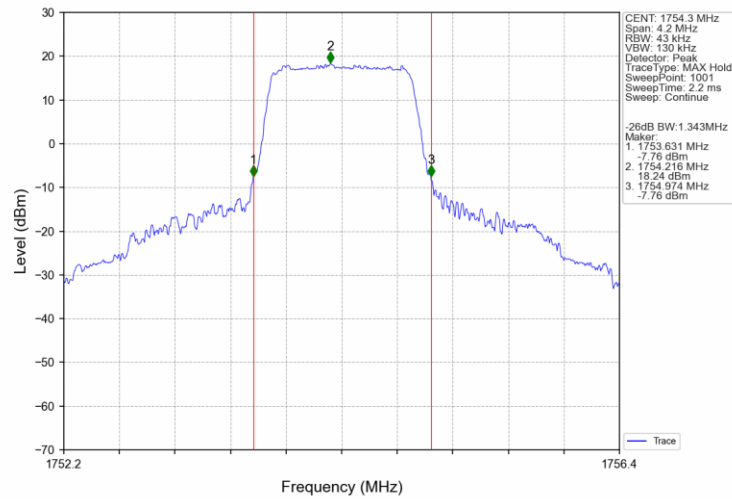
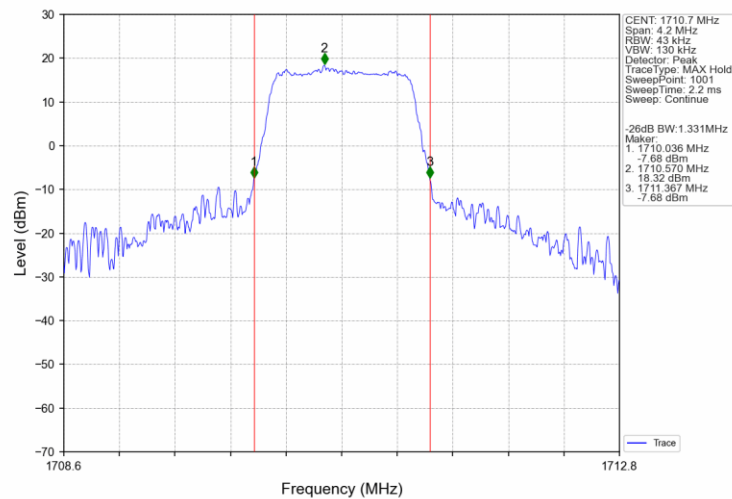


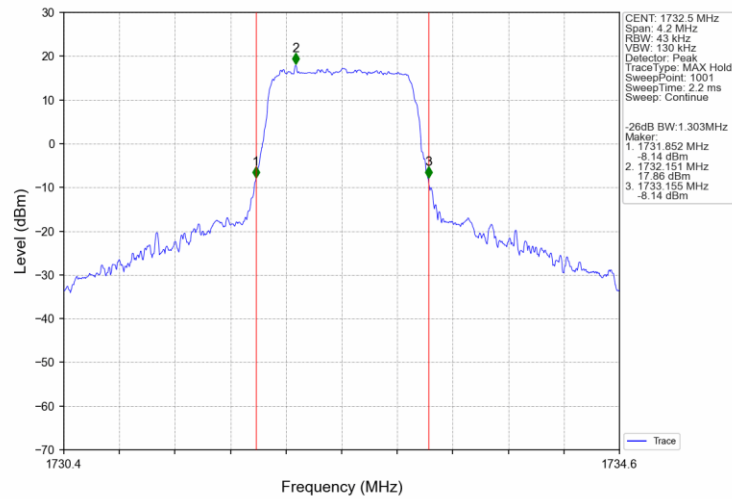
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



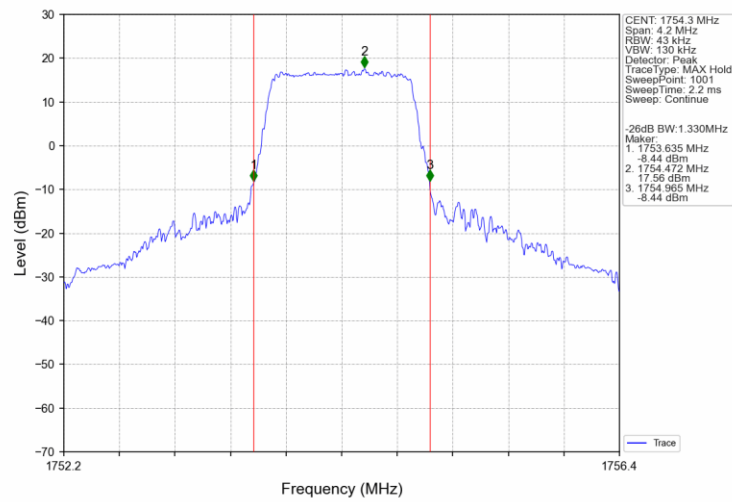
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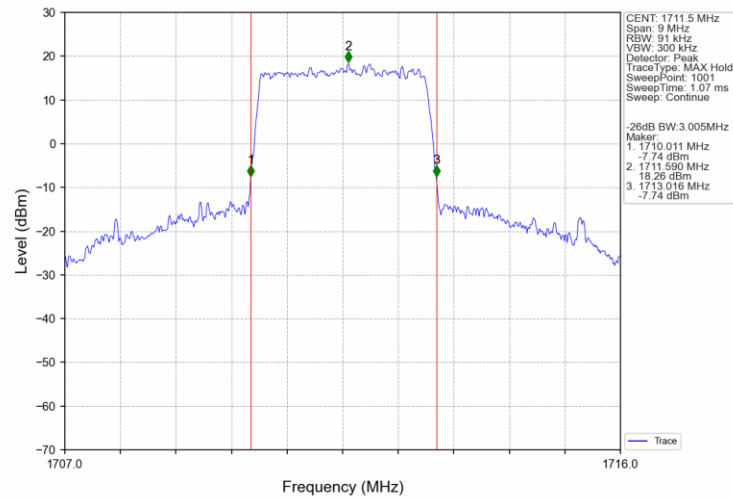
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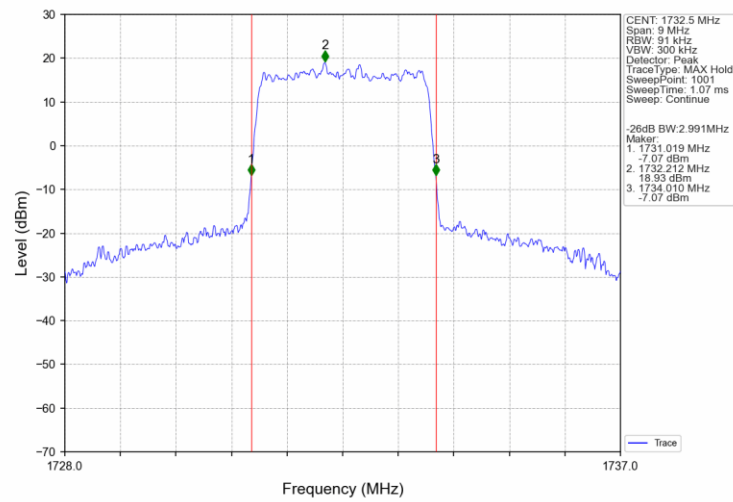
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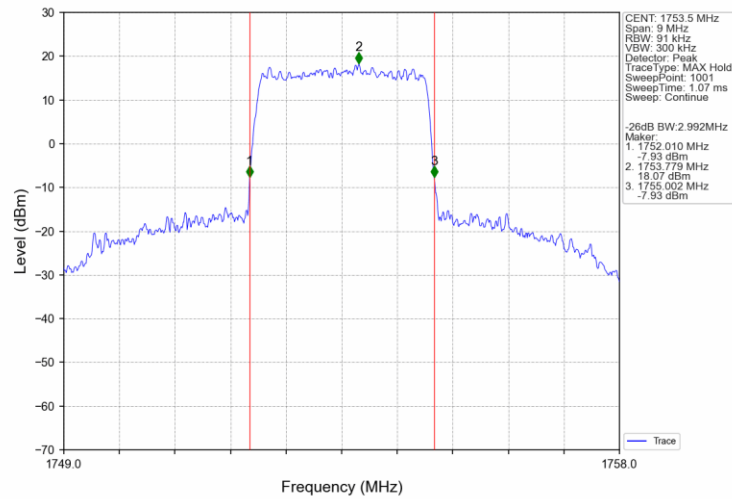
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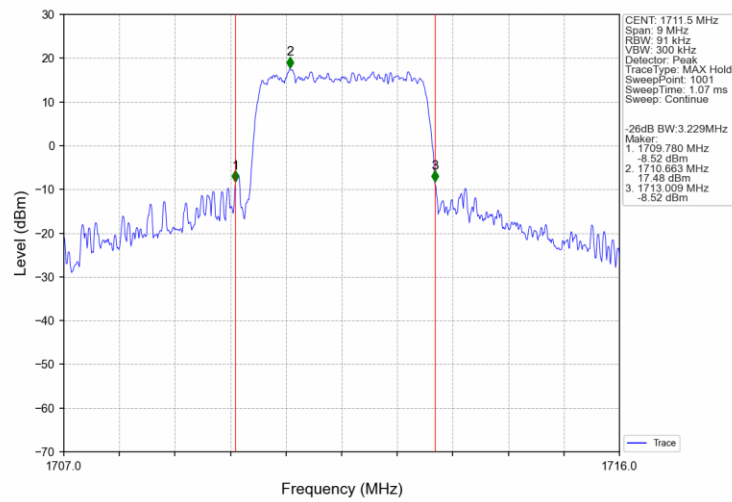
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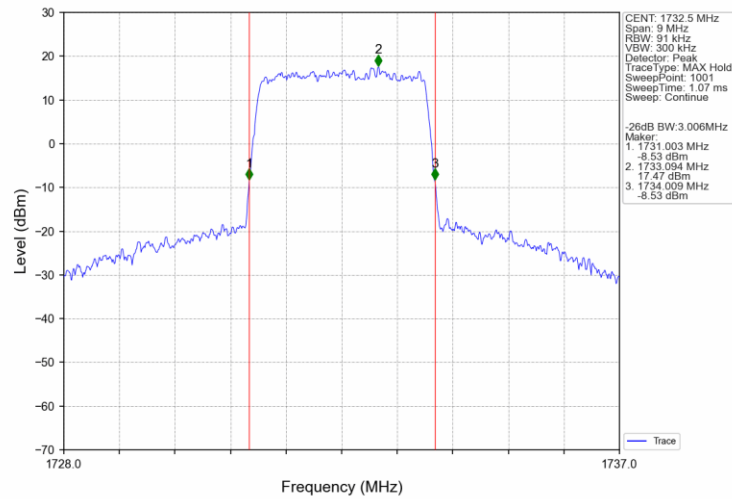
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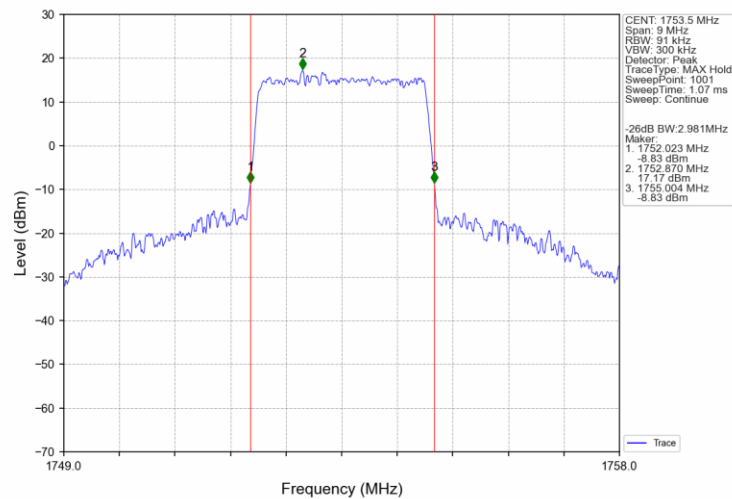
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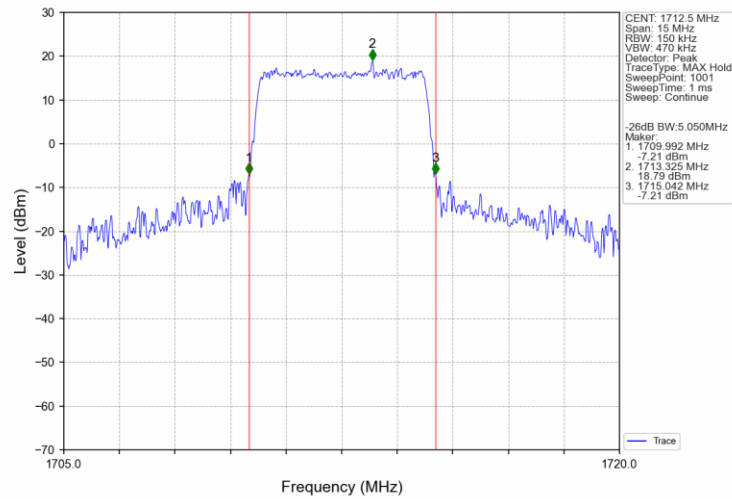
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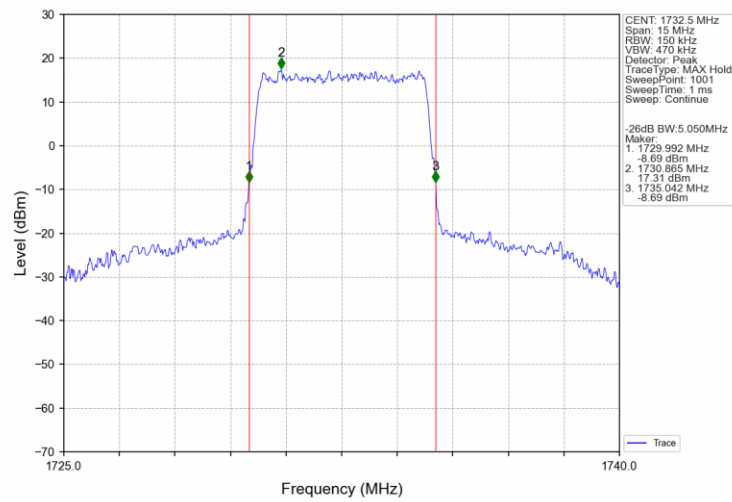
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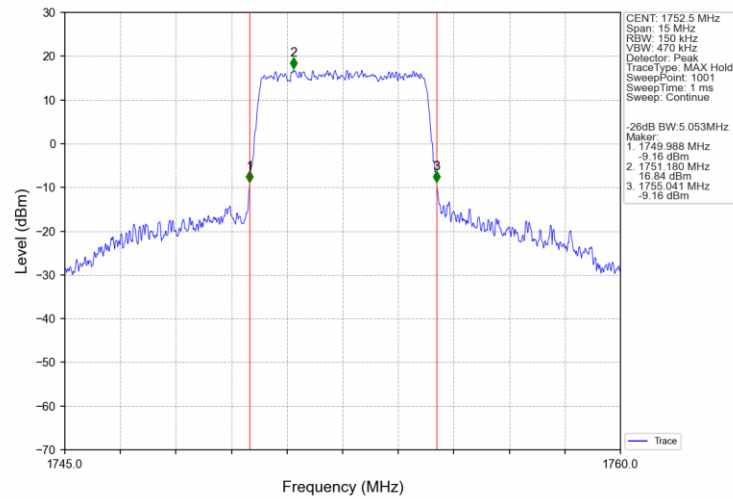
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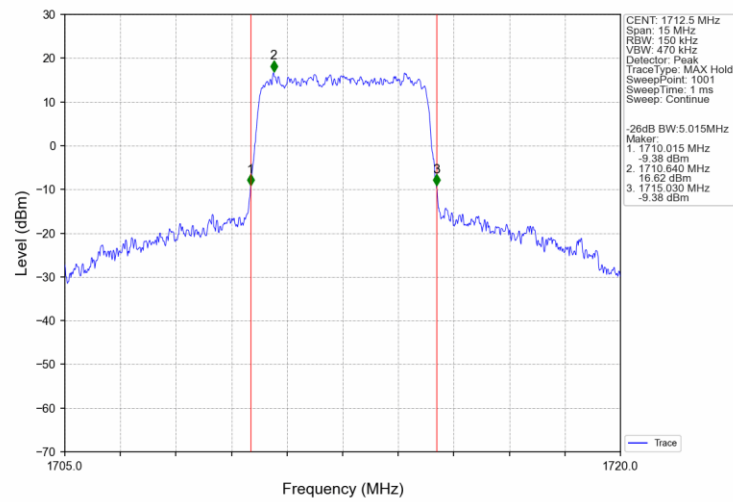
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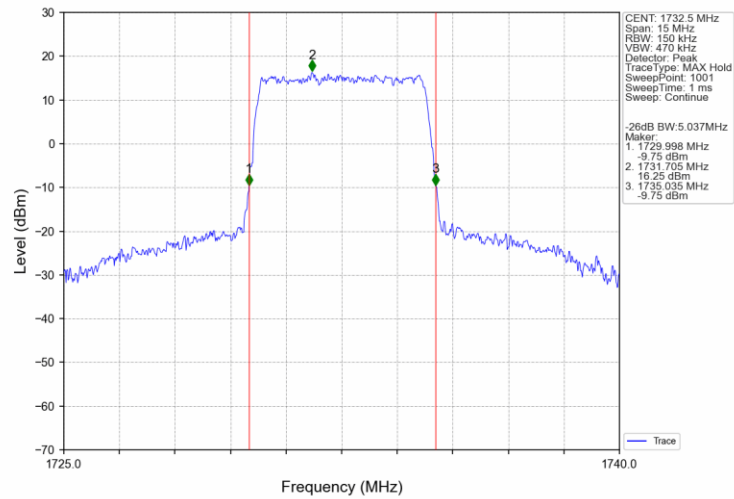
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTN



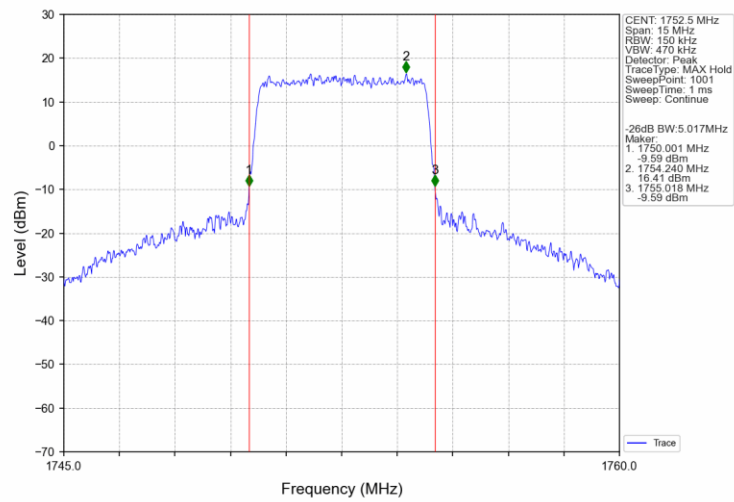
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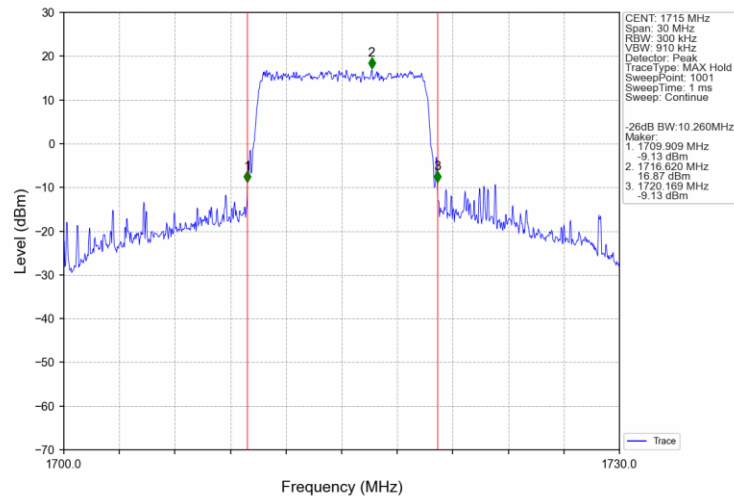
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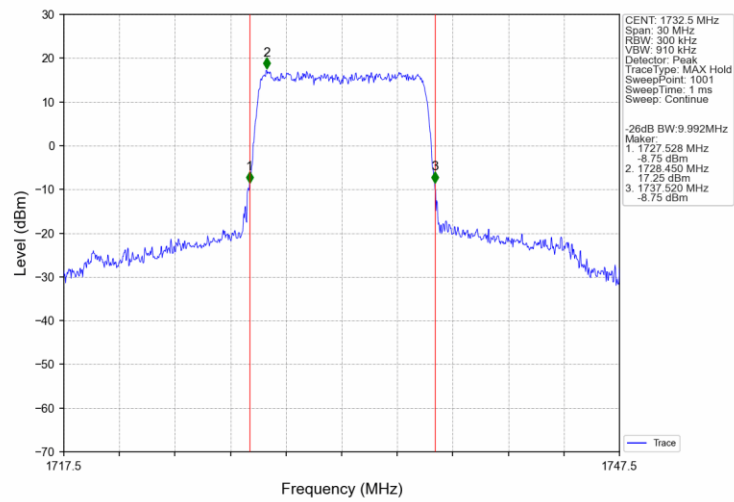
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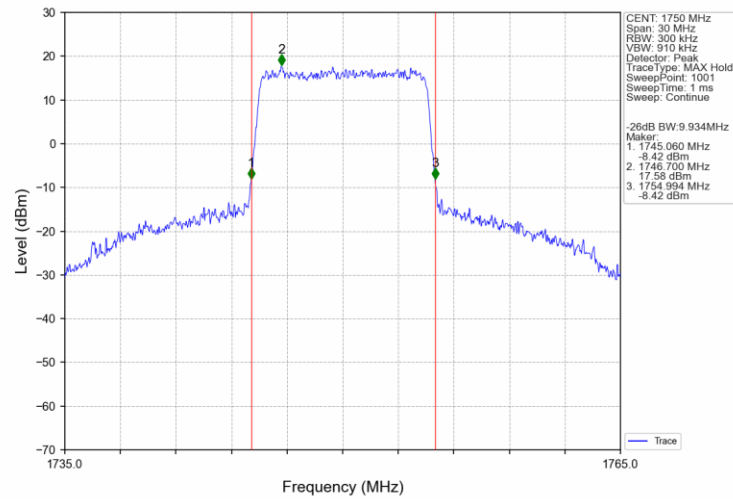
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV



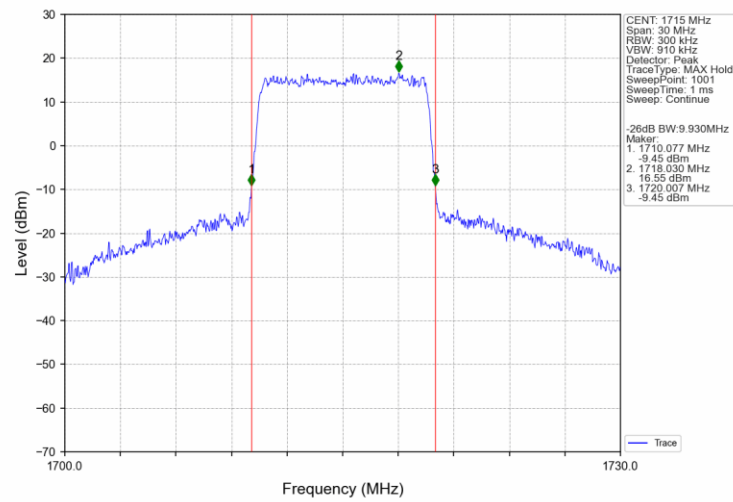
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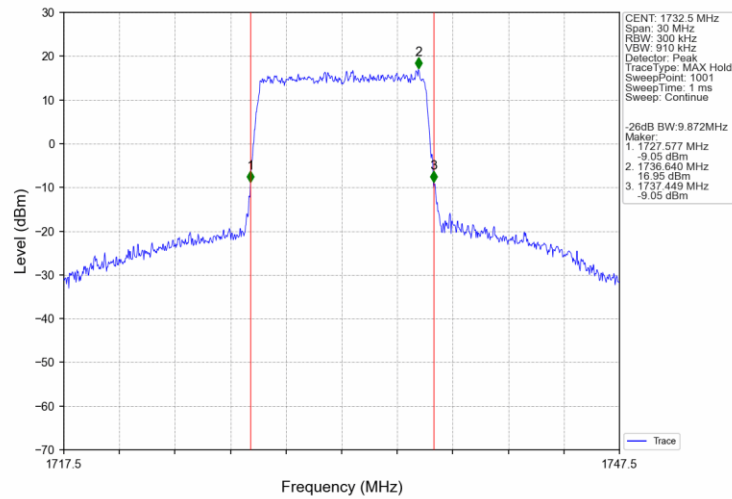
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



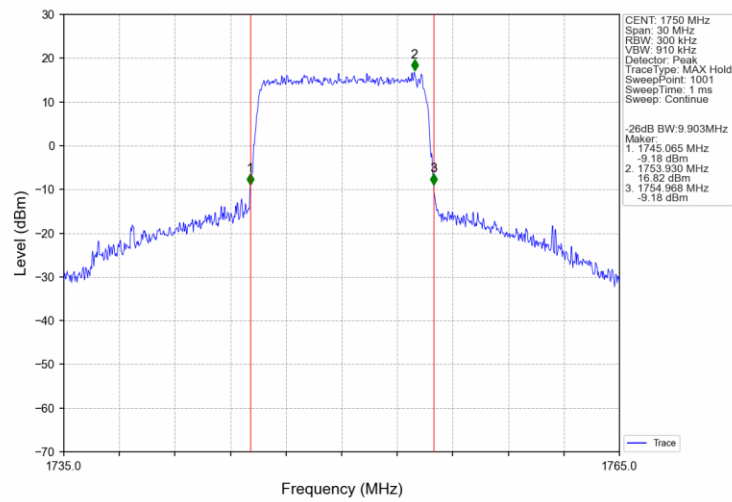
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



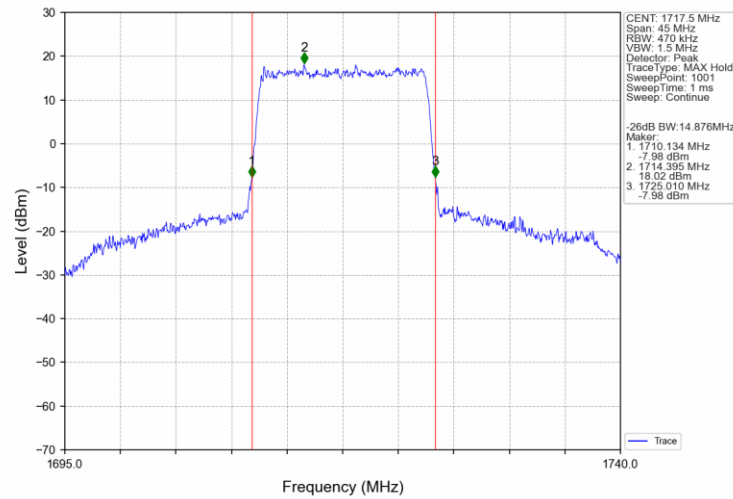
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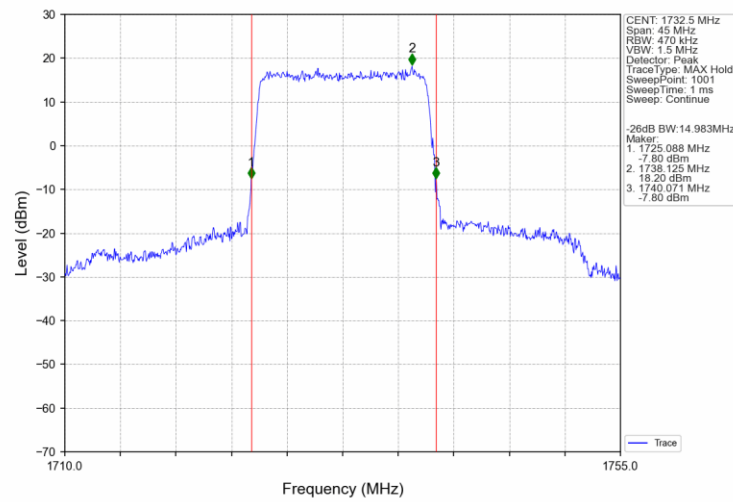
Band4 10MHz 16QAM HCH 1750MHz RB 50 0 NTN



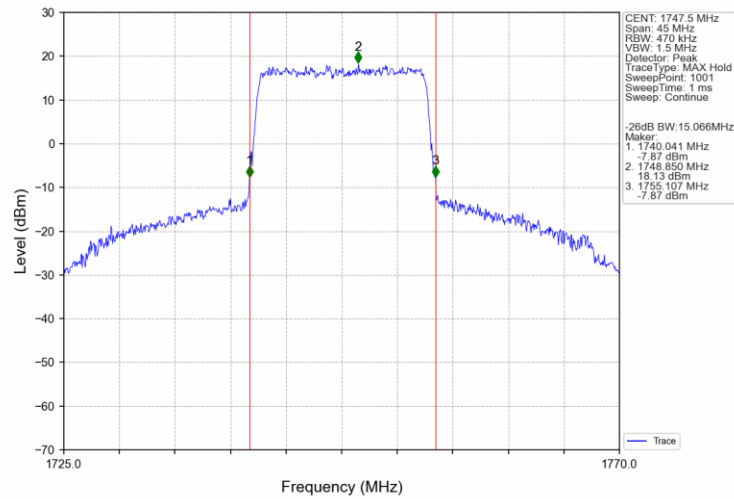
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



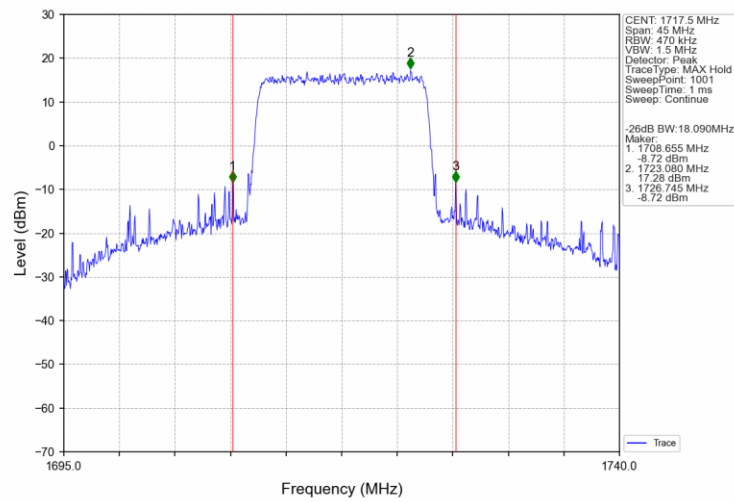
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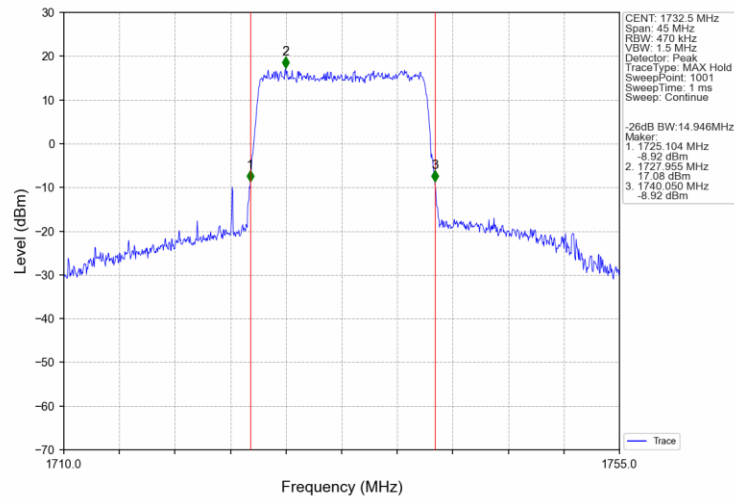
Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTNV



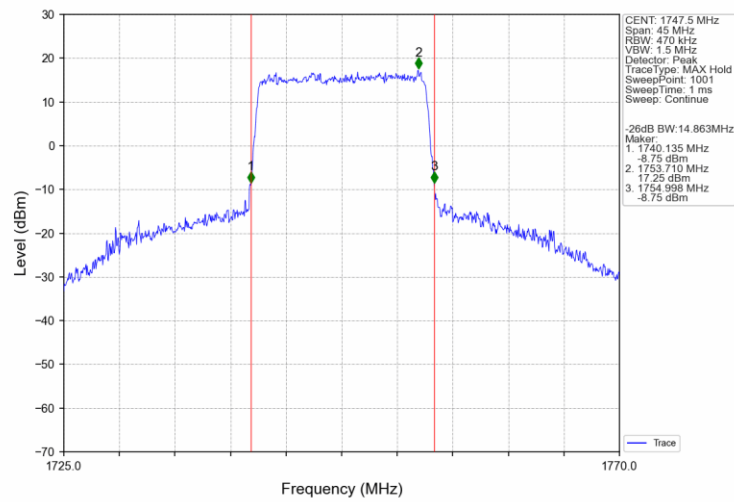
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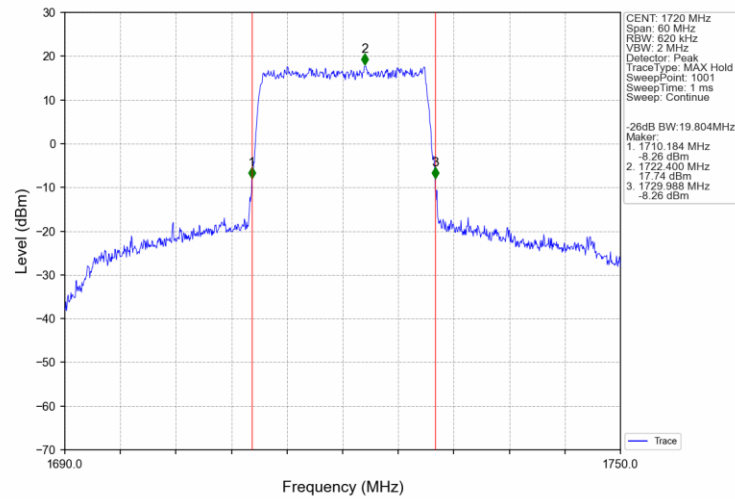
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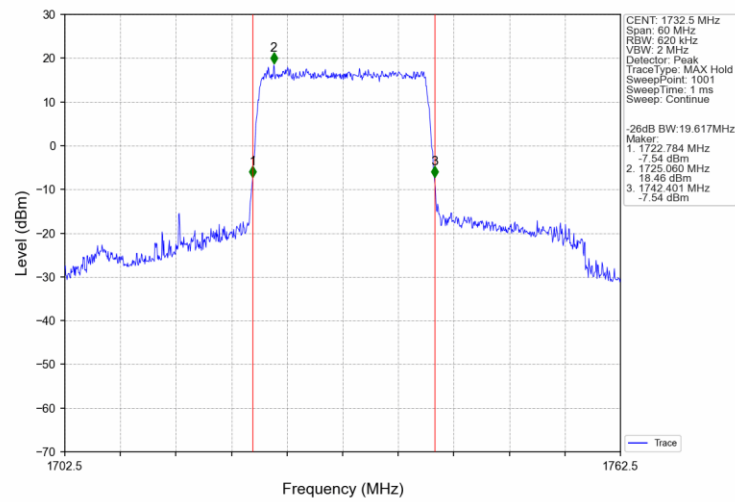
Band4 15MHz 16QAM HCH 1747.5MHz RB 75 0 NTN



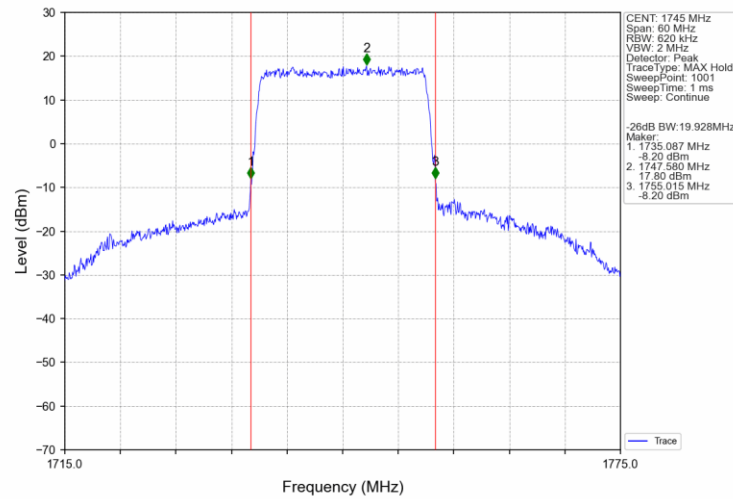
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



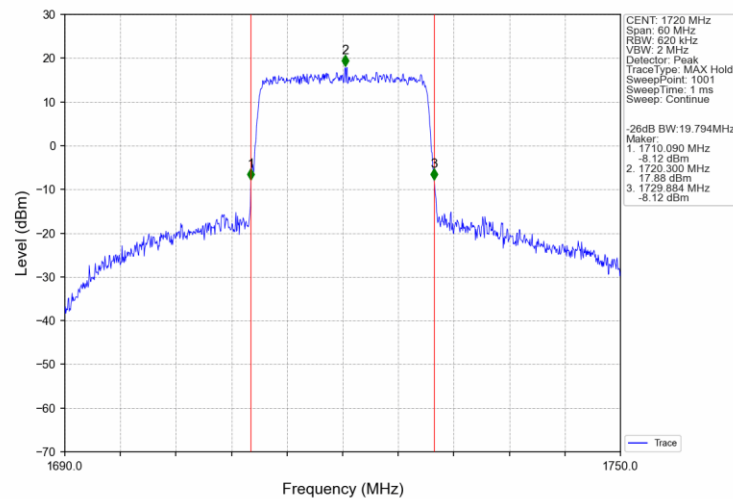
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



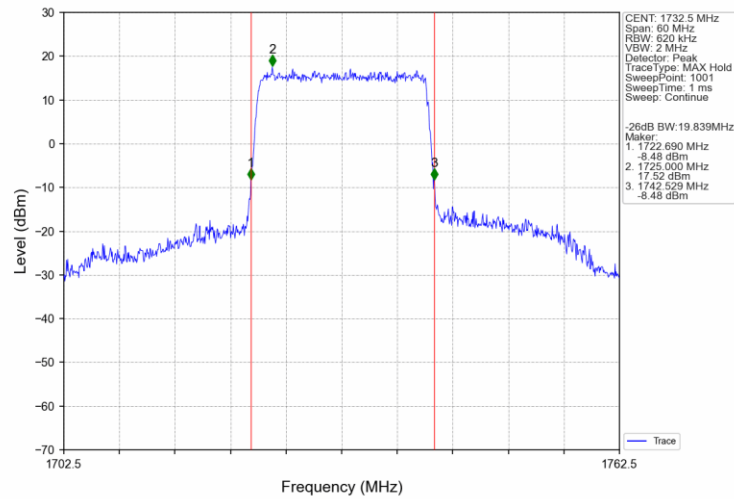
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTV



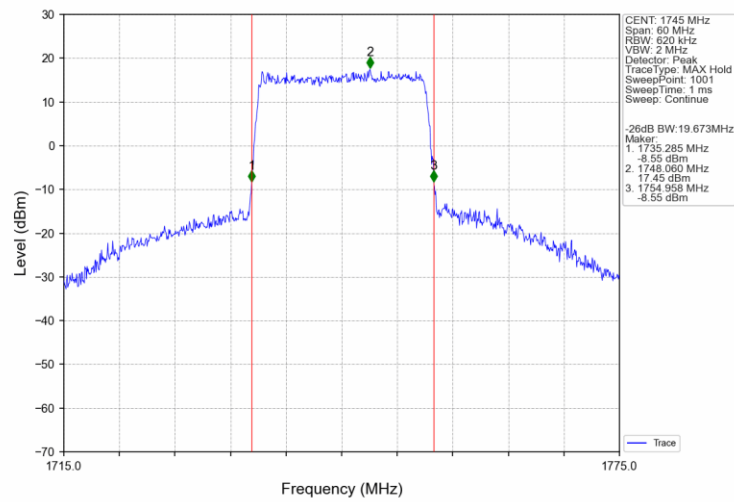
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTV



Band4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTN



Band4 20MHz 16QAM HCH 1745MHz RB 100 0 NTN



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	4.48	<=13	Pass
	1732.5	6	0	8.40	<=13	Pass
	1754.3	6	0	4.43	<=13	Pass
16QAM	1710.7	6	0	5.37	<=13	Pass
	1732.5	6	0	6.21	<=13	Pass
	1754.3	6	0	5.32	<=13	Pass

5.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	4.80	<=13	Pass
	1732.5	15	0	5.48	<=13	Pass
	1753.5	15	0	4.51	<=13	Pass
16QAM	1711.5	15	0	5.61	<=13	Pass
	1732.5	15	0	6.29	<=13	Pass
	1753.5	15	0	5.41	<=13	Pass

5.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.08	<=13	Pass
	1732.5	25	0	5.69	<=13	Pass
	1752.5	25	0	5.10	<=13	Pass
16QAM	1712.5	25	0	5.81	<=13	Pass
	1732.5	25	0	6.44	<=13	Pass
	1752.5	25	0	5.79	<=13	Pass

5.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.16	<=13	Pass
	1732.5	50	0	5.64	<=13	Pass
	1750	50	0	5.01	<=13	Pass
16QAM	1715	50	0	5.92	<=13	Pass
	1732.5	50	0	6.41	<=13	Pass
	1750	50	0	5.76	<=13	Pass

5.1.5 B4_15MHz

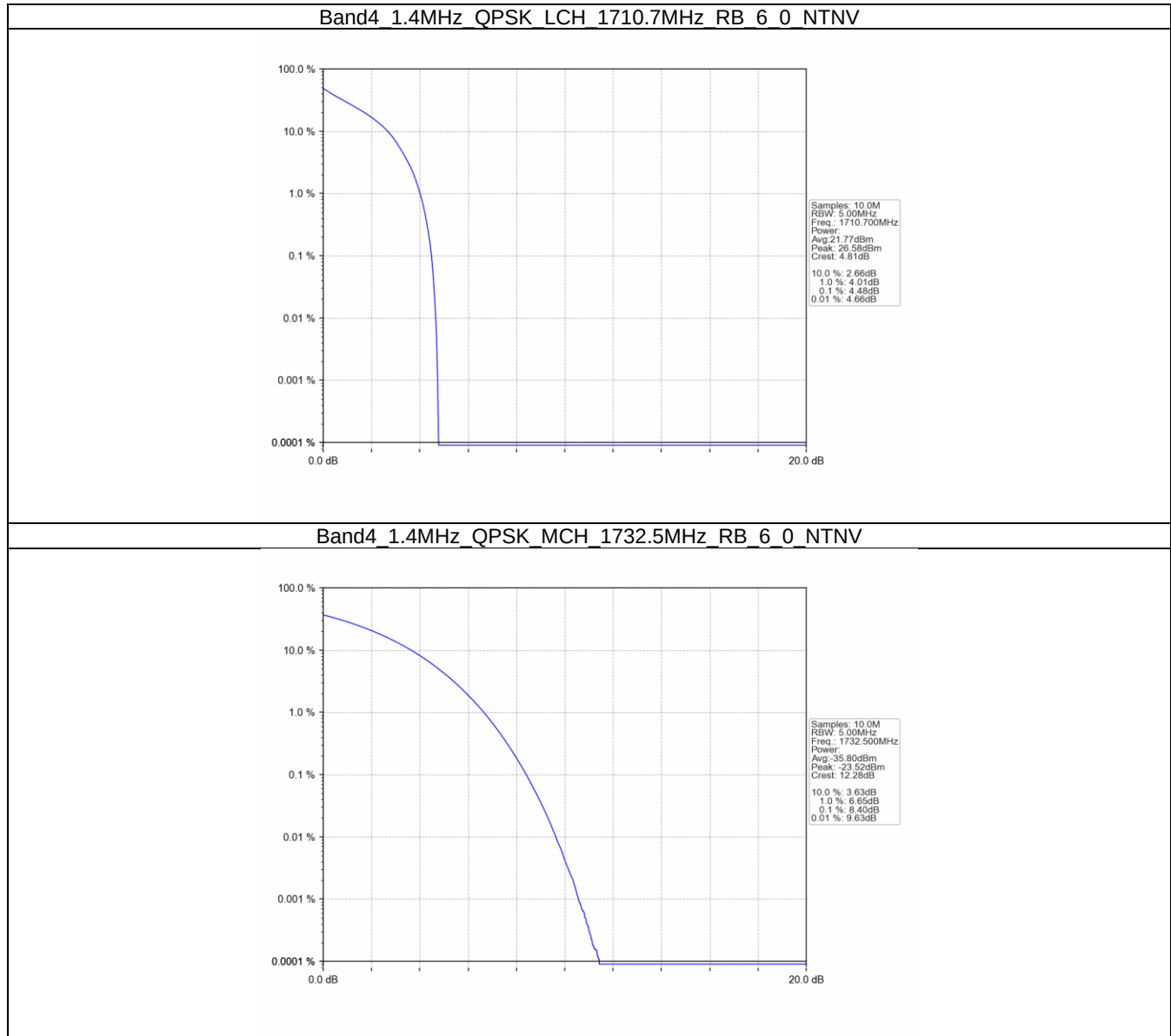
Band: 4 / Bandwidth: 15MHz / NTNV						
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		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.09	<=13	Pass
	1732.5	75	0	5.25	<=13	Pass
	1747.5	75	0	5.05	<=13	Pass
16QAM	1717.5	75	0	6.06	<=13	Pass
	1732.5	75	0	6.31	<=13	Pass
	1747.5	75	0	5.95	<=13	Pass

5.1.6 B4_20MHz

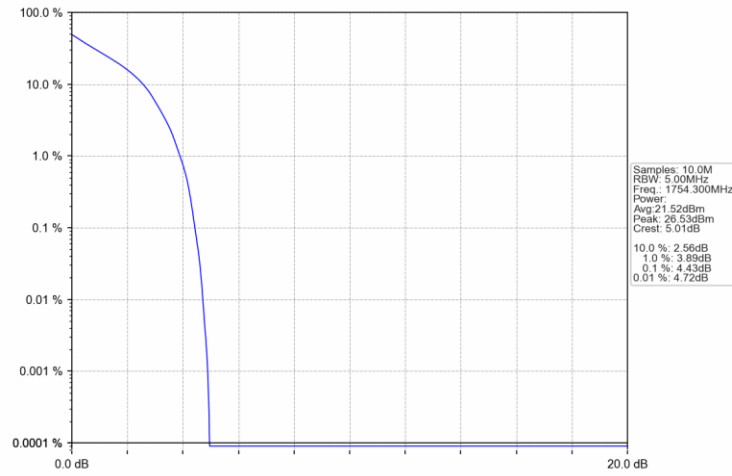
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.66	<=13	Pass
	1732.5	100	0	5.70	<=13	Pass
	1745	100	0	5.61	<=13	Pass
16QAM	1720	100	0	6.60	<=13	Pass
	1732.5	100	0	6.70	<=13	Pass
	1745	100	0	6.57	<=13	Pass

5.2 Test Graph

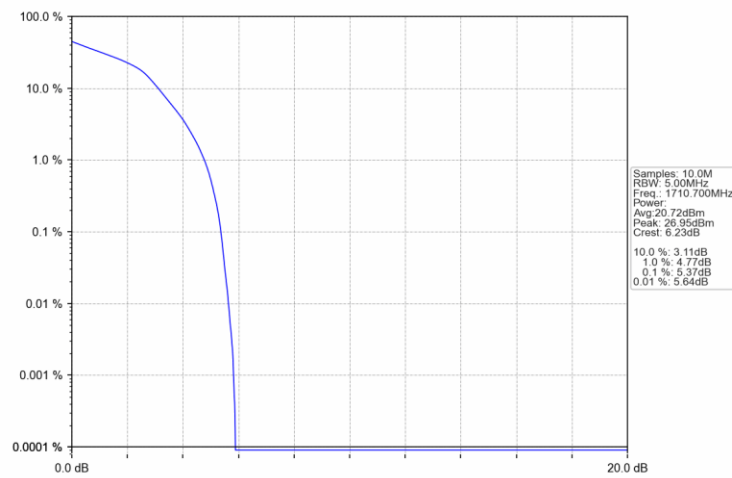
5.2.1 B4_1.4MHz



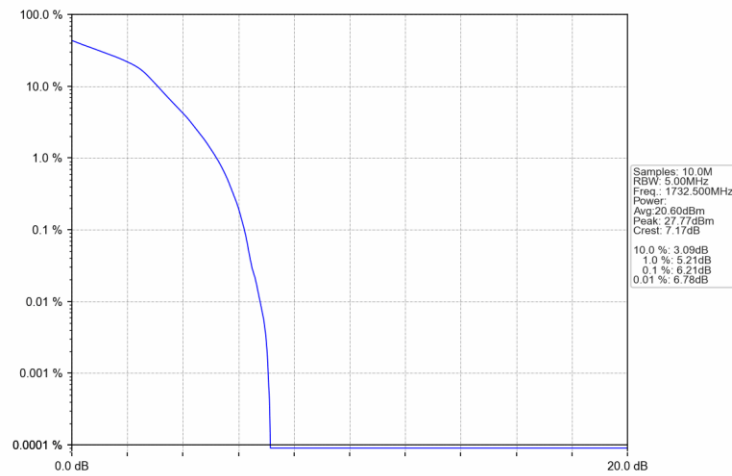
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



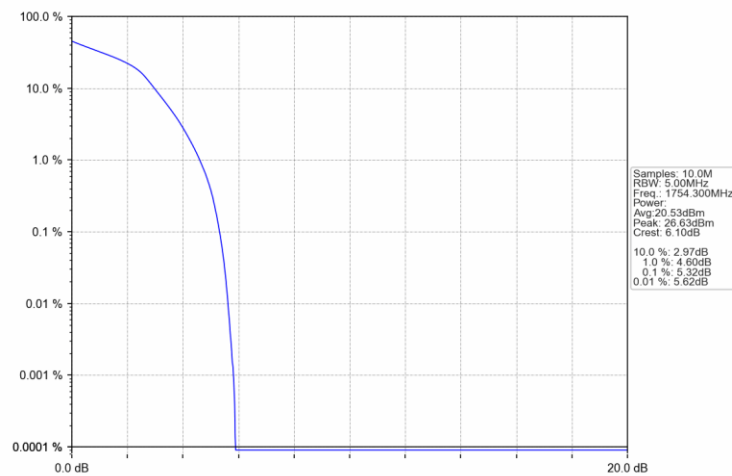
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV

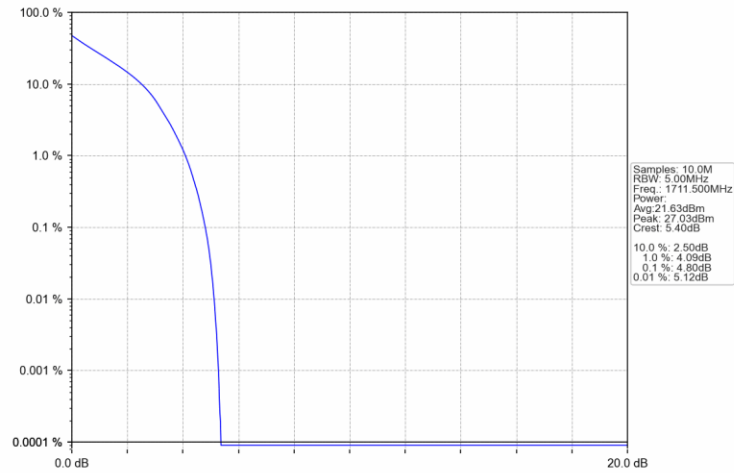


Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV

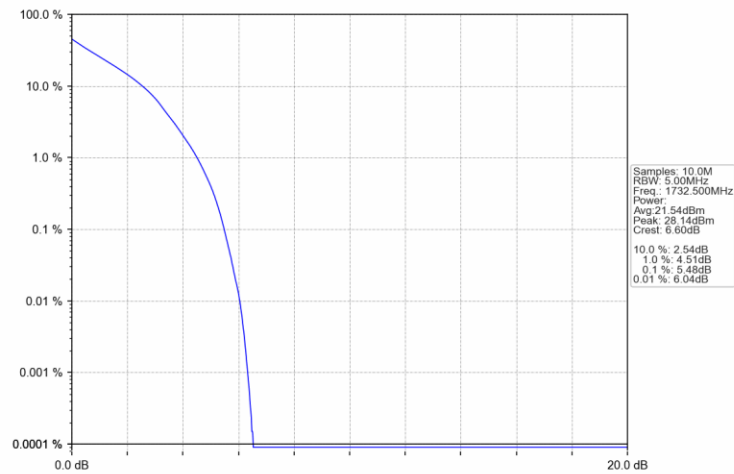


5.2.2 B4_3MHz

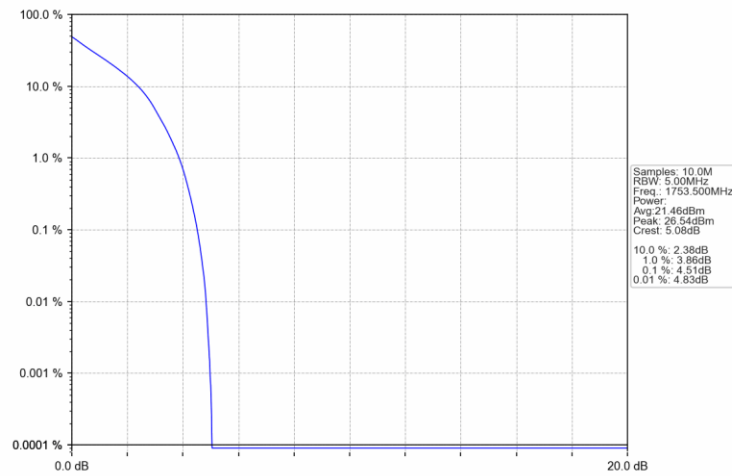
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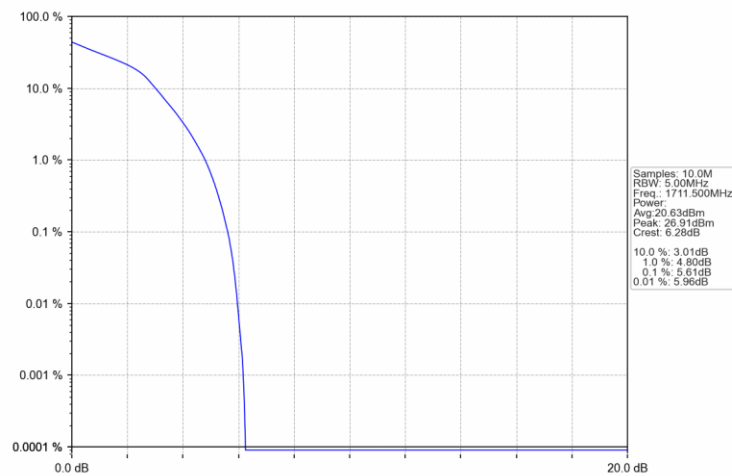
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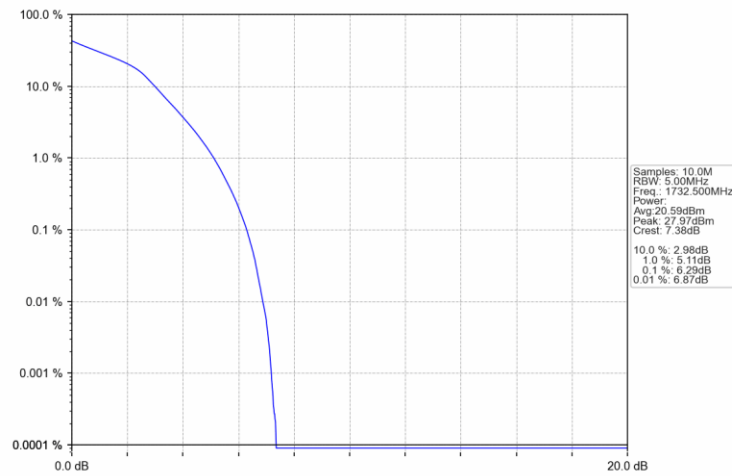
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



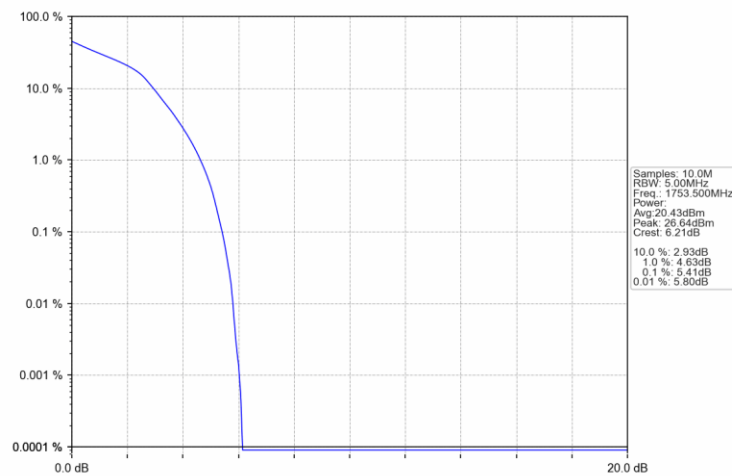
Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTV



Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV

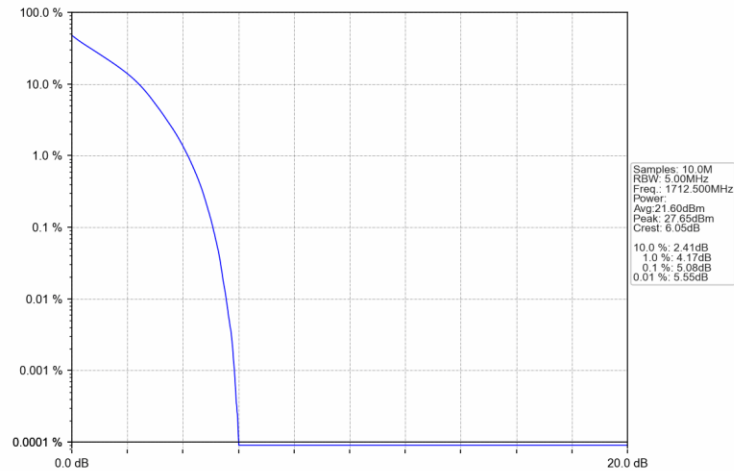


Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV

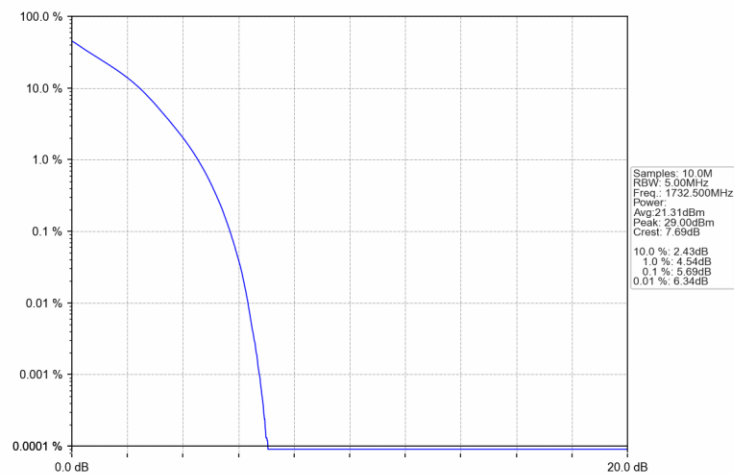


5.2.3 B4_5MHz

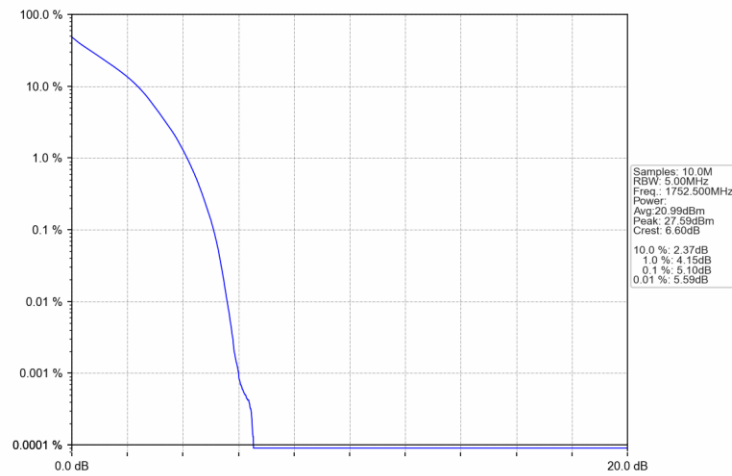
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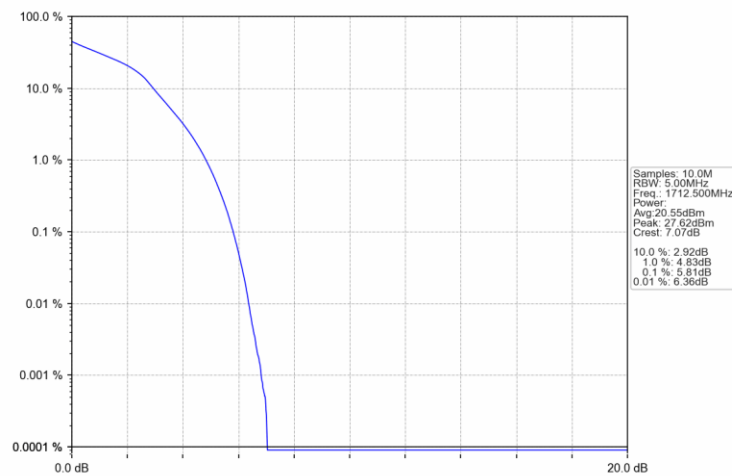
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



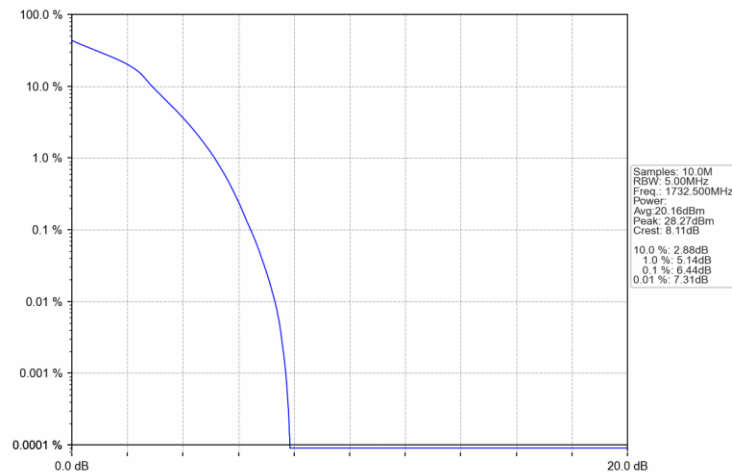
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTNV



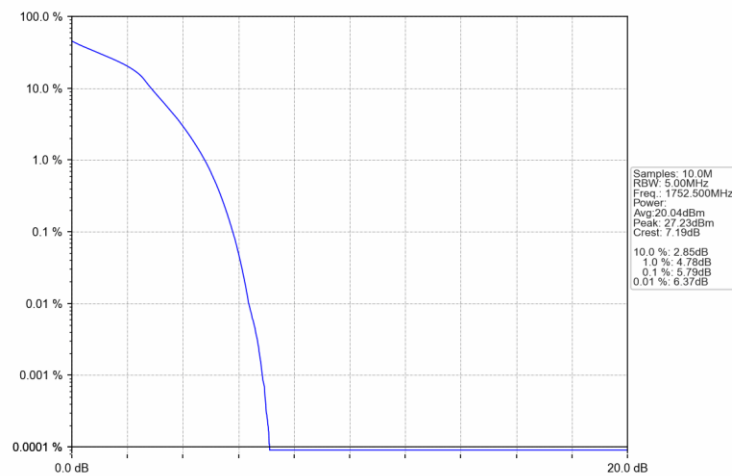
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTNV



Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV

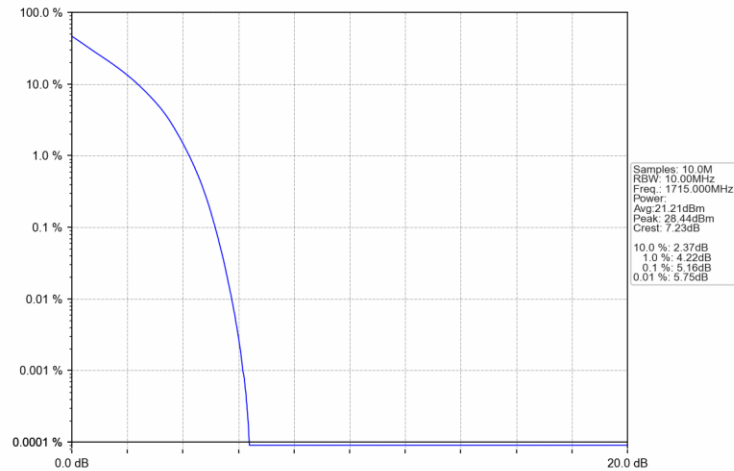


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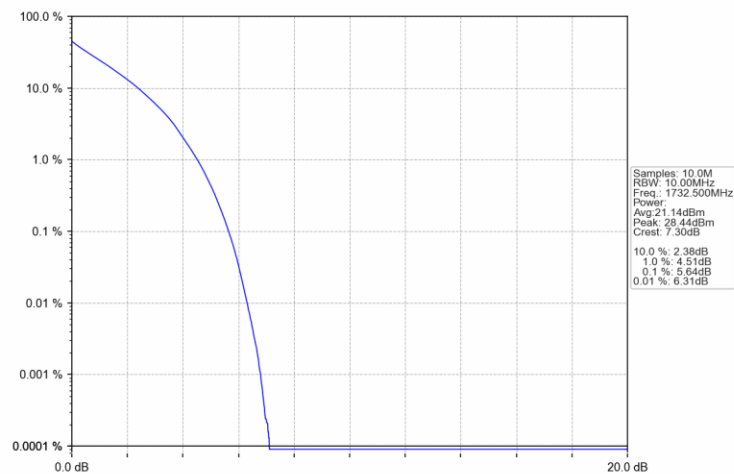


5.2.4 B4_10MHz

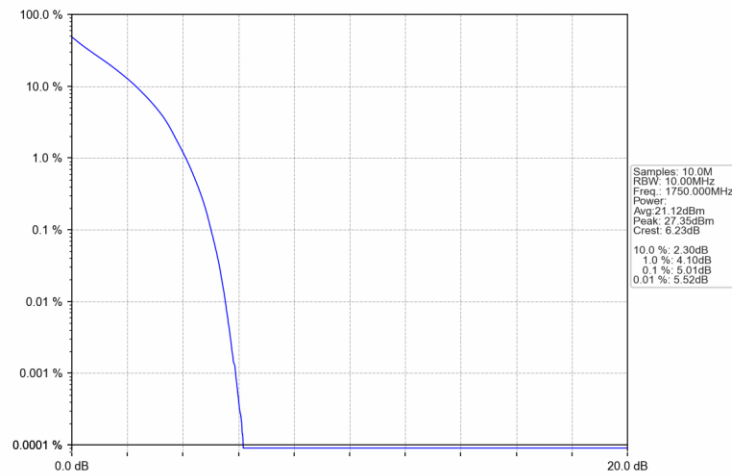
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



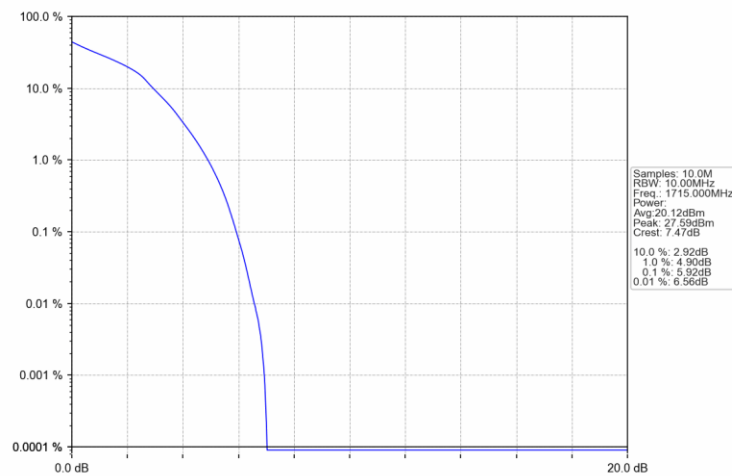
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



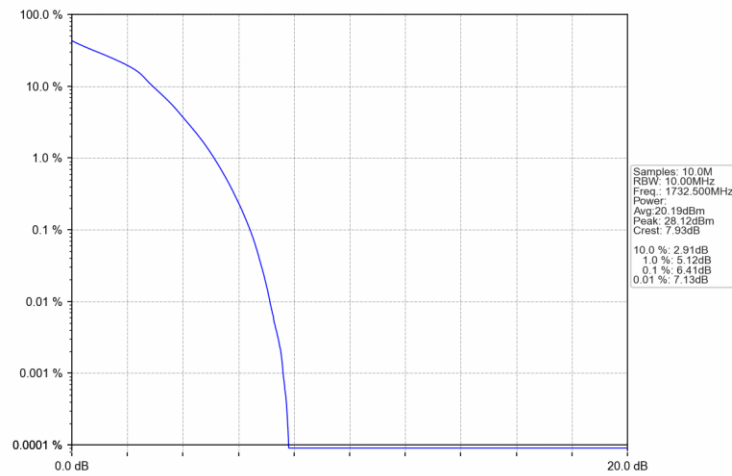
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



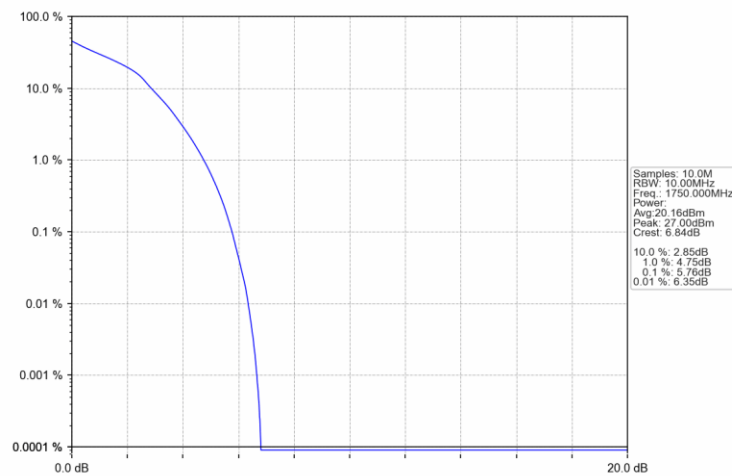
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTNV

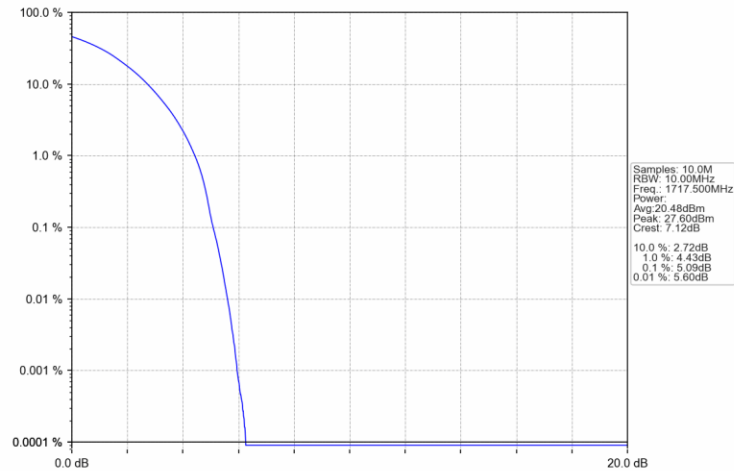


Band4 10MHz 16QAM HCH 1750MHz RB 50 0 NTNV

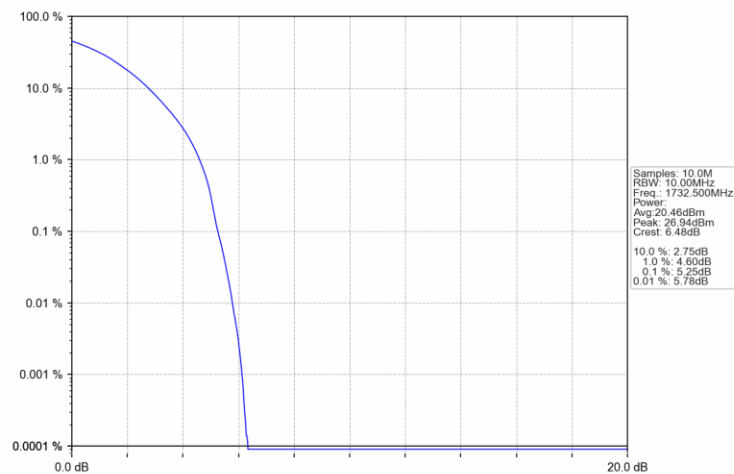


5.2.5 B4_15MHz

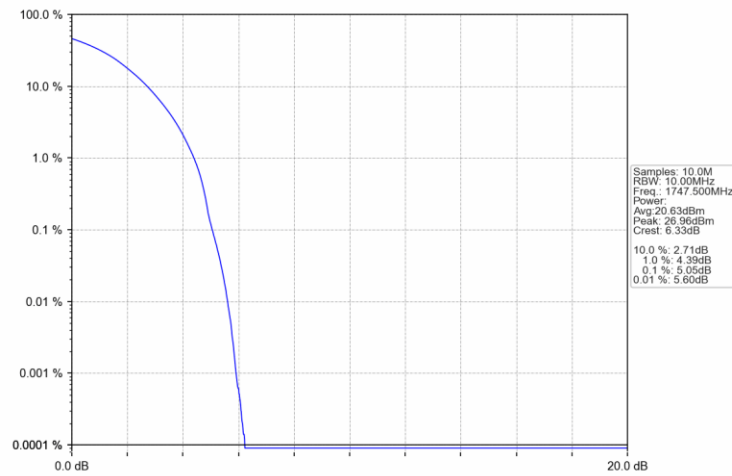
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



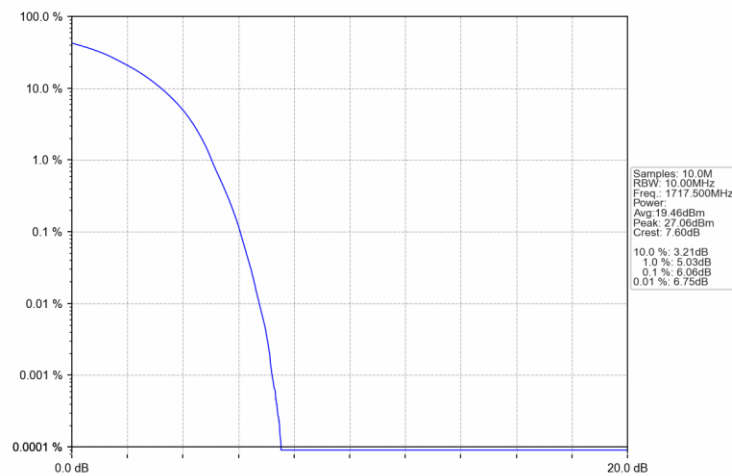
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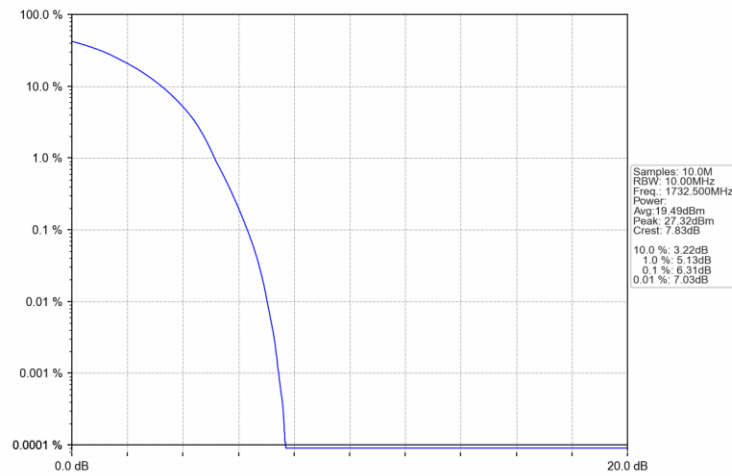
Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTNV



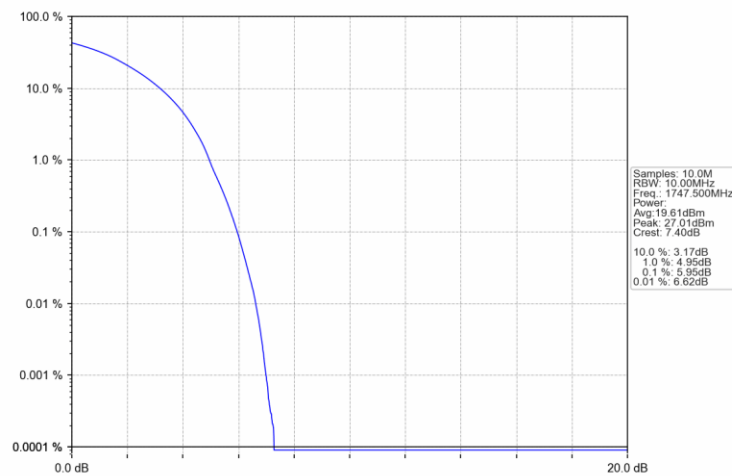
Band4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTNV



Band4 15MHz 16QAM MCH 1732.5MHz RB 75 0 NTN

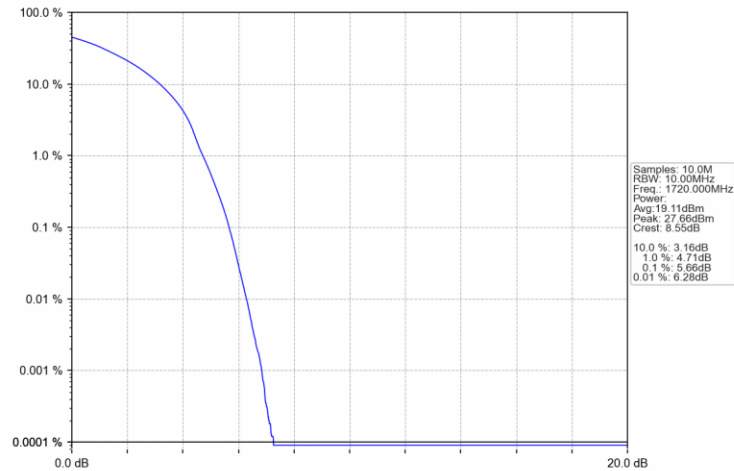


Band4 15MHz 16QAM HCH 1747.5MHz RB 75 0 NTN

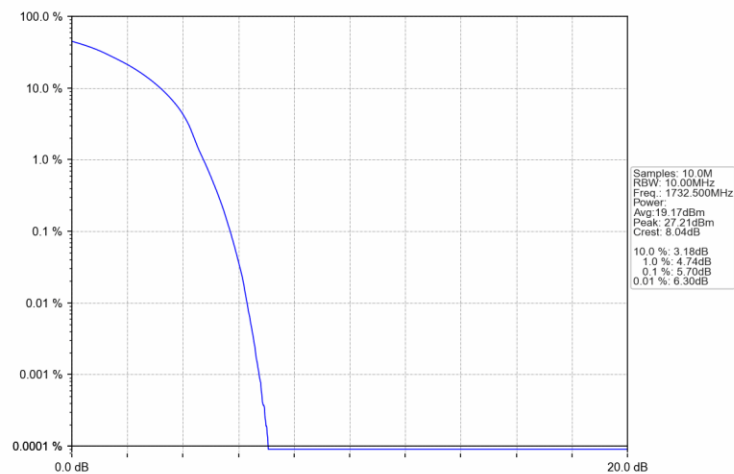


5.2.6 B4_20MHz

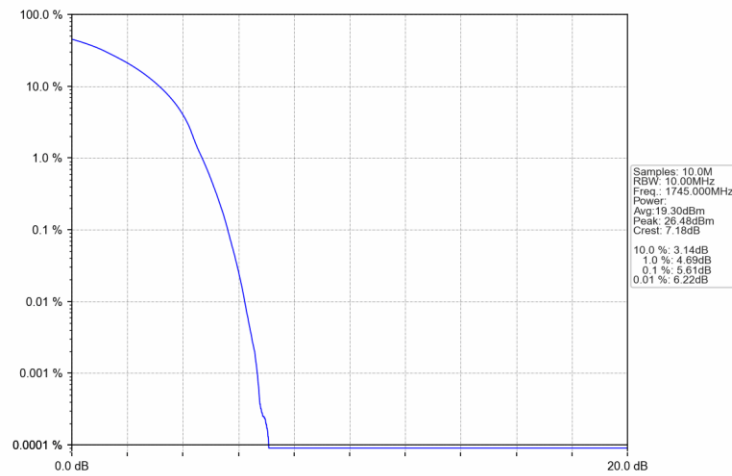
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTNV



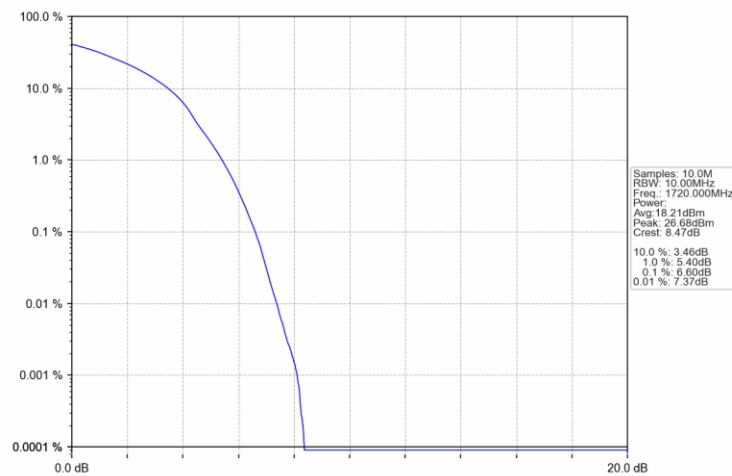
Band4 20MHz QPSK MCH 1732.5MHz RB 100 0 NTNV



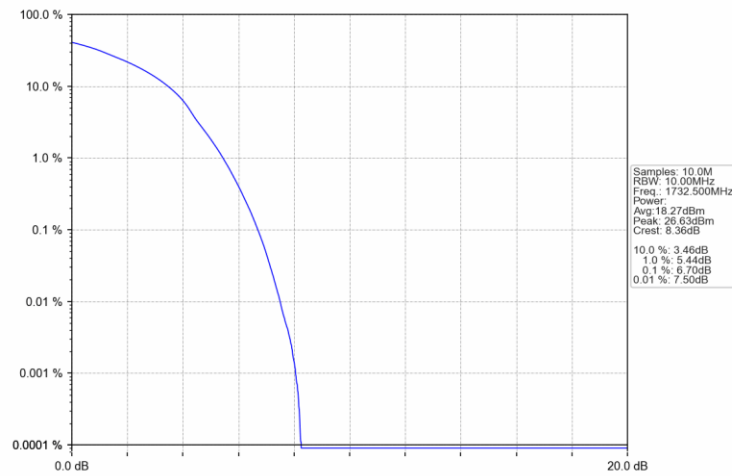
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



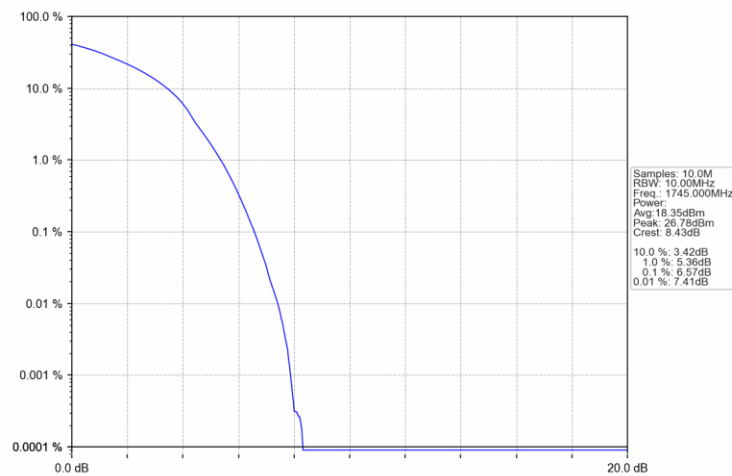
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



Band4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTNV



Band4 20MHz 16QAM HCH 1745MHz RB 100 0 NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
	1754.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	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
	1754.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass

6.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1711.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1753.5	1	0	Refer To Test Graph	Pass
			14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
16QAM	1711.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1753.5	1	0	Refer To Test Graph	Pass
			14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass

6.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1712.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1752.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
16QAM	1712.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

	1732.5	1	0	Refer To Test Graph	Pass
	1752.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B4_10MHz

Band: 4 / 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
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

6.1.5 B4_15MHz

Band: 4 / 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
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

6.1.6 B4_20MHz

Band: 4 / 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
	1732.5	1	0	Refer To Test Graph		Pass
		1745	1	0	Refer To Test Graph	
	99			Refer To Test Graph		Pass
	100		0	Refer To Test Graph		Pass
16QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1745	1	0	Refer To Test Graph	
	99			Refer To Test Graph		Pass

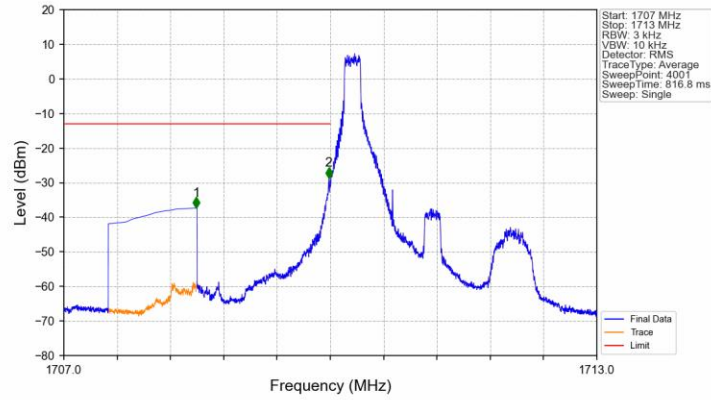


		100	0	Refer To Test Graph	Pass
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6.2 Test Graph

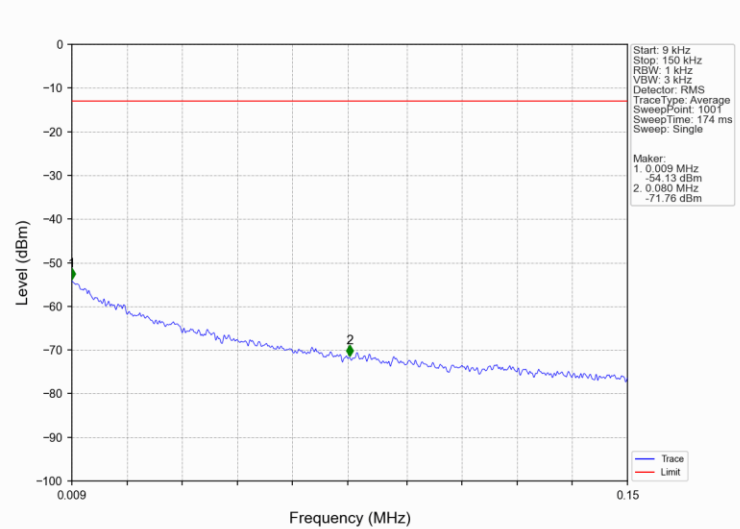
6.2.1 B4_1.4MHz

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

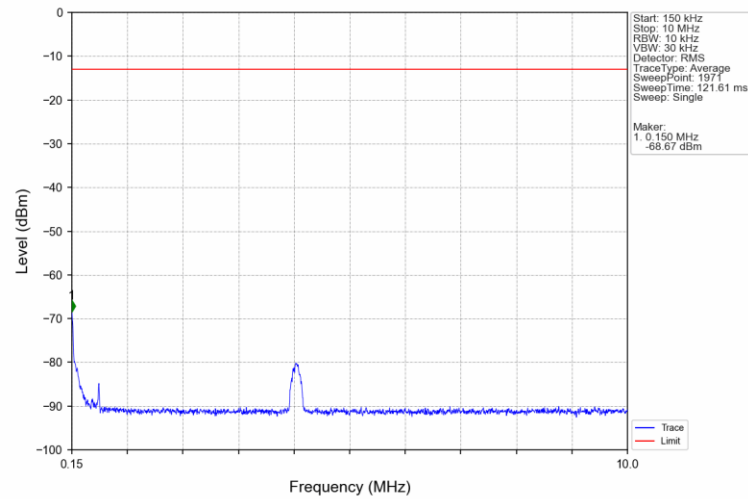


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.493	-37.34	-13	Pass
1709	1710	0.003	/	2	1709.984	-28.67	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

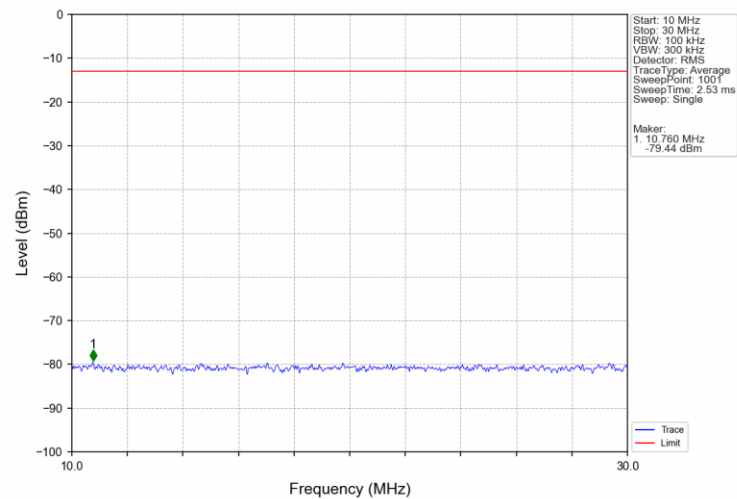
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



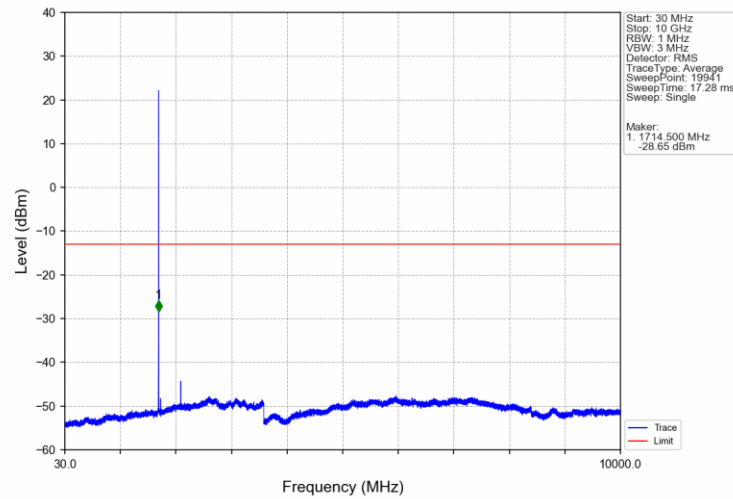
Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTV



Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTV



Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTV



Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTV

