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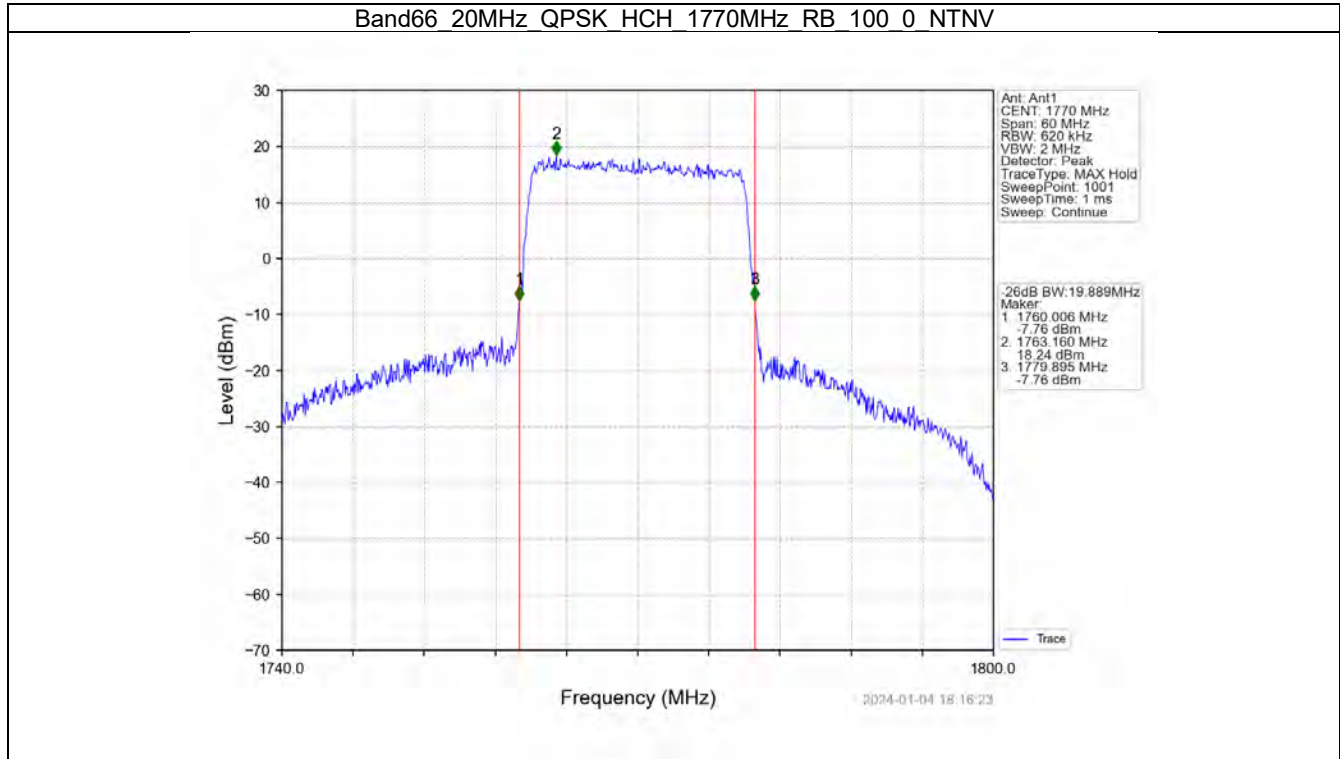
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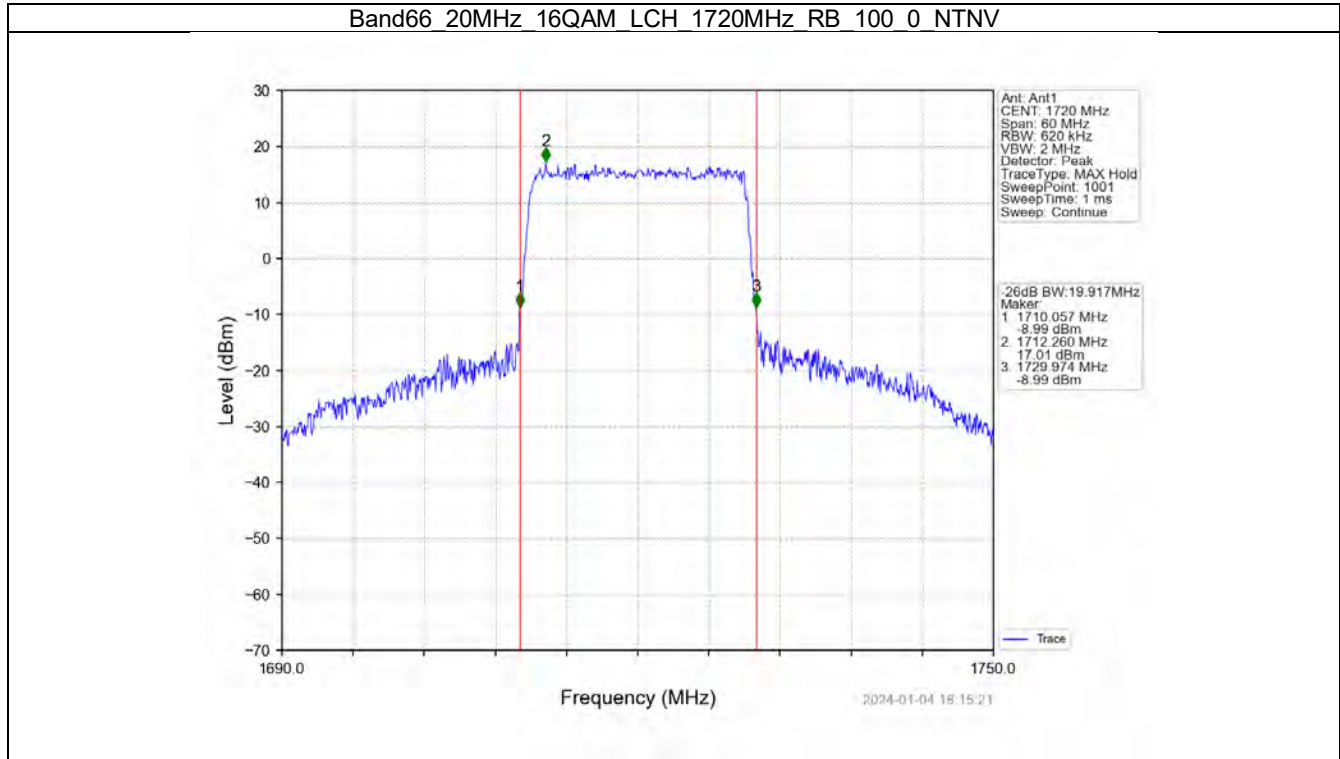


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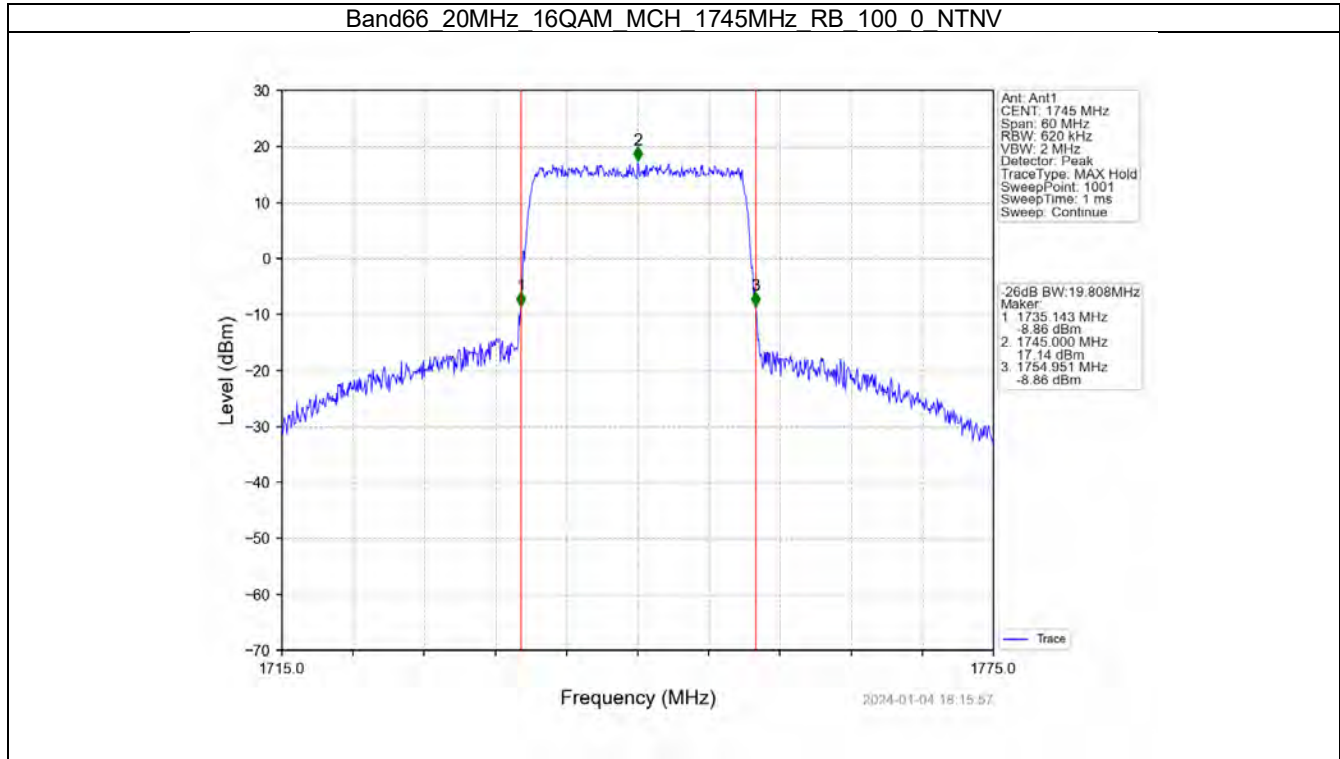
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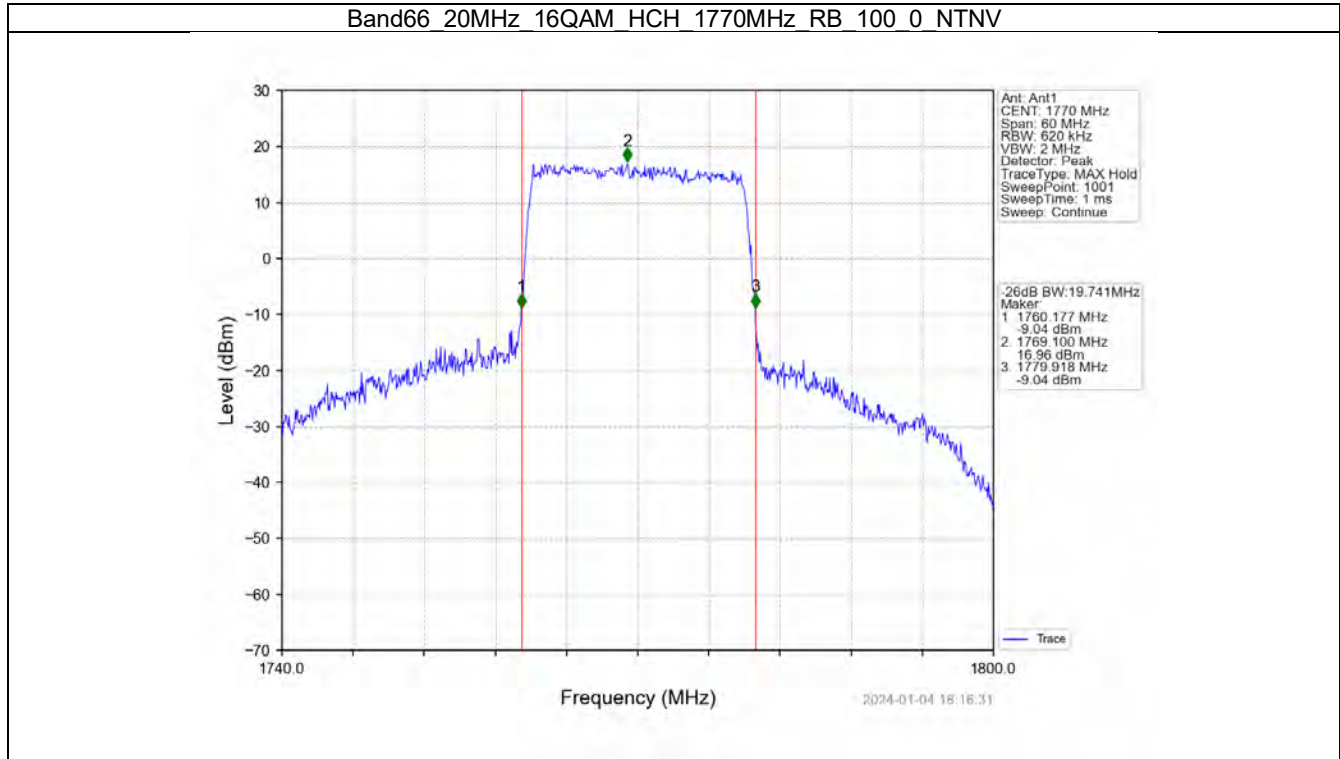
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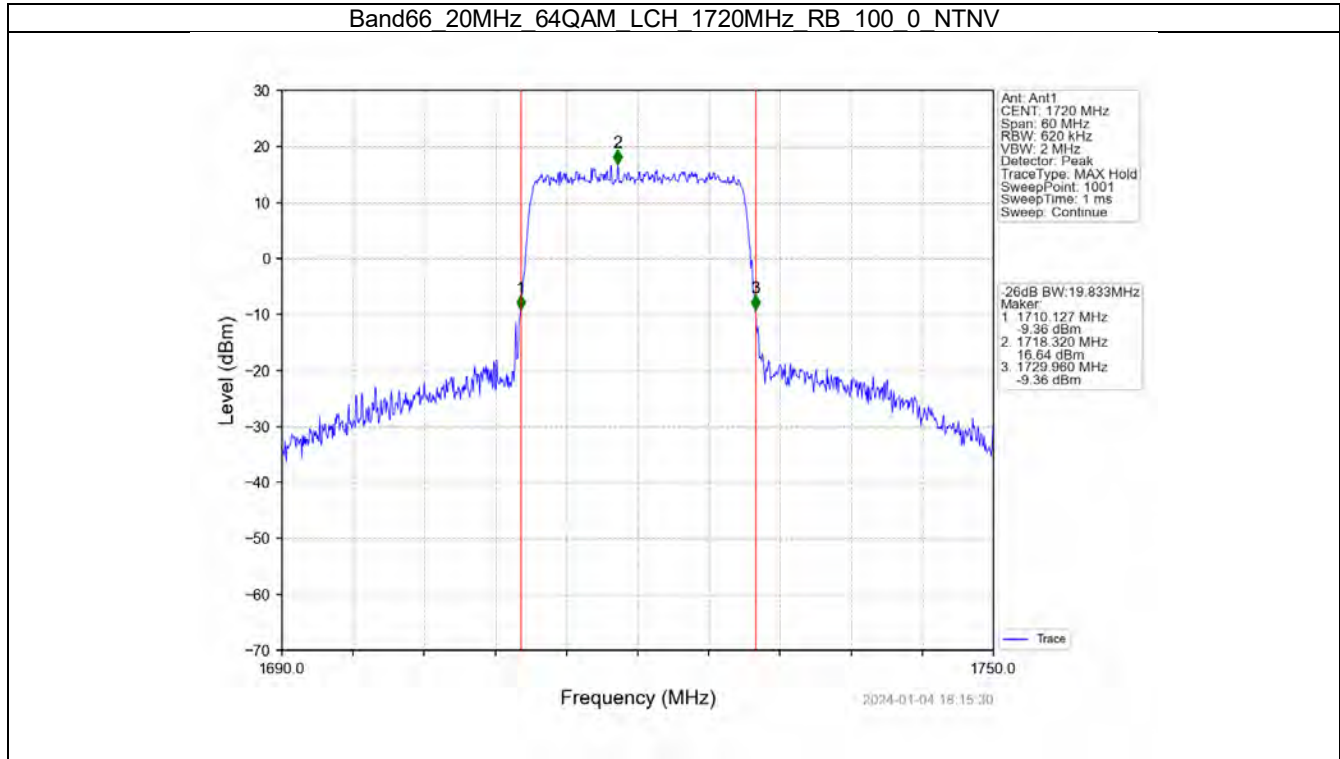


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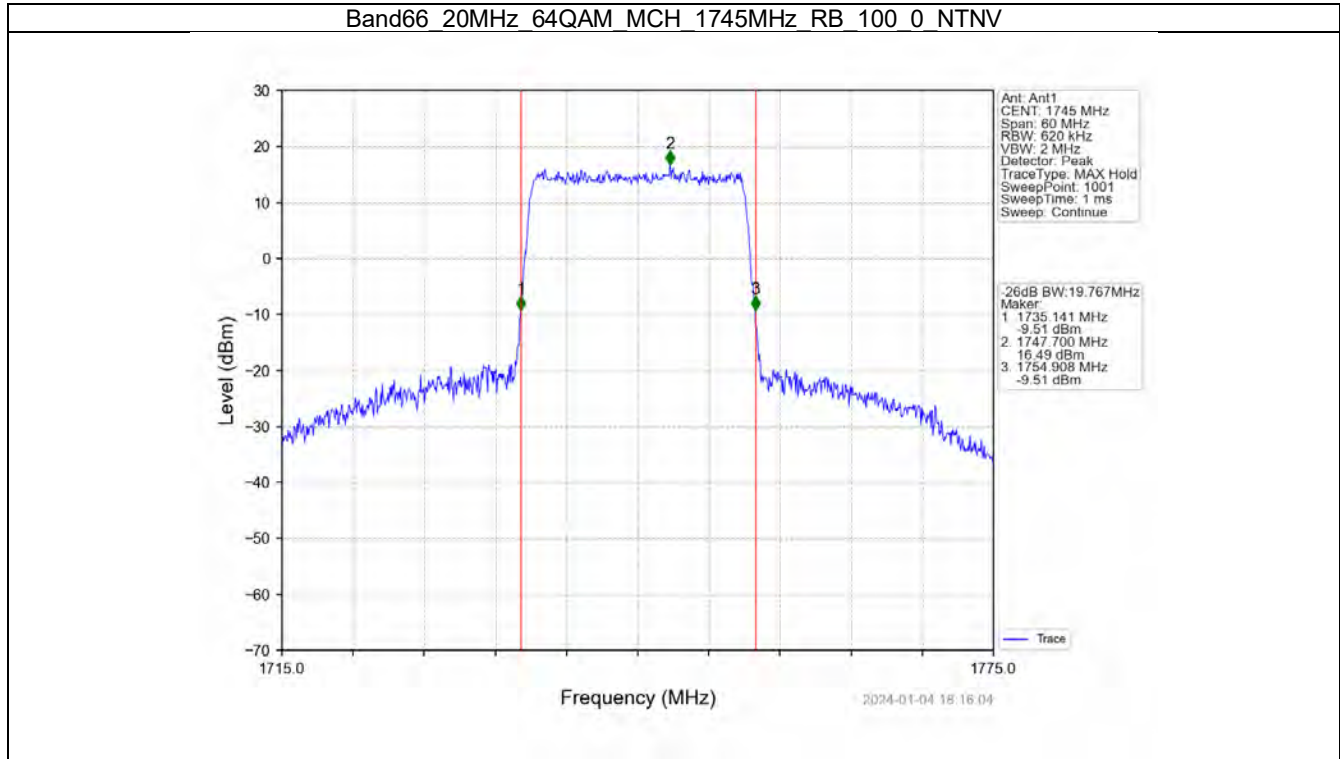
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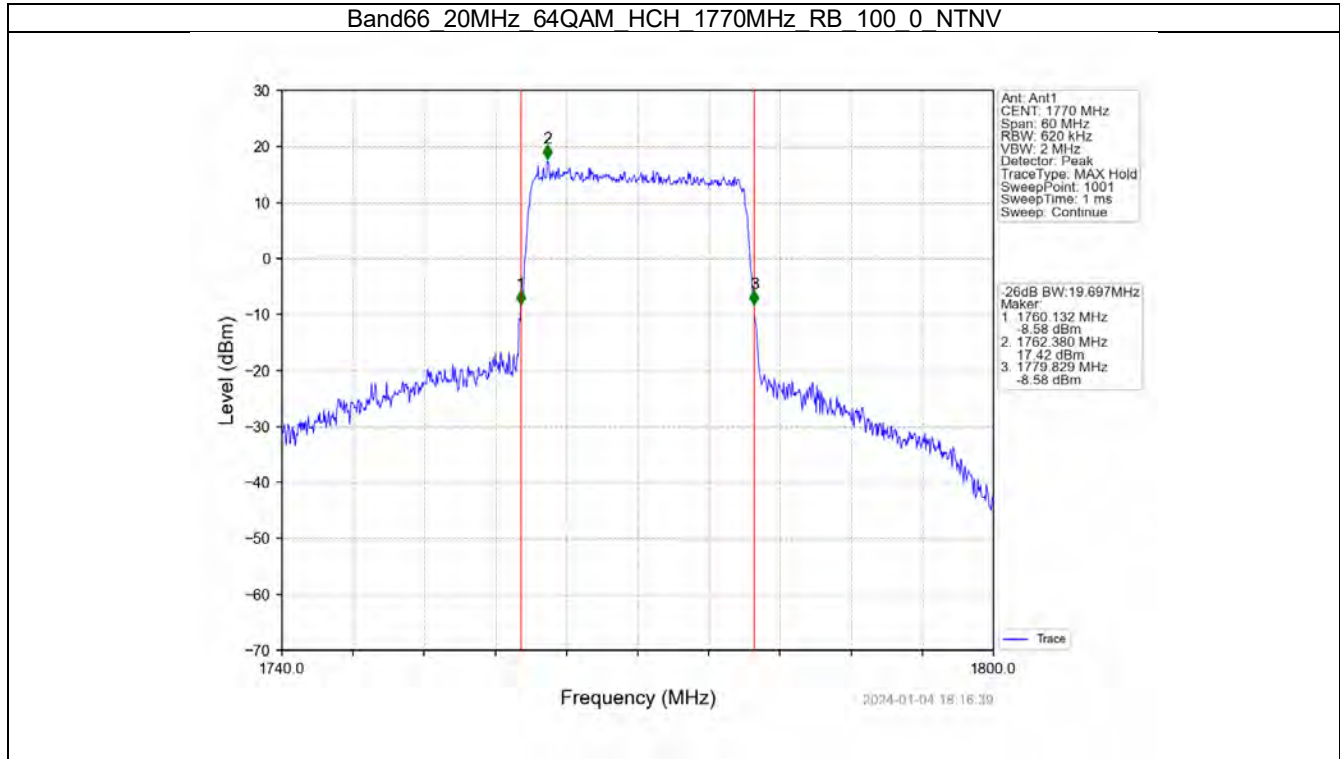
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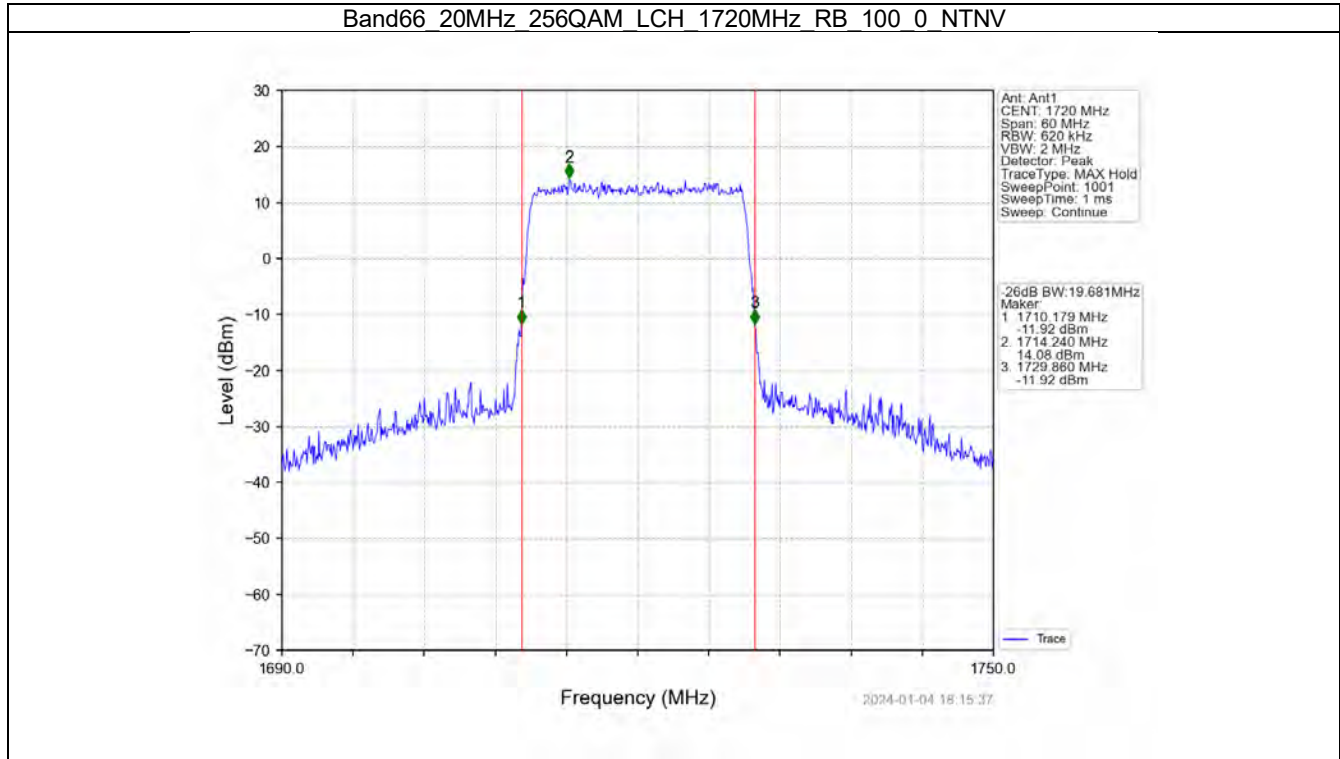
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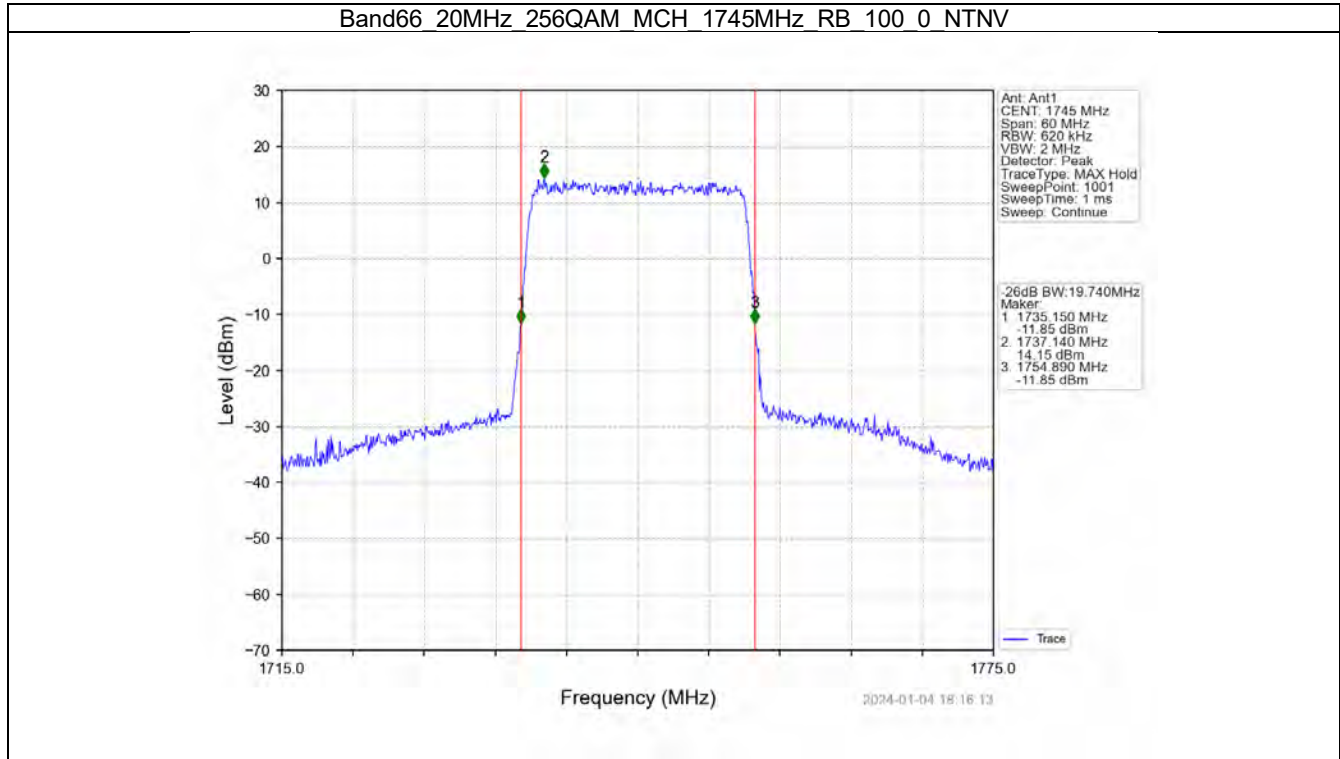
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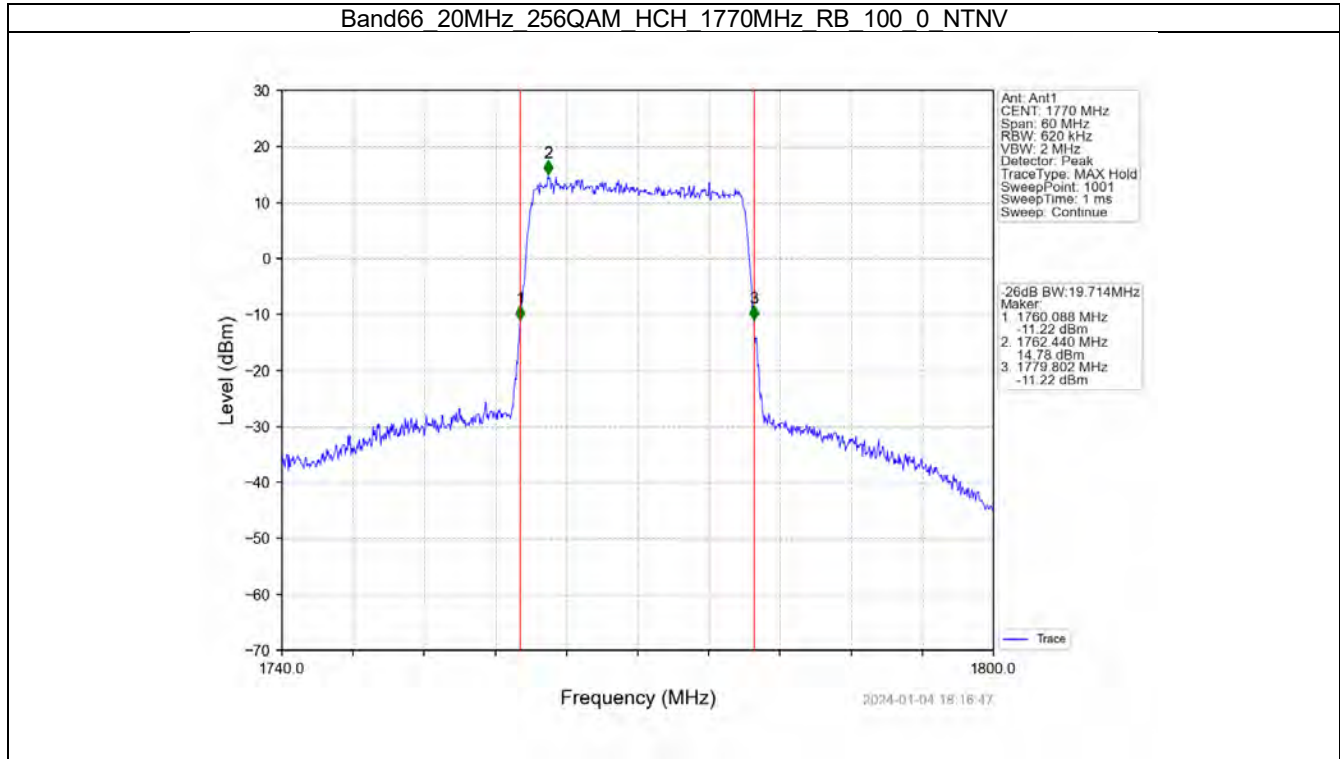
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4. Peak-Average Ratio

4.1 B66_1.4MHz

4.1.1 Test Result

Band: 66 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.13	<=13	Pass
	1745	6	0	4.95	<=13	Pass
	1779.3	6	0	5.14	<=13	Pass
16QAM	1710.7	6	0	5.88	<=13	Pass
	1745	6	0	5.83	<=13	Pass
	1779.3	6	0	5.94	<=13	Pass
64QAM	1710.7	6	0	6.33	<=13	Pass
	1745	6	0	6.05	<=13	Pass
	1779.3	6	0	6.54	<=13	Pass
256QAM	1710.7	6	0	6.87	<=13	Pass
	1745	6	0	6.59	<=13	Pass
	1779.3	6	0	6.84	<=13	Pass



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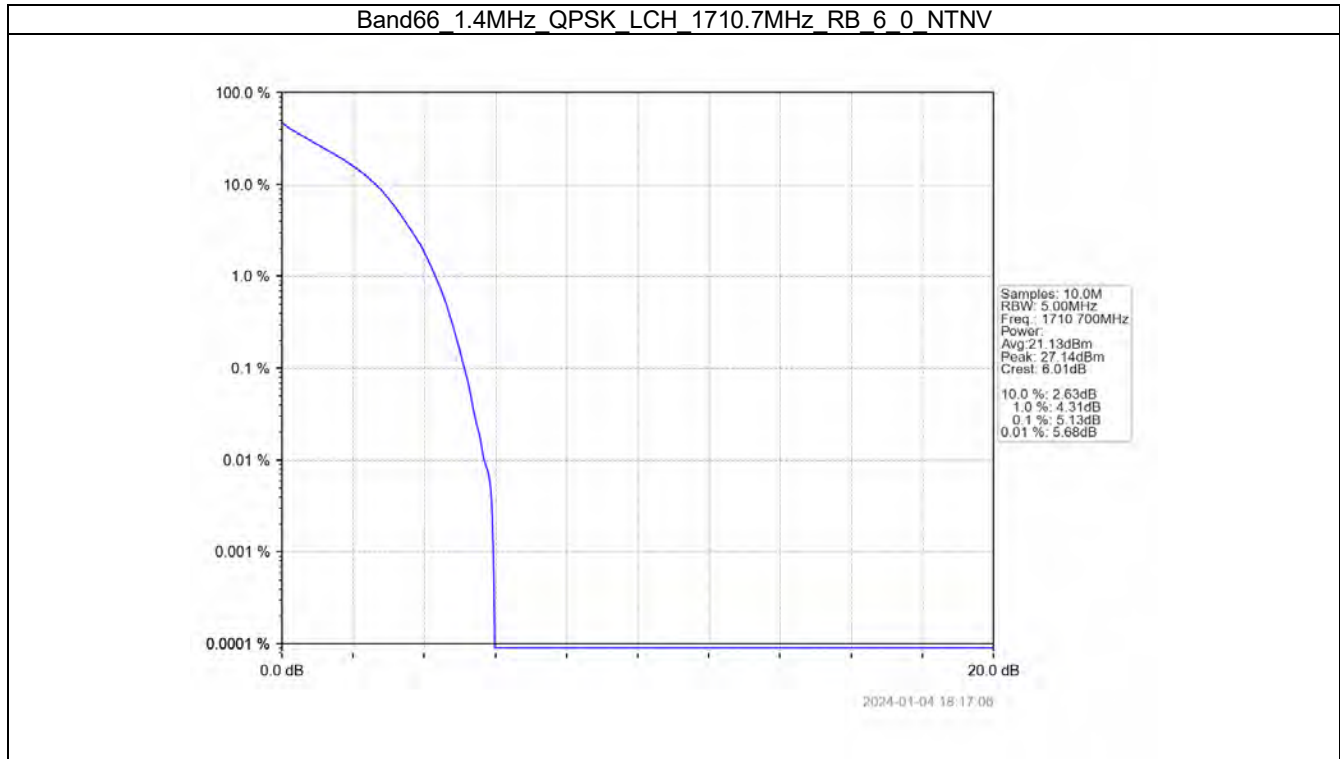
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4.1.2 Test Graph



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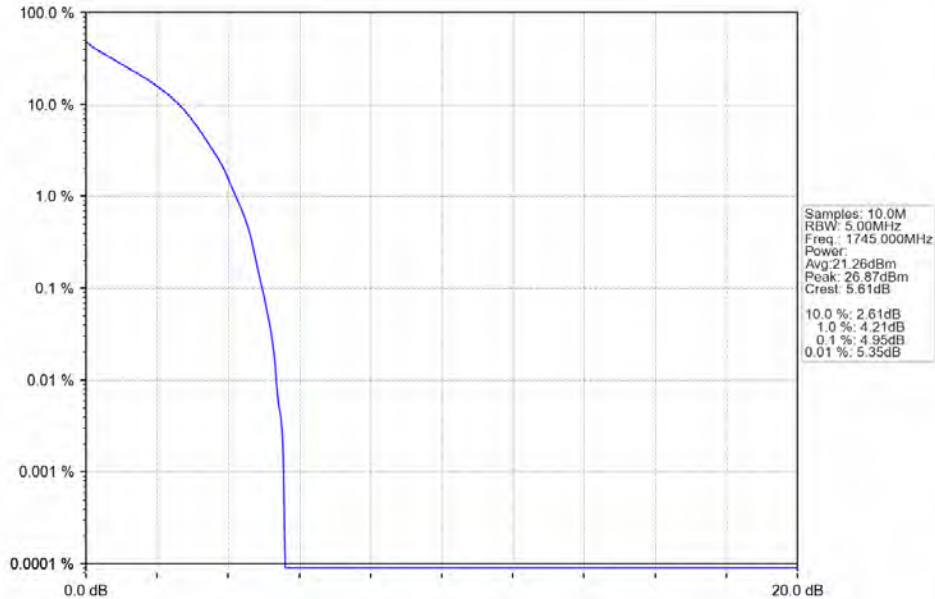
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Band66 1.4MHz QPSK MCH 1745MHz RB 6 0 NTV



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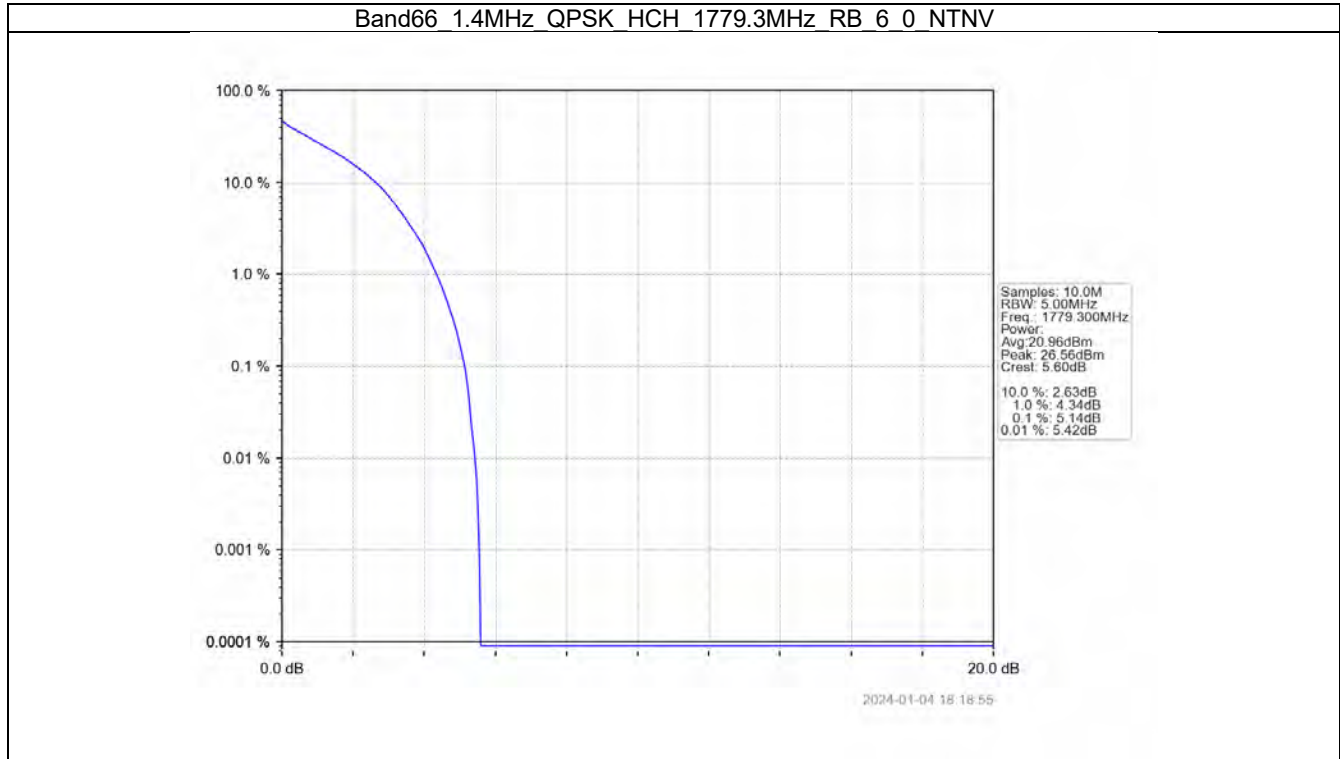
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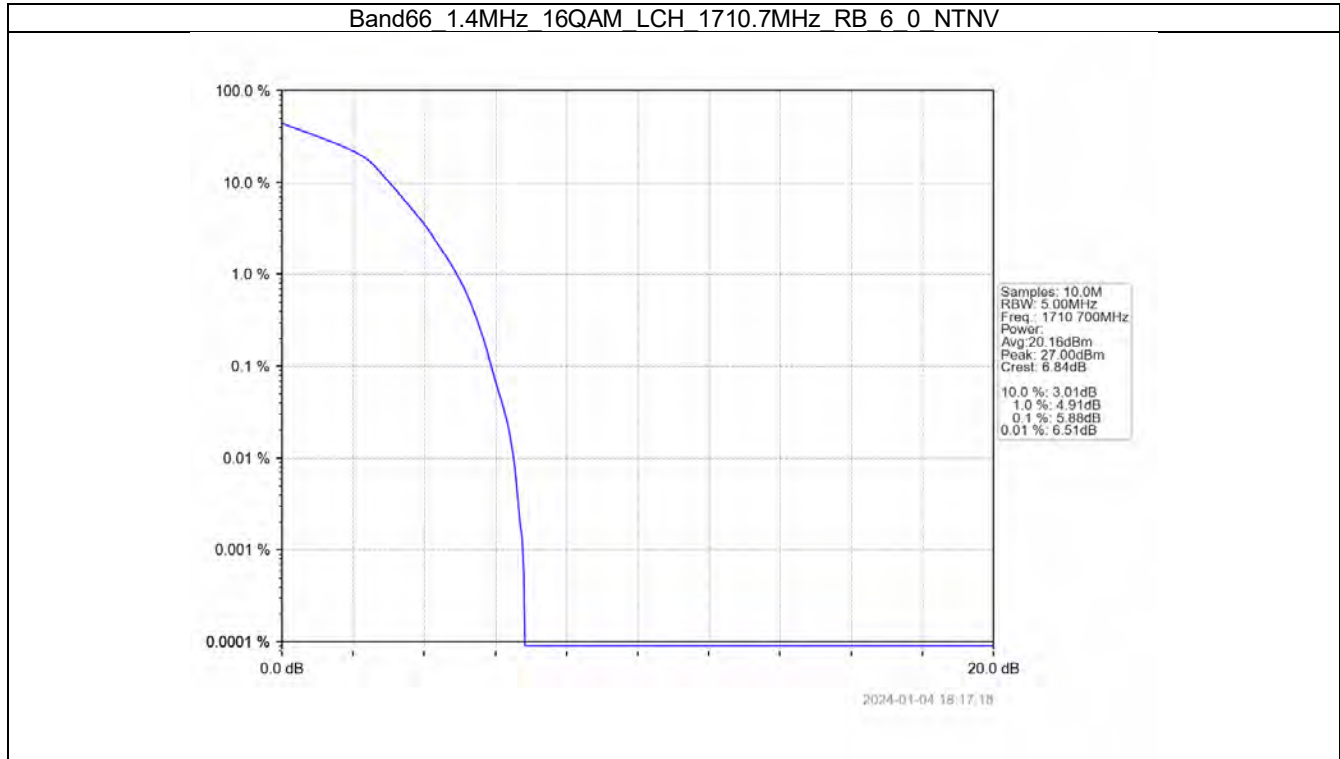
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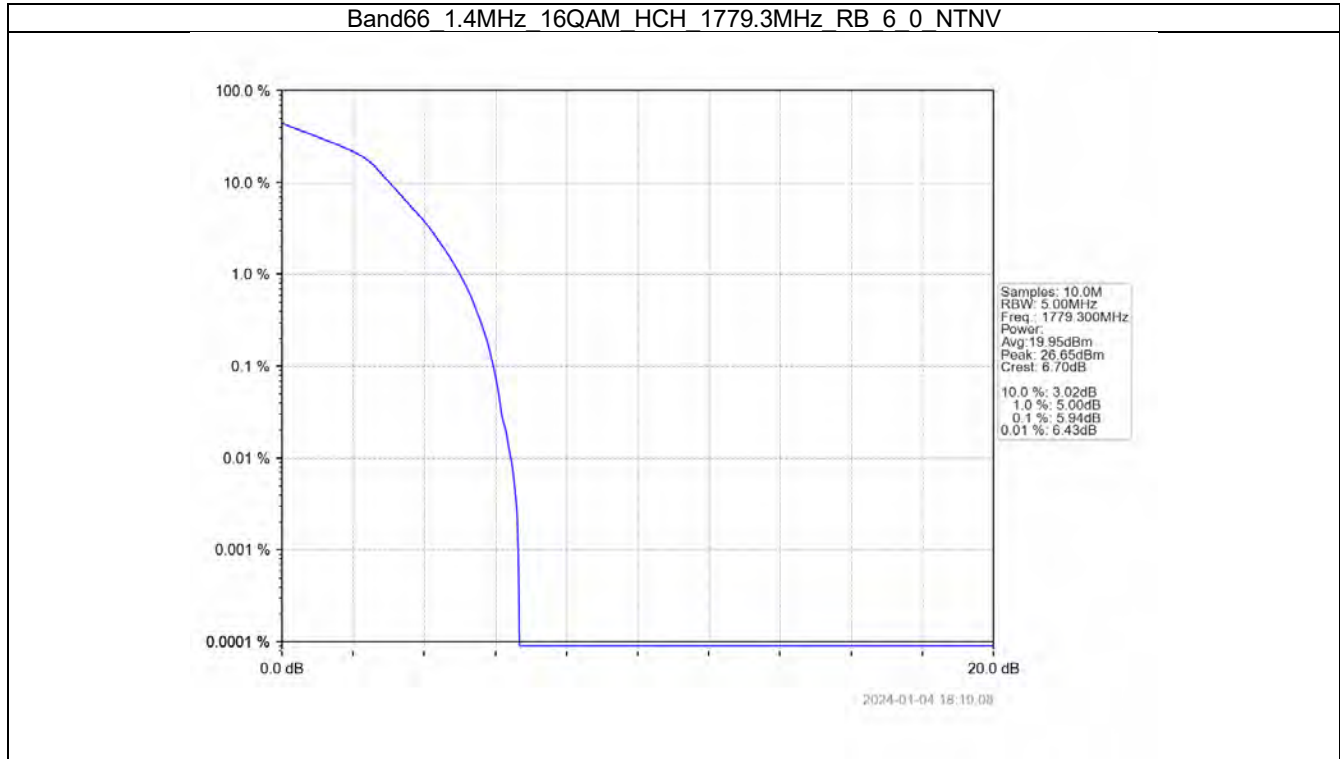
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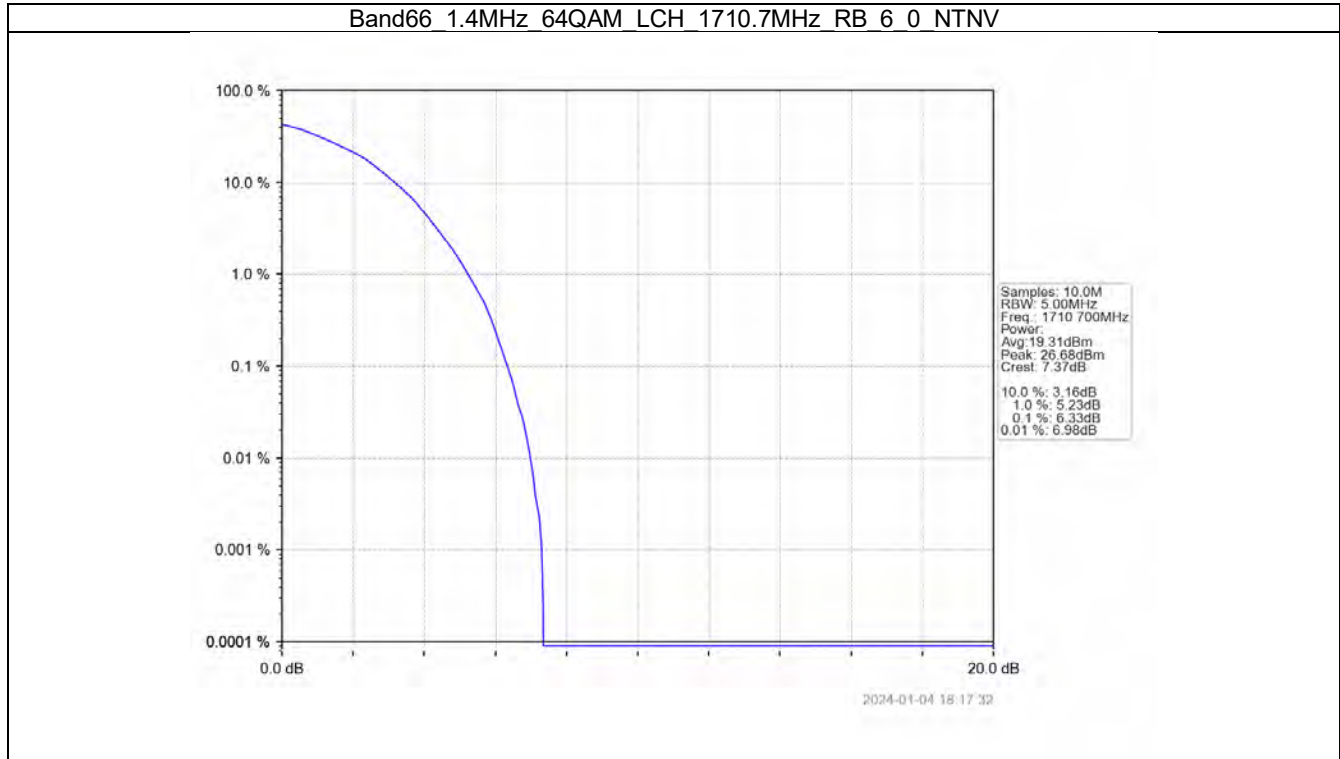
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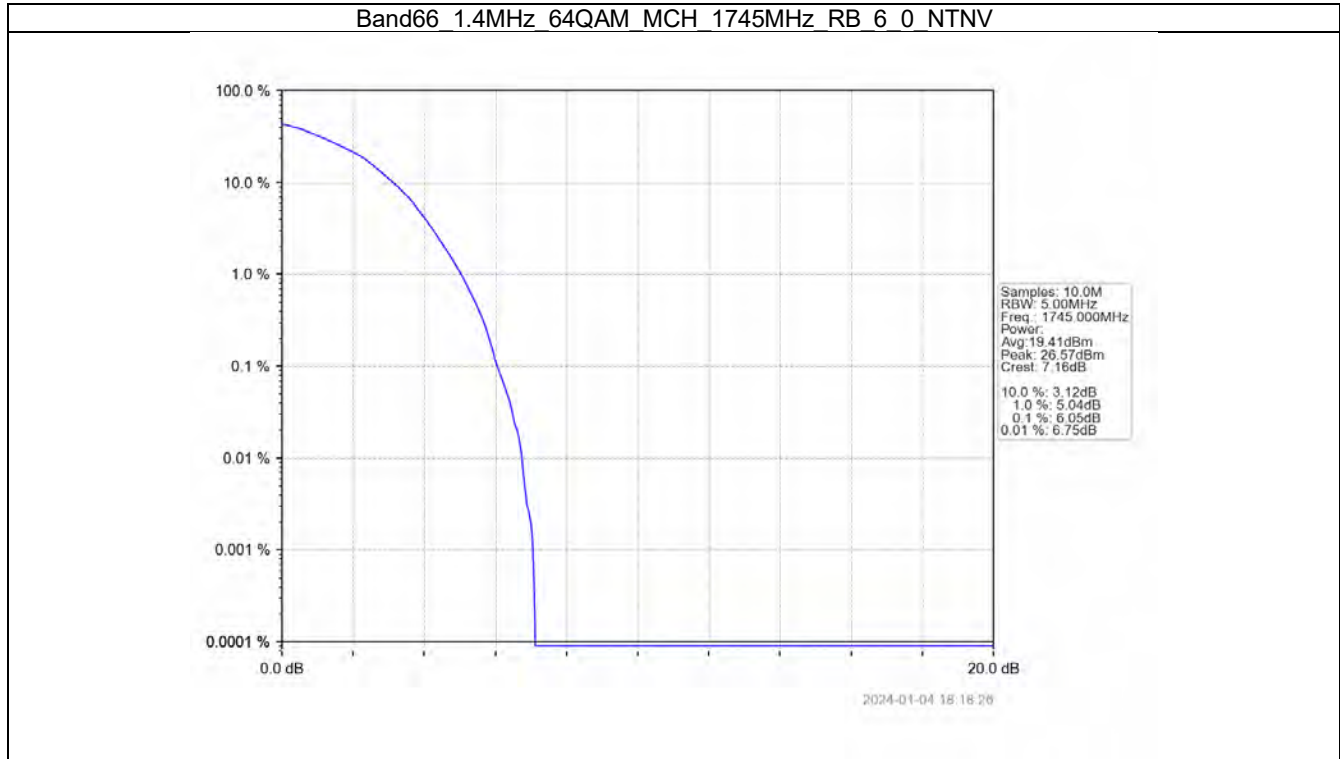
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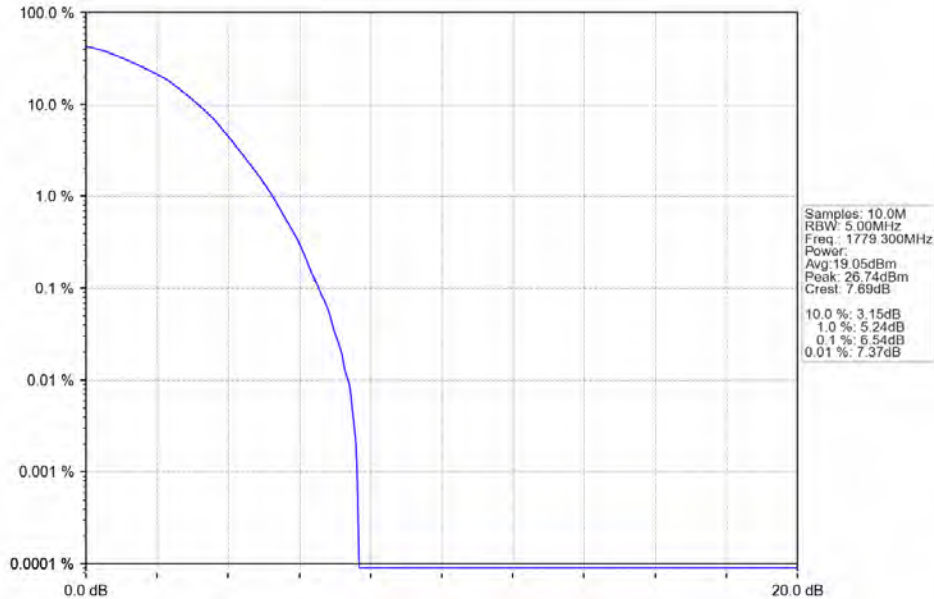


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Band66 1.4MHz 64QAM HCH 1779.3MHz RB 6 0 NTN



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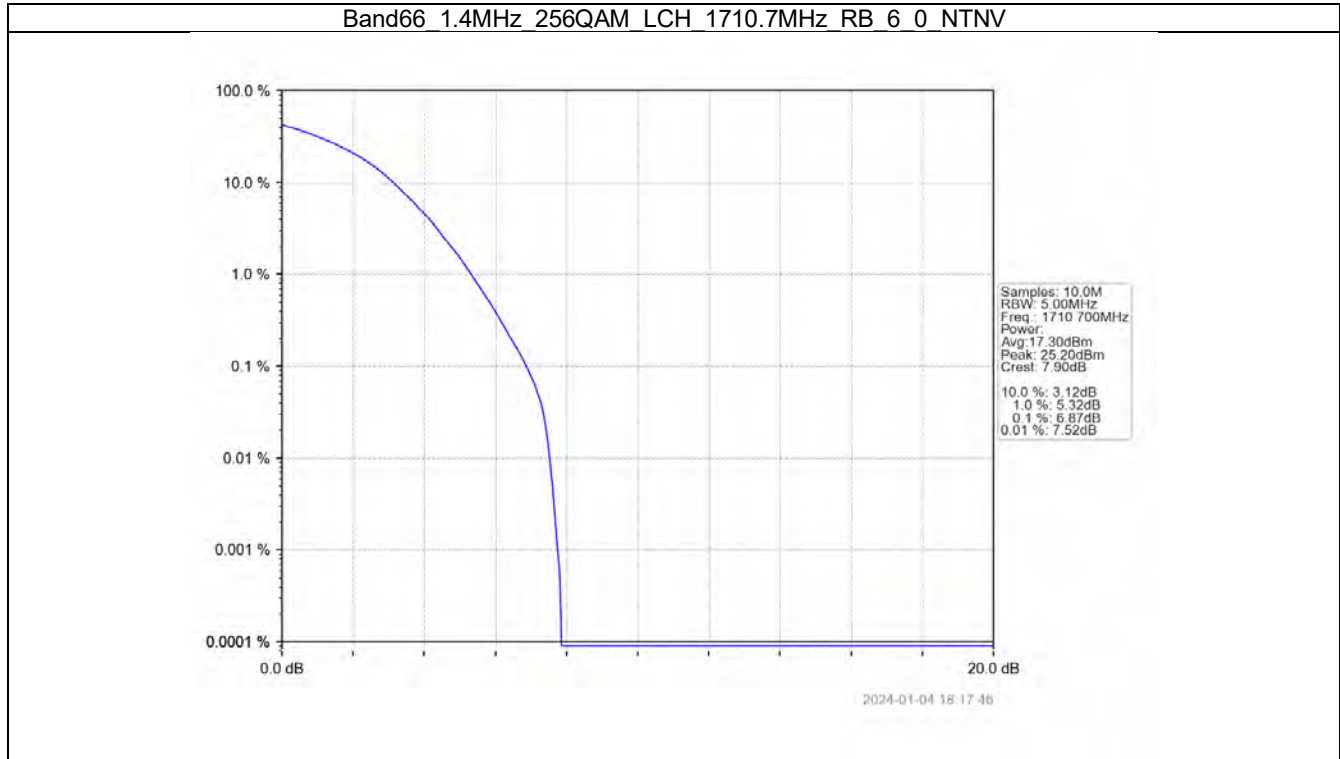
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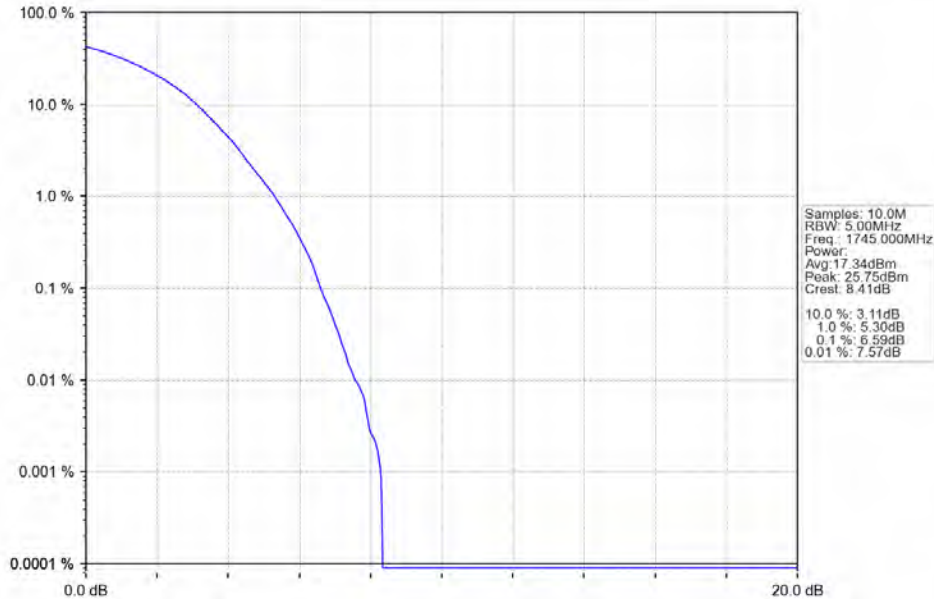


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Band66 1.4MHz 256QAM MCH 1745MHz RB 6.0 NTNV



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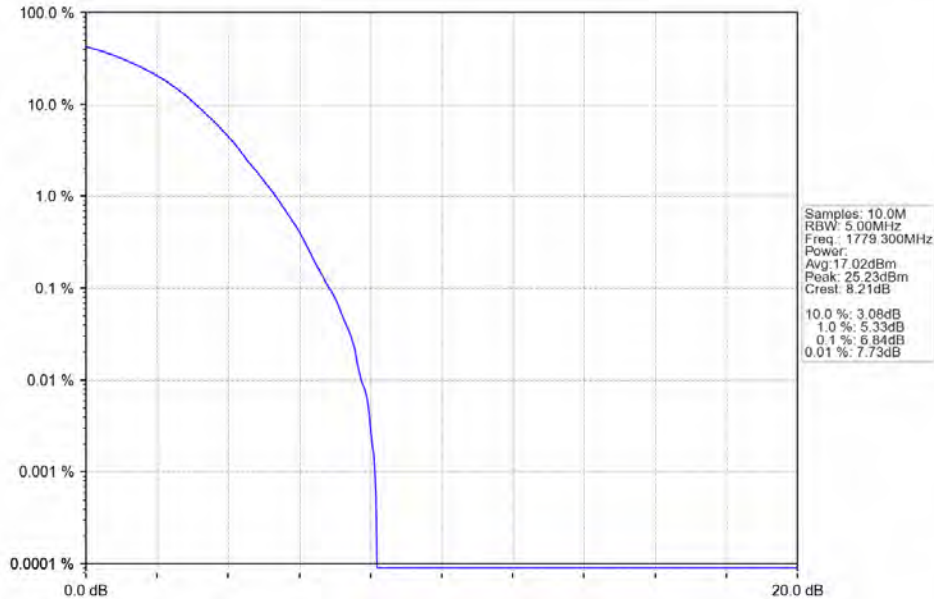


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Band66 1.4MHz 256QAM HCH 1779.3MHz RB 6 0 NTN



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4.2 B66_3MHz

4.2.1 Test Result

Band: 66 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.27	<=13	Pass
	1745	15	0	5.10	<=13	Pass
	1778.5	15	0	5.25	<=13	Pass
16QAM	1711.5	15	0	6.07	<=13	Pass
	1745	15	0	5.95	<=13	Pass
	1778.5	15	0	6.07	<=13	Pass
64QAM	1711.5	15	0	6.41	<=13	Pass
	1745	15	0	6.32	<=13	Pass
	1778.5	15	0	6.51	<=13	Pass
256QAM	1711.5	15	0	6.83	<=13	Pass
	1745	15	0	6.72	<=13	Pass
	1778.5	15	0	6.88	<=13	Pass



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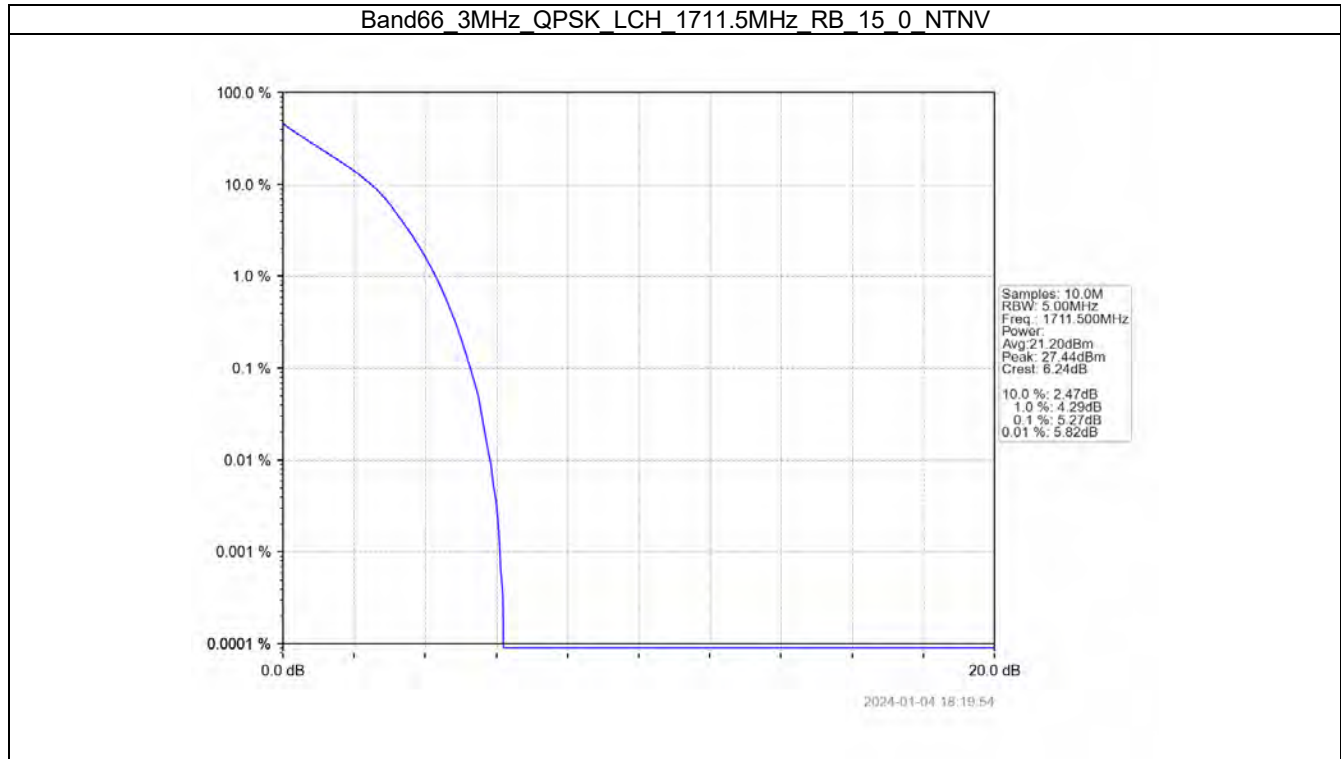
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4.2.2 Test Graph



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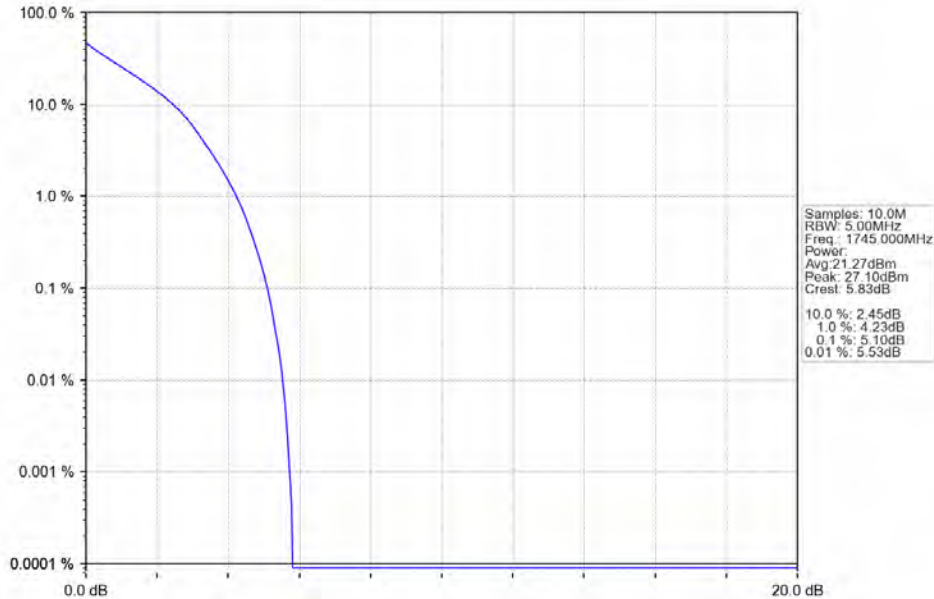
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Band66 3MHz QPSK MCH 1745MHz RB 15 0 NTV



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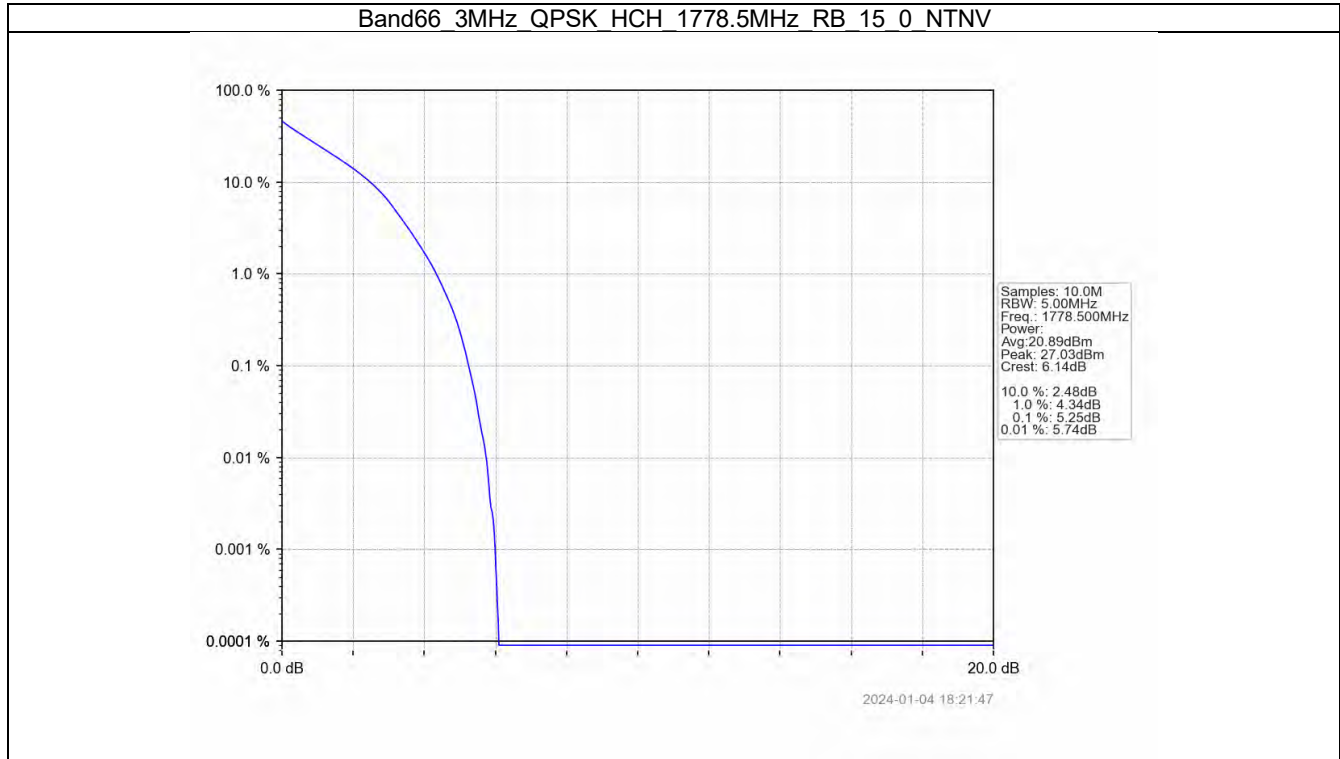
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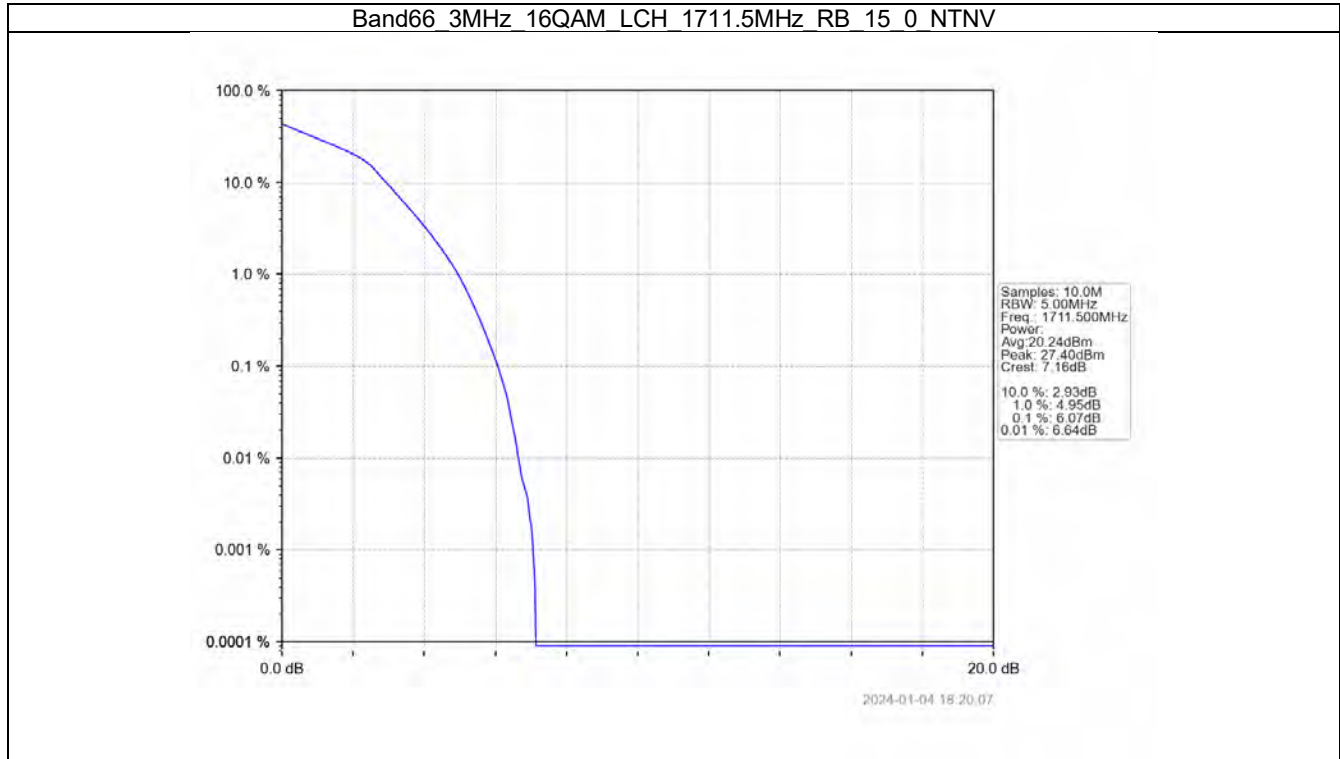
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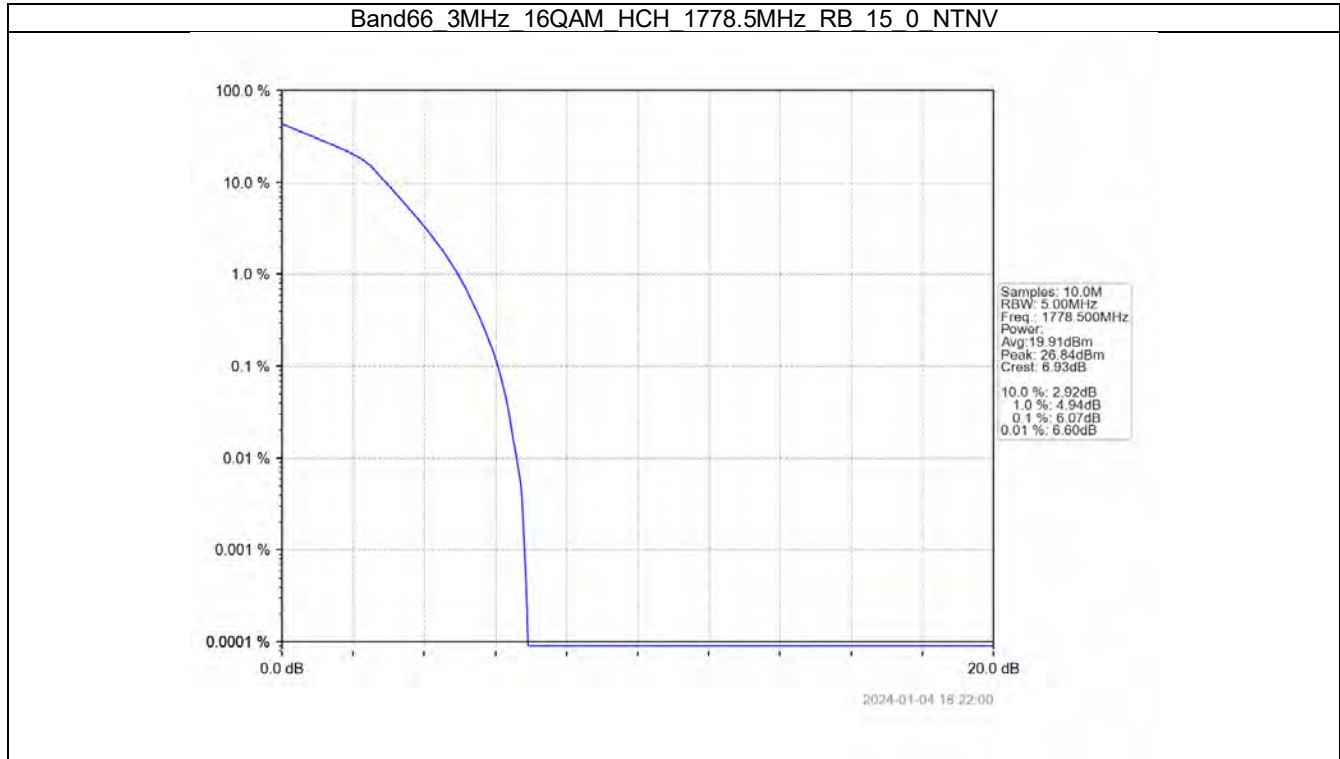
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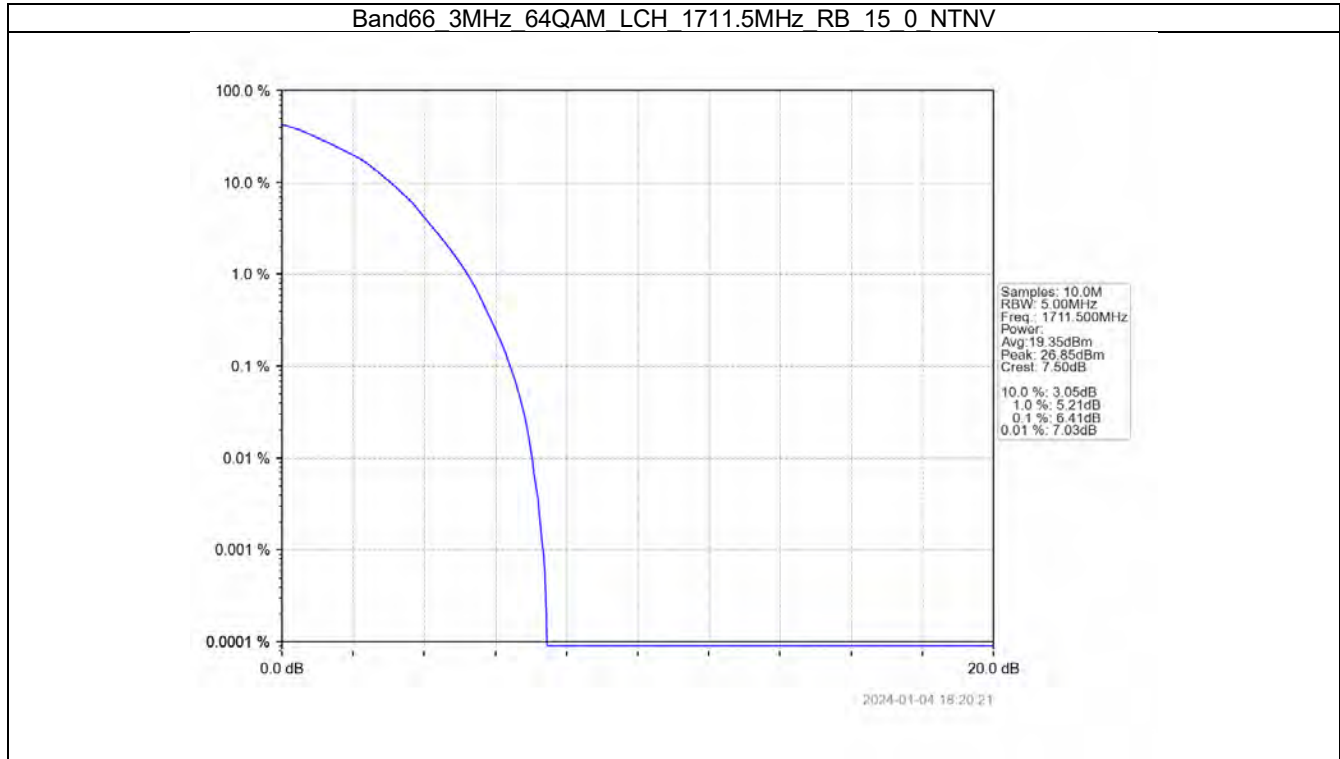
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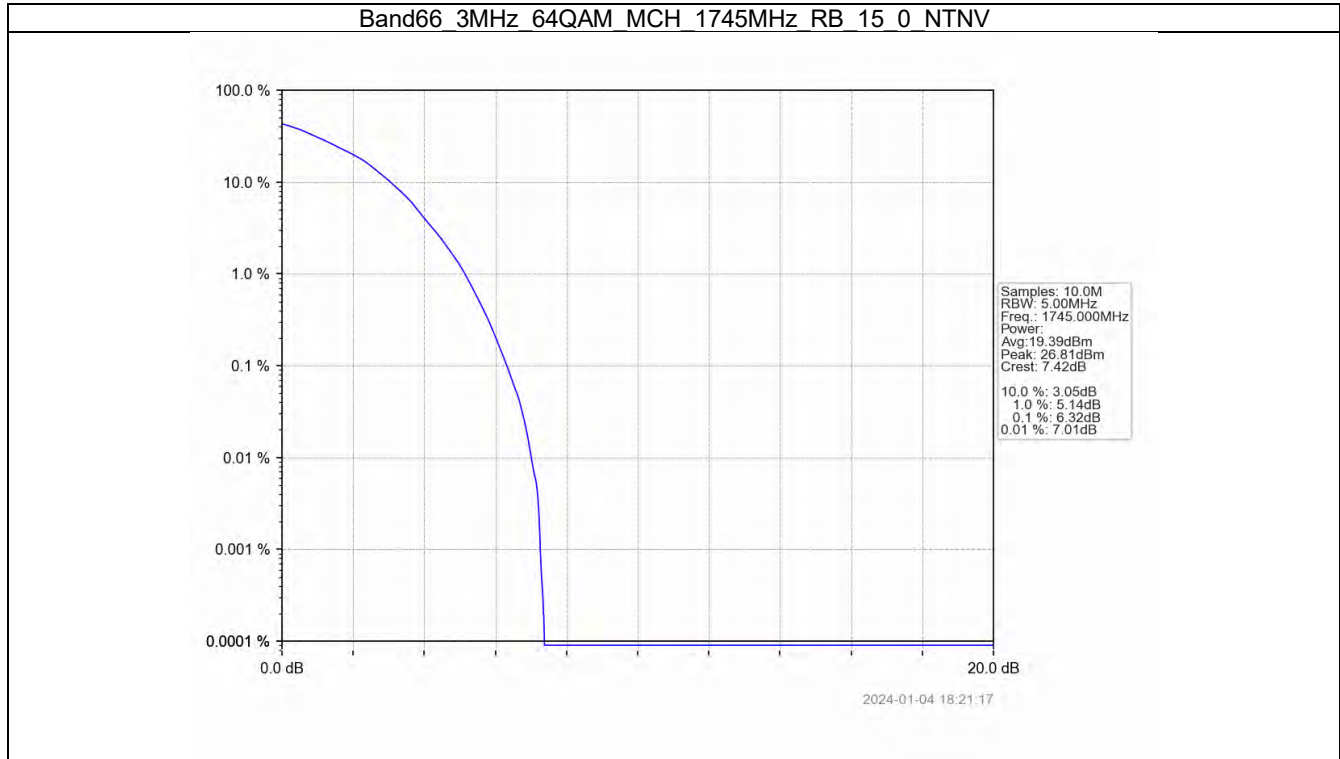
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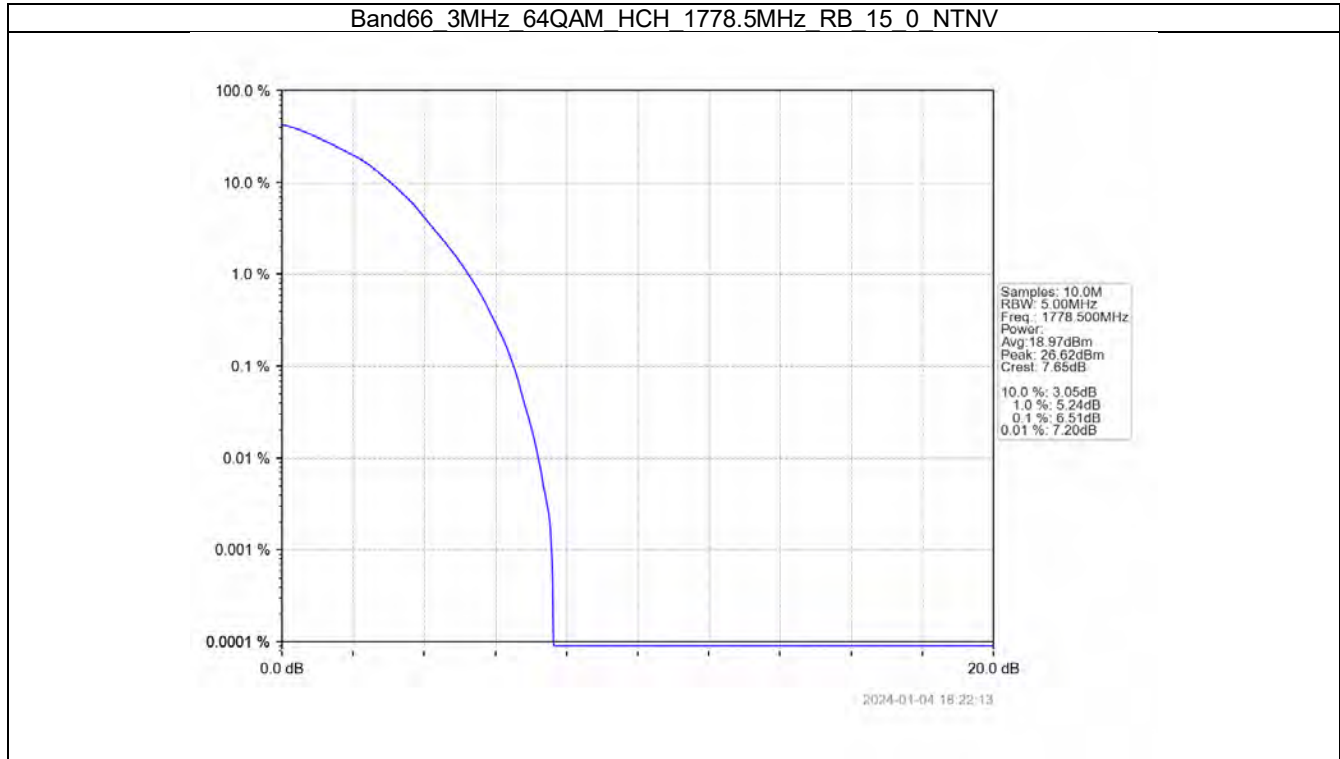
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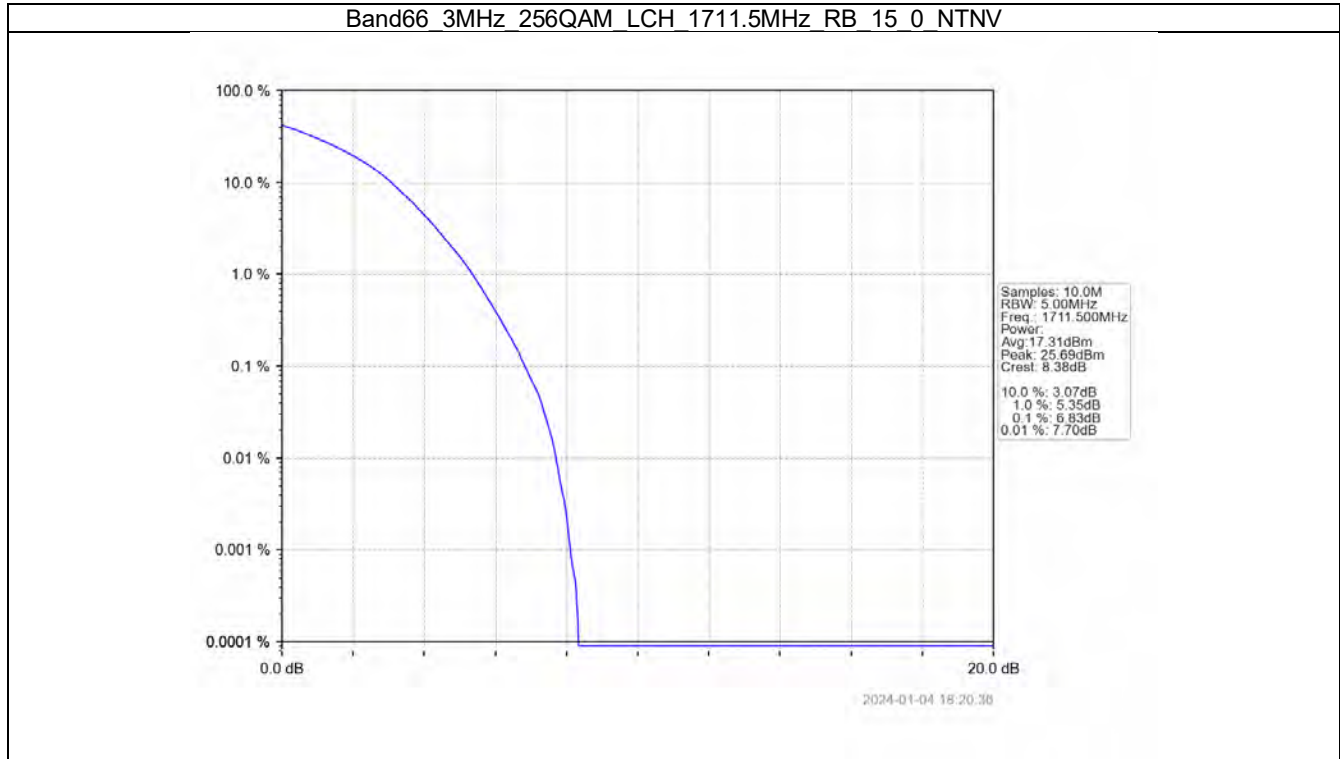
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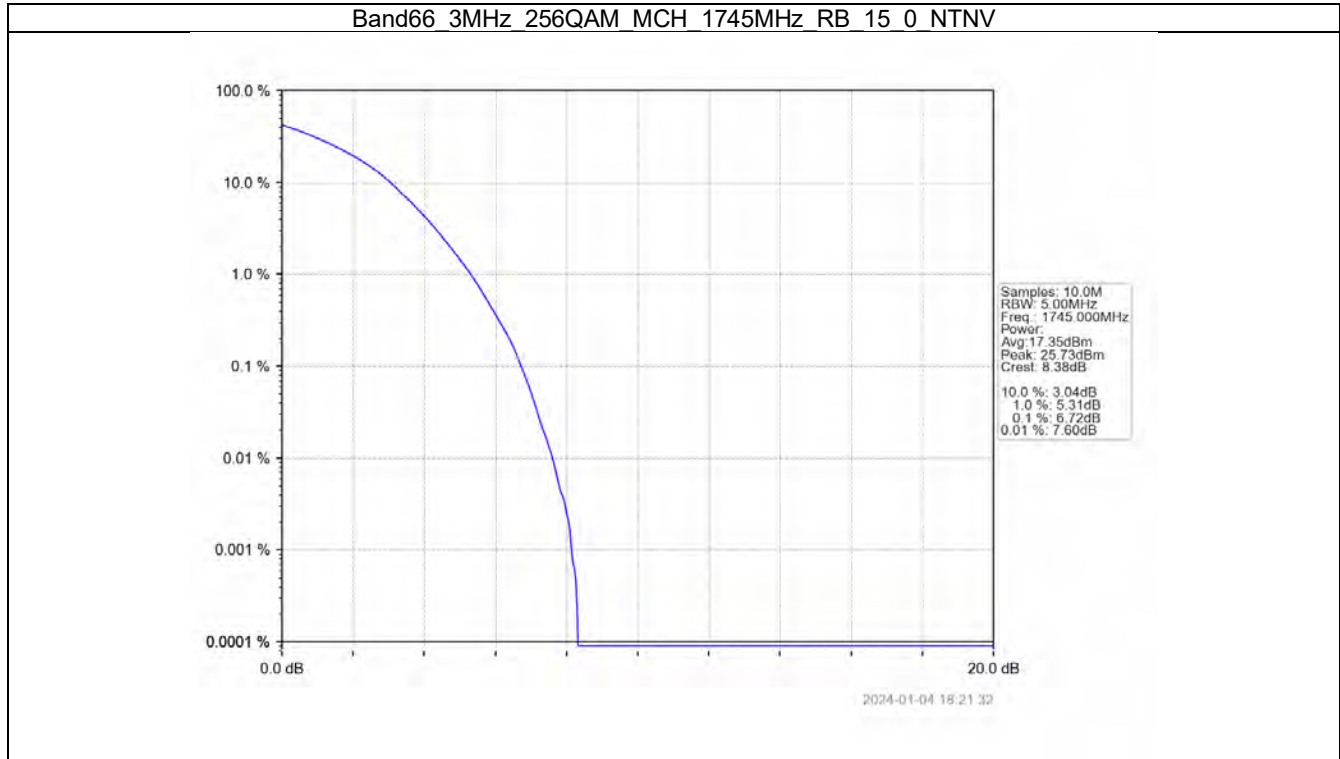
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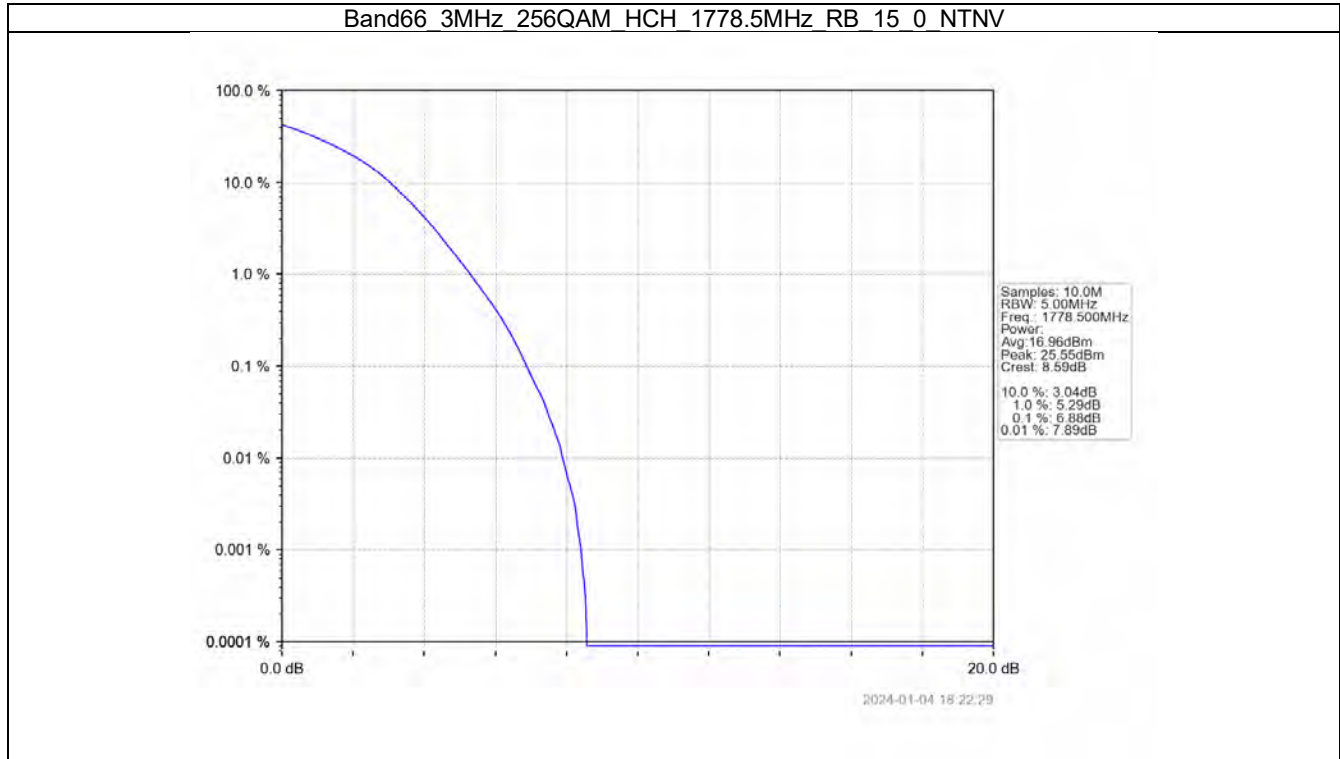
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4.3 B66_5MHz

4.3.1 Test Result

Band: 66 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.42	<=13	Pass
	1745	25	0	5.32	<=13	Pass
	1777.5	25	0	5.36	<=13	Pass
16QAM	1712.5	25	0	6.10	<=13	Pass
	1745	25	0	6.03	<=13	Pass
	1777.5	25	0	6.10	<=13	Pass
64QAM	1712.5	25	0	6.44	<=13	Pass
	1745	25	0	6.38	<=13	Pass
	1777.5	25	0	6.44	<=13	Pass
256QAM	1712.5	25	0	6.72	<=13	Pass
	1745	25	0	6.81	<=13	Pass
	1777.5	25	0	6.81	<=13	Pass



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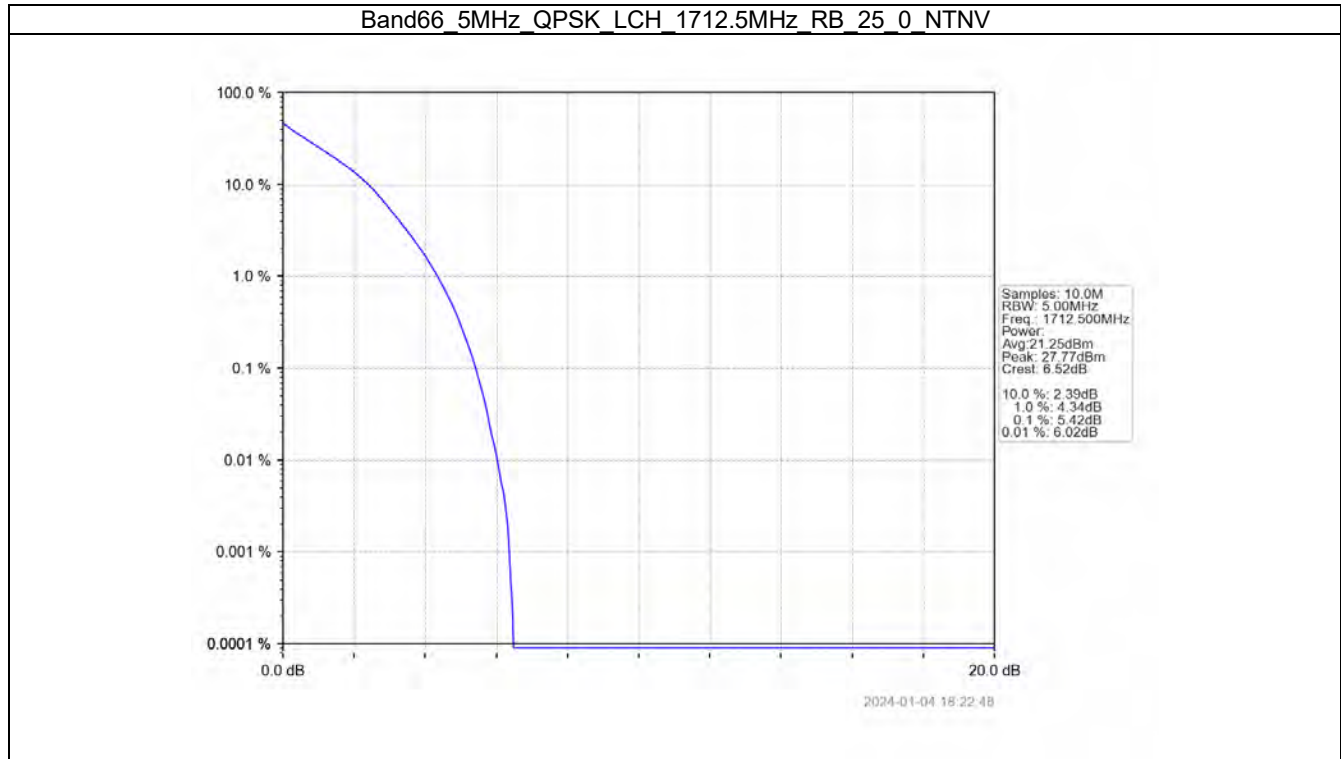
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4.3.2 Test Graph



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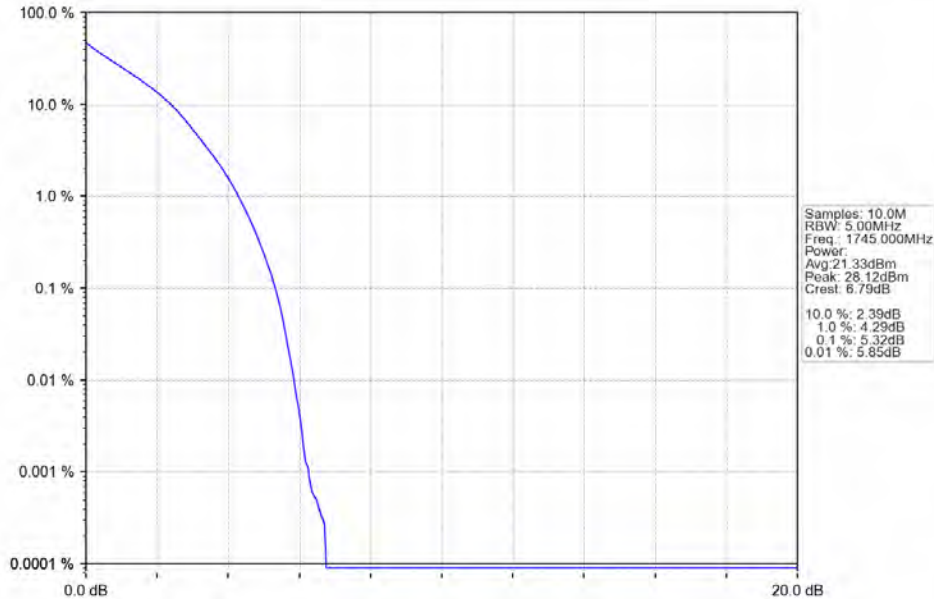


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Band66 5MHz QPSK MCH 1745MHz RB 25 0 NTV



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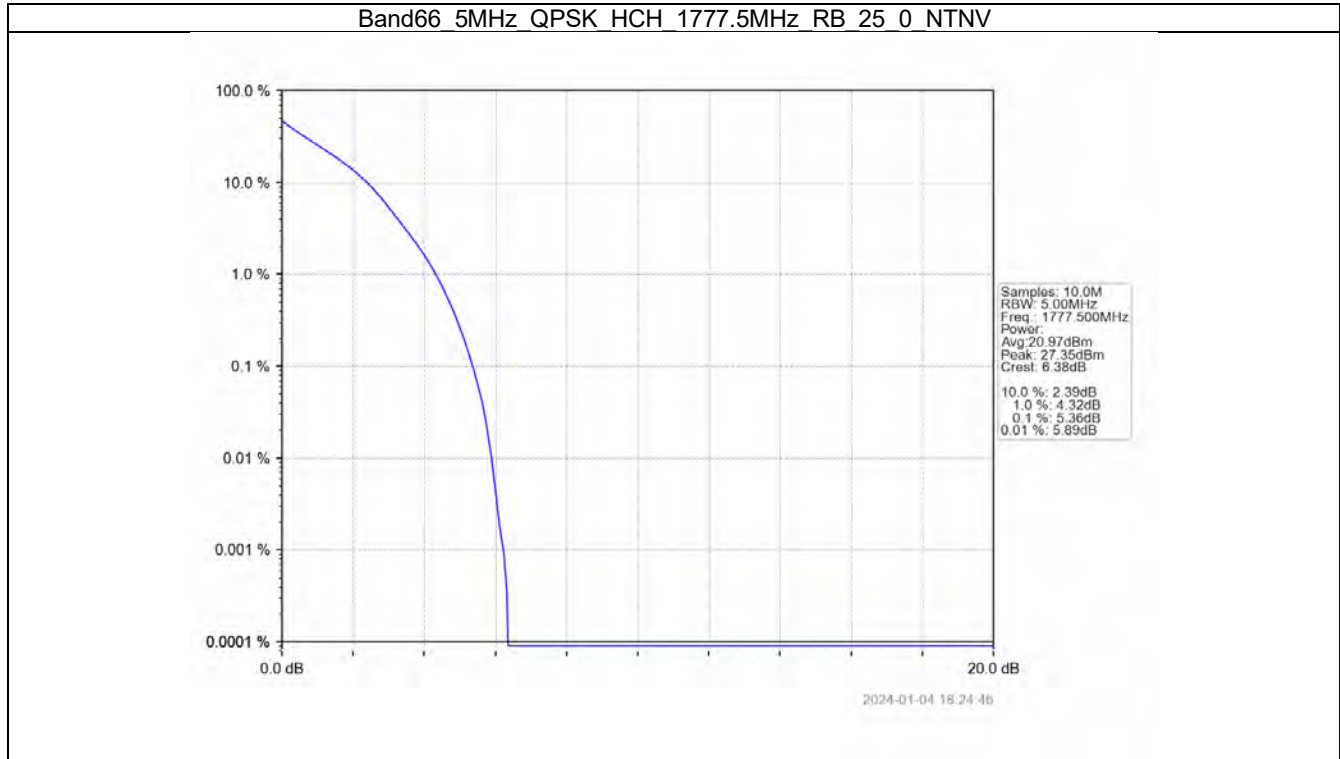
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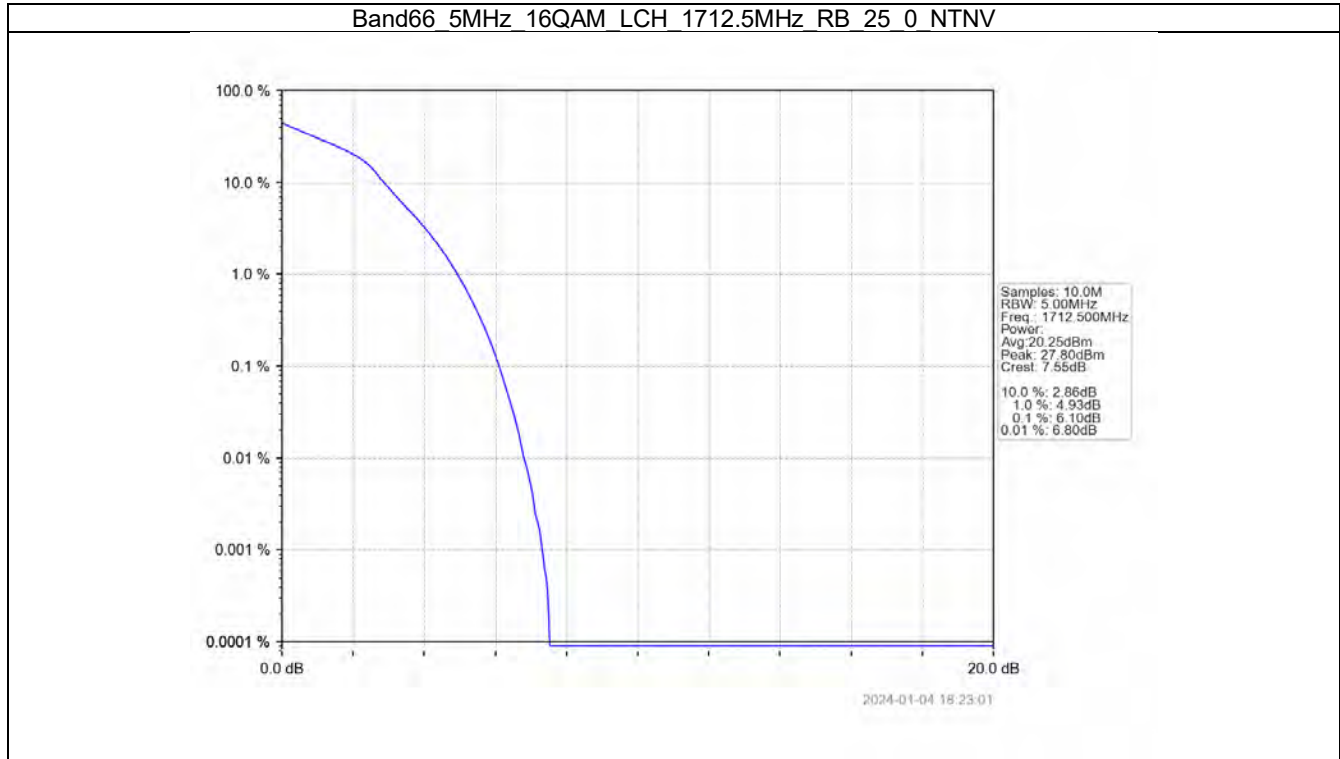
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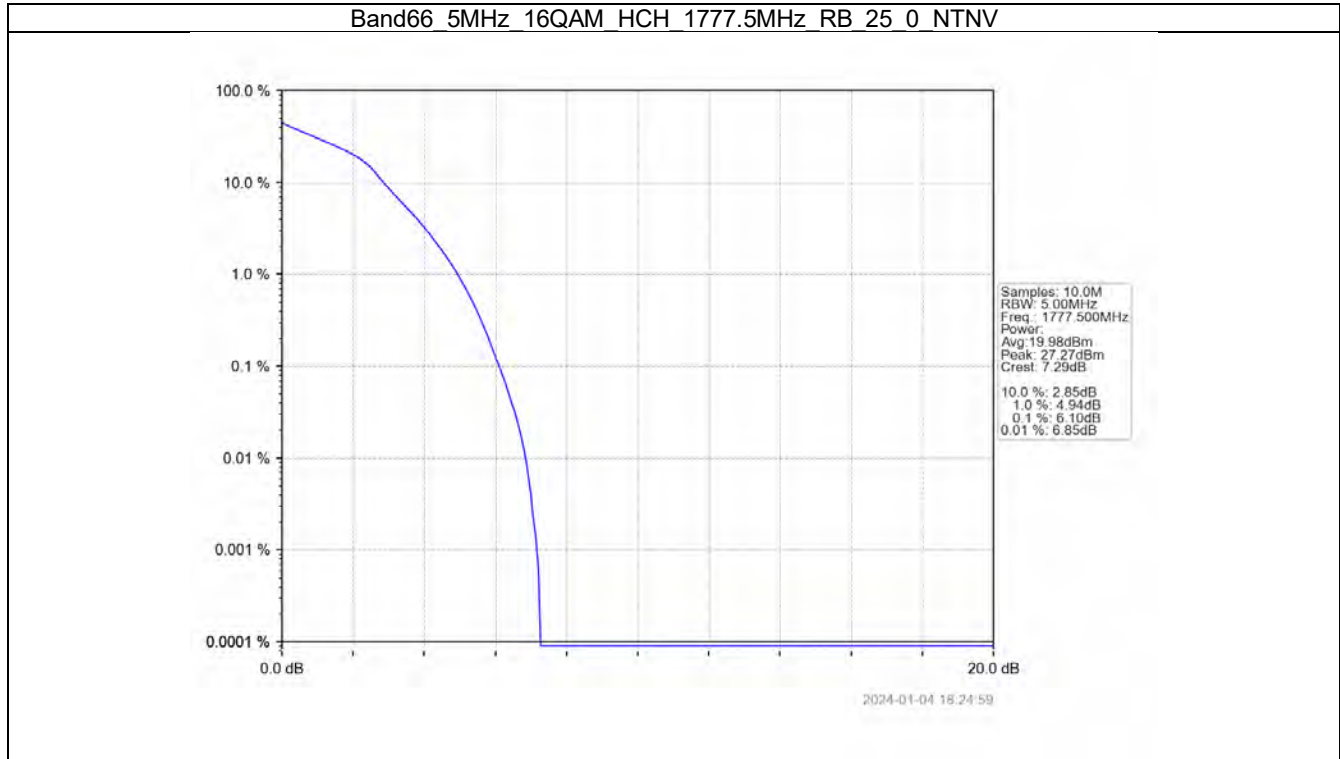
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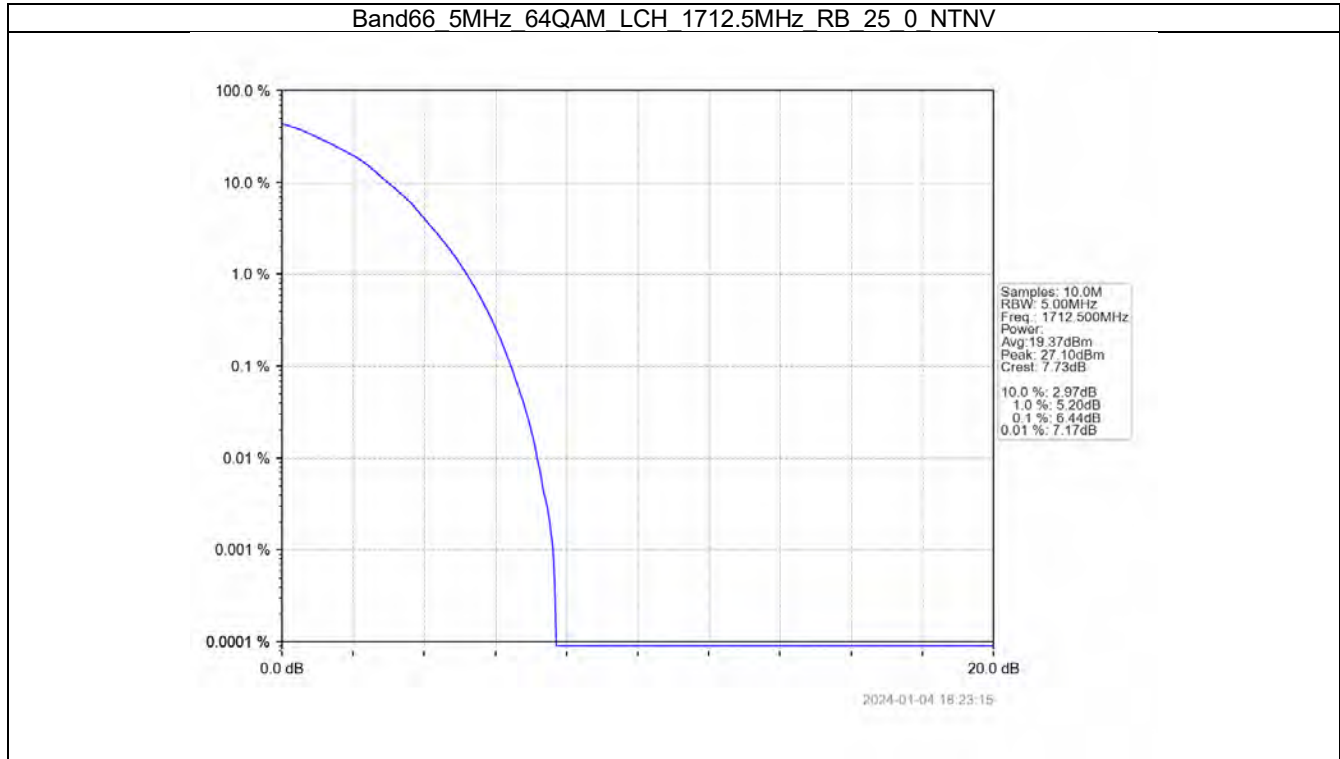
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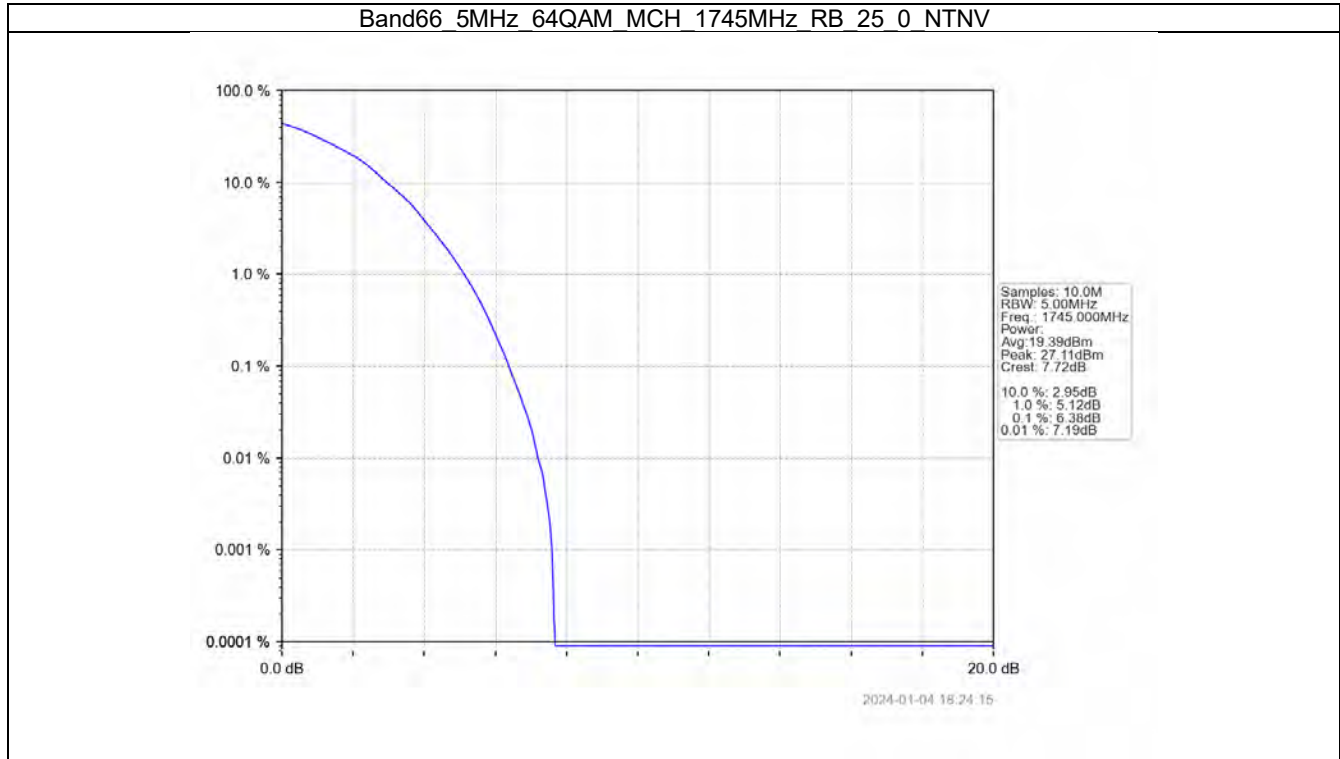
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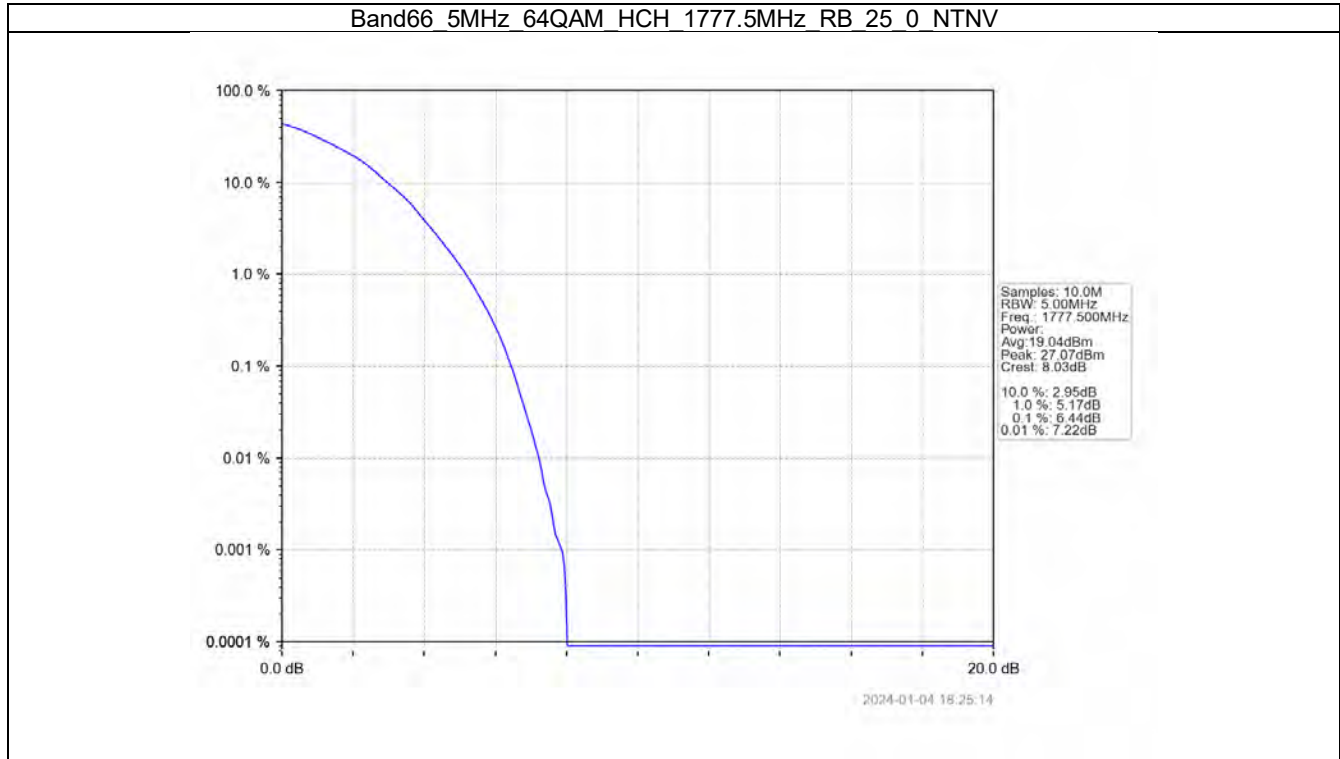
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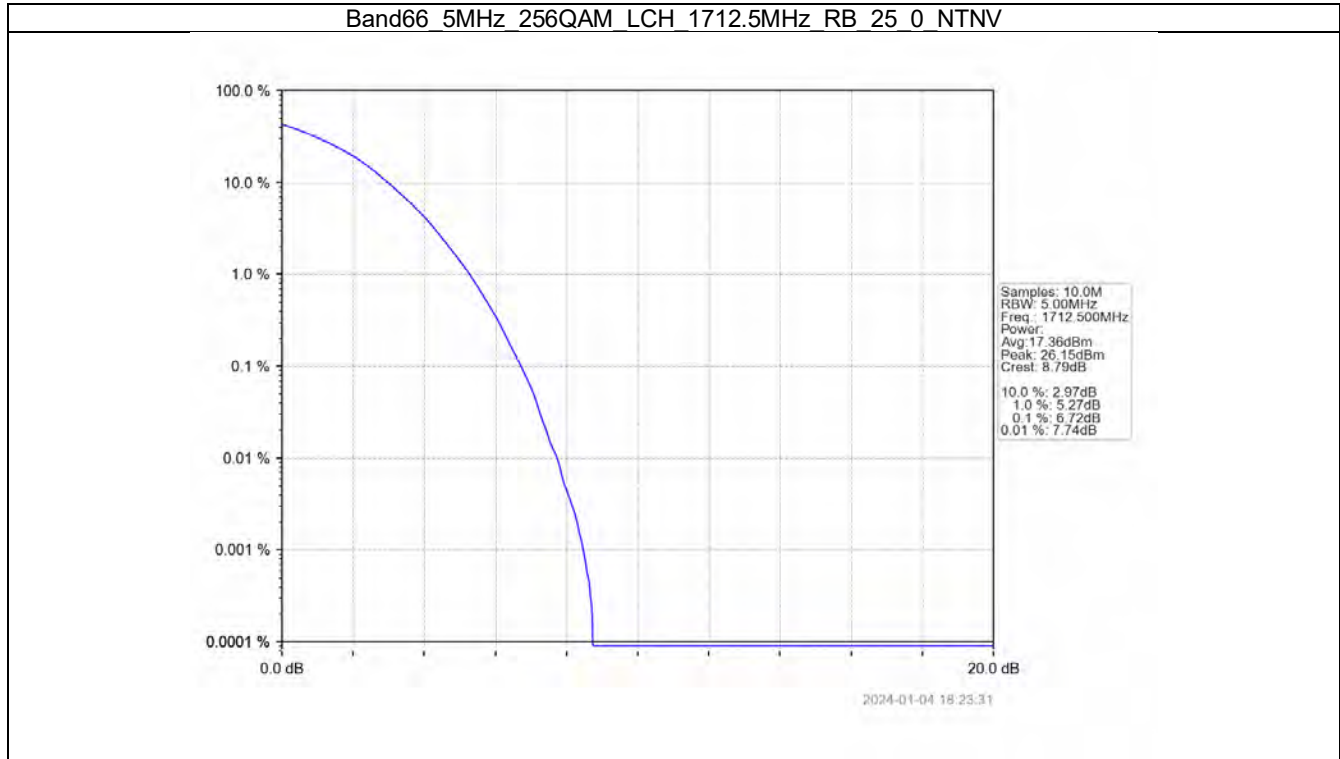
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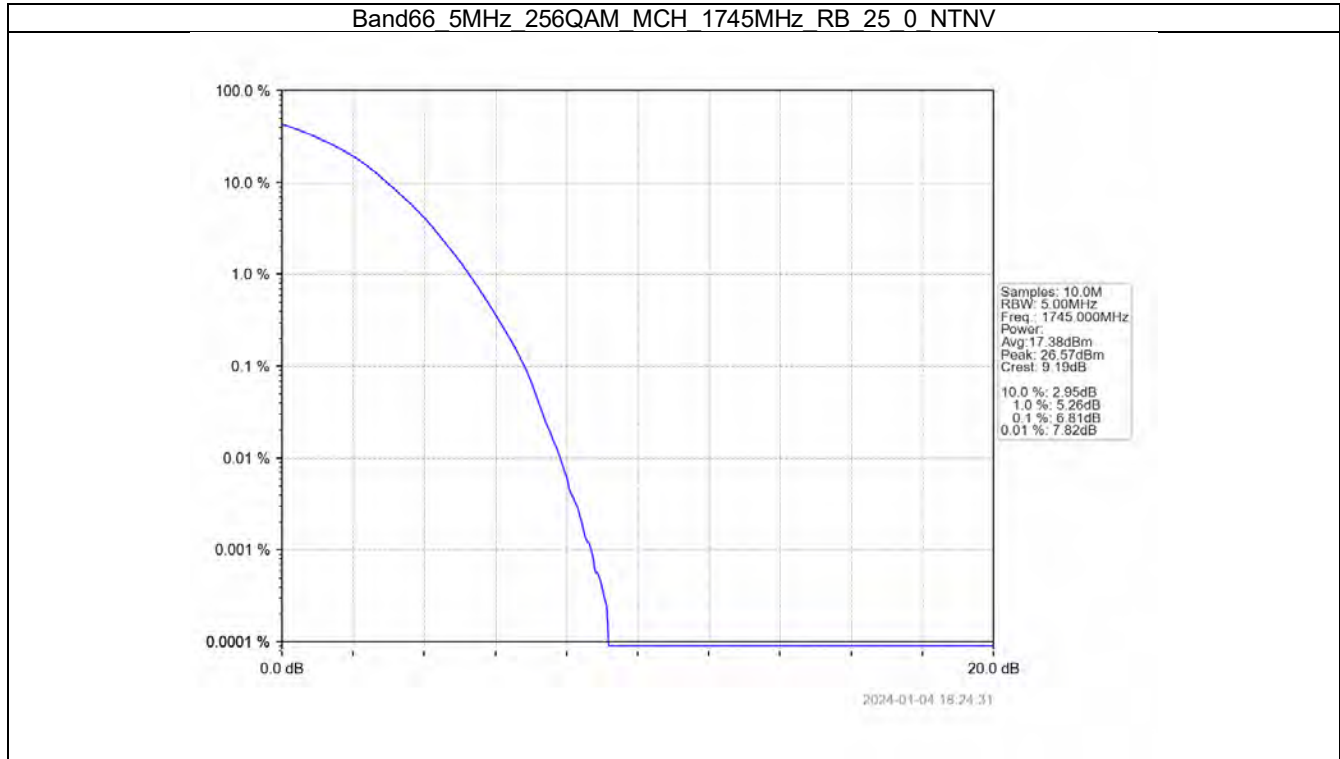
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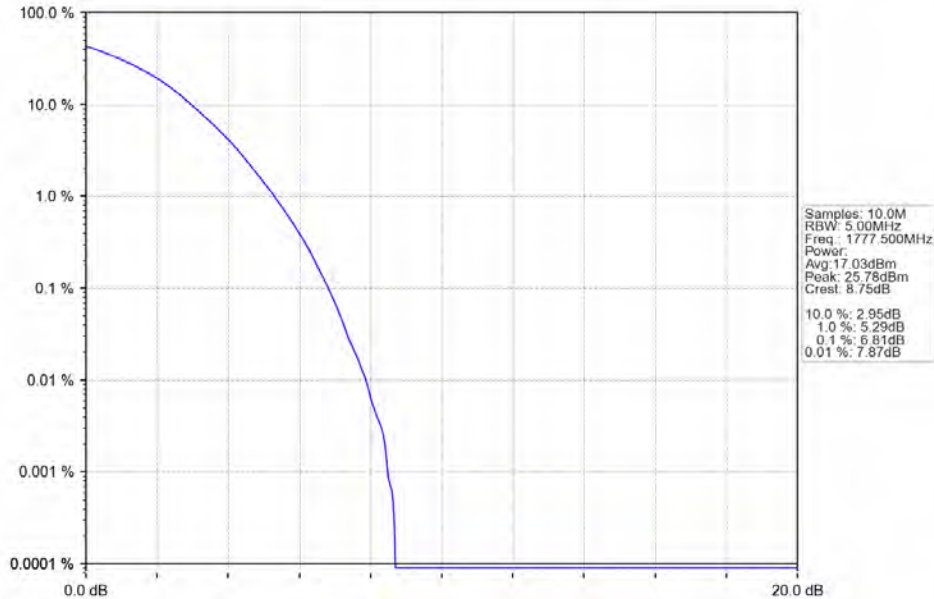


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Band66 5MHz 256QAM HCH 1777.5MHz RB 25 0 NTN



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4.4 B66_10MHz

4.4.1 Test Result

Band: 66 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.38	<=13	Pass
	1745	50	0	5.29	<=13	Pass
	1775	50	0	5.28	<=13	Pass
16QAM	1715	50	0	6.10	<=13	Pass
	1745	50	0	6.07	<=13	Pass
	1775	50	0	6.06	<=13	Pass
64QAM	1715	50	0	6.43	<=13	Pass
	1745	50	0	6.42	<=13	Pass
	1775	50	0	6.37	<=13	Pass
256QAM	1715	50	0	6.74	<=13	Pass
	1745	50	0	6.69	<=13	Pass
	1775	50	0	6.78	<=13	Pass



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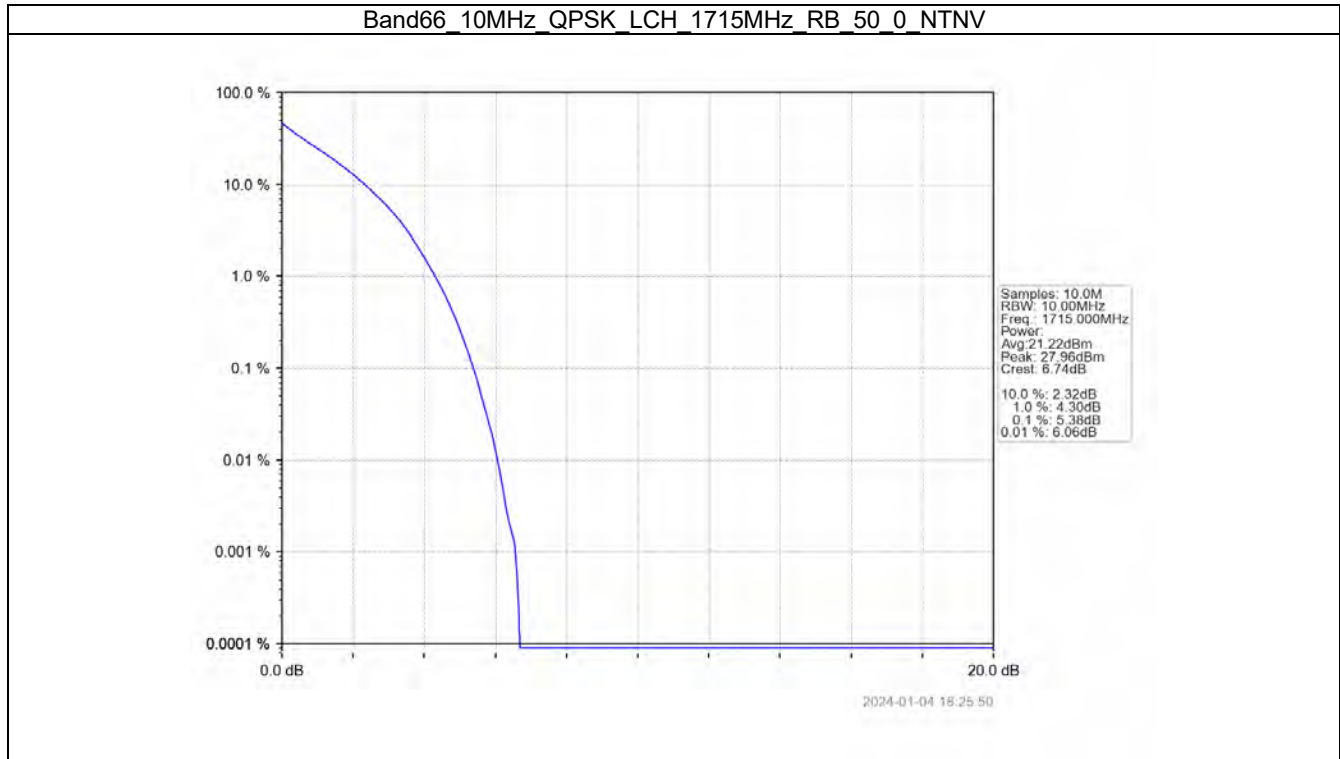
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4.4.2 Test Graph



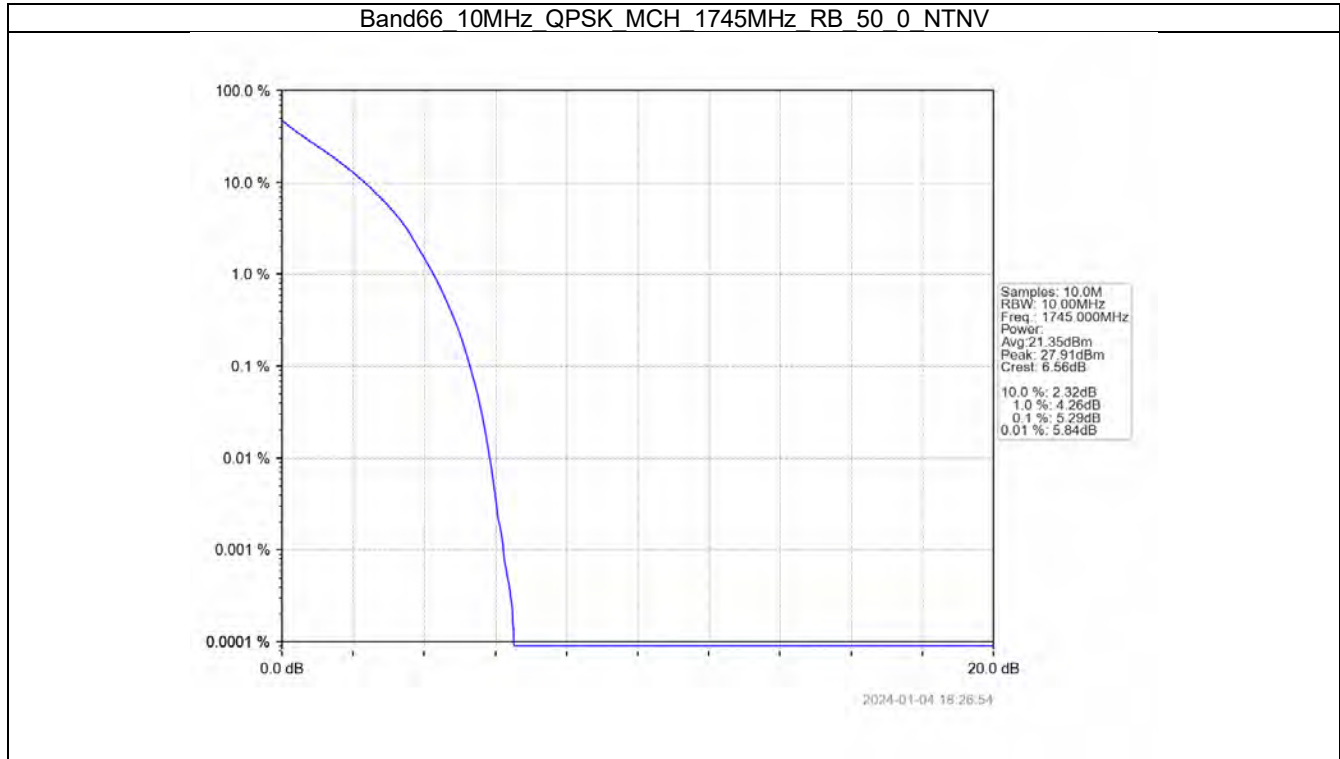
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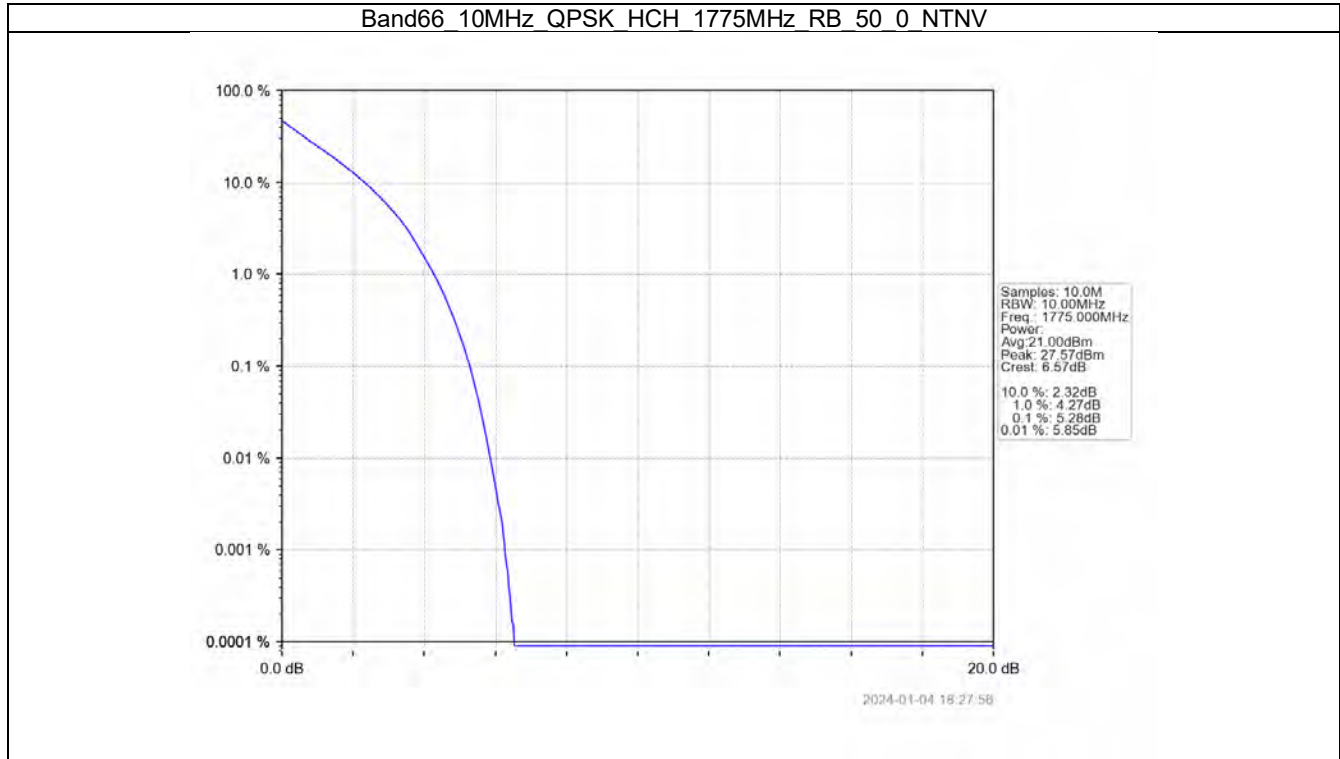
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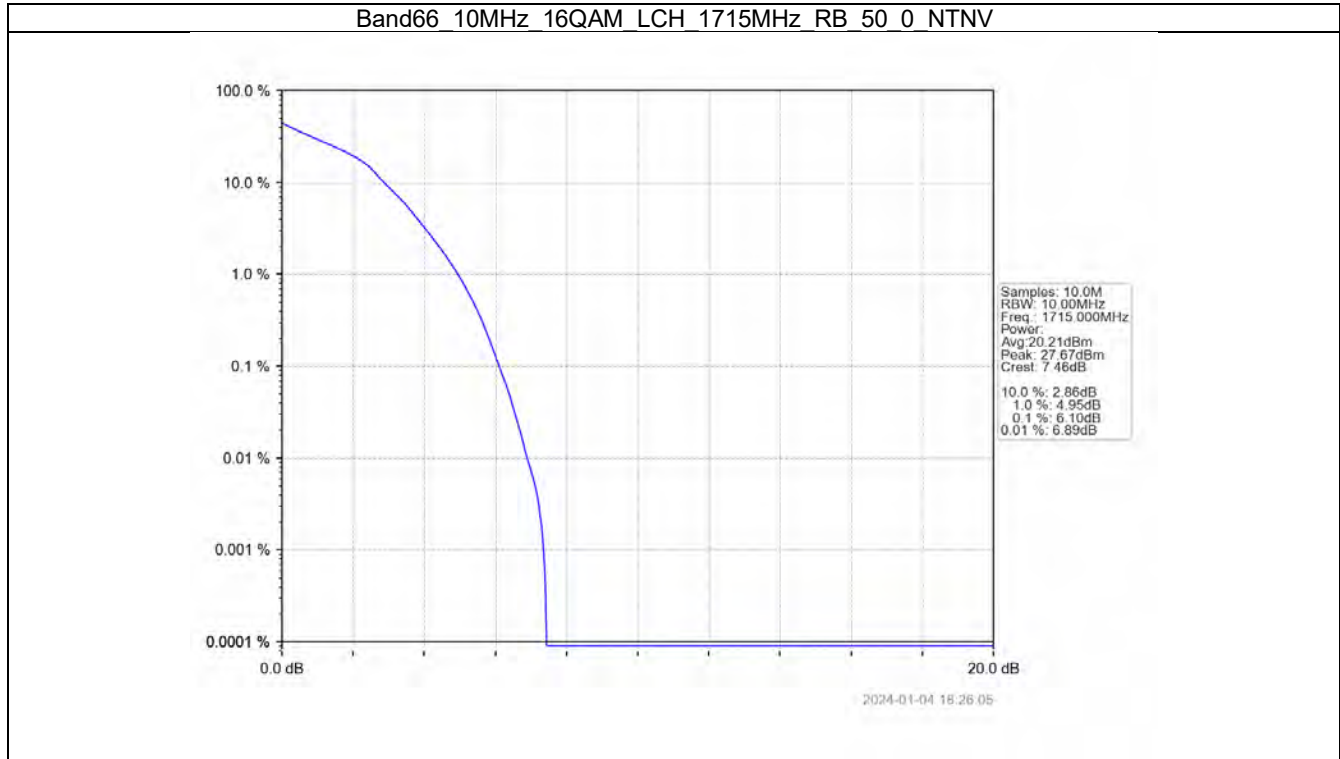
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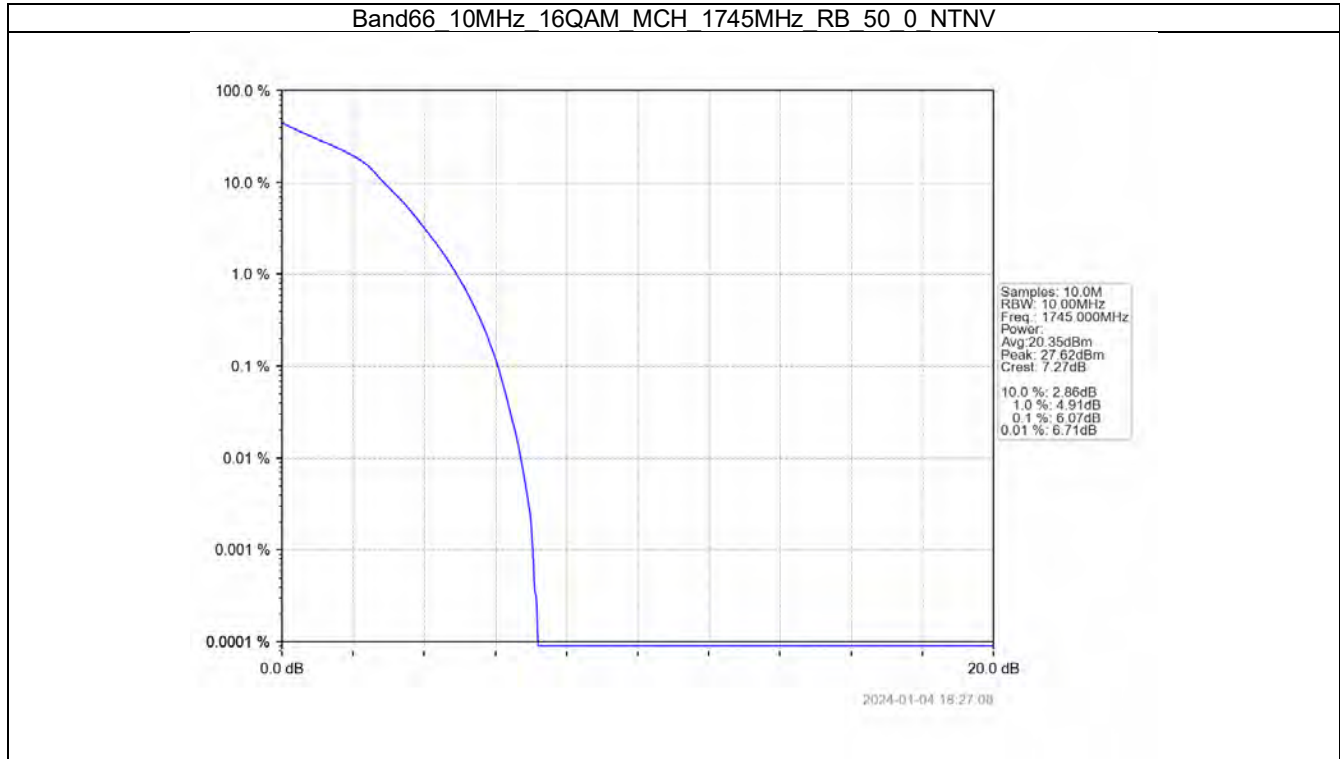
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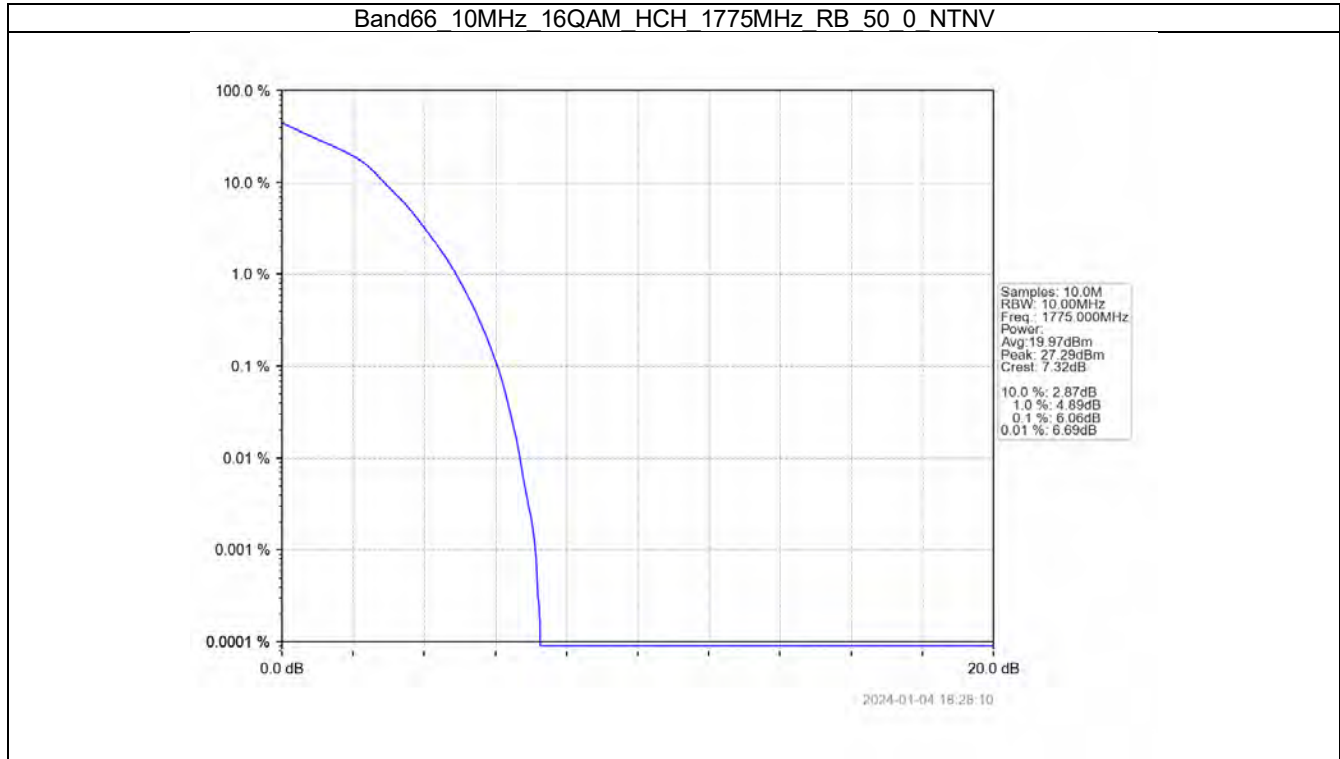
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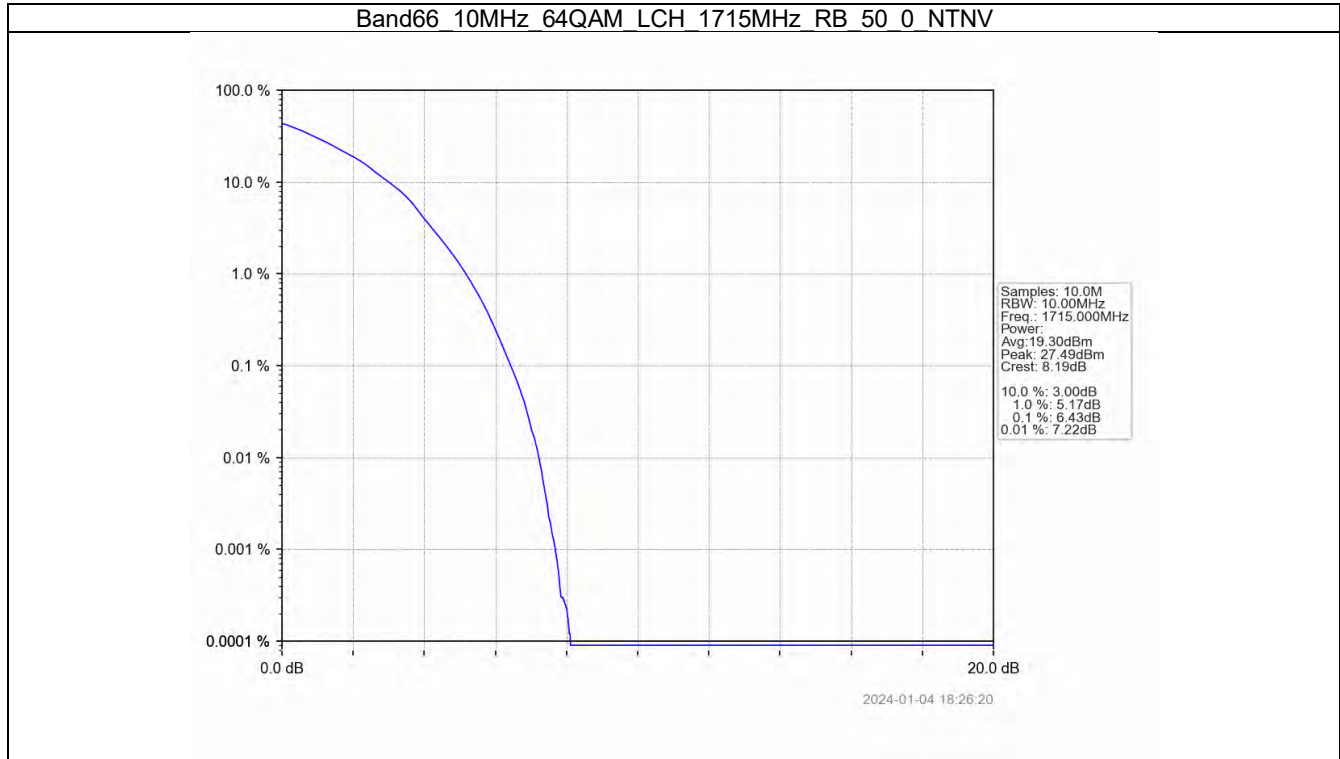
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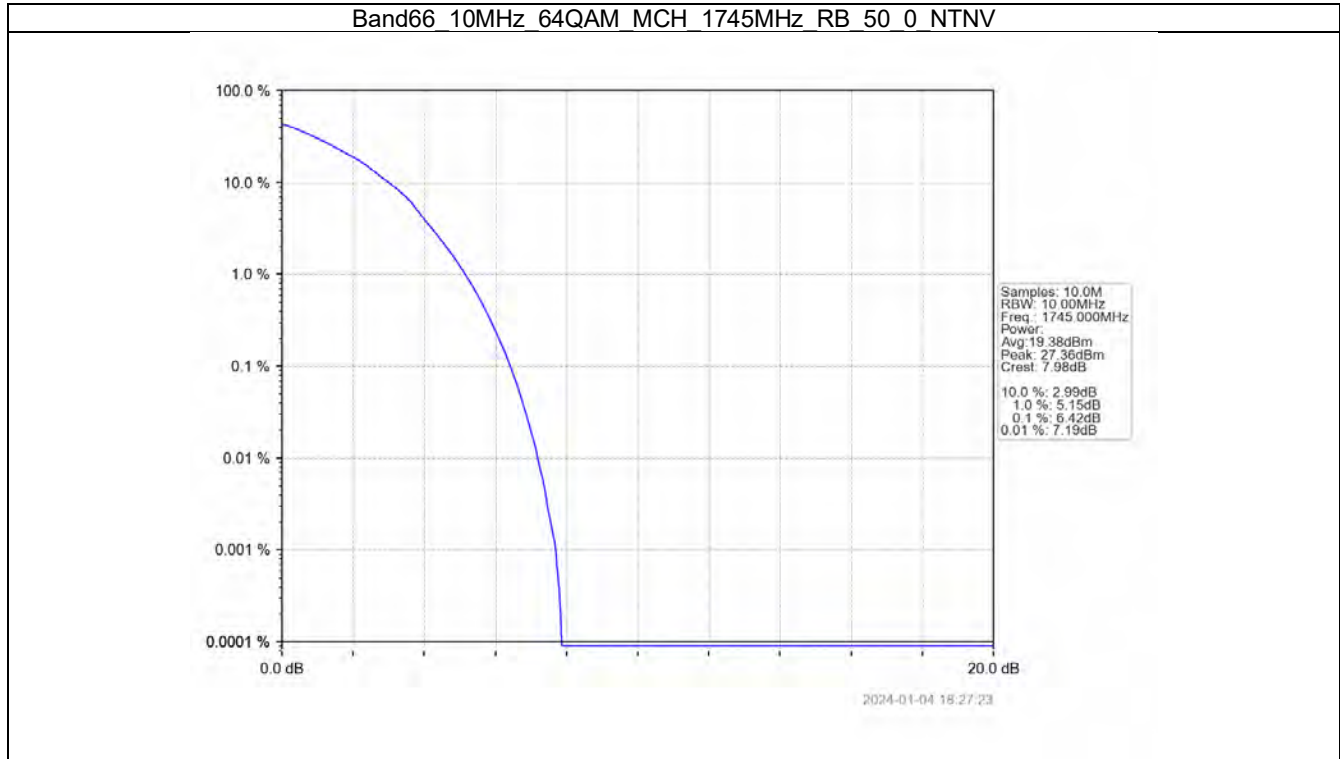
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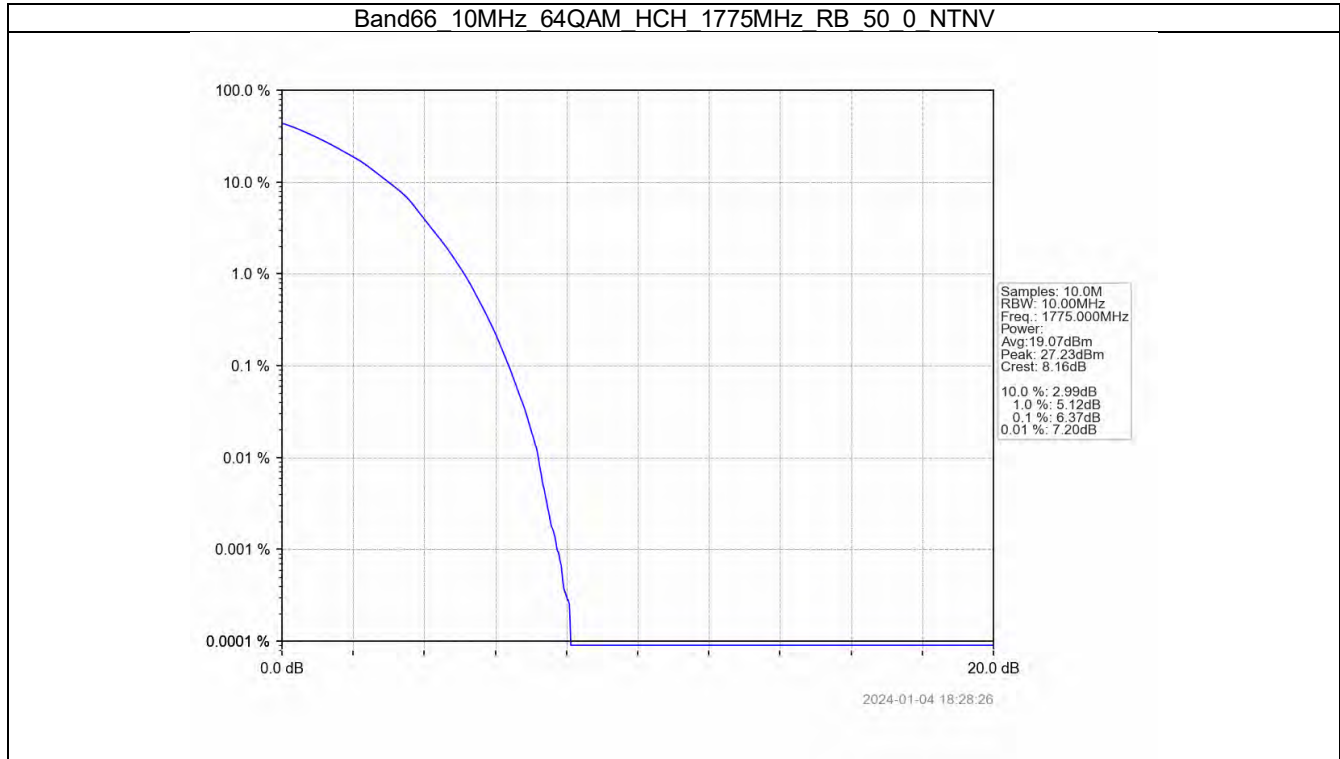
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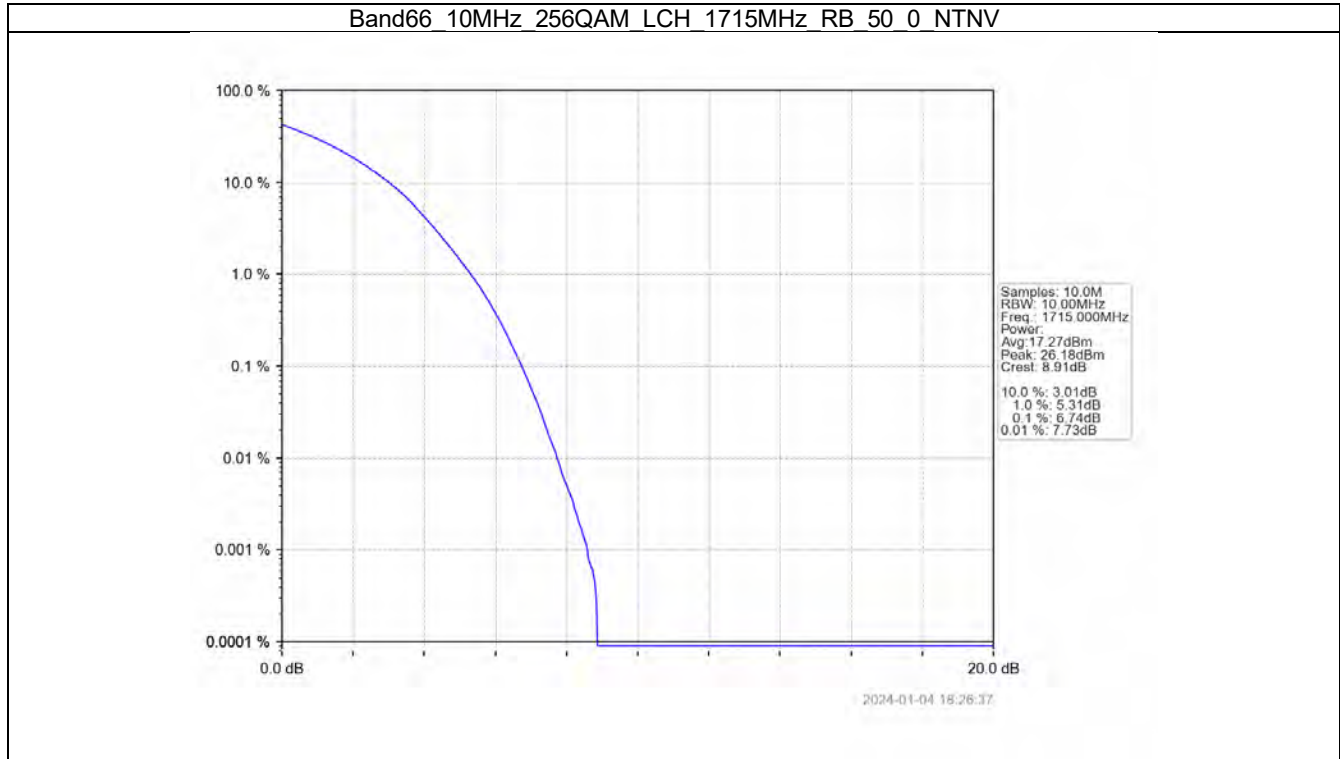
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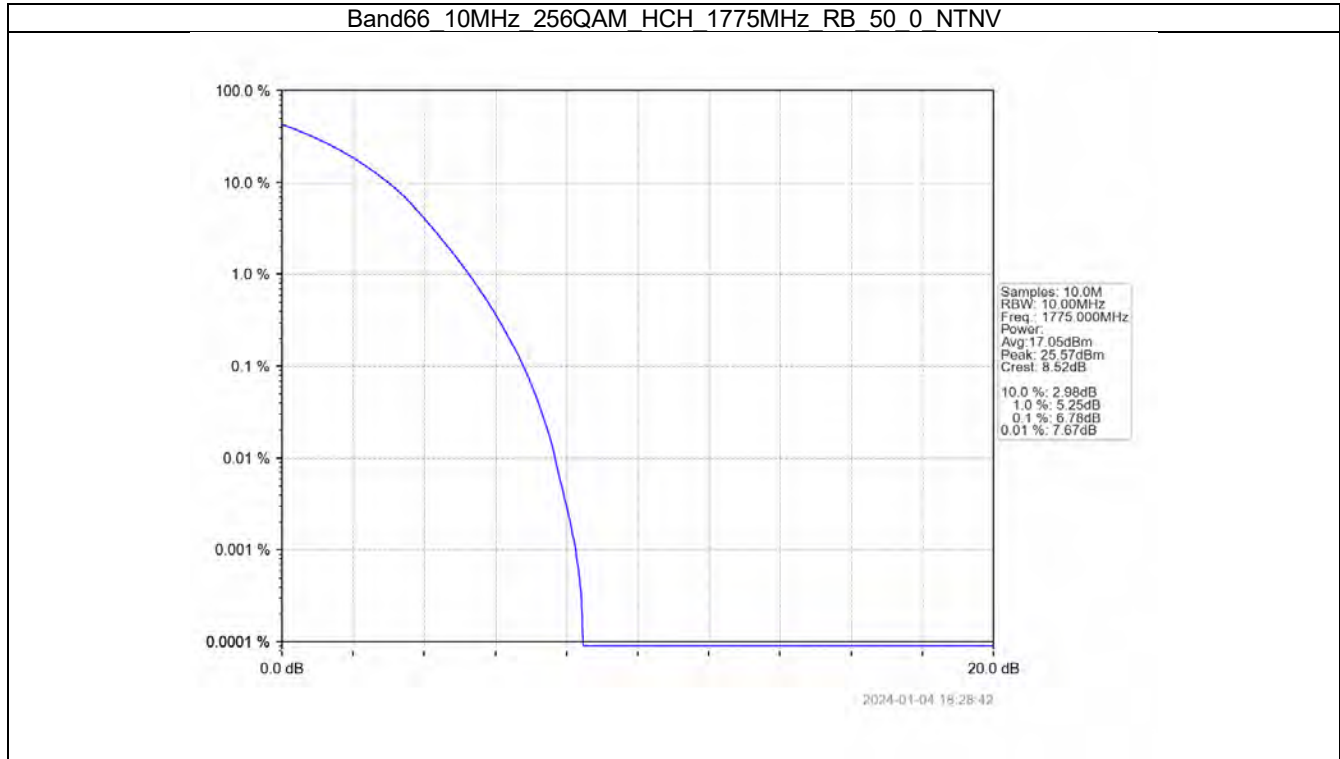
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4.5 B66_15MHz

4.5.1 Test Result

Band: 66 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.45	<=13	Pass
	1745	75	0	5.36	<=13	Pass
	1772.5	75	0	5.28	<=13	Pass
16QAM	1717.5	75	0	6.05	<=13	Pass
	1745	75	0	6.00	<=13	Pass
	1772.5	75	0	5.89	<=13	Pass
64QAM	1717.5	75	0	6.35	<=13	Pass
	1745	75	0	6.32	<=13	Pass
	1772.5	75	0	6.26	<=13	Pass
256QAM	1717.5	75	0	6.70	<=13	Pass
	1745	75	0	6.70	<=13	Pass
	1772.5	75	0	6.64	<=13	Pass



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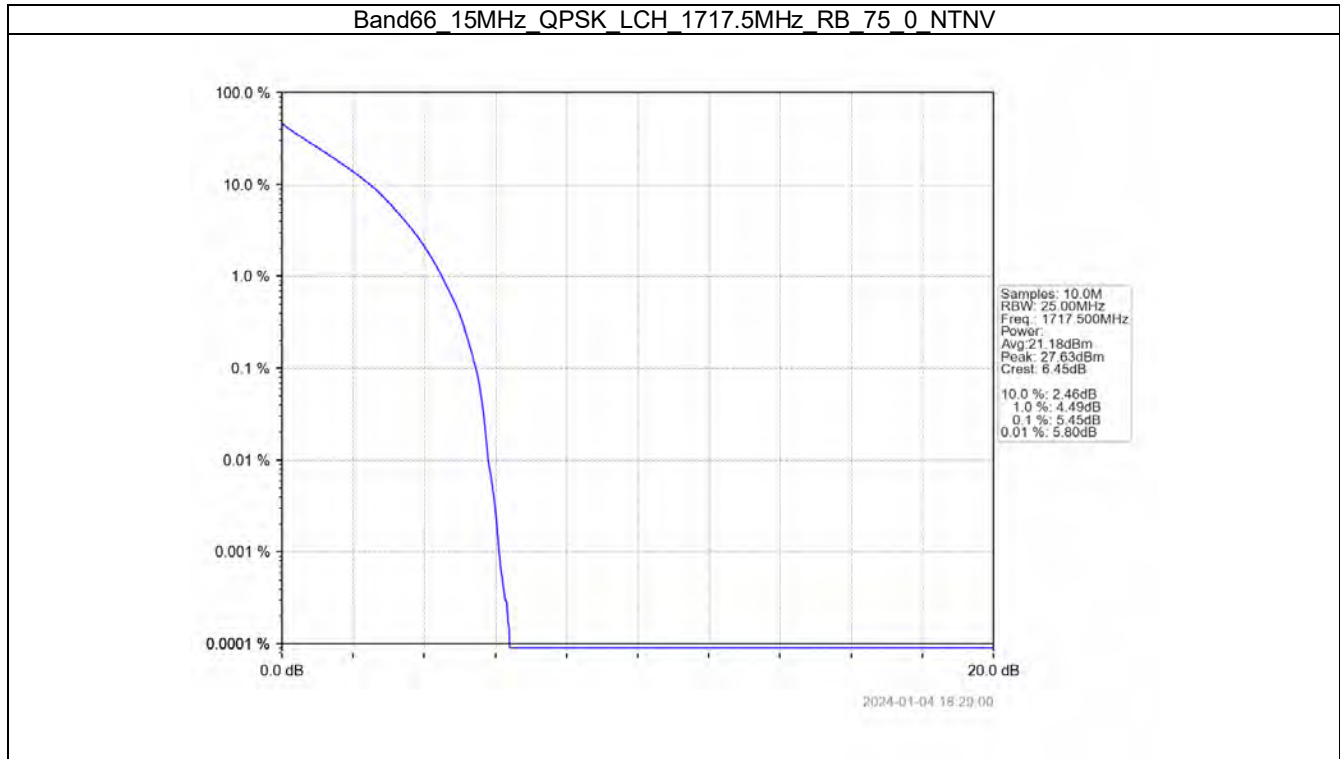
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4.5.2 Test Graph



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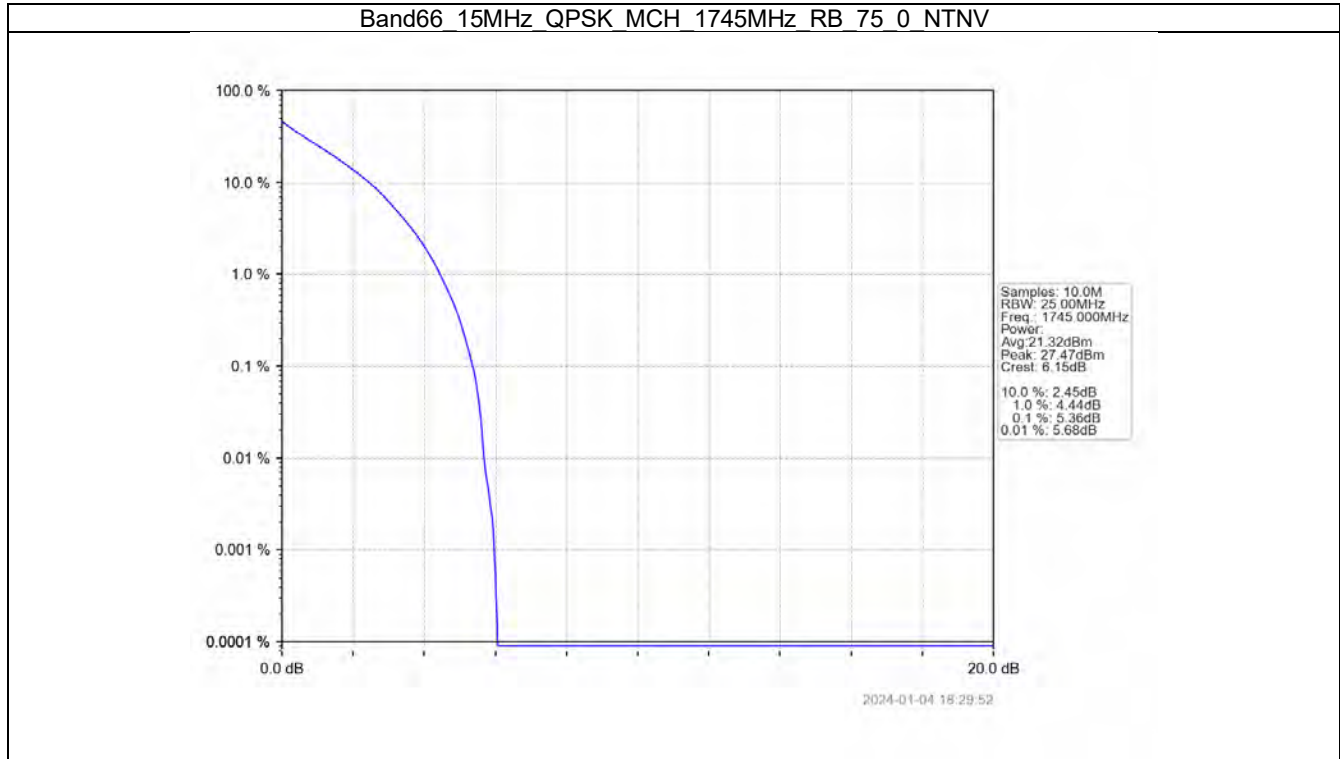
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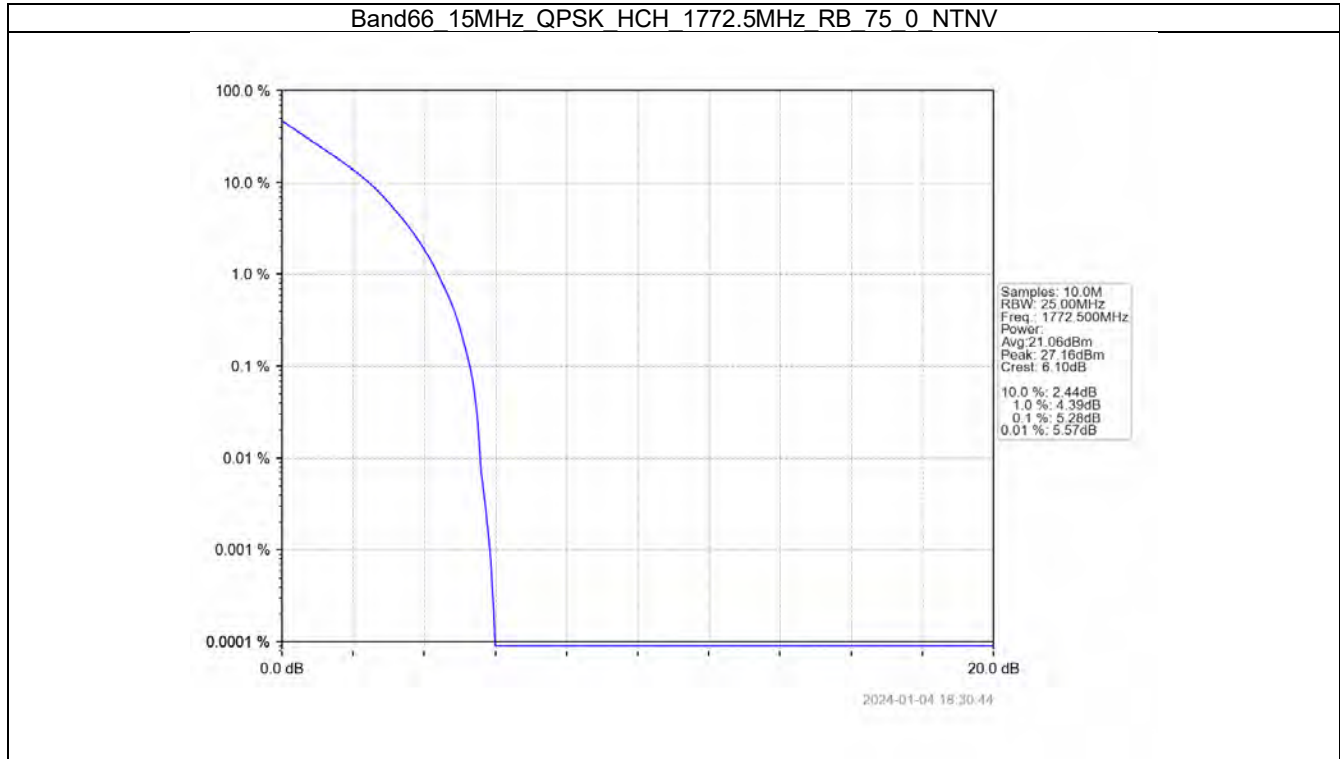
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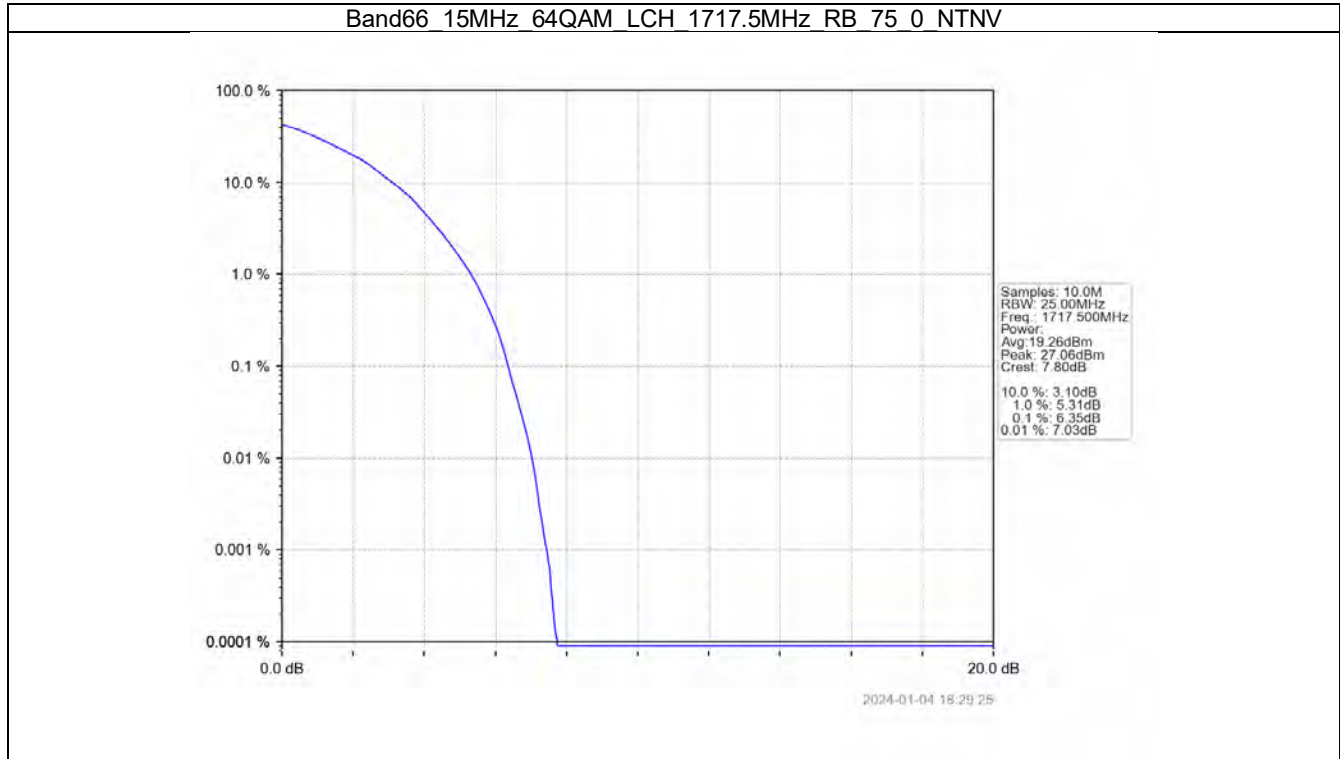
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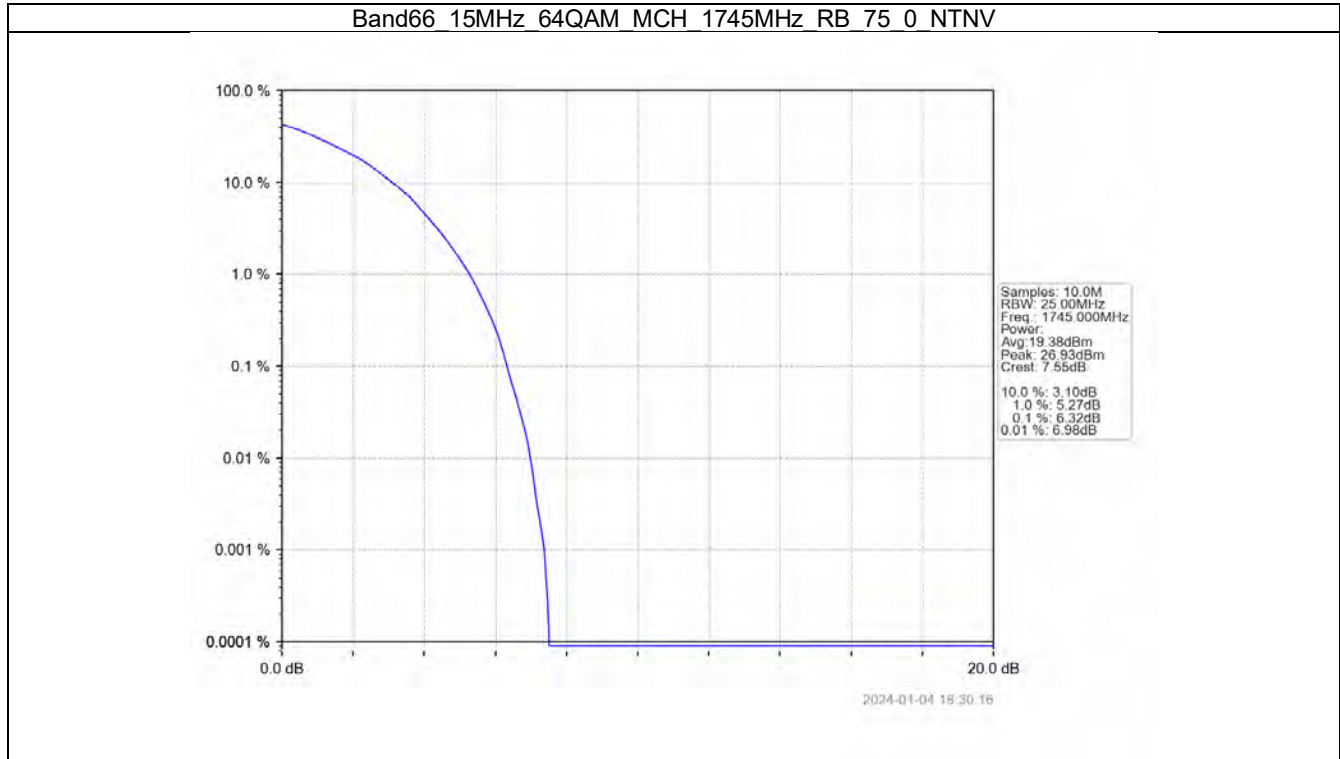
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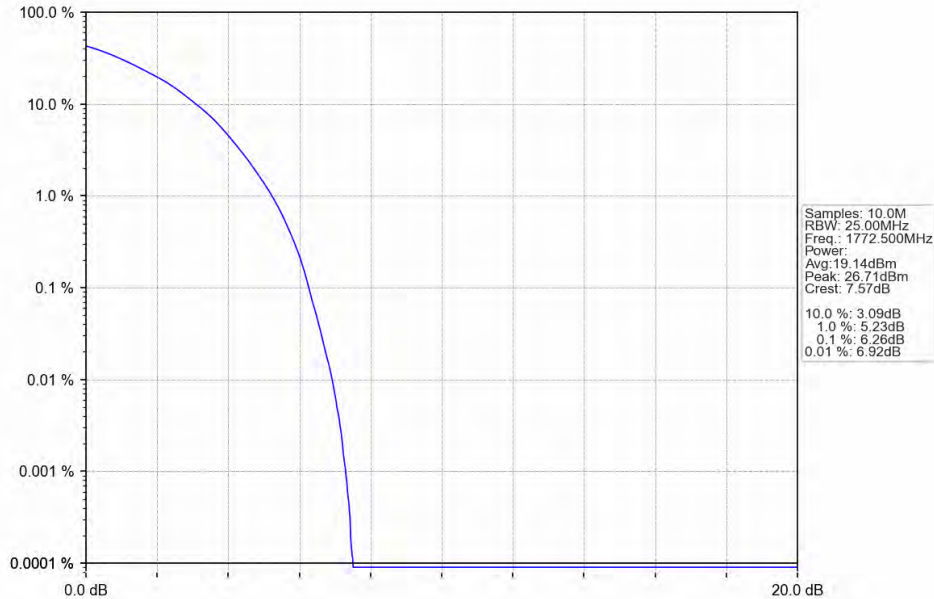


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Band66 15MHz 64QAM HCH 1772.5MHz RB 75 0 NTN



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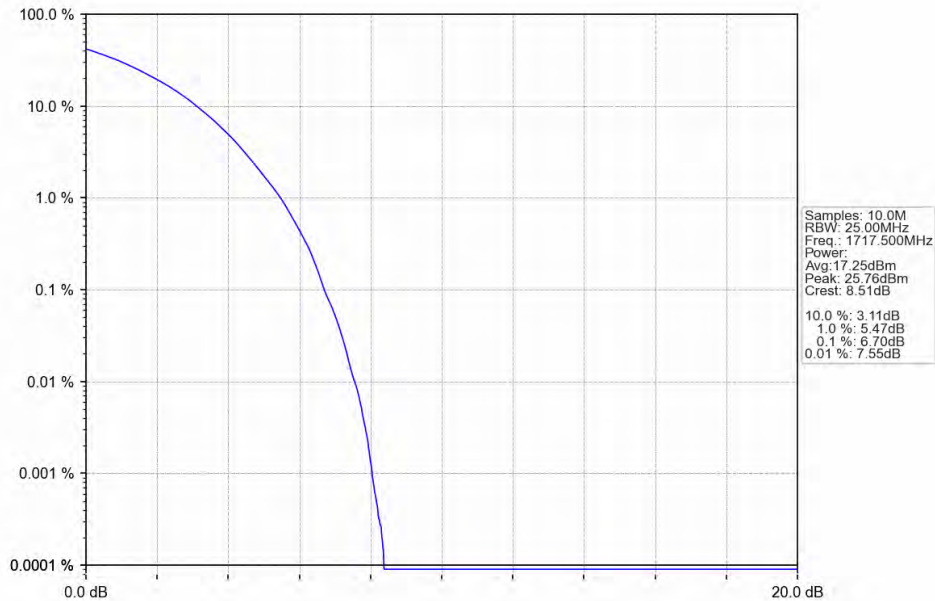


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Band66 15MHz 256QAM LCH 1717.5MHz RB 75 0 NTN



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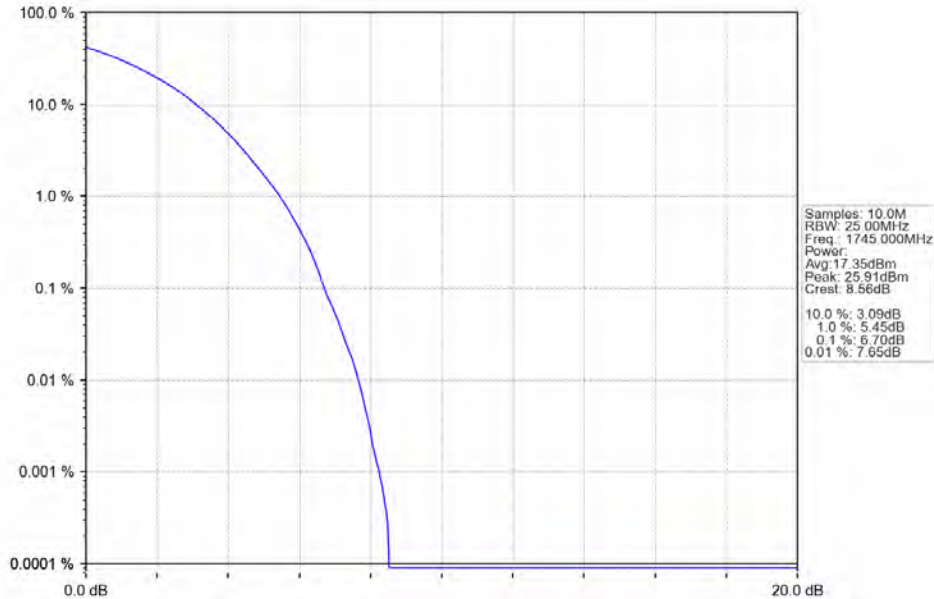


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Band66 15MHz 256QAM MCH 1745MHz RB 75 0 NTN



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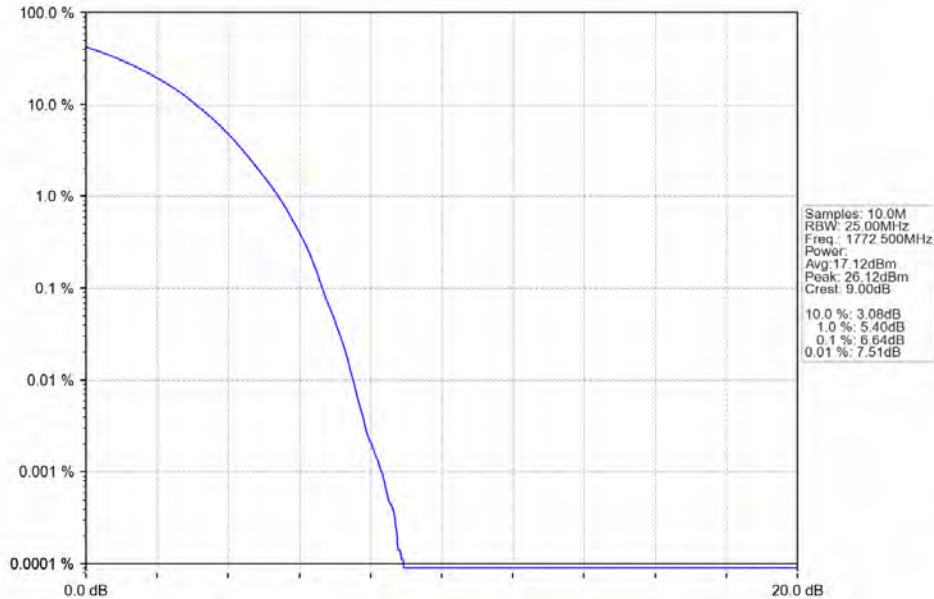


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Band66 15MHz 256QAM HCH 1772.5MHz RB 75 0 NTNv



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4.6 B66_20MHz

4.6.1 Test Result

Band: 66 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.22	<=13	Pass
	1745	100	0	5.24	<=13	Pass
	1770	100	0	5.22	<=13	Pass
16QAM	1720	100	0	6.00	<=13	Pass
	1745	100	0	6.00	<=13	Pass
	1770	100	0	5.92	<=13	Pass
64QAM	1720	100	0	6.37	<=13	Pass
	1745	100	0	6.35	<=13	Pass
	1770	100	0	6.28	<=13	Pass
256QAM	1720	100	0	6.71	<=13	Pass
	1745	100	0	6.69	<=13	Pass
	1770	100	0	6.61	<=13	Pass



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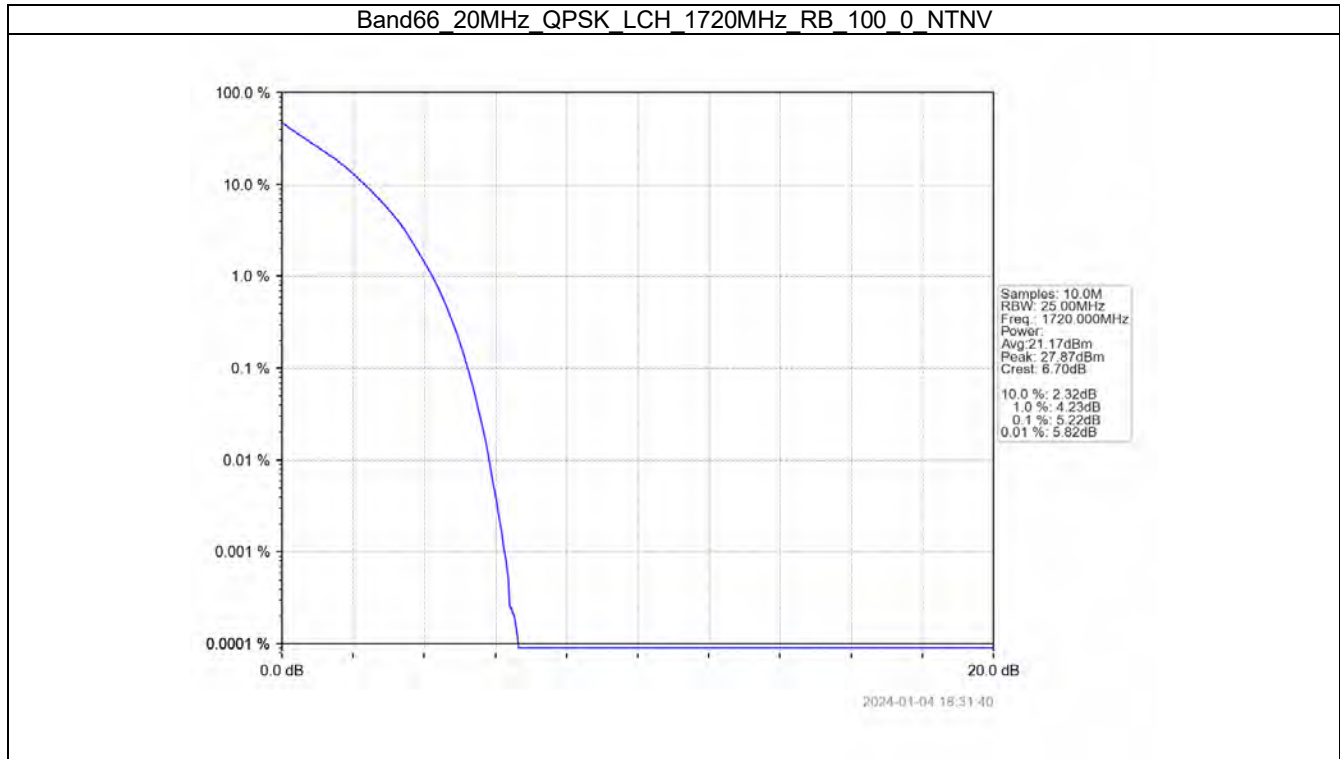
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4.6.2 Test Graph



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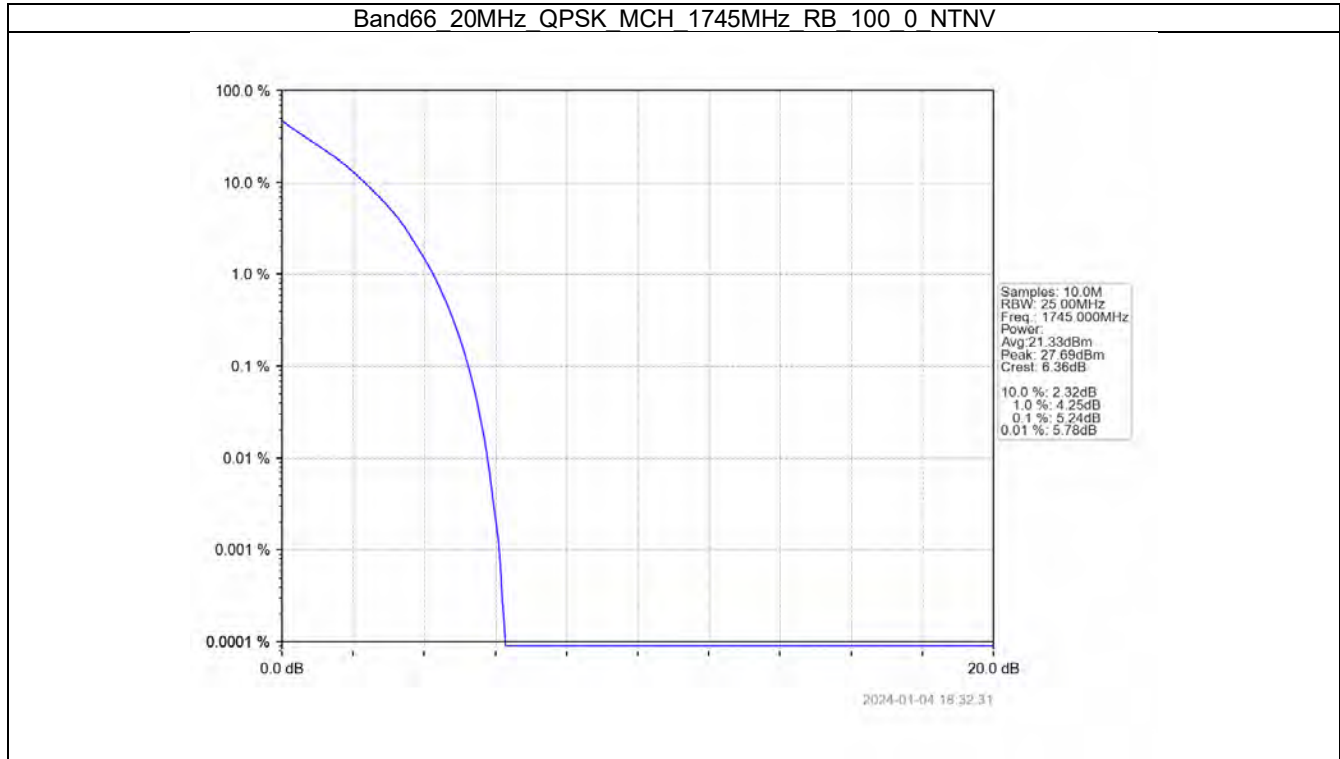
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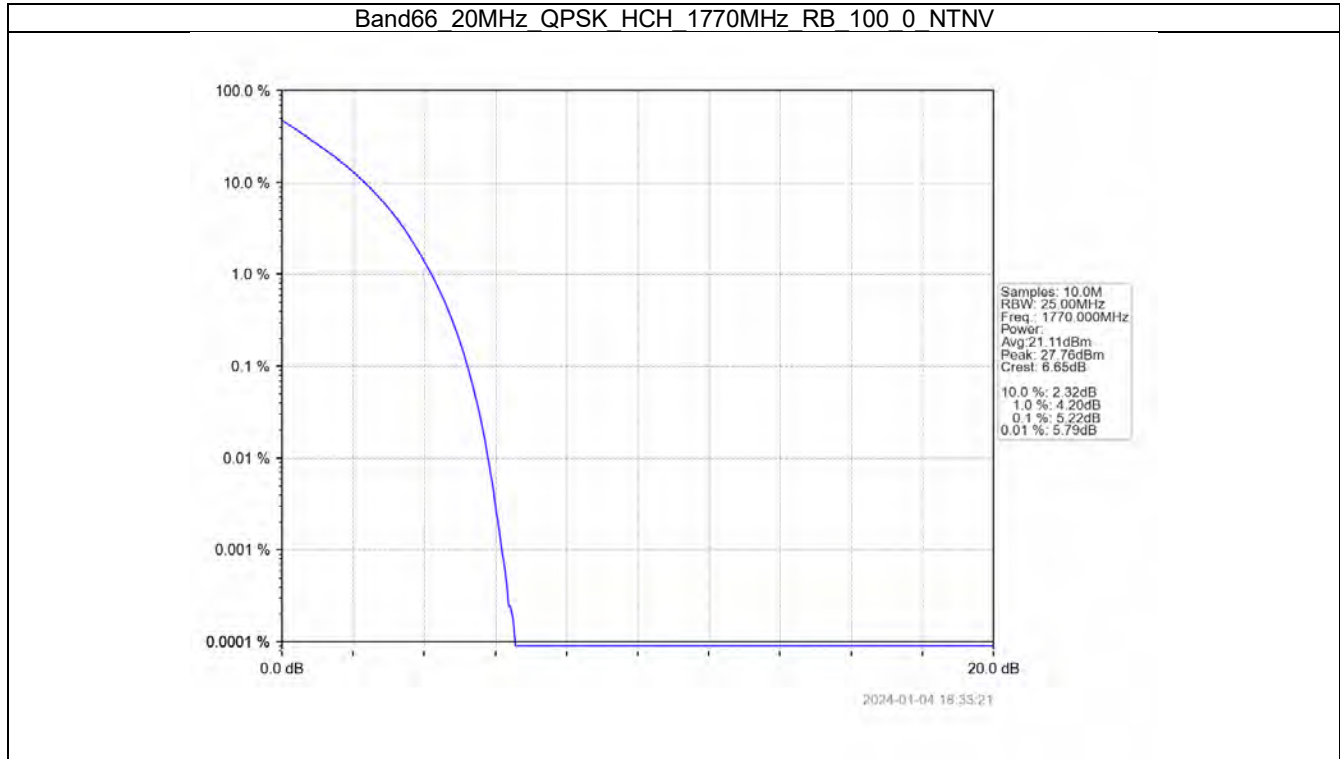
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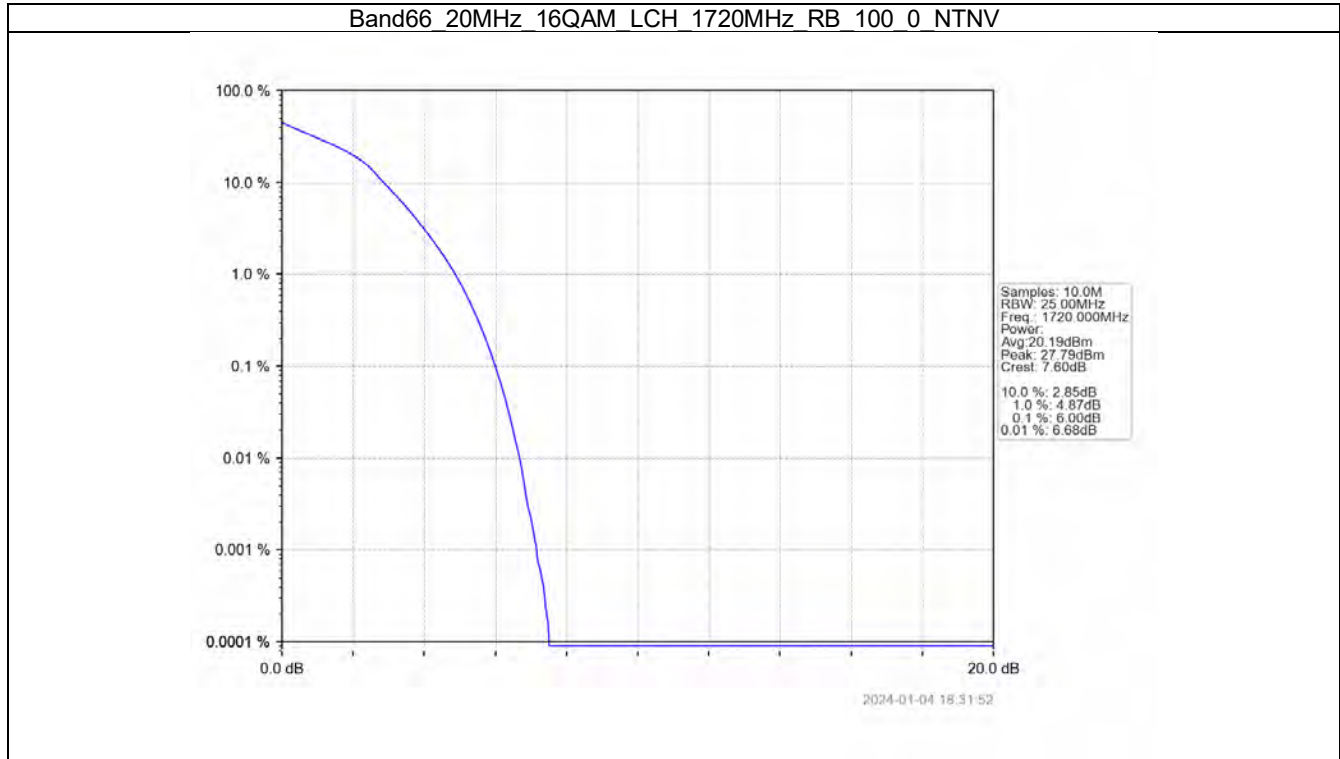
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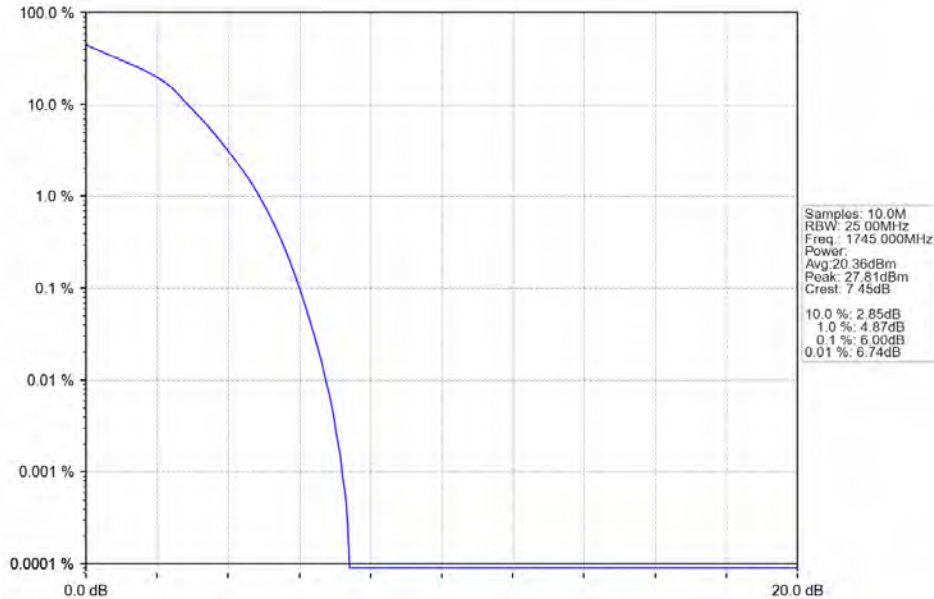


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Band66 20MHz 16QAM MCH 1745MHz RB 100 0 NTN



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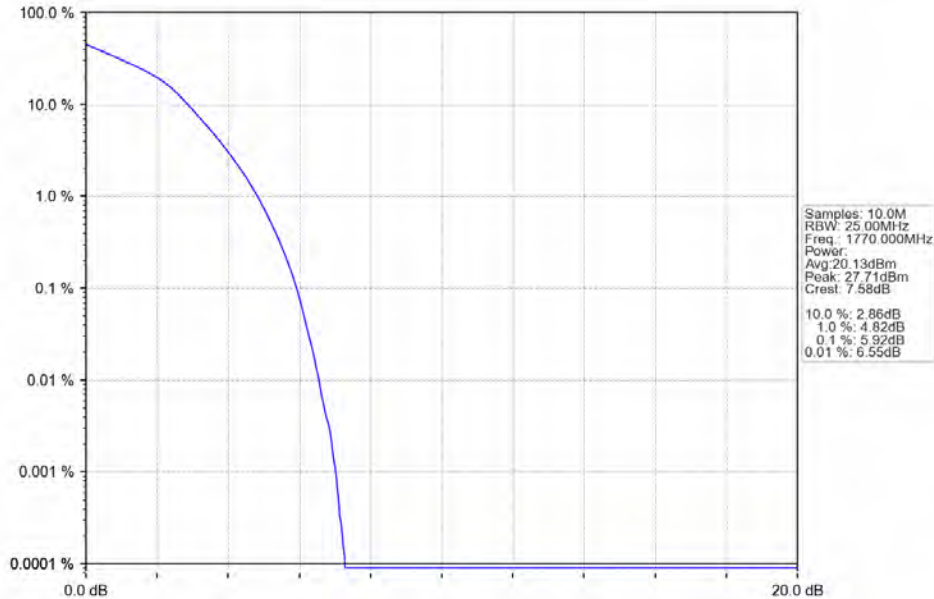


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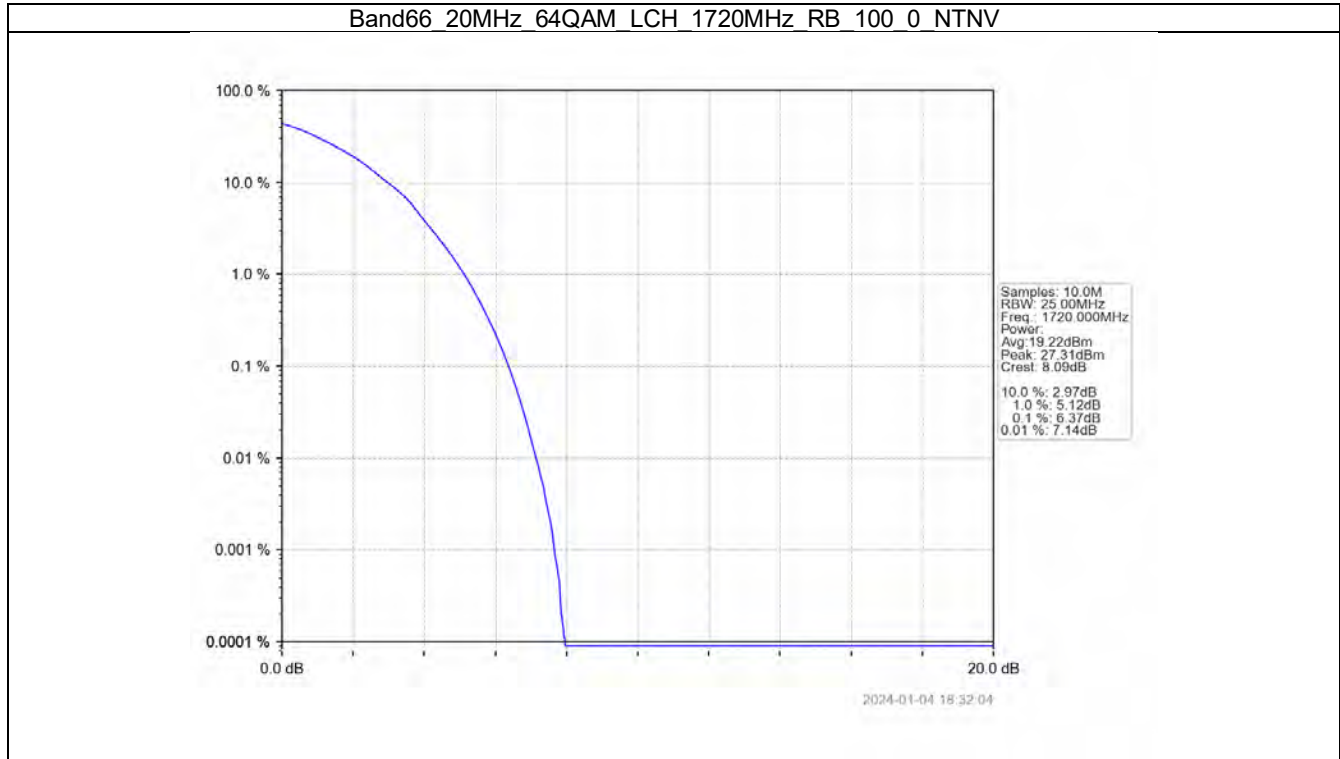
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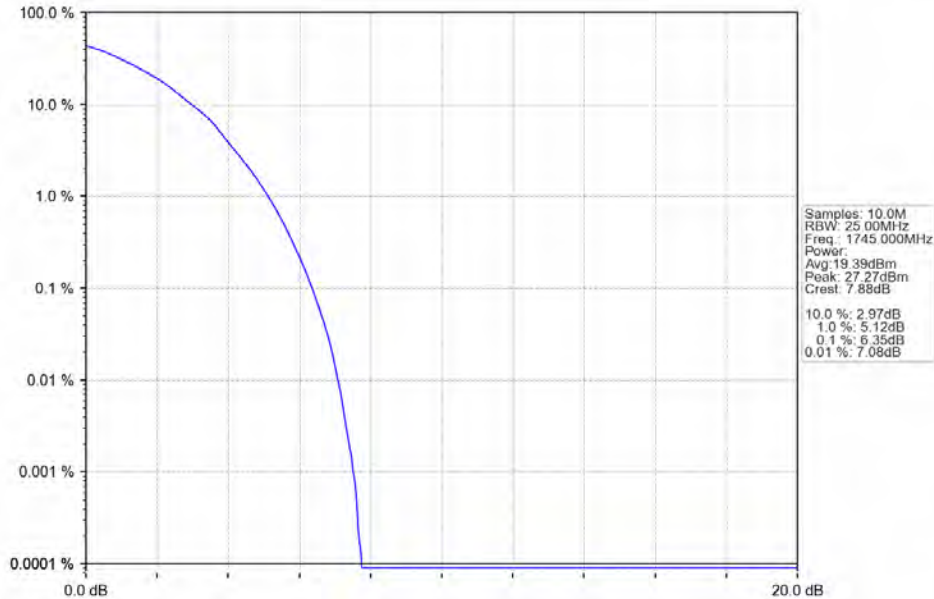


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Band66 20MHz 64QAM MCH 1745MHz RB 100 0 NTN



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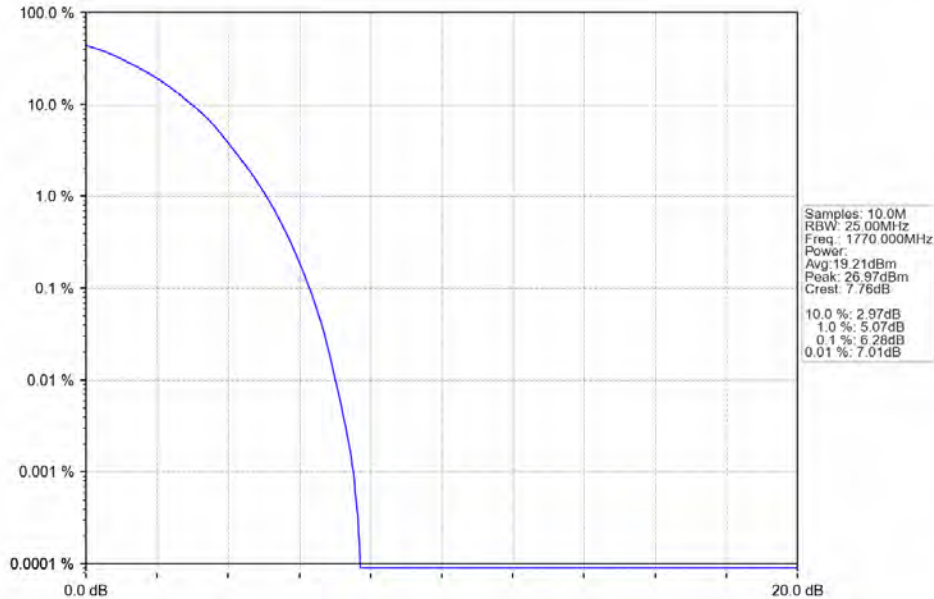


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Band66 20MHz 64QAM HCH 1770MHz RB 100 0 NTN



Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 1770.000MHz
 Power:
 Avg: 19.21dBm
 Peak: 26.97dBm
 Crest: 7.76dB

10.0 %: 2.97dB
 1.0 %: 5.07dB
 0.1 %: 6.28dB
 0.01 %: 7.01dB

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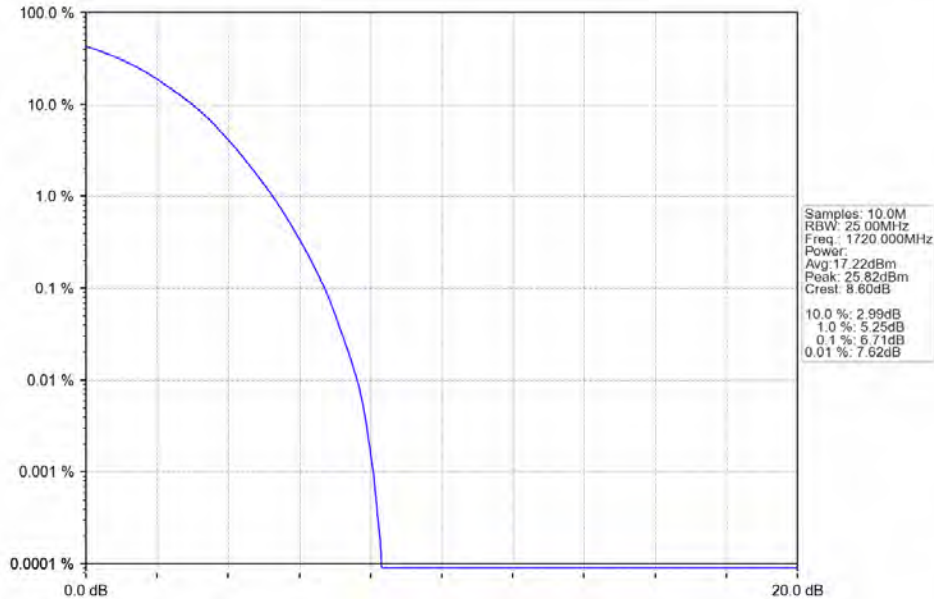


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Band66 20MHz 256QAM LCH 1720MHz RB 100 0 NTN



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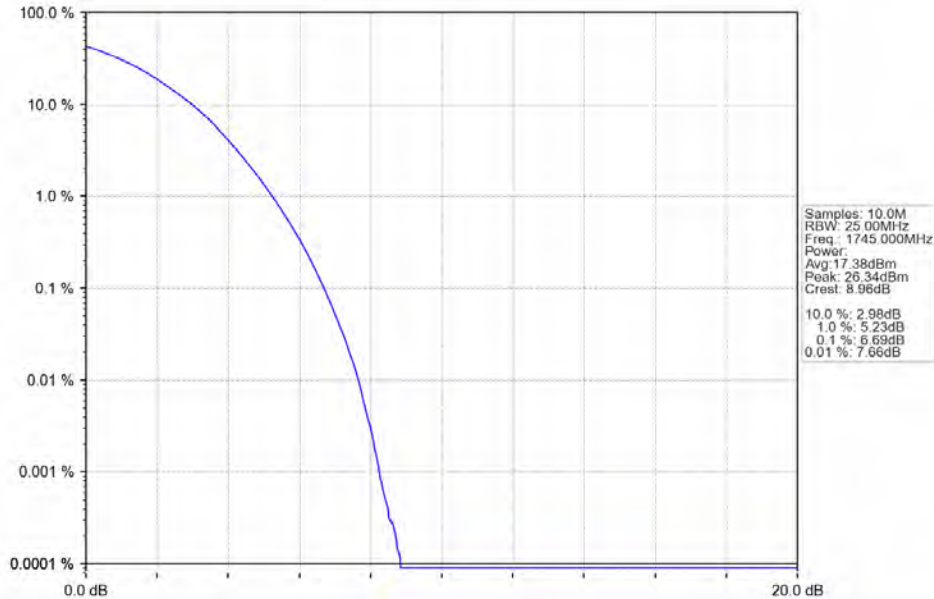
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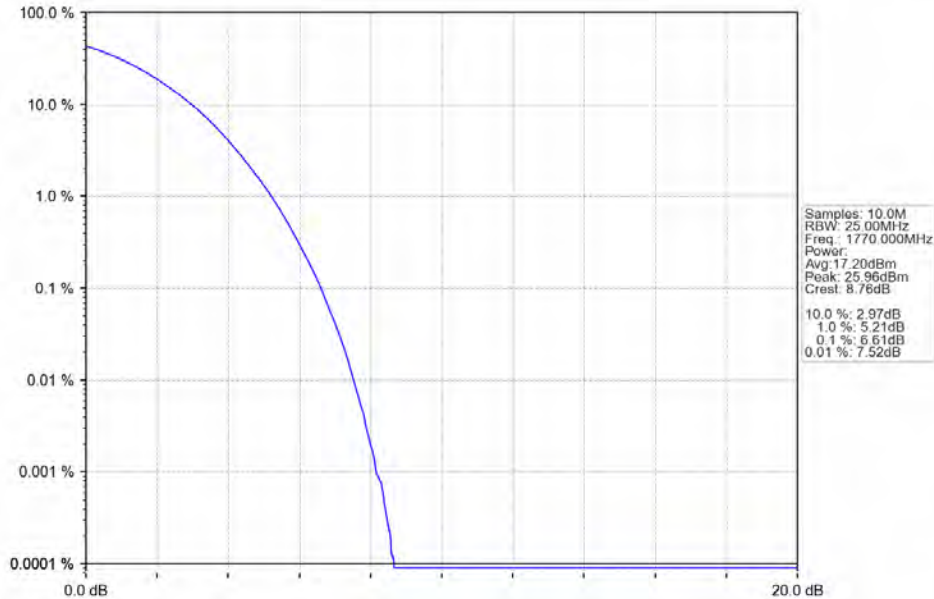
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Band66 20MHz 256QAM HCH 1770MHz RB 100 0 NTN



Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 1770.000MHz
 Power:
 Avg: 17.20dBm
 Peak: 25.96dBm
 Crest: 8.76dB
 10.0 %: 2.97dB
 1.0 %: 5.21dB
 0.1 %: 6.61dB
 0.01 %: 7.52dB

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5. Spurious Emission & Band Edges

5.1 B66_1.4MHz

5.1.1 Test Result

Band: 66 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
	1779.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass



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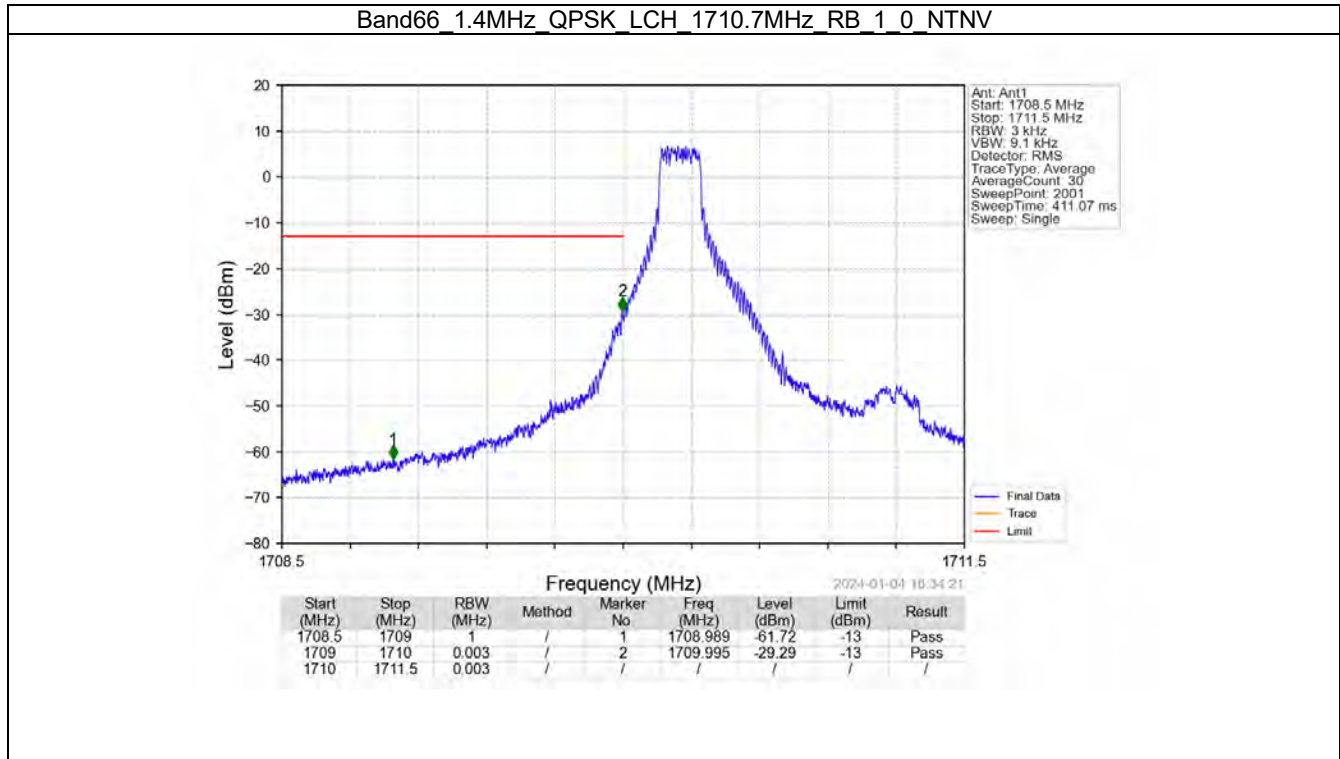
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5.1.2 Test Graph



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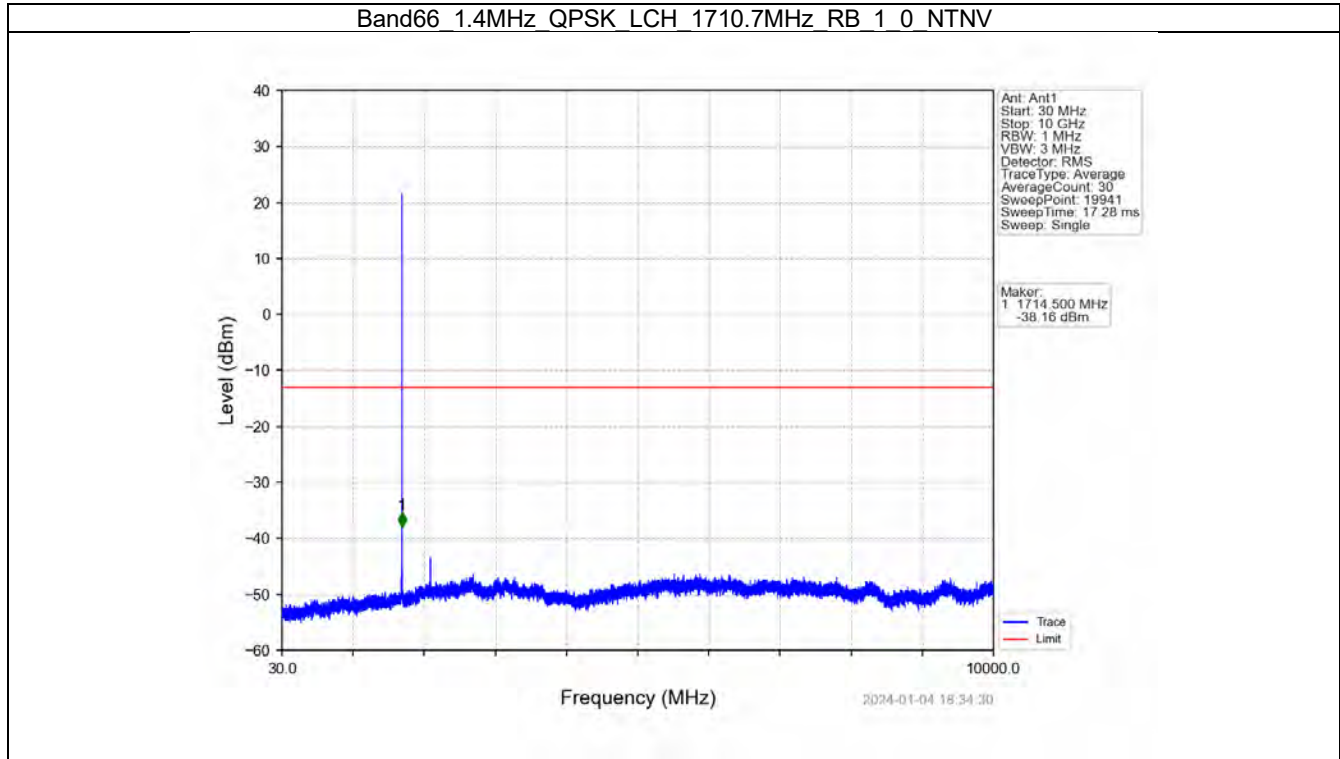
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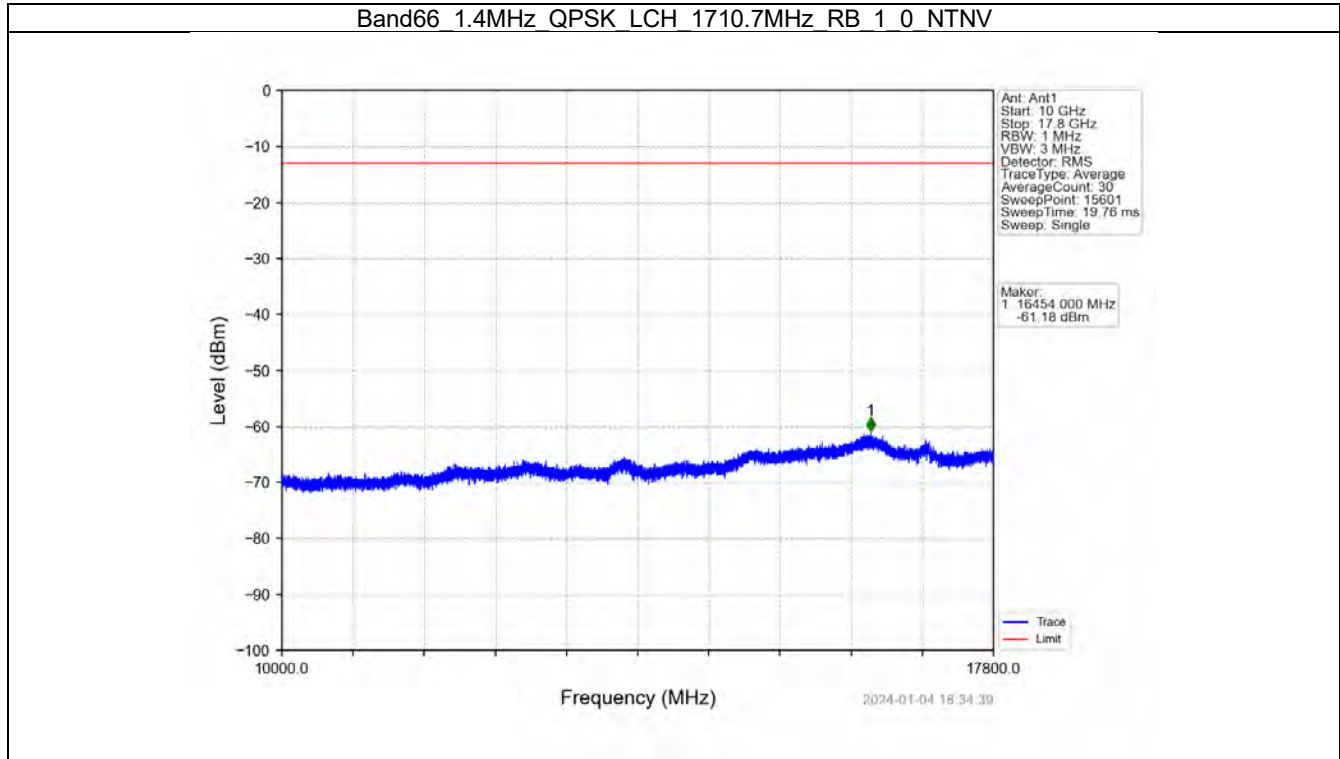
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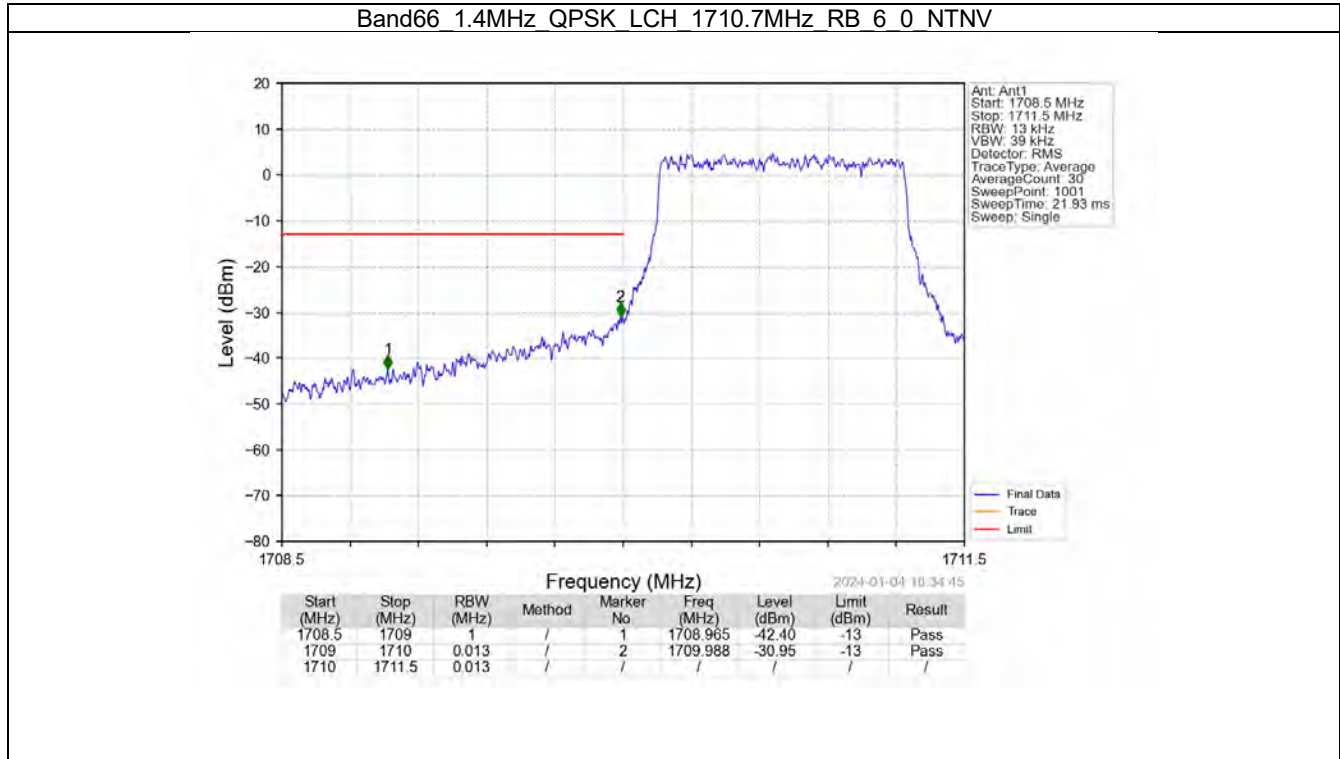


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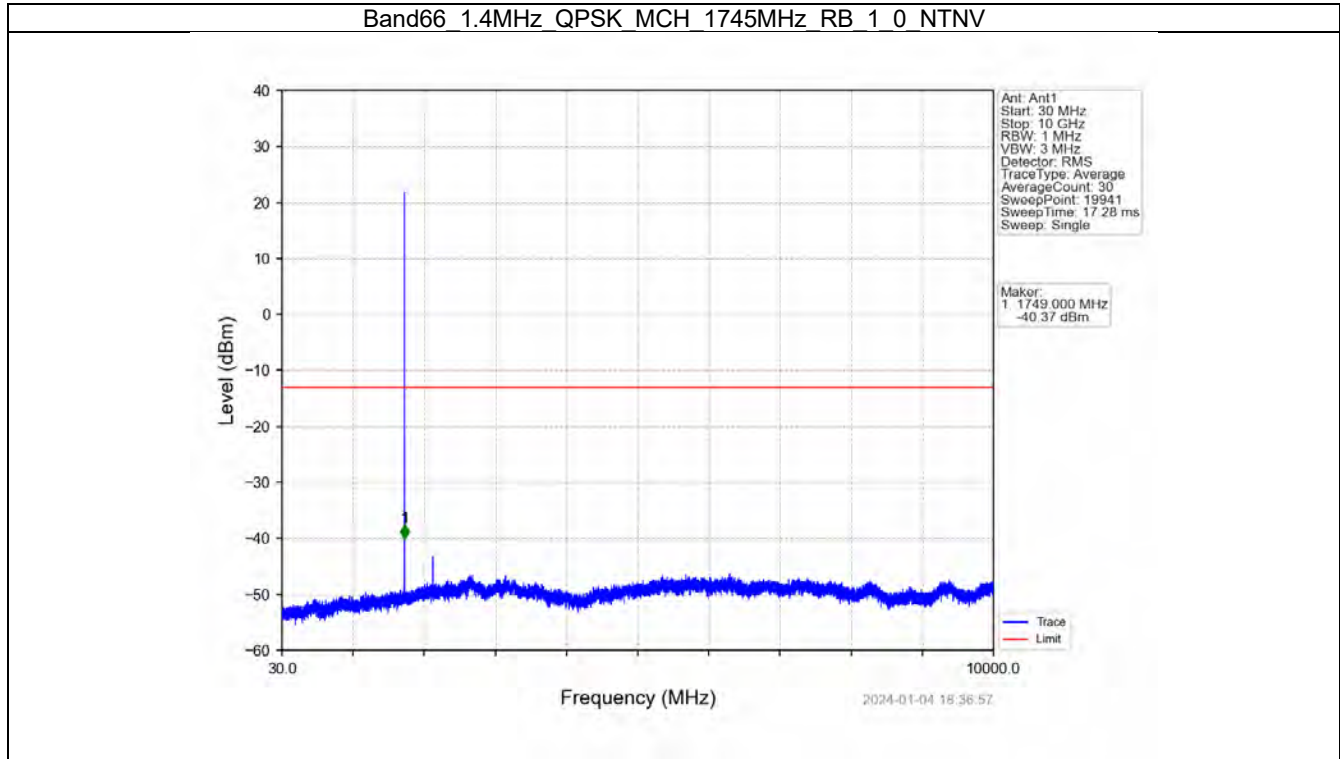
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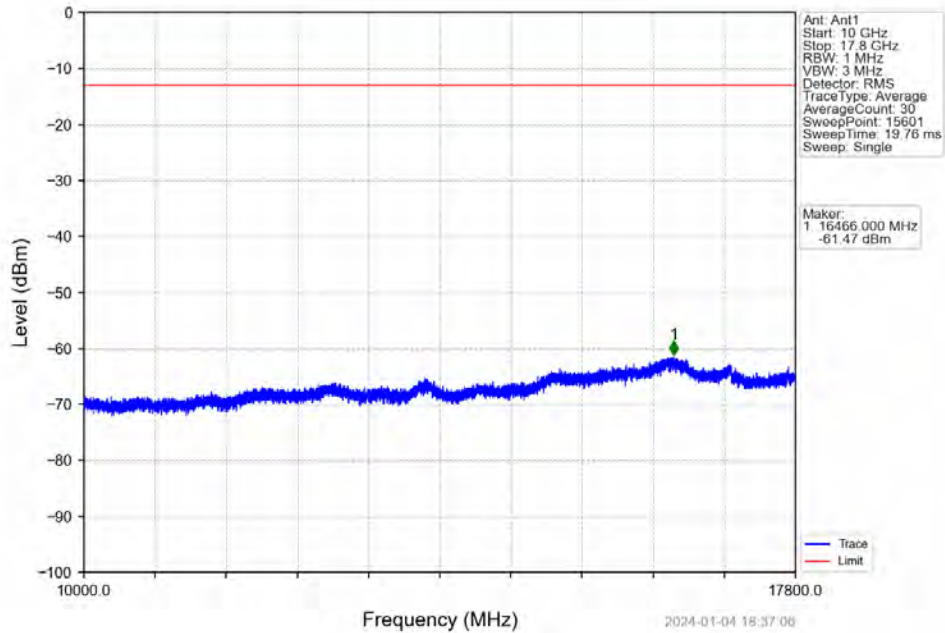


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Band66 1.4MHz QPSK MCH 1745MHz RB 1 0 NTV



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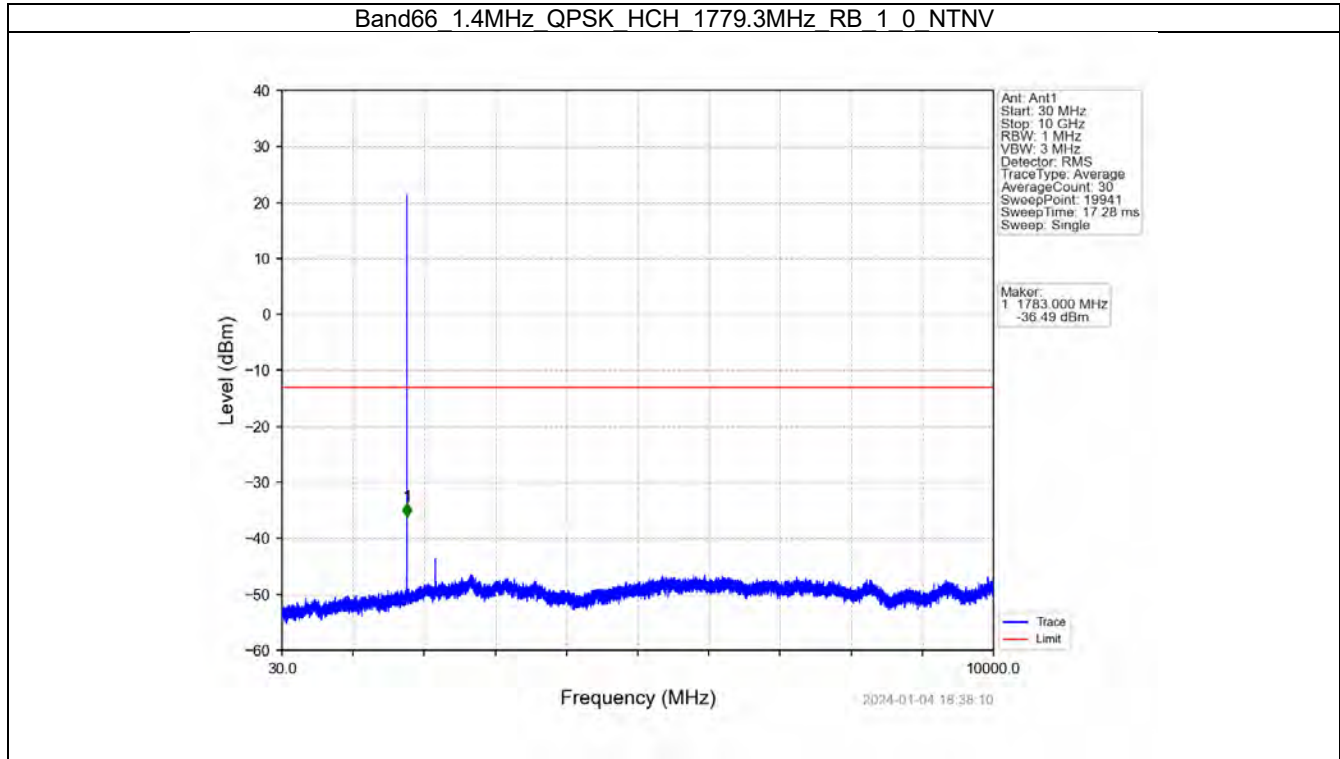
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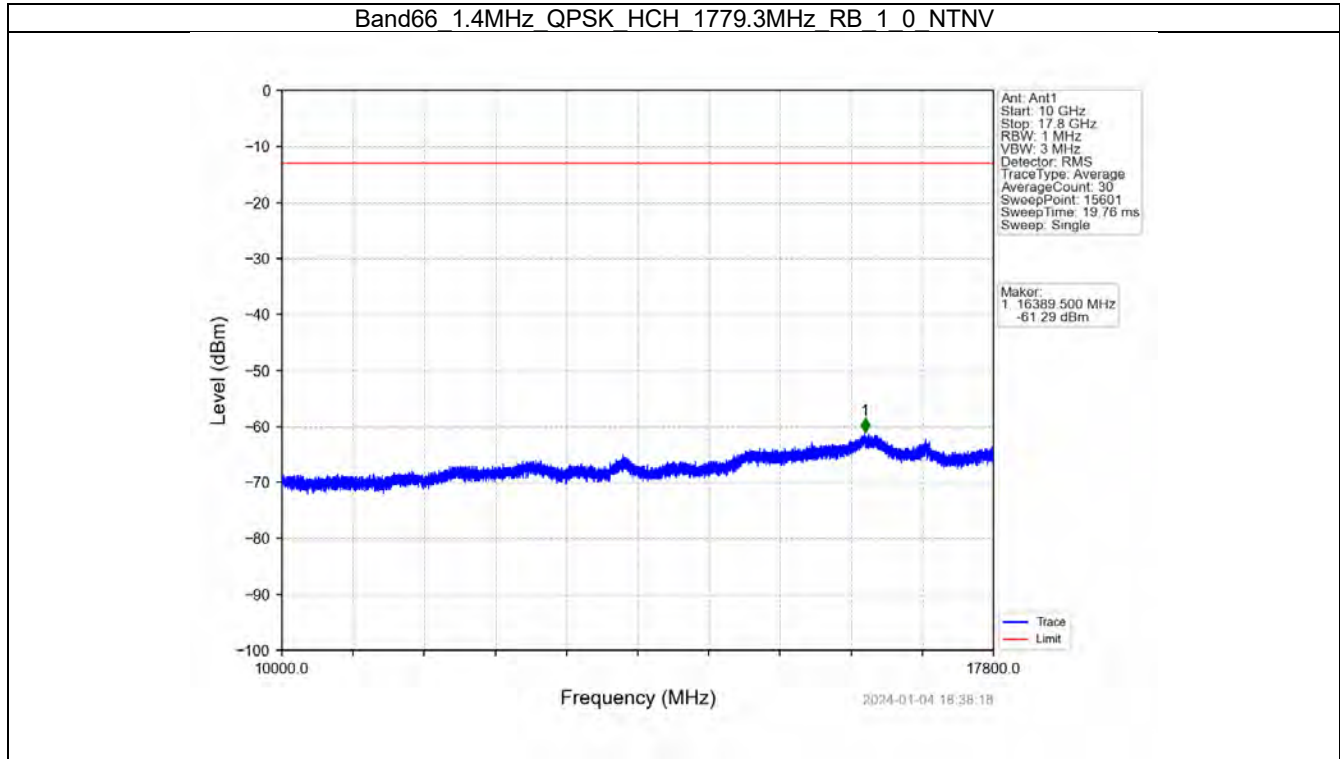
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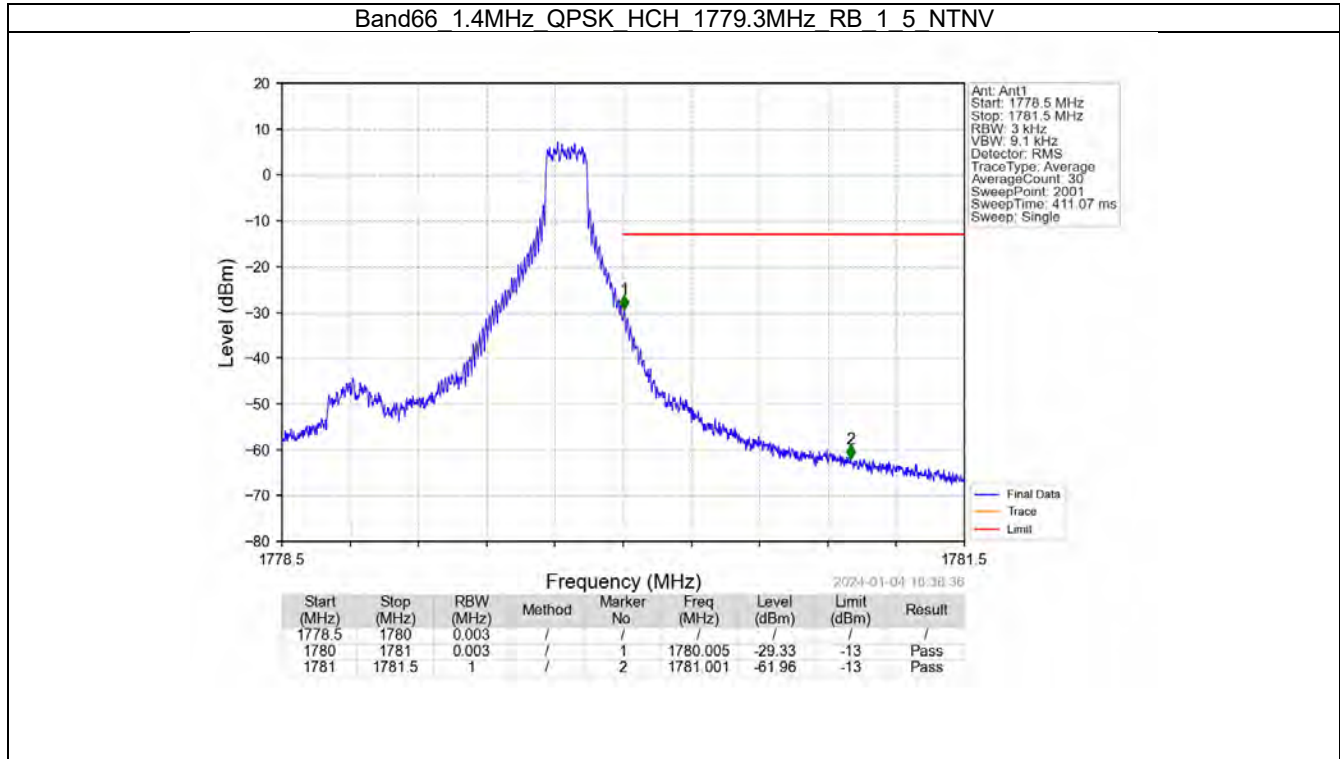
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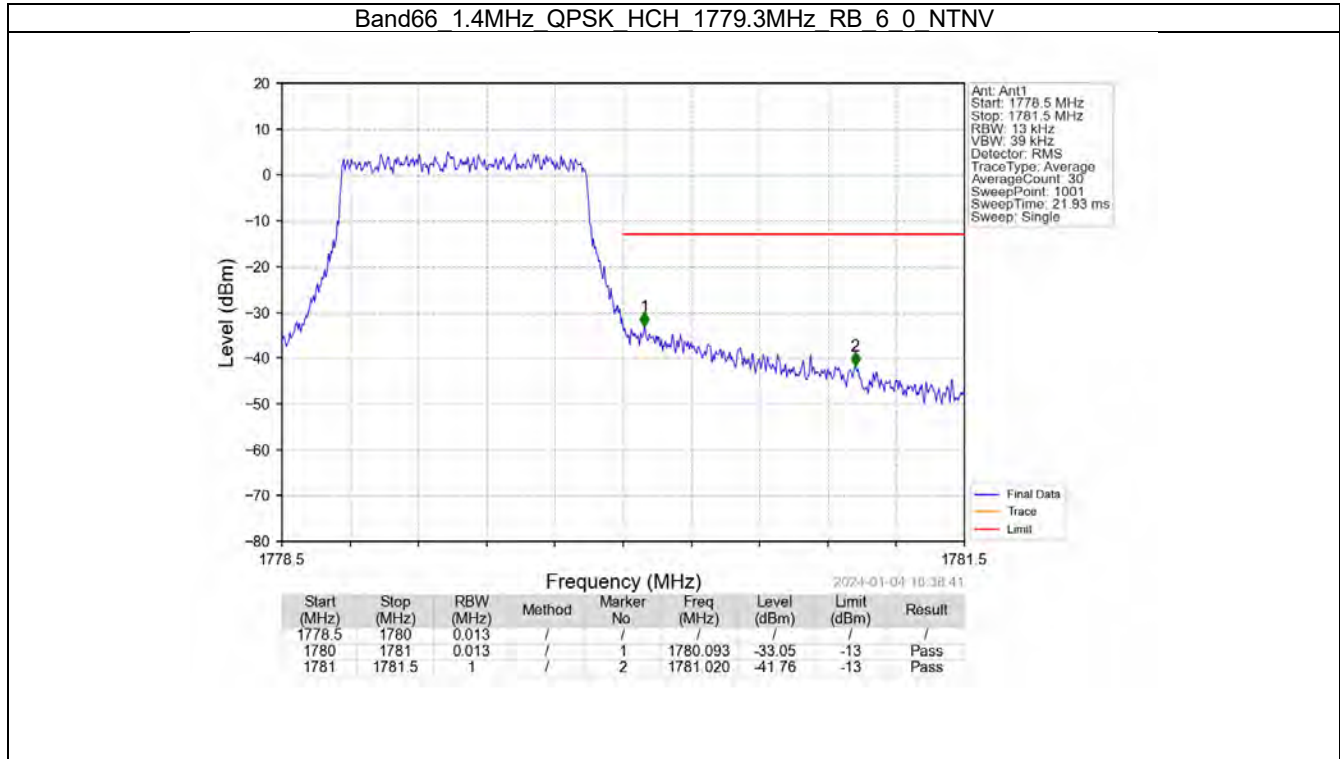
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5.2 B66_3MHz

5.2.1 Test Result

Band: 66 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
	1778.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

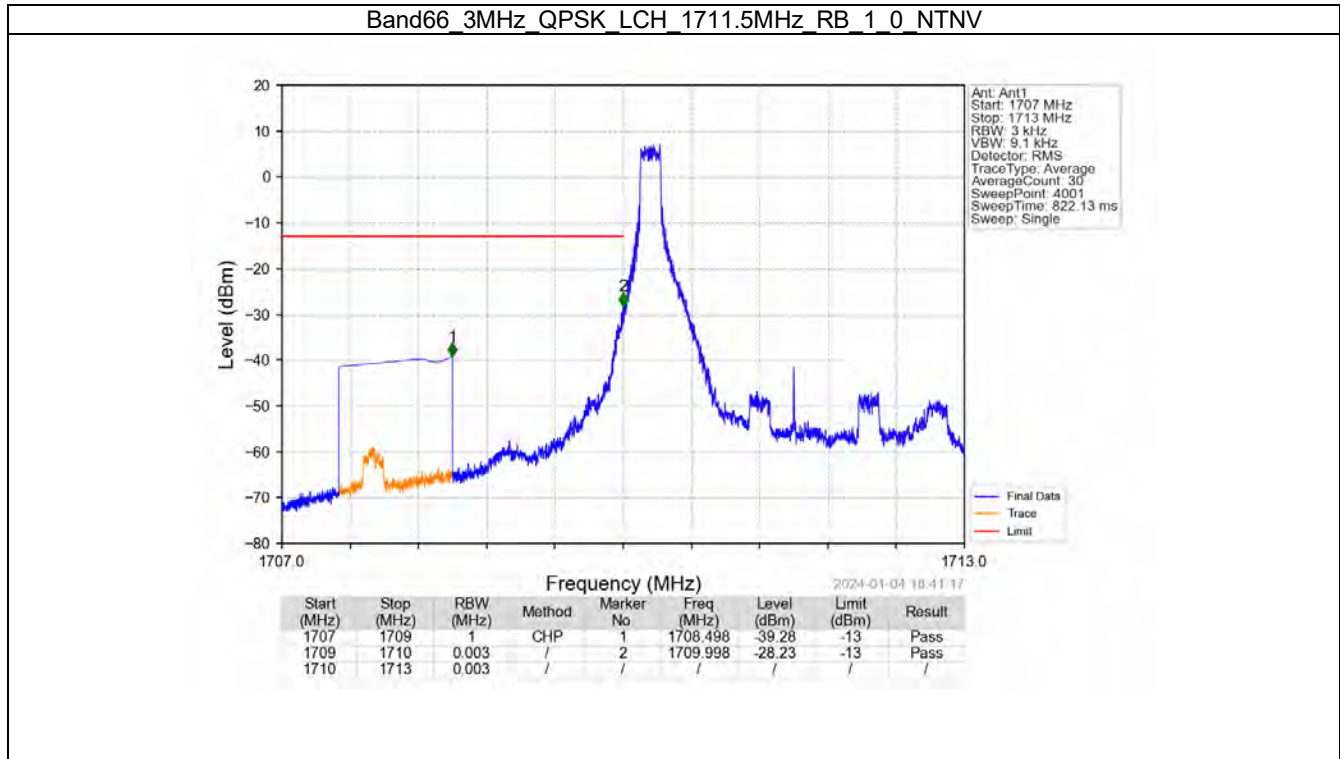


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5.2.2 Test Graph



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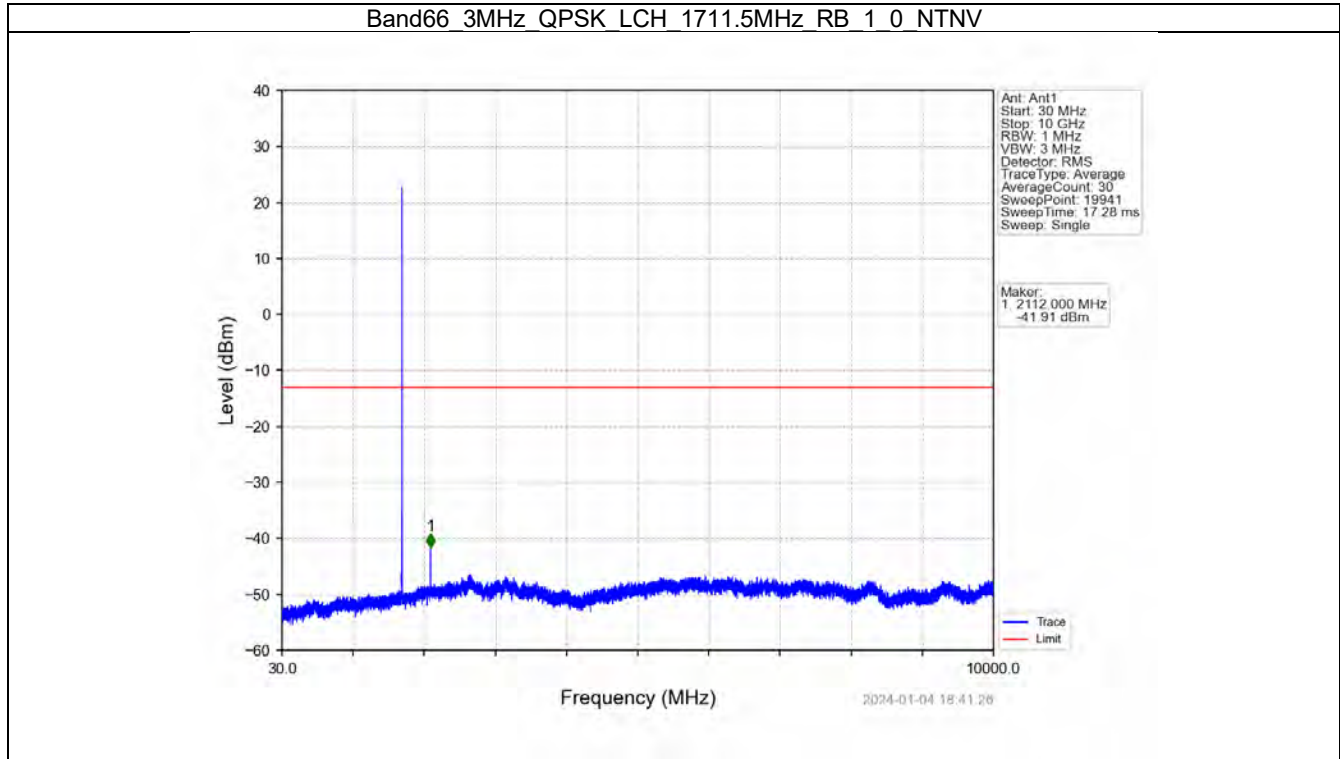
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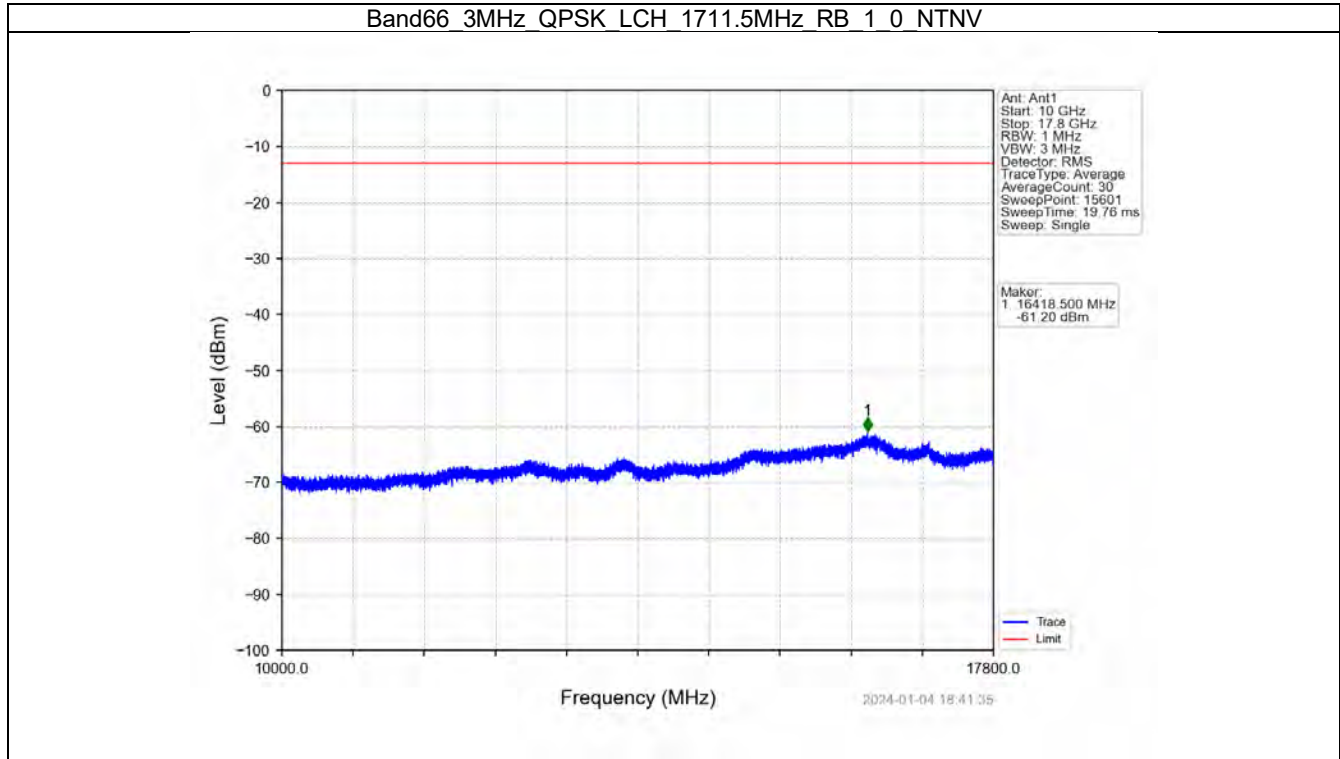
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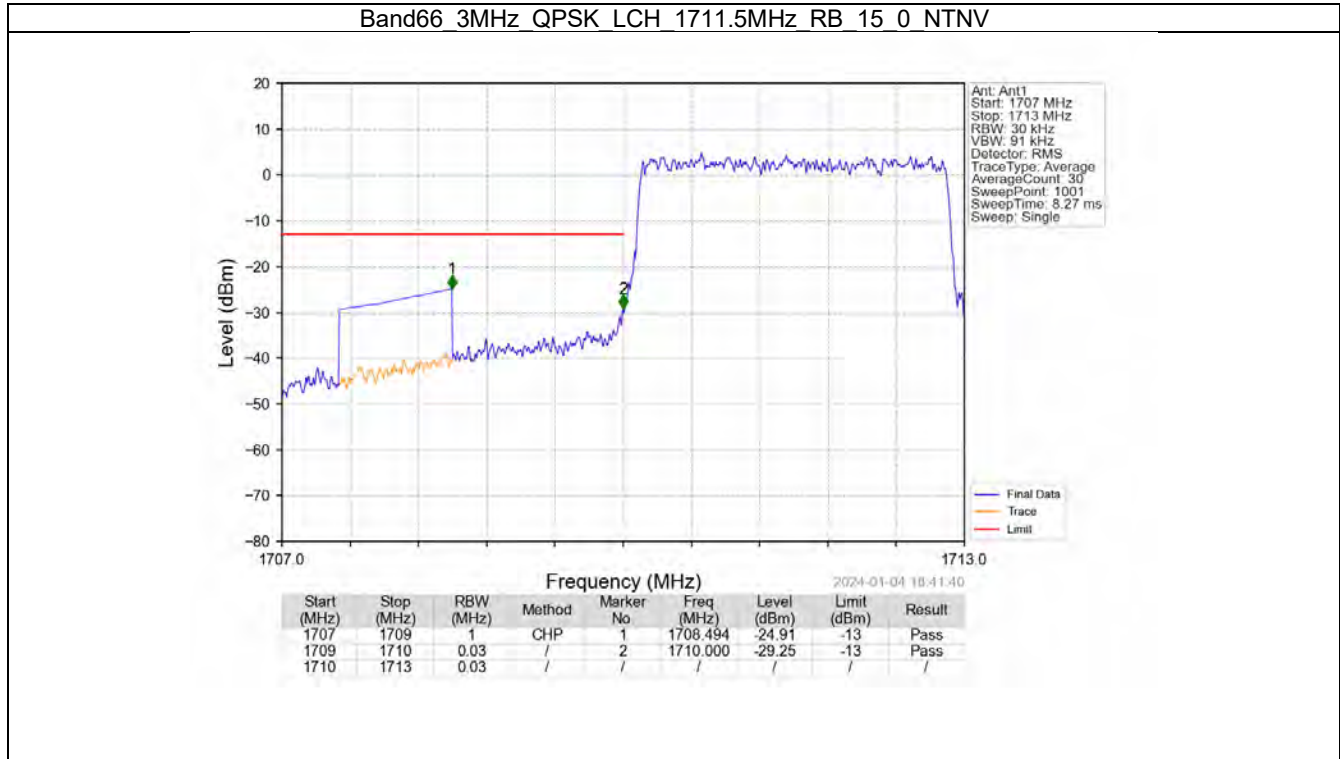
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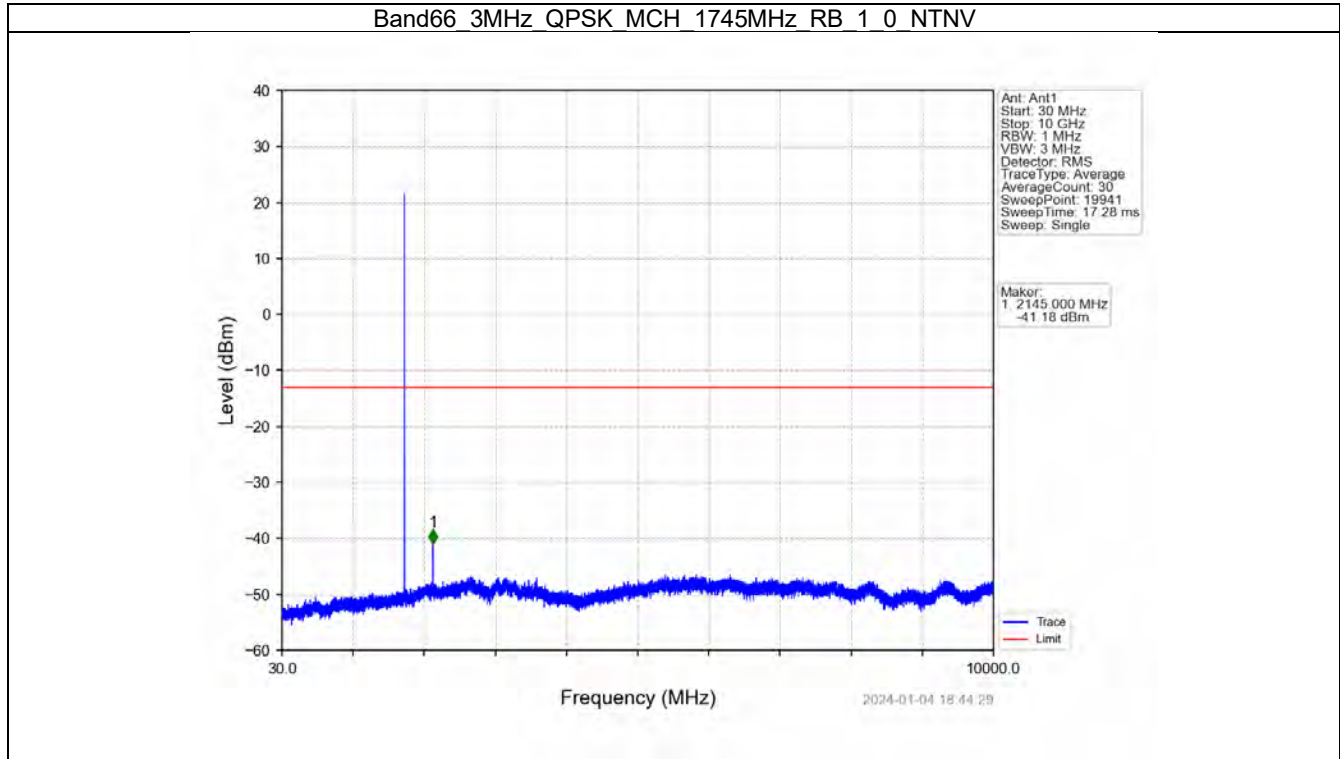
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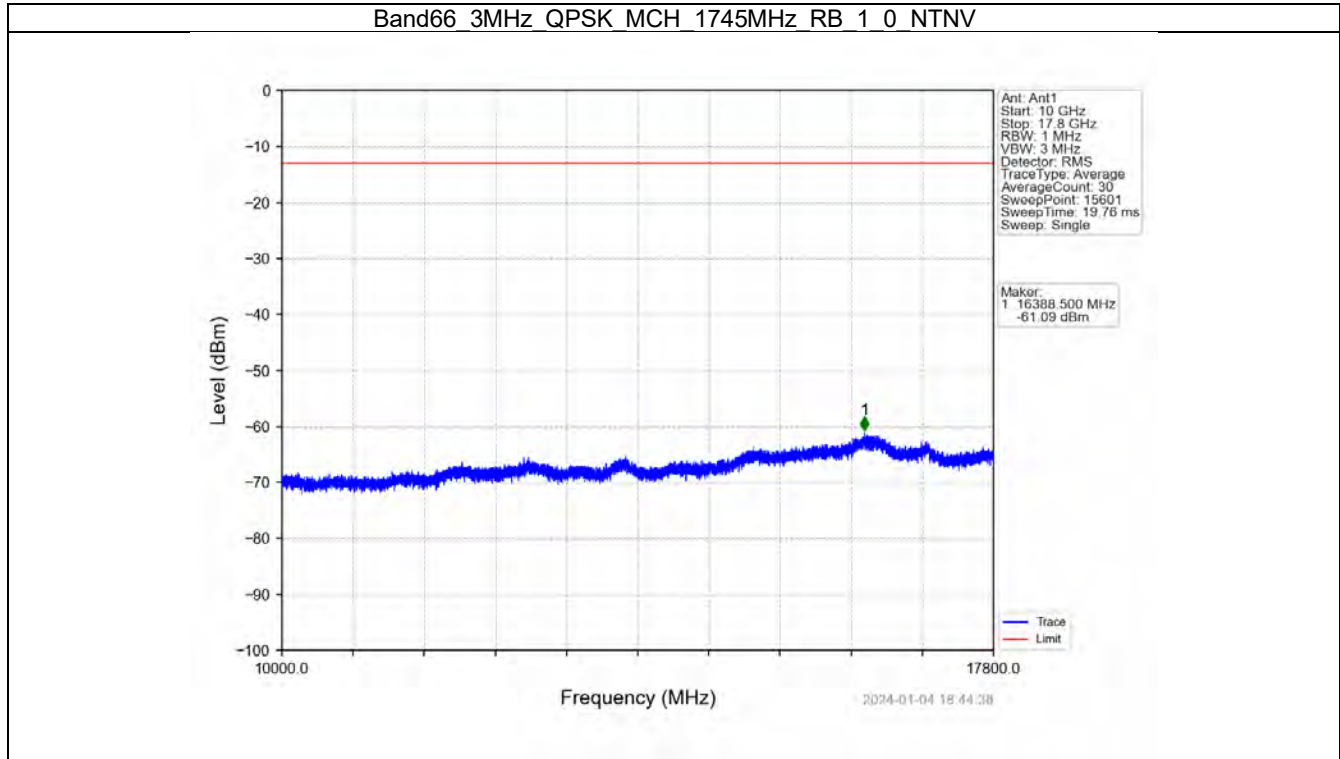
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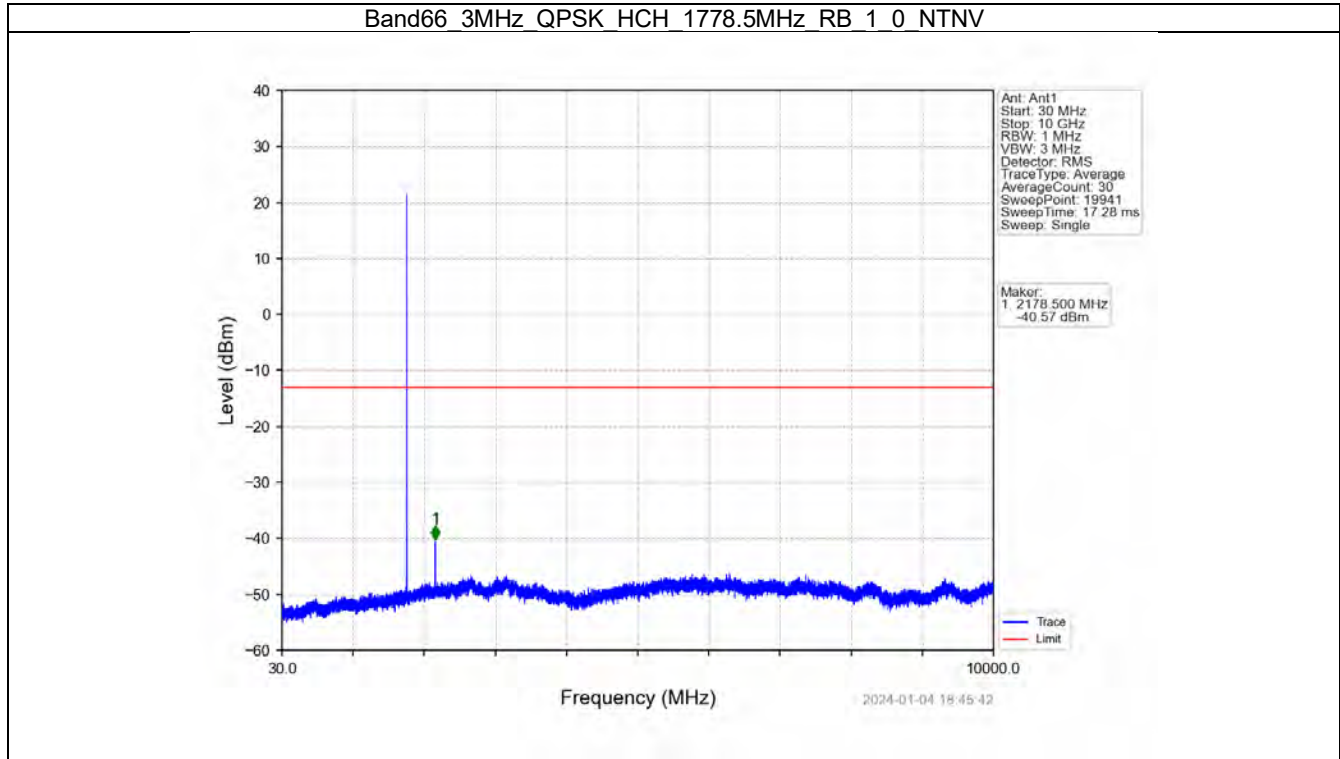
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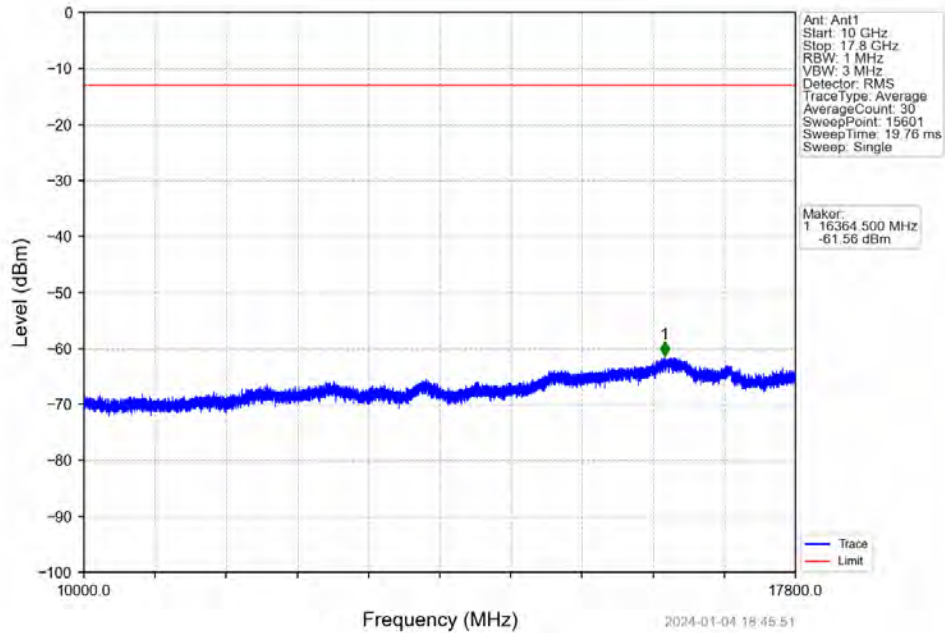


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Band66 3MHz QPSK HCH 1778.5MHz RB 1 0 NTV



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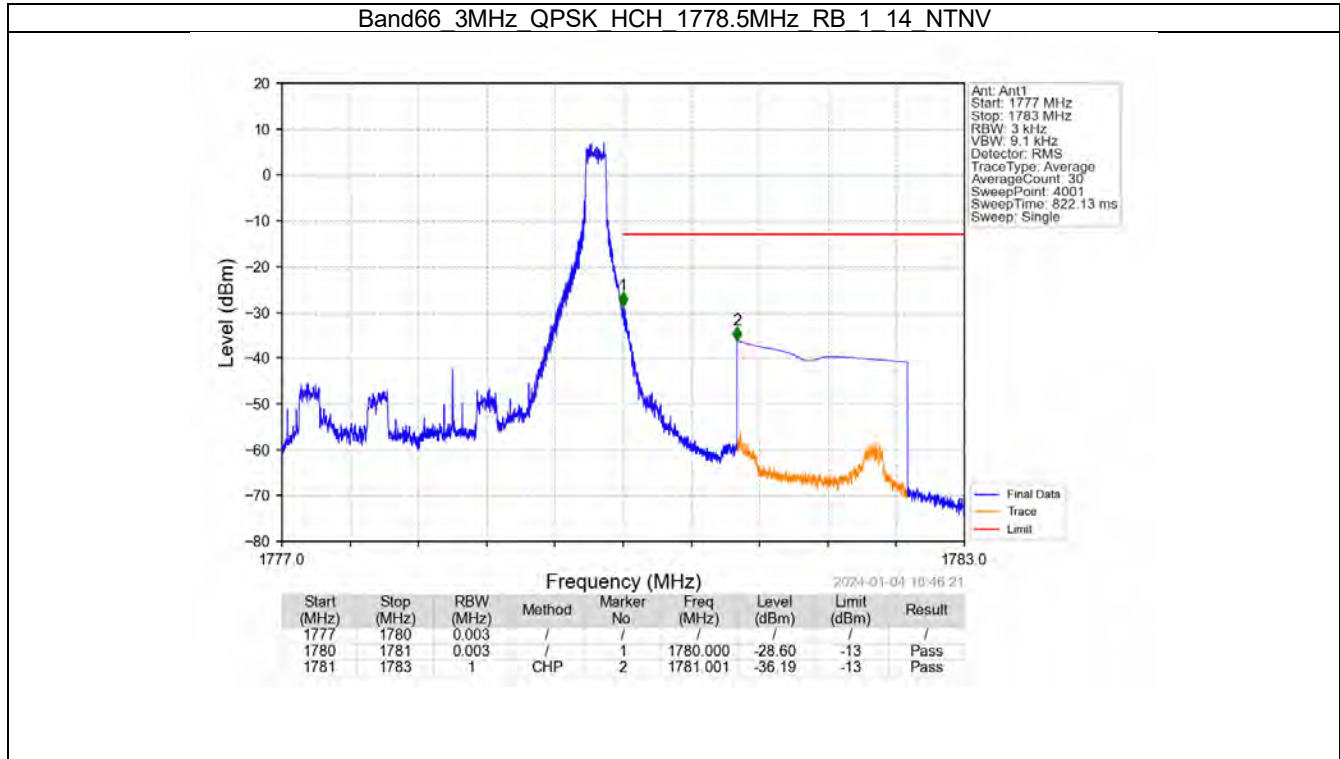
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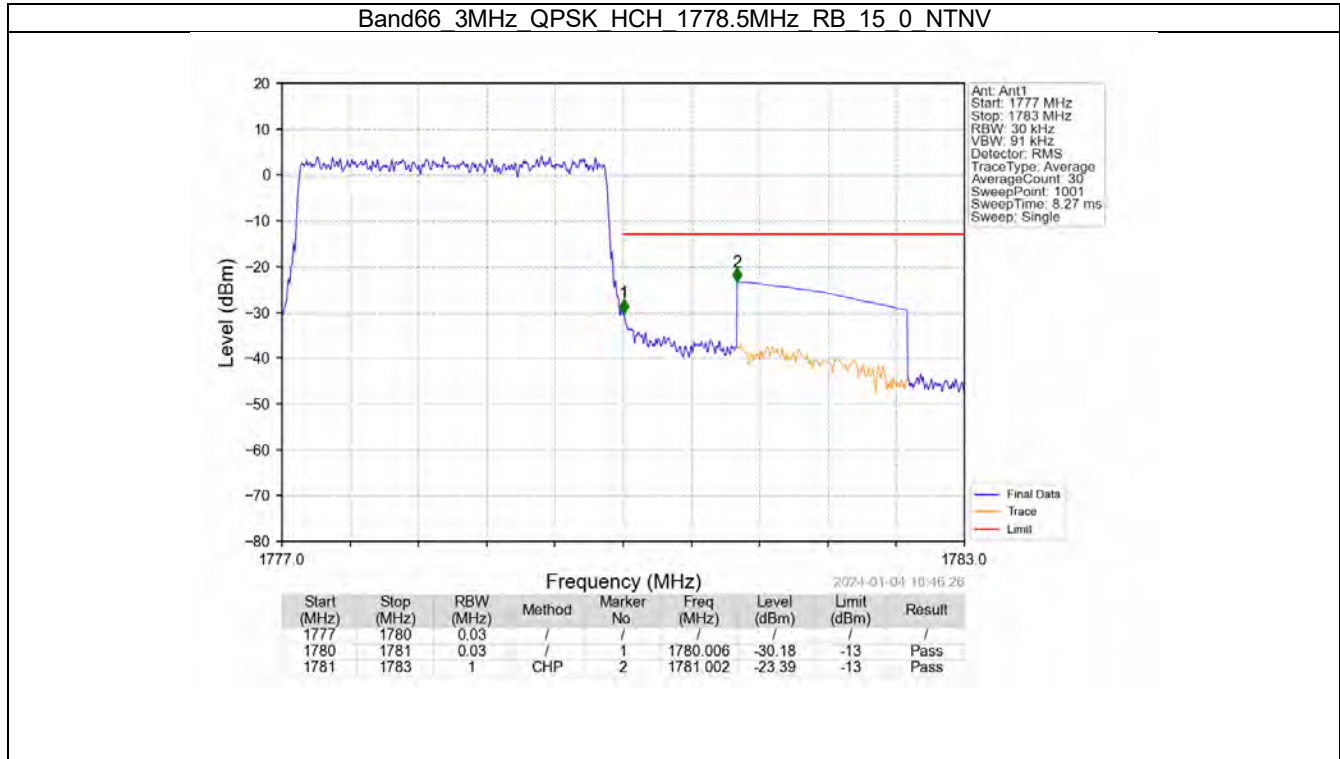
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5.3 B66_5MHz

5.3.1 Test Result

Band: 66 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
	1777.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



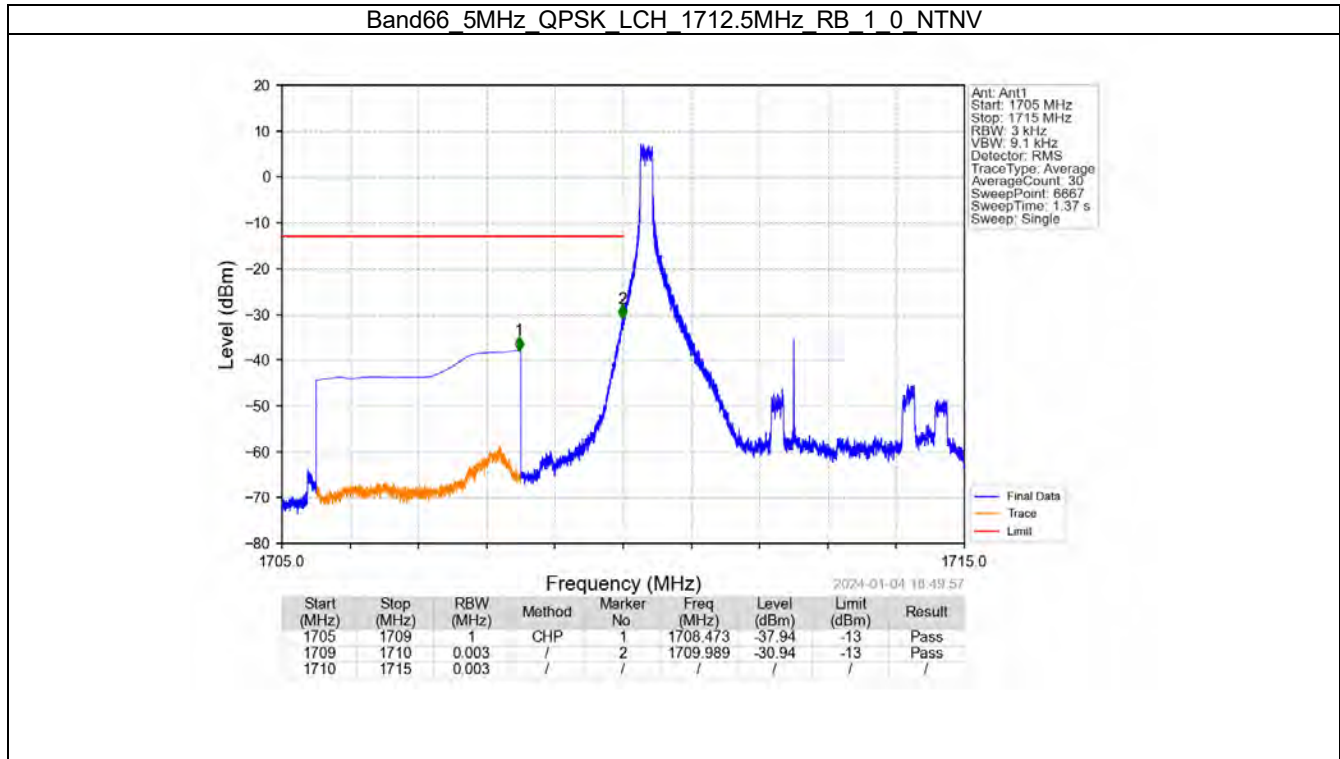
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5.3.2 Test Graph



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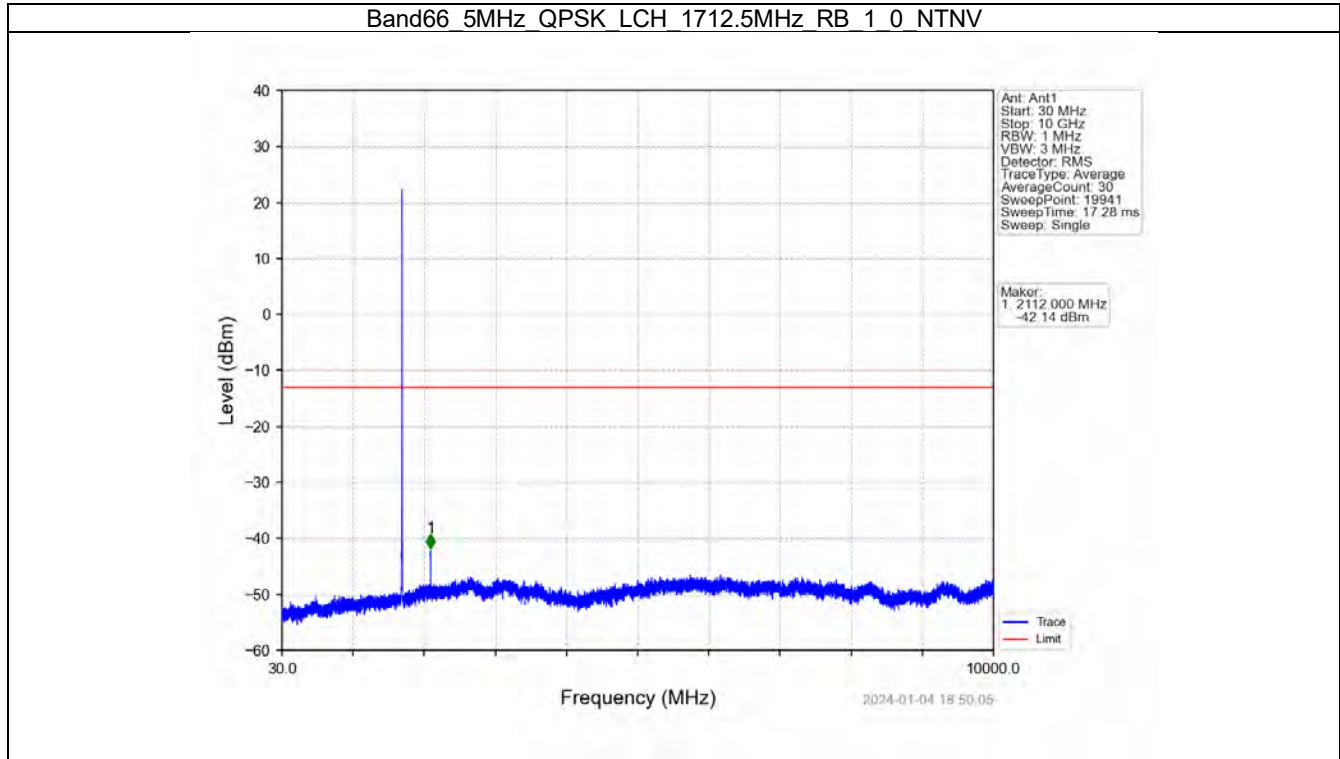
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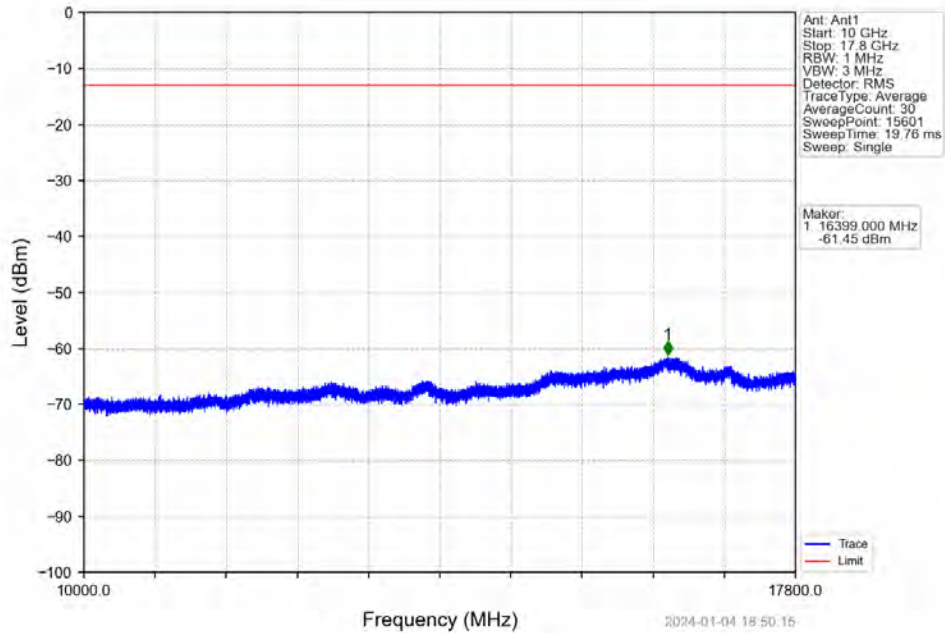


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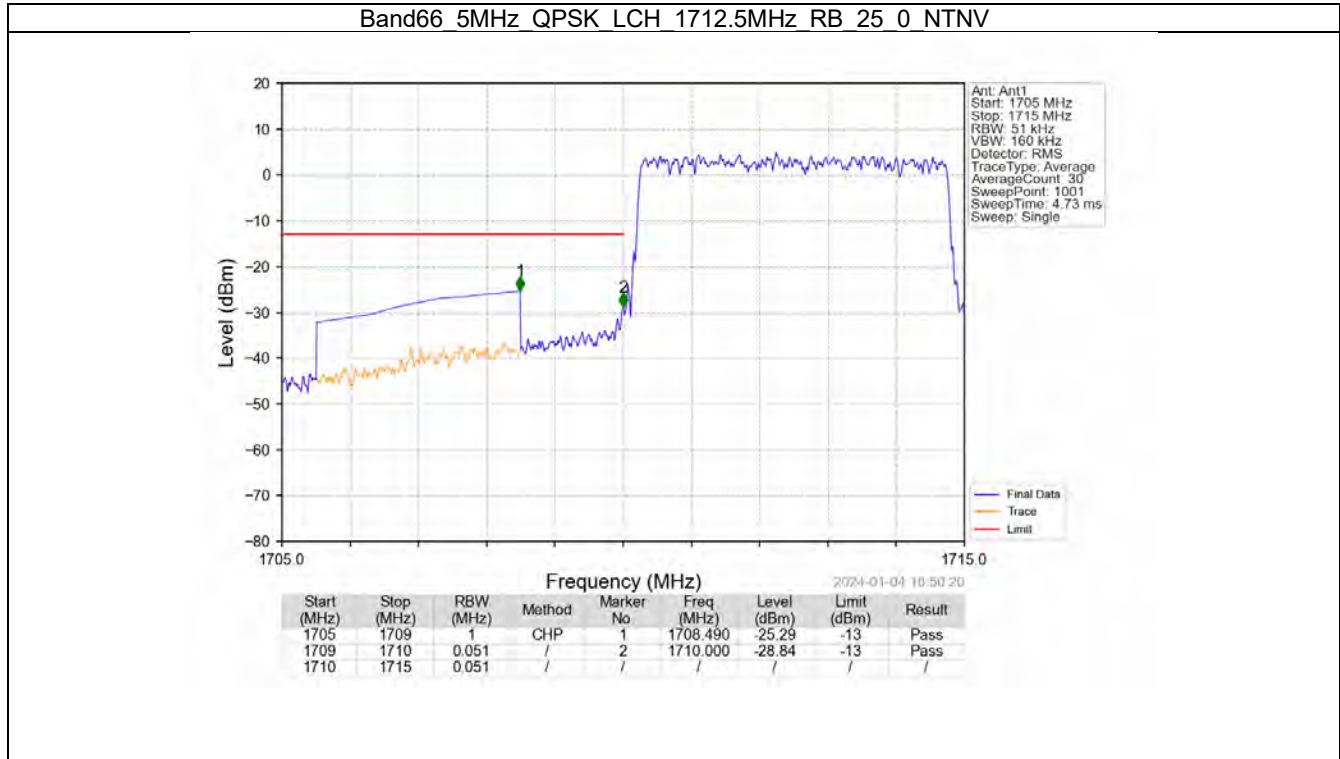


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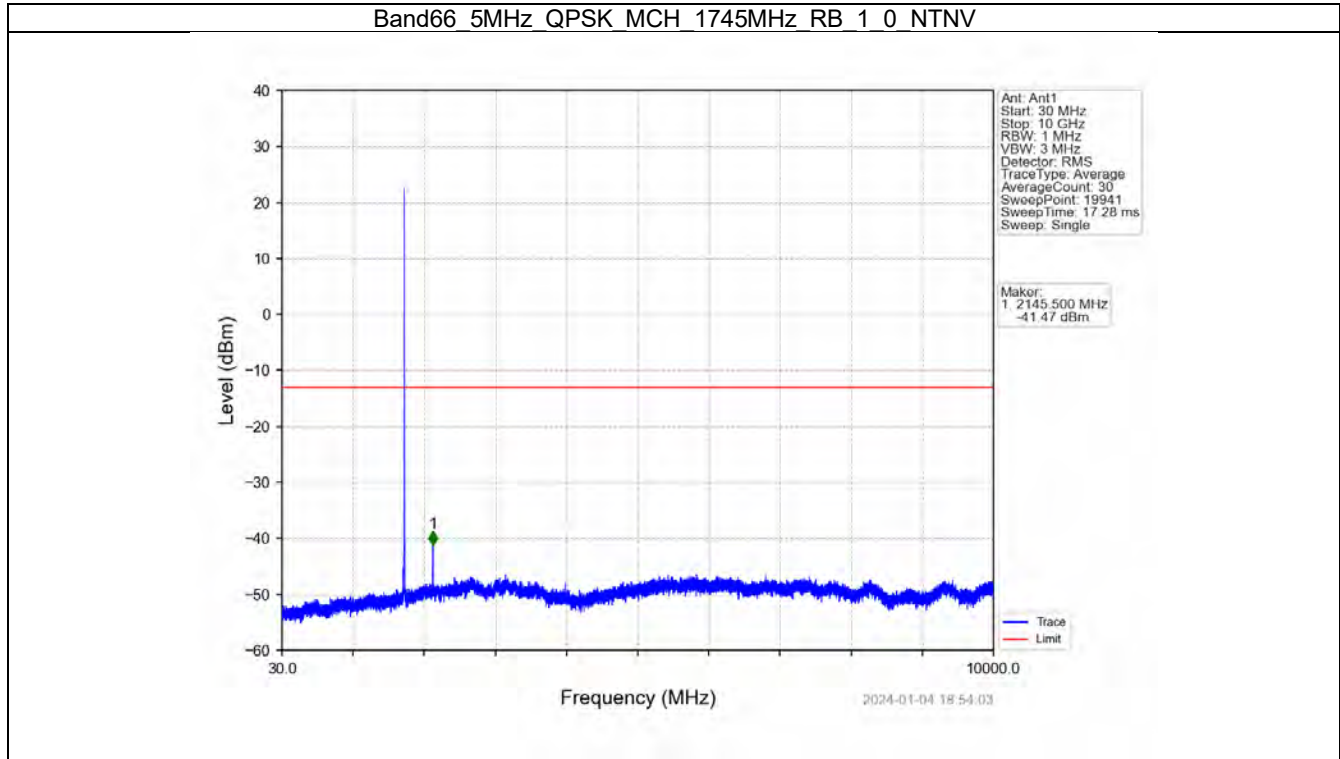
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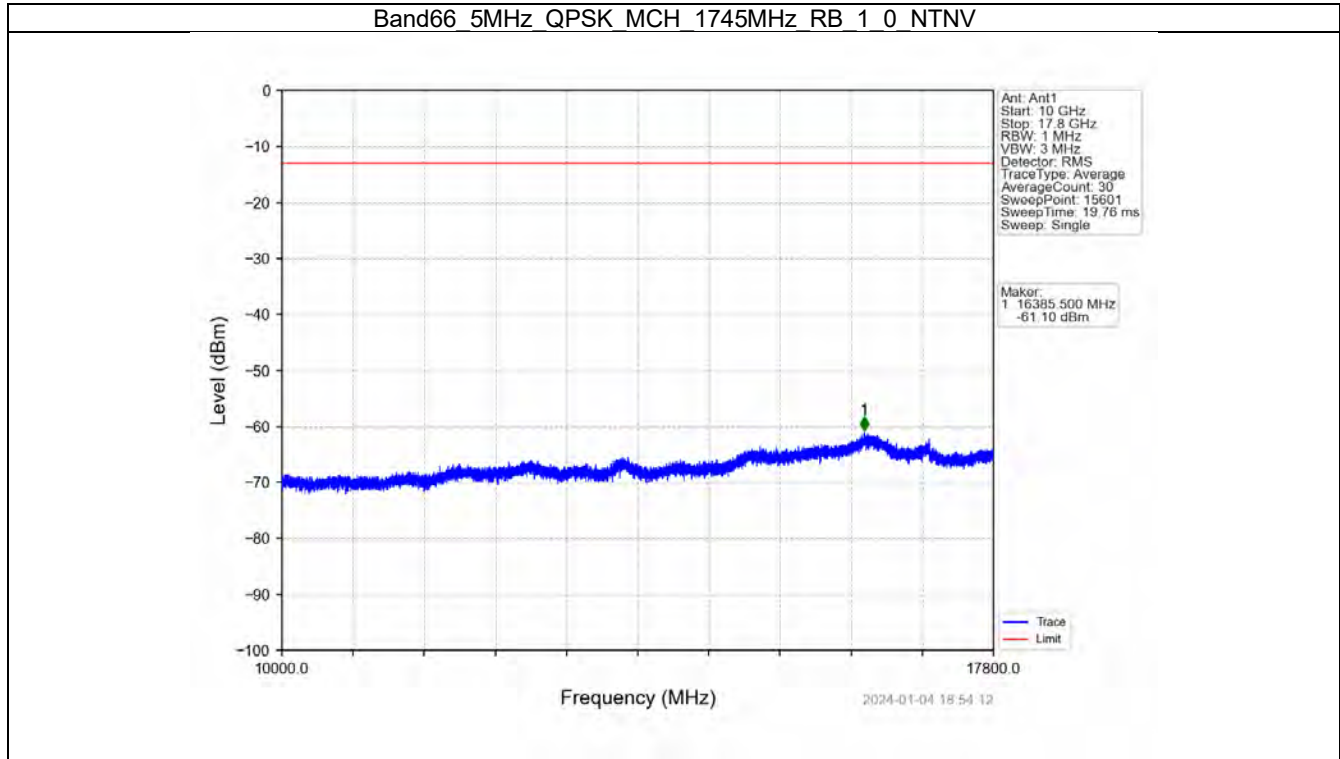
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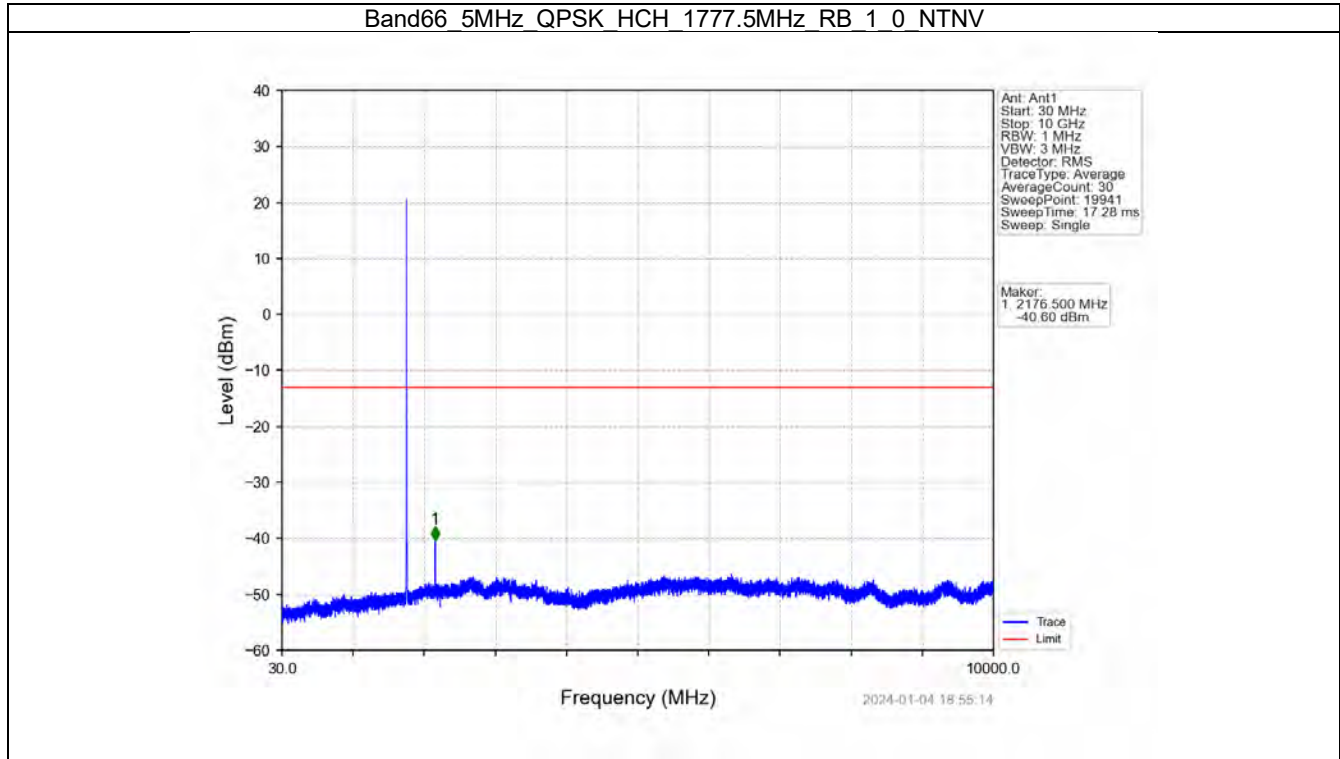
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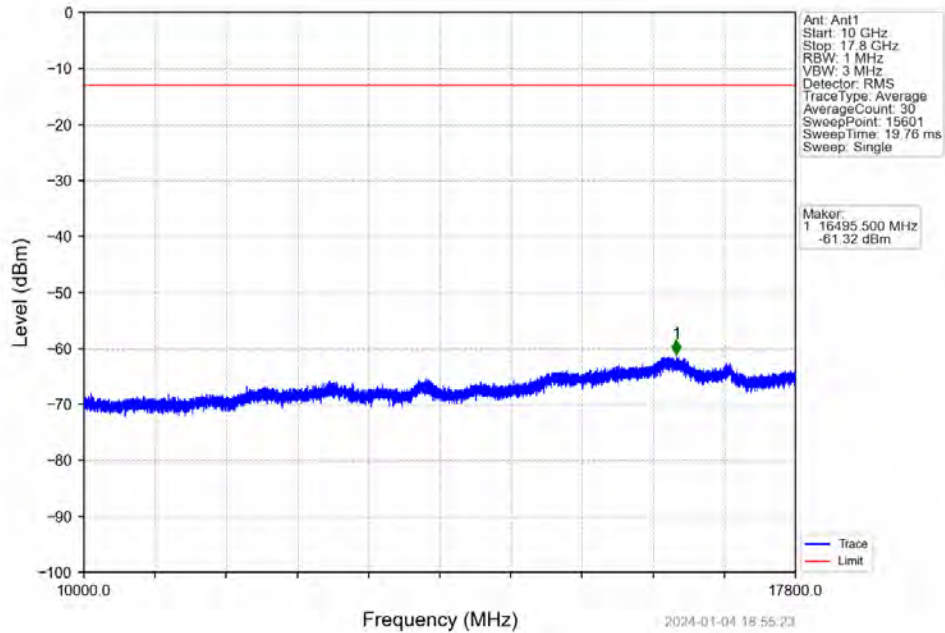


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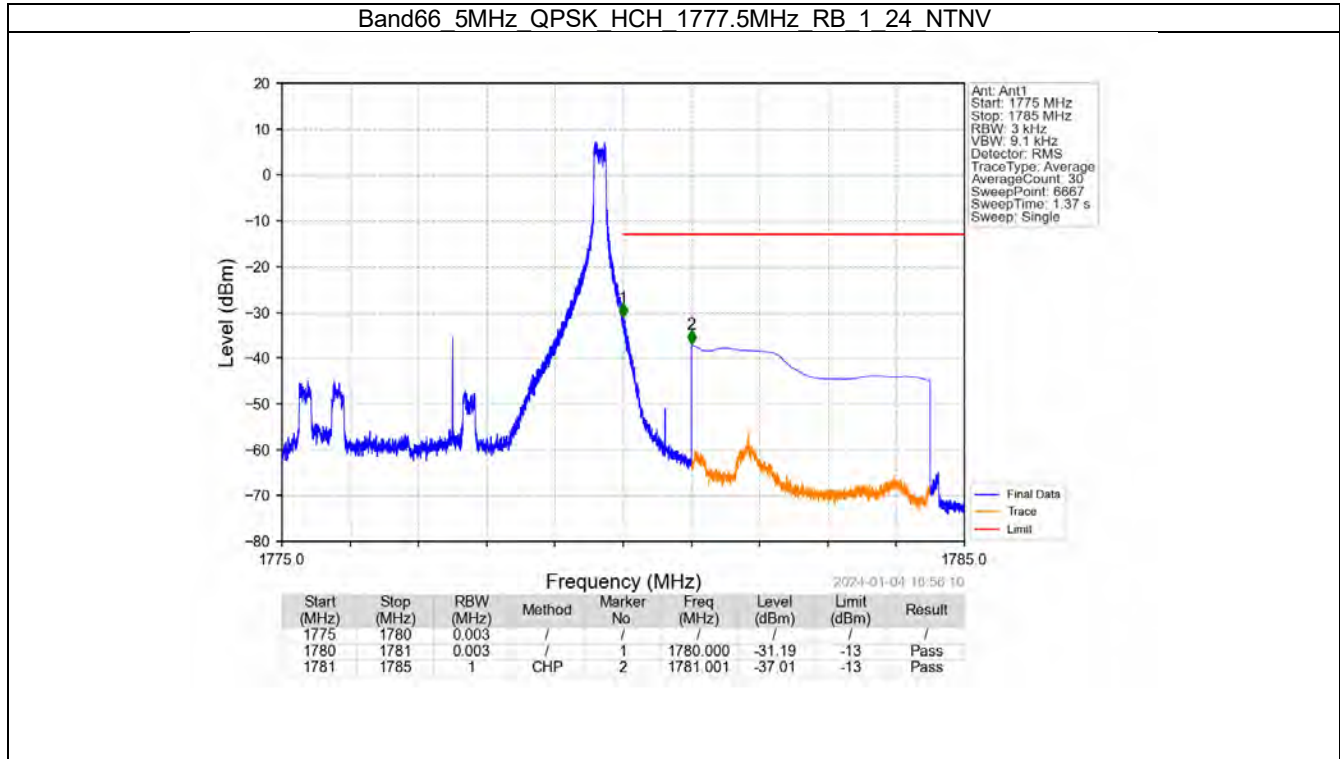
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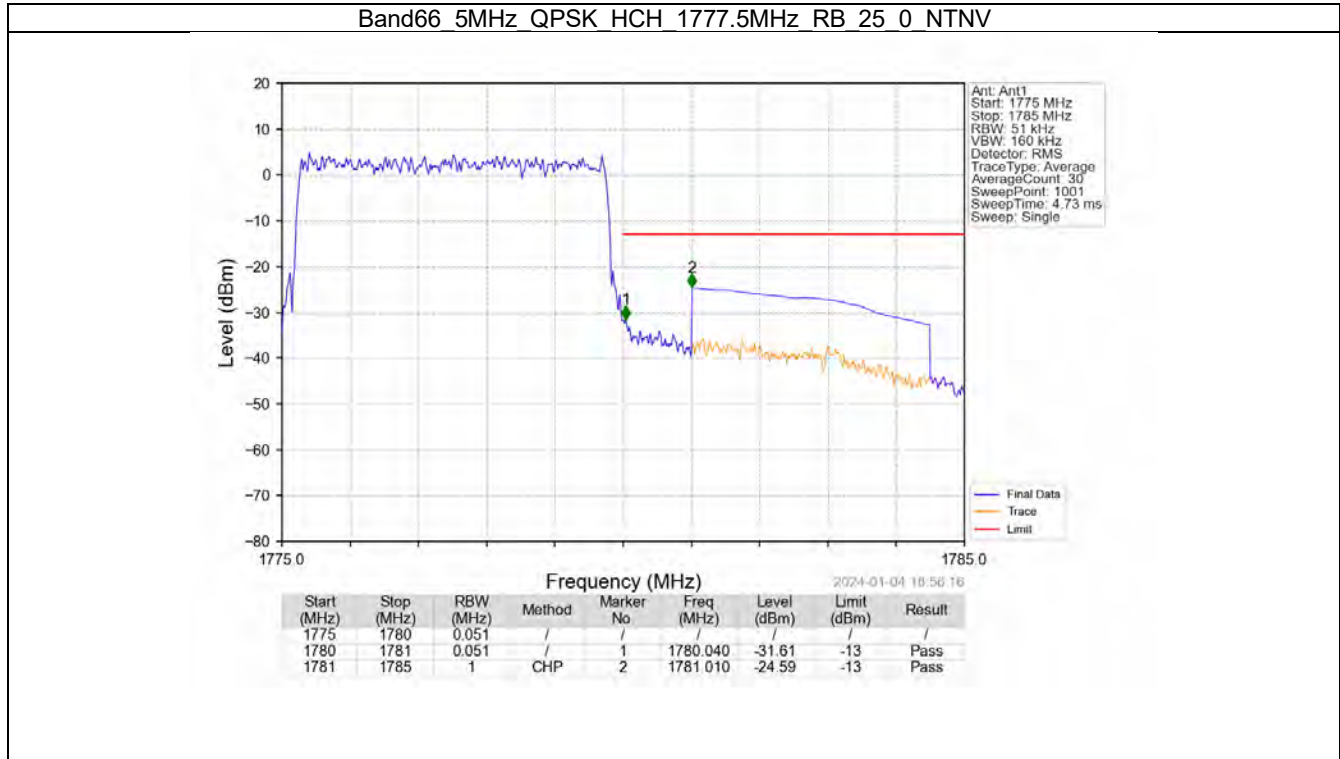
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5.4 B66_10MHz

5.4.1 Test Result

Band: 66 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
	1775	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



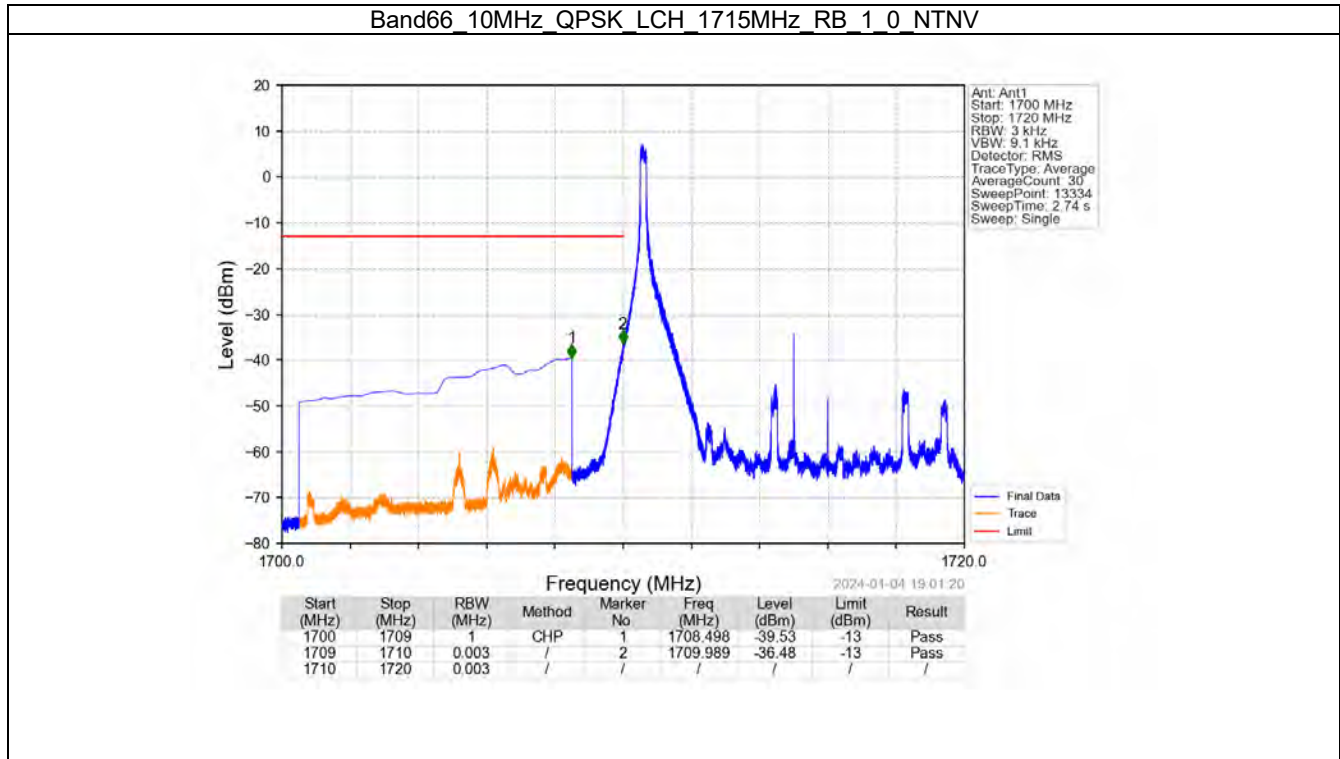
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5.4.2 Test Graph



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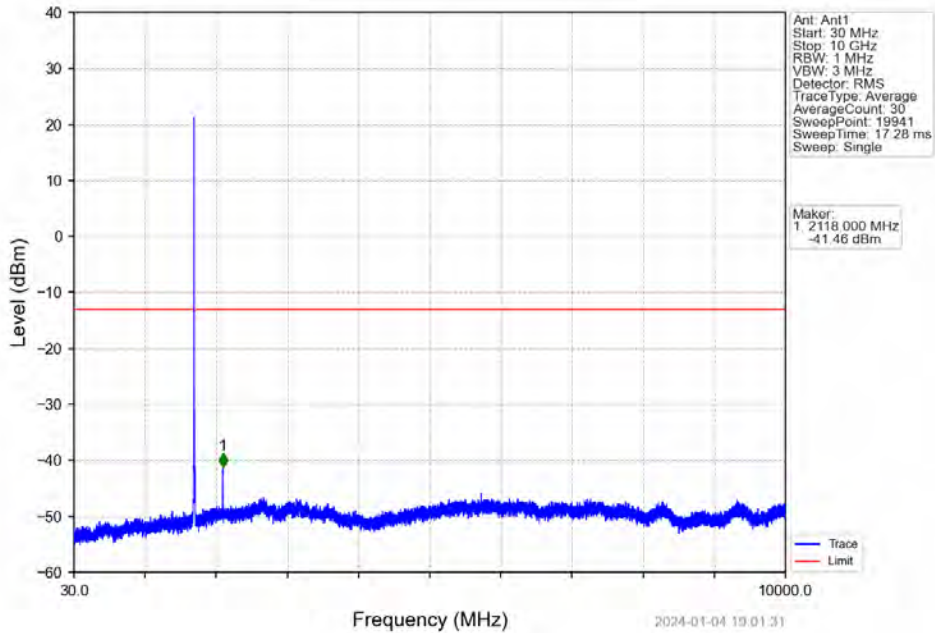


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Band66 10MHz QPSK LCH 1715MHz RB 1 0 NTN



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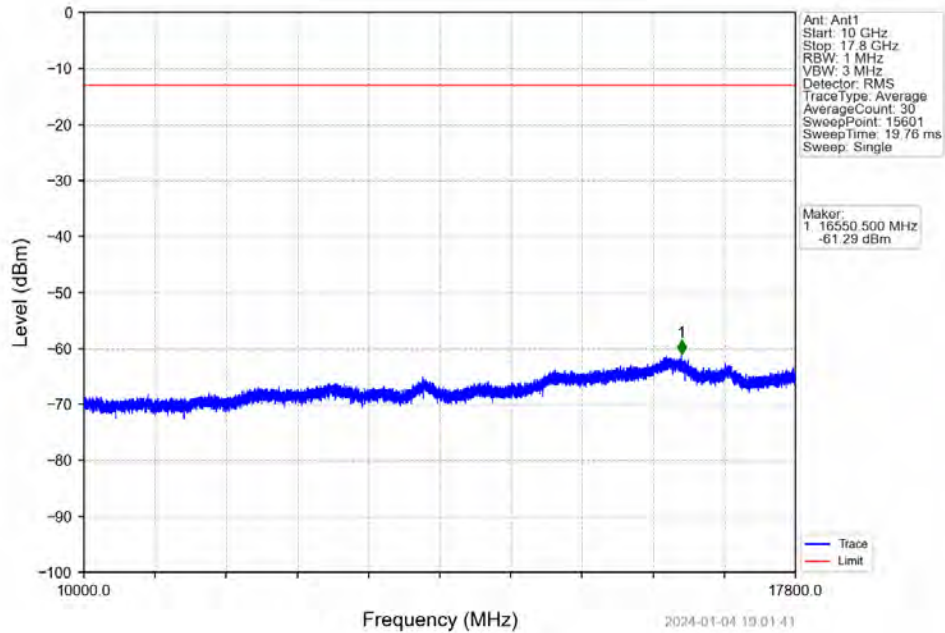


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Band66 10MHz QPSK LCH 1715MHz RB 1 0 NTN



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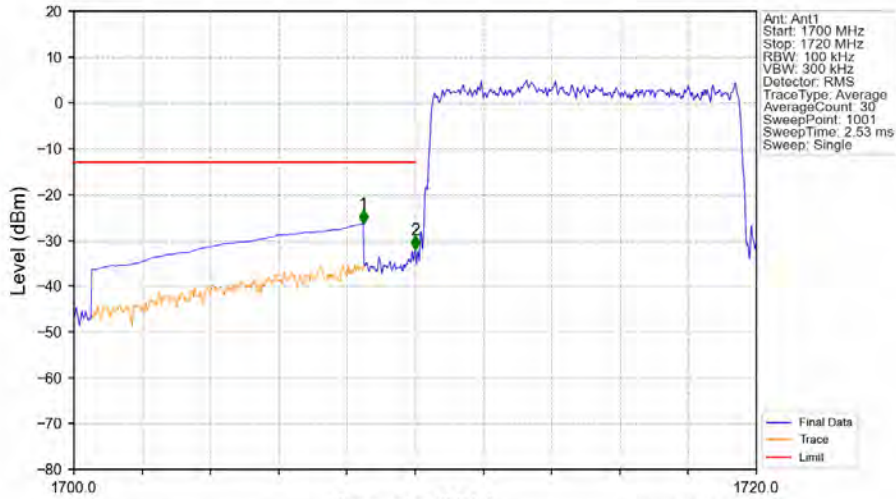
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Band66 10MHz QPSK LCH 1715MHz RB 50 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.480	-26.33	-13	Pass
1709	1710	0.1	/	2	1710.000	-31.99	-13	Pass
1710	1720	0.1	/	/	/	/	/	/



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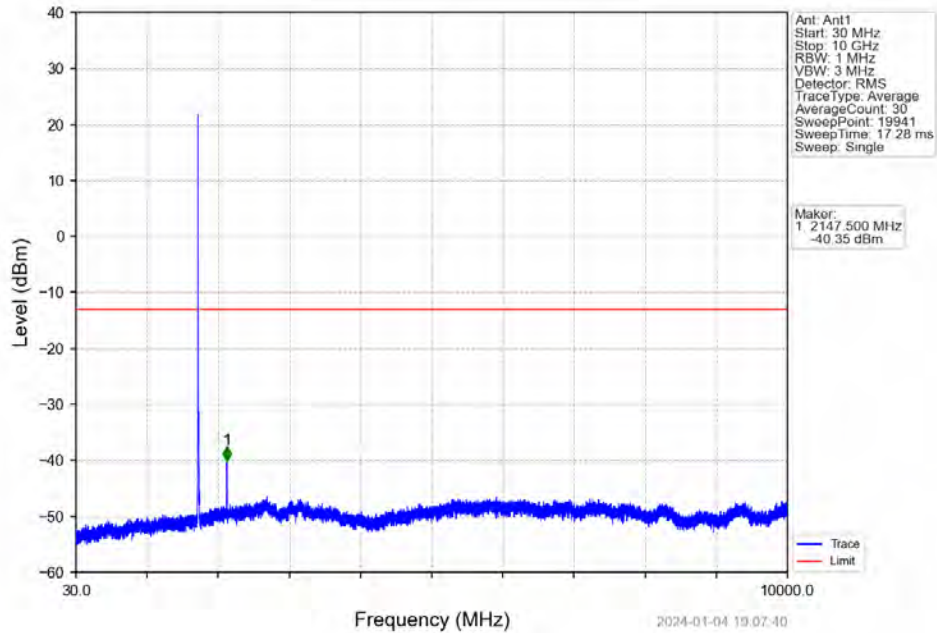


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Band66 10MHz QPSK MCH 1745MHz RB 1 0 NTV



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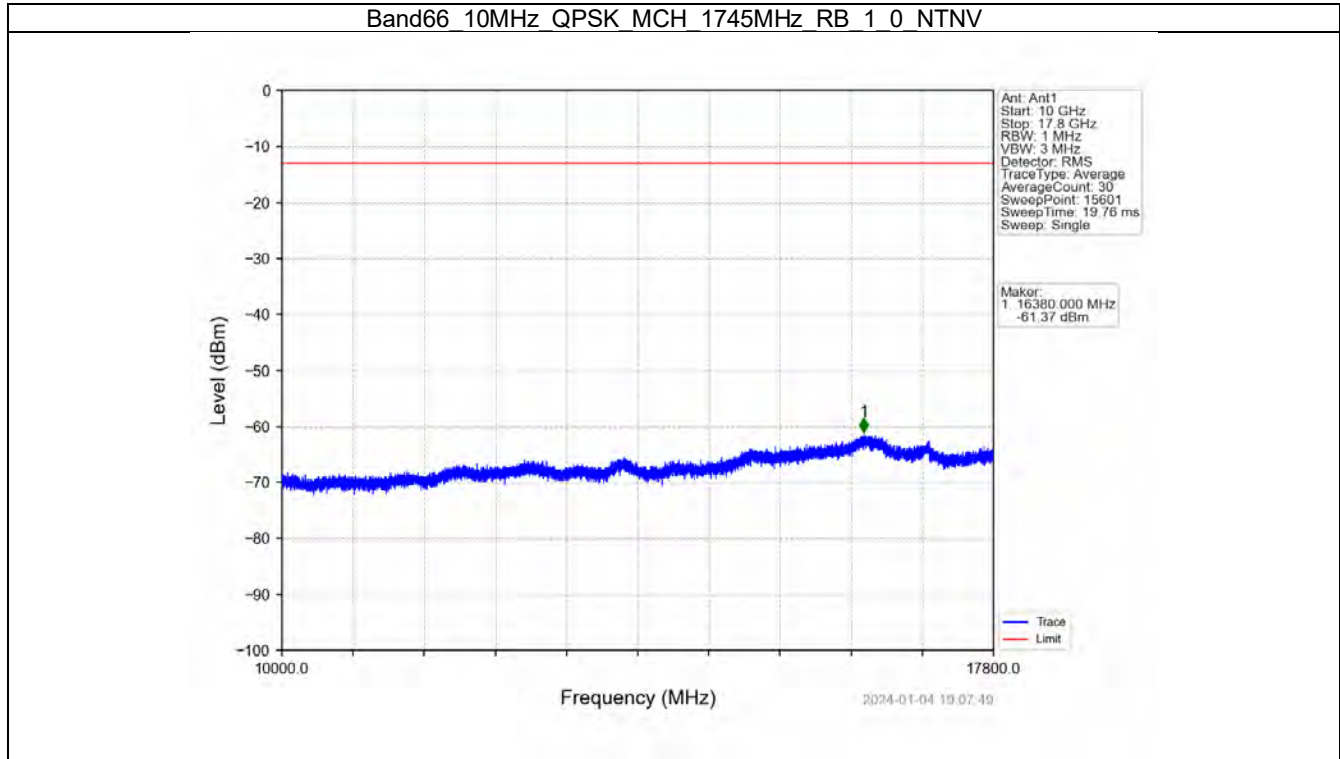


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Band66 10MHz QPSK MCH 1745MHz RB 1 0 NTV



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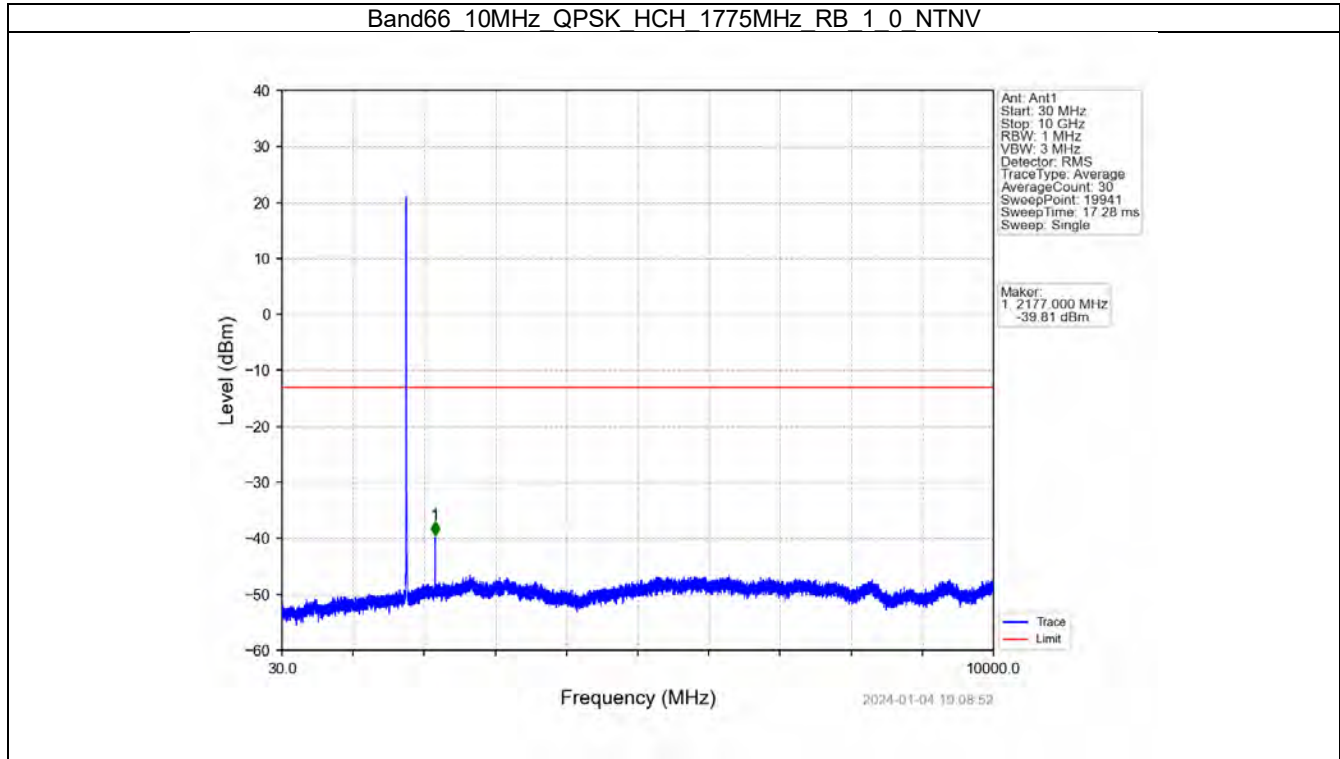
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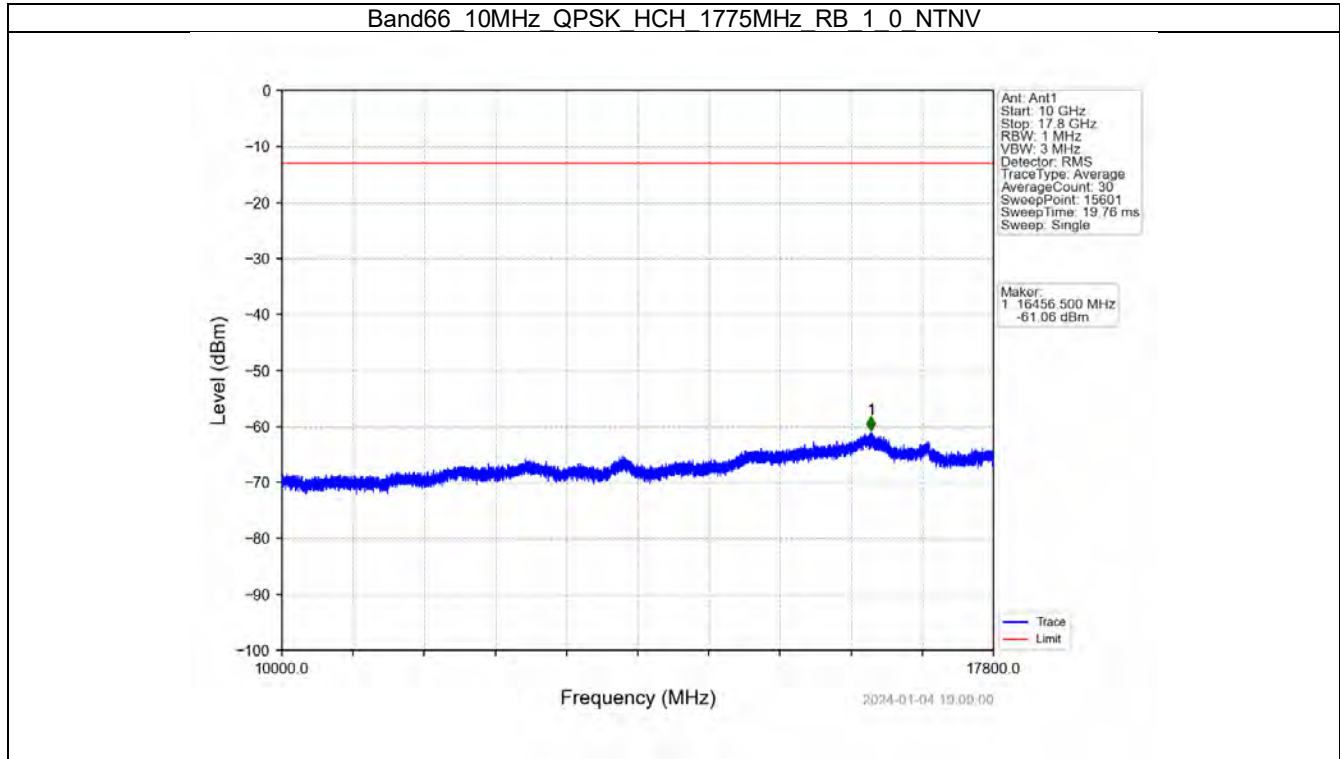
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Band66 10MHz QPSK HCH 1775MHz RB 1 0 NTNV



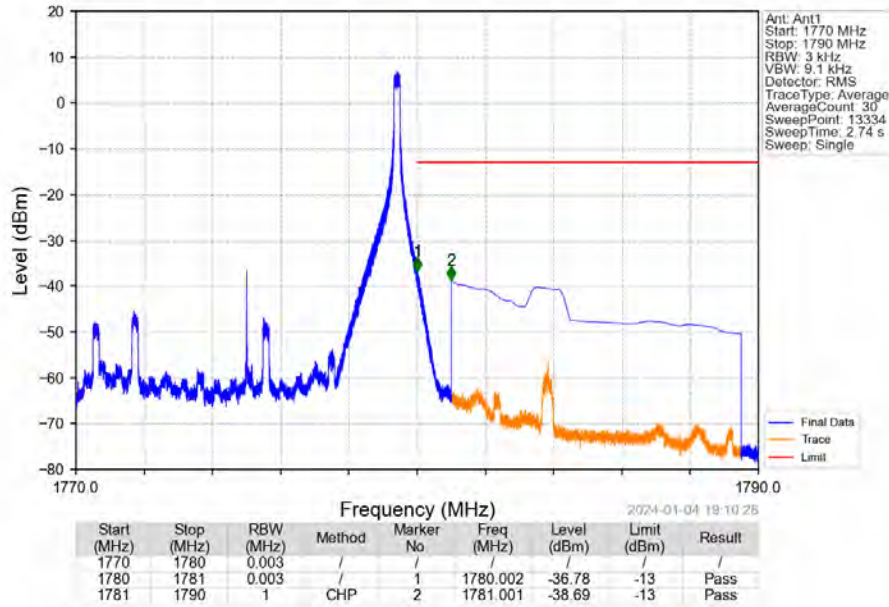
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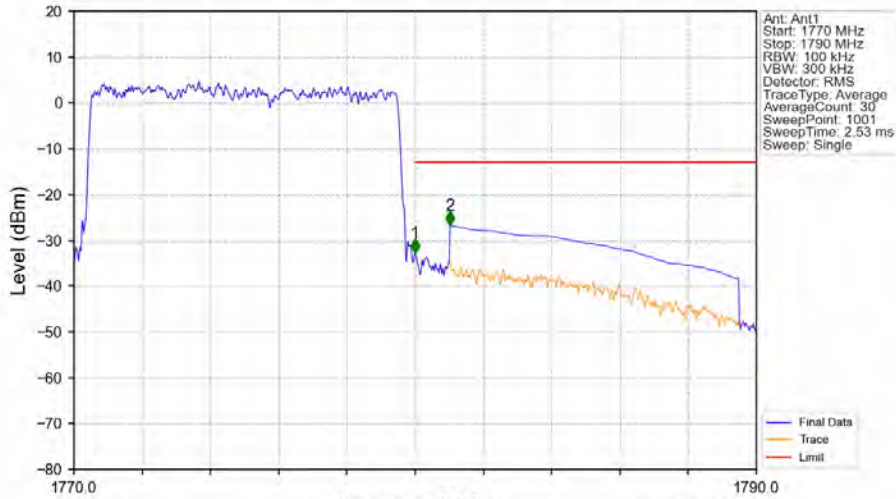
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Band66 10MHz QPSK HCH 1775MHz RB 50 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1770	1780	0.1	/	/	/	/	/	/
1780	1781	0.1	/	1	1780.000	-32.79	-13	Pass
1781	1790	1	CHP	2	1781.020	-26.77	-13	Pass

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5.5 B66_15MHz

5.5.1 Test Result

Band: 66 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
	1772.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



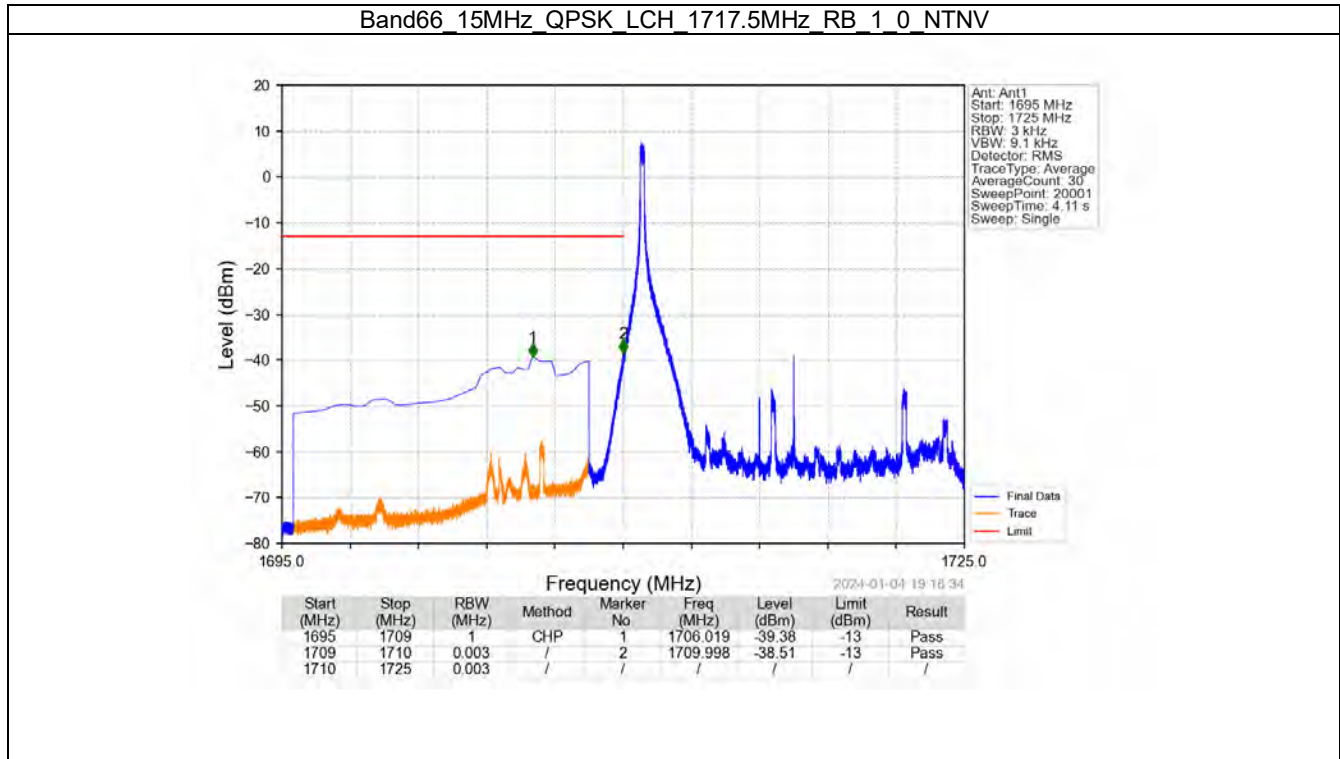
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5.5.2 Test Graph



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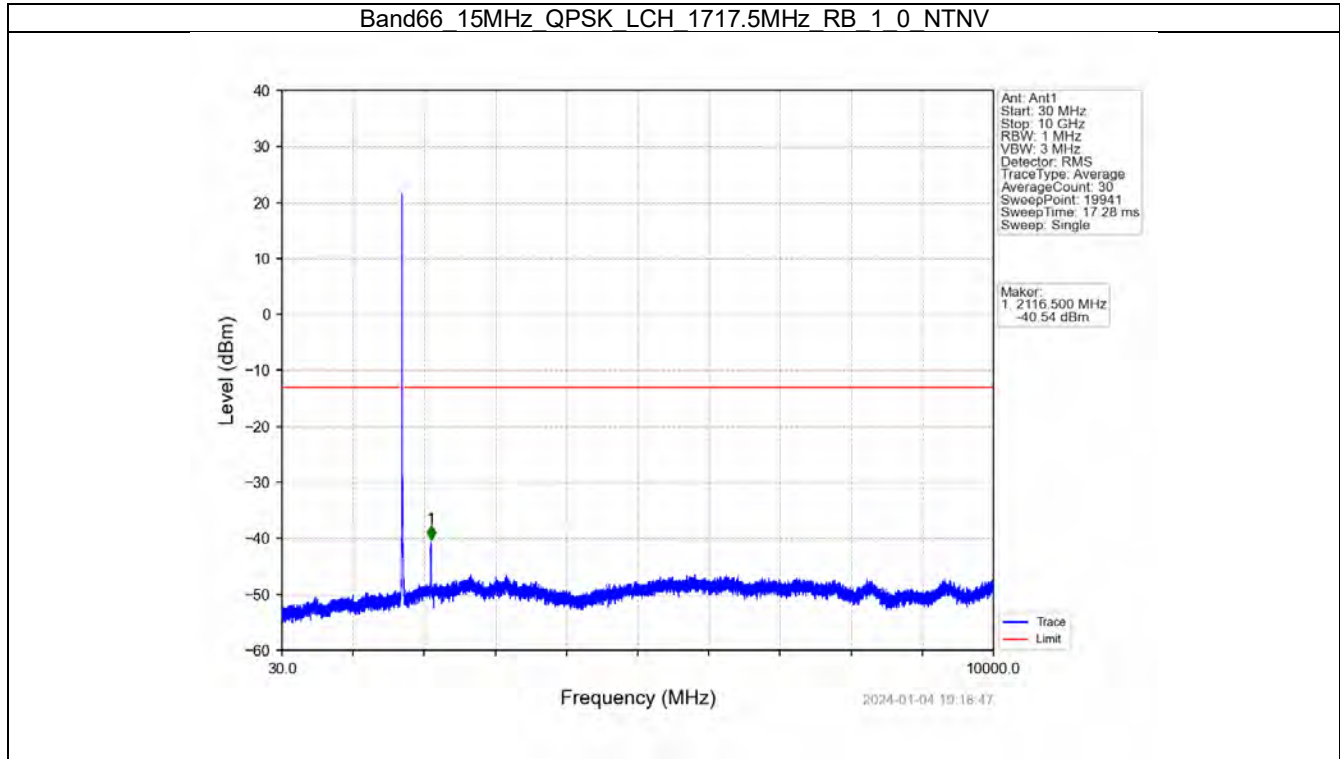
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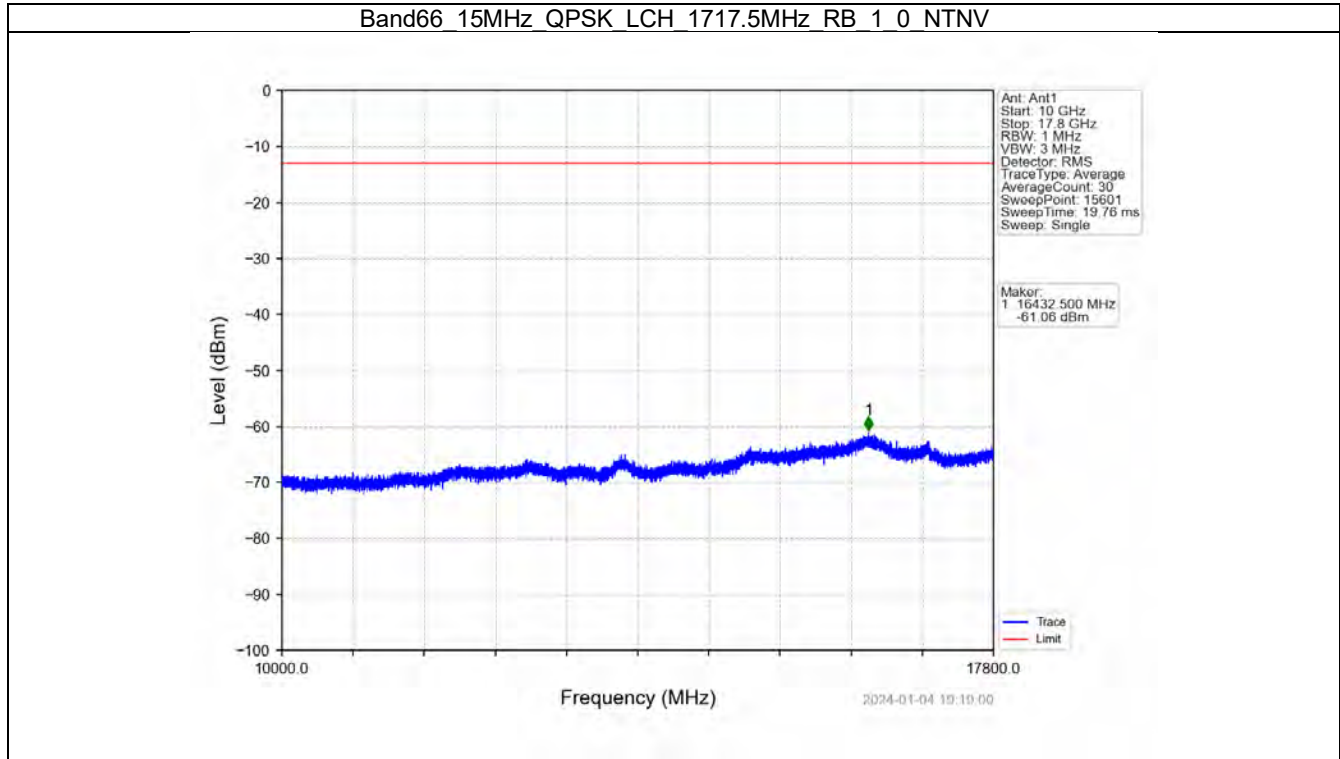
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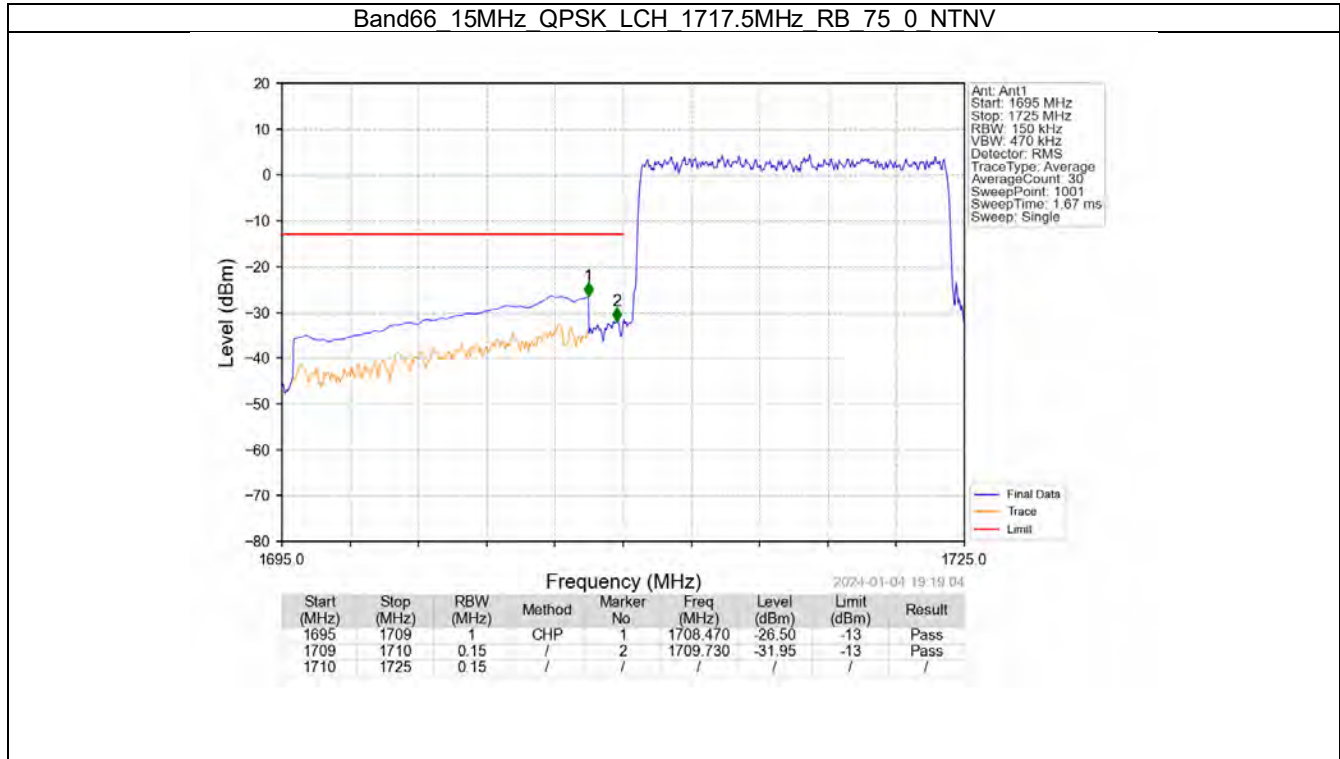


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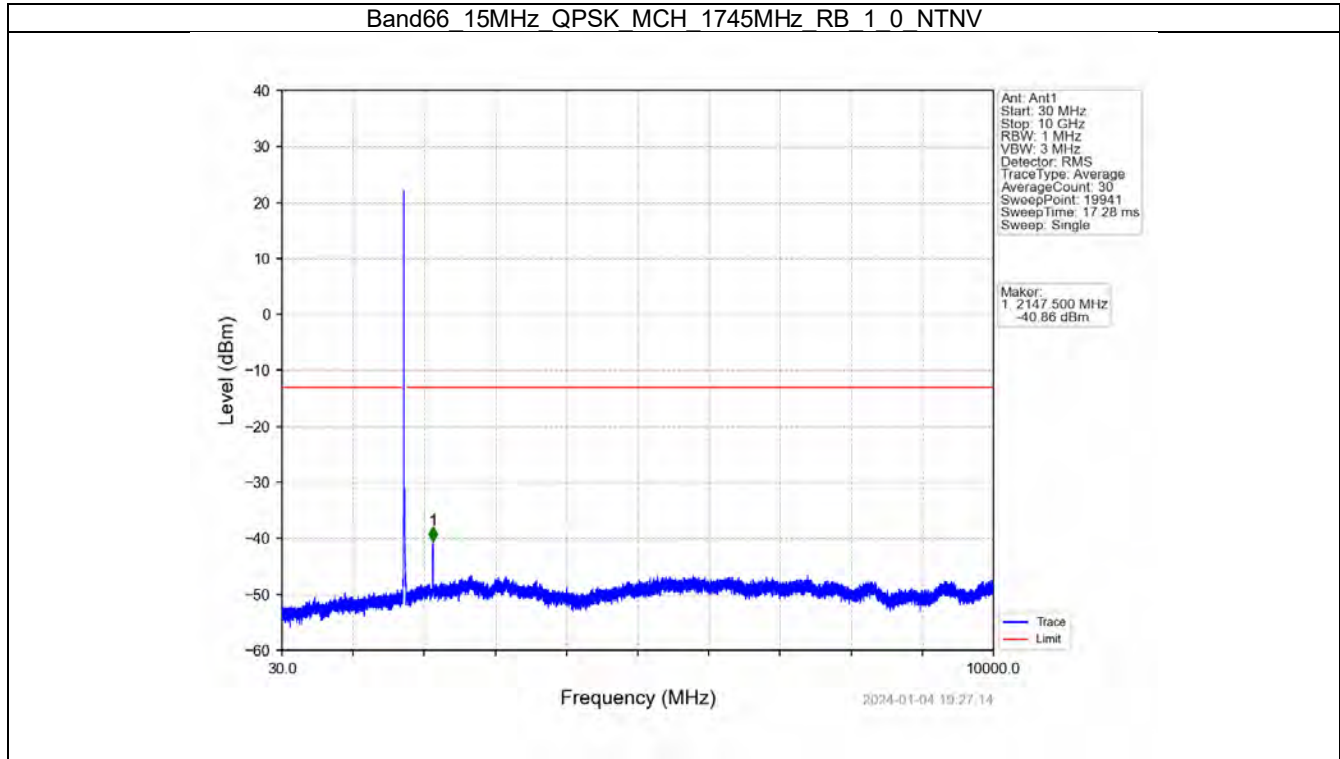
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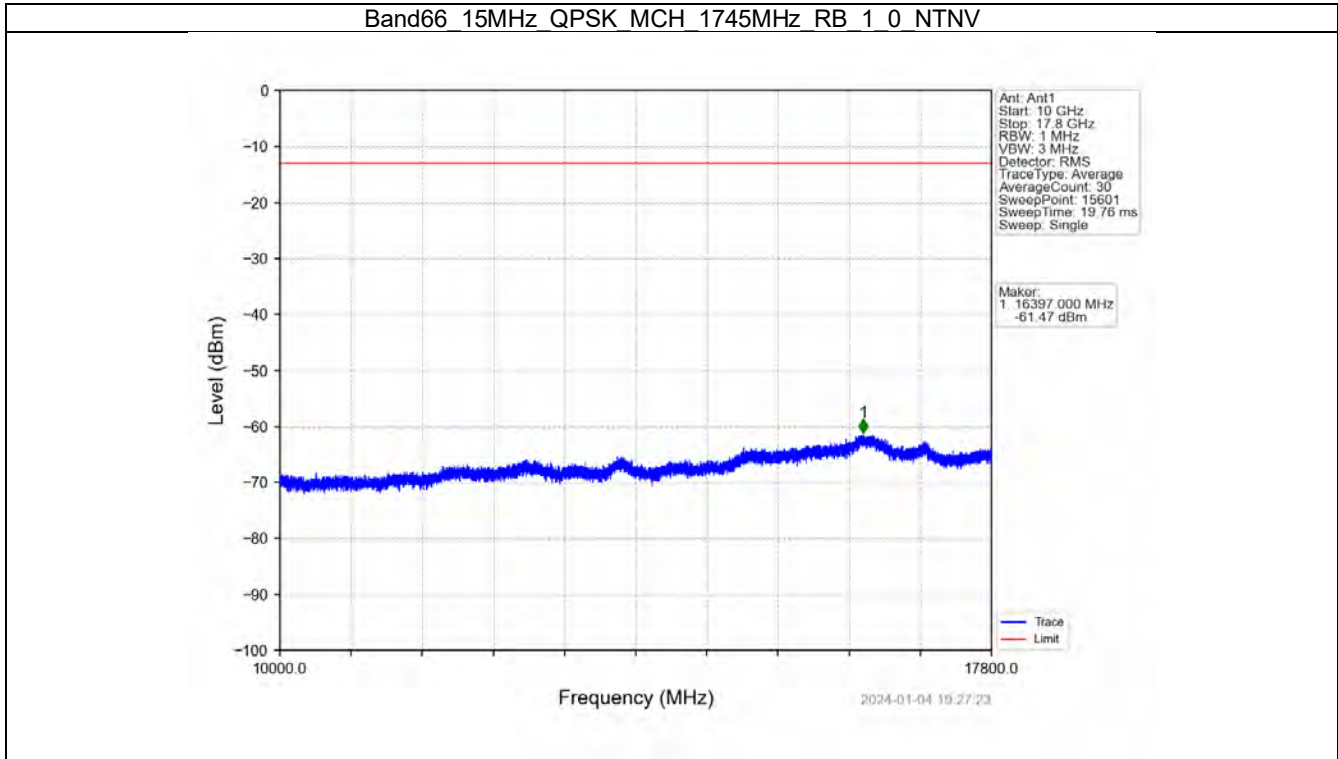
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Band66 15MHz QPSK MCH 1745MHz RB 1 0 NTV



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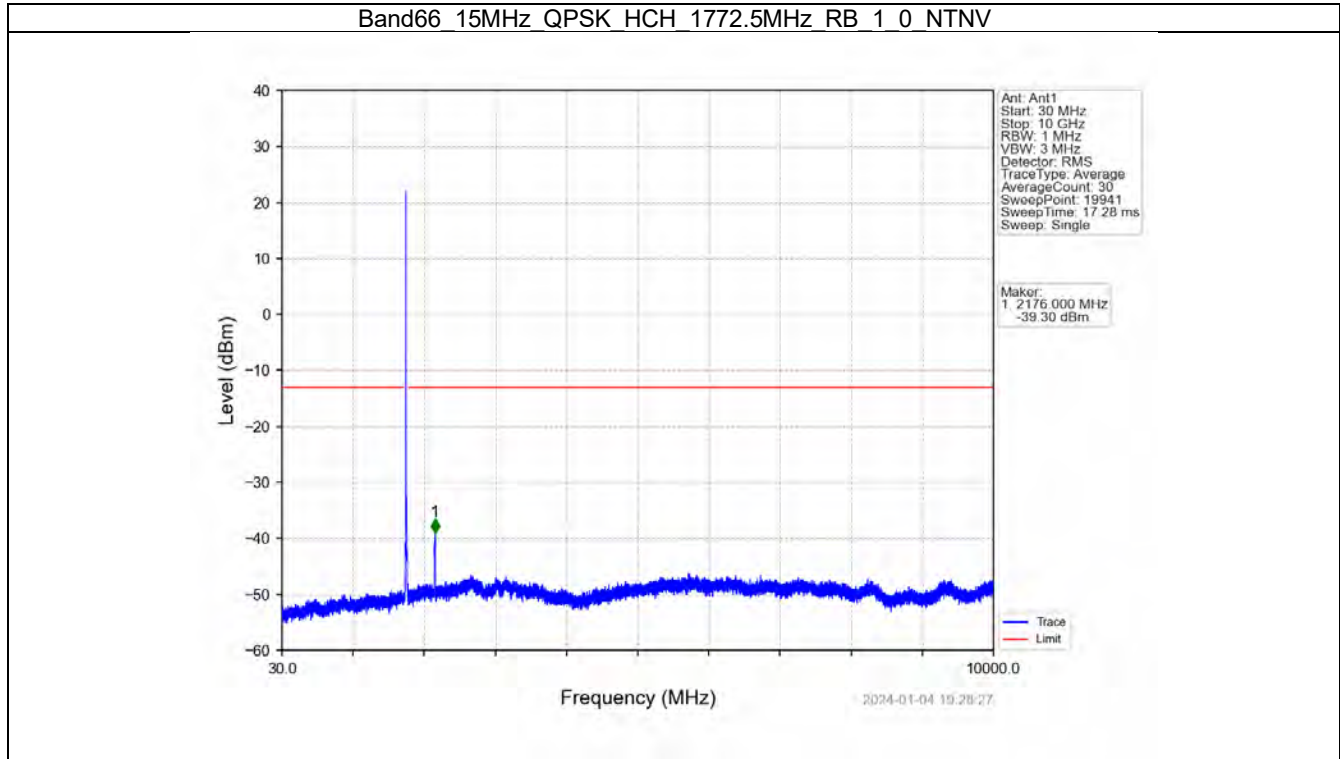
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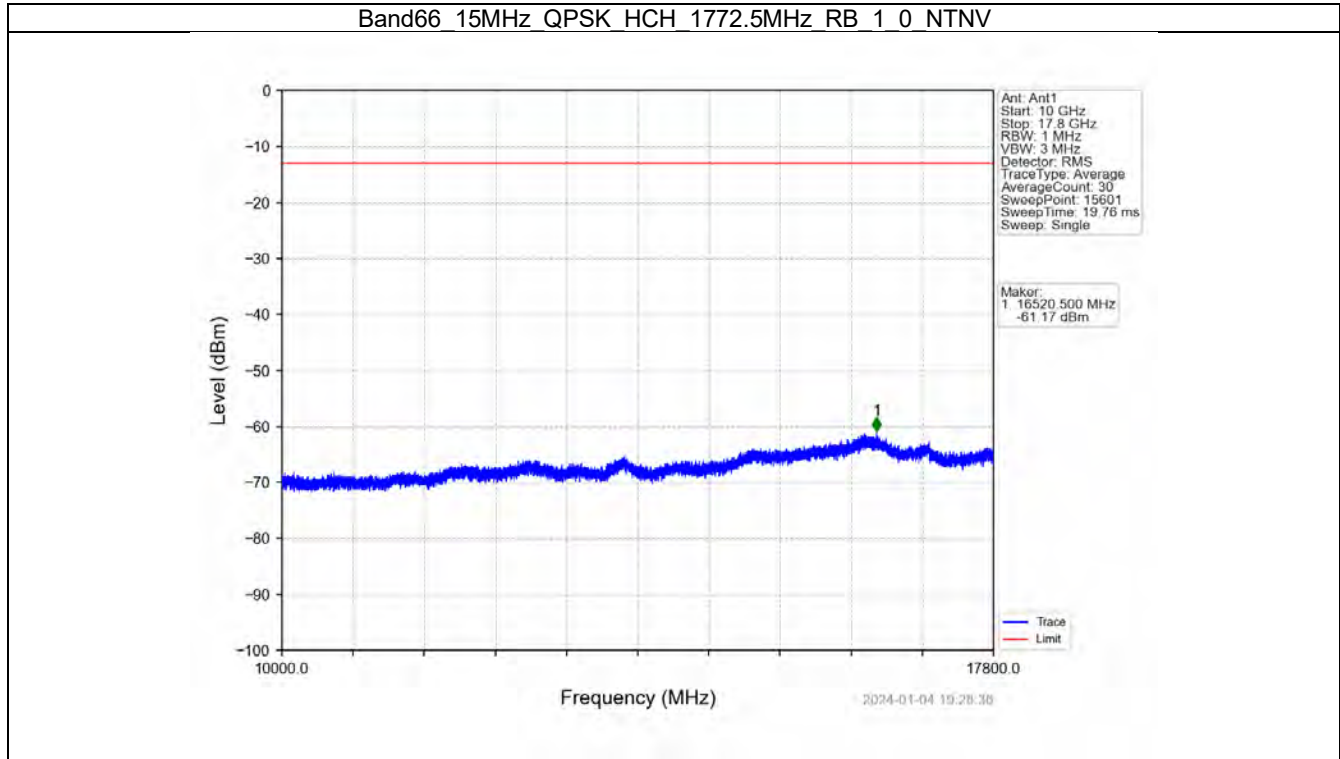
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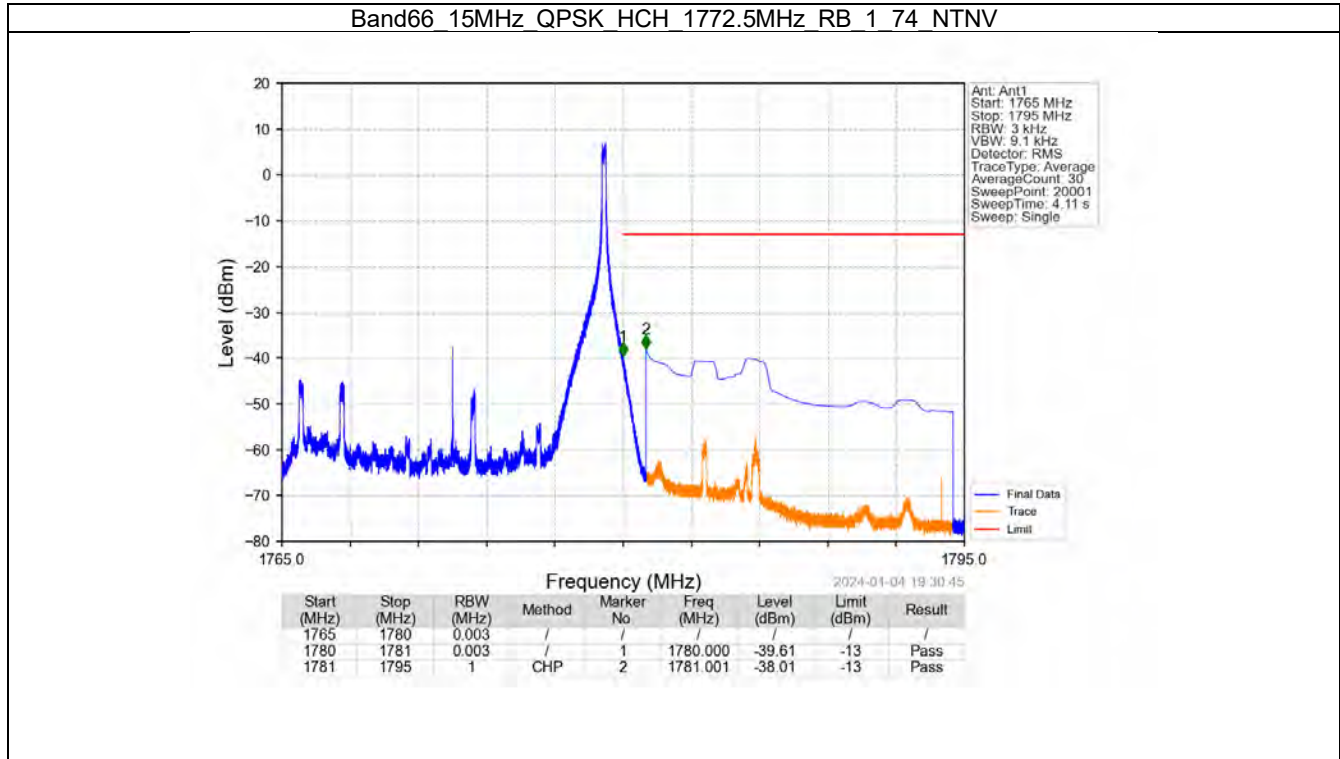


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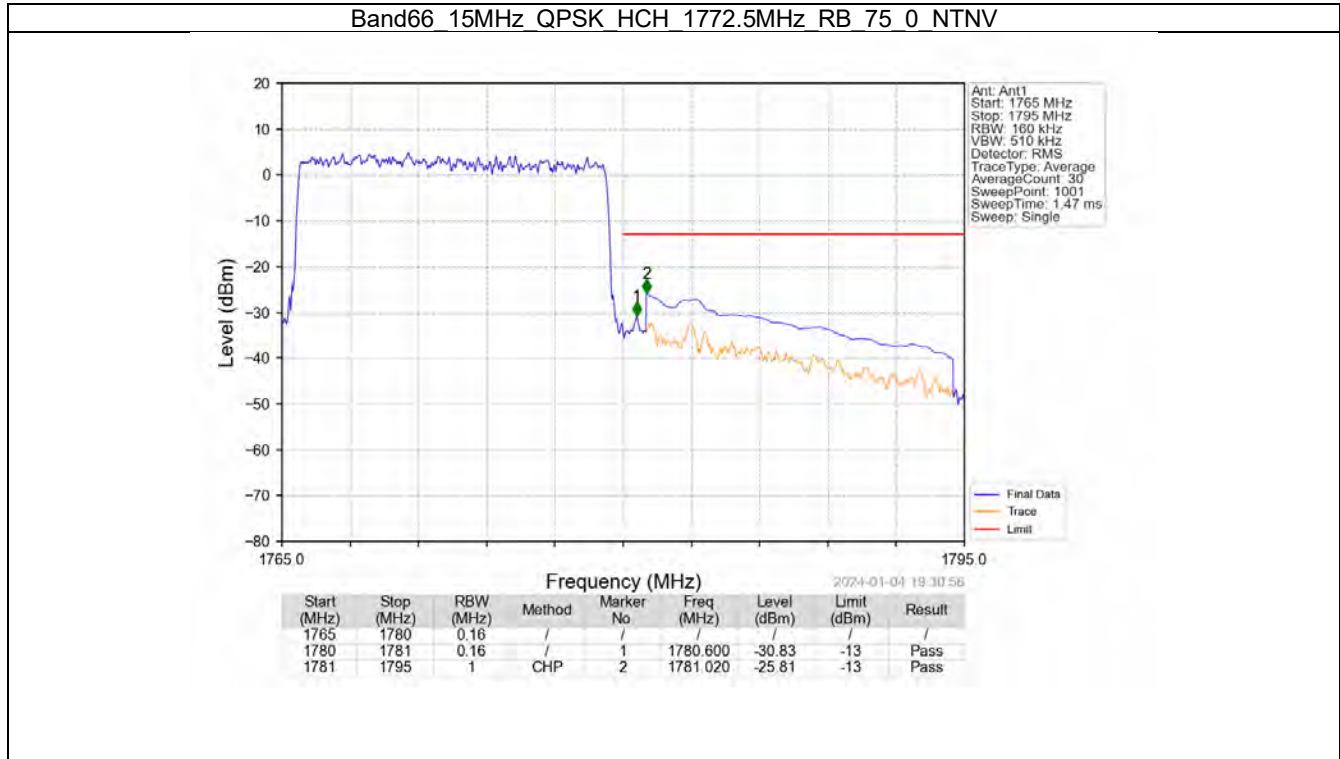
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5.6 B66_20MHz

5.6.1 Test Result

Band: 66 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
	1770	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

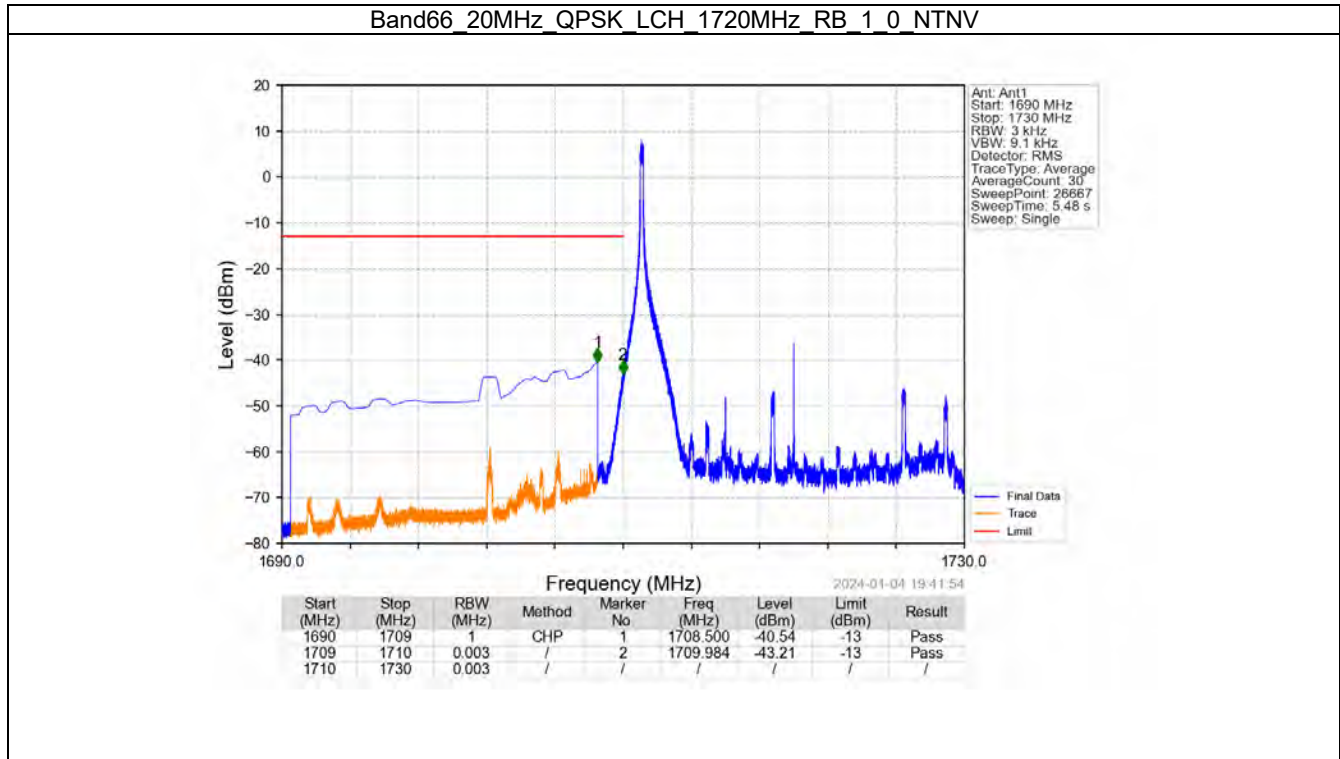


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5.6.2 Test Graph



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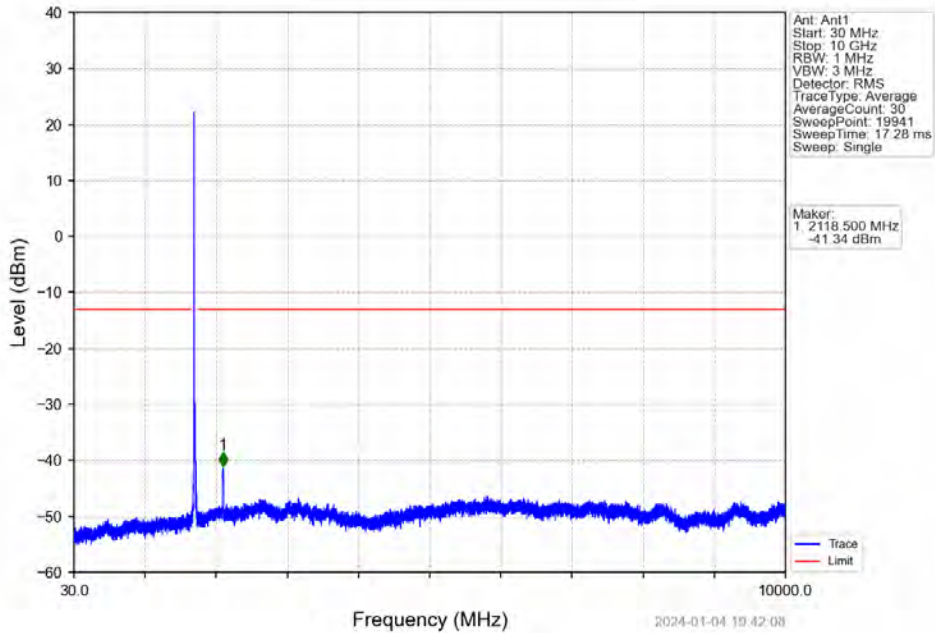


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Band66 20MHz QPSK LCH 1720MHz RB 1 0 NTN



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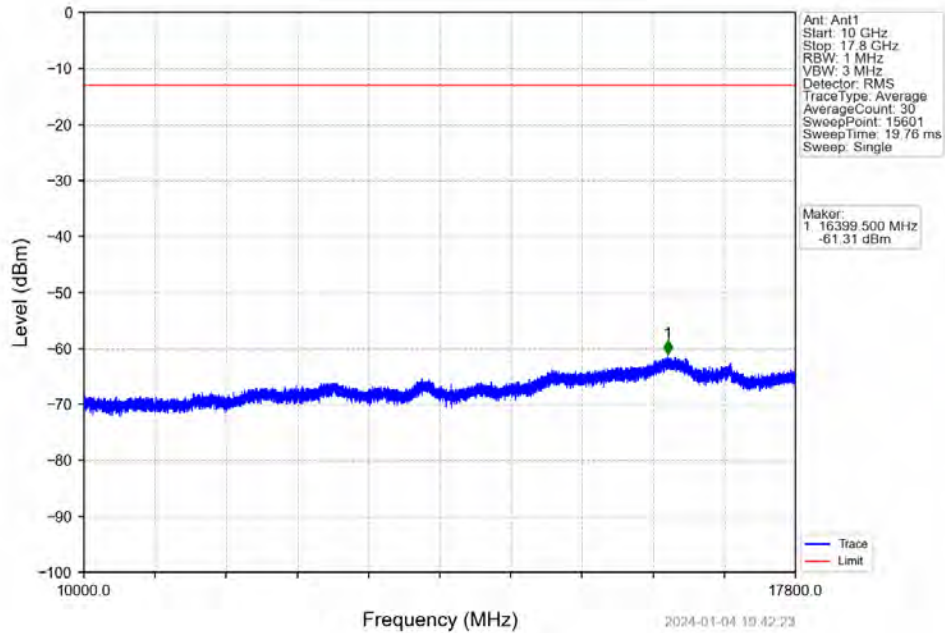


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Band66 20MHz QPSK LCH 1720MHz RB 1 0 NTN

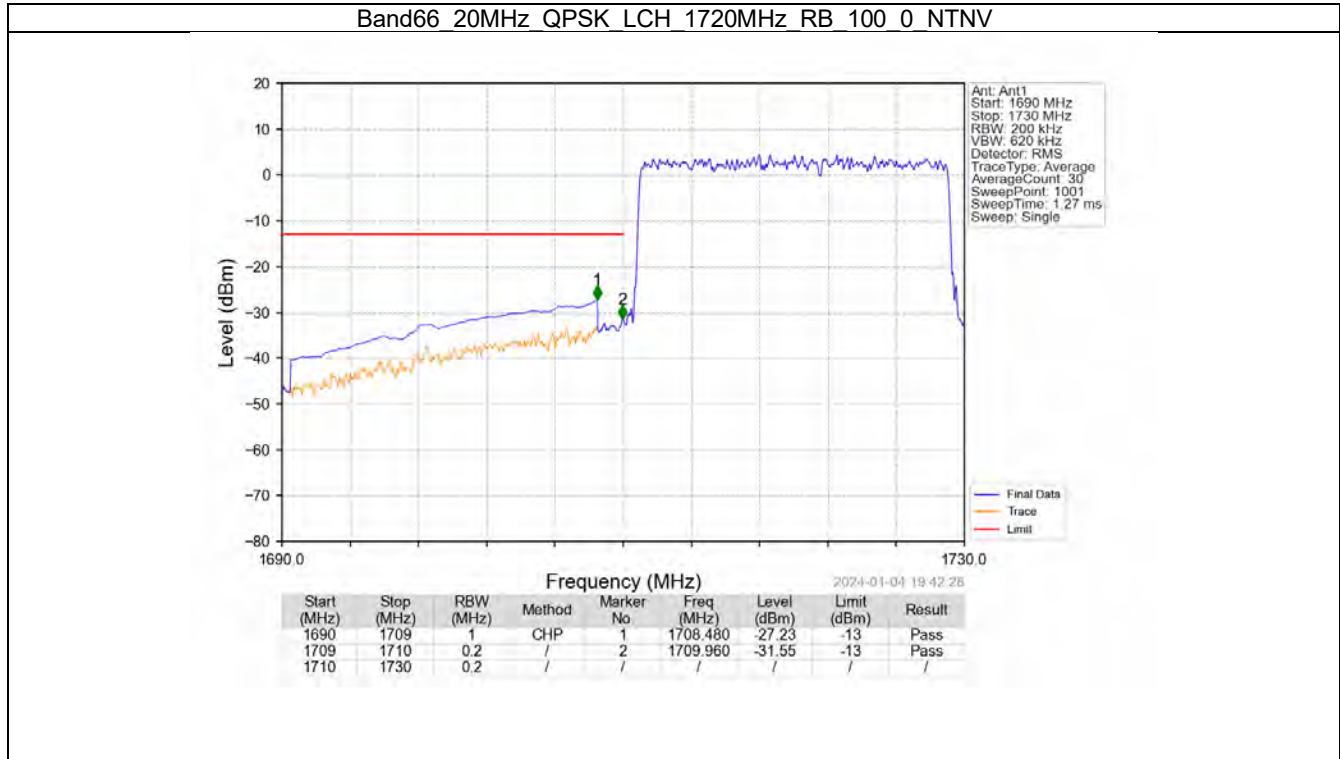


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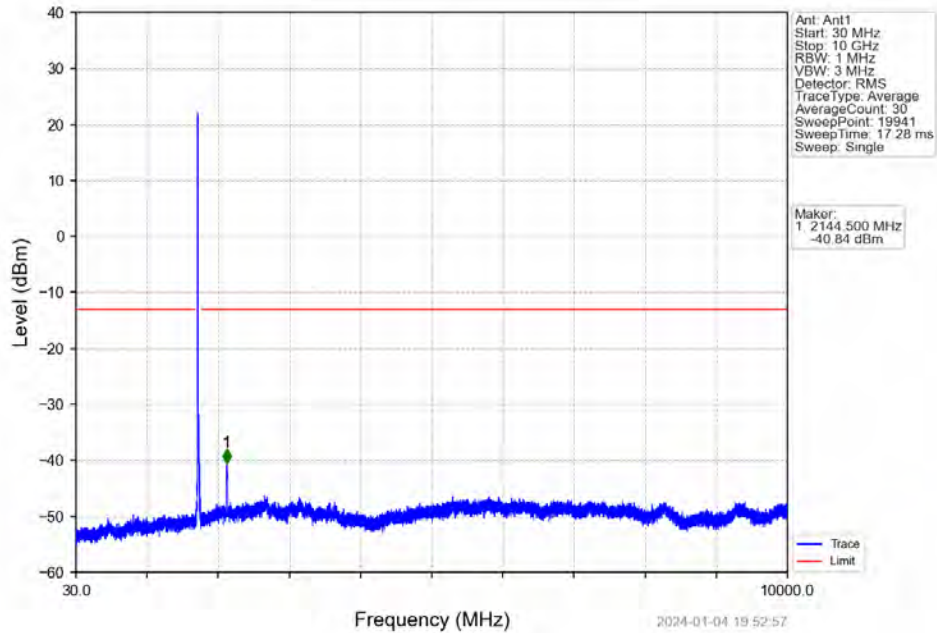


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Band66 20MHz QPSK MCH 1745MHz RB 1 0 NTV



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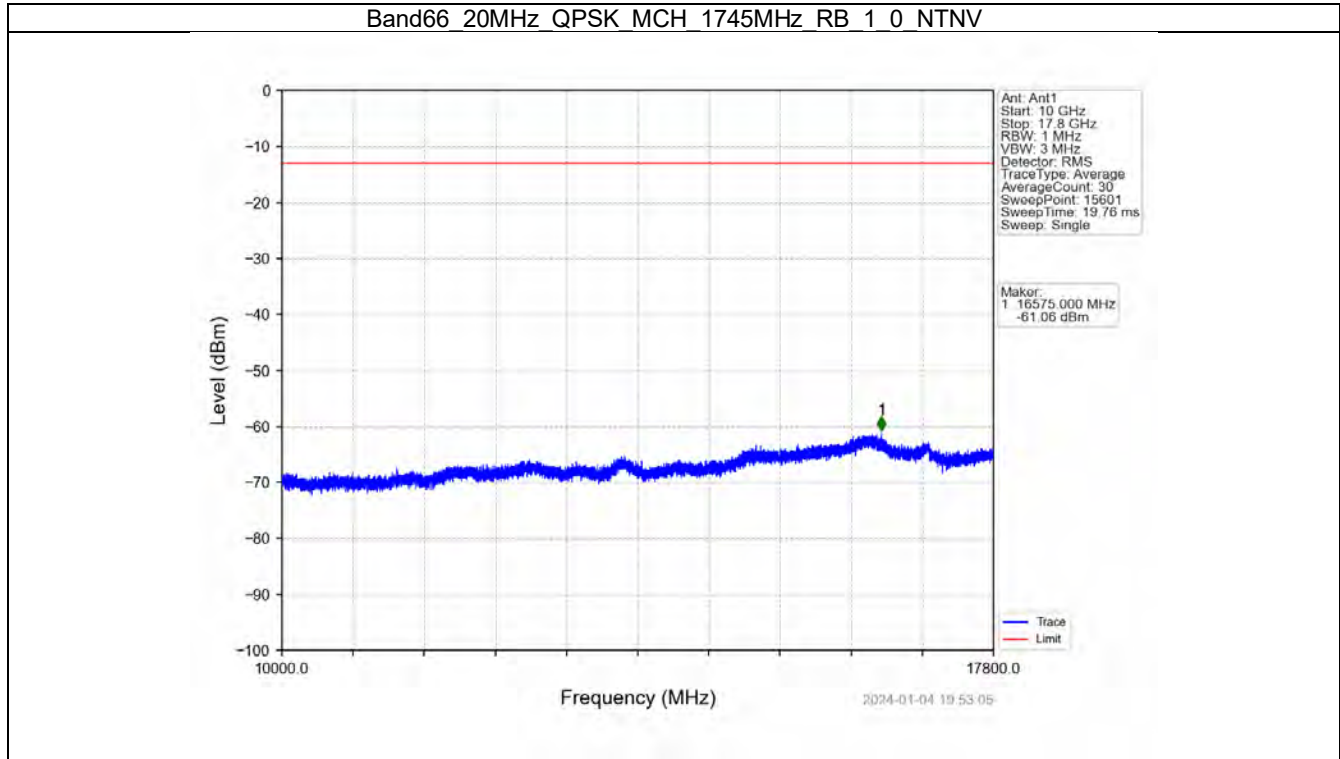
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Band66 20MHz QPSK MCH 1745MHz RB 1 0 NTNV



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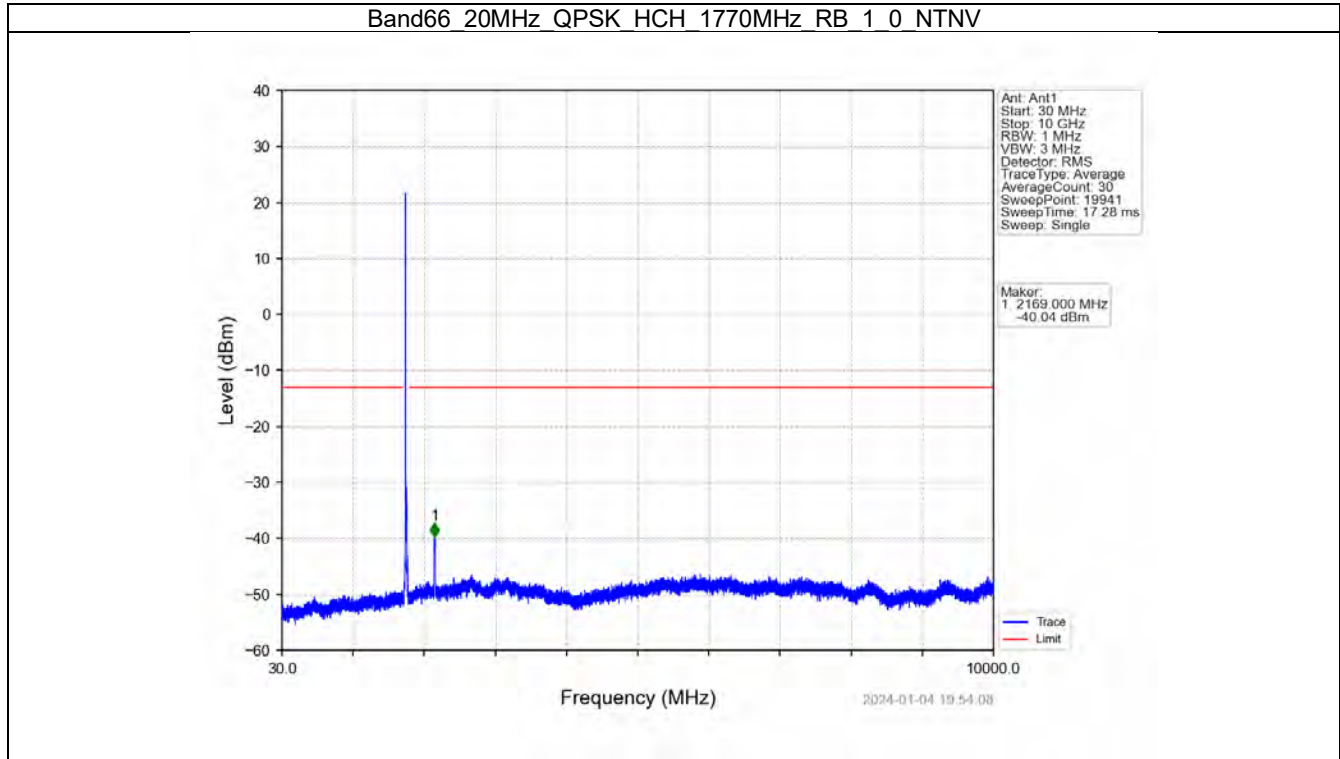
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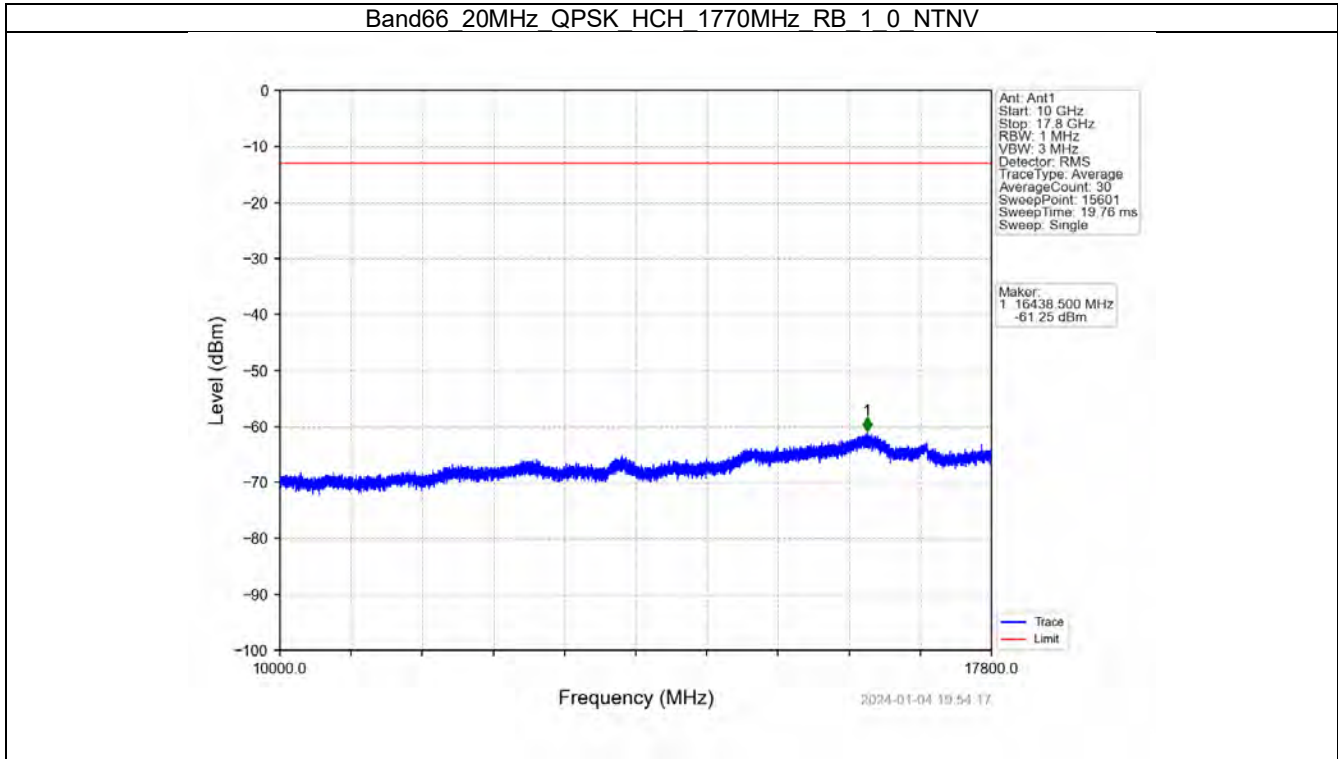
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Band66 20MHz QPSK HCH 1770MHz RB 1 0 NTNV



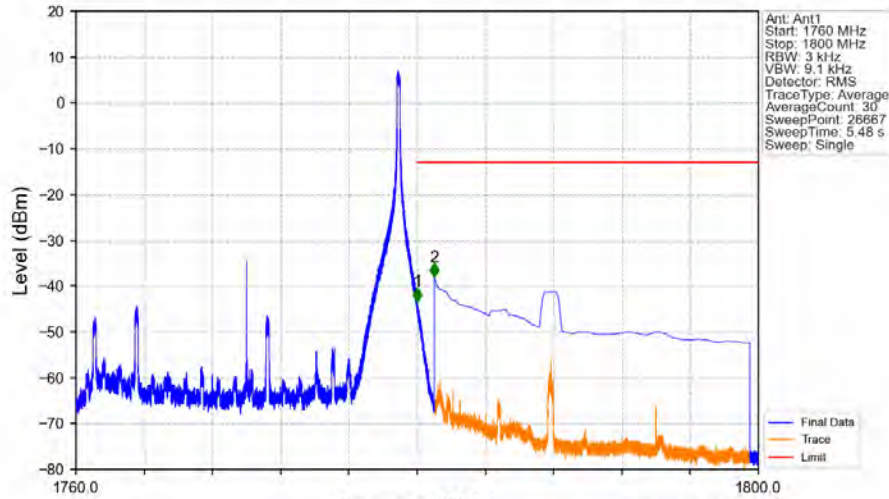
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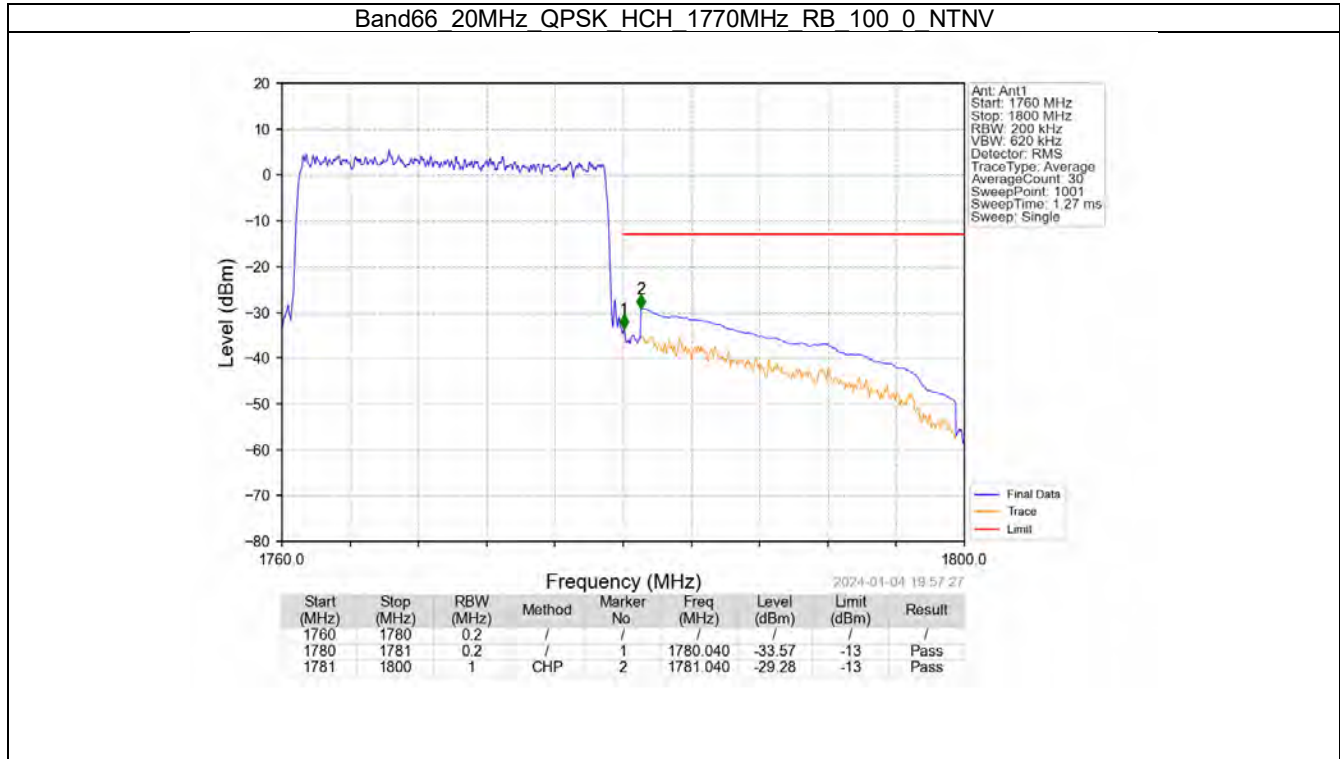
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1760	1780	0.003	/	1	1780.003	-43.40	-13	Pass
1780	1781	0.003	/	1	1780.003	-43.40	-13	Pass
1781	1800	1	CHP	2	1781.001	-37.99	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band66_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.1800	40.60	-46.28	28.54	-72.40	-13.00	59.40	Horizontal
2	5106.2700	38.73	-45.36	31.66	-70.24	-13.00	57.24	Horizontal
3	6808.3600	38.04	-44.16	34.86	-66.53	-13.00	53.53	Horizontal
4	8510.4500	35.44	-41.59	36.54	-64.86	-13.00	51.86	Horizontal
5	10212.5400	31.22	-39.45	38.31	-65.18	-13.00	52.18	Horizontal
6	11914.6300	27.68	-37.18	38.79	-65.97	-13.00	52.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.1800	40.85	-46.28	28.54	-72.15	-13.00	59.15	Vertical
2	5106.2700	39.38	-45.36	31.66	-69.59	-13.00	56.59	Vertical
3	6808.3600	38.27	-44.16	34.86	-66.30	-13.00	53.30	Vertical
4	8510.4500	35.14	-41.59	36.54	-65.16	-13.00	52.16	Vertical
5	10212.5400	31.43	-39.45	38.31	-64.97	-13.00	51.97	Vertical
6	11914.6300	26.52	-37.18	38.79	-67.13	-13.00	54.13	Vertical



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Test Band = LTE Band66_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.1800	41.60	-46.27	28.57	-71.36	-13.00	58.36	Horizontal
2	5181.2700	38.51	-45.30	31.84	-70.21	-13.00	57.21	Horizontal
3	6908.3600	37.72	-44.05	35.04	-66.55	-13.00	53.55	Horizontal
4	8635.4500	35.02	-41.46	36.48	-65.22	-13.00	52.22	Horizontal
5	10362.5400	30.93	-39.04	38.38	-64.99	-13.00	51.99	Horizontal
6	12089.6300	27.15	-37.37	38.83	-66.65	-13.00	53.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.1800	41.19	-46.27	28.57	-71.77	-13.00	58.77	Vertical
2	5181.2700	39.01	-45.30	31.84	-69.71	-13.00	56.71	Vertical
3	6908.3600	38.04	-44.05	35.04	-66.23	-13.00	53.23	Vertical
4	8635.4500	35.44	-41.46	36.48	-64.80	-13.00	51.80	Vertical
5	10362.5400	30.92	-39.04	38.38	-65.00	-13.00	52.00	Vertical
6	12089.6300	27.39	-37.37	38.83	-66.41	-13.00	53.41	Vertical



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Test Band = LTE Band66_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.1800	40.99	-46.25	28.60	-71.92	-13.00	58.92	Horizontal
2	5256.2700	38.86	-45.17	32.02	-69.56	-13.00	56.56	Horizontal
3	7008.3600	37.86	-43.61	35.22	-65.78	-13.00	52.78	Horizontal
4	8760.4500	35.11	-41.42	36.42	-65.15	-13.00	52.15	Horizontal
5	10512.5400	31.00	-38.76	38.46	-64.56	-13.00	51.56	Horizontal
6	12262.6300	27.73	-37.44	38.88	-66.09	-13.00	53.09	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.1800	41.55	-46.25	28.60	-71.36	-13.00	58.36	Vertical
2	5256.2700	39.90	-45.17	32.02	-68.52	-13.00	55.52	Vertical
3	7008.3600	37.38	-43.61	35.22	-66.26	-13.00	53.26	Vertical
4	8760.4500	35.38	-41.42	36.42	-64.88	-13.00	51.88	Vertical
5	10512.5400	30.54	-38.76	38.46	-65.02	-13.00	52.02	Vertical
6	12262.6300	27.49	-37.44	38.88	-66.33	-13.00	53.33	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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