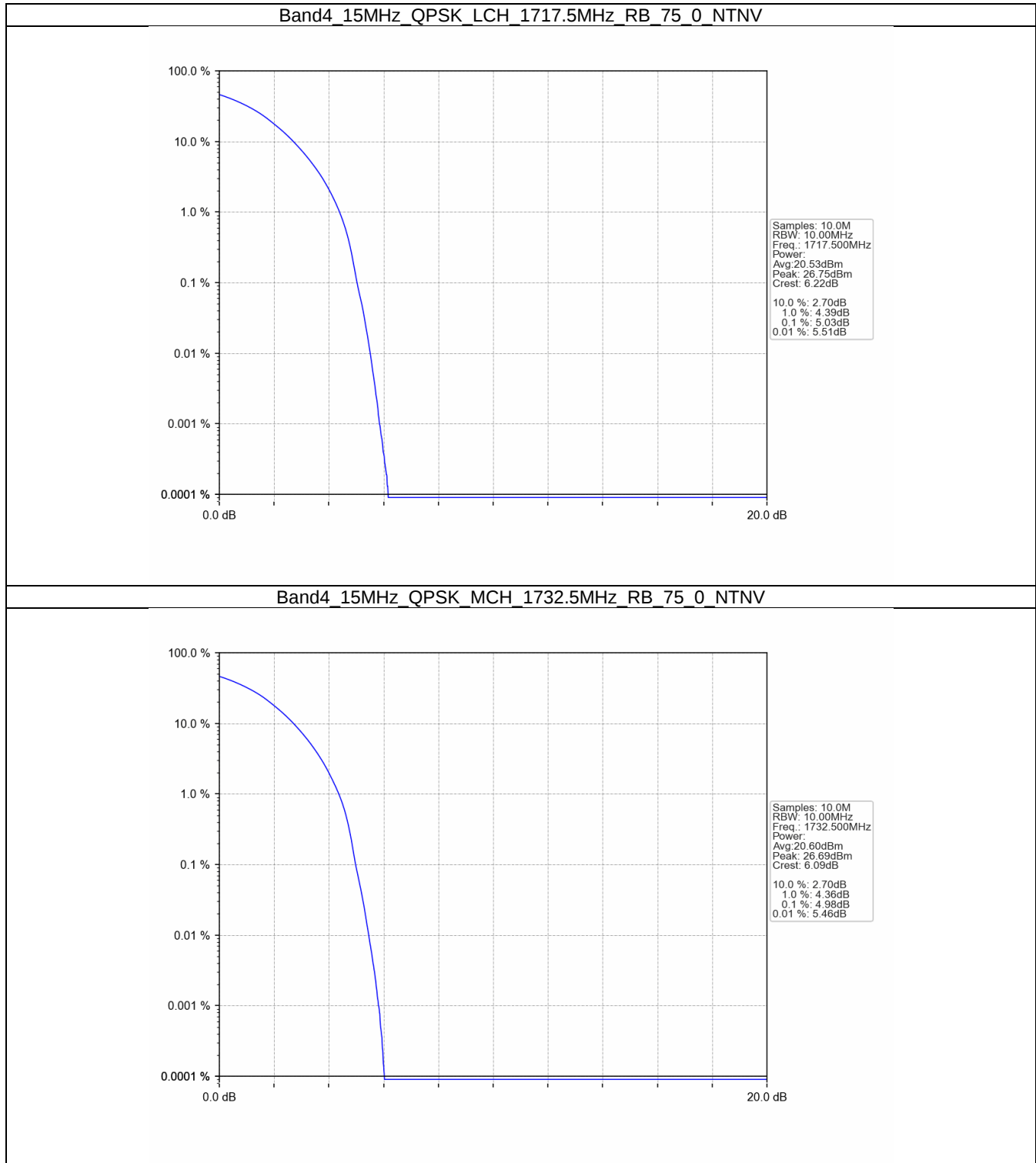
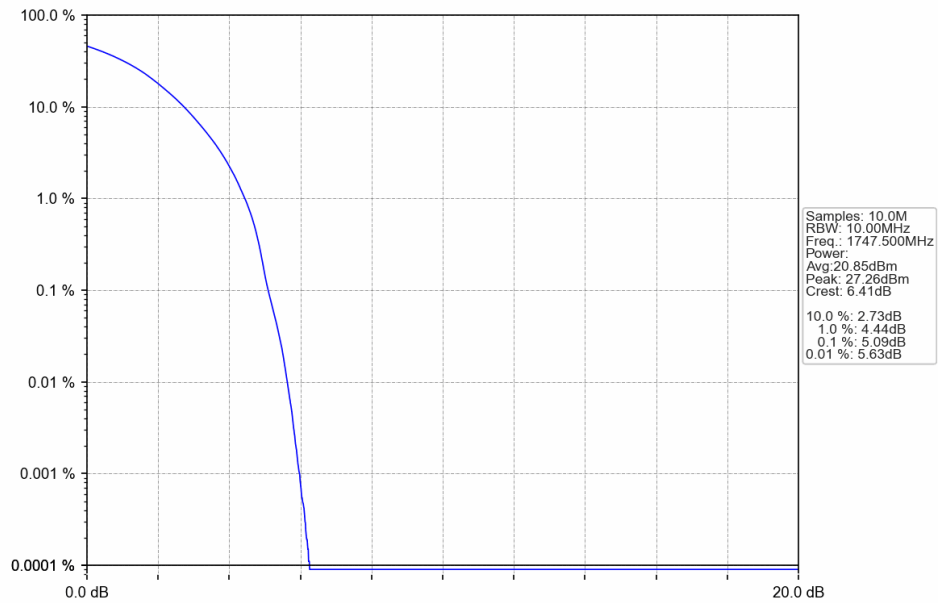


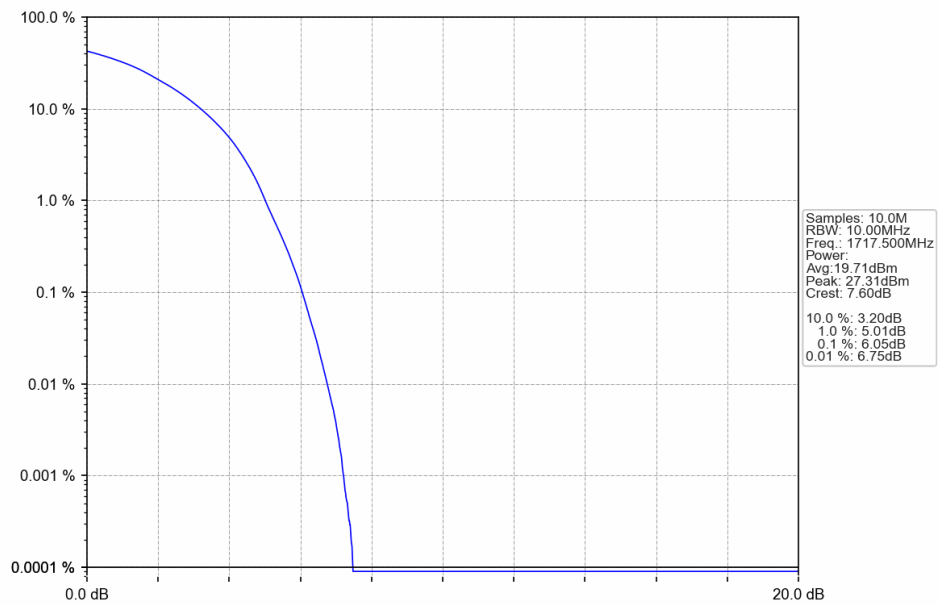
5.5.2 Test Graph



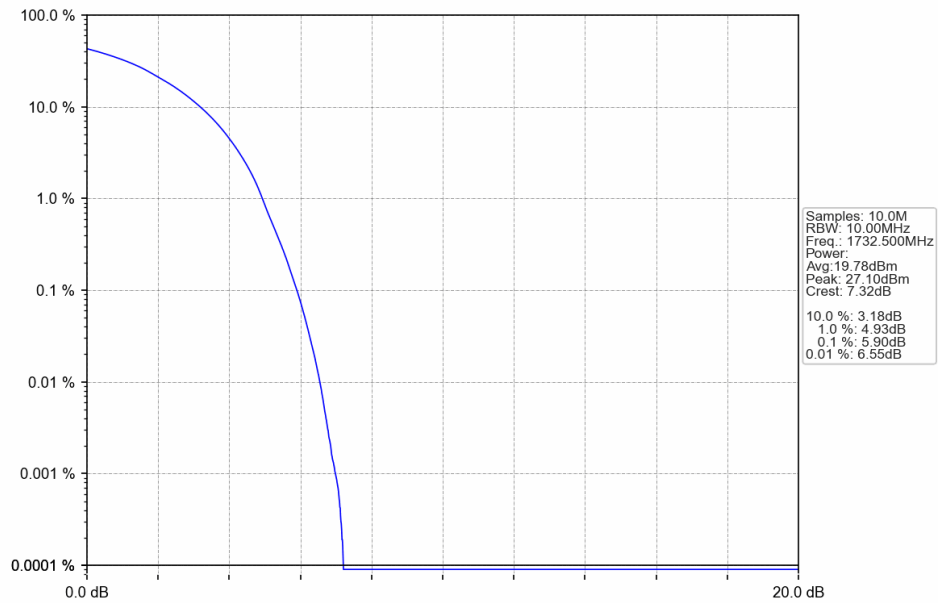
Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTNV



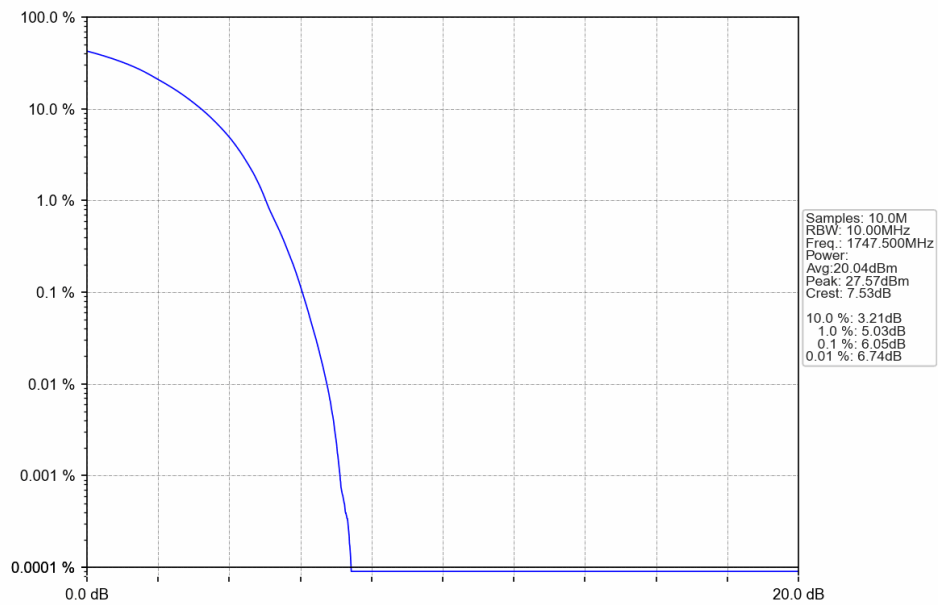
Band4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTNV



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



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

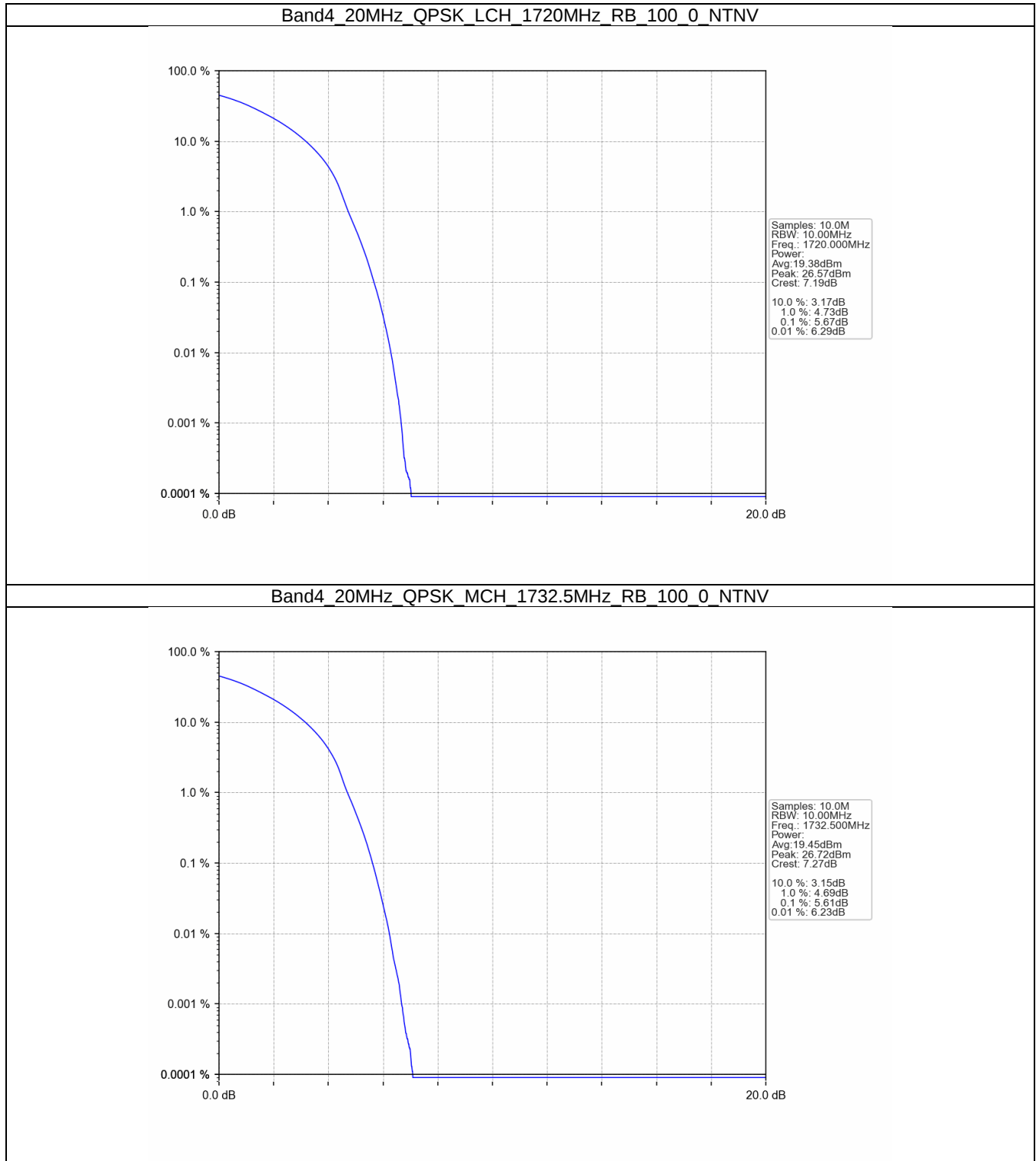


5.6 B4_20MHz

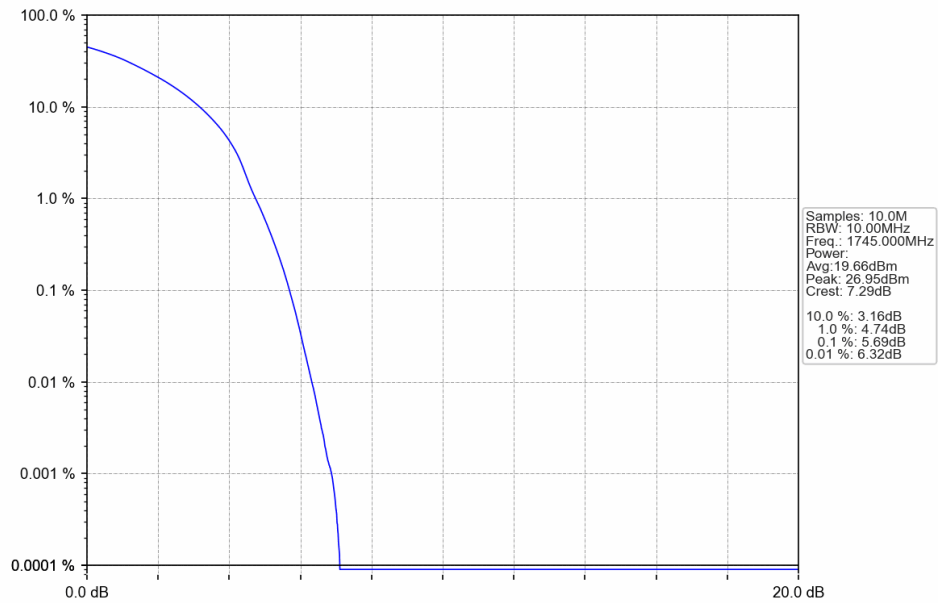
5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.67	<=13	Pass
	1732.5	100	0	5.61	<=13	Pass
	1745	100	0	5.69	<=13	Pass
16QAM	1720	100	0	6.53	<=13	Pass
	1732.5	100	0	6.55	<=13	Pass
	1745	100	0	6.60	<=13	Pass

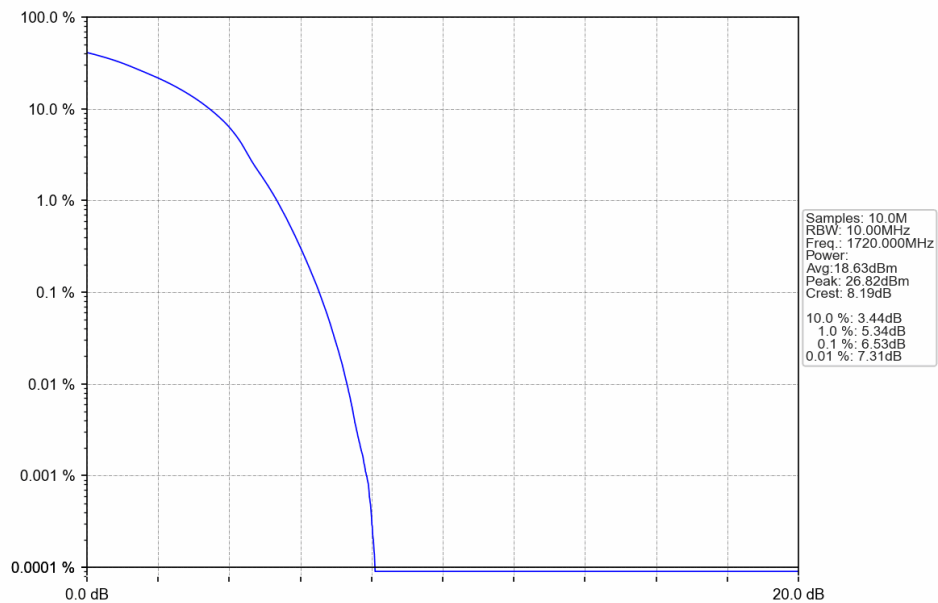
5.6.2 Test Graph



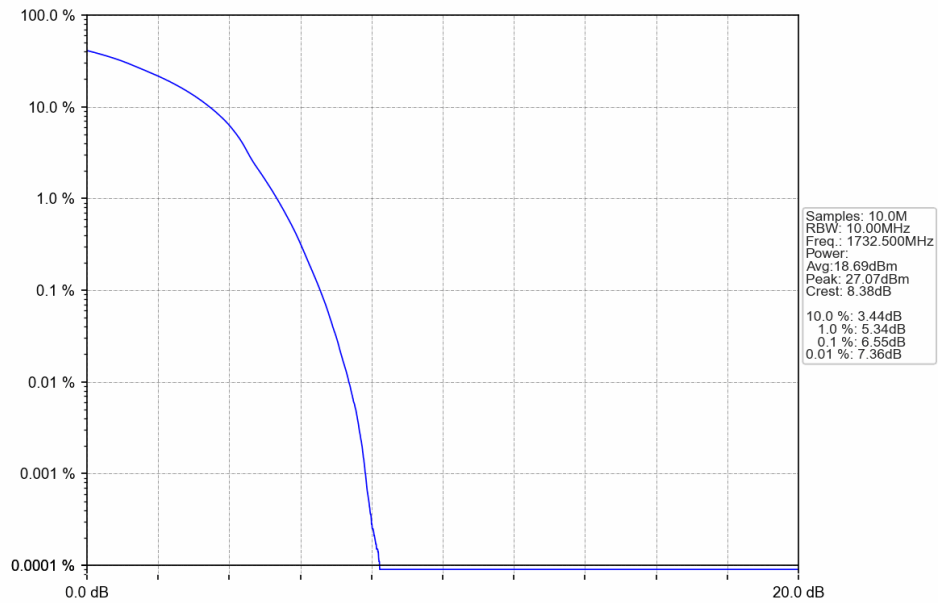
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



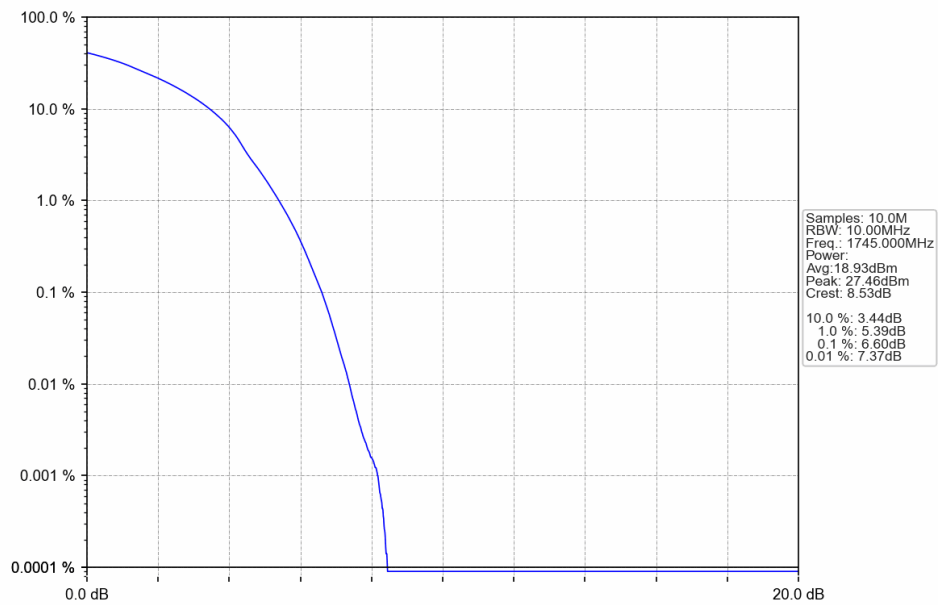
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



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



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



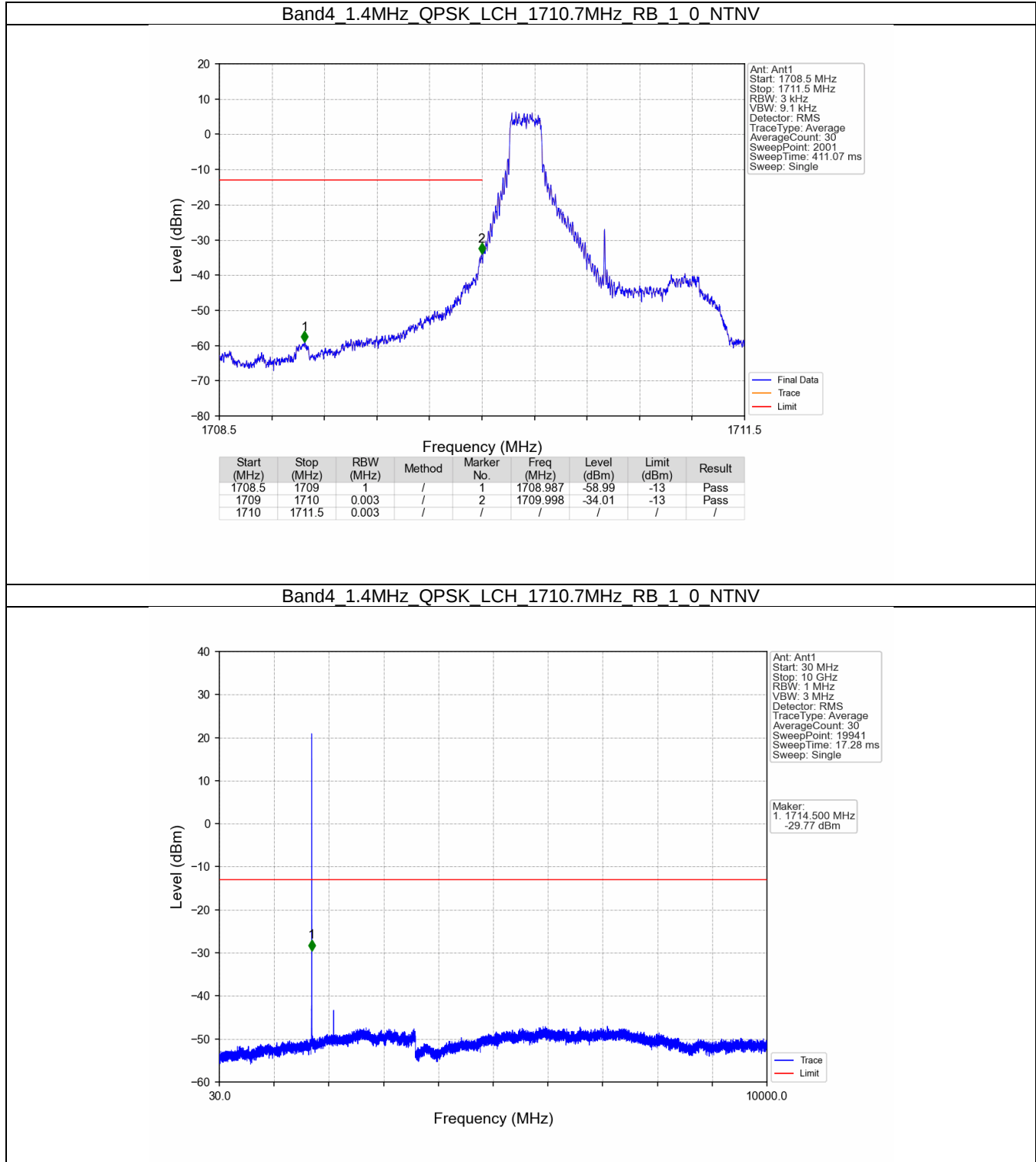
6. Spurious Emission

6.1 B4_1.4MHz

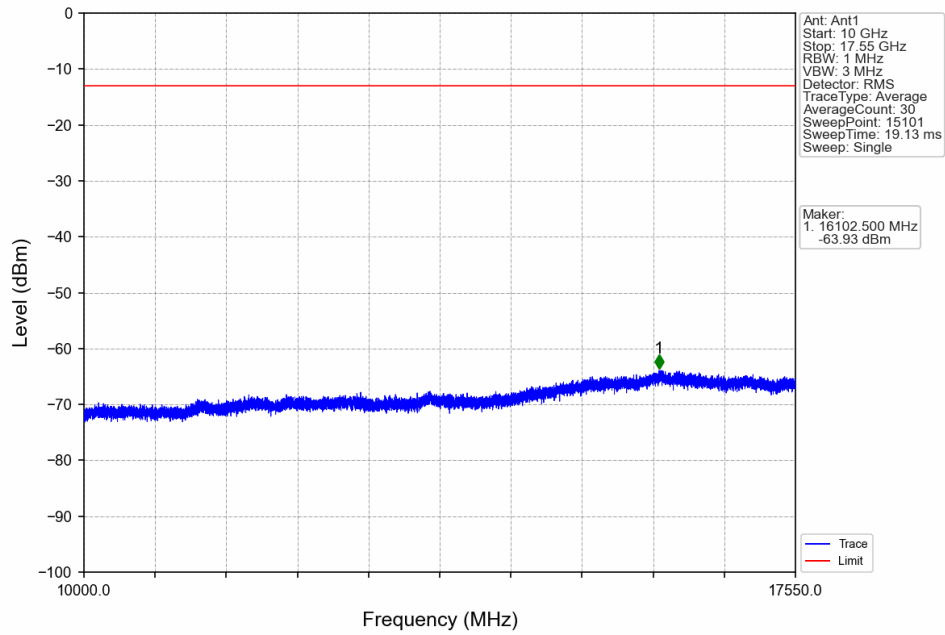
6.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

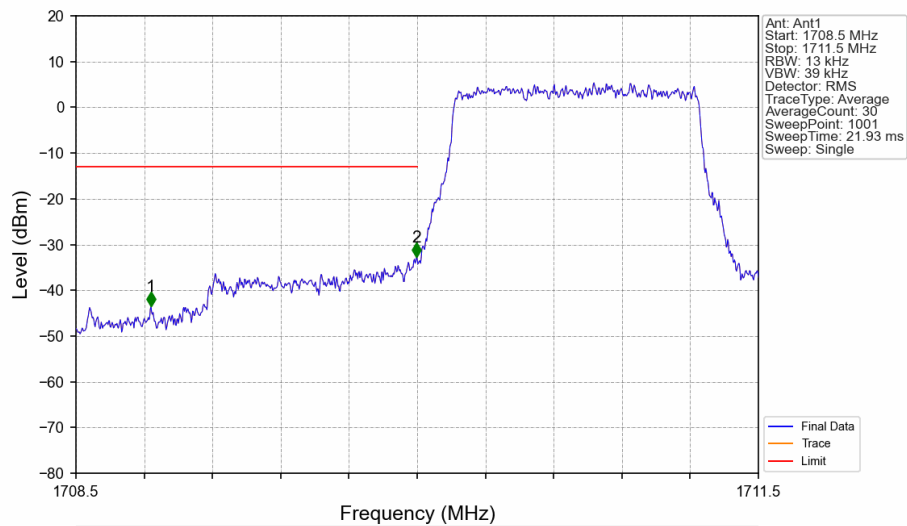
6.1.2 Test Graph



Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTV

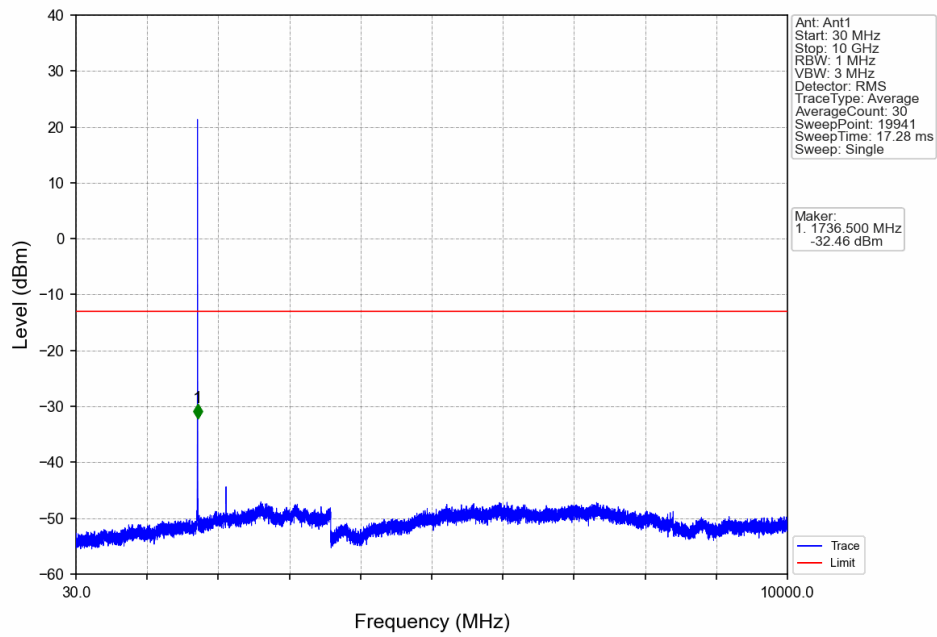


Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTV

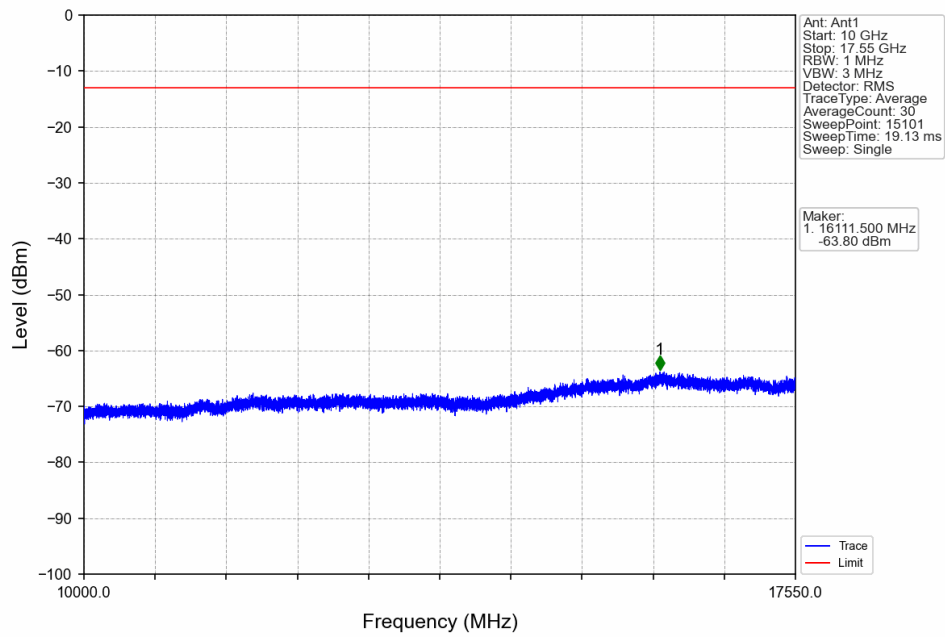


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.830	-43.52	-13	Pass
1709	1710	0.013	/	2	1709.997	-32.73	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

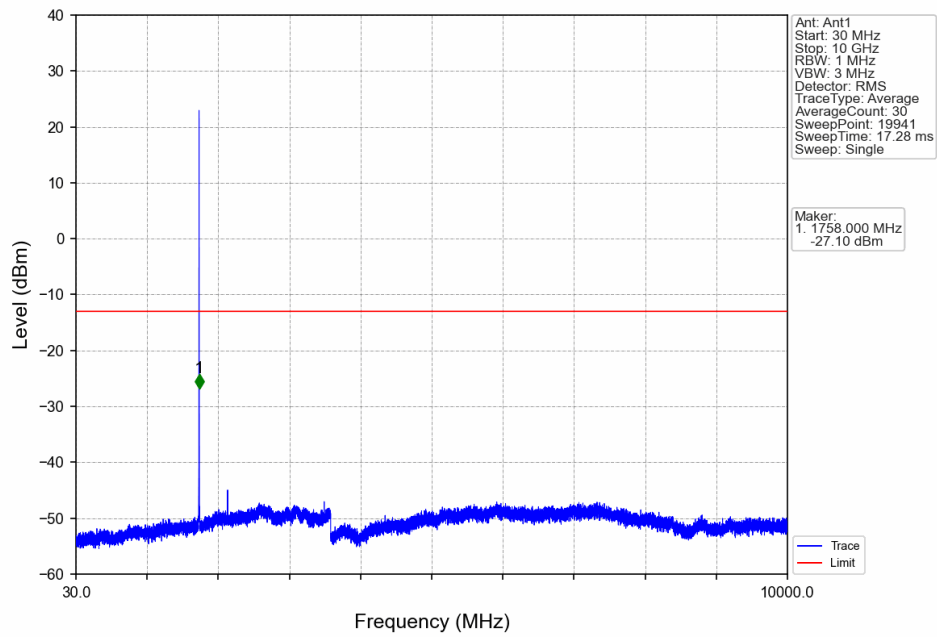
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



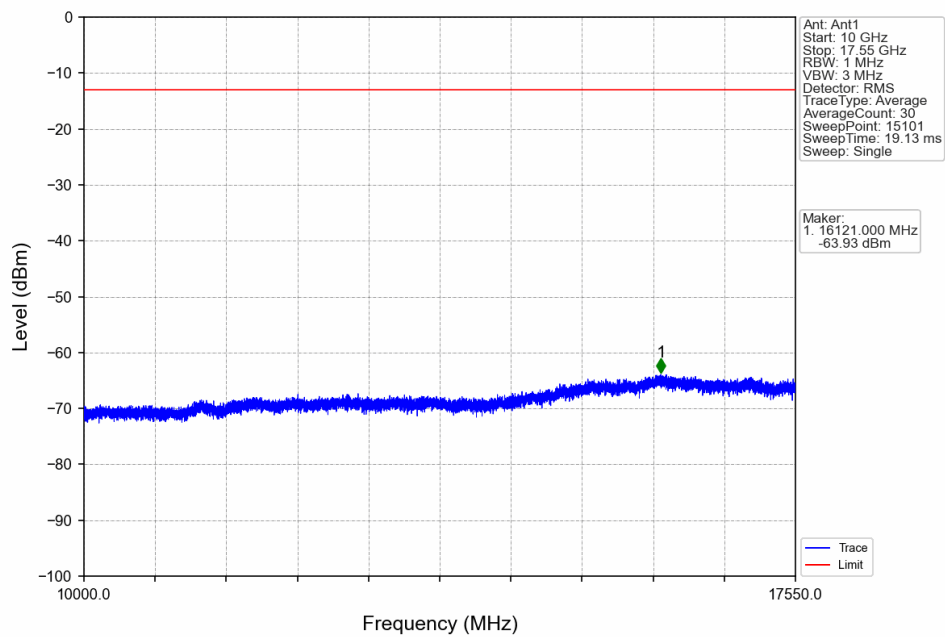
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



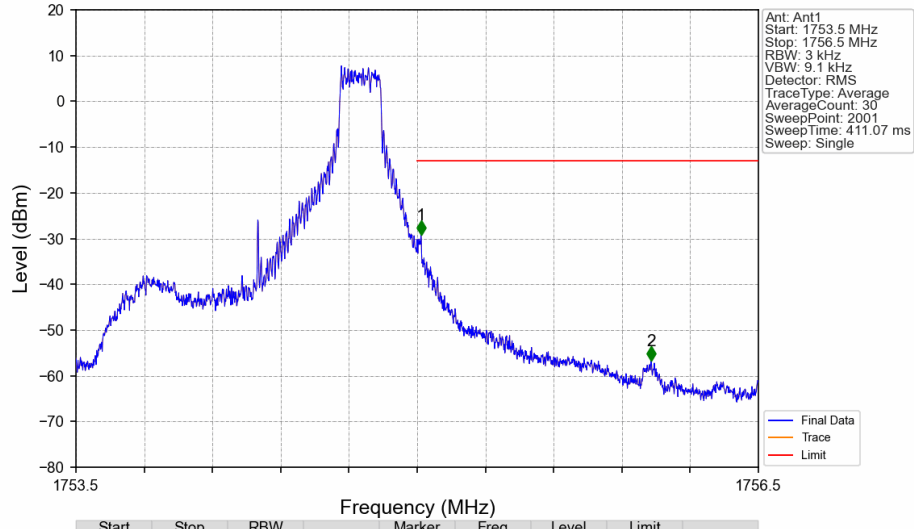
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTV



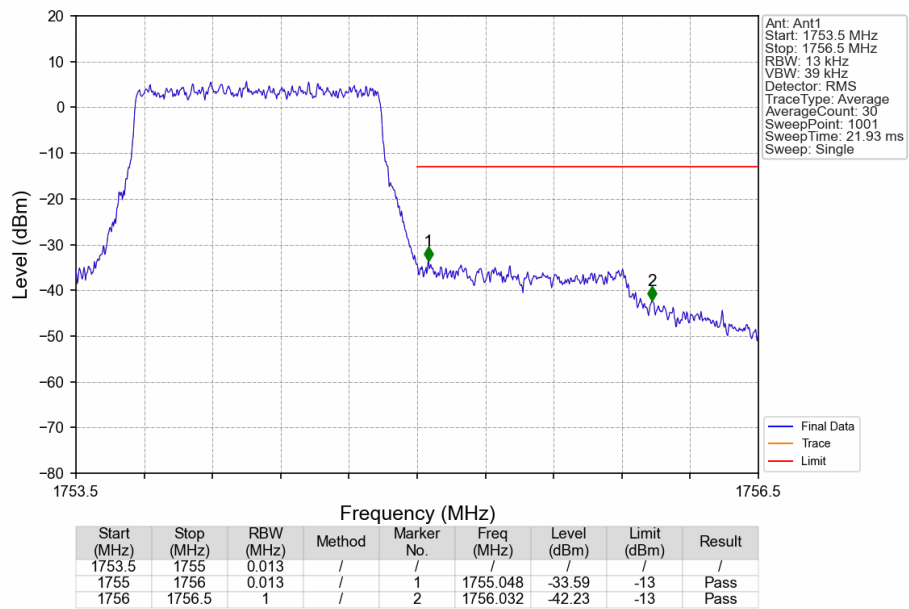
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTV



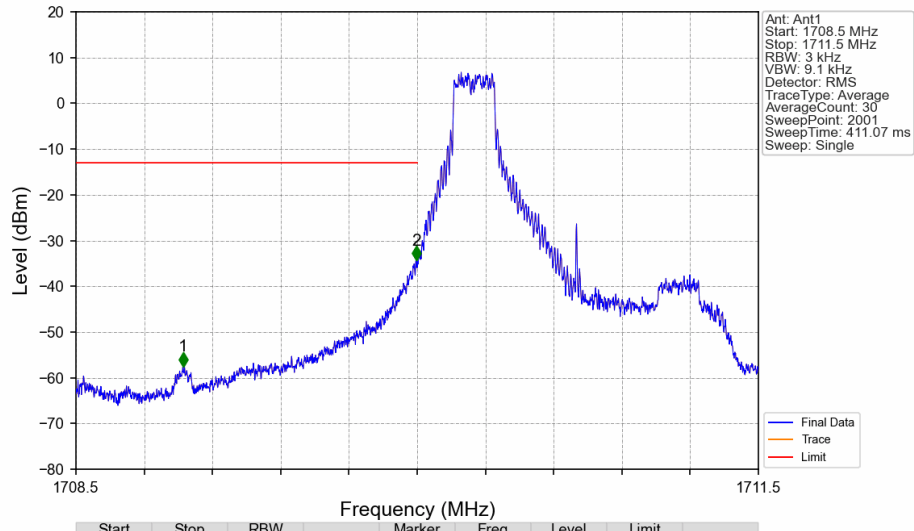
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 5 NTNV



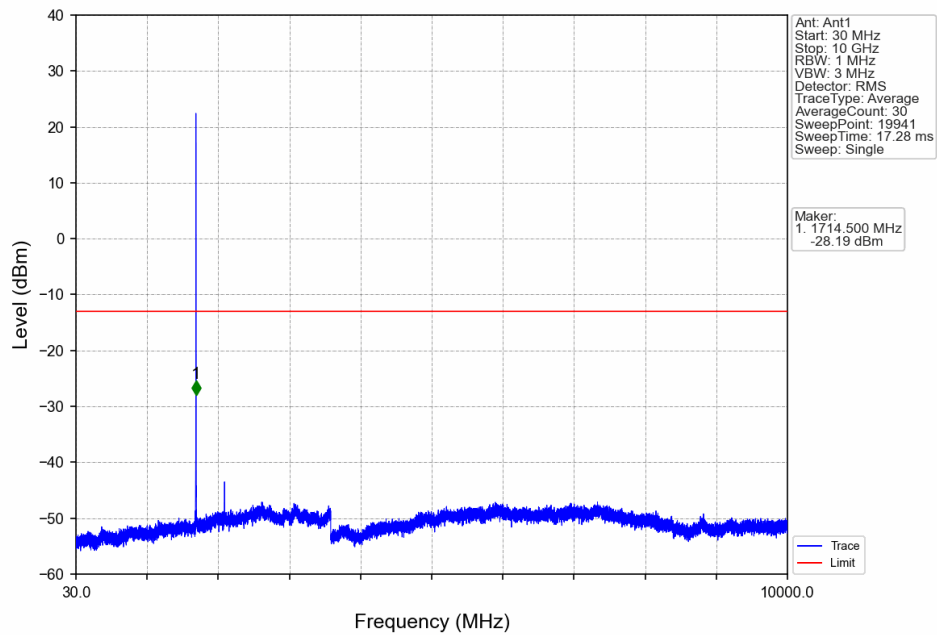
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



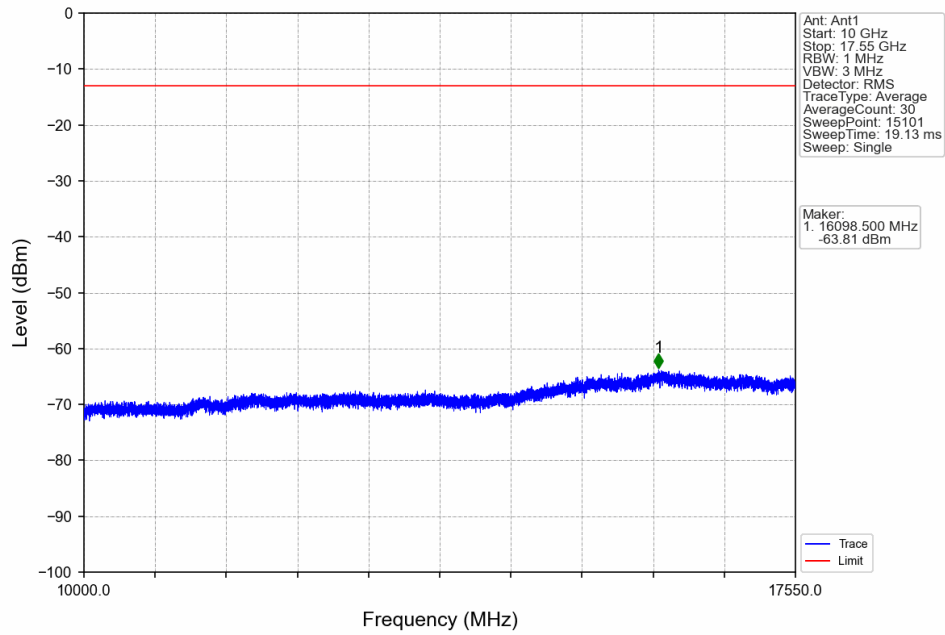
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTNV



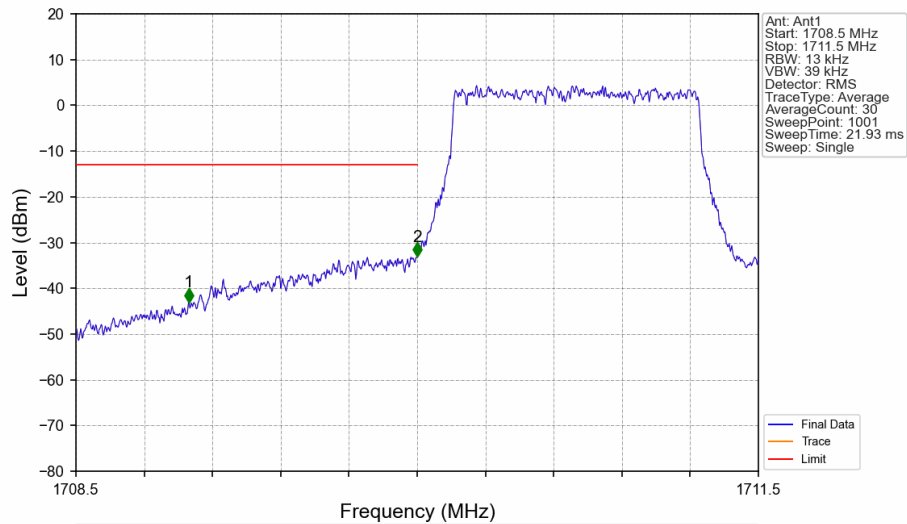
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTNV



Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTV

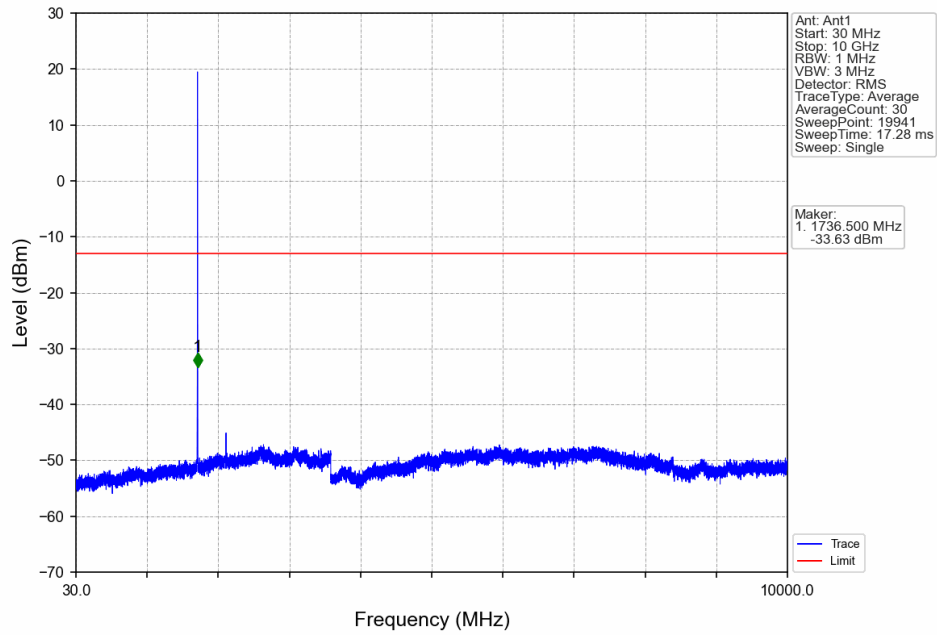


Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV

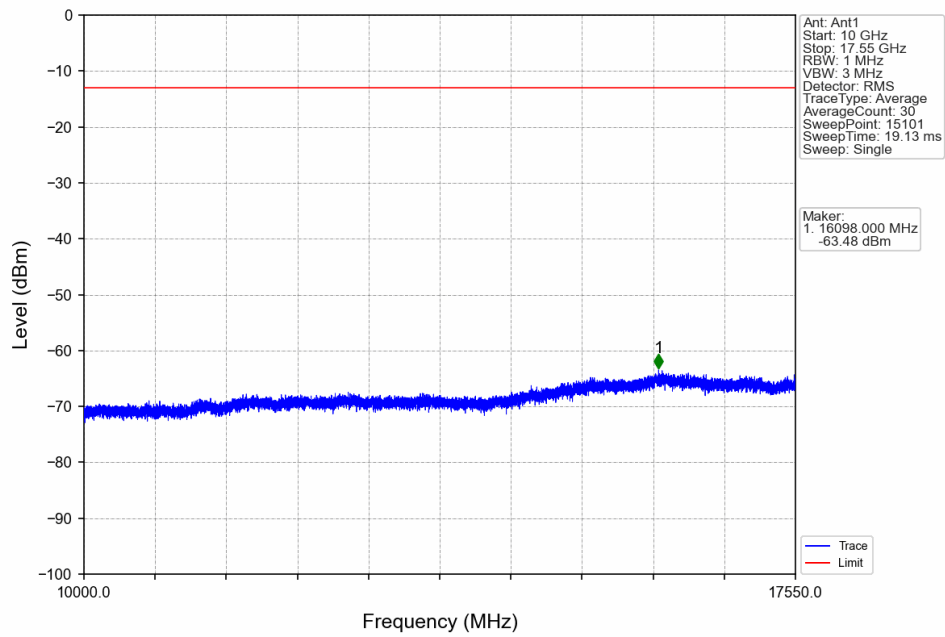


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.995	-43.05	-13	Pass
1709	1710	0.013	/	2	1710.000	-33.07	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

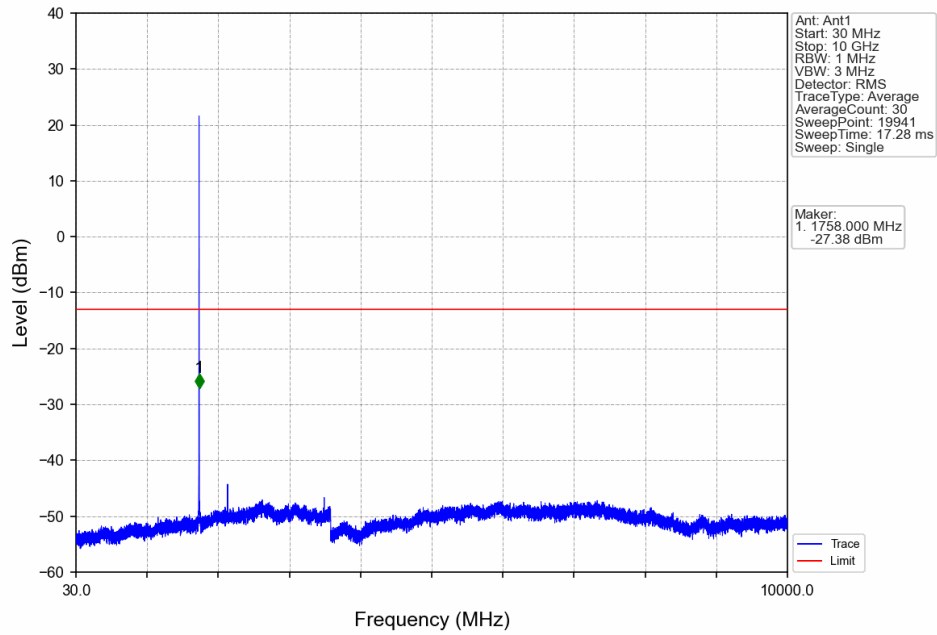
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



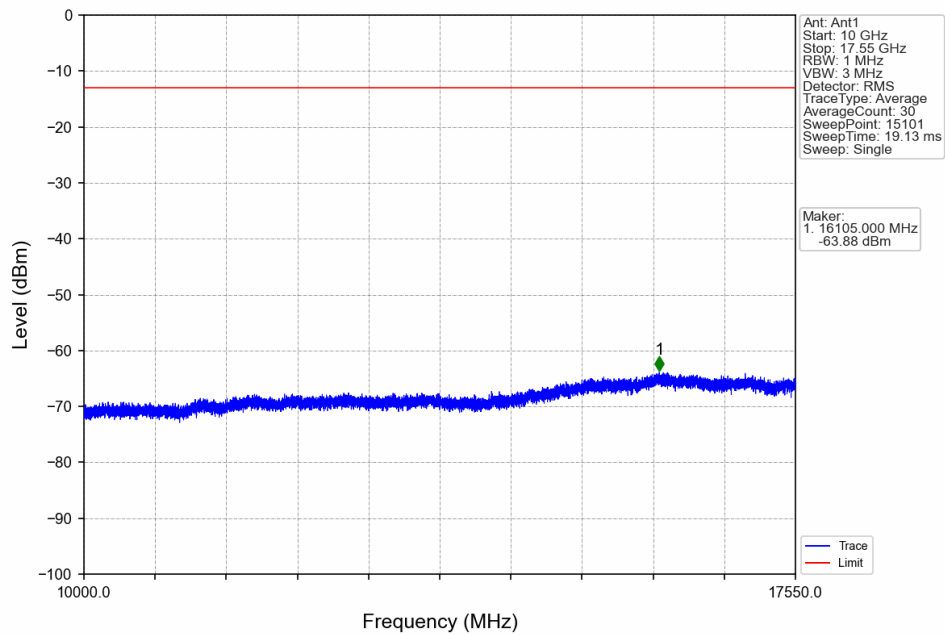
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



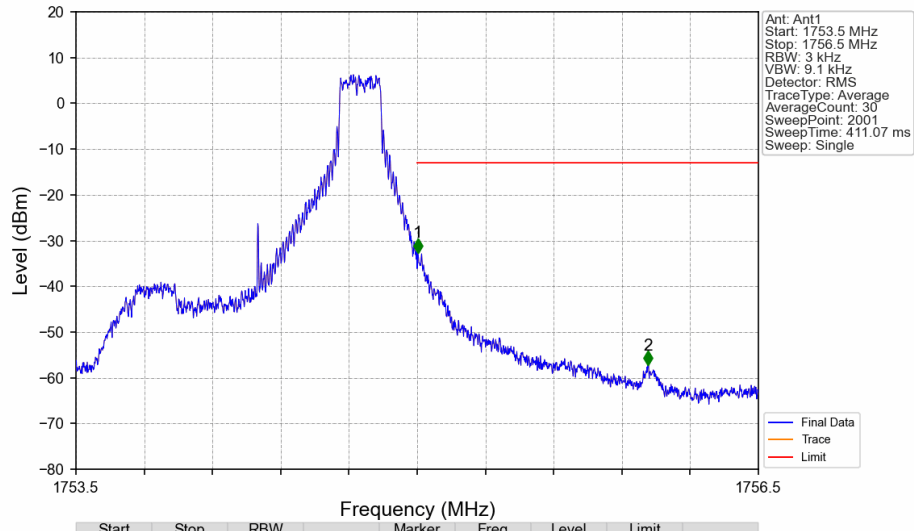
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTV



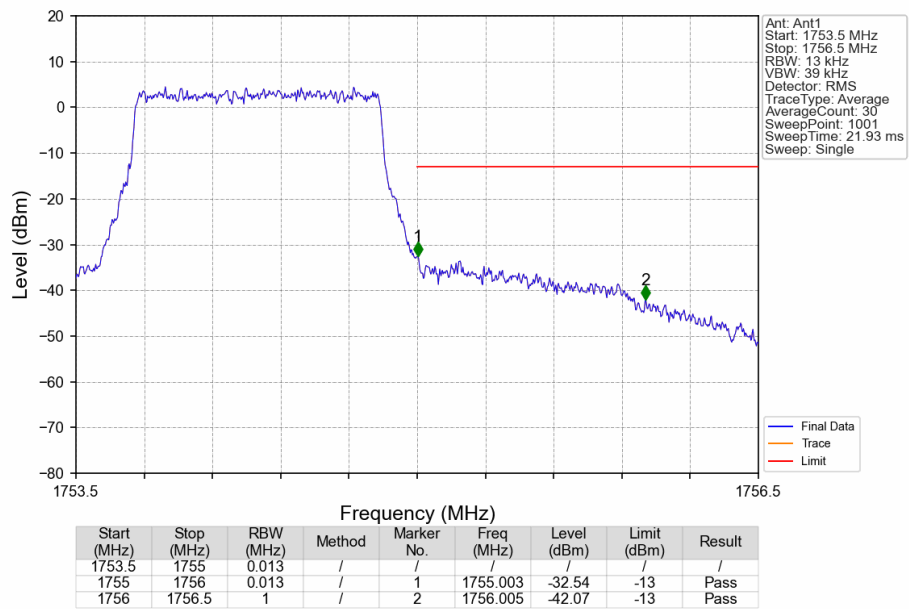
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTV



Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 5 NTNV



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

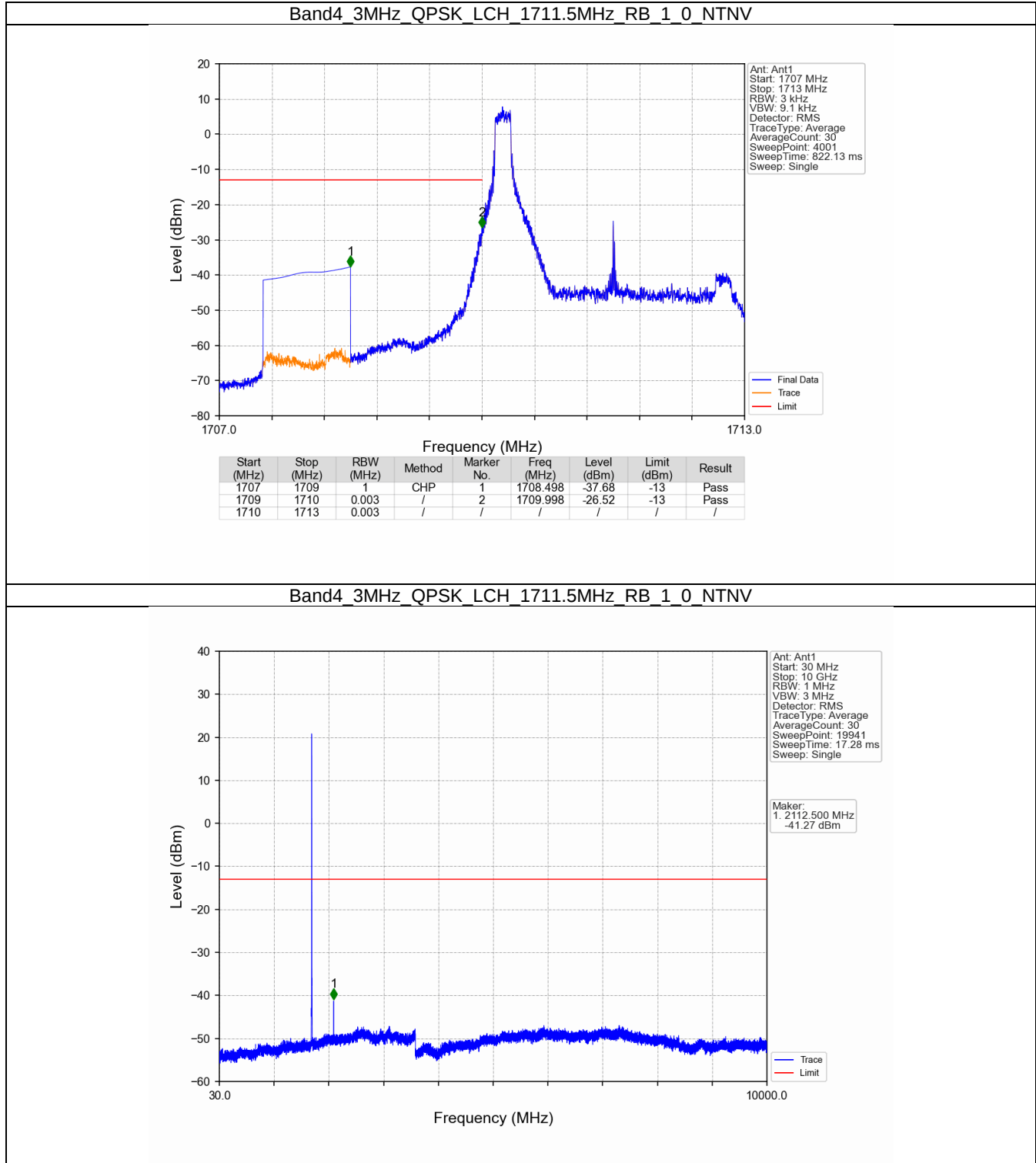


6.2 B4_3MHz

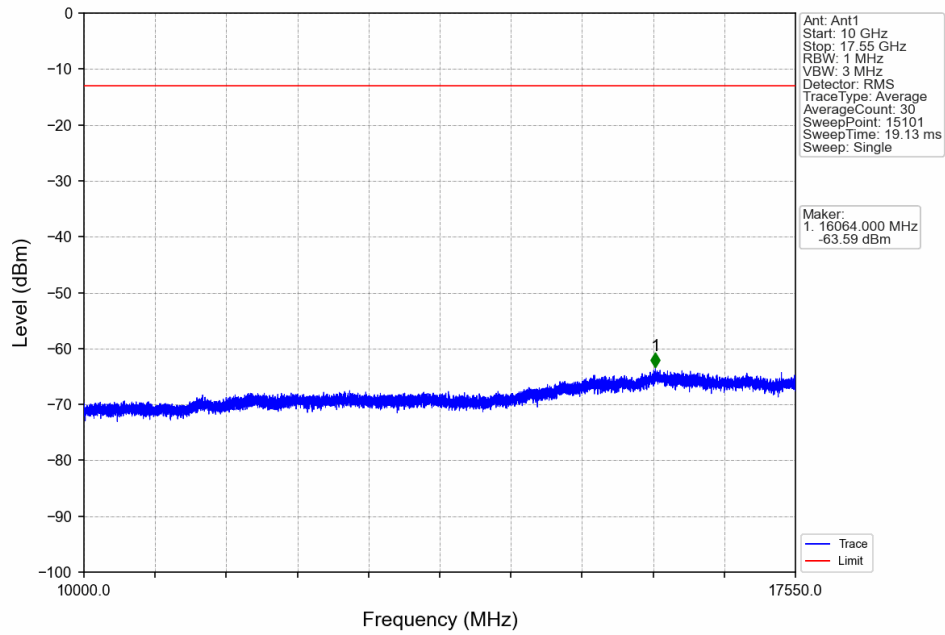
6.2.1 Test Result

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

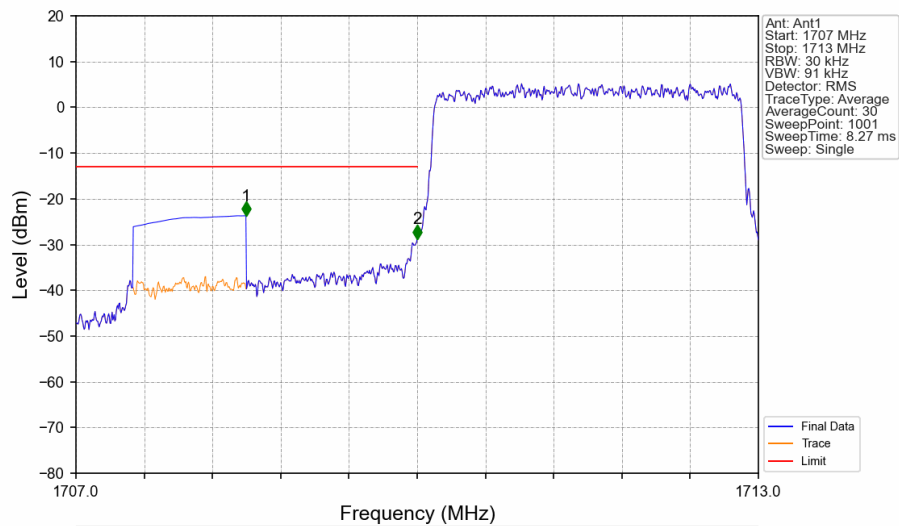
6.2.2 Test Graph



Band4 3MHz QPSK LCH 1711.5MHz RB 1 0 NTNV

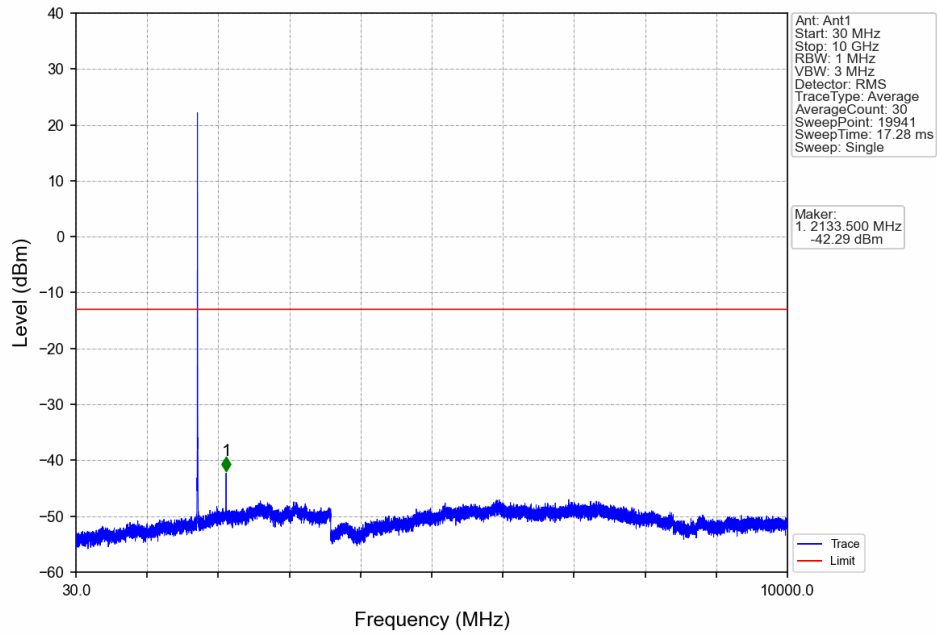


Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV

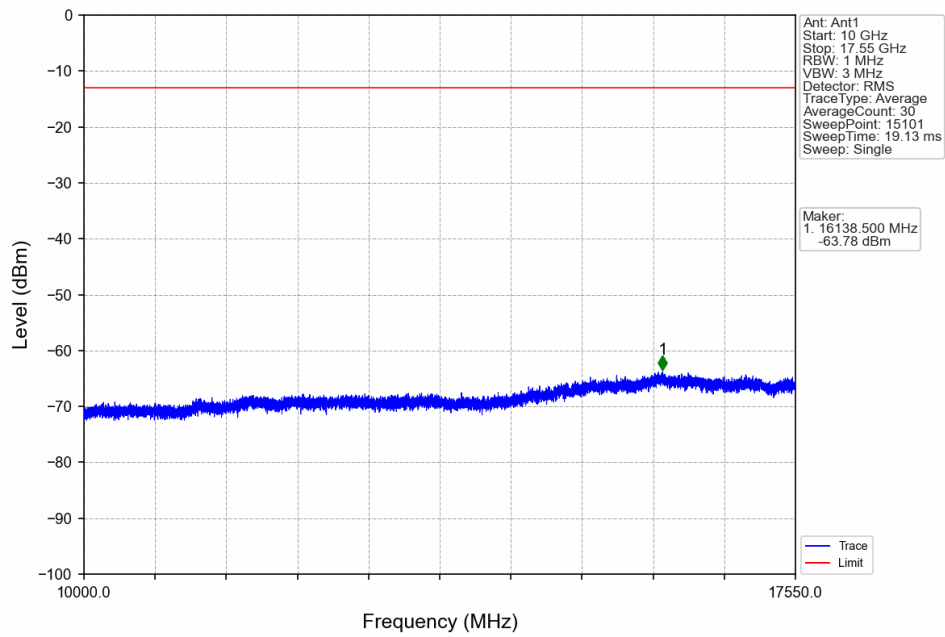


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-23.70	-13	Pass
1709	1710	0.03	/	2	1710.000	-28.76	-13	Pass
1710	1713	0.03	/	/	/	/	/	/

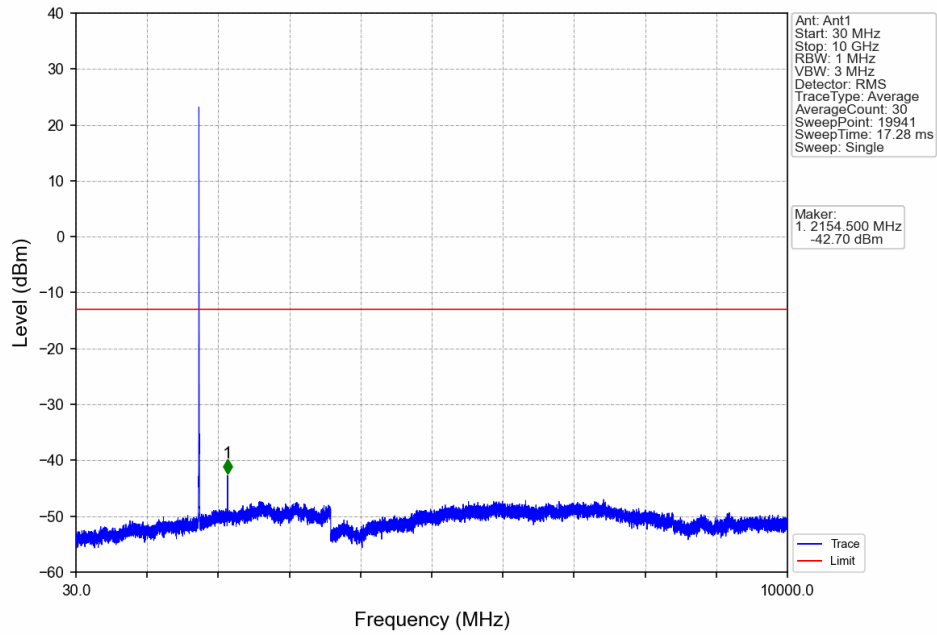
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTN



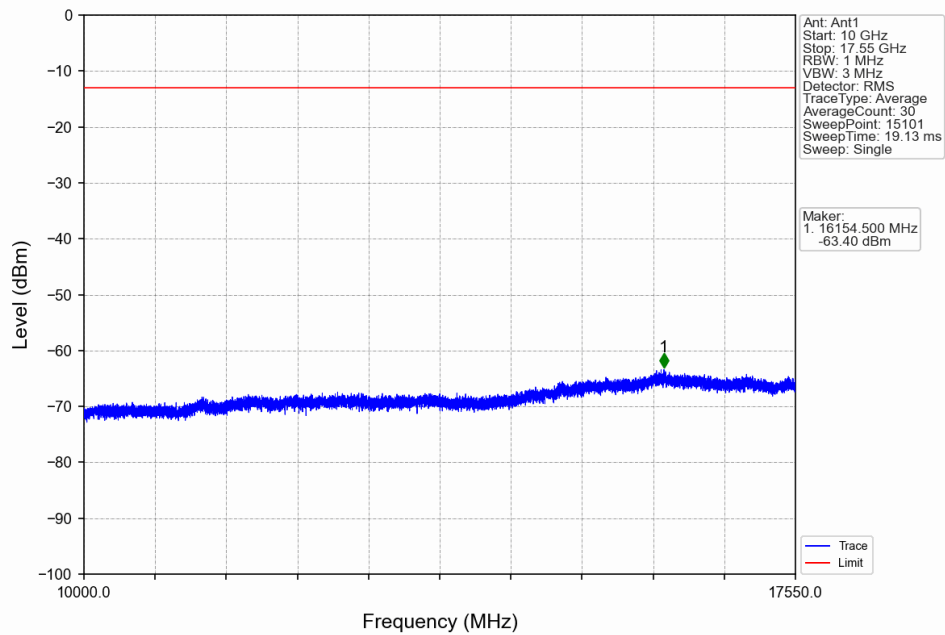
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTN



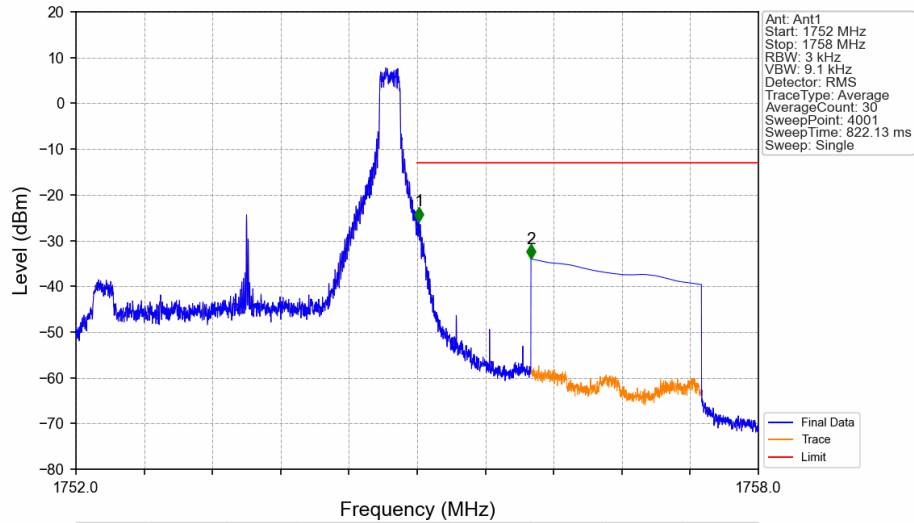
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTN



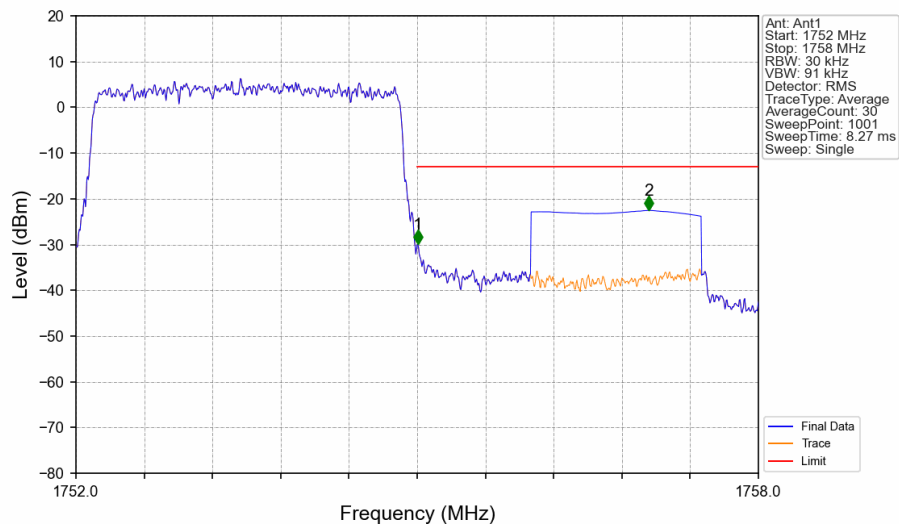
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTN



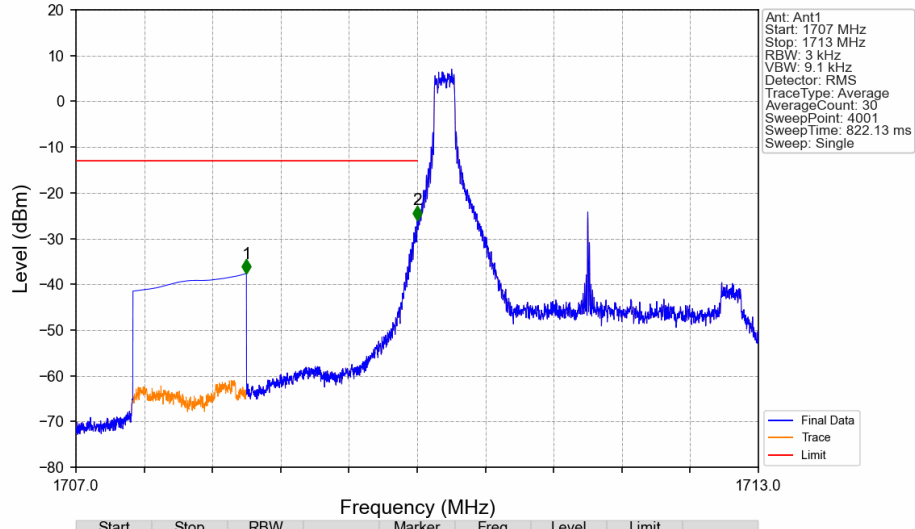
Band4 3MHz QPSK HCH 1753.5MHz RB 1 14 NTV



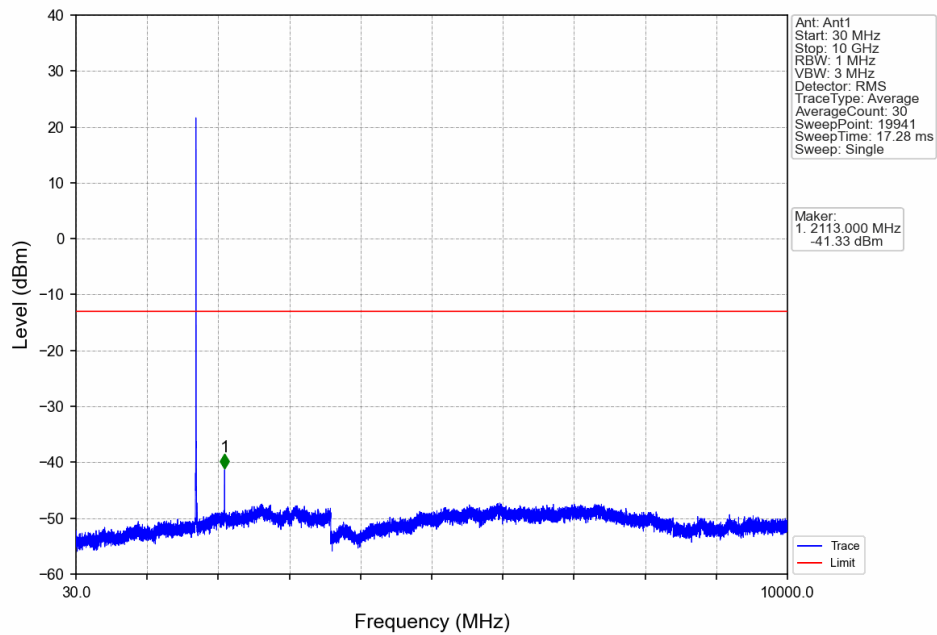
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



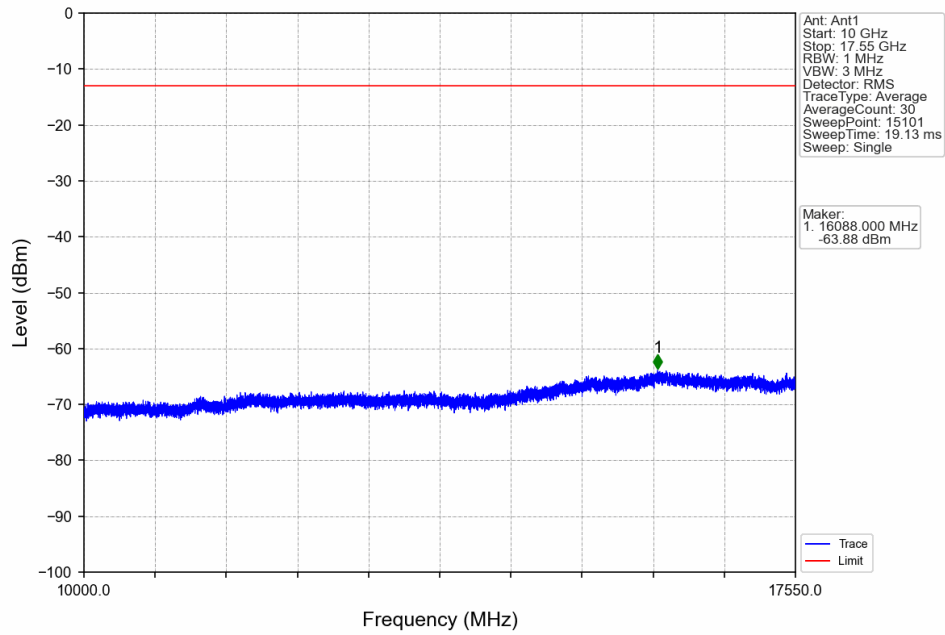
Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTNV



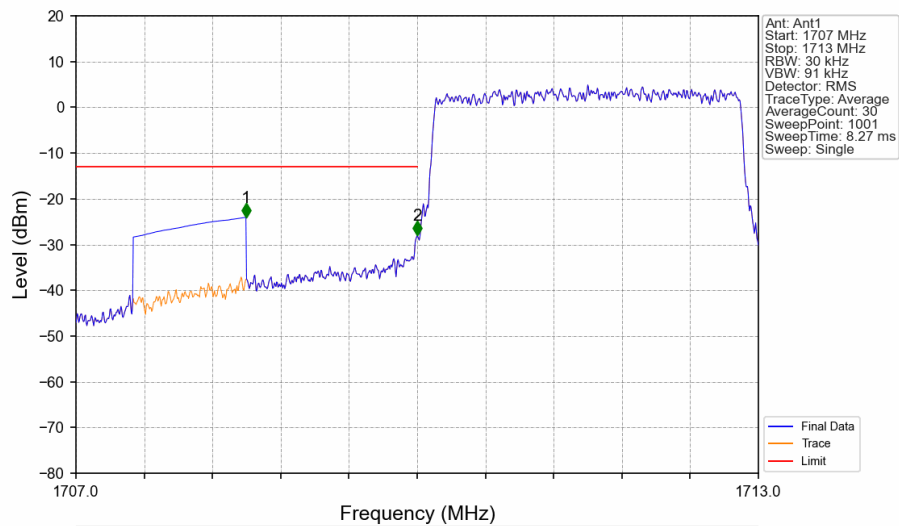
Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTNV



Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTNV

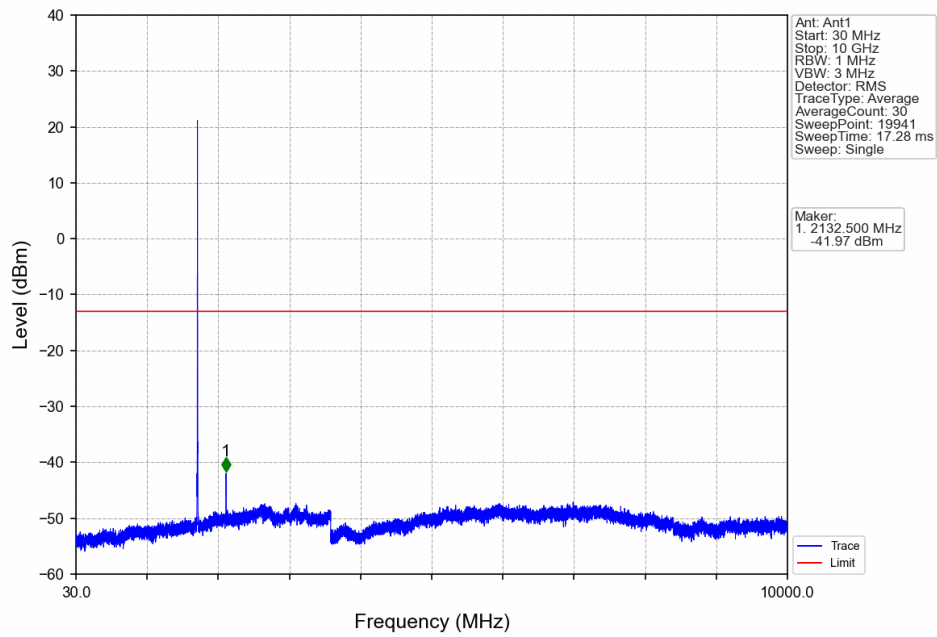


Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTNV

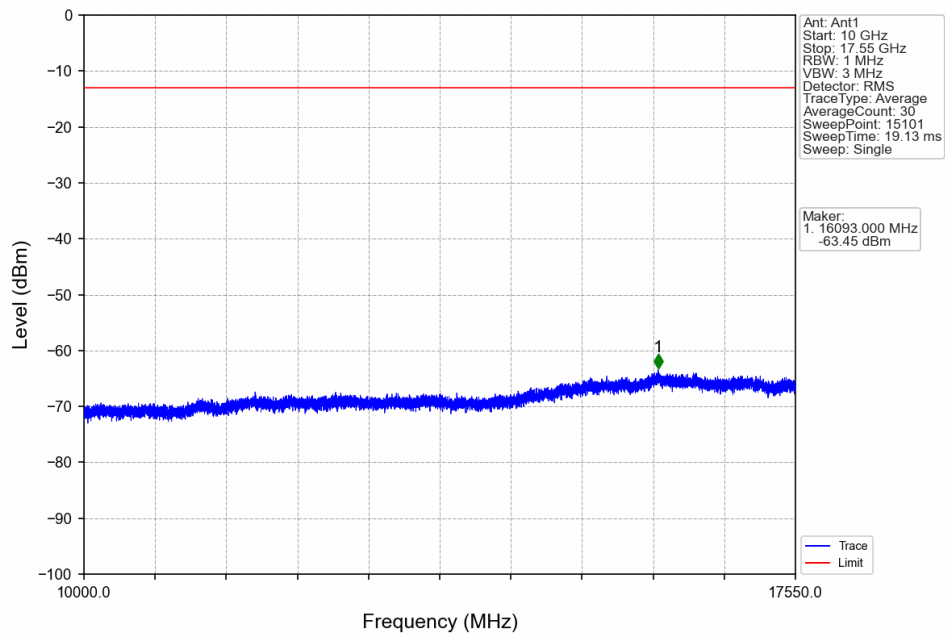


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-24.06	-13	Pass
1709	1710	0.03	/	2	1710.000	-28.04	-13	Pass
1710	1713	0.03	/	/	/	/	/	/

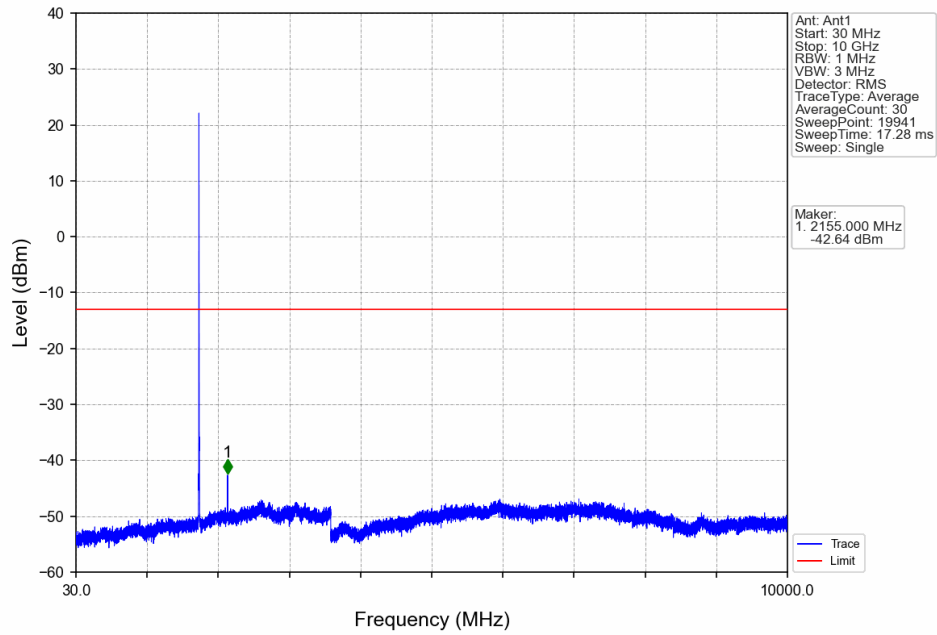
Band4 3MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



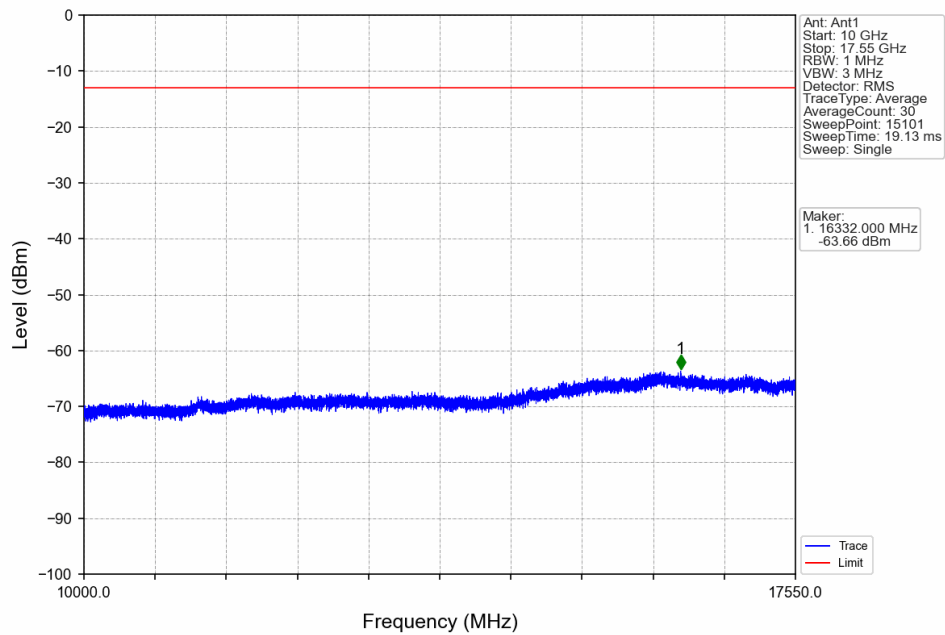
Band4 3MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



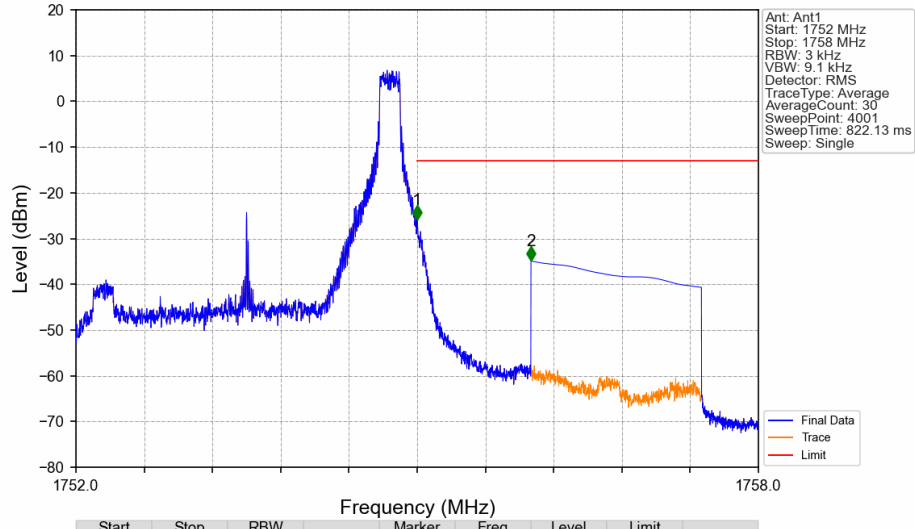
Band4 3MHz 16QAM HCH 1753.5MHz RB 1 0 NTV



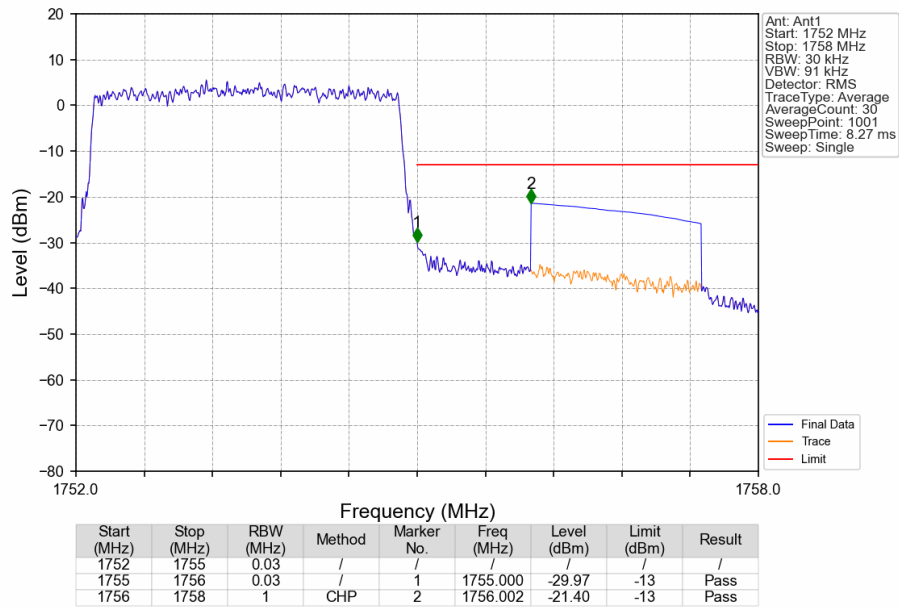
Band4 3MHz 16QAM HCH 1753.5MHz RB 1 0 NTV



Band4 3MHz 16QAM HCH 1753.5MHz RB 1 14 NTNV



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

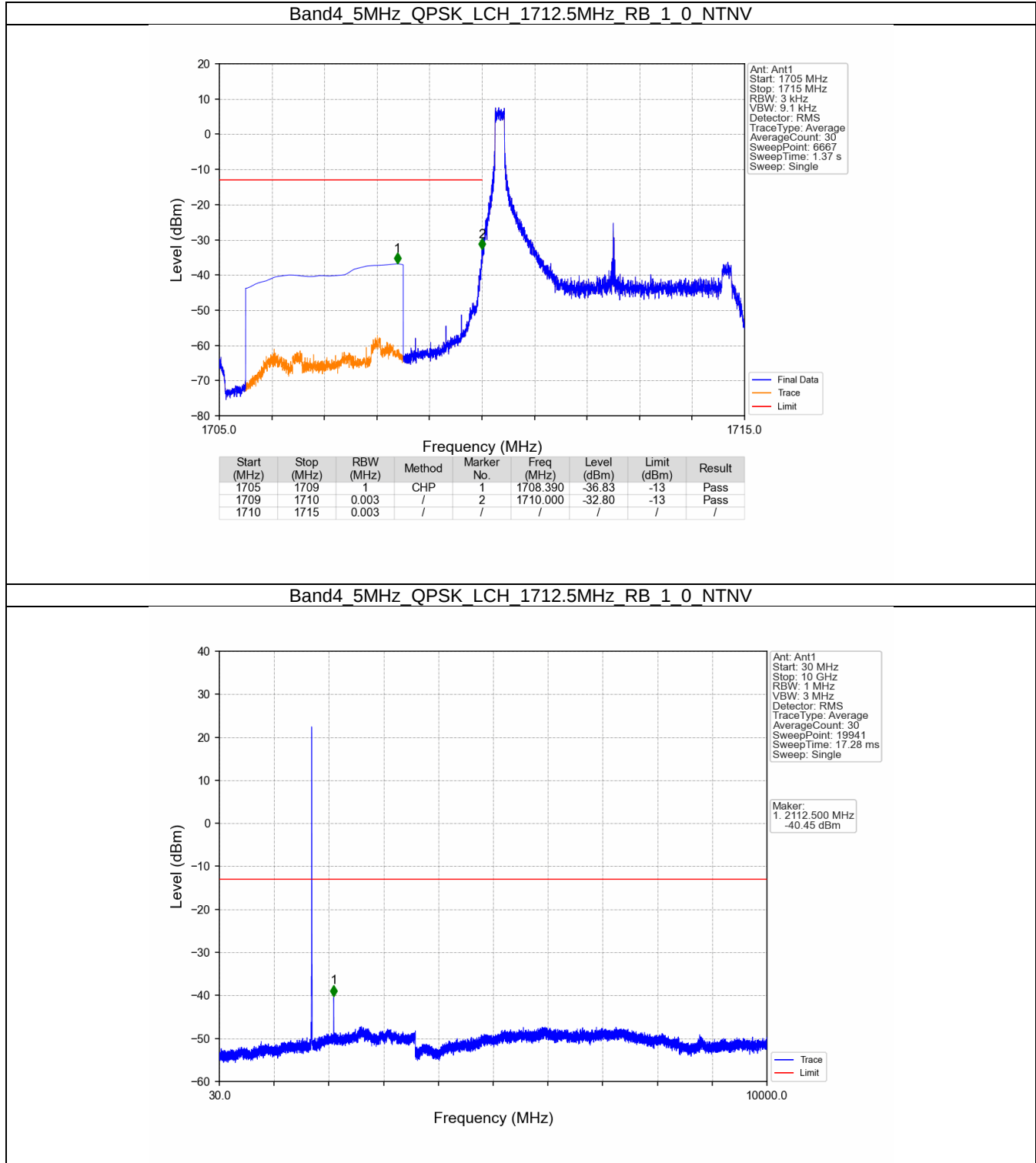


6.3 B4_5MHz

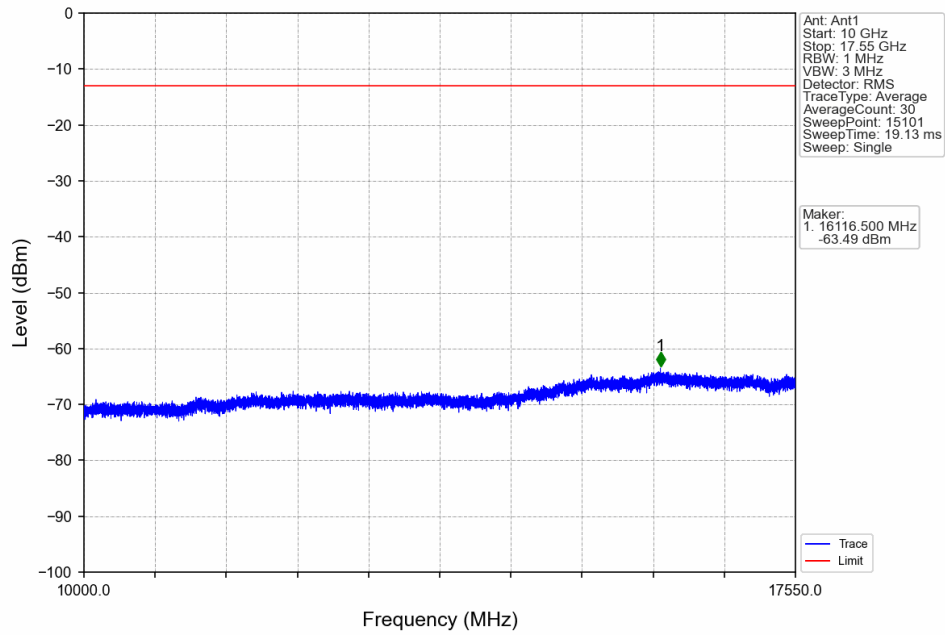
6.3.1 Test Result

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

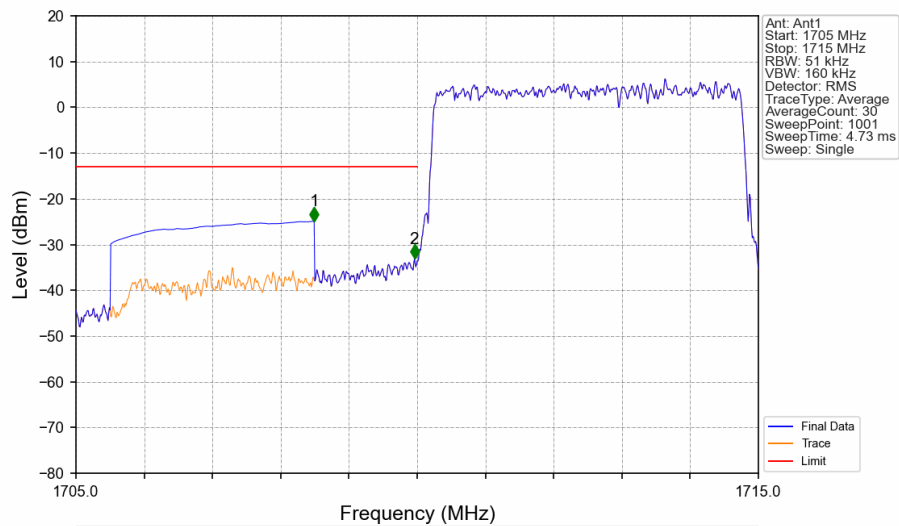
6.3.2 Test Graph



Band4 5MHz QPSK LCH 1712.5MHz RB 1 0 NTNV

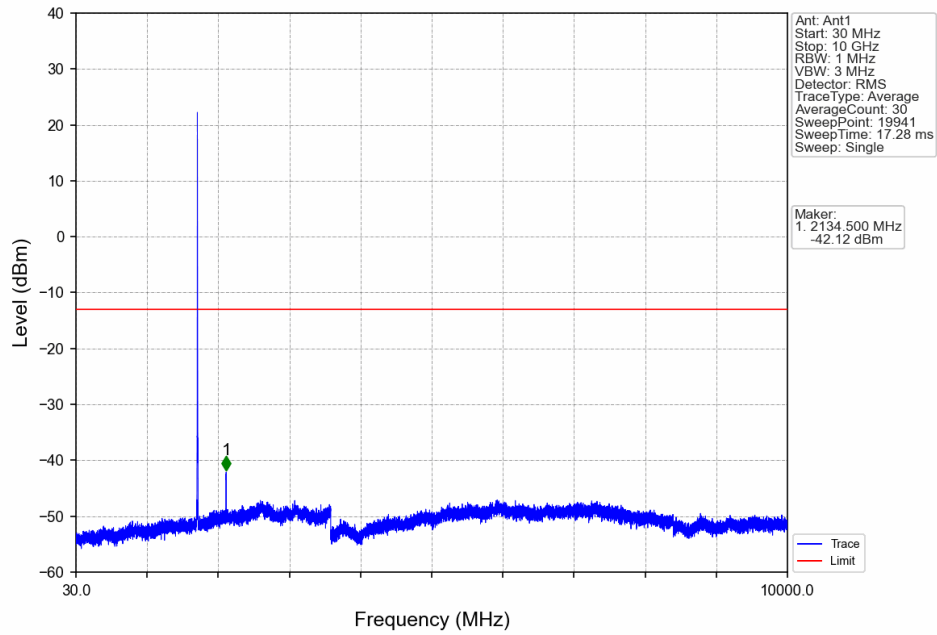


Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV

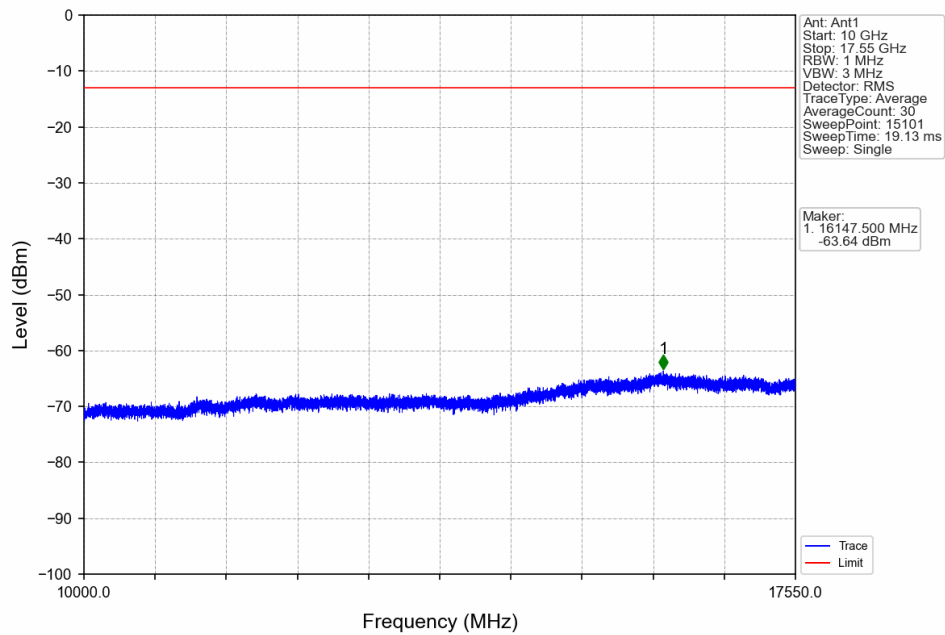


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.490	-24.88	-13	Pass
1709	1710	0.051	/	2	1709.960	-33.14	-13	Pass
1710	1715	0.051	/	/	/	/	/	/

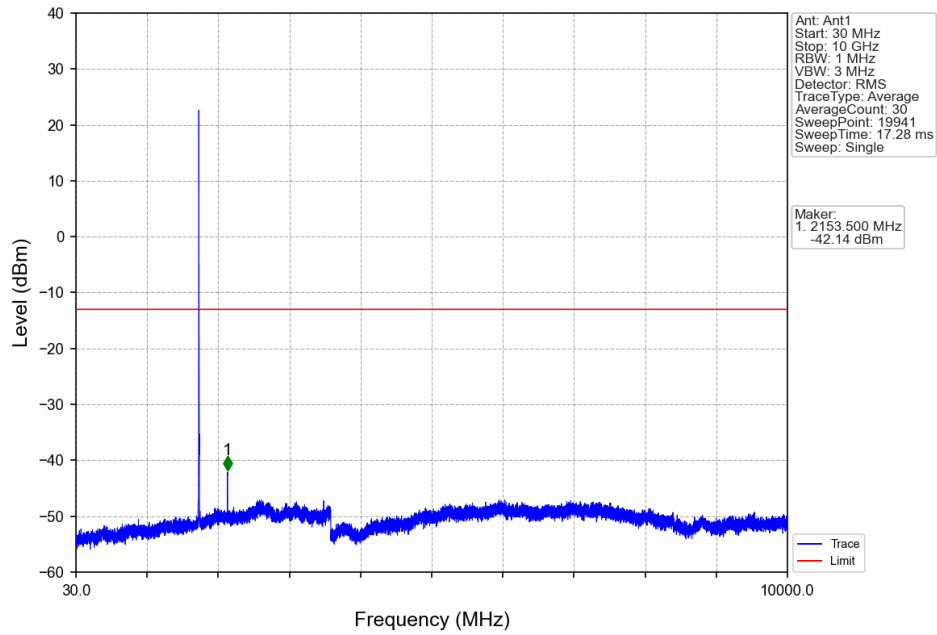
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTN



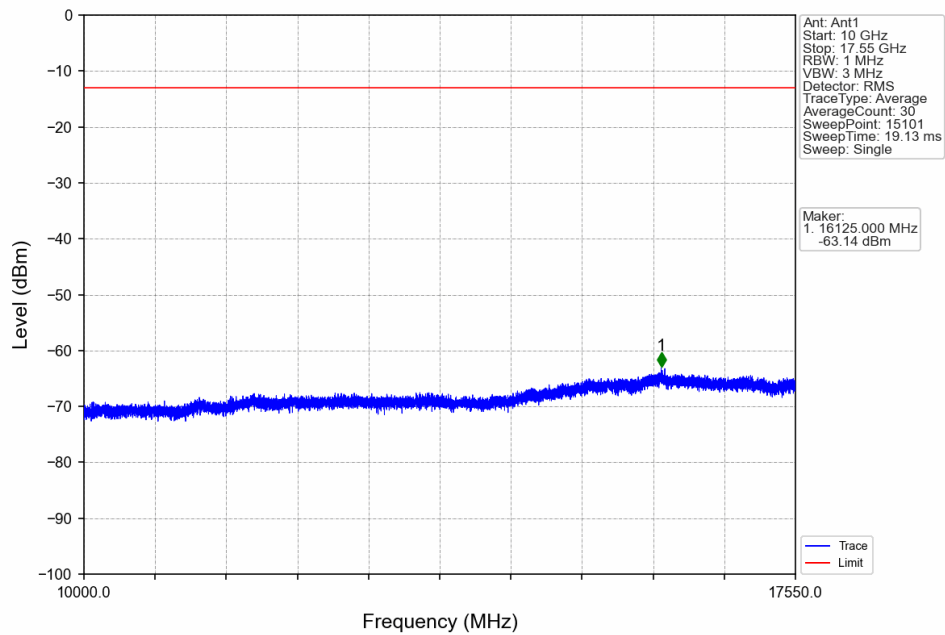
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTN



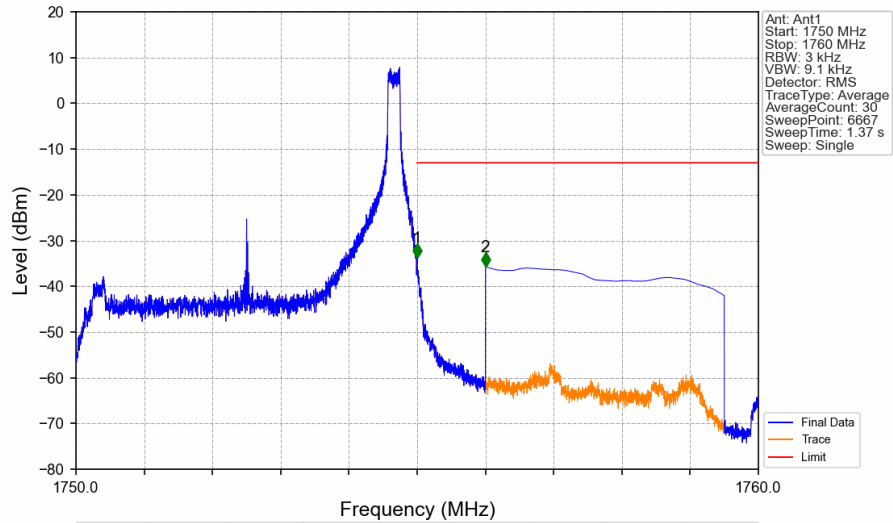
Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN



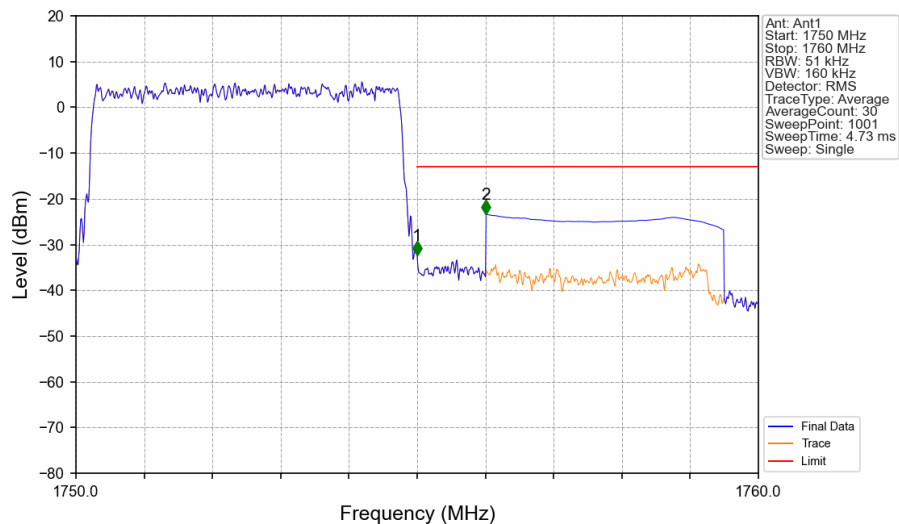
Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN



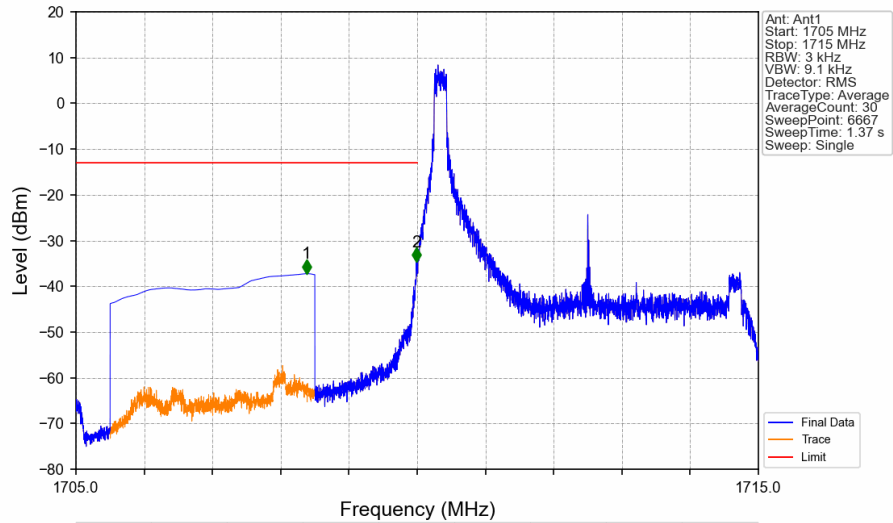
Band4 5MHz QPSK HCH 1752.5MHz RB 1 24 NTNV



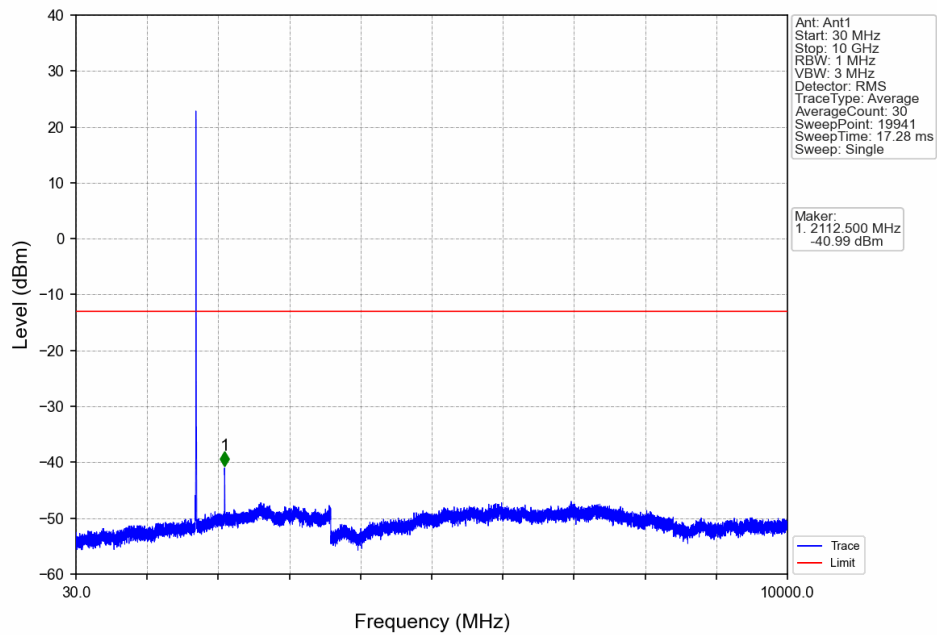
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTNV



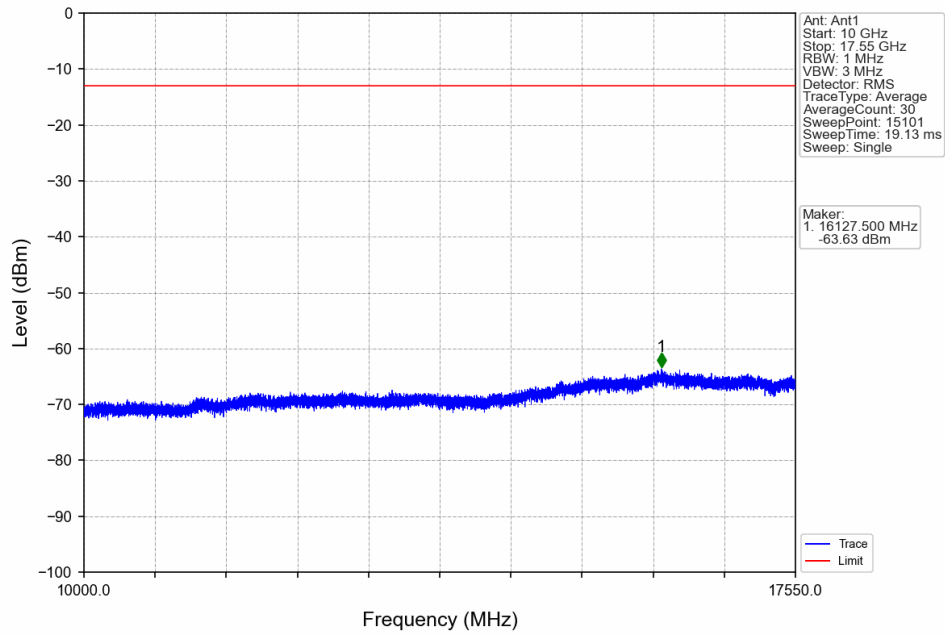
Band4 5MHz 16QAM LCH 1712.5MHz RB 1 0 NTNV



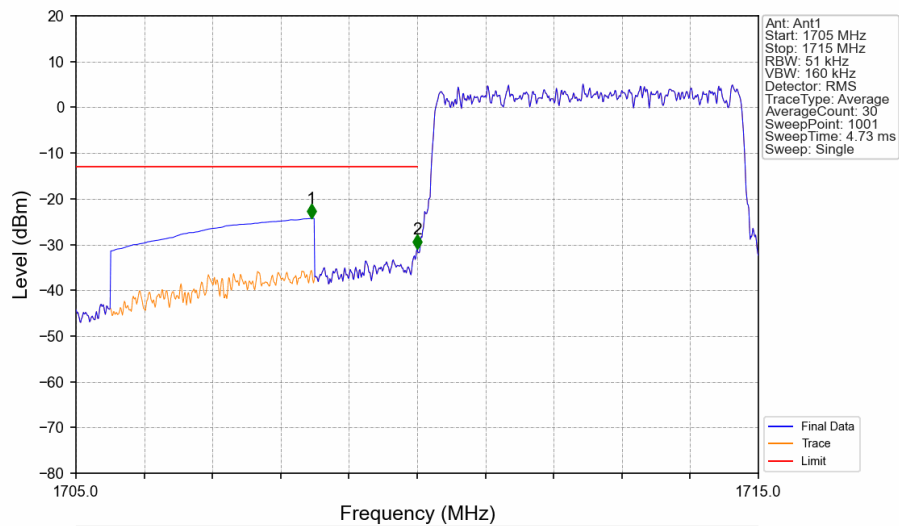
Band4 5MHz 16QAM LCH 1712.5MHz RB 1 0 NTNV



Band4 5MHz 16QAM LCH 1712.5MHz RB 1 0 NTV

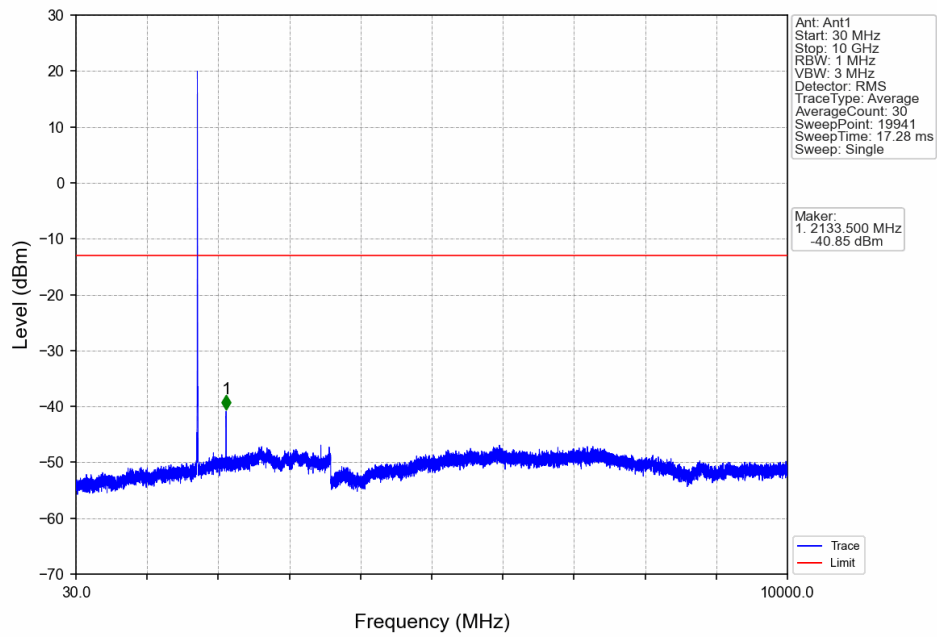


Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTV

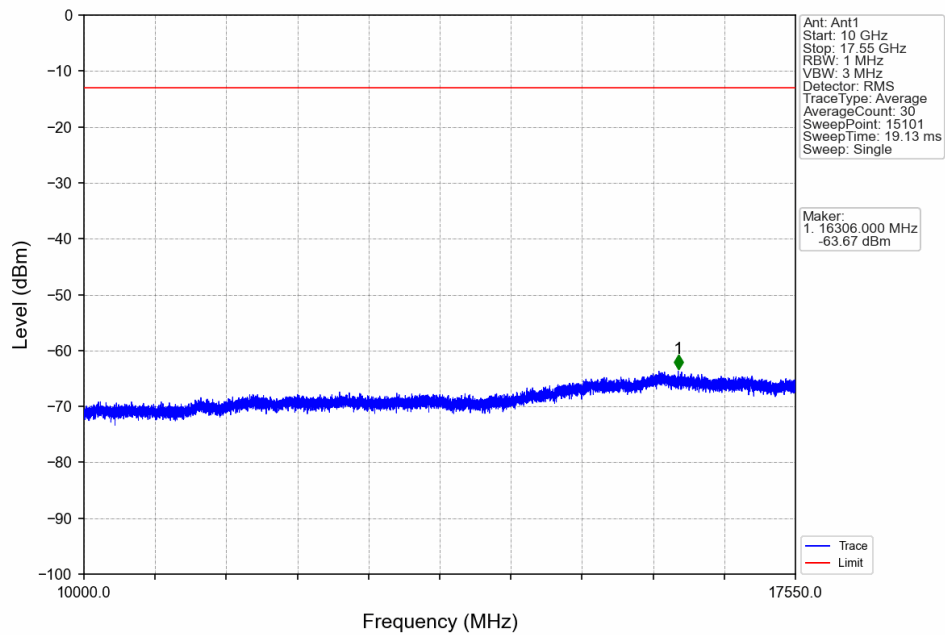


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.450	-24.28	-13	Pass
1709	1710	0.051	/	2	1710.000	-30.94	-13	Pass
1710	1715	0.051	/	/	/	/	/	/

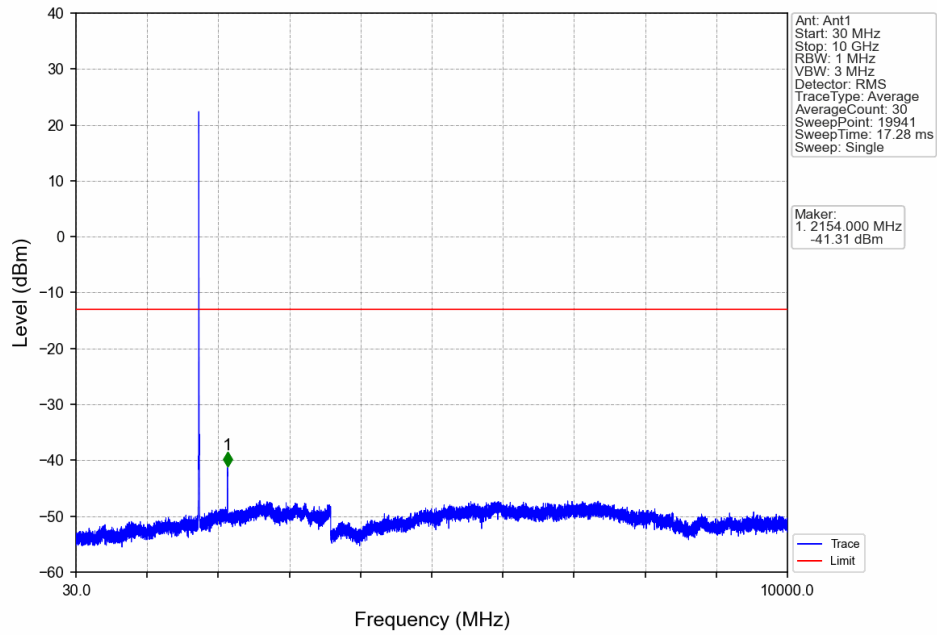
Band4 5MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



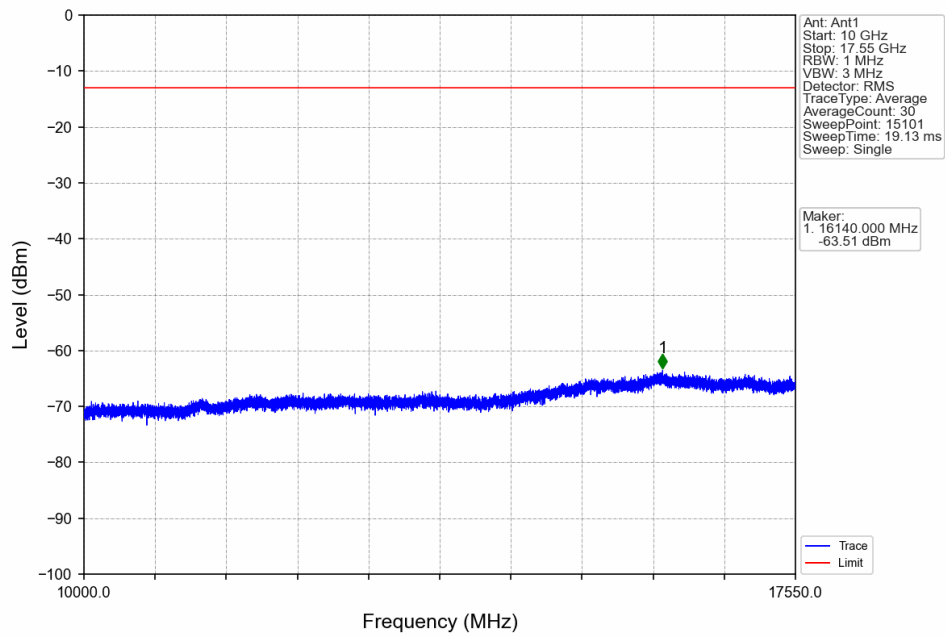
Band4 5MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



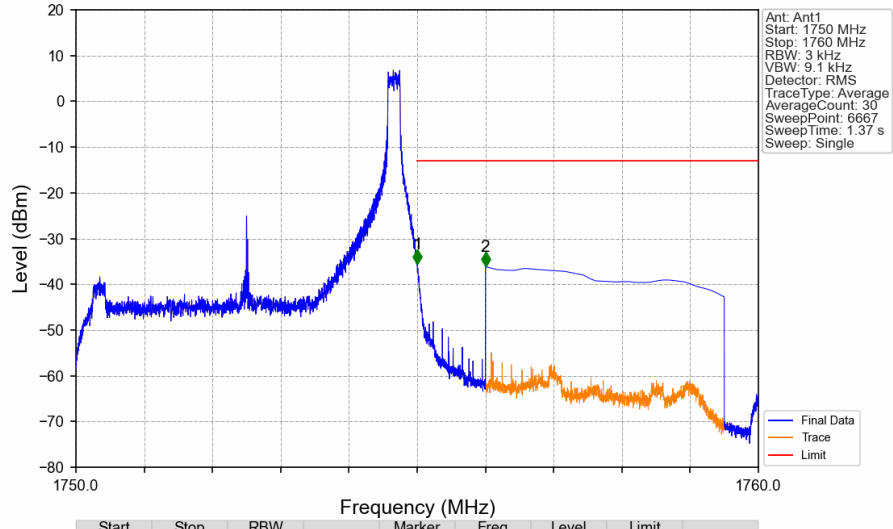
Band4 5MHz 16QAM HCH 1752.5MHz RB 1 0 NTV



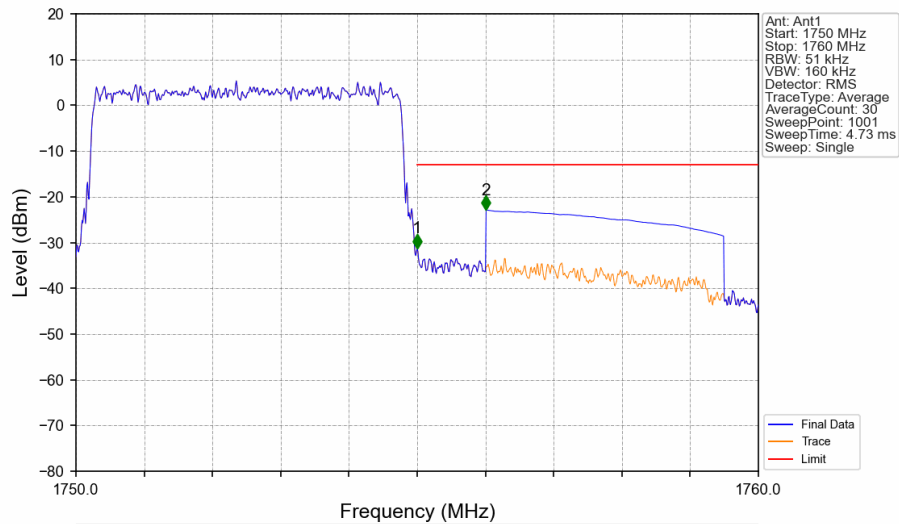
Band4 5MHz 16QAM HCH 1752.5MHz RB 1 0 NTV



Band4 5MHz 16QAM HCH 1752.5MHz RB 1 24 NTNV



Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV

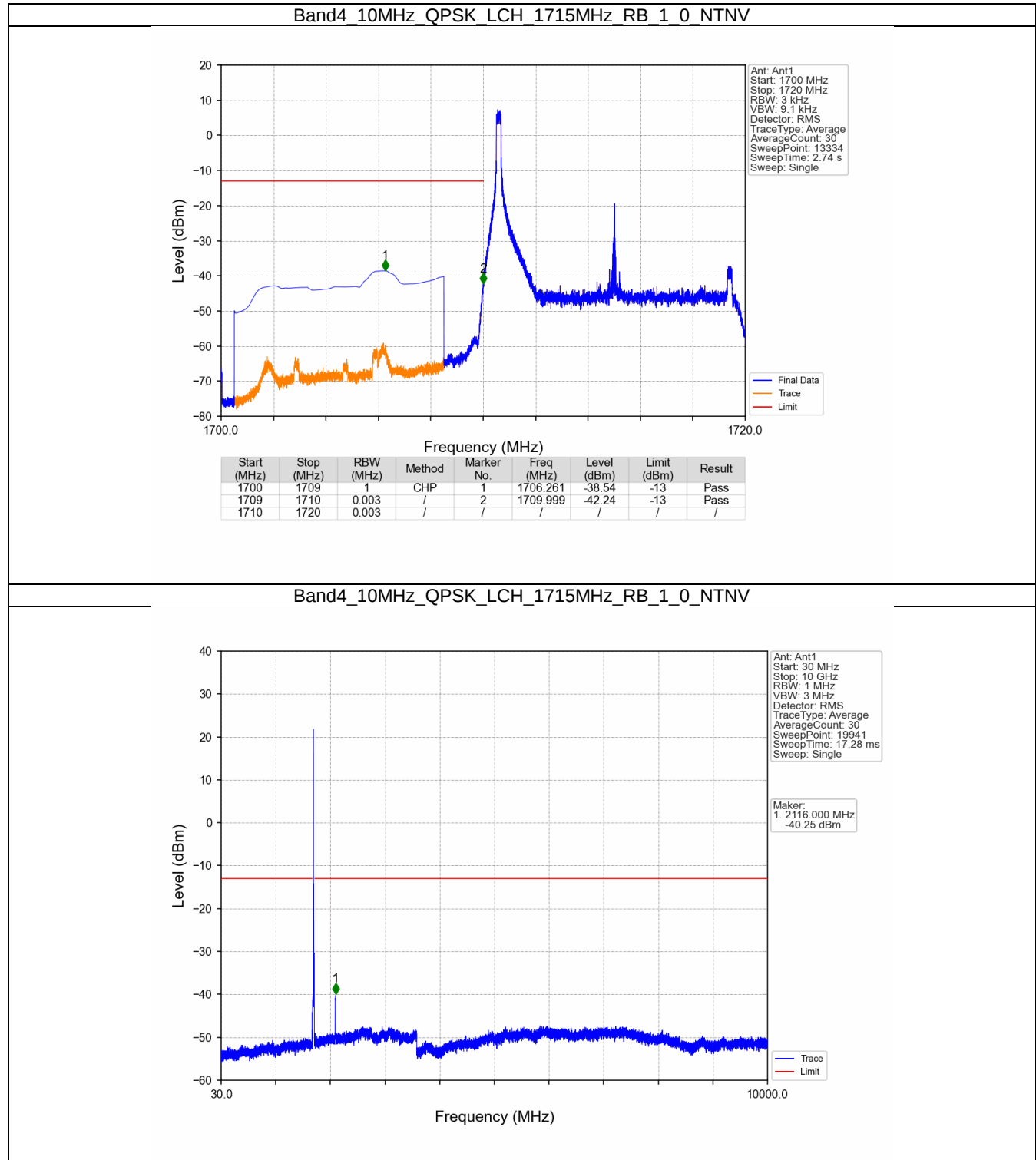


6.4 B4_10MHz

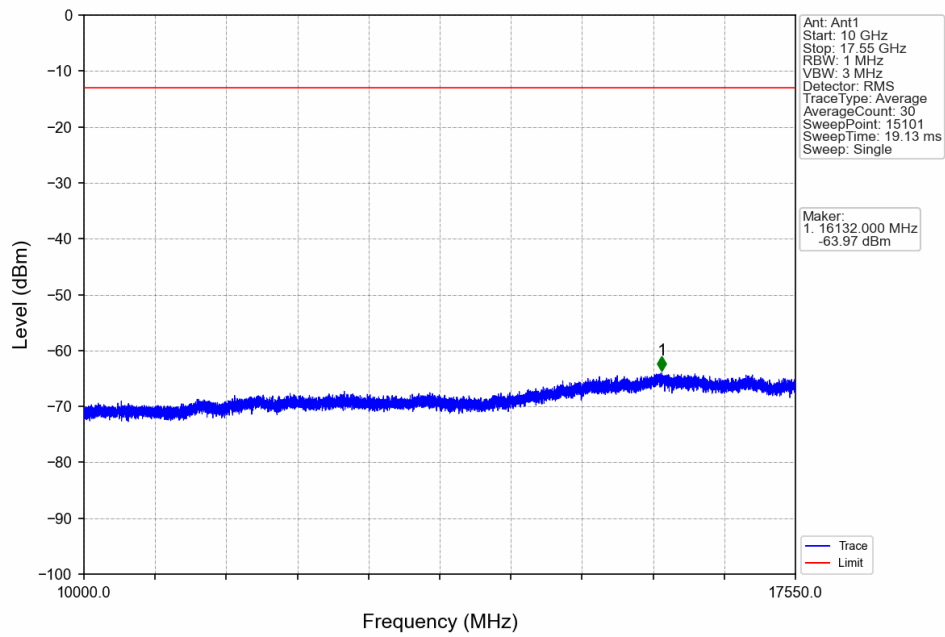
6.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

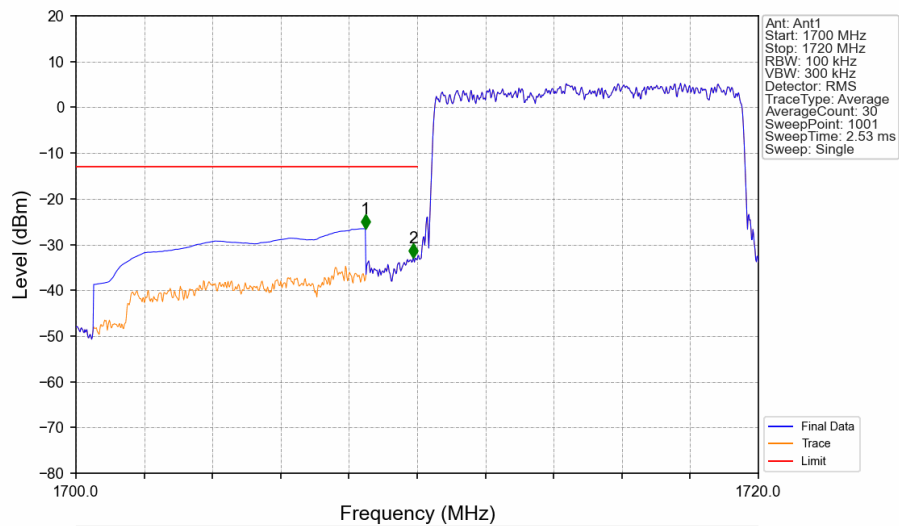
6.4.2 Test Graph



Band4 10MHz QPSK LCH 1715MHz RB 1 0 NTNV

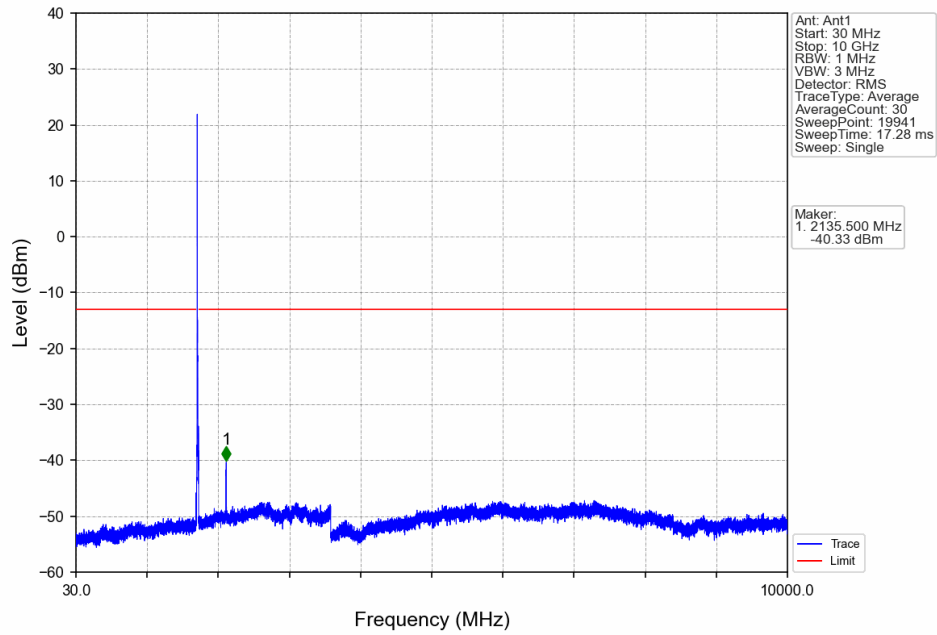


Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV

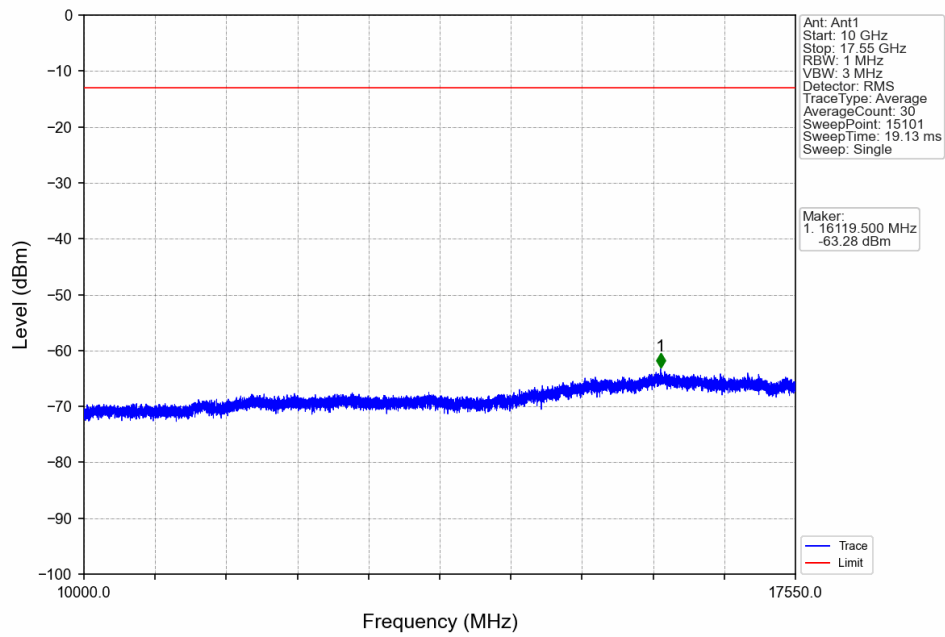


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.480	-26.52	-13	Pass
1709	1710	0.1	/	2	1709.880	-32.93	-13	Pass
1710	1720	0.1	/	/	/	/	/	/

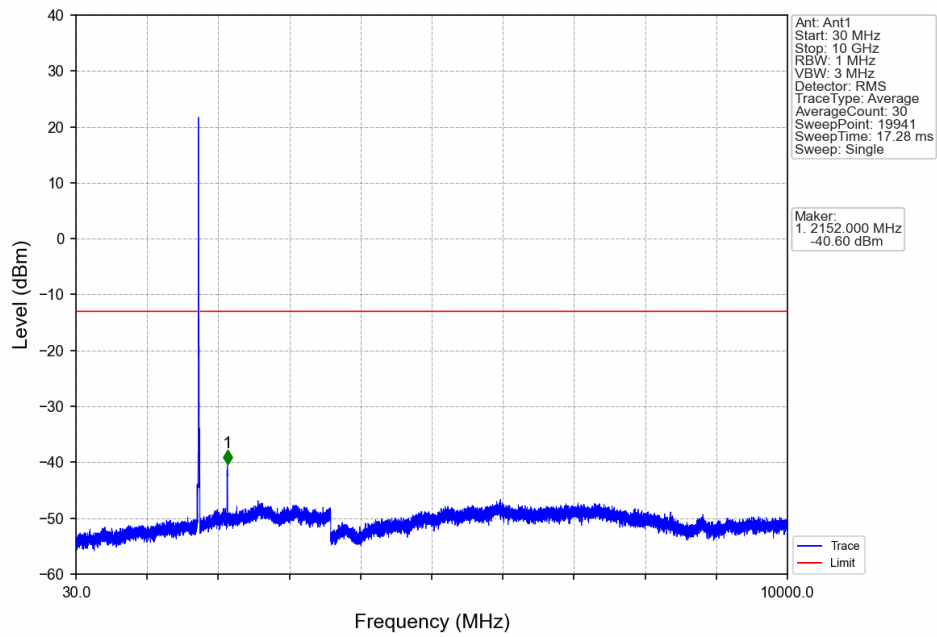
Band4 10MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



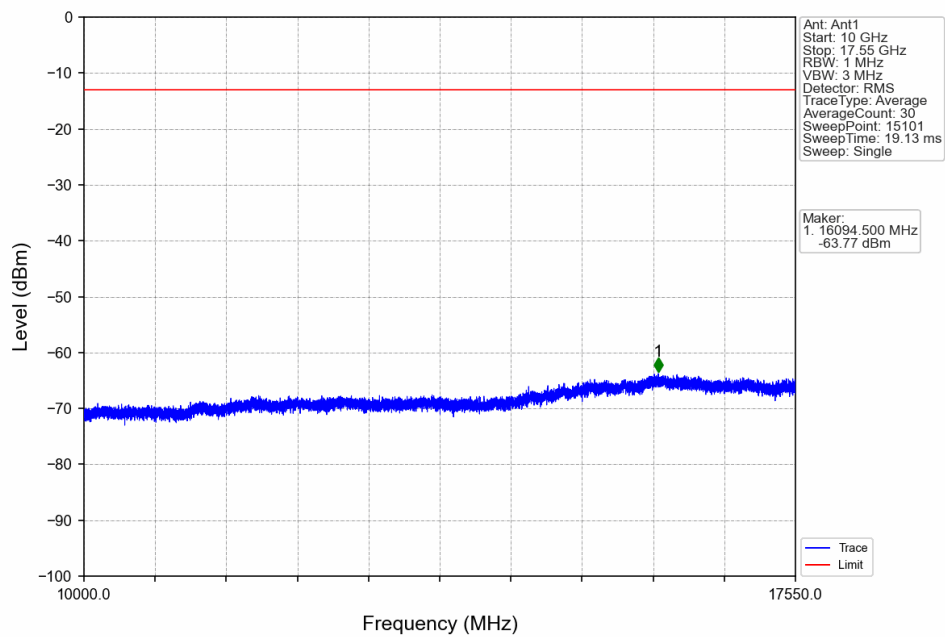
Band4 10MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



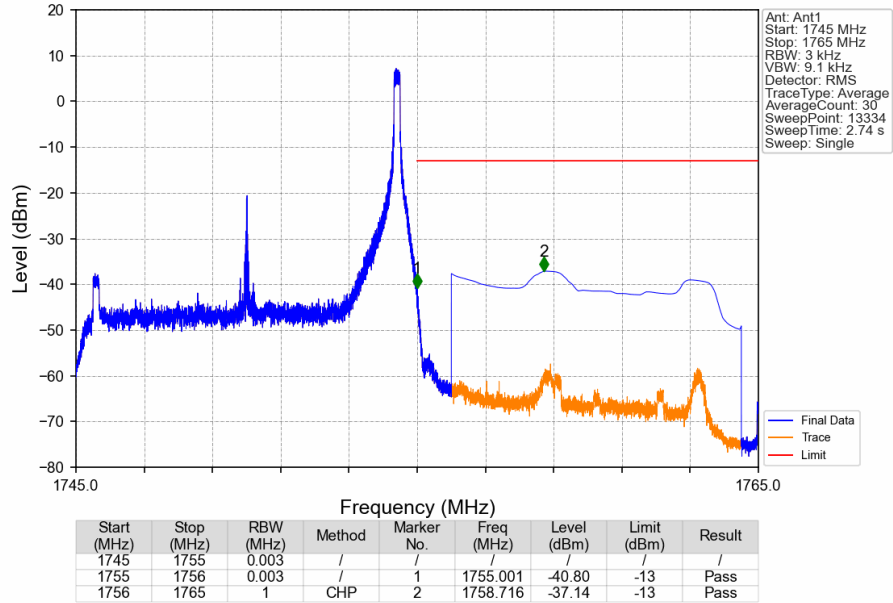
Band4 10MHz QPSK HCH 1750MHz RB 1 0 NTN



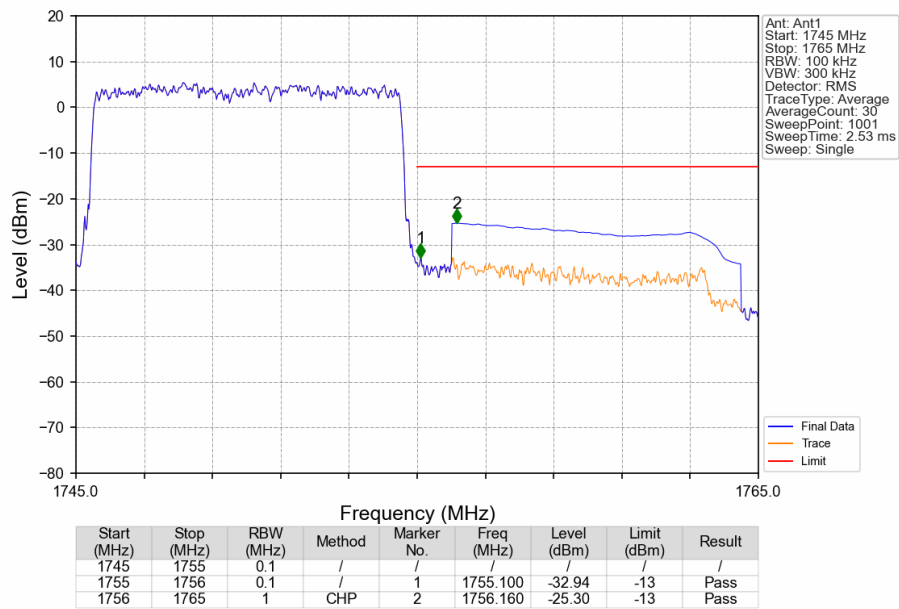
Band4 10MHz QPSK HCH 1750MHz RB 1 0 NTN



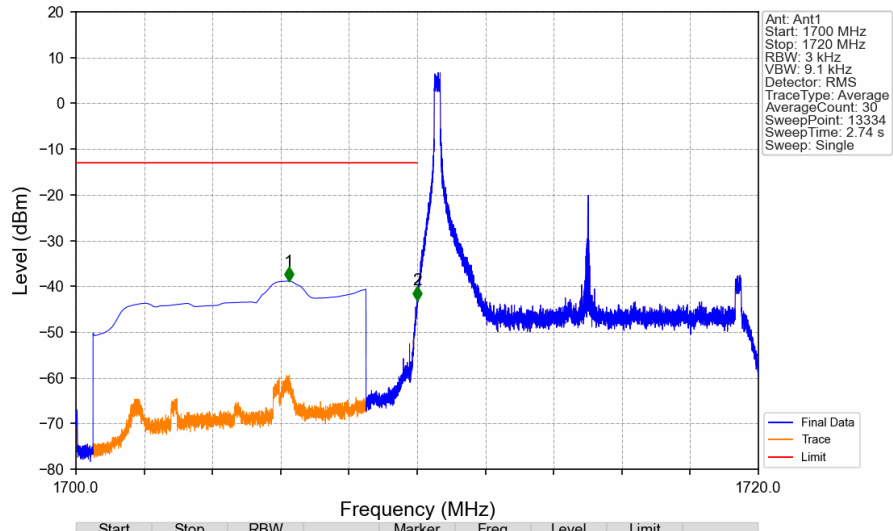
Band4 10MHz QPSK HCH 1750MHz RB 1 49 NTNV



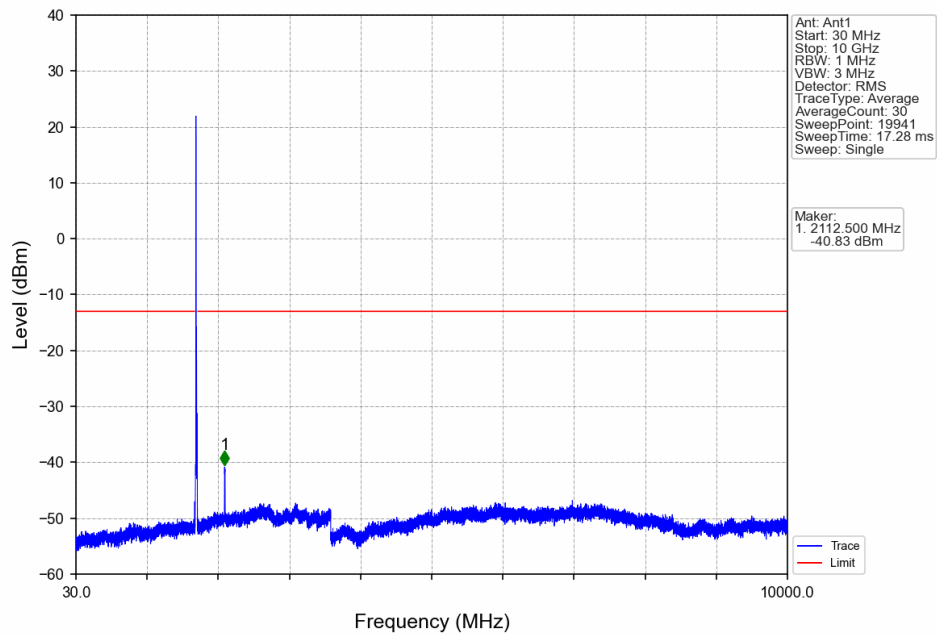
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



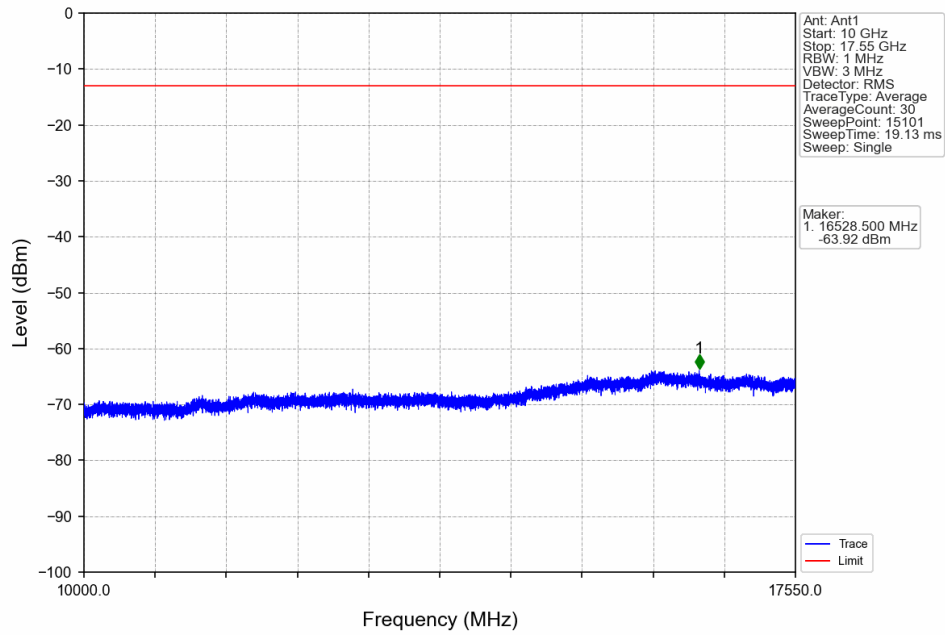
Band4 10MHz 16QAM LCH 1715MHz RB 1 0 NTNV



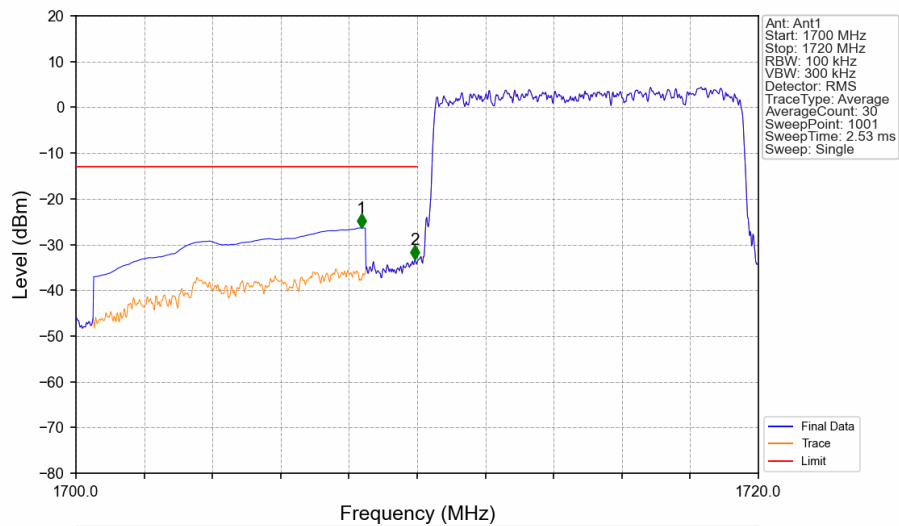
Band4 10MHz 16QAM LCH 1715MHz RB 1 0 NTNV



Band4 10MHz 16QAM LCH 1715MHz RB 1 0 NTNV

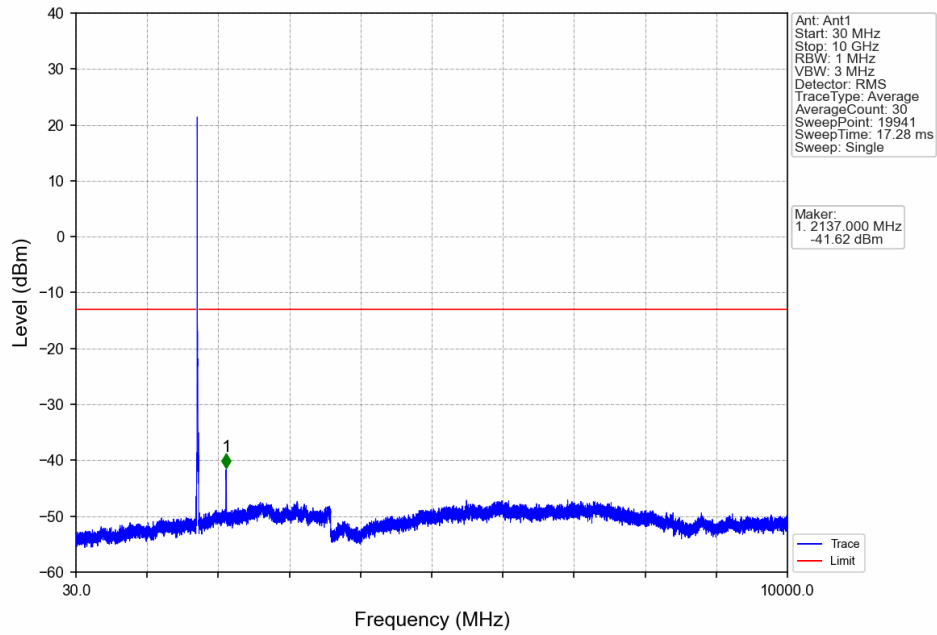


Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTNV

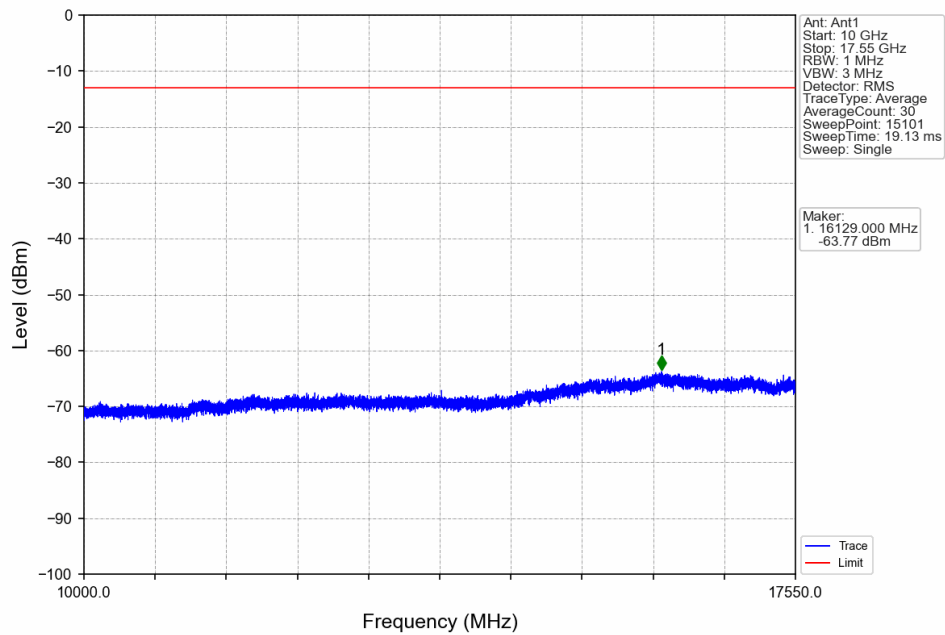


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.360	-26.37	-13	Pass
1709	1710	0.1	/	2	1709.940	-33.33	-13	Pass
1710	1720	0.1	/	/	/	/	/	/

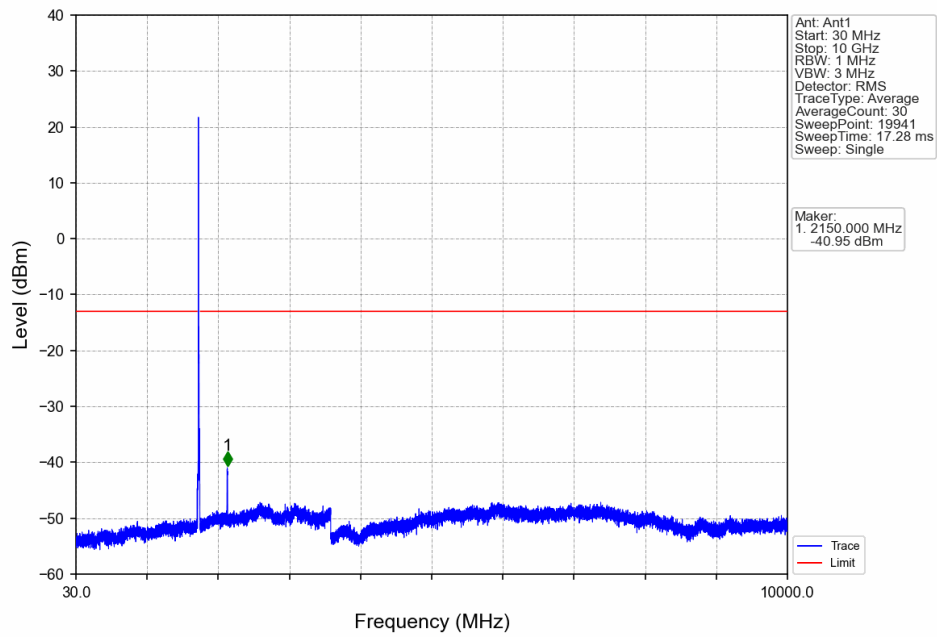
Band4 10MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



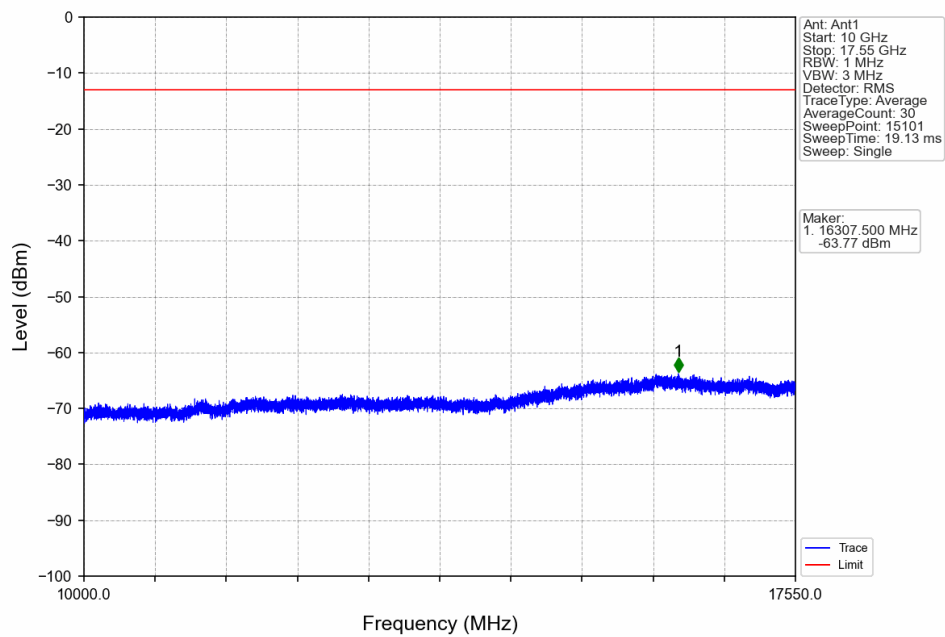
Band4 10MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



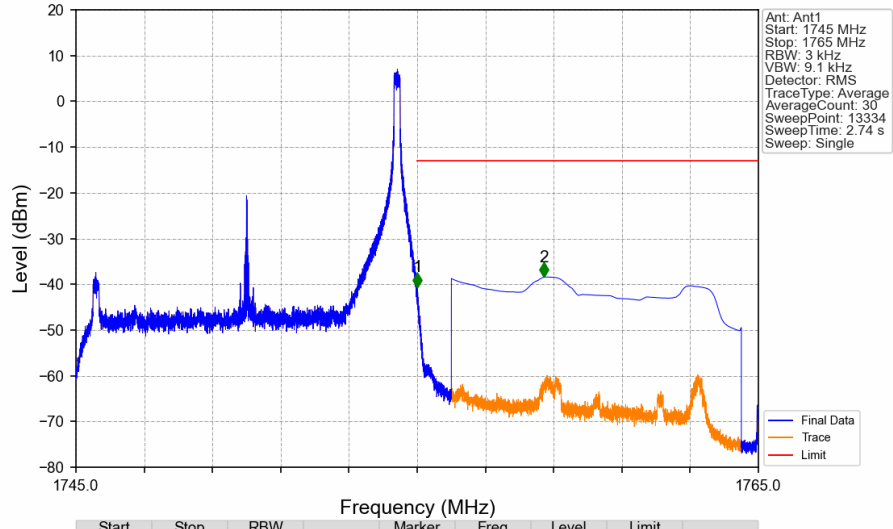
Band4 10MHz 16QAM HCH 1750MHz RB 1 0 NTNV



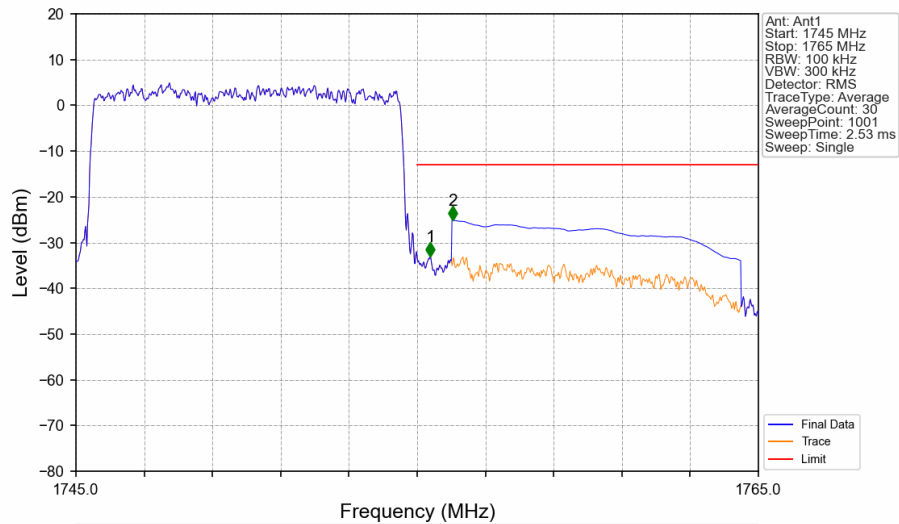
Band4 10MHz 16QAM HCH 1750MHz RB 1 0 NTNV



Band4 10MHz 16QAM HCH 1750MHz RB 1 49 NTNV



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

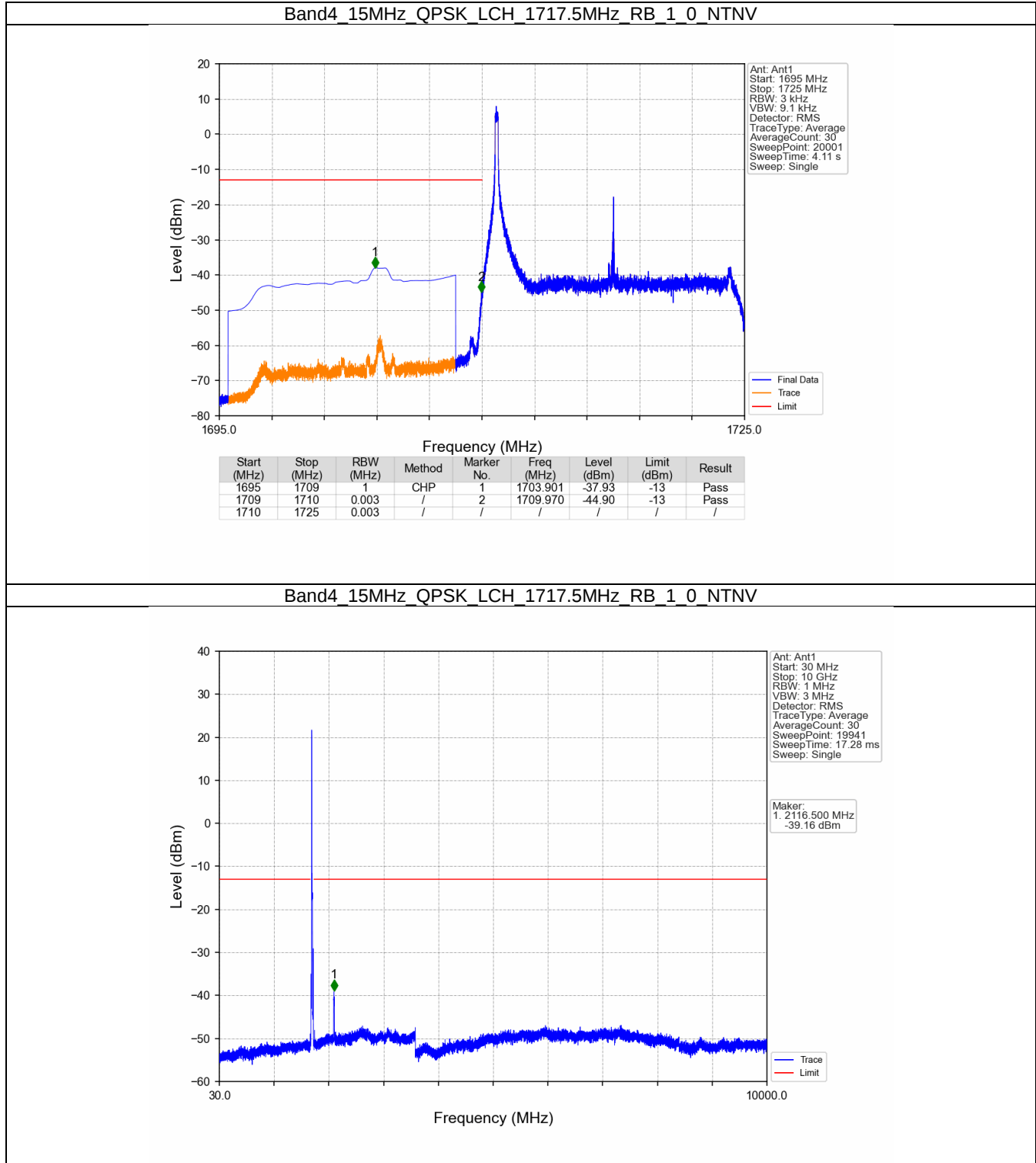


6.5 B4_15MHz

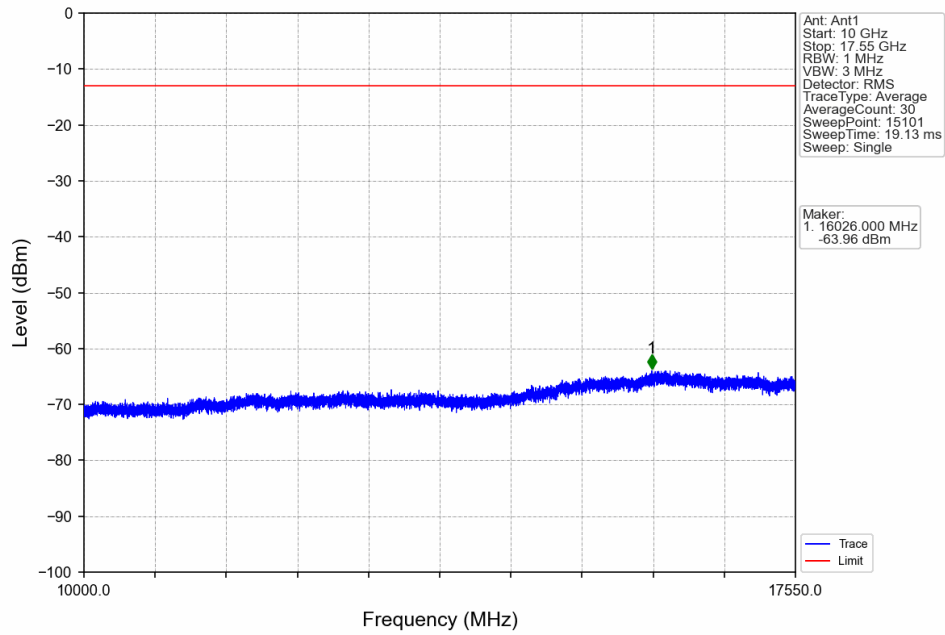
6.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

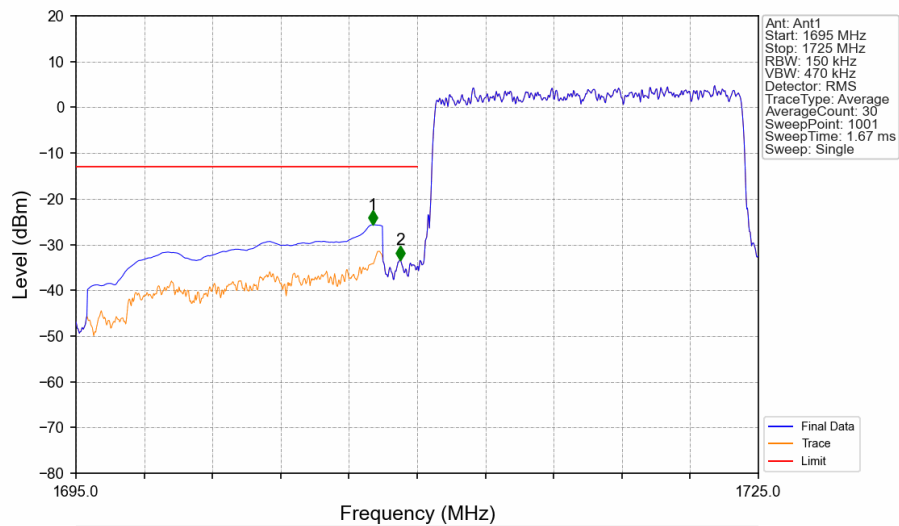
6.5.2 Test Graph



Band4 15MHz QPSK LCH 1717.5MHz RB 1 0 NTNV

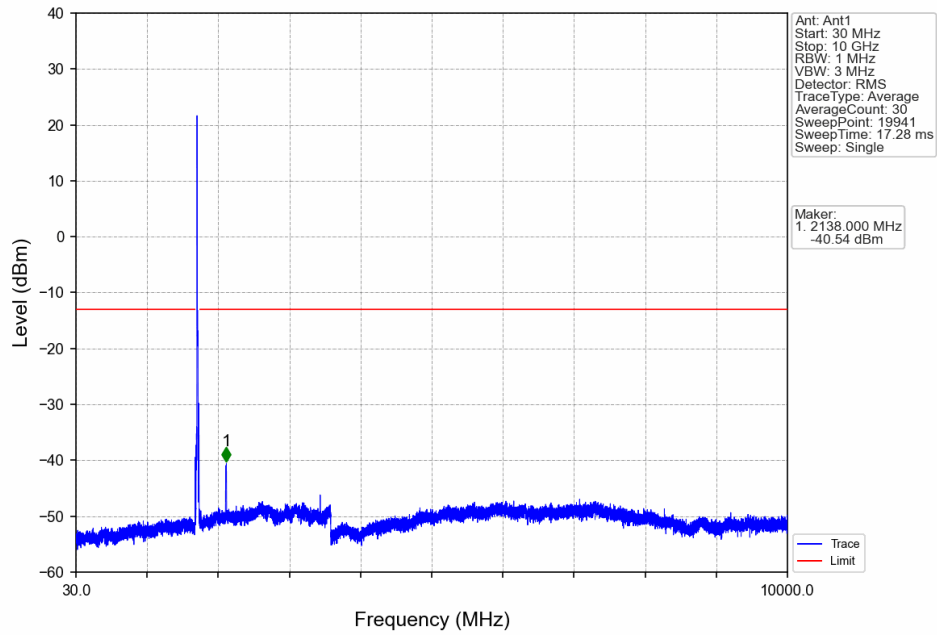


Band4 15MHz QPSK LCH 1717.5MHz RB 75 0 NTNV

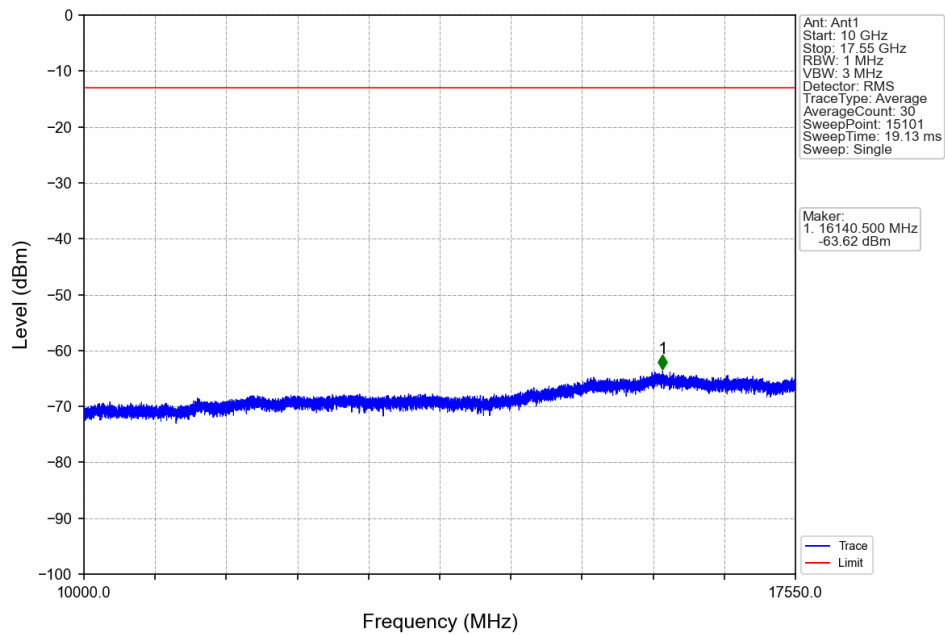


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.050	-25.65	-13	Pass
1709	1710	0.15	/	2	1709.250	-33.37	-13	Pass
1710	1725	0.15	/	/	/	/	/	/

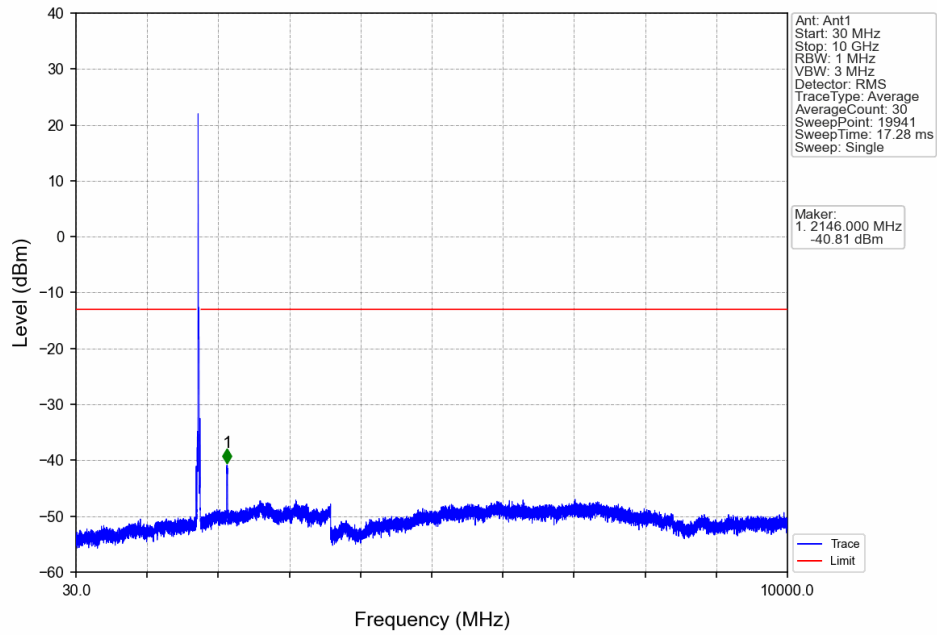
Band4 15MHz QPSK MCH 1732.5MHz RB 1 0 NTV



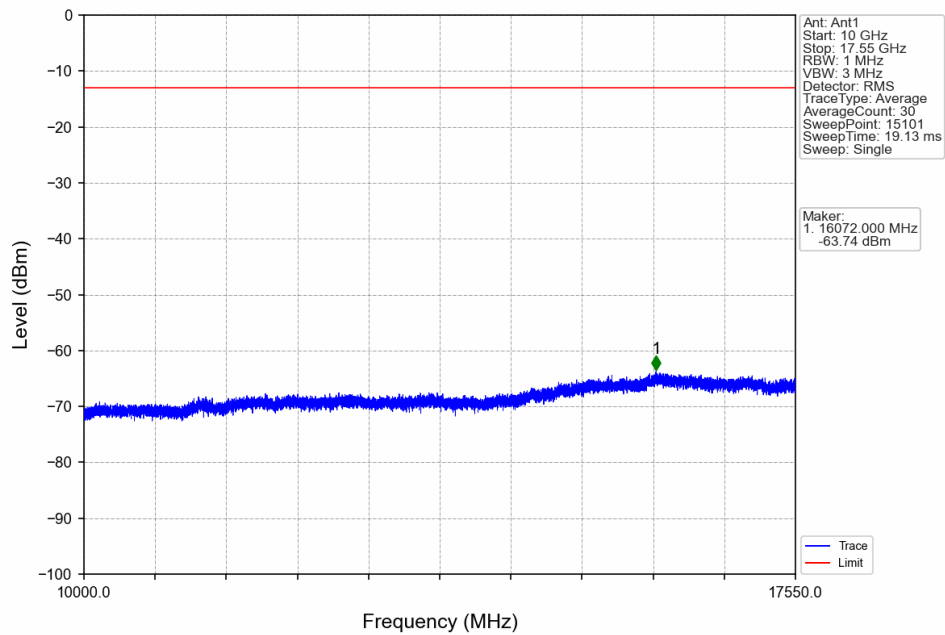
Band4 15MHz QPSK MCH 1732.5MHz RB 1 0 NTV



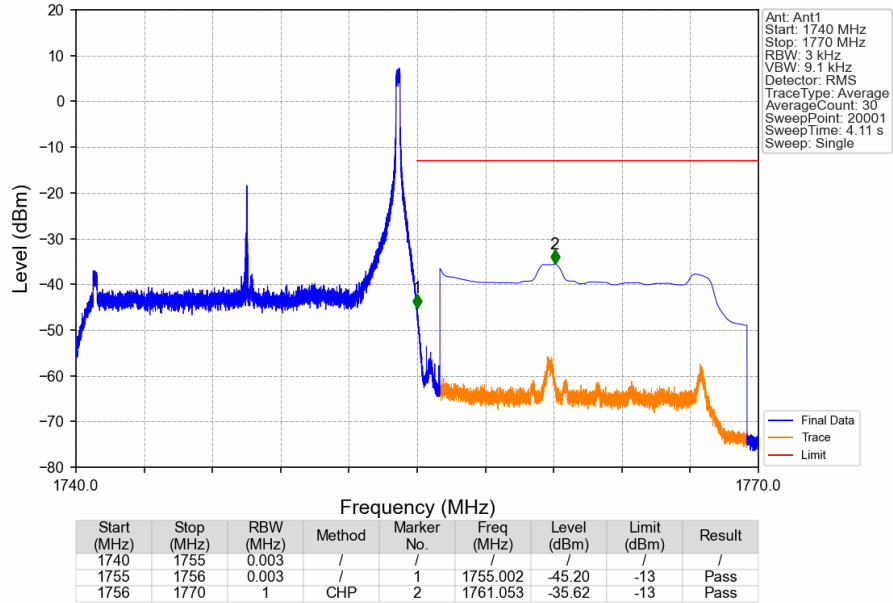
Band4 15MHz QPSK HCH 1747.5MHz RB 1 0 NTV



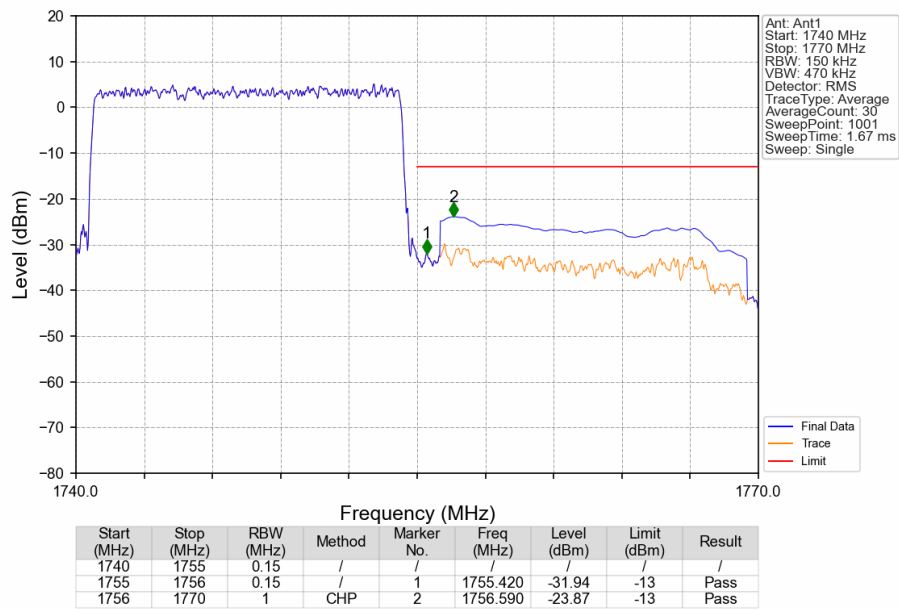
Band4 15MHz QPSK HCH 1747.5MHz RB 1 0 NTV



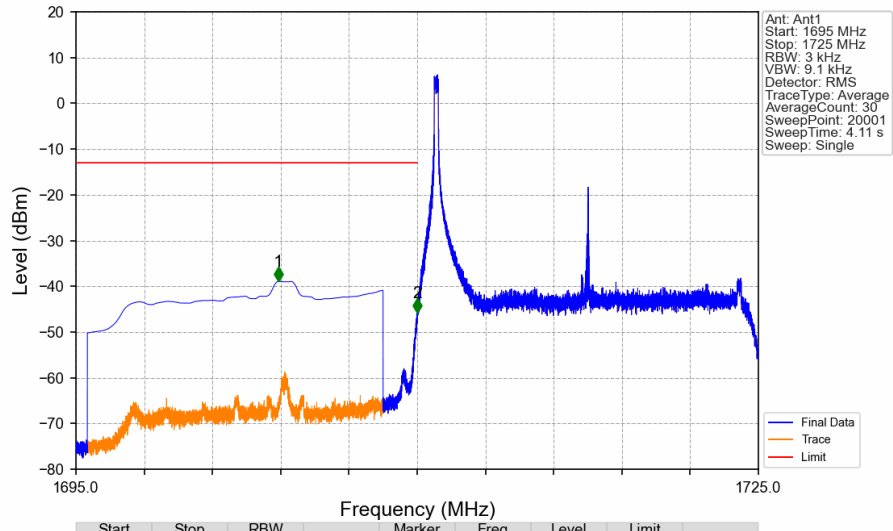
Band4 15MHz QPSK HCH 1747.5MHz RB 1 74 NTNV



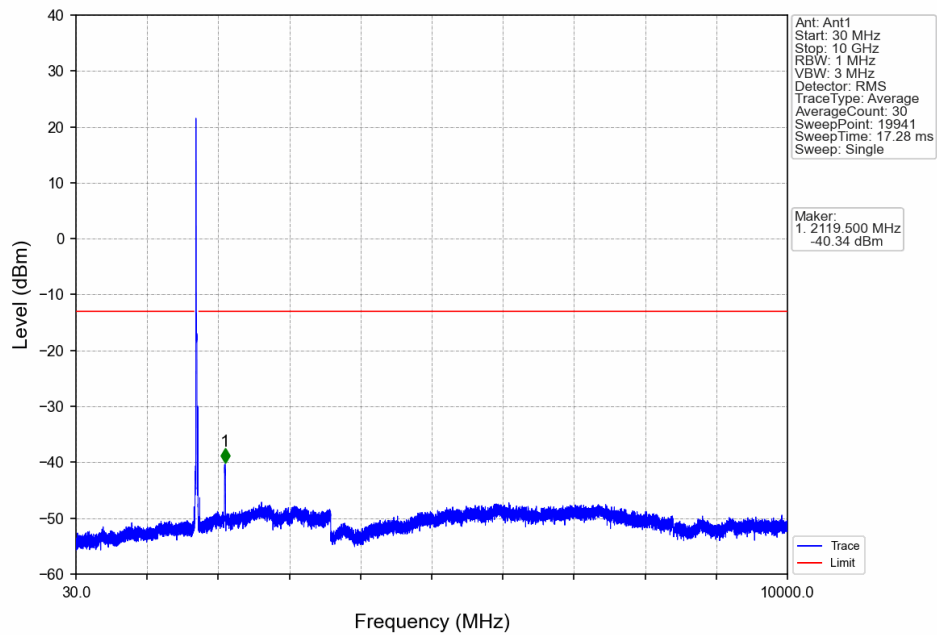
Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTNV



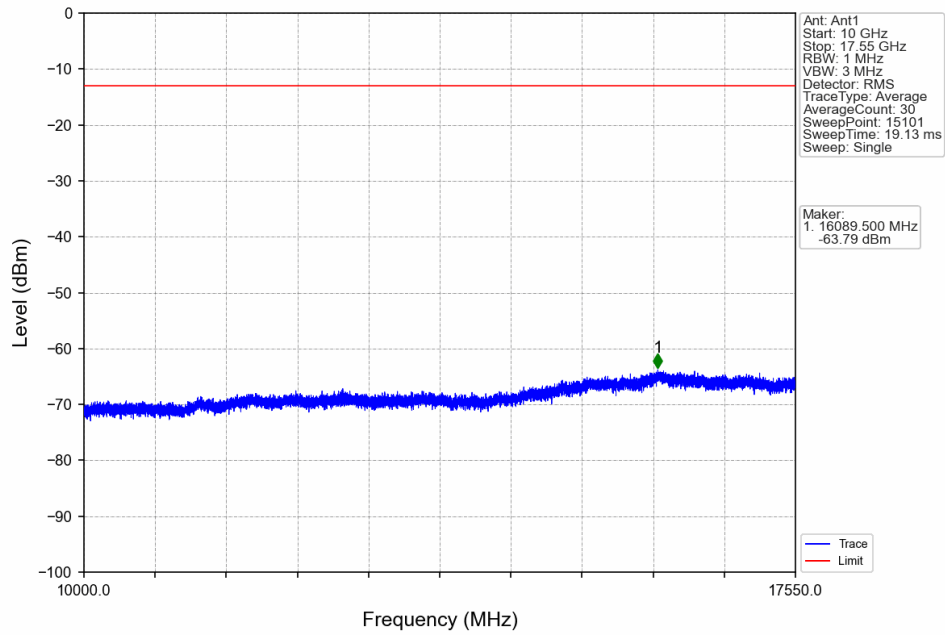
Band4 15MHz 16QAM LCH 1717.5MHz RB 1 0 NTV



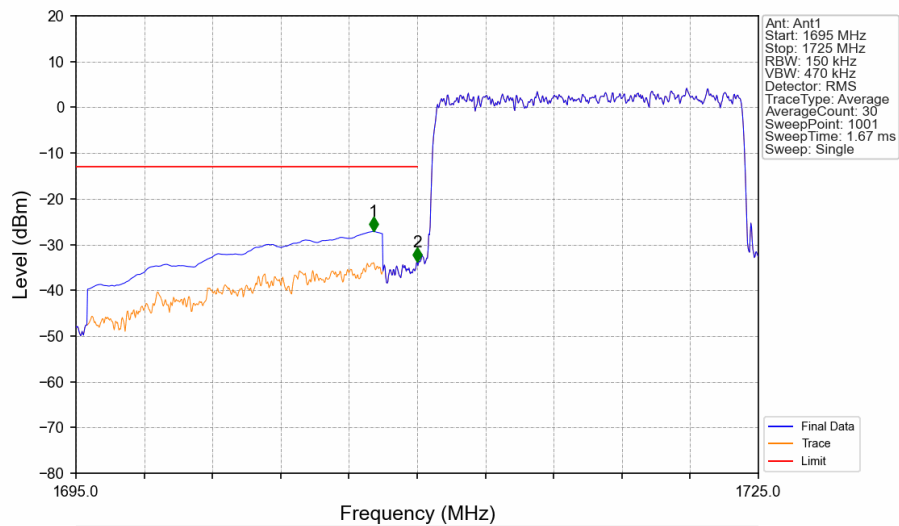
Band4 15MHz 16QAM LCH 1717.5MHz RB 1 0 NTV



Band4 15MHz 16QAM LCH 1717.5MHz RB 1 0 NTNV

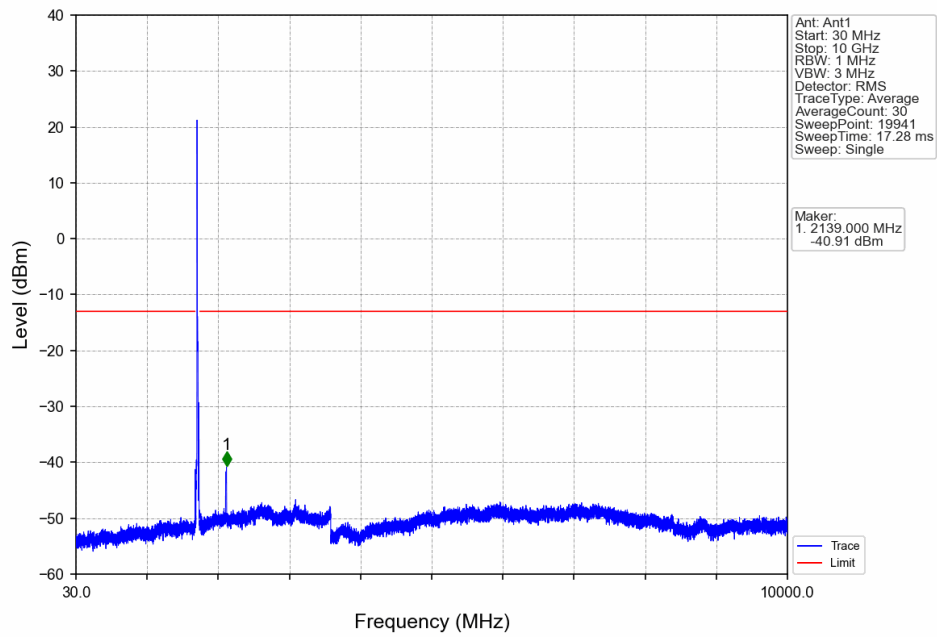


Band4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTNV

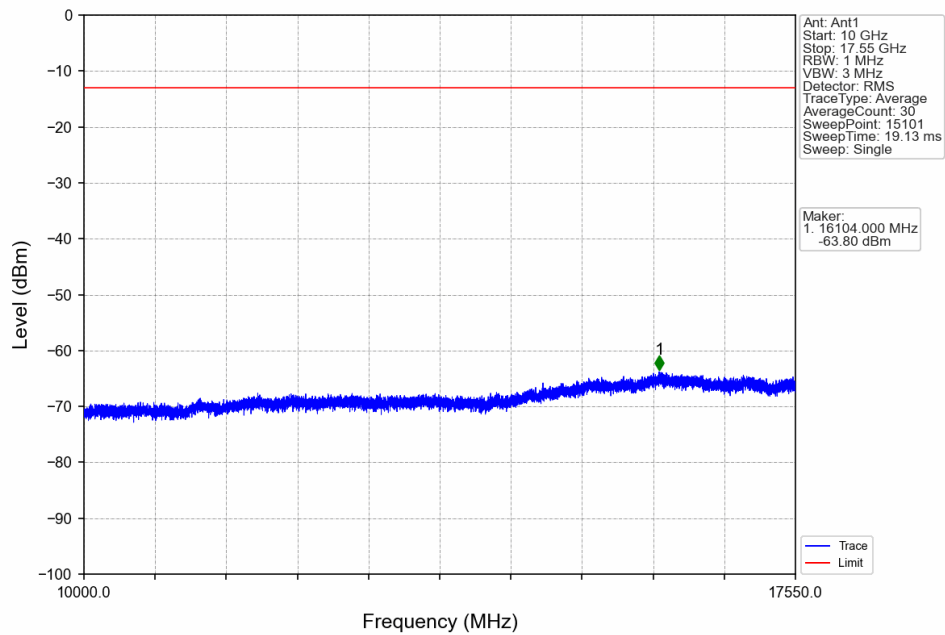


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.080	-27.10	-13	Pass
1709	1710	0.15	/	2	1710.000	-33.79	-13	Pass
1710	1725	0.15	/	/	/	/	/	/

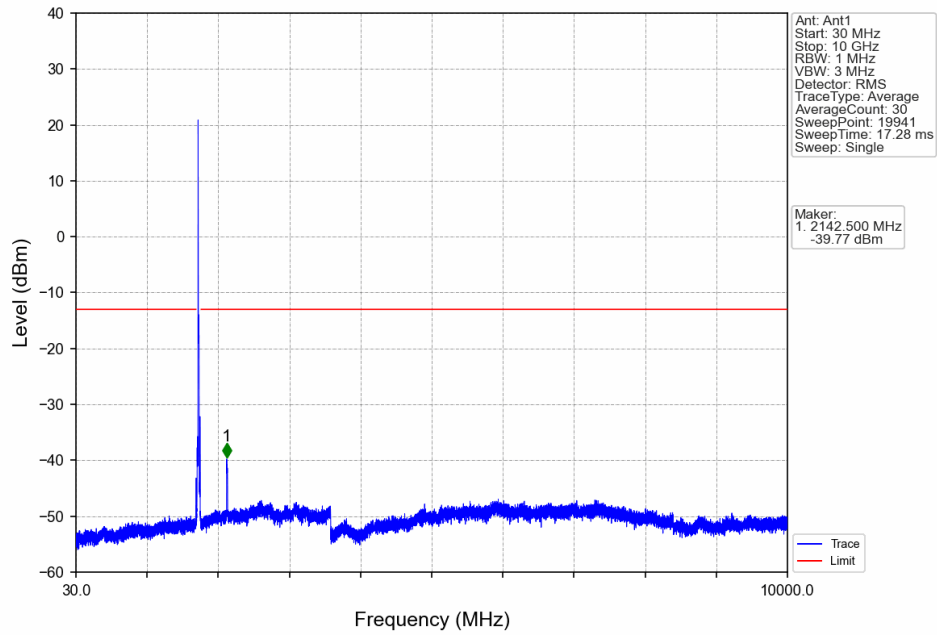
Band4 15MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



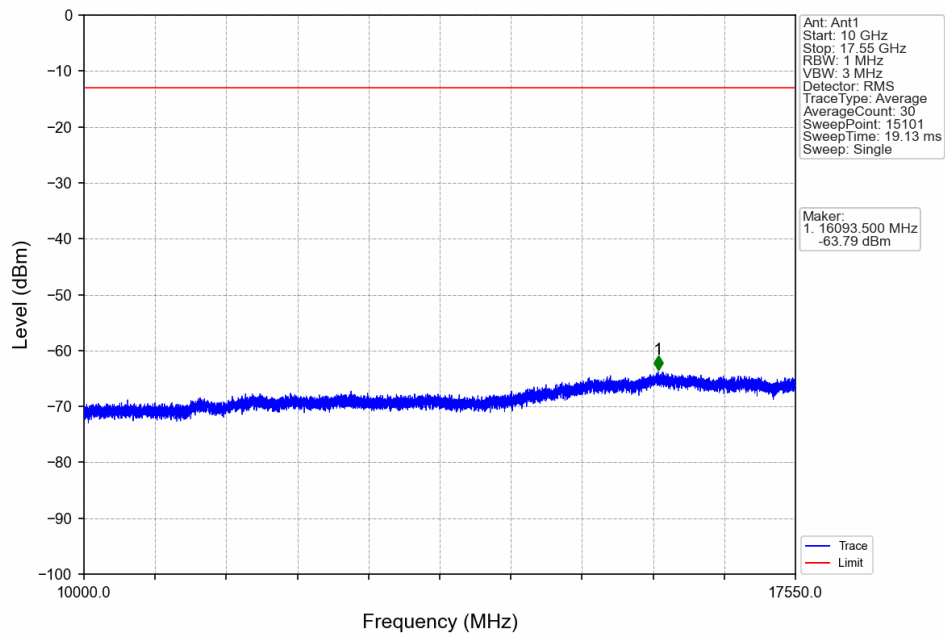
Band4 15MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



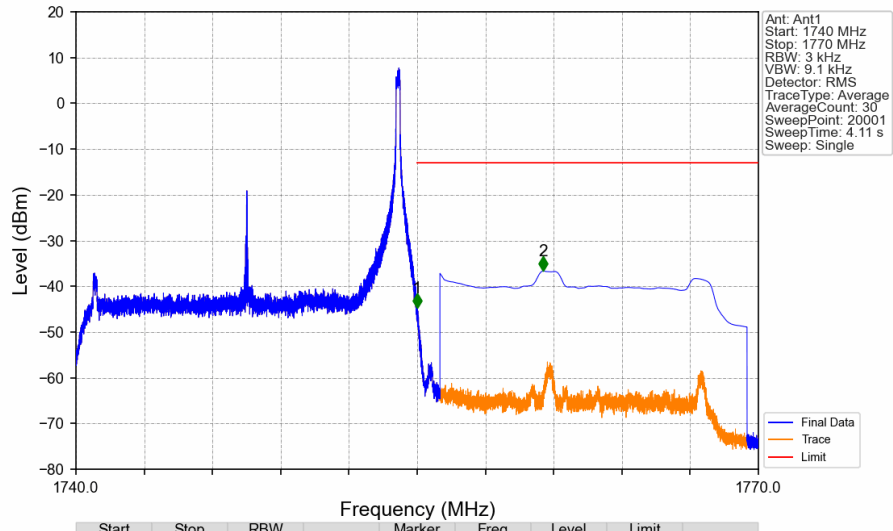
Band4 15MHz 16QAM HCH 1747.5MHz RB 1 0 NTV



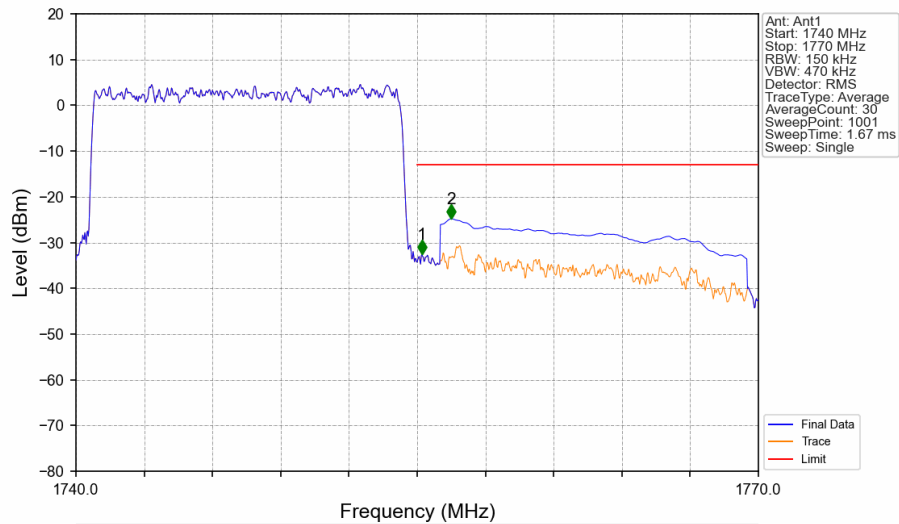
Band4 15MHz 16QAM HCH 1747.5MHz RB 1 0 NTV



Band4 15MHz 16QAM HCH 1747.5MHz RB 1 74 NTNV



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



6.6 B4_20MHz

6.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass