



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: GNSS Tracker

Test Model: GV75CG

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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A.1 -6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.708	≥ 0.5	Pass
		2440	1	0.716	≥ 0.5	Pass
		2480	1	0.713	≥ 0.5	Pass



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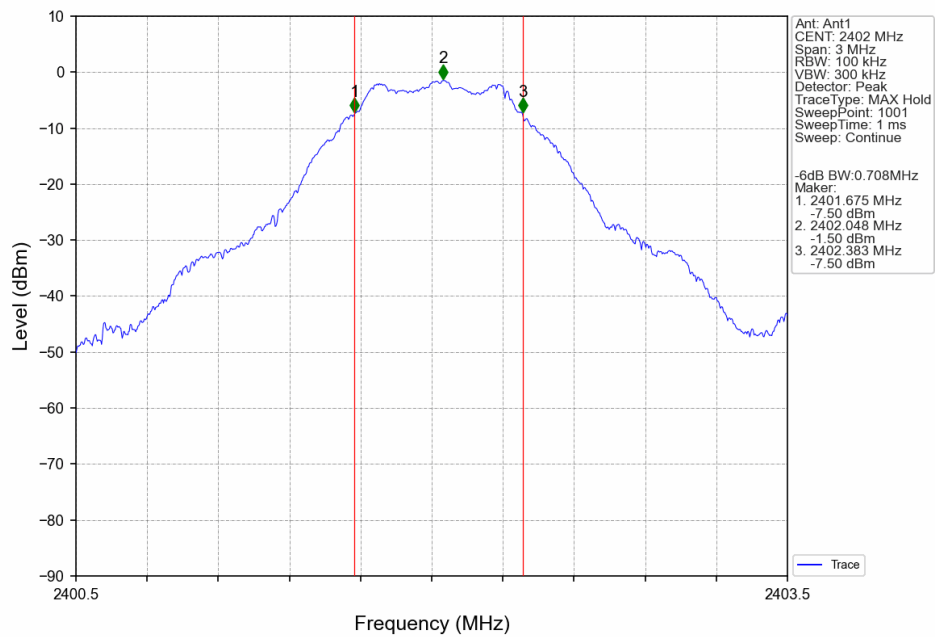
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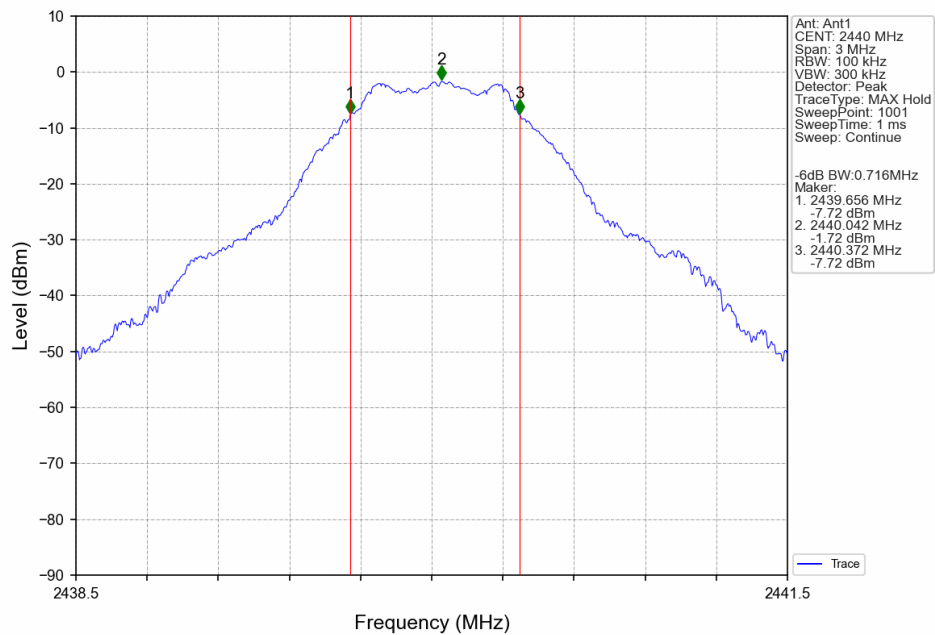
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1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

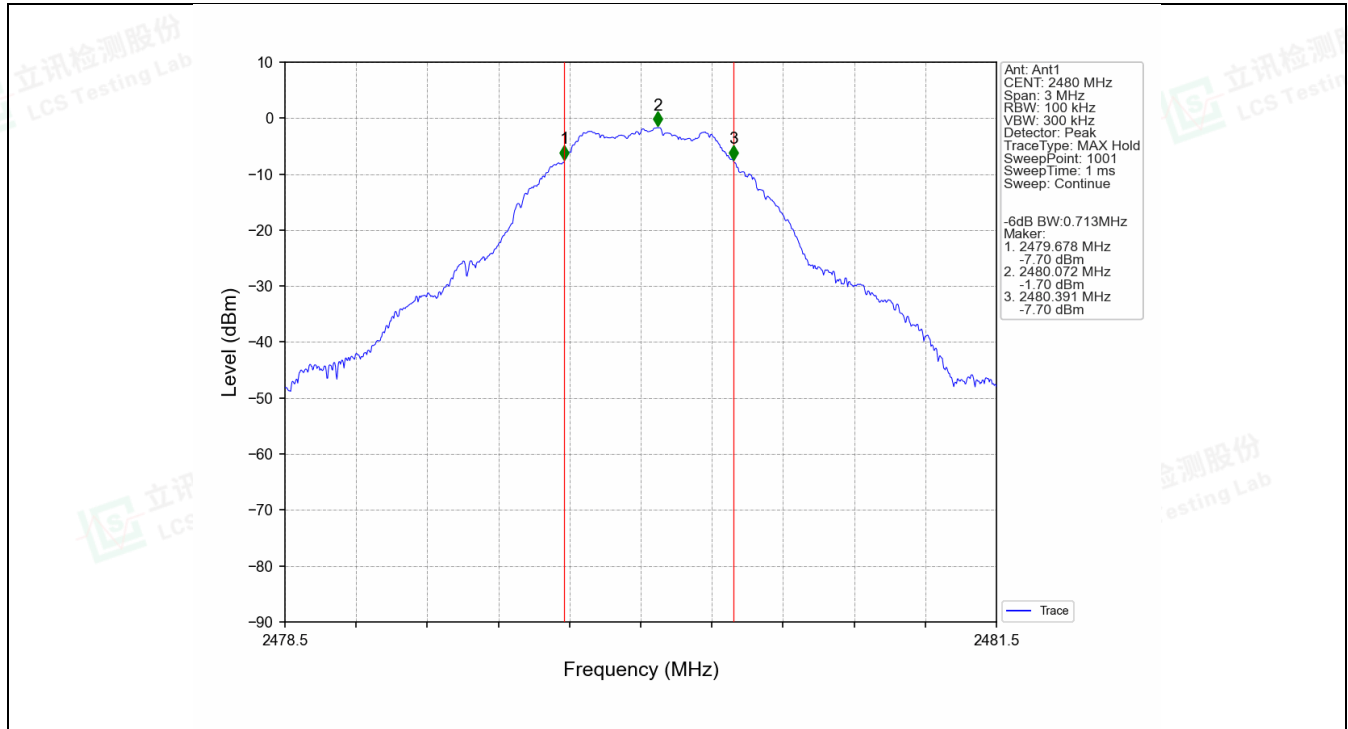


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A.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.31	<=30	Pass
		2440	-1.27	<=30	Pass
		2480	-1.38	<=30	Pass



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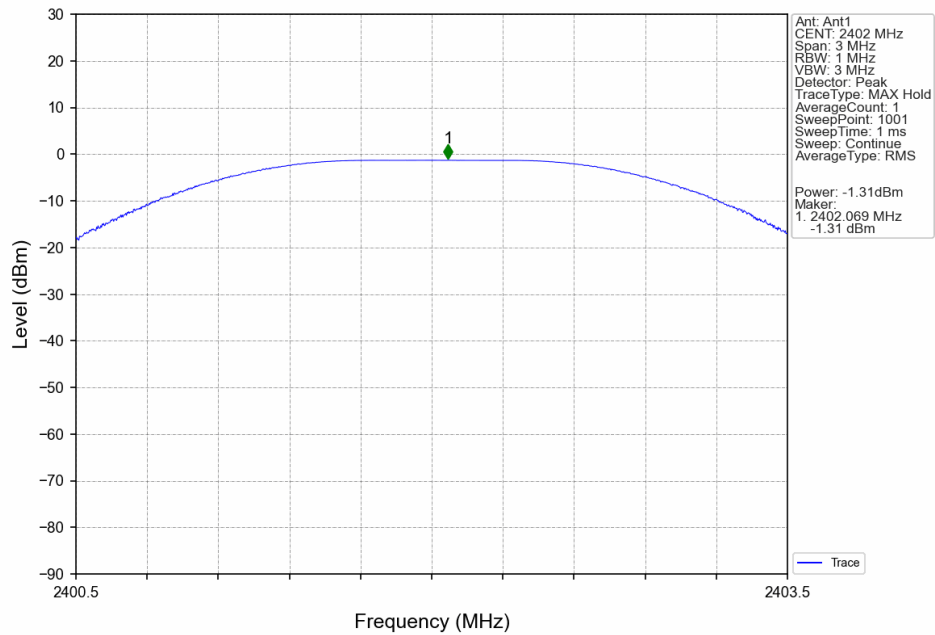
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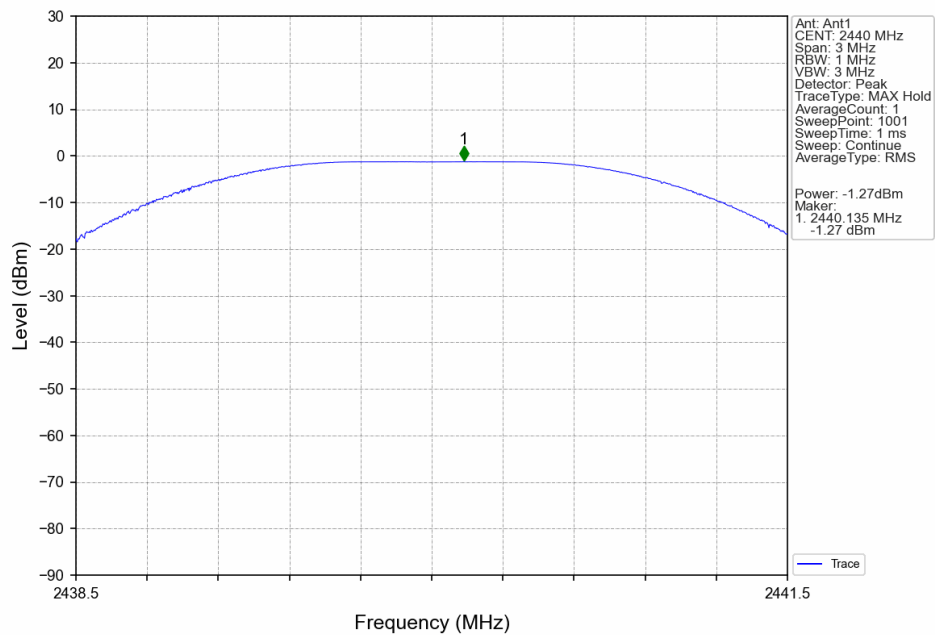
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1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

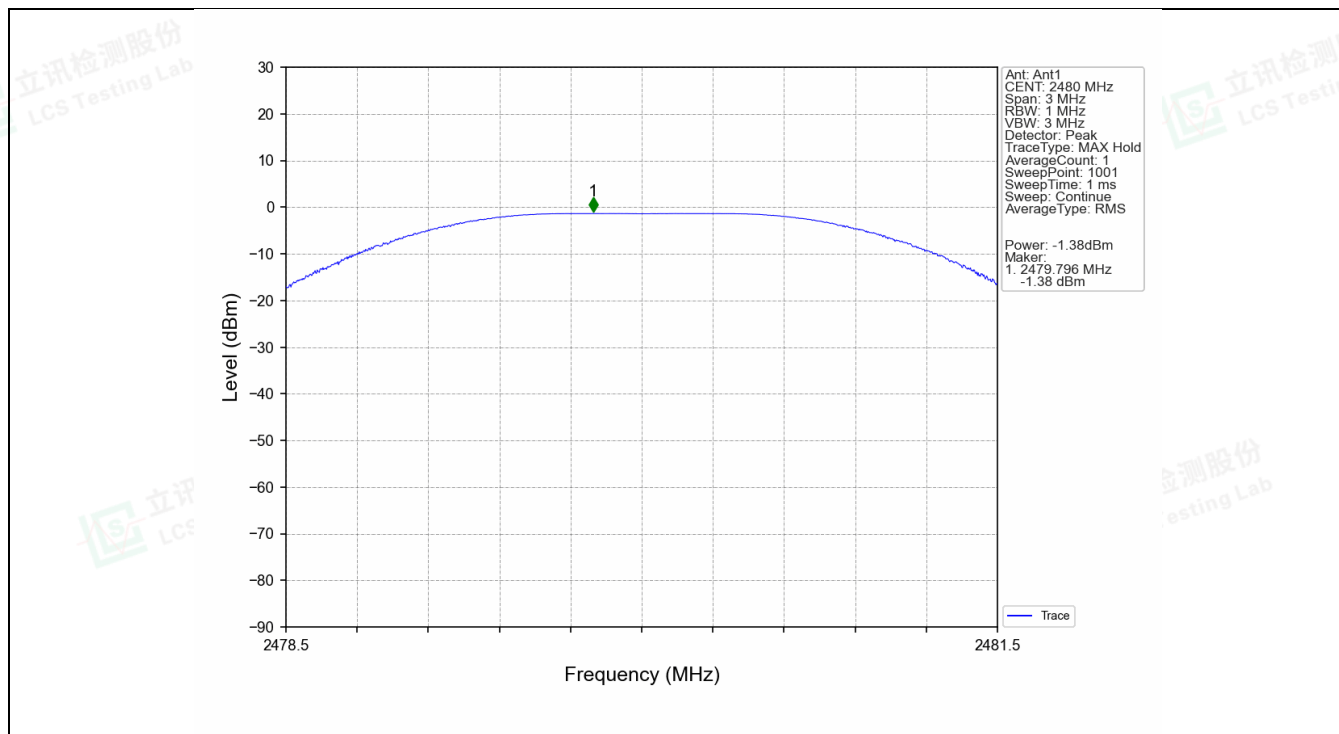


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A.3 Maximum Power Spectral Density Level

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.04	<=8	Pass
		2440	-16.82	<=8	Pass
		2480	-15.63	<=8	Pass

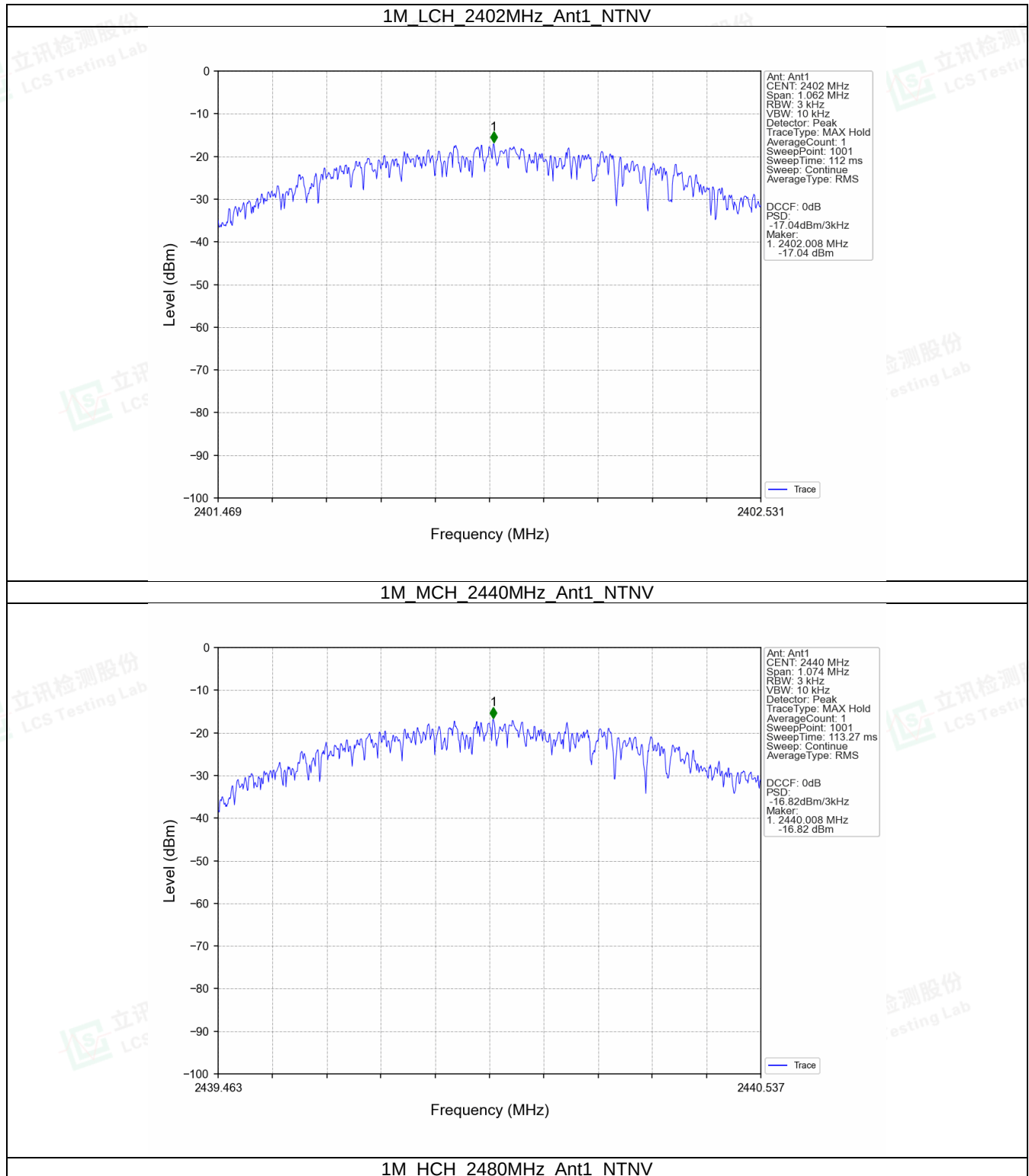


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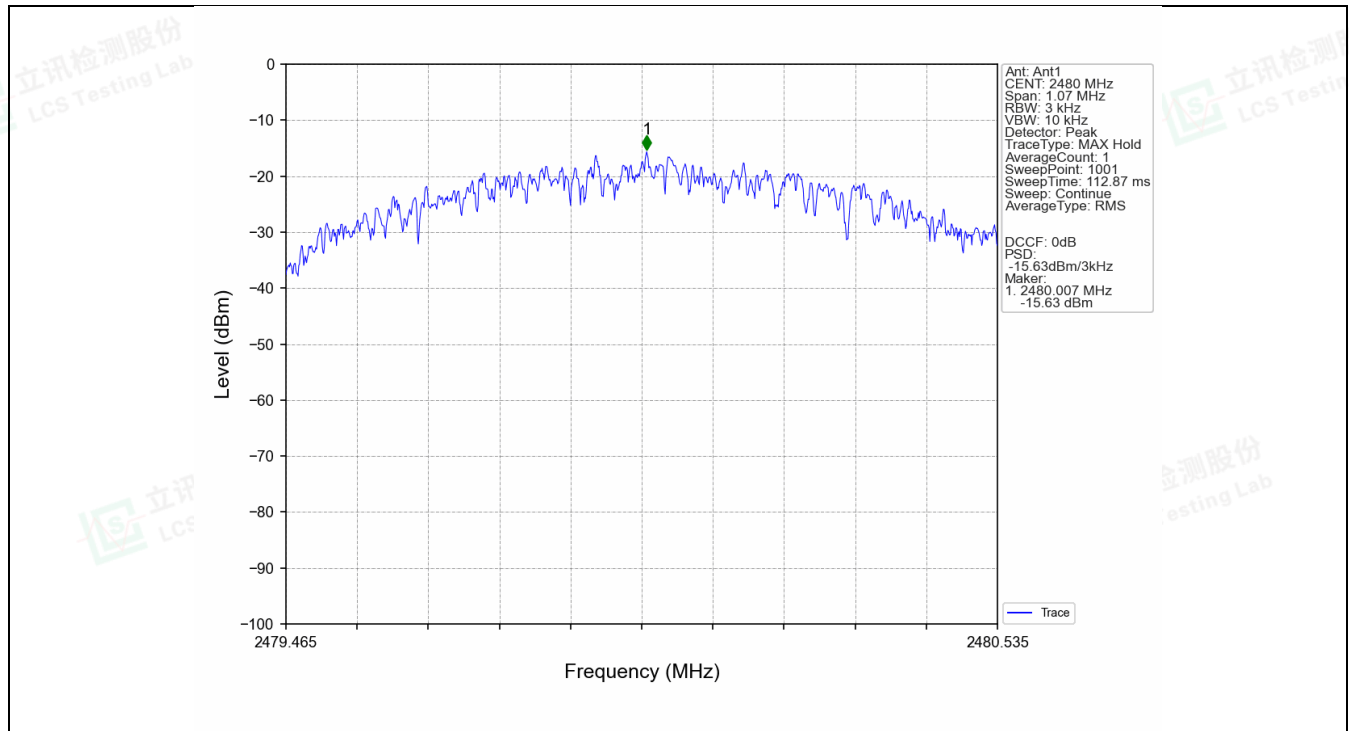


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A.4 Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.62	-21.62	Pass
		2440	1	-1.62	-21.62	Pass
		2480	1	-1.62	-21.62	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						



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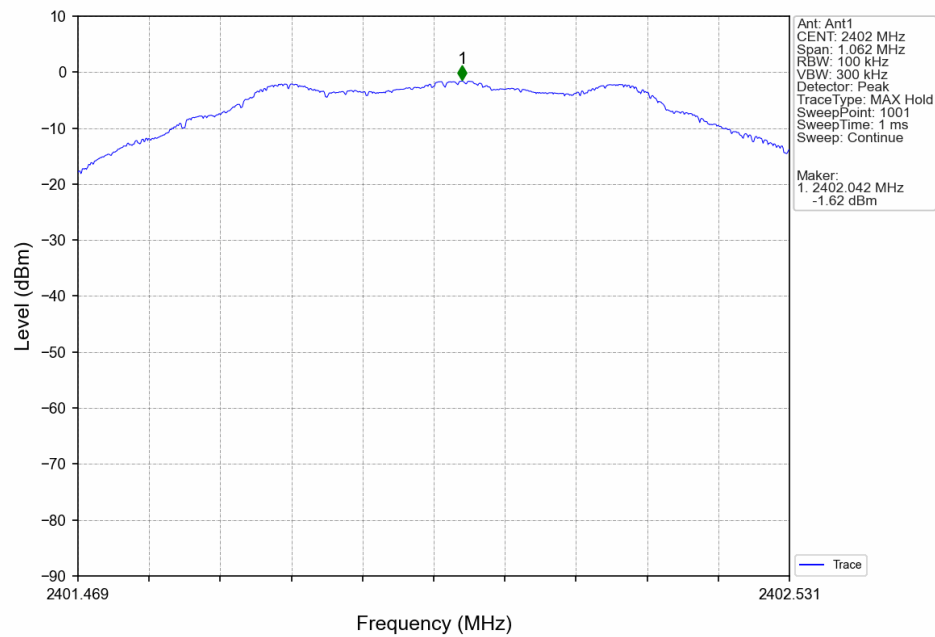
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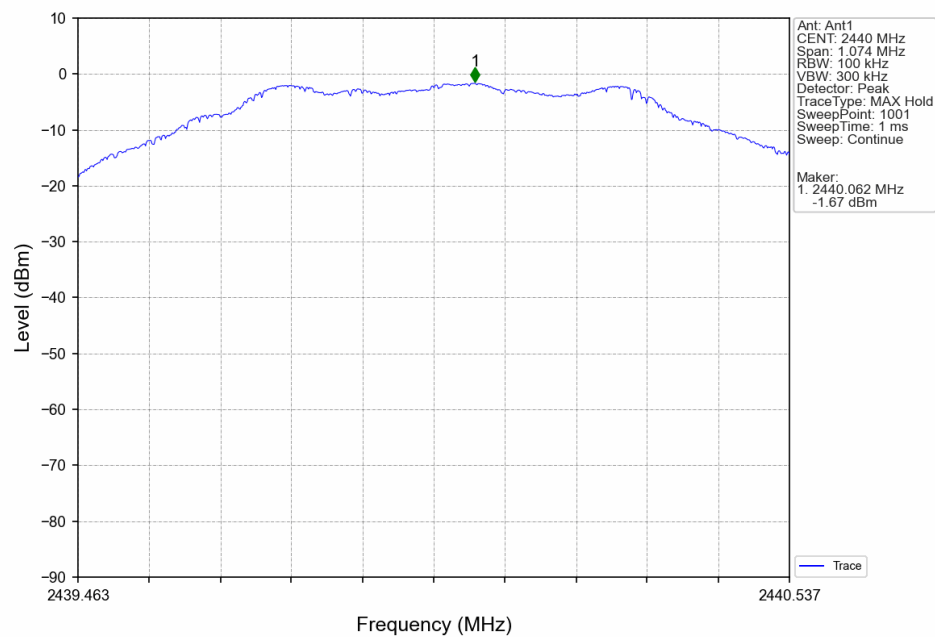
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1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

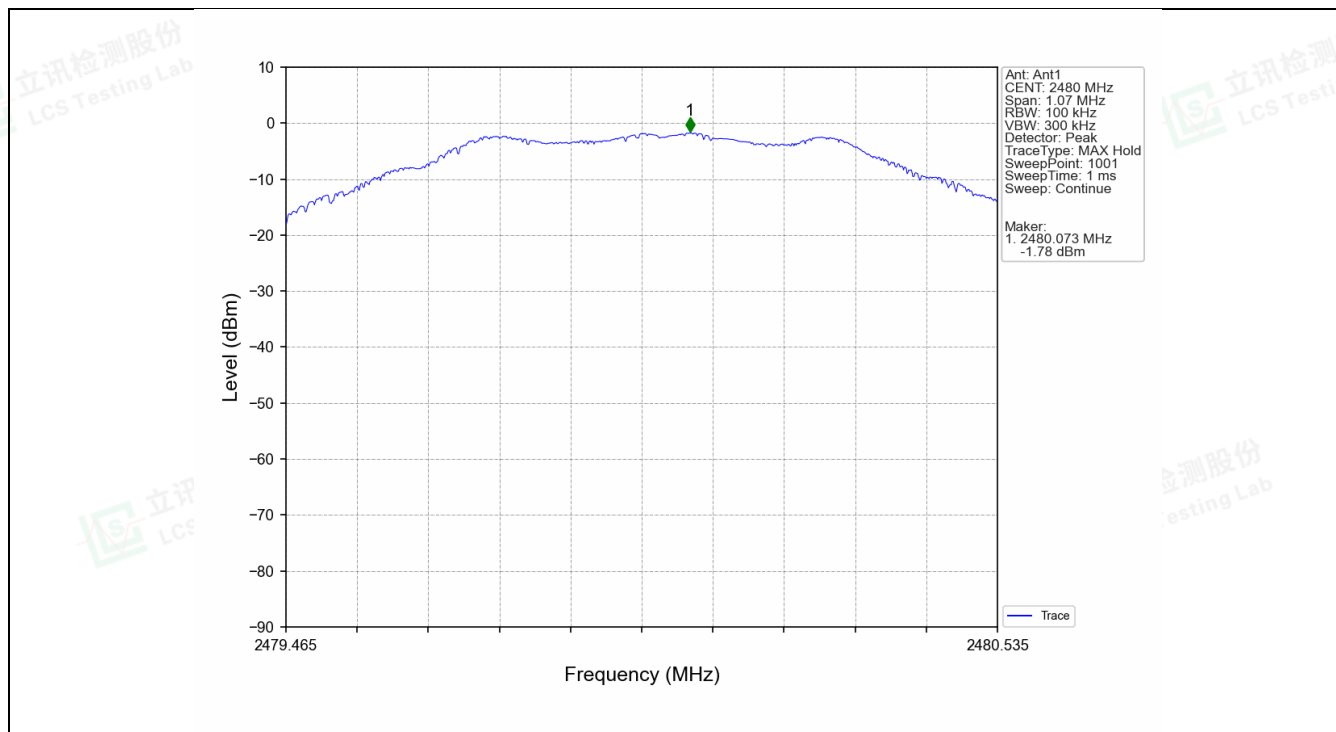


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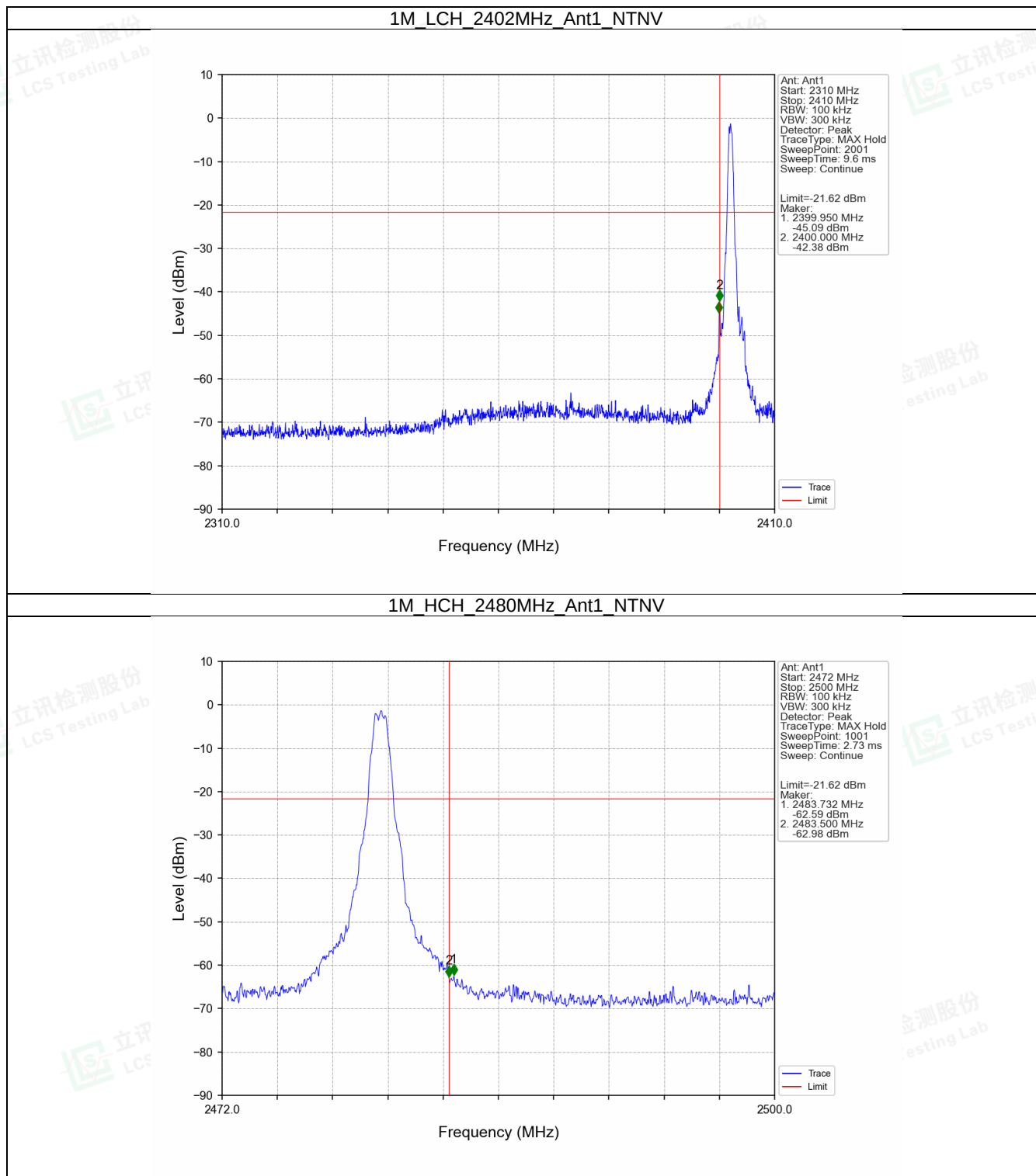


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A.5 Conducted RF Spurious Emission

Mode	Tx Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-1.62
		2440	1	-1.67
		2480	1	-1.78
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.				



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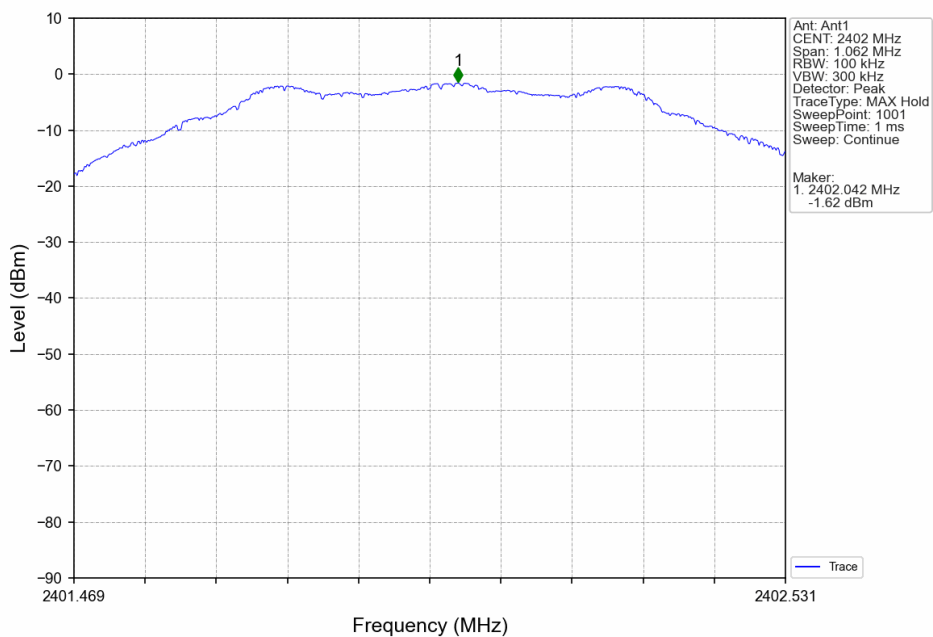
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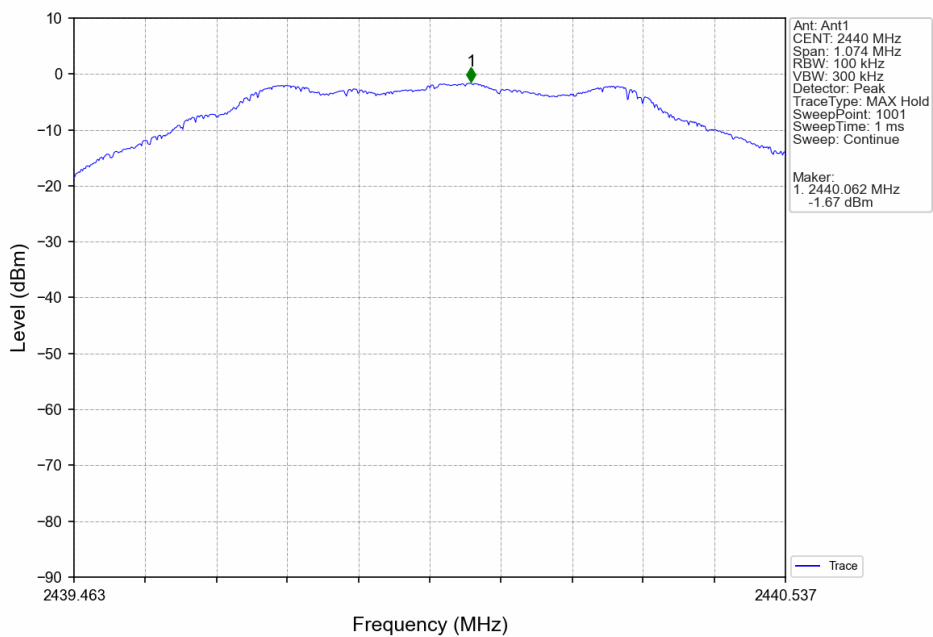
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1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

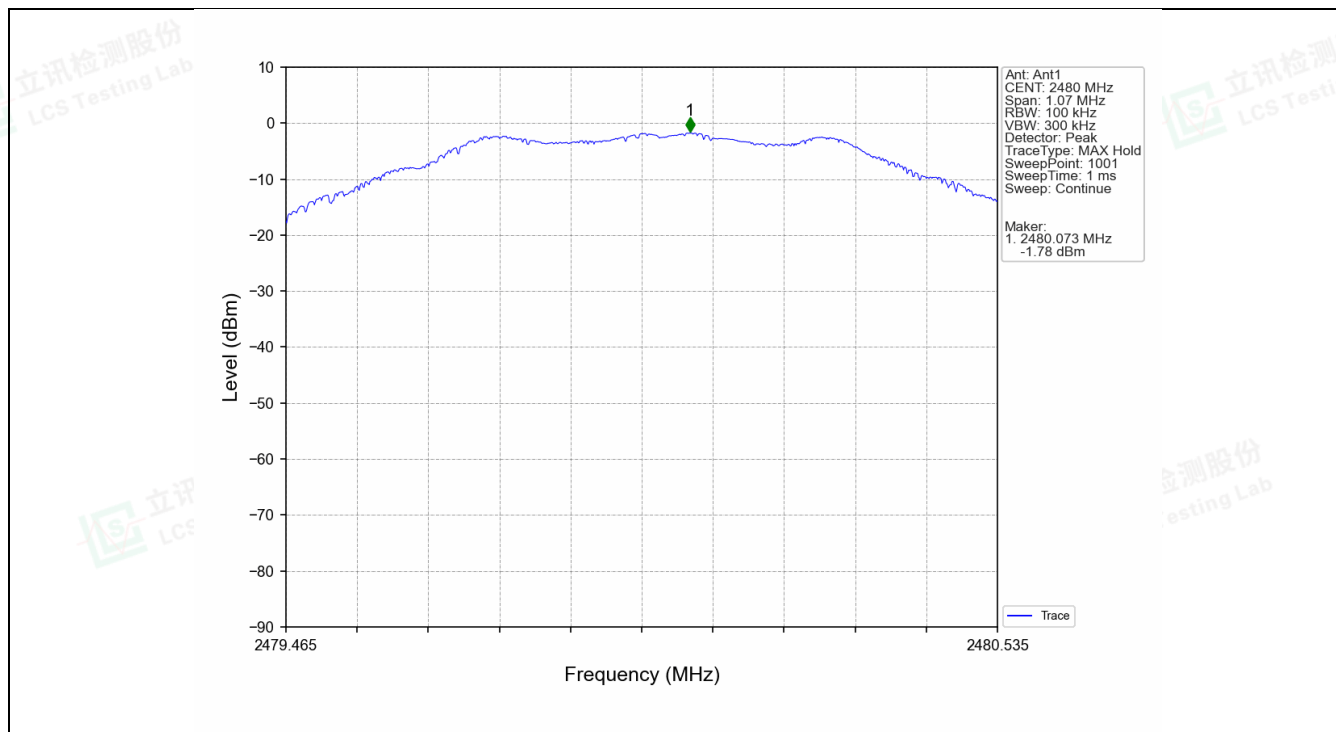


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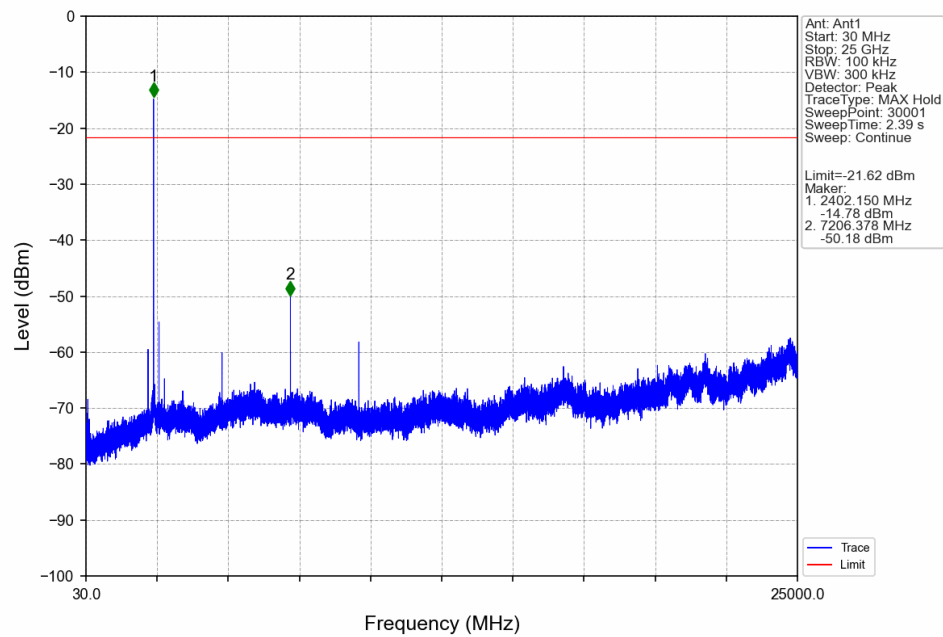
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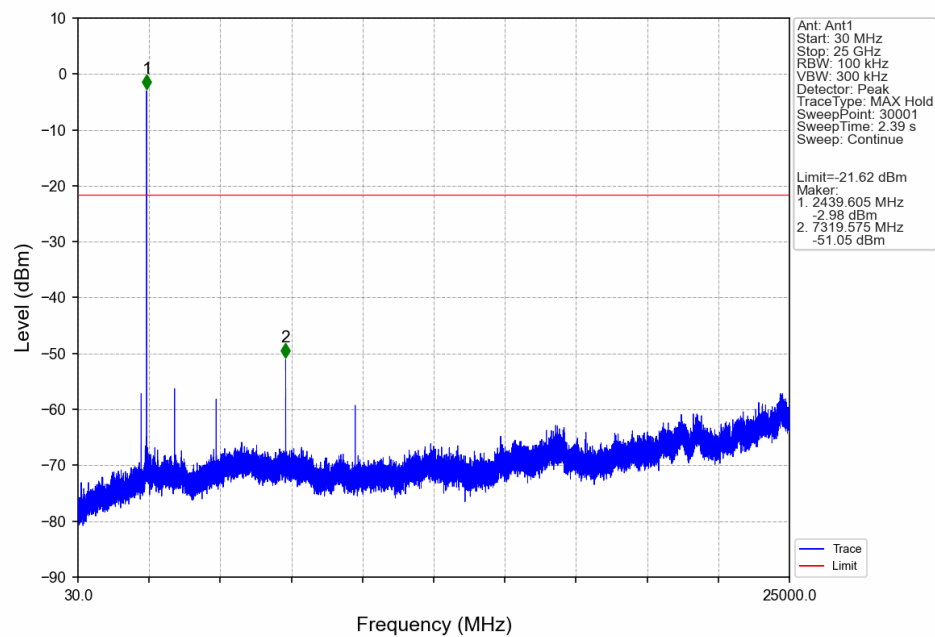
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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

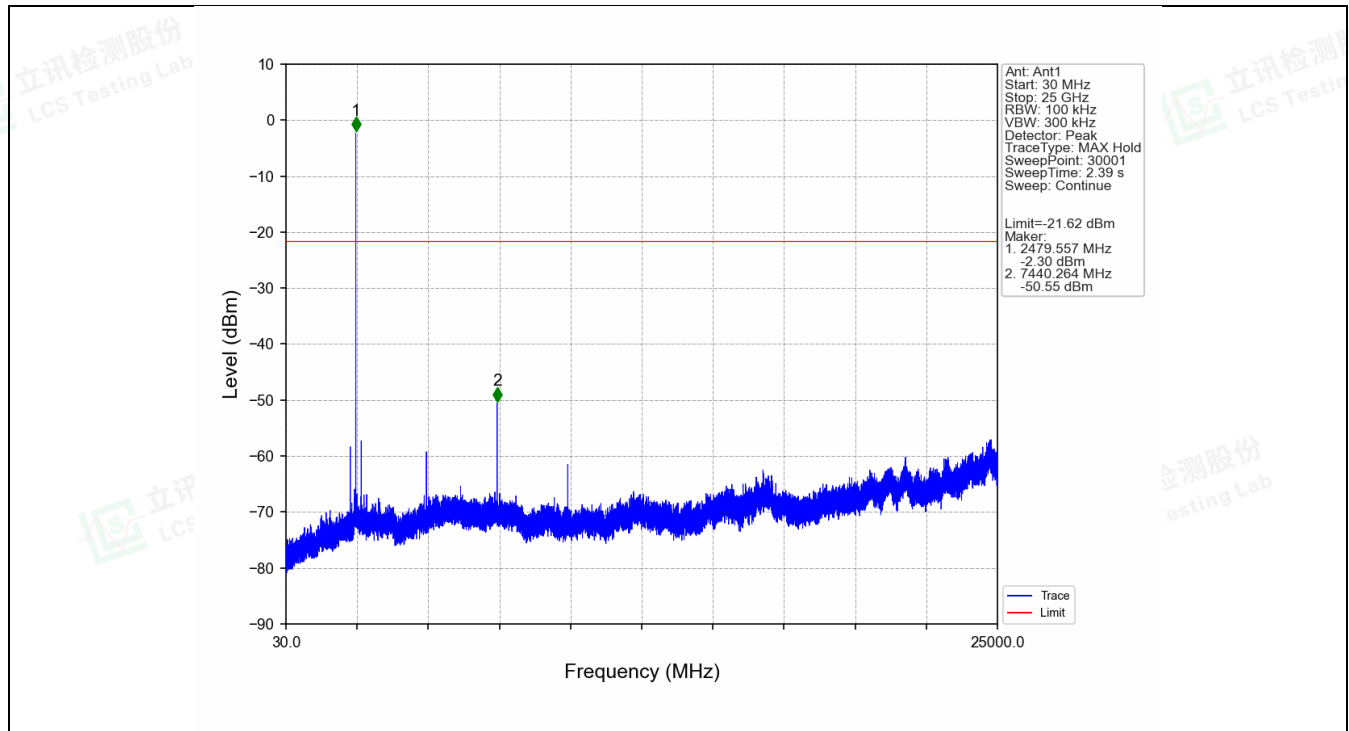


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A.6 Duty Cycle

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.536	1.249	42.91	3.67	0.02
		2440	0.536	1.249	42.91	3.67	0.02
		2480	0.537	1.250	42.96	3.67	0.02

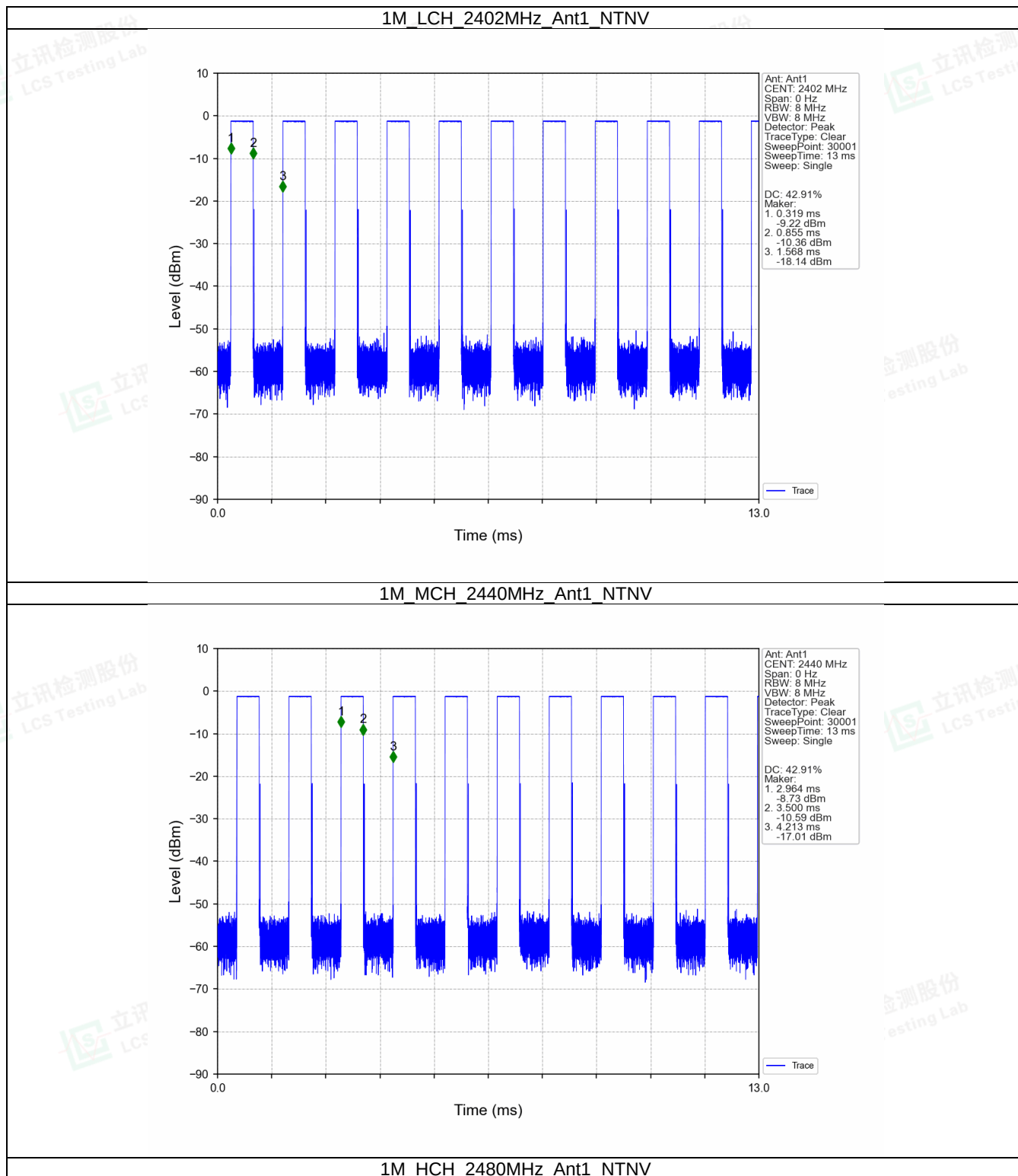


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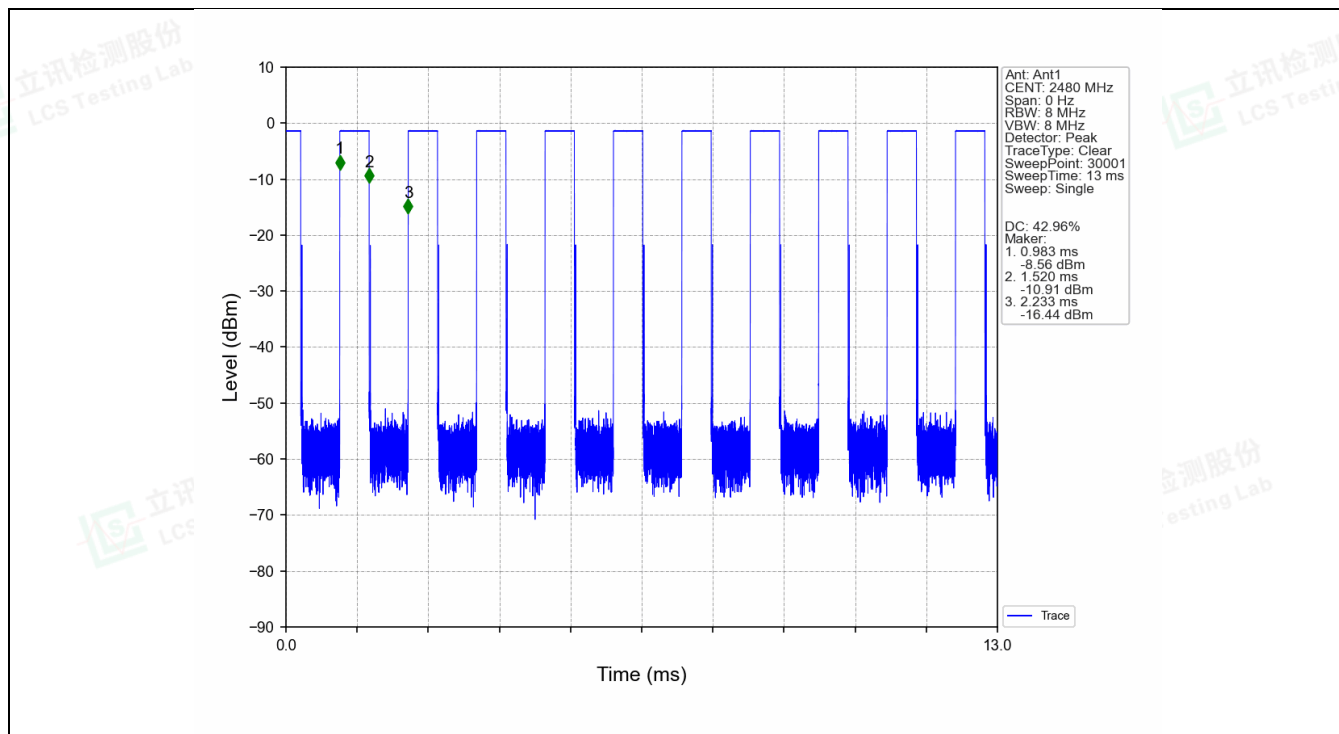


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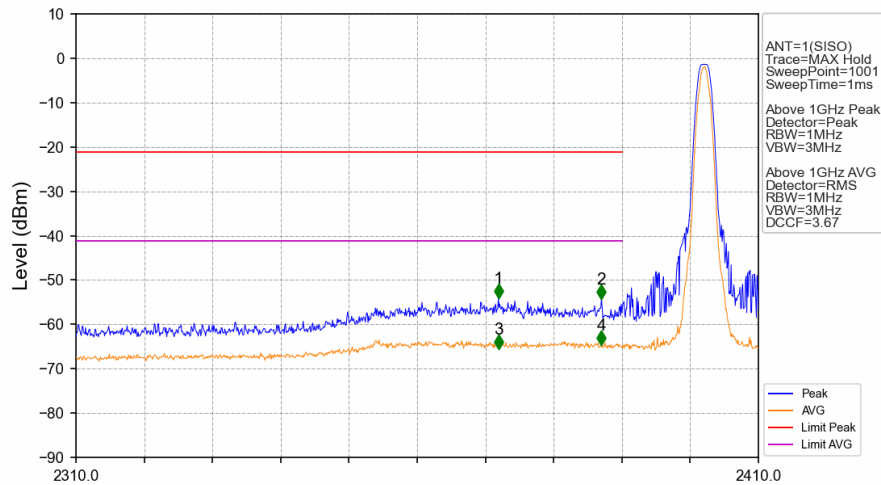
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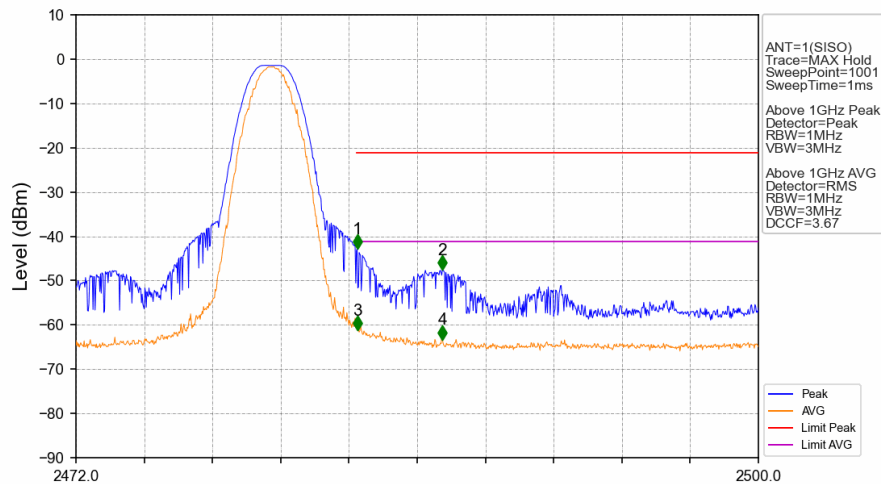
A.7 Restrict Band

1M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2371.900	-54.15	-21.20	32.95	Pass	Peak	3	2371.900	-65.46	-41.20	24.26	Pass	AVG
2	2387.000	-54.19	-21.20	32.99	Pass	Peak	4	2387.000	-64.70	-41.20	23.50	Pass	AVG

1M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2483.536	-42.77	-21.20	21.57	Pass	Peak	3	2483.536	-61.13	-41.20	19.93	Pass	AVG
2	2487.036	-47.47	-21.20	26.27	Pass	Peak	4	2487.036	-63.26	-41.20	22.06	Pass	AVG



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