

Appendix RF test data for BT

1. Frequency Error

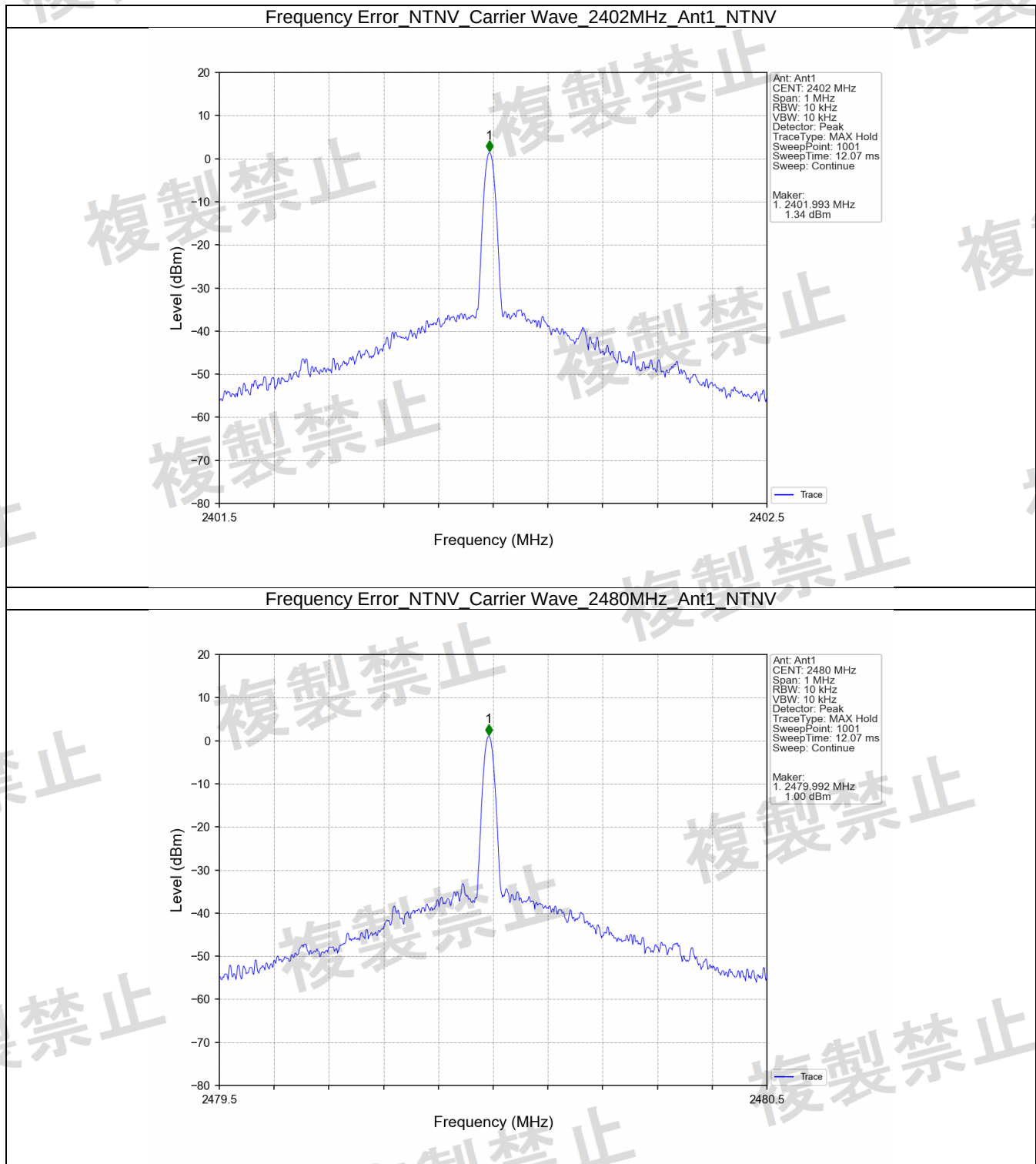
1.1 Test Result

1.1.1 Ant1

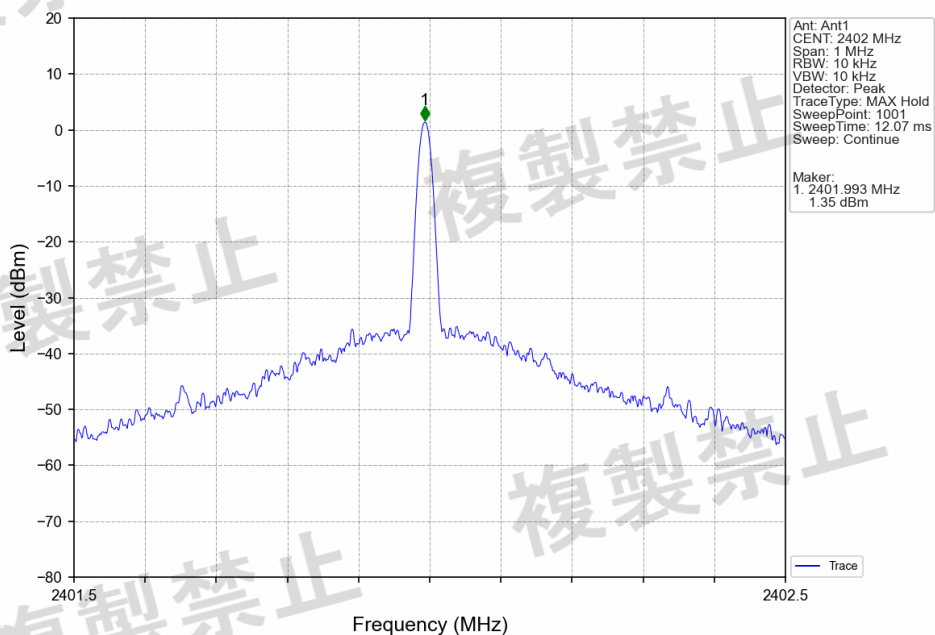
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
						Result	Limit	
NTNV	Carrier Wave	SISO	2402	DH5	2401.993	-2.91	-50 to 50	Pass
			2480	DH5	2479.992	-3.23	-50 to 50	Pass
NTLV	Carrier Wave	SISO	2402	DH5	2401.993	-2.91	-50 to 50	Pass
			2480	DH5	2479.992	-3.23	-50 to 50	Pass
NTHV	Carrier Wave	SISO	2402	DH5	2401.993	-2.91	-50 to 50	Pass
			2480	DH5	2479.992	-3.23	-50 to 50	Pass

1.2 Test Graph

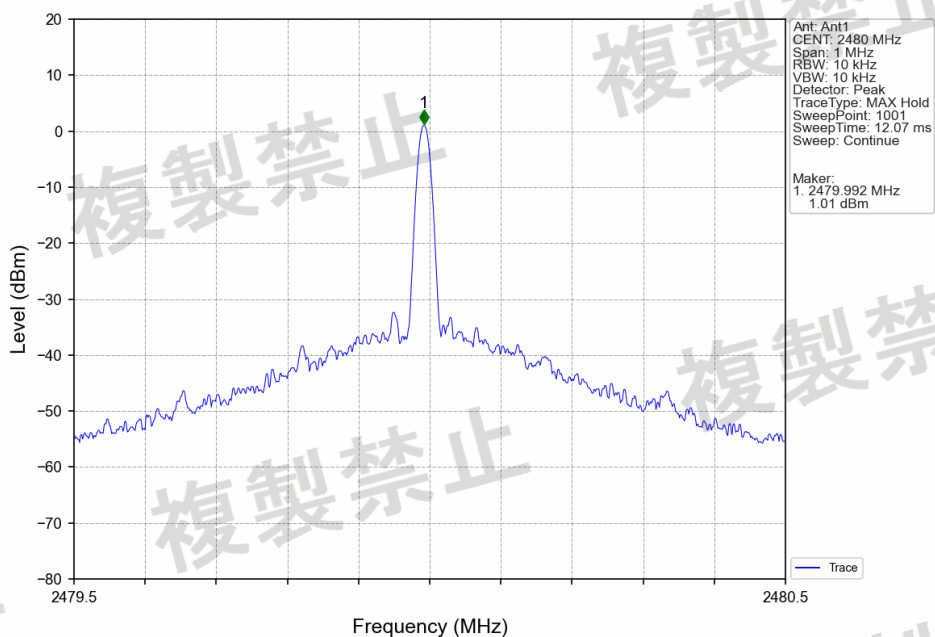
1.2.1 Ant1



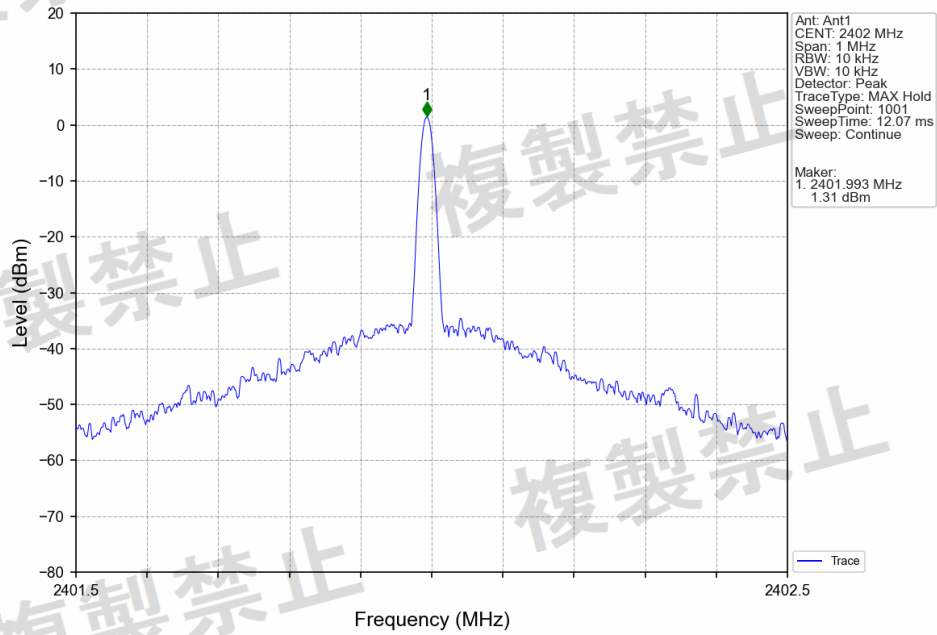
Frequency Error NTLV Carrier Wave 2402MHz Ant1 NTLV



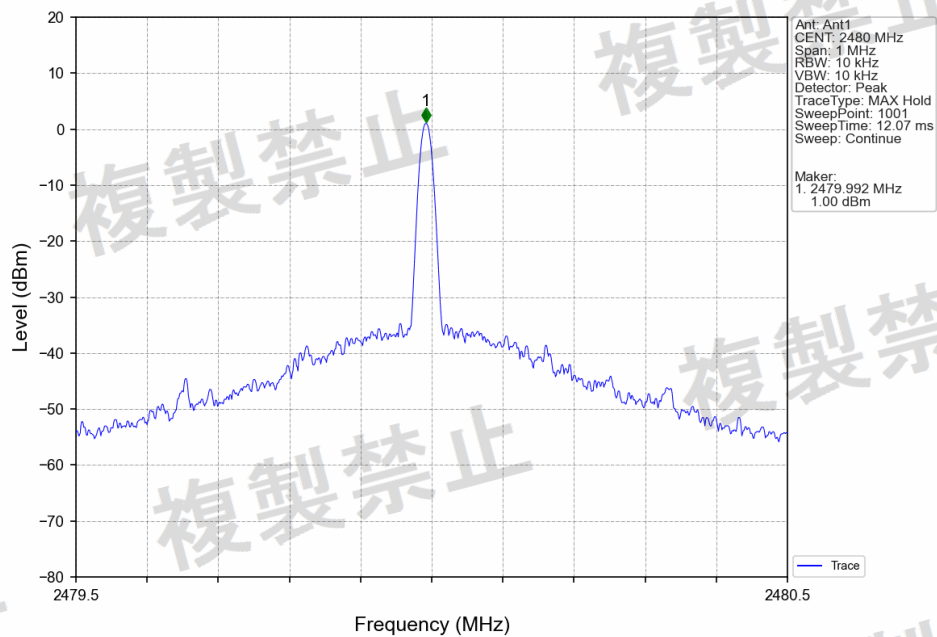
Frequency Error NTLV Carrier Wave 2480MHz Ant1 NTLV



Frequency Error NTHV Carrier Wave 2402MHz Ant1 NTHV



Frequency Error NTHV Carrier Wave 2480MHz Ant1 NTHV



2. Occupied Bandwidth

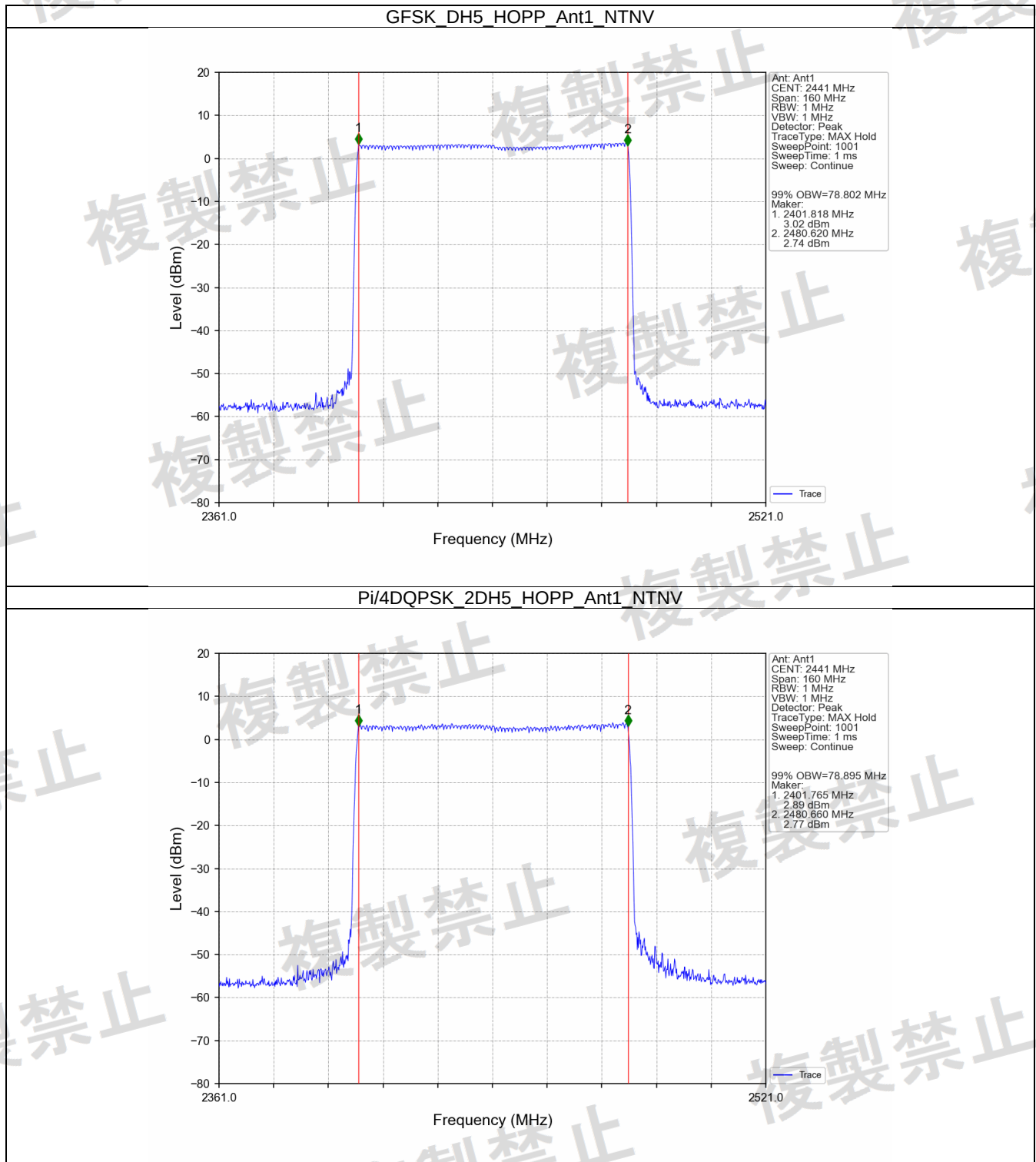
2.1 Test Result

2.1.1 OBW

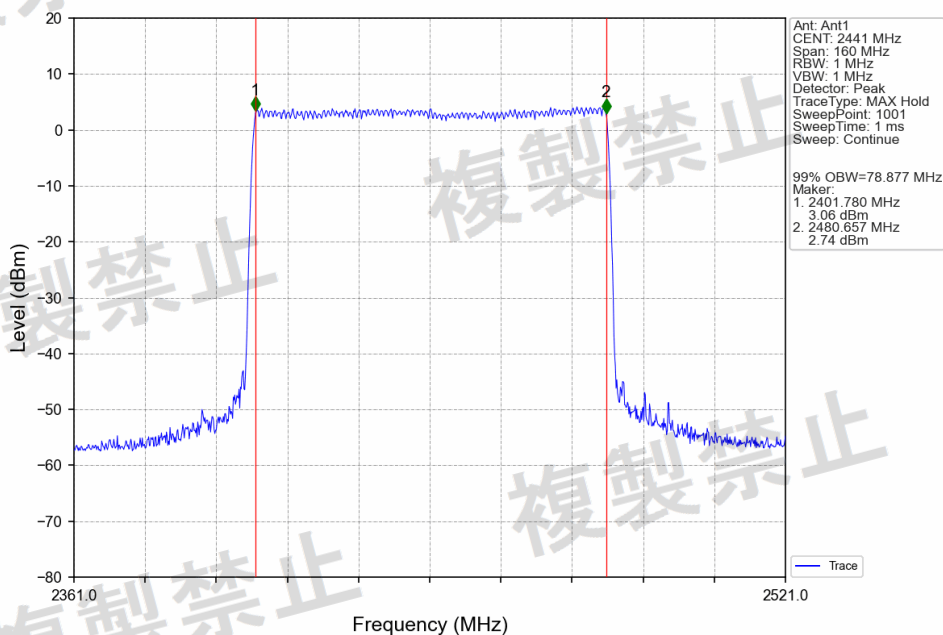
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	99% Occupied Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	78.802	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.895	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.877	≤ 83.5	Pass
NTLV	GFSK	SISO	HOPP	DH5	78.826	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.831	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.862	≤ 83.5	Pass
NTHV	GFSK	SISO	HOPP	DH5	78.796	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.825	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.873	≤ 83.5	Pass

2.2 Test Graph

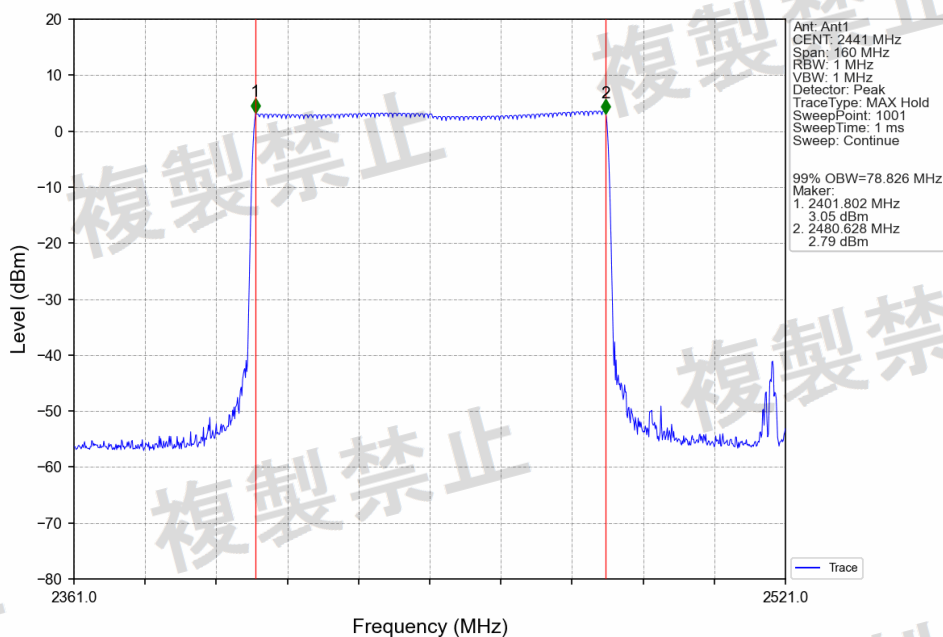
2.2.1 OBW



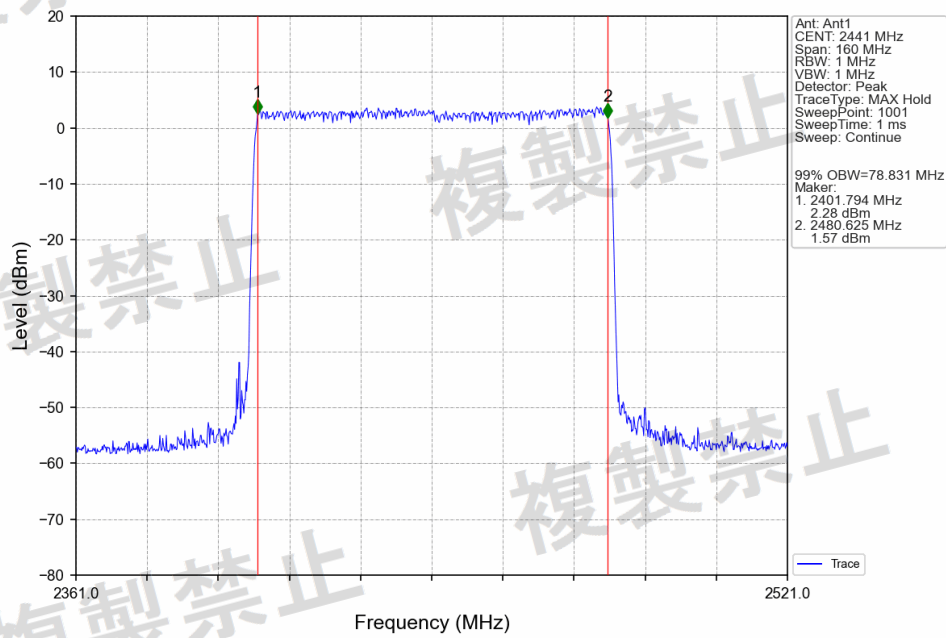
8DPSK 3DH5 HOPP_Ant1_NTNV



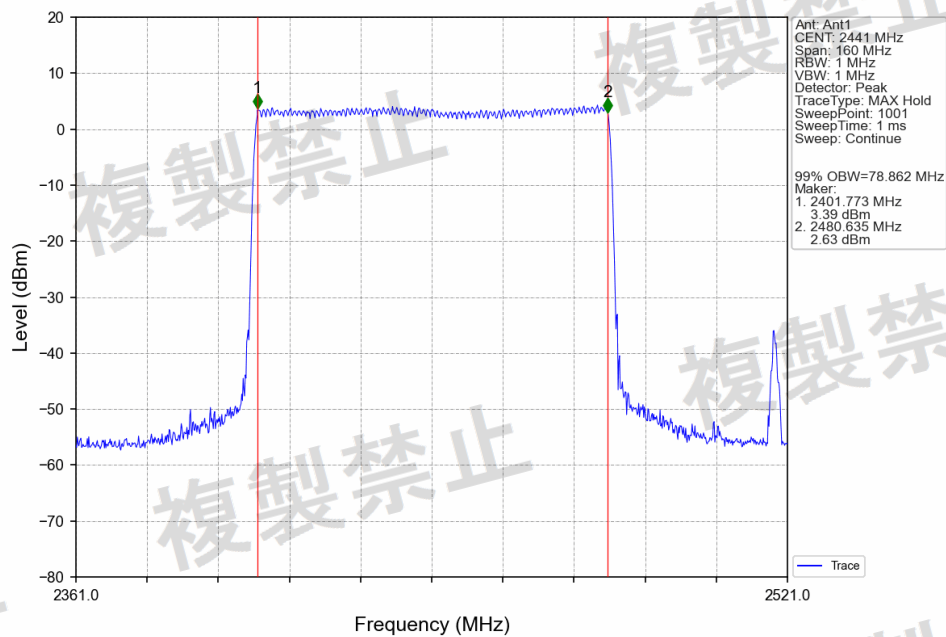
GFSK_DH5_HOPP_Ant1_NTLV



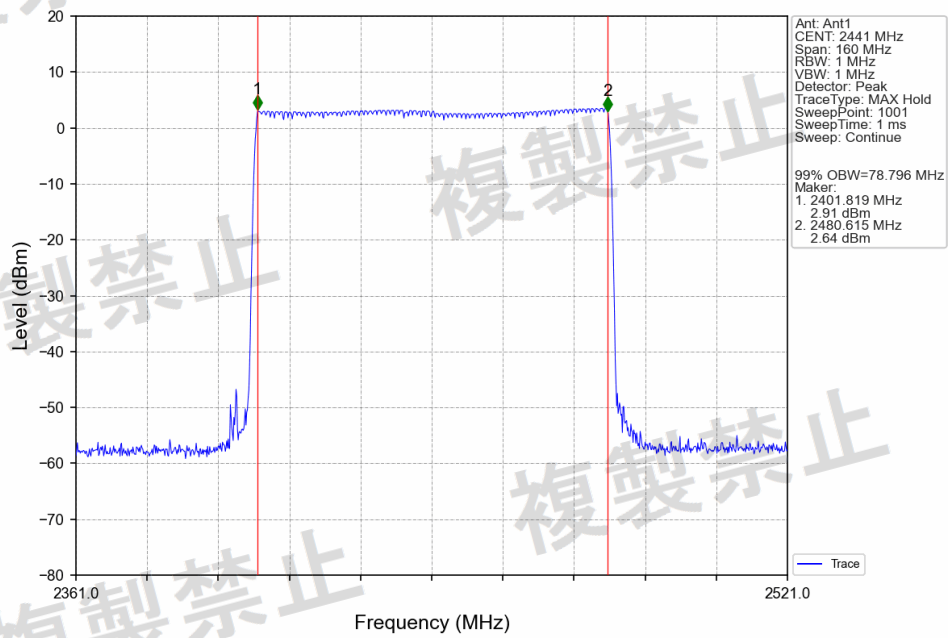
Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV



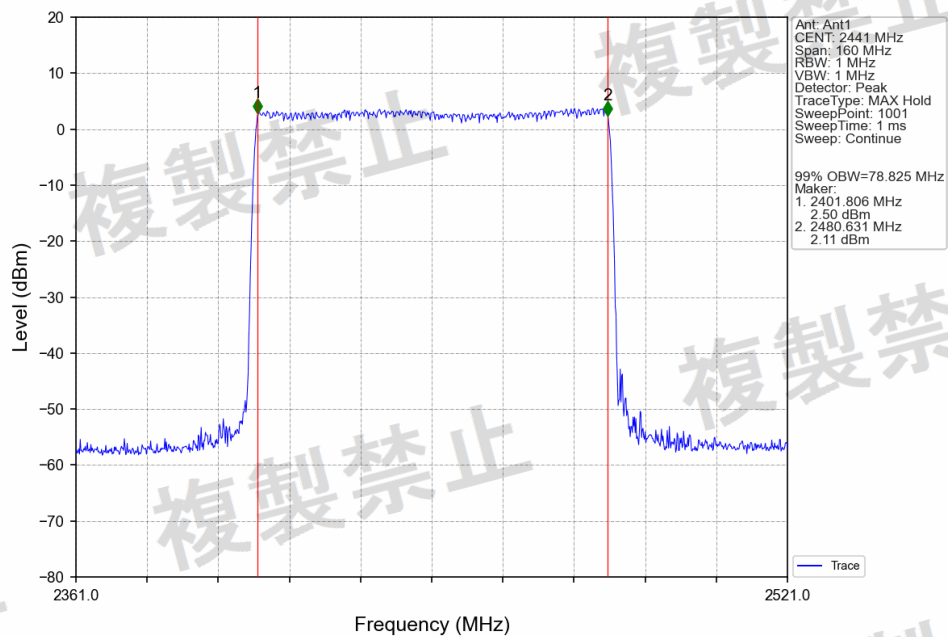
8DPSK_3DH5_HOPP_Ant1_NTLV

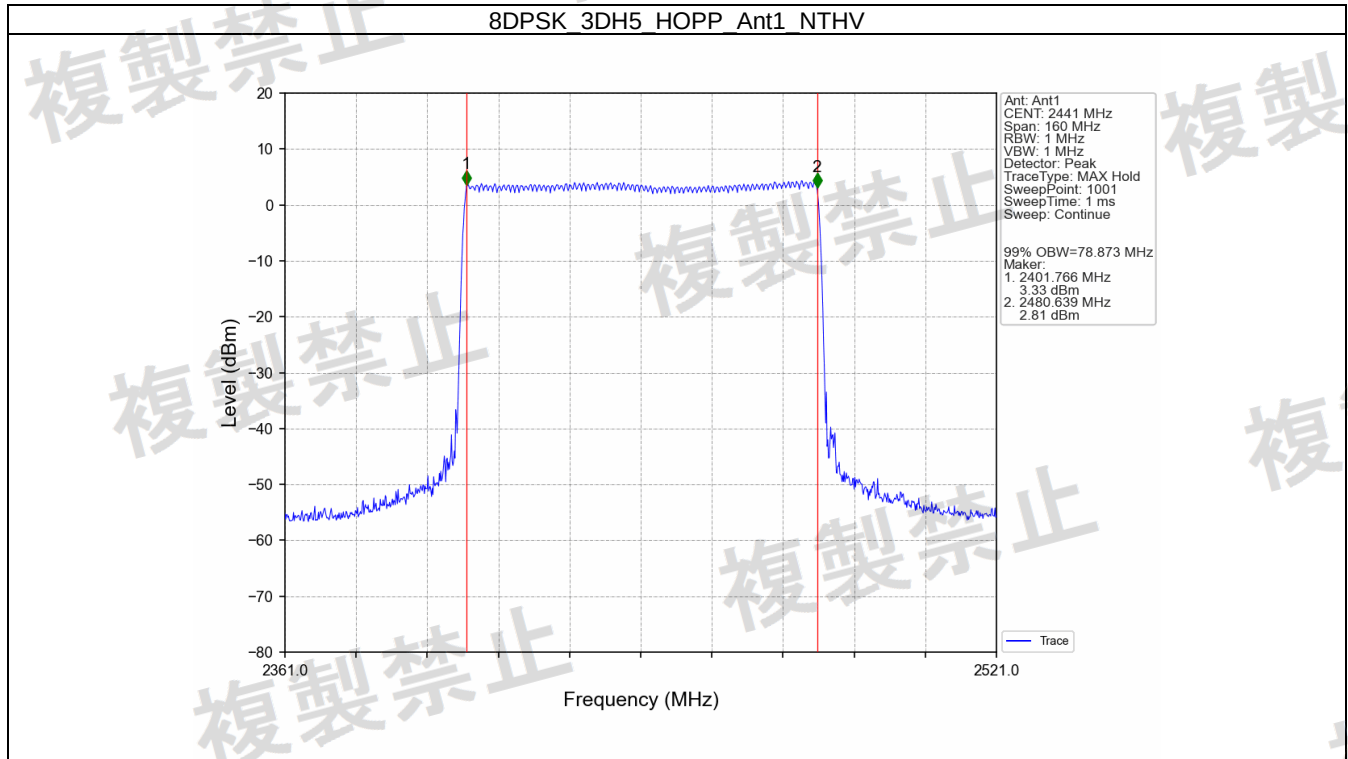


GFSK DH5 HOPP Ant1 NTHV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTHV





3. Spread Bandwidth

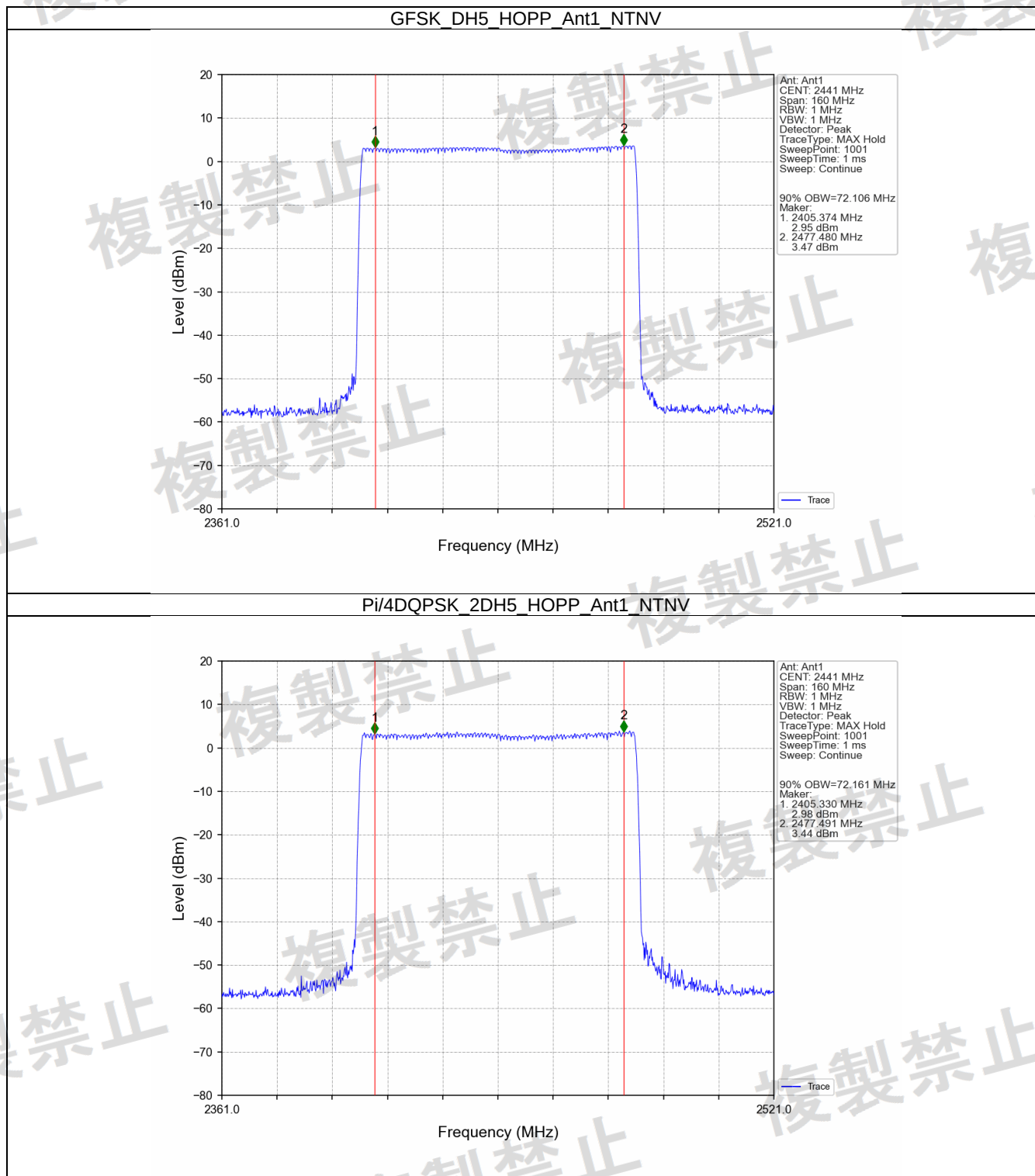
3.1 Test Result

3.1.1 SPBW

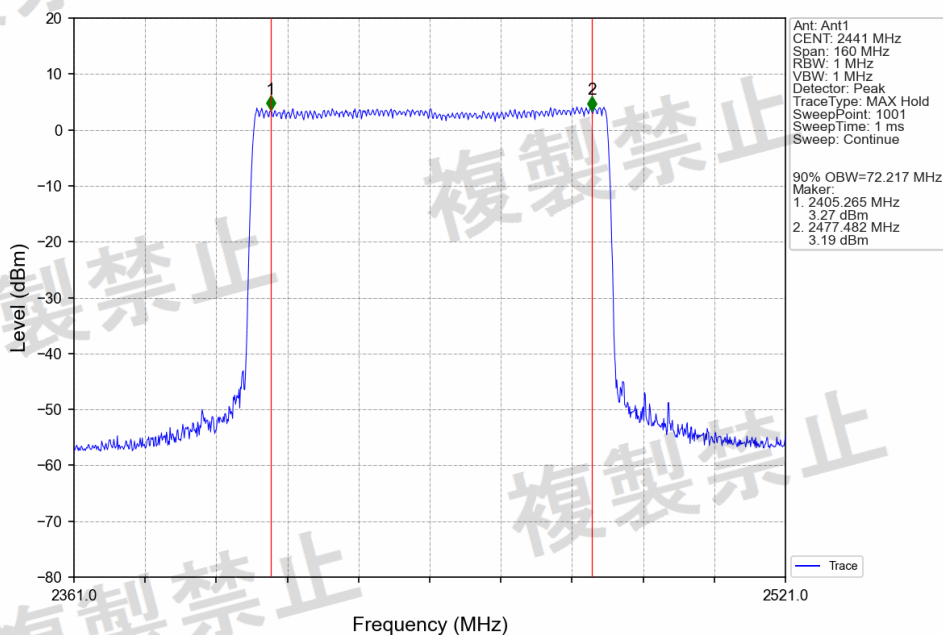
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spread Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	72.106	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	72.161	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	72.217	/	Only For Report
NTLV	GFSK	SISO	HOPP	DH5	72.102	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	72.056	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	72.162	/	Only For Report
NTHV	GFSK	SISO	HOPP	DH5	72.113	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	72.107	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	72.127	/	Only For Report

3.2 Test Graph

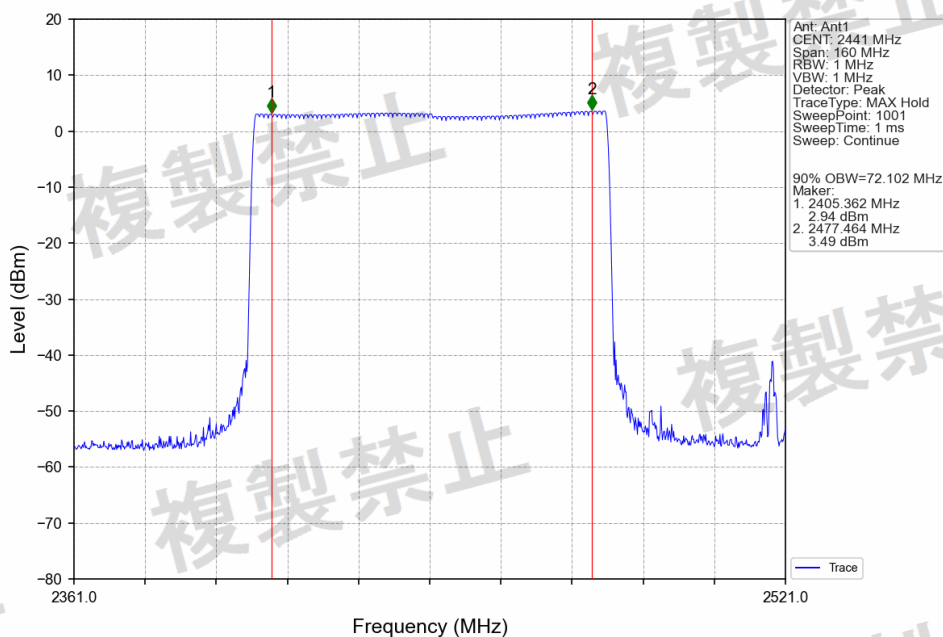
3.2.1 SPBW



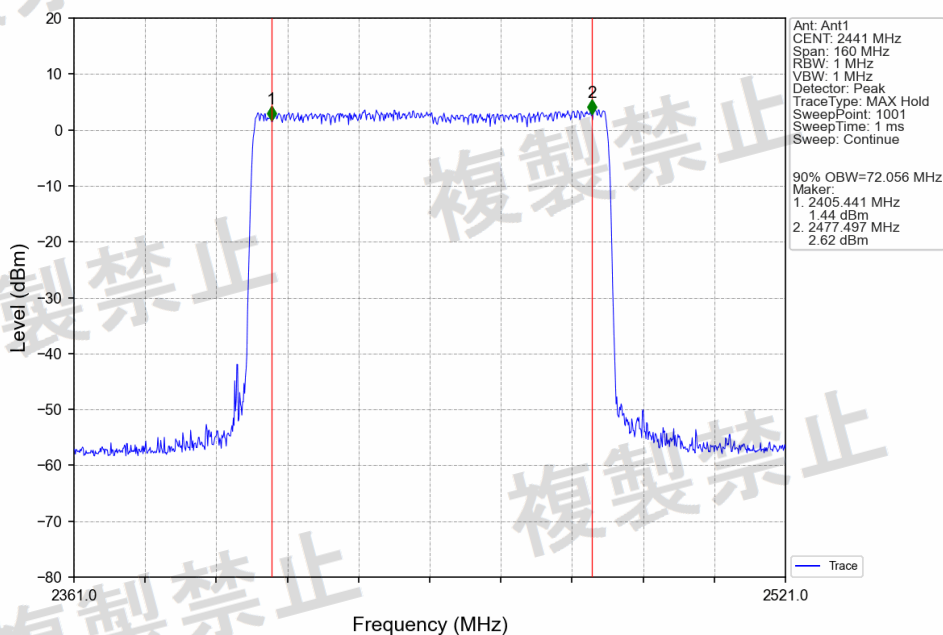
8DPSK 3DH5 HOPP_Ant1_NTNV



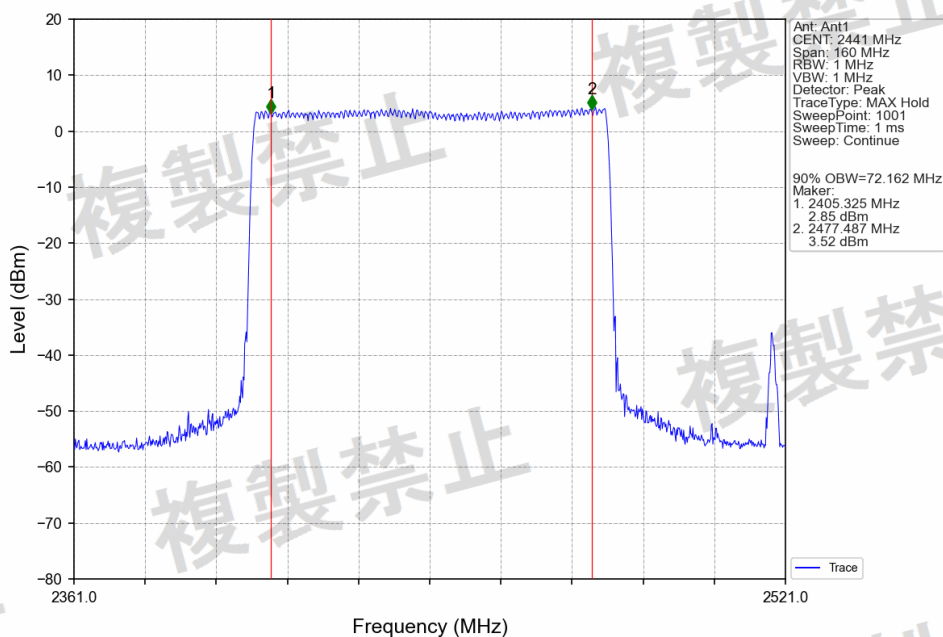
GFSK_DH5_HOPP_Ant1_NTLV



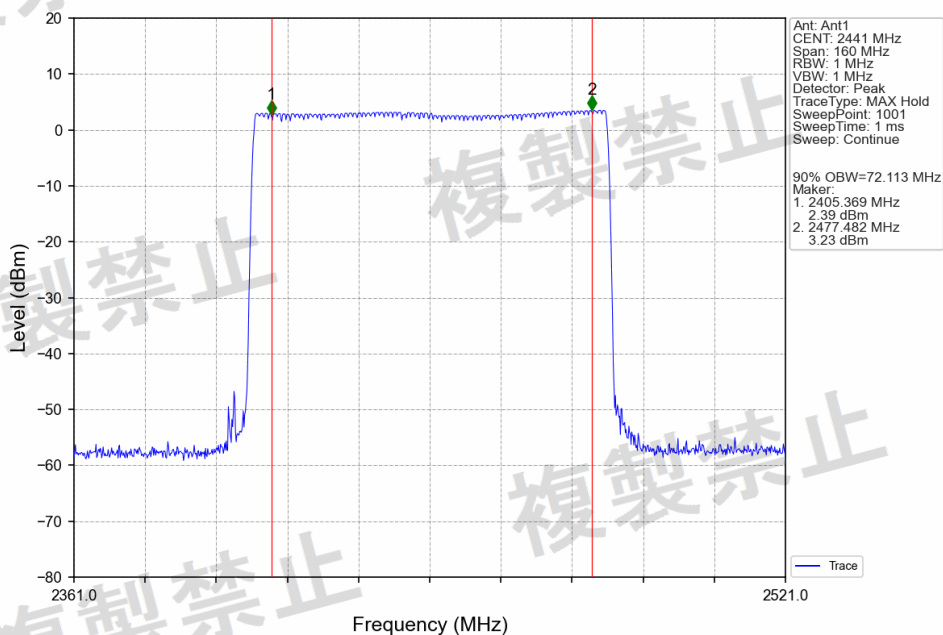
Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV



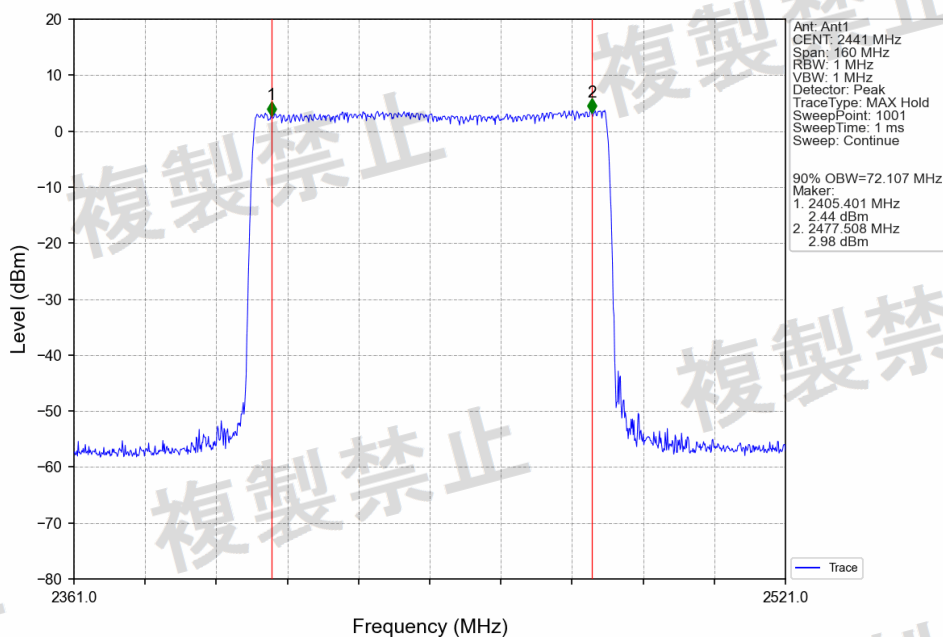
8DPSK_3DH5_HOPP_Ant1_NTLV

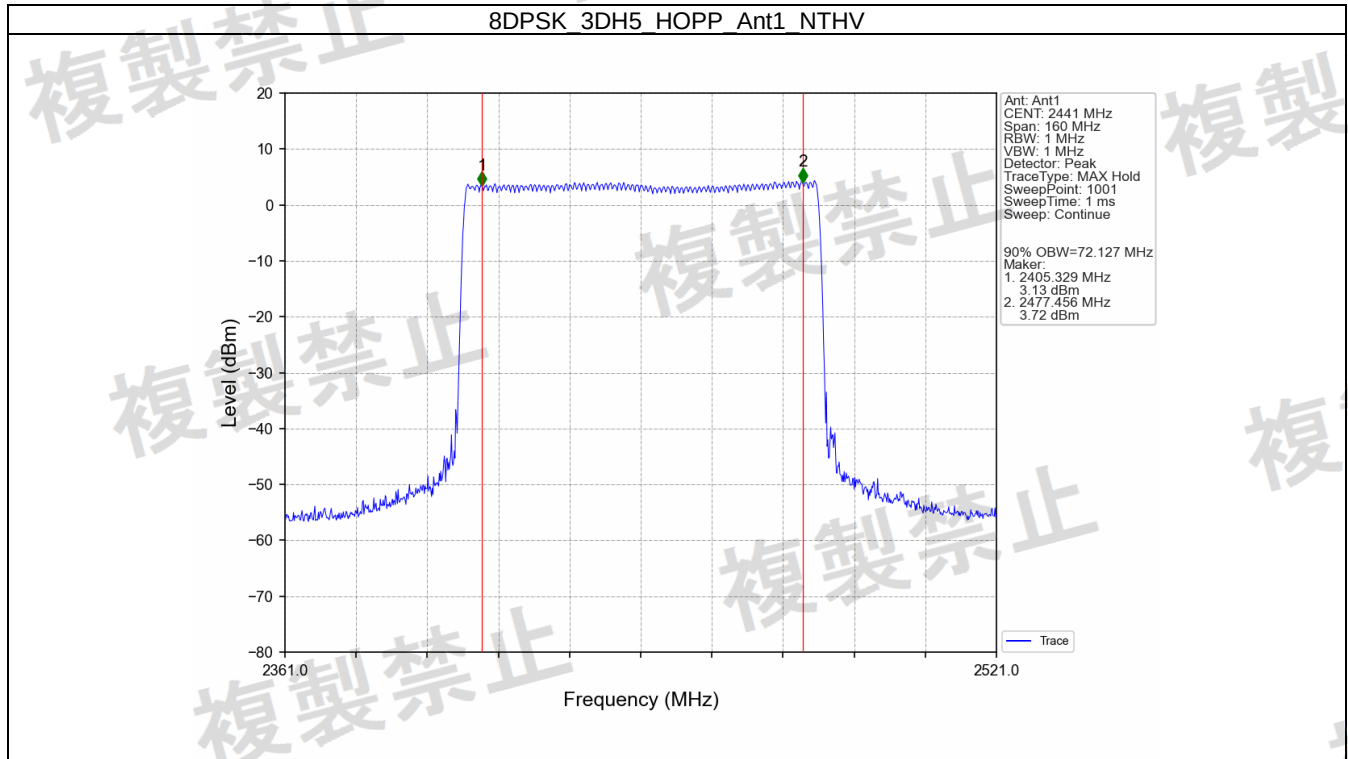


GFSK DH5 HOPP Ant1 NTHV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTHV





4. Antenna Power

4.1 Test Result

4.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Burst Power(dBm)	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
							Measured	Limit		Measured	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	2.73	0.026	<=3.00	0.03	-13.33%	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.89	0.017	<=3.00	0.03	-43.33%	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	1.14	0.018	<=3.00	0.03	-40.00%	<=20	Pass
NTLV	GFSK	SISO	HOPP	DH5	1	0.62	0.016	<=3.00	0.03	-46.67%	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.04	0.014	<=3.00	0.03	-53.33%	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	1.14	0.018	<=3.00	0.03	-40.00%	<=20	Pass
NTHV	GFSK	SISO	HOPP	DH5	1	2.89	0.027	<=3.00	0.03	-10.00%	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.88	0.017	<=3.00	0.03	-43.33%	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	1.13	0.018	<=3.00	0.03	-40.00%	<=20	Pass

Note: Antenna Power=Burst Power to mW/ Spread Bandwidth

4.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Antenna Power (mW/MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP (dBm/MHz)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	0.026	-15.85	-0.68	-16.53	<=6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.017	-17.70	-0.68	-18.38	<=6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.018	-17.45	-0.68	-18.13	<=6.91	Pass
NTLV	GFSK	SISO	HOPP	DH5	1	0.016	-17.96	-0.68	-18.64	<=6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.014	-18.54	-0.68	-19.22	<=6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.018	-17.45	-0.68	-18.13	<=6.91	Pass
NTHV	GFSK	SISO	HOPP	DH5	1	0.027	-15.69	-0.68	-16.37	<=6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.017	-17.70	-0.68	-18.38	<=6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.018	-17.45	-0.68	-18.13	<=6.91	Pass

Note: EIRP = Antenna Power+ Gain (dBi)

5. Dwell Time

5.1 Test Result

5.1.1 Ant1

Ant1											
ENV	Mode	Tx Type	Frequency (MHz)	Packet Type	Spreading Rate	T _{on} (ms)	Period (ms)	Hopp Number	Dwell Time (ms)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	2402	DH1	72.106	0.409	1.250	79	119.459	<=400	Pass
				DH3	72.106	1.665	2.500	79	243.152	<=400	Pass
				DH5	72.106	2.914	3.750	79	283.702	<=400	Pass
			2480	DH1	72.106	0.410	1.250	79	119.751	<=400	Pass
				DH3	72.106	1.665	2.500	79	243.152	<=400	Pass
				DH5	72.106	2.912	3.750	79	283.507	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	72.161	0.419	1.250	79	122.473	<=400	Pass
				2DH3	72.161	1.671	2.500	79	244.215	<=400	Pass
				2DH5	72.161	2.919	3.750	79	284.406	<=400	Pass
			2480	2DH1	72.161	0.420	1.250	79	122.765	<=400	Pass
				2DH3	72.161	1.672	2.500	79	244.361	<=400	Pass
				2DH5	72.161	2.919	3.750	79	284.406	<=400	Pass
	8DPSK	SISO	2402	3DH1	72.217	0.422	1.250	79	123.445	<=400	Pass
				3DH3	72.217	1.671	2.500	79	244.404	<=400	Pass
				3DH5	72.217	2.922	3.750	79	284.919	<=400	Pass
			2480	3DH1	72.217	0.421	1.250	79	123.153	<=400	Pass
				3DH3	72.217	1.671	2.500	79	244.404	<=400	Pass
				3DH5	72.217	2.922	3.750	79	284.919	<=400	Pass
NTLV	GFSK	SISO	2402	DH1	72.102	0.409	1.250	79	119.452	<=400	Pass
				DH3	72.102	1.665	2.500	79	243.139	<=400	Pass
				DH5	72.102	2.913	3.750	79	283.589	<=400	Pass
			2480	DH1	72.102	0.410	1.250	79	119.744	<=400	Pass
				DH3	72.102	1.665	2.500	79	243.139	<=400	Pass
				DH5	72.102	2.912	3.750	79	283.492	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	72.056	0.420	1.250	79	122.586	<=400	Pass
				2DH3	72.056	1.671	2.500	79	243.859	<=400	Pass
				2DH5	72.056	2.920	3.750	79	284.089	<=400	Pass
			2480	2DH1	72.056	0.419	1.250	79	122.295	<=400	Pass
				2DH3	72.056	1.671	2.500	79	243.859	<=400	Pass
				2DH5	72.056	2.919	3.750	79	283.992	<=400	Pass
	8DPSK	SISO	2402	3DH1	72.162	0.422	1.250	79	123.351	<=400	Pass
				3DH3	72.162	1.670	2.500	79	244.072	<=400	Pass
				3DH5	72.162	2.921	3.750	79	284.604	<=400	Pass
			2480	3DH1	72.162	0.420	1.250	79	122.767	<=400	Pass
				3DH3	72.162	1.671	2.500	79	244.218	<=400	Pass
				3DH5	72.162	2.922	3.750	79	284.702	<=400	Pass
NTHV	GFSK	SISO	2402	DH1	72.113	0.410	1.250	79	119.762	<=400	Pass
				DH3	72.113	1.665	2.500	79	243.176	<=400	Pass
				DH5	72.113	2.914	3.750	79	283.730	<=400	Pass
			2480	DH1	72.113	0.409	1.250	79	119.470	<=400	Pass
				DH3	72.113	1.665	2.500	79	243.176	<=400	Pass
				DH5	72.113	2.913	3.750	79	283.632	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	72.107	0.419	1.250	79	122.381	<=400	Pass
				2DH3	72.107	1.670	2.500	79	243.886	<=400	Pass
				2DH5	72.107	2.919	3.750	79	284.193	<=400	Pass
			2480	2DH1	72.107	0.419	1.250	79	122.381	<=400	Pass
				2DH3	72.107	1.671	2.500	79	244.032	<=400	Pass
				2DH5	72.107	2.919	3.750	79	284.193	<=400	Pass
	8DPSK	SISO	2402	3DH1	72.127	0.420	1.250	79	122.707	<=400	Pass

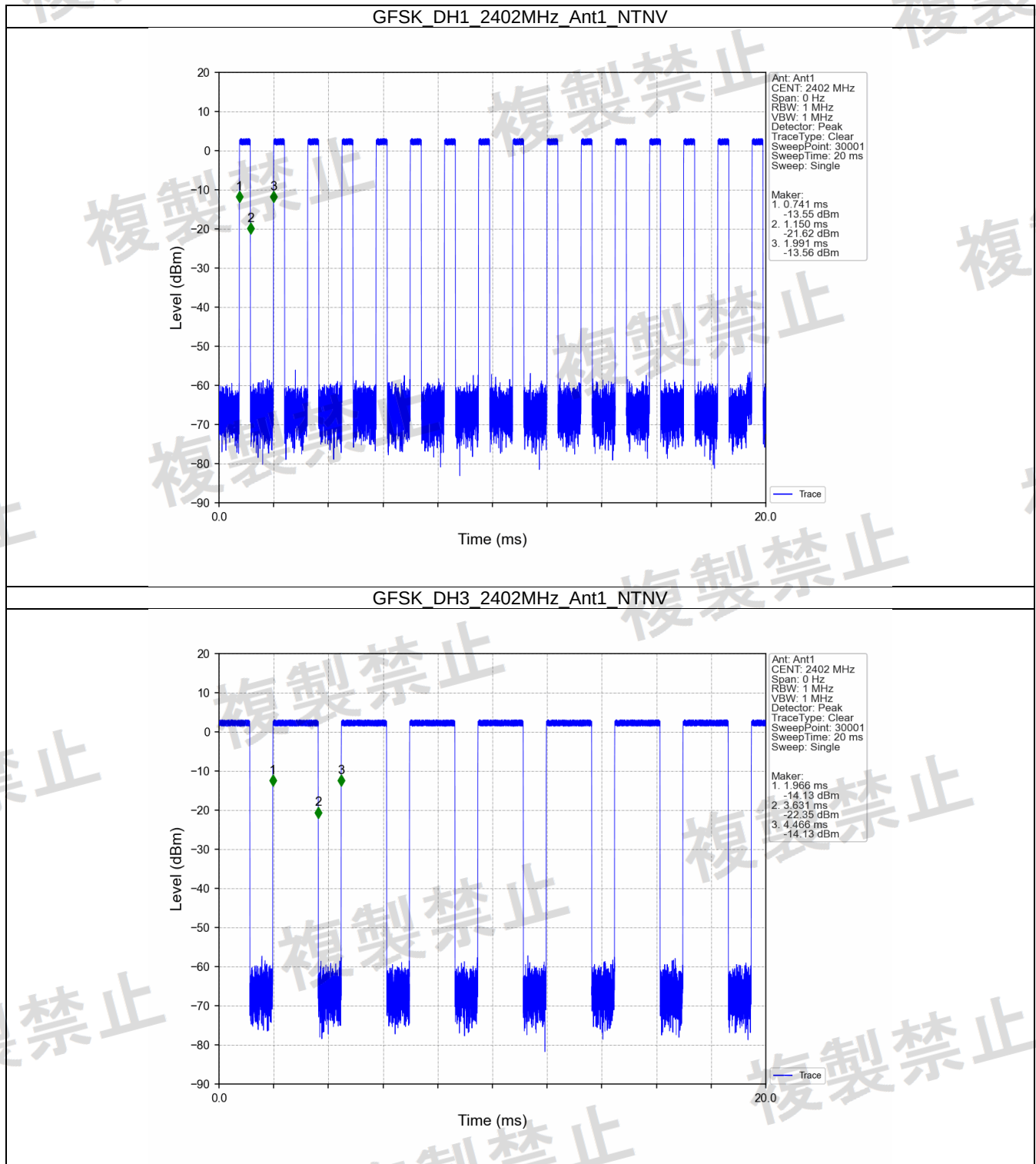


			2480	3DH3	72.127	1.671	2.500	79	244.100	<=400	Pass
				3DH5	72.127	2.922	3.750	79	284.564	<=400	Pass
				3DH1	72.127	0.420	1.250	79	122.707	<=400	Pass
				3DH3	72.127	1.672	2.500	79	244.246	<=400	Pass
				3DH5	72.127	2.922	3.750	79	284.564	<=400	Pass

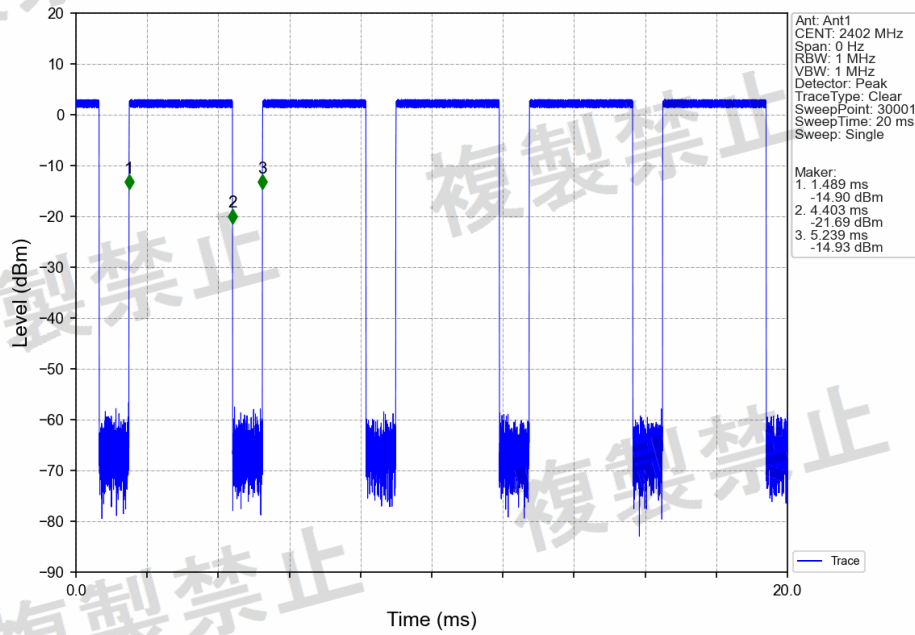
Note: Dwell Time = 90% spreading factor / total number of channels * duty cycle * 400ms

5.2 Test Graph

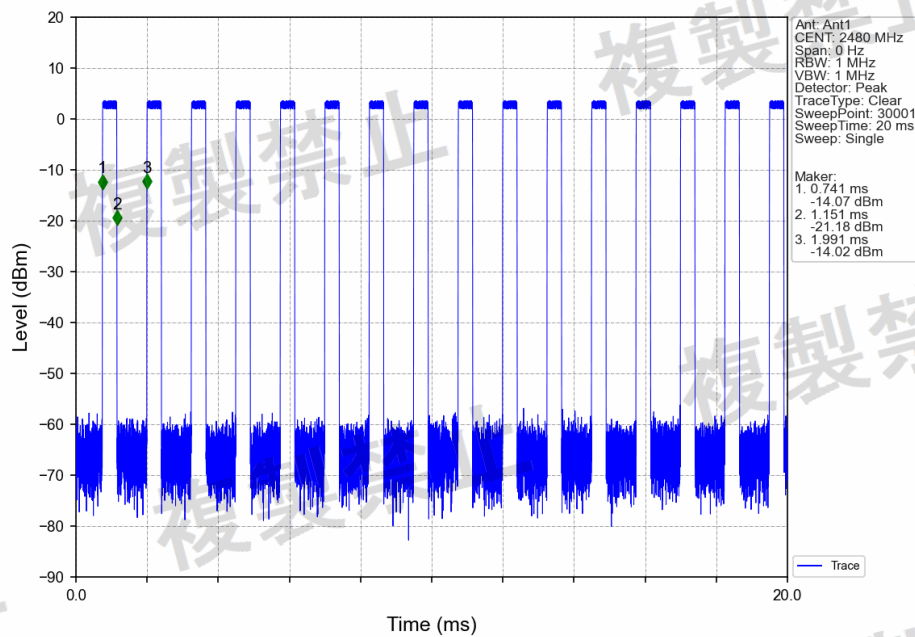
5.2.1 Ant1



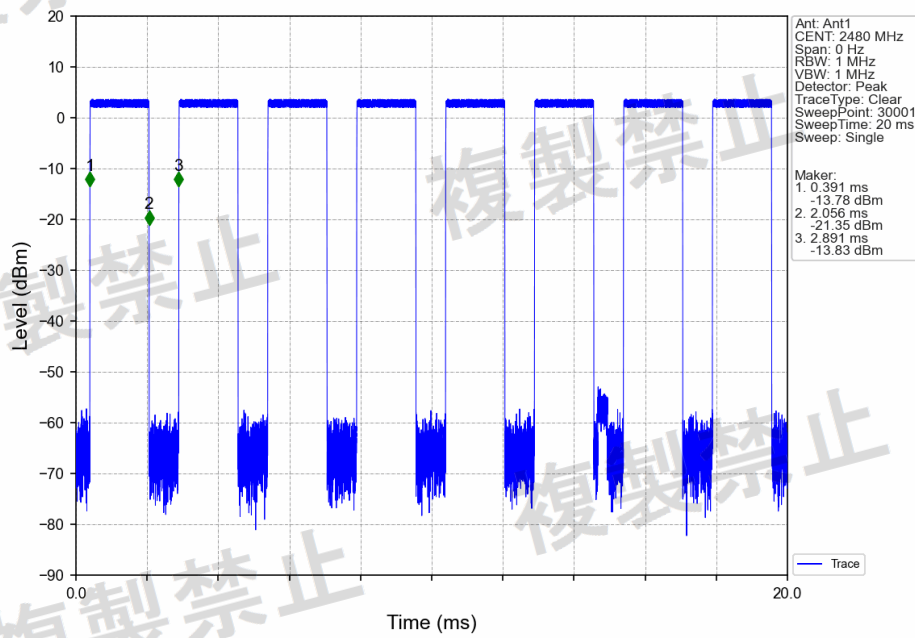
GFSK DH5 2402MHz Ant1 NTN



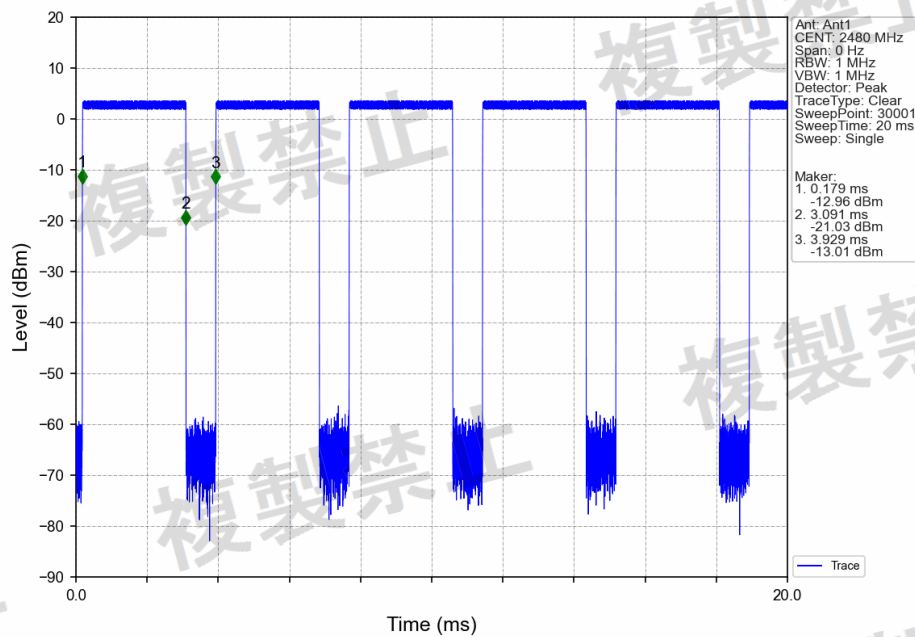
GFSK DH1 2480MHz Ant1 NTN



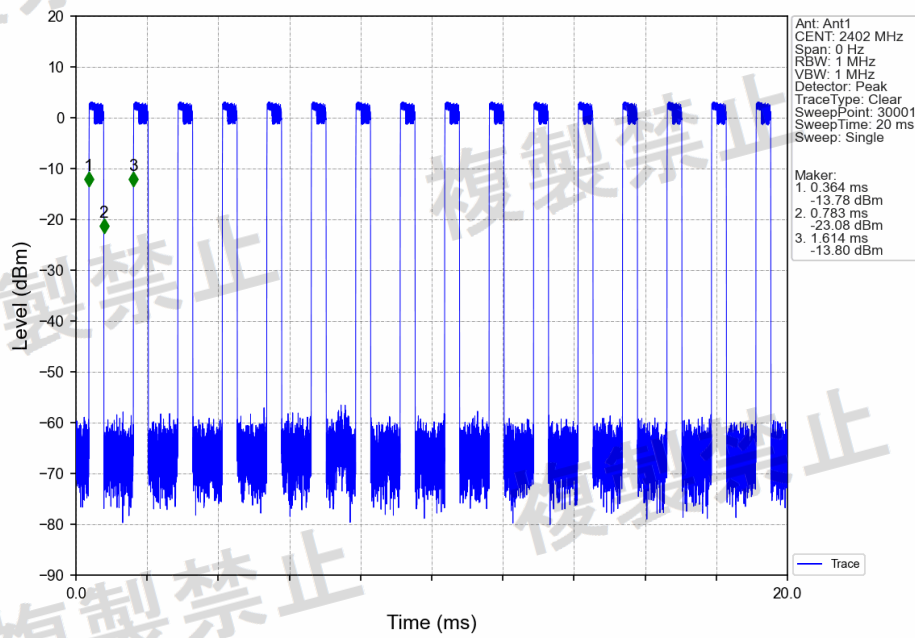
GFSK DH3 2480MHz Ant1 NTN



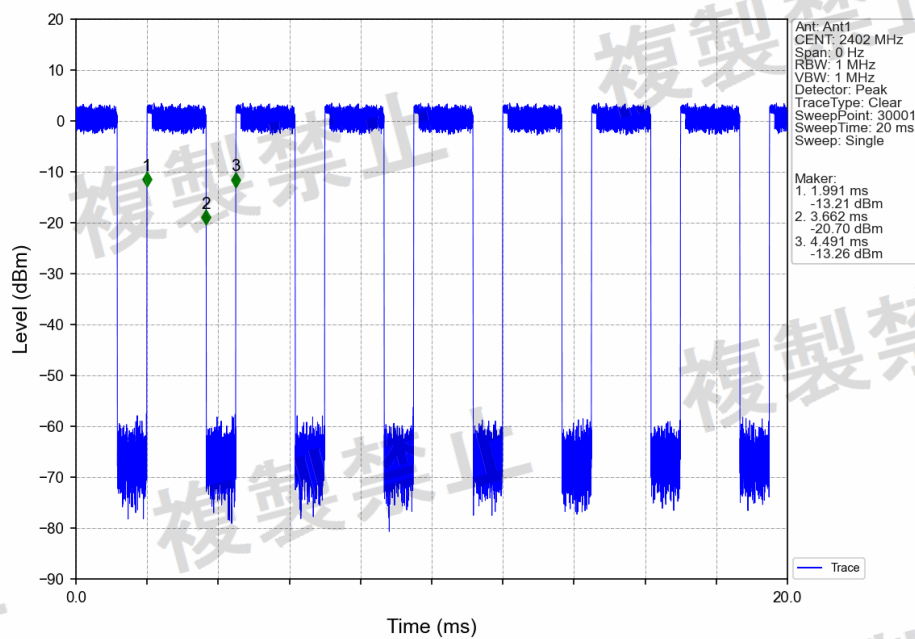
GFSK DH5 2480MHz Ant1 NTN



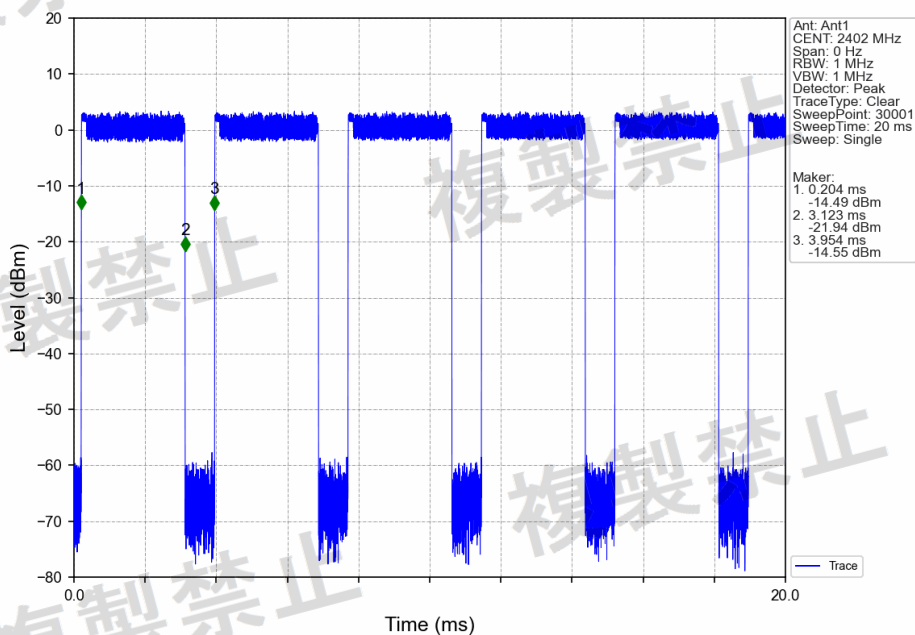
Pi/4DQPSK_2DH1_2402MHz_Ant1_NTNV



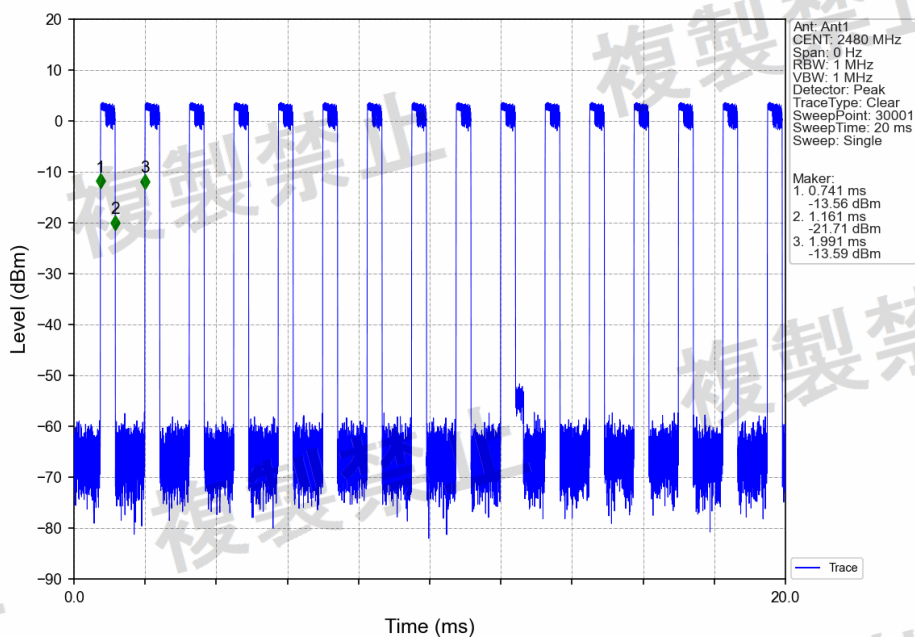
Pi/4DQPSK_2DH3_2402MHz_Ant1_NTNV



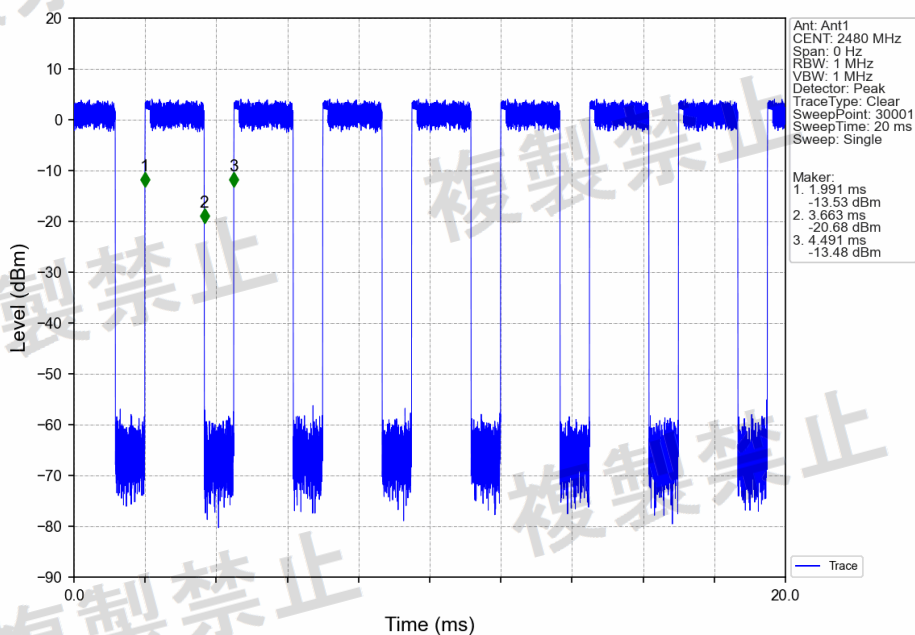
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



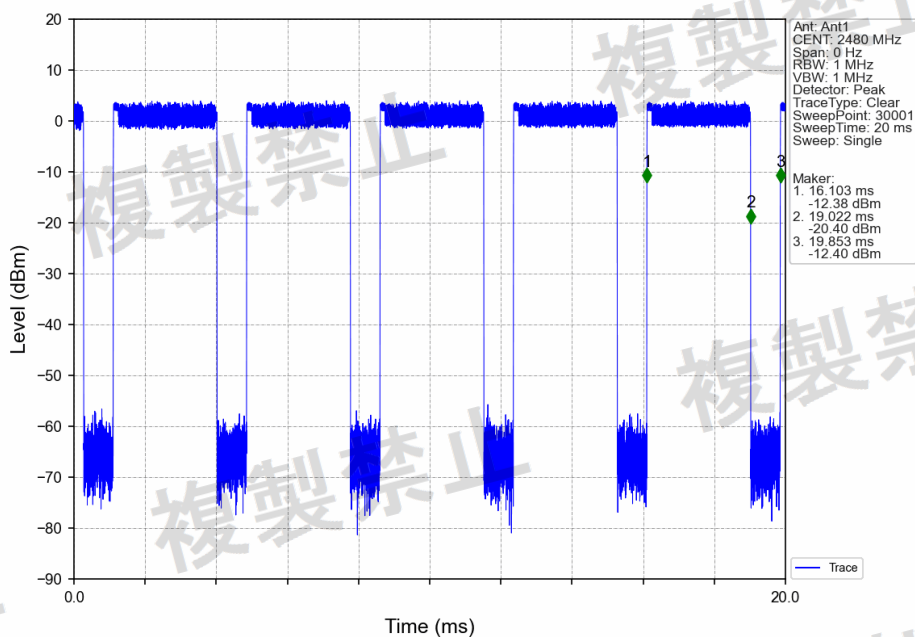
Pi/4DQPSK_2DH1_2480MHz_Ant1_NTNV



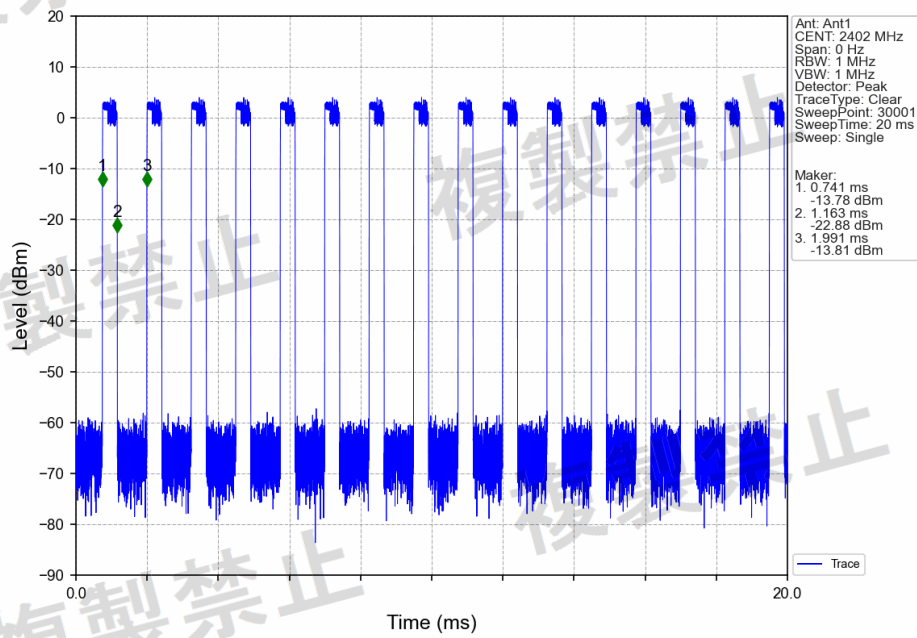
Pi/4DQPSK_2DH3_2480MHz_Ant1_NTNV



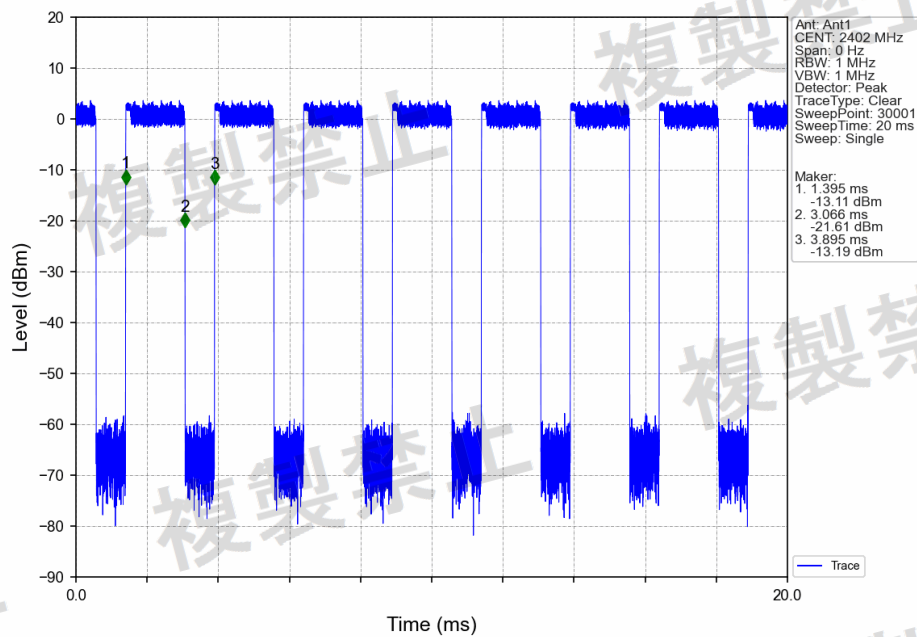
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



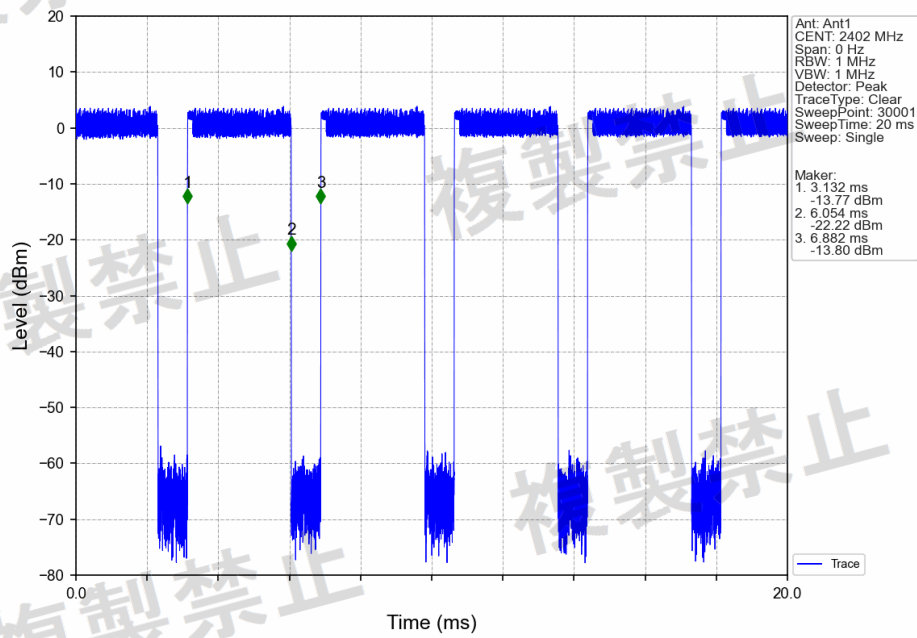
8DPSK 3DH1 2402MHz Ant1 NTV



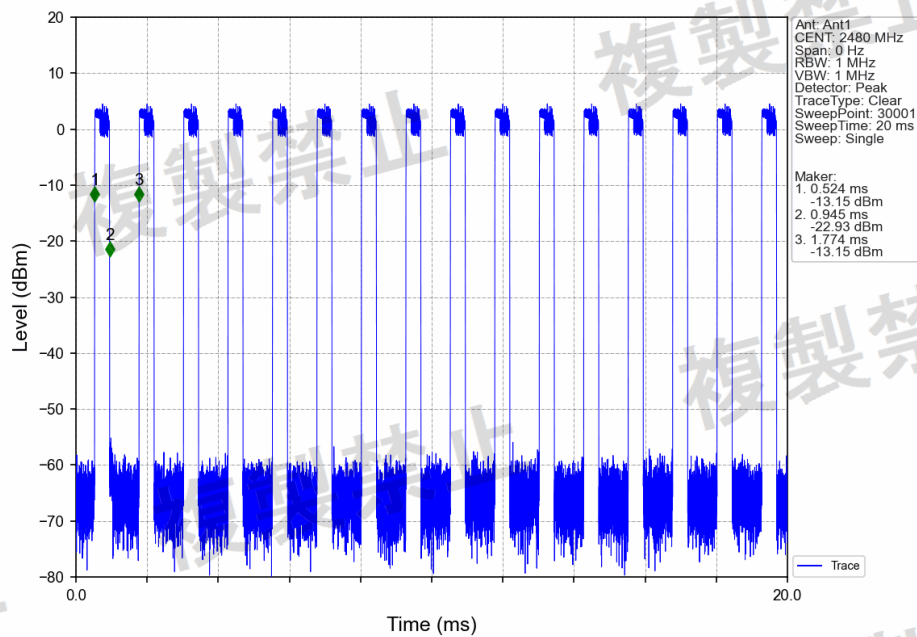
8DPSK 3DH3 2402MHz Ant1 NTV



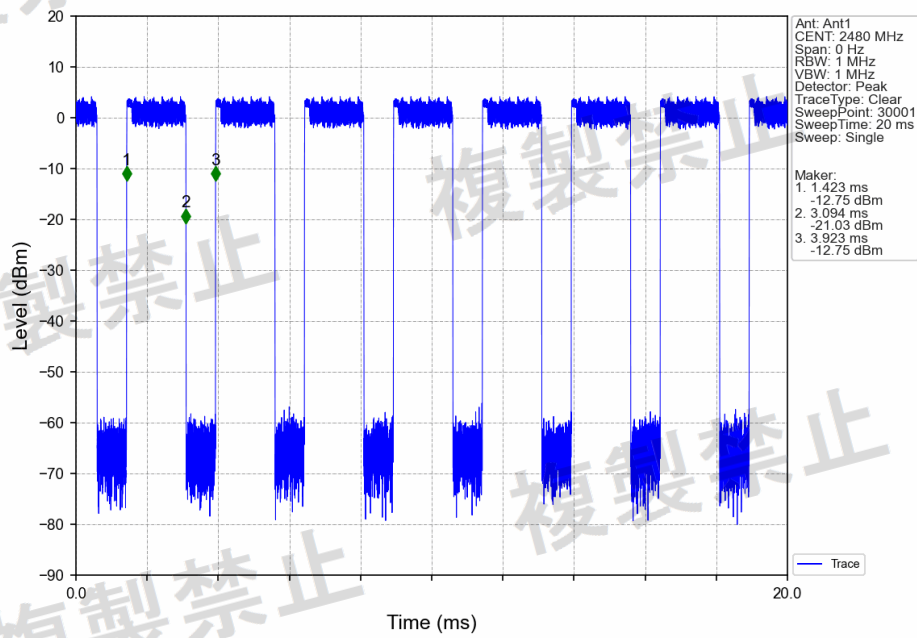
8DPSK 3DH5 2402MHz Ant1 NTV



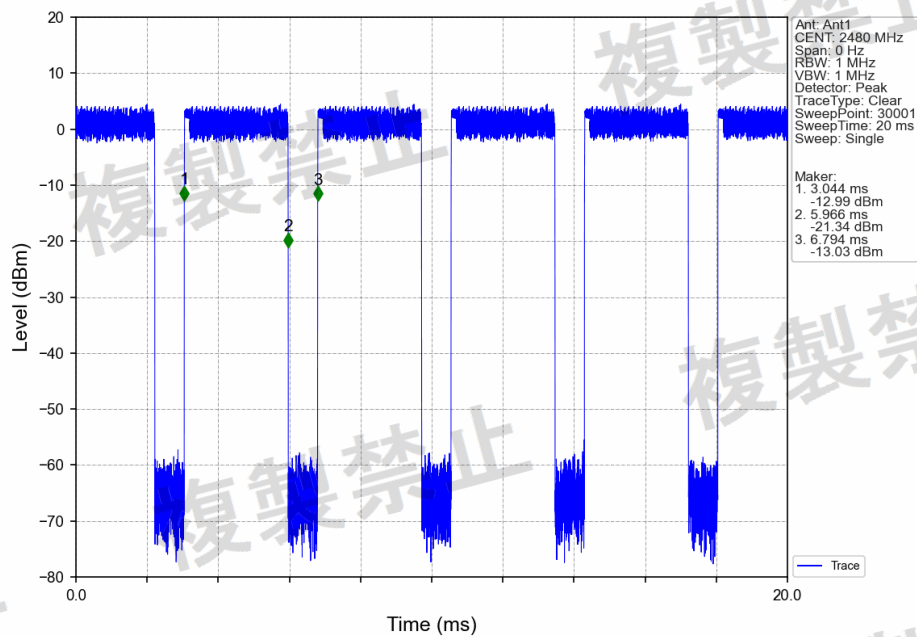
8DPSK 3DH1 2480MHz Ant1 NTV



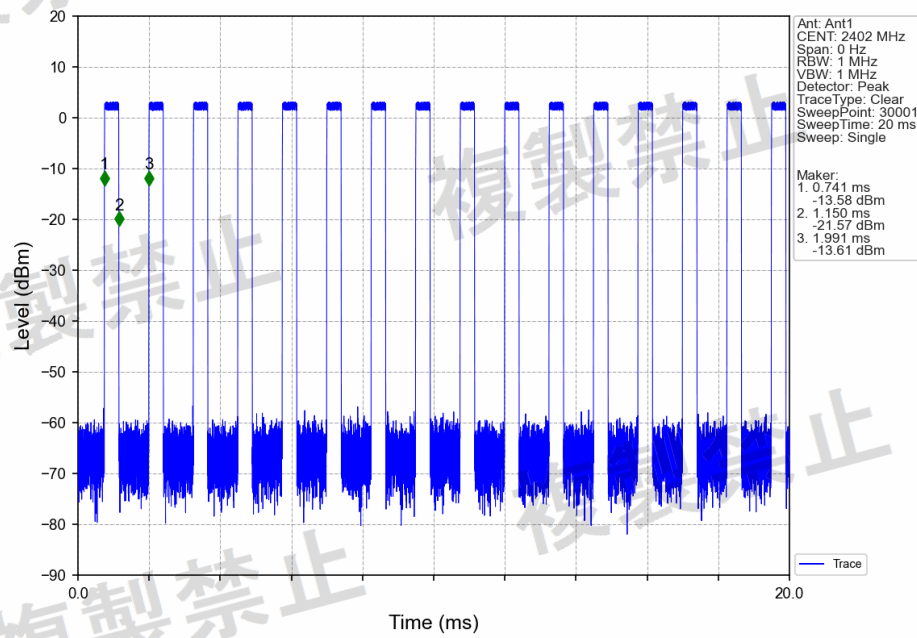
8DPSK 3DH3 2480MHz Ant1 NTV



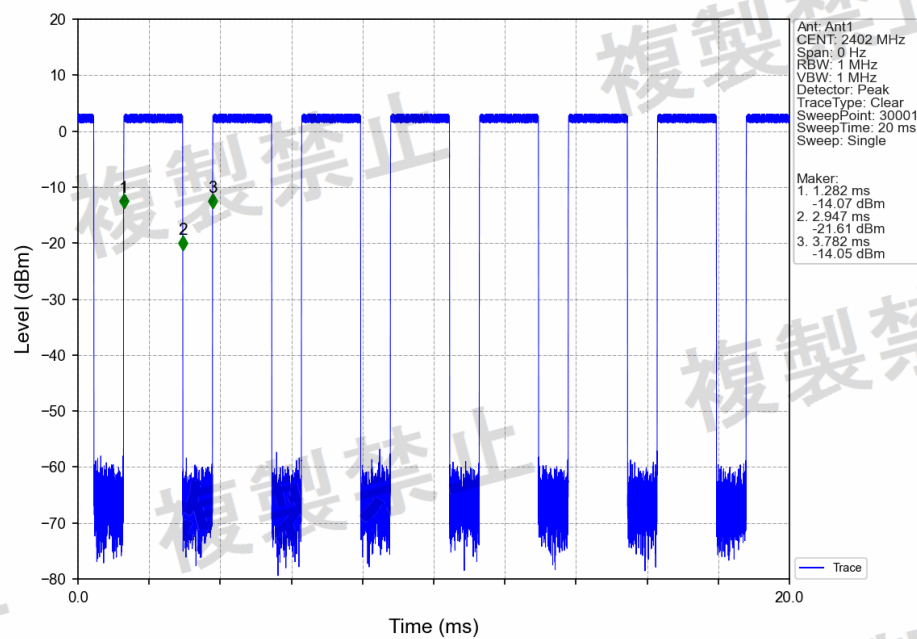
8DPSK 3DH5 2480MHz Ant1 NTV



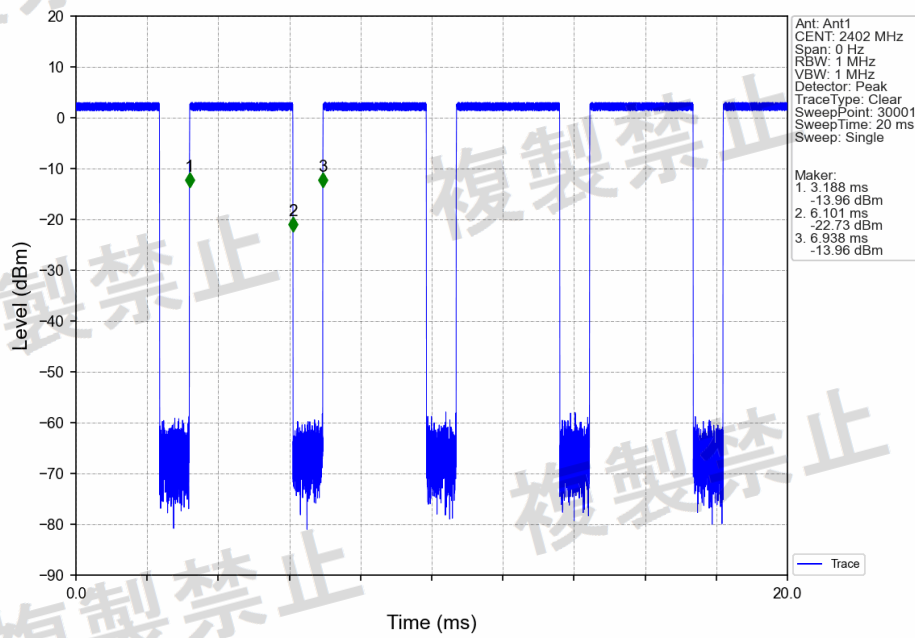
GFSK DH1 2402MHz Ant1 NTLV



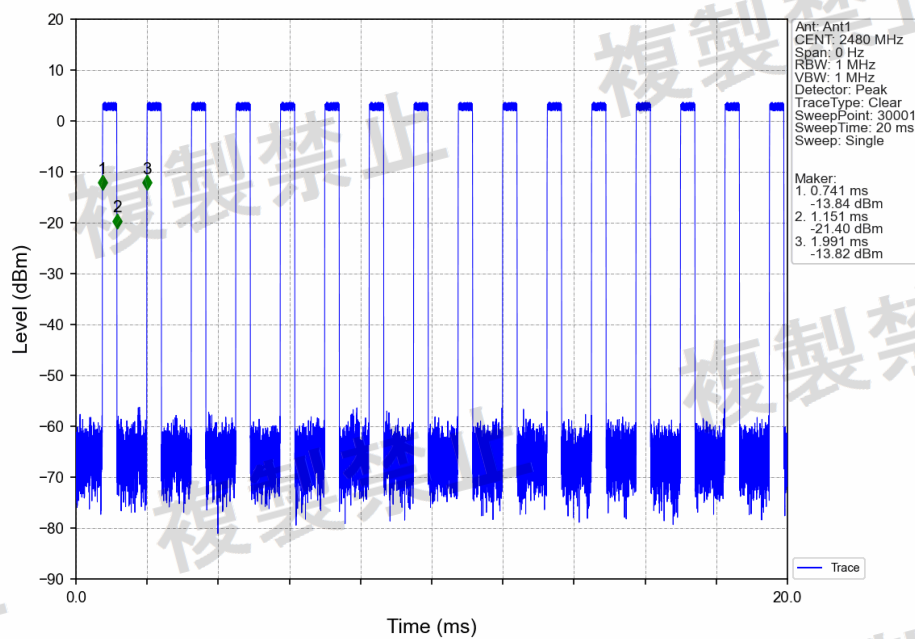
GFSK_DH3_2402MHz_Ant1_NTLV



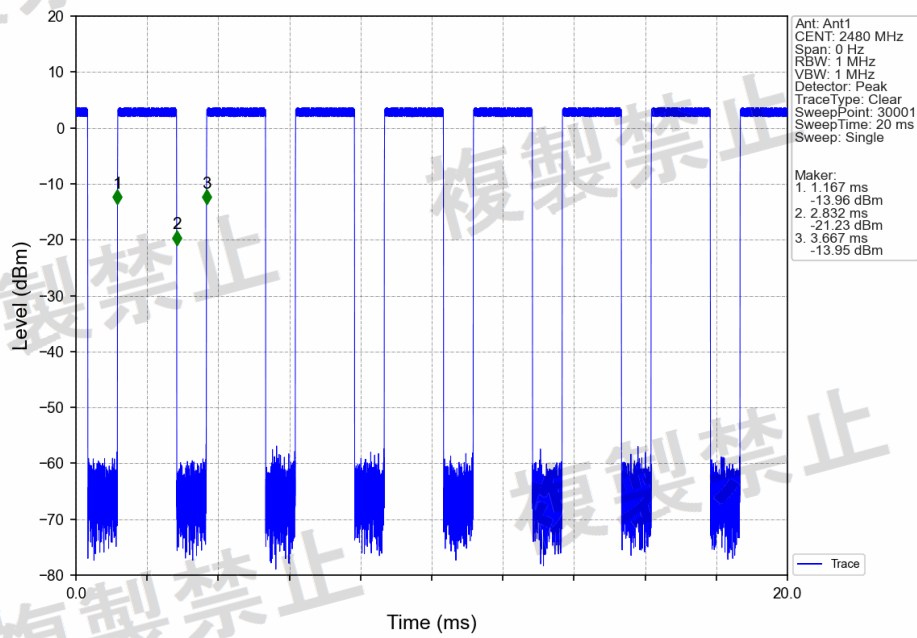
GFSK_DH5_2402MHz_Ant1_NTLV



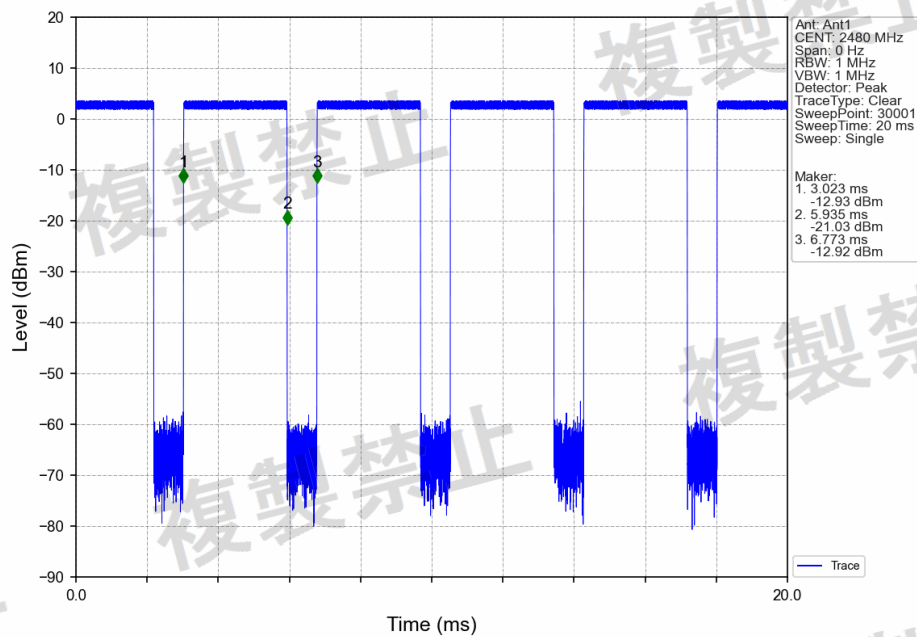
GFSK_DH1_2480MHz_Ant1_NTLV



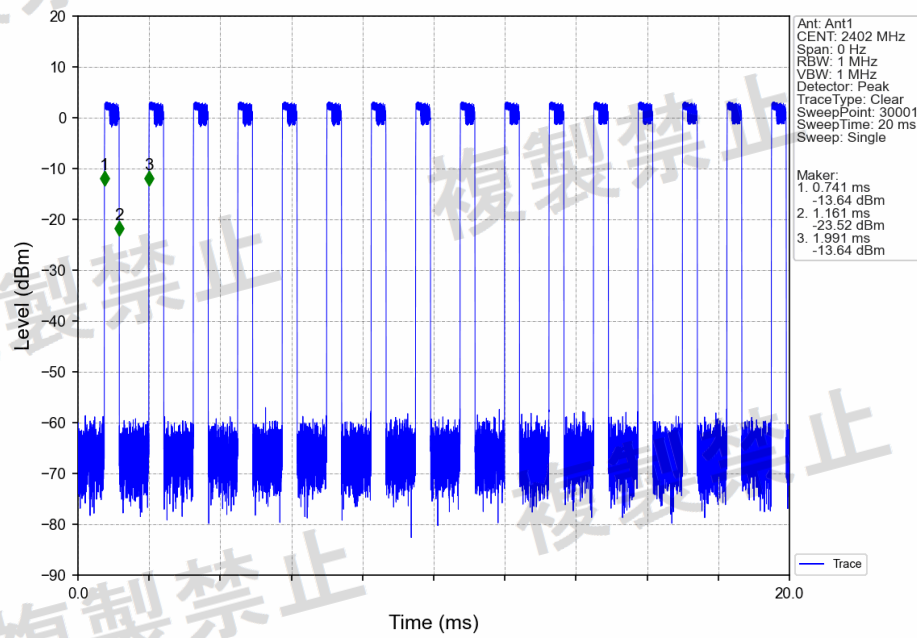
GFSK DH3 2480MHz Ant1 NTLV



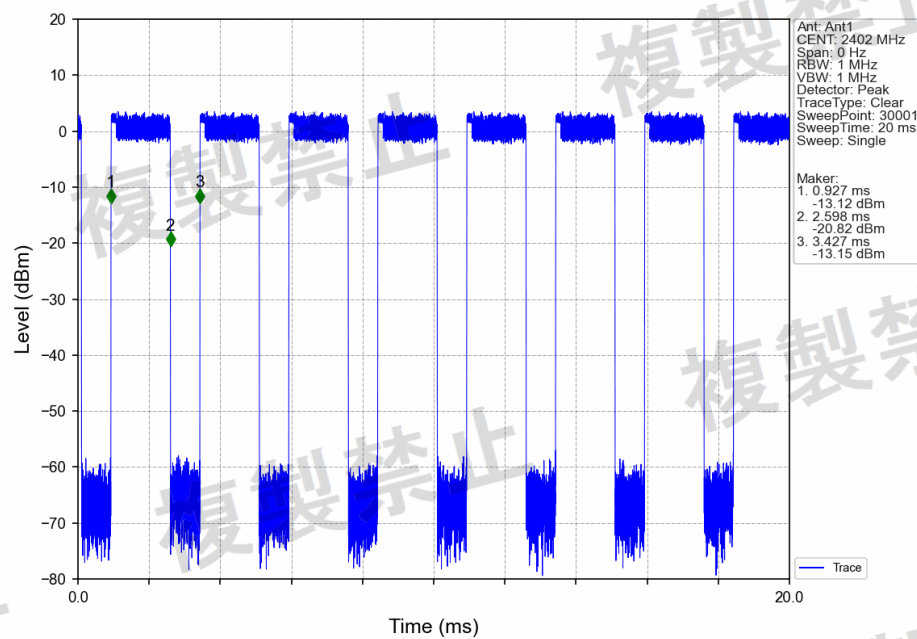
GFSK_DH5_2480MHz_Ant1_NTLV



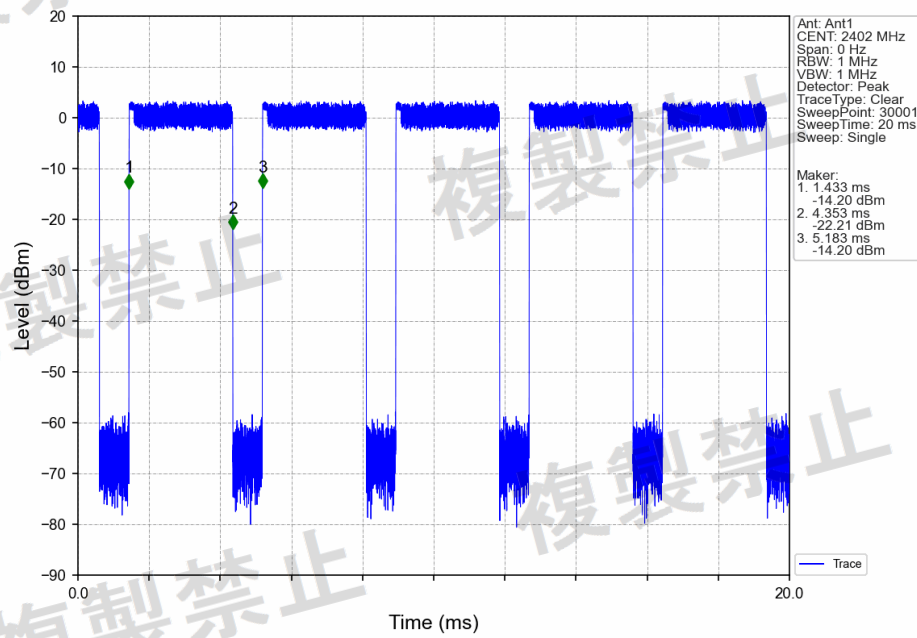
Pi/4DQPSK_2DH1_2402MHz_Ant1_NTLV



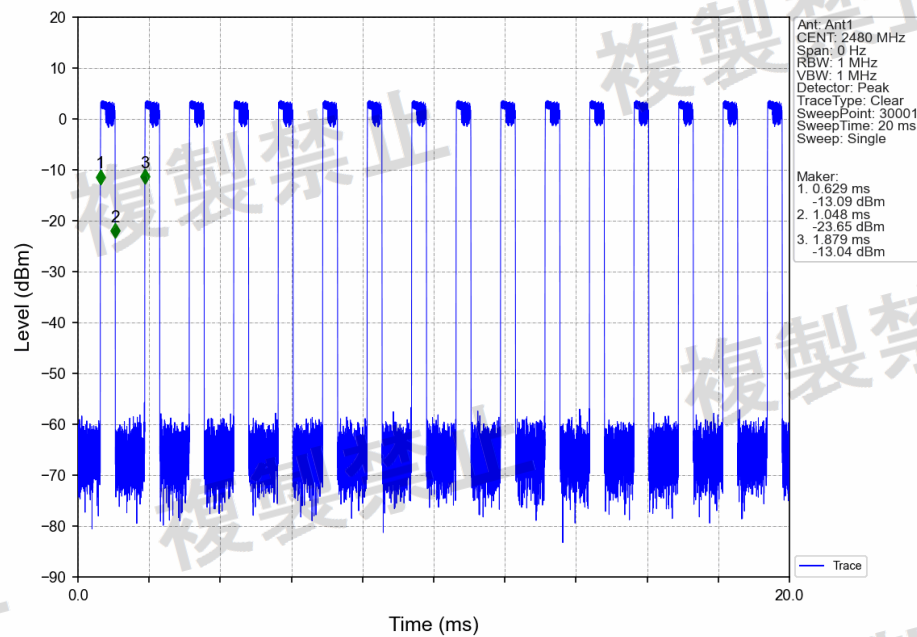
Pi/4DQPSK_2DH3_2402MHz_Ant1_NTLV



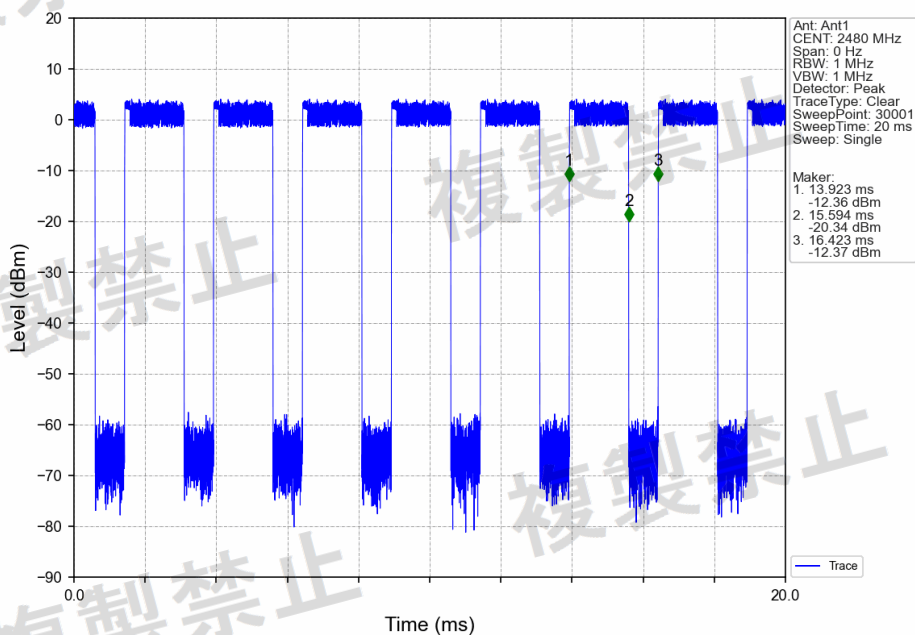
Pi/4DQPSK 2DH5 2402MHz_Ant1_NTLV



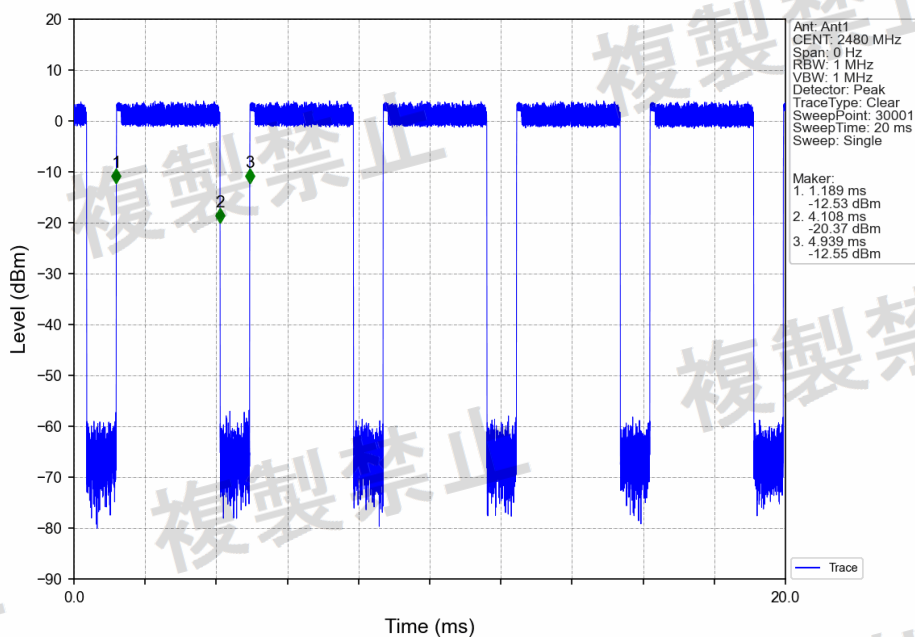
Pi/4DQPSK 2DH1 2480MHz_Ant1_NTLV



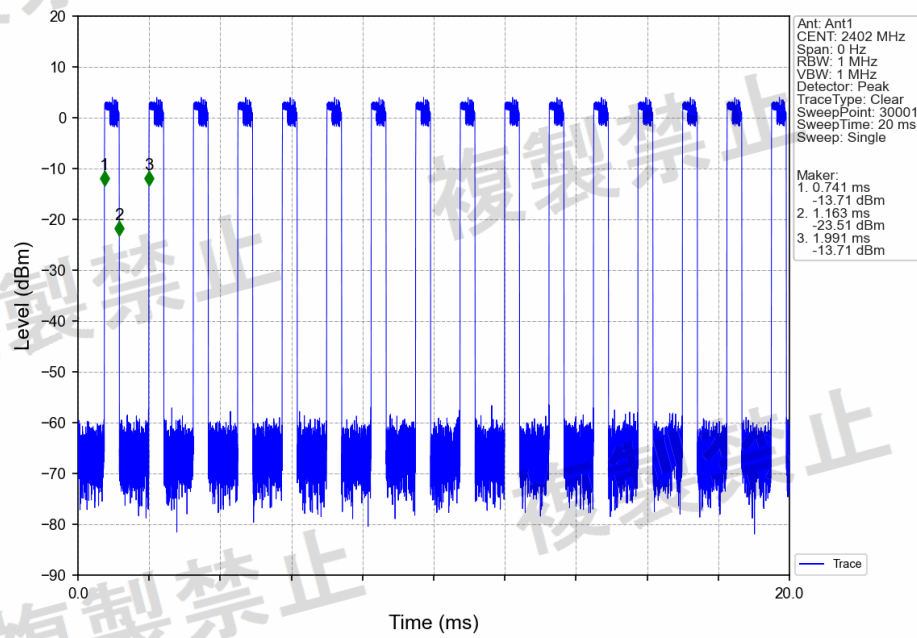
Pi/4DQPSK_2DH3_2480MHz_Ant1_NTLV



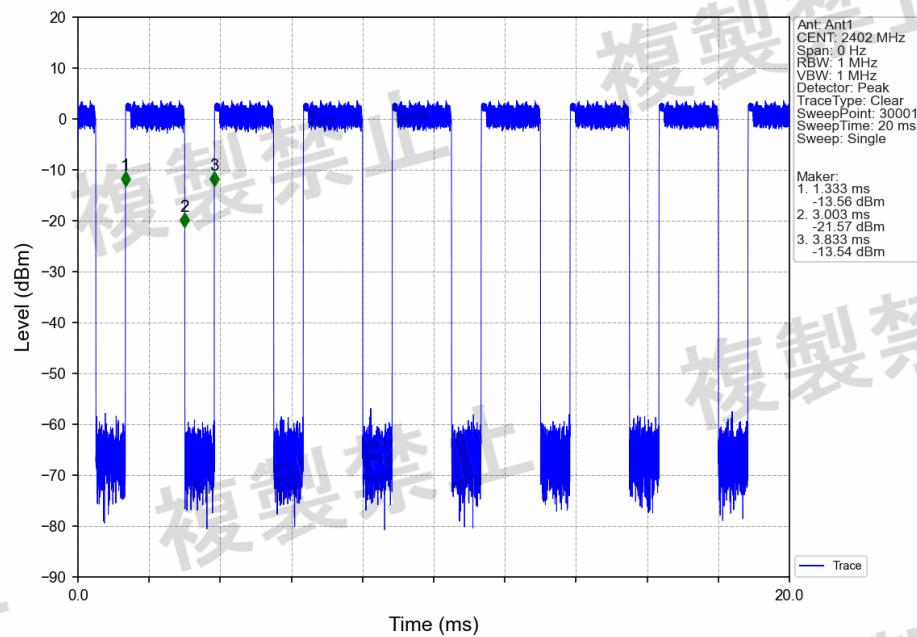
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV



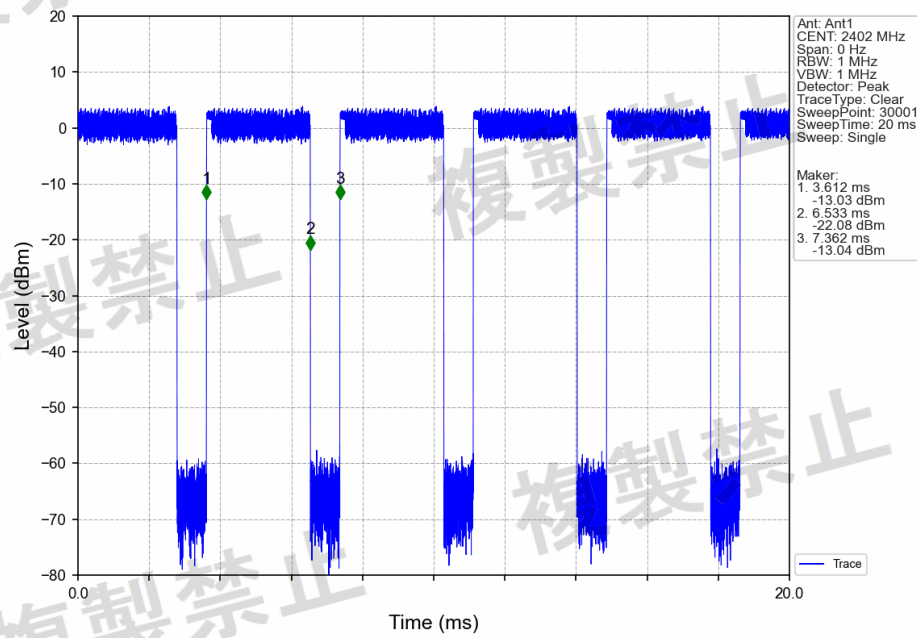
8DPSK 3DH1 2402MHz Ant1 NTLV



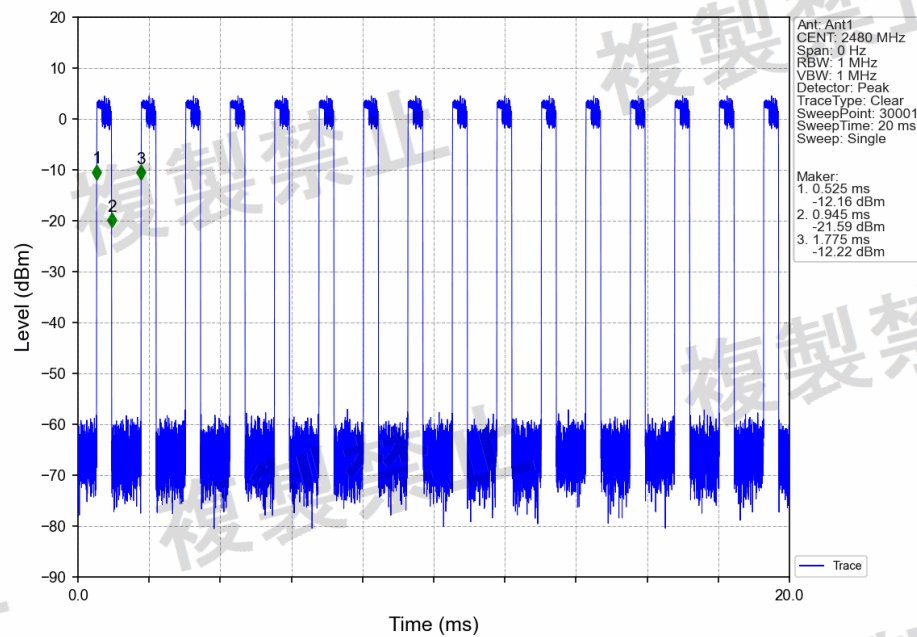
8DPSK 3DH3 2402MHz Ant1 NTLV



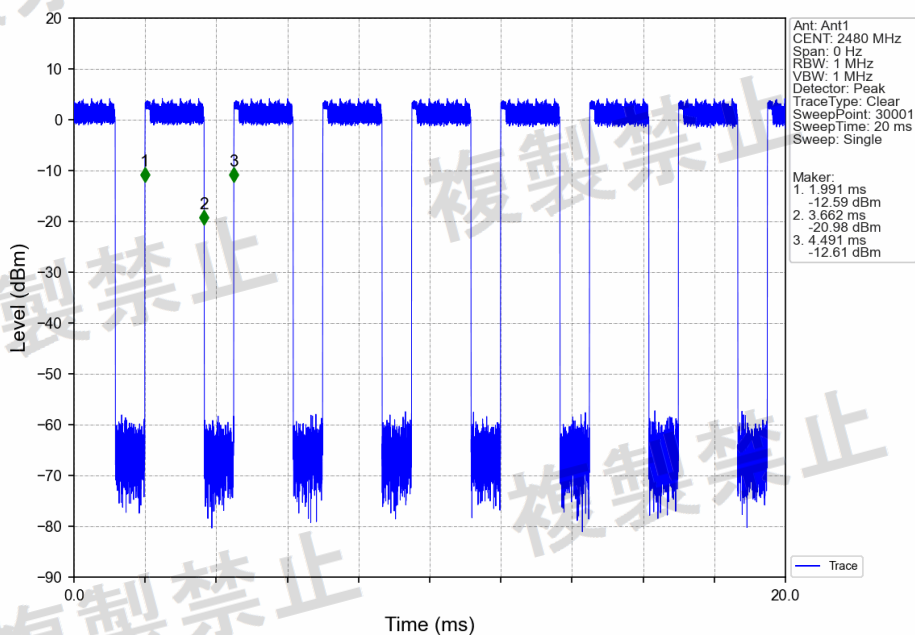
8DPSK 3DH5 2402MHz Ant1 NTLV



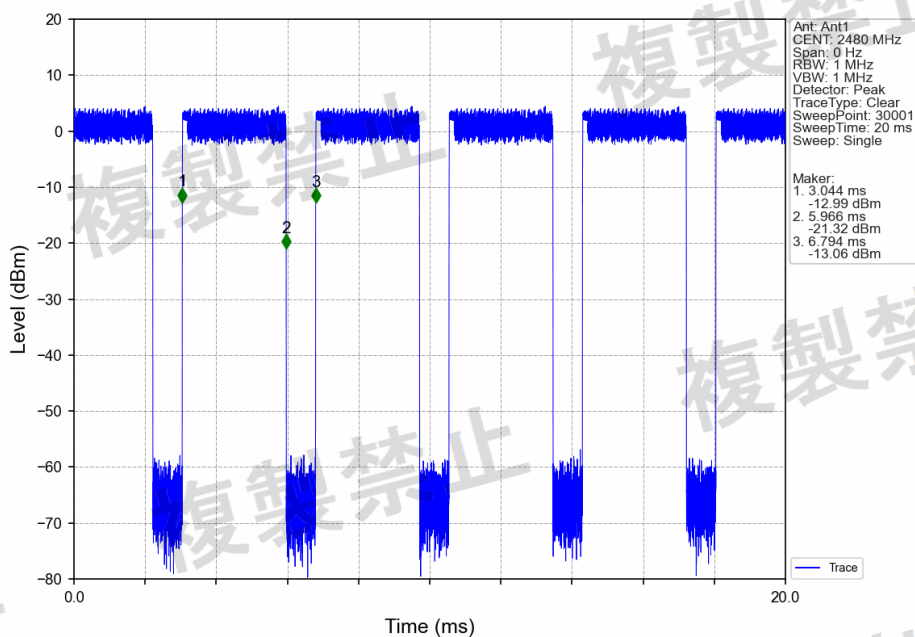
8DPSK 3DH1 2480MHz Ant1 NTLV



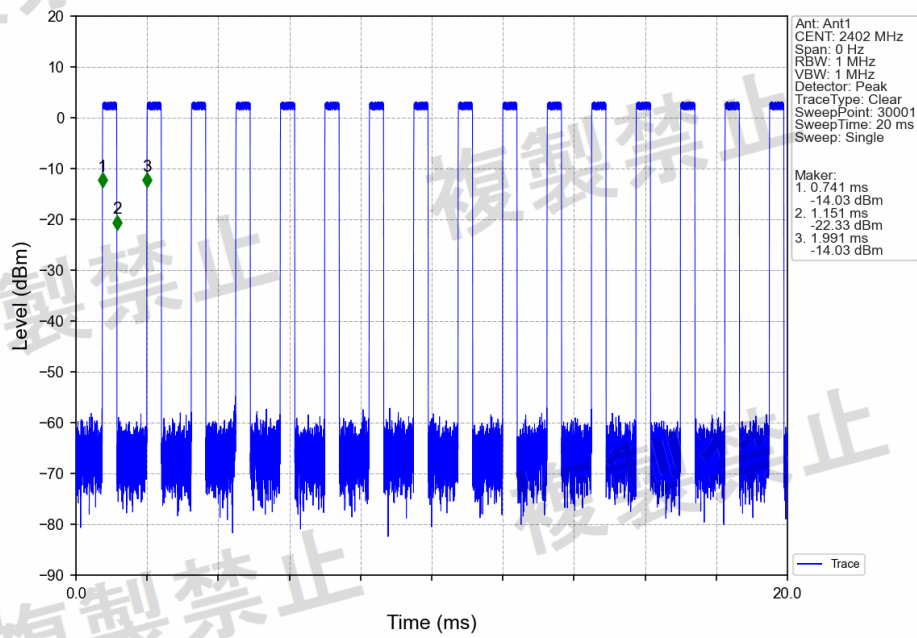
8DPSK 3DH3 2480MHz Ant1 NTLV



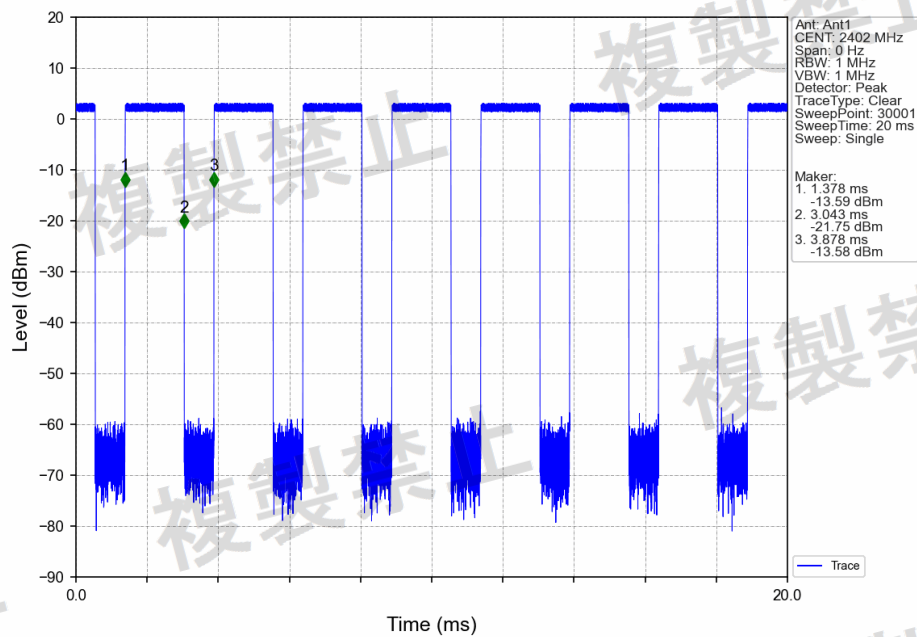
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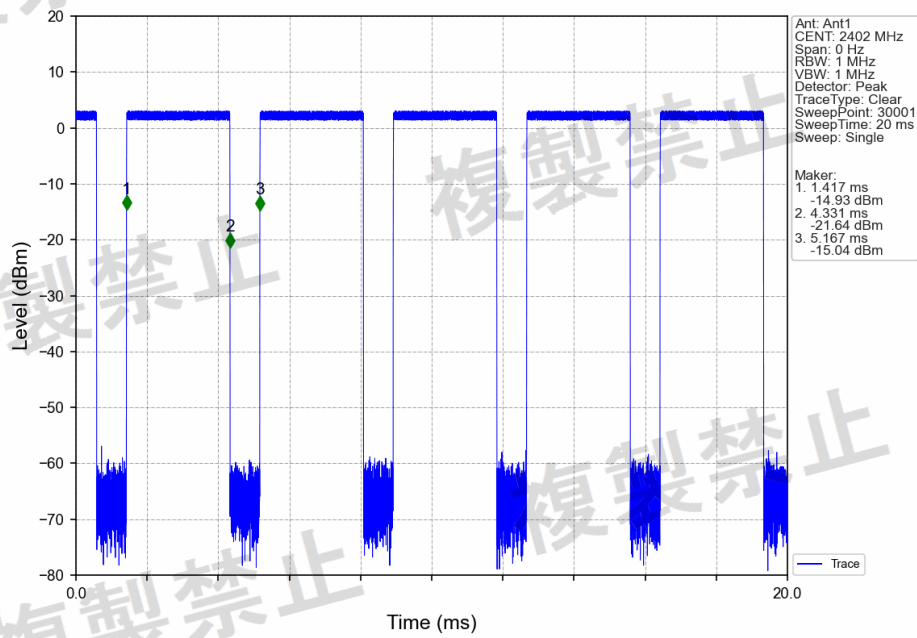
GFSK DH1 2402MHz Ant1 NTHV



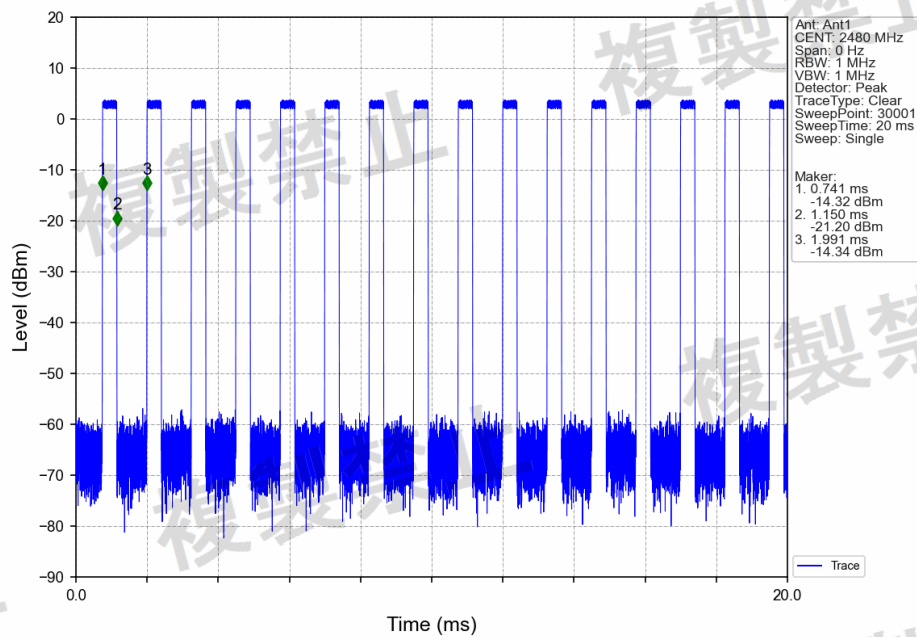
GFSK DH3 2402MHz Ant1 NTHV



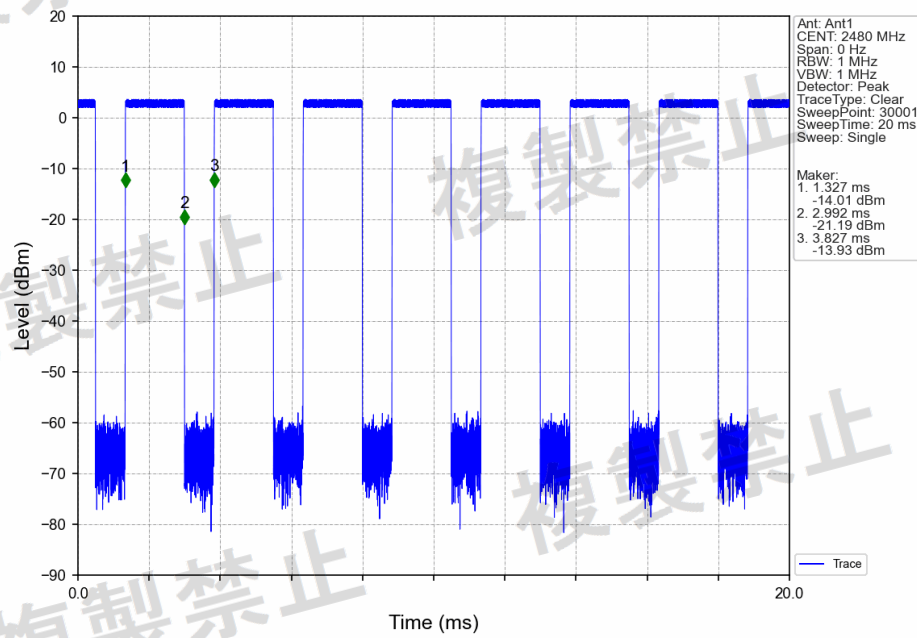
GFSK DH5 2402MHz Ant1 NTHV



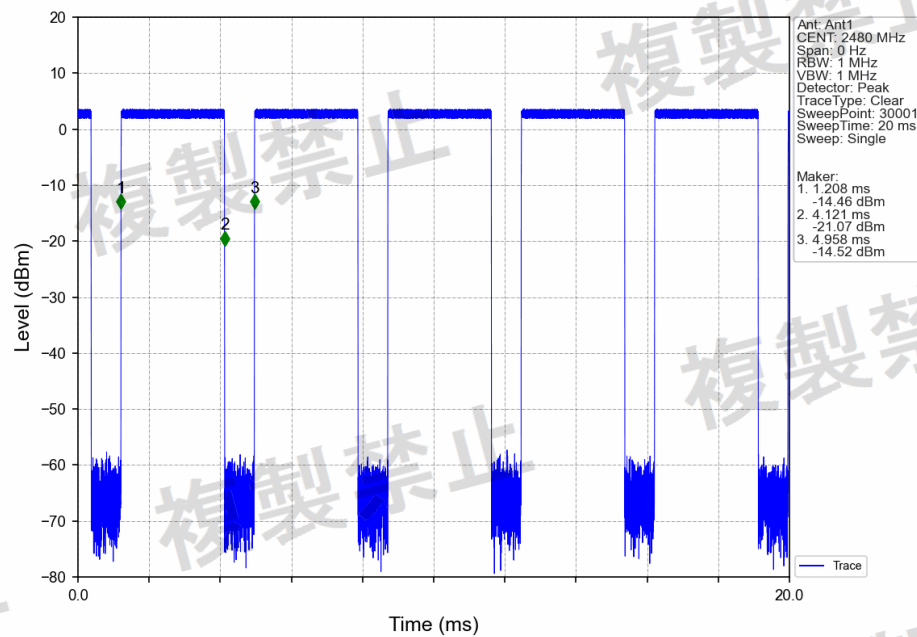
GFSK DH1 2480MHz Ant1 NTHV



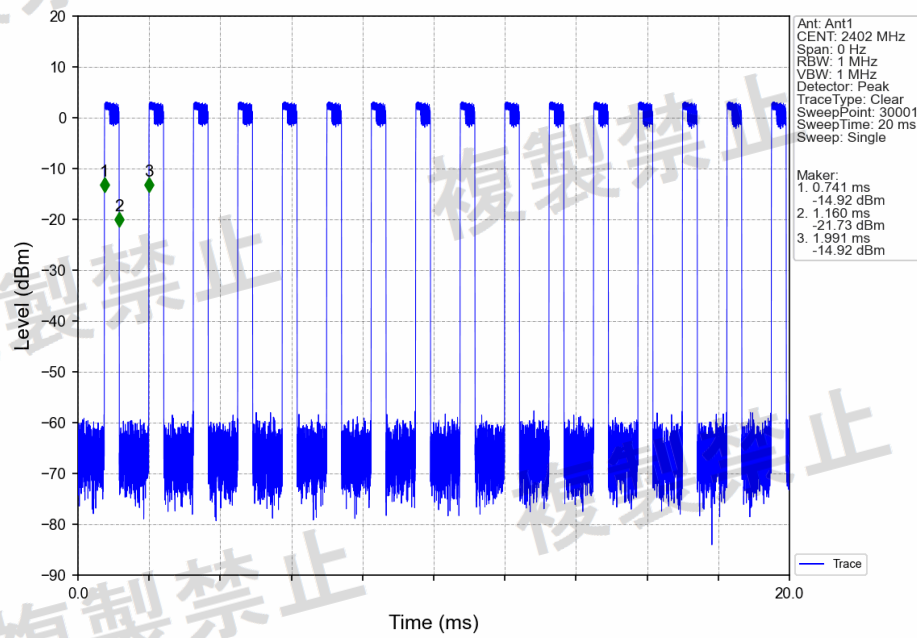
GFSK DH3 2480MHz Ant1 NTHV



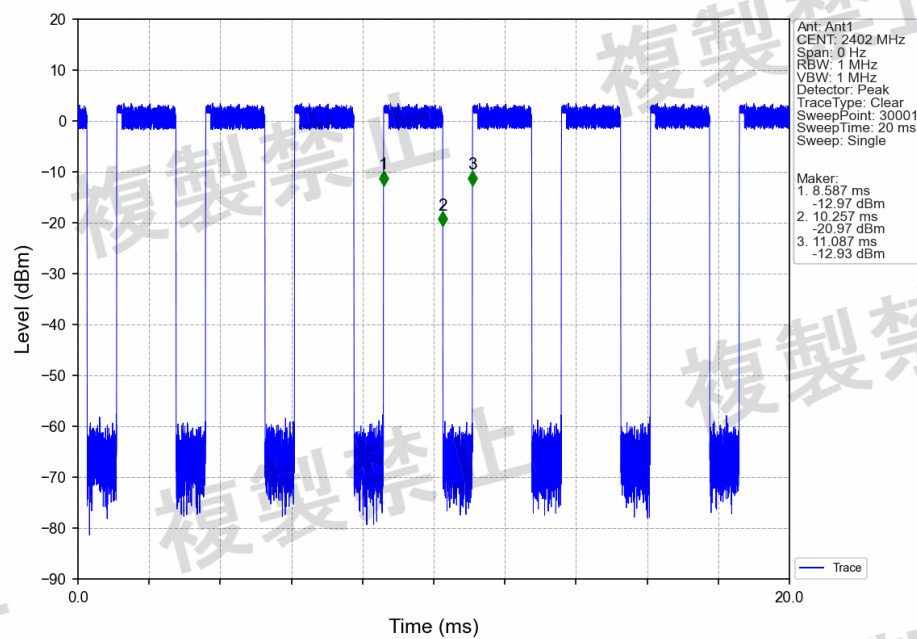
GFSK DH5 2480MHz Ant1 NTHV



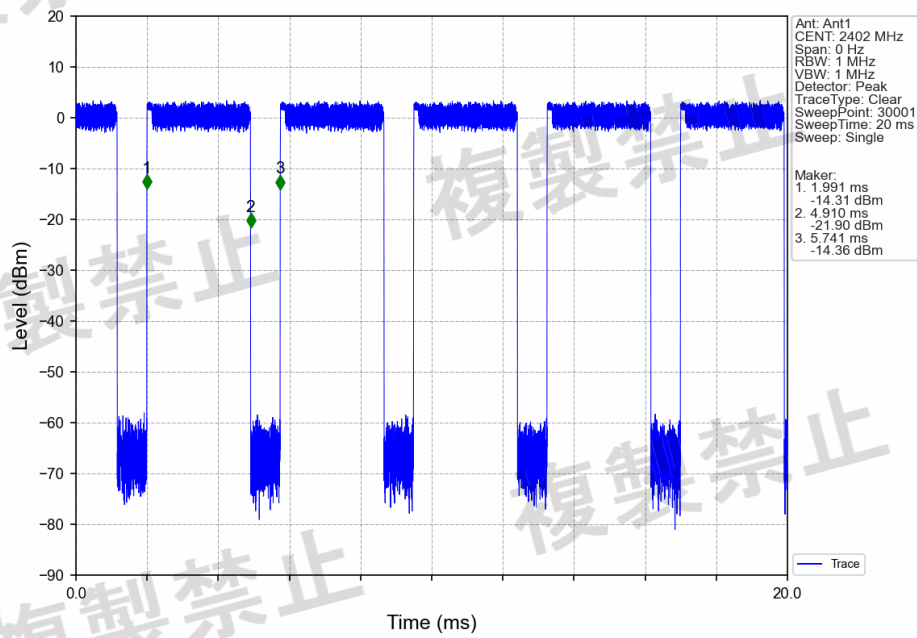
Pi/4DQPSK_2DH1_2402MHz_Ant1_NTHV



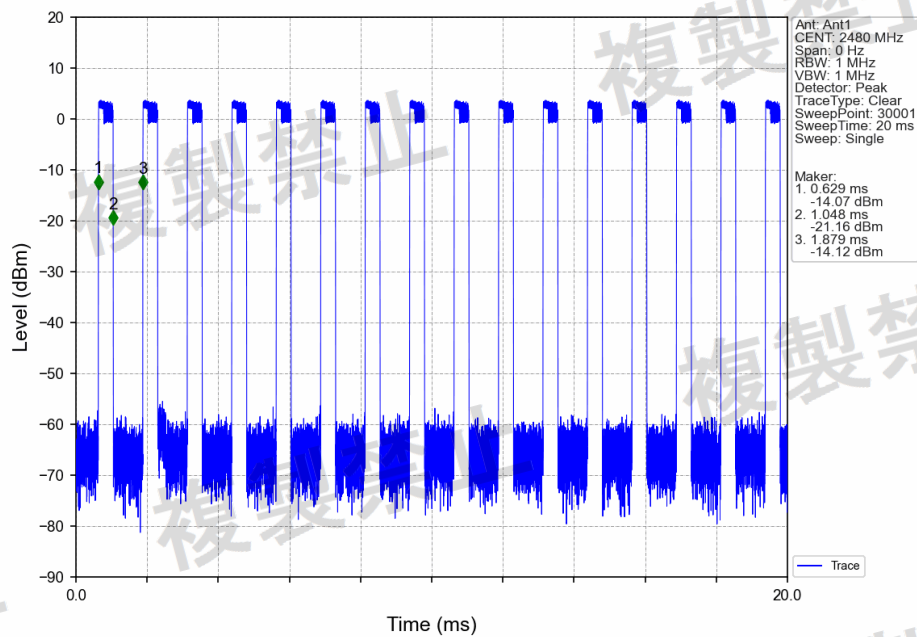
Pi/4DQPSK_2DH3_2402MHz_Ant1_NTHV



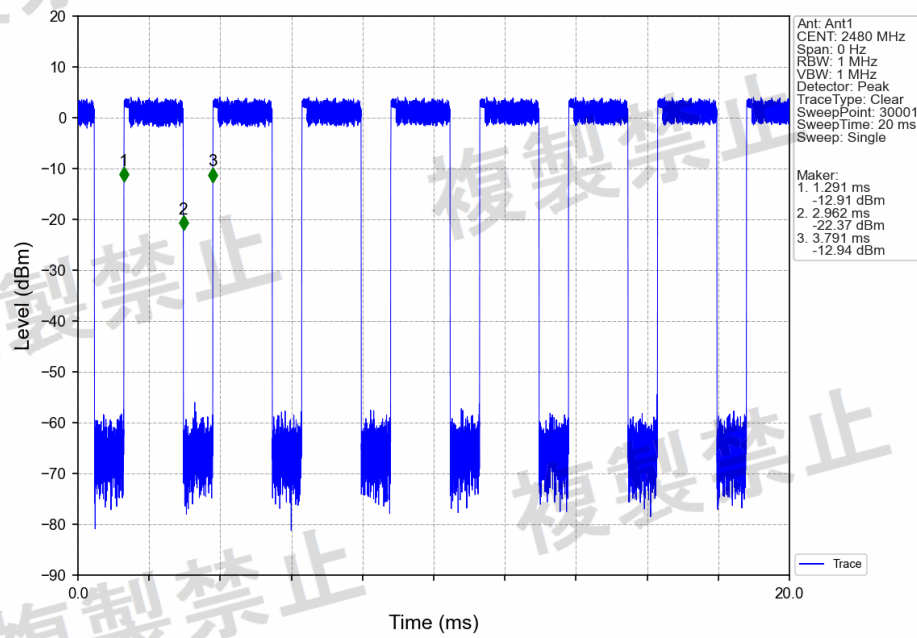
Pi/4DQPSK 2DH5 2402MHz Ant1 NTHV



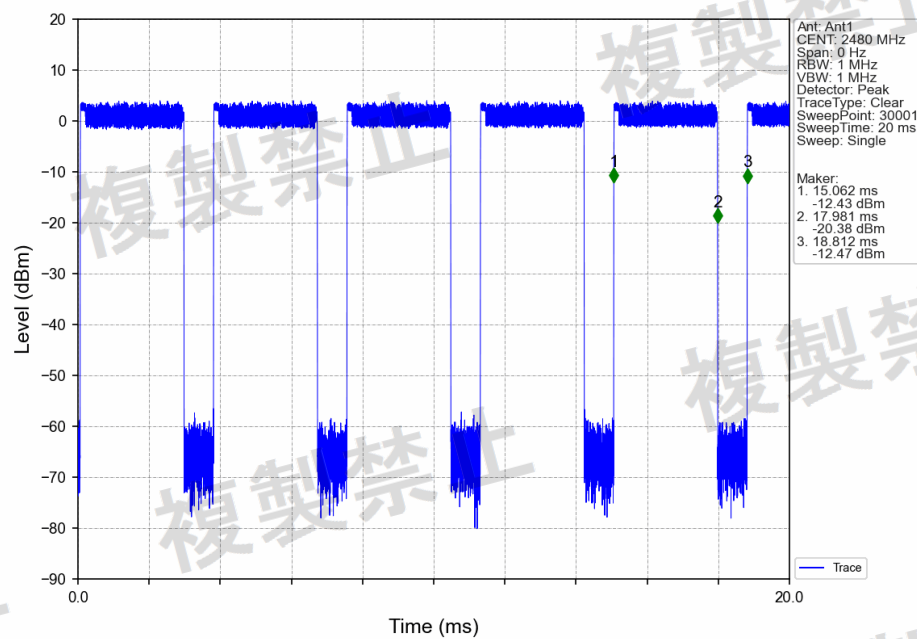
Pi/4DQPSK 2DH1 2480MHz Ant1 NTHV



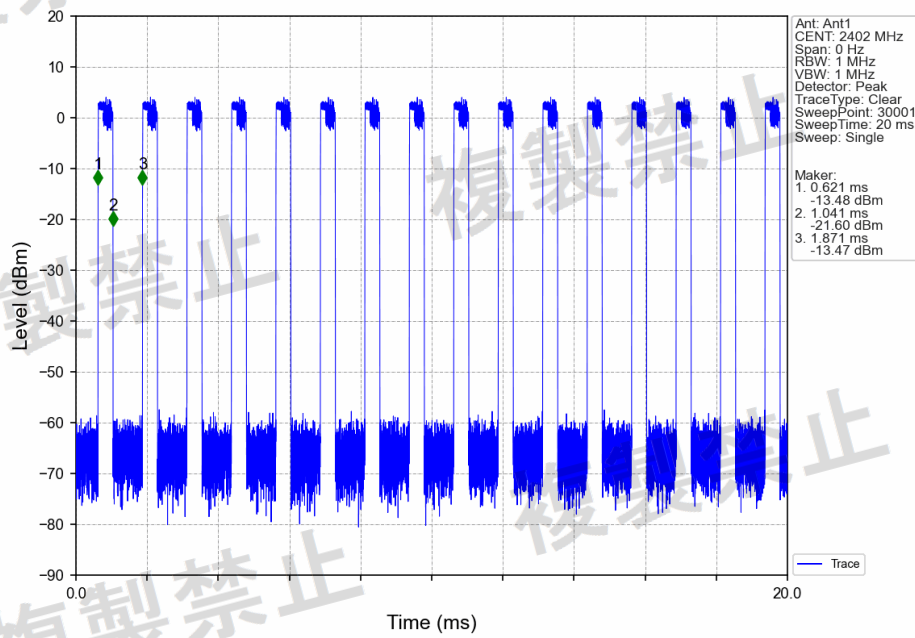
Pi/4DQPSK_2DH3_2480MHz_Ant1_NTHV



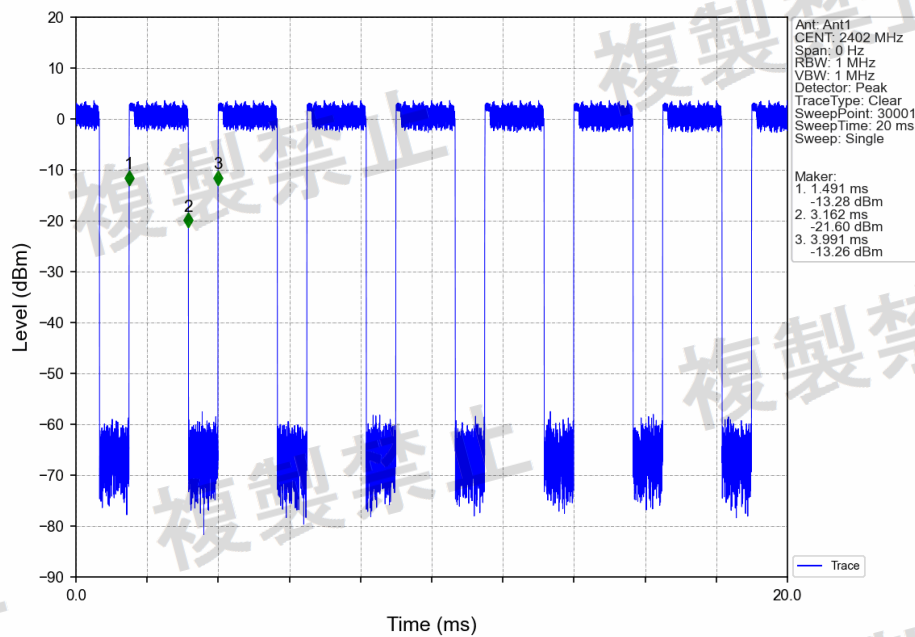
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV



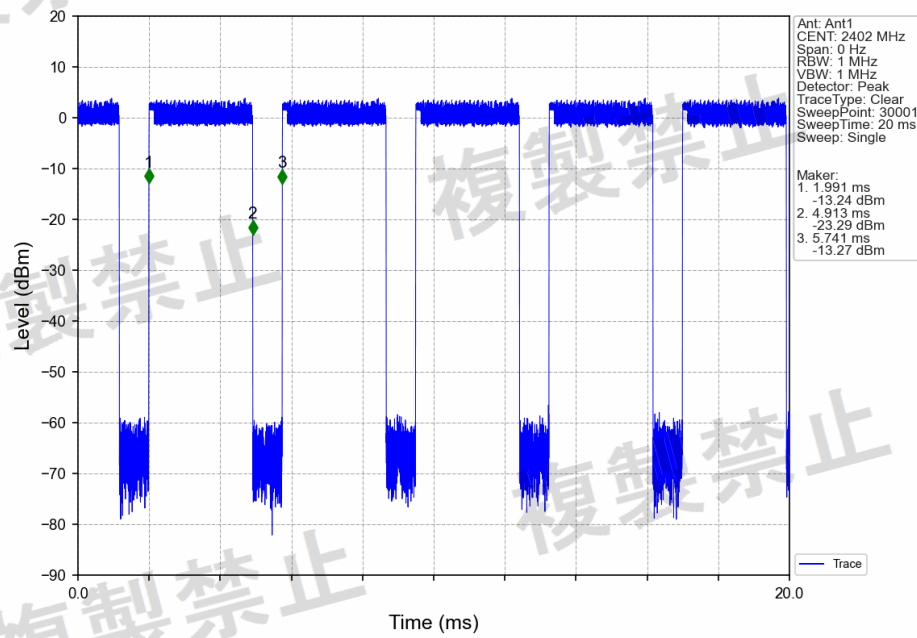
8DPSK 3DH1 2402MHz Ant1 NTHV



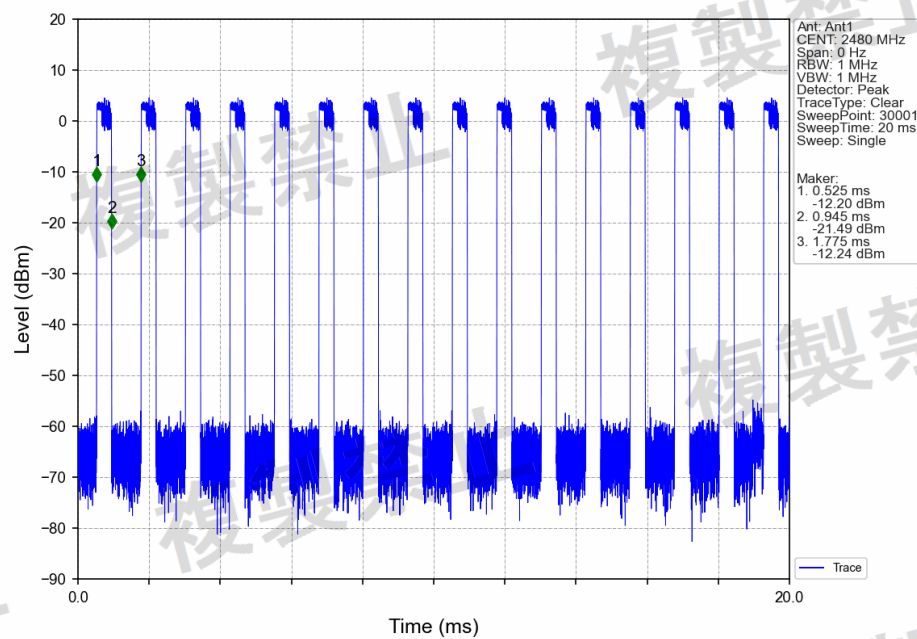
8DPSK 3DH3 2402MHz Ant1 NTHV



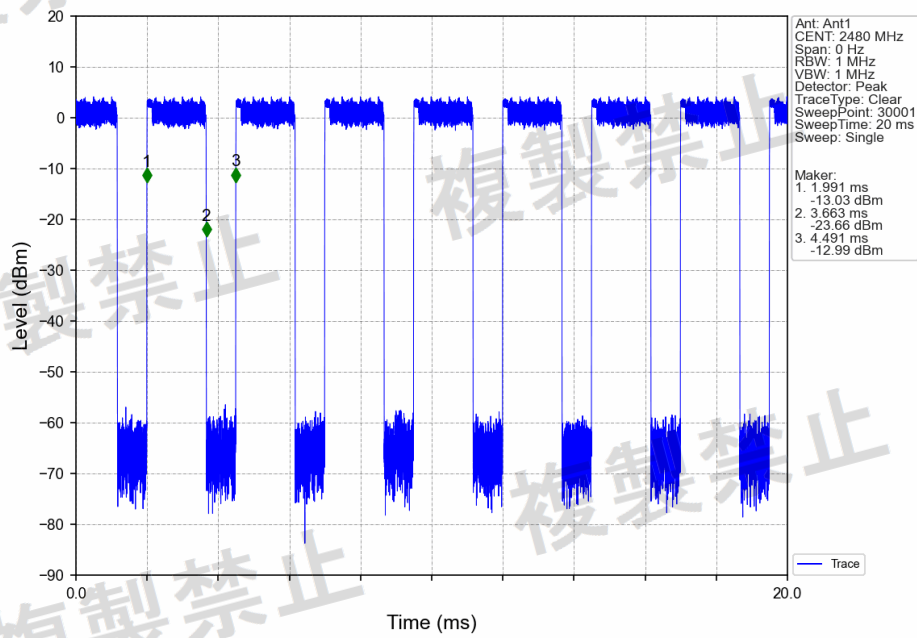
8DPSK 3DH5 2402MHz Ant1 NTHV



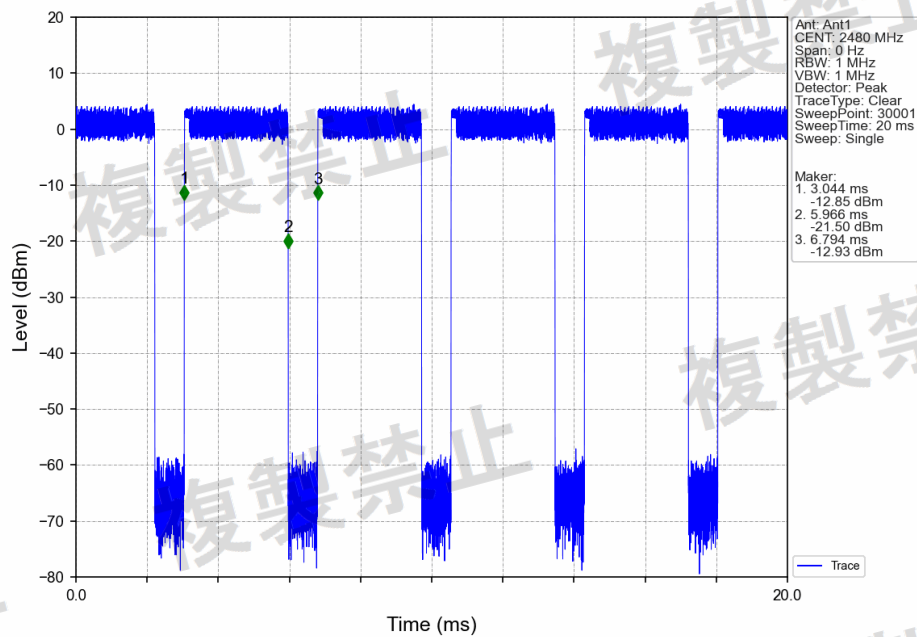
8DPSK 3DH1 2480MHz Ant1 NTHV



8DPSK 3DH3 2480MHz Ant1 NTHV



8DPSK 3DH5 2480MHz Ant1 NTHV



6. Spurious Emission Intensity

6.1 Test Result

6.1.1 TxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	2214.5	-50.18	0.010	/	/	2.5	Pass
				2387	2400	2399.987	-41.35	0.073	/	/	25	Pass
				2483.5	2496.5	2483.89	-44.79	0.033	/	/	25	Pass
				2496.5	12500	3401.5	-39.02	0.125	/	/	2.5	Pass
		2480	1	30	2387	2286	-49.65	0.011	/	/	2.5	Pass
				2387	2400	2396.971	-55.87	0.003	/	/	25	Pass
				2483.5	2496.5	2483.552	-43.03	0.050	/	/	25	Pass
				2496.5	12500	4960.5	-43.28	0.047	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2208	-49.97	0.010	/	/	2.5	Pass
				2387	2400	2399.987	-28.96	1.271	/	/	25	Pass
				2483.5	2496.5	2493.887	-55.25	0.003	/	/	25	Pass
				2496.5	12500	4805	-44.99	0.032	/	/	2.5	Pass
		2480	1	30	2387	1753	-43.82	0.041	/	/	2.5	Pass
				2387	2400	2396.958	-55.35	0.003	/	/	25	Pass
				2483.5	2496.5	2483.734	-39.13	0.122	/	/	25	Pass
				2496.5	12500	4961	-44.37	0.037	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2208	-49.03	0.013	/	/	2.5	Pass
				2387	2400	2399.987	-29.44	1.138	/	/	25	Pass
				2483.5	2496.5	2486.282	-55.04	0.003	/	/	25	Pass
				2496.5	12500	4804	-45.38	0.029	/	/	2.5	Pass
		2480	1	30	2387	2285	-50.51	0.009	/	/	2.5	Pass
				2387	2400	2394.332	-56.10	0.002	/	/	25	Pass
				2483.5	2496.5	2483.591	-39.46	0.113	/	/	25	Pass
				2496.5	12500	4960.5	-43.14	0.049	/	/	2.5	Pass

6.1.2 TxSe_NTLV

NTLV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	1765	-41.37	0.073	/	/	2.5	Pass
				2387	2400	2399.922	-33.43	0.454	/	/	25	Pass
				2483.5	2496.5	2487.842	-55.49	0.003	/	/	25	Pass
				2496.5	12500	4805	-44.43	0.036	/	/	2.5	Pass
		2480	1	30	2387	1764.5	-44.45	0.036	/	/	2.5	Pass
				2387	2400	2396.36	-55.69	0.003	/	/	25	Pass
				2483.5	2496.5	2483.929	-43.22	0.048	/	/	25	Pass
				2496.5	12500	4960.5	-43.45	0.045	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2208	-49.65	0.011	/	/	2.5	Pass
				2387	2400	2399.987	-29.75	1.059	/	/	25	Pass
				2483.5	2496.5	2488.57	-55.39	0.003	/	/	25	Pass

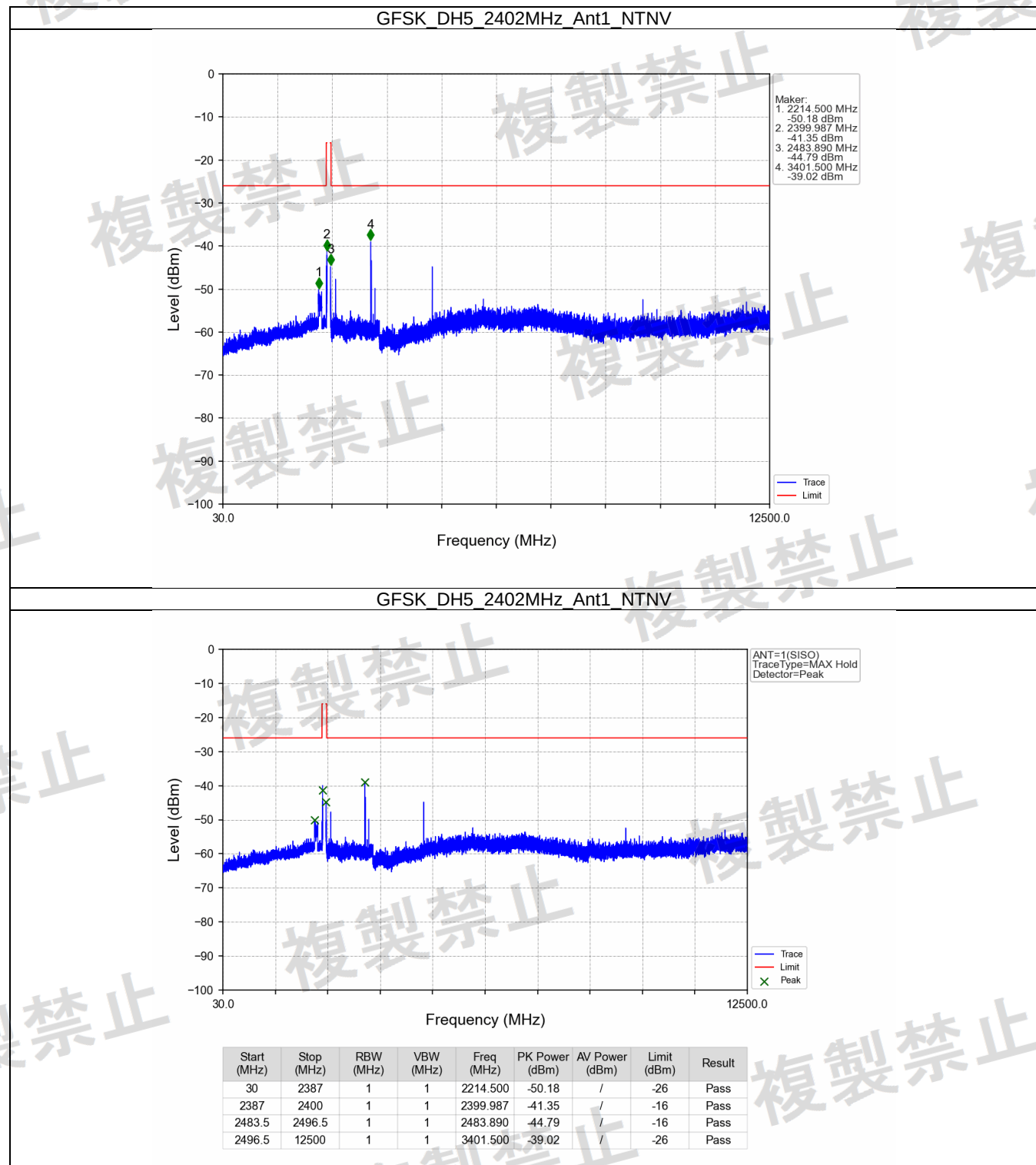
8DPSK	SISO	2480	1	2496.5	12500	4805	-44.13	0.039	/	/	2.5	Pass
				30	2387	1754	-43.02	0.050	/	/	2.5	Pass
				2387	2400	2393.279	-56.16	0.002	/	/	25	Pass
				2483.5	2496.5	2483.552	-38.94	0.128	/	/	25	Pass
				2496.5	12500	4960.5	-44.43	0.036	/	/	2.5	Pass
		2402	1	30	2387	2207.5	-50.86	0.008	/	/	2.5	Pass
				2387	2400	2399.987	-28.91	1.285	/	/	25	Pass
				2483.5	2496.5	2488.206	-54.86	0.003	/	/	25	Pass
				2496.5	12500	4804.5	-45.40	0.029	/	/	2.5	Pass
				30	2387	2286	-50.04	0.010	/	/	2.5	Pass
		2480	1	2387	2400	2390.484	-55.69	0.003	/	/	25	Pass
				2483.5	2496.5	2483.539	-38.53	0.140	/	/	25	Pass
				2496.5	12500	4960	-43.45	0.045	/	/	2.5	Pass

6.1.3 TxSe_NTHV

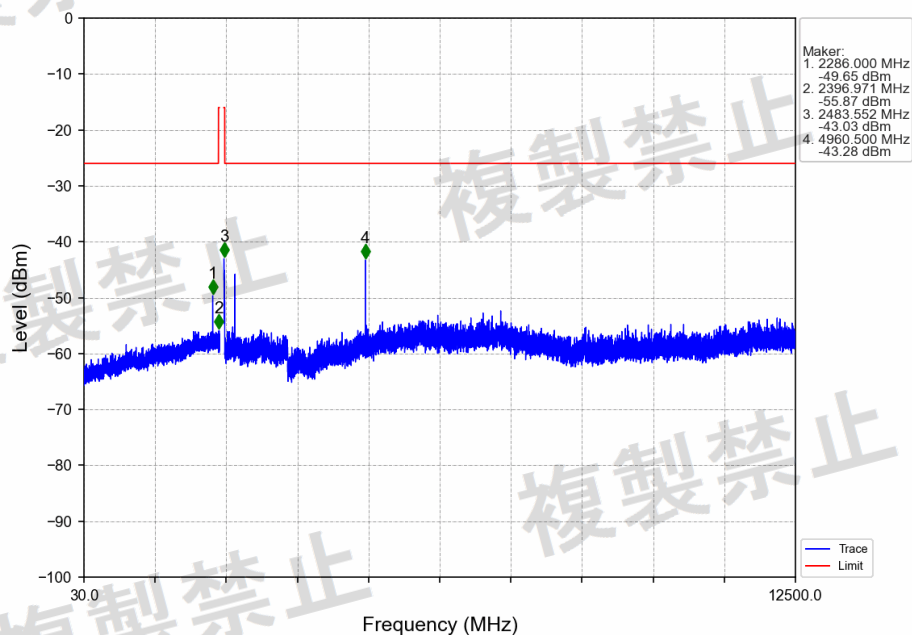
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	1765	-41.64	0.069	/	/	2.5	Pass
				2387	2400	2399.948	-33.25	0.473	/	/	25	Pass
				2483.5	2496.5	2486.399	-55.16	0.003	/	/	25	Pass
				2496.5	12500	4805	-44.20	0.038	/	/	2.5	Pass
		2480	1	30	2387	2286	-49.83	0.010	/	/	2.5	Pass
				2387	2400	2395.775	-55.27	0.003	/	/	25	Pass
				2483.5	2496.5	2484.696	-44.12	0.039	/	/	25	Pass
				2496.5	12500	4960.5	-43.29	0.047	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	1765	-48.69	0.014	/	/	2.5	Pass
				2387	2400	2399.987	-29.44	1.138	/	/	25	Pass
				2483.5	2496.5	2486.698	-54.81	0.003	/	/	25	Pass
				2496.5	12500	3420.5	-41.26	0.075	/	/	2.5	Pass
		2480	1	30	2387	2285.5	-50.51	0.009	/	/	2.5	Pass
				2387	2400	2389.873	-55.50	0.003	/	/	25	Pass
				2483.5	2496.5	2483.604	-38.64	0.137	/	/	25	Pass
				2496.5	12500	4960.5	-43.19	0.048	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	1753	-40.16	0.096	/	/	2.5	Pass
				2387	2400	2399.974	-29.43	1.140	/	/	25	Pass
				2483.5	2496.5	2492.574	-55.34	0.003	/	/	25	Pass
				2496.5	12500	4805	-45.72	0.027	/	/	2.5	Pass
		2480	1	30	2387	1753	-38.95	0.127	/	/	2.5	Pass
				2387	2400	2398.362	-55.82	0.003	/	/	25	Pass
				2483.5	2496.5	2483.604	-39.13	0.122	/	/	25	Pass
				2496.5	12500	2676.5	-36.23	0.238	/	/	2.5	Pass

6.2 Test Graph

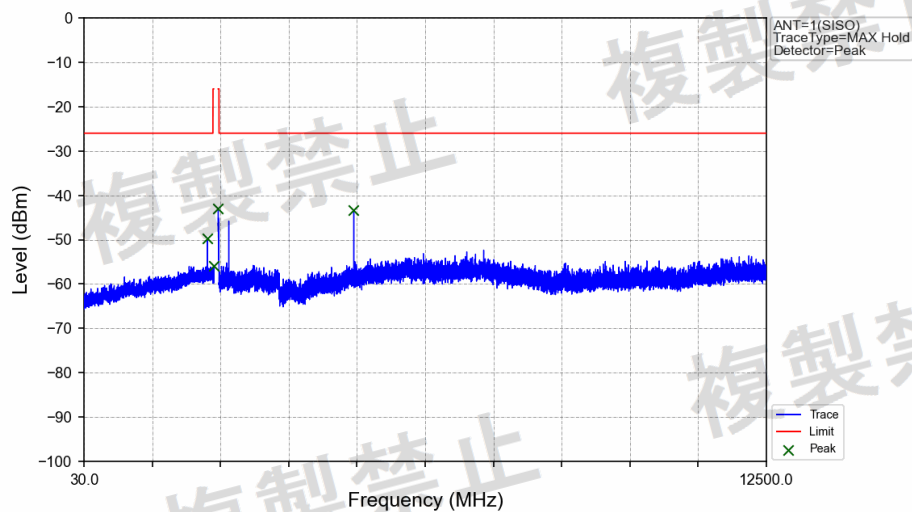
6.2.1 TxSe_NTNV



GFSK DH5 2480MHz Ant1 NTN

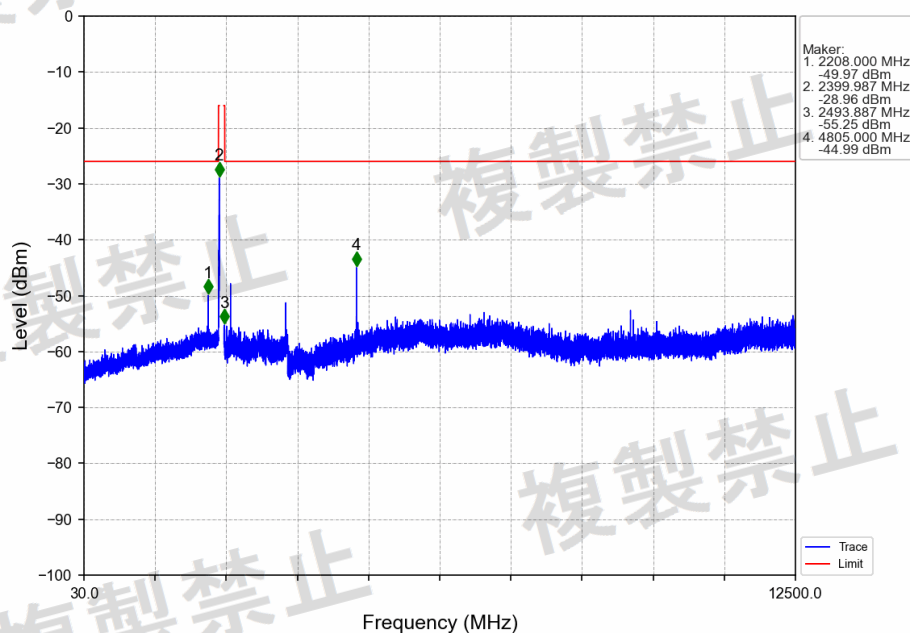


GFSK DH5 2480MHz Ant1 NTN

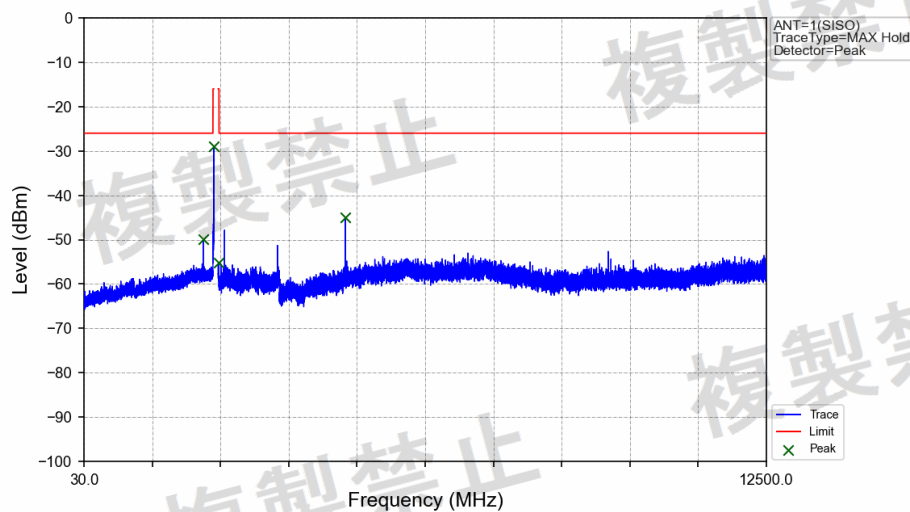


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2286.000	-49.65	/	-26	Pass
2387	2400	1	1	2396.971	-55.87	/	-16	Pass
2483.5	2496.5	1	1	2483.552	-43.03	/	-16	Pass
2496.5	12500	1	1	4960.500	-43.28	/	-26	Pass

Pi/4DQPSK 2DH5 2402MHz Ant1 NTN

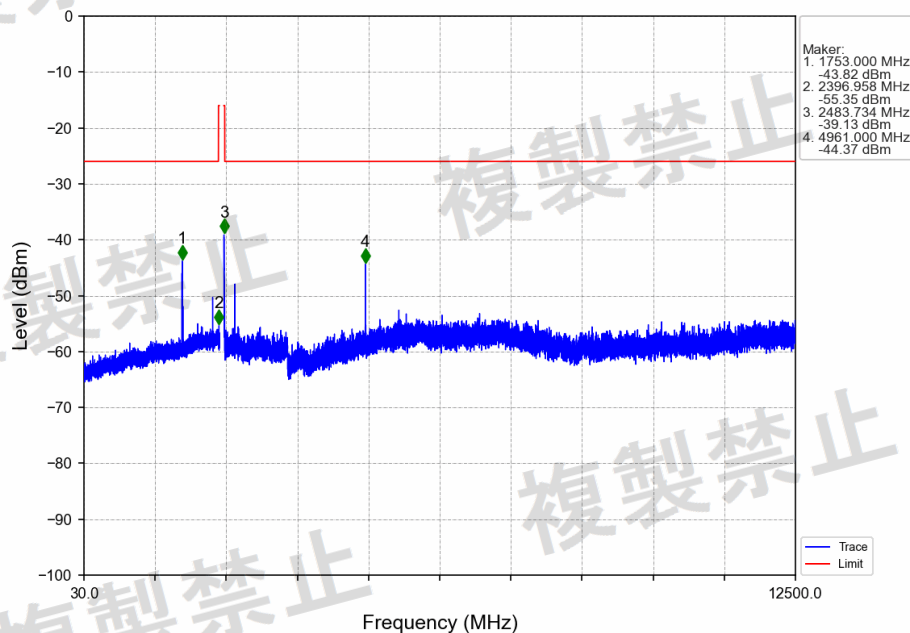


Pi/4DQPSK 2DH5 2402MHz Ant1 NTN

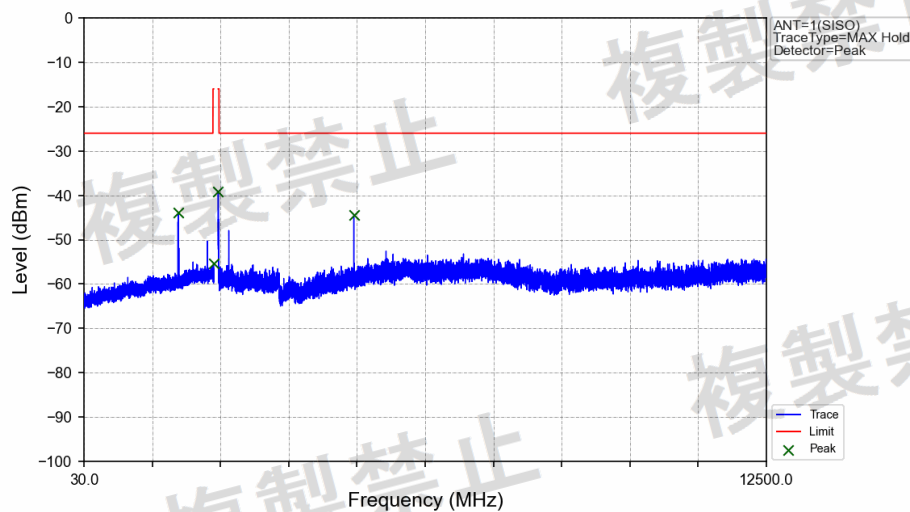


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2208.000	-49.97	/	-26	Pass
2387	2400	1	1	2399.987	-28.96	/	-16	Pass
2483.5	2496.5	1	1	2493.887	-55.25	/	-16	Pass
2496.5	12500	1	1	4805.000	-44.99	/	-26	Pass

Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

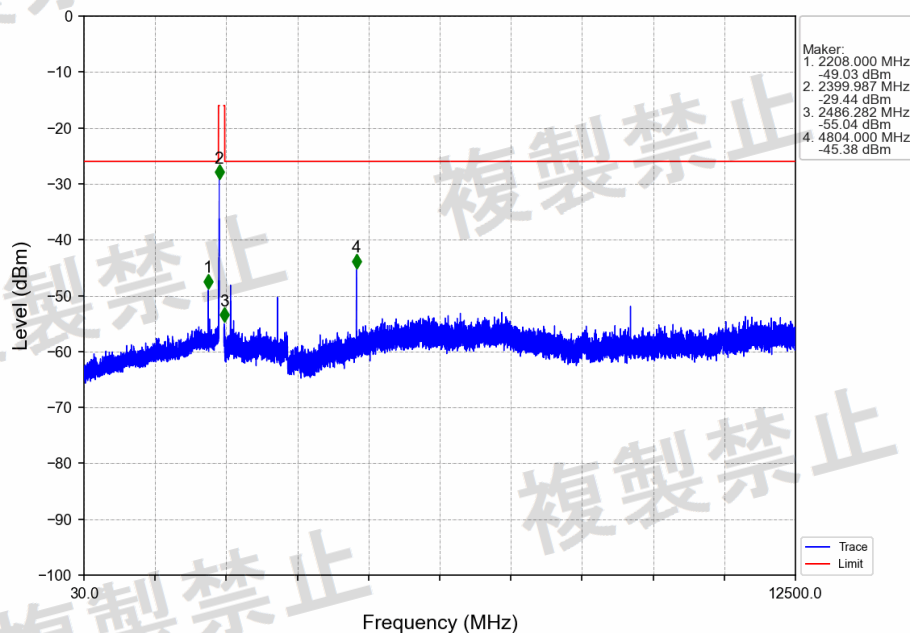


Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

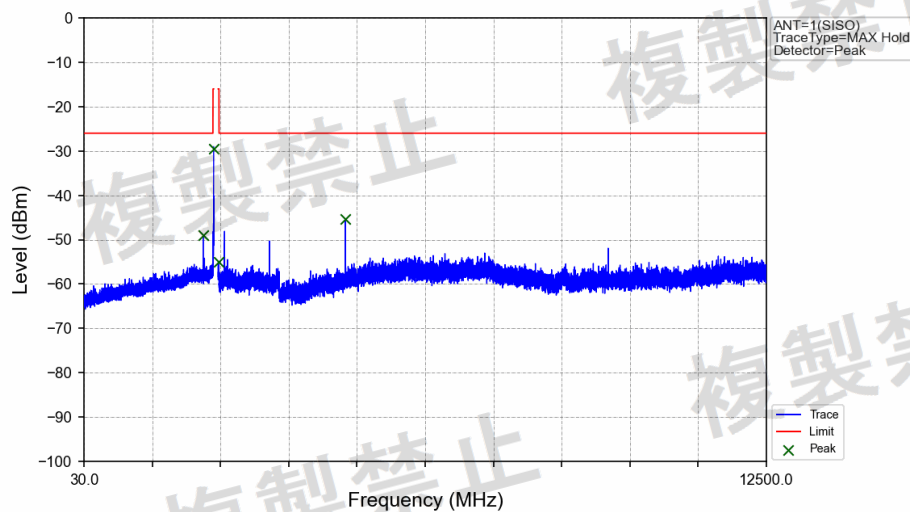


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1753.000	-43.82	/	-26	Pass
2387	2400	1	1	2396.958	-55.35	/	-16	Pass
2483.5	2496.5	1	1	2483.734	-39.13	/	-16	Pass
2496.5	12500	1	1	4961.000	-44.37	/	-26	Pass

8DPSK 3DH5 2402MHz Ant1 NTV

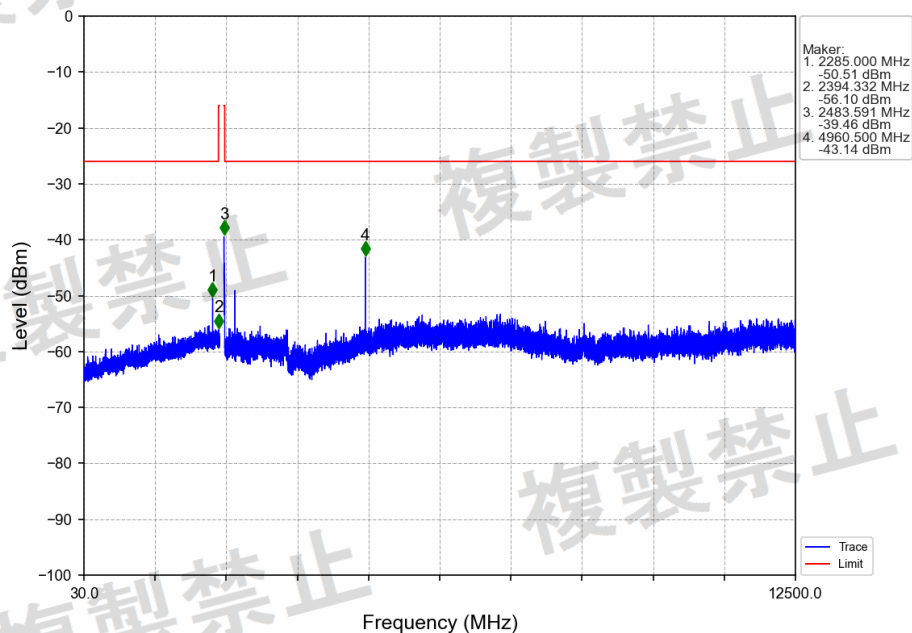


8DPSK 3DH5 2402MHz Ant1 NTV

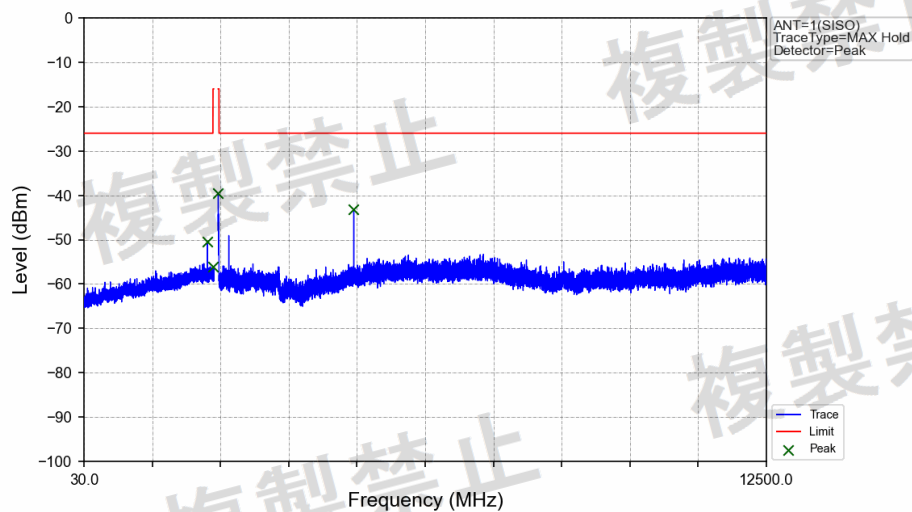


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2208.000	-49.03	/	-26	Pass
2387	2400	1	1	2399.987	-29.44	/	-16	Pass
2483.5	2496.5	1	1	2486.282	-55.04	/	-16	Pass
2496.5	12500	1	1	4804.000	-45.38	/	-26	Pass

8DPSK 3DH5 2480MHz Ant1 NTV

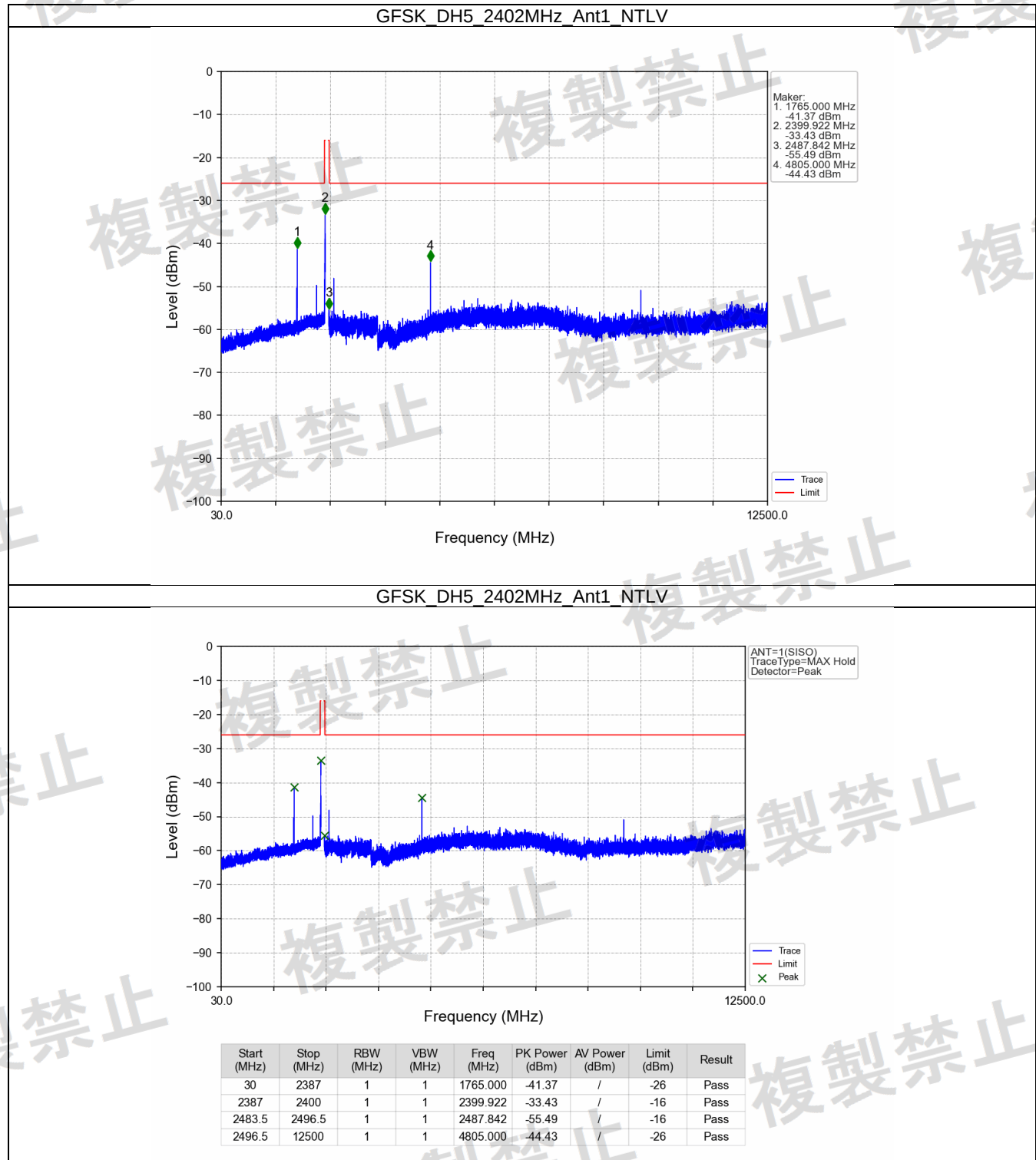


8DPSK 3DH5 2480MHz Ant1 NTV

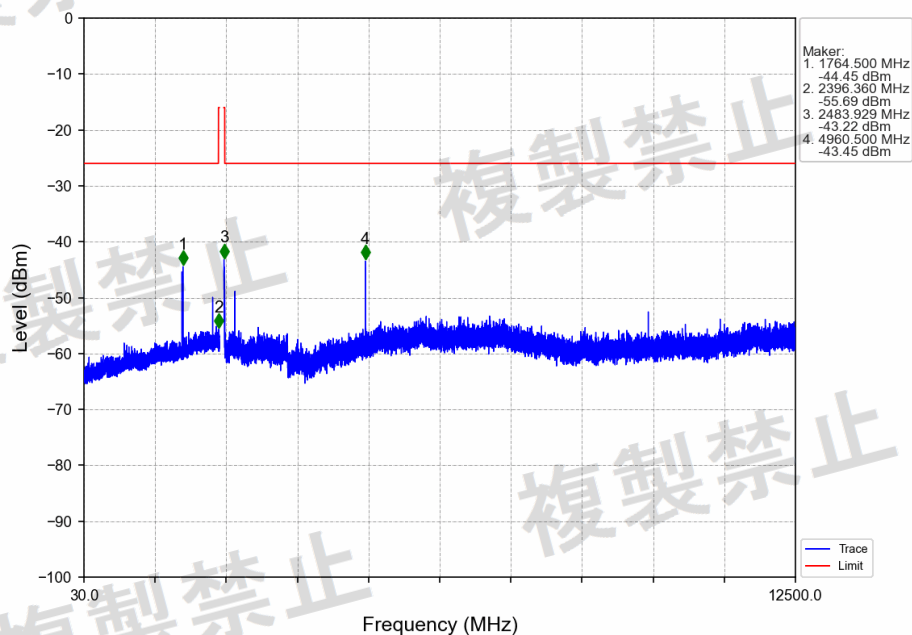


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2285.000	-50.51	/	-26	Pass
2387	2400	1	1	2394.332	-56.10	/	-16	Pass
2483.5	2496.5	1	1	2483.591	-39.46	/	-16	Pass
2496.5	12500	1	1	4960.500	-43.14	/	-26	Pass

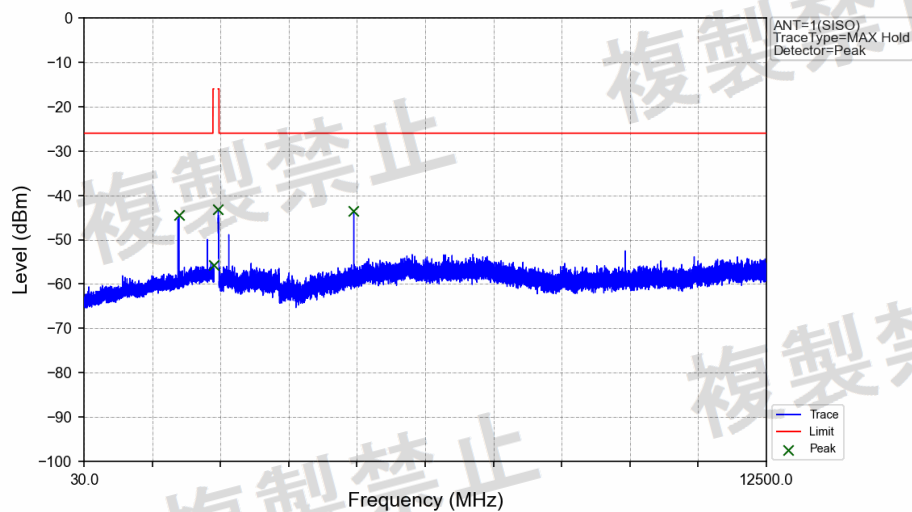
6.2.2 TxSe_NTLV



GFSK DH5 2480MHz Ant1 NTLV

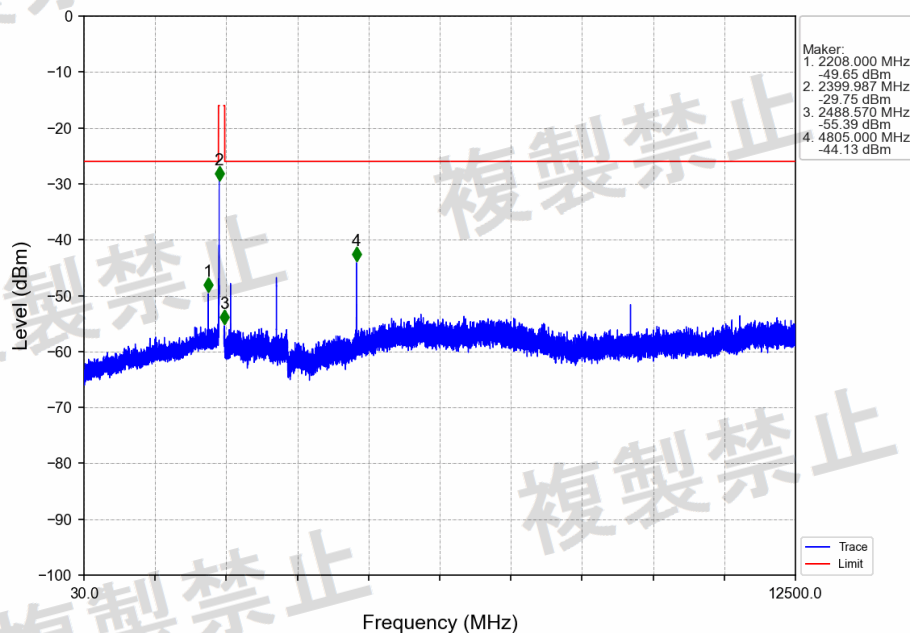


GFSK_DH5_2480MHz_Ant1_NTLV

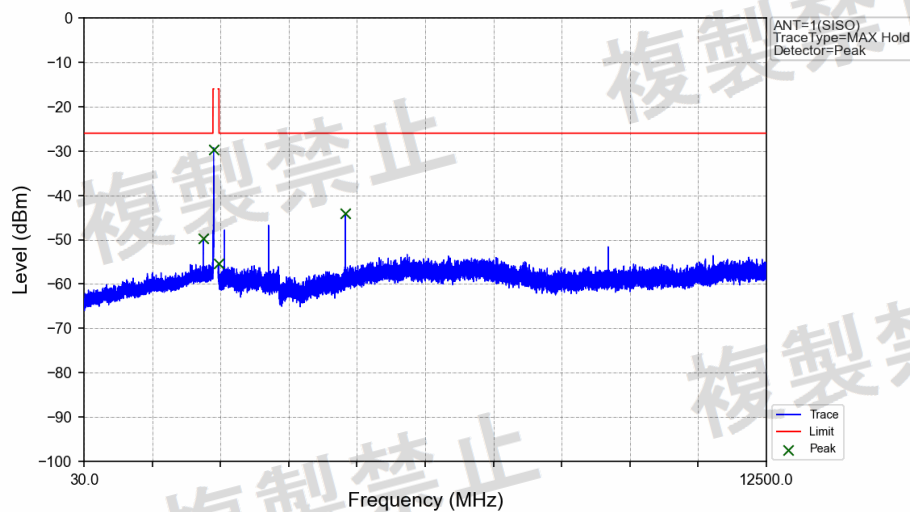


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1764.500	-44.45	/	-26	Pass
2387	2400	1	1	2396.360	-55.69	/	-16	Pass
2483.5	2496.5	1	1	2483.929	-43.22	/	-16	Pass
2496.5	12500	1	1	4960.500	-43.45	/	-26	Pass

Pi/4DQPSK 2DH5 2402MHz Ant1_NTLV

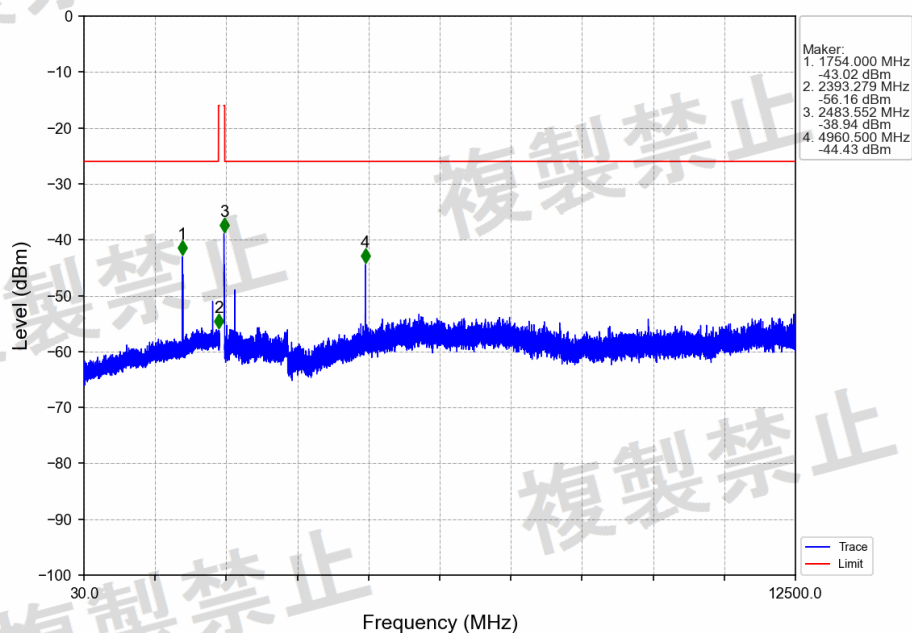


Pi/4DQPSK 2DH5 2402MHz Ant1_NTLV

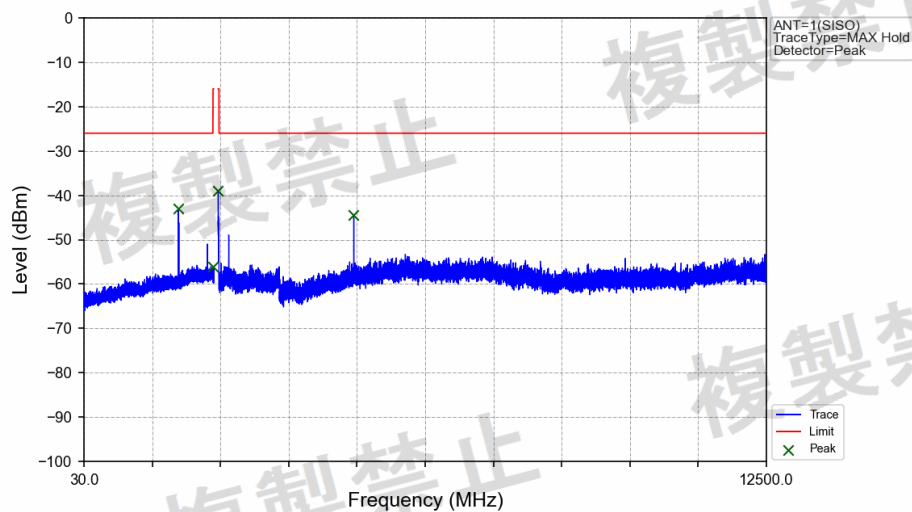


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2208.000	-49.65	/	-26	Pass
2387	2400	1	1	2399.987	-29.75	/	-16	Pass
2483.5	2496.5	1	1	2488.570	-55.39	/	-16	Pass
2496.5	12500	1	1	4805.000	-44.13	/	-26	Pass

Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV

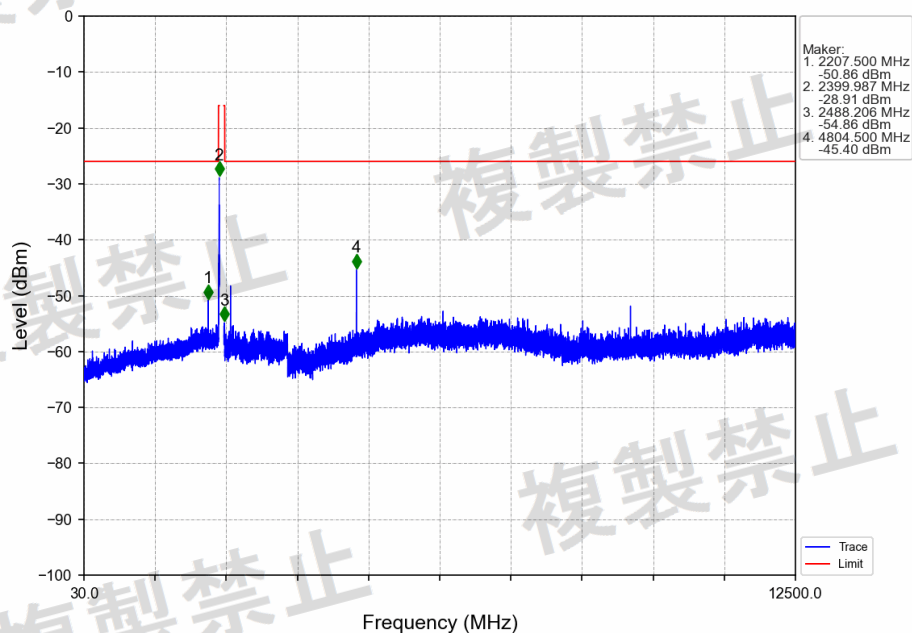


Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV

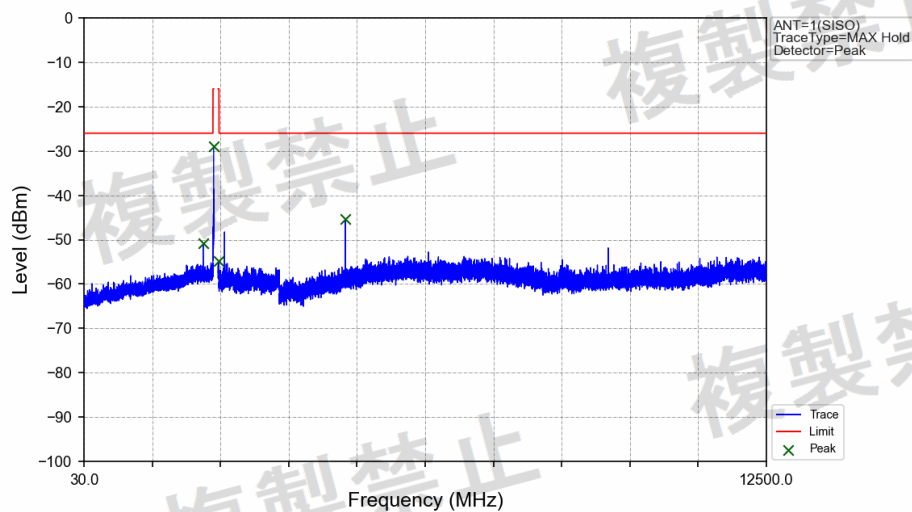


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1754.000	-43.02	/	-26	Pass
2387	2400	1	1	2393.279	-56.16	/	-16	Pass
2483.5	2496.5	1	1	2483.552	-38.94	/	-16	Pass
2496.5	12500	1	1	4960.500	-44.43	/	-26	Pass

8DPSK 3DH5 2402MHz Ant1 NTLV

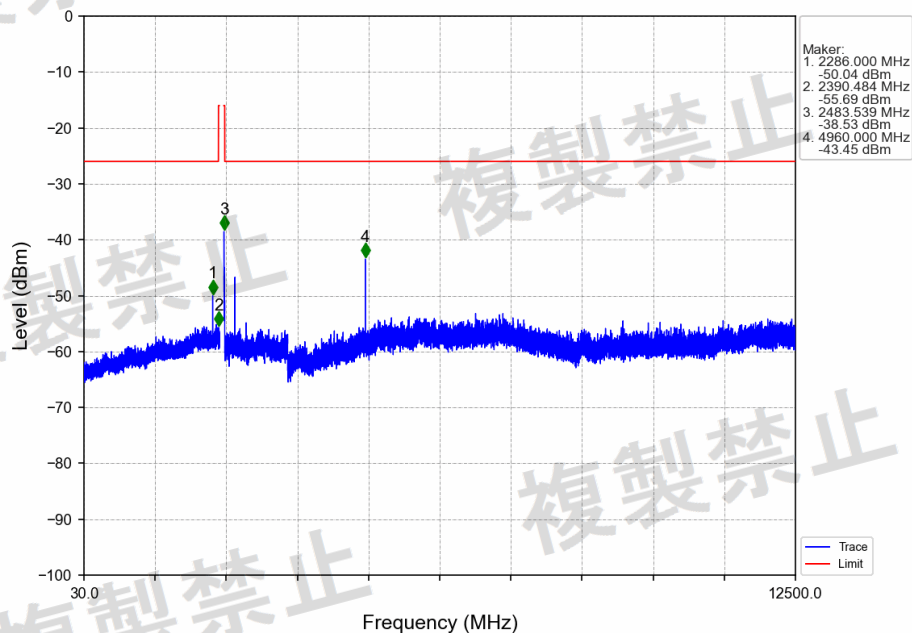


8DPSK 3DH5 2402MHz Ant1 NTLV

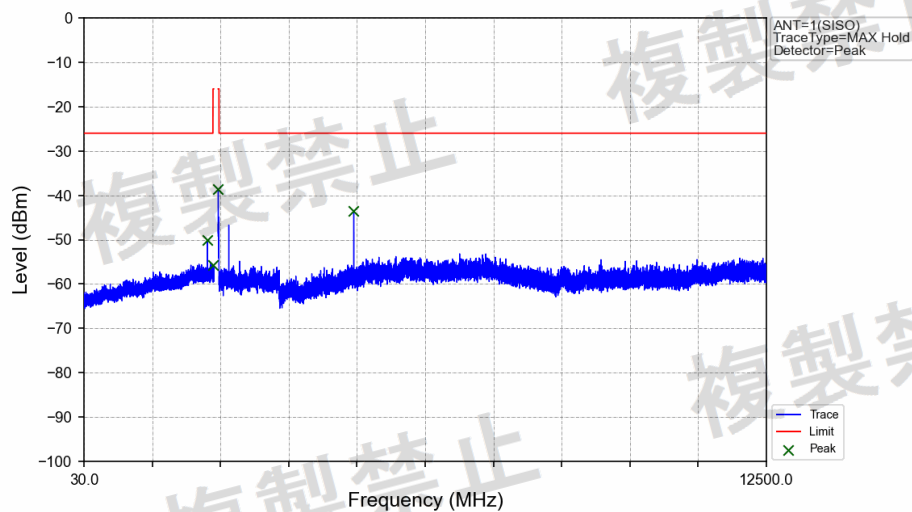


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2207.500	-50.86	/	-26	Pass
2387	2400	1	1	2399.987	-28.91	/	-16	Pass
2483.5	2496.5	1	1	2488.206	-54.86	/	-16	Pass
2496.5	12500	1	1	4804.500	-45.40	/	-26	Pass

8DPSK 3DH5 2480MHz Ant1 NTLV

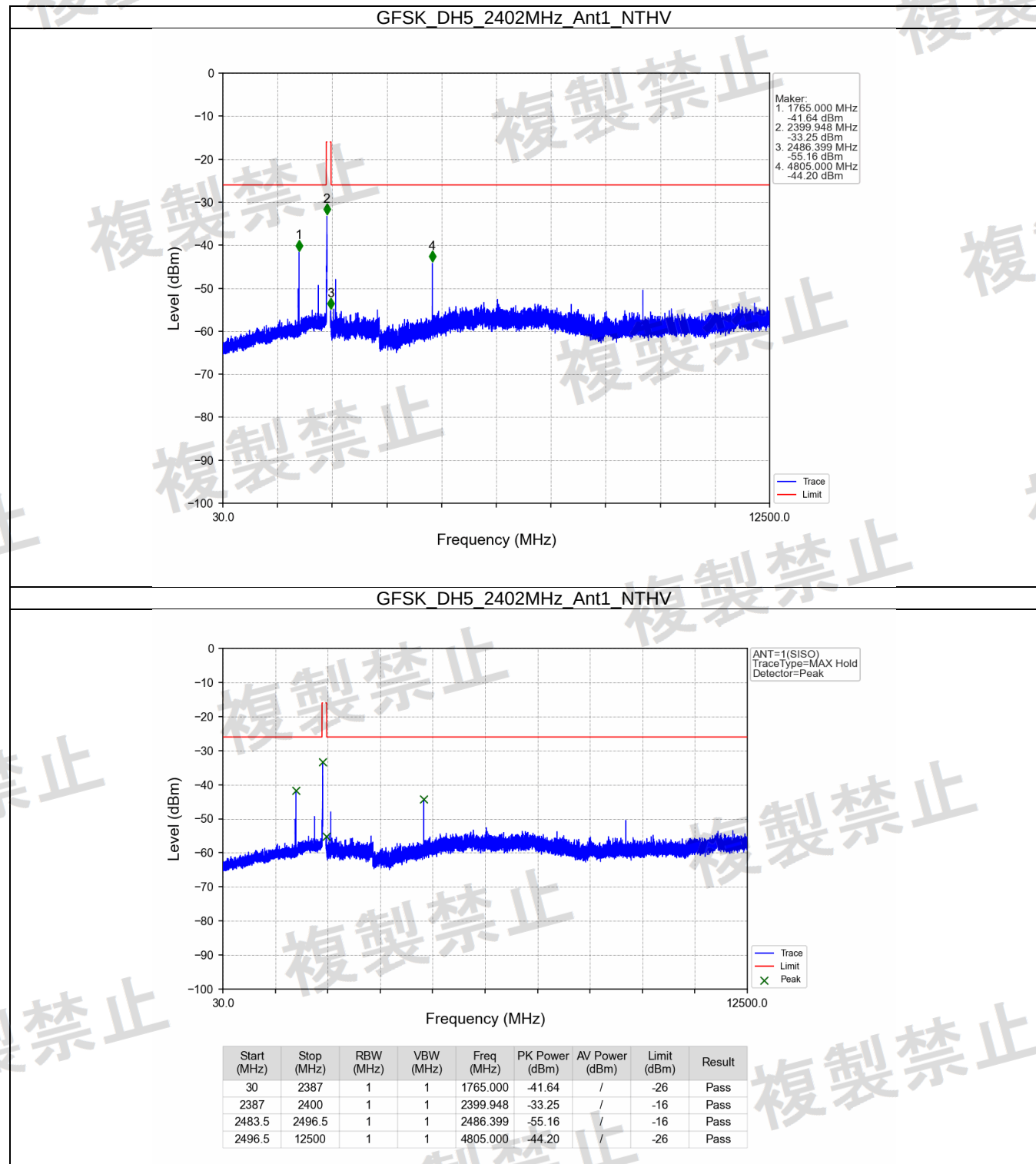


8DPSK 3DH5 2480MHz Ant1 NTLV

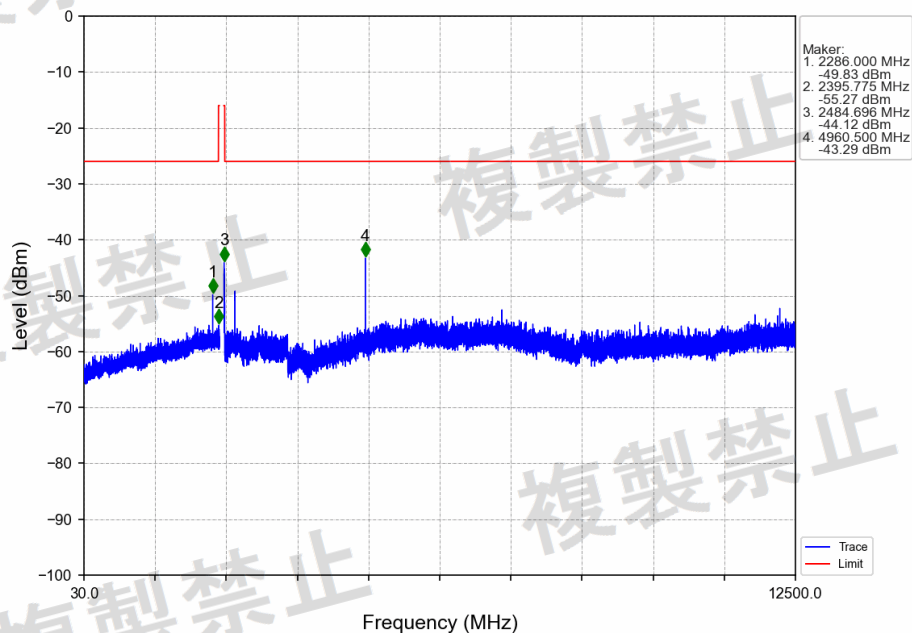


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2286.000	-50.04	/	-26	Pass
2387	2400	1	1	2390.484	-55.69	/	-16	Pass
2483.5	2496.5	1	1	2483.539	-38.53	/	-16	Pass
2496.5	12500	1	1	4960.000	-43.45	/	-26	Pass

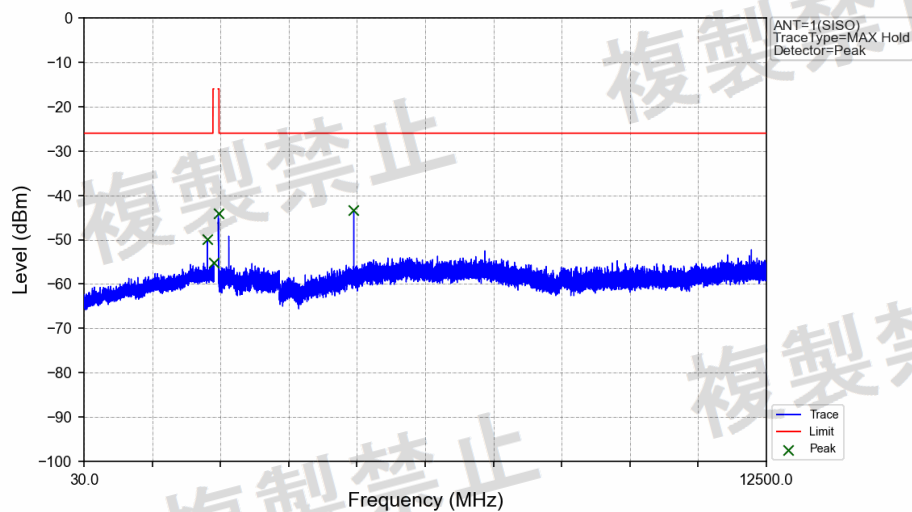
6.2.3 TxSe_NTHV



GFSK DH5 2480MHz Ant1 NTHV

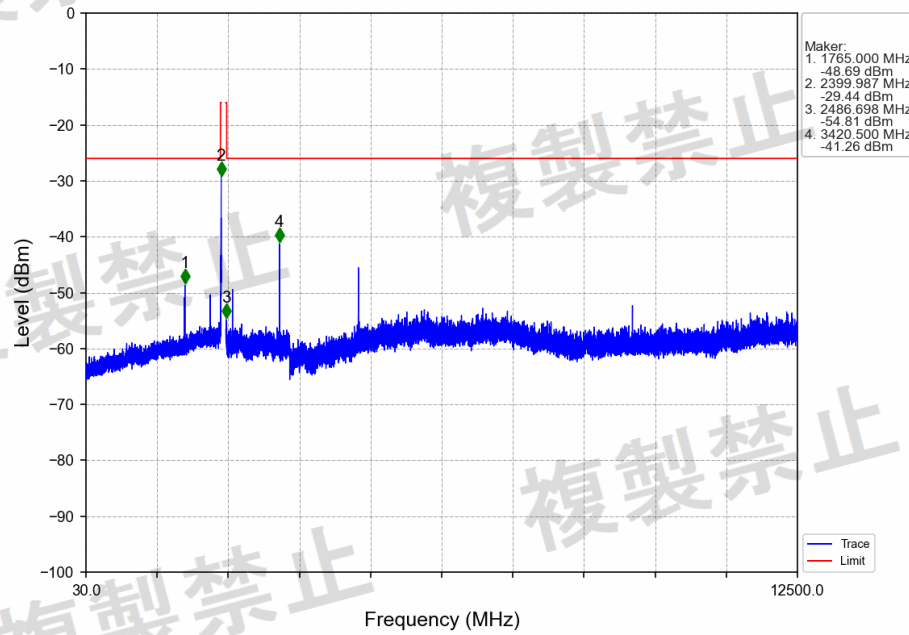


GFSK DH5 2480MHz Ant1 NTHV

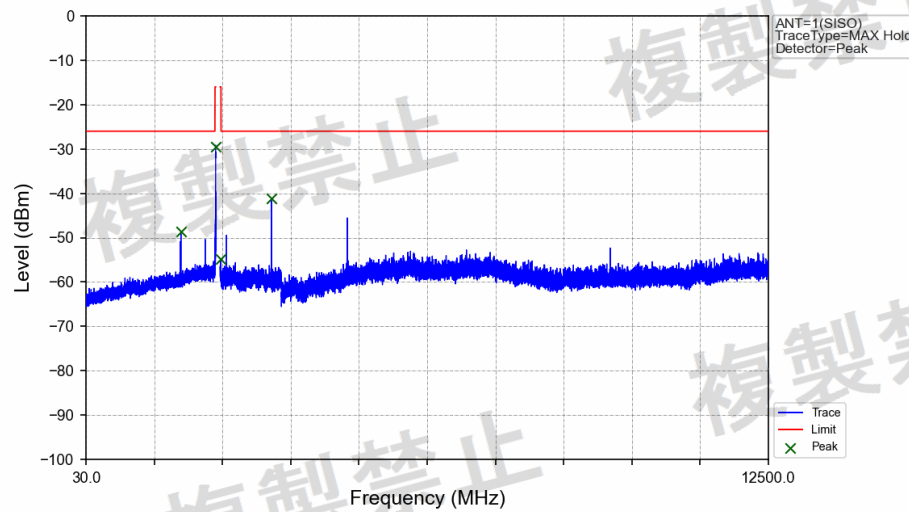


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2286.000	-49.83	/	-26	Pass
2387	2400	1	1	2395.775	-55.27	/	-16	Pass
2483.5	2496.5	1	1	2484.696	-44.12	/	-16	Pass
2496.5	12500	1	1	4960.500	-43.29	/	-26	Pass

Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV

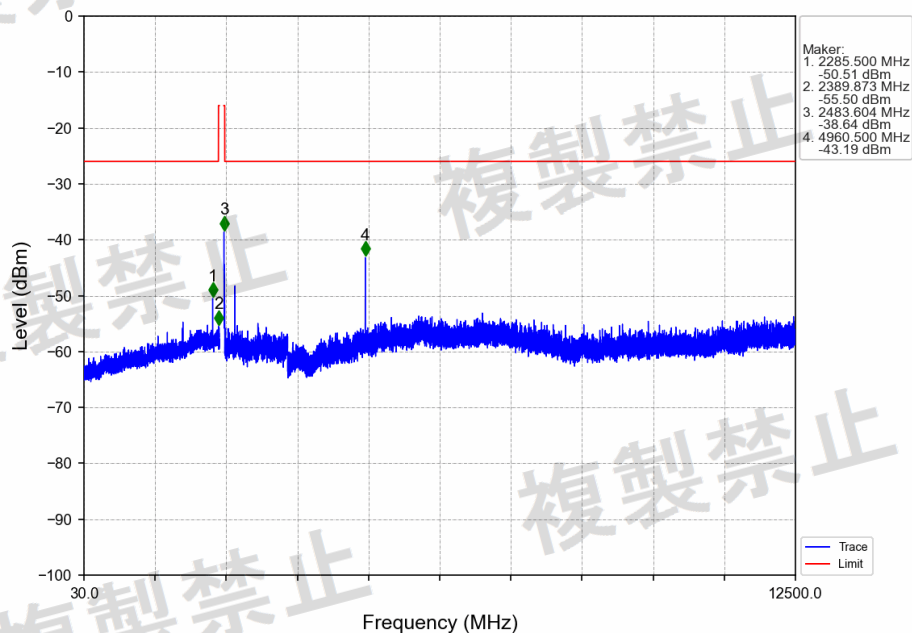


Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV

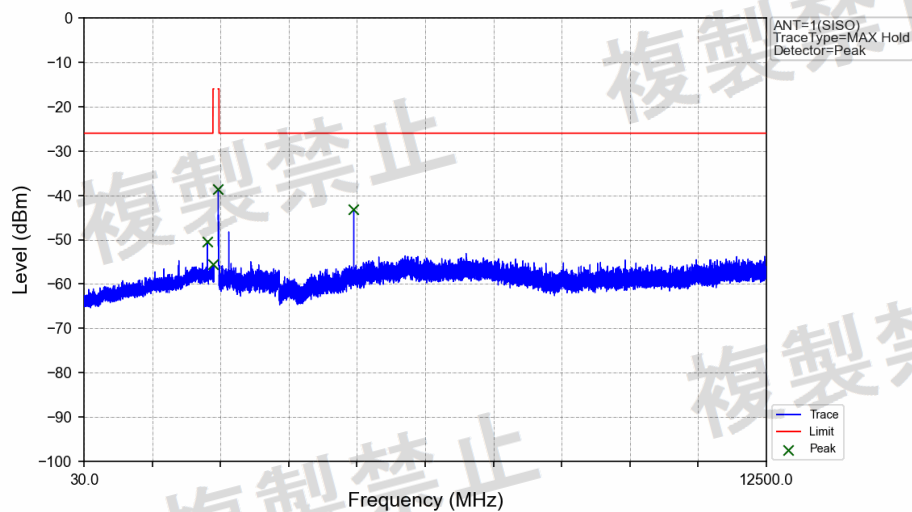


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1765.000	-48.69	/	-26	Pass
2387	2400	1	1	2399.987	-29.44	/	-16	Pass
2483.5	2496.5	1	1	2486.698	-54.81	/	-16	Pass
2496.5	12500	1	1	3420.500	-41.26	/	-26	Pass

Pi/4DQPSK 2DH5 2480MHz Ant1 NTHV

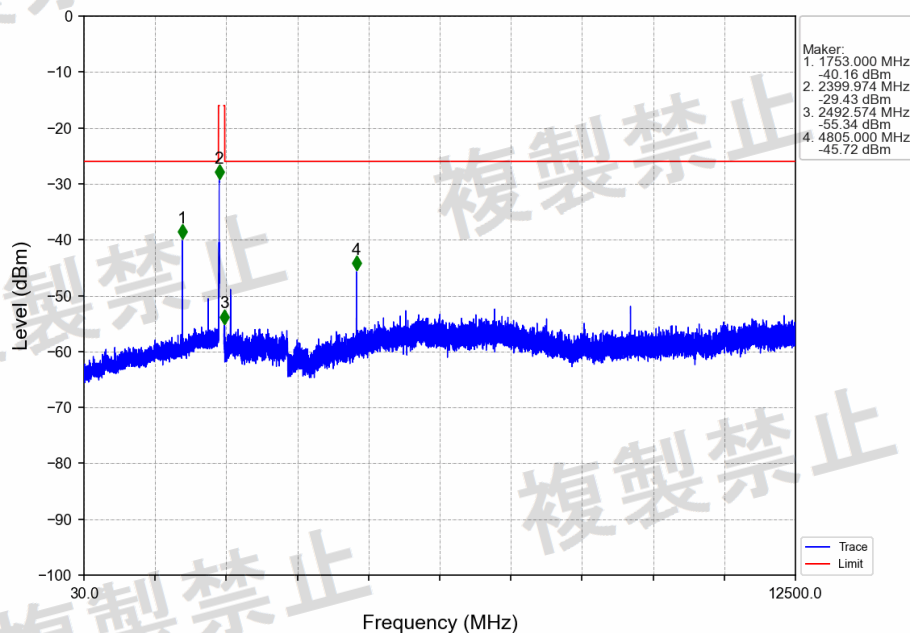


Pi/4DQPSK 2DH5 2480MHz Ant1 NTHV

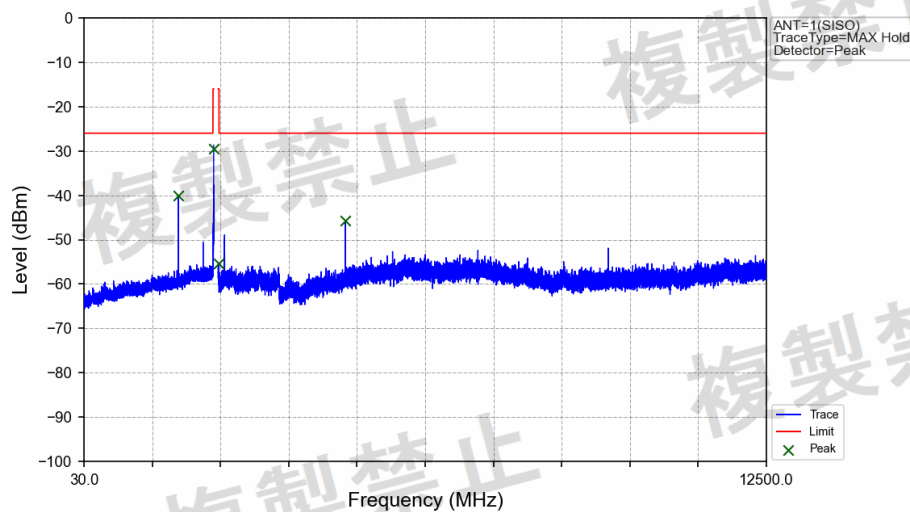


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2285.500	-50.51	/	-26	Pass
2387	2400	1	1	2389.873	-55.50	/	-16	Pass
2483.5	2496.5	1	1	2483.604	-38.64	/	-16	Pass
2496.5	12500	1	1	4960.500	-43.19	/	-26	Pass

8DPSK 3DH5 2402MHz Ant1 NTHV

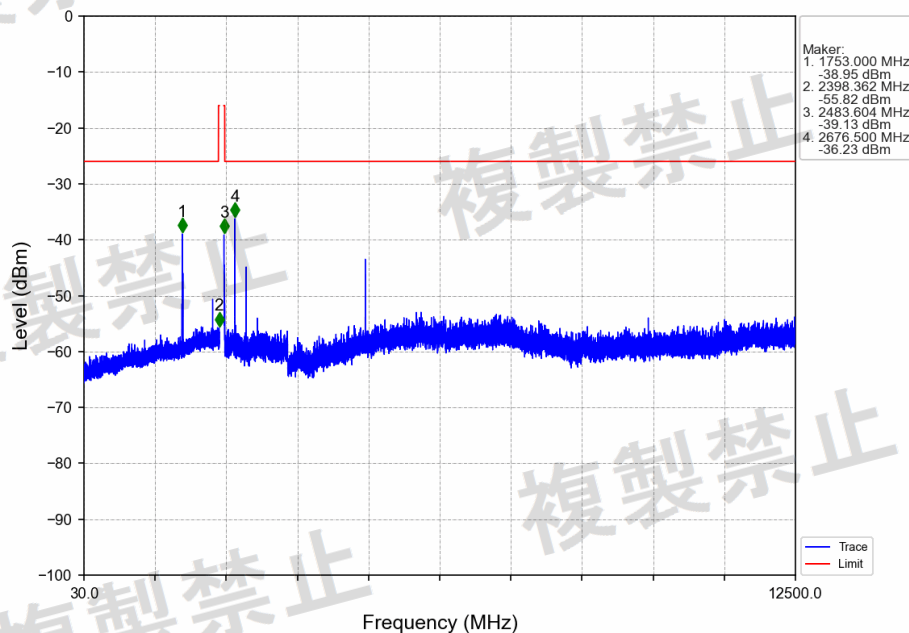


8DPSK 3DH5 2402MHz Ant1 NTHV

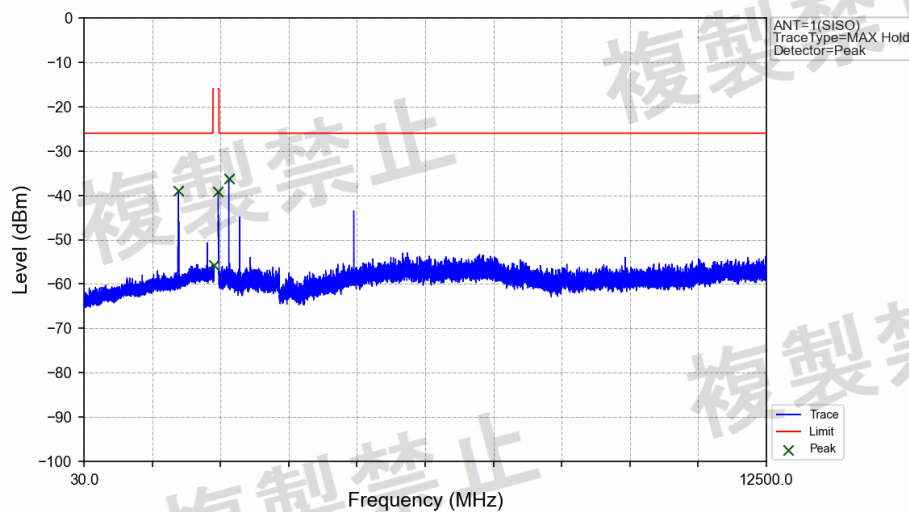


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1753.000	-40.16	/	-26	Pass
2387	2400	1	1	2399.974	-29.43	/	-16	Pass
2483.5	2496.5	1	1	2492.574	-55.34	/	-16	Pass
2496.5	12500	1	1	4805.000	-45.72	/	-26	Pass

8DPSK 3DH5 2480MHz Ant1 NTHV



8DPSK 3DH5 2480MHz Ant1 NTHV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1753.000	-38.95	/	-26	Pass
2387	2400	1	1	2398.362	-55.82	/	-16	Pass
2483.5	2496.5	1	1	2483.604	-39.13	/	-16	Pass
2496.5	12500	1	1	2676.500	-36.23	/	-26	Pass

7. Secondary Radiated Emission

7.1 Test Result

7.1.1 RxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	891.55	-74.24	0.038	/	/	4	Pass
				1000	12500	7036	-58.47	1.422	/	/	20	Pass
		2480	1	30	1000	903.65	-74.37	0.037	/	/	4	Pass
				1000	12500	6053	-58.58	1.387	/	/	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	964.7	-74.14	0.039	/	/	4	Pass
				1000	12500	5980	-58.75	1.334	/	/	20	Pass
		2480	1	30	1000	985.95	-74.65	0.034	/	/	4	Pass
				1000	12500	6122.5	-59.12	1.225	/	/	20	Pass
8DPSK	SISO	2402	1	30	1000	946.35	-73.80	0.042	/	/	4	Pass
				1000	12500	6000	-58.80	1.318	/	/	20	Pass
		2480	1	30	1000	547.05	-74.53	0.035	/	/	4	Pass
				1000	12500	6263.5	-58.71	1.346	/	/	20	Pass

7.1.2 RxSe_NTLV

NTLV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	794.45	-74.62	0.035	/	/	4	Pass
				1000	12500	6922.5	-58.58	1.387	/	/	20	Pass
		2480	1	30	1000	882.9	-74.35	0.037	/	/	4	Pass
				1000	12500	7042	-58.46	1.426	/	/	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	939.35	-74.07	0.039	/	/	4	Pass
				1000	12500	5900	-58.78	1.324	/	/	20	Pass
		2480	1	30	1000	797.1	-74.11	0.039	/	/	4	Pass
				1000	12500	7328	-58.27	1.489	/	/	20	Pass
8DPSK	SISO	2402	1	30	1000	823.85	-73.83	0.041	/	/	4	Pass
				1000	12500	6979.5	-58.31	1.476	/	/	20	Pass
		2480	1	30	1000	854.95	-74.77	0.033	/	/	4	Pass
				1000	12500	7160	-58.49	1.416	/	/	20	Pass

7.1.3 RxSe_NTHV

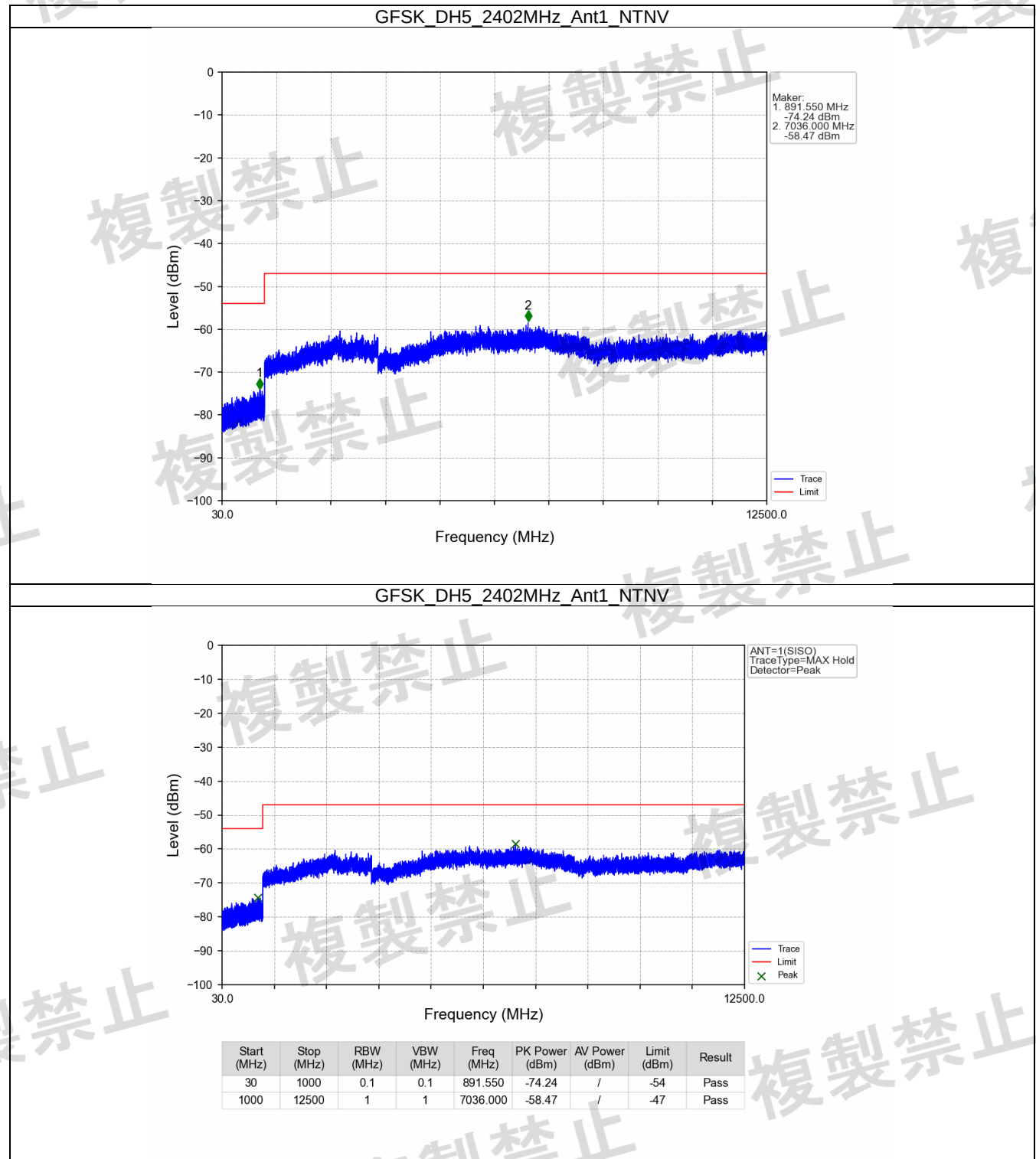
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	729.5	-74.80	0.033	/	/	4	Pass
				1000	12500	5898.5	-58.92	1.282	/	/	20	Pass
		2480	1	30	1000	941.15	-73.97	0.040	/	/	4	Pass
				1000	12500	6002.5	-58.43	1.435	/	/	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	995.3	-72.98	0.050	/	/	4	Pass



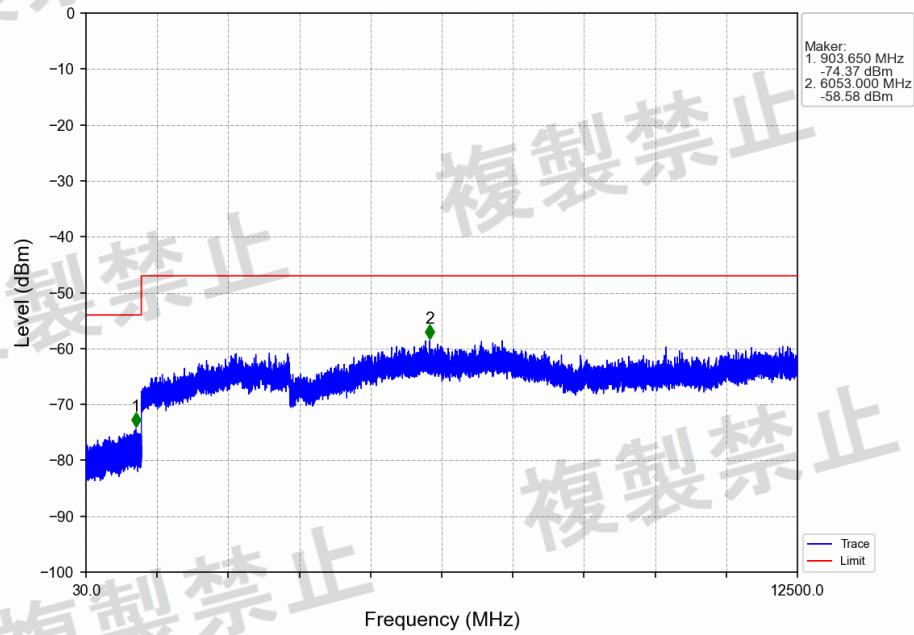
8DPSK	SISO	2480	1	1000	12500	7013.5	-58.90	1.288	/	/	20	Pass
				30	1000	760.2	-73.77	0.042	/	/	4	Pass
				1000	12500	6944	-58.39	1.449	/	/	20	Pass
		2402	1	30	1000	932.9	-74.73	0.034	/	/	4	Pass
				1000	12500	7073.5	-58.91	1.285	/	/	20	Pass
		2480	1	30	1000	795.95	-73.88	0.041	/	/	4	Pass
				1000	12500	6879	-58.78	1.324	/	/	20	Pass

7.2 Test Graph

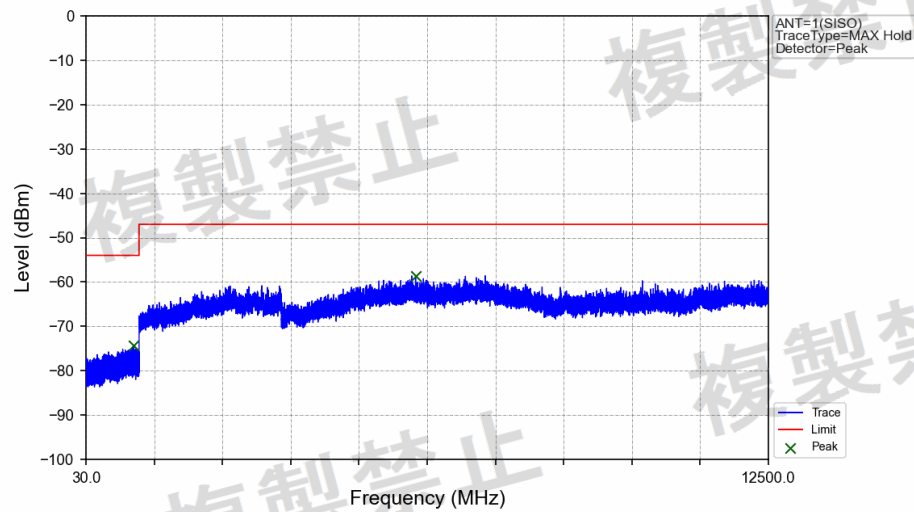
7.2.1 RxSe_NTNV



GFSK DH5 2480MHz Ant1 NTN

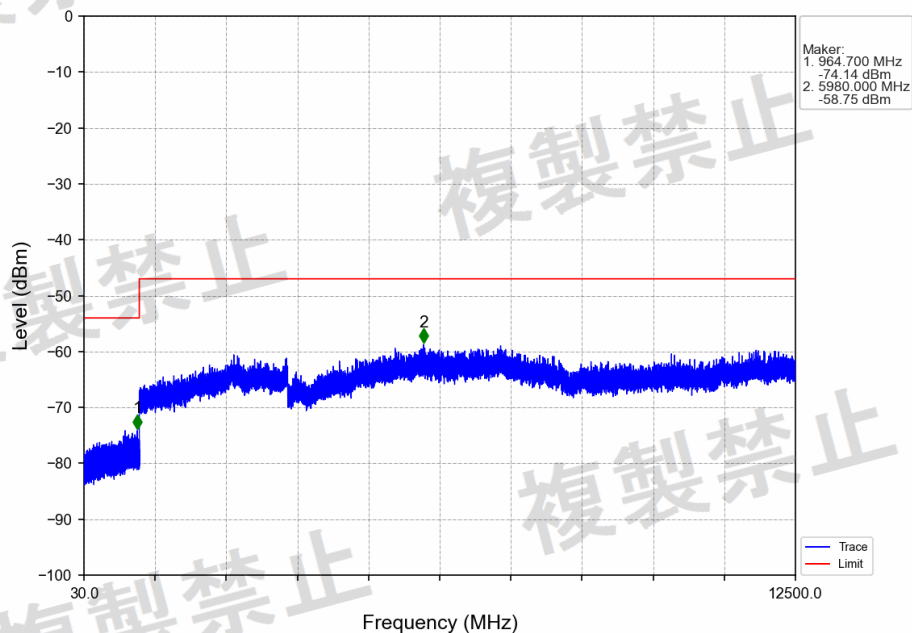


GFSK DH5 2480MHz Ant1 NTN

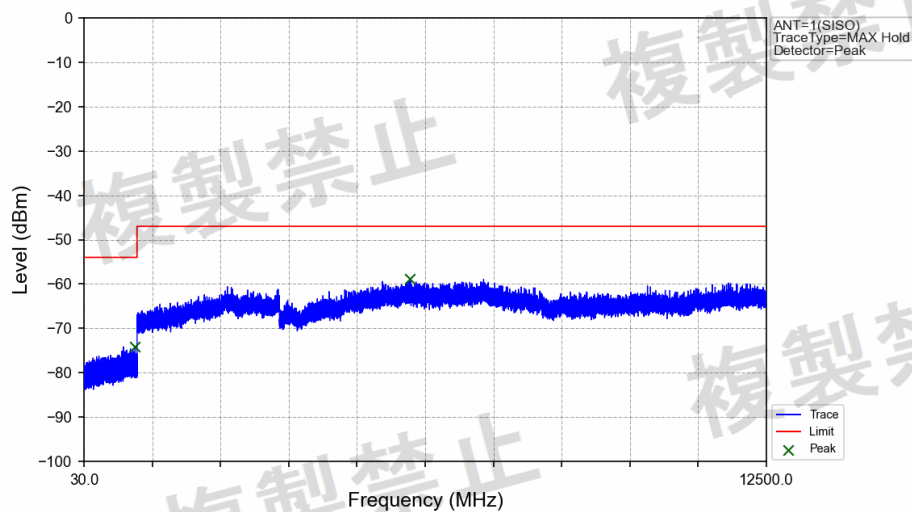


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	903.650	-74.37	/	-54	Pass
1000	12500	1	1	6053.000	-58.58	/	-47	Pass

Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

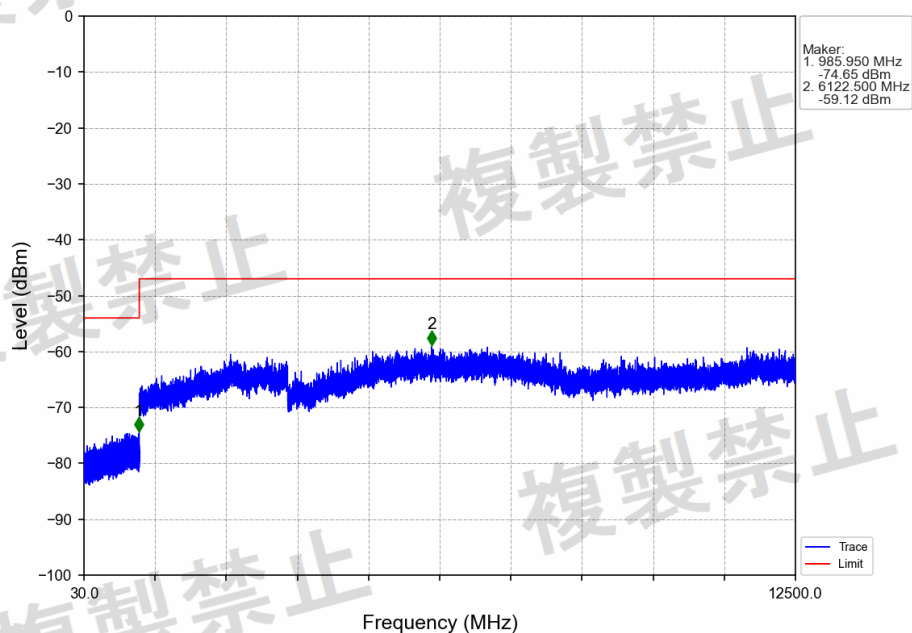


Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

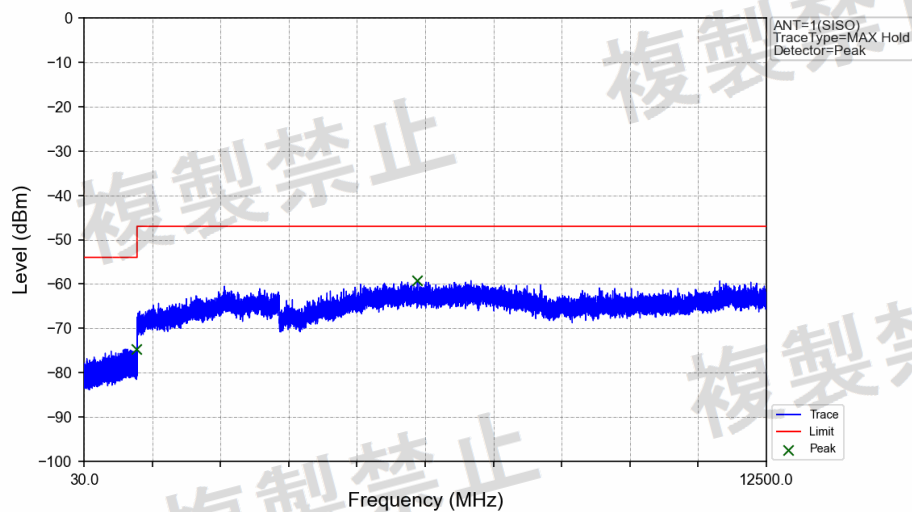


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	964.700	-74.14	/	-54	Pass
1000	12500	1	1	5980.000	-58.75	/	-47	Pass

Pi/4DQPSK 2DH5 2480MHz_Ant1_NTNV

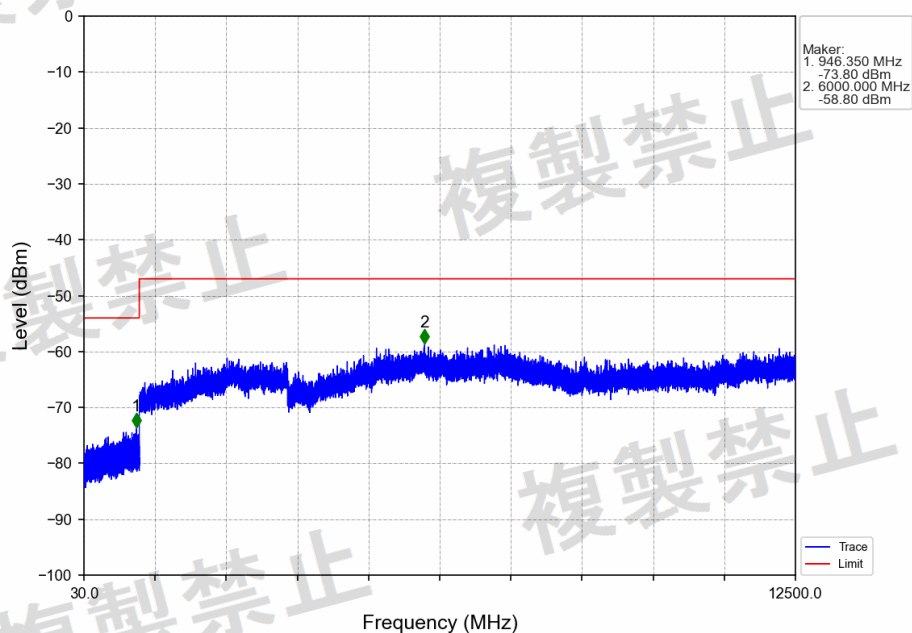


Pi/4DQPSK 2DH5 2480MHz_Ant1_NTNV

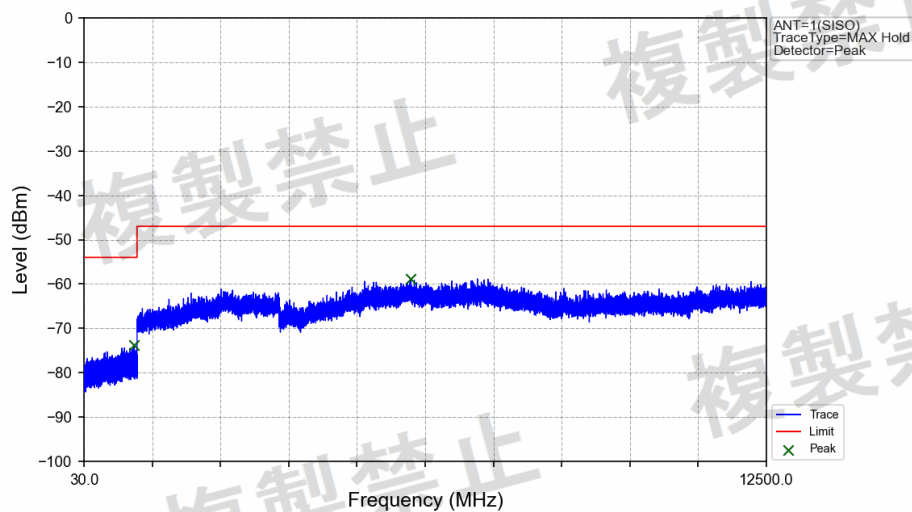


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	985.950	-74.65	/	-54	Pass
1000	12500	1	1	6122.500	-59.12	/	-47	Pass

8DPSK 3DH5 2402MHz Ant1 NTV

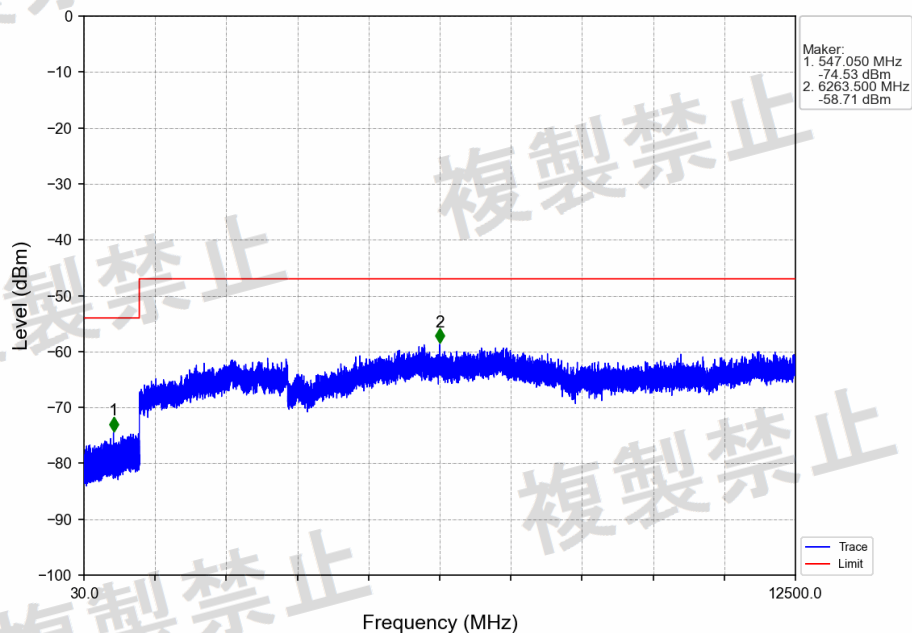


8DPSK 3DH5 2402MHz Ant1 NTV

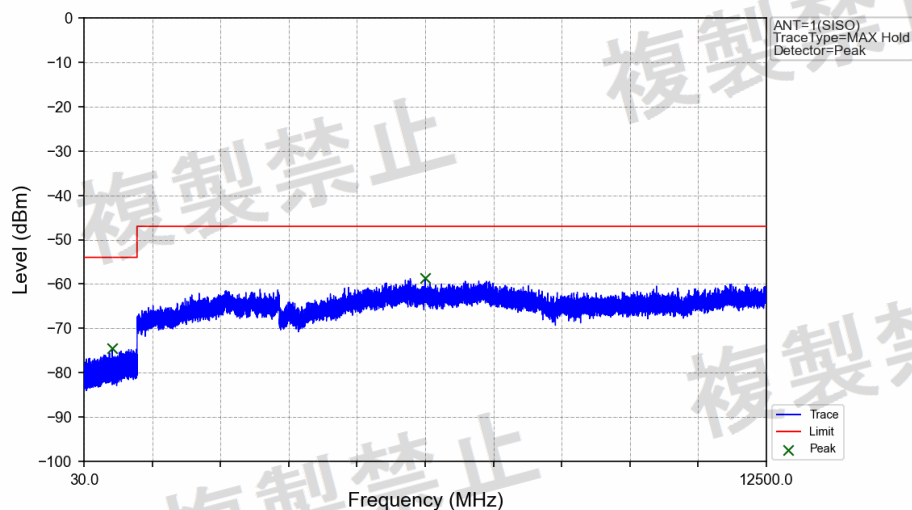


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	946.350	-73.80	/	-54	Pass
1000	12500	1	1	6000.000	-58.80	/	-47	Pass

8DPSK 3DH5 2480MHz Ant1 NTV

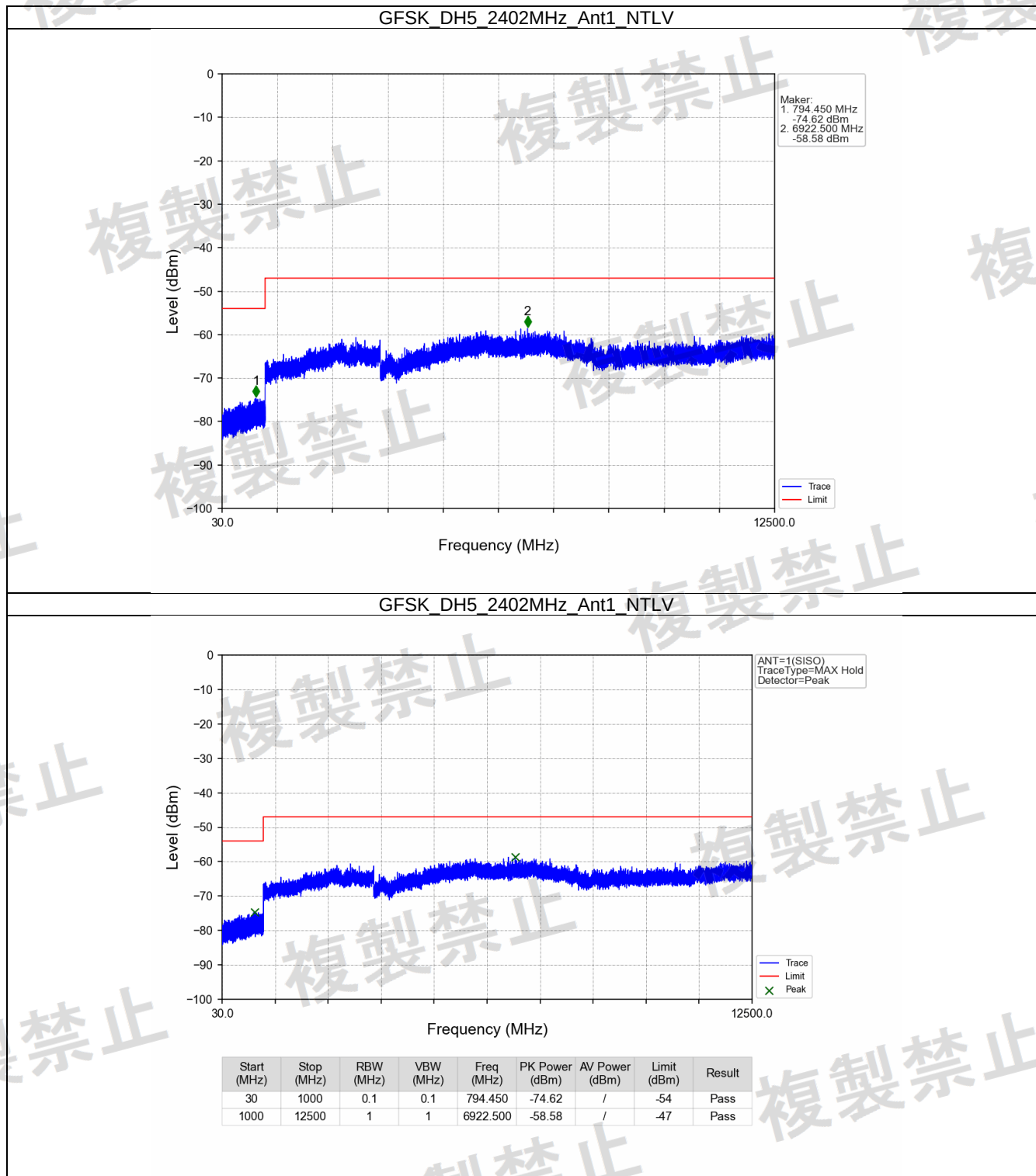


8DPSK 3DH5 2480MHz Ant1 NTV

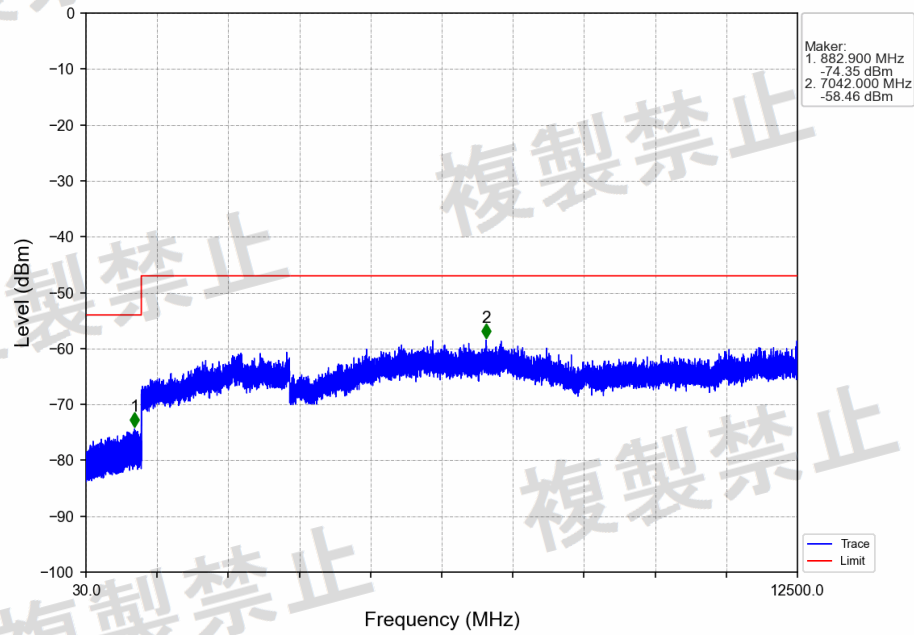


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	547.050	-74.53	/	-54	Pass
1000	12500	1	1	6263.500	-58.71	/	-47	Pass

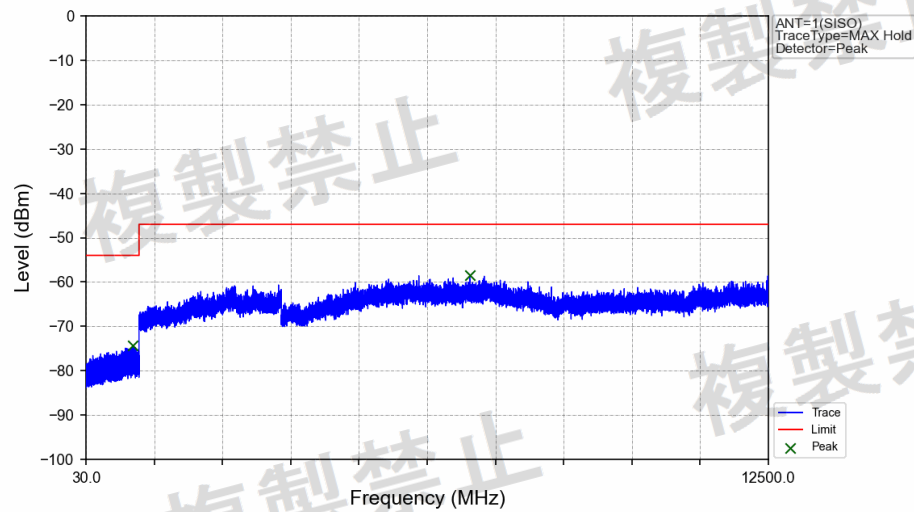
7.2.2 RxSe_NTLV



GFSK DH5 2480MHz Ant1 NTLV

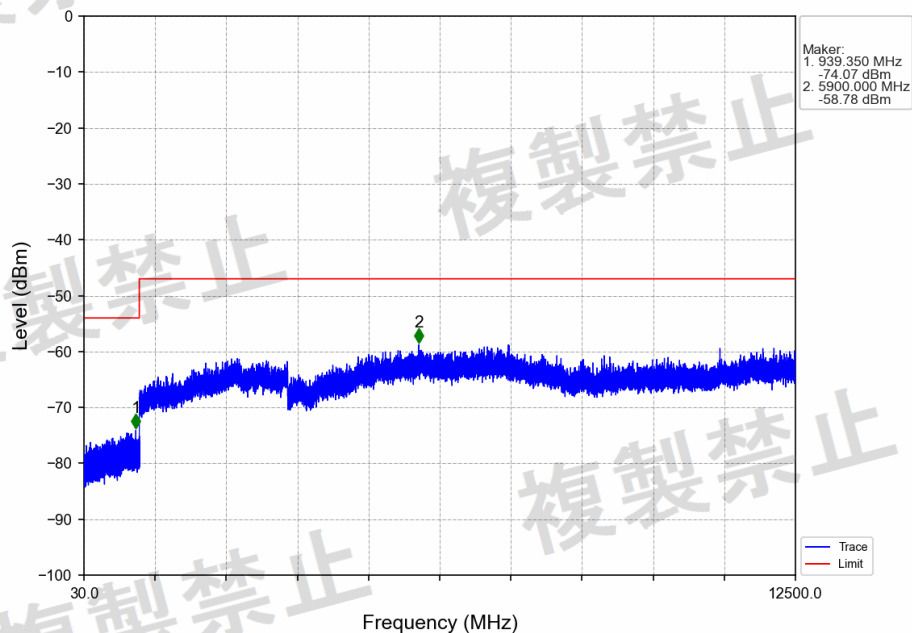


GFSK_DH5_2480MHz_Ant1_NTLV

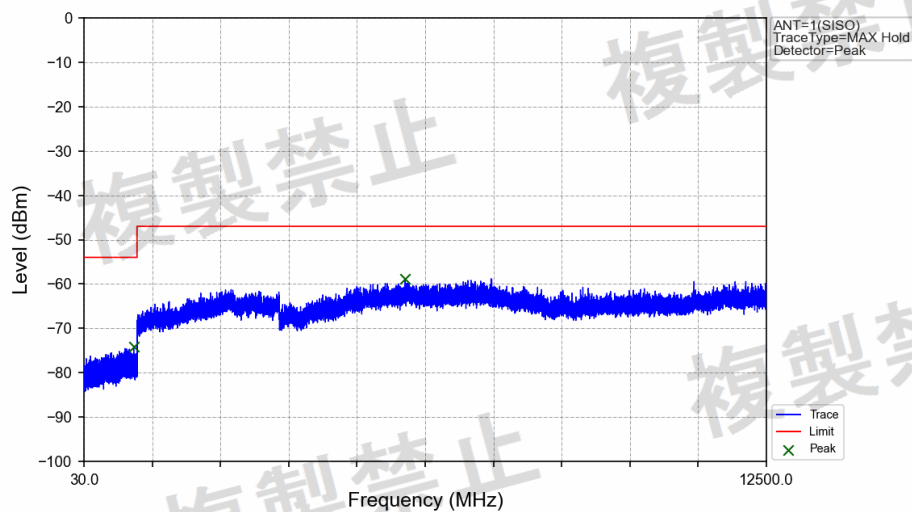


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	882.900	-74.35	/	-54	Pass
1000	12500	1	1	7042.000	-58.46	/	-47	Pass

Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV

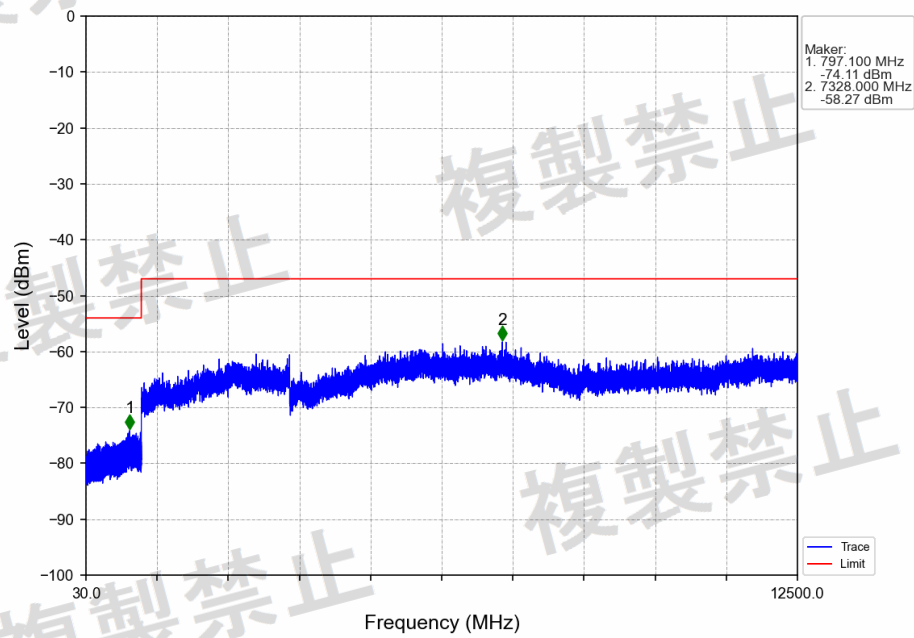


Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV

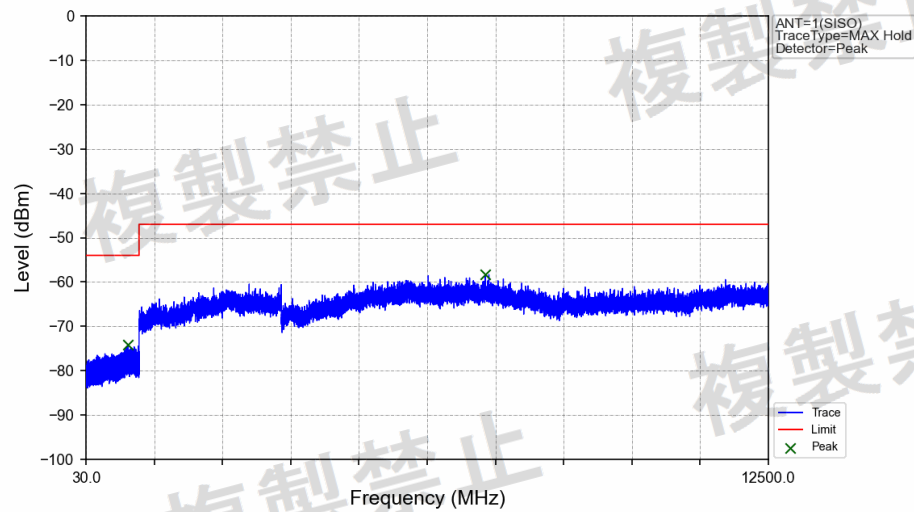


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	939.350	-74.07	/	-54	Pass
1000	12500	1	1	5900.000	-58.78	/	-47	Pass

Pi/4DQPSK 2DH5 2480MHz_Ant1_NTLV

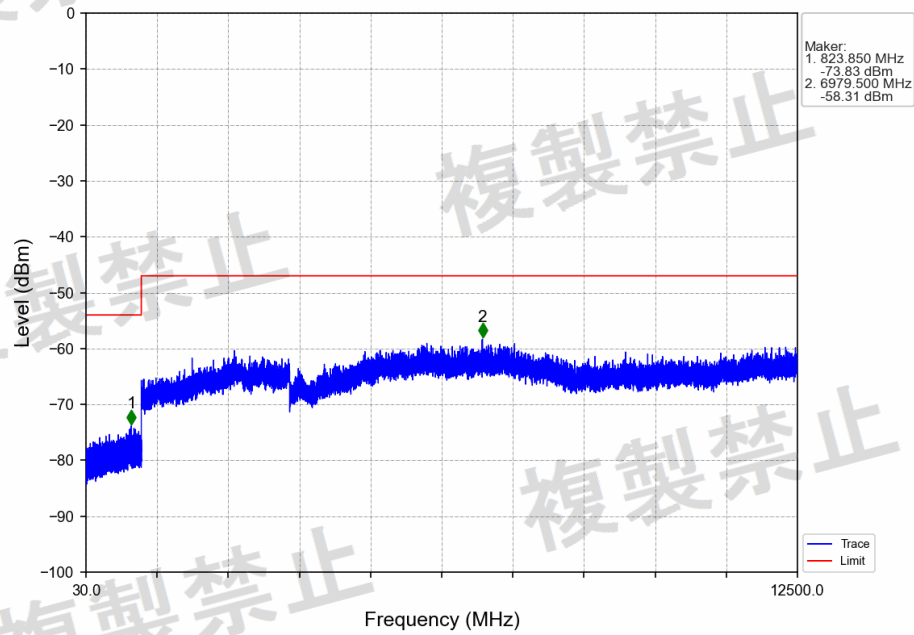


Pi/4DQPSK 2DH5 2480MHz_Ant1_NTLV

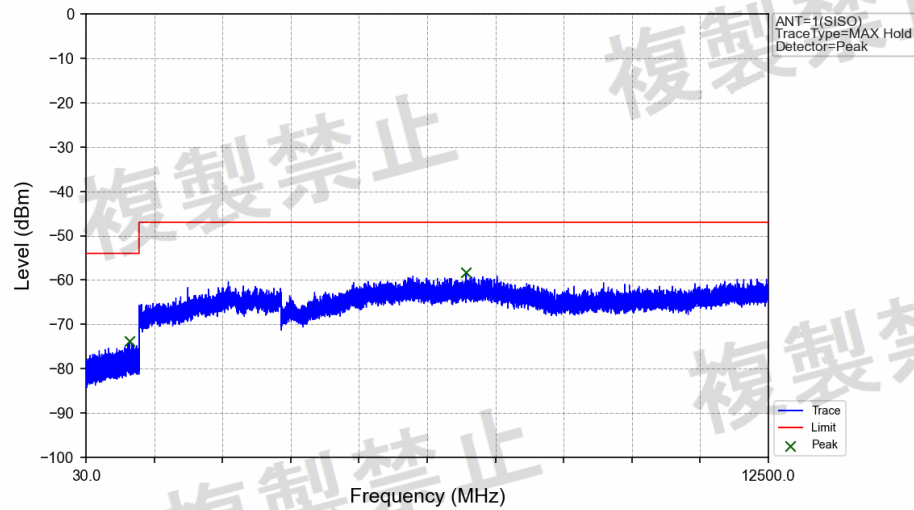


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	797.100	-74.11	/	-54	Pass
1000	12500	1	1	7328.000	-58.27	/	-47	Pass

8DPSK 3DH5 2402MHz Ant1 NTLV

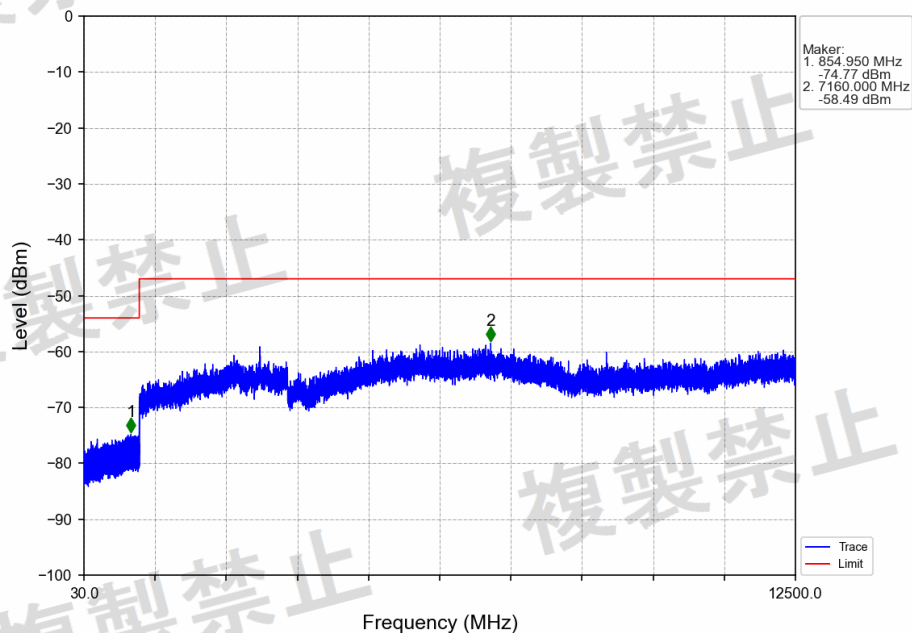


8DPSK 3DH5 2402MHz Ant1 NTLV

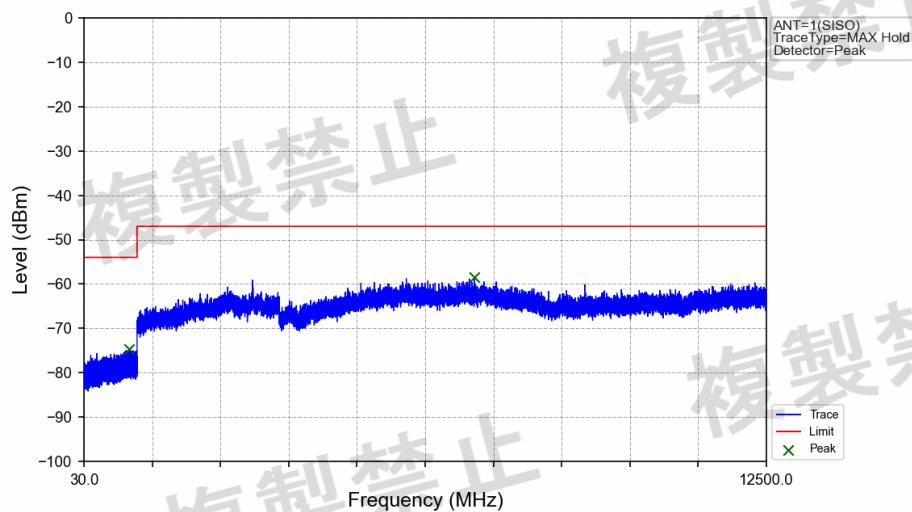


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	823.850	-73.83	/	-54	Pass
1000	12500	1	1	6979.500	-58.31	/	-47	Pass

8DPSK 3DH5 2480MHz Ant1 NTLV

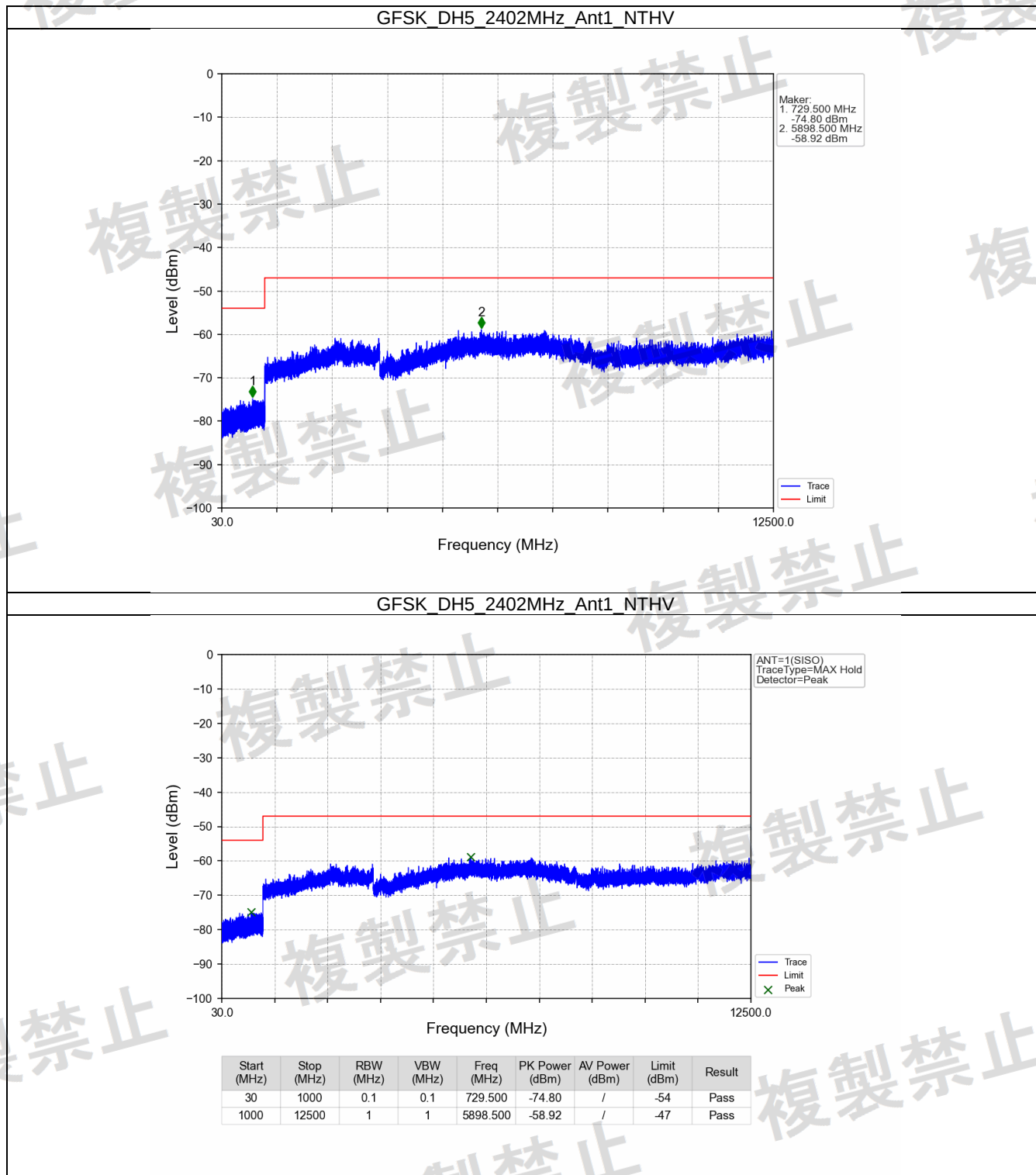


8DPSK 3DH5 2480MHz Ant1 NTLV

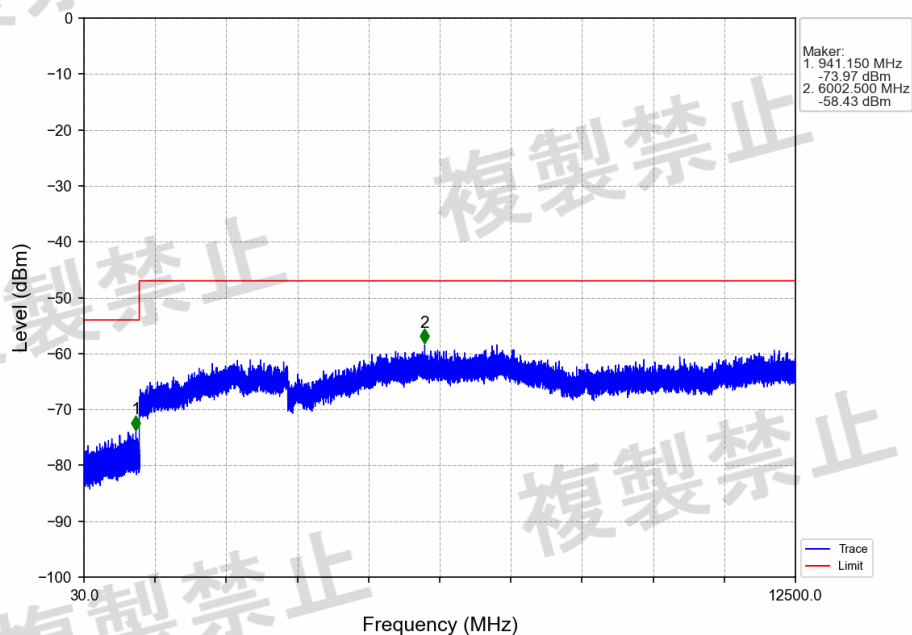


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	854.950	-74.77	/	-54	Pass
1000	12500	1	1	7160.000	-58.49	/	-47	Pass

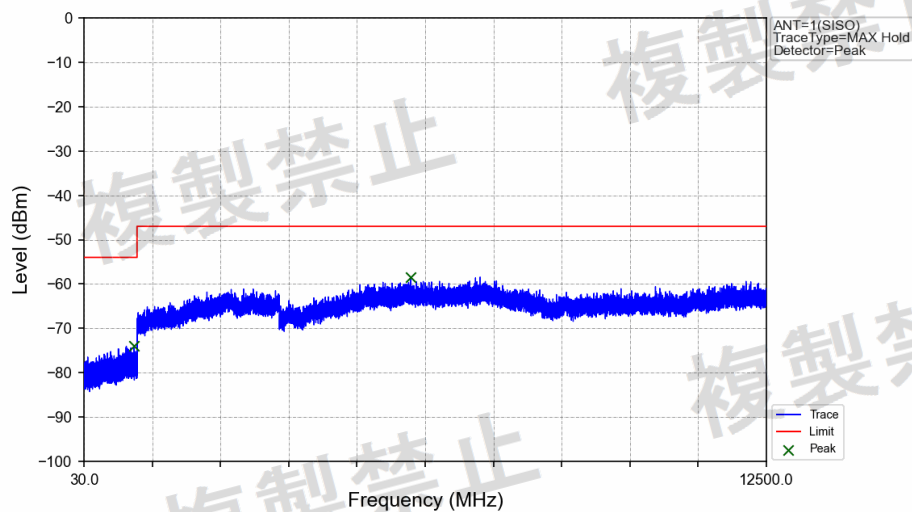
7.2.3 RxSe_NTHV



GFSK DH5 2480MHz Ant1 NTHV

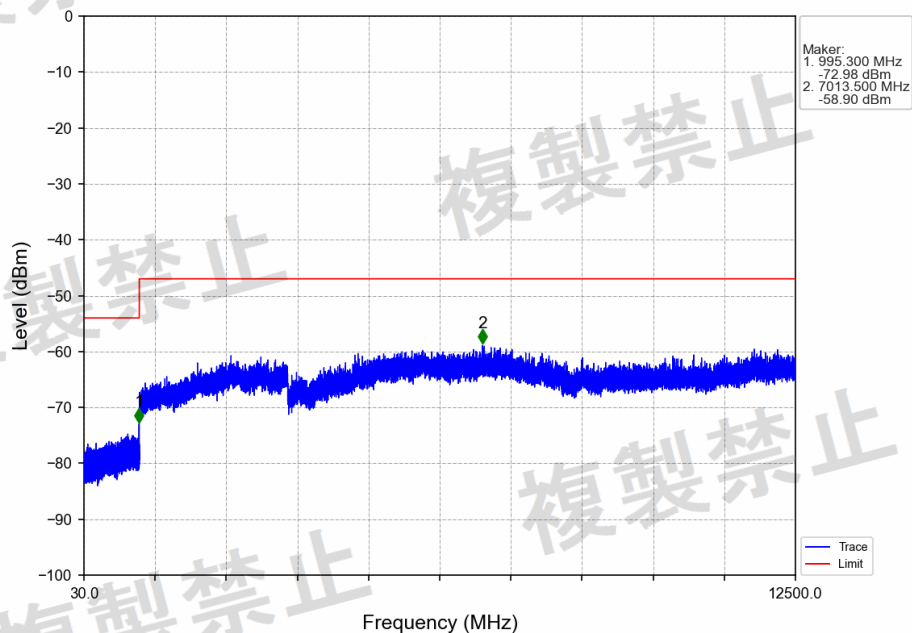


GFSK DH5 2480MHz Ant1 NTHV

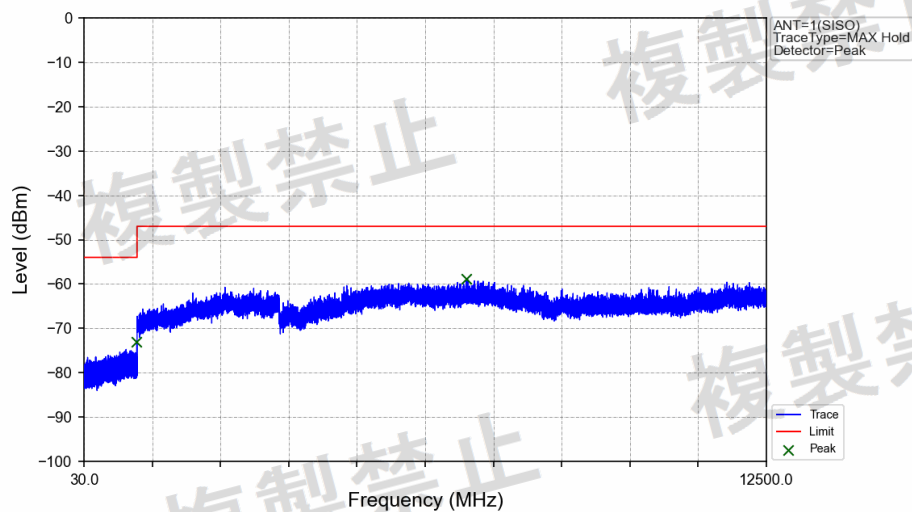


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	941.150	-73.97	/	-54	Pass
1000	12500	1	1	6002.500	-58.43	/	-47	Pass

Pi/4DQPSK 2DH5 2402MHz Ant1 NTHV

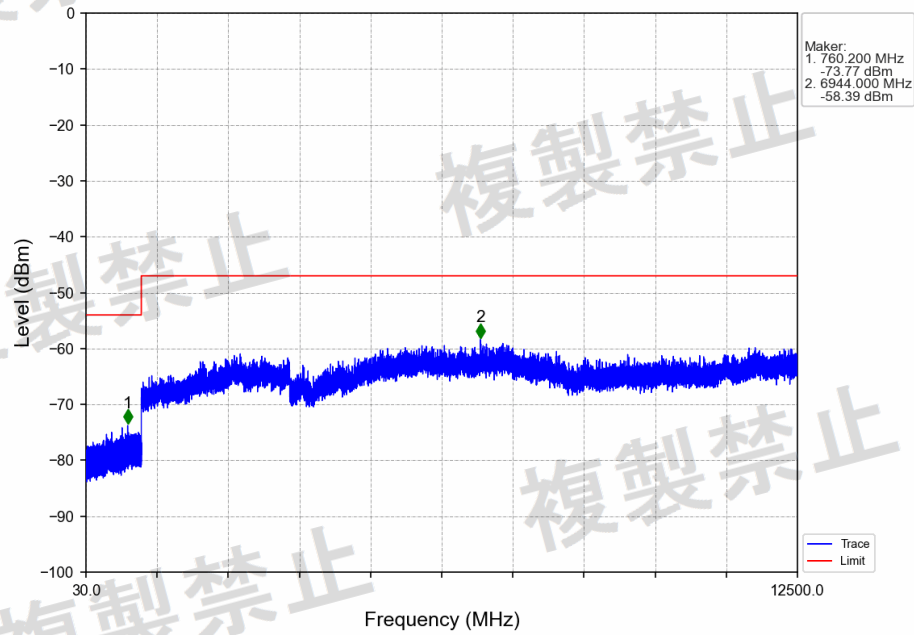


Pi/4DQPSK 2DH5 2402MHz Ant1 NTHV

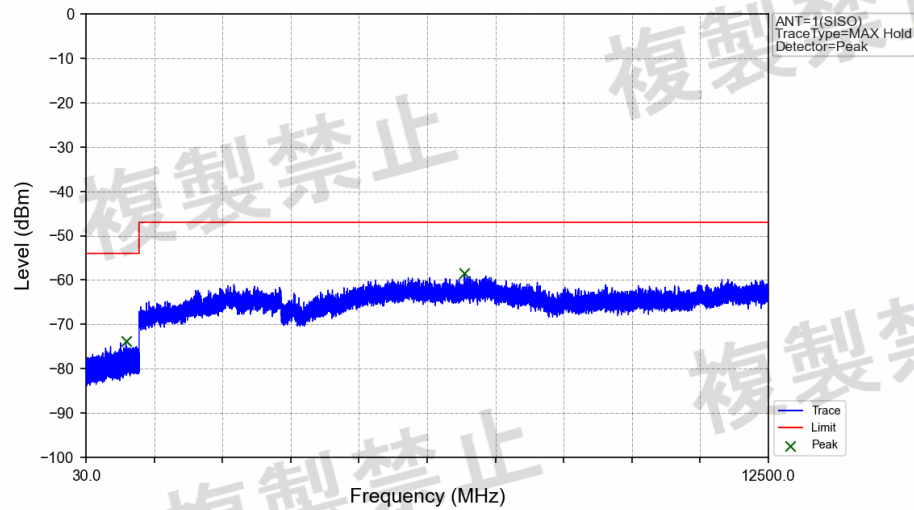


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	995.300	-72.98	/	-54	Pass
1000	12500	1	1	7013.500	-58.90	/	-47	Pass

Pi/4DQPSK 2DH5 2480MHz Ant1 NTHV

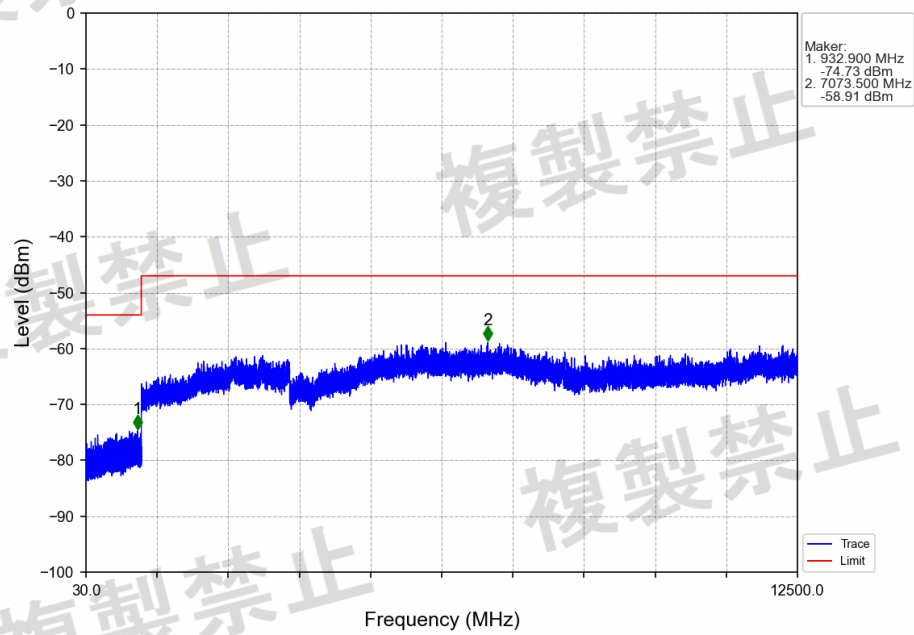


Pi/4DQPSK 2DH5 2480MHz Ant1 NTHV

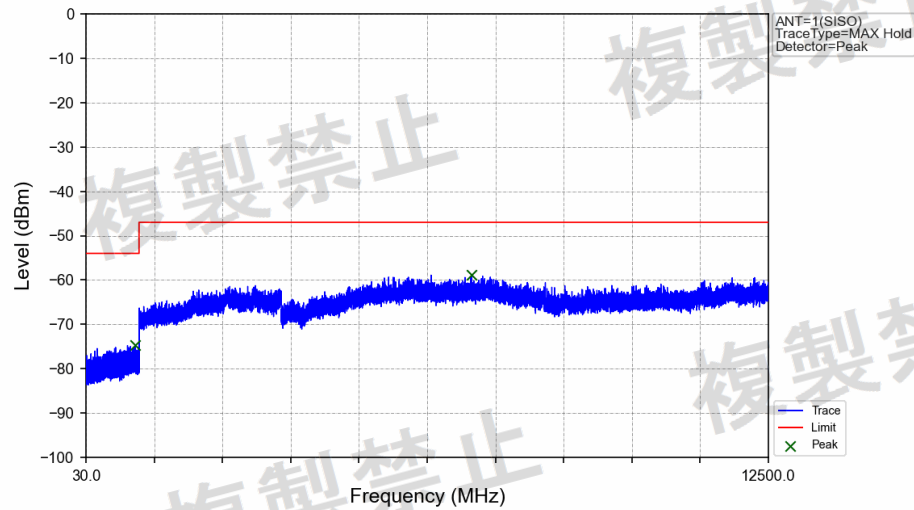


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	760.200	-73.77	/	-54	Pass
1000	12500	1	1	6944.000	-58.39	/	-47	Pass

8DPSK 3DH5 2402MHz Ant1 NTHV

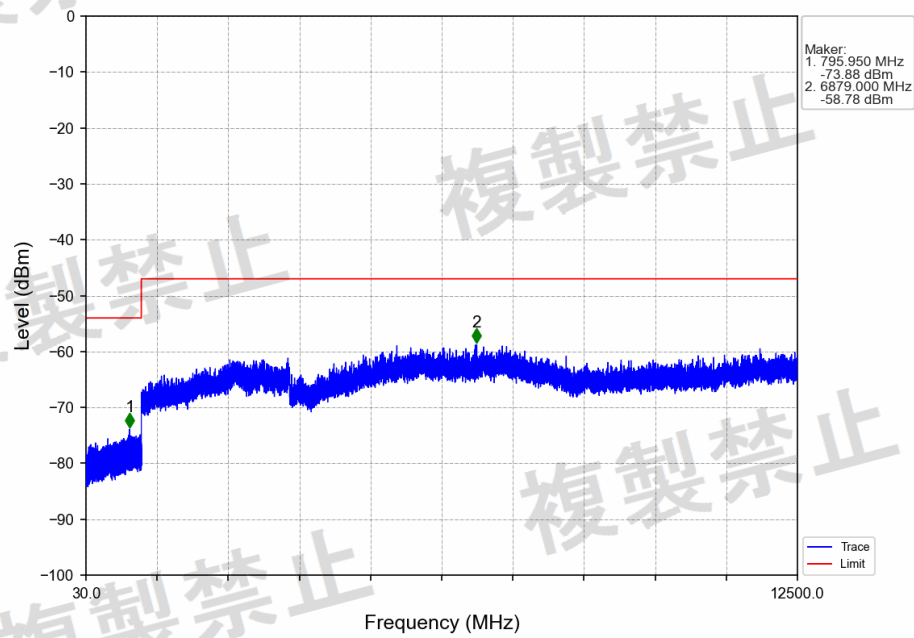


8DPSK 3DH5 2402MHz Ant1 NTHV

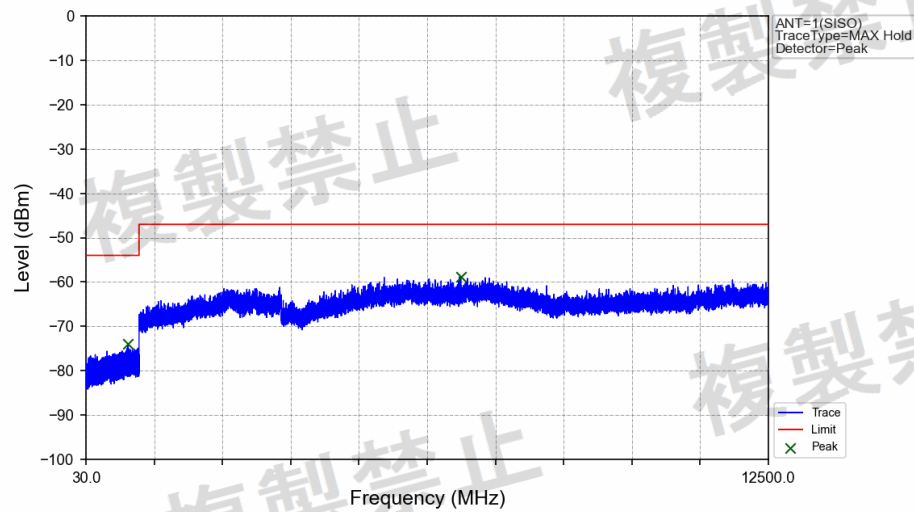


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	932.900	-74.73	/	-54	Pass
1000	12500	1	1	7073.500	-58.91	/	-47	Pass

8DPSK 3DH5 2480MHz Ant1 NTHV



8DPSK 3DH5 2480MHz Ant1 NTHV



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	795.950	-73.88	/	-54	Pass
1000	12500	1	1	6879.000	-58.78	/	-47	Pass

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