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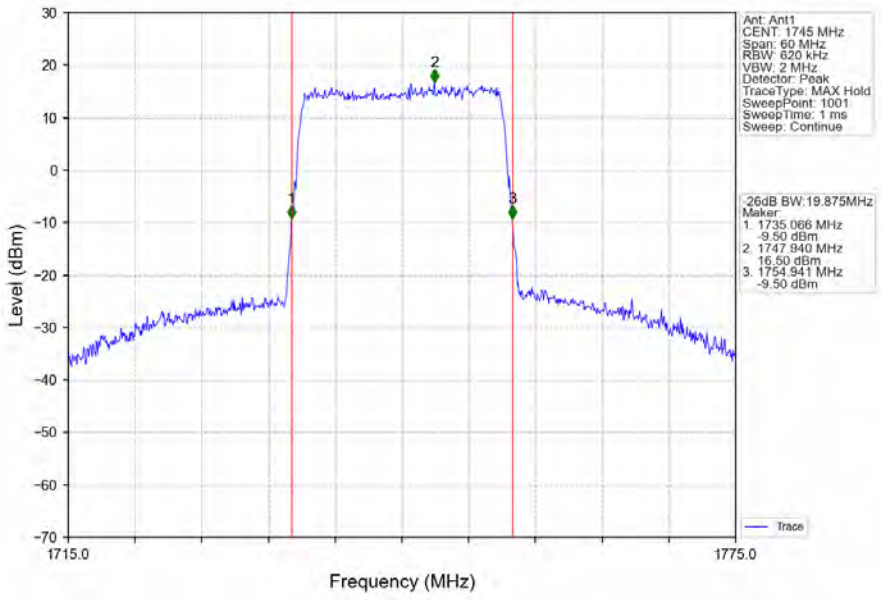
Band4_20MHz_64QAM_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_256QAM_LCH_1720MHz_RB_100_0_NTNV

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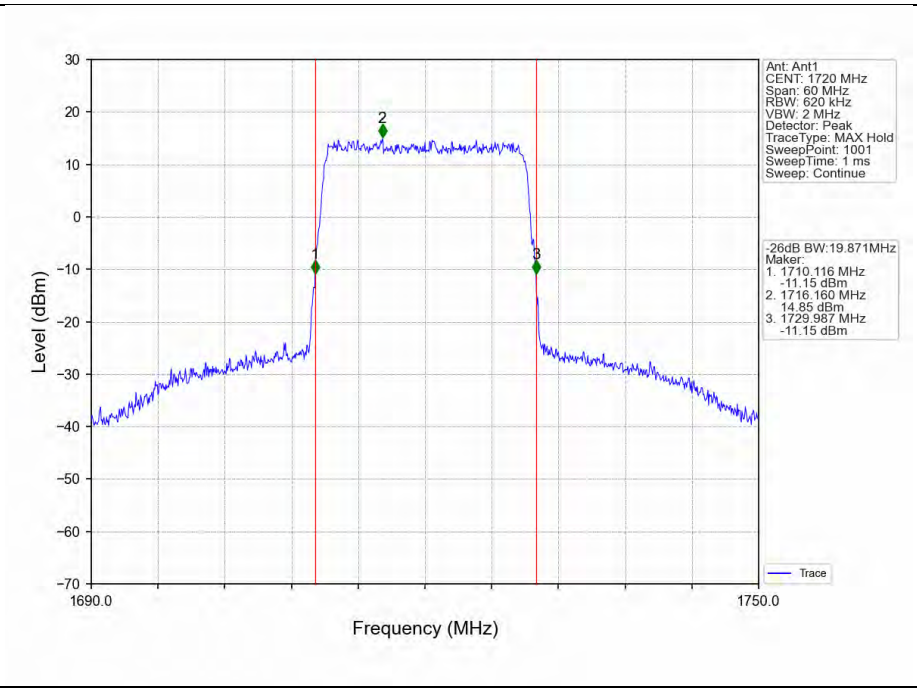

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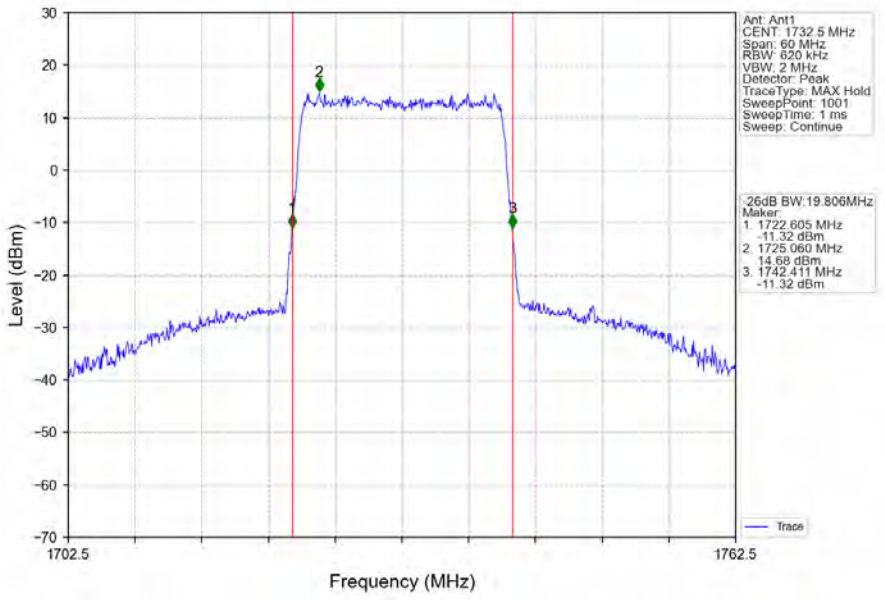
Band4_20MHz_256QAM_MCH_1732.5MHz_RB_100_0_NTNV



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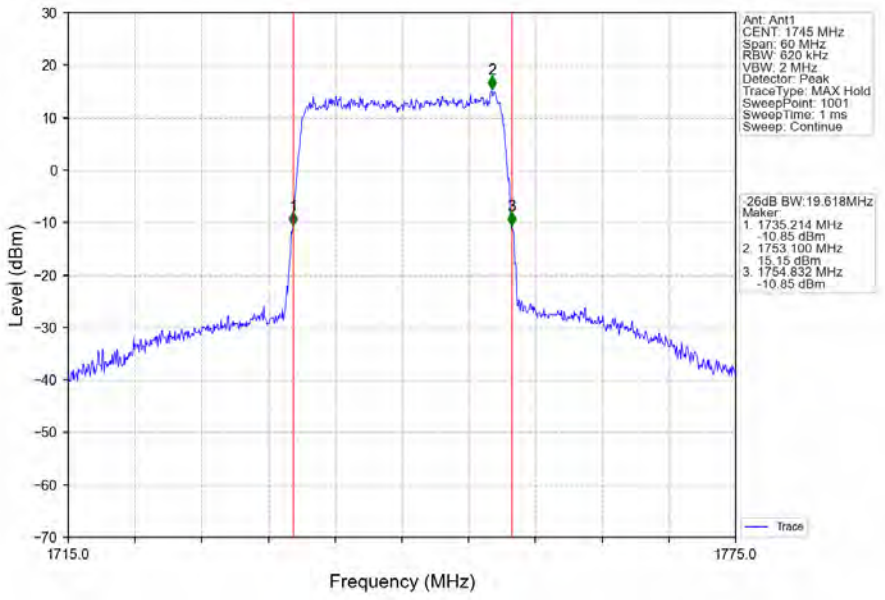

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4. Peak-Average Ratio

4.1 B4_1.4MHz

4.1.1 Test Result

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	5.22	<=13	Pass
	1732.5	6	0	5.29	<=13	Pass
	1754.3	6	0	5.10	<=13	Pass
16QAM	1710.7	6	0	6.11	<=13	Pass
	1732.5	6	0	6.08	<=13	Pass
	1754.3	6	0	5.82	<=13	Pass
64QAM	1710.7	6	0	6.50	<=13	Pass
	1732.5	6	0	6.54	<=13	Pass
	1754.3	6	0	6.46	<=13	Pass
256QAM	1710.7	6	0	6.74	<=13	Pass
	1732.5	6	0	6.76	<=13	Pass
	1754.3	6	0	6.69	<=13	Pass

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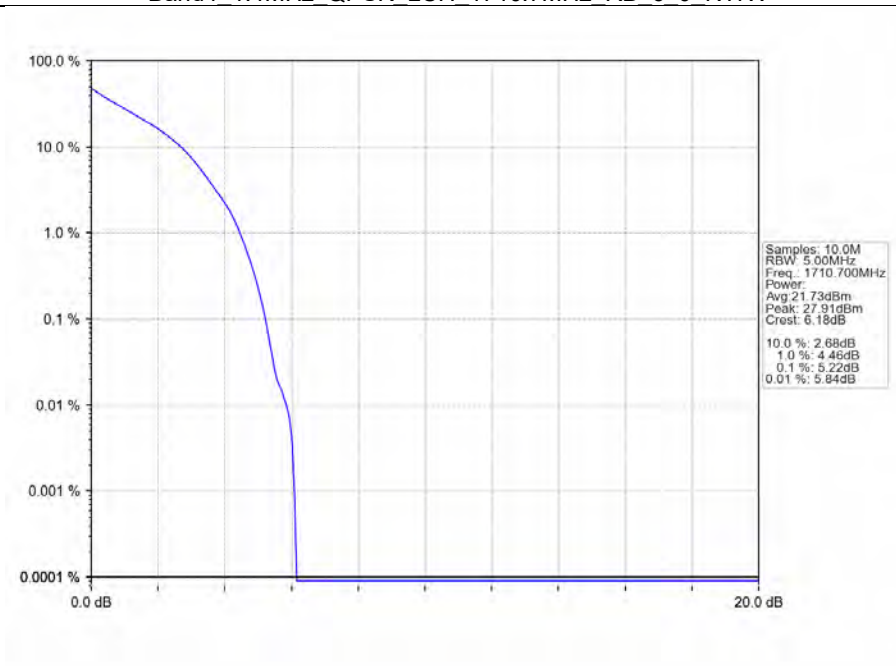
4.1.2 Test Graph

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

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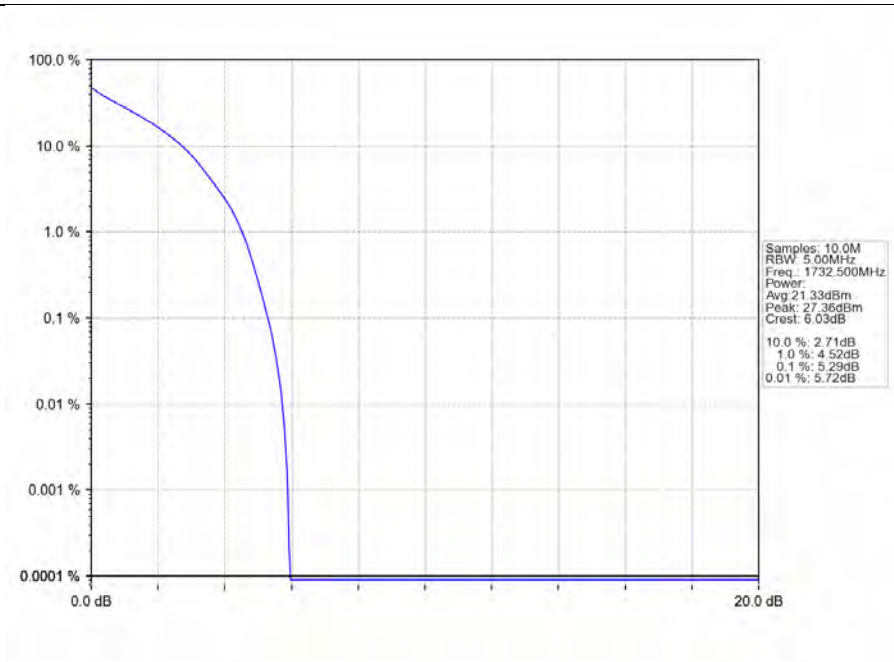

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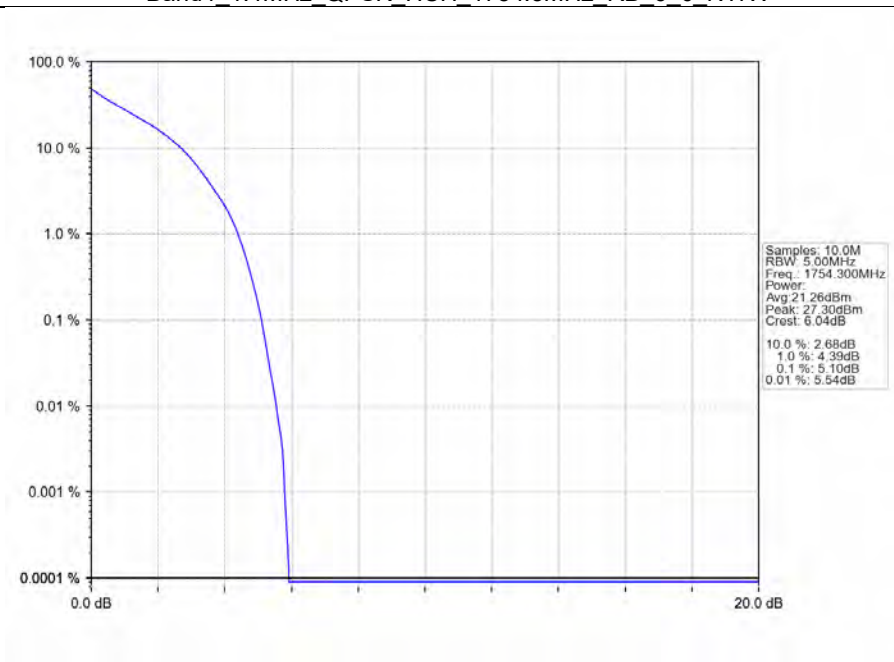

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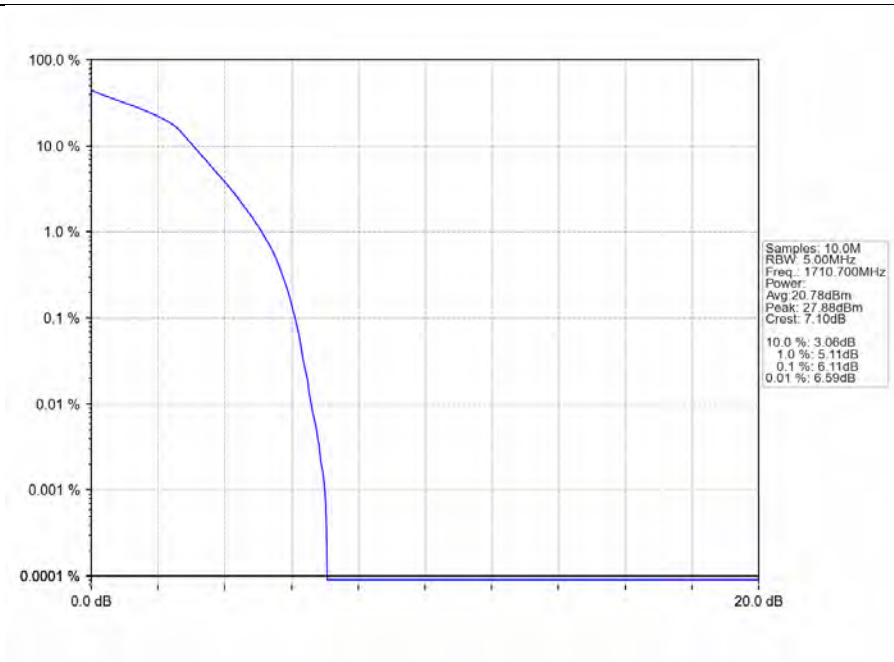

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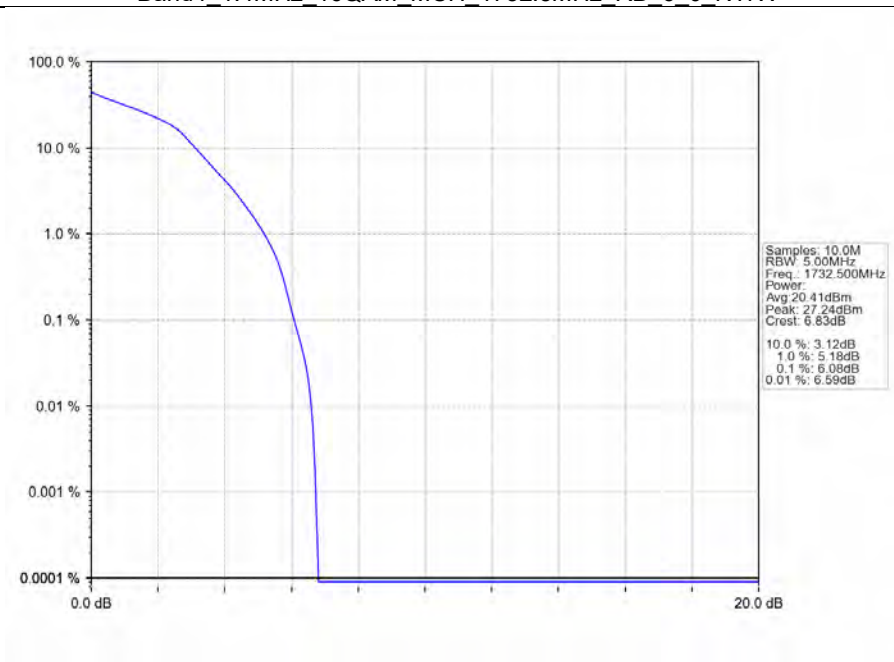

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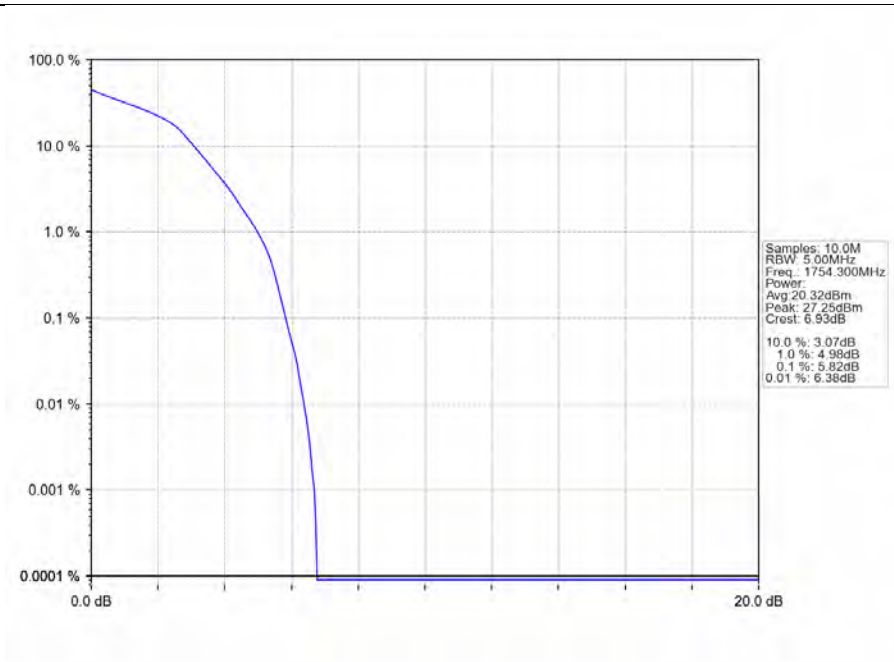

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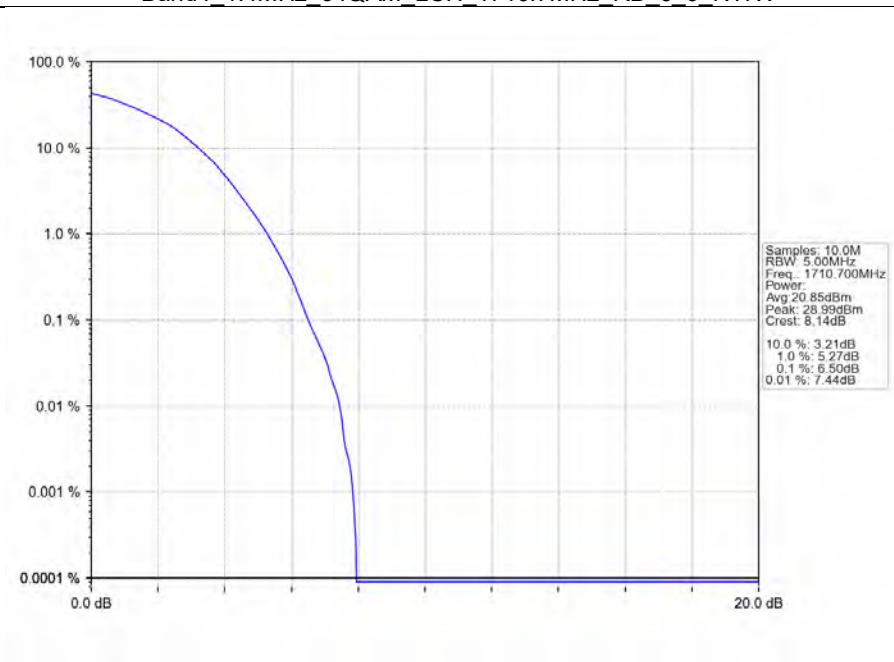

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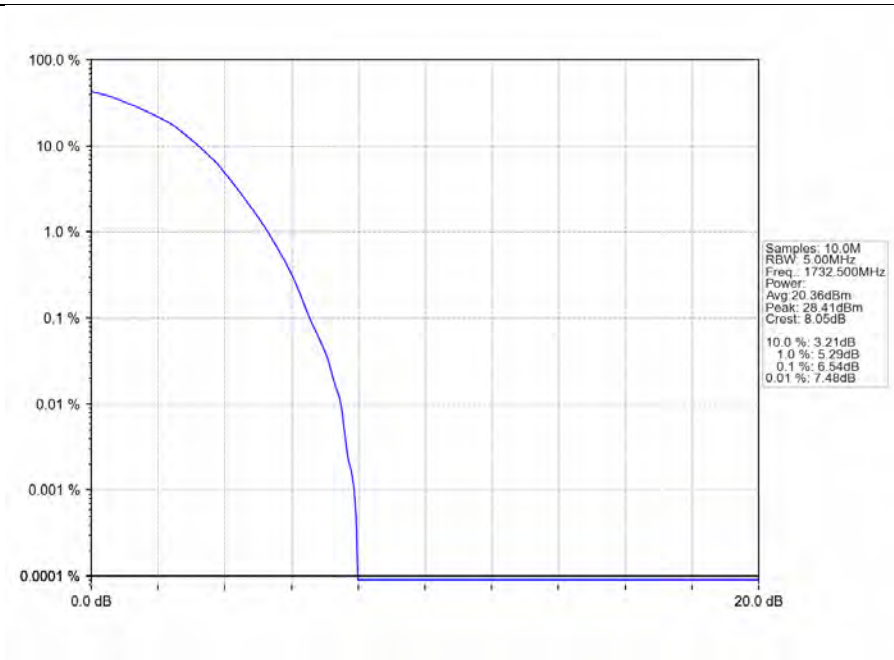

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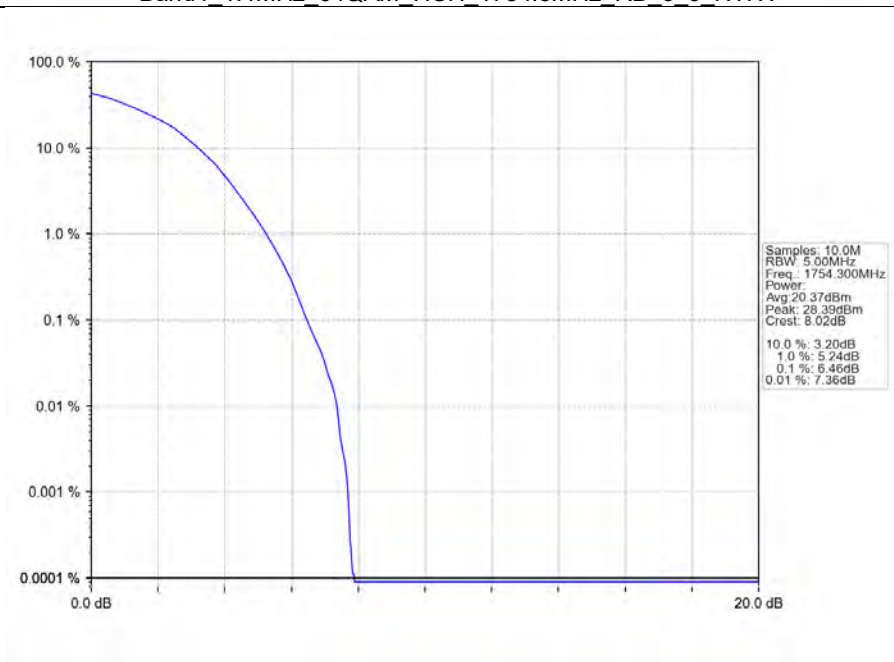

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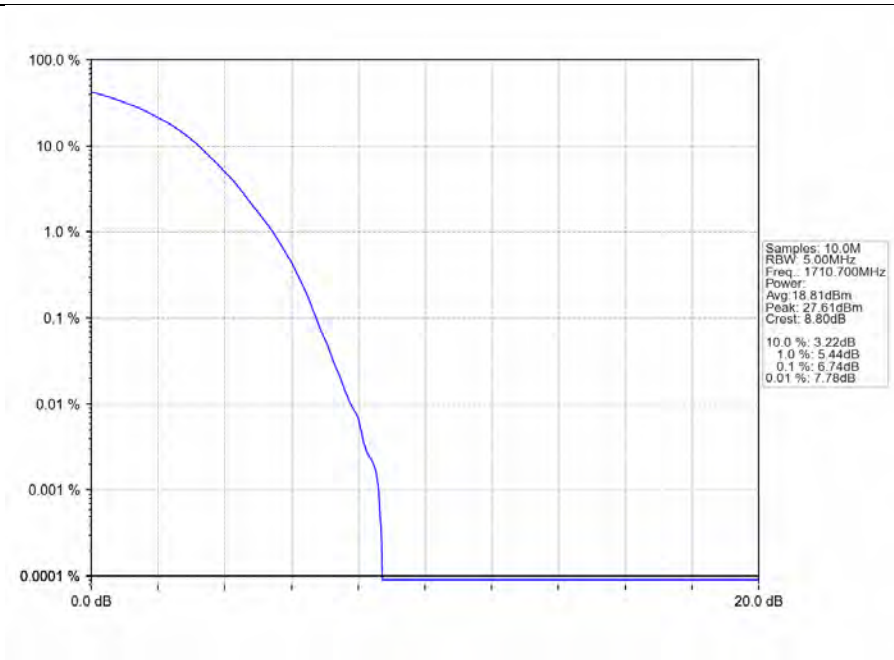

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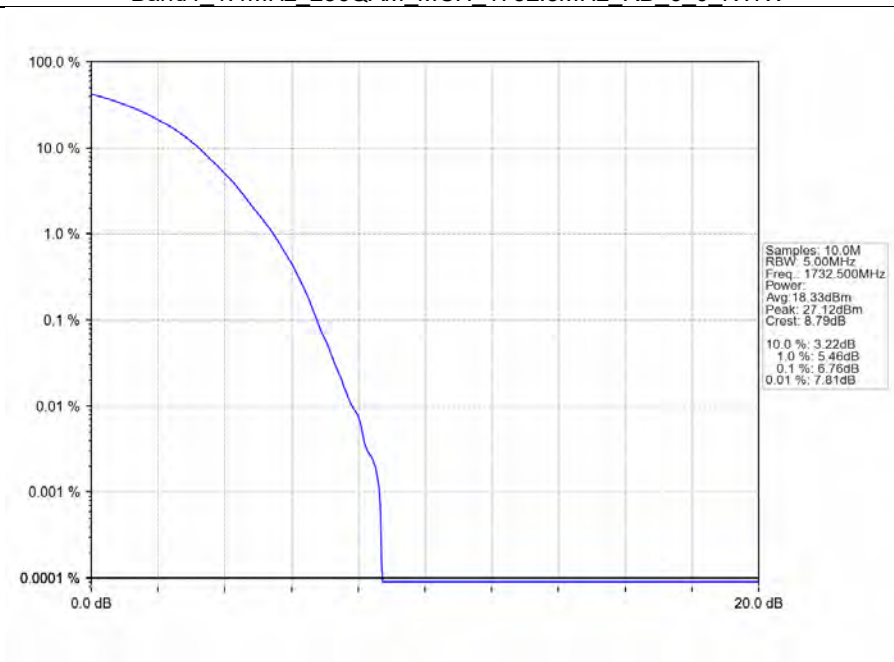

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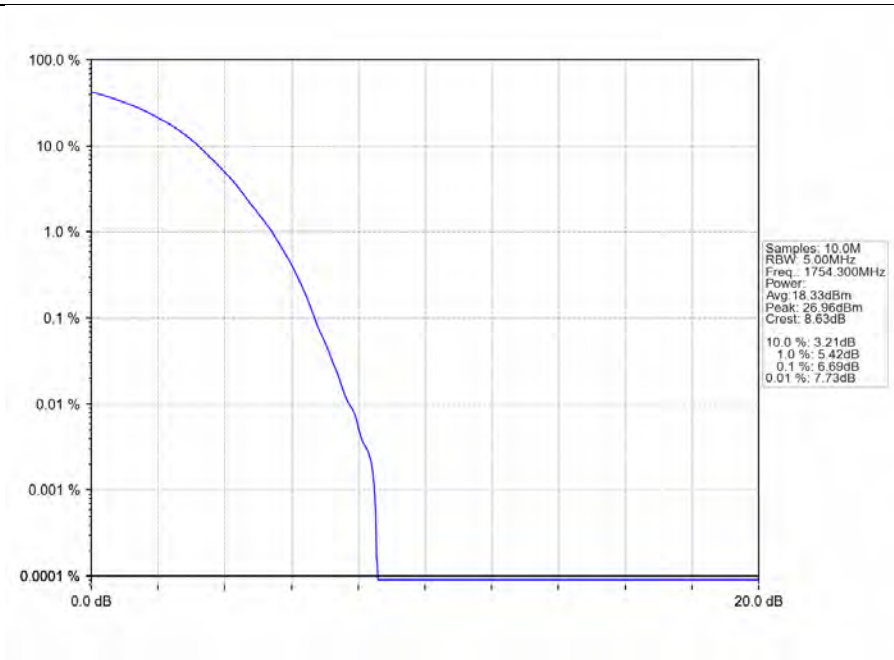

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4.2 B4_3MHz

4.2.1 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	5.16	<=13	Pass
	1732.5	15	0	5.20	<=13	Pass
	1753.5	15	0	4.99	<=13	Pass
16QAM	1711.5	15	0	6.02	<=13	Pass
	1732.5	15	0	6.08	<=13	Pass
	1753.5	15	0	5.83	<=13	Pass
64QAM	1711.5	15	0	6.74	<=13	Pass
	1732.5	15	0	6.86	<=13	Pass
	1753.5	15	0	6.66	<=13	Pass
256QAM	1711.5	15	0	6.89	<=13	Pass
	1732.5	15	0	6.98	<=13	Pass
	1753.5	15	0	6.79	<=13	Pass

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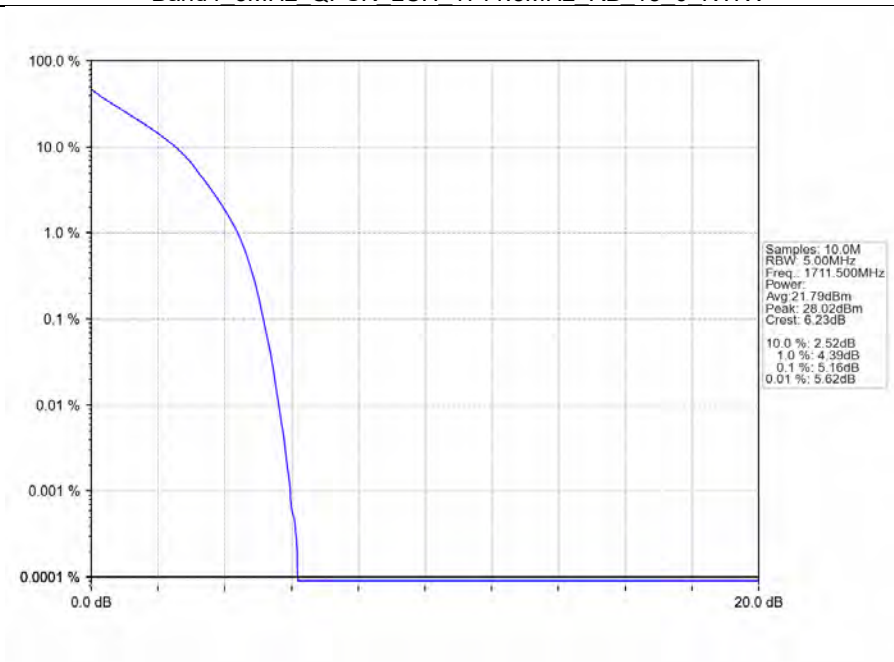
4.2.2 Test Graph

Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



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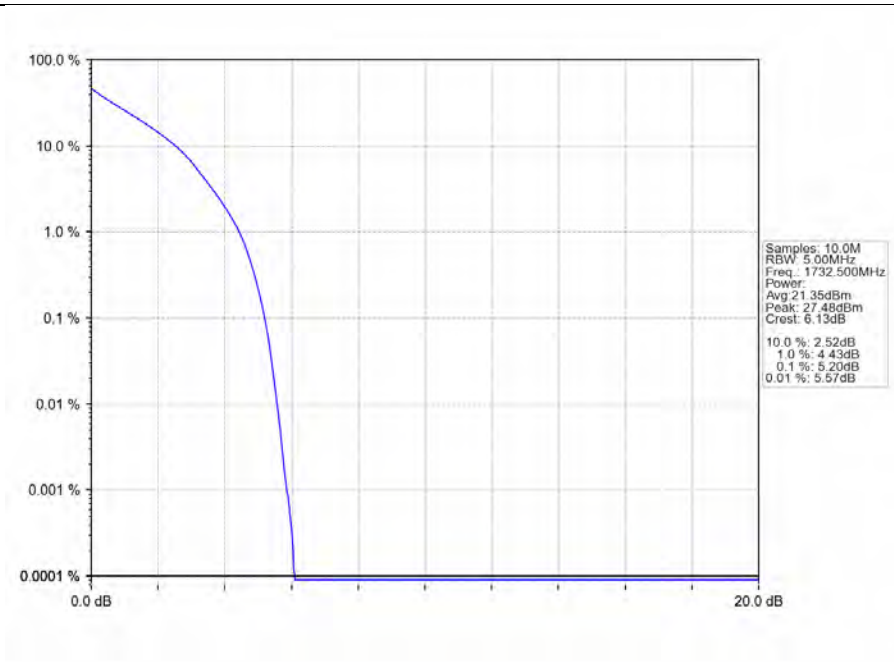

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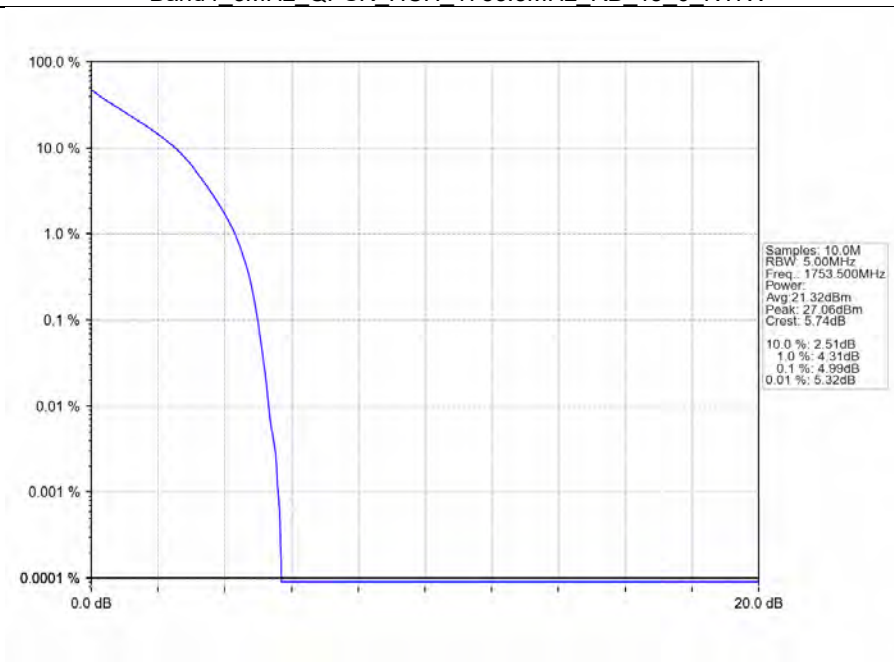

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

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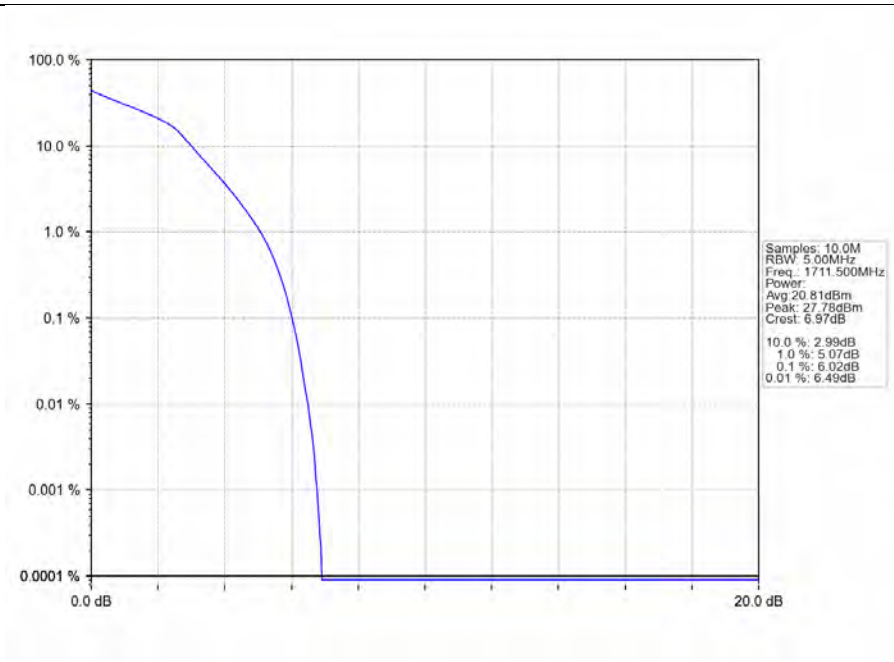

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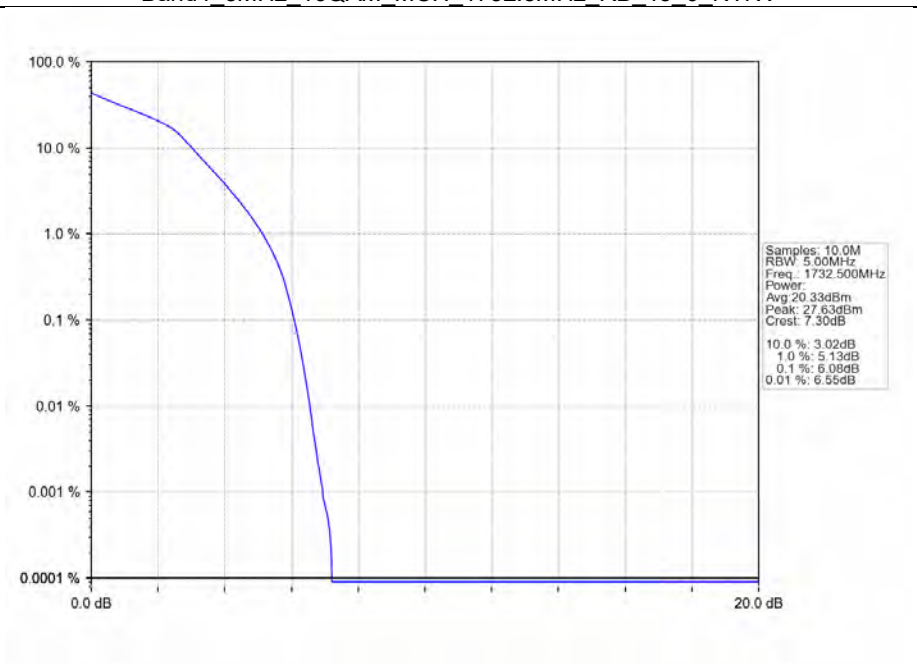

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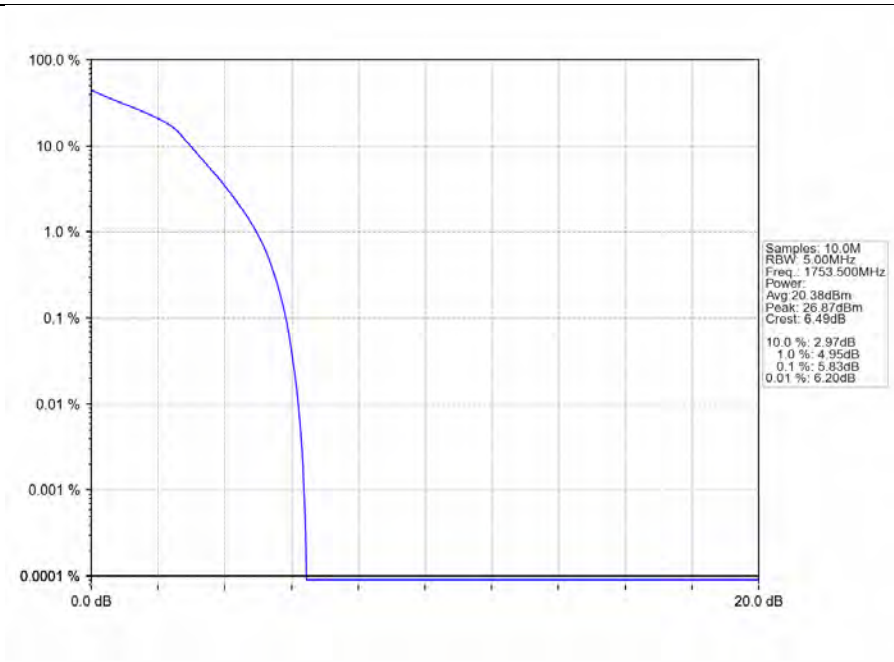

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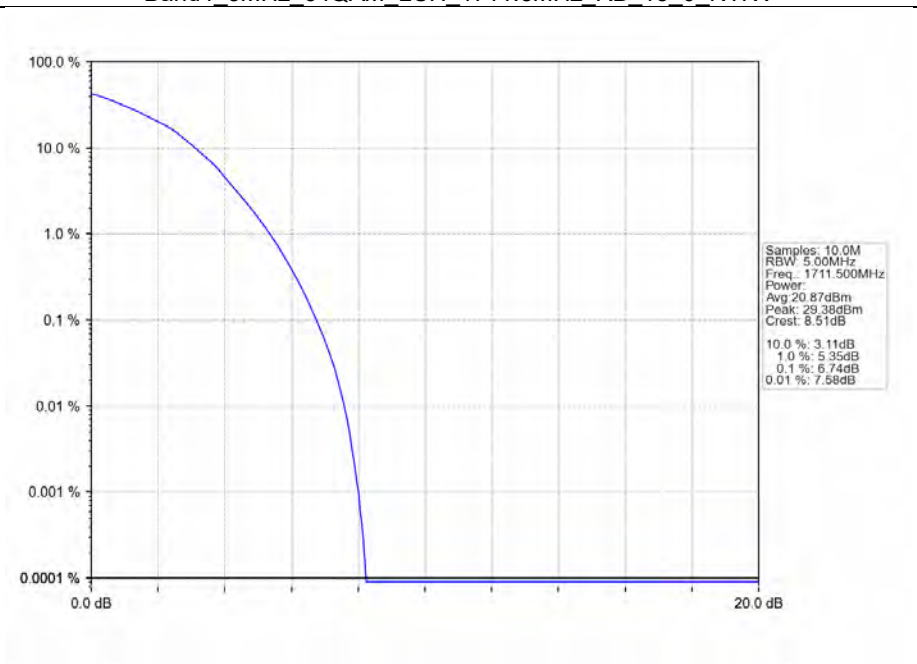

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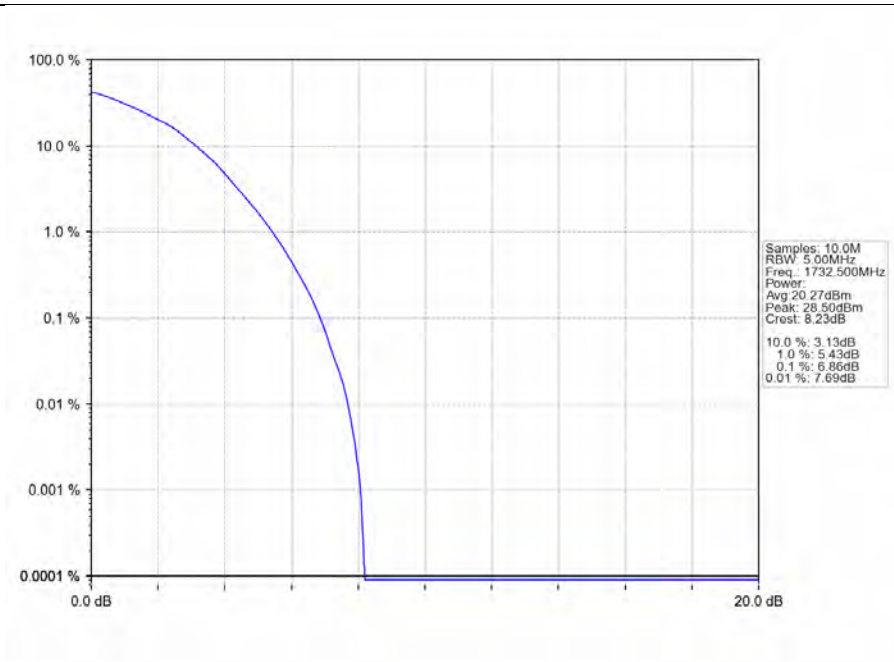

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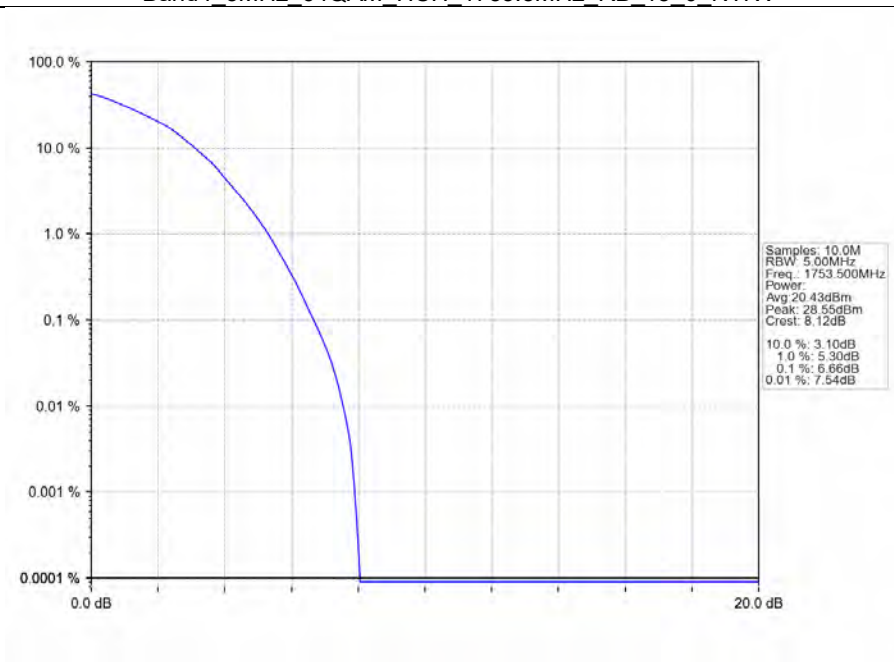

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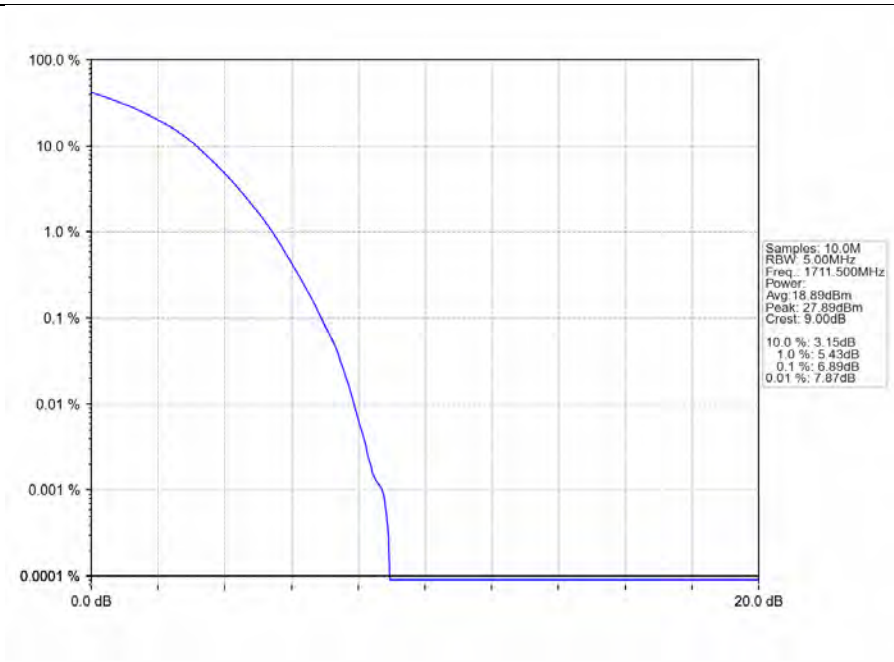

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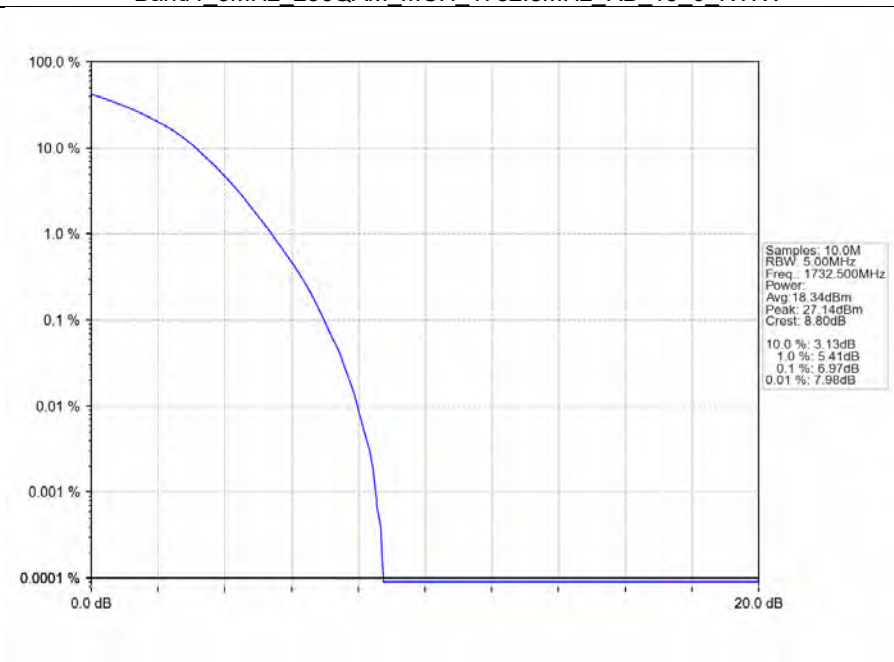
Band4_3MHz_256QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_256QAM_HCH_1753.5MHz_RB_15_0_NTNV

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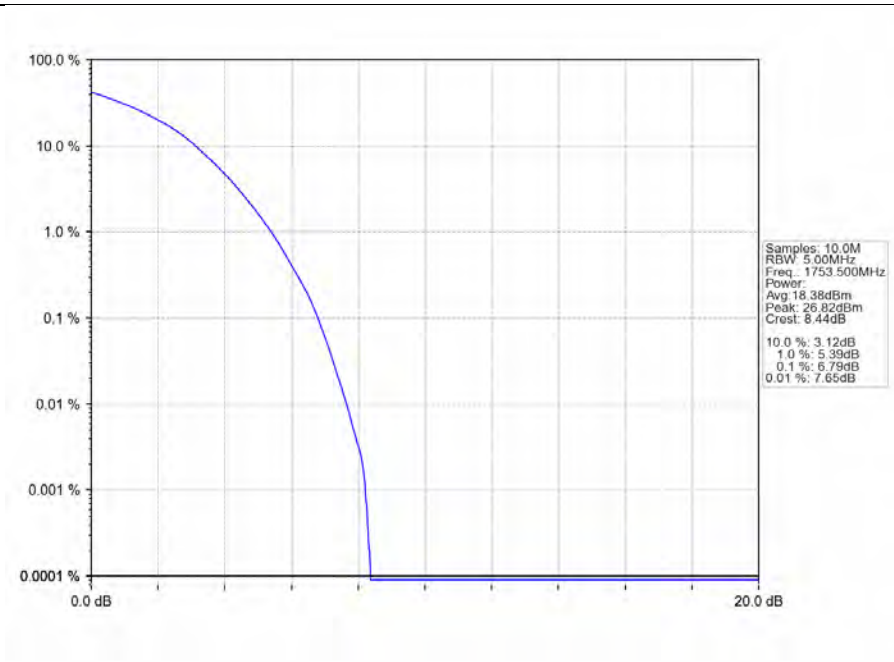

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4.3 B4_5MHz

4.3.1 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	5.30	<=13	Pass
	1752.5	25	0	5.13	<=13	Pass
16QAM	1712.5	25	0	6.05	<=13	Pass
	1732.5	25	0	6.08	<=13	Pass
	1752.5	25	0	5.88	<=13	Pass
64QAM	1712.5	25	0	6.70	<=13	Pass
	1732.5	25	0	6.75	<=13	Pass
	1752.5	25	0	6.66	<=13	Pass
256QAM	1712.5	25	0	6.90	<=13	Pass
	1732.5	25	0	6.94	<=13	Pass
	1752.5	25	0	6.86	<=13	Pass

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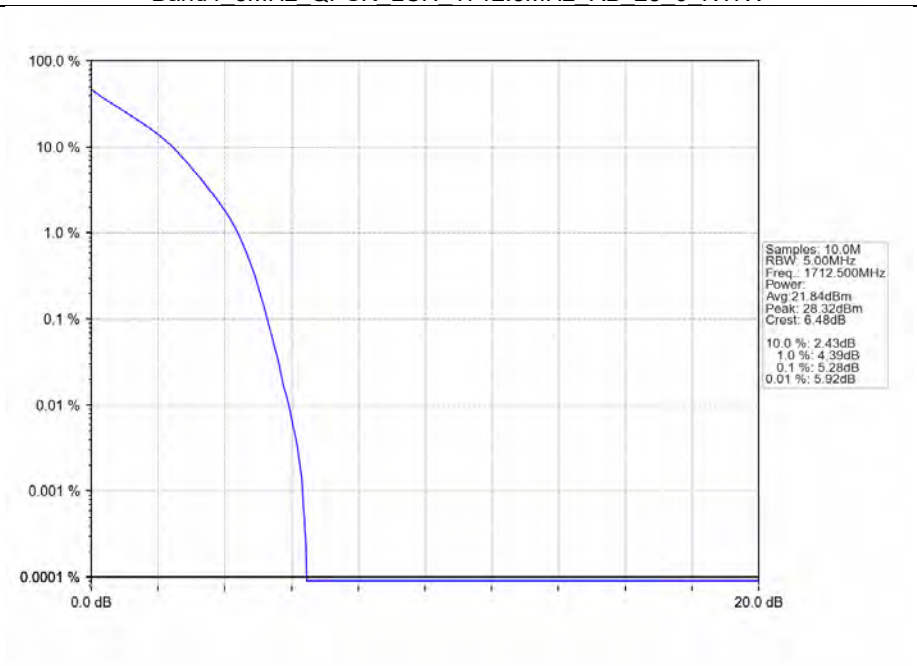
4.3.2 Test Graph

Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

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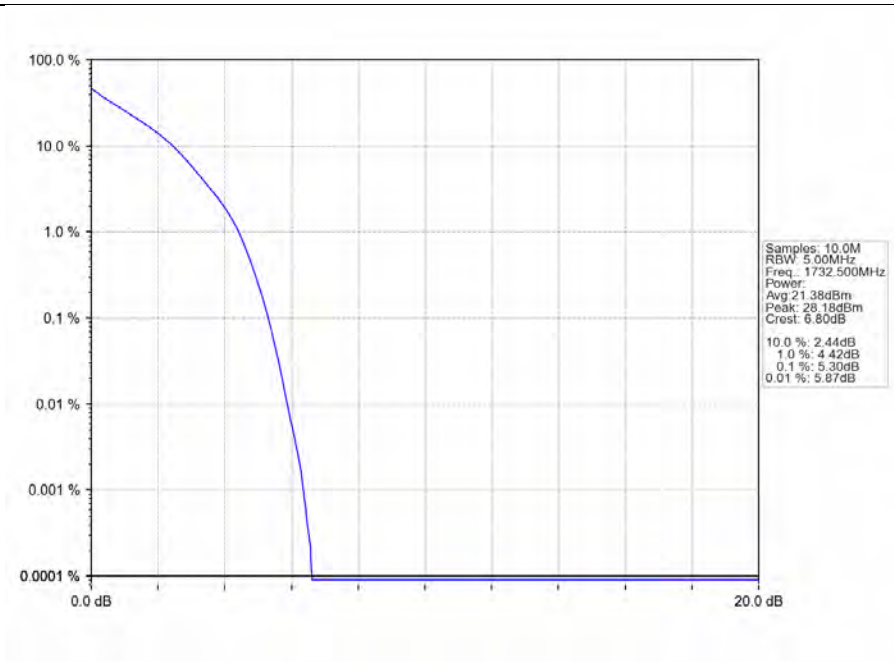

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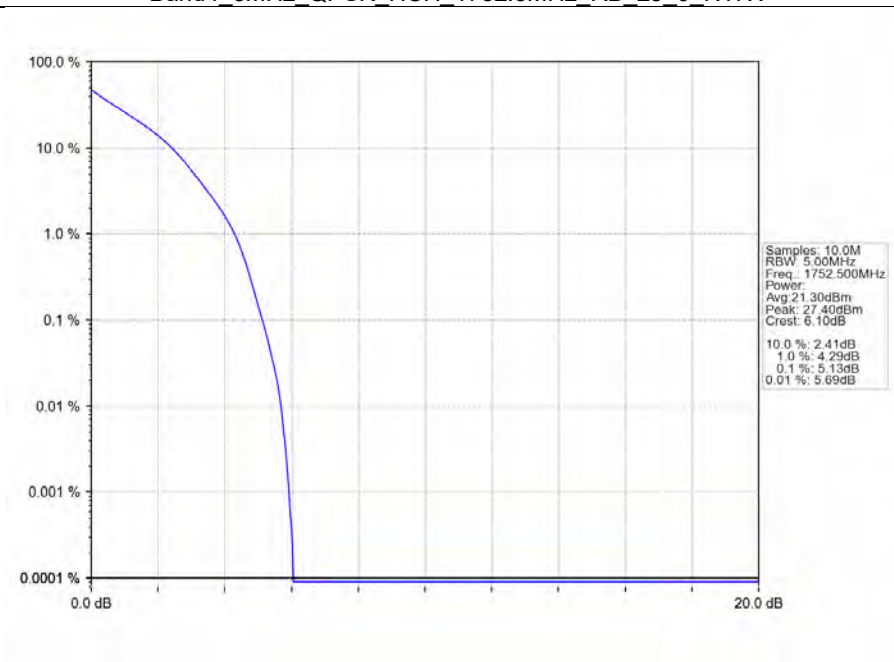

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

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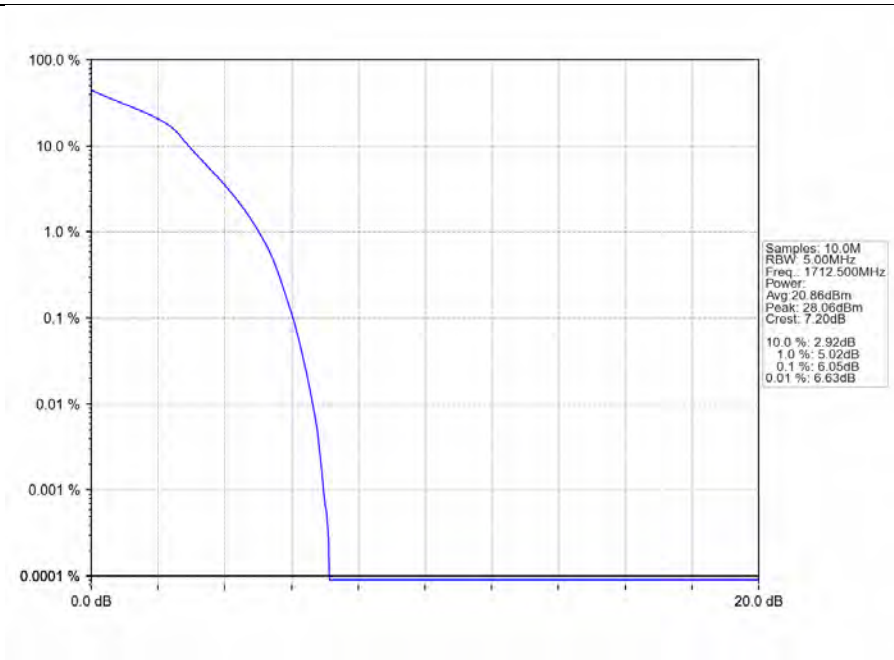

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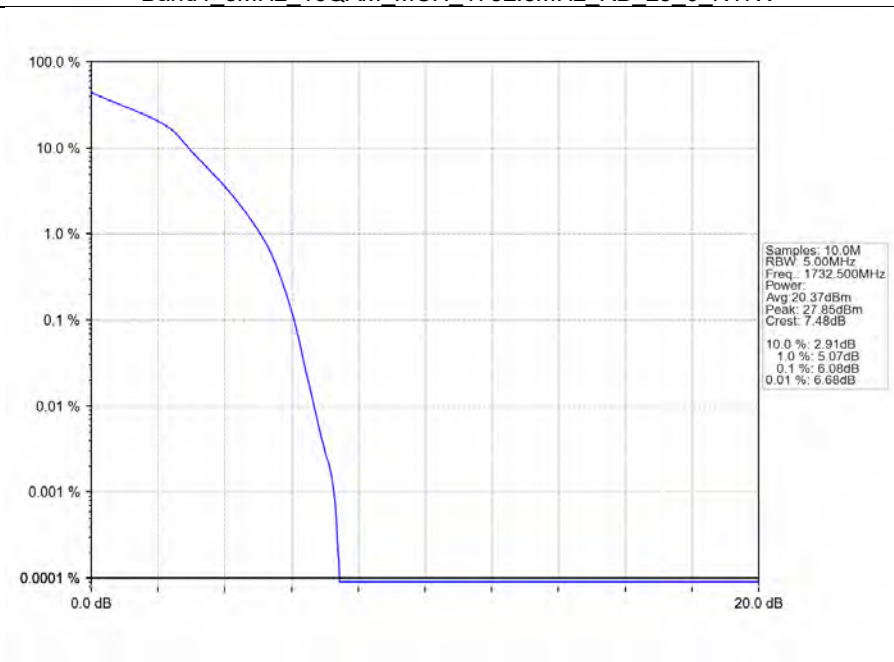

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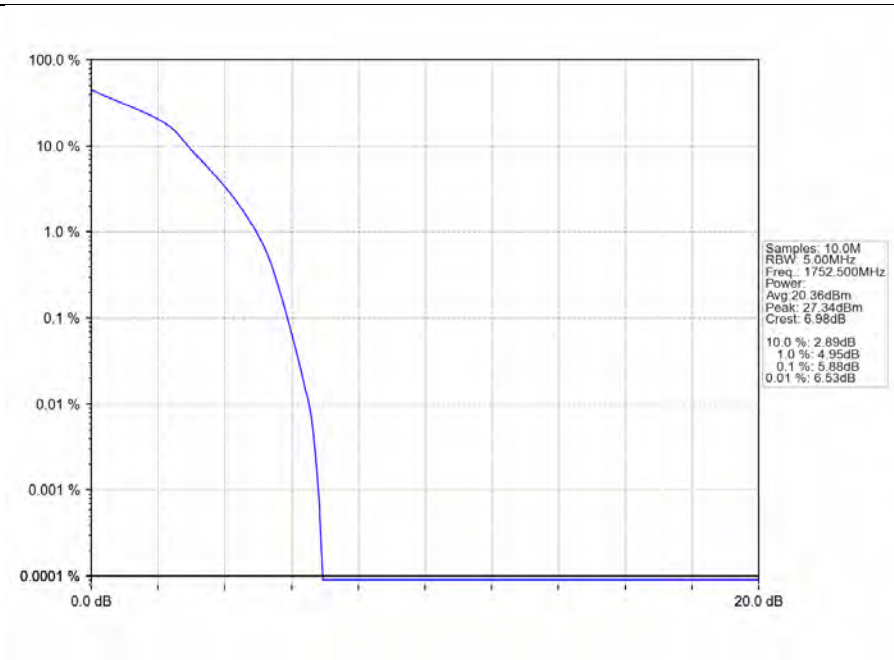

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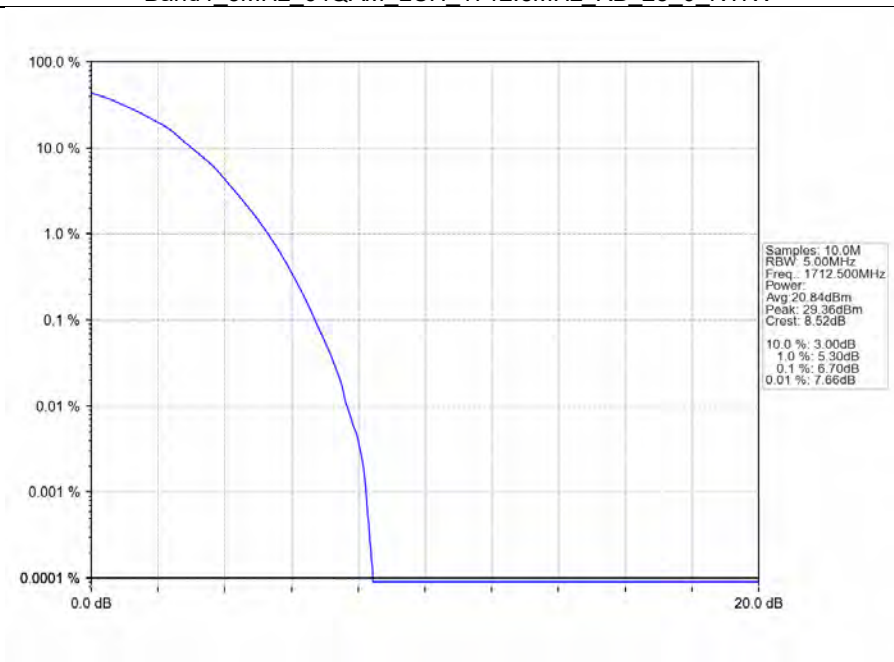

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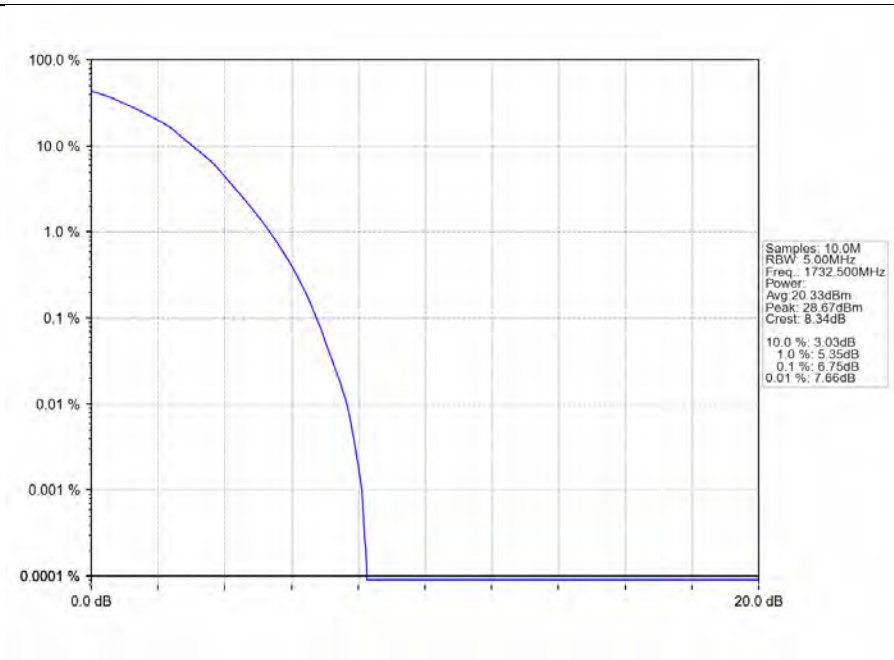

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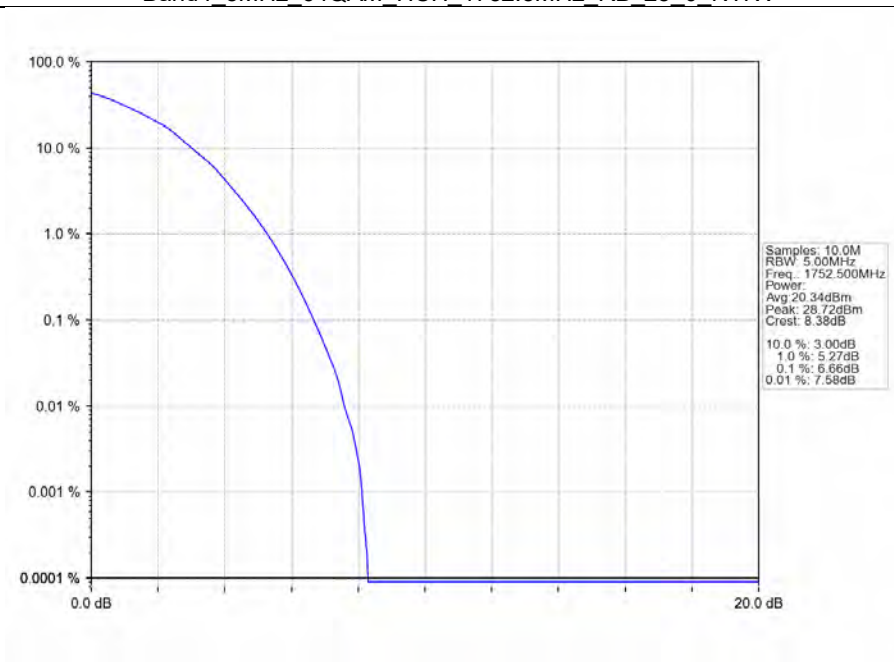

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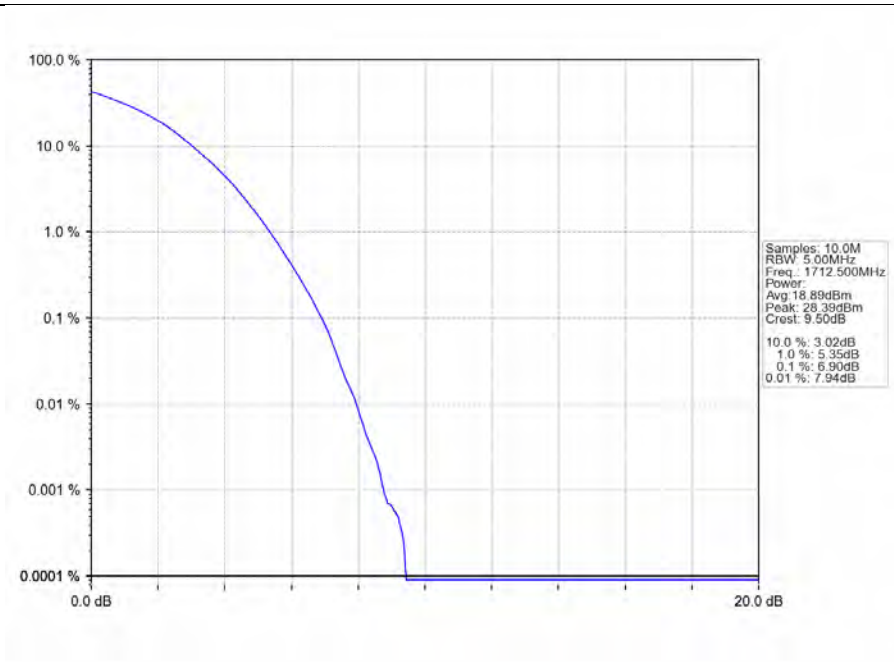

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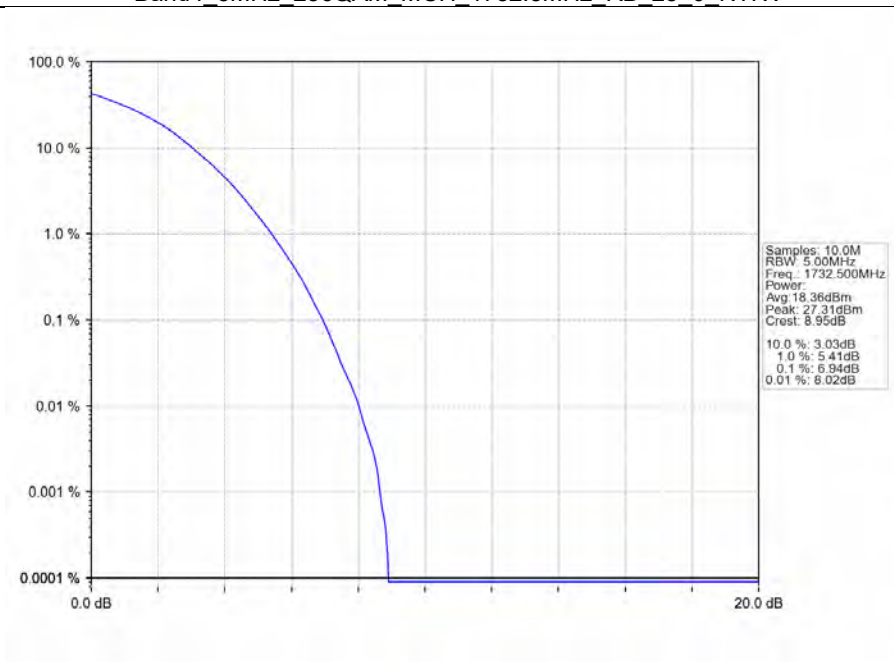
Band4_5MHz_256QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_256QAM_HCH_1752.5MHz_RB_25_0_NTNV

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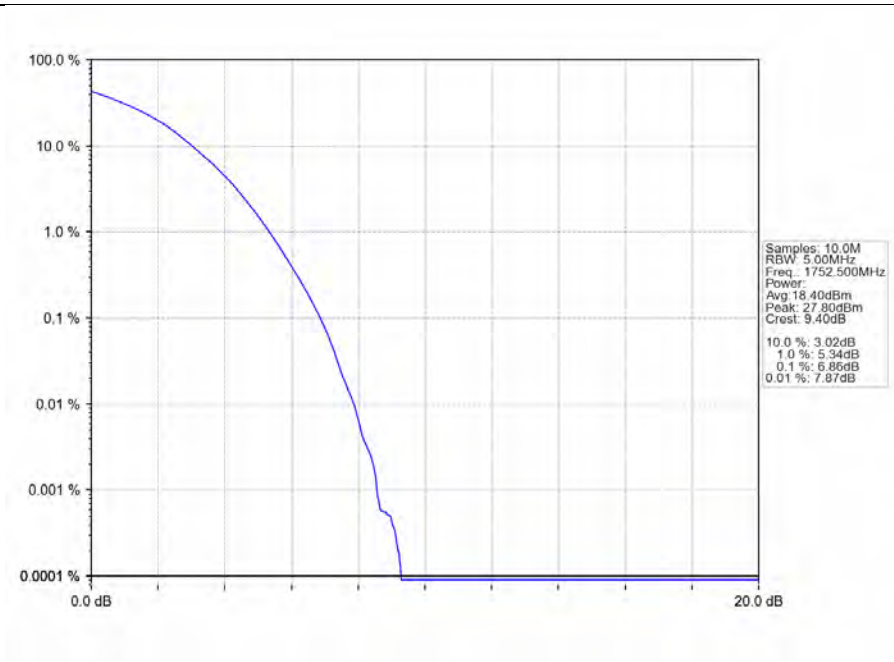

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4.4 B4_10MHz

4.4.1 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	5.26	<=13	Pass
	1732.5	50	0	5.35	<=13	Pass
	1750	50	0	5.25	<=13	Pass
16QAM	1715	50	0	6.07	<=13	Pass
	1732.5	50	0	6.08	<=13	Pass
	1750	50	0	6.03	<=13	Pass
64QAM	1715	50	0	6.74	<=13	Pass
	1732.5	50	0	6.77	<=13	Pass
	1750	50	0	6.71	<=13	Pass
256QAM	1715	50	0	6.77	<=13	Pass
	1732.5	50	0	6.94	<=13	Pass
	1750	50	0	6.75	<=13	Pass

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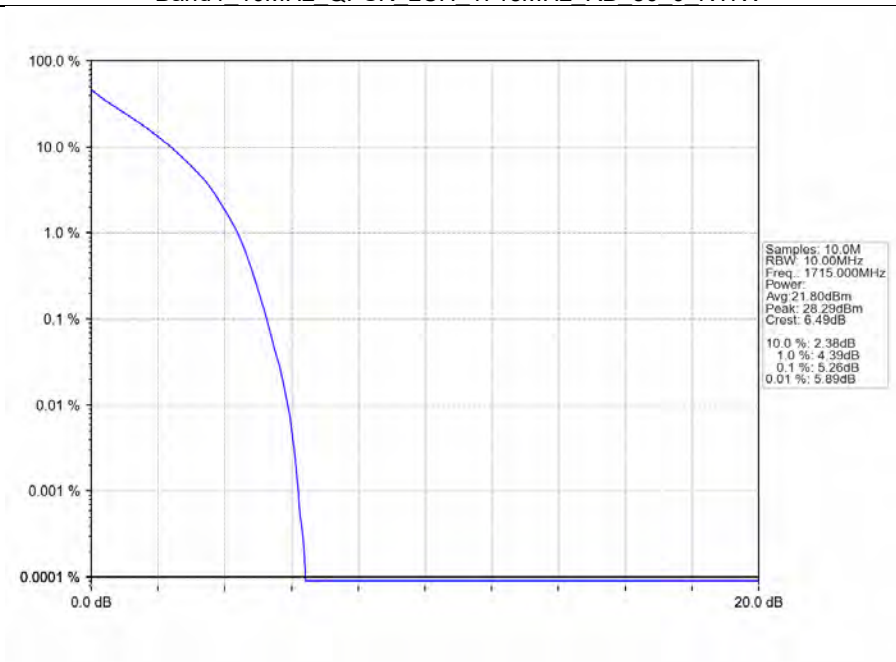
4.4.2 Test Graph

Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV

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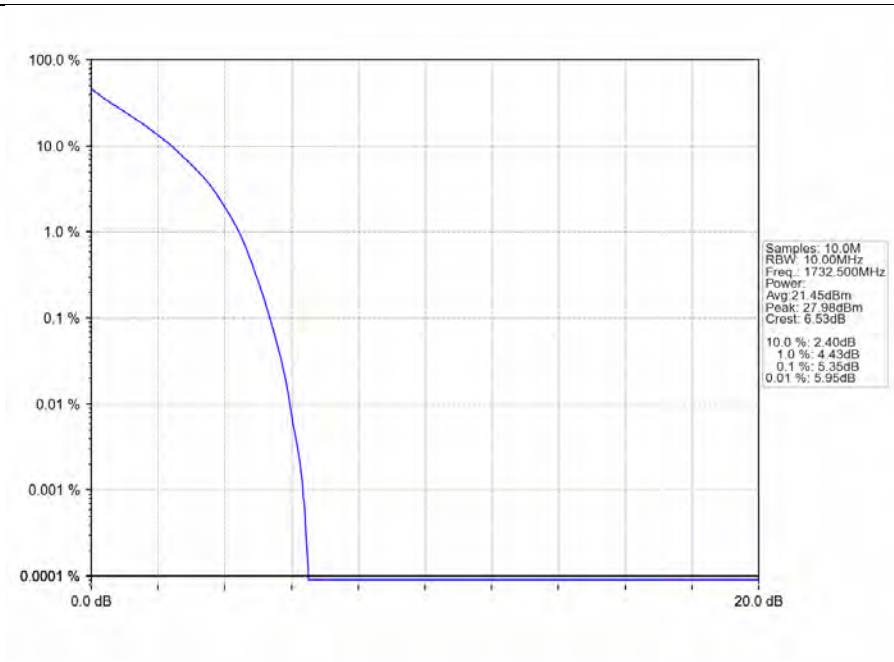

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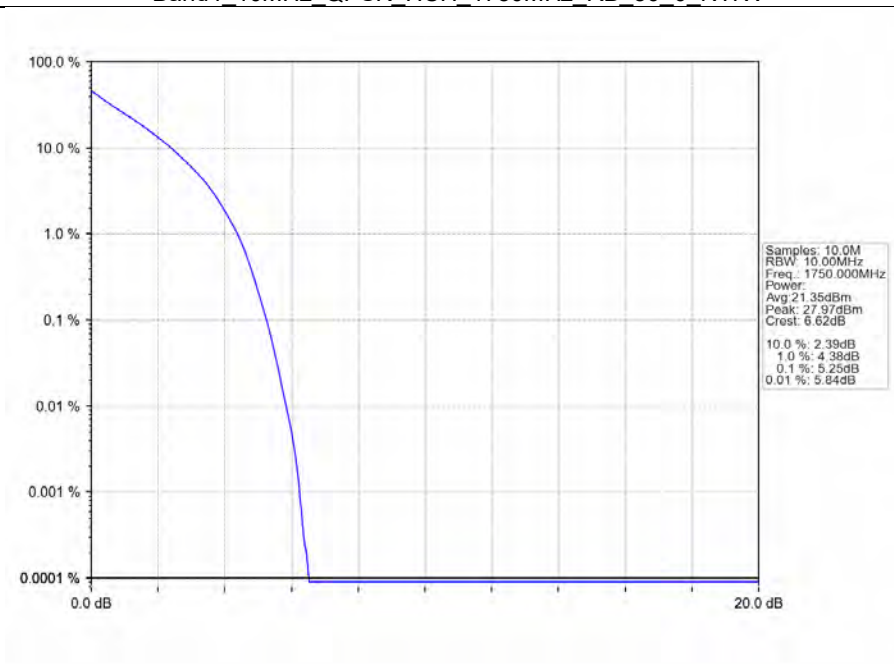
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

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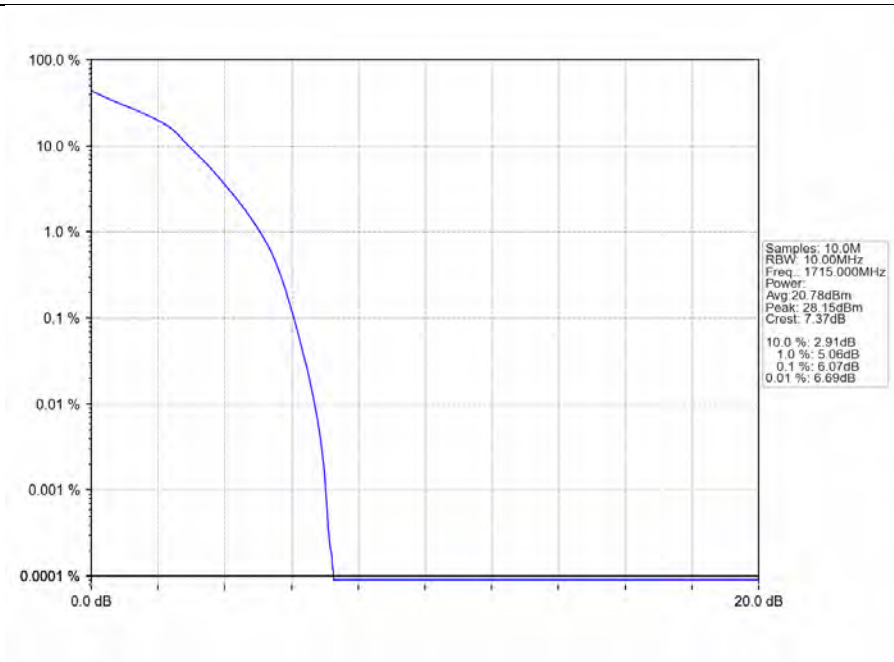

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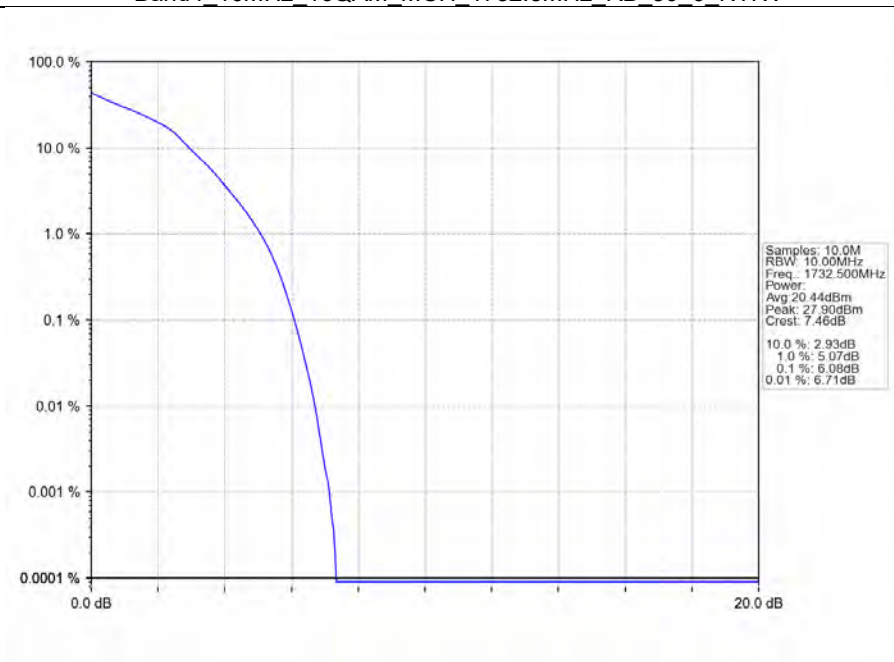
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

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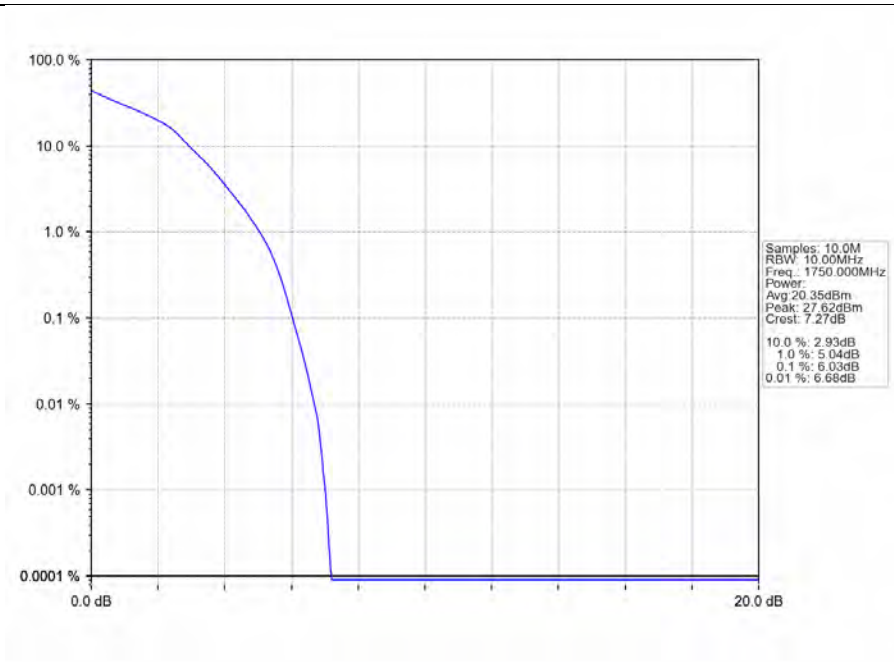

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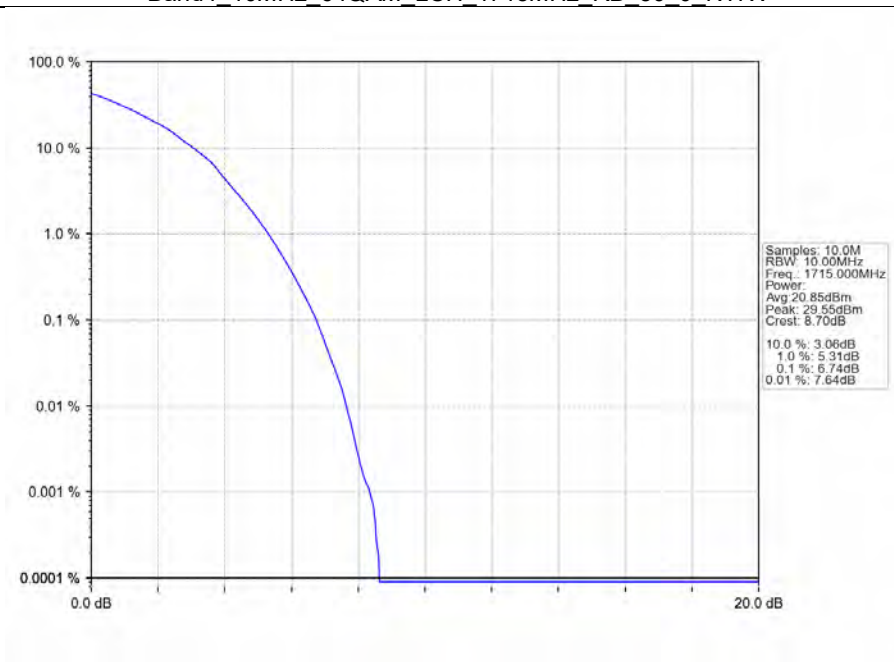

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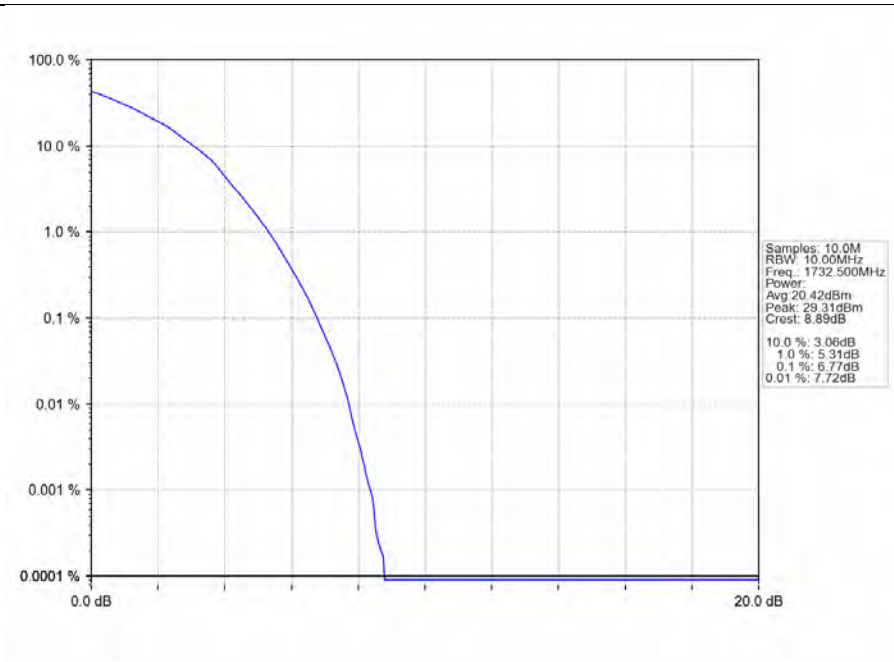

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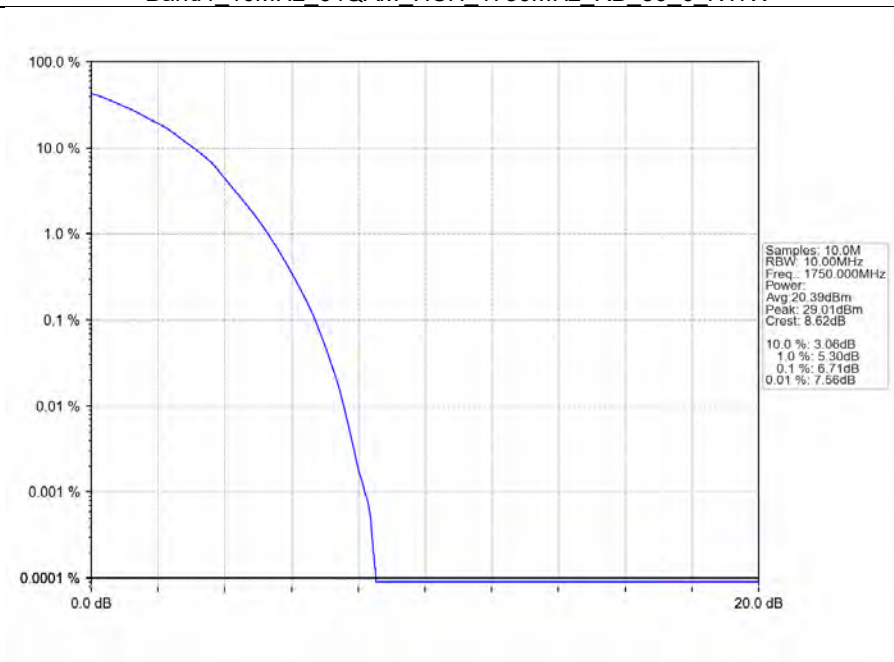

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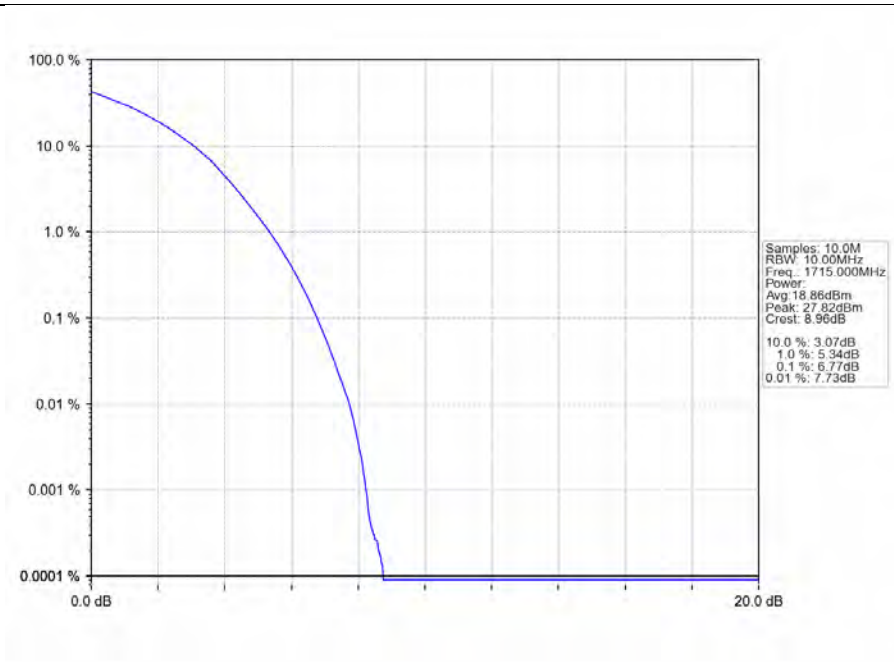

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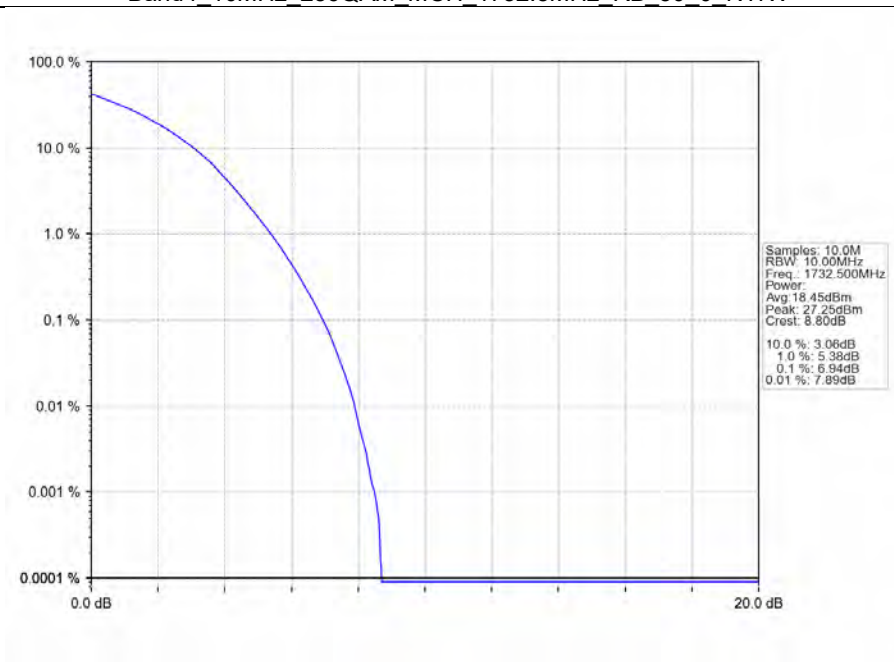
Band4_10MHz_256QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_256QAM_HCH_1750MHz_RB_50_0_NTNV

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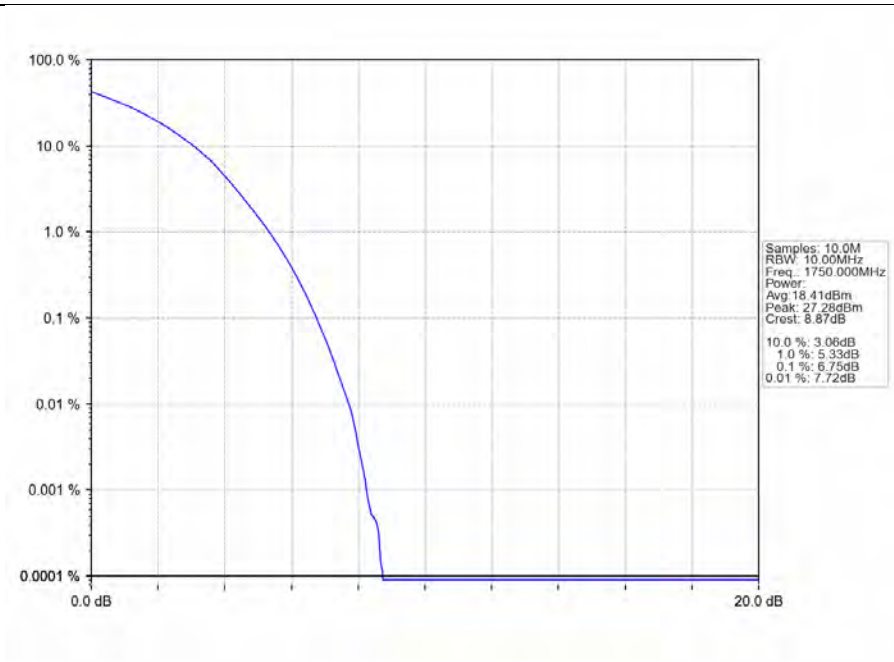

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4.5 B4_15MHz

4.5.1 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	5.47	<=13	Pass
	1732.5	75	0	5.51	<=13	Pass
	1747.5	75	0	5.42	<=13	Pass
16QAM	1717.5	75	0	6.16	<=13	Pass
	1732.5	75	0	6.21	<=13	Pass
	1747.5	75	0	6.11	<=13	Pass
64QAM	1717.5	75	0	6.73	<=13	Pass
	1732.5	75	0	6.80	<=13	Pass
	1747.5	75	0	6.70	<=13	Pass
256QAM	1717.5	75	0	6.80	<=13	Pass
	1732.5	75	0	6.87	<=13	Pass
	1747.5	75	0	6.83	<=13	Pass

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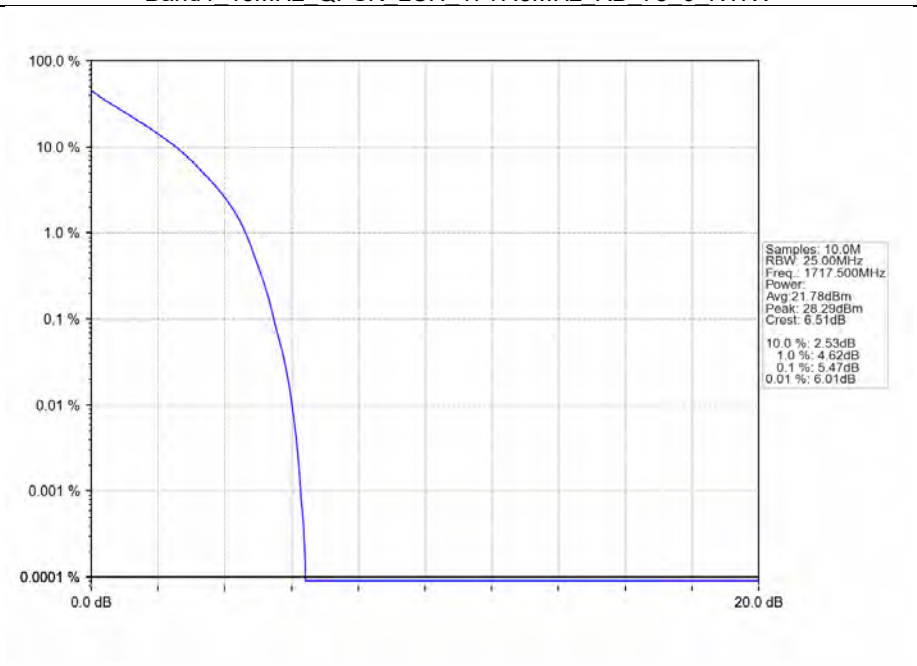
4.5.2 Test Graph

Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



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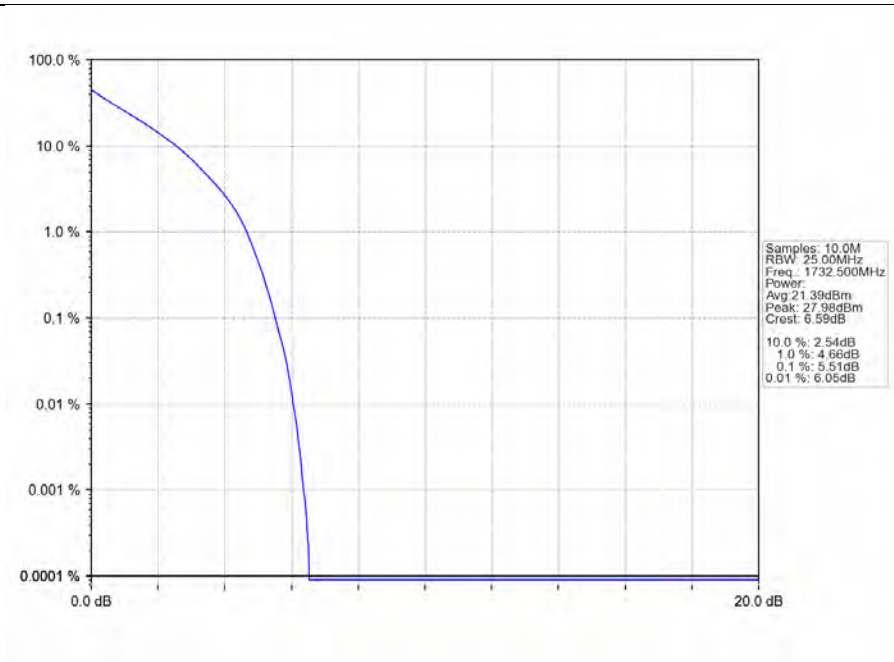

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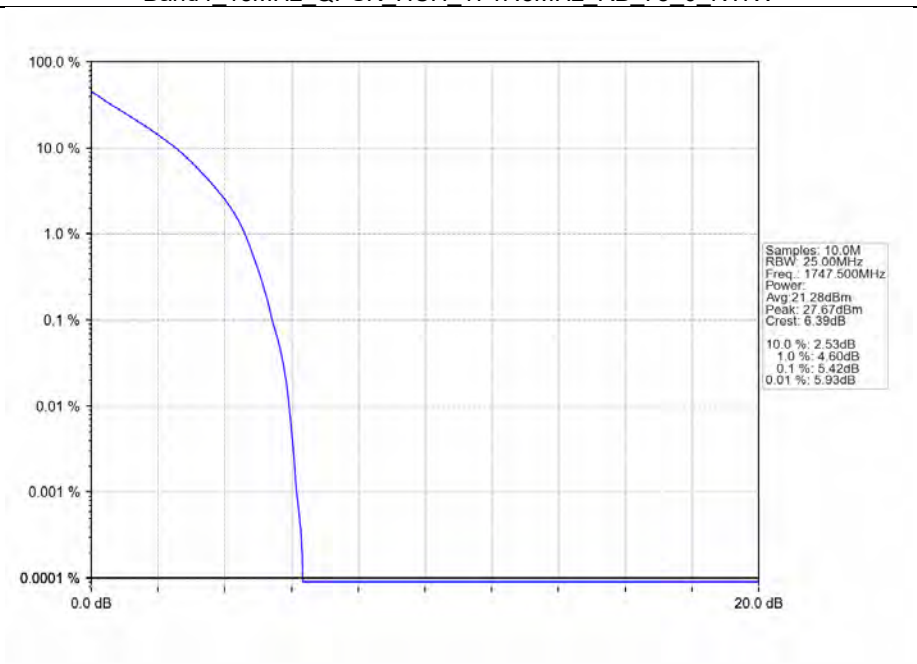

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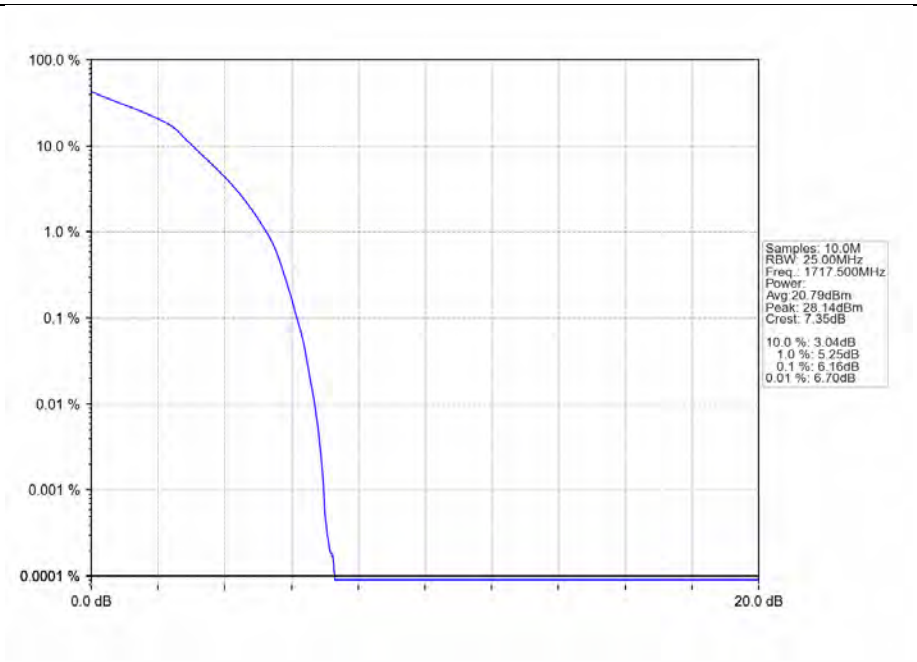

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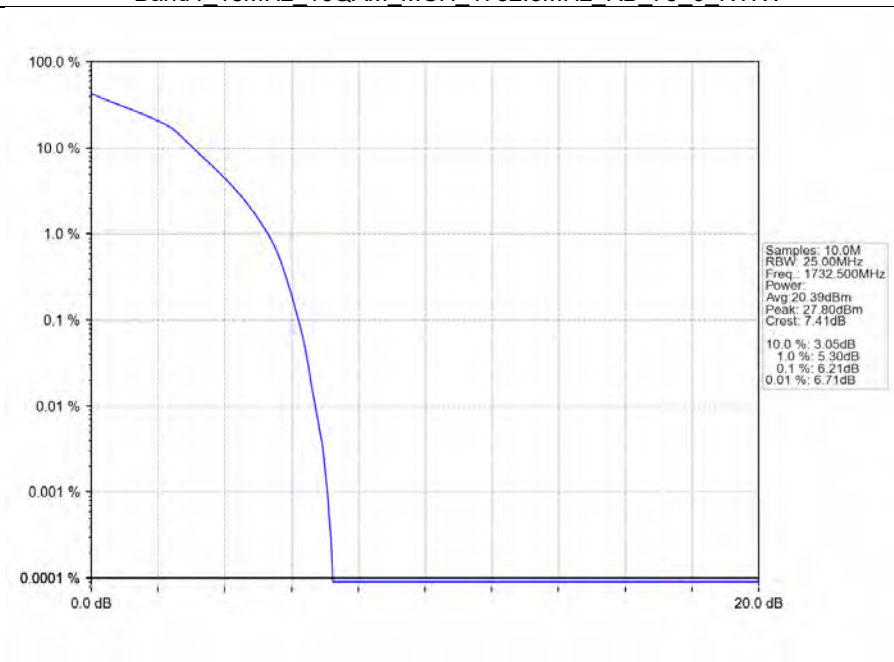

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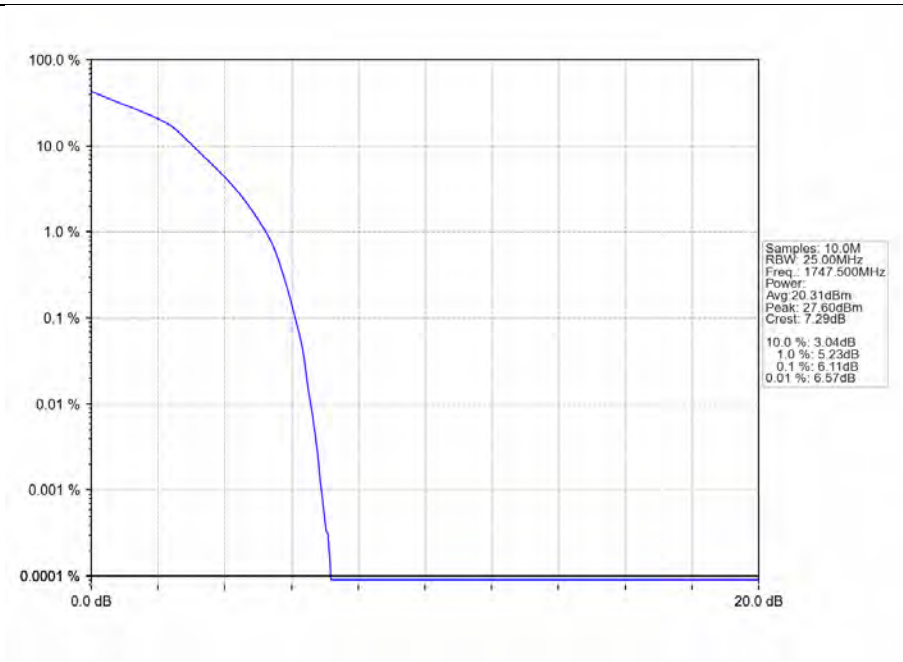

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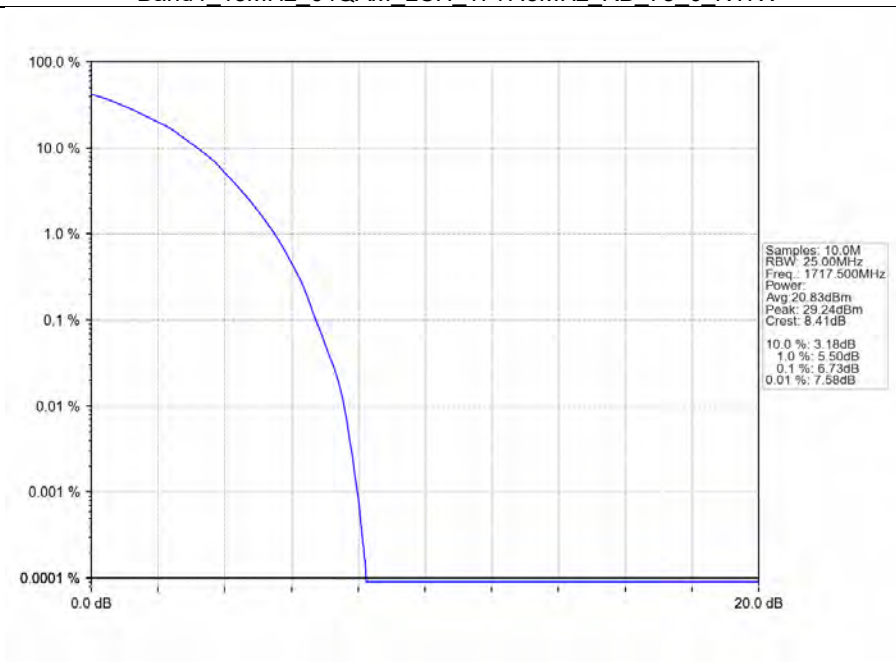

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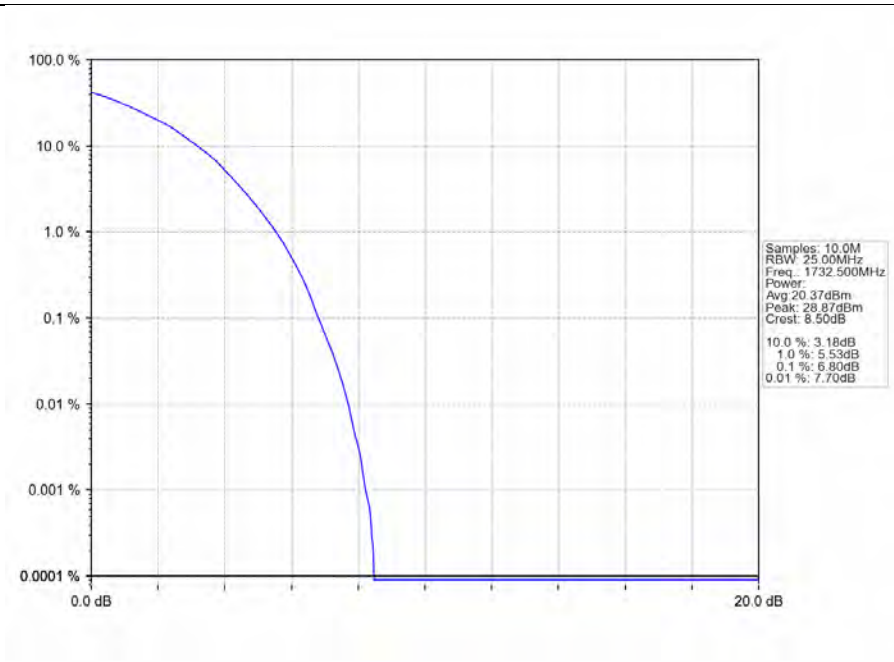

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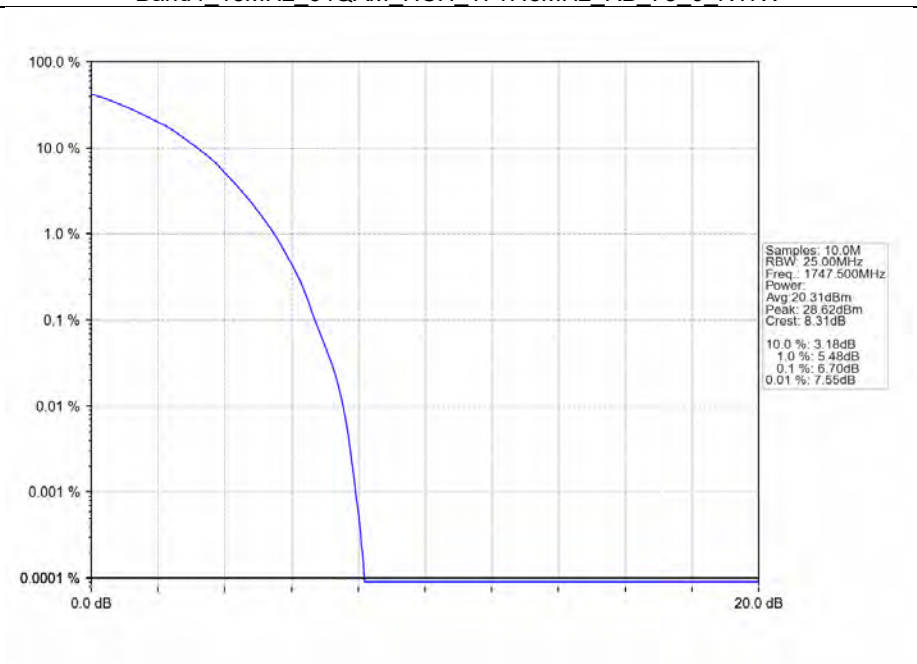

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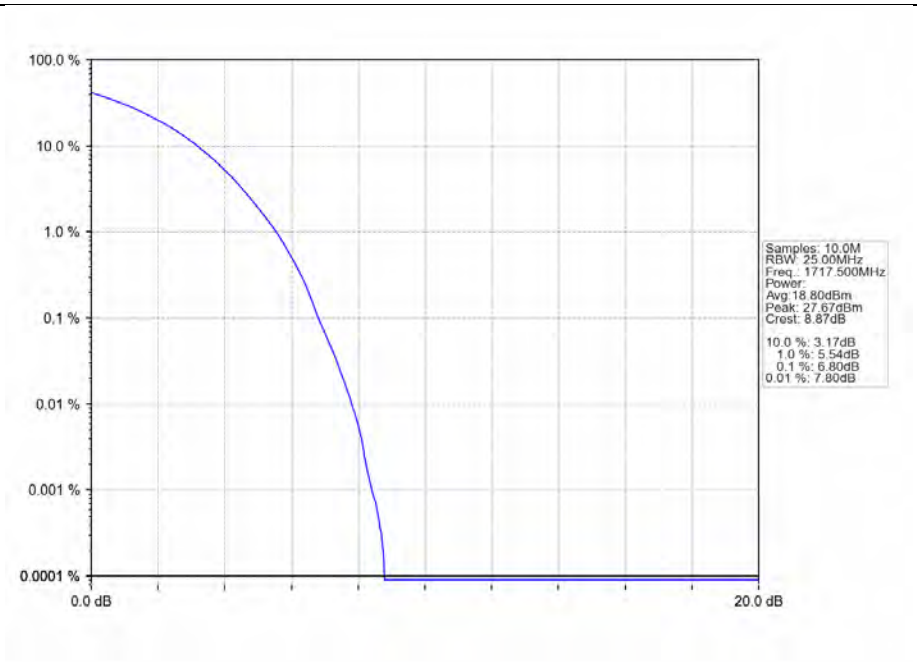

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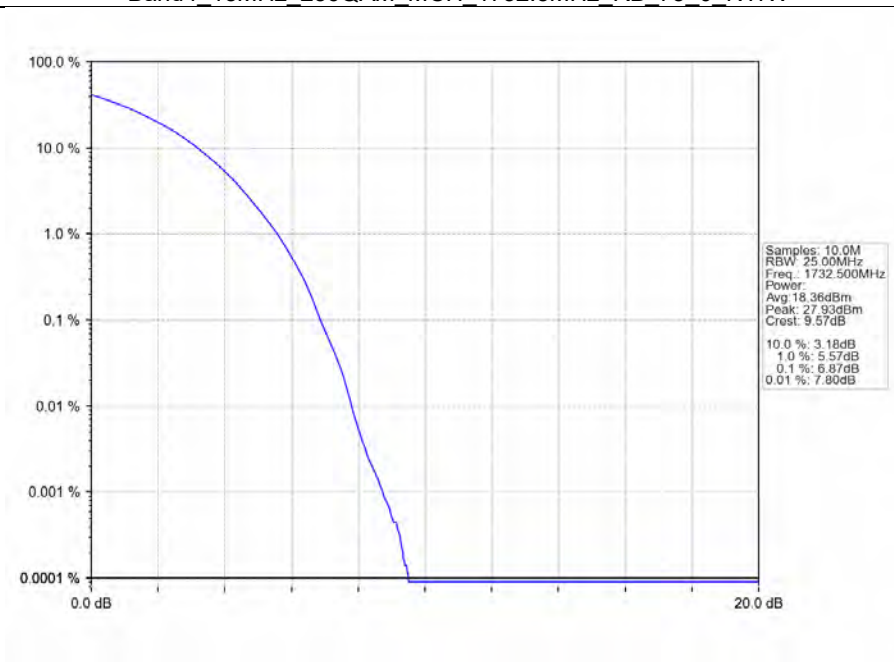

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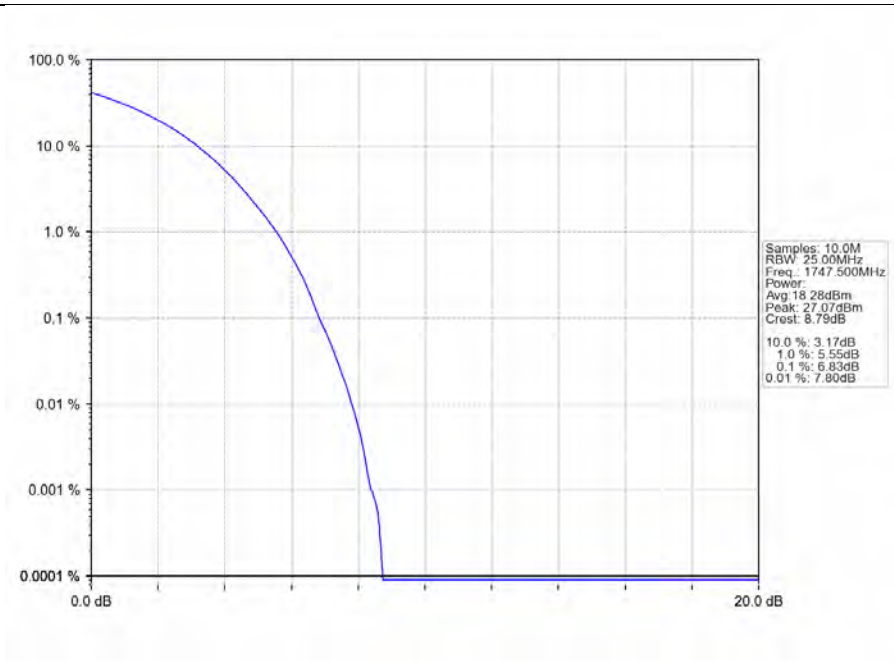

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4.6 B4_20MHz

4.6.1 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	5.28	<=13	Pass
	1732.5	100	0	5.30	<=13	Pass
	1745	100	0	5.15	<=13	Pass
16QAM	1720	100	0	6.08	<=13	Pass
	1732.5	100	0	6.08	<=13	Pass
	1745	100	0	5.95	<=13	Pass
64QAM	1720	100	0	6.73	<=13	Pass
	1732.5	100	0	6.75	<=13	Pass
	1745	100	0	6.71	<=13	Pass
256QAM	1720	100	0	6.81	<=13	Pass
	1732.5	100	0	6.79	<=13	Pass
	1745	100	0	6.81	<=13	Pass

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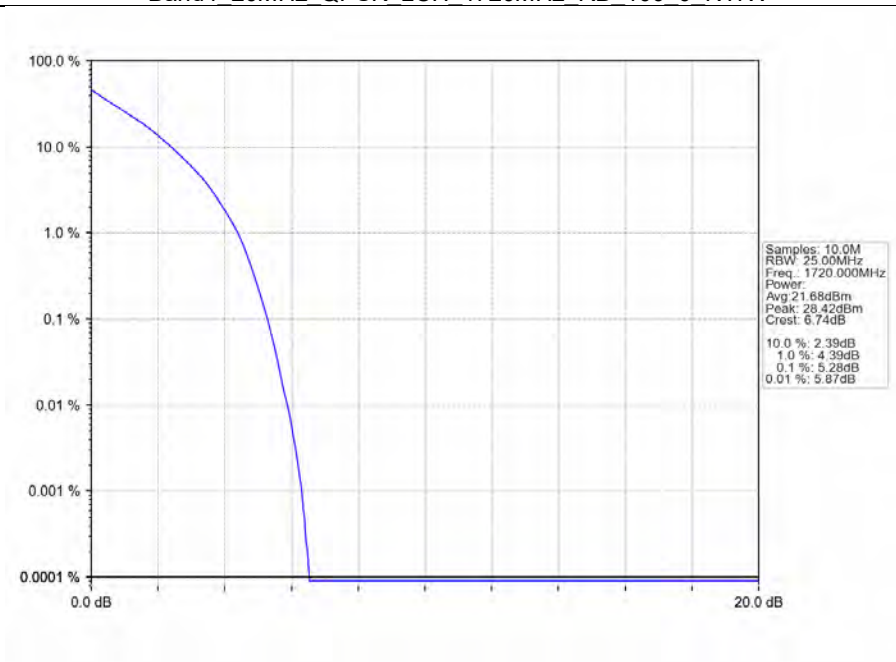
4.6.2 Test Graph

Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV

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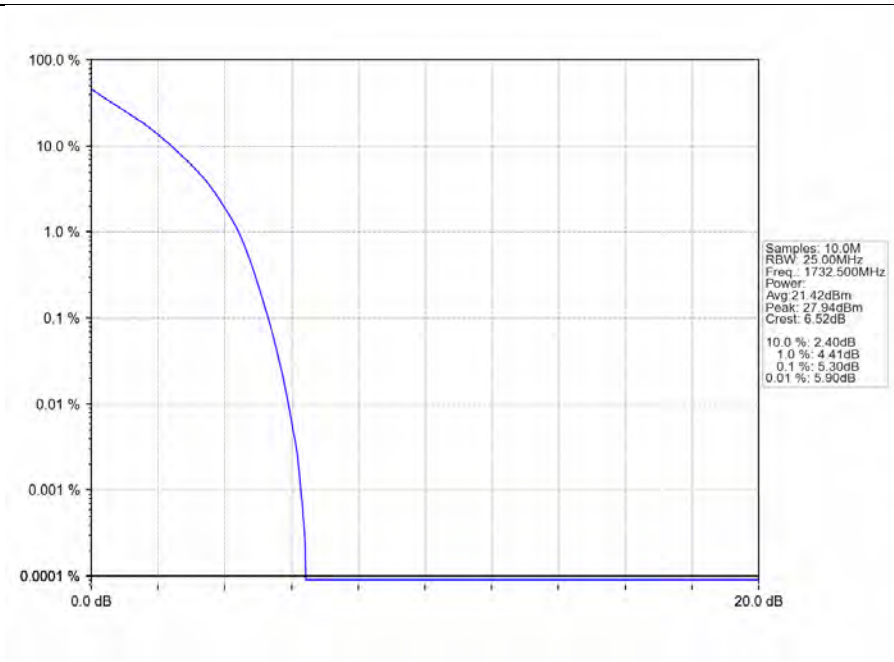

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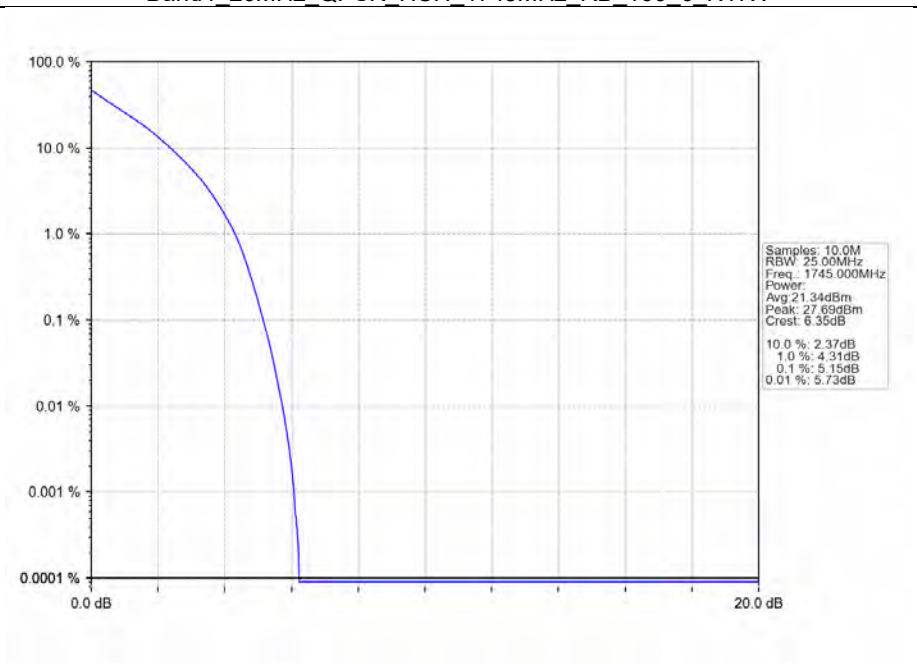
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

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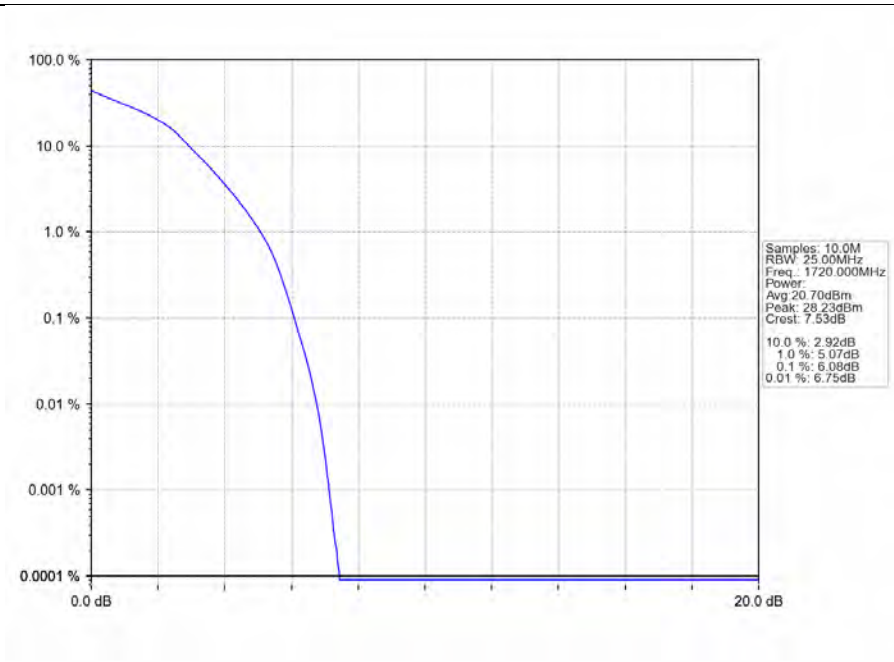

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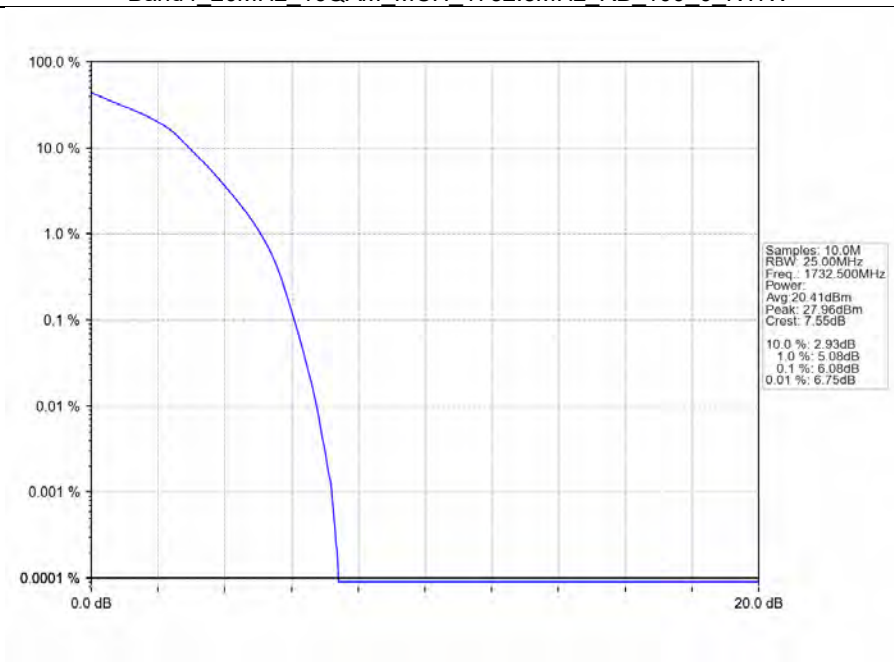
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

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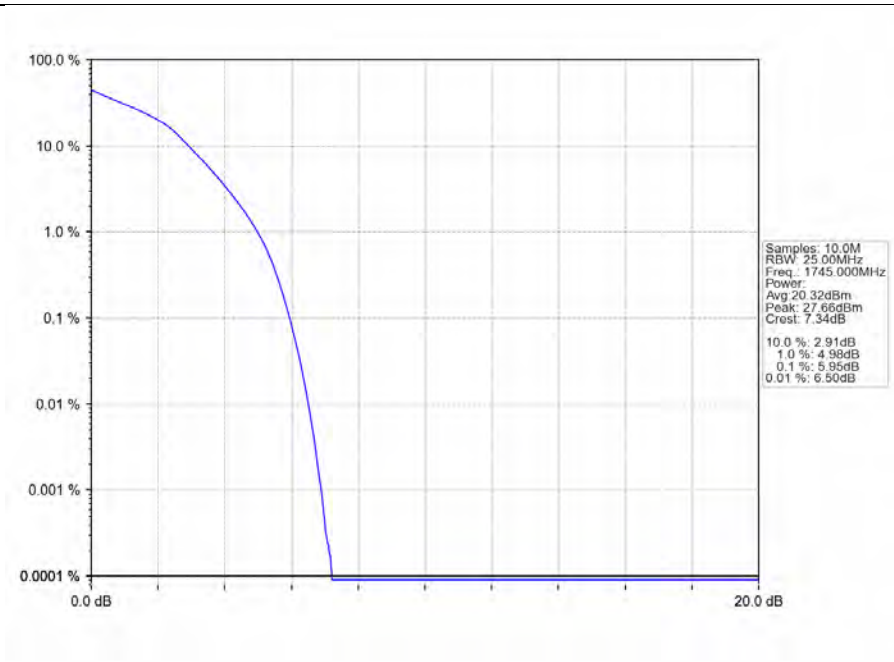

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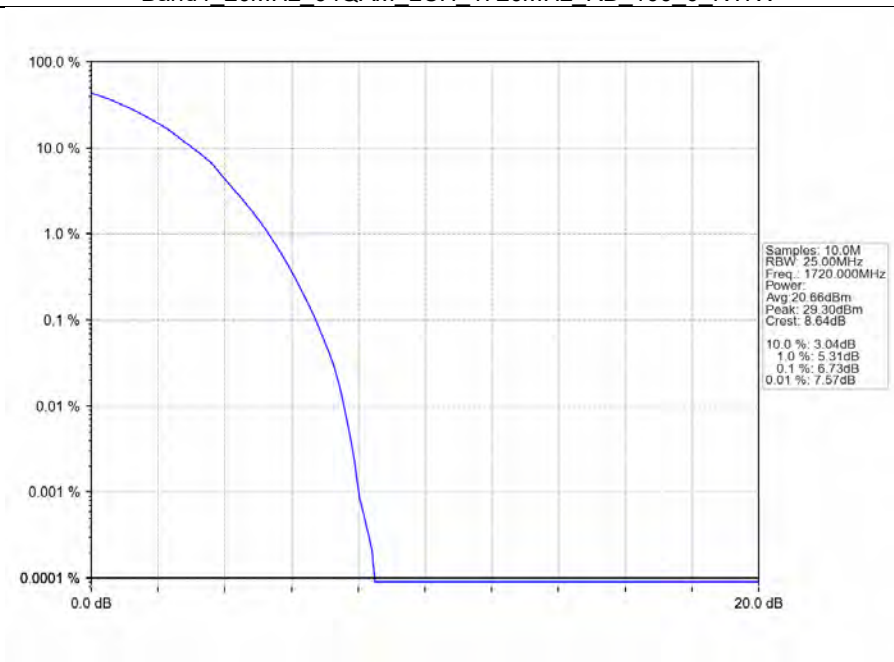
Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_64QAM_MCH_1732.5MHz_RB_100_0_NTNV

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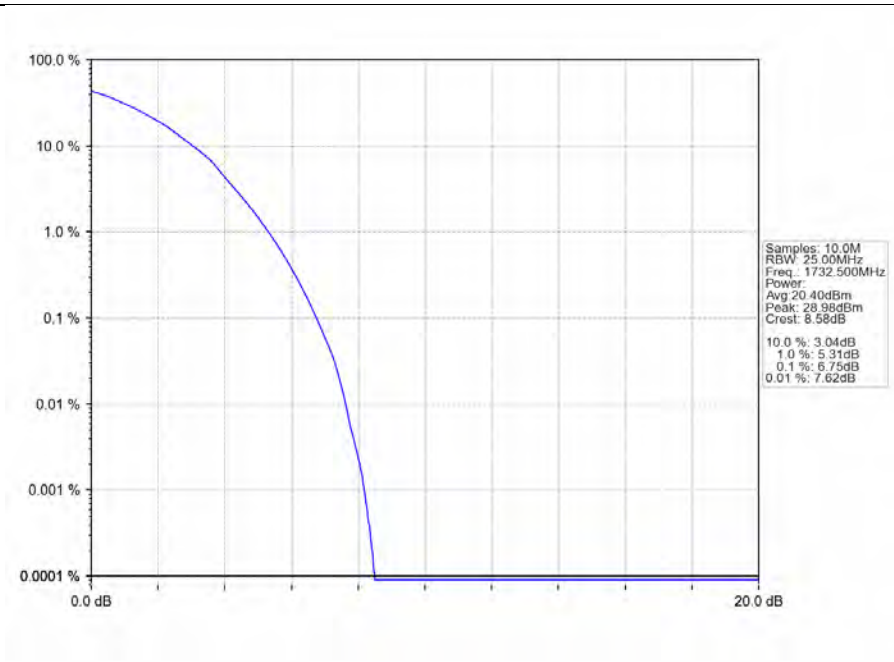

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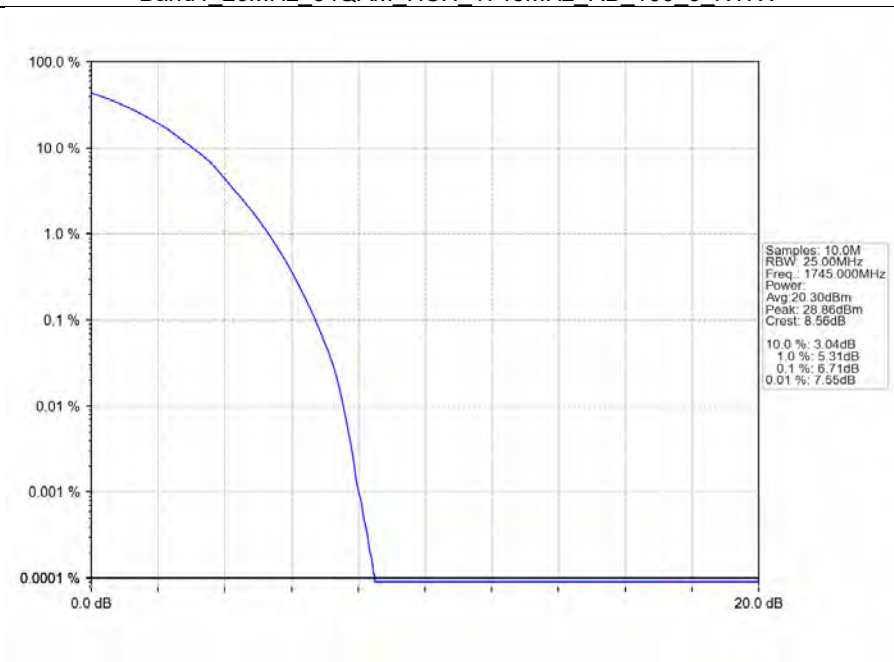

Band4_20MHz_256QAM_LCH_1720MHz_RB_100_0_NTNV

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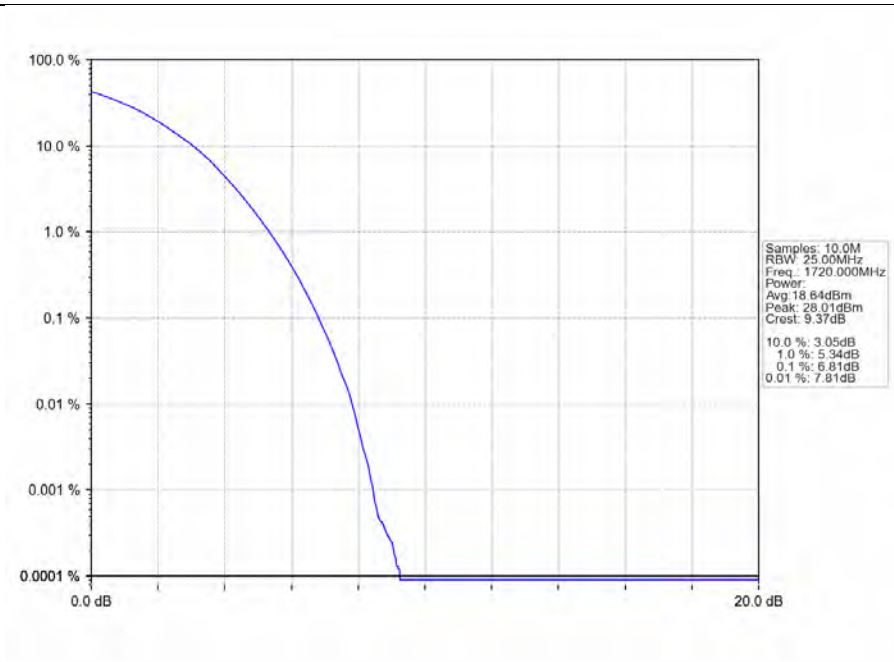

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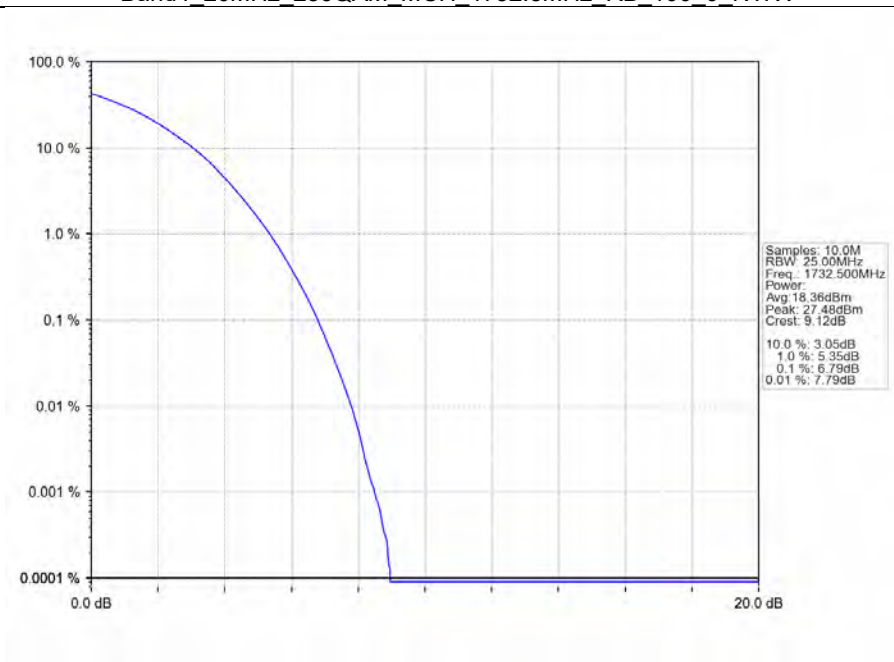
Band4_20MHz_256QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_256QAM_HCH_1745MHz_RB_100_0_NTNV

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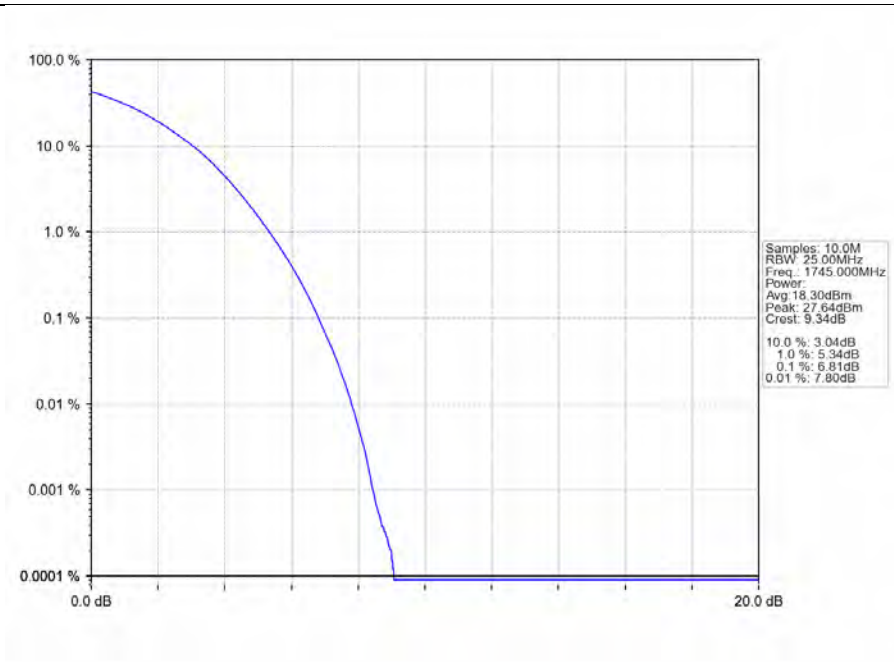

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5. Spurious Emission & Band Edges

5.1 B4_1.4MHz

5.1.1 Test Result

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
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
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
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
256QAM	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

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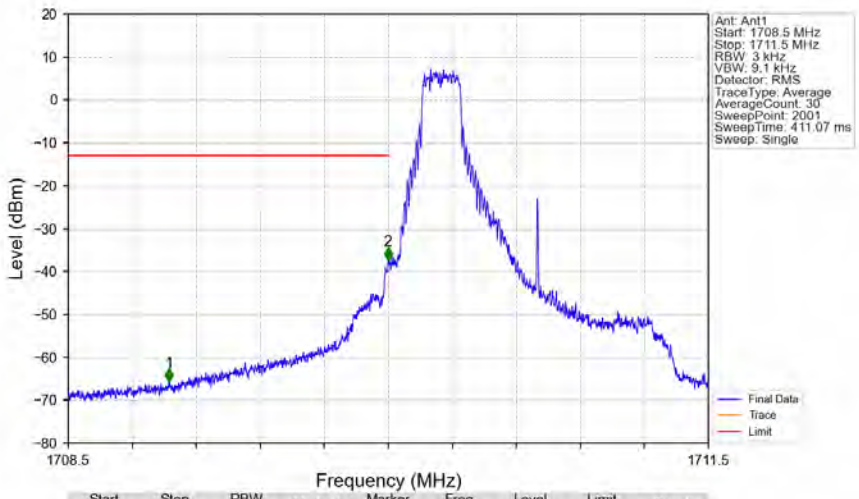
5.1.2 Test Graph

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
1708.5	1709	1	/	1	1708.973	-65.77	-13	Pass
1709	1710	0.003	/	2	1709.998	-37.43	-13	Pass
1710	1711.5	0.003	/	/	/	/	/	/

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

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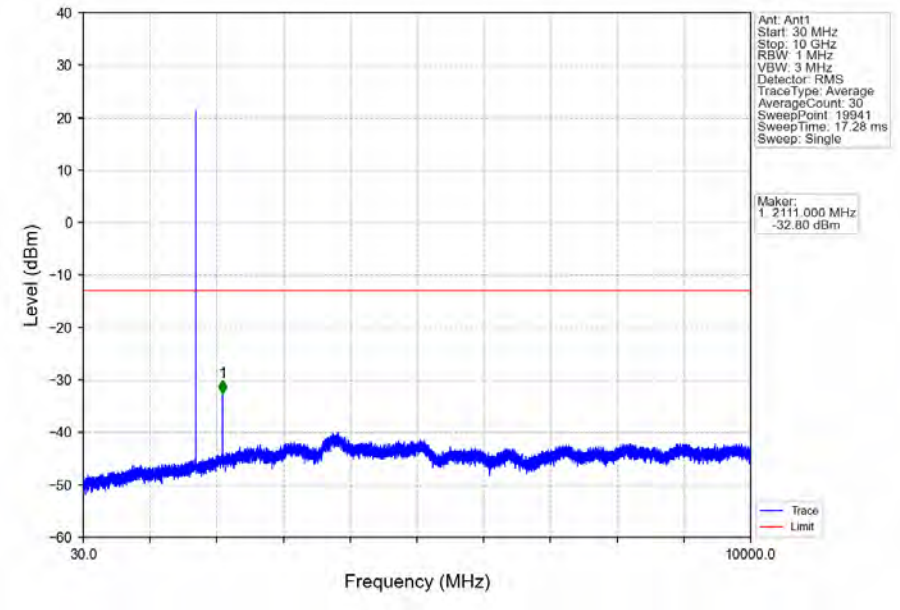

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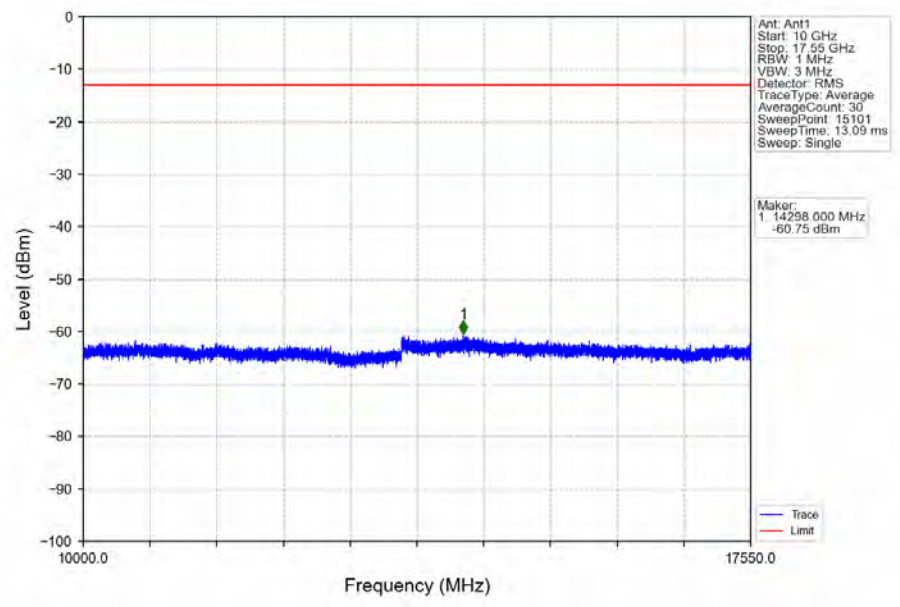
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

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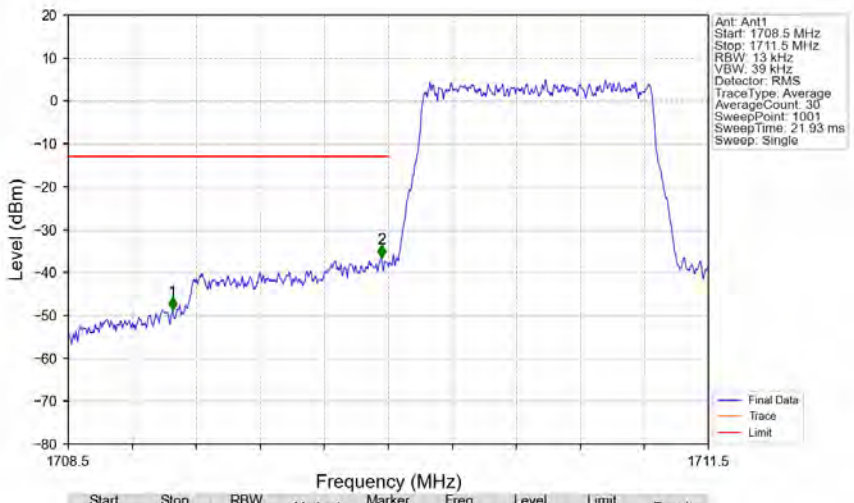

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.989	-48.85	-13	Pass
1709	1710	0.013	/	2	1709.967	-36.58	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

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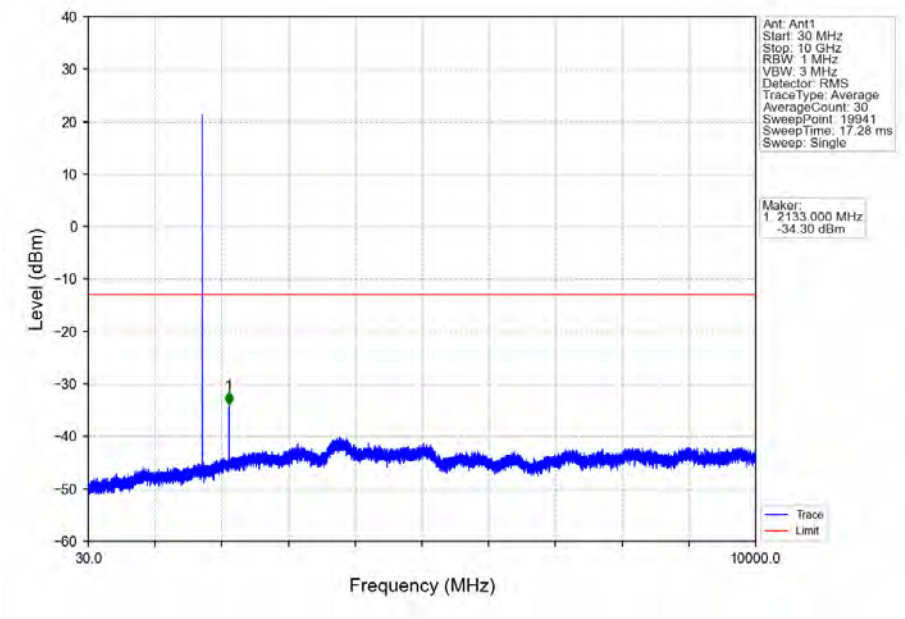
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

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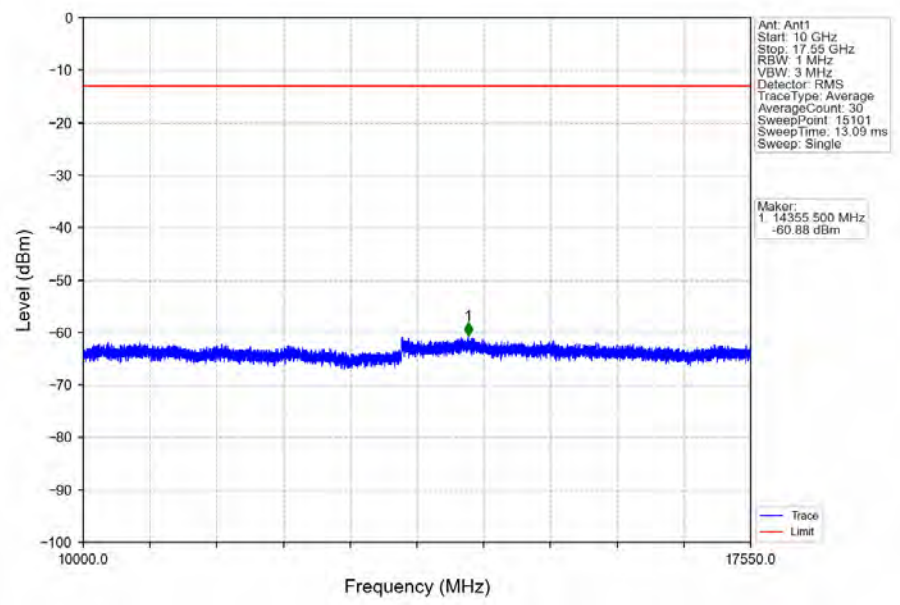

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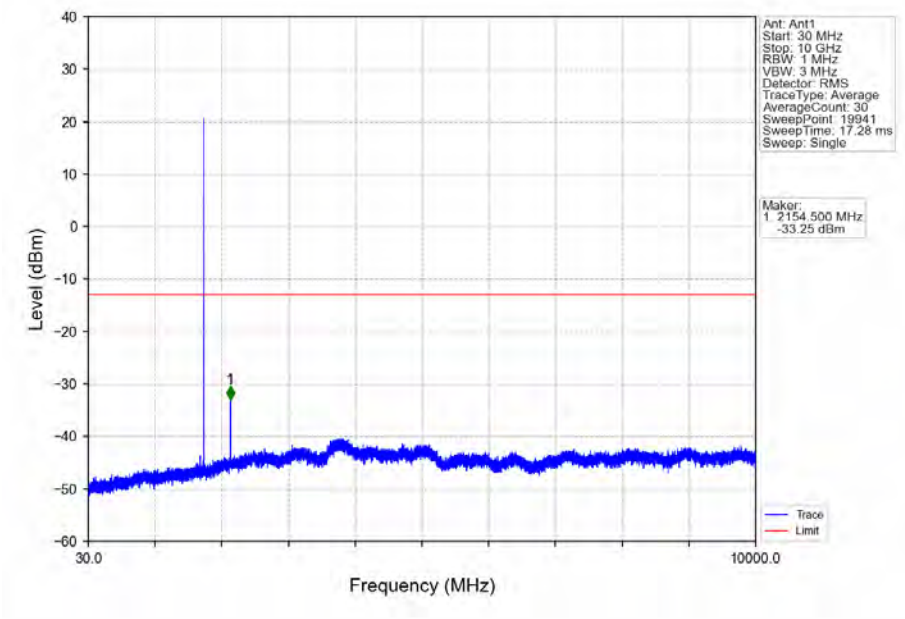

Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

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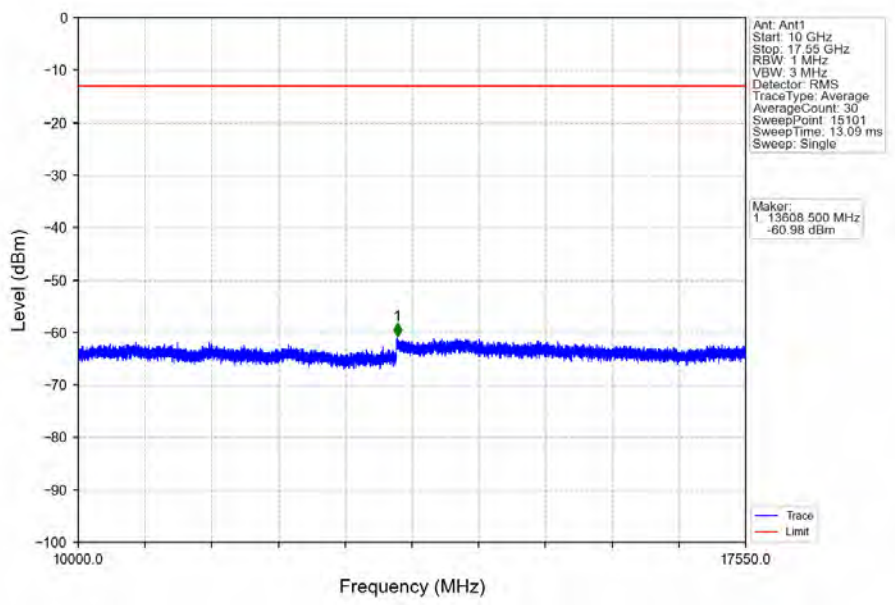

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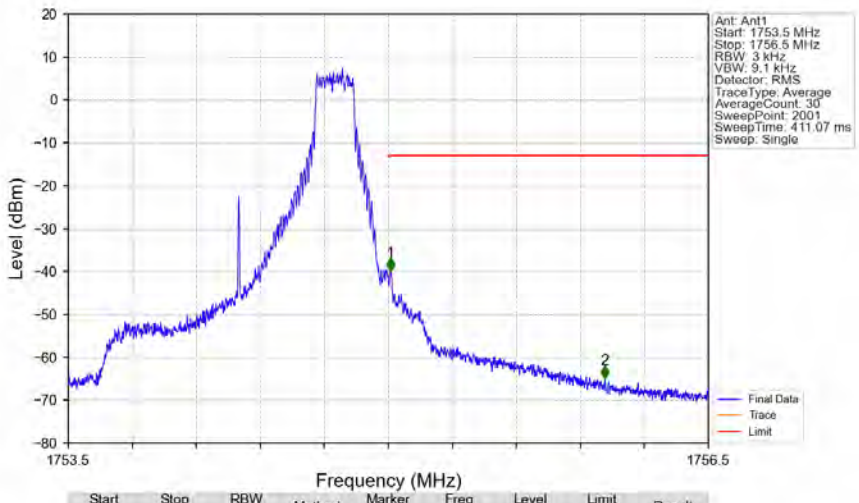

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.009	-40.04	-13	Pass
1756	1756.5	1	/	2	1756.015	-64.97	-13	Pass

Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV

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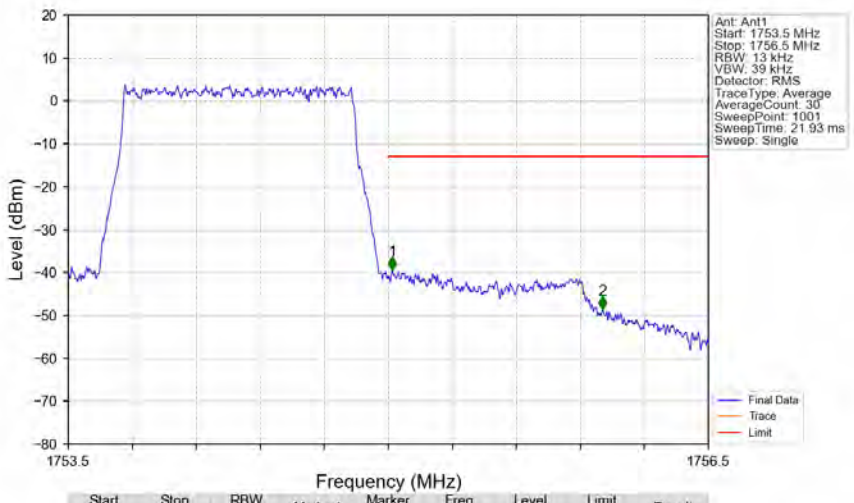

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.013	/	/	/	/	/	/
1755	1756	0.013	/	1	1755.018	-39.43	-13	Pass
1756	1756.5	1	/	2	1756.005	-48.68	-13	Pass

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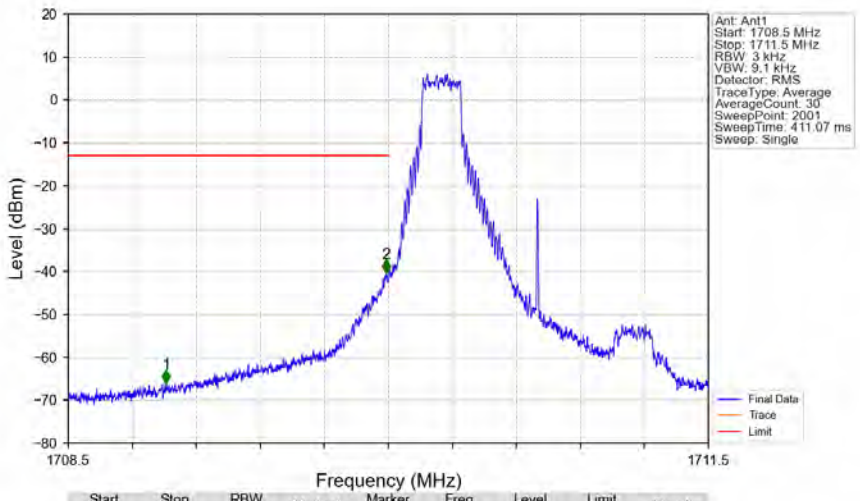

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.959	-66.13	-13	Pass
1709	1710	0.003	/	2	1709.991	-40.34	-13	Pass
1710	1711.5	0.003	/	/	/	/	/	/

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

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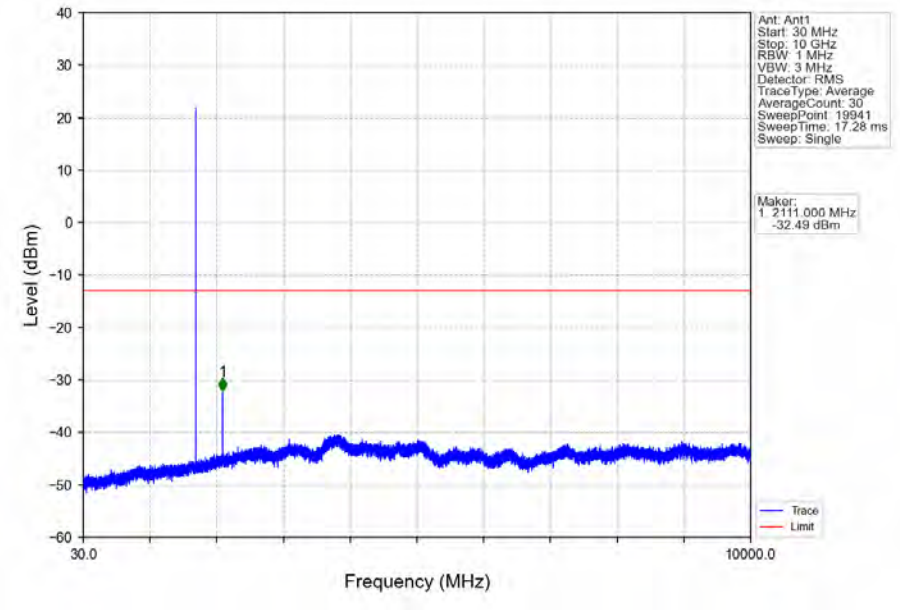

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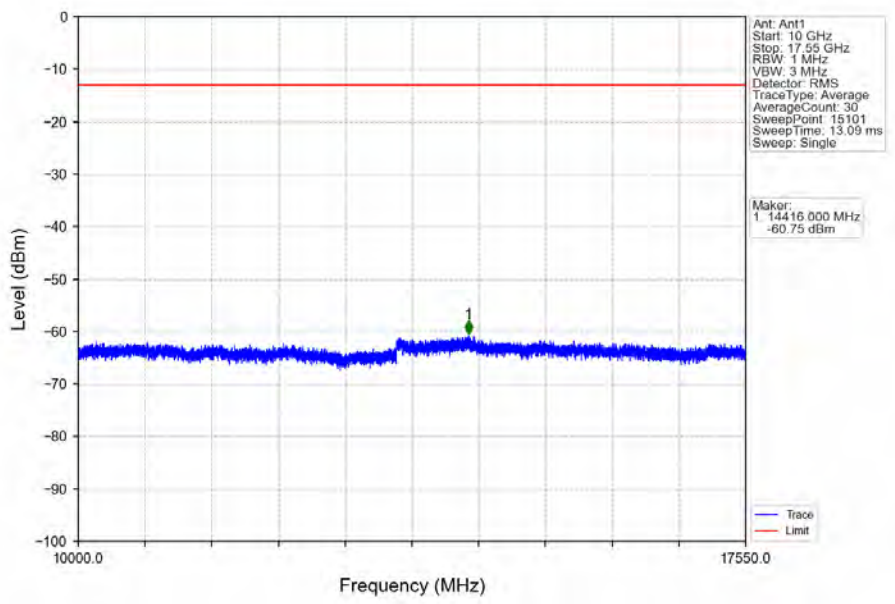

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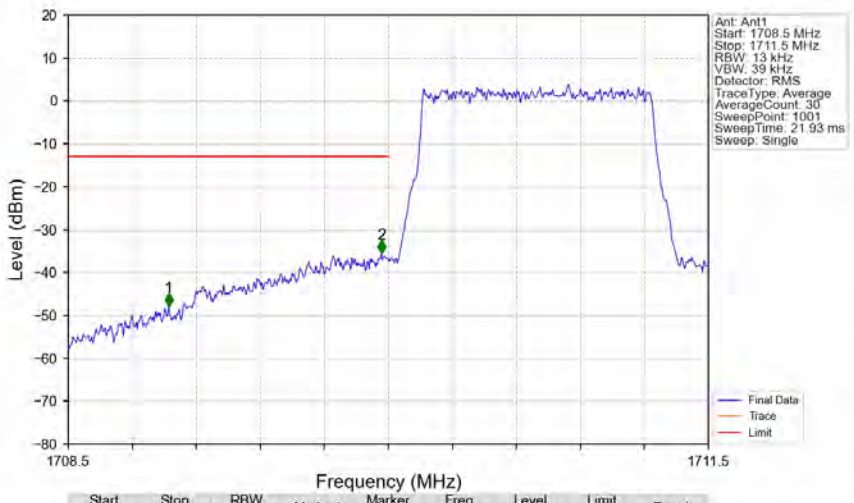

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.971	-47.89	-13	Pass
1709	1710	0.013	/	2	1709.967	-35.52	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

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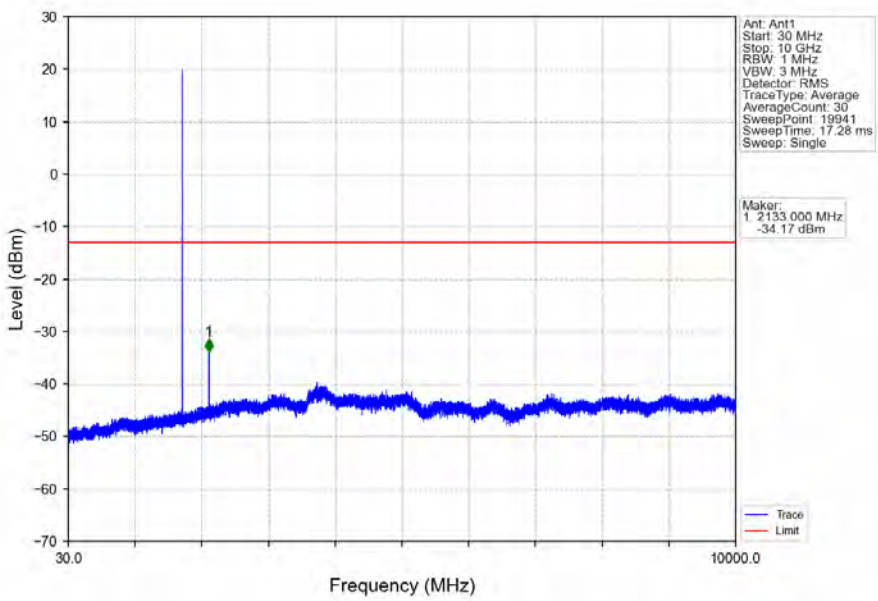

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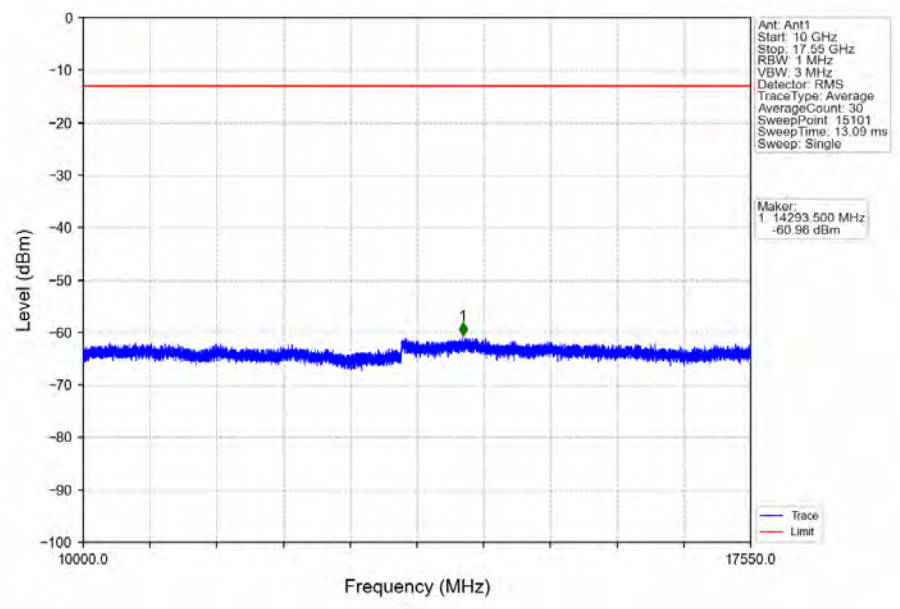

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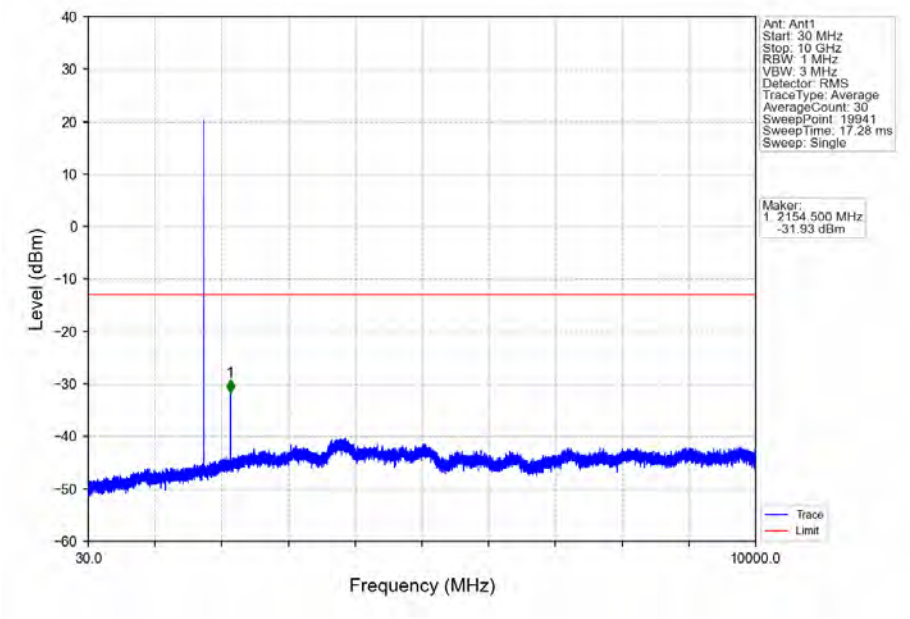

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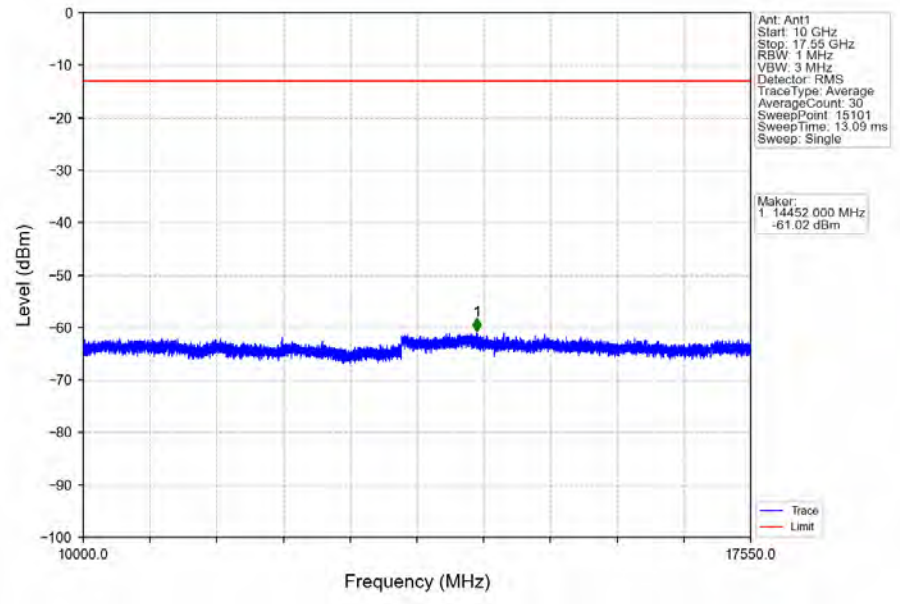

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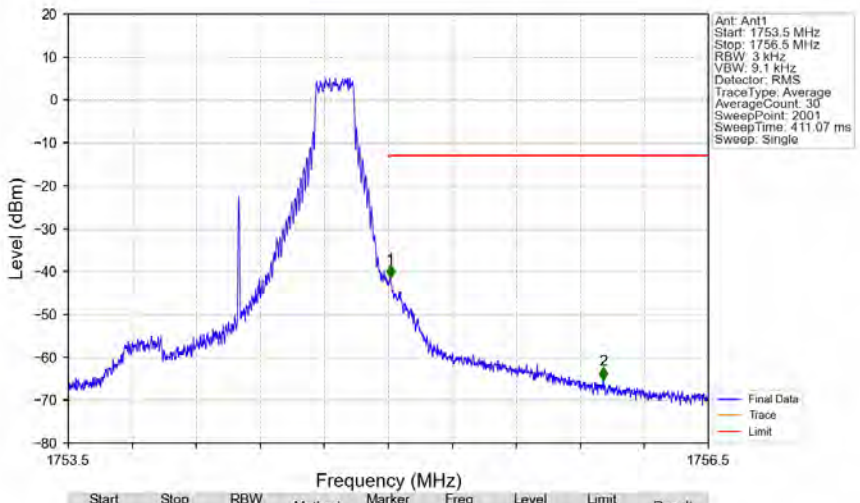

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.009	-41.61	-13	Pass
1756	1756.5	1	/	2	1756.006	-65.29	-13	Pass

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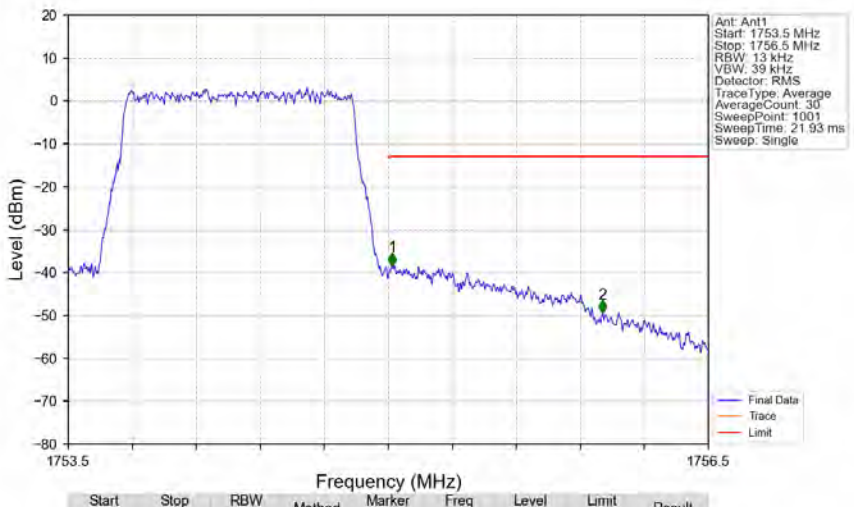

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.013	/	/	/	/	/	/
1755	1756	0.013	/	1	1755.018	-38.47	-13	Pass
1756	1756.5	1	/	2	1756.005	-49.46	-13	Pass

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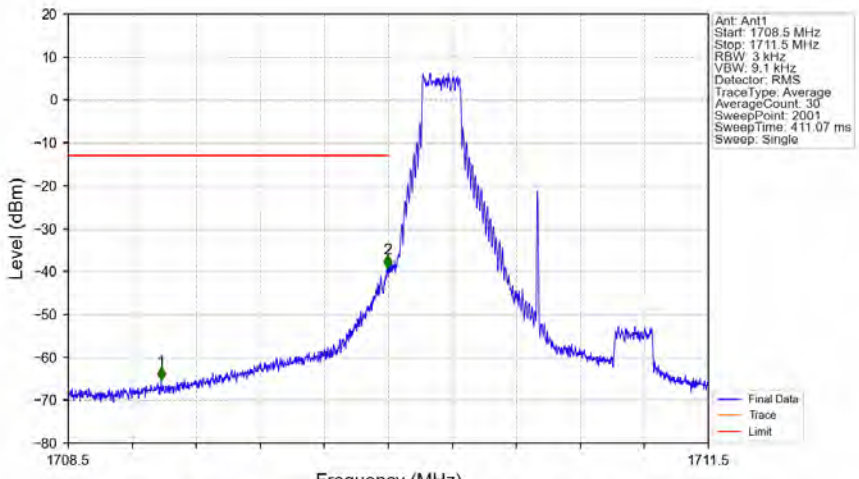

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.935	-65.43	-13	Pass
1709	1710	0.003	/	2	1709.995	-39.28	-13	Pass
1710	1711.5	0.003	/	/	/	/	/	/

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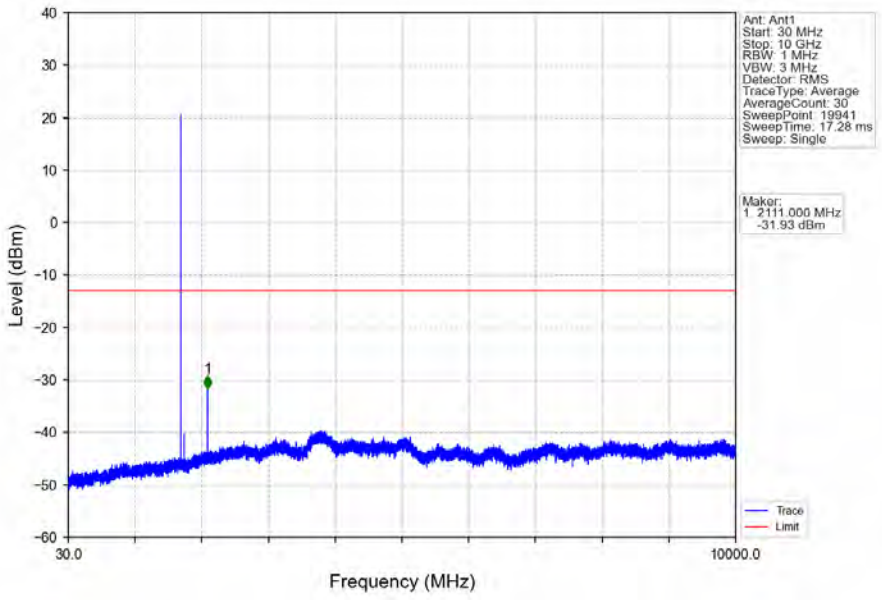

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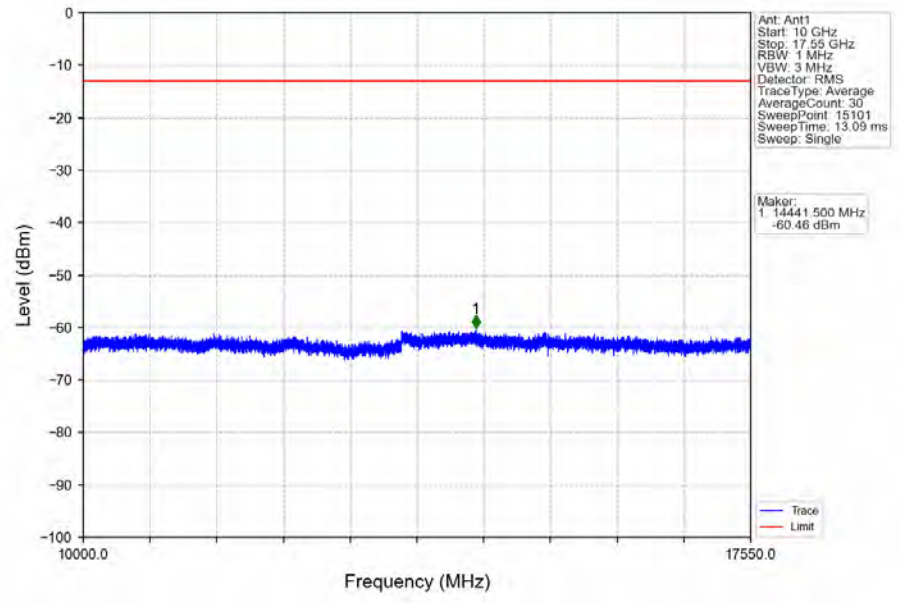

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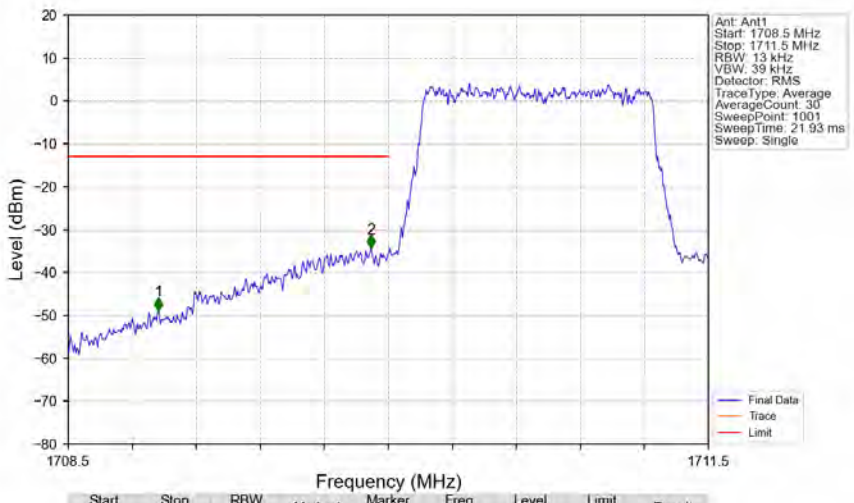

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.923	-48.90	-13	Pass
1709	1710	0.013	/	2	1709.919	-34.31	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

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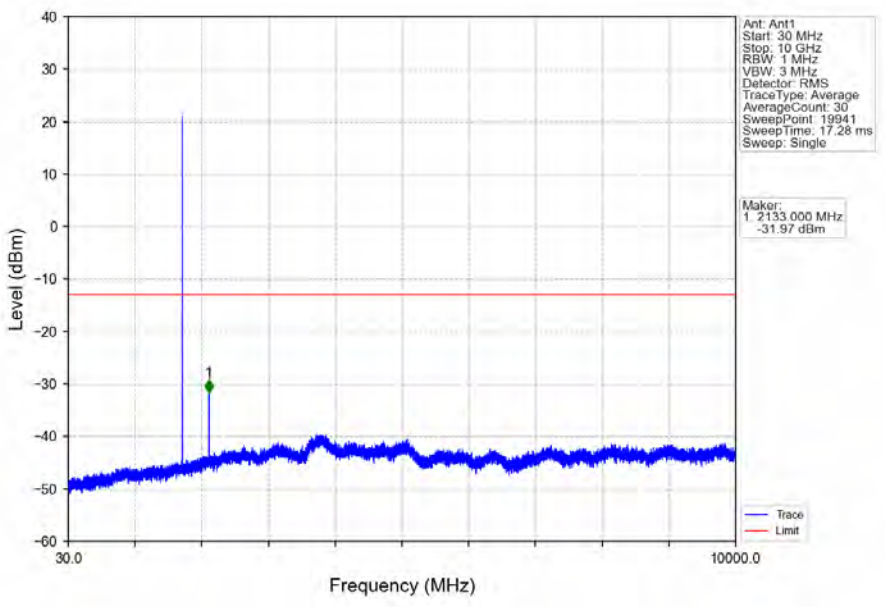
Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_1_0_NTNV



Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_1_0_NTNV

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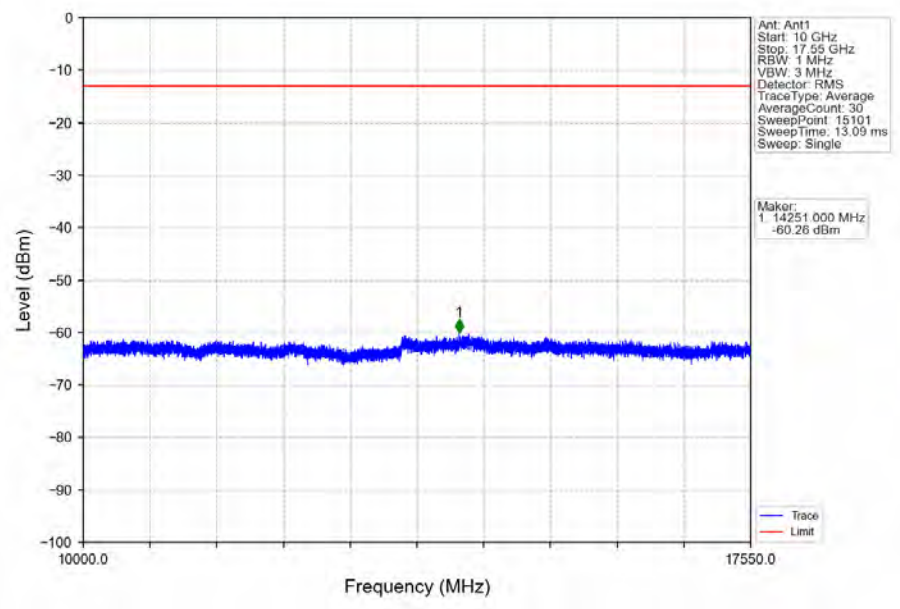

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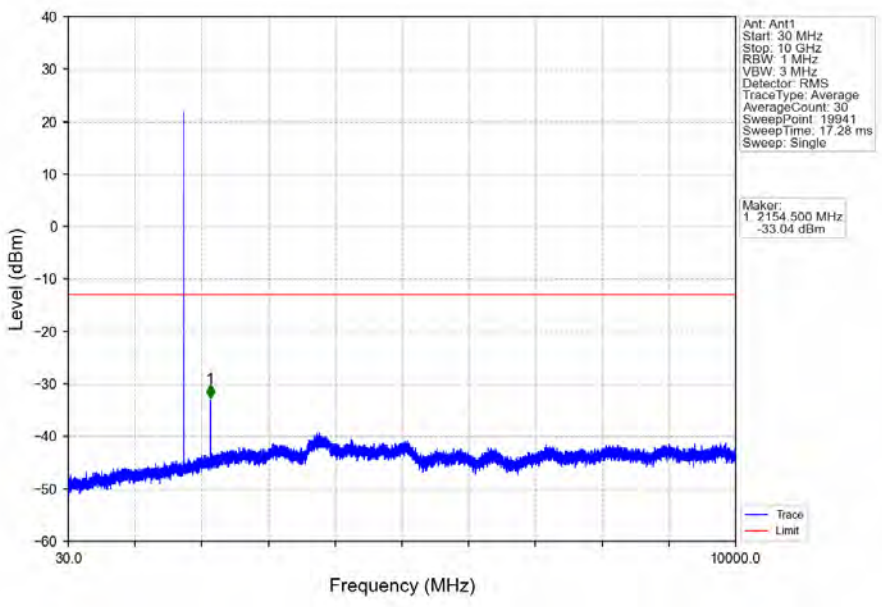
Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_1_0_NTNV



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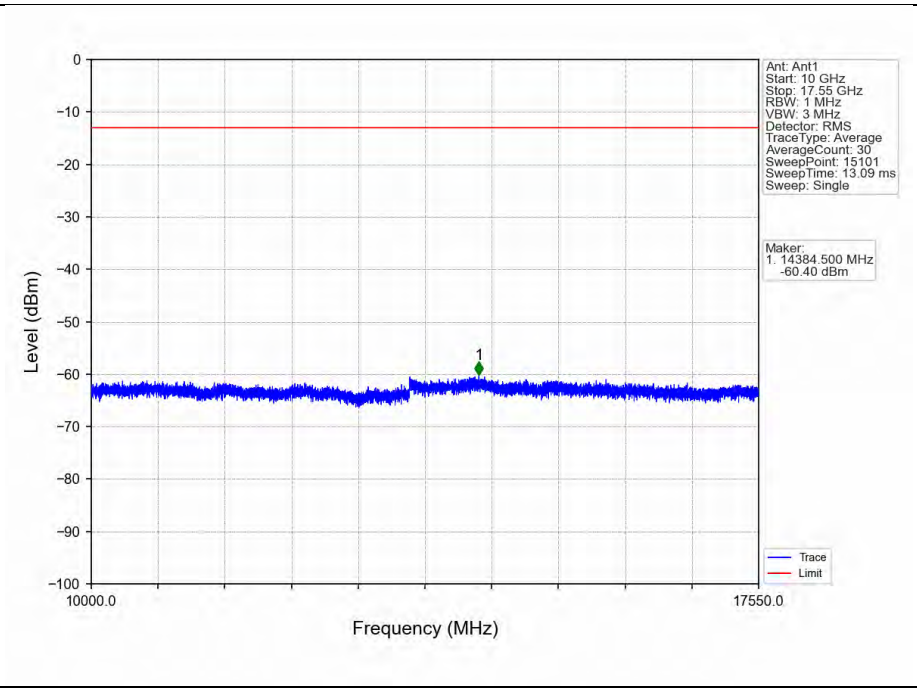

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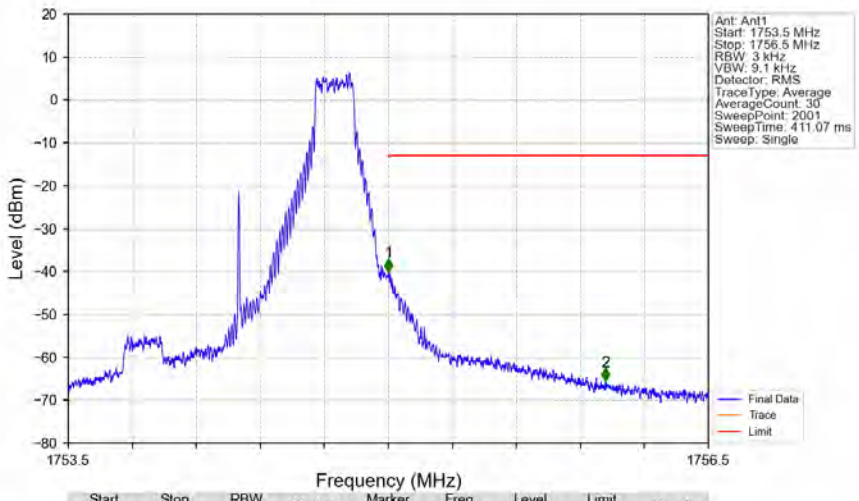

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-40.08	-13	Pass
1756	1756.5	1	/	2	1756.017	-65.55	-13	Pass

Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_6_0_NTNV

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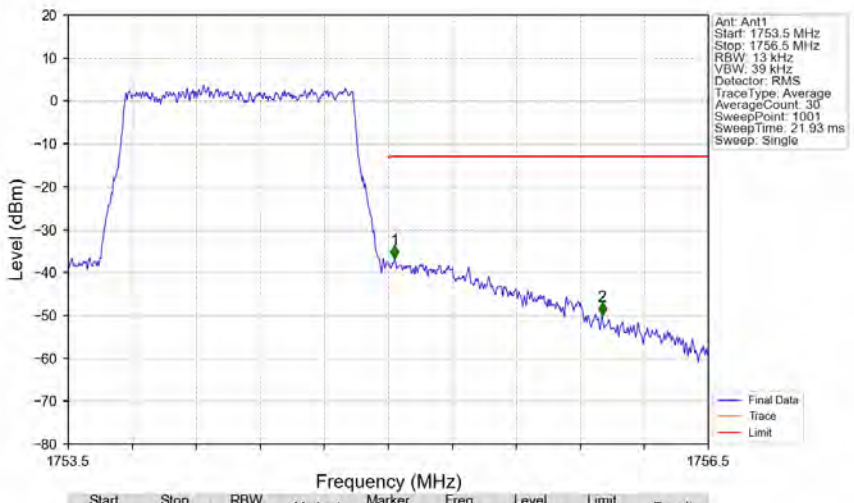

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.013	/	/	/	/	/	/
1755	1756	0.013	/	1	1755.030	-36.78	-13	Pass
1756	1756.5	1	/	2	1756.002	-49.97	-13	Pass

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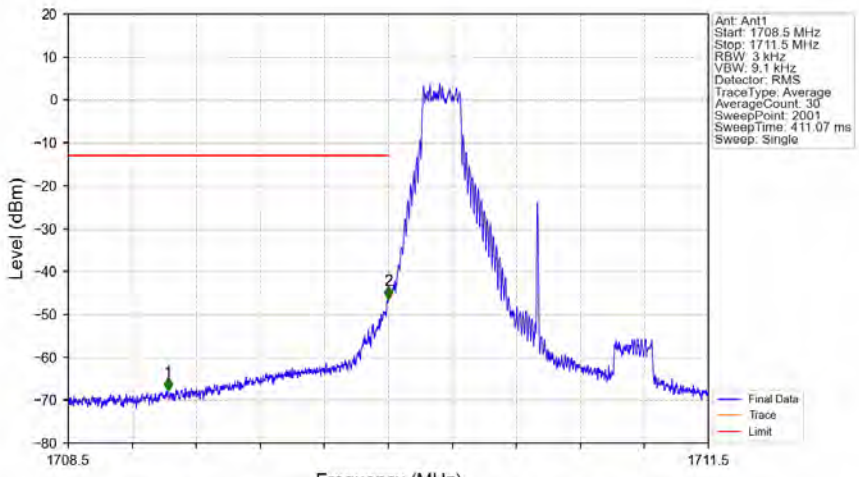
Band4_1.4MHz_256QAM_LCH_1710.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.966	-67.80	-13	Pass
1709	1710	0.003	/	2	1710.000	-46.54	-13	Pass
1710	1711.5	0.003	/	/	/	/	/	/

Band4_1.4MHz_256QAM_LCH_1710.7MHz_RB_1_0_NTNV

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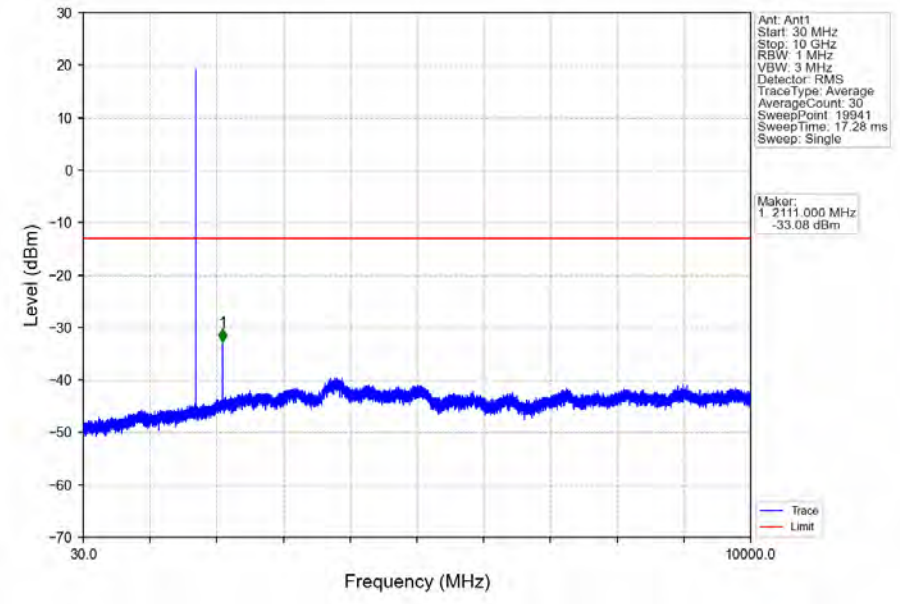

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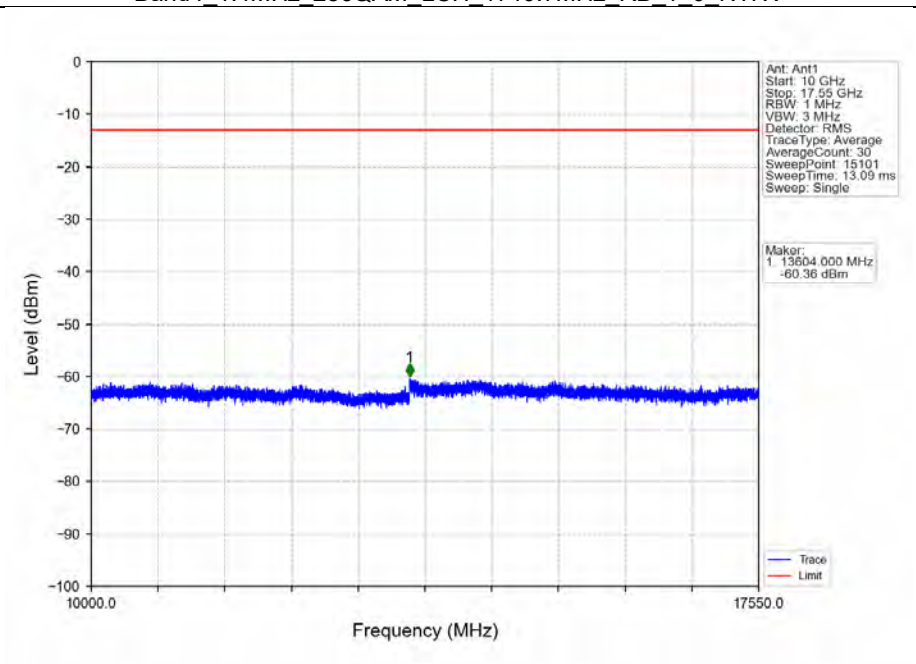

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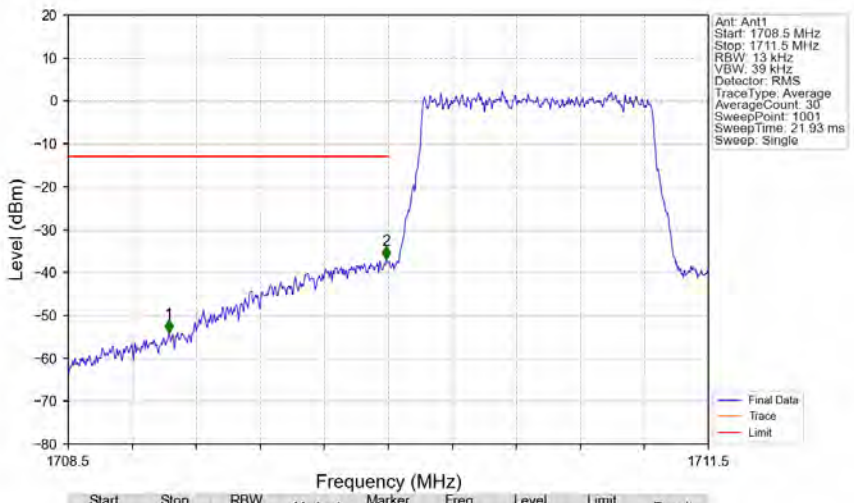

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.971	-54.14	-13	Pass
1709	1710	0.013	/	2	1709.991	-37.02	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

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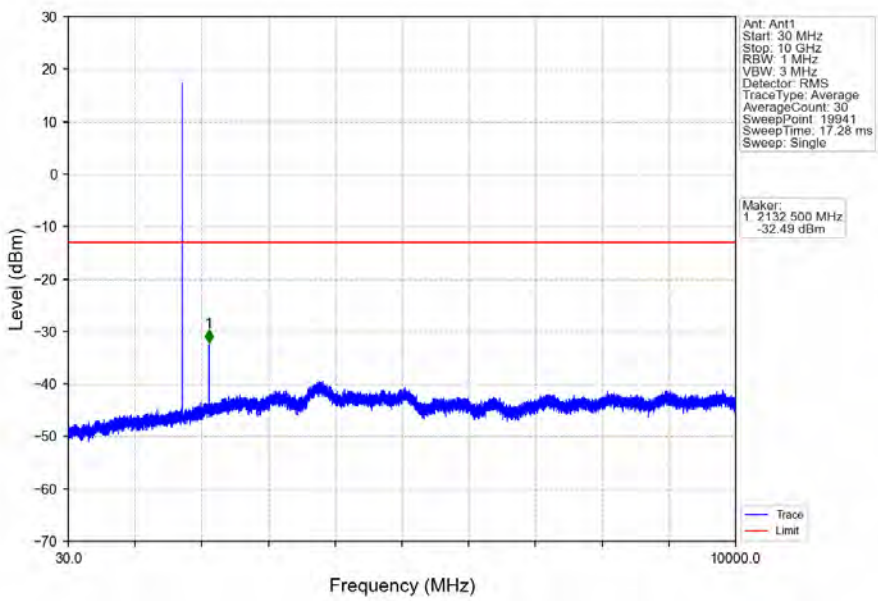

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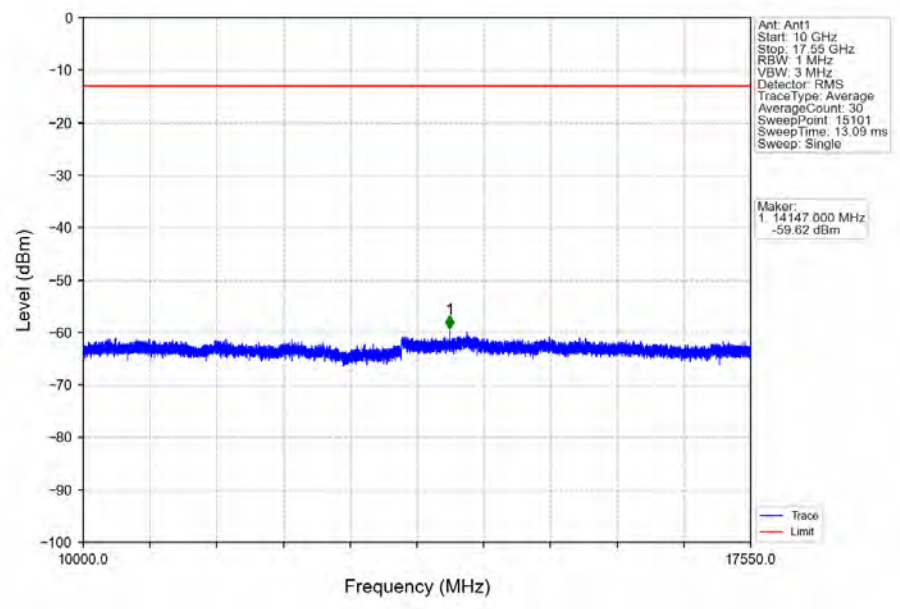

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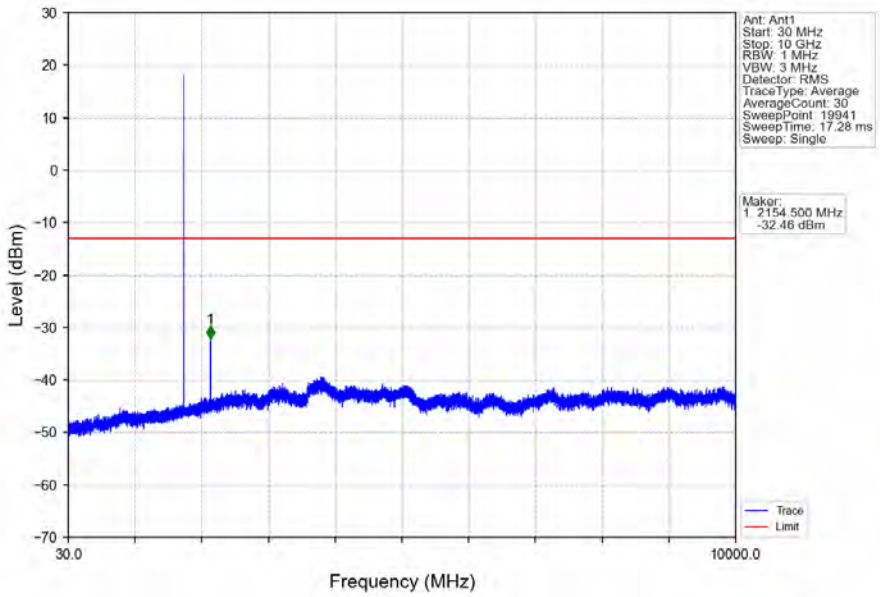
Band4_1.4MHz_256QAM_HCH_1754.3MHz_RB_1_0_NTNV



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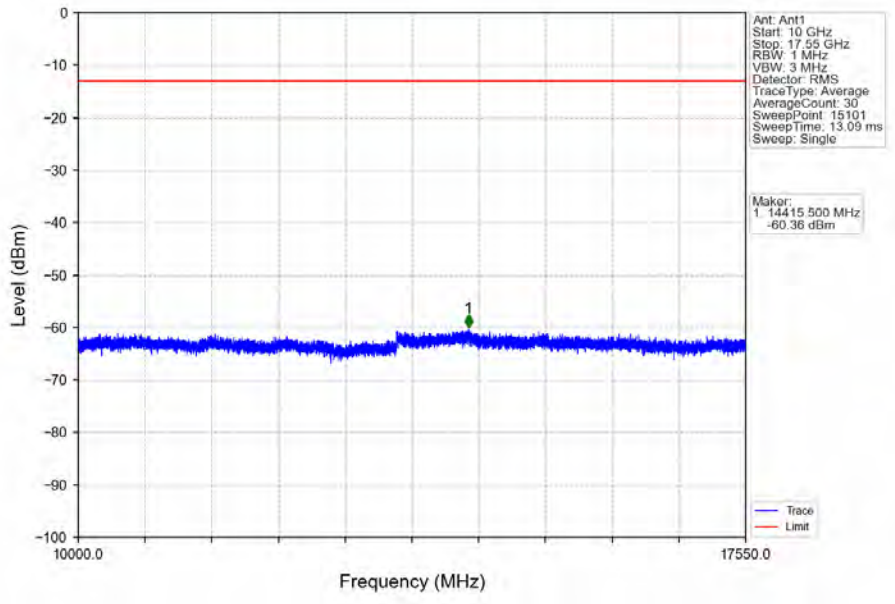

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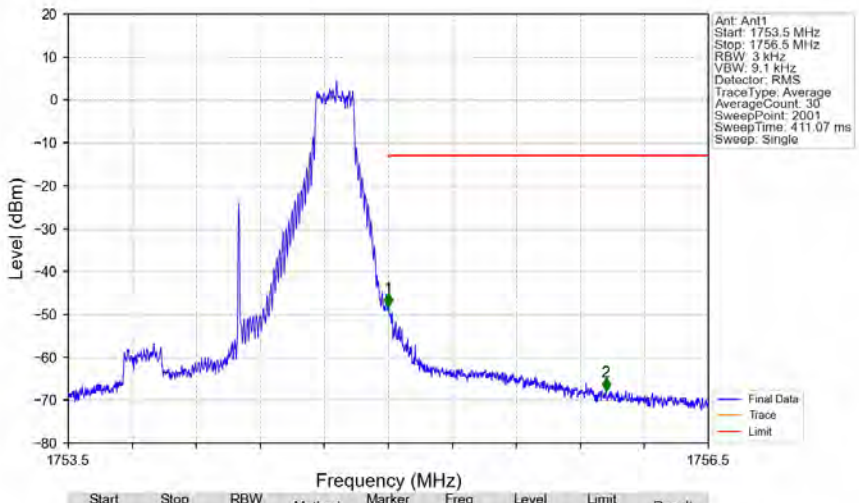

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.000	-48.27	-13	Pass
1756	1756.5	1	/	2	1756.020	-67.79	-13	Pass

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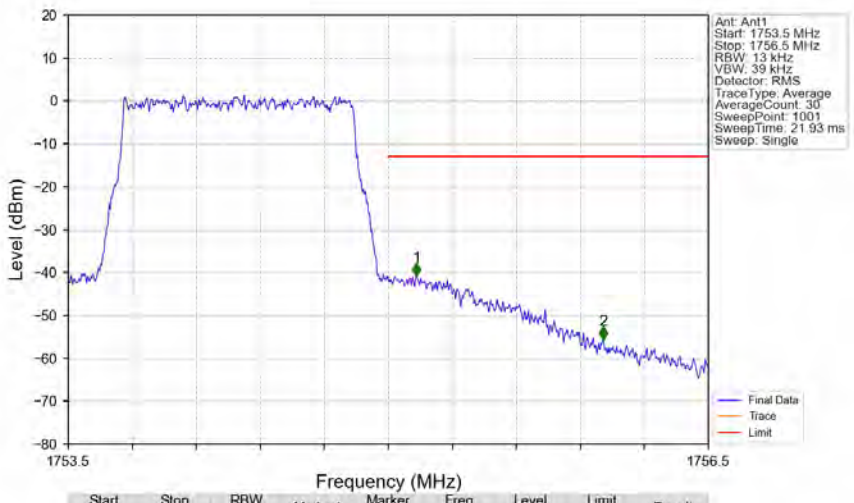

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.013	/	/	/	/	/	/
1755	1756	0.013	/	1	1755.132	-40.92	-13	Pass
1756	1756.5	1	/	2	1756.008	-55.61	-13	Pass

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5.2 B4_3MHz

5.2.1 Test Result

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
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
64QAM	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
256QAM	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

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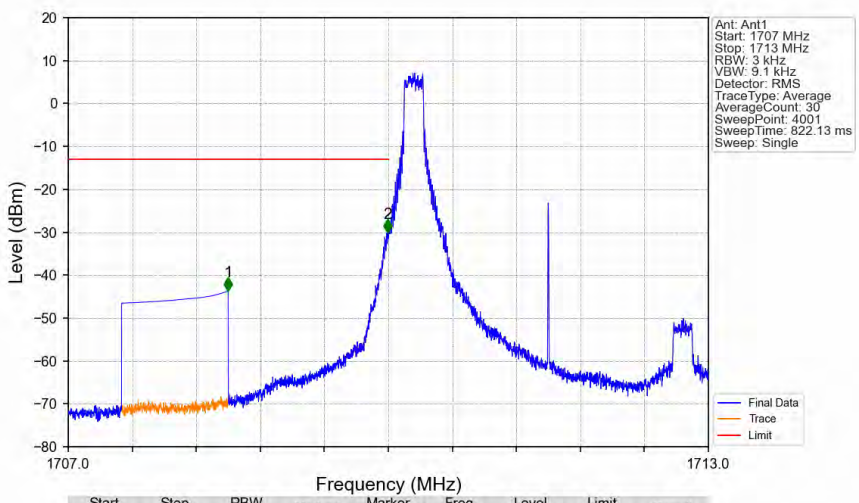
5.2.2 Test Graph

Band4_3MHz_QPSK_LCH_1711.5MHz_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	1708.498	-43.74	-13	Pass
1709	1710	0.003	/	2	1709.995	-30.06	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

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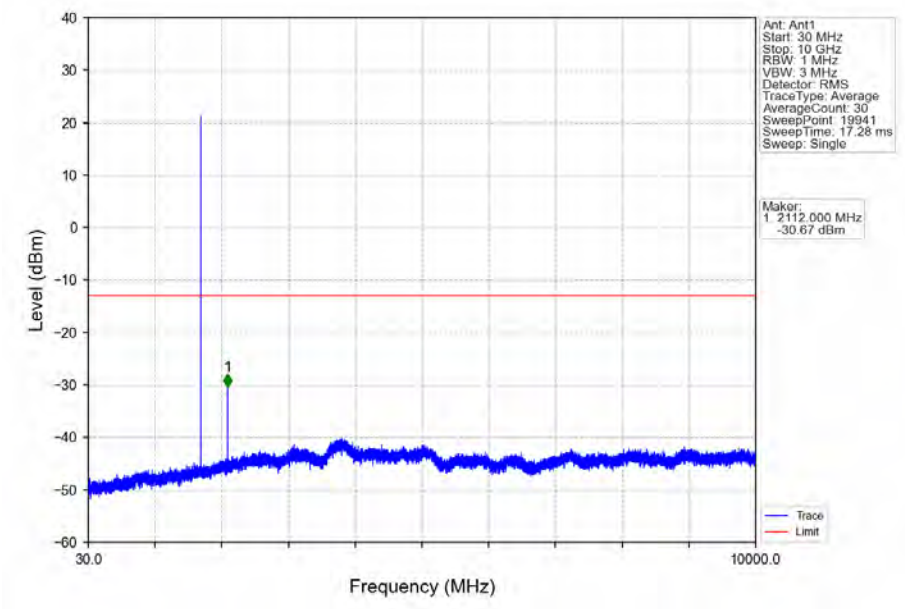

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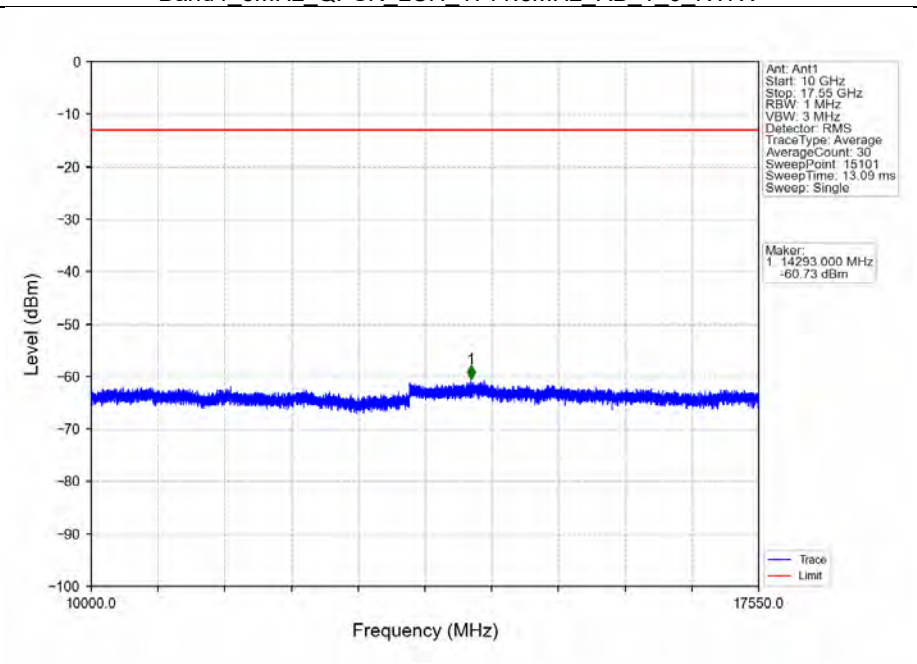

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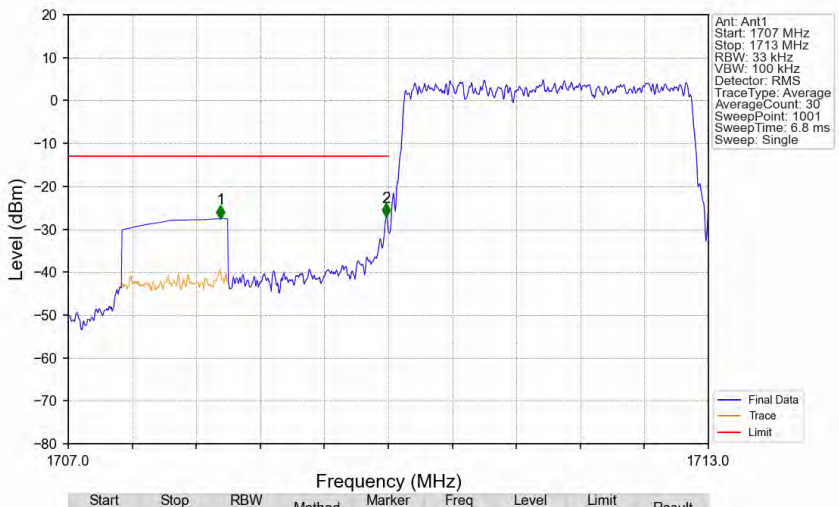

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.428	-27.55	-13	Pass
1709	1710	0.033	/	2	1709.982	-27.15	-13	Pass
1710	1713	0.033	/	/	/	/	/	/

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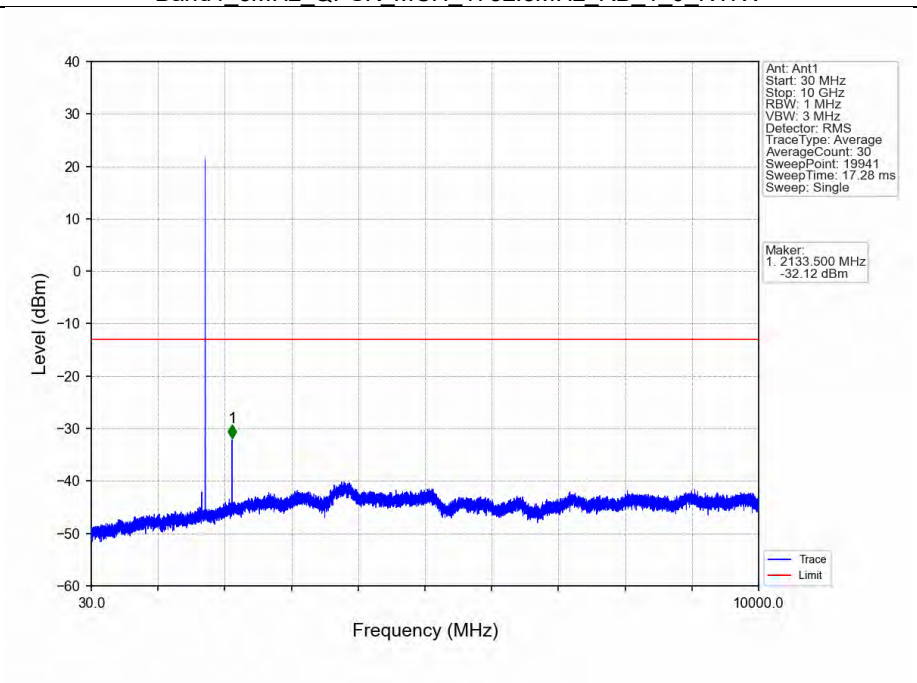

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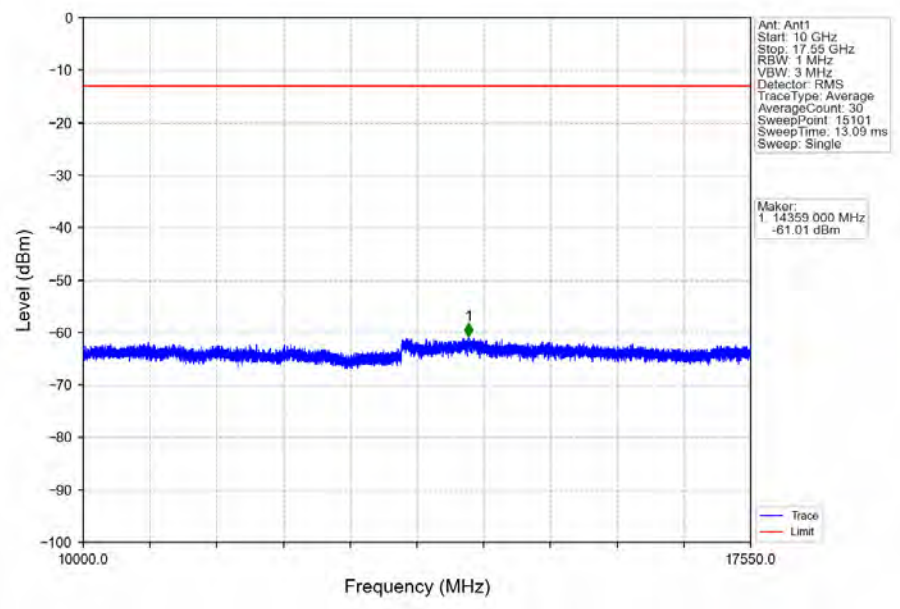

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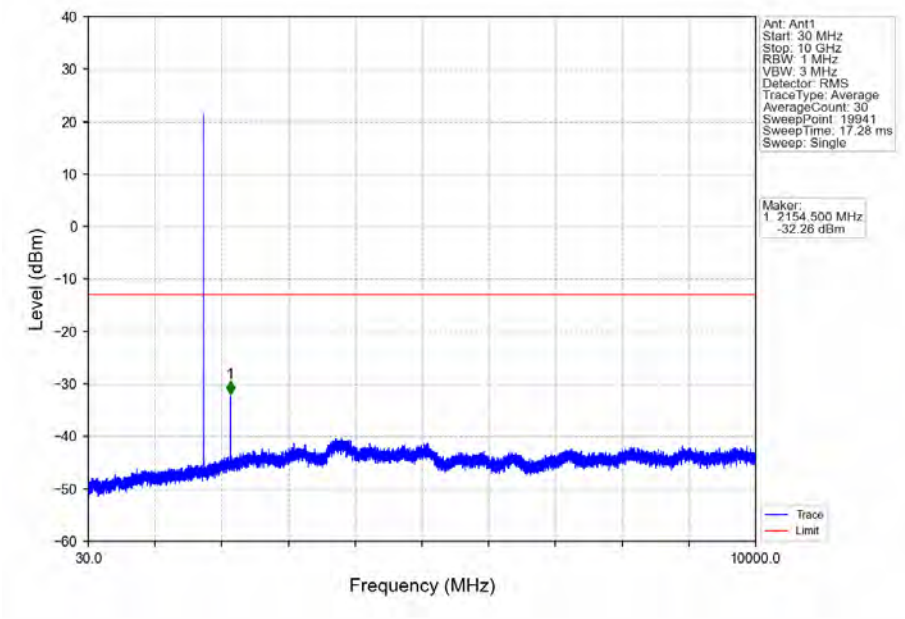

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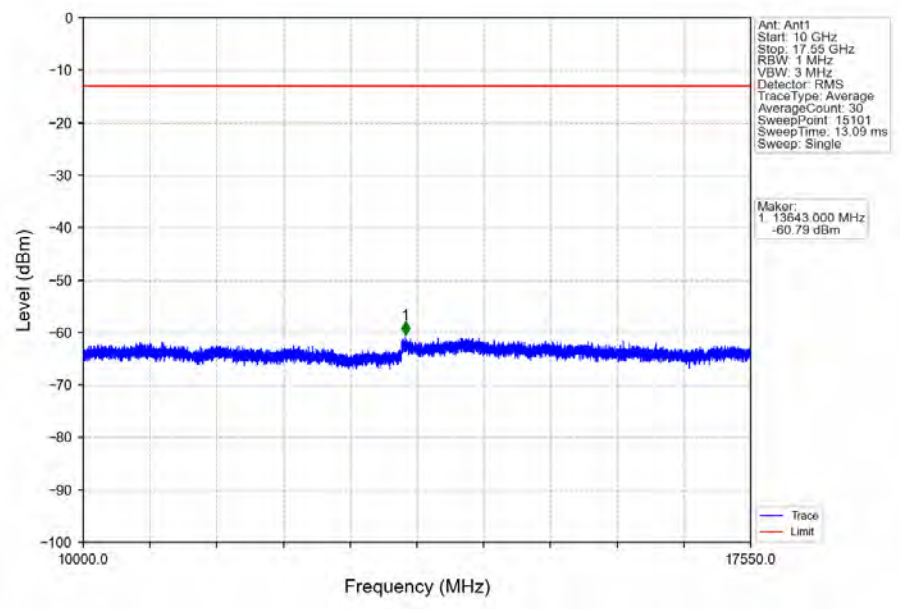

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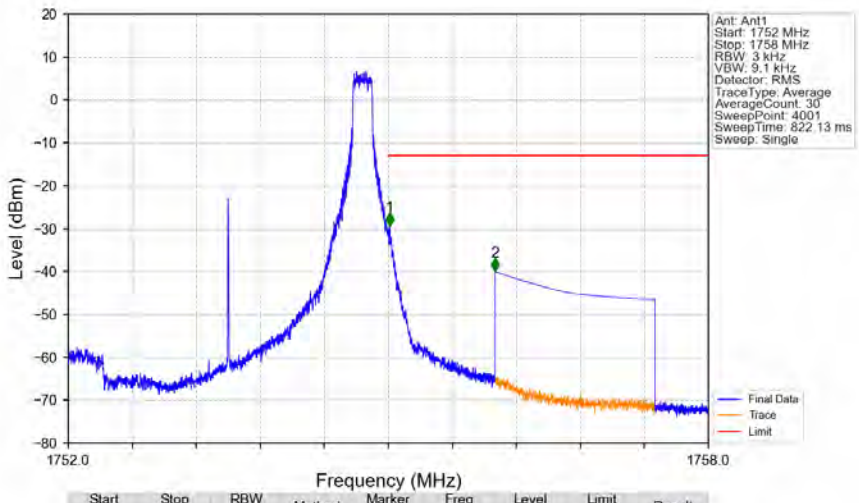
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.012	-29.40	-13	Pass
1756	1758	1	CHP	2	1756.001	-40.02	-13	Pass

Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV

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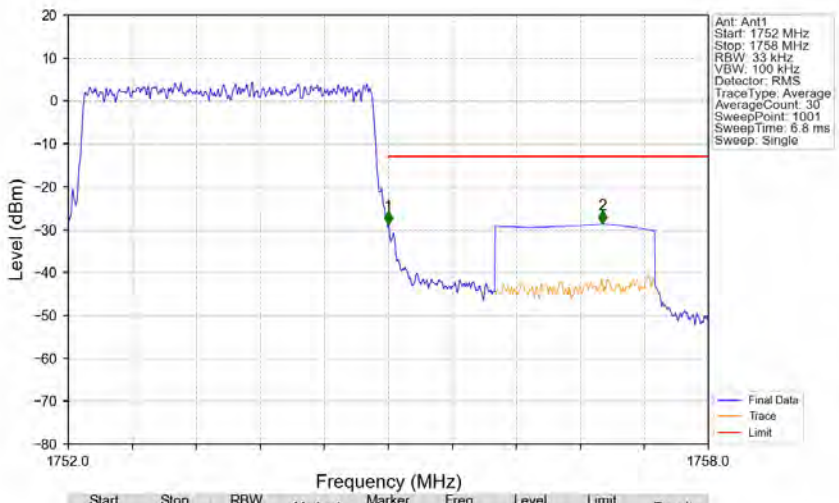

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.033	/	/	/	/	/	/
1755	1756	0.033	/	1	1755.000	-28.87	-13	Pass
1756	1758	1	CHP	2	1757.010	-28.75	-13	Pass

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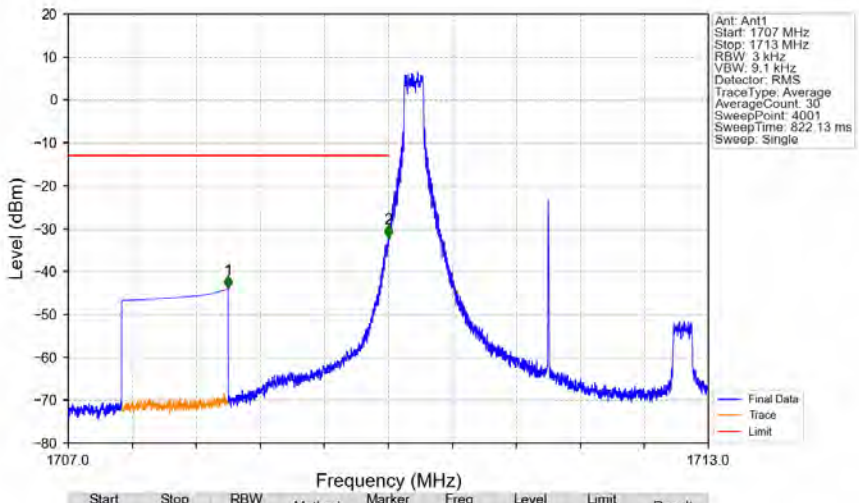
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.498	-44.09	-13	Pass
1709	1710	0.003	/	2	1709.998	-32.20	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

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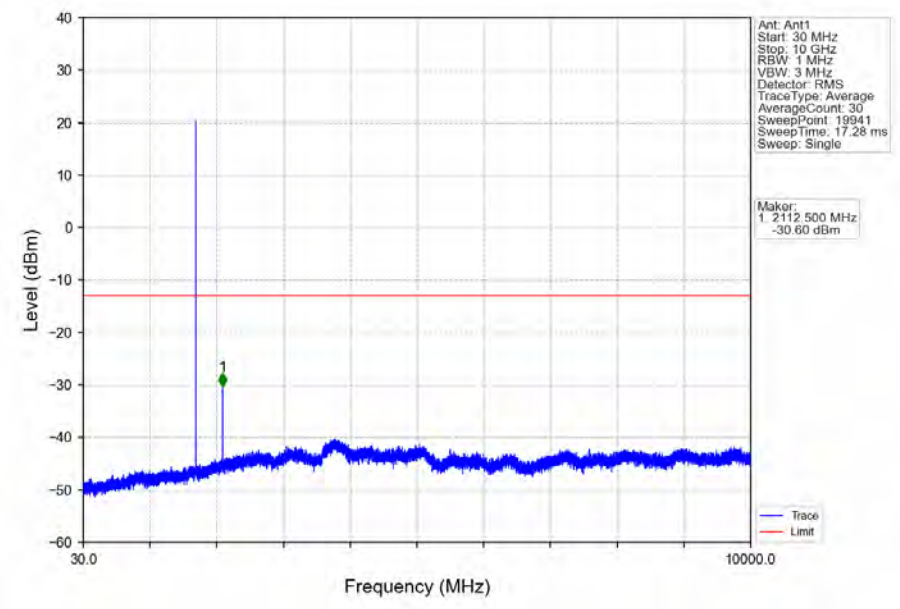

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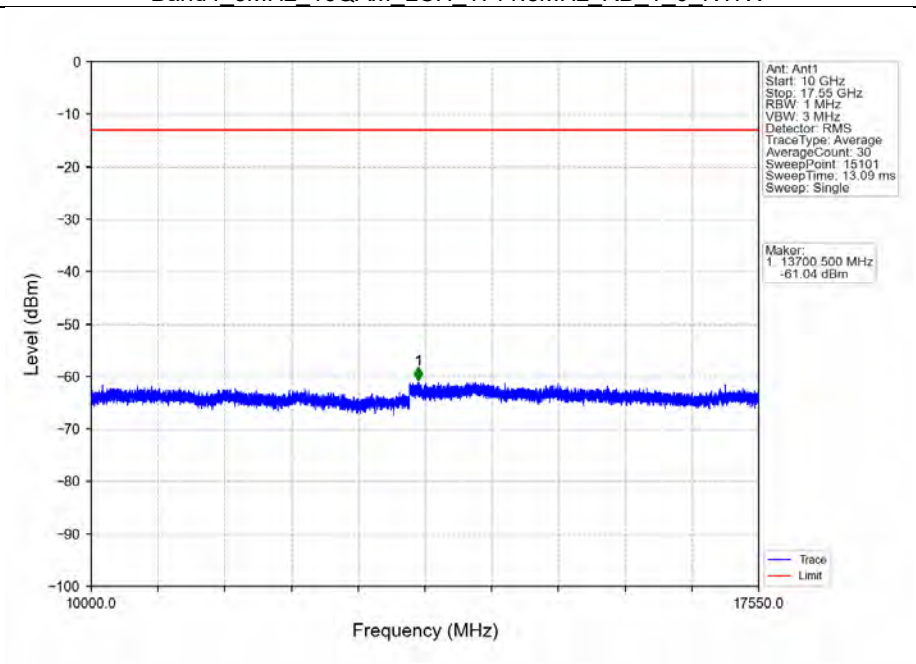
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



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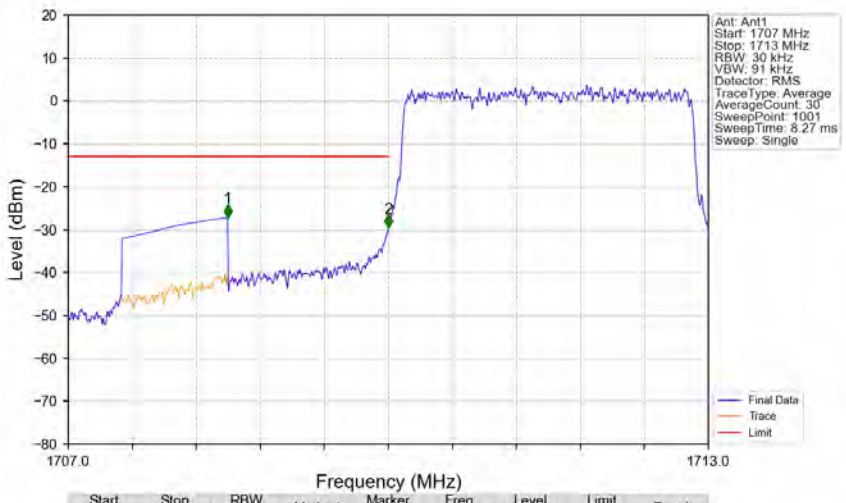

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-27.19	-13	Pass
1709	1710	0.03	/	2	1710.000	-29.57	-13	Pass
1710	1713	0.03	/	/	/	/	/	/

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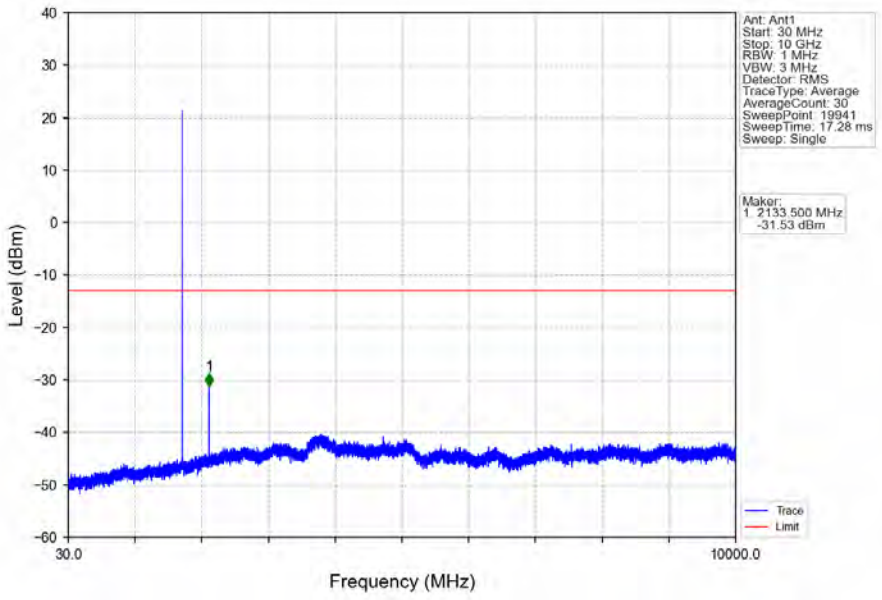

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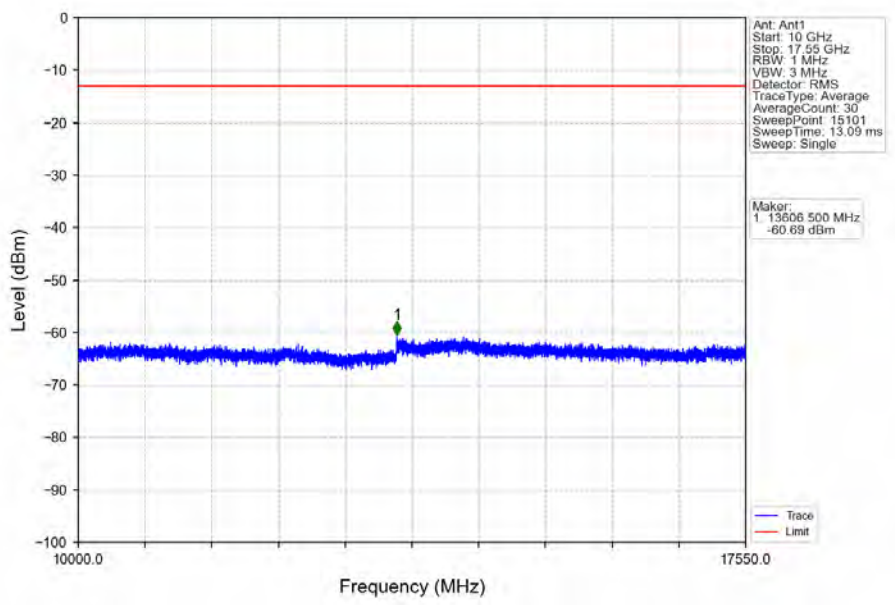

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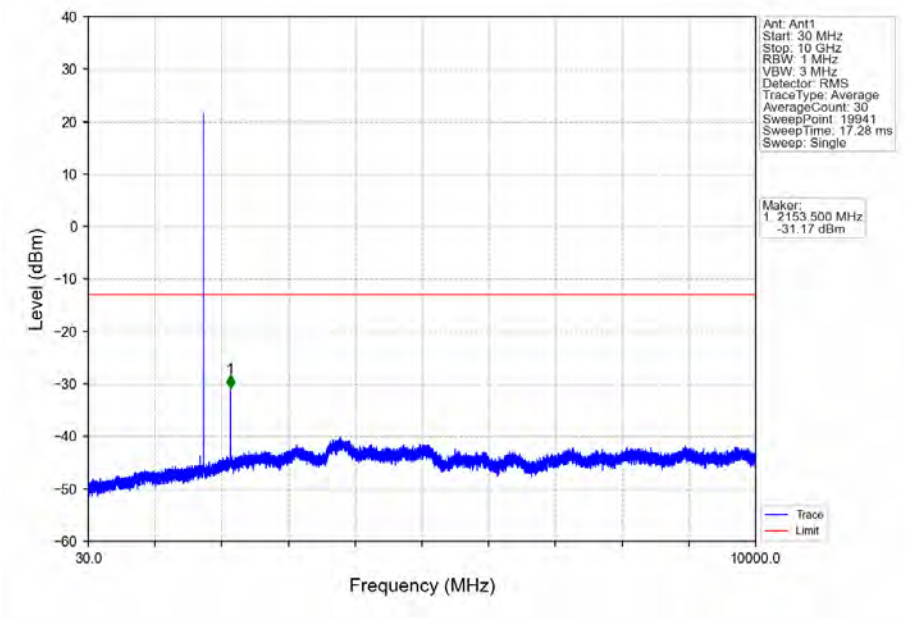

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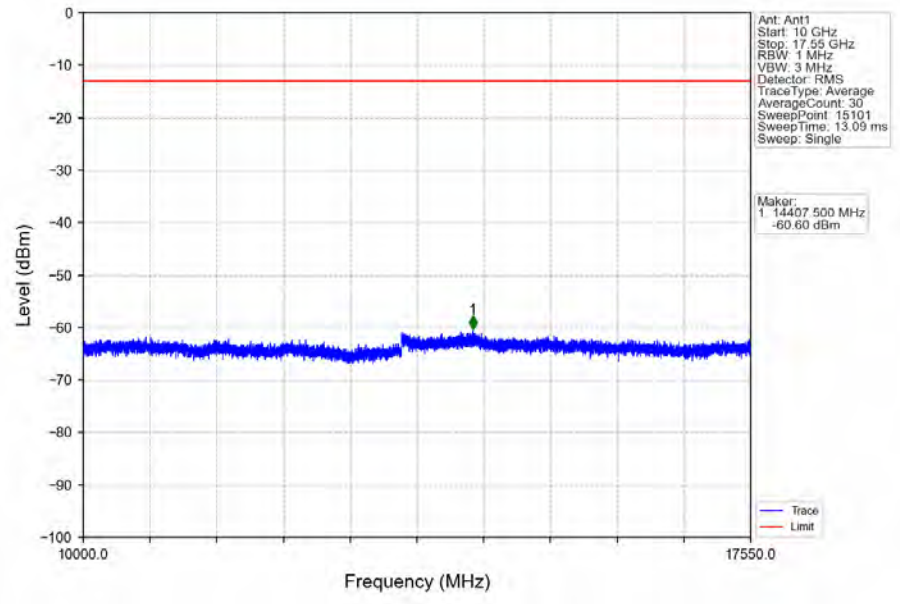

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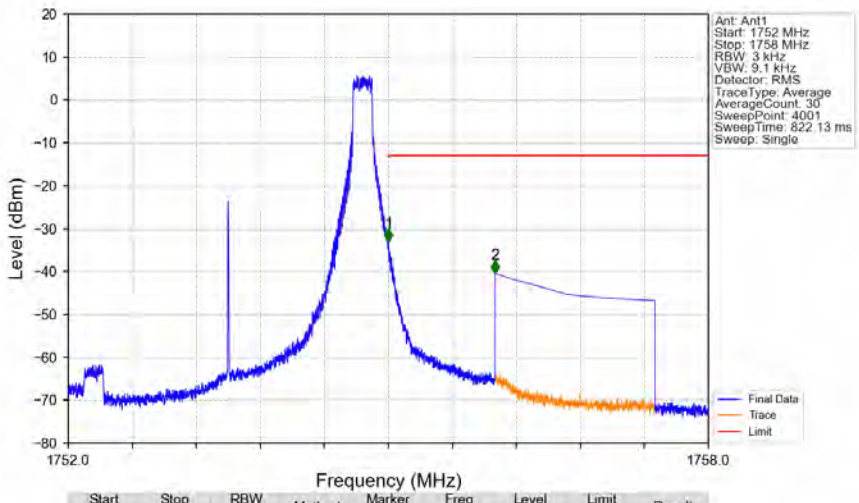

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.003	-33.12	-13	Pass
1756	1758	1	CHP	2	1756.001	-40.50	-13	Pass

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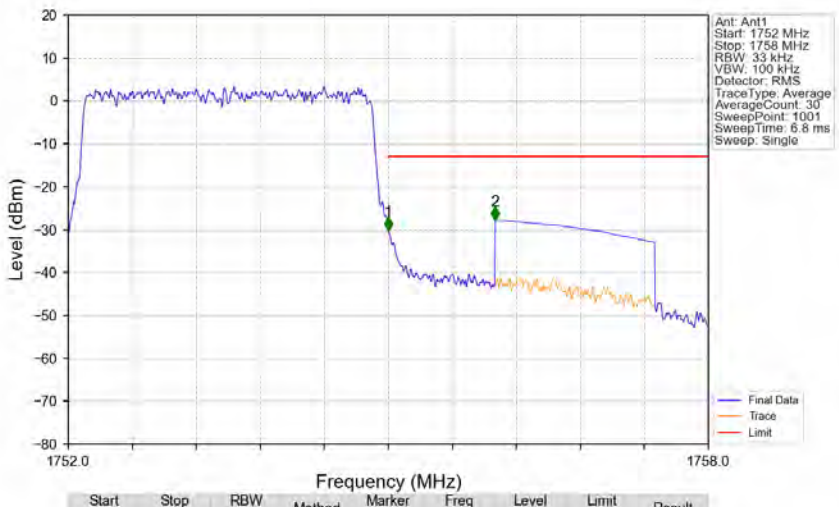

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.033	/	/	/	/	/	/
1755	1756	0.033	/	1	1755.000	-30.28	-13	Pass
1756	1758	1	CHP	2	1756.002	-27.80	-13	Pass

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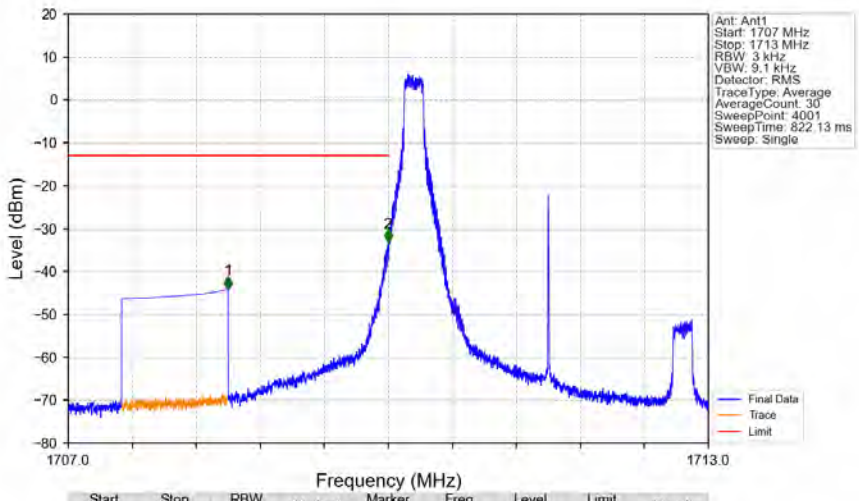
Band4_3MHz_64QAM_LCH_1711.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.498	-44.12	-13	Pass
1709	1710	0.003	/	2	1709.997	-33.21	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

Band4_3MHz_64QAM_LCH_1711.5MHz_RB_1_0_NTNV

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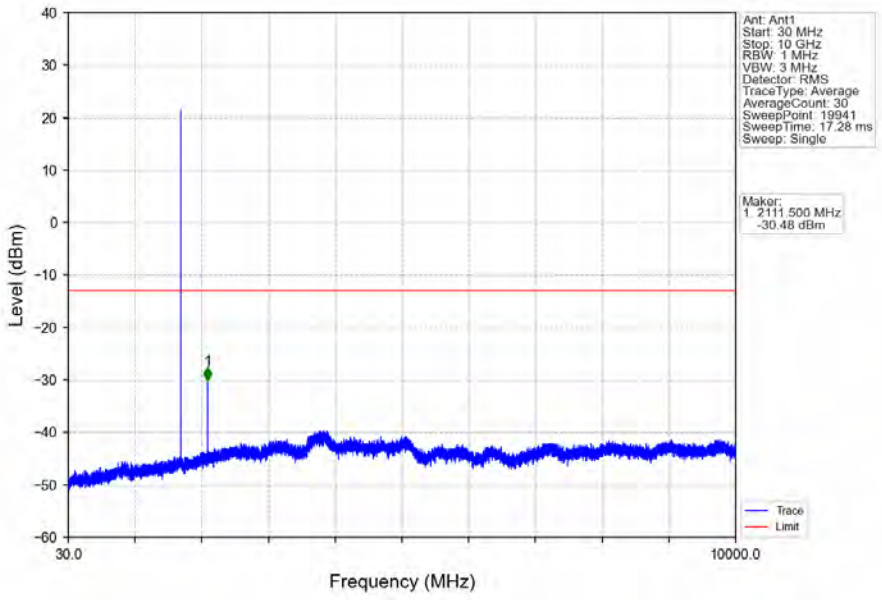

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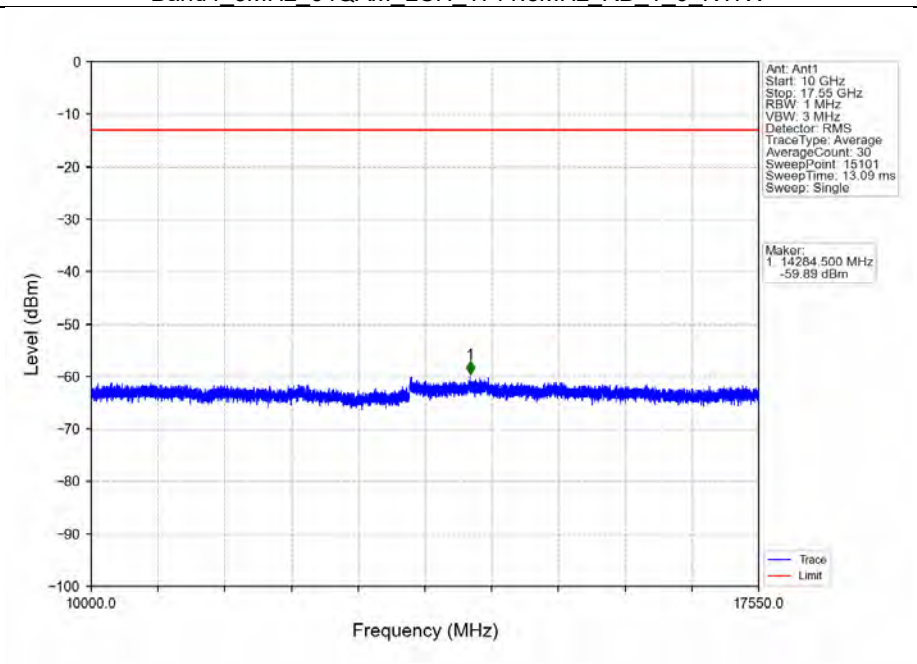
Band4_3MHz_64QAM_LCH_1711.5MHz_RB_1_0_NTNV



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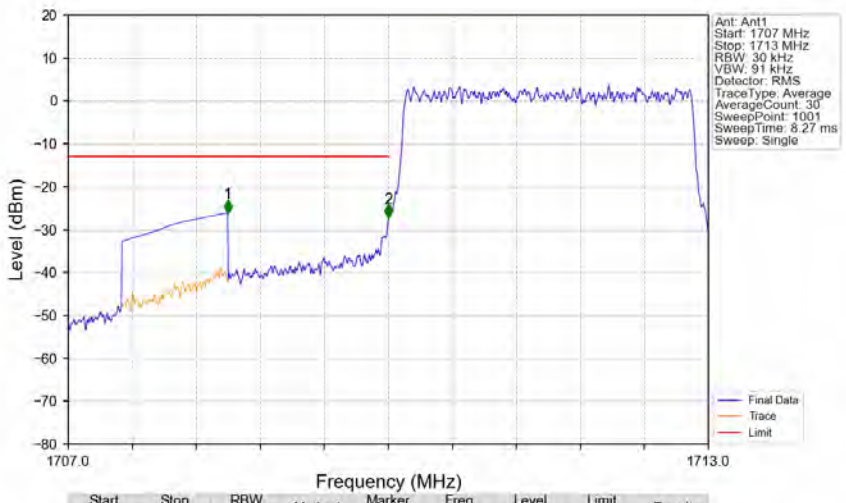

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-26.14	-13	Pass
1709	1710	0.03	/	2	1710.000	-27.32	-13	Pass
1710	1713	0.03	/	/	/	/	/	/

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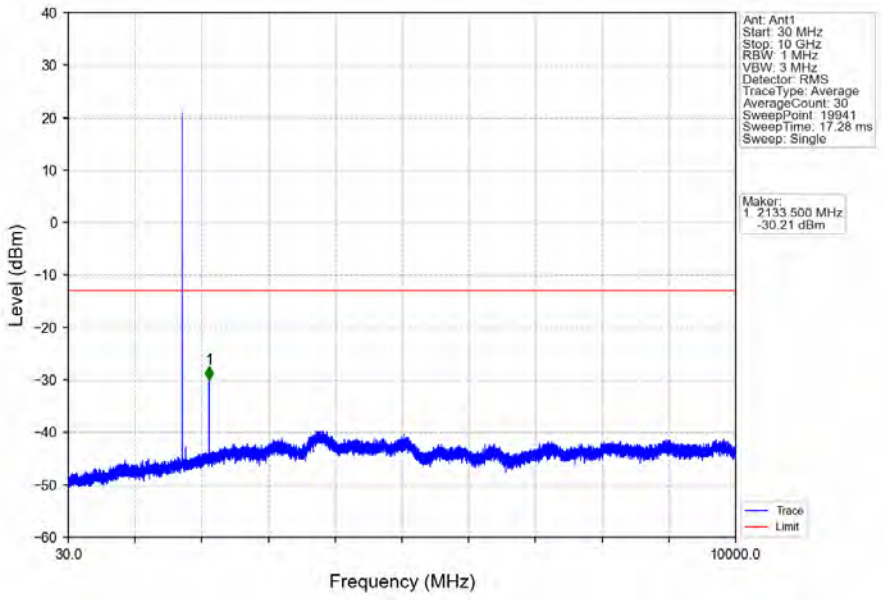

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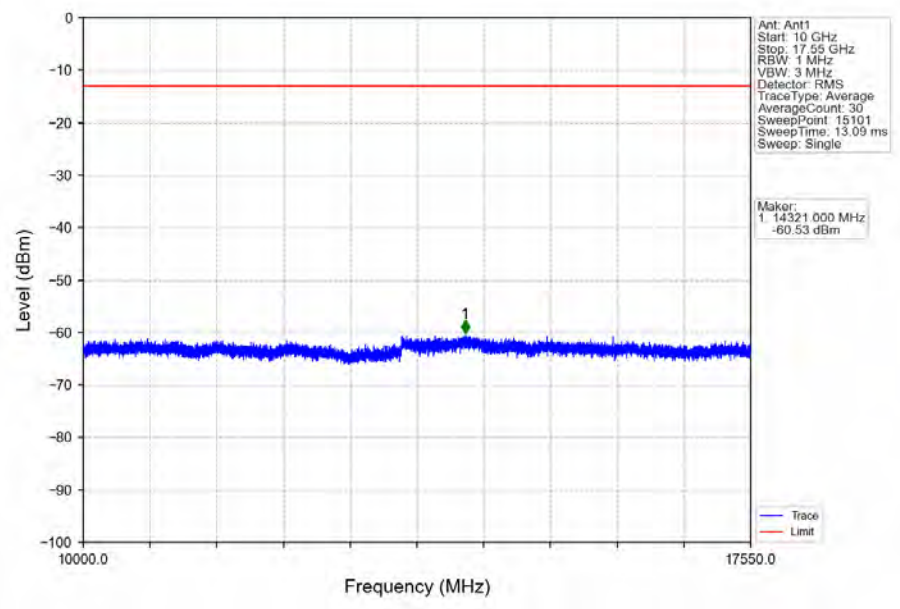

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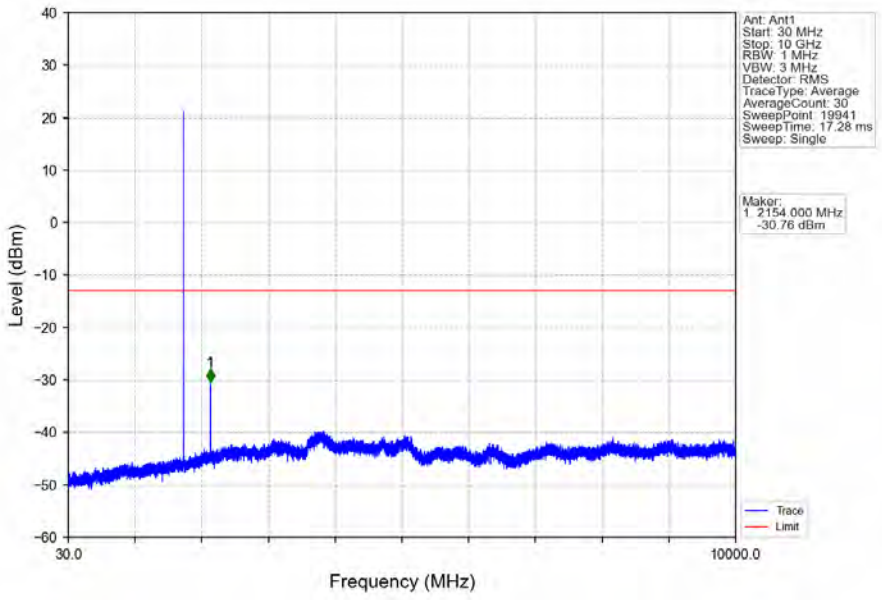

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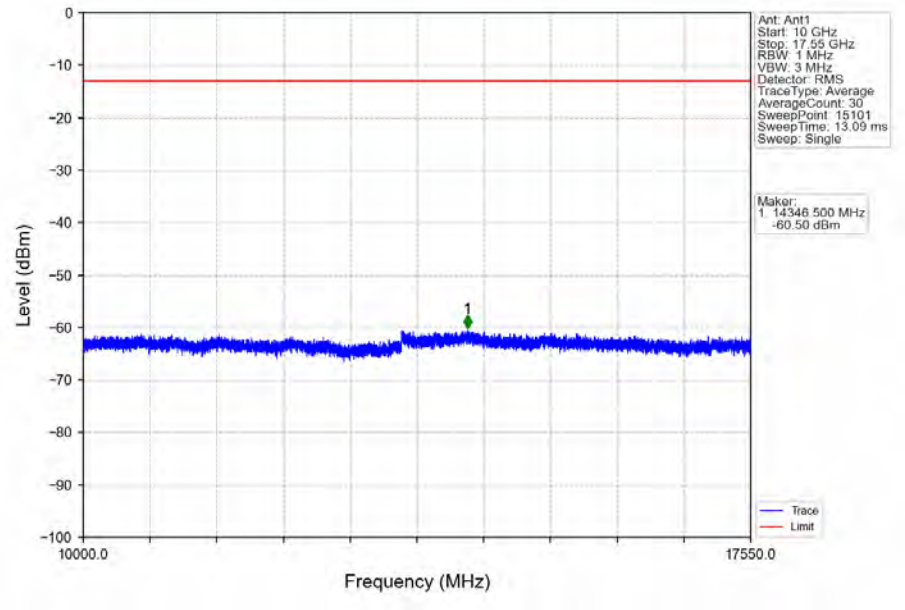

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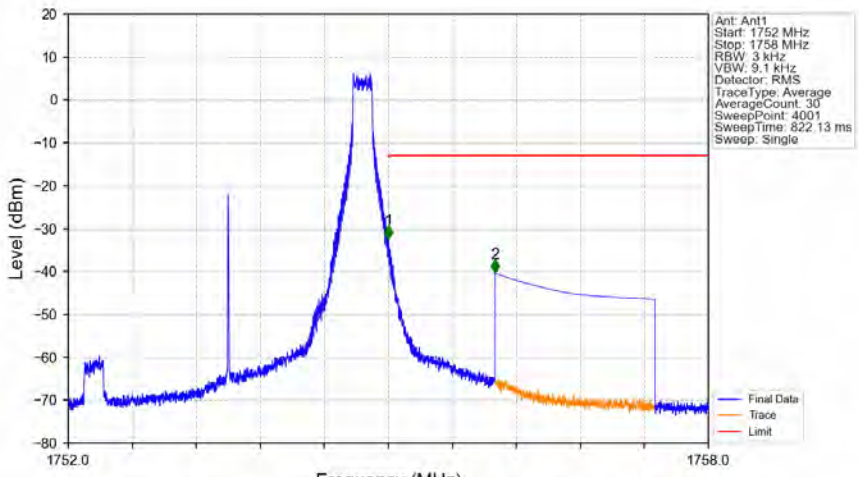

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-32.37	-13	Pass
1756	1758	1	CHP	2	1756.001	-40.39	-13	Pass

Band4_3MHz_64QAM_HCH_1753.5MHz_RB_15_0_NTNV

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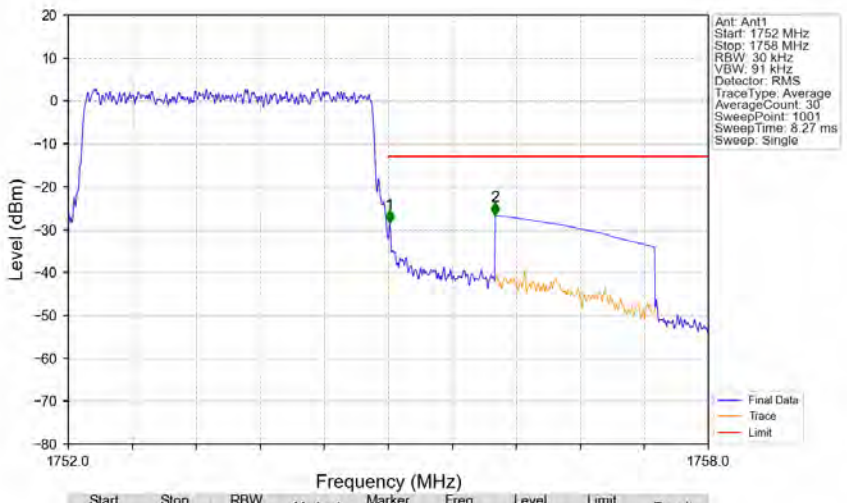

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.03	/	/	/	/	/	/
1755	1756	0.03	/	1	1755.012	-28.55	-13	Pass
1756	1758	1	CHP	2	1756.002	-26.78	-13	Pass

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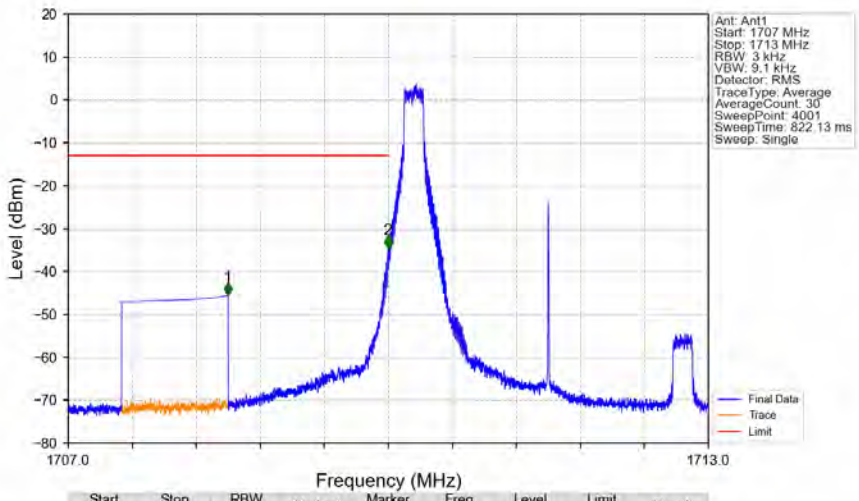
Band4_3MHz_256QAM_LCH_1711.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.495	-45.63	-13	Pass
1709	1710	0.003	/	2	1709.997	-34.72	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

Band4_3MHz_256QAM_LCH_1711.5MHz_RB_1_0_NTNV

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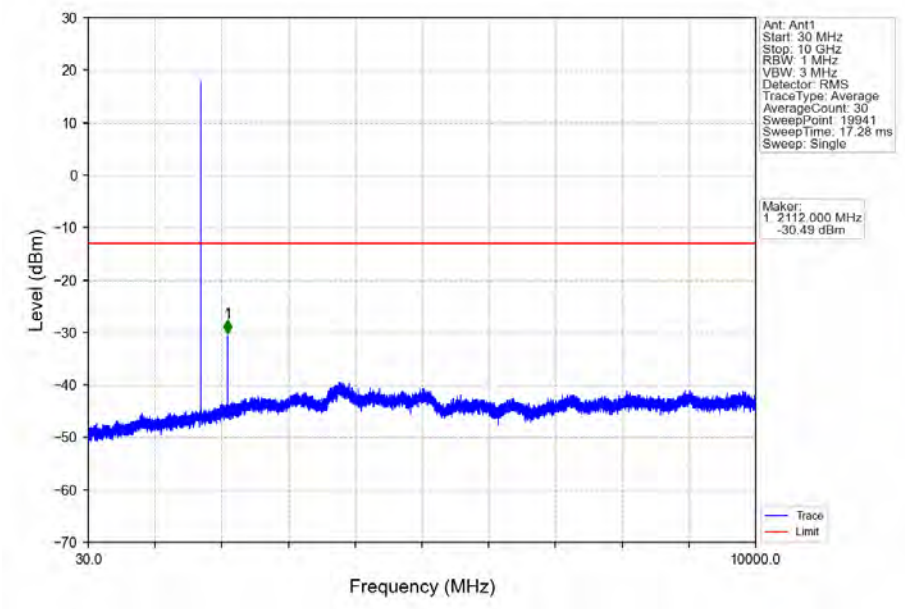

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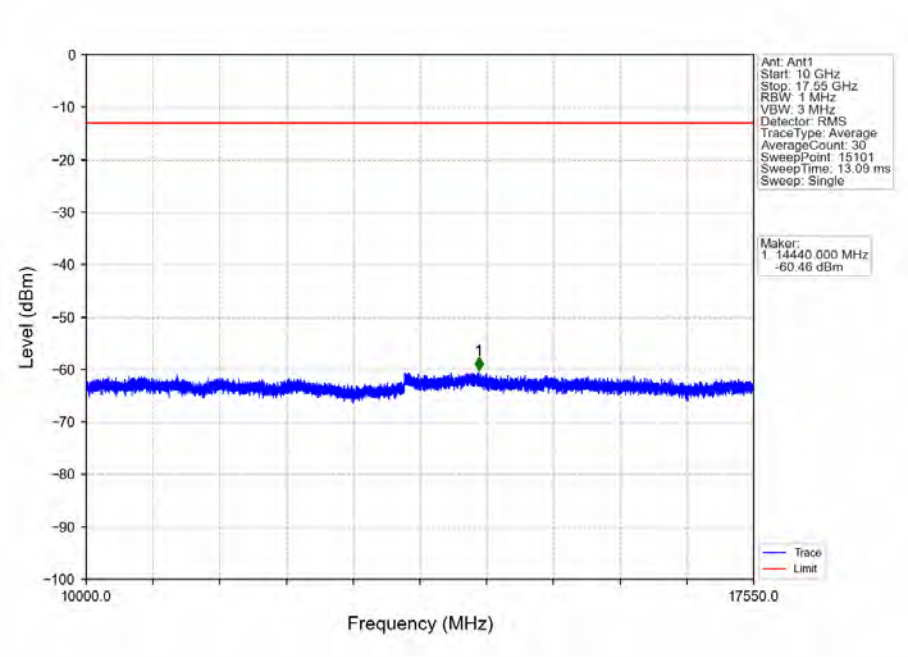
Band4_3MHz_256QAM_LCH_1711.5MHz_RB_1_0_NTNV



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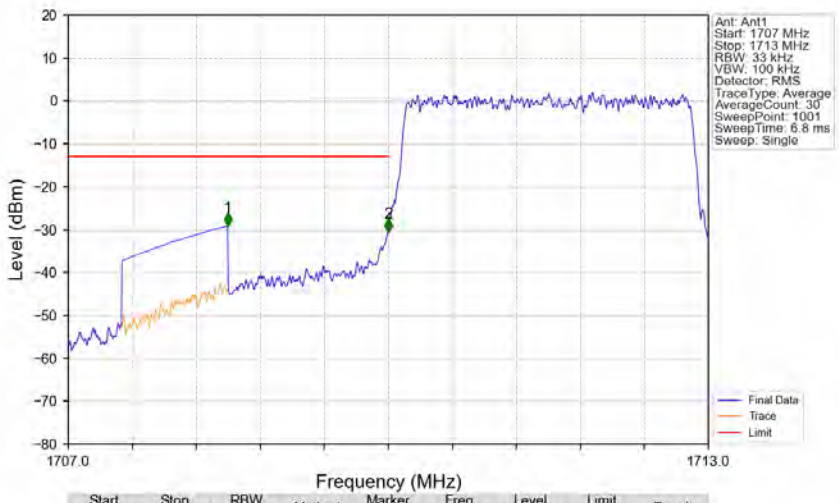

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-29.25	-13	Pass
1709	1710	0.033	/	2	1710.000	-30.61	-13	Pass
1710	1713	0.033	/	/	/	/	/	/

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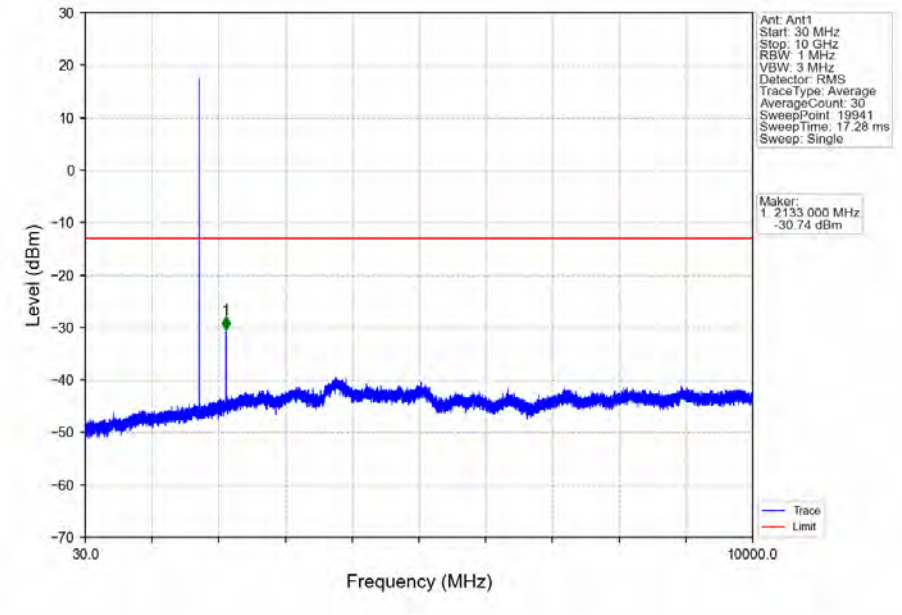
Band4_3MHz_256QAM_MCH_1732.5MHz_RB_1_0_NTNV



Band4_3MHz_256QAM_MCH_1732.5MHz_RB_1_0_NTNV

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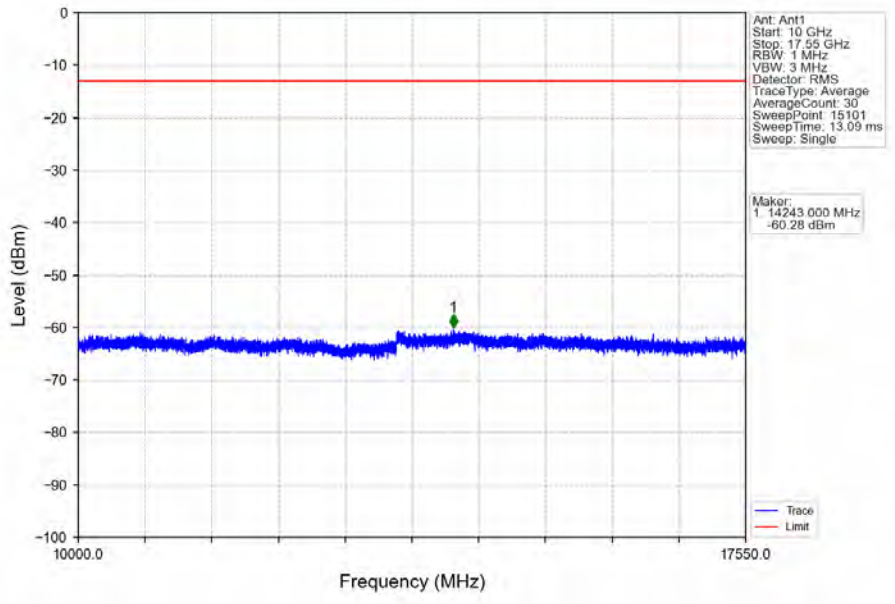

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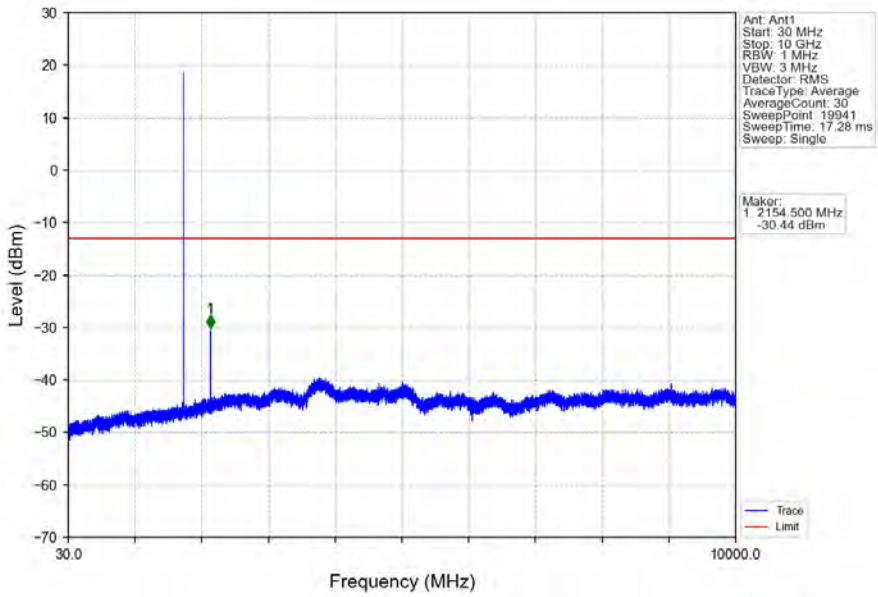

Band4_3MHz_256QAM_HCH_1753.5MHz_RB_1_0_NTNV

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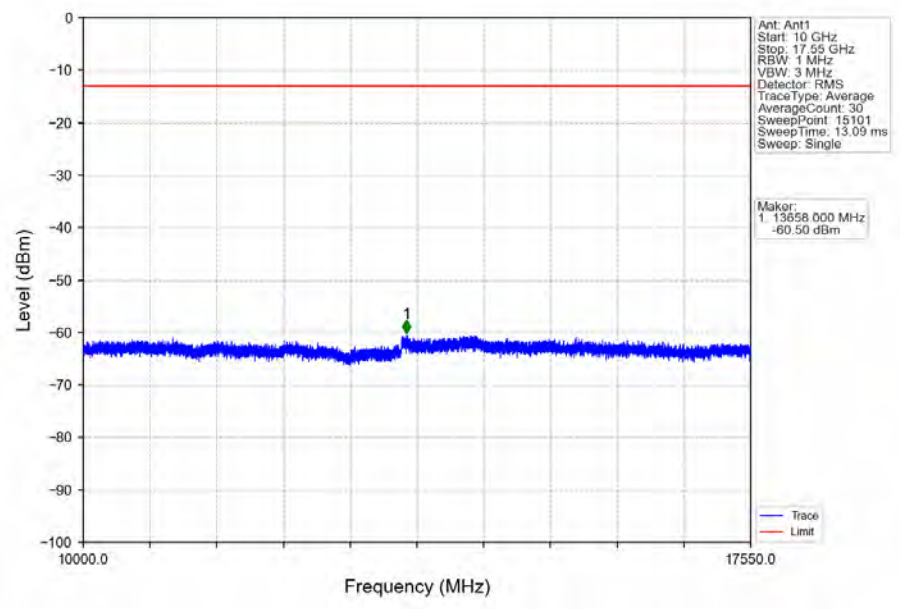

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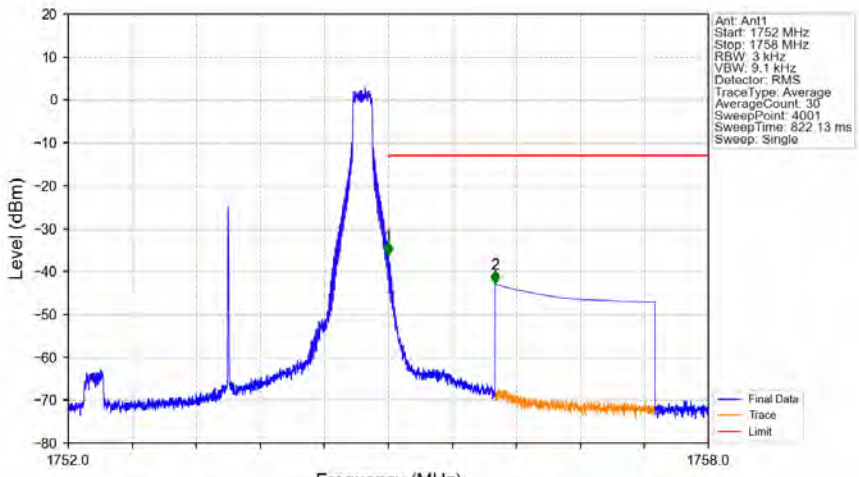

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.000	-36.18	-13	Pass
1756	1758	1	CHP	2	1756.001	-42.86	-13	Pass

Band4_3MHz_256QAM_HCH_1753.5MHz_RB_15_0_NTNV

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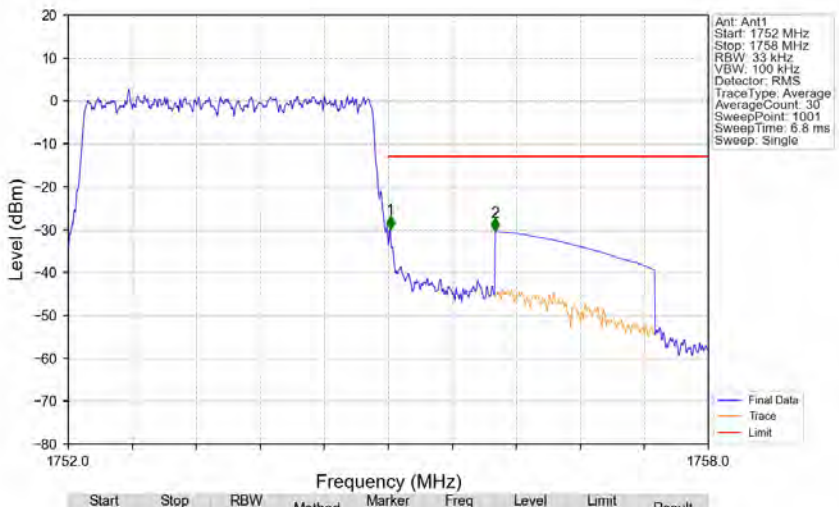

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.033	/	/	/	/	/	/
1755	1756	0.033	/	1	1755.018	-29.85	-13	Pass
1756	1758	1	CHP	2	1756.002	-30.48	-13	Pass

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5.3 B4_5MHz

5.3.1 Test Result

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
			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
64QAM	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
256QAM	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

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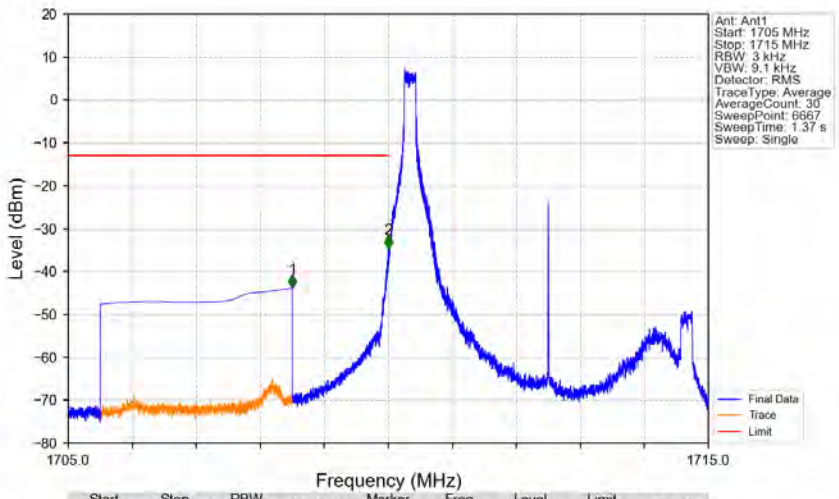
5.3.2 Test Graph

Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.500	-43.80	-13	Pass
1709	1710	0.003	/	2	1710.000	-34.70	-13	Pass
1710	1715	0.003	/	/	/	/	/	/

Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV

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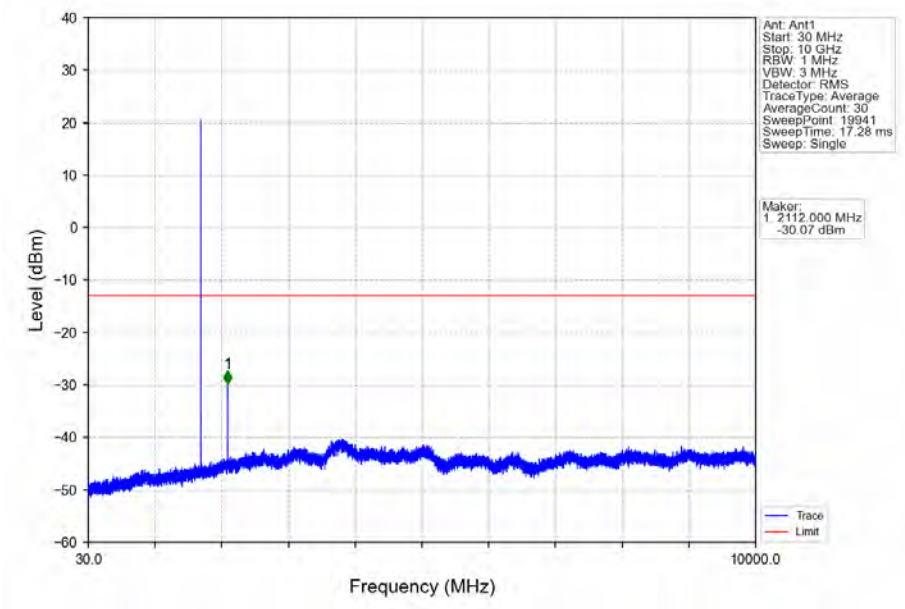

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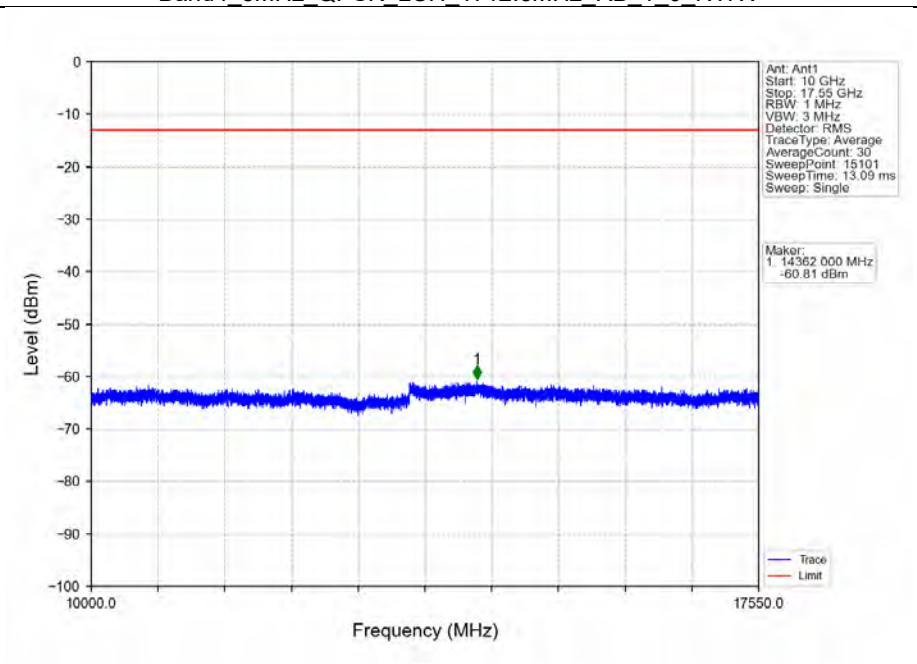

Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV

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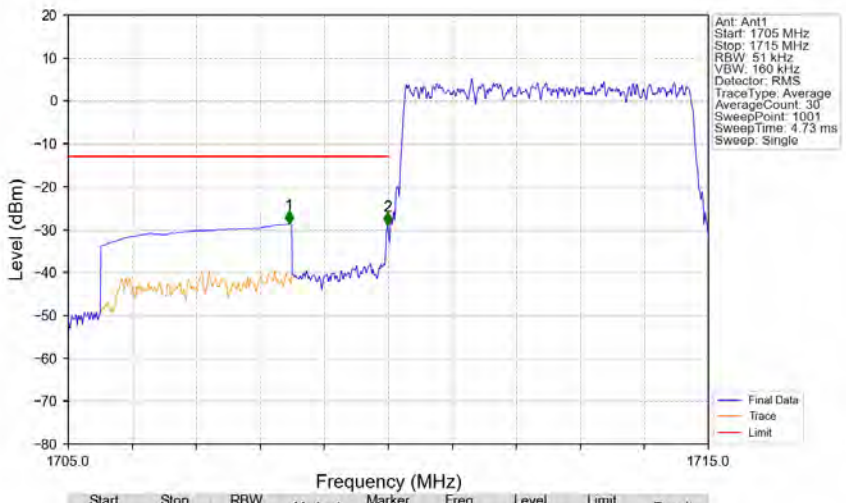

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.450	-28.75	-13	Pass
1709	1710	0.051	/	2	1709.990	-29.09	-13	Pass
1710	1715	0.051	/	/	/	/	/	/

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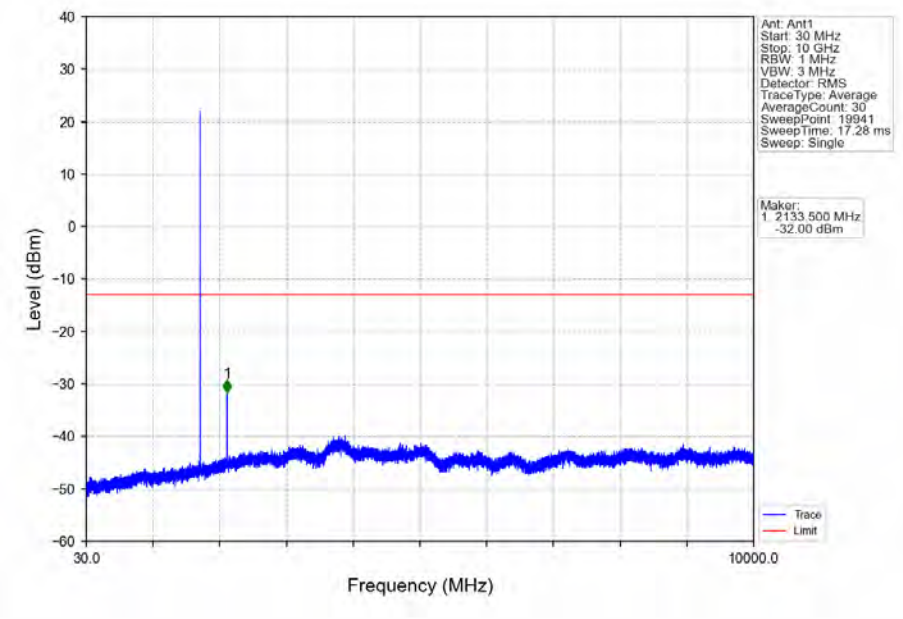

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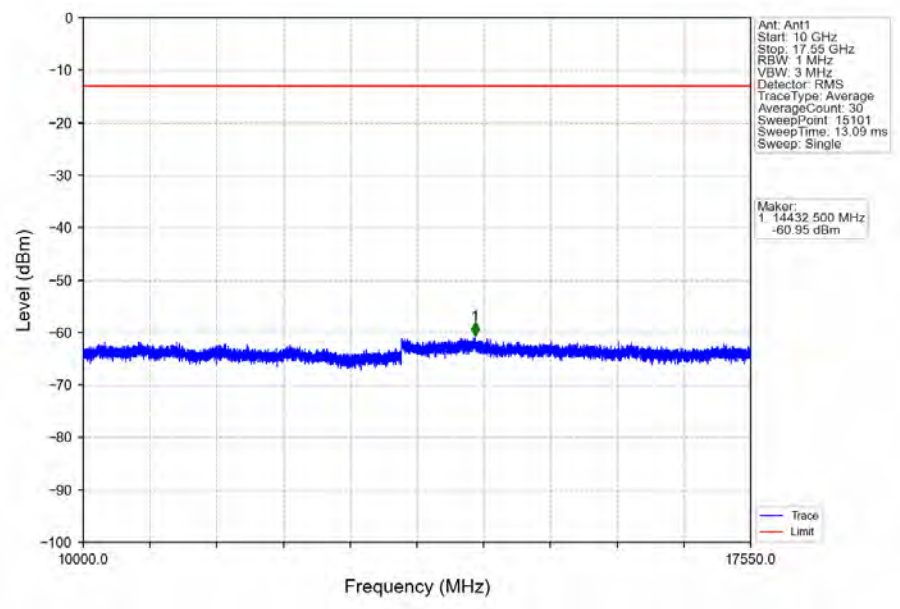

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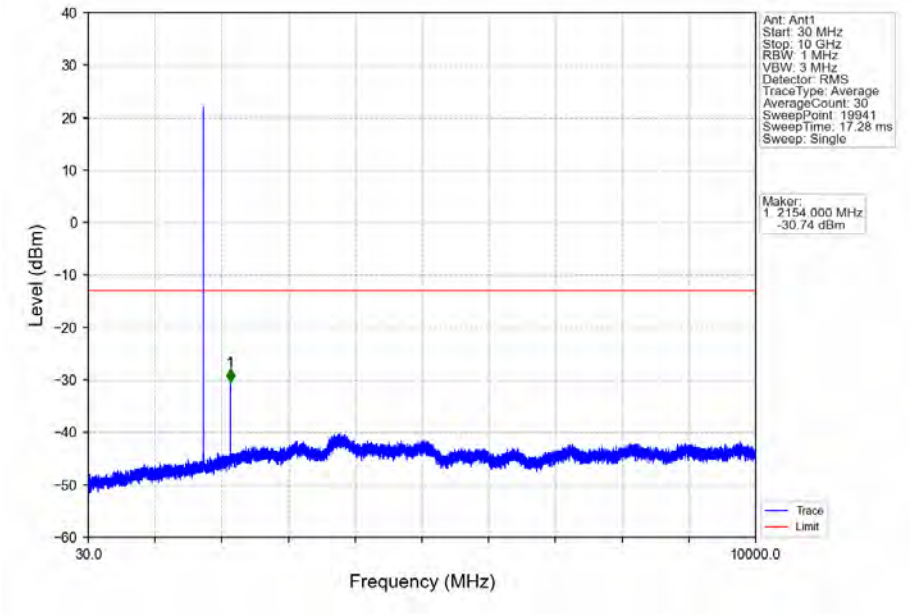

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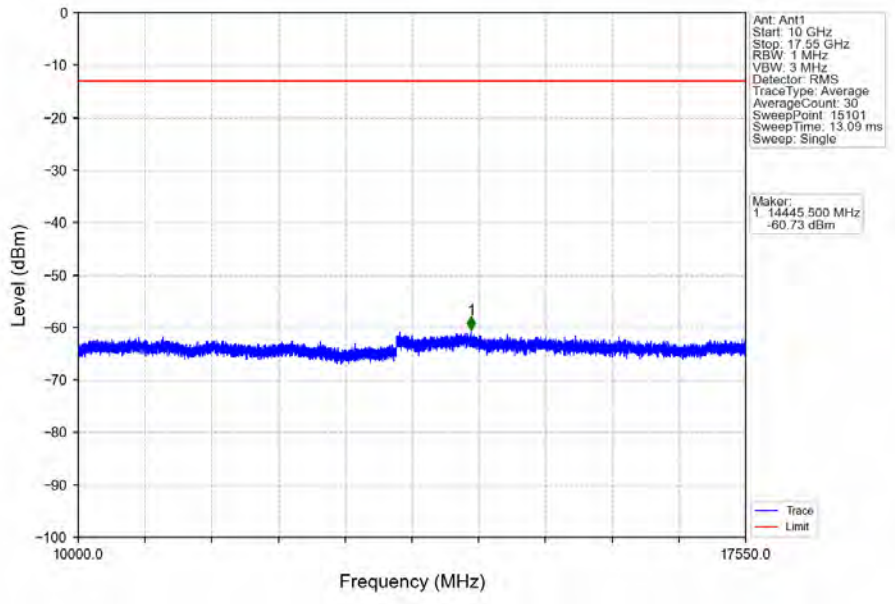

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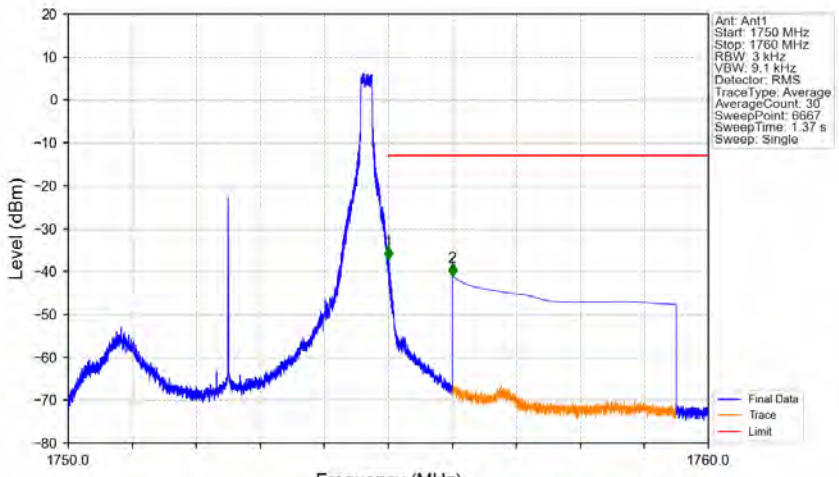

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.000	-37.30	-13	Pass
1756	1760	1	CHP	2	1756.001	-41.16	-13	Pass

Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

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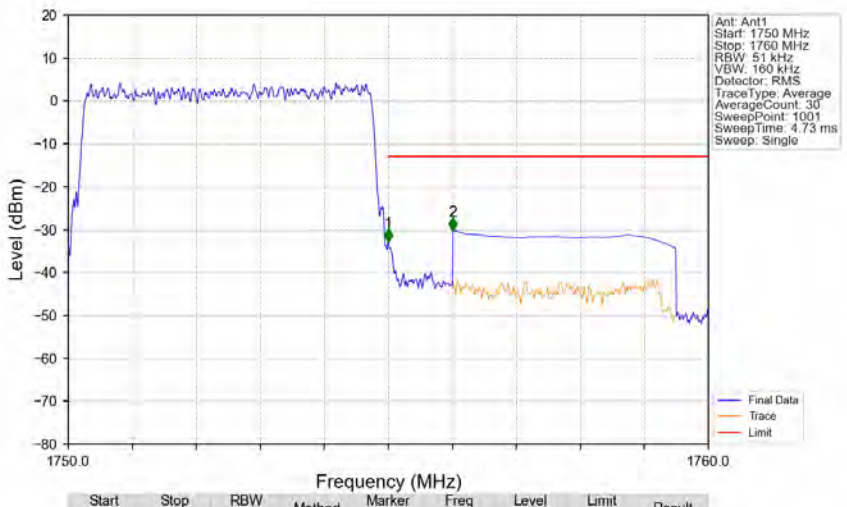

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.051	/	/	/	/	/	/
1755	1756	0.051	/	1	1755.000	-32.91	-13	Pass
1756	1760	1	CHP	2	1756.010	-30.25	-13	Pass

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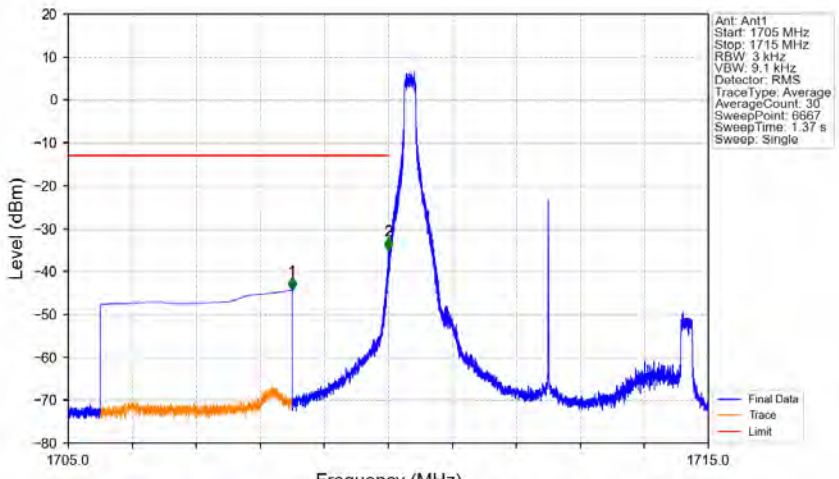

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.498	-44.36	-13	Pass
1709	1710	0.003	/	2	1710.000	-35.13	-13	Pass
1710	1715	0.003	/	/	/	/	/	/

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV

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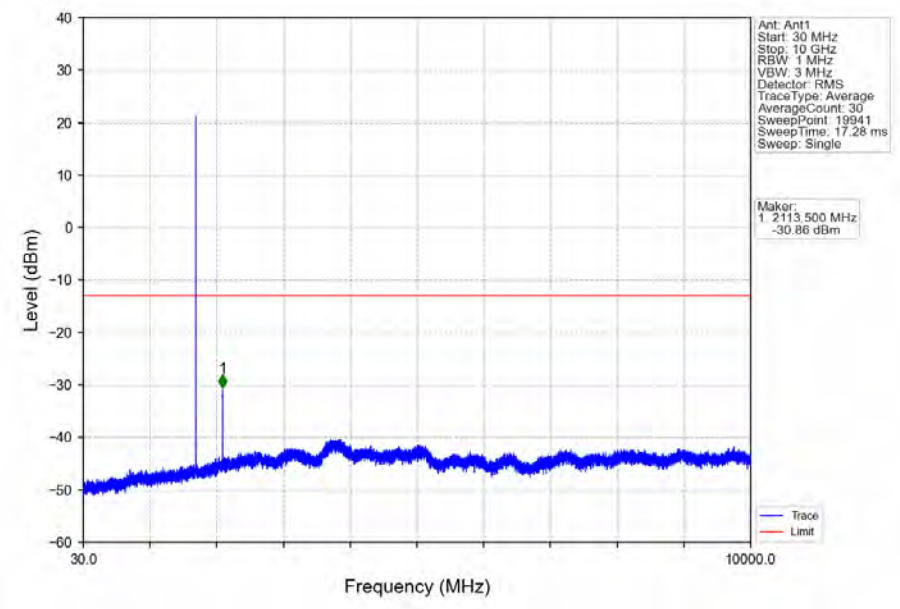

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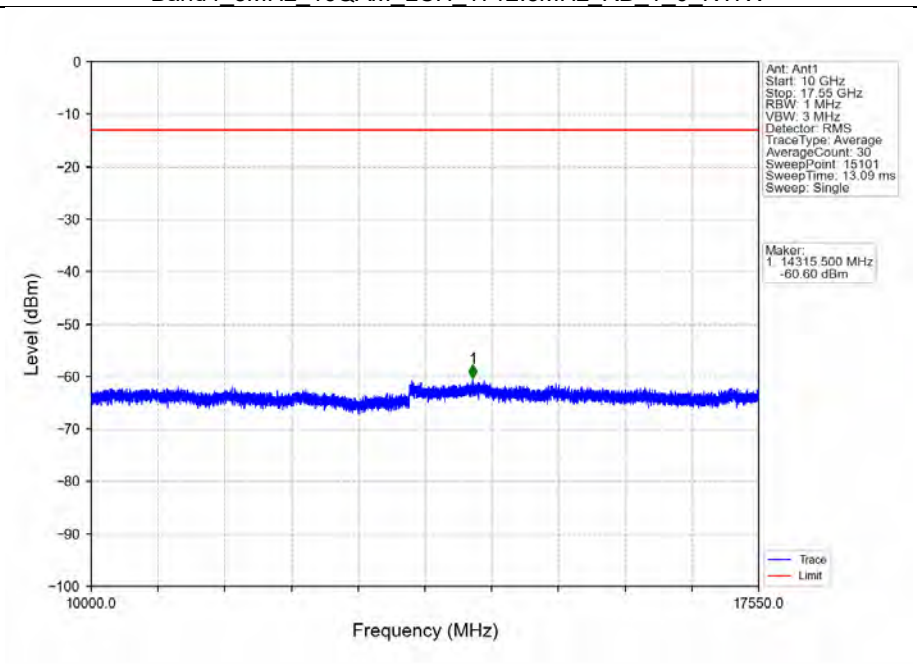

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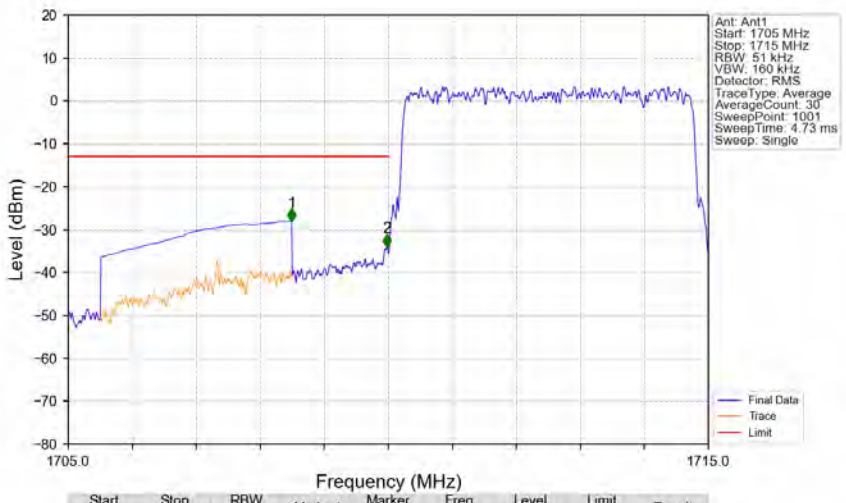

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.490	-28.11	-13	Pass
1709	1710	0.051	/	2	1709.980	-34.07	-13	Pass
1710	1715	0.051	/	/	/	/	/	/

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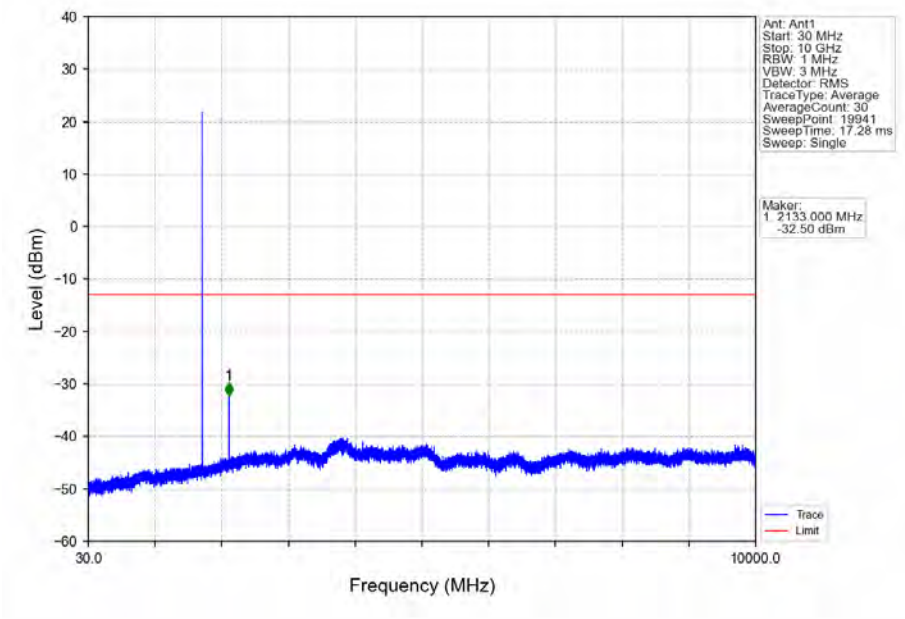

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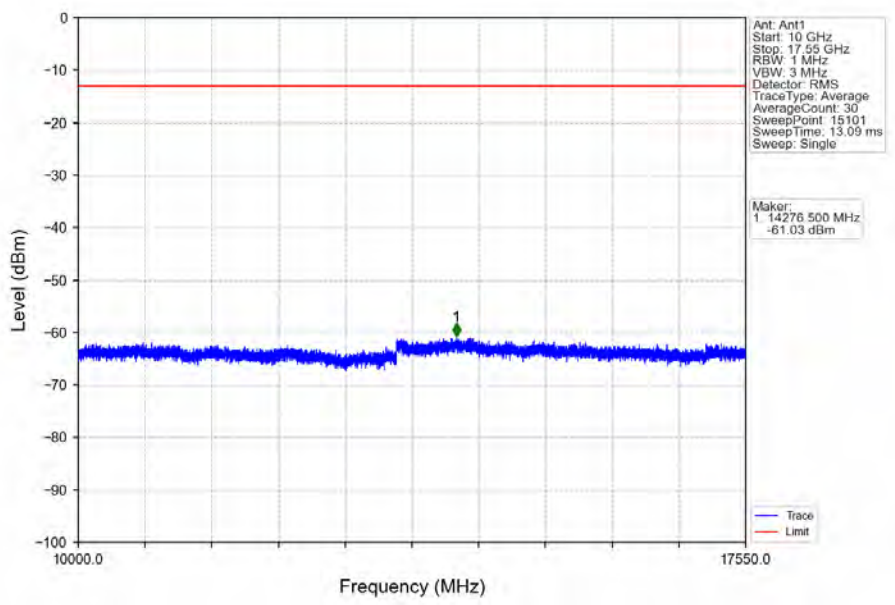

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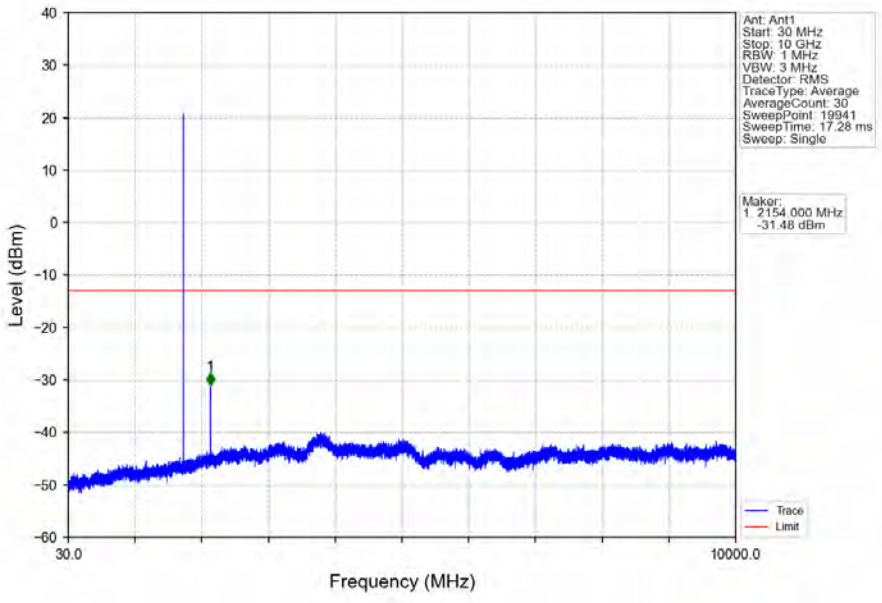
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV



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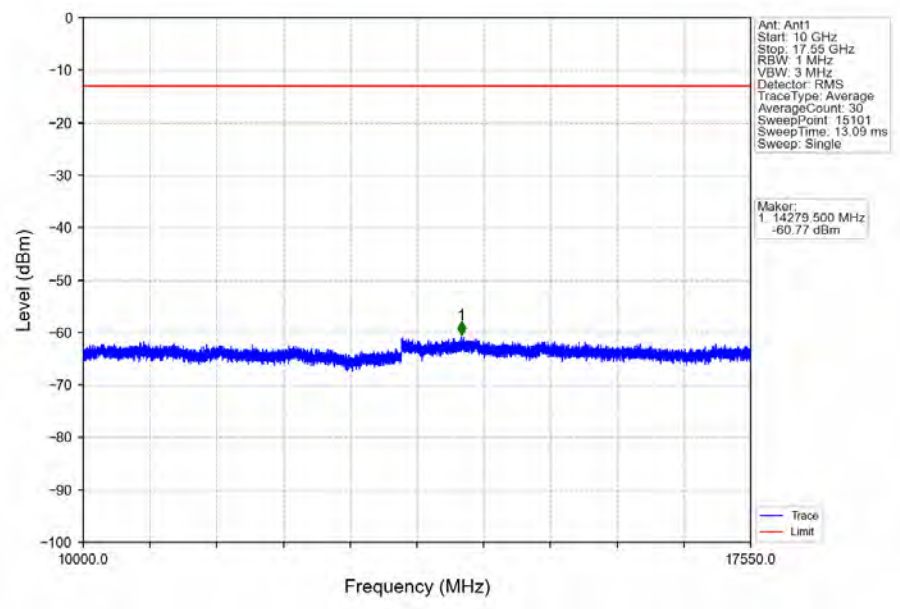

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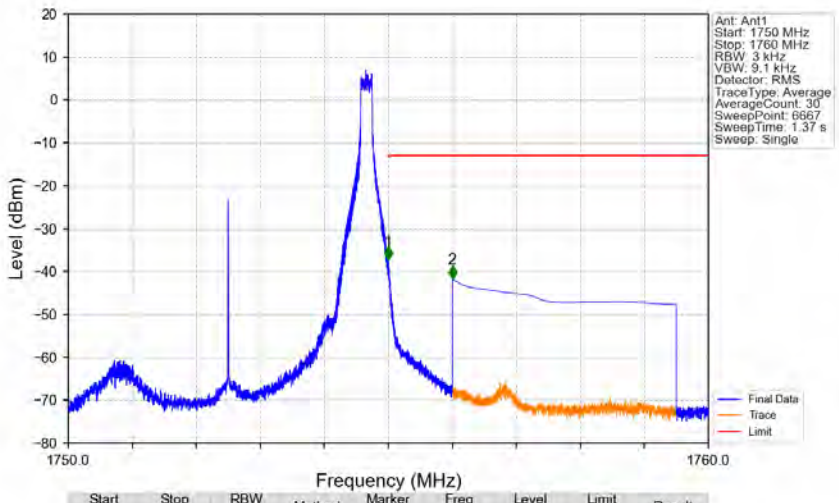

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.000	-37.36	-13	Pass
1756	1760	1	CHP	2	1756.001	-41.67	-13	Pass

Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

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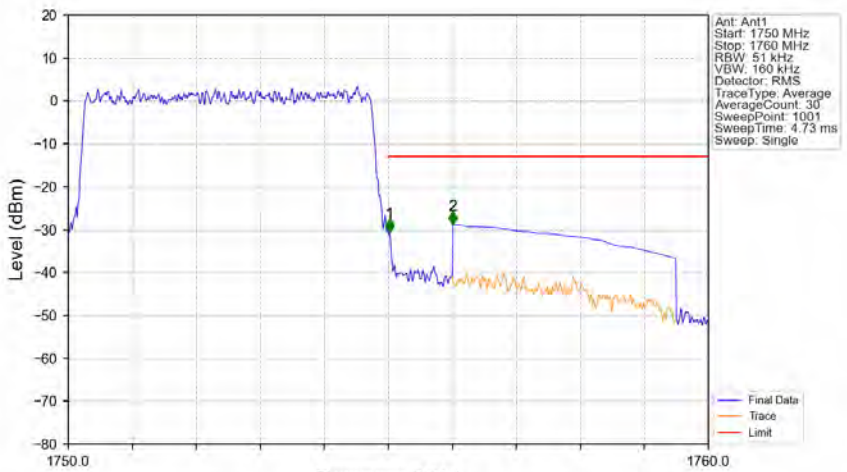

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.051	/	/	/	/	/	/
1755	1756	0.051	/	1	1755.020	-30.69	-13	Pass
1756	1760	1	CHP	2	1756.010	-28.83	-13	Pass

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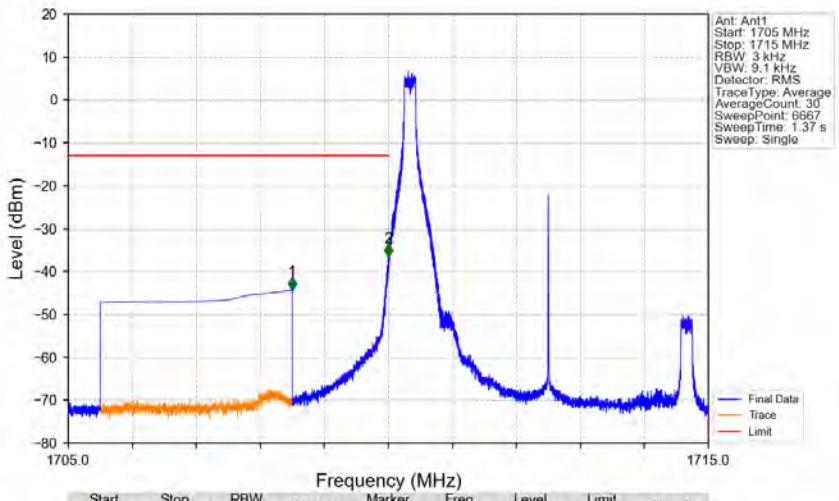
Band4_5MHz_64QAM_LCH_1712.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.498	-44.34	-13	Pass
1709	1710	0.003	/	2	1709.998	-36.57	-13	Pass
1710	1715	0.003	/	/	/	/	/	/

Band4_5MHz_64QAM_LCH_1712.5MHz_RB_1_0_NTNV

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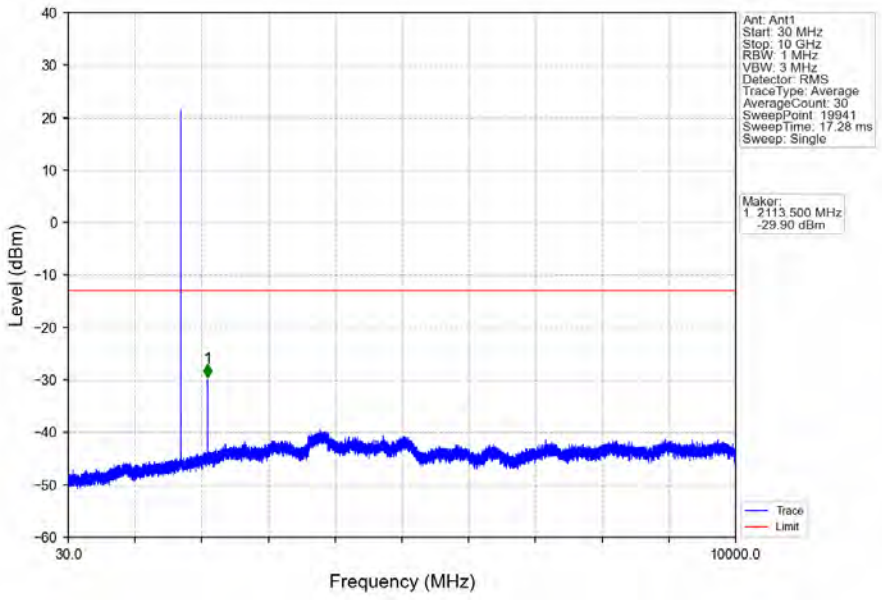

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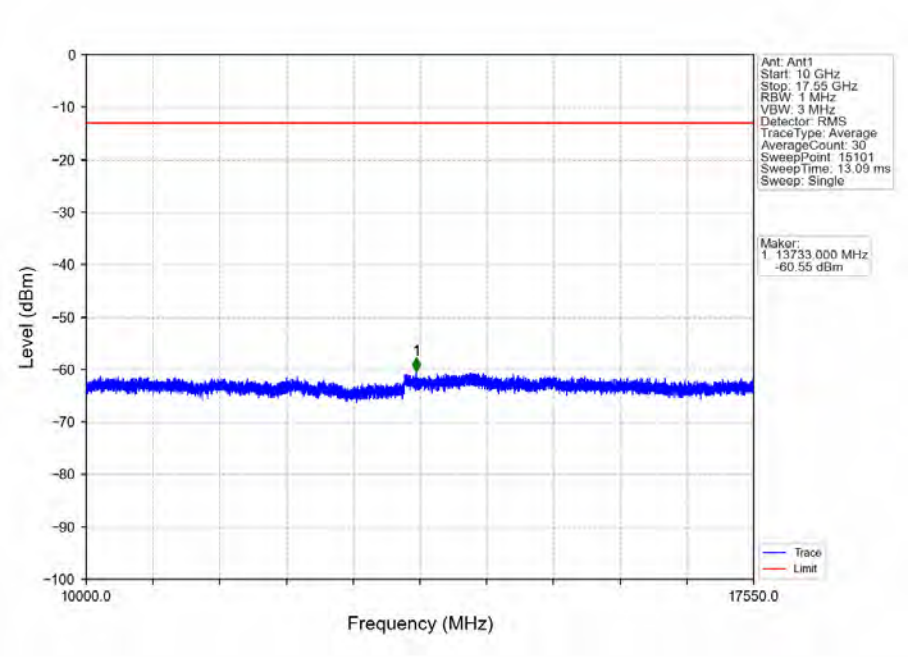

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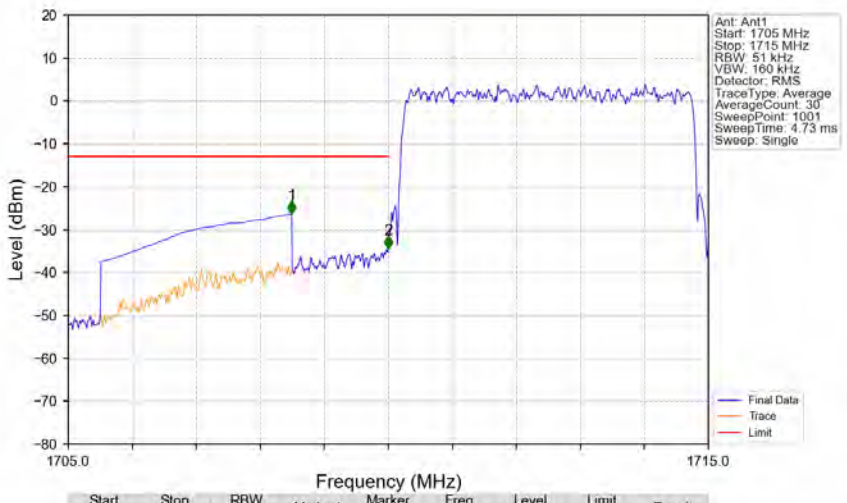

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.490	-26.46	-13	Pass
1709	1710	0.051	/	2	1710.000	-34.48	-13	Pass
1710	1715	0.051	/	/	/	/	/	/

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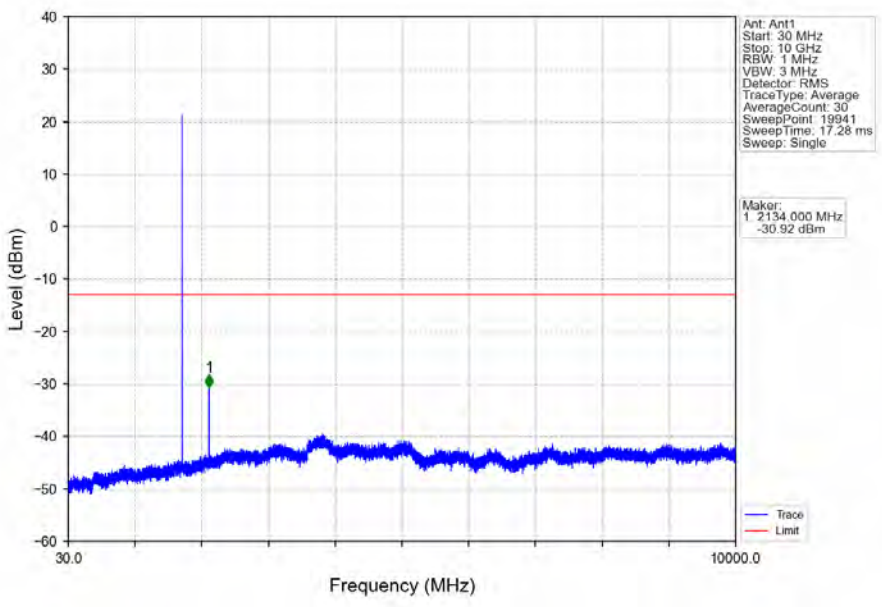

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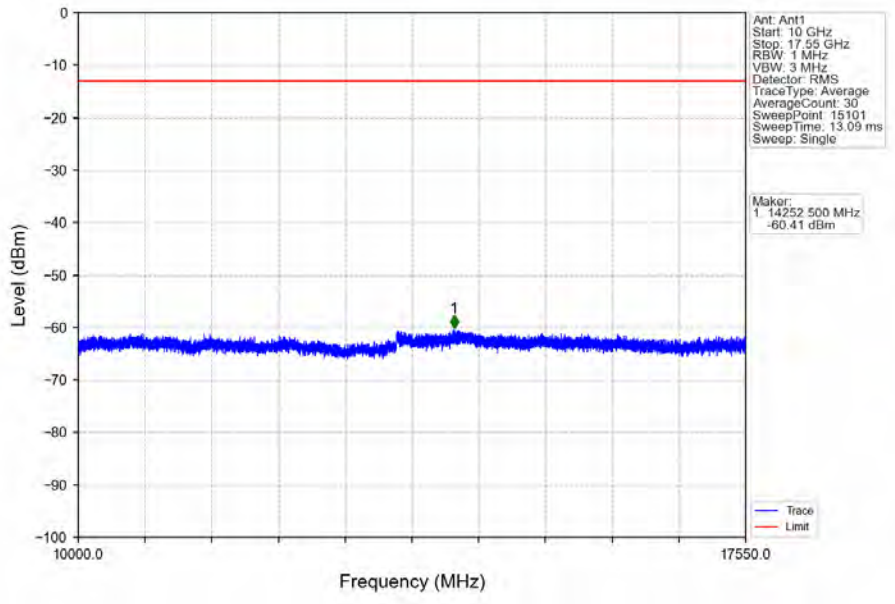

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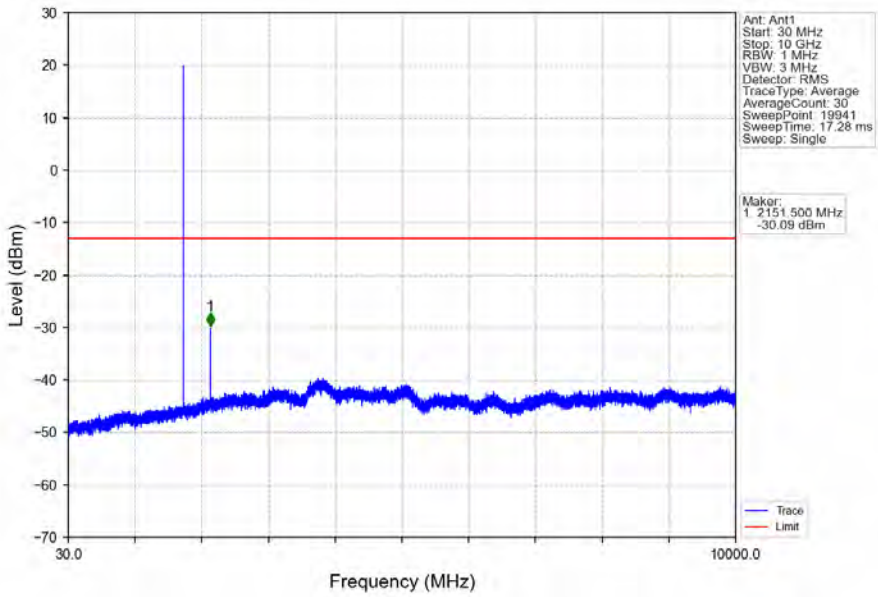

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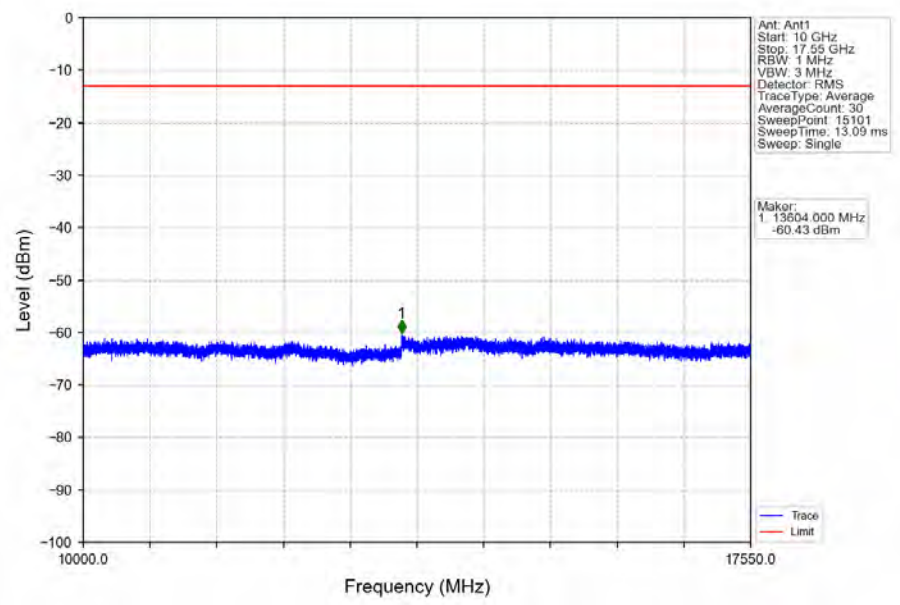

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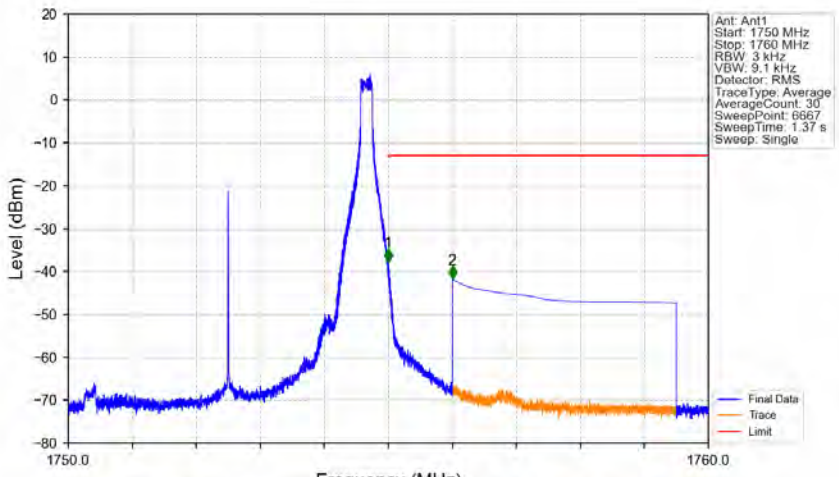
Band4_5MHz_64QAM_HCH_1752.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.000	-37.77	-13	Pass
1756	1760	1	CHP	2	1756.001	-41.78	-13	Pass

Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV

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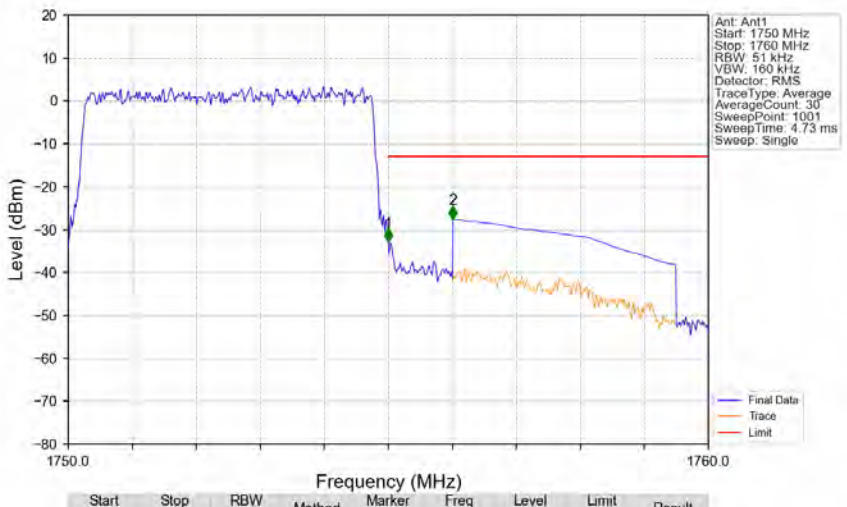

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.051	/	/	/	/	/	/
1755	1756	0.051	/	1	1755.000	-32.88	-13	Pass
1756	1760	1	CHP	2	1756.010	-27.55	-13	Pass

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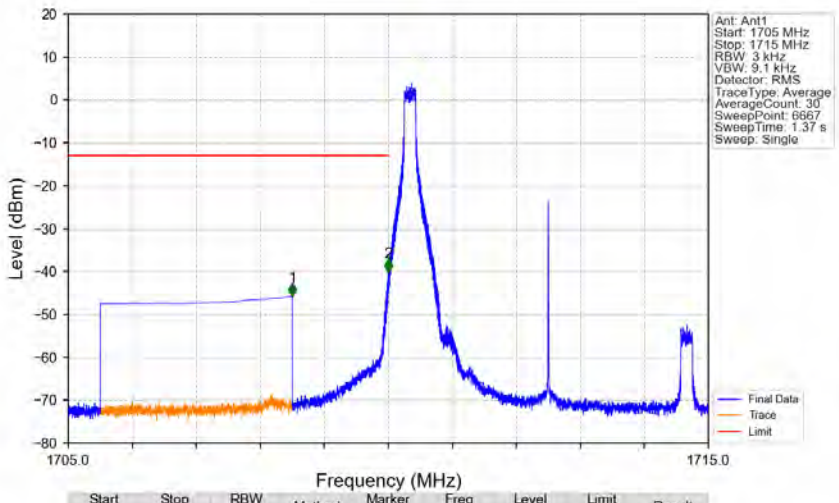
Band4_5MHz_256QAM_LCH_1712.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.500	-45.81	-13	Pass
1709	1710	0.003	/	2	1709.997	-40.11	-13	Pass
1710	1715	0.003	/	/	/	/	/	/

Band4_5MHz_256QAM_LCH_1712.5MHz_RB_1_0_NTNV

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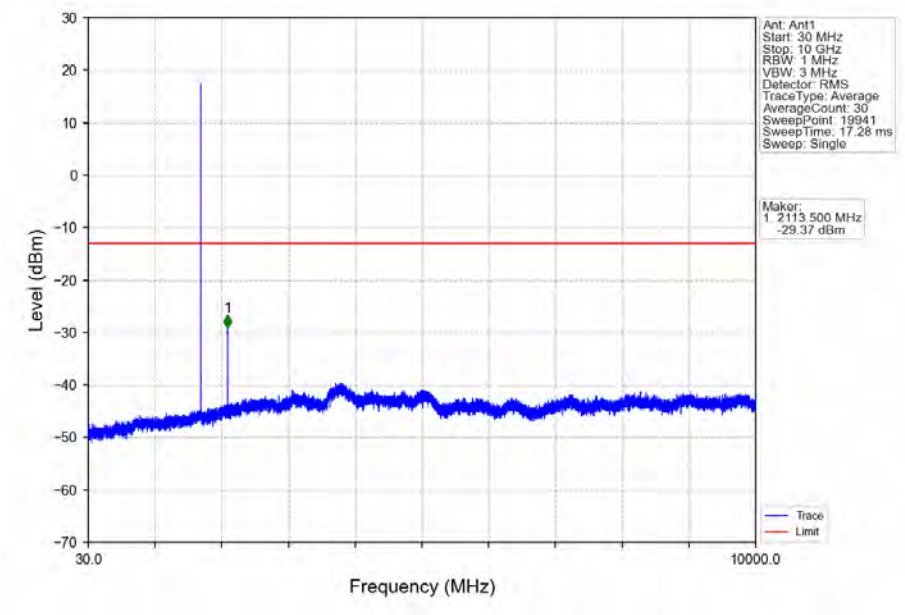

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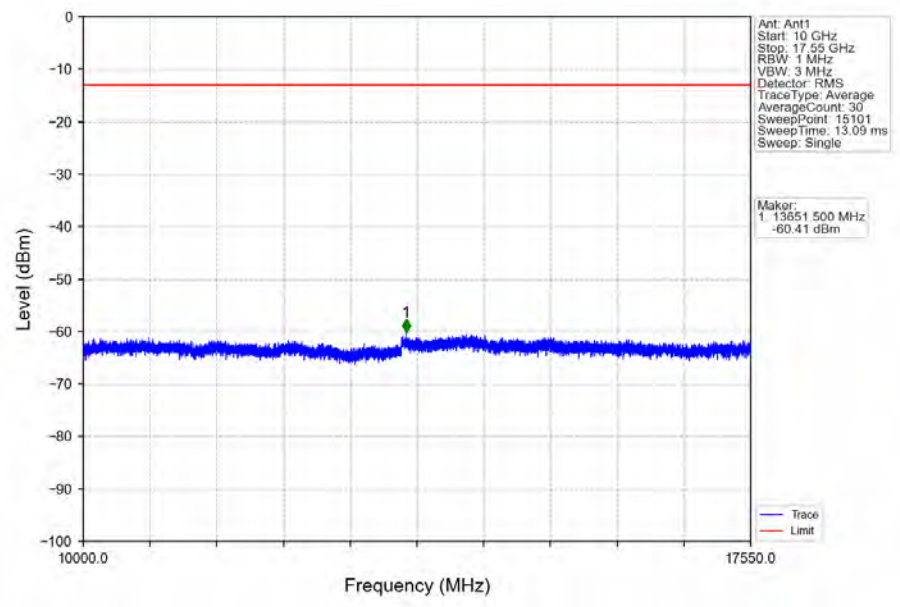

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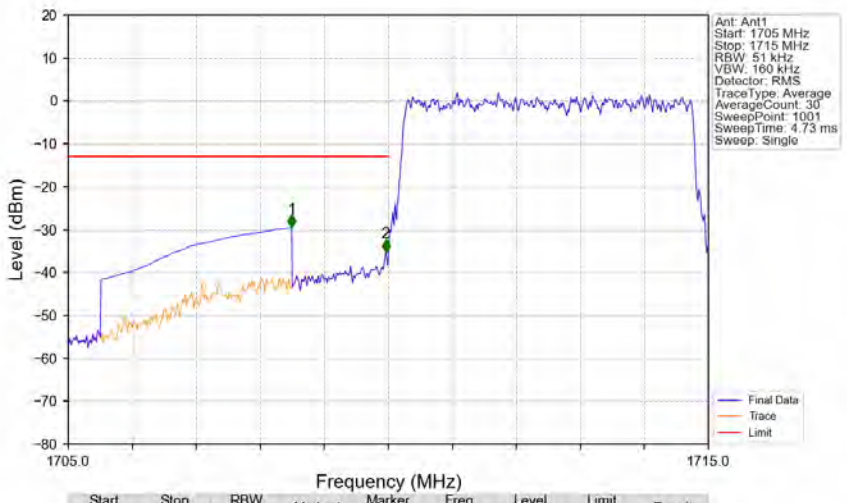

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.490	-29.56	-13	Pass
1709	1710	0.051	/	2	1709.960	-35.30	-13	Pass
1710	1715	0.051	/	/	/	/	/	/

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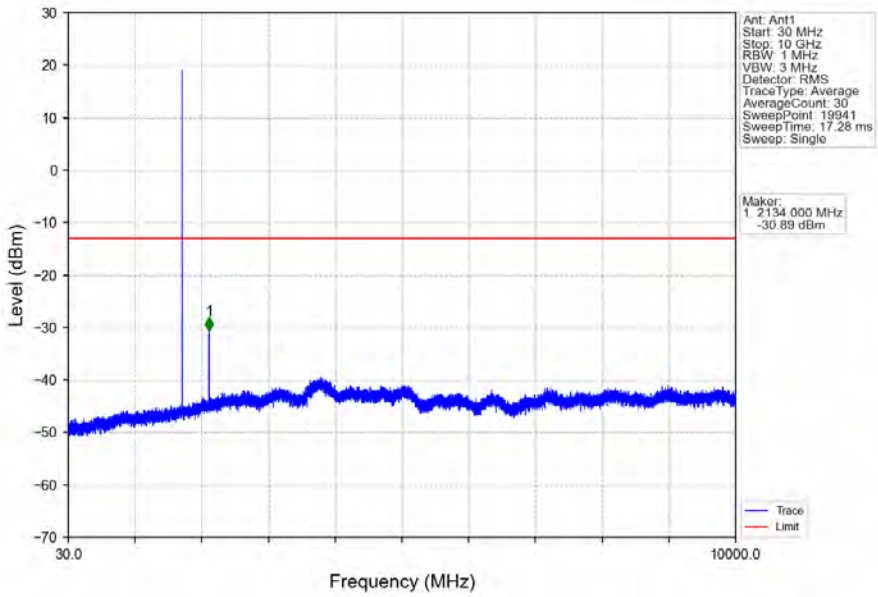

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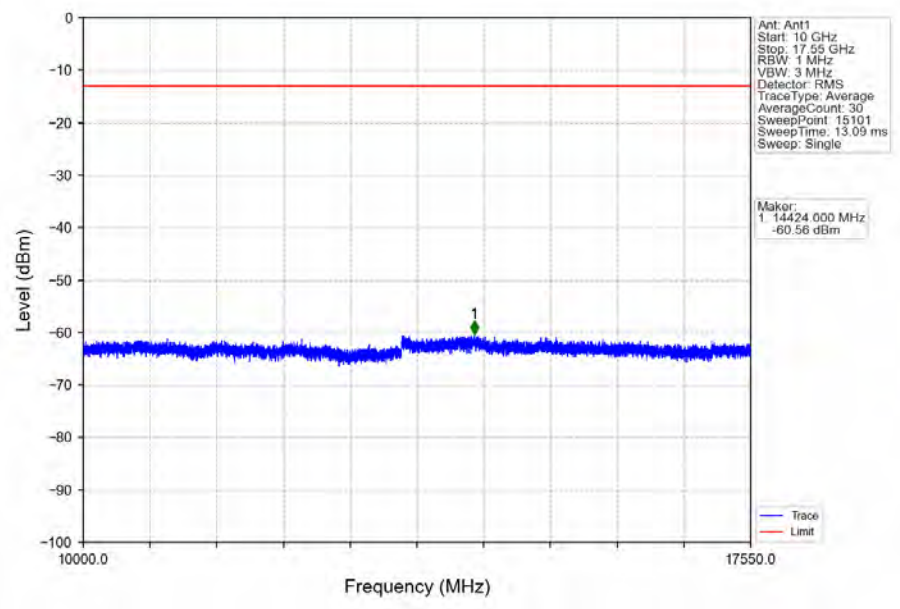

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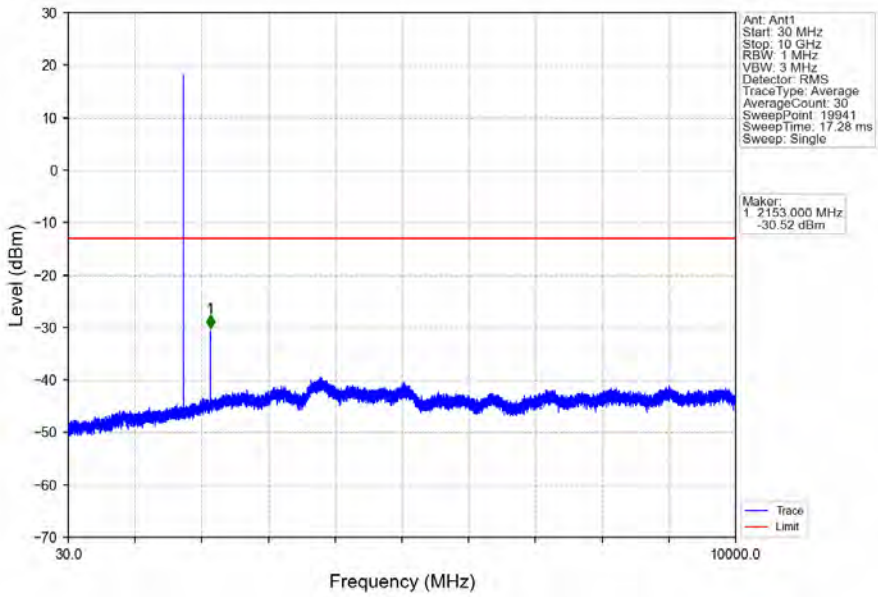

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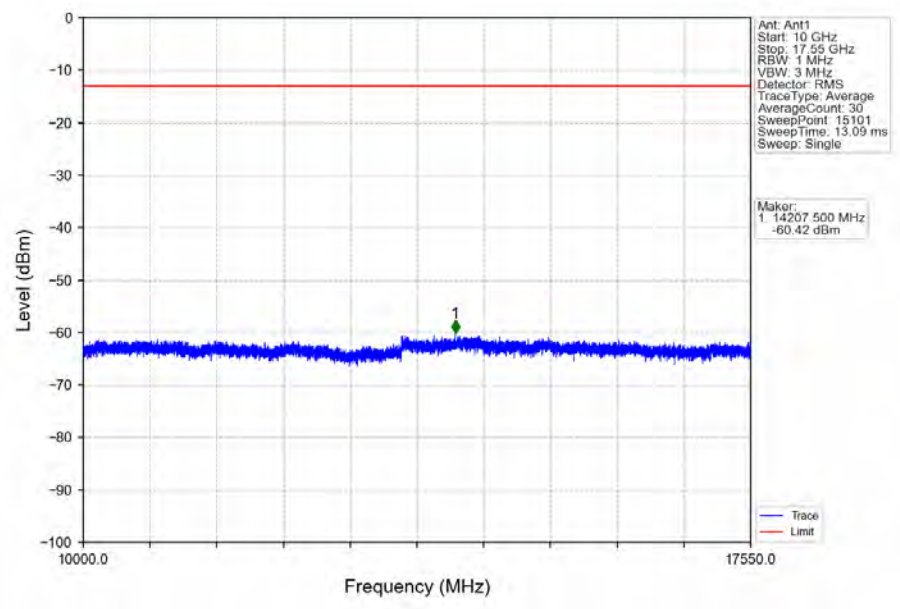

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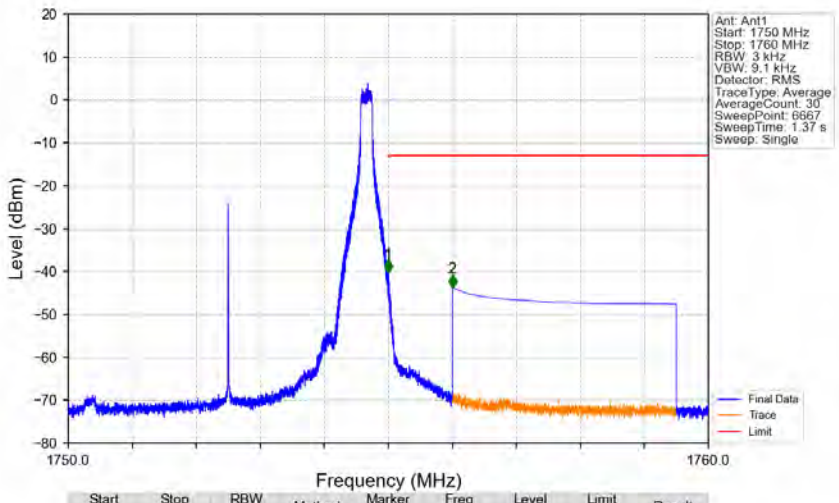

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.000	-40.38	-13	Pass
1756	1760	1	CHP	2	1756.001	-43.75	-13	Pass

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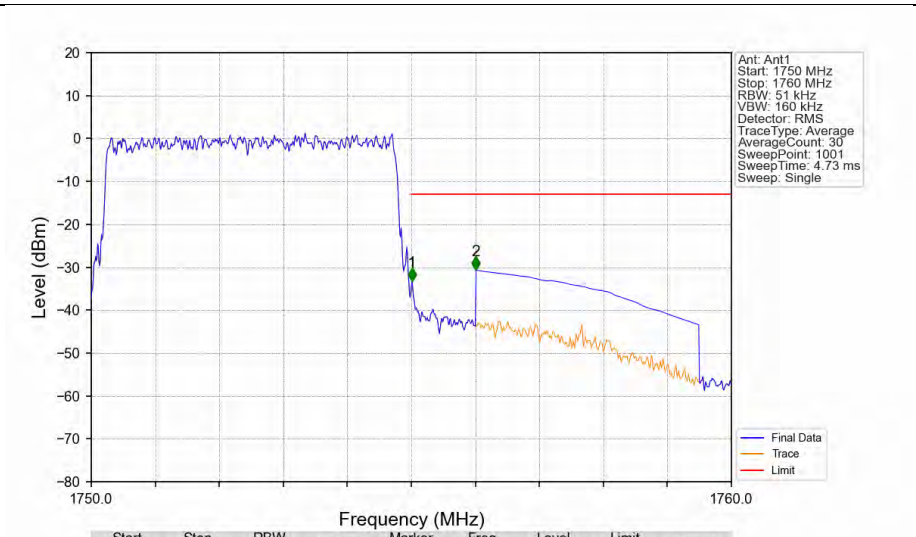

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.051	/	/	/	/	/	/
1755	1756	0.051	/	1	1755.010	-33.27	-13	Pass
1756	1760	1	CHP	2	1756.010	-30.69	-13	Pass

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5.4 B4_10MHz

5.4.1 Test Result

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
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
64QAM	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
256QAM	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

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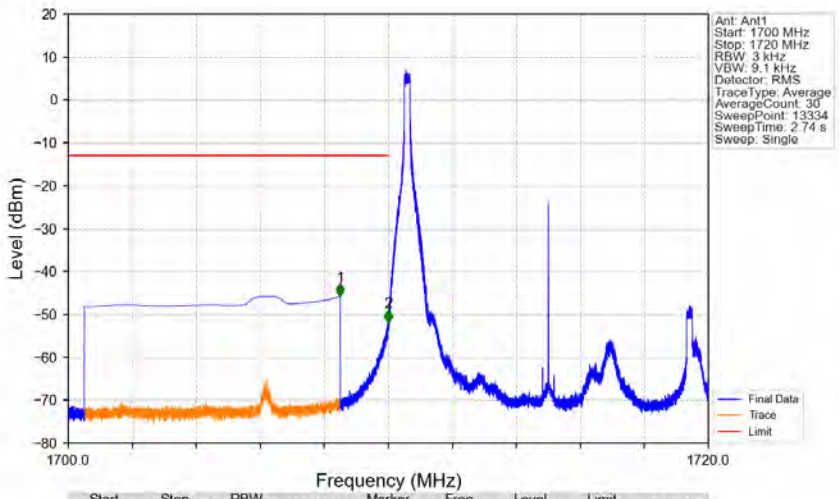
5.4.2 Test Graph

Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.498	-45.79	-13	Pass
1709	1710	0.003	/	2	1709.996	-51.87	-13	Pass
1710	1720	0.003	/	/	/	/	/	/

Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV

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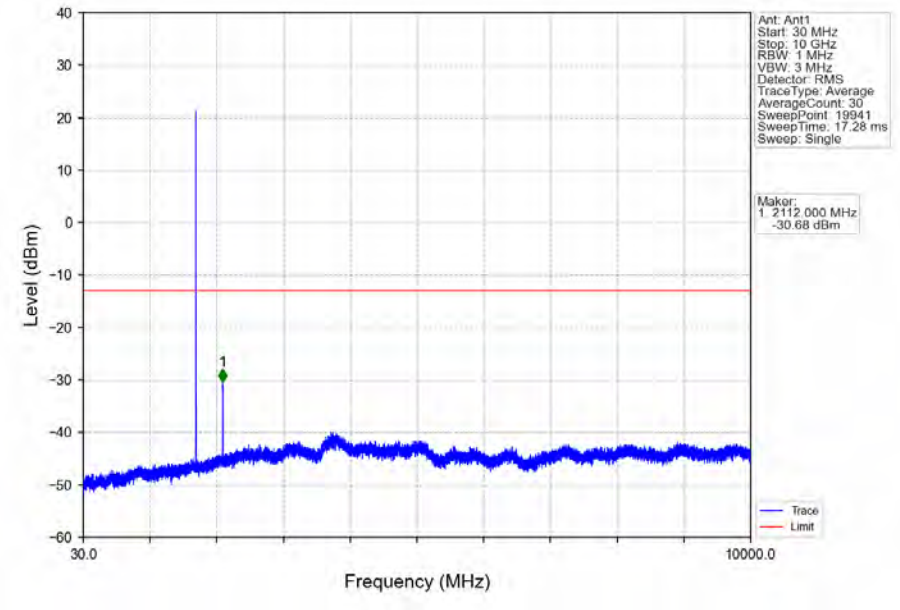

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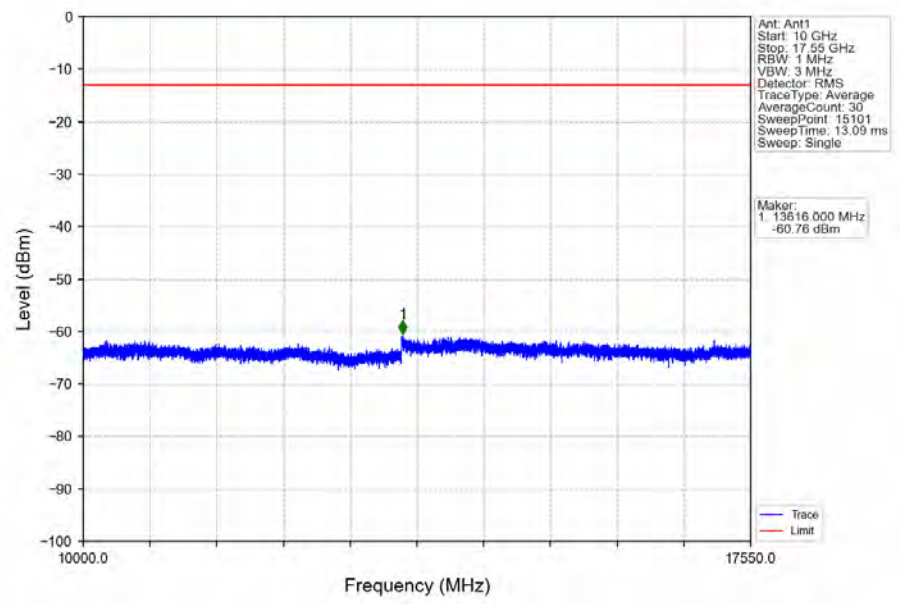
Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV

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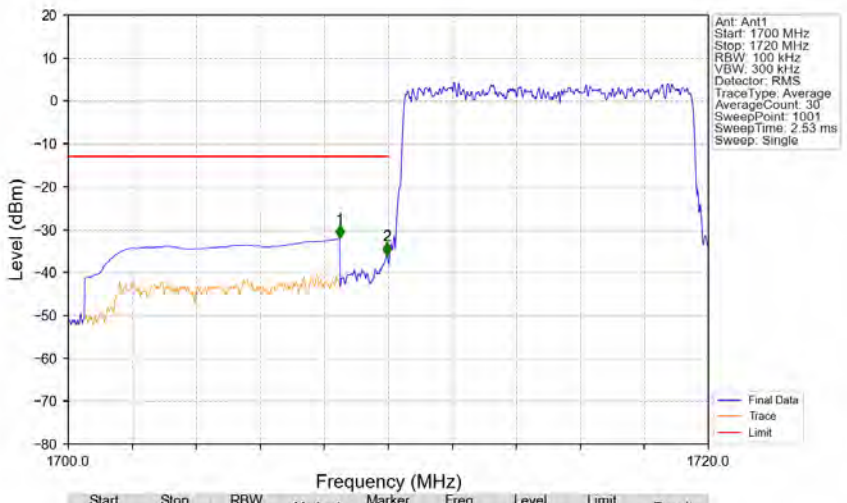

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.480	-31.98	-13	Pass
1709	1710	0.1	/	2	1709.960	-35.99	-13	Pass
1710	1720	0.1	/	/	/	/	/	/

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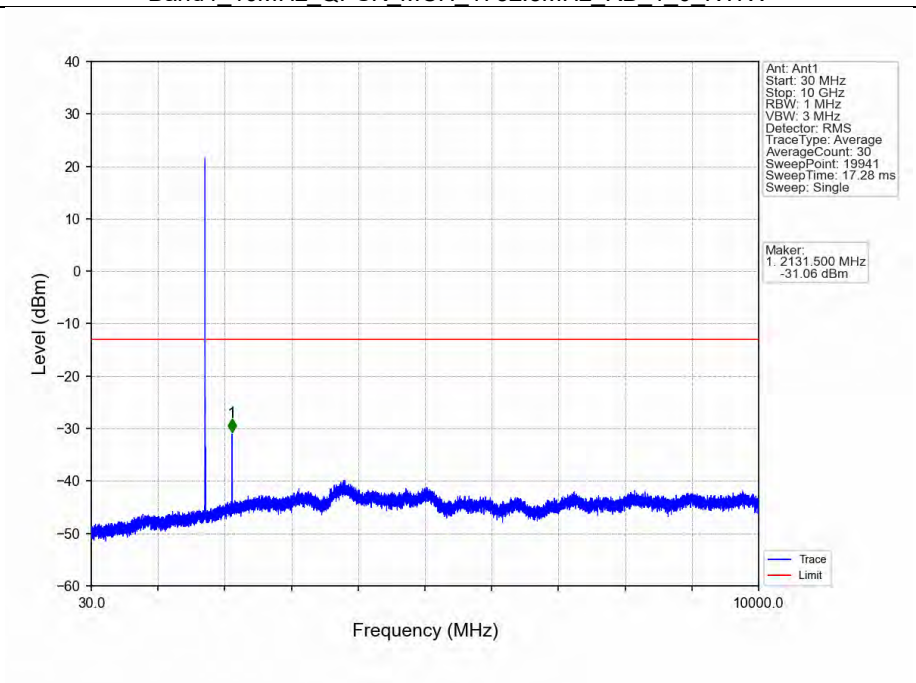

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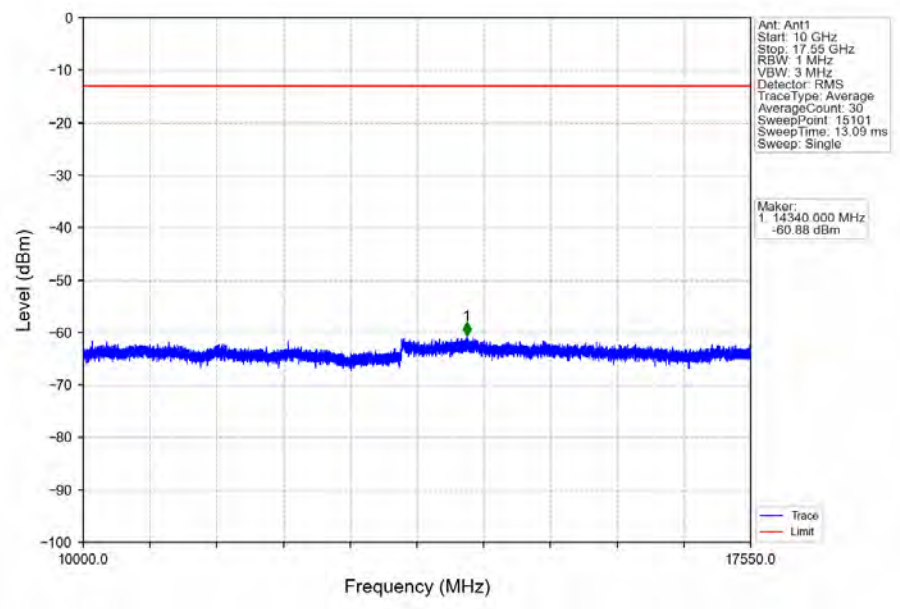

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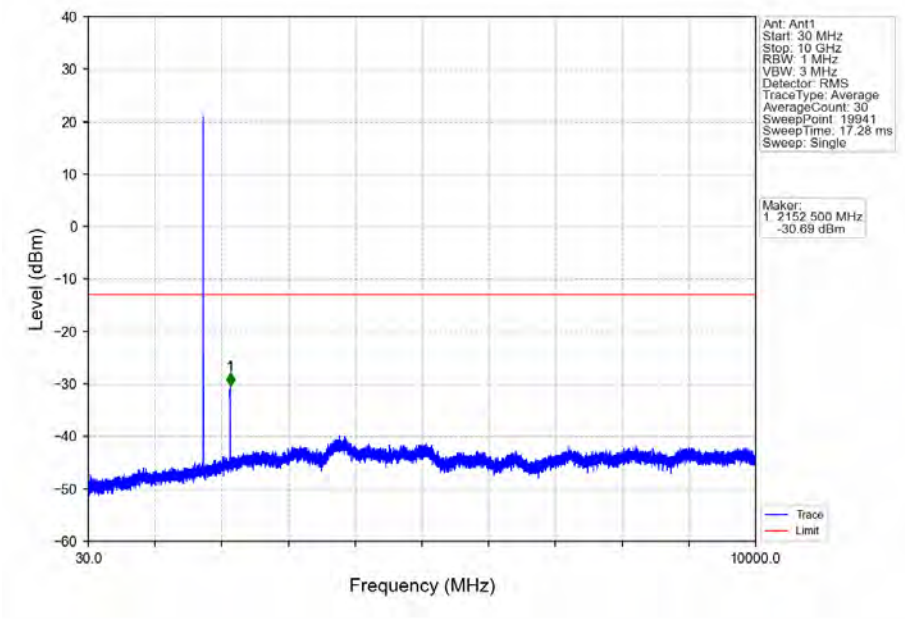

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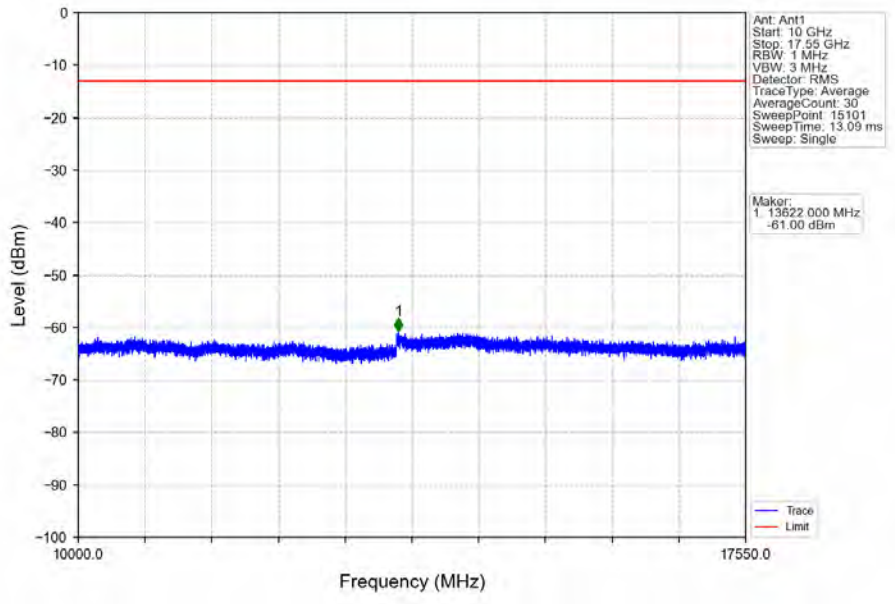

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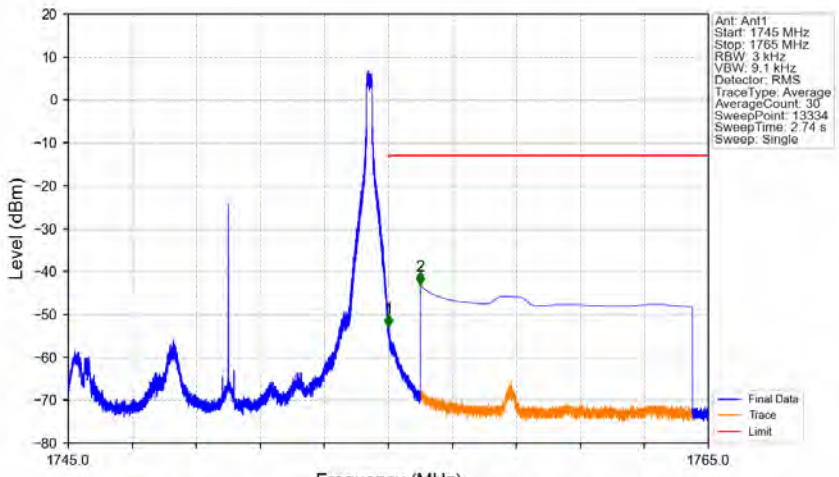

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.005	-53.03	-13	Pass
1756	1765	1	CHP	2	1756.001	-43.16	-13	Pass

Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV

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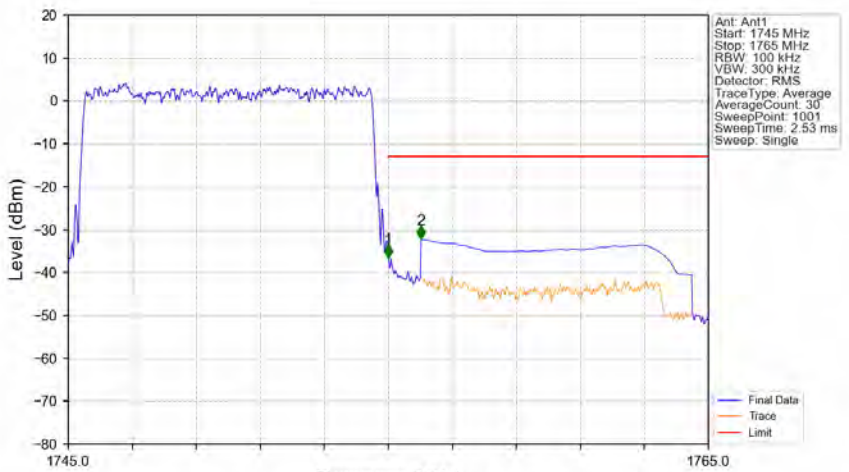

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.1	/	/	/	/	/	/
1755	1756	0.1	/	1	1755.000	-36.64	-13	Pass
1756	1765	1	CHP	2	1756.020	-32.26	-13	Pass

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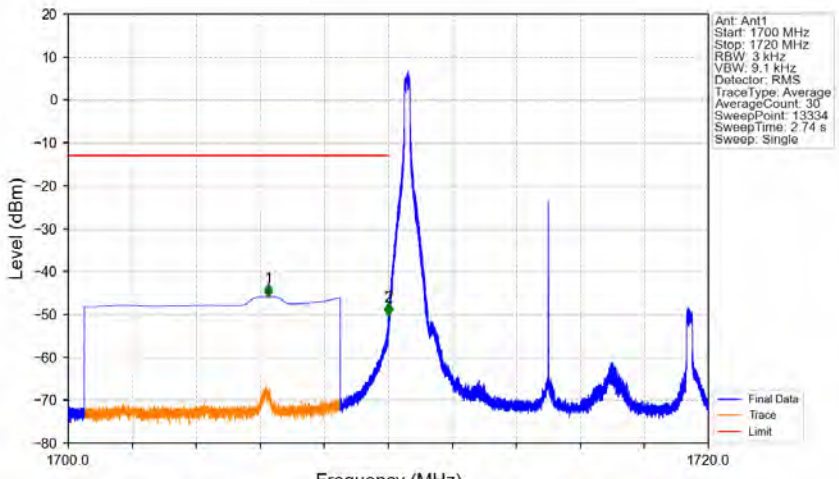

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1706.249	-45.91	-13	Pass
1709	1710	0.003	/	2	1709.998	-50.44	-13	Pass
1710	1720	0.003	/	/	/	/	/	/

Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV

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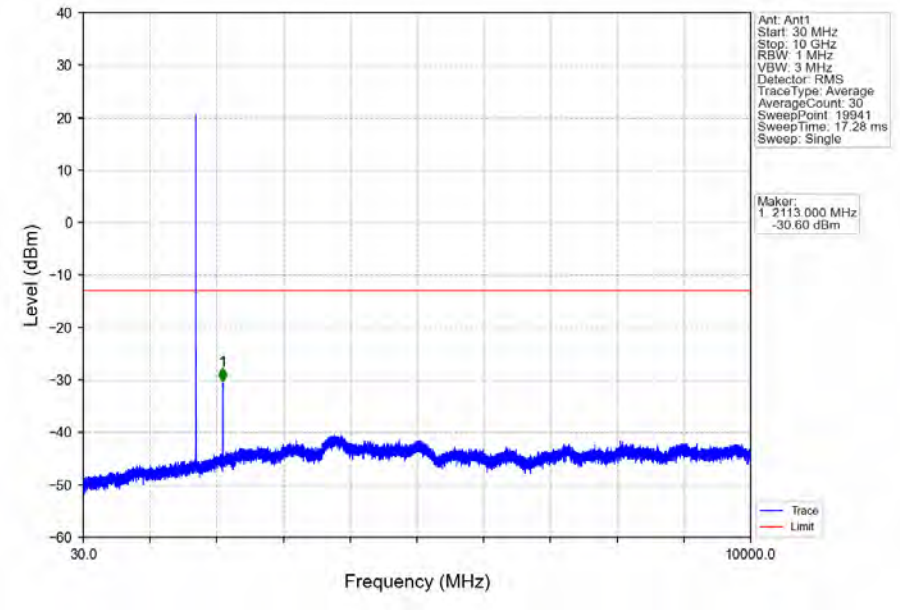

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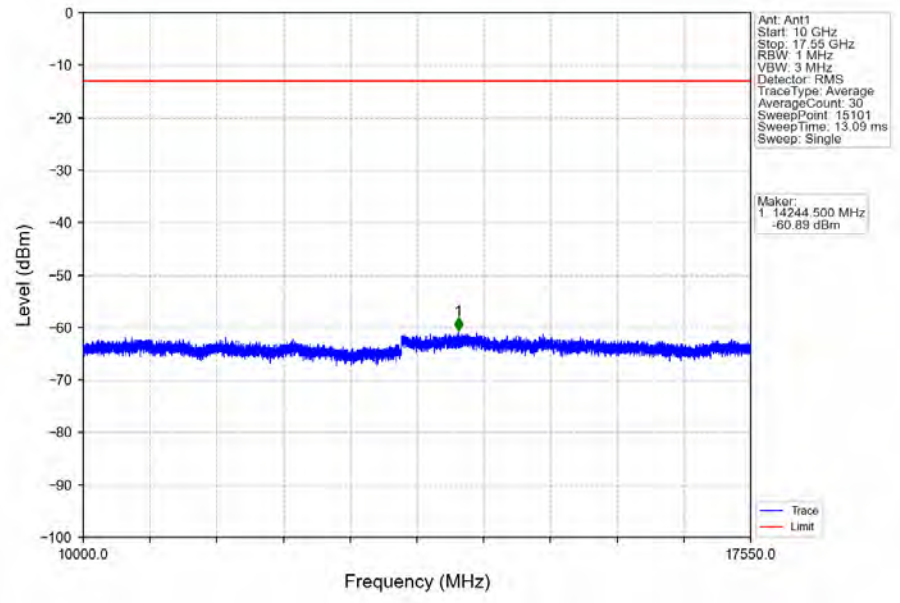
Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



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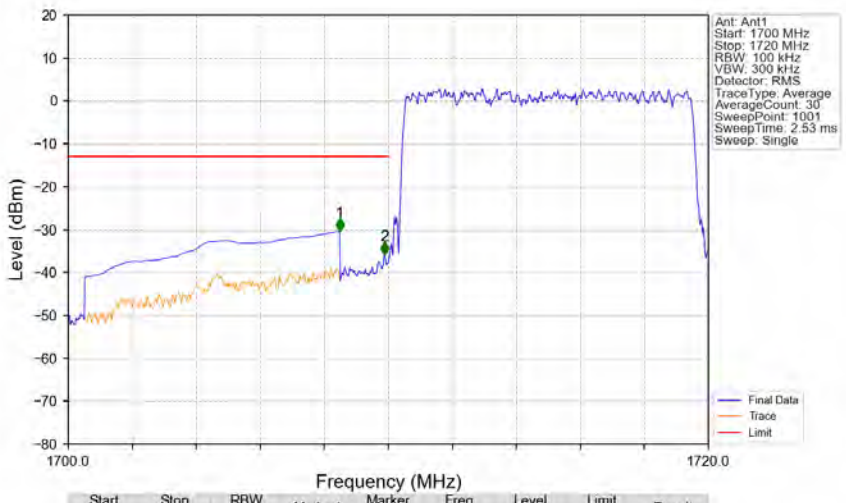

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.480	-30.42	-13	Pass
1709	1710	0.1	/	2	1709.880	-35.87	-13	Pass
1710	1720	0.1	/	/	/	/	/	/

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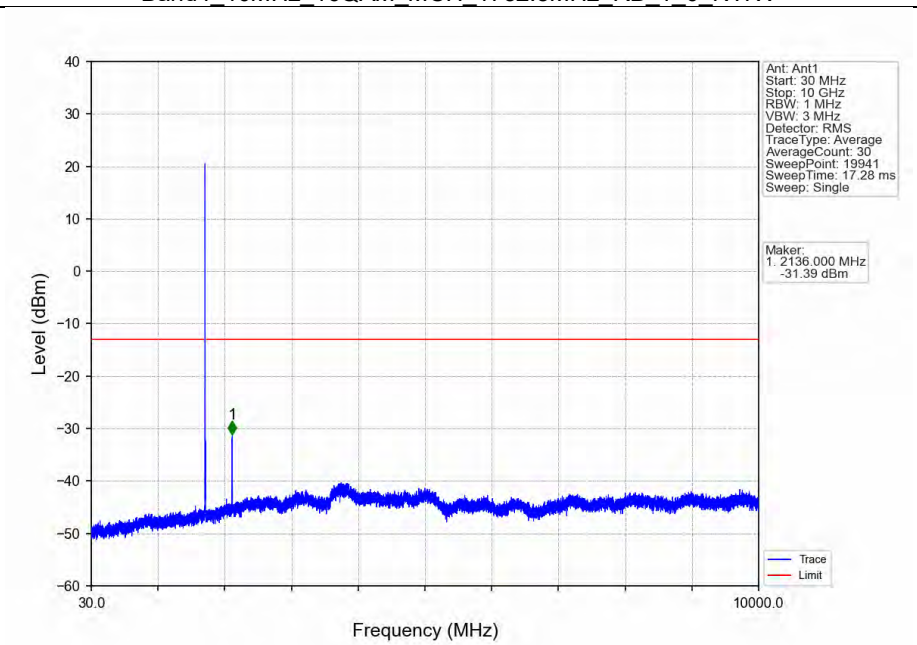

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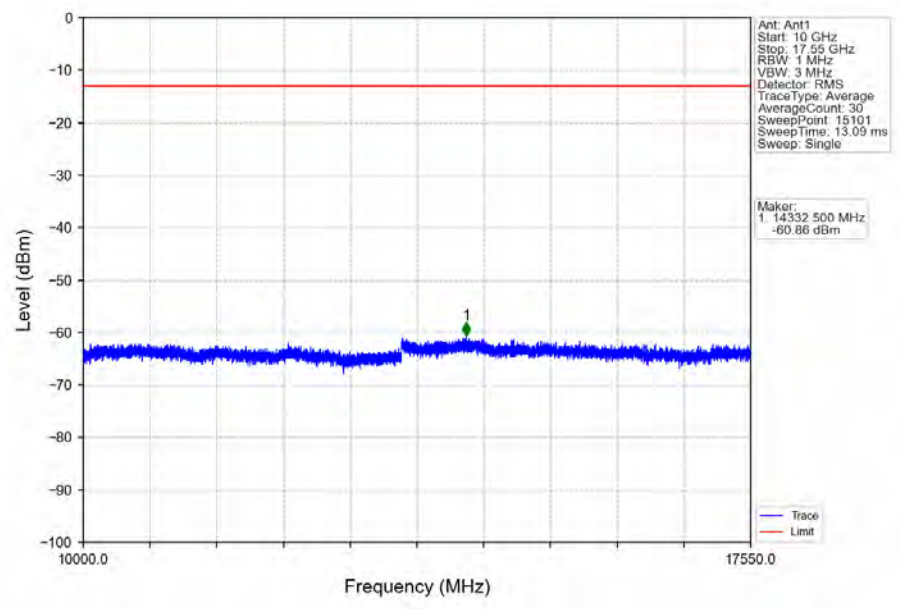

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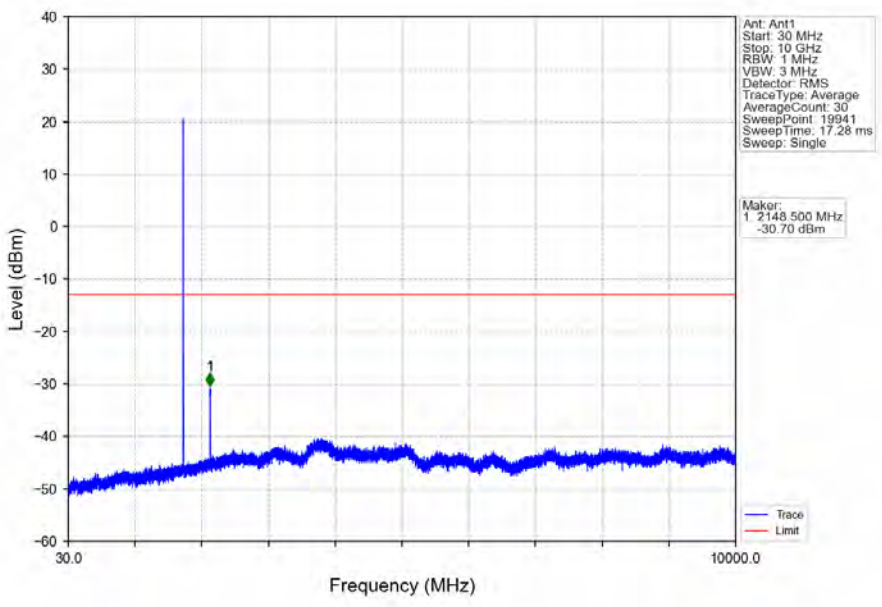

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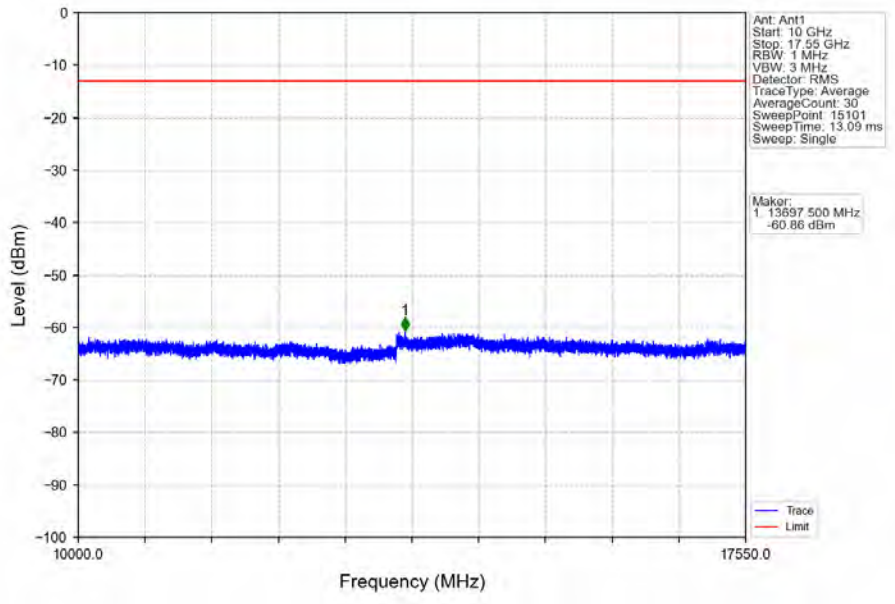

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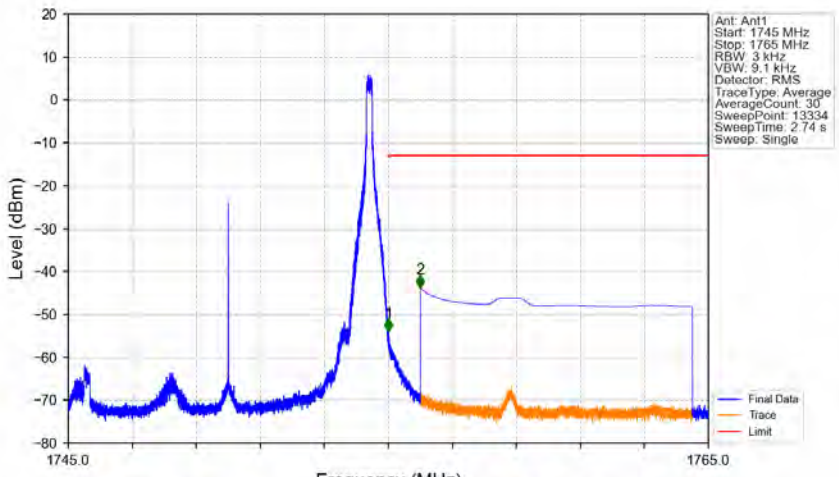

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-54.11	-13	Pass
1756	1765	1	CHP	2	1756.001	-43.88	-13	Pass

Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

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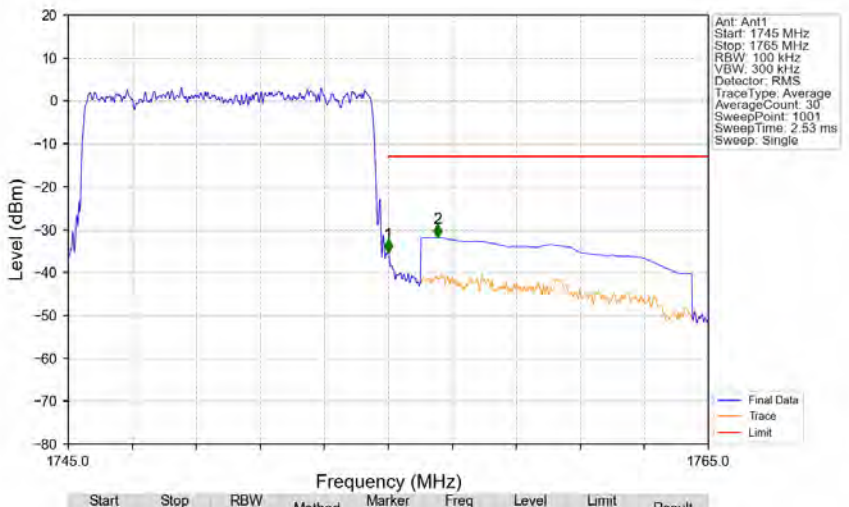

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.1	/	/	/	/	/	/
1755	1756	0.1	/	1	1755.000	-35.34	-13	Pass
1756	1765	1	CHP	2	1756.540	-31.90	-13	Pass

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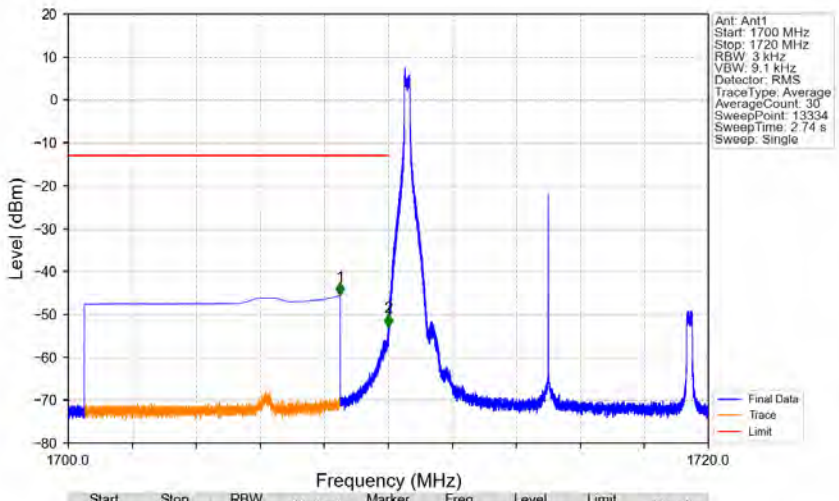

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.498	-45.57	-13	Pass
1709	1710	0.003	/	2	1709.996	-52.93	-13	Pass
1710	1720	0.003	/	/	/	/	/	/

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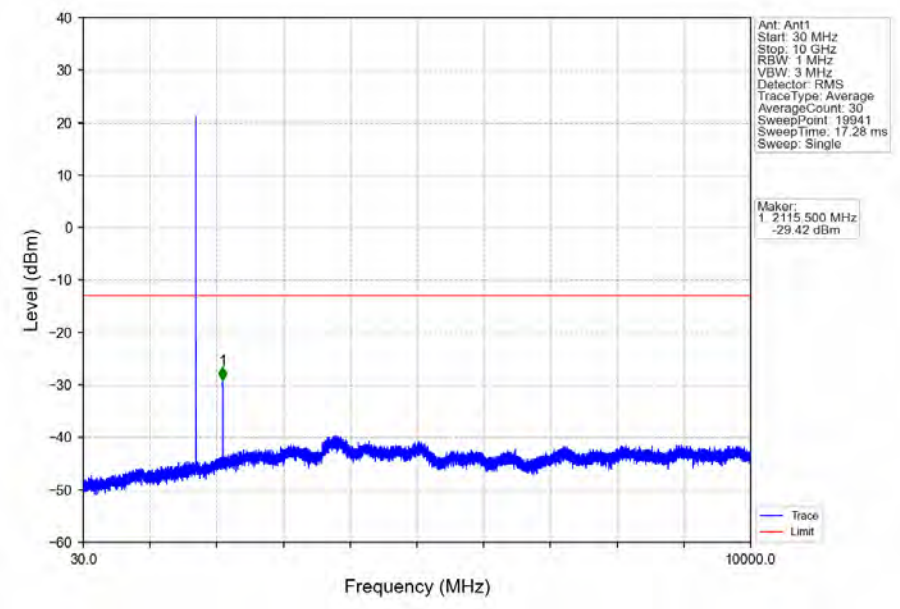

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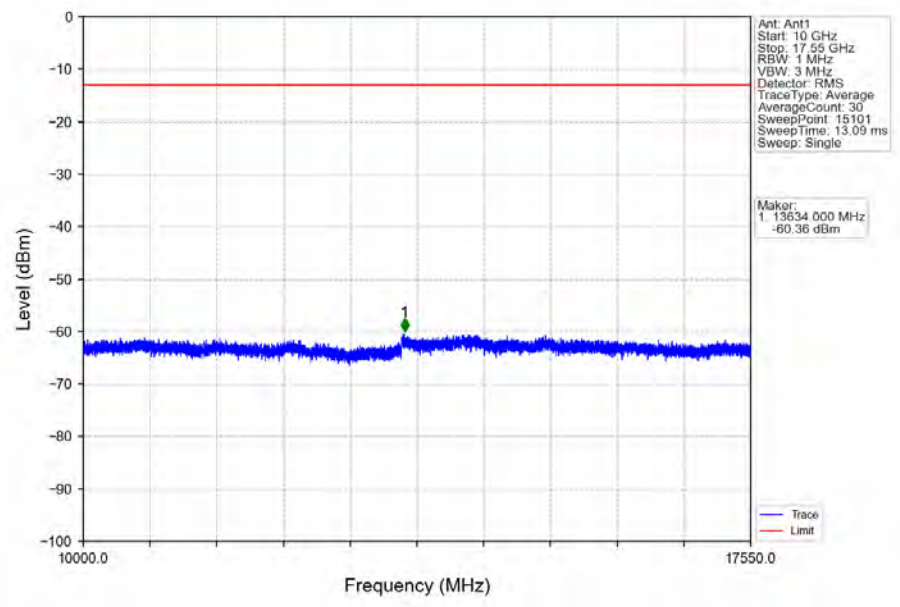

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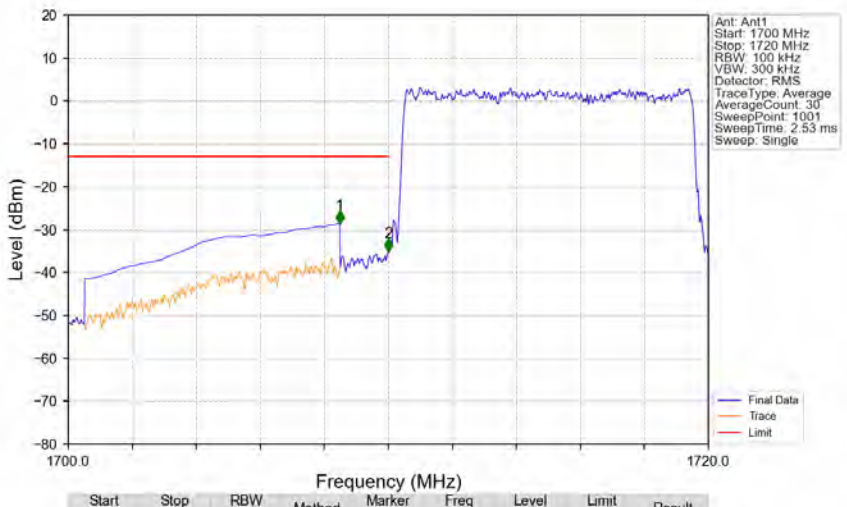

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.480	-28.62	-13	Pass
1709	1710	0.1	/	2	1710.000	-35.15	-13	Pass
1710	1720	0.1	/	/	/	/	/	/

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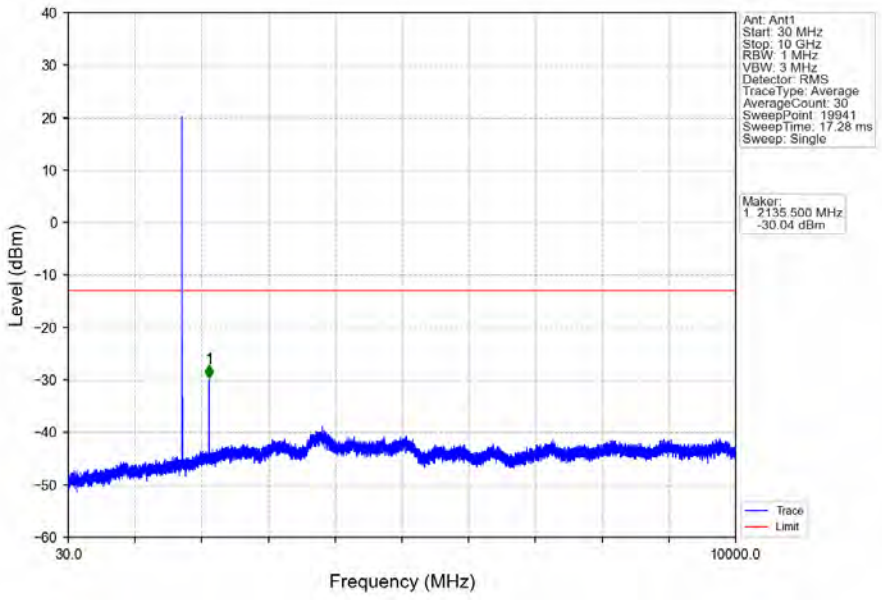
Band4_10MHz_64QAM_MCH_1732.5MHz_RB_1_0_NTNV



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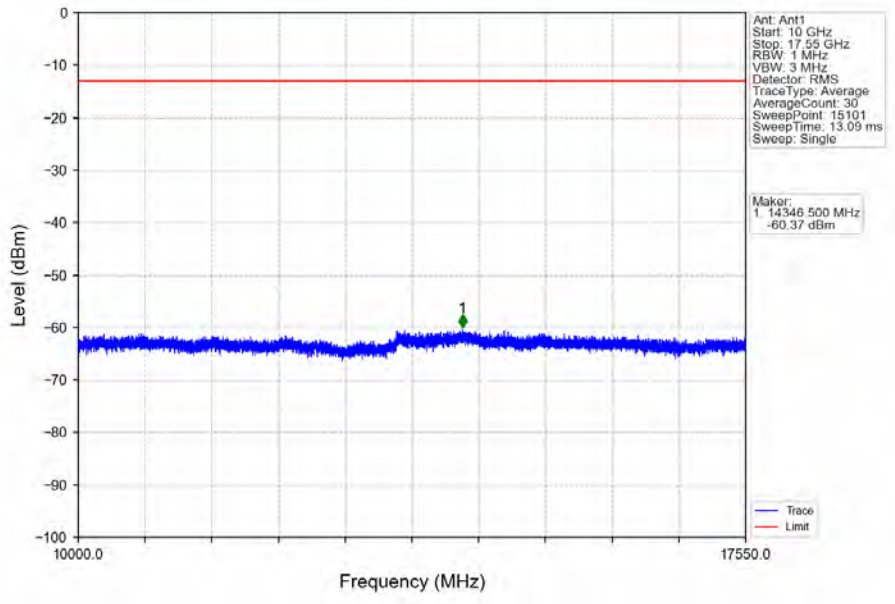

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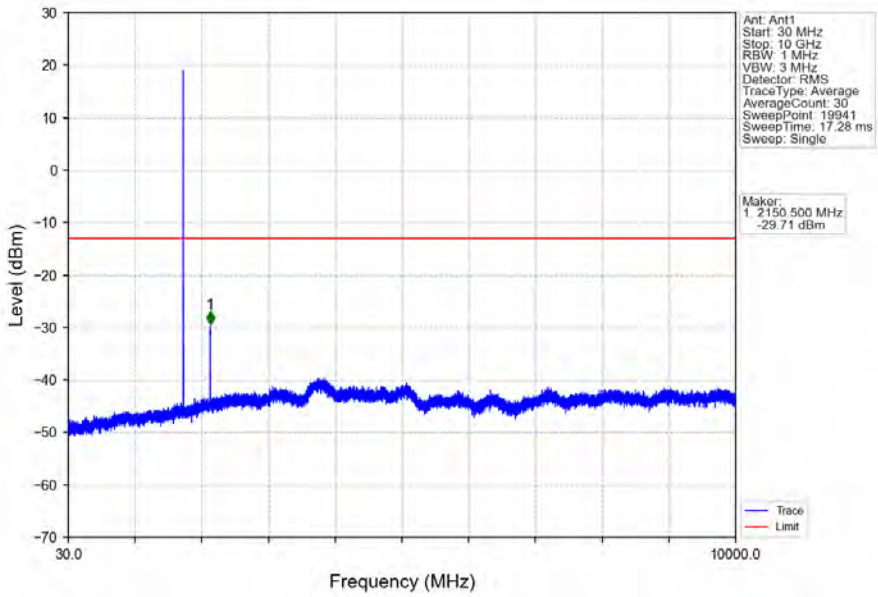

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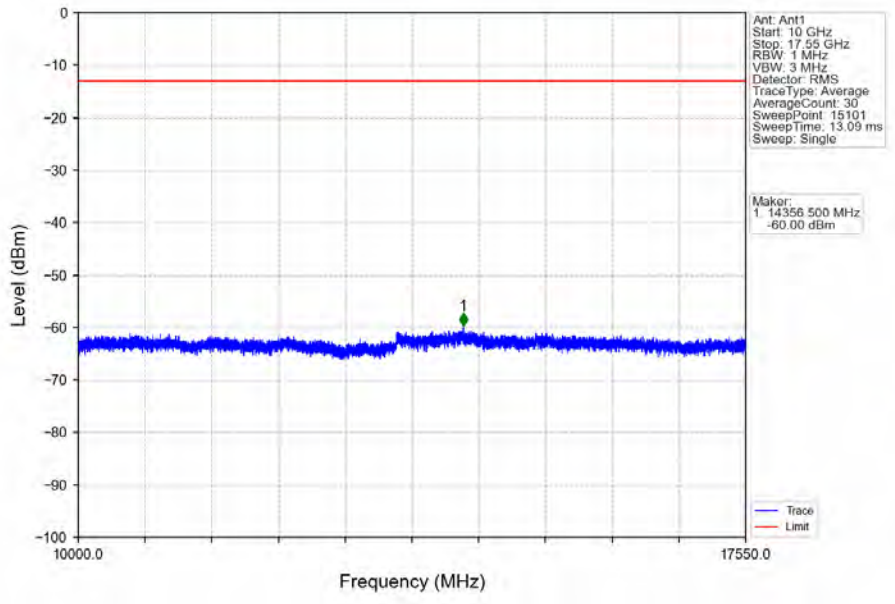

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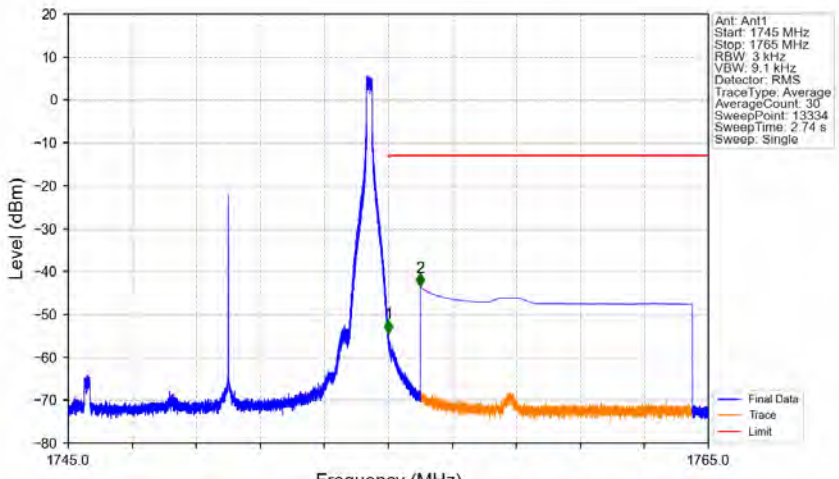

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.004	-54.35	-13	Pass
1756	1765	1	CHP	2	1756.001	-43.57	-13	Pass

Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV

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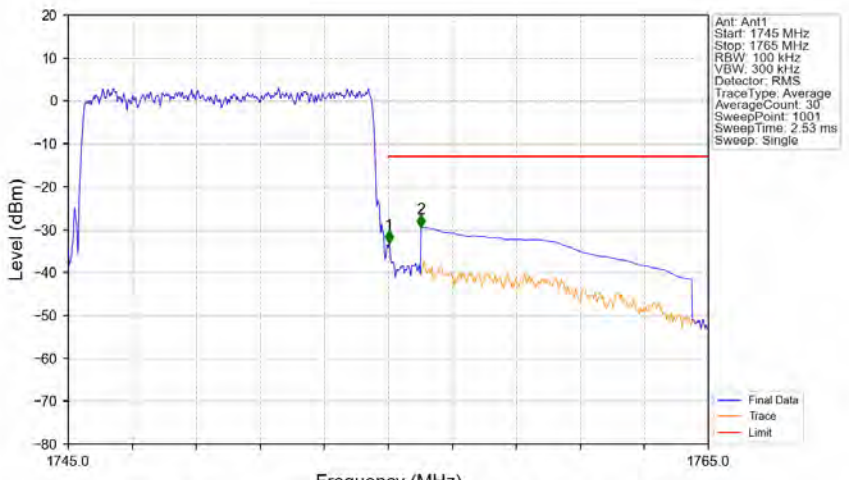

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.1	/	/	/	/	/	/
1755	1756	0.1	/	1	1755.020	-33.30	-13	Pass
1756	1765	1	CHP	2	1756.020	-29.56	-13	Pass

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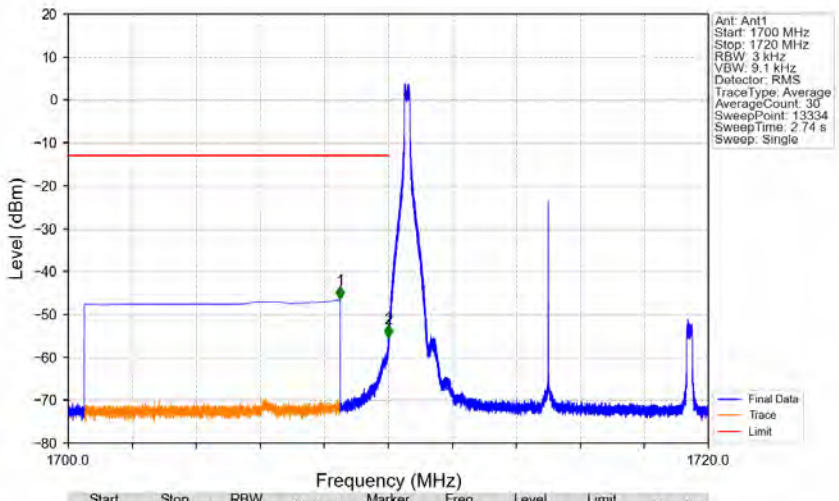

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.496	-46.57	-13	Pass
1709	1710	0.003	/	2	1709.996	-55.45	-13	Pass
1710	1720	0.003	/	/	/	/	/	/

Band4_10MHz_256QAM_LCH_1715MHz_RB_1_0_NTNV

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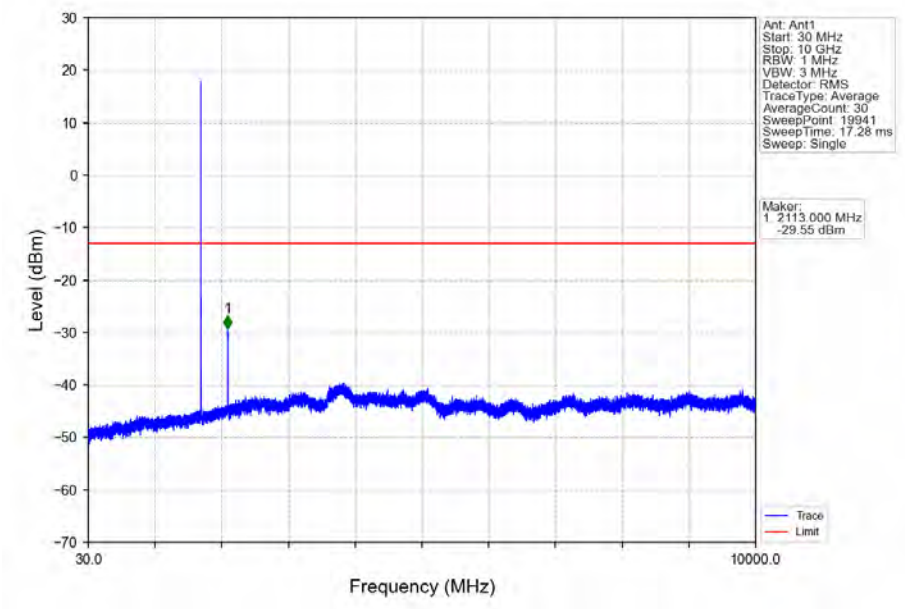

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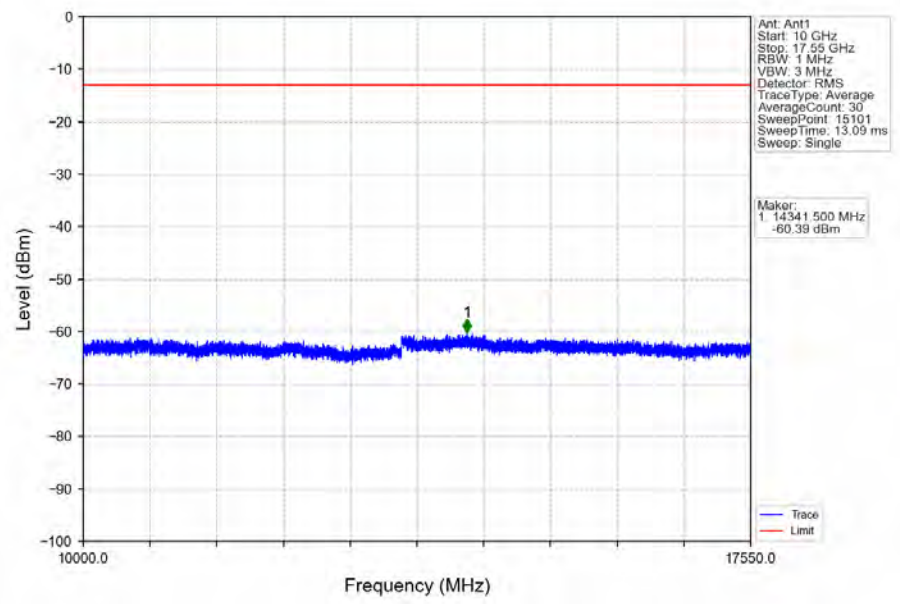

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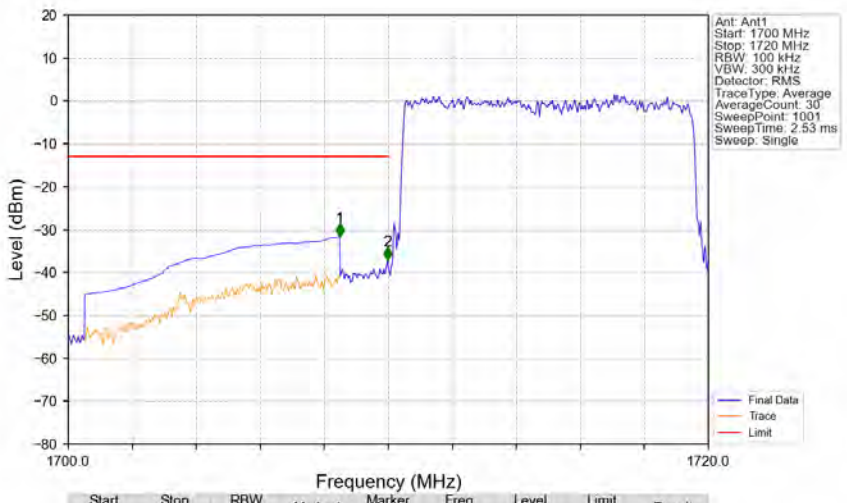

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.480	-31.63	-13	Pass
1709	1710	0.1	/	2	1709.980	-37.14	-13	Pass
1710	1720	0.1	/	/	/	/	/	/

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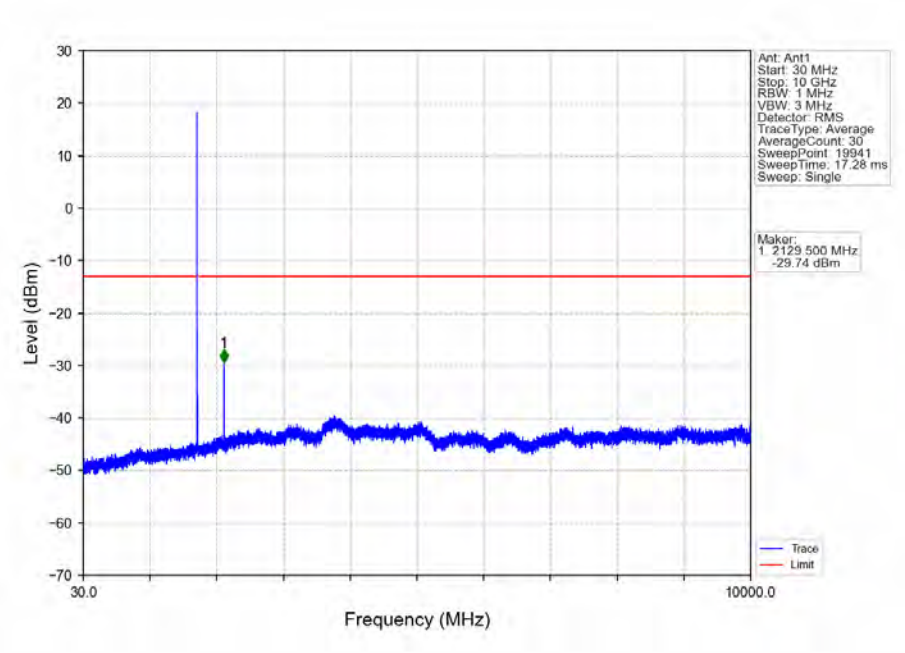

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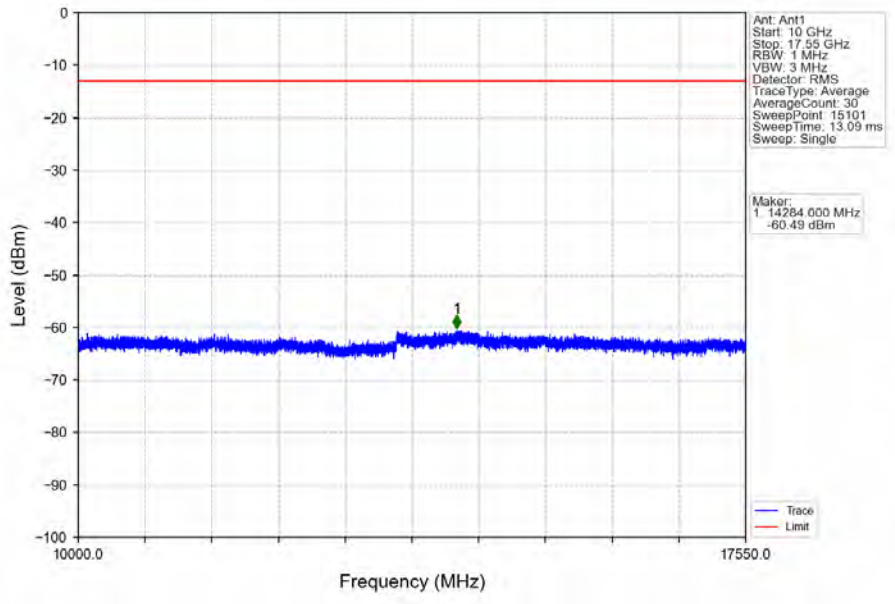

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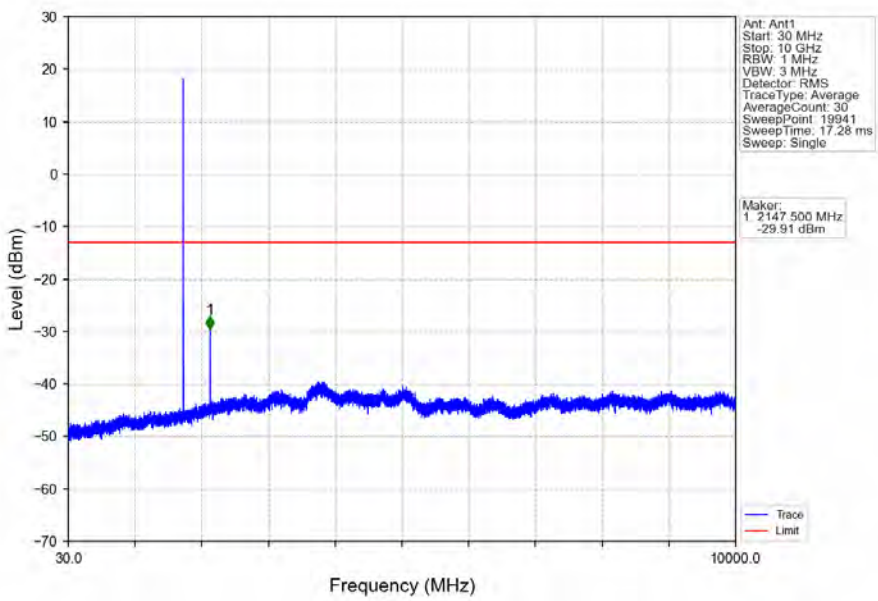

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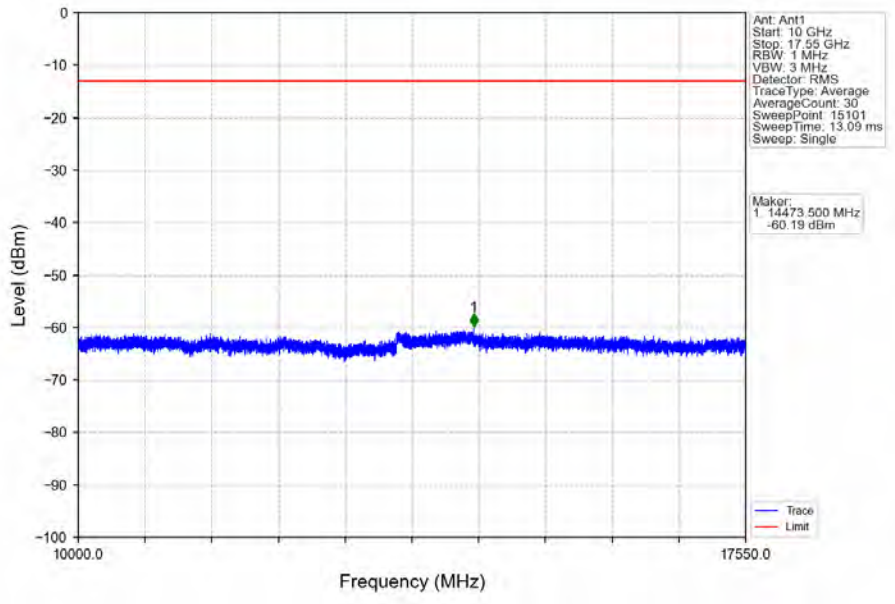

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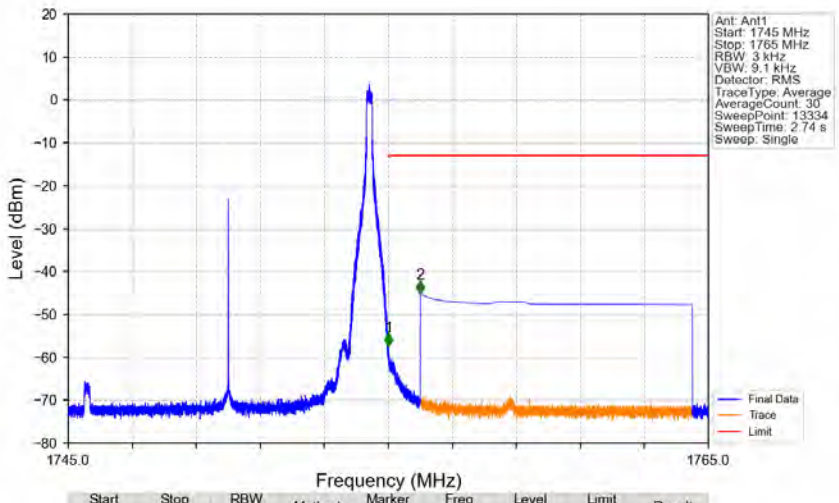
Band4_10MHz_256QAM_HCH_1750MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.005	-57.44	-13	Pass
1756	1765	1	CHP	2	1756.001	-45.17	-13	Pass

Band4_10MHz_256QAM_HCH_1750MHz_RB_50_0_NTNV

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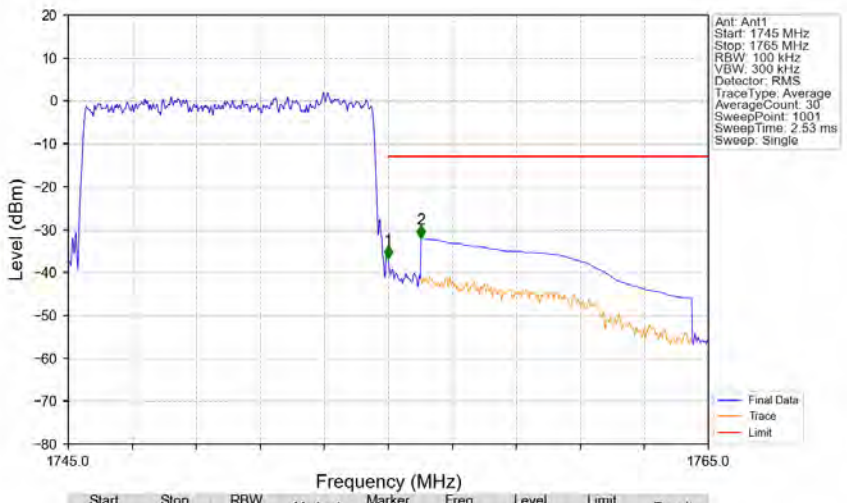

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.1	/	/	/	/	/	/
1755	1756	0.1	/	1	1755.000	-36.82	-13	Pass
1756	1765	1	CHP	2	1756.020	-31.99	-13	Pass

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5.5 B4_15MHz

5.5.1 Test Result

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
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
64QAM	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
256QAM	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

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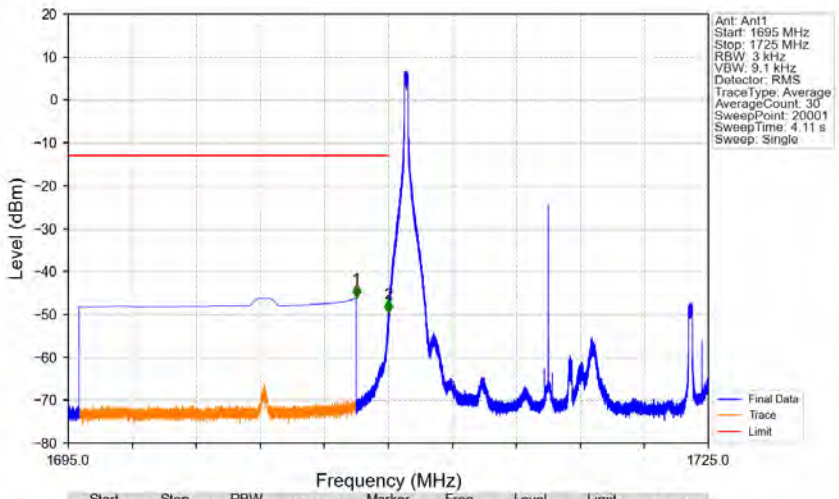
5.5.2 Test Graph

Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.497	-46.11	-13	Pass
1709	1710	0.003	/	2	1709.994	-49.71	-13	Pass
1710	1725	0.003	/	/	/	/	/	/

Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV

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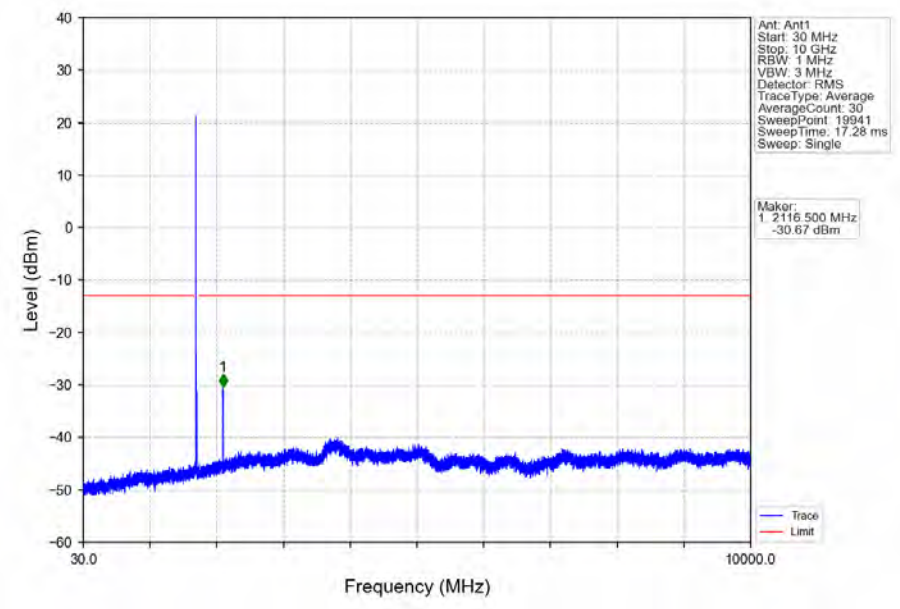

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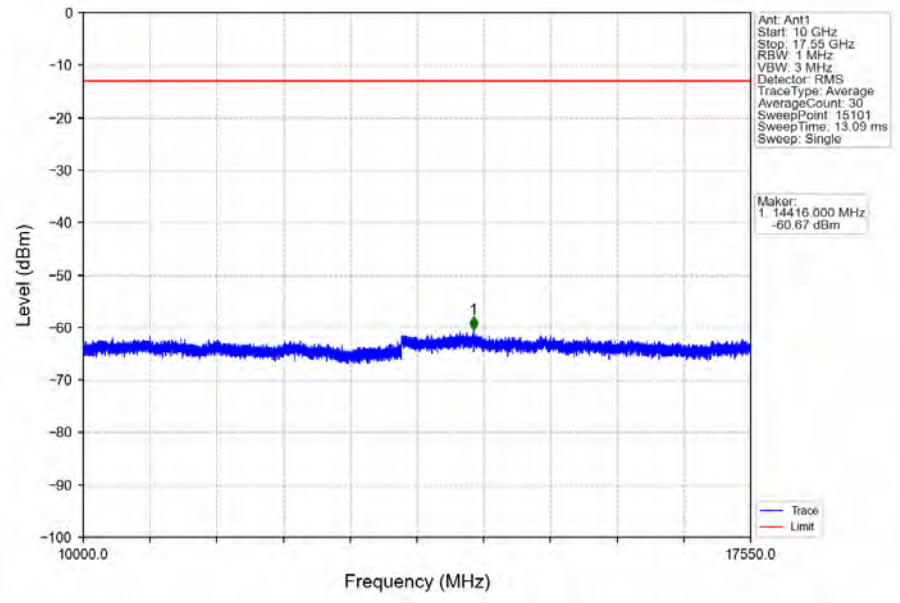

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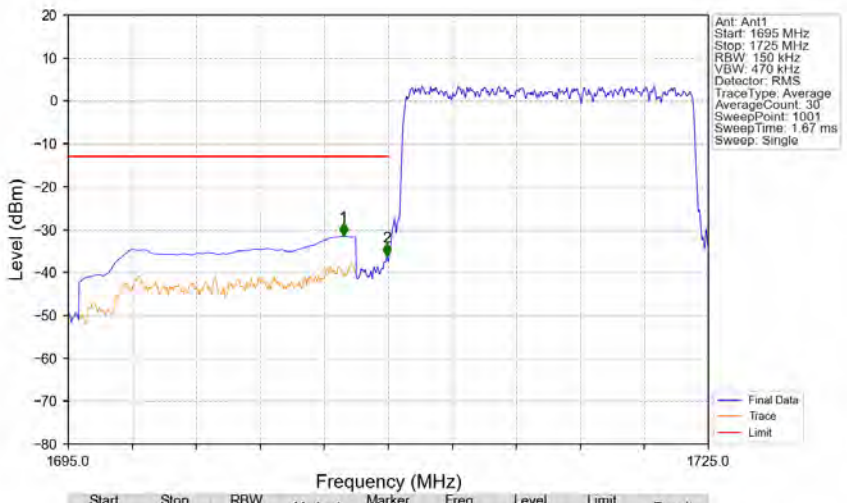

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1707.900	-31.52	-13	Pass
1709	1710	0.15	/	2	1709.940	-36.25	-13	Pass
1710	1725	0.15	/	/	/	/	/	/

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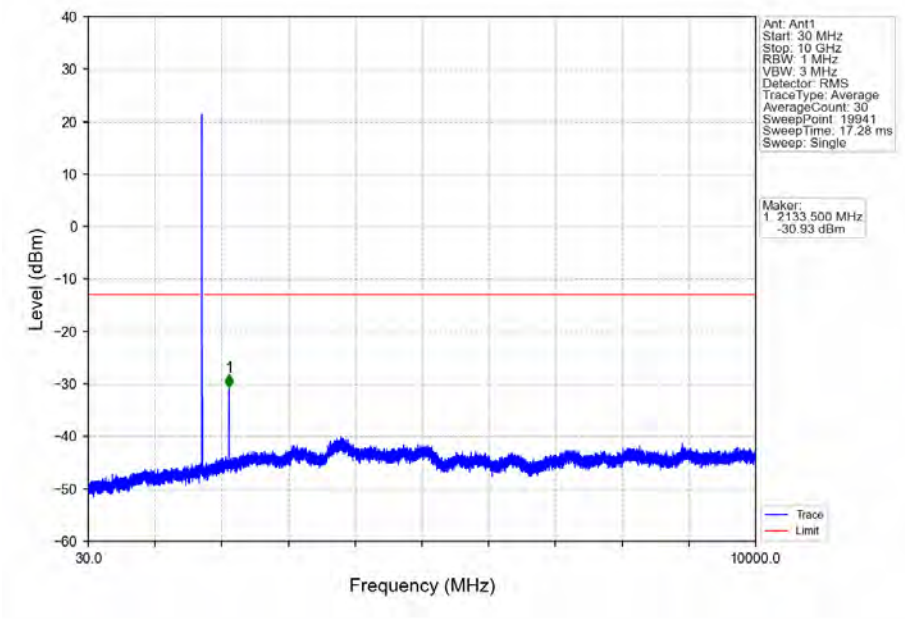

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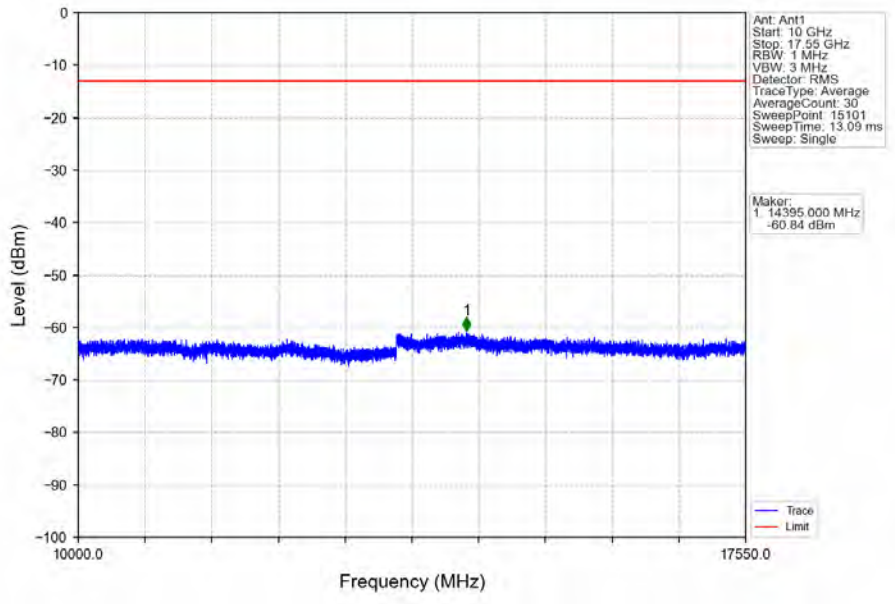

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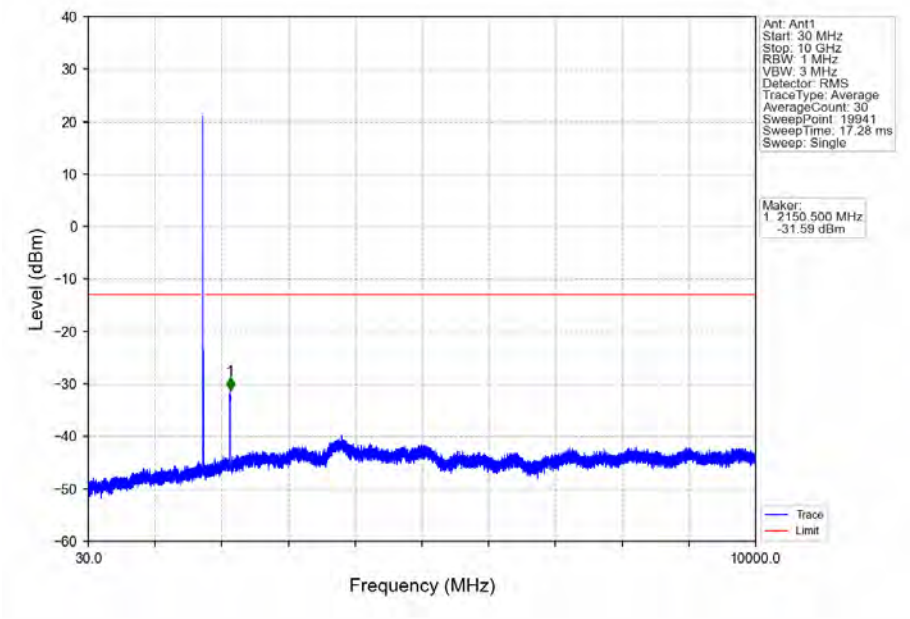

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