



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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## 5. Spurious Emission & Band Edges

### 5.1 B2\_1.4MHz

#### 5.1.1 Test Result

Band: 2 / Bandwidth: 1.4MHz / NTV							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1850.7	1	0	Refer To Test Graph		Pass	
		6	0	Refer To Test Graph		Pass	
	1909.3	1880	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass	
			5	Refer To Test Graph		Pass	
			6	0	Refer To Test Graph		Pass
16QAM	1850.7	1	0	Refer To Test Graph		Pass	
		6	0	Refer To Test Graph		Pass	
	1909.3	1880	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass	
			5	Refer To Test Graph		Pass	
			6	0	Refer To Test Graph		Pass
64QAM	1850.7	1	0	Refer To Test Graph		Pass	
		6	0	Refer To Test Graph		Pass	
	1909.3	1880	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass	
			5	Refer To Test Graph		Pass	
			6	0	Refer To Test Graph		Pass



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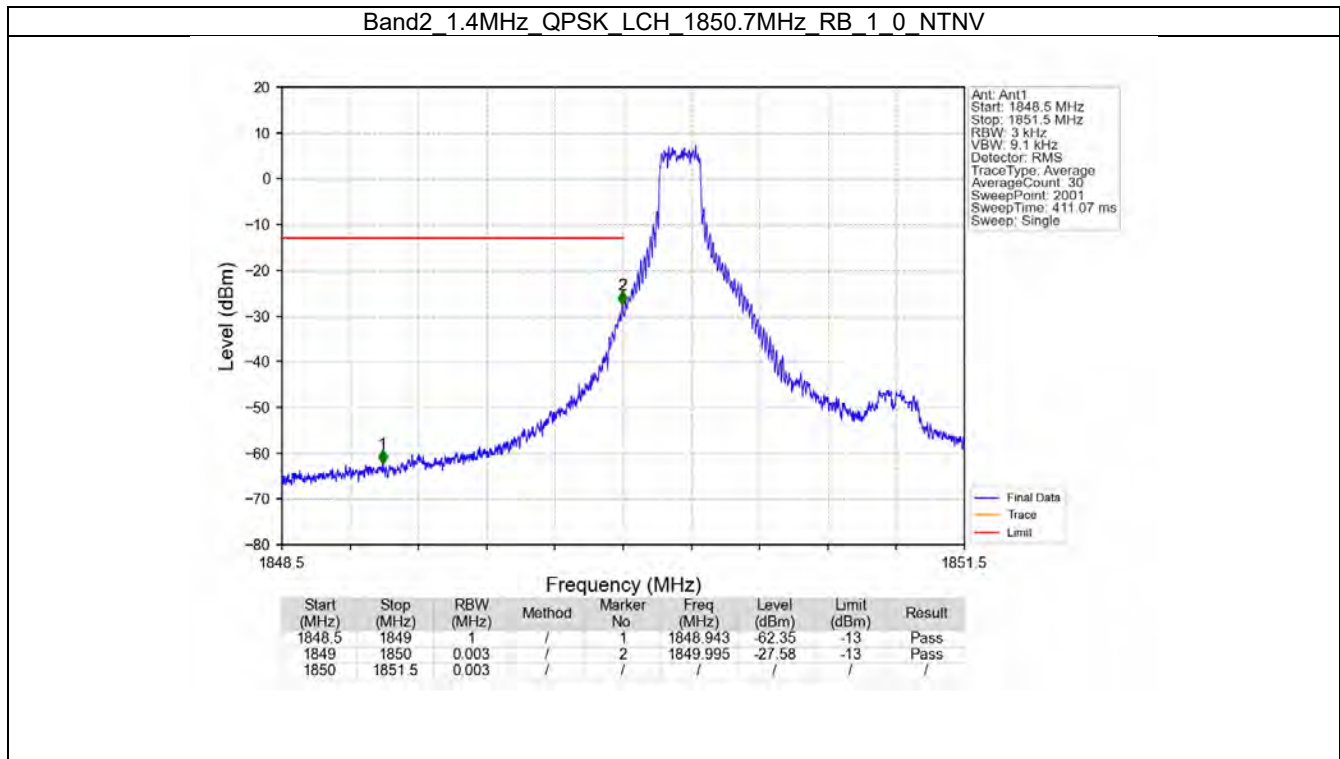
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5.1.2 Test Graph



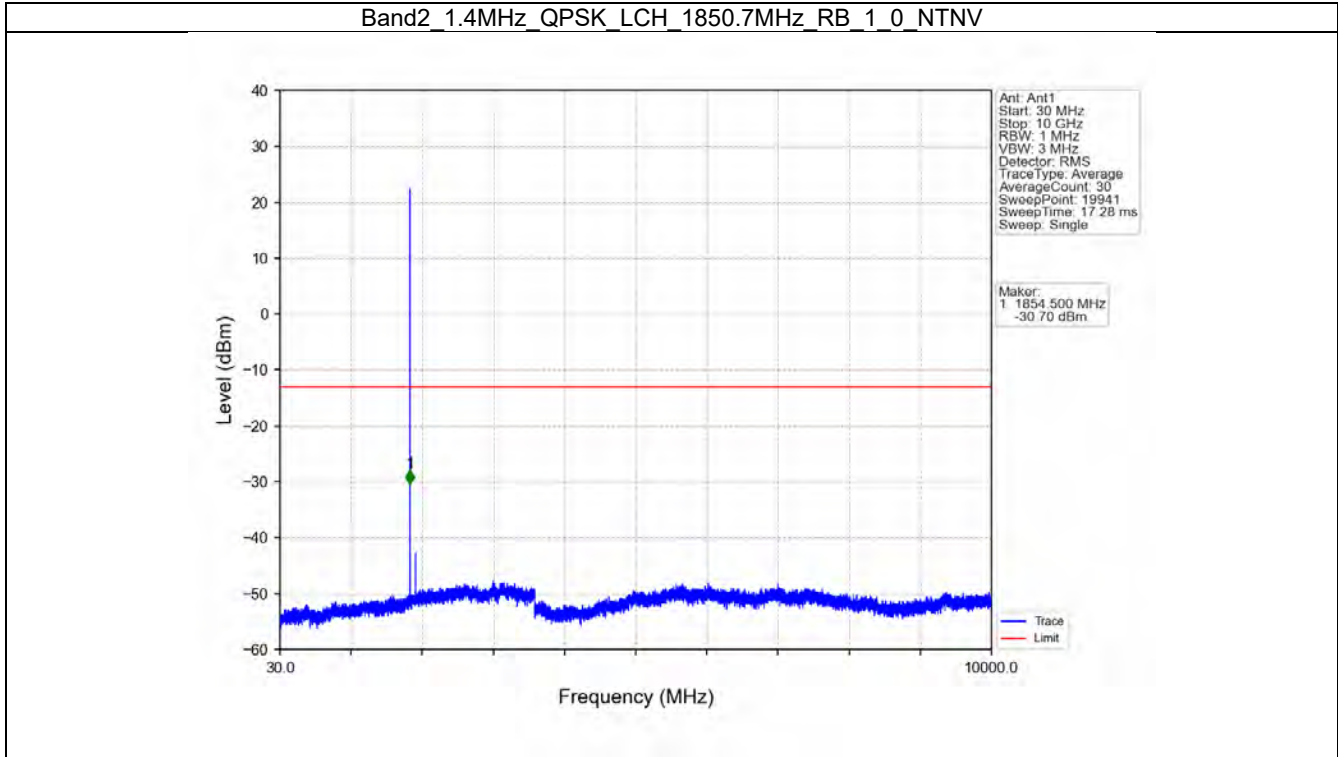
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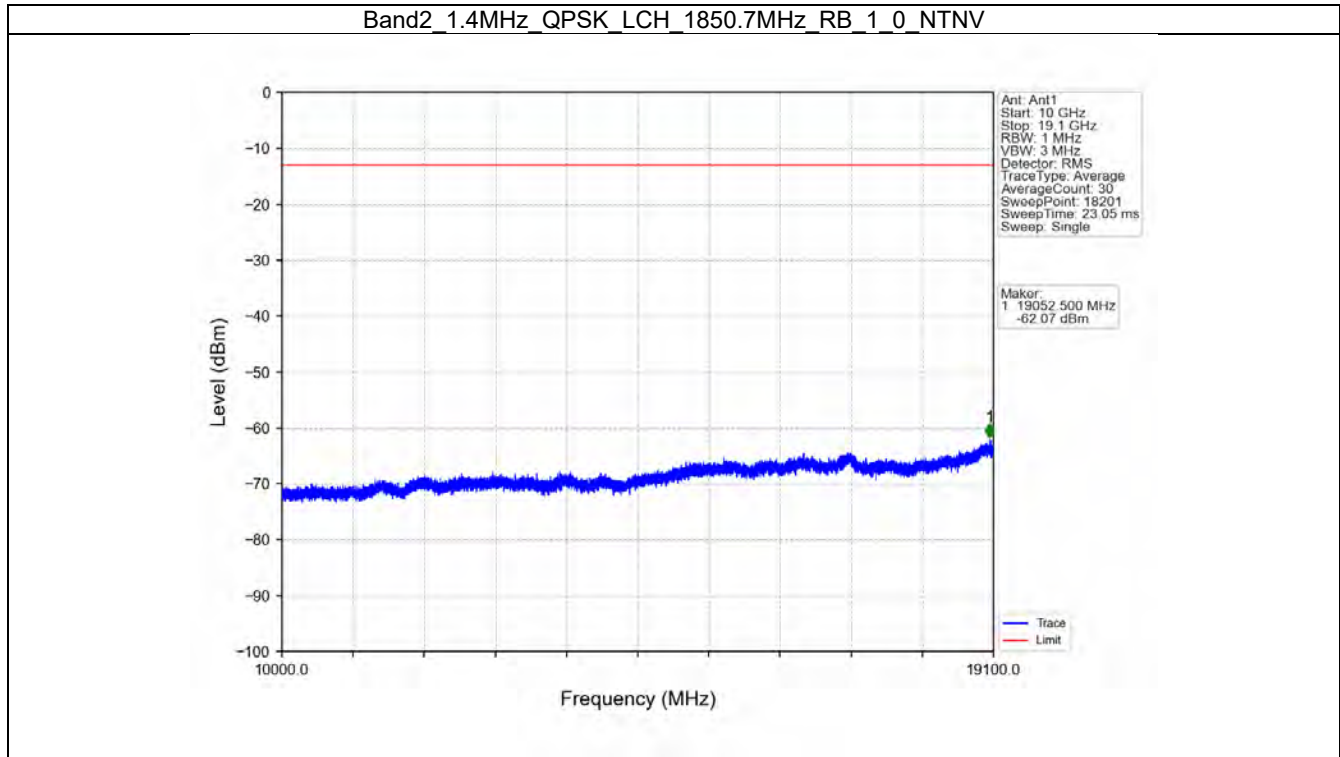


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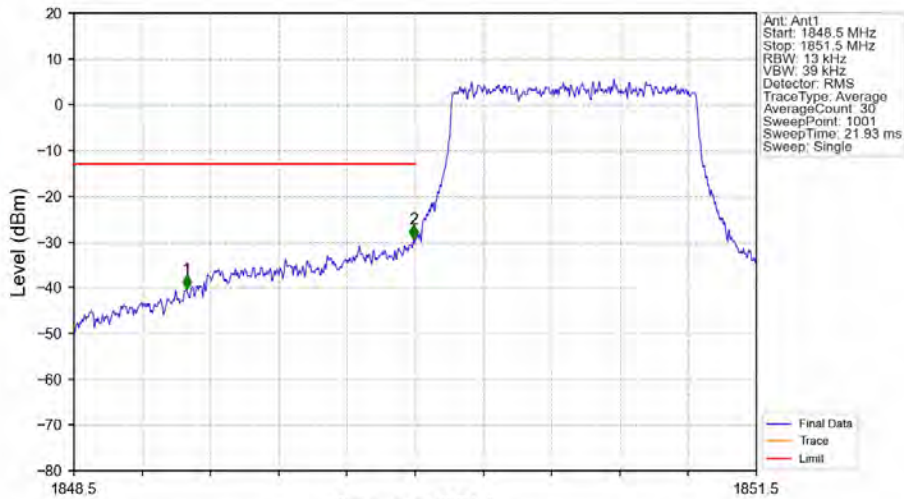
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Band2\_1.4MHz\_QPSK\_LCH\_1850.7MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1848.5	1849	1	/	1	1848.995	-40.28	-13	Pass
1849	1850	0.013	/	2	1849.994	-29.44	-13	Pass
1850	1851.5	0.013	/	/	/	/	/	/



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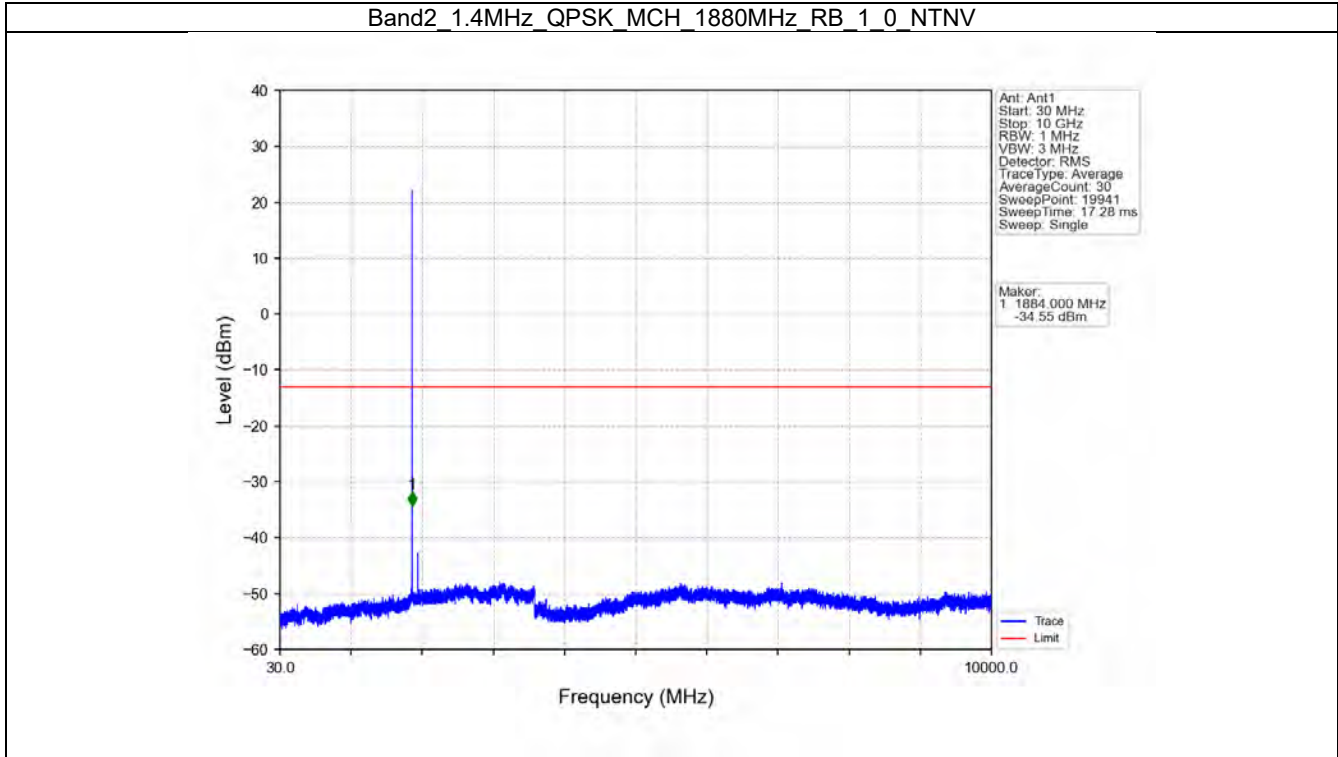
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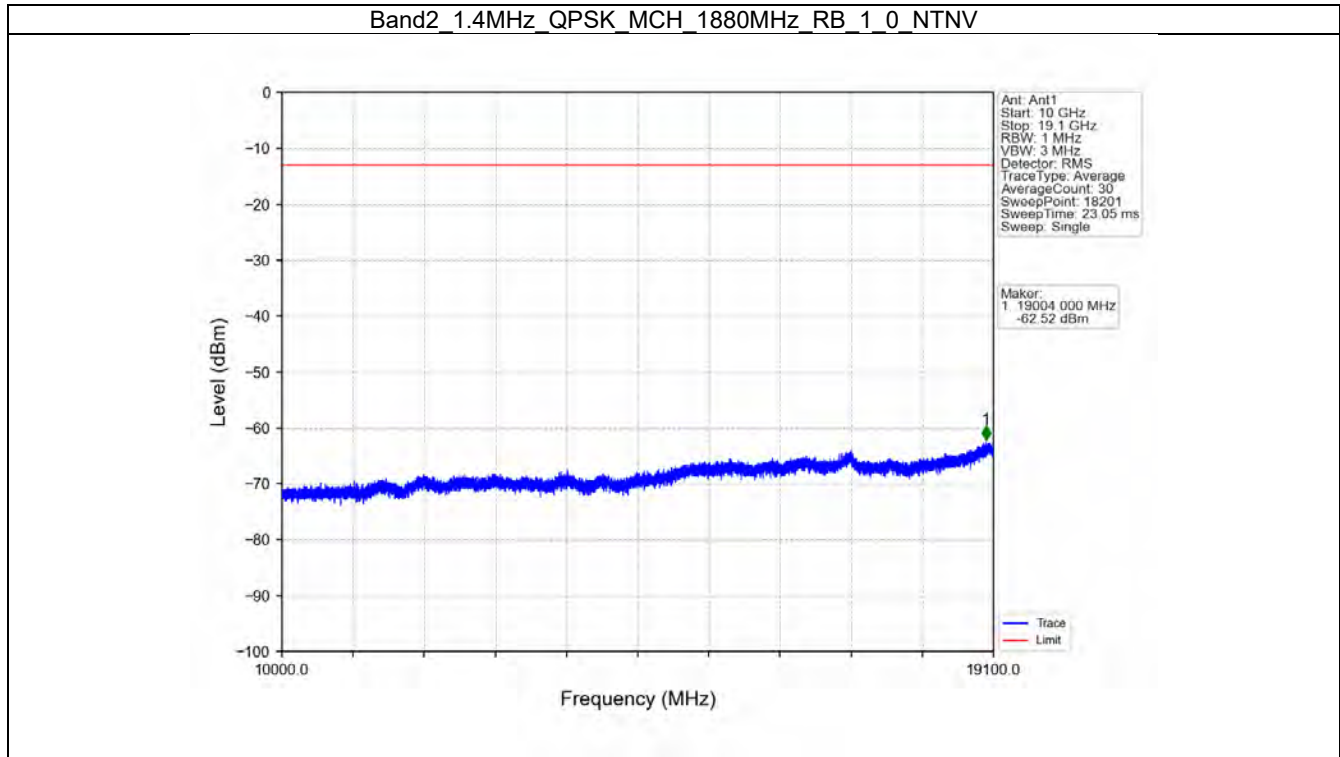
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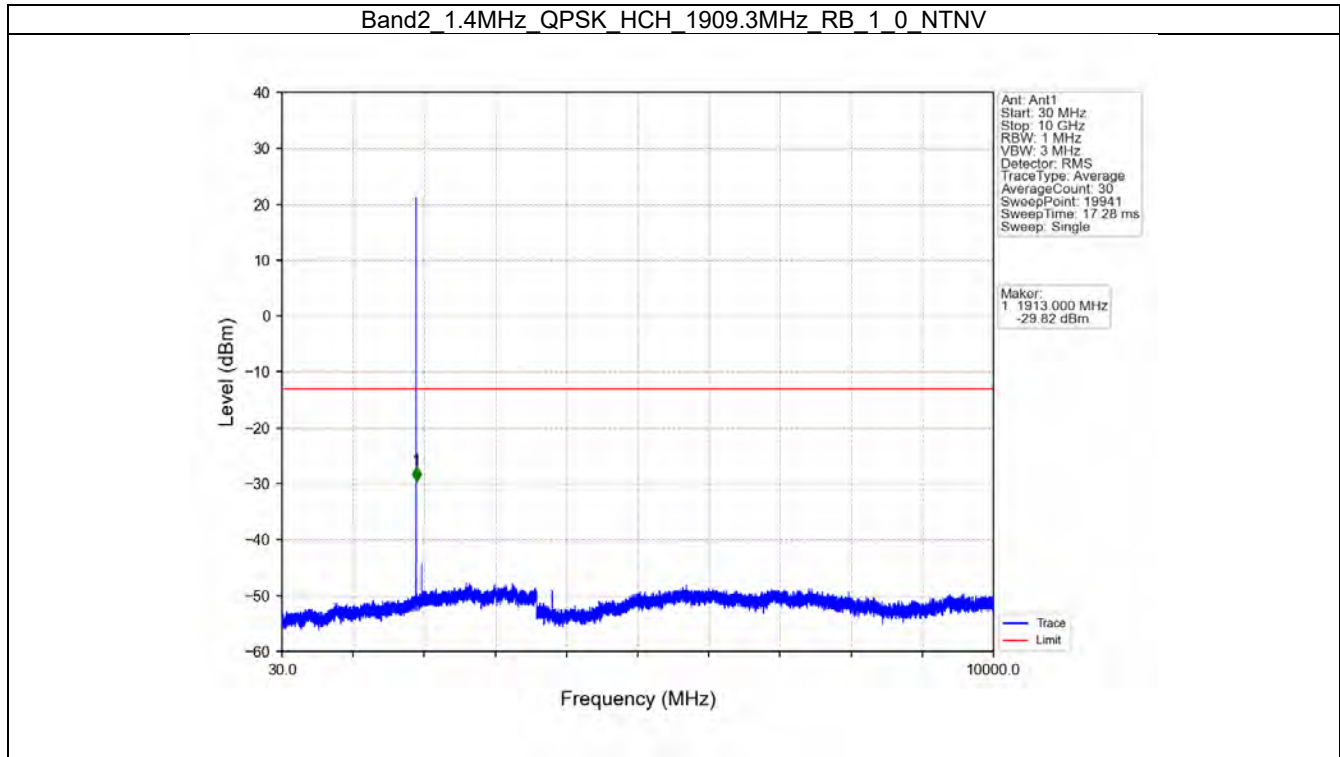


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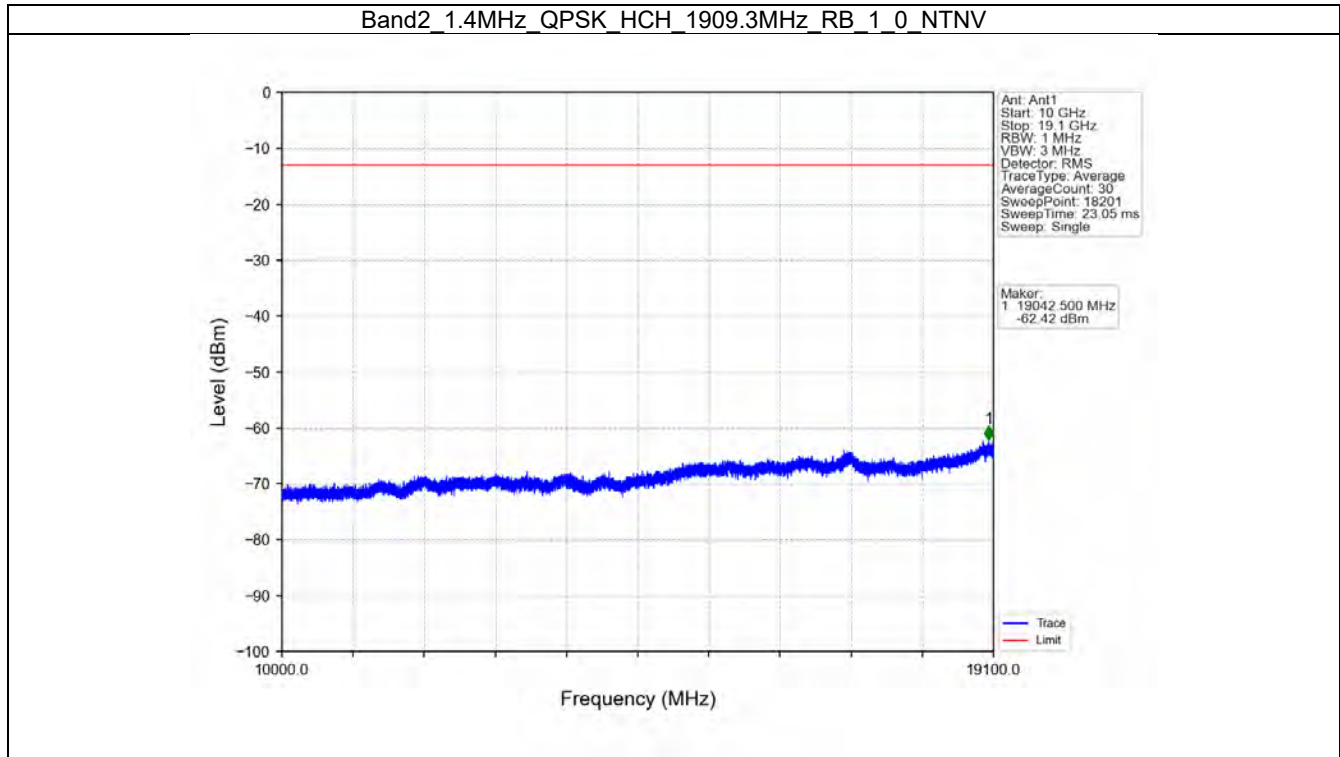


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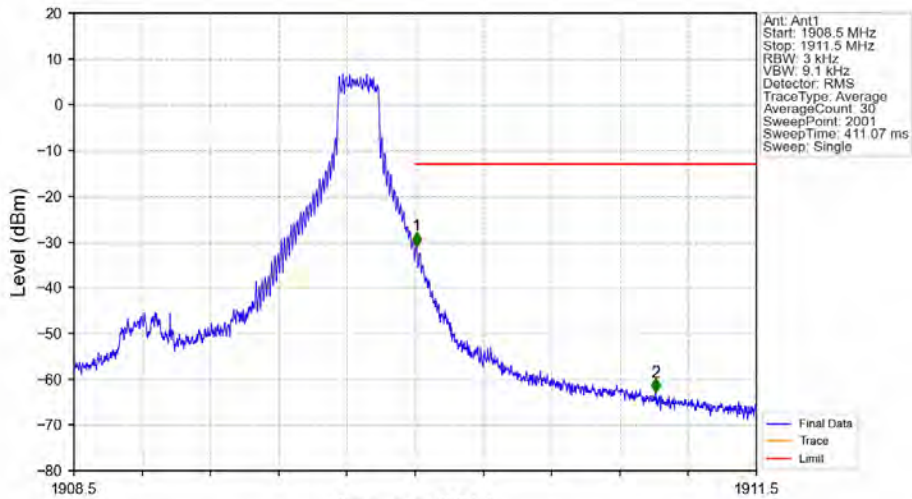
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Band2\_1.4MHz\_QPSK\_HCH\_1909.3MHz\_RB\_1\_5\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1908.5	1910	0.003	/	/	/	/	/	/
1910	1911	0.003	/	1	1910.006	-30.89	-13	Pass
1911	1911.5	1	/	2	1911.057	-62.92	-13	Pass



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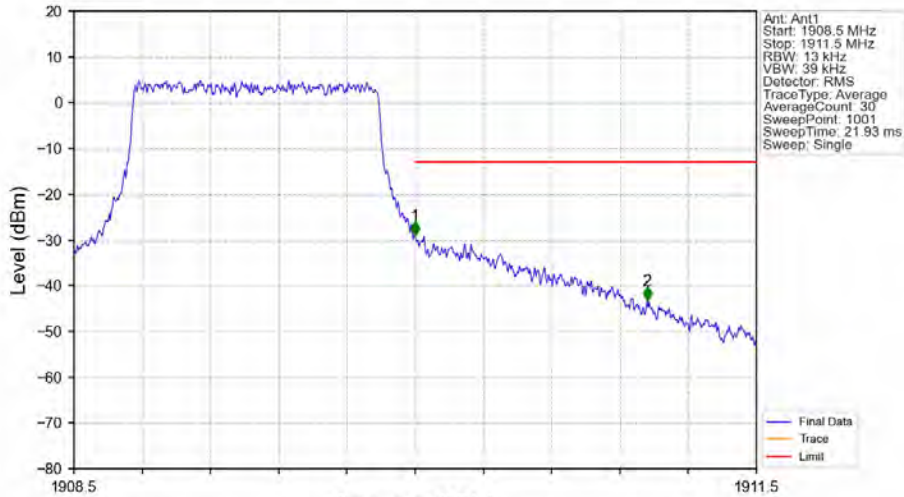
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Band2\_1.4MHz\_QPSK\_HCH\_1909.3MHz\_RB\_6\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1908.5	1910	0.013	/	/	/	/	/	/
1910	1911	0.013	/	1	1910.000	-29.03	-13	Pass
1911	1911.5	1	/	2	1911.020	-43.30	-13	Pass



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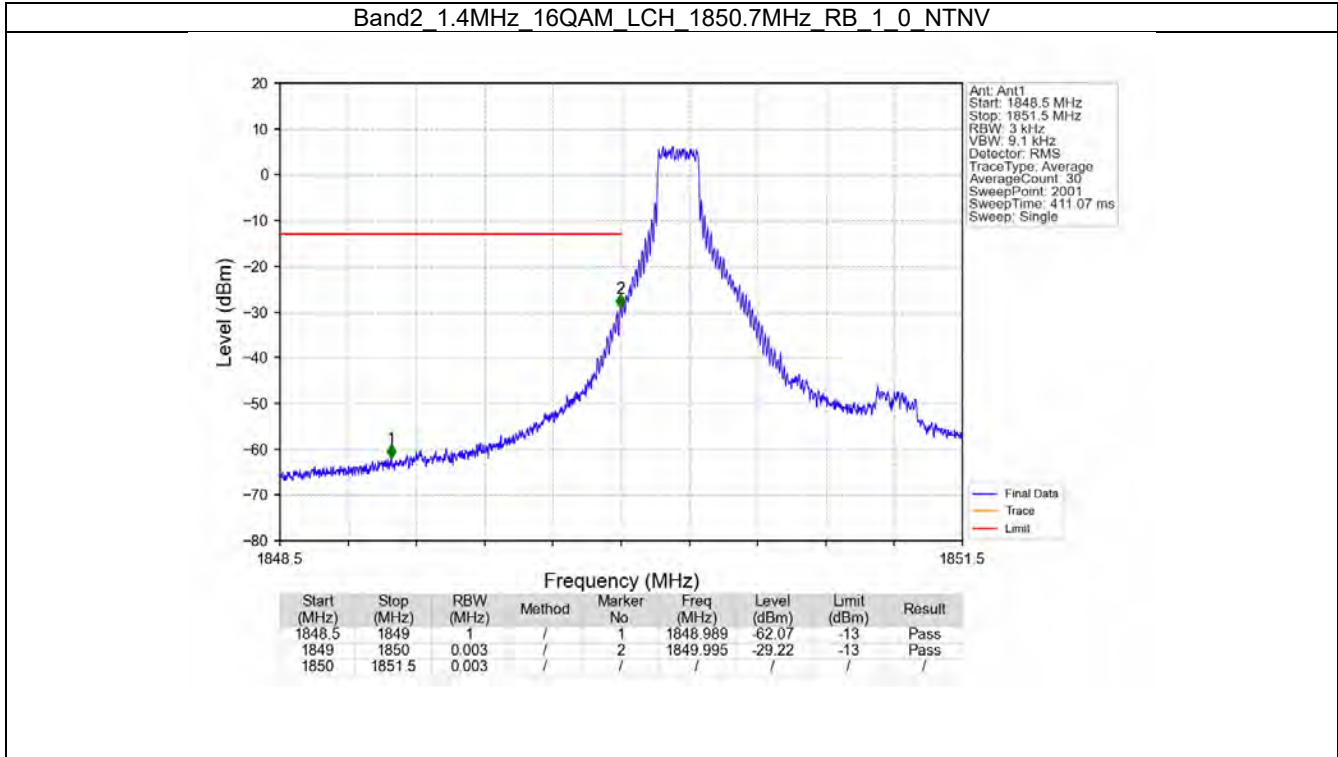
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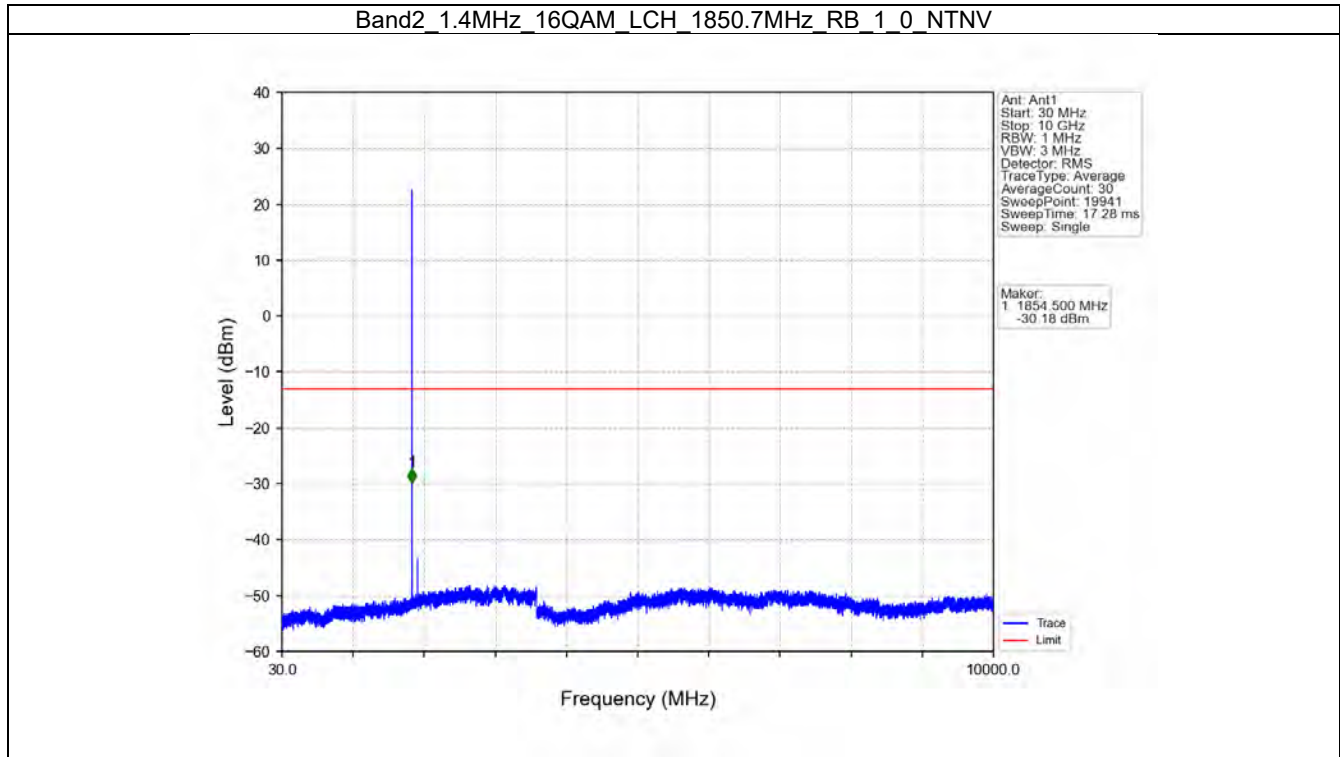


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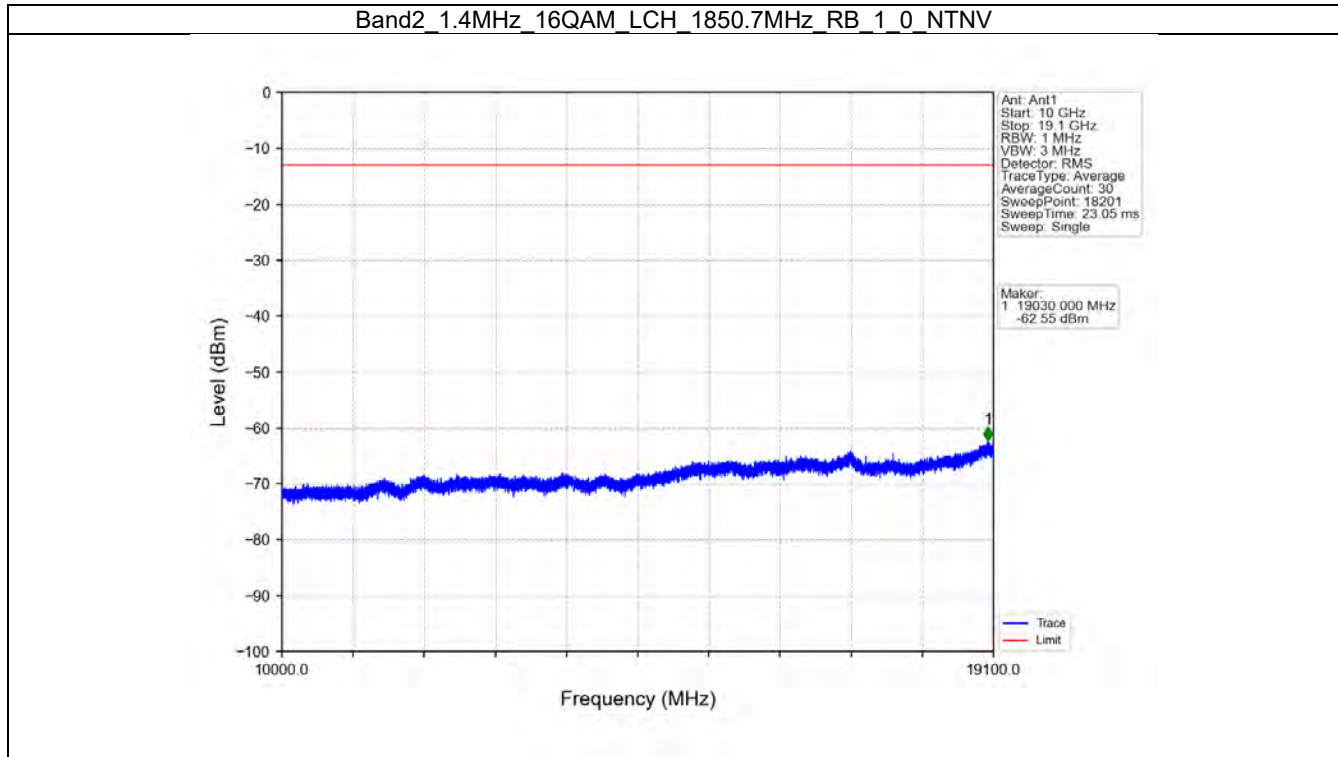


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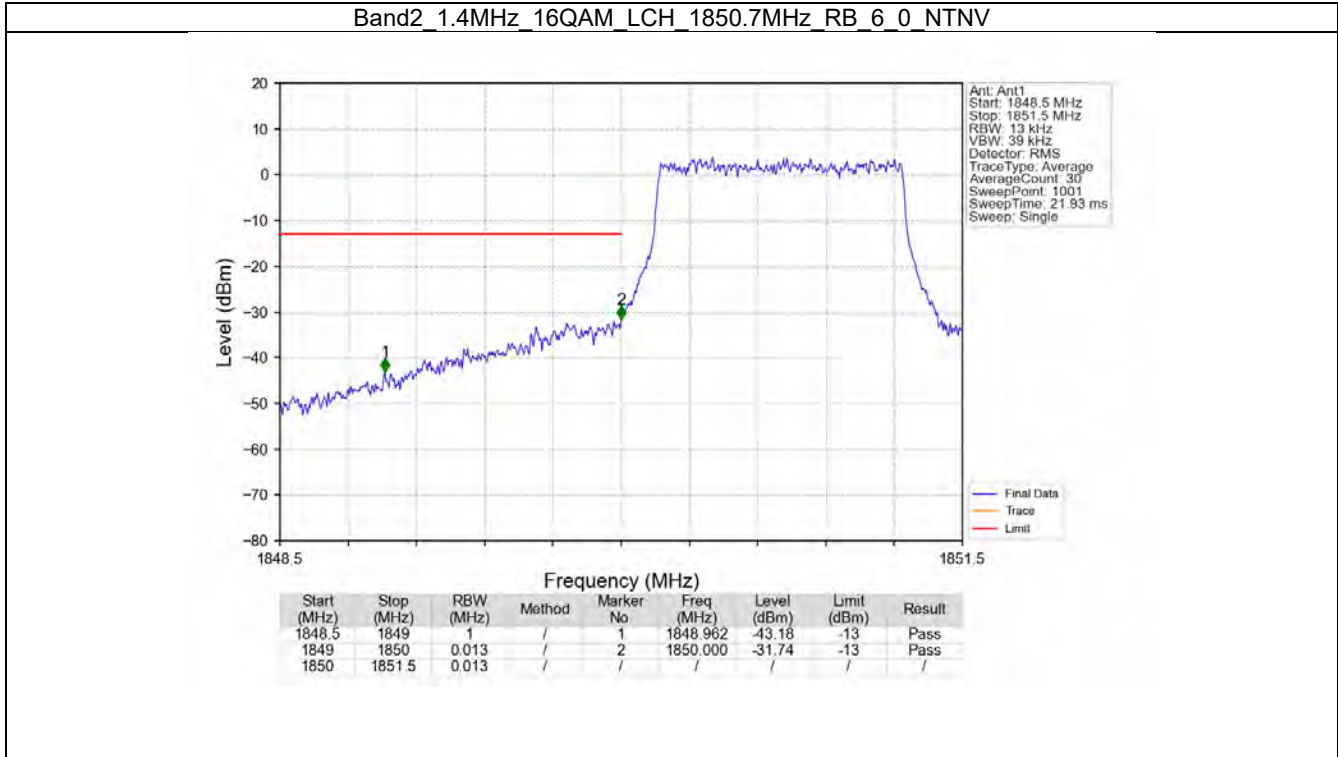
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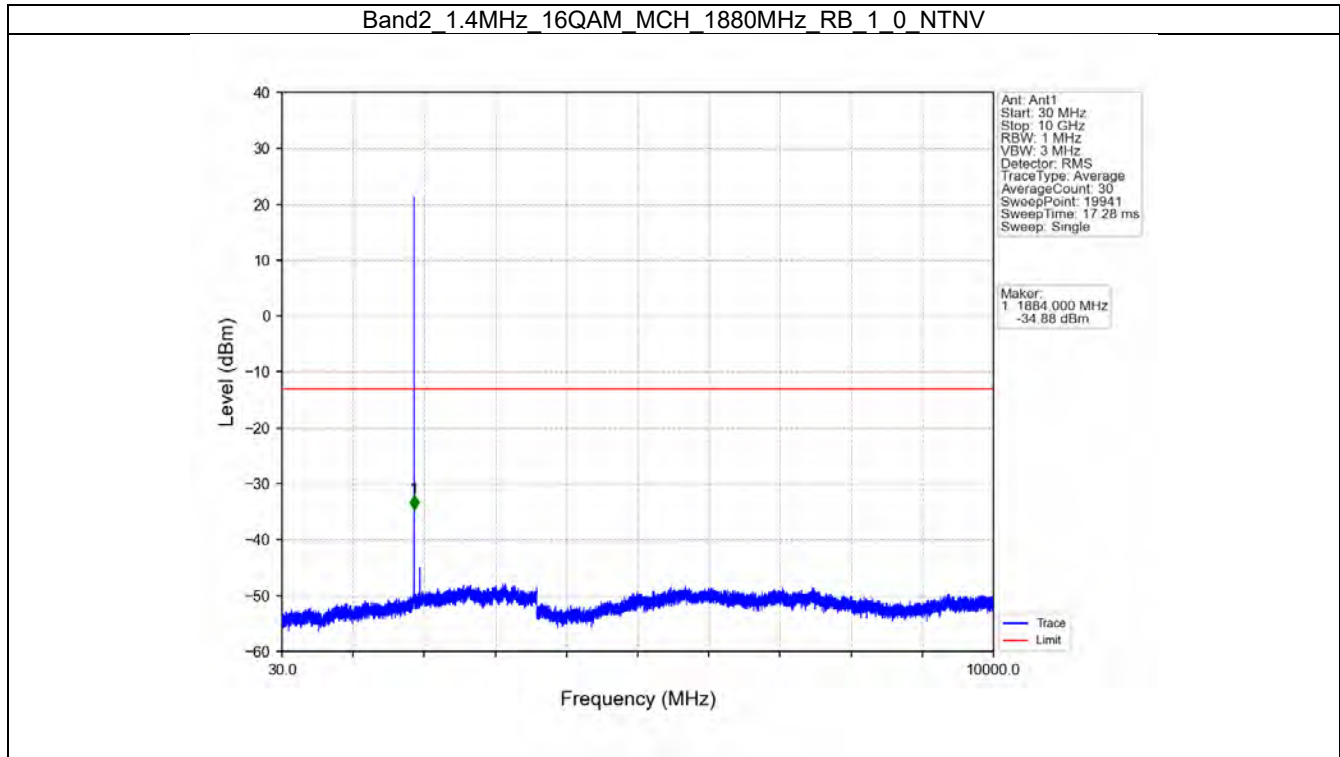


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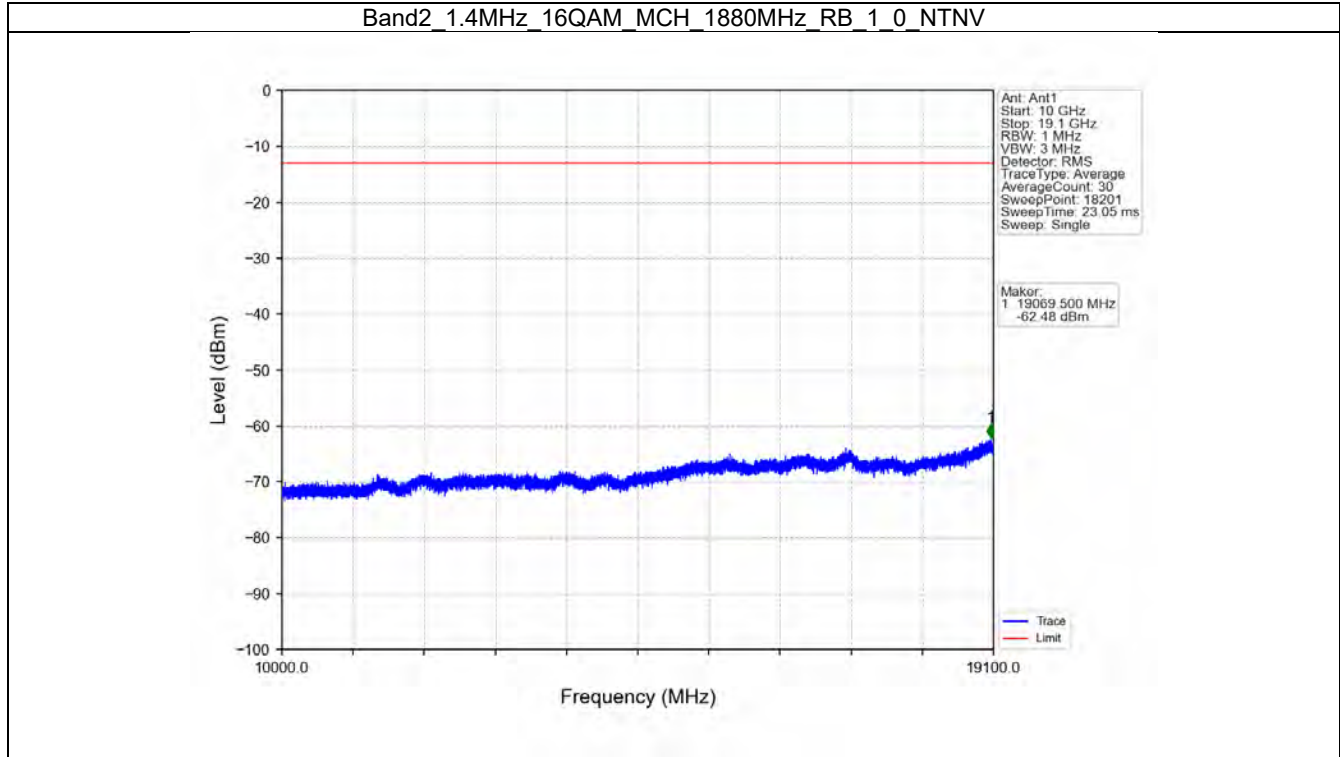
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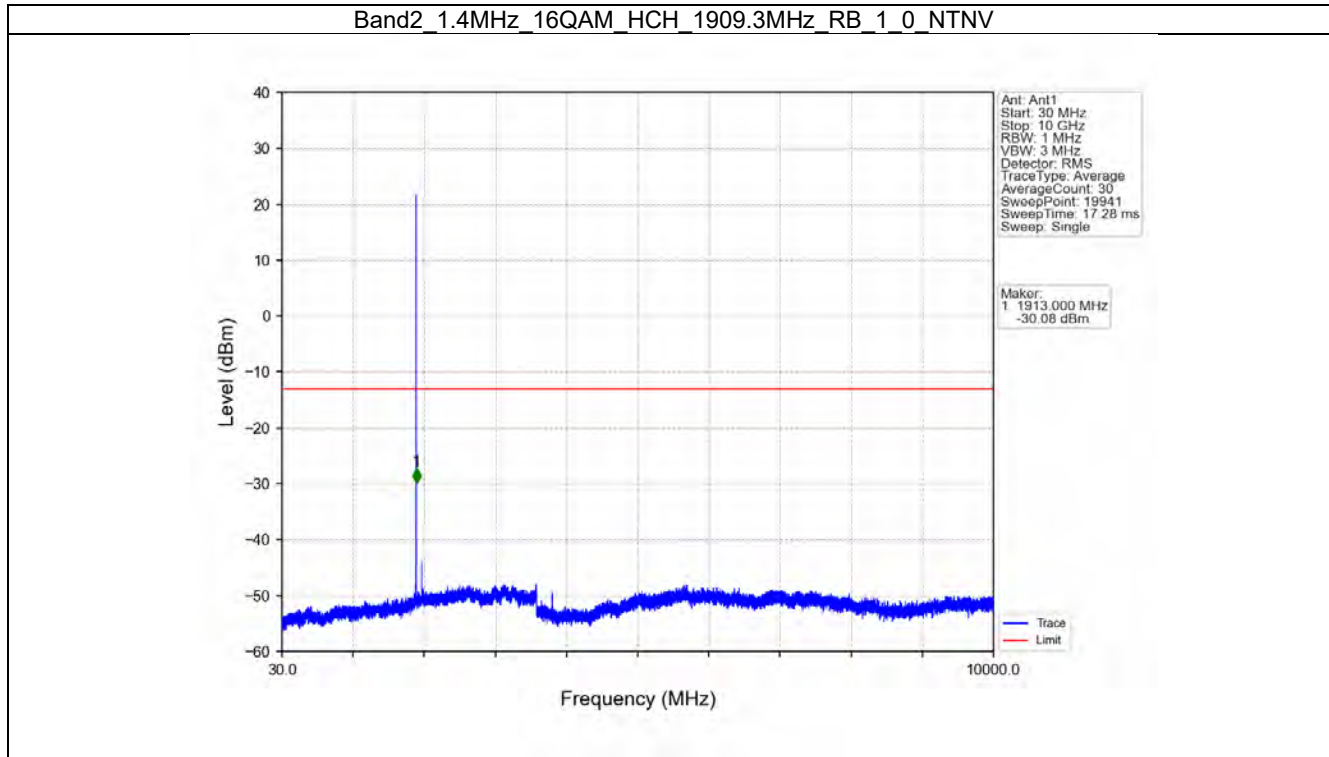


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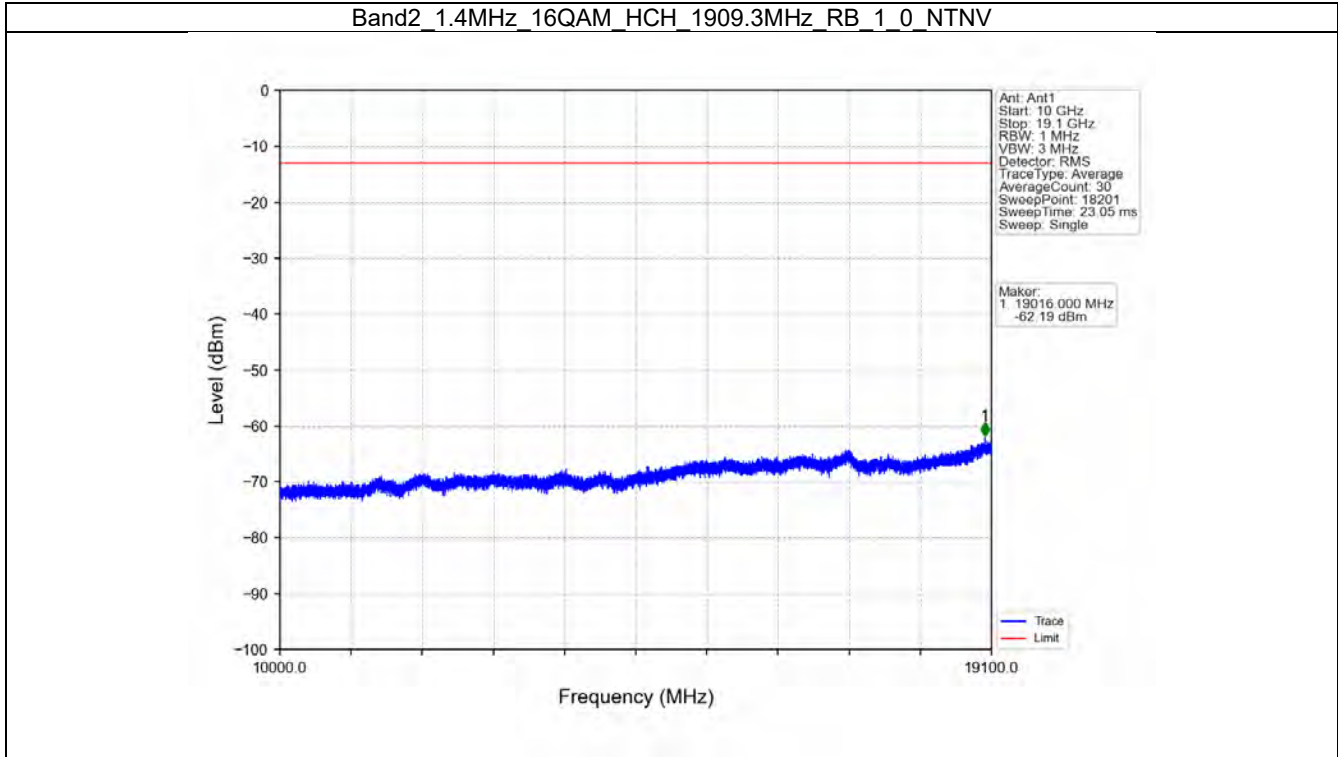
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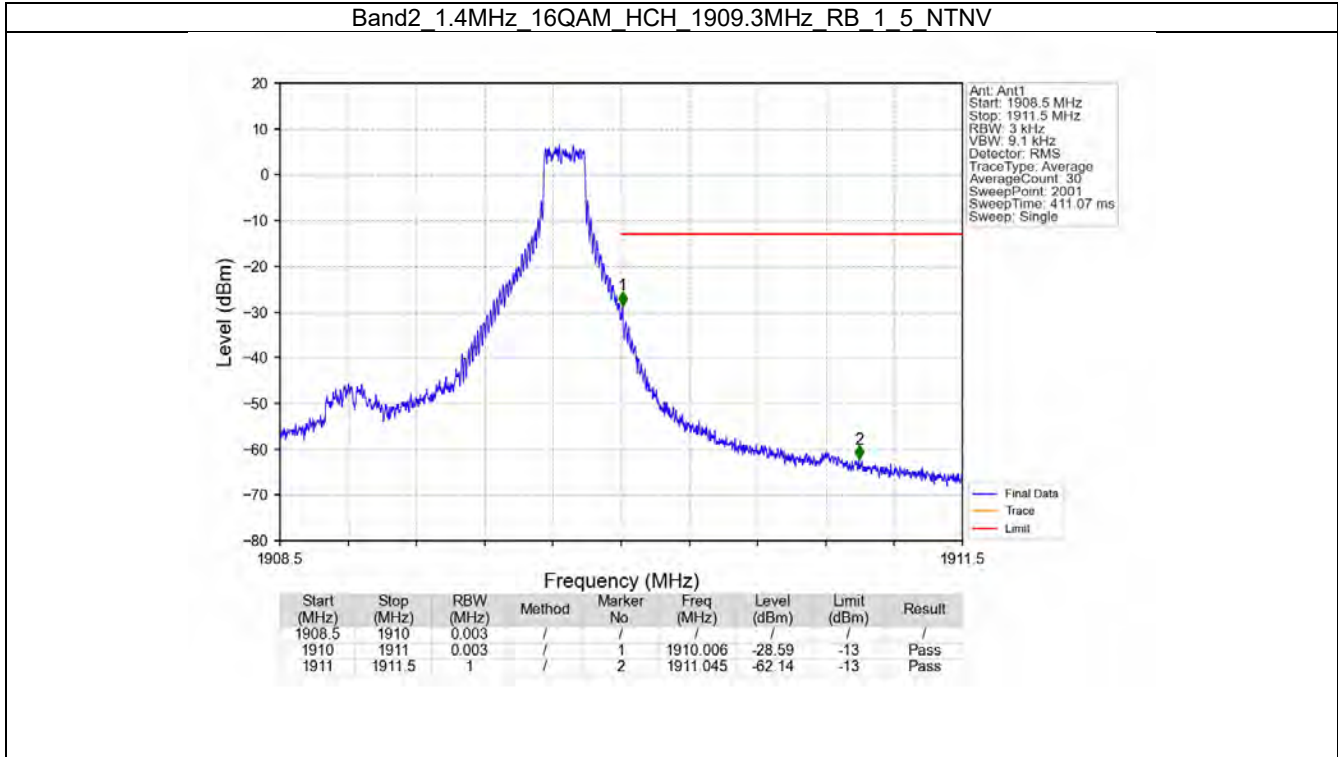
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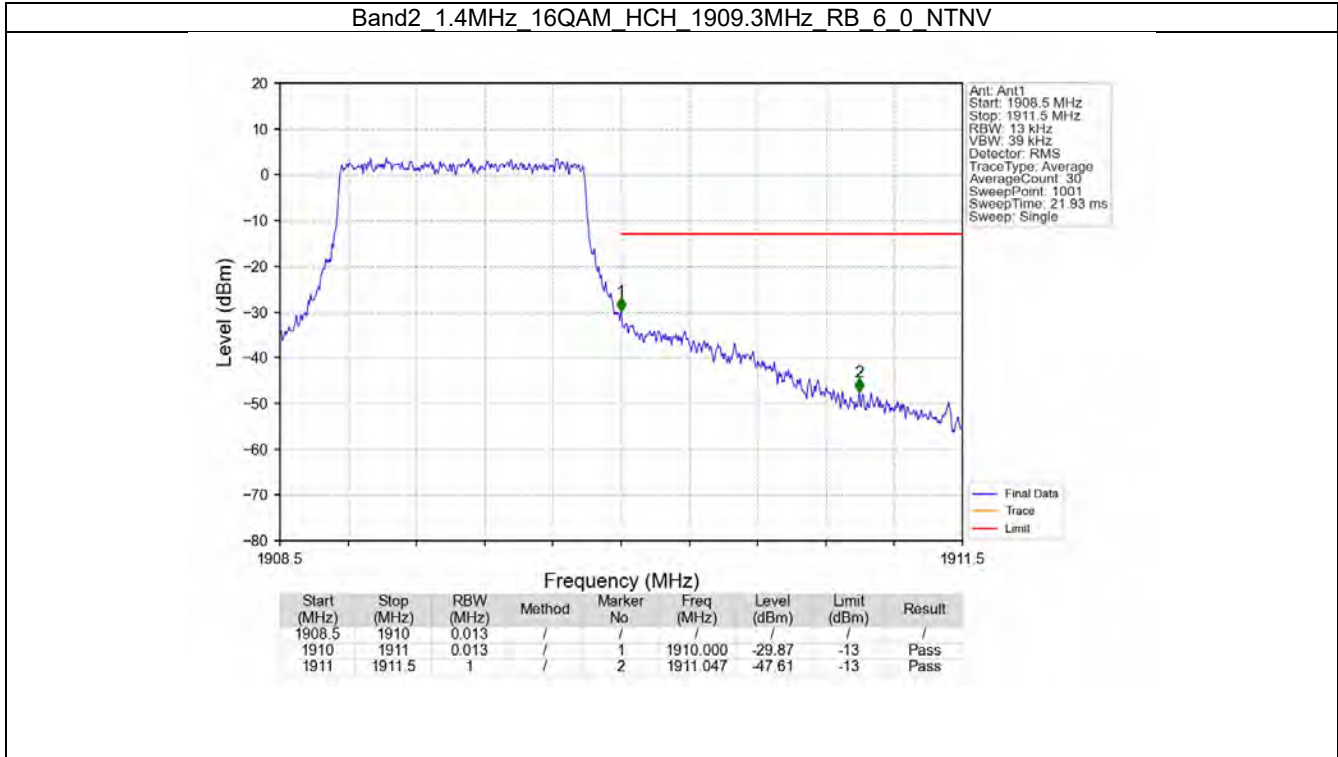
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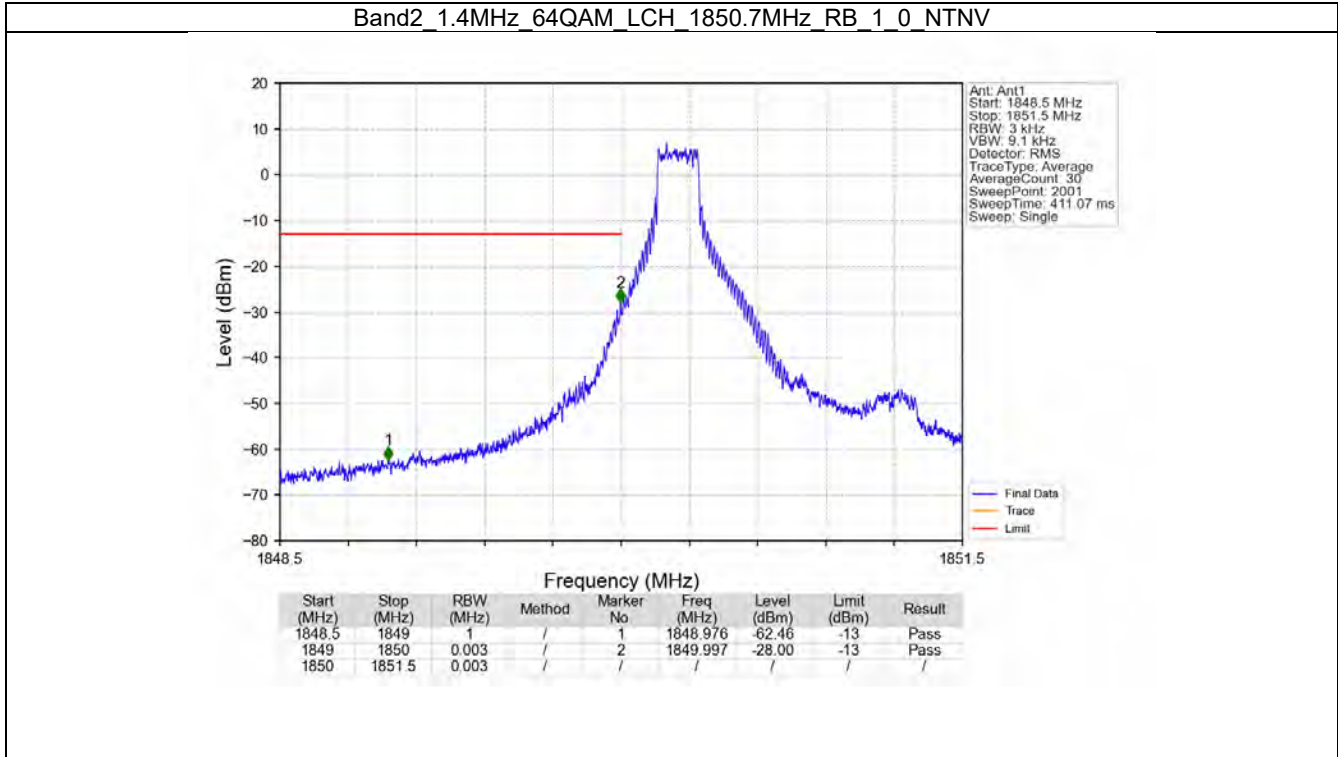
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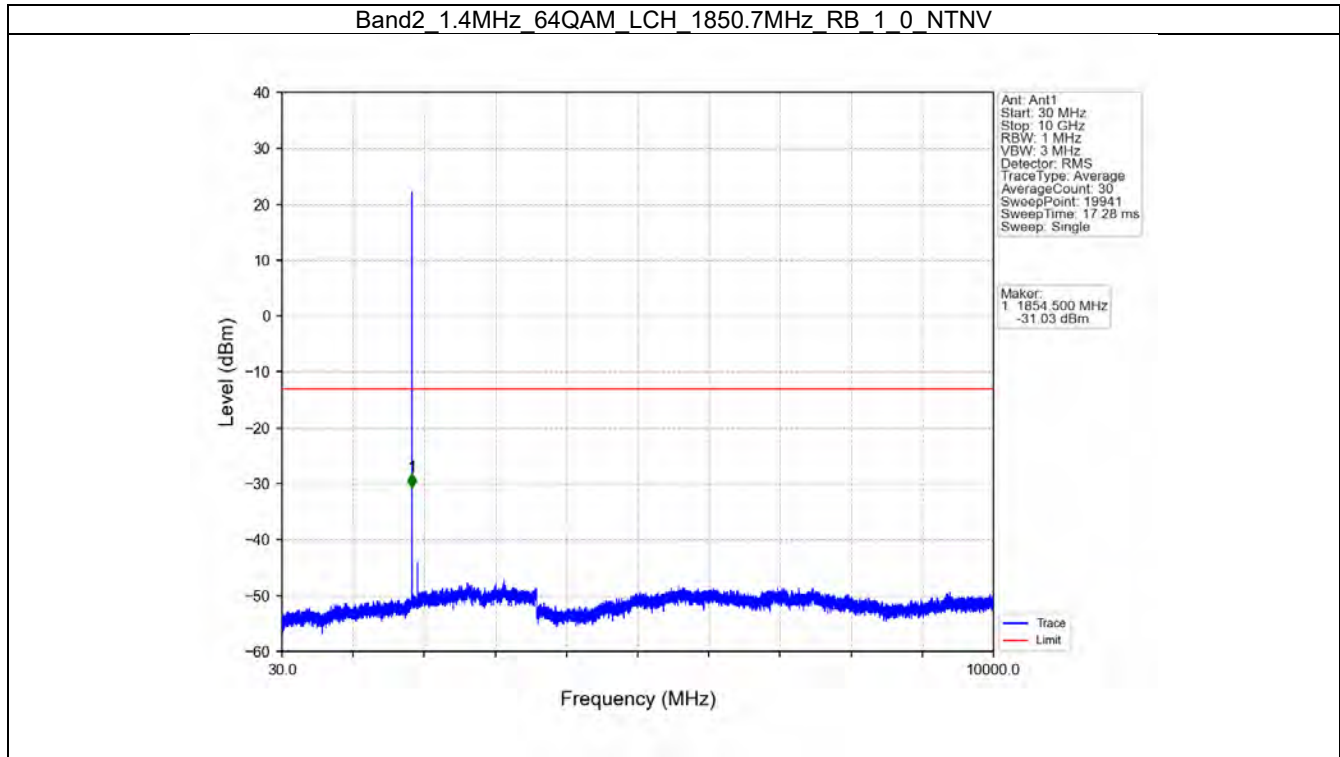


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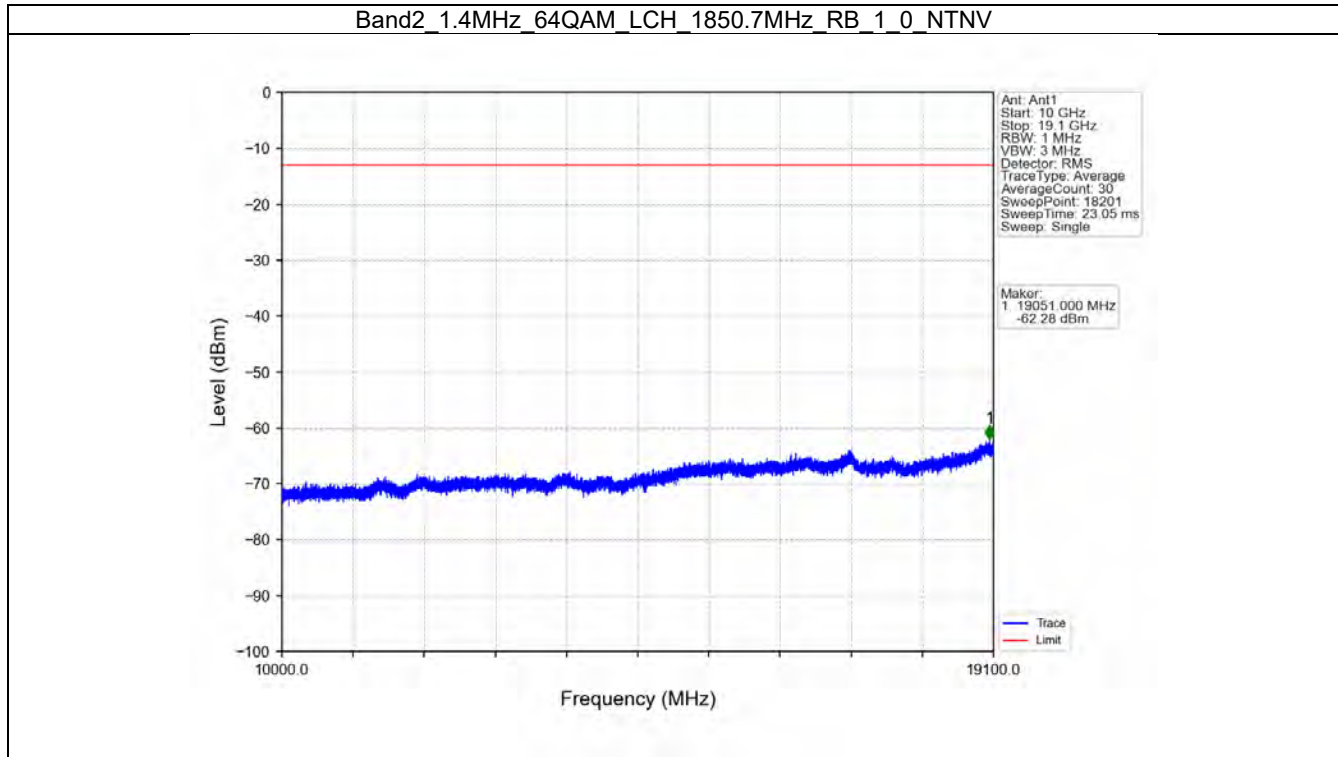


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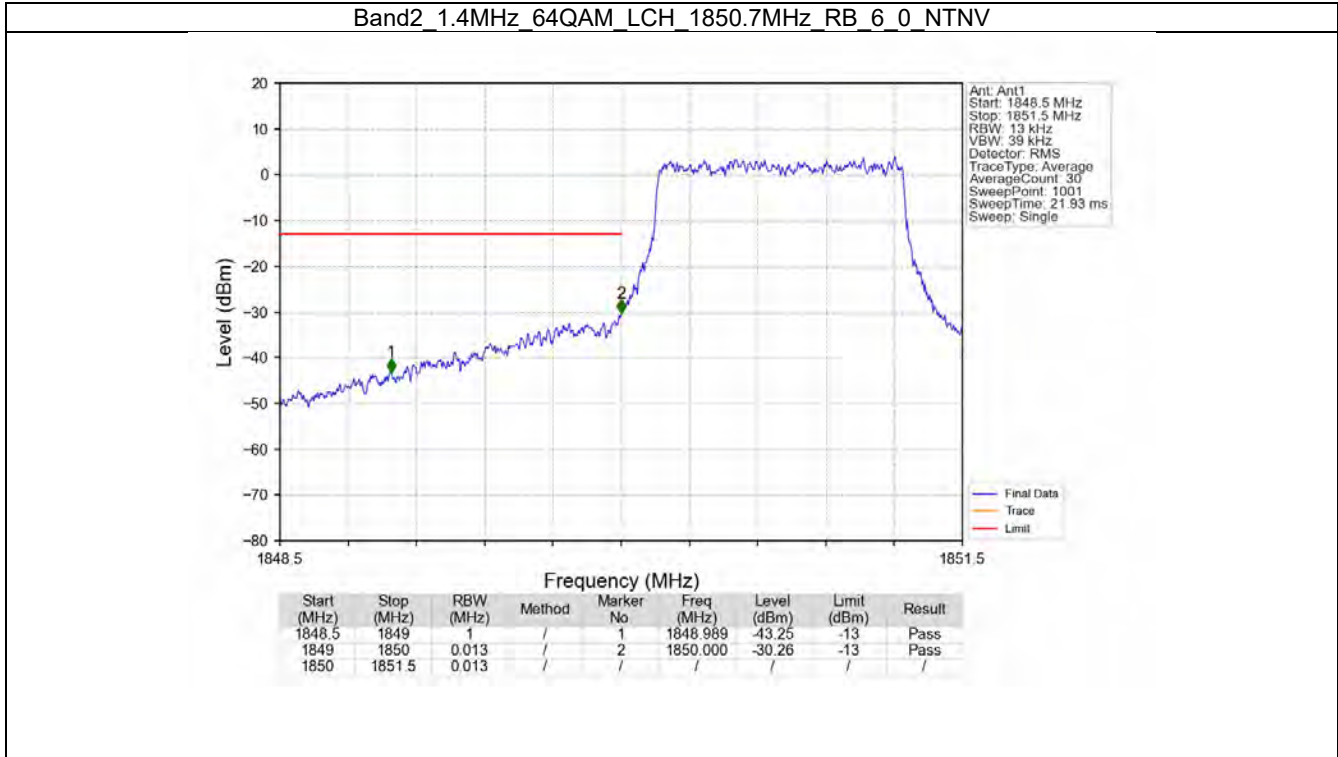
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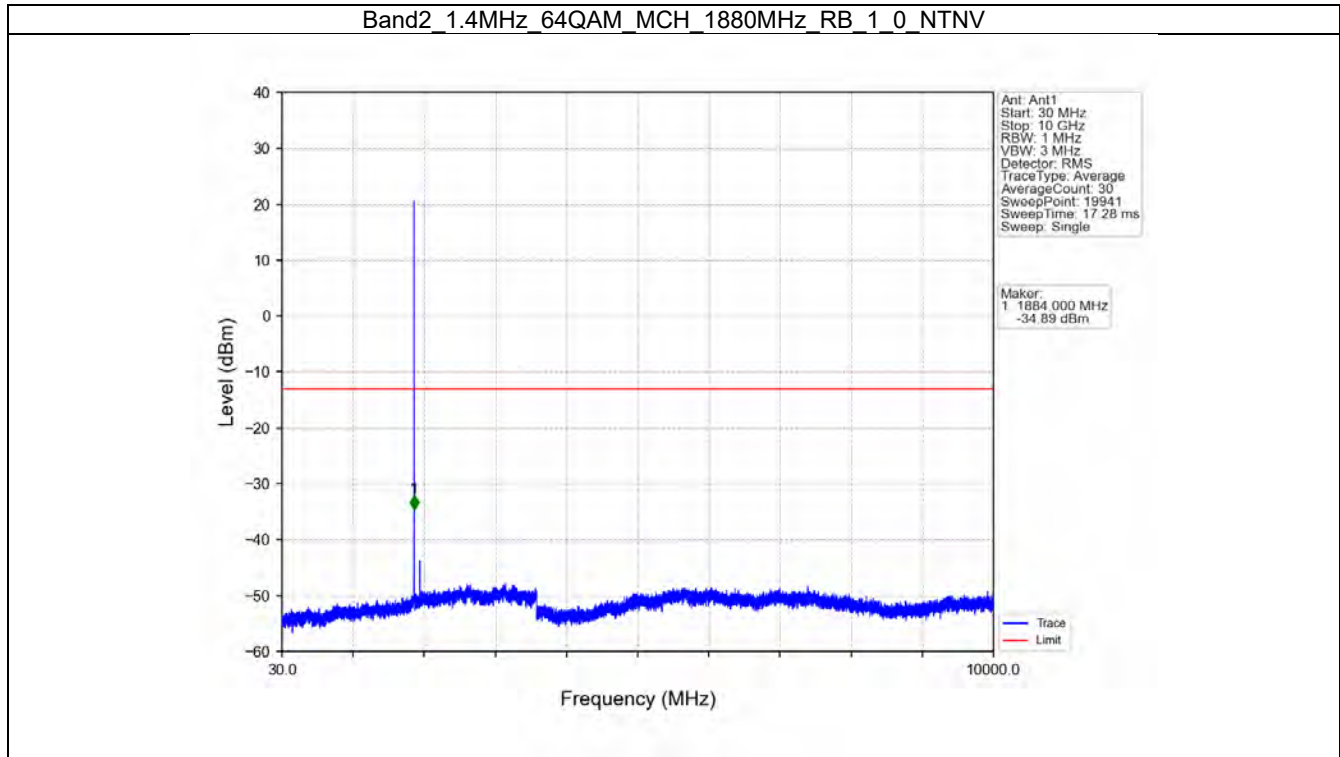


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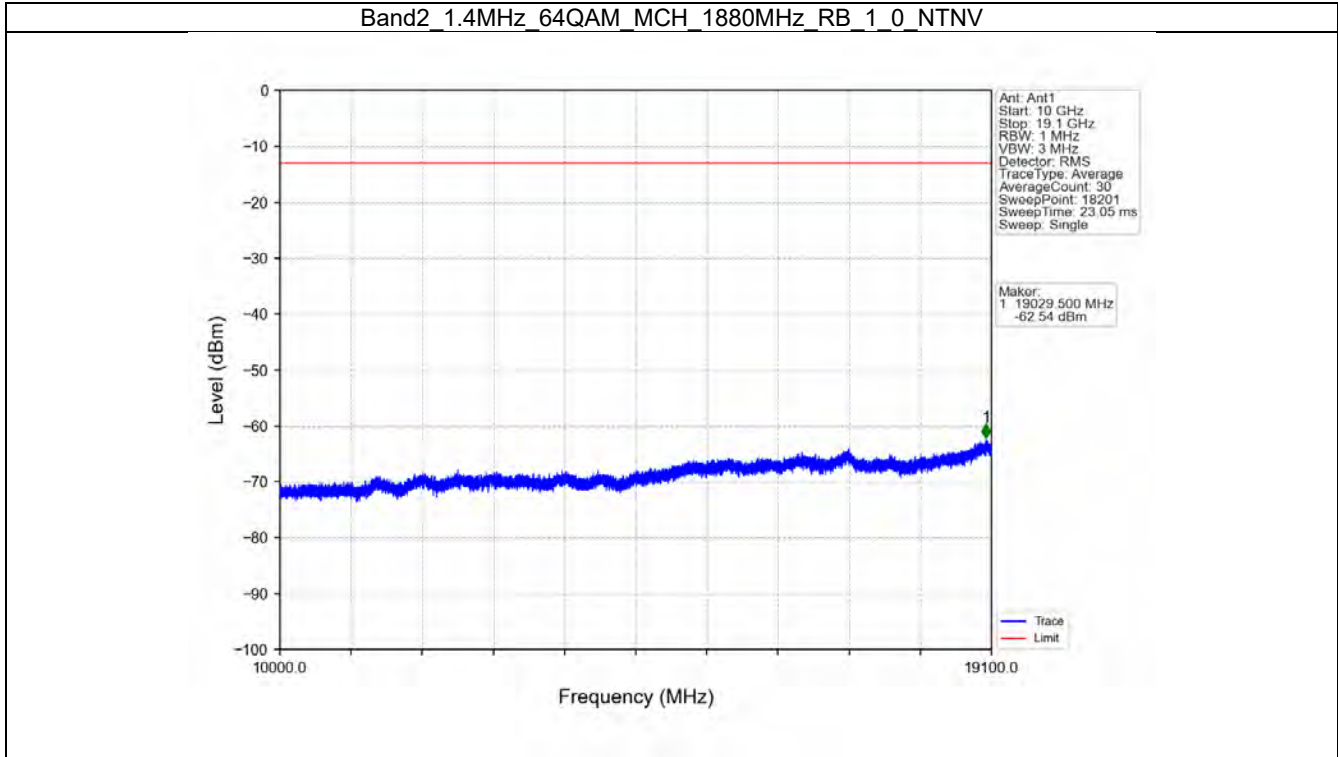
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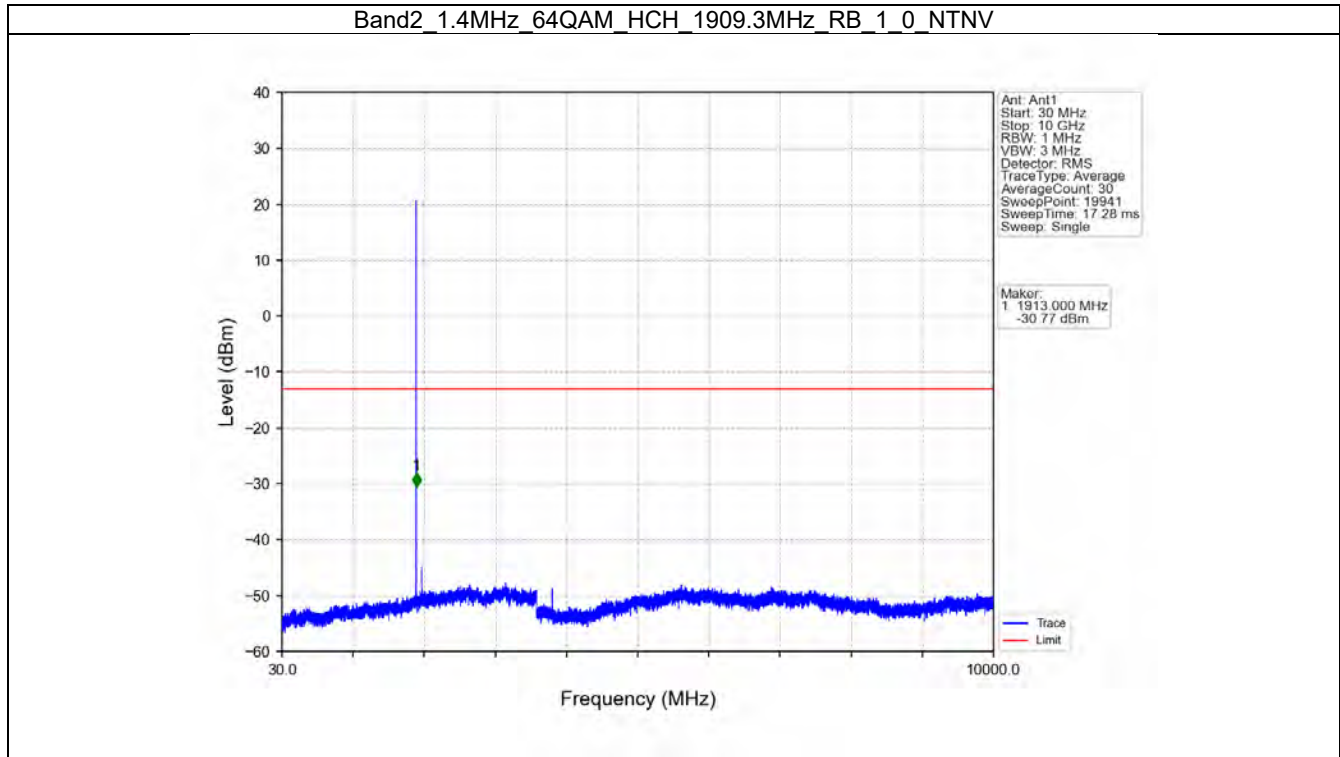


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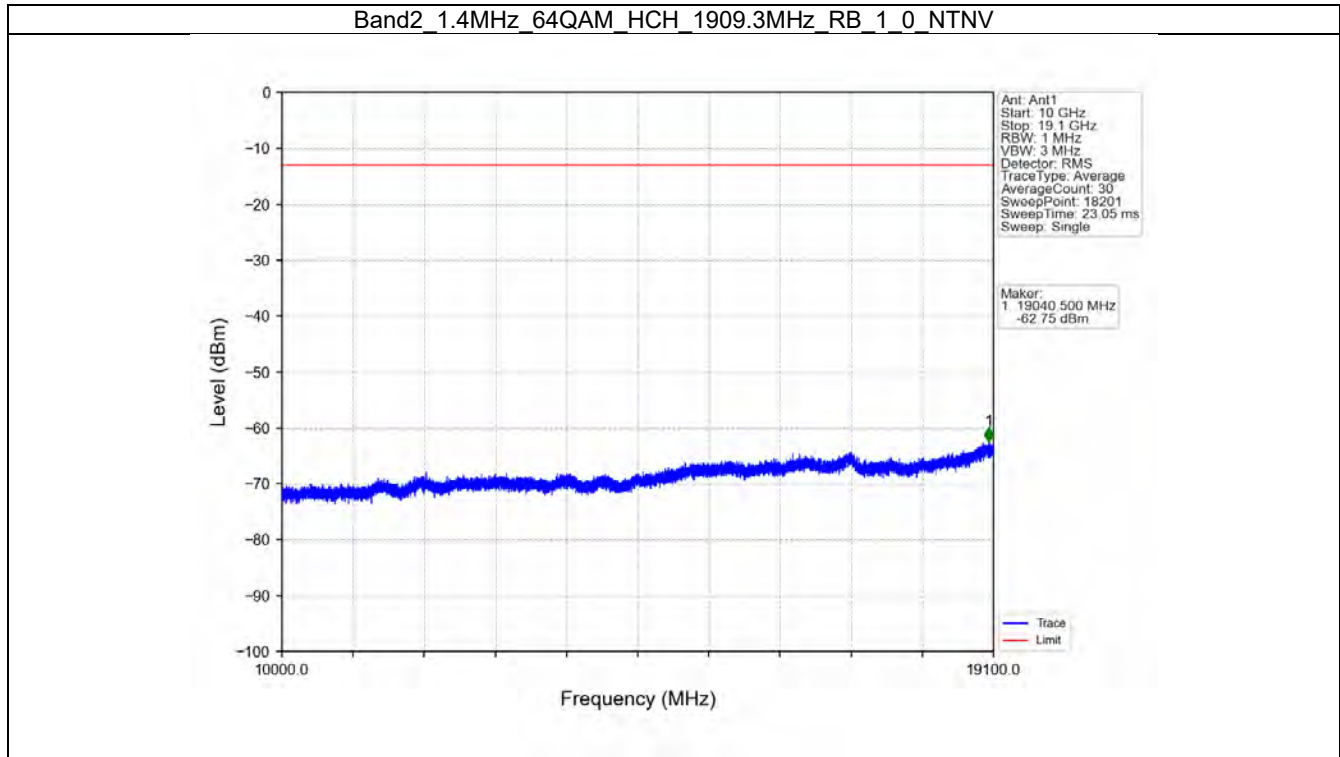
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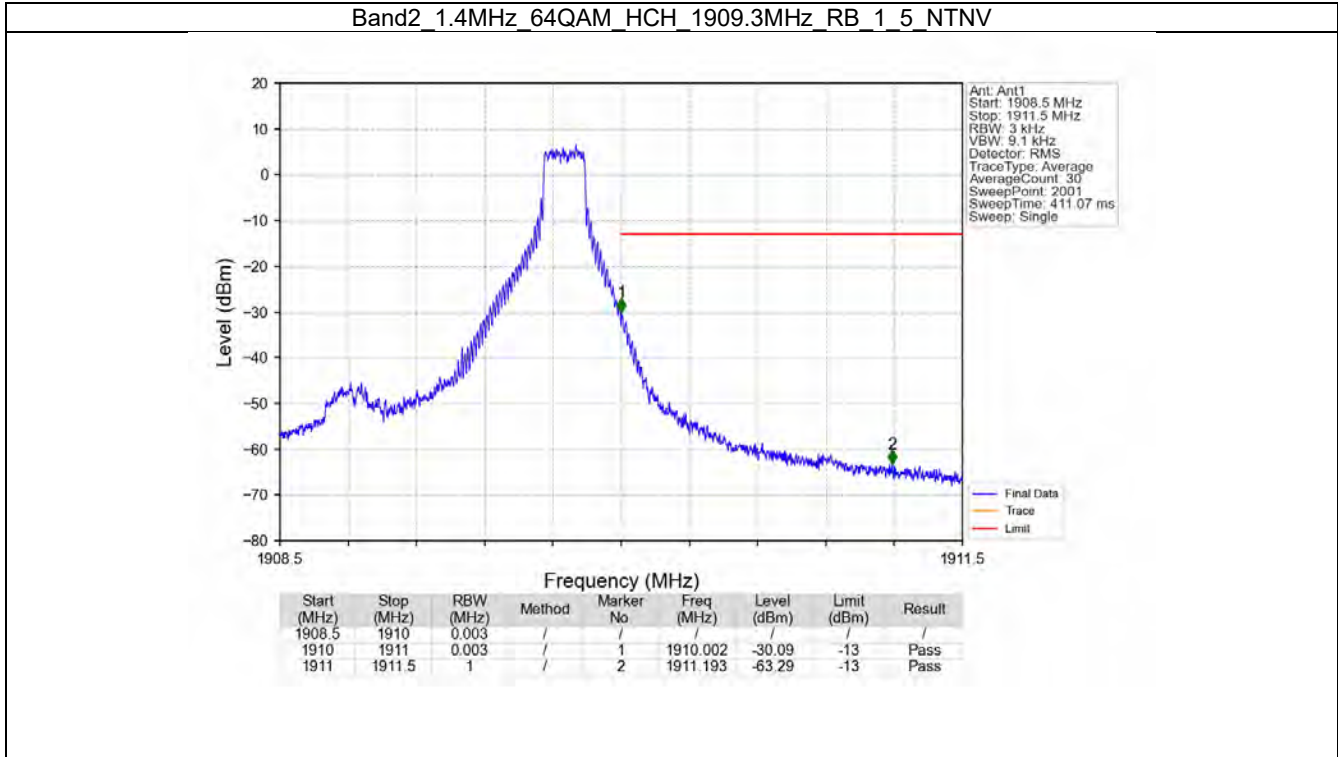
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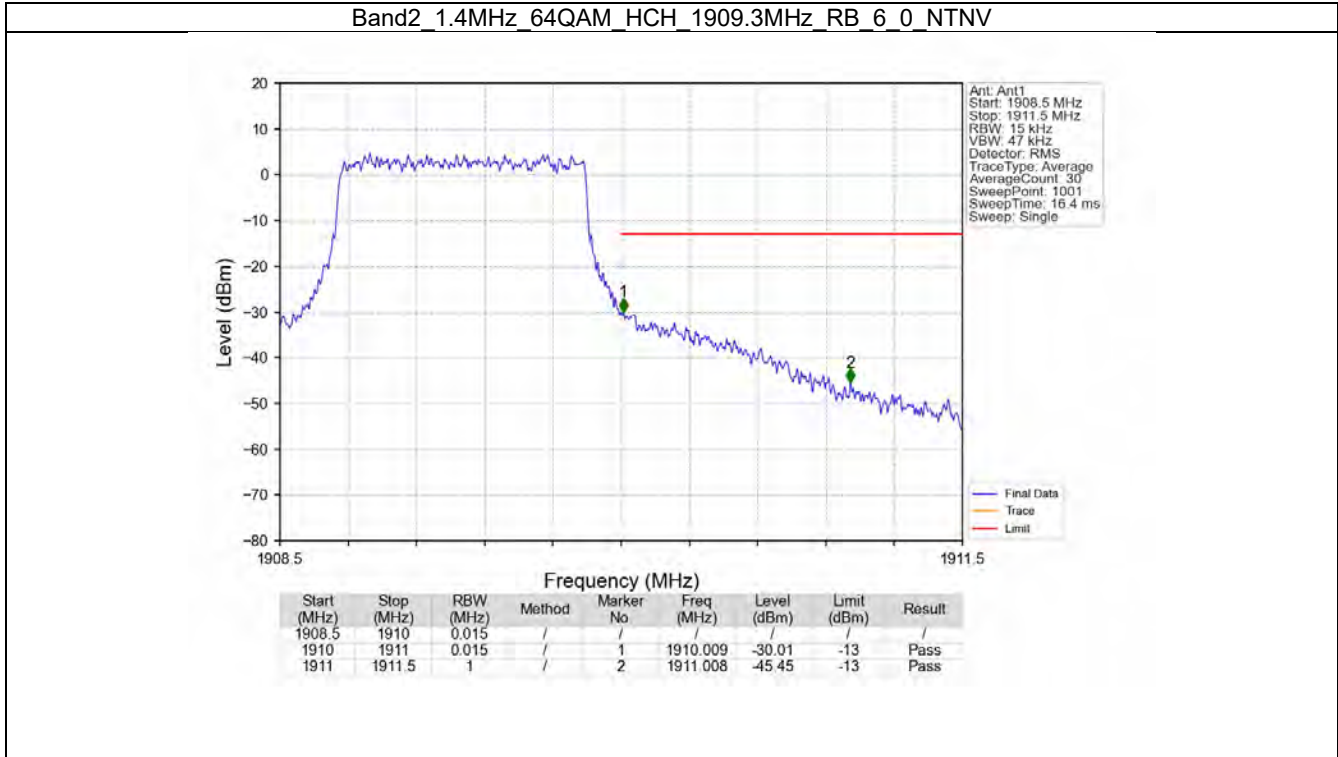
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## 5.2 B2\_3MHz

### 5.2.1 Test Result

Band: 2 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1851.5	1	0	Refer To Test Graph	Pass	
		15	0	Refer To Test Graph	Pass	
	1908.5	1880	1	0	Refer To Test Graph	Pass
			1	0	Refer To Test Graph	Pass
		1908.5	1	14	Refer To Test Graph	Pass
			15	0	Refer To Test Graph	Pass
16QAM	1851.5	1	0	Refer To Test Graph	Pass	
		15	0	Refer To Test Graph	Pass	
	1908.5	1880	1	0	Refer To Test Graph	Pass
			1	0	Refer To Test Graph	Pass
		1908.5	1	14	Refer To Test Graph	Pass
			15	0	Refer To Test Graph	Pass
64QAM	1851.5	1	0	Refer To Test Graph	Pass	
		15	0	Refer To Test Graph	Pass	
	1908.5	1880	1	0	Refer To Test Graph	Pass
			1	0	Refer To Test Graph	Pass
		1908.5	1	14	Refer To Test Graph	Pass
			15	0	Refer To Test Graph	Pass



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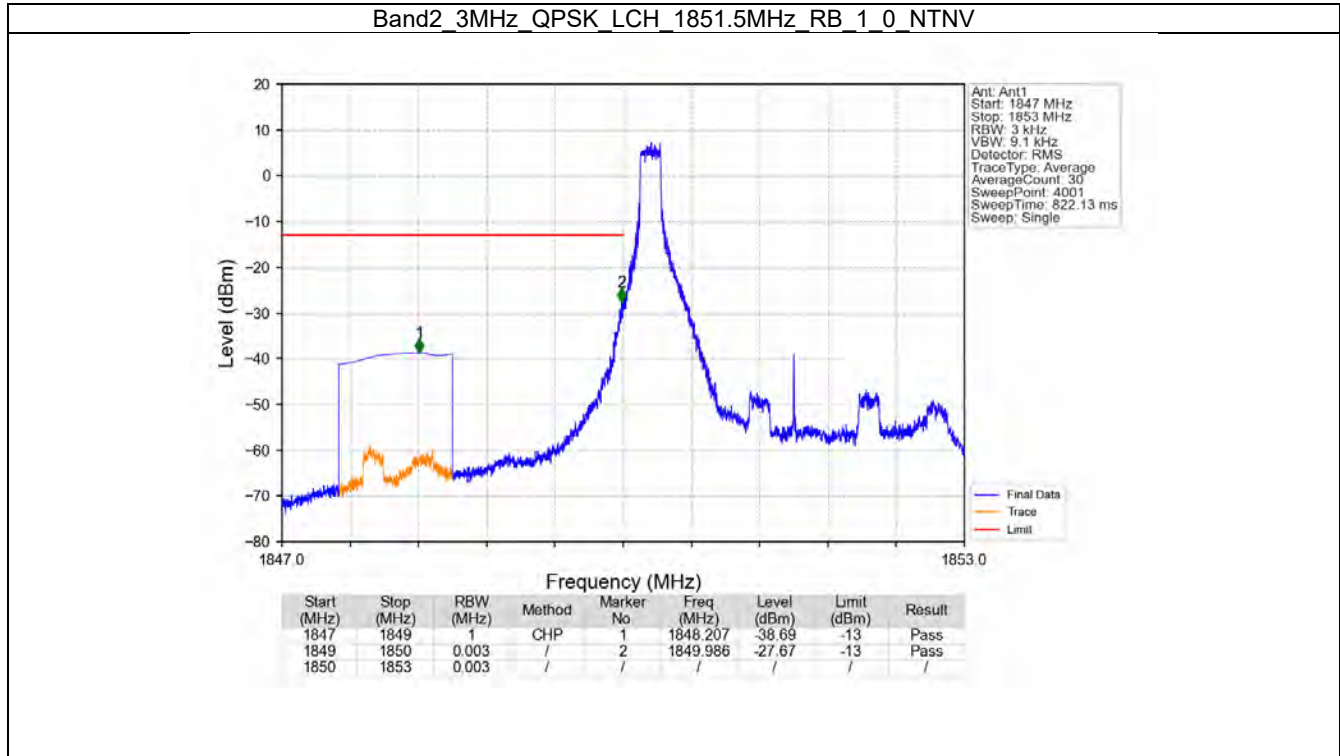




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5.2.2 Test Graph



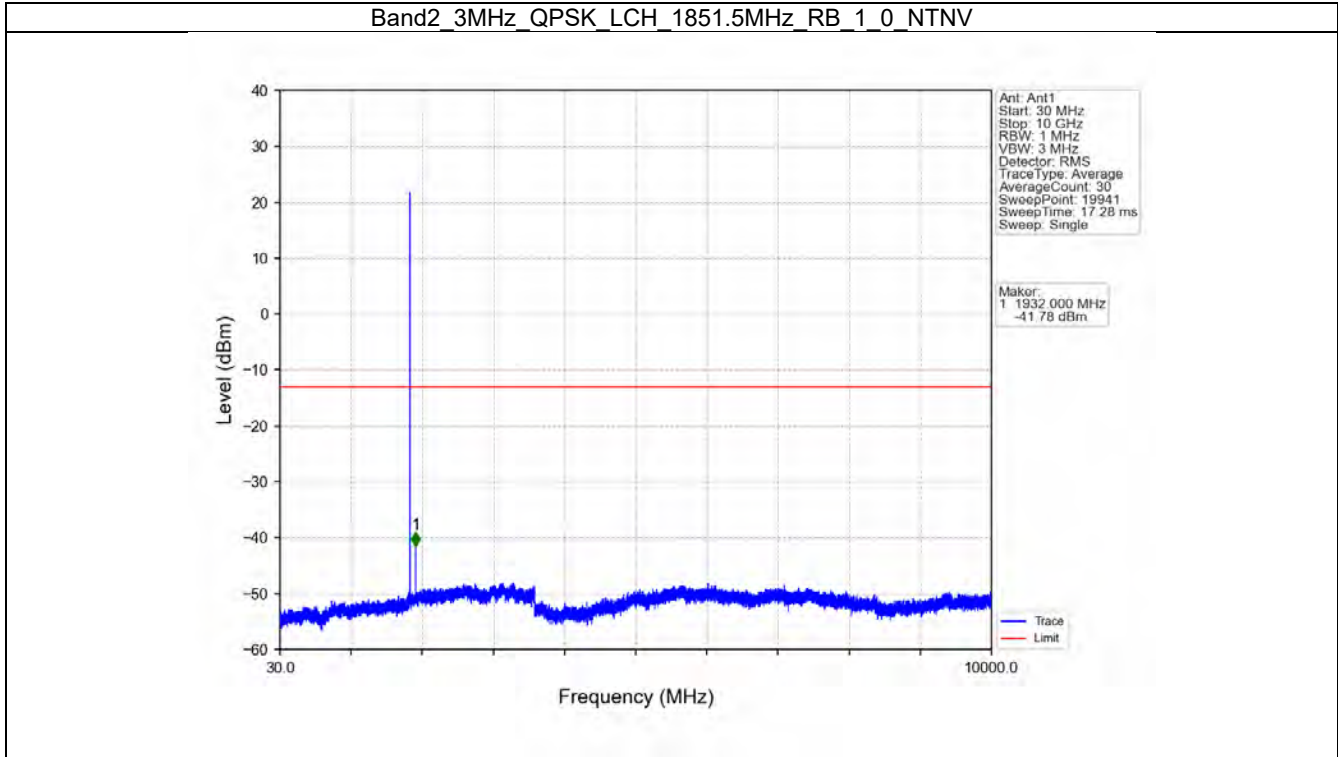
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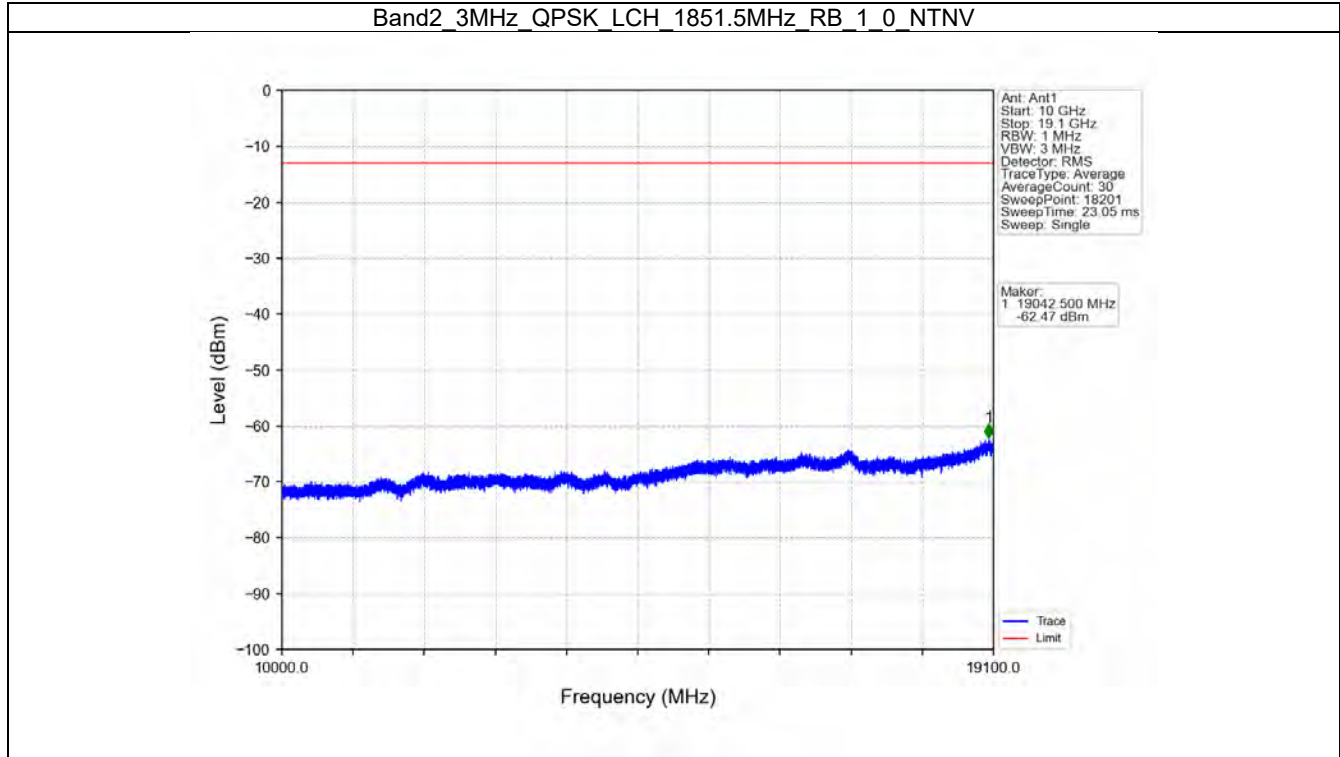
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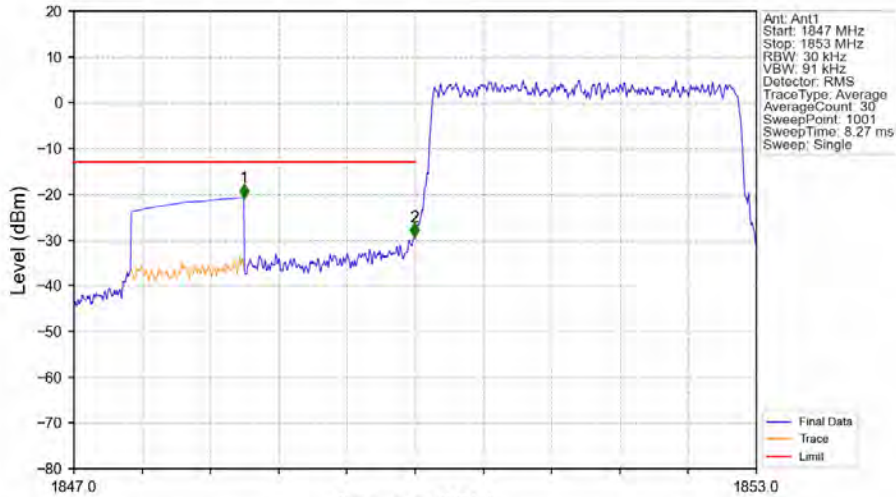
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Band2\_3MHz\_QPSK\_LCH\_1851.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1847	1849	1	CHP	1	1848.494	-20.85	-13	Pass
1849	1850	0.03	/	2	1849.994	-29.35	-13	Pass
1850	1853	0.03	/	/	/	/	/	/



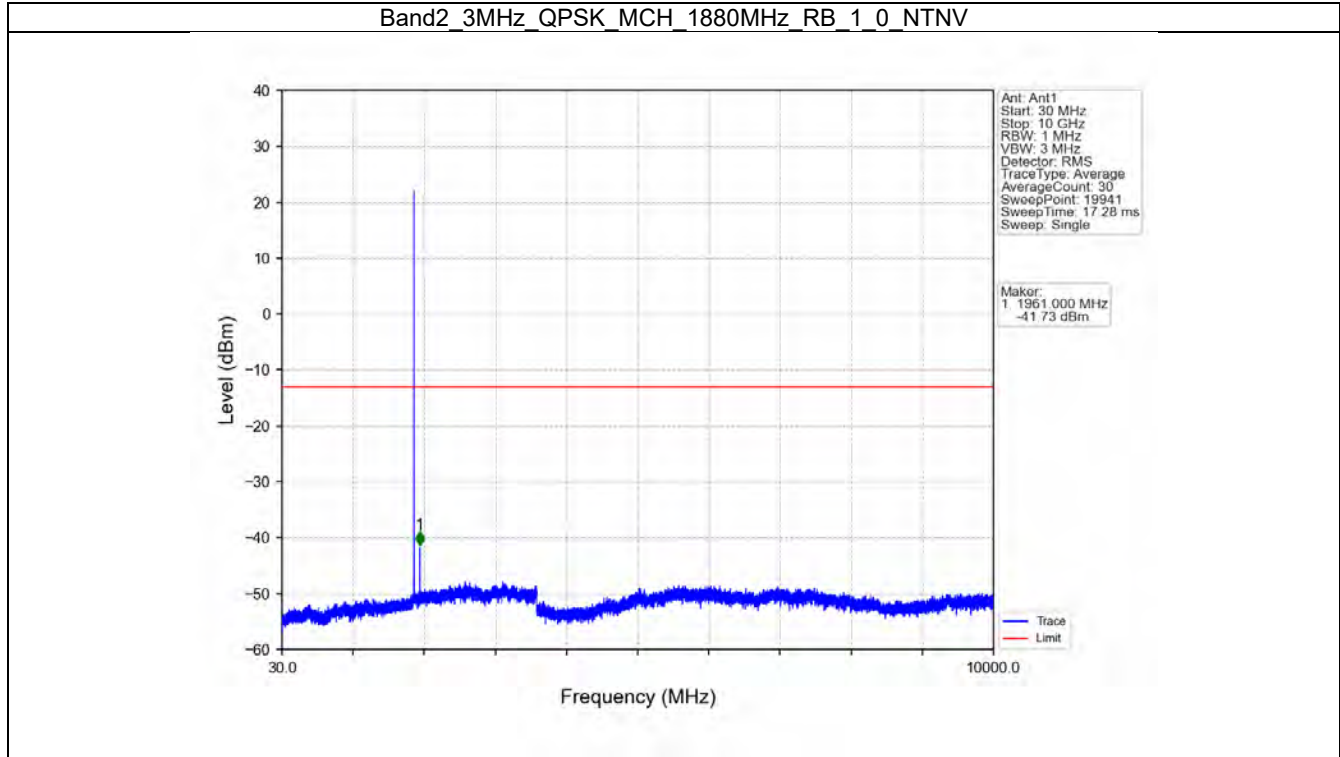
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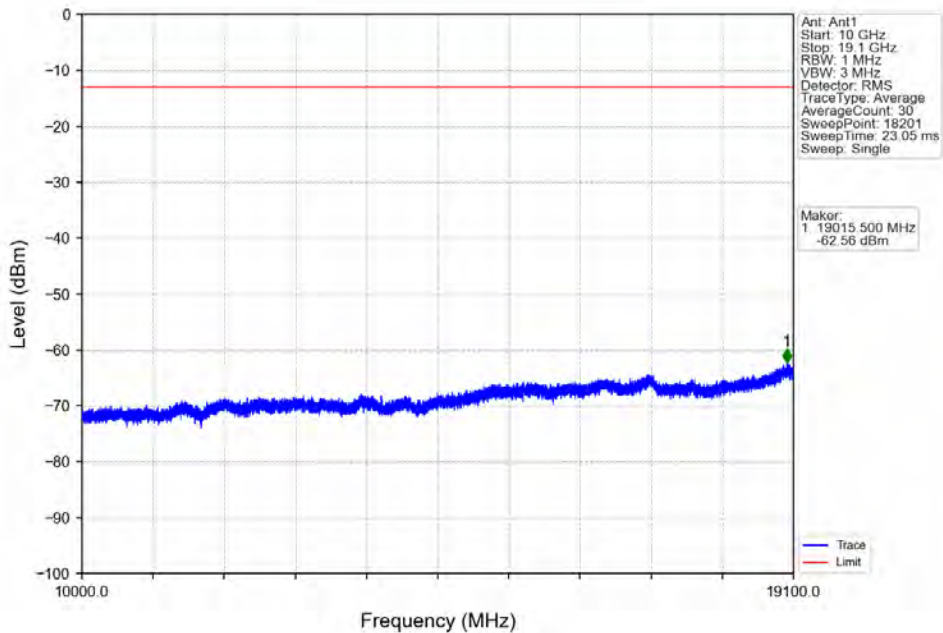
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Band2\_3MHz\_QPSK\_MCH\_1880MHz\_RB\_1\_0\_NTNV



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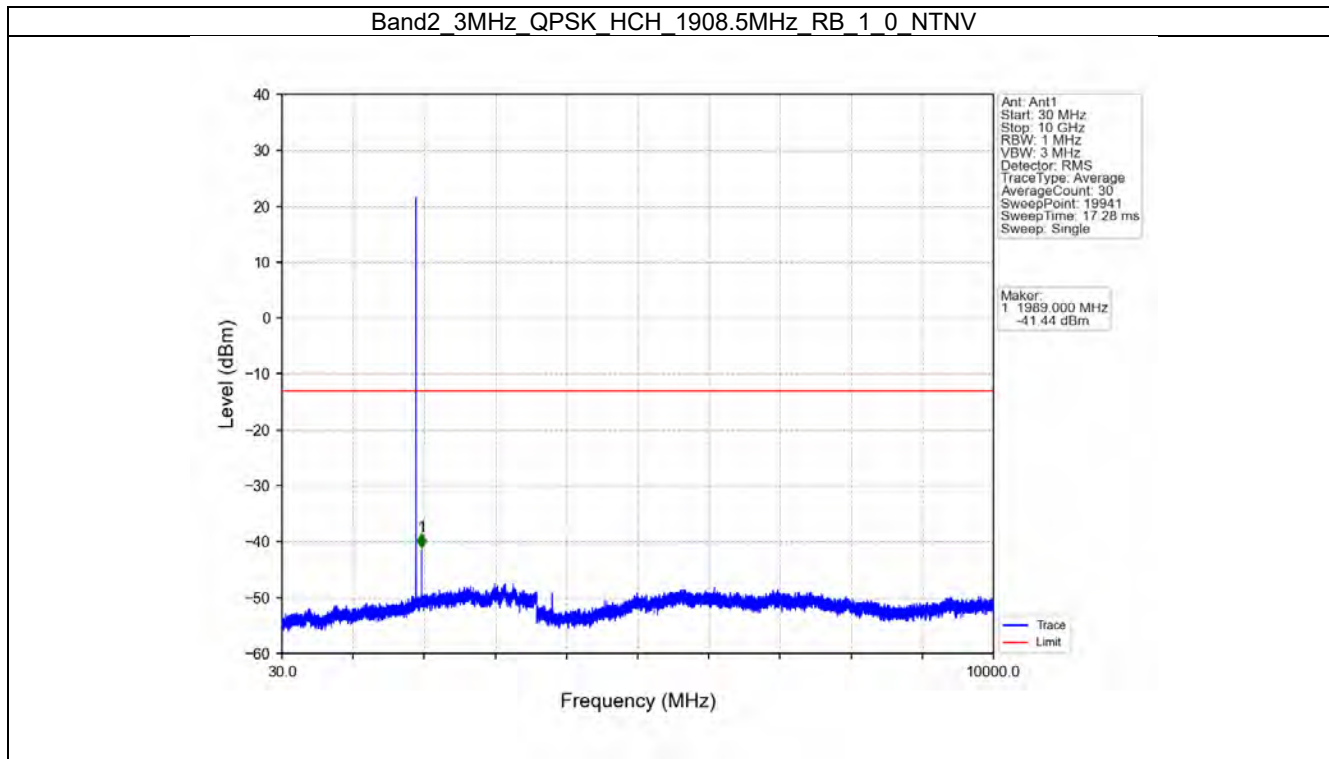


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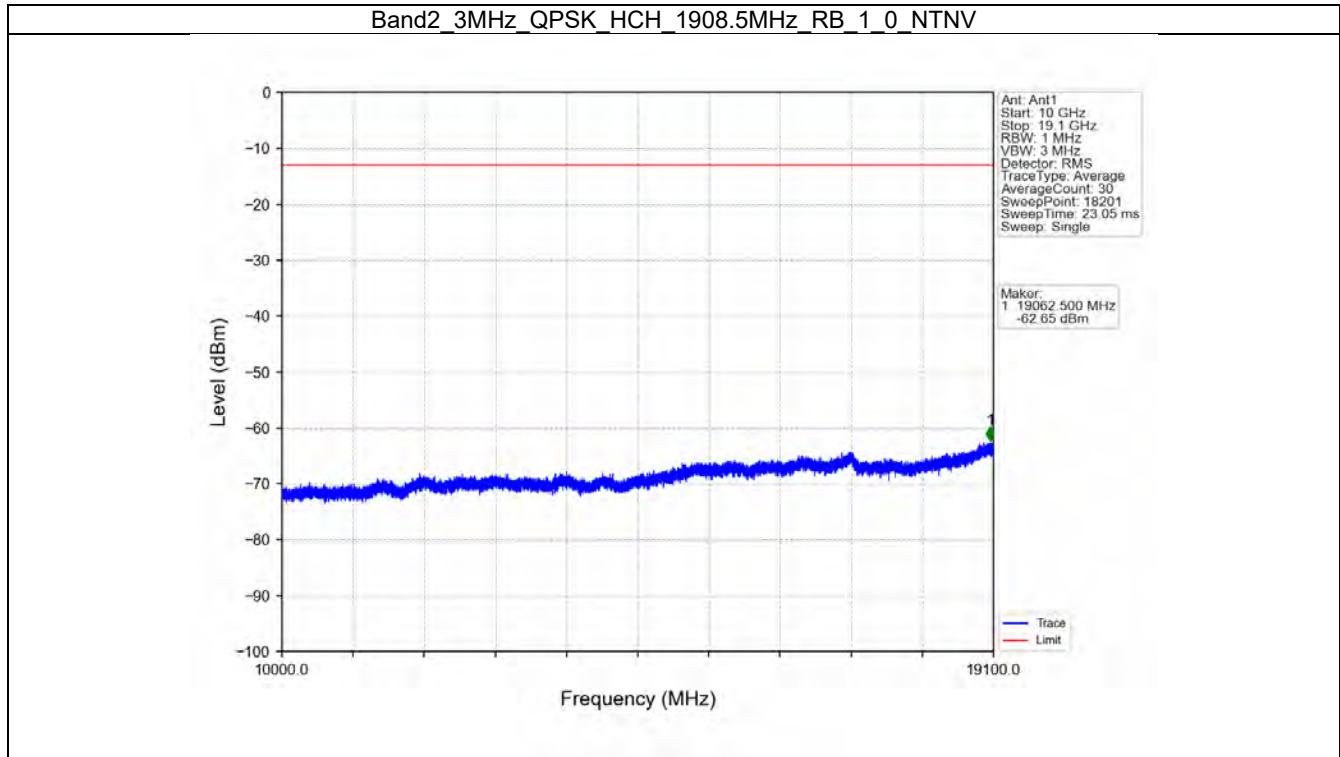


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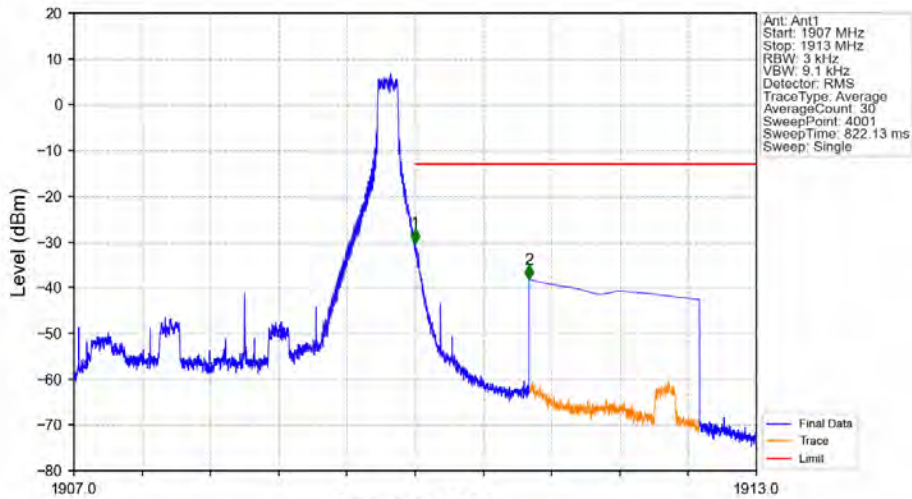




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Band2\_3MHz\_QPSK\_HCH\_1908.5MHz\_RB\_1\_14\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1907	1910	0.003	/	1	1910.000	-30.22	-13	Pass
1910	1911	0.003	CHP	2	1911.001	-38.19	-13	Pass



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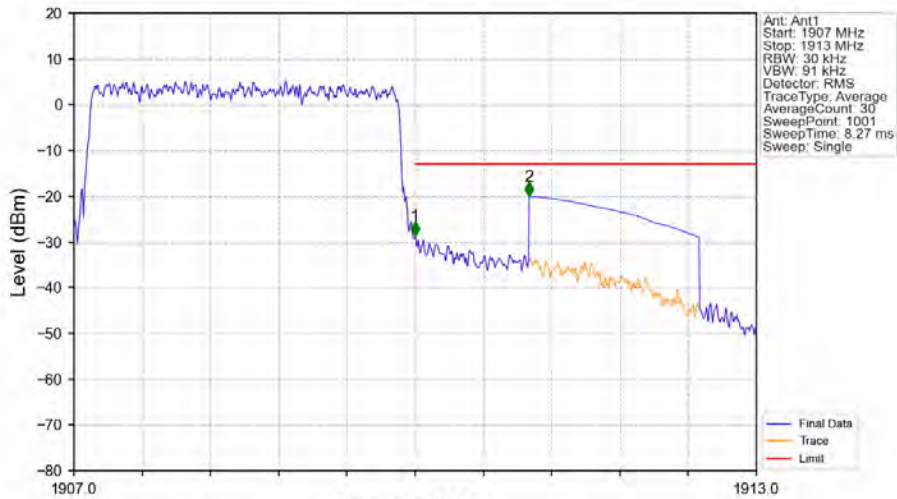
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Band2\_3MHz\_QPSK\_HCH\_1908.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1907	1910	0.03	/	1	1910.000	-28.72	-13	Pass
1910	1913	0.03	CHP	2	1911.002	-20.05	-13	Pass



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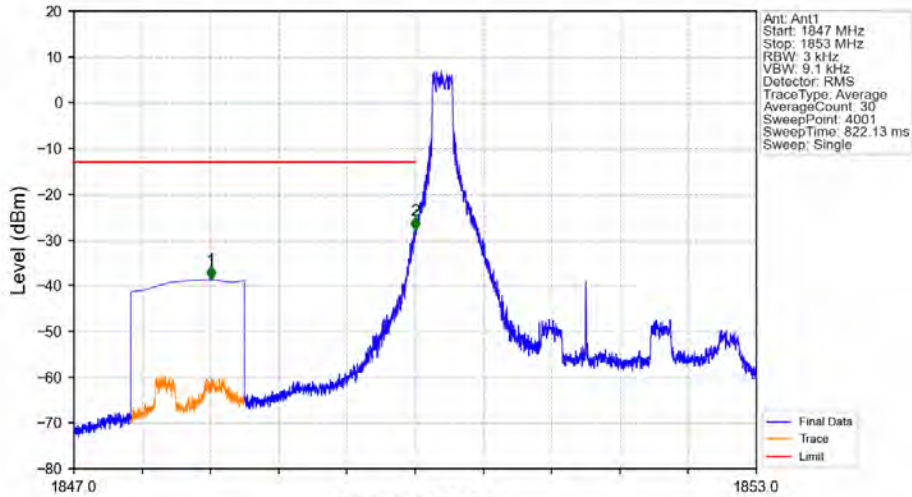
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Band2\_3MHz\_16QAM\_LCH\_1851.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1847	1849	1	CHP	1	1848.205	-38.68	-13	Pass
1849	1850	0.003	/	2	1850.000	-28.03	-13	Pass
1850	1853	0.003	/	/	/	/	/	/



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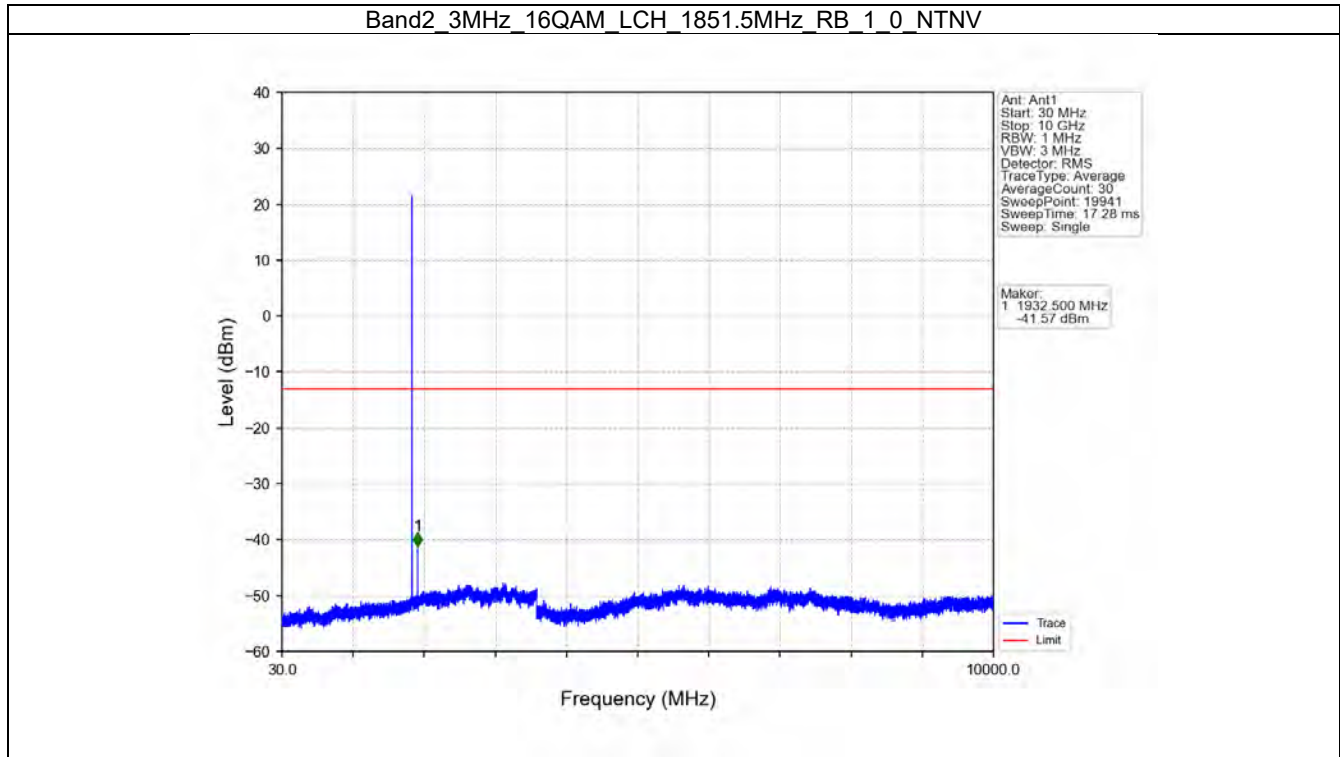


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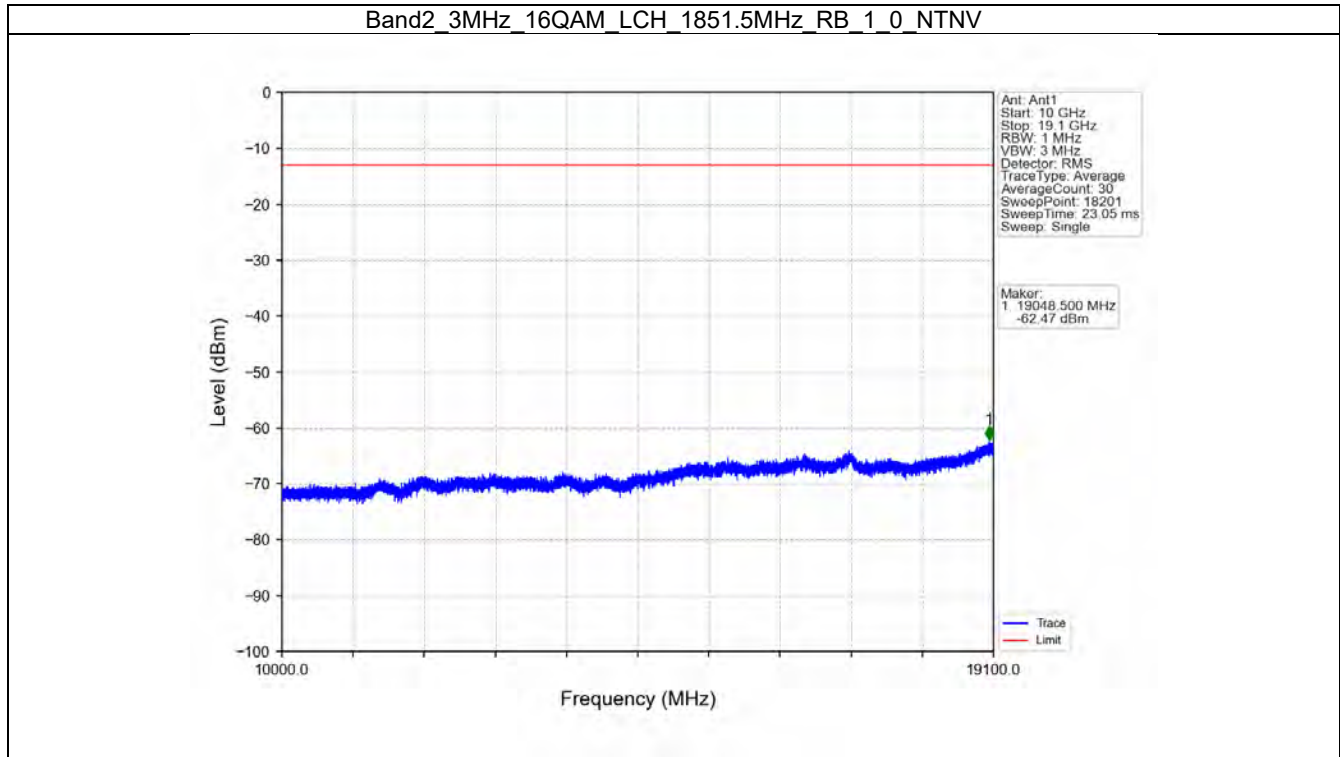


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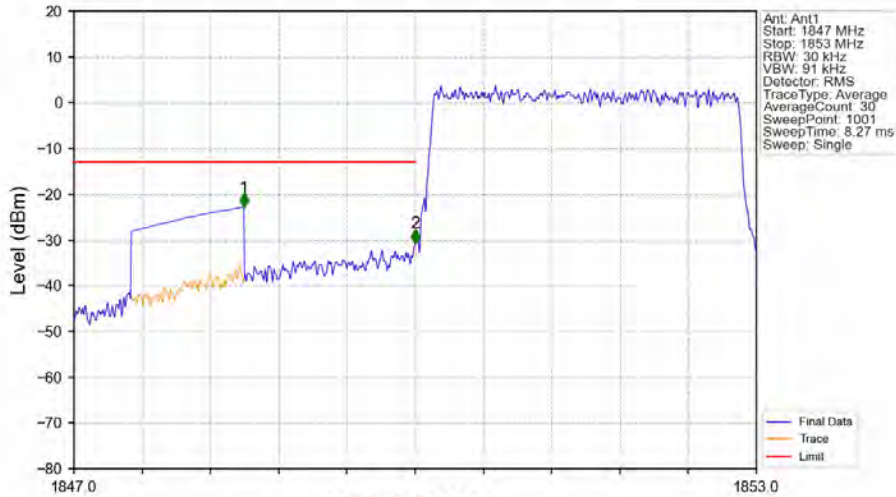
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Band2\_3MHz\_16QAM\_LCH\_1851.5MHz\_RB\_15\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1847	1849	1	CHP	1	1848.494	-22.83	-13	Pass
1849	1850	0.03	/	2	1850.000	-30.72	-13	Pass
1850	1853	0.03	/	/	/	/	/	/



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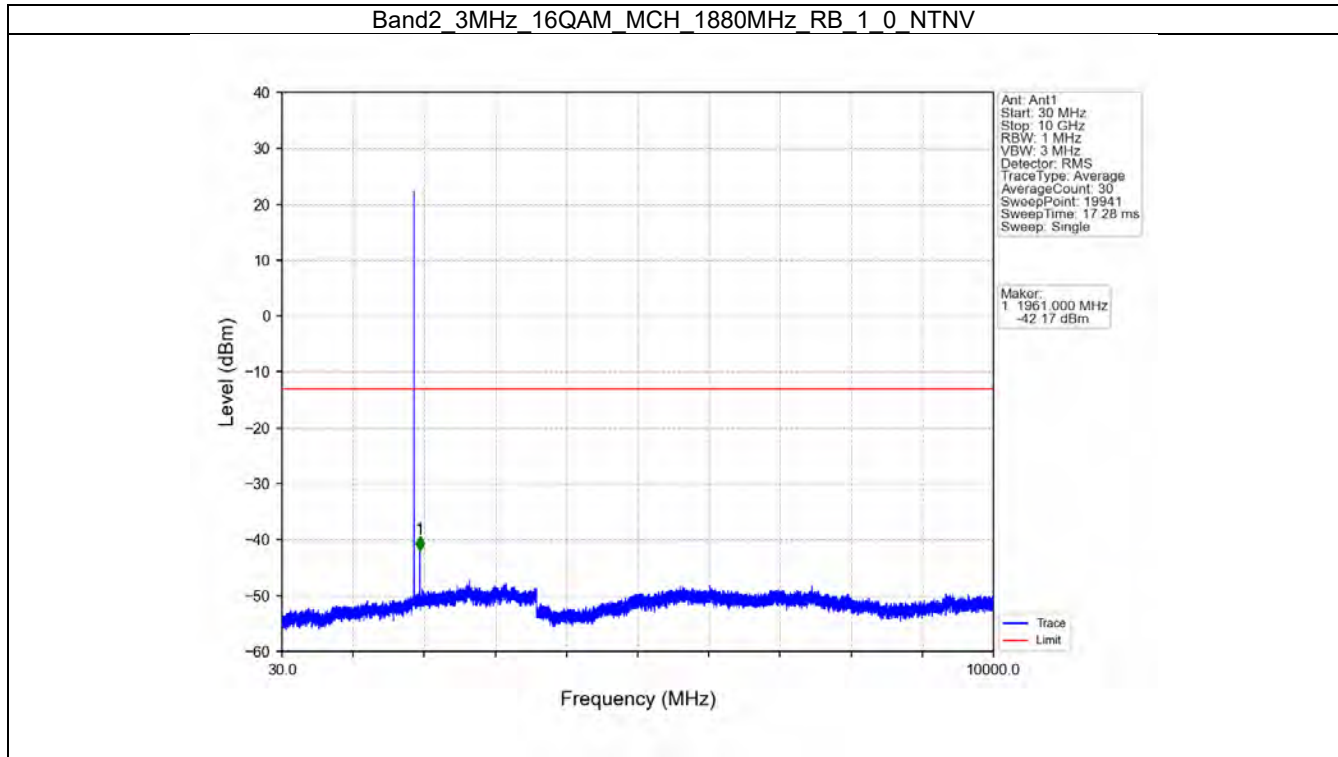


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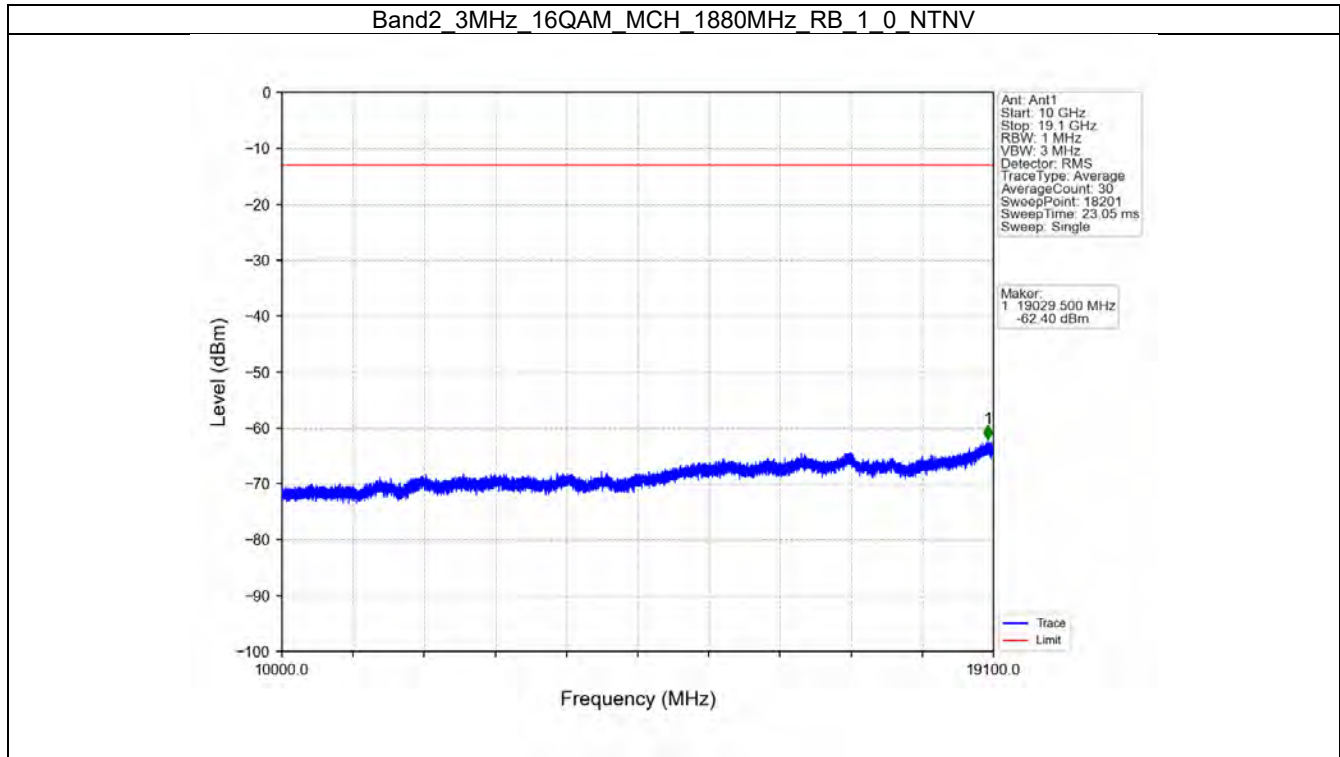


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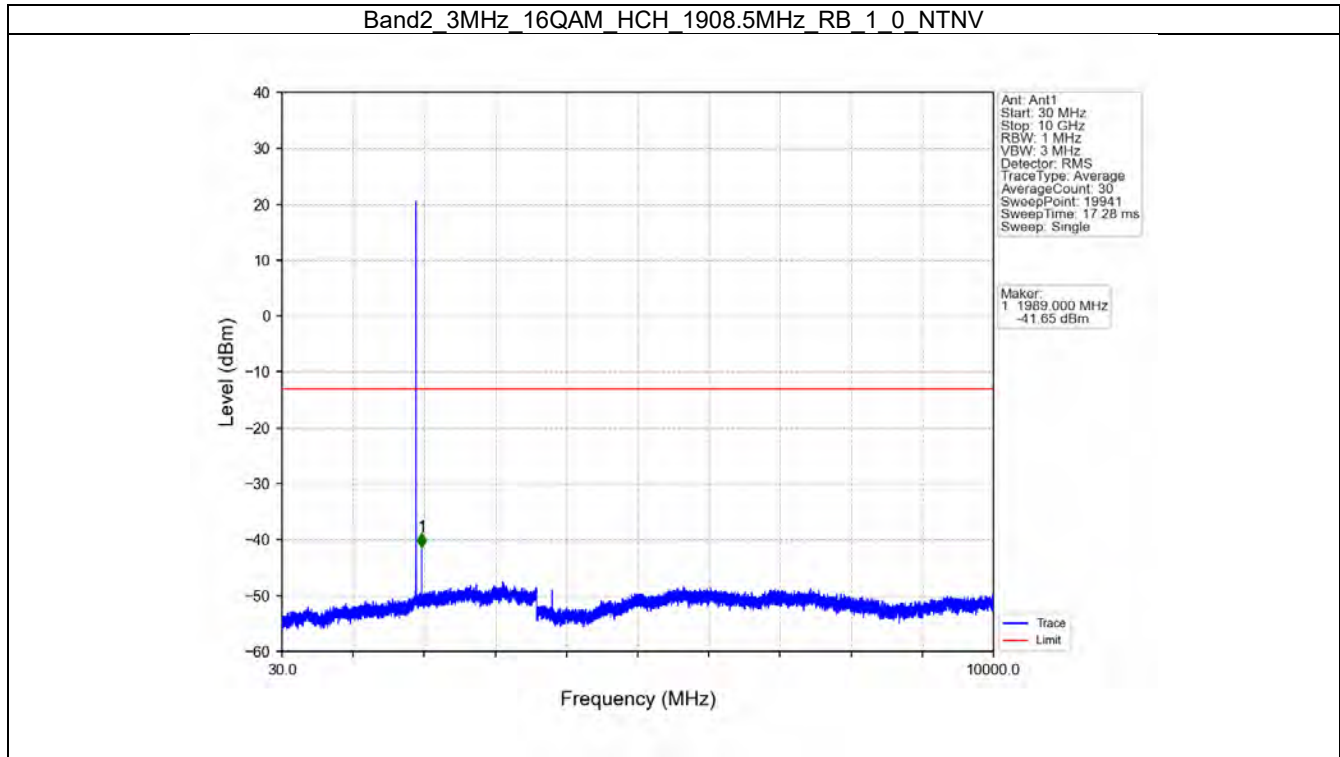


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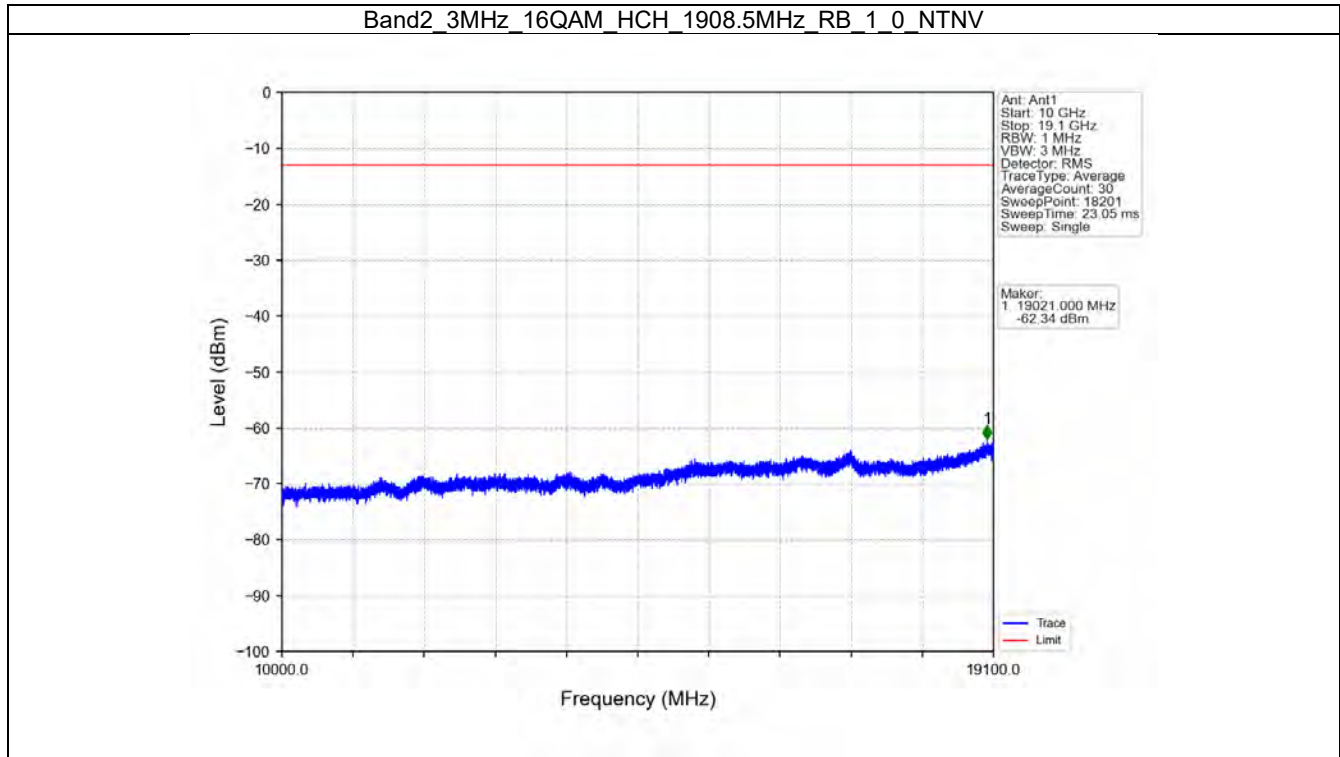


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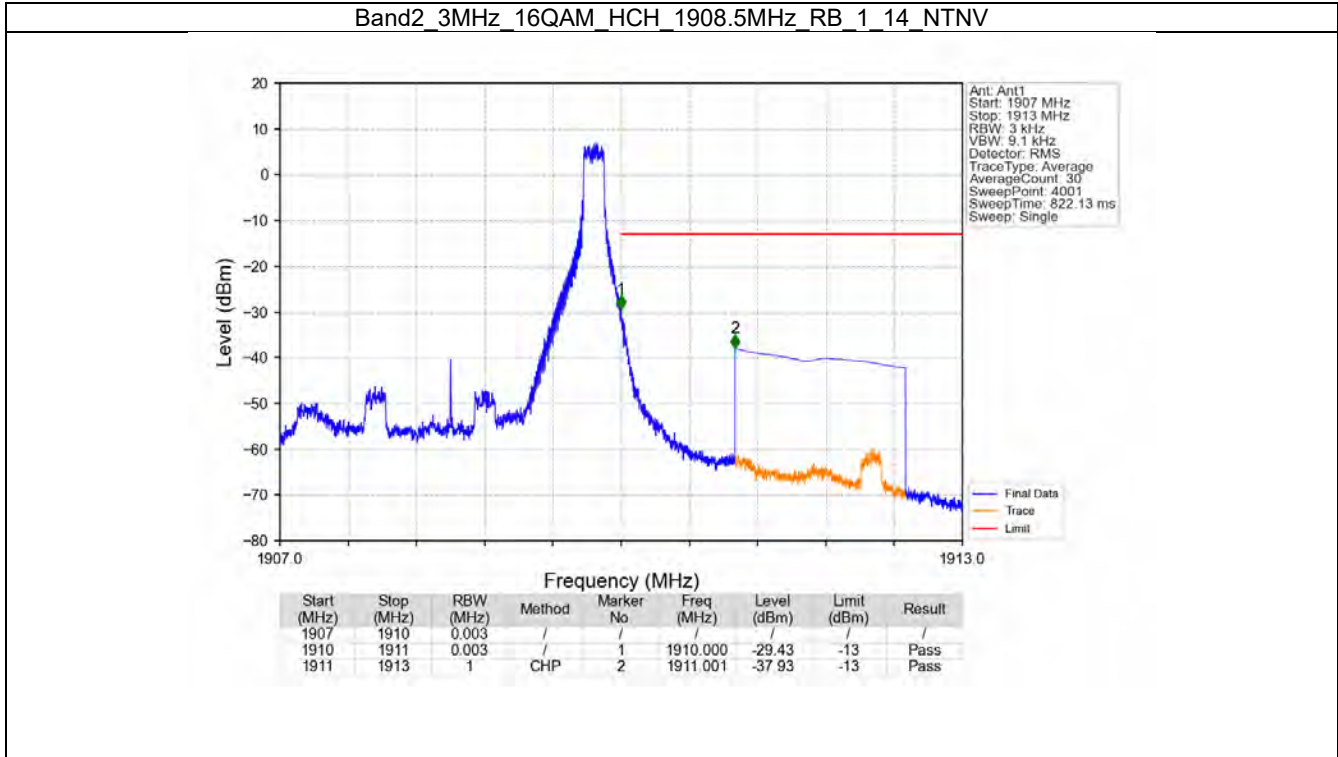
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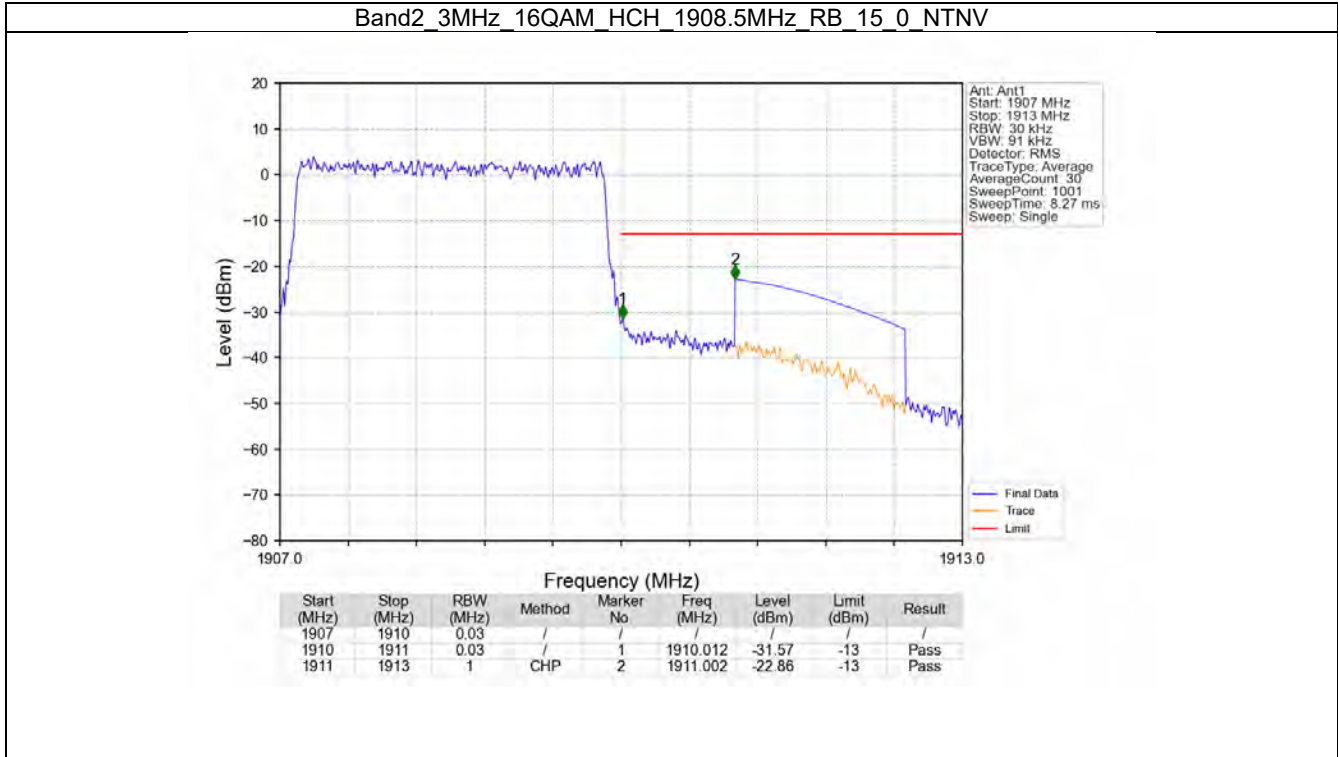
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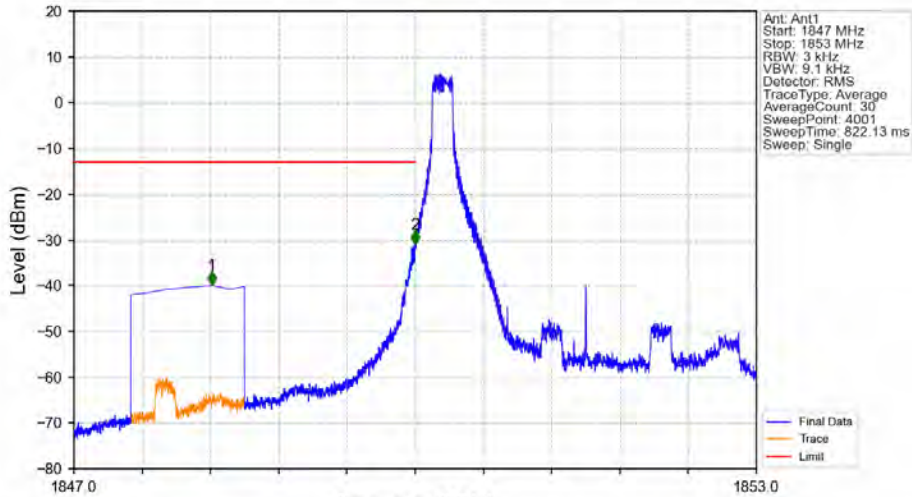
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Band2\_3MHz\_64QAM\_LCH\_1851.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1847	1849	1	CHP	1	1848.210	-39.97	-13	Pass
1849	1850	0.003	/	2	1850.000	-31.03	-13	Pass
1850	1853	0.003	/	/	/	/	/	/



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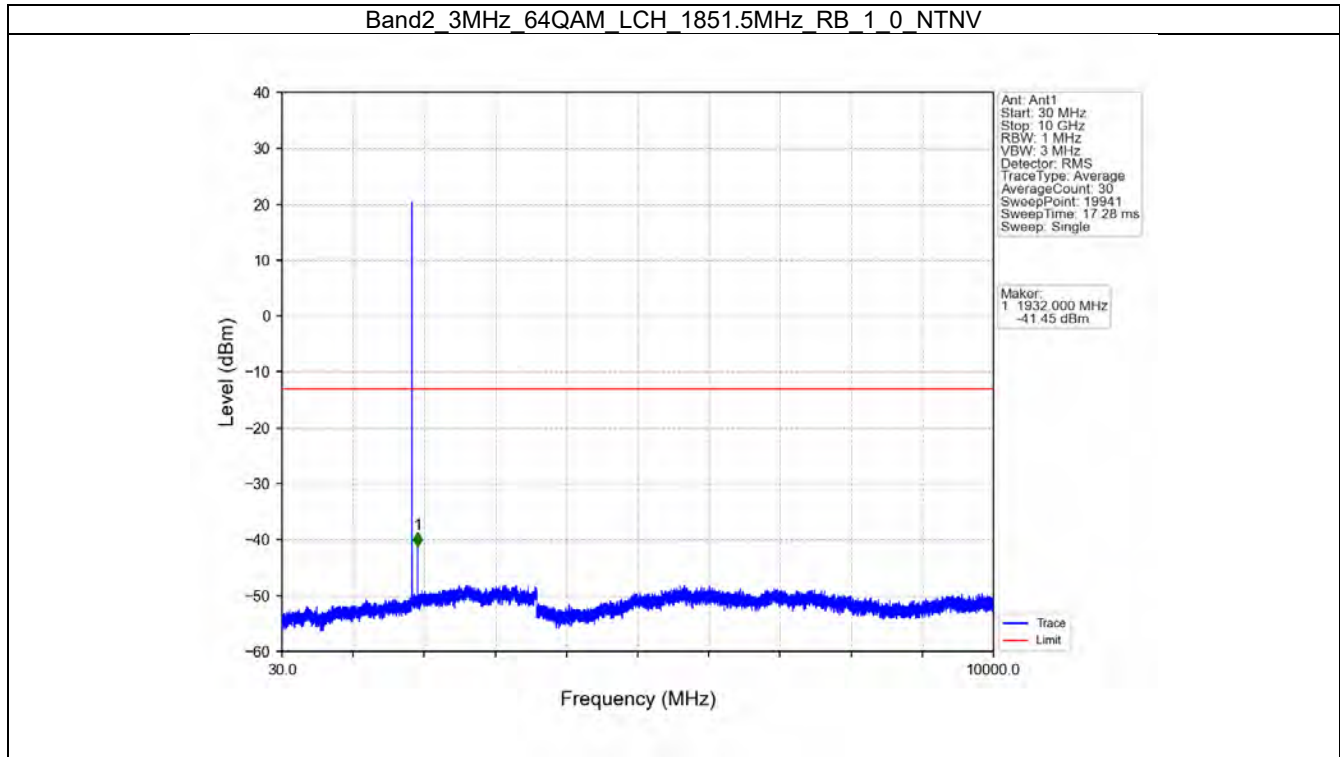


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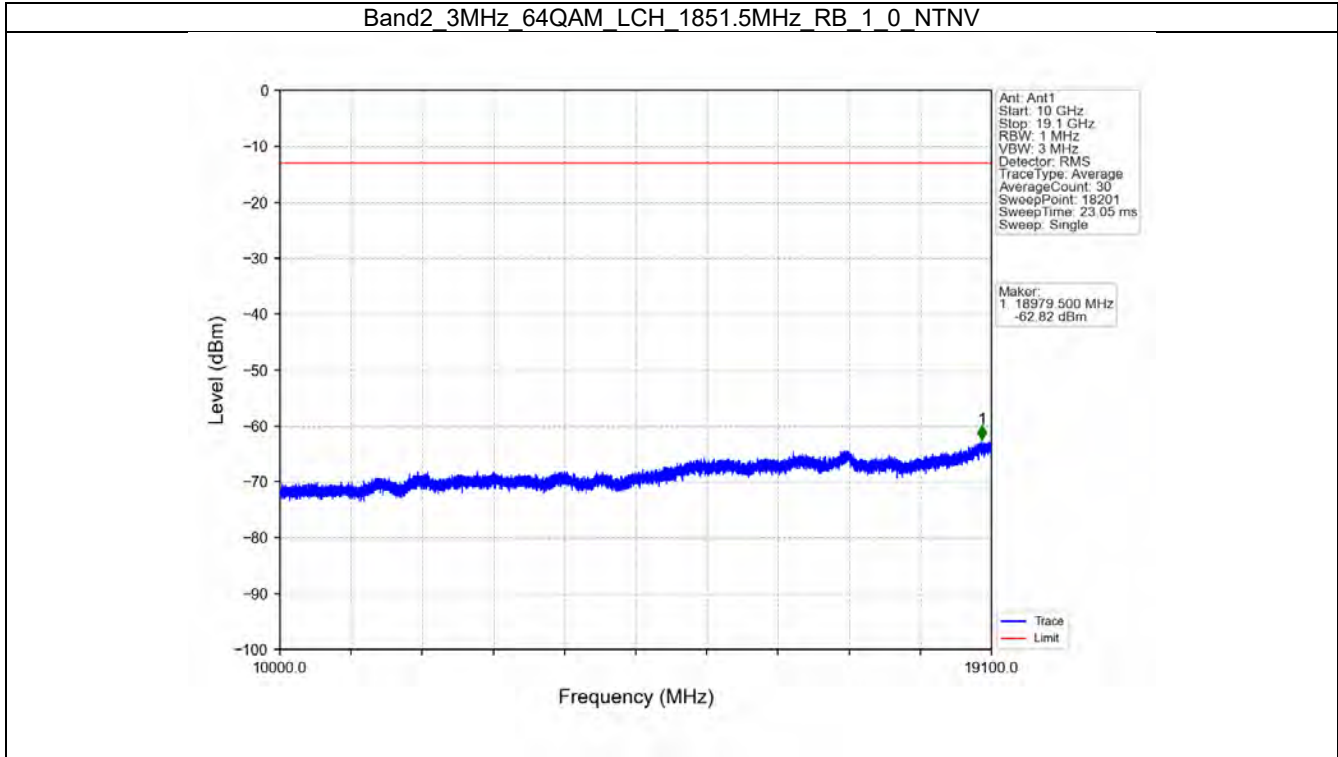
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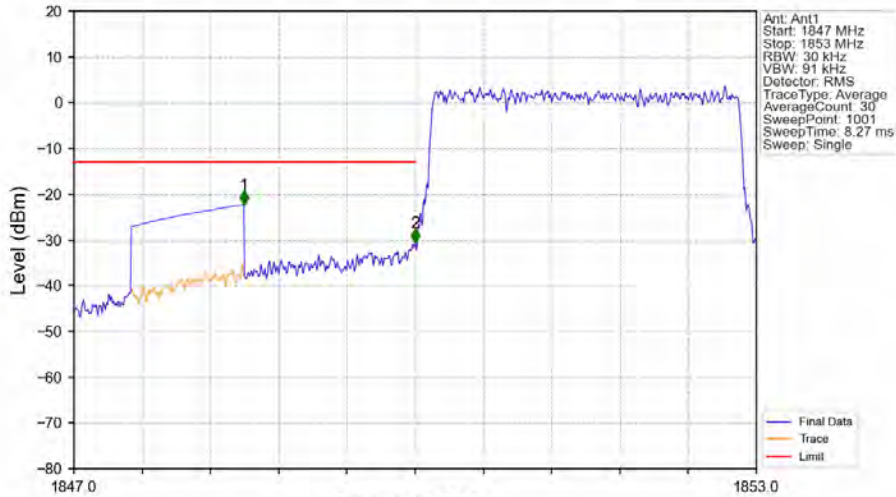
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
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1849	1850	0.03	/	2	1850.000	-30.68	-13	Pass
1850	1853	0.03	/	/	/	/	/	/



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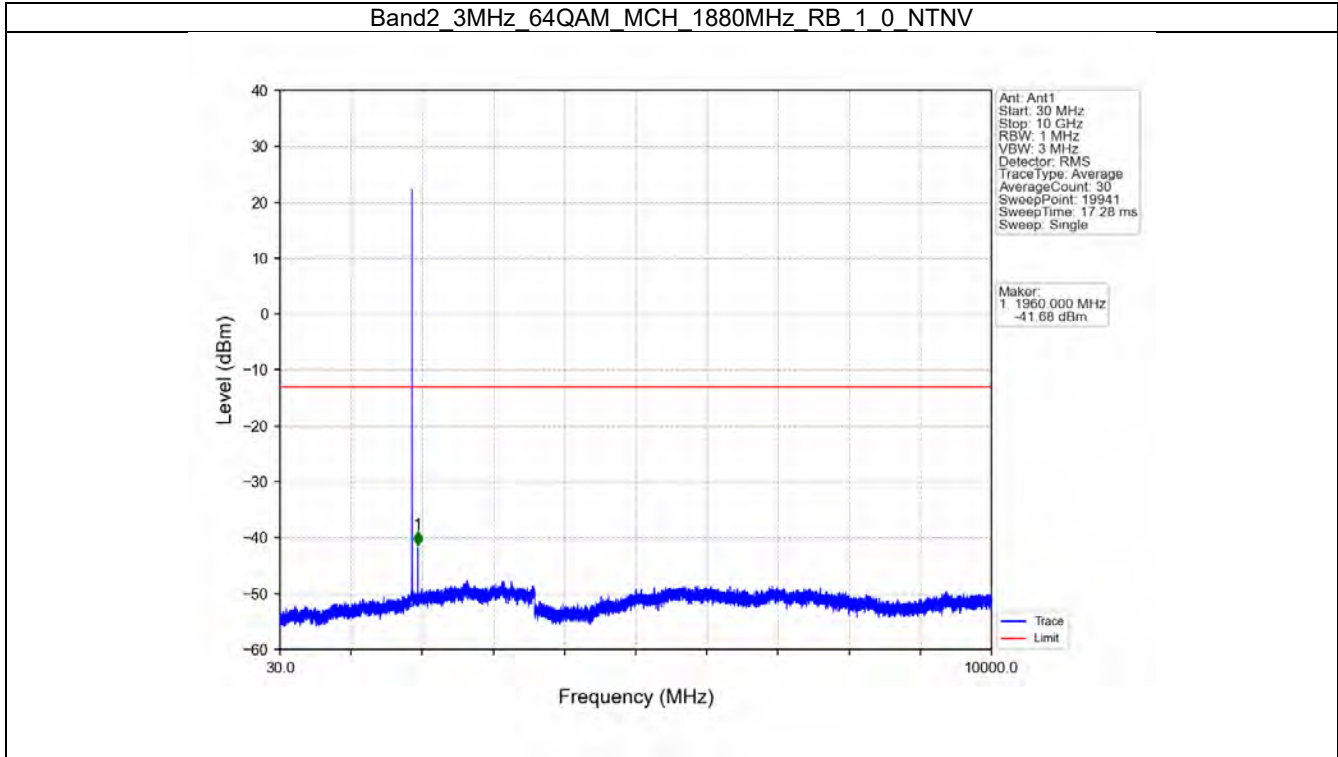


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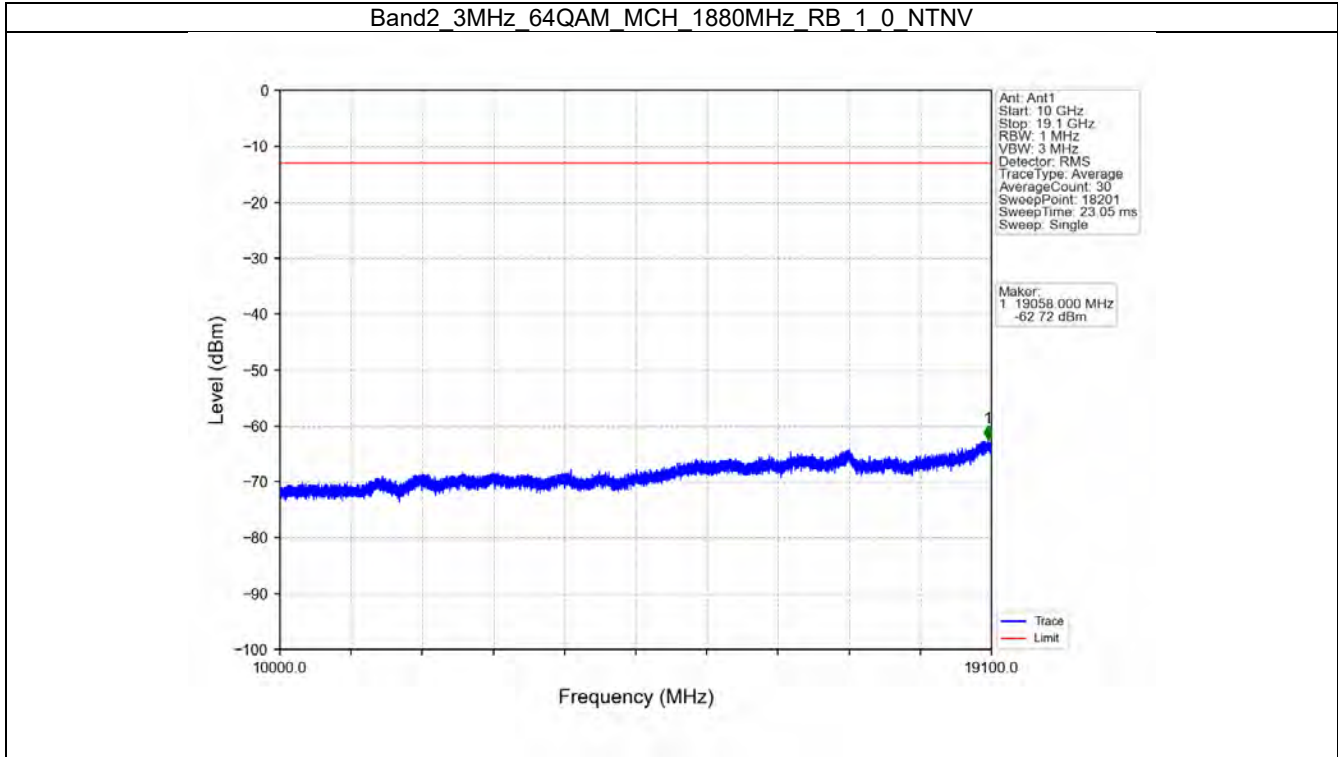
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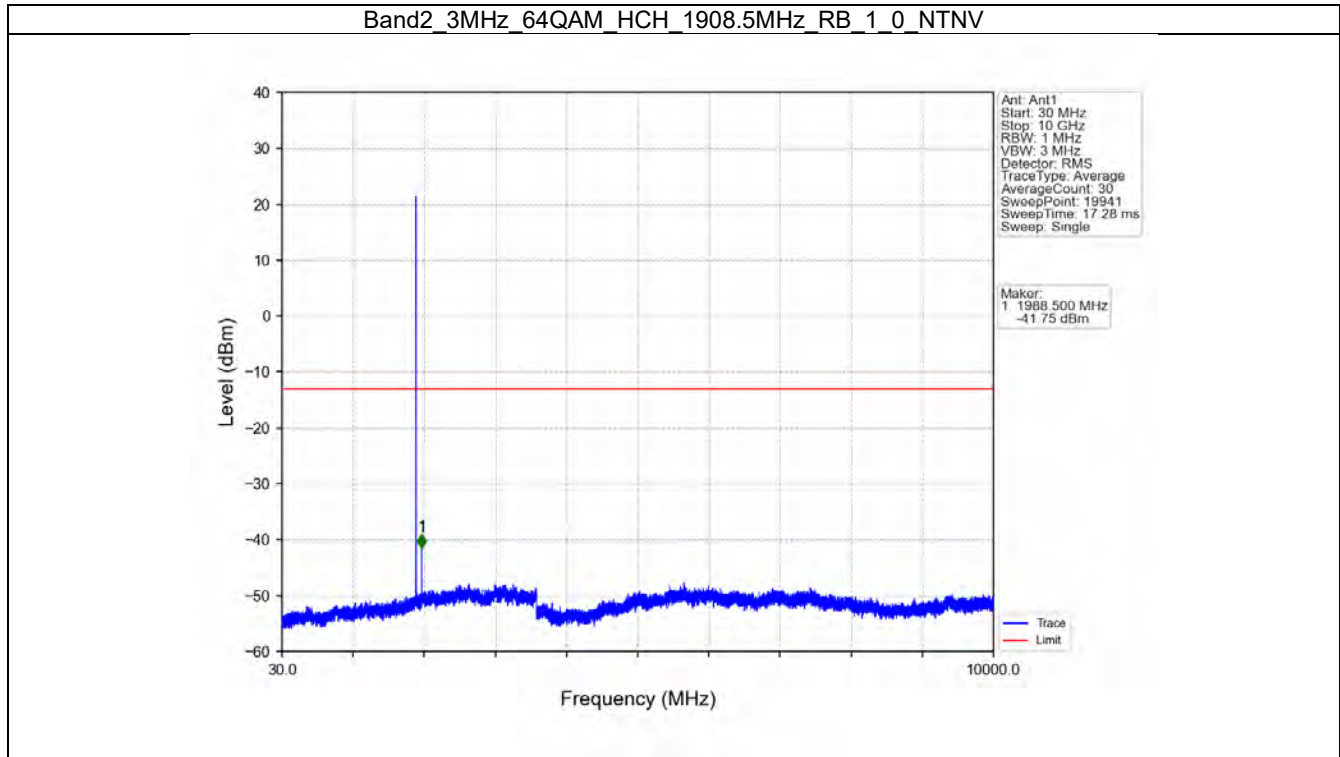


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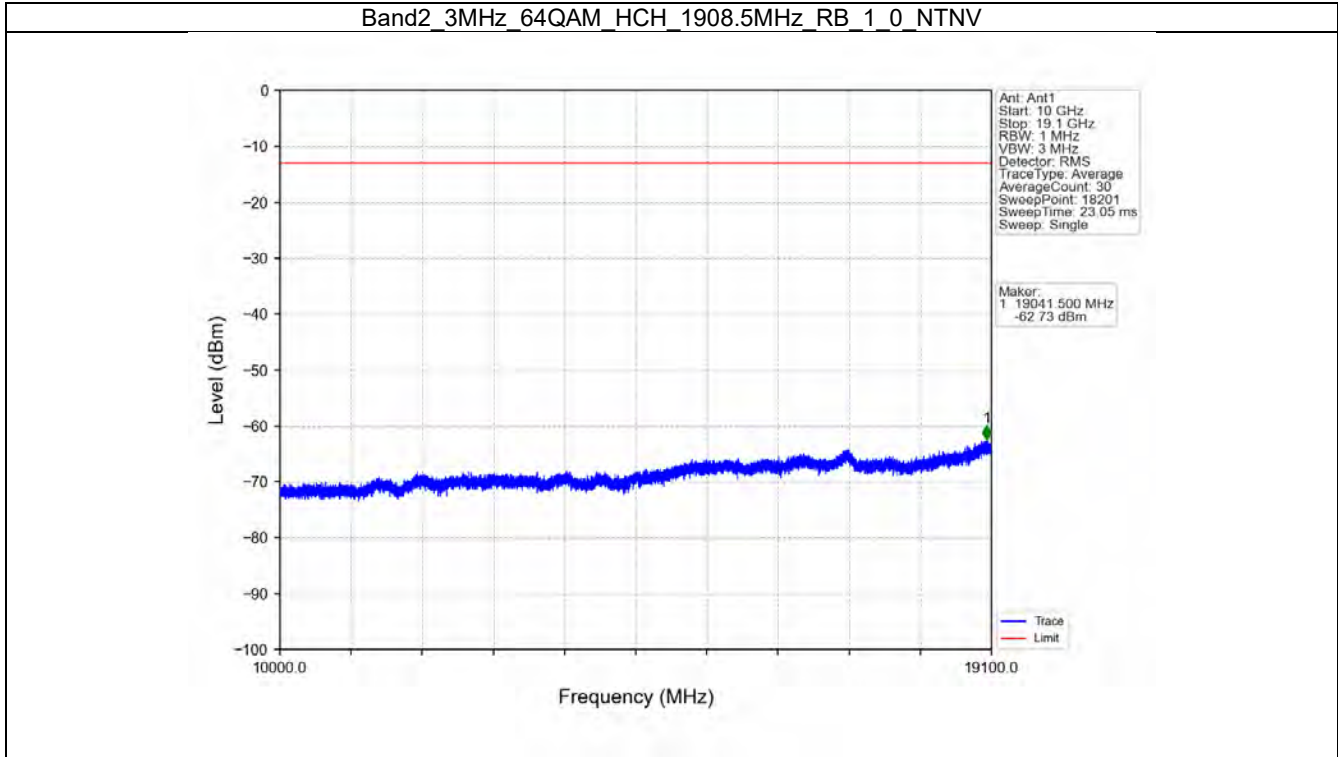
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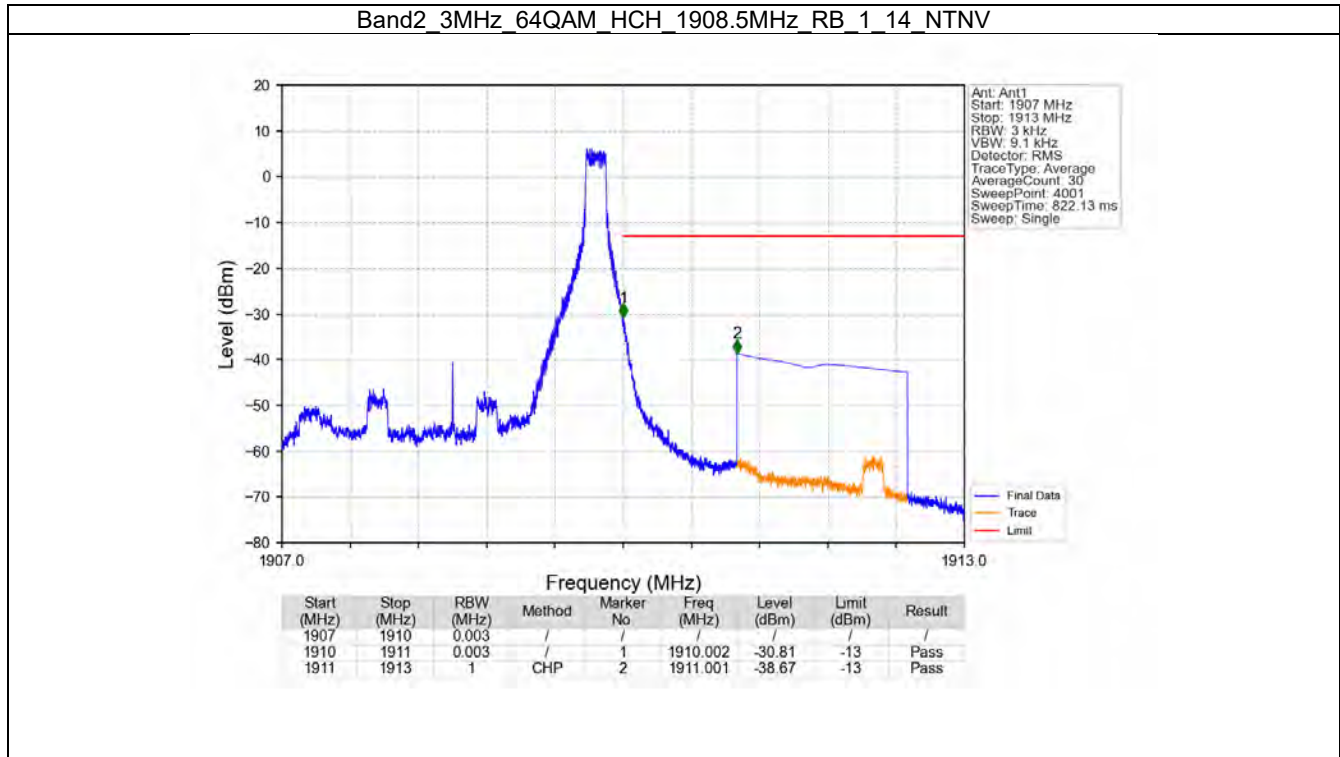
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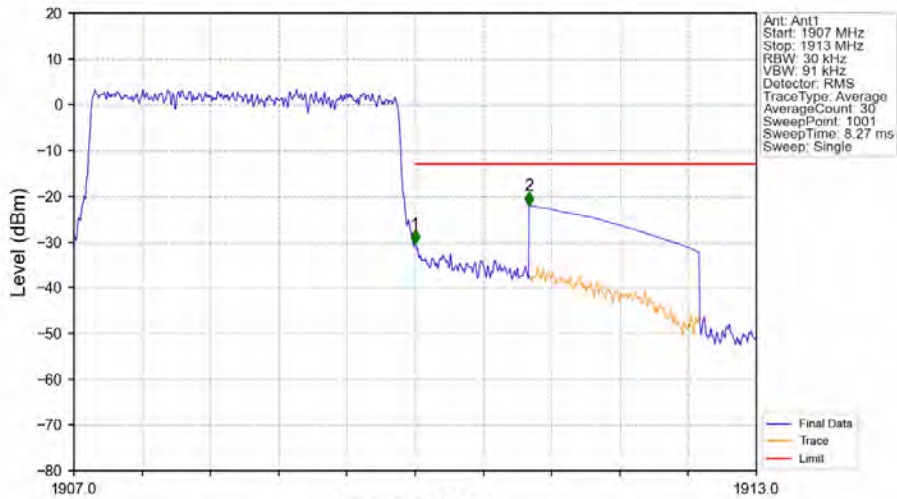
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Band2\_3MHz\_64QAM\_HCH\_1908.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1907	1910	0.03	/	1	1910.000	-30.49	-13	Pass
1910	1911	0.03	CHP	2	1911.002	-22.09	-13	Pass



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## 5.3 B2\_5MHz

### 5.3.1 Test Result

Band: 2 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1852.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	1907.5	1880	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass	
			24	Refer To Test Graph	Pass	
16QAM	1852.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	1907.5	1880	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass	
			24	Refer To Test Graph	Pass	
64QAM	1852.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	1907.5	1880	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass	
			24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	



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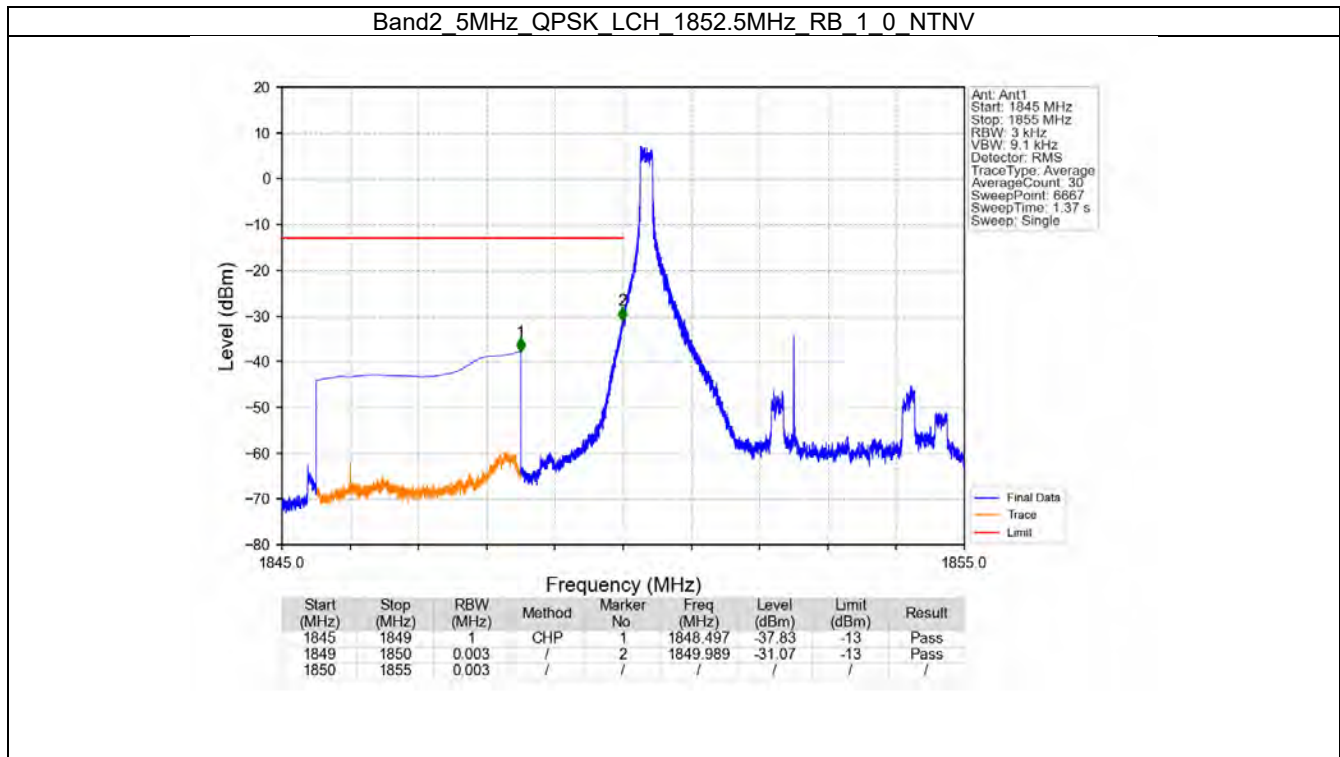
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## 5.3.2 Test Graph



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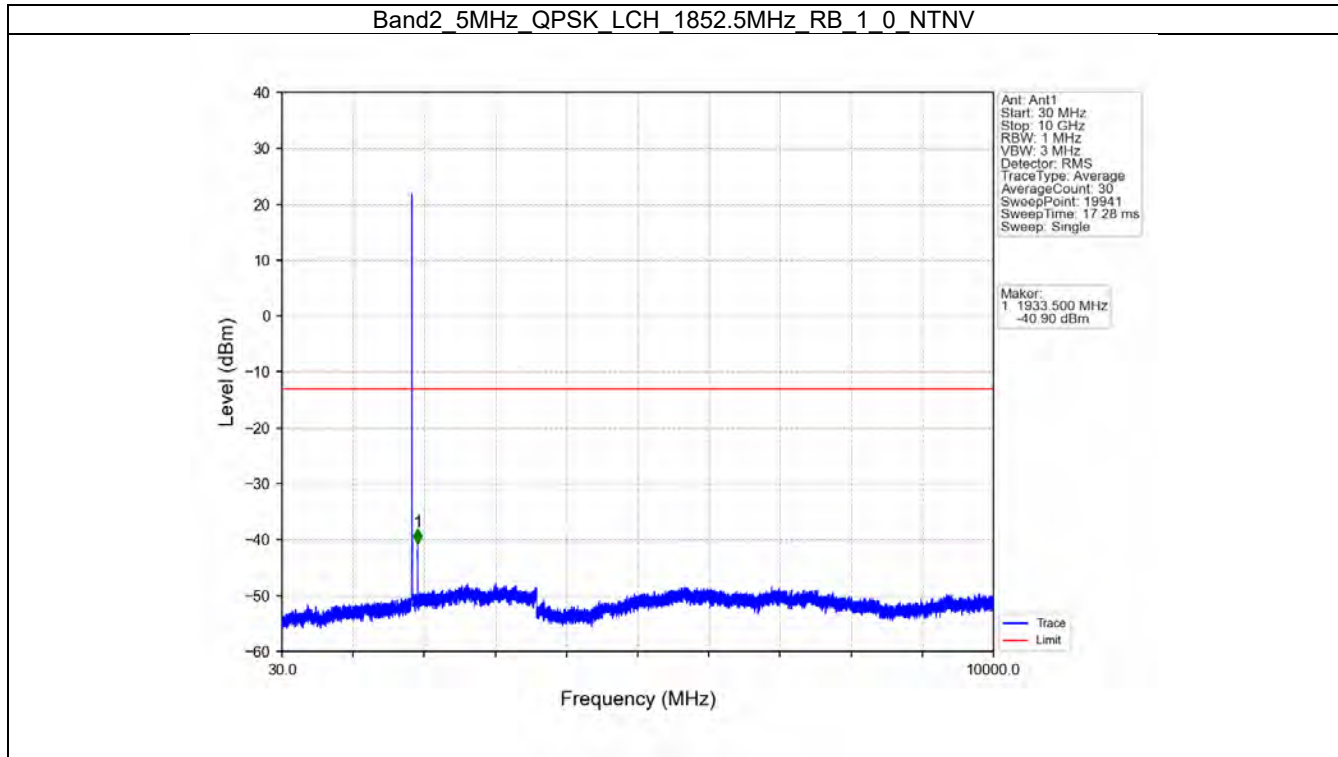


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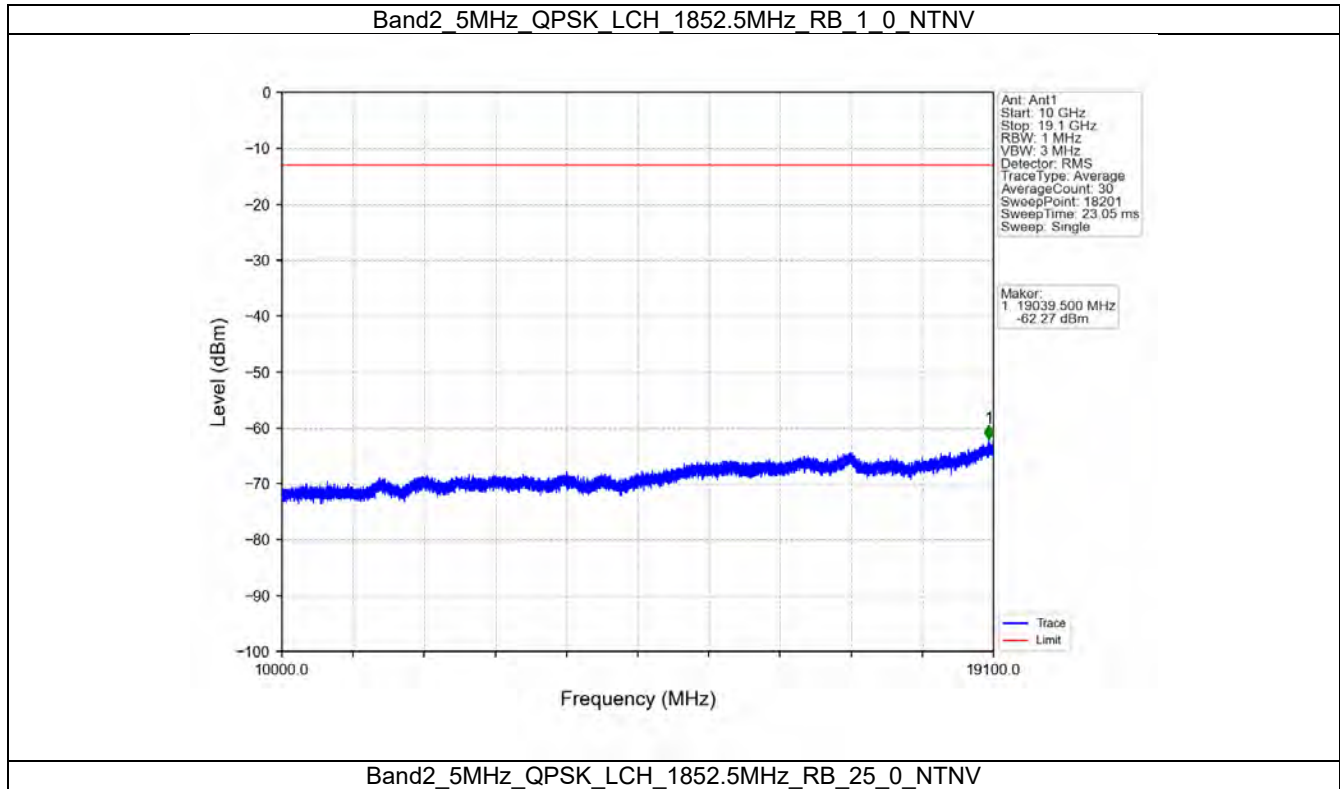


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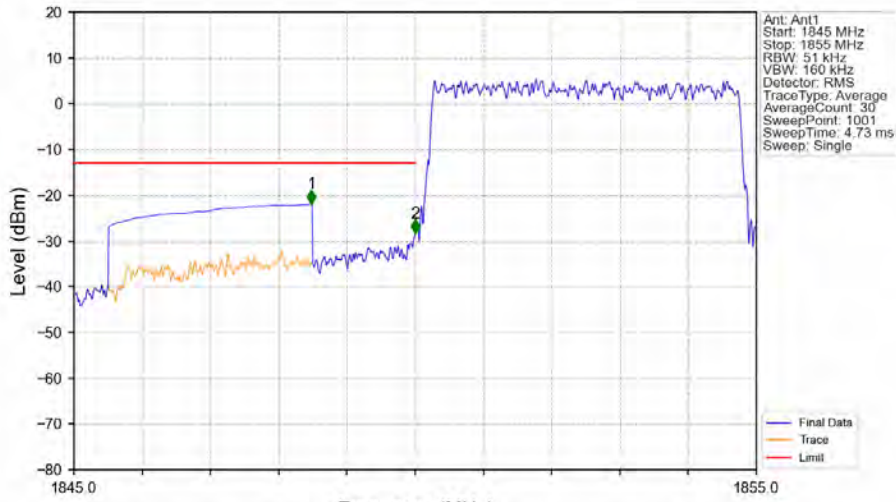
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	CHP	1	1848.480	-21.90	-13	Pass
1849	1850	0.051	/	2	1850.000	-28.27	-13	Pass
1850	1855	0.051	/	/	/	/	/	/



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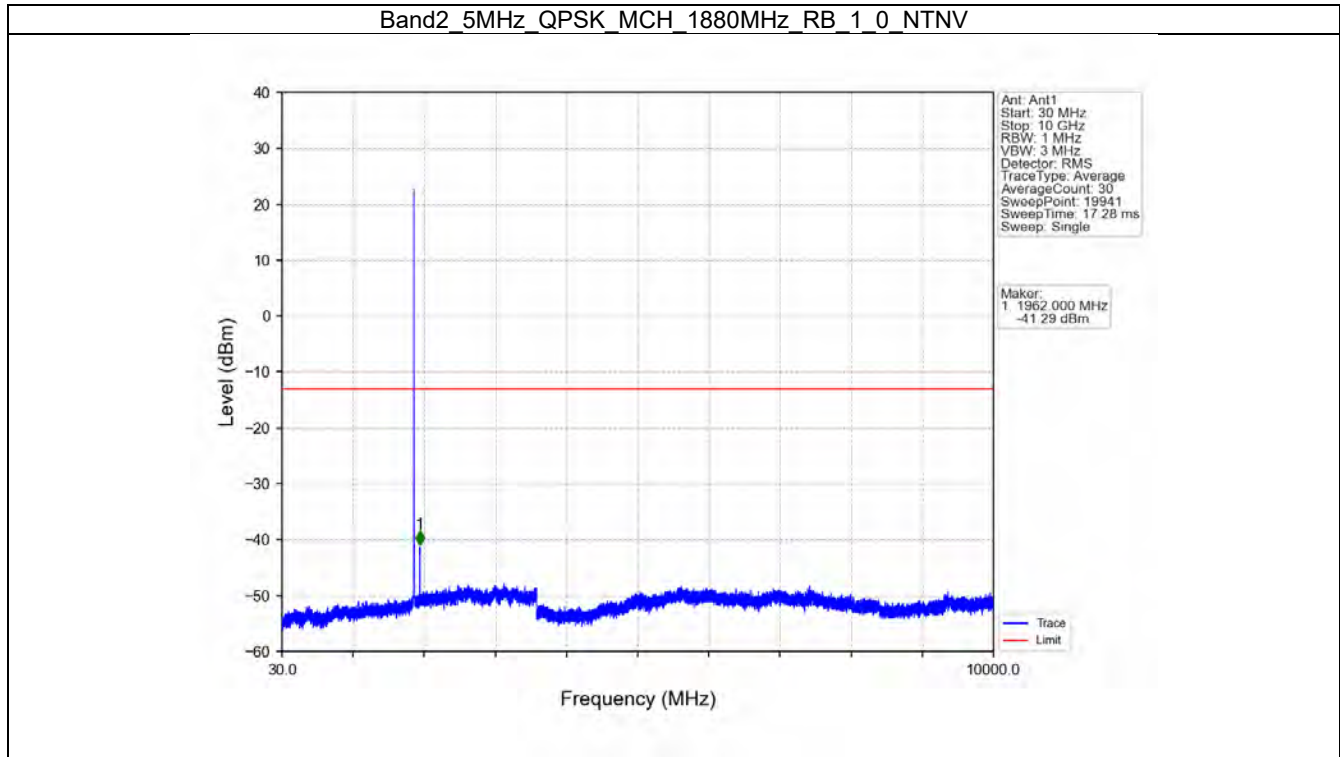


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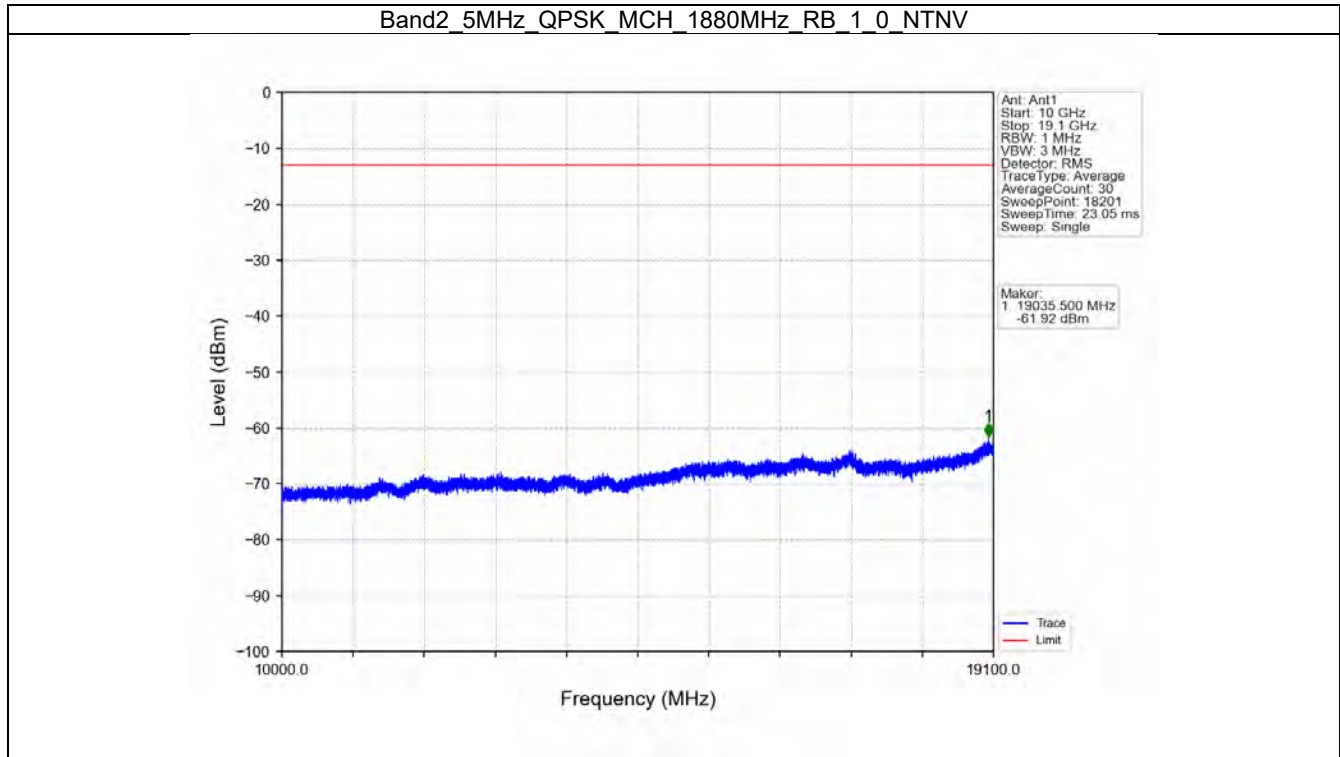


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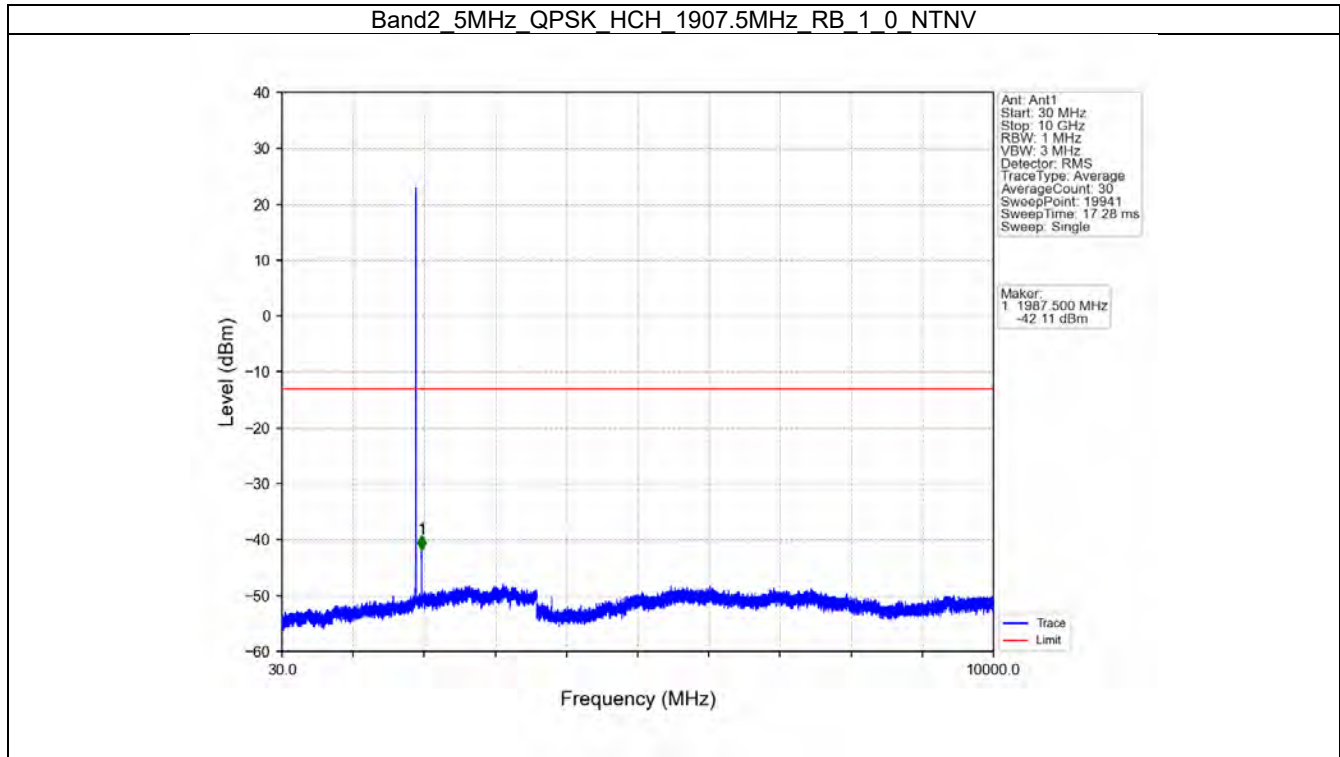
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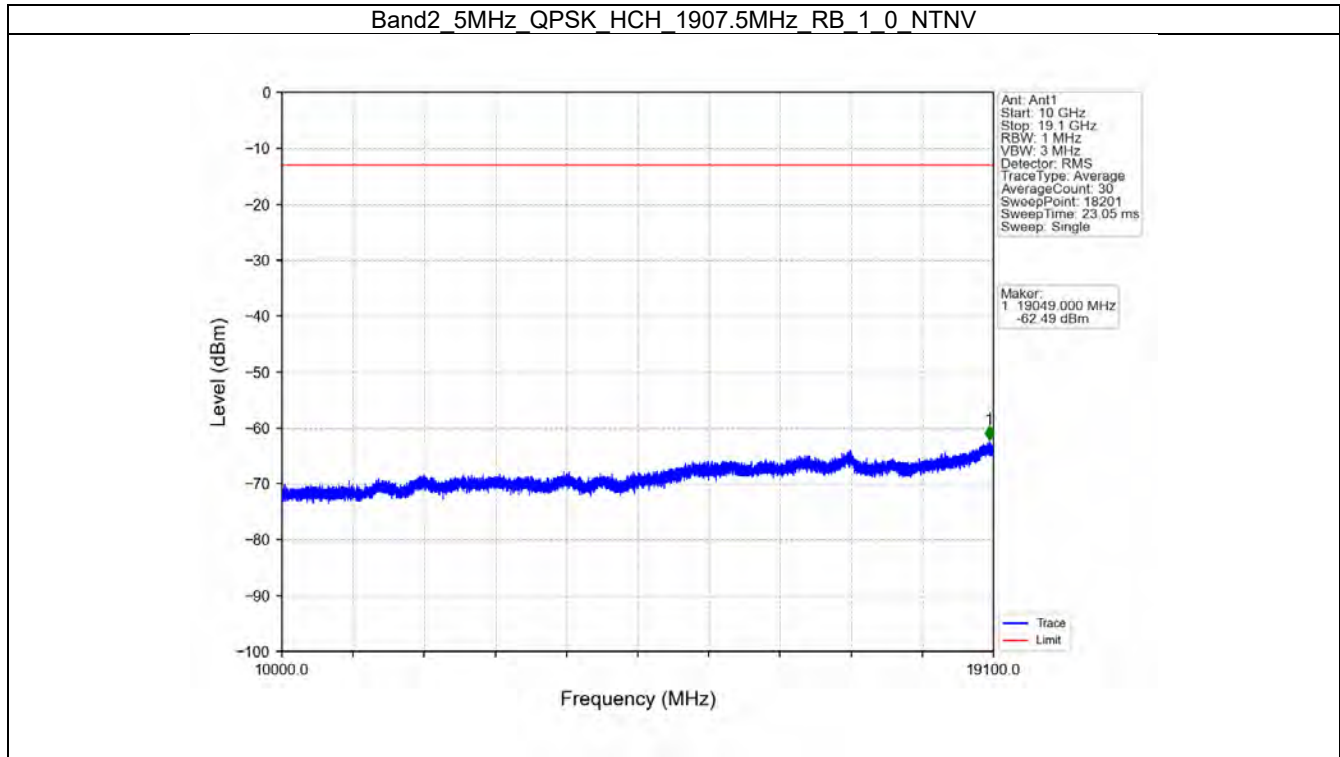


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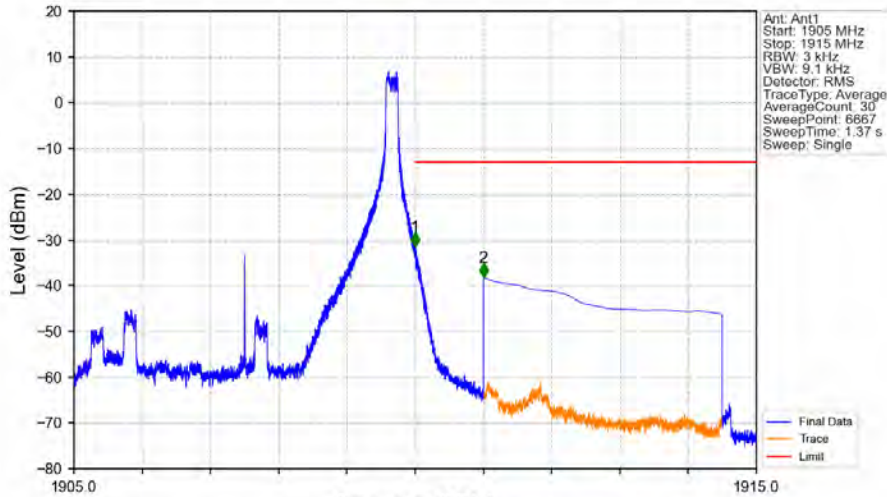
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Band2\_5MHz\_QPSK\_HCH\_1907.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1905	1910	0.003	/	1	1910.000	-31.54	-13	Pass
1910	1911	0.003	CHP	2	1911.001	-38.16	-13	Pass



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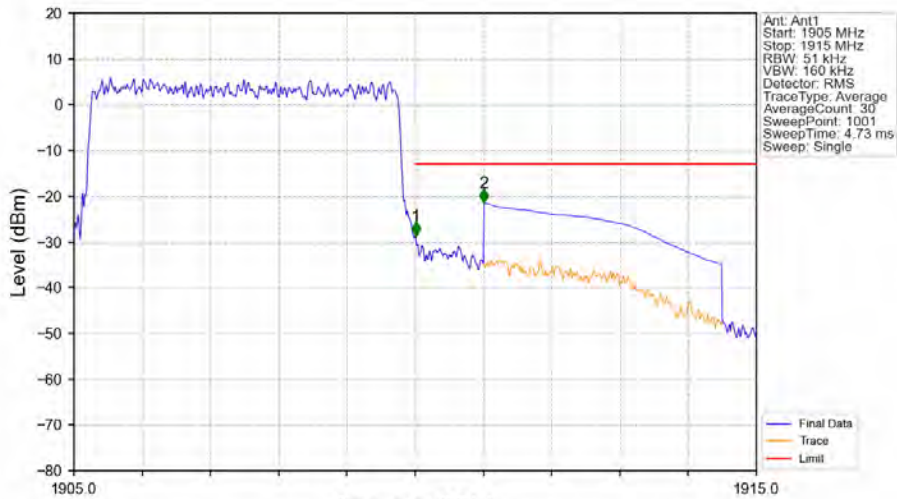




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Band2\_5MHz\_QPSK\_HCH\_1907.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1905	1910	0.051	/	1	1910.010	-28.65	-13	Pass
1910	1915	0.051	CHP	2	1911.010	-21.51	-13	Pass



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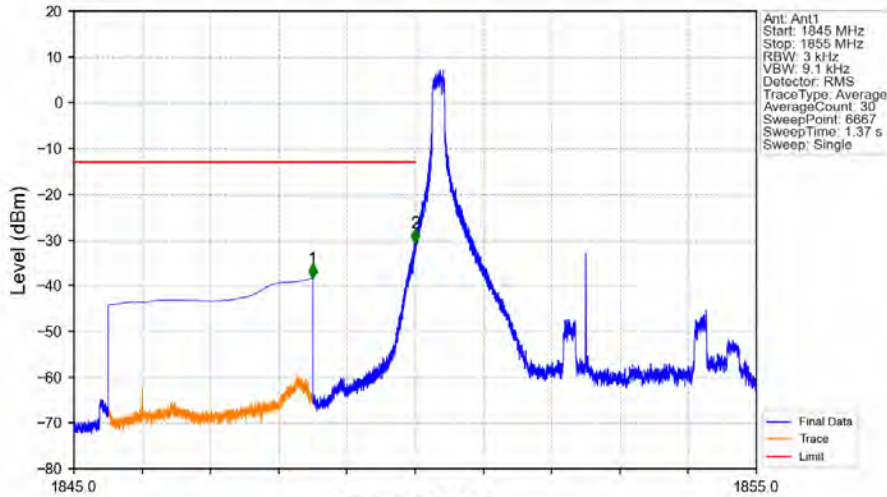
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Band2\_5MHz\_16QAM\_LCH\_1852.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	CHP	1	1848.498	-38.39	-13	Pass
1849	1850	0.003	/	2	1850.000	-30.64	-13	Pass
1850	1855	0.003	/	/	/	/	/	/



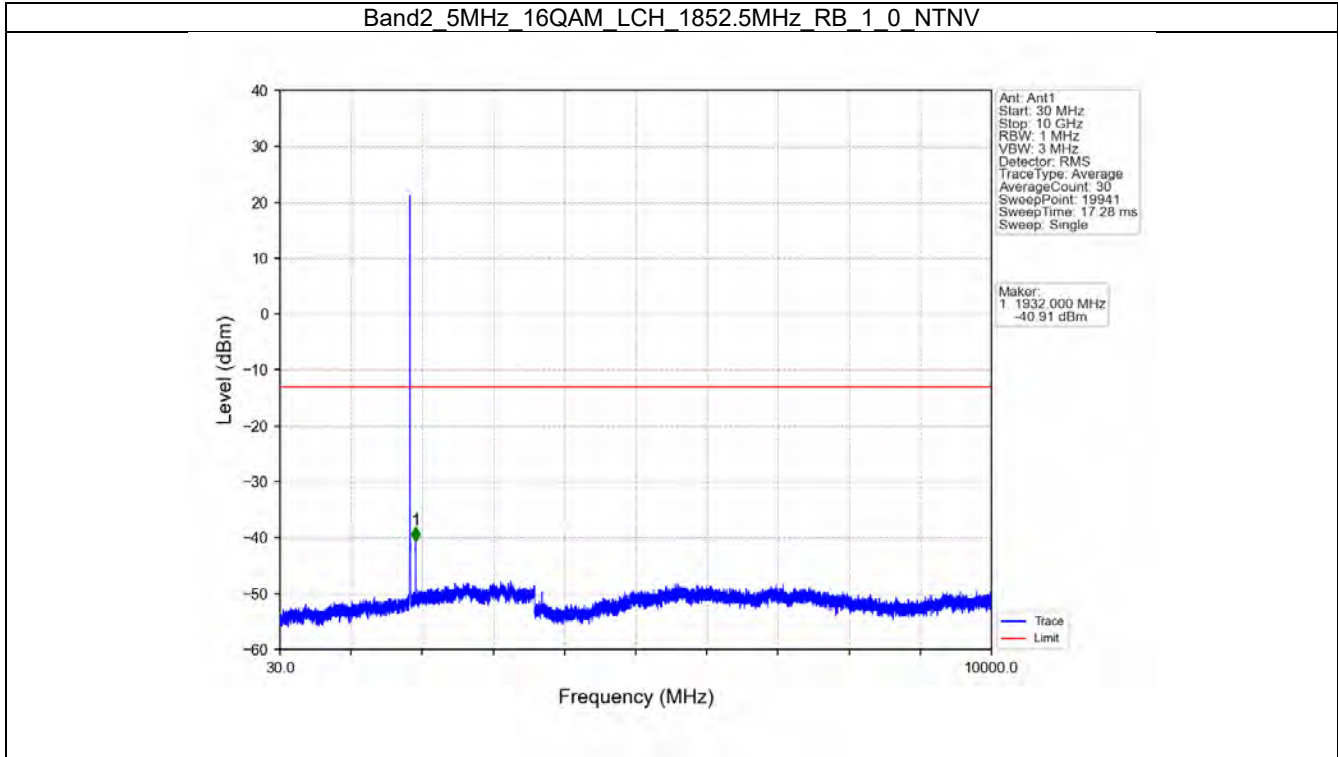
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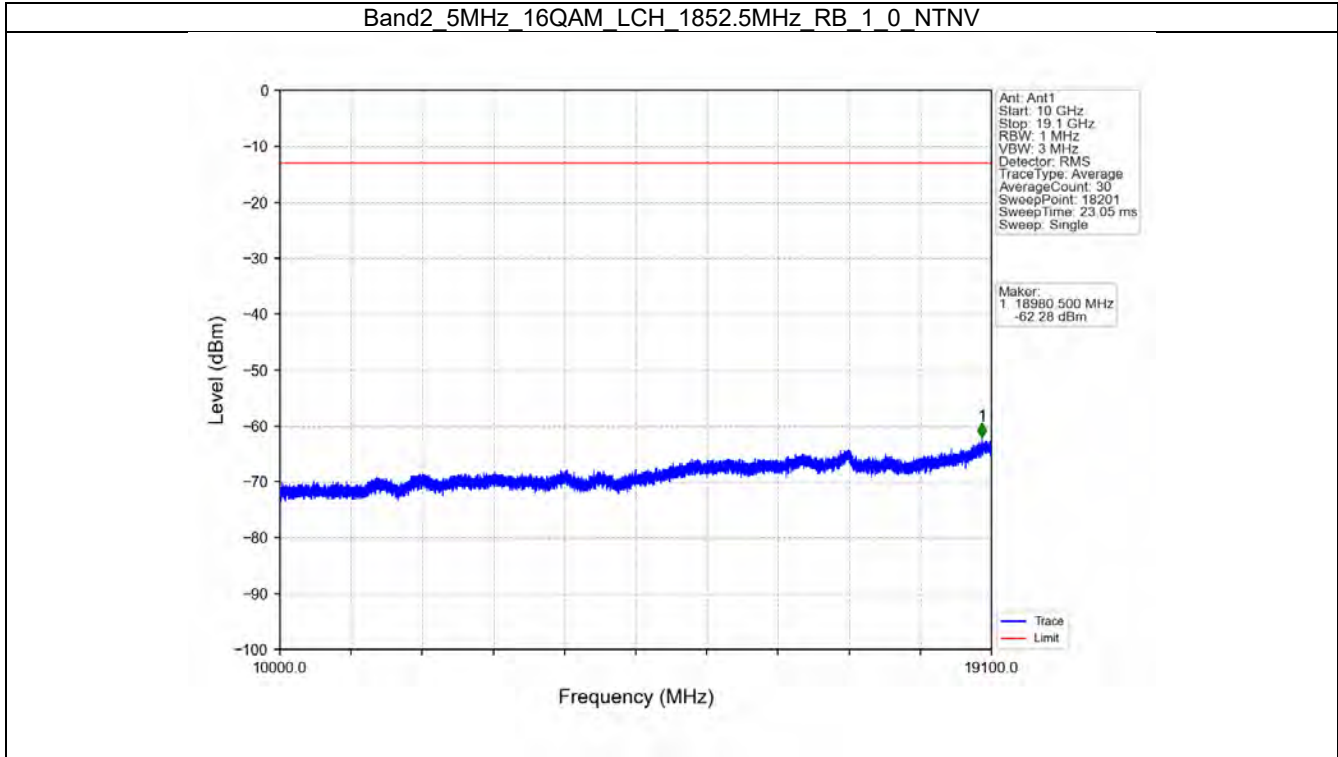
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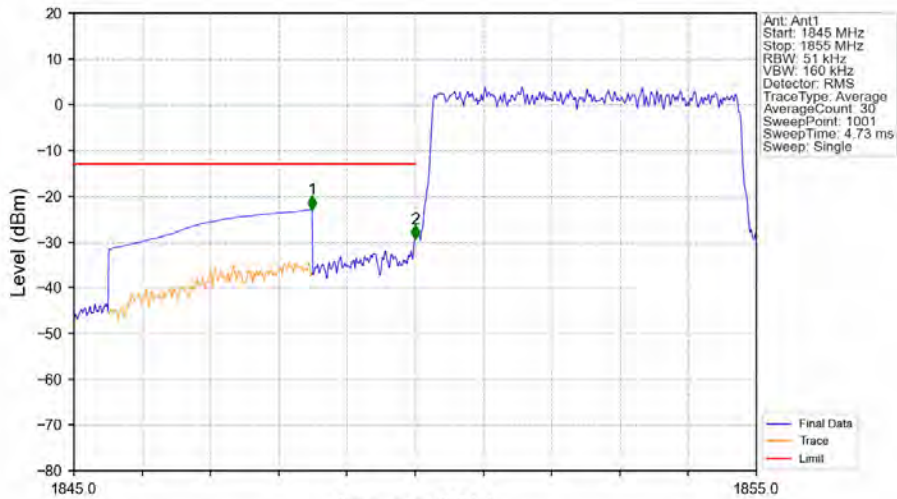
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Band2\_5MHz\_16QAM\_LCH\_1852.5MHz\_RB\_25\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	CHP	1	1848.490	-22.94	-13	Pass
1849	1850	0.051	/	2	1850.000	-29.42	-13	Pass
1850	1855	0.051	/	/	/	/	/	/



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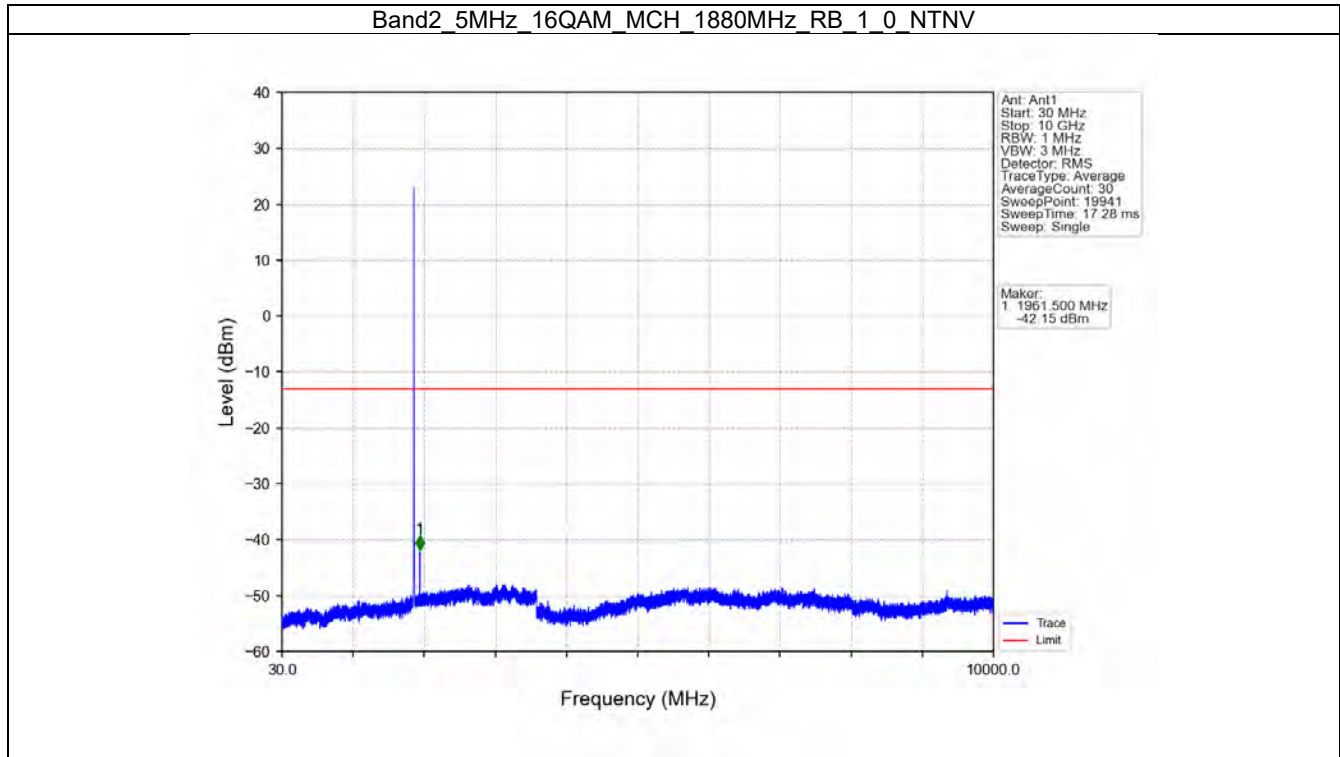


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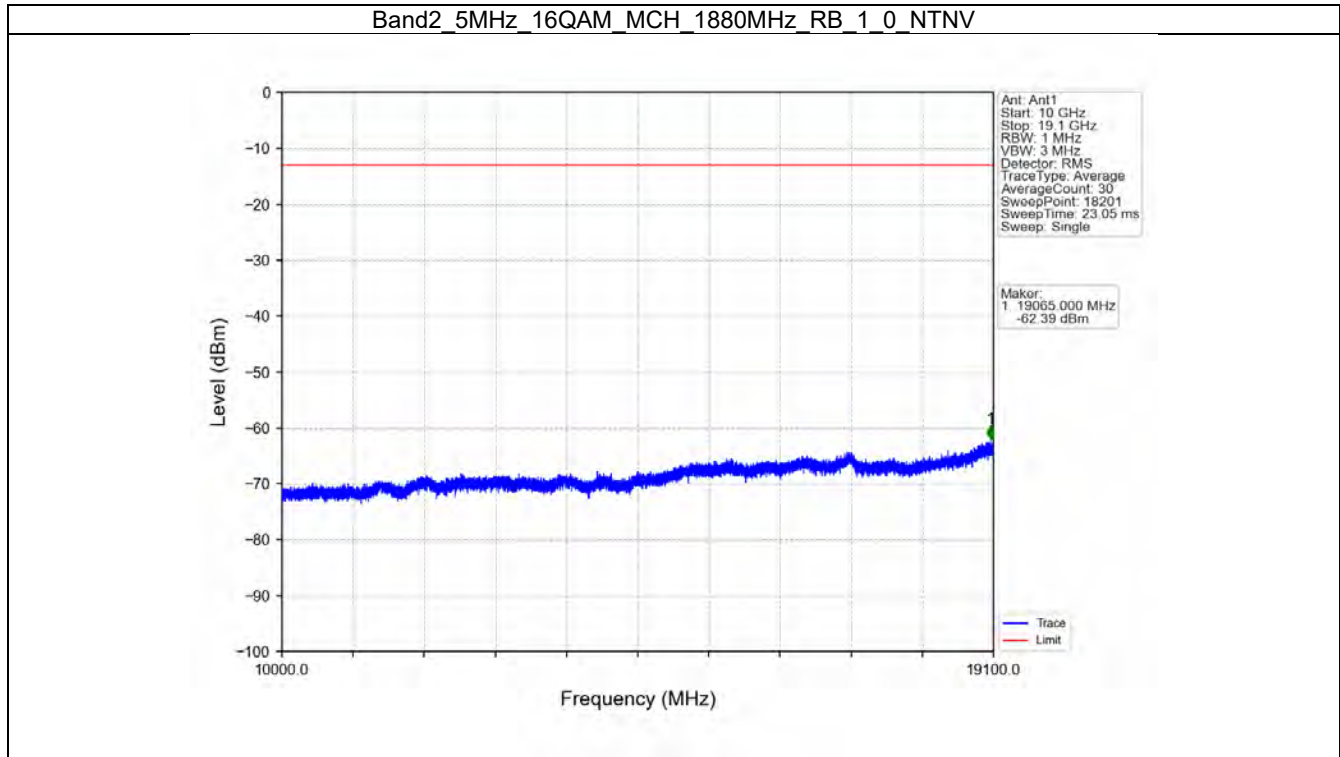


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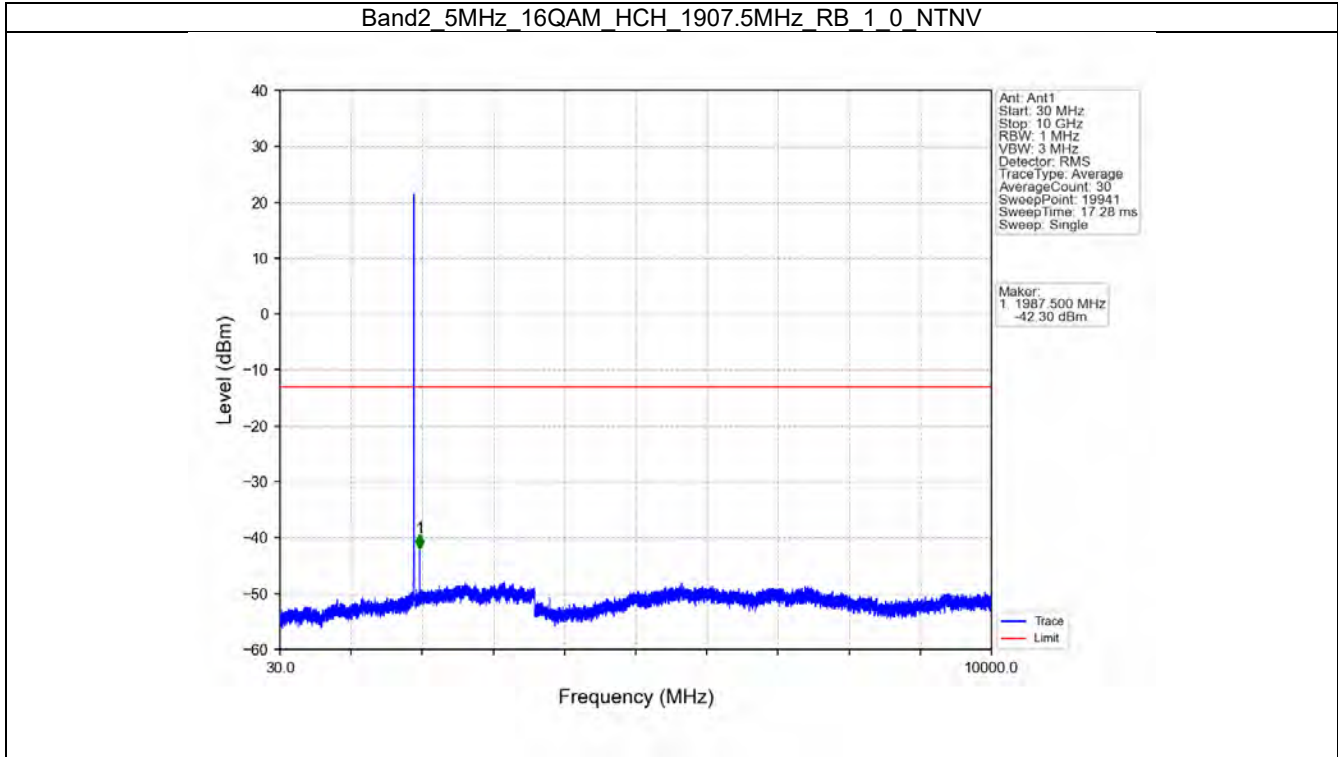
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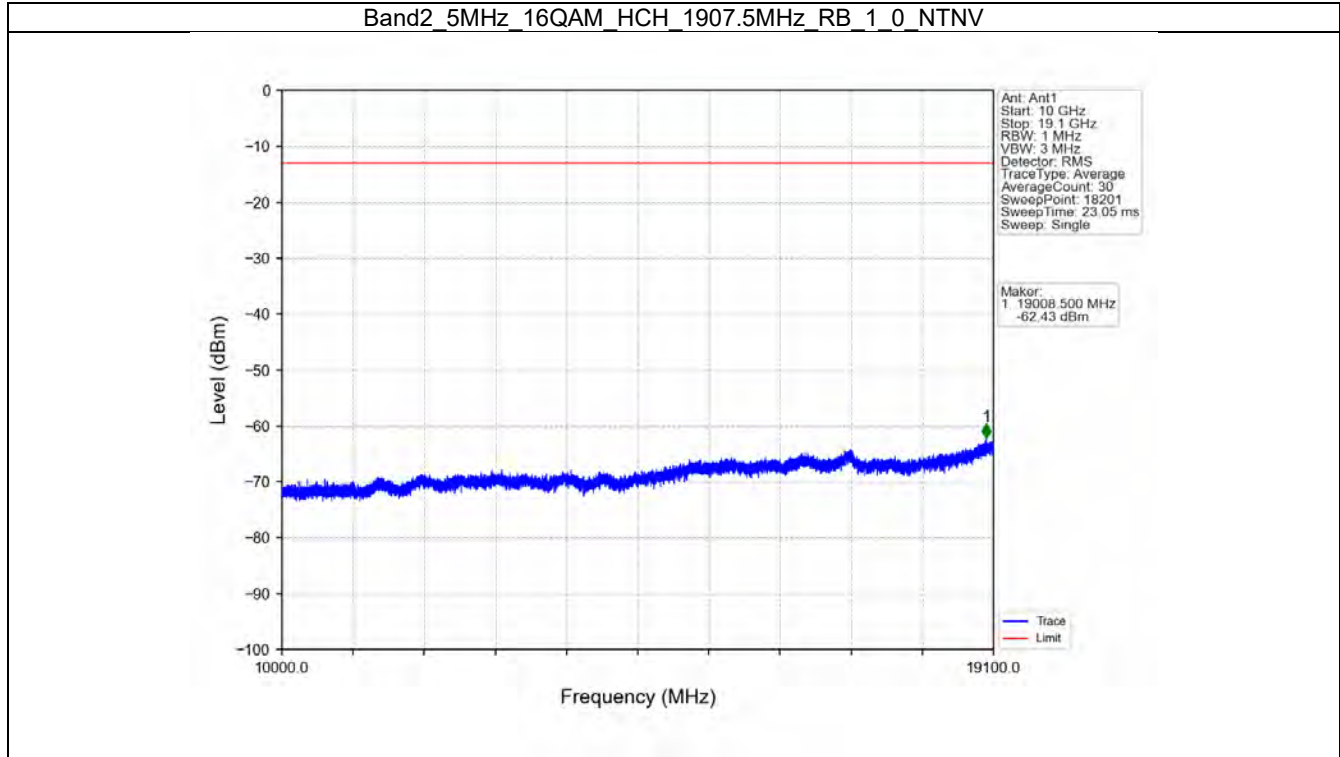
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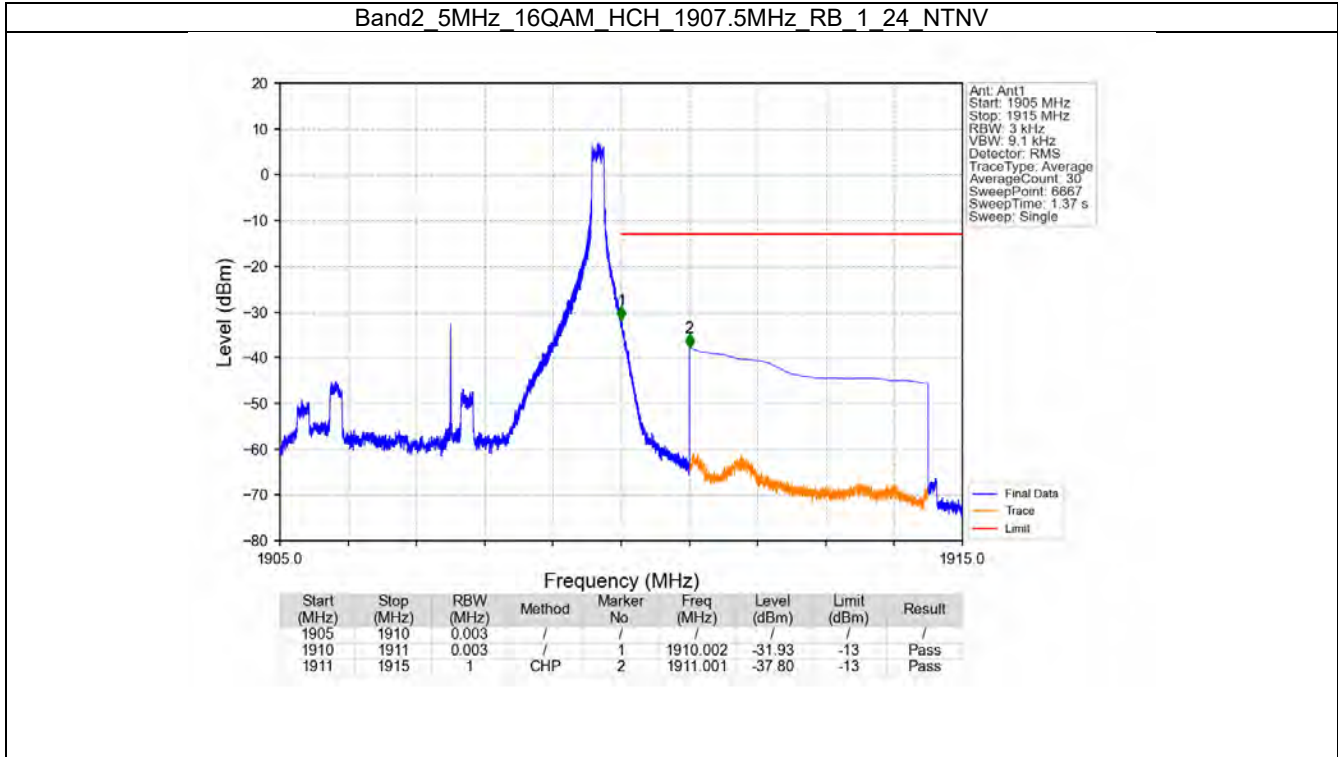
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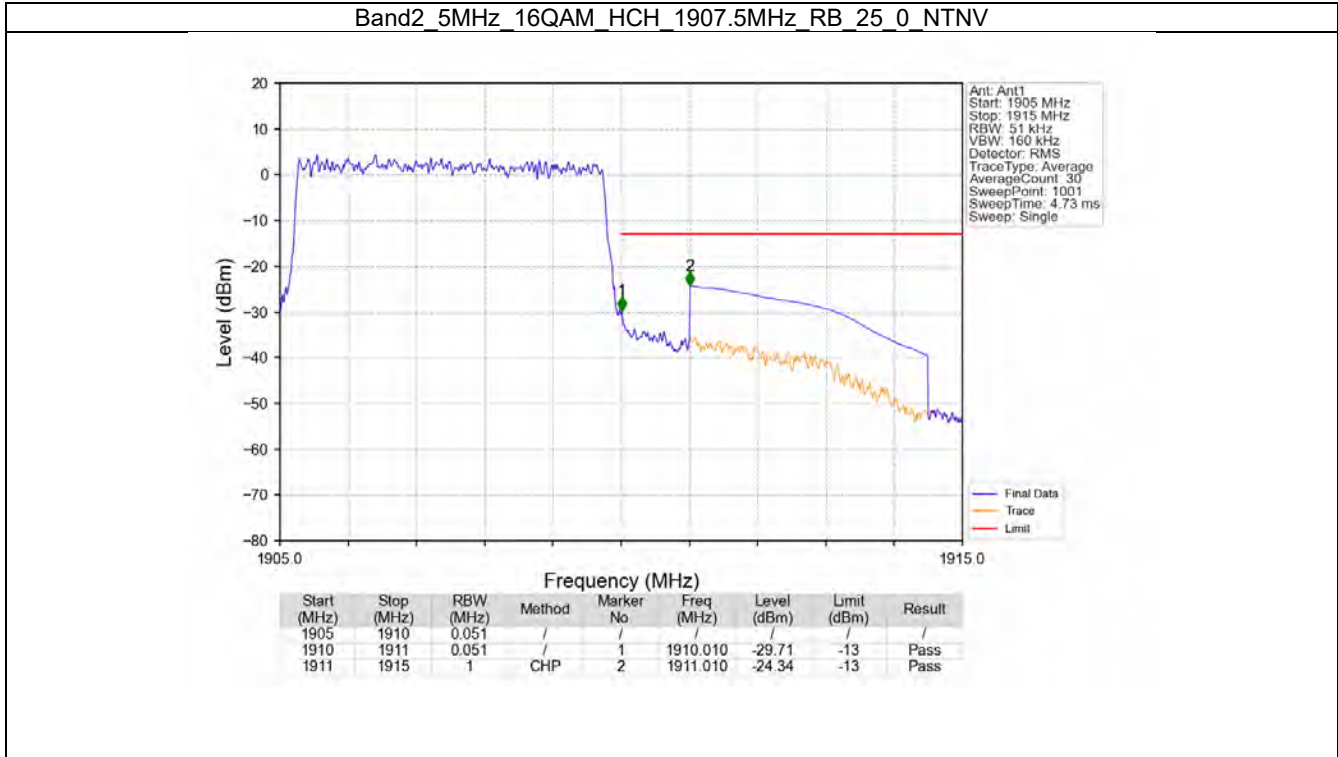
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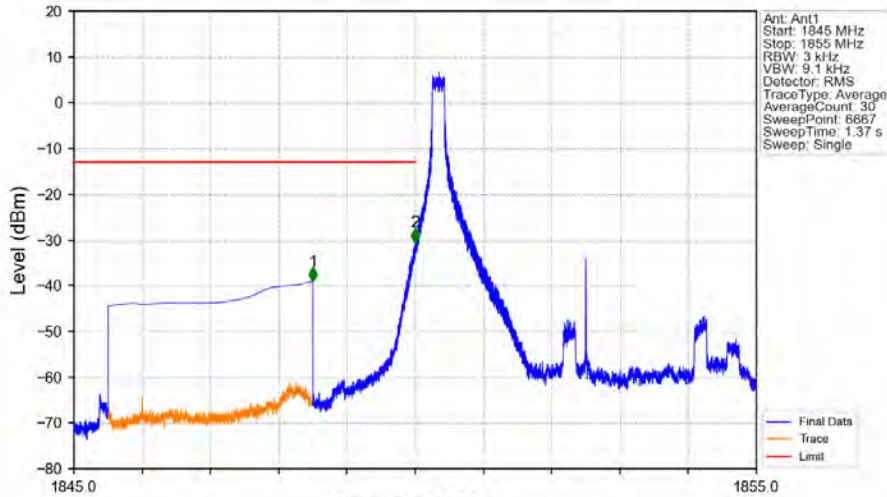
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Band2\_5MHz\_64QAM\_LCH\_1852.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	CHP	1	1848.500	-39.07	-13	Pass
1849	1850	0.003	/	2	1850.000	-30.53	-13	Pass
1850	1855	0.003	/	/	/	/	/	/



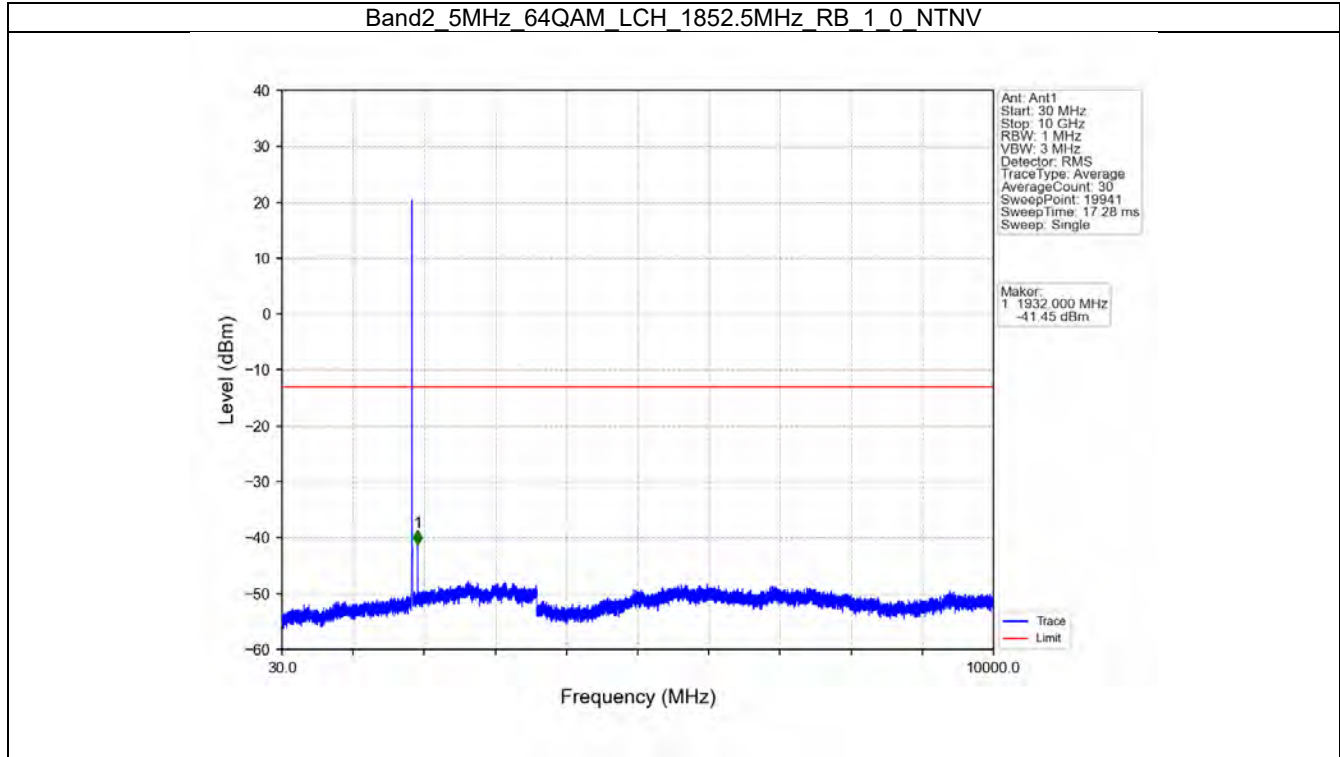
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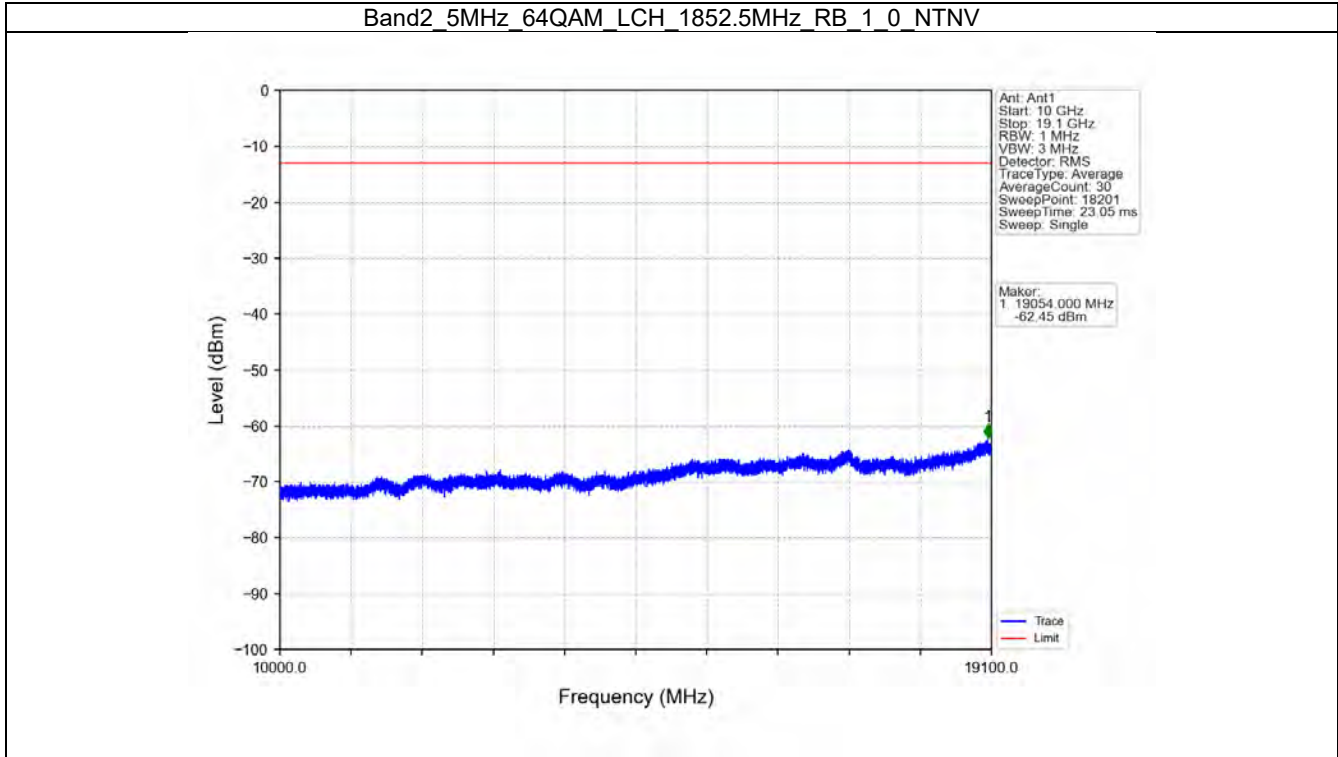
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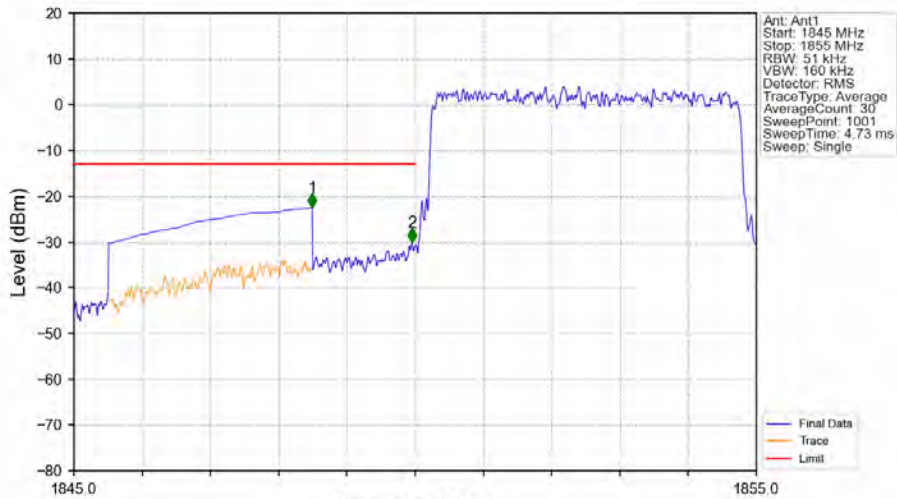
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Band2\_5MHz\_64QAM\_LCH\_1852.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	CHP	1	1848.490	-22.55	-13	Pass
1849	1850	0.051	/	2	1849.950	-30.16	-13	Pass
1850	1855	0.051	/	/	/	/	/	/



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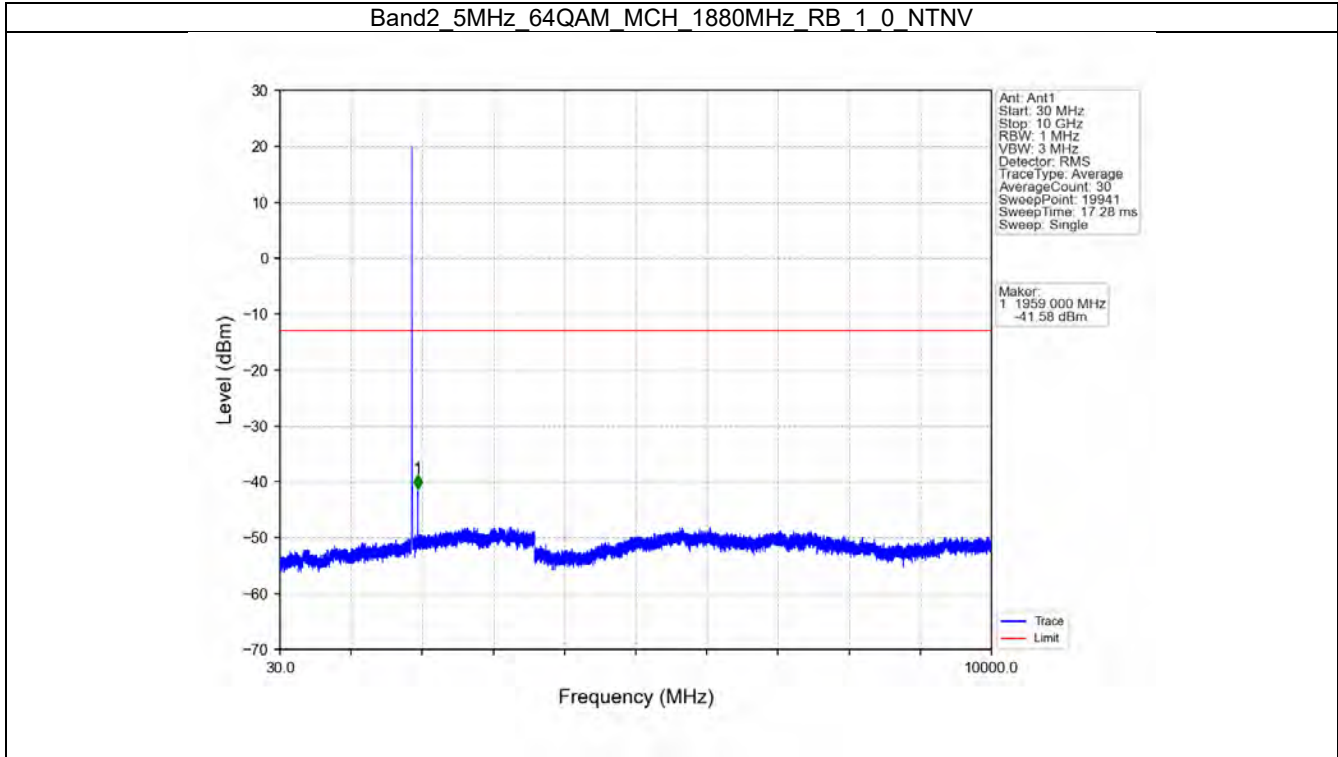
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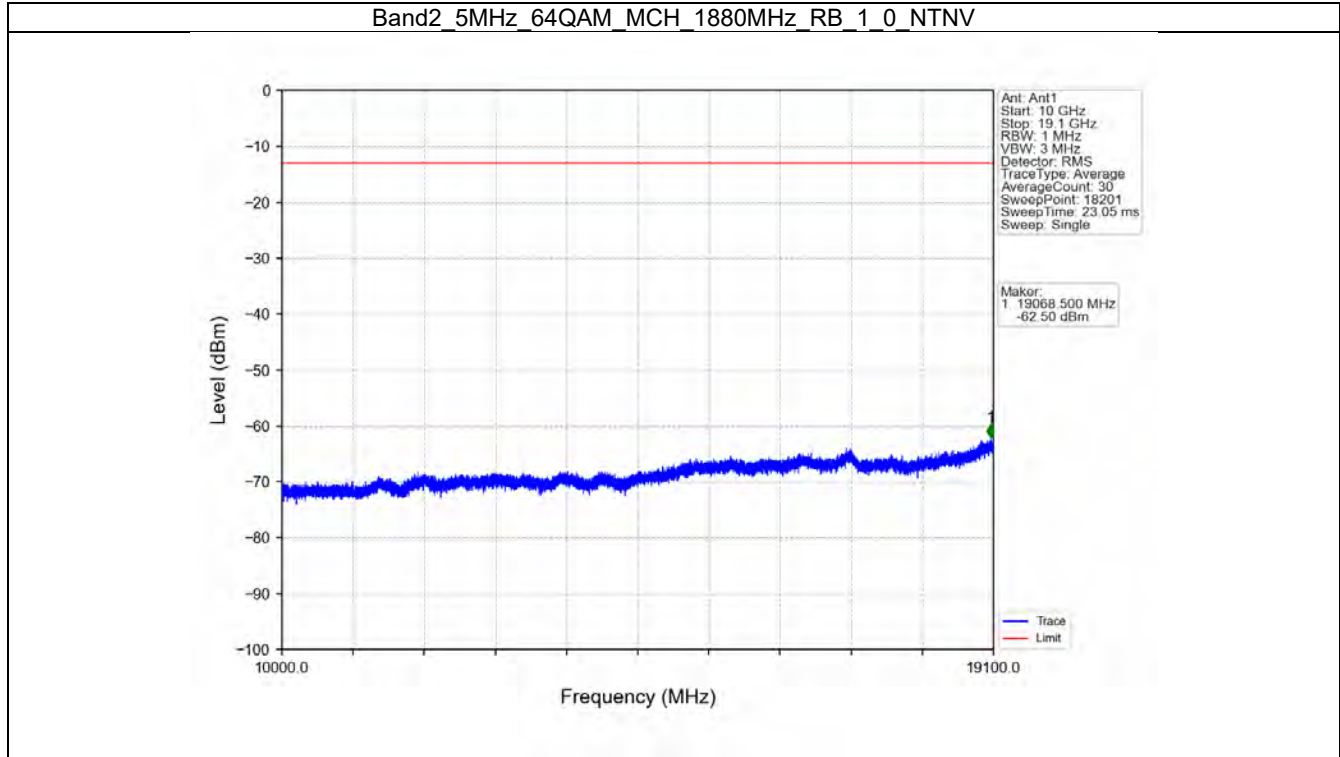
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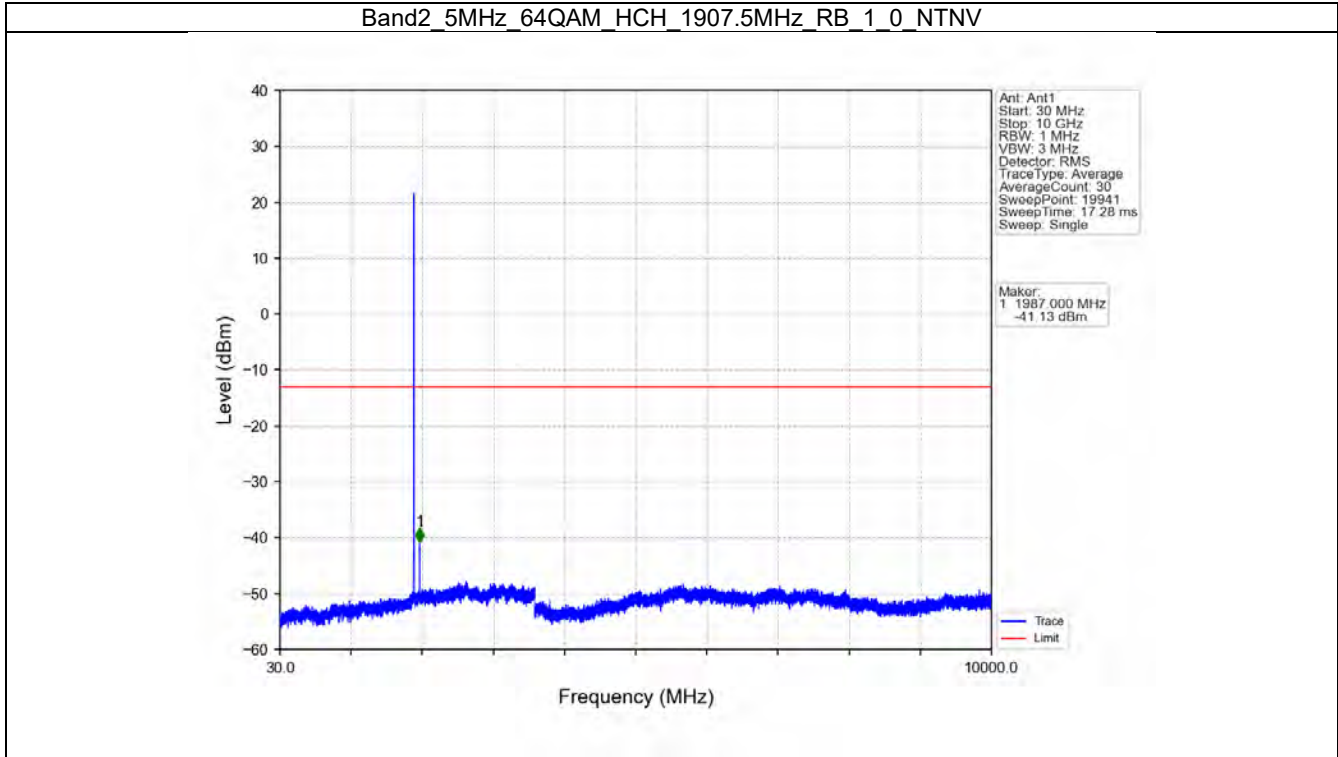
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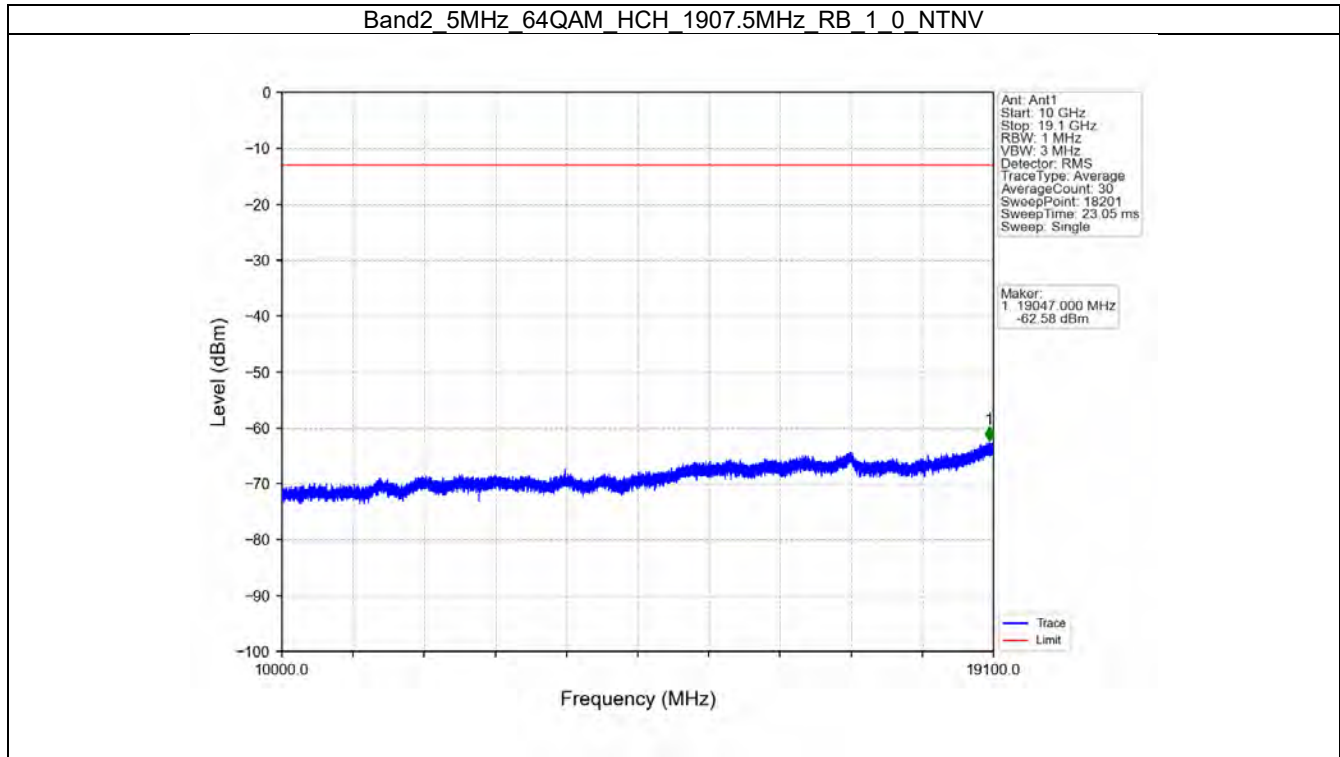


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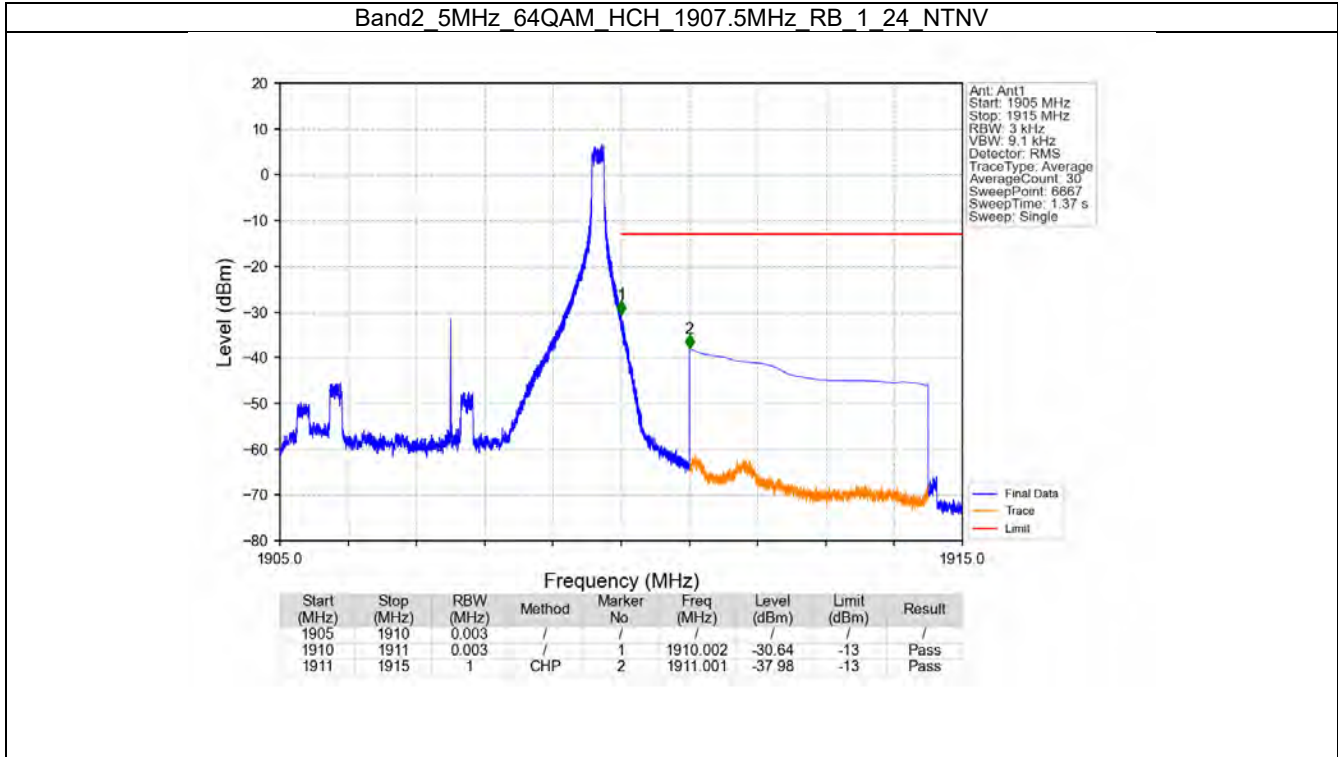
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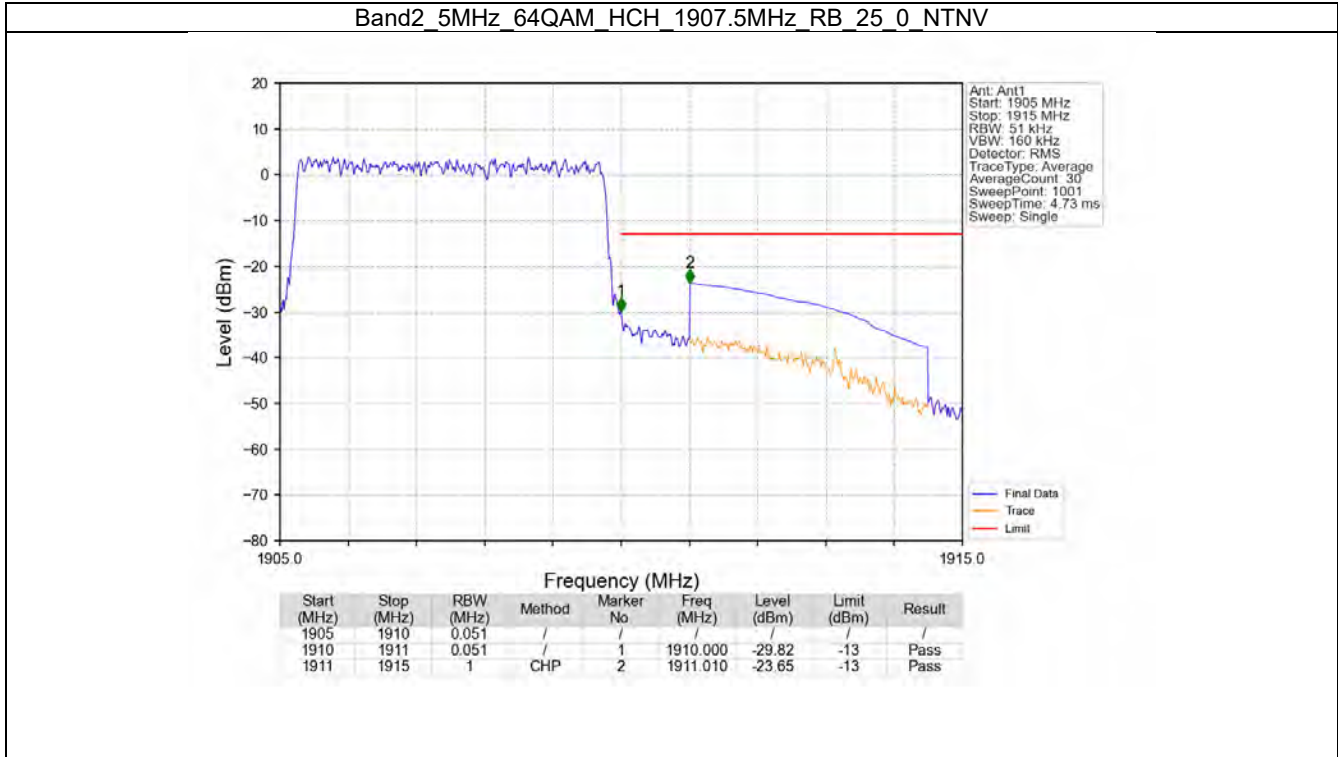
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## 5.4 B2\_10MHz

### 5.4.1 Test Result

Band: 2 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1855	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	1905	1	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
16QAM	1855	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	1905	1	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
64QAM	1855	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	1905	1	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	



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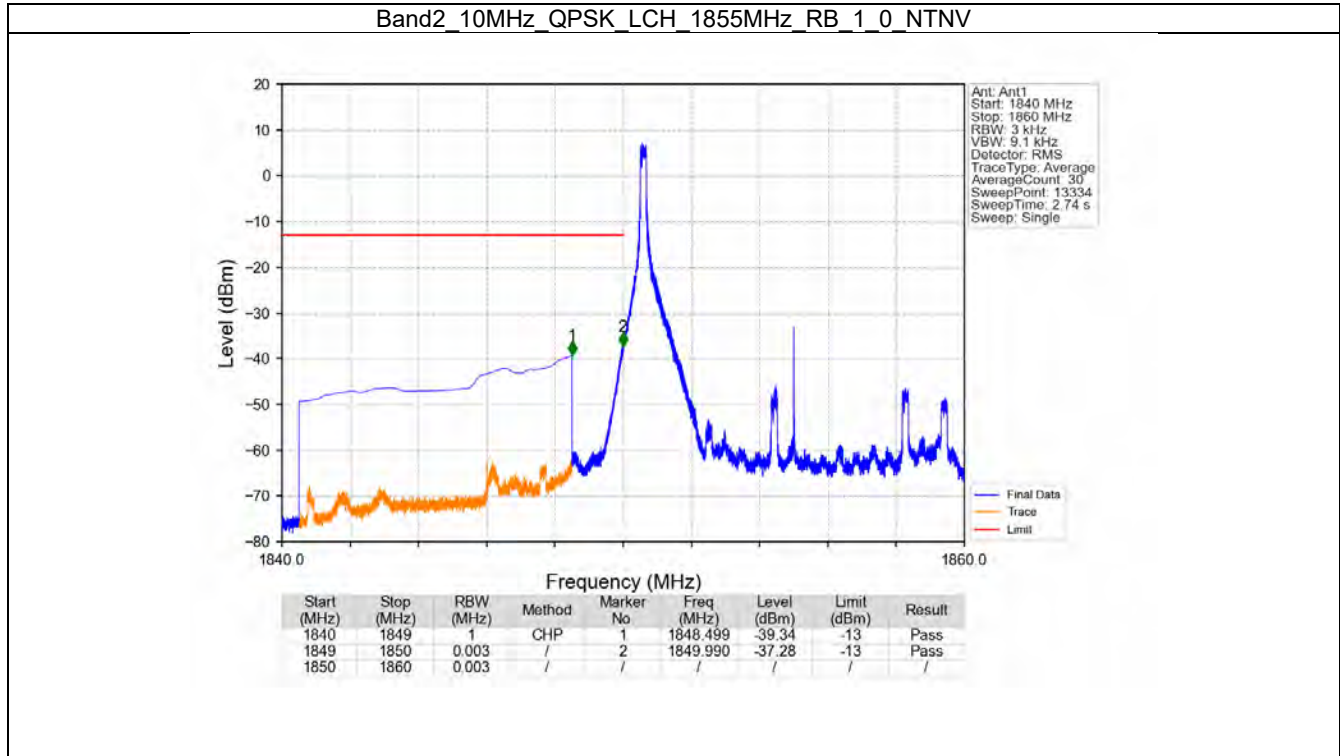
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5.4.2 Test Graph



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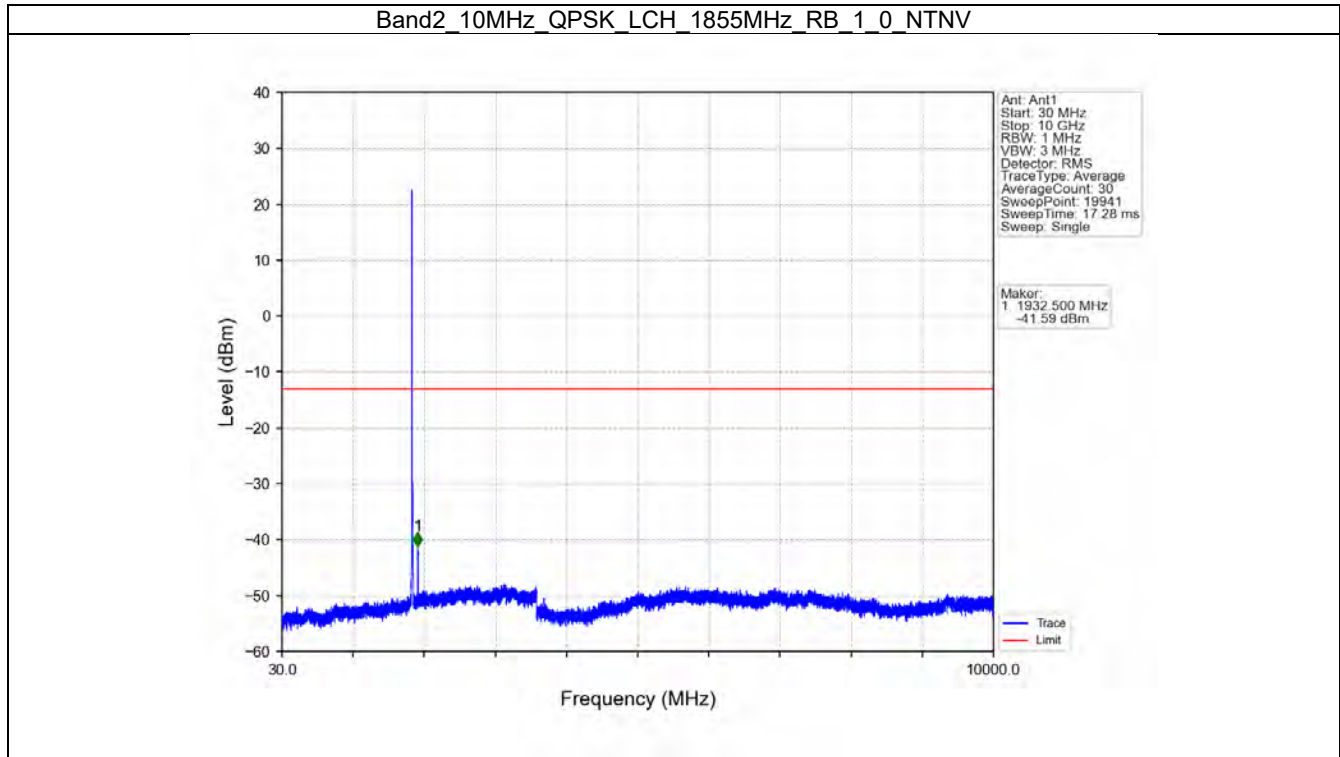


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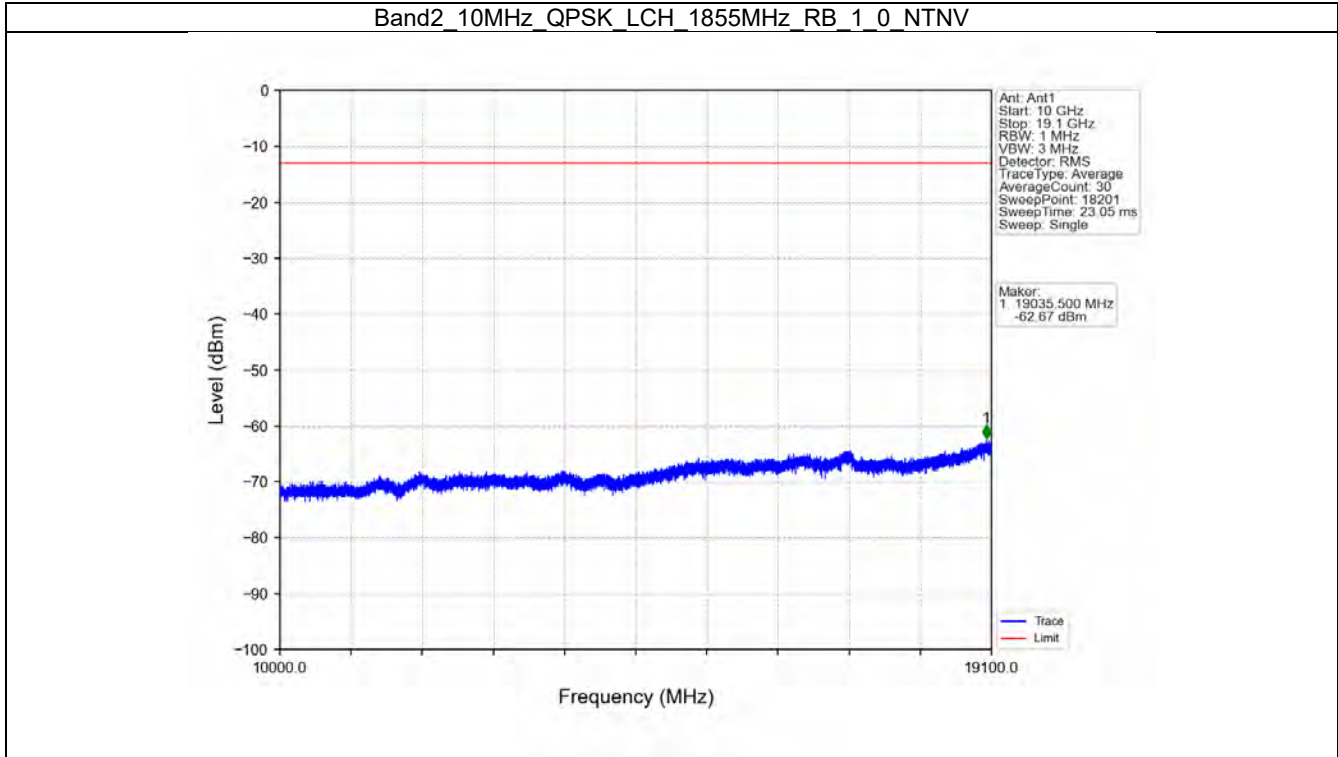
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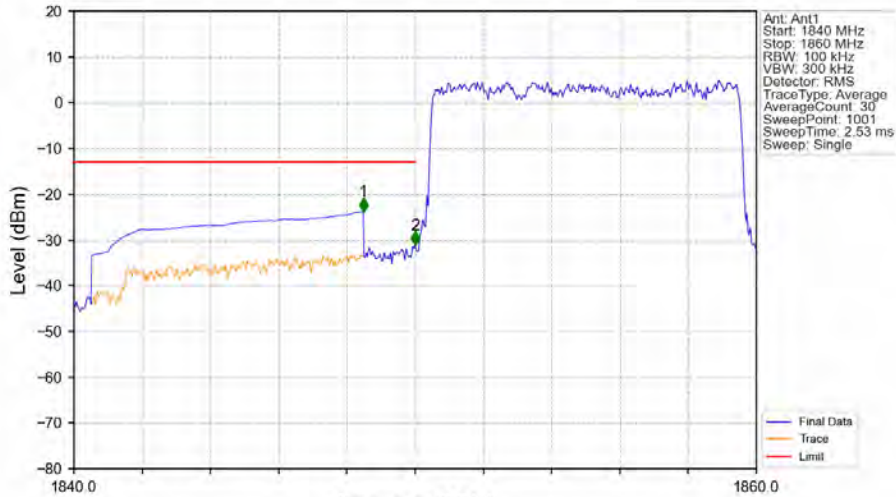
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Band2\_10MHz\_QPSK\_LCH\_1855MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1840	1849	1	CHP	1	1848.480	-23.84	-13	Pass
1849	1850	0.1	/	2	1850.000	-31.12	-13	Pass
1850	1860	0.1	/	/	/	/	/	/



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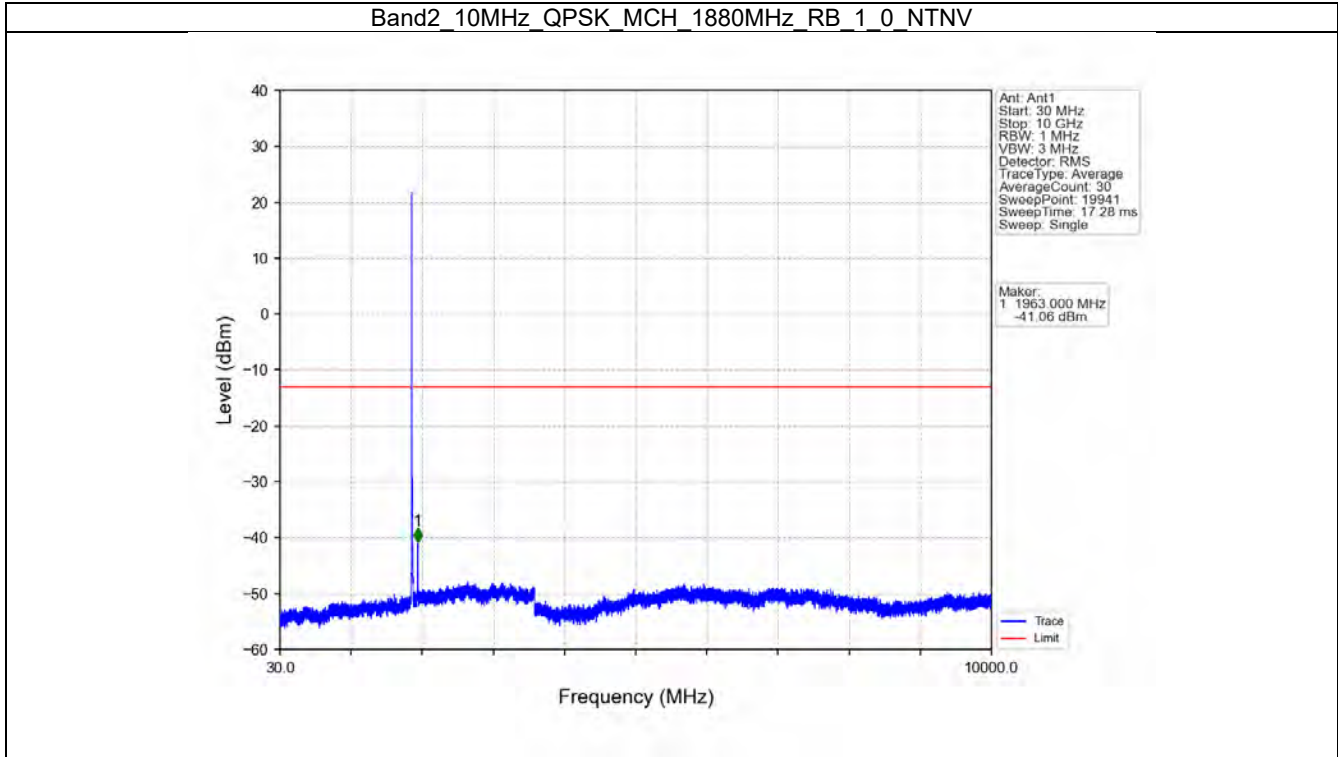
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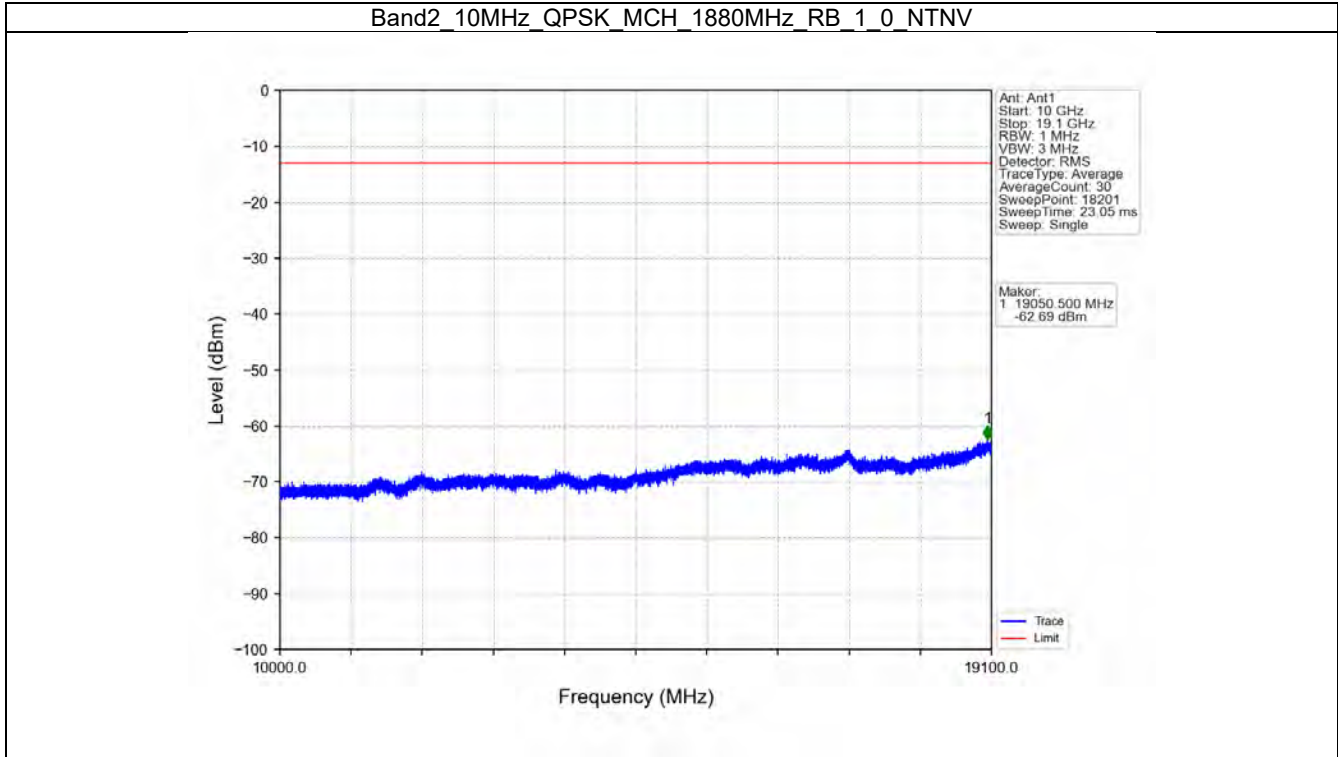
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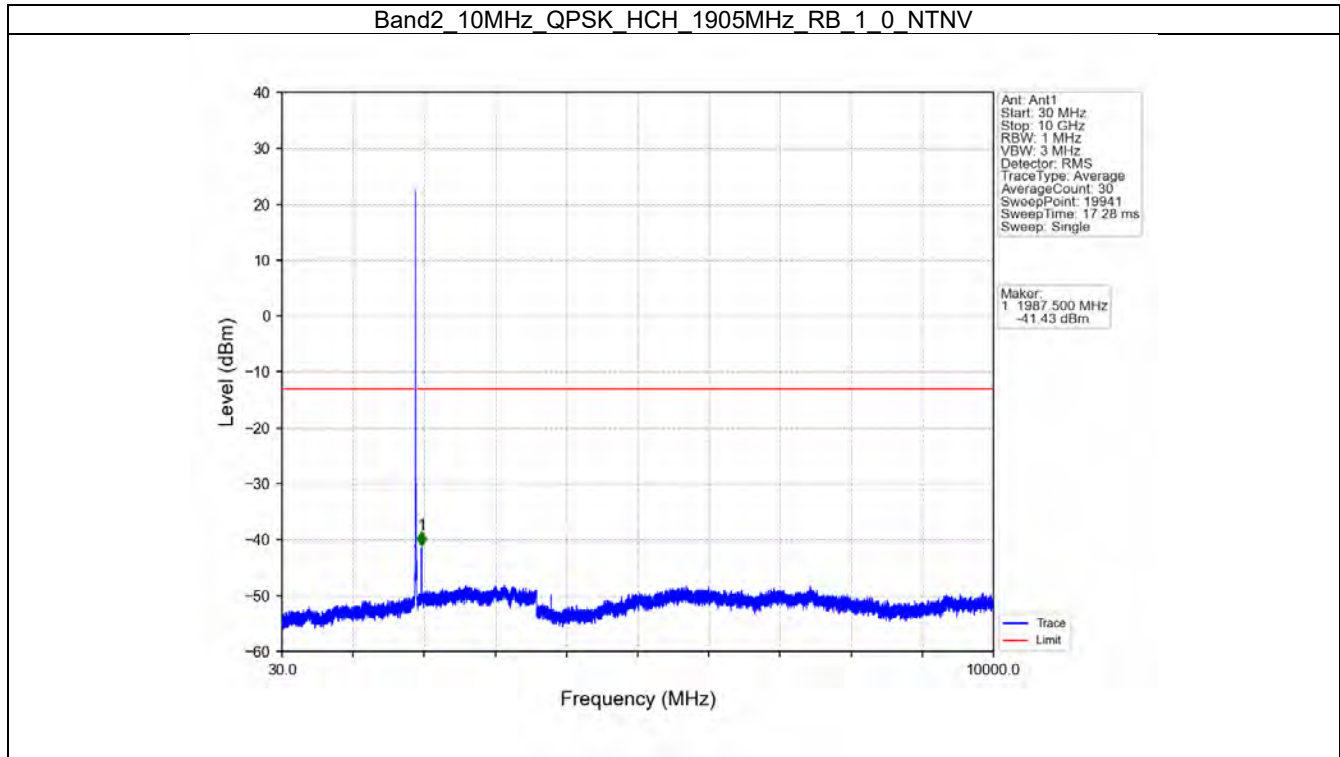


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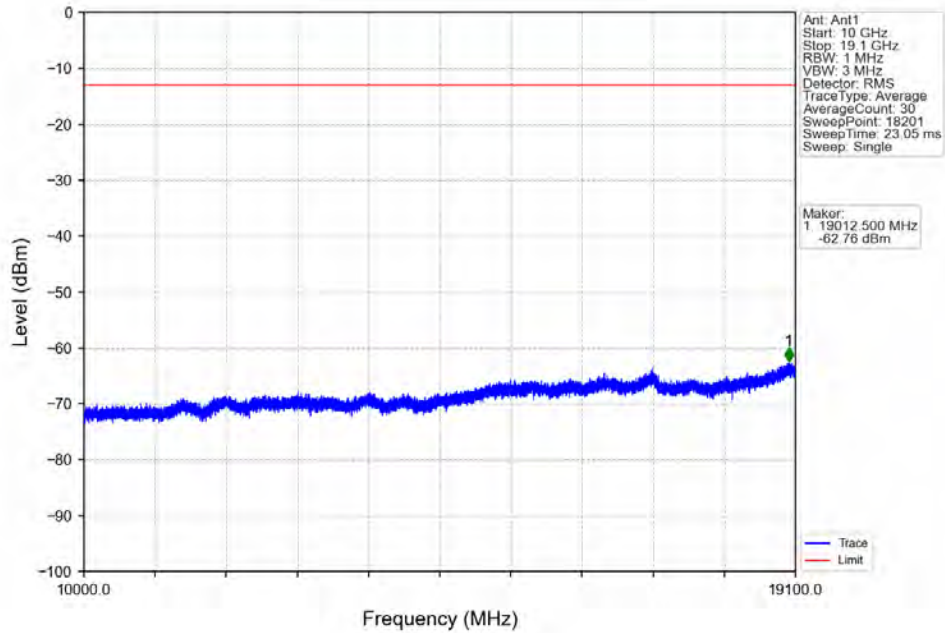
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Band2\_10MHz\_QPSK\_HCH\_1905MHz\_RB\_1\_0\_NTNV



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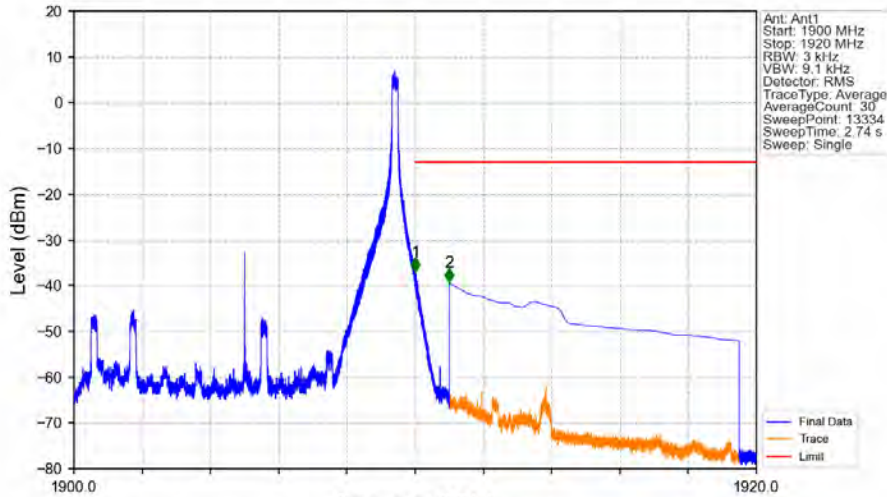
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Band2\_10MHz\_QPSK\_HCH\_1905MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1900	1910	0.003	/	1	1910.002	-36.98	-13	Pass
1910	1911	0.003	CHP	2	1911.001	-39.28	-13	Pass



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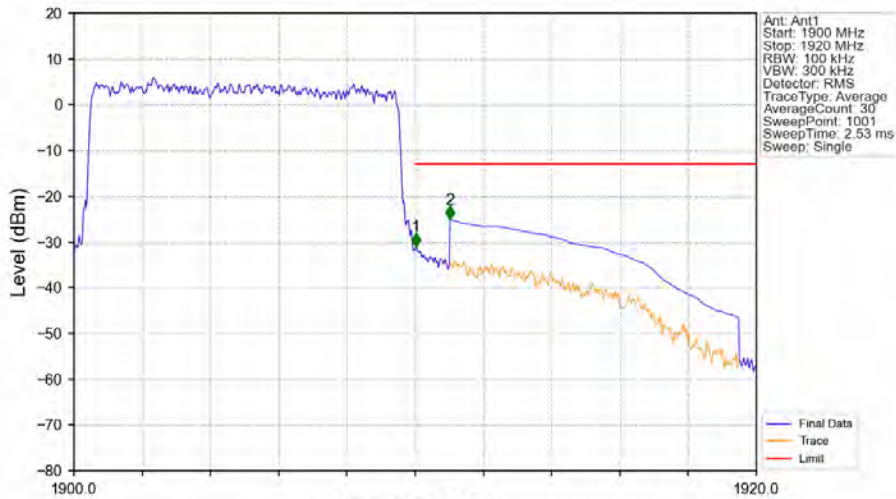
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Band2\_10MHz\_QPSK\_HCH\_1905MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1900	1910	0.1	/	1	1910.020	-31.08	-13	Pass
1910	1911	0.1	/	2	1911.020	-25.10	-13	Pass
1911	1920	1	CHP					



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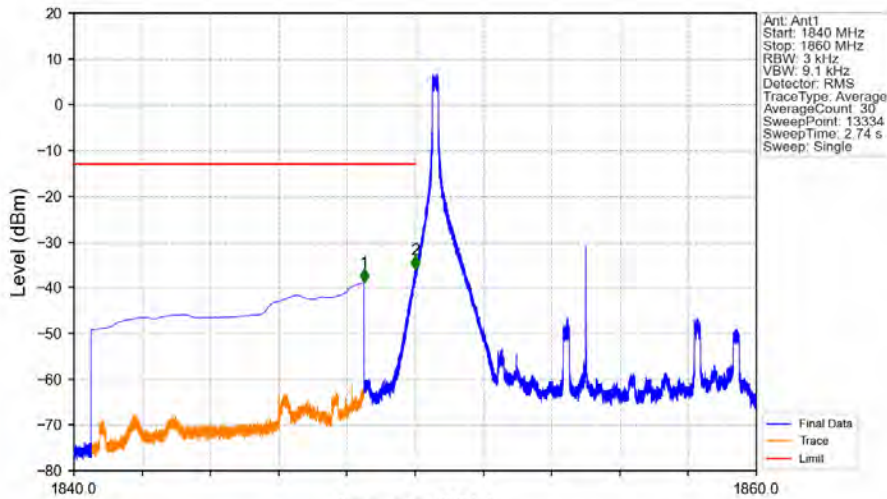




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Band2\_10MHz\_16QAM\_LCH\_1855MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1840	1849	1	CHP	1	1848.499	-38.85	-13	Pass
1849	1850	0.003	/	2	1849.999	-36.04	-13	Pass
1850	1860	0.003	/	/	/	/	/	/



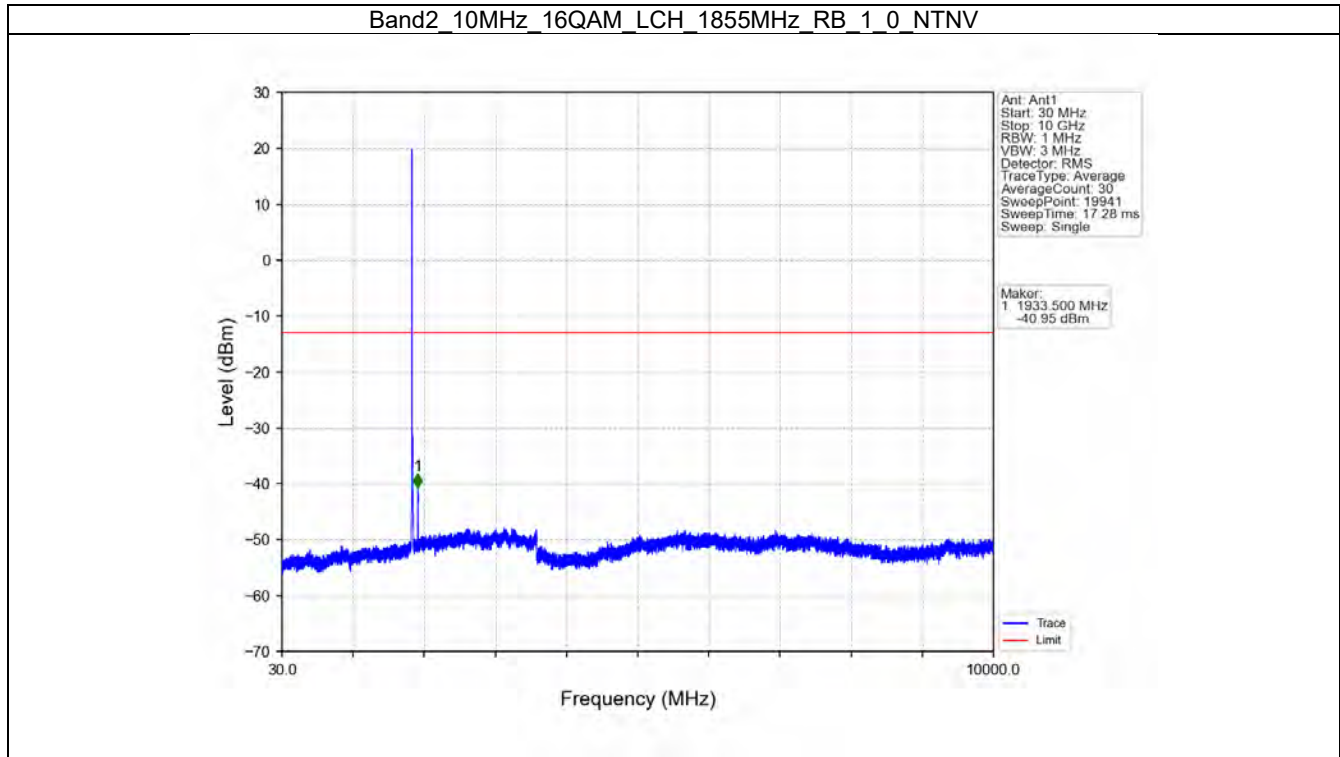
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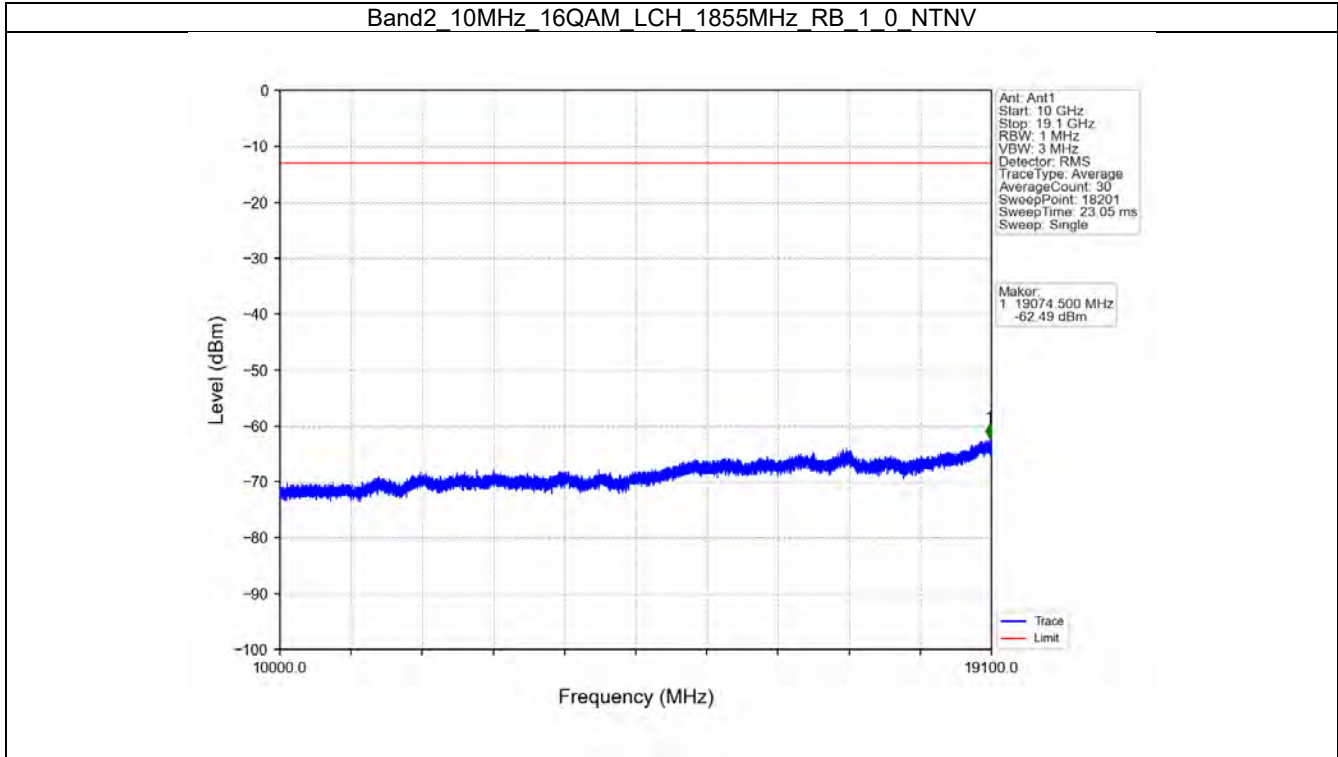
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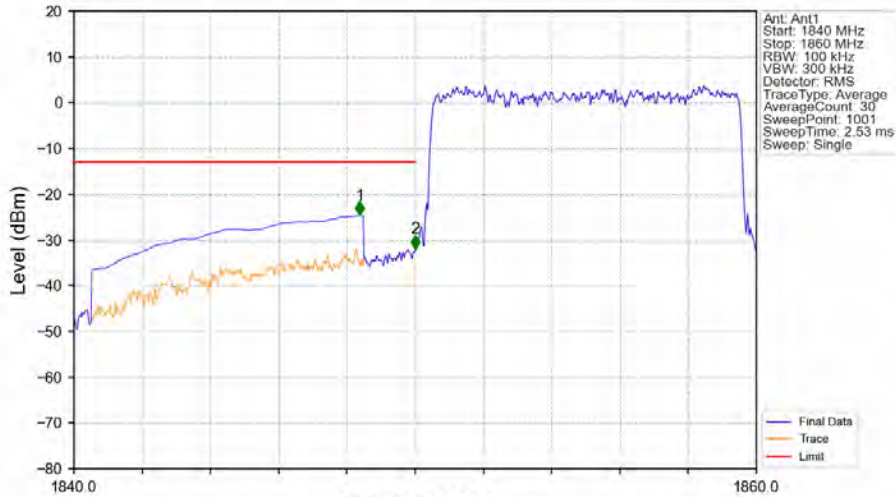
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Band2\_10MHz\_16QAM\_LCH\_1855MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1840	1849	1	CHP	1	1848.380	-24.68	-13	Pass
1849	1850	0.1	/	2	1850.000	-31.97	-13	Pass
1850	1860	0.1	/	/	/	/	/	/



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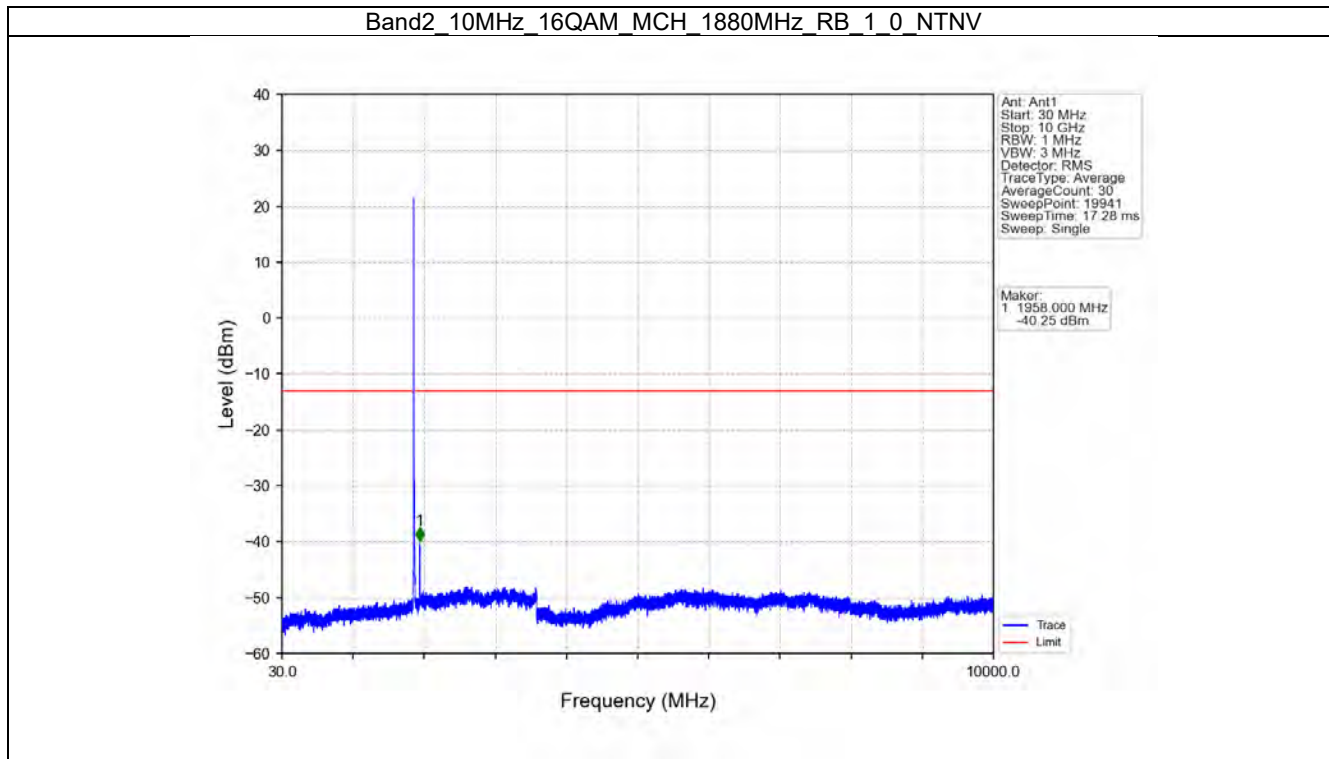


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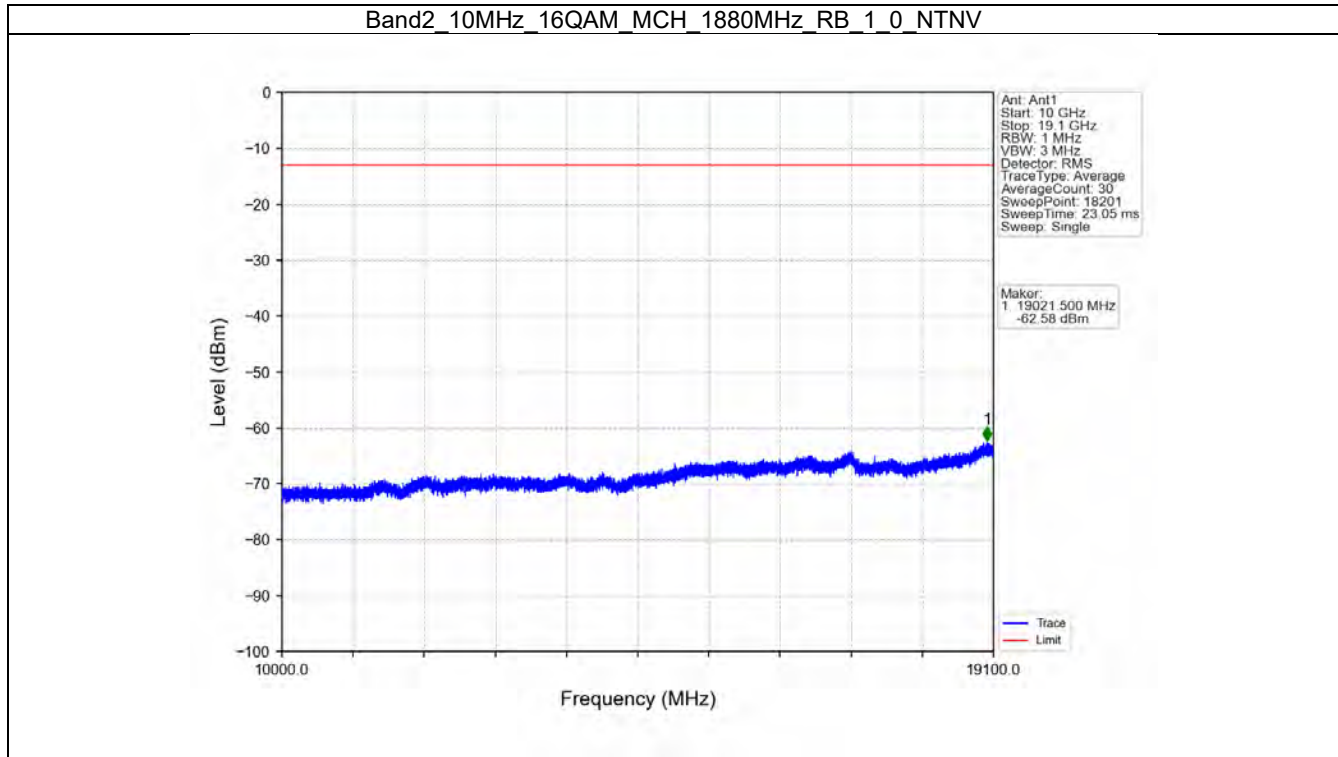


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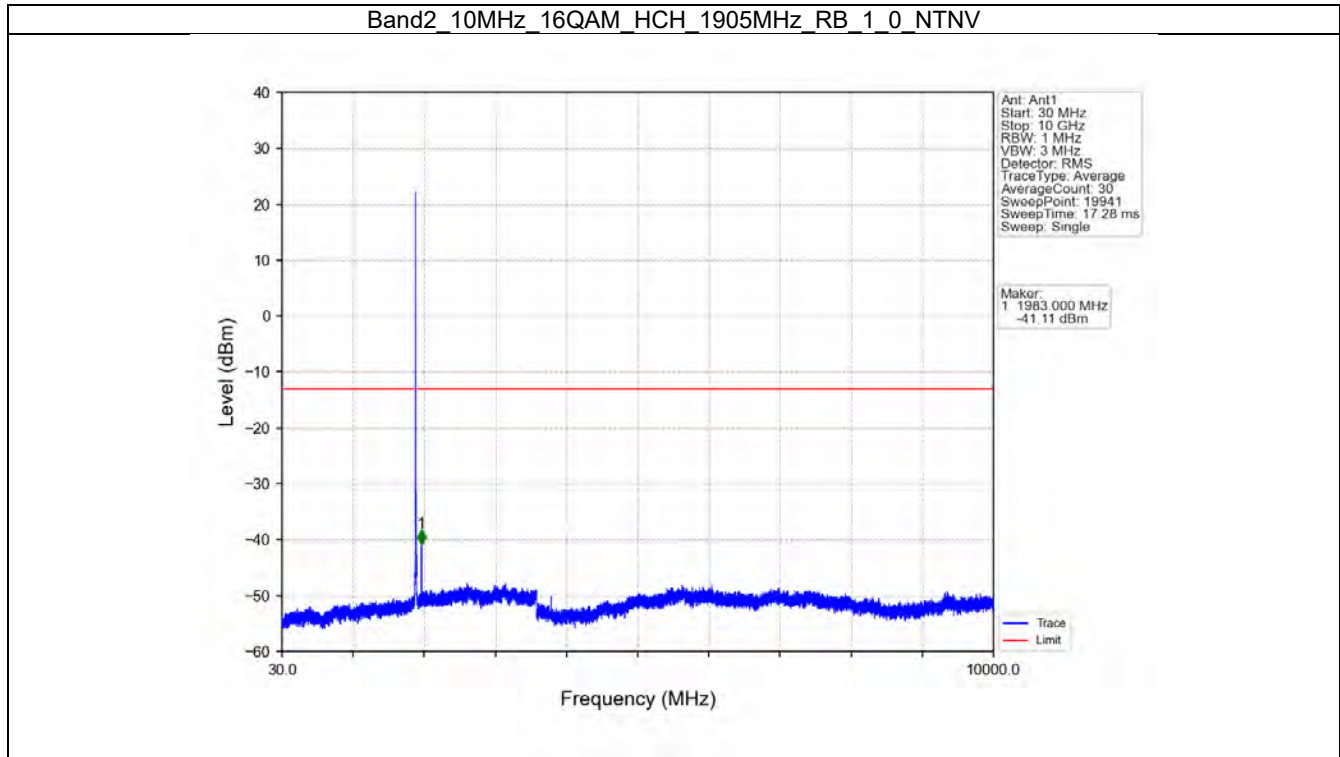


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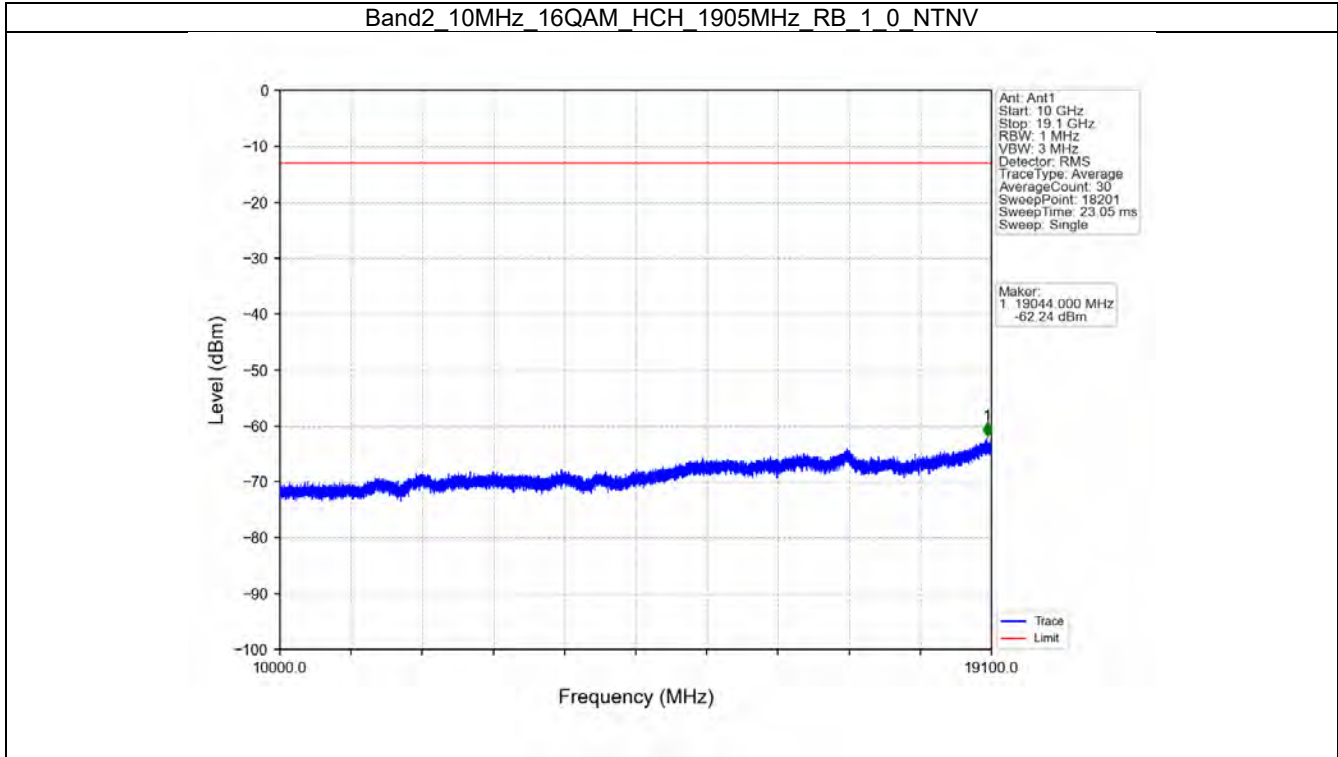
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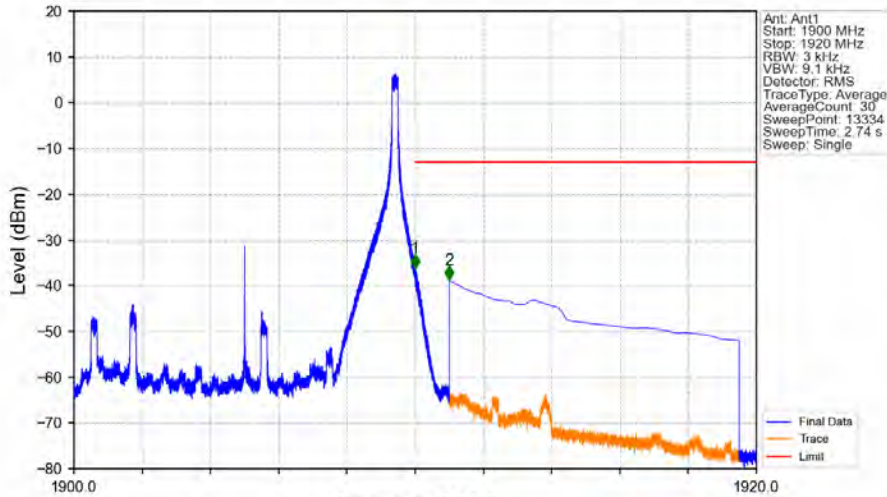




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Band2\_10MHz\_16QAM\_HCH\_1905MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1900	1910	0.003	/	1	1910.001	-36.17	-13	Pass
1910	1911	0.003	CHP	2	1911.001	-38.70	-13	Pass



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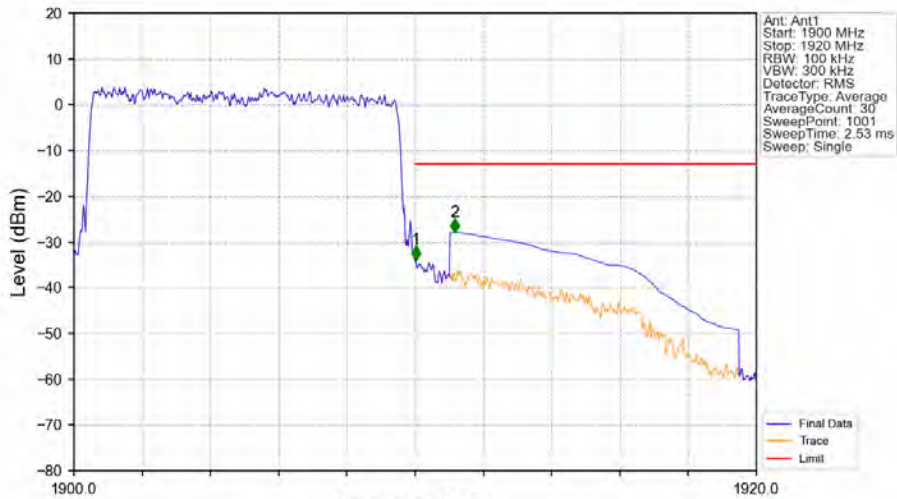
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Band2\_10MHz\_16QAM\_HCH\_1905MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1900	1910	0.1	/	1	1910.020	-33.88	-13	Pass
1910	1911	0.1	/	1	1910.020	-33.88	-13	Pass
1911	1920	1	CHP	2	1911.160	-27.90	-13	Pass



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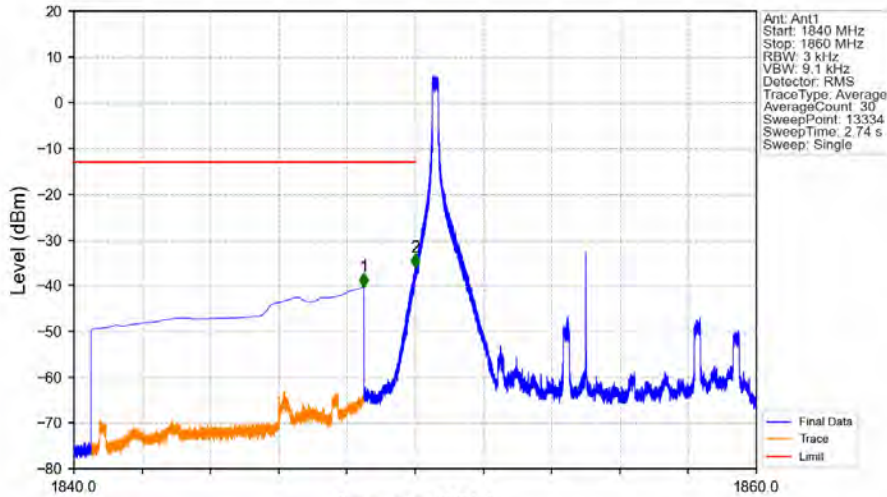
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Band2\_10MHz\_64QAM\_LCH\_1855MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1840	1849	1	CHP	1	1848.498	-40.23	-13	Pass
1849	1850	0.003	/	2	1849.999	-36.00	-13	Pass
1850	1860	0.003	/	/	/	/	/	/



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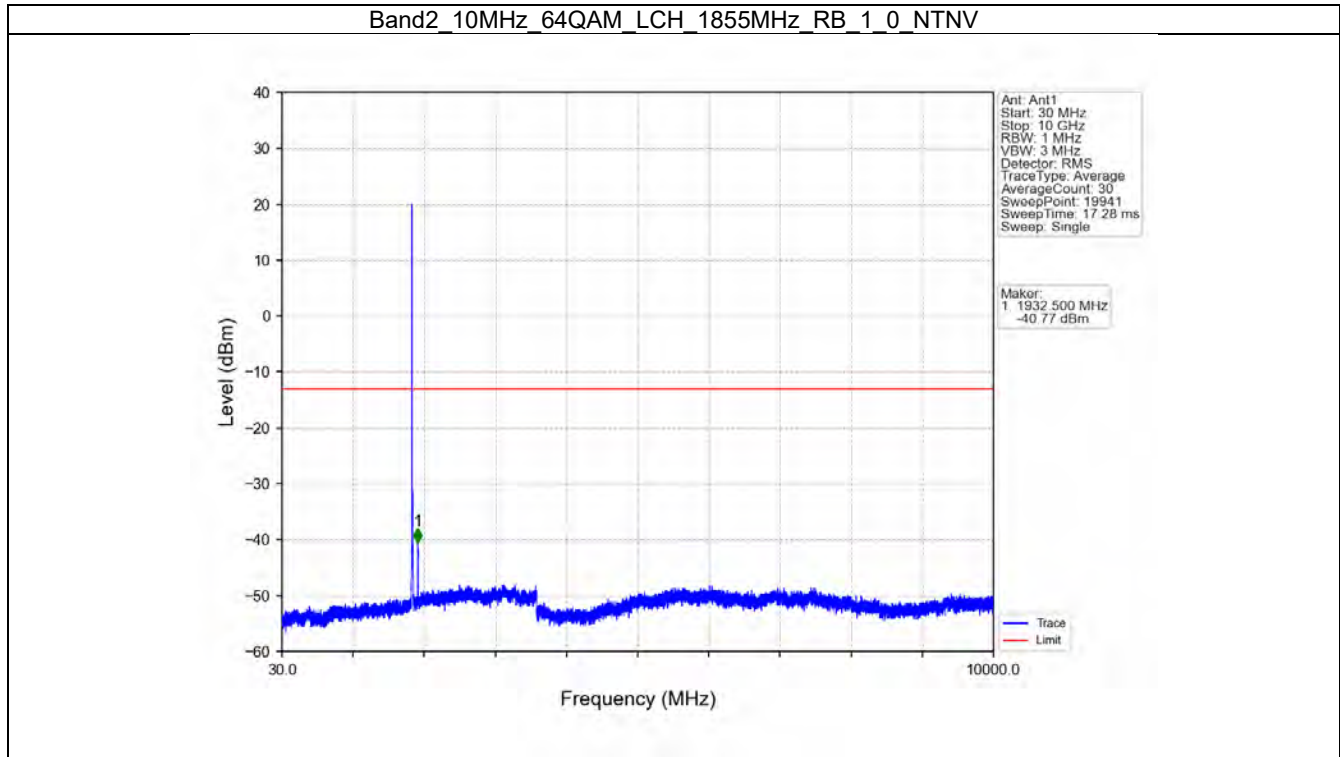


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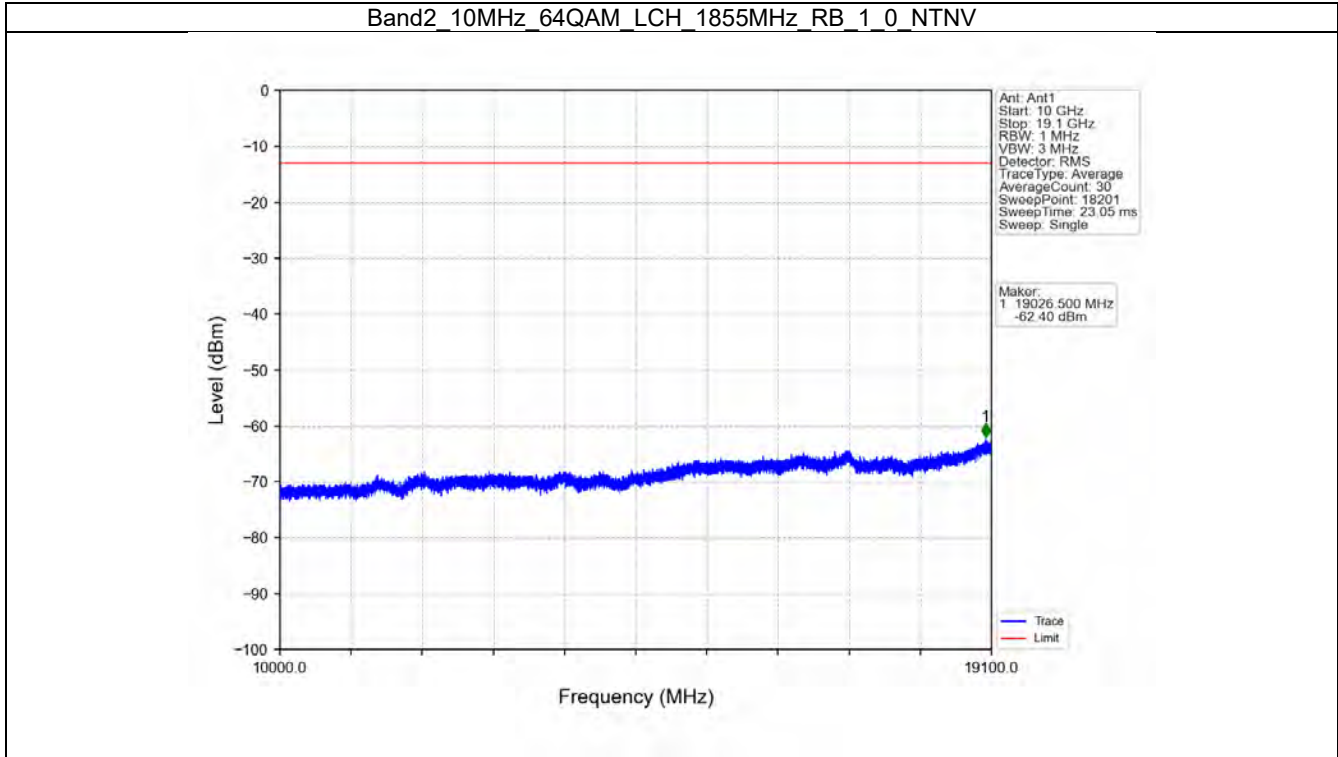
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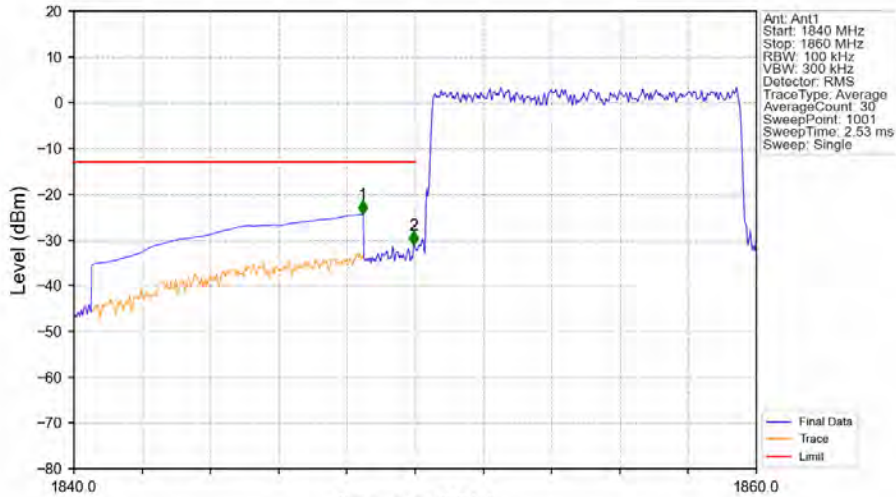
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Band2\_10MHz\_64QAM\_LCH\_1855MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1840	1849	1	CHP	1	1848.460	-24.45	-13	Pass
1849	1850	0.1	/	2	1849.960	-31.13	-13	Pass
1850	1860	0.1	/	/	/	/	/	/



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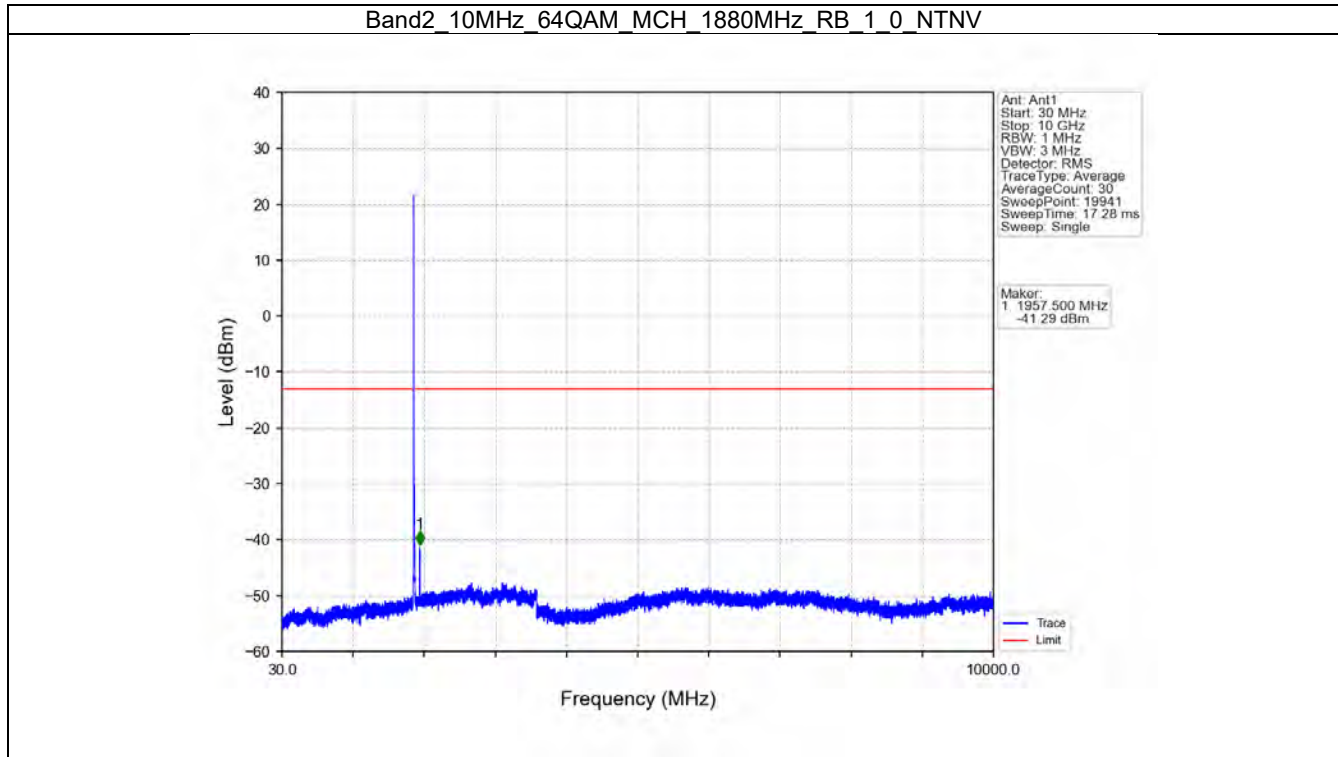


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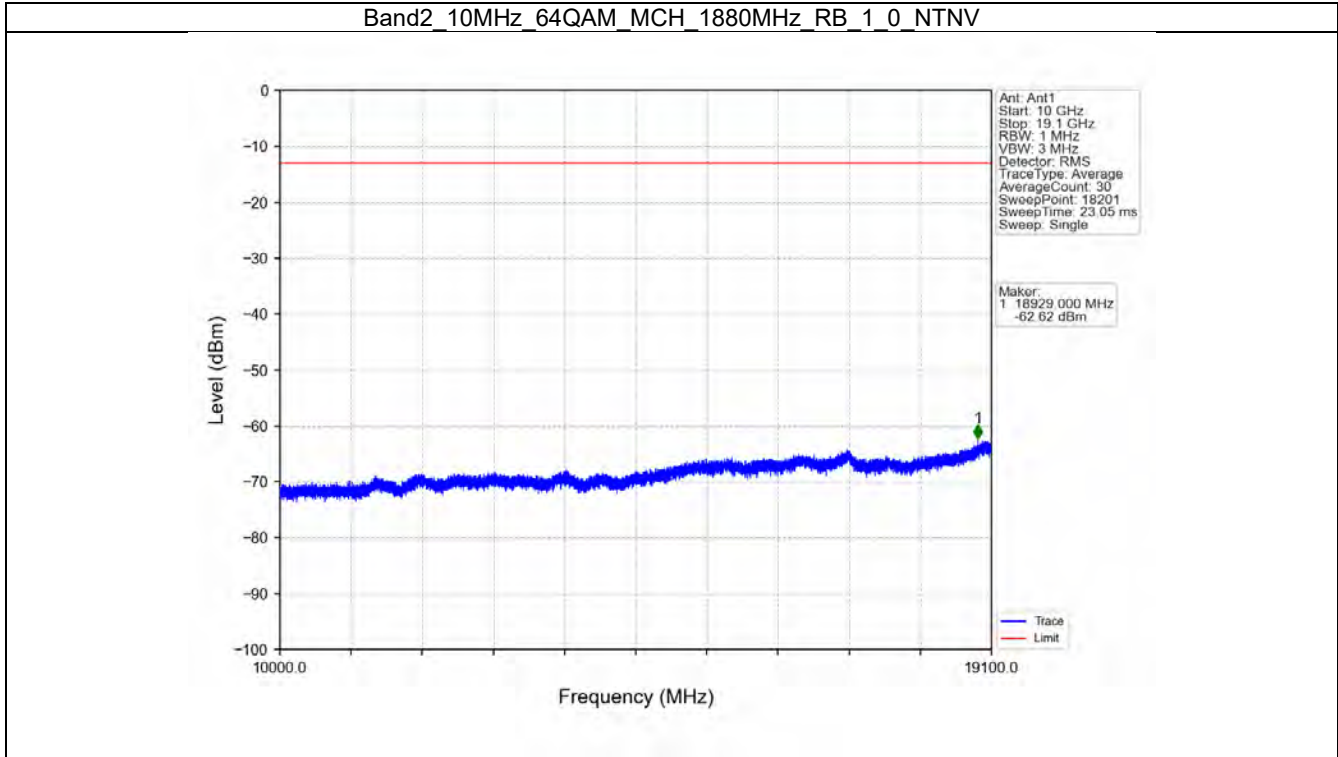
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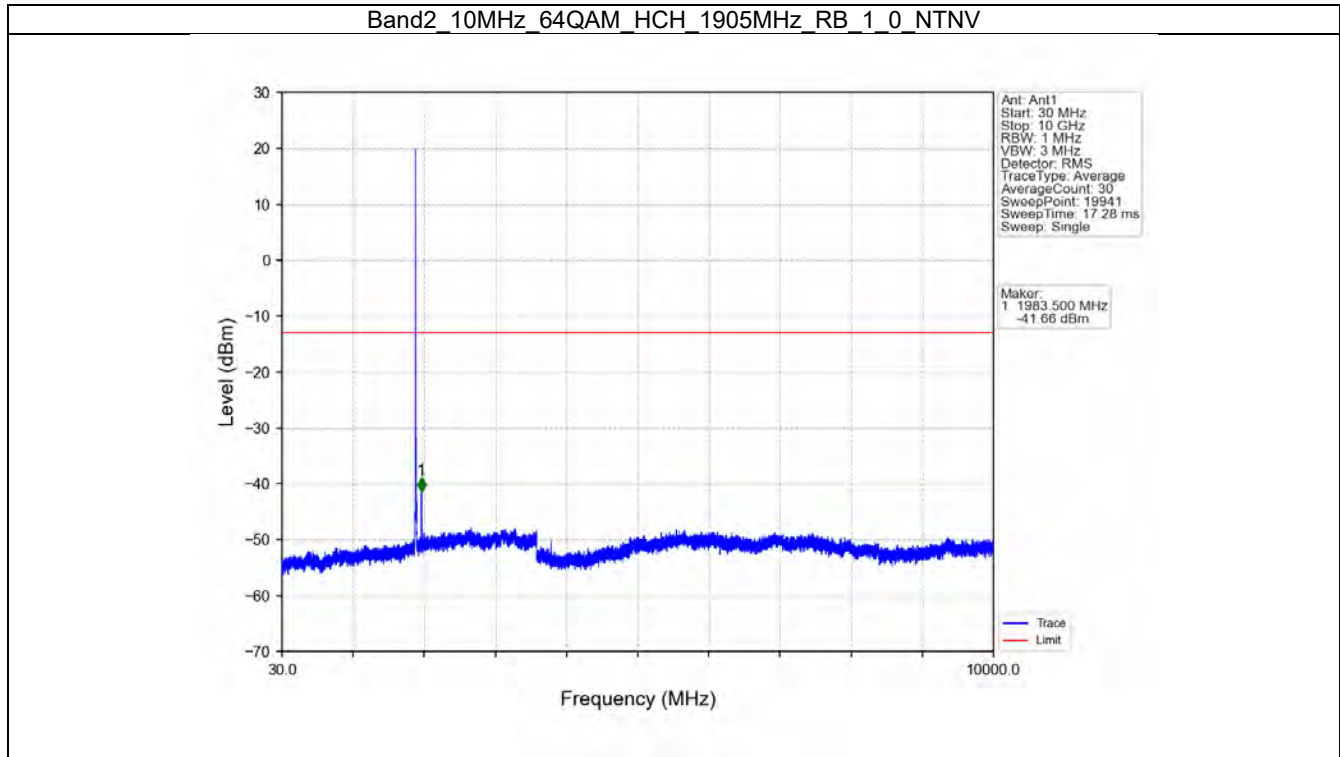


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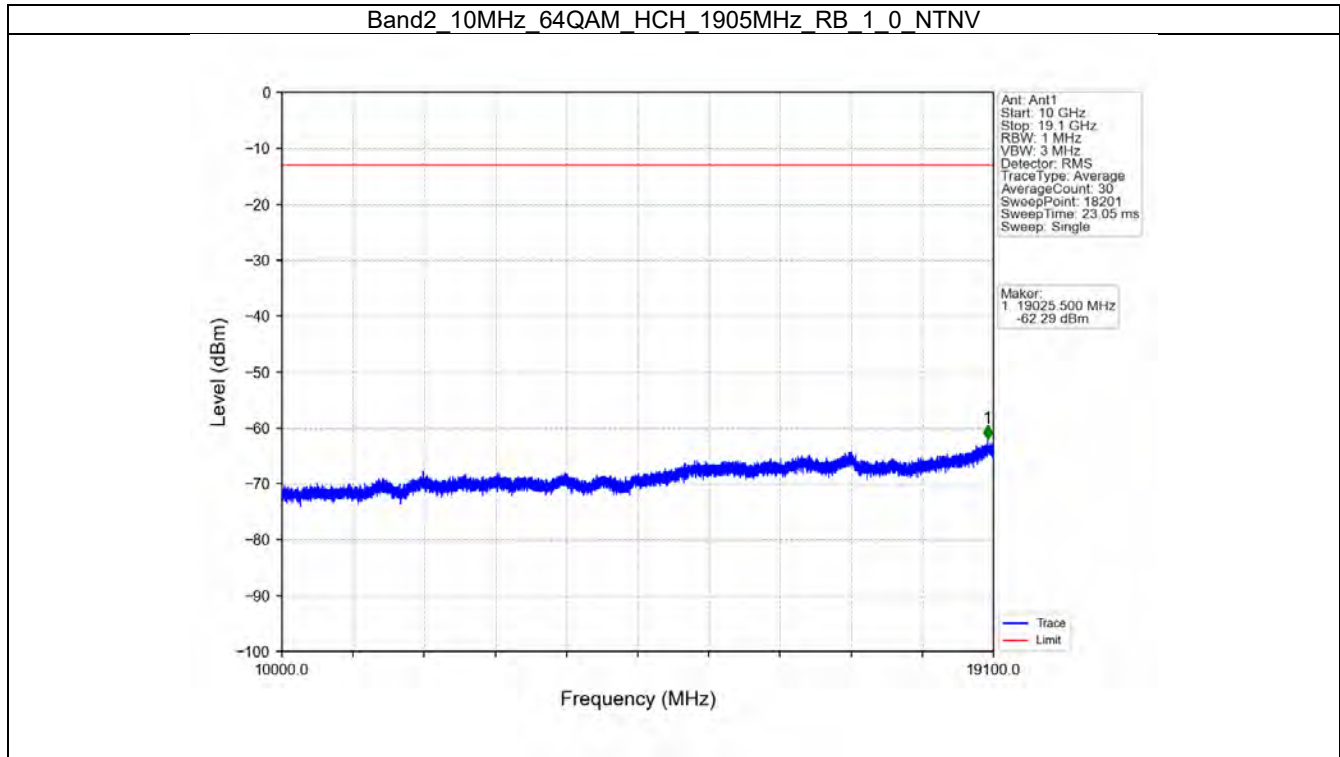


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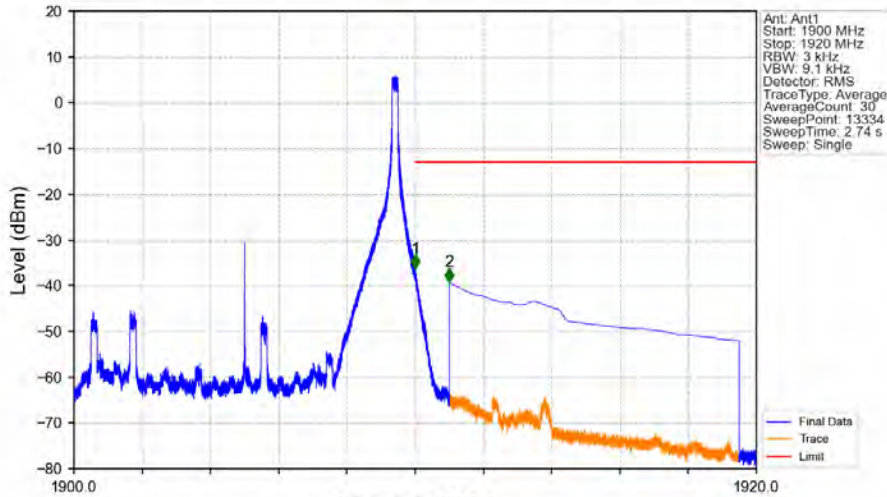
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Band2\_10MHz\_64QAM\_HCH\_1905MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1900	1910	0.003	/	1	1910.002	-36.26	-13	Pass
1910	1911	0.003	CHP	2	1911.001	-39.17	-13	Pass



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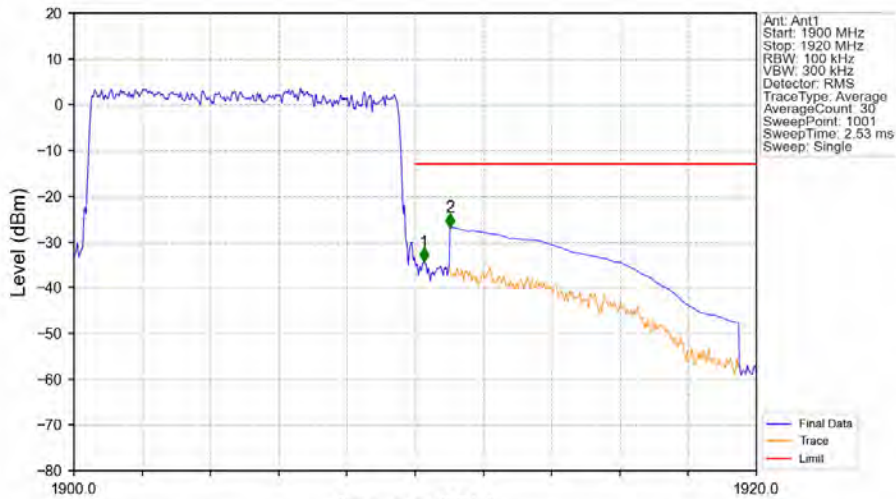
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Band2\_10MHz\_64QAM\_HCH\_1905MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1900	1910	0.1	/	1	1910.260	-34.37	-13	Pass
1910	1911	0.1	/	2	1911.020	-26.83	-13	Pass
1911	1920	1	CHP					



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## 5.5 B2\_15MHz

### 5.5.1 Test Result

Band: 2 / Bandwidth: 15MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1857.5	1	0	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
	1880	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	1902.5	1	74	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
16QAM	1857.5	1	0	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
	1880	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	1902.5	1	74	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
64QAM	1857.5	1	0	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
	1880	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	1902.5	1	74	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	



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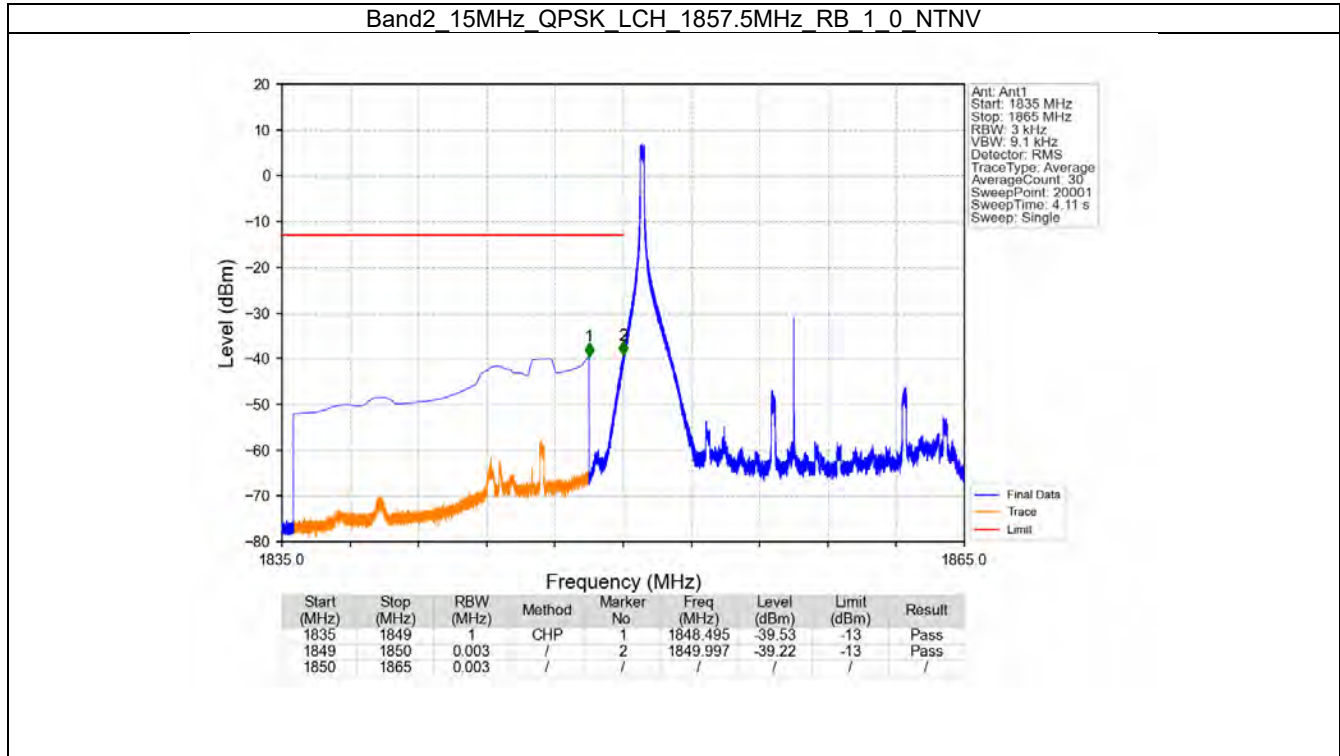
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5.5.2 Test Graph



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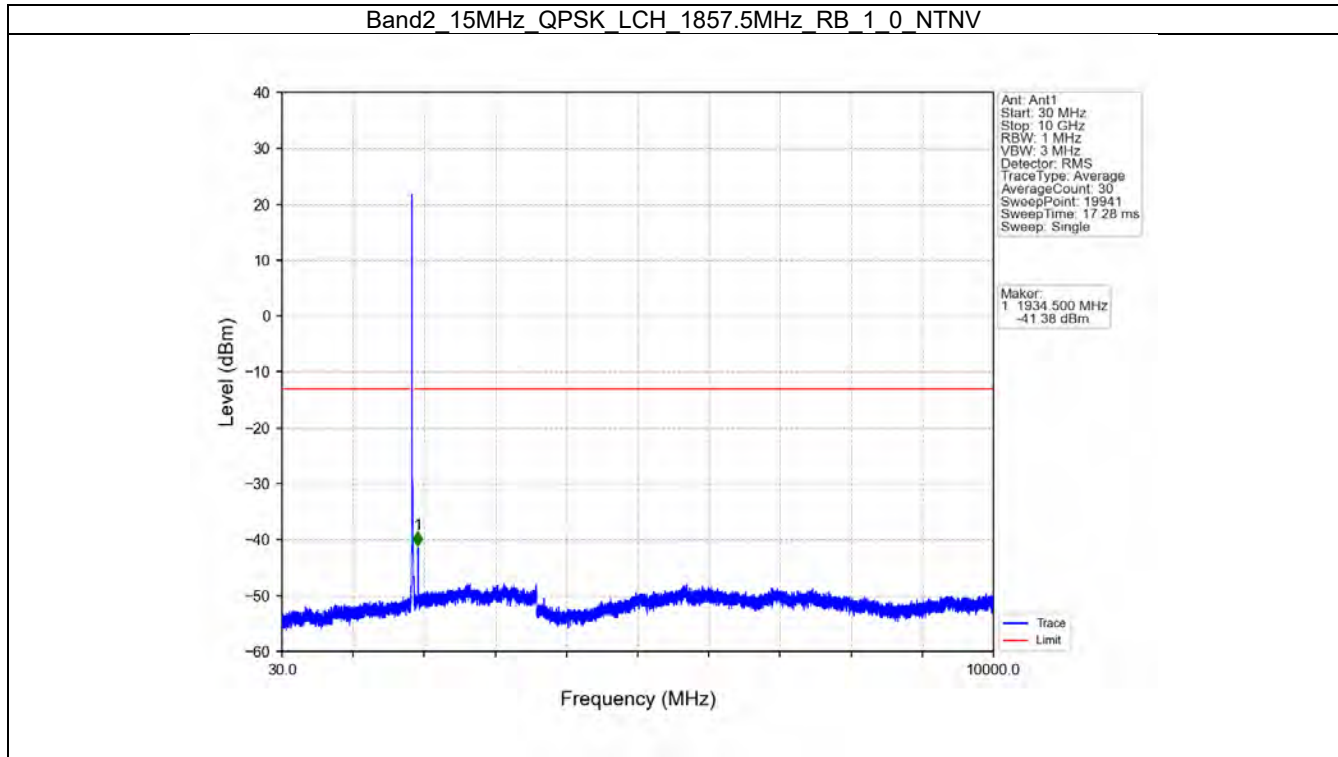


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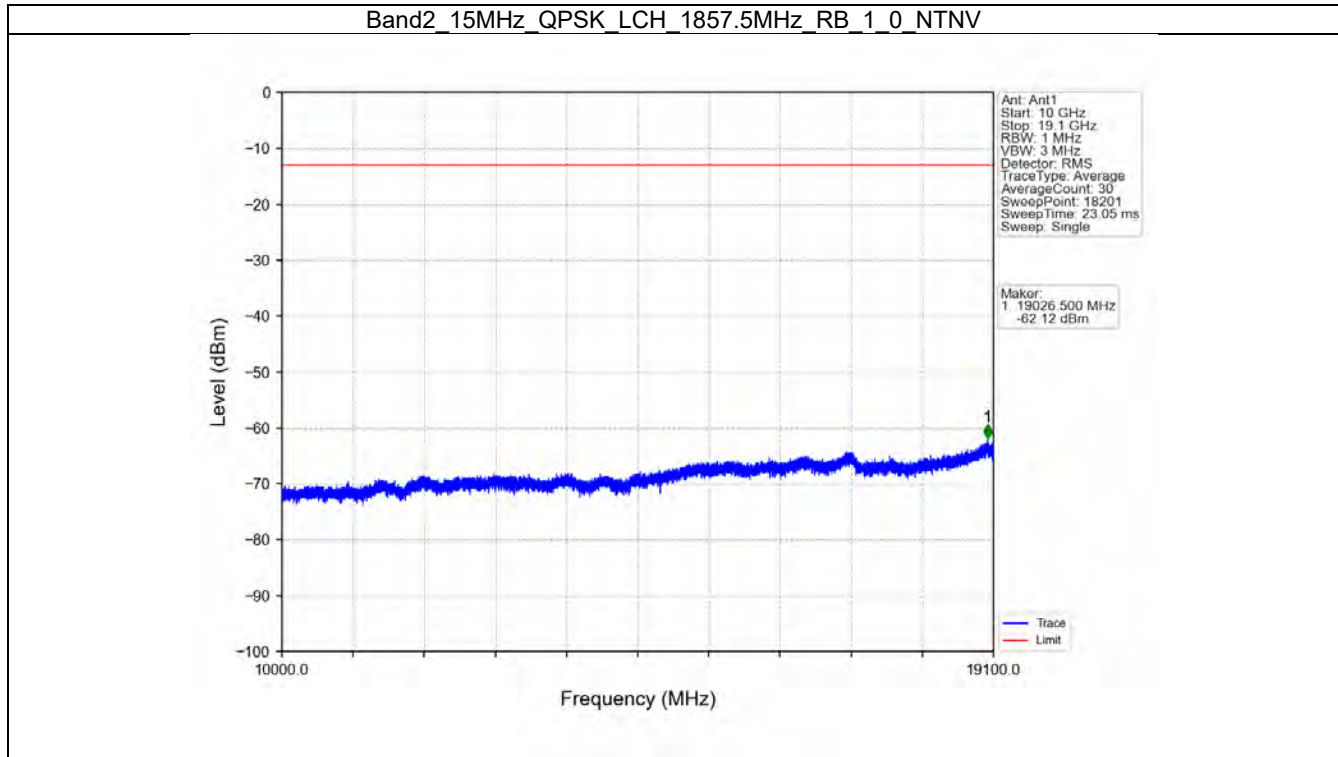


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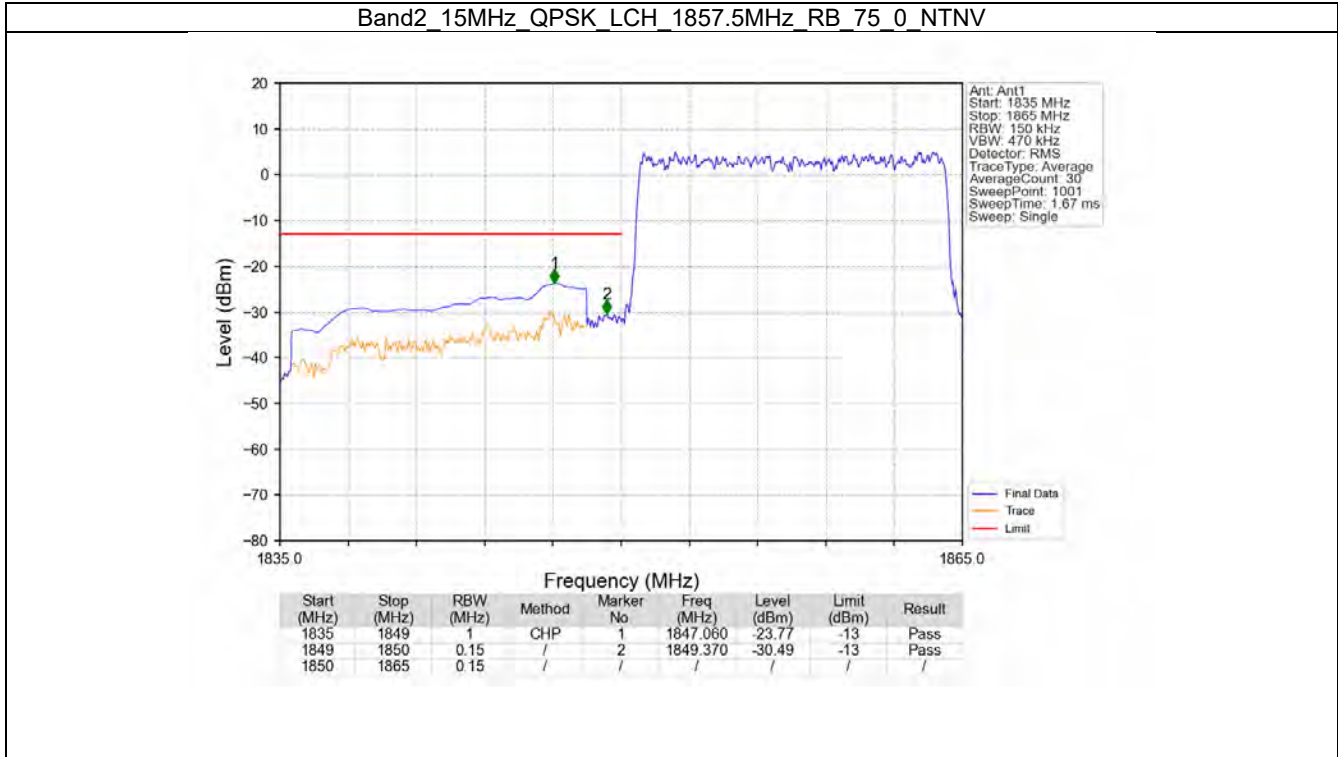
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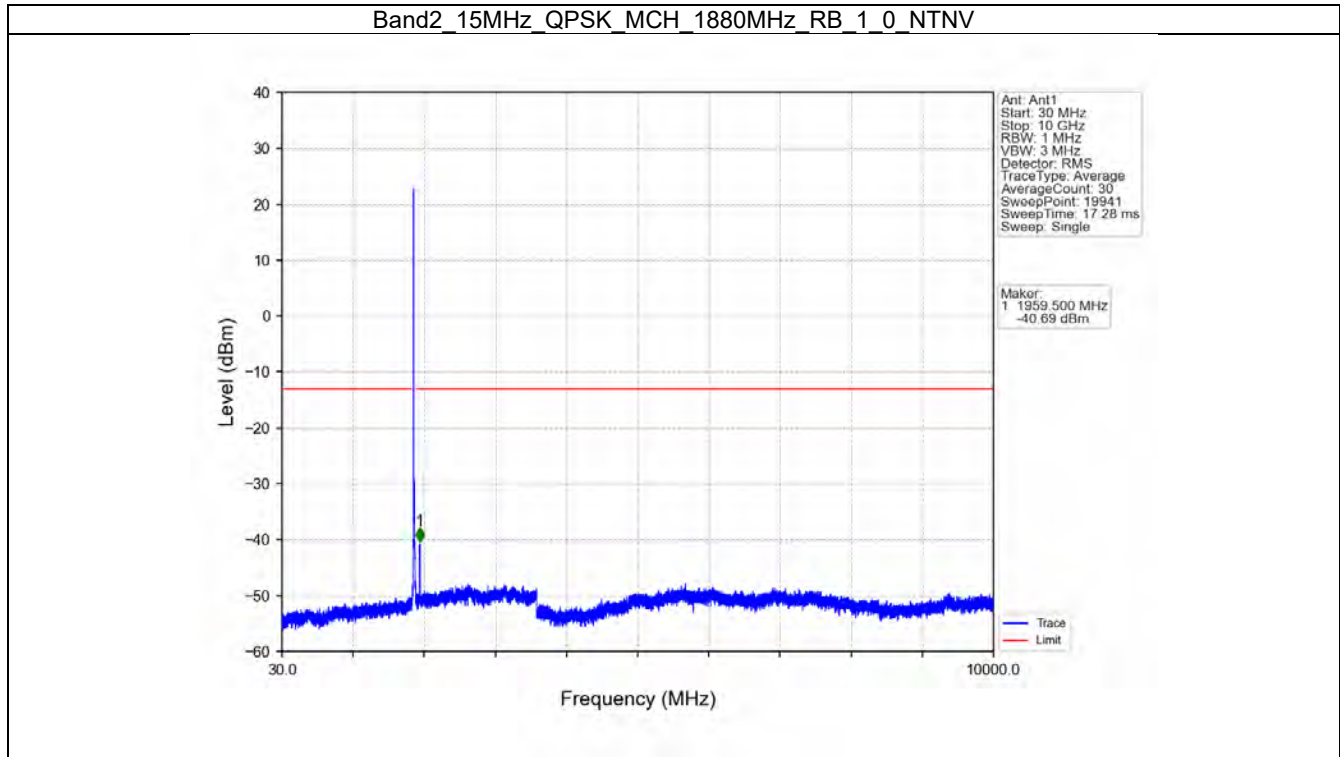


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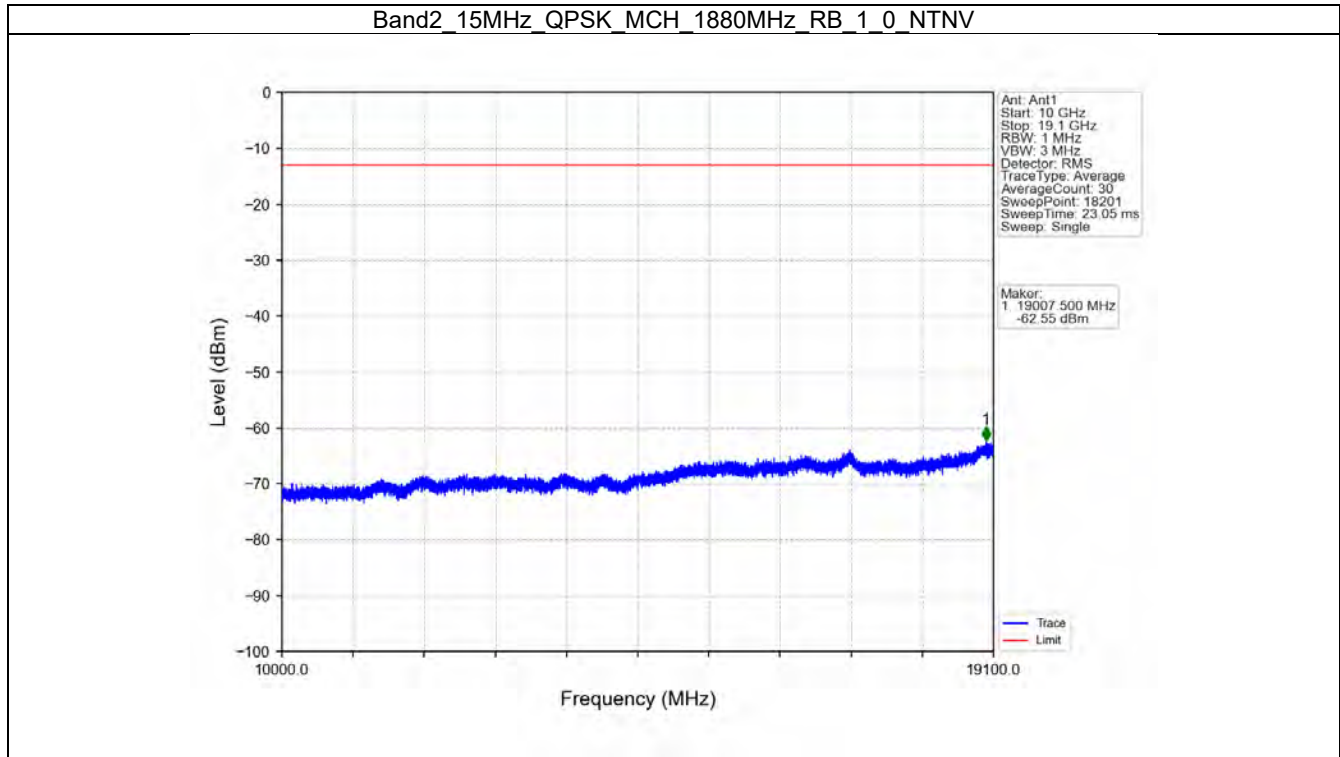
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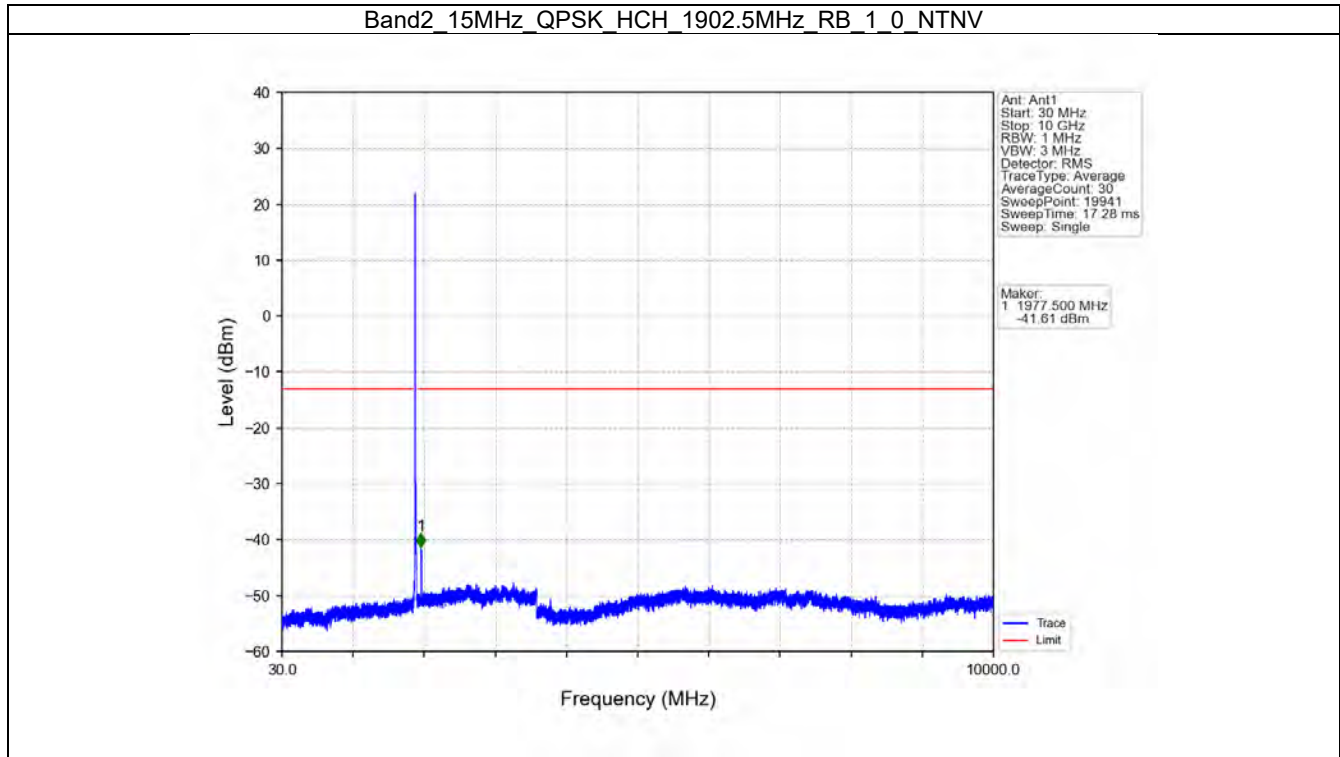


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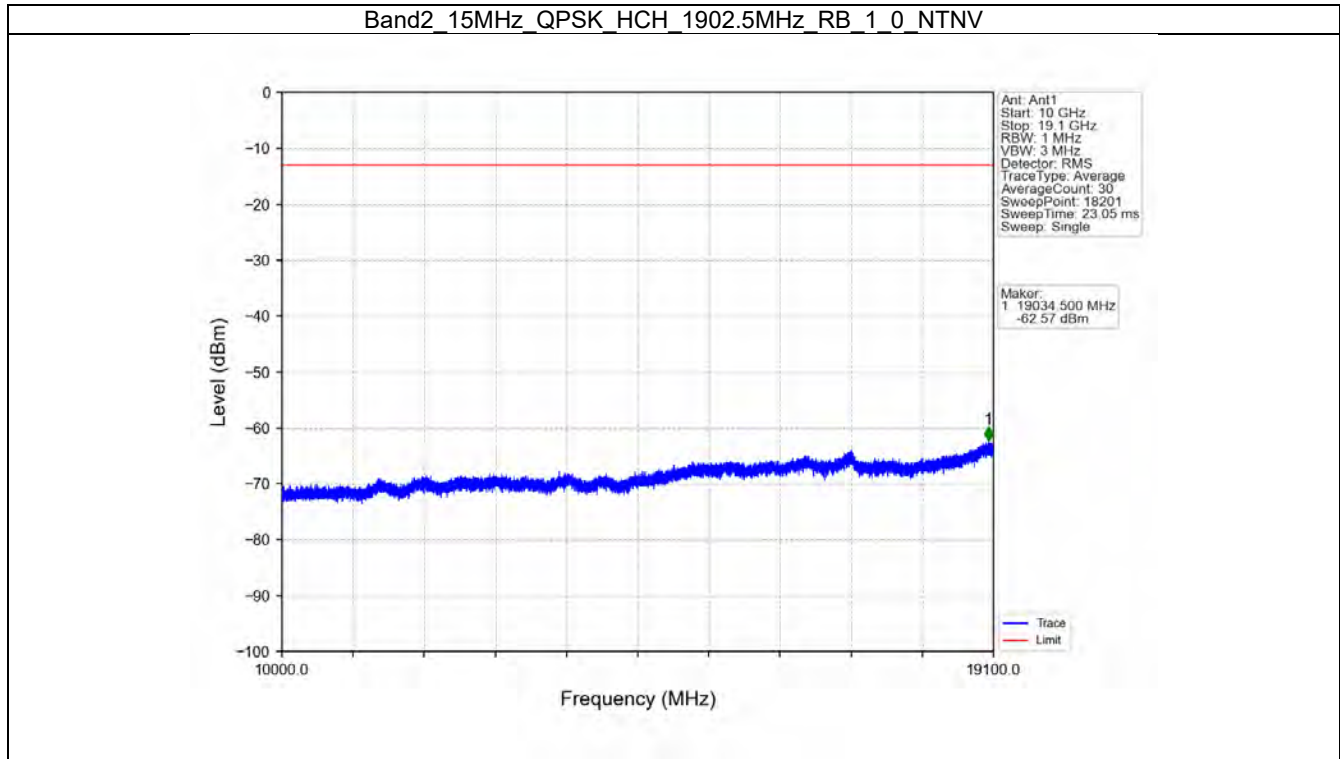
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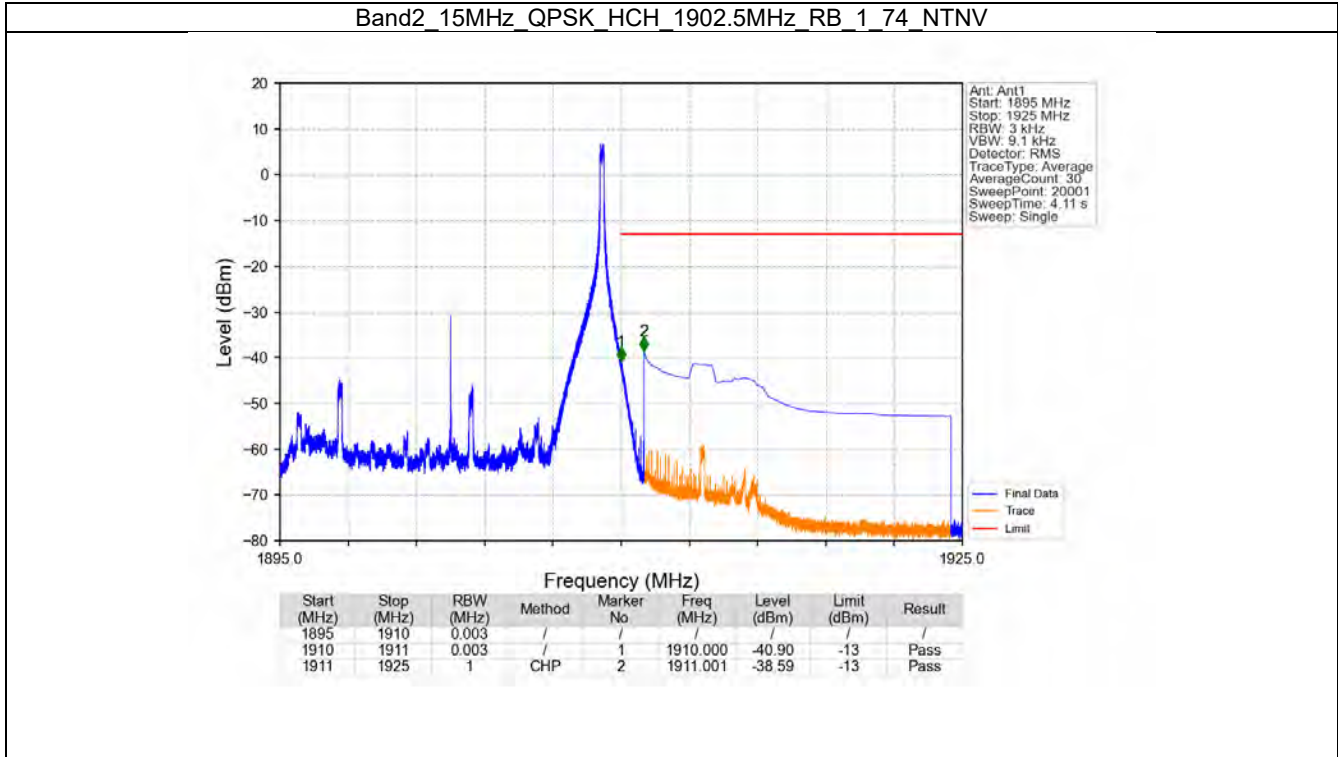
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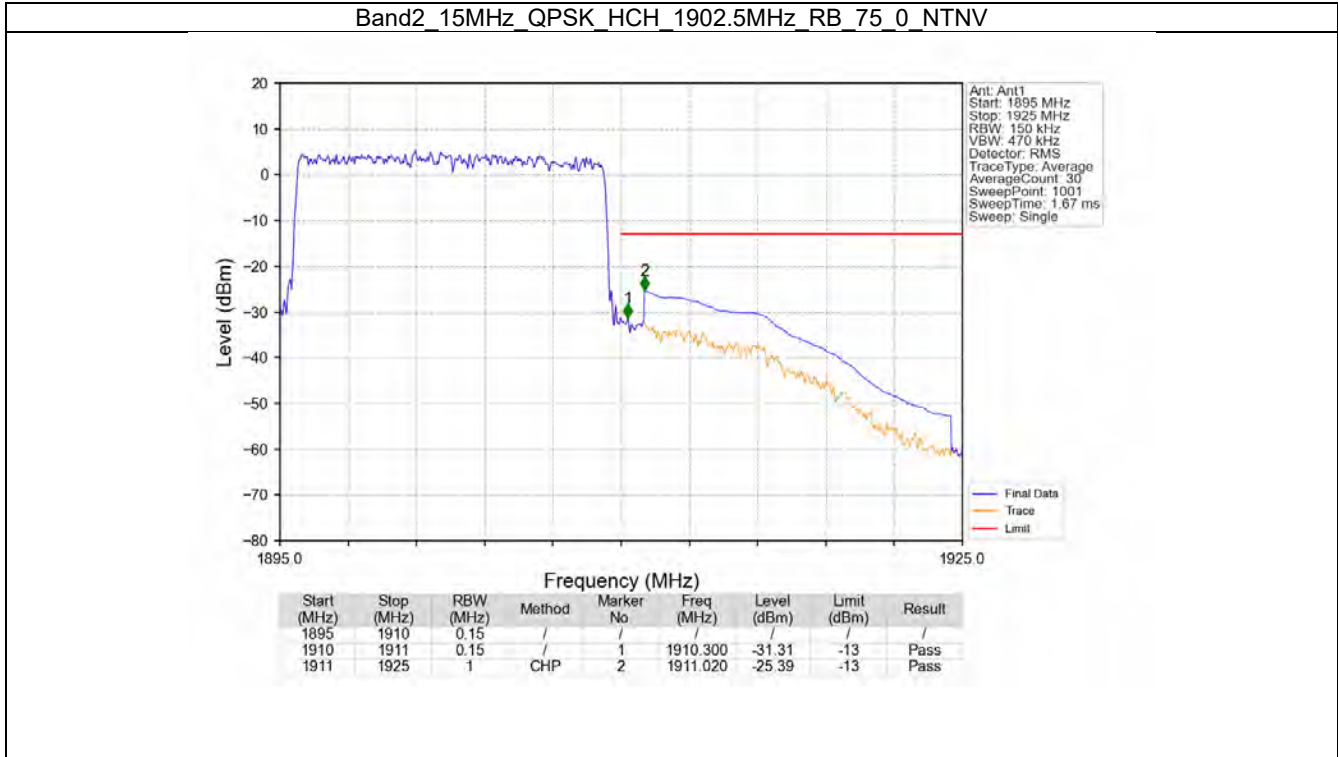
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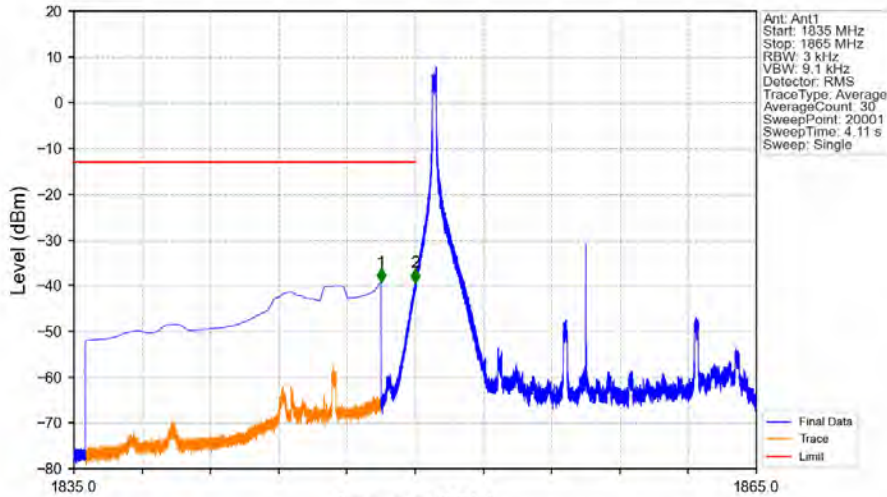
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Band2\_15MHz\_16QAM\_LCH\_1857.5MHz\_RB\_1\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1835	1849	1	CHP	1	1848.497	-39.26	-13	Pass
1849	1850	0.003	/	2	1850.000	-39.35	-13	Pass
1850	1865	0.003	/	/	/	/	/	/



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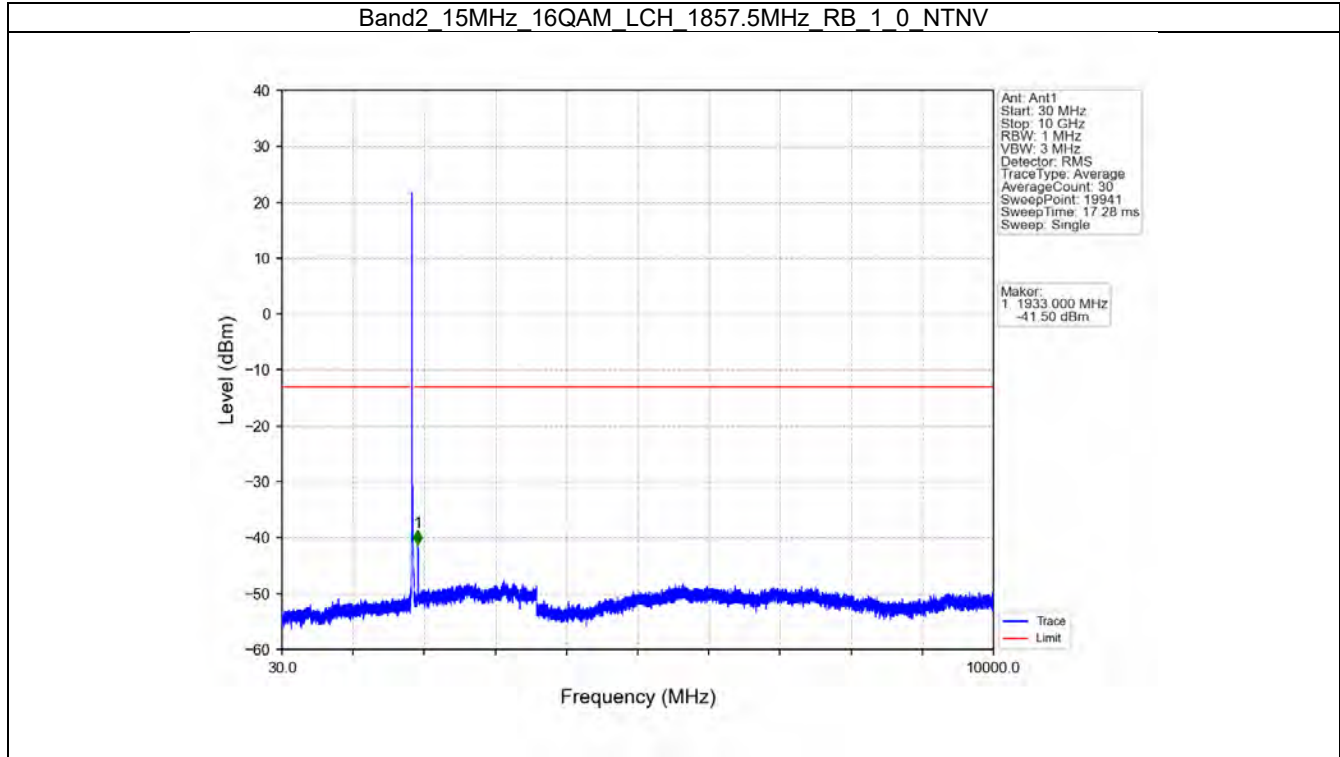
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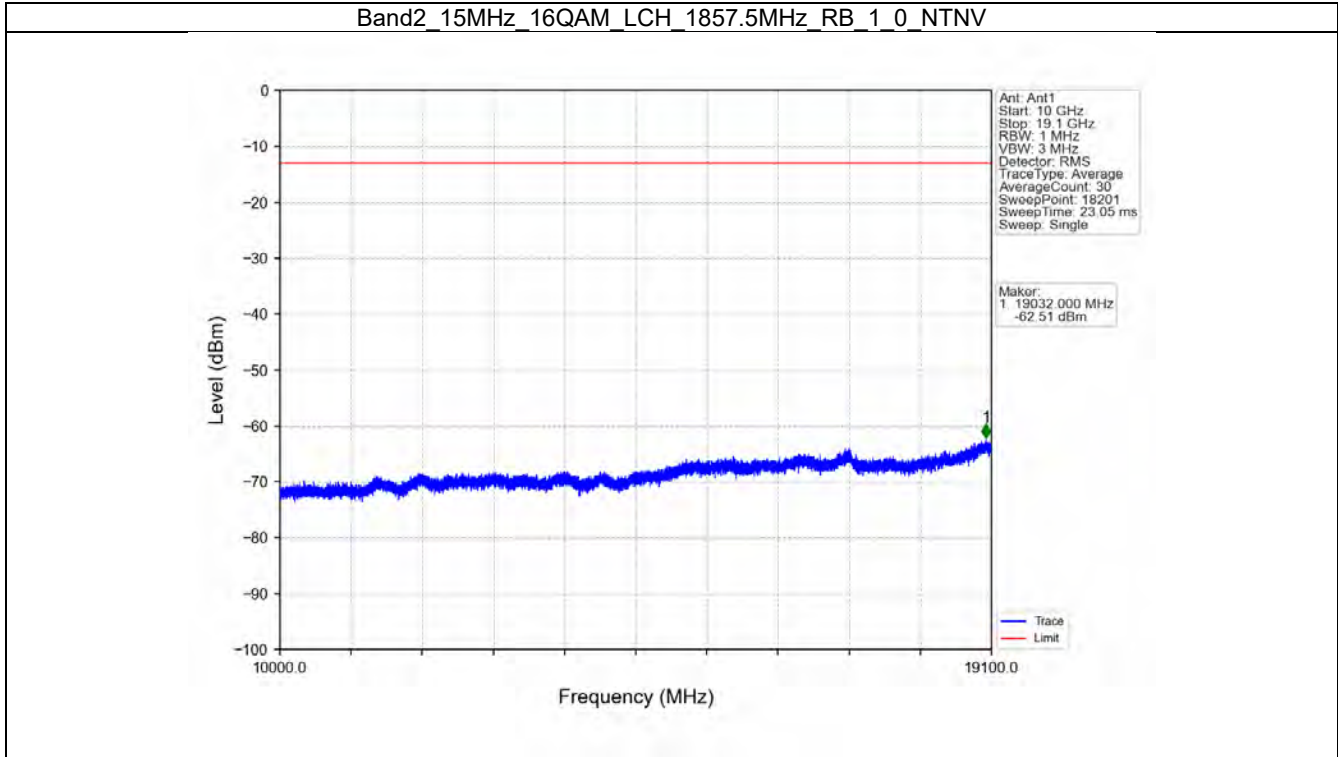
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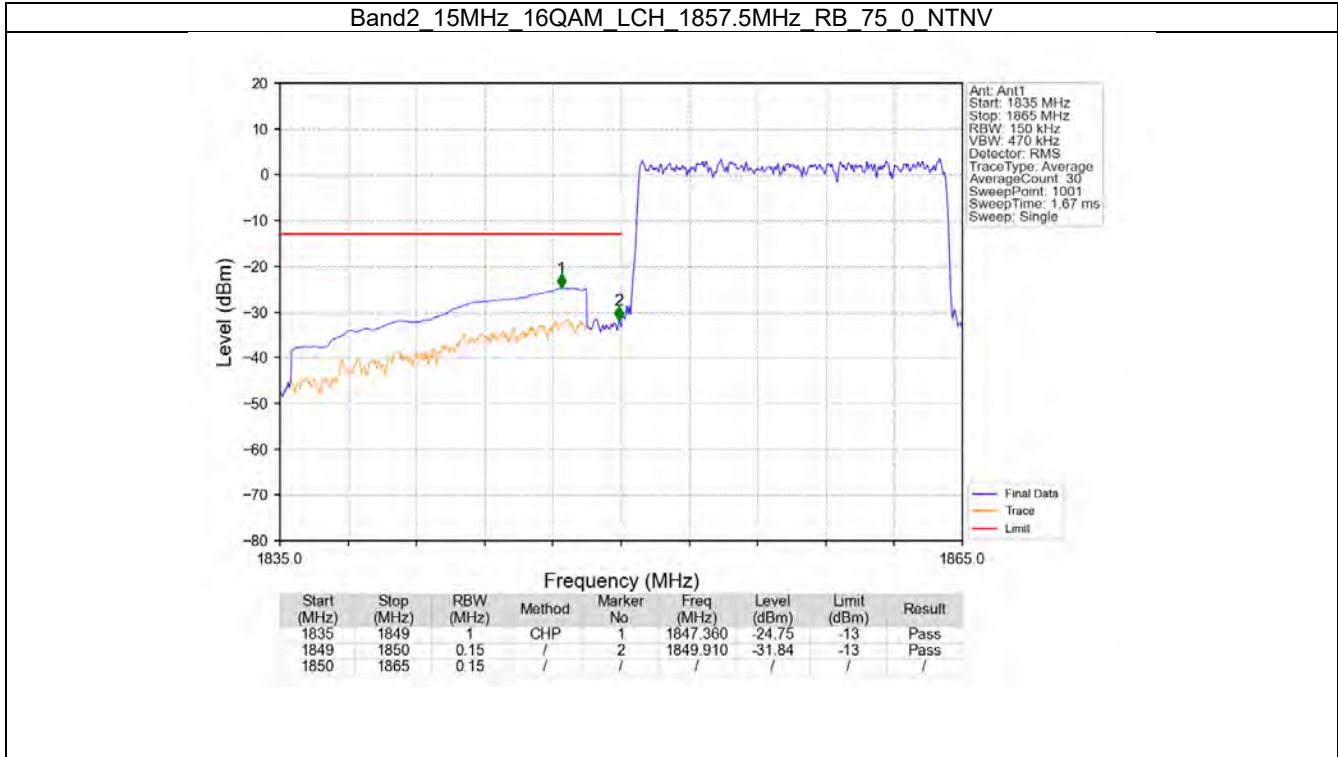
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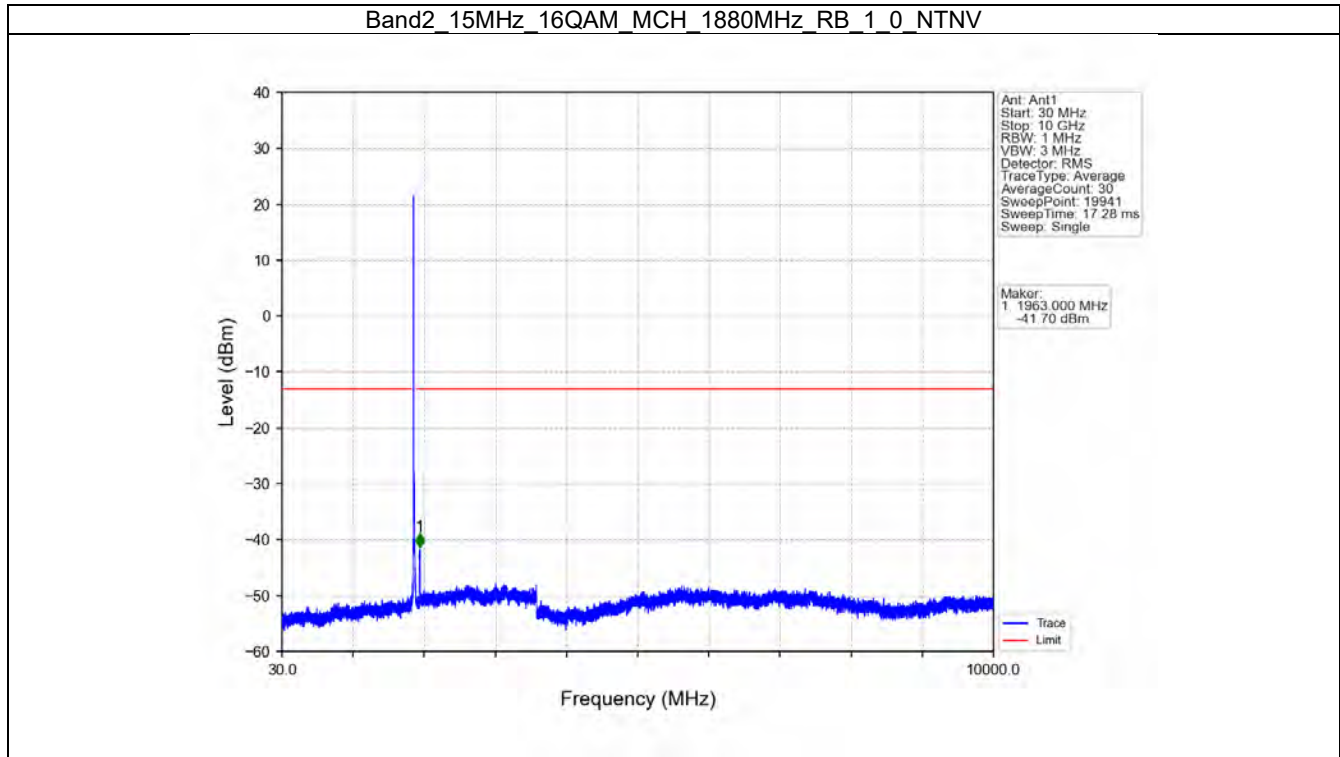


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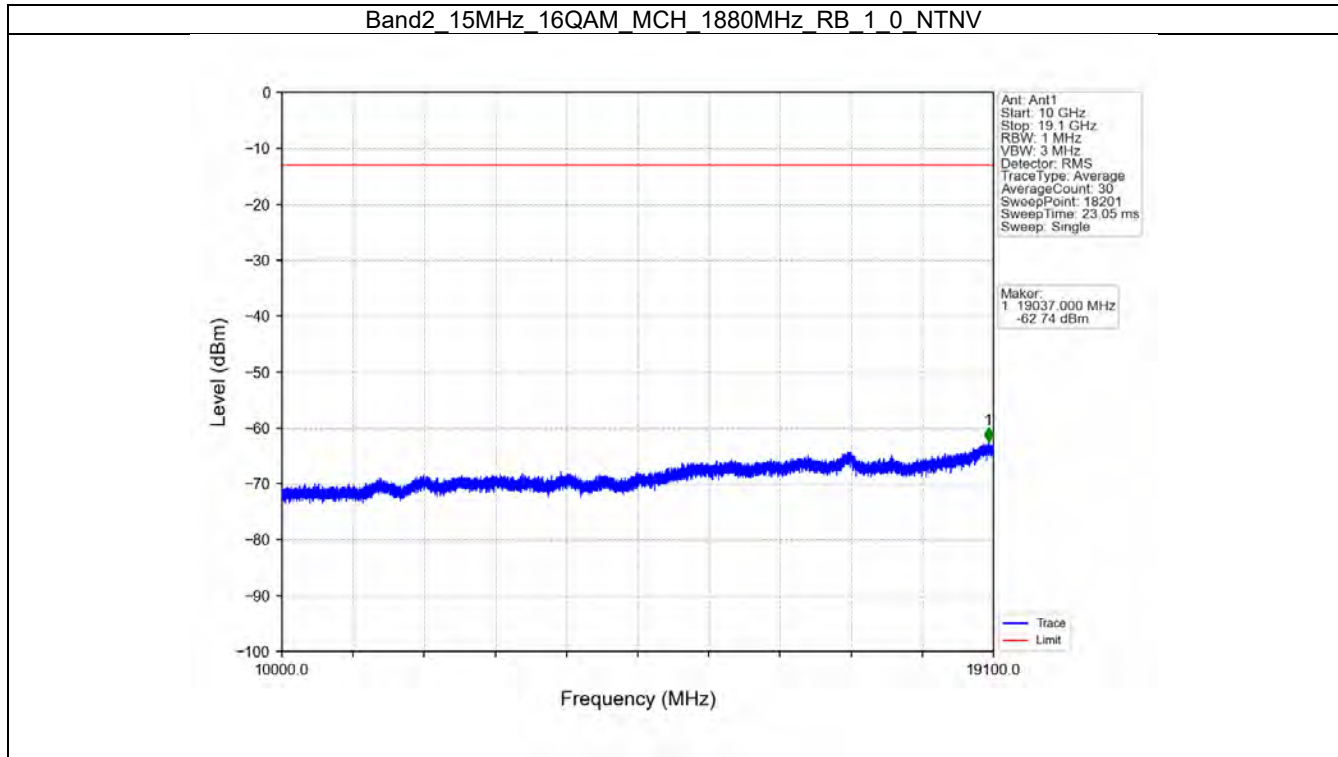


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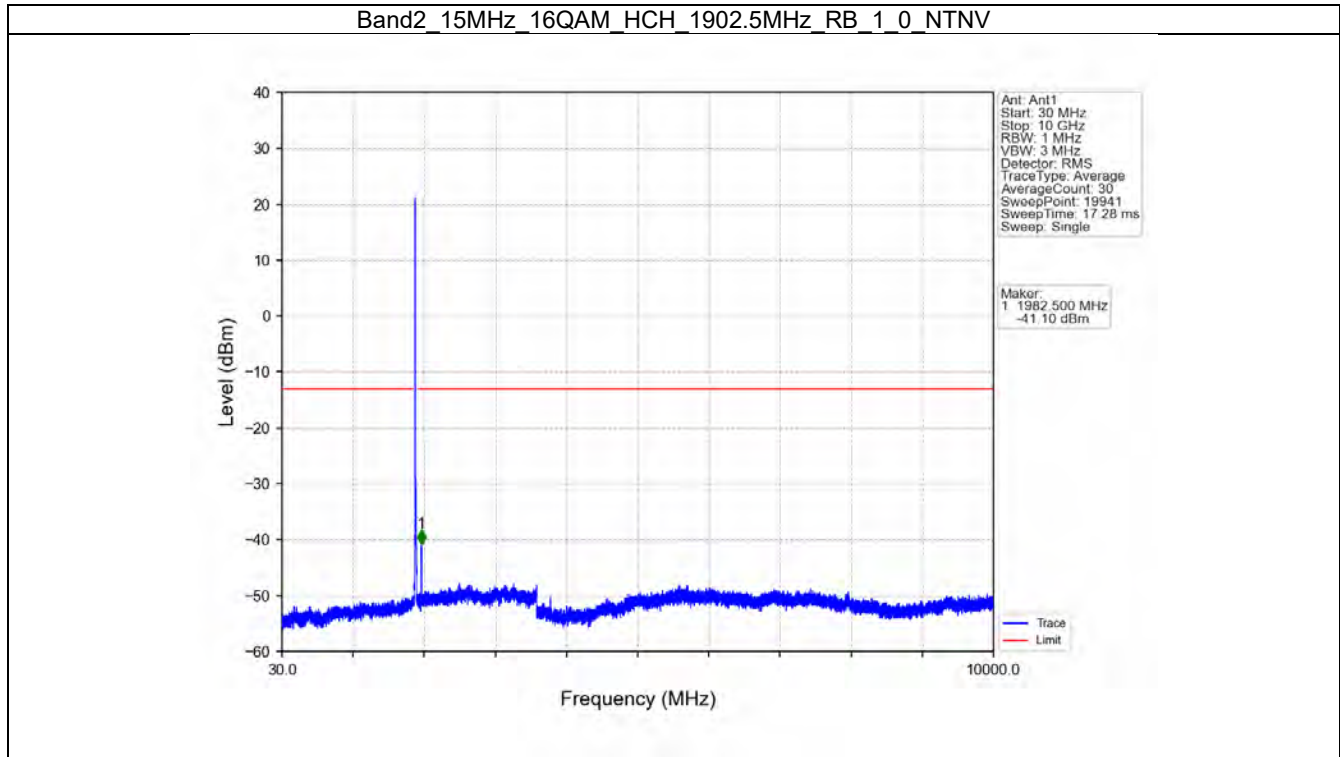


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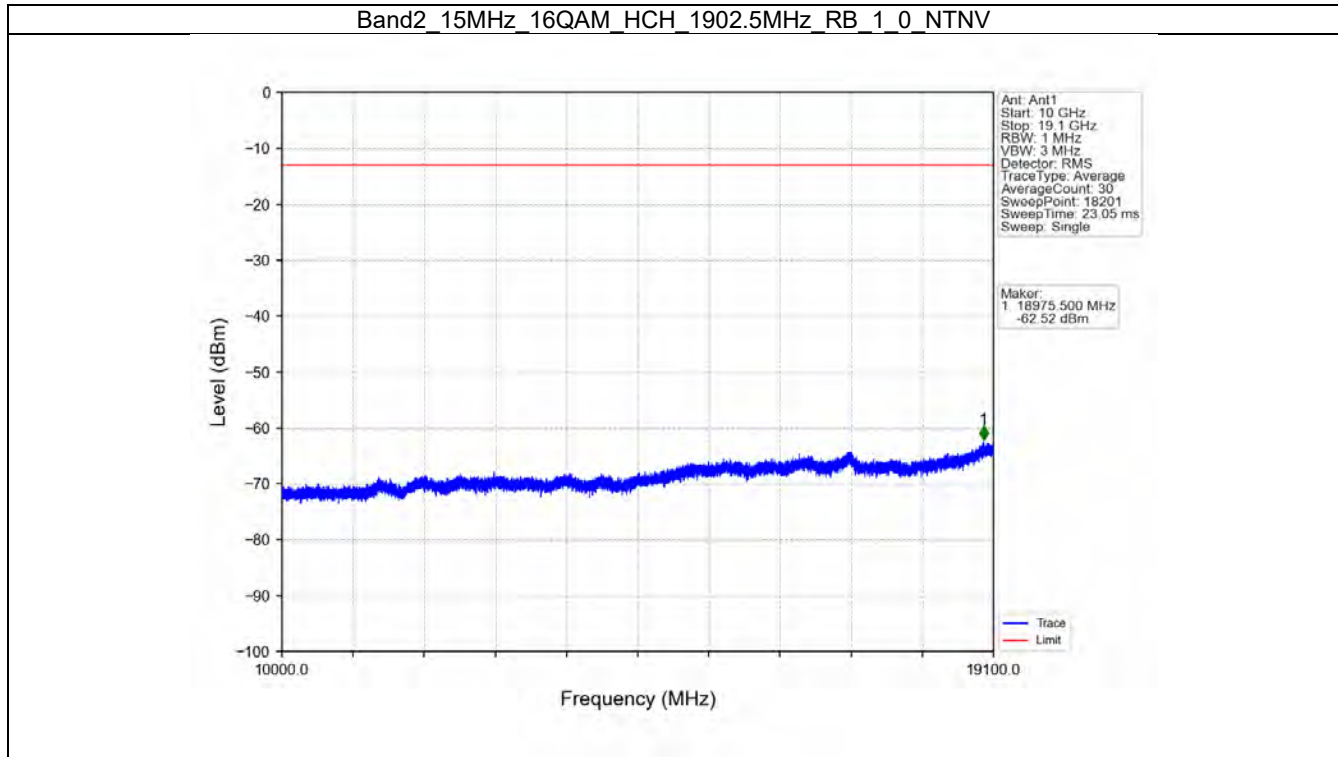


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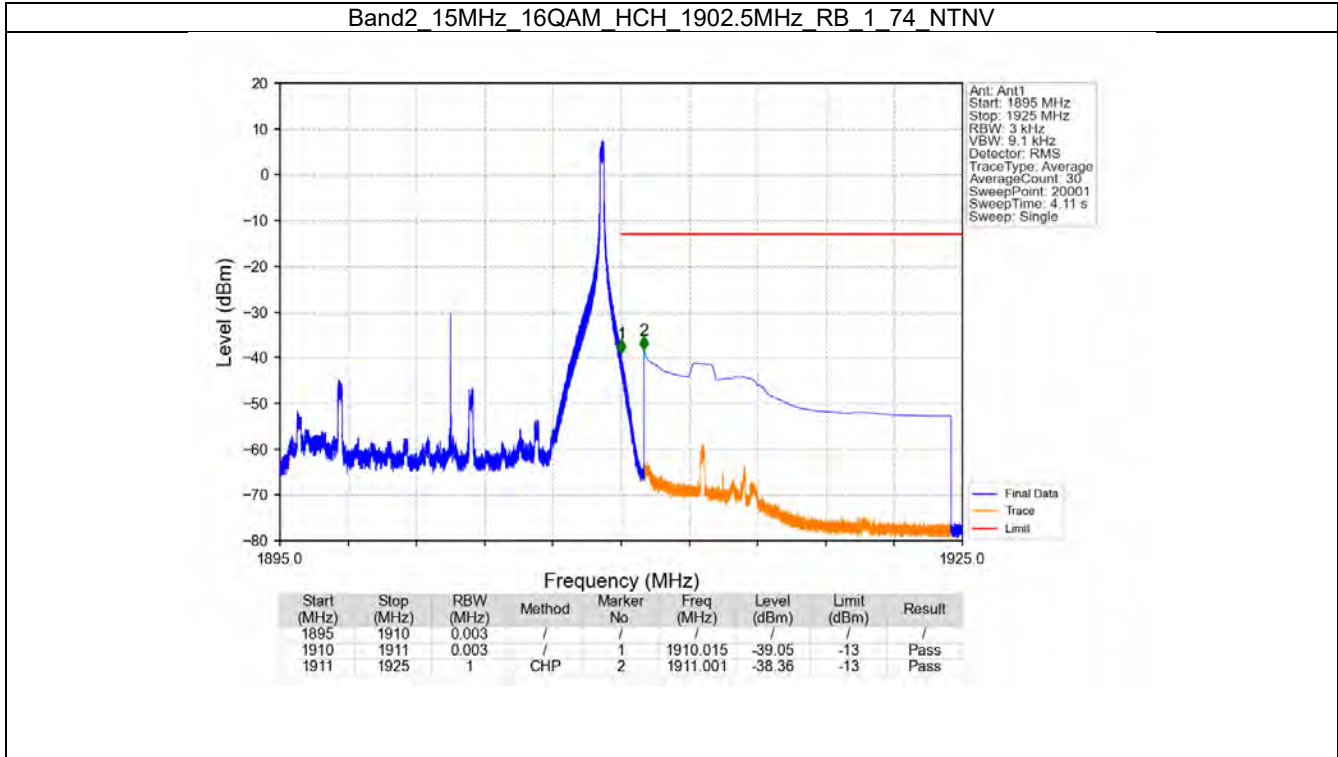
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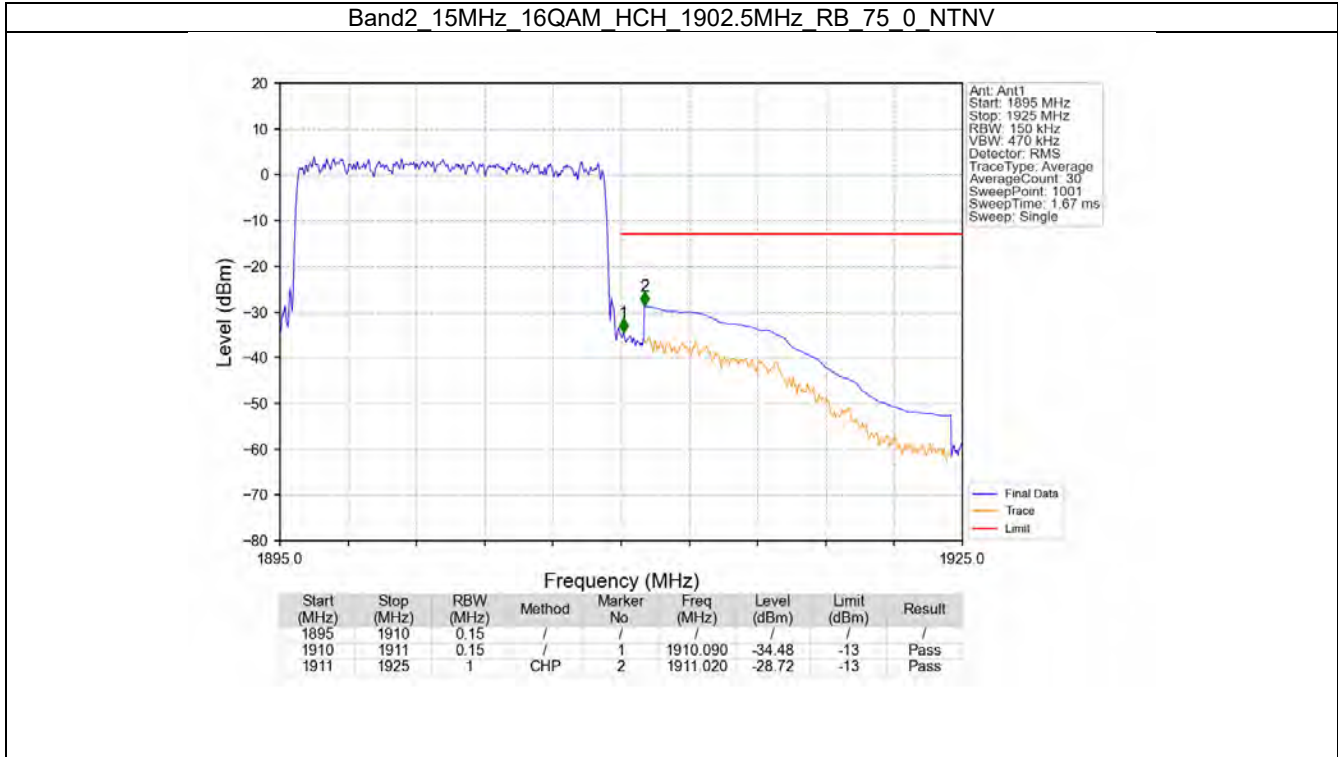
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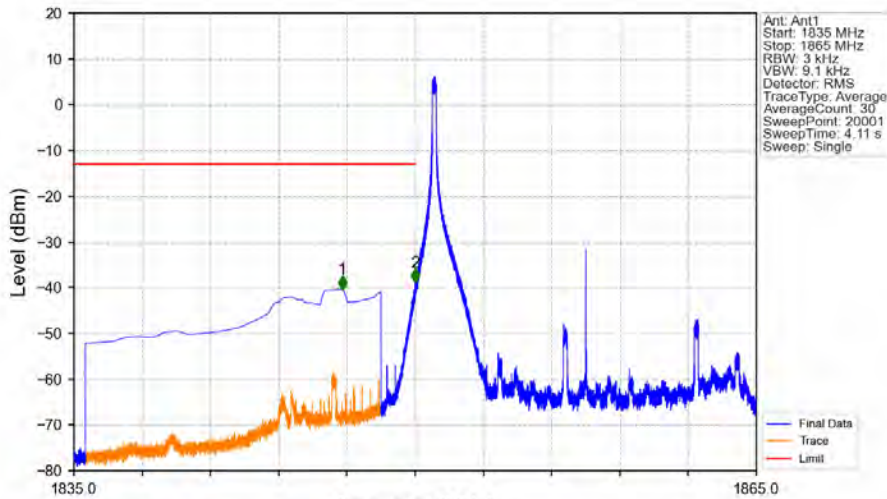
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Band2\_15MHz\_64QAM\_LCH\_1857.5MHz\_RB\_1\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1835	1849	1	CHP	1	1846.803	-40.41	-13	Pass
1849	1850	0.003	/	2	1849.998	-38.89	-13	Pass
1850	1865	0.003	/	/	/	/	/	/



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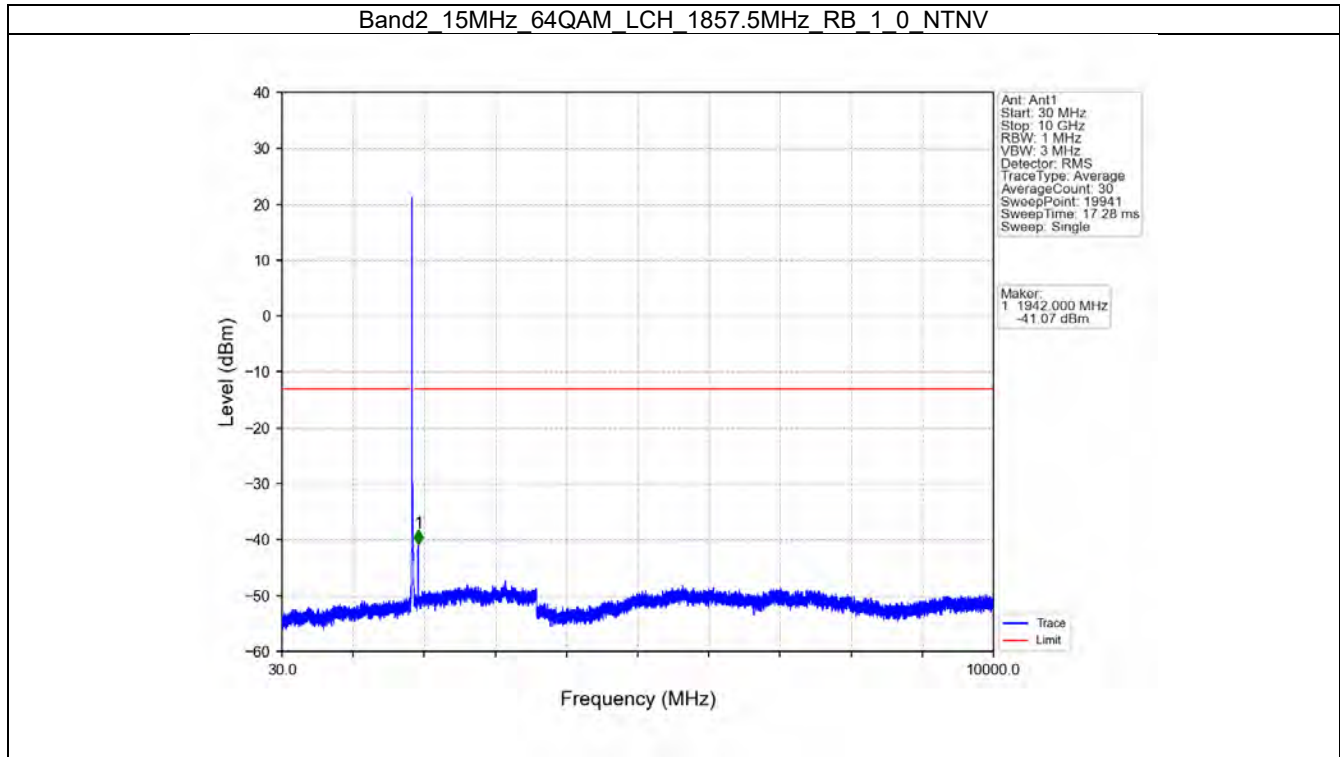


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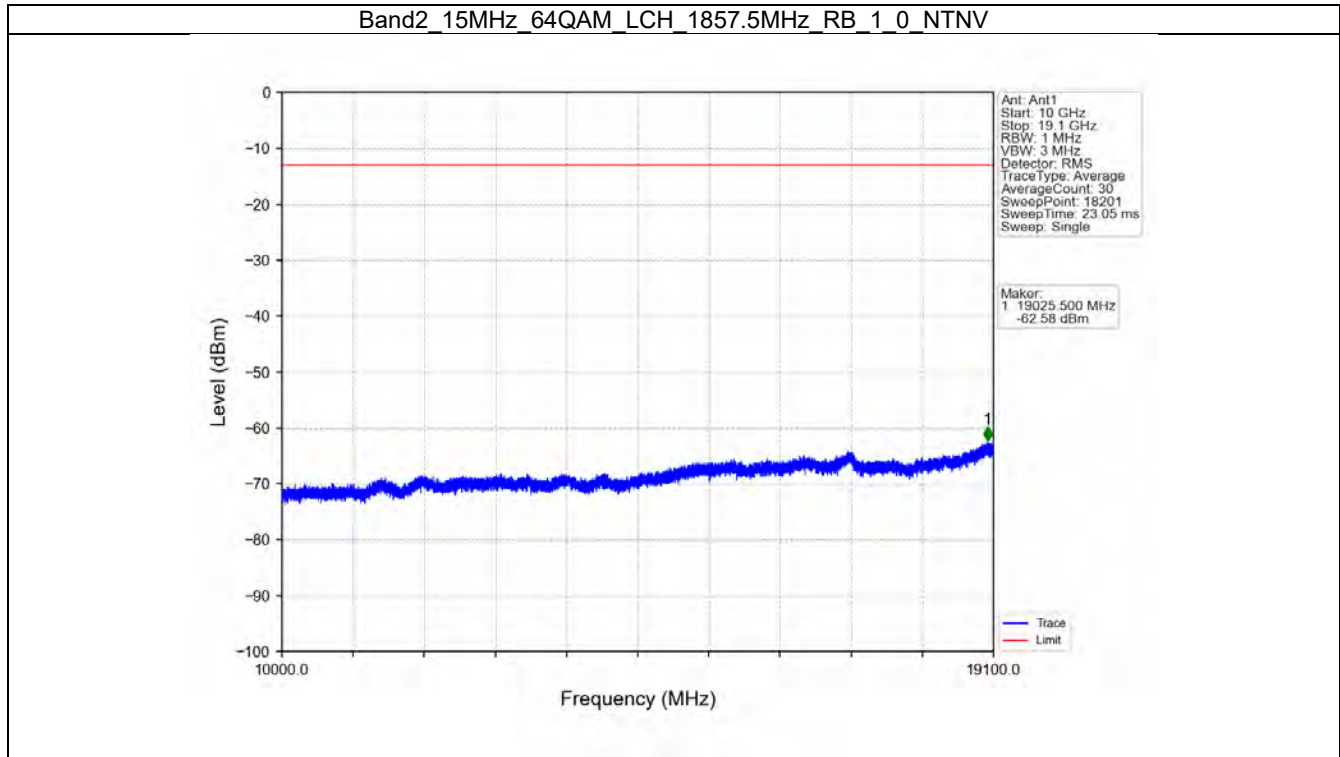


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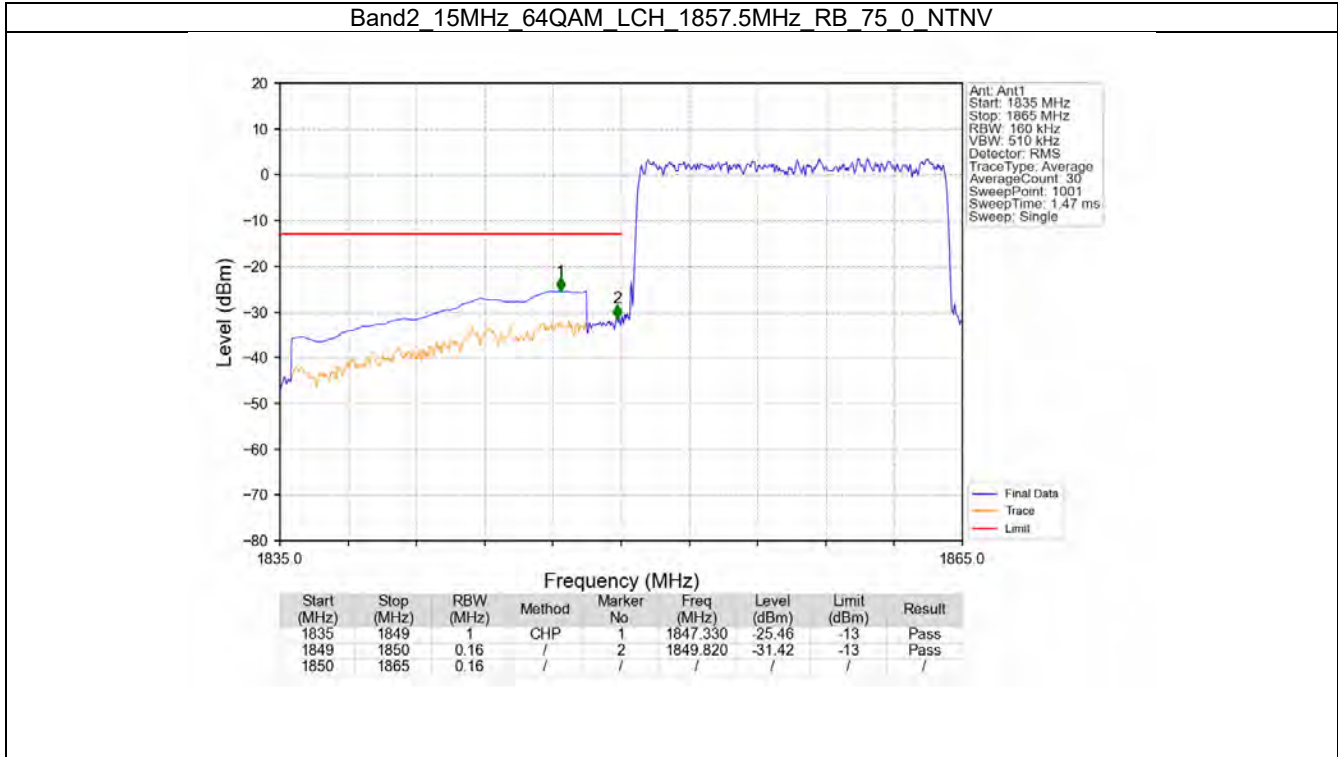
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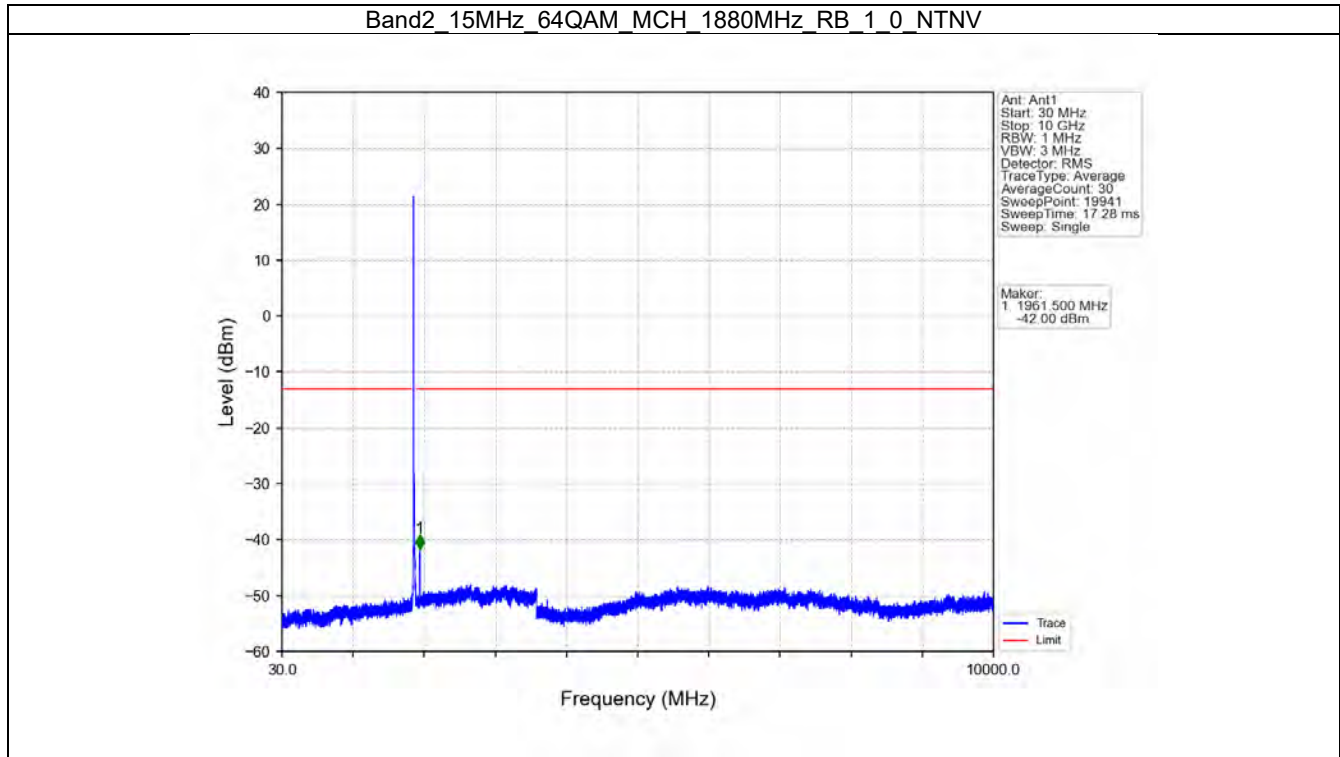


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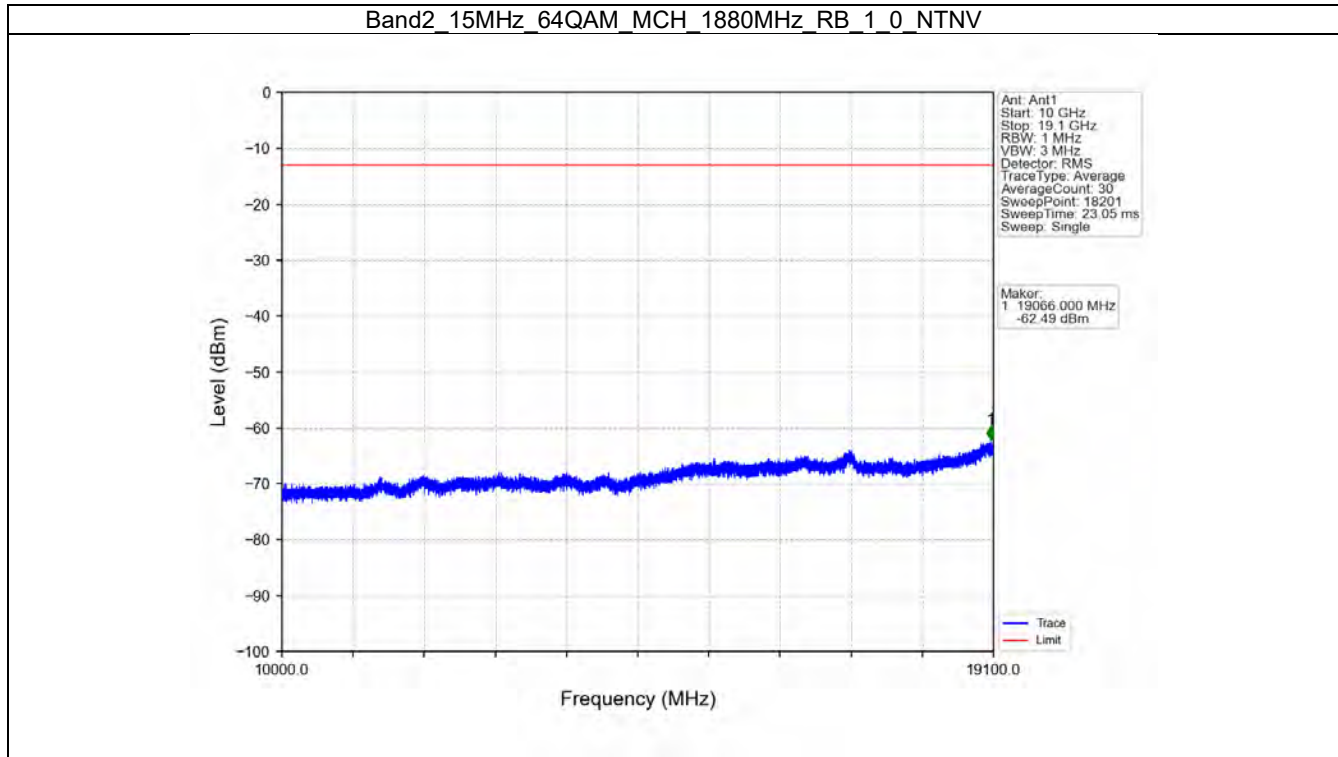


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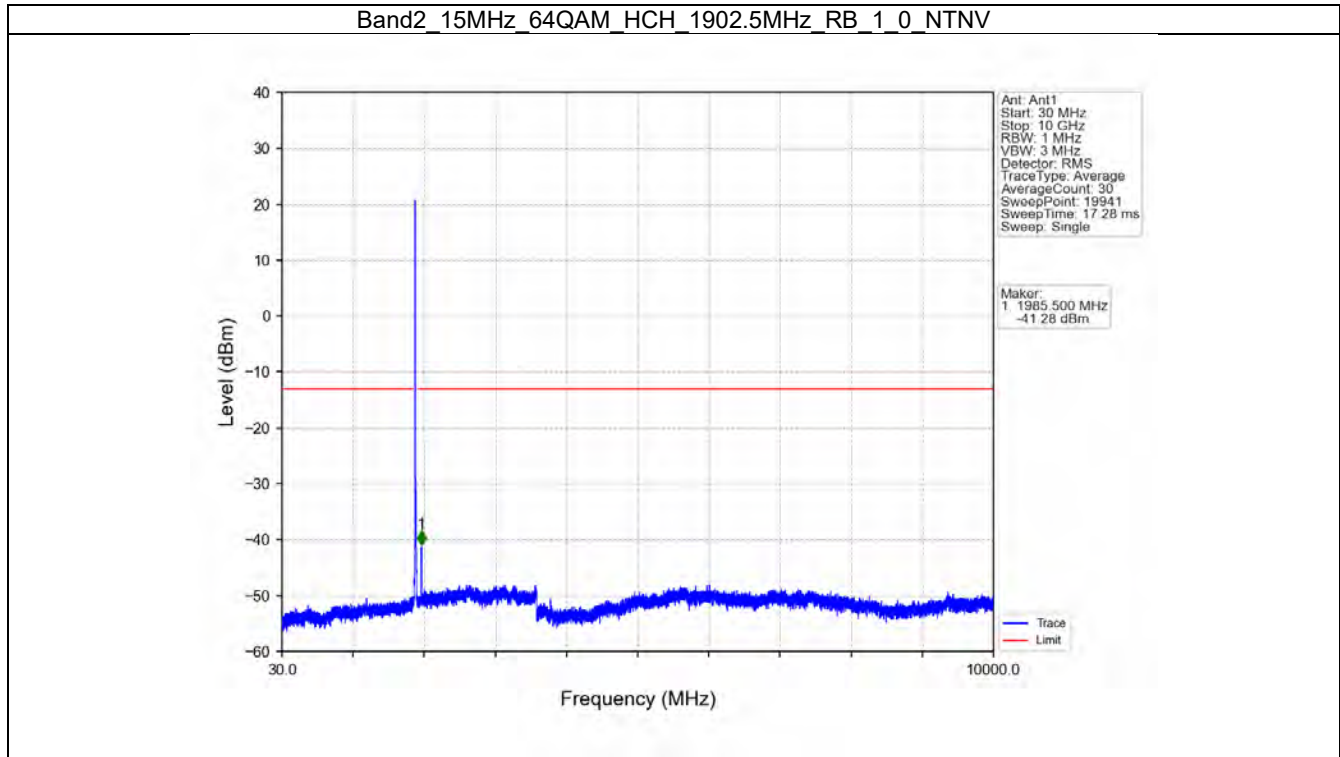


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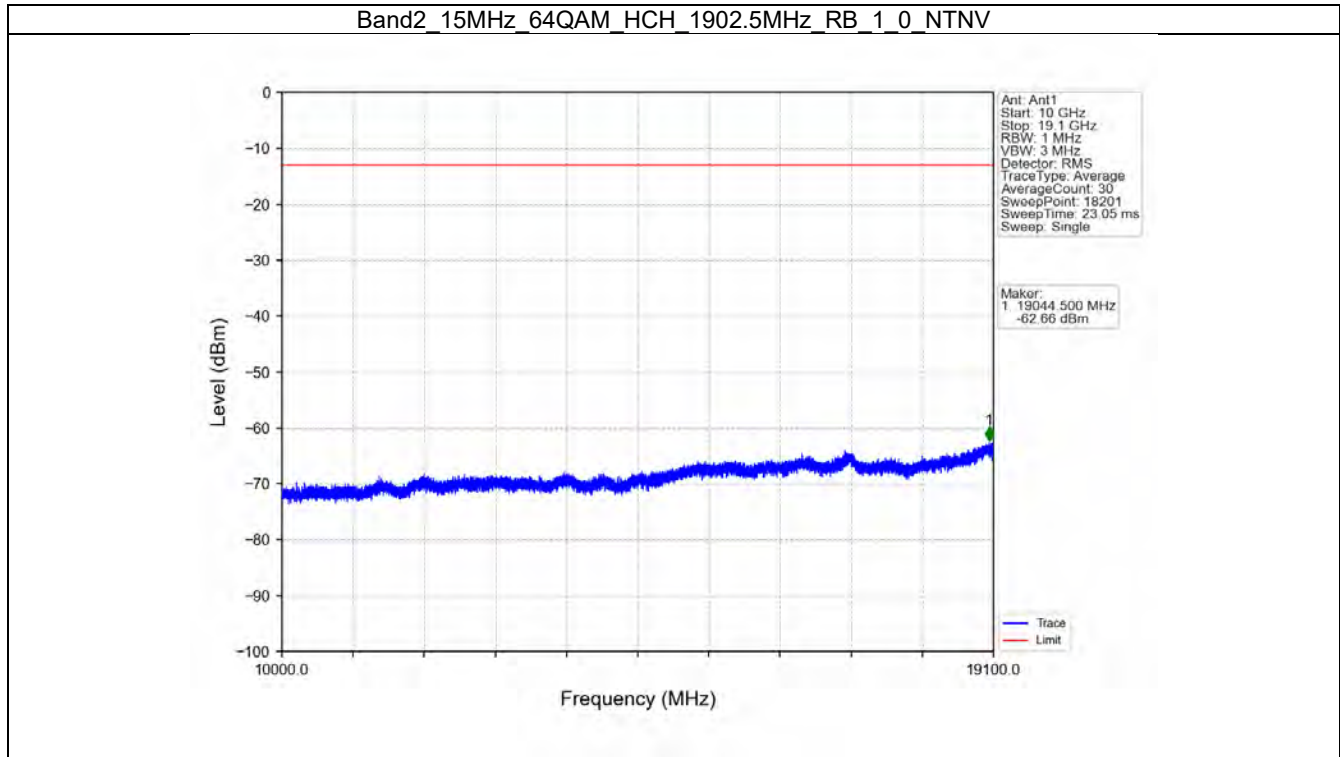
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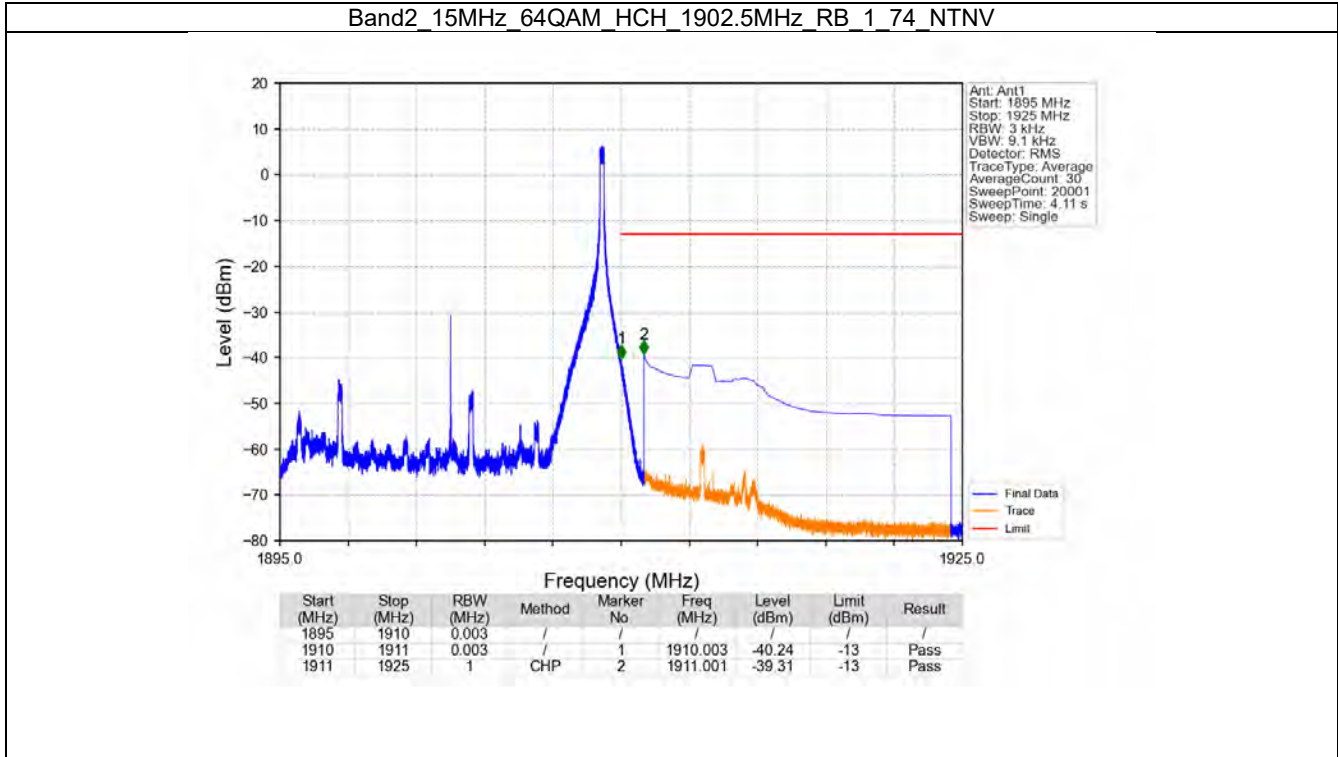
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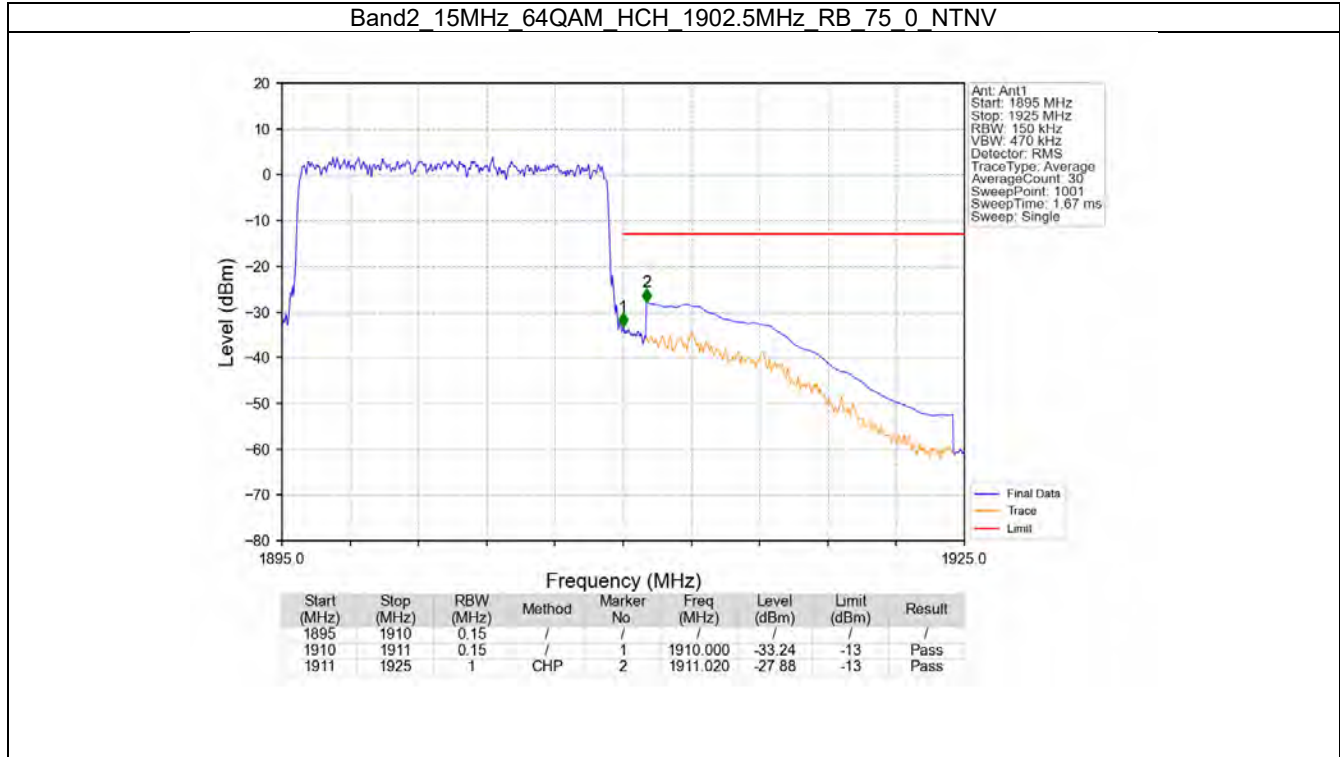
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## 5.6 B2\_20MHz

### 5.6.1 Test Result

Band: 2 / Bandwidth: 20MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1860	1	0	Refer To Test Graph	Pass	
		100	0	Refer To Test Graph	Pass	
	1900	1	0	Refer To Test Graph	Pass	
		1	99	Refer To Test Graph	Pass	
		100	0	Refer To Test Graph	Pass	
16QAM	1860	1	0	Refer To Test Graph	Pass	
		100	0	Refer To Test Graph	Pass	
	1900	1	0	Refer To Test Graph	Pass	
		1	99	Refer To Test Graph	Pass	
		100	0	Refer To Test Graph	Pass	
64QAM	1860	1	0	Refer To Test Graph	Pass	
		100	0	Refer To Test Graph	Pass	
	1900	1	0	Refer To Test Graph	Pass	
		1	99	Refer To Test Graph	Pass	
		100	0	Refer To Test Graph	Pass	



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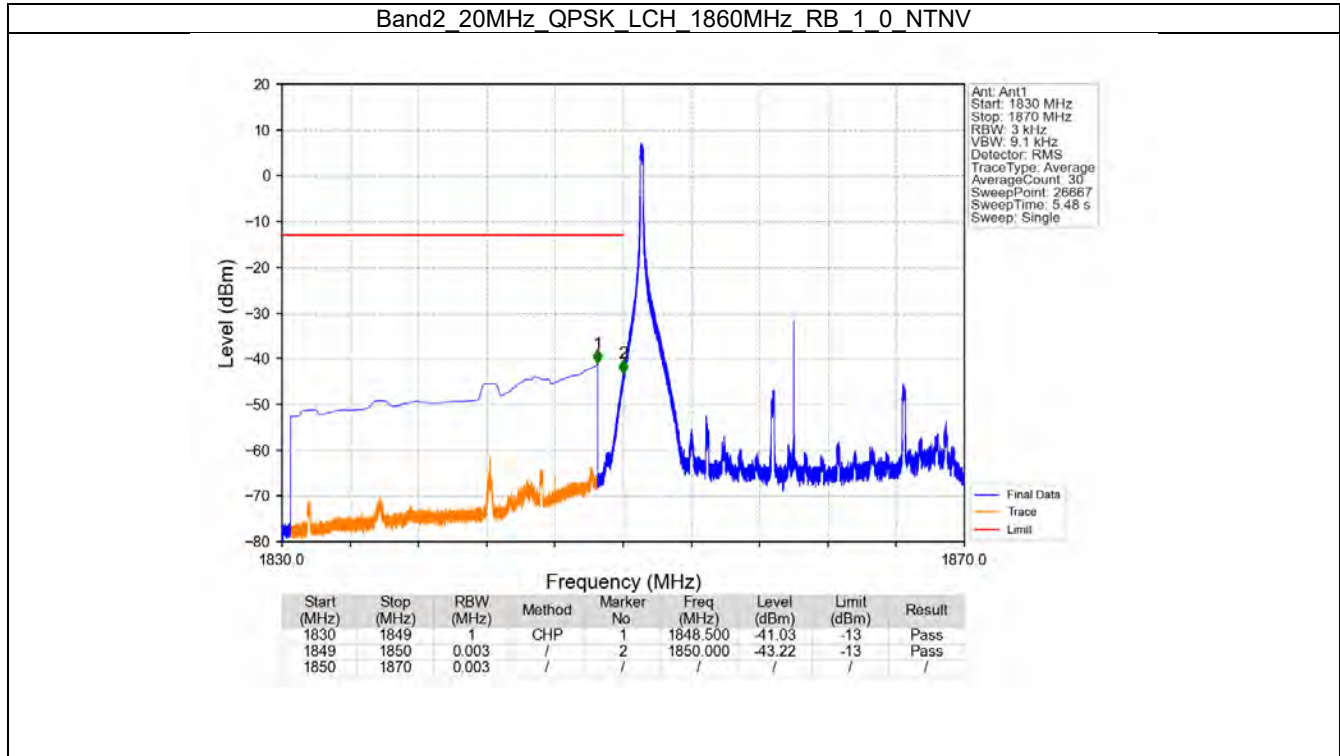
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## 5.6.2 Test Graph



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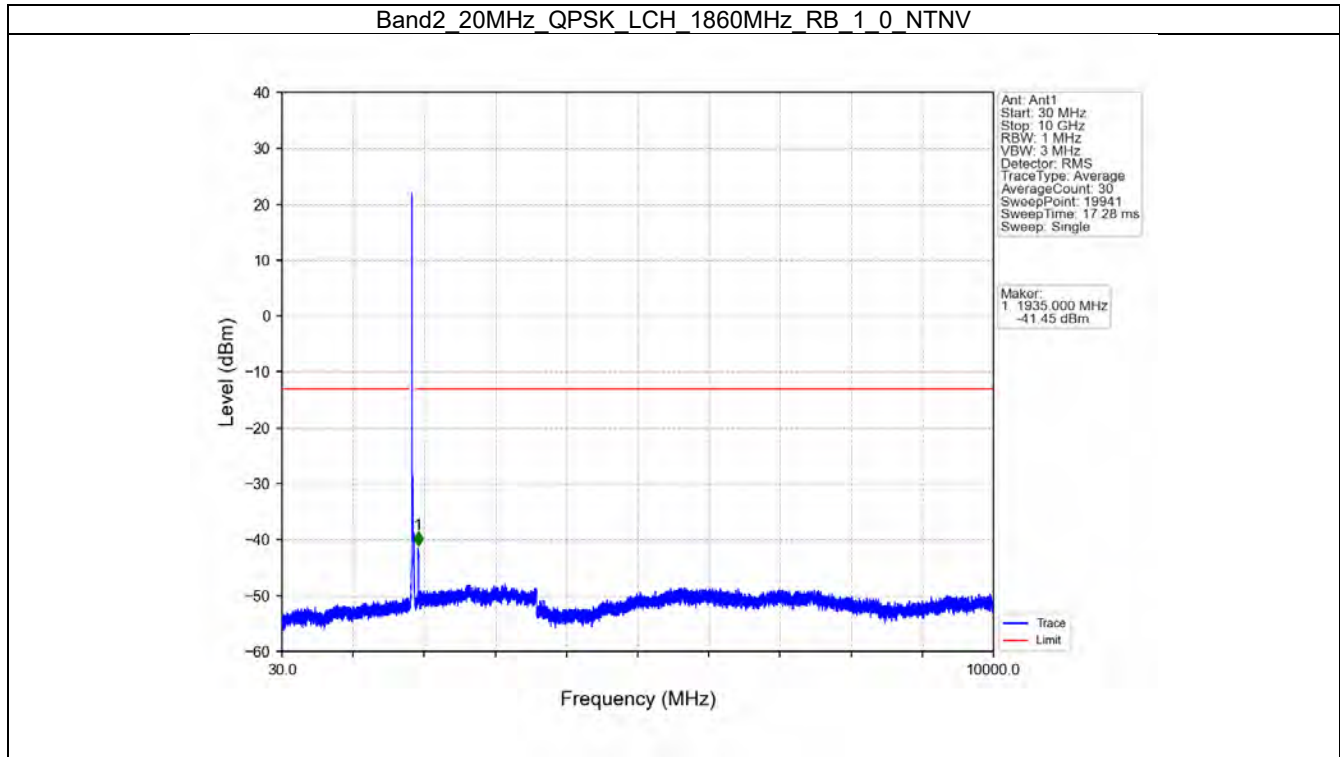


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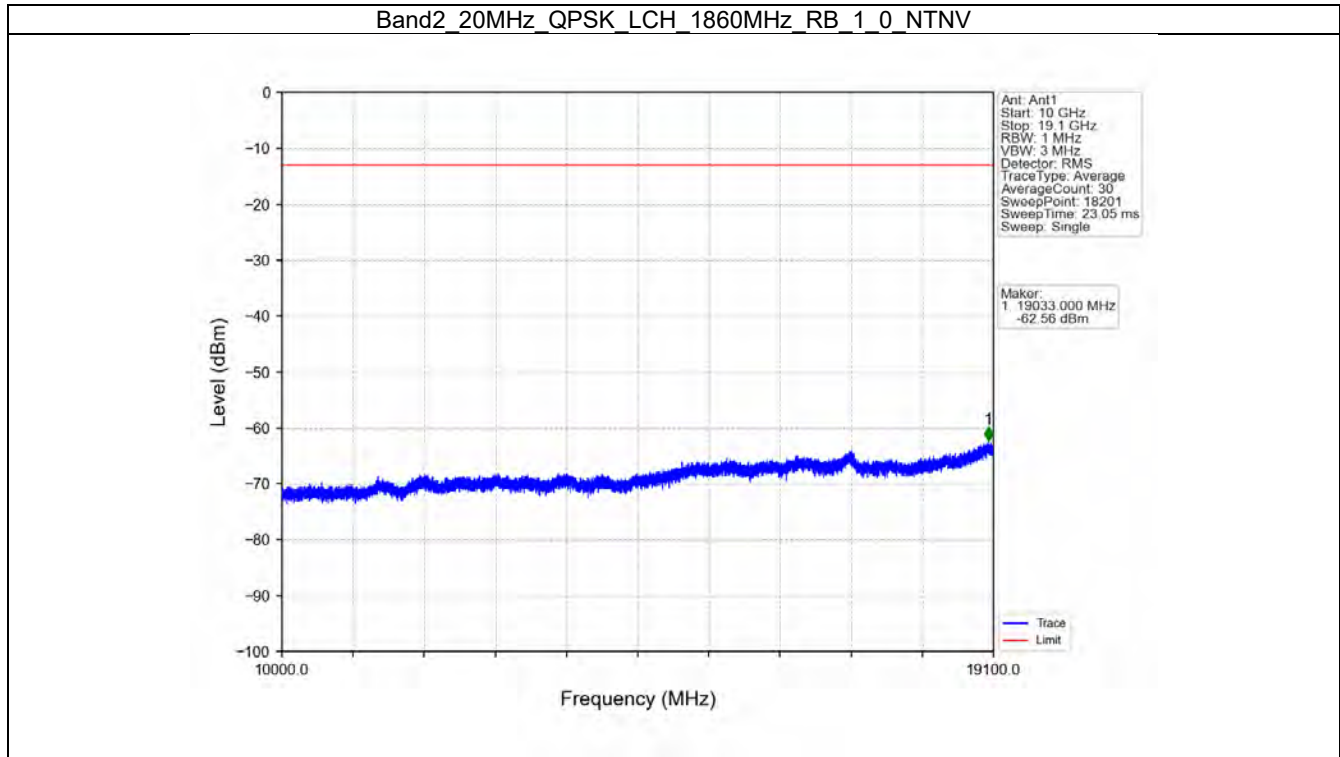


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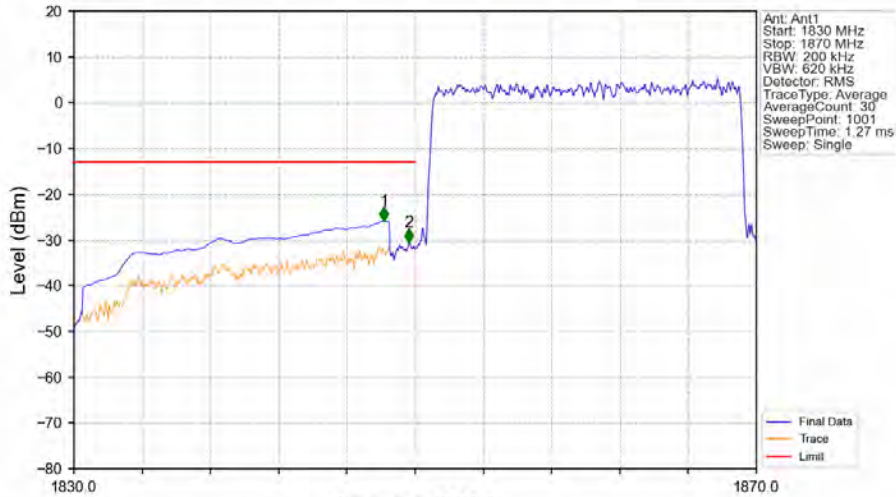
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Band2\_20MHz\_QPSK\_LCH\_1860MHz\_RB\_100\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1830	1849	1	CHP	1	1848.160	-25.88	-13	Pass
1849	1850	0.2	/	2	1849.640	-30.52	-13	Pass
1850	1870	0.2	/	/	/	/	/	/



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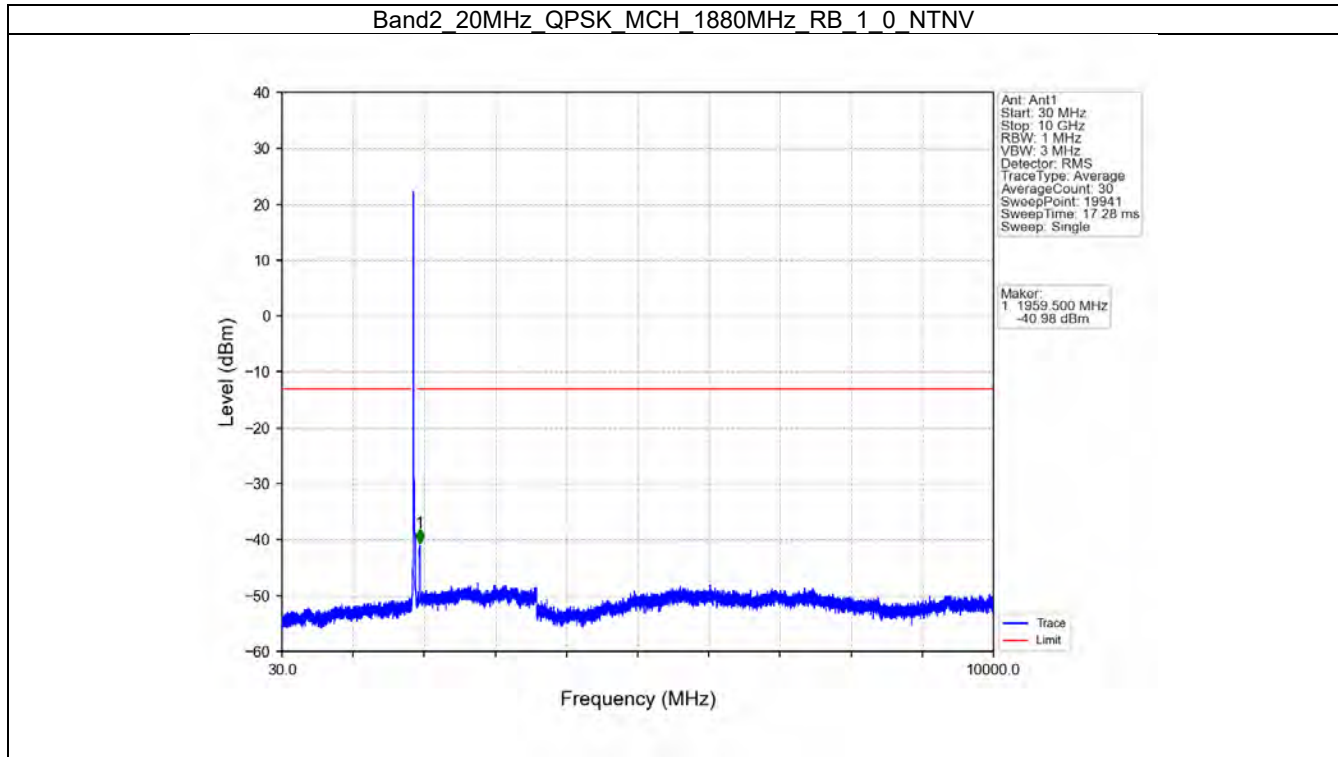


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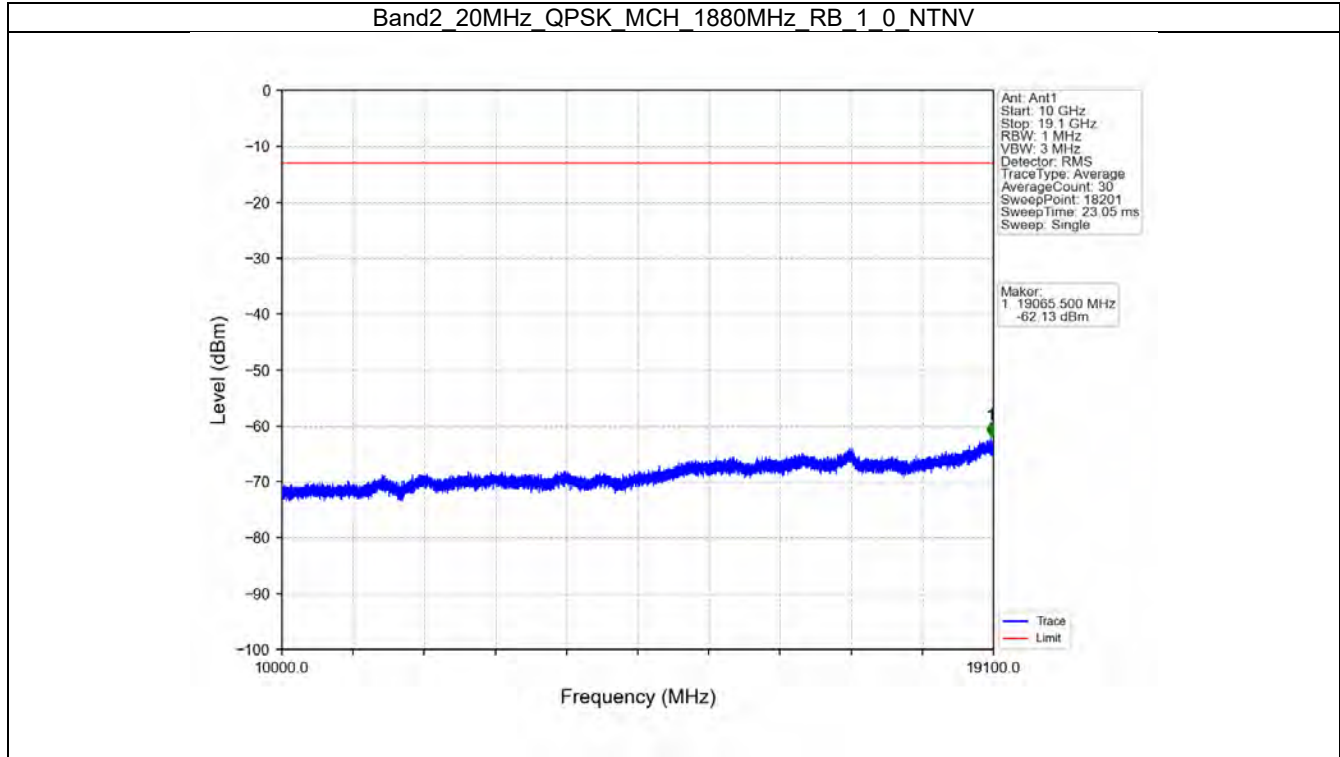
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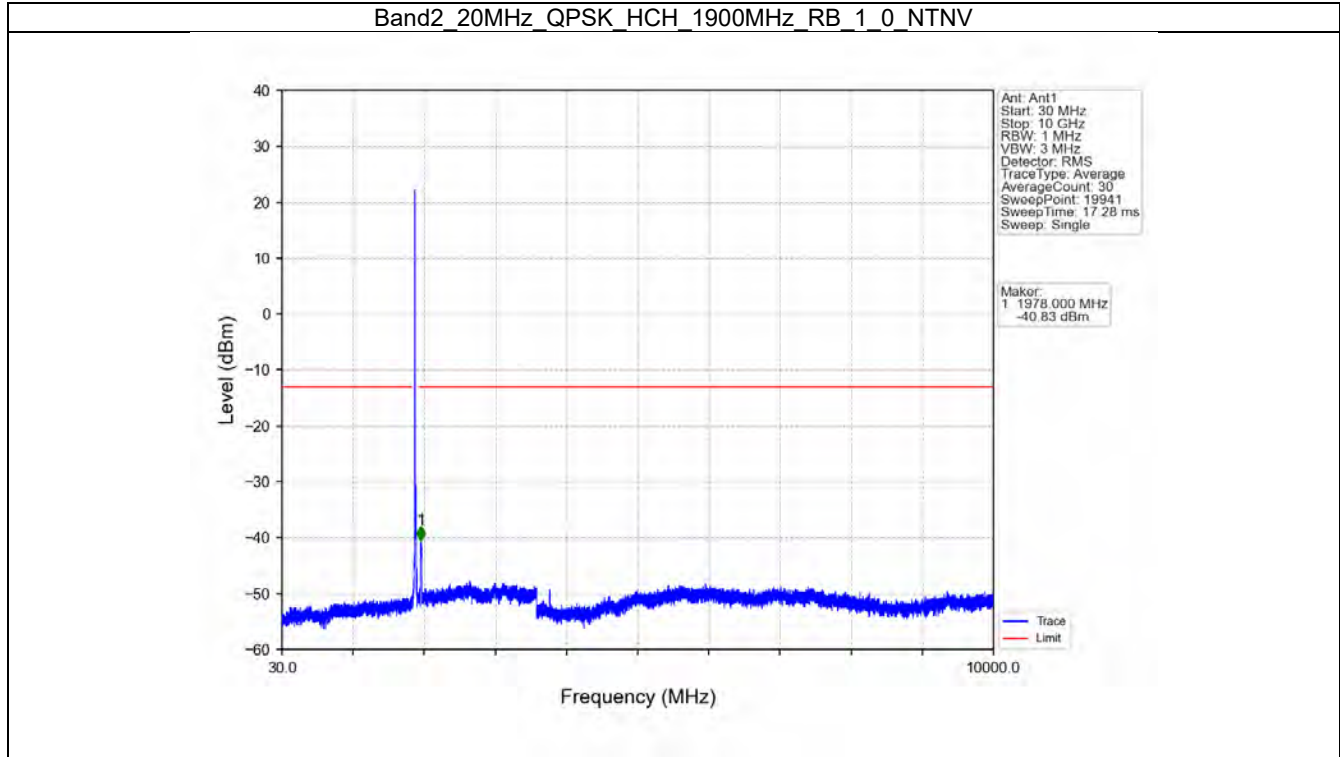
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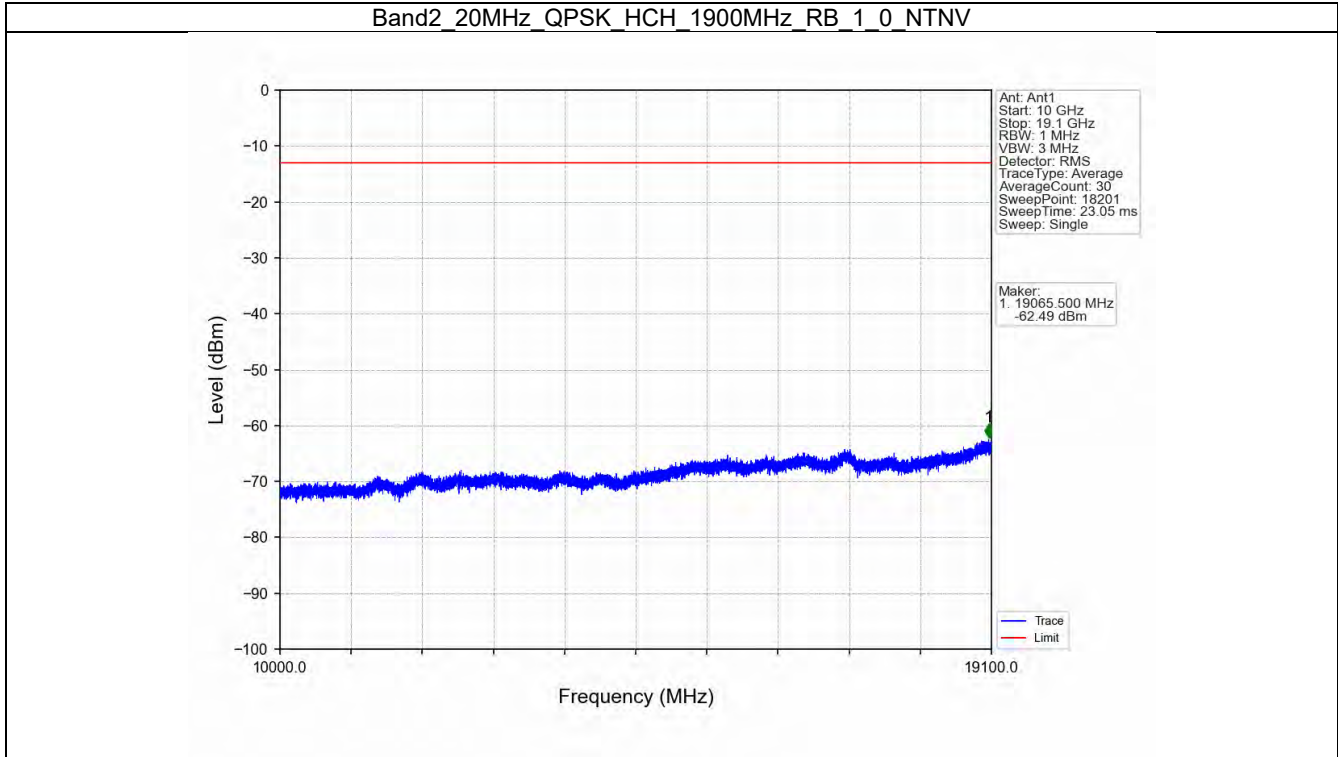
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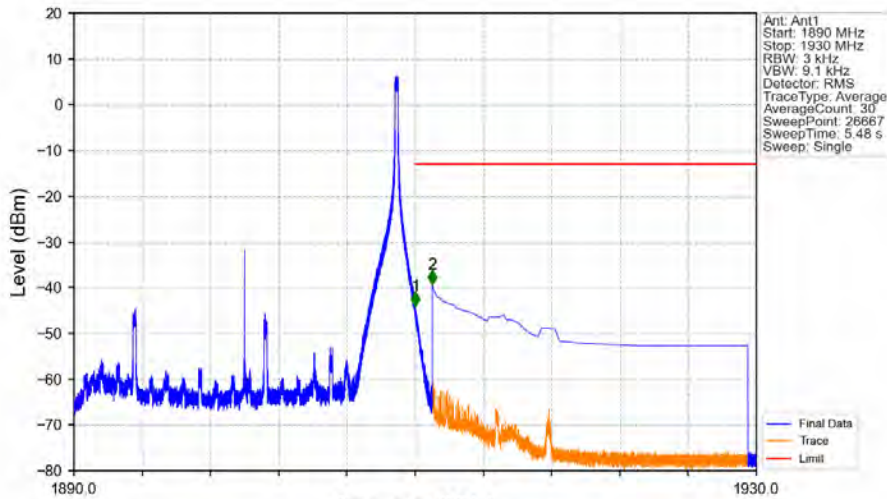
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Band2\_20MHz\_QPSK\_HCH\_1900MHz\_RB\_1\_99\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1890	1910	0.003	/	1	1910.005	-44.02	-13	Pass
1910	1911	0.003	CHP	2	1911.001	-39.24	-13	Pass



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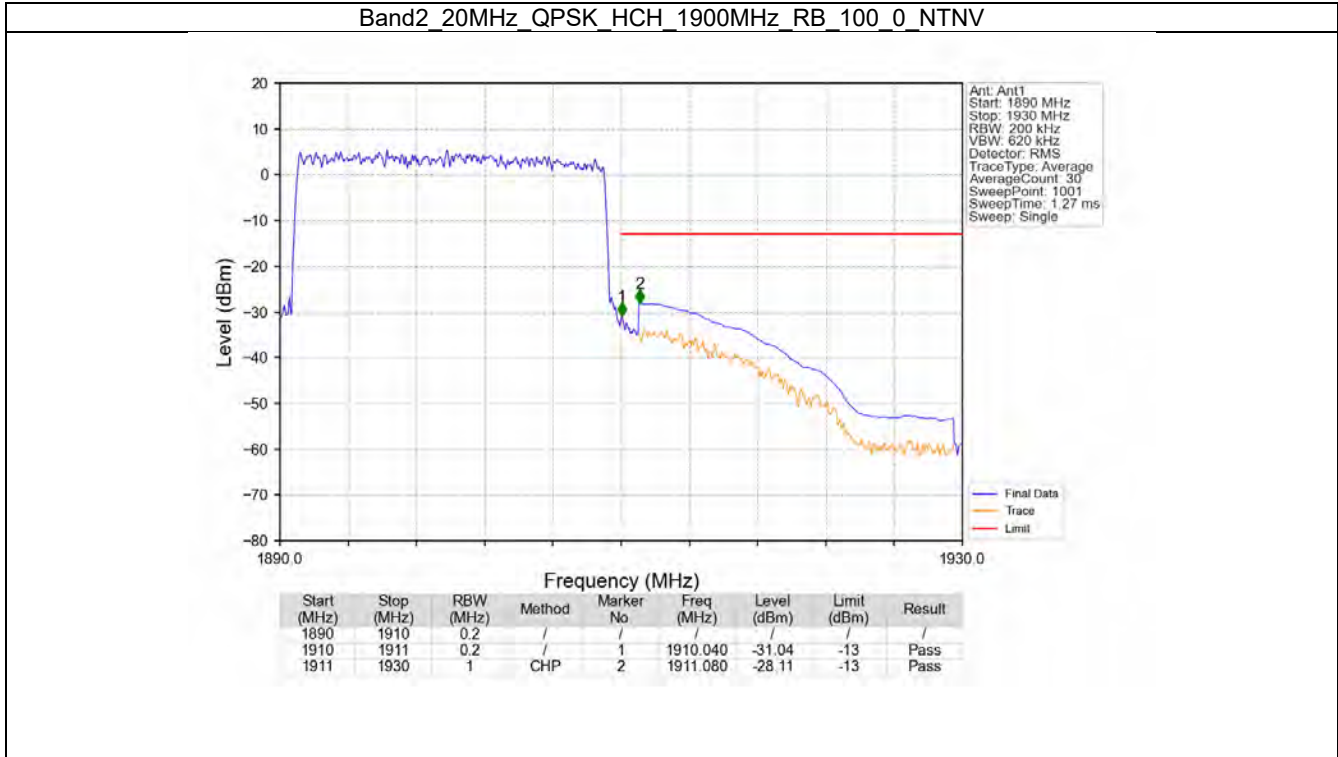
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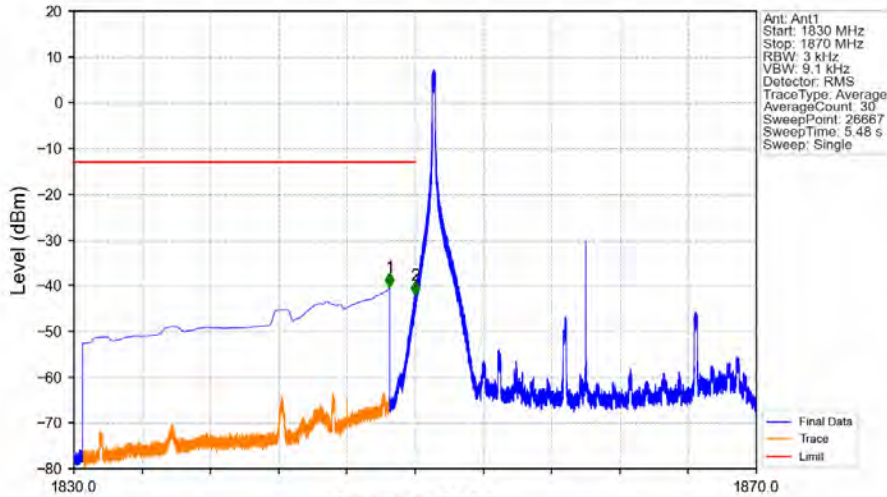
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Band2\_20MHz\_16QAM\_LCH\_1860MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1830	1849	1	CHP	1	1848.500	-40.38	-13	Pass
1849	1850	0.003	/	2	1849.998	-42.14	-13	Pass
1850	1870	0.003	/	/	/	/	/	/



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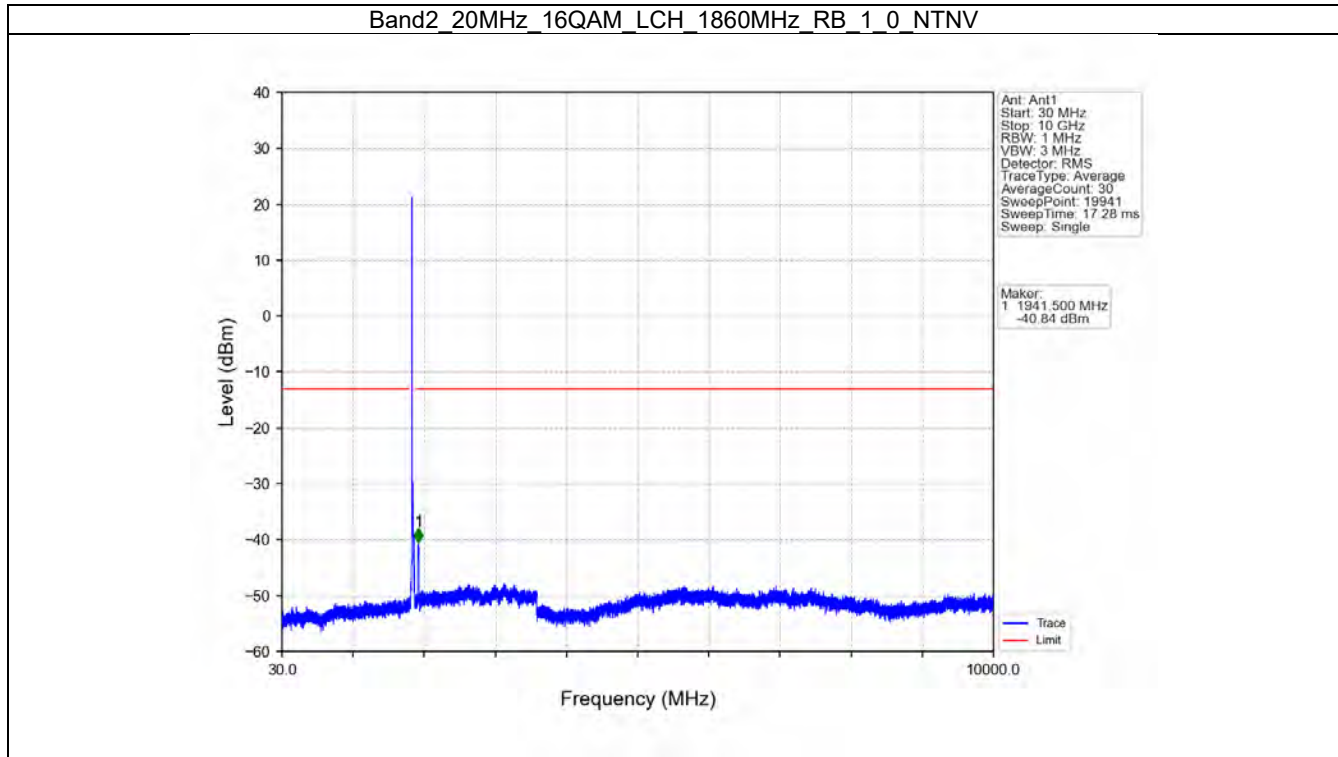


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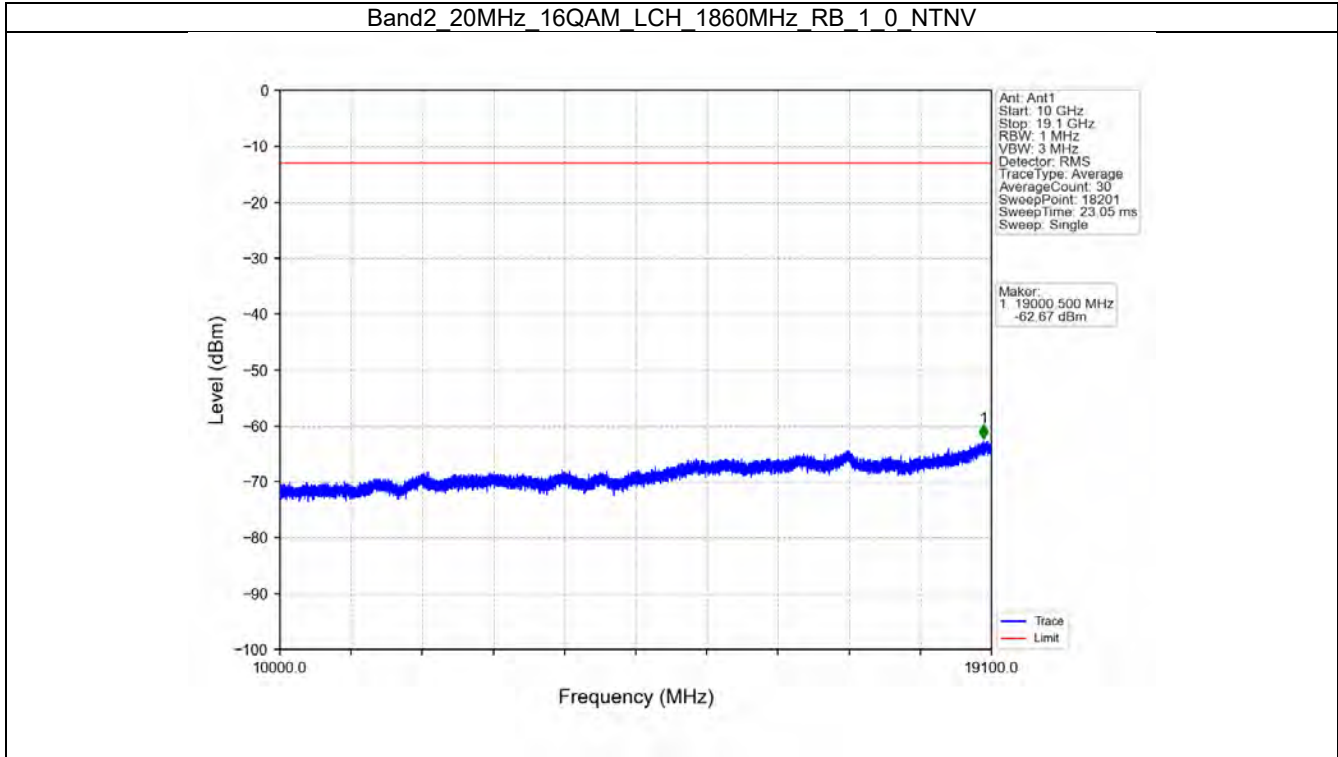
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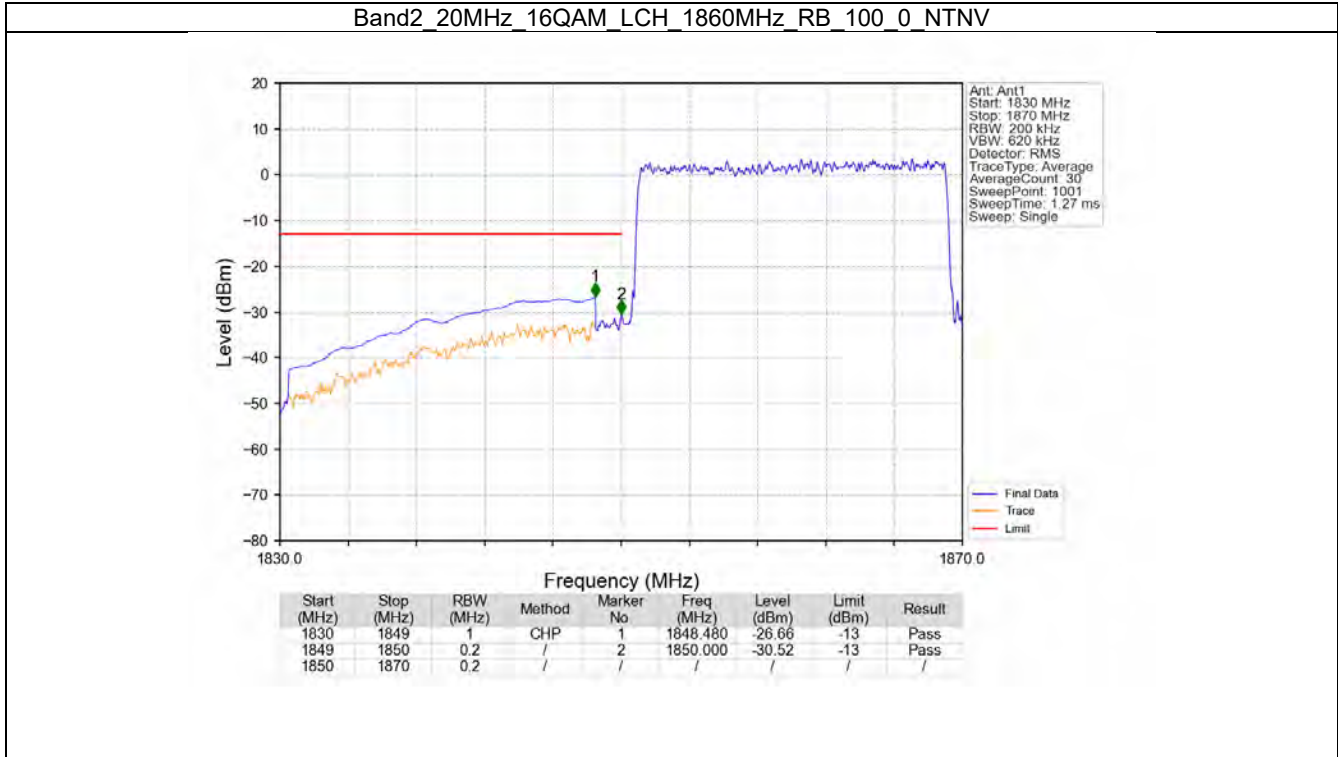
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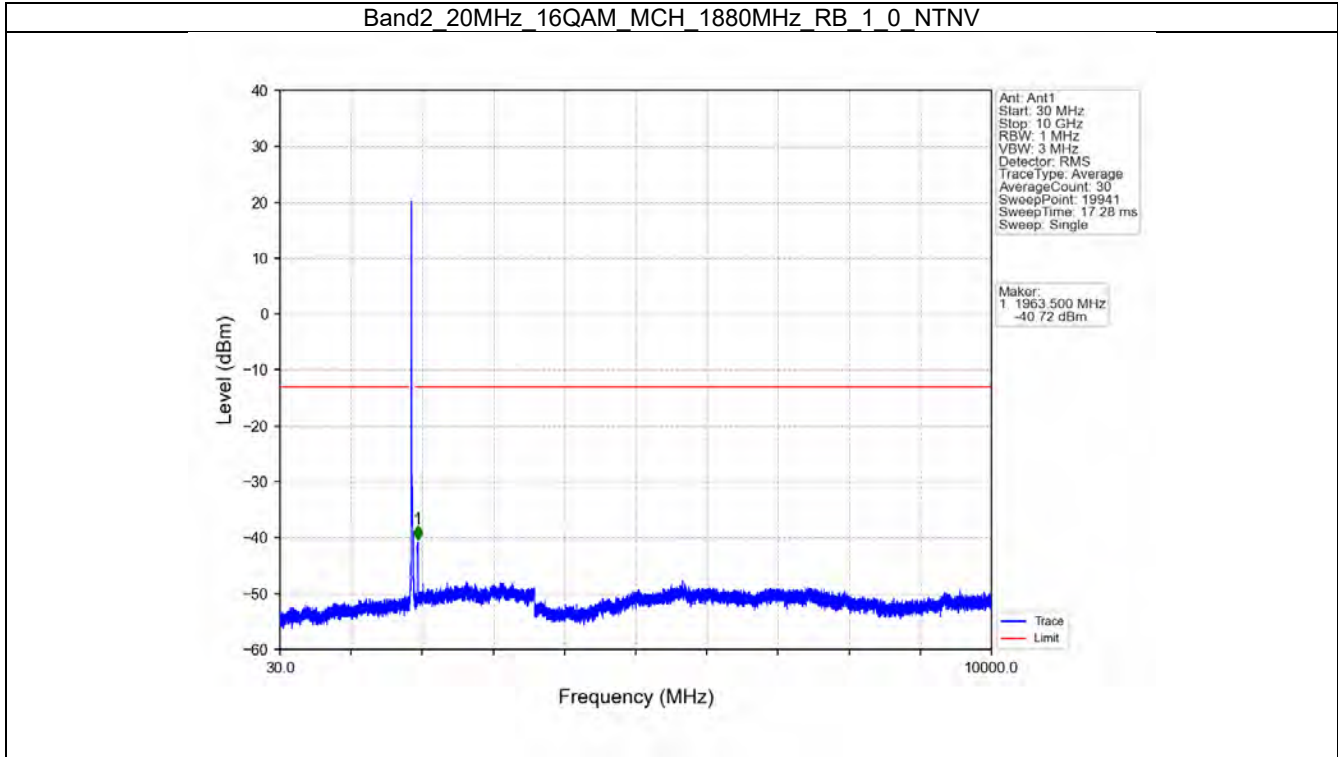
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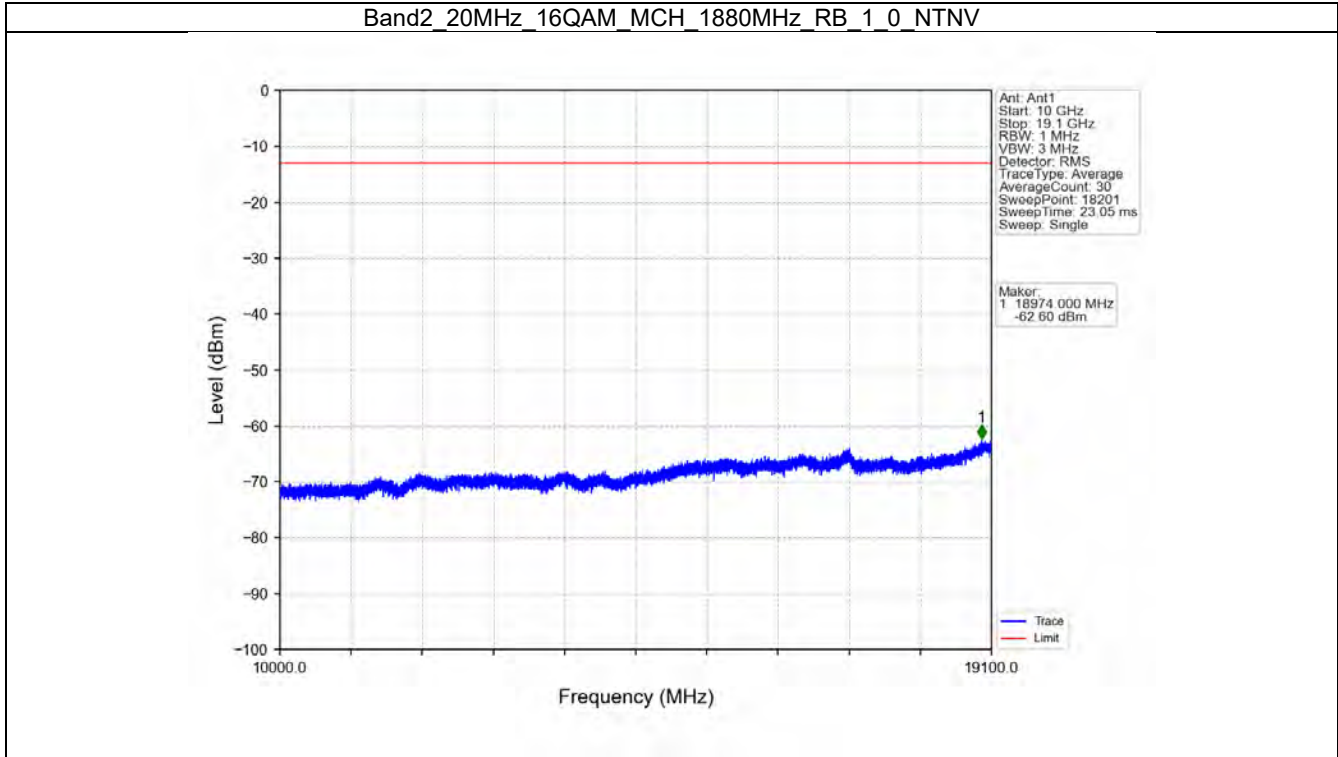
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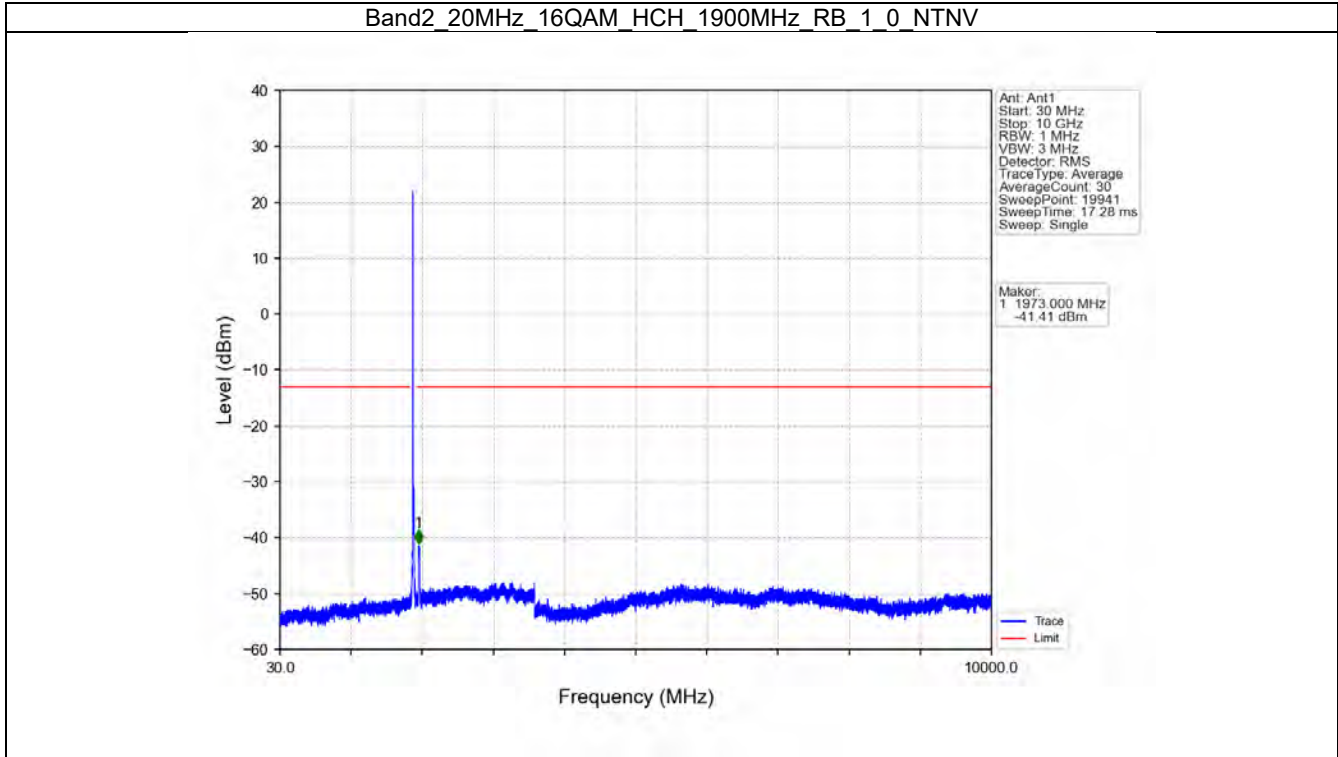
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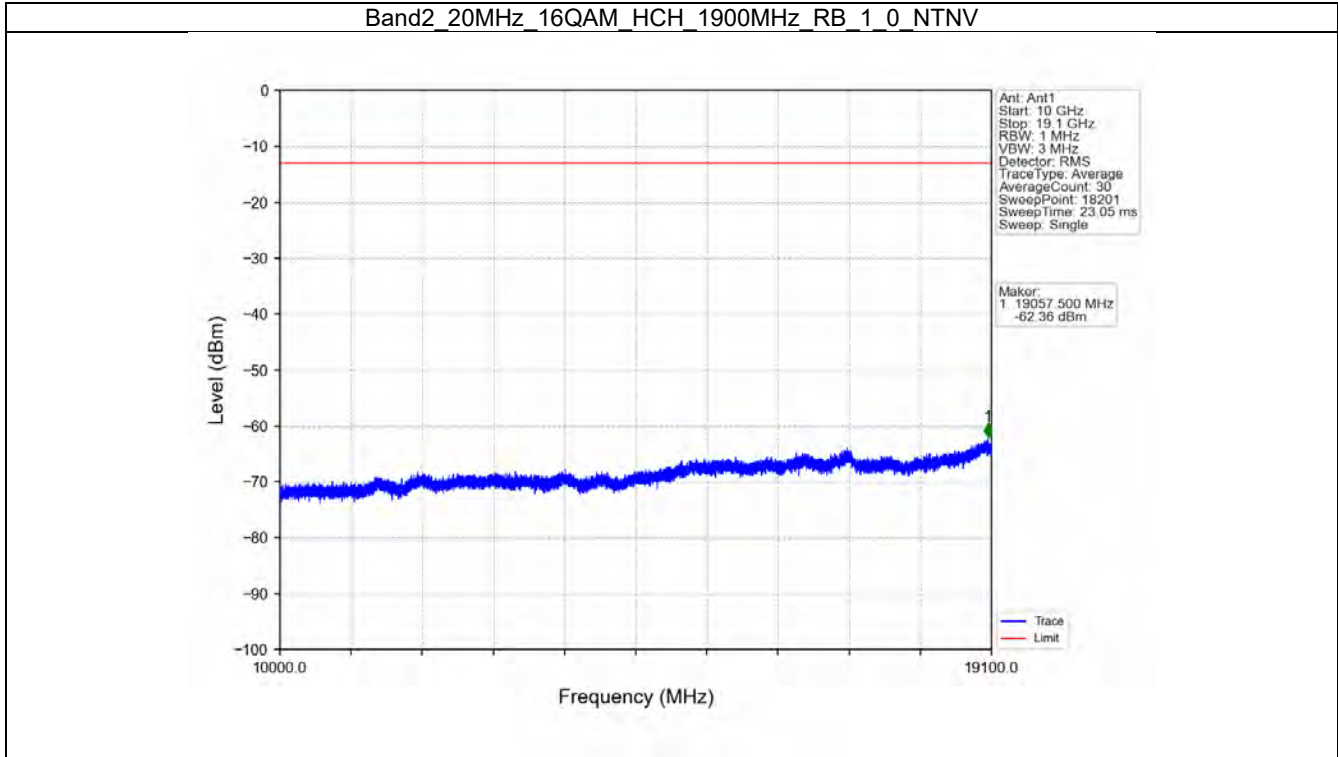
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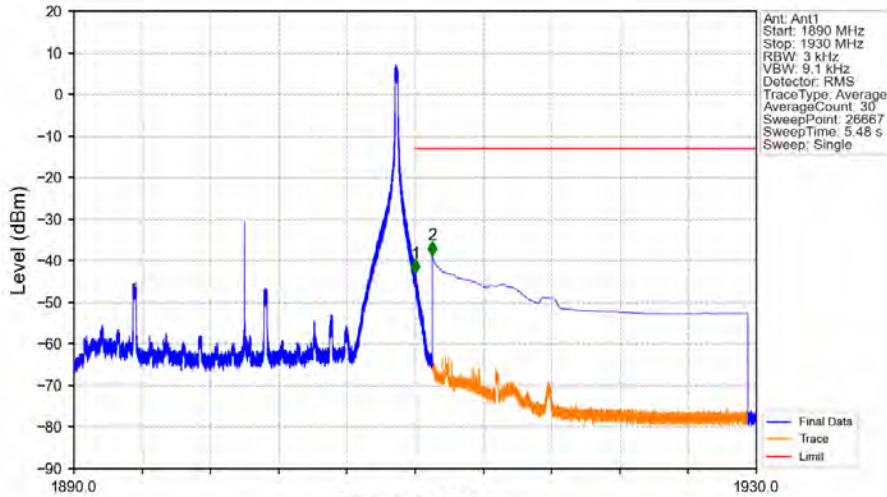
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Band2\_20MHz\_16QAM\_HCH\_1900MHz\_RB\_1\_99\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1890	1910	0.003	/	1	1910.006	-43.14	-13	Pass
1910	1911	0.003	CHP	2	1911.001	-38.72	-13	Pass



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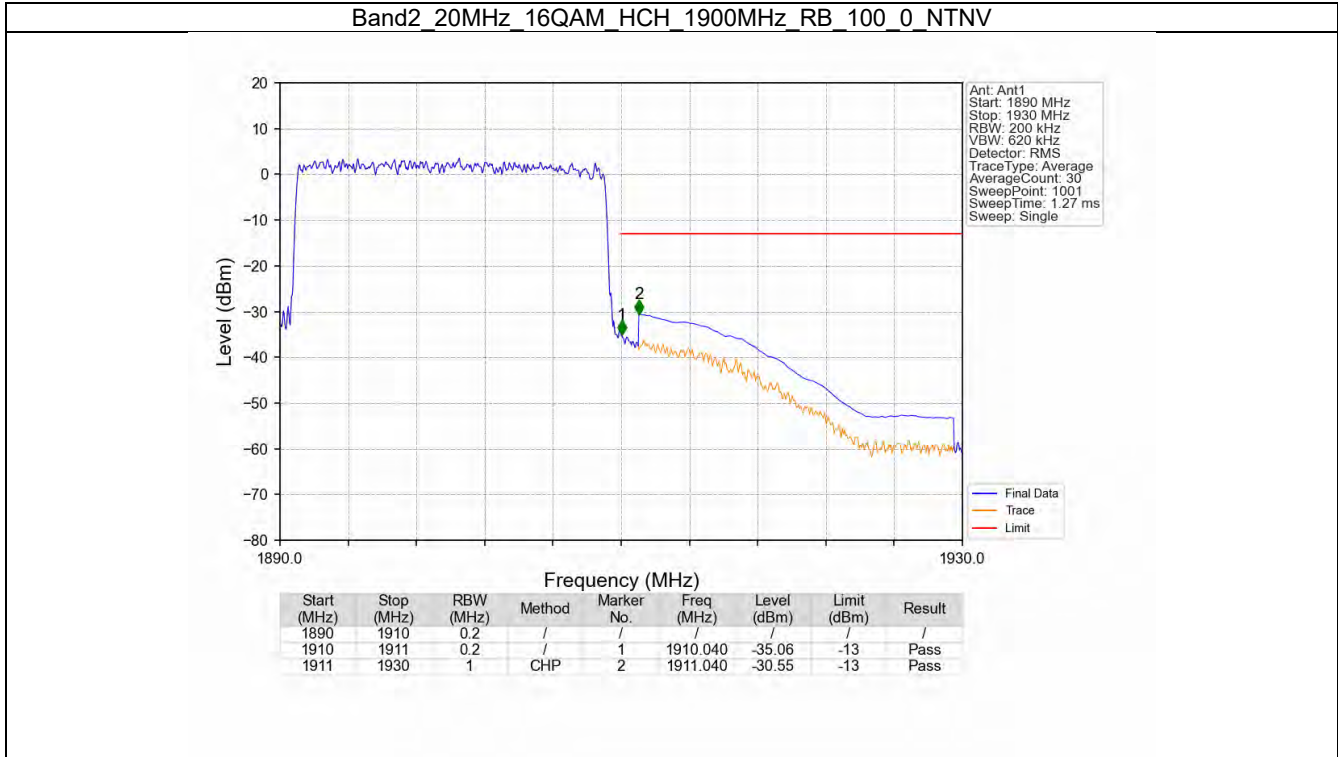
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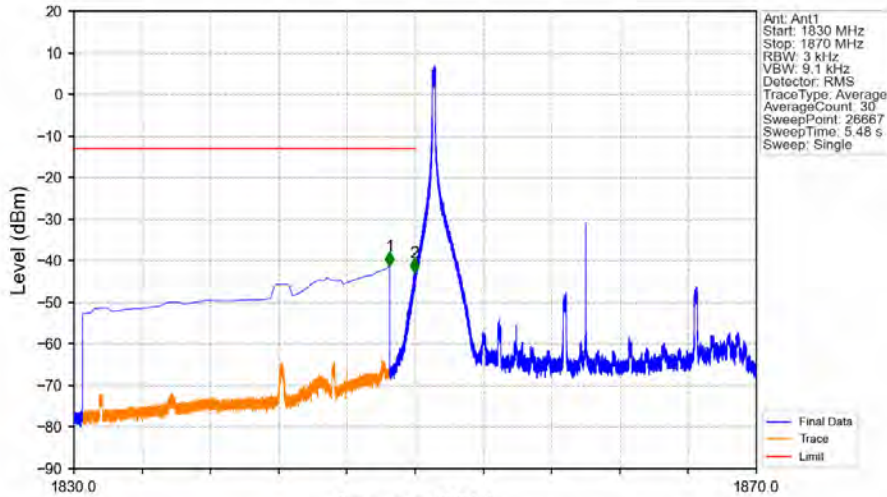




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Band2\_20MHz\_64QAM\_LCH\_1860MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1830	1849	1	CHP	1	1848.498	-41.25	-13	Pass
1849	1850	0.003	/	2	1849.967	-42.91	-13	Pass
1850	1870	0.003	/	/	/	/	/	/



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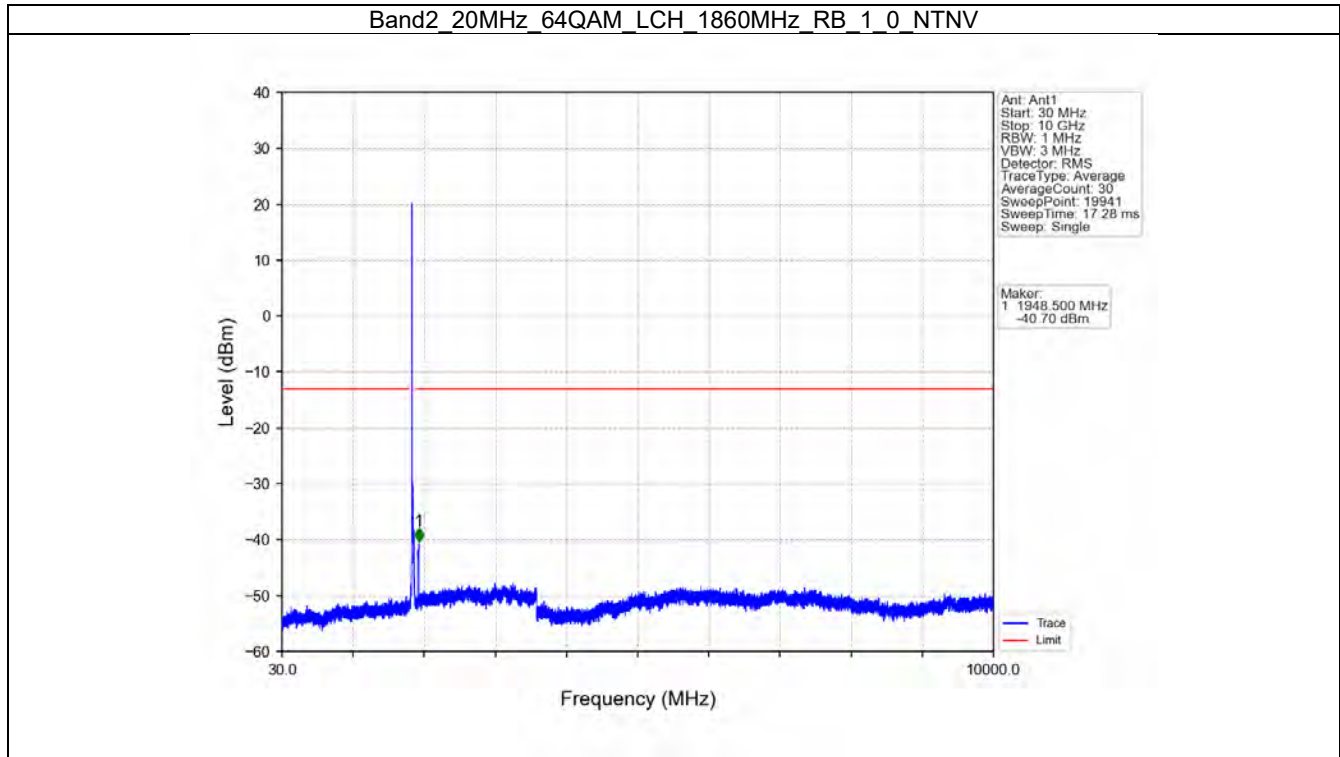


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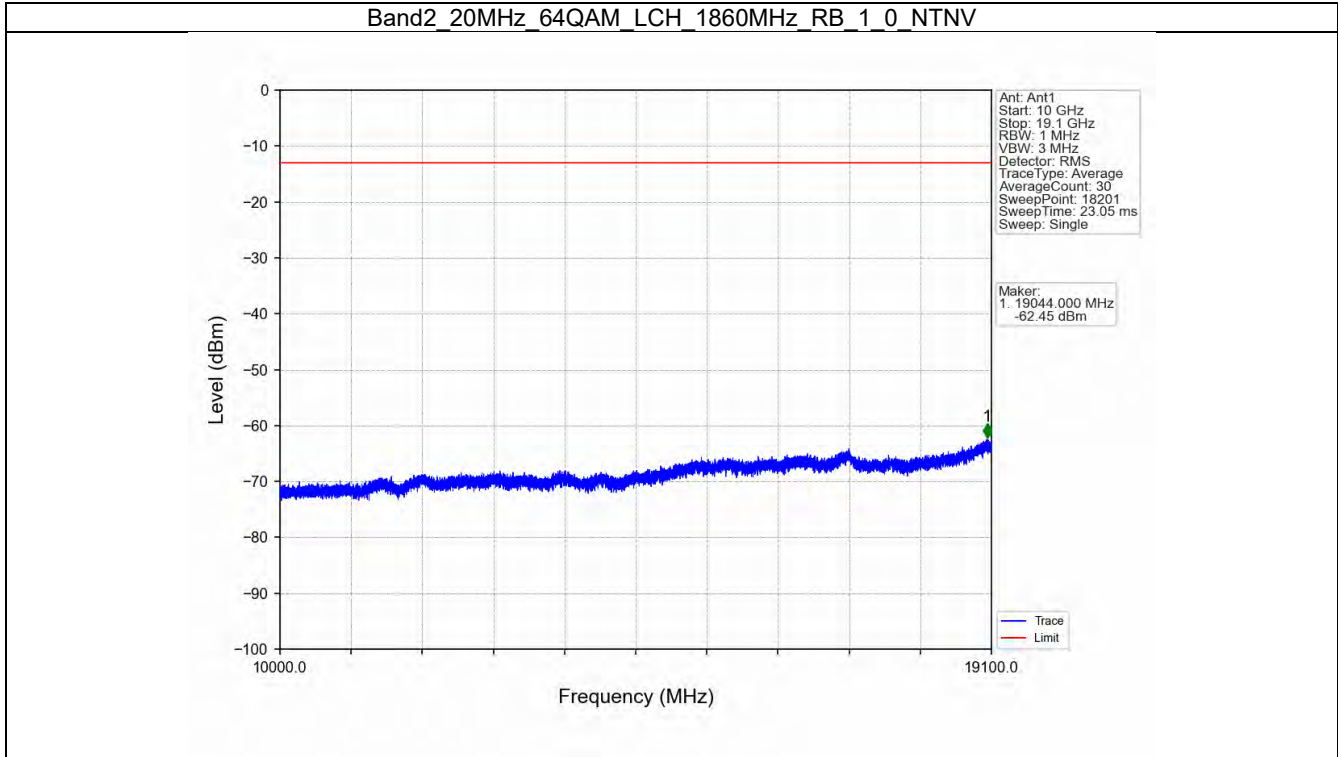
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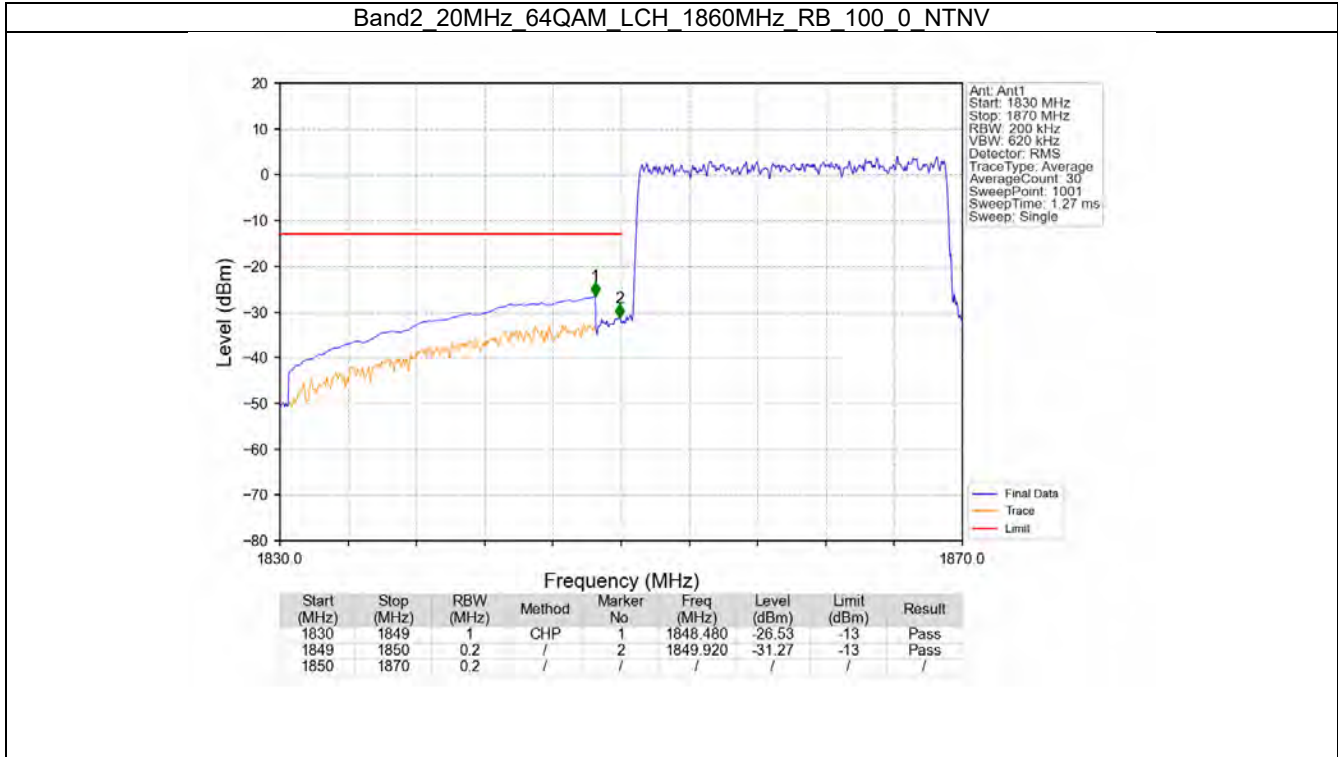
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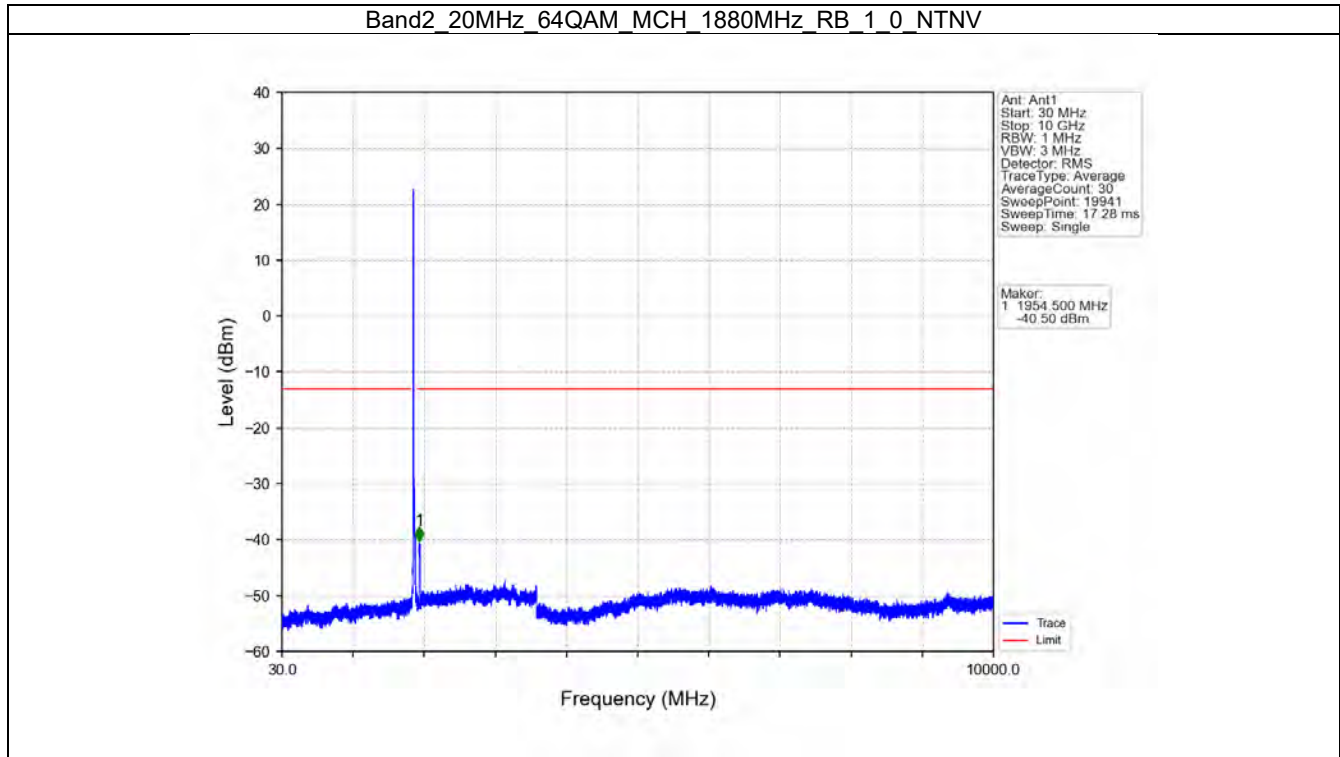


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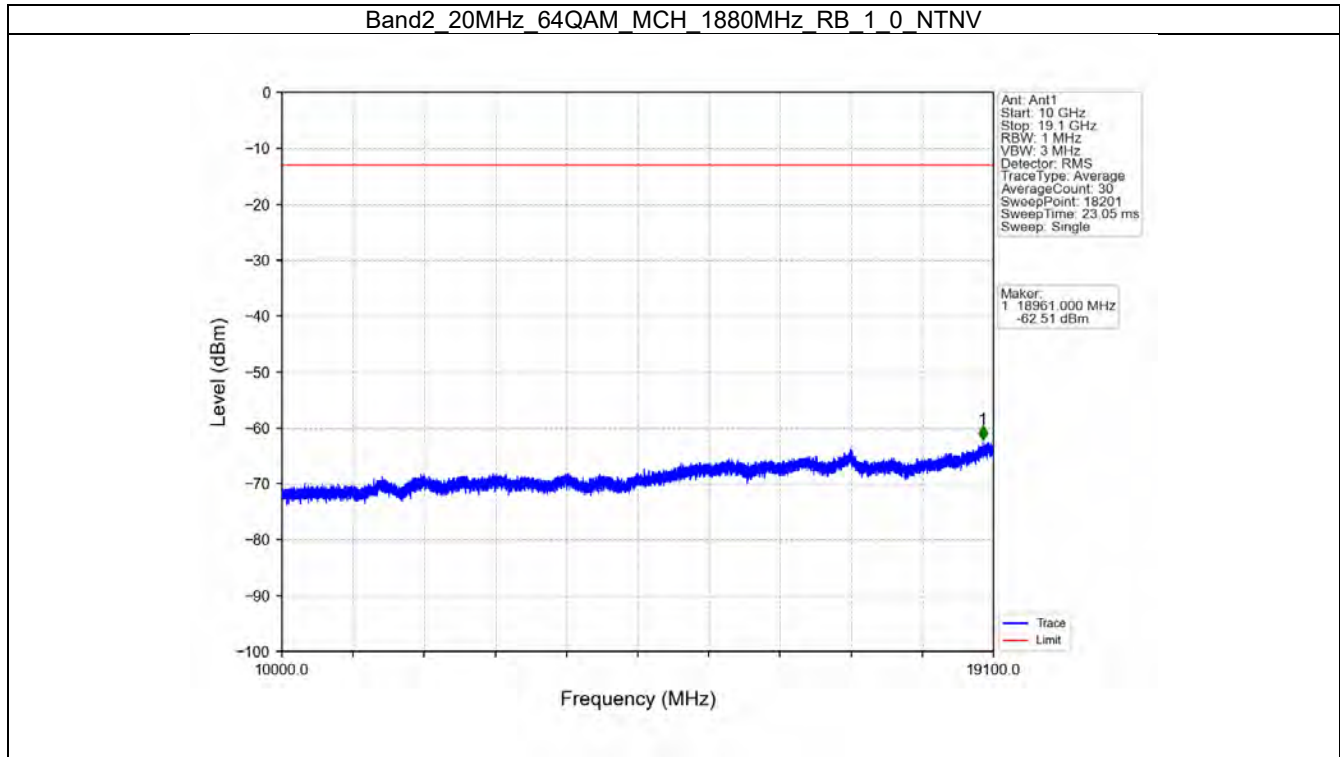


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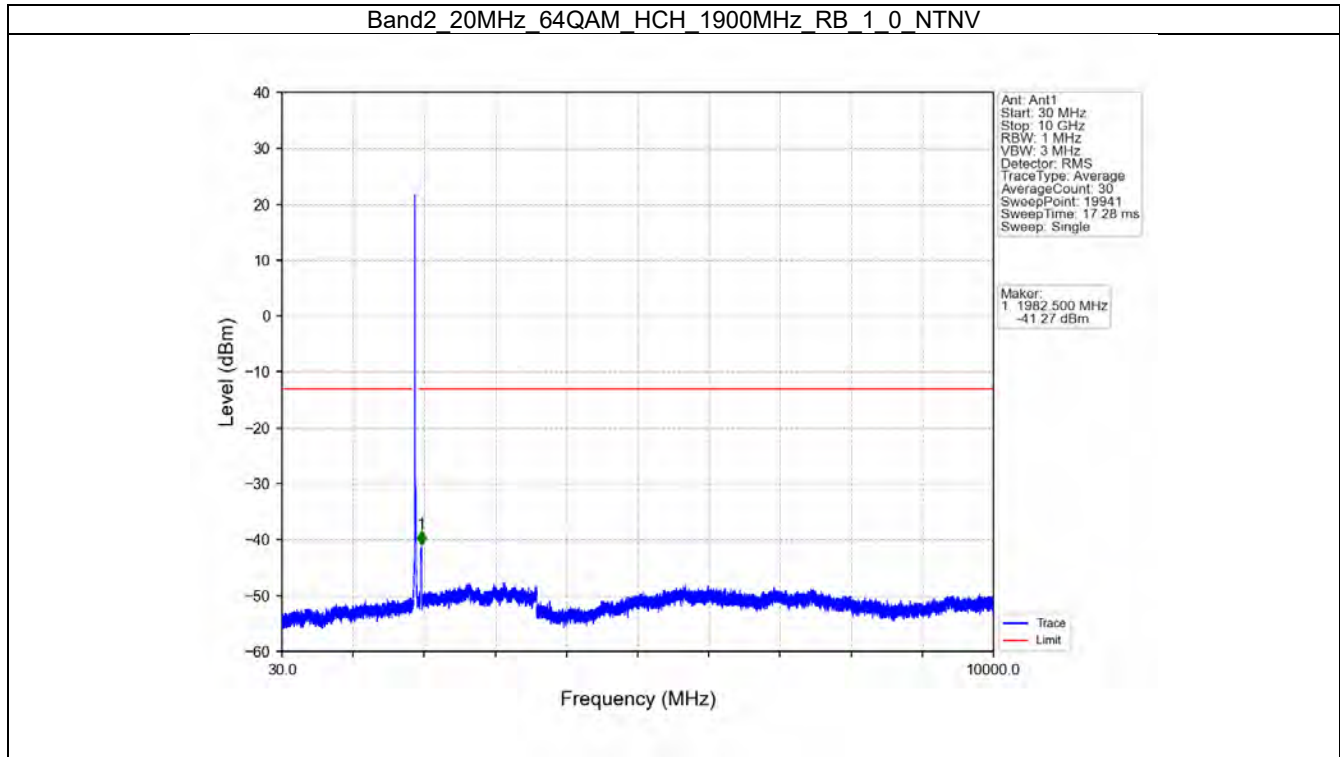


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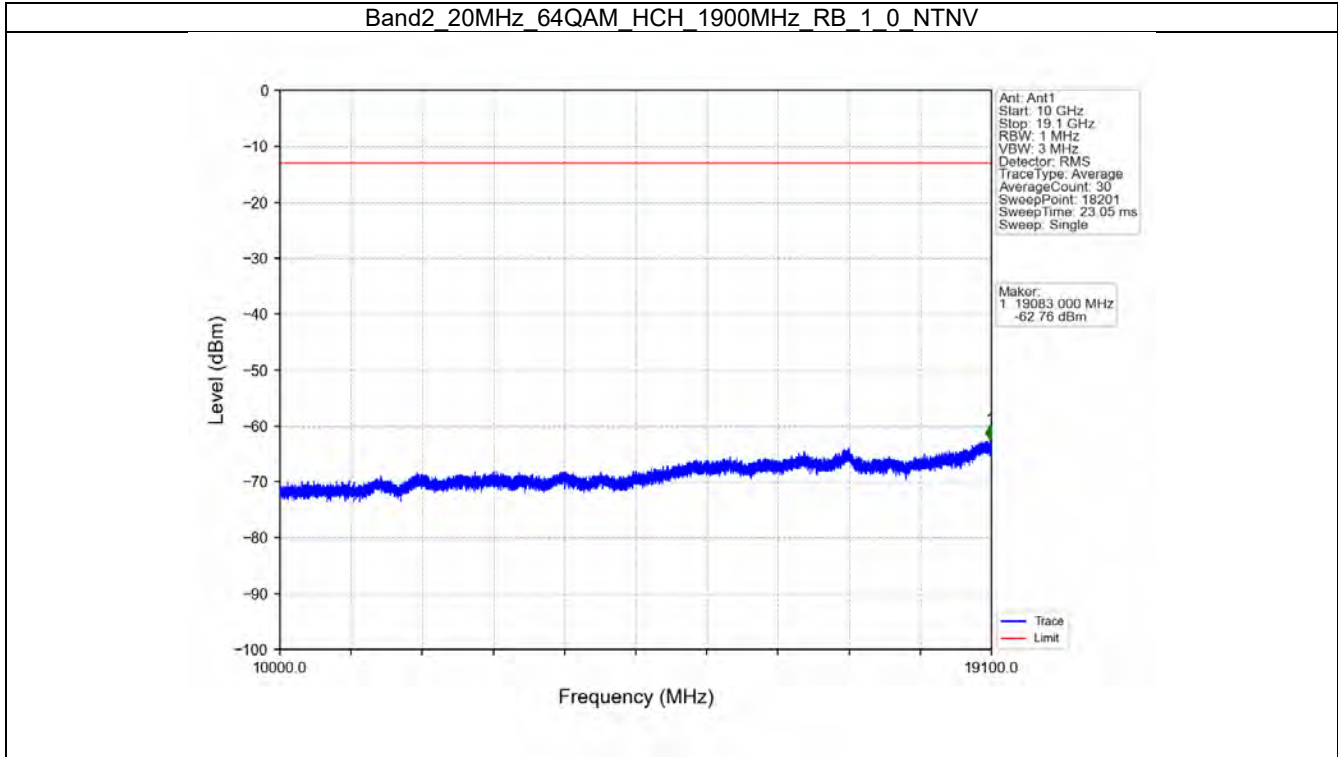
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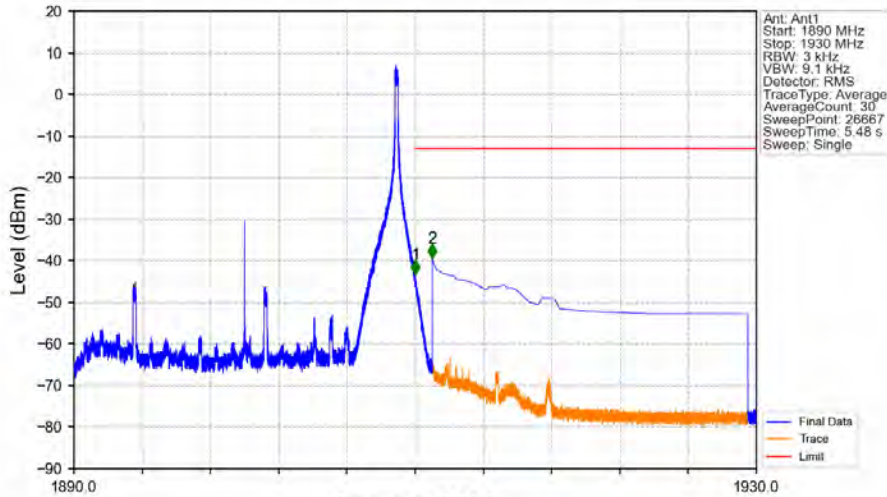




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Band2\_20MHz\_64QAM\_HCH\_1900MHz\_RB\_1\_99\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1890	1910	0.003	/	1	1910.015	-43.29	-13	Pass
1910	1911	0.003	CHP	2	1911.001	-39.40	-13	Pass



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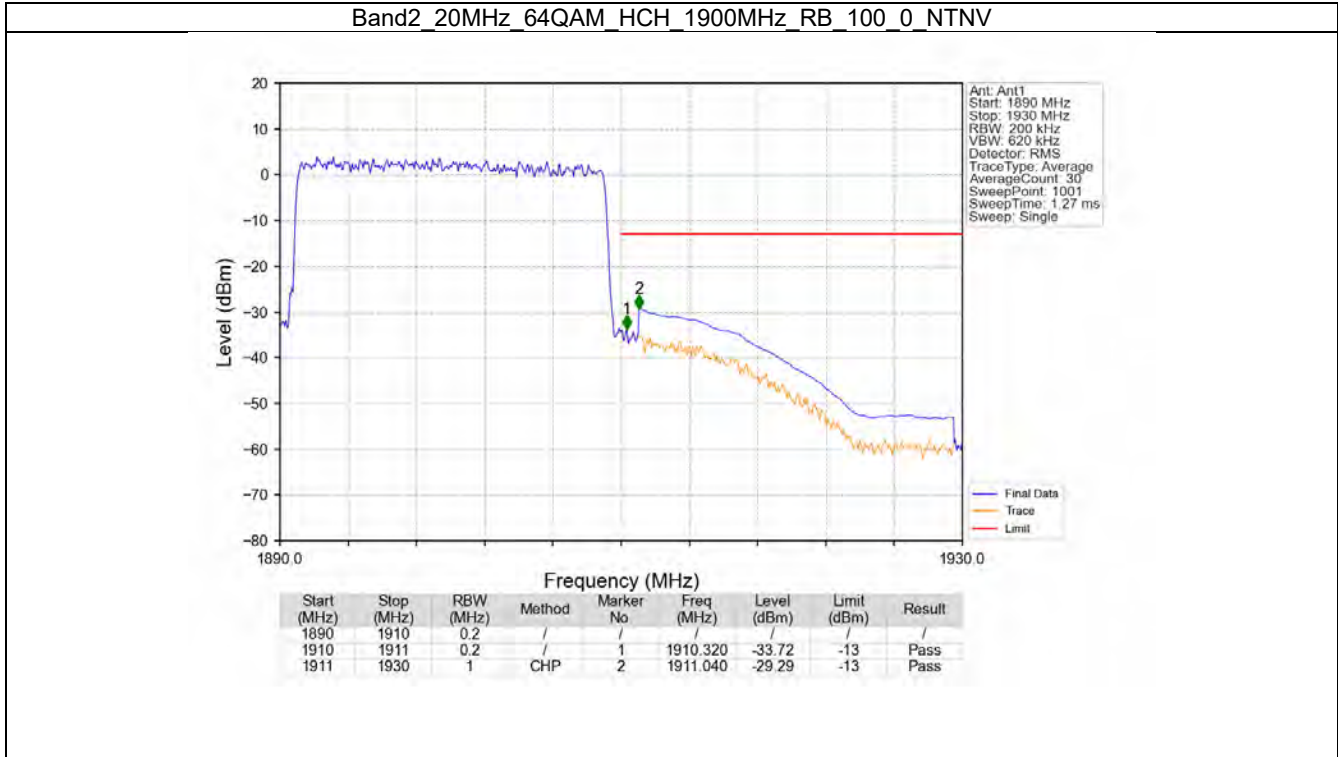
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## 6. Field Strength of Spurious Radiation

Test Band = B2 ANT0\_TM1

Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.0000	54.36	29.02	-47.47	-59.35	-13.00	46.35	Horizontal
2	5553.0000	46.71	32.58	-47.04	-63.01	-13.00	50.01	Horizontal
3	7404.0000	43.07	36.29	-45.07	-60.97	-13.00	47.97	Horizontal
4	9255.0000	40.05	36.69	-42.41	-60.93	-13.00	47.93	Horizontal
5	11106.0000	37.98	39.62	-39.37	-57.03	-13.00	44.03	Horizontal
6	12957.0000	37.54	39.70	-38.62	-56.64	-13.00	43.64	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.0000	52.09	29.02	-47.47	-61.62	-13.00	48.62	Vertical
2	5553.0000	44.76	32.58	-47.04	-64.96	-13.00	51.96	Vertical
3	7404.0000	43.03	36.29	-45.07	-61.01	-13.00	48.01	Vertical
4	9255.0000	40.96	36.69	-42.41	-60.02	-13.00	47.02	Vertical
5	11106.0000	37.32	39.62	-39.37	-57.69	-13.00	44.69	Vertical
6	12957.0000	38.71	39.70	-38.62	-55.47	-13.00	42.47	Vertical



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Test Band = B2 ANT0\_ TM1  
Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.0000	53.15	29.09	-47.37	-60.39	-13.00	47.39	Horizontal
2	5613.0000	46.87	32.55	-46.93	-62.77	-13.00	49.77	Horizontal
3	7484.0000	42.52	36.38	-45.09	-61.45	-13.00	48.45	Horizontal
4	9355.0000	39.76	36.92	-41.98	-60.56	-13.00	47.56	Horizontal
5	11226.0000	37.68	39.65	-39.00	-56.93	-13.00	43.93	Horizontal
6	13097.0000	36.62	39.87	-38.84	-57.61	-13.00	44.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.0000	47.91	29.09	-47.37	-65.63	-13.00	52.63	Vertical
2	5613.0000	44.02	32.55	-46.93	-65.62	-13.00	52.62	Vertical
3	7484.0000	43.42	36.38	-45.09	-60.55	-13.00	47.55	Vertical
4	9355.0000	40.22	36.92	-41.98	-60.10	-13.00	47.10	Vertical
5	11226.0000	37.27	39.65	-39.00	-57.34	-13.00	44.34	Vertical
6	13097.0000	37.51	39.87	-38.84	-56.72	-13.00	43.72	Vertical



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Test Band = B2 ANT0\_ TM1  
Test Channel = high

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.0000	44.20	29.15	-47.26	-69.17	-13.00	56.17	Horizontal
2	5673.0000	45.36	32.53	-46.79	-64.16	-13.00	51.16	Horizontal
3	7564.0000	42.95	36.37	-44.79	-60.73	-13.00	47.73	Horizontal
4	9455.0000	39.27	37.15	-41.78	-60.62	-13.00	47.62	Horizontal
5	11346.0000	36.99	39.67	-39.06	-57.66	-13.00	44.66	Horizontal
6	13237.0000	36.61	40.13	-38.33	-56.85	-13.00	43.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.0000	44.30	29.15	-47.26	-69.07	-13.00	56.07	Vertical
2	5673.0000	43.87	32.53	-46.79	-65.65	-13.00	52.65	Vertical
3	7564.0000	42.76	36.37	-44.79	-60.92	-13.00	47.92	Vertical
4	9455.0000	39.21	37.15	-41.78	-60.68	-13.00	47.68	Vertical
5	11346.0000	37.06	39.67	-39.06	-57.59	-13.00	44.59	Vertical
6	13237.0000	38.69	40.13	-38.33	-54.77	-13.00	41.77	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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