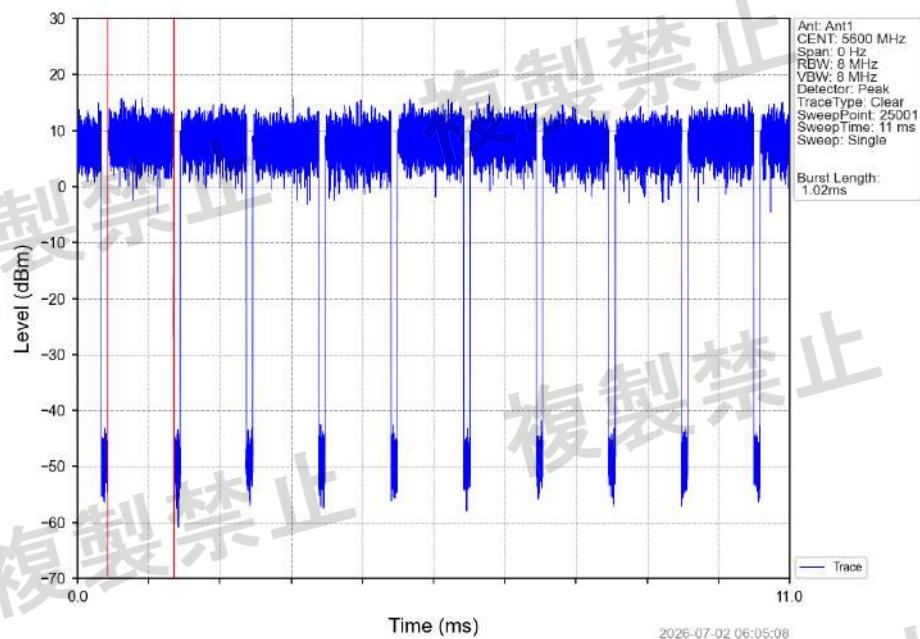


802.11ax(HEW20) LCH 5500MHz SU / Ant1 NTN

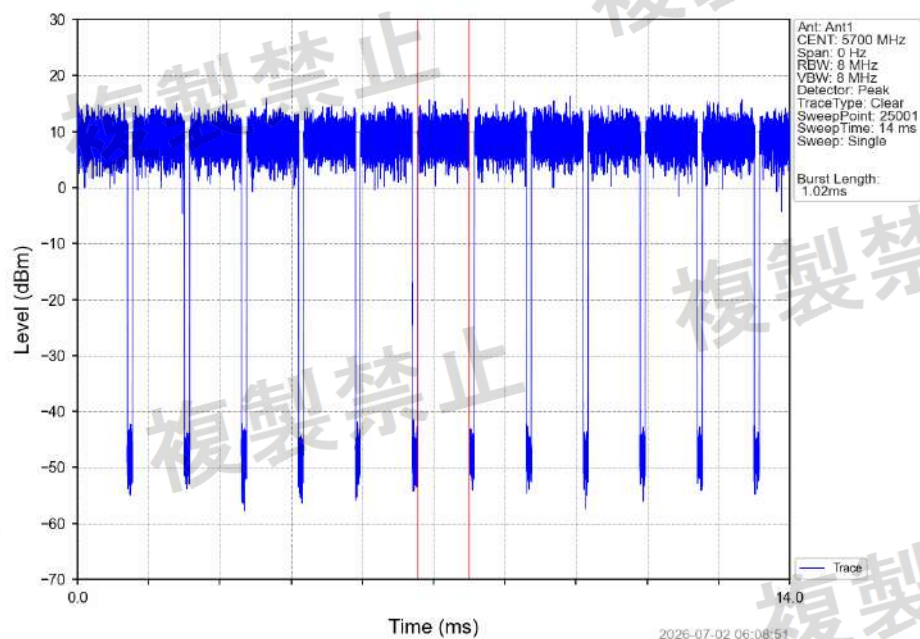




802.11ax(HEW20) MCH 5600MHz SU / Ant1 NTN

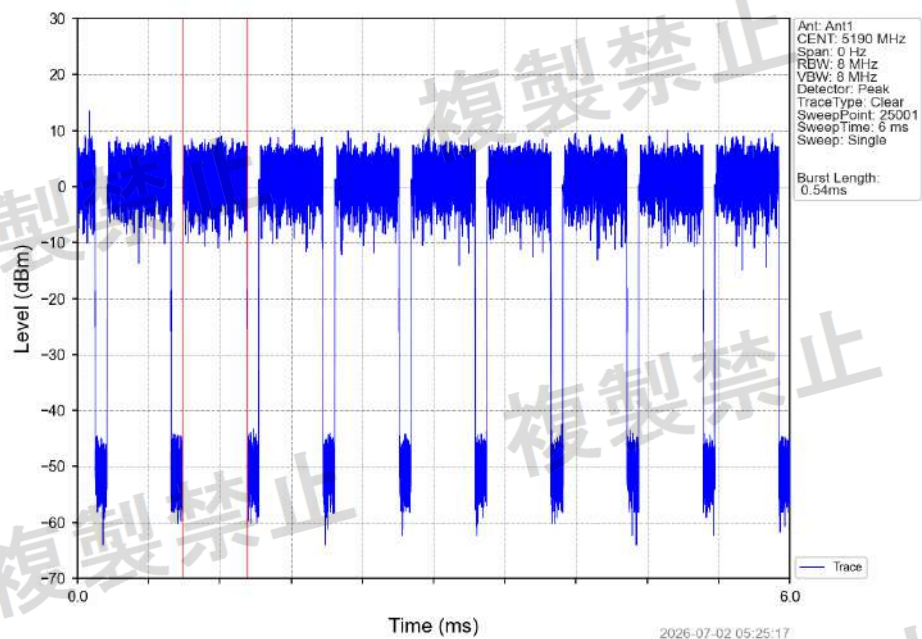


802.11ax(HEW20) HCH 5700MHz SU / Ant1 NTN

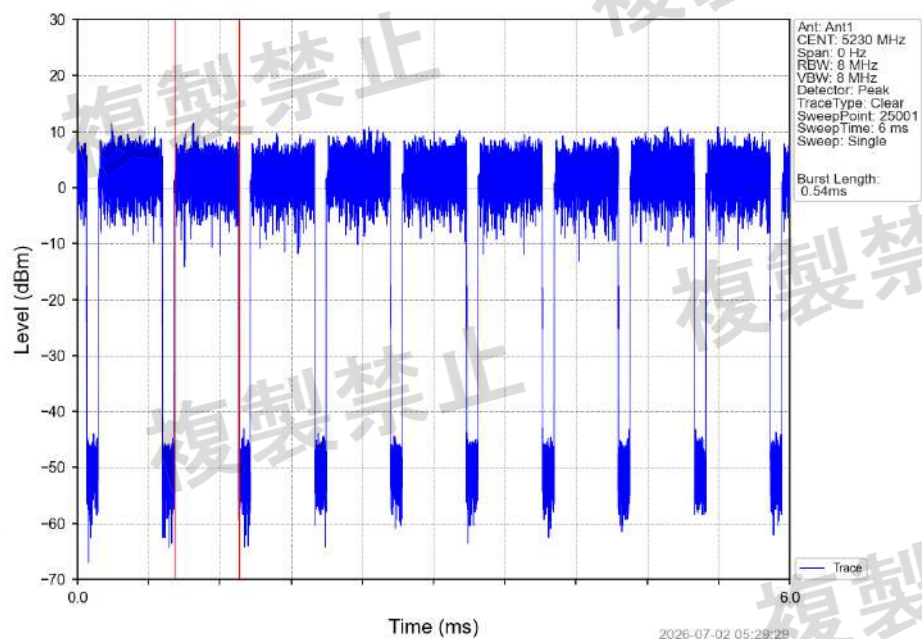




802.11ax(HEW40) LCH 5190MHz SU / Ant1 NTN

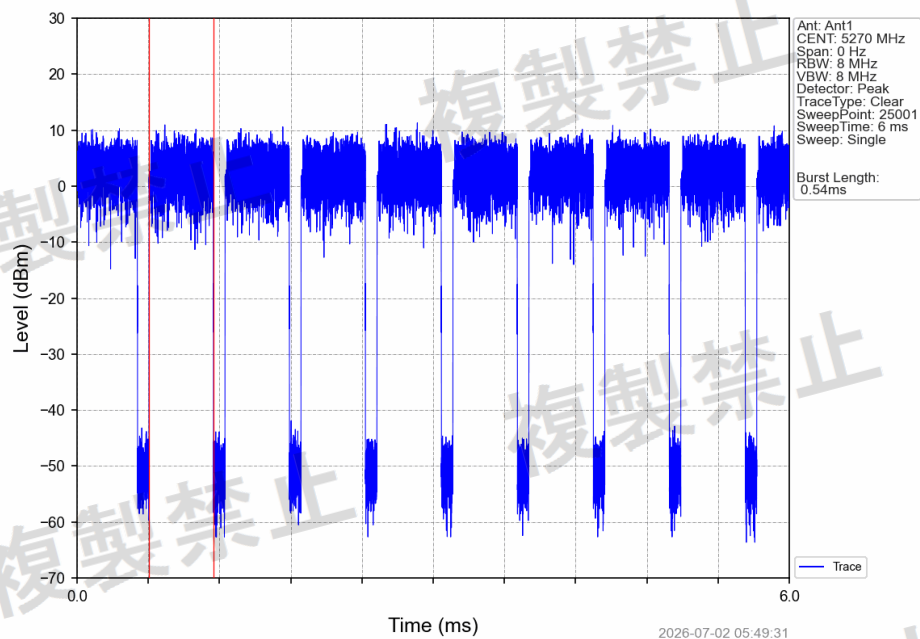


802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTN

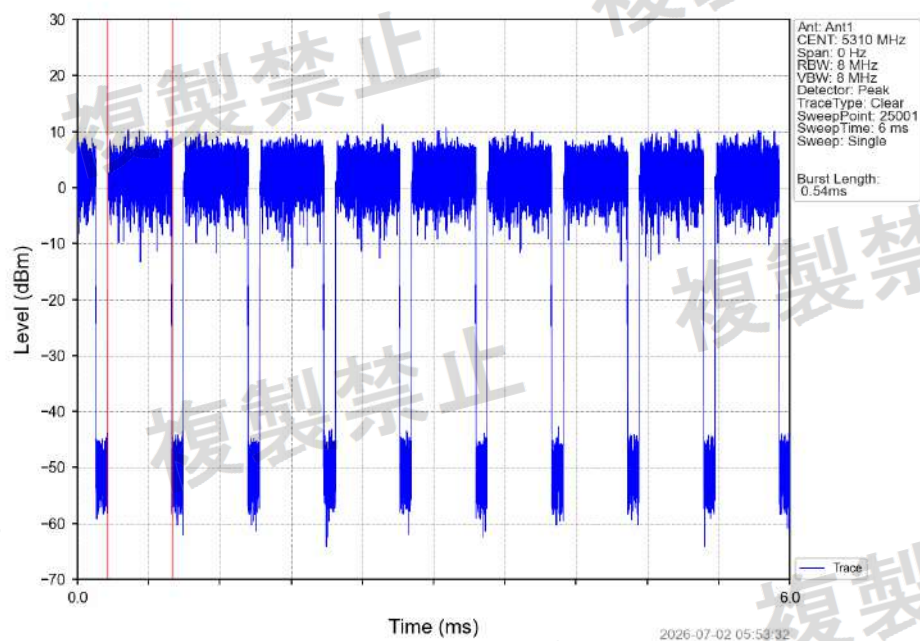




802.11ax(HEW40) LCH 5270MHz SU / Ant1 NTNV

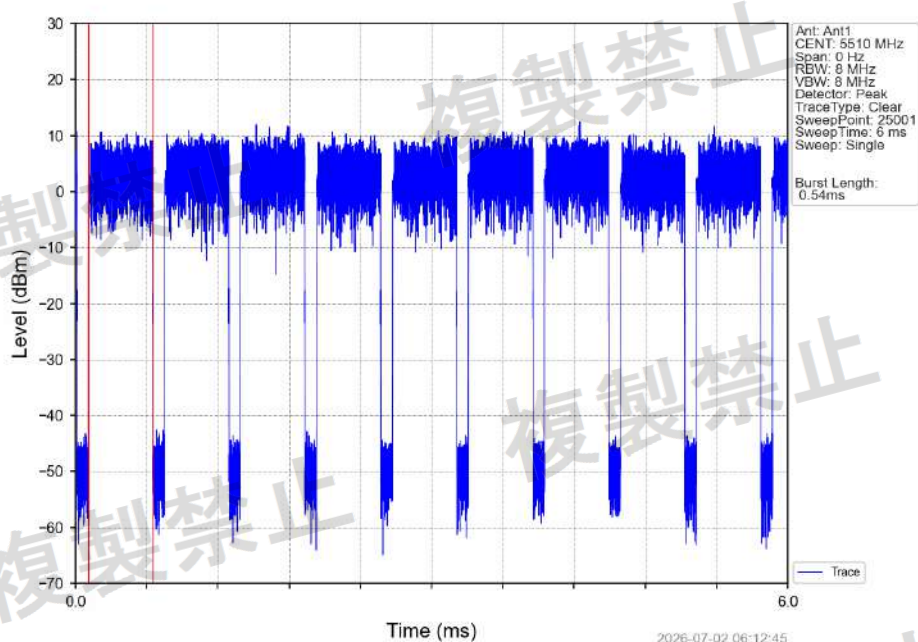


802.11ax(HEW40) HCH 5310MHz SU / Ant1 NTNV

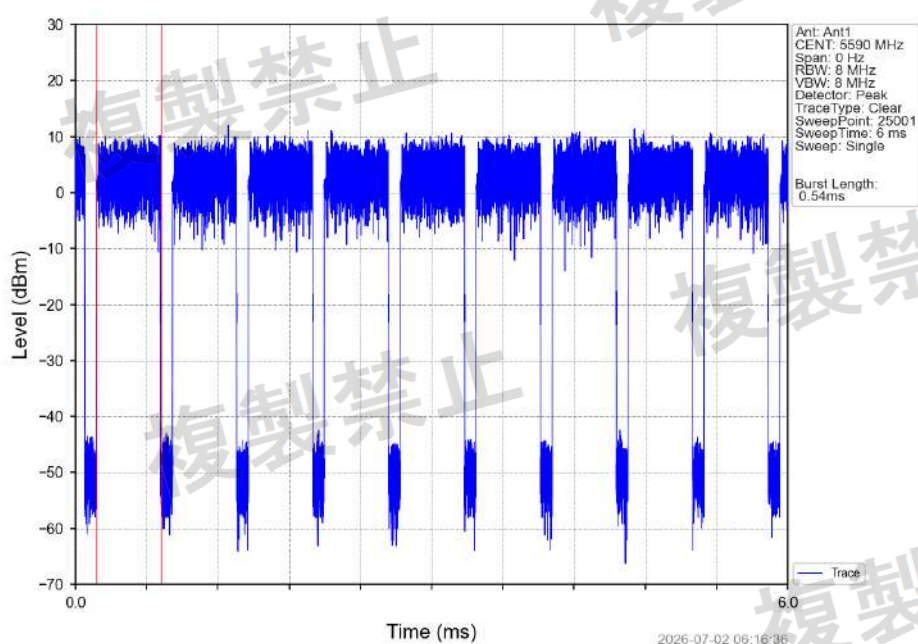




802.11ax(HEW40) LCH 5510MHz SU / Ant1 NTN

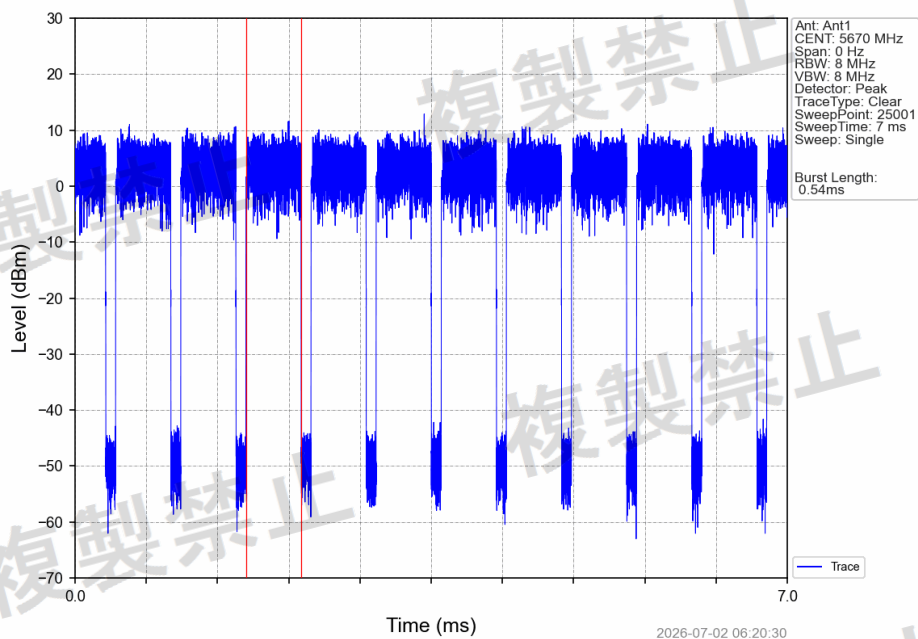


802.11ax(HEW40) MCH 5590MHz SU / Ant1 NTN

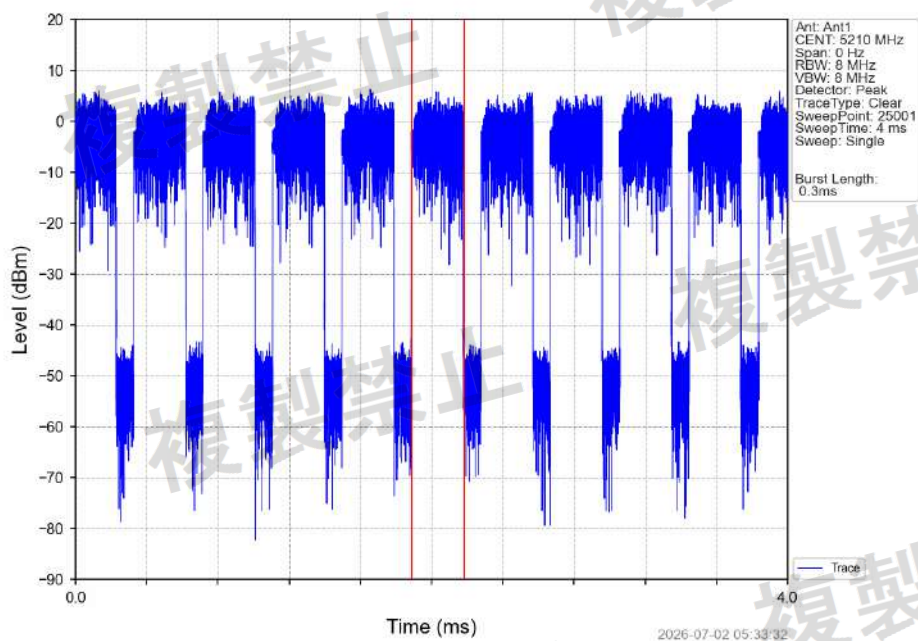




802.11ax(HEW40) HCH 5670MHz SU / Ant1 NTN

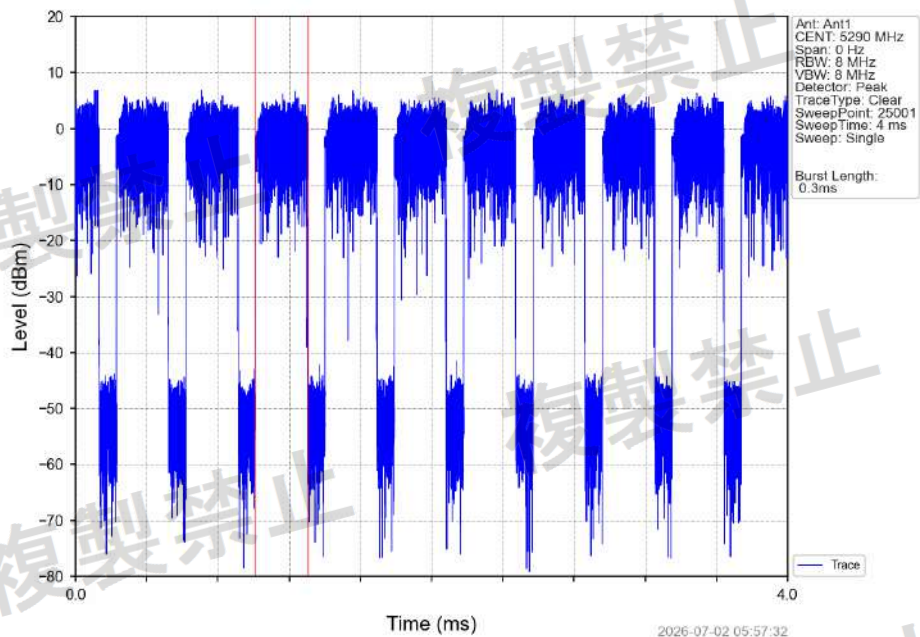


802.11ax(HEW80) MCH 5210MHz SU / Ant1 NTN

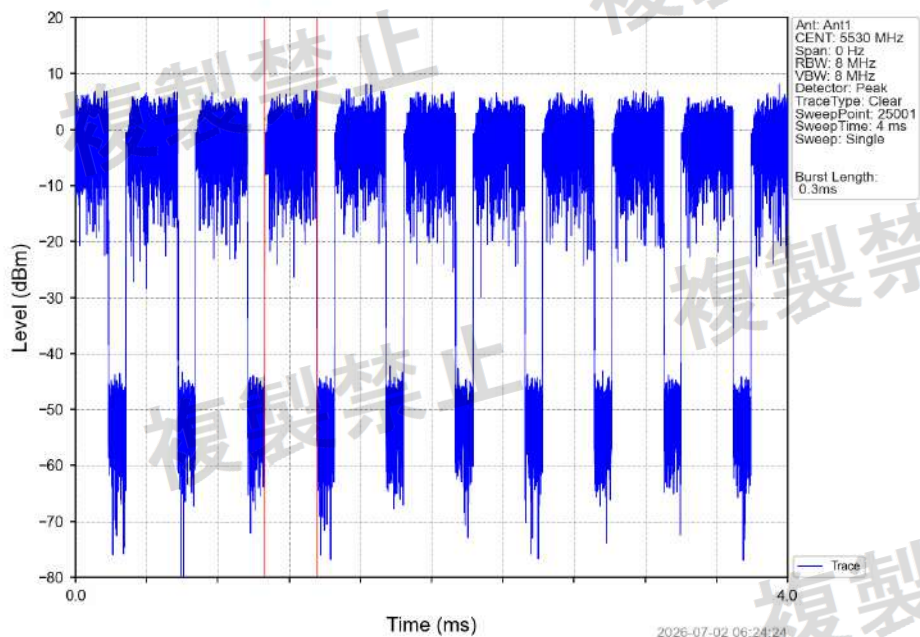


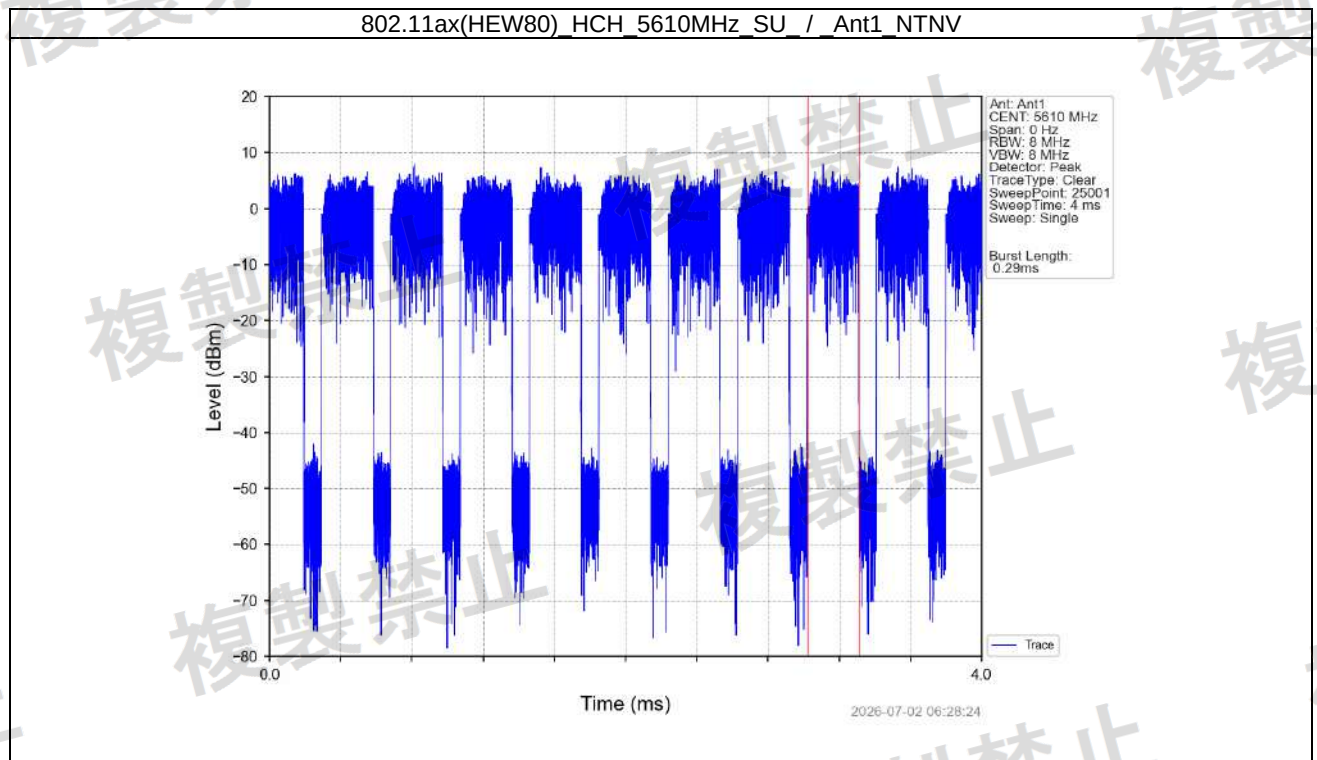


802.11ax(HEW80) MCH 5290MHz SU / Ant1 NTN



802.11ax(HEW80) LCH 5530MHz SU / Ant1 NTN





3.9 Carrier Sense Capability

LIMIT

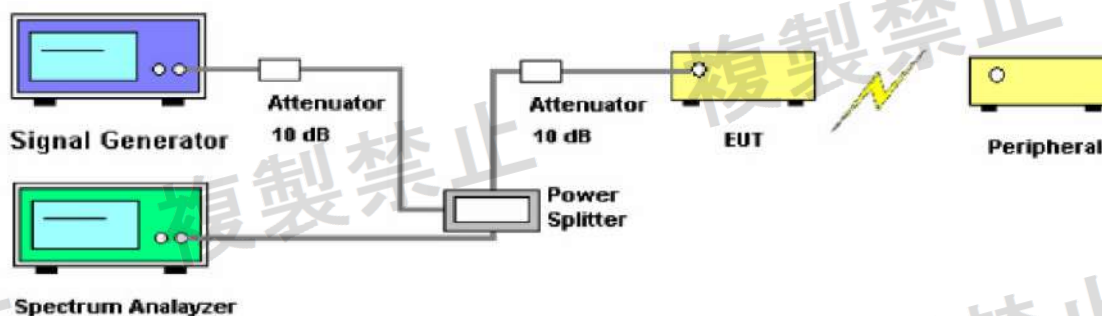
Item	Limits
Carrier Sense	Good - EUT stop RF transmission signal after carrier inject to EUT. (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz) or 100mV/m)

INSTRUMENTS SETTING

The following table is the setting of spectrum analyser and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Span	0 MHz
Sweep	Continuous
Detector	Peak
Trigger mode	Video

TEST CONFIGURATION



TEST PROCEDURE

- Set The EUT state in "normal mode link with wireless router".
- SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on $22.79 + G - 20 \cdot \log(f)$ dBm) (G is the antenna gain is the test frequency).
- Turn off the RF signal of the SG.
- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting the spectrum as follow :
RBW/VBW=1MHz/1MHz
Span=50MHz
Sweep time=auto
Sweep mode=continuous
Detect mode=positive peak
- SG RF signal on.
- EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

TEST RESULTS

Remark: we test all modes, only worst cases were reported as below:

W56

Test mode	Test frequency (MHz)	Interference signal level (dBm)	Test result
IEEE 802.11ax(HEW20)	5700	-57.14	Good
IEEE 802.11ax(HEW40)	5590	-60.39	Good



3.10 Construction protection method

REQUIREMENT

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

CONFIRMATION METHOD

All high-frequency section and modulation section was packaged in one IC, it can not be easily open.

3.11 Interference Prevention Function

REQUIREMENT

Clarify the one automatically to transmit and to receive identification code with the wireless equipment of the wireless station used in the same premises.

Item	Limits
Identification code	≥ 48 bits

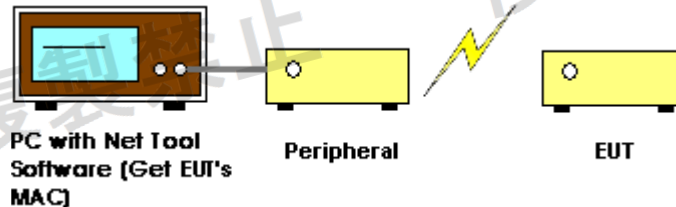
CONFIRMATION METHOD

A communication link was made where the ID code is correct (Identical).

TEST PROCEDURE

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the other signals than predetermined ID codes from the counterpart. d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

TEST CONFIGURATION



TEST RESULTS

PASS

MAC Address: E1: B2: 3C: 2A: D1: 5C



3.12 Dynamic Frequency Selection

Requirements

the following are the requirements for Client Devices:

- 1) A Client Device will not transmit before having received appropriate control signals from a Master Device.
- 2) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.
- 3) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1(KDB905462 D02 v02) apply.
- 4) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

Limit

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an Aggregate of 60 milliseconds over Remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100 % of the U-NII 99 % transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

**DFS detection threshold values**

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

Maximum Transmit Power	Value (See Notes 1 and 2)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and Power spectral $<$ 10 dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Calibration:

The EUT is slave equipment with a max gain is 2.70dBi;

For a detection threshold level of -62dBm and the master (Brand: Sanmsung), Model: S2LF812265, FCC ID: A3LWEA453E) antenna gain is 3.0 dBi, required detetion threshold is -59.00 dBm ($= -62+3.0$)

Maximum transmit power is less than 200 milliwatt in this report, so detection threshold level is -62dBm.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note 3: EIRP is based on the highest antenna. For MIMO devices refer to KDB Publication 662911 D01.

DFS test signals

As the EUT is a Client Device with no Radar Detection only one type radar pulse is required for the testing. Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 7 – Frequency Hopping Radar Test Waveform



Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Manufacturer's Statement Regarding Uniform Channel Spreading

The end product implements an automatic channel selection feature at startup such that operation commences on channels distributed across the entire set of allowed 5GHz channels. This feature will ensure uniform spreading is achieved while avoiding non-allowed channels due to prior radar events.

TEST AND MEASUREMENT SYSTEM

System Overview

The measurement system is based on a conducted test method.

The short pulse and long pulse signal generating system utilizes the NTIA software and the same manufacturer / model Vector Signal Generator as the NTIA. The hopping signal generating system utilizes the simulated hopping method.

The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution. The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time. The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List, with the initial starting point randomized at run-time.

The signal monitoring equipment consists of a spectrum analyzer with the capacity to display 8192 bins on the horizontal axis. A time-domain resolution of 2 msec / bin is achievable with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold. A time-domain resolution of 3 msec / bin is achievable with a 24 second sweep time, meeting the 22 second long pulse reporting criteria and allowing a minimum of 10 seconds after the end of the long pulse waveform.

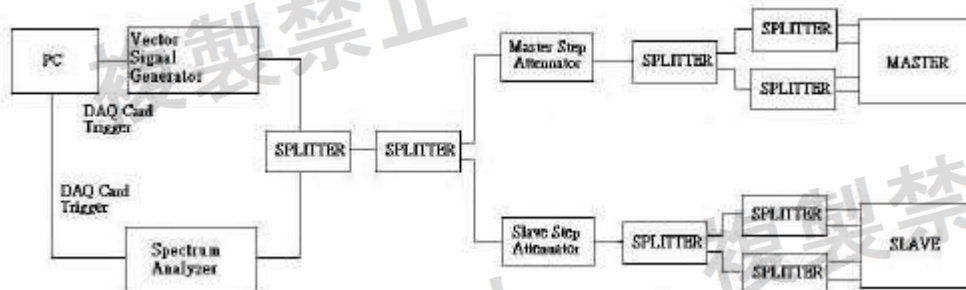
Frequency Hopping Signal Generation

The hopping burst generator is a High Speed Digital I/O card plugged into the control computer. This card utilizes an independent hardware clock reference therefore the output pulse timing is unaffected by host computer operating system latency times.

The software selects the hopping sequence as a 100-length segment of the August 2005 NTIA hopping frequency list. This list contains 274 unique pseudorandom sequences. Each such sequence contains 475 frequencies ordered on a random without replacement basis. Each successive trial uses a contiguous 100- length segment from within each successive 475-length sequence in the list. The initial starting point within the list is randomized at run-time such that the first 100-length segment is entirely contained within the first 475-length sequence. The starting point of each successive trial is incremented by 475.

Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

Conducted Method System Block Diagram



Measurement System Frequency Reference

Lock the signal generator and the spectrum analyzer to the same reference source as follows: Connect the 10 MHz OUT (SWITCHED) on the spectrum analyzer to the 10 MHz IN on the signal generator and set the spectrum analyzer 10 MHz Out to On.

System Calibration

Connect the spectrum analyzer to the test system in place of the master device. Set the signal generator to CW mode. Adjust the amplitude of the signal generator to yield a measured level of -62 dBm on the spectrum analyzer.

Without changing any of the instrument settings, reconnect the spectrum analyzer to the Common port of the Spectrum Analyzer Combiner/Divider and connect a 50 ohm load to the Master Device port of the test system.

Measure the amplitude and calculate the difference from -62 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference. Confirm that the signal is displayed at -62 dBm. Readjust the RBW and VBW to 3 MHz, set the span to 10 MHz, and confirm that the signal is still displayed at -62 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of -62 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level



of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

Interference Detection Threshold Adjustment

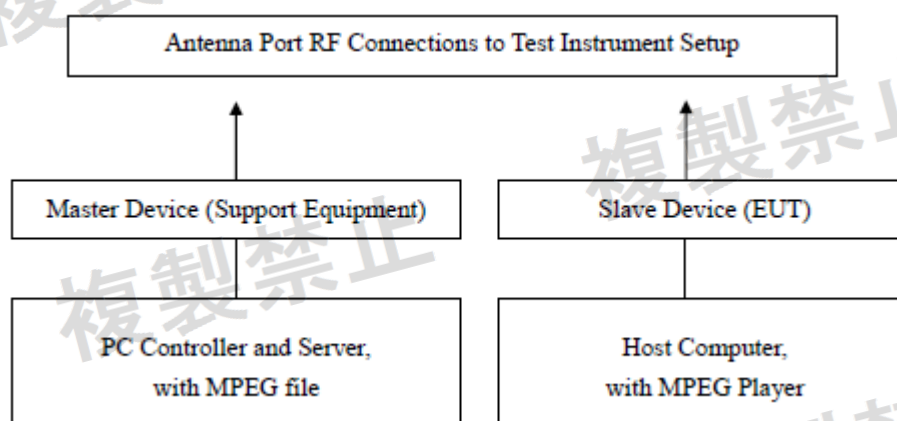
Download the applicable radar waveforms to the signal generator. Select the radar waveform, trigger a burst manually and measure the amplitude on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

Adjustment Of Displayed Traffic Level

Establish a link between the Master and Slave, adjusting the Link Step Attenuator as needed to provide a suitable received level at the Master and Slave devices. Stream the video test file to generate WLAN traffic. Confirm that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold. Confirm that the displayed traffic is from the Master Device. For Master Device testing confirm that the displayed traffic does not include Slave Device traffic. For Slave Device testing confirm that the displayed traffic does not include Master Device traffic.

If a different setting of the Master Step Attenuator is required to meet the above conditions, perform a new System Calibration for the new Master Step Attenuator setting.

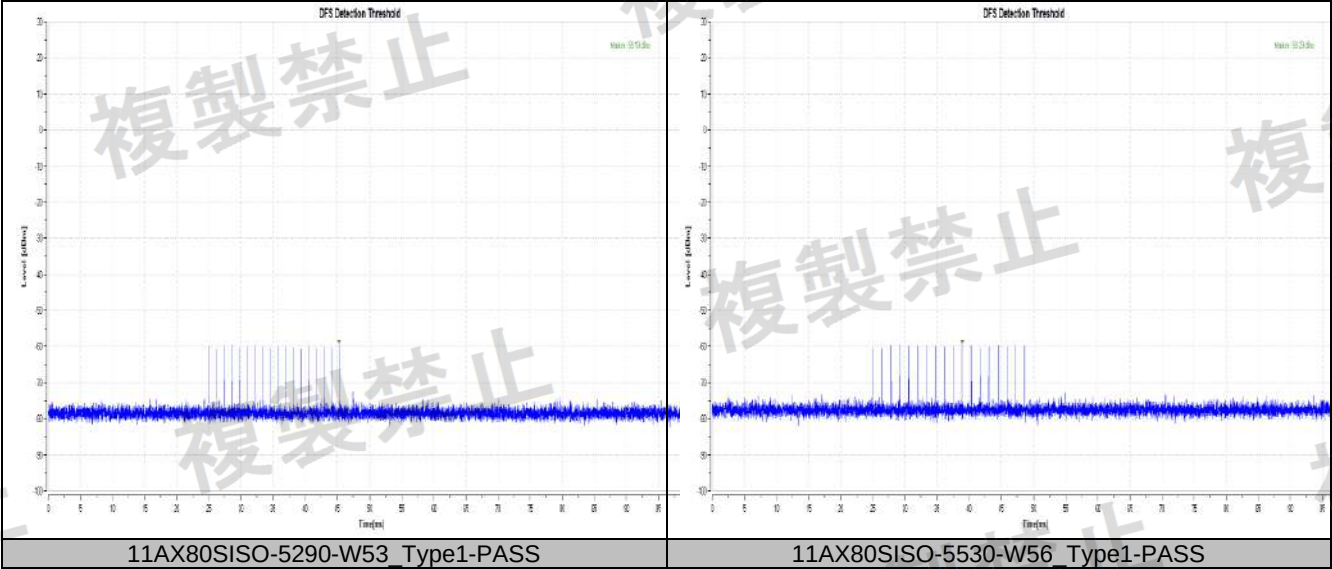
Test Setup





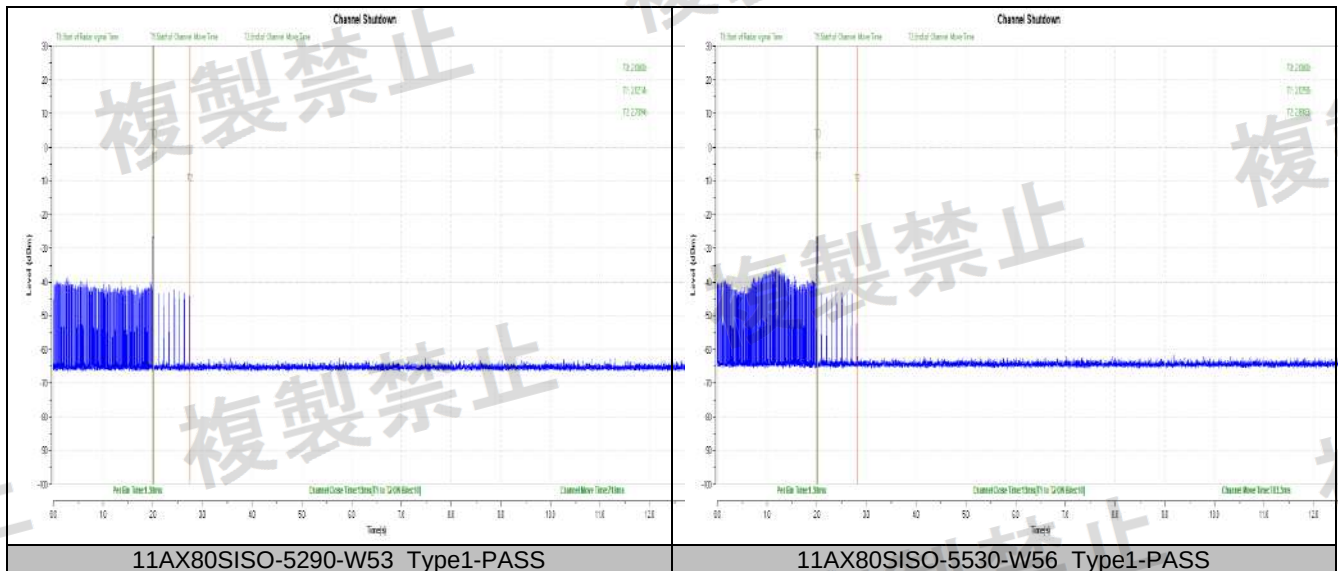
TEST RESULT

TestMode	Frequency[MHz]	Radar Type	Result[dbm]	Limit[dbm]	Verdict
11AX80SISO	5290	W53_Type1	-59.18	-59.07	PASS
11AX80SISO	5530	W56_Type1	-59.29	-58.83	PASS



**Channel Move Time & Channel Closing Transmission Time**

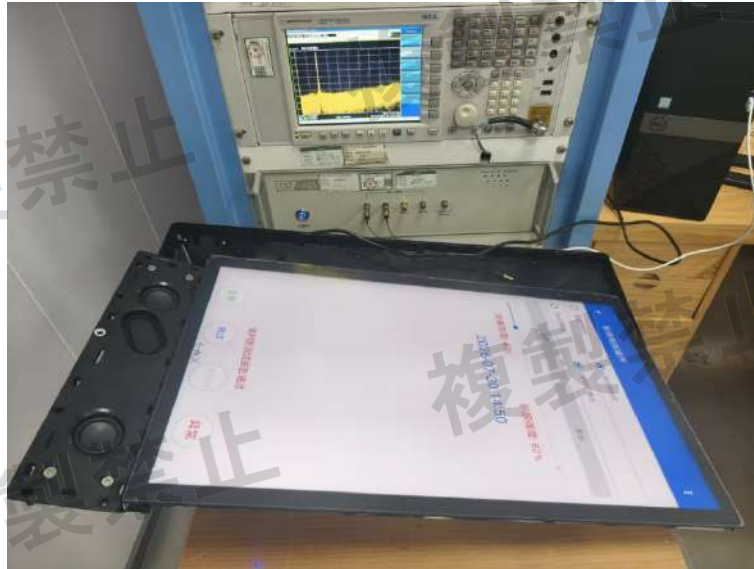
TestMode	Frequency[MHz]	Radar Type	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AX80SISO	5290	W53_Type1	13	260	718	10000	PASS
11AX80SISO	5530	W56_Type1	13	260	783.3	10000	PASS





4 Test Setup Photos of the EUT

WIFI RF Test



DFS Test





5 Photos of the EUT

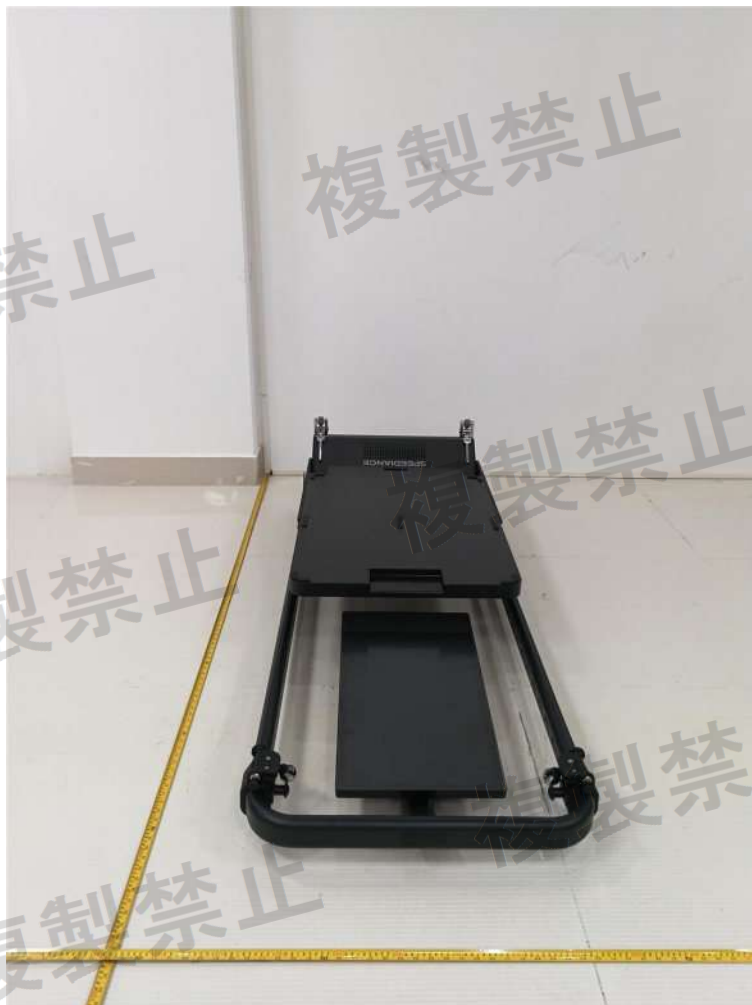
External Photo

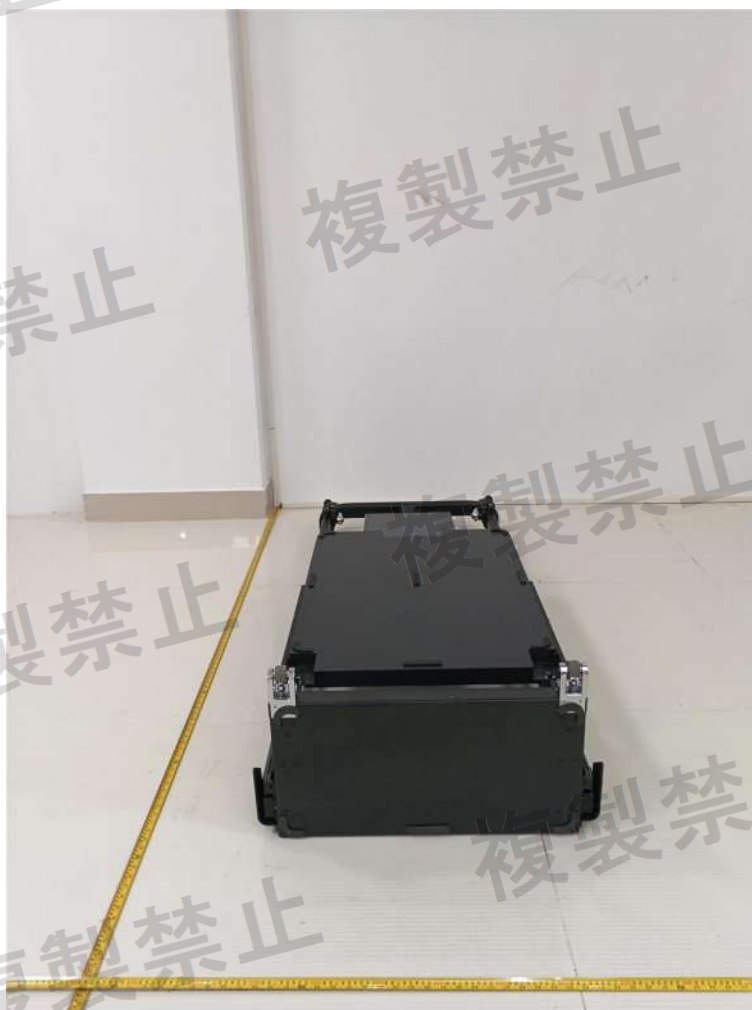












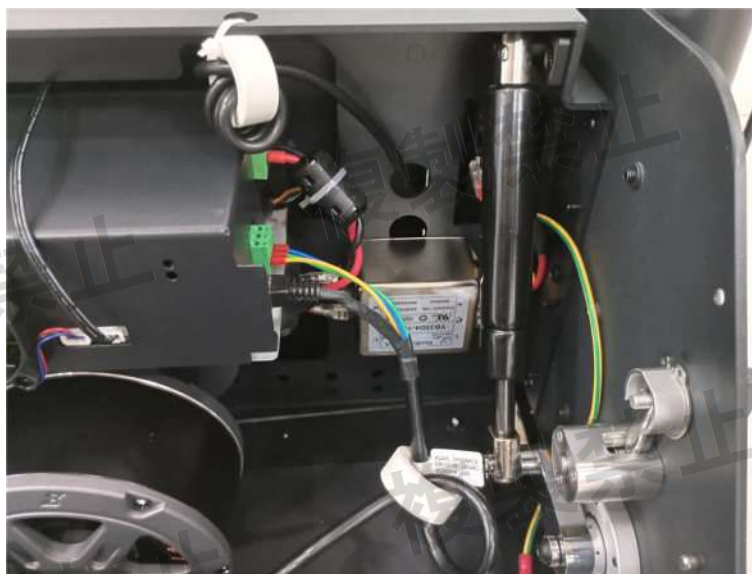






Internal Photo





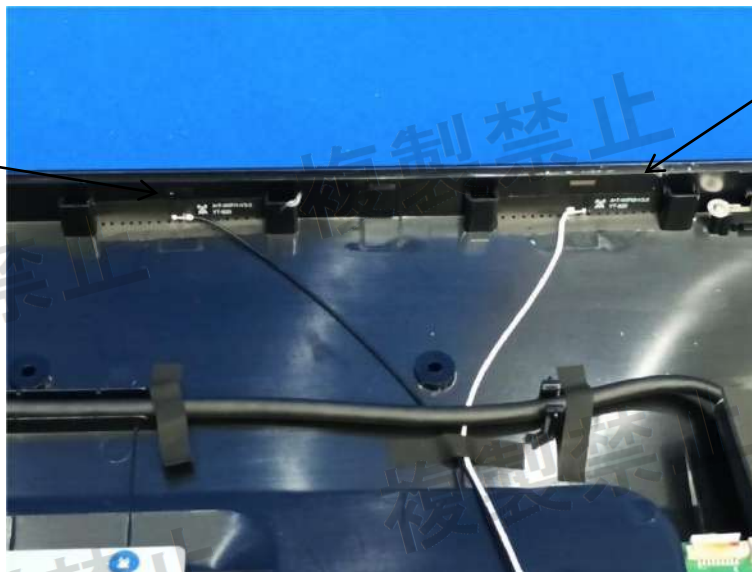






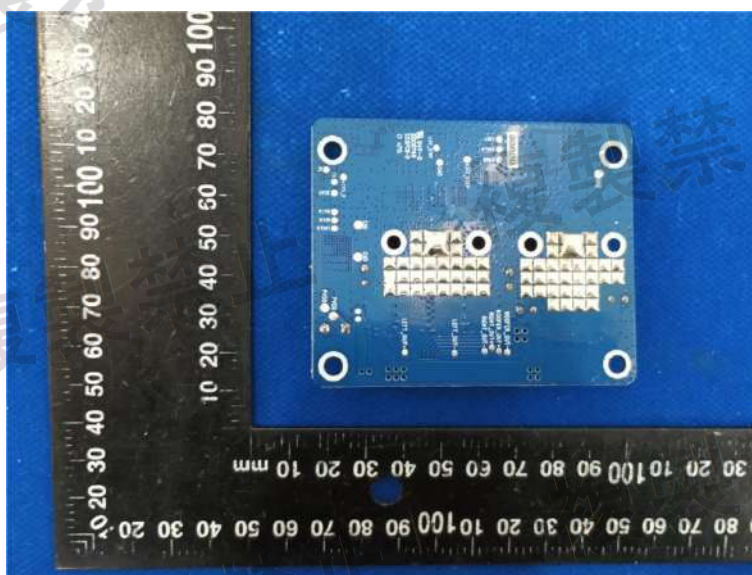
WIFI ANT 2

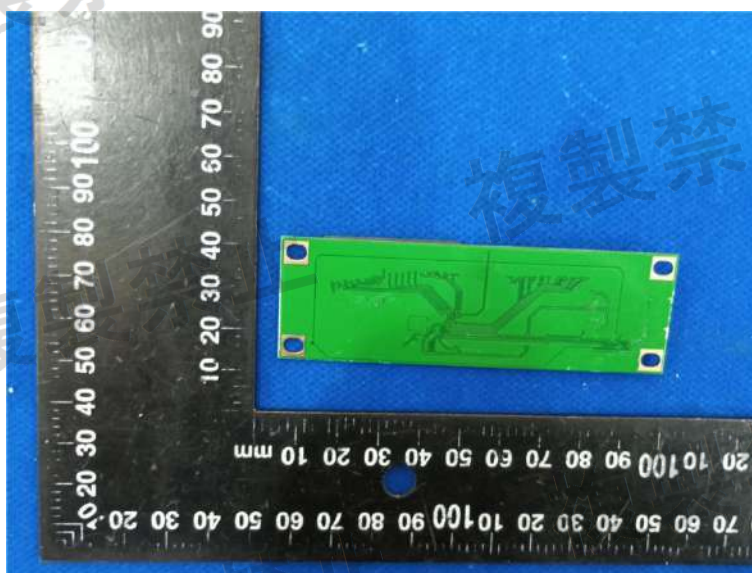
WIFI ANT 1

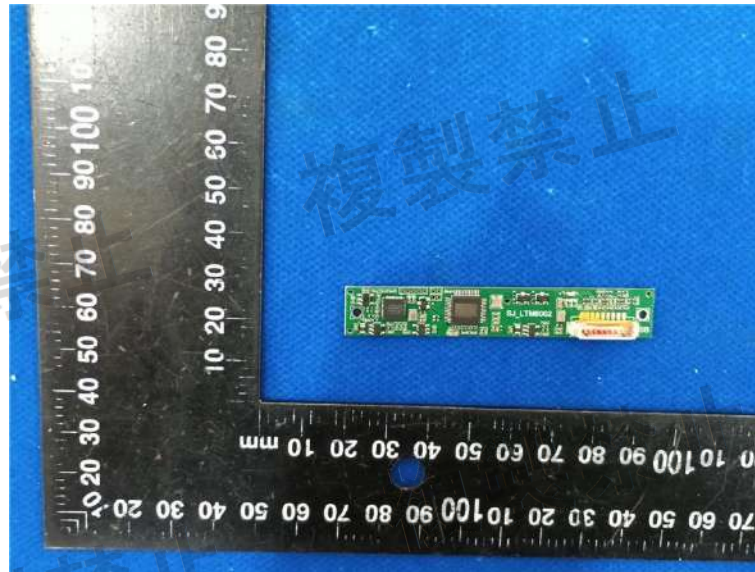


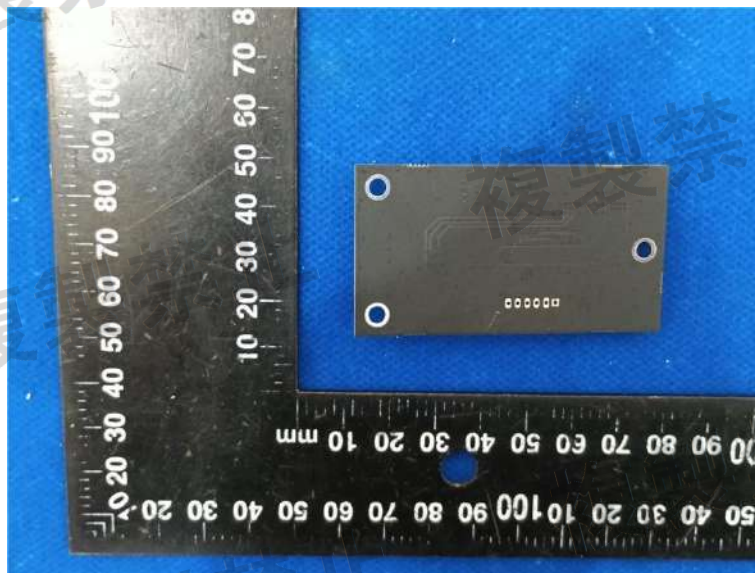
BT ANT

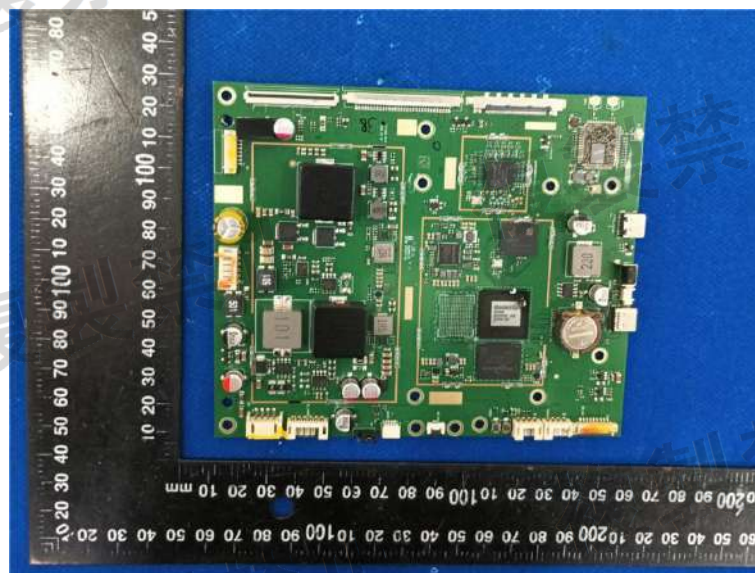


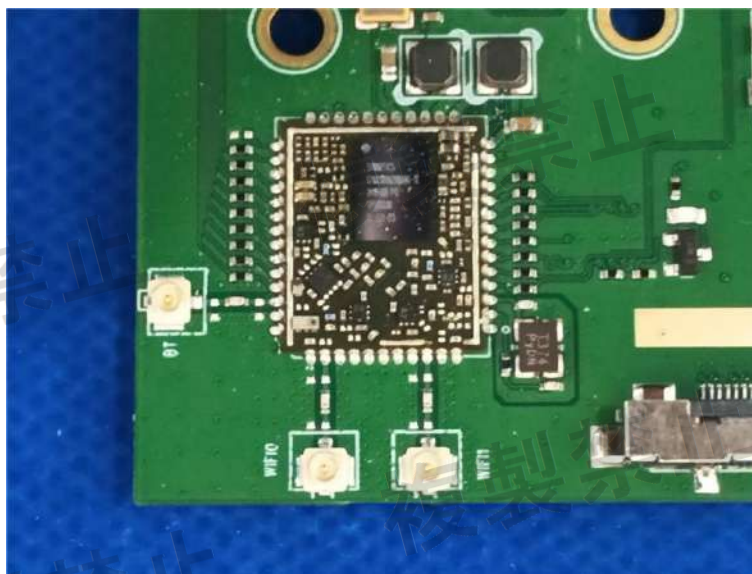


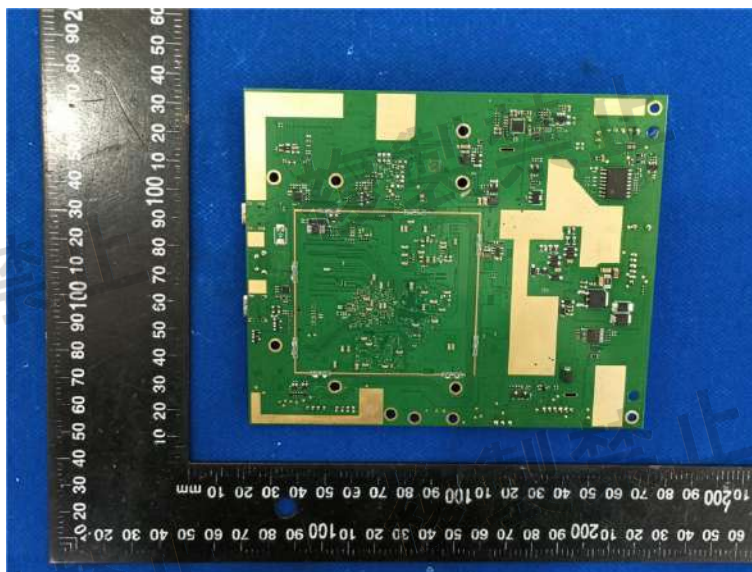


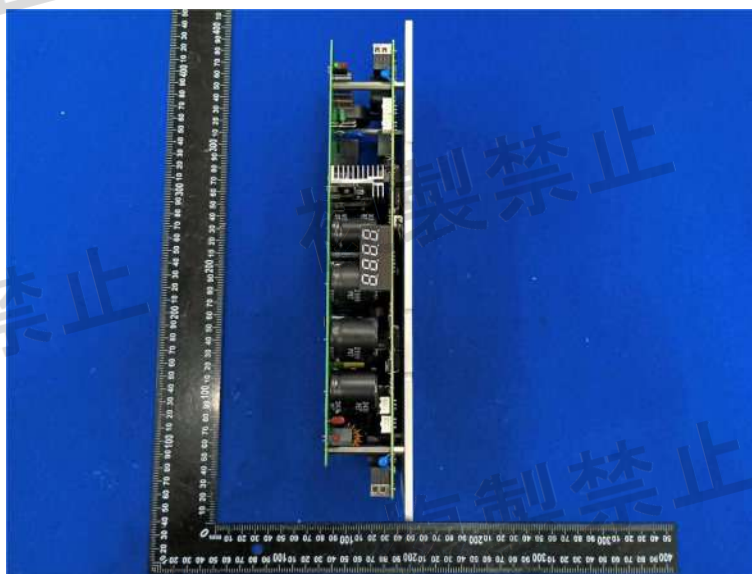


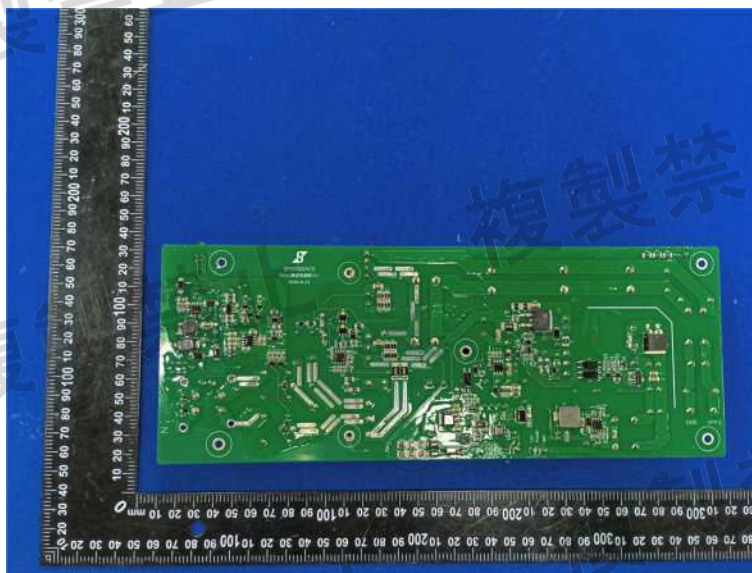
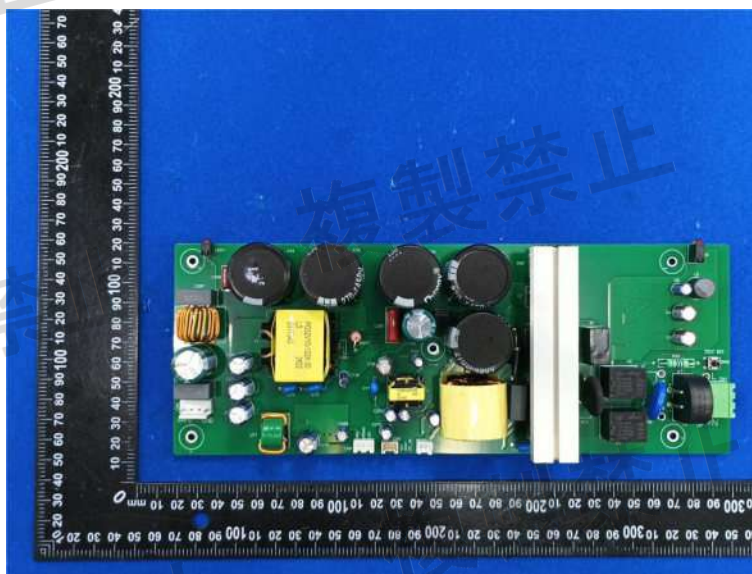
















***** End of Report *****