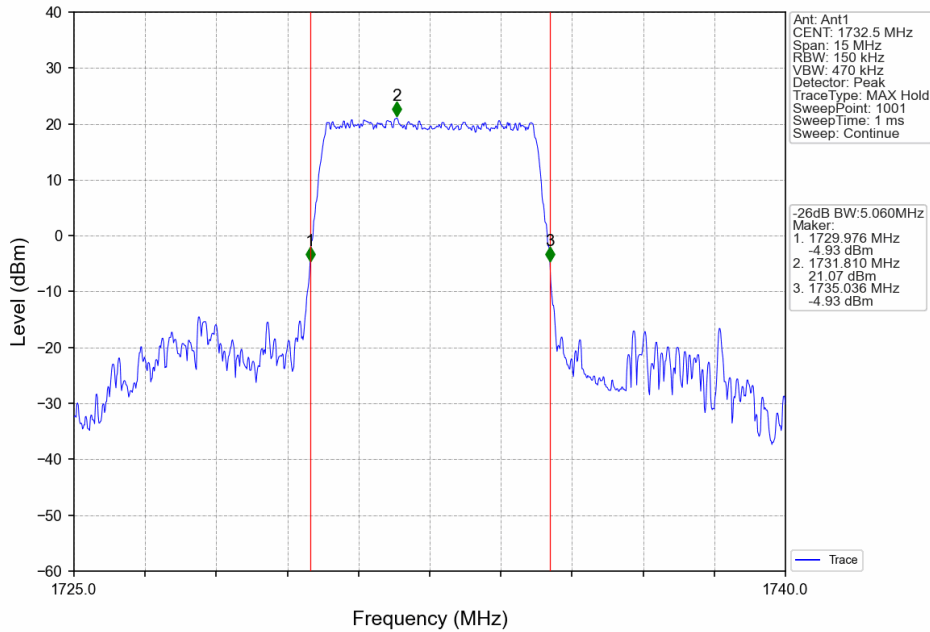


Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

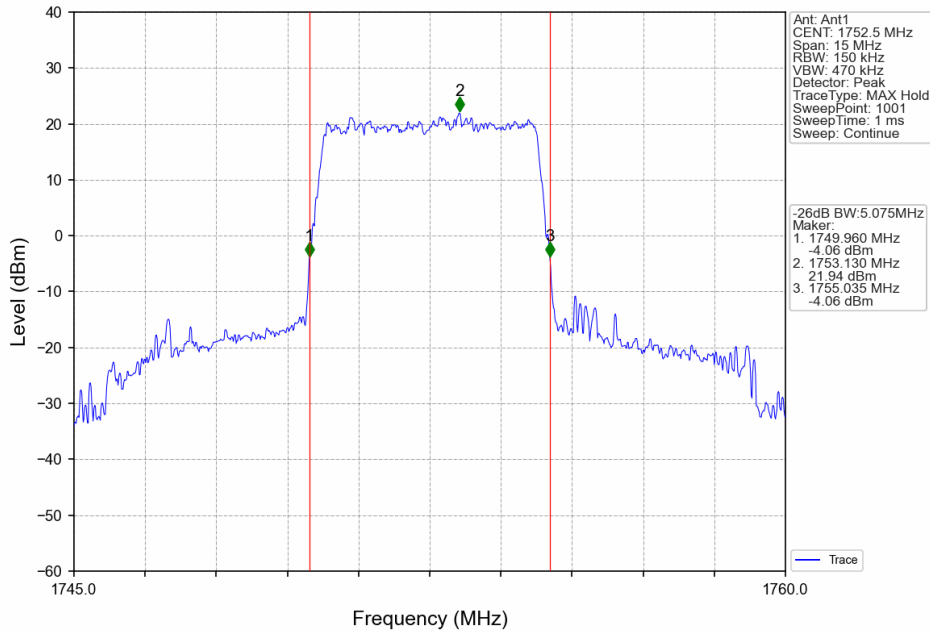


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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

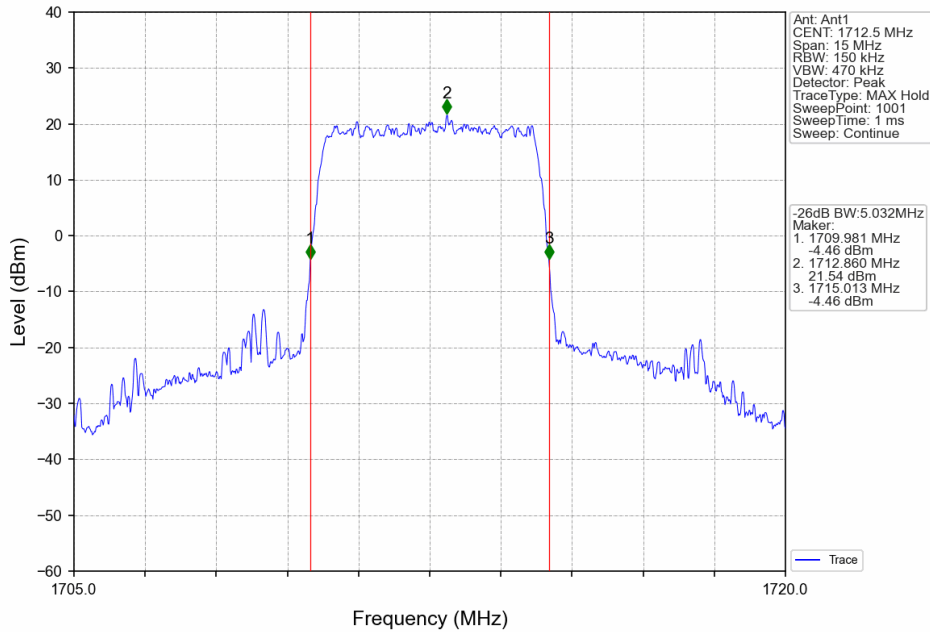


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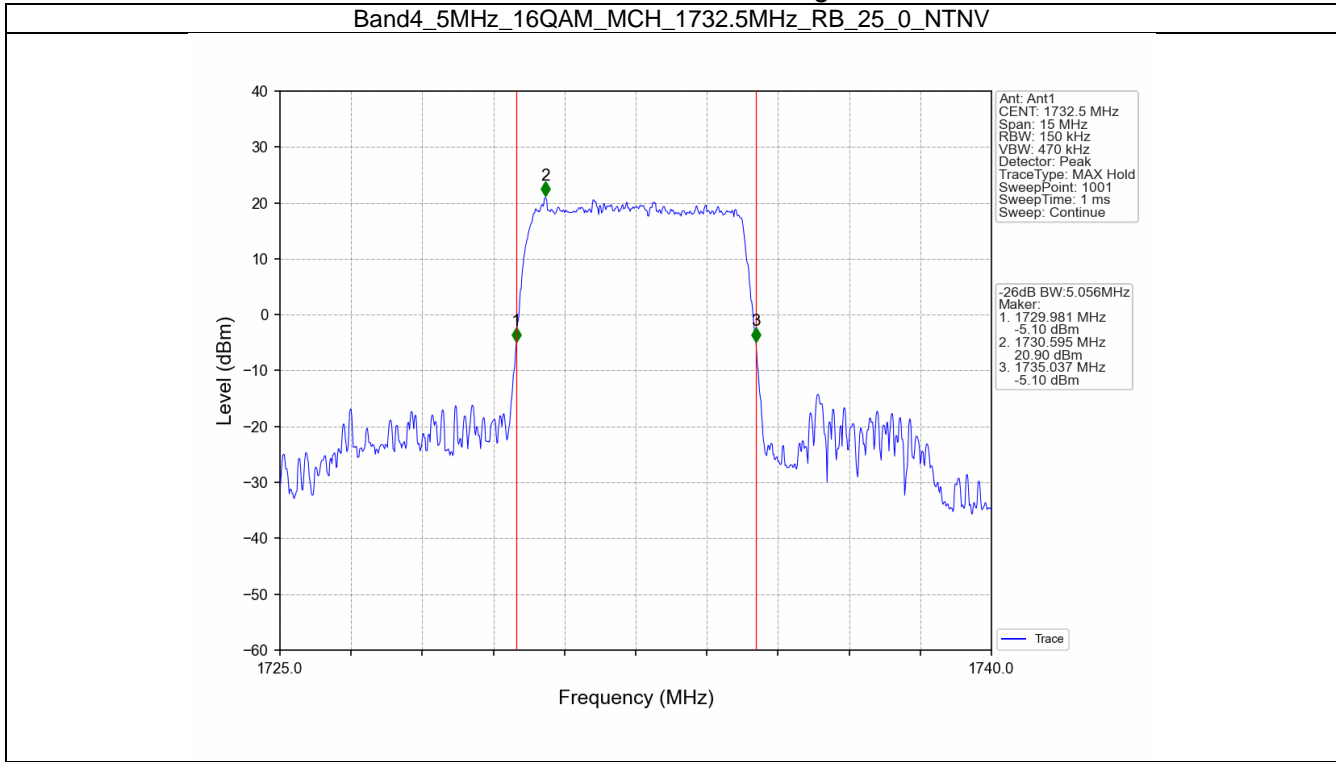
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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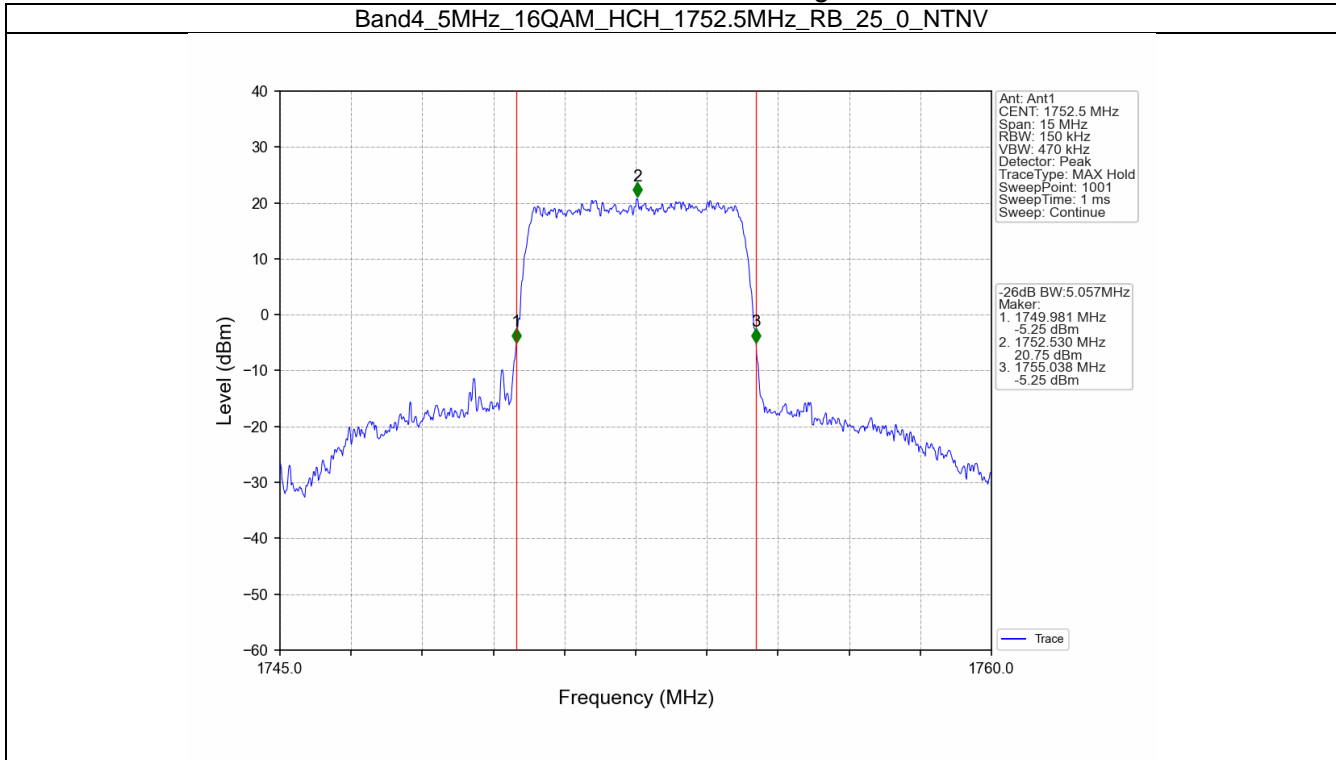
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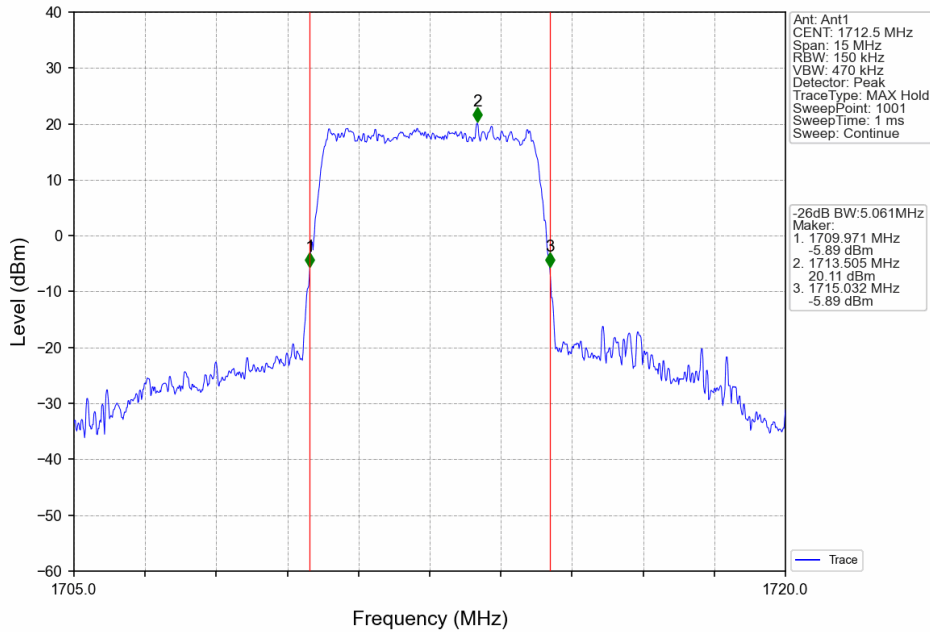


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Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV

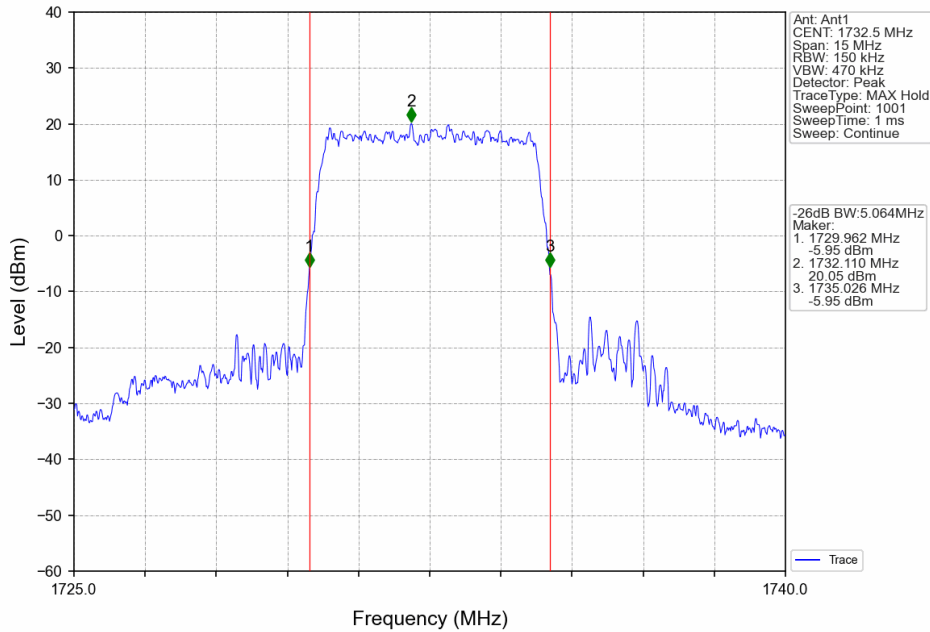


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Band4_5MHz_64QAM_MCH_1732.5MHz_RB_25_0_NTNV

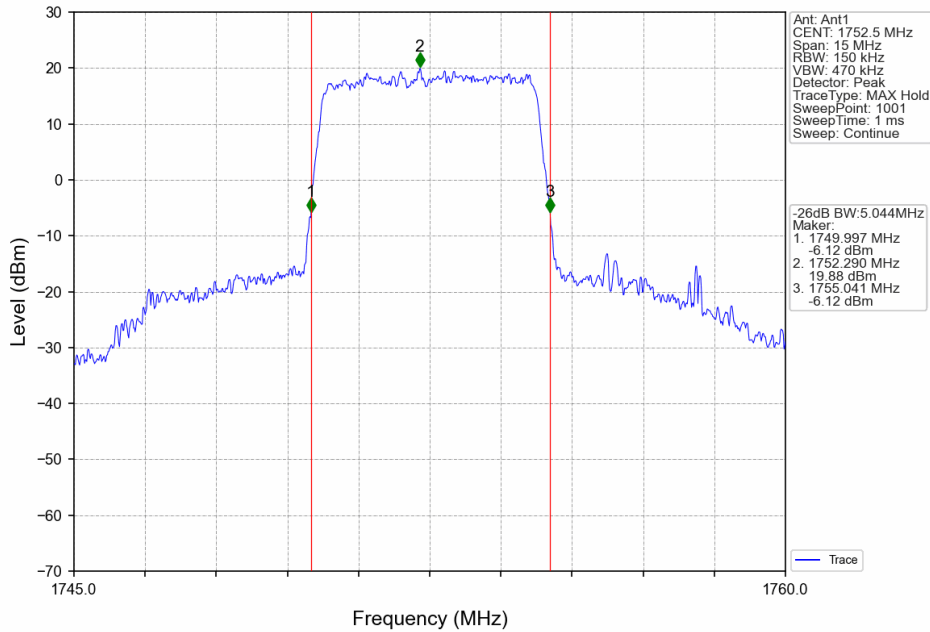


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Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV

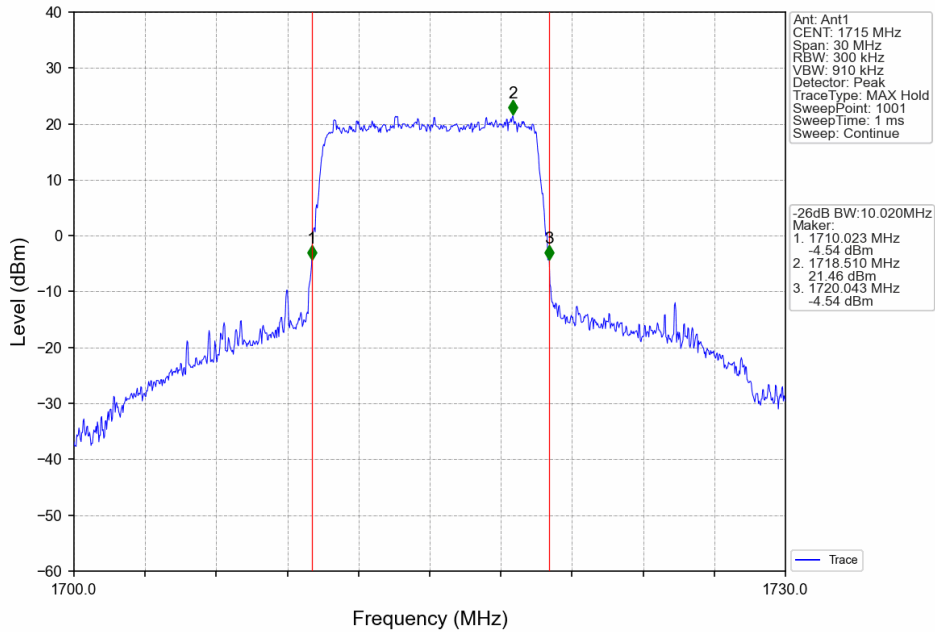


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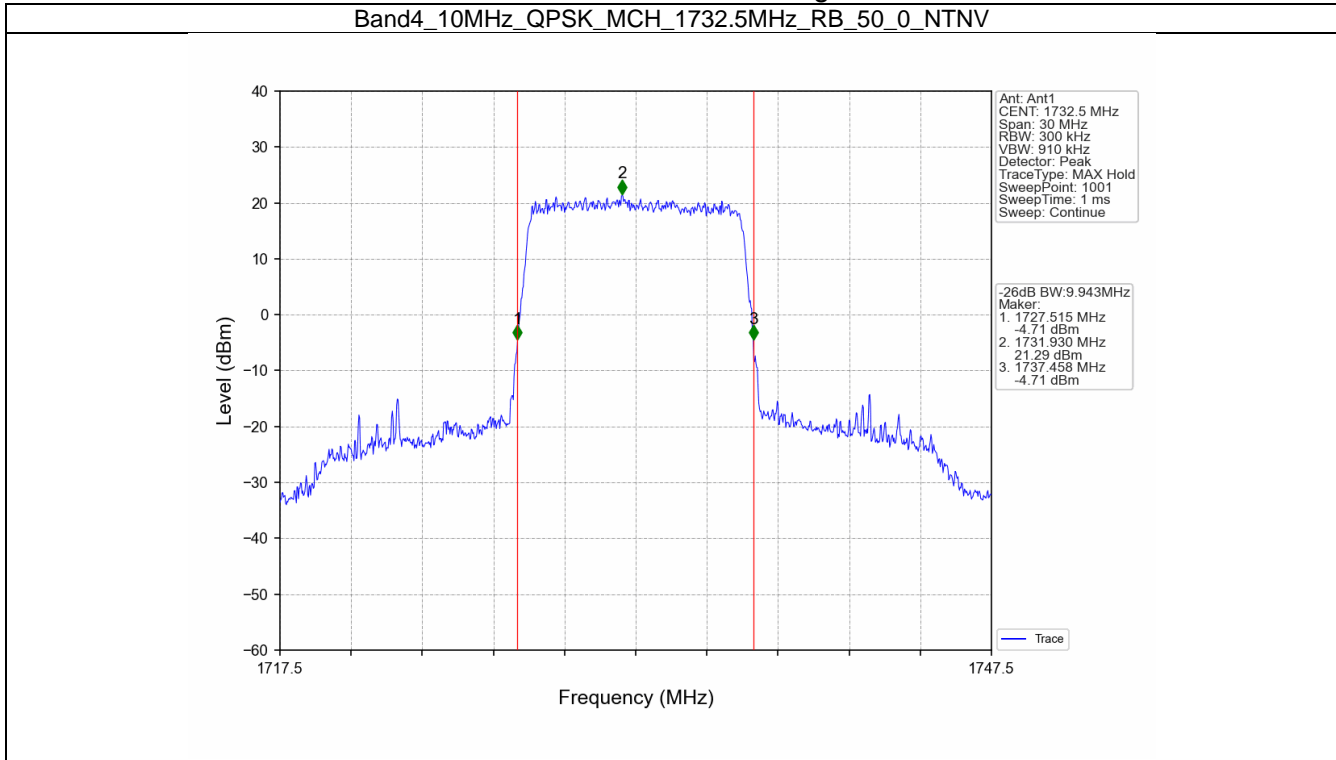
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



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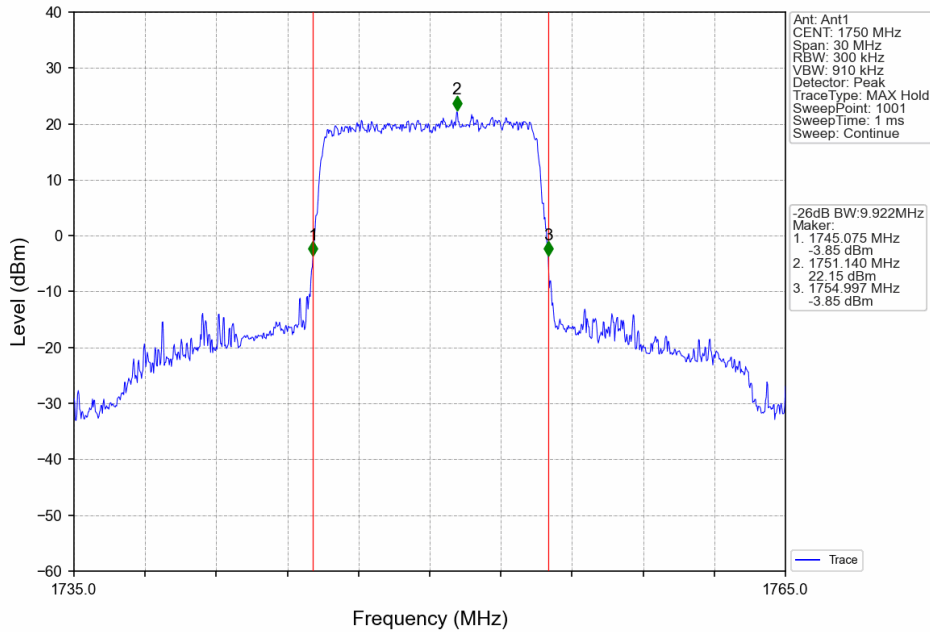


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Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV

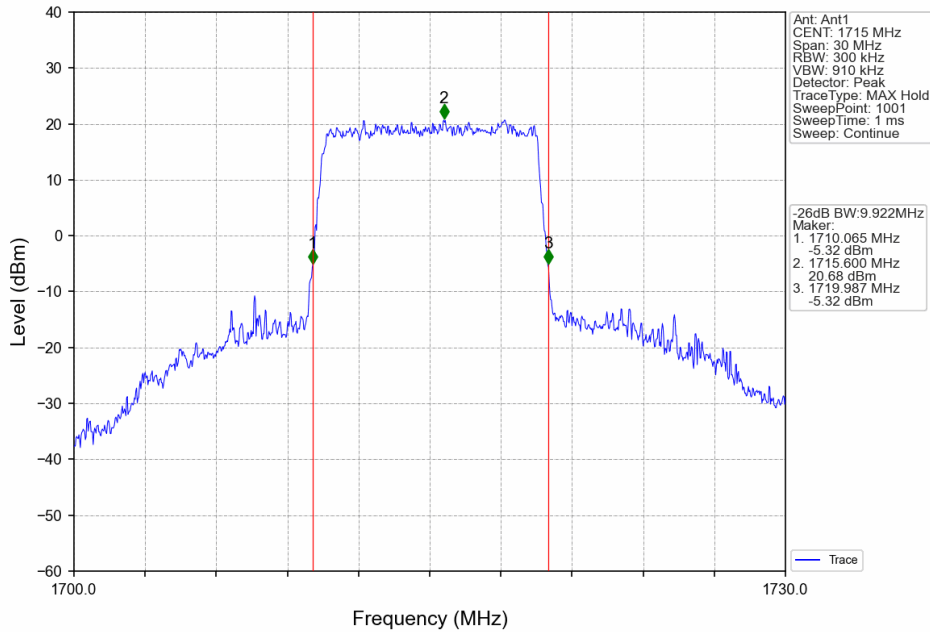


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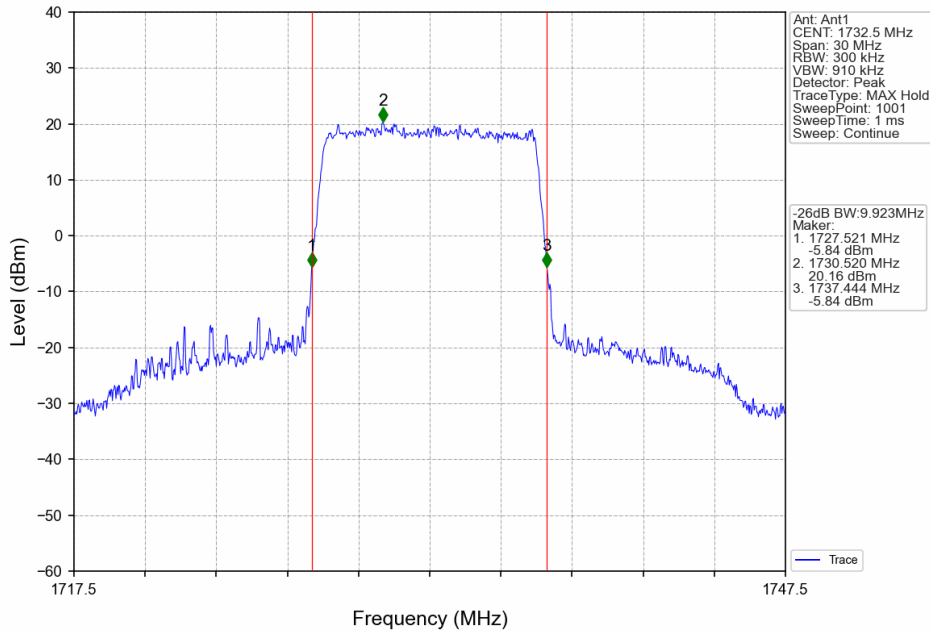


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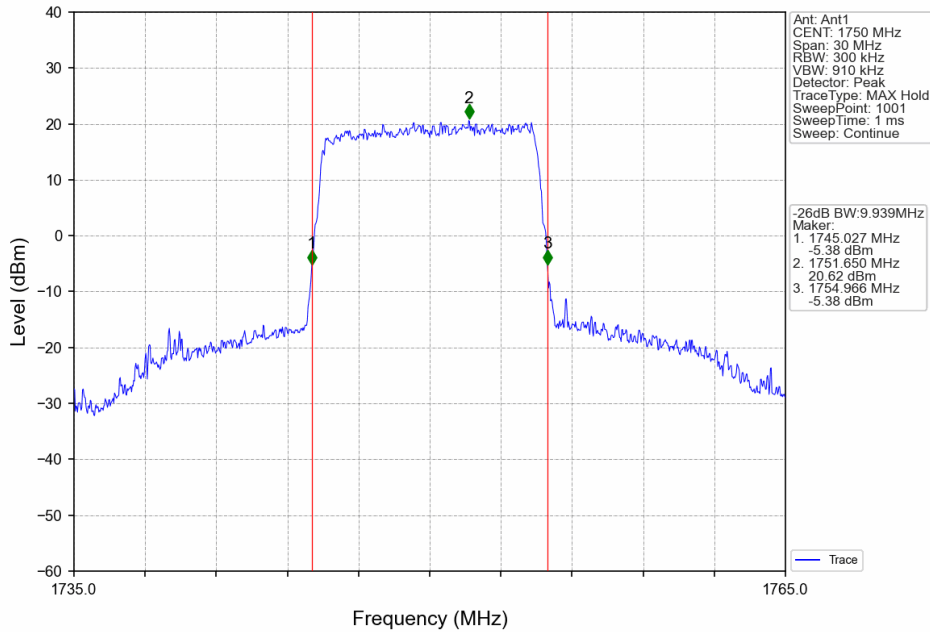


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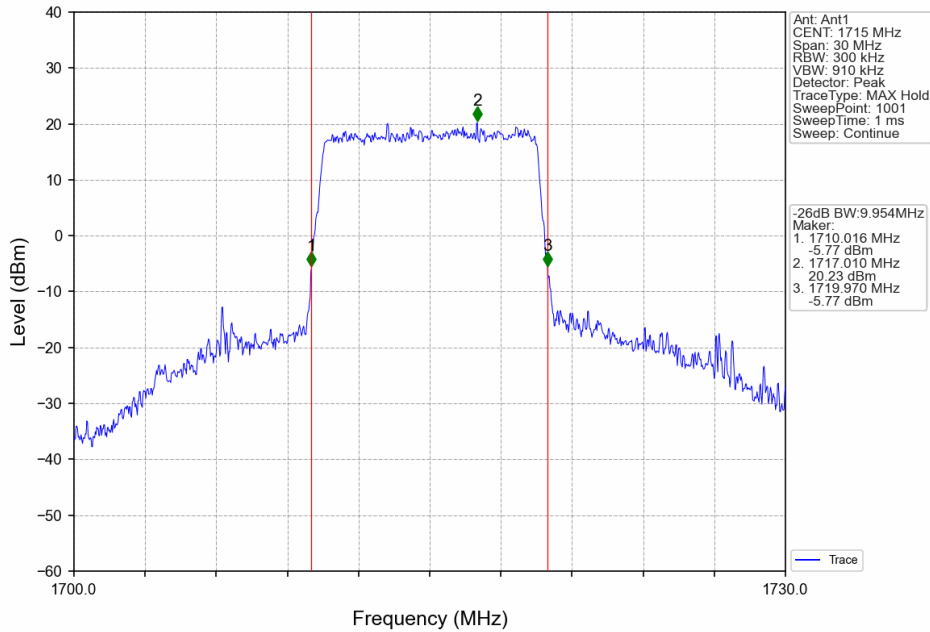


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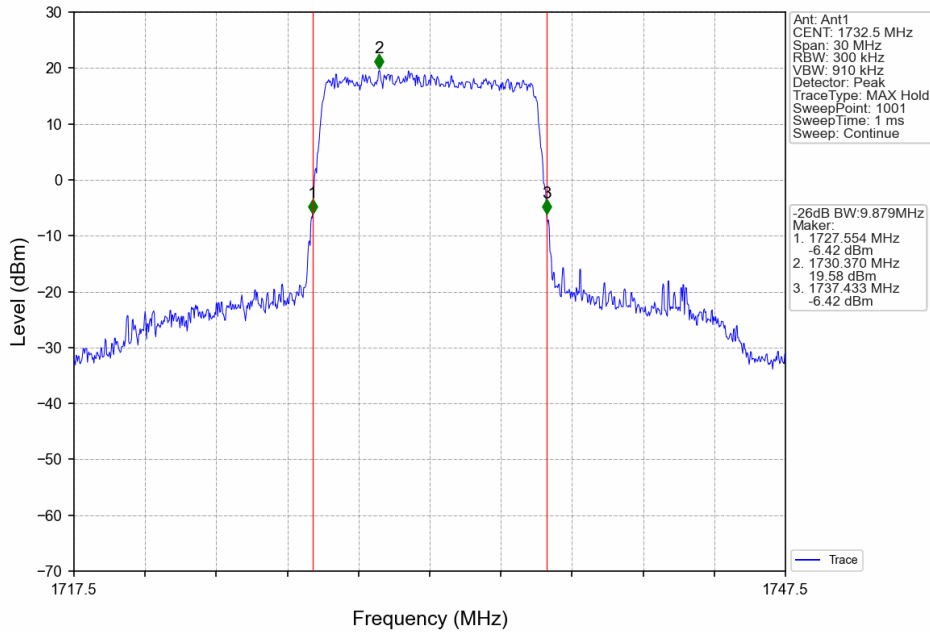


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Band4_10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV

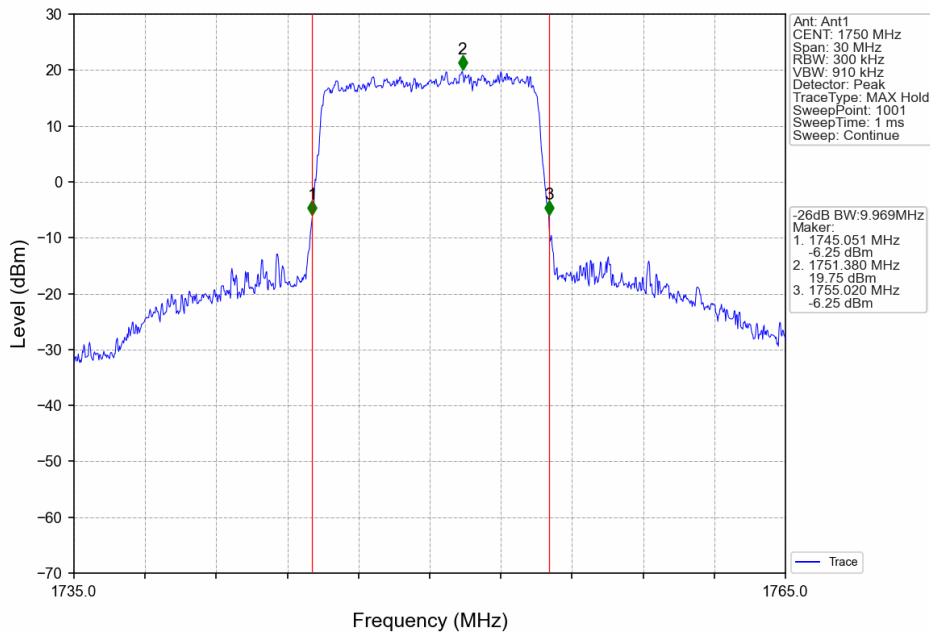


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Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV

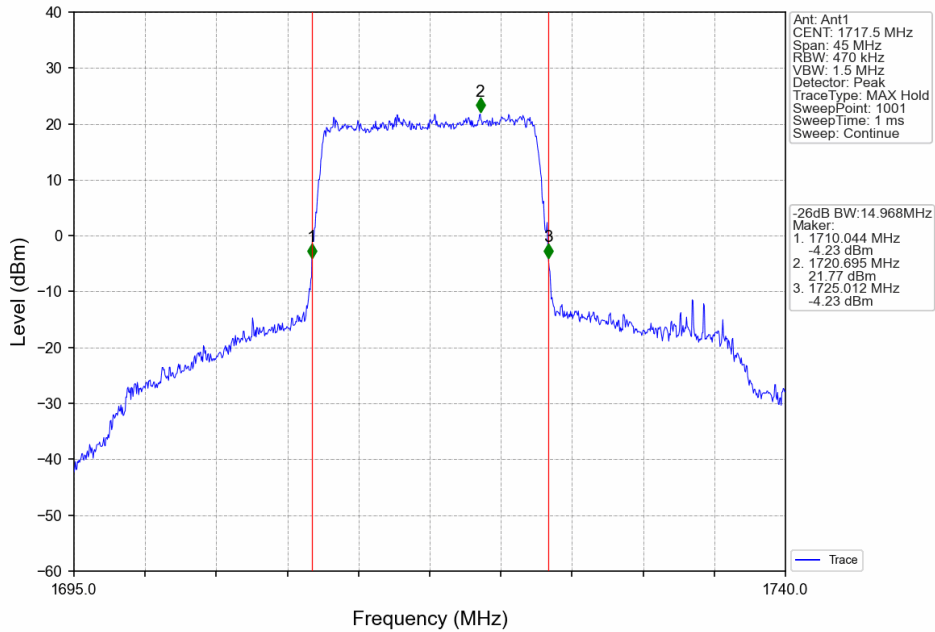


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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

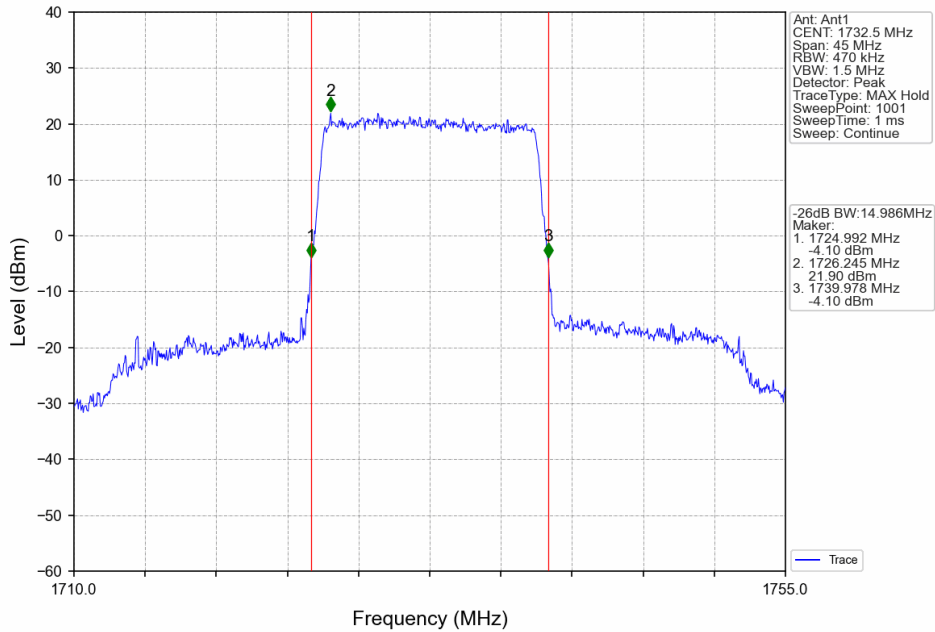


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Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

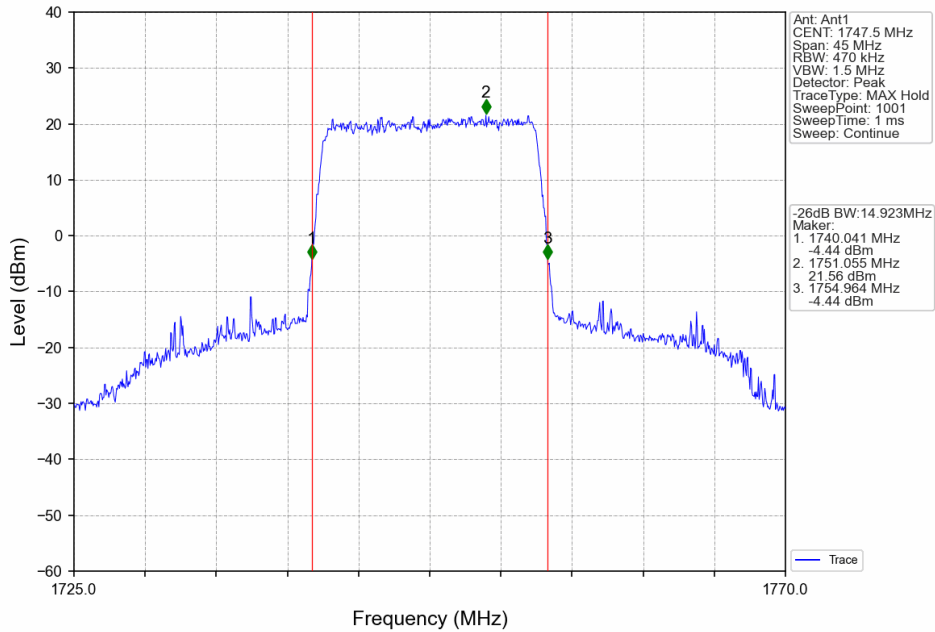


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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV

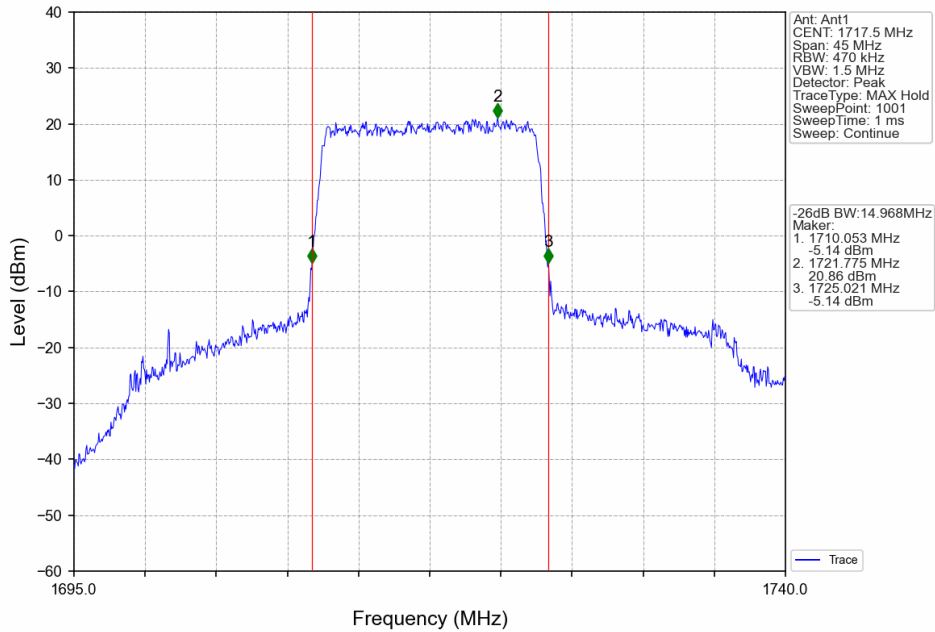


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Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV

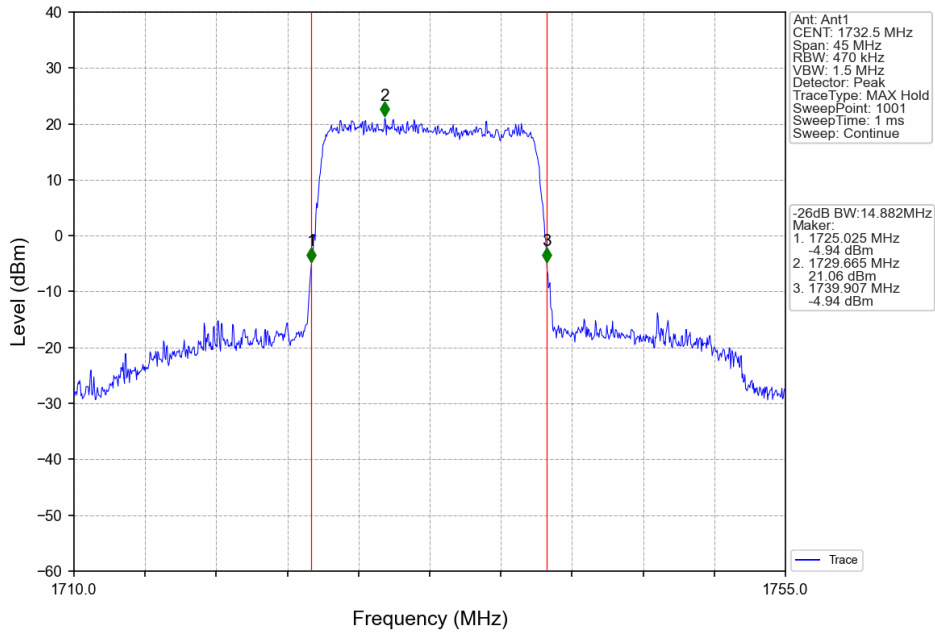


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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

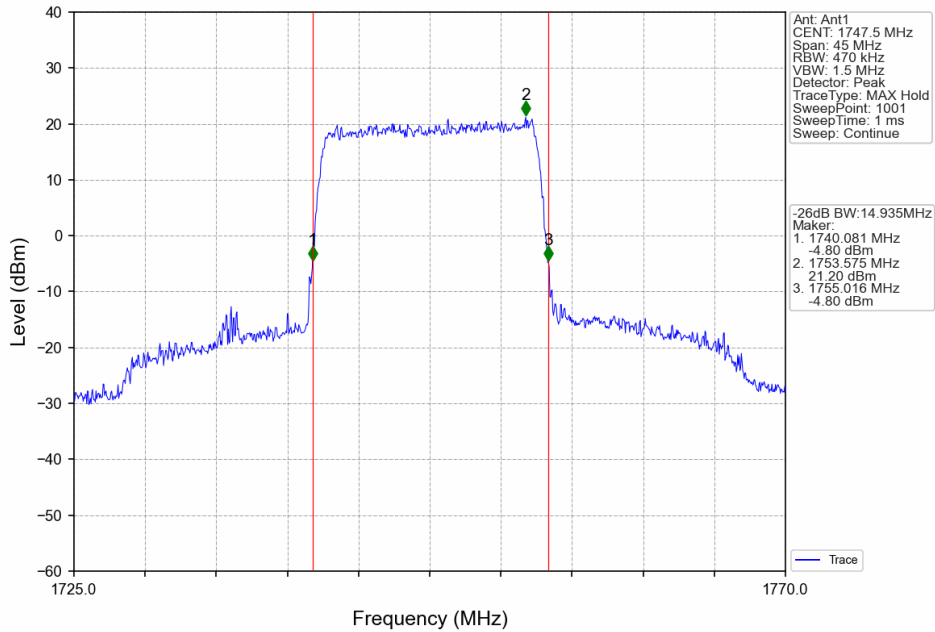


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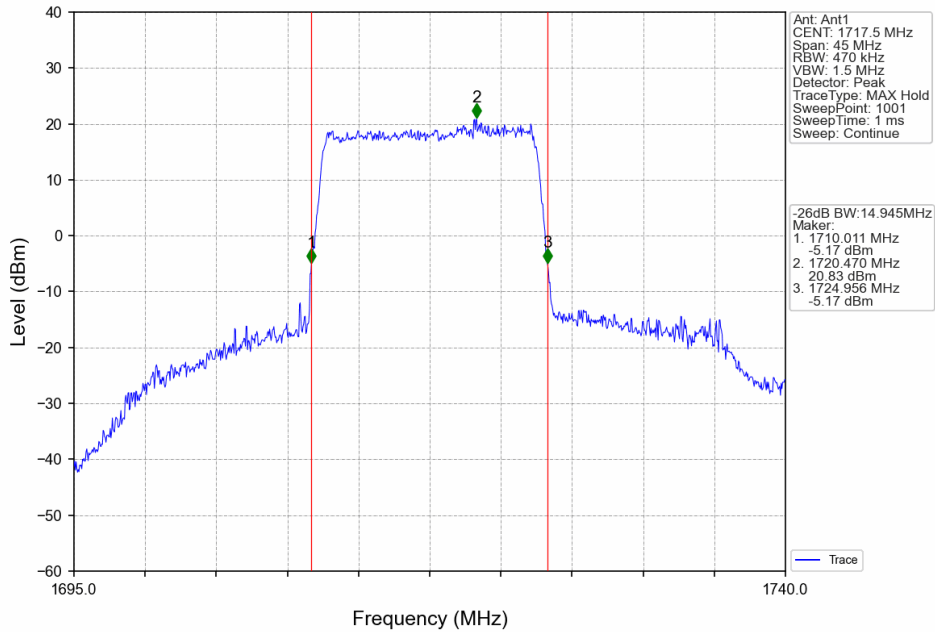


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Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV

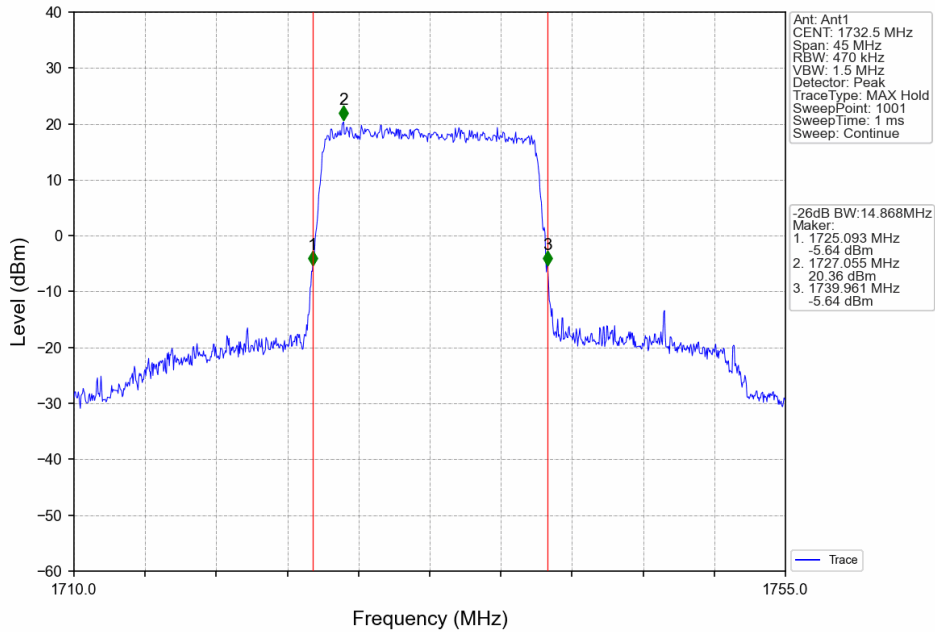


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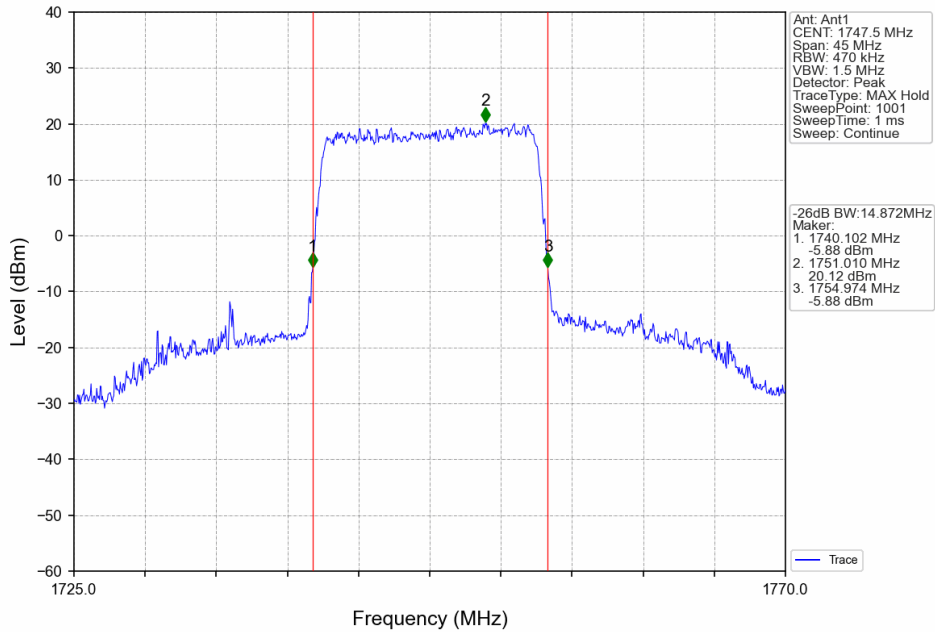


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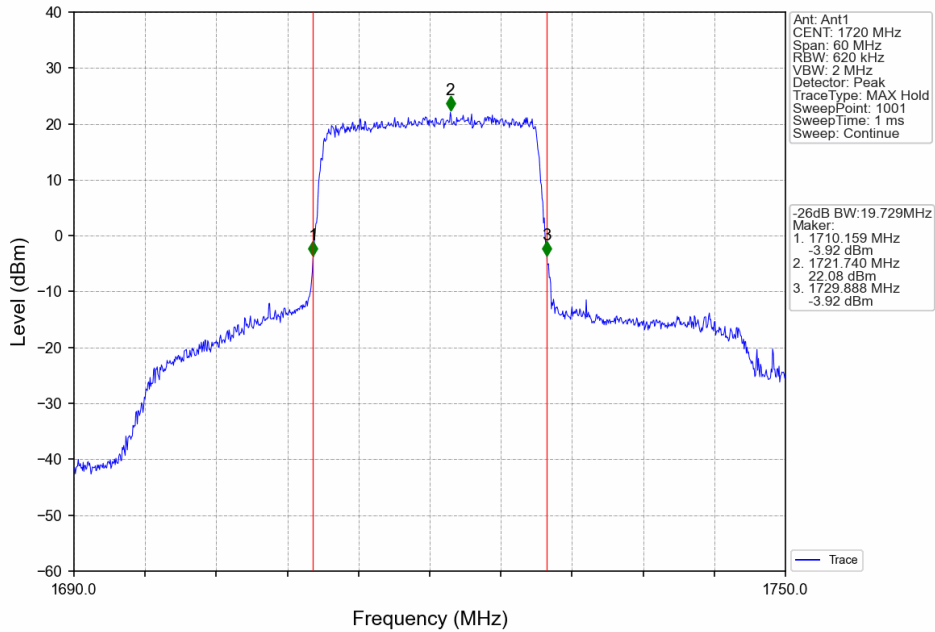


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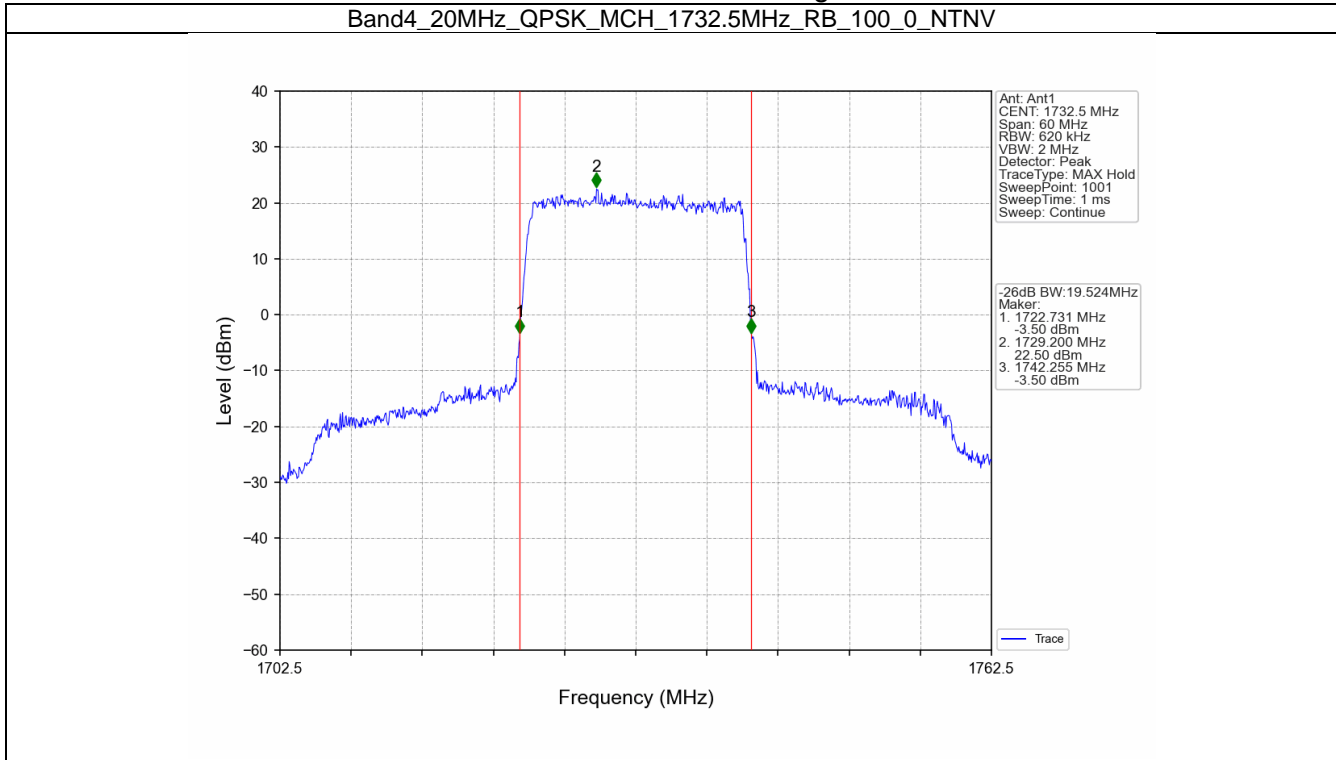
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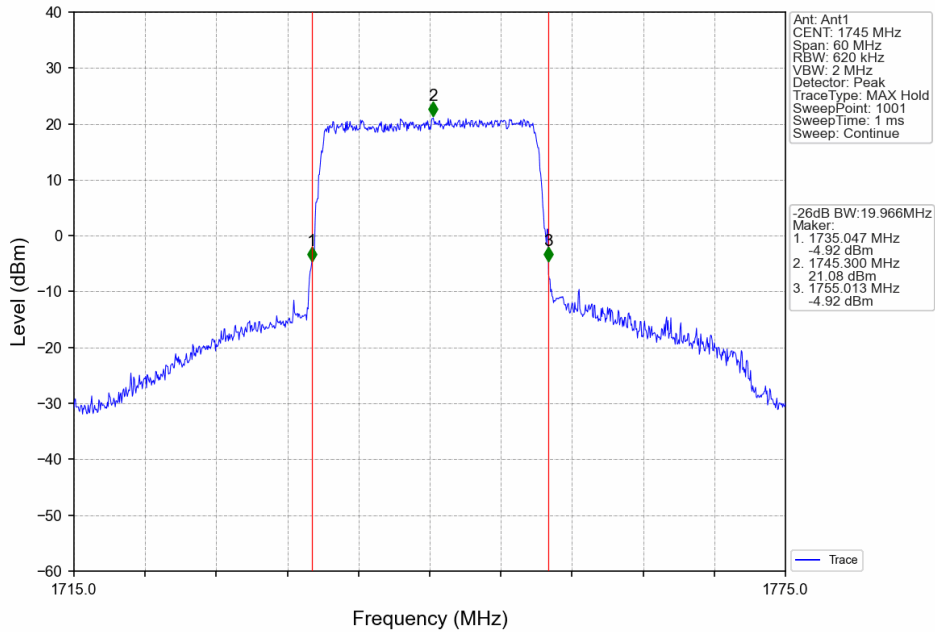


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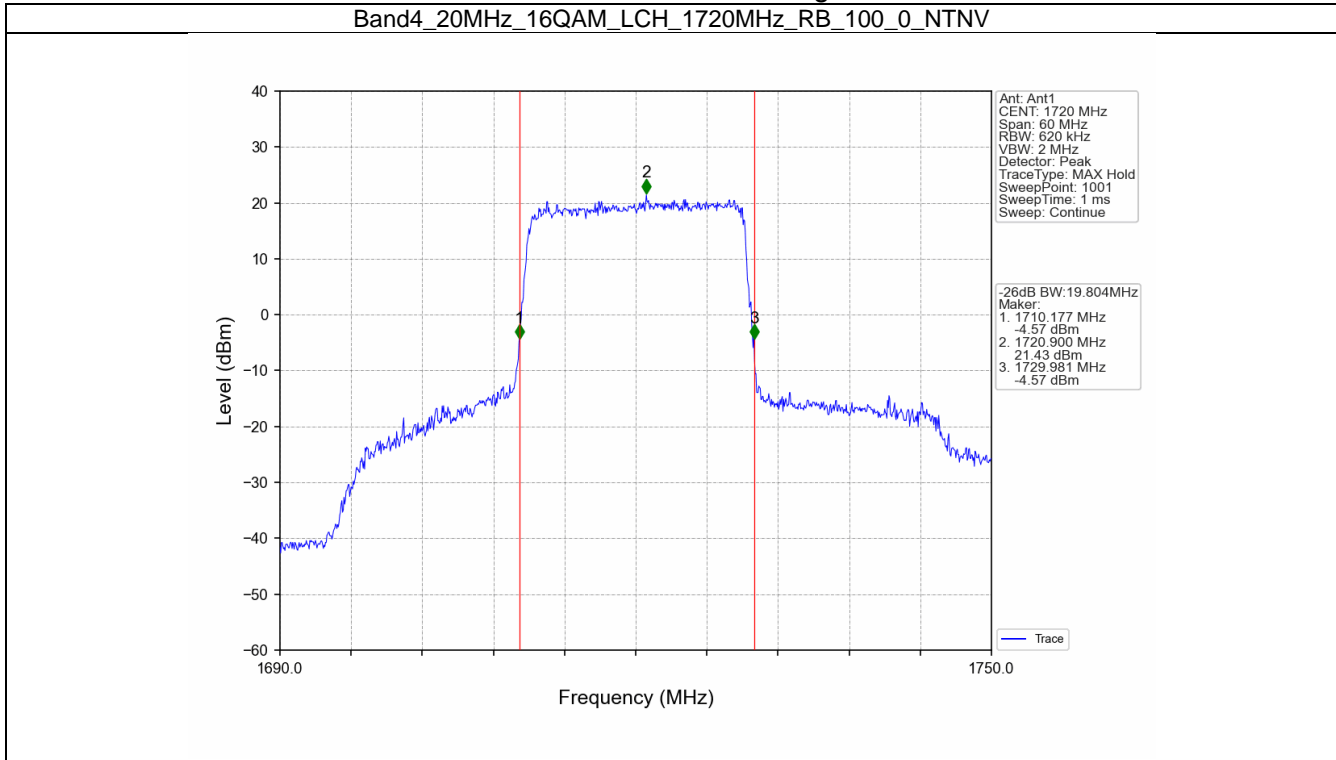
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



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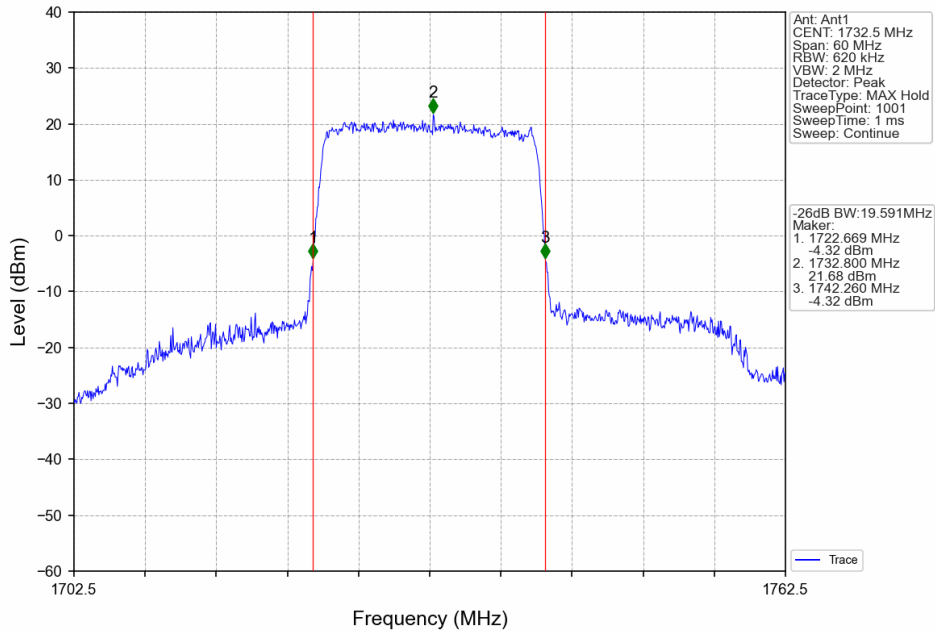


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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV

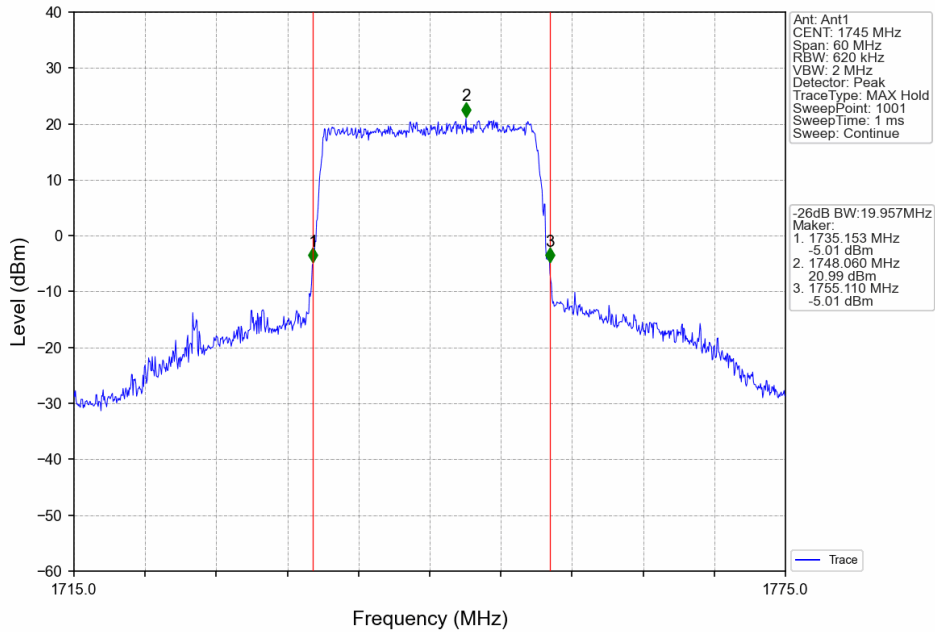


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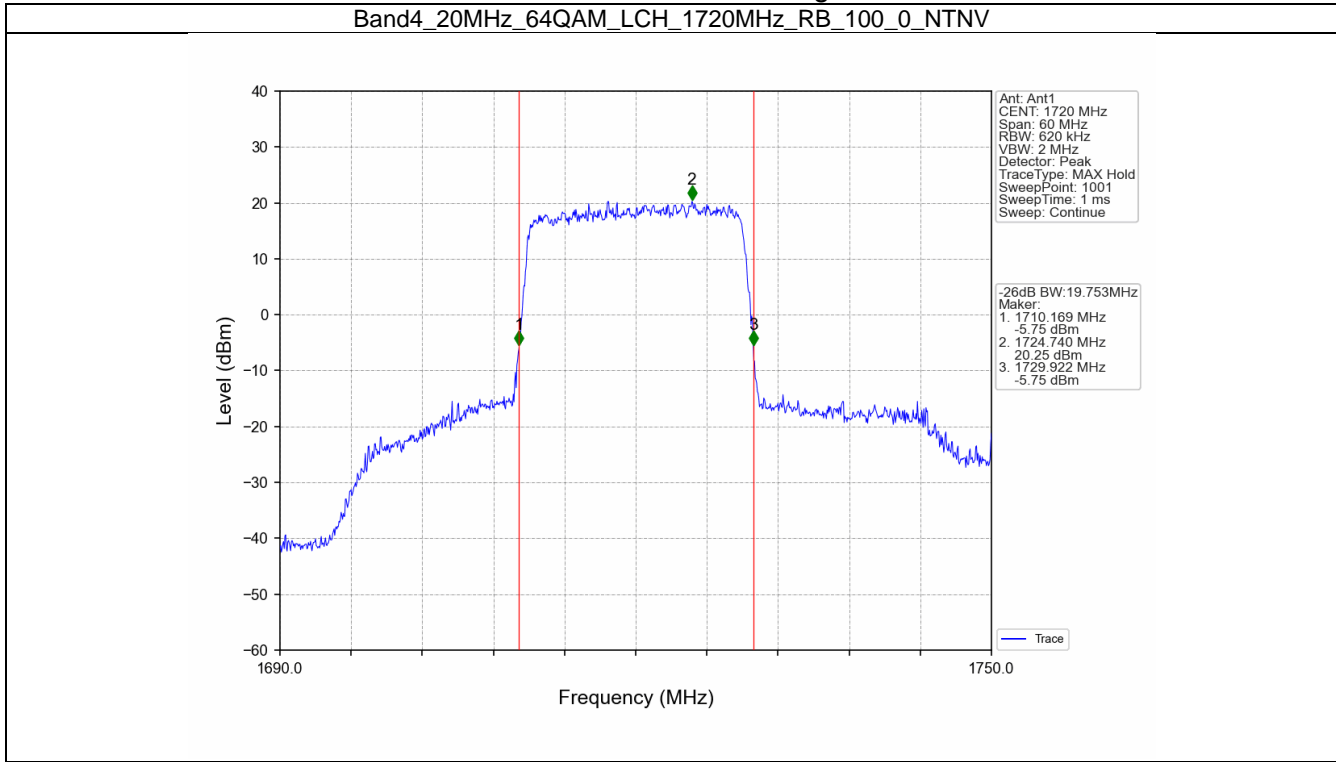
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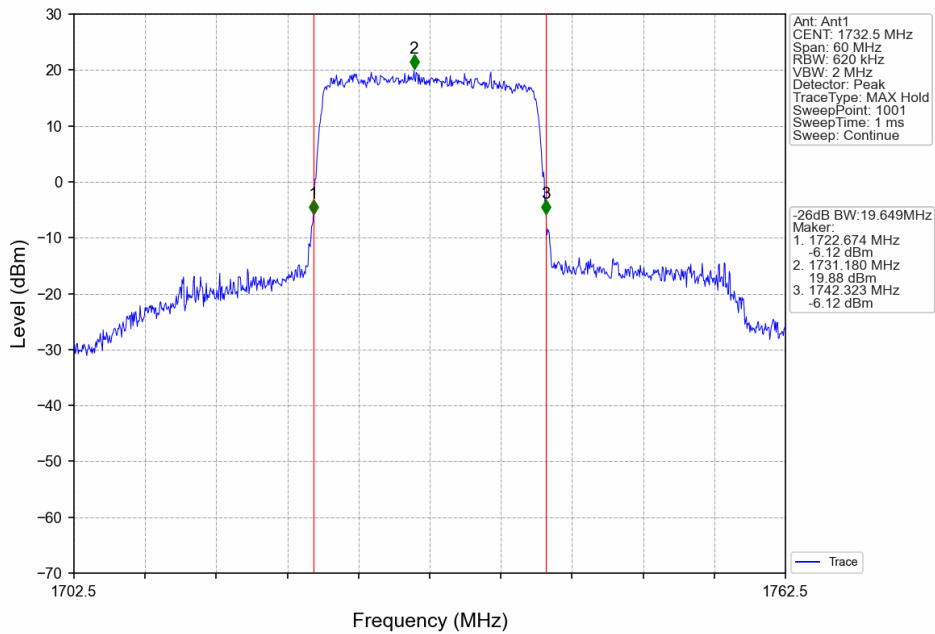


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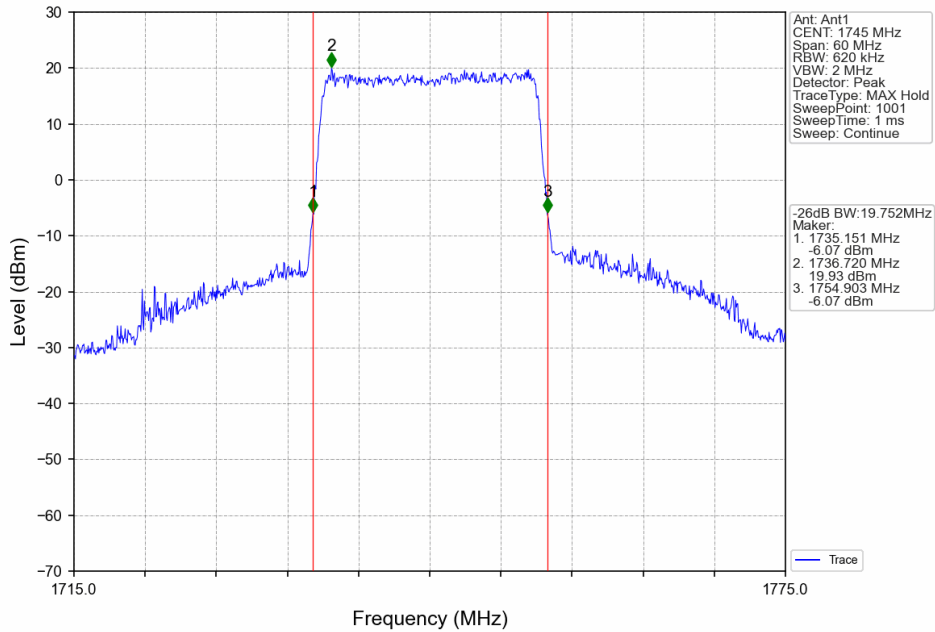


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3. Peak-Average Ratio

3.1 B4_1.4MHz

3.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.32	<=13	Pass
	1732.5	6	0	5.26	<=13	Pass
	1754.3	6	0	4.45	<=13	Pass
16QAM	1710.7	6	0	6.05	<=13	Pass
	1732.5	6	0	6.13	<=13	Pass
	1754.3	6	0	5.47	<=13	Pass
64QAM	1710.7	6	0	6.61	<=13	Pass
	1732.5	6	0	6.37	<=13	Pass
	1754.3	6	0	6.77	<=13	Pass

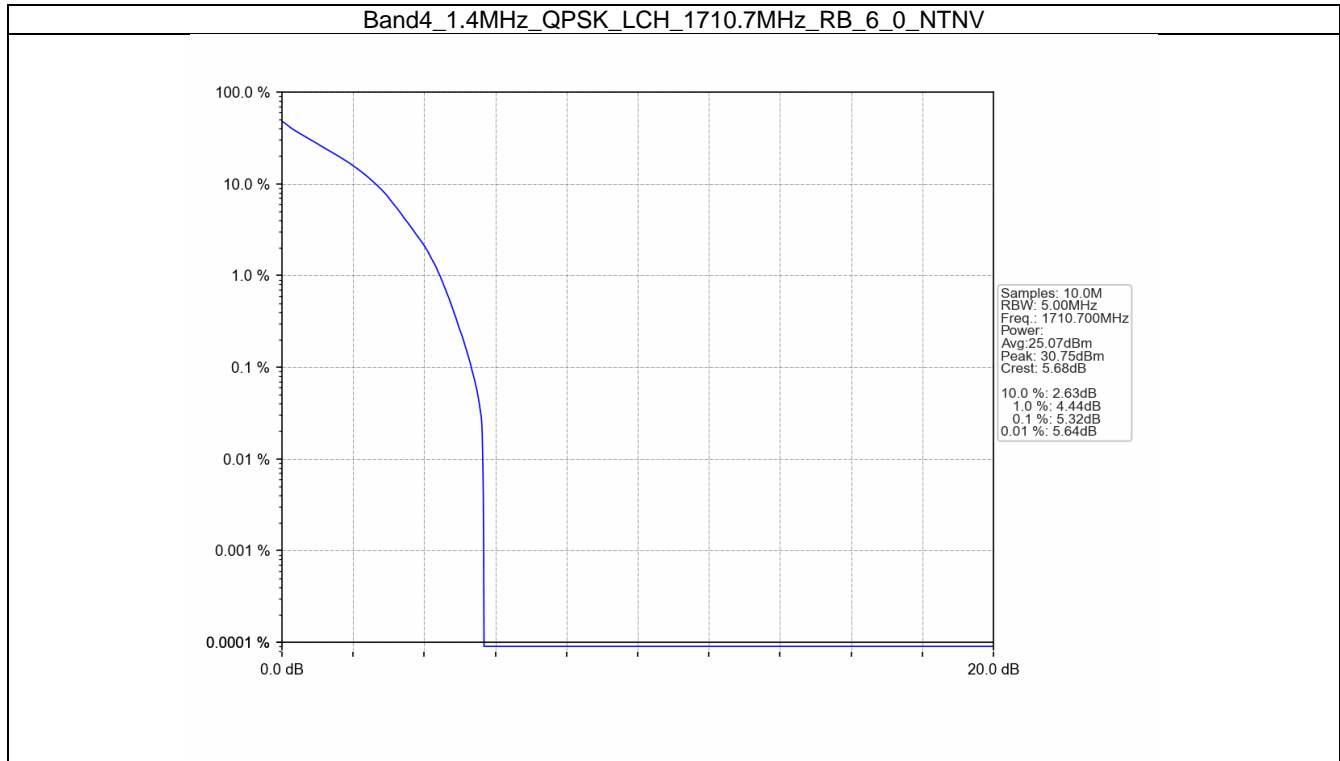


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3.1.2 Test Graph

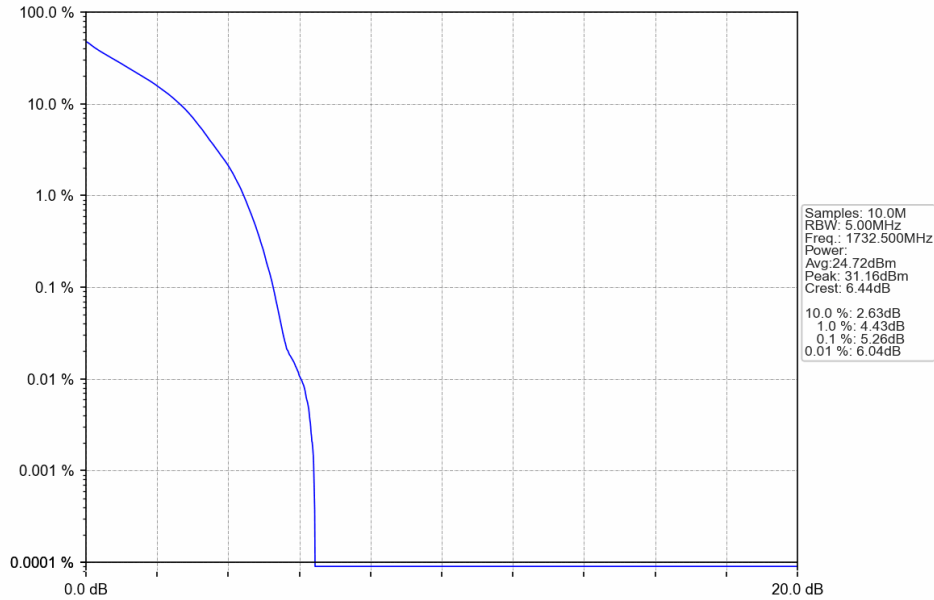


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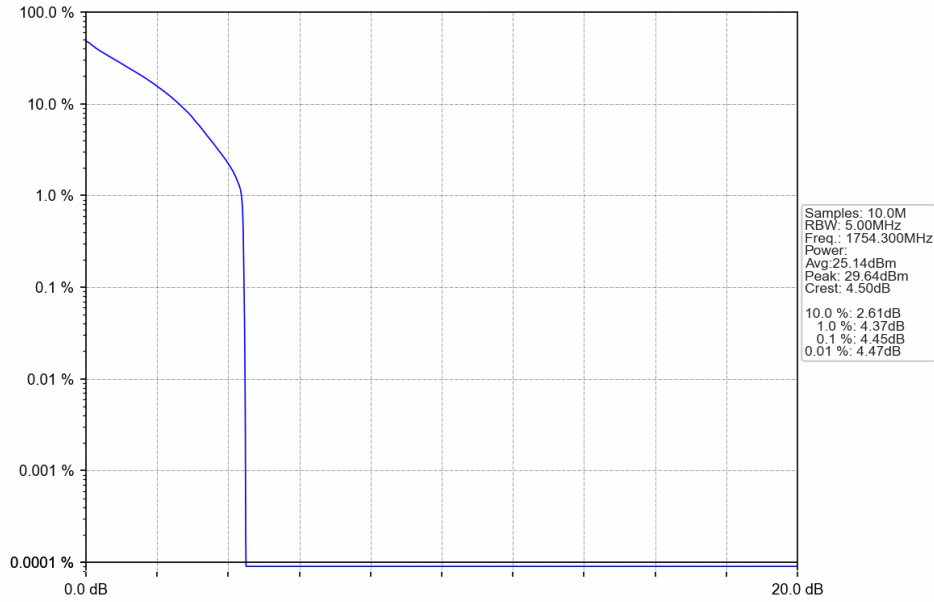
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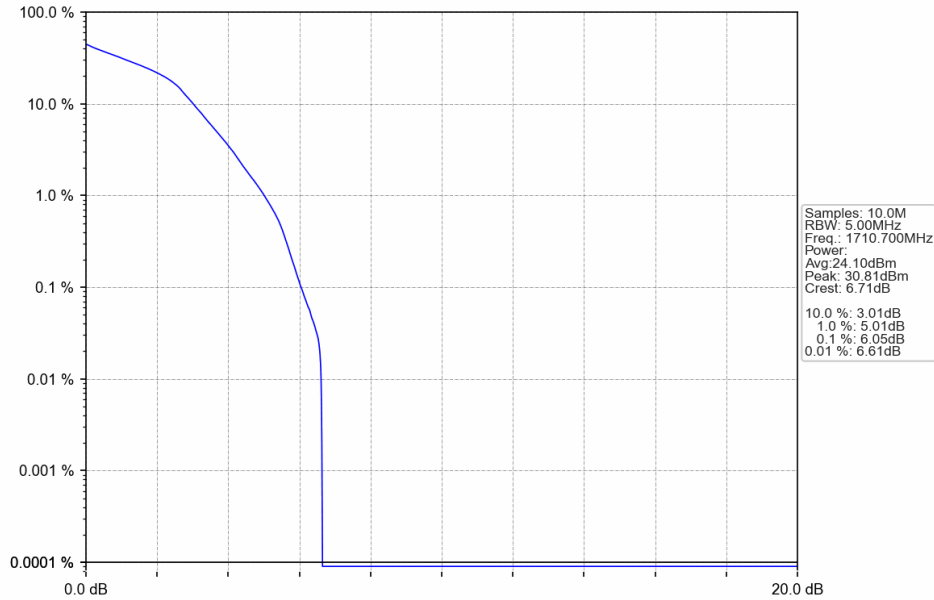
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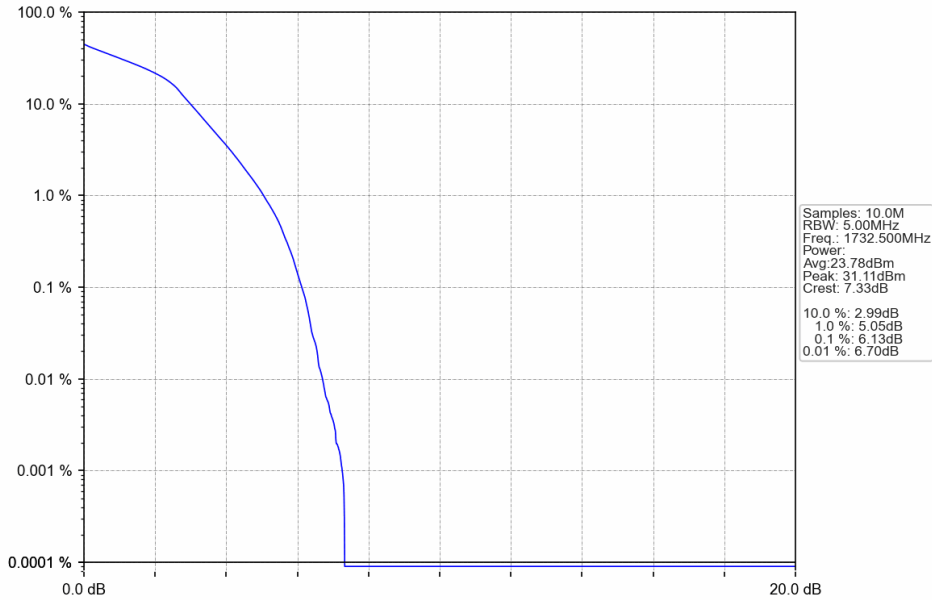
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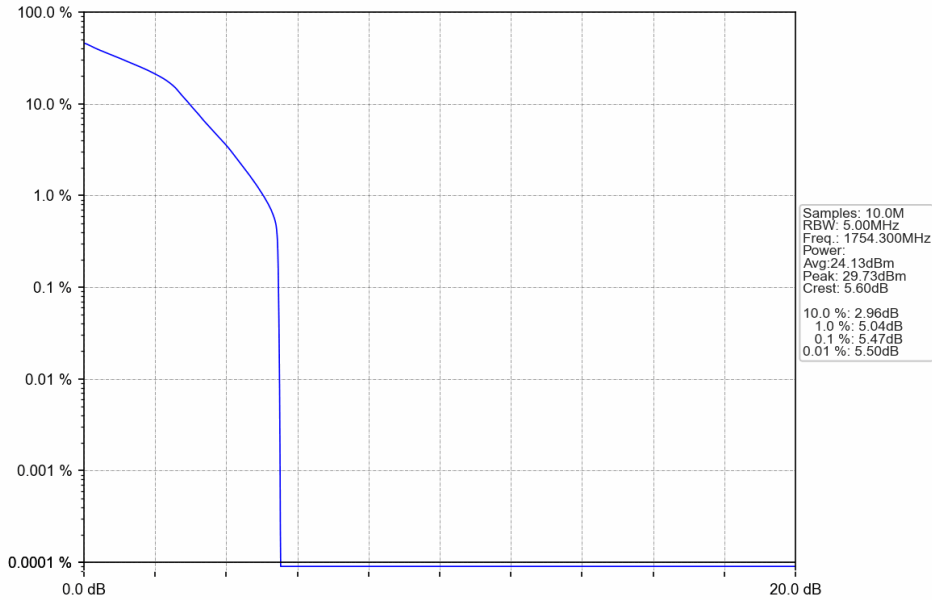
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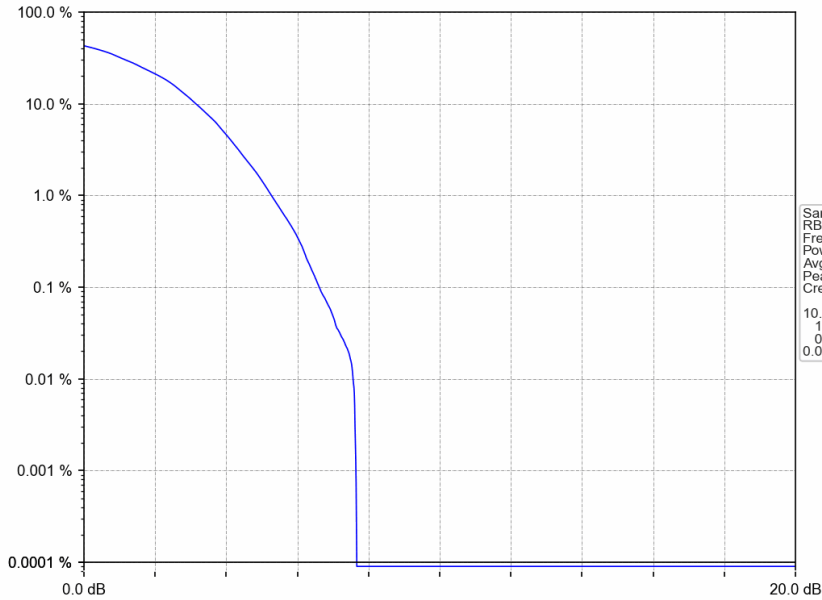
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Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_6_0_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1710.700MHz
 Power:
 Avg: 23.11dBm
 Peak: 30.79dBm
 Crest: 7.68dB

10.0 %: 3.14dB
 1.0 %: 5.27dB
 0.1 %: 6.61dB
 0.01 %: 7.56dB



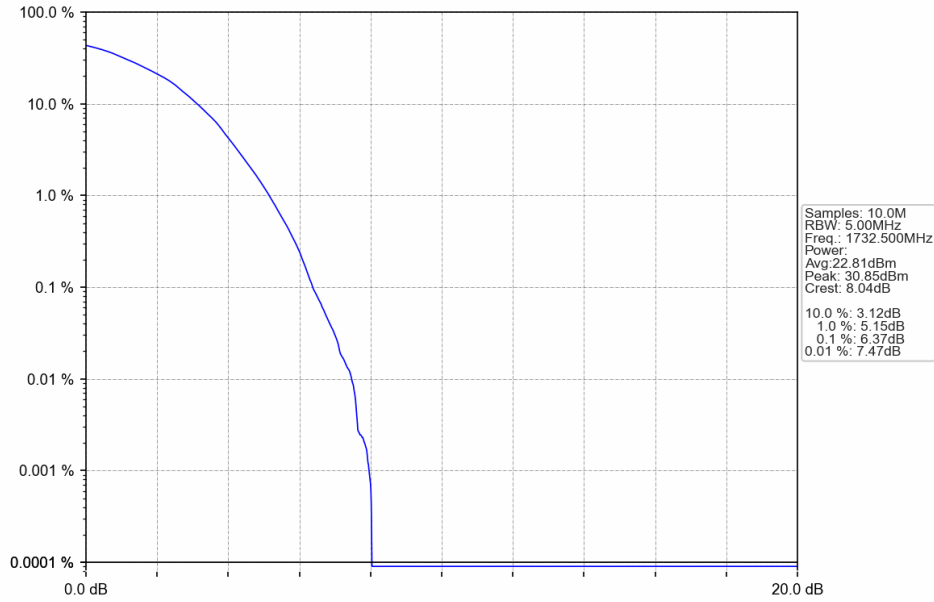
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Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_6_0_NTNV



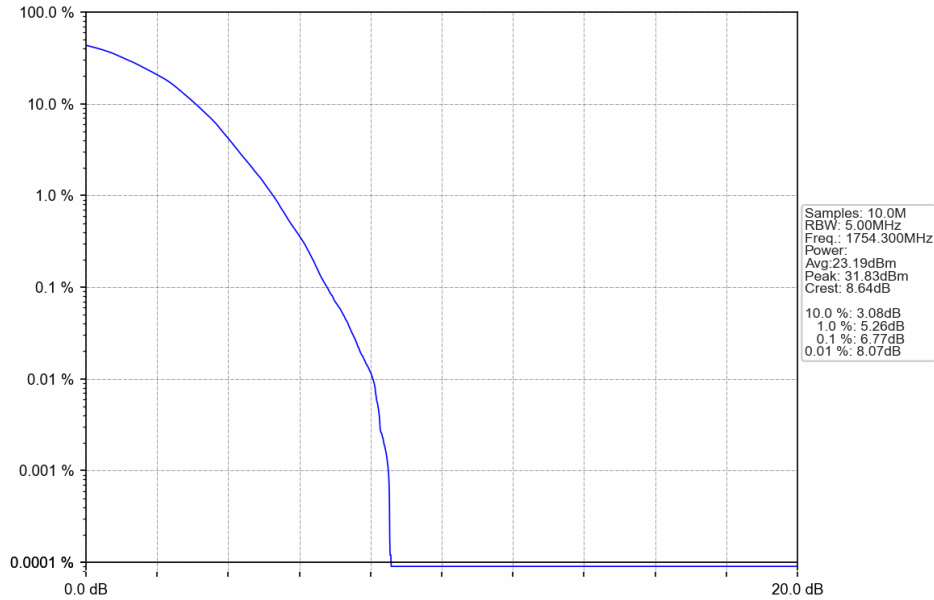
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Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_6_0_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1754.300MHz
 Power:
 Avg: 23.19dBm
 Peak: 31.83dBm
 Crest: 8.64dB

10.0 %: 3.08dB
 1.0 %: 5.26dB
 0.1 %: 6.77dB
 0.01 %: 8.07dB



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3.2 B4_3MHz

3.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.22	<=13	Pass
	1732.5	15	0	5.17	<=13	Pass
	1753.5	15	0	5.22	<=13	Pass
16QAM	1711.5	15	0	6.02	<=13	Pass
	1732.5	15	0	6.00	<=13	Pass
	1753.5	15	0	6.03	<=13	Pass
64QAM	1711.5	15	0	6.65	<=13	Pass
	1732.5	15	0	6.59	<=13	Pass
	1753.5	15	0	6.70	<=13	Pass

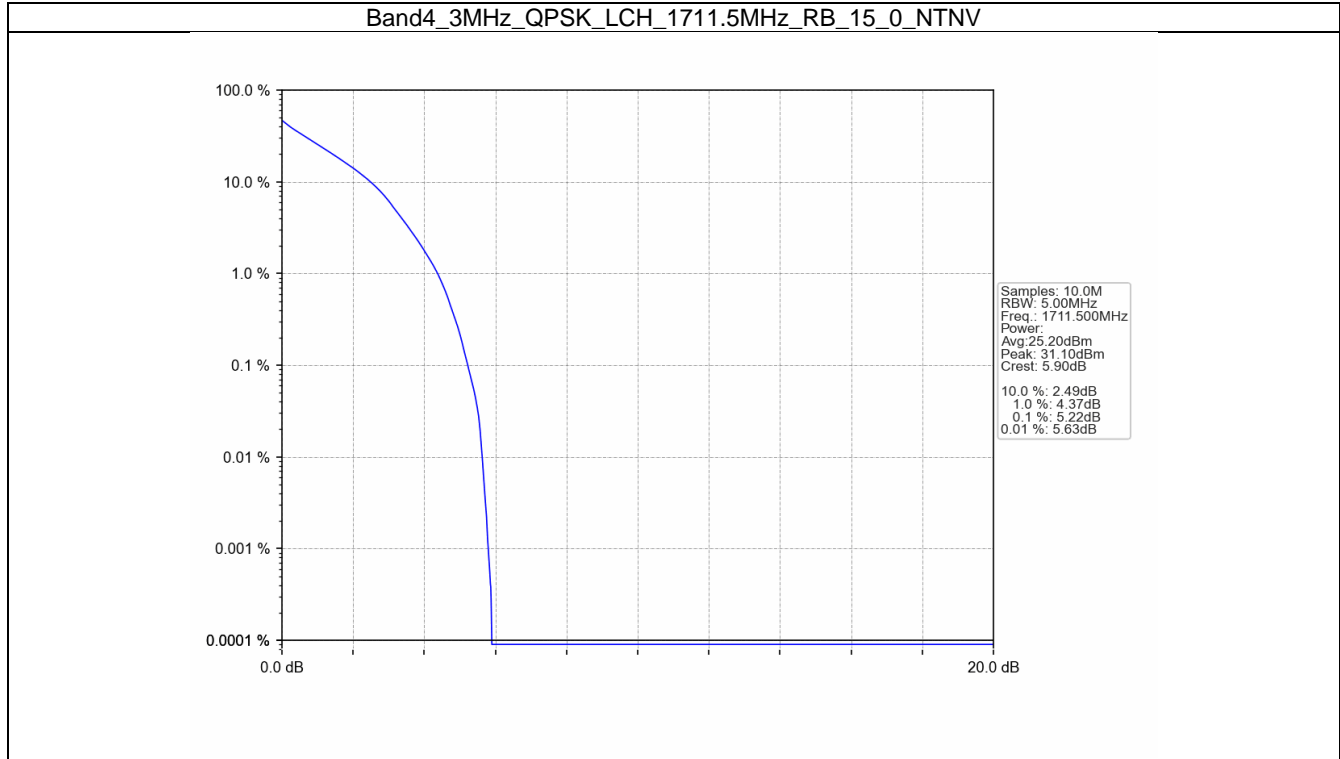


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3.2.2 Test Graph



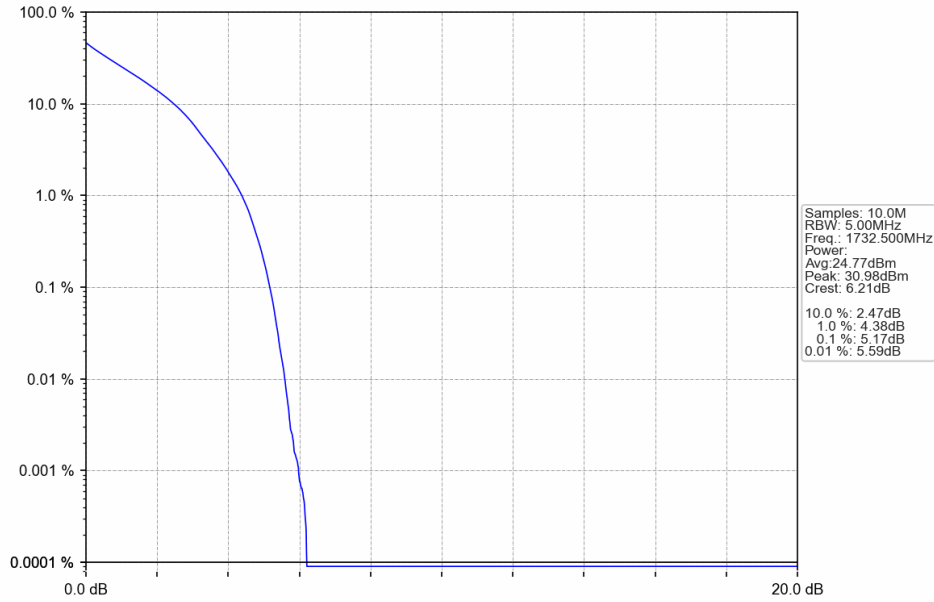
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Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



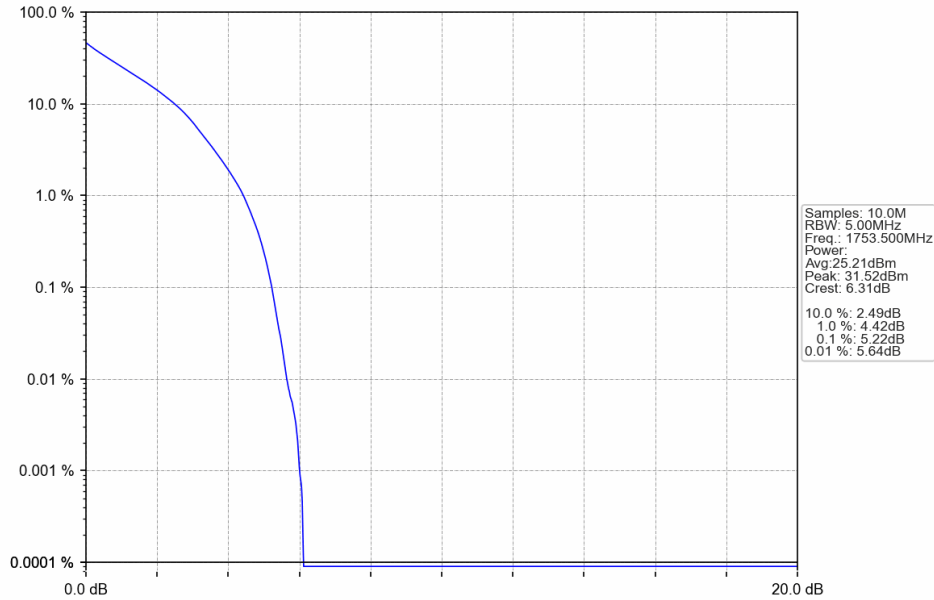
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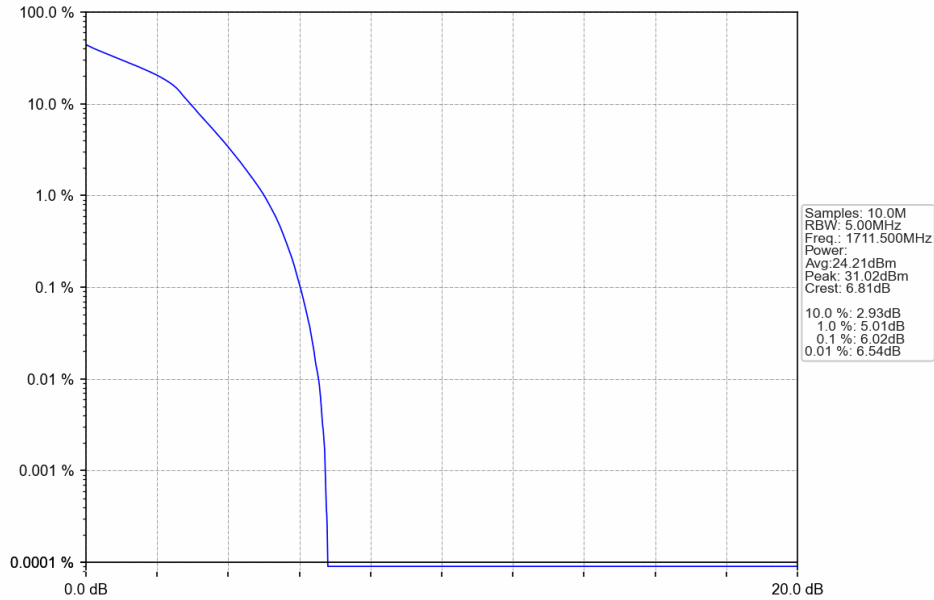
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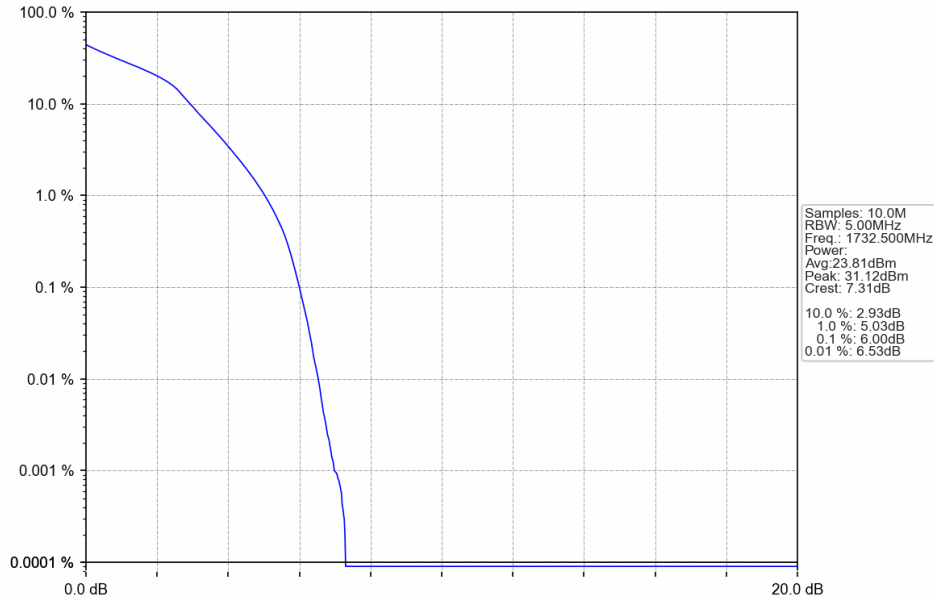
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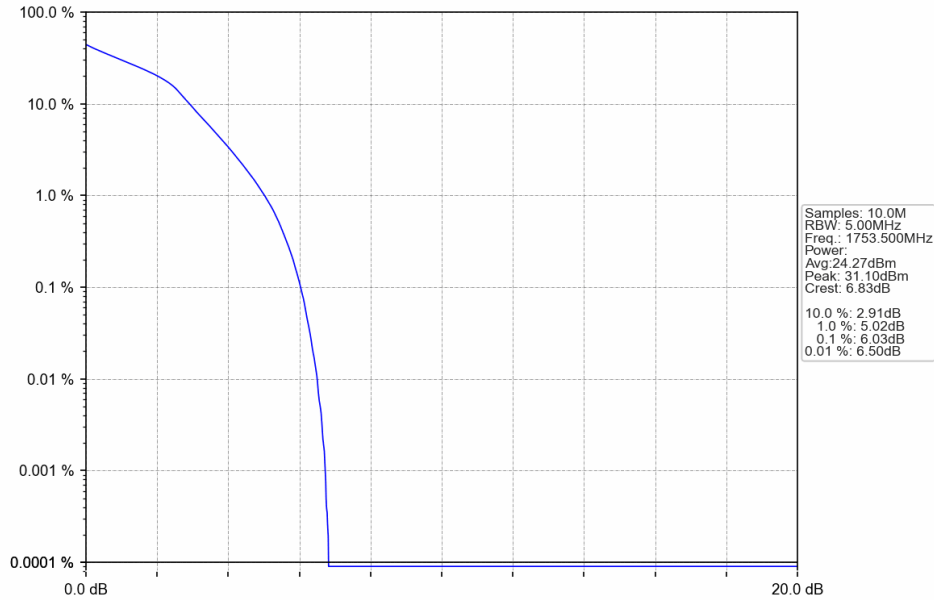
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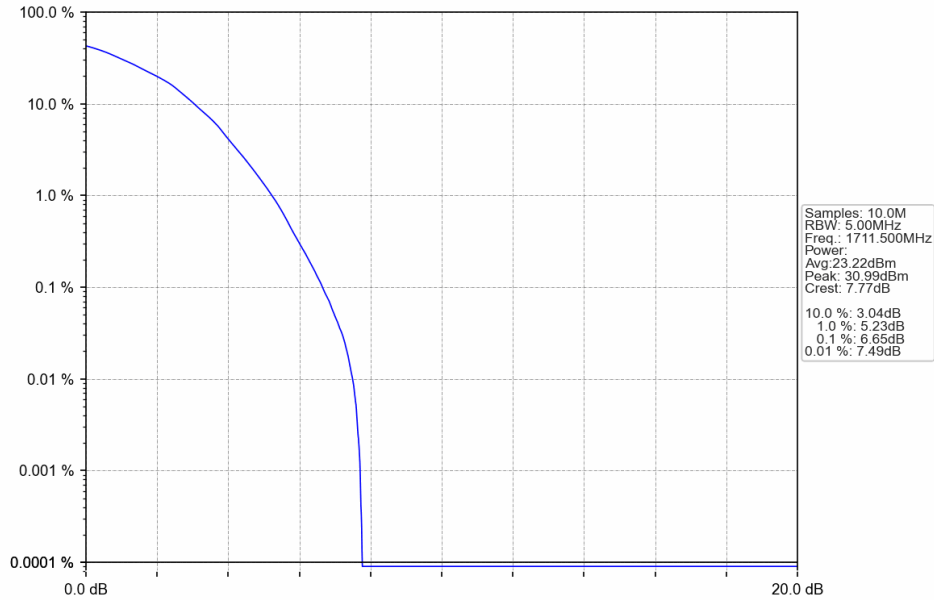
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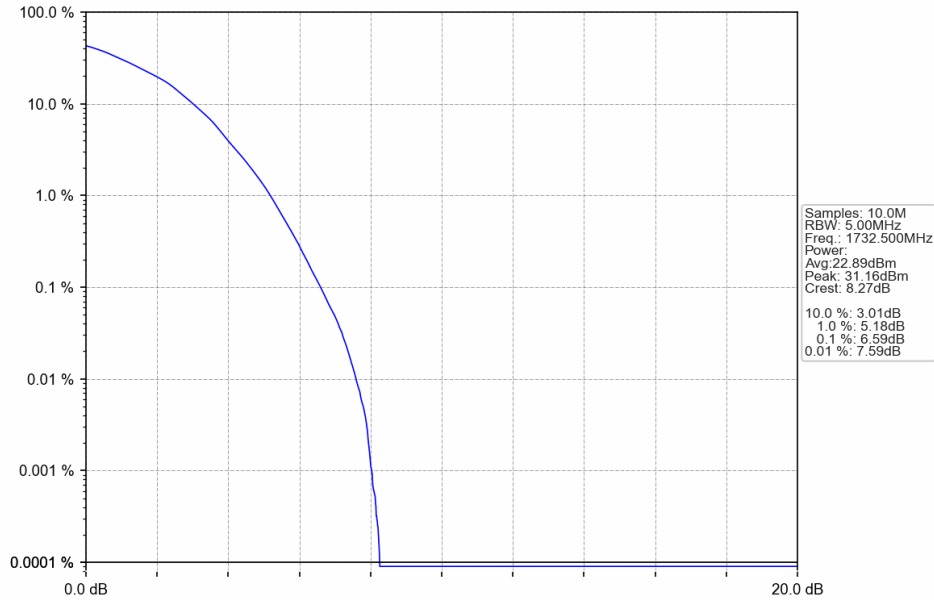
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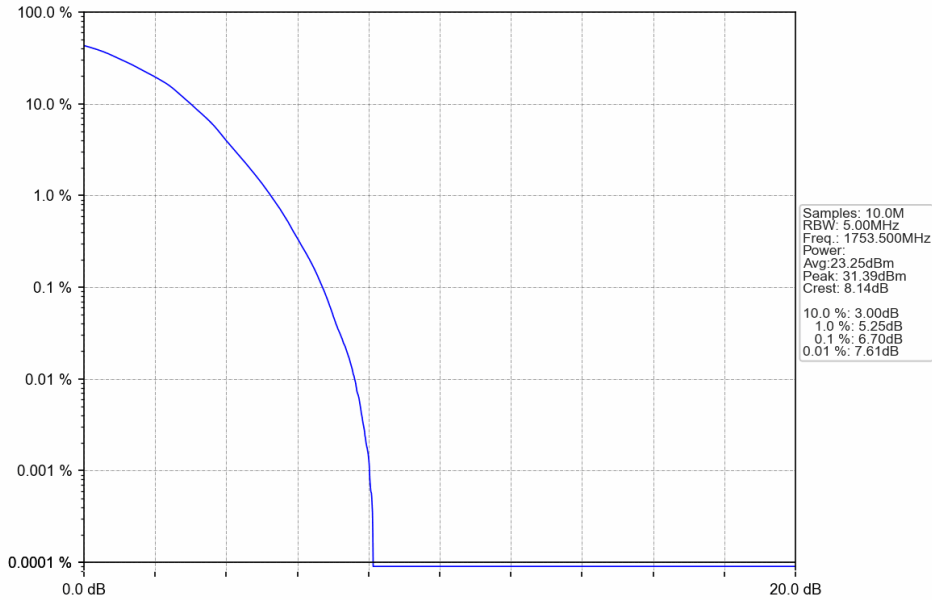
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3.3 B4_5MHz

3.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.28	<=13	Pass
	1732.5	25	0	5.29	<=13	Pass
	1752.5	25	0	5.29	<=13	Pass
16QAM	1712.5	25	0	6.04	<=13	Pass
	1732.5	25	0	6.02	<=13	Pass
	1752.5	25	0	6.00	<=13	Pass
64QAM	1712.5	25	0	6.58	<=13	Pass
	1732.5	25	0	6.55	<=13	Pass
	1752.5	25	0	6.58	<=13	Pass

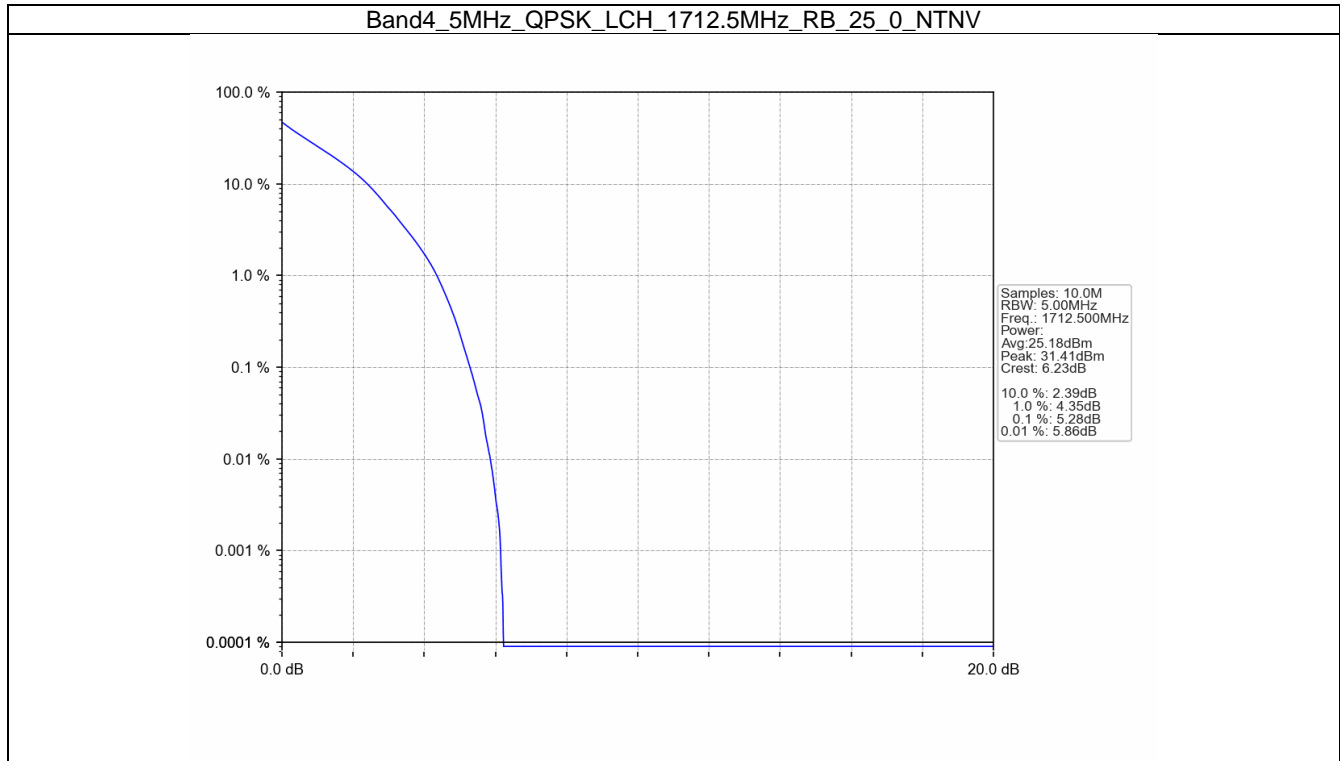


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3.3.2 Test Graph



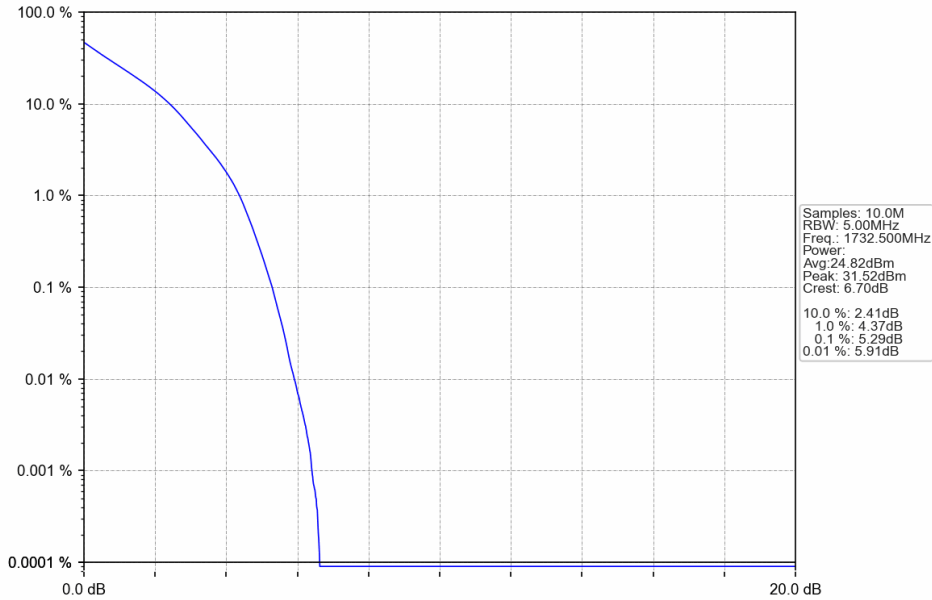
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Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



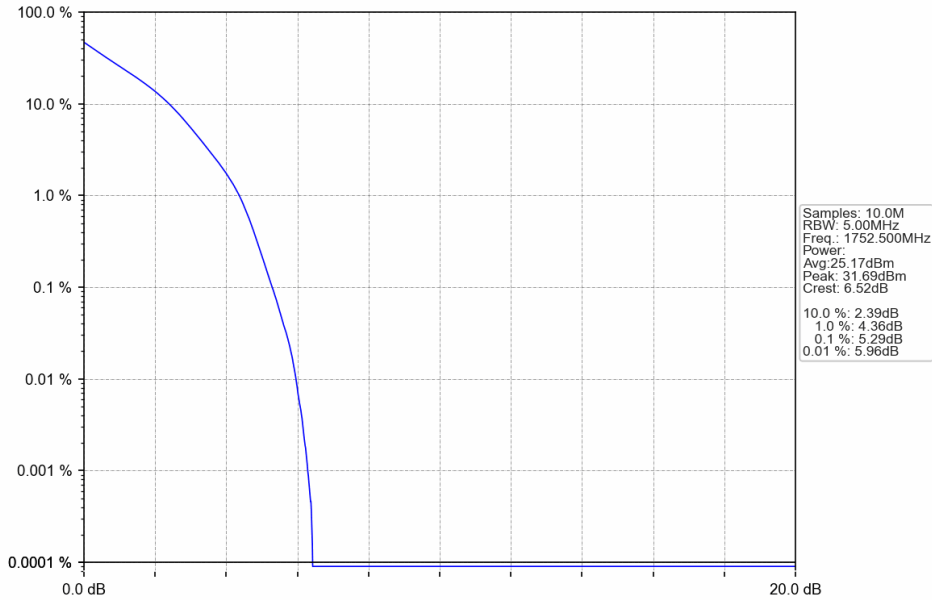
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



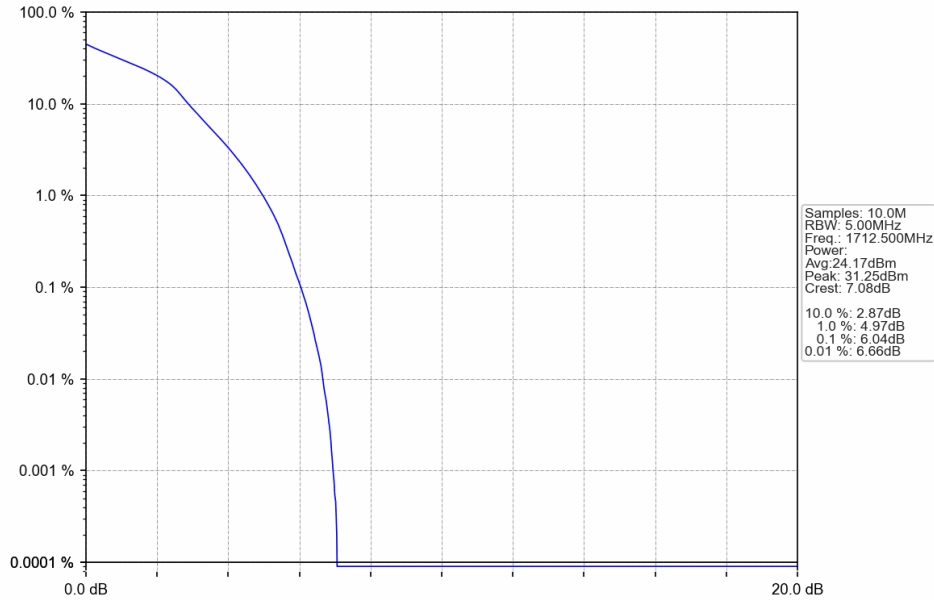
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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



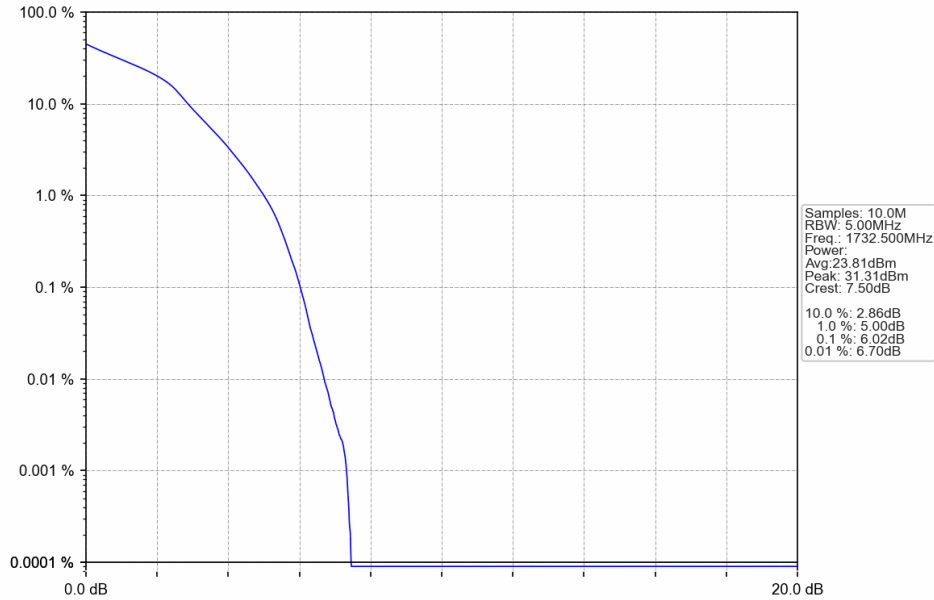
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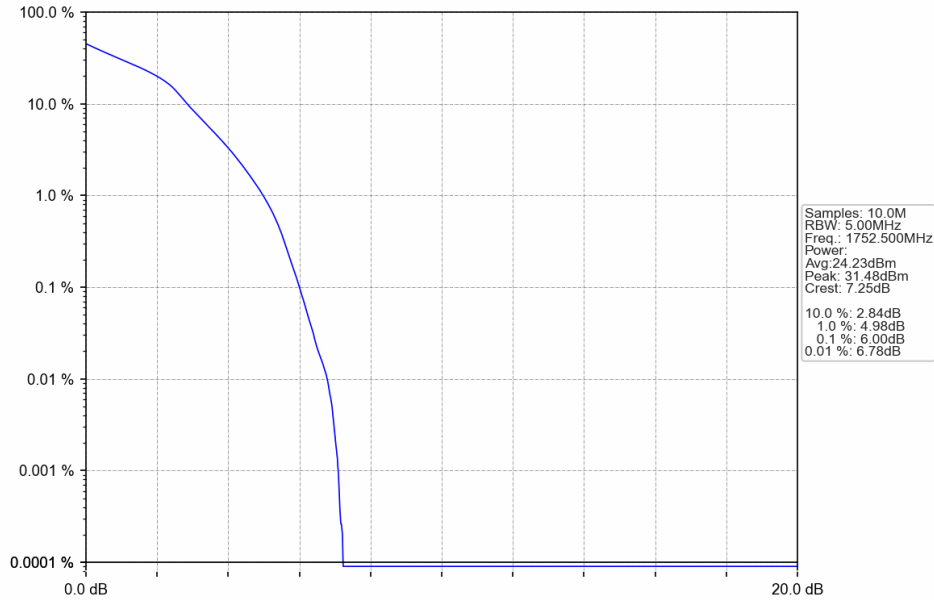
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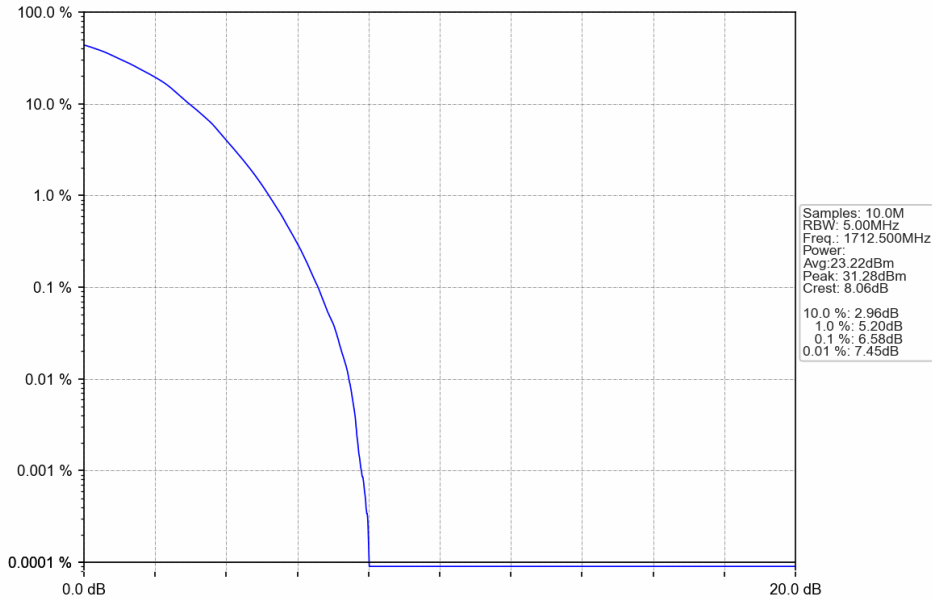
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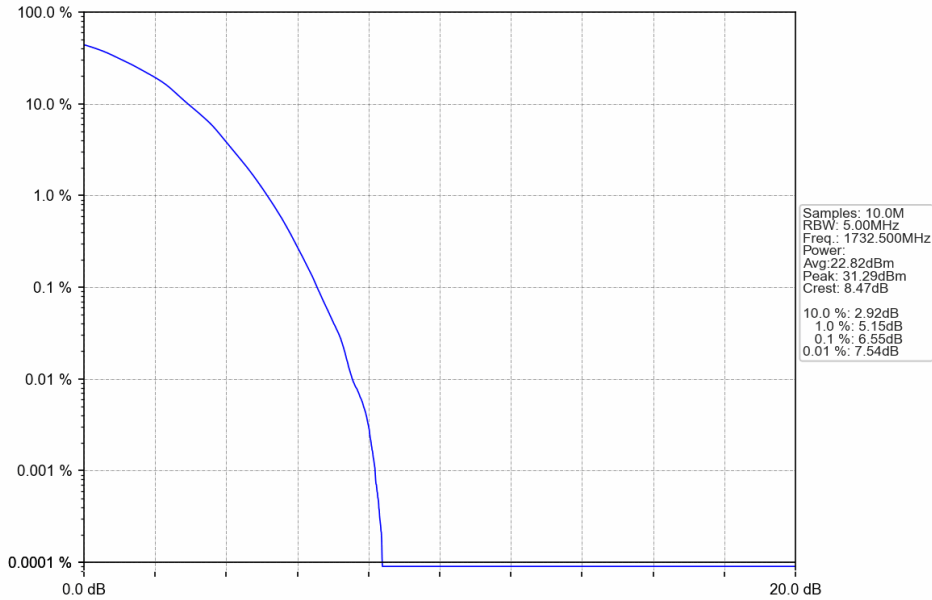
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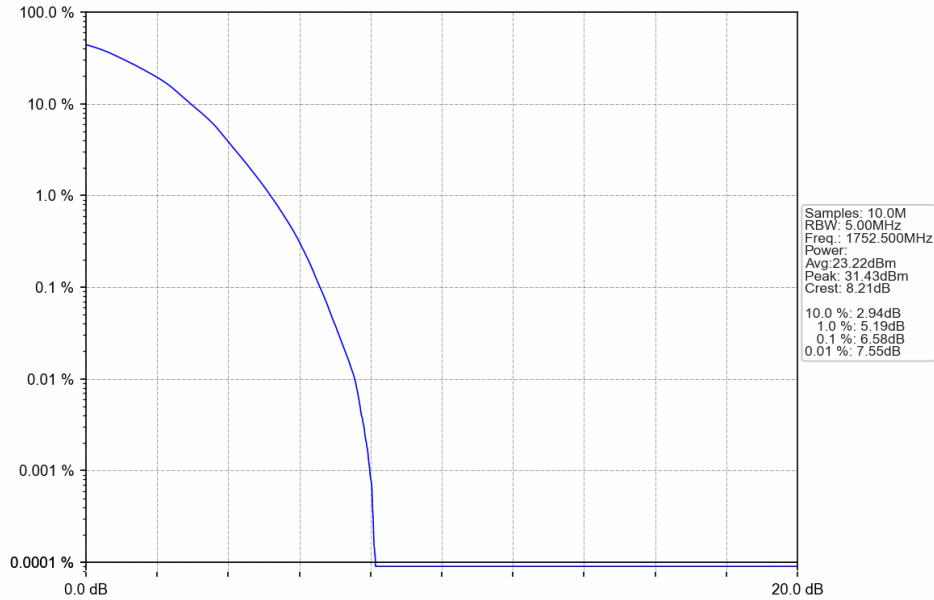
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3.4 B4_10MHz

3.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.25	<=13	Pass
	1732.5	50	0	5.22	<=13	Pass
	1750	50	0	5.21	<=13	Pass
16QAM	1715	50	0	6.02	<=13	Pass
	1732.5	50	0	6.01	<=13	Pass
	1750	50	0	5.99	<=13	Pass
64QAM	1715	50	0	6.56	<=13	Pass
	1732.5	50	0	6.59	<=13	Pass
	1750	50	0	6.54	<=13	Pass

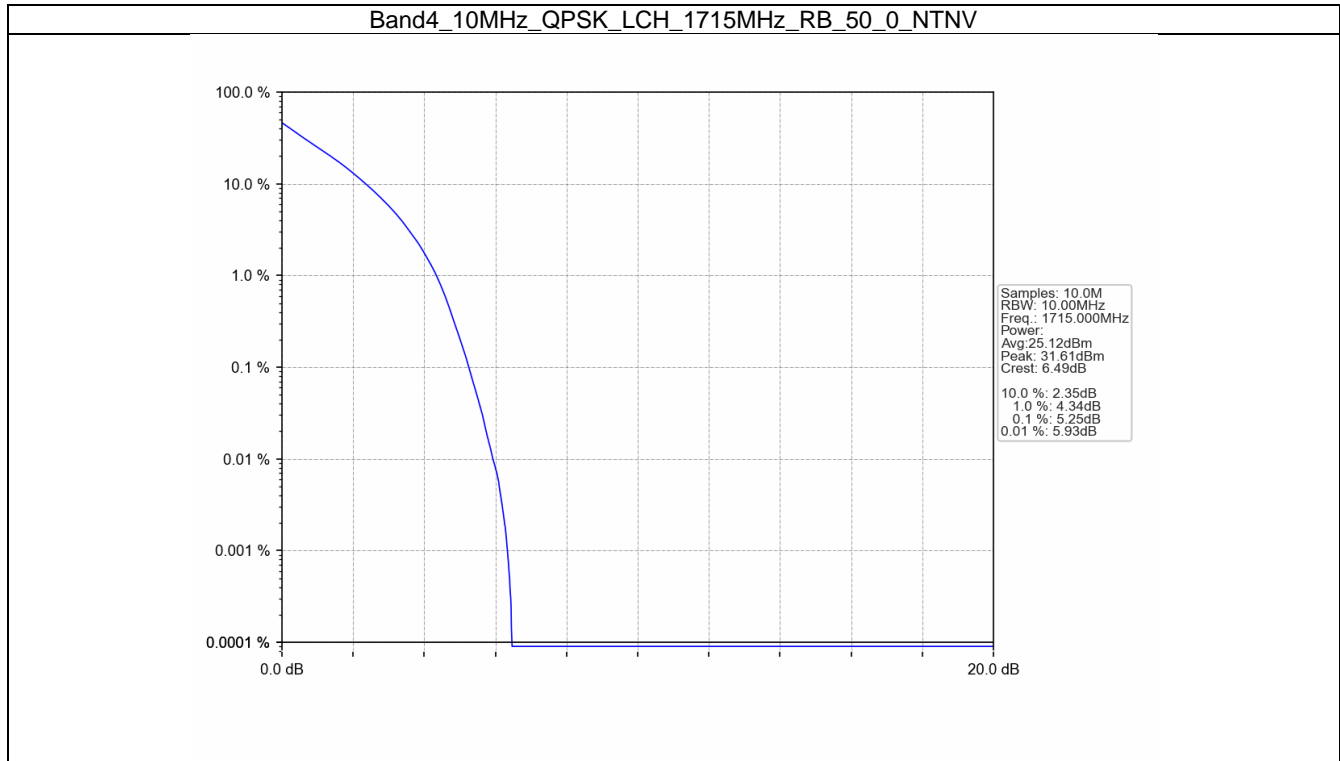


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3.4.2 Test Graph



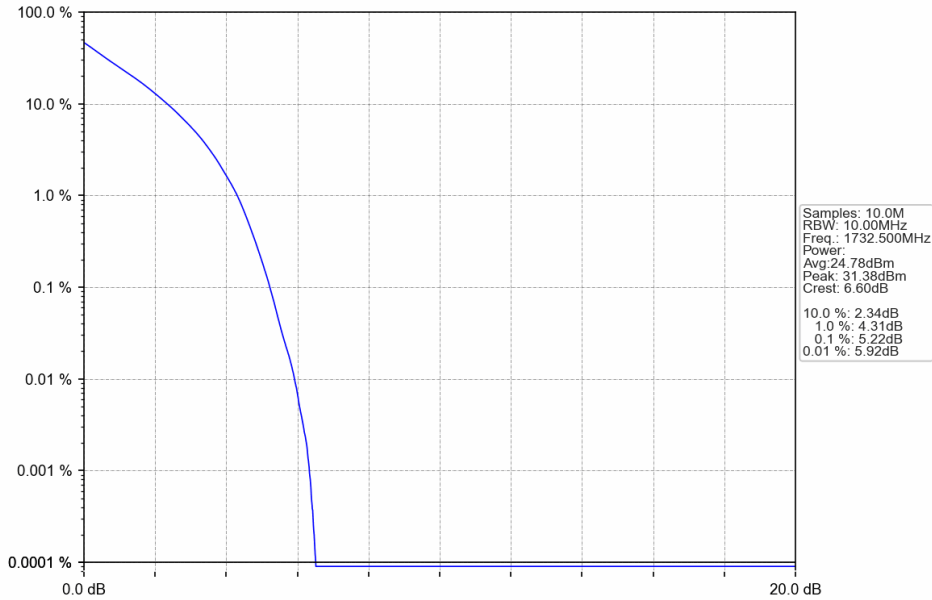
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Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



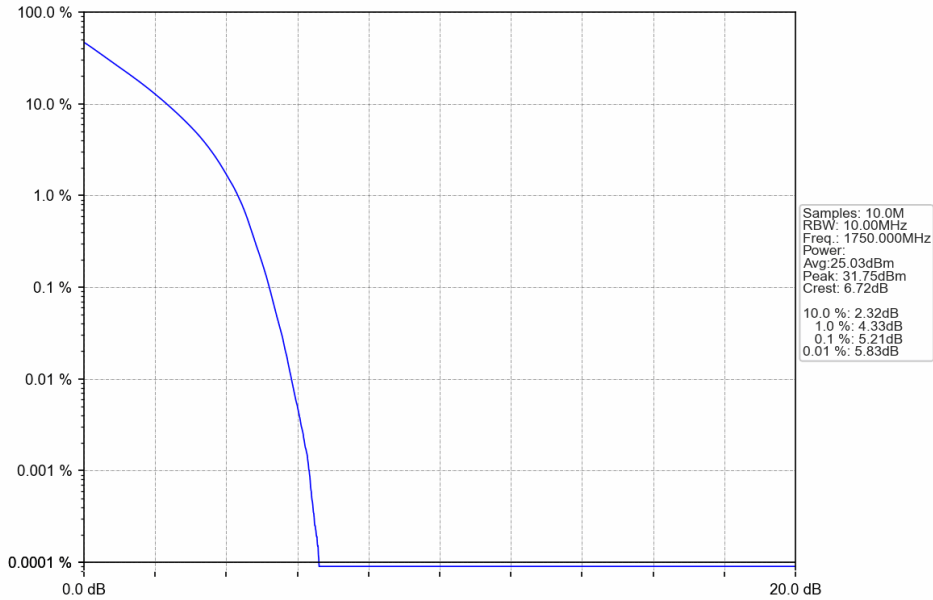
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Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



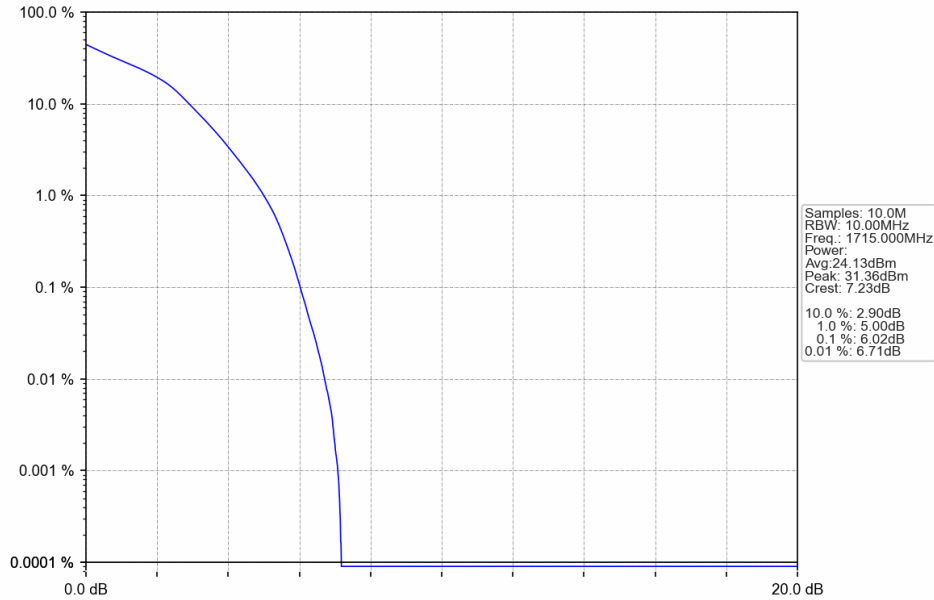
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Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

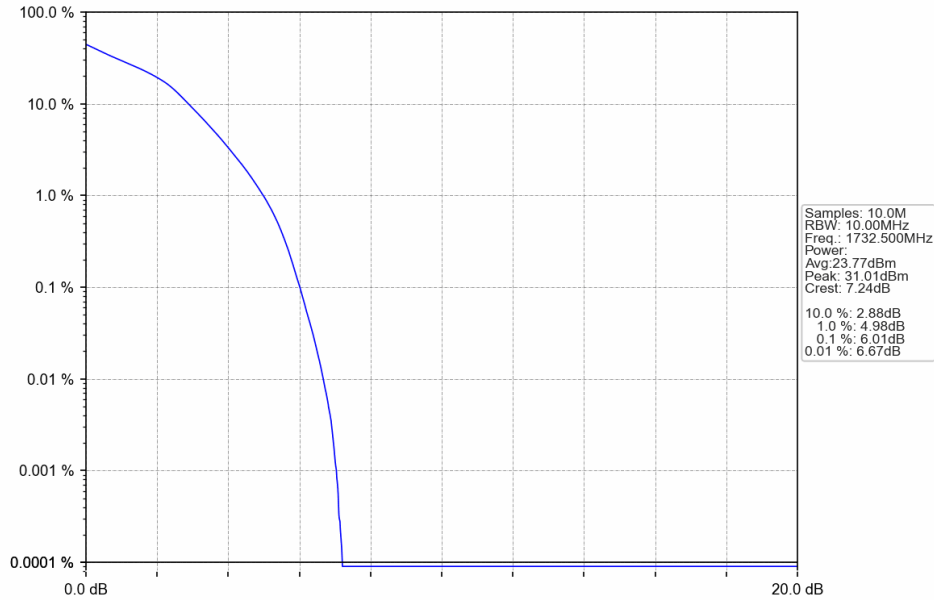


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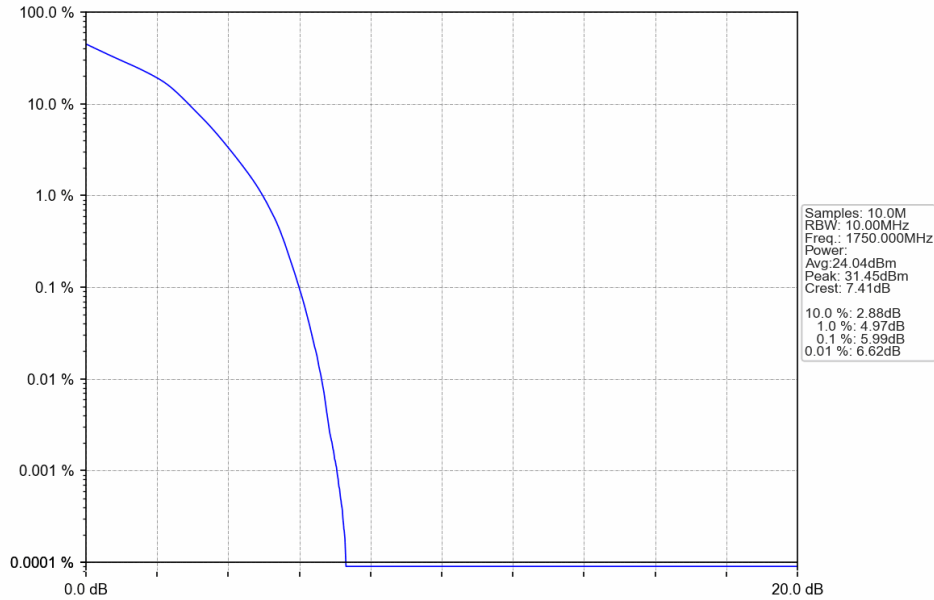
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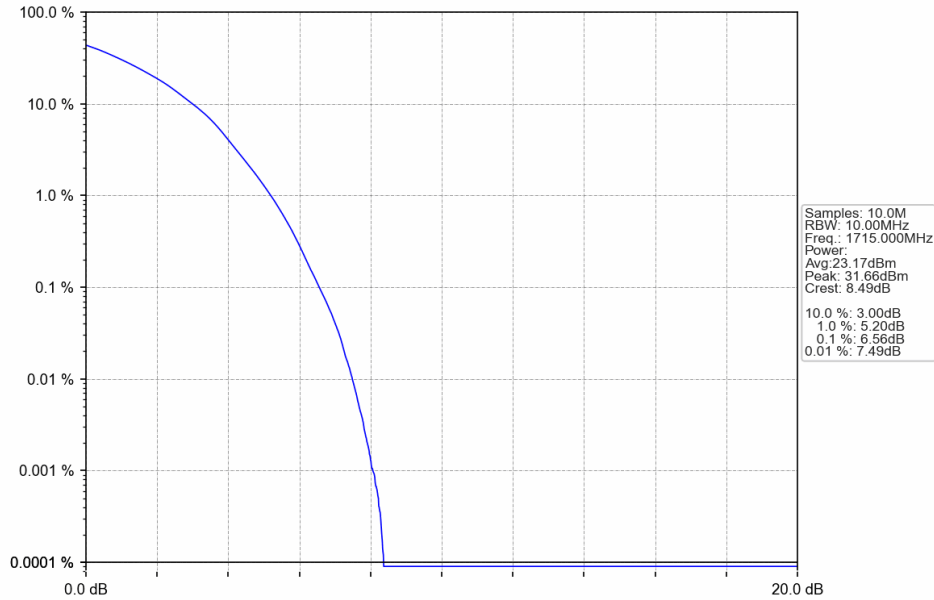
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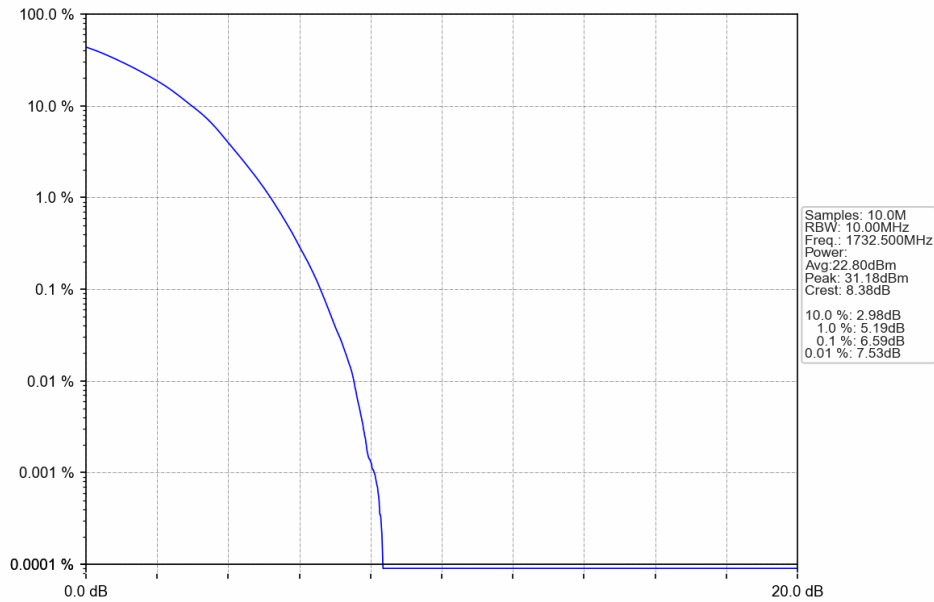
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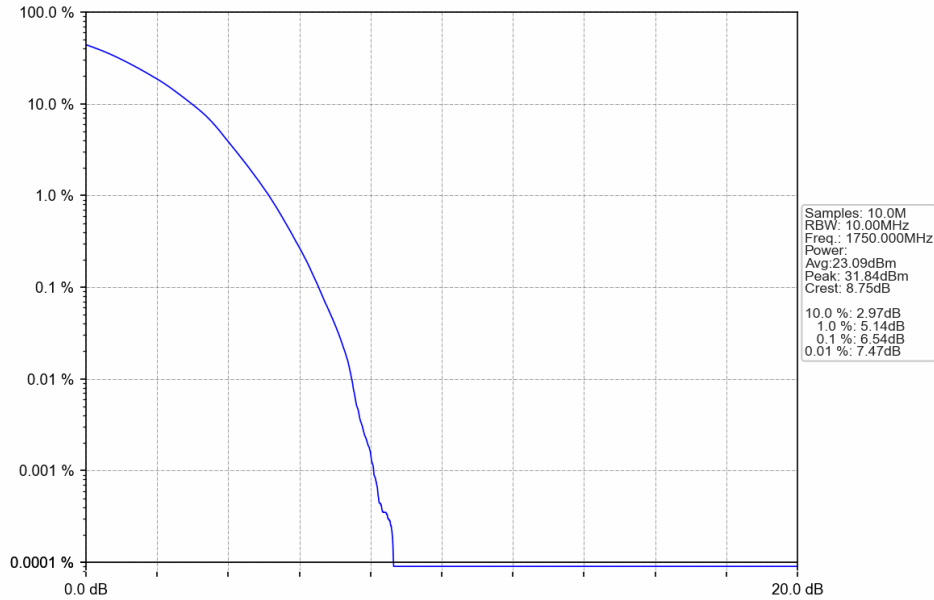
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3.5 B4_15MHz

3.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.49	<=13	Pass
	1732.5	75	0	5.50	<=13	Pass
	1747.5	75	0	5.52	<=13	Pass
16QAM	1717.5	75	0	6.10	<=13	Pass
	1732.5	75	0	6.12	<=13	Pass
	1747.5	75	0	6.12	<=13	Pass
64QAM	1717.5	75	0	6.54	<=13	Pass
	1732.5	75	0	6.57	<=13	Pass
	1747.5	75	0	6.64	<=13	Pass

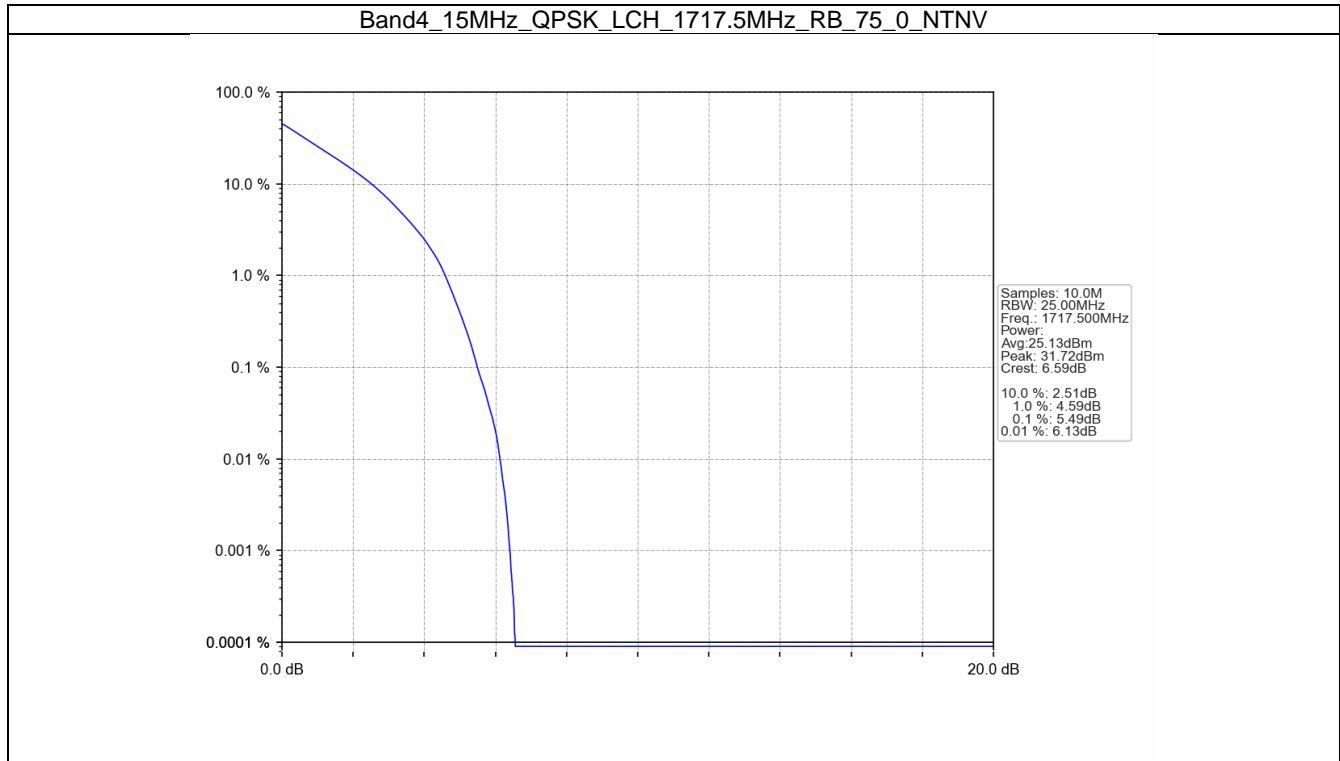


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3.5.2 Test Graph



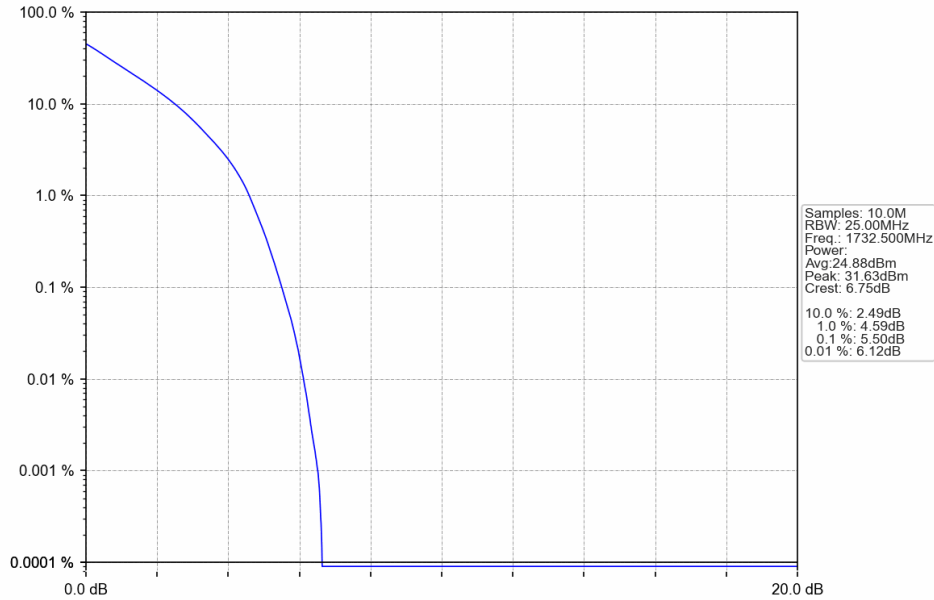
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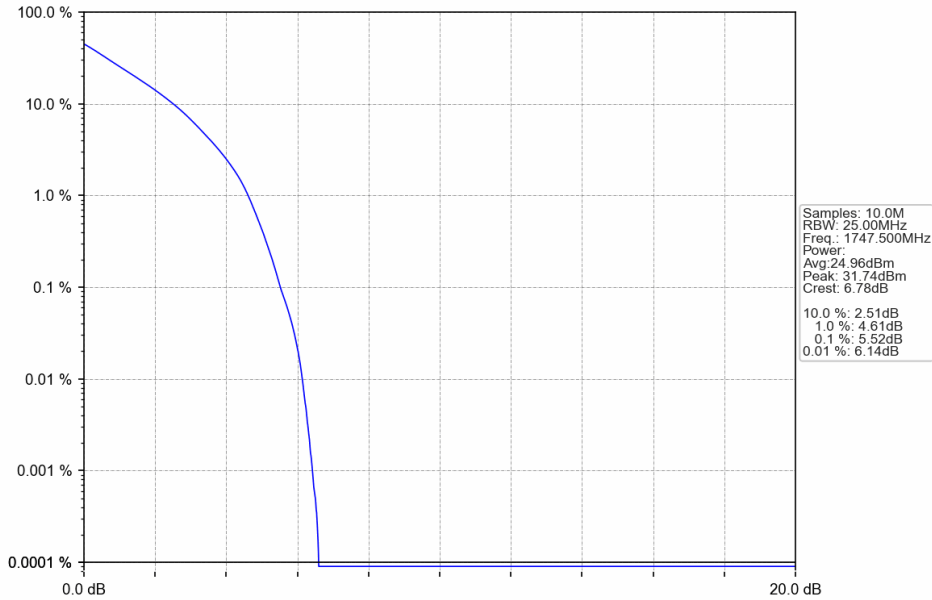
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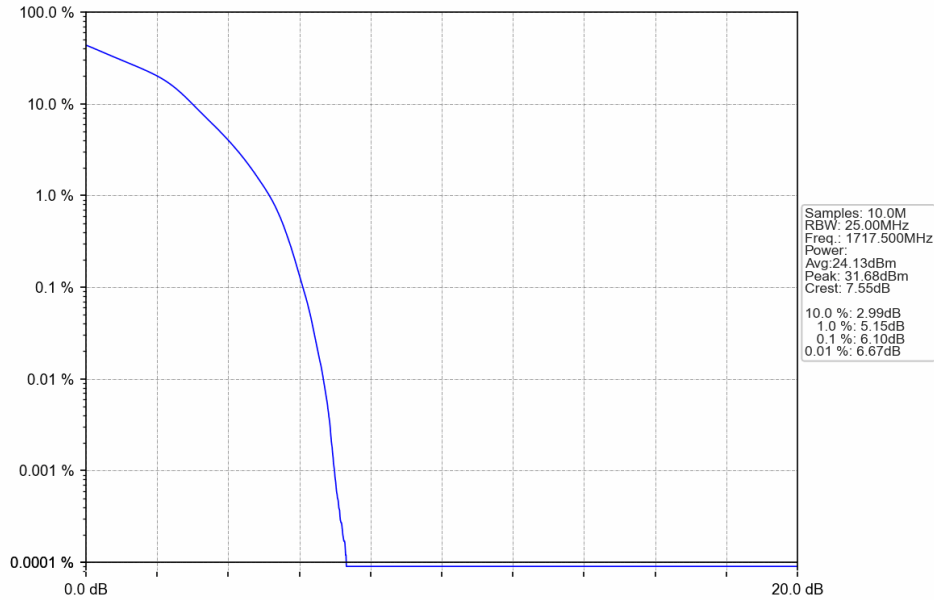
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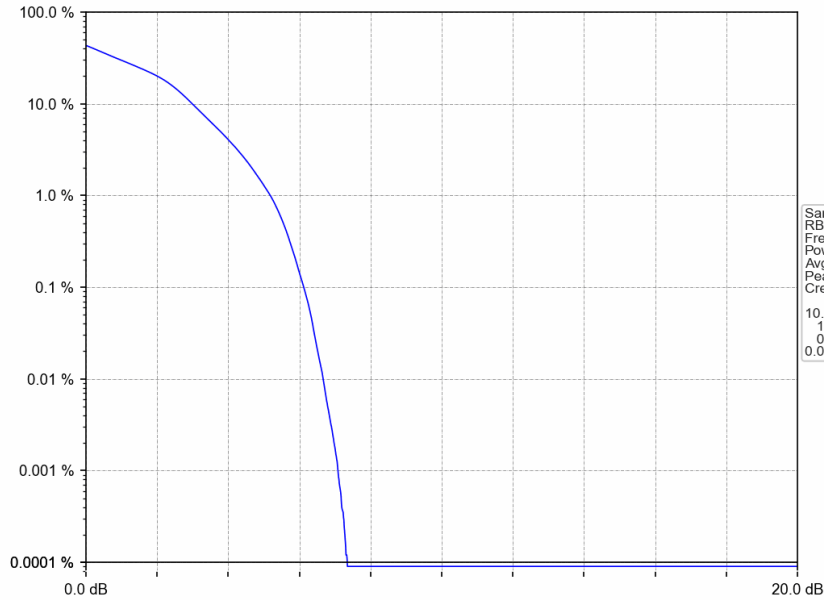


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Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 1732.500MHz
 Power:
 Avg: 23.90dBm
 Peak: 31.44dBm
 Crest: 7.54dB

10.0 %: 2.99dB
 1.0 %: 5.18dB
 0.1 %: 6.12dB
 0.01 %: 6.67dB



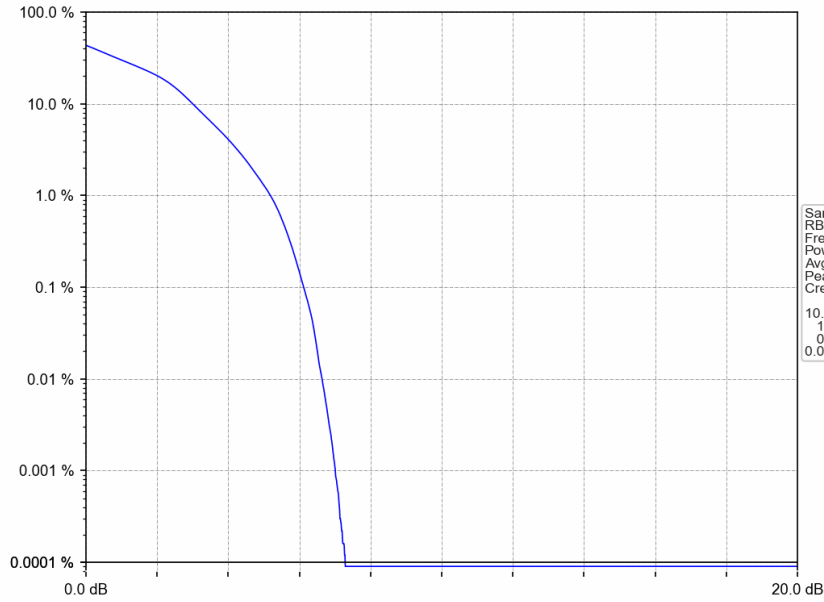
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Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 1747.500MHz
 Power:
 Avg: 24.01dBm
 Peak: 31.47dBm
 Crest: 7.46dB

10.0 %: 3.00dB
 1.0 %: 5.19dB
 0.1 %: 6.12dB
 0.01 %: 6.64dB



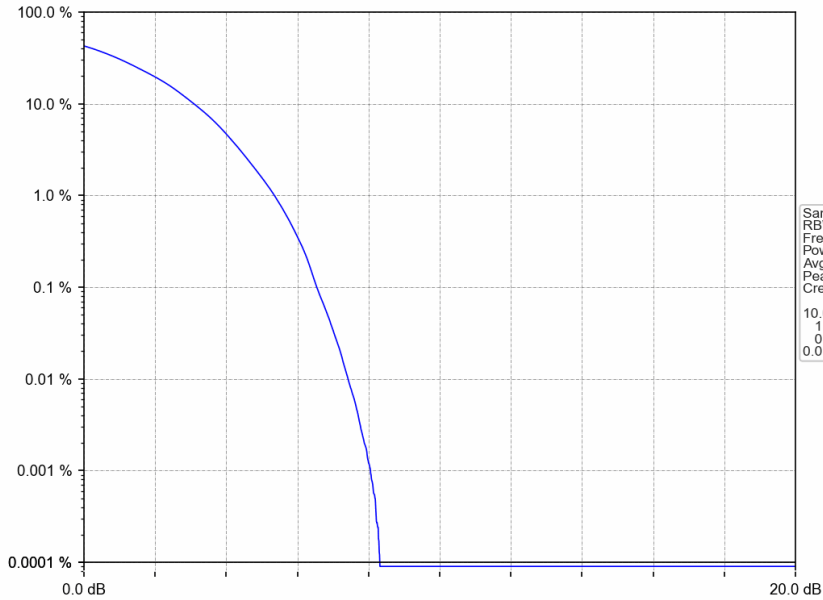
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Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV



Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 1717.500MHz
 Power:
 Avg: 23.18dBm
 Peak: 31.64dBm
 Crest: 8.46dB



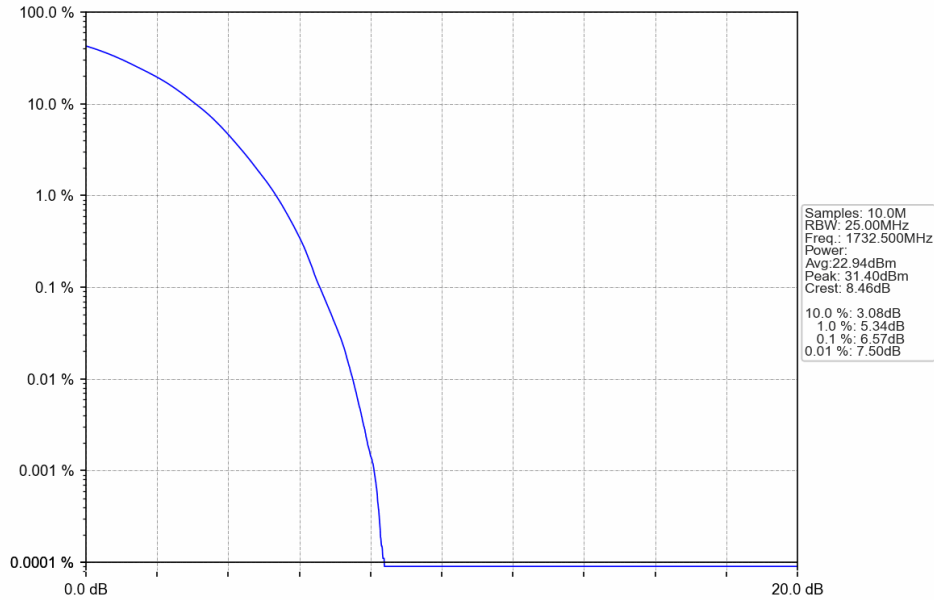
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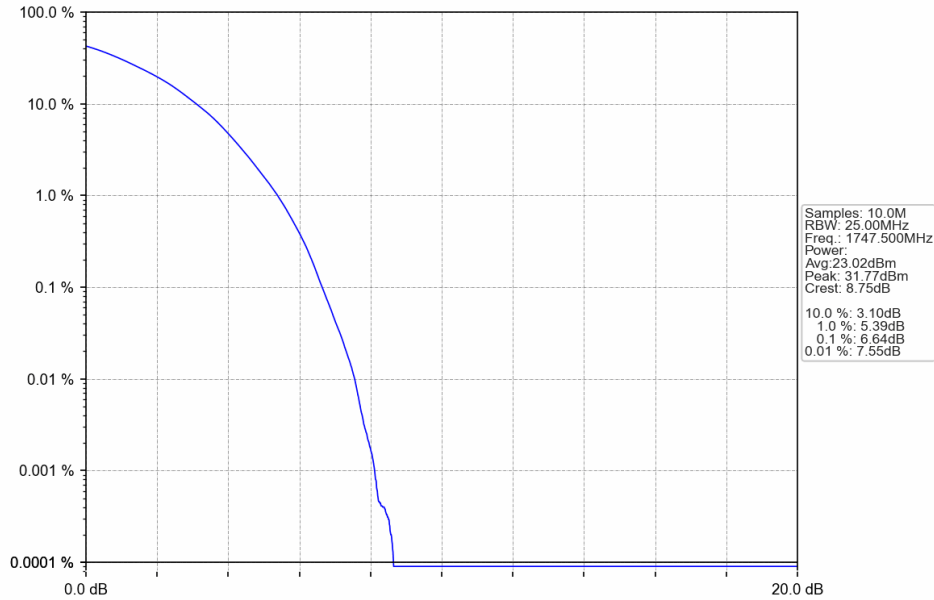
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3.6 B4_20MHz

3.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.04	<=13	Pass
	1732.5	100	0	5.23	<=13	Pass
	1745	100	0	5.35	<=13	Pass
16QAM	1720	100	0	5.93	<=13	Pass
	1732.5	100	0	6.03	<=13	Pass
	1745	100	0	6.11	<=13	Pass
64QAM	1720	100	0	6.55	<=13	Pass
	1732.5	100	0	6.59	<=13	Pass
	1745	100	0	6.66	<=13	Pass

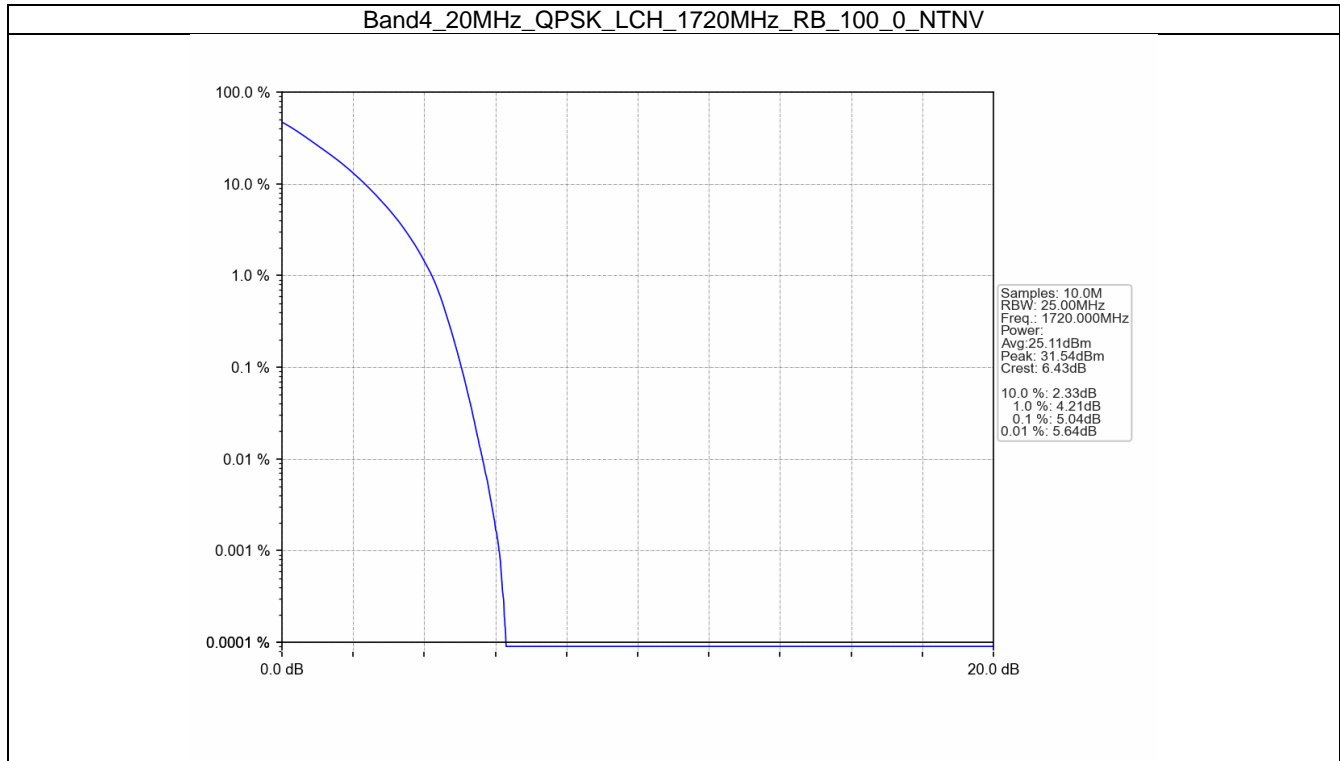


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3.6.2 Test Graph

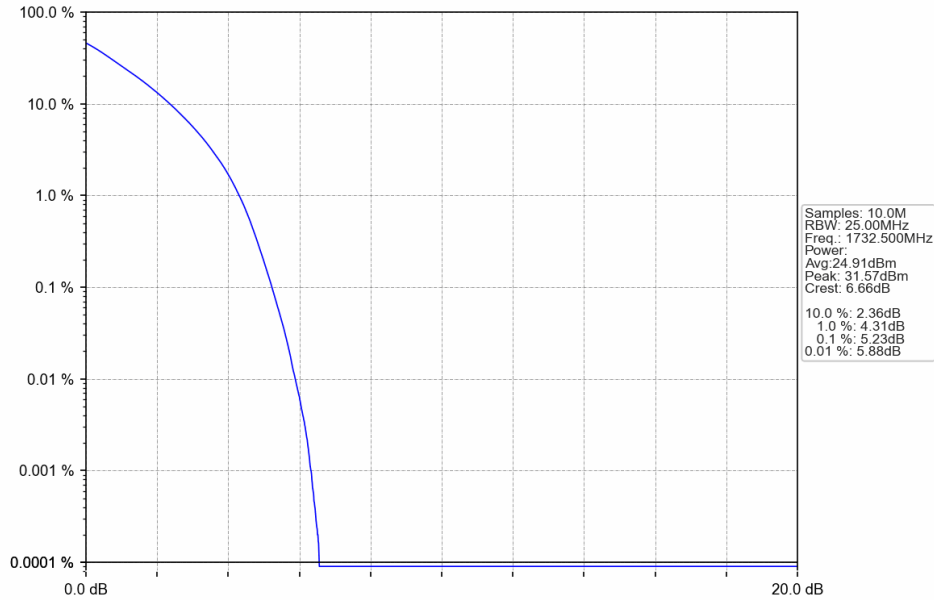


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Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



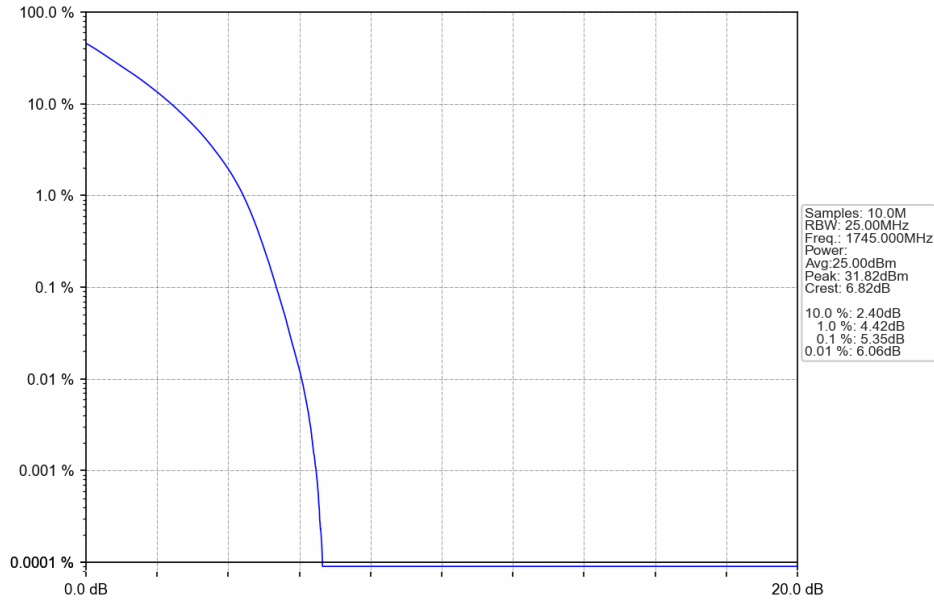
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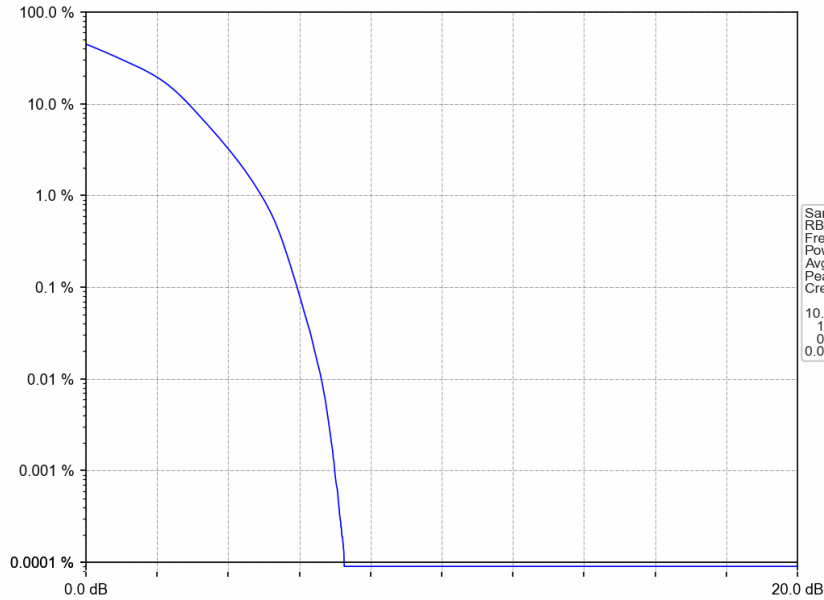
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Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 1720.000MHz
 Power:
 Avg: 24.08dBm
 Peak: 31.50dBm
 Crest: 7.42dB

10.0 %: 2.88dB
 1.0 %: 4.93dB
 0.1 %: 5.93dB
 0.01 %: 6.61dB



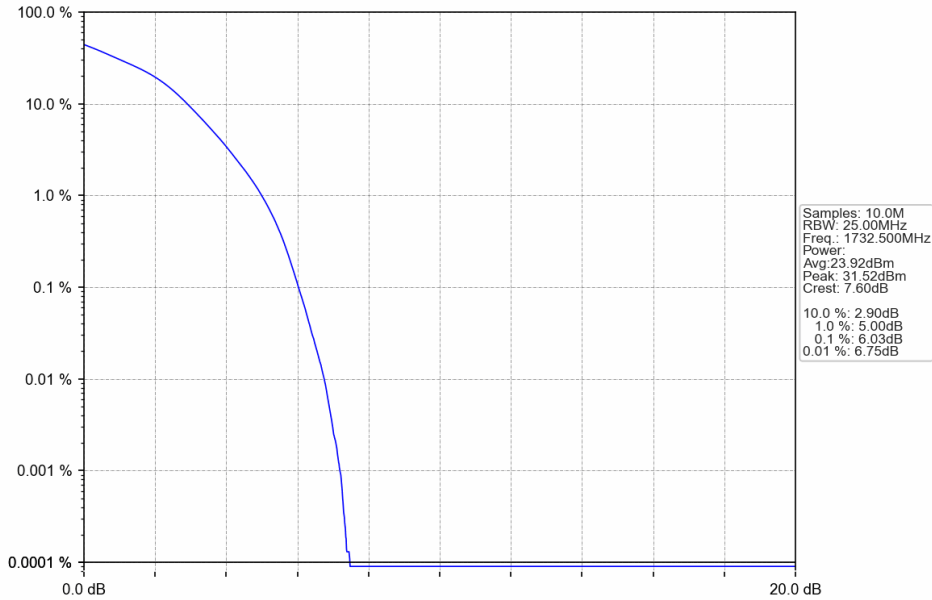
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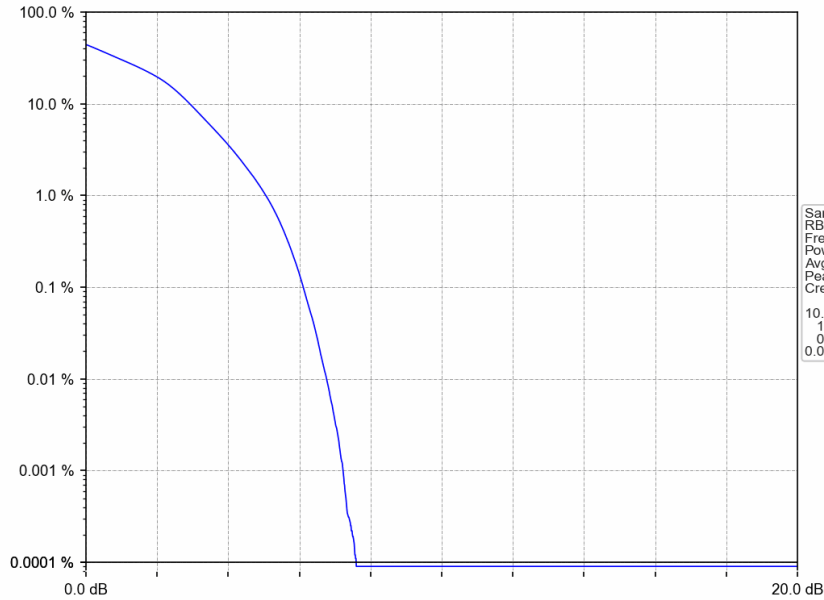


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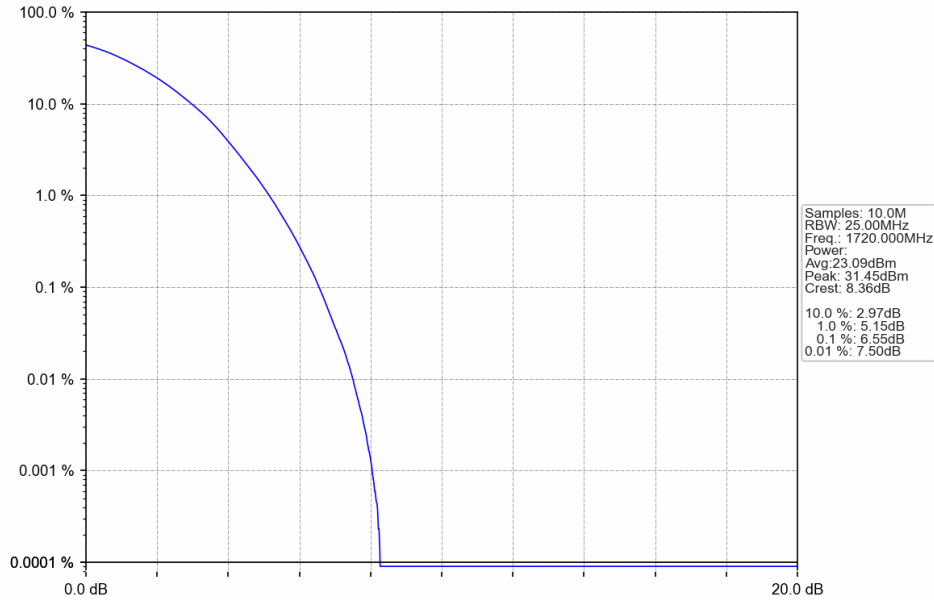
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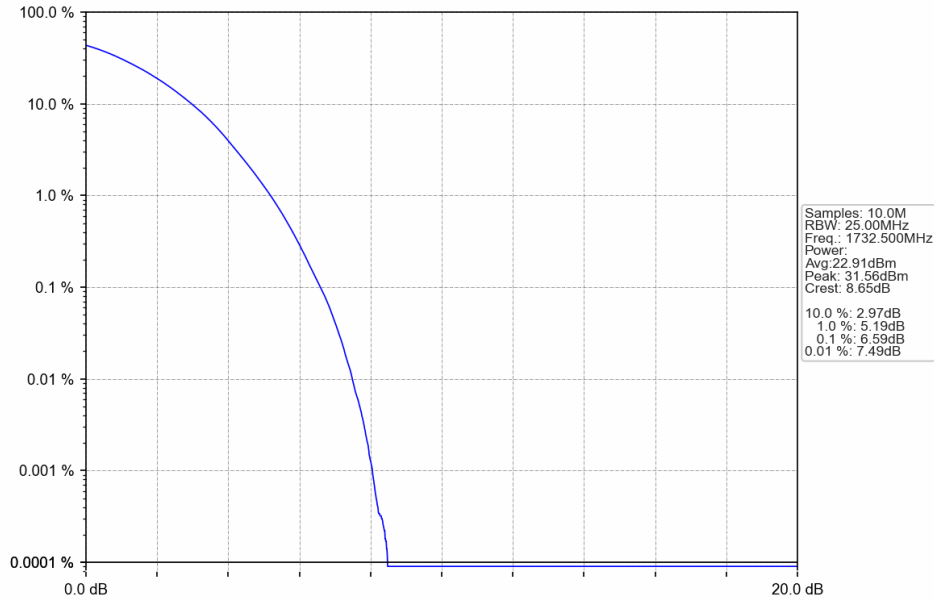
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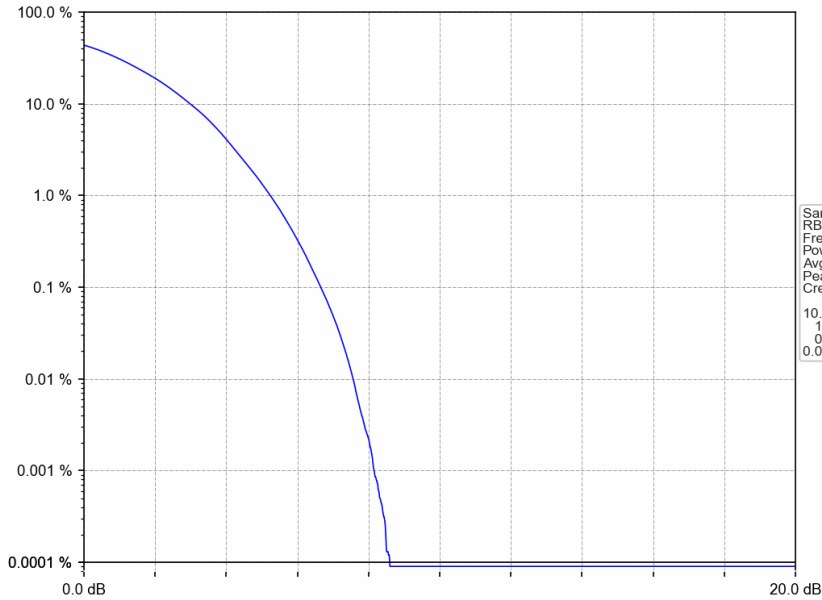


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Band4_20MHz_64QAM_HCH_1745MHz_RB_100_0_NTNV



Samples: 10.0M
 RBW: 25.00MHz
 Freq.: 1745.000MHz
 Power:
 Avg: 23.00dBm
 Peak: 31.77dBm
 Crest: 8.77dB

10.0 %: 2.98dB
 1.0 %: 5.24dB
 0.1 %: 6.66dB
 0.01 %: 7.57dB



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4. Spurious Emission & Band Edges

4.1 B4_1.4MHz

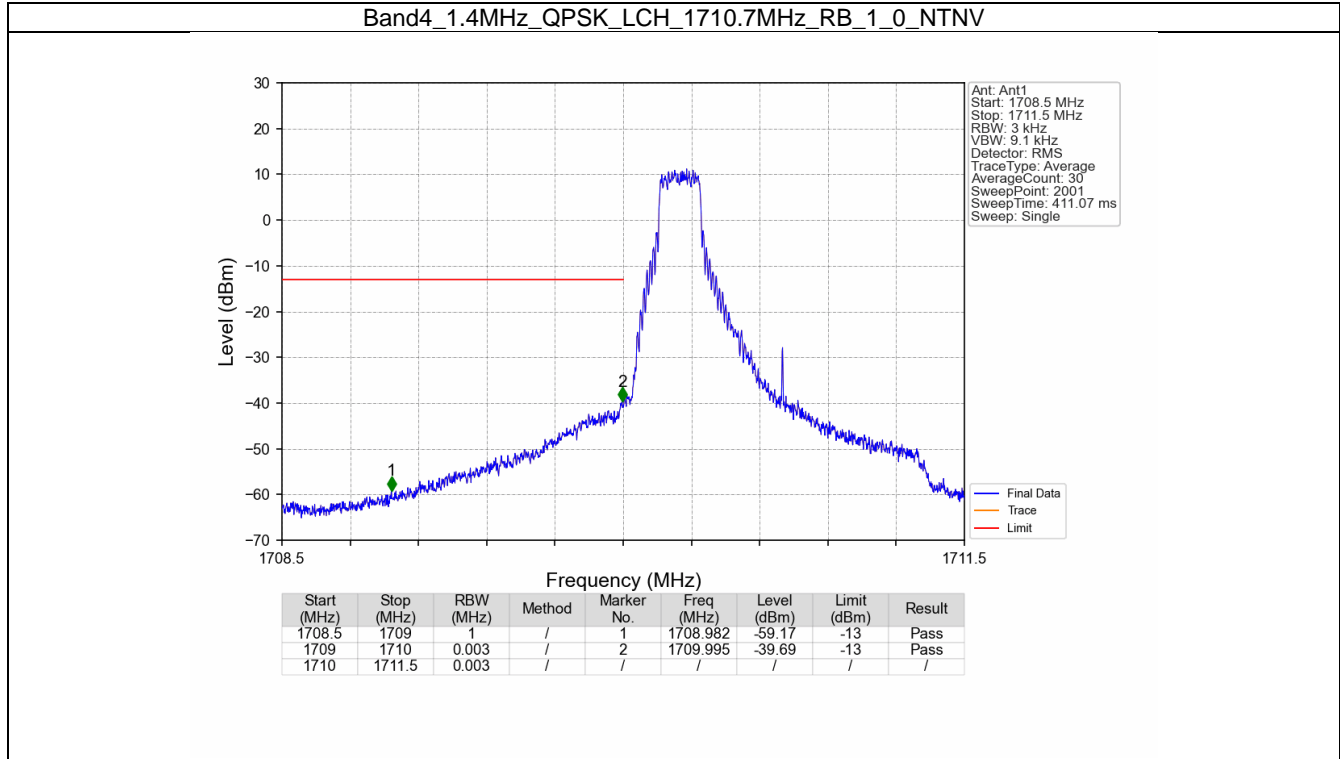
4.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
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
	1732.5	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass
16QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass
64QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass



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4.1.2 Test Graph



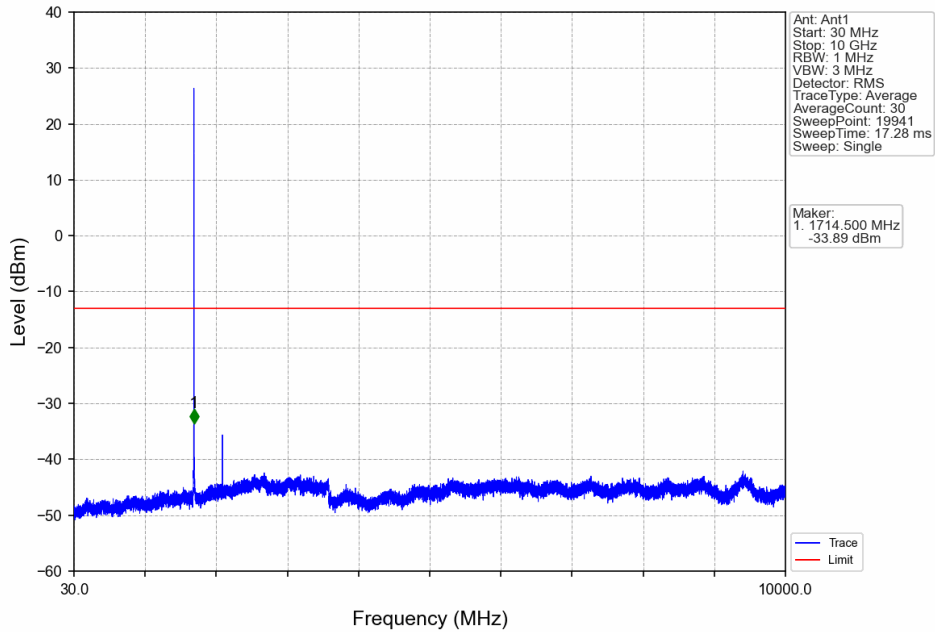
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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



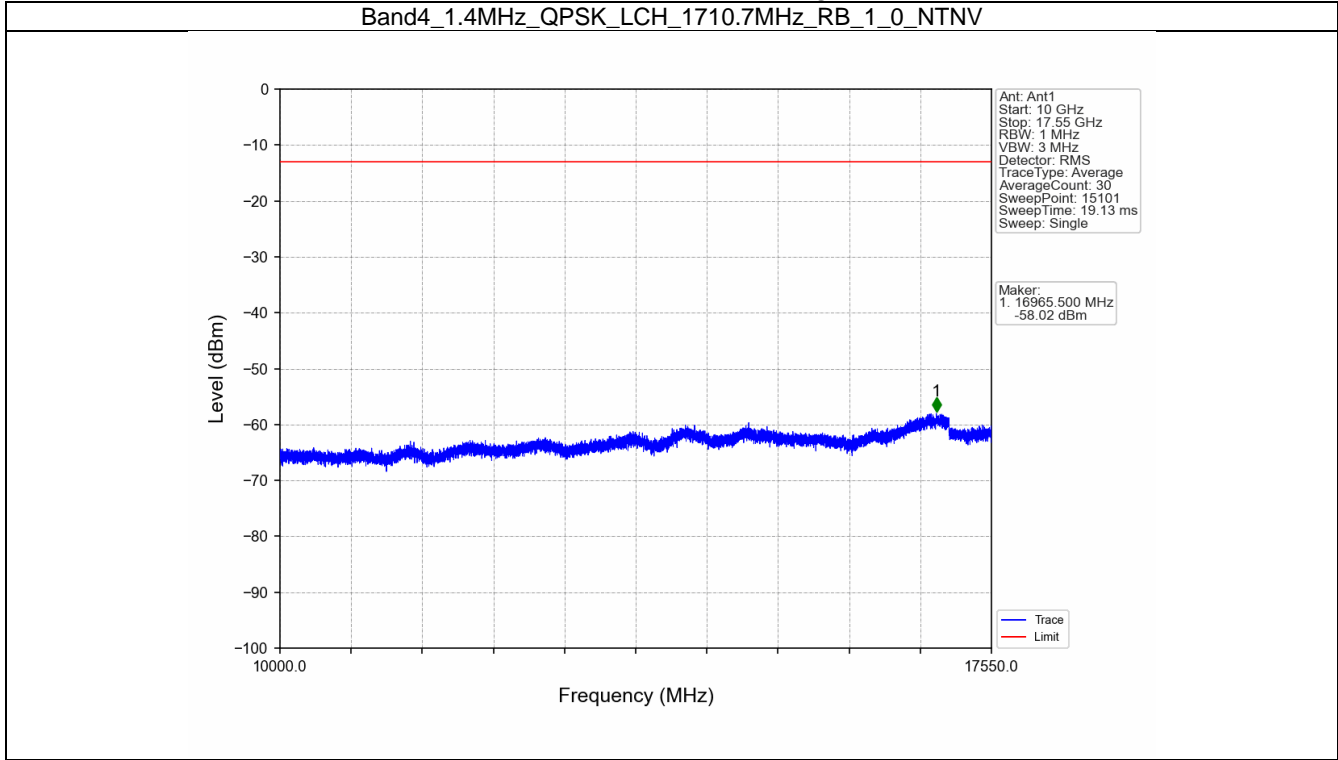
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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

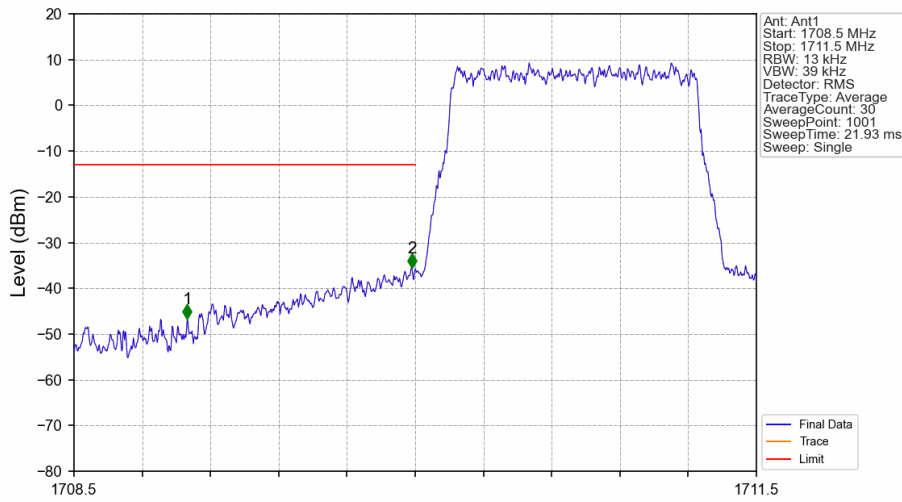


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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.998	-46.69	-13	Pass
1709	1710	0.013	/	2	1709.985	-35.53	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



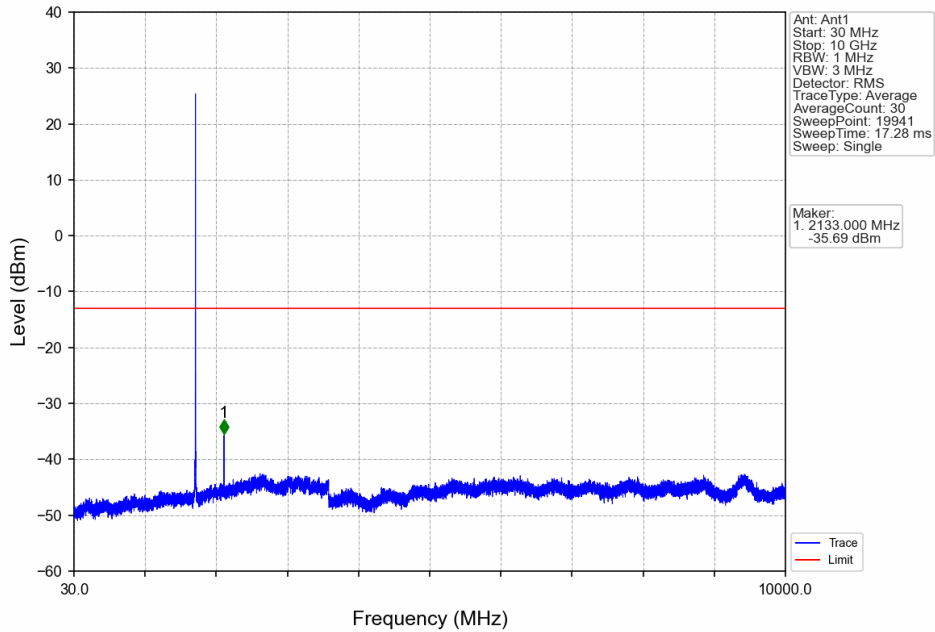
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



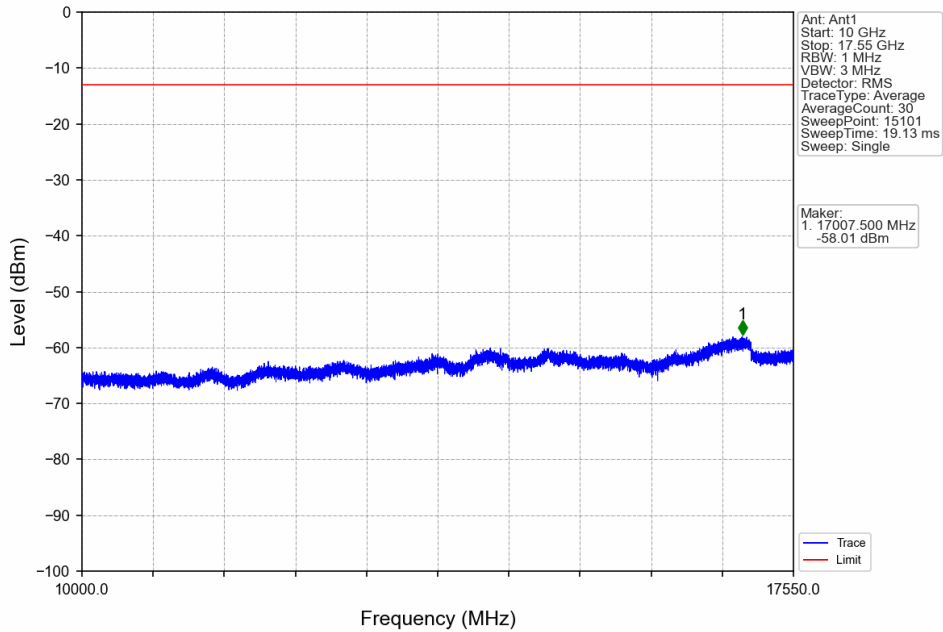
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



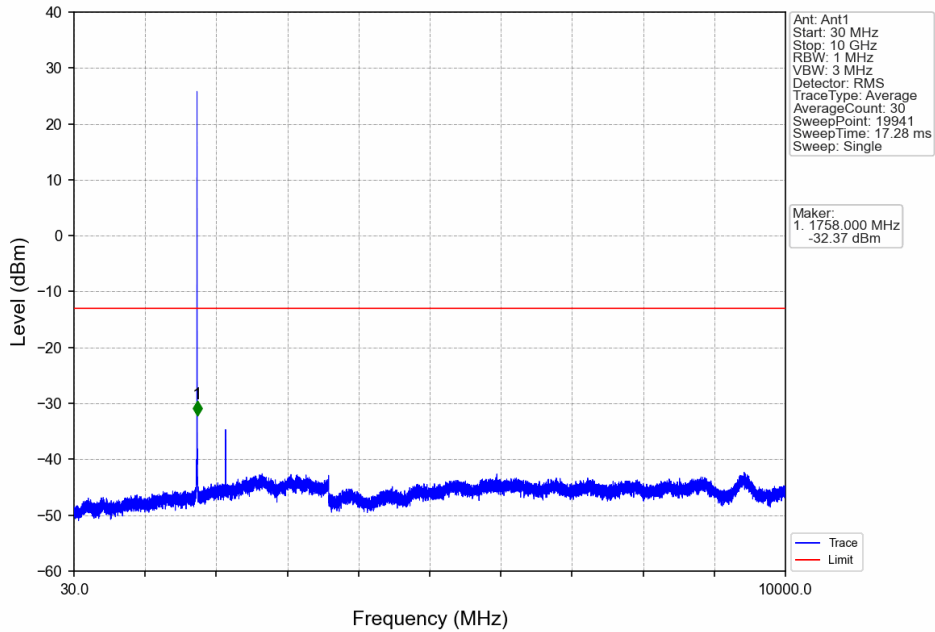
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



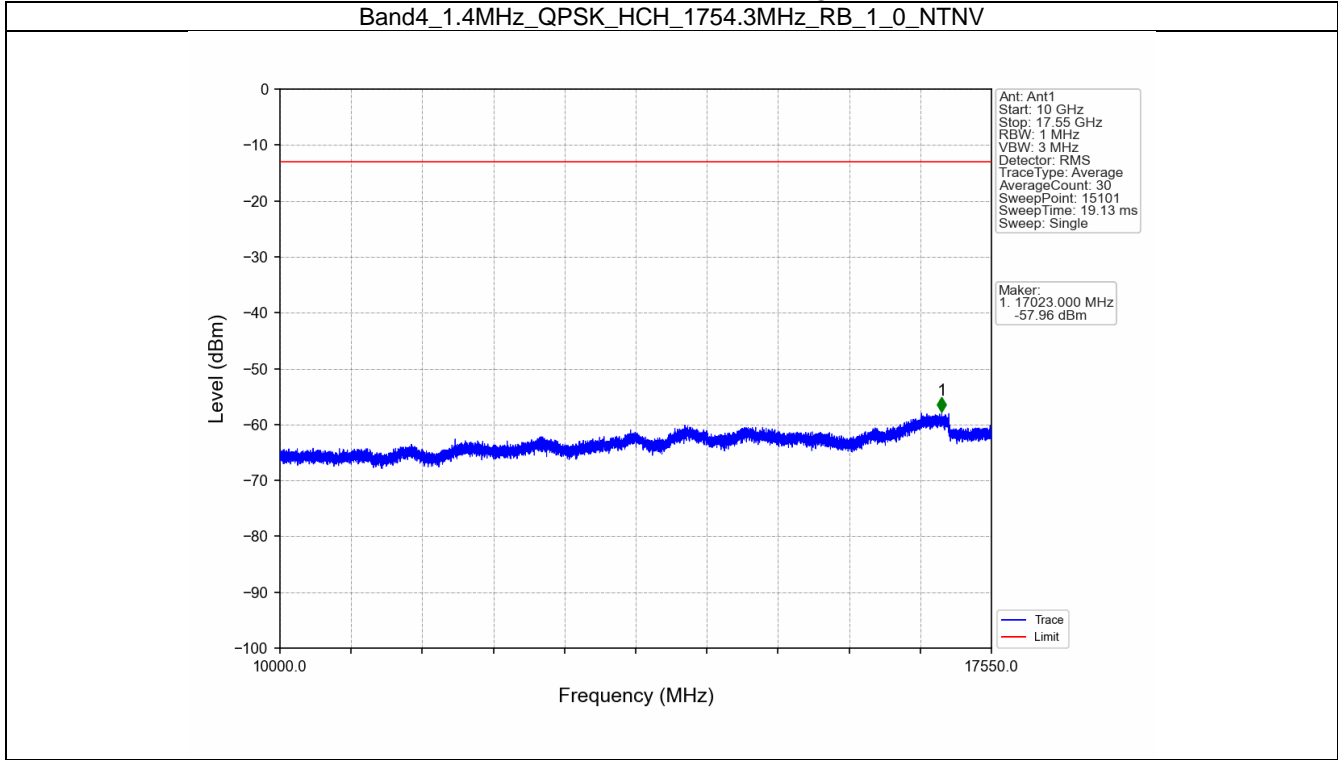
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

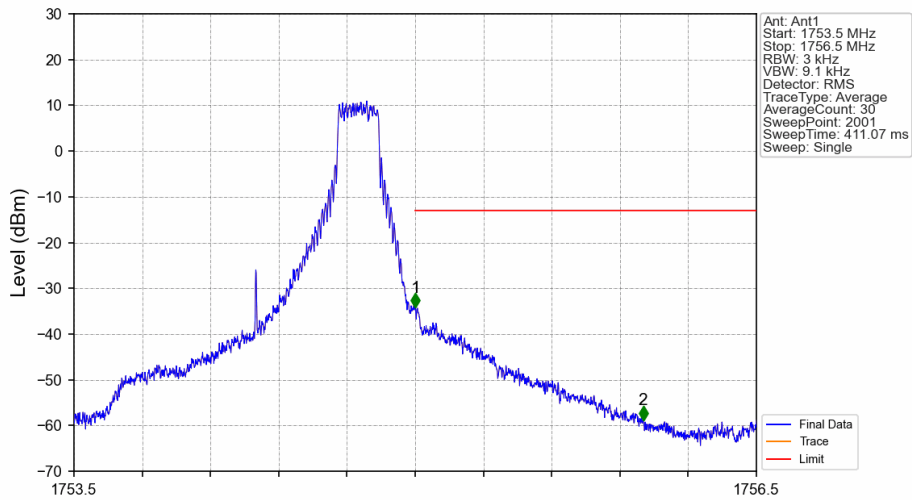


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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-34.25	-13	Pass
1756	1756.5	1	/	2	1756.002	-58.80	-13	Pass

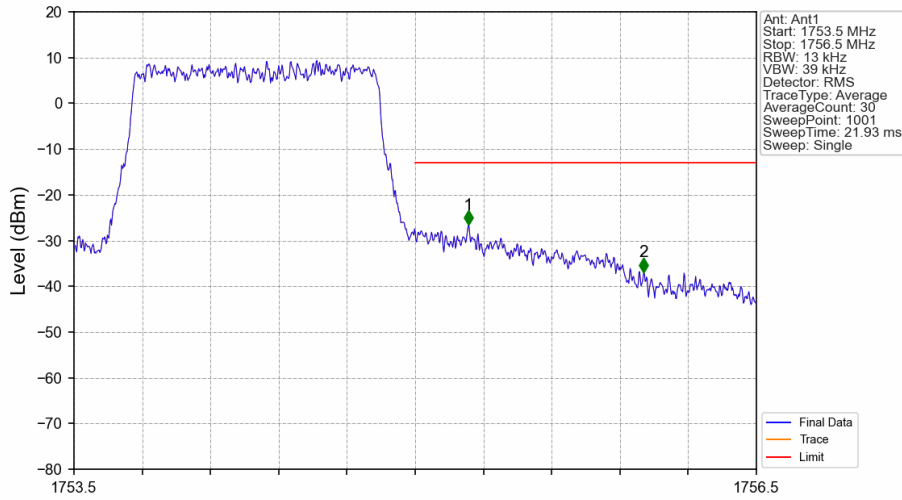


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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.013	/	/	/	/	/	/
1755	1756	0.013	/	1	1755.234	-26.50	-13	Pass
1756	1756.5	1	/	2	1756.005	-36.91	-13	Pass

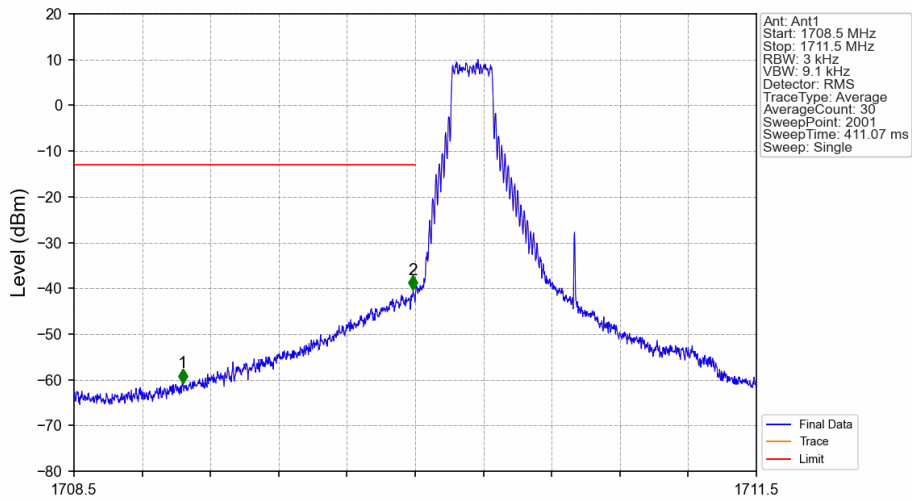


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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.977	-60.69	-13	Pass
1709	1710	0.003	/	2	1709.991	-40.38	-13	Pass
1710	1711.5	0.003	/	/	/	/	/	/



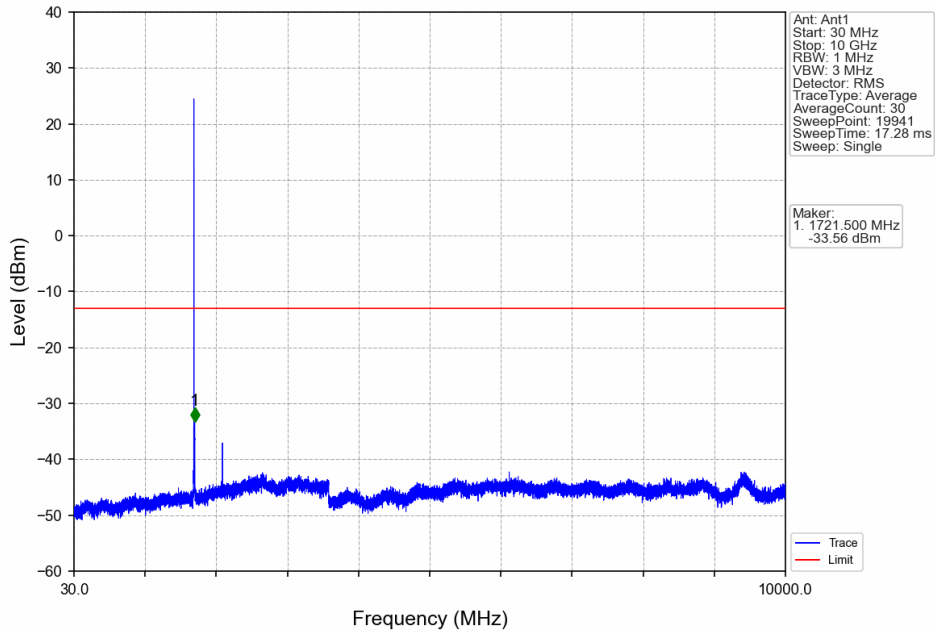
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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



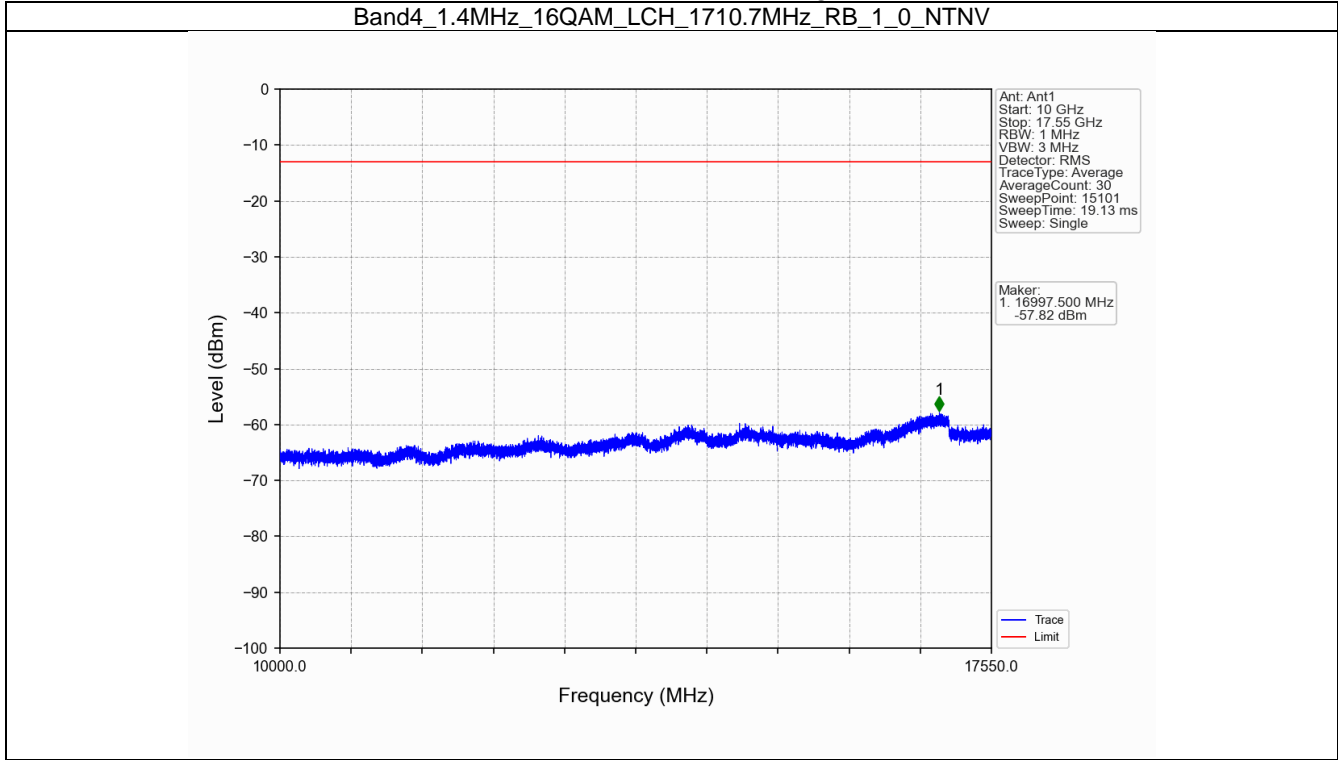
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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

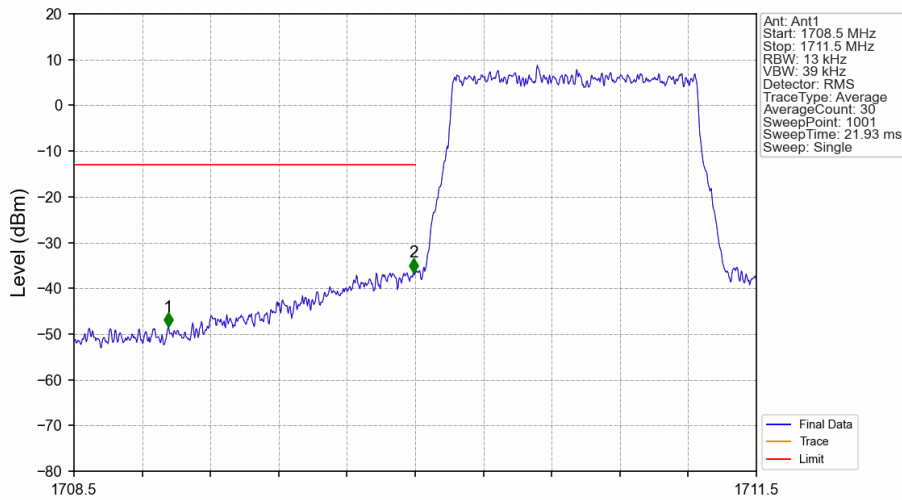


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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.914	-48.48	-13	Pass
1709	1710	0.013	/	2	1709.994	-36.53	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



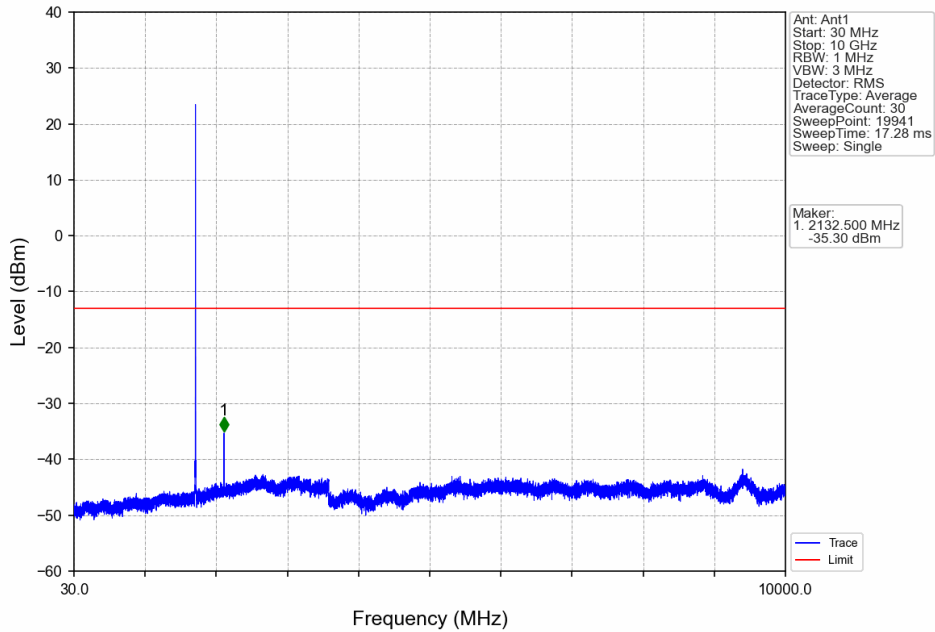
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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



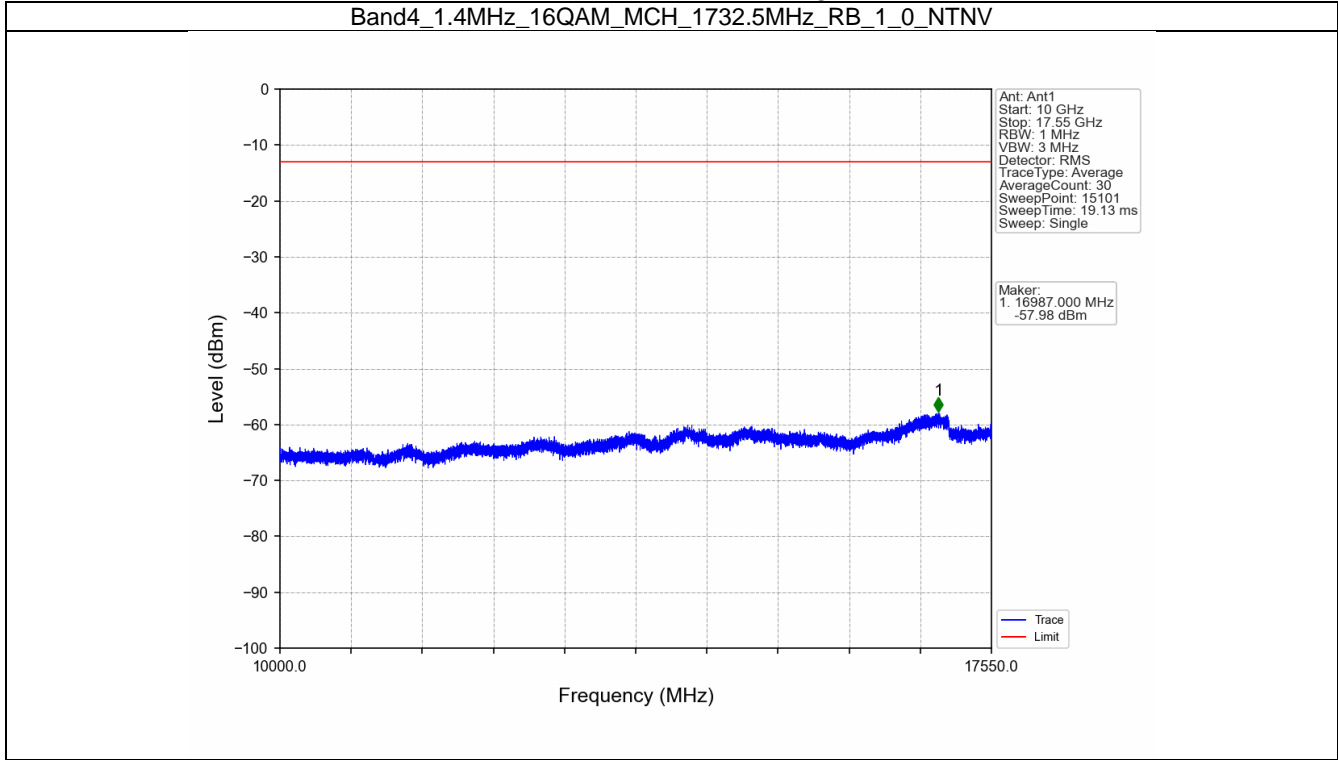
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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



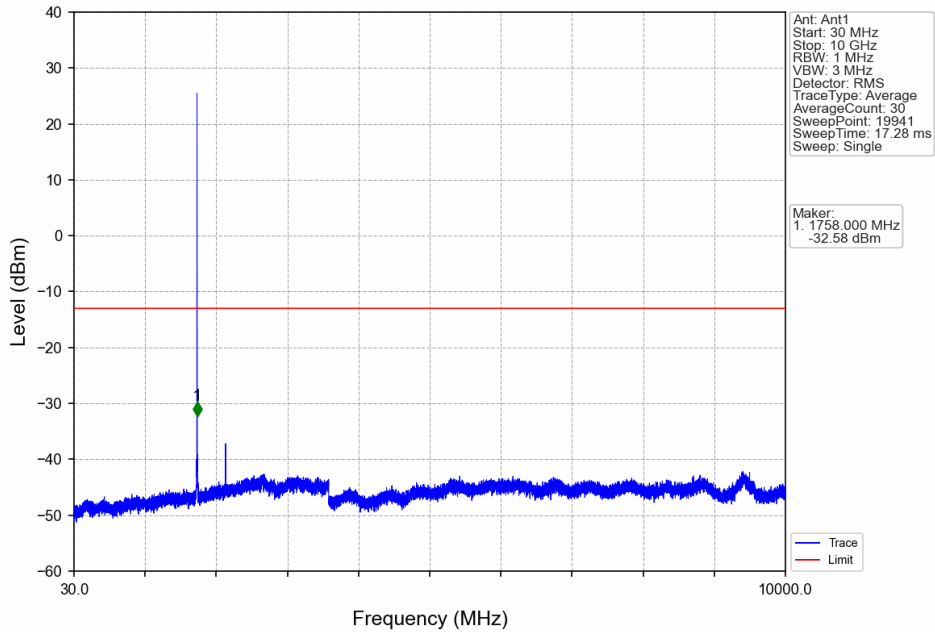
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Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



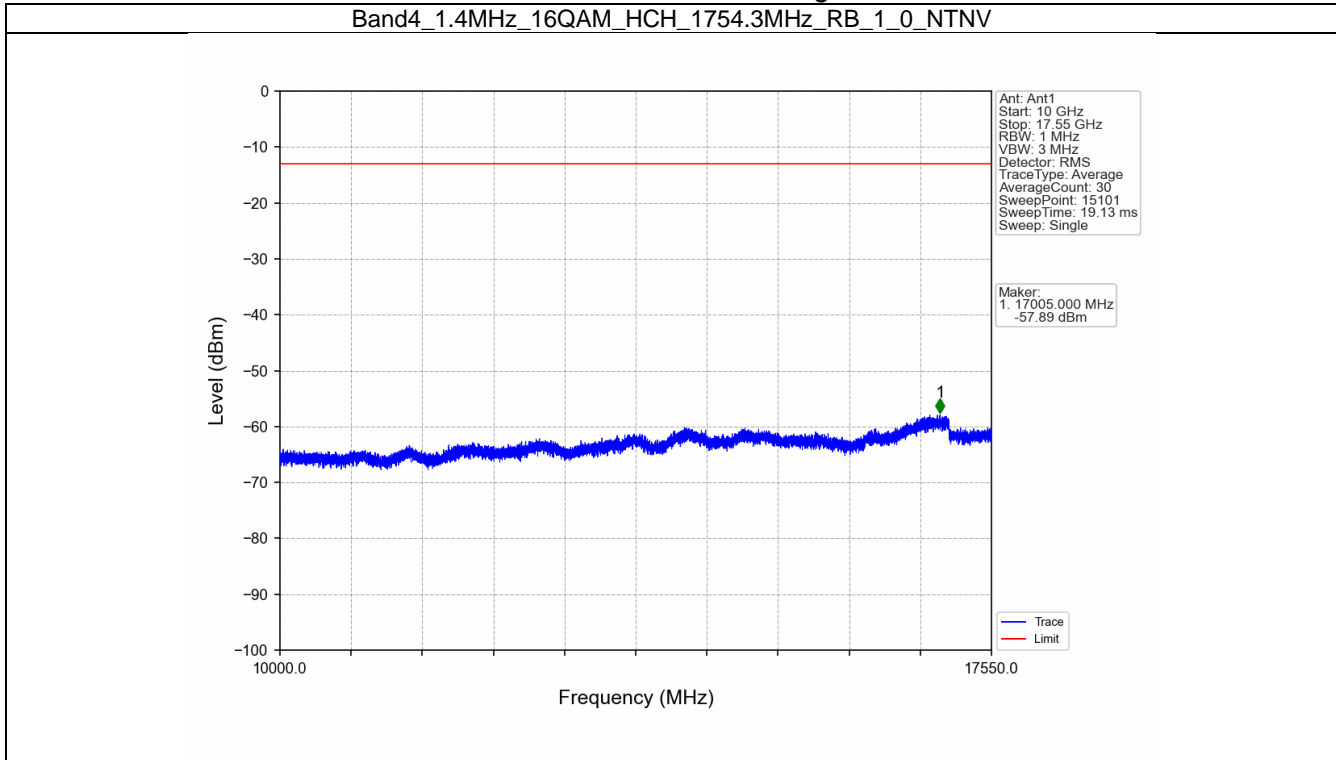
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Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV

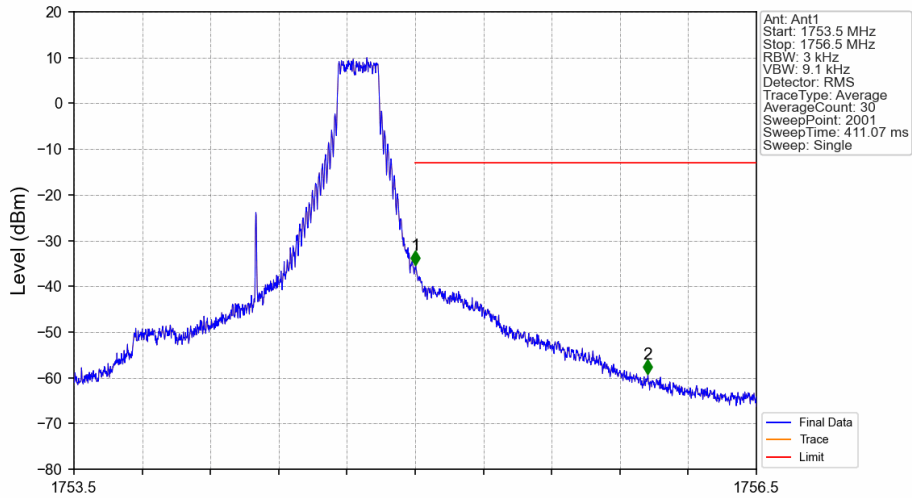


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Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-35.42	-13	Pass
1756	1756.5	1	/	2	1756.023	-59.14	-13	Pass



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