

## Appendix B.3

### LTE Band 5



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Wireless Laboratory

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### 1. Effective (Isotropic) Radiated Power Output Data

#### 1.1 Test Result

##### 1.1.1 B5\_1.4MHz\_ERP

Band: 5 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	24.14	2.12	24.11	<=38.45	Pass
			2	24.17	2.12	24.14	<=38.45	Pass
			5	24.09	2.12	24.06	<=38.45	Pass
		3	0	24.14	2.12	24.11	<=38.45	Pass
			2	24.10	2.12	24.07	<=38.45	Pass
			3	24.10	2.12	24.07	<=38.45	Pass
		6	0	23.12	2.12	23.09	<=38.45	Pass
	836.5	1	0	24.00	2.12	23.97	<=38.45	Pass
			2	24.03	2.12	24.00	<=38.45	Pass
			5	24.04	2.12	24.01	<=38.45	Pass
		3	0	23.99	2.12	23.96	<=38.45	Pass
			2	24.04	2.12	24.01	<=38.45	Pass
			3	24.06	2.12	24.03	<=38.45	Pass
		6	0	22.95	2.12	22.92	<=38.45	Pass
	848.3	1	0	23.93	2.12	23.90	<=38.45	Pass
			2	23.95	2.12	23.92	<=38.45	Pass
			5	23.96	2.12	23.93	<=38.45	Pass
		3	0	23.90	2.12	23.87	<=38.45	Pass
			2	23.87	2.12	23.84	<=38.45	Pass
			3	23.92	2.12	23.89	<=38.45	Pass
		6	0	22.90	2.12	22.87	<=38.45	Pass
16QAM	824.7	1	0	23.28	2.12	23.25	<=38.45	Pass
			2	23.34	2.12	23.31	<=38.45	Pass
			5	23.24	2.12	23.21	<=38.45	Pass
		3	0	23.21	2.12	23.18	<=38.45	Pass
			2	23.19	2.12	23.16	<=38.45	Pass
			3	23.16	2.12	23.13	<=38.45	Pass
		6	0	22.11	2.12	22.08	<=38.45	Pass
	836.5	1	0	23.09	2.12	23.06	<=38.45	Pass



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		3	2	23.23	2.12	23.20	<=38.45	Pass
			5	23.15	2.12	23.12	<=38.45	Pass
			0	23.05	2.12	23.02	<=38.45	Pass
		6	2	23.08	2.12	23.05	<=38.45	Pass
			3	23.07	2.12	23.04	<=38.45	Pass
			0	22.03	2.12	22.00	<=38.45	Pass
	848.3	1	0	23.07	2.12	23.04	<=38.45	Pass
			2	23.13	2.12	23.10	<=38.45	Pass
			5	23.08	2.12	23.05	<=38.45	Pass
		3	0	22.97	2.12	22.94	<=38.45	Pass
			2	22.97	2.12	22.94	<=38.45	Pass
			3	23.04	2.12	23.01	<=38.45	Pass
		6	0	21.97	2.12	21.94	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B5\_3MHz\_ERP

Band: 5 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	825.5	1	0	24.06	2.12	24.03	<=38.45	Pass
			7	24.09	2.12	24.06	<=38.45	Pass
			14	24.03	2.12	24.00	<=38.45	Pass
		8	0	23.20	2.12	23.17	<=38.45	Pass
			4	23.20	2.12	23.17	<=38.45	Pass
			7	23.13	2.12	23.10	<=38.45	Pass
		15	0	23.16	2.12	23.13	<=38.45	Pass
	836.5	1	0	24.05	2.12	24.02	<=38.45	Pass
			7	24.06	2.12	24.03	<=38.45	Pass
			14	24.07	2.12	24.04	<=38.45	Pass
		8	0	22.98	2.12	22.95	<=38.45	Pass
			4	23.06	2.12	23.03	<=38.45	Pass
			7	23.05	2.12	23.02	<=38.45	Pass
		15	0	23.00	2.12	22.97	<=38.45	Pass
	847.5	1	0	23.90	2.12	23.87	<=38.45	Pass
			7	23.93	2.12	23.90	<=38.45	Pass
			14	23.94	2.12	23.91	<=38.45	Pass
		8	0	22.84	2.12	22.81	<=38.45	Pass



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16QAM		15	4	22.94	2.12	22.91	<=38.45	Pass
			7	22.94	2.12	22.91	<=38.45	Pass
			0	22.92	2.12	22.89	<=38.45	Pass
	825.5	1	0	23.35	2.12	23.32	<=38.45	Pass
			7	23.33	2.12	23.30	<=38.45	Pass
			14	23.19	2.12	23.16	<=38.45	Pass
		8	0	22.23	2.12	22.20	<=38.45	Pass
			4	22.18	2.12	22.15	<=38.45	Pass
			7	22.18	2.12	22.15	<=38.45	Pass
		15	0	22.21	2.12	22.18	<=38.45	Pass
	836.5	1	0	23.23	2.12	23.20	<=38.45	Pass
			7	23.27	2.12	23.24	<=38.45	Pass
			14	23.22	2.12	23.19	<=38.45	Pass
		8	0	22.01	2.12	21.98	<=38.45	Pass
			4	22.14	2.12	22.11	<=38.45	Pass
			7	22.10	2.12	22.07	<=38.45	Pass
		15	0	21.98	2.12	21.95	<=38.45	Pass
	847.5	1	0	23.06	2.12	23.03	<=38.45	Pass
			7	23.06	2.12	23.03	<=38.45	Pass
			14	23.07	2.12	23.04	<=38.45	Pass
		8	0	21.83	2.12	21.80	<=38.45	Pass
			4	21.99	2.12	21.96	<=38.45	Pass
			7	21.96	2.12	21.93	<=38.45	Pass
		15	0	21.91	2.12	21.88	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.3 B5\_5MHz\_ERP

Band: 5 / Bandwidth: 5MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	24.23	2.12	24.20	<=38.45	Pass
			13	24.20	2.12	24.17	<=38.45	Pass
			24	24.12	2.12	24.09	<=38.45	Pass
		12	0	23.13	2.12	23.10	<=38.45	Pass
			6	23.18	2.12	23.15	<=38.45	Pass
			13	23.13	2.12	23.10	<=38.45	Pass
		25	0	23.17	2.12	23.14	<=38.45	Pass



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	836.5	1	0	24.12	2.12	24.09	<=38.45	Pass
			13	24.07	2.12	24.04	<=38.45	Pass
			24	24.10	2.12	24.07	<=38.45	Pass
		12	0	23.01	2.12	22.98	<=38.45	Pass
			6	23.01	2.12	22.98	<=38.45	Pass
			13	23.14	2.12	23.11	<=38.45	Pass
		25	0	23.00	2.12	22.97	<=38.45	Pass
	846.5	1	0	23.97	2.12	23.94	<=38.45	Pass
			13	23.95	2.12	23.92	<=38.45	Pass
			24	24.01	2.12	23.98	<=38.45	Pass
		12	0	22.91	2.12	22.88	<=38.45	Pass
			6	22.88	2.12	22.85	<=38.45	Pass
			13	22.97	2.12	22.94	<=38.45	Pass
		25	0	22.91	2.12	22.88	<=38.45	Pass
16QAM	826.5	1	0	23.37	2.12	23.34	<=38.45	Pass
			13	23.26	2.12	23.23	<=38.45	Pass
			24	23.16	2.12	23.13	<=38.45	Pass
		12	0	22.22	2.12	22.19	<=38.45	Pass
			6	22.22	2.12	22.19	<=38.45	Pass
			13	22.11	2.12	22.08	<=38.45	Pass
		25	0	22.19	2.12	22.16	<=38.45	Pass
	836.5	1	0	23.23	2.12	23.20	<=38.45	Pass
			13	23.18	2.12	23.15	<=38.45	Pass
			24	23.31	2.12	23.28	<=38.45	Pass
		12	0	22.02	2.12	21.99	<=38.45	Pass
			6	22.12	2.12	22.09	<=38.45	Pass
			13	22.11	2.12	22.08	<=38.45	Pass
		25	0	22.01	2.12	21.98	<=38.45	Pass
	846.5	1	0	23.17	2.12	23.14	<=38.45	Pass
			13	23.10	2.12	23.07	<=38.45	Pass
			24	23.14	2.12	23.11	<=38.45	Pass
		12	0	21.98	2.12	21.95	<=38.45	Pass
			6	21.89	2.12	21.86	<=38.45	Pass
			13	22.02	2.12	21.99	<=38.45	Pass
		25	0	21.91	2.12	21.88	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.4 B5\_10MHz\_ERP



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Band: 5 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	24.14	2.12	24.11	<=38.45	Pass
			25	24.03	2.12	24.00	<=38.45	Pass
			49	23.90	2.12	23.87	<=38.45	Pass
		25	0	23.13	2.12	23.10	<=38.45	Pass
			13	23.13	2.12	23.10	<=38.45	Pass
			25	23.05	2.12	23.02	<=38.45	Pass
		50	0	23.16	2.12	23.13	<=38.45	Pass
	836.5	1	0	24.07	2.12	24.04	<=38.45	Pass
			25	24.07	2.12	24.04	<=38.45	Pass
			49	24.04	2.12	24.01	<=38.45	Pass
		25	0	23.01	2.12	22.98	<=38.45	Pass
			13	23.06	2.12	23.03	<=38.45	Pass
			25	23.11	2.12	23.08	<=38.45	Pass
		50	0	23.06	2.12	23.03	<=38.45	Pass
	844	1	0	24.07	2.12	24.04	<=38.45	Pass
			25	24.00	2.12	23.97	<=38.45	Pass
			49	23.96	2.12	23.93	<=38.45	Pass
		25	0	23.02	2.12	22.99	<=38.45	Pass
			13	23.06	2.12	23.03	<=38.45	Pass
			25	22.98	2.12	22.95	<=38.45	Pass
		50	0	23.09	2.12	23.06	<=38.45	Pass
16QAM	829	1	0	23.38	2.12	23.35	<=38.45	Pass
			25	23.20	2.12	23.17	<=38.45	Pass
			49	23.12	2.12	23.09	<=38.45	Pass
		25	0	22.15	2.12	22.12	<=38.45	Pass
			13	22.13	2.12	22.10	<=38.45	Pass
			25	22.09	2.12	22.06	<=38.45	Pass
		50	0	22.17	2.12	22.14	<=38.45	Pass
	836.5	1	0	23.19	2.12	23.16	<=38.45	Pass
			25	23.26	2.12	23.23	<=38.45	Pass
			49	23.16	2.12	23.13	<=38.45	Pass
		25	0	22.06	2.12	22.03	<=38.45	Pass
			13	22.07	2.12	22.04	<=38.45	Pass
			25	22.14	2.12	22.11	<=38.45	Pass
		50	0	22.08	2.12	22.05	<=38.45	Pass



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	844	1	0	23.28	2.12	23.25	<=38.45	Pass
			25	23.13	2.12	23.10	<=38.45	Pass
			49	23.09	2.12	23.06	<=38.45	Pass
		25	0	22.06	2.12	22.03	<=38.45	Pass
			13	22.13	2.12	22.10	<=38.45	Pass
			25	22.02	2.12	21.99	<=38.45	Pass
		50	0	22.06	2.12	22.03	<=38.45	Pass
		Note1: ERP=Conducted Power+Antenna Gain-2.15						

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B5\_10MHz

Band: 5 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	829	50	0	20	3.27	-0.844	-0.0010	-2.5 to 2.5	Pass
					3.85	0.072	0.0001	-2.5 to 2.5	Pass
					4.43	0.243	0.0003	-2.5 to 2.5	Pass
				0	3.85	-2.260	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-1.473	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-1.216	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-0.458	-0.0006	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-1.817	-0.0022	-2.5 to 2.5	Pass
					3.85	-0.744	-0.0009	-2.5 to 2.5	Pass
					4.43	-0.844	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-1.616	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-2.217	-0.0027	-2.5 to 2.5	Pass
				30	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				40	3.85	-2.203	-0.0026	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-0.601	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.401	-0.0005	-2.5 to 2.5	Pass
					4.43	-0.257	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-1.431	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-1.731	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-1.345	-0.0016	-2.5 to 2.5	Pass



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				40	3.85	-1.416	-0.0017	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	-1.760	-0.0021	-2.5 to 2.5	Pass
					3.85	-0.343	-0.0004	-2.5 to 2.5	Pass
					4.43	-0.916	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.529	-0.0006	-2.5 to 2.5	Pass
				30	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.415	-0.0005	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-1.388	-0.0017	-2.5 to 2.5	Pass
					3.85	-1.974	-0.0024	-2.5 to 2.5	Pass
					4.43	-1.402	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-2.217	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-1.788	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-1.073	-0.0013	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-0.529	-0.0006	-2.5 to 2.5	Pass
					3.85	-0.658	-0.0008	-2.5 to 2.5	Pass
					4.43	-1.059	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.343	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-1.316	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-1.202	-0.0014	-2.5 to 2.5	Pass

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band5\_OBW

Band: 5 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.122	/	Pass
		836.5	6	0	1.116	/	Pass
		848.3	6	0	1.117	/	Pass
	16QAM	824.7	6	0	1.123	/	Pass
		836.5	6	0	1.122	/	Pass
		848.3	6	0	1.113	/	Pass



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3	QPSK	825.5	15	0	2.738	/	Pass
		836.5	15	0	2.750	/	Pass
		847.5	15	0	2.745	/	Pass
	16QAM	825.5	15	0	2.745	/	Pass
		836.5	15	0	2.746	/	Pass
		847.5	15	0	2.752	/	Pass
5	QPSK	826.5	25	0	4.577	/	Pass
		836.5	25	0	4.563	/	Pass
		846.5	25	0	4.590	/	Pass
	16QAM	826.5	25	0	4.575	/	Pass
		836.5	25	0	4.582	/	Pass
		846.5	25	0	4.567	/	Pass
10	QPSK	829	50	0	9.087	/	Pass
		836.5	50	0	9.067	/	Pass
		844	50	0	9.092	/	Pass
	16QAM	829	50	0	9.088	/	Pass
		836.5	50	0	9.050	/	Pass
		844	50	0	9.063	/	Pass

### 3.1.2 Band5\_XDB

Band: 5 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.434	/	Pass
		836.5	6	0	1.424	/	Pass
		848.3	6	0	1.404	/	Pass
	16QAM	824.7	6	0	1.402	/	Pass
		836.5	6	0	1.402	/	Pass
		848.3	6	0	1.416	/	Pass
3	QPSK	825.5	15	0	3.127	/	Pass
		836.5	15	0	3.150	/	Pass
		847.5	15	0	3.179	/	Pass
	16QAM	825.5	15	0	3.109	/	Pass
		836.5	15	0	3.122	/	Pass
		847.5	15	0	3.130	/	Pass
5	QPSK	826.5	25	0	5.268	/	Pass
		836.5	25	0	5.293	/	Pass



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10	16QAM	846.5	25	0	5.268	/	Pass
		826.5	25	0	5.273	/	Pass
		836.5	25	0	5.221	/	Pass
		846.5	25	0	5.217	/	Pass
	QPSK	829	50	0	10.206	/	Pass
		836.5	50	0	10.128	/	Pass
		844	50	0	10.200	/	Pass
	16QAM	829	50	0	10.215	/	Pass
		836.5	50	0	10.129	/	Pass
		844	50	0	10.193	/	Pass



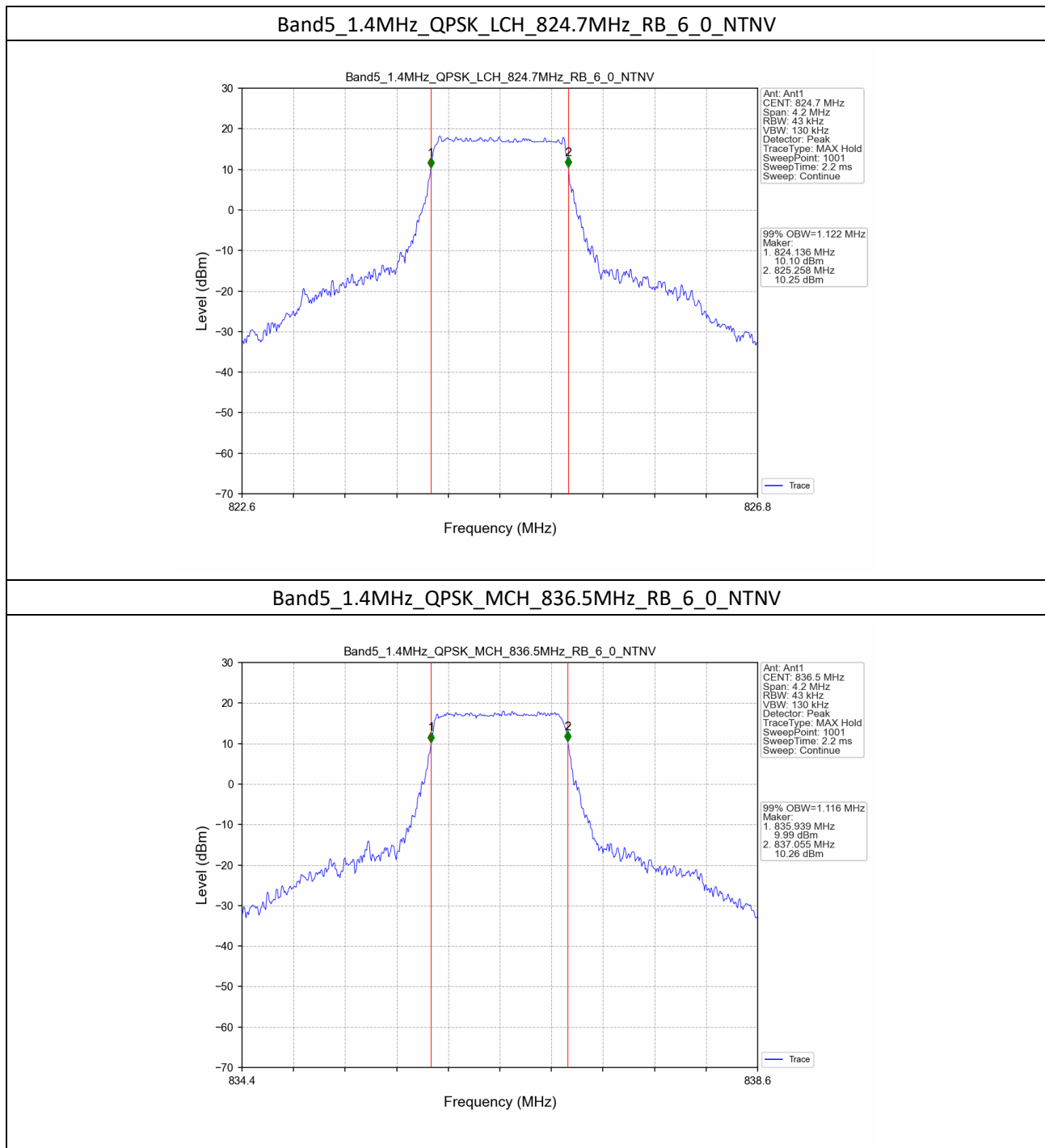
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### 3.2 Test Graph

#### 3.2.1 Band5\_OBW

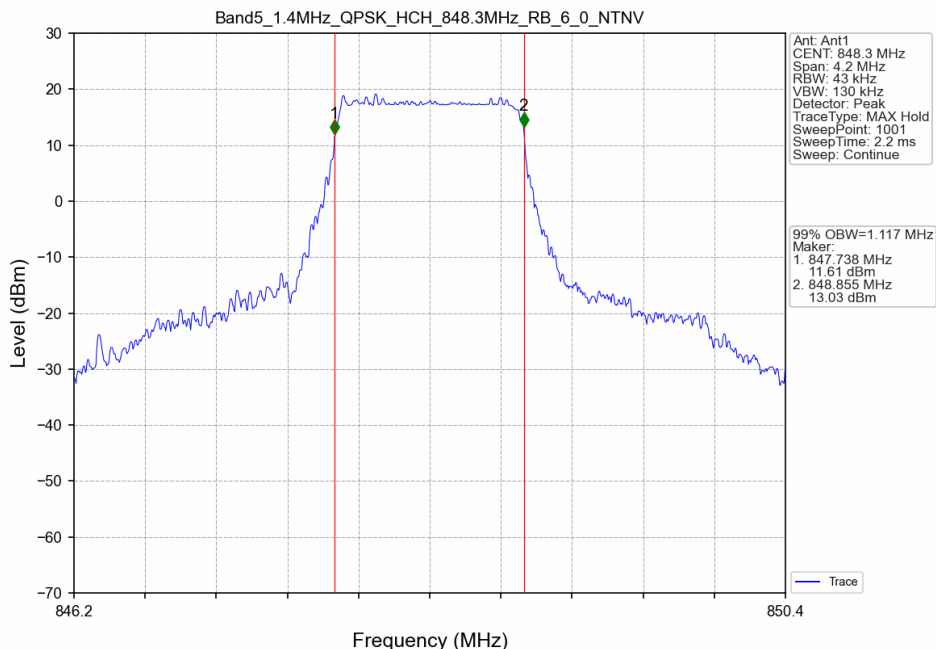


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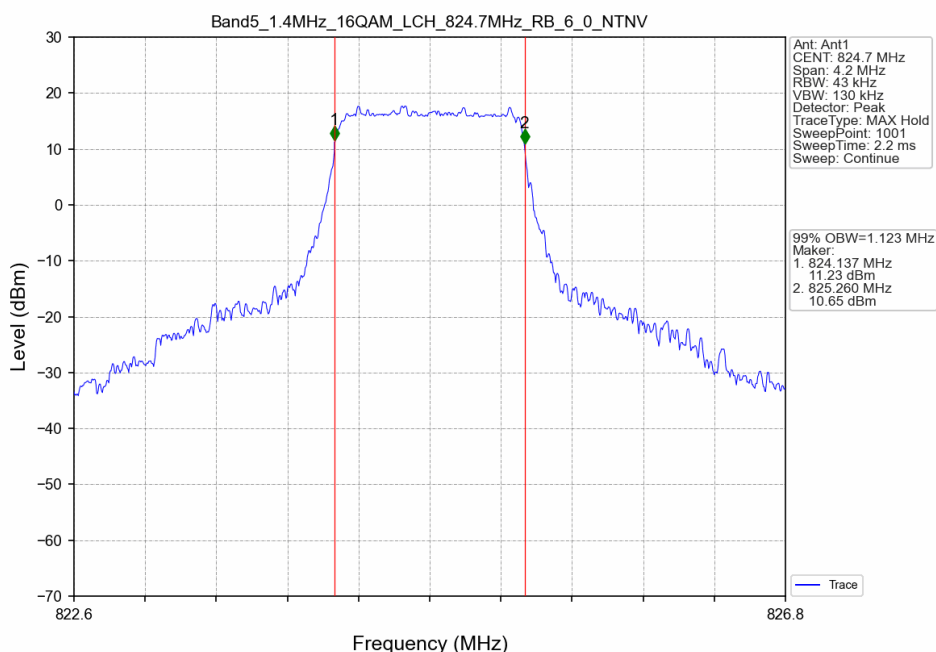
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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

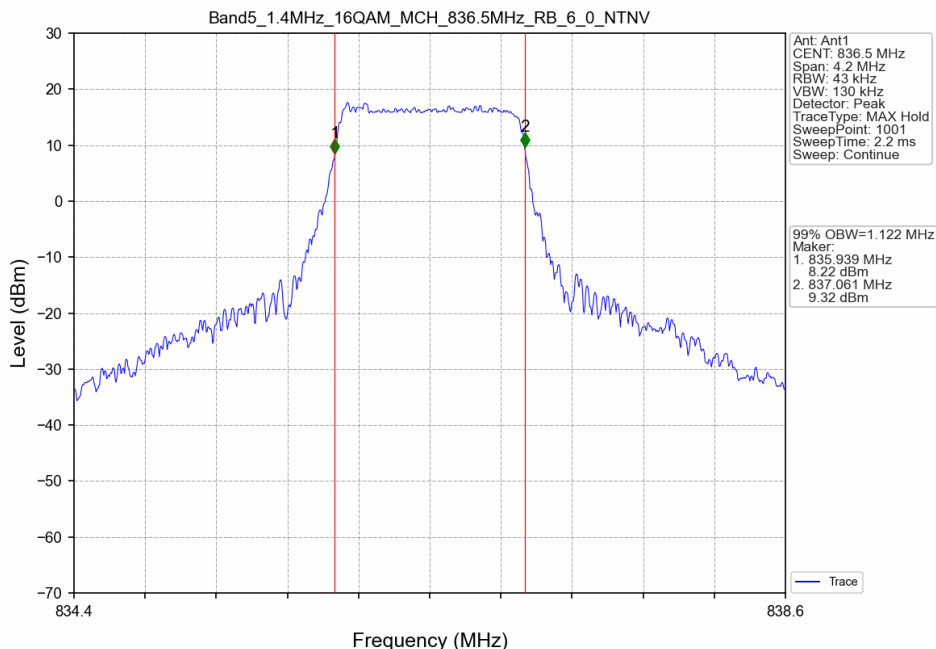


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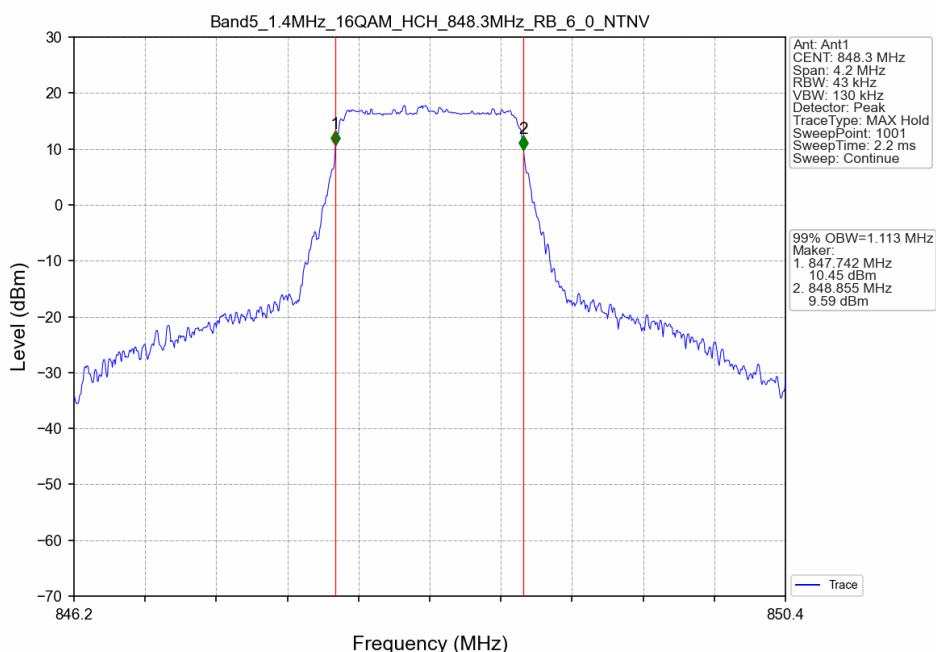
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Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



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



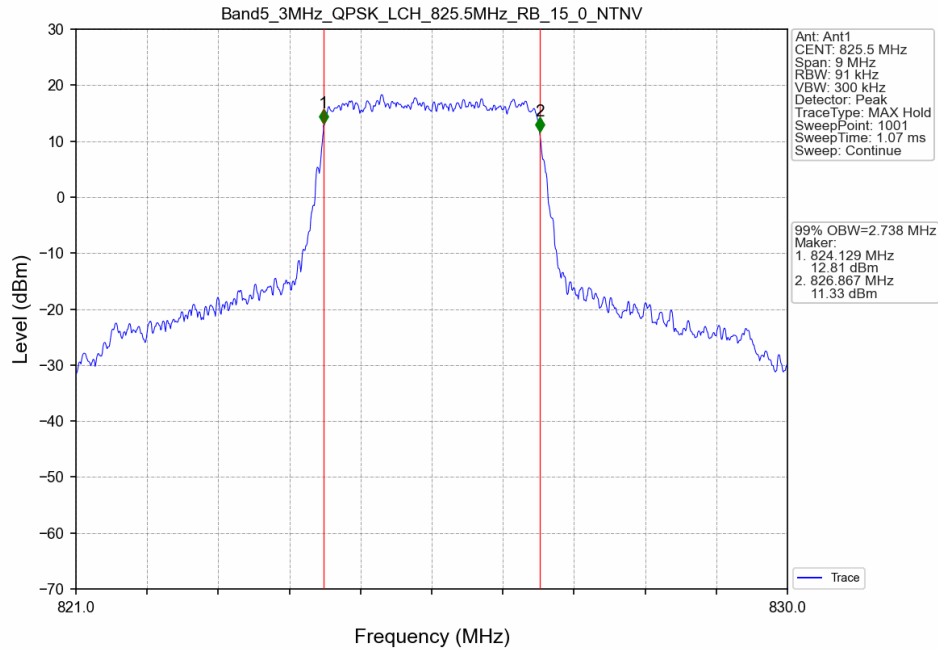
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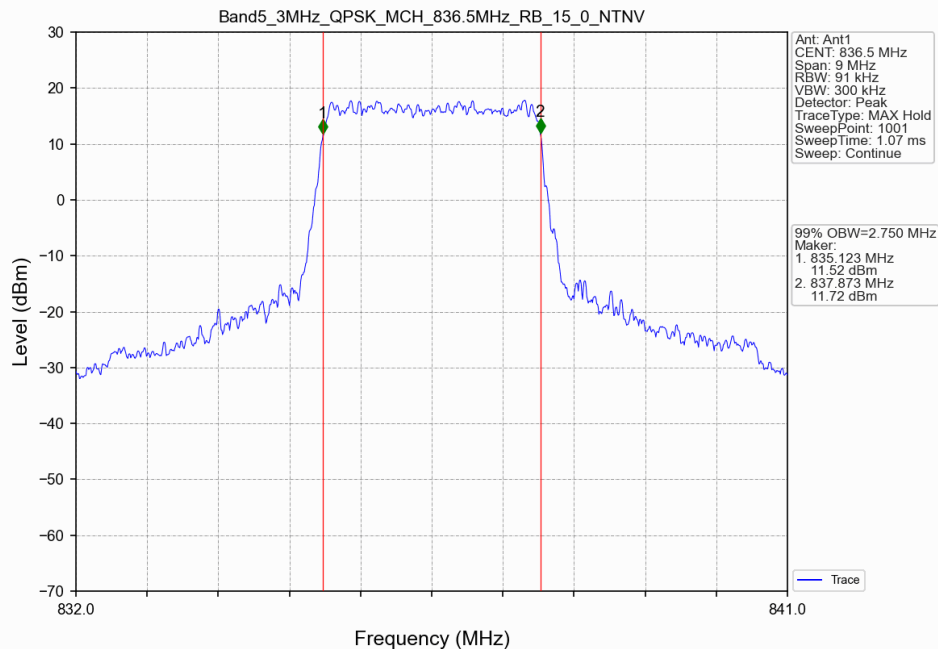
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Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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

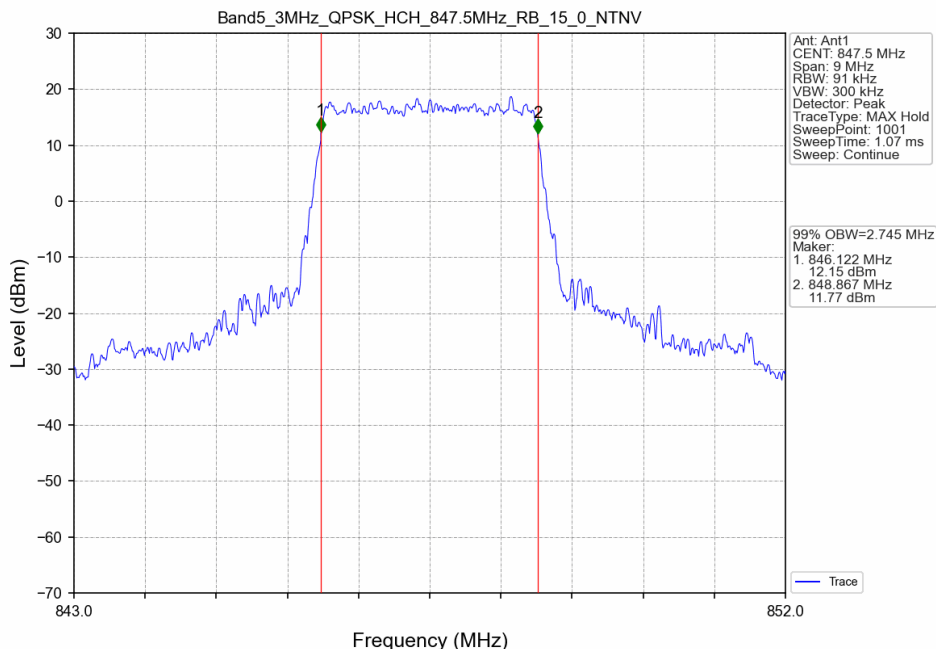


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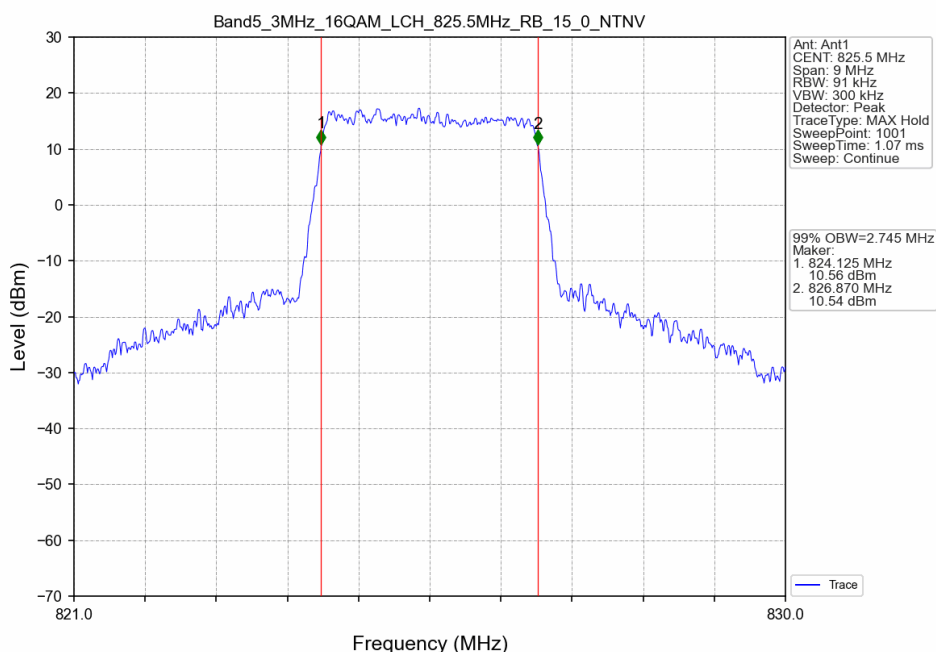
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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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

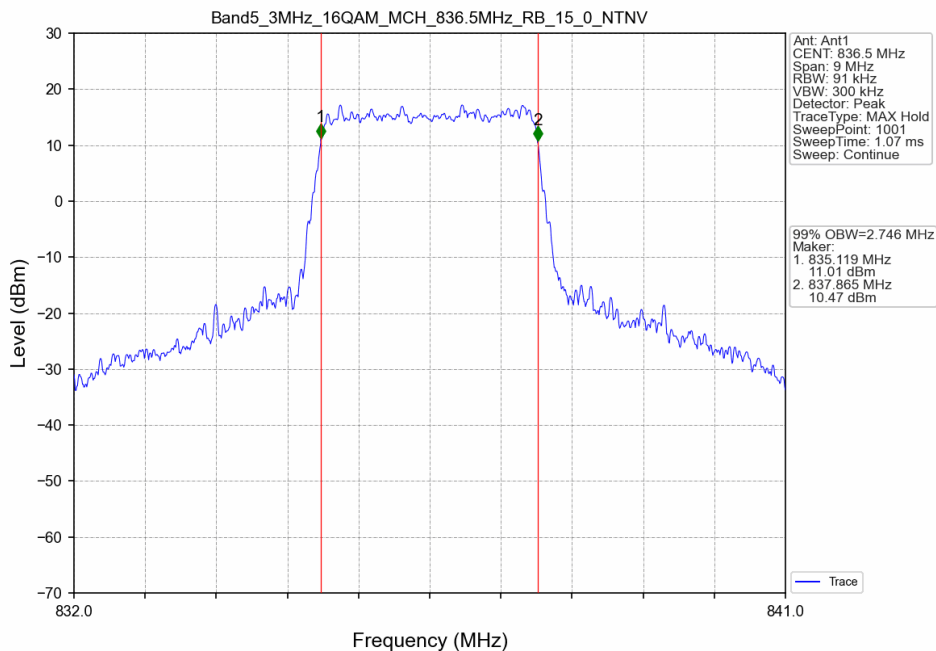


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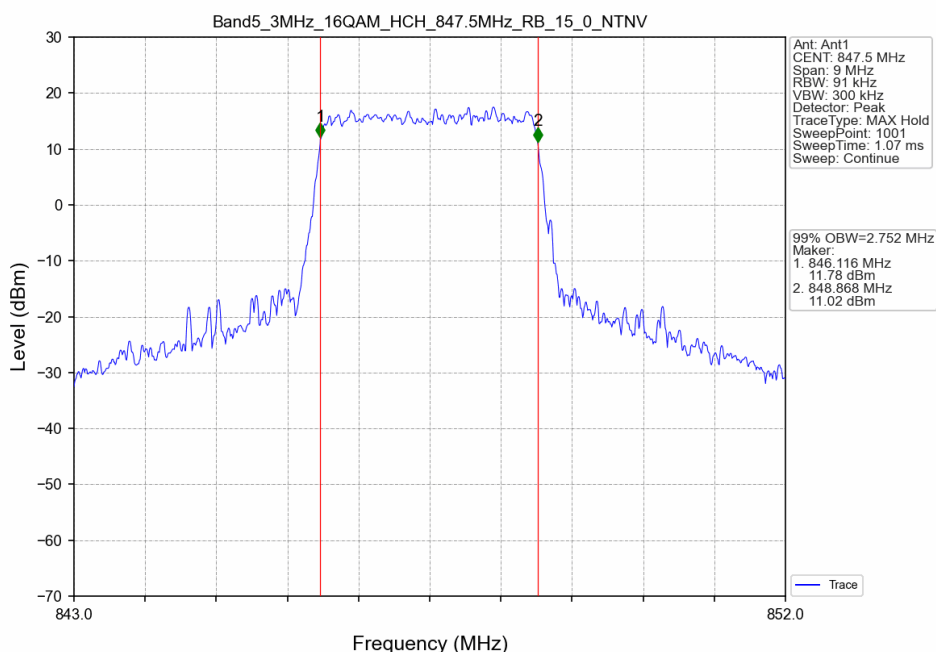
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Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



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

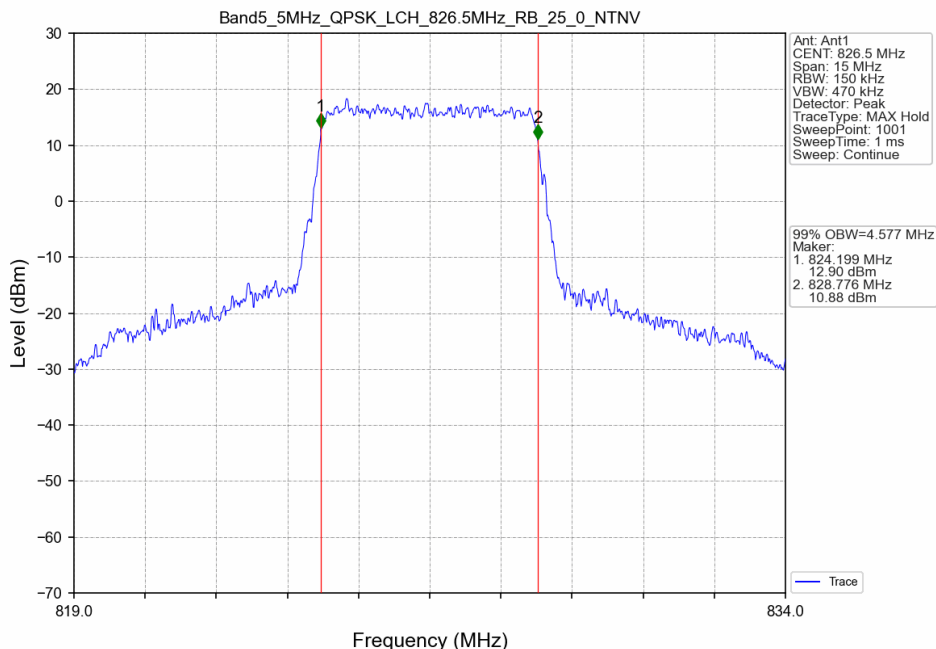


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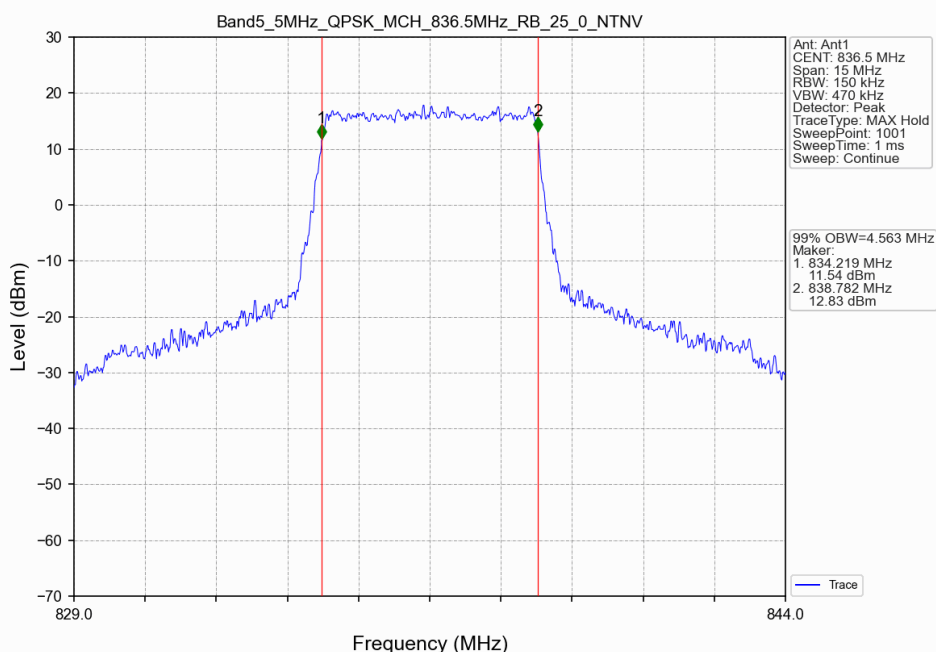
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Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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

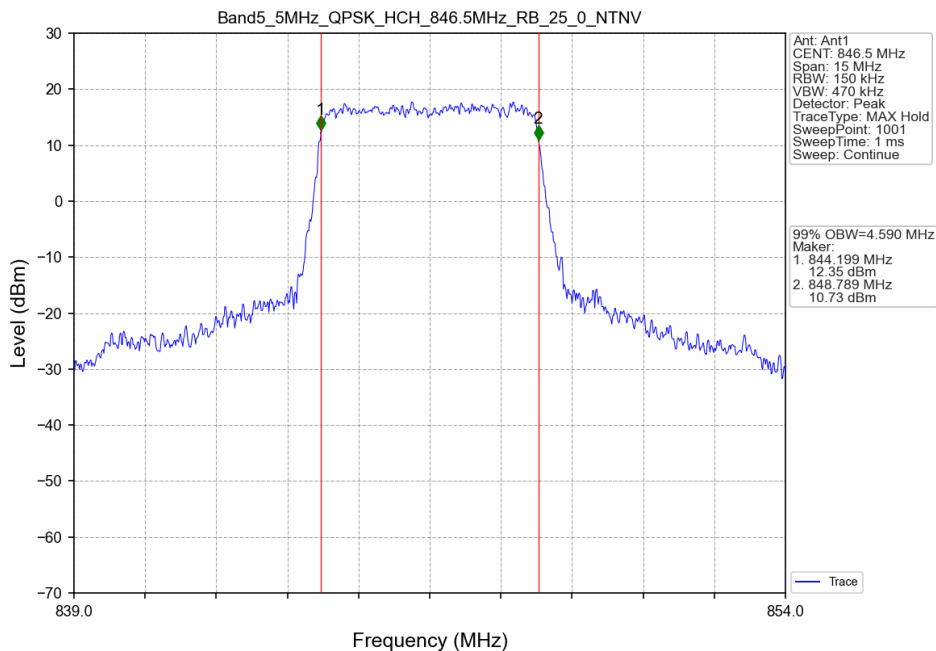


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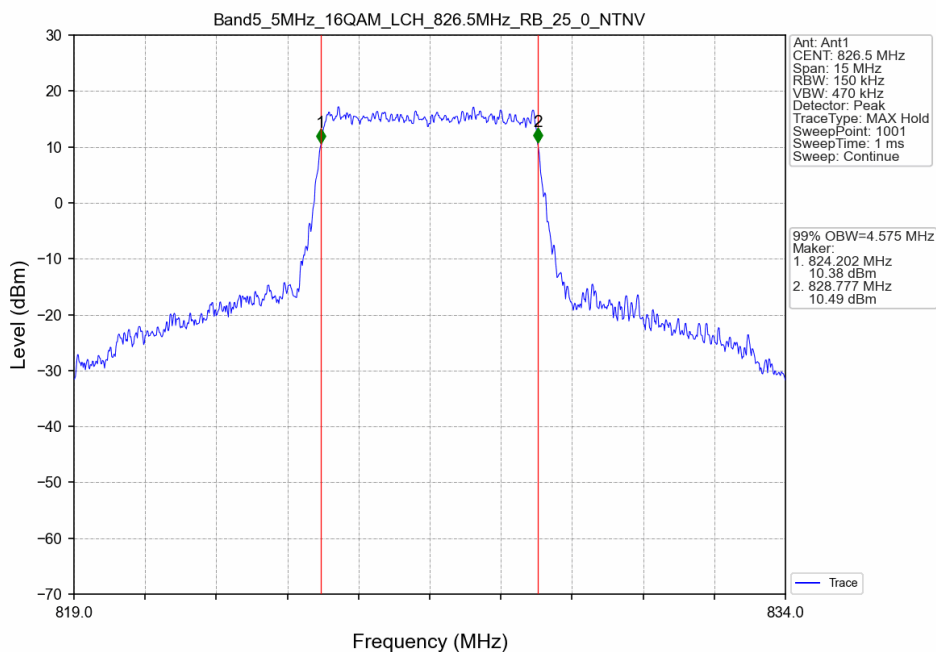
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



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



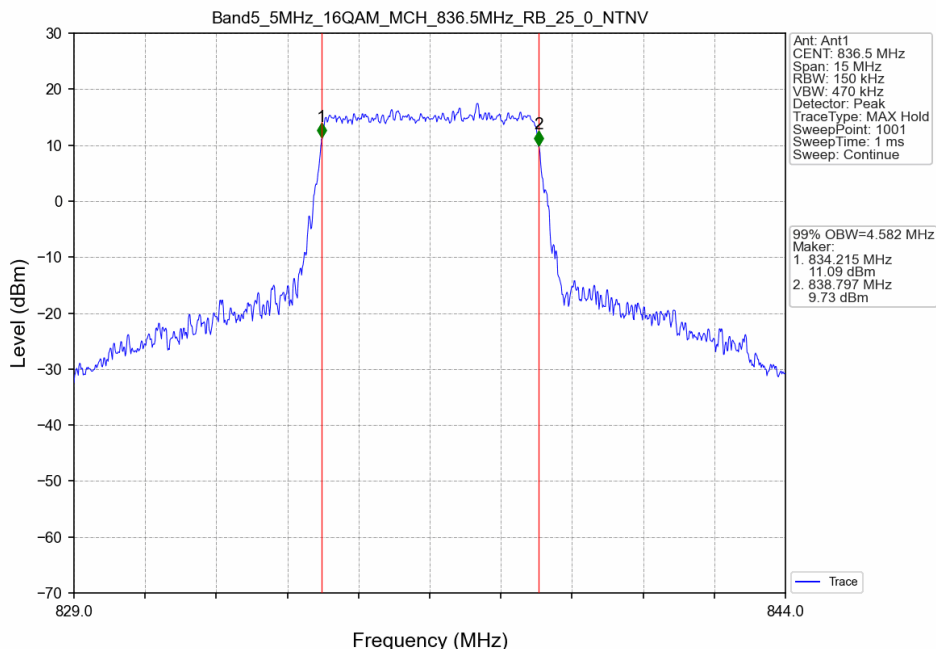
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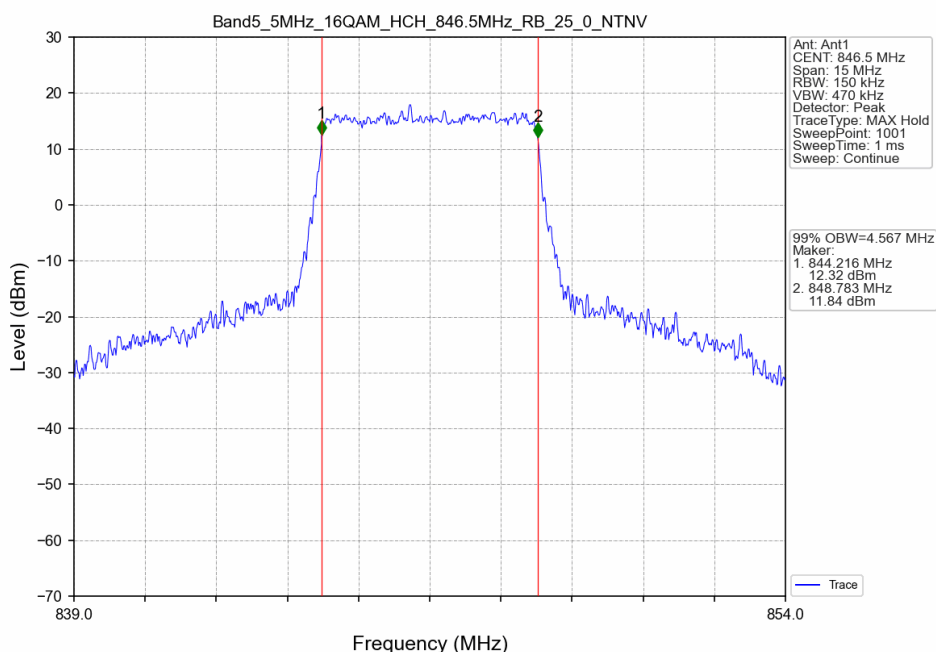
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Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



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

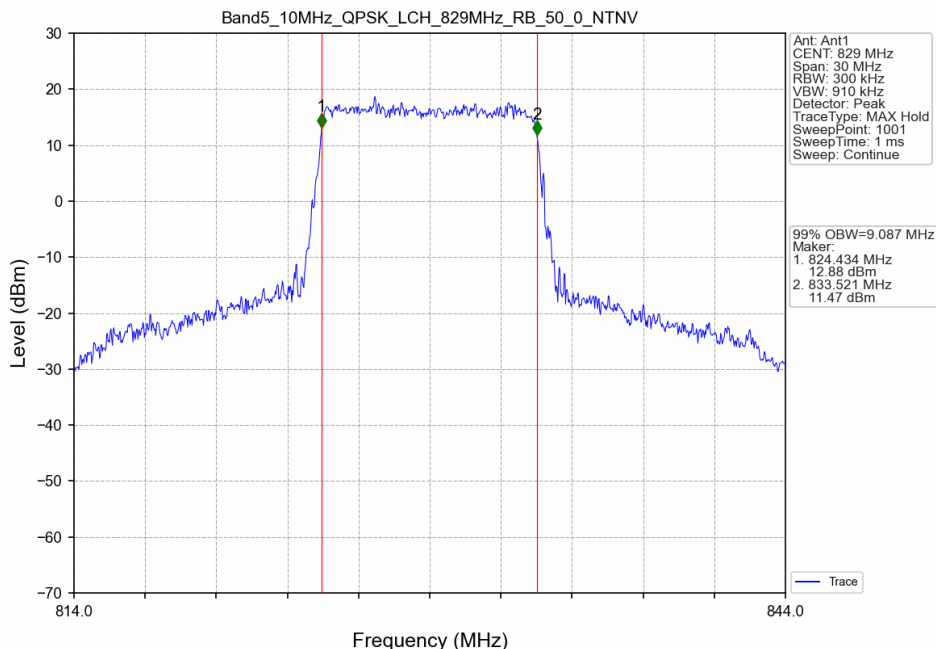


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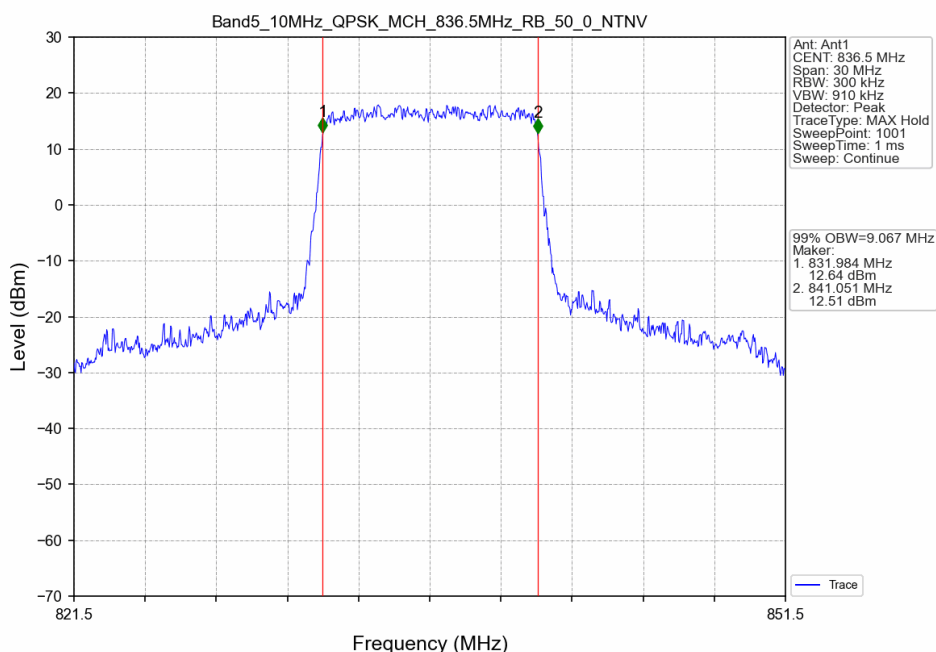
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Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV

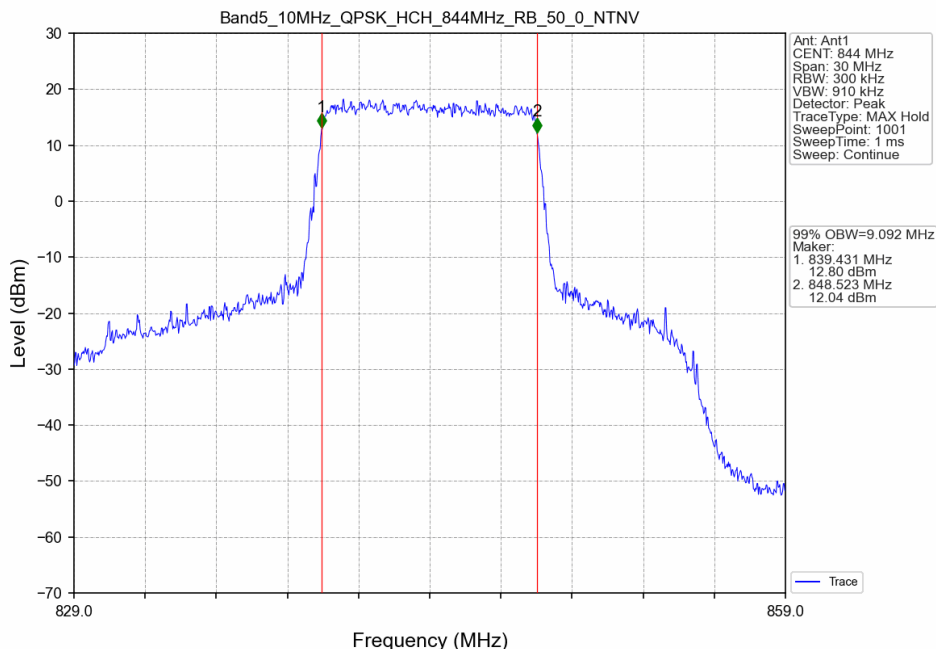


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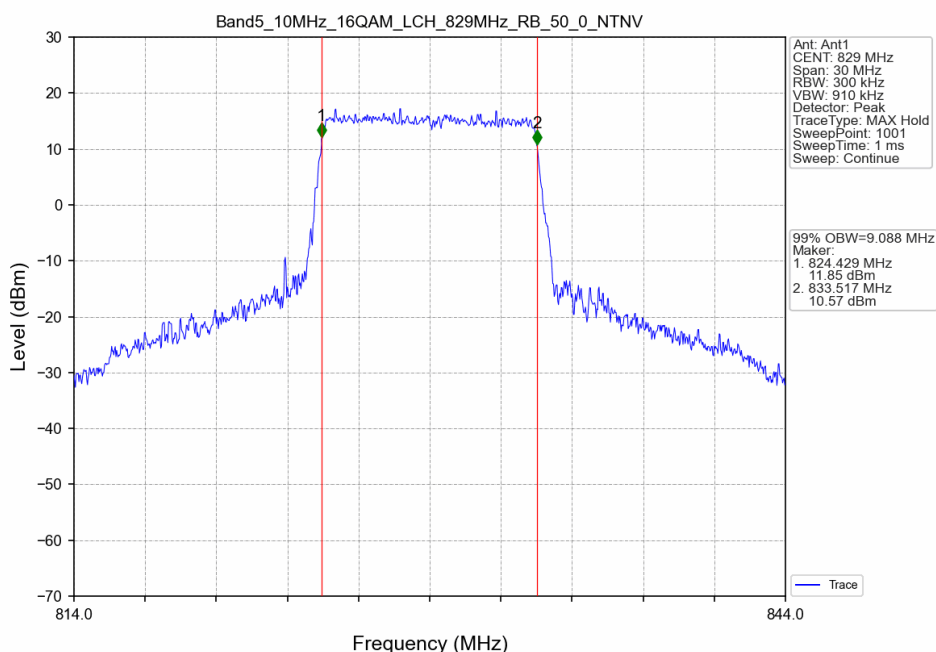
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV

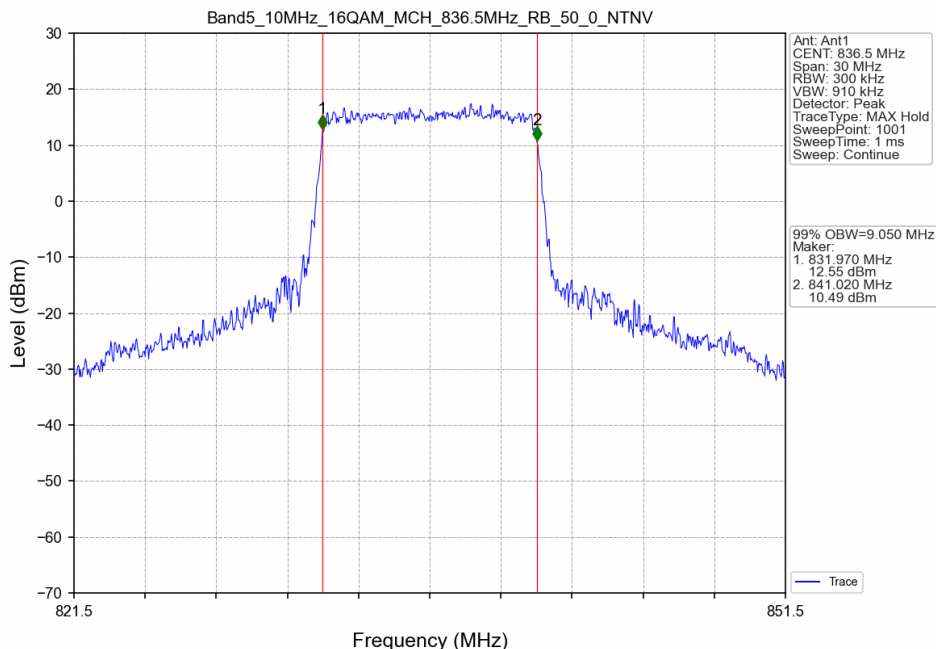


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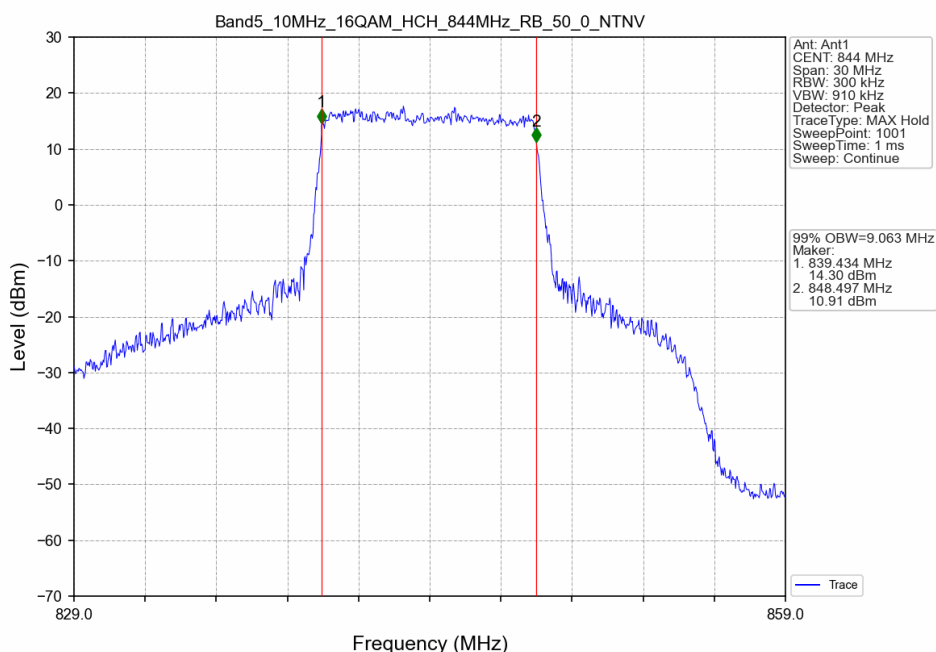
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Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV

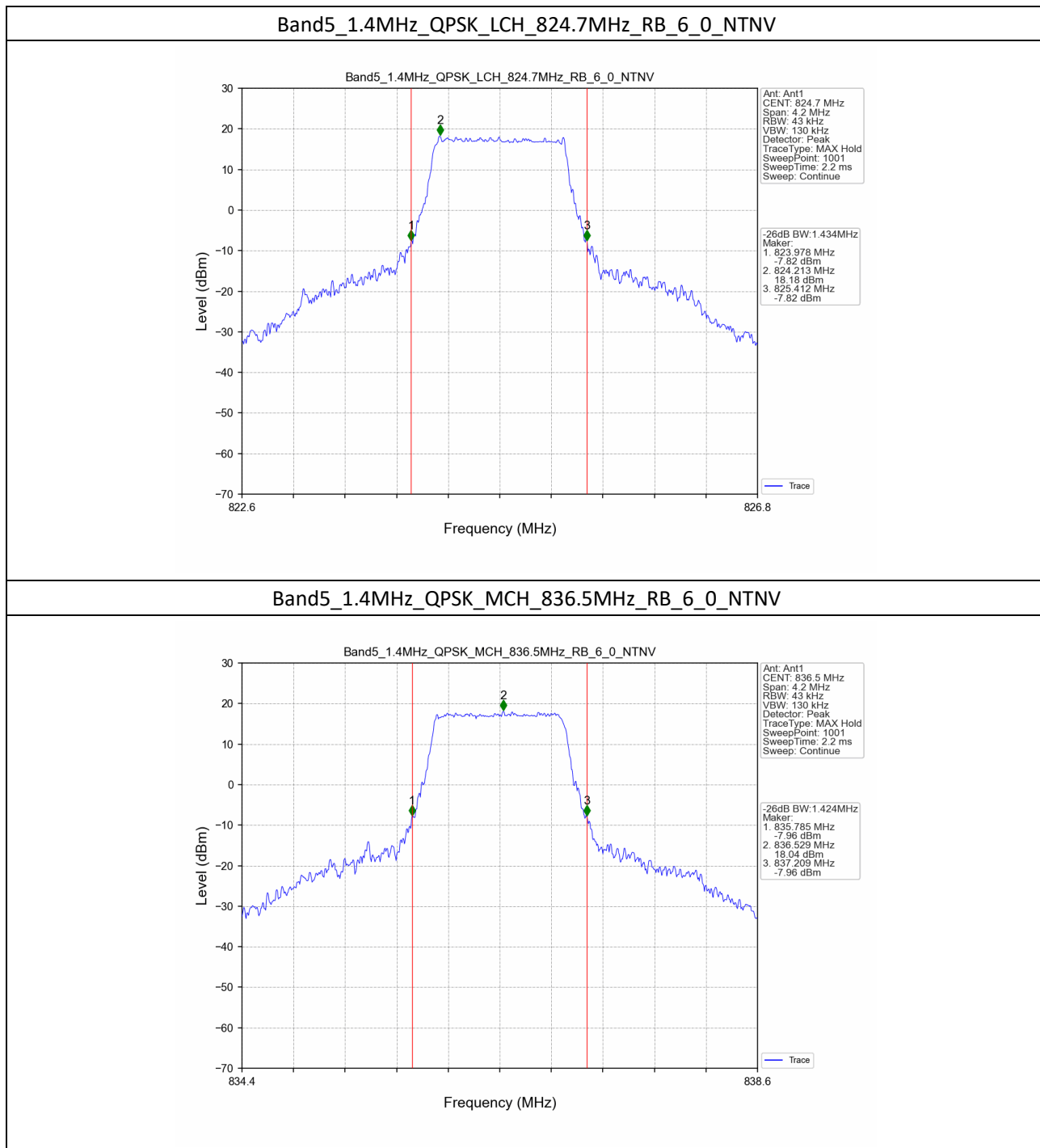


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### 3.2.2 Band5\_XDB



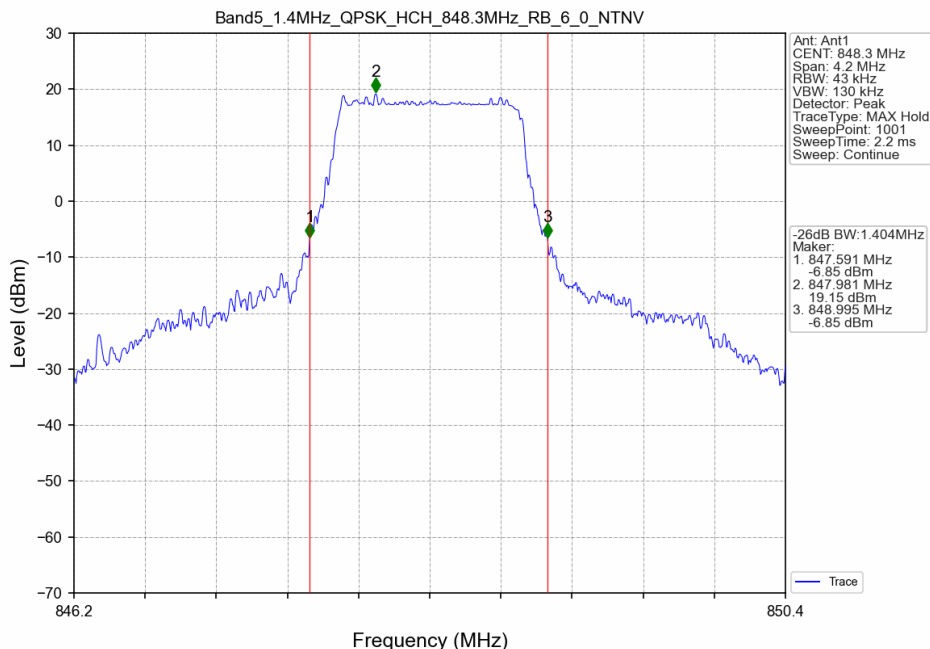
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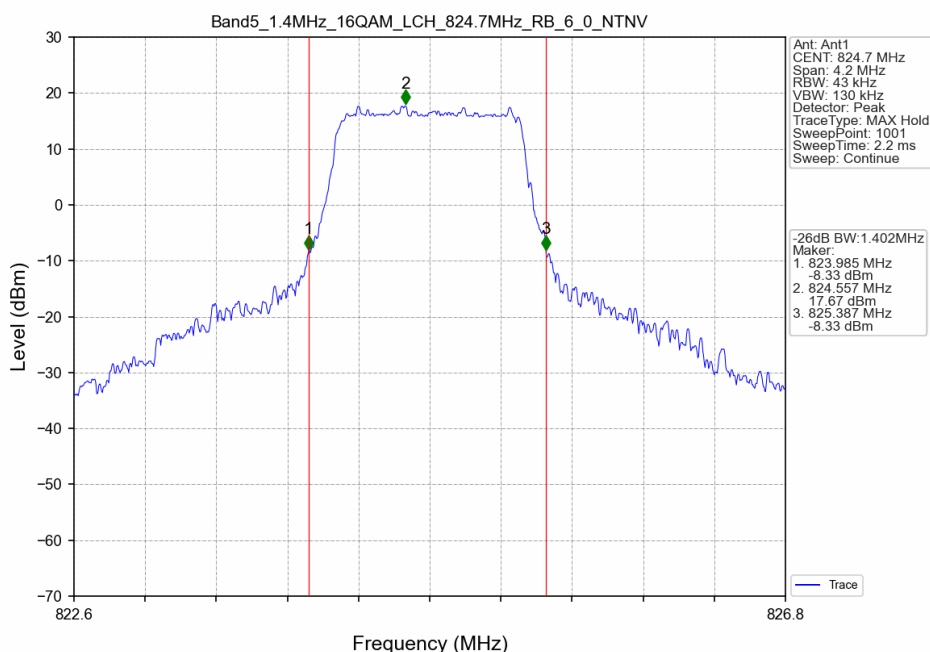
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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

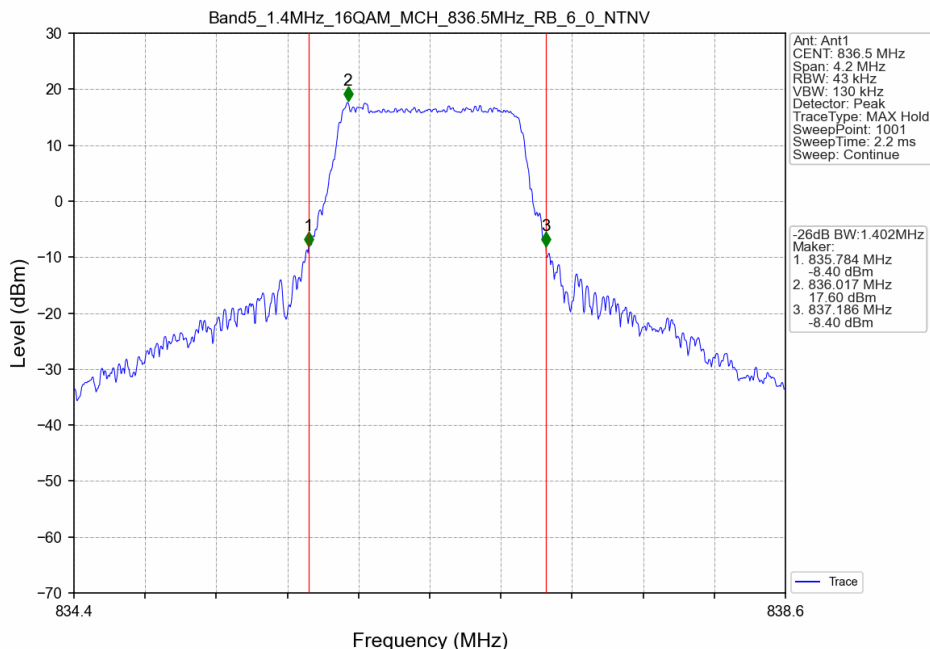


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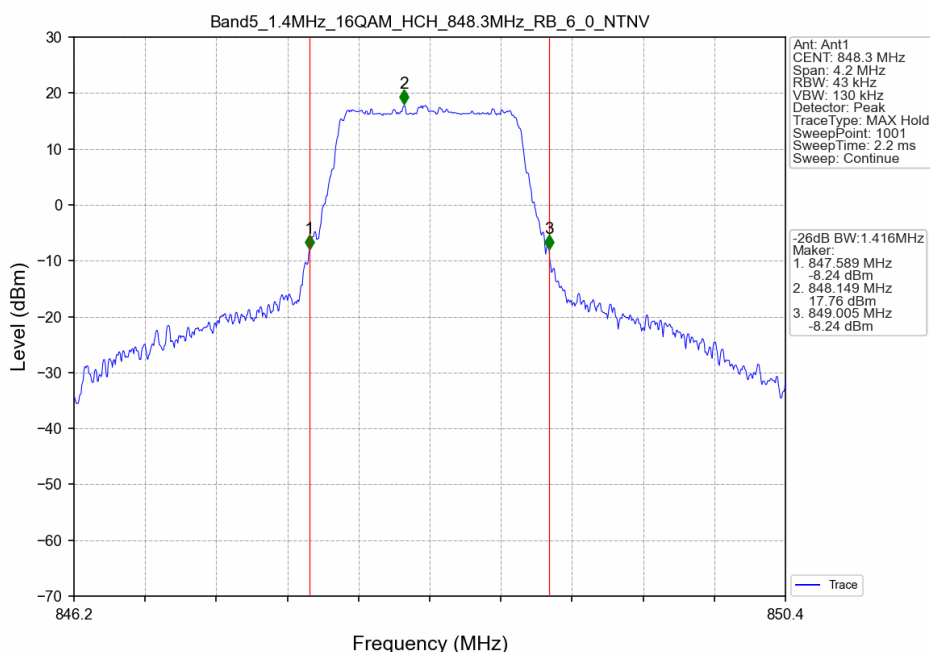
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Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



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

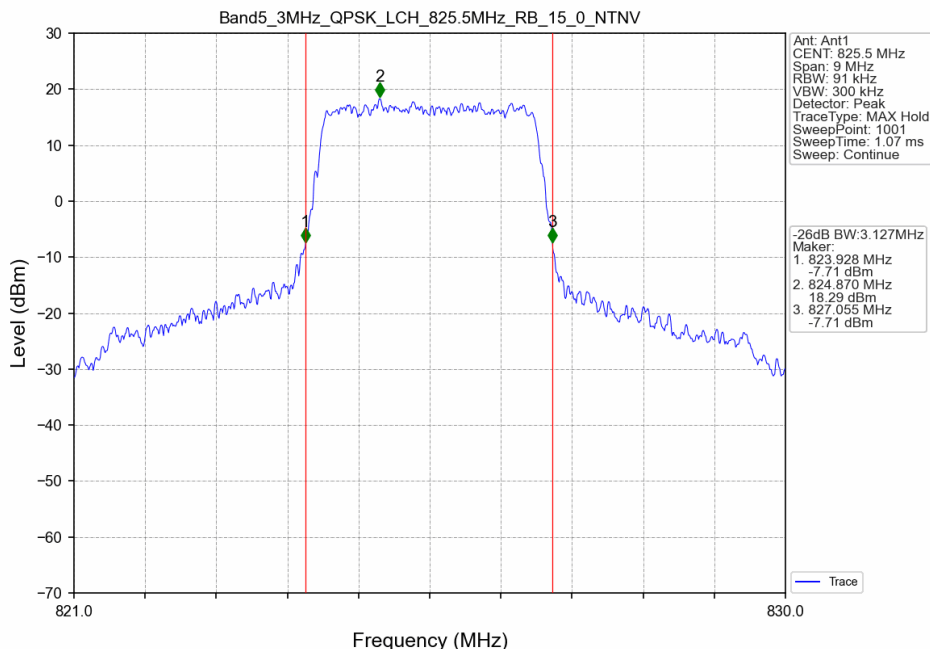


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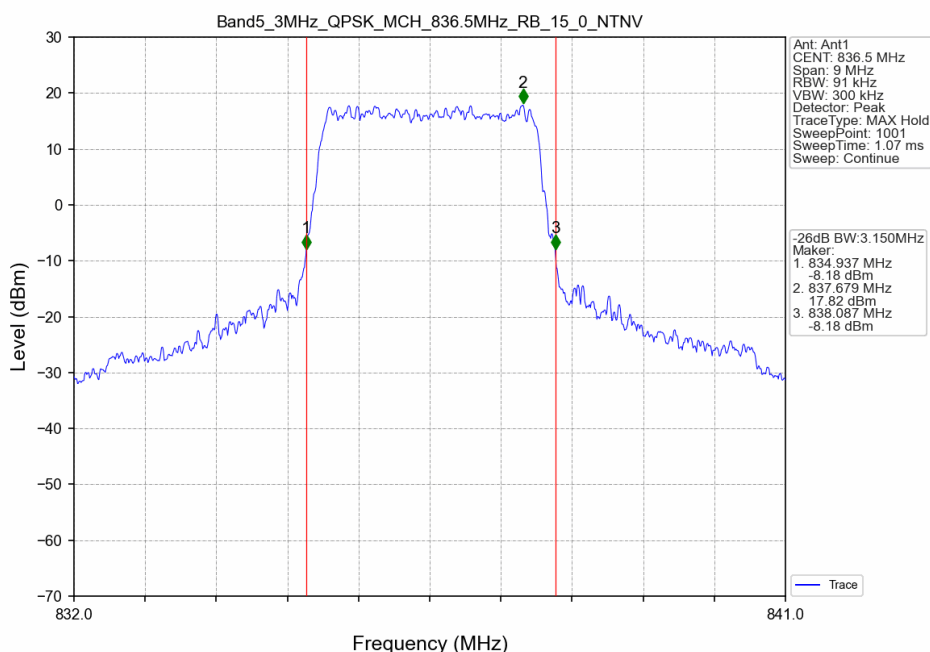
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Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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

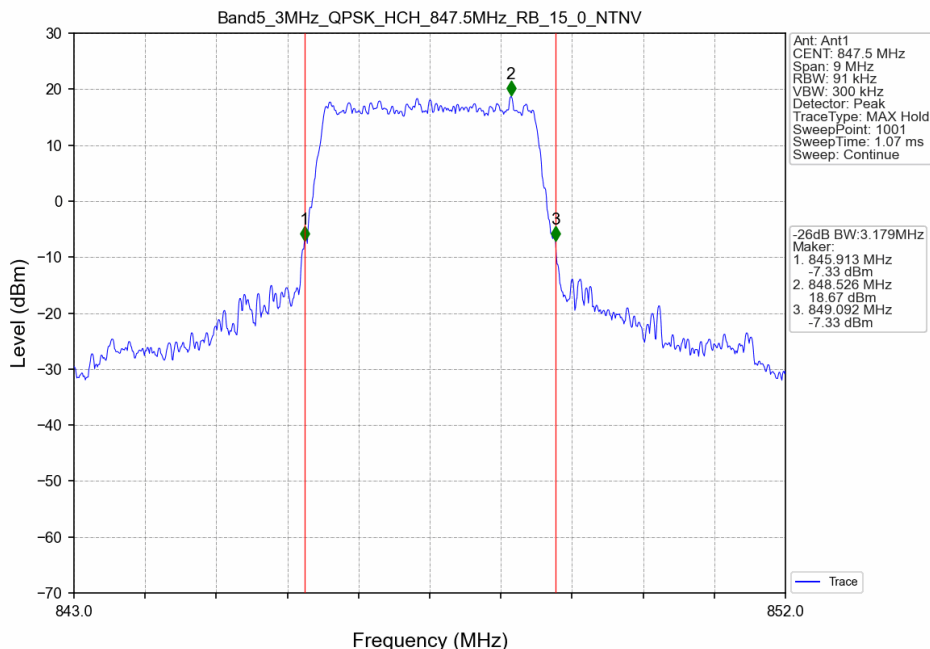


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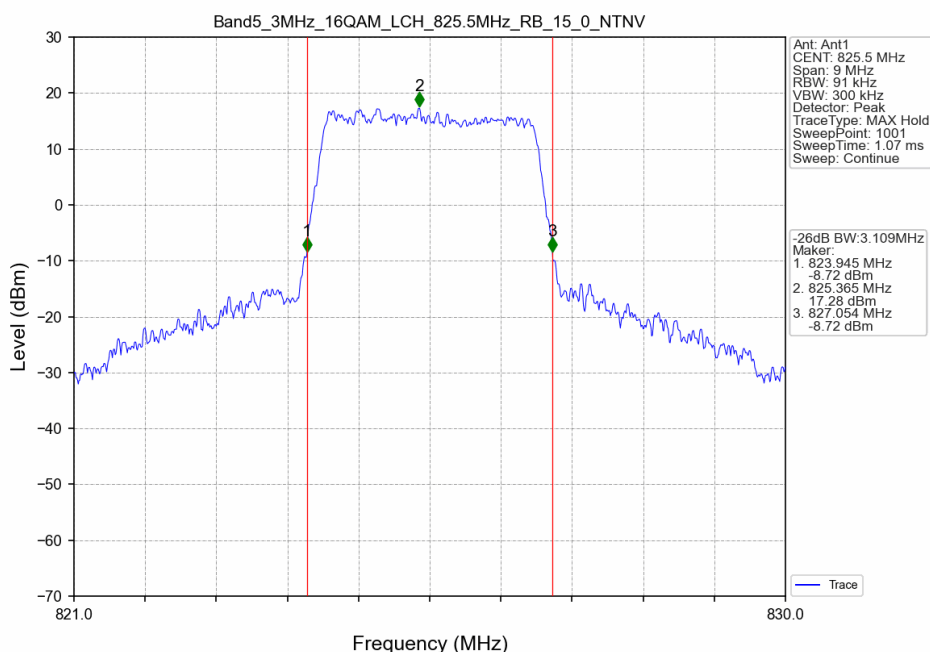
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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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

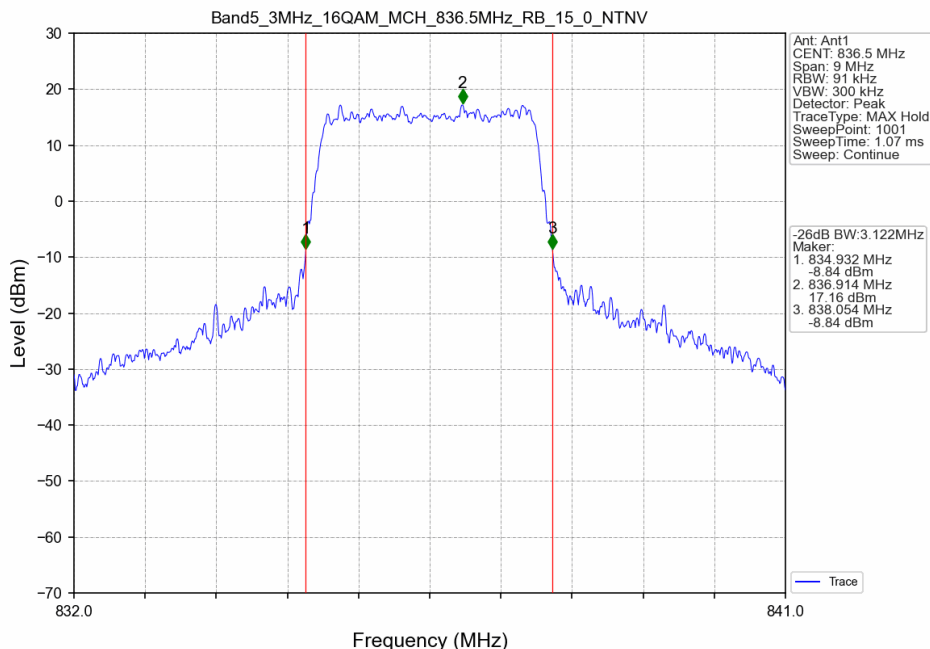


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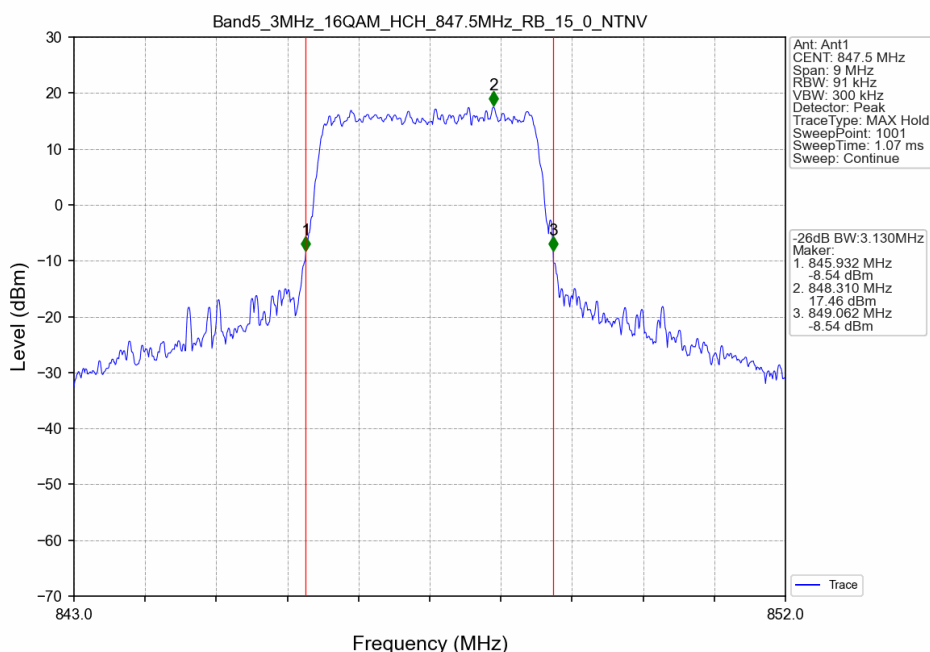
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Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



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



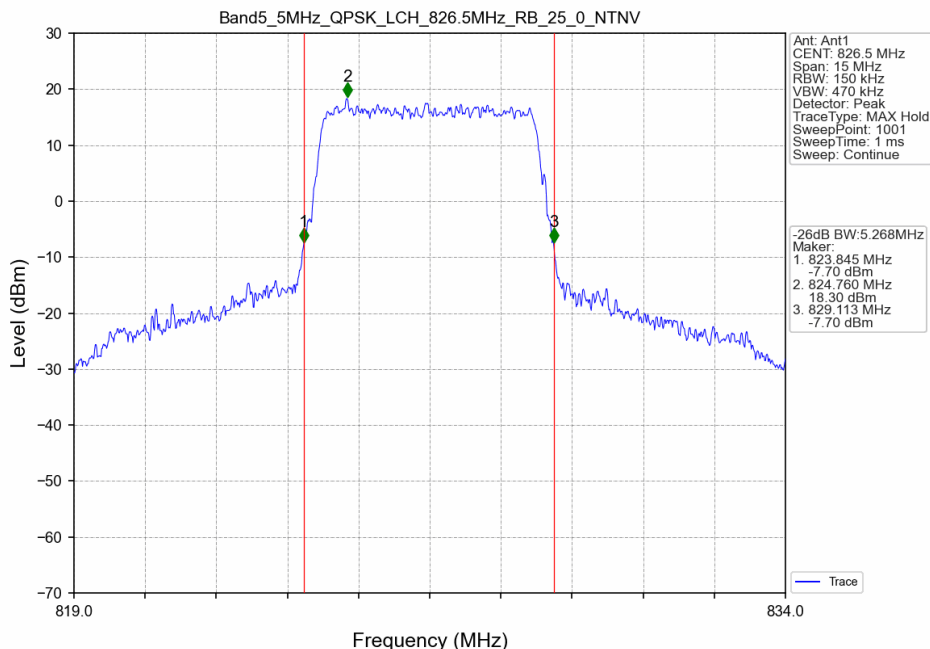
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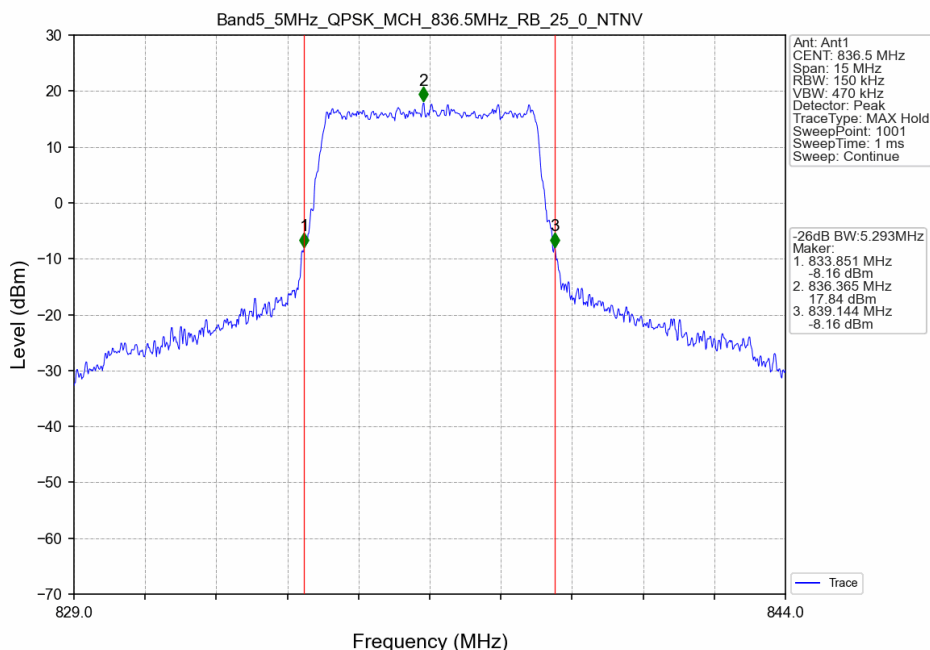
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Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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

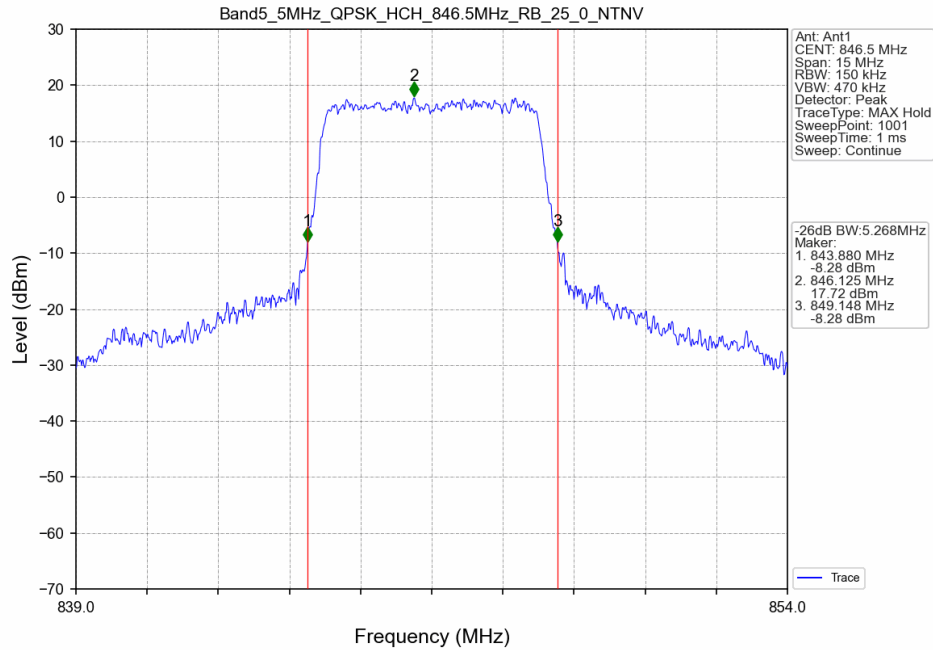


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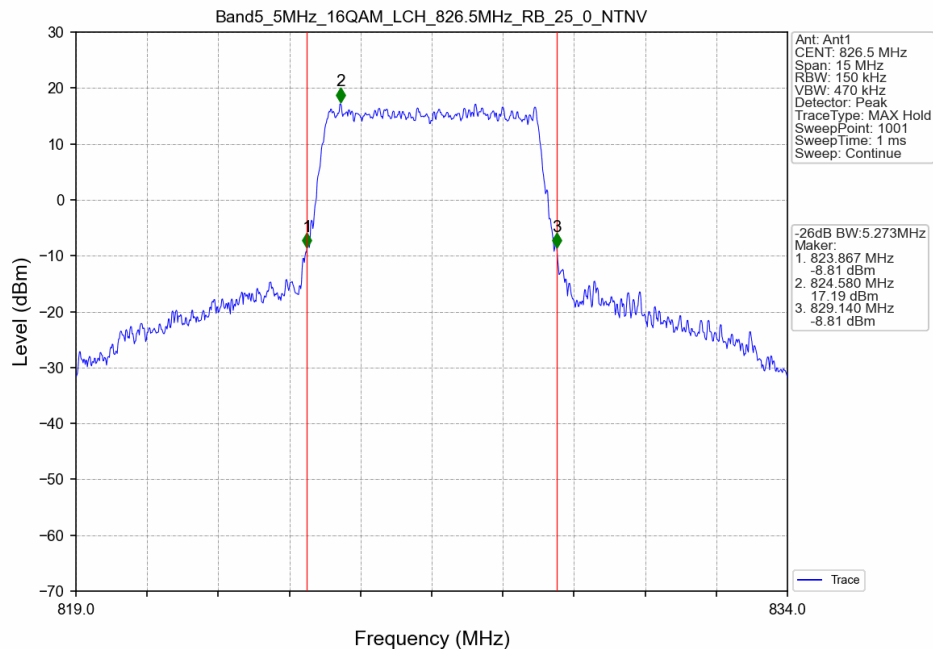
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



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

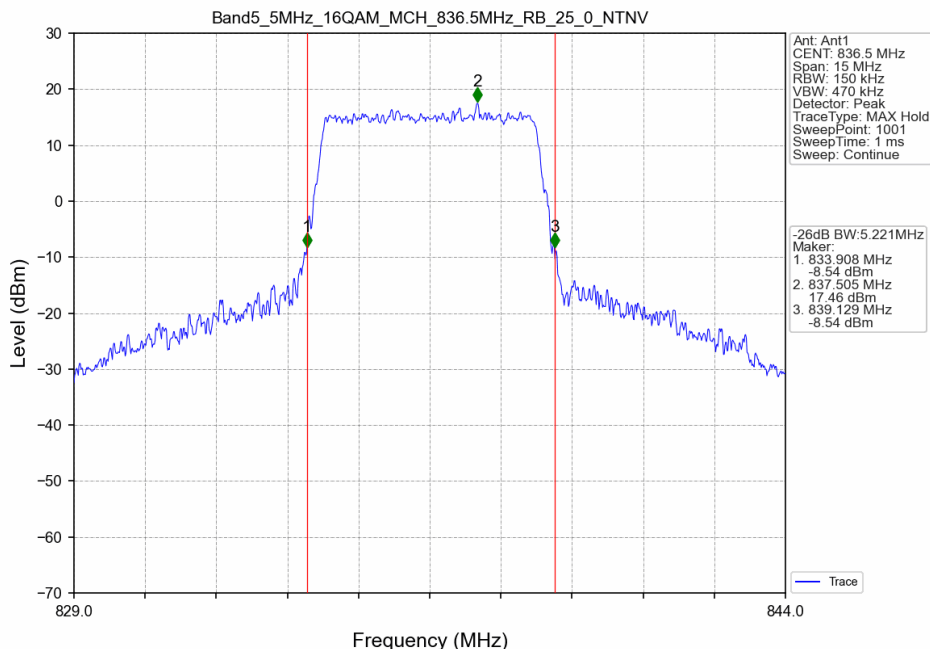


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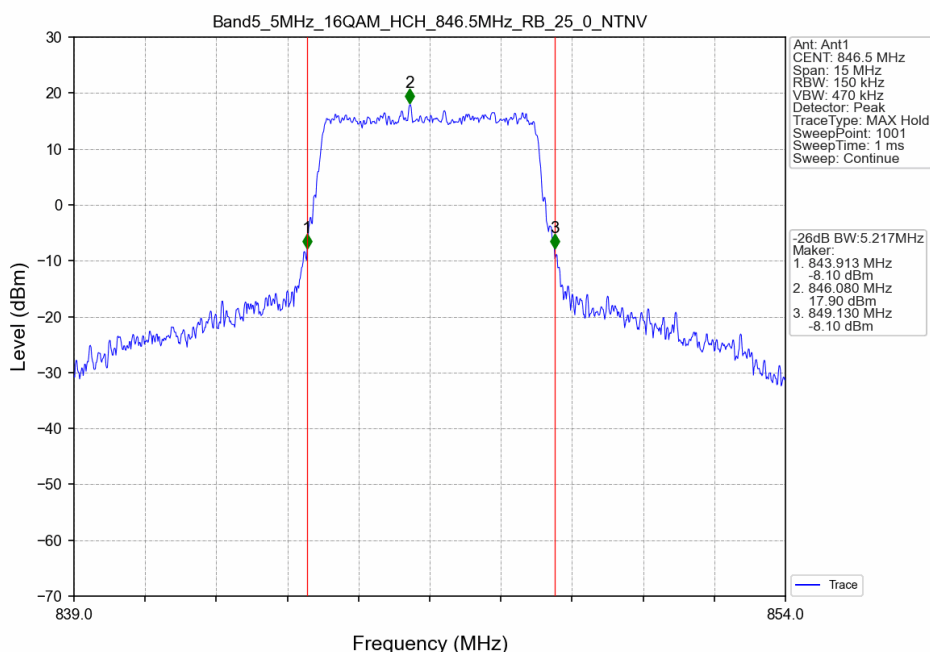
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Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

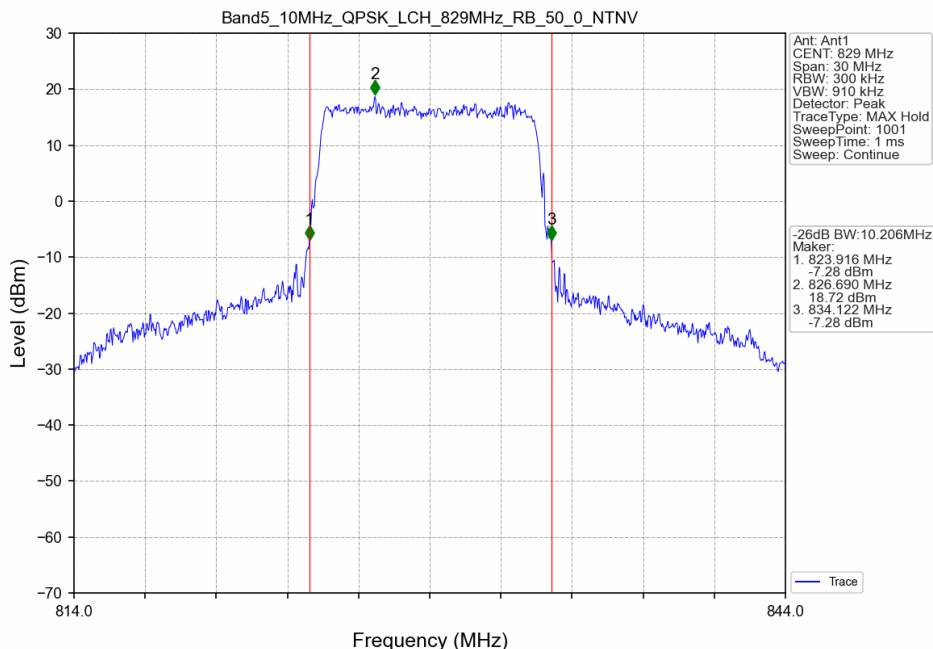


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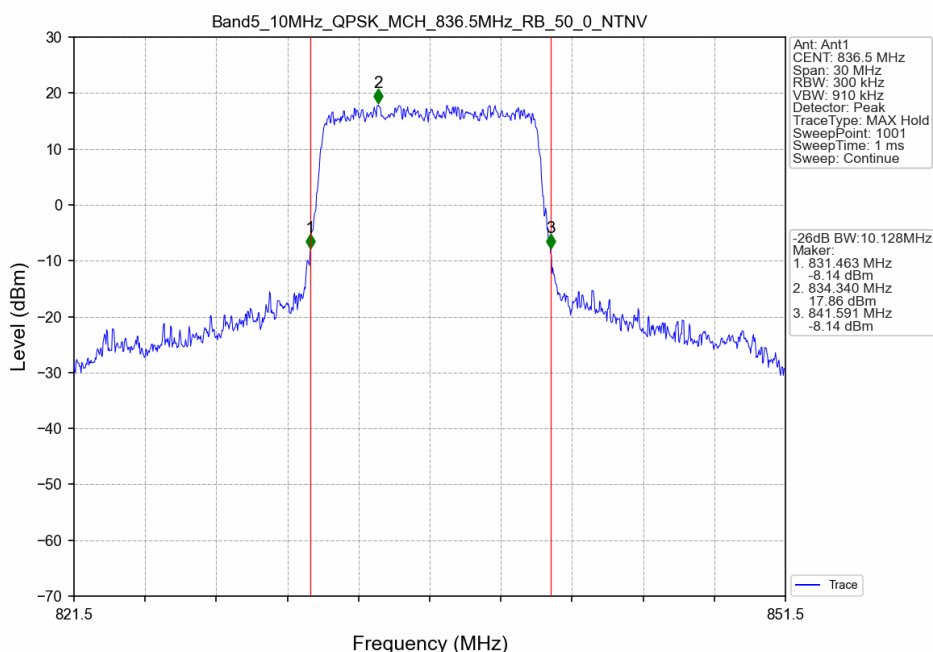
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Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV

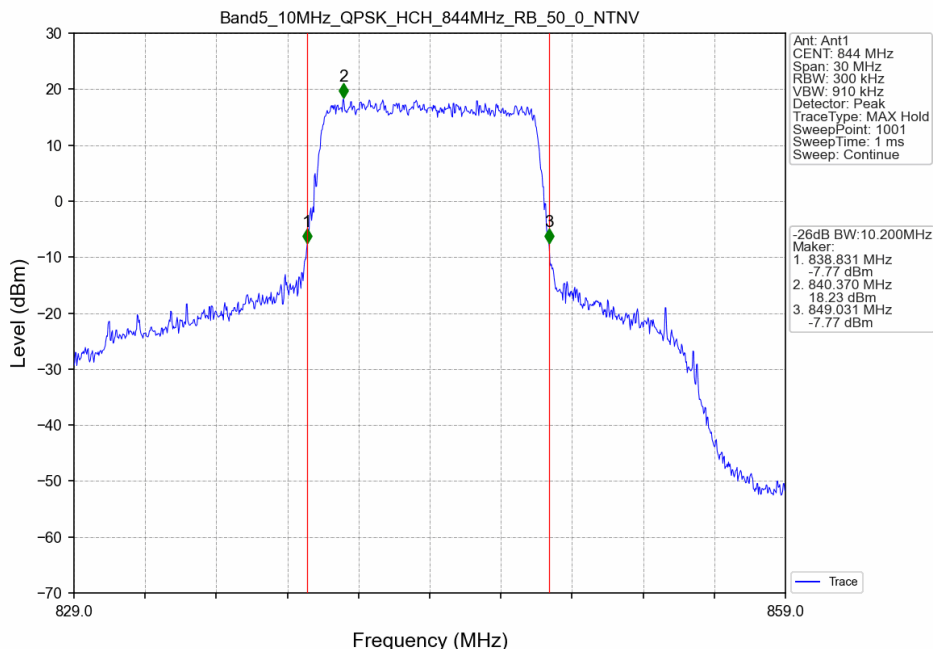


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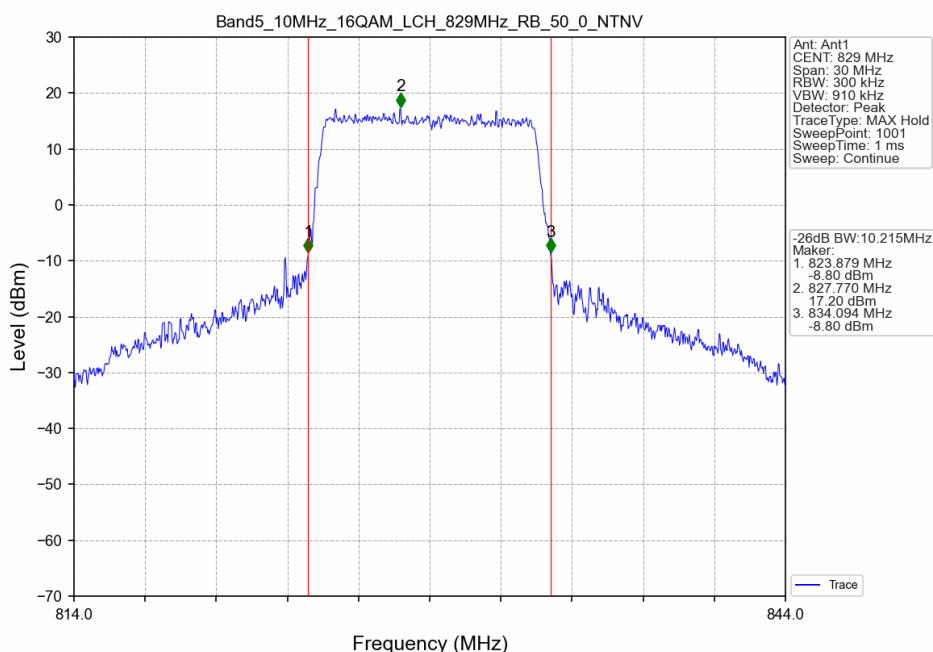
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



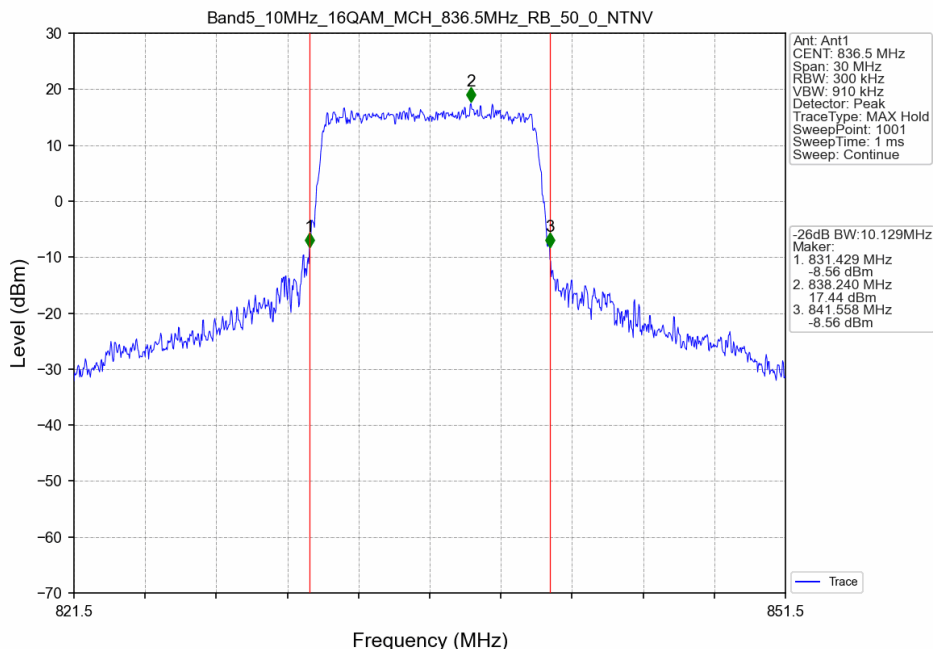
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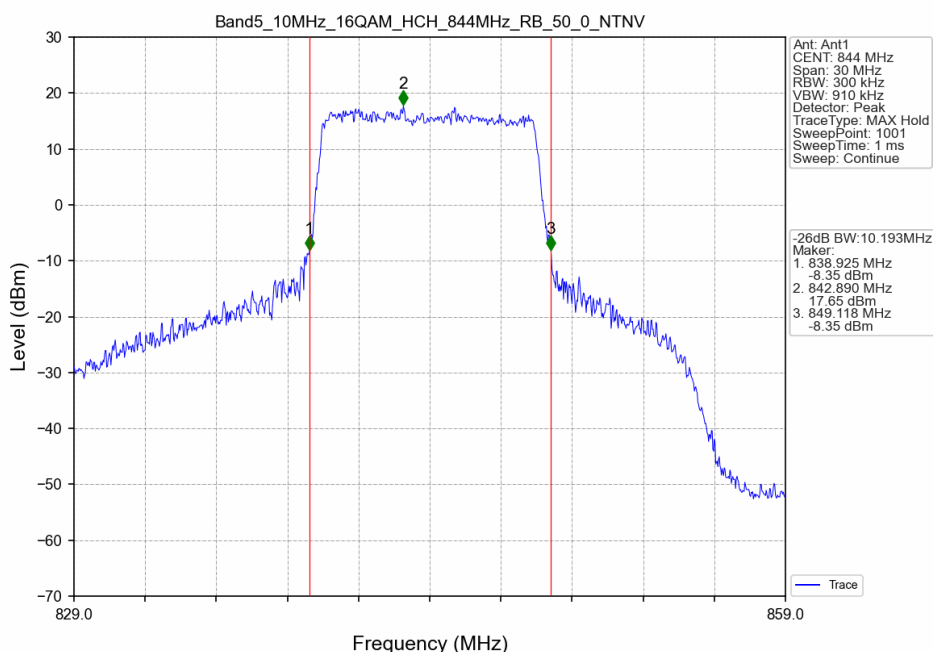
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Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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### 4. Peak-Average Ratio

#### 4.1 Test Result

##### 4.1.1 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	5.14	<=13	Pass
	836.5	50	0	5.07	<=13	Pass
	844	50	0	5.12	<=13	Pass
16QAM	829	50	0	5.93	<=13	Pass
	836.5	50	0	5.91	<=13	Pass
	844	50	0	5.93	<=13	Pass



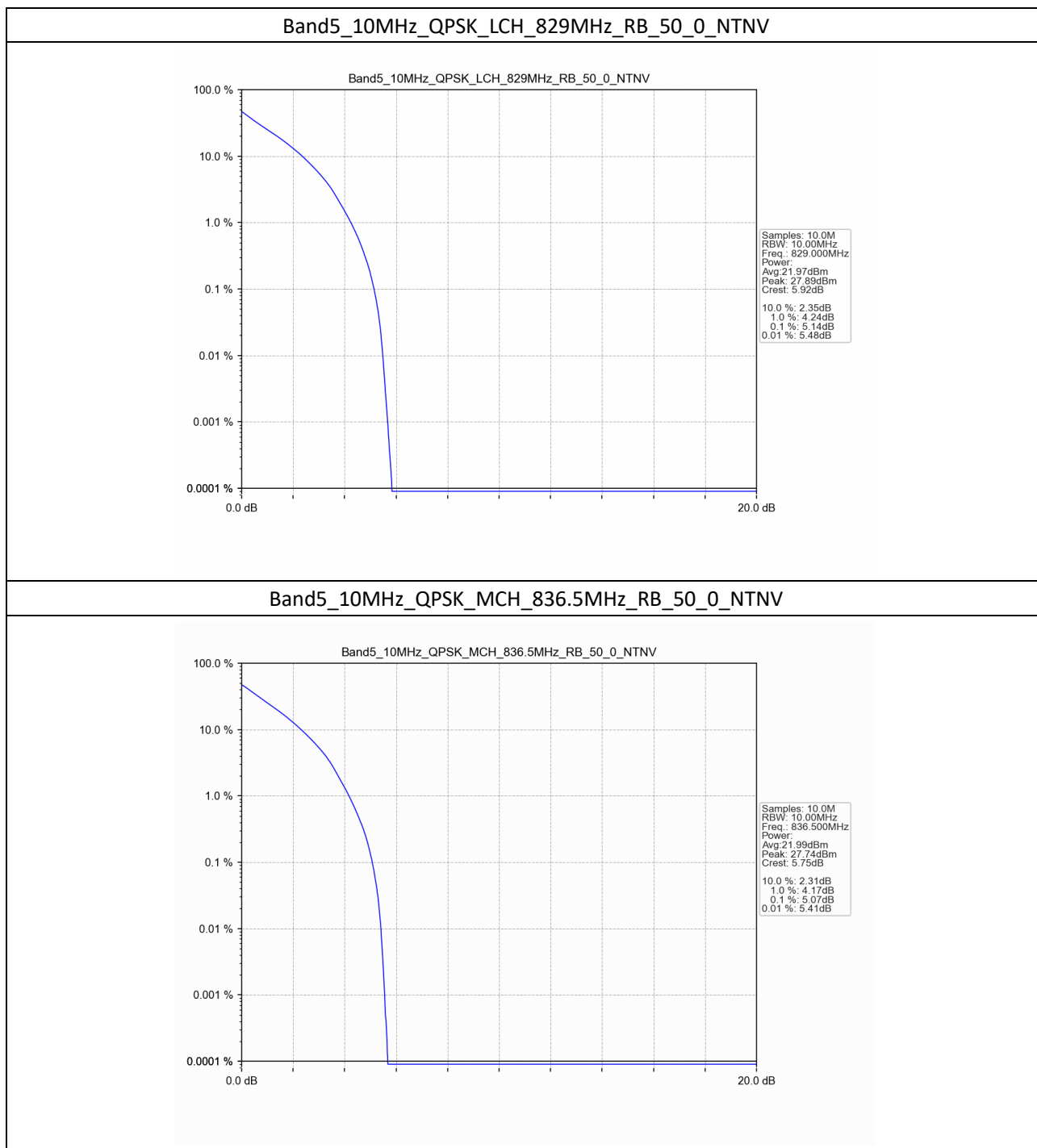
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### 4.2 Test Graph

#### 4.2.1 B5\_10MHz

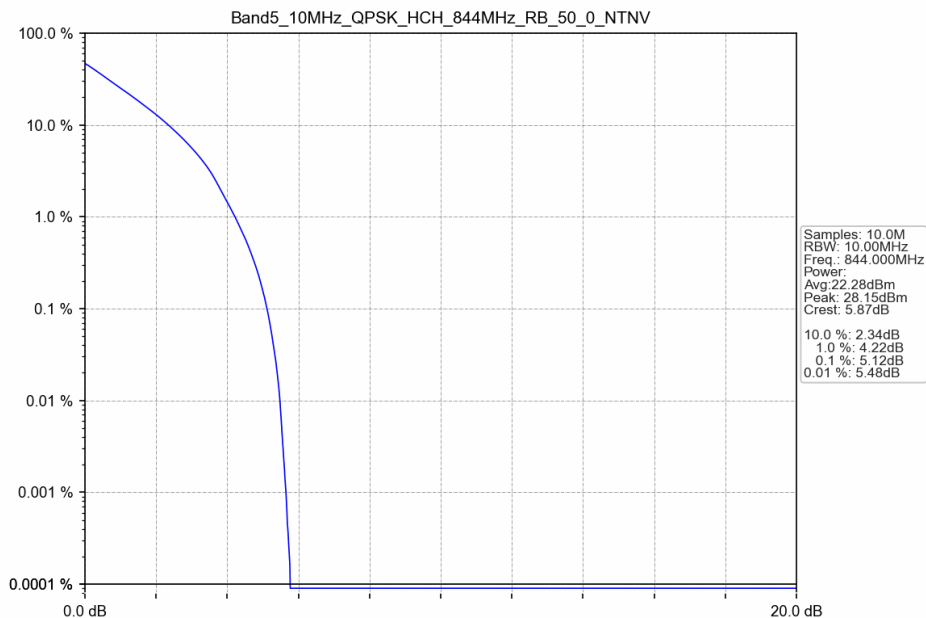


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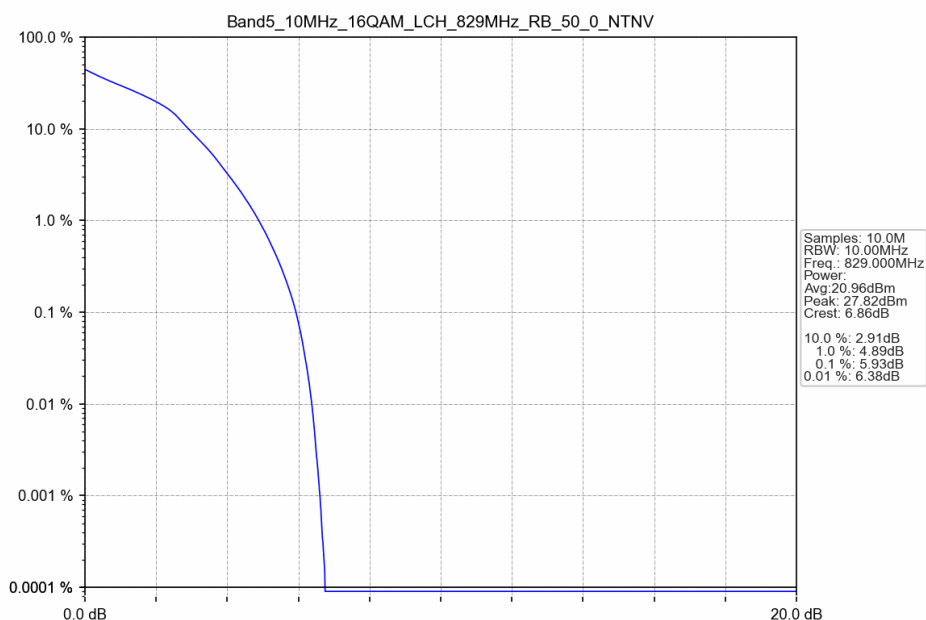
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV

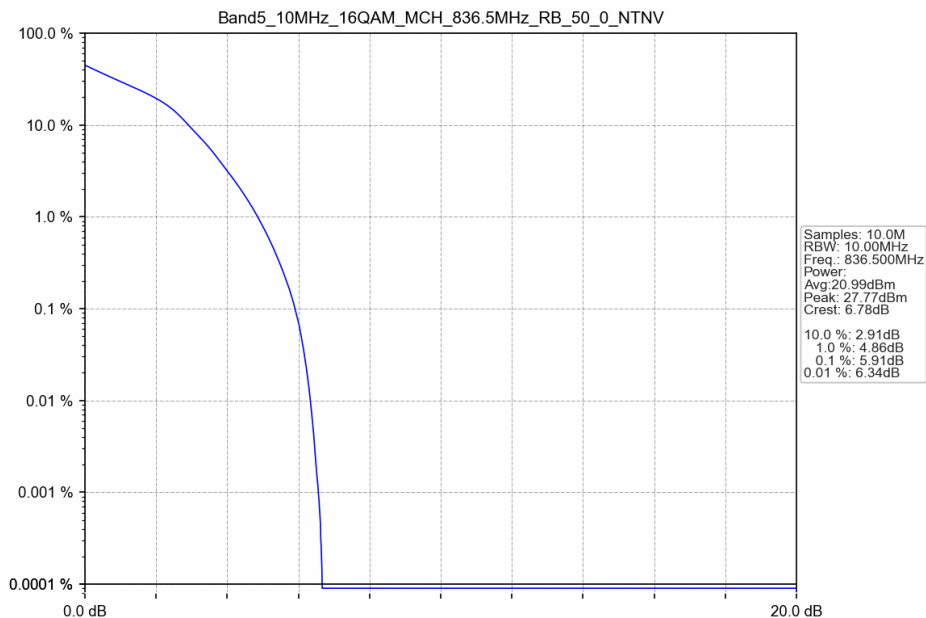


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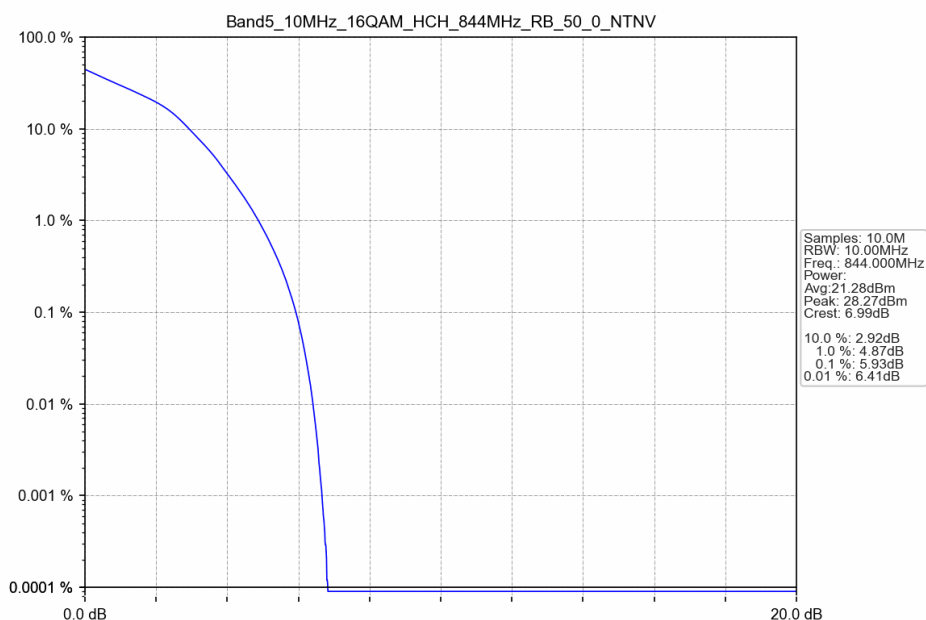
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Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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### 5. Spurious Emission

#### 5.1.1 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

#### 5.1.2 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

#### 5.1.3 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



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### 5.1.4 B5\_10MHz

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		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



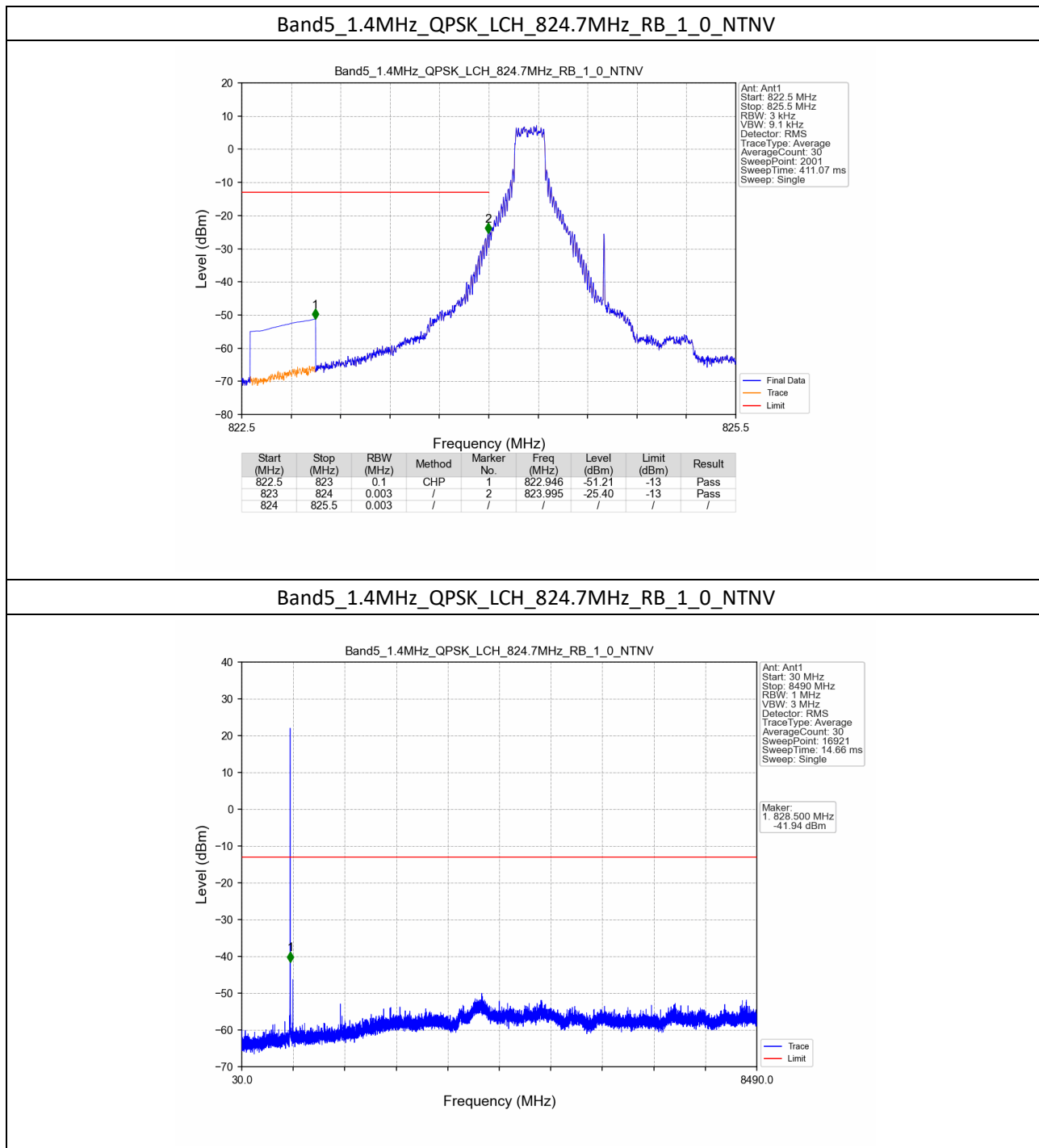
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### 5.2 Test Graph

#### 5.2.1 B5\_1.4MHz

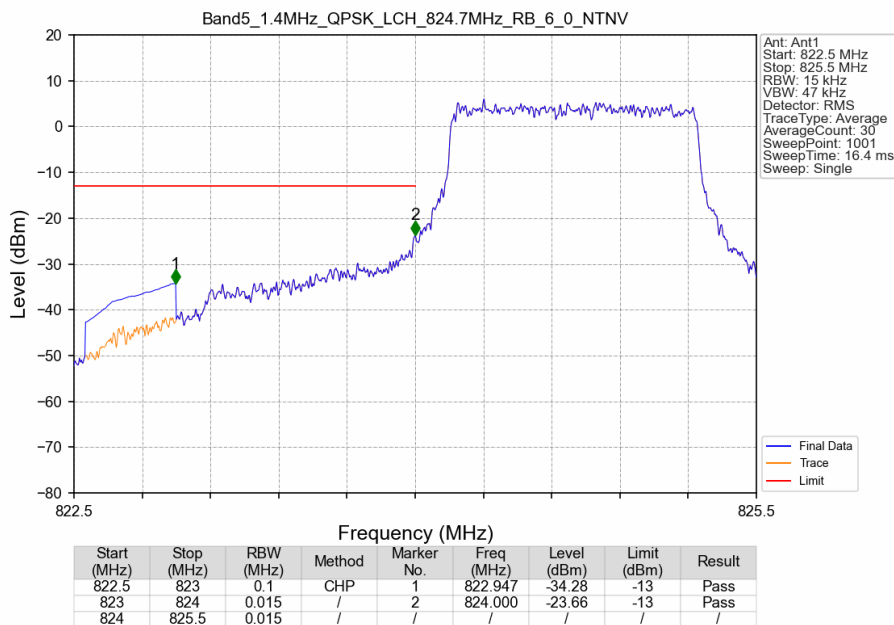


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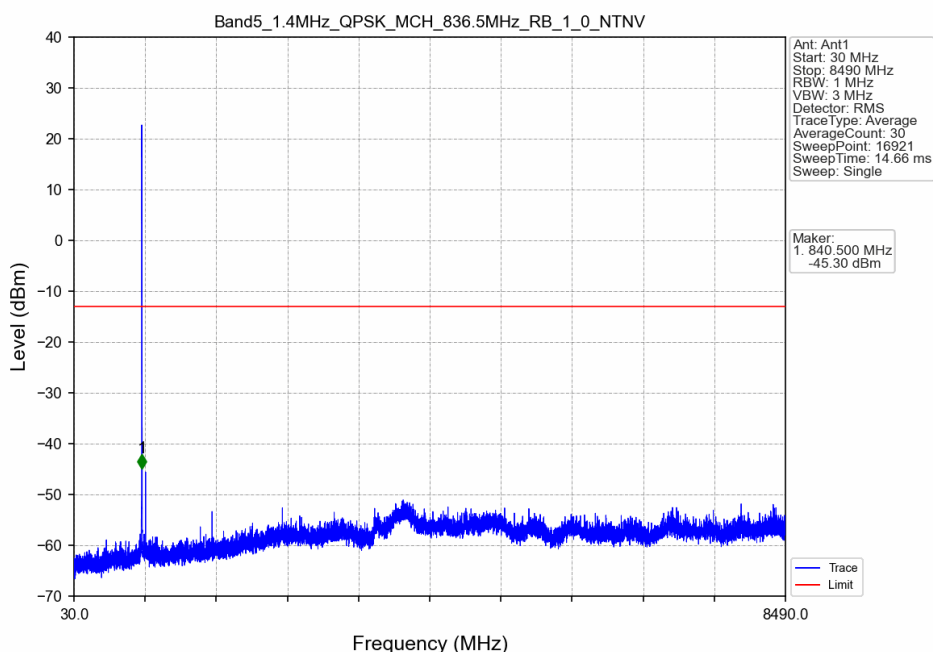
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### Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



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

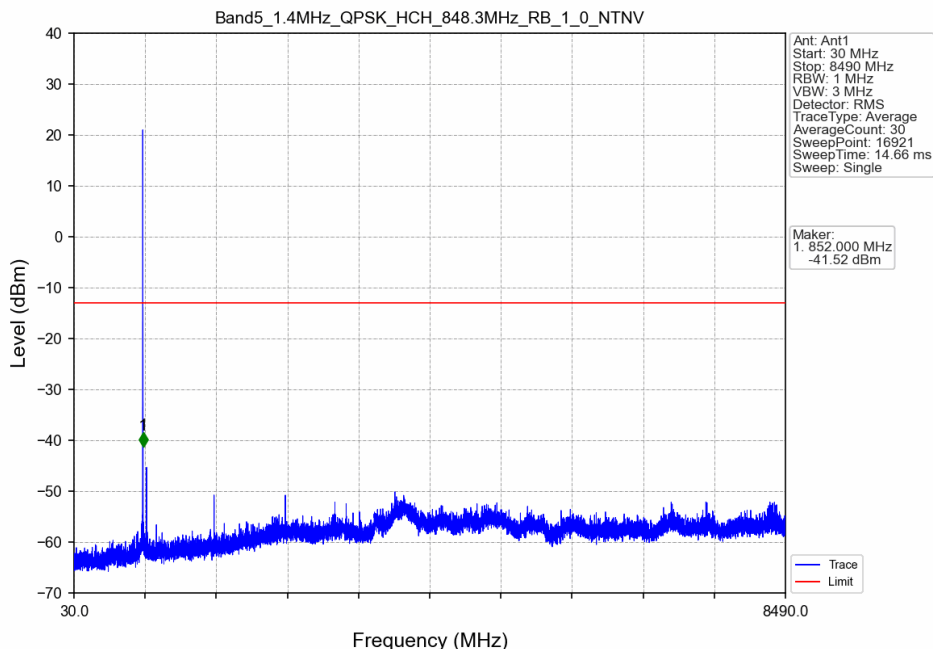


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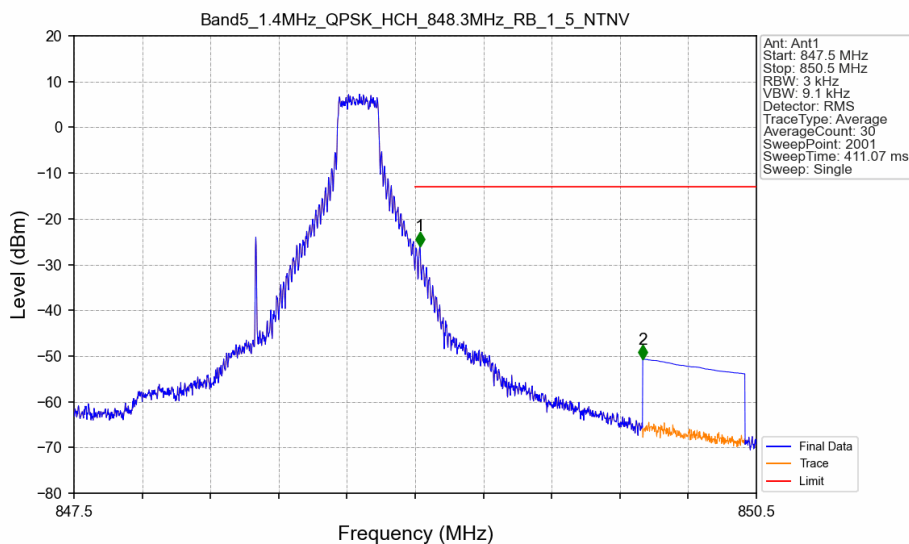
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



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	/	/	/	/	/	/
849	850	0.003	/	1	849.021	-25.97	-13	Pass
850	850.5	0.1	CHP	2	850.000	-50.67	-13	Pass



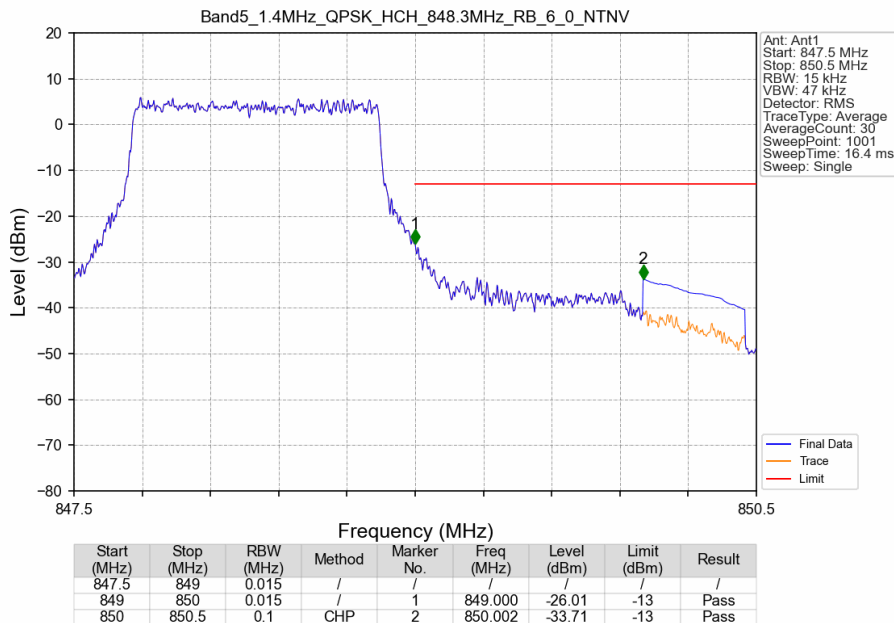
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### Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



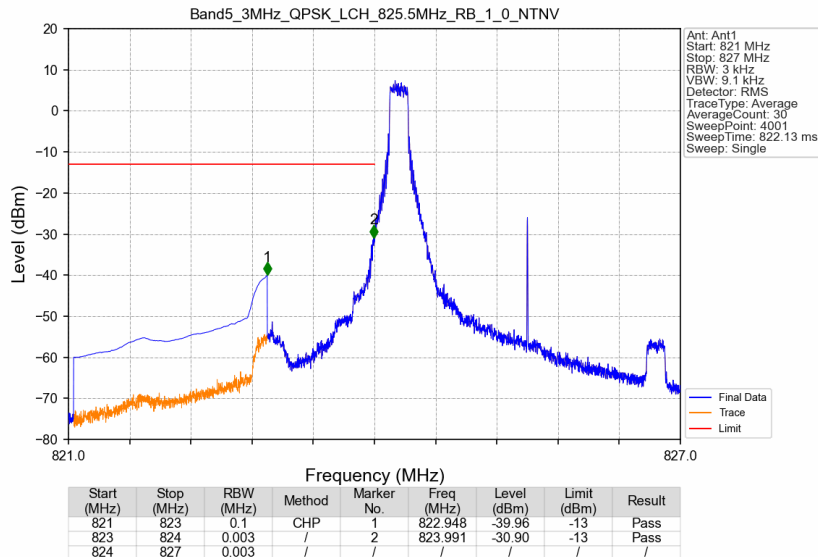
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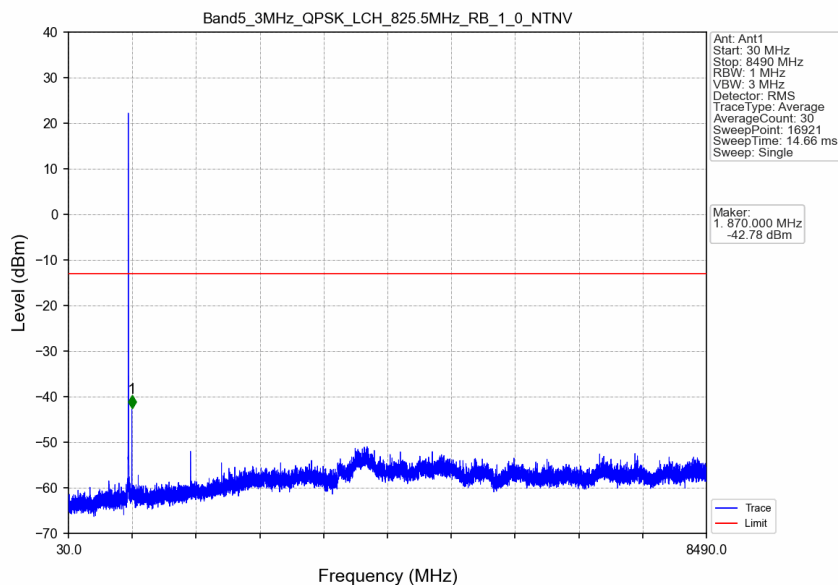
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### 5.2.2 B5\_3MHz

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



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

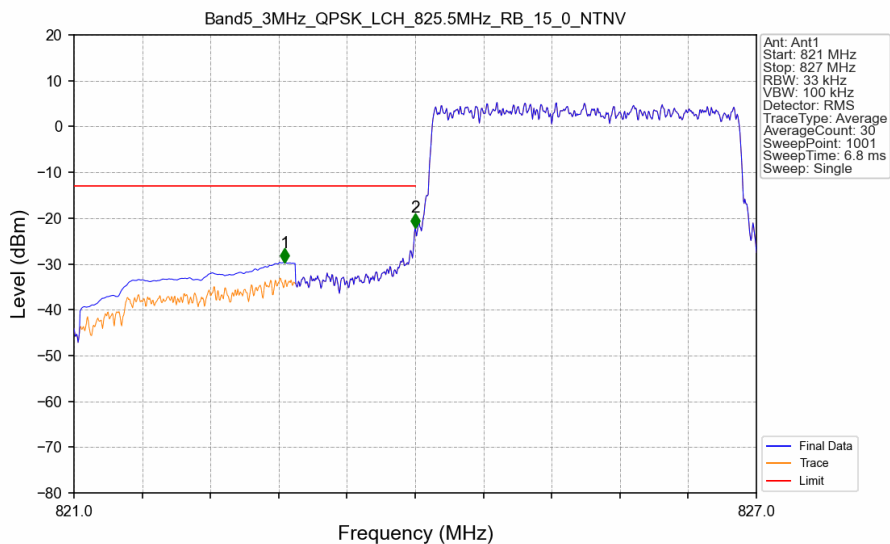


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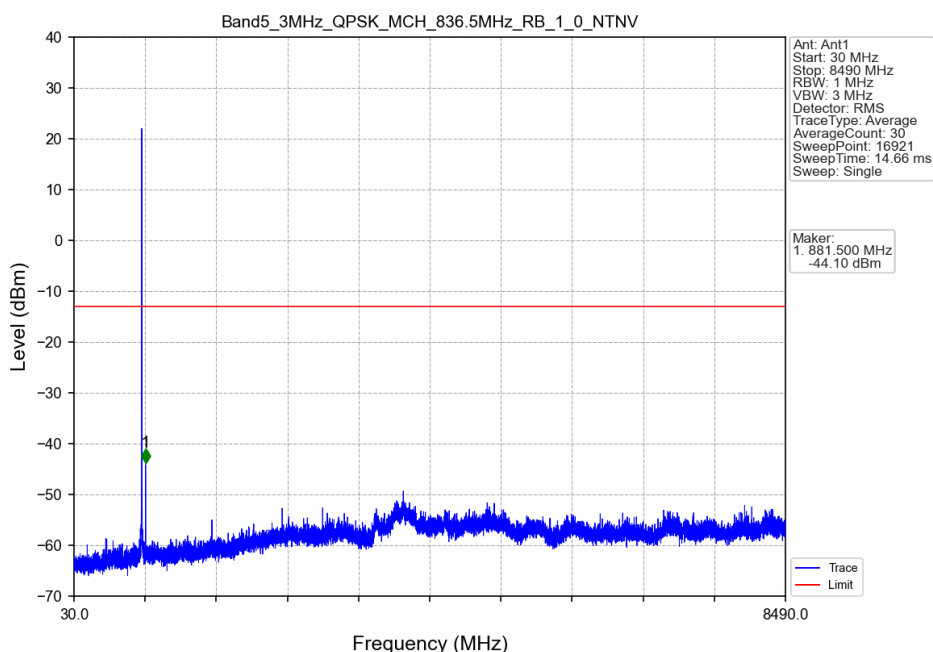
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### Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.854	-29.69	-13	Pass
823	824	0.033	/	2	824.000	-22.07	-13	Pass
824	827	0.033	/	/	/	/	/	/

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

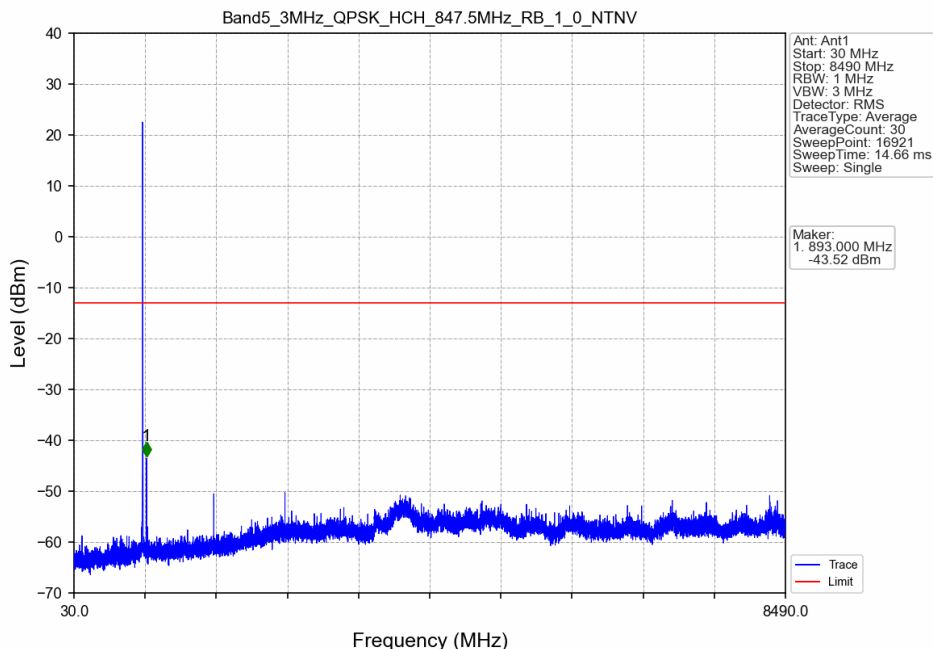


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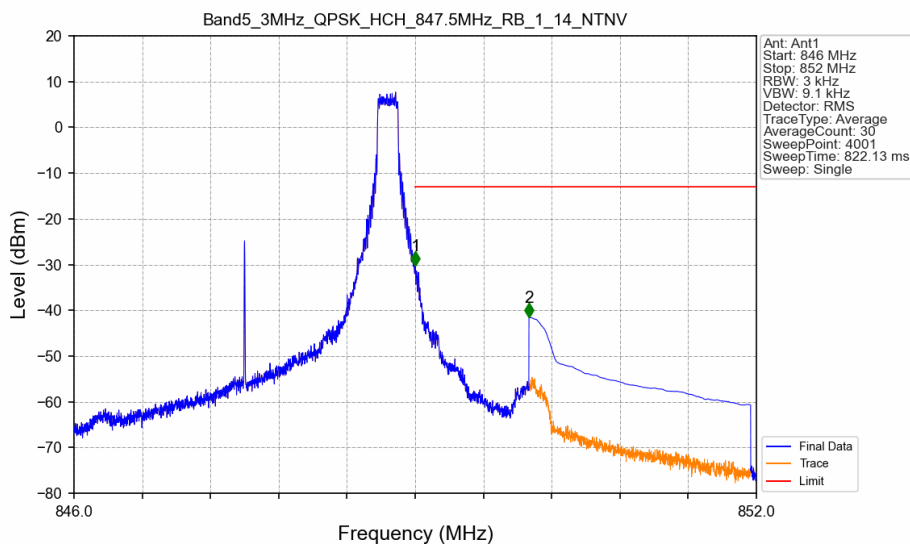
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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



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	/	1	849.001	-30.22	-13	Pass
849	850	0.003	/	2	850.004	-41.61	-13	Pass
850	852	0.1	CHP					

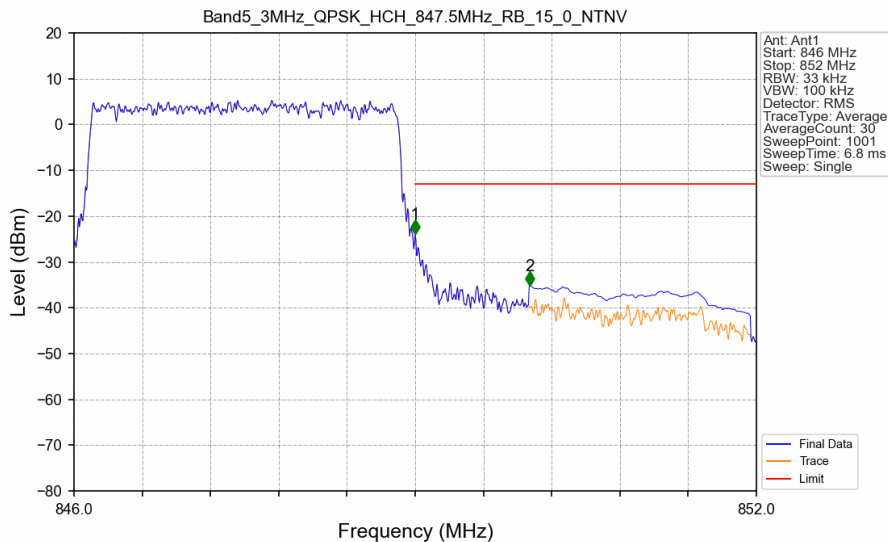


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### Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.033	/	1	849.000	-23.96	-13	Pass
849	850	0.033	/	2	850.008	-35.25	-13	Pass
850	852	0.1	CHP					



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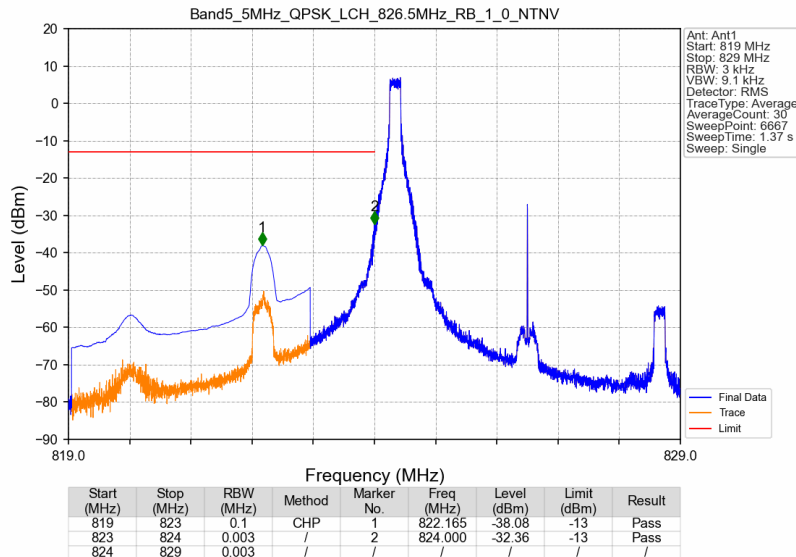
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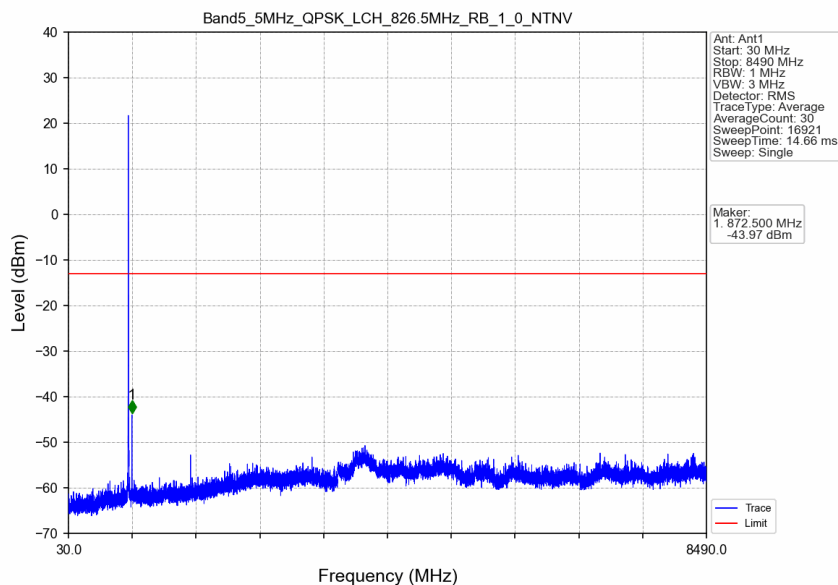


### 5.2.3 B5\_5MHz

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



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

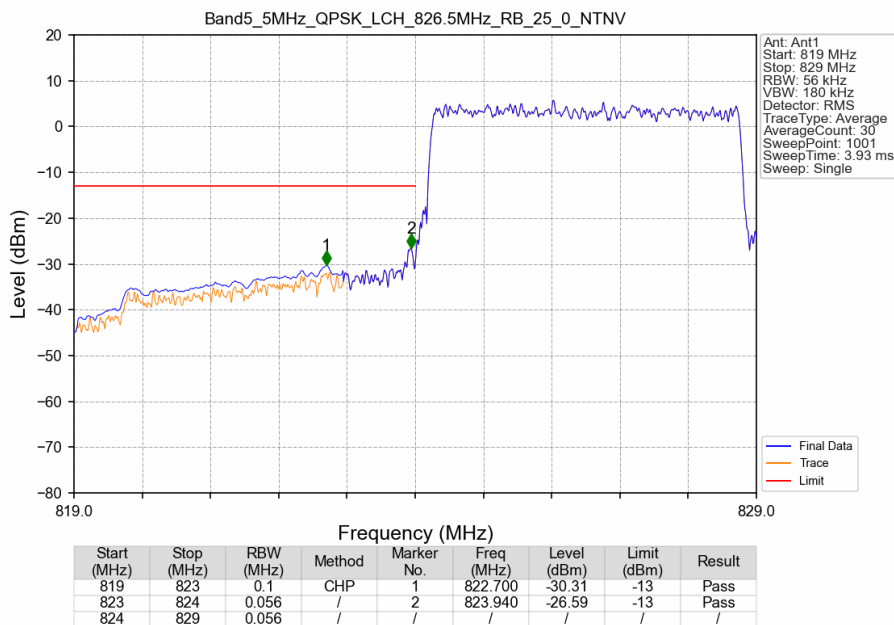


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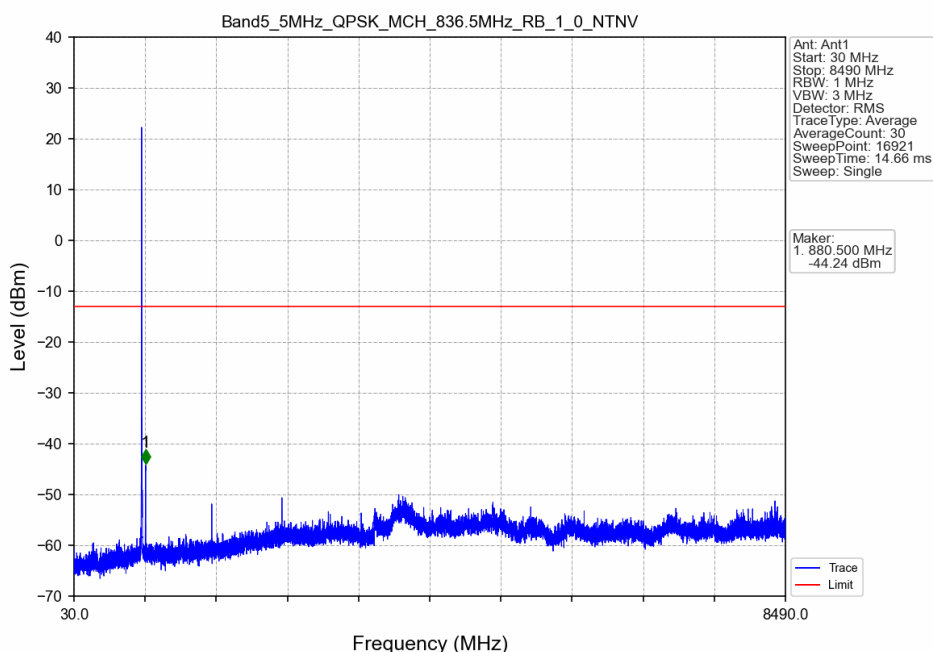
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### Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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

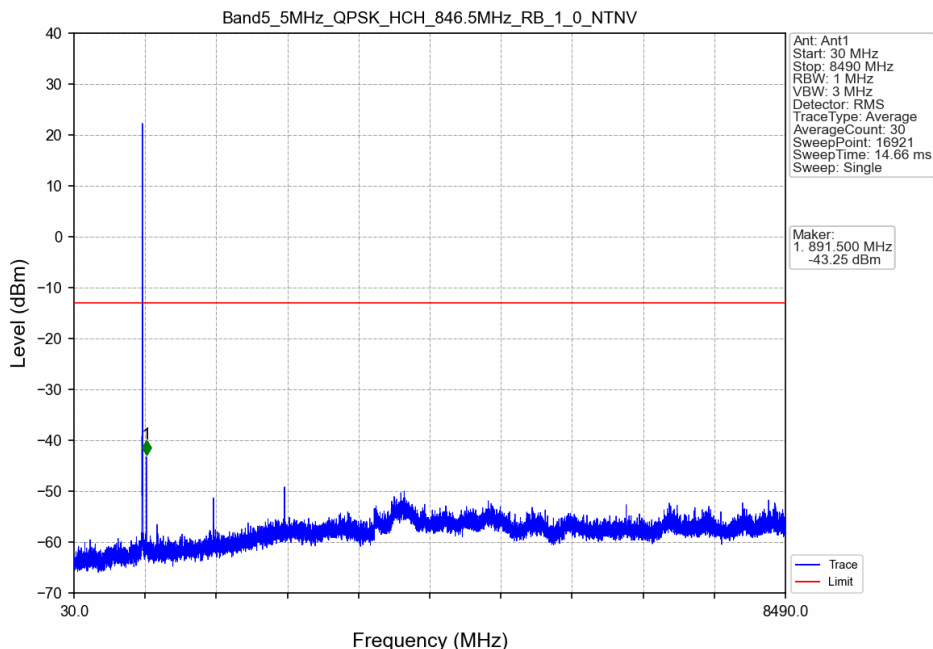


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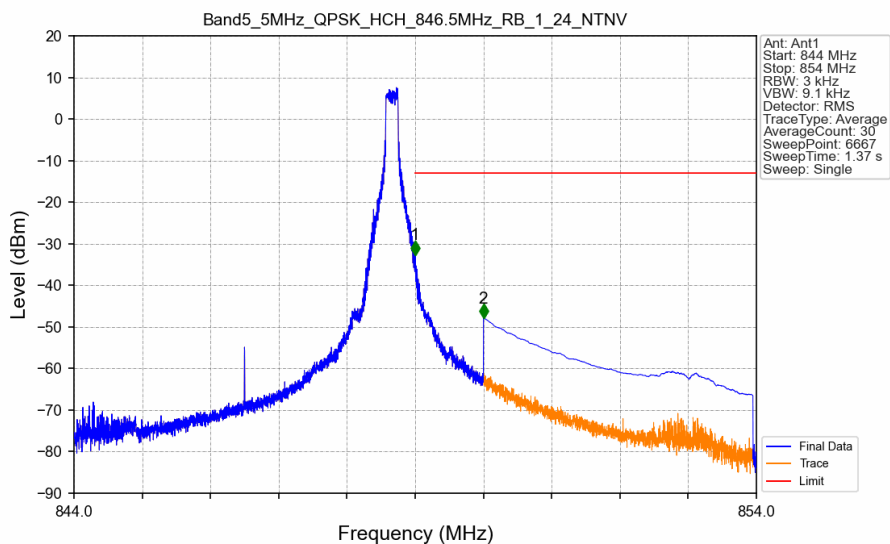
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



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



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.000	-32.69	-13	Pass
850	854	0.1	CHP	2	850.001	-47.93	-13	Pass

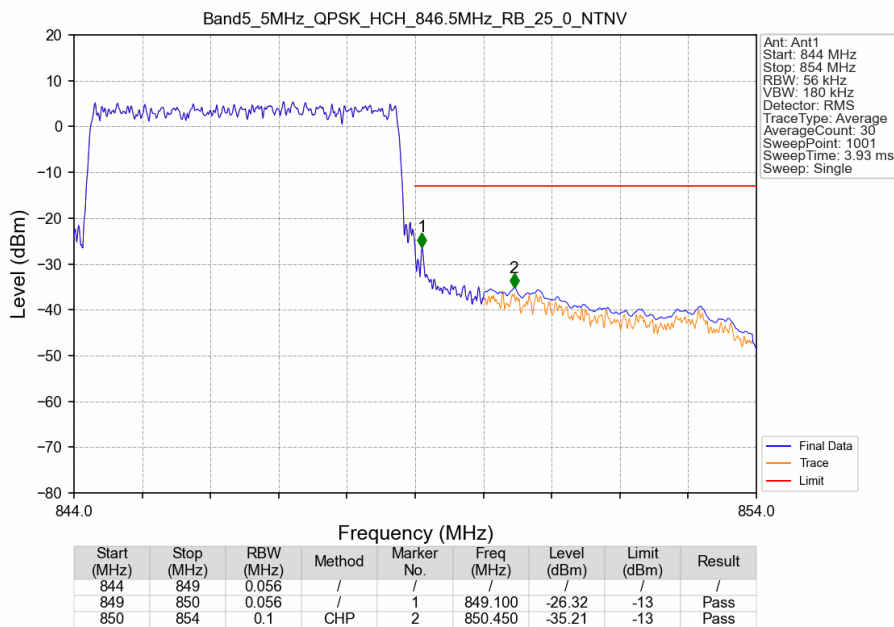


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## Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



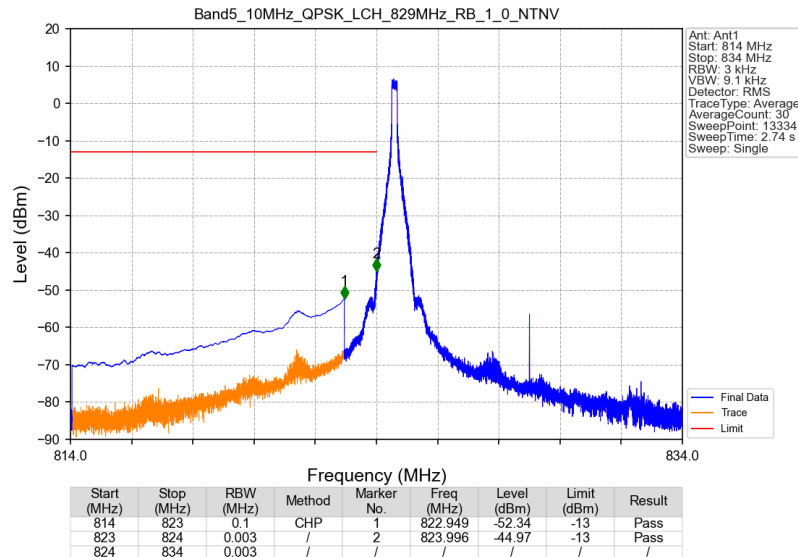
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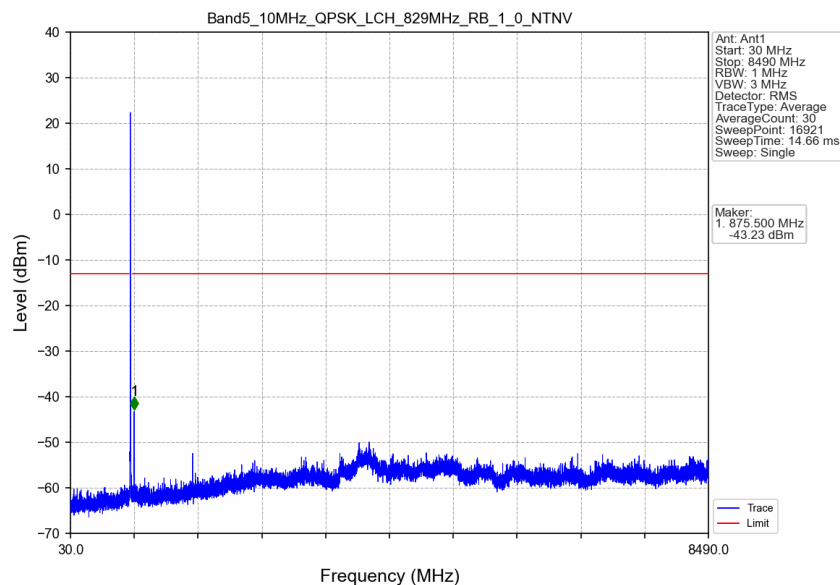
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### 5.2.4 B5\_10MHz

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



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



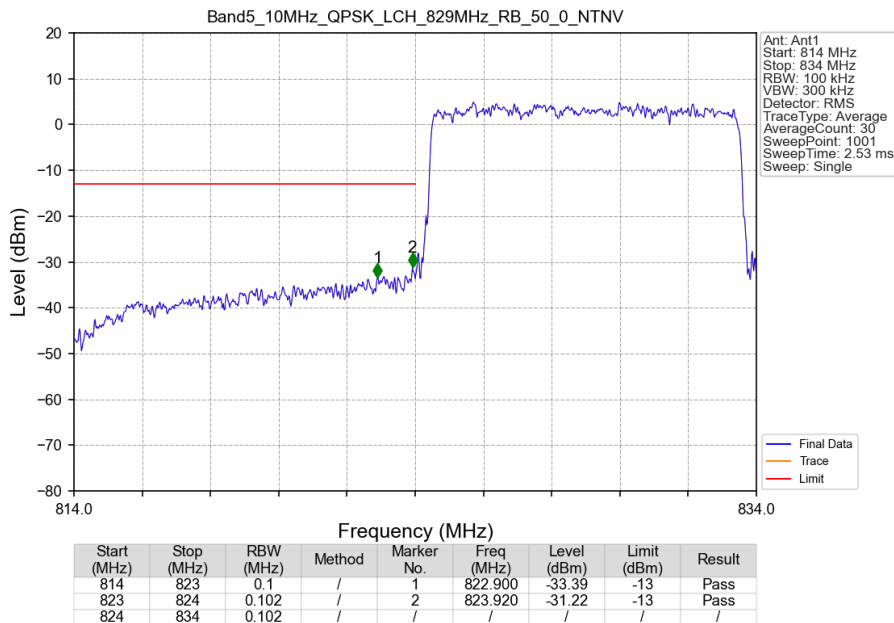
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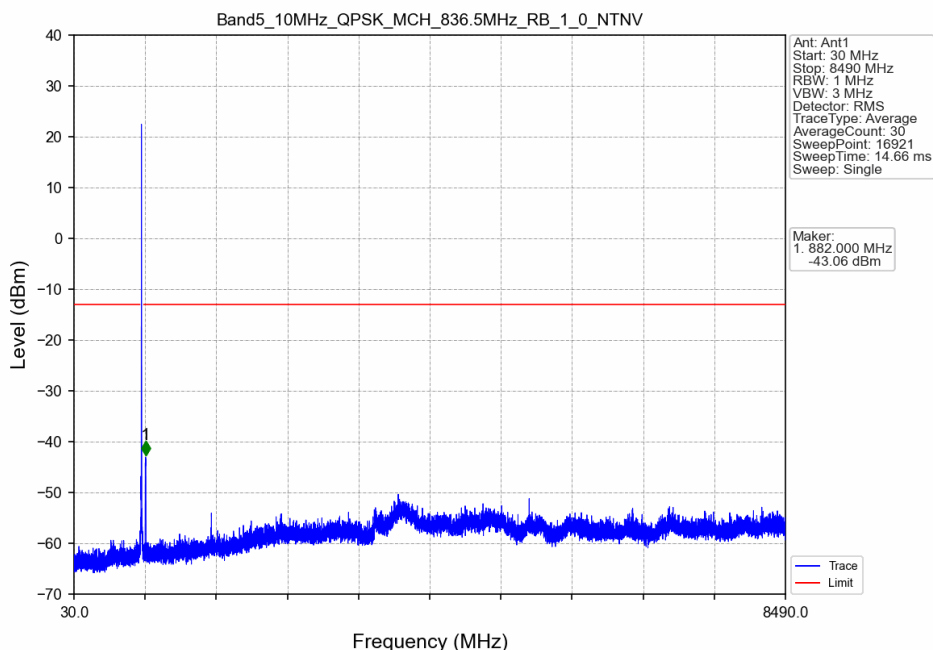
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### Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



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

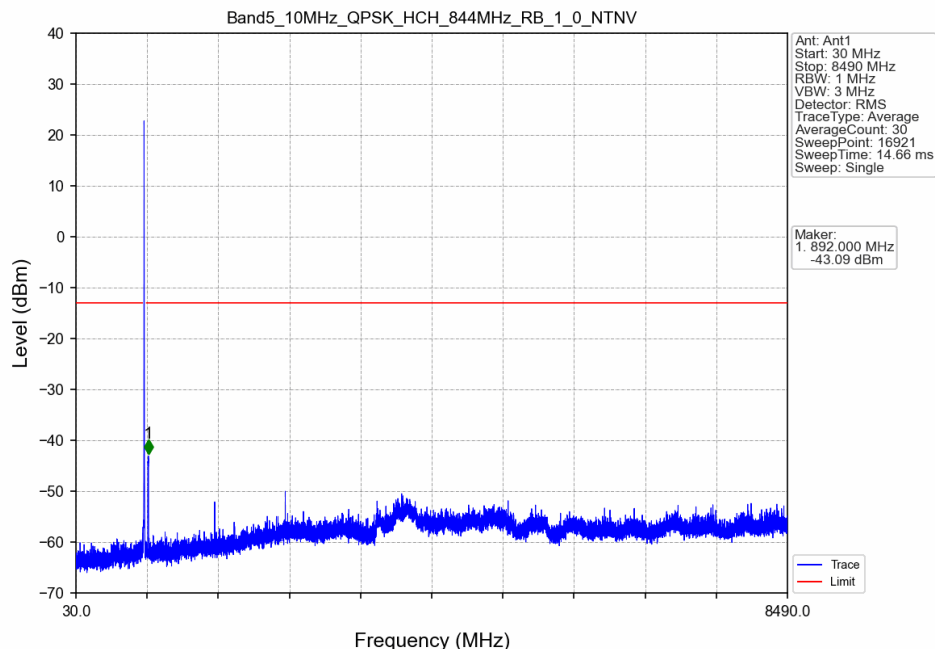


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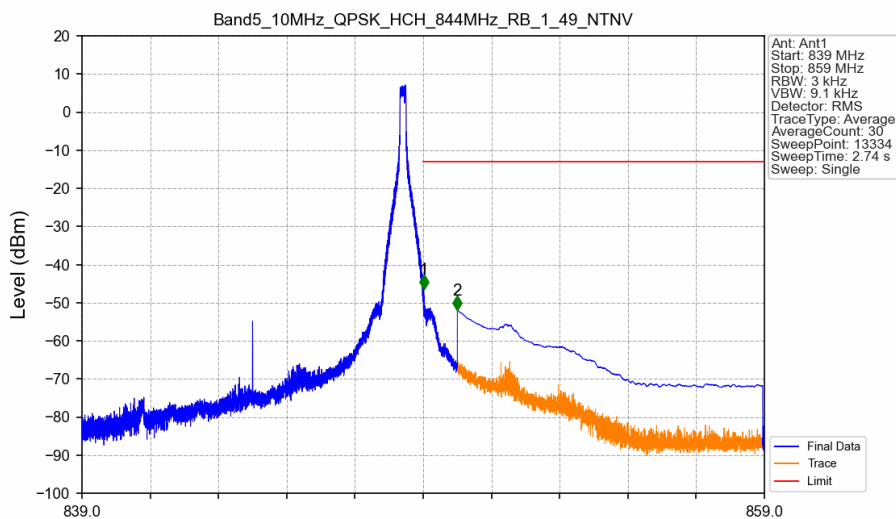
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_0\_NTNV



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	/	1	849.016	-46.39	-13	Pass
849	850	0.003	/	2	850.001	-51.97	-13	Pass
850	859	0.1	CHP					

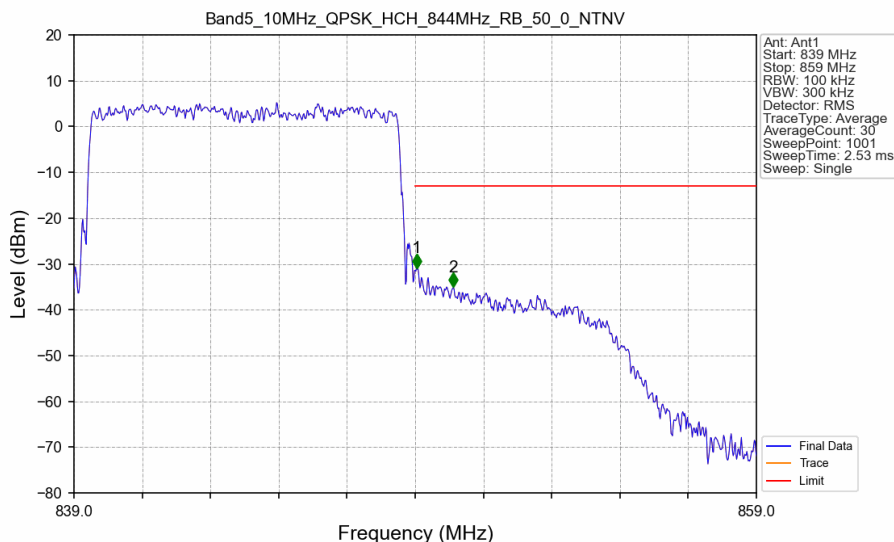


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### Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.102	/	/	/	/	/	/
849	850	0.102	/	1	849.040	-30.89	-13	Pass
850	859	0.1	/	2	850.120	-35.09	-13	Pass



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## 6. Field Strength of Spurious Radiation

LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649.0	-65.33	-13	-52.33	-68.73	2.1	5.5	Horizontal	Pass
2473.5	-63.33	-13	-50.33	-66.45	2.64	5.76	Horizontal	Pass
3298.0	-62.71	-13	-49.71	-67.21	3.16	7.66	Horizontal	Pass
1649.0	-66.22	-13	-53.22	-69.62	2.1	5.5	Vertical	Pass
2473.5	-63.47	-13	-50.47	-66.59	2.64	5.76	Vertical	Pass
3298.0	-62.65	-13	-49.65	-67.15	3.16	7.66	Vertical	Pass
LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664.0	-66.2	-13	-53.2	-69.56	2.11	5.47	Horizontal	Pass
2496.0	-63.3	-13	-50.3	-66.45	2.66	5.81	Horizontal	Pass
3328.0	-61.41	-13	-48.41	-65.97	3.18	7.74	Horizontal	Pass
1664.0	-67.14	-13	-54.14	-70.5	2.11	5.47	Vertical	Pass
2496.0	-63.03	-13	-50.03	-66.18	2.66	5.81	Vertical	Pass
3328.0	-61.91	-13	-48.91	-66.47	3.18	7.74	Vertical	Pass
LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679.0	-65.58	-13	-52.58	-68.88	2.13	5.43	Horizontal	Pass
2518.5	-63.13	-13	-50.13	-66.32	2.67	5.86	Horizontal	Pass
3358.0	-60.86	-13	-47.86	-65.48	3.2	7.82	Horizontal	Pass
1679.0	-65.83	-13	-52.83	-69.13	2.13	5.43	Vertical	Pass
2518.5	-62.75	-13	-49.75	-65.94	2.67	5.86	Vertical	Pass
3358.0	-61.13	-13	-48.13	-65.75	3.2	7.82	Vertical	Pass

---End of Attachment---



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