



Report No.: SEWM2311000466RG01

Rev.: 01

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# Appendix B.7

## LTE Band 5



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

#### 1.1 B5\_1.4MHz\_ERPAnt0

##### 1.1.1 Test Result

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	23.02	-3.00	17.87	<=38.45	Pass		
			2	22.98	-3.00	17.83	<=38.45	Pass		
			5	23.04	-3.00	17.89	<=38.45	Pass		
		3	0	23.08	-3.00	17.93	<=38.45	Pass		
			2	23.08	-3.00	17.93	<=38.45	Pass		
			3	23.05	-3.00	17.90	<=38.45	Pass		
		6	0	22.10	-3.00	16.95	<=38.45	Pass		
		836.5	1	0	23.09	-3.00	17.94	<=38.45	Pass	
				2	23.11	-3.00	17.96	<=38.45	Pass	
	5			23.16	-3.00	18.01	<=38.45	Pass		
	3		0	23.13	-3.00	17.98	<=38.45	Pass		
			2	23.17	-3.00	18.02	<=38.45	Pass		
			3	23.18	-3.00	18.03	<=38.45	Pass		
	6		0	22.14	-3.00	16.99	<=38.45	Pass		
	848.3		1	0	21.40	-3.00	16.25	<=38.45	Pass	
				2	21.42	-3.00	16.27	<=38.45	Pass	
		5		21.41	-3.00	16.26	<=38.45	Pass		
		3	0	21.40	-3.00	16.25	<=38.45	Pass		
			2	21.39	-3.00	16.24	<=38.45	Pass		
			3	21.40	-3.00	16.25	<=38.45	Pass		
		6	0	21.40	-3.00	16.25	<=38.45	Pass		
		16QAM	824.7	1	0	22.24	-3.00	17.09	<=38.45	Pass
					2	22.23	-3.00	17.08	<=38.45	Pass
	5				22.26	-3.00	17.11	<=38.45	Pass	
3	0			22.05	-3.00	16.90	<=38.45	Pass		
	2			22.11	-3.00	16.96	<=38.45	Pass		
	3			22.08	-3.00	16.93	<=38.45	Pass		
6	0			21.13	-3.00	15.98	<=38.45	Pass		
836.5	1			0	22.17	-3.00	17.02	<=38.45	Pass	
				2	22.18	-3.00	17.03	<=38.45	Pass	
			5	22.22	-3.00	17.07	<=38.45	Pass		
	3		0	22.32	-3.00	17.17	<=38.45	Pass		
			2	22.38	-3.00	17.23	<=38.45	Pass		
			3	22.40	-3.00	17.25	<=38.45	Pass		
	6		0	21.18	-3.00	16.03	<=38.45	Pass		
	848.3		1	0	21.39	-3.00	16.24	<=38.45	Pass	
				2	21.40	-3.00	16.25	<=38.45	Pass	
5				21.41	-3.00	16.26	<=38.45	Pass		
3			0	21.40	-3.00	16.25	<=38.45	Pass		



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64QAM	824.7	2	2	21.40	-3.00	16.25	<=38.45	Pass	
			3	21.39	-3.00	16.24	<=38.45	Pass	
		6	0	21.41	-3.00	16.26	<=38.45	Pass	
			1	21.14	-3.00	15.99	<=38.45	Pass	
		3	2	21.15	-3.00	16.00	<=38.45	Pass	
			5	21.12	-3.00	15.97	<=38.45	Pass	
	0		21.31	-3.00	16.16	<=38.45	Pass		
	6	2	21.31	-3.00	16.16	<=38.45	Pass		
		3	21.30	-3.00	16.15	<=38.45	Pass		
		0	20.30	-3.00	15.15	<=38.45	Pass		
	836.5	1	0	21.51	-3.00	16.36	<=38.45	Pass	
			2	21.62	-3.00	16.47	<=38.45	Pass	
			5	21.59	-3.00	16.44	<=38.45	Pass	
		3	0	21.35	-3.00	16.20	<=38.45	Pass	
			2	21.39	-3.00	16.24	<=38.45	Pass	
			3	21.39	-3.00	16.24	<=38.45	Pass	
	6	0	20.20	-3.00	15.05	<=38.45	Pass		
		848.3	1	0	21.41	-3.00	16.26	<=38.45	Pass
				2	21.41	-3.00	16.26	<=38.45	Pass
	5			21.43	-3.00	16.28	<=38.45	Pass	
	3	0	21.39	-3.00	16.24	<=38.45	Pass		
		2	21.41	-3.00	16.26	<=38.45	Pass		
		3	21.39	-3.00	16.24	<=38.45	Pass		
	6	0	21.42	-3.00	16.27	<=38.45	Pass		
824.7		1	0	17.90	-3.00	12.75	<=38.45	Pass	
			2	17.85	-3.00	12.70	<=38.45	Pass	
	5		17.91	-3.00	12.76	<=38.45	Pass		
	3	0	17.91	-3.00	12.76	<=38.45	Pass		
		2	17.92	-3.00	12.77	<=38.45	Pass		
		3	17.93	-3.00	12.78	<=38.45	Pass		
6	0	18.16	-3.00	13.01	<=38.45	Pass			
	836.5	1	0	18.35	-3.00	13.20	<=38.45	Pass	
			2	18.45	-3.00	13.30	<=38.45	Pass	
5			18.43	-3.00	13.28	<=38.45	Pass		
3	0	18.07	-3.00	12.92	<=38.45	Pass			
	2	18.13	-3.00	12.98	<=38.45	Pass			
	3	18.12	-3.00	12.97	<=38.45	Pass			
6	0	18.07	-3.00	12.92	<=38.45	Pass			
	848.3	1	0	18.16	-3.00	13.01	<=38.45	Pass	
			2	18.11	-3.00	12.96	<=38.45	Pass	
5			18.19	-3.00	13.04	<=38.45	Pass		
3	0	18.16	-3.00	13.01	<=38.45	Pass			
	2	18.20	-3.00	13.05	<=38.45	Pass			
	3	18.22	-3.00	13.07	<=38.45	Pass			
6	0	18.43	-3.00	13.28	<=38.45	Pass			

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.2 B5\_3MHz\_ERP

1.2.1 Test Result

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	23.04	-3.00	17.89	<=38.45	Pass		
			7	23.01	-3.00	17.86	<=38.45	Pass		
			14	23.04	-3.00	17.89	<=38.45	Pass		
		8	0	22.10	-3.00	16.95	<=38.45	Pass		
			4	22.06	-3.00	16.91	<=38.45	Pass		
			7	22.06	-3.00	16.91	<=38.45	Pass		
		15	0	22.09	-3.00	16.94	<=38.45	Pass		
		836.5	1	0	23.08	-3.00	17.93	<=38.45	Pass	
				7	23.16	-3.00	18.01	<=38.45	Pass	
	14			23.13	-3.00	17.98	<=38.45	Pass		
	8		0	22.17	-3.00	17.02	<=38.45	Pass		
			4	22.18	-3.00	17.03	<=38.45	Pass		
			7	22.19	-3.00	17.04	<=38.45	Pass		
	15		0	22.17	-3.00	17.02	<=38.45	Pass		
	847.5		1	0	21.09	-3.00	15.94	<=38.45	Pass	
				7	21.08	-3.00	15.93	<=38.45	Pass	
		14		21.08	-3.00	15.93	<=38.45	Pass		
		8	0	21.08	-3.00	15.93	<=38.45	Pass		
			4	21.08	-3.00	15.93	<=38.45	Pass		
			7	21.08	-3.00	15.93	<=38.45	Pass		
		15	0	21.08	-3.00	15.93	<=38.45	Pass		
		16QAM	825.5	1	0	22.12	-3.00	16.97	<=38.45	Pass
					7	22.11	-3.00	16.96	<=38.45	Pass
	14				22.13	-3.00	16.98	<=38.45	Pass	
8	0			21.18	-3.00	16.03	<=38.45	Pass		
	4			21.15	-3.00	16.00	<=38.45	Pass		
	7			21.13	-3.00	15.98	<=38.45	Pass		
15	0			21.16	-3.00	16.01	<=38.45	Pass		
836.5	1			0	22.32	-3.00	17.17	<=38.45	Pass	
				7	22.39	-3.00	17.24	<=38.45	Pass	
			14	22.34	-3.00	17.19	<=38.45	Pass		
	8		0	21.14	-3.00	15.99	<=38.45	Pass		
			4	21.17	-3.00	16.02	<=38.45	Pass		
			7	21.18	-3.00	16.03	<=38.45	Pass		
	15		0	21.16	-3.00	16.01	<=38.45	Pass		
	847.5		1	0	21.09	-3.00	15.94	<=38.45	Pass	
				7	21.10	-3.00	15.95	<=38.45	Pass	
14				21.08	-3.00	15.93	<=38.45	Pass		
8			0	21.09	-3.00	15.94	<=38.45	Pass		
			4	21.09	-3.00	15.94	<=38.45	Pass		
			7	21.08	-3.00	15.93	<=38.45	Pass		



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		15	0	21.08	-3.00	15.93	<=38.45	Pass		
64QAM	825.5	1	0	20.96	-3.00	15.81	<=38.45	Pass		
			7	20.91	-3.00	15.76	<=38.45	Pass		
			14	20.89	-3.00	15.74	<=38.45	Pass		
			0	20.15	-3.00	15.00	<=38.45	Pass		
		8	4	20.10	-3.00	14.95	<=38.45	Pass		
			7	20.11	-3.00	14.96	<=38.45	Pass		
			15	20.13	-3.00	14.98	<=38.45	Pass		
		836.5	1	0	21.19	-3.00	16.04	<=38.45	Pass	
				7	21.27	-3.00	16.12	<=38.45	Pass	
	14			21.27	-3.00	16.12	<=38.45	Pass		
	0			20.07	-3.00	14.92	<=38.45	Pass		
	8		4	20.09	-3.00	14.94	<=38.45	Pass		
			7	20.10	-3.00	14.95	<=38.45	Pass		
			15	20.32	-3.00	15.17	<=38.45	Pass		
	847.5		1	0	21.10	-3.00	15.95	<=38.45	Pass	
				7	21.09	-3.00	15.94	<=38.45	Pass	
		14		21.08	-3.00	15.93	<=38.45	Pass		
		0		21.08	-3.00	15.93	<=38.45	Pass		
		8	4	21.10	-3.00	15.95	<=38.45	Pass		
			7	21.10	-3.00	15.95	<=38.45	Pass		
			15	21.09	-3.00	15.94	<=38.45	Pass		
		256QAM	825.5	1	0	18.11	-3.00	12.96	<=38.45	Pass
					7	18.13	-3.00	12.98	<=38.45	Pass
	14				18.13	-3.00	12.98	<=38.45	Pass	
0	18.21				-3.00	13.06	<=38.45	Pass		
8	4			18.17	-3.00	13.02	<=38.45	Pass		
	7			18.17	-3.00	13.02	<=38.45	Pass		
	15			18.13	-3.00	12.98	<=38.45	Pass		
836.5	1			0	17.97	-3.00	12.82	<=38.45	Pass	
				7	18.04	-3.00	12.89	<=38.45	Pass	
			14	18.01	-3.00	12.86	<=38.45	Pass		
			0	18.09	-3.00	12.94	<=38.45	Pass		
	8		4	18.12	-3.00	12.97	<=38.45	Pass		
			7	18.12	-3.00	12.97	<=38.45	Pass		
			15	18.28	-3.00	13.13	<=38.45	Pass		
	847.5		1	0	18.37	-3.00	13.22	<=38.45	Pass	
				7	18.41	-3.00	13.26	<=38.45	Pass	
14				18.44	-3.00	13.29	<=38.45	Pass		
0				18.42	-3.00	13.27	<=38.45	Pass		
8			4	18.45	-3.00	13.30	<=38.45	Pass		
			7	18.44	-3.00	13.29	<=38.45	Pass		
			15	18.41	-3.00	13.26	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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### 1.3 B5\_5MHz\_ERP

#### 1.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	826.5	1	0	23.18	-3.00	18.03	<=38.45	Pass		
			13	23.20	-3.00	18.05	<=38.45	Pass		
			24	23.20	-3.00	18.05	<=38.45	Pass		
		12	0	22.13	-3.00	16.98	<=38.45	Pass		
			6	22.16	-3.00	17.01	<=38.45	Pass		
			13	22.17	-3.00	17.02	<=38.45	Pass		
		25	0	22.19	-3.00	17.04	<=38.45	Pass		
		836.5	1	0	23.15	-3.00	18.00	<=38.45	Pass	
				13	23.24	-3.00	18.09	<=38.45	Pass	
	24			23.25	-3.00	18.10	<=38.45	Pass		
	12		0	22.17	-3.00	17.02	<=38.45	Pass		
			6	22.19	-3.00	17.04	<=38.45	Pass		
			13	22.21	-3.00	17.06	<=38.45	Pass		
	25		0	22.19	-3.00	17.04	<=38.45	Pass		
	846.5		1	0	21.58	-3.00	16.43	<=38.45	Pass	
				13	21.57	-3.00	16.42	<=38.45	Pass	
		24		21.57	-3.00	16.42	<=38.45	Pass		
		12	0	21.56	-3.00	16.41	<=38.45	Pass		
			6	21.56	-3.00	16.41	<=38.45	Pass		
			13	21.57	-3.00	16.42	<=38.45	Pass		
		25	0	21.57	-3.00	16.42	<=38.45	Pass		
		16QAM	826.5	1	0	22.24	-3.00	17.09	<=38.45	Pass
					13	22.23	-3.00	17.08	<=38.45	Pass
	24				22.23	-3.00	17.08	<=38.45	Pass	
12	0			21.19	-3.00	16.04	<=38.45	Pass		
	6			21.21	-3.00	16.06	<=38.45	Pass		
	13			21.23	-3.00	16.08	<=38.45	Pass		
25	0			21.23	-3.00	16.08	<=38.45	Pass		
836.5	1			0	22.41	-3.00	17.26	<=38.45	Pass	
				13	22.51	-3.00	17.36	<=38.45	Pass	
			24	22.50	-3.00	17.35	<=38.45	Pass		
	12		0	21.22	-3.00	16.07	<=38.45	Pass		
			6	21.22	-3.00	16.07	<=38.45	Pass		
			13	21.27	-3.00	16.12	<=38.45	Pass		
	25		0	21.20	-3.00	16.05	<=38.45	Pass		
	846.5		1	0	21.57	-3.00	16.42	<=38.45	Pass	
				13	21.57	-3.00	16.42	<=38.45	Pass	
24				21.56	-3.00	16.41	<=38.45	Pass		
12			0	21.56	-3.00	16.41	<=38.45	Pass		
			6	21.57	-3.00	16.42	<=38.45	Pass		
			13	21.56	-3.00	16.41	<=38.45	Pass		



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		25	0	21.57	-3.00	16.42	<=38.45	Pass
64QAM	826.5	1	0	21.37	-3.00	16.22	<=38.45	Pass
			13	21.41	-3.00	16.26	<=38.45	Pass
			24	21.39	-3.00	16.24	<=38.45	Pass
			0	20.29	-3.00	15.14	<=38.45	Pass
		12	6	20.31	-3.00	15.16	<=38.45	Pass
			13	20.33	-3.00	15.18	<=38.45	Pass
	25	0	20.19	-3.00	15.04	<=38.45	Pass	
	836.5	1	0	21.30	-3.00	16.15	<=38.45	Pass
			13	21.40	-3.00	16.25	<=38.45	Pass
			24	21.40	-3.00	16.25	<=38.45	Pass
		12	0	20.21	-3.00	15.06	<=38.45	Pass
			6	20.21	-3.00	15.06	<=38.45	Pass
			13	20.23	-3.00	15.08	<=38.45	Pass
	25	0	20.24	-3.00	15.09	<=38.45	Pass	
	846.5	1	0	21.56	-3.00	16.41	<=38.45	Pass
			13	21.57	-3.00	16.42	<=38.45	Pass
			24	21.56	-3.00	16.41	<=38.45	Pass
		12	0	21.56	-3.00	16.41	<=38.45	Pass
6			21.57	-3.00	16.42	<=38.45	Pass	
13			21.55	-3.00	16.40	<=38.45	Pass	
25	0	21.55	-3.00	16.40	<=38.45	Pass		
256QAM	826.5	1	0	18.21	-3.00	13.06	<=38.45	Pass
			13	18.19	-3.00	13.04	<=38.45	Pass
			24	18.21	-3.00	13.06	<=38.45	Pass
		12	0	18.16	-3.00	13.01	<=38.45	Pass
			6	18.19	-3.00	13.04	<=38.45	Pass
			13	18.20	-3.00	13.05	<=38.45	Pass
	25	0	18.21	-3.00	13.06	<=38.45	Pass	
	836.5	1	0	18.32	-3.00	13.17	<=38.45	Pass
			13	18.42	-3.00	13.27	<=38.45	Pass
			24	18.45	-3.00	13.30	<=38.45	Pass
		12	0	18.23	-3.00	13.08	<=38.45	Pass
			6	18.22	-3.00	13.07	<=38.45	Pass
			13	18.27	-3.00	13.12	<=38.45	Pass
	25	0	18.19	-3.00	13.04	<=38.45	Pass	
	846.5	1	0	18.41	-3.00	13.26	<=38.45	Pass
			13	18.39	-3.00	13.24	<=38.45	Pass
			24	18.45	-3.00	13.30	<=38.45	Pass
		12	0	18.36	-3.00	13.21	<=38.45	Pass
6			18.37	-3.00	13.22	<=38.45	Pass	
13			18.41	-3.00	13.26	<=38.45	Pass	
25	0	18.39	-3.00	13.24	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.4 B5\_10MHz\_ERP

1.4.1 Test Result

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	23.10	-3.00	17.95	<=38.45	Pass		
			25	23.09	-3.00	17.94	<=38.45	Pass		
			49	23.09	-3.00	17.94	<=38.45	Pass		
		25	0	22.18	-3.00	17.03	<=38.45	Pass		
			13	22.17	-3.00	17.02	<=38.45	Pass		
			25	22.16	-3.00	17.01	<=38.45	Pass		
		50	0	22.18	-3.00	17.03	<=38.45	Pass		
		836.5	1	0	23.08	-3.00	17.93	<=38.45	Pass	
				25	23.19	-3.00	18.04	<=38.45	Pass	
	49			23.20	-3.00	18.05	<=38.45	Pass		
	25		0	22.12	-3.00	16.97	<=38.45	Pass		
			13	22.18	-3.00	17.03	<=38.45	Pass		
			25	22.21	-3.00	17.06	<=38.45	Pass		
	50		0	22.18	-3.00	17.03	<=38.45	Pass		
	844		1	0	21.09	-3.00	15.94	<=38.45	Pass	
				25	21.09	-3.00	15.94	<=38.45	Pass	
		49		21.09	-3.00	15.94	<=38.45	Pass		
		25	0	21.08	-3.00	15.93	<=38.45	Pass		
			13	21.09	-3.00	15.94	<=38.45	Pass		
			25	21.09	-3.00	15.94	<=38.45	Pass		
		50	0	21.09	-3.00	15.94	<=38.45	Pass		
		16QAM	829	1	0	22.33	-3.00	17.18	<=38.45	Pass
					25	22.34	-3.00	17.19	<=38.45	Pass
	49				22.33	-3.00	17.18	<=38.45	Pass	
25	0			21.21	-3.00	16.06	<=38.45	Pass		
	13			21.20	-3.00	16.05	<=38.45	Pass		
	25			21.19	-3.00	16.04	<=38.45	Pass		
50	0			21.19	-3.00	16.04	<=38.45	Pass		
836.5	1			0	22.33	-3.00	17.18	<=38.45	Pass	
				25	22.42	-3.00	17.27	<=38.45	Pass	
			49	22.43	-3.00	17.28	<=38.45	Pass		
	25		0	21.16	-3.00	16.01	<=38.45	Pass		
			13	21.20	-3.00	16.05	<=38.45	Pass		
			25	21.23	-3.00	16.08	<=38.45	Pass		
	50		0	21.18	-3.00	16.03	<=38.45	Pass		
	844		1	0	21.09	-3.00	15.94	<=38.45	Pass	
				25	21.09	-3.00	15.94	<=38.45	Pass	
49				21.09	-3.00	15.94	<=38.45	Pass		
25			0	21.09	-3.00	15.94	<=38.45	Pass		
			13	21.10	-3.00	15.95	<=38.45	Pass		
			25	21.09	-3.00	15.94	<=38.45	Pass		



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		50	0	21.09	-3.00	15.94	<=38.45	Pass	
64QAM	829	1	0	21.23	-3.00	16.08	<=38.45	Pass	
			25	21.25	-3.00	16.10	<=38.45	Pass	
			49	21.20	-3.00	16.05	<=38.45	Pass	
			0	20.27	-3.00	15.12	<=38.45	Pass	
		25	13	20.26	-3.00	15.11	<=38.45	Pass	
			25	20.27	-3.00	15.12	<=38.45	Pass	
	50		20.21	-3.00	15.06	<=38.45	Pass		
	836.5	1	0	21.22	-3.00	16.07	<=38.45	Pass	
			25	21.31	-3.00	16.16	<=38.45	Pass	
			49	21.30	-3.00	16.15	<=38.45	Pass	
			0	20.23	-3.00	15.08	<=38.45	Pass	
		25	13	20.28	-3.00	15.13	<=38.45	Pass	
			25	20.30	-3.00	15.15	<=38.45	Pass	
			50	20.19	-3.00	15.04	<=38.45	Pass	
		844	1	0	21.09	-3.00	15.94	<=38.45	Pass
				25	21.10	-3.00	15.95	<=38.45	Pass
				49	21.09	-3.00	15.94	<=38.45	Pass
			25	0	21.08	-3.00	15.93	<=38.45	Pass
				13	21.09	-3.00	15.94	<=38.45	Pass
	25			21.11	-3.00	15.96	<=38.45	Pass	
	50	21.08	-3.00	15.93	<=38.45	Pass			
	256QAM	829	1	0	17.97	-3.00	12.82	<=38.45	Pass
				25	17.99	-3.00	12.84	<=38.45	Pass
				49	17.94	-3.00	12.79	<=38.45	Pass
25			0	18.21	-3.00	13.06	<=38.45	Pass	
			13	18.20	-3.00	13.05	<=38.45	Pass	
			25	18.21	-3.00	13.06	<=38.45	Pass	
50		18.17	-3.00	13.02	<=38.45	Pass			
836.5		1	0	17.97	-3.00	12.82	<=38.45	Pass	
			25	18.05	-3.00	12.90	<=38.45	Pass	
			49	18.06	-3.00	12.91	<=38.45	Pass	
		25	0	18.18	-3.00	13.03	<=38.45	Pass	
			13	18.23	-3.00	13.08	<=38.45	Pass	
			25	18.27	-3.00	13.12	<=38.45	Pass	
		50	18.18	-3.00	13.03	<=38.45	Pass		
		844	1	0	18.43	-3.00	13.28	<=38.45	Pass
				25	18.40	-3.00	13.25	<=38.45	Pass
49				18.52	-3.00	13.37	<=38.45	Pass	
25			0	18.41	-3.00	13.26	<=38.45	Pass	
			13	18.43	-3.00	13.28	<=38.45	Pass	
			25	18.44	-3.00	13.29	<=38.45	Pass	
50		18.36	-3.00	13.21	<=38.45	Pass			

Note1: ERP=Conducted Power+Antenna Gain-2.15



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## 2. Frequency Stability

### 2.1 B5\_1.4MHz

#### 2.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	824.7	6	0	20	3.4	-7.095	-0.0086	-2.5 to 2.5	Pass	
					3.8	-2.675	-0.0032	-2.5 to 2.5	Pass	
					4.4	1.731	0.0021	-2.5 to 2.5	Pass	
				-30	3.8	-0.186	-0.0002	-2.5 to 2.5	Pass	
					-20	3.8	-0.744	-0.0009	-2.5 to 2.5	Pass
						3.8	-1.931	-0.0023	-2.5 to 2.5	Pass
				0	3.8	-3.834	-0.0046	-2.5 to 2.5	Pass	
					3.8	-1.245	-0.0015	-2.5 to 2.5	Pass	
				30	3.8	-1.817	-0.0022	-2.5 to 2.5	Pass	
				40	3.8	-1.717	-0.0021	-2.5 to 2.5	Pass	
	50	3.8	2.789	0.0034	-2.5 to 2.5	Pass				
	836.5	6	0	20	3.4	-4.206	-0.0050	-2.5 to 2.5	Pass	
					3.8	-3.333	-0.0040	-2.5 to 2.5	Pass	
					4.4	-4.234	-0.0051	-2.5 to 2.5	Pass	
				-30	3.8	1.087	0.0013	-2.5 to 2.5	Pass	
					-20	3.8	-4.220	-0.0050	-2.5 to 2.5	Pass
						3.8	-3.762	-0.0045	-2.5 to 2.5	Pass
				0	3.8	-2.346	-0.0028	-2.5 to 2.5	Pass	
					3.8	-3.734	-0.0045	-2.5 to 2.5	Pass	
				30	3.8	-1.516	-0.0018	-2.5 to 2.5	Pass	
				40	3.8	-2.260	-0.0027	-2.5 to 2.5	Pass	
	50	3.8	-1.917	-0.0023	-2.5 to 2.5	Pass				
	848.3	6	0	20	3.4	-3.605	-0.0042	-2.5 to 2.5	Pass	
					3.8	0.386	0.0005	-2.5 to 2.5	Pass	
					4.4	-4.363	-0.0051	-2.5 to 2.5	Pass	
				-30	3.8	-3.004	-0.0035	-2.5 to 2.5	Pass	
					-20	3.8	-1.287	-0.0015	-2.5 to 2.5	Pass
						3.8	-1.616	-0.0019	-2.5 to 2.5	Pass
				0	3.8	-5.064	-0.0060	-2.5 to 2.5	Pass	
					3.8	-2.489	-0.0029	-2.5 to 2.5	Pass	
30				3.8	-2.003	-0.0024	-2.5 to 2.5	Pass		
40				3.8	-1.659	-0.0020	-2.5 to 2.5	Pass		
50	3.8	-4.749	-0.0056	-2.5 to 2.5	Pass					
16QAM	824.7	6	0	20	3.4	-0.043	-0.0001	-2.5 to 2.5	Pass	
					3.8	0.329	0.0004	-2.5 to 2.5	Pass	
					4.4	-2.232	-0.0027	-2.5 to 2.5	Pass	
				-30	3.8	-0.844	-0.0010	-2.5 to 2.5	Pass	
					3.8	-4.764	-0.0058	-2.5 to 2.5	Pass	
				-10	3.8	-0.386	-0.0005	-2.5 to 2.5	Pass	



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64QAM	836.5	6	0	0	3.8	-2.947	-0.0036	-2.5 to 2.5	Pass		
				10	3.8	-2.890	-0.0035	-2.5 to 2.5	Pass		
				30	3.8	-5.522	-0.0067	-2.5 to 2.5	Pass		
				40	3.8	-2.518	-0.0031	-2.5 to 2.5	Pass		
				50	3.8	1.087	0.0013	-2.5 to 2.5	Pass		
				20	3.4	-4.792	-0.0057	-2.5 to 2.5	Pass		
					3.8	-2.804	-0.0034	-2.5 to 2.5	Pass		
					4.4	-4.678	-0.0056	-2.5 to 2.5	Pass		
				-30	3.8	-5.293	-0.0063	-2.5 to 2.5	Pass		
				-20	3.8	-5.822	-0.0070	-2.5 to 2.5	Pass		
				-10	3.8	7.939	0.0095	-2.5 to 2.5	Pass		
				0	3.8	1.130	0.0014	-2.5 to 2.5	Pass		
				10	3.8	-0.758	-0.0009	-2.5 to 2.5	Pass		
				30	3.8	-5.021	-0.0060	-2.5 to 2.5	Pass		
	40	3.8	-1.216	-0.0015	-2.5 to 2.5	Pass					
	50	3.8	-3.505	-0.0042	-2.5 to 2.5	Pass					
	848.3	6	0	20	3.4	-1.531	-0.0018	-2.5 to 2.5	Pass		
					3.8	-2.403	-0.0028	-2.5 to 2.5	Pass		
					4.4	0.958	0.0011	-2.5 to 2.5	Pass		
				-30	3.8	-0.429	-0.0005	-2.5 to 2.5	Pass		
				-20	3.8	-1.917	-0.0023	-2.5 to 2.5	Pass		
				-10	3.8	-3.347	-0.0039	-2.5 to 2.5	Pass		
				0	3.8	-1.287	-0.0015	-2.5 to 2.5	Pass		
				10	3.8	-0.486	-0.0006	-2.5 to 2.5	Pass		
				30	3.8	-0.687	-0.0008	-2.5 to 2.5	Pass		
				40	3.8	-1.960	-0.0023	-2.5 to 2.5	Pass		
				50	3.8	-4.091	-0.0048	-2.5 to 2.5	Pass		
				824.7	6	0	20	3.4	-2.532	-0.0031	-2.5 to 2.5
3.8								-4.635	-0.0056	-2.5 to 2.5	Pass
4.4								1.230	0.0015	-2.5 to 2.5	Pass
-30	3.8	-2.761	-0.0033				-2.5 to 2.5	Pass			
-20	3.8	-2.618	-0.0032				-2.5 to 2.5	Pass			
-10	3.8	-3.119	-0.0038				-2.5 to 2.5	Pass			
0	3.8	-3.719	-0.0045				-2.5 to 2.5	Pass			
10	3.8	-0.429	-0.0005				-2.5 to 2.5	Pass			
30	3.8	-4.020	-0.0049				-2.5 to 2.5	Pass			
40	3.8	-3.505	-0.0043				-2.5 to 2.5	Pass			
50	3.8	-1.774	-0.0022				-2.5 to 2.5	Pass			
836.5	6	0	20				3.4	-4.163	-0.0050	-2.5 to 2.5	Pass
							3.8	-4.849	-0.0058	-2.5 to 2.5	Pass
							4.4	-3.233	-0.0039	-2.5 to 2.5	Pass
			-30	3.8	-1.917	-0.0023	-2.5 to 2.5	Pass			
			-20	3.8	1.502	0.0018	-2.5 to 2.5	Pass			
			-10	3.8	-2.389	-0.0029	-2.5 to 2.5	Pass			
			0	3.8	-2.604	-0.0031	-2.5 to 2.5	Pass			
			10	3.8	-4.692	-0.0056	-2.5 to 2.5	Pass			
			30	3.8	-3.247	-0.0039	-2.5 to 2.5	Pass			
			40	3.8	-2.503	-0.0030	-2.5 to 2.5	Pass			
			50	3.8	-2.804	-0.0034	-2.5 to 2.5	Pass			



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Wireless Laboratory Technical Services

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	848.3	6	0	20	3.4	0.701	0.0008	-2.5 to 2.5	Pass
					3.8	-4.621	-0.0054	-2.5 to 2.5	Pass
					4.4	-1.431	-0.0017	-2.5 to 2.5	Pass
				-30	3.8	-2.761	-0.0033	-2.5 to 2.5	Pass
					-20	3.8	0.415	0.0005	-2.5 to 2.5
				-10	3.8	-0.644	-0.0008	-2.5 to 2.5	Pass
					0	3.8	-3.562	-0.0042	-2.5 to 2.5
				10	3.8	-3.605	-0.0042	-2.5 to 2.5	Pass
				30	3.8	1.588	0.0019	-2.5 to 2.5	Pass
				40	3.8	0.172	0.0002	-2.5 to 2.5	Pass
50	3.8	-1.059	-0.0012	-2.5 to 2.5	Pass				
256QAM	824.7	6	0	20	3.4	-3.891	-0.0047	-2.5 to 2.5	Pass
					3.8	-2.375	-0.0029	-2.5 to 2.5	Pass
					4.4	-2.246	-0.0027	-2.5 to 2.5	Pass
				-30	3.8	-5.965	-0.0072	-2.5 to 2.5	Pass
					-20	3.8	-2.432	-0.0029	-2.5 to 2.5
				-10	3.8	-3.777	-0.0046	-2.5 to 2.5	Pass
					0	3.8	-0.100	-0.0001	-2.5 to 2.5
				10	3.8	-2.832	-0.0034	-2.5 to 2.5	Pass
				30	3.8	-1.817	-0.0022	-2.5 to 2.5	Pass
				40	3.8	0.601	0.0007	-2.5 to 2.5	Pass
	50	3.8	-2.532	-0.0031	-2.5 to 2.5	Pass			
	836.5	6	0	20	3.4	-4.106	-0.0049	-2.5 to 2.5	Pass
					3.8	-2.518	-0.0030	-2.5 to 2.5	Pass
					4.4	-5.507	-0.0066	-2.5 to 2.5	Pass
				-30	3.8	-1.631	-0.0019	-2.5 to 2.5	Pass
-20					3.8	-2.160	-0.0026	-2.5 to 2.5	Pass
848.3	6	0	-10	3.8	-1.903	-0.0023	-2.5 to 2.5	Pass	
				0	3.8	-0.701	-0.0008	-2.5 to 2.5	Pass
			10	3.8	-3.219	-0.0038	-2.5 to 2.5	Pass	
			30	3.8	-0.186	-0.0002	-2.5 to 2.5	Pass	
			40	3.8	-4.234	-0.0051	-2.5 to 2.5	Pass	
848.3	6	0	20	3.4	-2.561	-0.0030	-2.5 to 2.5	Pass	
				3.8	-0.930	-0.0011	-2.5 to 2.5	Pass	
				4.4	0.572	0.0007	-2.5 to 2.5	Pass	
			-30	3.8	-1.187	-0.0014	-2.5 to 2.5	Pass	
				-20	3.8	0.243	0.0003	-2.5 to 2.5	Pass
			-10	3.8	-1.116	-0.0013	-2.5 to 2.5	Pass	
				0	3.8	-2.303	-0.0027	-2.5 to 2.5	Pass
10	3.8	-2.761	-0.0033	-2.5 to 2.5	Pass				
30	3.8	-3.304	-0.0039	-2.5 to 2.5	Pass				
40	3.8	-0.072	-0.0001	-2.5 to 2.5	Pass				
50	3.8	-3.805	-0.0045	-2.5 to 2.5	Pass				



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2.2 B5\_3MHz

2.2.1 Test Result

Band: 5 / Bandwidth: 3MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	825.5	15	0	20	3.4	5.608	0.0068	-2.5 to 2.5	Pass			
					3.8	6.366	0.0077	-2.5 to 2.5	Pass			
					4.4	5.550	0.0067	-2.5 to 2.5	Pass			
				-30	3.8	7.739	0.0094	-2.5 to 2.5	Pass			
					-20	3.8	5.593	0.0068	-2.5 to 2.5	Pass		
						3.8	3.104	0.0038	-2.5 to 2.5	Pass		
				0	3.8	4.077	0.0049	-2.5 to 2.5	Pass			
					10	3.8	0.973	0.0012	-2.5 to 2.5	Pass		
				30	3.8	2.074	0.0025	-2.5 to 2.5	Pass			
					40	3.8	-0.501	-0.0006	-2.5 to 2.5	Pass		
				50	3.8	1.688	0.0020	-2.5 to 2.5	Pass			
				836.5	15	0	20	3.4	-5.536	-0.0066	-2.5 to 2.5	Pass
								3.8	-6.151	-0.0074	-2.5 to 2.5	Pass
								4.4	-0.958	-0.0011	-2.5 to 2.5	Pass
							-30	3.8	0.529	0.0006	-2.5 to 2.5	Pass
	-20	3.8	-0.215					-0.0003	-2.5 to 2.5	Pass		
		3.8	-2.518					-0.0030	-2.5 to 2.5	Pass		
	0	3.8	-2.232				-0.0027	-2.5 to 2.5	Pass			
		10	3.8				-2.561	-0.0031	-2.5 to 2.5	Pass		
	30	3.8	-0.286				-0.0003	-2.5 to 2.5	Pass			
		40	3.8				1.173	0.0014	-2.5 to 2.5	Pass		
	50	3.8	-5.708				-0.0068	-2.5 to 2.5	Pass			
	847.5	15	0				20	3.4	-1.774	-0.0021	-2.5 to 2.5	Pass
								3.8	-2.046	-0.0024	-2.5 to 2.5	Pass
								4.4	-2.618	-0.0031	-2.5 to 2.5	Pass
							-30	3.8	1.187	0.0014	-2.5 to 2.5	Pass
				-20	3.8	-5.908		-0.0070	-2.5 to 2.5	Pass		
					3.8	-0.057		-0.0001	-2.5 to 2.5	Pass		
				0	3.8	-2.933	-0.0035	-2.5 to 2.5	Pass			
					10	3.8	-4.377	-0.0052	-2.5 to 2.5	Pass		
30				3.8	0.157	0.0002	-2.5 to 2.5	Pass				
				40	3.8	-0.529	-0.0006	-2.5 to 2.5	Pass			
50				3.8	-4.349	-0.0051	-2.5 to 2.5	Pass				
16QAM				825.5	15	0	20	3.4	11.344	0.0137	-2.5 to 2.5	Pass
								3.8	5.121	0.0062	-2.5 to 2.5	Pass
								4.4	2.003	0.0024	-2.5 to 2.5	Pass
							-30	3.8	0.772	0.0009	-2.5 to 2.5	Pass
	-20	3.8	1.431					0.0017	-2.5 to 2.5	Pass		
		3.8	-0.429					-0.0005	-2.5 to 2.5	Pass		
	0	3.8	0.629				0.0008	-2.5 to 2.5	Pass			
		10	3.8				-1.445	-0.0018	-2.5 to 2.5	Pass		



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64QAM	836.5	15	0	30	3.8	1.645	0.0020	-2.5 to 2.5	Pass			
				40	3.8	-2.246	-0.0027	-2.5 to 2.5	Pass			
				50	3.8	-0.472	-0.0006	-2.5 to 2.5	Pass			
				20	3.4	-0.873	-0.0010	-2.5 to 2.5	Pass			
					3.8	1.073	0.0013	-2.5 to 2.5	Pass			
					4.4	0.458	0.0005	-2.5 to 2.5	Pass			
				-30	3.8	-3.419	-0.0041	-2.5 to 2.5	Pass			
				-20	3.8	0.901	0.0011	-2.5 to 2.5	Pass			
				-10	3.8	1.874	0.0022	-2.5 to 2.5	Pass			
				0	3.8	-2.017	-0.0024	-2.5 to 2.5	Pass			
				10	3.8	-0.472	-0.0006	-2.5 to 2.5	Pass			
				30	3.8	-1.345	-0.0016	-2.5 to 2.5	Pass			
				40	3.8	1.574	0.0019	-2.5 to 2.5	Pass			
				50	3.8	0.329	0.0004	-2.5 to 2.5	Pass			
				847.5	15	0	20	3.4	-1.516	-0.0018	-2.5 to 2.5	Pass
	3.8	-1.273	-0.0015					-2.5 to 2.5	Pass			
	4.4	-2.918	-0.0034					-2.5 to 2.5	Pass			
	-30	3.8	2.003				0.0024	-2.5 to 2.5	Pass			
	-20	3.8	-4.377				-0.0052	-2.5 to 2.5	Pass			
	-10	3.8	-3.204				-0.0038	-2.5 to 2.5	Pass			
	0	3.8	-3.033				-0.0036	-2.5 to 2.5	Pass			
	10	3.8	-2.089				-0.0025	-2.5 to 2.5	Pass			
	30	3.8	0.615				0.0007	-2.5 to 2.5	Pass			
	40	3.8	-2.475				-0.0029	-2.5 to 2.5	Pass			
	50	3.8	-3.633				-0.0043	-2.5 to 2.5	Pass			
	825.5	15	0				20	3.4	-2.003	-0.0024	-2.5 to 2.5	Pass
								3.8	-4.220	-0.0051	-2.5 to 2.5	Pass
								4.4	-3.834	-0.0046	-2.5 to 2.5	Pass
							-30	3.8	-4.134	-0.0050	-2.5 to 2.5	Pass
				-20	3.8	-1.774	-0.0021	-2.5 to 2.5	Pass			
-10				3.8	-3.648	-0.0044	-2.5 to 2.5	Pass				
0				3.8	-2.546	-0.0031	-2.5 to 2.5	Pass				
10				3.8	-3.090	-0.0037	-2.5 to 2.5	Pass				
30				3.8	-3.262	-0.0040	-2.5 to 2.5	Pass				
40				3.8	-2.275	-0.0028	-2.5 to 2.5	Pass				
50				3.8	-4.377	-0.0053	-2.5 to 2.5	Pass				
836.5				15	0	20	3.4	-0.858	-0.0010	-2.5 to 2.5	Pass	
							3.8	-4.692	-0.0056	-2.5 to 2.5	Pass	
							4.4	-5.450	-0.0065	-2.5 to 2.5	Pass	
						-30	3.8	-4.506	-0.0054	-2.5 to 2.5	Pass	
	-20	3.8	-1.574			-0.0019	-2.5 to 2.5	Pass				
	-10	3.8	-1.645			-0.0020	-2.5 to 2.5	Pass				
	0	3.8	-3.619			-0.0043	-2.5 to 2.5	Pass				
	10	3.8	-5.536			-0.0066	-2.5 to 2.5	Pass				
	30	3.8	-2.589			-0.0031	-2.5 to 2.5	Pass				
	40	3.8	-3.977			-0.0048	-2.5 to 2.5	Pass				
	50	3.8	-5.264			-0.0063	-2.5 to 2.5	Pass				
	847.5	15	0			20	3.4	-0.429	-0.0005	-2.5 to 2.5	Pass	
							3.8	-2.117	-0.0025	-2.5 to 2.5	Pass	



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					4.4	1.130	0.0013	-2.5 to 2.5	Pass				
				-30	3.8	-5.550	-0.0065	-2.5 to 2.5	Pass				
				-20	3.8	-1.144	-0.0013	-2.5 to 2.5	Pass				
				-10	3.8	0.529	0.0006	-2.5 to 2.5	Pass				
				0	3.8	-0.343	-0.0004	-2.5 to 2.5	Pass				
				10	3.8	-1.273	-0.0015	-2.5 to 2.5	Pass				
				30	3.8	0.172	0.0002	-2.5 to 2.5	Pass				
				40	3.8	-2.761	-0.0033	-2.5 to 2.5	Pass				
				50	3.8	-2.732	-0.0032	-2.5 to 2.5	Pass				
256QAM	825.5	15	0	20	3.4	-4.106	-0.0050	-2.5 to 2.5	Pass				
					3.8	-0.687	-0.0008	-2.5 to 2.5	Pass				
					4.4	-3.018	-0.0037	-2.5 to 2.5	Pass				
								-30	3.8	-1.431	-0.0017	-2.5 to 2.5	Pass
								-20	3.8	-2.732	-0.0033	-2.5 to 2.5	Pass
								-10	3.8	-3.262	-0.0040	-2.5 to 2.5	Pass
								0	3.8	-5.221	-0.0063	-2.5 to 2.5	Pass
								10	3.8	-3.176	-0.0038	-2.5 to 2.5	Pass
								30	3.8	-6.952	-0.0084	-2.5 to 2.5	Pass
								40	3.8	-3.719	-0.0045	-2.5 to 2.5	Pass
								50	3.8	-4.721	-0.0057	-2.5 to 2.5	Pass
					836.5	15	0	20	3.4	-4.363	-0.0052	-2.5 to 2.5	Pass
	3.8	1.273	0.0015	-2.5 to 2.5					Pass				
	4.4	-3.133	-0.0037	-2.5 to 2.5					Pass				
								-30	3.8	-4.549	-0.0054	-2.5 to 2.5	Pass
								-20	3.8	-5.622	-0.0067	-2.5 to 2.5	Pass
								-10	3.8	-5.565	-0.0067	-2.5 to 2.5	Pass
								0	3.8	-2.260	-0.0027	-2.5 to 2.5	Pass
								10	3.8	-3.891	-0.0047	-2.5 to 2.5	Pass
								30	3.8	-2.975	-0.0036	-2.5 to 2.5	Pass
								40	3.8	-1.960	-0.0023	-2.5 to 2.5	Pass
								50	3.8	-1.616	-0.0019	-2.5 to 2.5	Pass
		847.5	15	0				20	3.4	-2.618	-0.0031	-2.5 to 2.5	Pass
	3.8				-3.104	-0.0037	-2.5 to 2.5		Pass				
4.4	-2.131				-0.0025	-2.5 to 2.5	Pass						
							-30	3.8	-4.234	-0.0050	-2.5 to 2.5	Pass	
							-20	3.8	-2.518	-0.0030	-2.5 to 2.5	Pass	
							-10	3.8	-5.193	-0.0061	-2.5 to 2.5	Pass	
							0	3.8	-0.744	-0.0009	-2.5 to 2.5	Pass	
							10	3.8	-3.977	-0.0047	-2.5 to 2.5	Pass	
							30	3.8	-4.020	-0.0047	-2.5 to 2.5	Pass	
							40	3.8	-6.709	-0.0079	-2.5 to 2.5	Pass	
							50	3.8	-0.472	-0.0006	-2.5 to 2.5	Pass	



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Report No.: SEWM2311000466RG01

Rev.: 01

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### 2.3 B5\_5MHz

#### 2.3.1 Test Result

Band: 5 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	826.5	25	0	20	3.4	0.858	0.0010	-2.5 to 2.5	Pass
					3.8	0.358	0.0004	-2.5 to 2.5	Pass
					4.4	-0.715	-0.0009	-2.5 to 2.5	Pass
				-30	3.8	-0.186	-0.0002	-2.5 to 2.5	Pass
				-20	3.8	-1.874	-0.0023	-2.5 to 2.5	Pass
				-10	3.8	1.831	0.0022	-2.5 to 2.5	Pass
				0	3.8	1.545	0.0019	-2.5 to 2.5	Pass
				10	3.8	0.029	0.0000	-2.5 to 2.5	Pass
				30	3.8	10.886	0.0132	-2.5 to 2.5	Pass
				40	3.8	0.887	0.0011	-2.5 to 2.5	Pass
	50	3.8	-0.272	-0.0003	-2.5 to 2.5	Pass			
	836.5	25	0	20	3.4	-6.766	-0.0081	-2.5 to 2.5	Pass
					3.8	-4.935	-0.0059	-2.5 to 2.5	Pass
					4.4	0.873	0.0010	-2.5 to 2.5	Pass
				-30	3.8	-1.030	-0.0012	-2.5 to 2.5	Pass
				-20	3.8	-0.687	-0.0008	-2.5 to 2.5	Pass
				-10	3.8	-2.546	-0.0030	-2.5 to 2.5	Pass
				0	3.8	-3.119	-0.0037	-2.5 to 2.5	Pass
				10	3.8	1.831	0.0022	-2.5 to 2.5	Pass
				30	3.8	-2.446	-0.0029	-2.5 to 2.5	Pass
				40	3.8	-1.802	-0.0022	-2.5 to 2.5	Pass
	50	3.8	-1.073	-0.0013	-2.5 to 2.5	Pass			
	846.5	25	0	20	3.4	-1.559	-0.0018	-2.5 to 2.5	Pass
					3.8	-1.502	-0.0018	-2.5 to 2.5	Pass
					4.4	-6.781	-0.0080	-2.5 to 2.5	Pass
				-30	3.8	-3.862	-0.0046	-2.5 to 2.5	Pass
				-20	3.8	-4.478	-0.0053	-2.5 to 2.5	Pass
				-10	3.8	-2.389	-0.0028	-2.5 to 2.5	Pass
				0	3.8	-1.645	-0.0019	-2.5 to 2.5	Pass
				10	3.8	-3.276	-0.0039	-2.5 to 2.5	Pass
30				3.8	-4.020	-0.0047	-2.5 to 2.5	Pass	
40				3.8	-6.180	-0.0073	-2.5 to 2.5	Pass	
50	3.8	0.772	0.0009	-2.5 to 2.5	Pass				
16QAM	826.5	25	0	20	3.4	-3.090	-0.0037	-2.5 to 2.5	Pass
					3.8	0.744	0.0009	-2.5 to 2.5	Pass
					4.4	-1.359	-0.0016	-2.5 to 2.5	Pass
				-30	3.8	-1.173	-0.0014	-2.5 to 2.5	Pass
				-20	3.8	-0.257	-0.0003	-2.5 to 2.5	Pass
				-10	3.8	-0.057	-0.0001	-2.5 to 2.5	Pass
				0	3.8	2.260	0.0027	-2.5 to 2.5	Pass
				10	3.8	0.587	0.0007	-2.5 to 2.5	Pass



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64QAM	836.5	25	0	30	3.8	-1.473	-0.0018	-2.5 to 2.5	Pass			
				40	3.8	-5.250	-0.0064	-2.5 to 2.5	Pass			
				50	3.8	1.101	0.0013	-2.5 to 2.5	Pass			
				20	3.4	-4.292	-0.0051	-2.5 to 2.5	Pass			
					3.8	-1.702	-0.0020	-2.5 to 2.5	Pass			
					4.4	-2.360	-0.0028	-2.5 to 2.5	Pass			
				-30	3.8	-0.701	-0.0008	-2.5 to 2.5	Pass			
				-20	3.8	-2.990	-0.0036	-2.5 to 2.5	Pass			
				-10	3.8	-4.020	-0.0048	-2.5 to 2.5	Pass			
				0	3.8	-0.443	-0.0005	-2.5 to 2.5	Pass			
				10	3.8	-4.292	-0.0051	-2.5 to 2.5	Pass			
				30	3.8	-5.422	-0.0065	-2.5 to 2.5	Pass			
				40	3.8	0.172	0.0002	-2.5 to 2.5	Pass			
				50	3.8	-4.649	-0.0056	-2.5 to 2.5	Pass			
				846.5	25	0	20	3.4	-5.307	-0.0063	-2.5 to 2.5	Pass
	3.8	-4.048	-0.0048					-2.5 to 2.5	Pass			
	4.4	-1.702	-0.0020					-2.5 to 2.5	Pass			
	-30	3.8	-4.592				-0.0054	-2.5 to 2.5	Pass			
	-20	3.8	-1.473				-0.0017	-2.5 to 2.5	Pass			
	-10	3.8	-4.921				-0.0058	-2.5 to 2.5	Pass			
	0	3.8	-3.176				-0.0038	-2.5 to 2.5	Pass			
	10	3.8	-5.465				-0.0065	-2.5 to 2.5	Pass			
	30	3.8	-2.646				-0.0031	-2.5 to 2.5	Pass			
	40	3.8	-5.393				-0.0064	-2.5 to 2.5	Pass			
	50	3.8	-2.332				-0.0028	-2.5 to 2.5	Pass			
	826.5	25	0				20	3.4	-1.087	-0.0013	-2.5 to 2.5	Pass
								3.8	-2.346	-0.0028	-2.5 to 2.5	Pass
								4.4	0.572	0.0007	-2.5 to 2.5	Pass
							-30	3.8	-3.219	-0.0039	-2.5 to 2.5	Pass
				-20	3.8	-2.975	-0.0036	-2.5 to 2.5	Pass			
-10				3.8	-1.903	-0.0023	-2.5 to 2.5	Pass				
0				3.8	-1.760	-0.0021	-2.5 to 2.5	Pass				
10				3.8	-1.688	-0.0020	-2.5 to 2.5	Pass				
30				3.8	1.330	0.0016	-2.5 to 2.5	Pass				
40				3.8	1.202	0.0015	-2.5 to 2.5	Pass				
50				3.8	-0.014	0.0000	-2.5 to 2.5	Pass				
836.5				25	0	20	3.4	-0.858	-0.0010	-2.5 to 2.5	Pass	
							3.8	-1.016	-0.0012	-2.5 to 2.5	Pass	
							4.4	-3.490	-0.0042	-2.5 to 2.5	Pass	
						-30	3.8	-0.730	-0.0009	-2.5 to 2.5	Pass	
	-20	3.8	-1.330			-0.0016	-2.5 to 2.5	Pass				
	-10	3.8	-0.944			-0.0011	-2.5 to 2.5	Pass				
	0	3.8	0.672			0.0008	-2.5 to 2.5	Pass				
	10	3.8	-3.390			-0.0041	-2.5 to 2.5	Pass				
	30	3.8	-0.916			-0.0011	-2.5 to 2.5	Pass				
	40	3.8	-3.834			-0.0046	-2.5 to 2.5	Pass				
	50	3.8	-1.574			-0.0019	-2.5 to 2.5	Pass				
	846.5	25	0			20	3.4	-4.435	-0.0052	-2.5 to 2.5	Pass	
							3.8	-2.861	-0.0034	-2.5 to 2.5	Pass	



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					4.4	-4.306	-0.0051	-2.5 to 2.5	Pass				
				-30	3.8	-5.293	-0.0063	-2.5 to 2.5	Pass				
				-20	3.8	-4.764	-0.0056	-2.5 to 2.5	Pass				
				-10	3.8	-3.133	-0.0037	-2.5 to 2.5	Pass				
				0	3.8	-3.819	-0.0045	-2.5 to 2.5	Pass				
				10	3.8	-3.834	-0.0045	-2.5 to 2.5	Pass				
				30	3.8	-2.346	-0.0028	-2.5 to 2.5	Pass				
				40	3.8	-0.801	-0.0009	-2.5 to 2.5	Pass				
				50	3.8	-1.287	-0.0015	-2.5 to 2.5	Pass				
256QAM	826.5	25	0	20	3.4	-0.572	-0.0007	-2.5 to 2.5	Pass				
					3.8	1.473	0.0018	-2.5 to 2.5	Pass				
					4.4	-2.704	-0.0033	-2.5 to 2.5	Pass				
								-30	3.8	-1.931	-0.0023	-2.5 to 2.5	Pass
								-20	3.8	-3.548	-0.0043	-2.5 to 2.5	Pass
								-10	3.8	-0.615	-0.0007	-2.5 to 2.5	Pass
								0	3.8	-2.360	-0.0029	-2.5 to 2.5	Pass
								10	3.8	-1.030	-0.0012	-2.5 to 2.5	Pass
								30	3.8	-1.731	-0.0021	-2.5 to 2.5	Pass
					40	3.8	-4.406	-0.0053	-2.5 to 2.5	Pass			
					50	3.8	-1.731	-0.0021	-2.5 to 2.5	Pass			
		836.5	25	0	20	3.4	-0.157	-0.0002	-2.5 to 2.5	Pass			
	3.8					-1.788	-0.0021	-2.5 to 2.5	Pass				
	4.4					-3.419	-0.0041	-2.5 to 2.5	Pass				
								-30	3.8	-0.129	-0.0002	-2.5 to 2.5	Pass
								-20	3.8	-1.459	-0.0017	-2.5 to 2.5	Pass
								-10	3.8	-2.990	-0.0036	-2.5 to 2.5	Pass
								0	3.8	-2.189	-0.0026	-2.5 to 2.5	Pass
								10	3.8	-3.119	-0.0037	-2.5 to 2.5	Pass
								30	3.8	-0.157	-0.0002	-2.5 to 2.5	Pass
					40	3.8	-4.706	-0.0056	-2.5 to 2.5	Pass			
					50	3.8	-3.619	-0.0043	-2.5 to 2.5	Pass			
		846.5	25	0	20	3.4	-0.615	-0.0007	-2.5 to 2.5	Pass			
	3.8					-2.117	-0.0025	-2.5 to 2.5	Pass				
	4.4					-3.991	-0.0047	-2.5 to 2.5	Pass				
								-30	3.8	-1.502	-0.0018	-2.5 to 2.5	Pass
								-20	3.8	-4.807	-0.0057	-2.5 to 2.5	Pass
							-10	3.8	-1.731	-0.0020	-2.5 to 2.5	Pass	
							0	3.8	-3.533	-0.0042	-2.5 to 2.5	Pass	
							10	3.8	-4.563	-0.0054	-2.5 to 2.5	Pass	
							30	3.8	-2.017	-0.0024	-2.5 to 2.5	Pass	
				40	3.8	-3.948	-0.0047	-2.5 to 2.5	Pass				
				50	3.8	-2.046	-0.0024	-2.5 to 2.5	Pass				



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2.4 B5\_10MHz

2.4.1 Test Result

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	3.4	-2.389	-0.0029	-2.5 to 2.5	Pass	
					3.8	-1.087	-0.0013	-2.5 to 2.5	Pass	
					4.4	-3.018	-0.0036	-2.5 to 2.5	Pass	
				-30	3.8	-2.031	-0.0024	-2.5 to 2.5	Pass	
					-20	3.8	-0.830	-0.0010	-2.5 to 2.5	Pass
						3.8	-1.702	-0.0021	-2.5 to 2.5	Pass
				0	3.8	-0.558	-0.0007	-2.5 to 2.5	Pass	
					10	3.8	0.300	0.0004	-2.5 to 2.5	Pass
				30	3.8	-0.057	-0.0001	-2.5 to 2.5	Pass	
					40	3.8	-0.086	-0.0001	-2.5 to 2.5	Pass
				50	3.8	1.388	0.0017	-2.5 to 2.5	Pass	
				836.5	50	0	20	3.4	-6.666	-0.0080
	3.8	-2.174	-0.0026					-2.5 to 2.5	Pass	
	4.4	-2.832	-0.0034					-2.5 to 2.5	Pass	
	-30	3.8	-2.832				-0.0034	-2.5 to 2.5	Pass	
		-20	3.8				-3.676	-0.0044	-2.5 to 2.5	Pass
			3.8				-1.531	-0.0018	-2.5 to 2.5	Pass
	0	3.8	-0.873				-0.0010	-2.5 to 2.5	Pass	
		10	3.8				-2.460	-0.0029	-2.5 to 2.5	Pass
	30	3.8	-2.561				-0.0031	-2.5 to 2.5	Pass	
		40	3.8				-1.445	-0.0017	-2.5 to 2.5	Pass
	50	3.8	-2.418				-0.0029	-2.5 to 2.5	Pass	
	844	50	0				20	3.4	-0.958	-0.0011
				3.8	-2.246	-0.0027		-2.5 to 2.5	Pass	
				4.4	-2.160	-0.0026		-2.5 to 2.5	Pass	
				-30	3.8	-1.359	-0.0016	-2.5 to 2.5	Pass	
					-20	3.8	-2.761	-0.0033	-2.5 to 2.5	Pass
						3.8	0.873	0.0010	-2.5 to 2.5	Pass
				0	3.8	-2.589	-0.0031	-2.5 to 2.5	Pass	
					10	3.8	-1.001	-0.0012	-2.5 to 2.5	Pass
30				3.8	-2.046	-0.0024	-2.5 to 2.5	Pass		
				40	3.8	-2.890	-0.0034	-2.5 to 2.5	Pass	
50				3.8	-3.576	-0.0042	-2.5 to 2.5	Pass		
16QAM				829	50	0	20	3.4	-2.947	-0.0036
	3.8	0.830	0.0010					-2.5 to 2.5	Pass	
	4.4	-0.873	-0.0011					-2.5 to 2.5	Pass	
	-30	3.8	-0.386				-0.0005	-2.5 to 2.5	Pass	
		-20	3.8				-1.931	-0.0023	-2.5 to 2.5	Pass
			3.8				-1.345	-0.0016	-2.5 to 2.5	Pass
	0	3.8	-4.106				-0.0050	-2.5 to 2.5	Pass	
		10	3.8				-1.817	-0.0022	-2.5 to 2.5	Pass



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64QAM	836.5	50	0	30	3.8	-2.346	-0.0028	-2.5 to 2.5	Pass			
				40	3.8	-2.818	-0.0034	-2.5 to 2.5	Pass			
				50	3.8	-2.217	-0.0027	-2.5 to 2.5	Pass			
				20	3.4	-4.263	-0.0051	-2.5 to 2.5	Pass			
					3.8	-1.631	-0.0019	-2.5 to 2.5	Pass			
					4.4	-2.418	-0.0029	-2.5 to 2.5	Pass			
				-30	3.8	-2.432	-0.0029	-2.5 to 2.5	Pass			
				-20	3.8	-0.243	-0.0003	-2.5 to 2.5	Pass			
				-10	3.8	-4.392	-0.0053	-2.5 to 2.5	Pass			
				0	3.8	-1.016	-0.0012	-2.5 to 2.5	Pass			
				10	3.8	0.401	0.0005	-2.5 to 2.5	Pass			
				30	3.8	-2.060	-0.0025	-2.5 to 2.5	Pass			
				40	3.8	-0.758	-0.0009	-2.5 to 2.5	Pass			
				50	3.8	-2.146	-0.0026	-2.5 to 2.5	Pass			
	844	50	0	20	3.4	-2.375	-0.0028	-2.5 to 2.5	Pass			
					3.8	-2.446	-0.0029	-2.5 to 2.5	Pass			
					4.4	-2.704	-0.0032	-2.5 to 2.5	Pass			
				-30	3.8	-2.332	-0.0028	-2.5 to 2.5	Pass			
				-20	3.8	-3.476	-0.0041	-2.5 to 2.5	Pass			
				-10	3.8	-1.702	-0.0020	-2.5 to 2.5	Pass			
				0	3.8	-0.873	-0.0010	-2.5 to 2.5	Pass			
				10	3.8	-2.518	-0.0030	-2.5 to 2.5	Pass			
				30	3.8	-1.674	-0.0020	-2.5 to 2.5	Pass			
				40	3.8	-0.887	-0.0011	-2.5 to 2.5	Pass			
				50	3.8	-0.615	-0.0007	-2.5 to 2.5	Pass			
				829	50	0	20	3.4	-0.687	-0.0008	-2.5 to 2.5	Pass
								3.8	-1.116	-0.0013	-2.5 to 2.5	Pass
								4.4	-2.146	-0.0026	-2.5 to 2.5	Pass
-30	3.8	-0.916	-0.0011				-2.5 to 2.5	Pass				
-20	3.8	-0.072	-0.0001				-2.5 to 2.5	Pass				
-10	3.8	-2.103	-0.0025				-2.5 to 2.5	Pass				
0	3.8	0.329	0.0004				-2.5 to 2.5	Pass				
10	3.8	-1.488	-0.0018				-2.5 to 2.5	Pass				
30	3.8	-1.874	-0.0023				-2.5 to 2.5	Pass				
40	3.8	-3.204	-0.0039				-2.5 to 2.5	Pass				
50	3.8	0.973	0.0012				-2.5 to 2.5	Pass				
836.5	50	0	20				3.4	-0.744	-0.0009	-2.5 to 2.5	Pass	
							3.8	-4.635	-0.0055	-2.5 to 2.5	Pass	
							4.4	-1.216	-0.0015	-2.5 to 2.5	Pass	
			-30	3.8	-1.073	-0.0013	-2.5 to 2.5	Pass				
			-20	3.8	-0.300	-0.0004	-2.5 to 2.5	Pass				
			-10	3.8	-4.220	-0.0050	-2.5 to 2.5	Pass				
			0	3.8	-5.107	-0.0061	-2.5 to 2.5	Pass				
			10	3.8	-5.679	-0.0068	-2.5 to 2.5	Pass				
			30	3.8	-4.835	-0.0058	-2.5 to 2.5	Pass				
			40	3.8	-2.289	-0.0027	-2.5 to 2.5	Pass				
			50	3.8	-1.745	-0.0021	-2.5 to 2.5	Pass				
			844	50	0	20	3.4	-1.974	-0.0023	-2.5 to 2.5	Pass	
							3.8	0.014	0.0000	-2.5 to 2.5	Pass	



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				4.4	0.186	0.0002	-2.5 to 2.5	Pass					
				-30	3.8	-1.202	-0.0014	Pass					
				-20	3.8	0.873	0.0010	Pass					
				-10	3.8	-2.732	-0.0032	Pass					
				0	3.8	-2.432	-0.0029	Pass					
				10	3.8	-2.689	-0.0032	Pass					
				30	3.8	-1.402	-0.0017	Pass					
				40	3.8	-2.403	-0.0028	Pass					
				50	3.8	-5.722	-0.0068	Pass					
256QAM	829	50	0	20	3.4	-2.546	-0.0031	-2.5 to 2.5	Pass				
					3.8	-0.029	0.0000	-2.5 to 2.5	Pass				
					4.4	-3.276	-0.0040	-2.5 to 2.5	Pass				
								-30	3.8	-0.057	-0.0001	-2.5 to 2.5	Pass
								-20	3.8	-3.047	-0.0037	-2.5 to 2.5	Pass
								-10	3.8	-0.572	-0.0007	-2.5 to 2.5	Pass
								0	3.8	-0.930	-0.0011	-2.5 to 2.5	Pass
								10	3.8	-1.445	-0.0017	-2.5 to 2.5	Pass
								30	3.8	1.402	0.0017	-2.5 to 2.5	Pass
								40	3.8	-2.518	-0.0030	-2.5 to 2.5	Pass
								50	3.8	-0.629	-0.0008	-2.5 to 2.5	Pass
					836.5	50	0	20	3.4	-3.133	-0.0037	-2.5 to 2.5	Pass
	3.8	-2.503	-0.0030	-2.5 to 2.5					Pass				
	4.4	-2.275	-0.0027	-2.5 to 2.5					Pass				
								-30	3.8	-2.747	-0.0033	-2.5 to 2.5	Pass
								-20	3.8	-4.206	-0.0050	-2.5 to 2.5	Pass
								-10	3.8	-3.290	-0.0039	-2.5 to 2.5	Pass
								0	3.8	-4.363	-0.0052	-2.5 to 2.5	Pass
								10	3.8	-3.462	-0.0041	-2.5 to 2.5	Pass
								30	3.8	-3.090	-0.0037	-2.5 to 2.5	Pass
								40	3.8	-2.818	-0.0034	-2.5 to 2.5	Pass
								50	3.8	-3.991	-0.0048	-2.5 to 2.5	Pass
		844	50	0				20	3.4	-4.020	-0.0048	-2.5 to 2.5	Pass
	3.8				-1.760	-0.0021	-2.5 to 2.5		Pass				
4.4	-2.761				-0.0033	-2.5 to 2.5	Pass						
							-30	3.8	-2.546	-0.0030	-2.5 to 2.5	Pass	
							-20	3.8	-3.390	-0.0040	-2.5 to 2.5	Pass	
							-10	3.8	-1.330	-0.0016	-2.5 to 2.5	Pass	
							0	3.8	-3.448	-0.0041	-2.5 to 2.5	Pass	
							10	3.8	-0.329	-0.0004	-2.5 to 2.5	Pass	
							30	3.8	-0.415	-0.0005	-2.5 to 2.5	Pass	
							40	3.8	-3.905	-0.0046	-2.5 to 2.5	Pass	
							50	3.8	-2.017	-0.0024	-2.5 to 2.5	Pass	



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### 3. 99% & 26dB Bandwidth

#### 3.1 Band5\_OBW

##### 3.1.1 Test Result

Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.120	/	Pass
		836.5	6	0	1.114	/	Pass
		848.3	6	0	1.119	/	Pass
	16QAM	824.7	6	0	1.105	/	Pass
		836.5	6	0	1.112	/	Pass
		848.3	6	0	1.110	/	Pass
	64QAM	824.7	6	0	1.119	/	Pass
		836.5	6	0	1.119	/	Pass
		848.3	6	0	1.118	/	Pass
	256QAM	824.7	6	0	1.107	/	Pass
		836.5	6	0	1.105	/	Pass
		848.3	6	0	1.109	/	Pass
3	QPSK	825.5	15	0	2.738	/	Pass
		836.5	15	0	2.726	/	Pass
		847.5	15	0	2.725	/	Pass
	16QAM	825.5	15	0	2.735	/	Pass
		836.5	15	0	2.724	/	Pass
		847.5	15	0	2.715	/	Pass
	64QAM	825.5	15	0	2.735	/	Pass
		836.5	15	0	2.722	/	Pass
		847.5	15	0	2.721	/	Pass
	256QAM	825.5	15	0	2.730	/	Pass
		836.5	15	0	2.731	/	Pass
		847.5	15	0	2.728	/	Pass
5	QPSK	826.5	25	0	4.536	/	Pass
		836.5	25	0	4.542	/	Pass
		846.5	25	0	4.536	/	Pass
	16QAM	826.5	25	0	4.557	/	Pass
		836.5	25	0	4.540	/	Pass
		846.5	25	0	4.550	/	Pass
	64QAM	826.5	25	0	4.546	/	Pass
		836.5	25	0	4.536	/	Pass
		846.5	25	0	4.547	/	Pass
	256QAM	826.5	25	0	4.560	/	Pass
		836.5	25	0	4.544	/	Pass
		846.5	25	0	4.538	/	Pass
10	QPSK	829	50	0	9.094	/	Pass
		836.5	50	0	9.042	/	Pass
		844	50	0	9.047	/	Pass



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	16QAM	829	50	0	9.074	/	Pass
		836.5	50	0	9.060	/	Pass
		844	50	0	9.051	/	Pass
	64QAM	829	50	0	9.078	/	Pass
		836.5	50	0	9.047	/	Pass
		844	50	0	9.054	/	Pass
	256QAM	829	50	0	9.050	/	Pass
		836.5	50	0	9.070	/	Pass
		844	50	0	9.060	/	Pass



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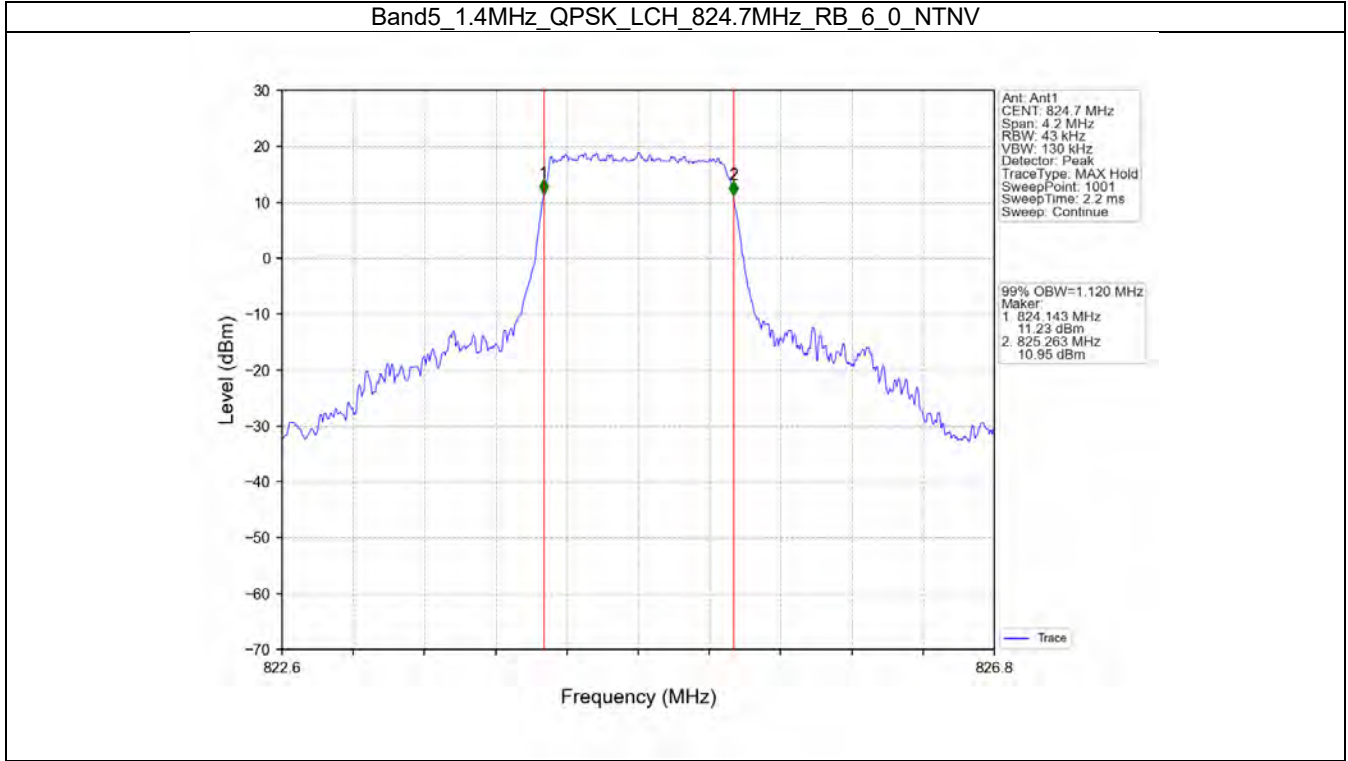
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3.1.2 Test Graph



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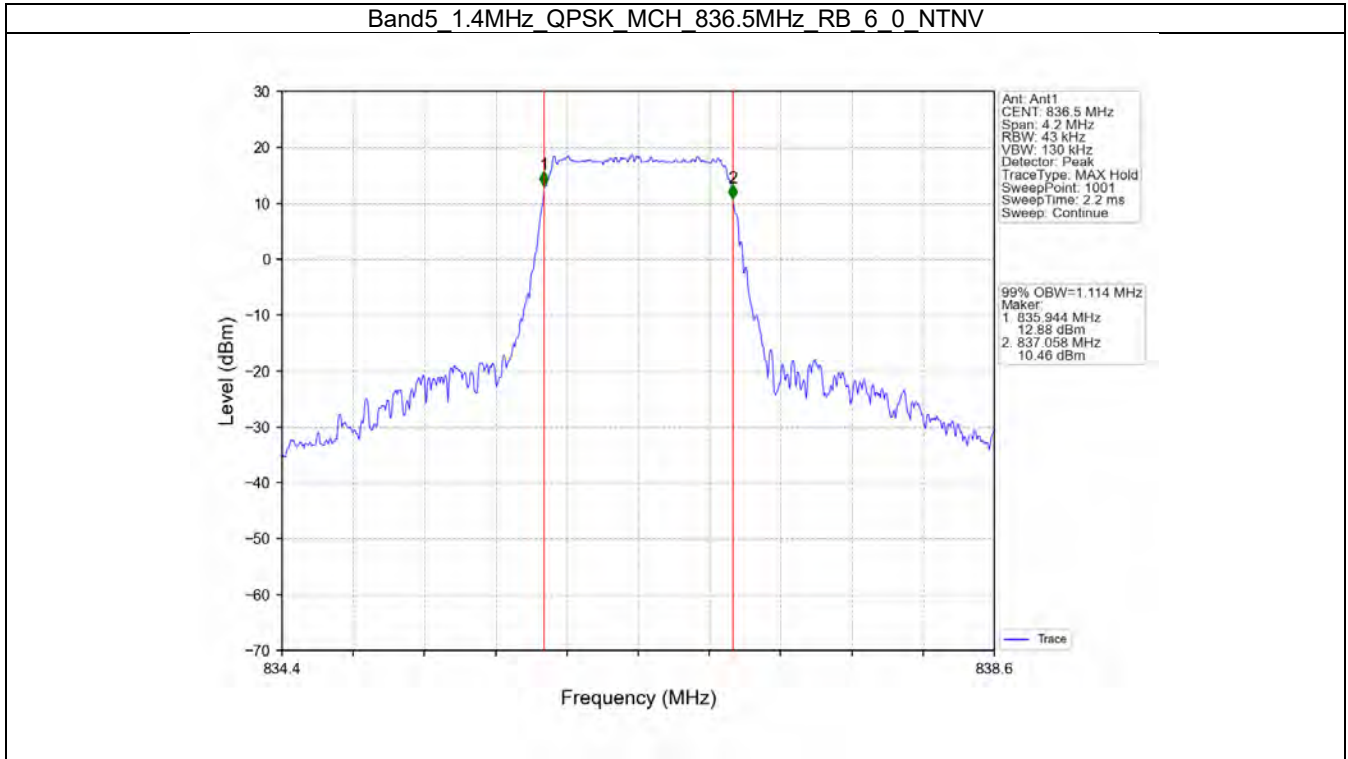
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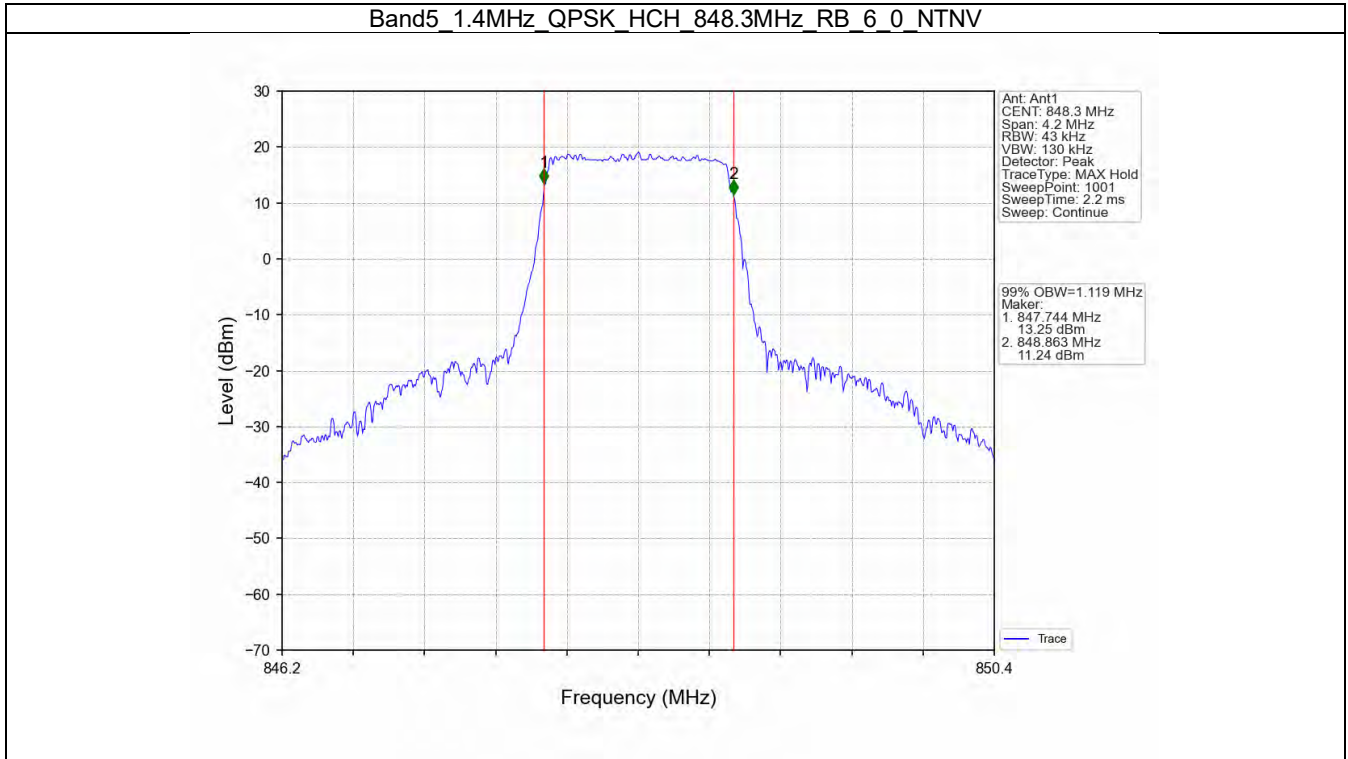
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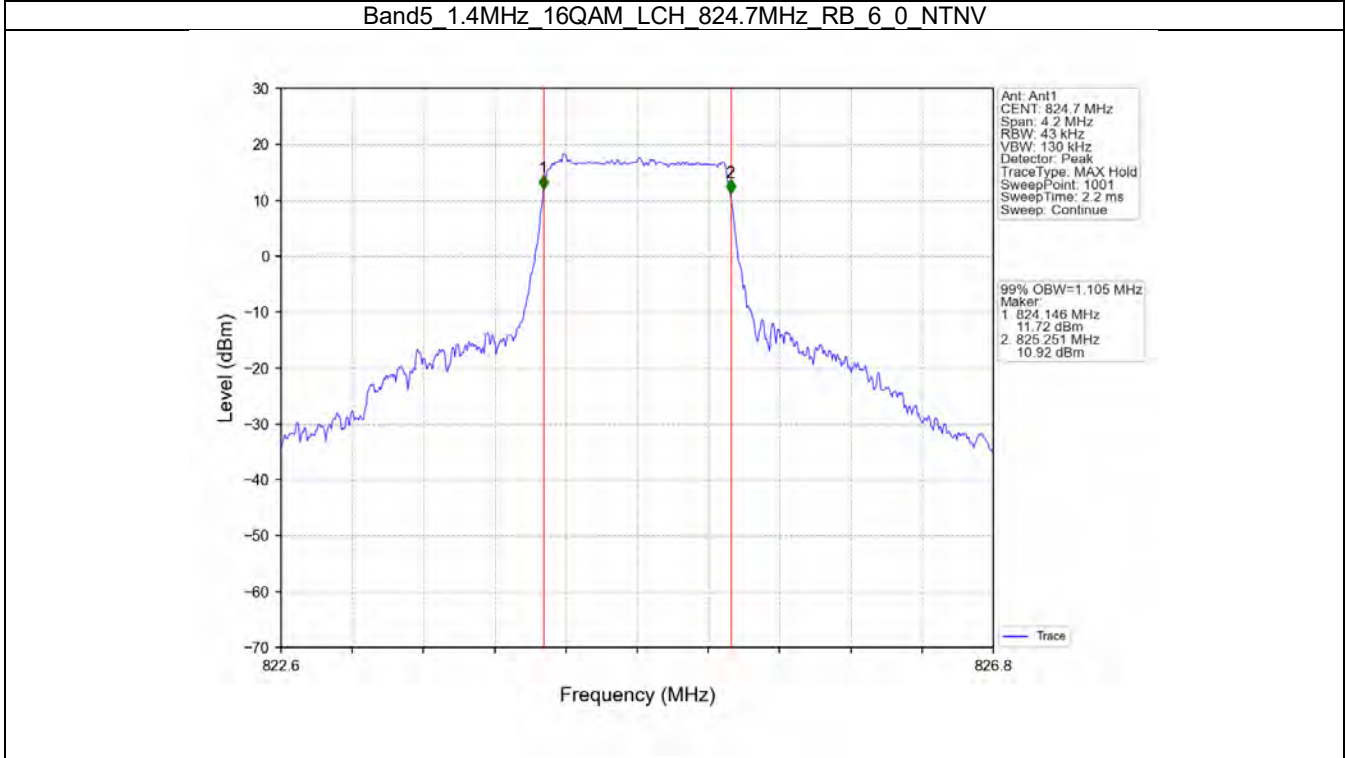
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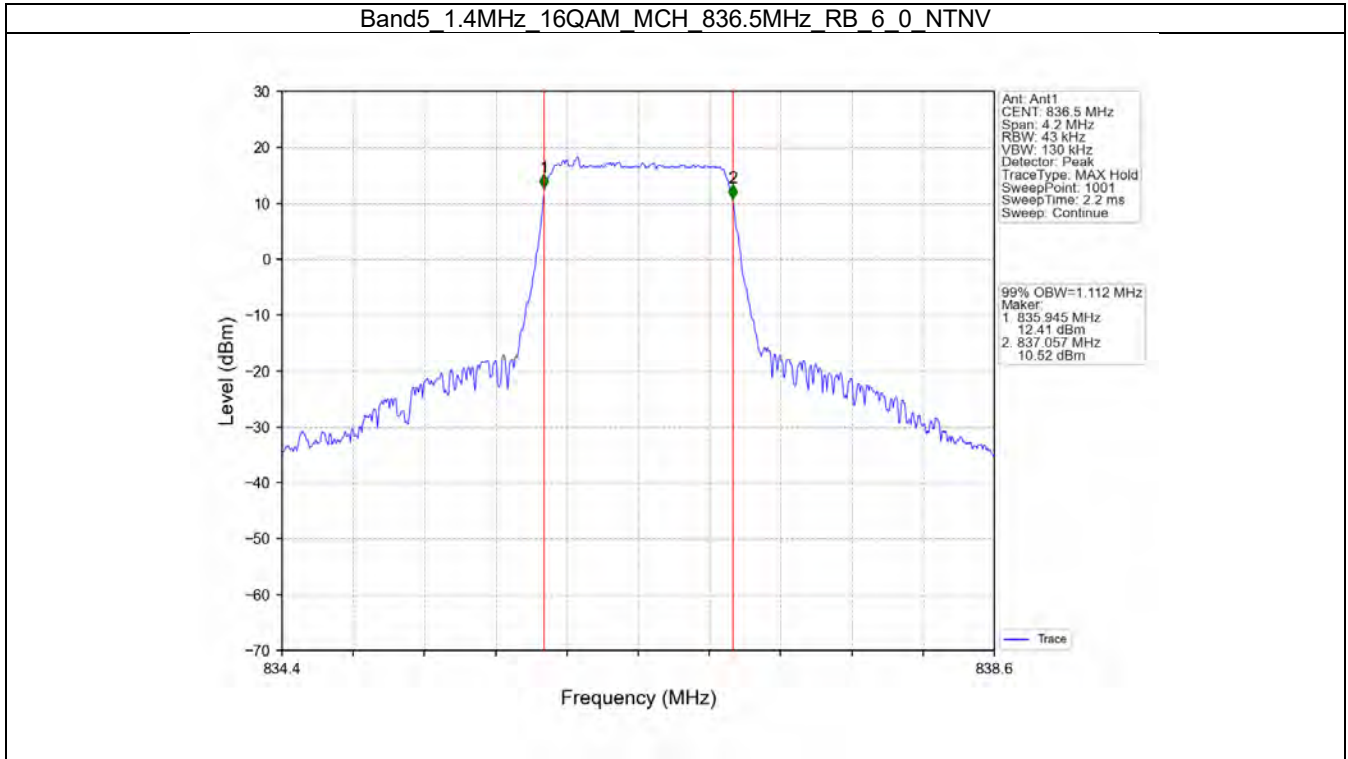
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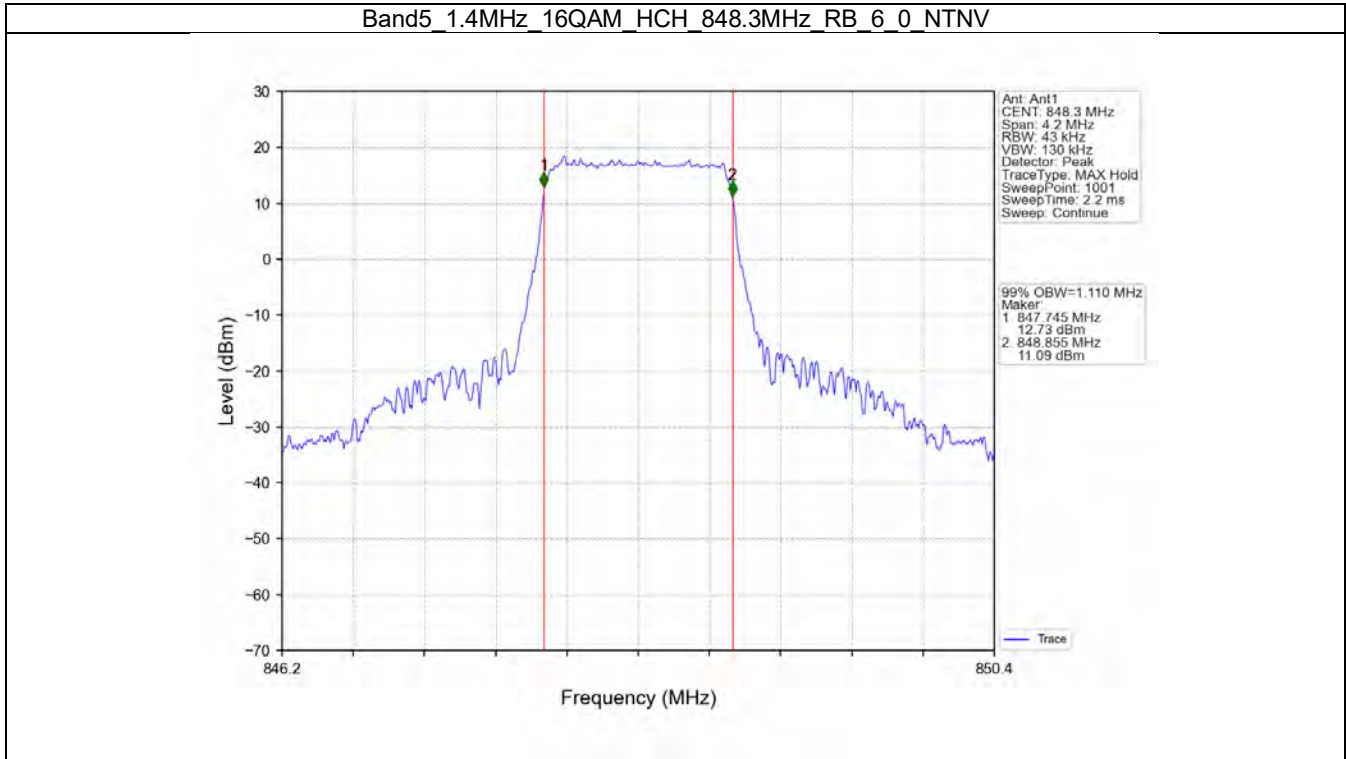
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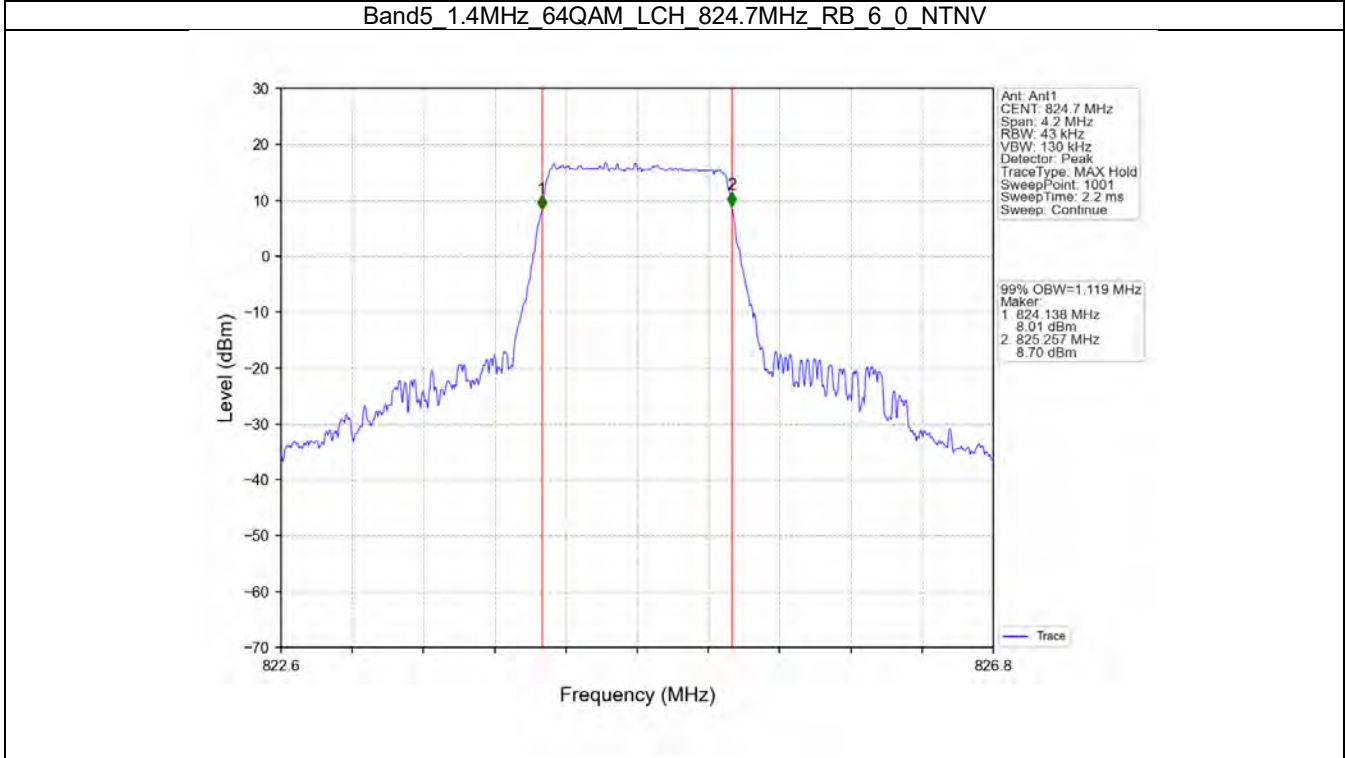
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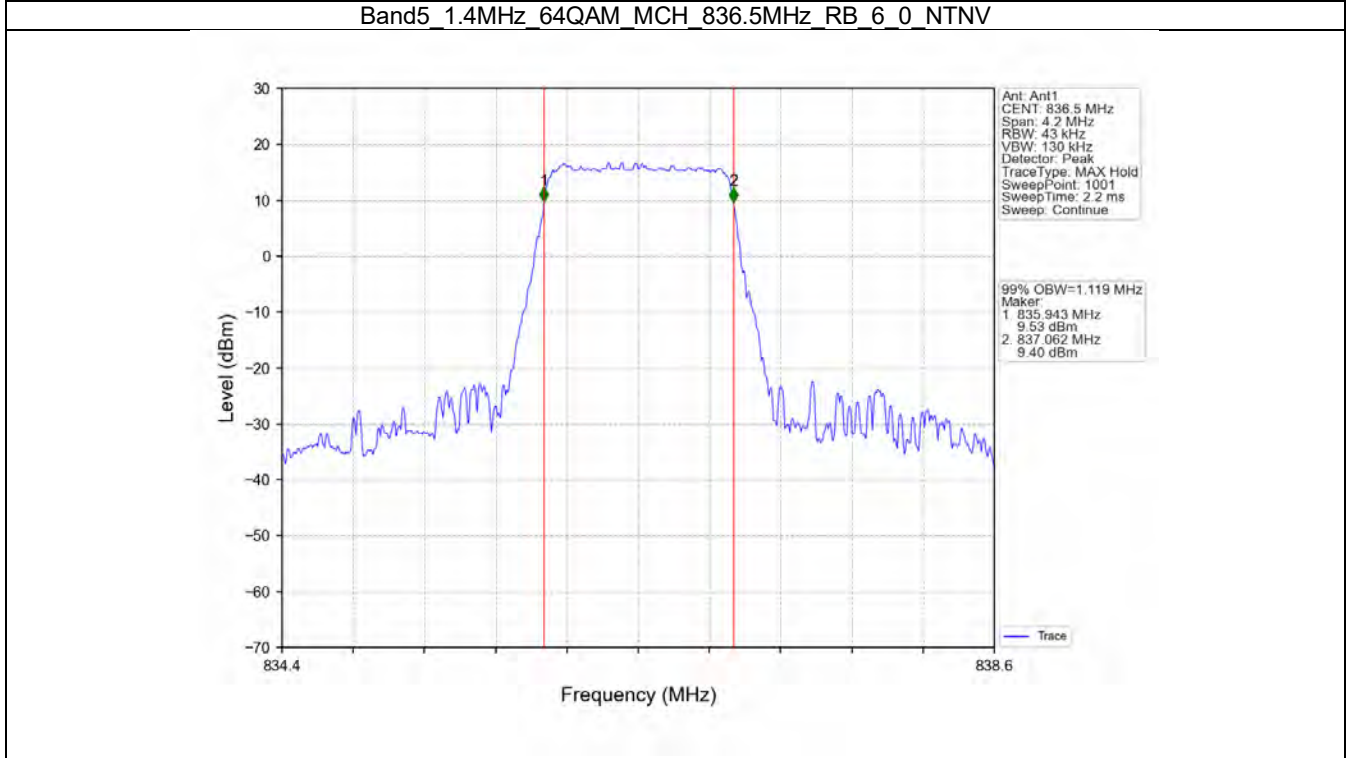
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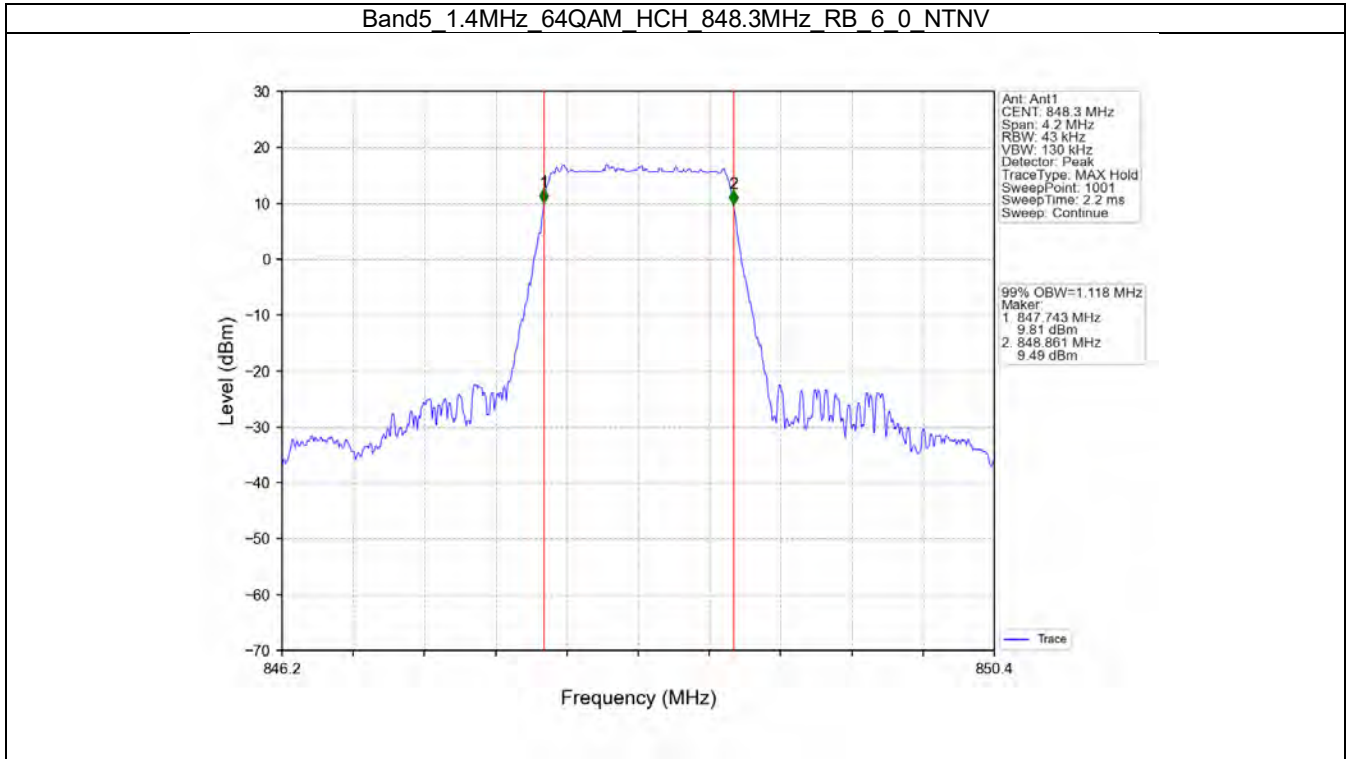
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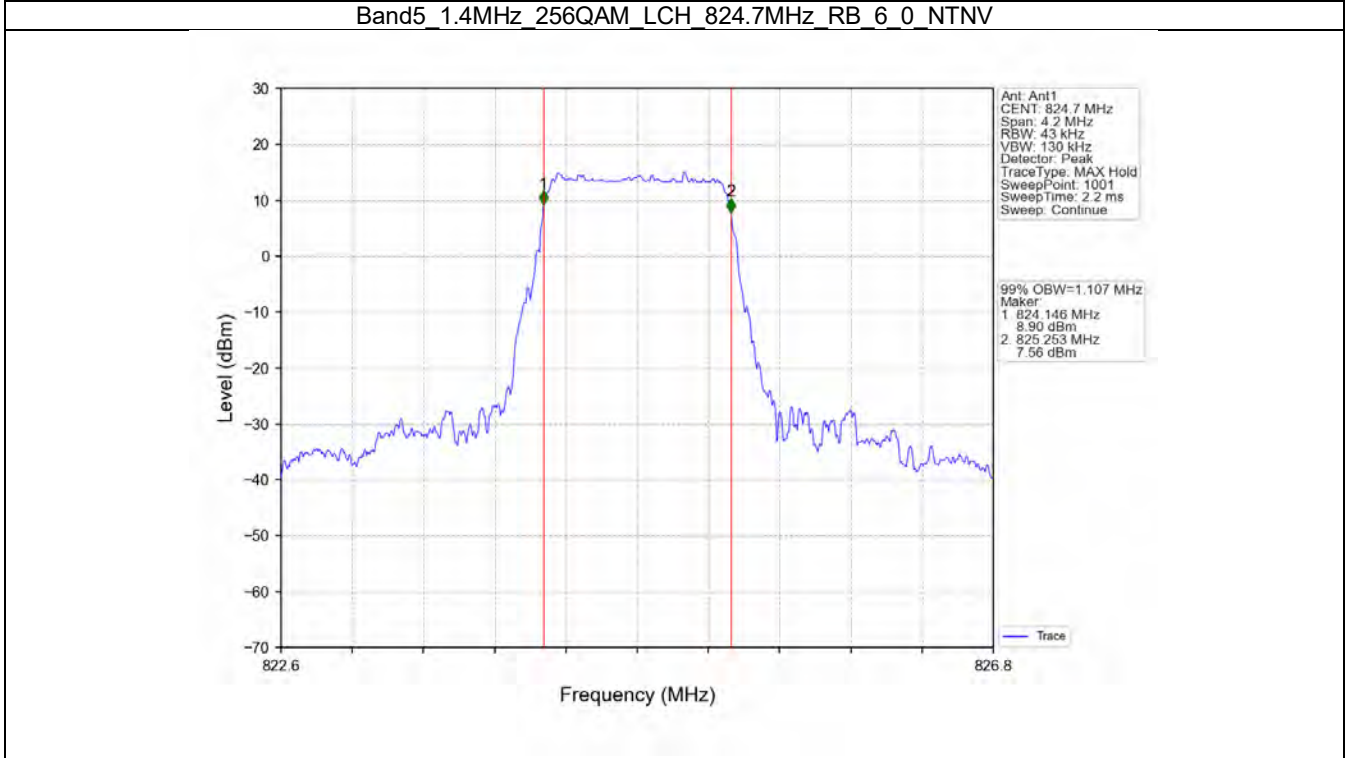
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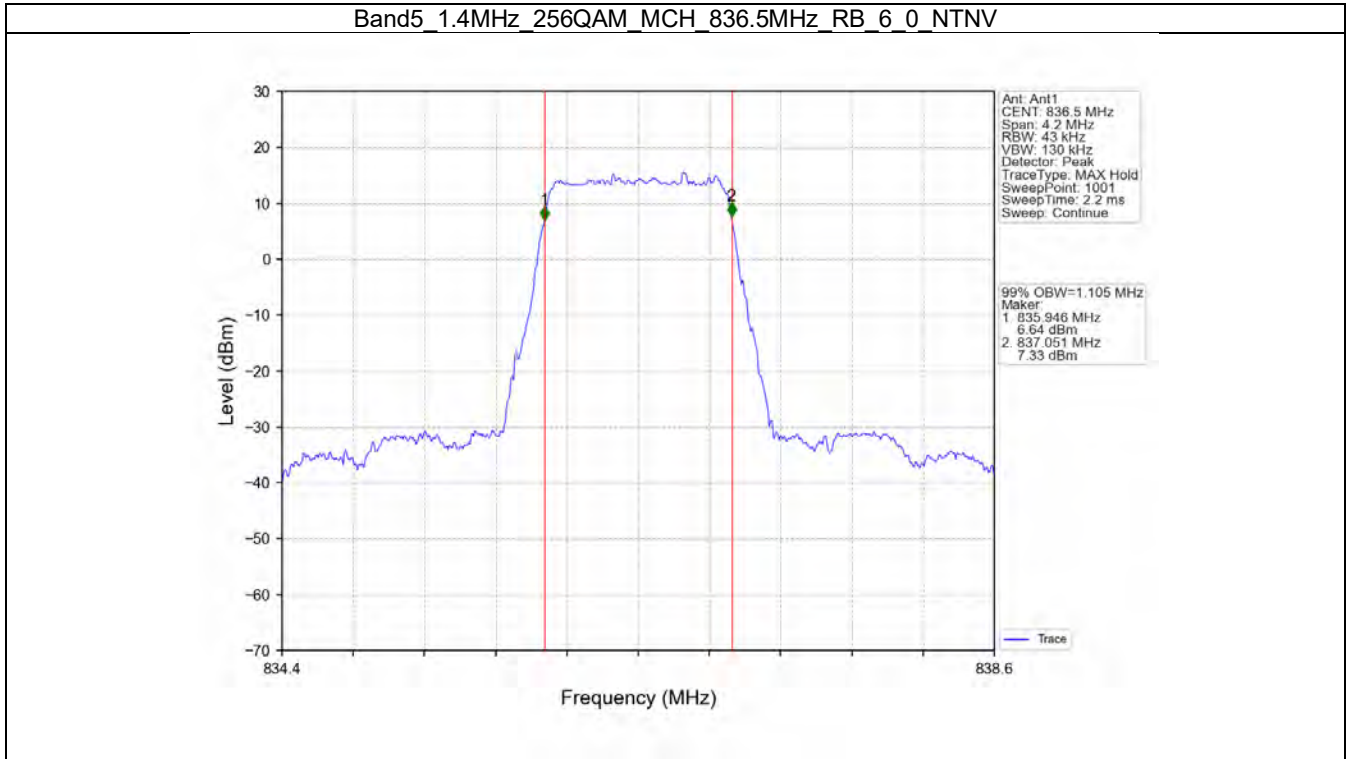
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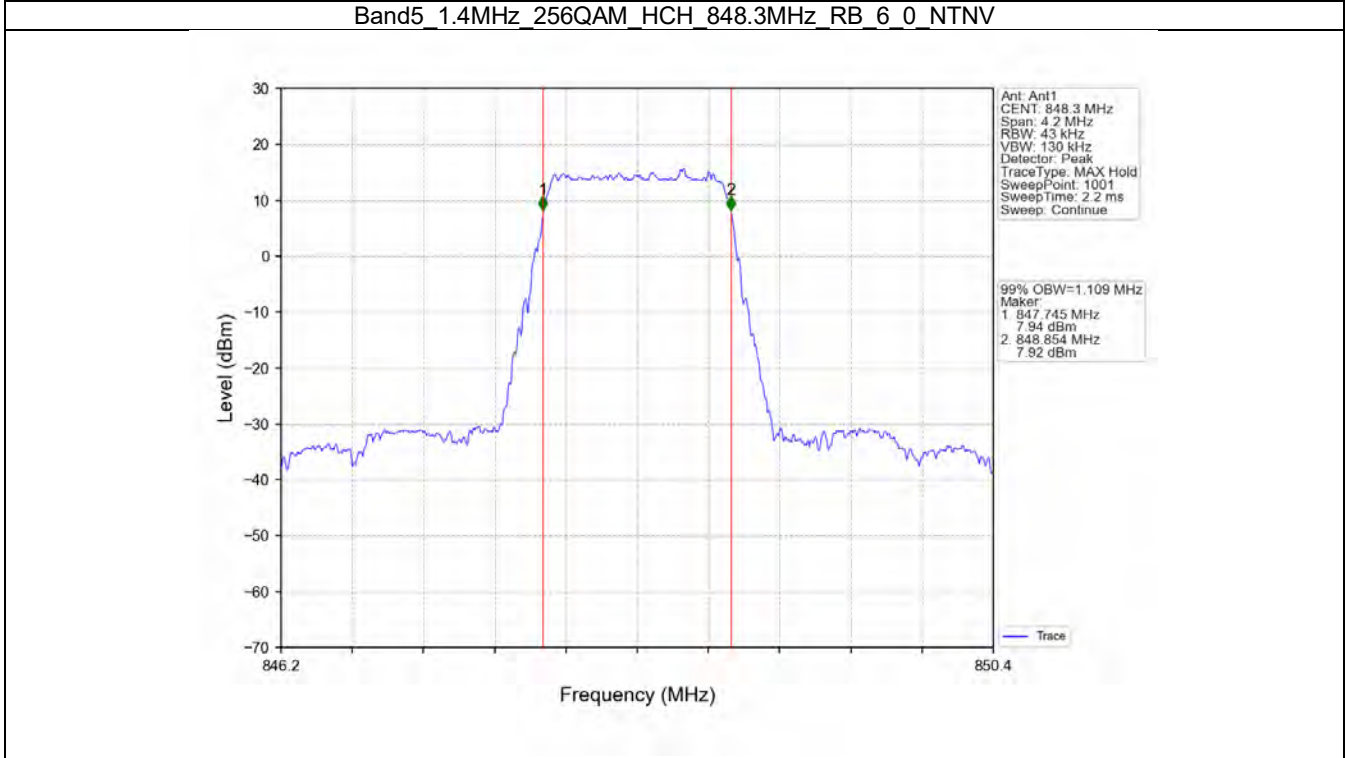
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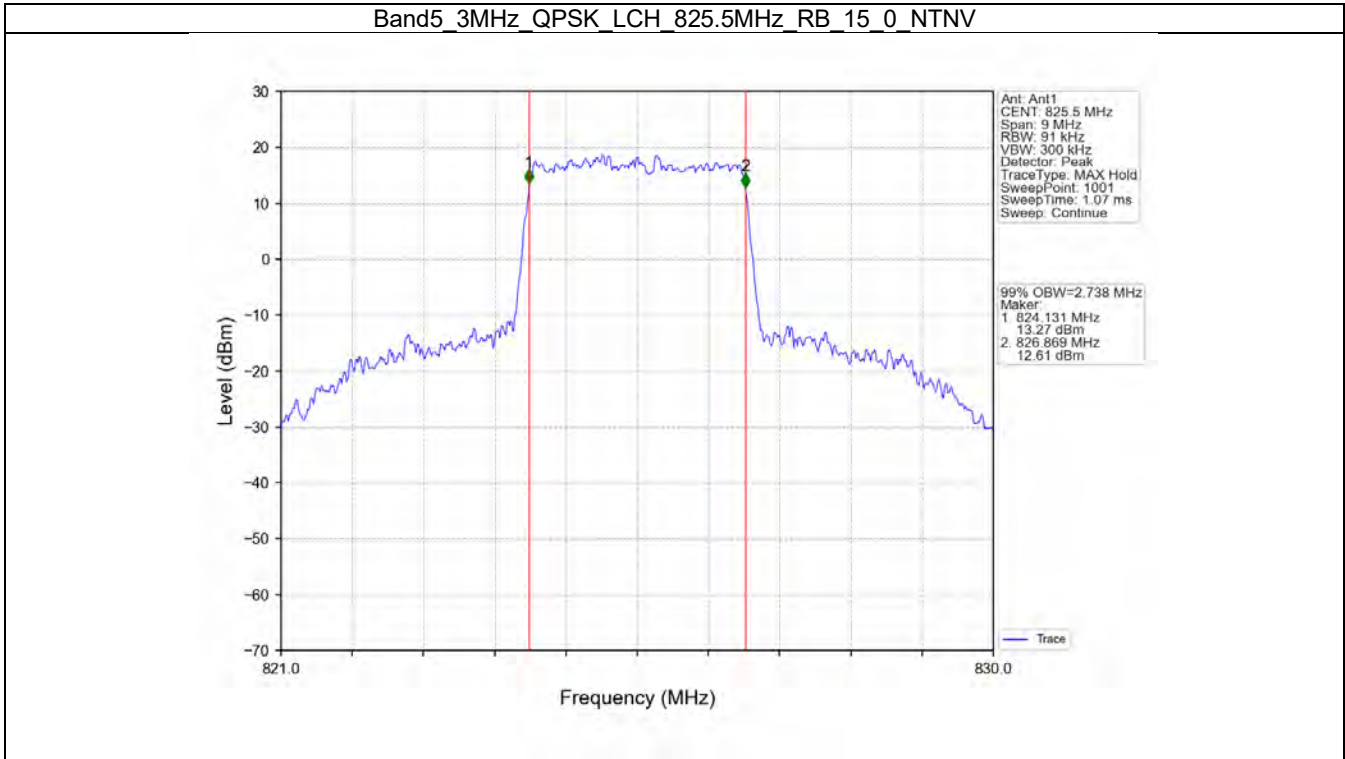
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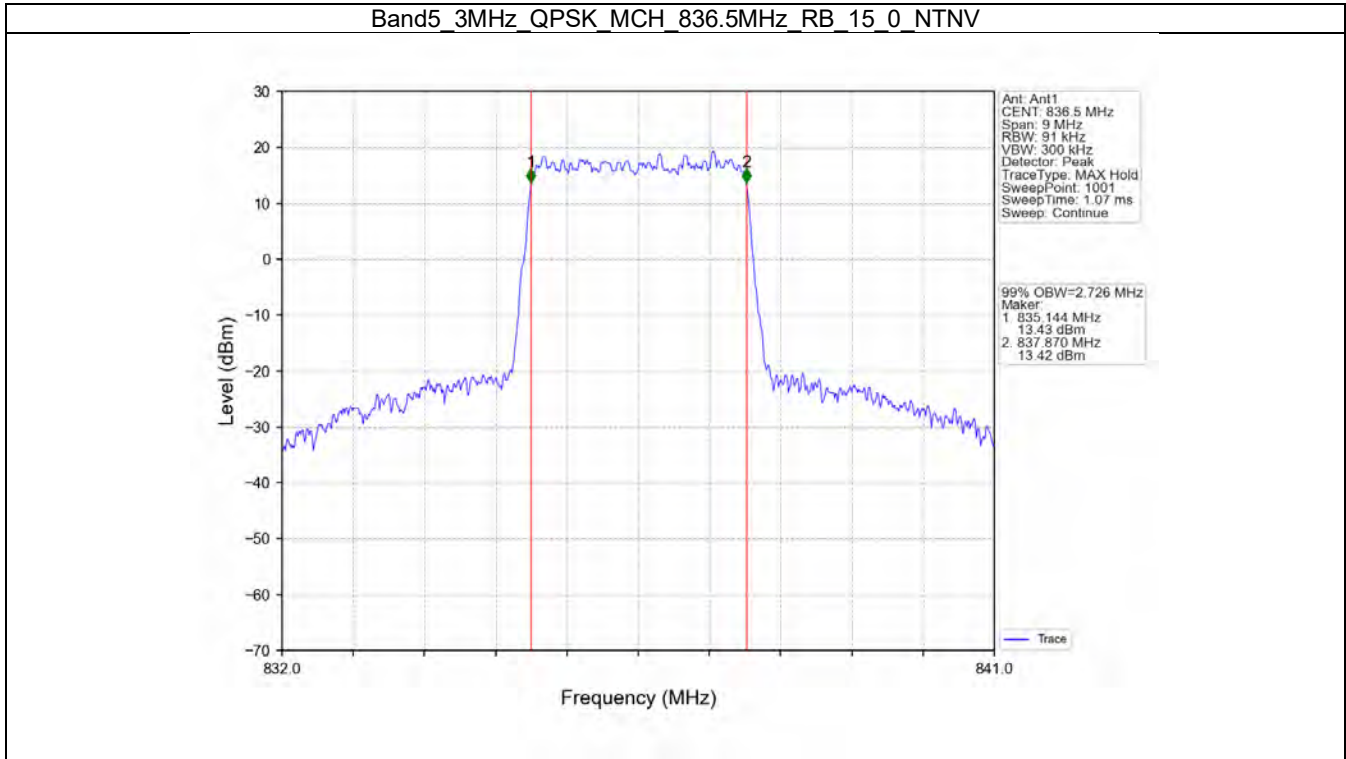
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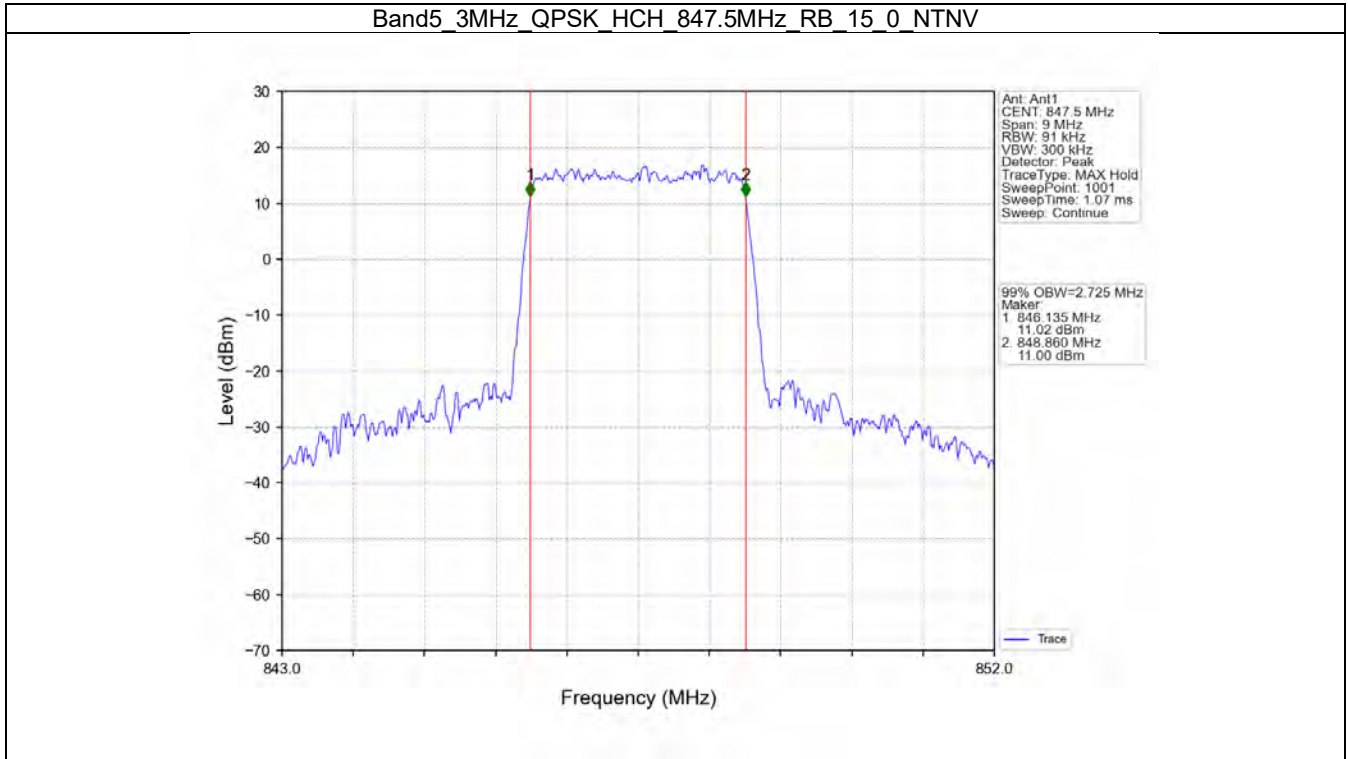
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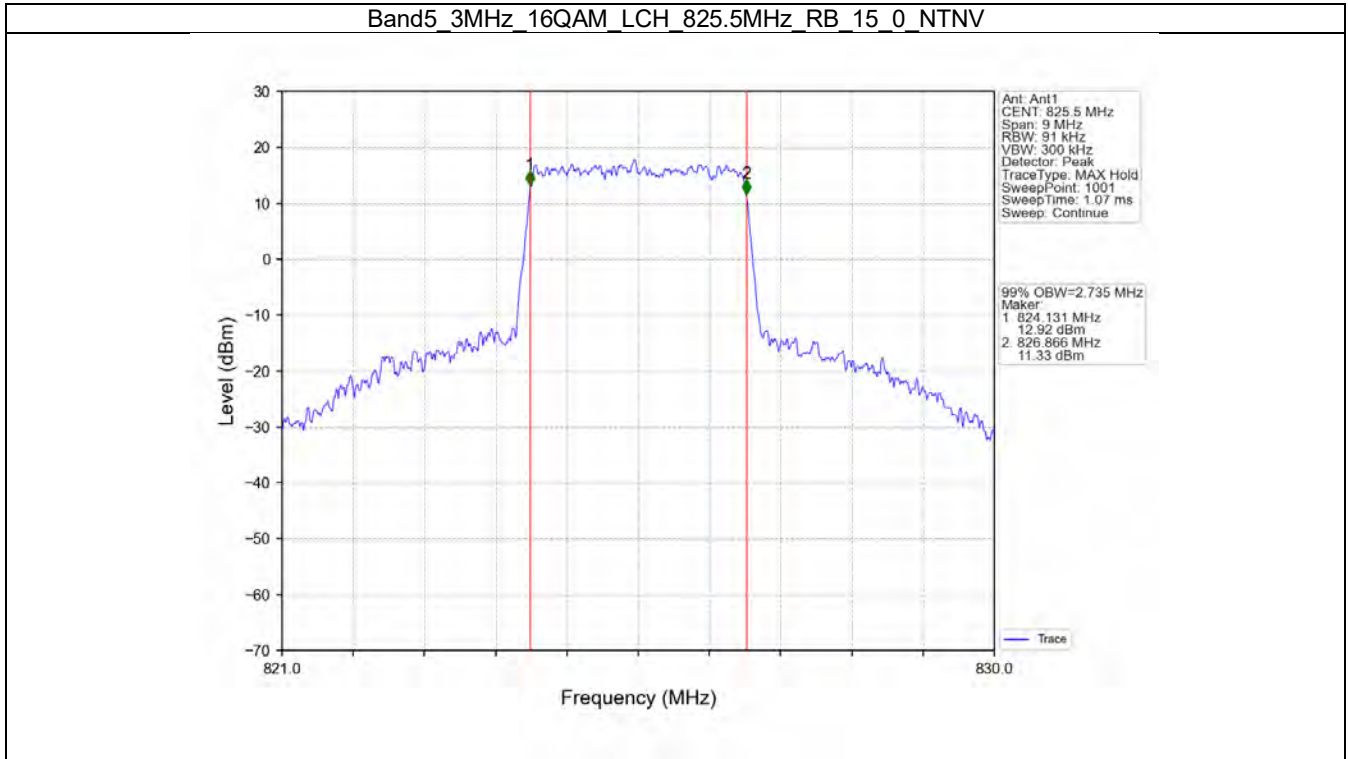
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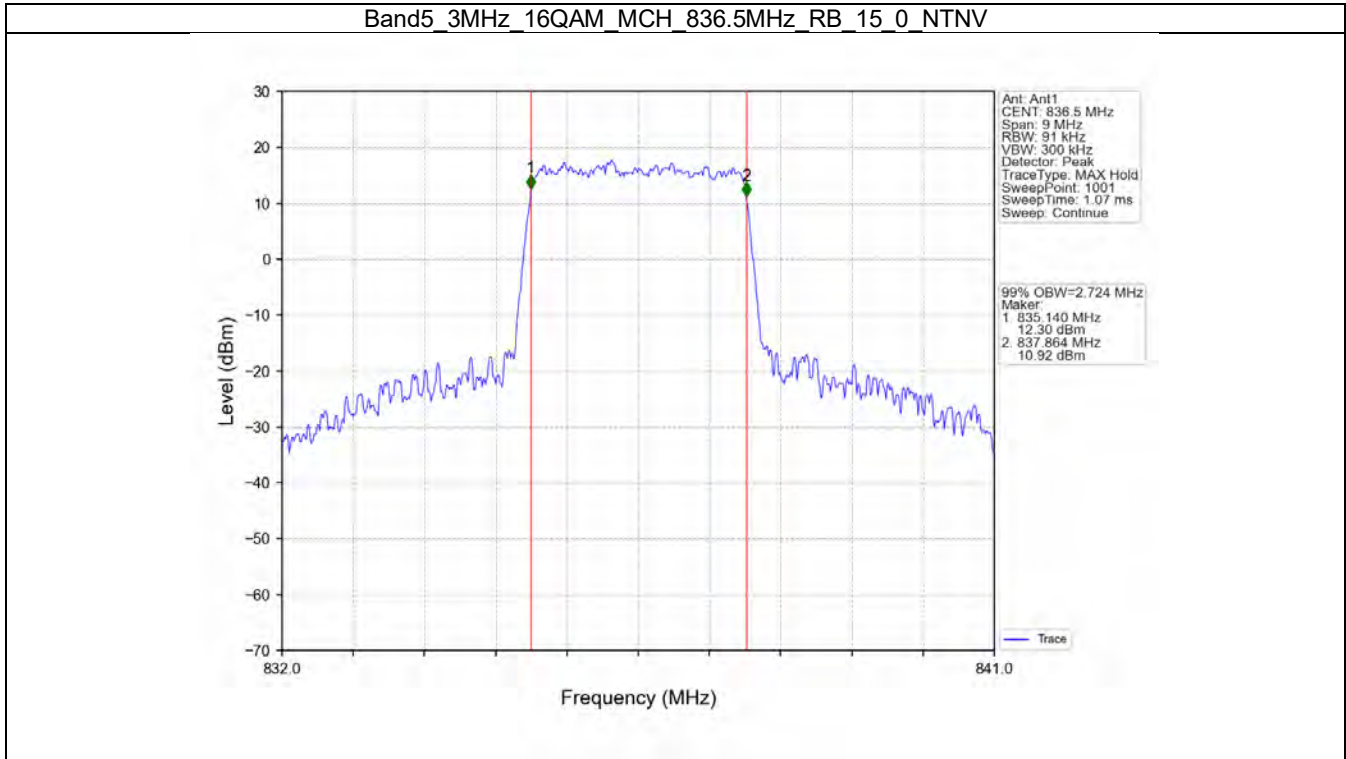
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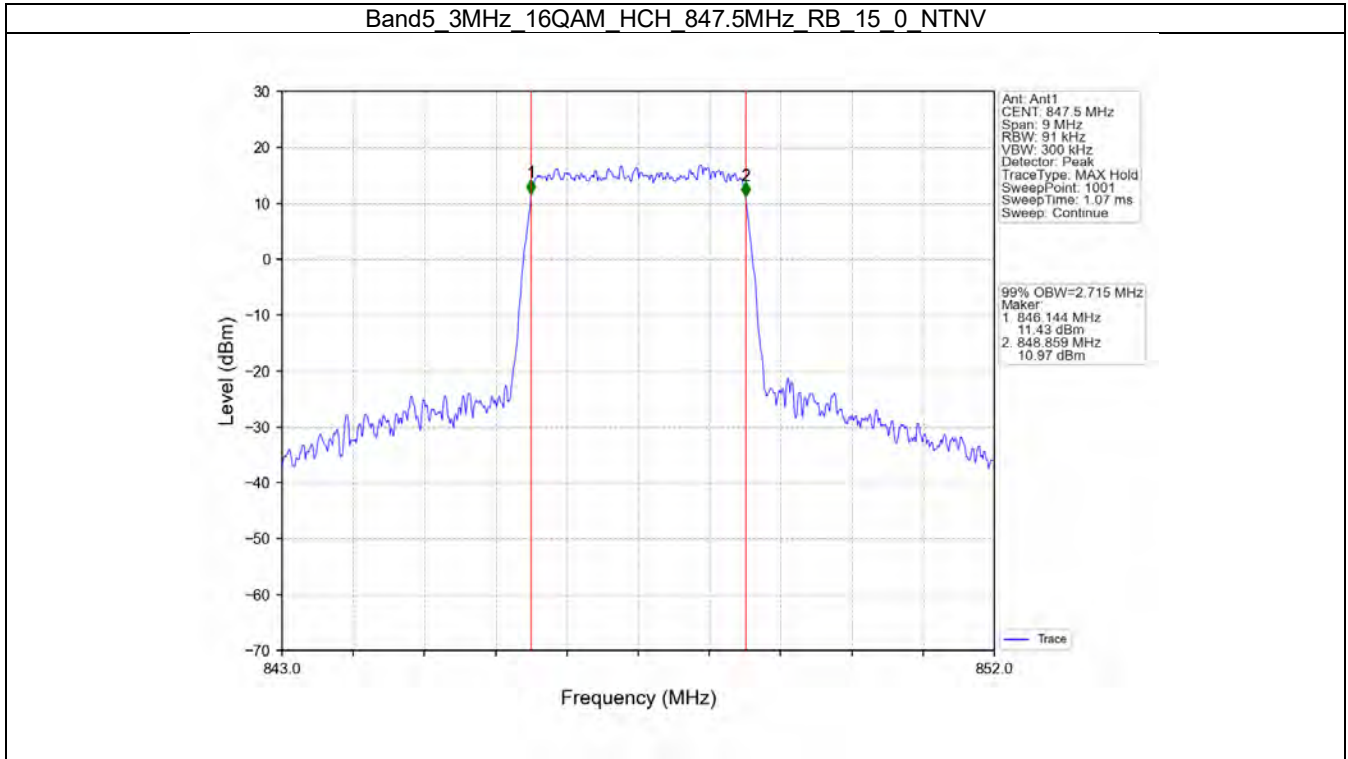
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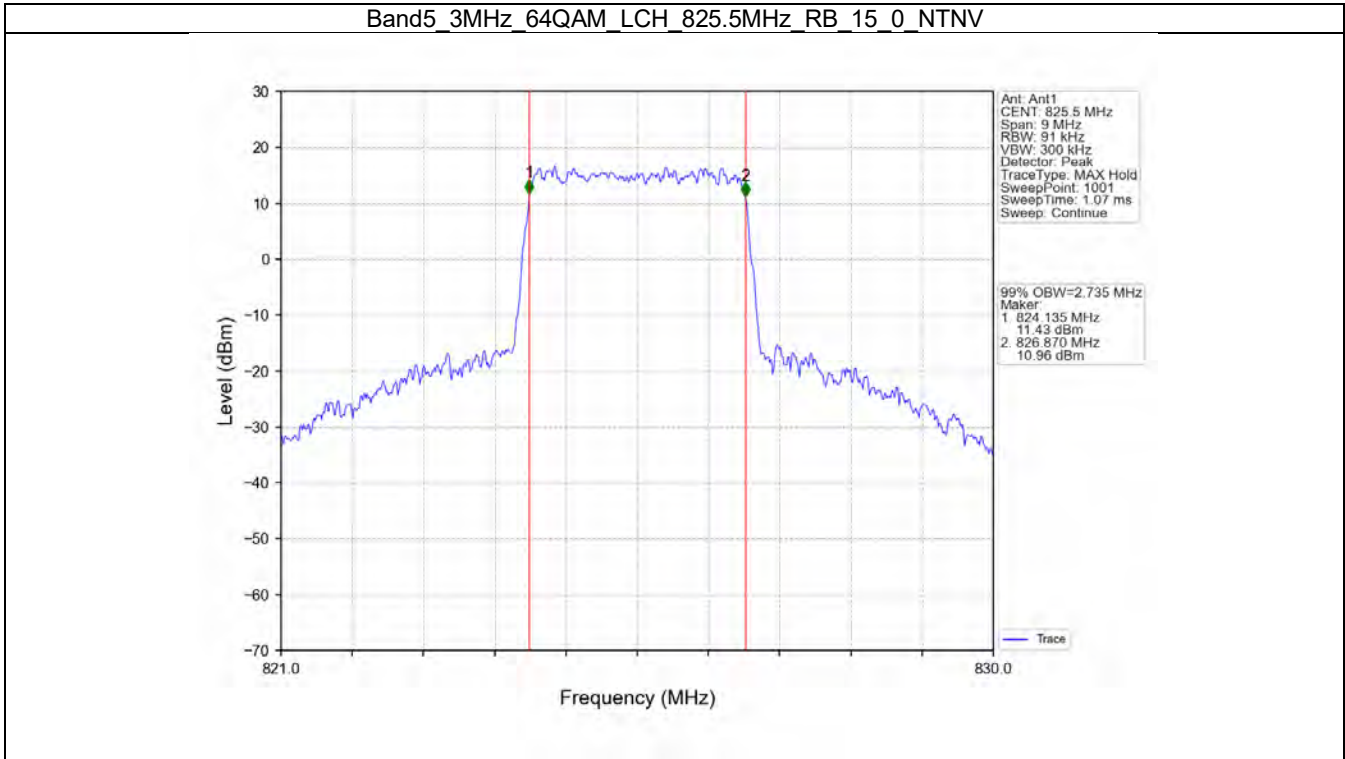
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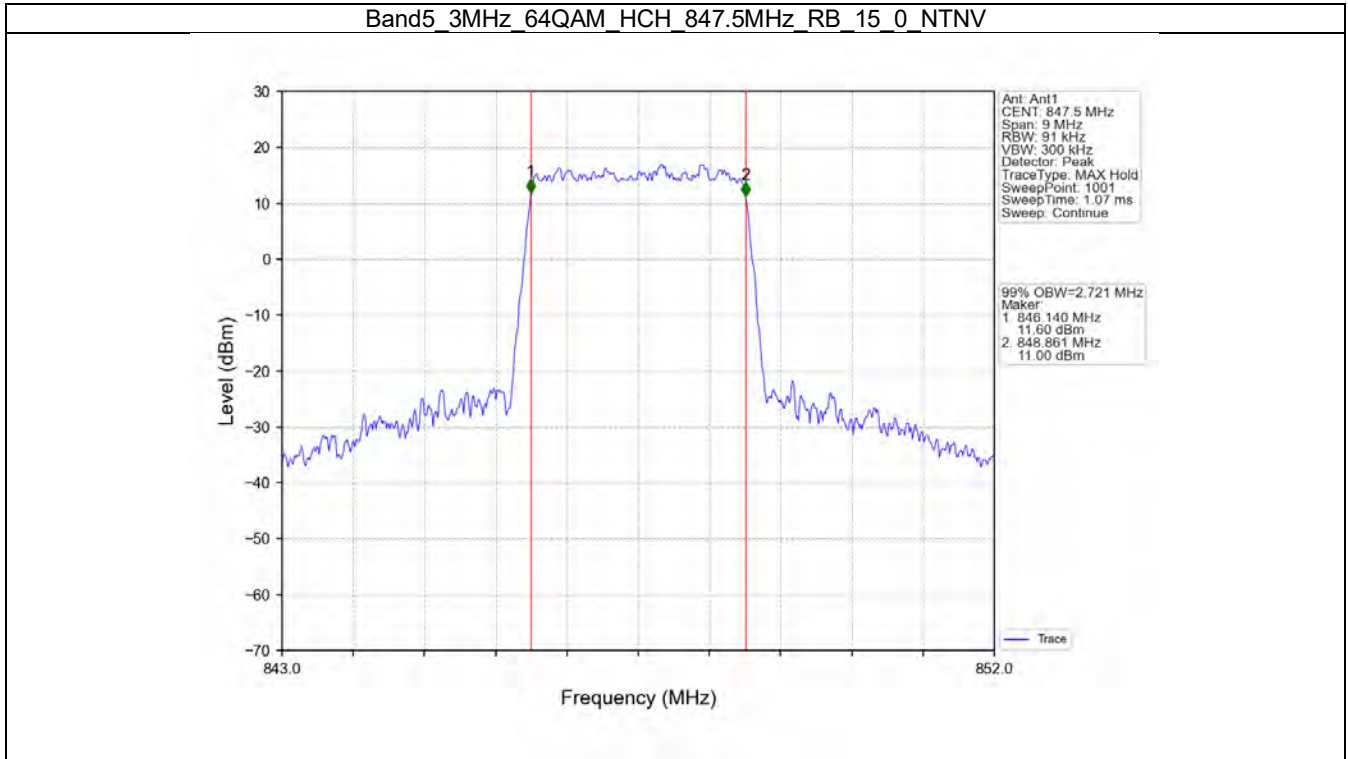
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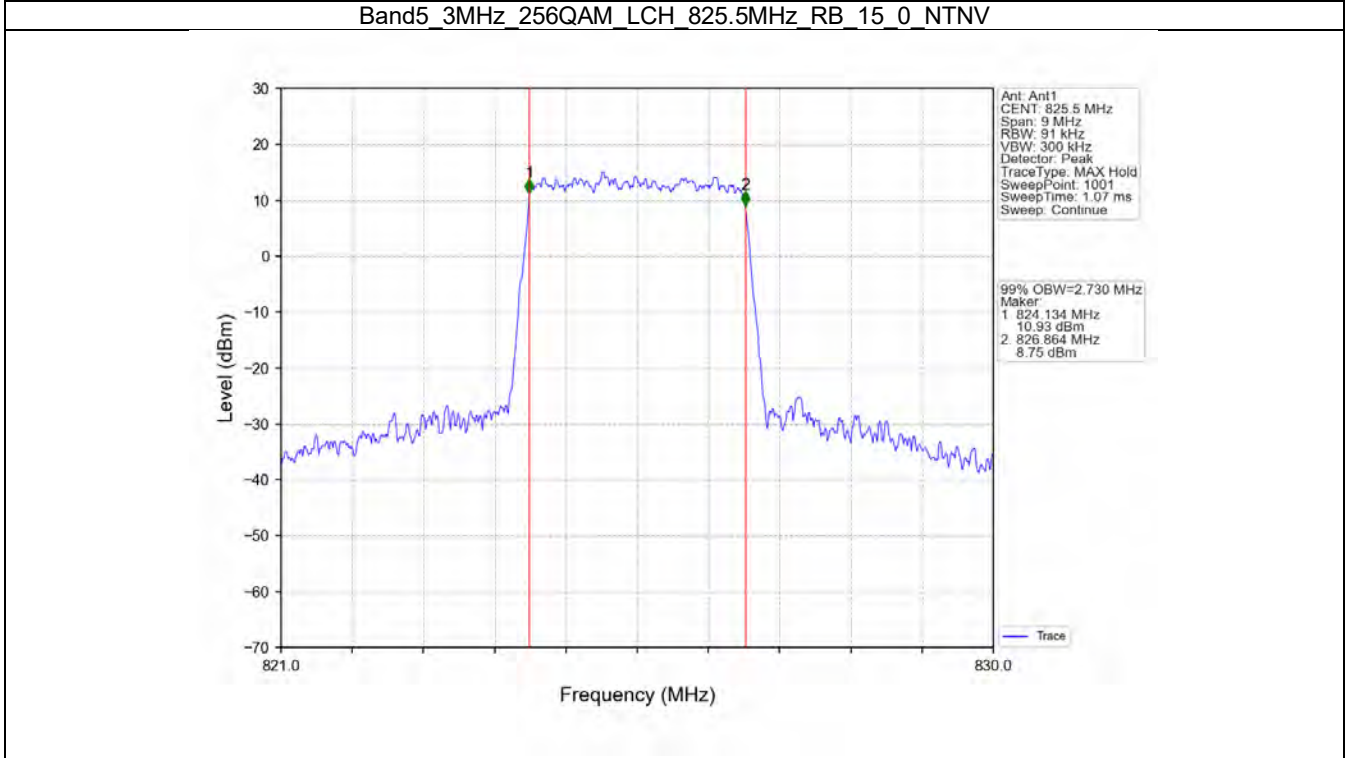
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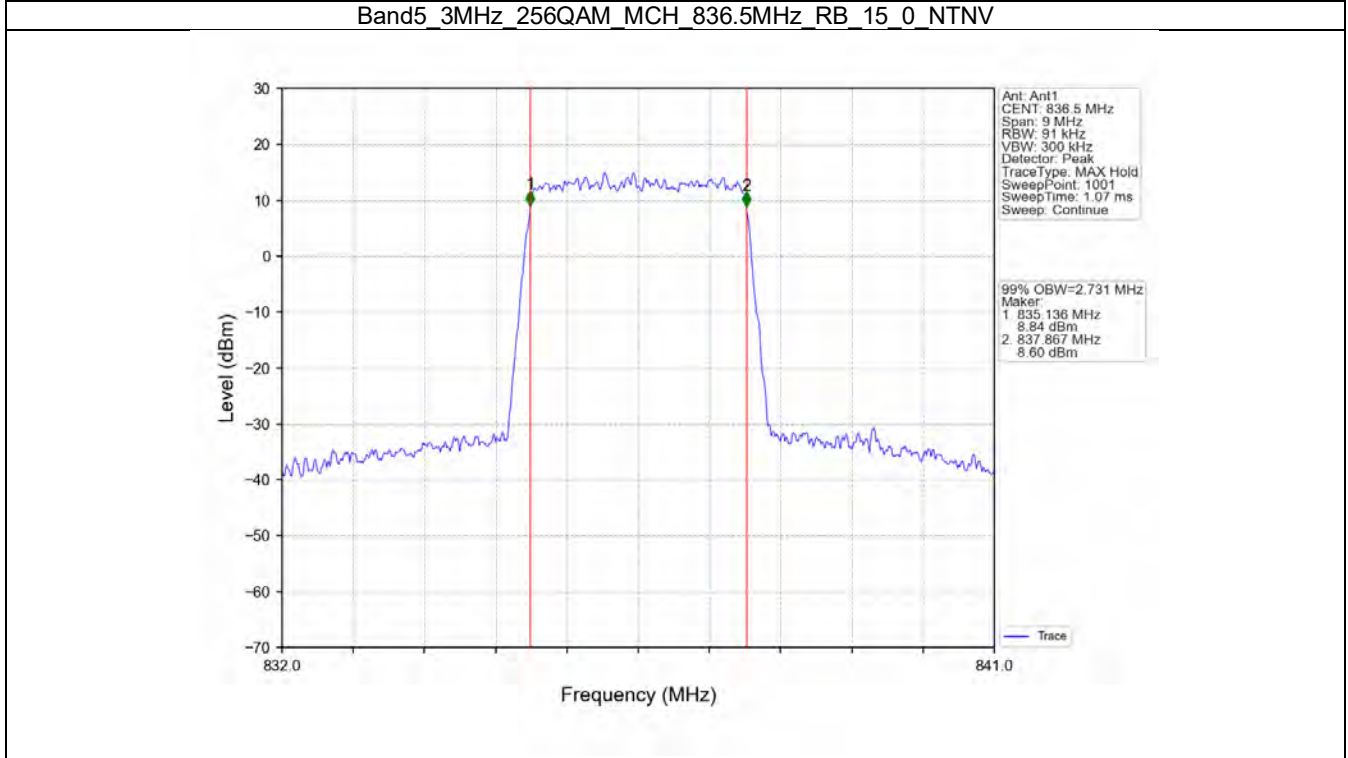
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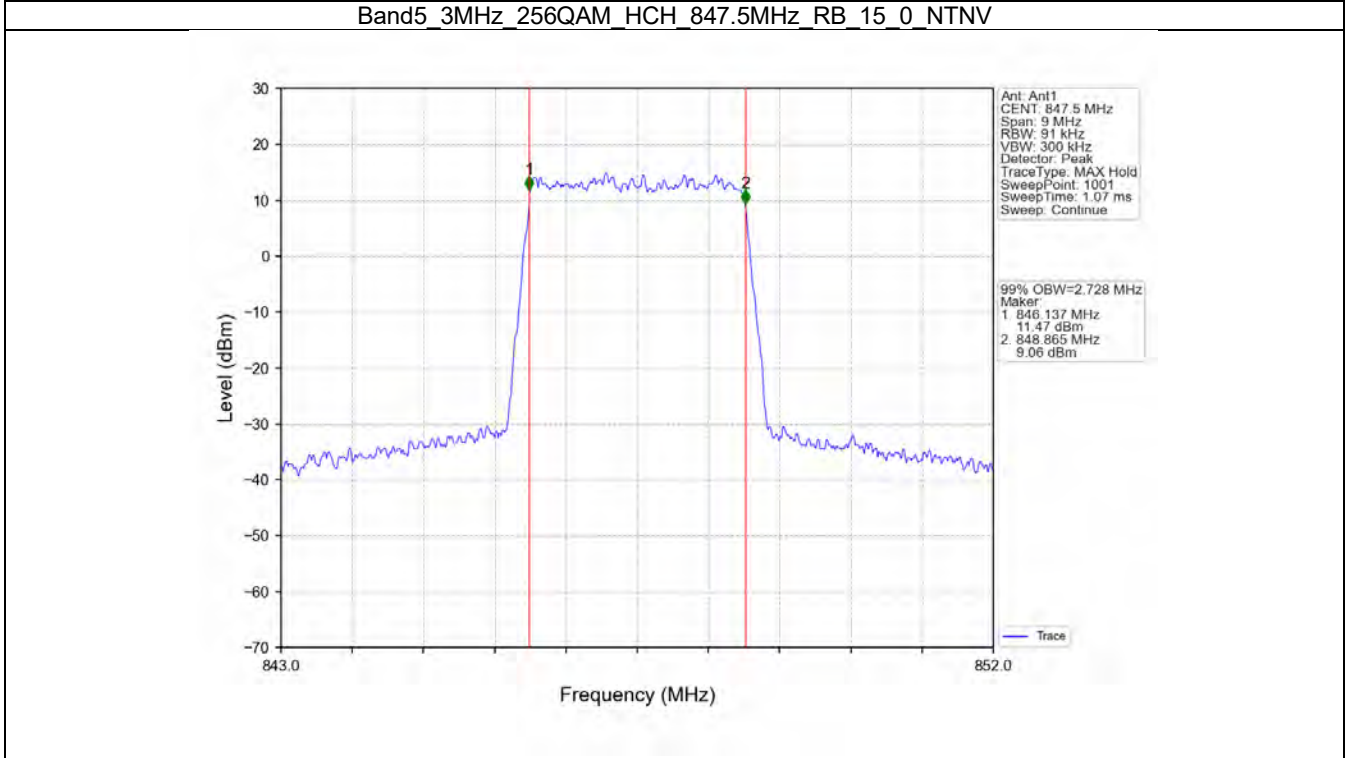
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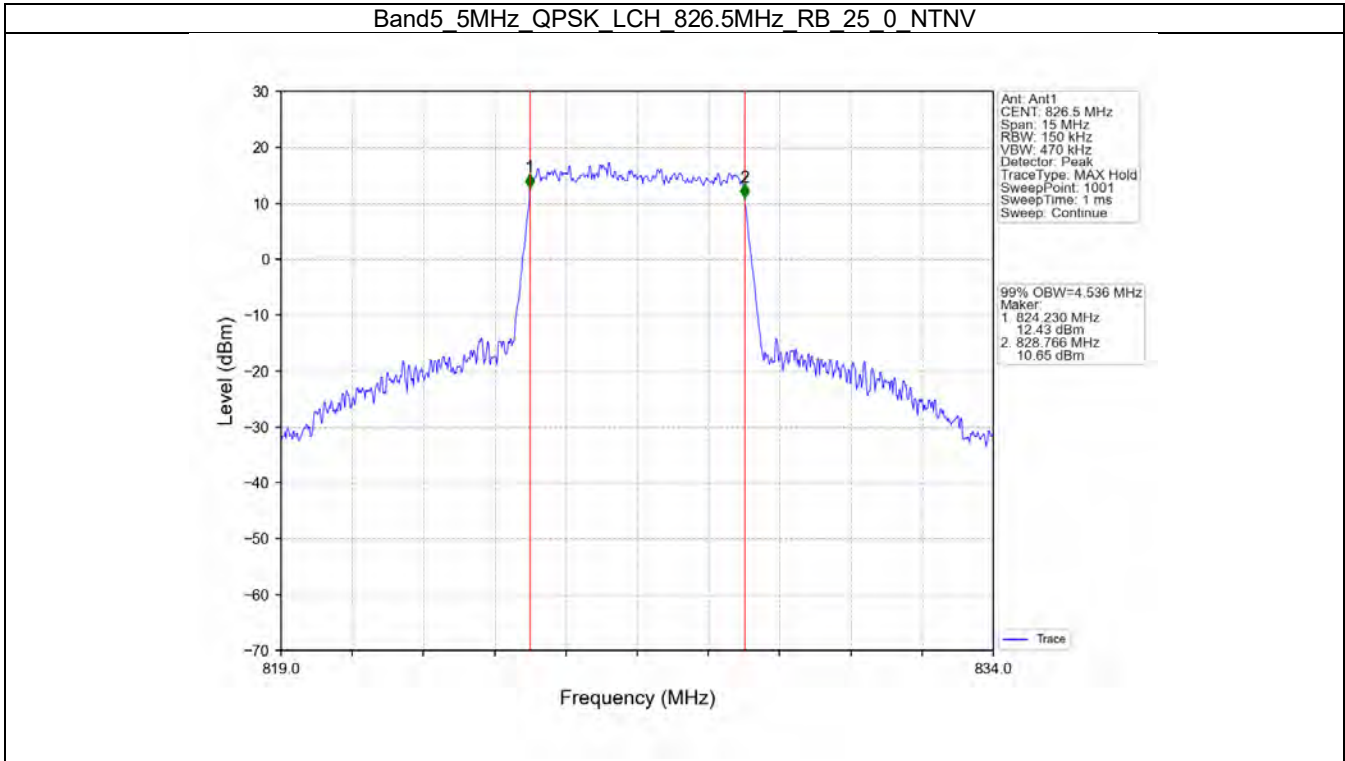
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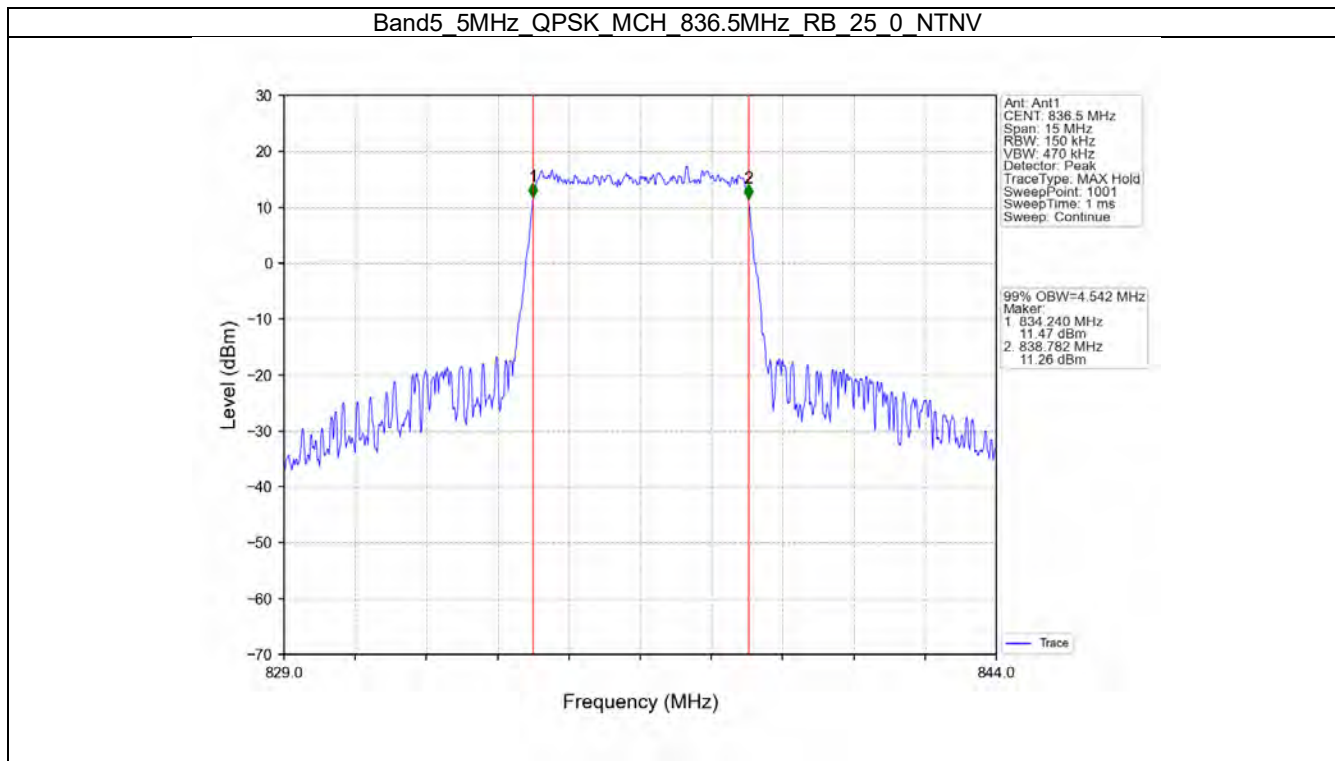
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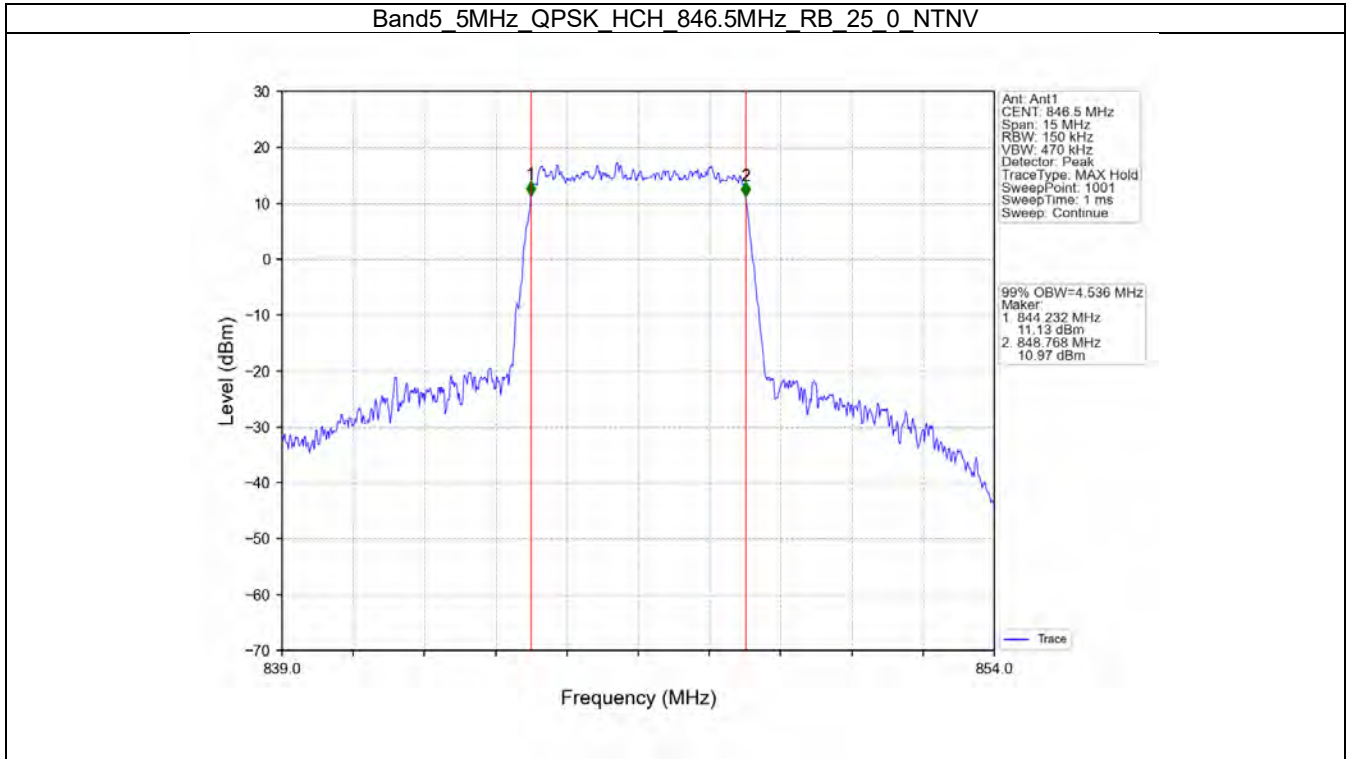
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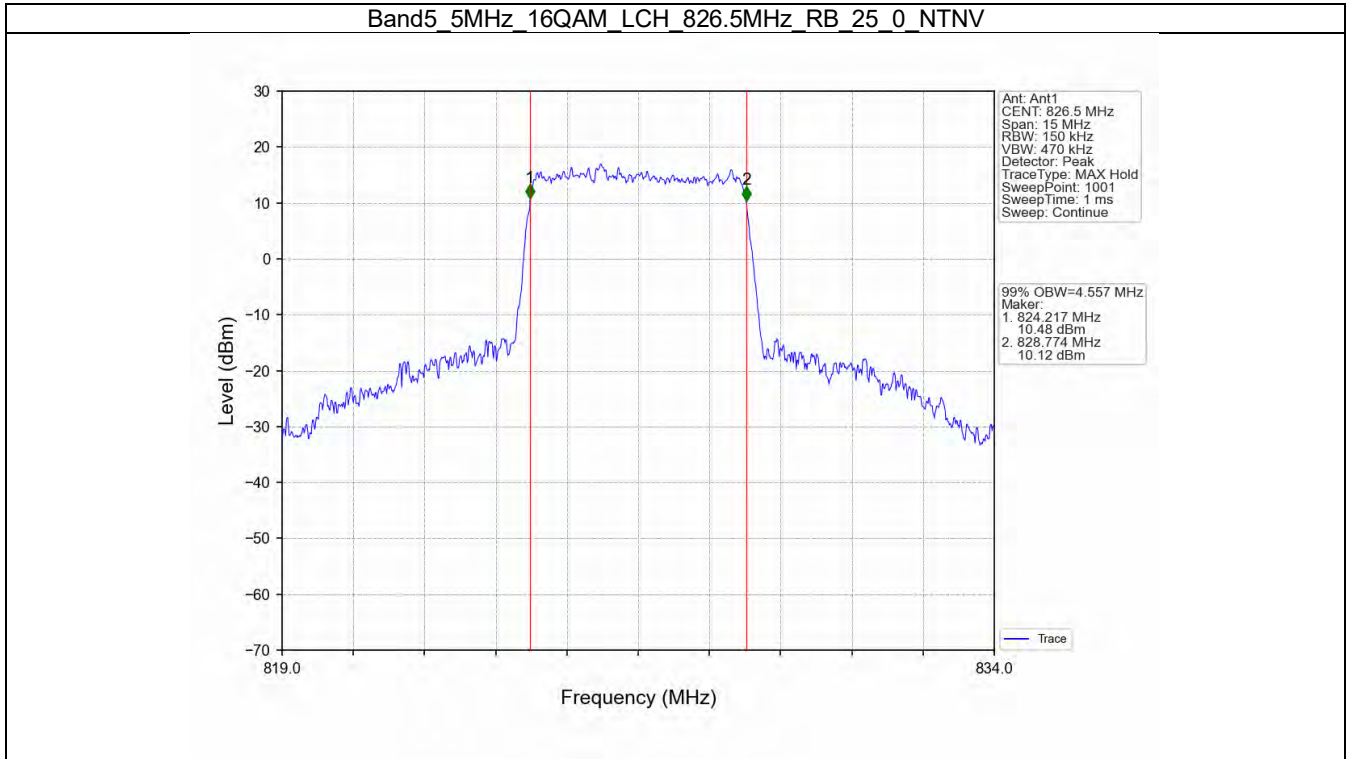
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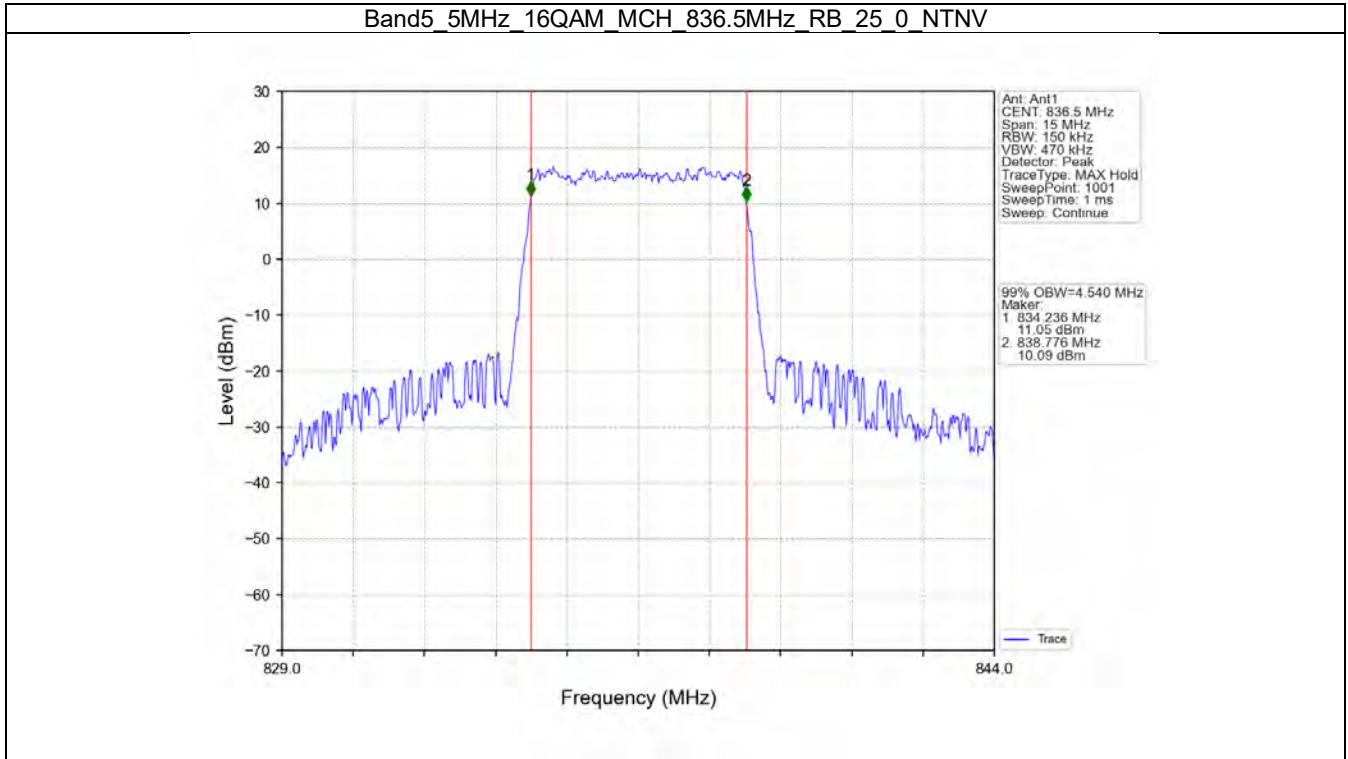
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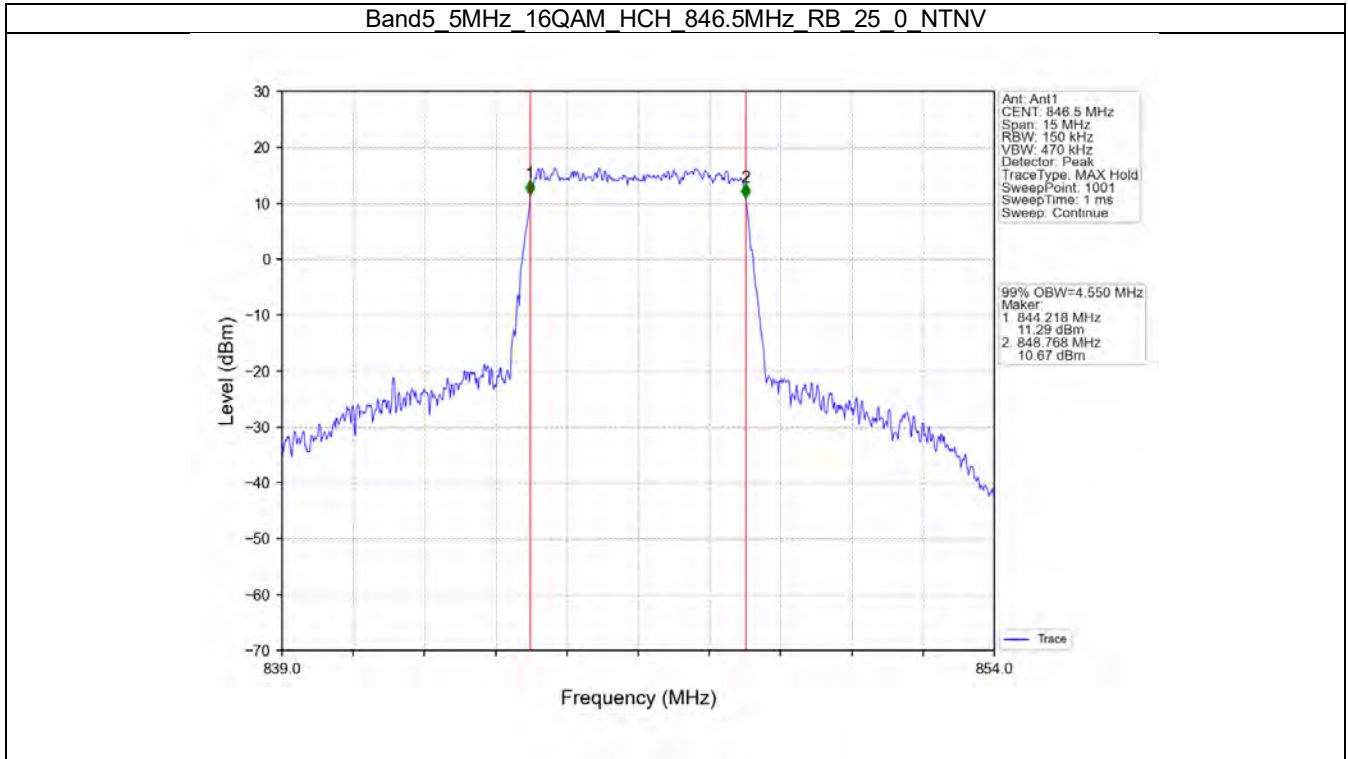
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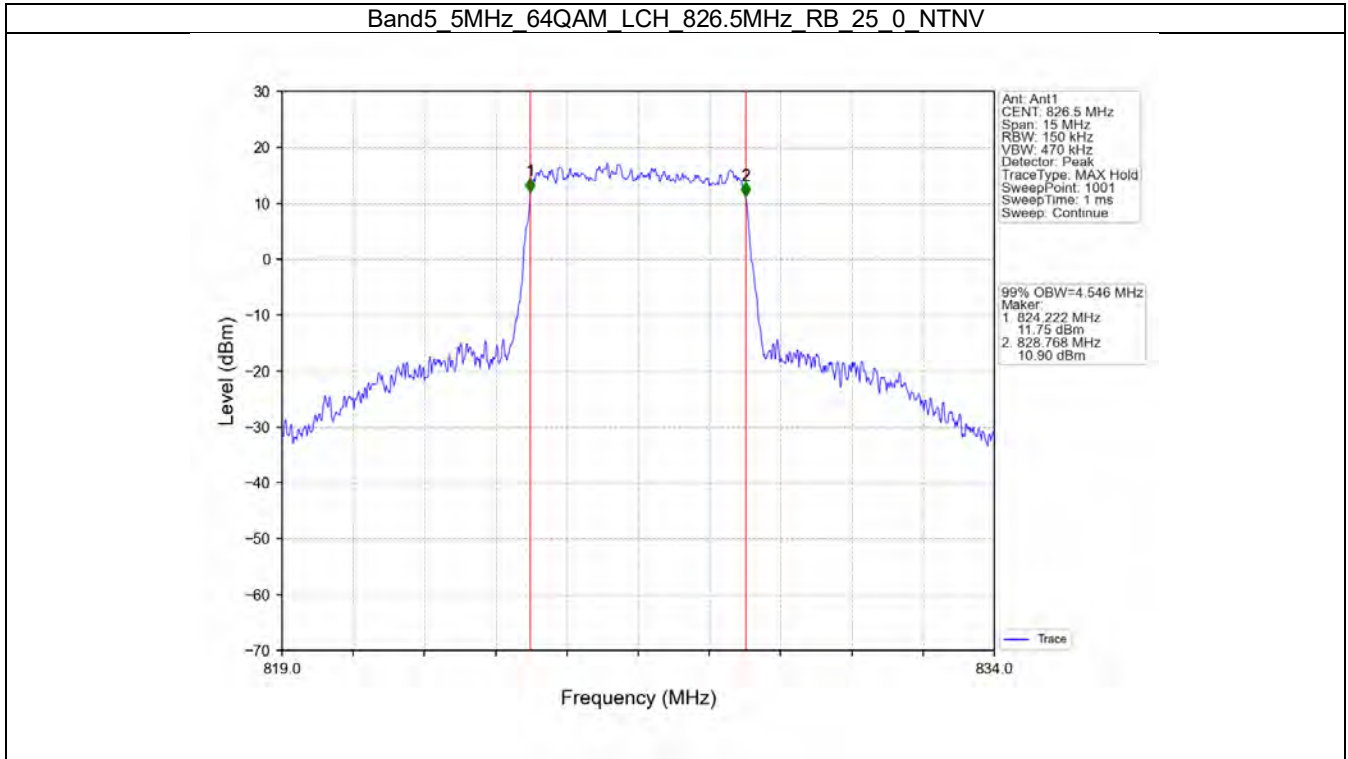
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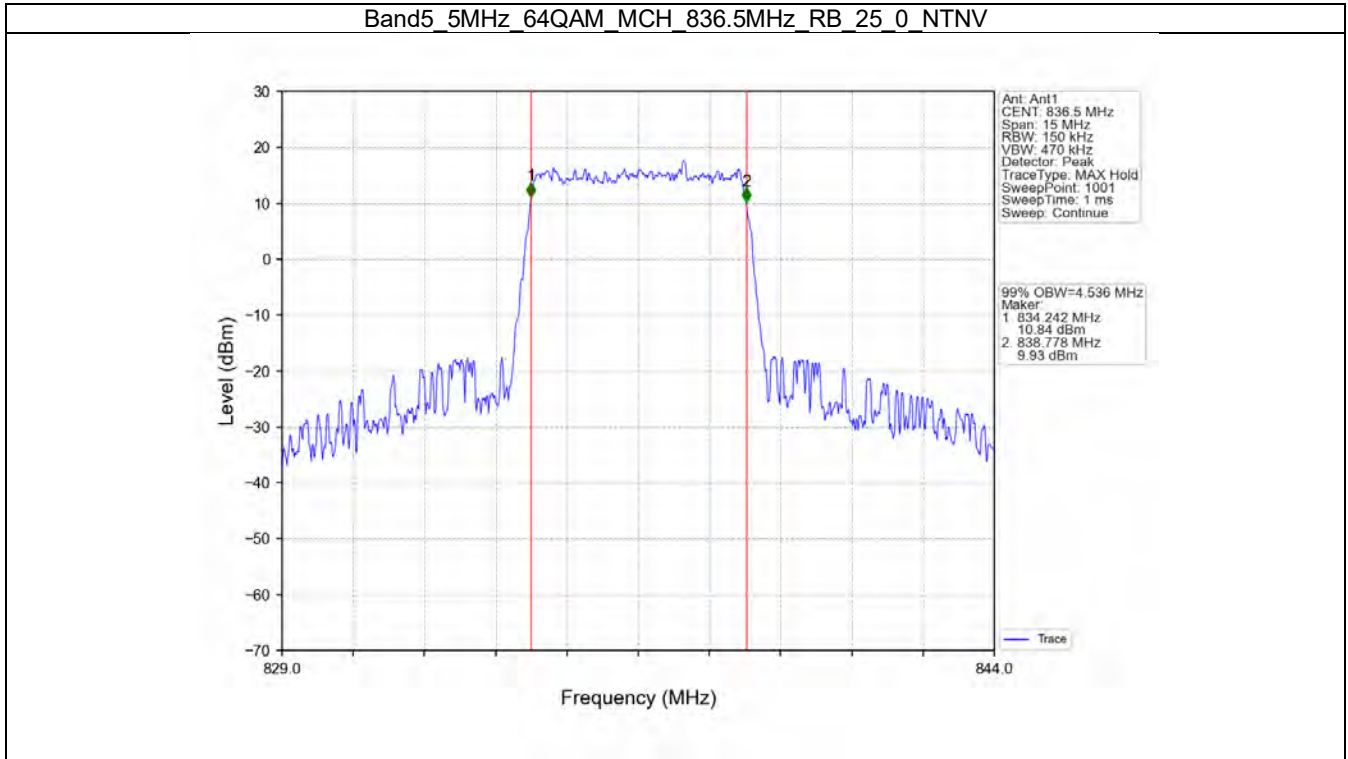
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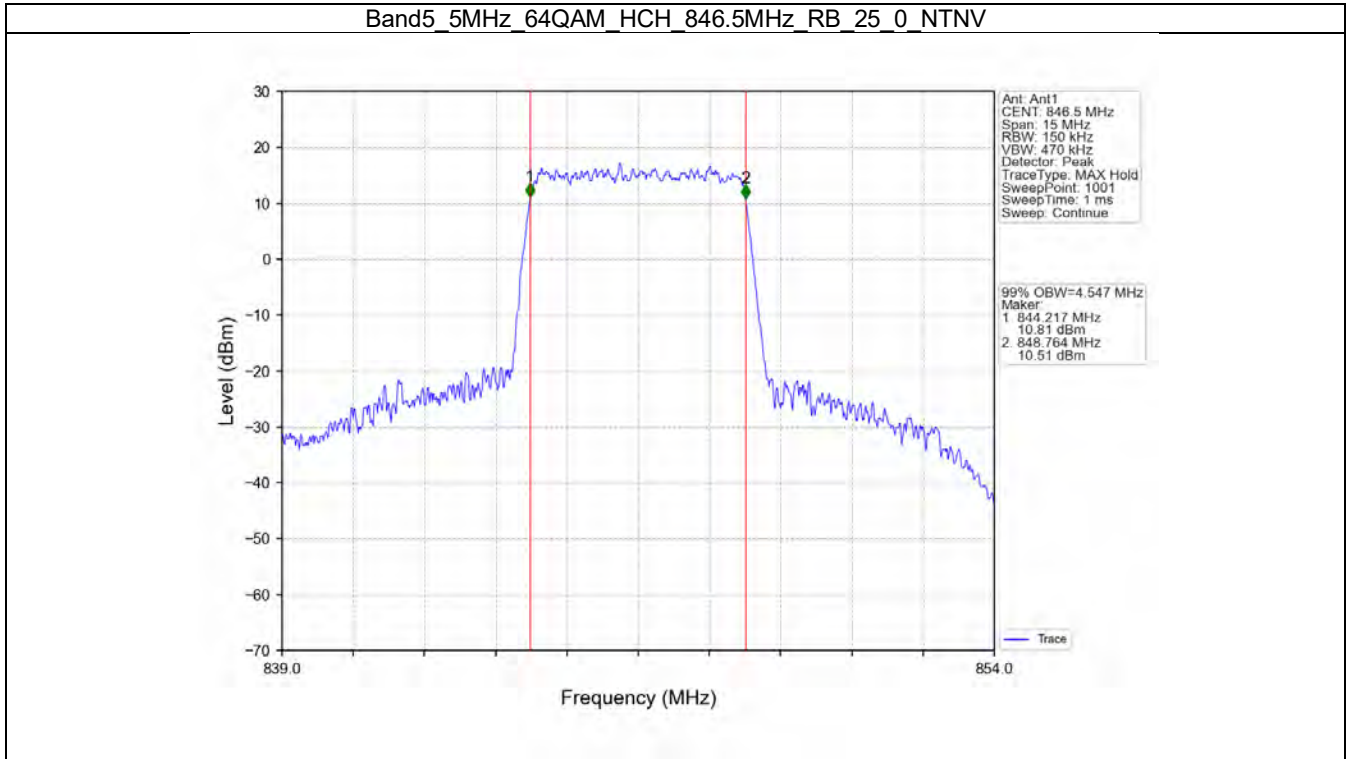
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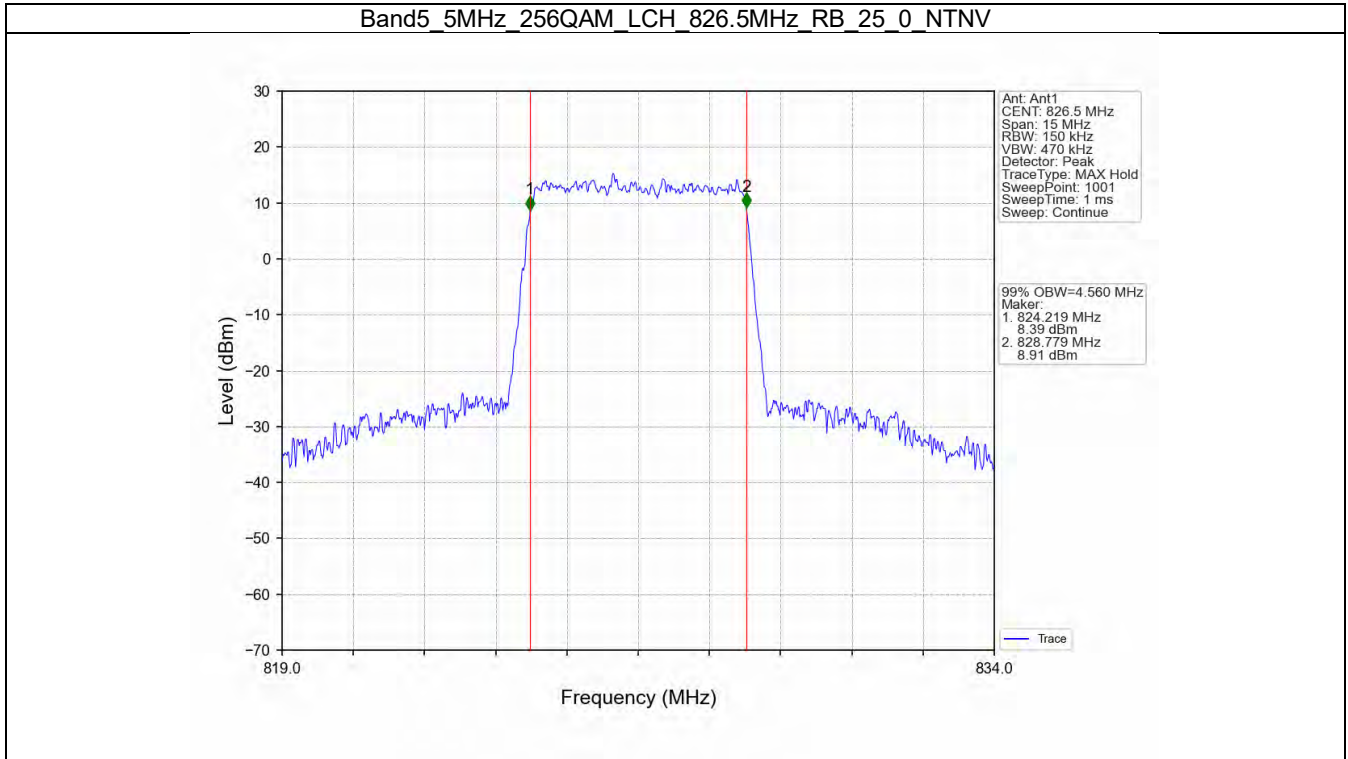
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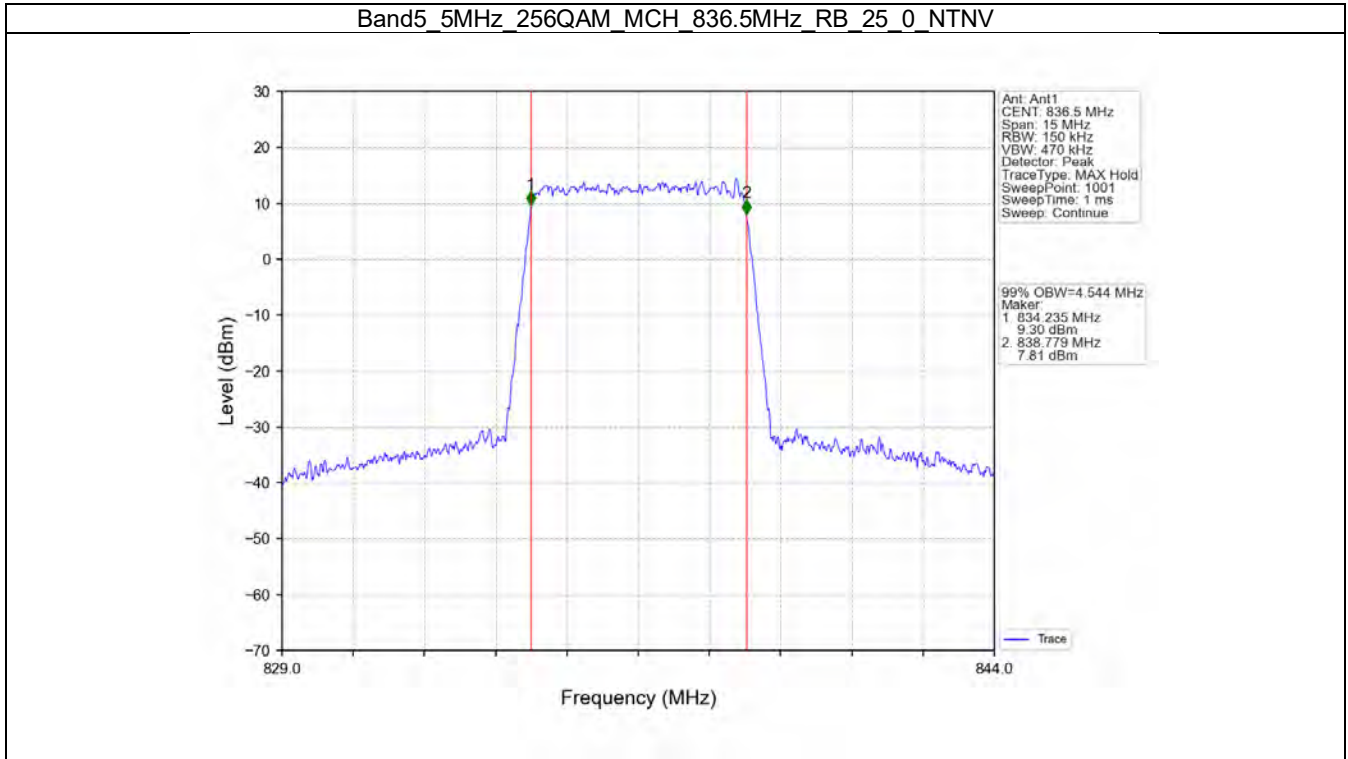
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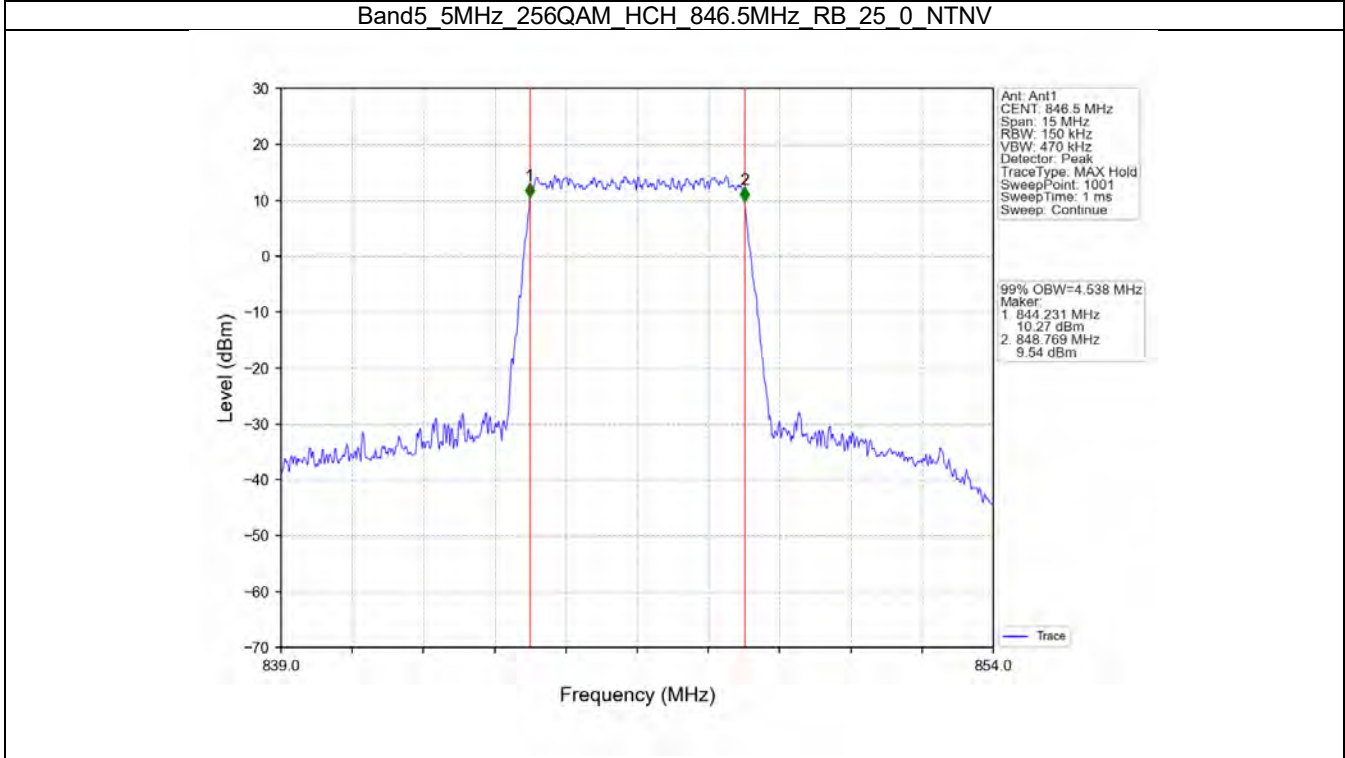
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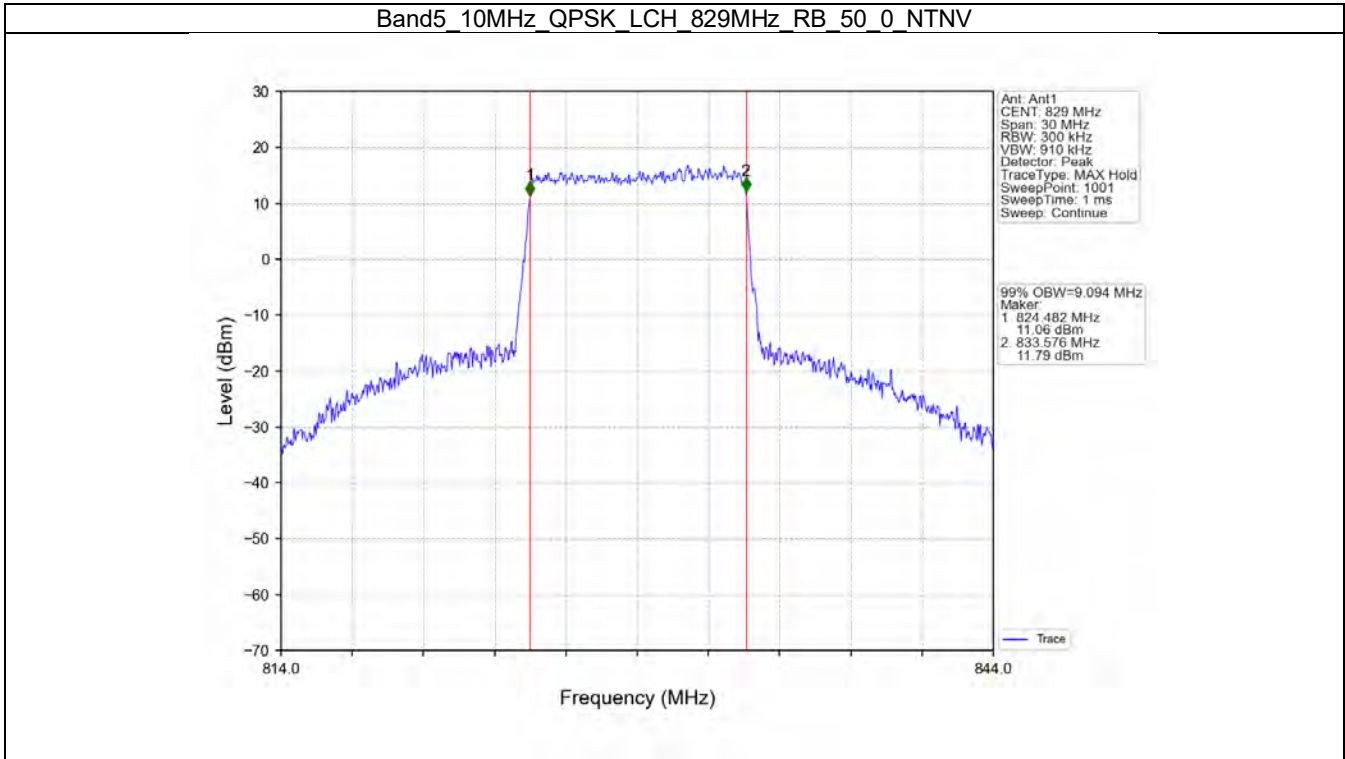
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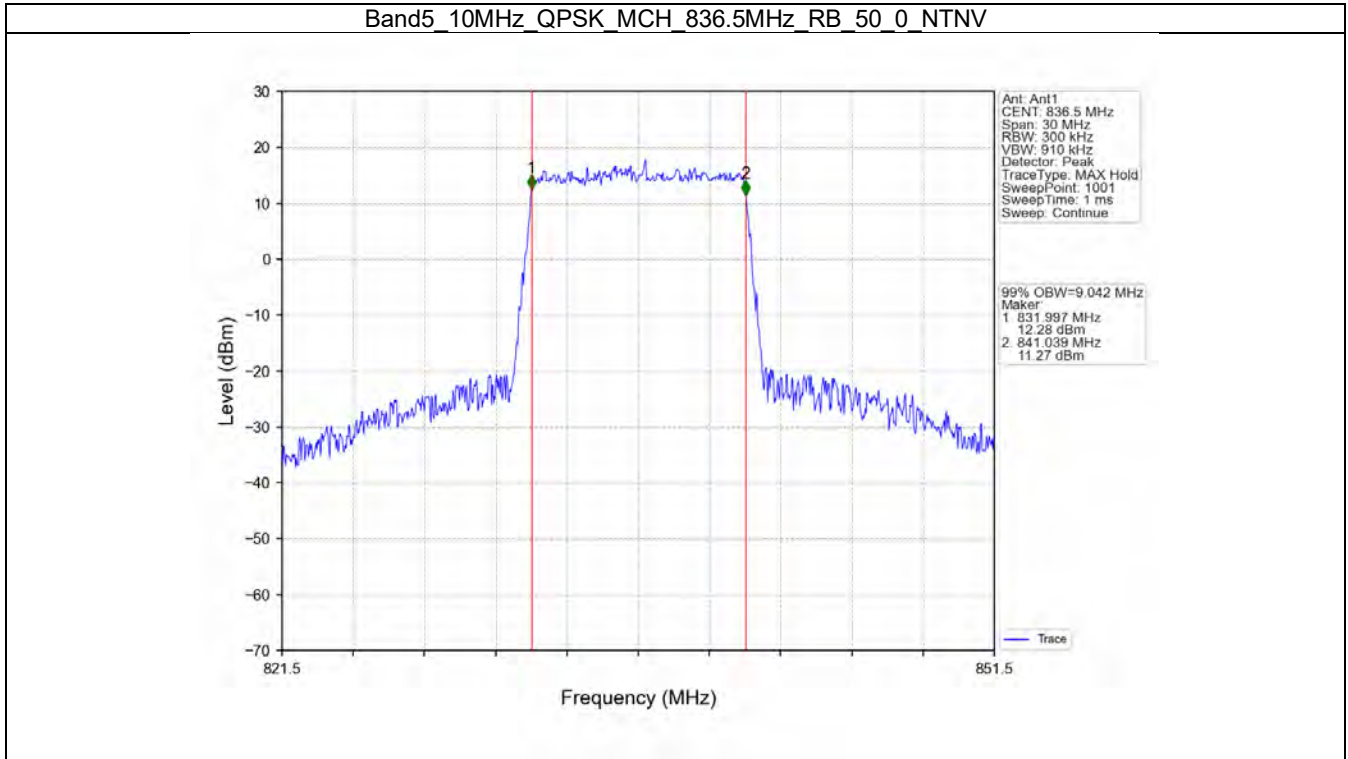
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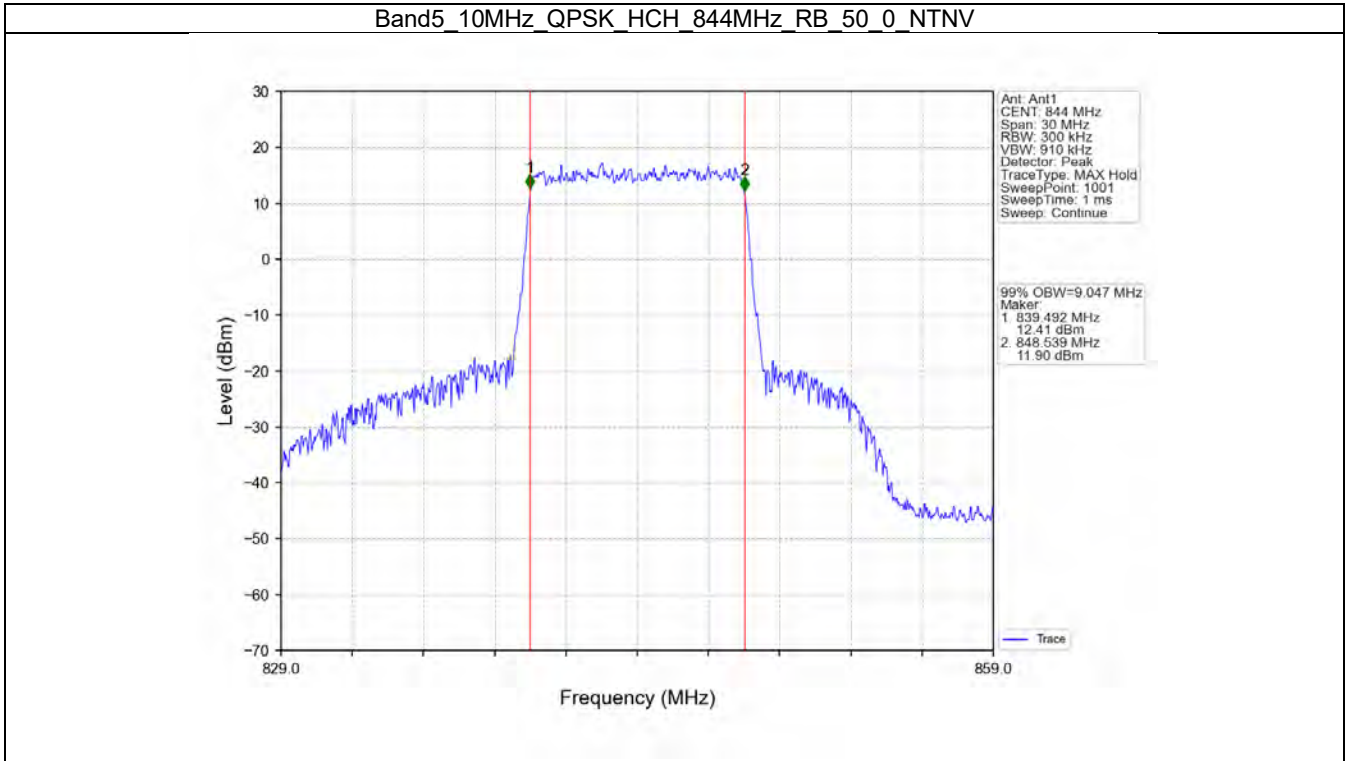
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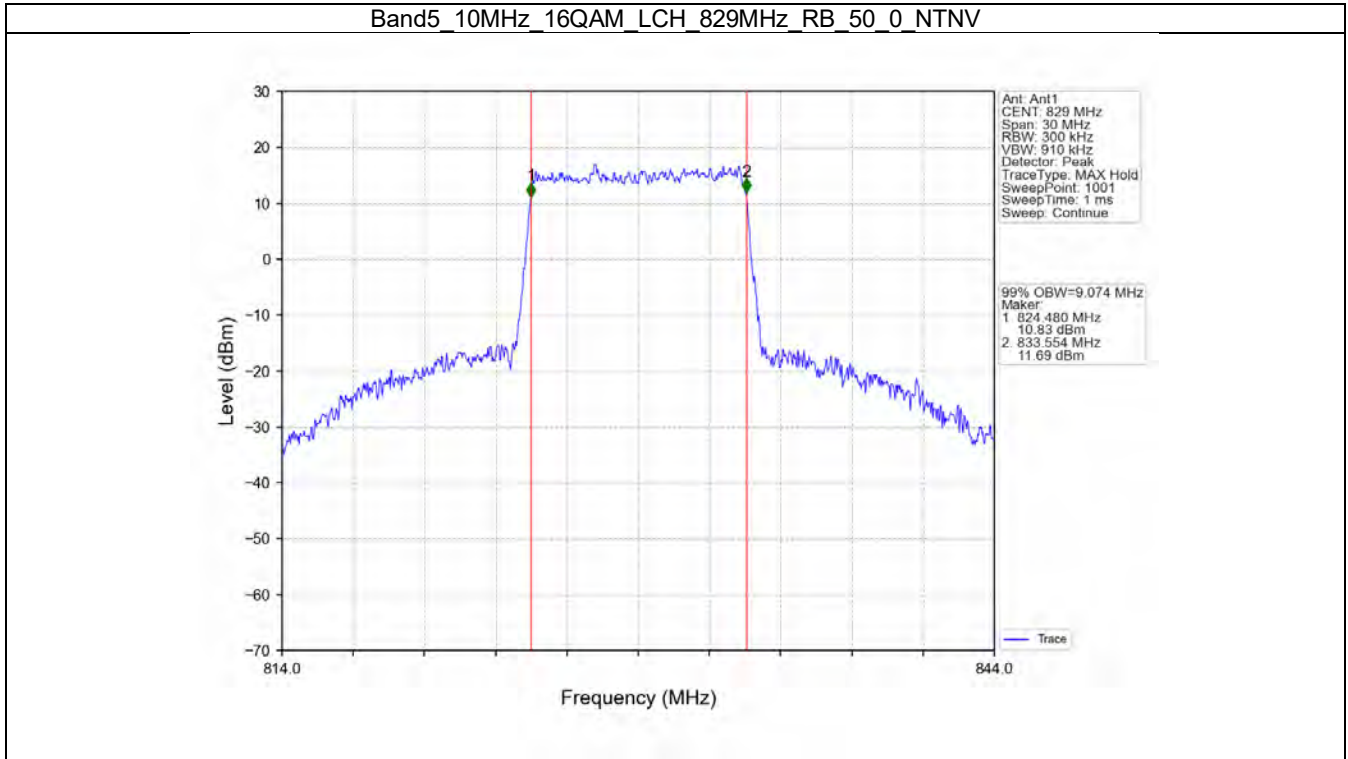
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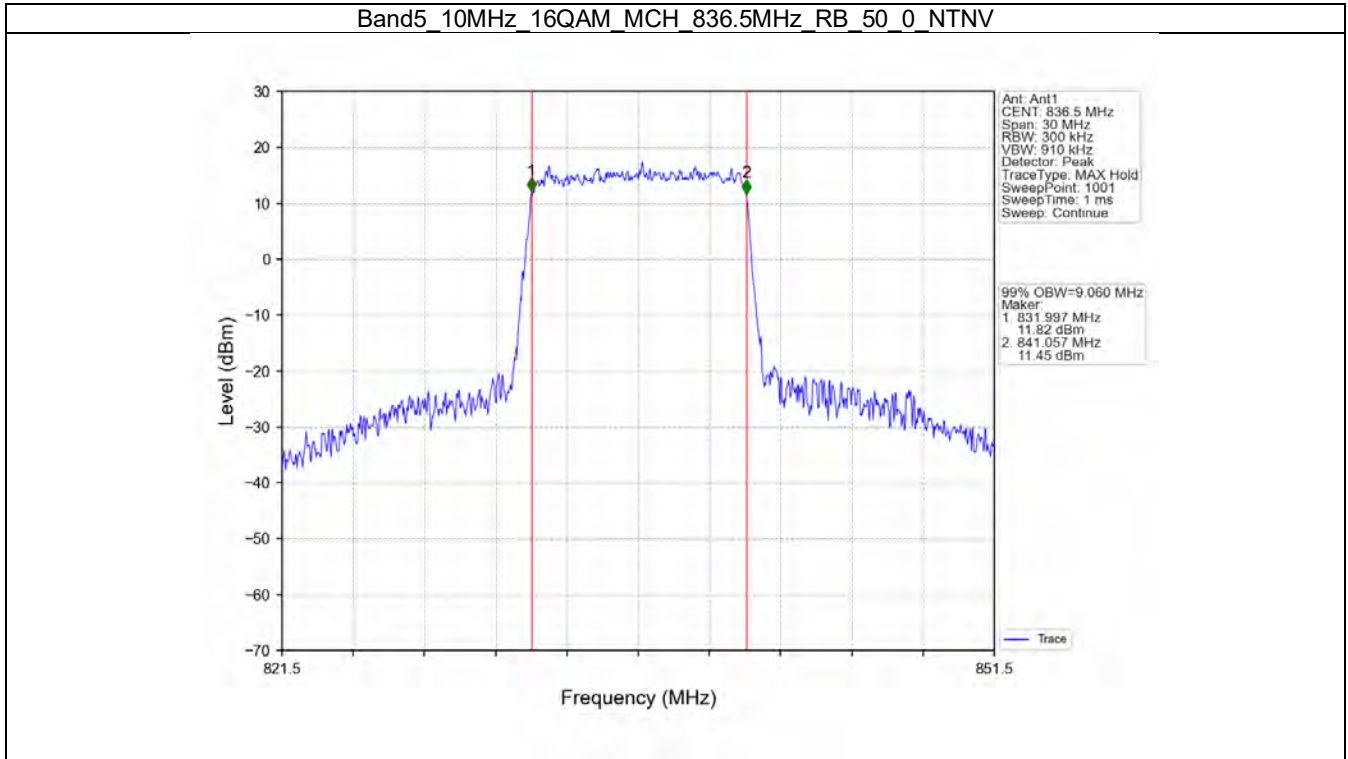
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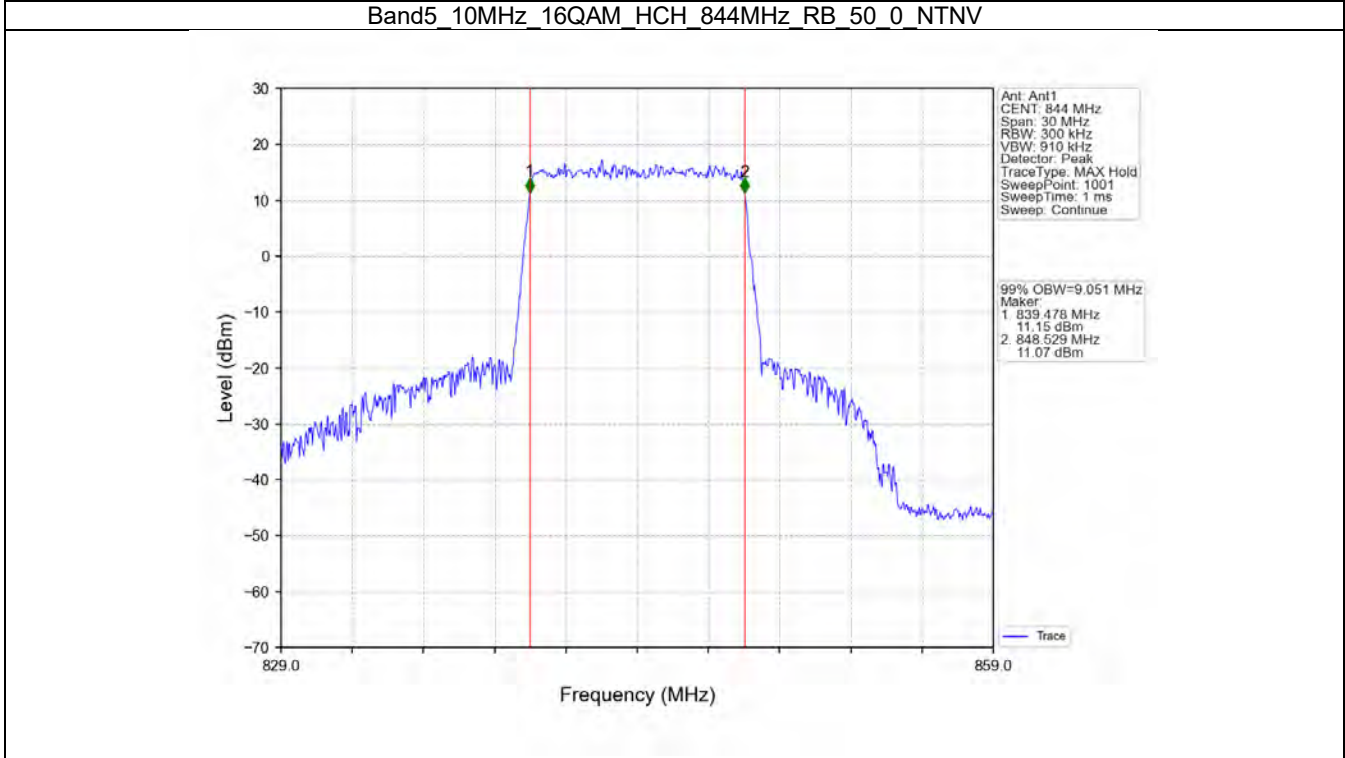
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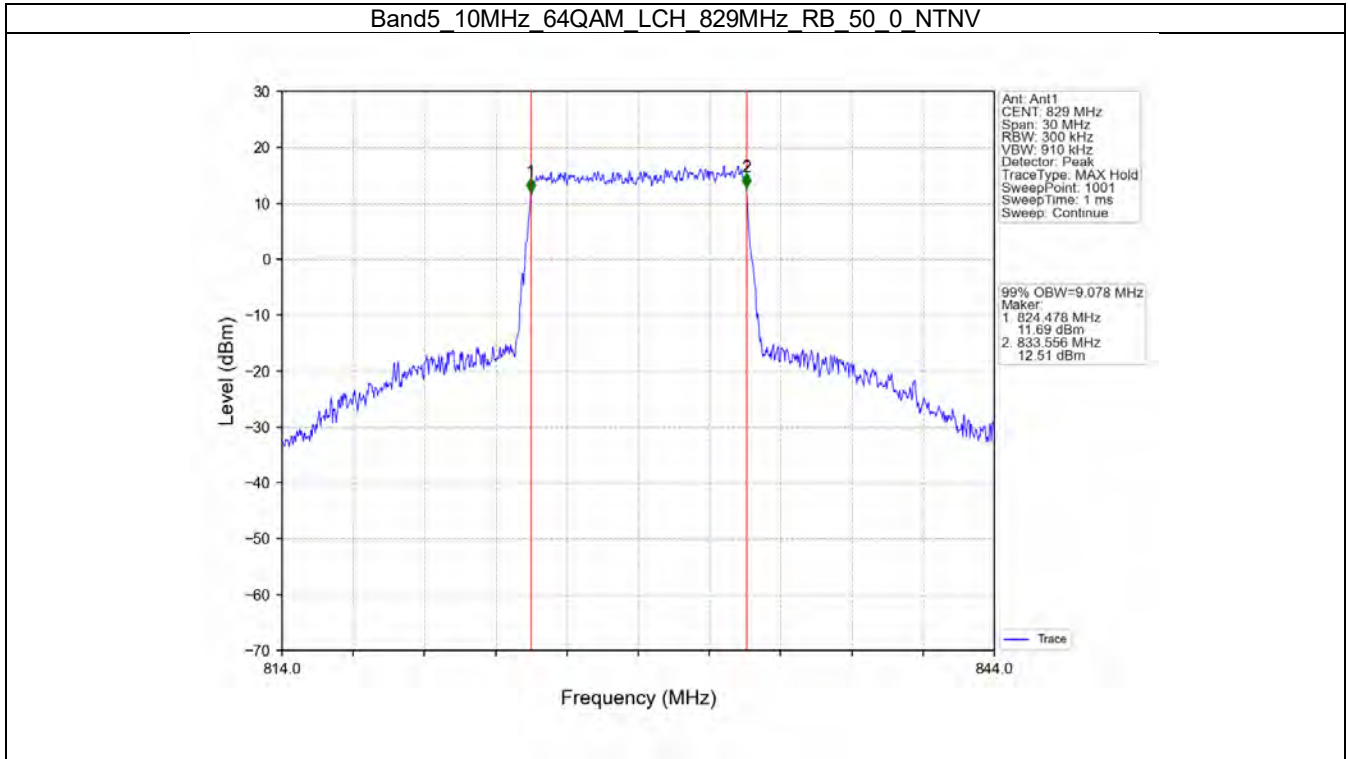
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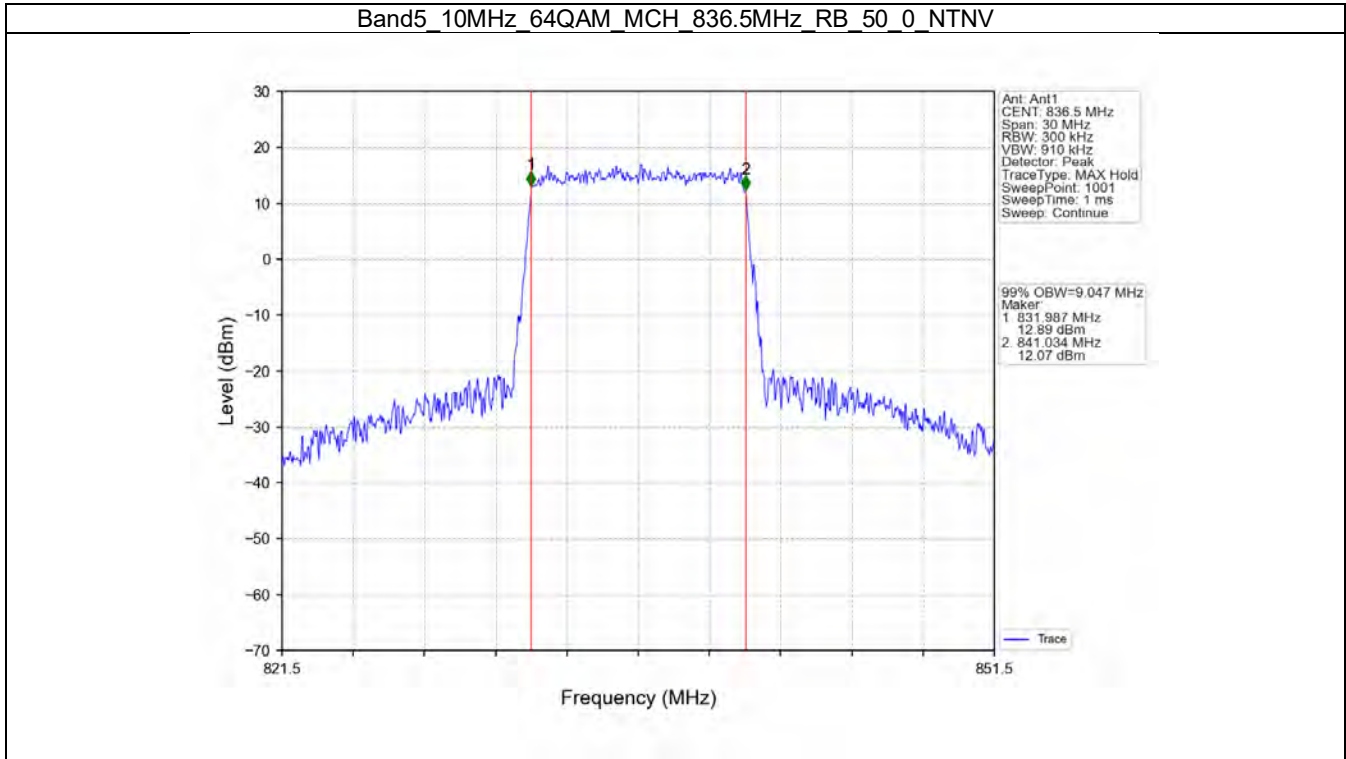
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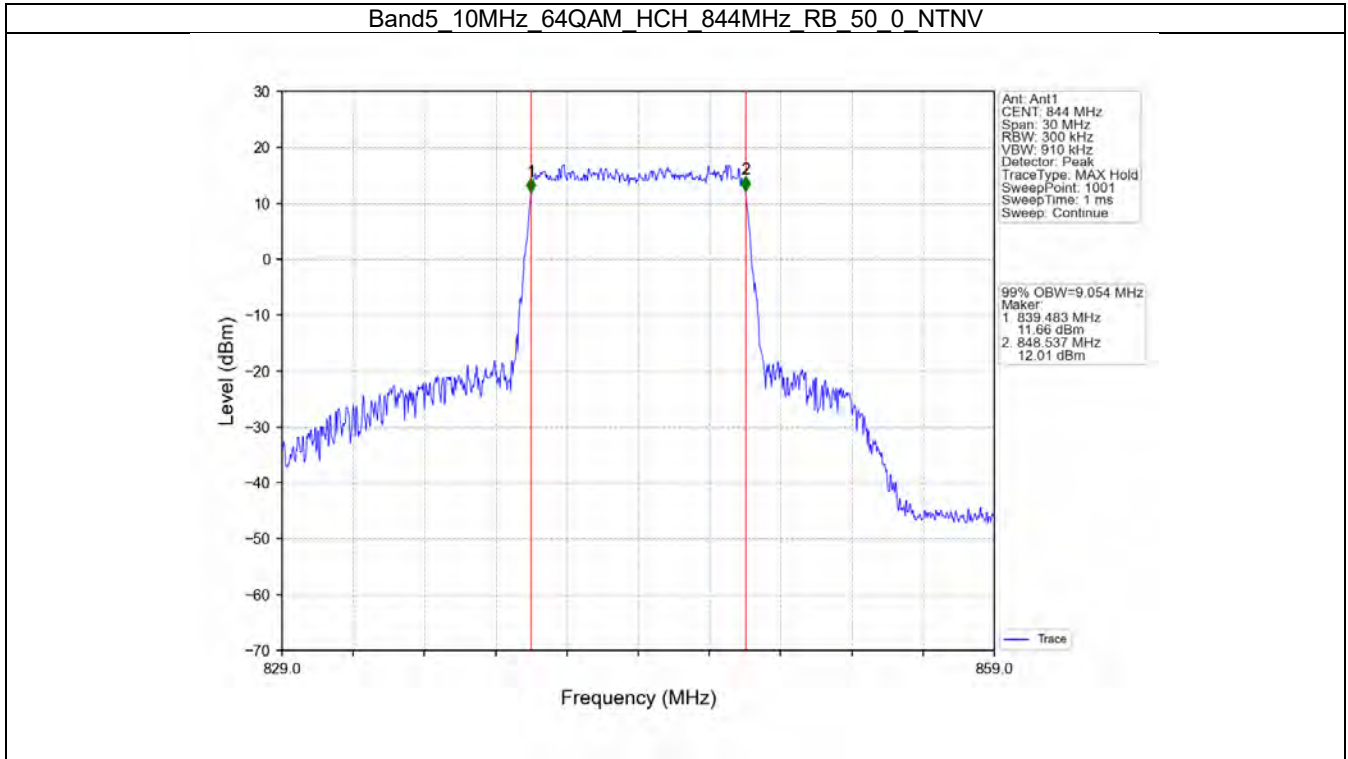
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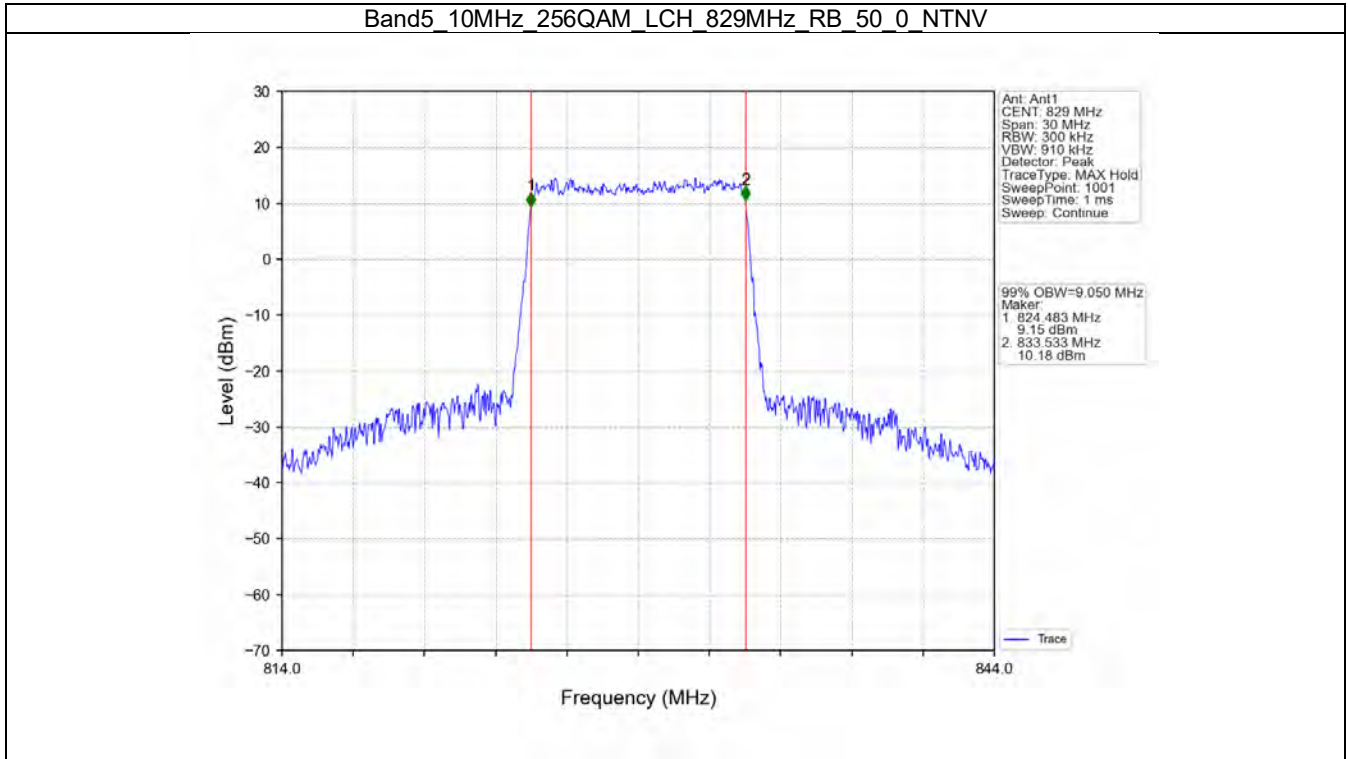
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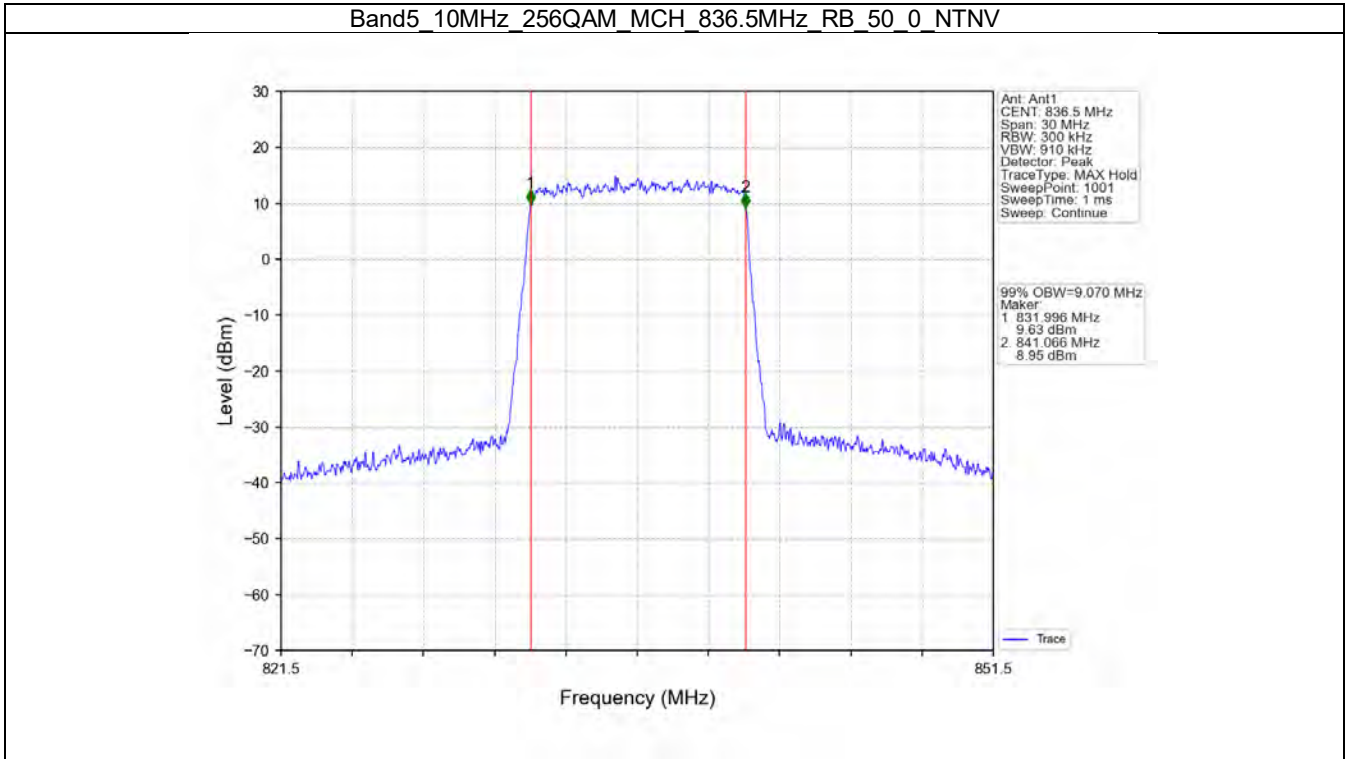
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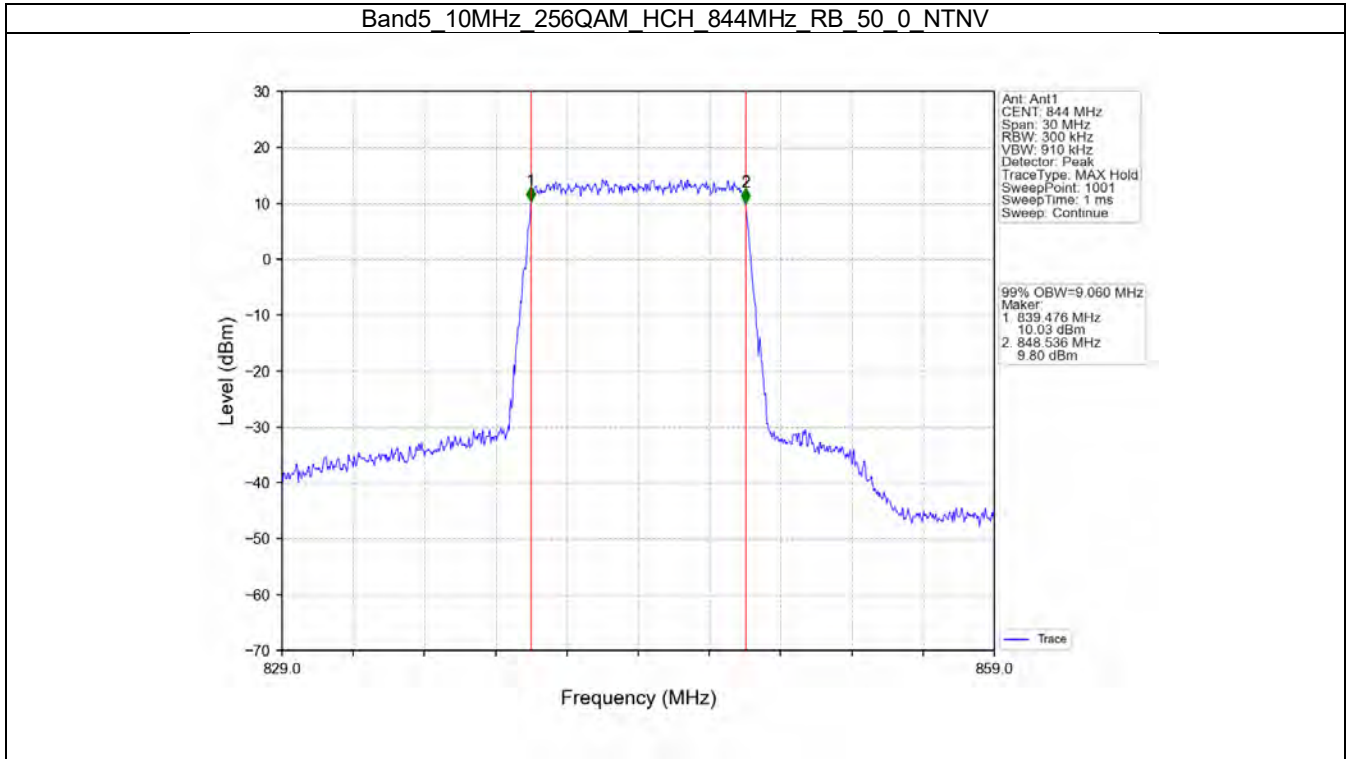
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### 3.2 Band5\_XDB

#### 3.2.1 Test Result

Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.335	/	Pass
		836.5	6	0	1.318	/	Pass
		848.3	6	0	1.318	/	Pass
	16QAM	824.7	6	0	1.294	/	Pass
		836.5	6	0	1.296	/	Pass
		848.3	6	0	1.307	/	Pass
	64QAM	824.7	6	0	1.354	/	Pass
		836.5	6	0	1.338	/	Pass
		848.3	6	0	1.340	/	Pass
	256QAM	824.7	6	0	1.347	/	Pass
		836.5	6	0	1.297	/	Pass
		848.3	6	0	1.334	/	Pass
3	QPSK	825.5	15	0	3.028	/	Pass
		836.5	15	0	3.003	/	Pass
		847.5	15	0	3.006	/	Pass
	16QAM	825.5	15	0	3.017	/	Pass
		836.5	15	0	3.025	/	Pass
		847.5	15	0	3.010	/	Pass
	64QAM	825.5	15	0	3.016	/	Pass
		836.5	15	0	3.014	/	Pass
		847.5	15	0	3.012	/	Pass
	256QAM	825.5	15	0	3.011	/	Pass
		836.5	15	0	3.021	/	Pass
		847.5	15	0	3.013	/	Pass
5	QPSK	826.5	25	0	5.052	/	Pass
		836.5	25	0	5.070	/	Pass
		846.5	25	0	5.108	/	Pass
	16QAM	826.5	25	0	5.055	/	Pass
		836.5	25	0	5.053	/	Pass
		846.5	25	0	5.108	/	Pass
	64QAM	826.5	25	0	5.046	/	Pass
		836.5	25	0	5.025	/	Pass
		846.5	25	0	5.041	/	Pass
	256QAM	826.5	25	0	5.025	/	Pass
		836.5	25	0	5.052	/	Pass
		846.5	25	0	5.085	/	Pass
10	QPSK	829	50	0	10.050	/	Pass
		836.5	50	0	9.946	/	Pass
		844	50	0	9.915	/	Pass



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	16QAM	829	50	0	9.964	/	Pass
		836.5	50	0	9.939	/	Pass
		844	50	0	10.024	/	Pass
	64QAM	829	50	0	9.972	/	Pass
		836.5	50	0	9.969	/	Pass
		844	50	0	10.035	/	Pass
	256QAM	829	50	0	9.968	/	Pass
		836.5	50	0	9.945	/	Pass
		844	50	0	9.982	/	Pass



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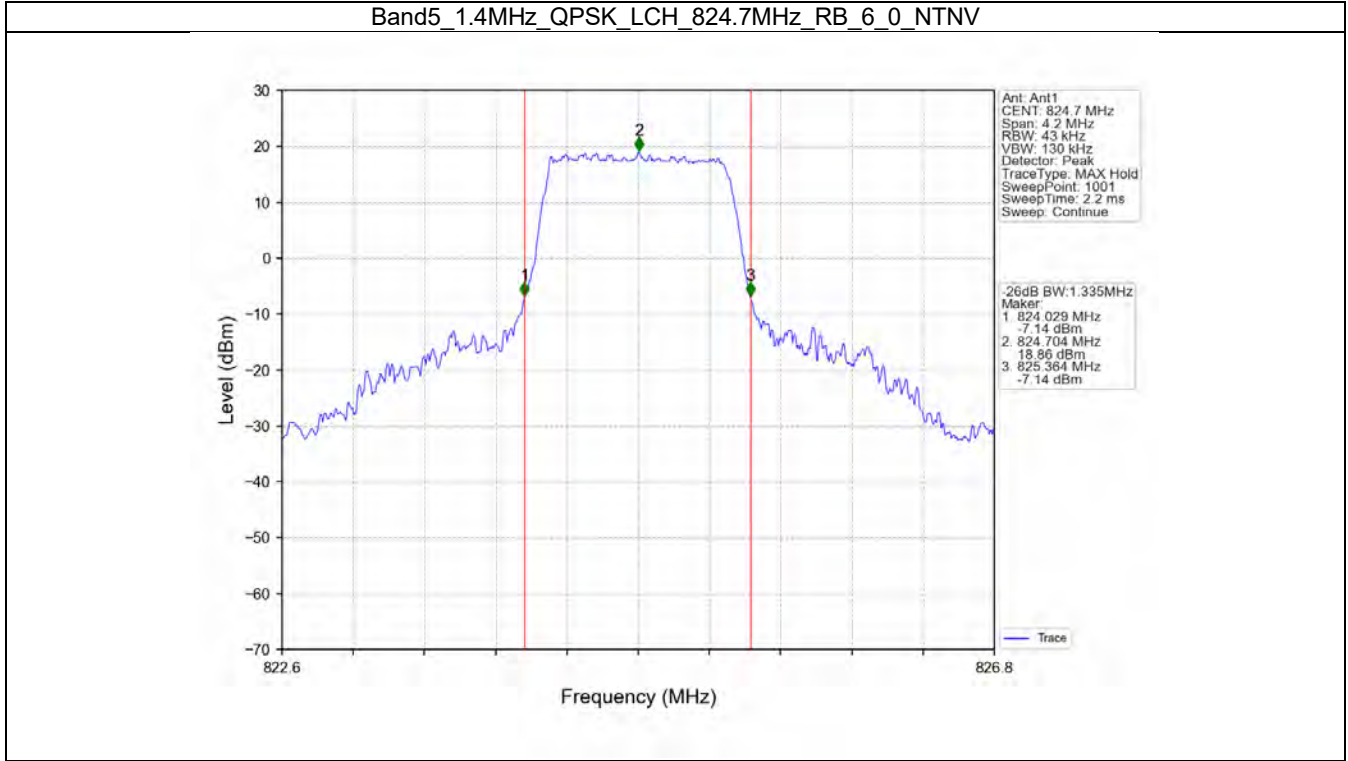
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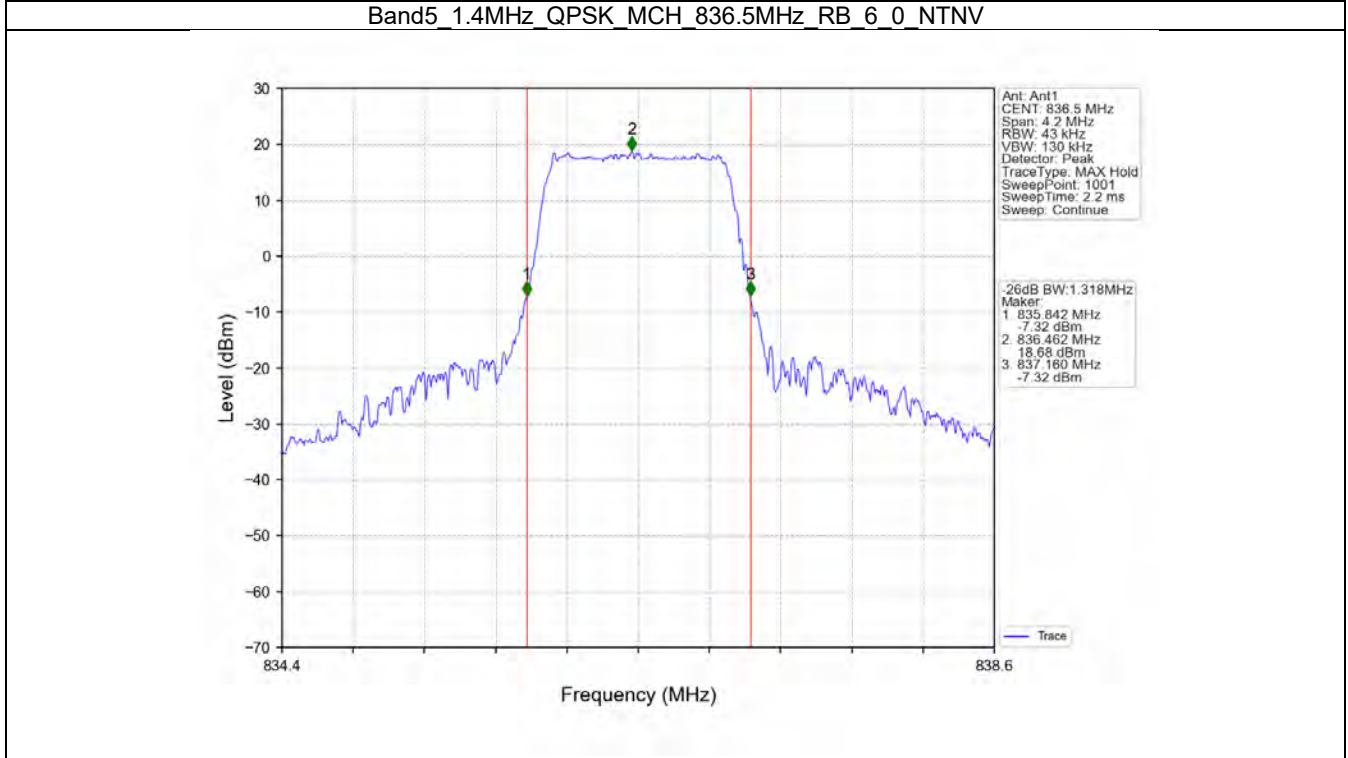
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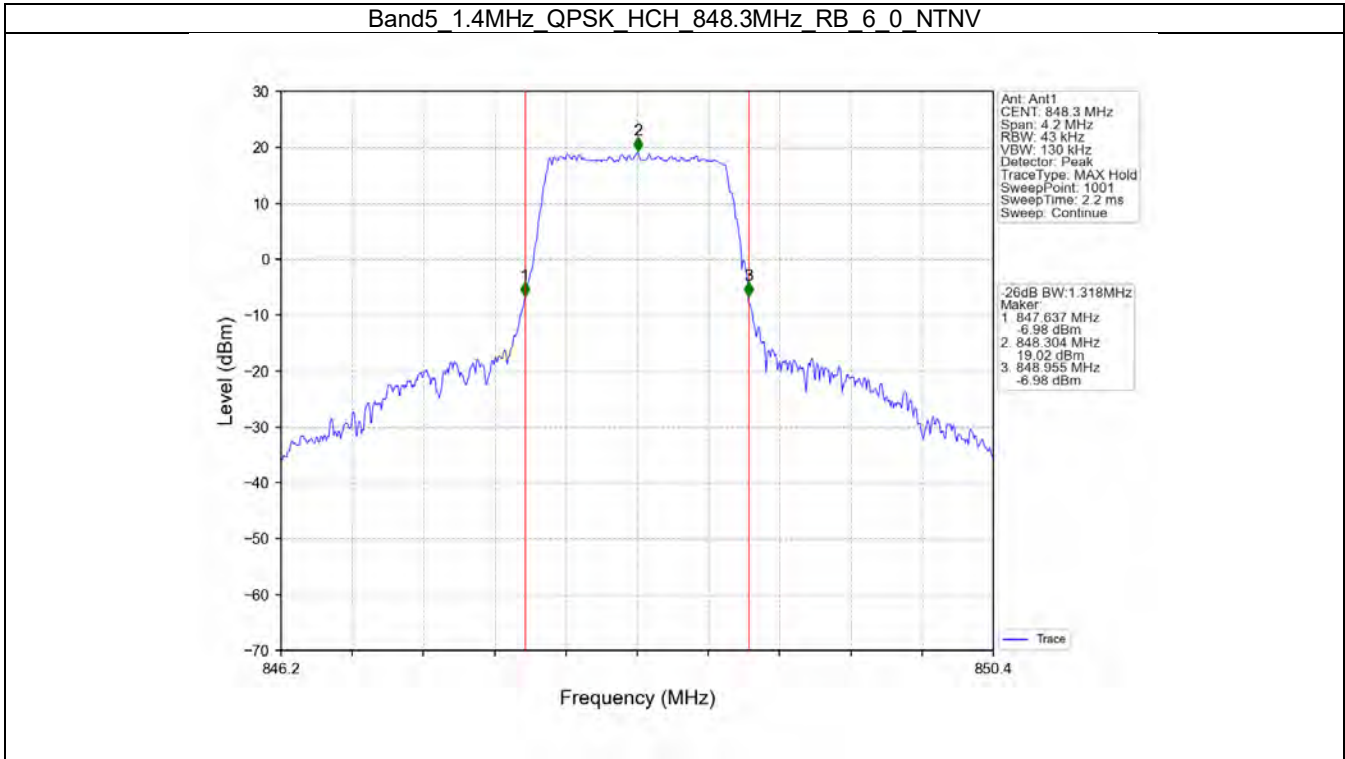
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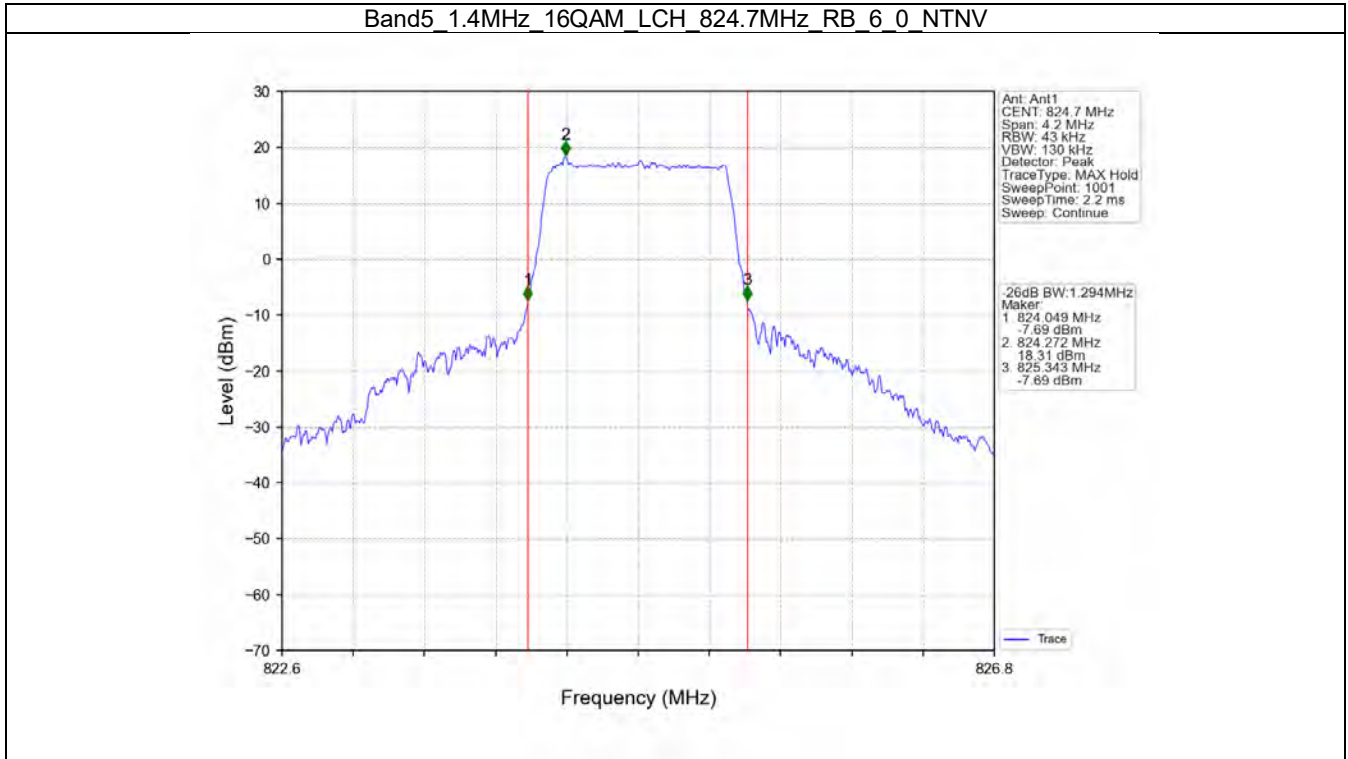
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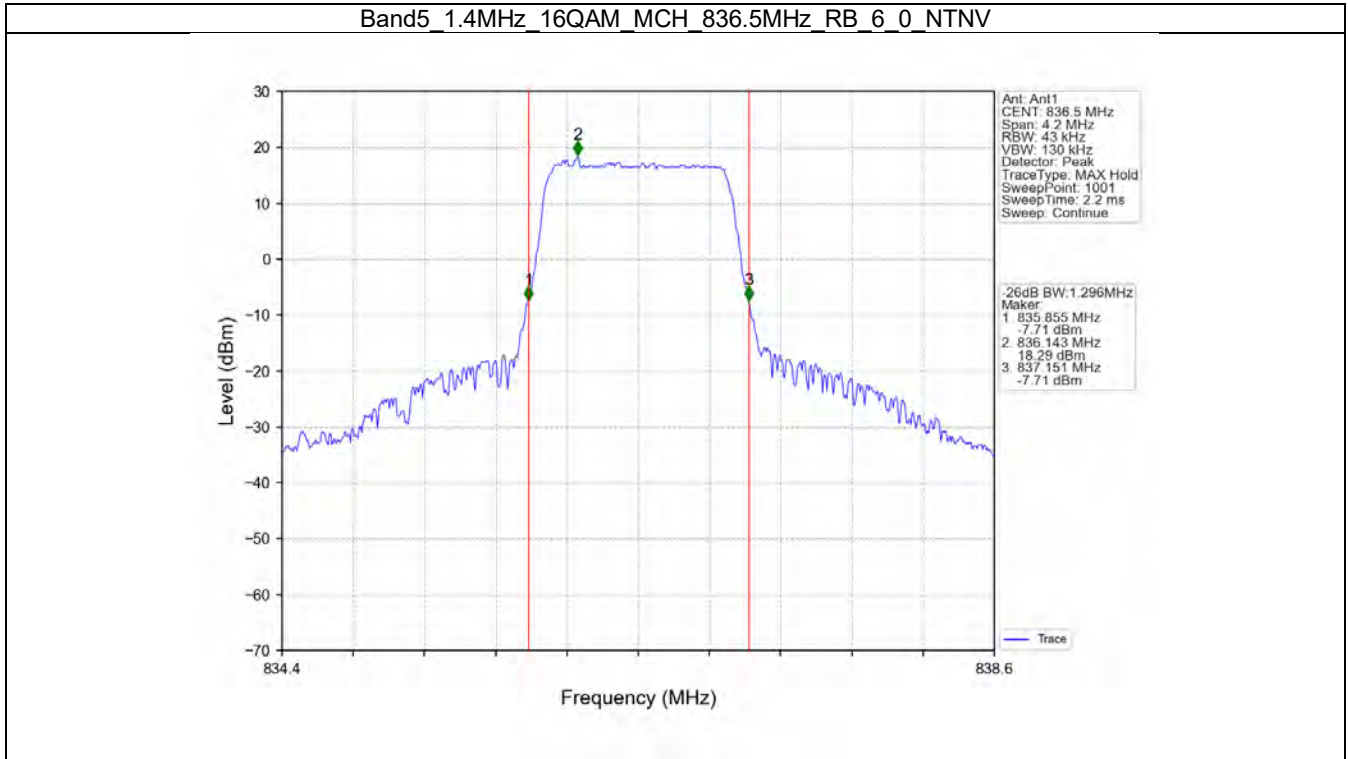
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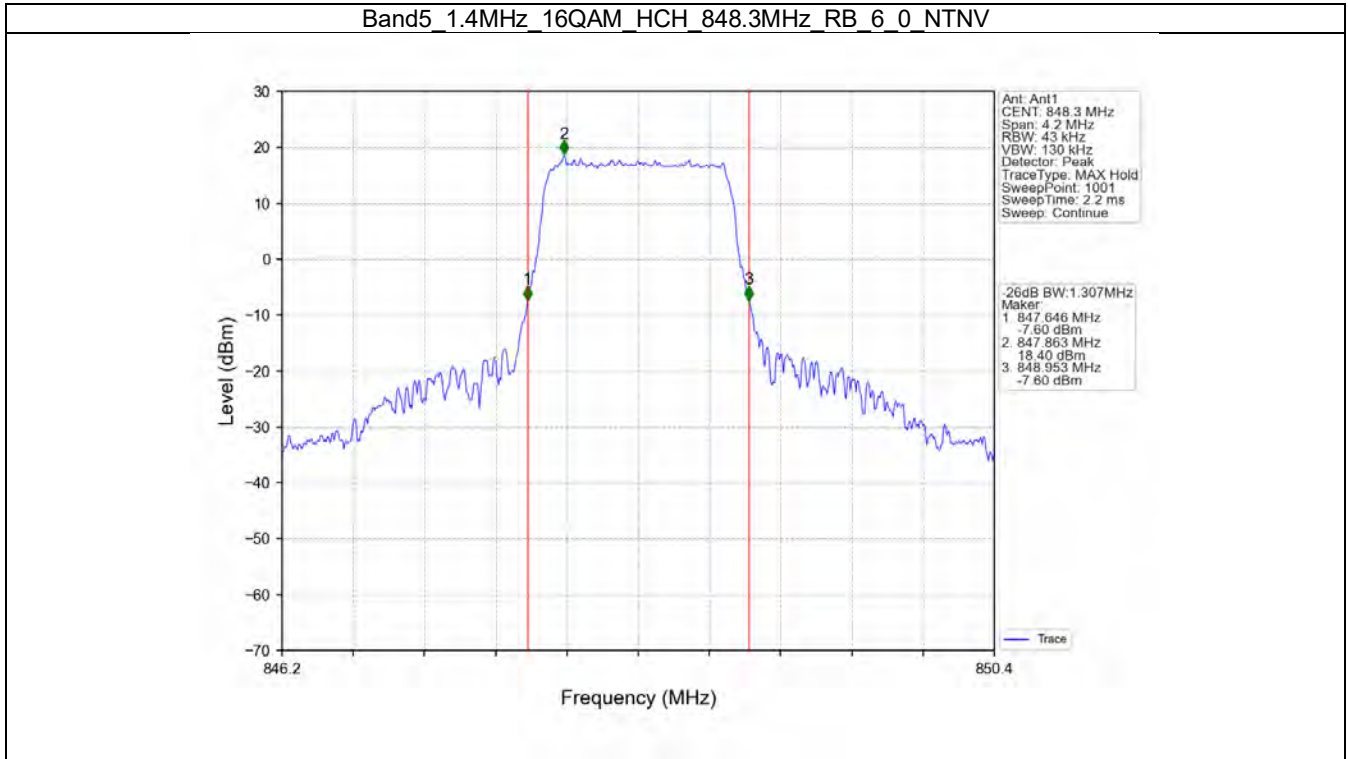
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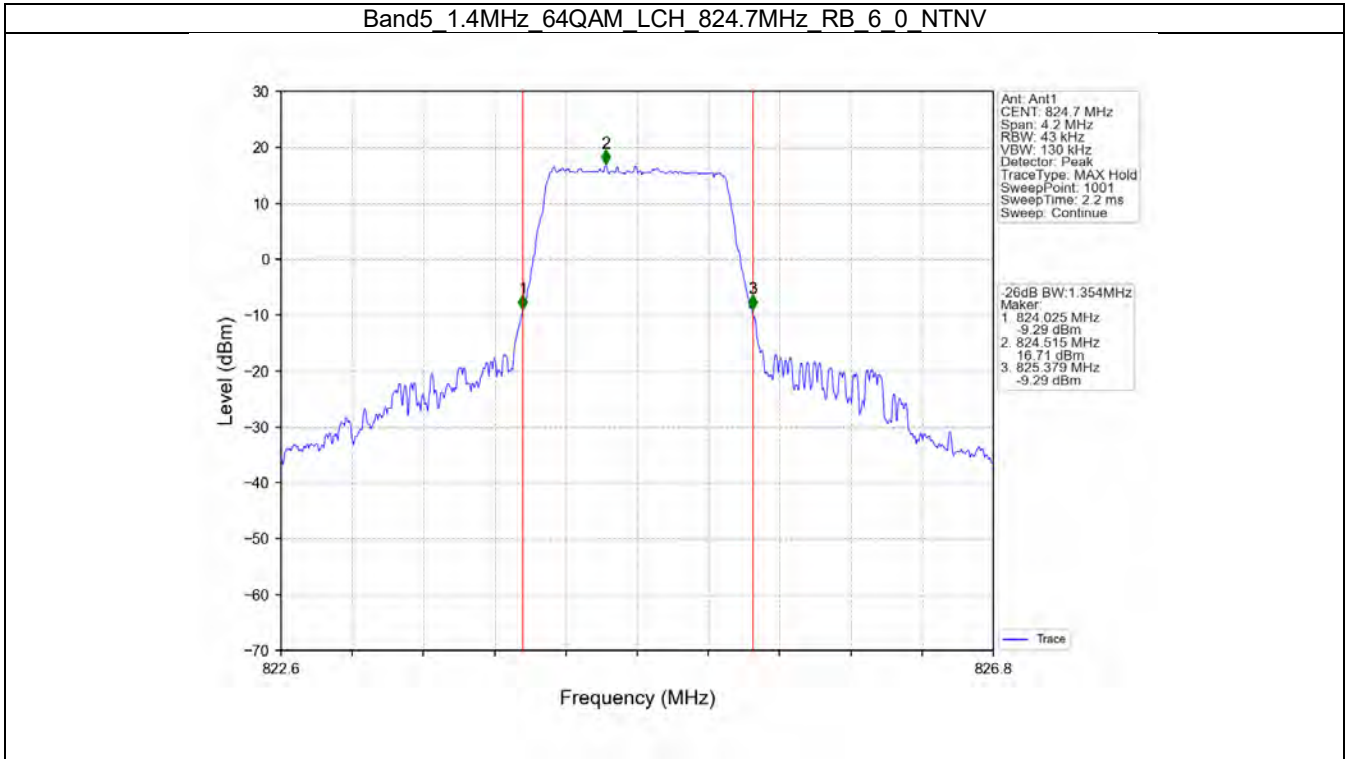
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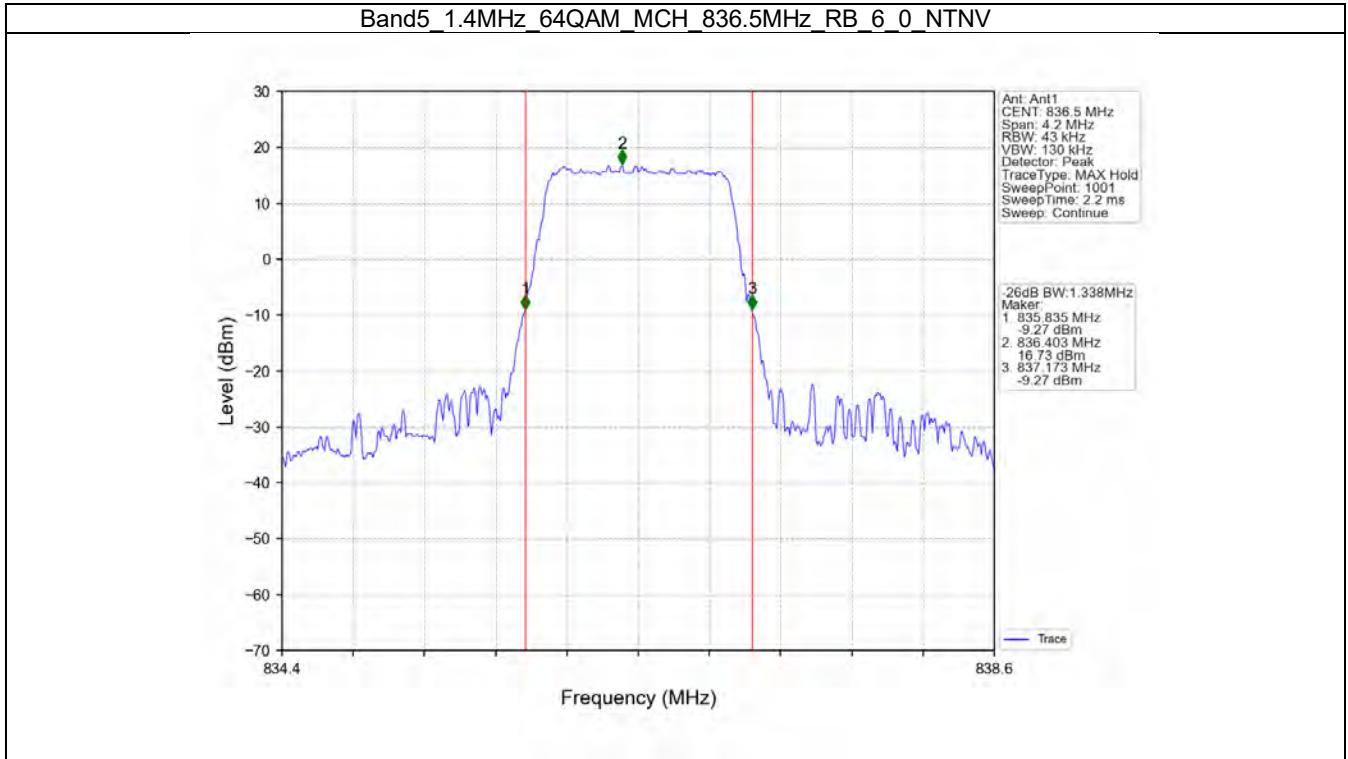
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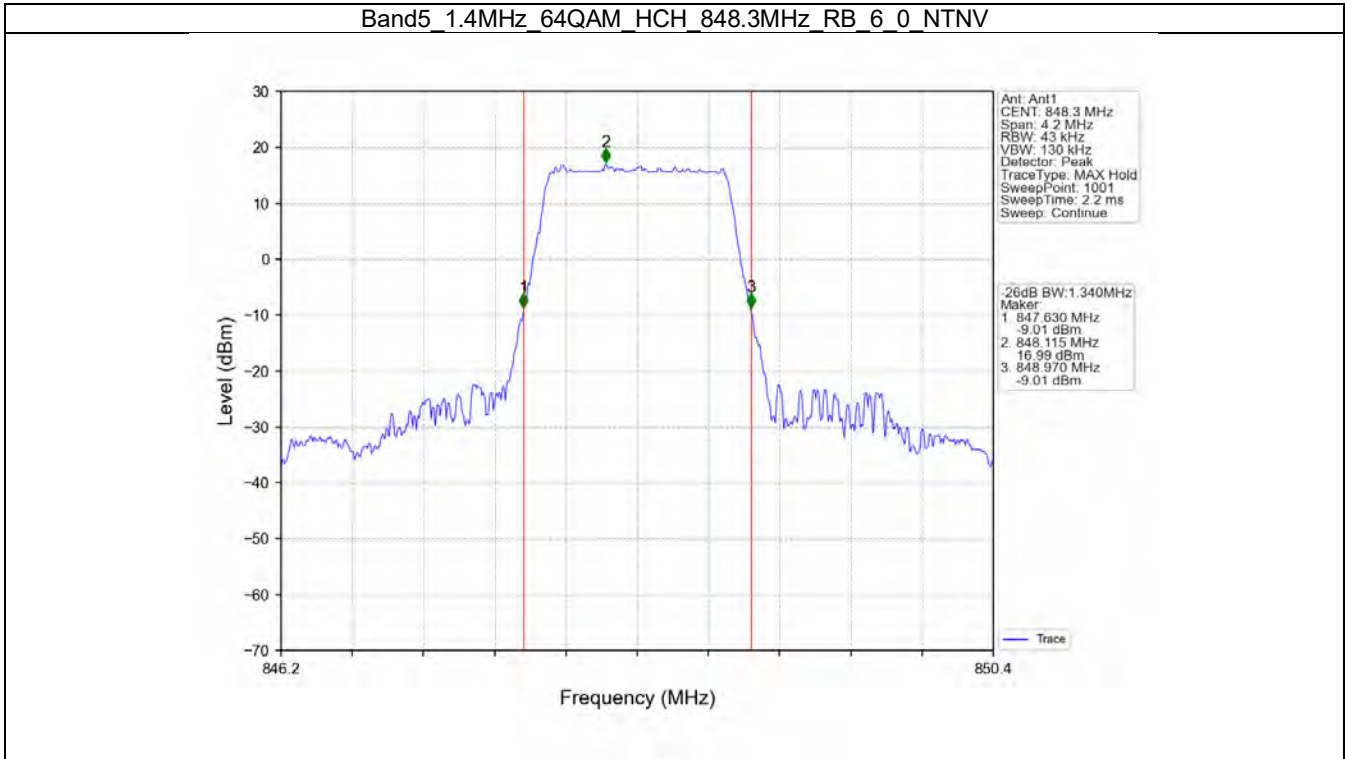
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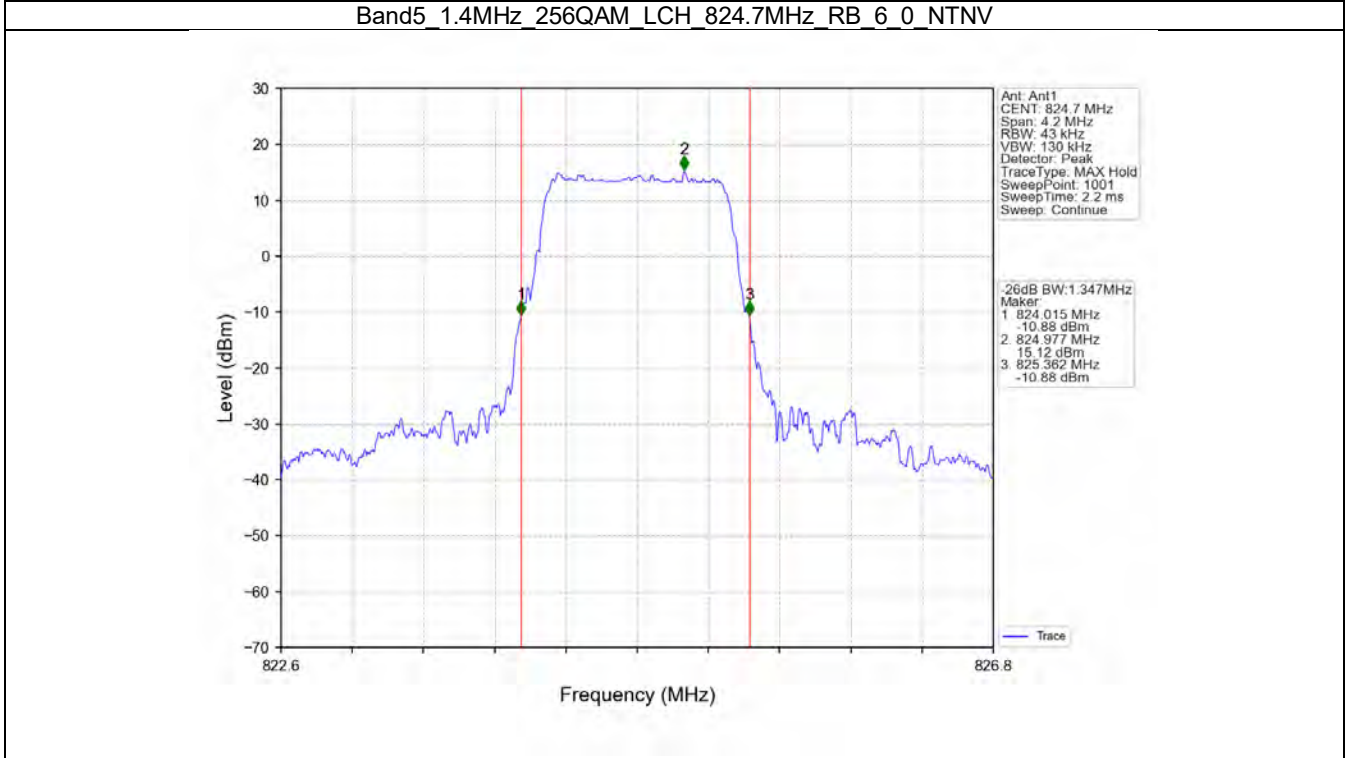
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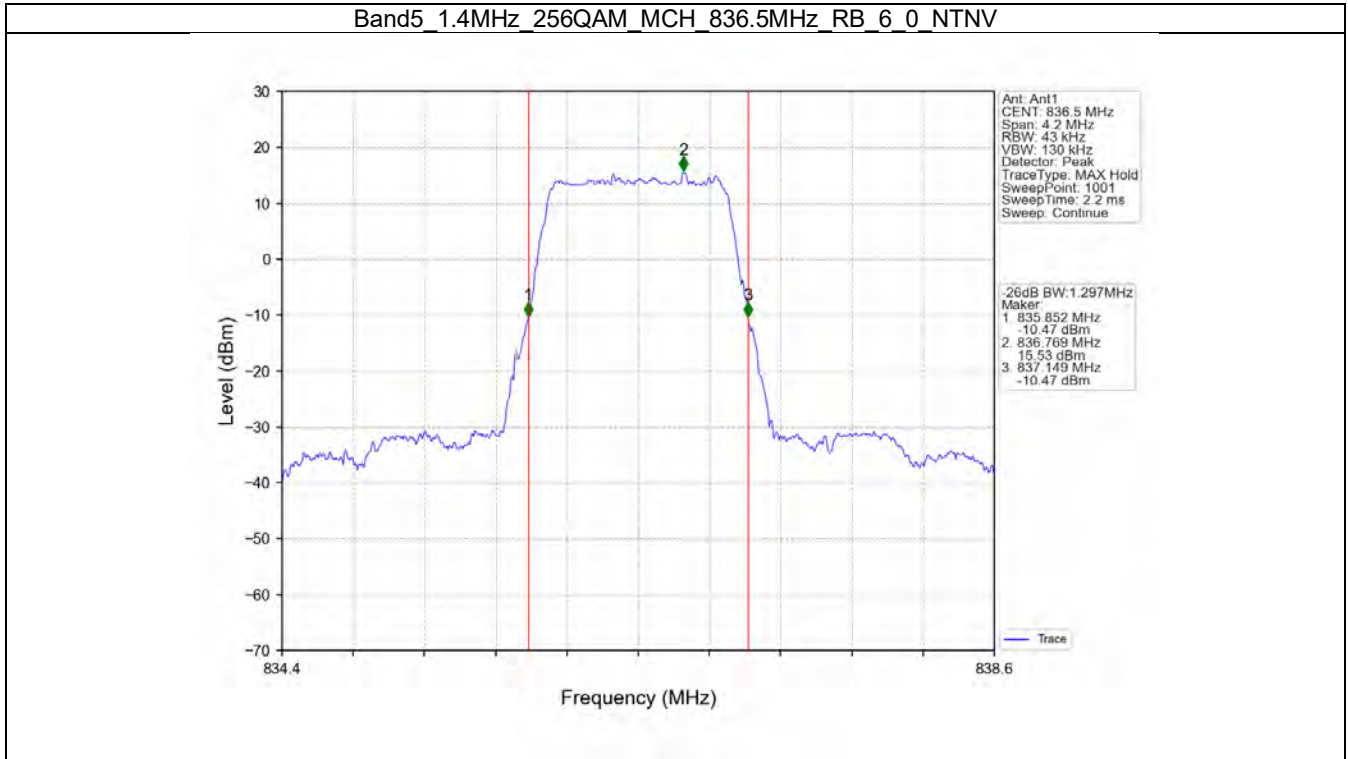
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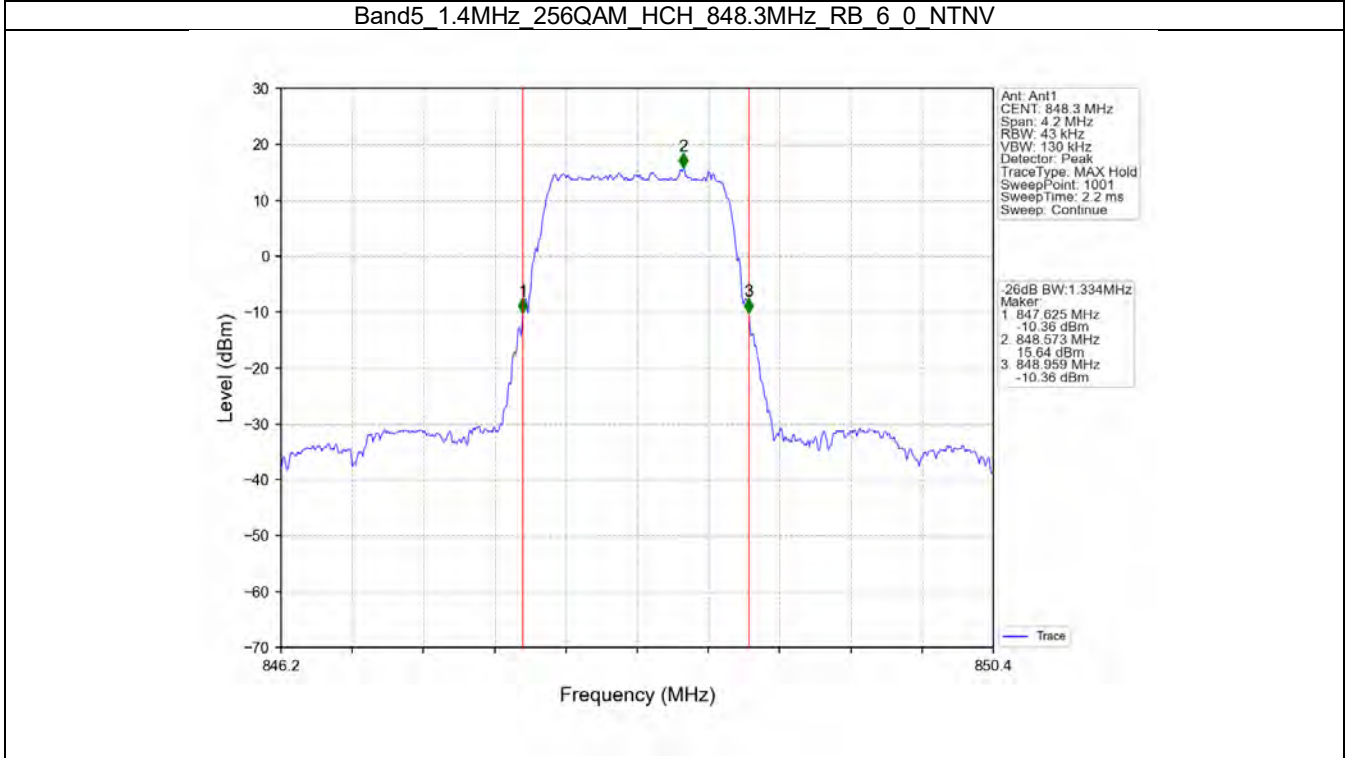
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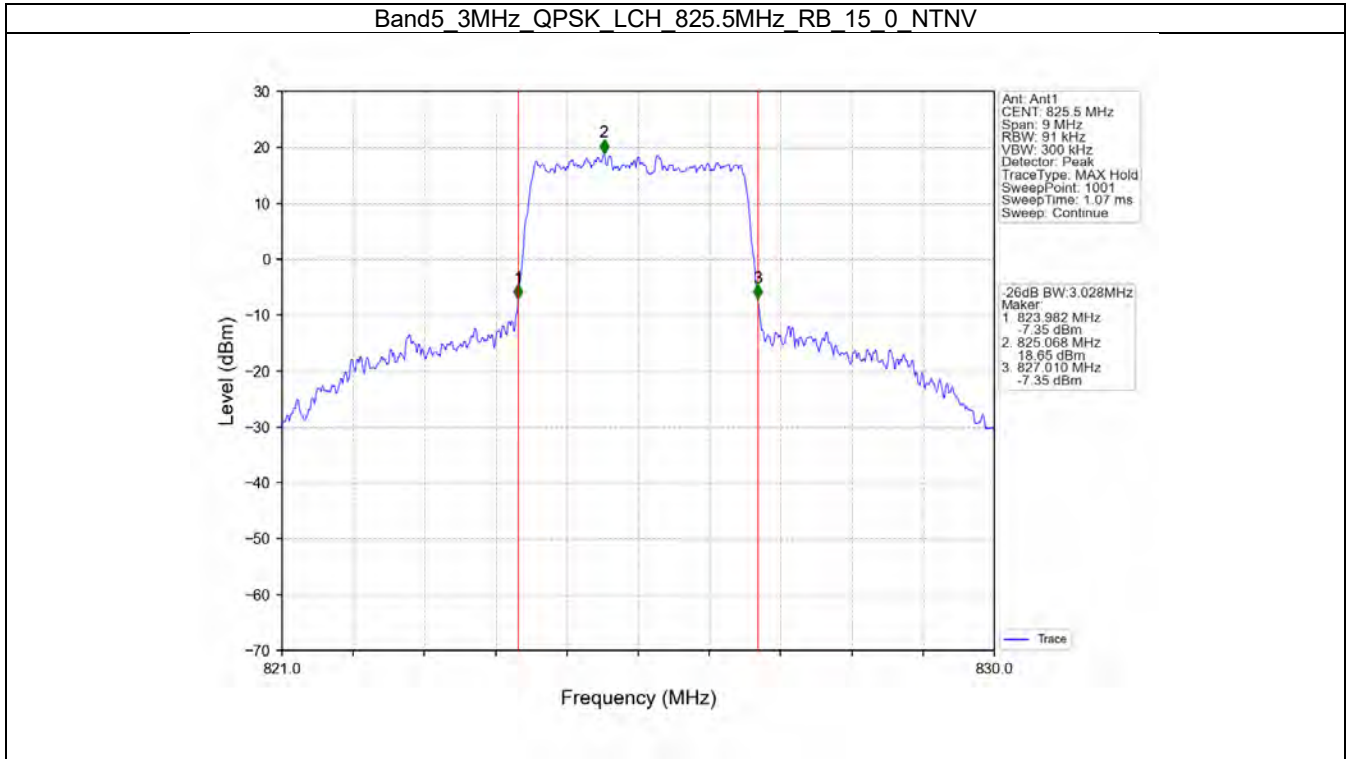
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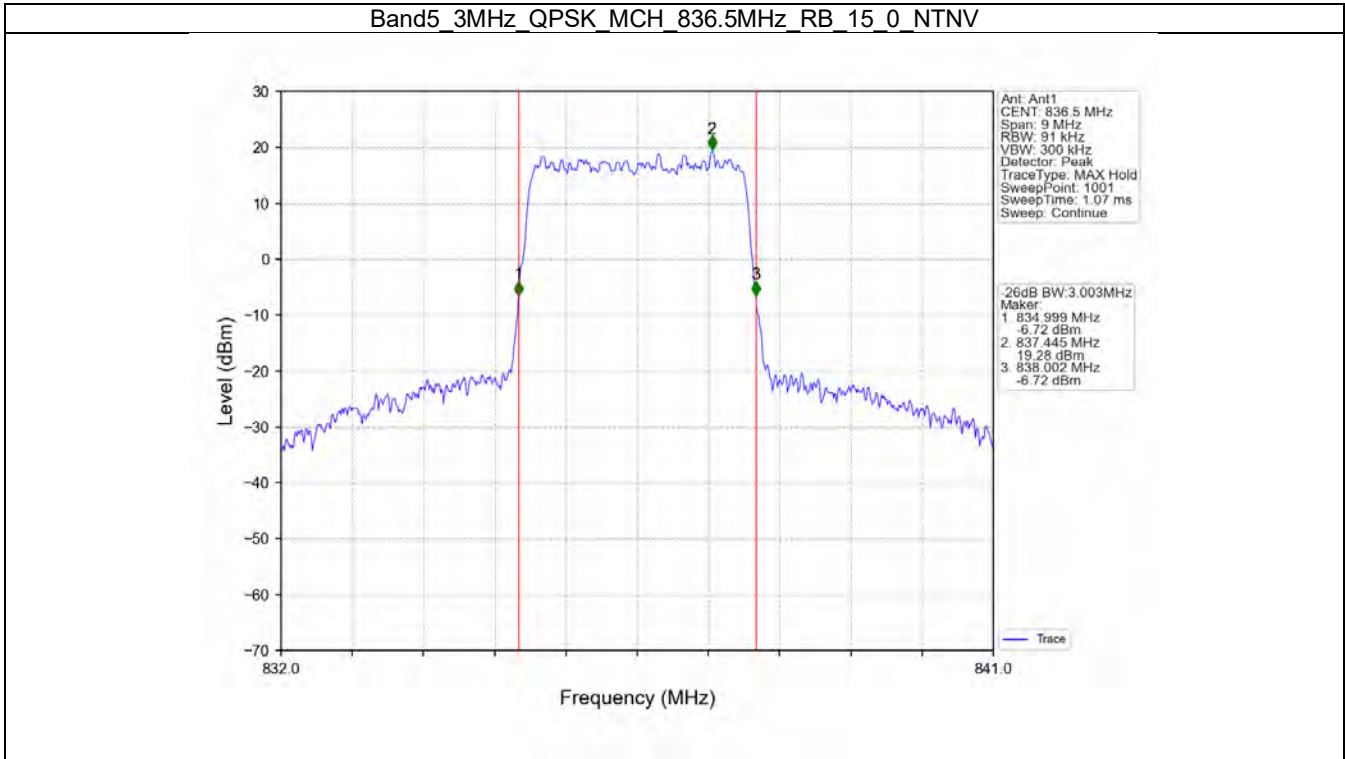
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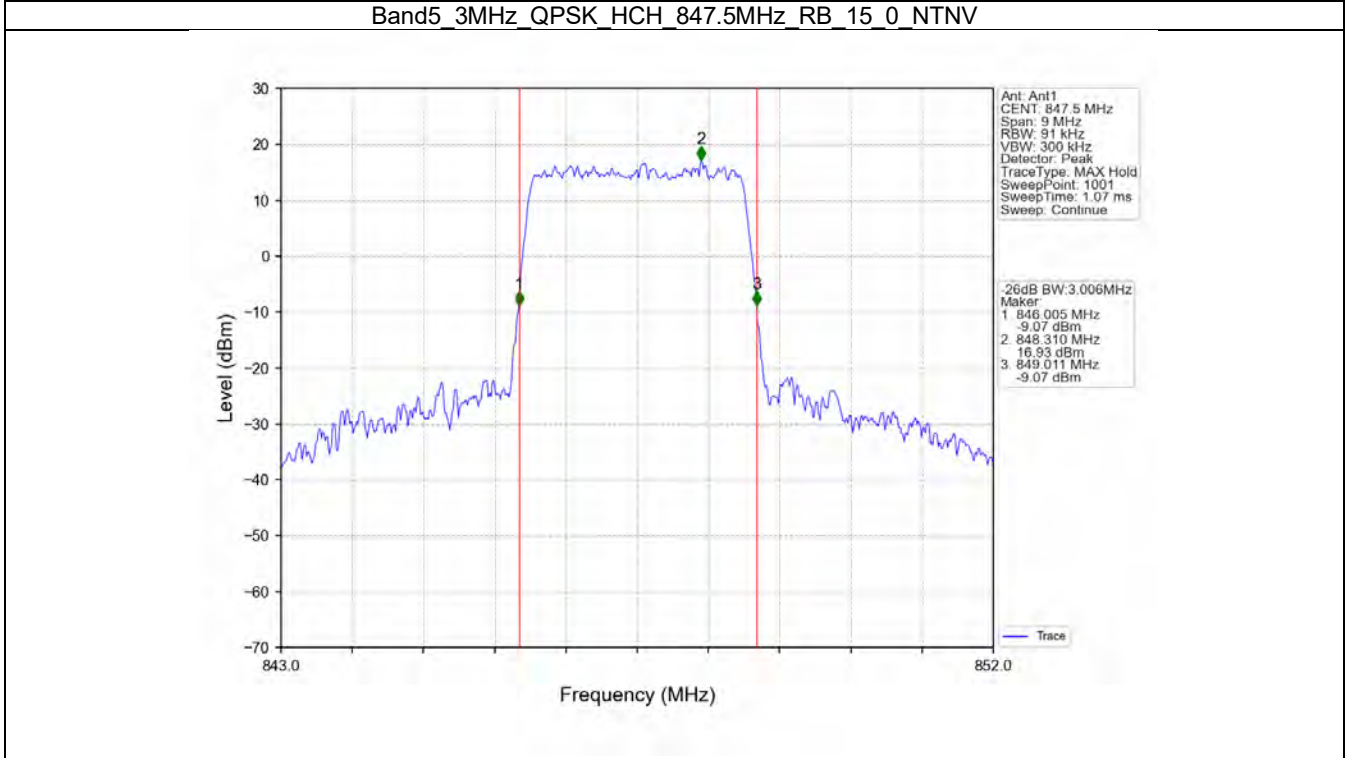
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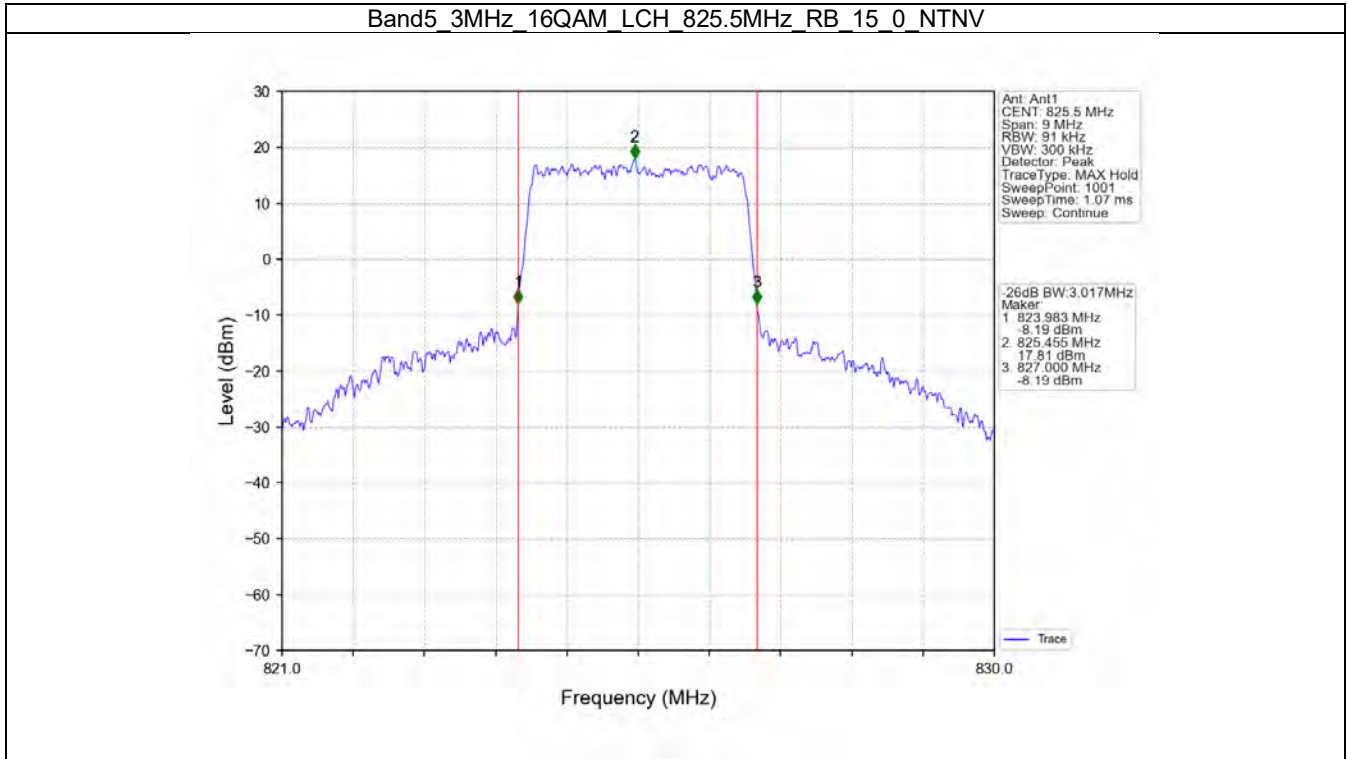
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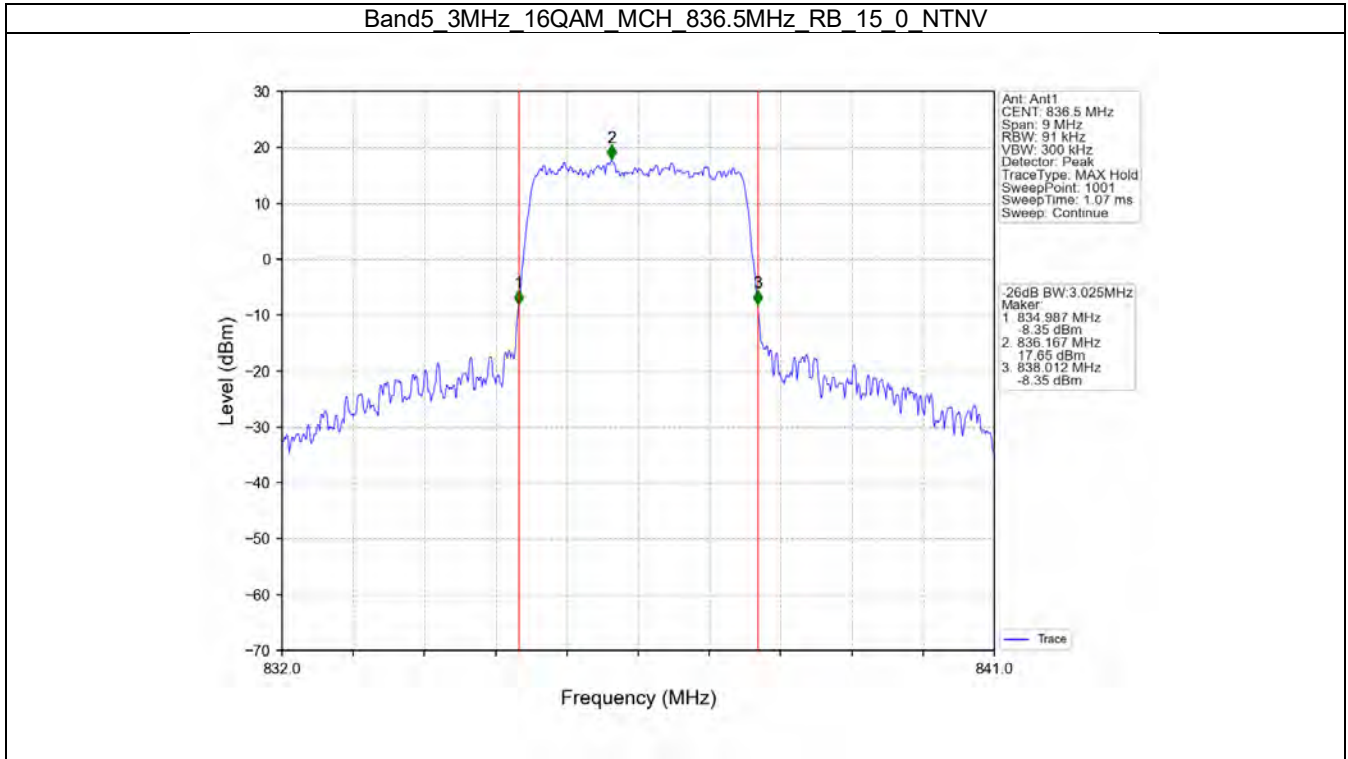
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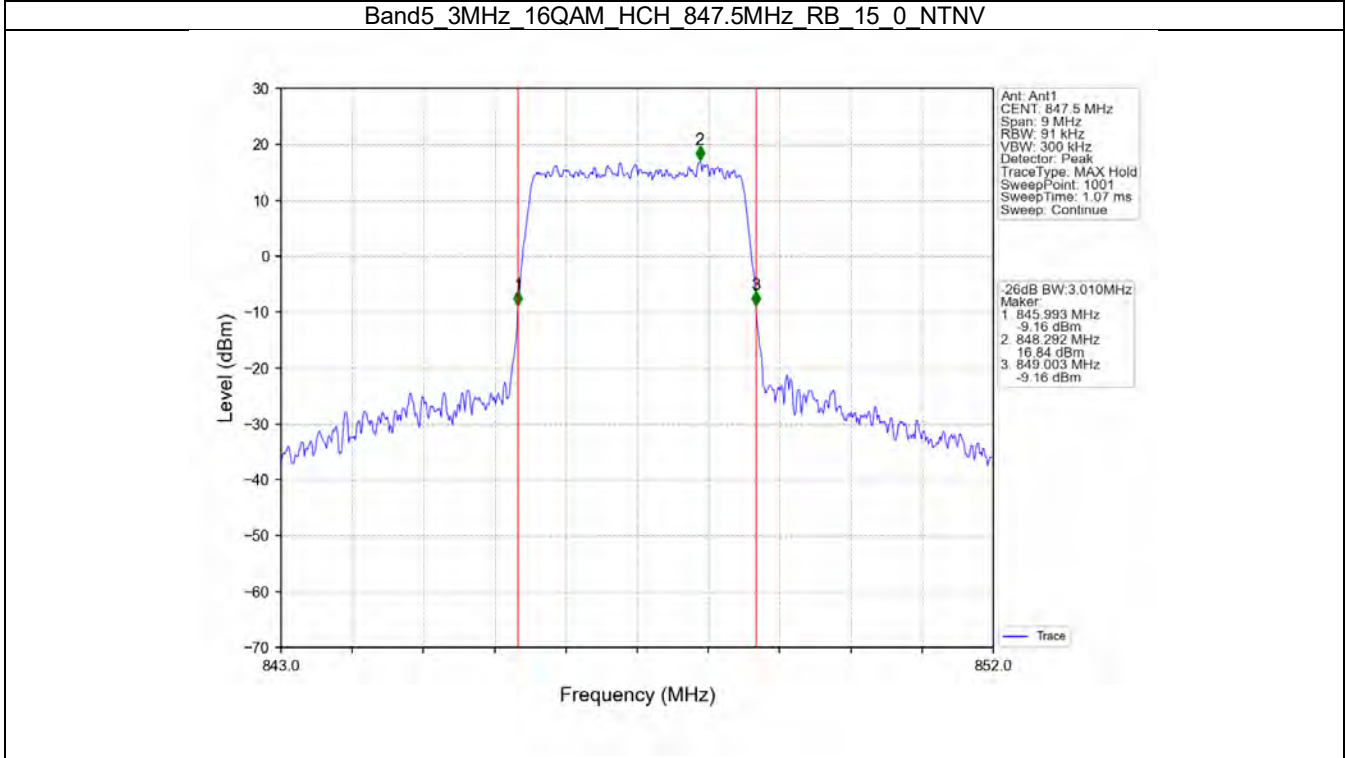
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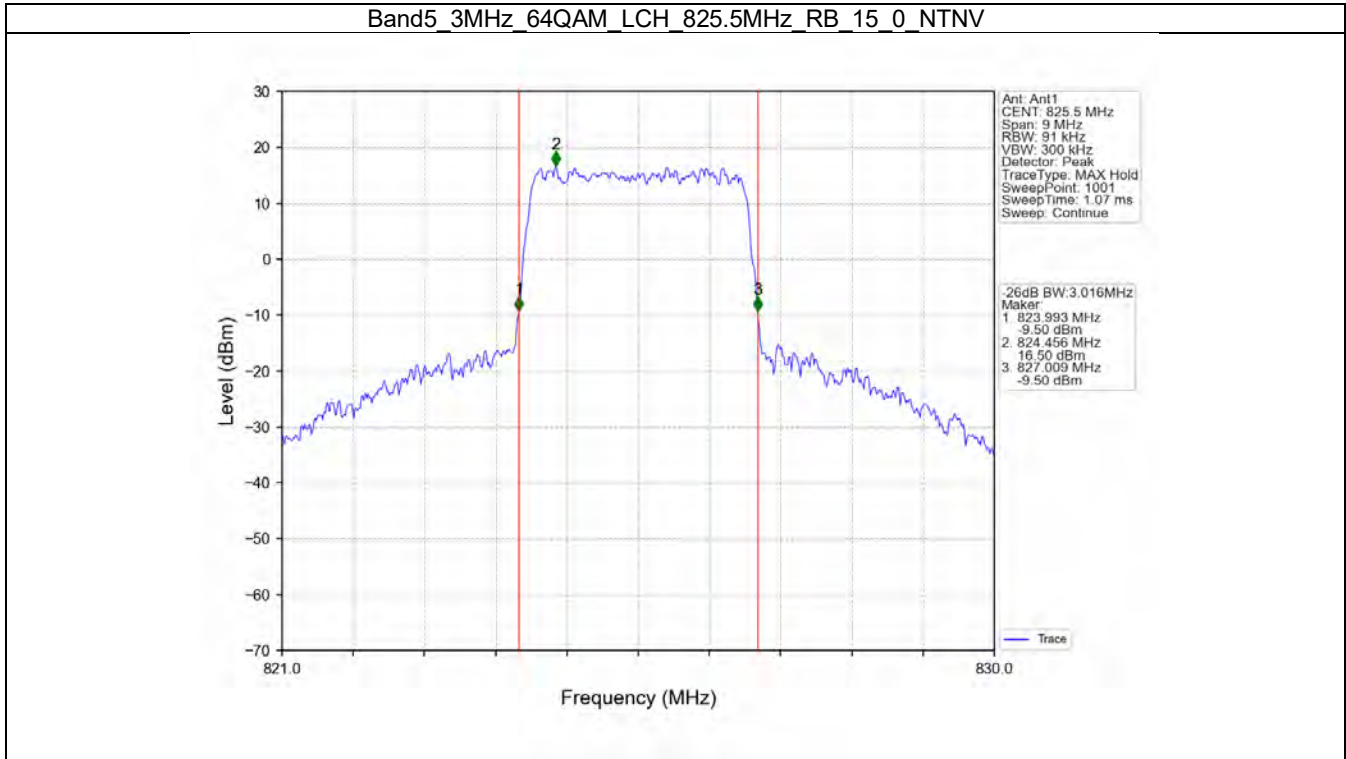
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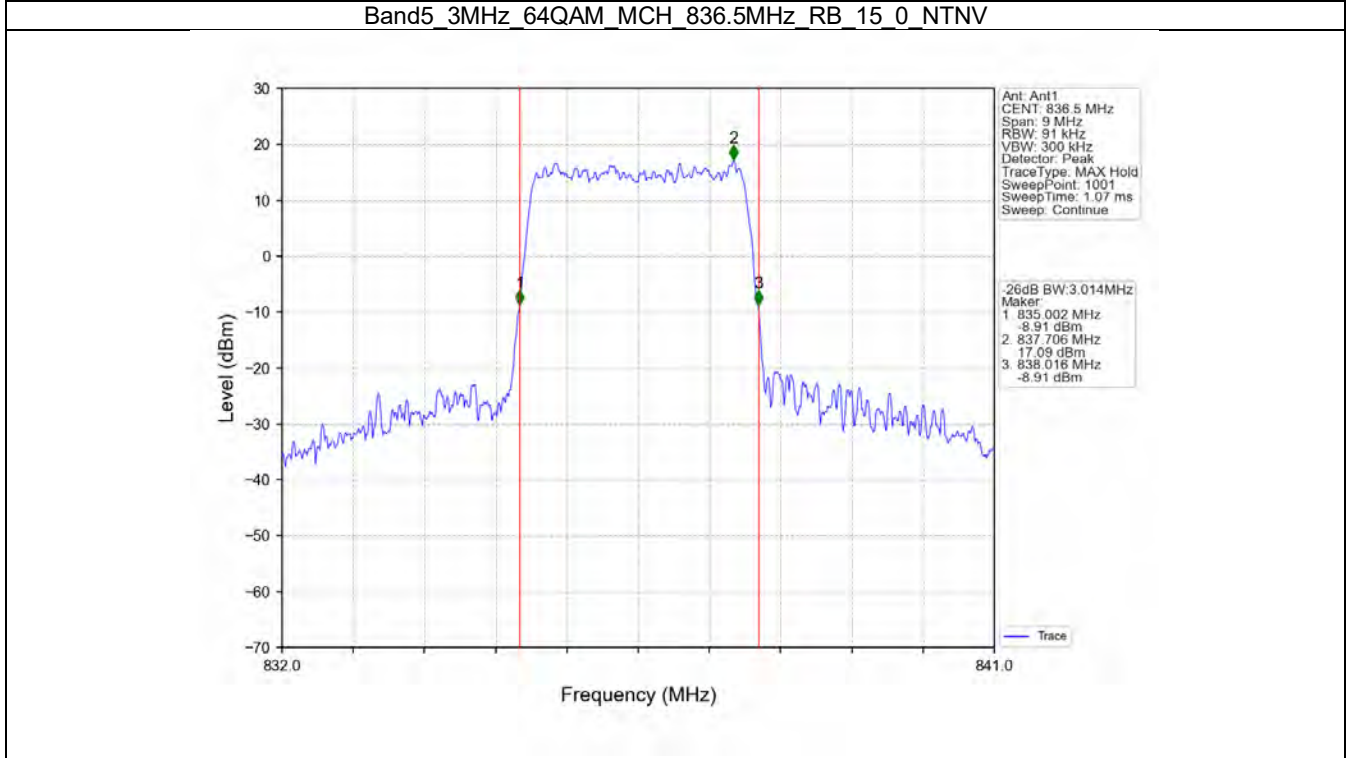
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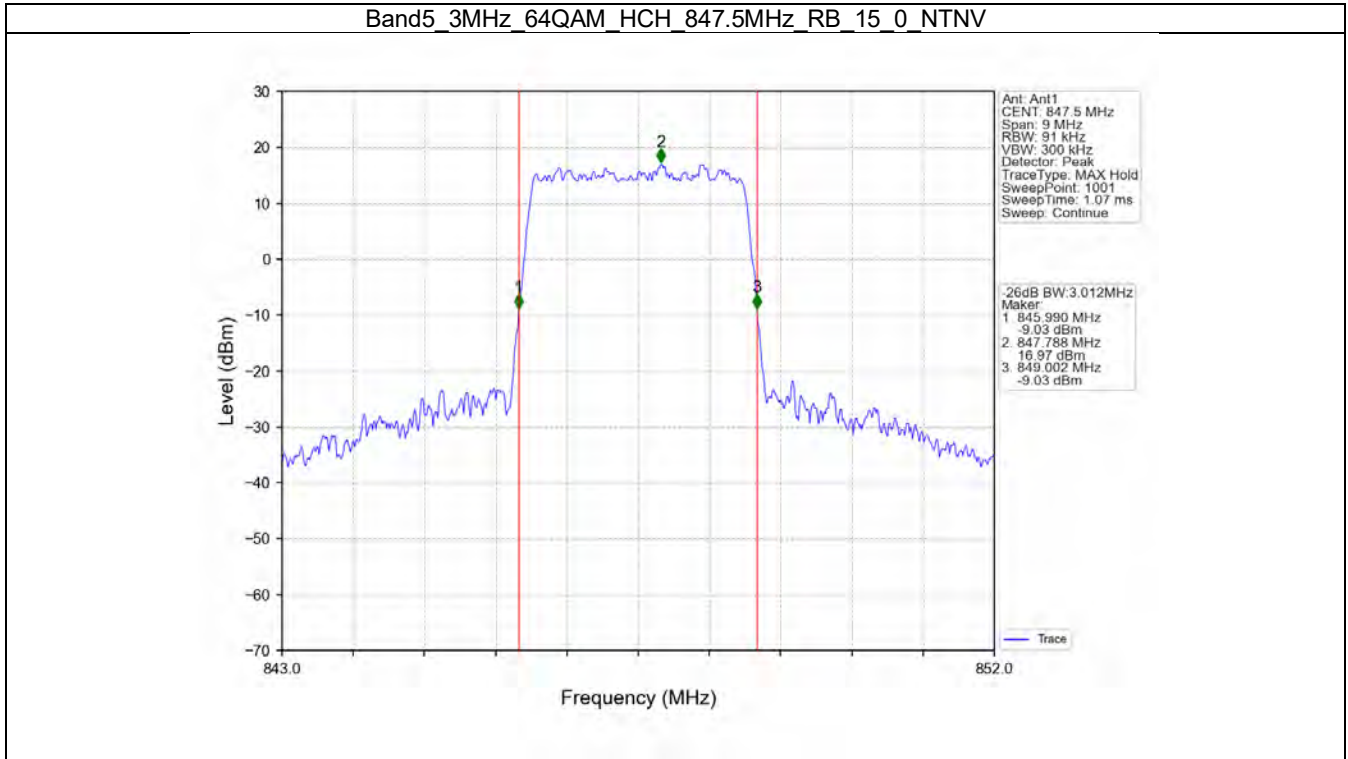
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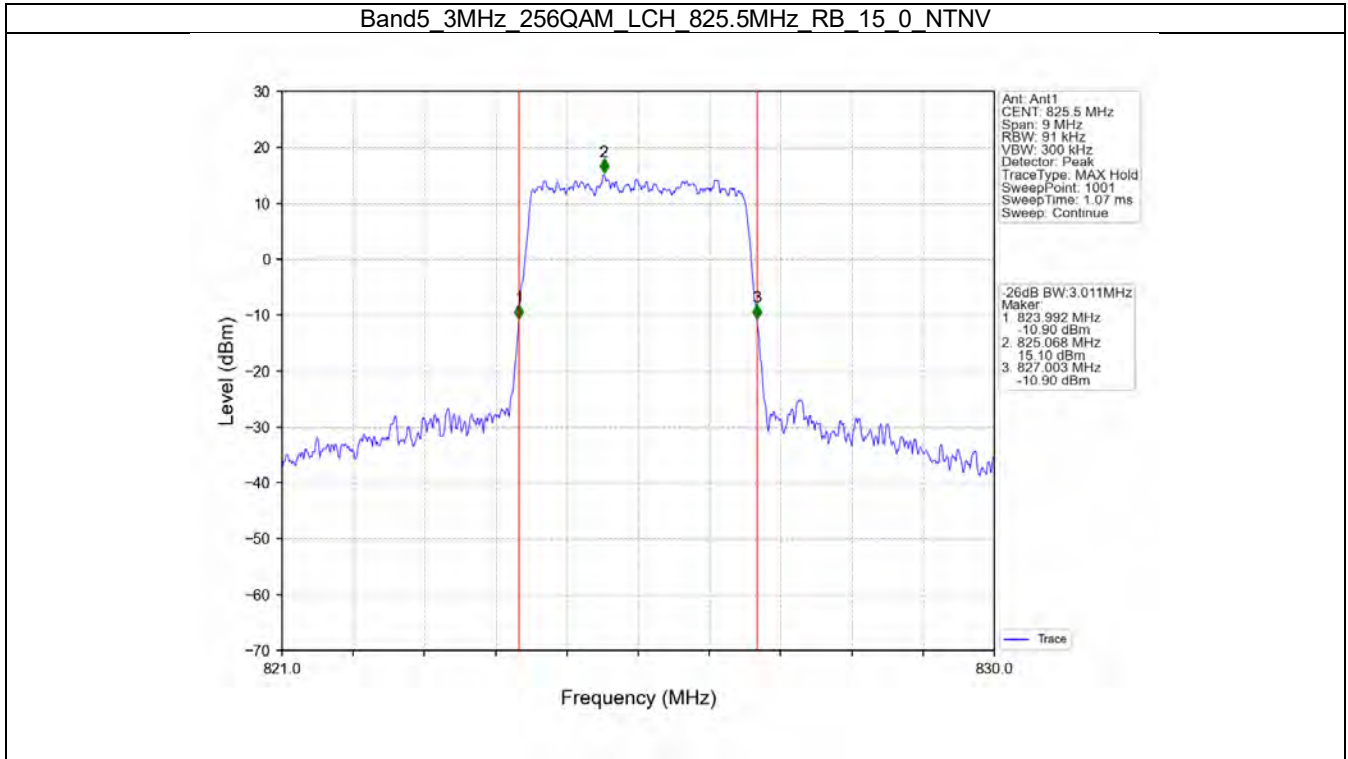
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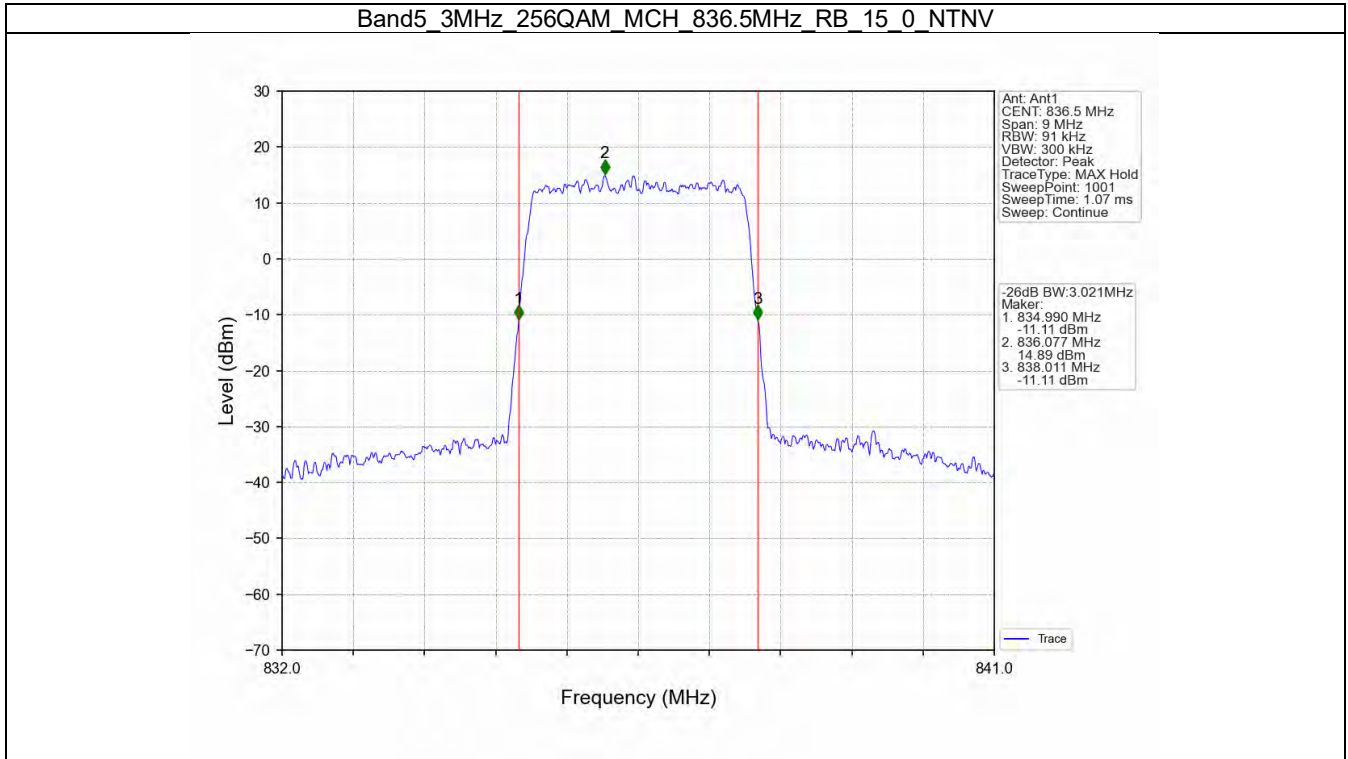
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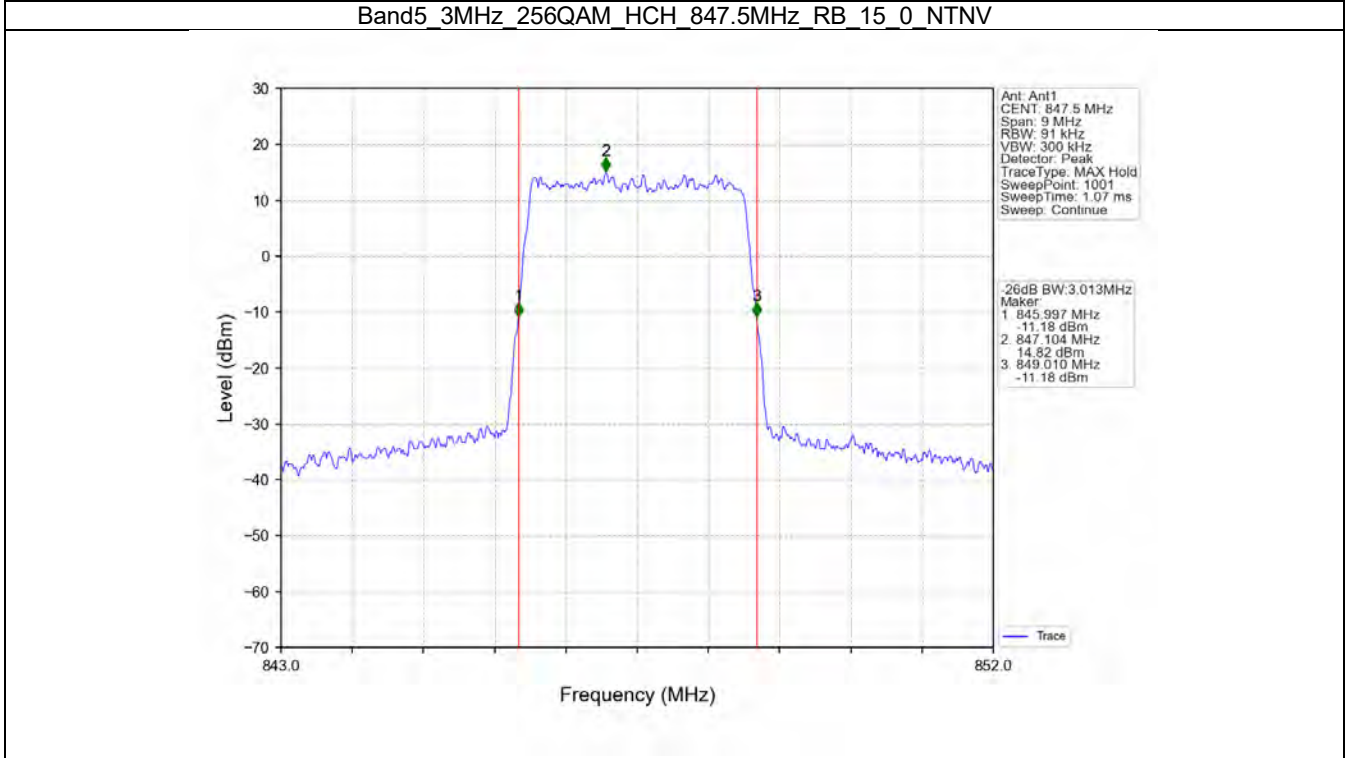
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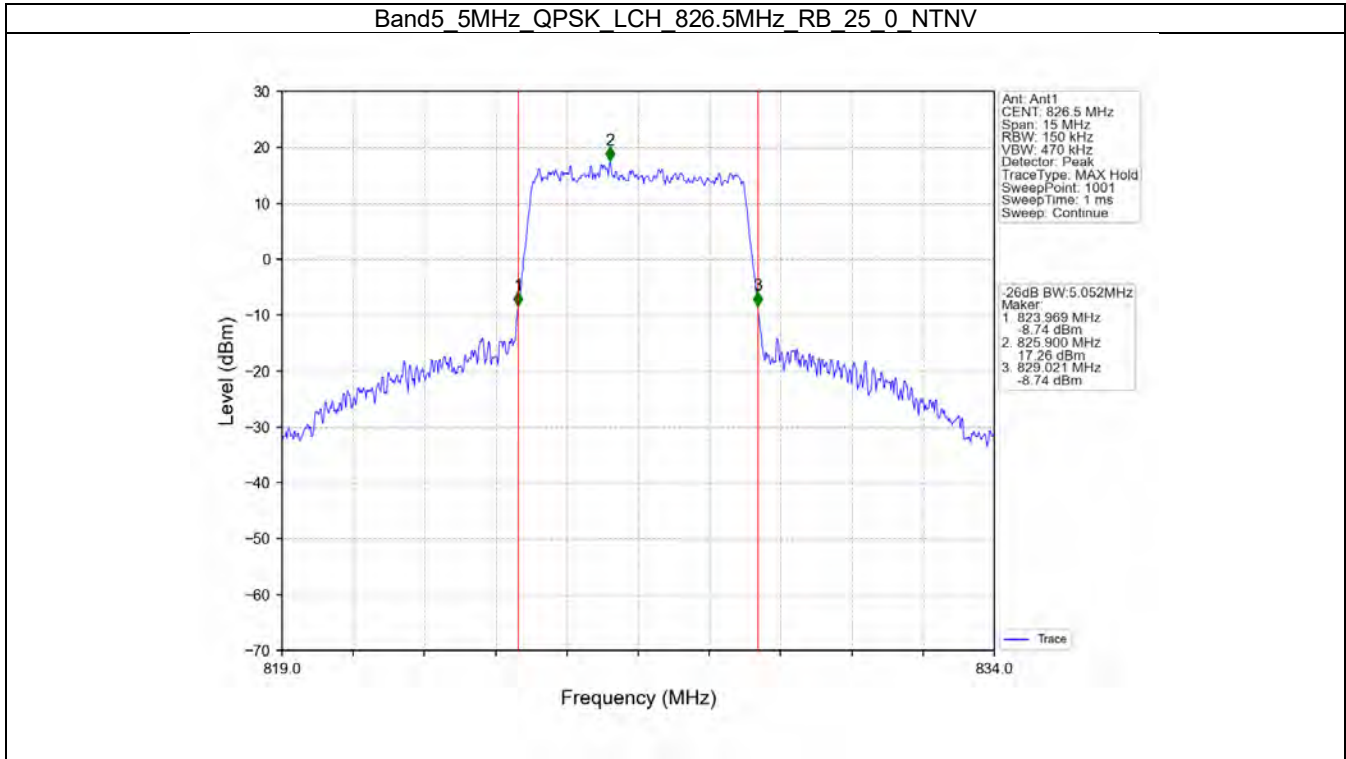
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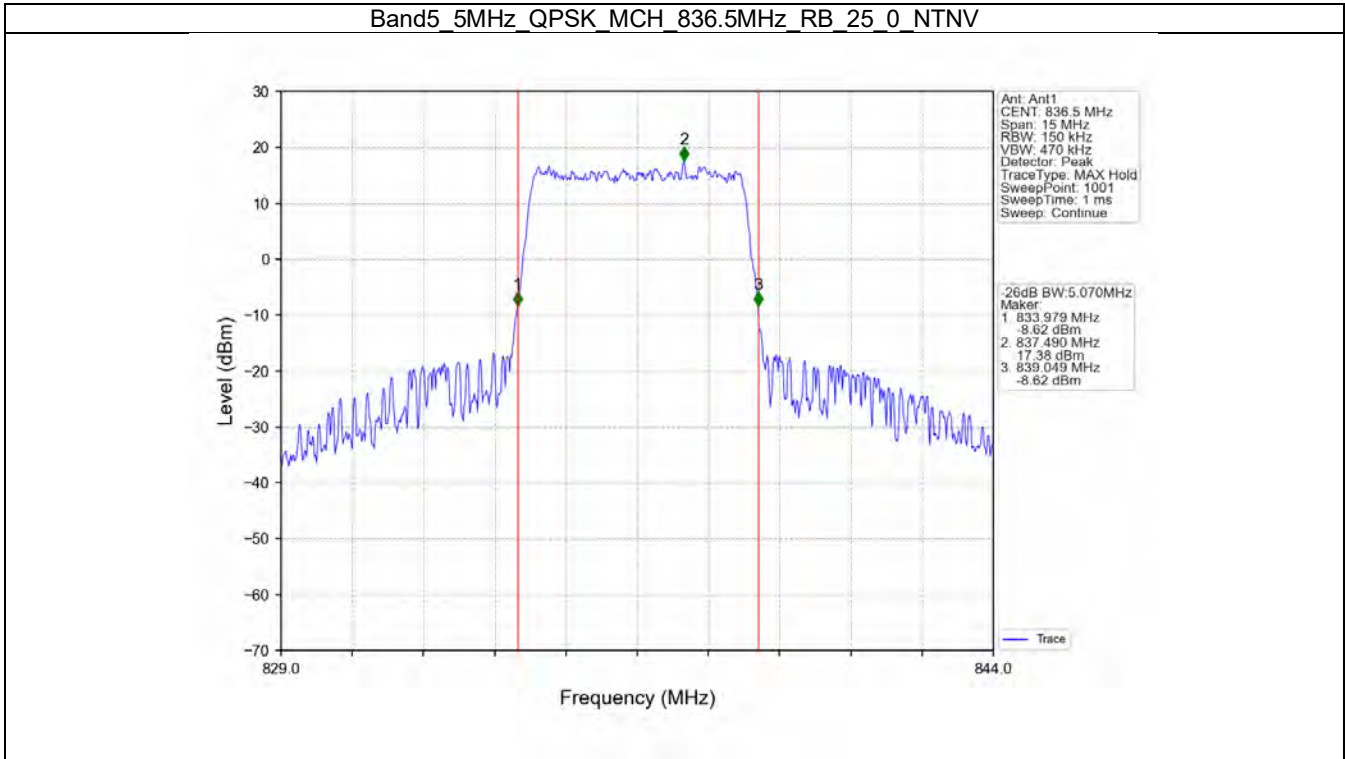
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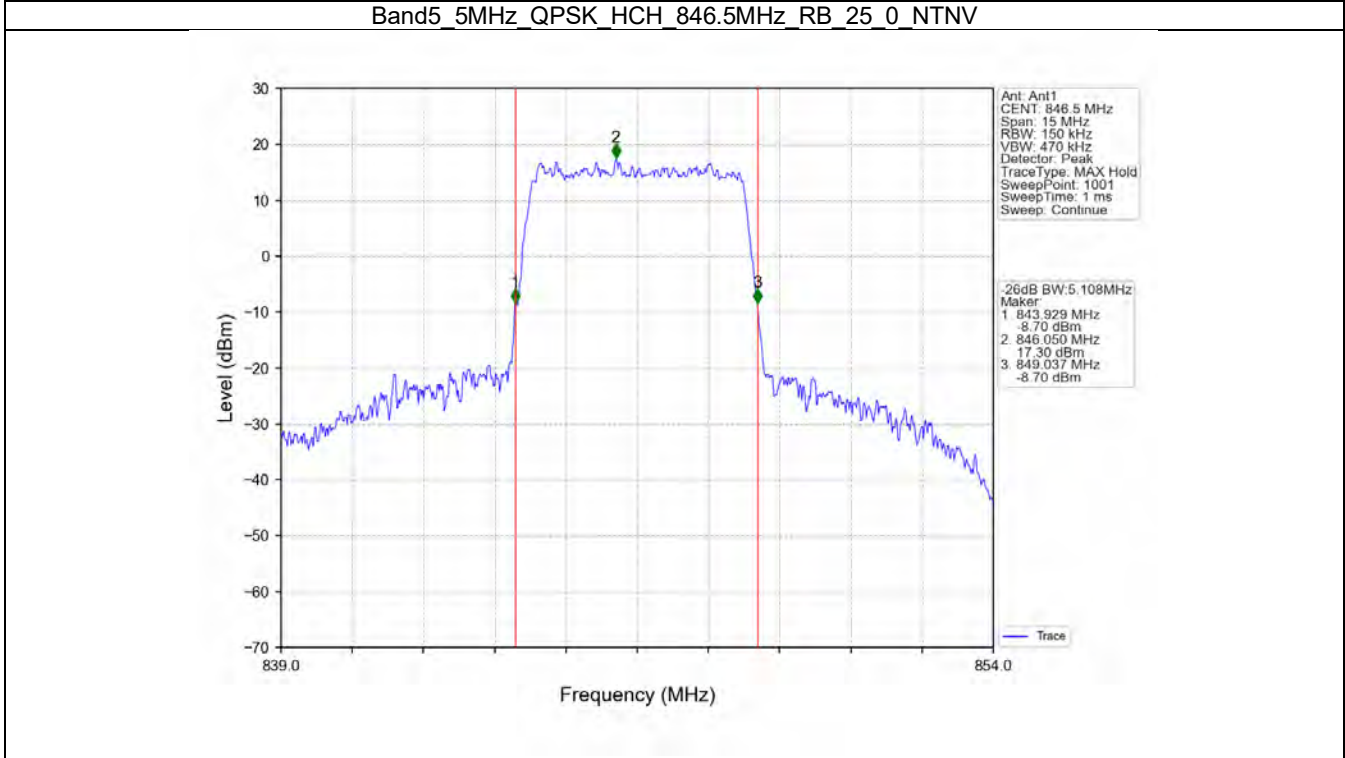
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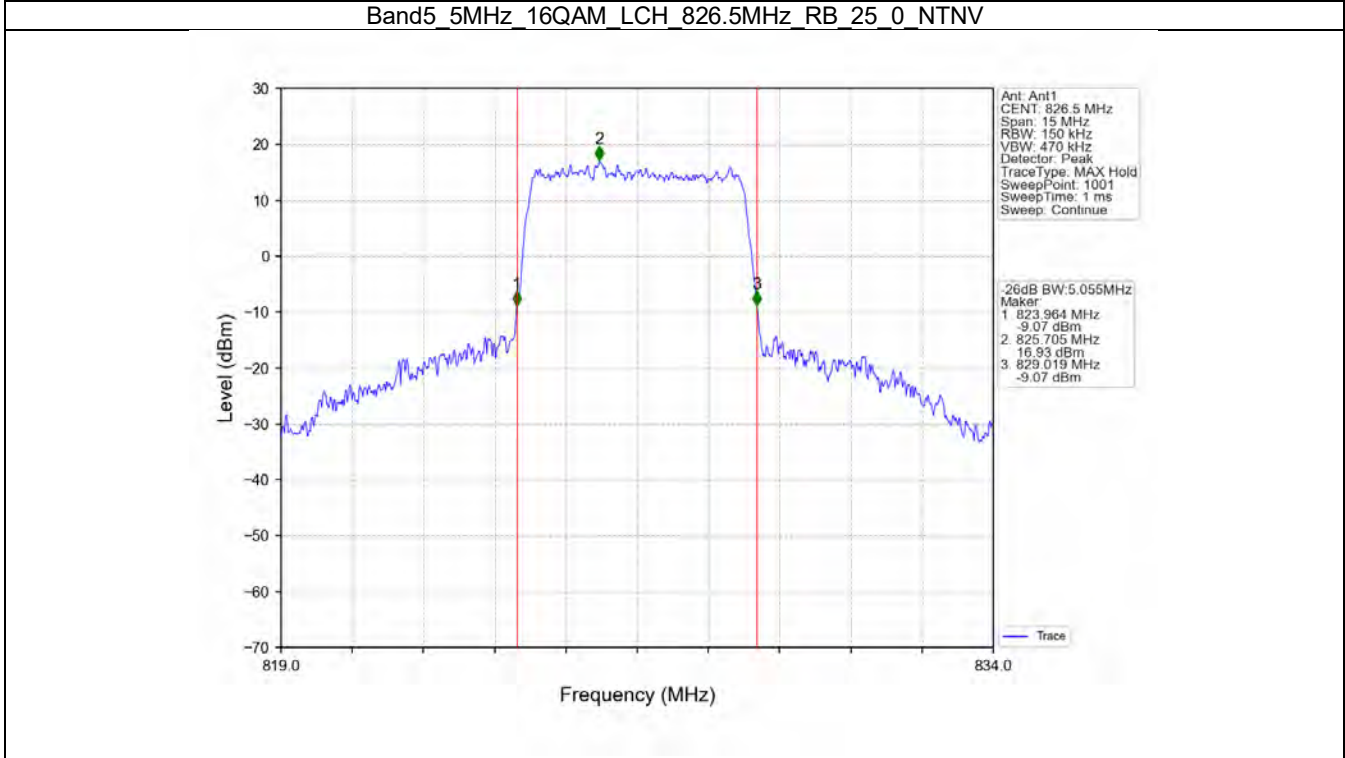
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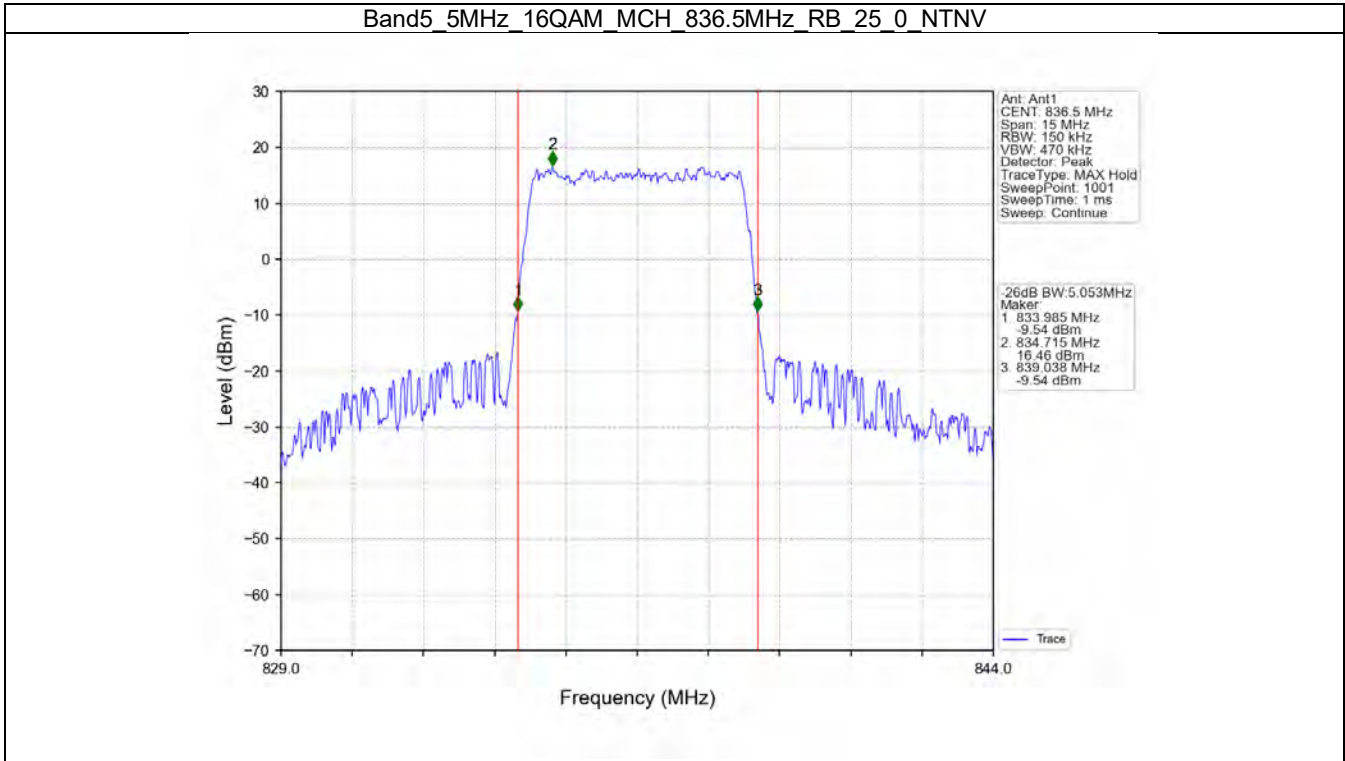
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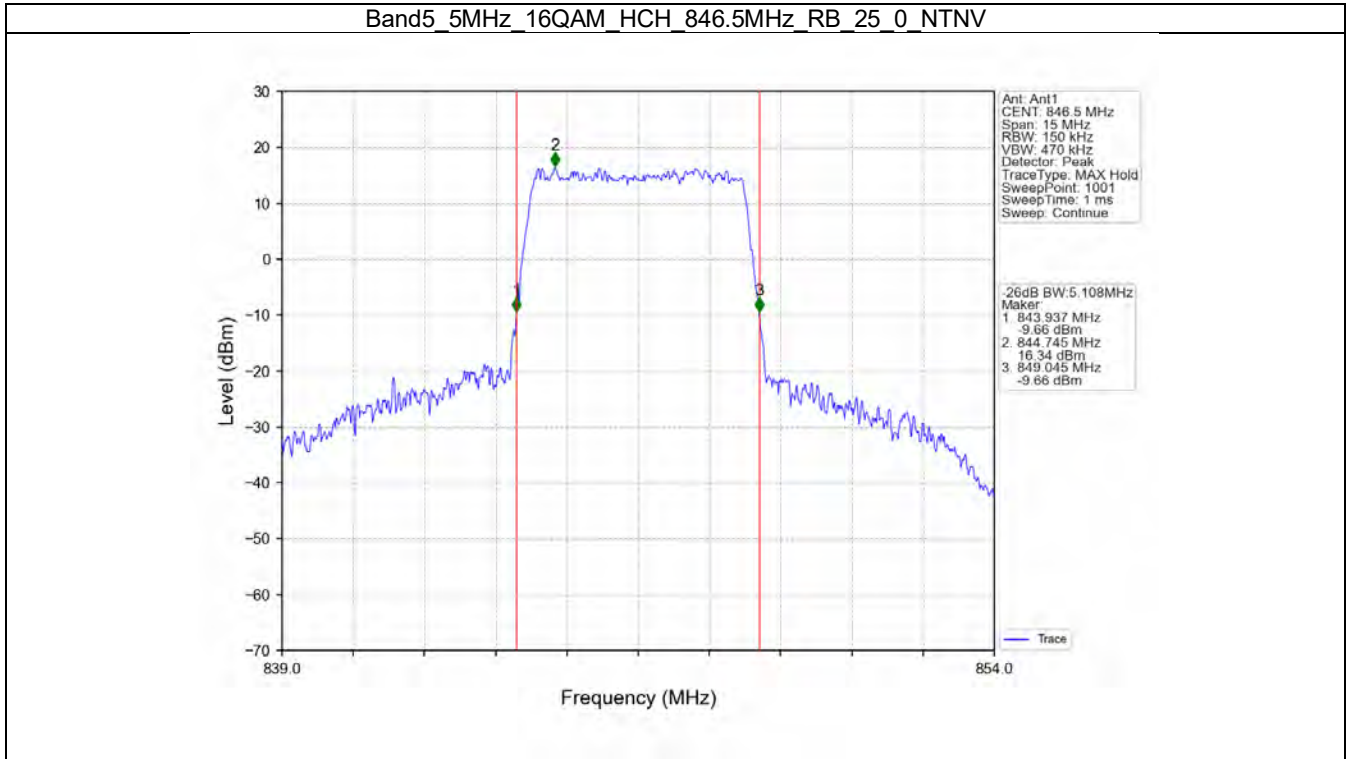
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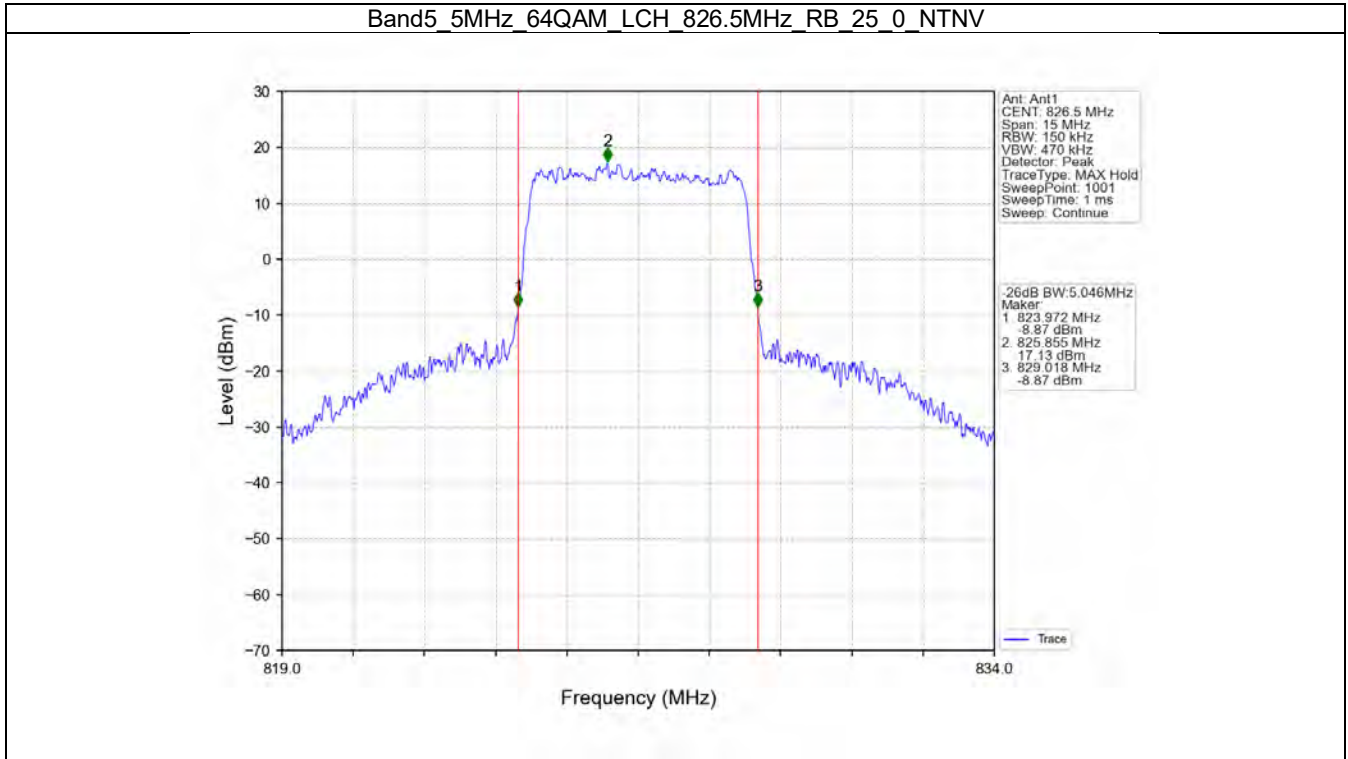
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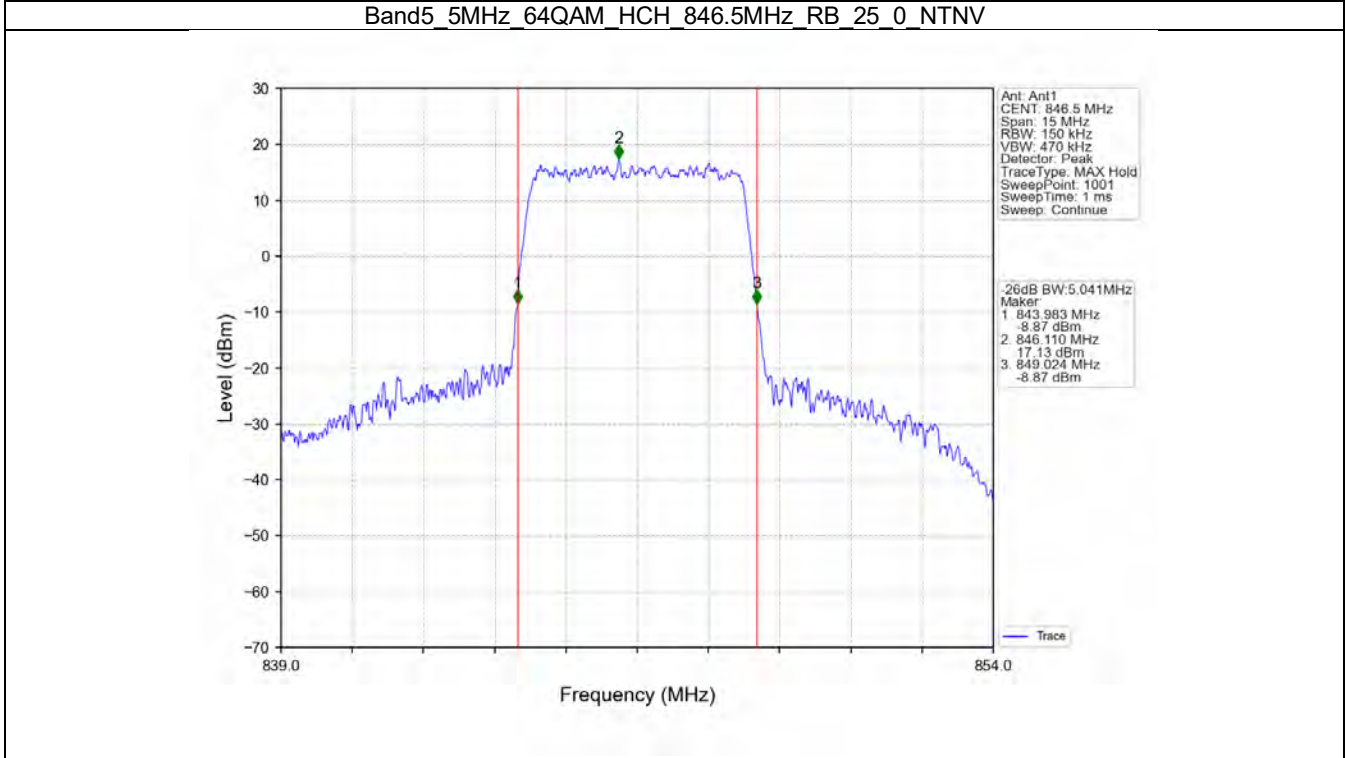
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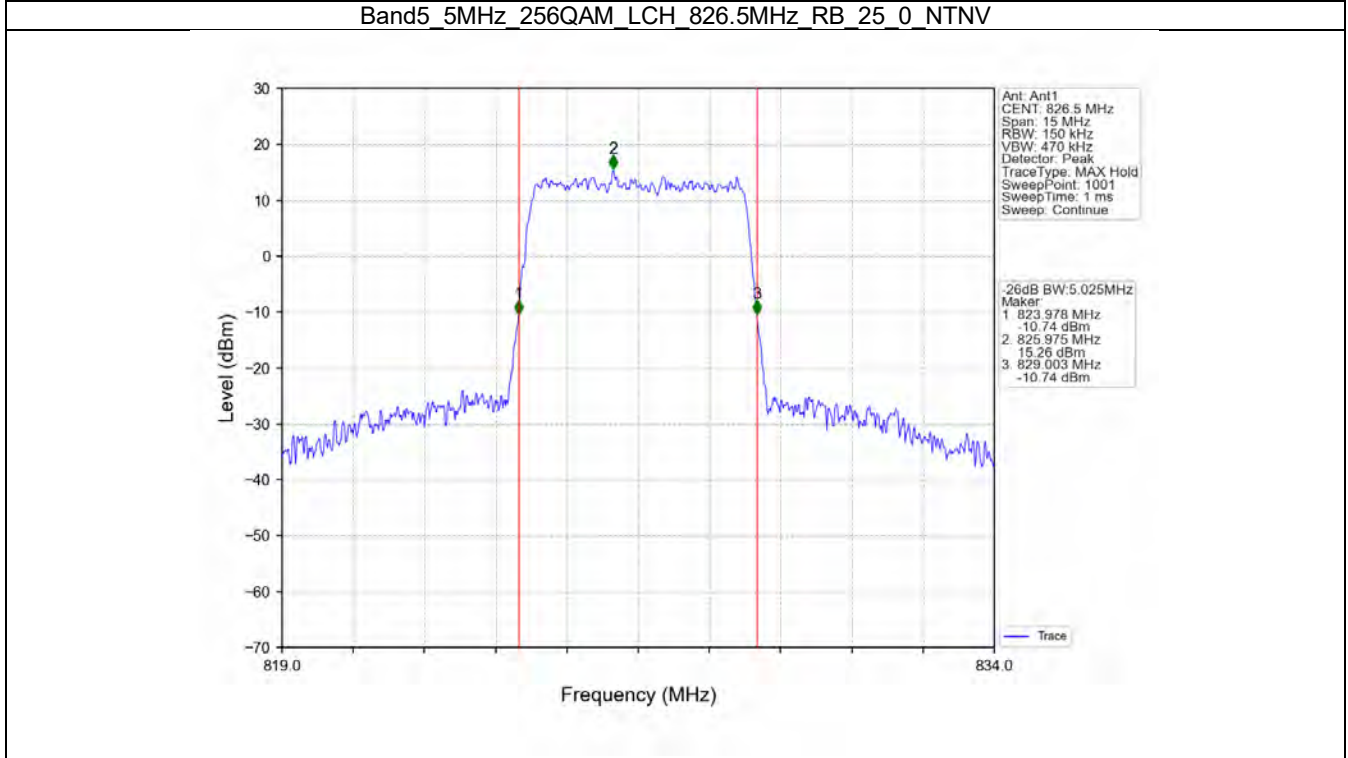
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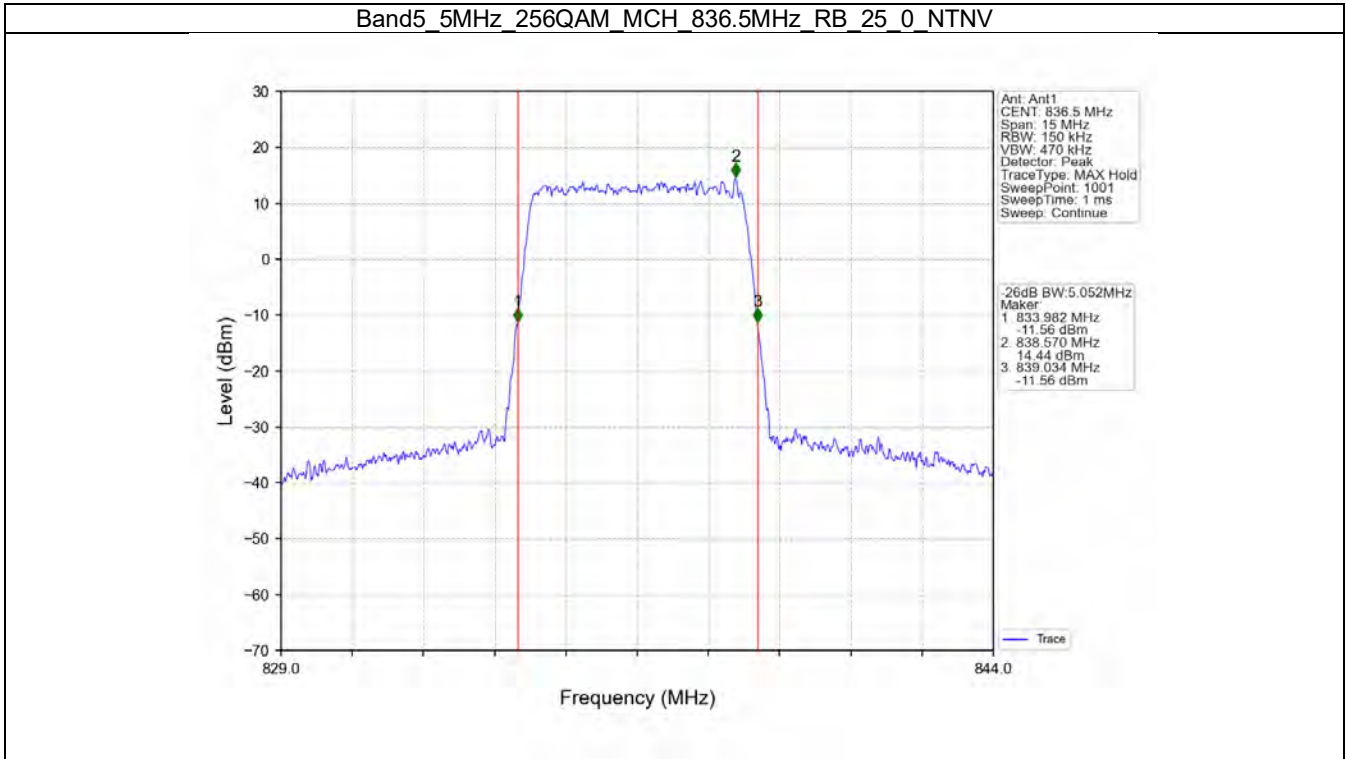
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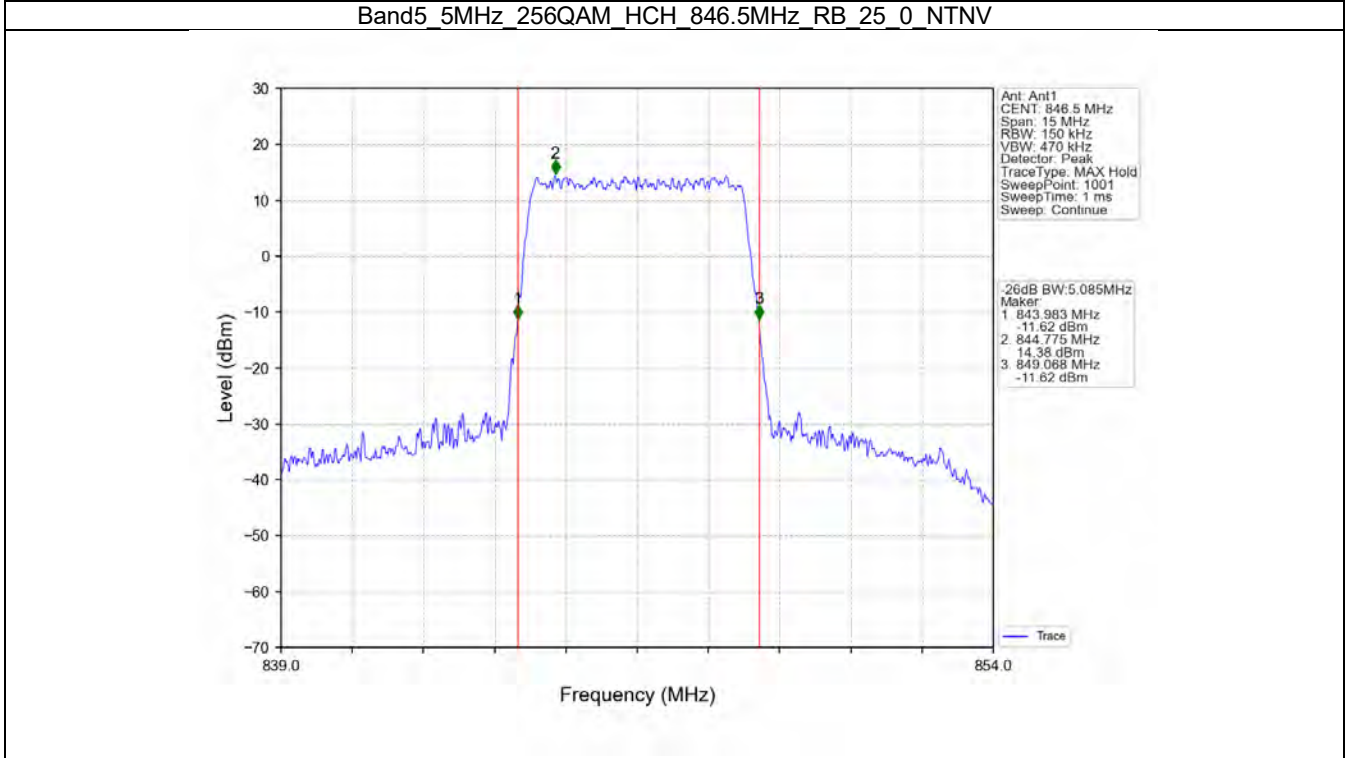
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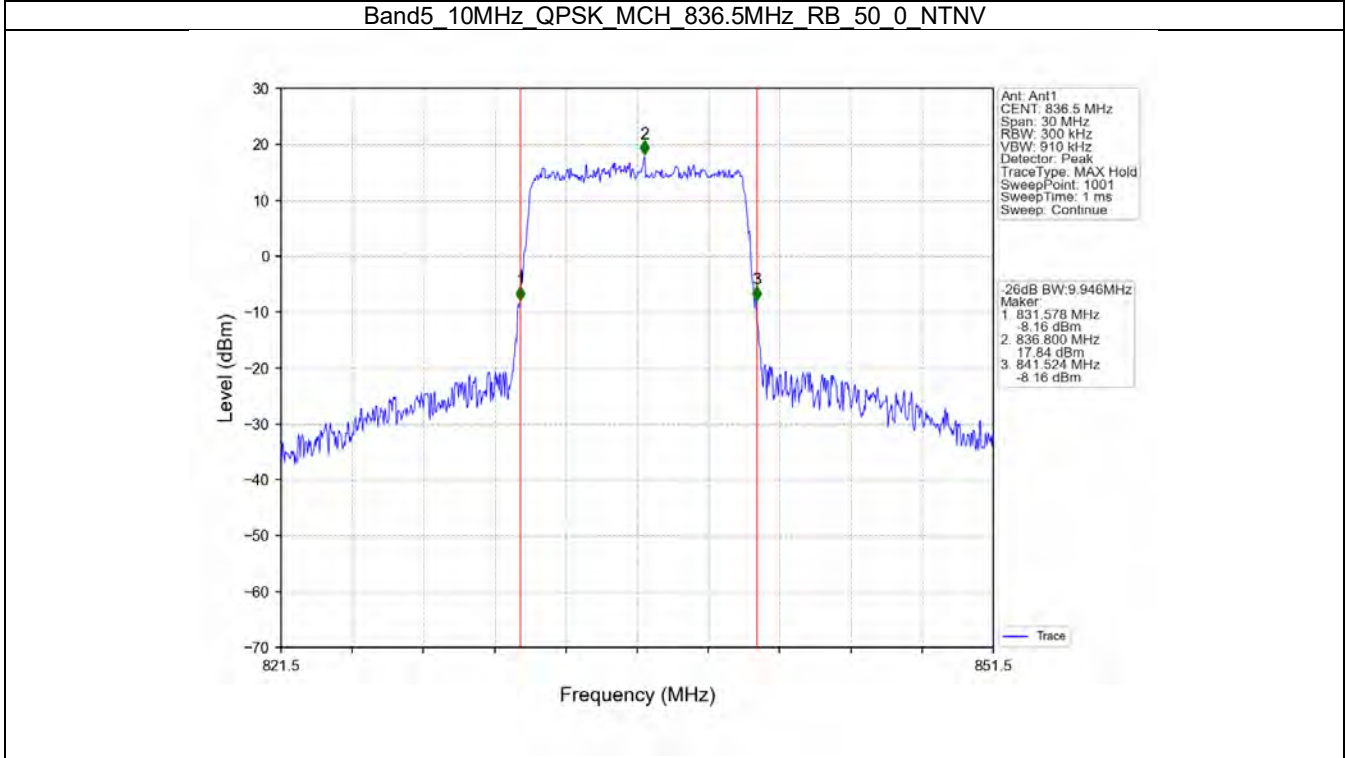
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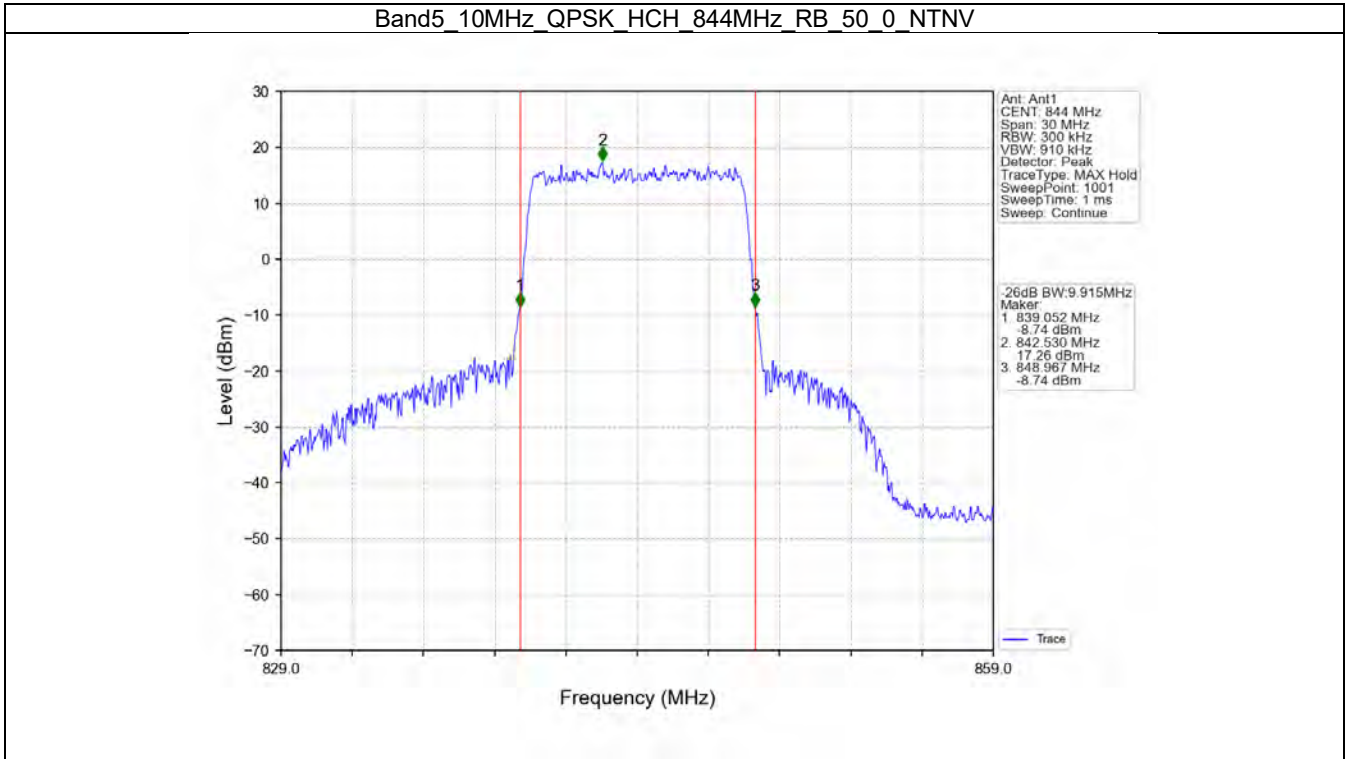
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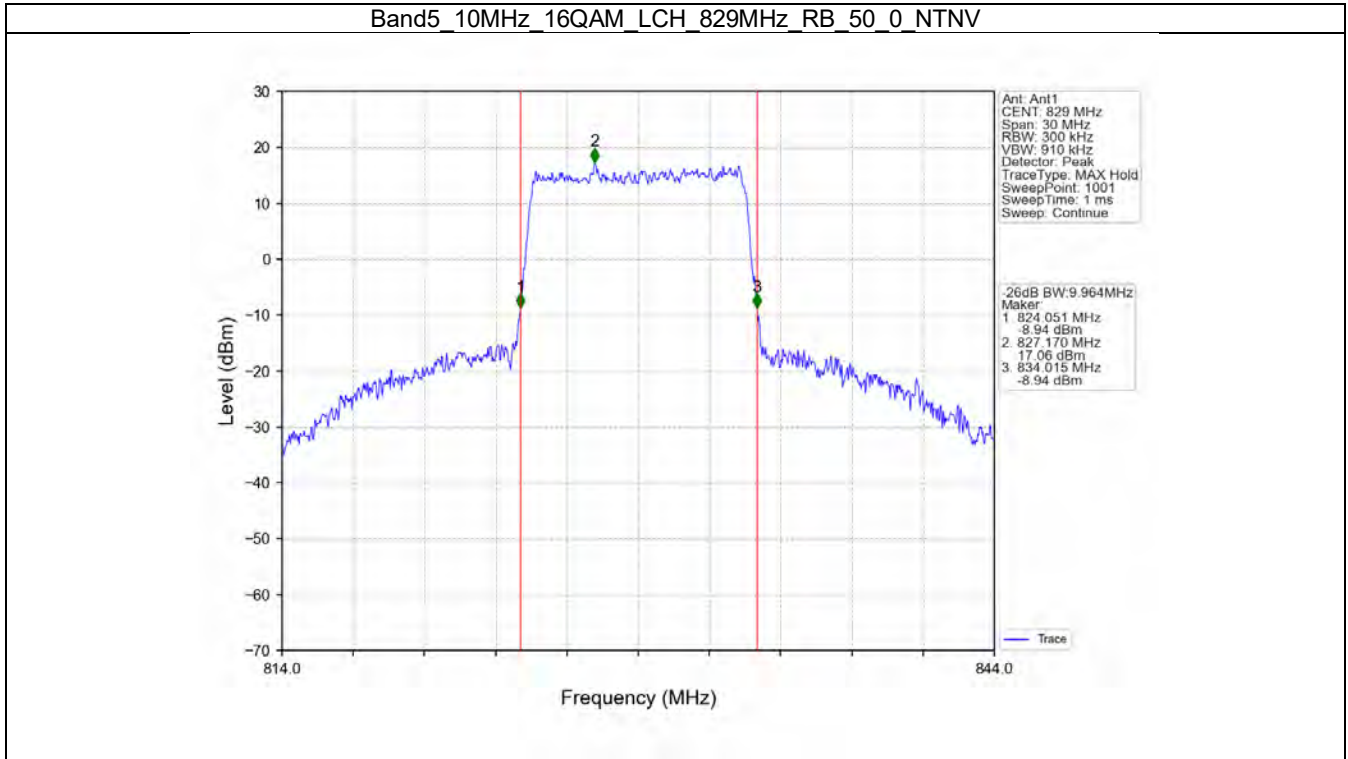
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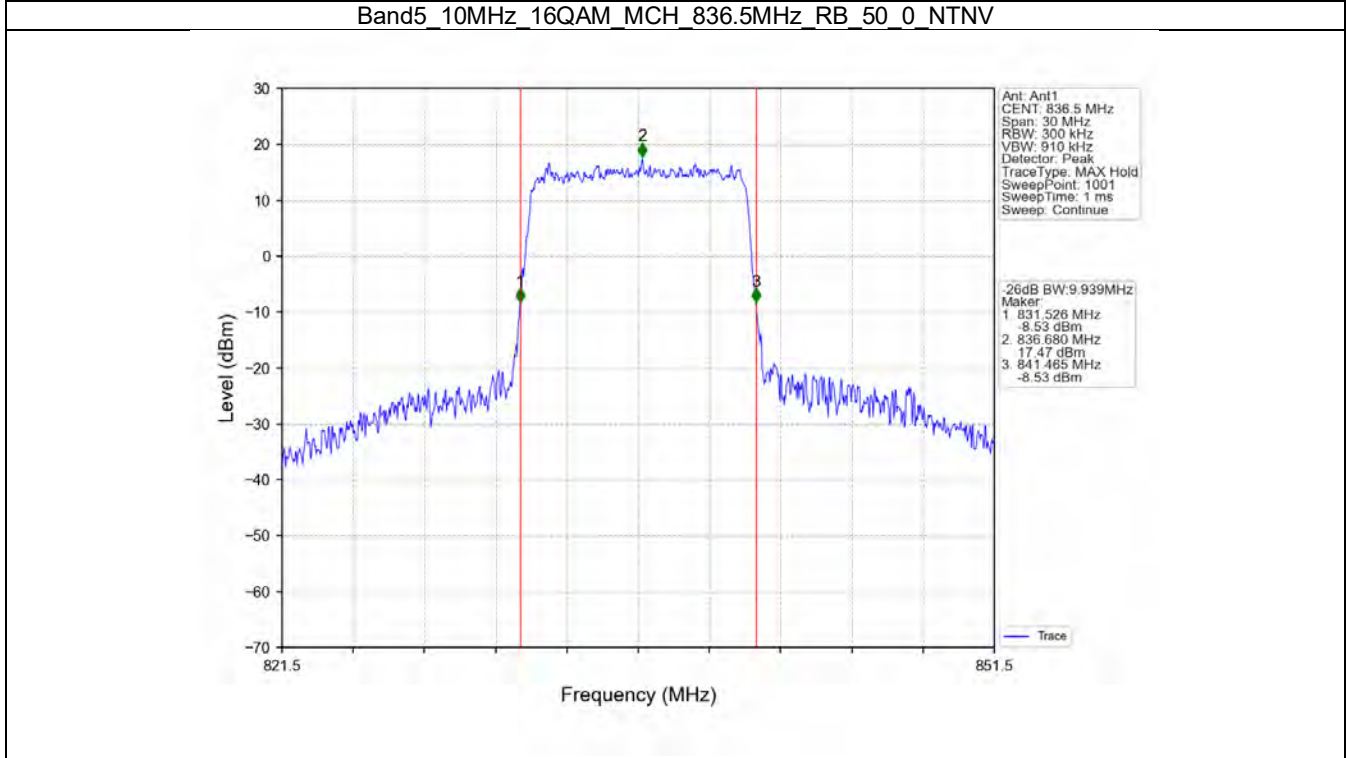
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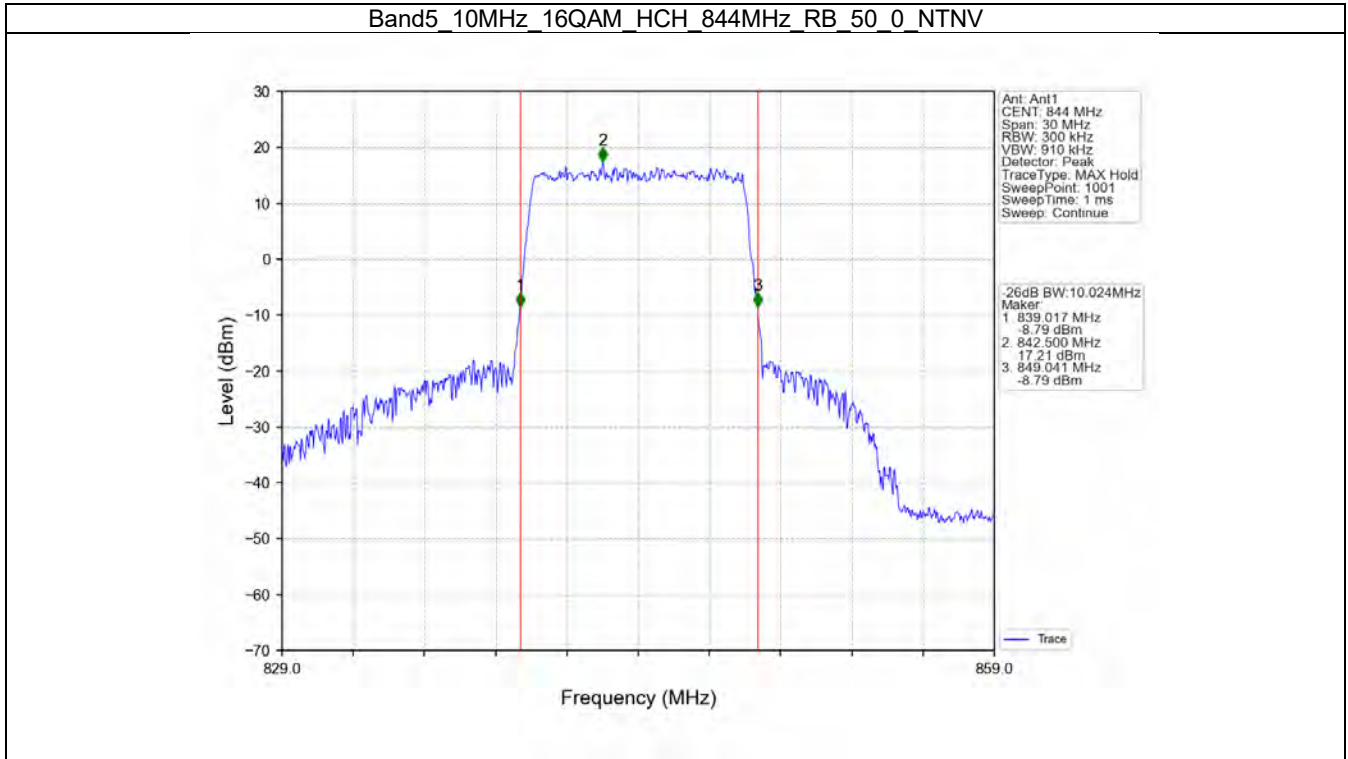
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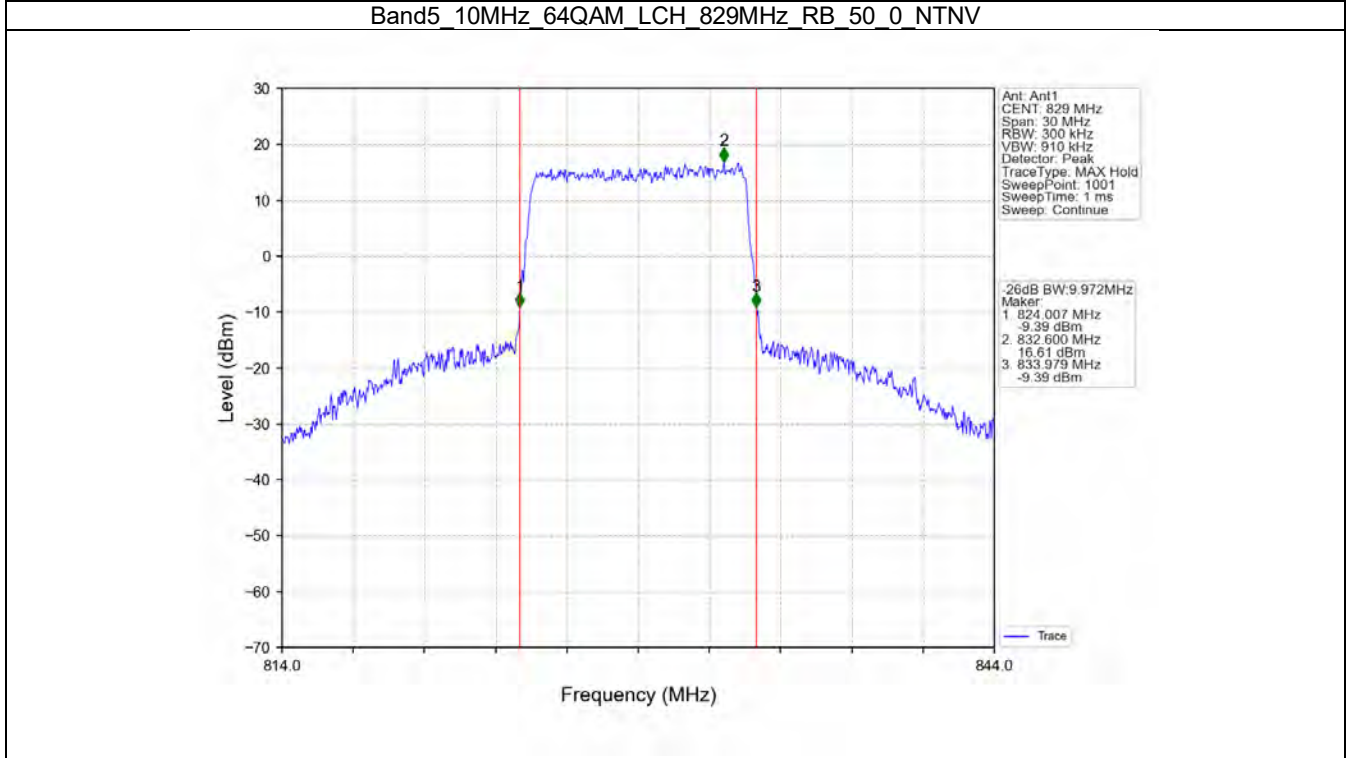
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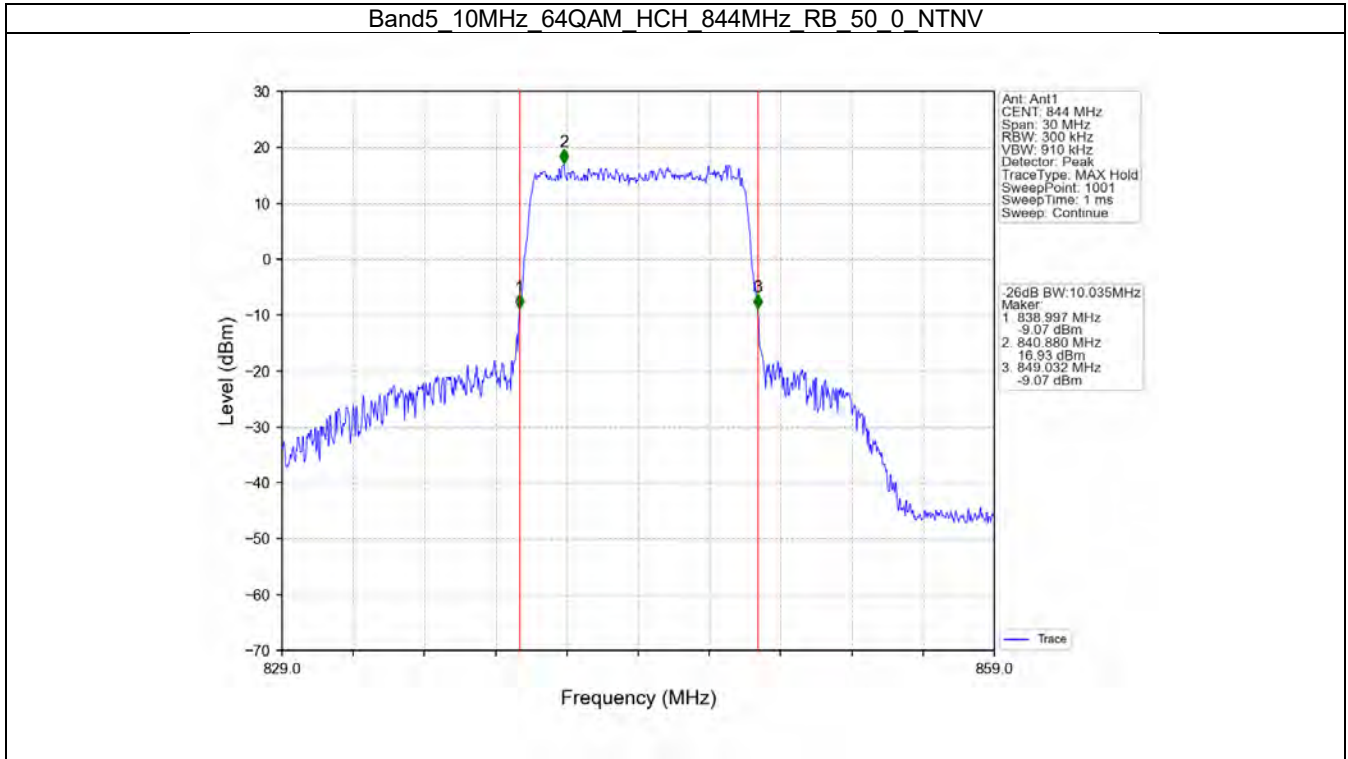
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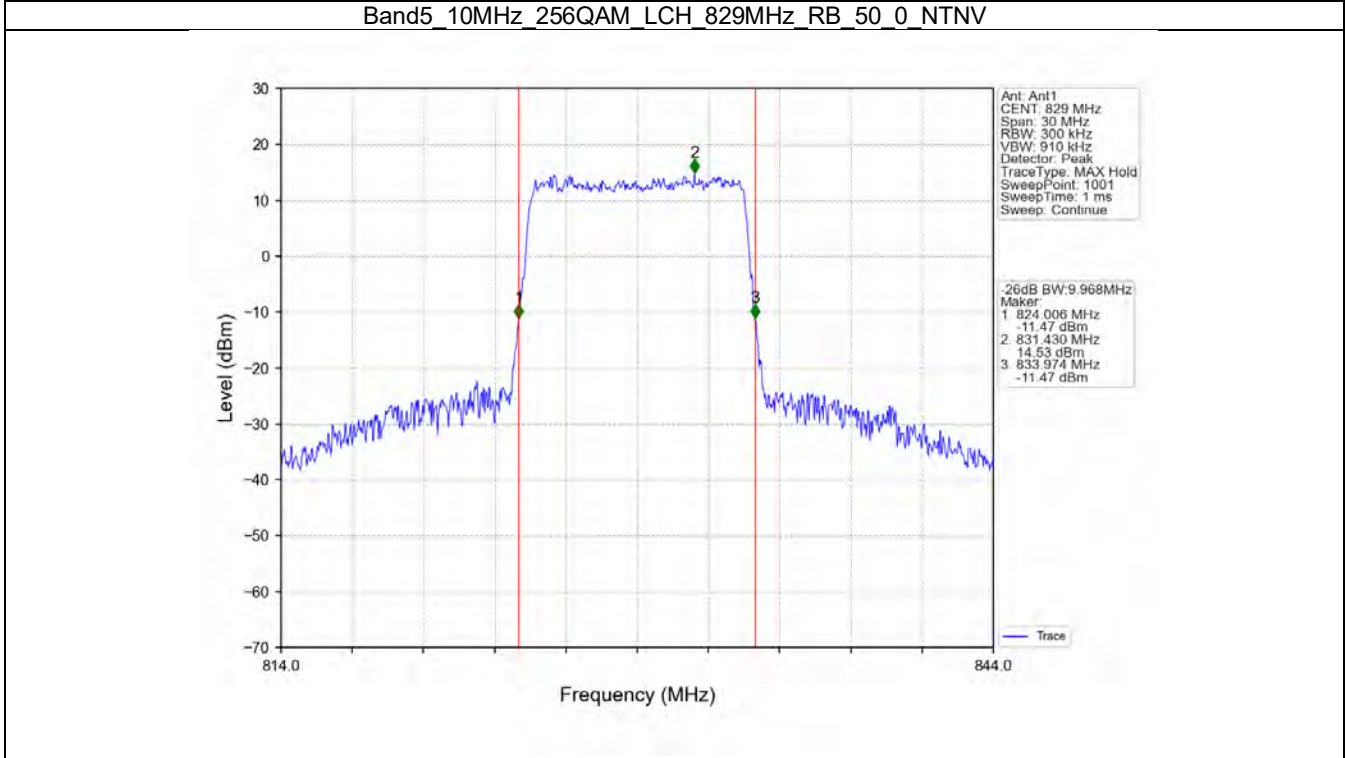
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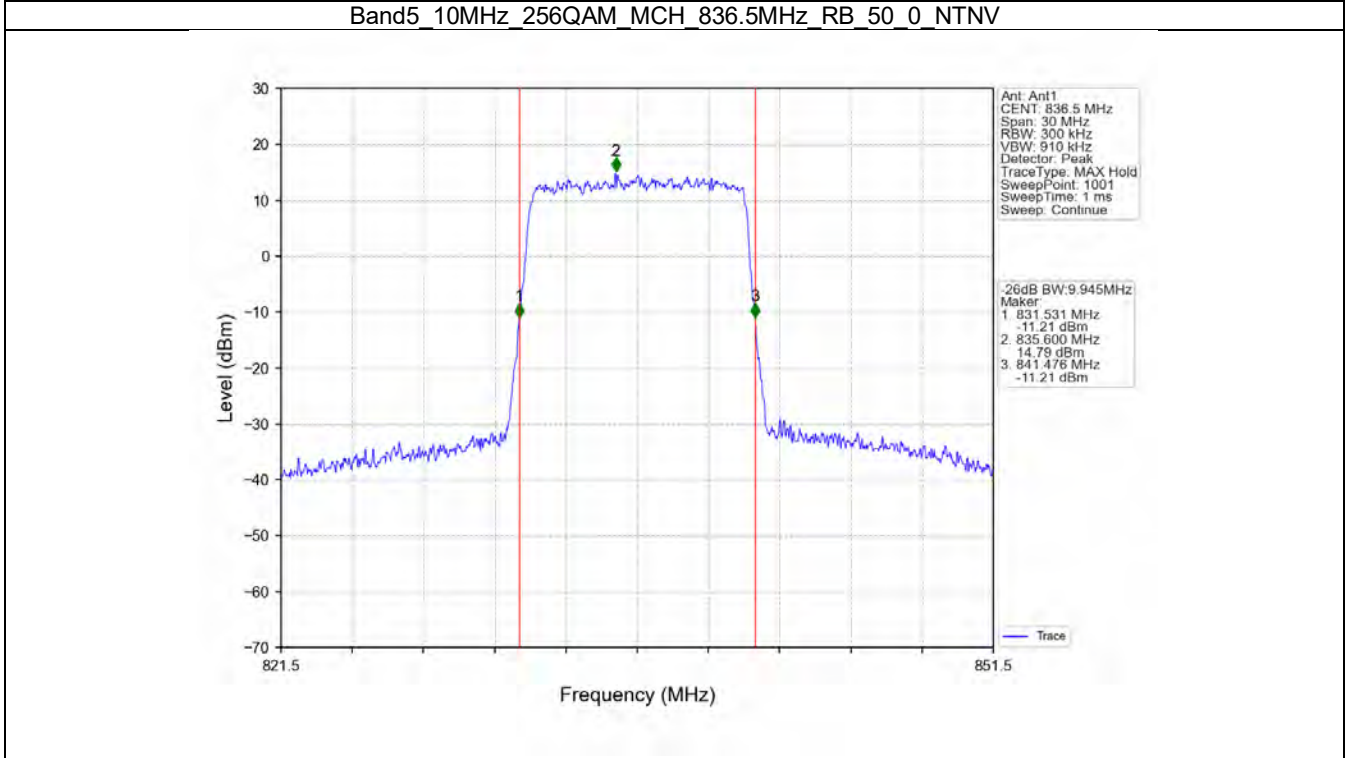
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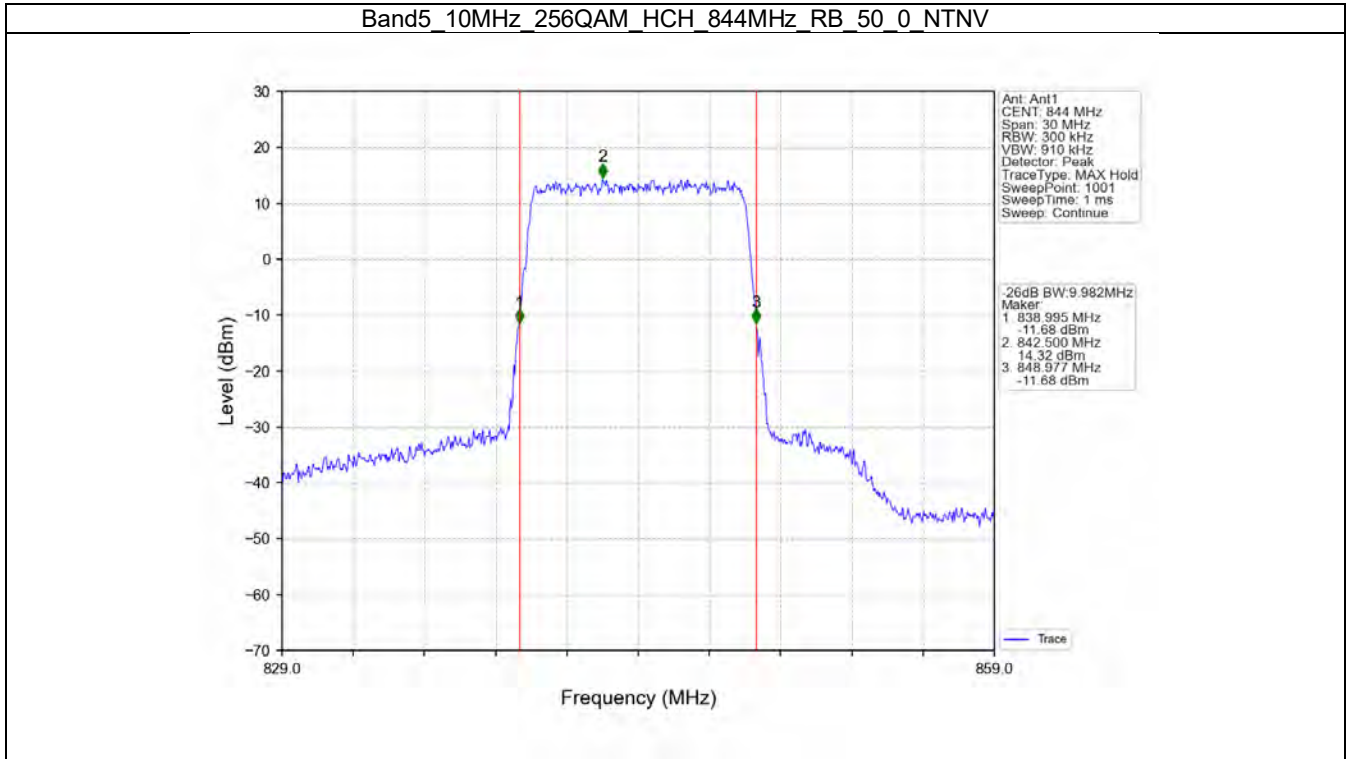
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## 4. Peak-Average Ratio

### 4.1 B5\_1.4MHz

#### 4.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	4.65	<=13	Pass
	836.5	6	0	5.27	<=13	Pass
	848.3	6	0	6.54	<=13	Pass
16QAM	824.7	6	0	5.46	<=13	Pass
	836.5	6	0	6.07	<=13	Pass
	848.3	6	0	6.53	<=13	Pass
64QAM	824.7	6	0	6.05	<=13	Pass
	836.5	6	0	6.62	<=13	Pass
	848.3	6	0	6.54	<=13	Pass
256QAM	824.7	6	0	6.71	<=13	Pass
	836.5	6	0	6.78	<=13	Pass
	848.3	6	0	6.75	<=13	Pass



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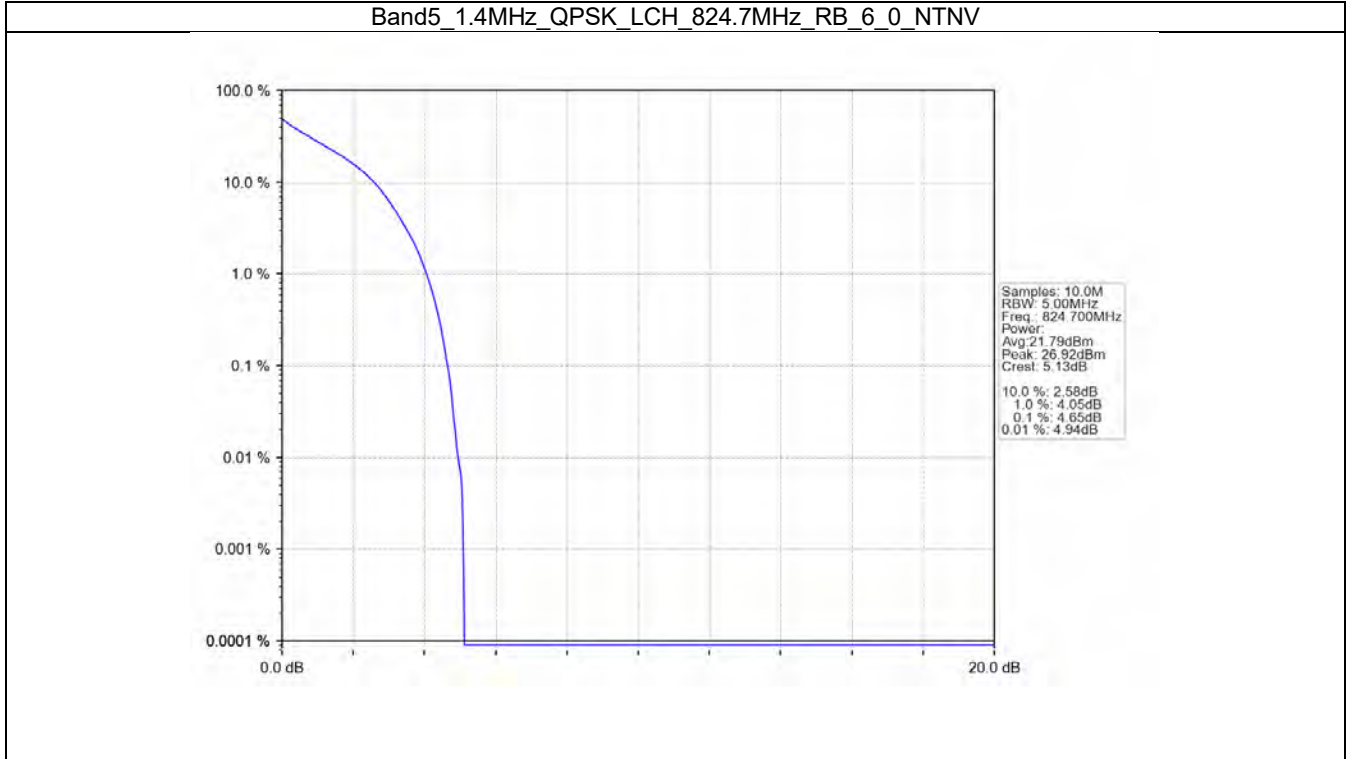
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4.1.2 Test Graph



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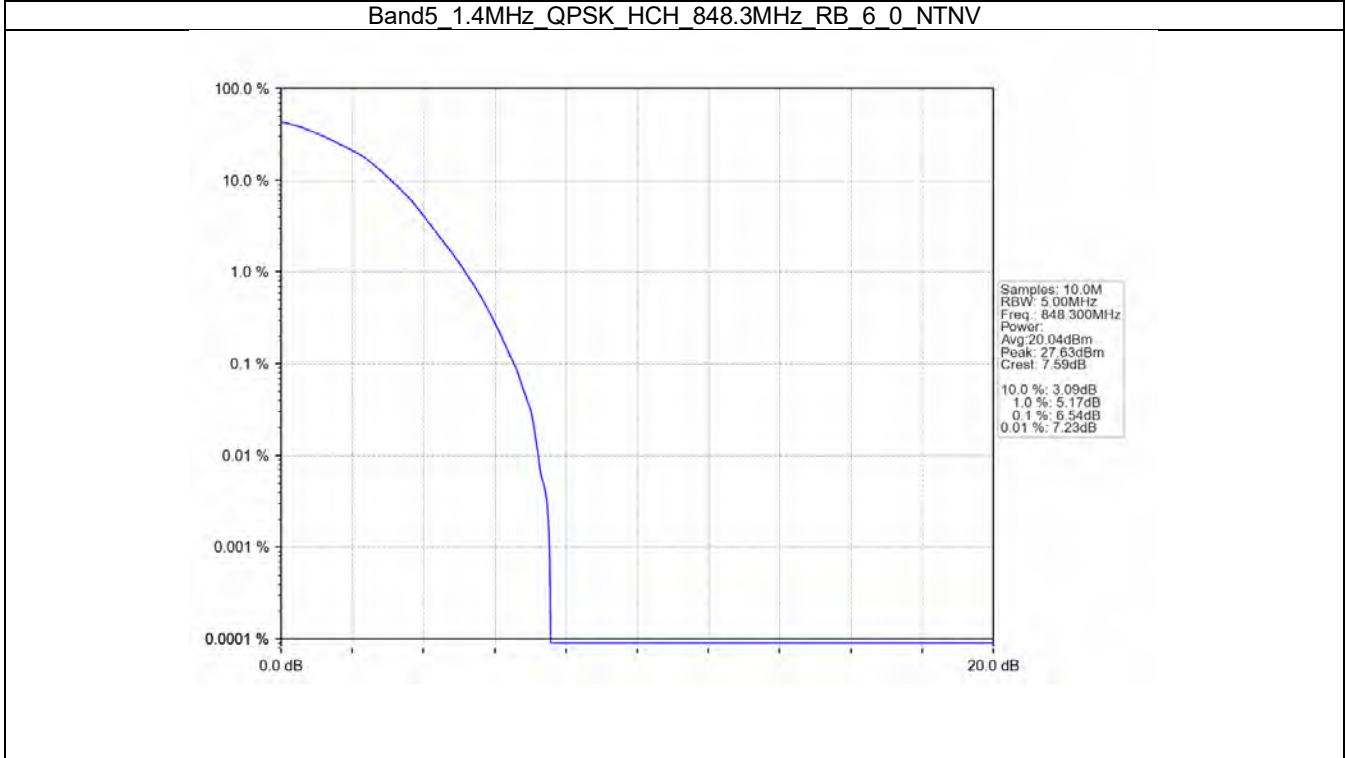
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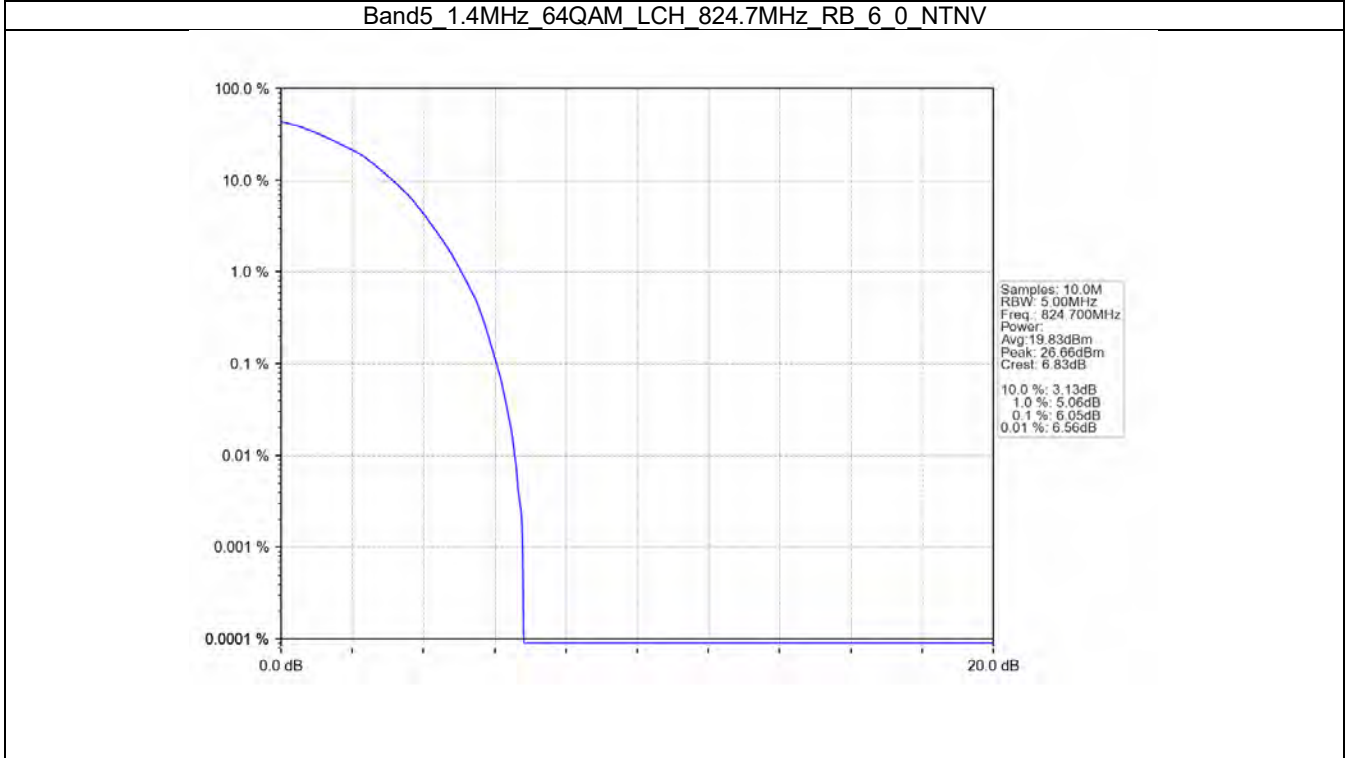
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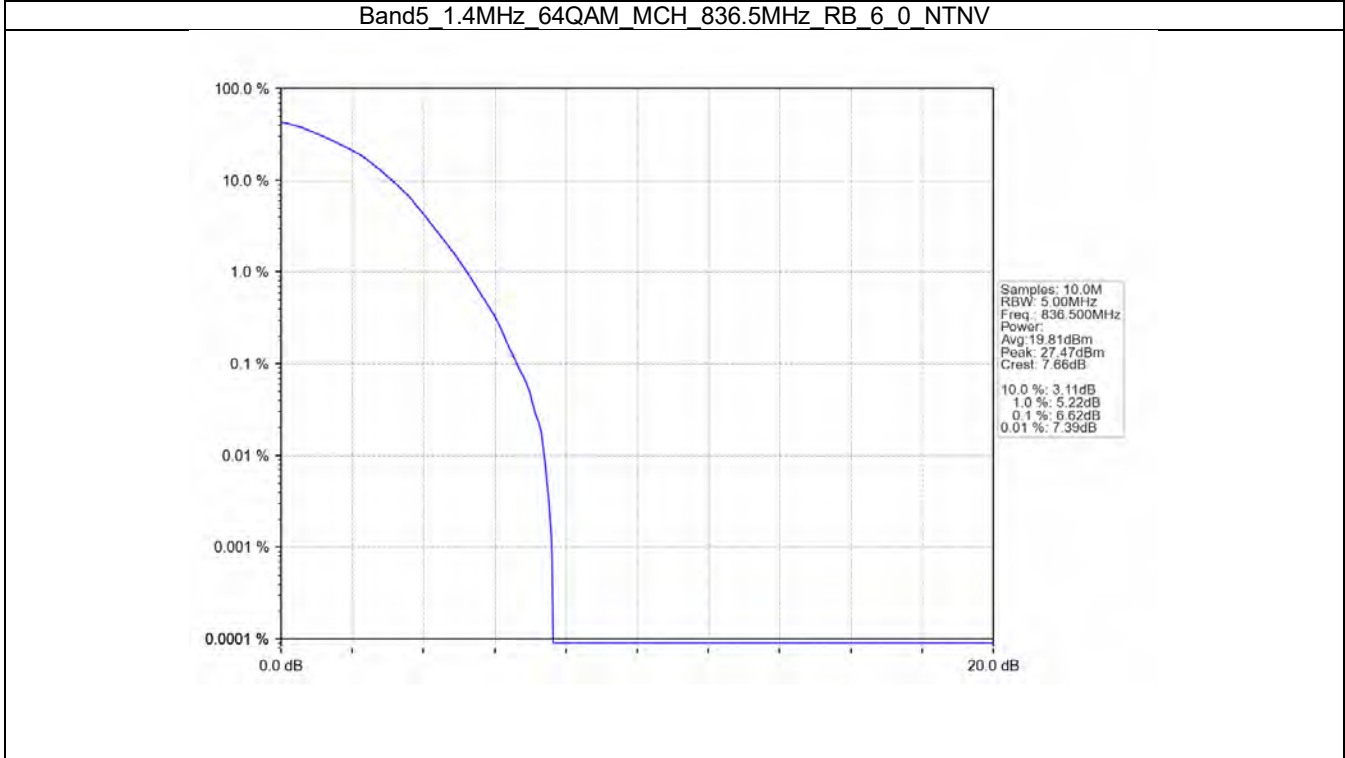
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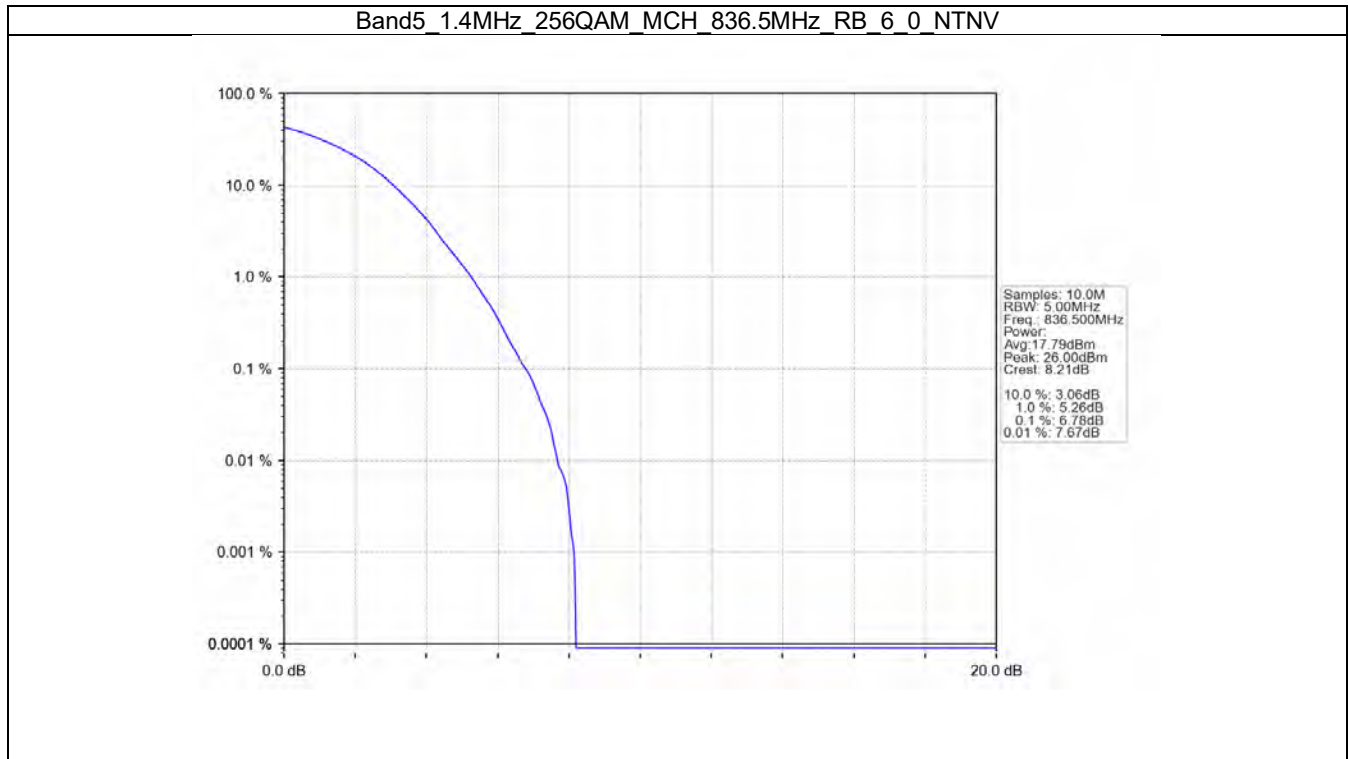
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## 4.2 B5\_3MHz

### 4.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	4.57	<=13	Pass
	836.5	15	0	5.28	<=13	Pass
	847.5	15	0	6.48	<=13	Pass
16QAM	825.5	15	0	5.39	<=13	Pass
	836.5	15	0	6.10	<=13	Pass
	847.5	15	0	6.49	<=13	Pass
64QAM	825.5	15	0	5.97	<=13	Pass
	836.5	15	0	6.43	<=13	Pass
	847.5	15	0	6.49	<=13	Pass
256QAM	825.5	15	0	6.61	<=13	Pass
	836.5	15	0	6.64	<=13	Pass
	847.5	15	0	6.74	<=13	Pass



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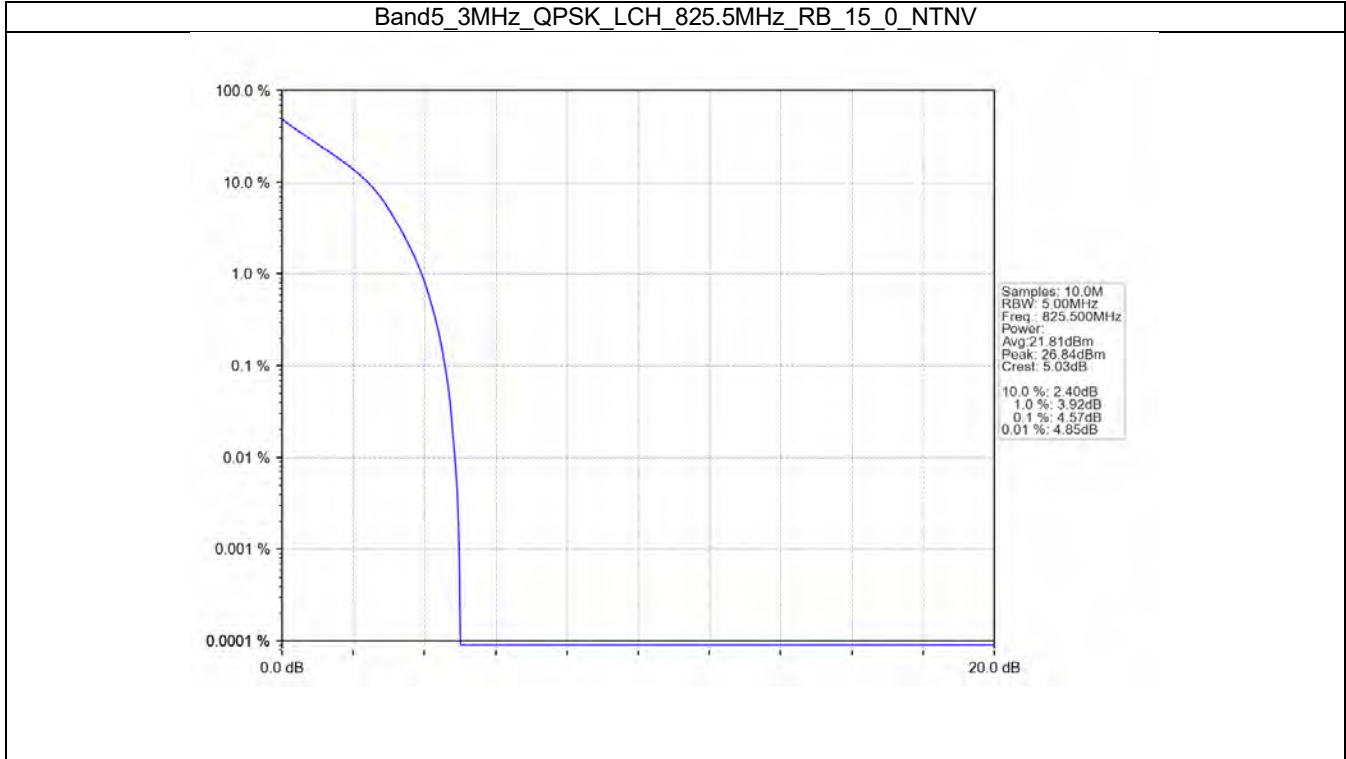
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4.2.2 Test Graph



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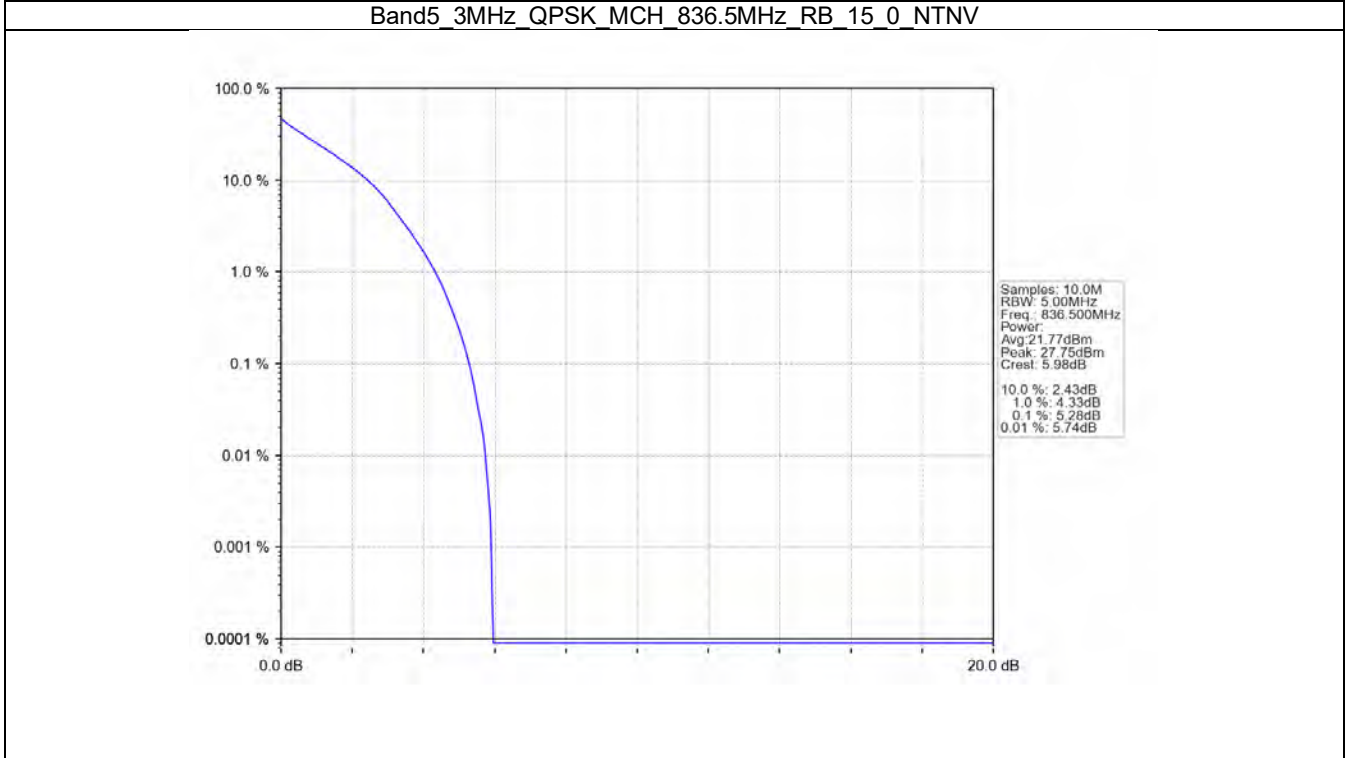
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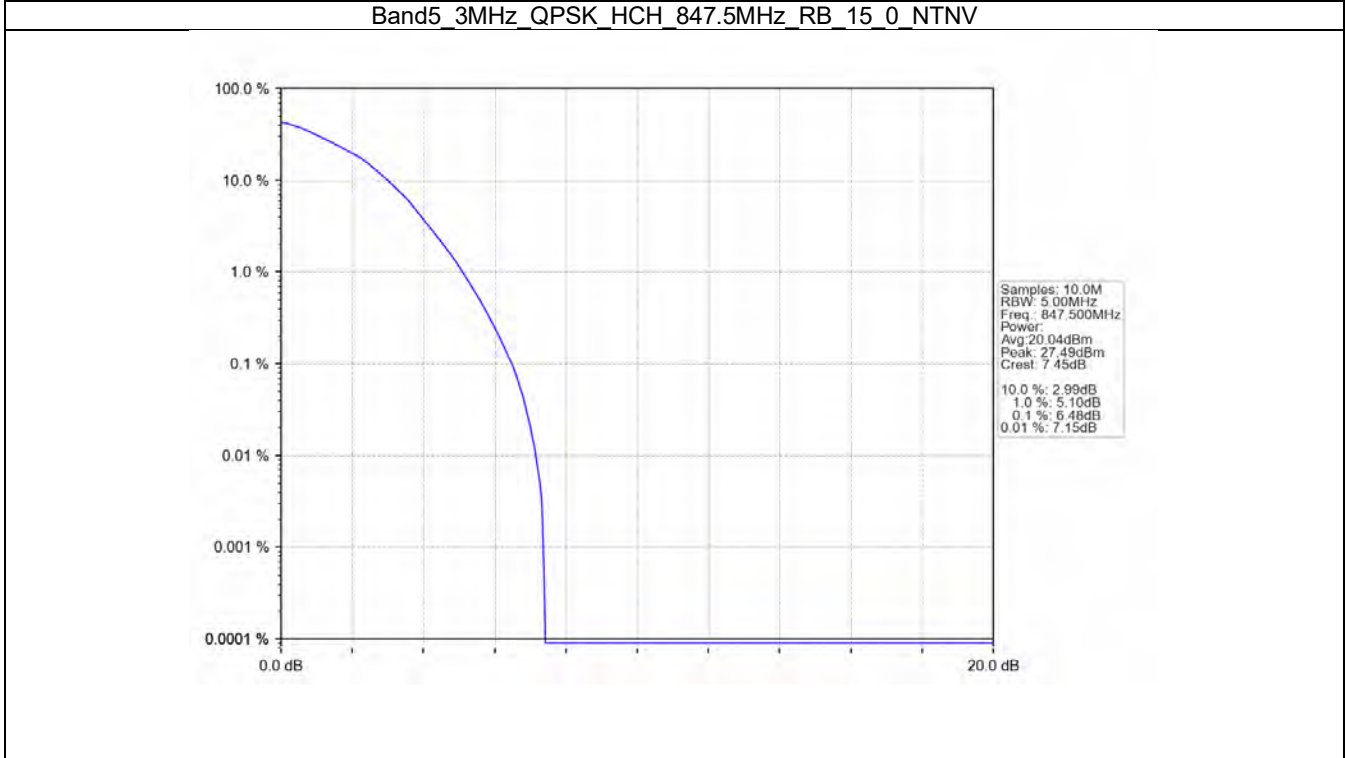
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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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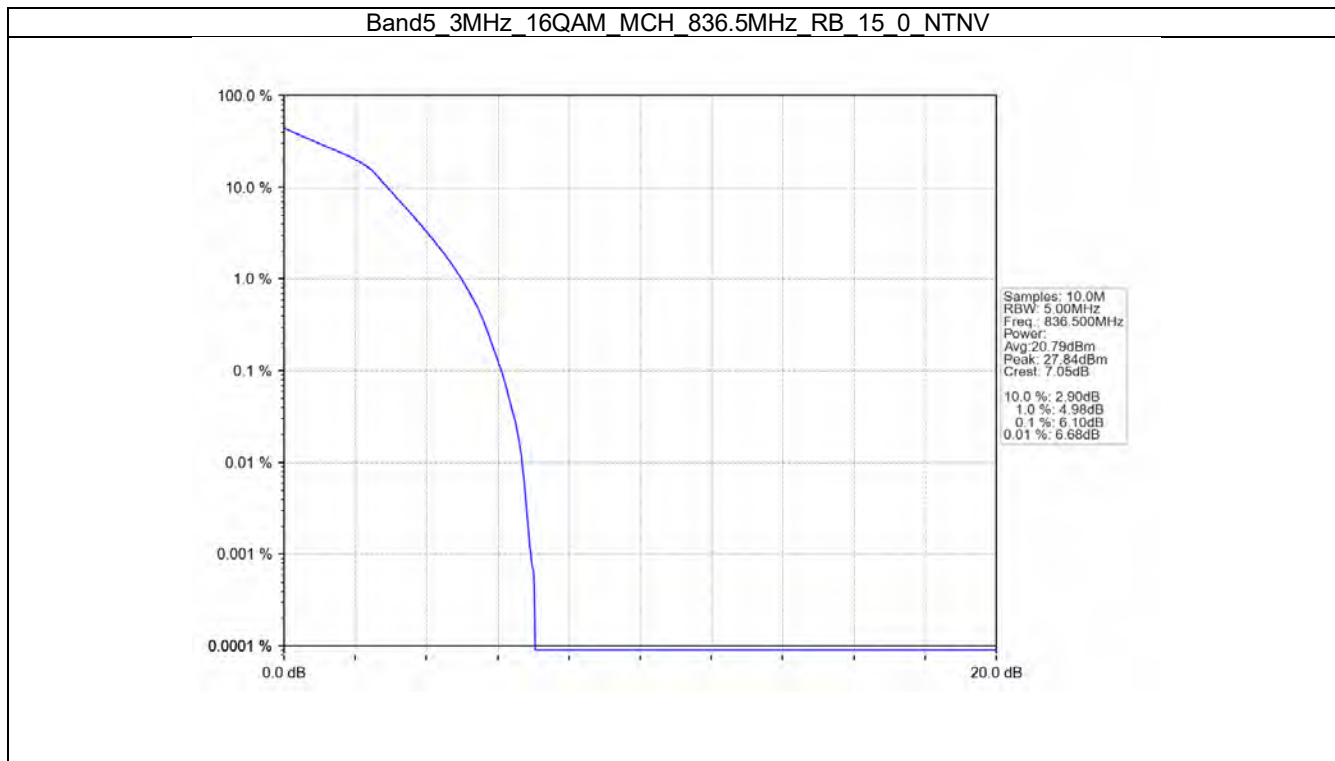
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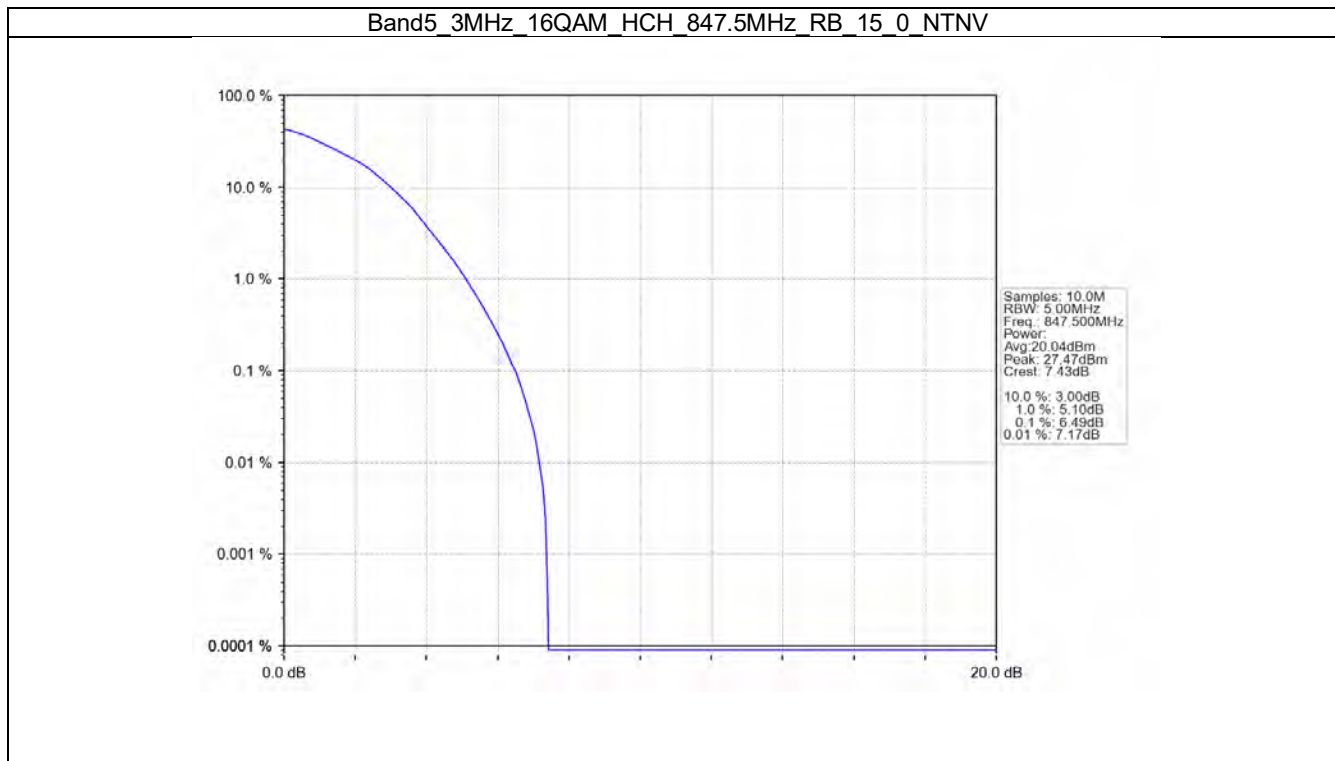
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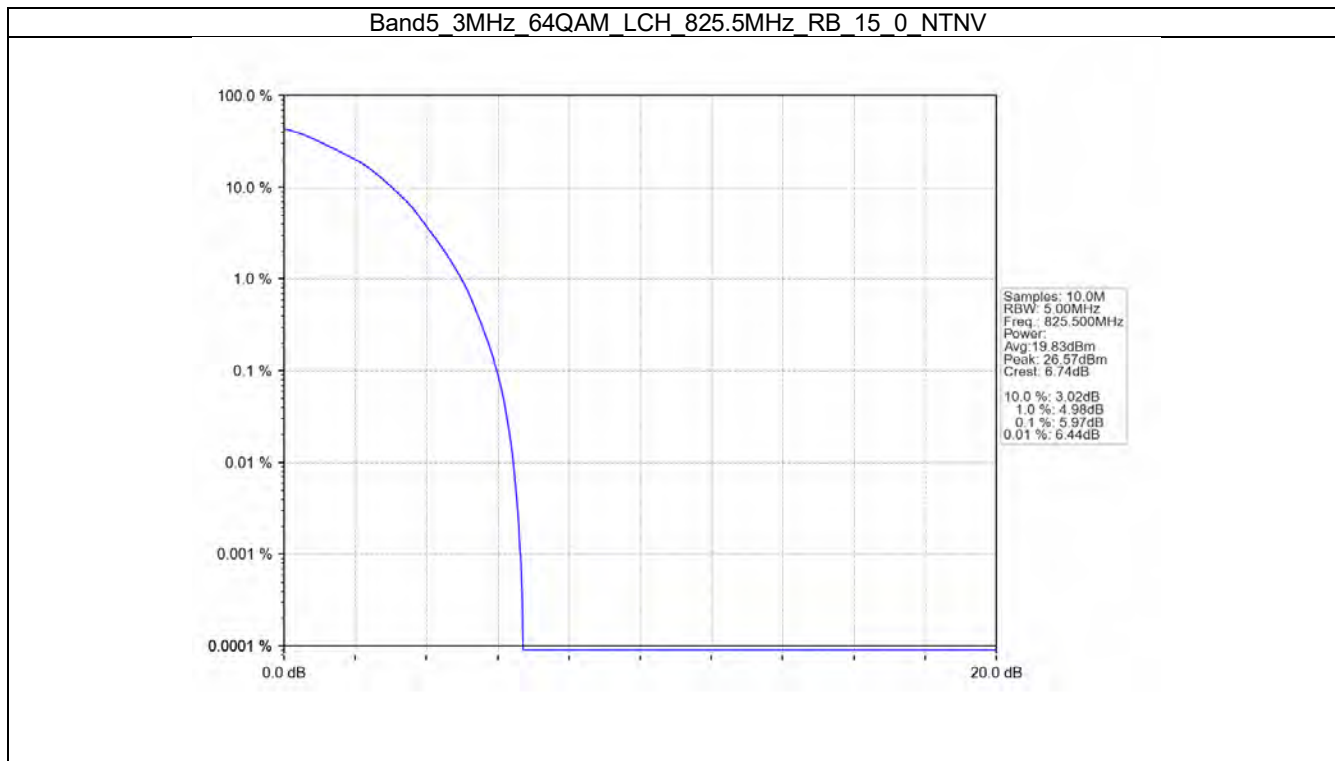
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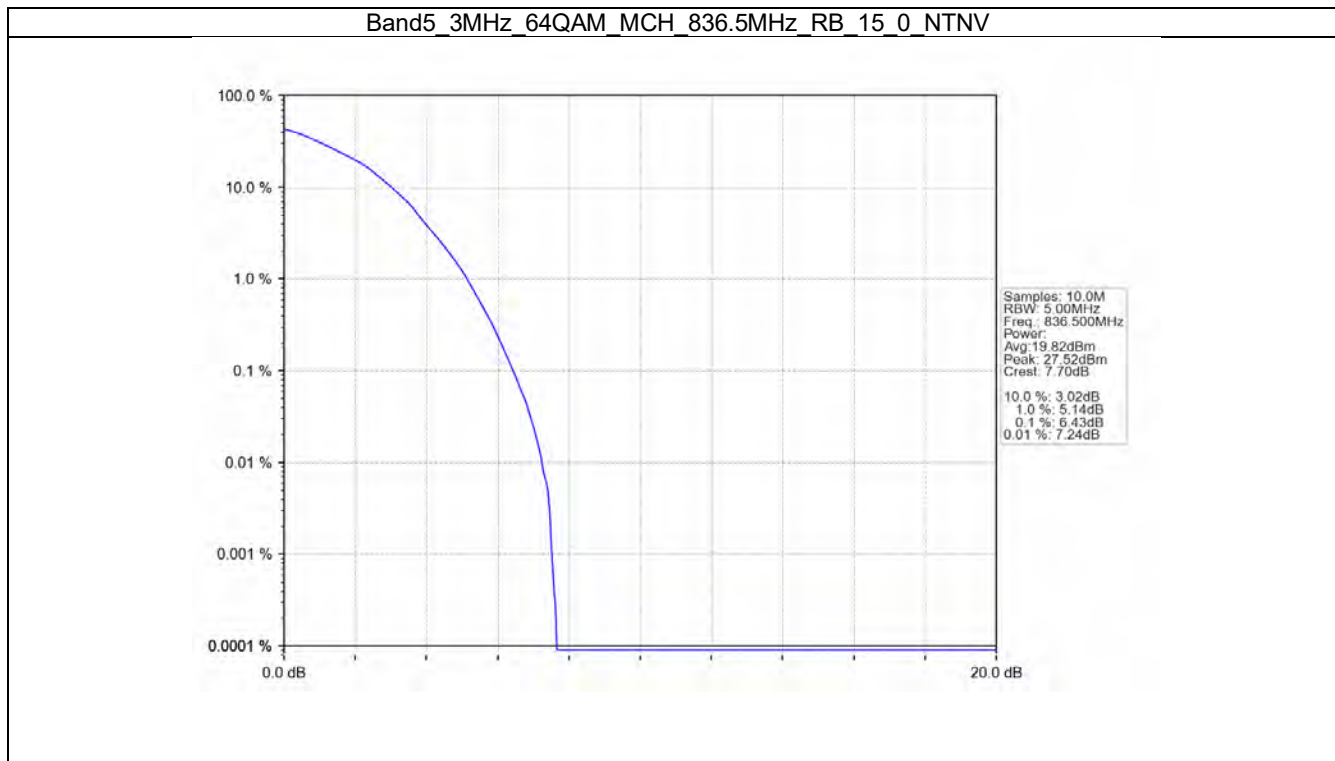
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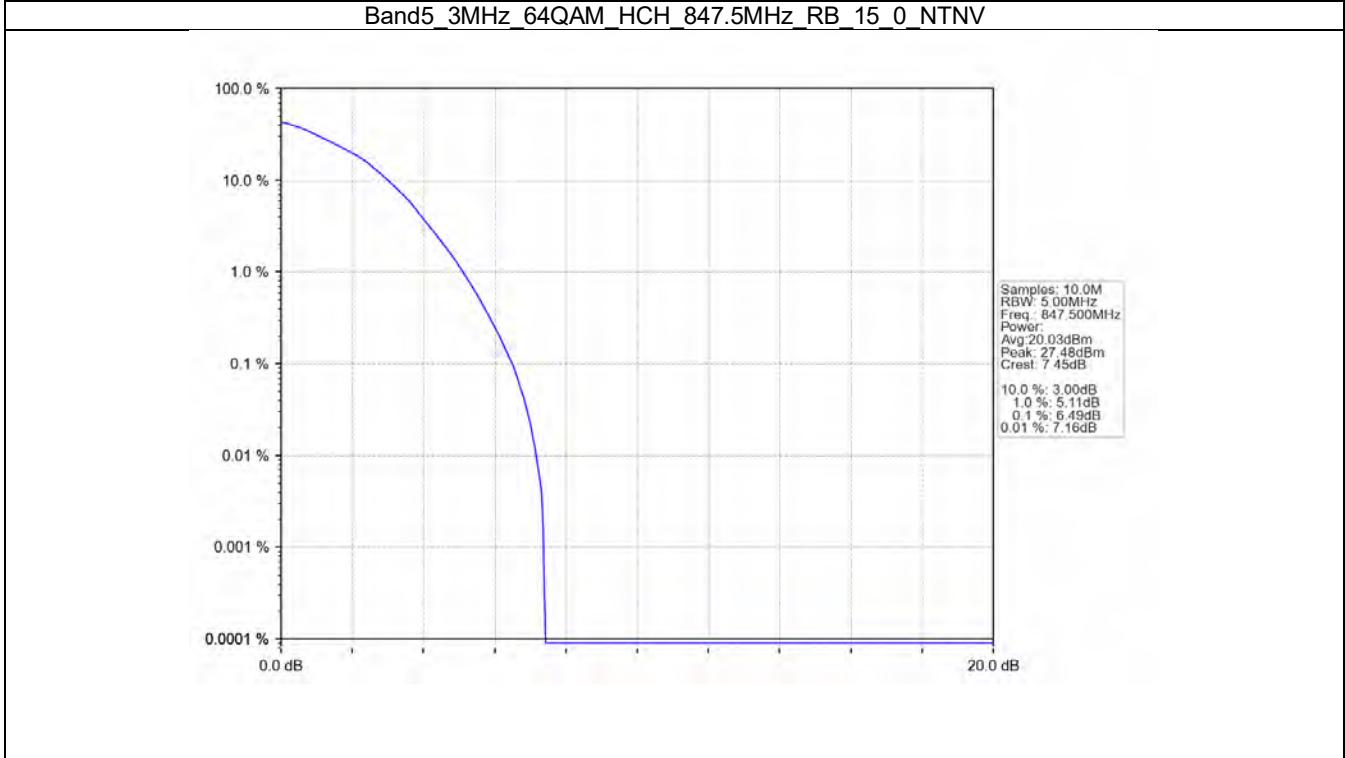
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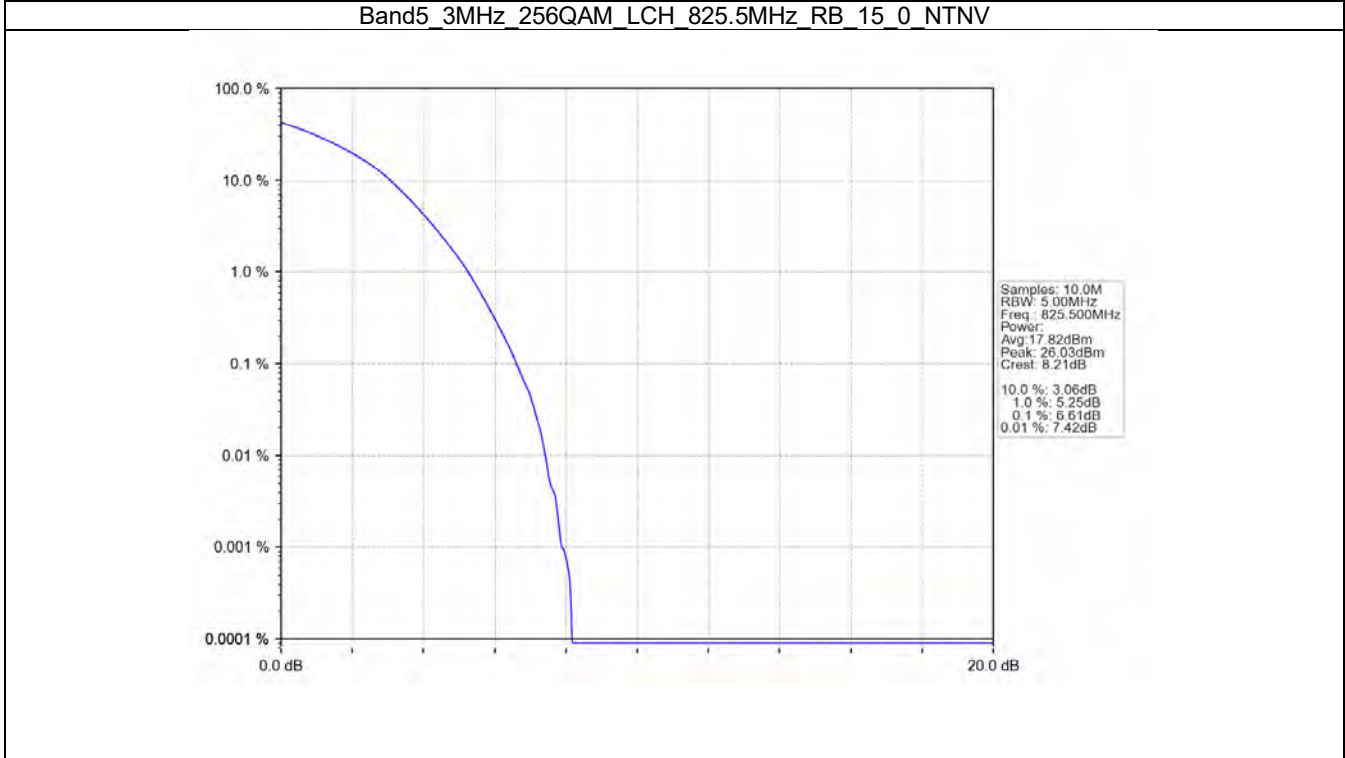
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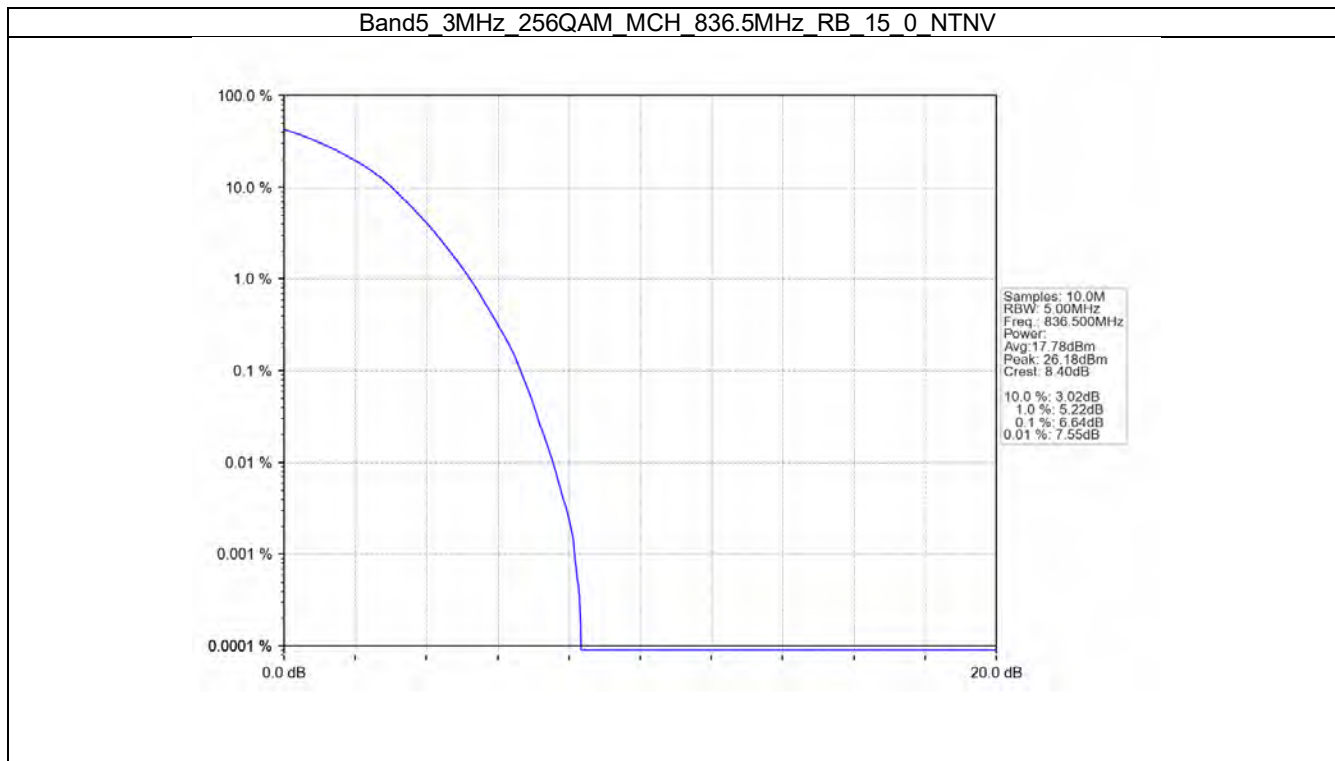
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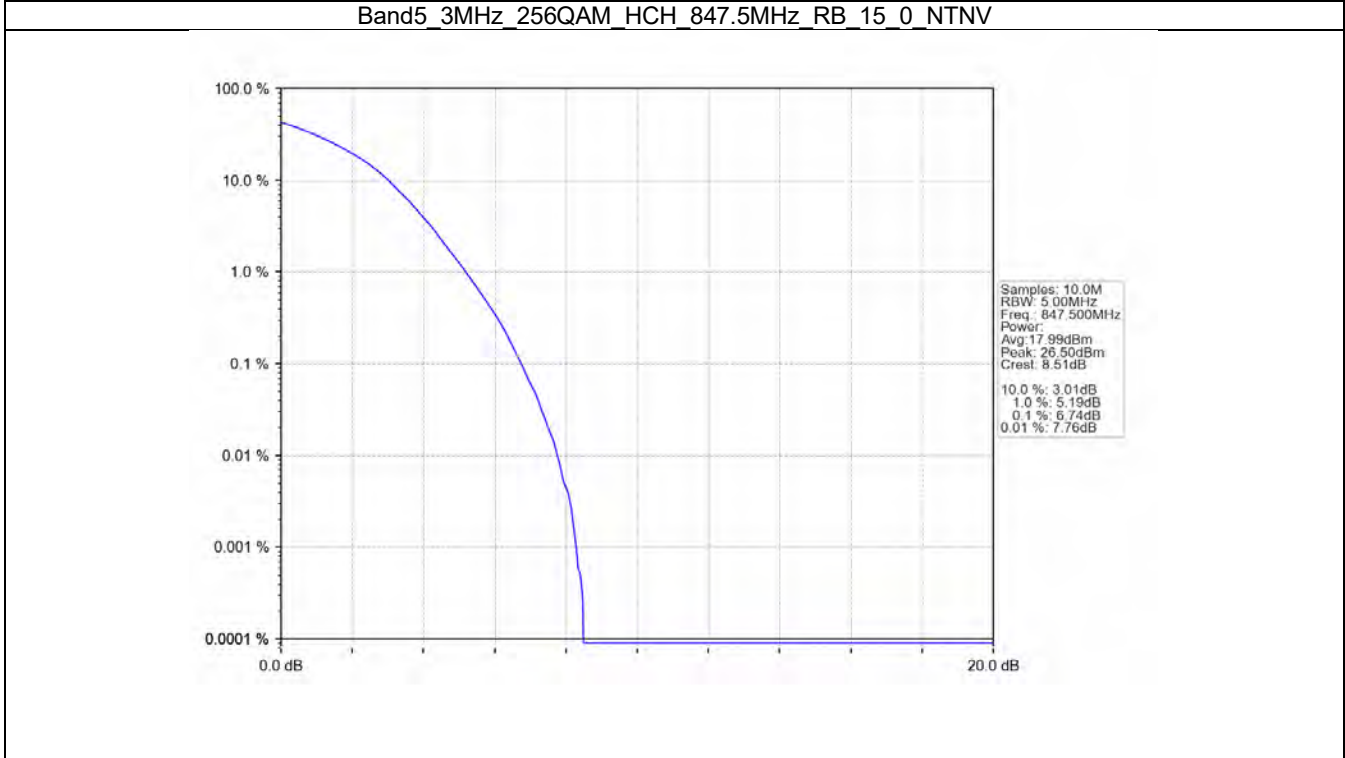
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### 4.3 B5\_5MHz

#### 4.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.97	<=13	Pass
	836.5	25	0	6.46	<=13	Pass
	846.5	25	0	6.34	<=13	Pass
16QAM	826.5	25	0	5.96	<=13	Pass
	836.5	25	0	6.46	<=13	Pass
	846.5	25	0	6.34	<=13	Pass
64QAM	826.5	25	0	5.96	<=13	Pass
	836.5	25	0	6.45	<=13	Pass
	846.5	25	0	6.33	<=13	Pass
256QAM	826.5	25	0	6.49	<=13	Pass
	836.5	25	0	6.76	<=13	Pass
	846.5	25	0	6.68	<=13	Pass



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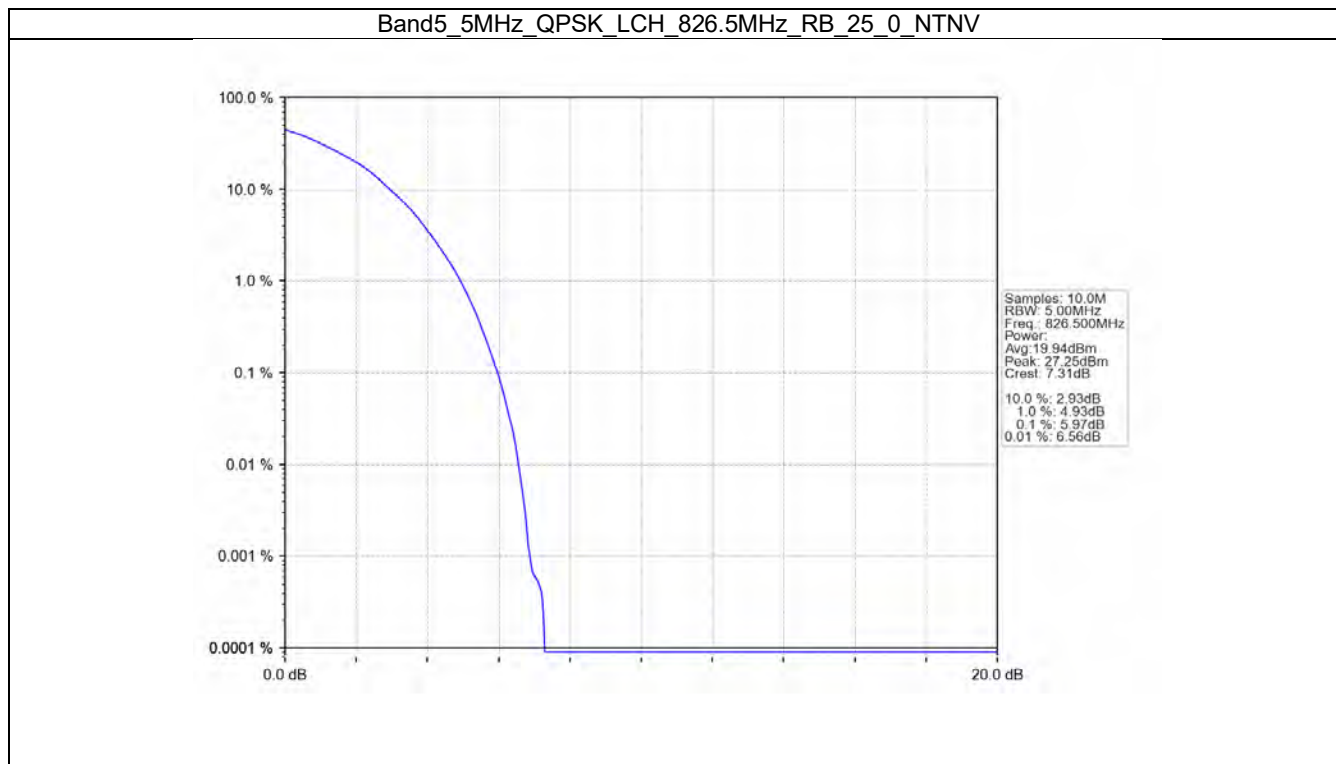
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### 4.3.2 Test Graph



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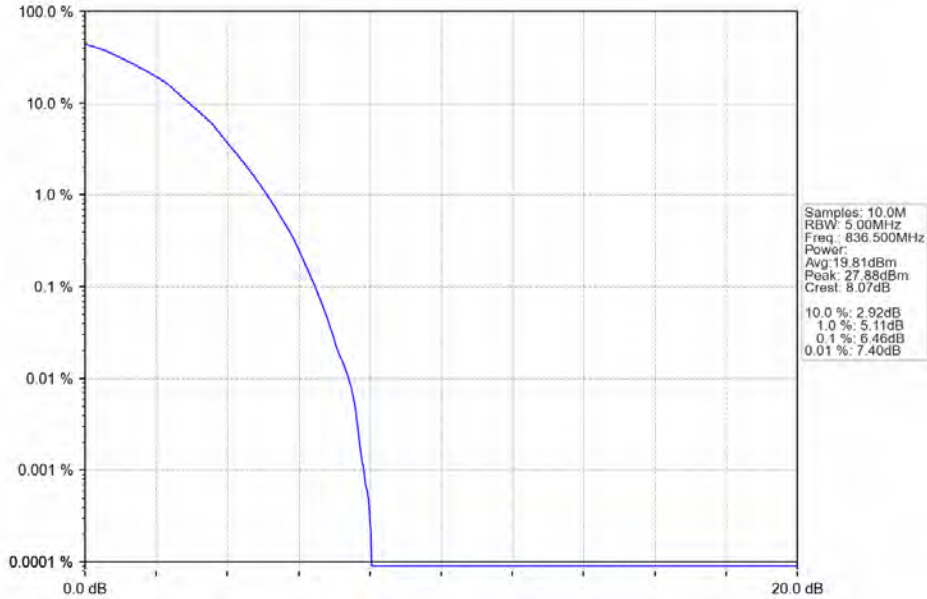
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Band5 5MHz QPSK MCH 836.5MHz RB 25 0 NTNv



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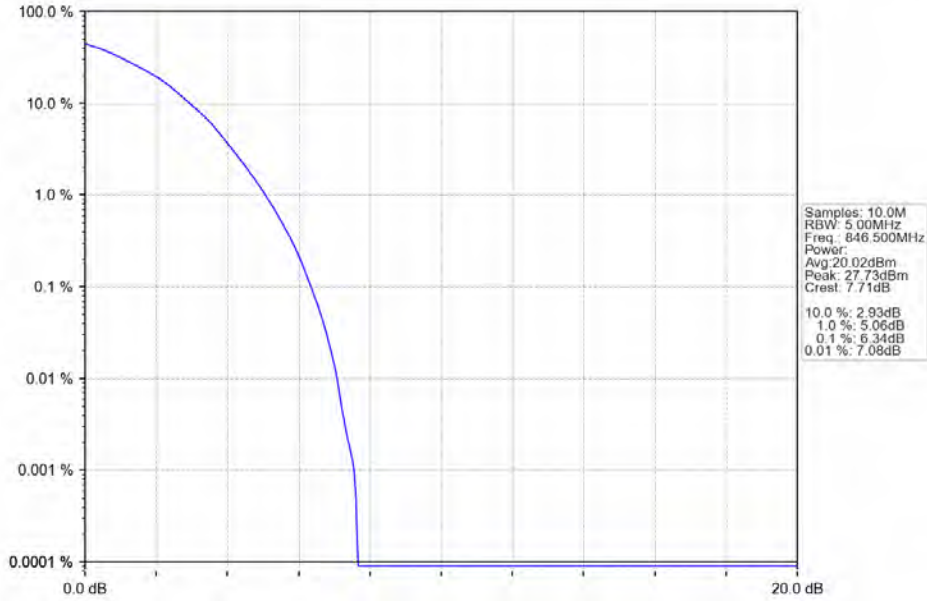
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



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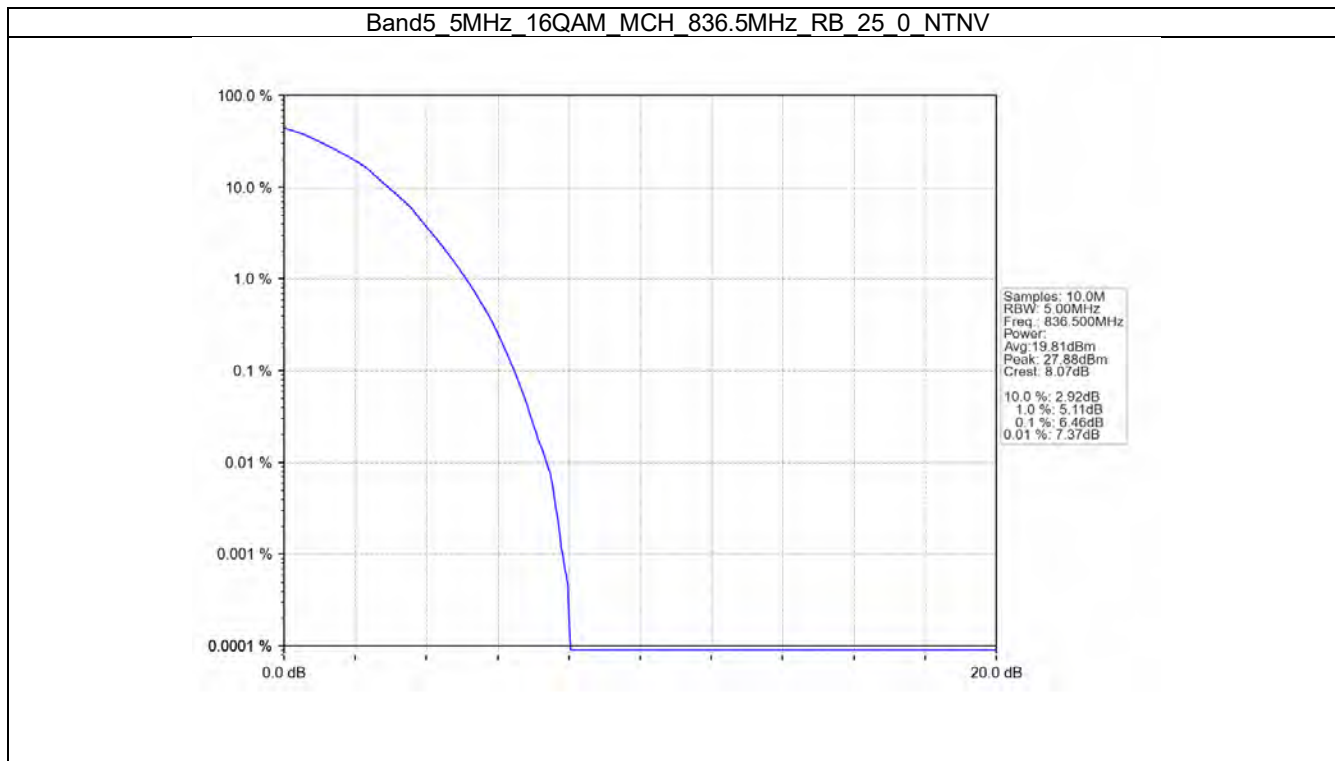
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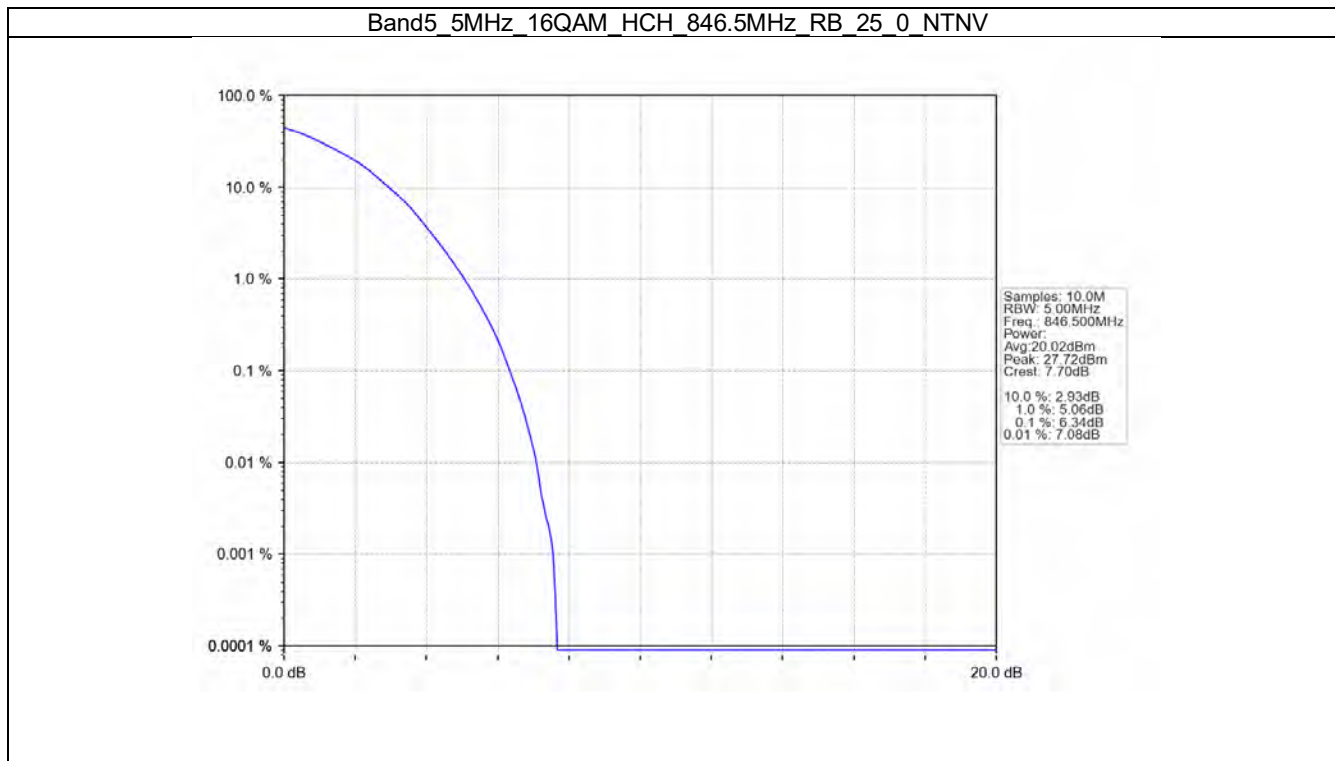
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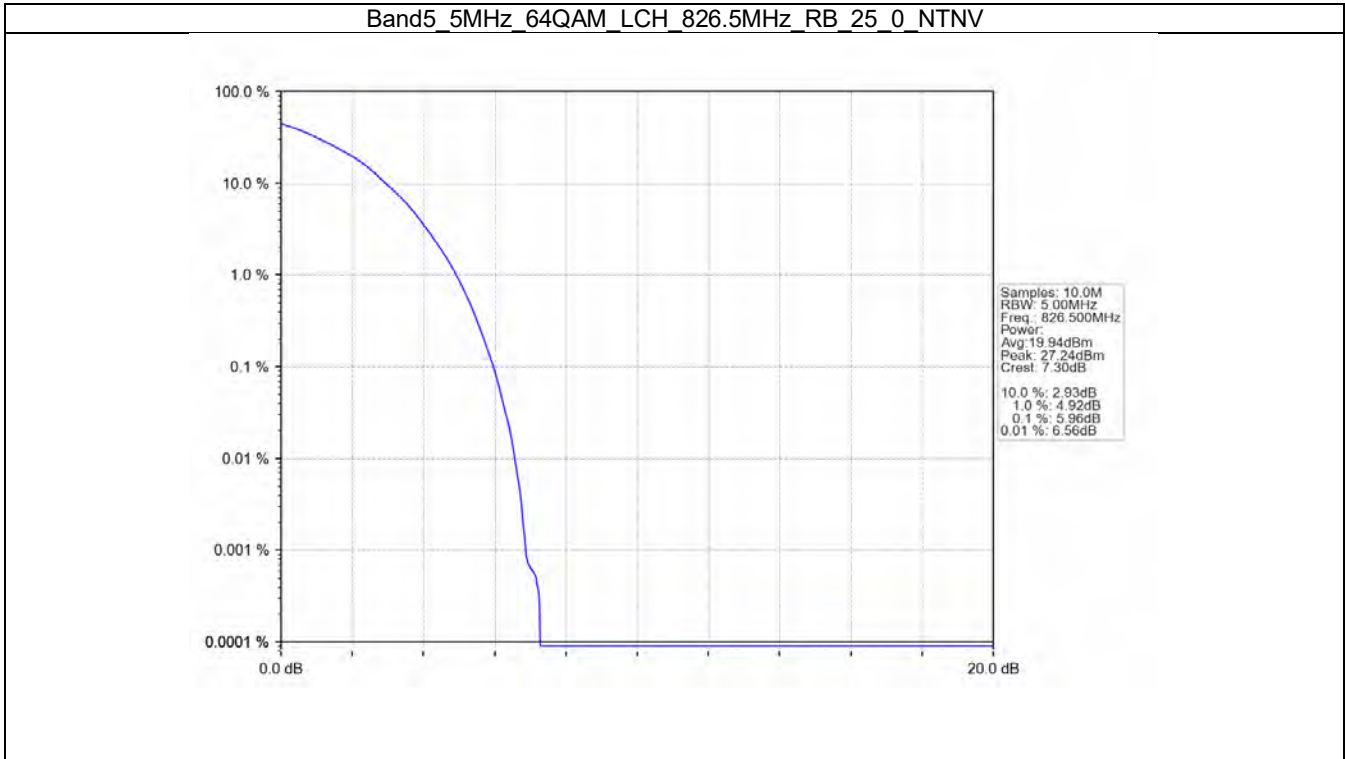
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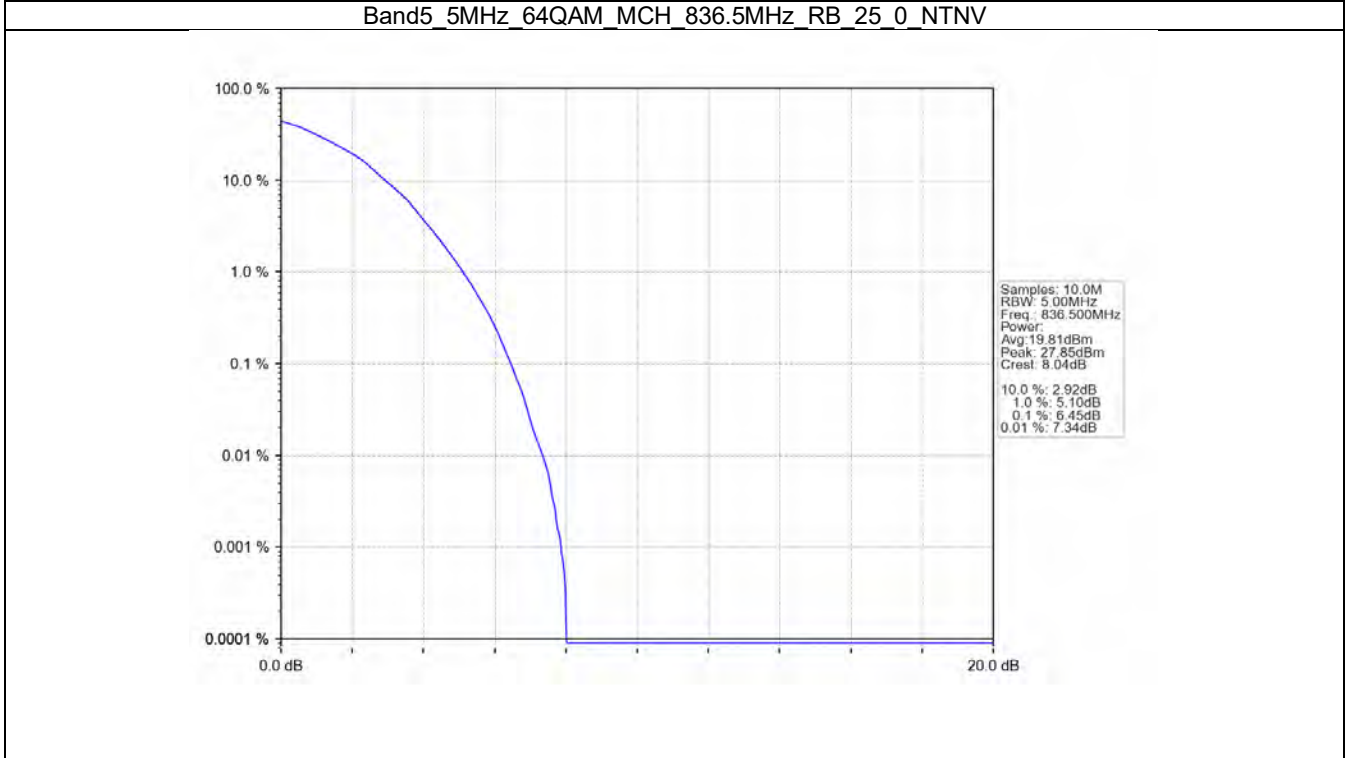
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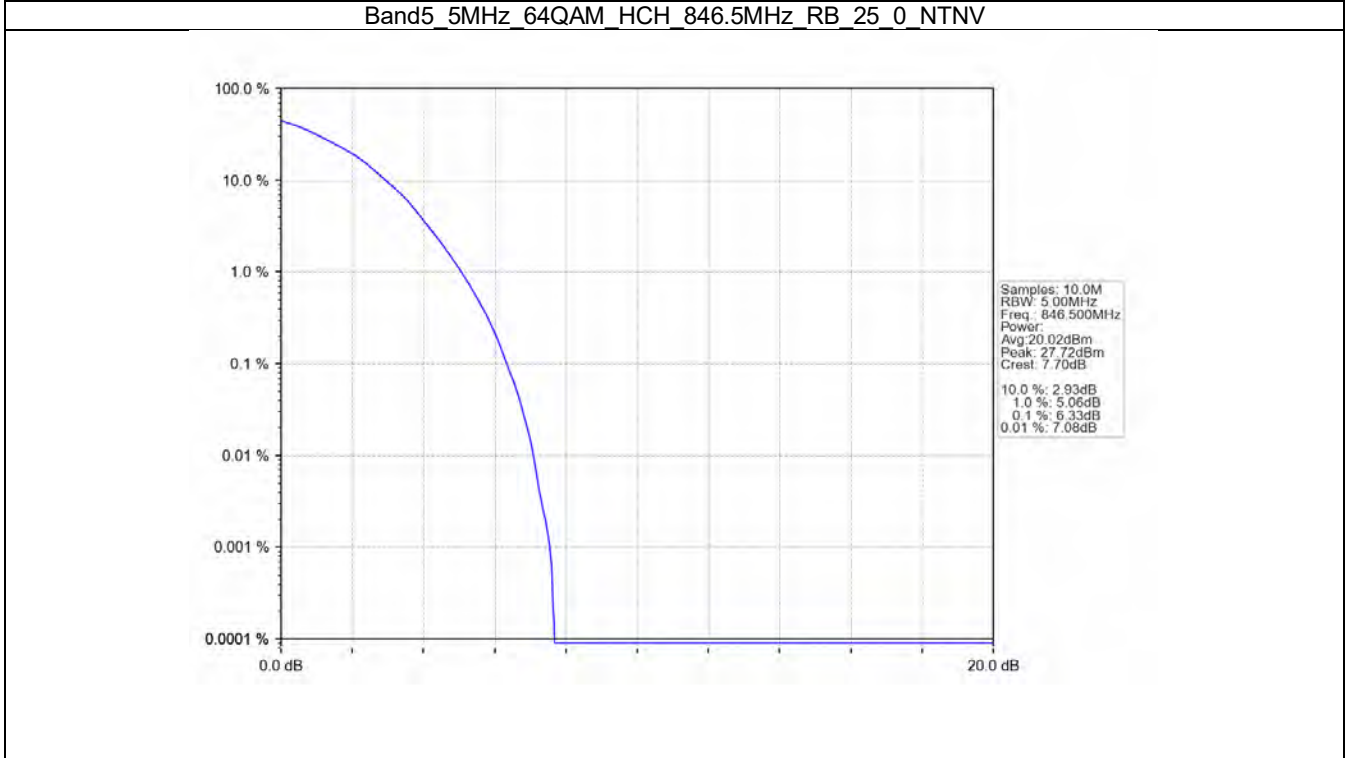
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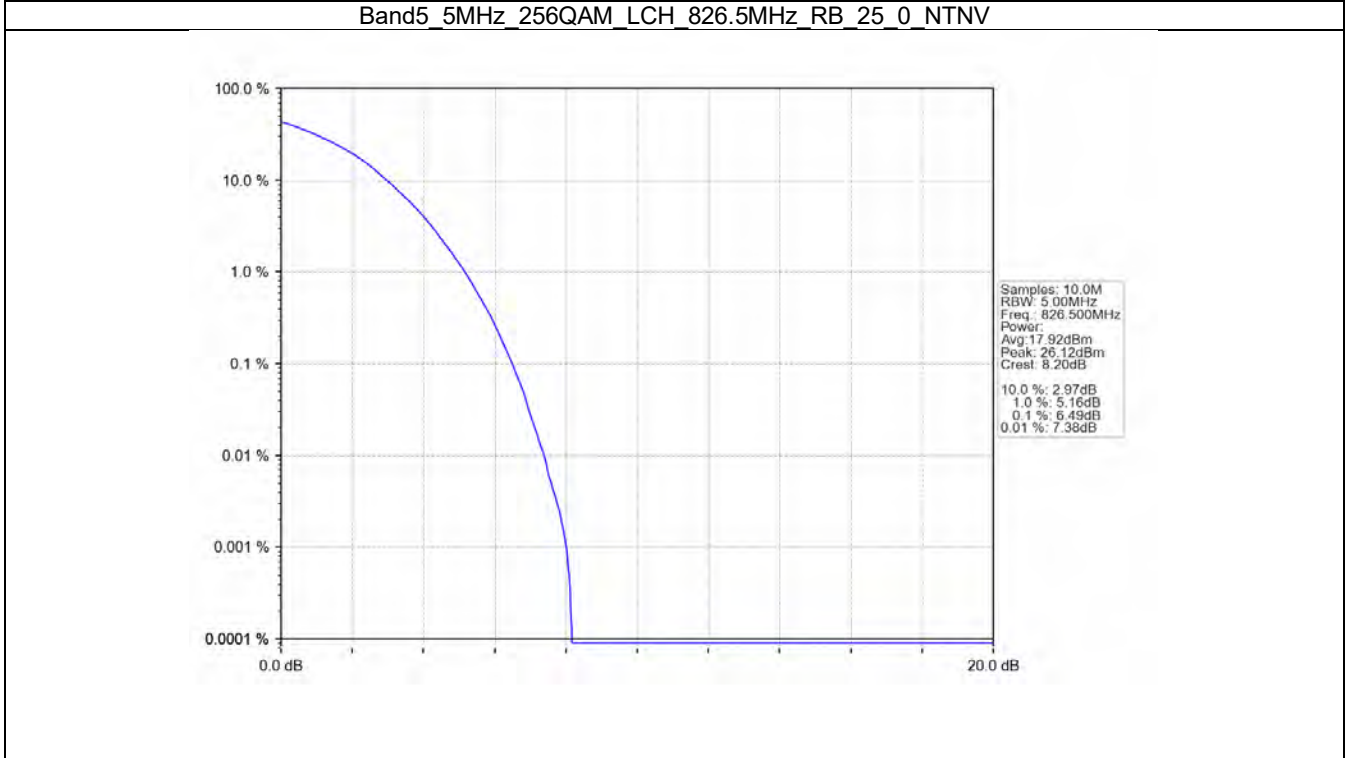
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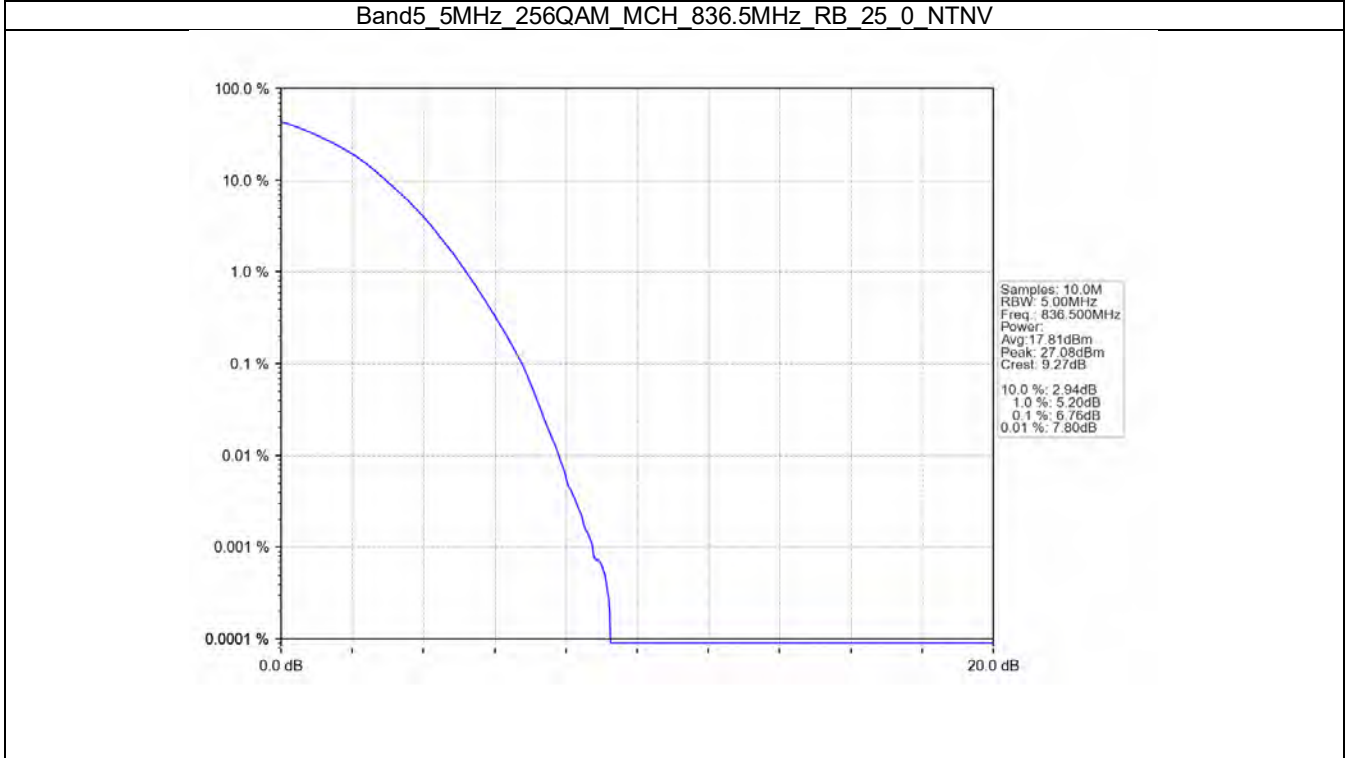
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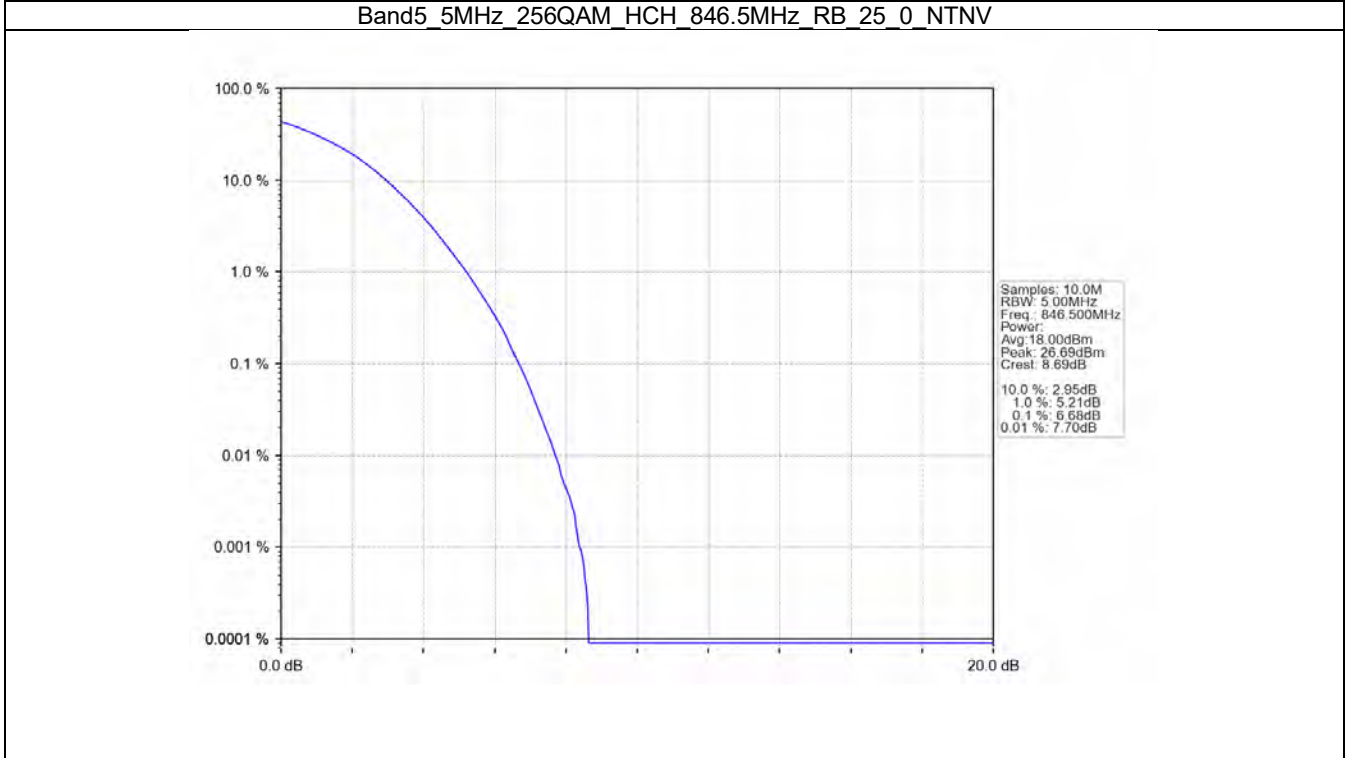
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#### 4.4 B5\_10MHz

##### 4.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	6.03	<=13	Pass
	836.5	50	0	6.37	<=13	Pass
	844	50	0	6.39	<=13	Pass
16QAM	829	50	0	6.04	<=13	Pass
	836.5	50	0	6.38	<=13	Pass
	844	50	0	6.39	<=13	Pass
64QAM	829	50	0	6.03	<=13	Pass
	836.5	50	0	6.37	<=13	Pass
	844	50	0	6.39	<=13	Pass
256QAM	829	50	0	6.55	<=13	Pass
	836.5	50	0	6.58	<=13	Pass
	844	50	0	6.71	<=13	Pass



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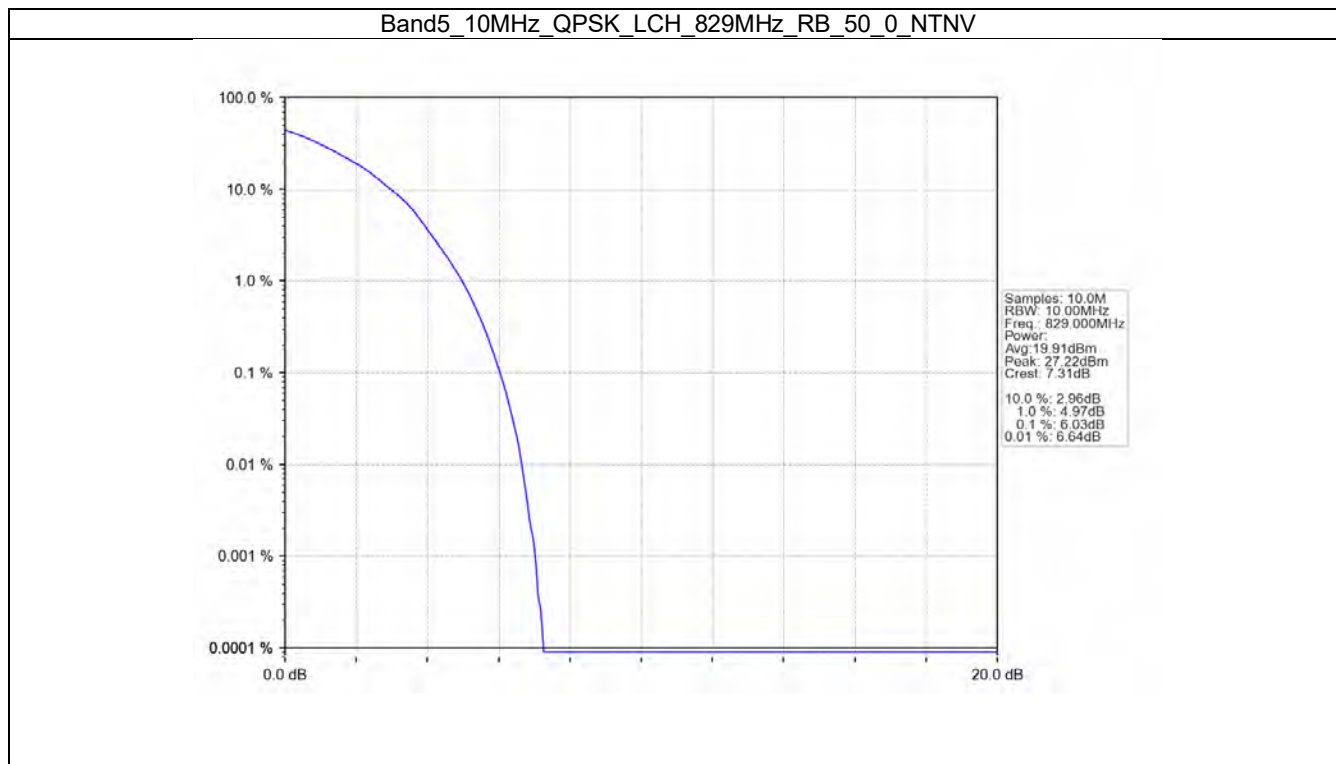
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### 4.4.2 Test Graph



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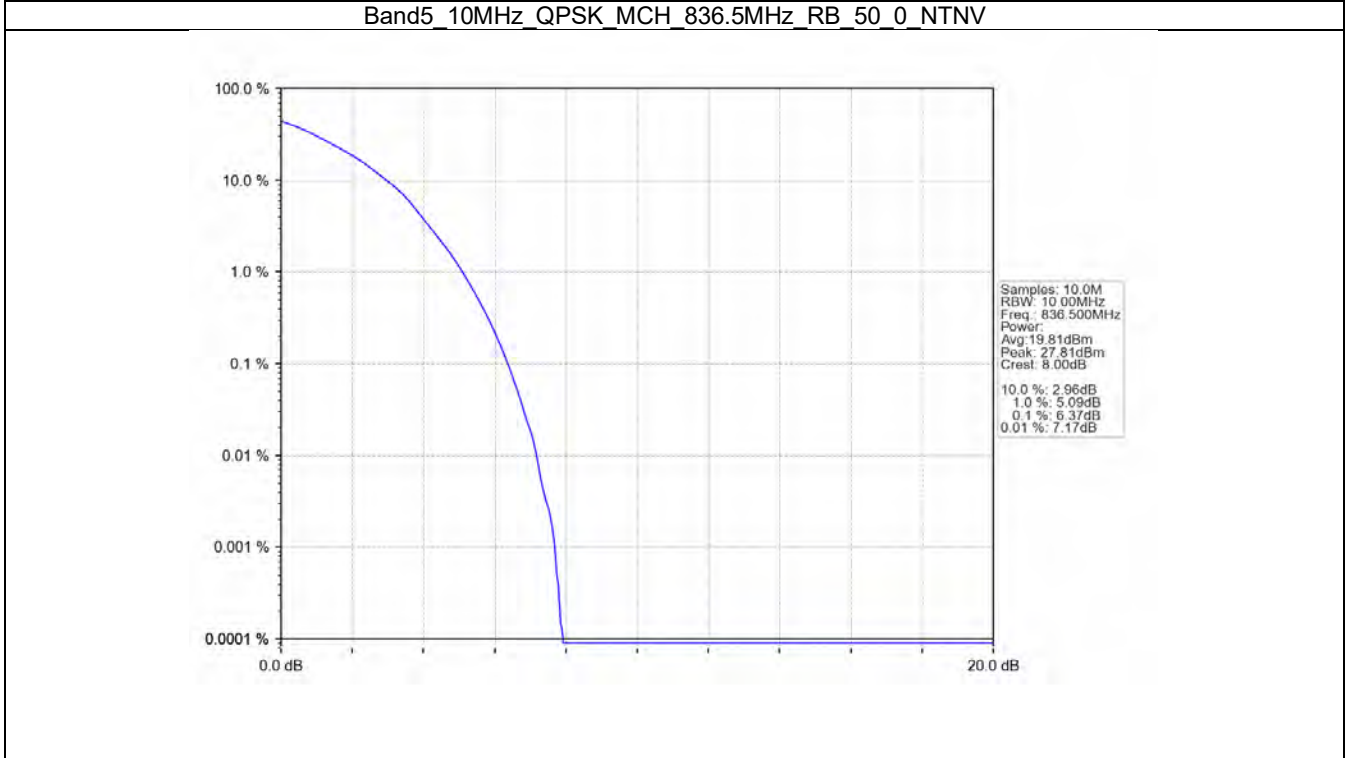
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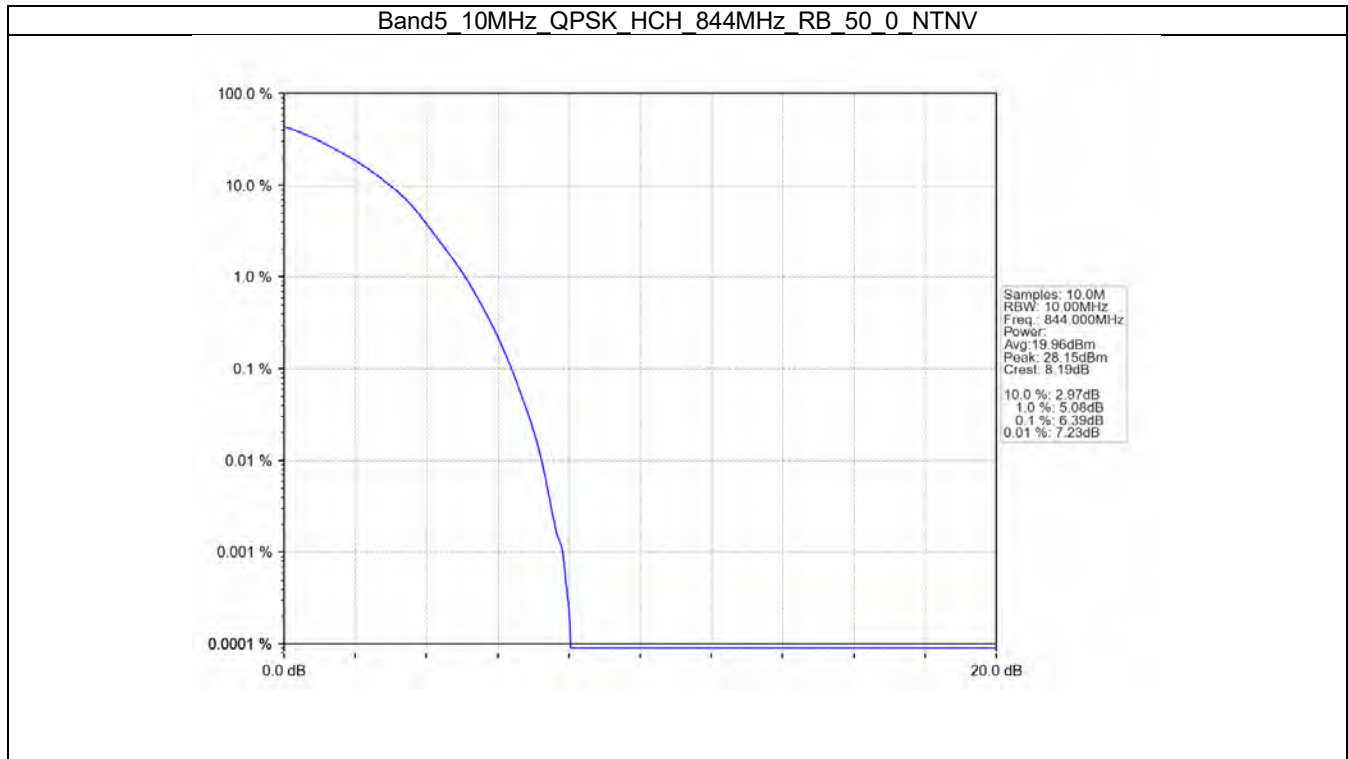
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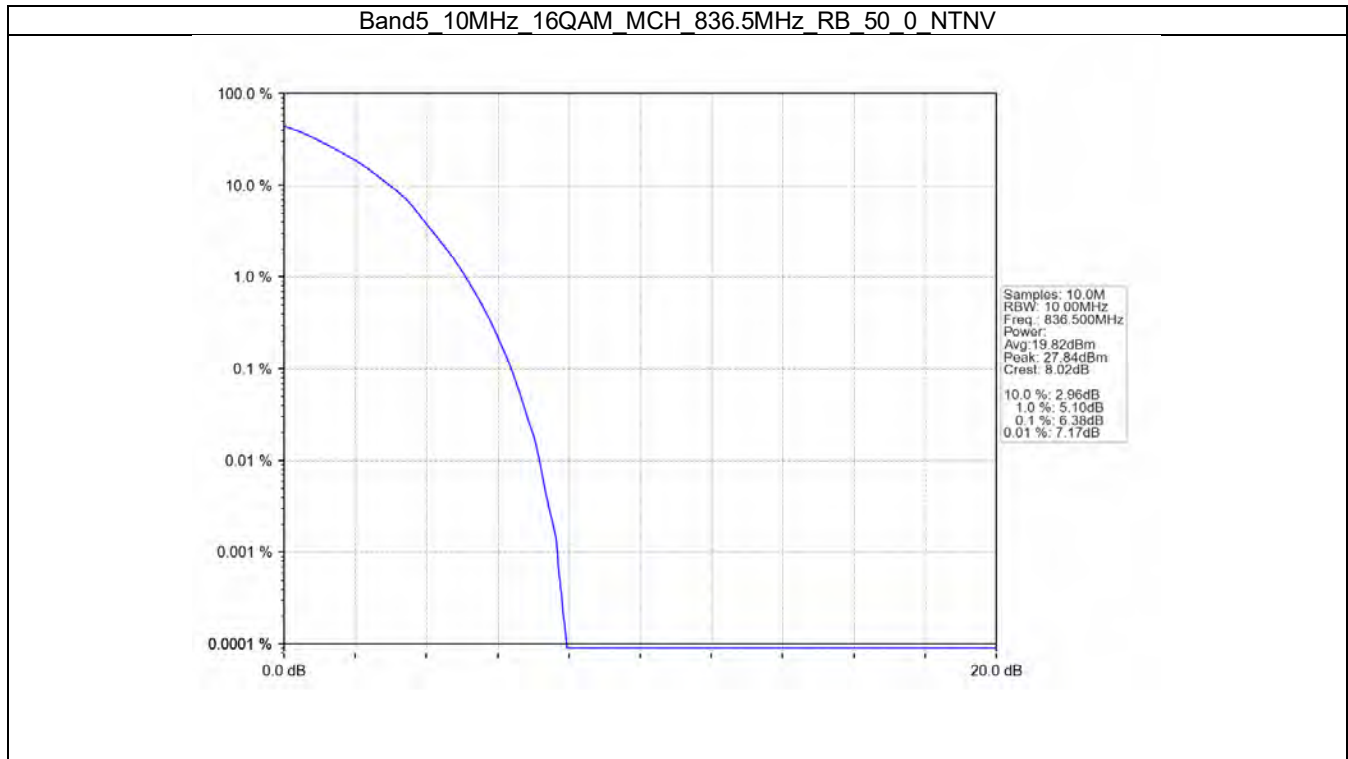
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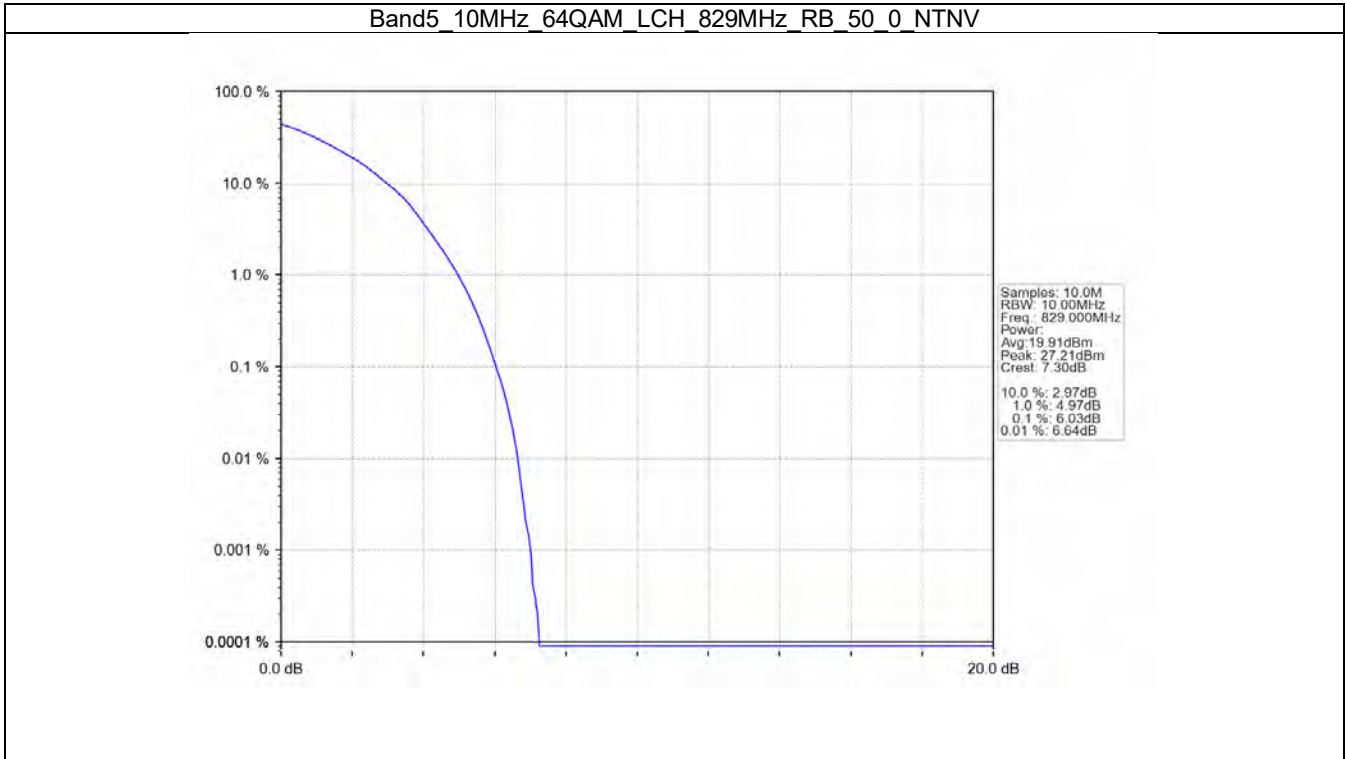
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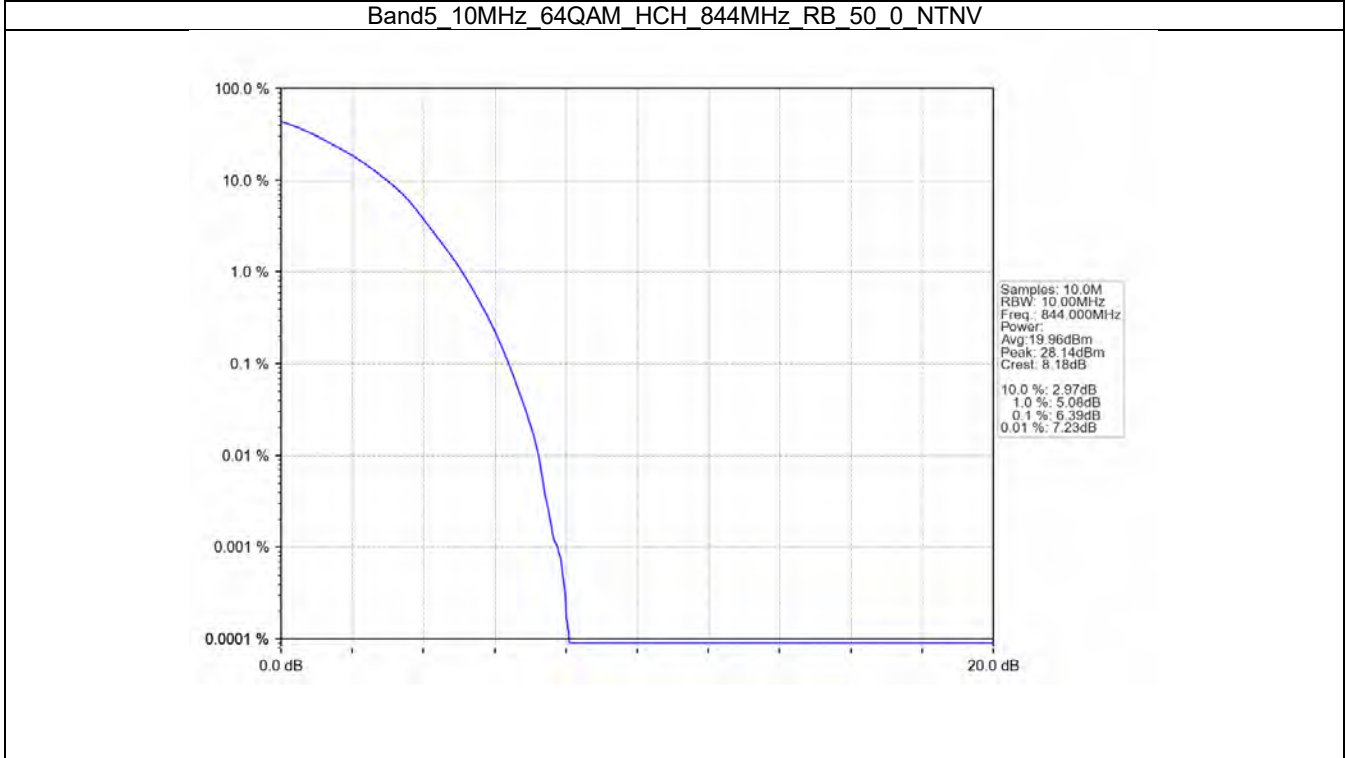
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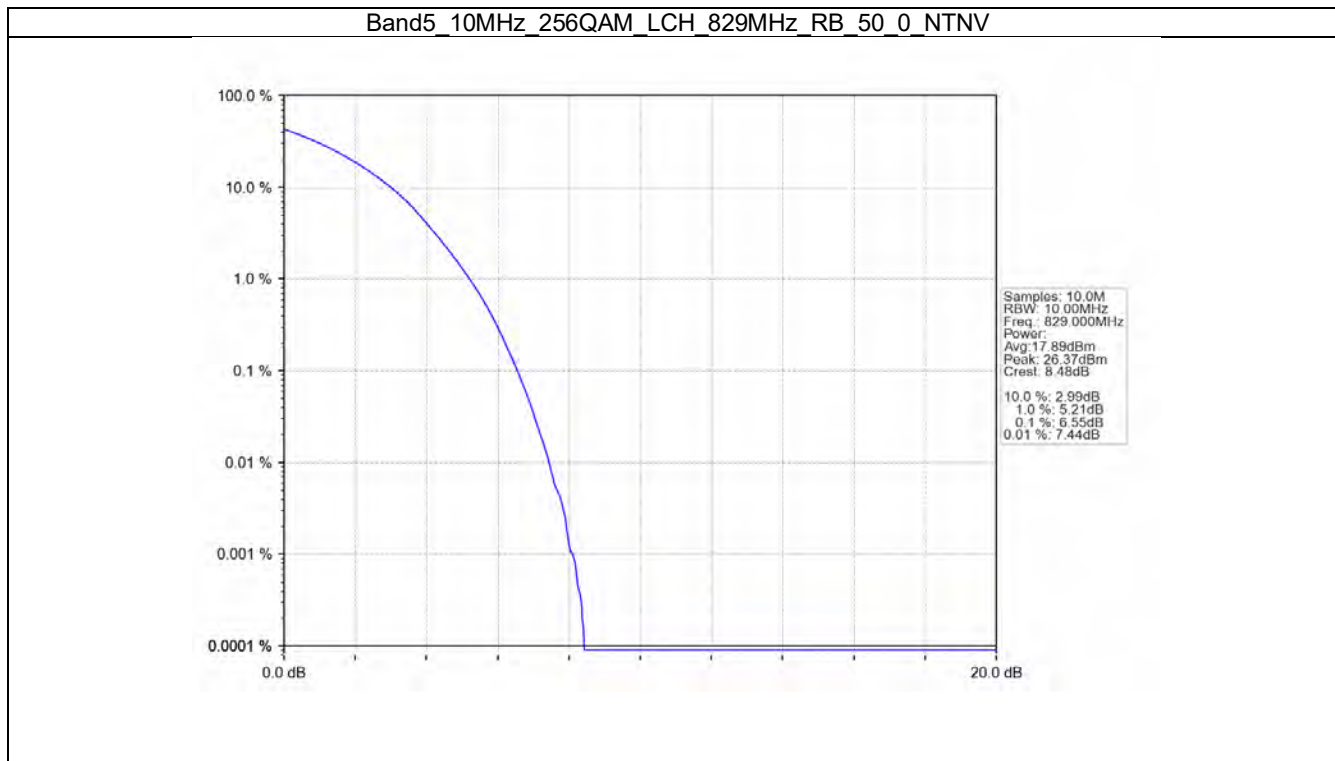
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## 5. Spurious Emission & Band Edges

### 5.1 B5\_1.4MHz

#### 5.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
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
		6	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass



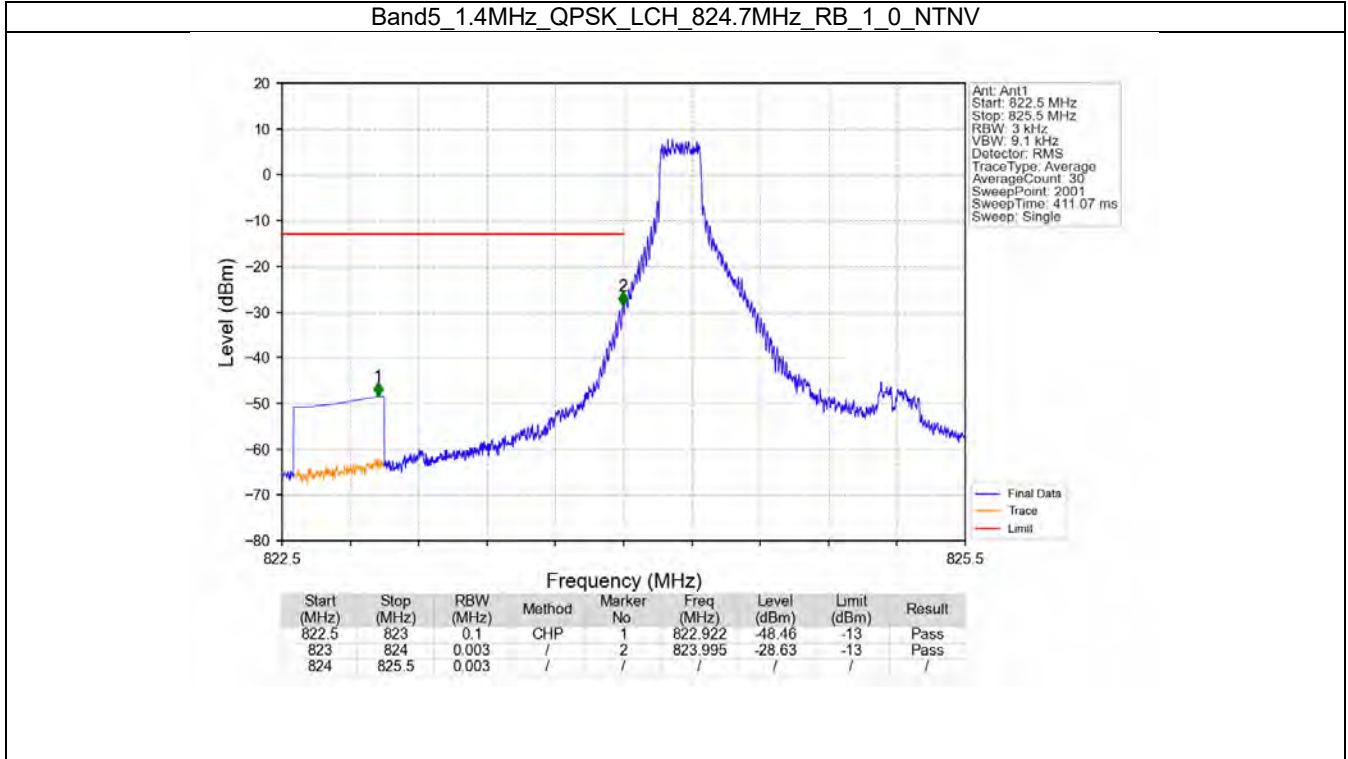
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5.1.2 Test Graph



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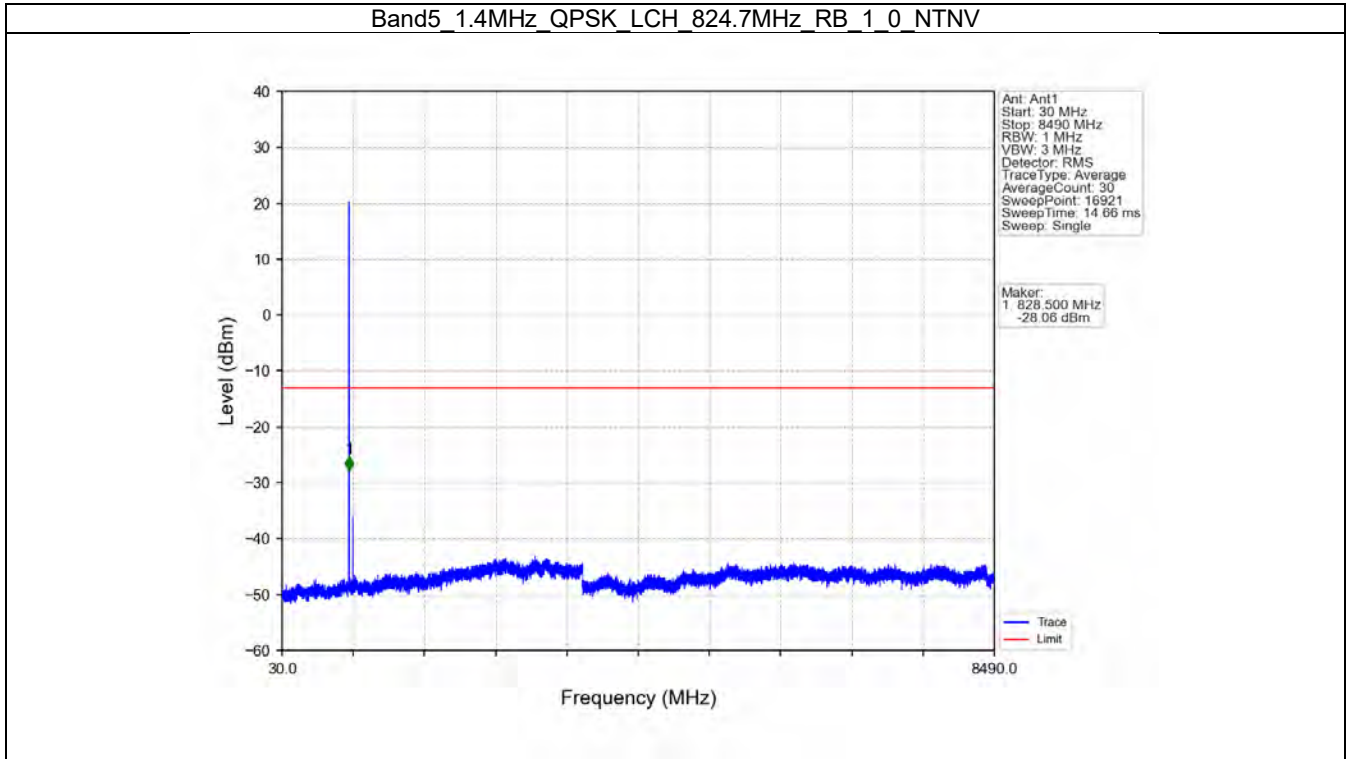
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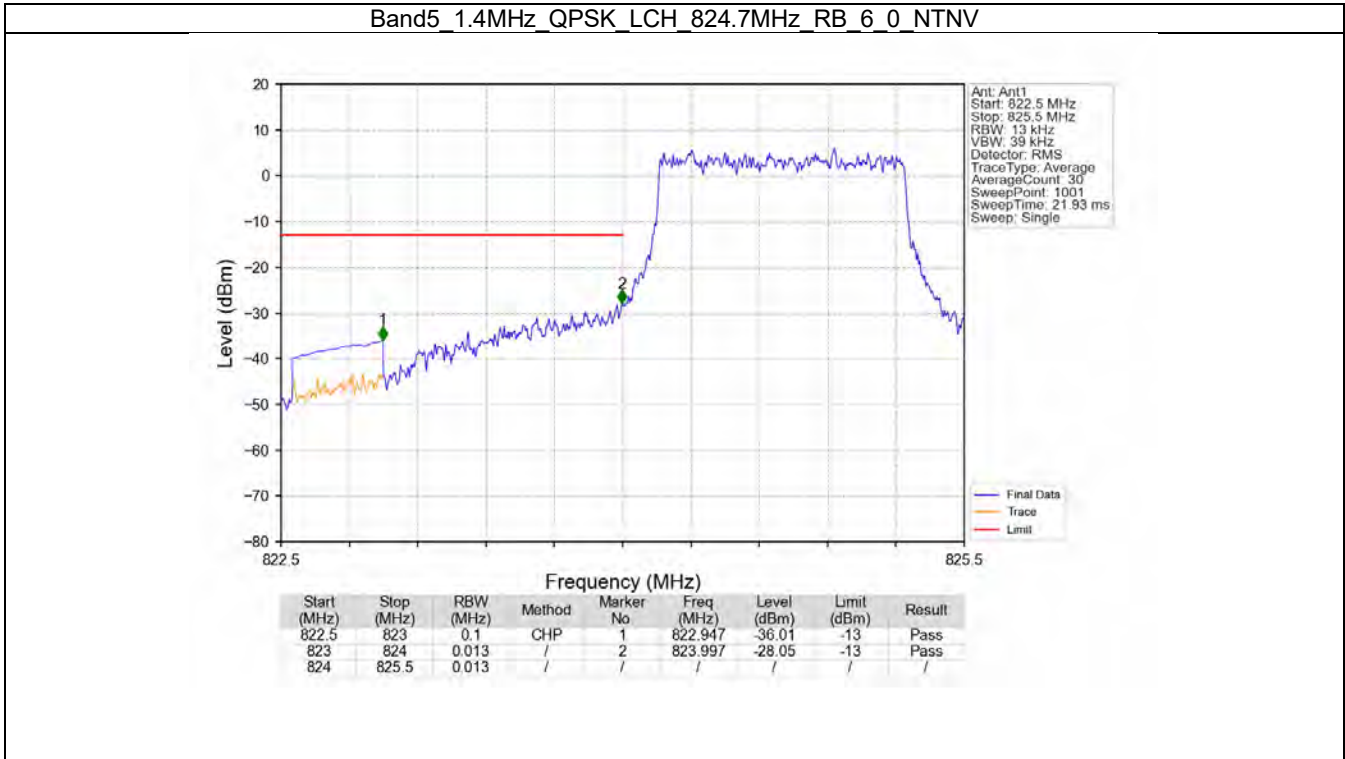
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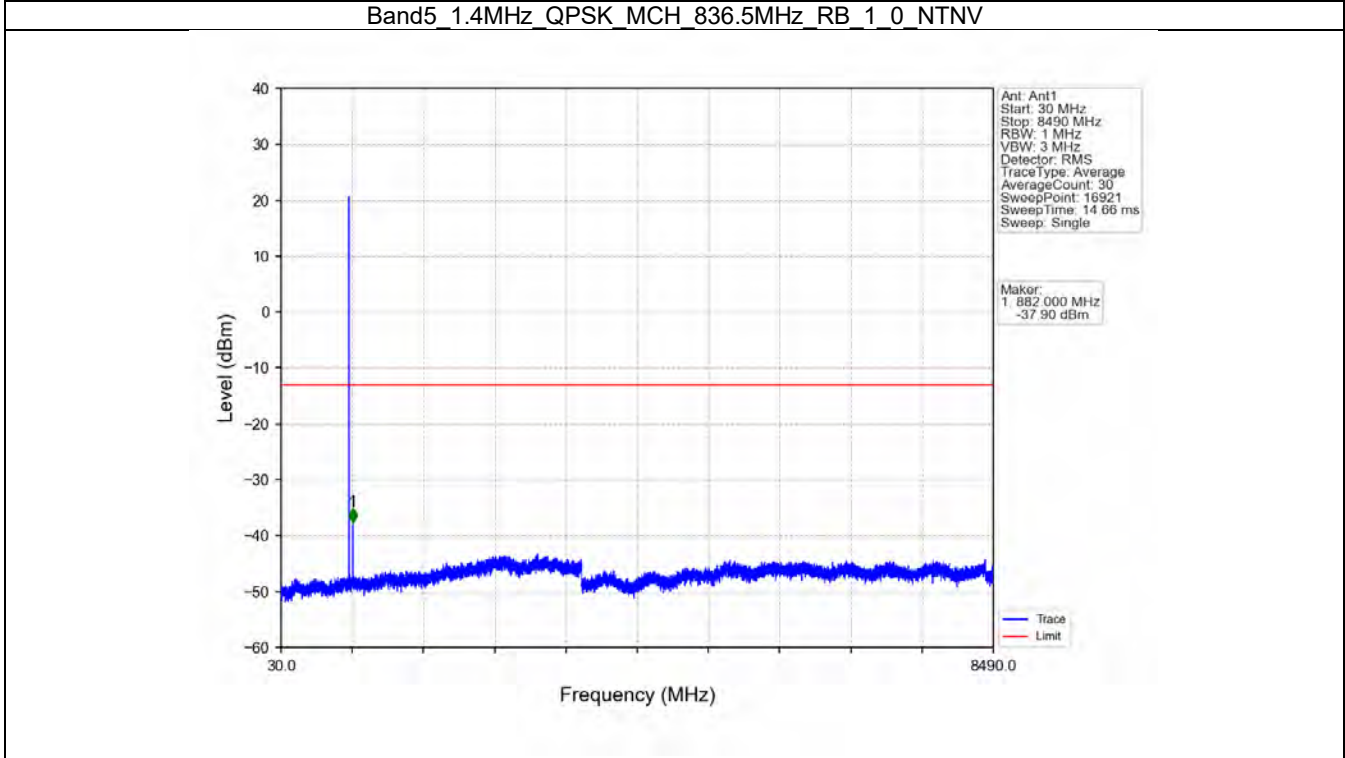
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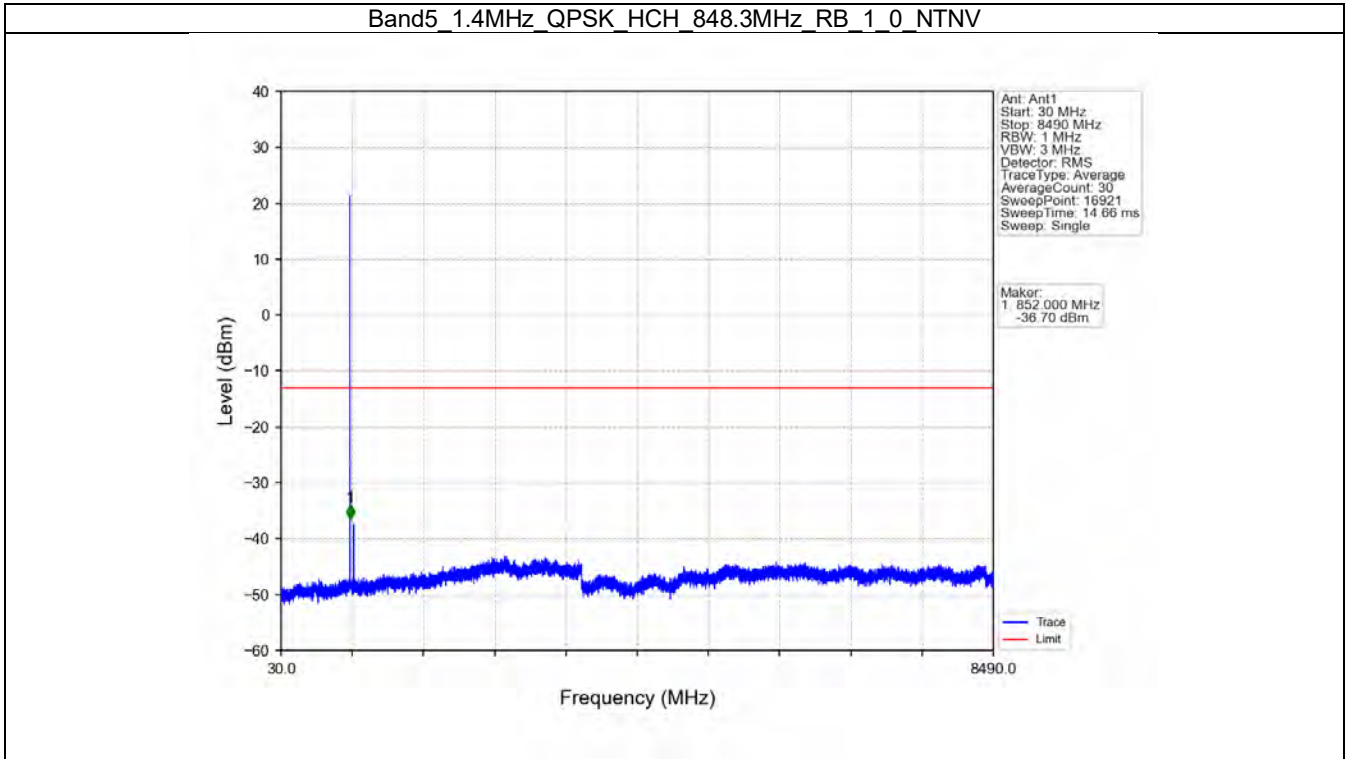
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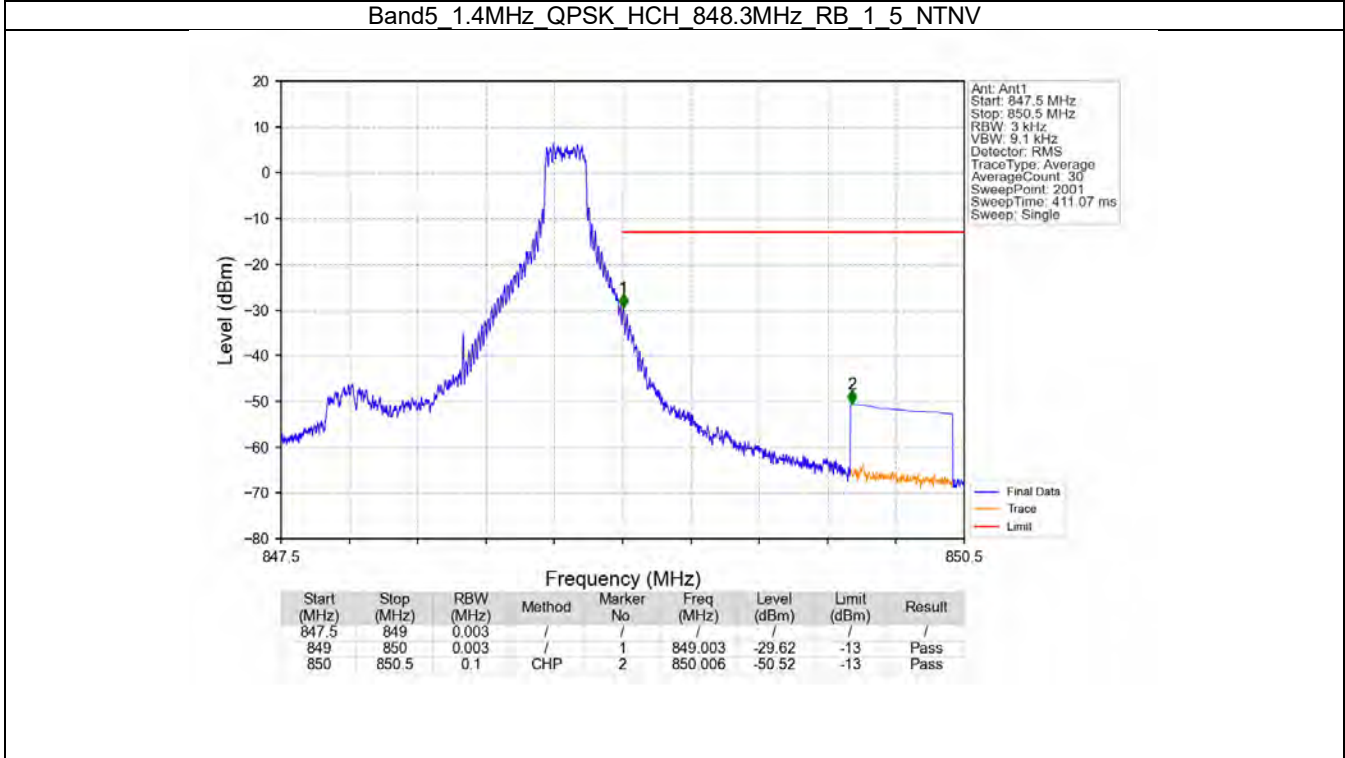
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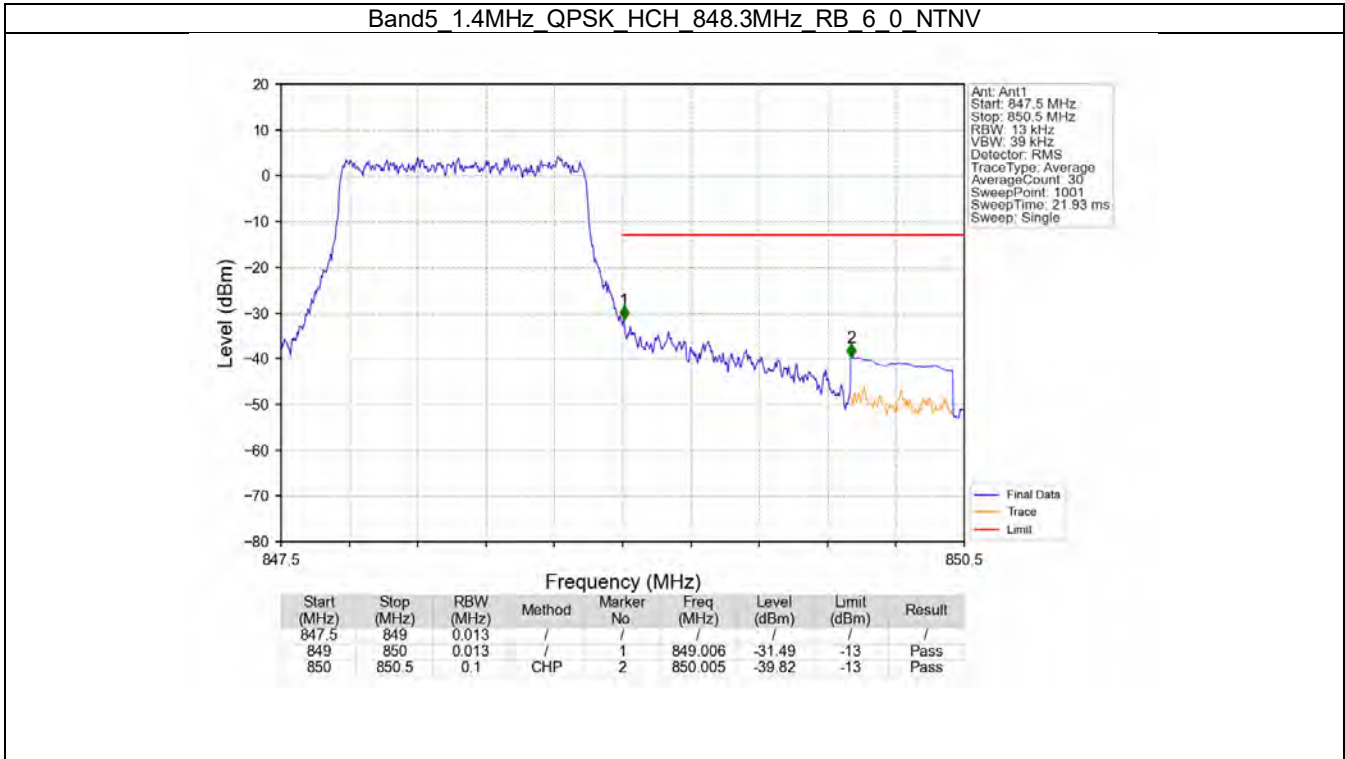
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## 5.2 B5\_3MHz

### 5.2.1 Test Result

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

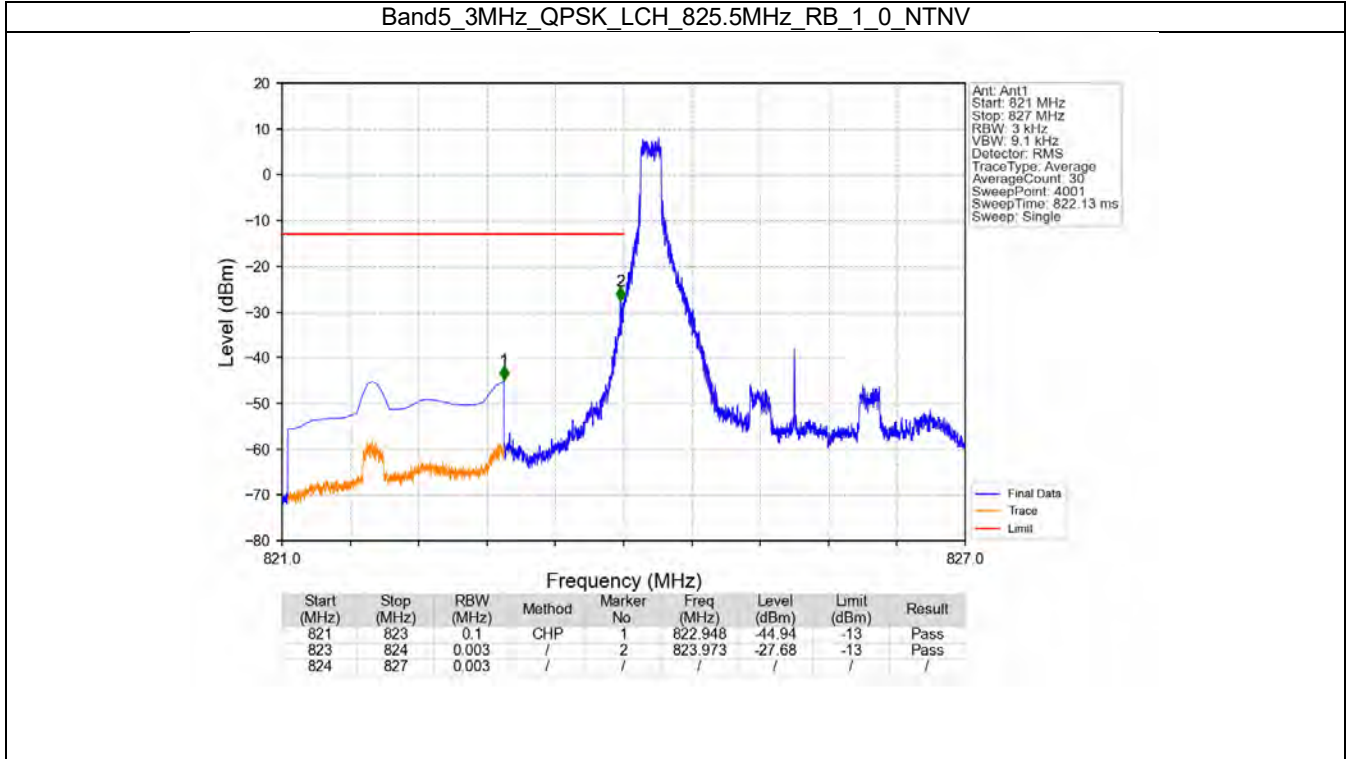


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5.2.2 Test Graph



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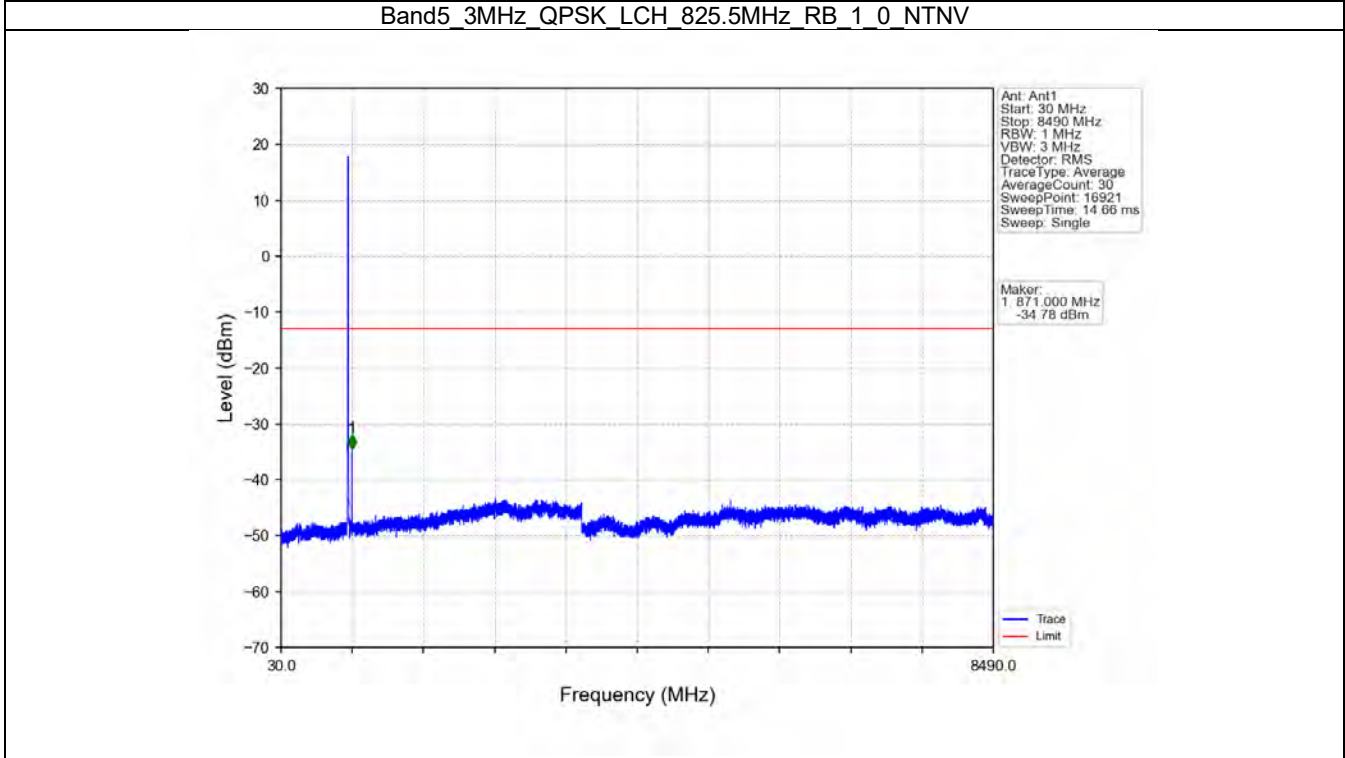
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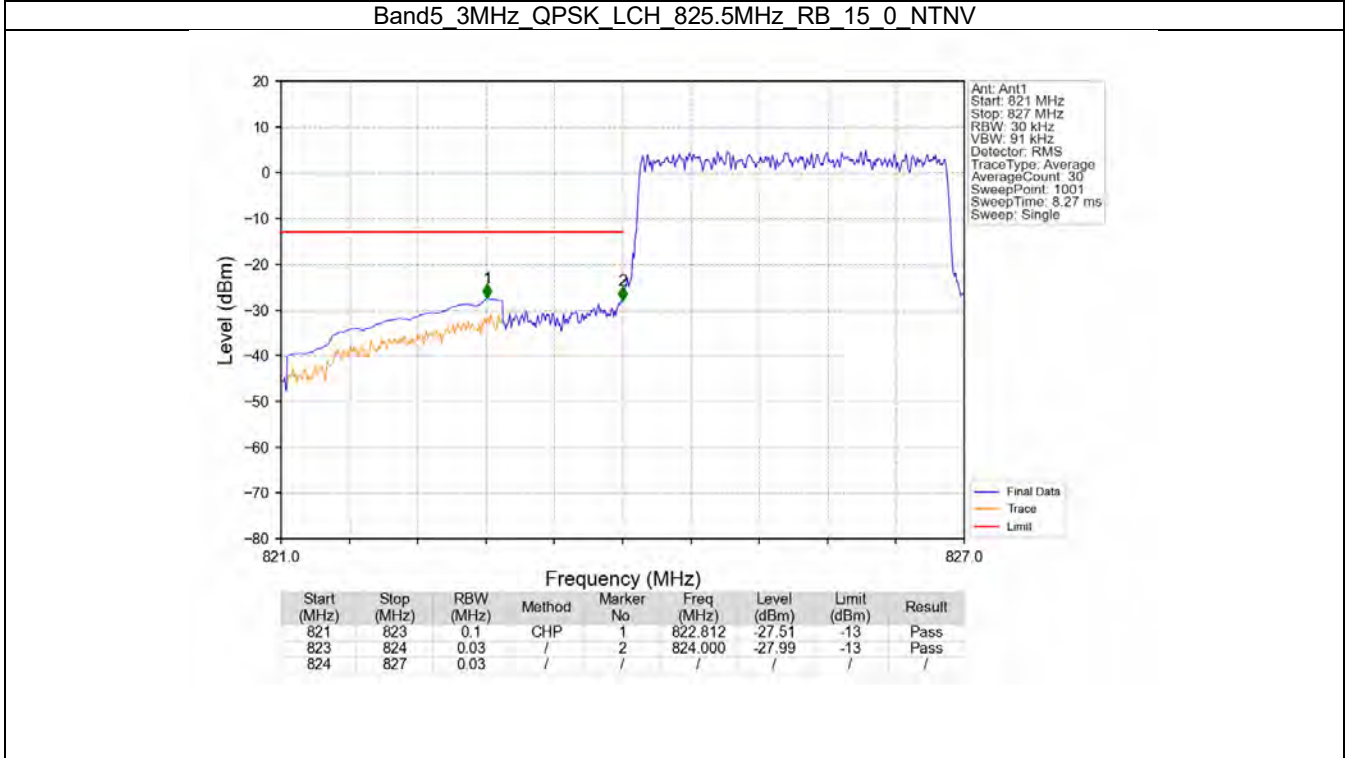
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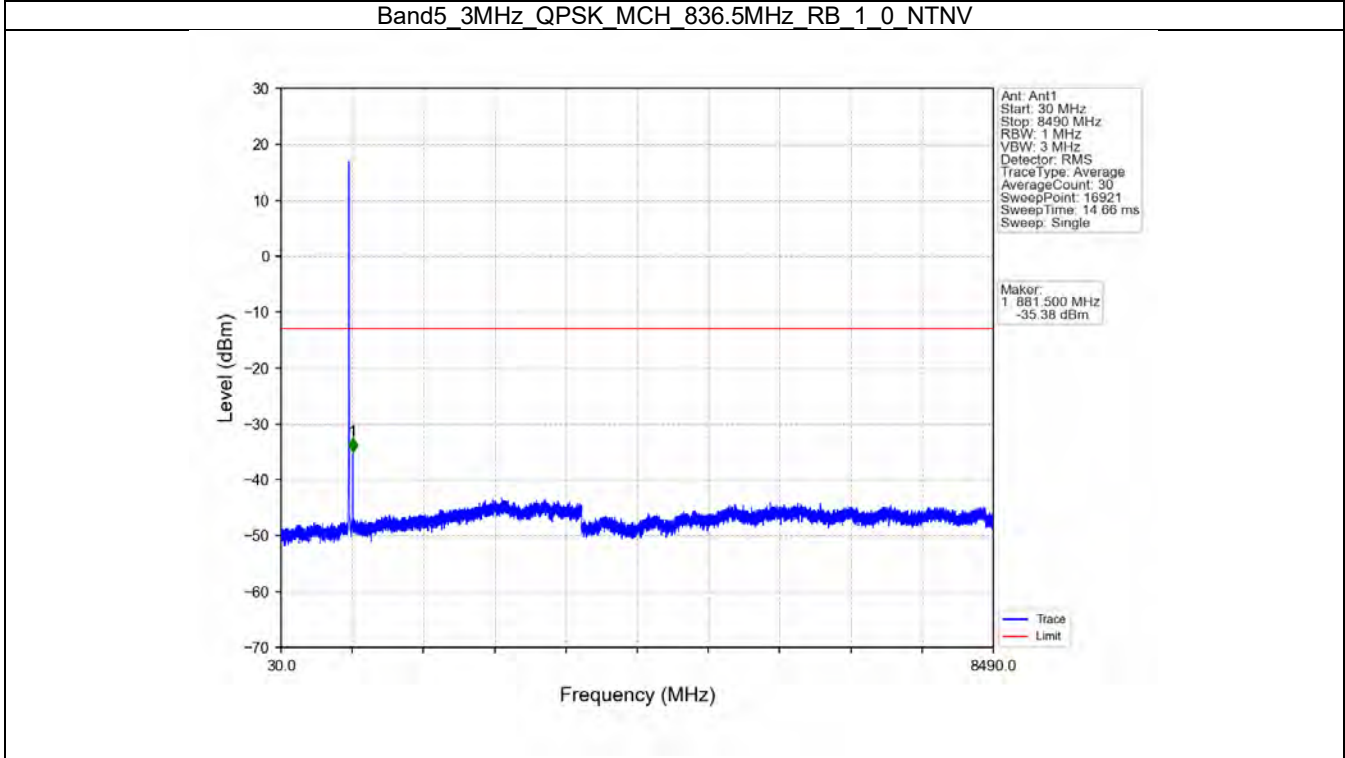
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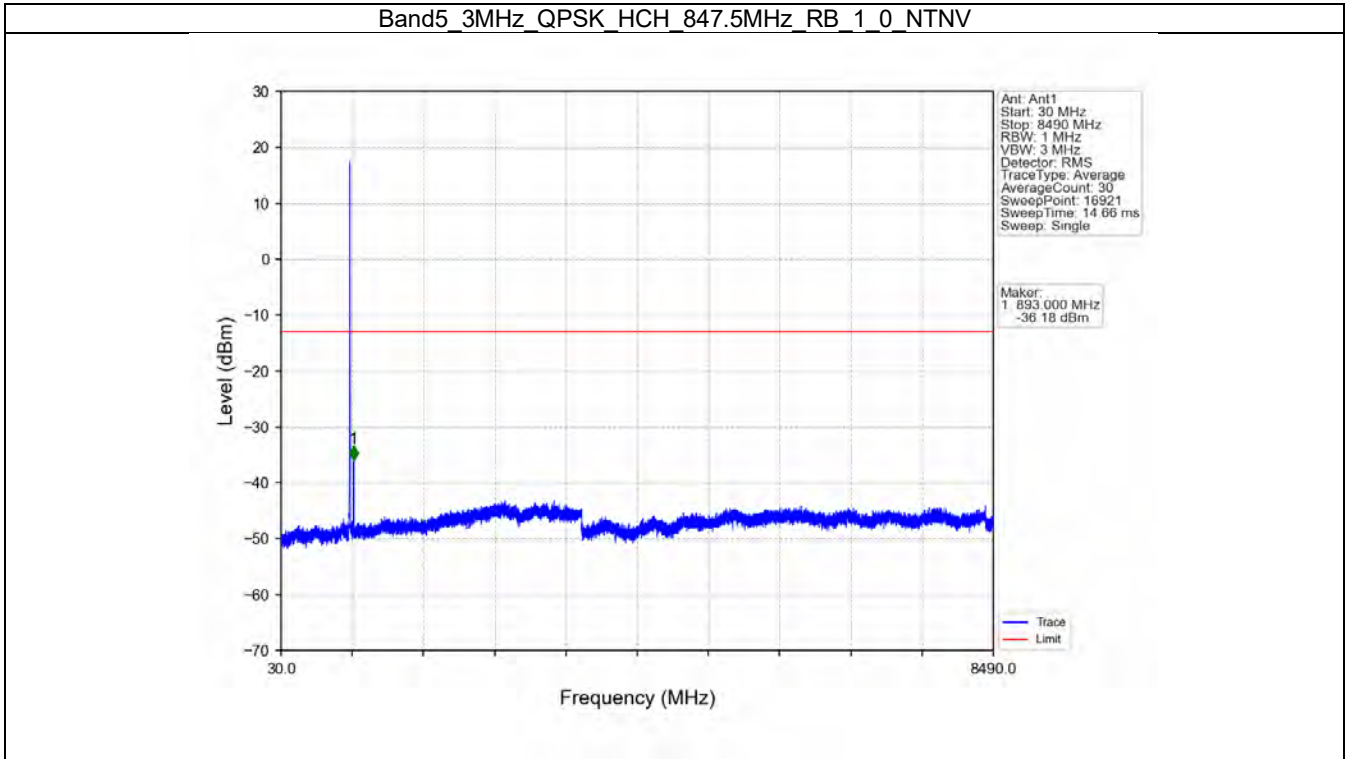
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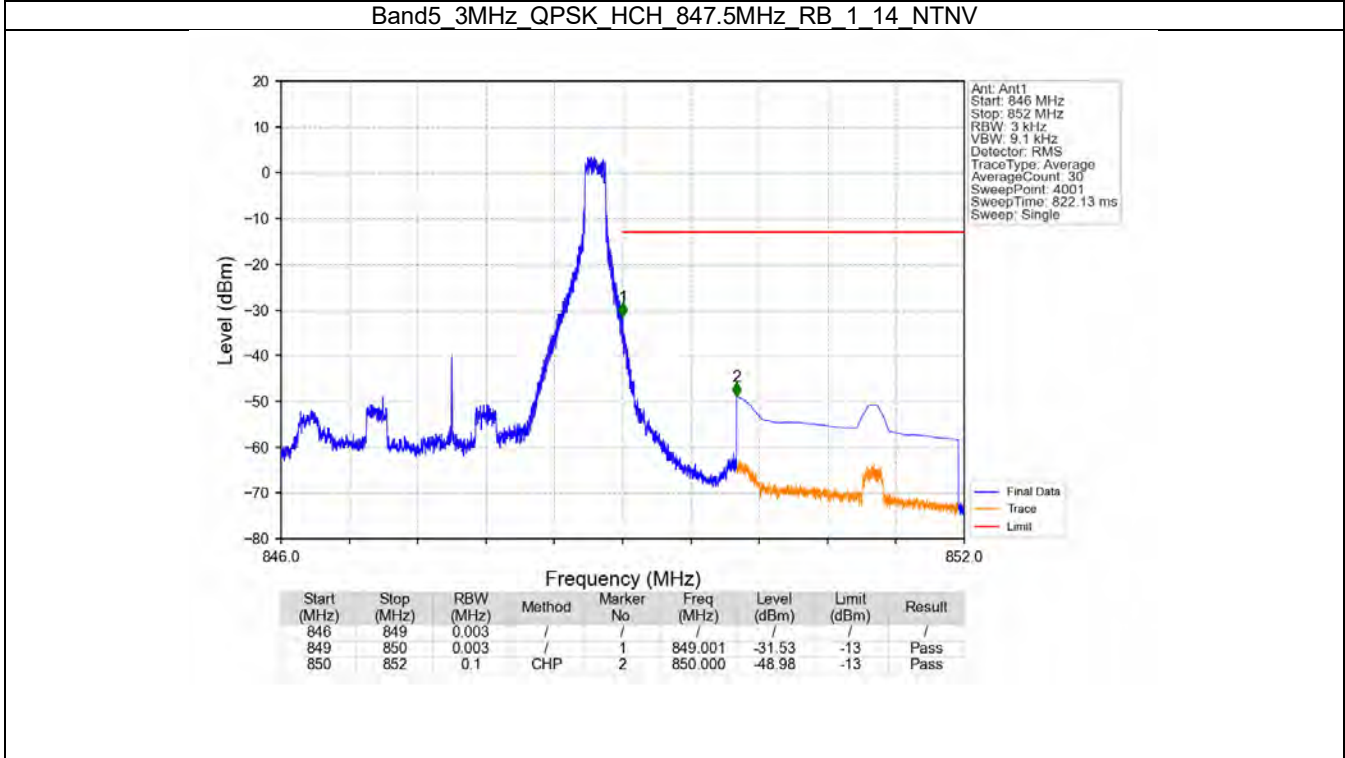
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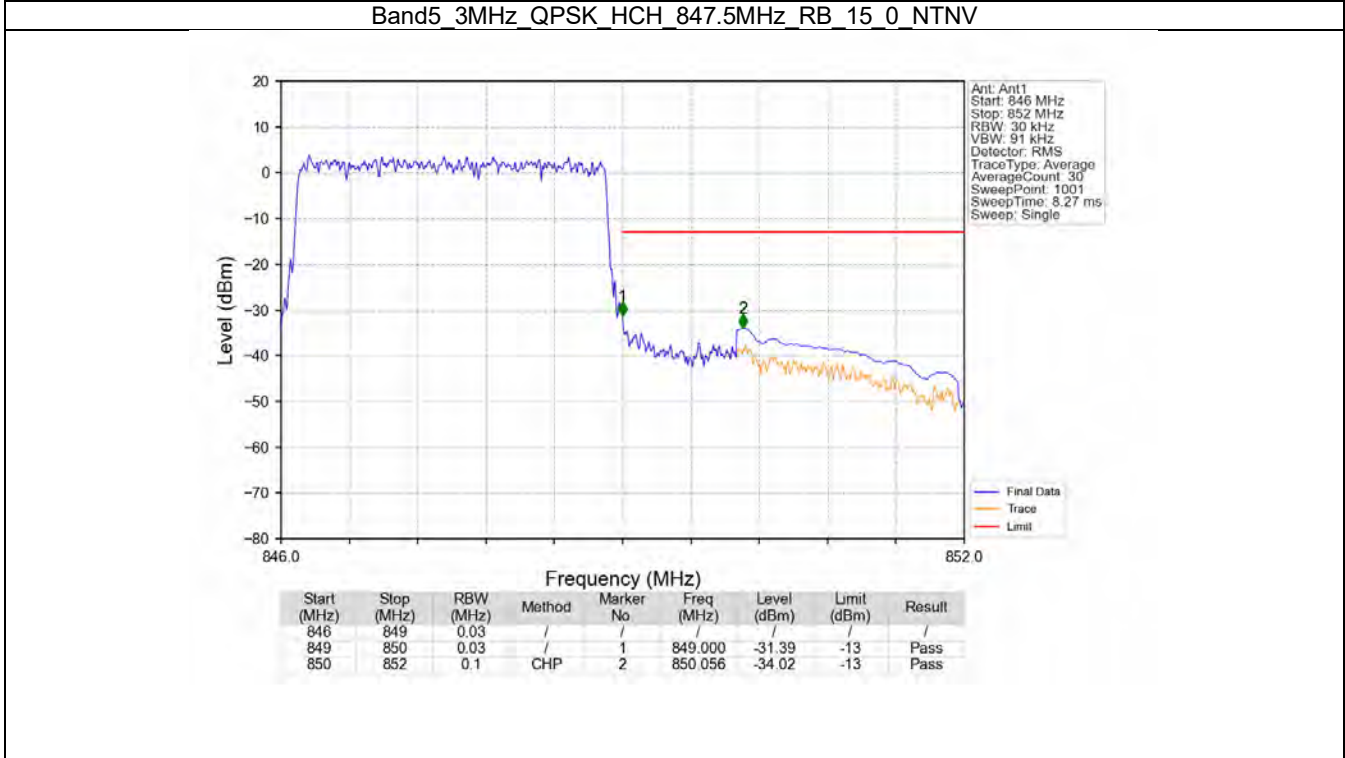
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### 5.3 B5\_5MHz

#### 5.3.1 Test Result

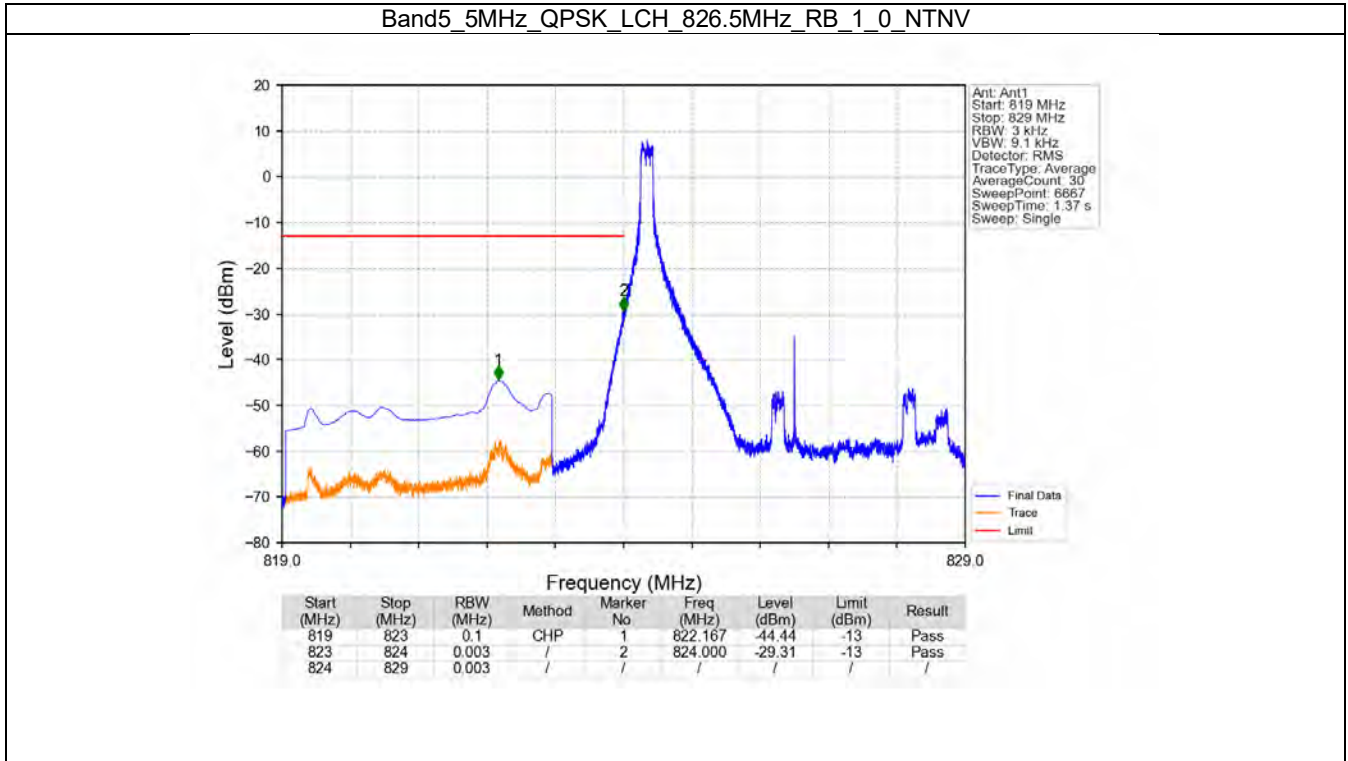
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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



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5.3.2 Test Graph



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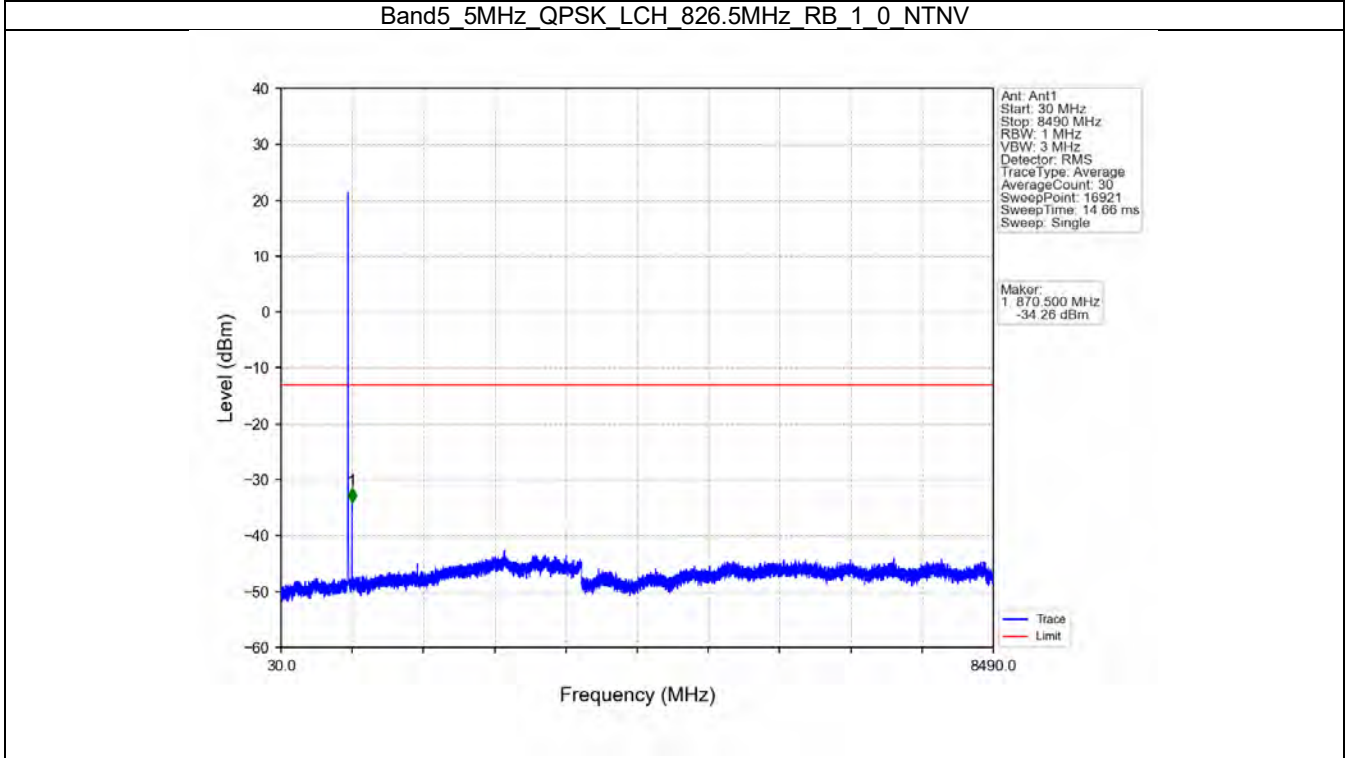
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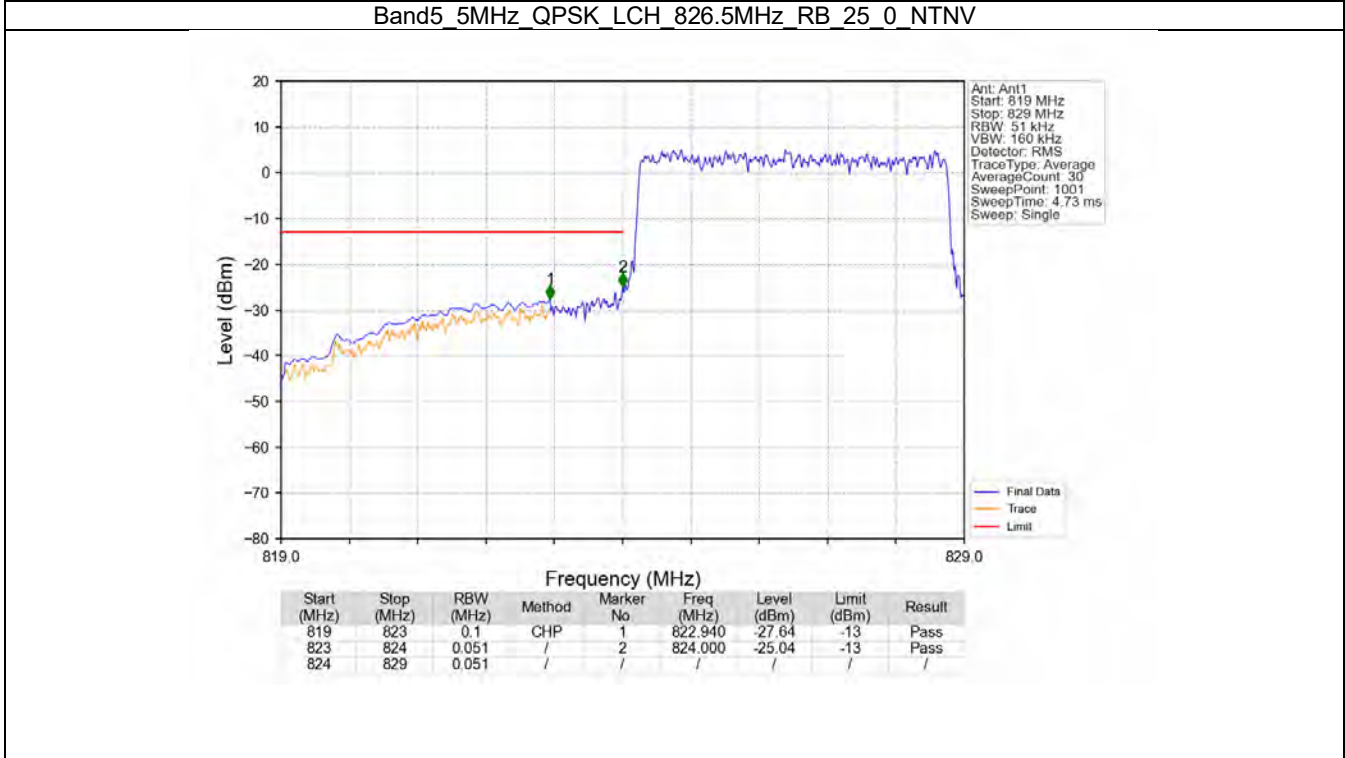
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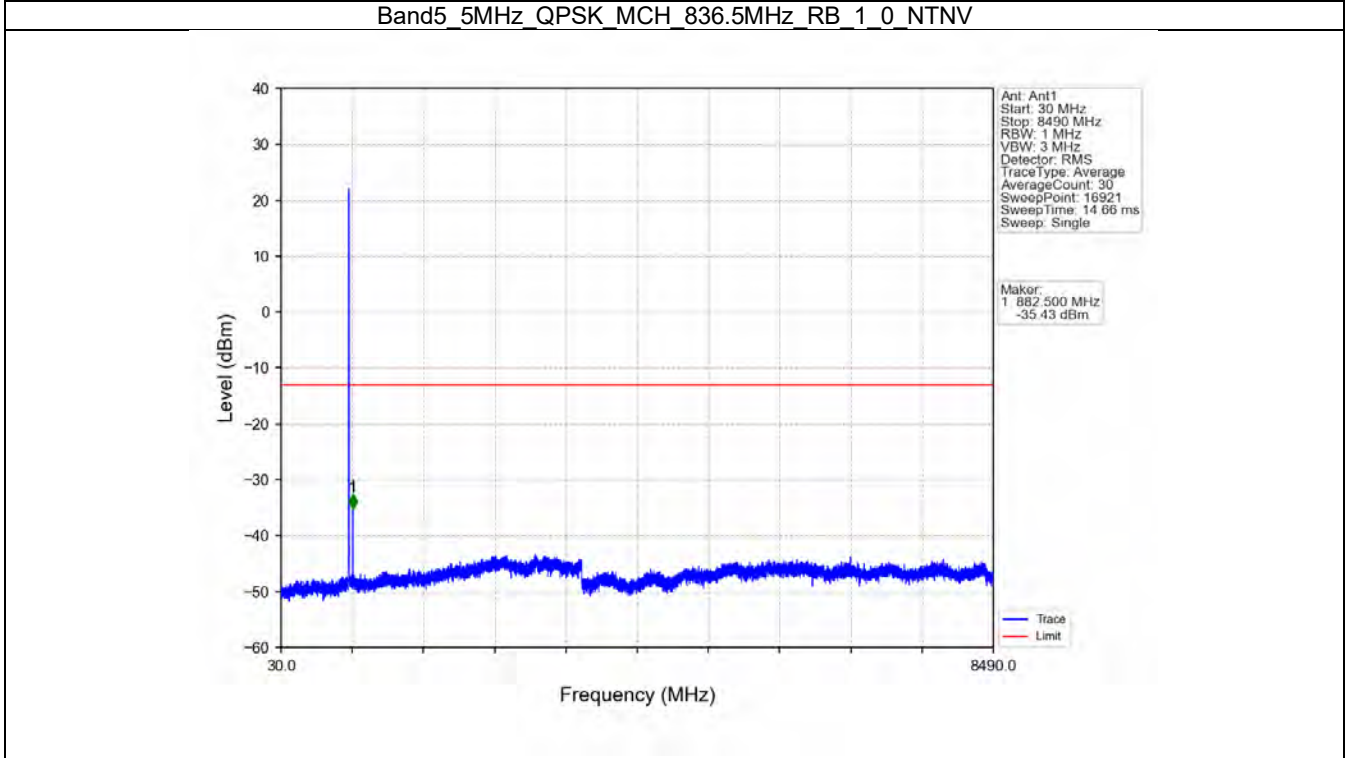
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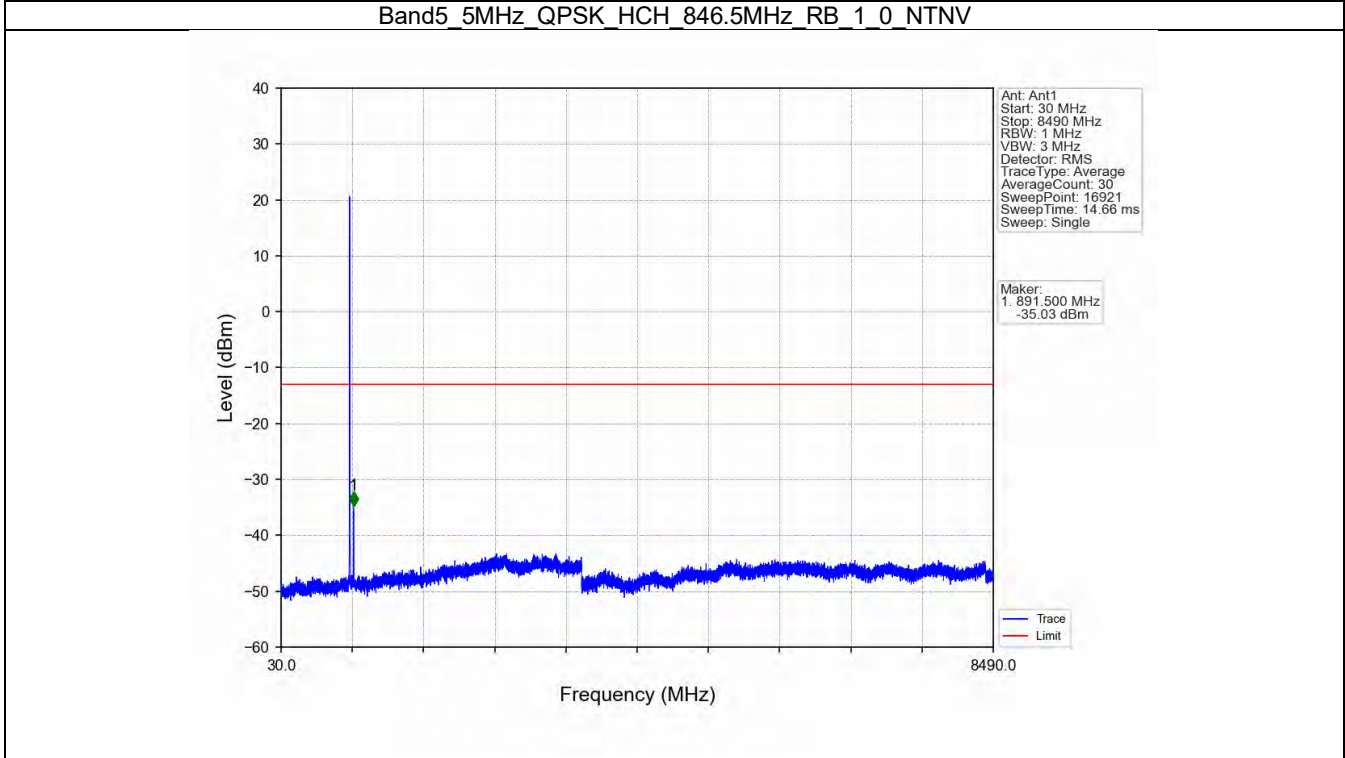
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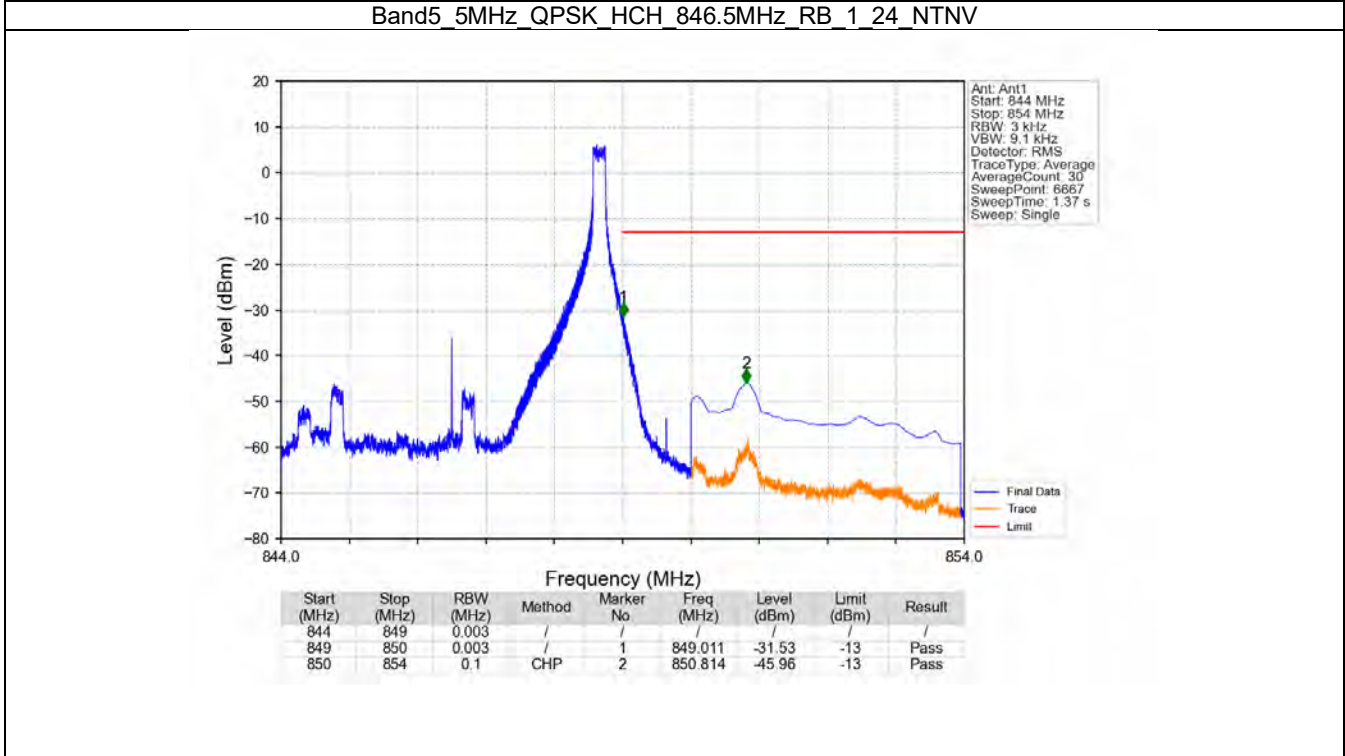
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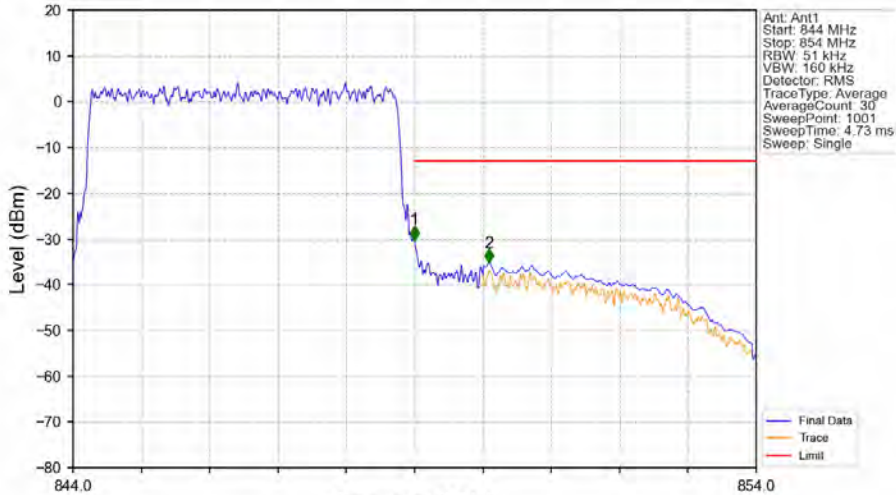
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.000	-30.19	-13	Pass
850	854	0.1	CHP	2	850.090	-35.21	-13	Pass



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## 5.4 B5\_10MHz

### 5.4.1 Test Result

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

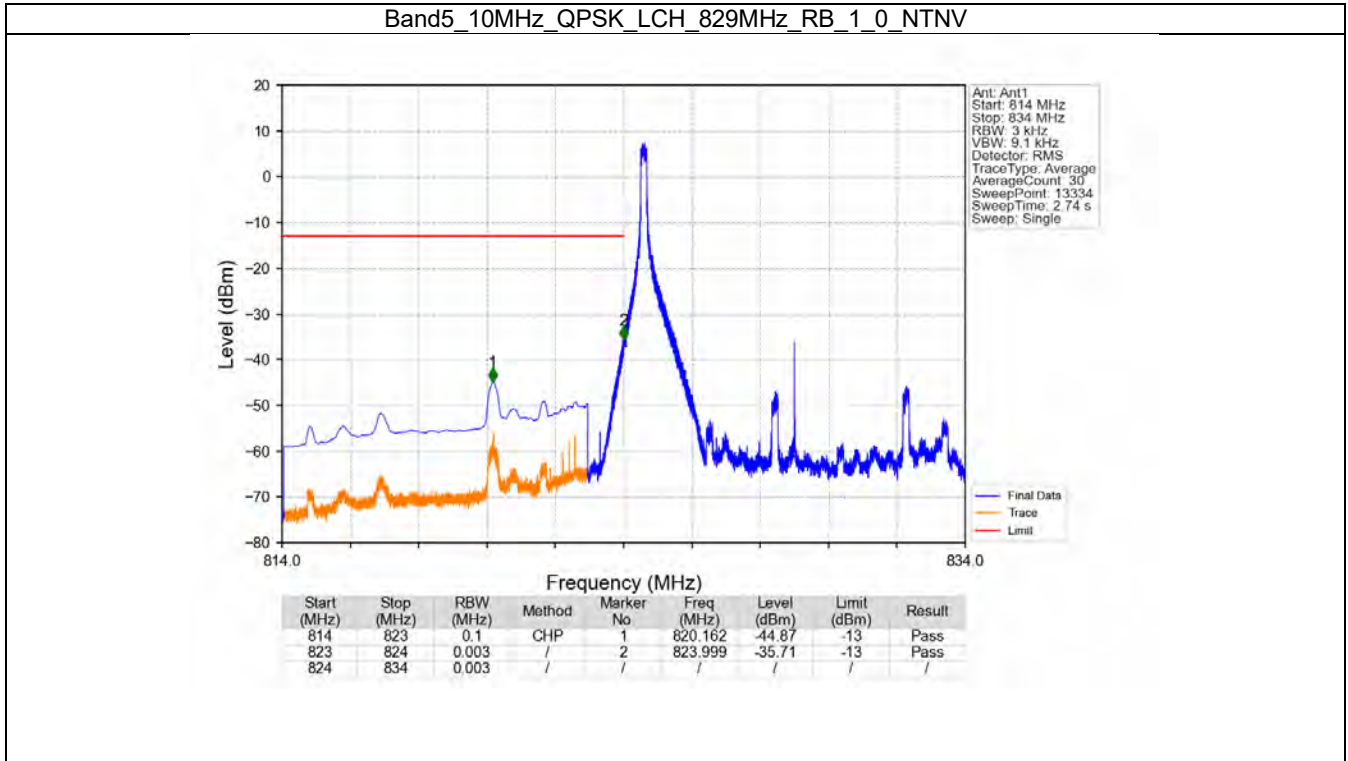


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5.4.2 Test Graph



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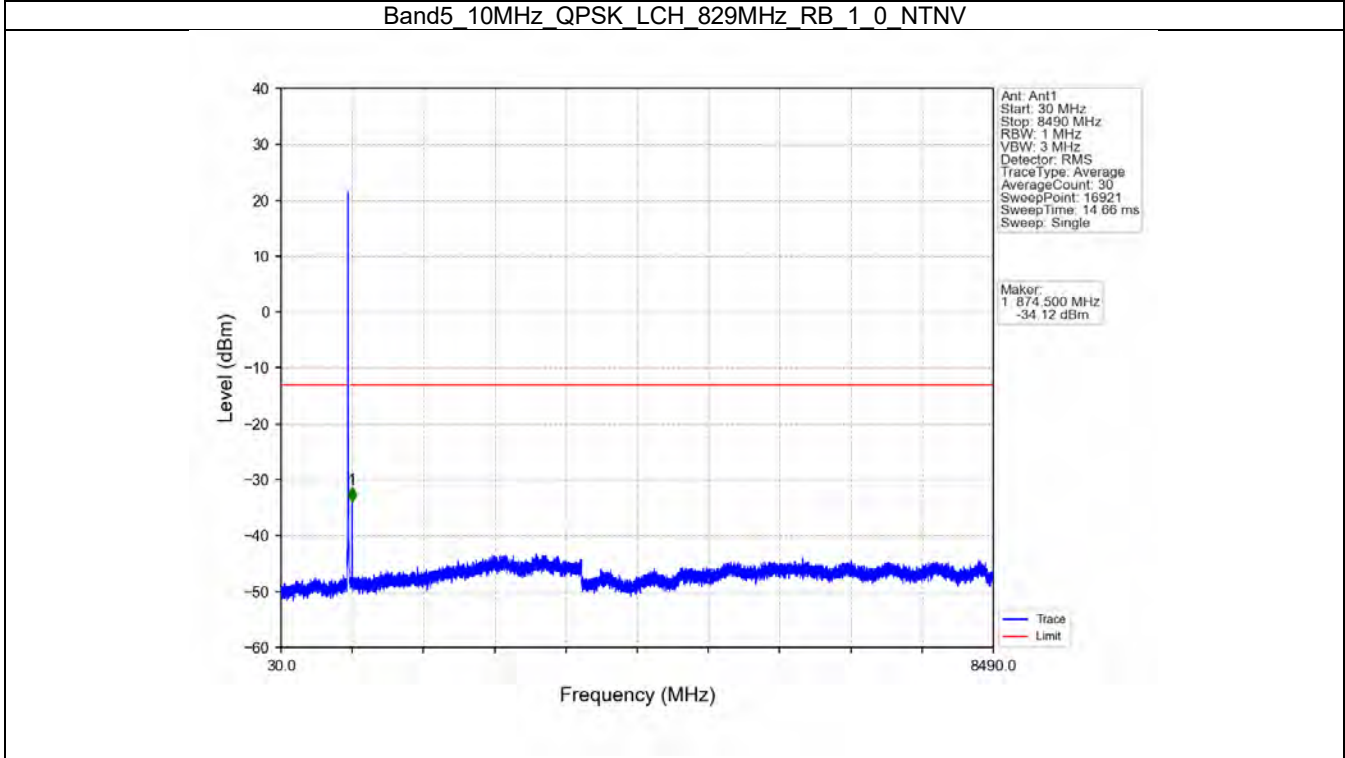
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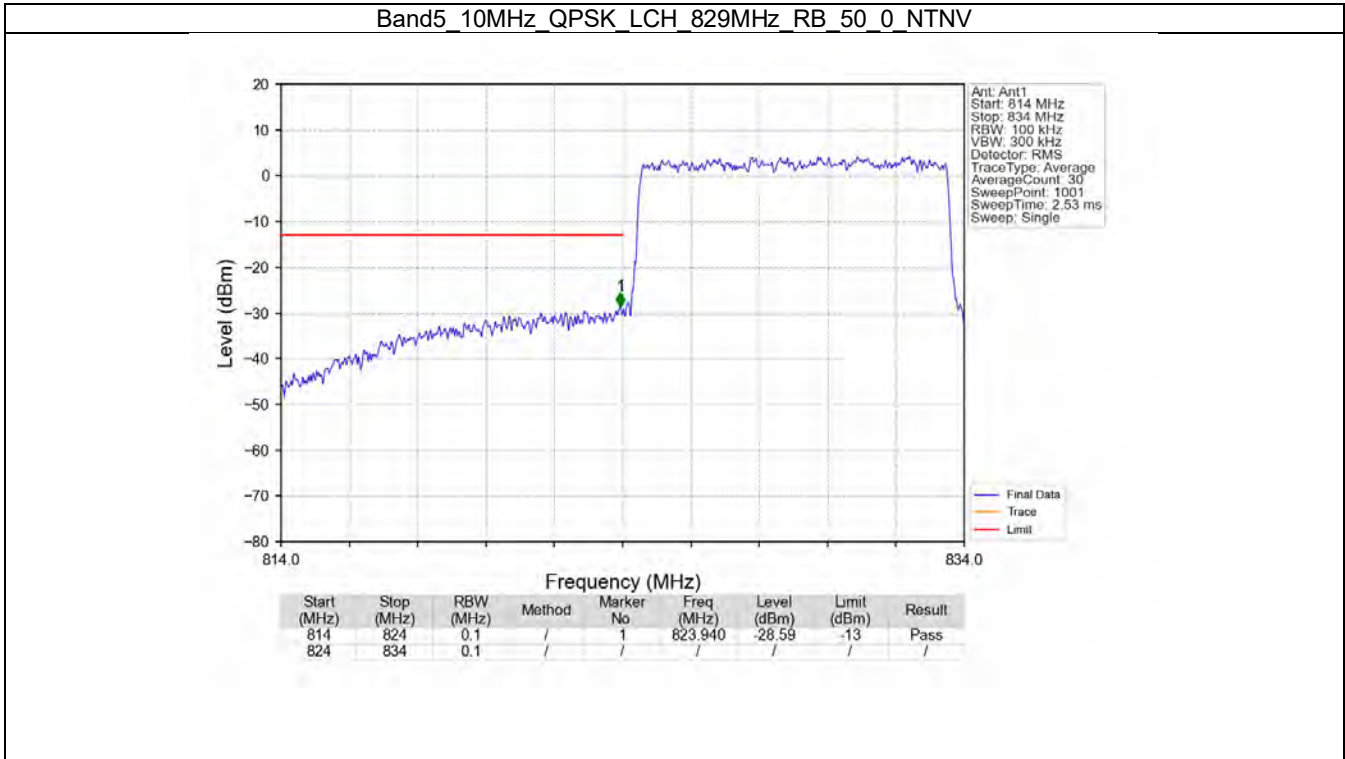
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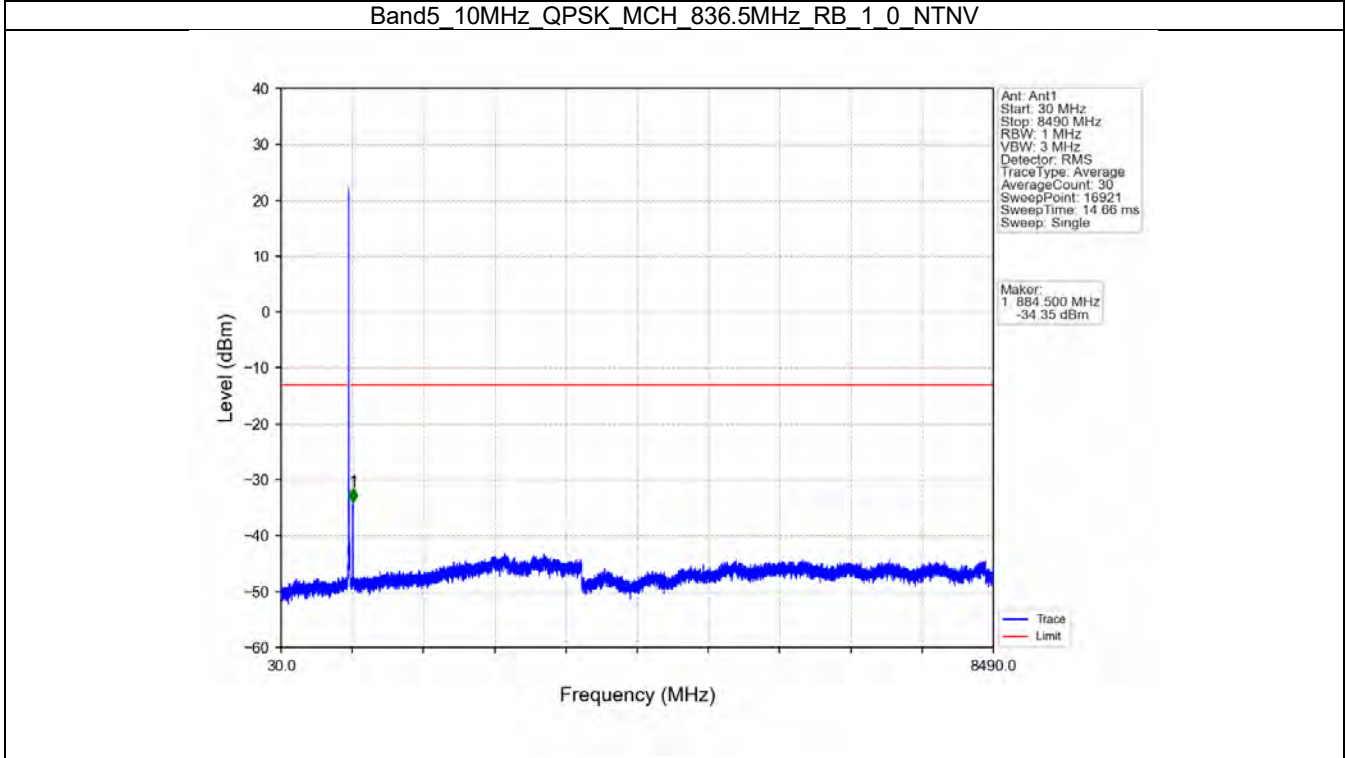
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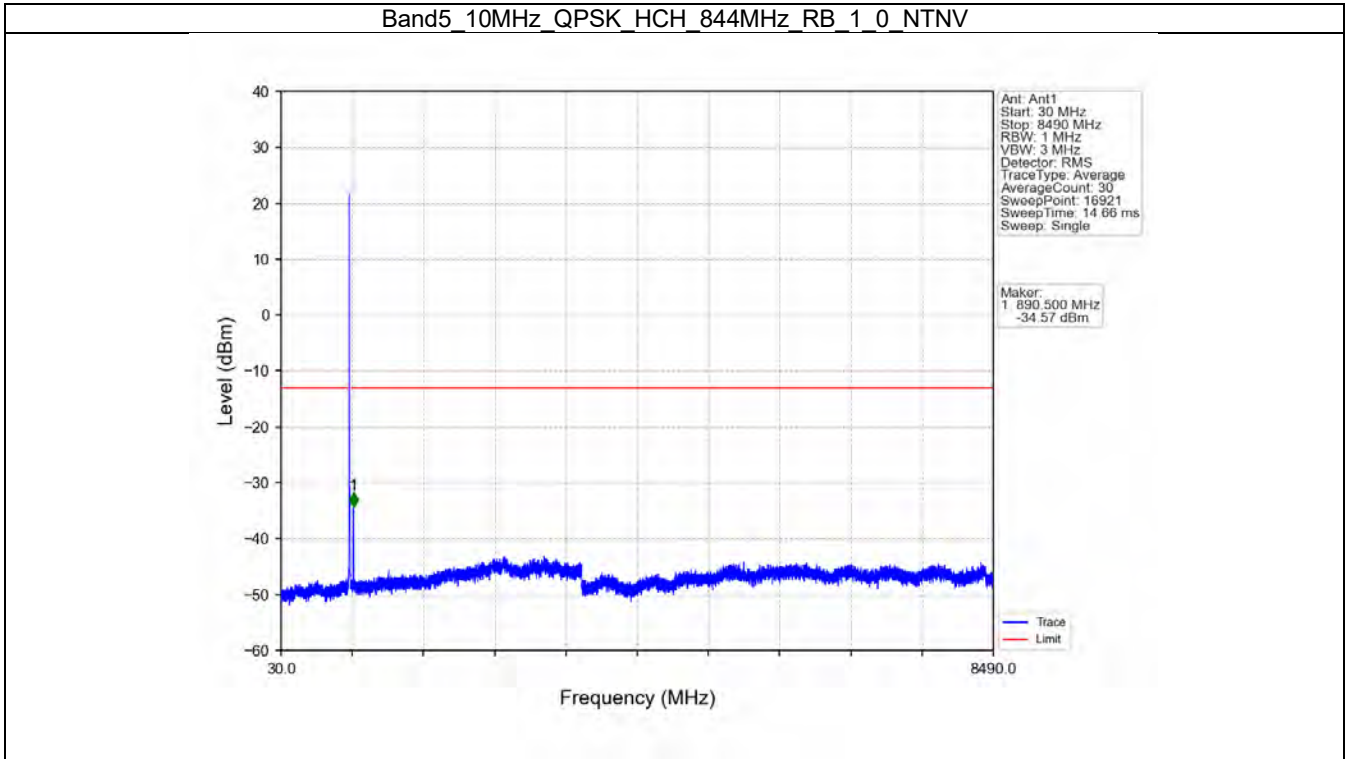
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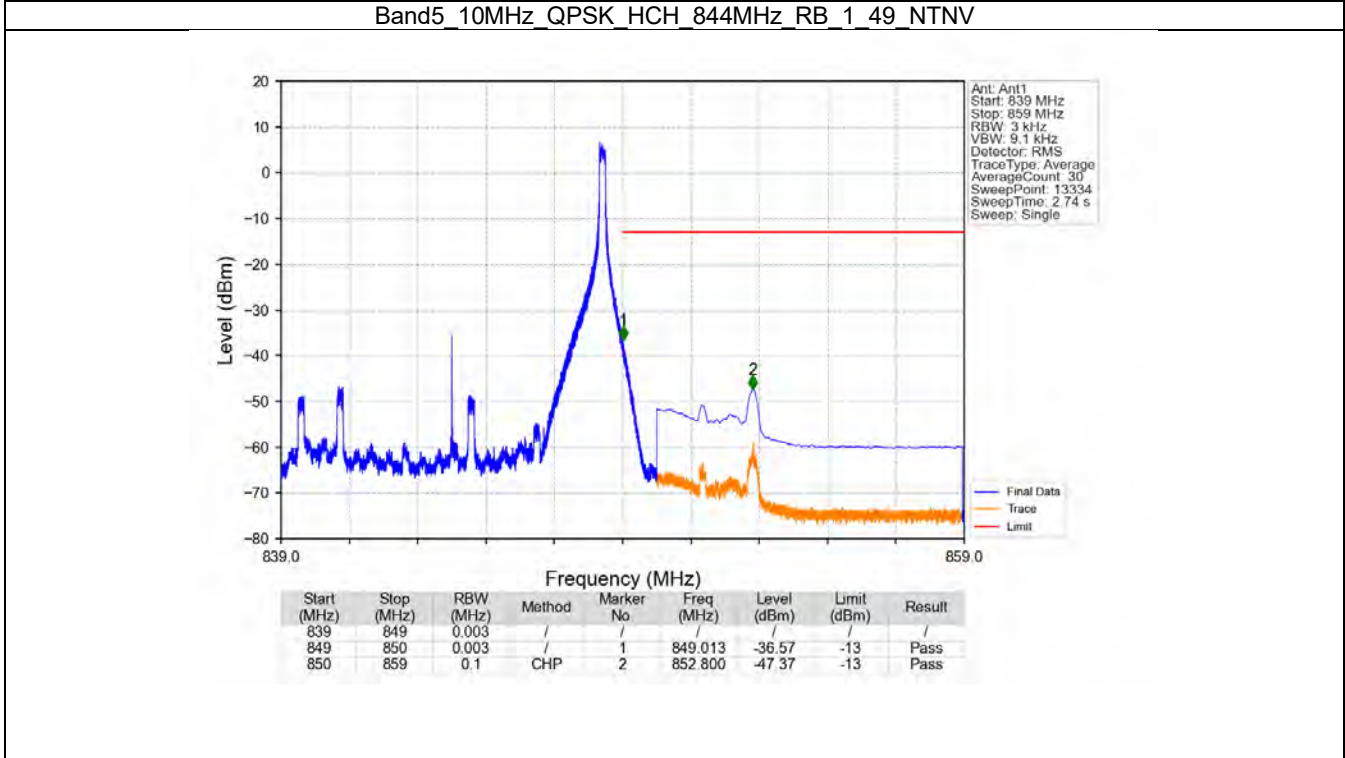
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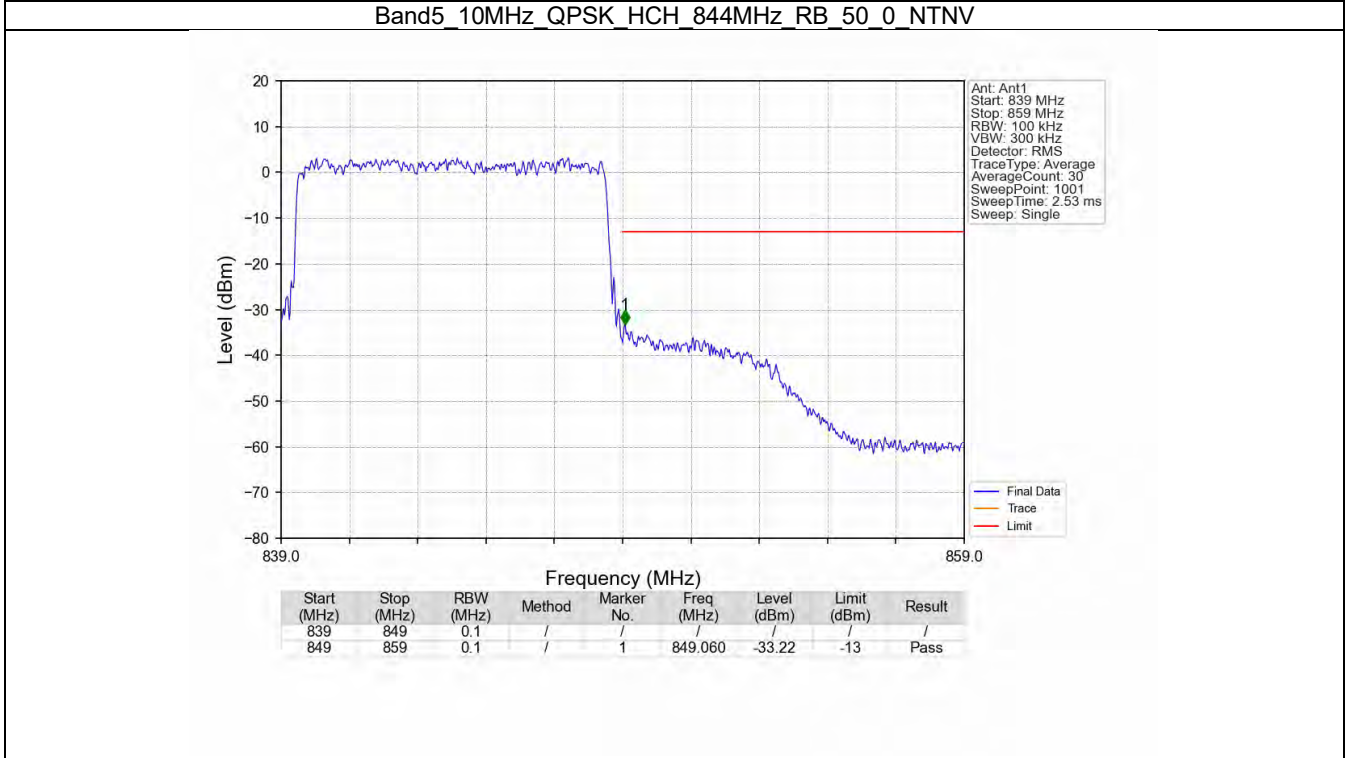
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## 6. Field Strength of Spurious Radiation

Test Band = LTE Band5\_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	43.42	-48.22	25.27	-74.79	-13.00	61.79	Horizontal
2	2473.7700	41.99	-47.32	27.23	-73.36	-13.00	60.36	Horizontal
3	3298.3600	41.78	-46.68	28.48	-71.68	-13.00	58.68	Horizontal
4	4122.9500	40.70	-45.91	29.40	-71.08	-13.00	58.08	Horizontal
5	4947.5400	41.21	-45.69	31.29	-68.45	-13.00	55.45	Horizontal
6	5772.1300	39.73	-44.64	32.65	-67.51	-13.00	54.51	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	42.98	-48.22	25.27	-75.23	-13.00	62.23	Vertical
2	2473.7700	41.46	-47.32	27.23	-73.89	-13.00	60.89	Vertical
3	3298.3600	41.78	-46.68	28.48	-71.68	-13.00	58.68	Vertical
4	4122.9500	40.51	-45.91	29.40	-71.27	-13.00	58.27	Vertical
5	4947.5400	40.68	-45.69	31.29	-68.98	-13.00	55.98	Vertical
6	5772.1300	39.58	-44.64	32.65	-67.66	-13.00	54.66	Vertical



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**Test Band = LTE Band5\_ TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	42.64	-48.20	25.30	-75.53	-13.00	62.53	Horizontal
2	2496.2700	41.80	-47.28	27.29	-73.45	-13.00	60.45	Horizontal
3	3328.3600	41.70	-46.64	28.50	-71.70	-13.00	58.70	Horizontal
4	4160.4500	40.42	-45.94	29.49	-71.29	-13.00	58.29	Horizontal
5	4992.5400	40.36	-45.79	31.38	-69.31	-13.00	56.31	Horizontal
6	5824.6300	38.99	-44.74	32.67	-68.34	-13.00	55.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	41.39	-48.20	25.30	-76.78	-13.00	63.78	Vertical
2	2496.2700	41.43	-47.28	27.29	-73.82	-13.00	60.82	Vertical
3	3328.3600	42.09	-46.64	28.50	-71.31	-13.00	58.31	Vertical
4	4160.4500	40.11	-45.94	29.49	-71.60	-13.00	58.60	Vertical
5	4992.5400	40.09	-45.79	31.38	-69.58	-13.00	56.58	Vertical
6	5824.6300	39.11	-44.74	32.67	-68.22	-13.00	55.22	Vertical



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**Test Band = LTE Band5\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	41.85	-48.18	25.32	-76.28	-13.00	63.28	Horizontal
2	2518.7700	41.31	-47.21	27.34	-73.82	-13.00	60.82	Horizontal
3	3358.3600	42.27	-46.60	28.52	-71.07	-13.00	58.07	Horizontal
4	4197.9500	40.11	-45.96	29.58	-71.53	-13.00	58.53	Horizontal
5	5037.5400	39.72	-45.65	31.49	-69.70	-13.00	56.70	Horizontal
6	5887.1300	40.02	-44.93	32.68	-67.49	-13.00	54.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	42.01	-48.18	25.32	-76.12	-13.00	63.12	Vertical
2	2518.7700	41.42	-47.21	27.34	-73.71	-13.00	60.71	Vertical
3	3358.3600	41.56	-46.60	28.52	-71.78	-13.00	58.78	Vertical
4	4197.9500	39.92	-45.96	29.58	-71.72	-13.00	58.72	Vertical
5	5037.5400	39.82	-45.65	31.49	-69.60	-13.00	56.60	Vertical
6	5887.1300	40.47	-44.93	32.68	-67.04	-13.00	54.04	Vertical



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Test Band = 5A\_66A\_TM1  
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4281	41.46	-45.58	29.77	-69.61	-13.00	56.61	Horizontal
2	5233.5	41.13	-45.22	31.96	-67.39	-13.00	54.39	Horizontal
3	6686.25	39.74	-43.88	34.64	-64.77	-13.00	51.77	Horizontal
4	8473.5	36.93	-41.57	36.56	-63.34	-13.00	50.34	Horizontal
5	11235.75	31.07	-37.40	38.72	-62.87	-13.00	49.87	Horizontal
6	12860.25	29.78	-37.00	39.06	-63.42	-13.00	50.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3319.5	43.03	-46.42	28.49	-70.16	-13.00	57.16	Vertical
2	4575	40.90	-45.68	30.47	-69.58	-13.00	56.58	Vertical
3	5982	39.93	-44.86	32.70	-67.49	-13.00	54.49	Vertical
4	7228.5	38.50	-43.51	35.84	-64.43	-13.00	51.43	Vertical
5	9266.25	35.85	-40.23	36.81	-62.83	-13.00	49.83	Vertical
6	11931.75	28.89	-37.27	38.79	-64.85	-13.00	51.85	Vertical



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Test Band = 5A\_66A\_TM1  
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4713.75	40.45	-45.59	30.77	-69.63	-13.00	56.63	Horizontal
2	6045	40.06	-44.66	32.84	-67.02	-13.00	54.02	Horizontal
3	7774.5	37.91	-42.52	36.71	-63.16	-13.00	50.16	Horizontal
4	9826.5	33.85	-39.44	37.87	-62.98	-13.00	49.98	Horizontal
5	12775.5	29.39	-36.79	39.03	-63.63	-13.00	50.63	Horizontal
6	15794.25	27.48	-33.06	39.63	-61.21	-13.00	48.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4245.75	40.69	-45.66	29.69	-70.54	-13.00	57.54	Vertical
2	5334.75	40.32	-45.16	32.20	-67.90	-13.00	54.90	Vertical
3	6825	39.58	-44.15	34.89	-64.95	-13.00	51.95	Vertical
4	8250	36.86	-42.17	36.68	-63.89	-13.00	50.89	Vertical
5	9660	34.04	-39.53	37.55	-63.20	-13.00	50.20	Vertical
6	12331.5	30.00	-37.46	38.90	-63.82	-13.00	50.82	Vertical



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**Test Band = 5A\_66A\_TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4177.5	40.94	-45.77	29.53	-70.56	-13.00	57.56	Horizontal
2	5978.25	40.20	-44.86	32.70	-67.22	-13.00	54.22	Horizontal
3	7152.75	38.67	-43.79	35.63	-64.76	-13.00	51.76	Horizontal
4	9093.75	35.58	-40.39	36.48	-63.59	-13.00	50.59	Horizontal
5	10864.5	31.14	-38.09	38.63	-63.58	-13.00	50.58	Horizontal
6	13383.75	29.03	-36.40	39.79	-62.84	-13.00	49.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4191	40.88	-45.77	29.56	-70.59	-13.00	57.59	Vertical
2	5571	40.16	-45.12	32.61	-67.61	-13.00	54.61	Vertical
3	6791.25	39.68	-44.14	34.82	-64.89	-13.00	51.89	Vertical
4	8221.5	37.24	-42.25	36.69	-63.58	-13.00	50.58	Vertical
5	10482.75	32.35	-38.84	38.44	-63.30	-13.00	50.30	Vertical
6	12151.5	30.24	-37.42	38.85	-63.59	-13.00	50.59	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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