

4. Peak-Average Ratio

4.1 Test Result

4.1.1 B66_1.4MHz

Band: 66 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.10	<=13	Pass
	1745	6	0	5.10	<=13	Pass
	1779.3	6	0	4.96	<=13	Pass
16QAM	1710.7	6	0	6.08	<=13	Pass
	1745	6	0	6.06	<=13	Pass
	1779.3	6	0	5.99	<=13	Pass
64QAM	1710.7	6	0	6.11	<=13	Pass
	1745	6	0	6.08	<=13	Pass
	1779.3	6	0	5.96	<=13	Pass
256QAM	1710.7	6	0	6.91	<=13	Pass
	1745	6	0	6.96	<=13	Pass
	1779.3	6	0	6.95	<=13	Pass

4.1.2 B66_3MHz

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	5.22	<=13	Pass
	1778.5	15	0	5.22	<=13	Pass
16QAM	1711.5	15	0	6.21	<=13	Pass
	1745	15	0	6.21	<=13	Pass
	1778.5	15	0	6.16	<=13	Pass
64QAM	1711.5	15	0	6.19	<=13	Pass
	1745	15	0	6.08	<=13	Pass
	1778.5	15	0	6.14	<=13	Pass
256QAM	1711.5	15	0	6.91	<=13	Pass
	1745	15	0	6.96	<=13	Pass
	1778.5	15	0	6.96	<=13	Pass

4.1.3 B66_5MHz

Band: 66 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.44	<=13	Pass
	1745	25	0	5.39	<=13	Pass
	1777.5	25	0	5.46	<=13	Pass
16QAM	1712.5	25	0	6.30	<=13	Pass
	1745	25	0	6.21	<=13	Pass

	1777.5	25	0	6.29	<=13	Pass
64QAM	1712.5	25	0	6.30	<=13	Pass
	1745	25	0	6.22	<=13	Pass
	1777.5	25	0	6.28	<=13	Pass
256QAM	1712.5	25	0	6.85	<=13	Pass
	1745	25	0	6.89	<=13	Pass
	1777.5	25	0	6.88	<=13	Pass

4.1.4 B66_10MHz

Band: 66 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.56	<=13	Pass
	1745	50	0	5.51	<=13	Pass
	1775	50	0	5.45	<=13	Pass
16QAM	1715	50	0	6.33	<=13	Pass
	1745	50	0	6.26	<=13	Pass
	1775	50	0	6.20	<=13	Pass
64QAM	1715	50	0	6.33	<=13	Pass
	1745	50	0	6.25	<=13	Pass
	1775	50	0	6.20	<=13	Pass
256QAM	1715	50	0	6.83	<=13	Pass
	1745	50	0	6.90	<=13	Pass
	1775	50	0	6.85	<=13	Pass

4.1.5 B66_15MHz

Band: 66 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.56	<=13	Pass
	1745	75	0	5.50	<=13	Pass
	1772.5	75	0	5.45	<=13	Pass
16QAM	1717.5	75	0	6.32	<=13	Pass
	1745	75	0	6.28	<=13	Pass
	1772.5	75	0	6.15	<=13	Pass
64QAM	1717.5	75	0	6.32	<=13	Pass
	1745	75	0	6.28	<=13	Pass
	1772.5	75	0	6.14	<=13	Pass
256QAM	1717.5	75	0	6.86	<=13	Pass
	1745	75	0	6.92	<=13	Pass
	1772.5	75	0	6.83	<=13	Pass

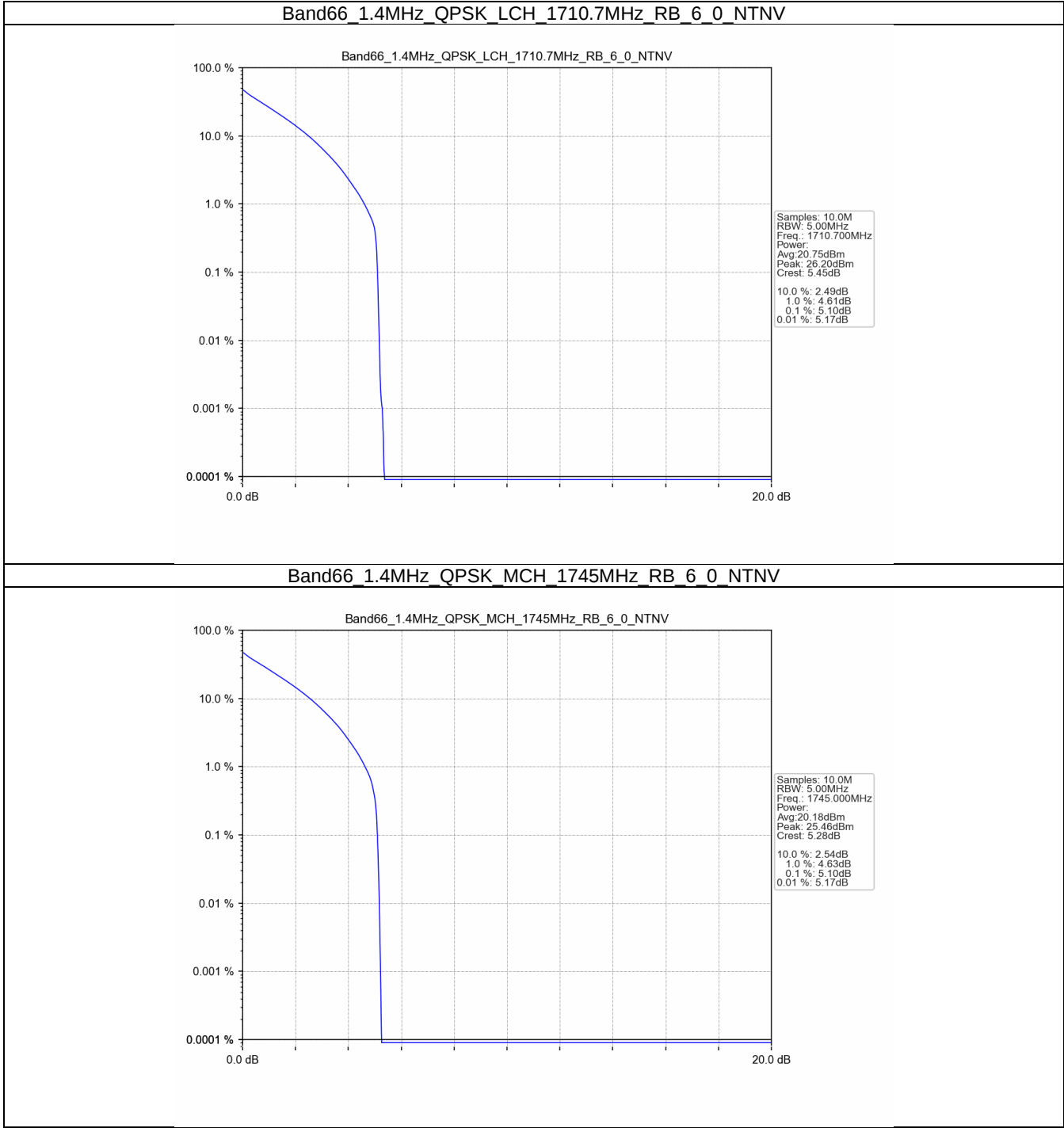
4.1.6 B66_20MHz

Band: 66 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.35	<=13	Pass
	1745	100	0	5.48	<=13	Pass
	1770	100	0	5.19	<=13	Pass

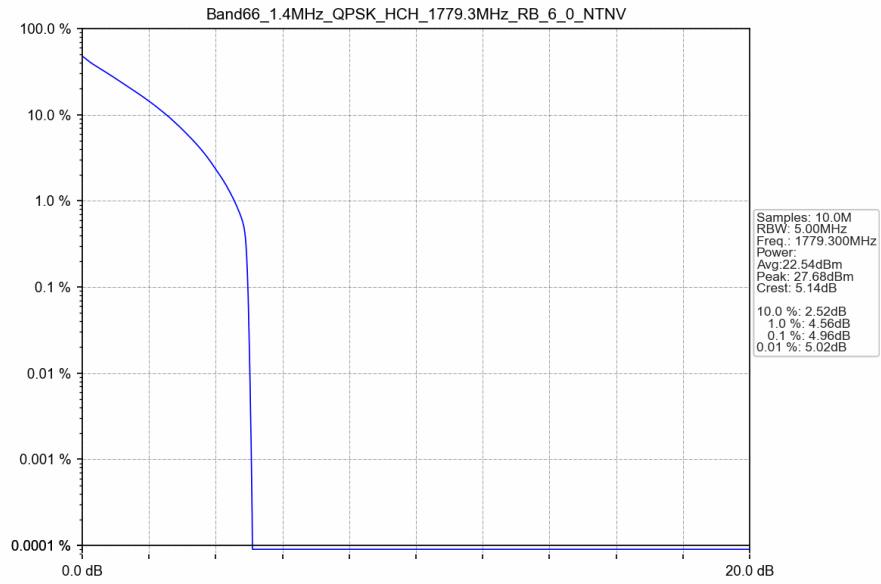
16QAM	1720	100	0	6.24	≤ 13	Pass
	1745	100	0	6.26	≤ 13	Pass
	1770	100	0	6.09	≤ 13	Pass
64QAM	1720	100	0	6.24	≤ 13	Pass
	1745	100	0	6.27	≤ 13	Pass
	1770	100	0	6.10	≤ 13	Pass
256QAM	1720	100	0	6.81	≤ 13	Pass
	1745	100	0	6.92	≤ 13	Pass
	1770	100	0	6.79	≤ 13	Pass

4.2 Test Graph

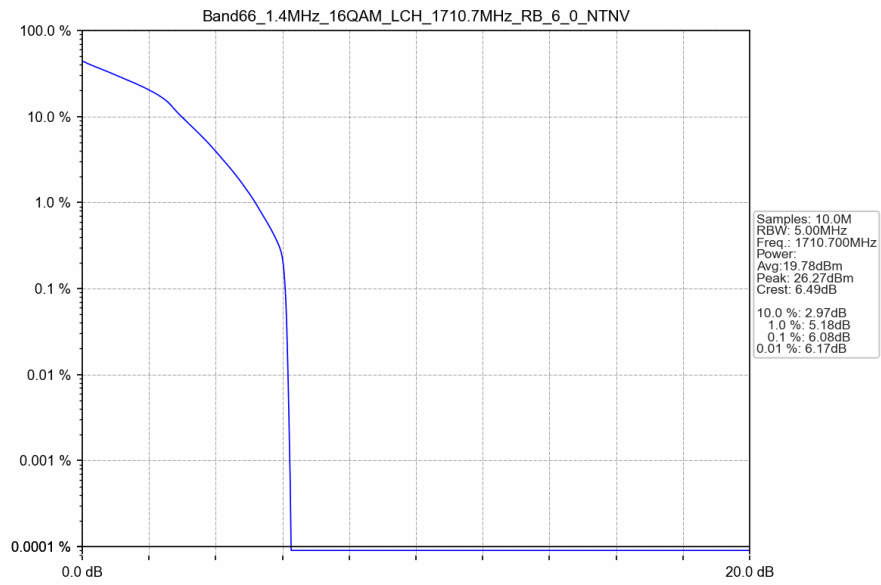
4.2.1 B66_1.4MHz



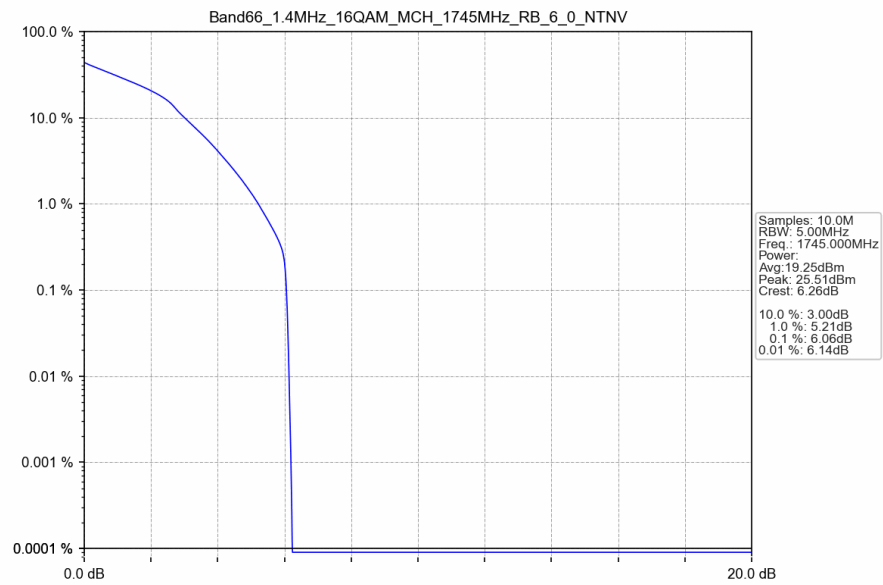
Band66 1.4MHz QPSK HCH 1779.3MHz RB 6 0 NTV



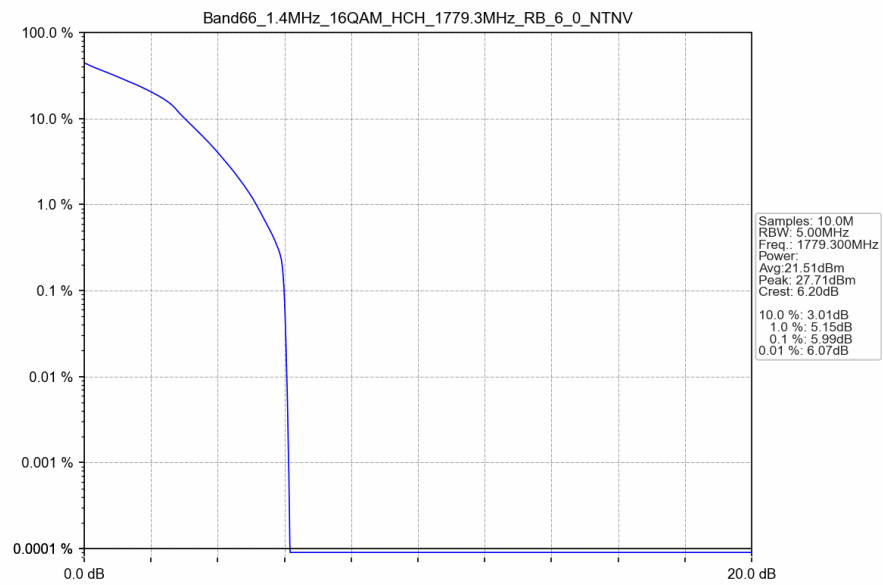
Band66 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



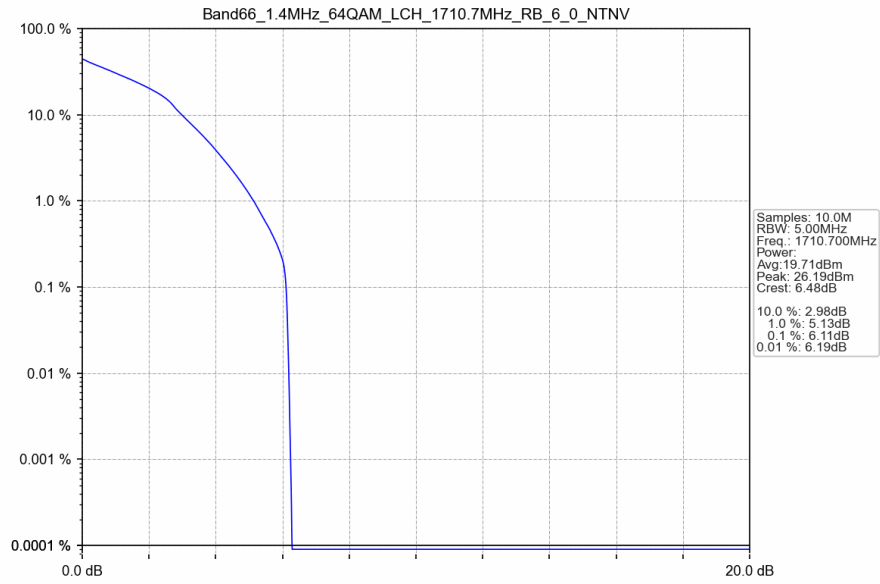
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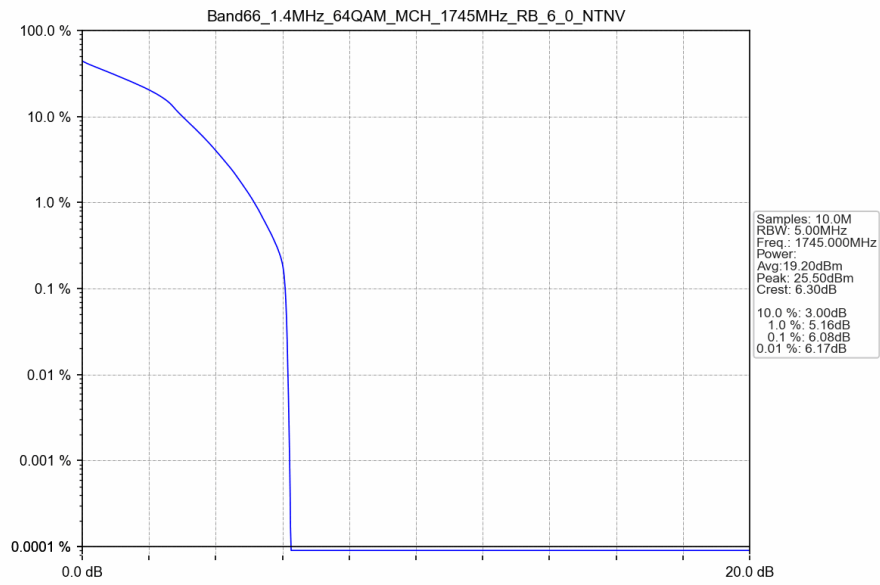
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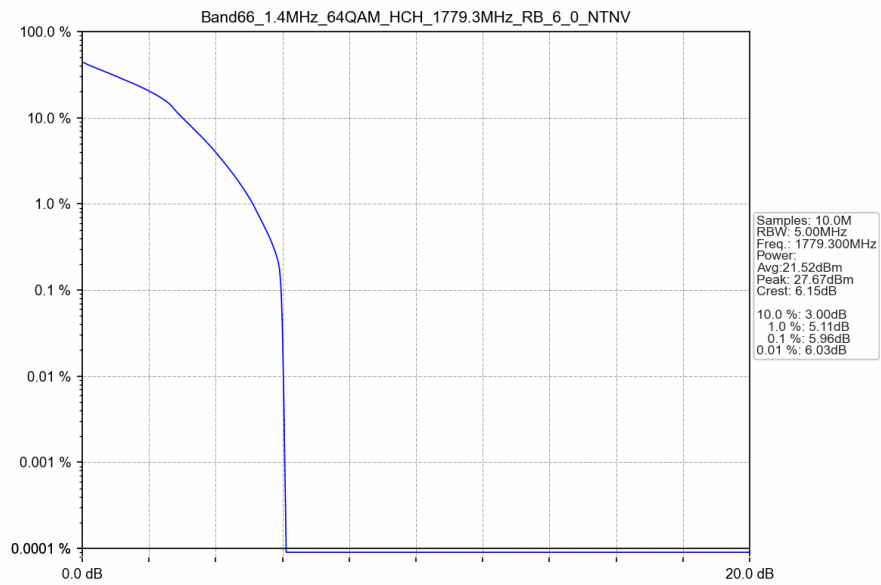
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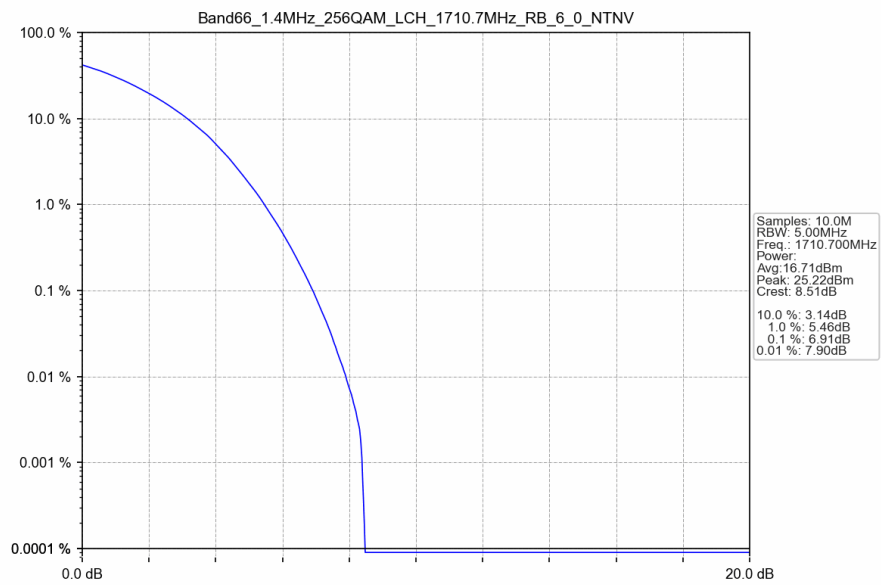
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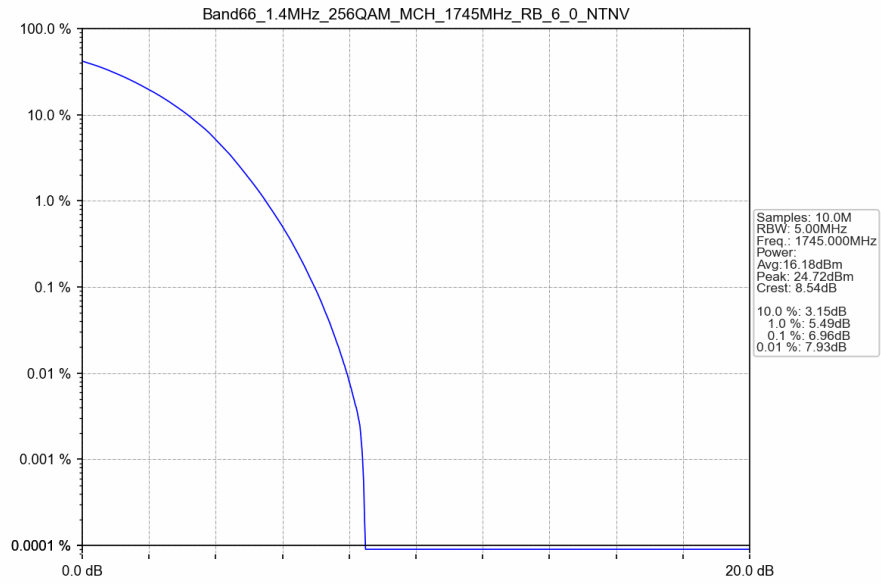
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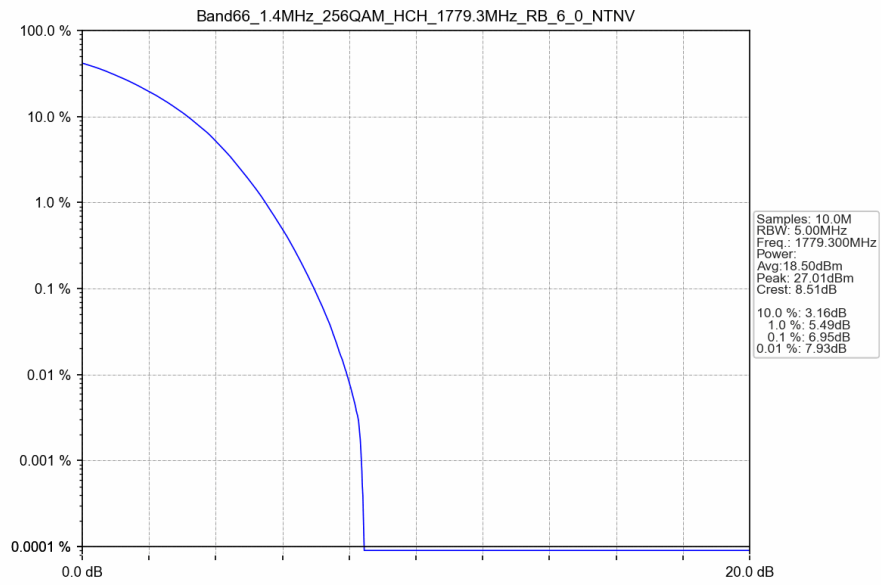
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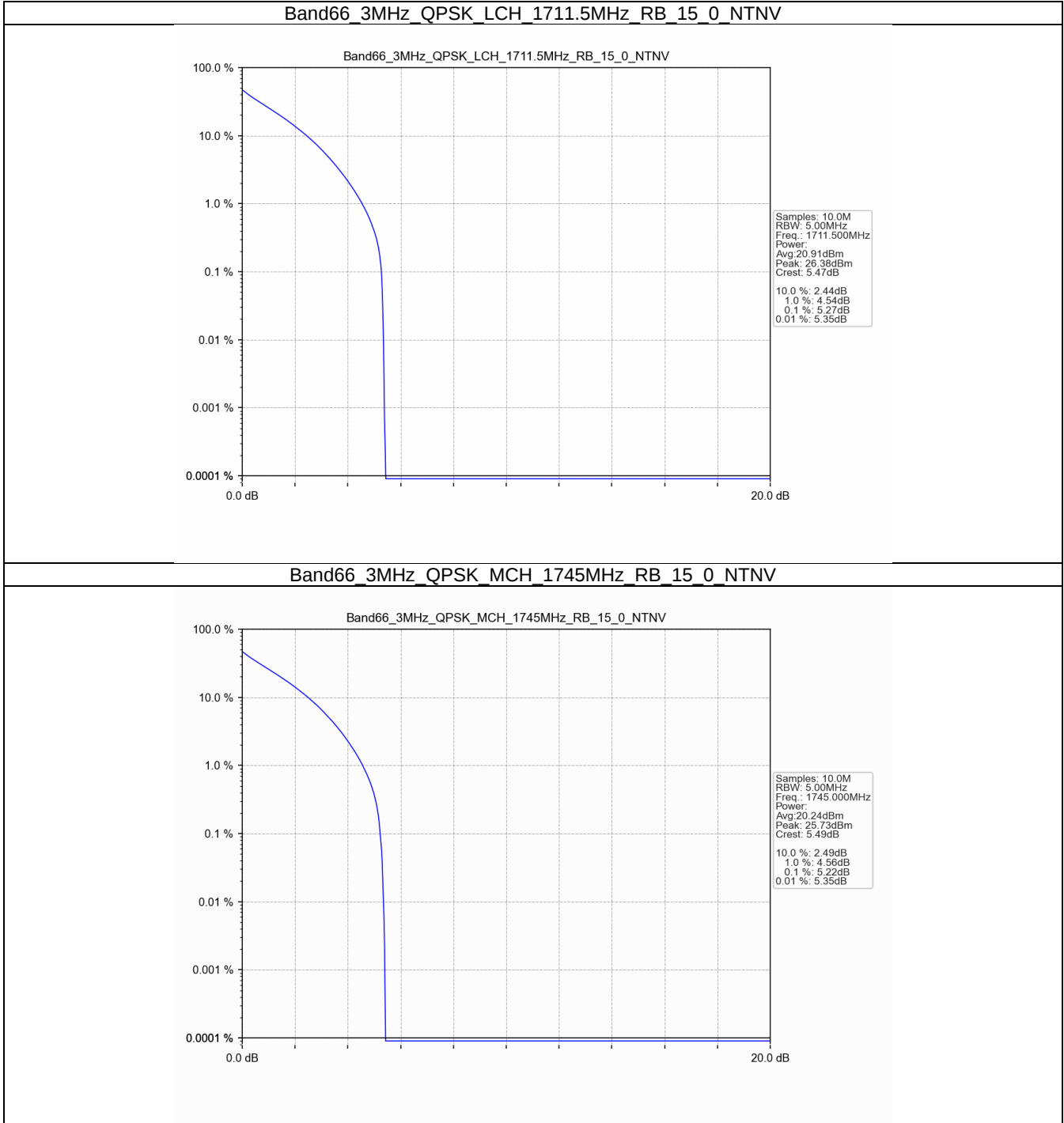
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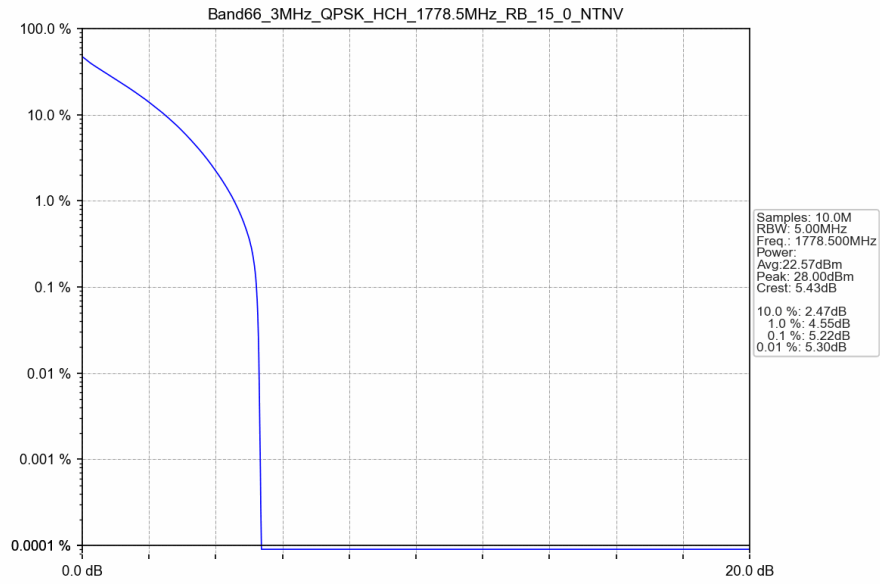
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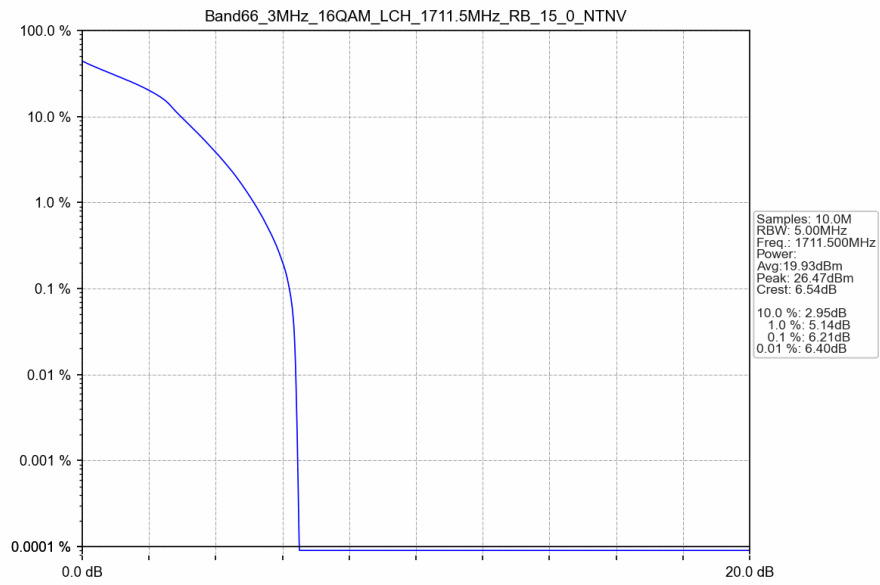
4.2.2 B66_3MHz



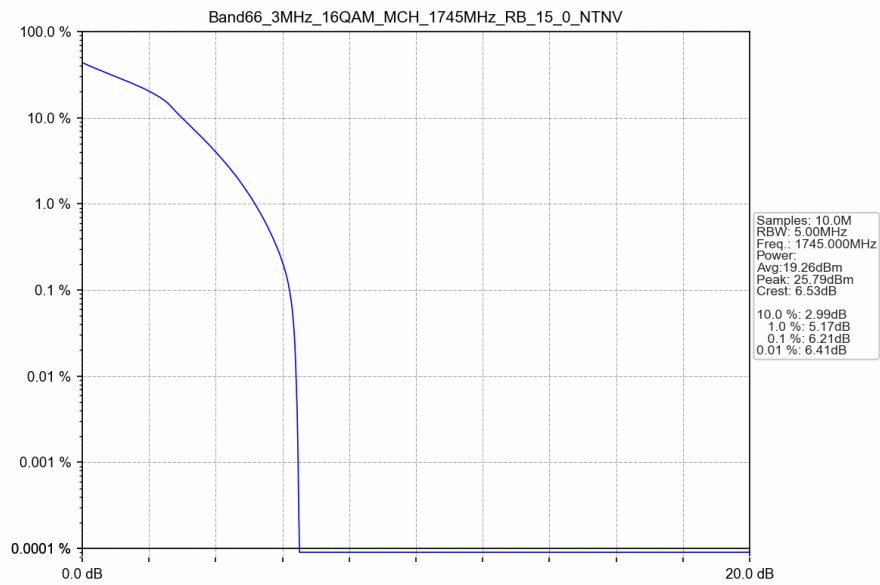
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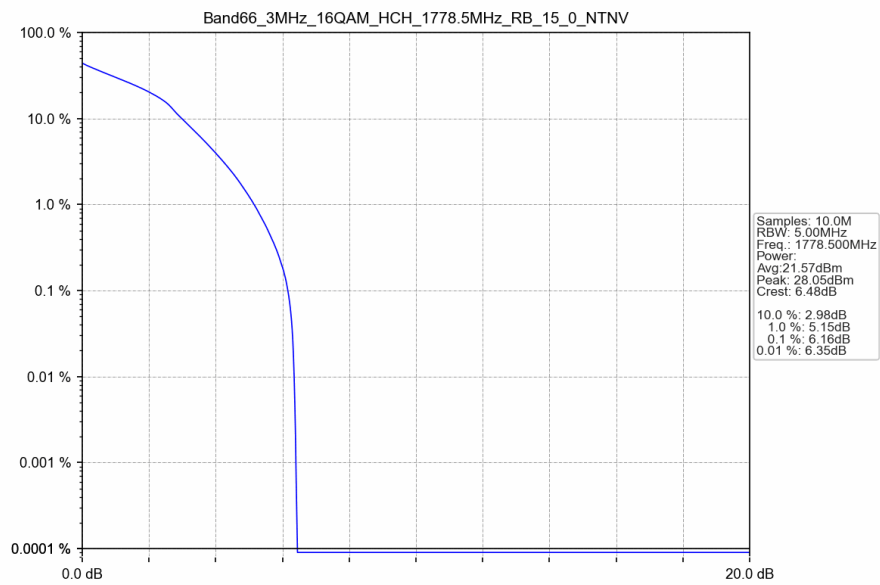
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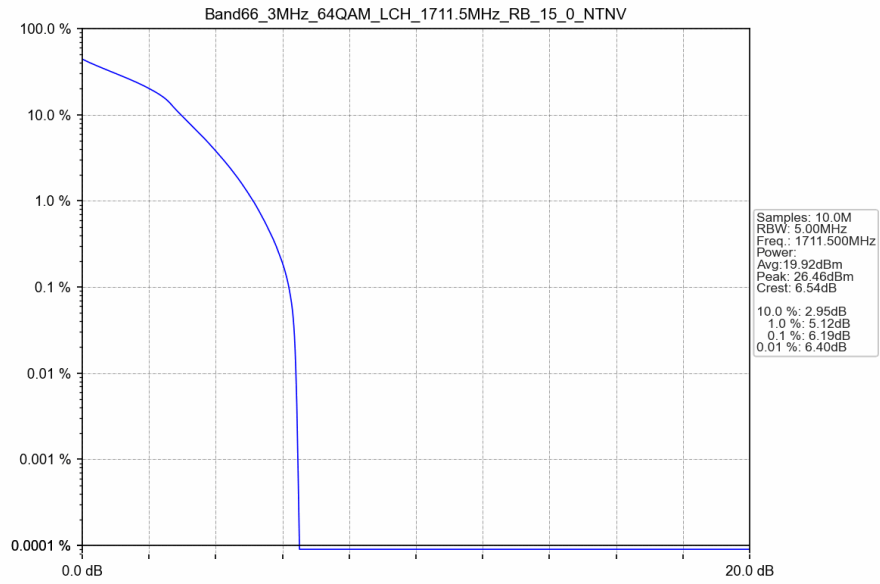
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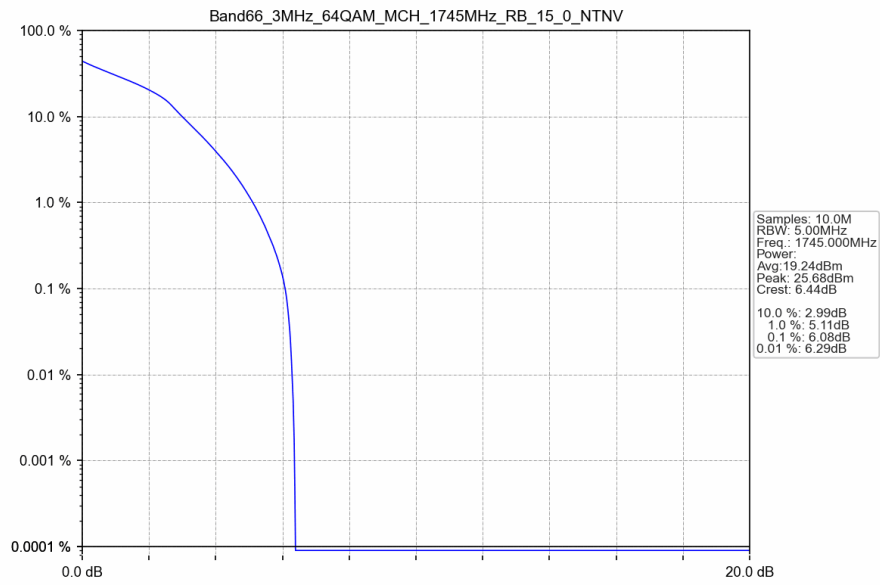
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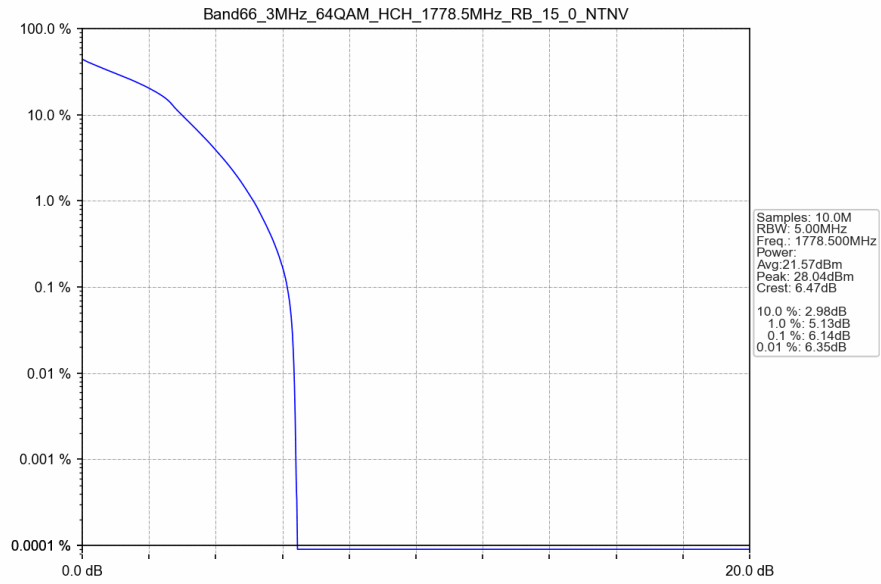
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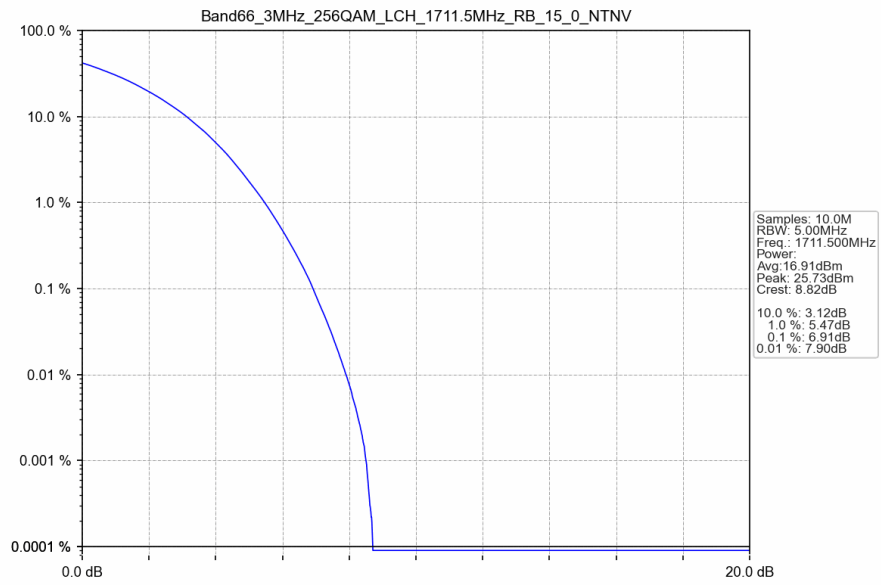
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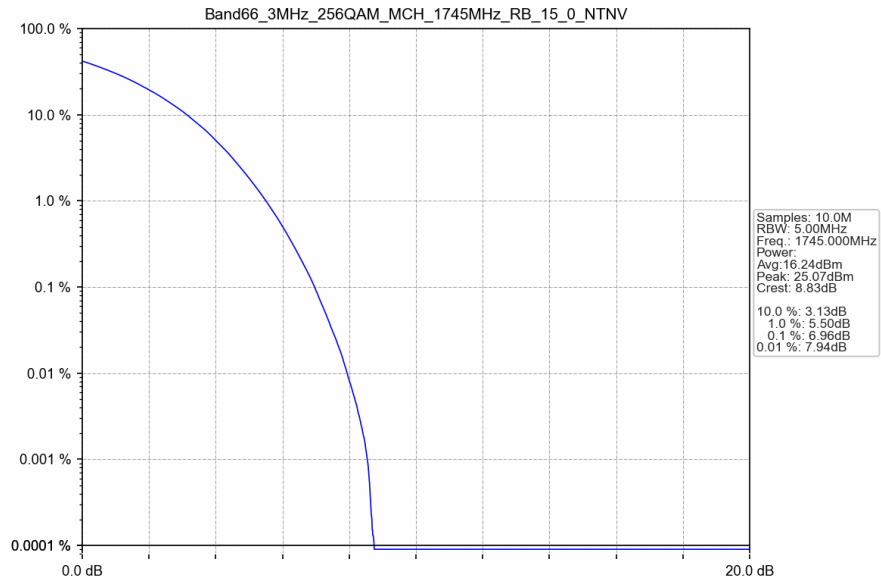
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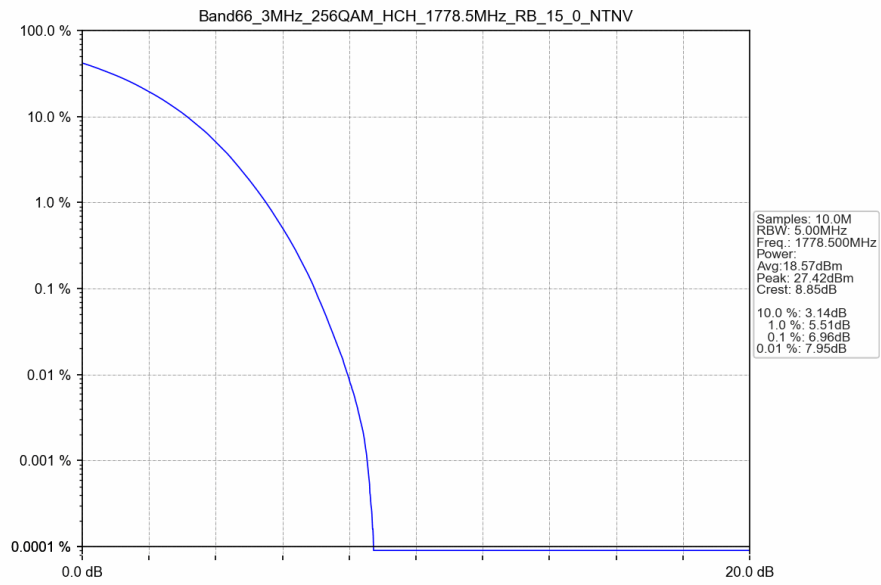
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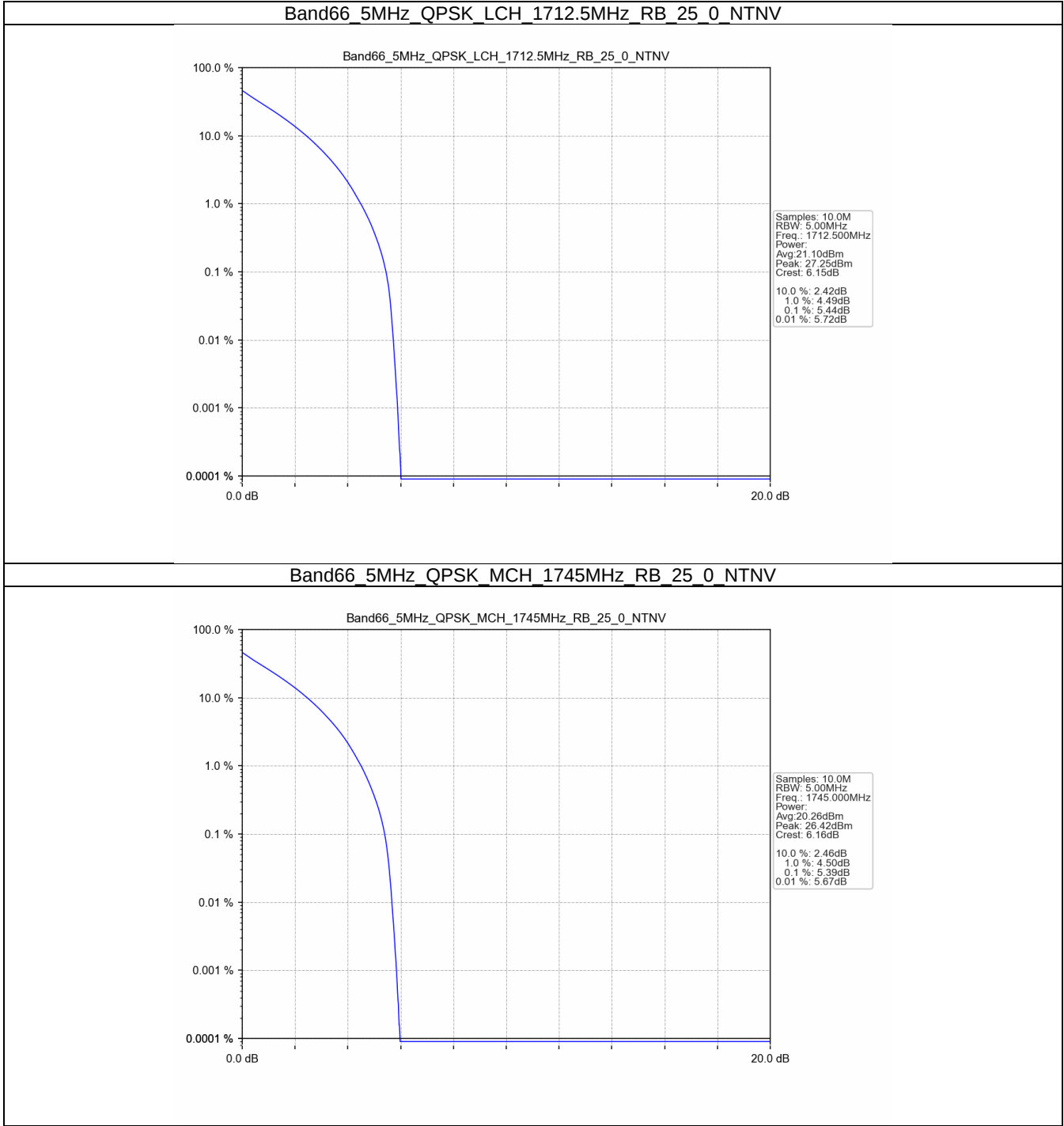
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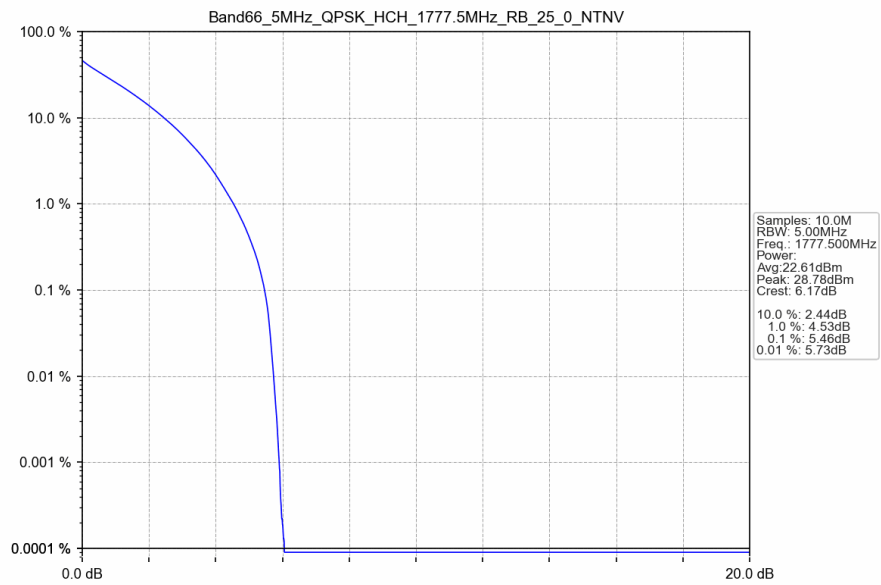
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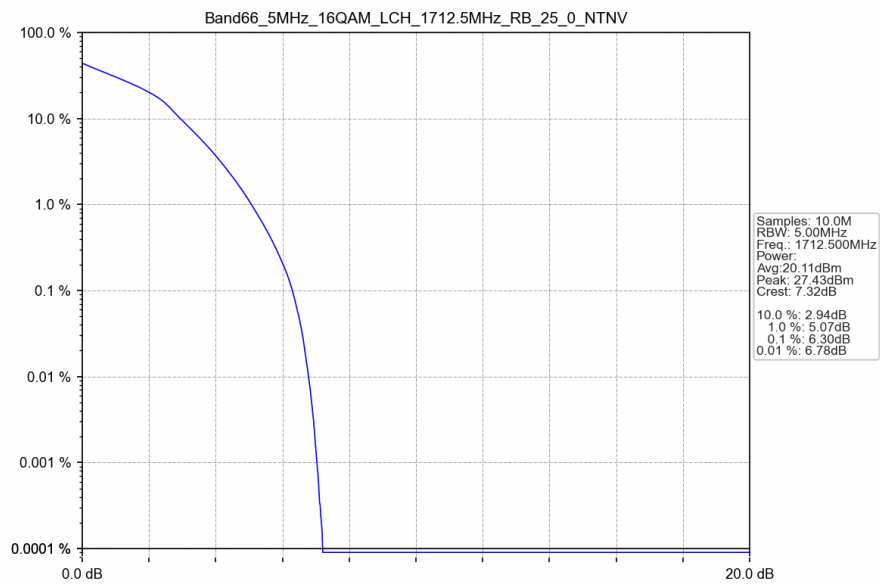
4.2.3 B66_5MHz



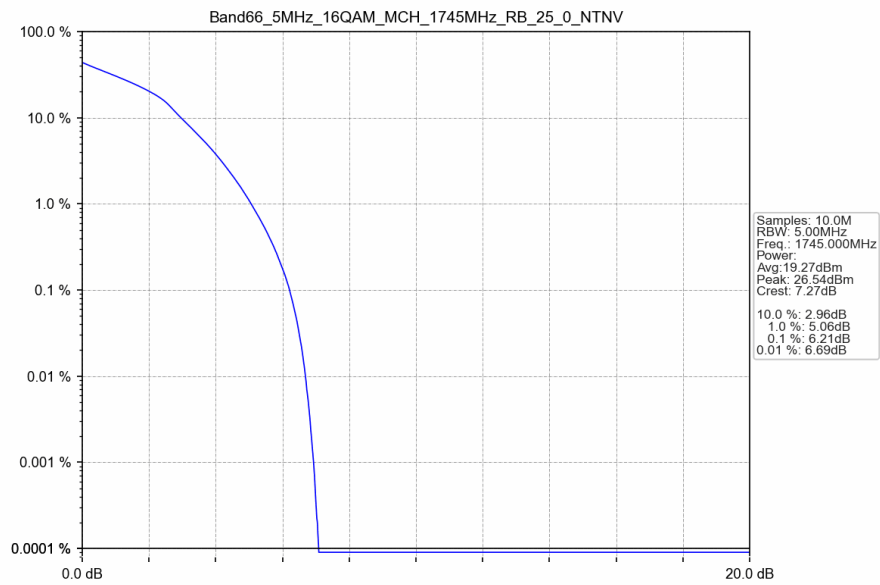
Band66 5MHz QPSK HCH 1777.5MHz RB 25 0 NTN



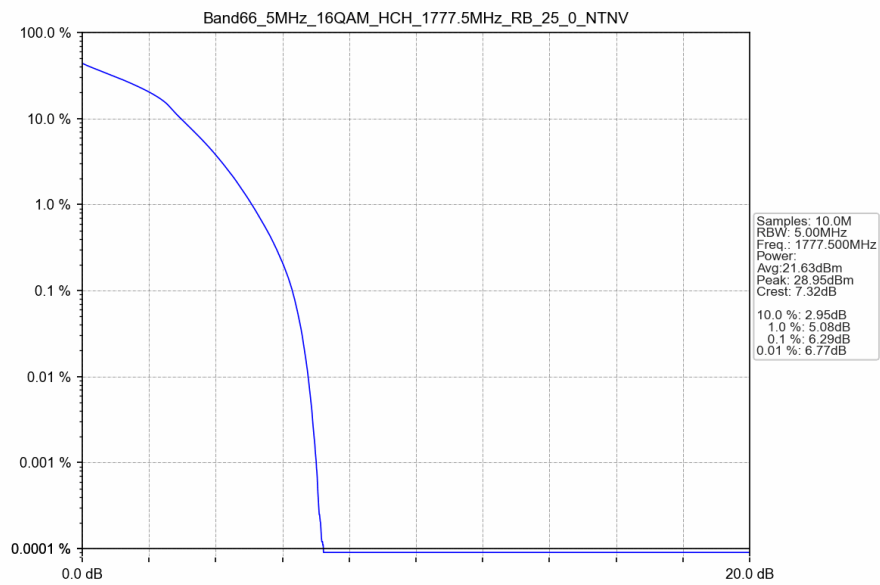
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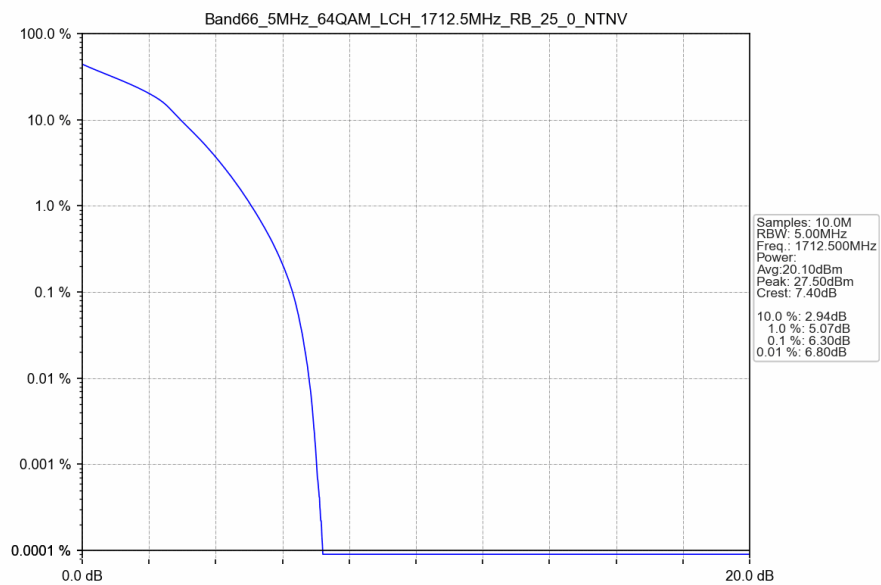
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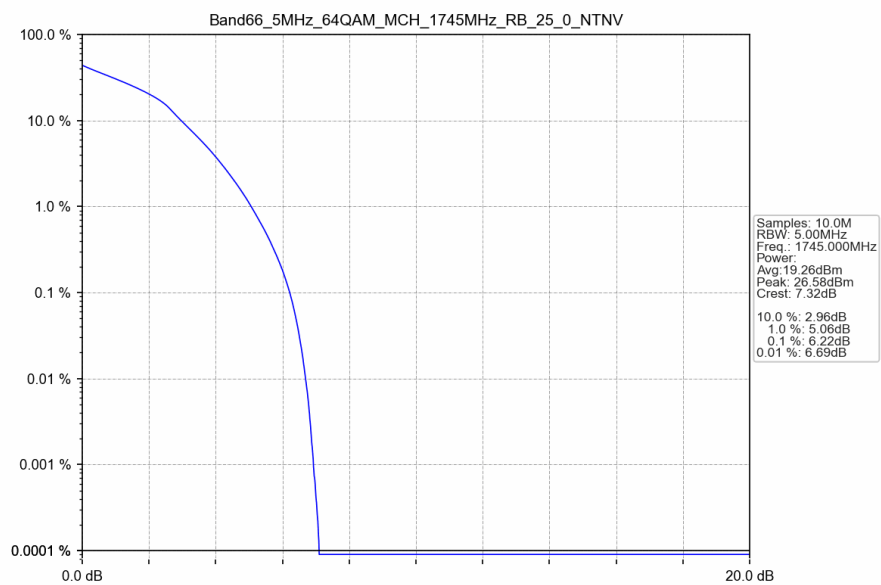
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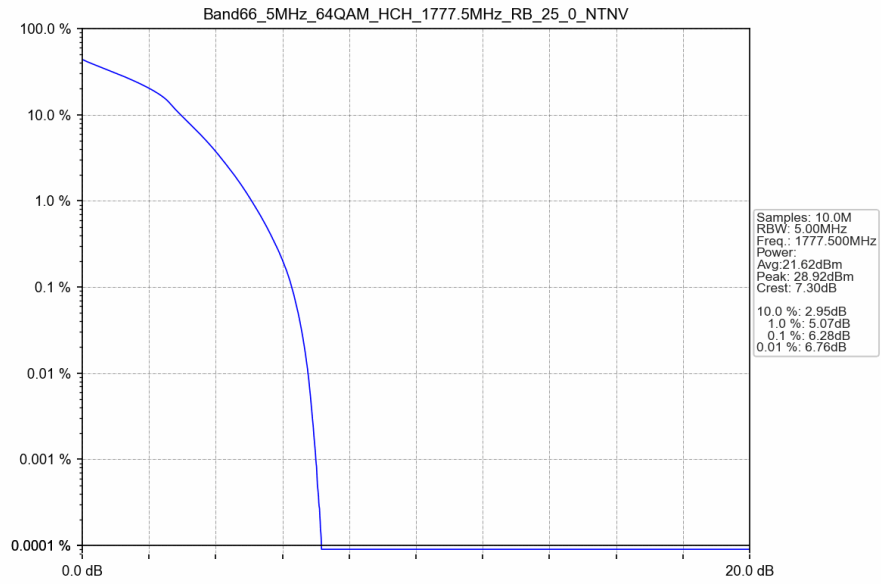
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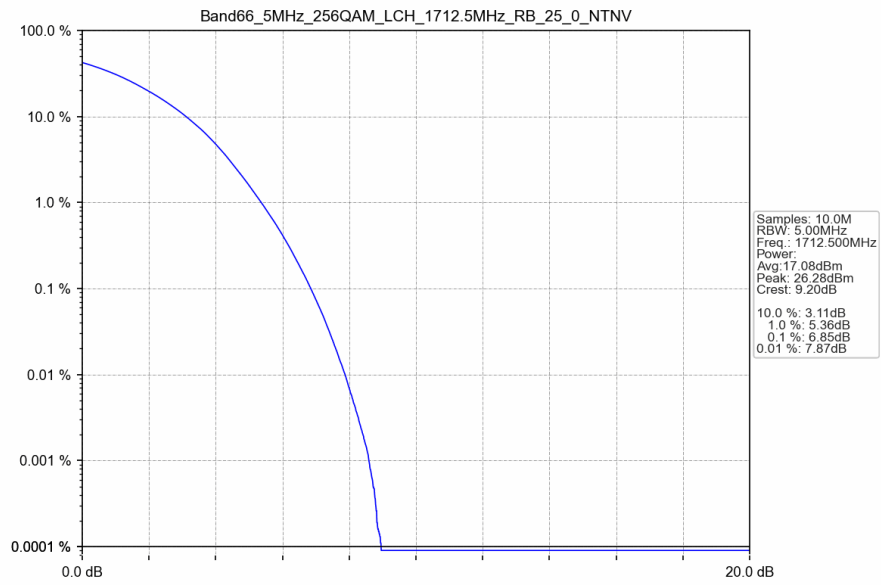
Band66 5MHz 64QAM MCH 1745MHz RB 25 0 NTNV



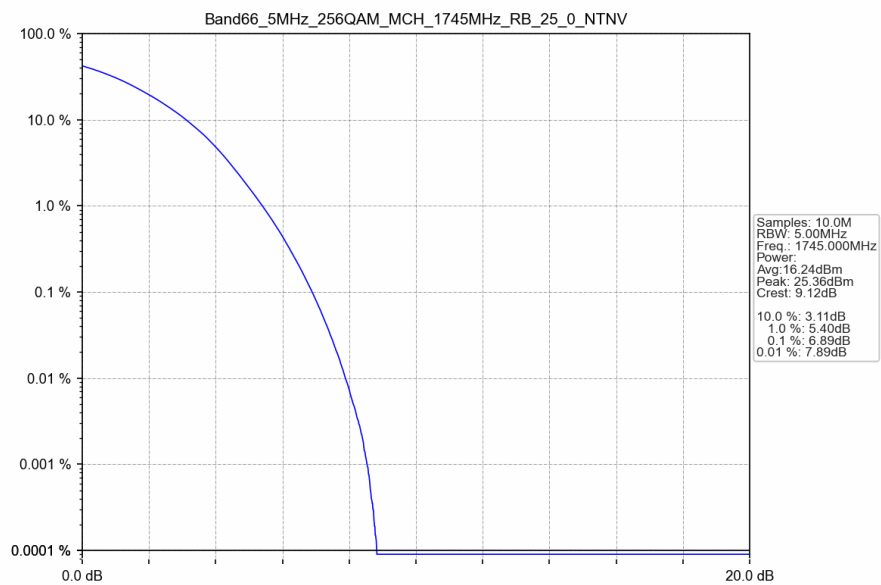
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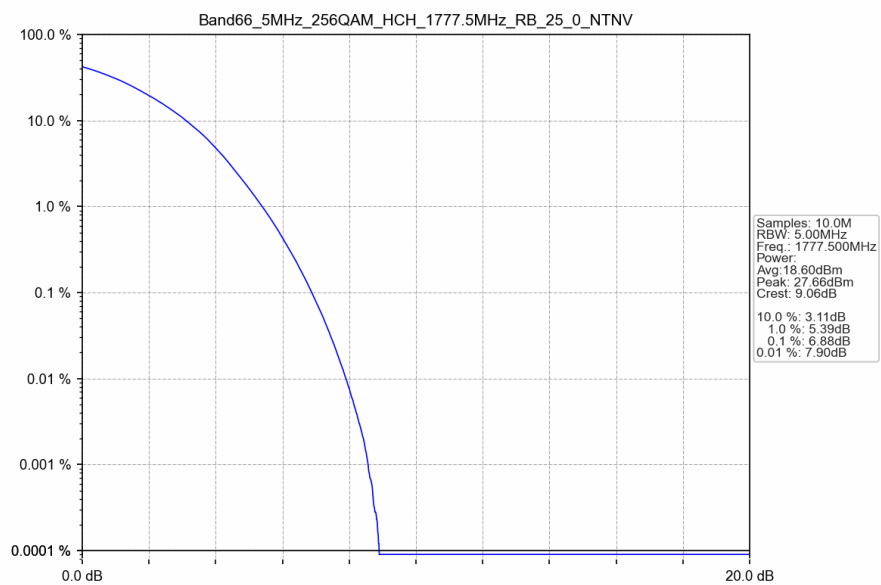
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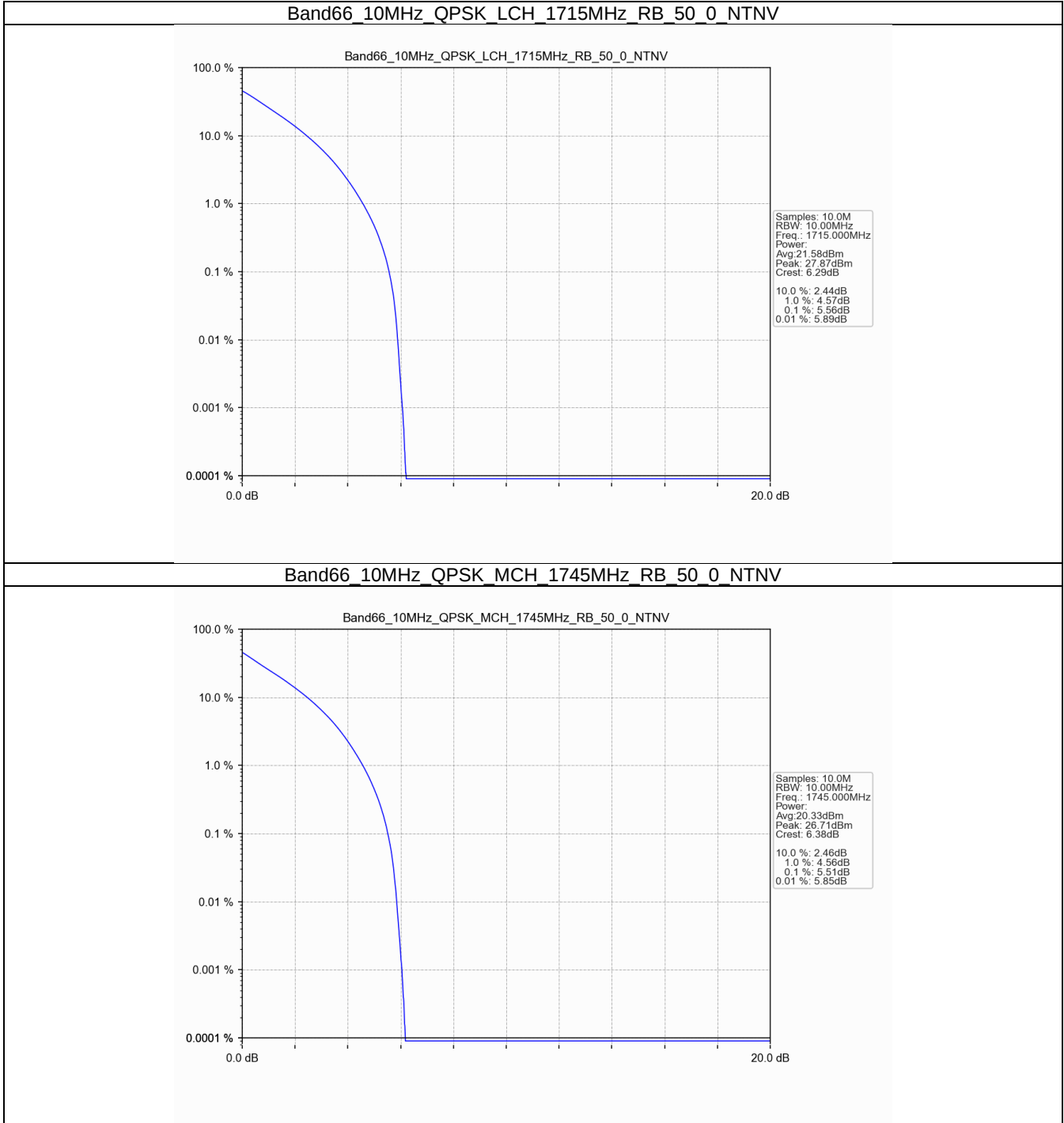
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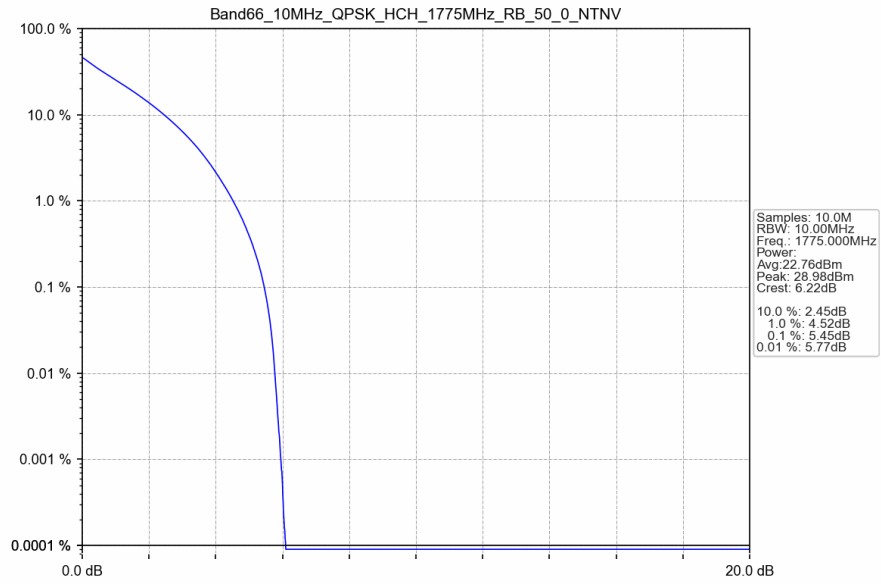
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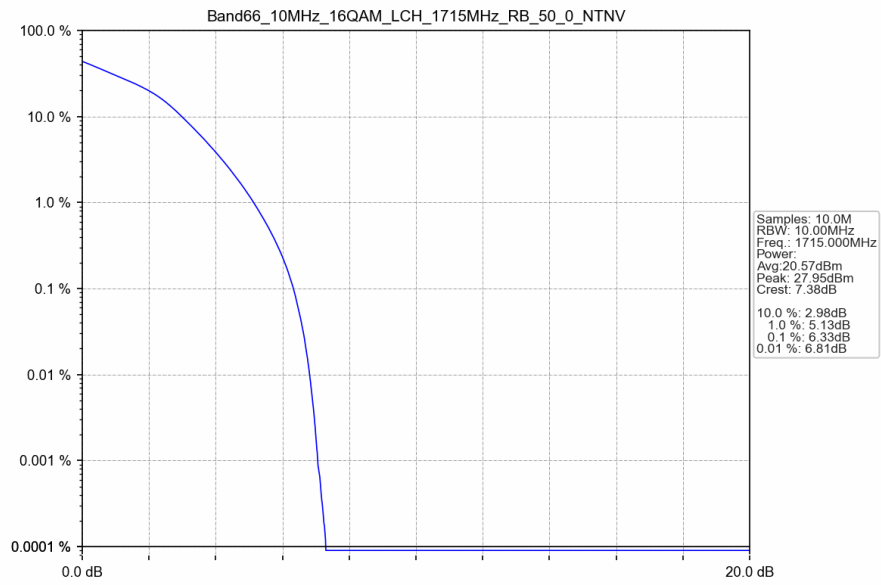
4.2.4 B66_10MHz



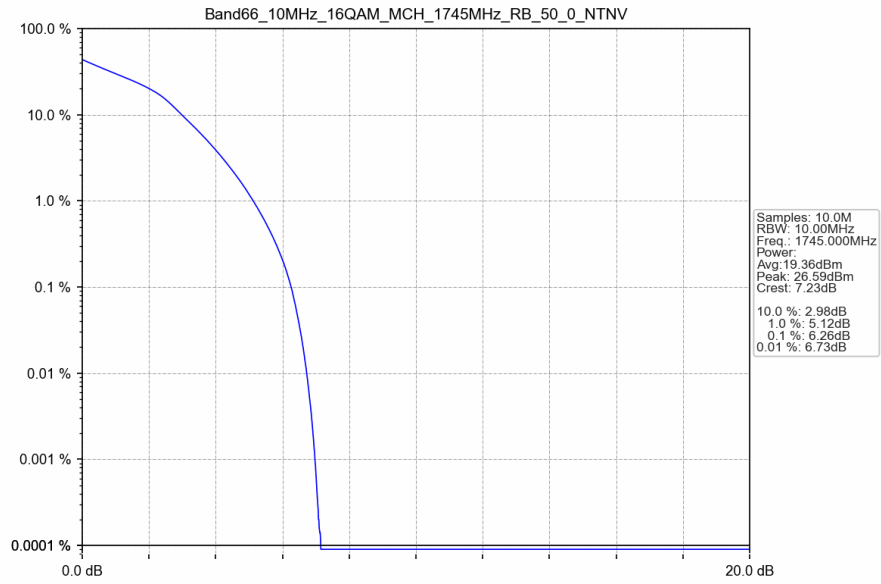
Band66_10MHz_QPSK_HCH_1775MHz_RB_50_0_NTNV



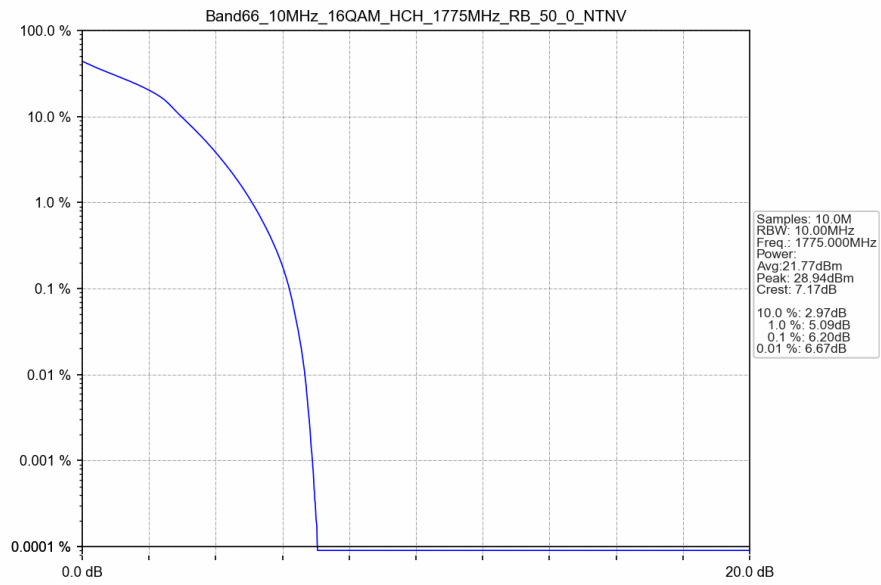
Band66_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



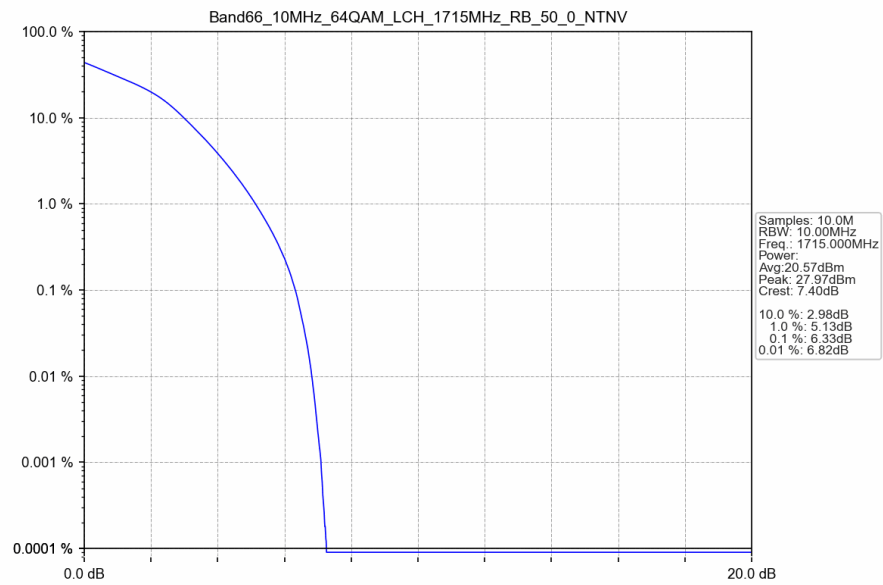
Band66 10MHz 16QAM MCH 1745MHz RB 50 0 NTN



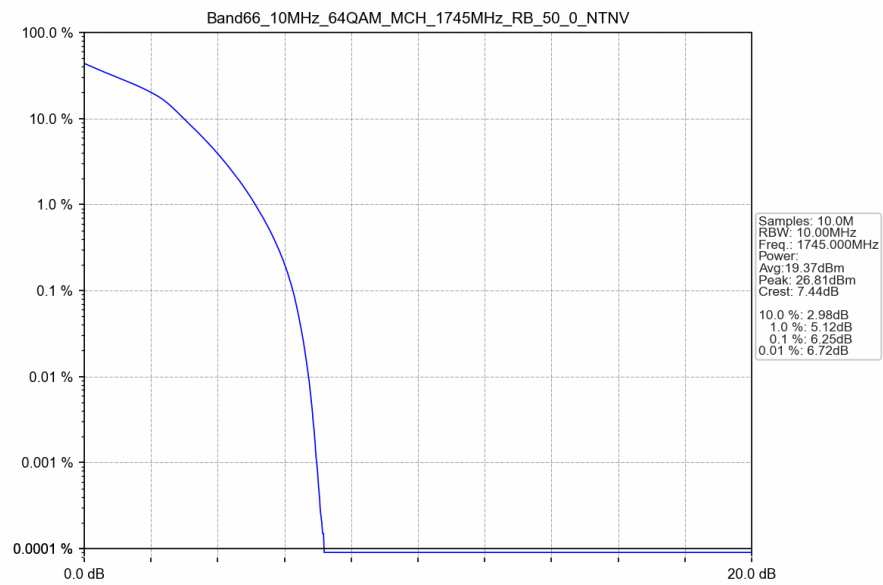
Band66 10MHz 16QAM HCH 1775MHz RB 50 0 NTN



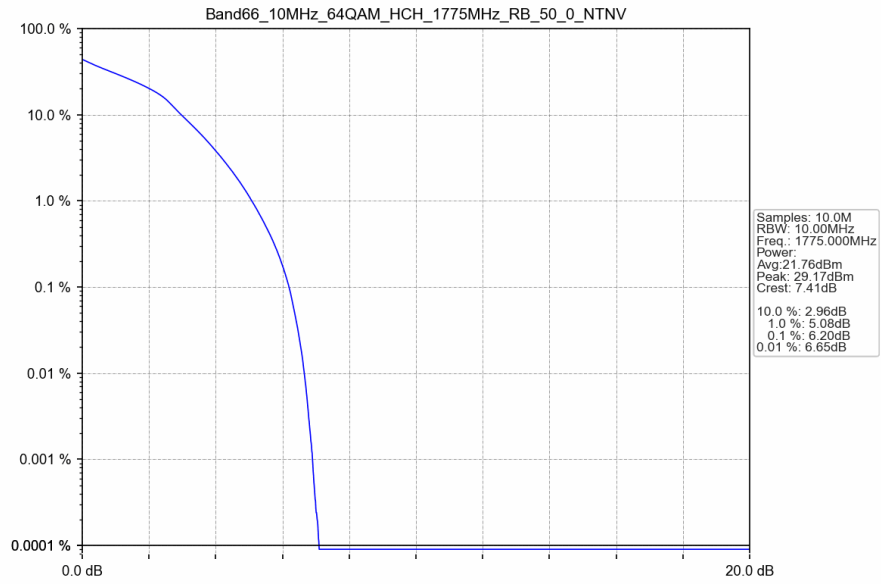
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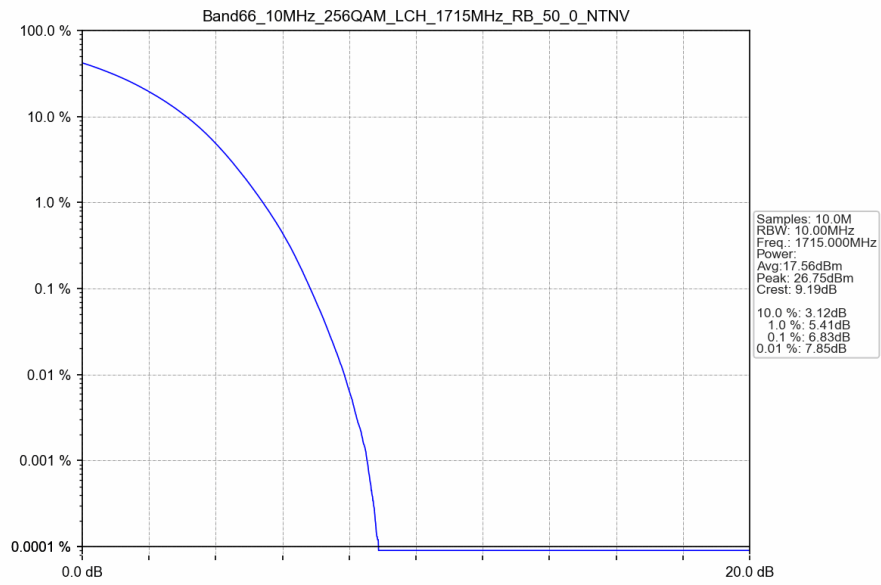
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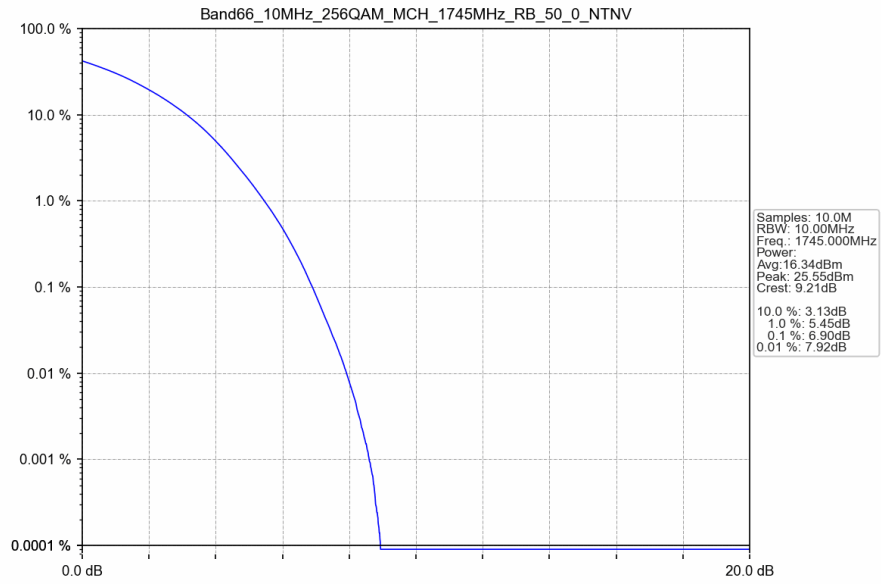
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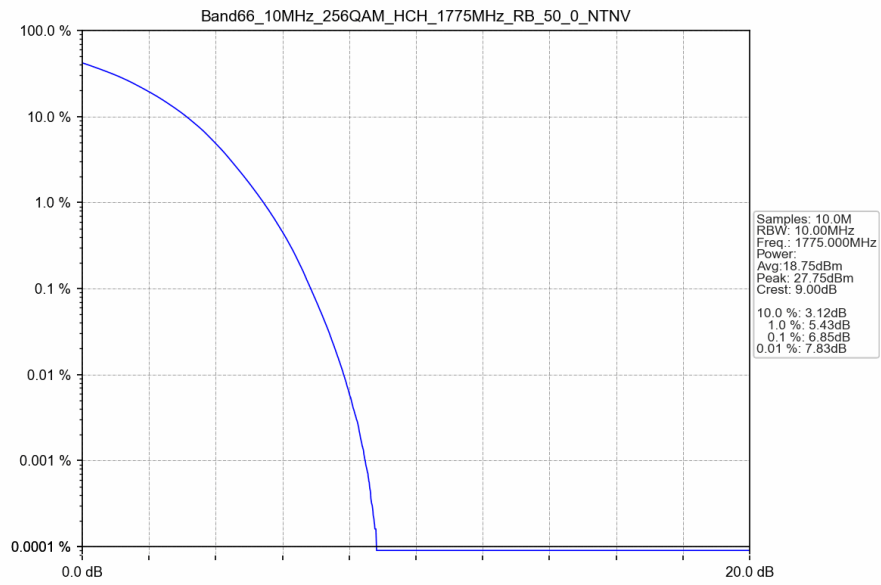
Band66 10MHz 256QAM LCH 1715MHz RB 50 0 NTNV



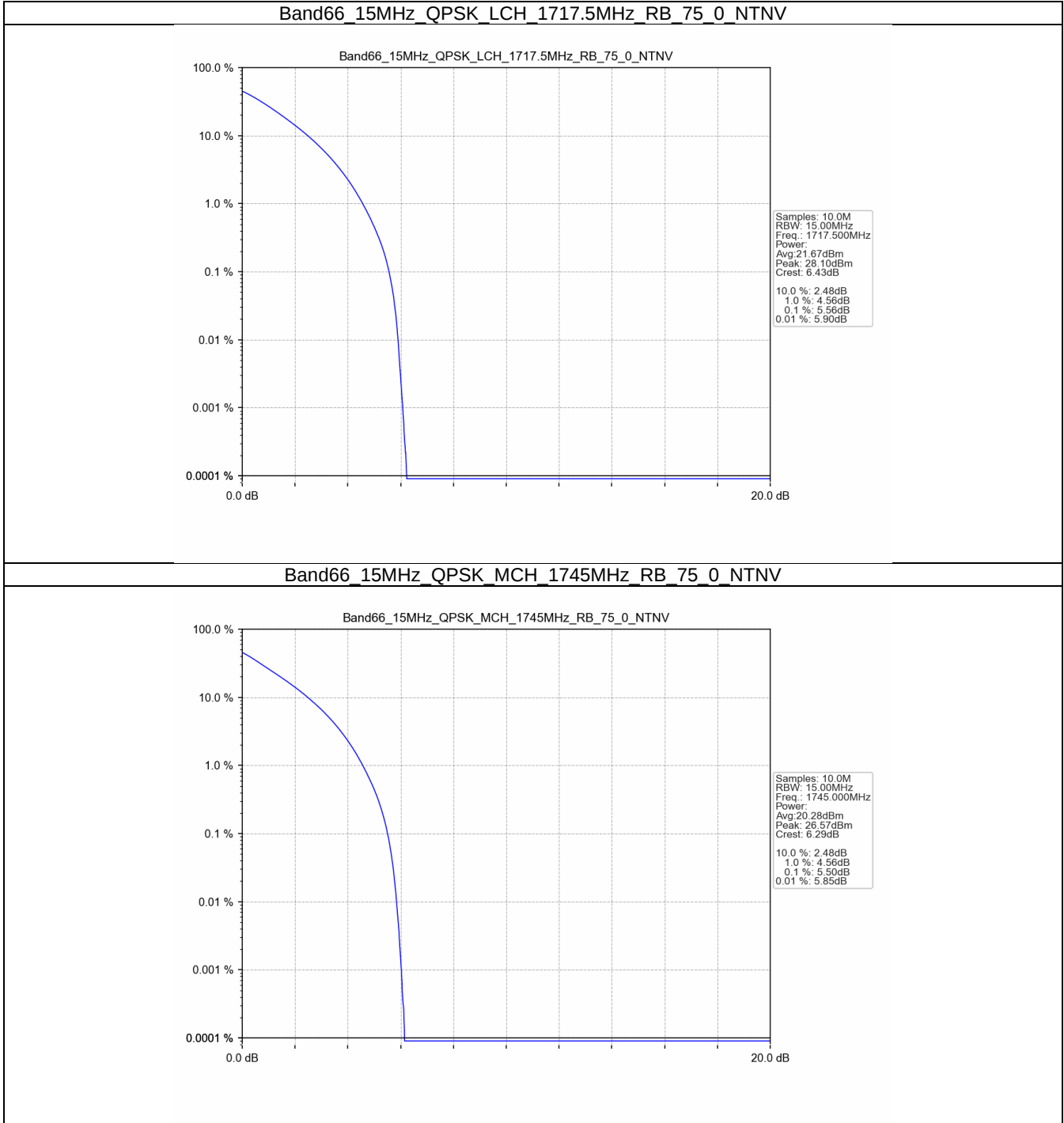
Band66_10MHz_256QAM_MCH_1745MHz_RB_50_0_NTNV



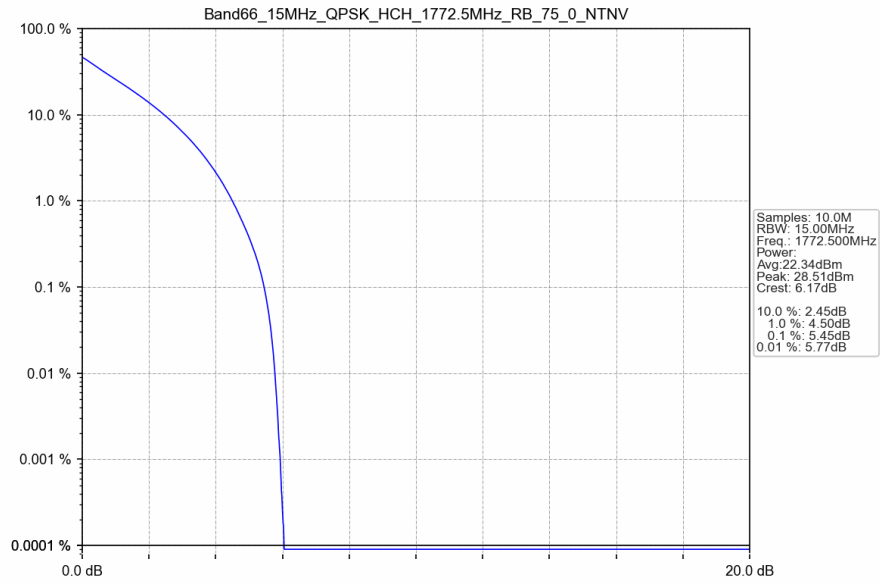
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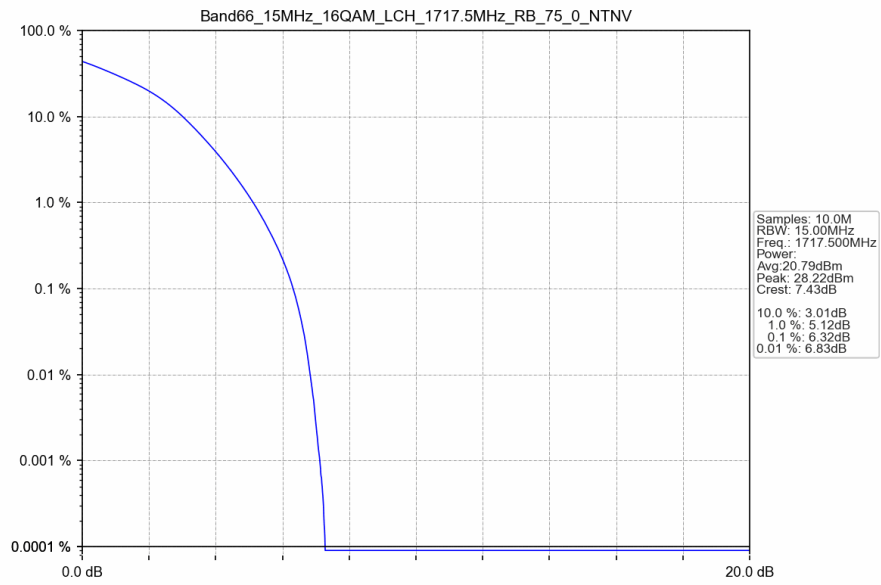
4.2.5 B66_15MHz



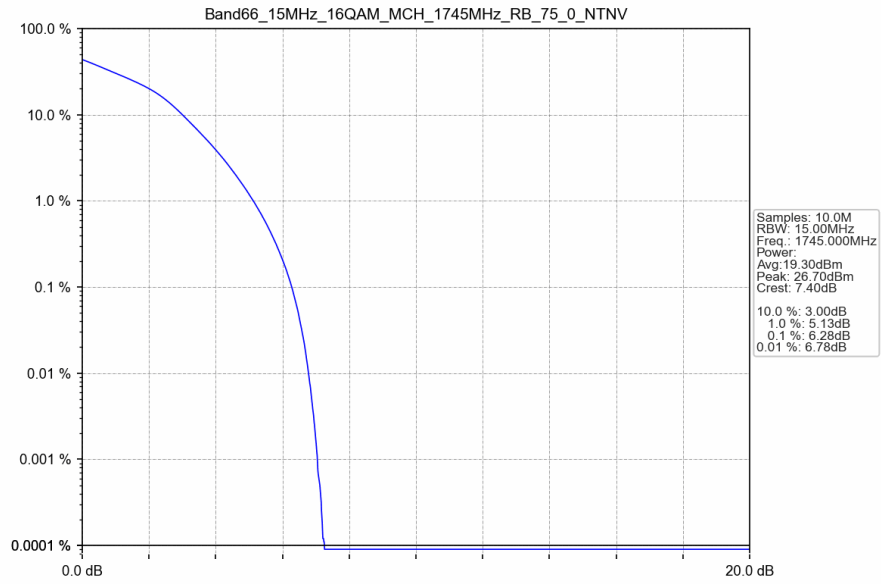
Band66_15MHz_QPSK_HCH_1772.5MHz_RB_75_0_NTNV



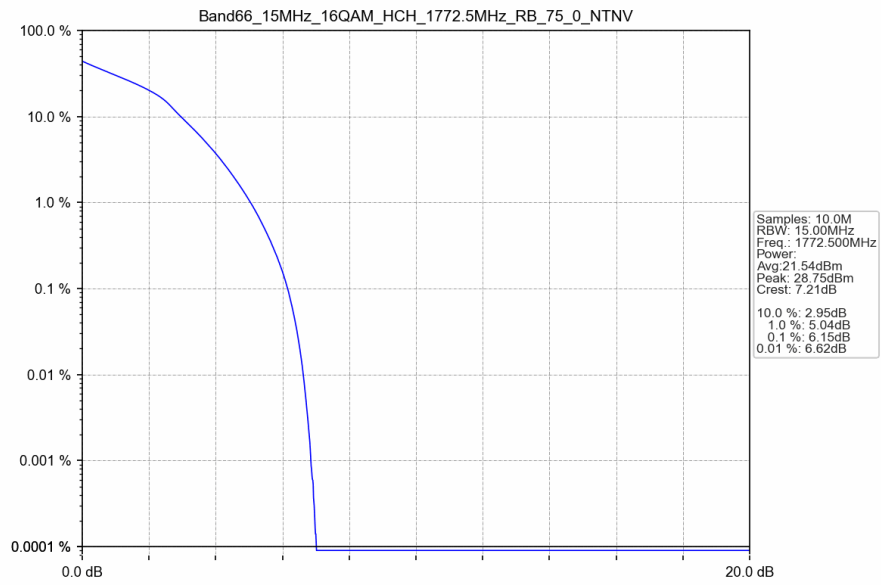
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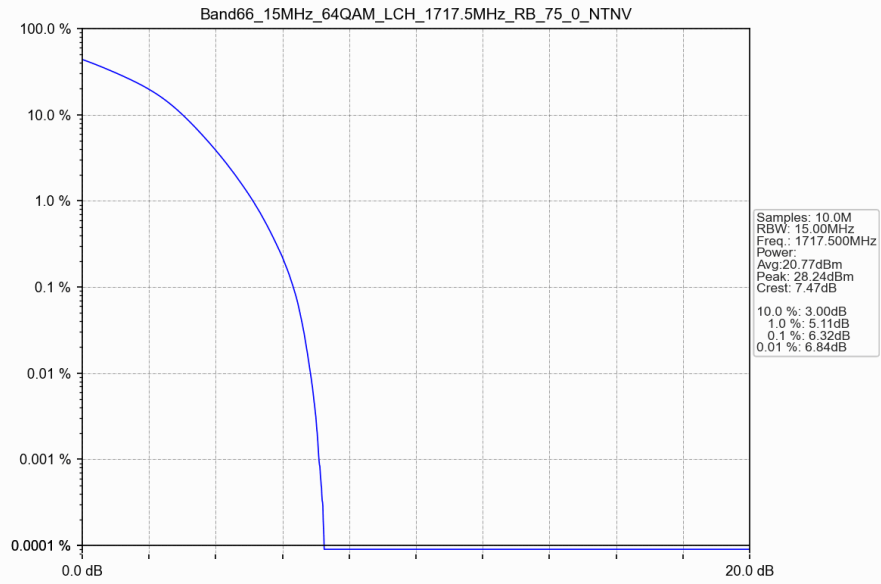
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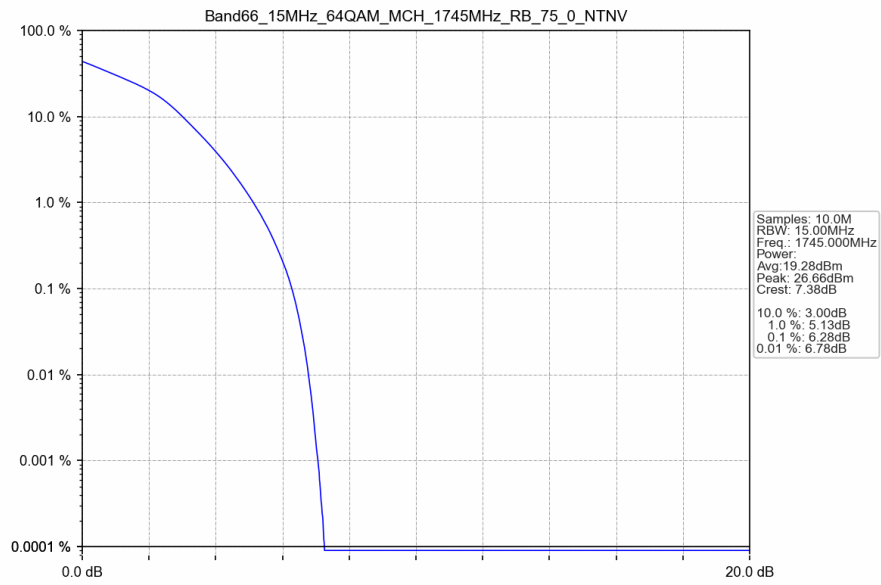
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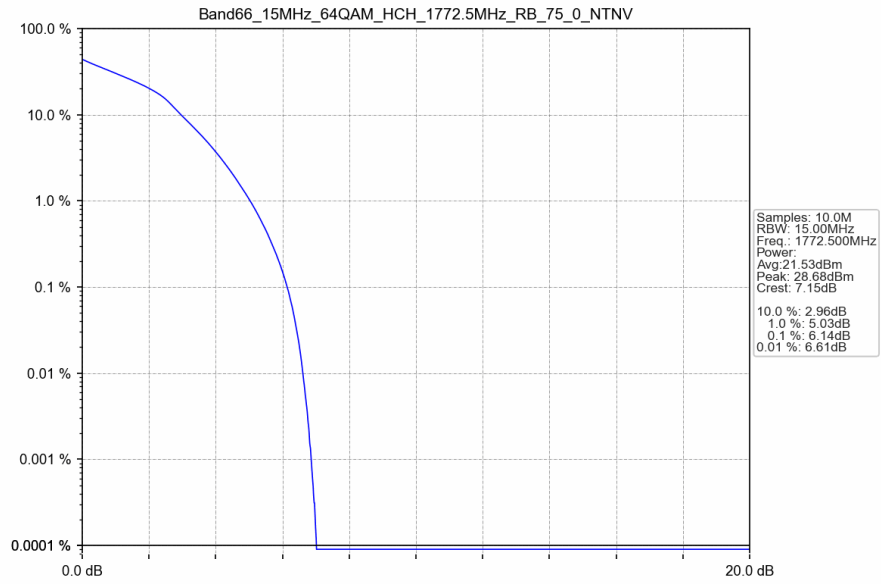
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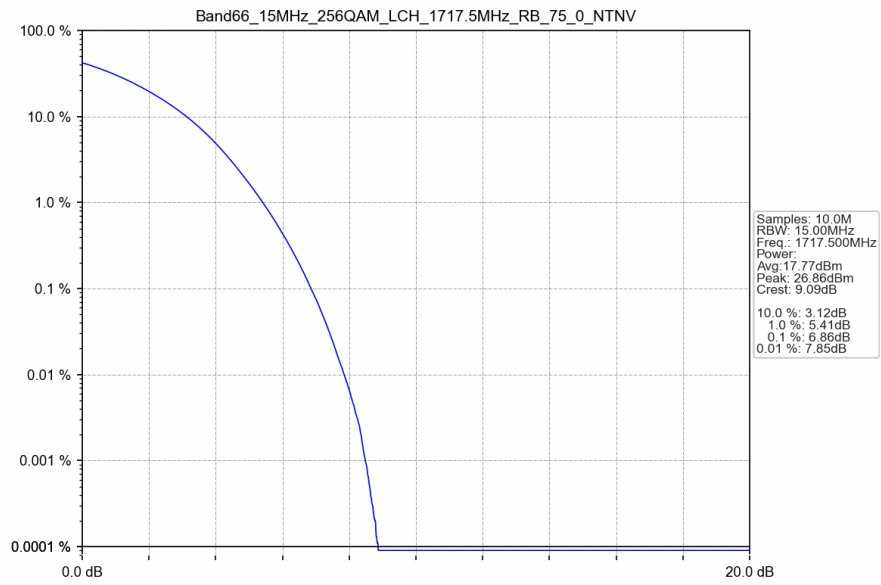
Band66_15MHz_64QAM_MCH_1745MHz_RB_75_0_NTNV



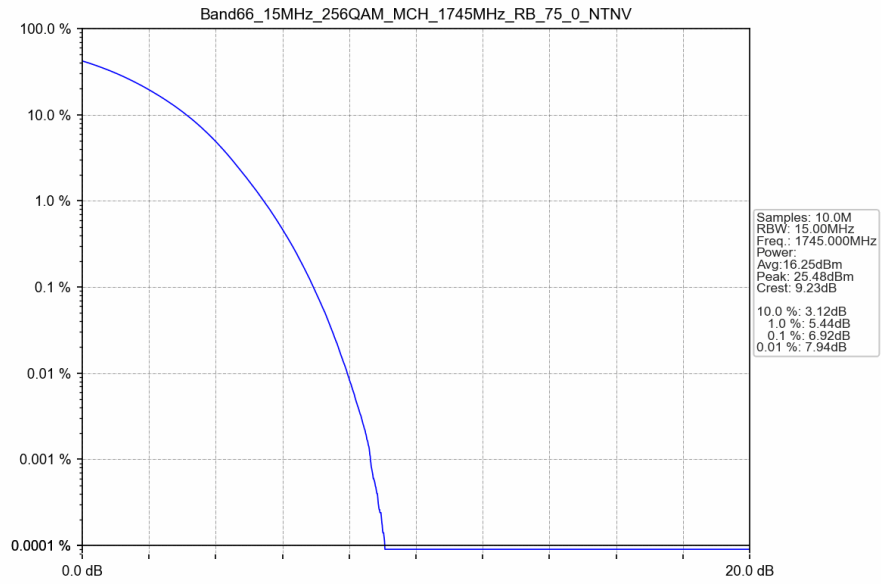
Band66_15MHz_64QAM_HCH_1772.5MHz_RB_75_0_NTNV



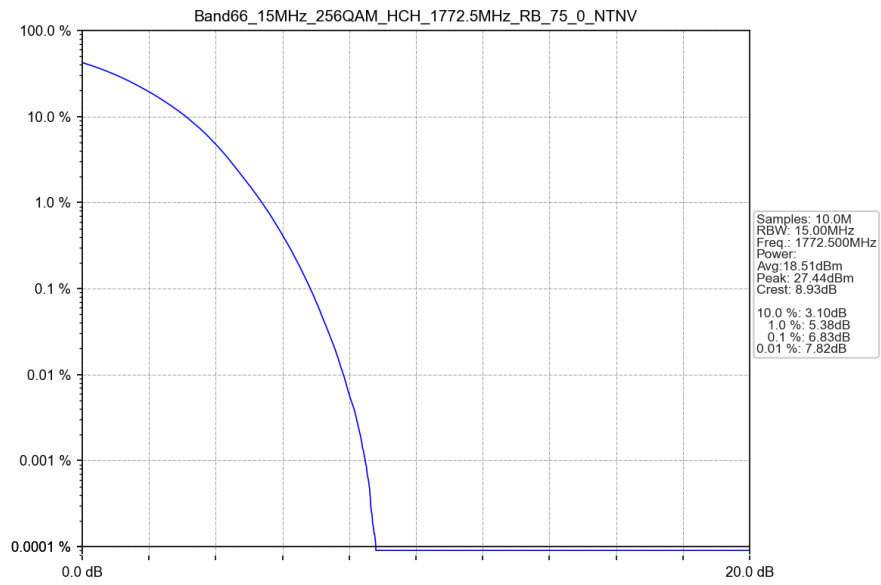
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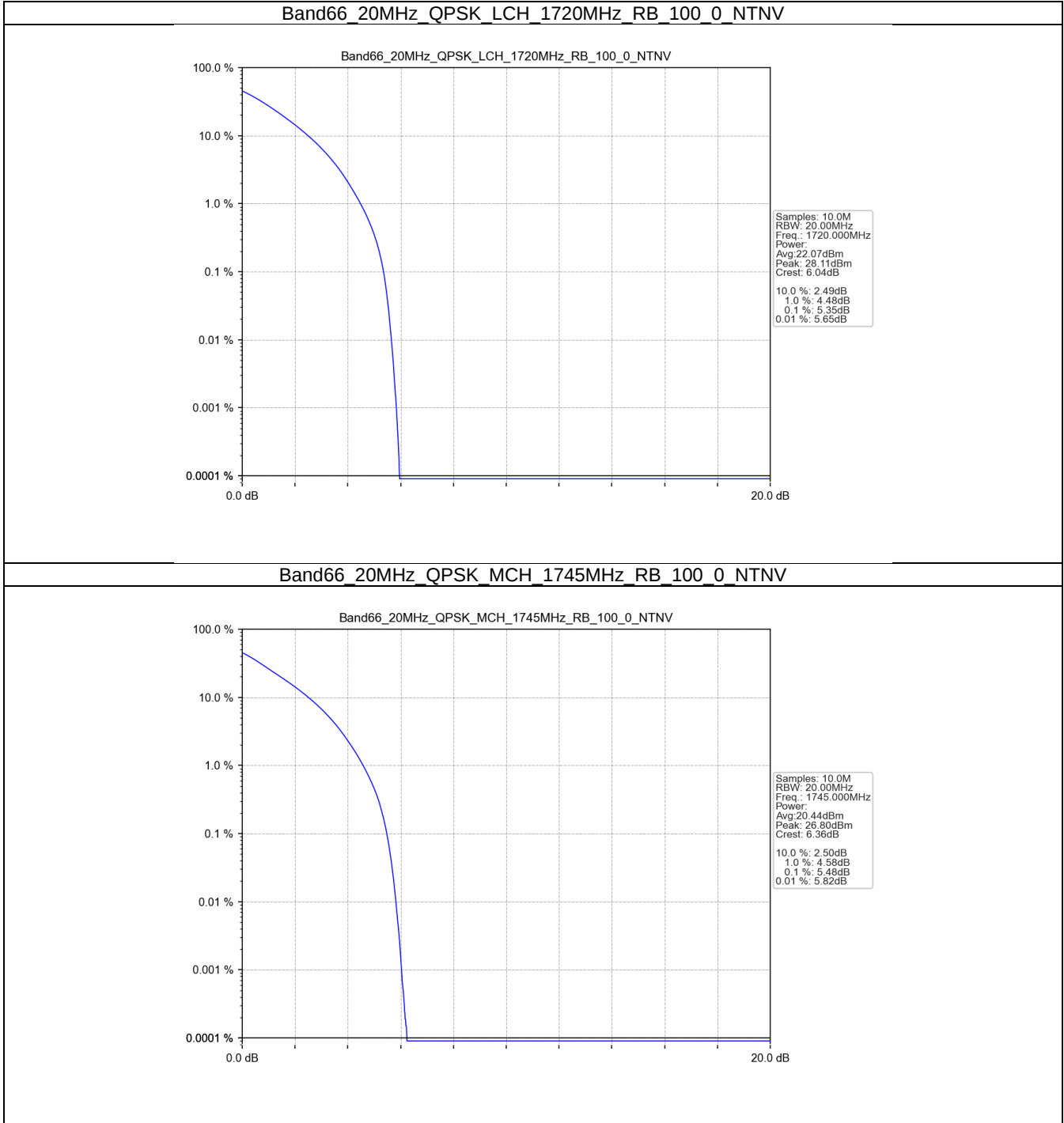
Band66_15MHz_256QAM_MCH_1745MHz_RB_75_0_NTNV



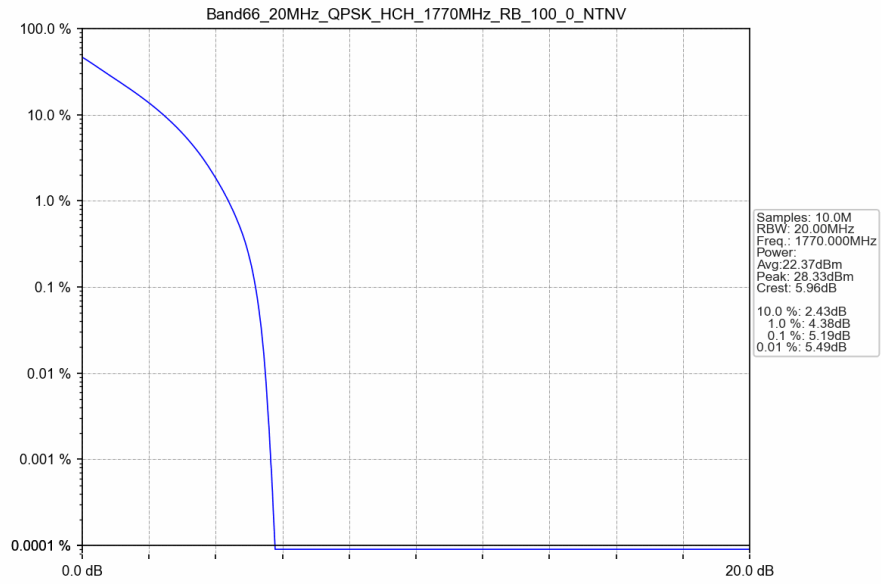
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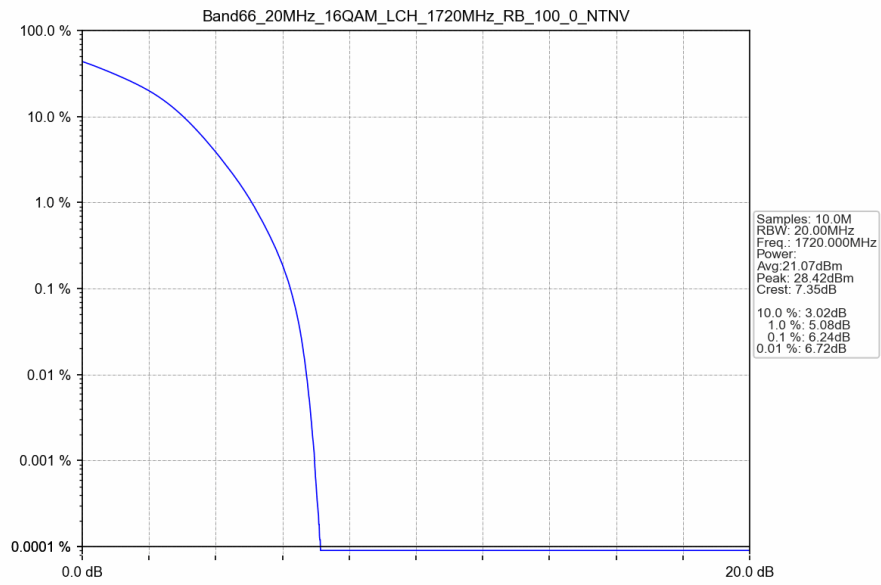
4.2.6 B66_20MHz



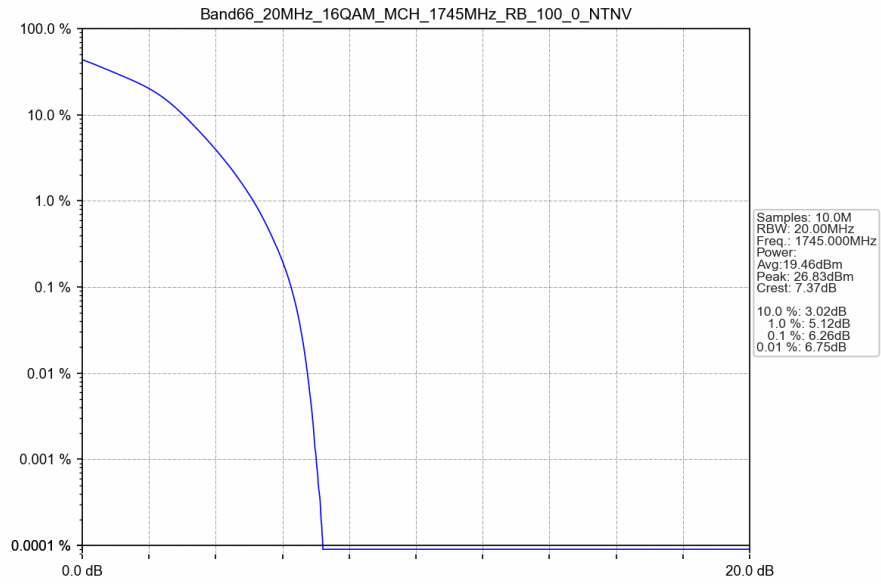
Band66 20MHz QPSK HCH 1770MHz RB 100 0 NTNV



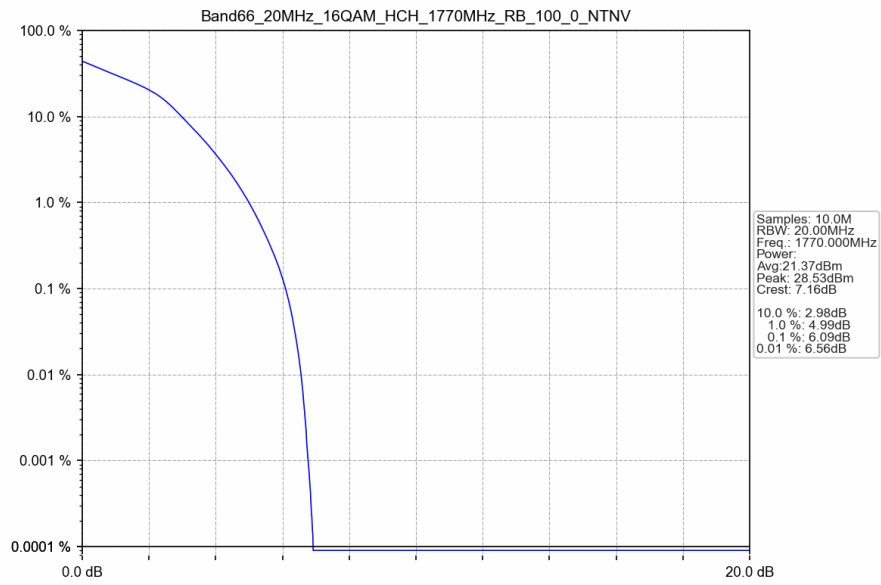
Band66 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



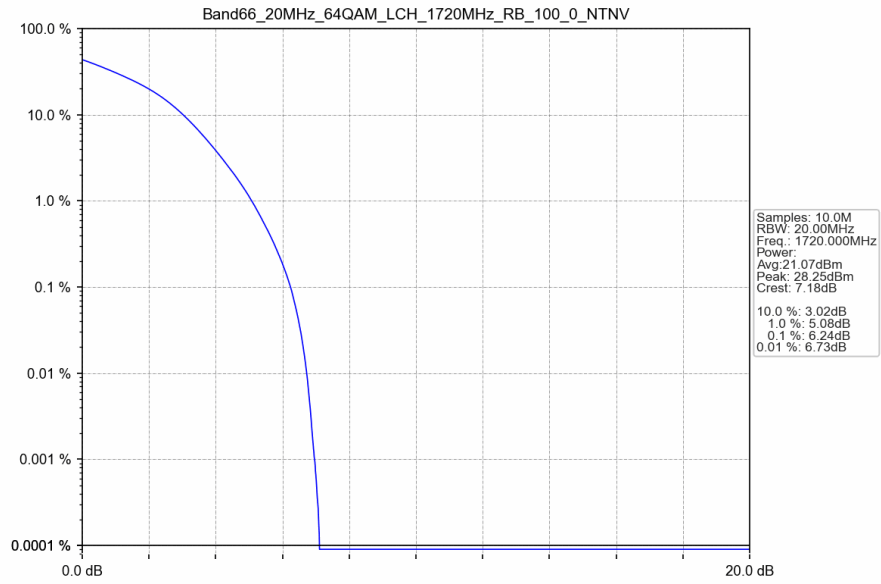
Band66_20MHz_16QAM_MCH_1745MHz_RB_100_0_NTNV



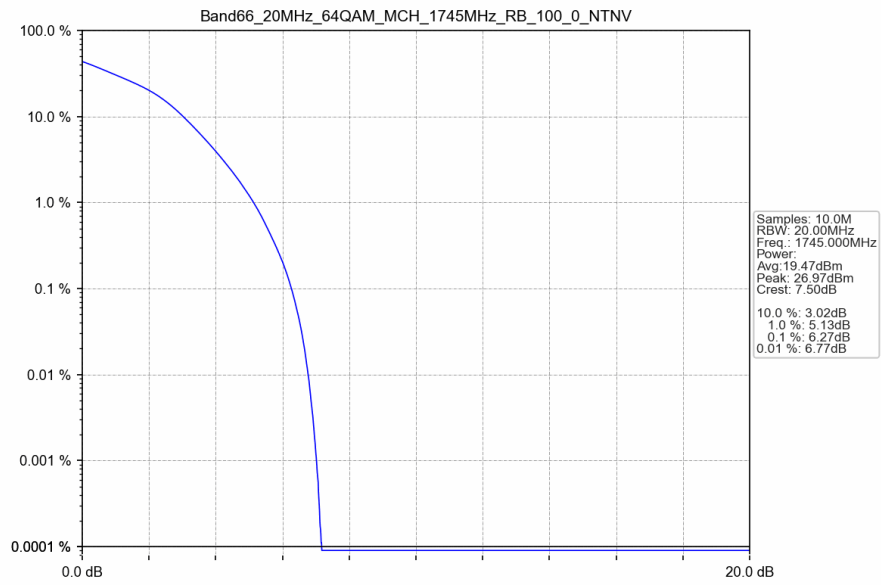
Band66_20MHz_16QAM_HCH_1770MHz_RB_100_0_NTNV



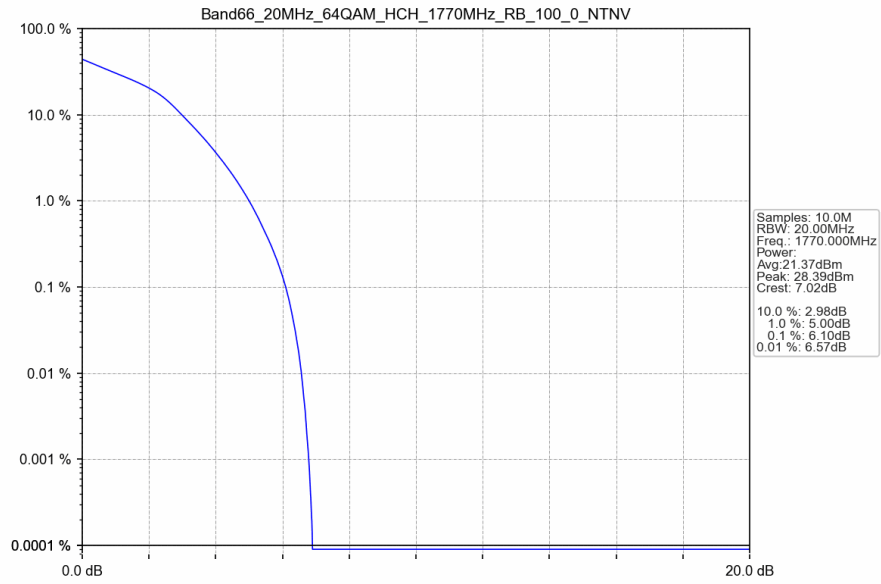
Band66_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



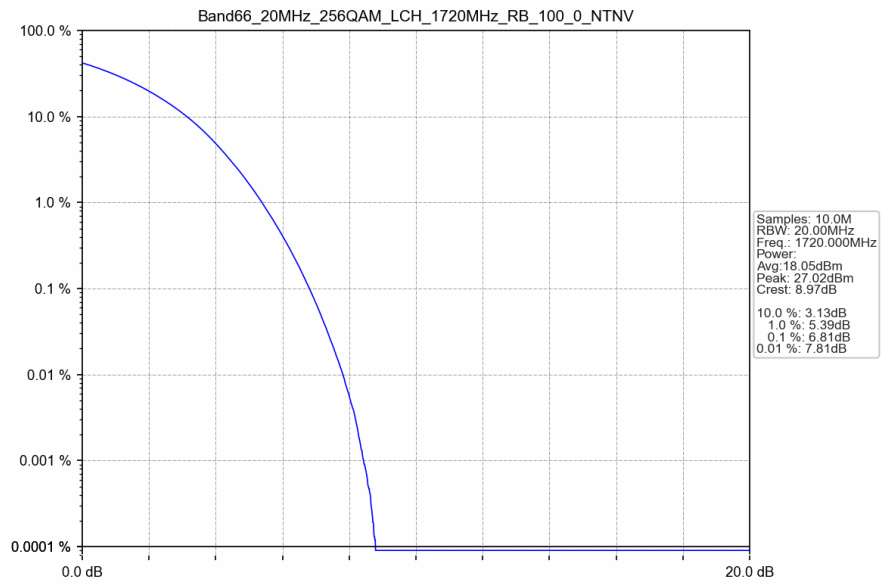
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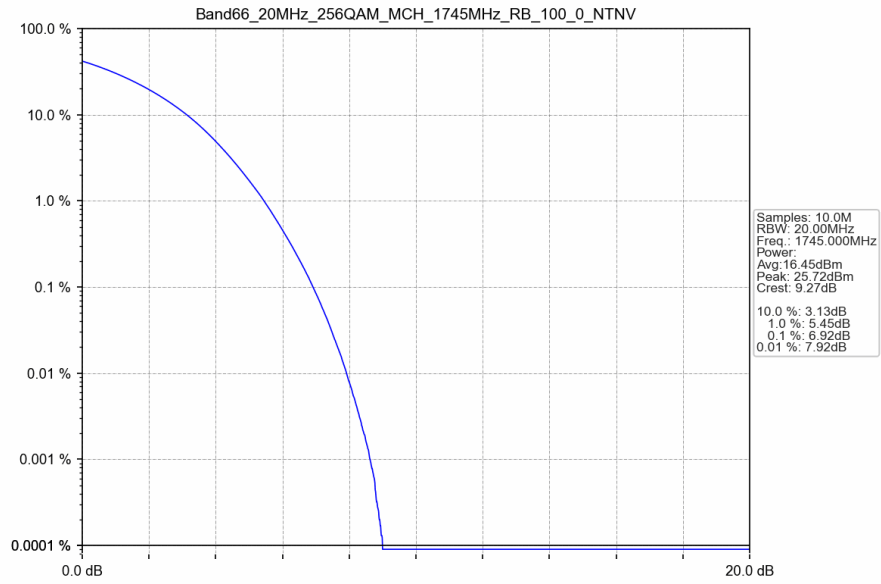
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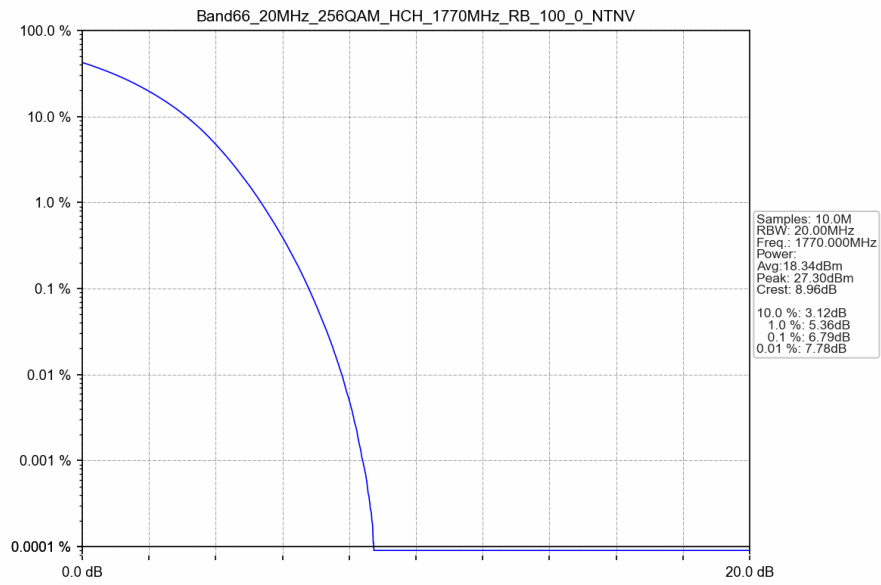
Band66_20MHz_256QAM_LCH_1720MHz_RB_100_0_NTNV



Band66 20MHz 256QAM MCH 1745MHz RB 100 0 NTN



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



5. Spurious Emission

5.1 Test Result

5.1.1 B66_1.4MHz

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	
	5			Refer To Test Graph		Pass
	6		0	Refer To Test Graph		Pass

5.1.2 B66_3MHz

Band: 66 / Bandwidth: 3MHz / NTVN						
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

5.1.3 B66_5MHz

Band: 66 / Bandwidth: 5MHz / NTVN						
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

5.1.4 B66_10MHz

Band: 66 / Bandwidth: 10MHz / NTNV						
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

5.1.5 B66_15MHz

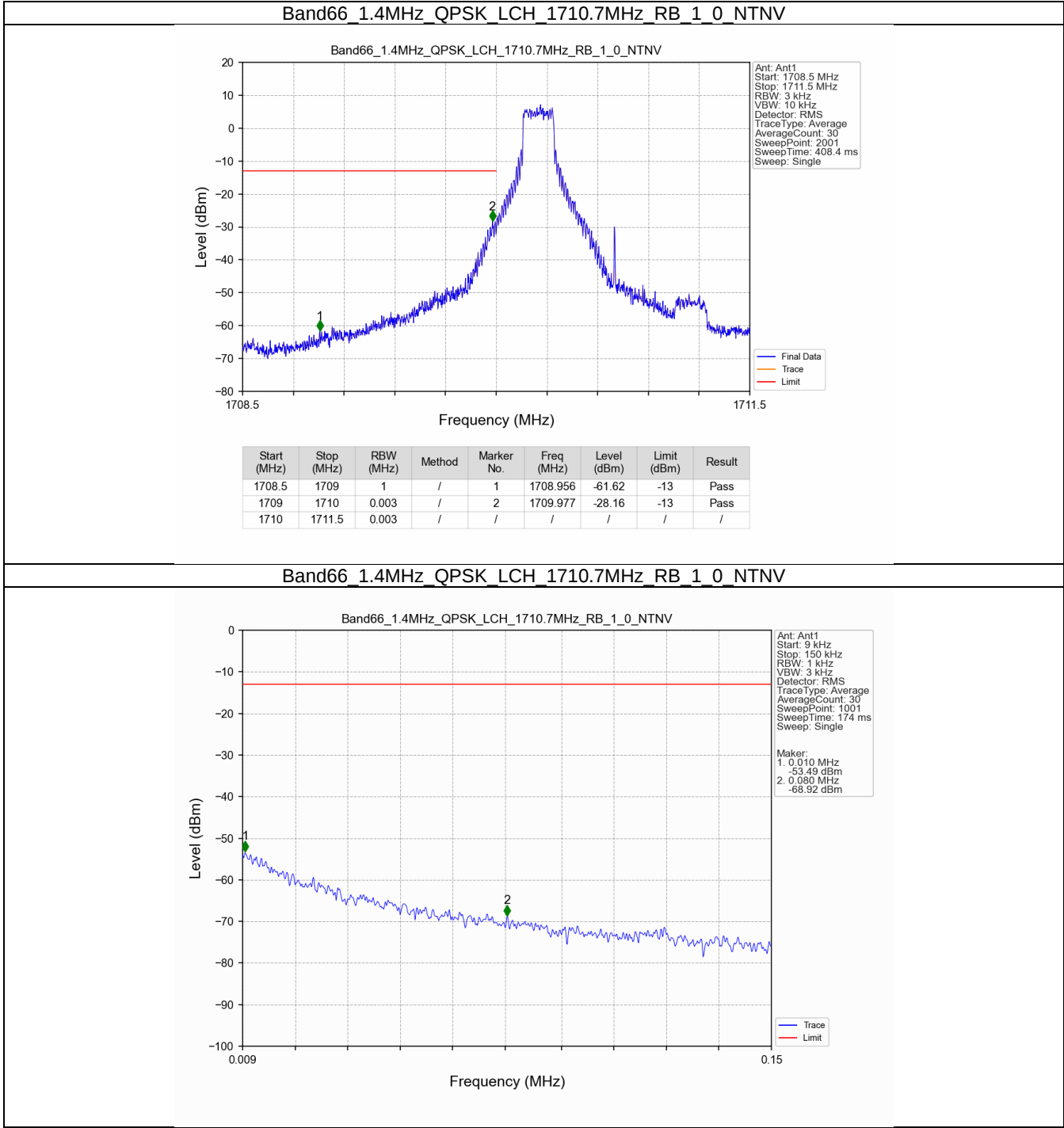
Band: 66 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
	1772.5	1	0	Refer To Test Graph		Pass
			74	Refer To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

5.1.6 B66_20MHz

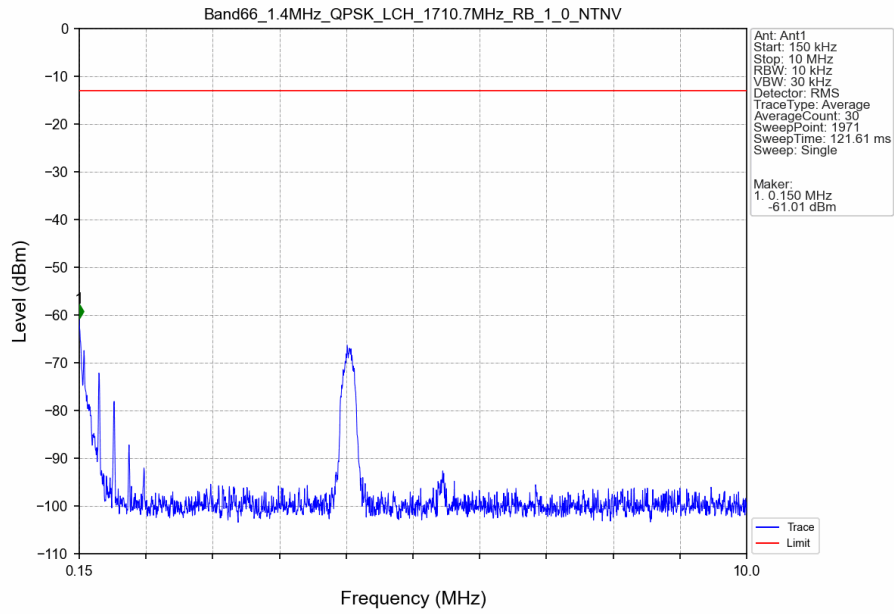
Band: 66 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
	1770	1	0	Refer To Test Graph		Pass
			99	Refer To Test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

5.2 Test Graph

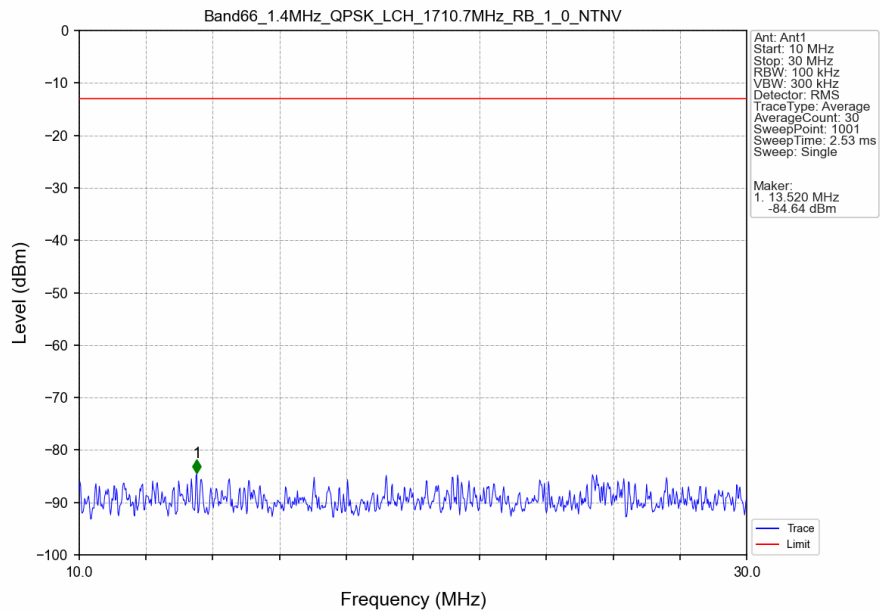
5.2.1 B66_1.4MHz



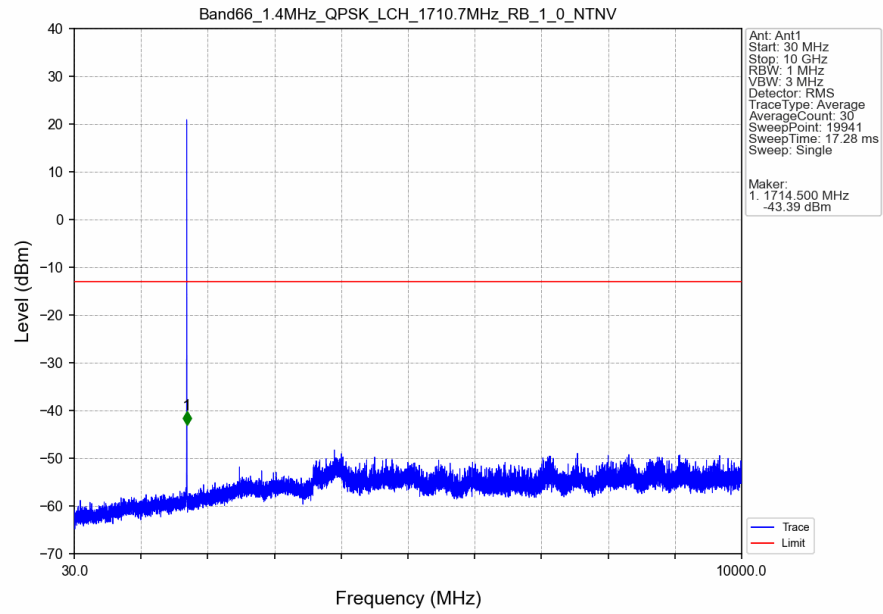
Band66 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTV



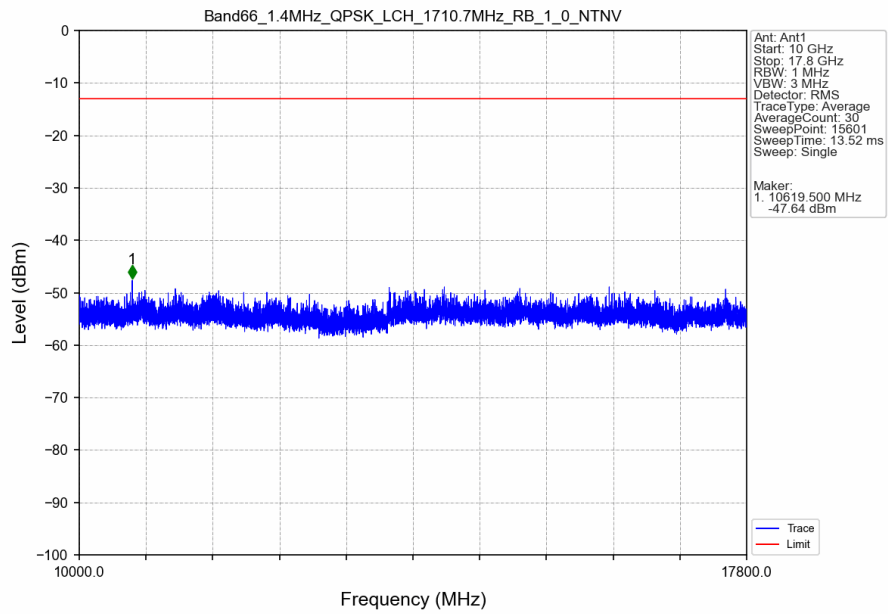
Band66 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTV



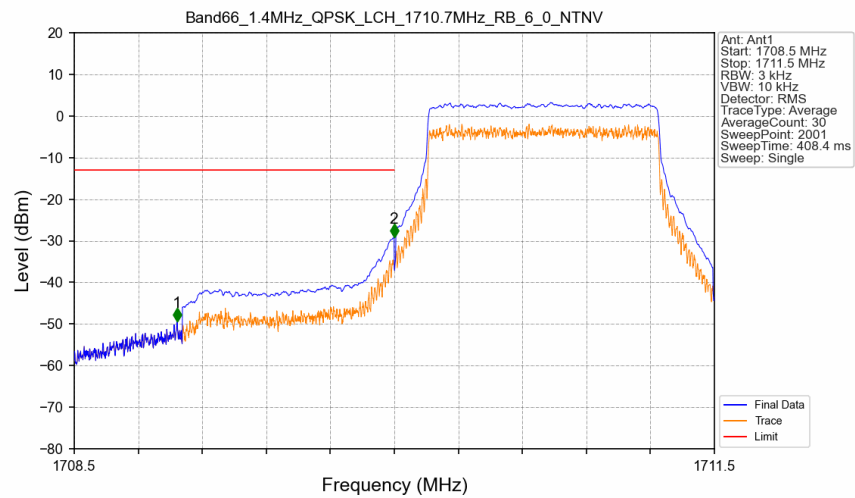
Band66 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTNV



Band66 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTNV

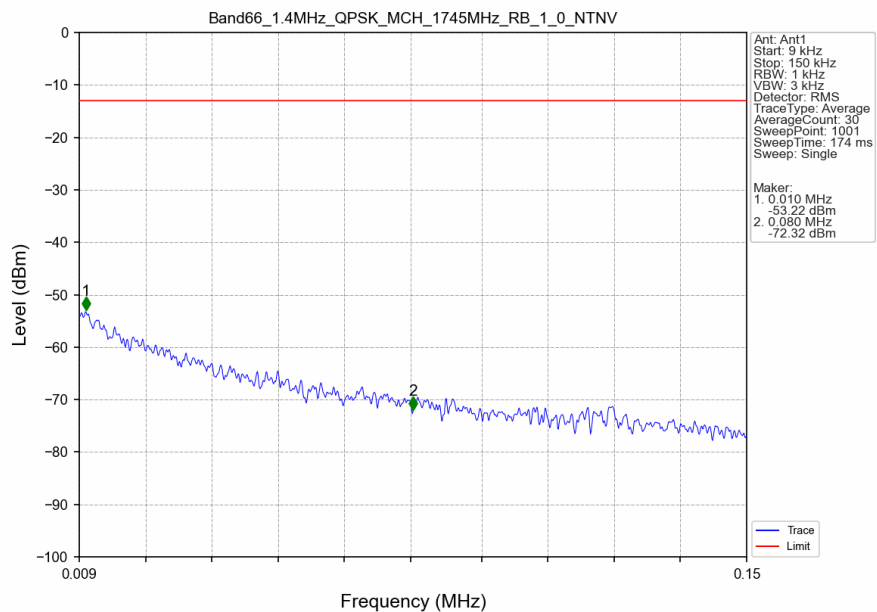


Band66 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTNV

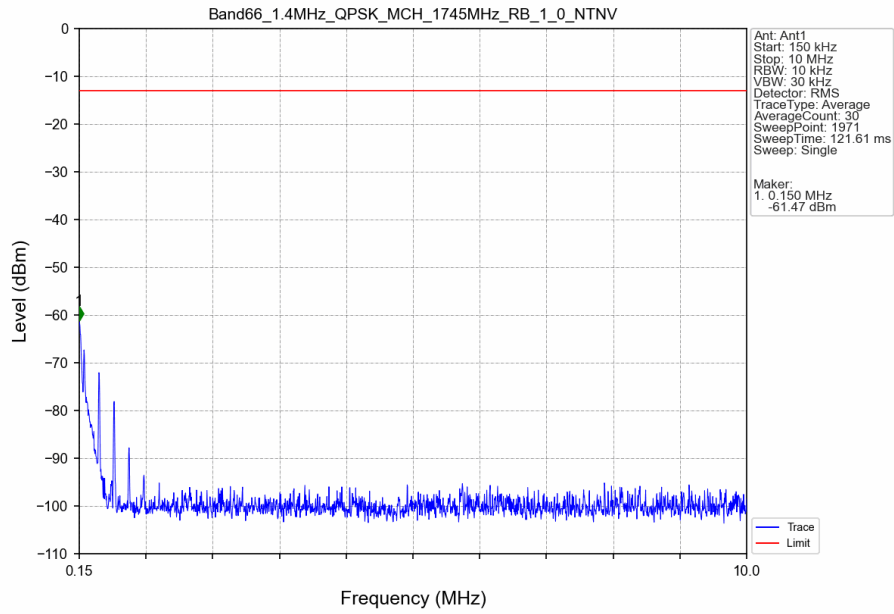


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.982	-49.27	-13	Pass
1709	1710	0.014	CHP	2	1709.998	-29.05	-13	Pass
1710	1711.5	0.014	CHP	/	/	/	/	/

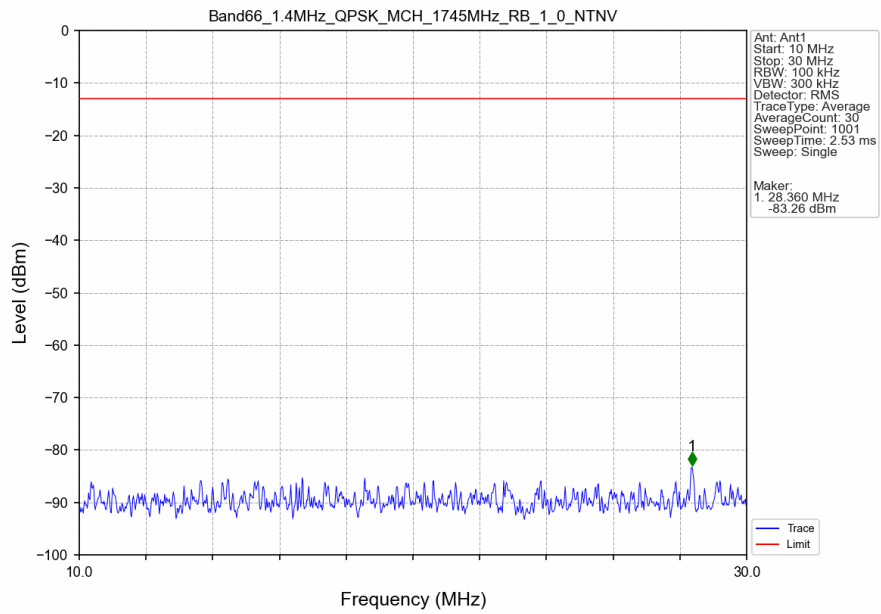
Band66 1.4MHz QPSK MCH 1745MHz RB 1 0 NTNV



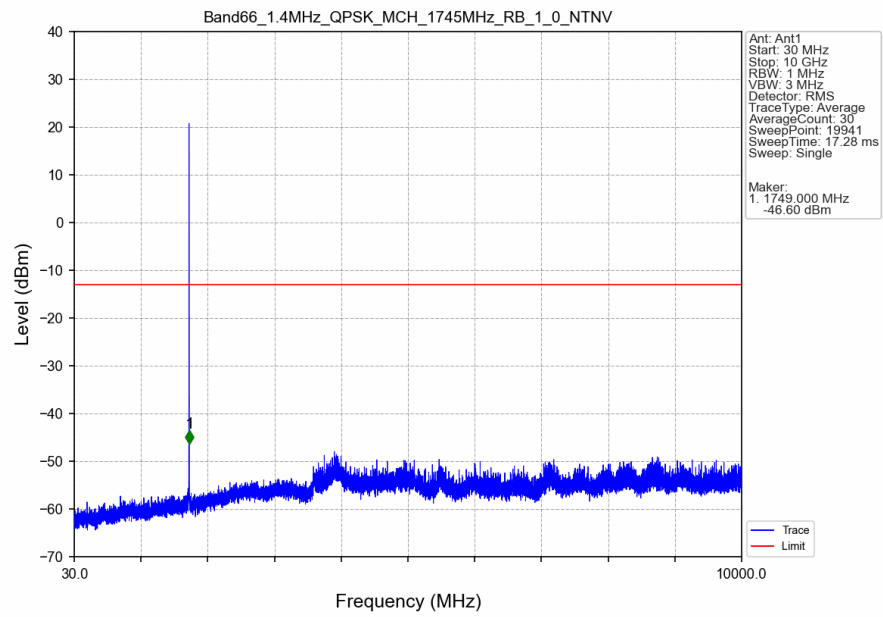
Band66_1.4MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



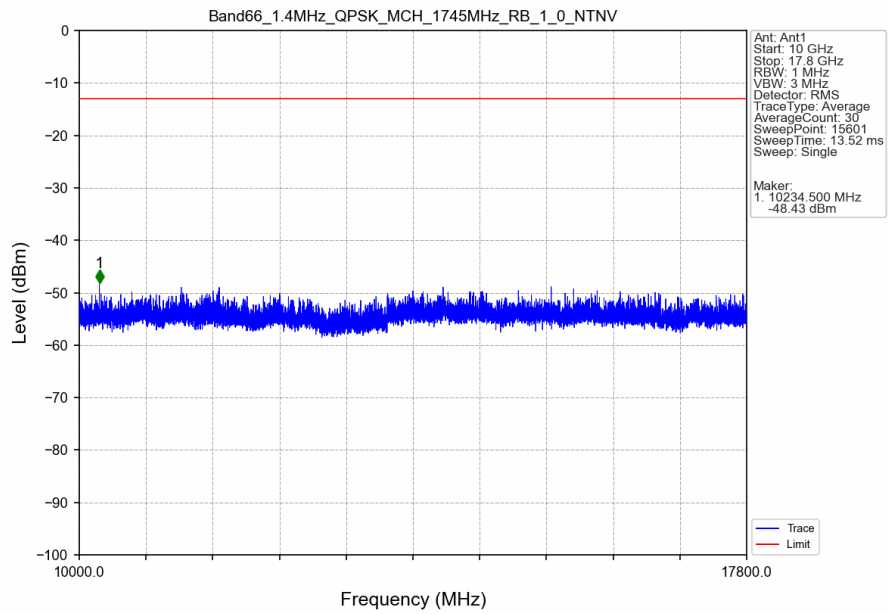
Band66_1.4MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



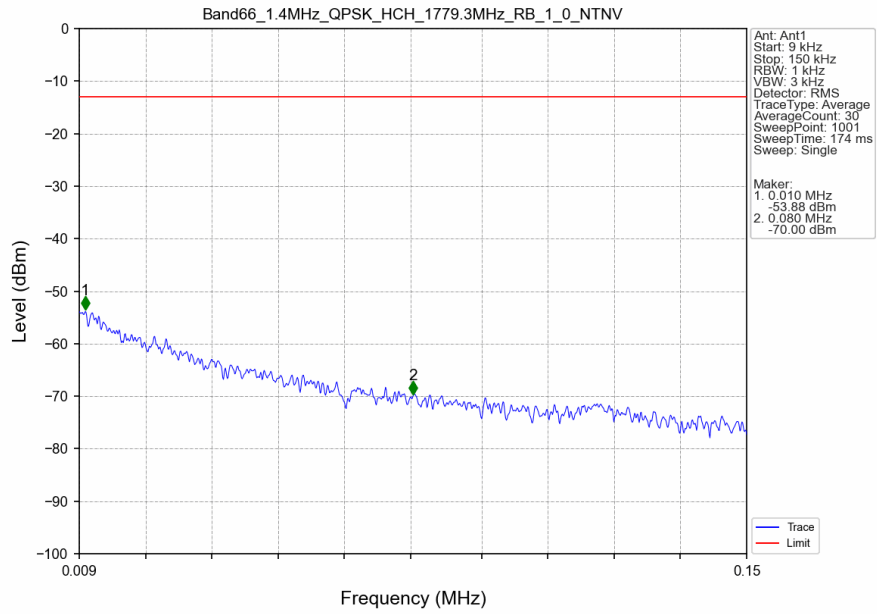
Band66_1.4MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



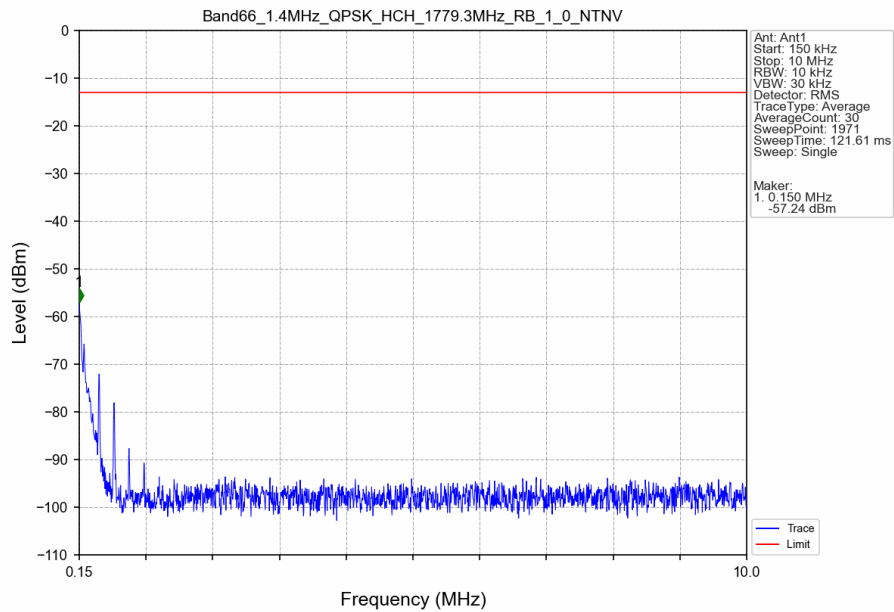
Band66_1.4MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



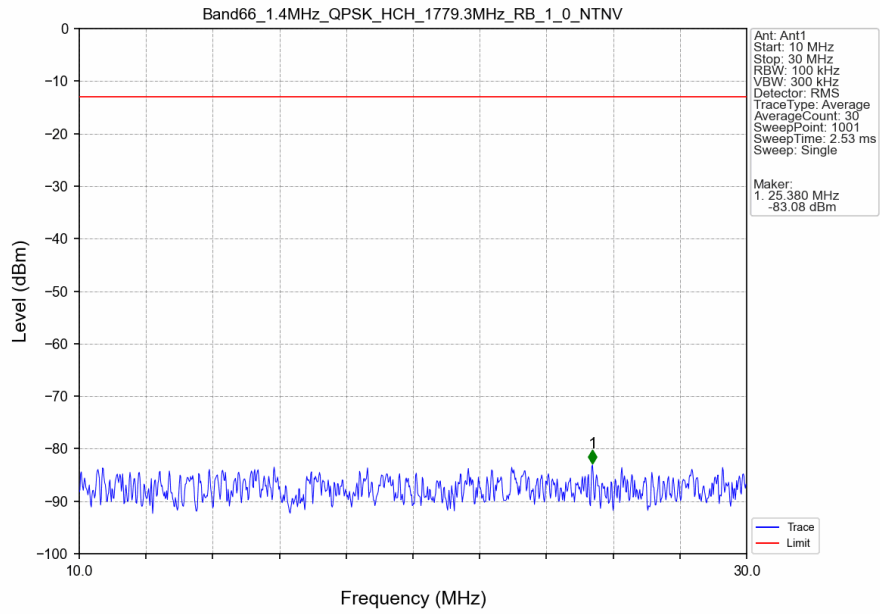
Band66 1.4MHz QPSK HCH 1779.3MHz RB 1 0 NTNV



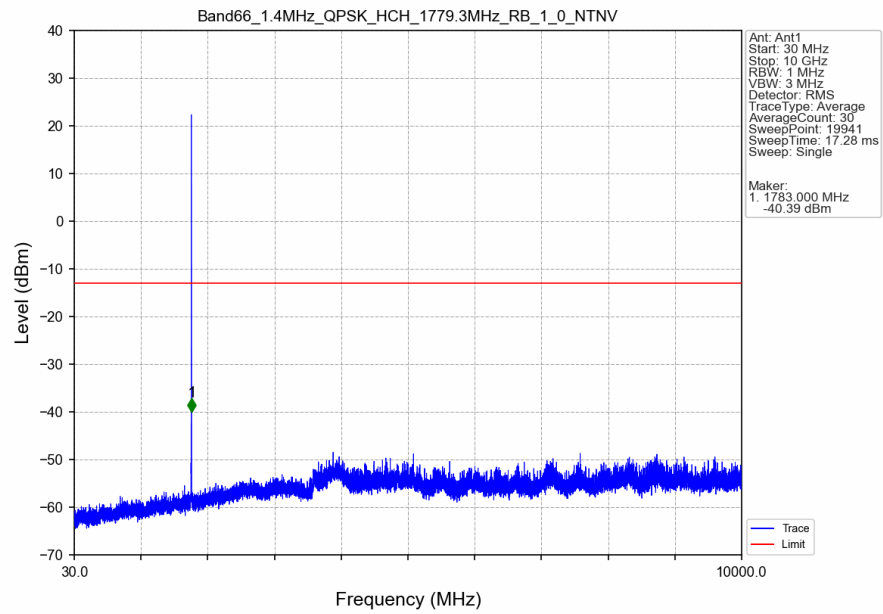
Band66 1.4MHz QPSK HCH 1779.3MHz RB 1 0 NTNV



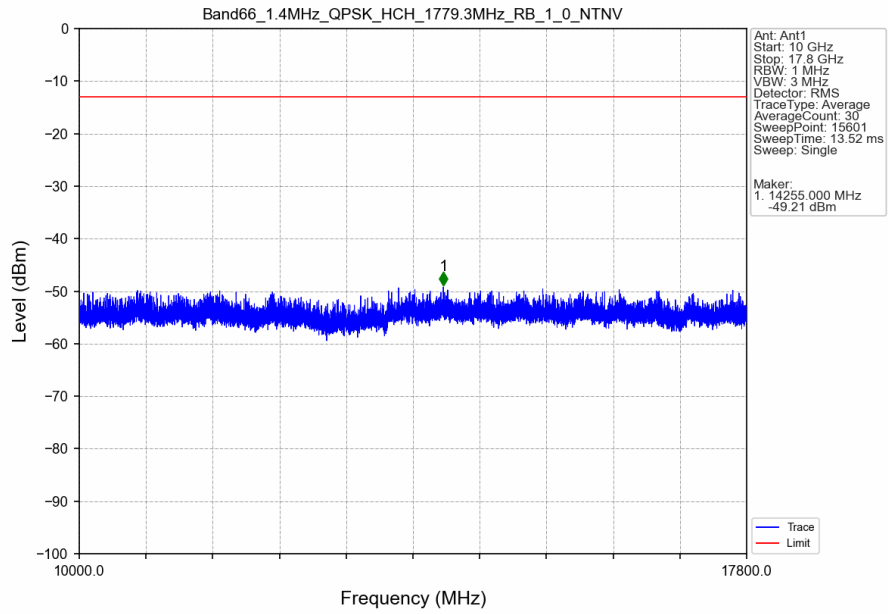
Band66 1.4MHz QPSK HCH 1779.3MHz RB 1 0 NTNV



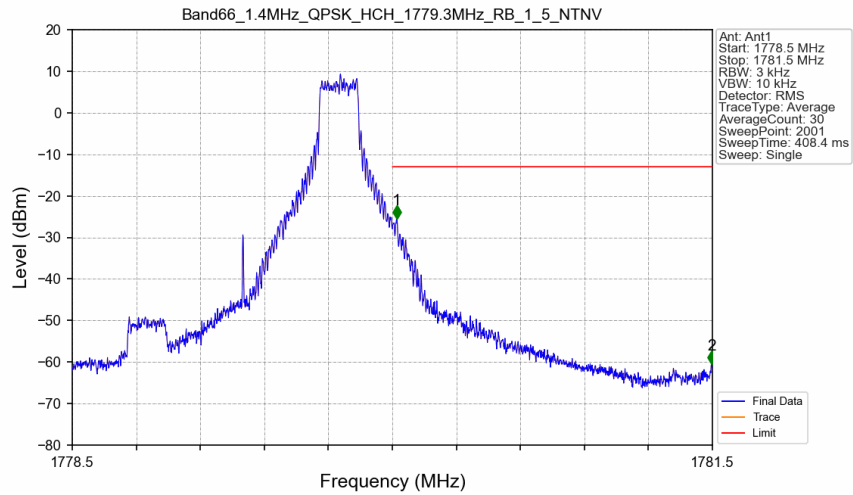
Band66 1.4MHz QPSK HCH 1779.3MHz RB 1 0 NTNV



Band66 1.4MHz QPSK HCH 1779.3MHz RB 1 0 NTN

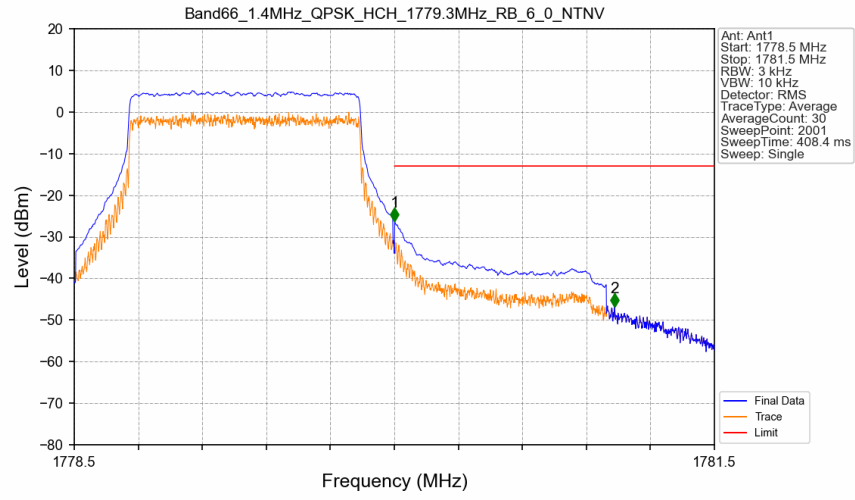


Band66_1.4MHz QPSK HCH 1779.3MHz RB 1 5 NTN



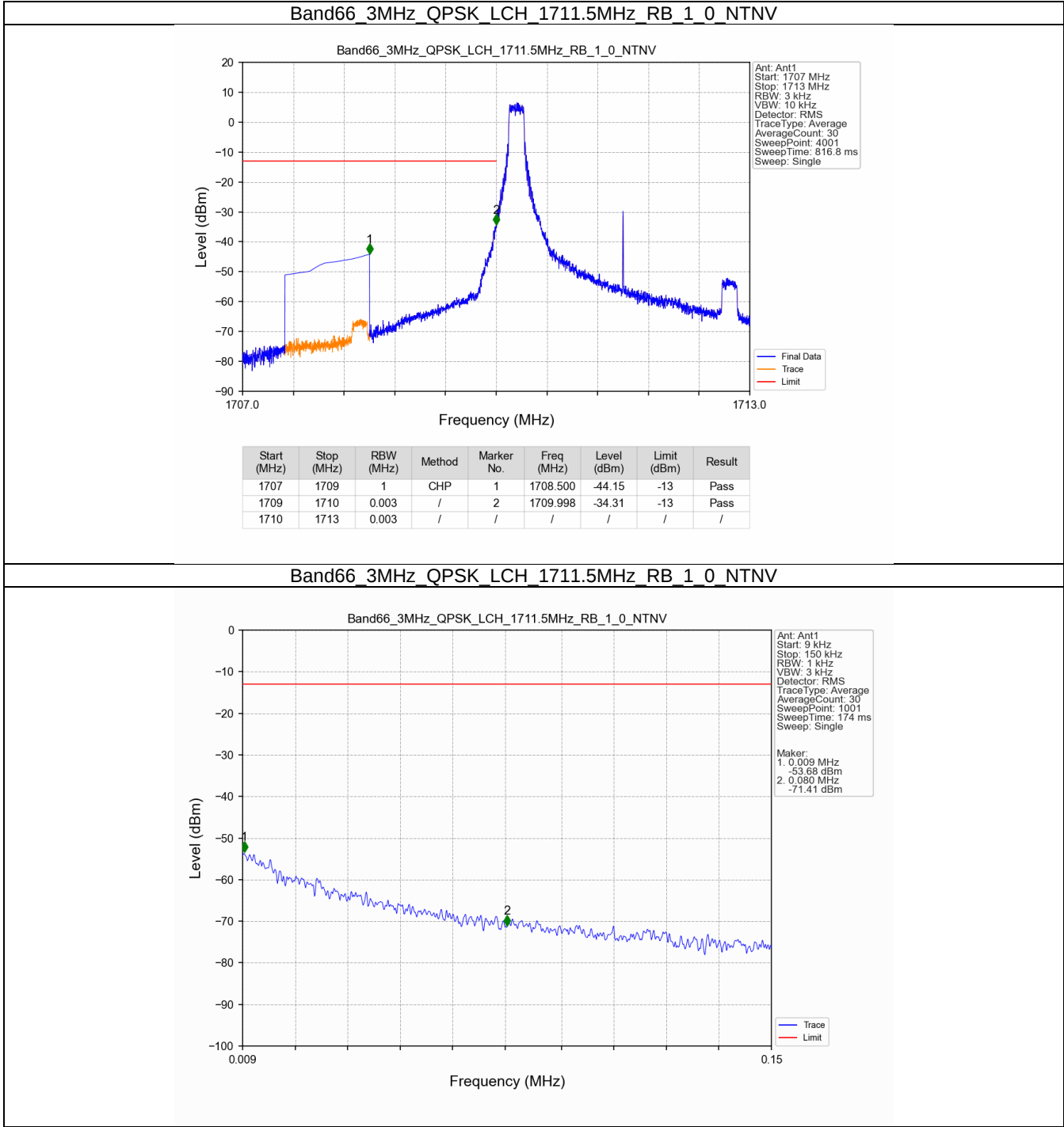
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1778.5	1780	0.003	/	/	/	/	/	/
1780	1781	0.003	/	1	1780.021	-25.41	-13	Pass
1781	1781.5	1	/	2	1781.495	-60.44	-13	Pass

Band66 1.4MHz QPSK HCH 1779.3MHz RB 6 0 NTN

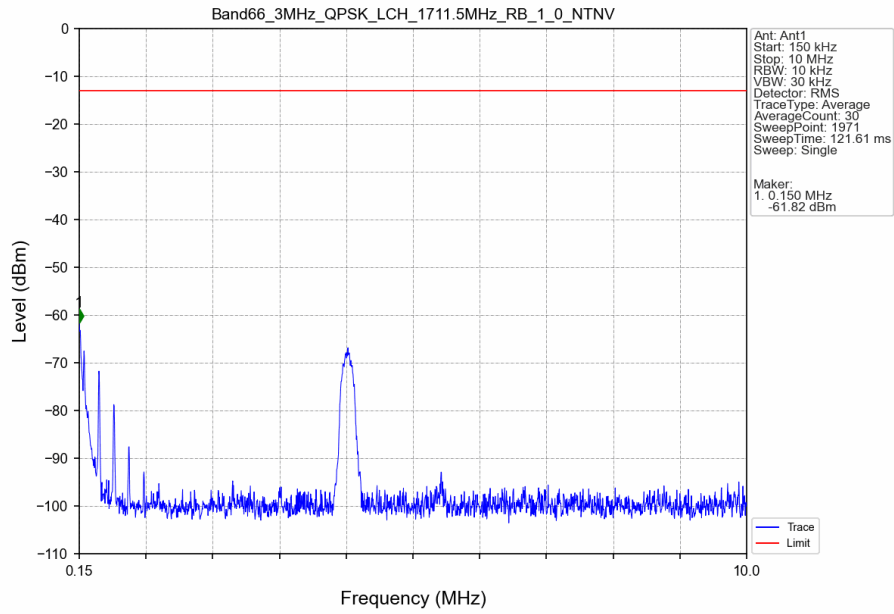


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1778.5	1780	0.014	CHP	/	/	/	/	/
1780	1781	0.014	CHP	1	1780.002	-26.23	-13	Pass
1781	1781.5	1	CHP	2	1781.032	-46.84	-13	Pass

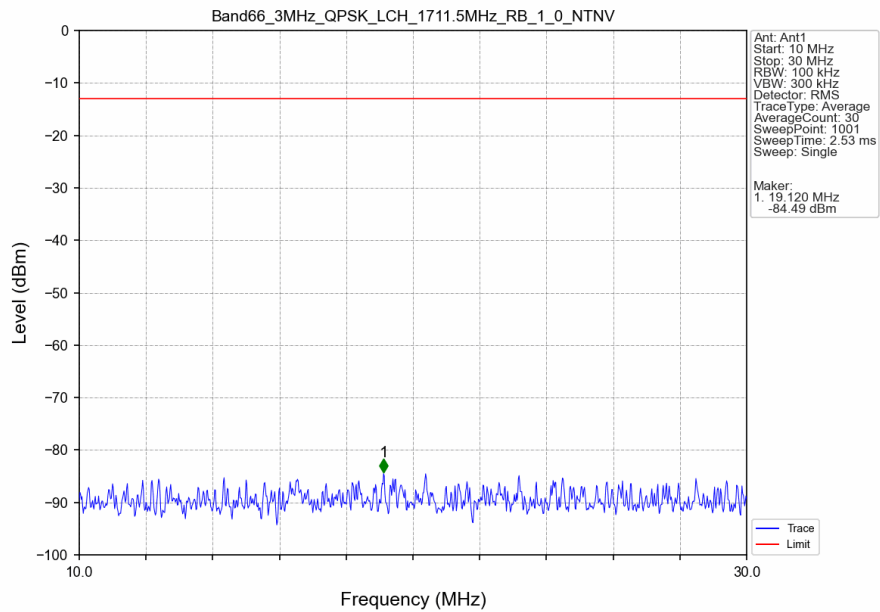
5.2.2 B66_3MHz



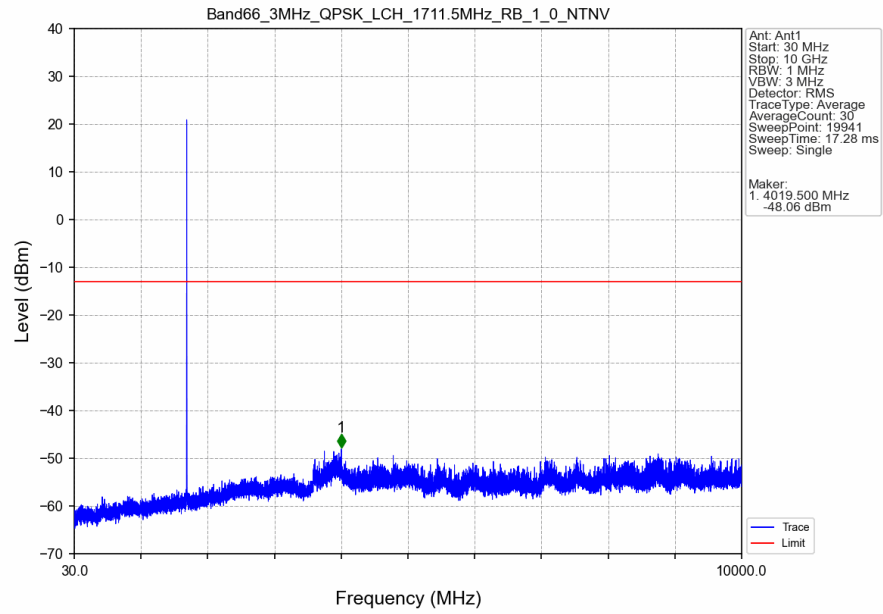
Band66_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



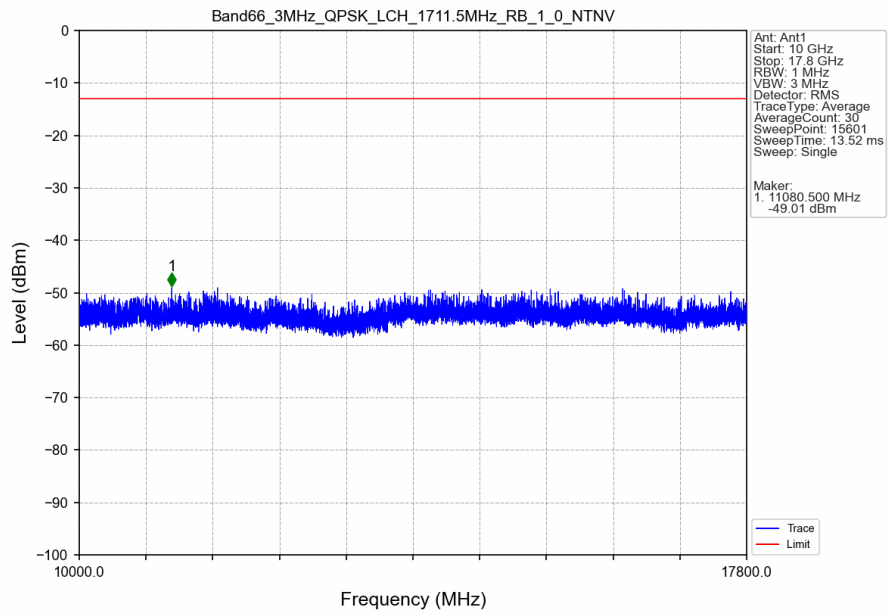
Band66_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



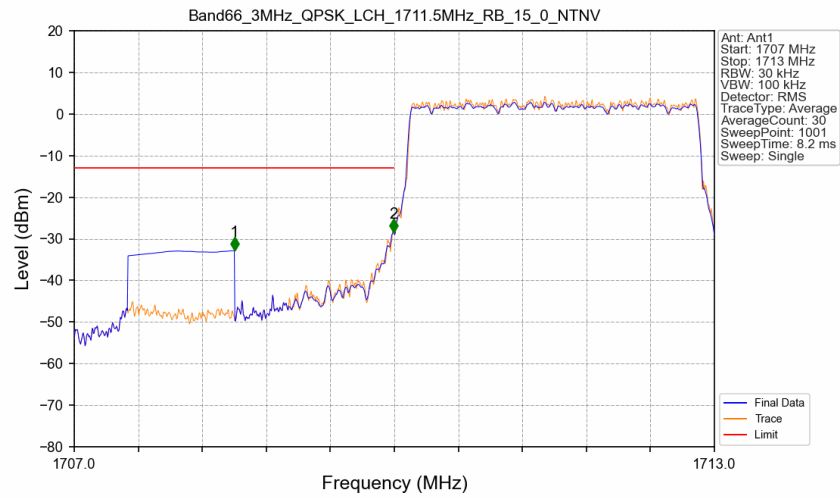
Band66_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



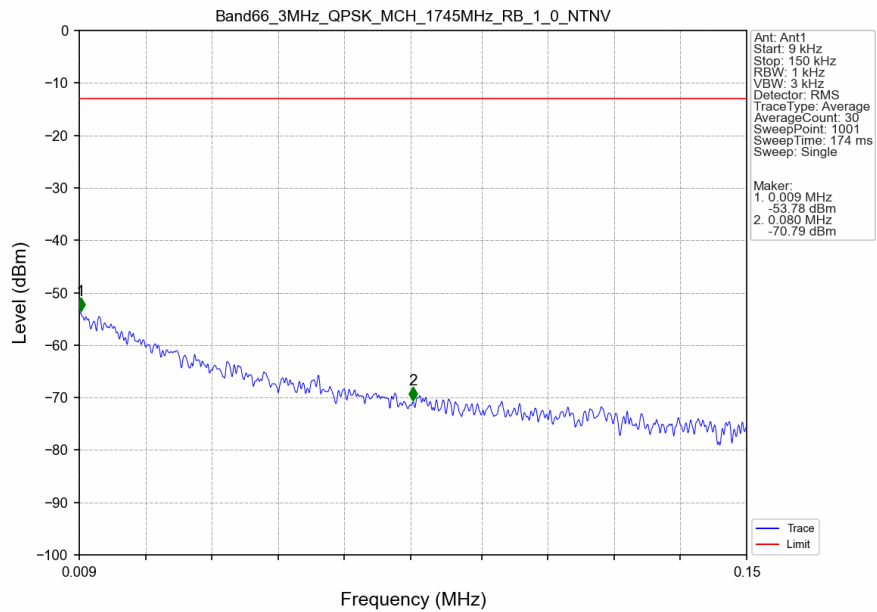
Band66_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



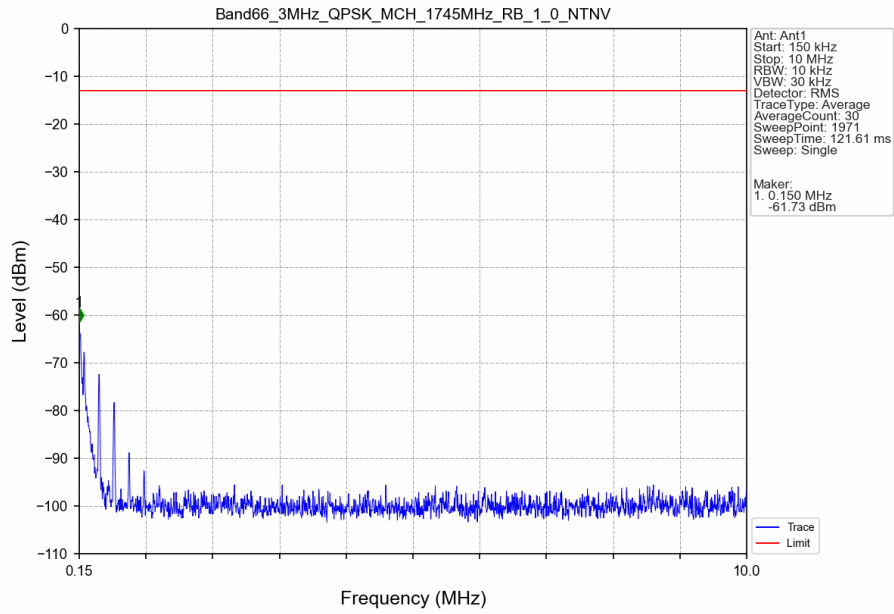
Band66_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



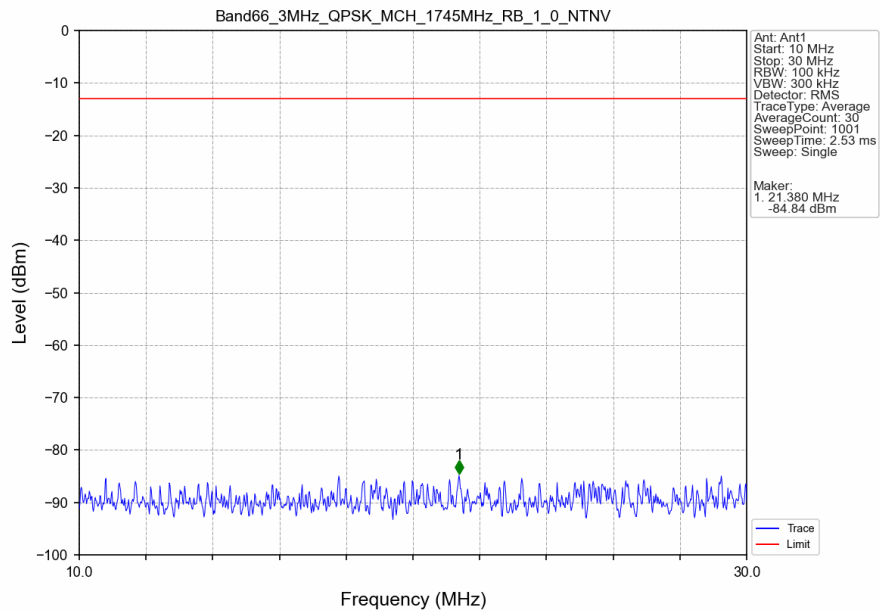
Band66_3MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



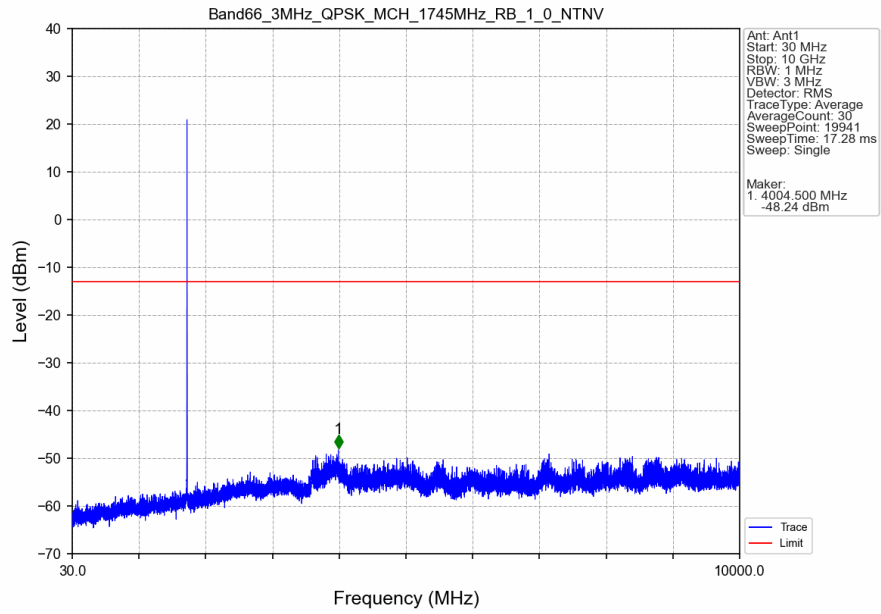
Band66_3MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



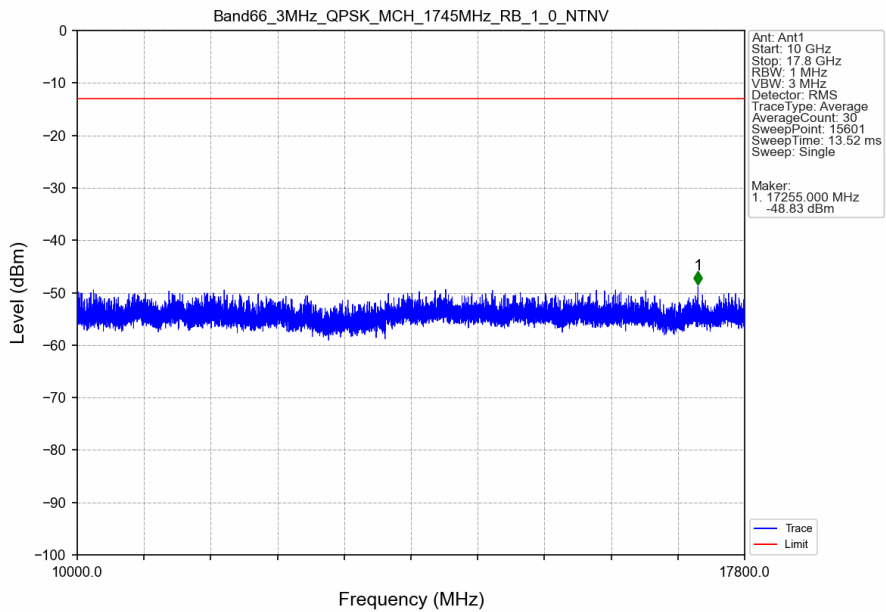
Band66_3MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



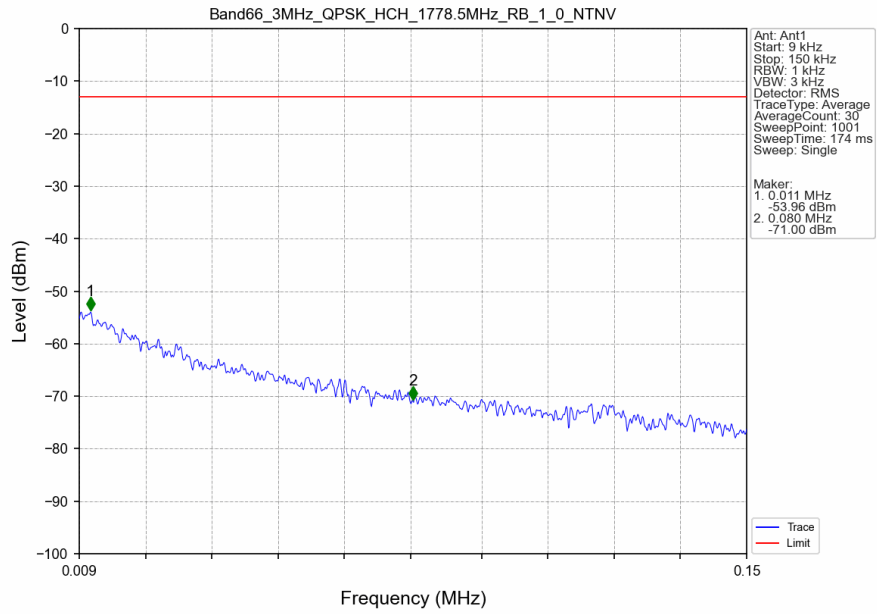
Band66_3MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



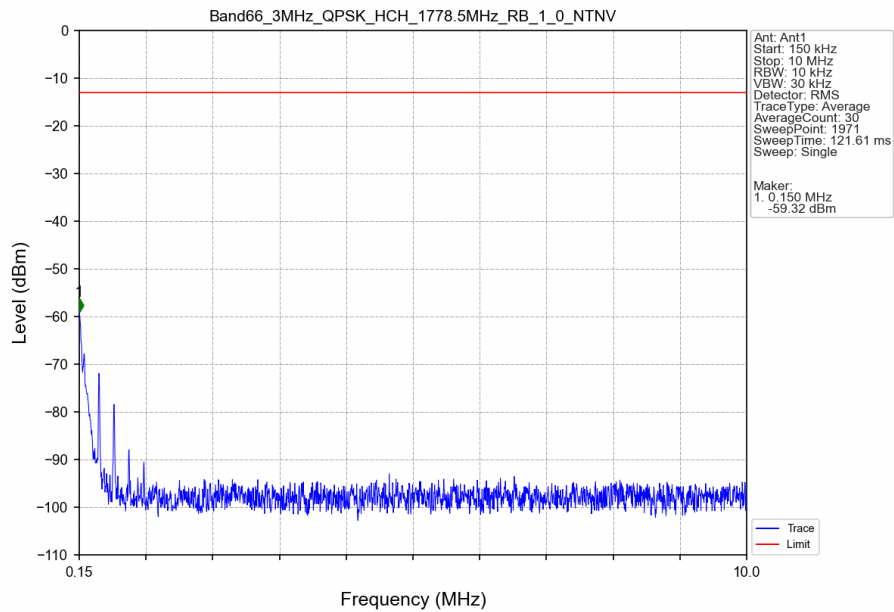
Band66_3MHz_QPSK_MCH_1745MHz_RB_1_0_NTNV



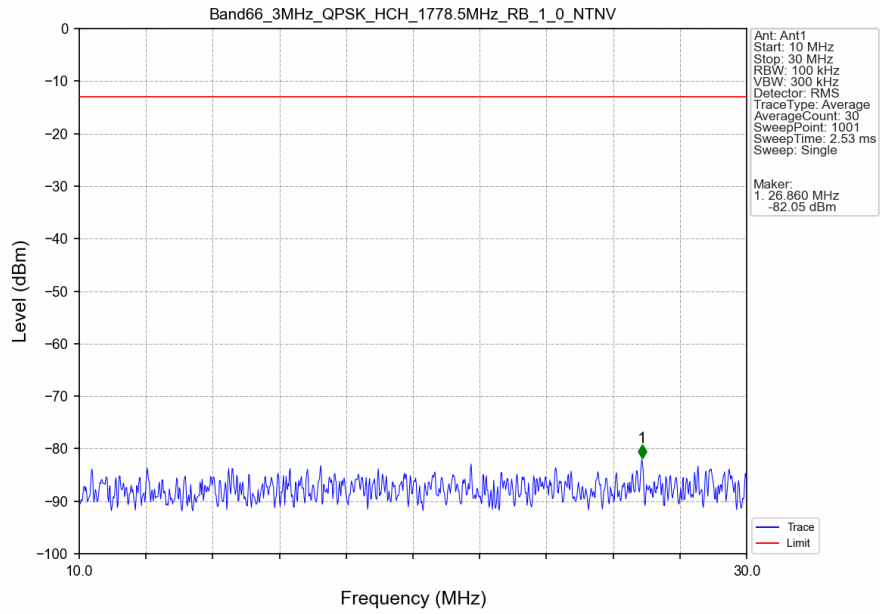
Band66_3MHz_QPSK_HCH_1778.5MHz_RB_1_0_NTNV



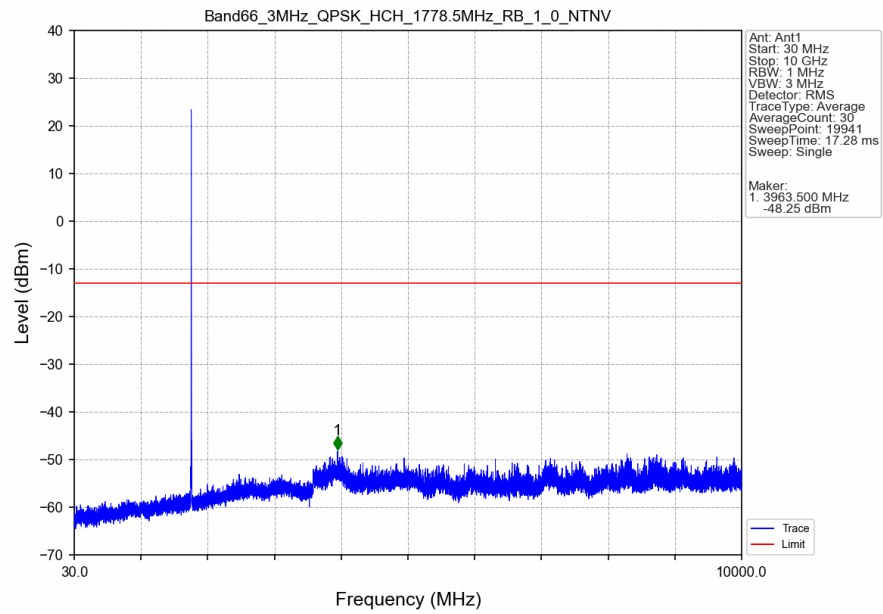
Band66_3MHz_QPSK_HCH_1778.5MHz_RB_1_0_NTNV



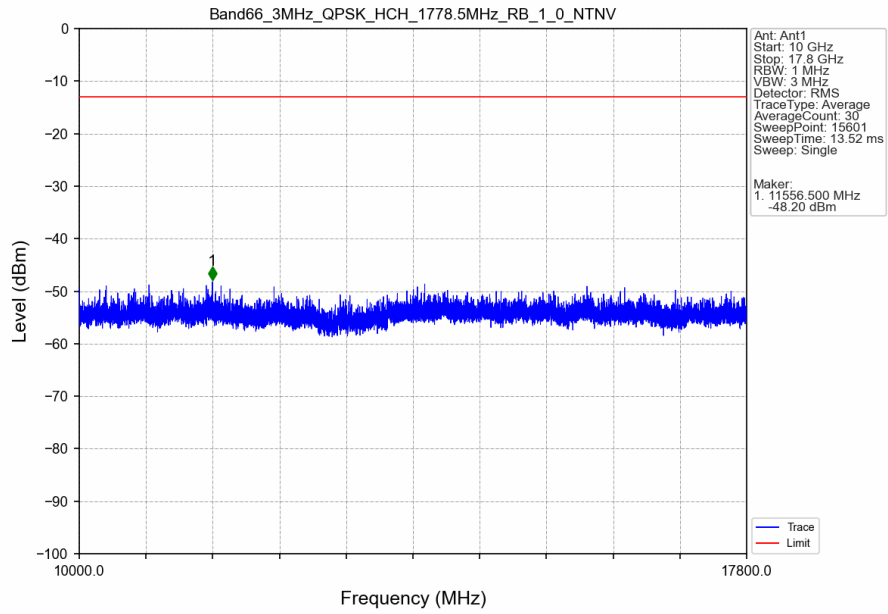
Band66_3MHz_QPSK_HCH_1778.5MHz_RB_1_0_NTNV



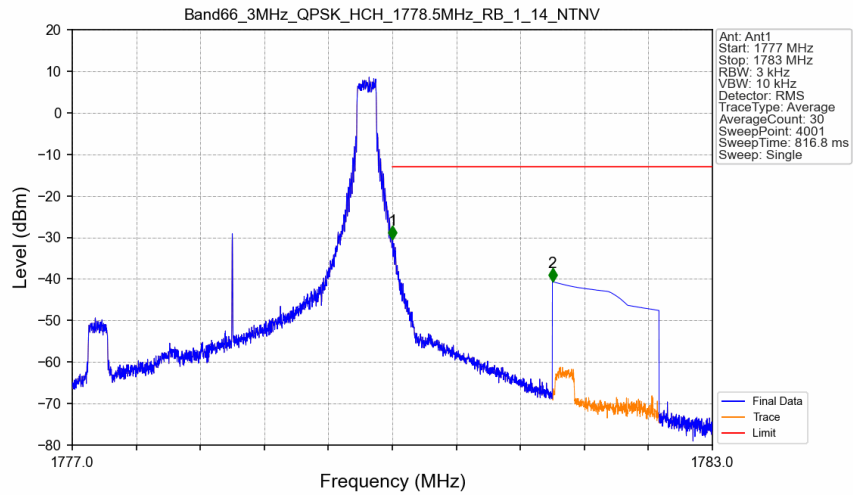
Band66_3MHz_QPSK_HCH_1778.5MHz_RB_1_0_NTNV



Band66_3MHz_QPSK_HCH_1778.5MHz_RB_1_0_NTNV

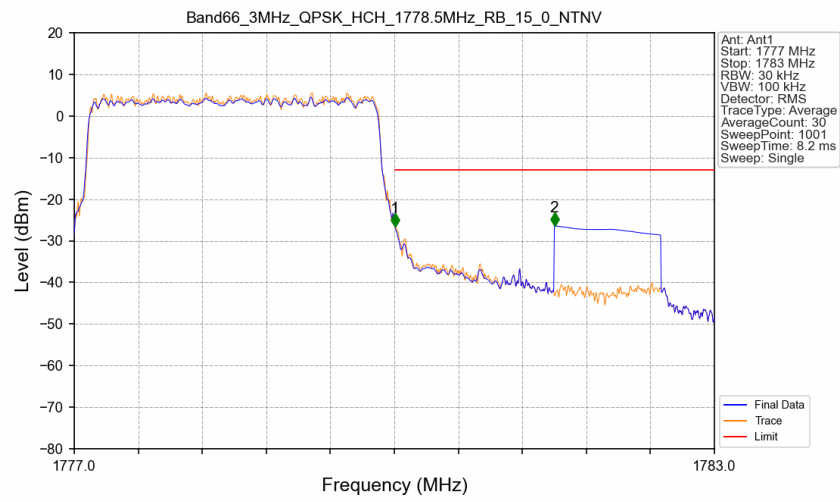


Band66_3MHz_QPSK_HCH_1778.5MHz_RB_1_14_NTNV



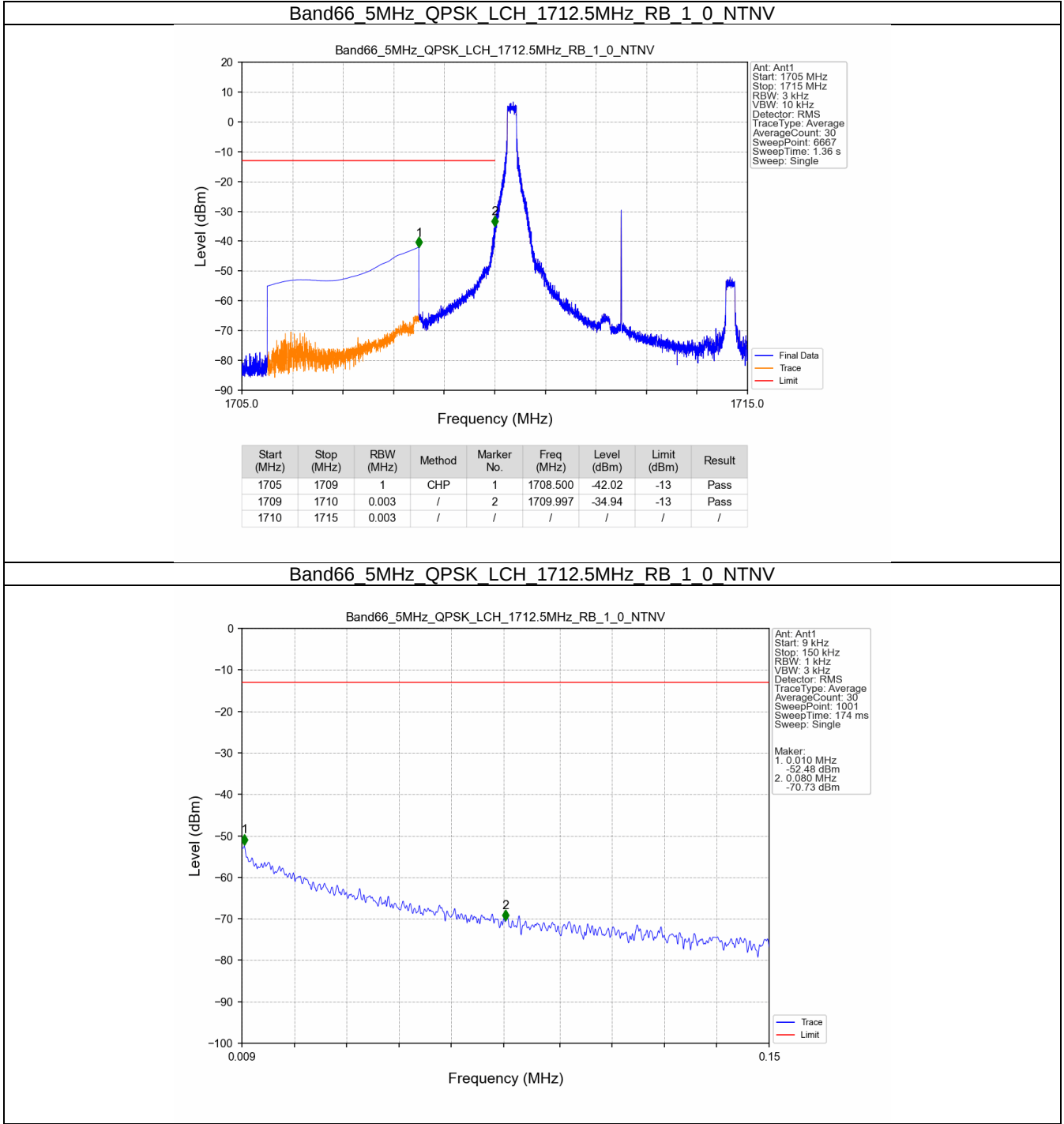
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1777	1780	0.003	/	/	/	/	/	/
1780	1781	0.003	/	1	1780.033	-30.48	-13	Pass
1781	1783	1	CHP	2	1781.500	-40.64	-13	Pass

Band66_3MHz_QPSK_HCH_1778.5MHz_RB_15_0_NTNV

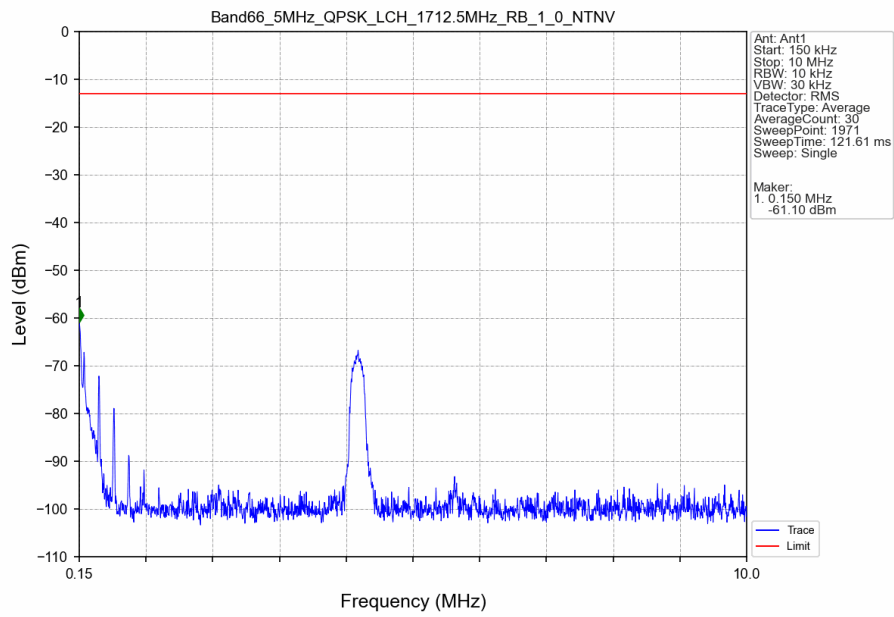


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1777	1780	0.031	CHP	/	/	/	/	/
1780	1781	0.031	CHP	1	1780.006	-26.59	-13	Pass
1781	1783	1	CHP	2	1781.500	-26.40	-13	Pass

5.2.3 B66_5MHz



Band66 5MHz QPSK LCH 1712.5MHz RB 1 0 NTNV



Band66 5MHz QPSK LCH 1712.5MHz RB 1 0 NTNV

