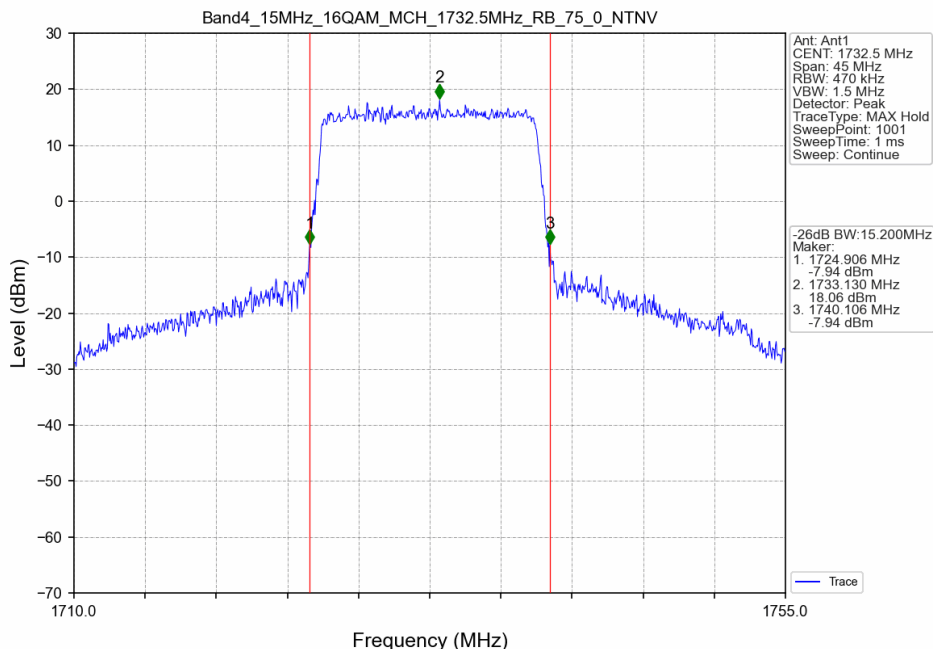
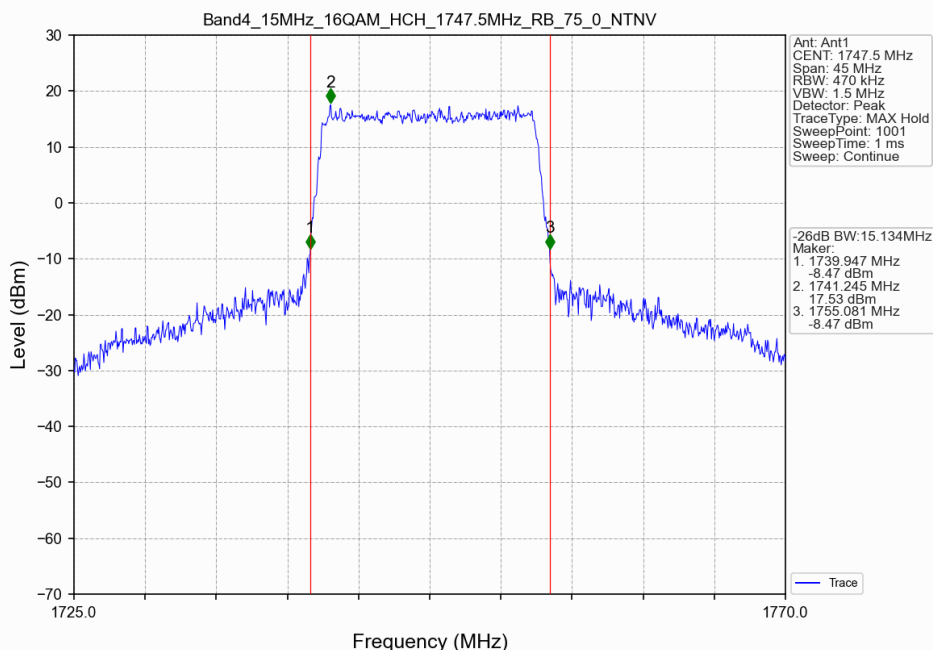


Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

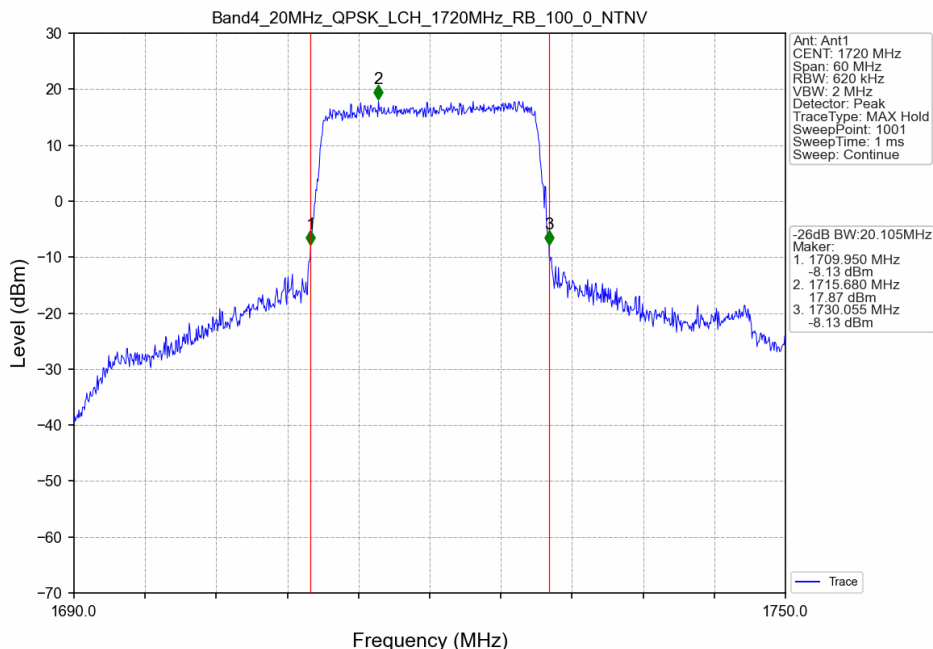


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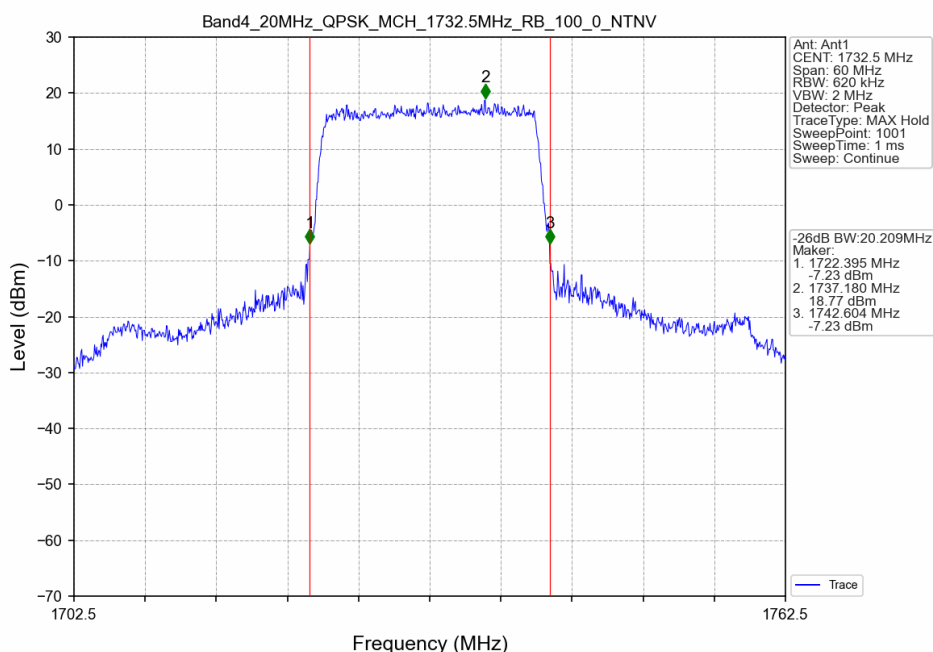
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Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV

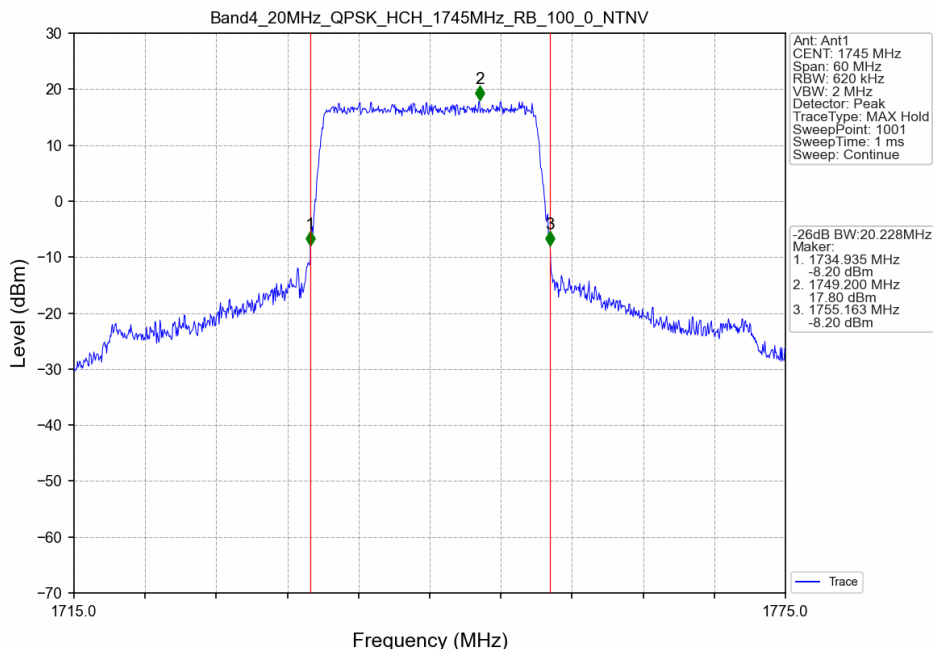


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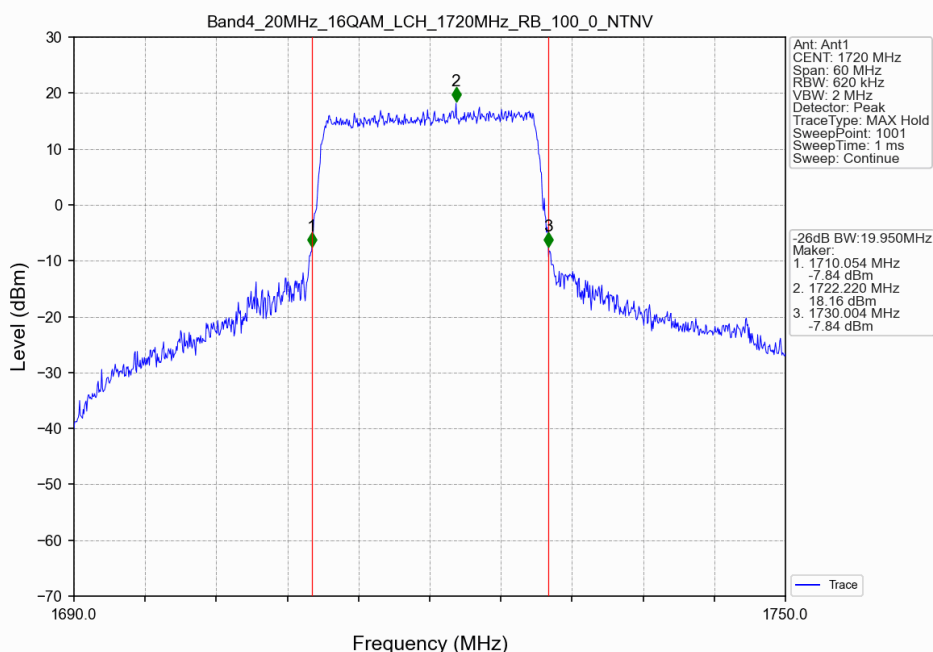
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

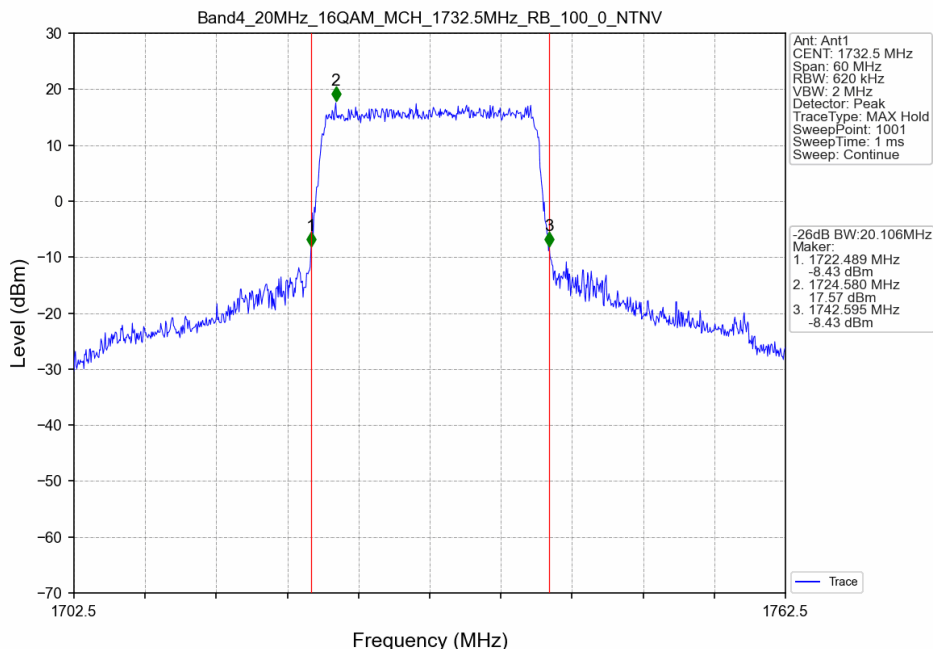


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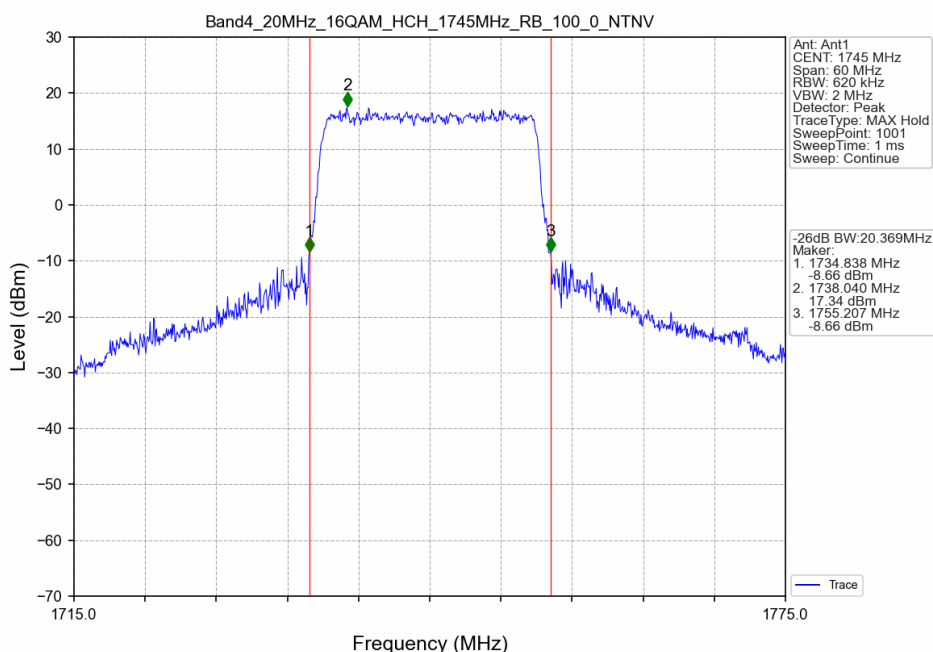
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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



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4. Peak-Average Ratio

4.1 Test Result

4.1.1 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	5.17	<=13	Pass
	1732.5	100	0	4.98	<=13	Pass
	1745	100	0	5.19	<=13	Pass
16QAM	1720	100	0	6.02	<=13	Pass
	1732.5	100	0	5.84	<=13	Pass
	1745	100	0	6.05	<=13	Pass



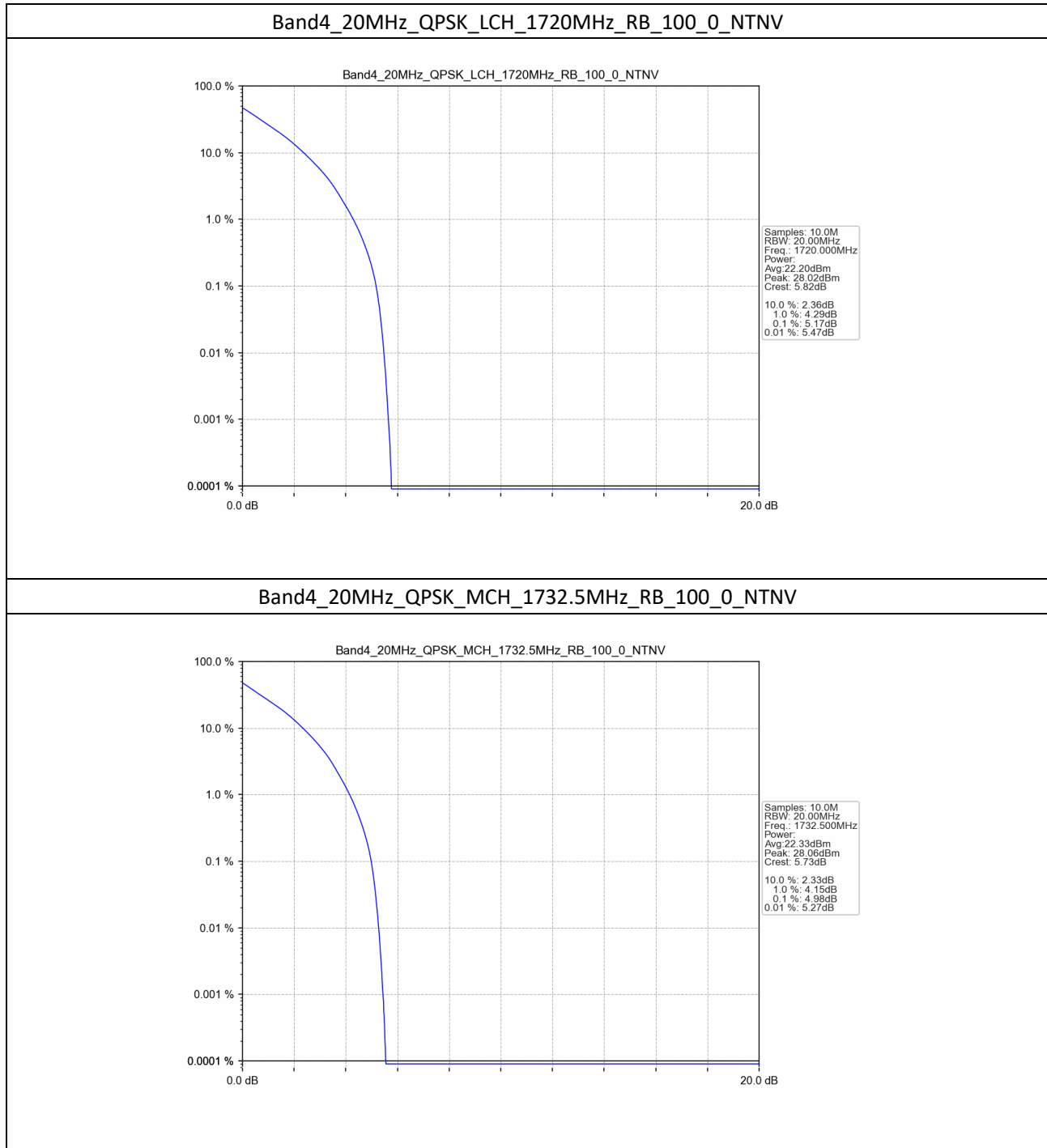
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4.2 Test Graph

4.2.1 B4_20MHz

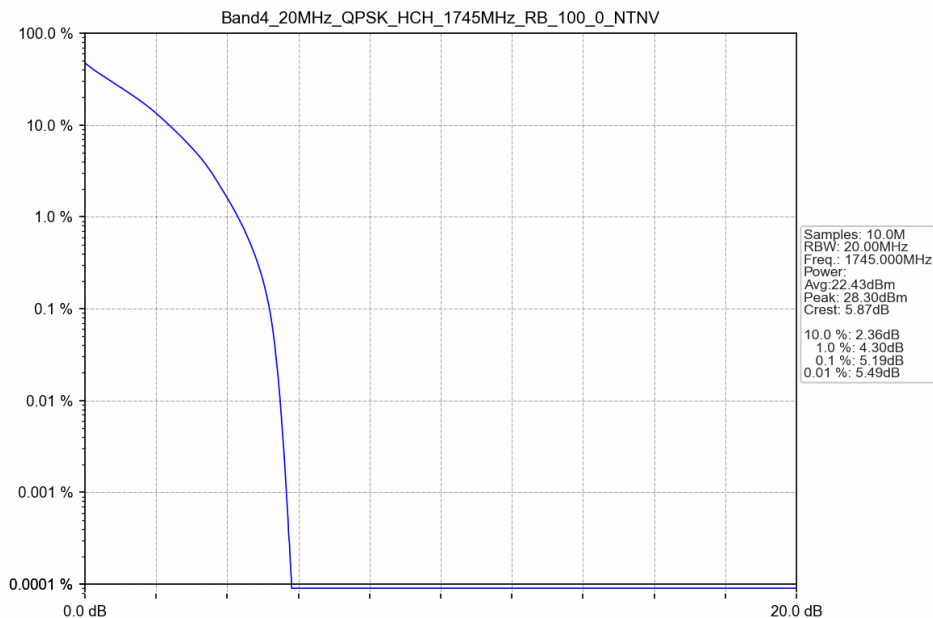


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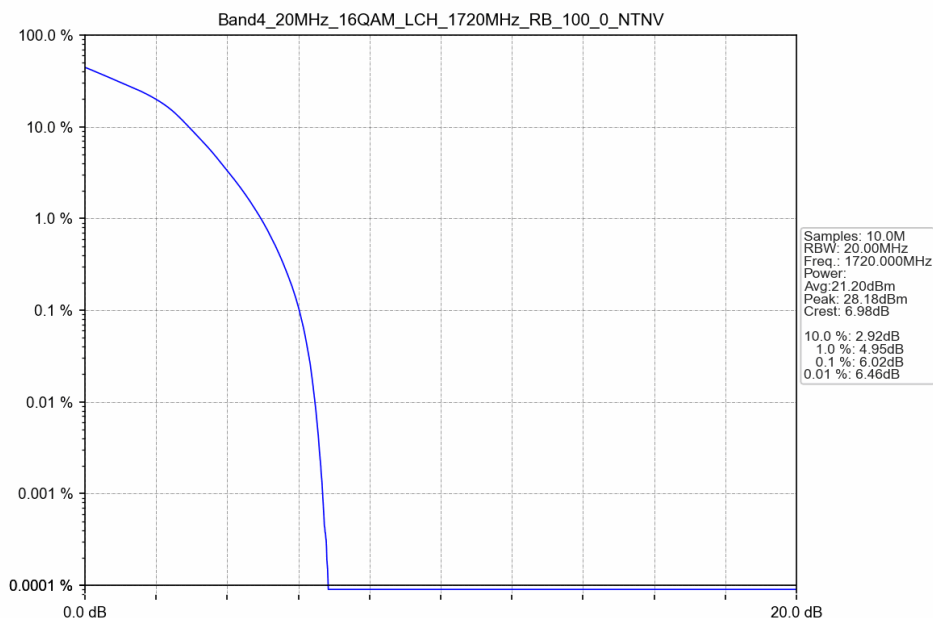
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

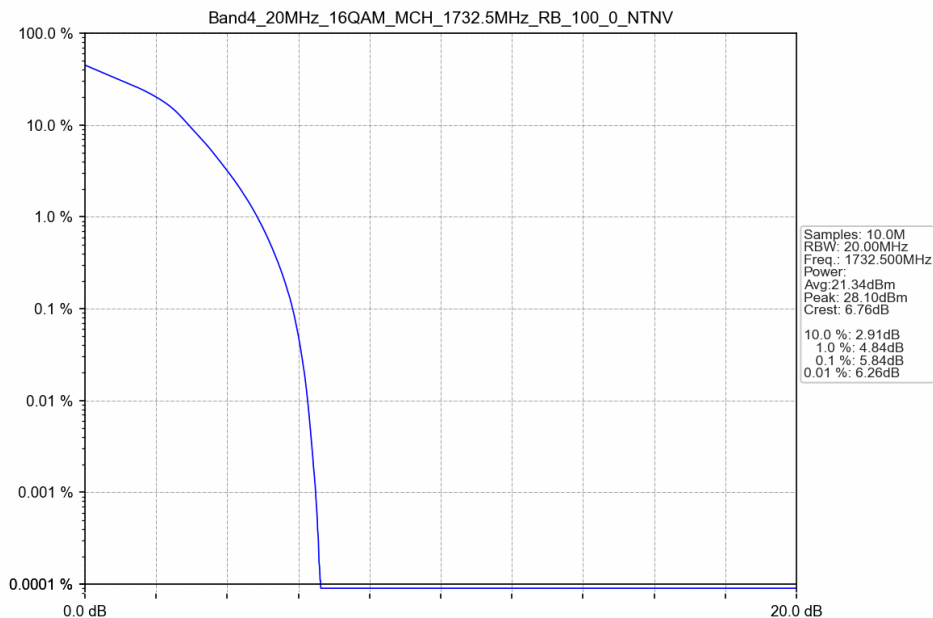


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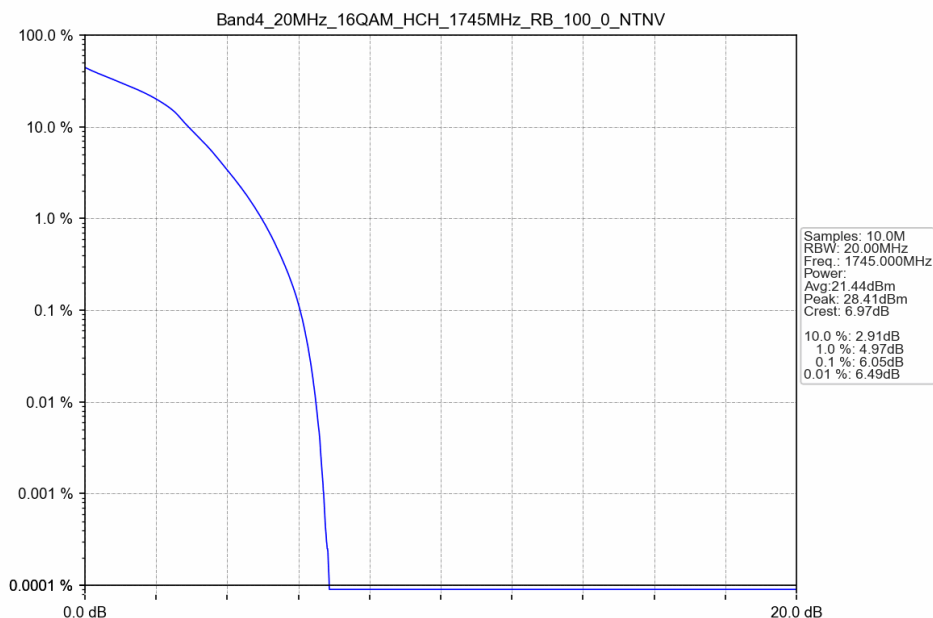
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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



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5. Spurious Emission

5.1 Test Result

5.1.1 B4_1.4MHz

Band: 4 / 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
	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

5.1.2 B4_3MHz

Band: 4 / 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
	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

5.1.3 B4_5MHz

Band: 4 / 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
	1732.5	1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass



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		24	Refer To Test Graph	Pass
	25	0	Refer To Test Graph	Pass

5.1.4 B4_10MHz

Band: 4 / 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
	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

5.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz / NTNV						
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

5.1.6 B4_20MHz

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



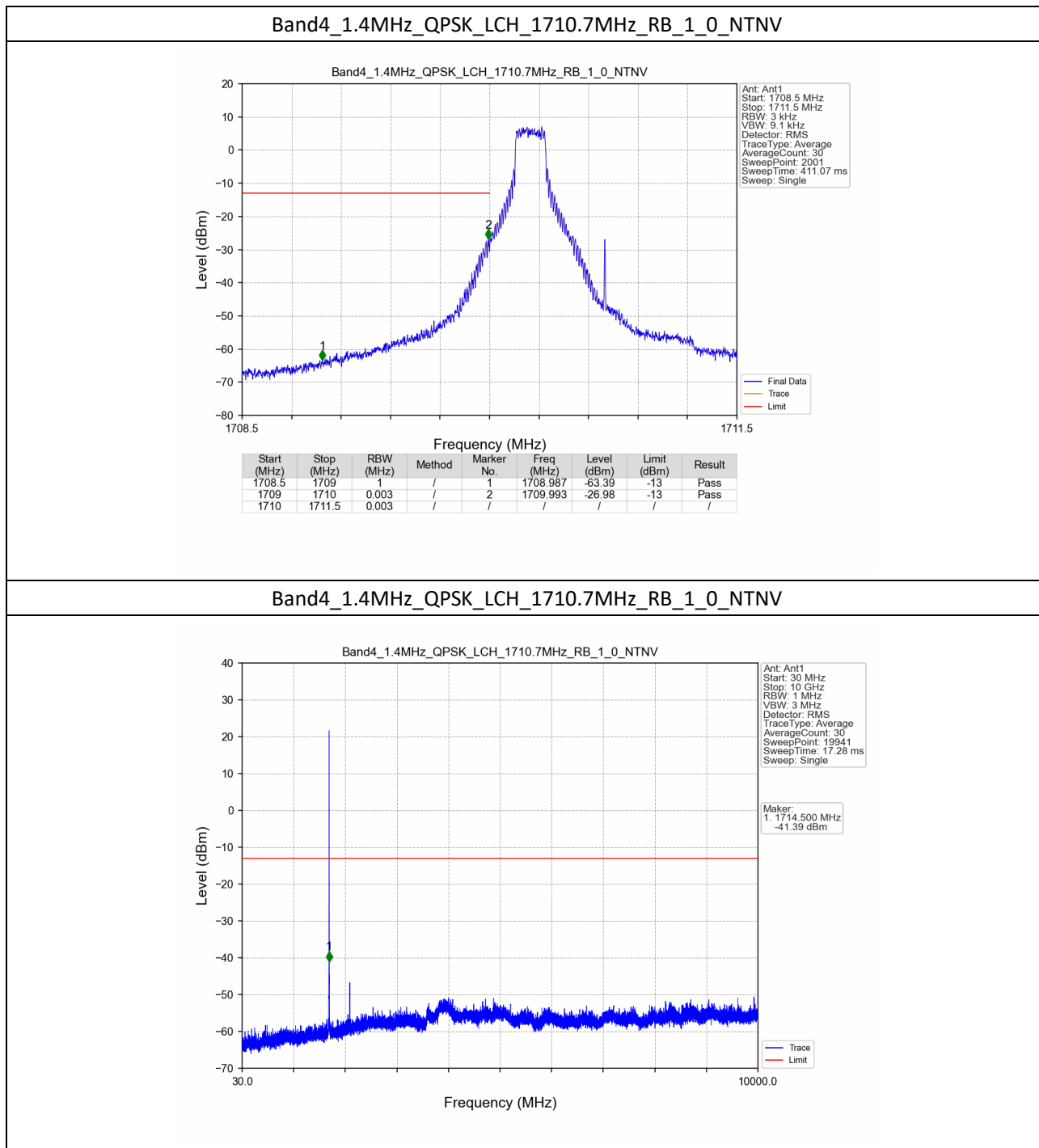
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5.2 Test Graph

5.2.1 B4_1.4MHz

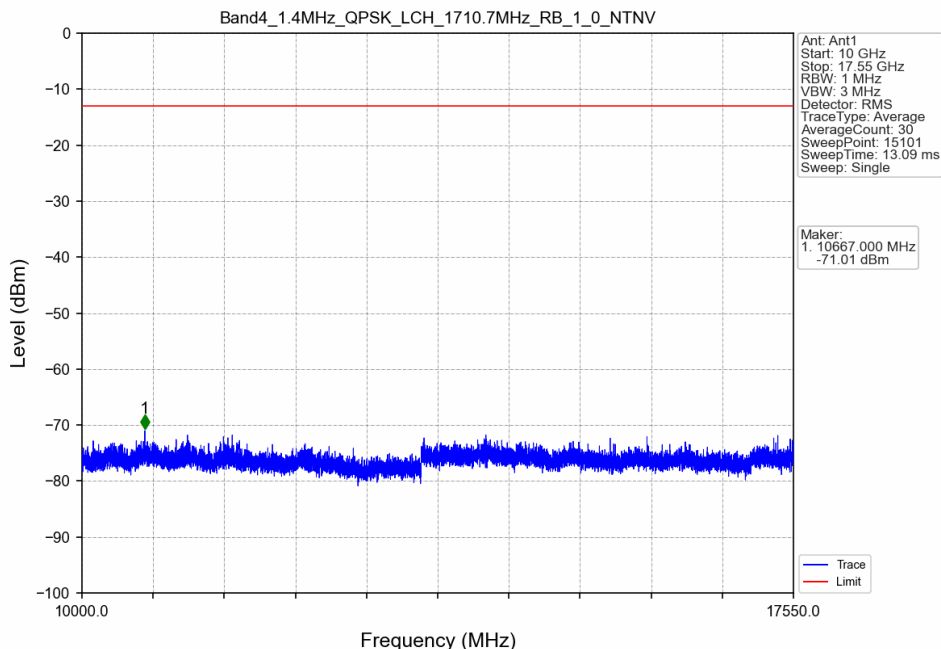


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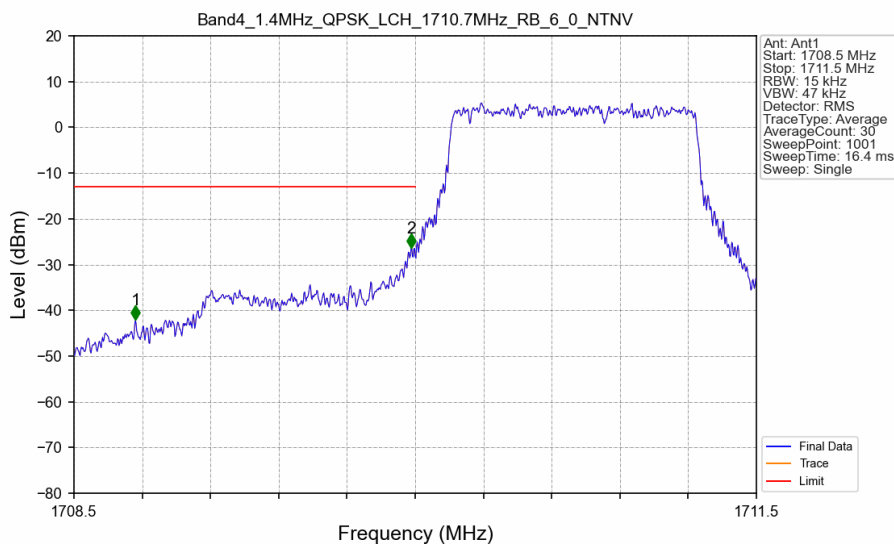
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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



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	0.015	/	1	1708.770	-42.14	-13	Pass
1709	1710	0.015	/	2	1709.982	-26.39	-13	Pass
1710	1711.5	0.015	/	/	/	/	/	/

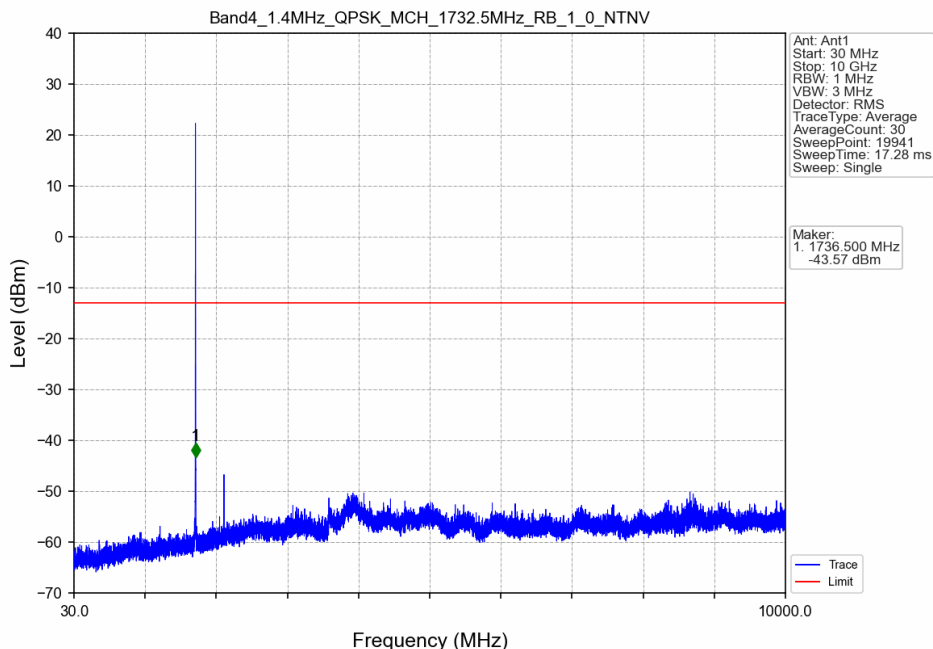


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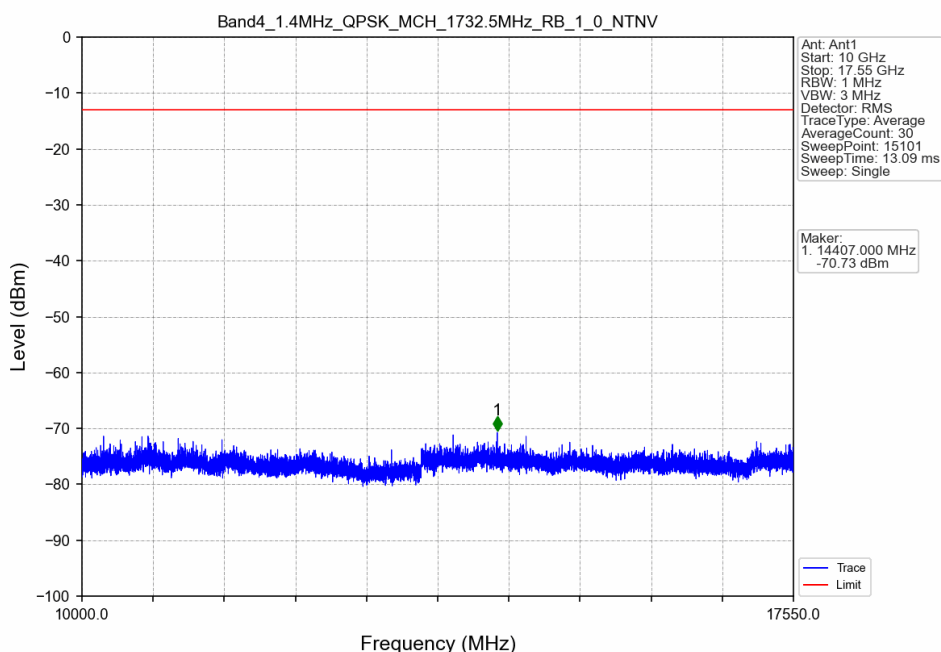
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

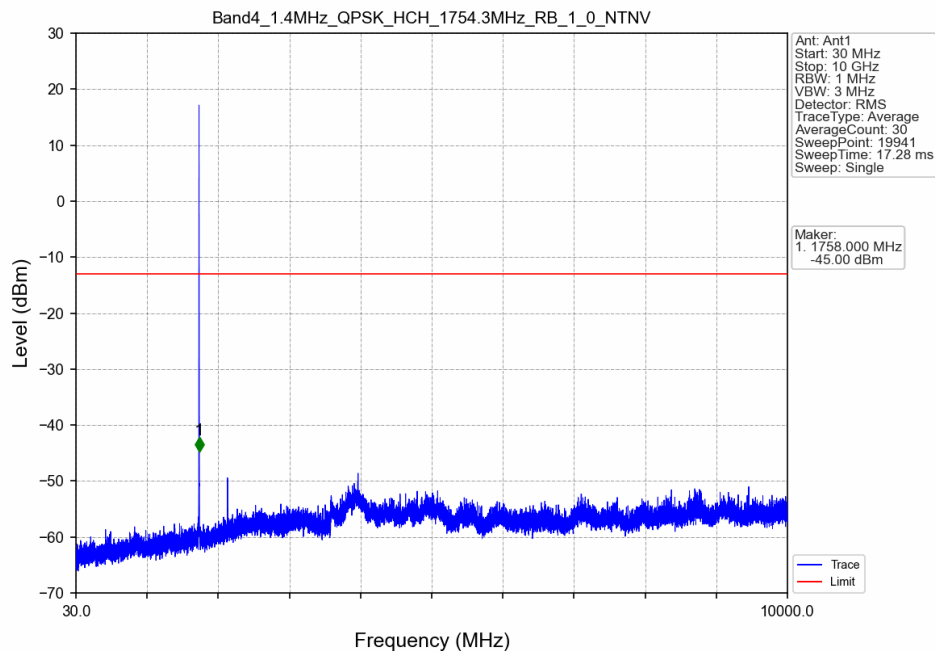


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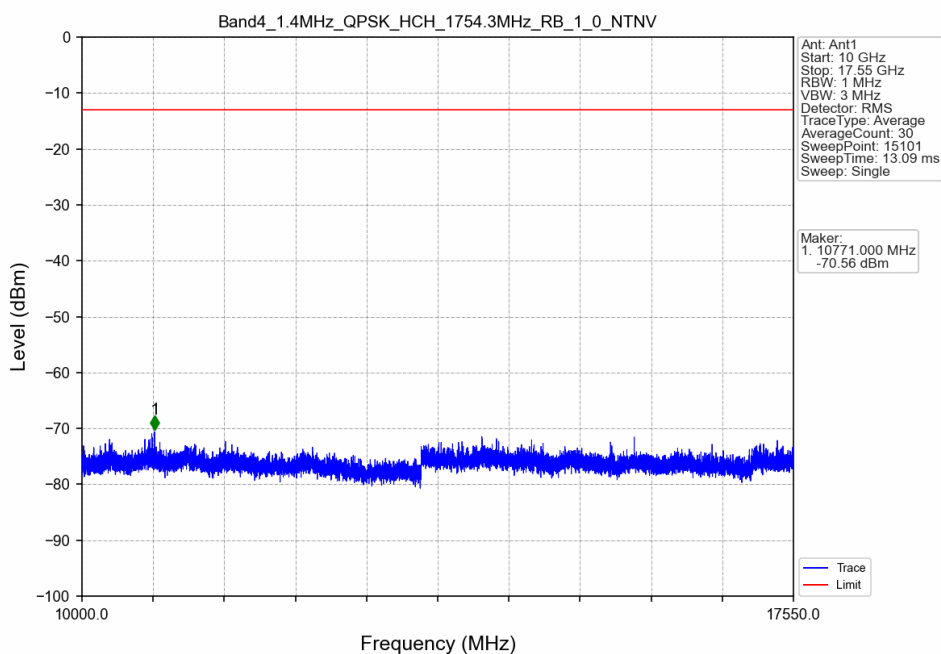
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

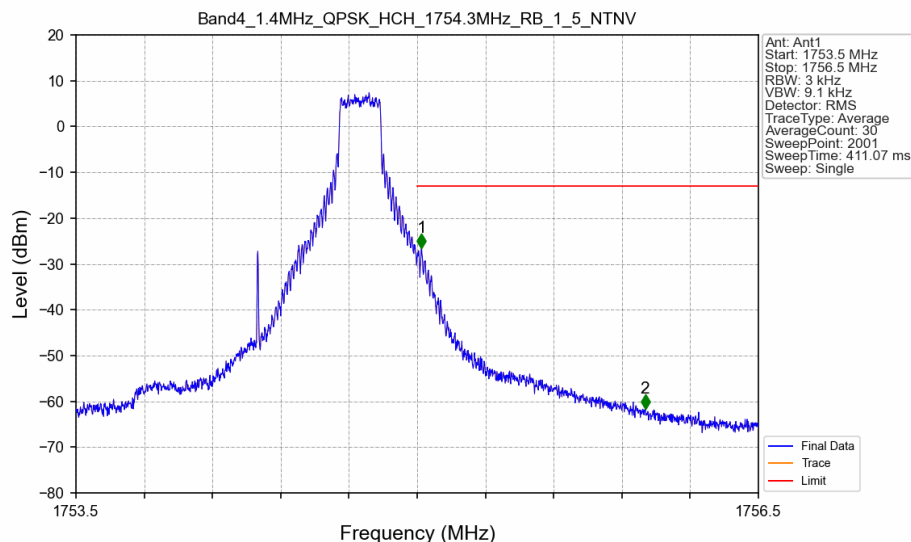


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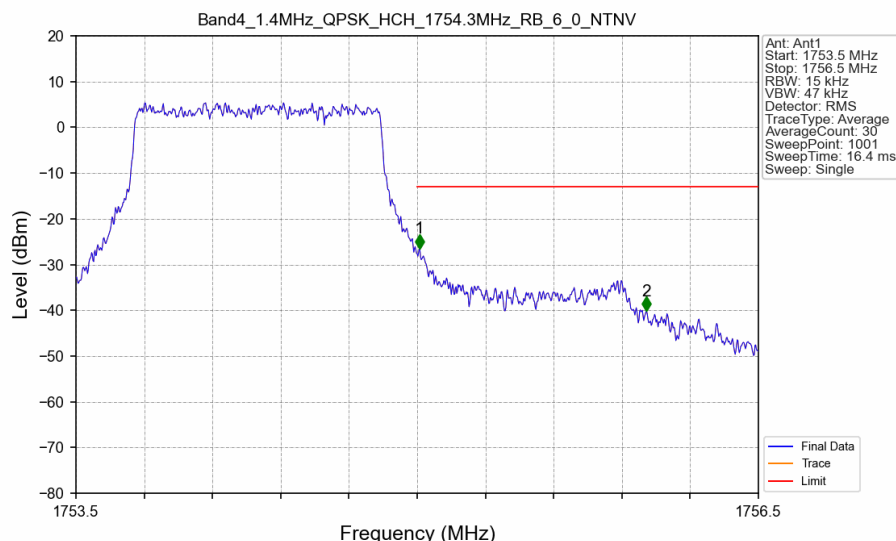
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV

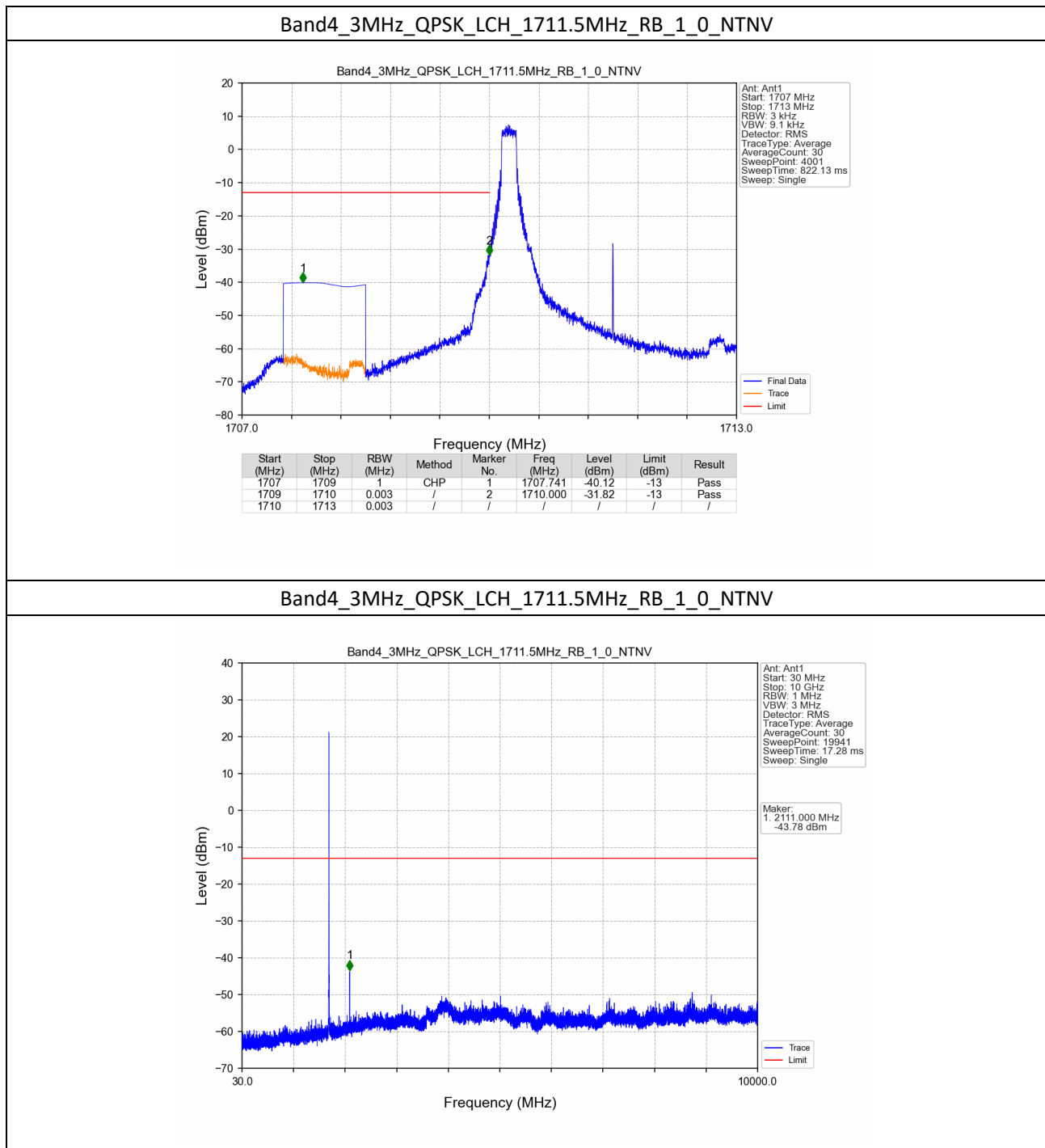


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5.2.2 B4_3MHz

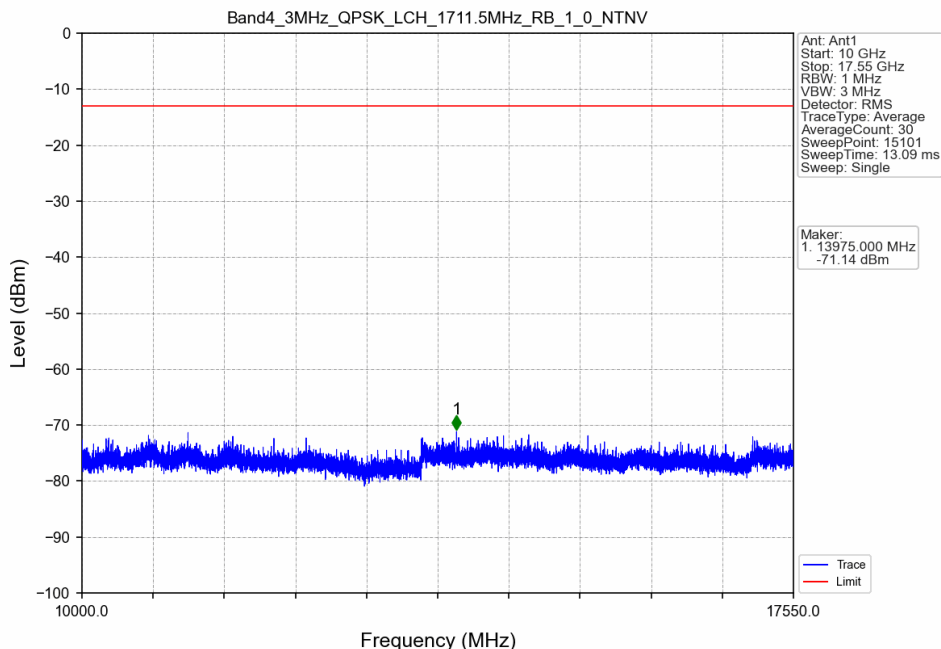


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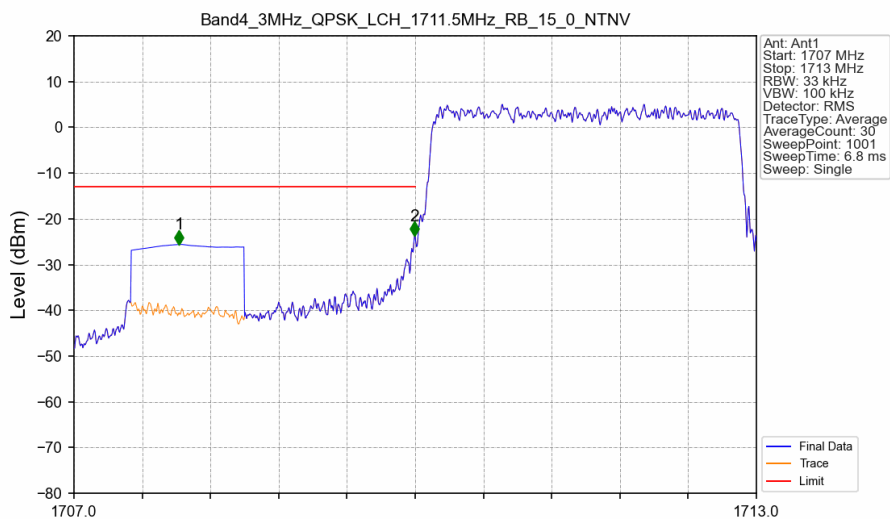
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Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1707.924	-25.61	-13	Pass
1709	1710	0.033	/	2	1709.994	-23.76	-13	Pass
1710	1713	0.033	/	/	/	/	/	/

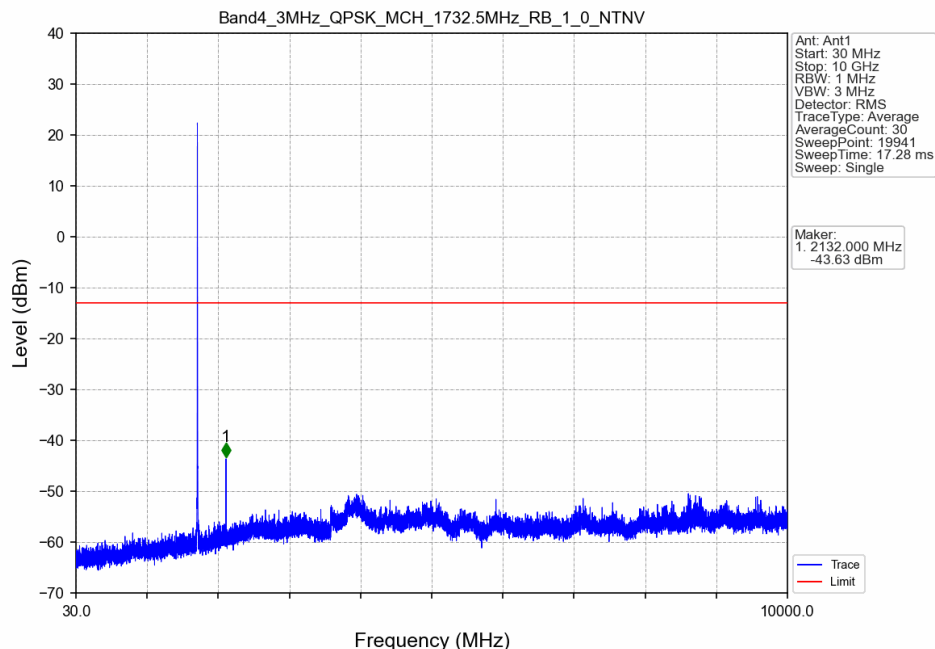


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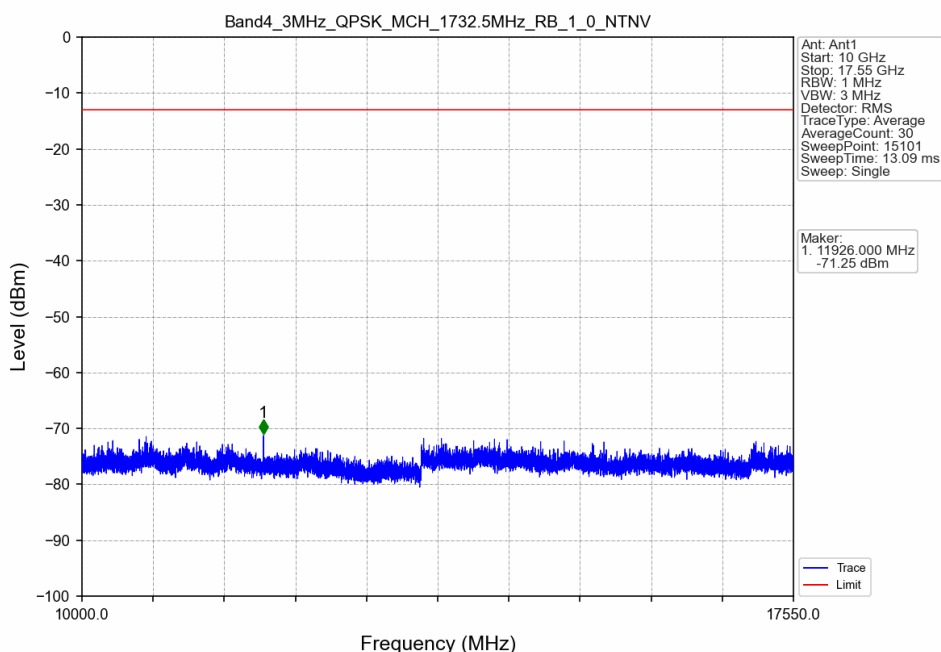
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Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

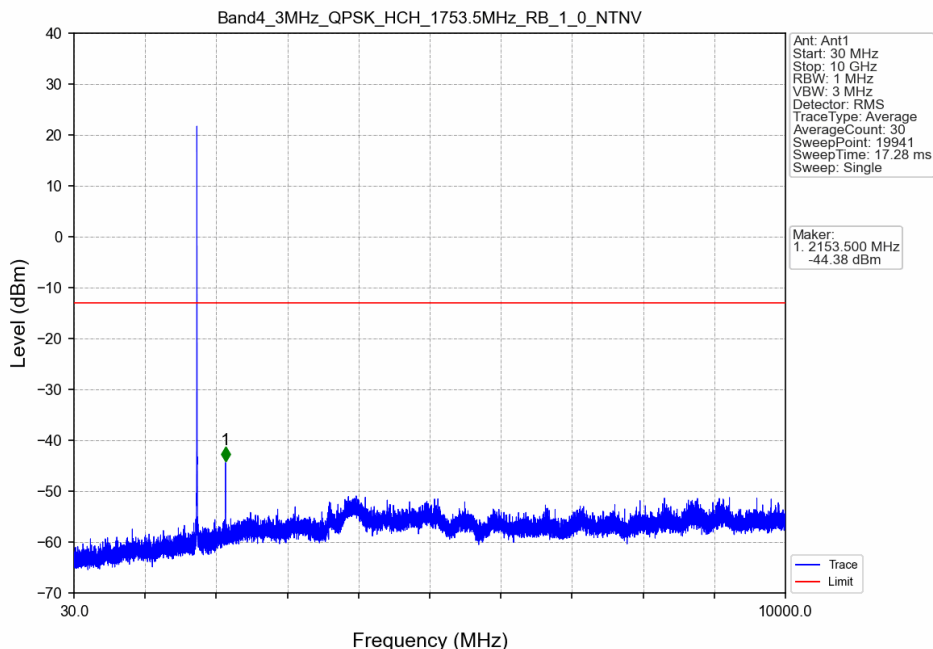


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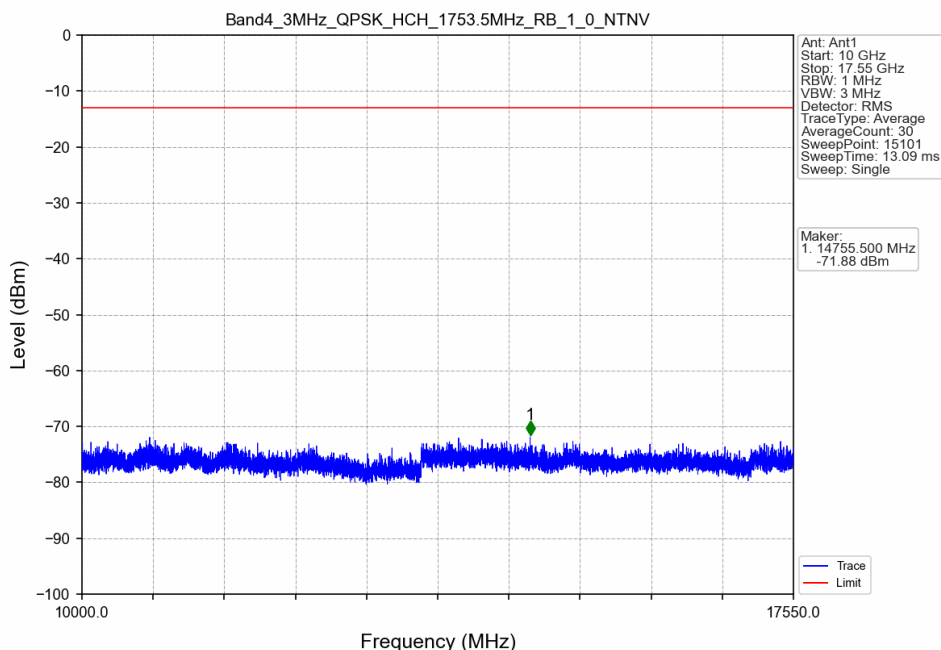
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV

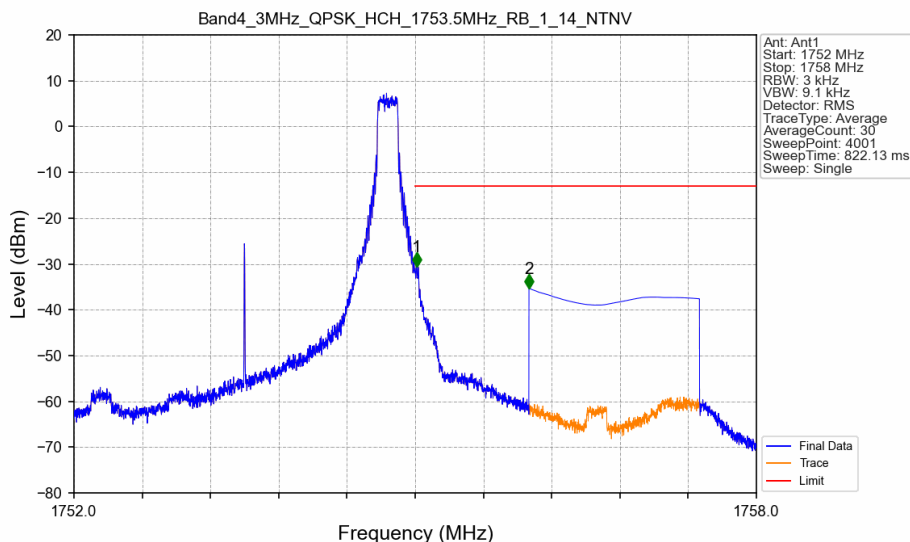


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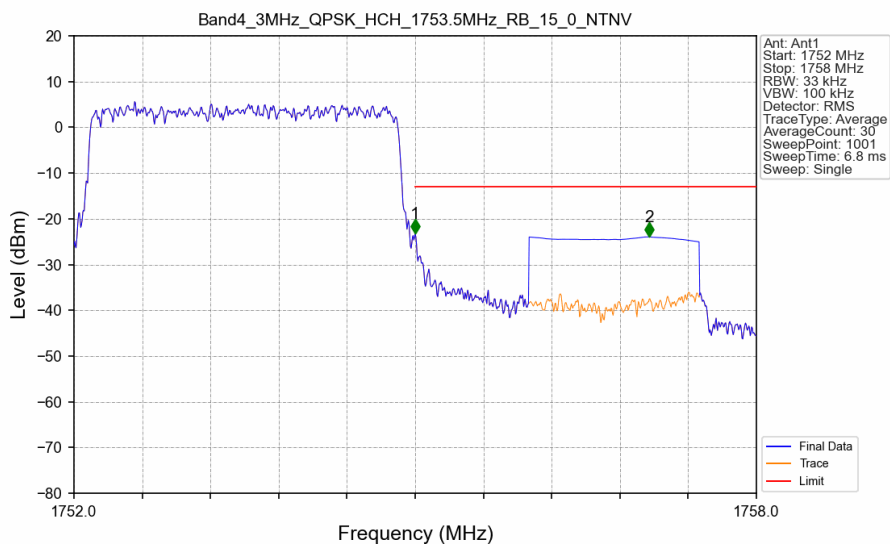
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



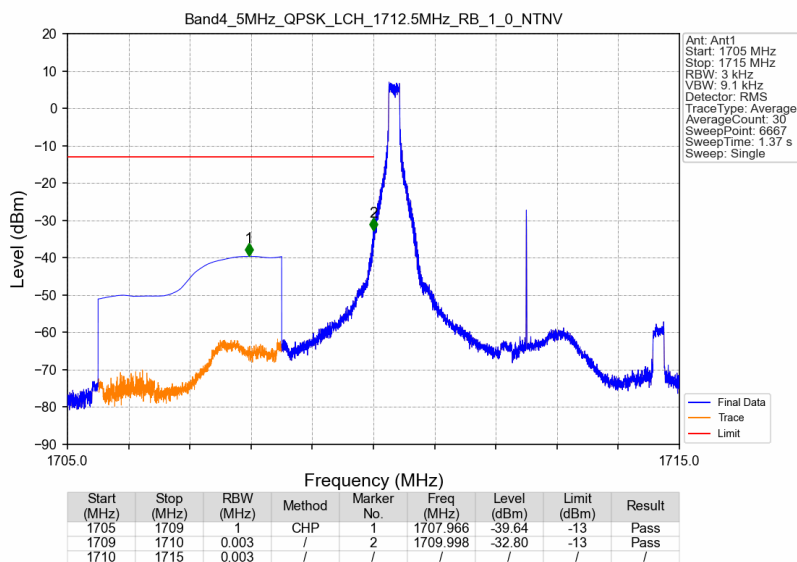
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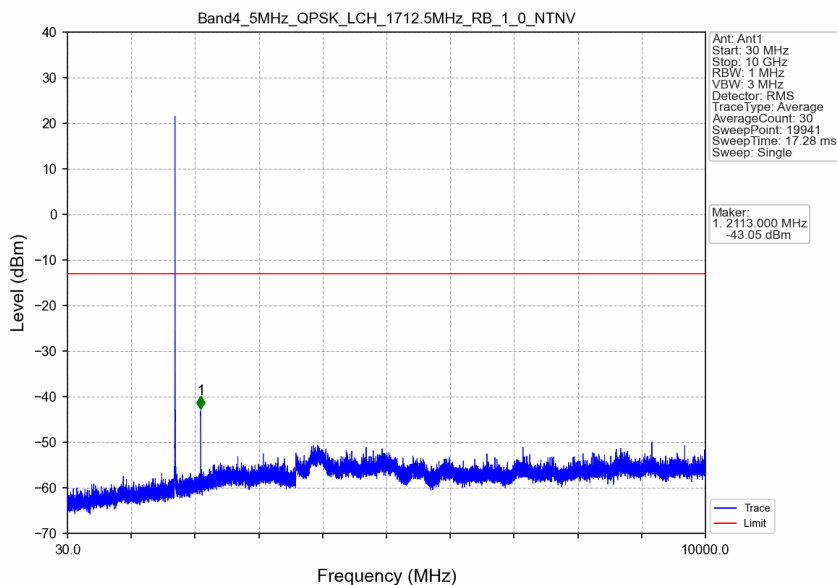
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5.2.3 B4_5MHz

Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV

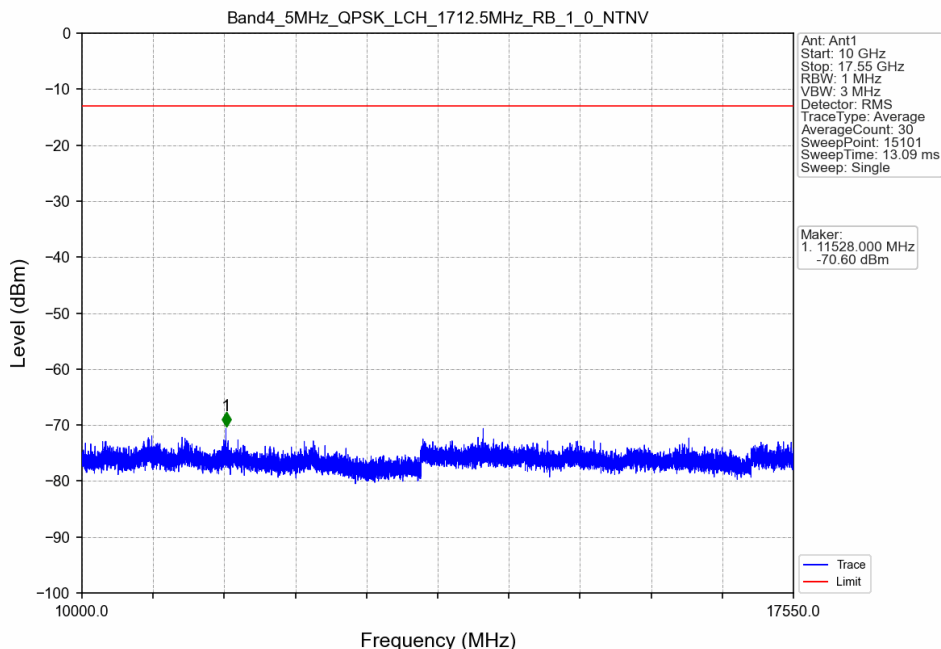


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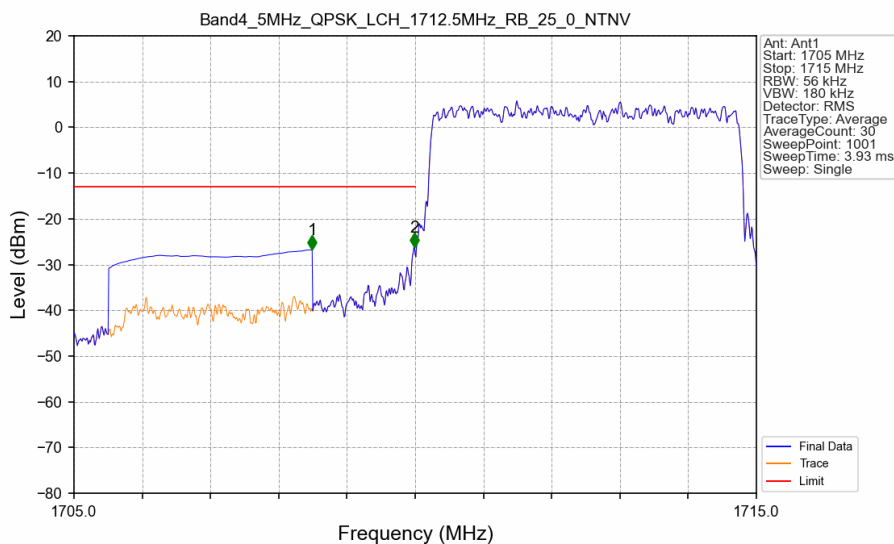
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Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.490	-26.80	-13	Pass
1709	1710	0.056	/	2	1709.990	-26.20	-13	Pass
1710	1715	0.056	/	/	/	/	/	/

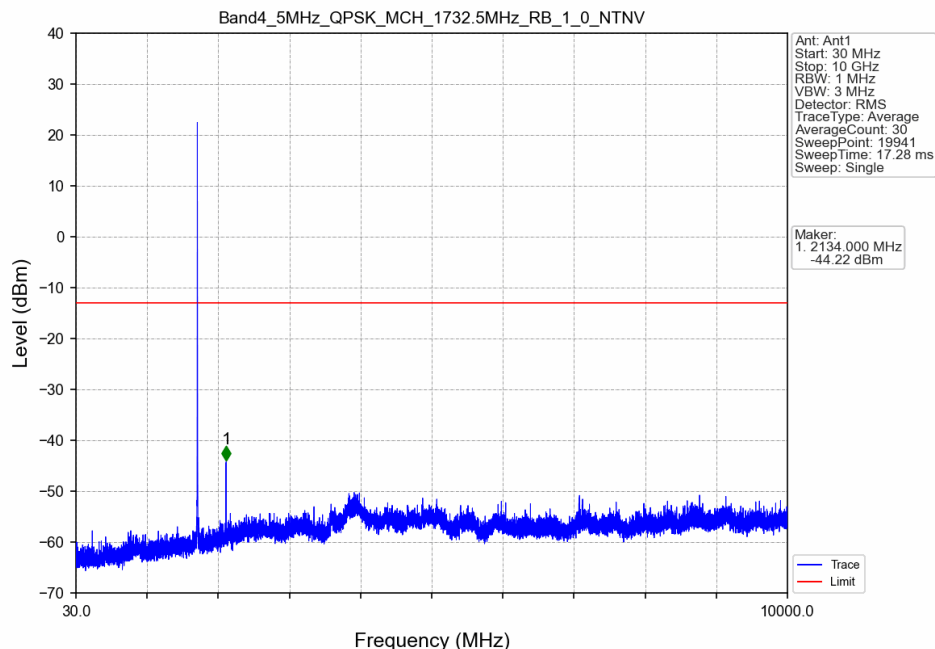


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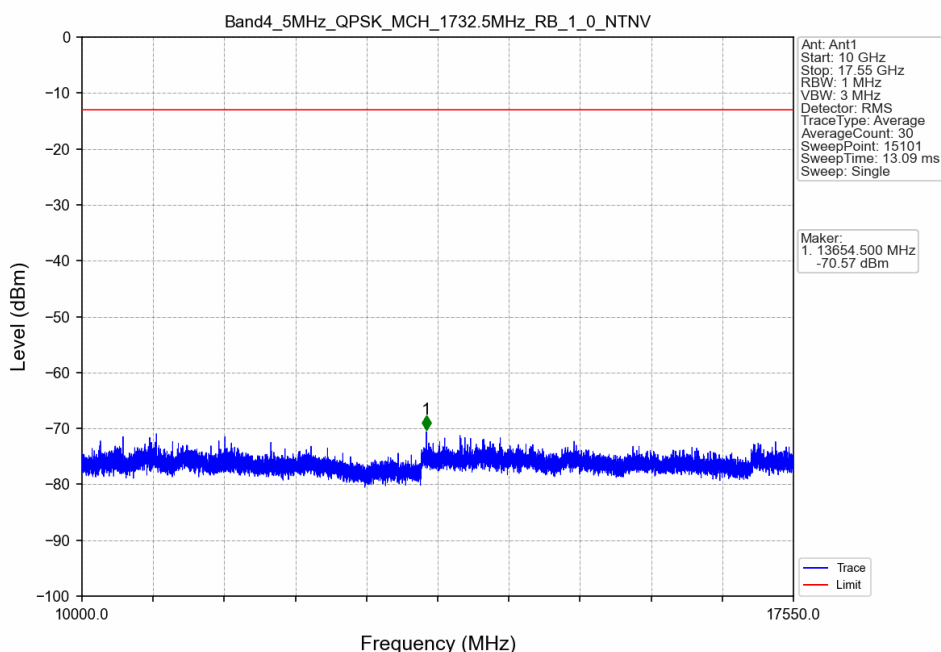
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Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

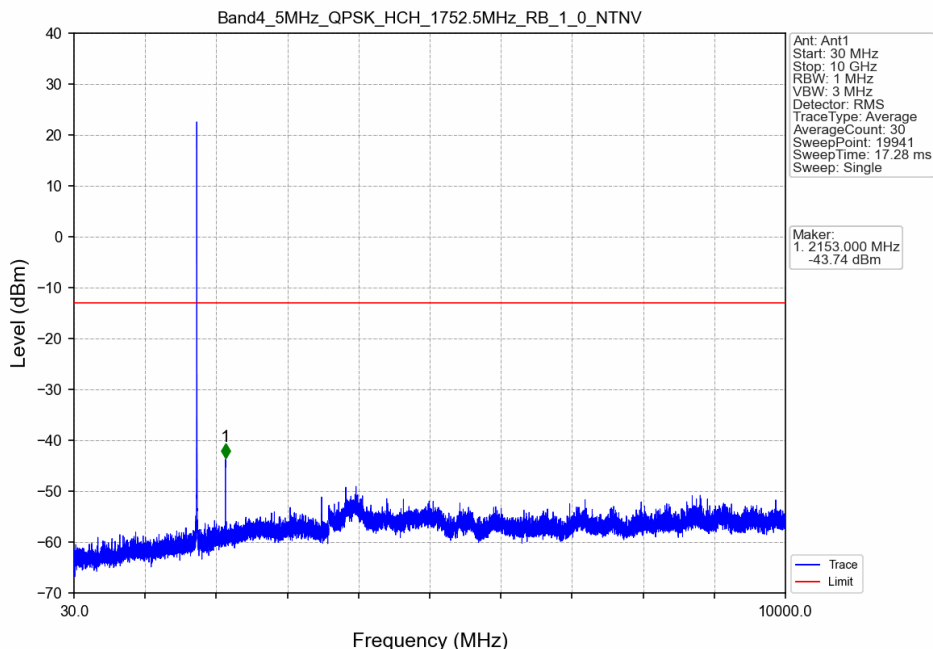


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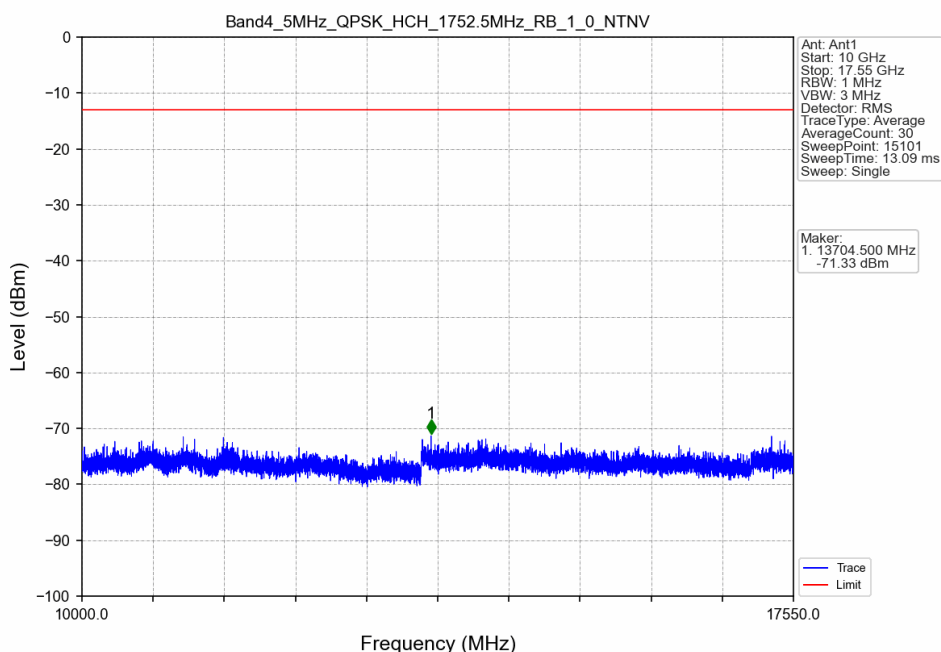
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV

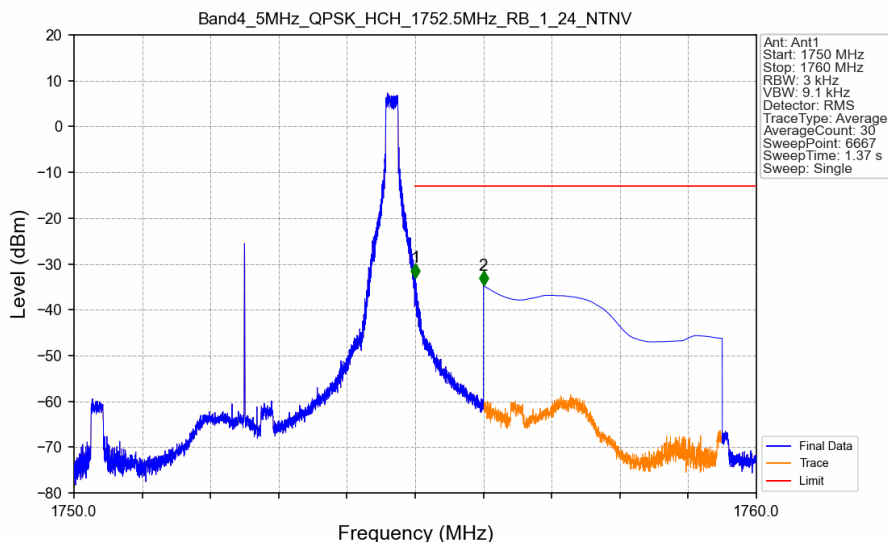


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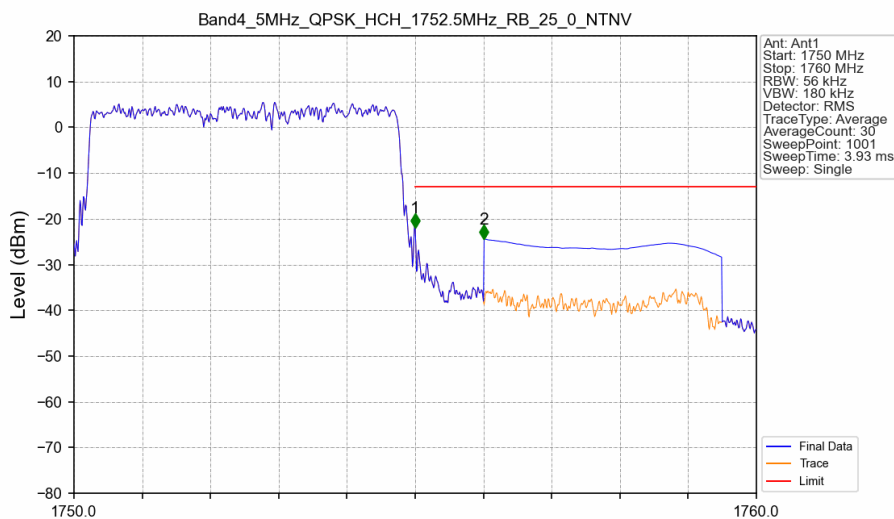
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	1	1755.002	-32.99	-13	Pass
1755	1756	0.003	/	2	1756.001	-34.74	-13	Pass
1756	1760	1	CHP					

Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.056	/	1	1755.000	-22.03	-13	Pass
1755	1756	0.056	/	2	1756.010	-24.40	-13	Pass
1756	1760	1	CHP					



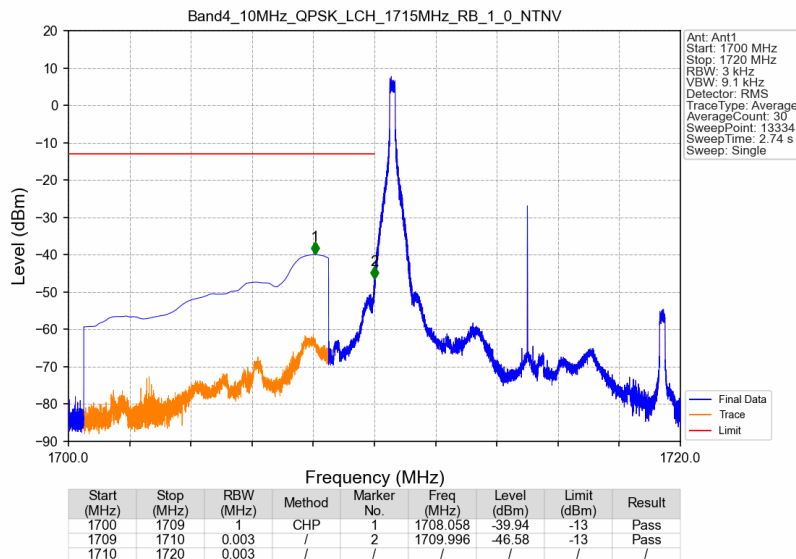
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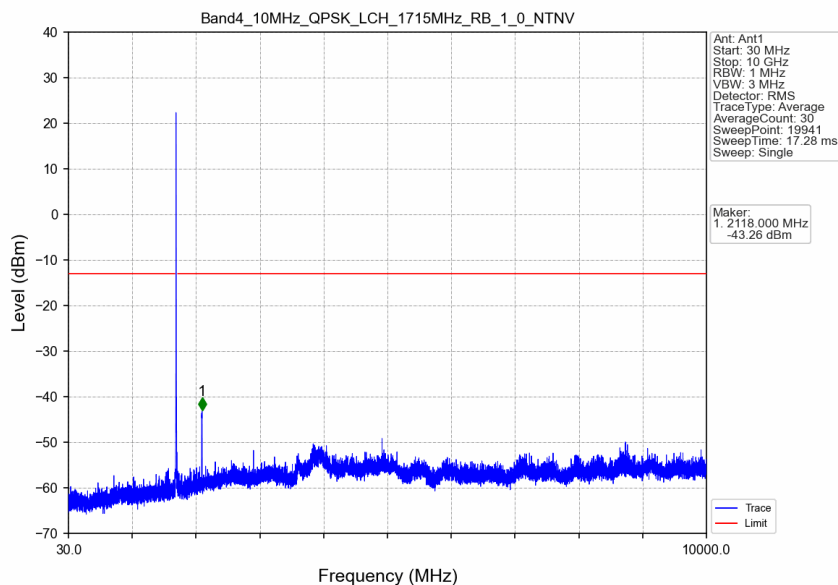
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5.2.4 B4_10MHz

Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV

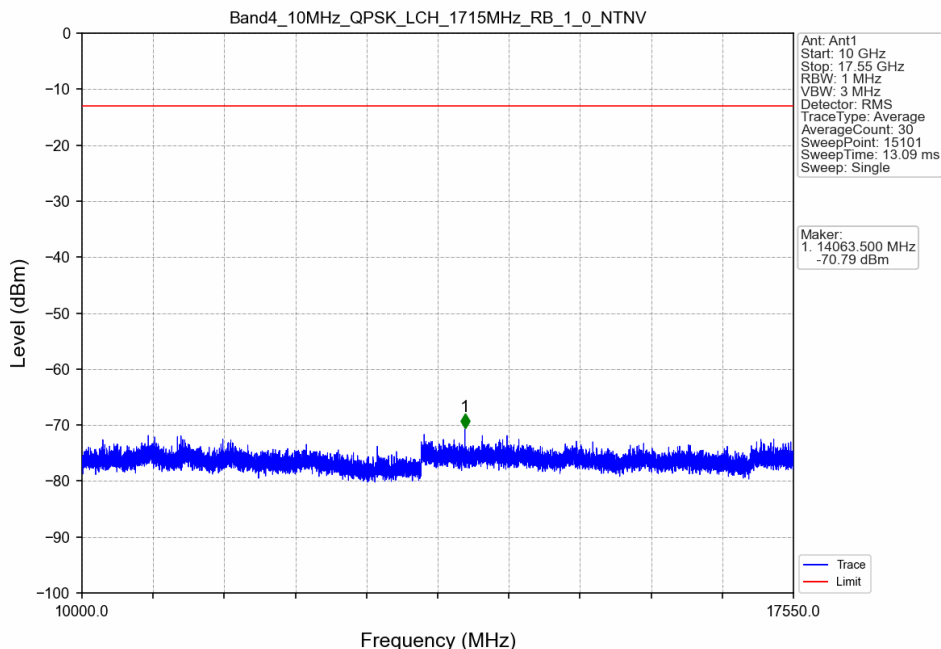


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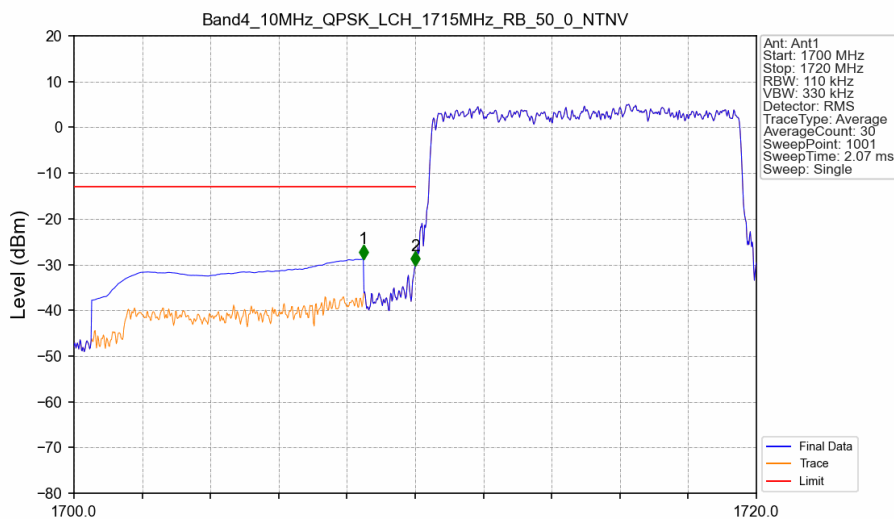
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Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.480	-28.78	-13	Pass
1709	1710	0.11	/	2	1710.000	-30.26	-13	Pass
1710	1720	0.11	/	/	/	/	/	/

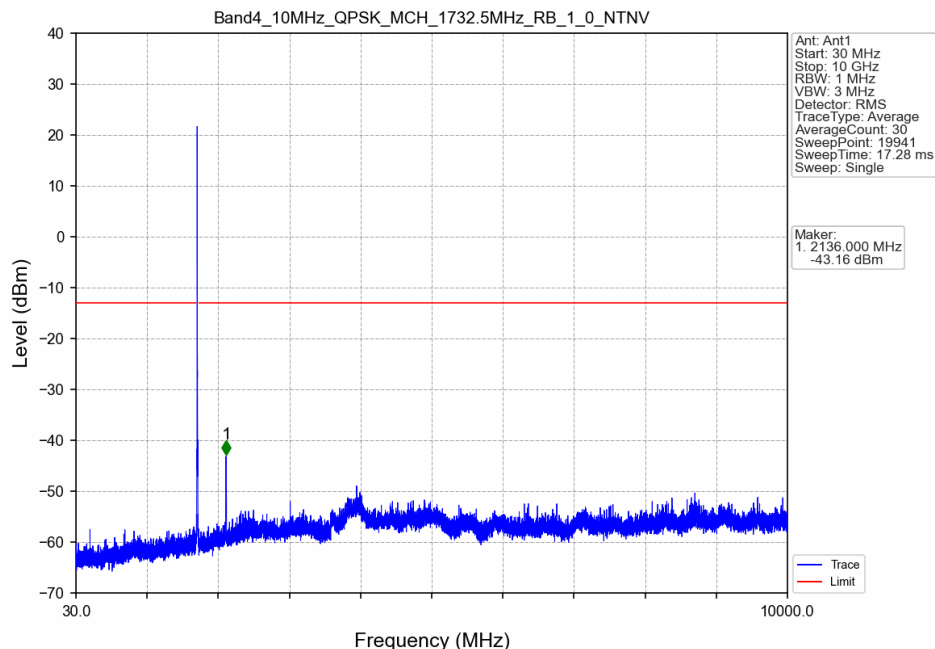


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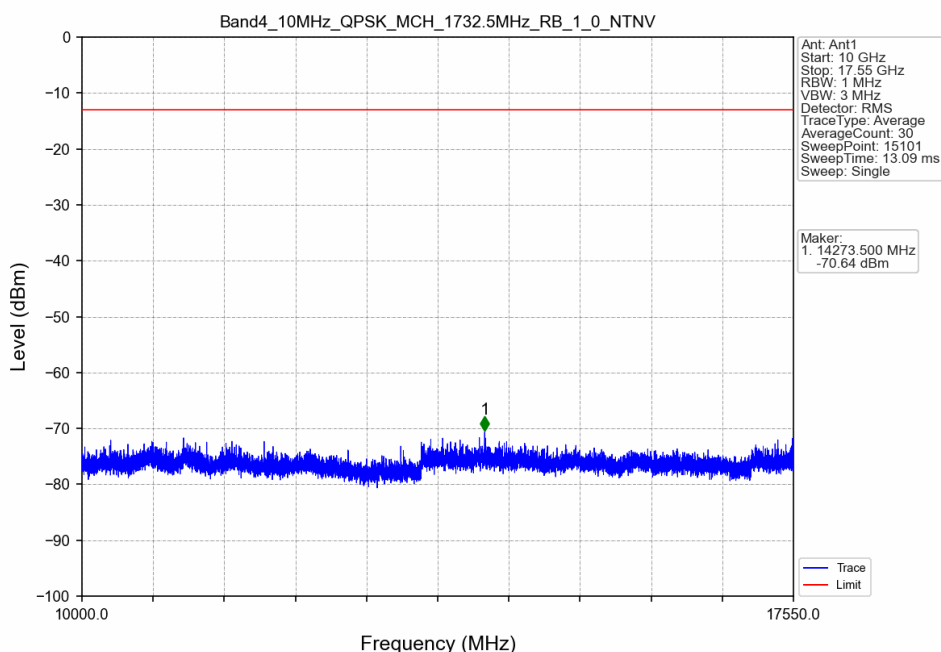
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Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

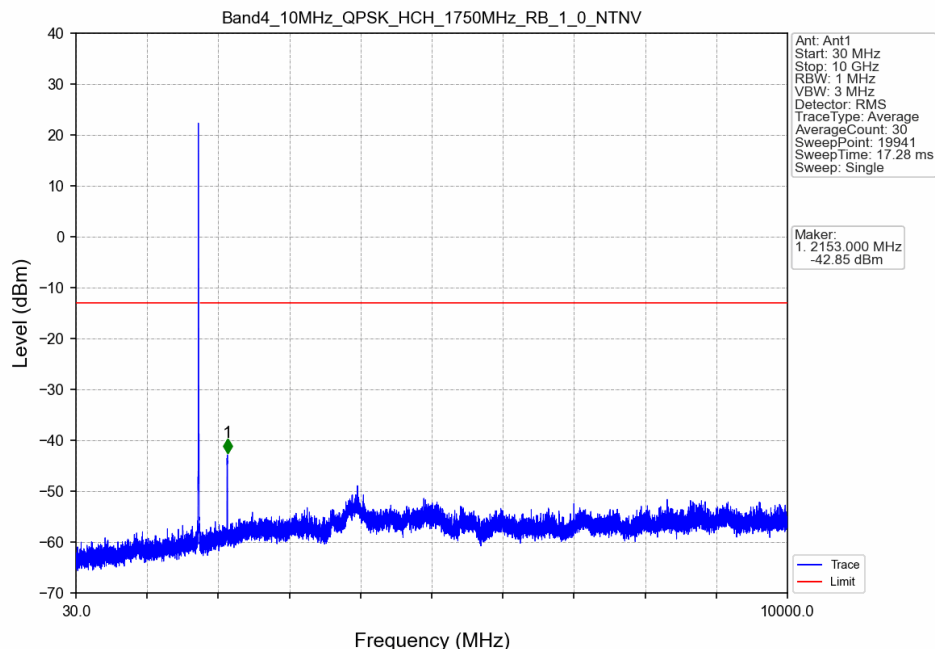


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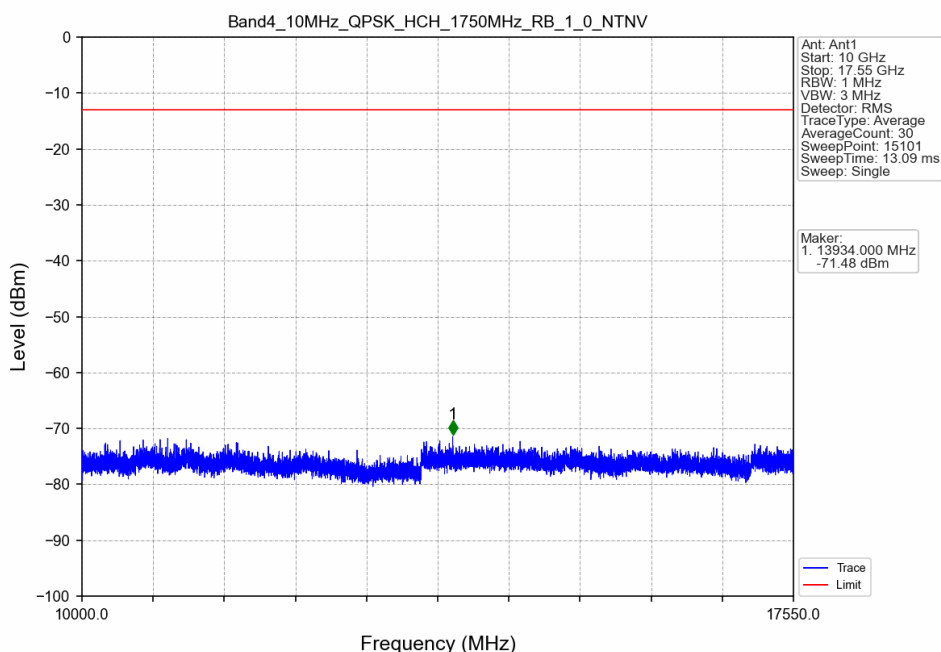
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Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV

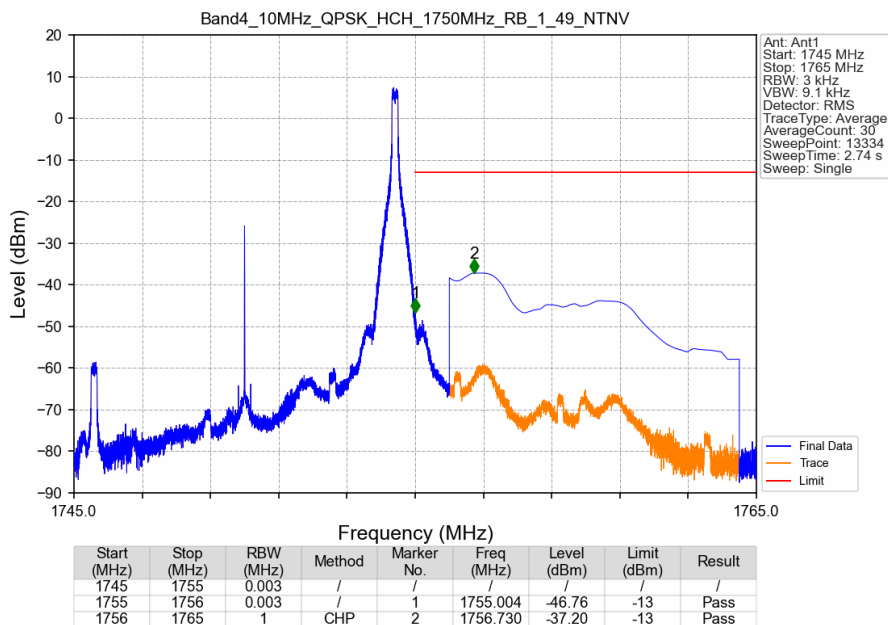


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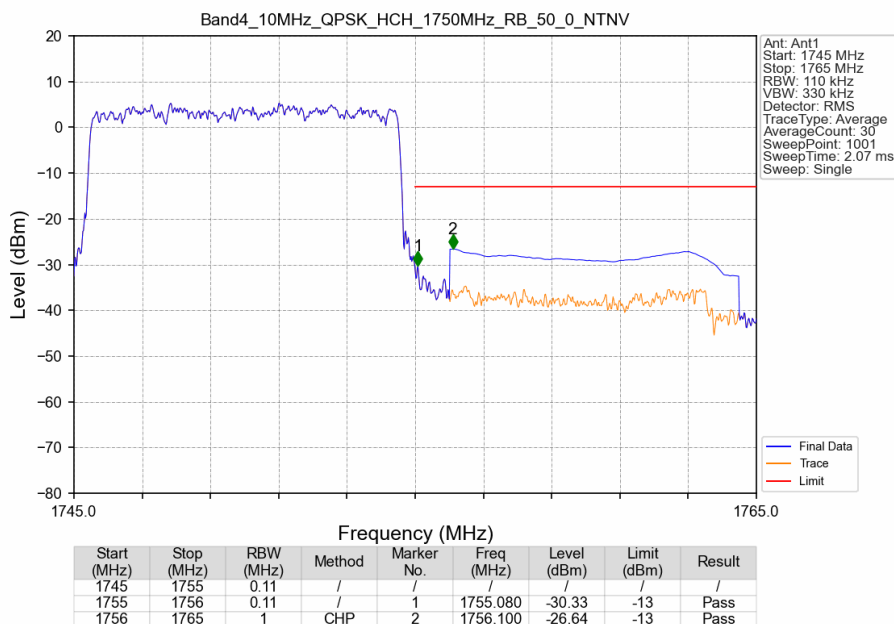
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Band4_10MHz_QPSK_HCH_1750MHz_RB_1_49_NTNV



Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



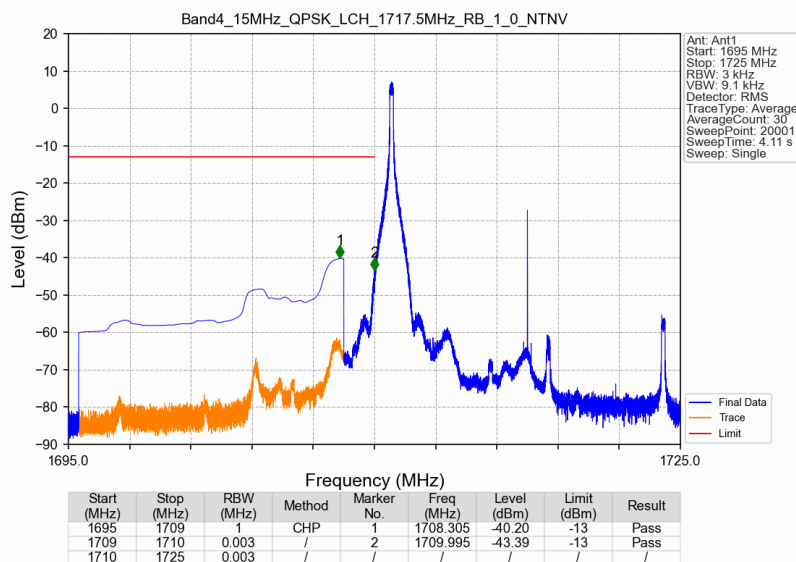
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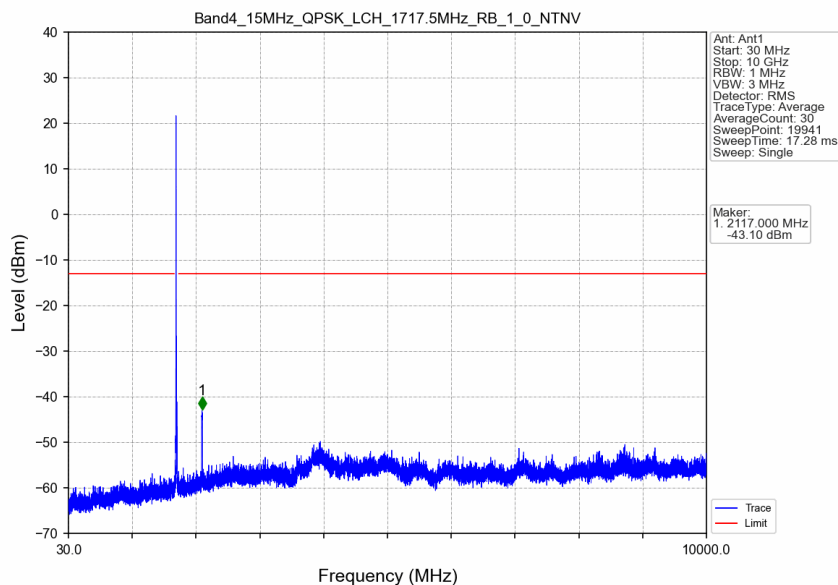
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5.2.5 B4_15MHz

Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV

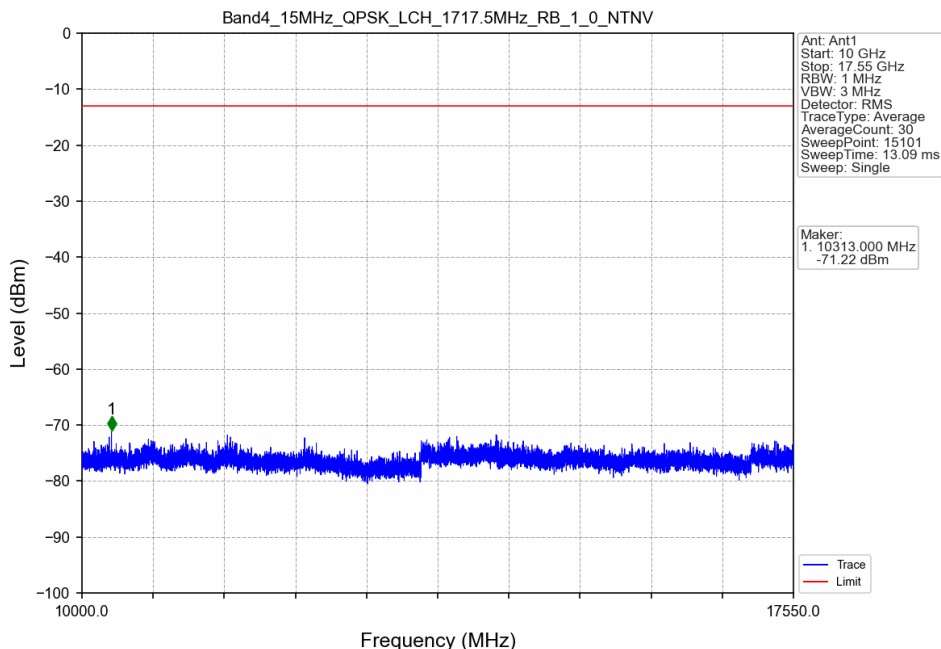


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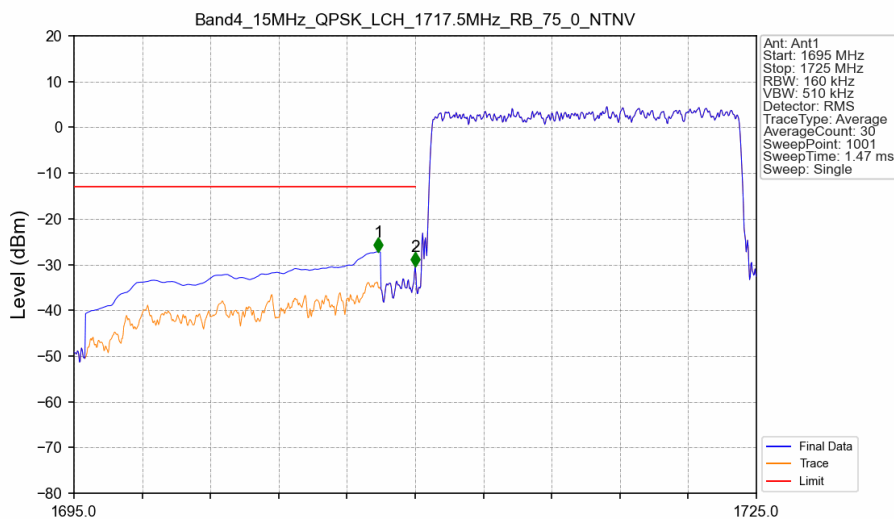
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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.380	-27.21	-13	Pass
1709	1710	0.16	/	2	1710.000	-30.45	-13	Pass
1710	1725	0.16	/	/	/	/	/	/

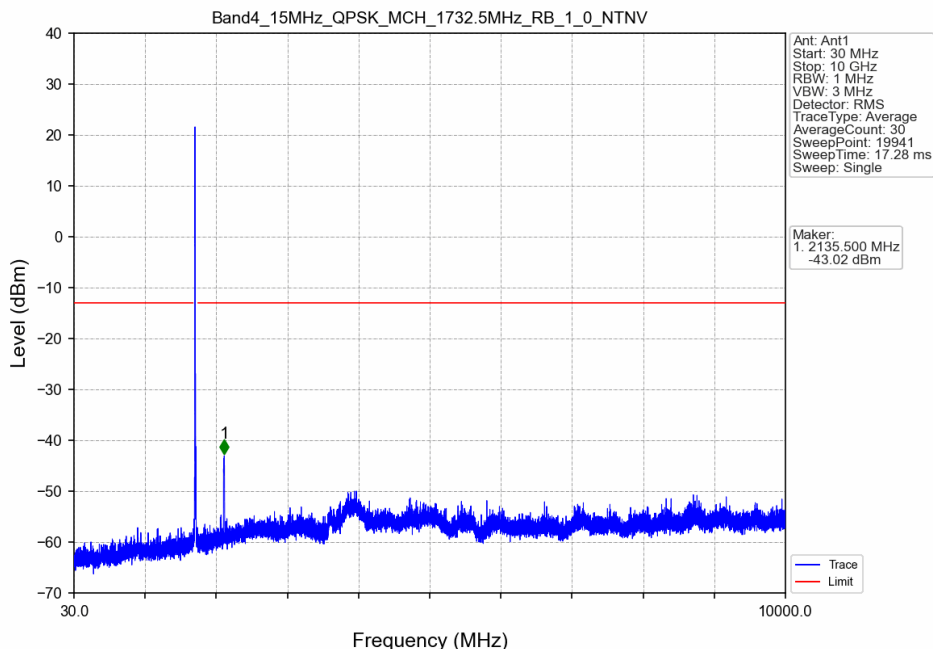


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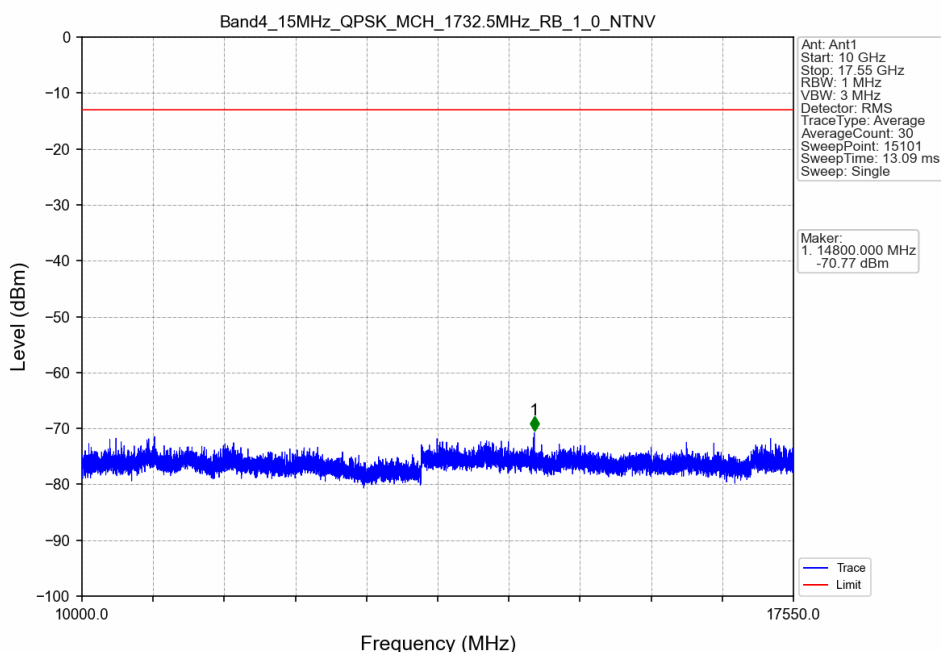
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Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

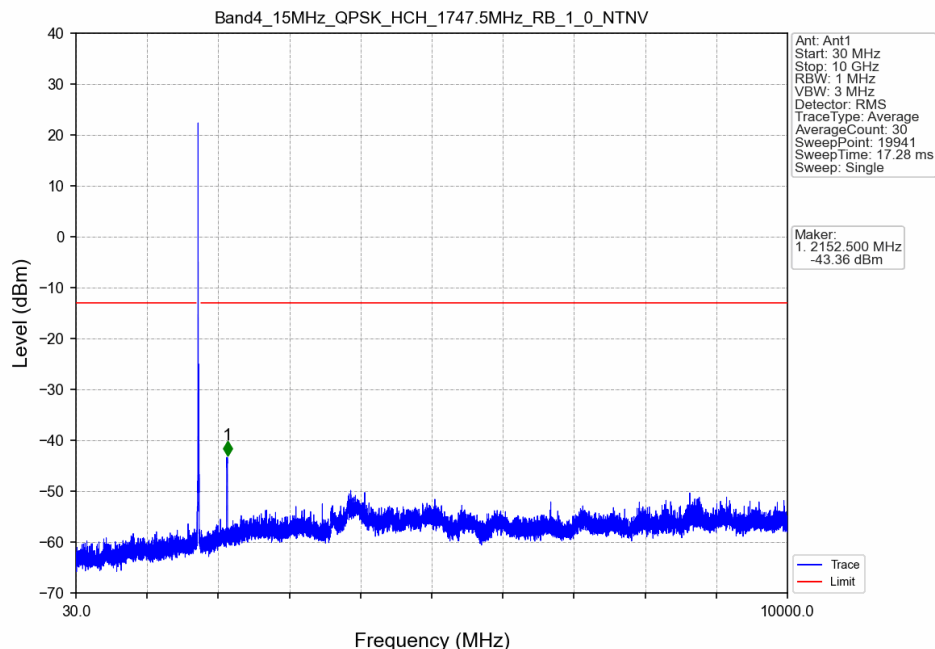


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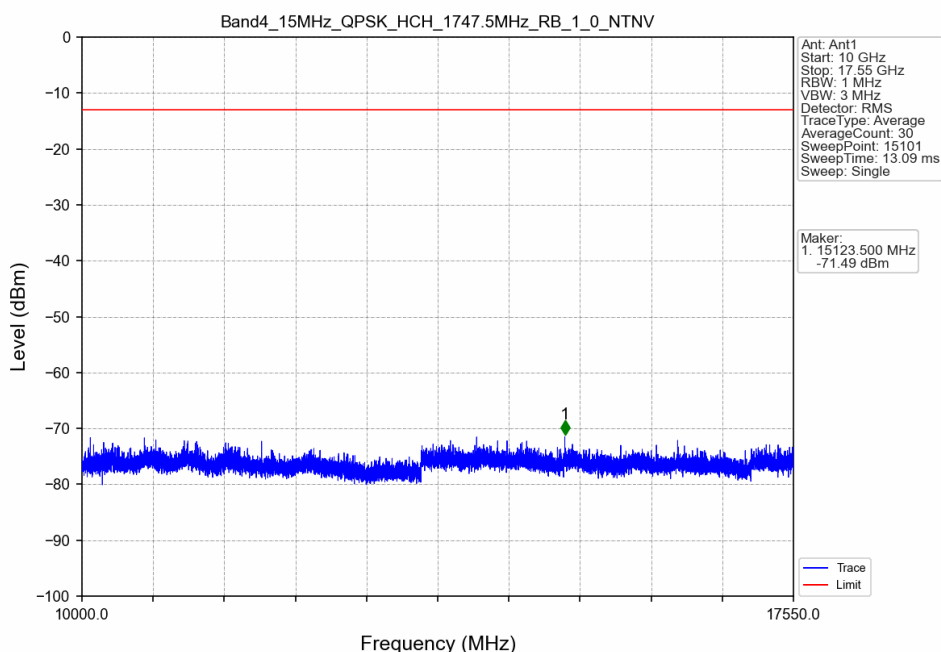
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV



Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV

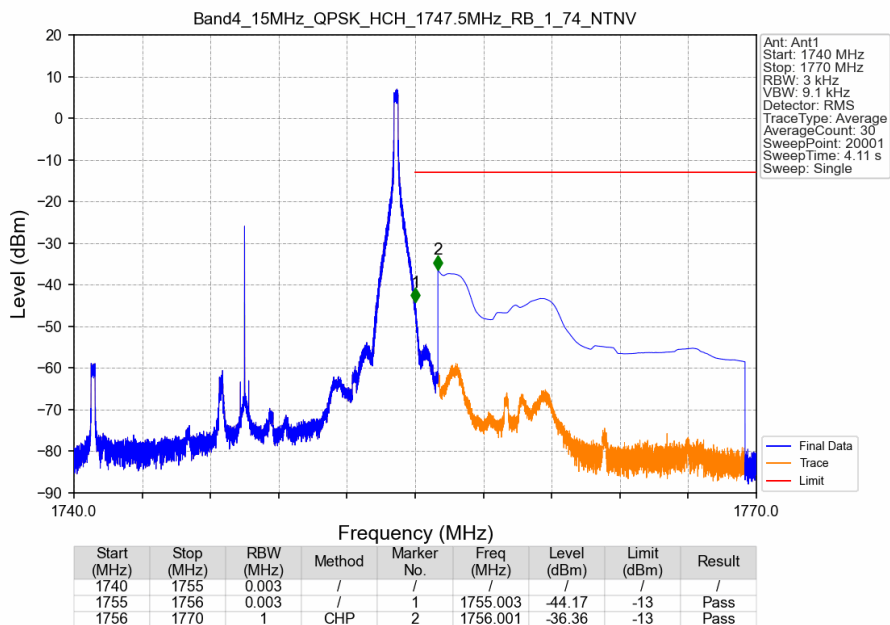


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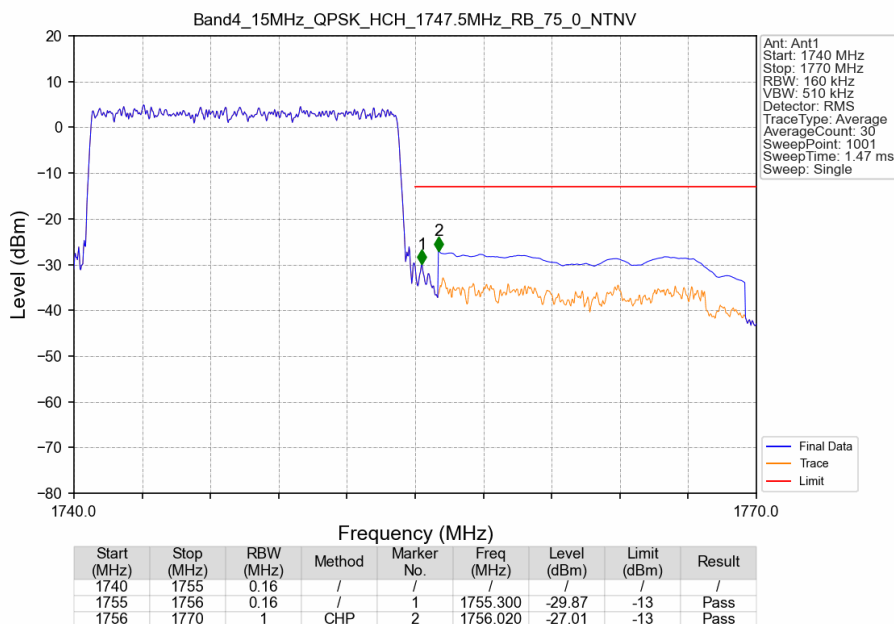
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_74_NTNV



Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



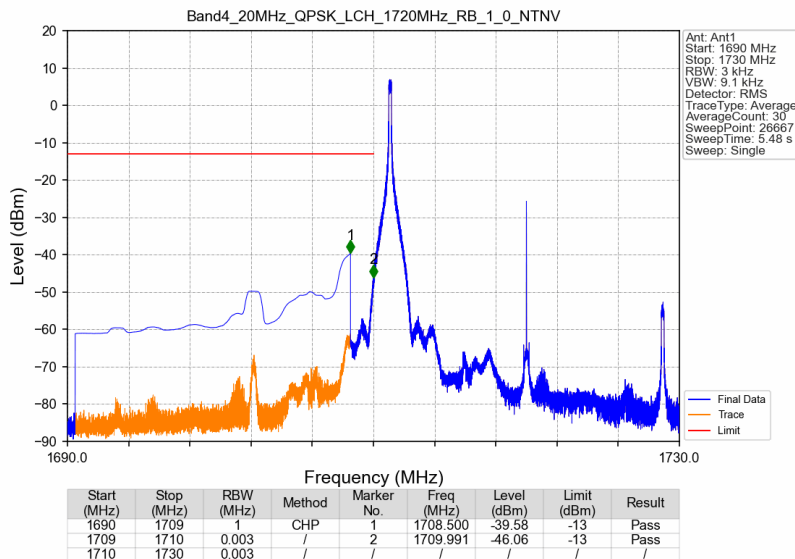
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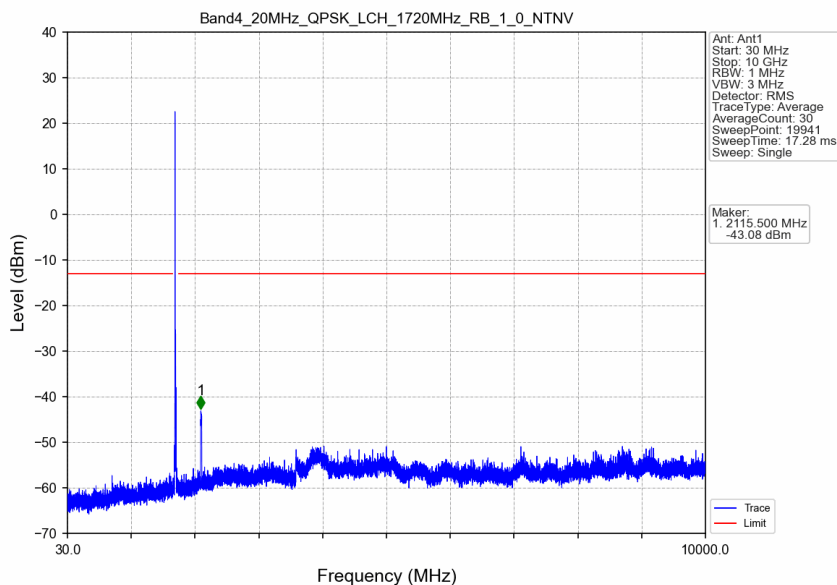
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5.2.6 B4_20MHz

Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV

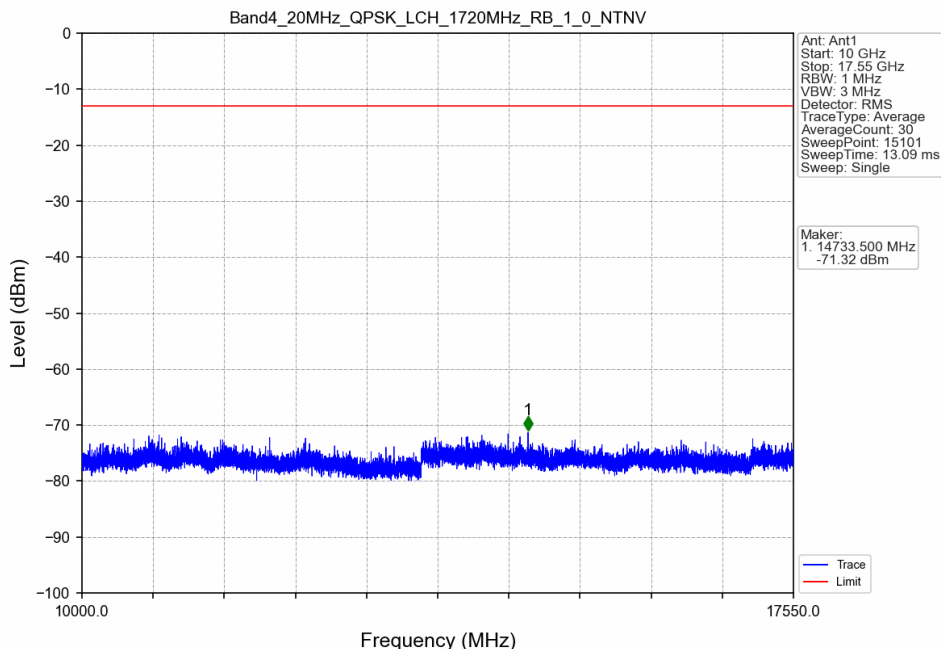


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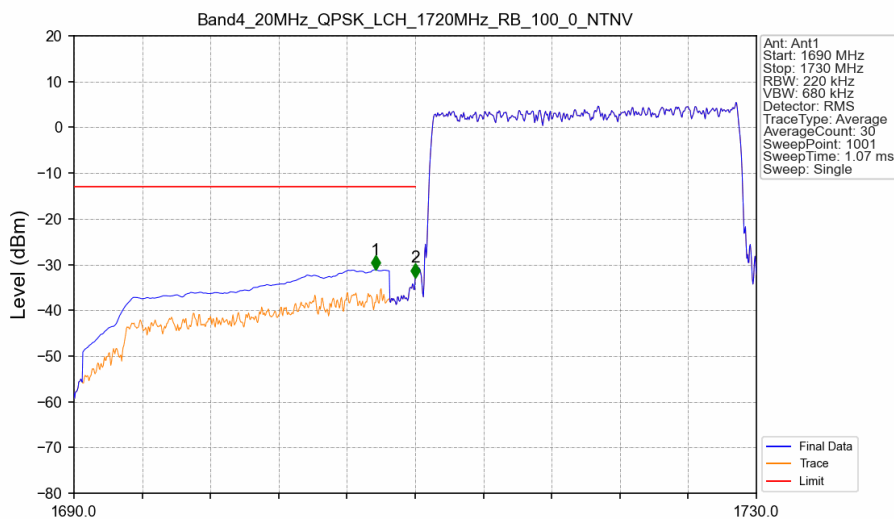
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Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1707.680	-31.11	-13	Pass
1709	1710	0.22	/	2	1710.000	-32.83	-13	Pass
1710	1730	0.22	/	/	/	/	/	/

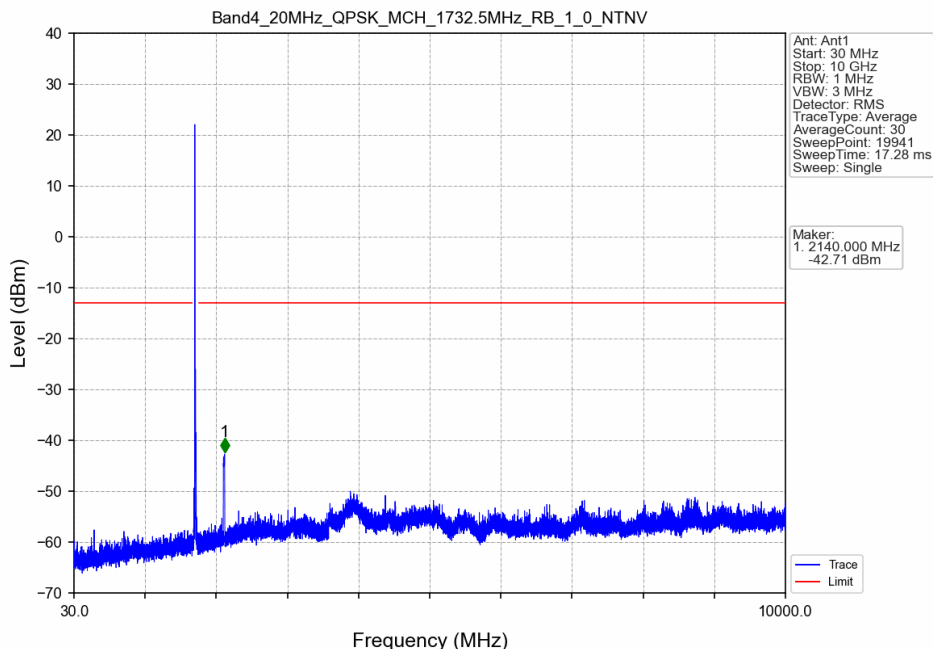


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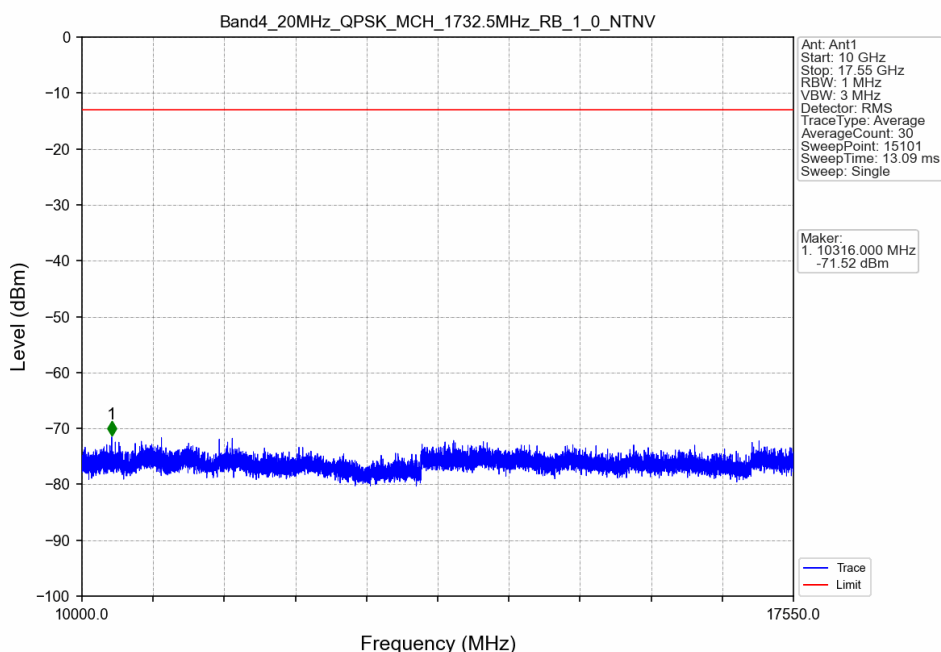
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Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

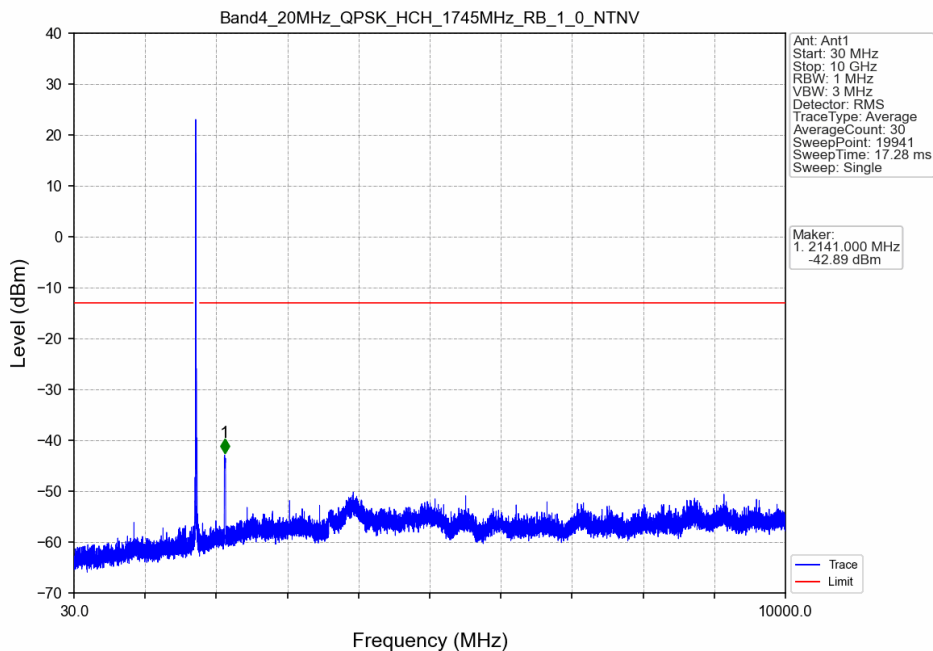


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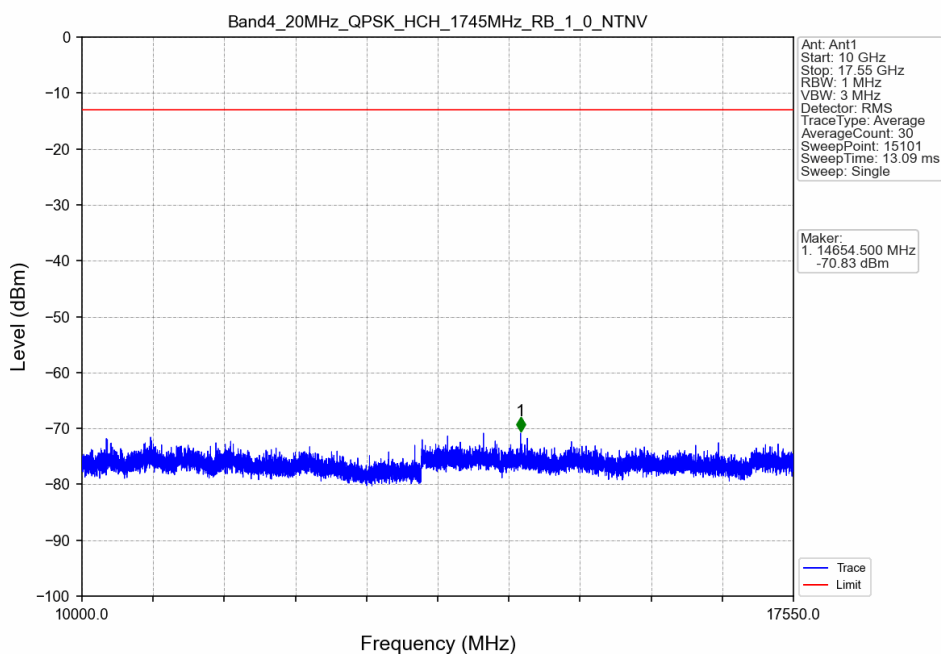
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Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV

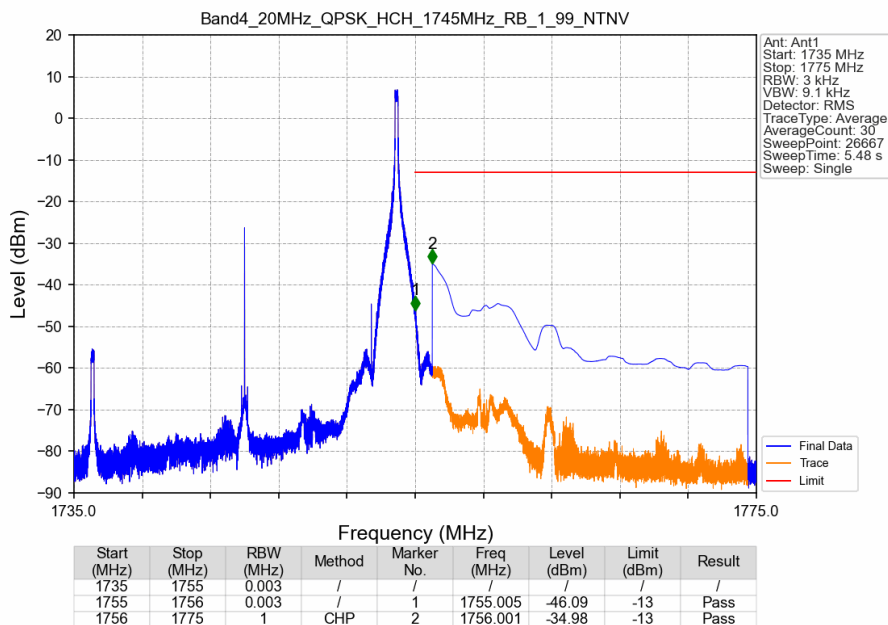


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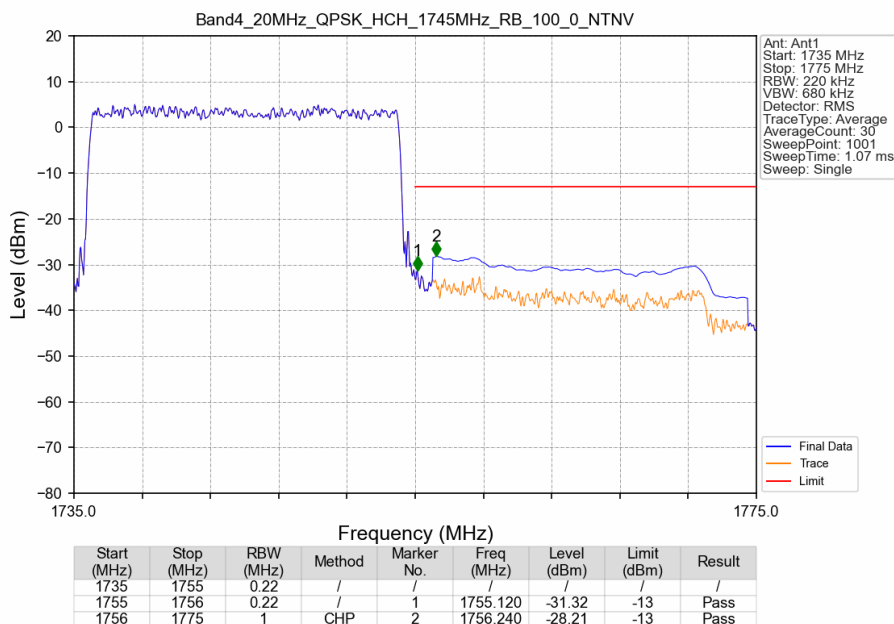
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Band4_20MHz_QPSK_HCH_1745MHz_RB_1_99_NTNV



Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



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6. Field Strength of Spurious Radiation

LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422.0	-61.22	-13	-48.22	-65.96	3.24	7.98	Horizontal	Pass
5133.0	-59.46	-13	-46.46	-65.43	4.25	10.22	Horizontal	Pass
6844.0	-57.37	-13	-44.37	-64.11	4.19	10.93	Horizontal	Pass
3422.0	-60.52	-13	-47.52	-65.26	3.24	7.98	Vertical	Pass
5133.0	-59.13	-13	-46.13	-65.1	4.25	10.22	Vertical	Pass
6844.0	-58.77	-13	-45.77	-65.51	4.19	10.93	Vertical	Pass
LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447.0	-61.67	-13	-48.67	-66.45	3.26	8.04	Horizontal	Pass
5170.5	-59.04	-13	-46.04	-65.04	4.25	10.25	Horizontal	Pass
6894.0	-59.08	-13	-46.08	-65.88	4.19	10.99	Horizontal	Pass
3447.0	-61.63	-13	-48.63	-66.41	3.26	8.04	Vertical	Pass
5170.5	-58.77	-13	-45.77	-64.77	4.25	10.25	Vertical	Pass
6894.0	-58.83	-13	-45.83	-65.63	4.19	10.99	Vertical	Pass
LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472.0	-61.45	-13	-48.45	-66.28	3.27	8.1	Horizontal	Pass
5208.0	-59.33	-13	-46.33	-65.35	4.25	10.27	Horizontal	Pass
6944.0	-57.87	-13	-44.87	-64.74	4.19	11.06	Horizontal	Pass
3472.0	-61.78	-13	-48.78	-66.61	3.27	8.1	Vertical	Pass
5208.0	-58.95	-13	-45.95	-64.97	4.25	10.27	Vertical	Pass
6944.0	-57.93	-13	-44.93	-64.8	4.19	11.06	Vertical	Pass

---End of Attachment---



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