

## 5. Peak-Average Ratio

### 5.1 Test Result

#### 5.1.1 B5\_1.4MHz

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	4.83	<=13	Pass
	836.5	6	0	4.58	<=13	Pass
	848.3	6	0	4.50	<=13	Pass
16QAM	824.7	6	0	5.59	<=13	Pass
	836.5	6	0	5.43	<=13	Pass
	848.3	6	0	5.31	<=13	Pass

#### 5.1.2 B5\_3MHz

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	4.92	<=13	Pass
	836.5	15	0	4.76	<=13	Pass
	847.5	15	0	4.69	<=13	Pass
16QAM	825.5	15	0	5.65	<=13	Pass
	836.5	15	0	5.52	<=13	Pass
	847.5	15	0	5.48	<=13	Pass

#### 5.1.3 B5\_5MHz

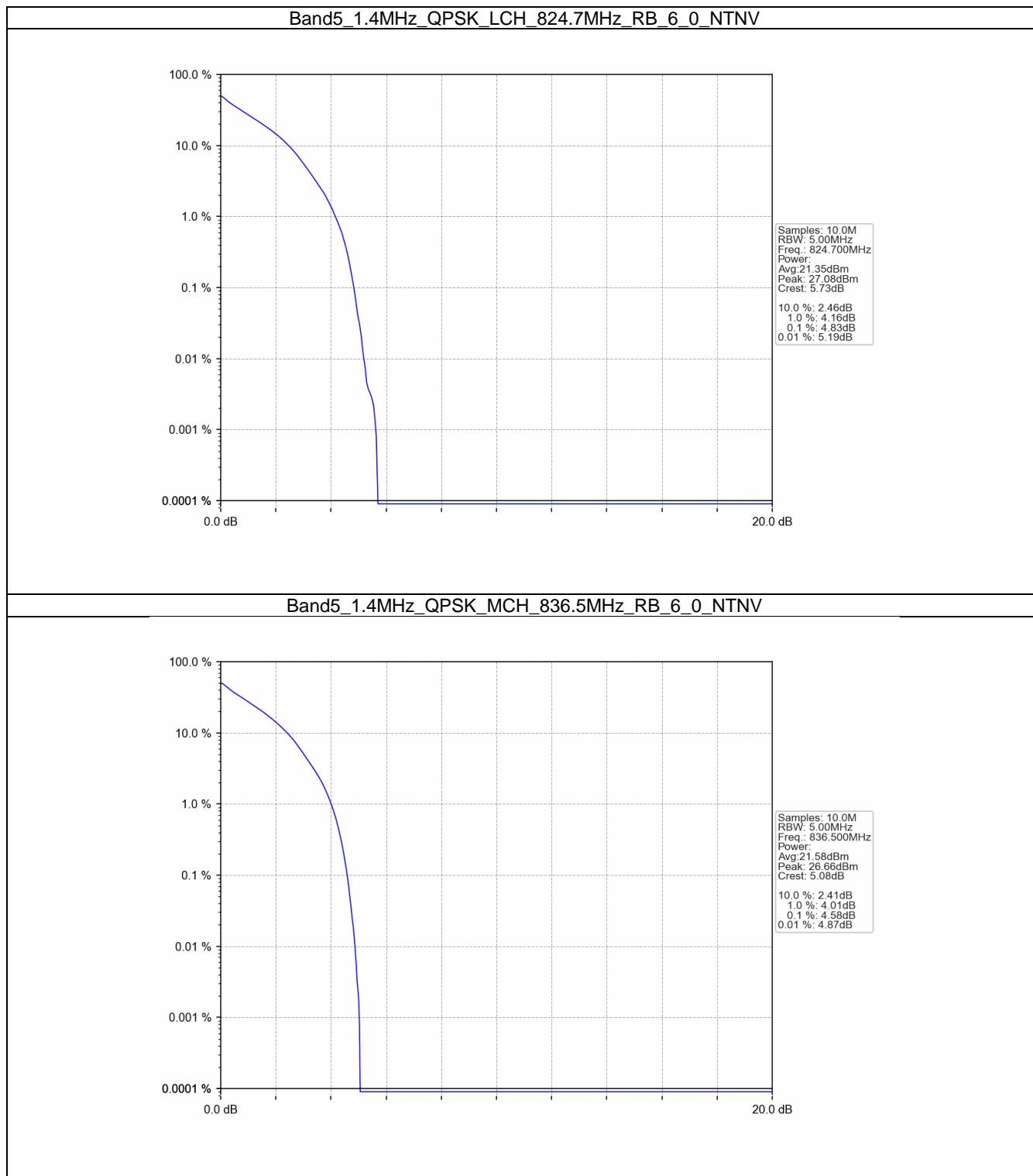
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	9.16	<=13	Pass
	836.5	25	0	4.97	<=13	Pass
	846.5	25	0	4.87	<=13	Pass
16QAM	826.5	25	0	5.78	<=13	Pass
	836.5	25	0	5.68	<=13	Pass
	846.5	25	0	5.62	<=13	Pass

#### 5.1.4 B5\_10MHz

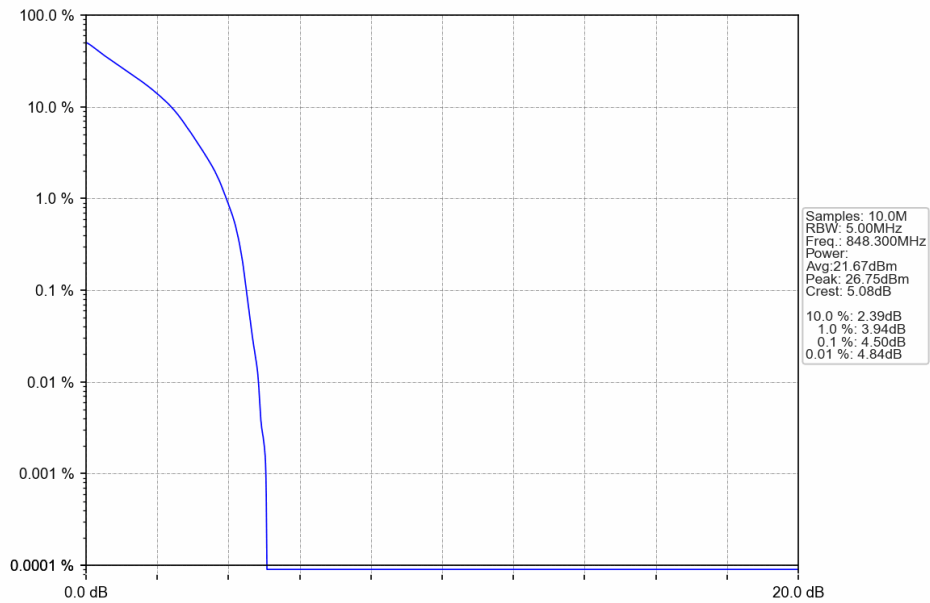
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	4.97	<=13	Pass
	836.5	50	0	4.89	<=13	Pass
	844	50	0	8.36	<=13	Pass

## 5.2 Test Graph

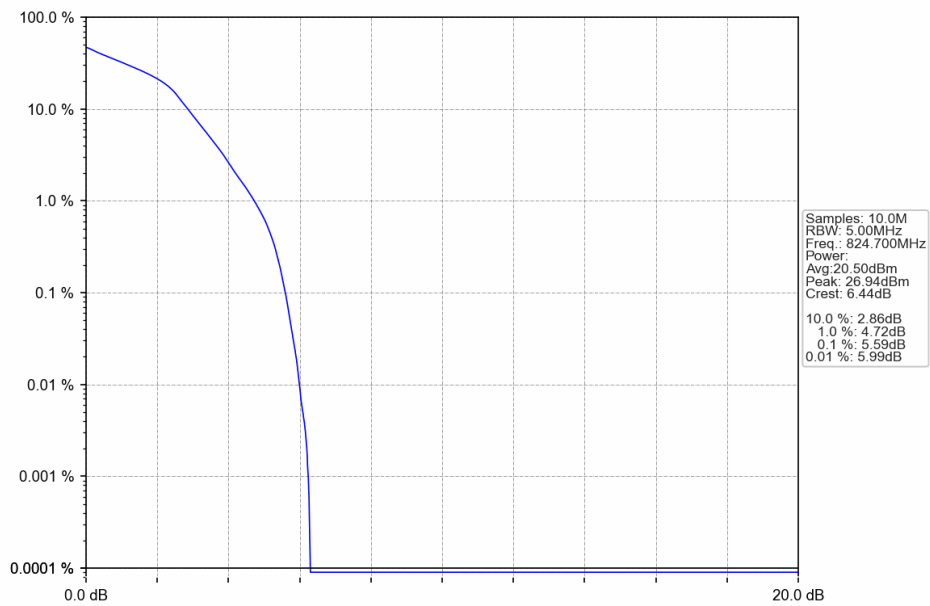
### 5.2.1 B5\_1.4MHz



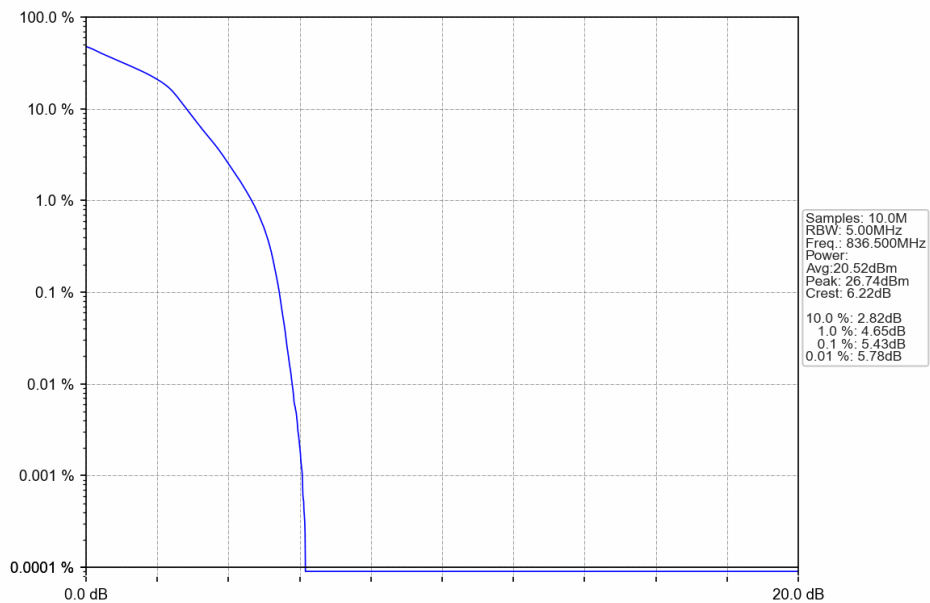
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



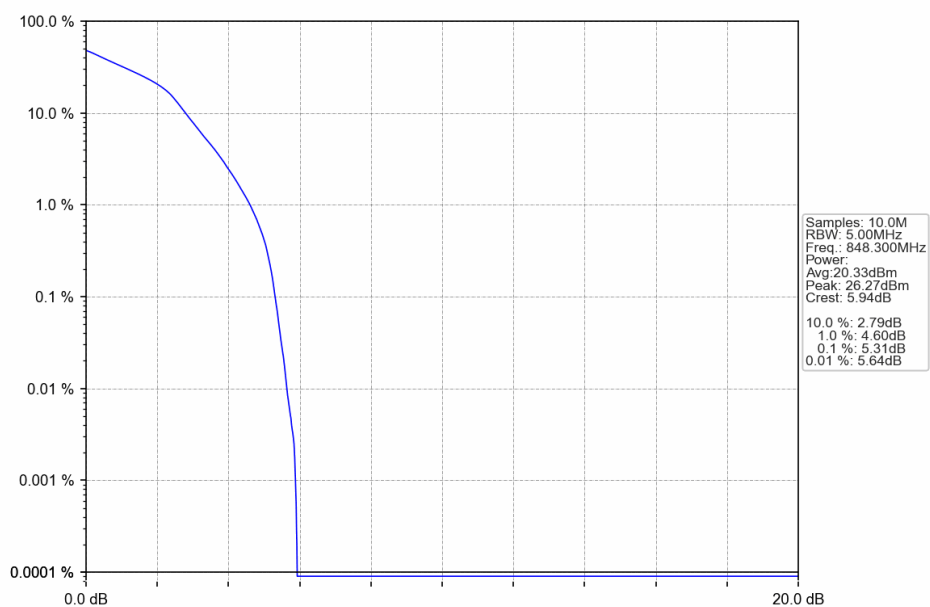
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



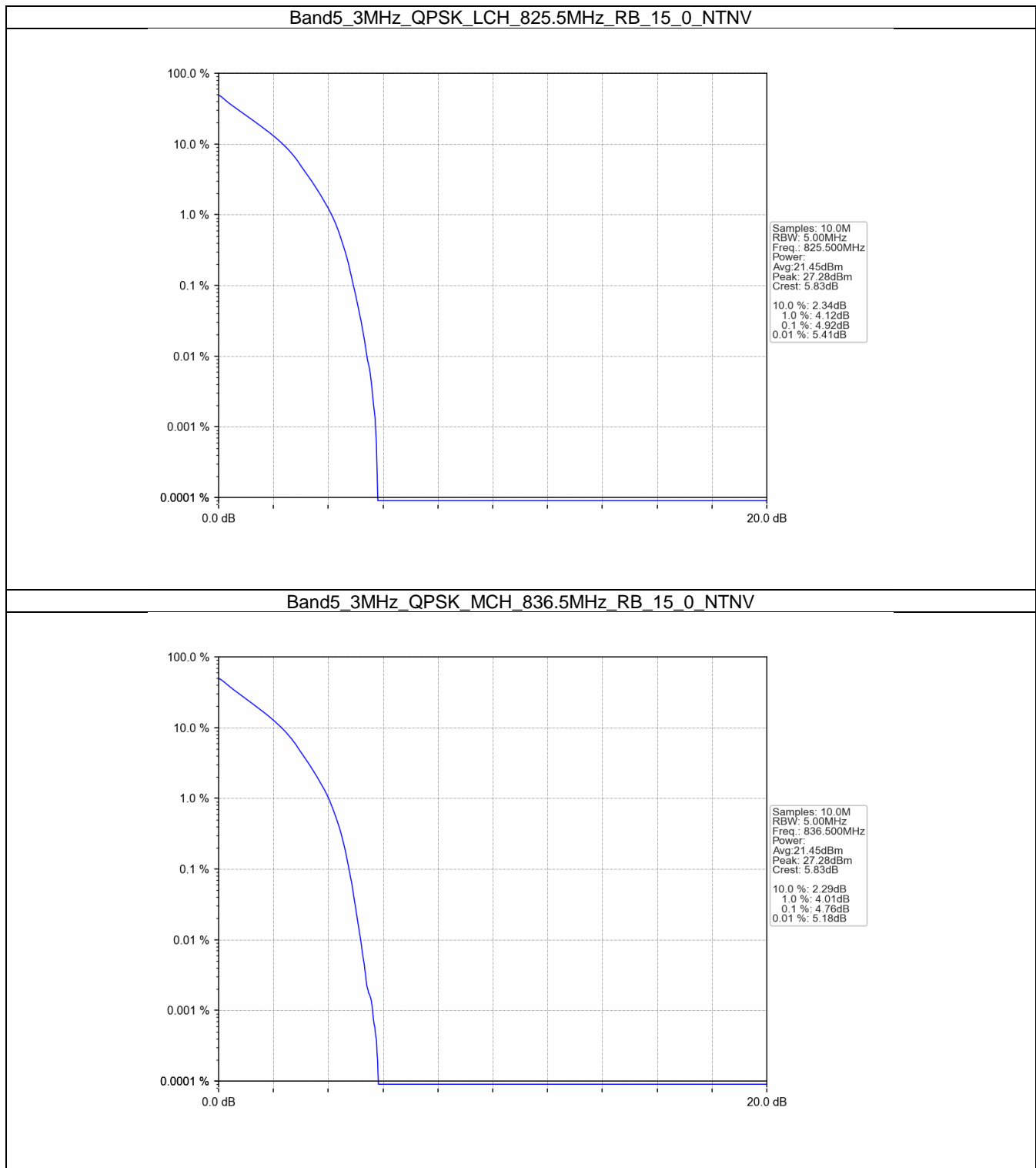
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



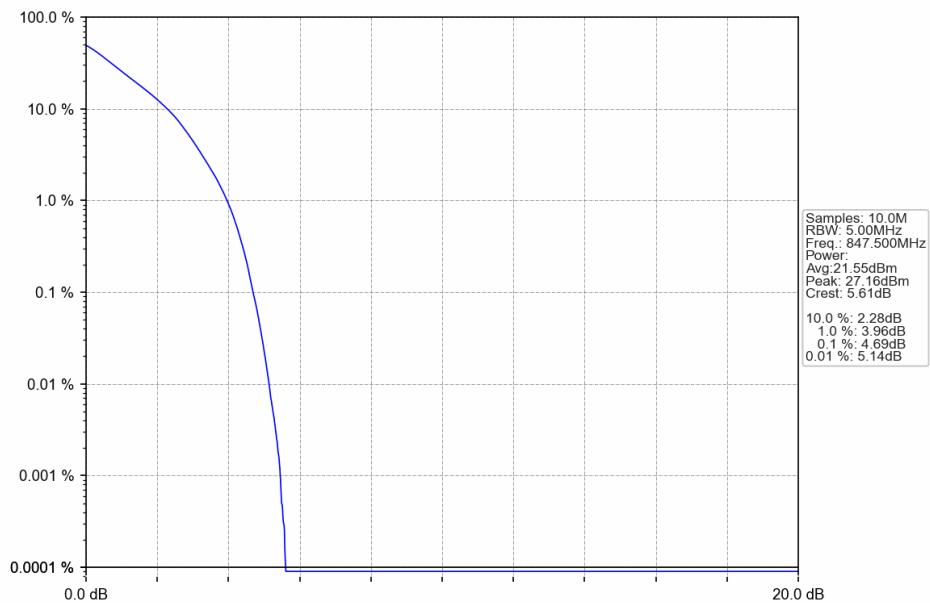
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



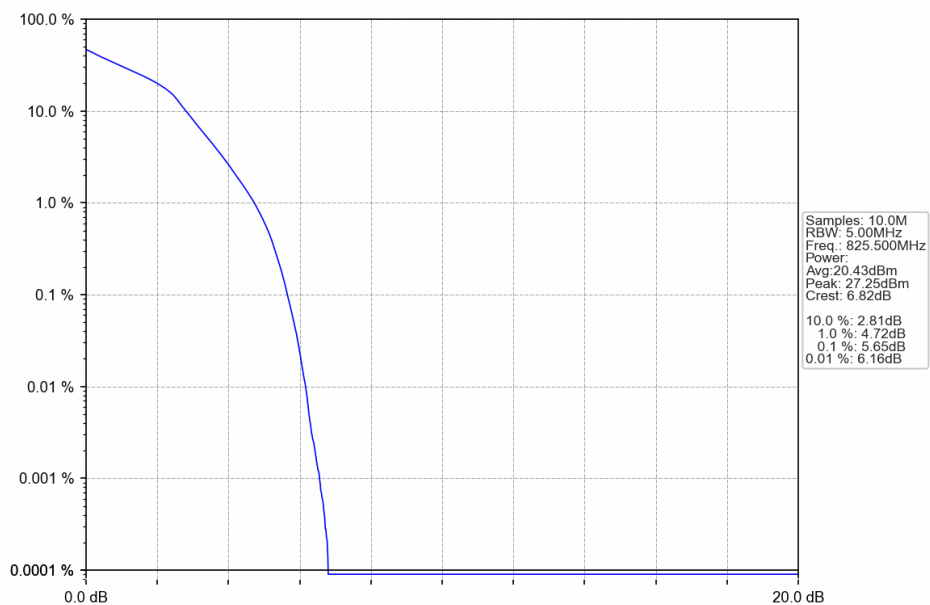
## 5.2.2 B5\_3MHz



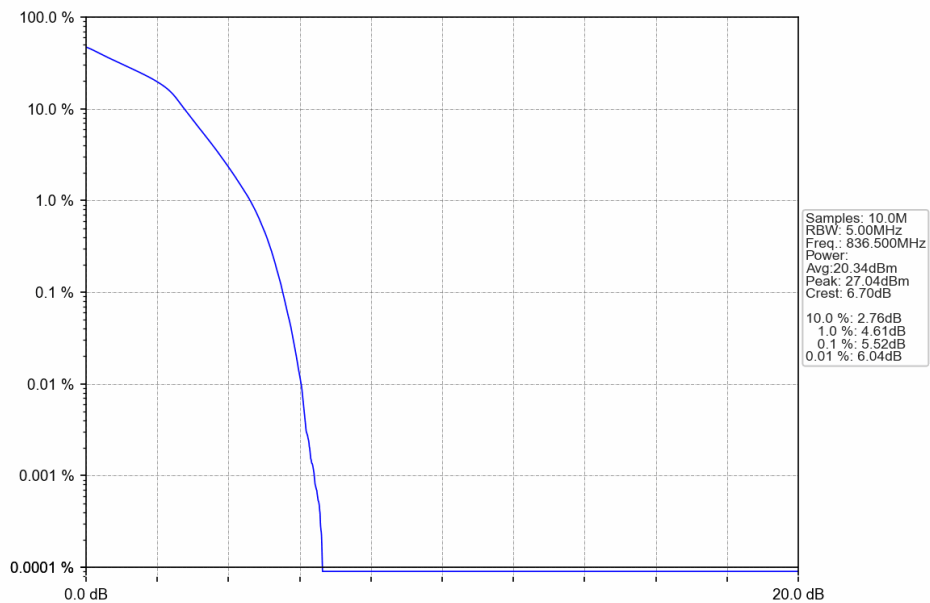
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



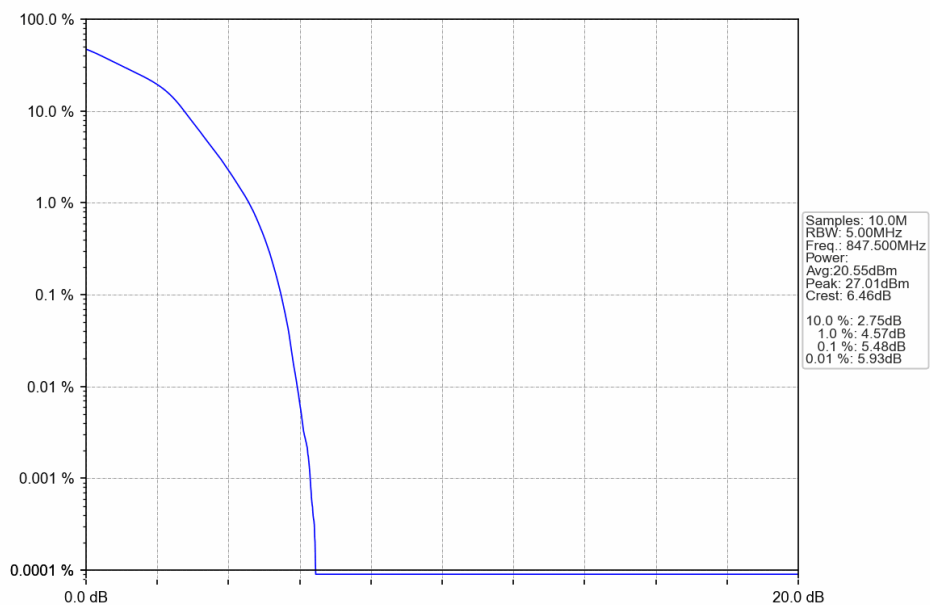
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

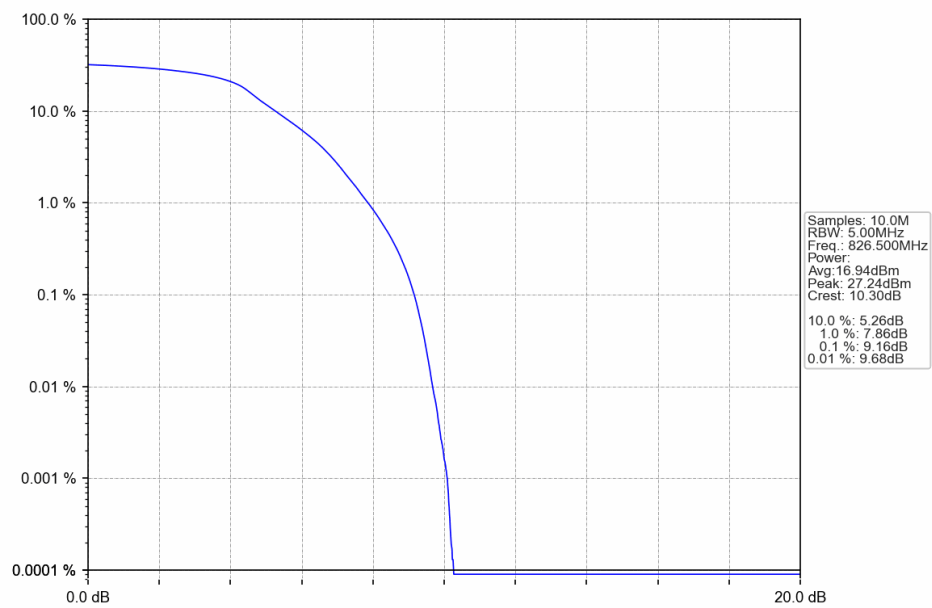


Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

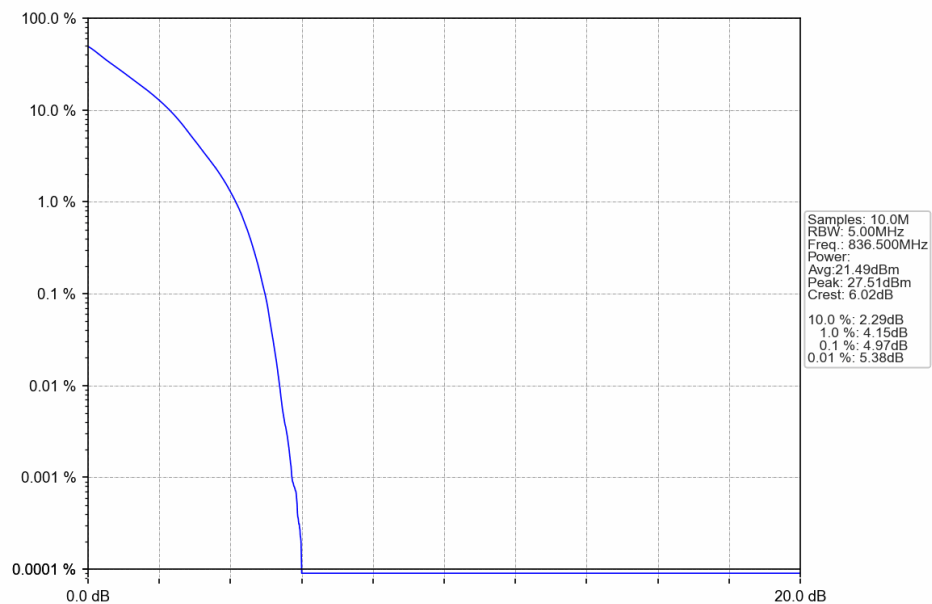


## 5.2.3 B5\_5MHz

Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

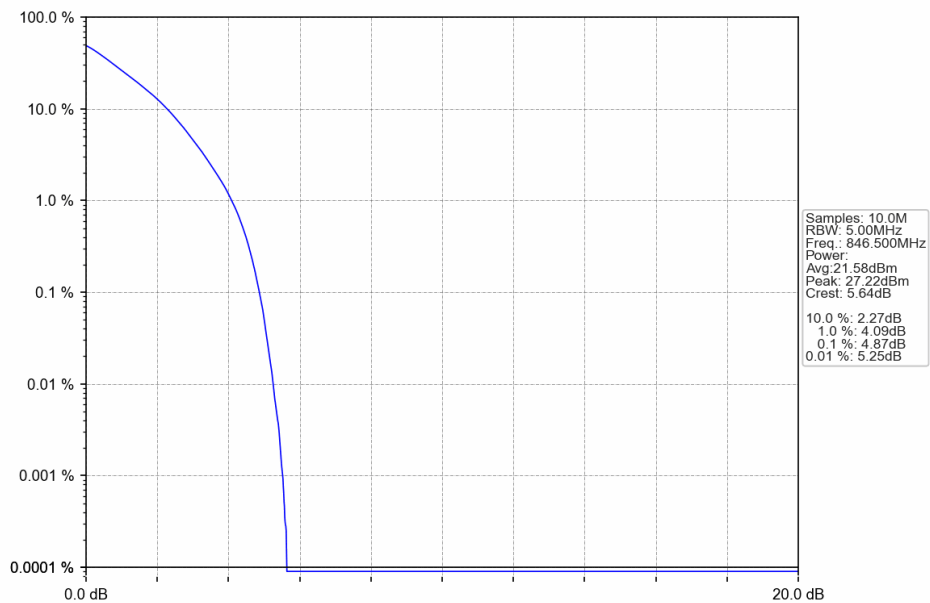


Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV

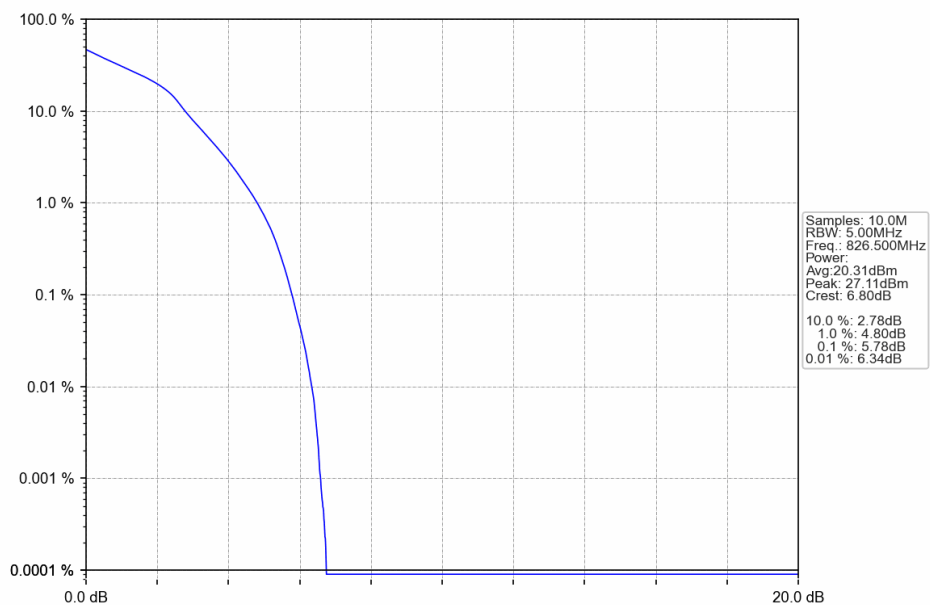




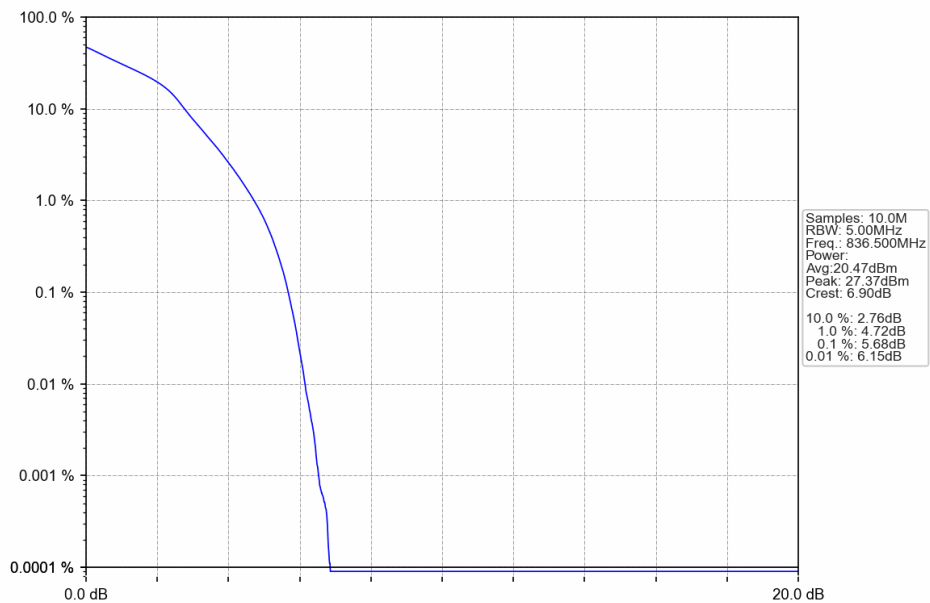
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



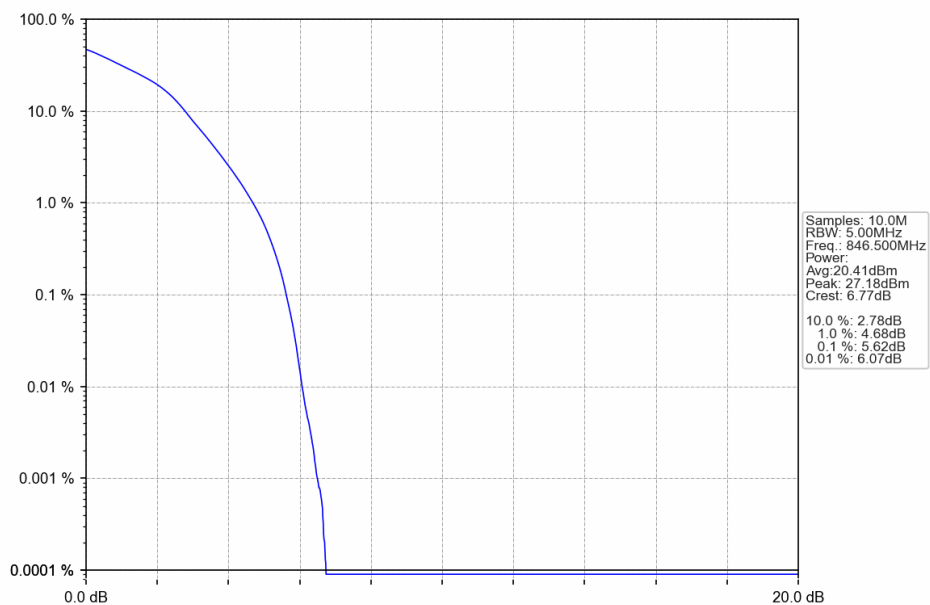
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



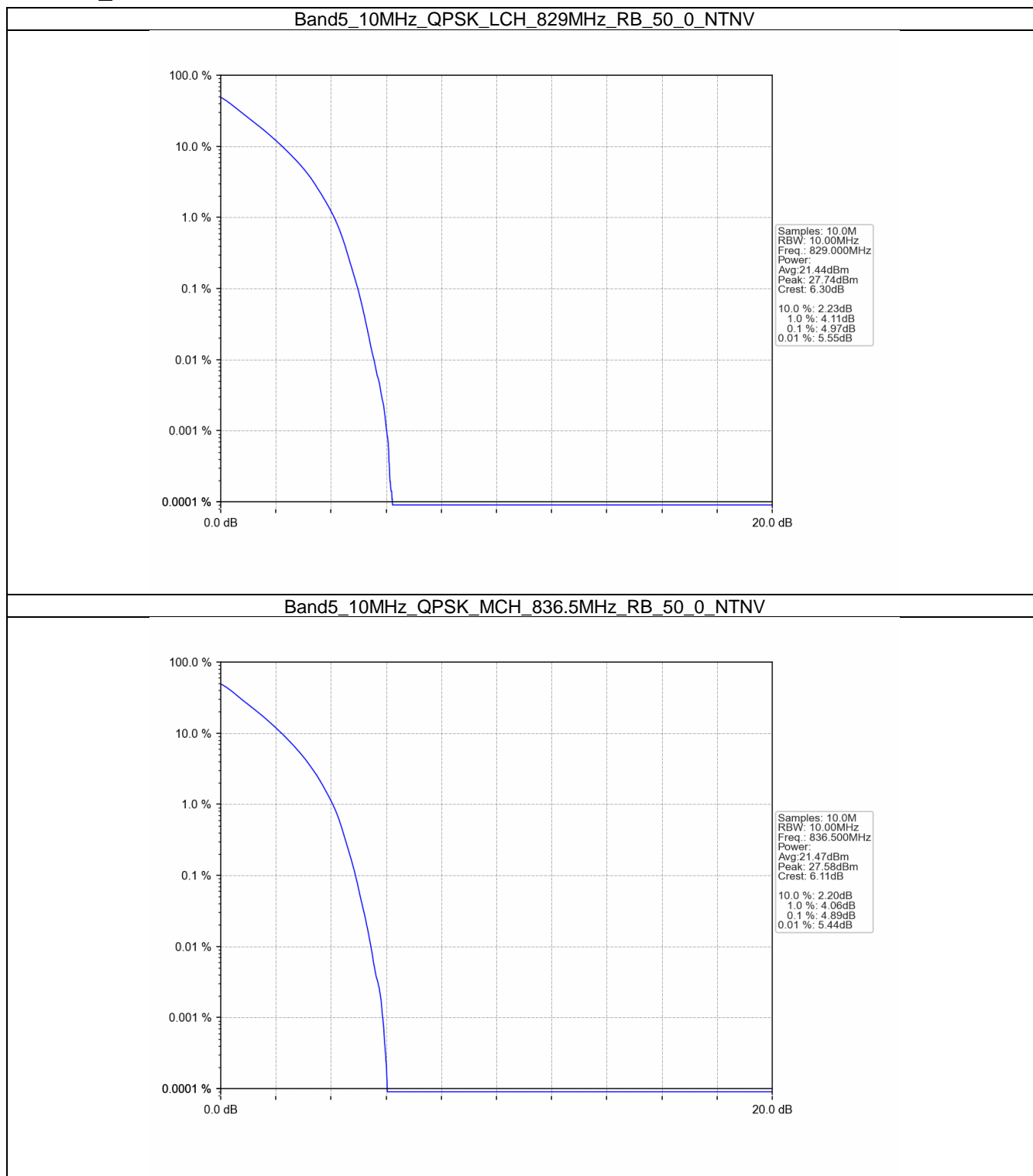
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV

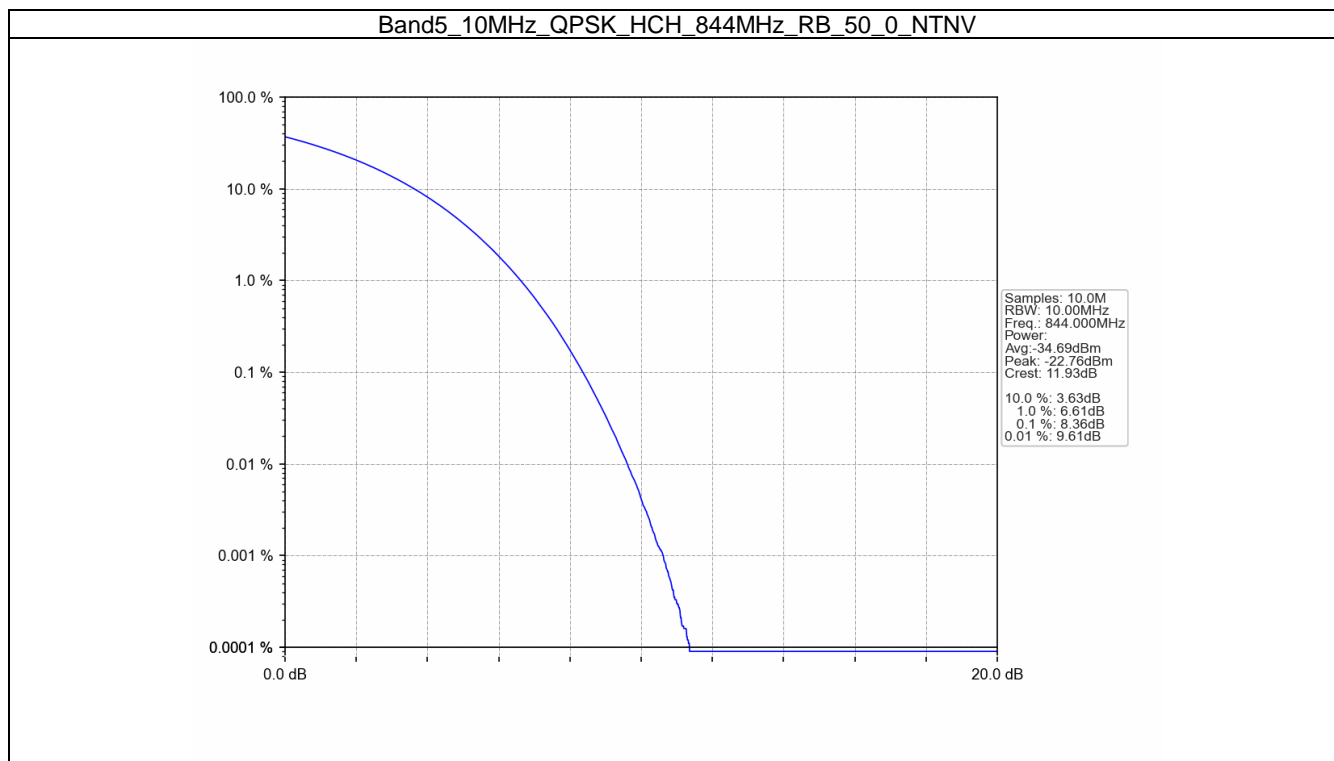


Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



## 5.2.4 B5\_10MHz





## 6. Spurious Emission

### 6.1 Test Result

#### 6.1.1 B5\_1.4MHz

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

#### 6.1.2 B5\_3MHz

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

#### 6.1.3 B5\_5MHz

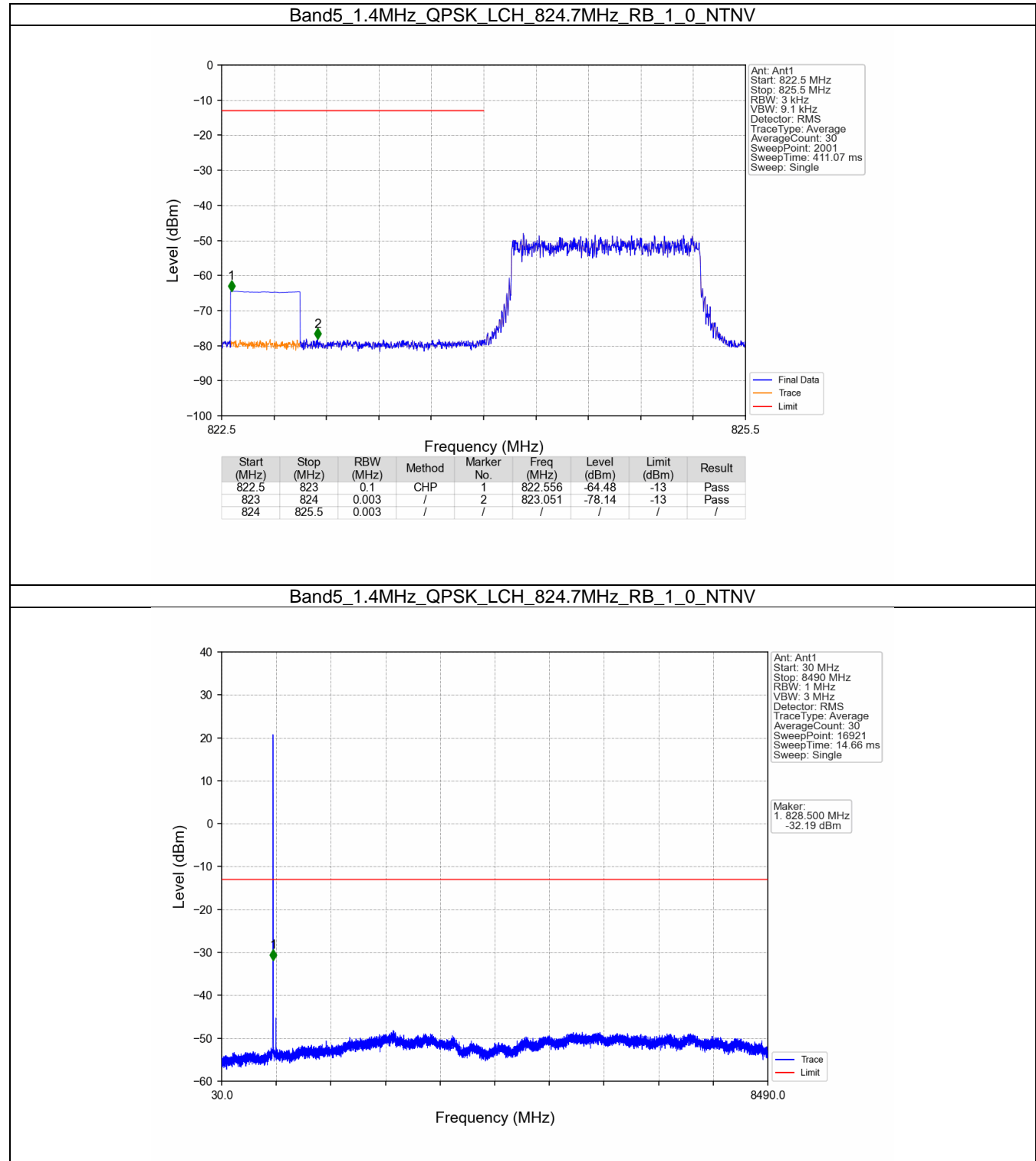
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

**6.1.4 B5\_10MHz**

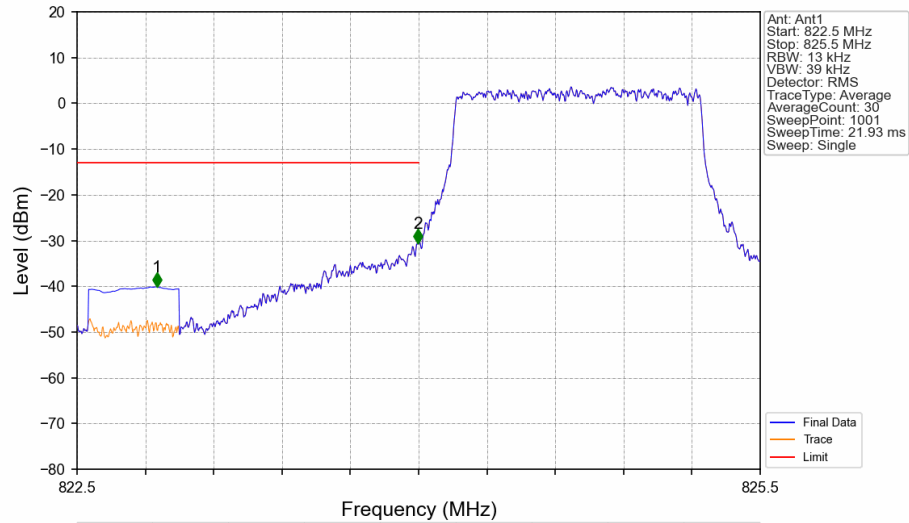
Band: 5 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	829	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	836.5	1	0	Refer To Test Graph	Pass
	844	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass

## 6.2 Test Graph

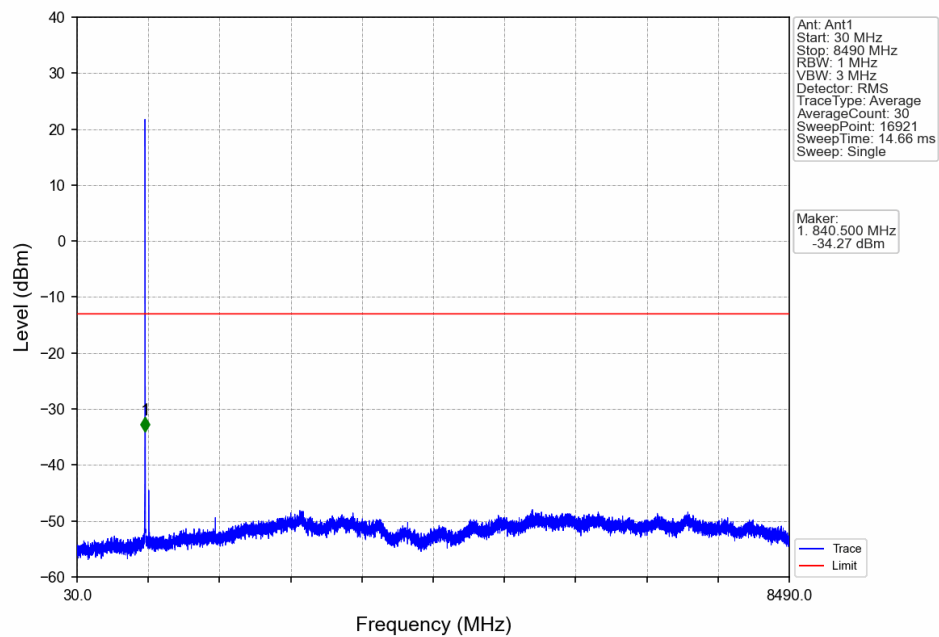
### 6.2.1 B5\_1.4MHz



Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

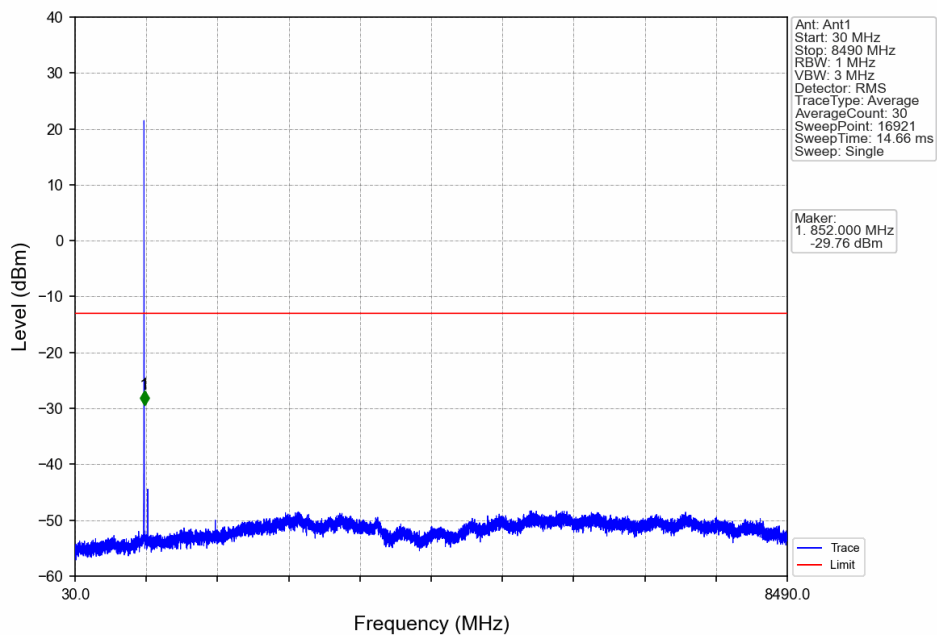


Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV

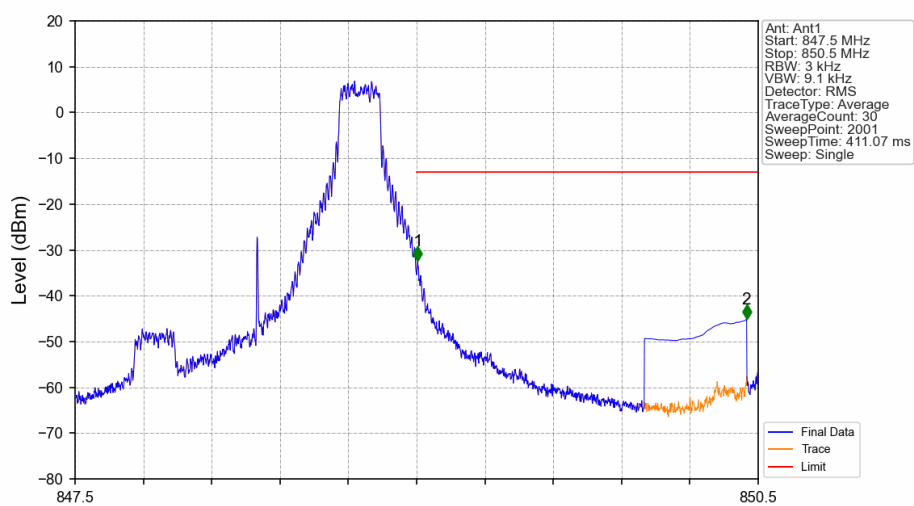




Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_0\_NTNV

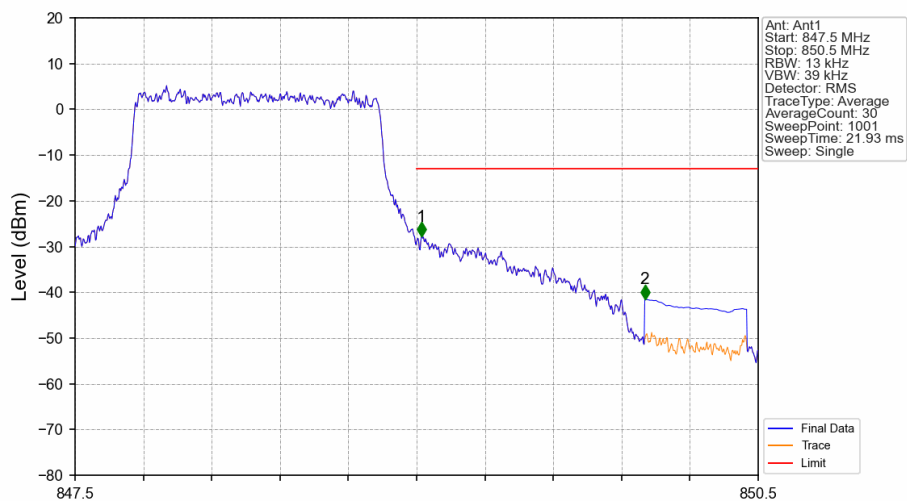


Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_5\_NTNV



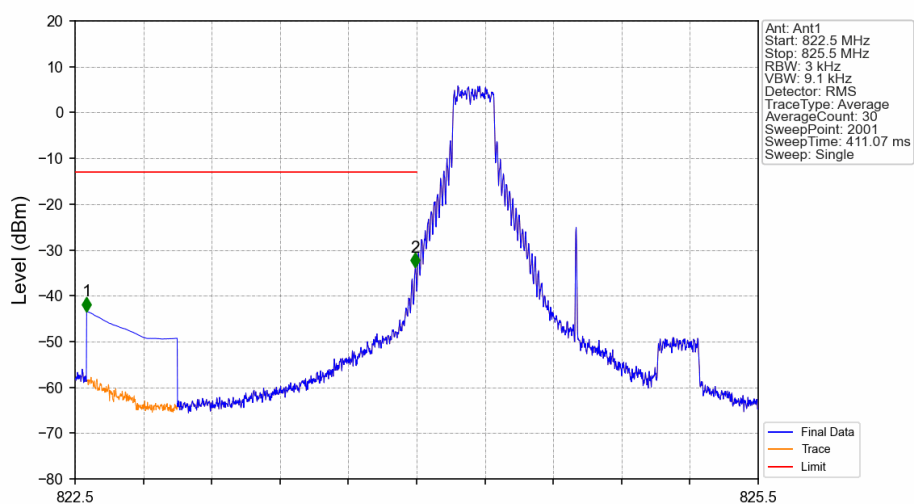
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	1	849.005	-32.41	-13	Pass
849	850	0.003	/	1	849.005	-32.41	-13	Pass
850	850.5	0.1	CHP	2	850.449	-45.09	-13	Pass

Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV

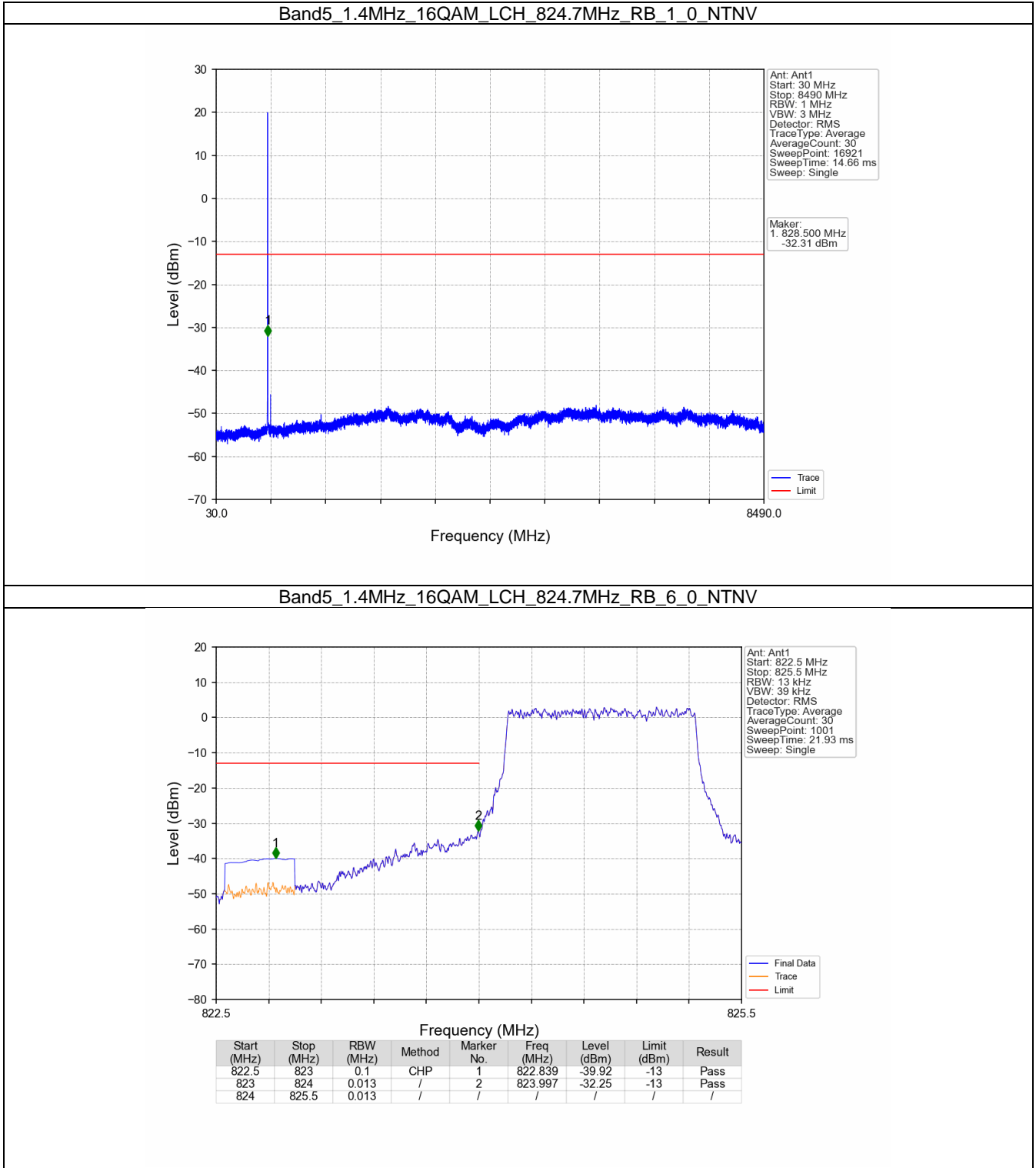


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.021	-27.81	-13	Pass
850	850.5	0.1	CHP	2	850.002	-41.46	-13	Pass

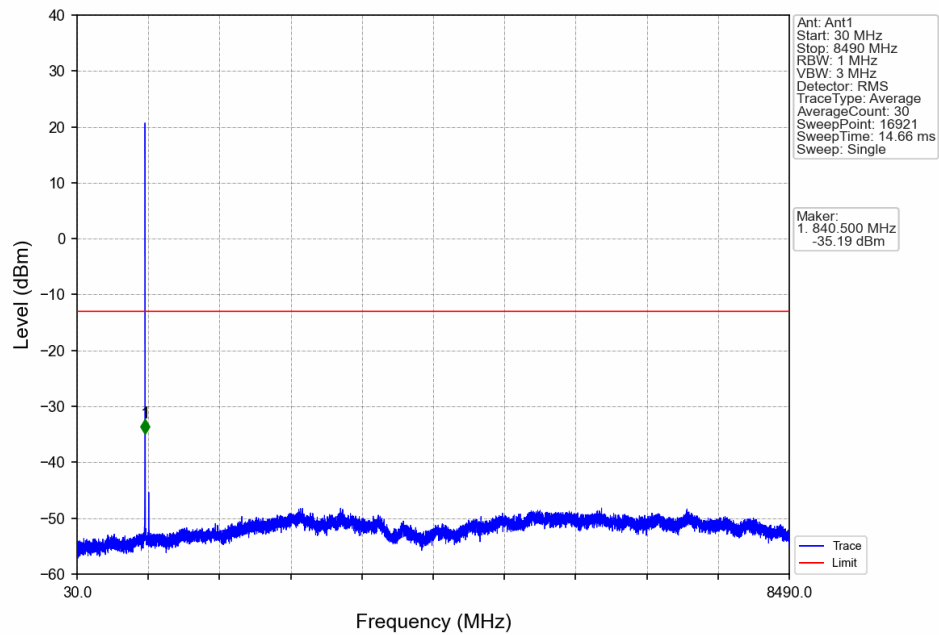
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV



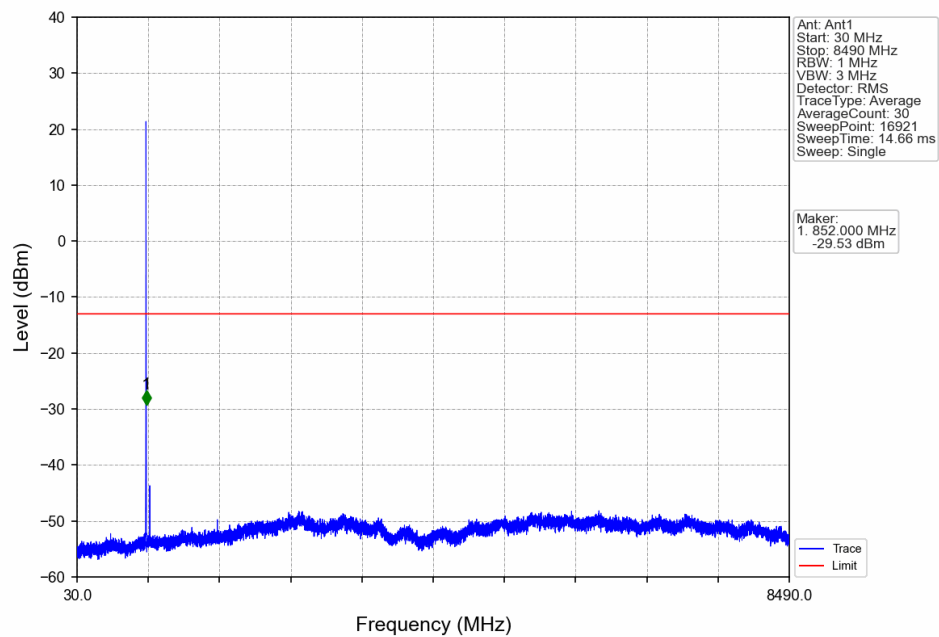
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-43.41	-13	Pass
823	824	0.003	/	2	823.994	-33.81	-13	Pass
824	825.5	0.003	/	/	/	/	/	/



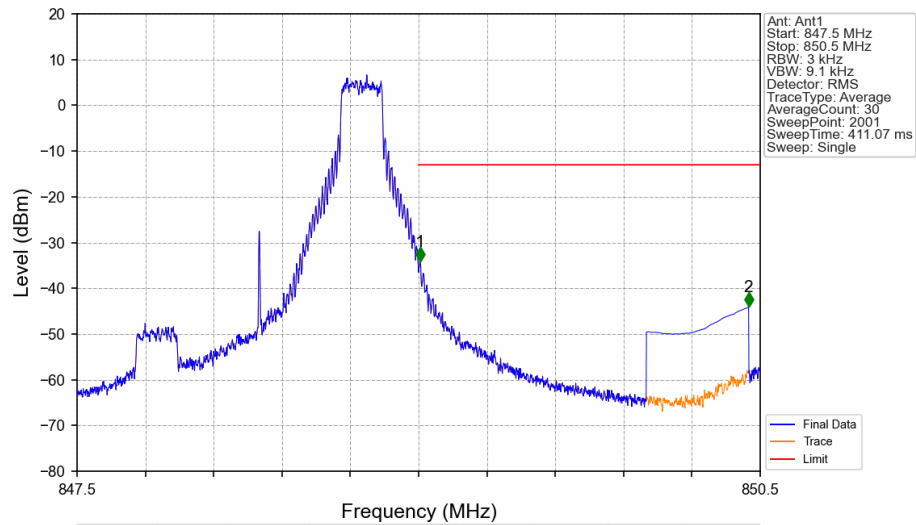
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



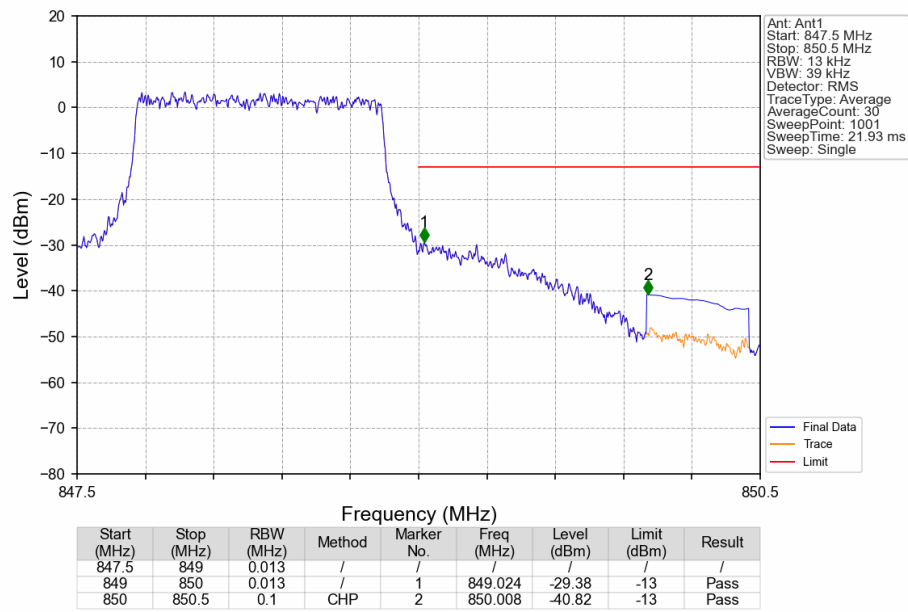
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



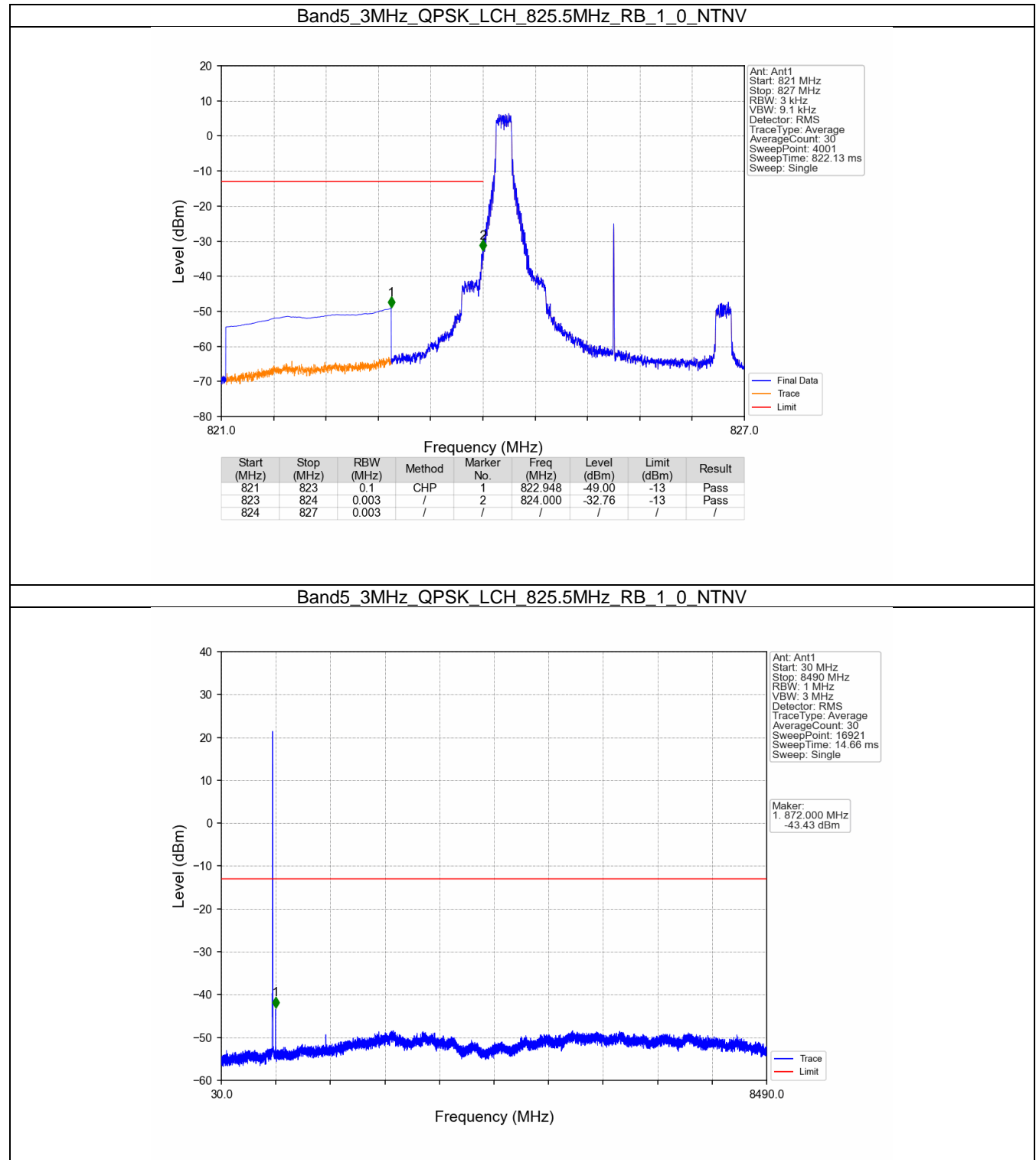
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_5\_NTNV



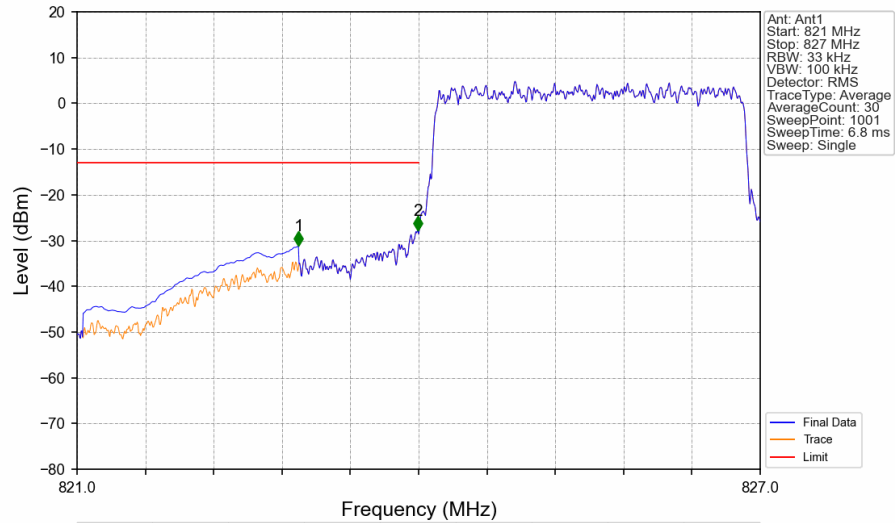
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



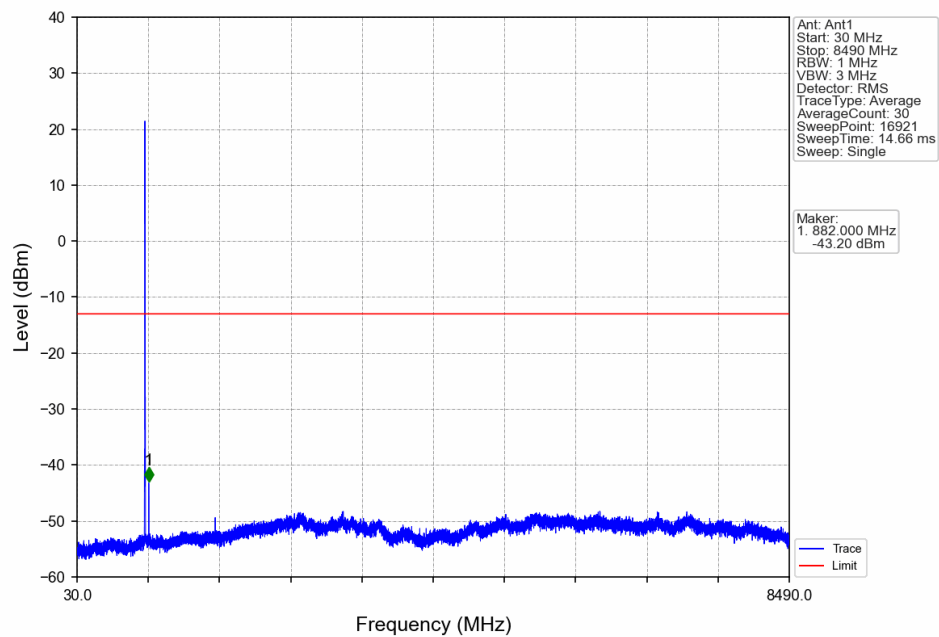
## 6.2.2 B5\_3MHz



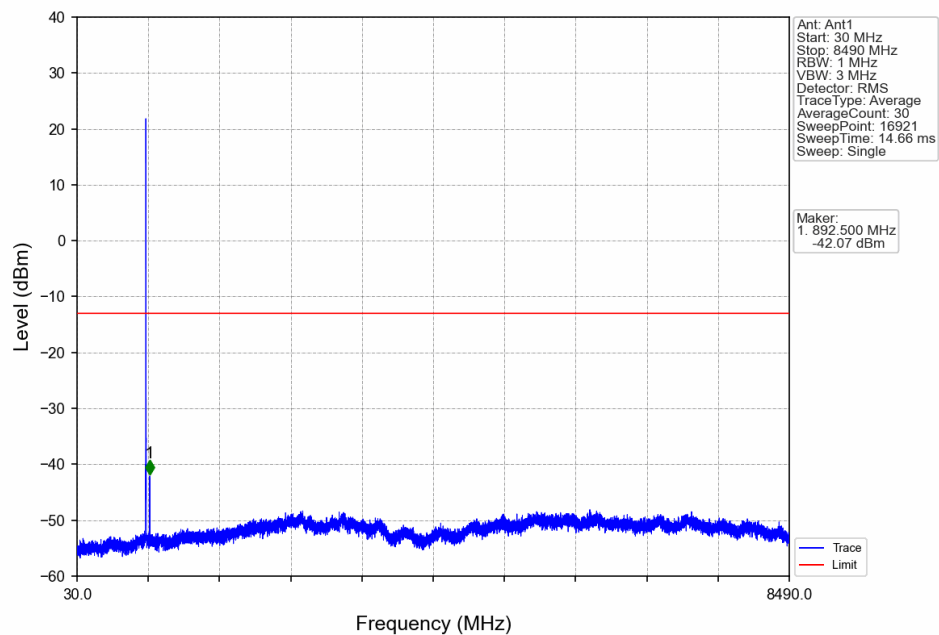
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



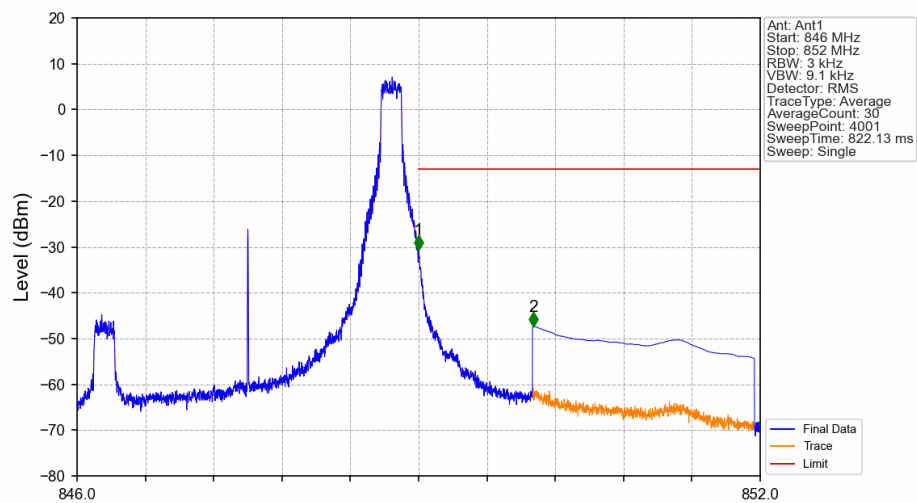
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



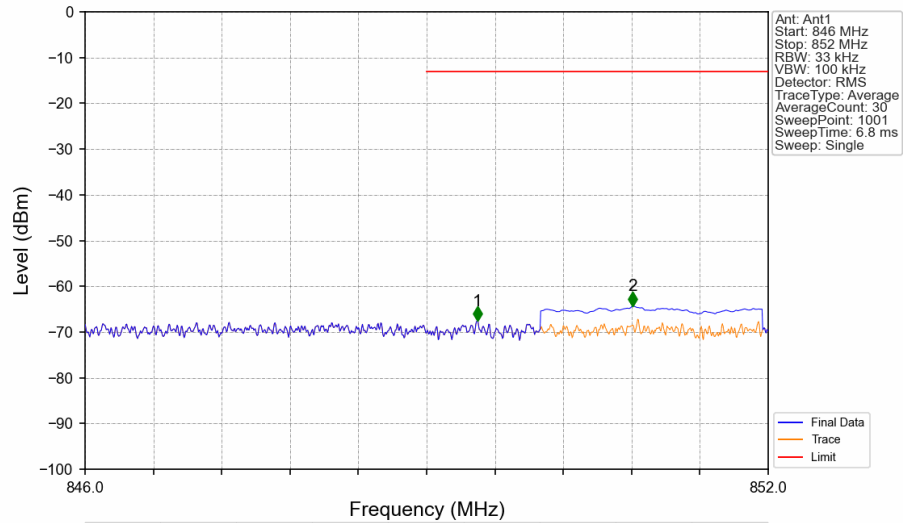
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



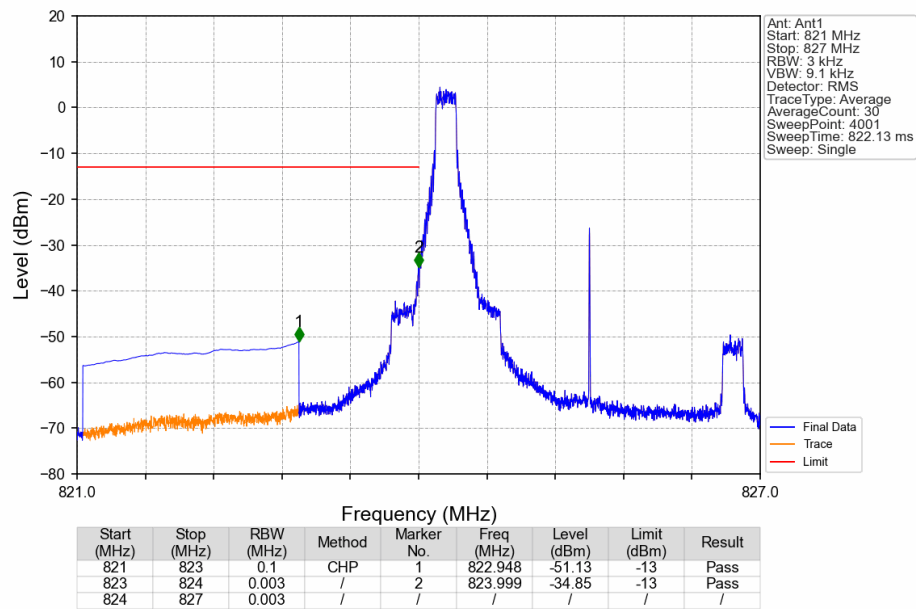
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.000	-30.61	-13	Pass
850	852	0.1	CHP	2	850.006	-47.41	-13	Pass



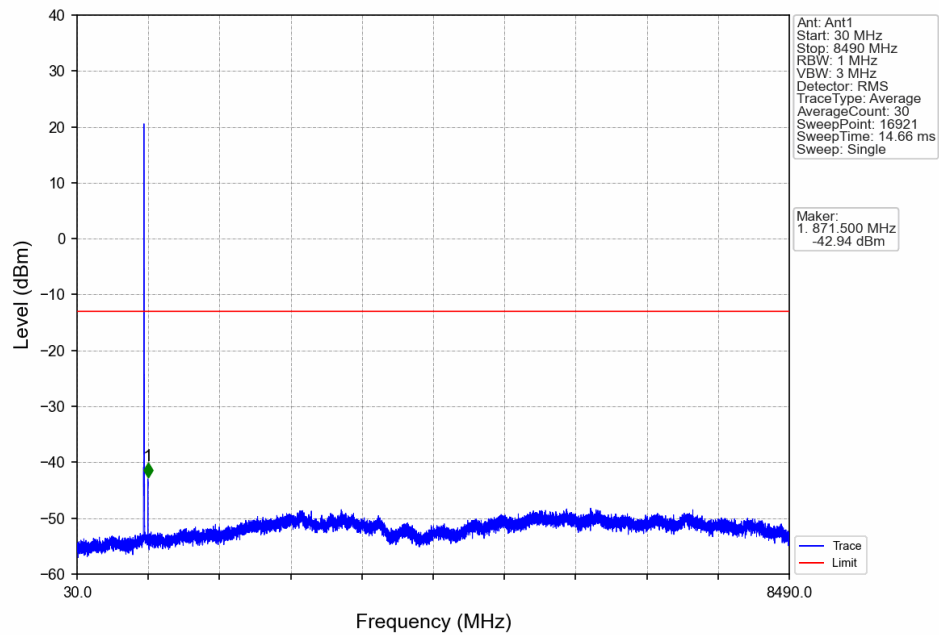
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



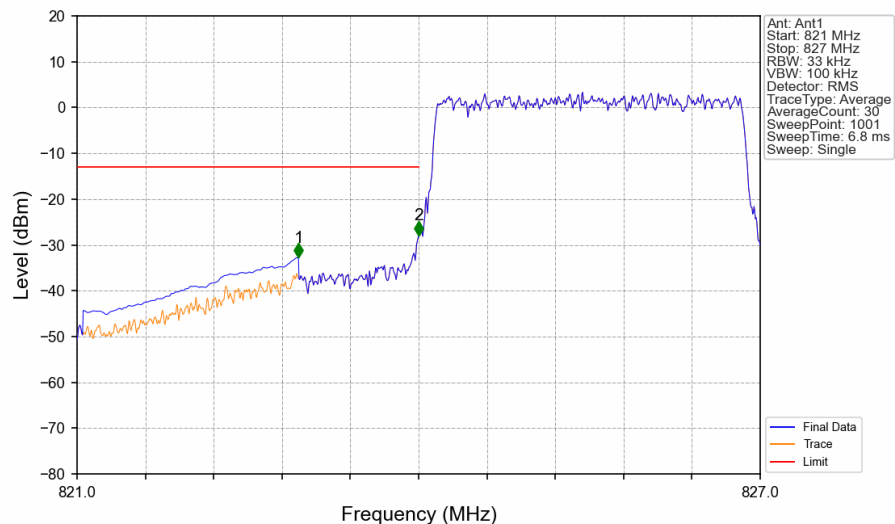
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV

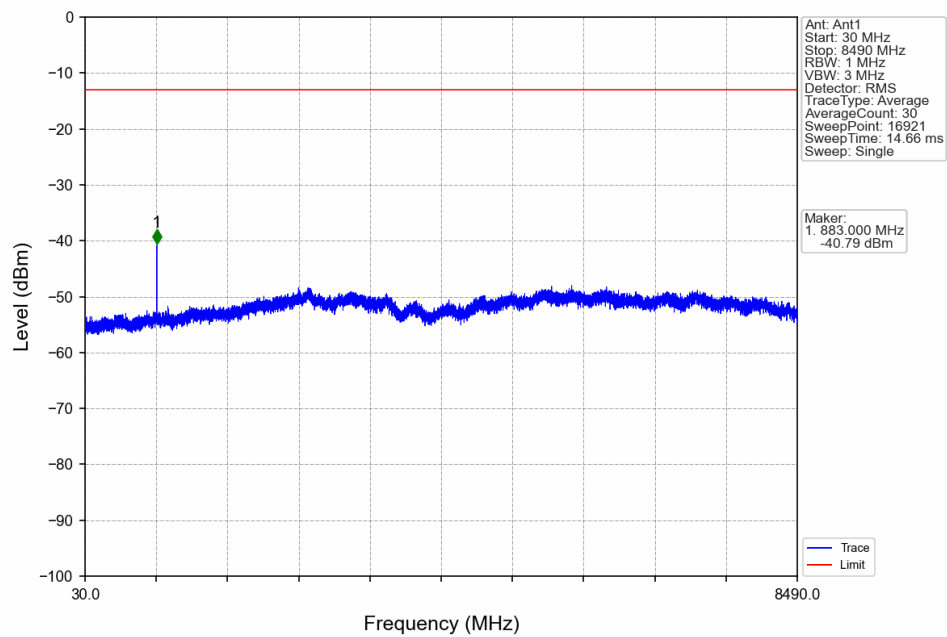


Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV

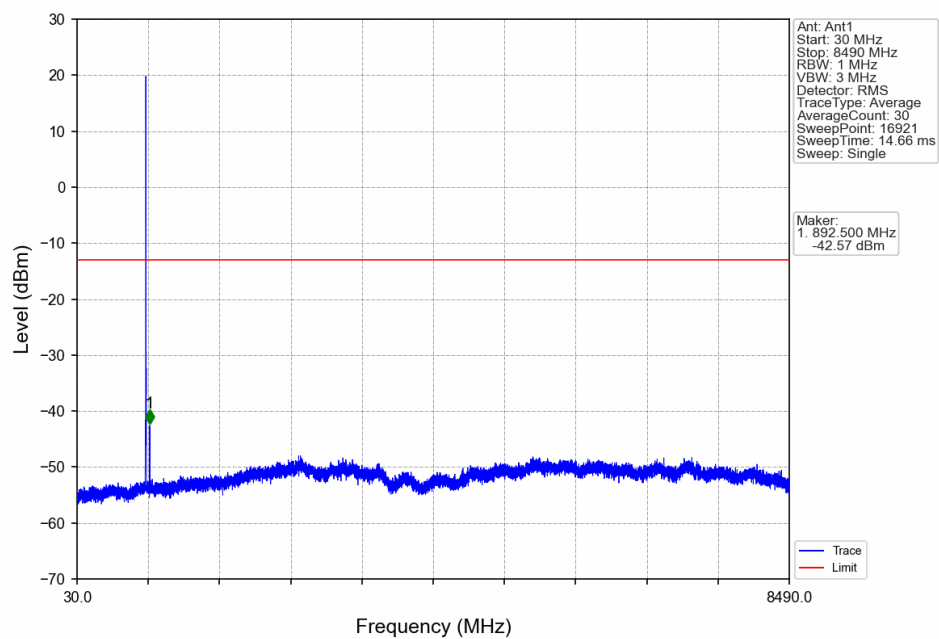


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.944	-32.74	-13	Pass
823	824	0.033	/	2	824.000	-27.89	-13	Pass
824	827	0.033	/	/	/	/	/	/

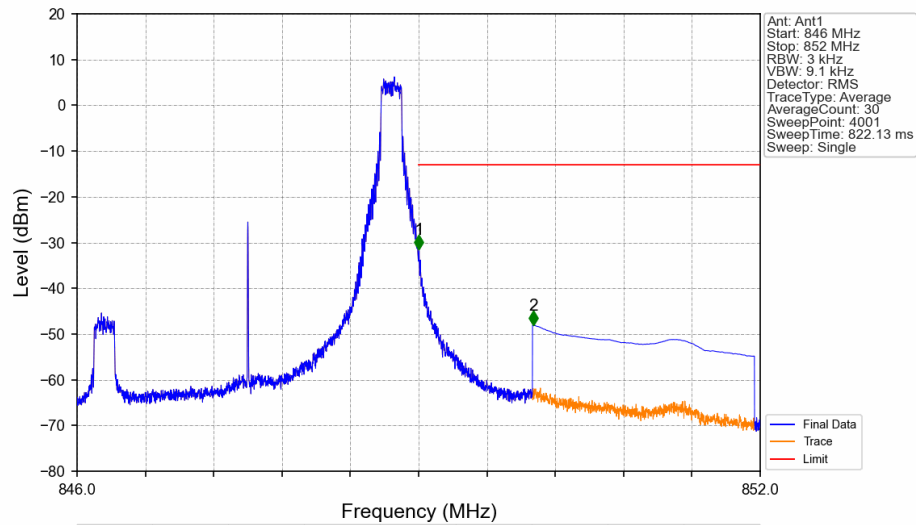
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



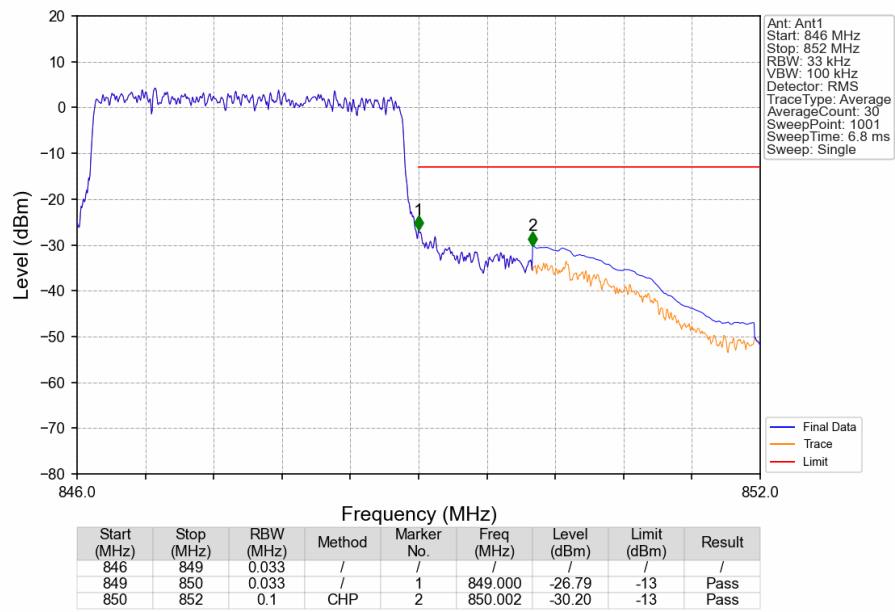
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_14\_NTNV

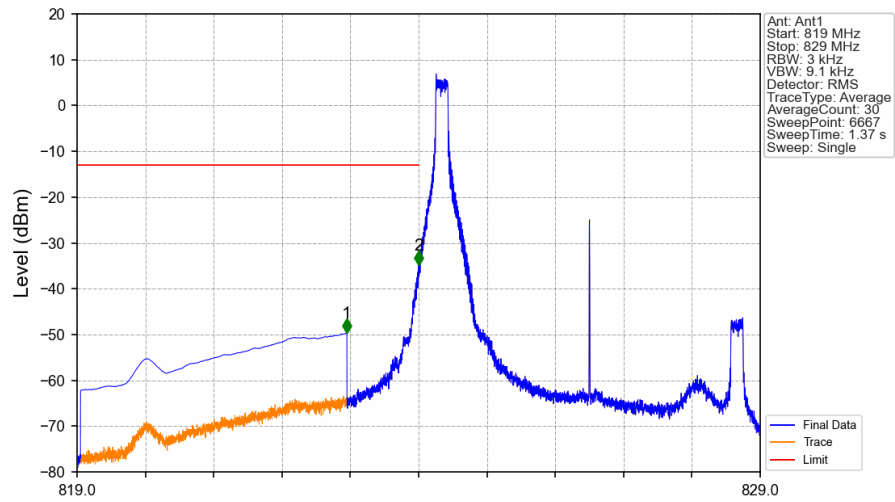


Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



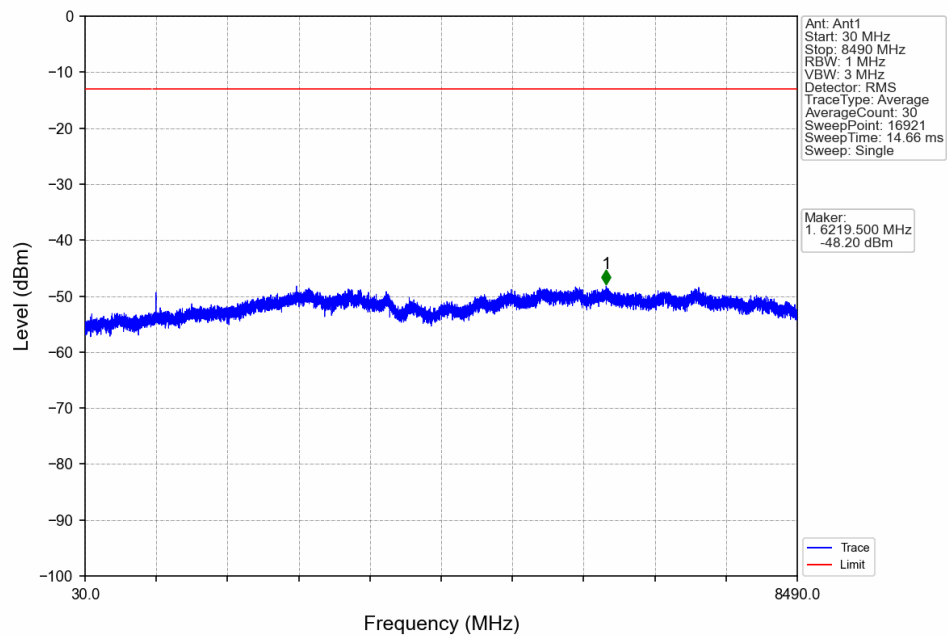
## 6.2.3 B5\_5MHz

Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

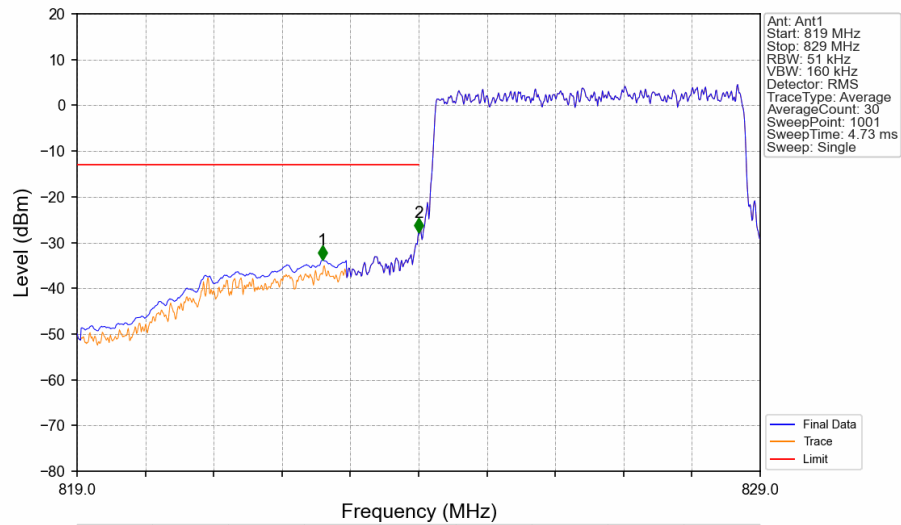


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.942	-49.72	-13	Pass
823	824	0.003	/	2	824.000	-34.86	-13	Pass
824	829	0.003	/	/	/	/	/	/

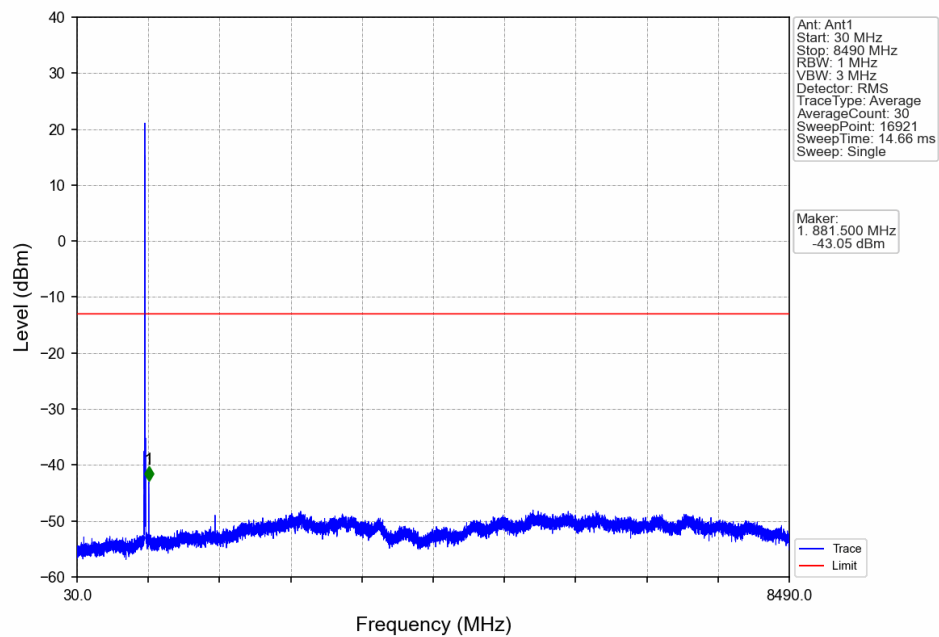
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

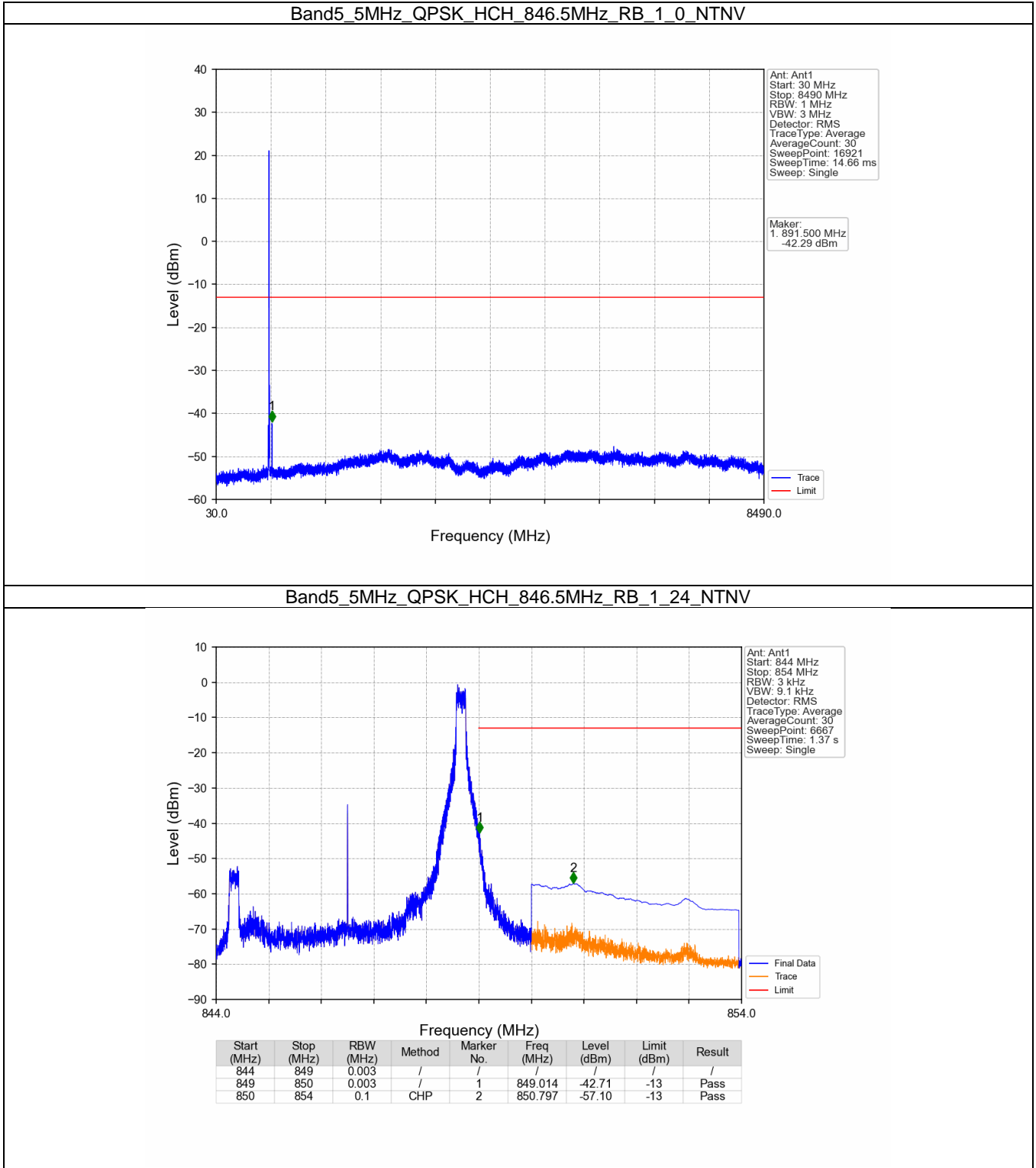


Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

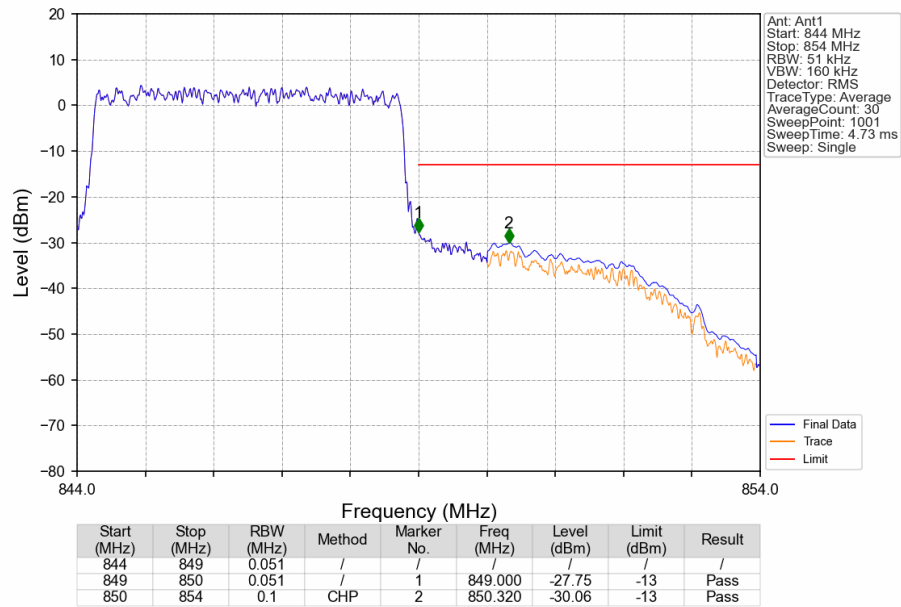


Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV

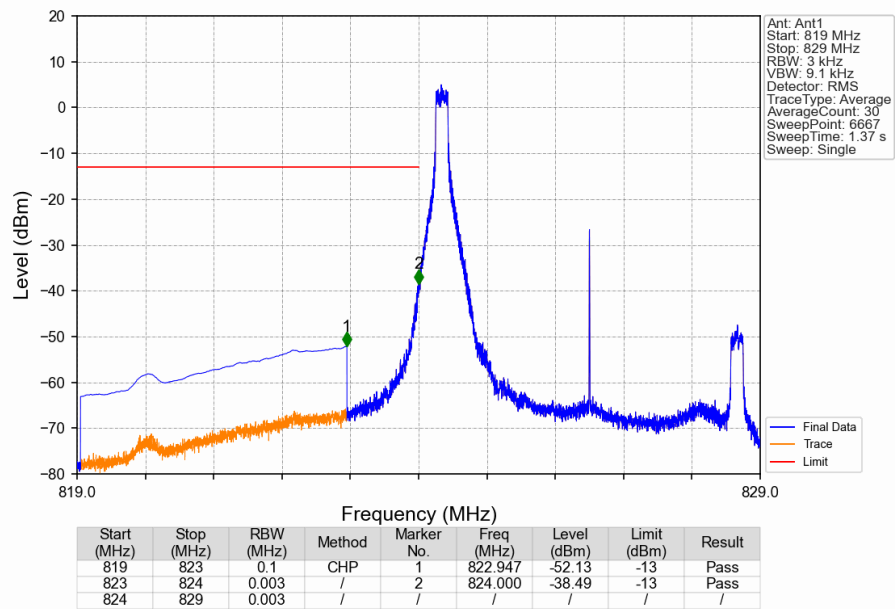




Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

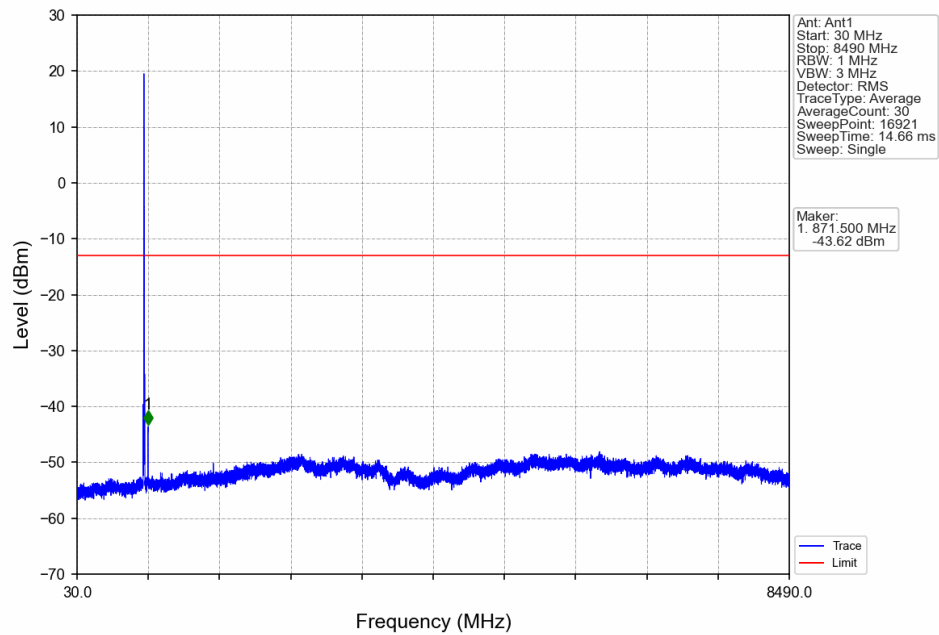


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

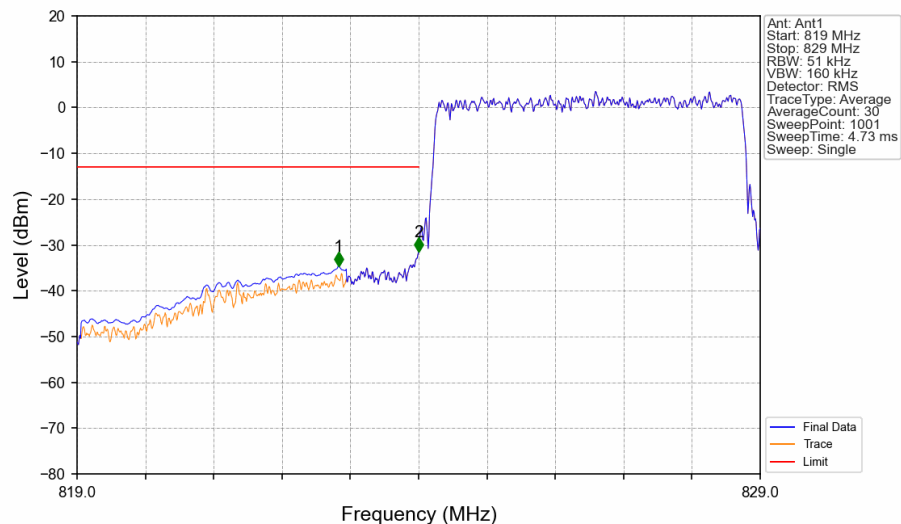




Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV

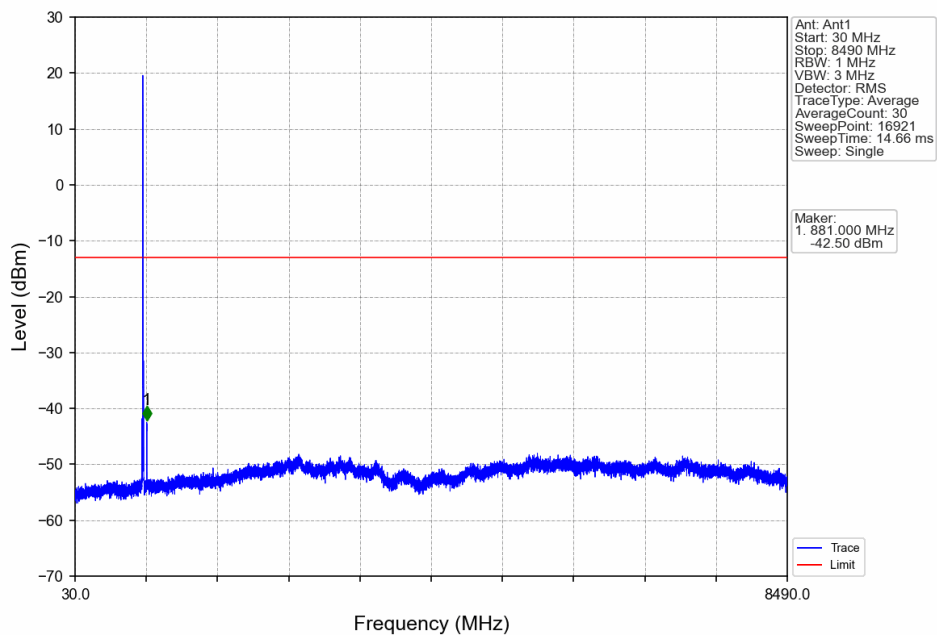


Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

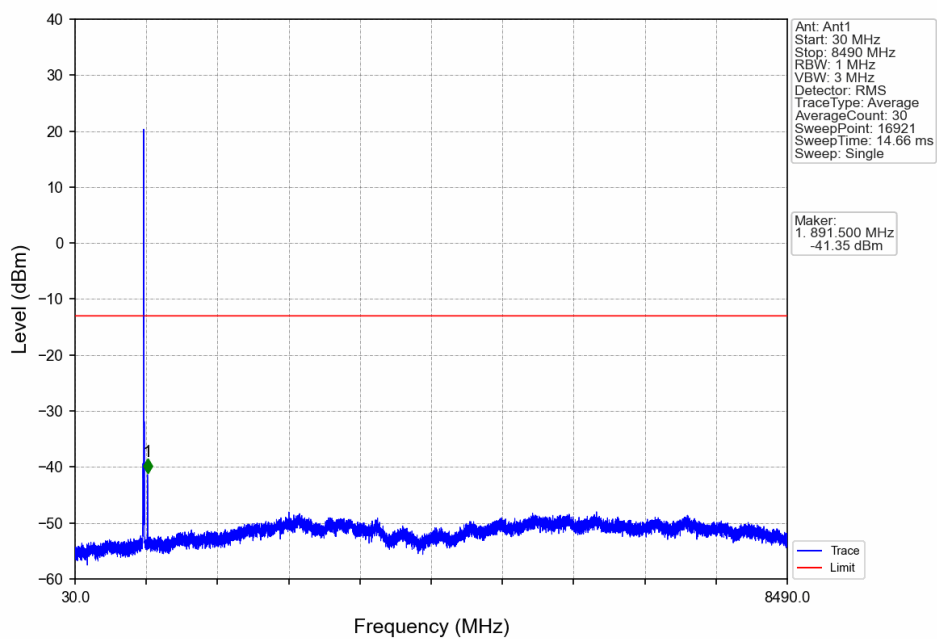


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.830	-34.63	-13	Pass
823	824	0.051	/	2	824.000	-31.50	-13	Pass
824	829	0.051	/	/	/	/	/	/

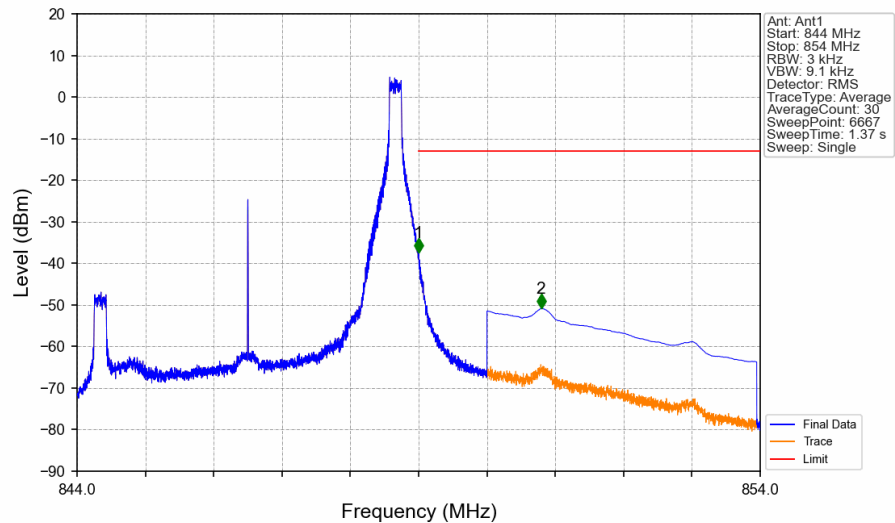
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



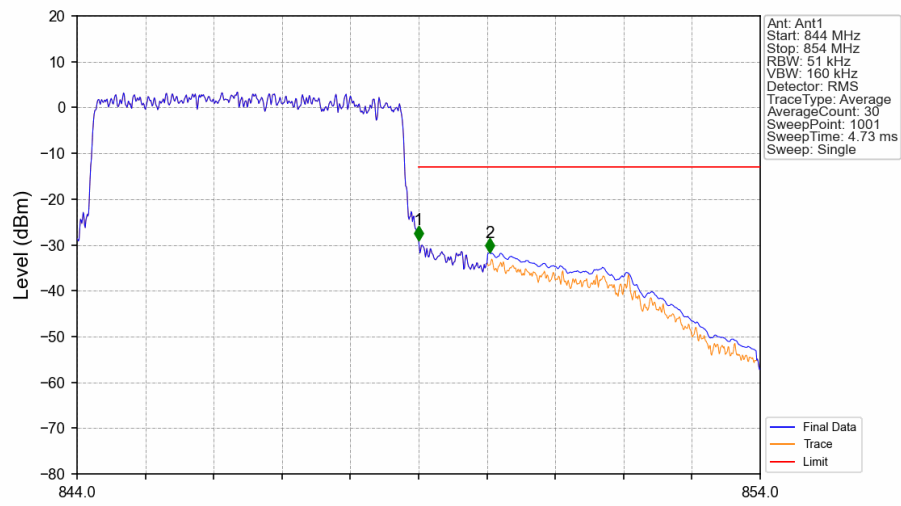
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_1\_24\_NTNV

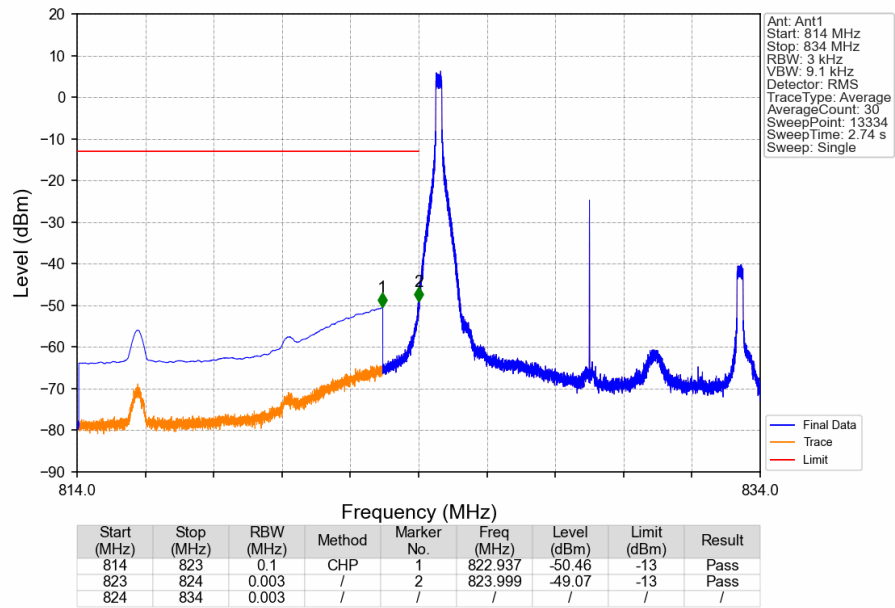


Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

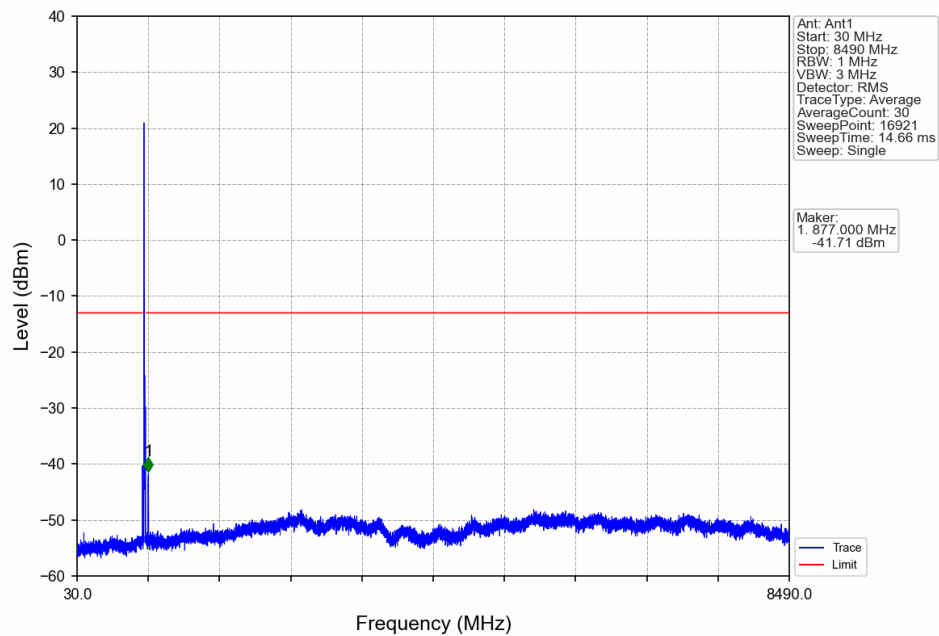


## 6.2.4 B5\_10MHz

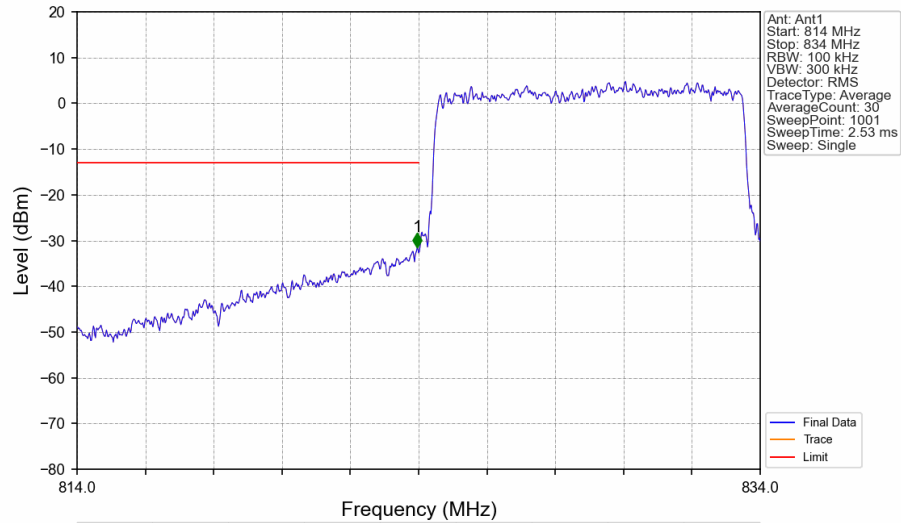
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_1\_0\_NTNV



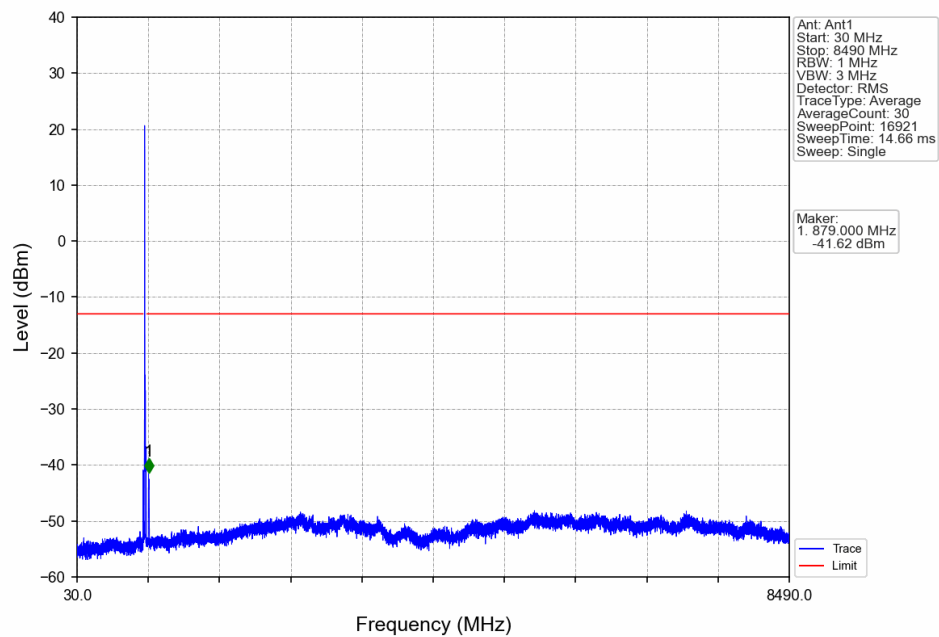
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_1\_0\_NTNV



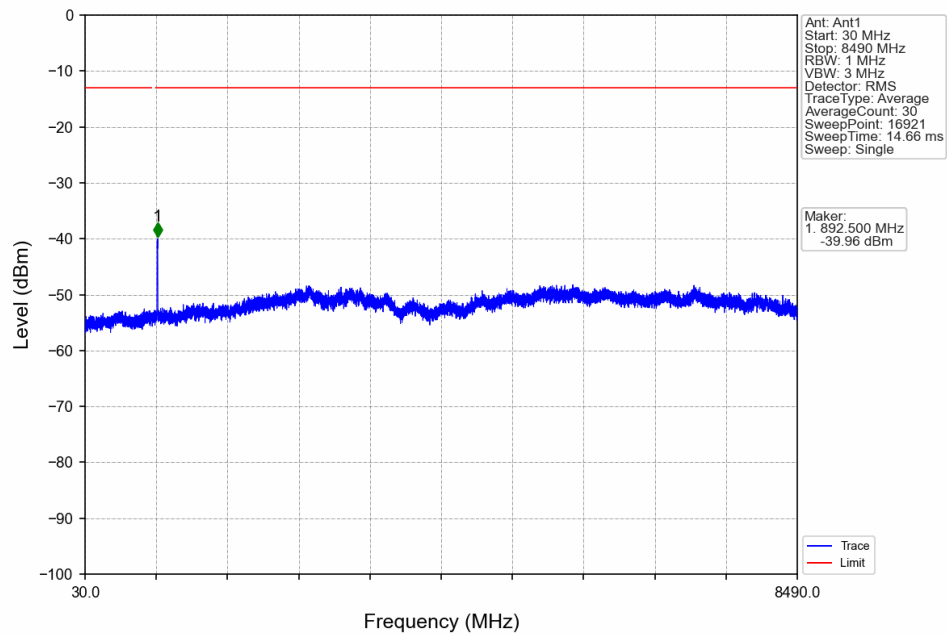
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



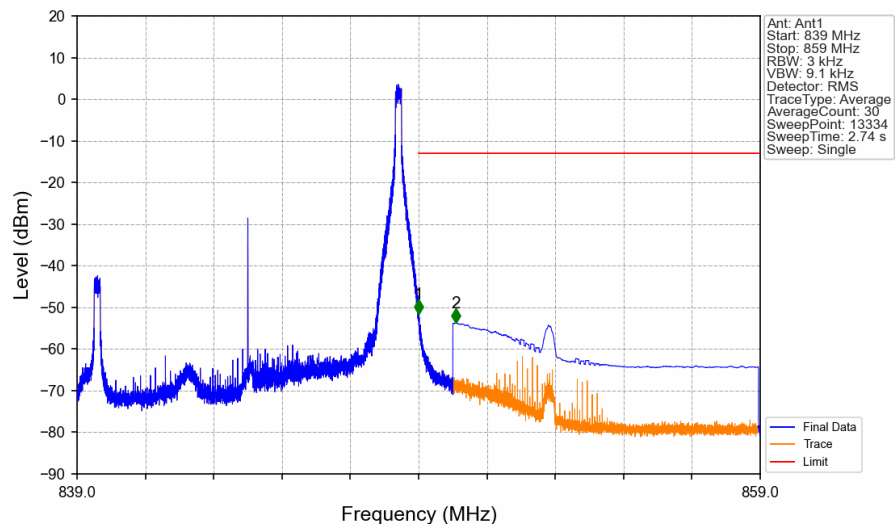
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_0\_NTNV

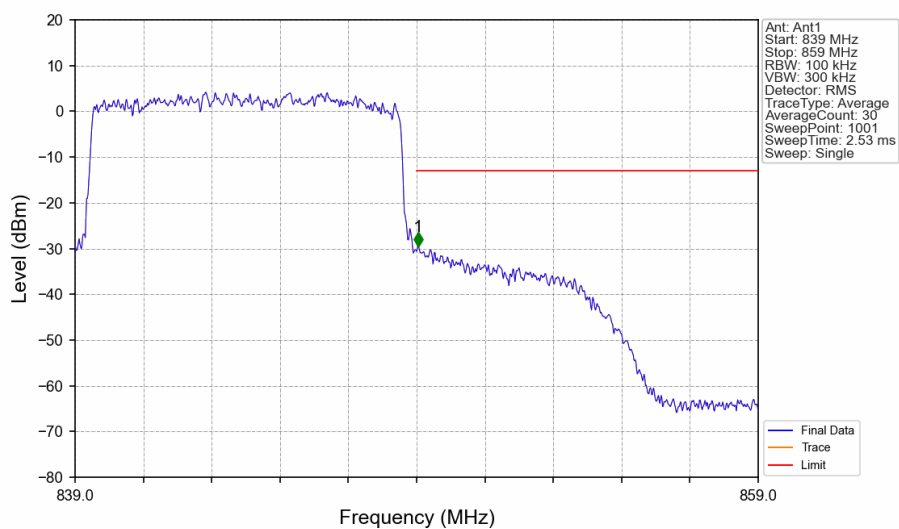


Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-51.59	-13	Pass
850	859	0.1	CHP	2	850.085	-53.71	-13	Pass

Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	/	/	/	/	/	/
849	859	0.1	/	1	849.040	-29.62	-13	Pass