

Appendix B.8 for KSEM2108001480CR-LTE-Band 5

1. Effective (Isotropic) Radiated Power Output Data

1.1 B5_1.4MHz_ERP

1.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	824.7	1	0	24.24	-0.60	21.49	<=38.45	Pass	
			2	24.14	-0.60	21.39	<=38.45	Pass	
			5	24.07	-0.60	21.32	<=38.45	Pass	
		3	0	24.06	-0.60	21.31	<=38.45	Pass	
			2	24.08	-0.60	21.33	<=38.45	Pass	
			3	24.06	-0.60	21.31	<=38.45	Pass	
	836.5	1	0	24.31	-0.60	21.56	<=38.45	Pass	
			2	24.06	-0.60	21.31	<=38.45	Pass	
			5	24.01	-0.60	21.26	<=38.45	Pass	
		3	0	24.03	-0.60	21.28	<=38.45	Pass	
			2	24.21	-0.60	21.46	<=38.45	Pass	
			3	24.11	-0.60	21.36	<=38.45	Pass	
	848.3	1	0	22.97	-0.60	20.22	<=38.45	Pass	
			2	24.46	-0.60	21.71	<=38.45	Pass	
			5	23.73	-0.60	20.98	<=38.45	Pass	
		3	0	23.74	-0.60	20.99	<=38.45	Pass	
			2	24.17	-0.60	21.42	<=38.45	Pass	
			3	23.79	-0.60	21.04	<=38.45	Pass	
	16QAM	824.7	1	0	22.64	-0.60	19.89	<=38.45	Pass
				2	22.83	-0.60	20.08	<=38.45	Pass
				5	22.92	-0.60	20.17	<=38.45	Pass
			3	0	22.87	-0.60	20.12	<=38.45	Pass
				2	22.82	-0.60	20.07	<=38.45	Pass
				3	22.80	-0.60	20.05	<=38.45	Pass
836.5		1	0	22.72	-0.60	19.97	<=38.45	Pass	
			2	22.77	-0.60	19.97	<=38.45	Pass	
			3	22.72	-0.60	19.97	<=38.45	Pass	
		3	0	21.73	-0.60	18.98	<=38.45	Pass	
			2	22.85	-0.60	20.10	<=38.45	Pass	
			3	22.79	-0.60	20.04	<=38.45	Pass	
836.5		1	0	22.78	-0.60	20.03	<=38.45	Pass	
			2	22.78	-0.60	20.03	<=38.45	Pass	
			3	22.99	-0.60	20.24	<=38.45	Pass	
		3	0	23.05	-0.60	20.30	<=38.45	Pass	
			2	23.05	-0.60	20.30	<=38.45	Pass	
			3	23.05	-0.60	20.30	<=38.45	Pass	
836.5	1	0	21.79	-0.60	19.04	<=38.45	Pass		
		2	21.79	-0.60	19.04	<=38.45	Pass		
		3	21.79	-0.60	19.04	<=38.45	Pass		



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848.3	1	0	22.49	-0.60	19.74	<=38.45	Pass
		2	22.62	-0.60	19.87	<=38.45	Pass
		5	22.55	-0.60	19.80	<=38.45	Pass
	3	0	22.69	-0.60	19.94	<=38.45	Pass
		2	22.64	-0.60	19.89	<=38.45	Pass
		3	22.68	-0.60	19.93	<=38.45	Pass
6	0	21.43	-0.60	18.68	<=38.45	Pass	

Note1: ERP=Power+Antenna Gain-2.15

1.2 B5_3MHz_ERP

1.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	825.5	1	0	24.27	-0.60	21.52	<=38.45	Pass	
			7	24.14	-0.60	21.39	<=38.45	Pass	
			14	24.09	-0.60	21.34	<=38.45	Pass	
		8	0	23.10	-0.60	20.35	<=38.45	Pass	
			4	23.13	-0.60	20.38	<=38.45	Pass	
			7	23.16	-0.60	20.41	<=38.45	Pass	
	15	0	23.09	-0.60	20.34	<=38.45	Pass		
	836.5	1	0	24.19	-0.60	21.44	<=38.45	Pass	
			7	23.89	-0.60	21.14	<=38.45	Pass	
			14	23.85	-0.60	21.10	<=38.45	Pass	
		8	0	22.82	-0.60	20.07	<=38.45	Pass	
			4	22.89	-0.60	20.14	<=38.45	Pass	
			7	22.78	-0.60	20.03	<=38.45	Pass	
	15	0	22.80	-0.60	20.05	<=38.45	Pass		
	847.5	1	0	24.34	-0.60	21.59	<=38.45	Pass	
			7	23.61	-0.60	20.86	<=38.45	Pass	
			14	23.51	-0.60	20.76	<=38.45	Pass	
		8	0	22.65	-0.60	19.90	<=38.45	Pass	
			4	22.55	-0.60	19.80	<=38.45	Pass	
			7	22.55	-0.60	19.80	<=38.45	Pass	
	15	0	22.51	-0.60	19.76	<=38.45	Pass		
	16QAM	825.5	1	0	22.97	-0.60	20.22	<=38.45	Pass
				7	23.08	-0.60	20.33	<=38.45	Pass
				14	22.97	-0.60	20.22	<=38.45	Pass
8			0	21.83	-0.60	19.08	<=38.45	Pass	
			4	21.90	-0.60	19.15	<=38.45	Pass	
			7	21.91	-0.60	19.16	<=38.45	Pass	
15		0	21.88	-0.60	19.13	<=38.45	Pass		
836.5		1	0	23.30	-0.60	20.55	<=38.45	Pass	
			7	23.50	-0.60	20.75	<=38.45	Pass	
			14	23.39	-0.60	20.64	<=38.45	Pass	
		8	0	21.92	-0.60	19.17	<=38.45	Pass	



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	847.5	15	4	22.07	-0.60	19.32	<=38.45	Pass	
			7	21.95	-0.60	19.20	<=38.45	Pass	
			0	21.90	-0.60	19.15	<=38.45	Pass	
	1	8	0	22.46	-0.60	19.71	<=38.45	Pass	
			7	22.40	-0.60	19.65	<=38.45	Pass	
			14	22.19	-0.60	19.44	<=38.45	Pass	
	8	15	0	21.49	-0.60	18.74	<=38.45	Pass	
			4	21.51	-0.60	18.76	<=38.45	Pass	
			7	21.58	-0.60	18.83	<=38.45	Pass	
				0	21.57	-0.60	18.82	<=38.45	Pass

Note1: ERP=Power+Antenna Gain-2.15

1.3 B5_5MHz_ERP

1.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNv										
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	826.5	1	0	24.25	-0.60	21.50	<=38.45	Pass		
			13	24.01	-0.60	21.26	<=38.45	Pass		
			24	23.95	-0.60	21.20	<=38.45	Pass		
		12	0	23.06	-0.60	20.31	<=38.45	Pass		
			6	23.01	-0.60	20.26	<=38.45	Pass		
			13	23.09	-0.60	20.34	<=38.45	Pass		
		25	0	23.01	-0.60	20.26	<=38.45	Pass		
		836.5	1	0	24.18	-0.60	21.43	<=38.45	Pass	
				13	23.77	-0.60	21.02	<=38.45	Pass	
	24			23.70	-0.60	20.95	<=38.45	Pass		
	12		0	22.78	-0.60	20.03	<=38.45	Pass		
			6	22.73	-0.60	19.98	<=38.45	Pass		
			13	22.82	-0.60	20.07	<=38.45	Pass		
	25	0	22.76	-0.60	20.01	<=38.45	Pass			
	846.5	1	0	24.27	-0.60	21.52	<=38.45	Pass		
			13	23.65	-0.60	20.90	<=38.45	Pass		
			24	23.00	-0.60	20.25	<=38.45	Pass		
		12	0	22.39	-0.60	19.64	<=38.45	Pass		
			6	22.44	-0.60	19.69	<=38.45	Pass		
			13	22.49	-0.60	19.74	<=38.45	Pass		
		25	0	22.50	-0.60	19.75	<=38.45	Pass		
		16QAM	826.5	1	0	22.76	-0.60	20.01	<=38.45	Pass
					13	22.75	-0.60	20.00	<=38.45	Pass
	24				22.73	-0.60	19.98	<=38.45	Pass	
12	0			21.67	-0.60	18.92	<=38.45	Pass		
	6			21.61	-0.60	18.86	<=38.45	Pass		
	13			21.84	-0.60	19.09	<=38.45	Pass		



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	836.5	25	0	21.72	-0.60	18.97	<=38.45	Pass	
			1	0	23.05	-0.60	20.30	<=38.45	Pass
				13	23.11	-0.60	20.36	<=38.45	Pass
		12	24	22.94	-0.60	20.19	<=38.45	Pass	
			0	21.84	-0.60	19.09	<=38.45	Pass	
			6	21.81	-0.60	19.06	<=38.45	Pass	
	846.5	25	13	21.85	-0.60	19.10	<=38.45	Pass	
			0	21.74	-0.60	18.99	<=38.45	Pass	
			0	22.15	-0.60	19.40	<=38.45	Pass	
		1	13	22.26	-0.60	19.51	<=38.45	Pass	
			24	21.98	-0.60	19.23	<=38.45	Pass	
			0	21.36	-0.60	18.61	<=38.45	Pass	
		12	6	21.39	-0.60	18.64	<=38.45	Pass	
			13	21.42	-0.60	18.67	<=38.45	Pass	
			25	0	21.56	-0.60	18.81	<=38.45	Pass

Note1: ERP=Power+Antenna Gain-2.15

1.4 B5_10MHz_ERP

1.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTVN									
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	829	1	0	24.13	-0.60	21.38	<=38.45	Pass	
			25	23.69	-0.60	20.94	<=38.45	Pass	
			49	23.99	-0.60	21.24	<=38.45	Pass	
		25	0	22.72	-0.60	19.97	<=38.45	Pass	
			13	22.75	-0.60	20.00	<=38.45	Pass	
			25	22.90	-0.60	20.15	<=38.45	Pass	
		50	0	22.87	-0.60	20.12	<=38.45	Pass	
		836.5	1	0	24.04	-0.60	21.29	<=38.45	Pass
				25	23.56	-0.60	20.81	<=38.45	Pass
	49			23.82	-0.60	21.07	<=38.45	Pass	
	25		0	22.42	-0.60	19.67	<=38.45	Pass	
			13	22.55	-0.60	19.80	<=38.45	Pass	
			25	22.67	-0.60	19.92	<=38.45	Pass	
	50	0	22.64	-0.60	19.89	<=38.45	Pass		
	844	1	0	24.04	-0.60	21.29	<=38.45	Pass	
			25	23.30	-0.60	20.55	<=38.45	Pass	
			49	23.26	-0.60	20.51	<=38.45	Pass	
		25	0	22.10	-0.60	19.35	<=38.45	Pass	
			13	22.21	-0.60	19.46	<=38.45	Pass	
			25	22.29	-0.60	19.54	<=38.45	Pass	



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16QAM	829	50	0	22.34	-0.60	19.59	<=38.45	Pass	
			0	22.75	-0.60	20.00	<=38.45	Pass	
			25	22.55	-0.60	19.80	<=38.45	Pass	
		25	49	22.63	-0.60	19.88	<=38.45	Pass	
			0	21.56	-0.60	18.81	<=38.45	Pass	
			13	21.59	-0.60	18.84	<=38.45	Pass	
	836.5	50	25	21.73	-0.60	18.98	<=38.45	Pass	
			0	21.64	-0.60	18.89	<=38.45	Pass	
			0	22.81	-0.60	20.06	<=38.45	Pass	
		25	25	22.67	-0.60	19.92	<=38.45	Pass	
			49	22.64	-0.60	19.89	<=38.45	Pass	
			0	21.45	-0.60	18.70	<=38.45	Pass	
	844	50	13	21.56	-0.60	18.81	<=38.45	Pass	
			25	21.67	-0.60	18.92	<=38.45	Pass	
			0	21.61	-0.60	18.86	<=38.45	Pass	
		25	0	22.66	-0.60	19.91	<=38.45	Pass	
			25	22.50	-0.60	19.75	<=38.45	Pass	
			49	22.24	-0.60	19.49	<=38.45	Pass	
	50	0	20.99	-0.60	18.24	<=38.45	Pass		
		13	21.20	-0.60	18.45	<=38.45	Pass		
		25	21.41	-0.60	18.66	<=38.45	Pass		
			50	0	21.28	-0.60	18.53	<=38.45	Pass

Note1: ERP=Power+Antenna Gain-2.15

Remark1:

For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Power [dBm] + Gain [dBd]

EIRP [dBm] = Power [dBm] + Gain [dBi]



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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	3.27	8.70	0.01	-2.5 to 2.5	Pass
					3.85	6.09	0.01	-2.5 to 2.5	Pass
					4.43	5.11	0.01	-2.5 to 2.5	Pass
				-30	3.85	2.69	0.00	-2.5 to 2.5	Pass
				-20	3.85	1.97	0.00	-2.5 to 2.5	Pass
				-10	3.85	1.83	0.00	-2.5 to 2.5	Pass
				0	3.85	0.64	0.00	-2.5 to 2.5	Pass
				10	3.85	0.30	0.00	-2.5 to 2.5	Pass
				30	3.85	1.16	0.00	-2.5 to 2.5	Pass
				40	3.85	-1.32	-0.00	-2.5 to 2.5	Pass
	50	3.85	-0.56	-0.00	-2.5 to 2.5	Pass			
	836.5	6	0	20	3.27	-7.35	-0.01	-2.5 to 2.5	Pass
					3.85	-6.88	-0.01	-2.5 to 2.5	Pass
					4.43	-5.49	-0.01	-2.5 to 2.5	Pass
				-30	3.85	-5.05	-0.01	-2.5 to 2.5	Pass
				-20	3.85	-4.59	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-2.70	-0.00	-2.5 to 2.5	Pass
				0	3.85	-3.18	-0.00	-2.5 to 2.5	Pass
				10	3.85	-2.42	-0.00	-2.5 to 2.5	Pass
				30	3.85	-3.00	-0.00	-2.5 to 2.5	Pass
				40	3.85	-1.56	-0.00	-2.5 to 2.5	Pass
	50	3.85	-1.57	-0.00	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.27	-1.02	-0.00	-2.5 to 2.5	Pass
					3.85	14.88	0.02	-2.5 to 2.5	Pass
					4.43	-13.38	-0.02	-2.5 to 2.5	Pass
				-30	3.85	-1.03	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-8.63	-0.01	-2.5 to 2.5	Pass
				-10	3.85	-10.49	-0.01	-2.5 to 2.5	Pass
				0	3.85	-13.25	-0.02	-2.5 to 2.5	Pass
				10	3.85	-13.40	-0.02	-2.5 to 2.5	Pass
30				3.85	-14.46	-0.02	-2.5 to 2.5	Pass	
40				3.85	-13.12	-0.02	-2.5 to 2.5	Pass	
50	3.85	-12.27	-0.01	-2.5 to 2.5	Pass				
16QAM	824.7	6	0	20	3.27	-1.56	-0.00	-2.5 to 2.5	Pass
					3.85	-0.31	-0.00	-2.5 to 2.5	Pass



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	836.5	6	0		4.43	-0.67	-0.00	-2.5 to 2.5	Pass	
				-30	3.85	-1.04	-0.00	-2.5 to 2.5	Pass	
				-20	3.85	-1.13	-0.00	-2.5 to 2.5	Pass	
				-10	3.85	-2.03	-0.00	-2.5 to 2.5	Pass	
				0	3.85	-1.10	-0.00	-2.5 to 2.5	Pass	
				10	3.85	-0.66	-0.00	-2.5 to 2.5	Pass	
				30	3.85	-0.62	-0.00	-2.5 to 2.5	Pass	
				40	3.85	-0.89	-0.00	-2.5 to 2.5	Pass	
				50	3.85	0.00	0.00	-2.5 to 2.5	Pass	
	836.5	6	0	20		3.27	-0.96	-0.00	-2.5 to 2.5	Pass
						3.85	-1.27	-0.00	-2.5 to 2.5	Pass
						4.43	0.17	0.00	-2.5 to 2.5	Pass
					-30	3.85	-0.62	-0.00	-2.5 to 2.5	Pass
					-20	3.85	-1.80	-0.00	-2.5 to 2.5	Pass
					-10	3.85	-1.34	-0.00	-2.5 to 2.5	Pass
					0	3.85	-1.04	-0.00	-2.5 to 2.5	Pass
					10	3.85	-0.26	-0.00	-2.5 to 2.5	Pass
					30	3.85	0.07	0.00	-2.5 to 2.5	Pass
	848.3	6	0	20		3.27	0.06	0.00	-2.5 to 2.5	Pass
						3.85	-0.90	-0.00	-2.5 to 2.5	Pass
						4.43	0.09	0.00	-2.5 to 2.5	Pass
-30					3.85	-0.44	-0.00	-2.5 to 2.5	Pass	
-20					3.85	-0.39	-0.00	-2.5 to 2.5	Pass	
-10					3.85	0.13	0.00	-2.5 to 2.5	Pass	
0					3.85	-0.06	-0.00	-2.5 to 2.5	Pass	
10					3.85	-1.57	-0.00	-2.5 to 2.5	Pass	
30					3.85	-1.00	-0.00	-2.5 to 2.5	Pass	
	40	3.85	-1.77	-0.00	-2.5 to 2.5	Pass				
	50	3.85	-0.31	-0.00	-2.5 to 2.5	Pass				

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		3.27	1.40	0.00	-2.5 to 2.5	Pass
						3.85	0.26	0.00	-2.5 to 2.5	Pass
						4.43	0.86	0.00	-2.5 to 2.5	Pass
					-30	3.85	1.93	0.00	-2.5 to 2.5	Pass
					-20	3.85	-0.11	-0.00	-2.5 to 2.5	Pass
					-10	3.85	1.40	0.00	-2.5 to 2.5	Pass
					0	3.85	1.95	0.00	-2.5 to 2.5	Pass



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16QAM	836.5	15	0	10	3.85	0.33	0.00	-2.5 to 2.5	Pass
				30	3.85	1.59	0.00	-2.5 to 2.5	Pass
				40	3.85	1.96	0.00	-2.5 to 2.5	Pass
				50	3.85	0.19	0.00	-2.5 to 2.5	Pass
				20	3.27	0.21	0.00	-2.5 to 2.5	Pass
					3.85	0.50	0.00	-2.5 to 2.5	Pass
					4.43	0.46	0.00	-2.5 to 2.5	Pass
				-30	3.85	0.37	0.00	-2.5 to 2.5	Pass
				-20	3.85	1.30	0.00	-2.5 to 2.5	Pass
				-10	3.85	1.72	0.00	-2.5 to 2.5	Pass
				0	3.85	2.23	0.00	-2.5 to 2.5	Pass
				10	3.85	2.33	0.00	-2.5 to 2.5	Pass
	30	3.85	2.02	0.00	-2.5 to 2.5	Pass			
	40	3.85	1.50	0.00	-2.5 to 2.5	Pass			
	50	3.85	2.12	0.00	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.27	1.27	0.00	-2.5 to 2.5	Pass
					3.85	1.57	0.00	-2.5 to 2.5	Pass
					4.43	0.73	0.00	-2.5 to 2.5	Pass
				-30	3.85	0.54	0.00	-2.5 to 2.5	Pass
				-20	3.85	1.63	0.00	-2.5 to 2.5	Pass
				-10	3.85	0.54	0.00	-2.5 to 2.5	Pass
				0	3.85	0.72	0.00	-2.5 to 2.5	Pass
				10	3.85	0.30	0.00	-2.5 to 2.5	Pass
				30	3.85	1.10	0.00	-2.5 to 2.5	Pass
40				3.85	1.12	0.00	-2.5 to 2.5	Pass	
50				3.85	1.23	0.00	-2.5 to 2.5	Pass	
16QAM				825.5	15	0	20	3.27	1.12
	3.85	0.93	0.00					-2.5 to 2.5	Pass
	4.43	1.56	0.00					-2.5 to 2.5	Pass
	-30	3.85	1.13				0.00	-2.5 to 2.5	Pass
	-20	3.85	1.53				0.00	-2.5 to 2.5	Pass
	-10	3.85	1.34				0.00	-2.5 to 2.5	Pass
	0	3.85	1.67				0.00	-2.5 to 2.5	Pass
	10	3.85	1.14				0.00	-2.5 to 2.5	Pass
	30	3.85	2.19				0.00	-2.5 to 2.5	Pass
	40	3.85	1.92				0.00	-2.5 to 2.5	Pass
	50	3.85	2.03				0.00	-2.5 to 2.5	Pass
	836.5	15	0				20	3.27	0.96
				3.85	1.54	0.00		-2.5 to 2.5	Pass
				4.43	1.44	0.00		-2.5 to 2.5	Pass
				-30	3.85	1.02	0.00	-2.5 to 2.5	Pass
				-20	3.85	1.16	0.00	-2.5 to 2.5	Pass
				-10	3.85	0.87	0.00	-2.5 to 2.5	Pass
				0	3.85	1.63	0.00	-2.5 to 2.5	Pass
				10	3.85	1.39	0.00	-2.5 to 2.5	Pass
				30	3.85	0.73	0.00	-2.5 to 2.5	Pass
				40	3.85	0.54	0.00	-2.5 to 2.5	Pass
				50	3.85	1.39	0.00	-2.5 to 2.5	Pass



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847.5	15	0	20	3.27	2.03	0.00	-2.5 to 2.5	Pass	
				3.85	1.34	0.00	-2.5 to 2.5	Pass	
				4.43	2.89	0.00	-2.5 to 2.5	Pass	
			-30	3.85	1.43	0.00	-2.5 to 2.5	Pass	
				-20	3.85	1.66	0.00	-2.5 to 2.5	Pass
					-10	3.85	0.43	0.00	-2.5 to 2.5
				0	3.85	2.39	0.00	-2.5 to 2.5	Pass
				10	3.85	1.13	0.00	-2.5 to 2.5	Pass
				30	3.85	2.37	0.00	-2.5 to 2.5	Pass
				40	3.85	0.89	0.00	-2.5 to 2.5	Pass
50	3.85	2.19	0.00	-2.5 to 2.5	Pass				

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	3.27	-1.04	-0.00	-2.5 to 2.5	Pass			
					3.85	-0.21	-0.00	-2.5 to 2.5	Pass			
					4.43	-0.90	-0.00	-2.5 to 2.5	Pass			
				-30	3.85	-0.04	0.00	-2.5 to 2.5	Pass			
					-20	3.85	-0.84	-0.00	-2.5 to 2.5	Pass		
				0	-10	3.85	-0.36	-0.00	-2.5 to 2.5	Pass		
					0	3.85	-1.16	-0.00	-2.5 to 2.5	Pass		
					10	3.85	0.04	0.00	-2.5 to 2.5	Pass		
					30	3.85	-1.33	-0.00	-2.5 to 2.5	Pass		
					40	3.85	-0.39	-0.00	-2.5 to 2.5	Pass		
					50	3.85	-0.43	-0.00	-2.5 to 2.5	Pass		
					836.5	25	0	20	3.27	0.99	0.00	-2.5 to 2.5
				3.85					0.99	0.00	-2.5 to 2.5	Pass
				4.43					1.32	0.00	-2.5 to 2.5	Pass
	-30	3.85	0.20	0.00				-2.5 to 2.5	Pass			
		-20	3.85	0.23				0.00	-2.5 to 2.5	Pass		
	0	-10	3.85	-0.20				-0.00	-2.5 to 2.5	Pass		
		0	3.85	0.14				0.00	-2.5 to 2.5	Pass		
		10	3.85	0.46				0.00	-2.5 to 2.5	Pass		
		30	3.85	1.02				0.00	-2.5 to 2.5	Pass		
		40	3.85	1.65				0.00	-2.5 to 2.5	Pass		
		50	3.85	1.36				0.00	-2.5 to 2.5	Pass		
		846.5	25	0				20	3.27	-0.26	-0.00	-2.5 to 2.5
	3.85								1.73	0.00	-2.5 to 2.5	Pass
	4.43								0.50	0.00	-2.5 to 2.5	Pass
	-30				3.85	0.36	0.00	-2.5 to 2.5	Pass			
	-20				3.85	1.27	0.00	-2.5 to 2.5	Pass			



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				-10	3.85	-0.20	-0.00	-2.5 to 2.5	Pass
				0	3.85	0.51	0.00	-2.5 to 2.5	Pass
				10	3.85	1.37	0.00	-2.5 to 2.5	Pass
				30	3.85	0.46	0.00	-2.5 to 2.5	Pass
				40	3.85	0.11	0.00	-2.5 to 2.5	Pass
				50	3.85	1.44	0.00	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-0.83	-0.00	-2.5 to 2.5	Pass
					3.85	0.49	0.00	-2.5 to 2.5	Pass
					4.43	0.29	0.00	-2.5 to 2.5	Pass
				-30	3.85	0.66	0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.37	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-0.06	-0.00	-2.5 to 2.5	Pass
				0	3.85	-1.26	-0.00	-2.5 to 2.5	Pass
				10	3.85	0.20	0.00	-2.5 to 2.5	Pass
				30	3.85	-0.99	-0.00	-2.5 to 2.5	Pass
				40	3.85	-0.66	-0.00	-2.5 to 2.5	Pass
	50	3.85	-0.64	-0.00	-2.5 to 2.5	Pass			
	836.5	25	0	20	3.27	2.73	0.00	-2.5 to 2.5	Pass
					3.85	3.23	0.00	-2.5 to 2.5	Pass
					4.43	1.32	0.00	-2.5 to 2.5	Pass
				-30	3.85	0.76	0.00	-2.5 to 2.5	Pass
				-20	3.85	2.16	0.00	-2.5 to 2.5	Pass
				-10	3.85	2.70	0.00	-2.5 to 2.5	Pass
				0	3.85	2.83	0.00	-2.5 to 2.5	Pass
				10	3.85	2.30	0.00	-2.5 to 2.5	Pass
				30	3.85	1.76	0.00	-2.5 to 2.5	Pass
				40	3.85	0.80	0.00	-2.5 to 2.5	Pass
	50	3.85	2.35	0.00	-2.5 to 2.5	Pass			
	846.5	25	0	20	3.27	1.83	0.00	-2.5 to 2.5	Pass
					3.85	0.62	0.00	-2.5 to 2.5	Pass
					4.43	0.31	0.00	-2.5 to 2.5	Pass
				-30	3.85	0.69	0.00	-2.5 to 2.5	Pass
				-20	3.85	1.47	0.00	-2.5 to 2.5	Pass
				-10	3.85	0.86	0.00	-2.5 to 2.5	Pass
				0	3.85	0.67	0.00	-2.5 to 2.5	Pass
				10	3.85	0.10	0.00	-2.5 to 2.5	Pass
30				3.85	0.26	0.00	-2.5 to 2.5	Pass	
40				3.85	0.76	0.00	-2.5 to 2.5	Pass	
50	3.85	0.27	0.00	-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	3.27	1.10	0.00	-2.5 to 2.5	Pass
					3.85	-0.29	-0.00	-2.5 to 2.5	Pass
					4.43	-0.07	-0.00	-2.5 to 2.5	Pass
				-30	3.85	1.00	0.00	-2.5 to 2.5	Pass
				-20	3.85	0.60	0.00	-2.5 to 2.5	Pass
				-10	3.85	0.60	0.00	-2.5 to 2.5	Pass
				0	3.85	0.92	0.00	-2.5 to 2.5	Pass
				10	3.85	0.66	0.00	-2.5 to 2.5	Pass
				30	3.85	0.64	0.00	-2.5 to 2.5	Pass
				40	3.85	0.50	0.00	-2.5 to 2.5	Pass
	50	3.85	-0.34	-0.00	-2.5 to 2.5	Pass			
	836.5	50	0	20	3.27	1.20	0.00	-2.5 to 2.5	Pass
					3.85	0.76	0.00	-2.5 to 2.5	Pass
					4.43	1.32	0.00	-2.5 to 2.5	Pass
				-30	3.85	0.07	0.00	-2.5 to 2.5	Pass
				-20	3.85	1.09	0.00	-2.5 to 2.5	Pass
				-10	3.85	1.14	0.00	-2.5 to 2.5	Pass
				0	3.85	1.14	0.00	-2.5 to 2.5	Pass
				10	3.85	0.84	0.00	-2.5 to 2.5	Pass
				30	3.85	0.57	0.00	-2.5 to 2.5	Pass
				40	3.85	0.39	0.00	-2.5 to 2.5	Pass
	50	3.85	-0.41	-0.00	-2.5 to 2.5	Pass			
	844	50	0	20	3.27	0.86	0.00	-2.5 to 2.5	Pass
					3.85	0.33	0.00	-2.5 to 2.5	Pass
					4.43	0.23	0.00	-2.5 to 2.5	Pass
				-30	3.85	0.19	0.00	-2.5 to 2.5	Pass
				-20	3.85	0.19	0.00	-2.5 to 2.5	Pass
				-10	3.85	1.32	0.00	-2.5 to 2.5	Pass
				0	3.85	-1.34	-0.00	-2.5 to 2.5	Pass
				10	3.85	0.69	0.00	-2.5 to 2.5	Pass
30				3.85	0.14	0.00	-2.5 to 2.5	Pass	
40				3.85	-0.34	-0.00	-2.5 to 2.5	Pass	
50	3.85	0.66	0.00	-2.5 to 2.5	Pass				
16QAM	829	50	0	20	3.27	-1.03	-0.00	-2.5 to 2.5	Pass
					3.85	1.09	0.00	-2.5 to 2.5	Pass
					4.43	-1.24	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-0.10	-0.00	-2.5 to 2.5	Pass
-20	3.85	-0.93	-0.00	-2.5 to 2.5	Pass				



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				-10	3.85	-0.50	-0.00	-2.5 to 2.5	Pass			
				0	3.85	0.90	0.00	-2.5 to 2.5	Pass			
				10	3.85	-1.44	-0.00	-2.5 to 2.5	Pass			
				30	3.85	0.11	0.00	-2.5 to 2.5	Pass			
				40	3.85	-1.70	-0.00	-2.5 to 2.5	Pass			
				50	3.85	-0.21	-0.00	-2.5 to 2.5	Pass			
	836.5	50	0	20	3.27	0.34	0.00	-2.5 to 2.5	Pass			
3.85					-0.86	-0.00	-2.5 to 2.5	Pass				
4.43					-1.20	-0.00	-2.5 to 2.5	Pass				
							-30	3.85	-0.64	-0.00	-2.5 to 2.5	Pass
							-20	3.85	0.03	0.00	-2.5 to 2.5	Pass
							-10	3.85	-0.64	-0.00	-2.5 to 2.5	Pass
							0	3.85	-0.77	-0.00	-2.5 to 2.5	Pass
							10	3.85	-0.49	-0.00	-2.5 to 2.5	Pass
							30	3.85	-1.53	-0.00	-2.5 to 2.5	Pass
							40	3.85	-0.57	-0.00	-2.5 to 2.5	Pass
							50	3.85	-1.39	-0.00	-2.5 to 2.5	Pass
				844	50	0	20	3.27	-1.27	-0.00	-2.5 to 2.5	Pass
3.85								-0.70	-0.00	-2.5 to 2.5	Pass	
4.43	-1.00	-0.00	-2.5 to 2.5					Pass				
							-30	3.85	-0.20	-0.00	-2.5 to 2.5	Pass
							-20	3.85	0.09	0.00	-2.5 to 2.5	Pass
							-10	3.85	-0.47	-0.00	-2.5 to 2.5	Pass
							0	3.85	-1.04	-0.00	-2.5 to 2.5	Pass
							10	3.85	-2.00	-0.00	-2.5 to 2.5	Pass
							30	3.85	-1.44	-0.00	-2.5 to 2.5	Pass
							40	3.85	-0.59	-0.00	-2.5 to 2.5	Pass
							50	3.85	-0.17	-0.00	-2.5 to 2.5	Pass



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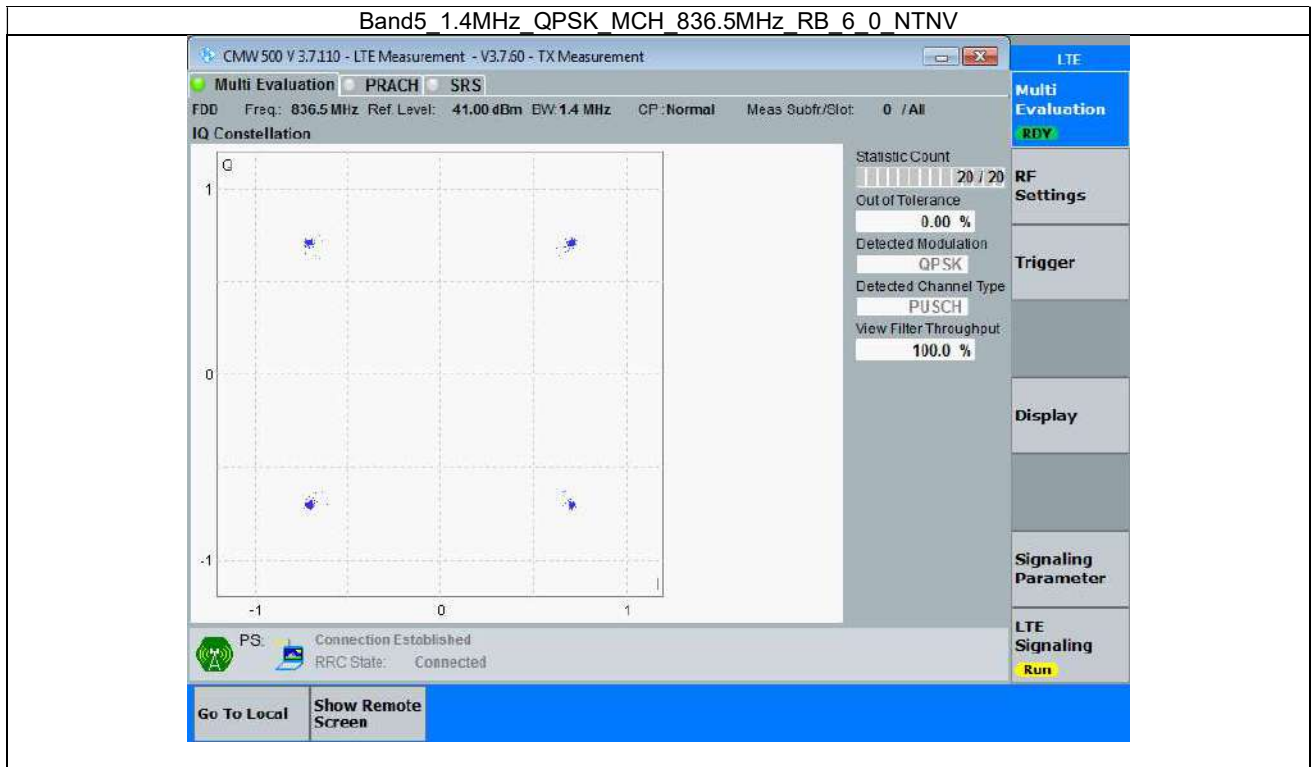
3. Modulation Characteristics

3.1 B5_1.4MHz

3.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	6	0	Refer To Test Graph		Pass
16QAM	836.5	6	0	Refer To Test Graph		Pass

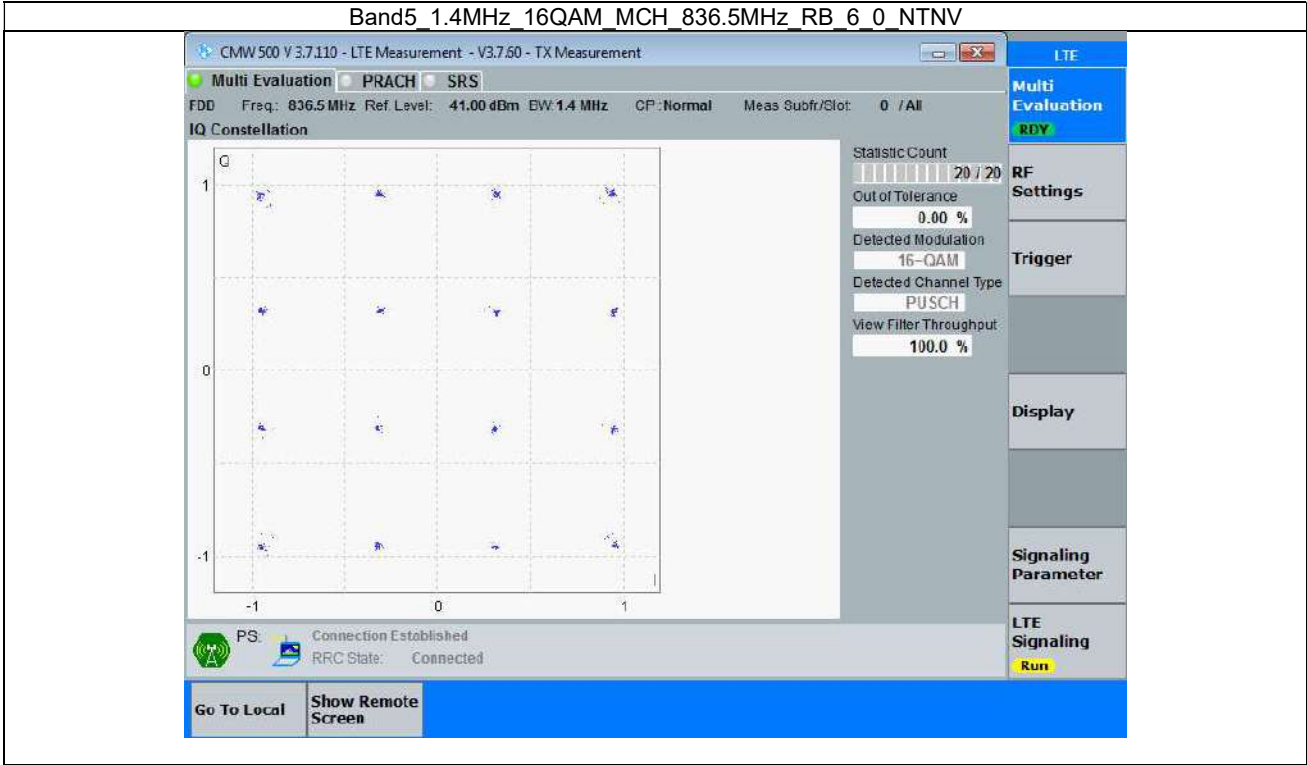
3.1.2 Test Graph



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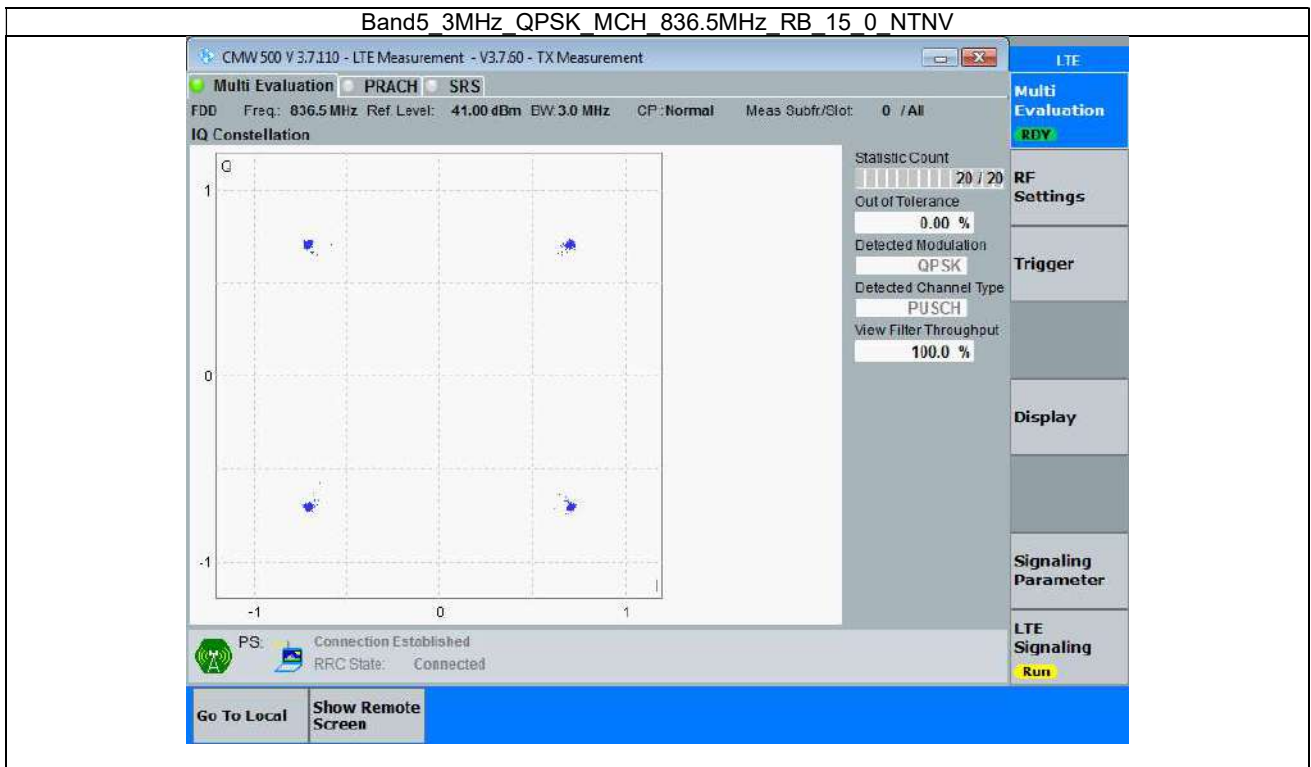
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3.2 B5_3MHz

3.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	15	0	Refer To Test Graph		Pass
16QAM	836.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

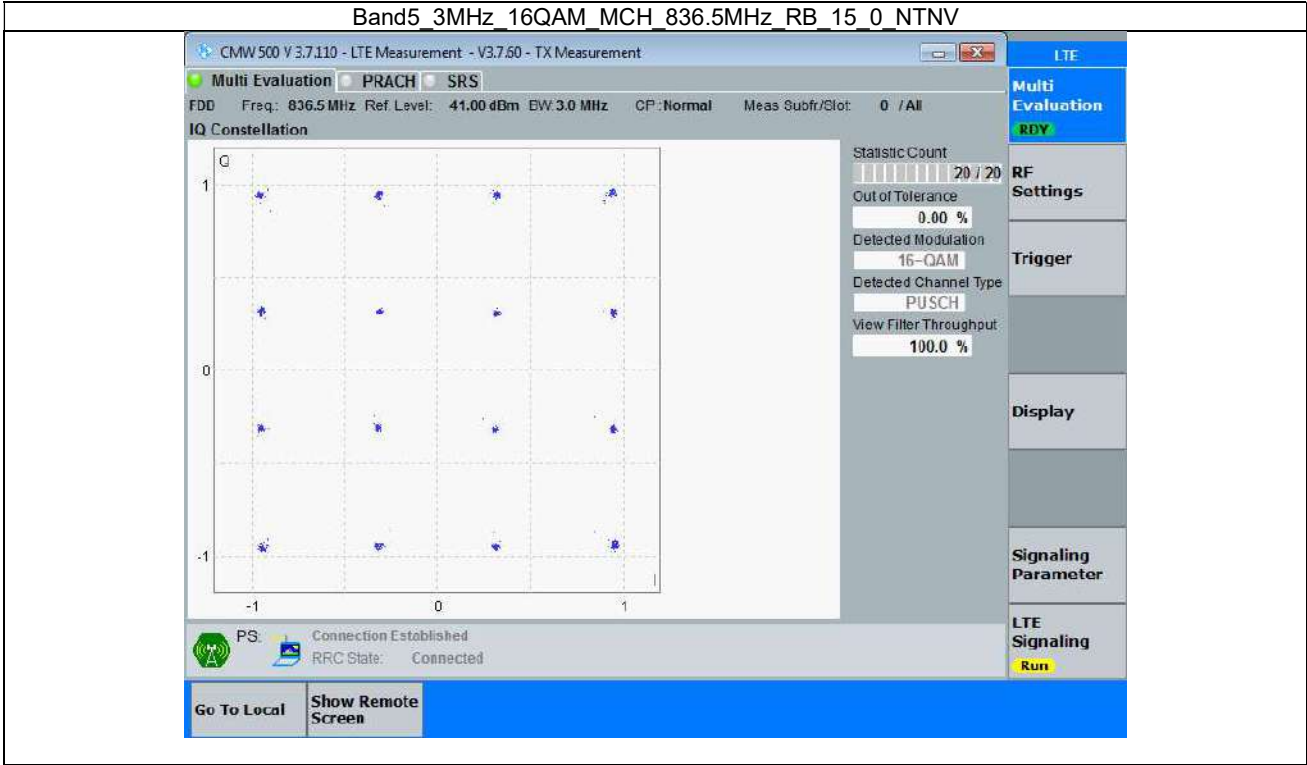


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3.3 B5_5MHz

3.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass



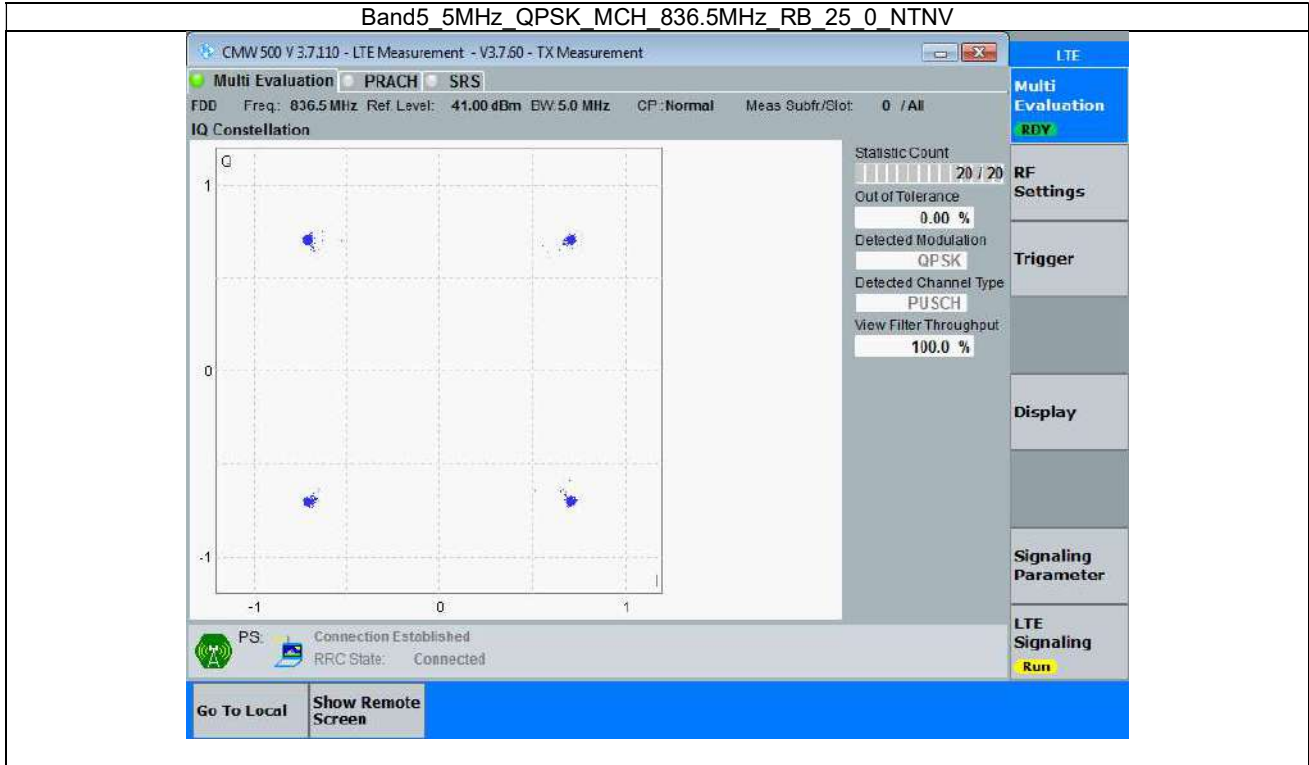
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3.3.2 Test Graph

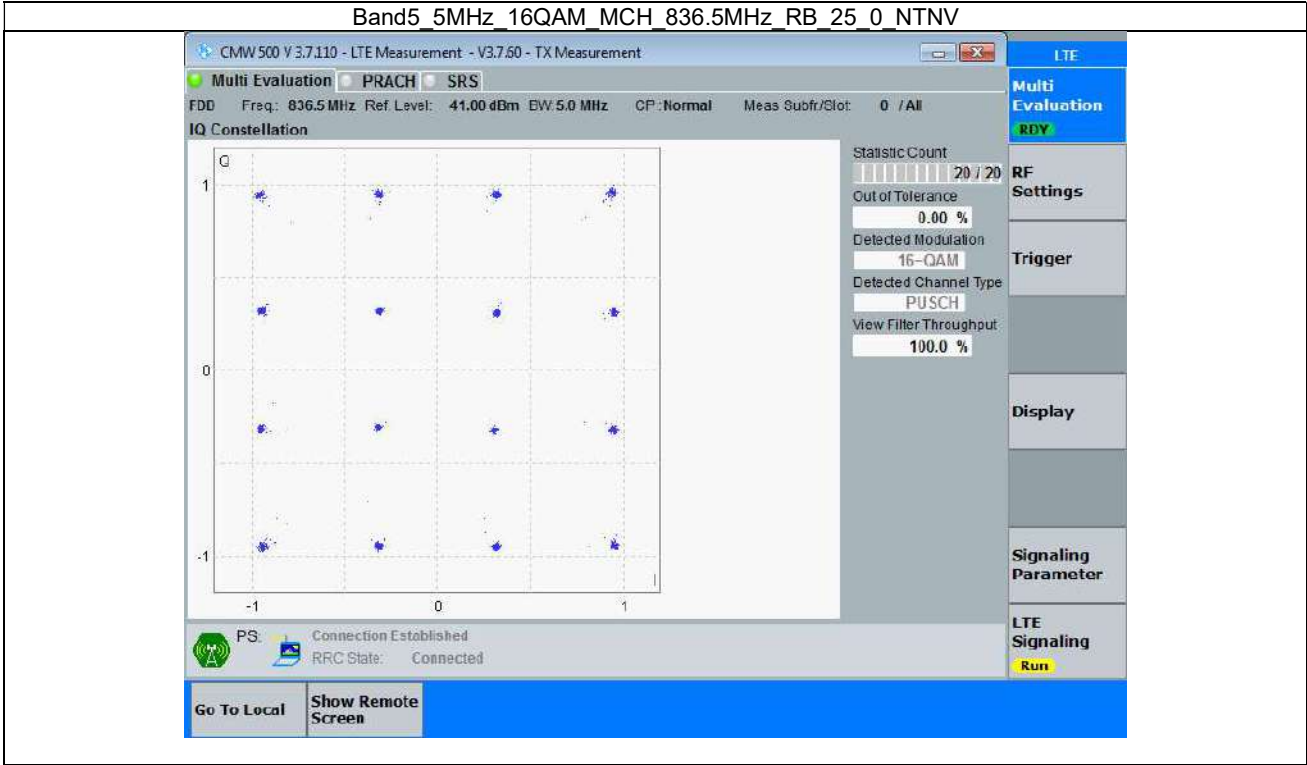


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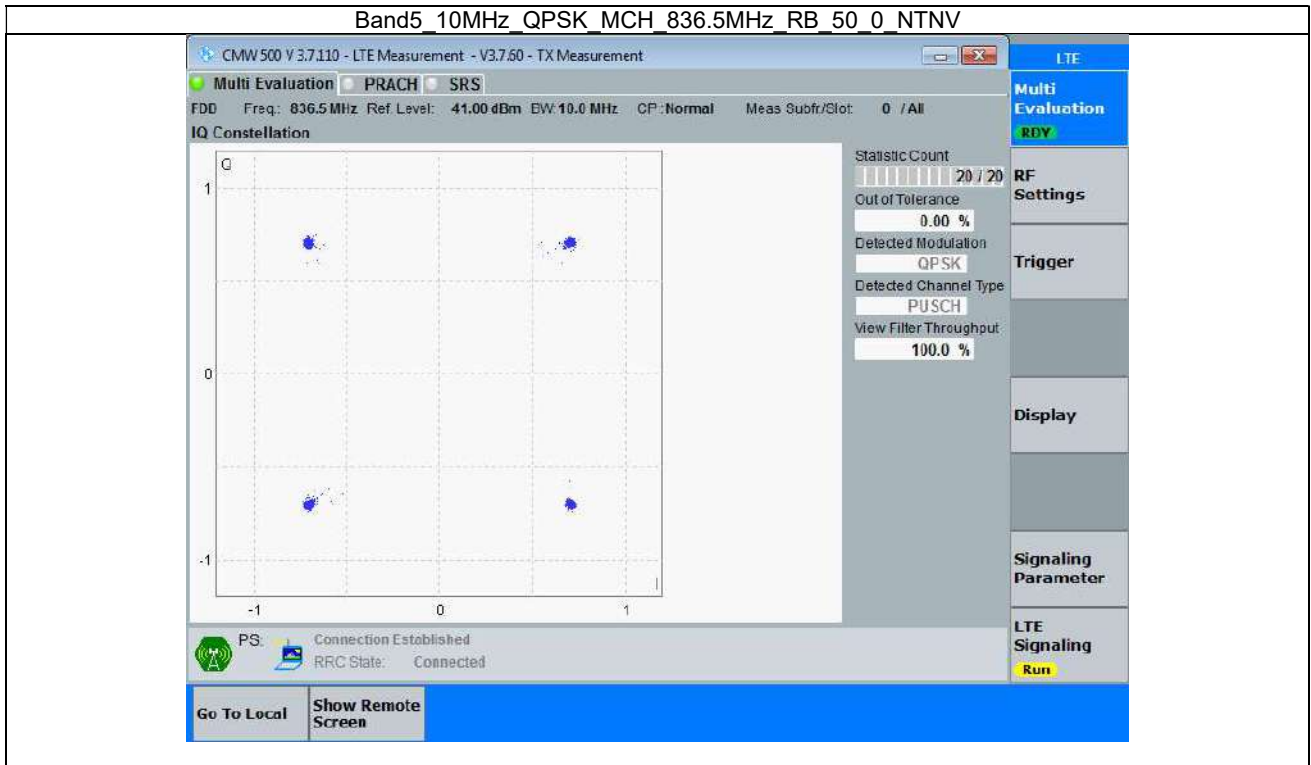
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3.4 B5_10MHz

3.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass

3.4.2 Test Graph

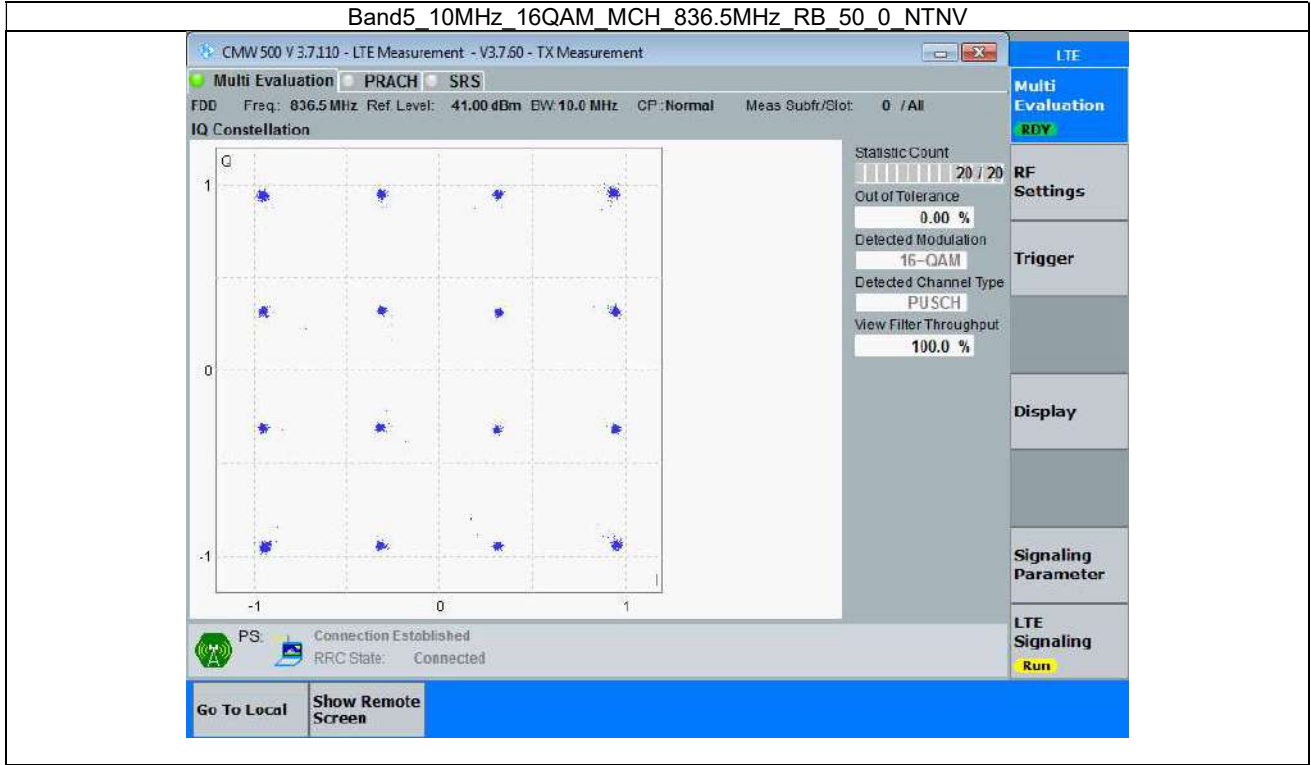


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4. 99% & 26dB Bandwidth

4.1 Band5_OBW

4.1.1 Test Result

Band: 5 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	824.7	6	0	1.109	Pass
		836.5	6	0	1.114	Pass
		848.3	6	0	1.112	Pass
	16QAM	824.7	6	0	1.105	Pass
		836.5	6	0	1.120	Pass
		848.3	6	0	1.114	Pass
3	QPSK	825.5	15	0	2.747	Pass
		836.5	15	0	2.748	Pass
		847.5	15	0	2.748	Pass
	16QAM	825.5	15	0	2.744	Pass
		836.5	15	0	2.750	Pass
		847.5	15	0	2.738	Pass
5	QPSK	826.5	25	0	4.558	Pass
		836.5	25	0	4.539	Pass
		846.5	25	0	4.552	Pass
	16QAM	826.5	25	0	4.576	Pass
		836.5	25	0	4.558	Pass
		846.5	25	0	4.530	Pass
10	QPSK	829	50	0	9.041	Pass
		836.5	50	0	9.043	Pass
		844	50	0	9.048	Pass
	16QAM	829	50	0	9.047	Pass
		836.5	50	0	9.042	Pass
		844	50	0	9.017	Pass



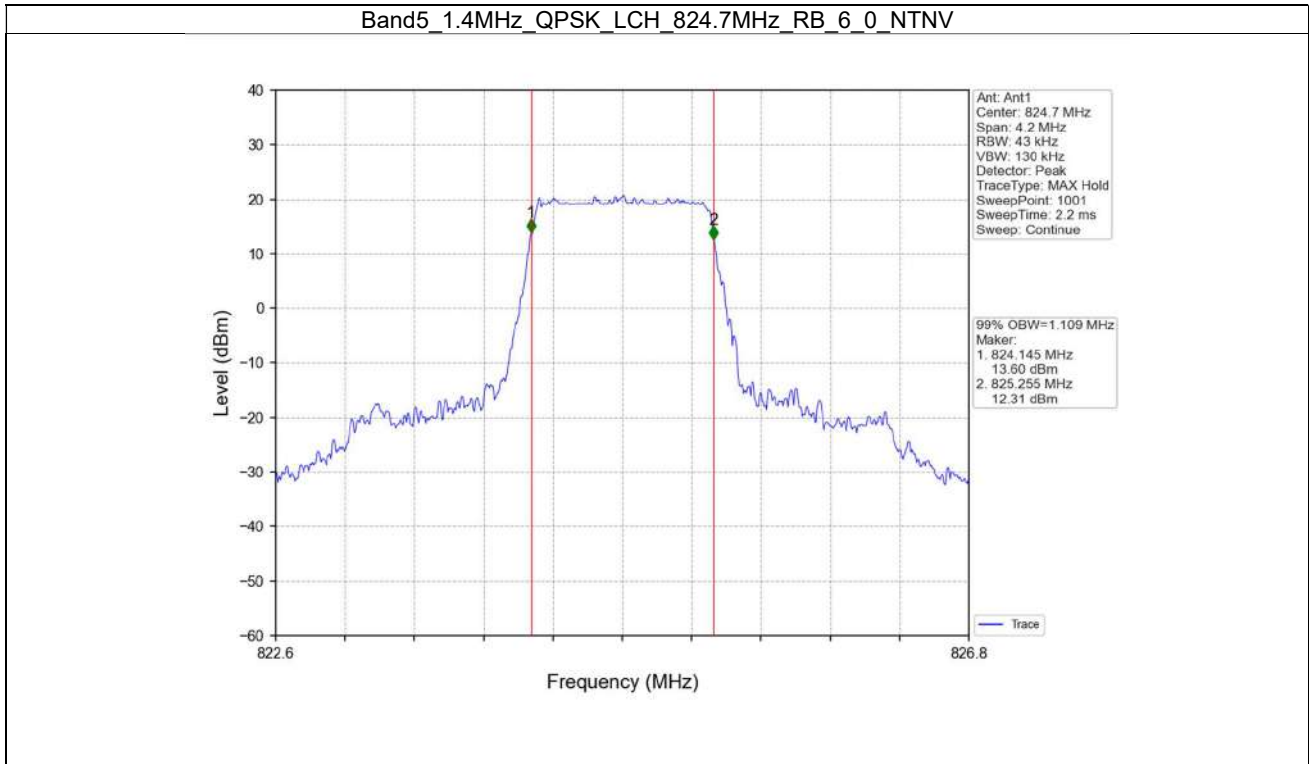
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4.1.2 Test Graph

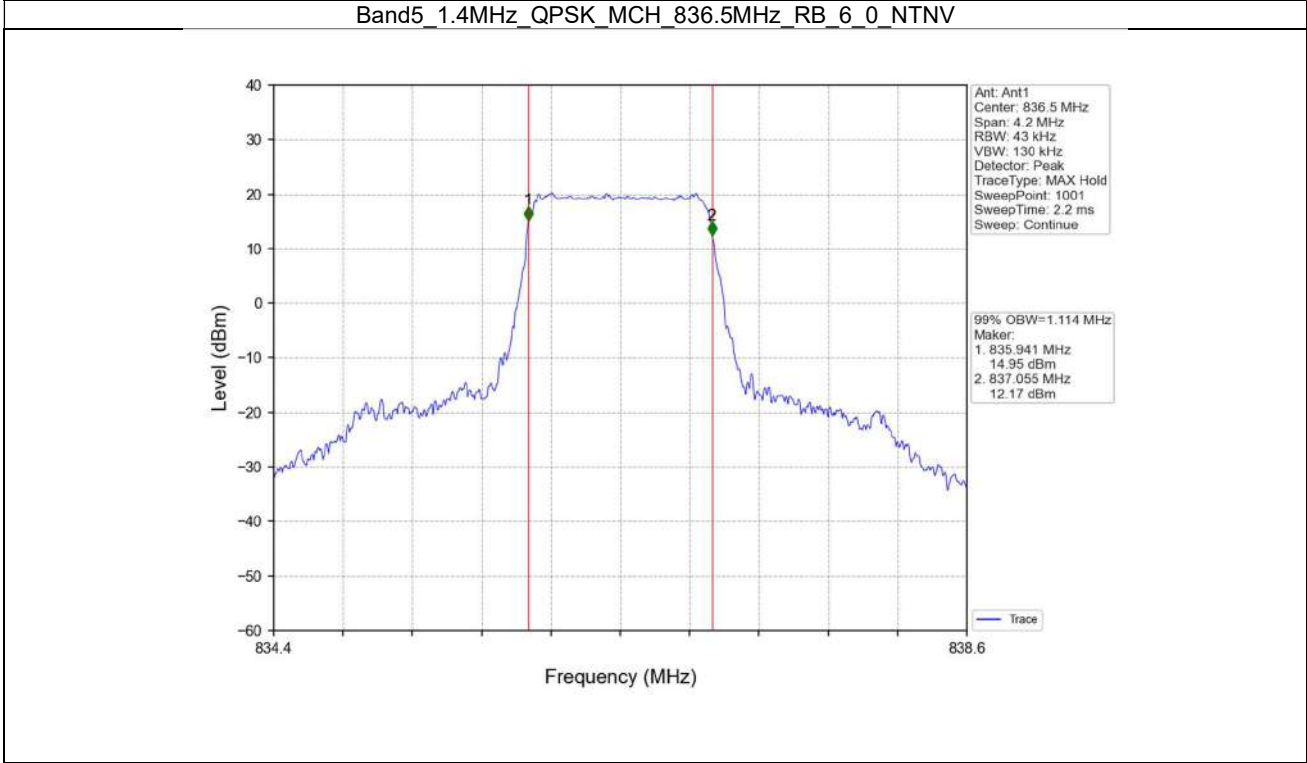


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Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



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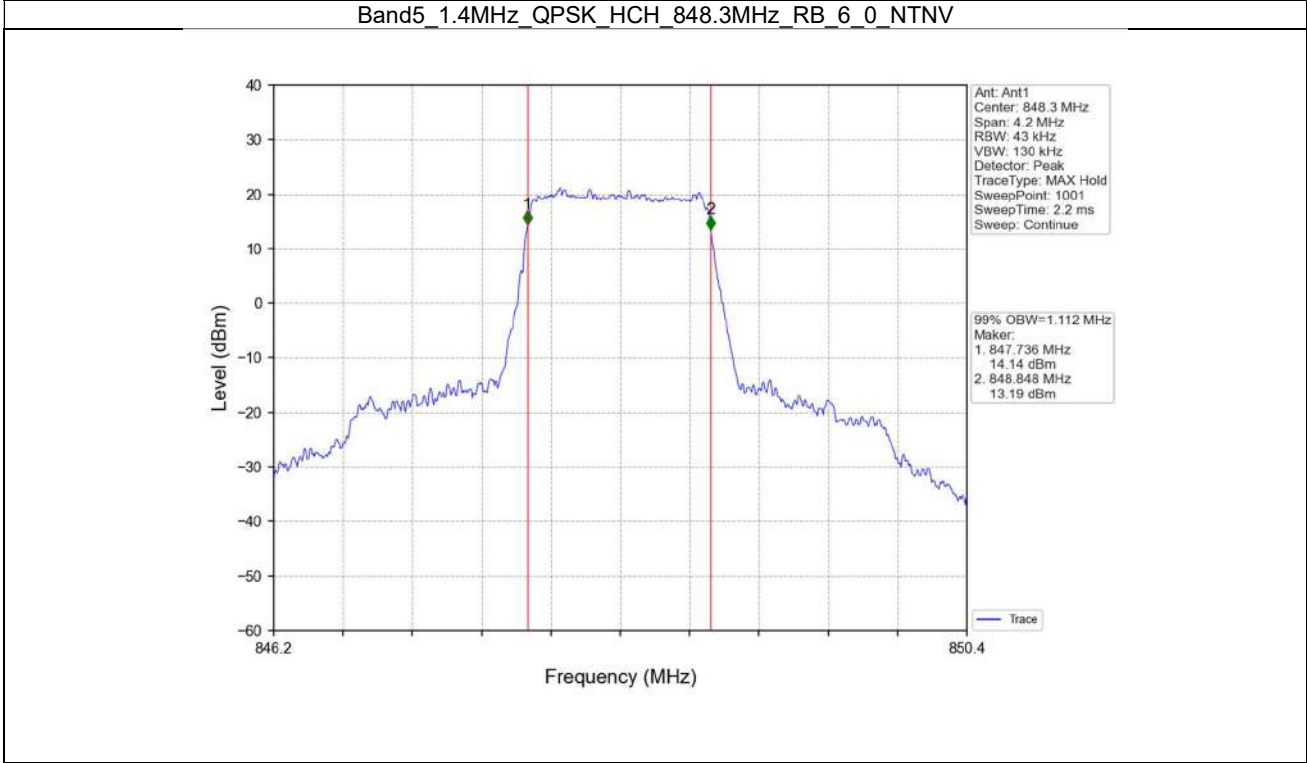
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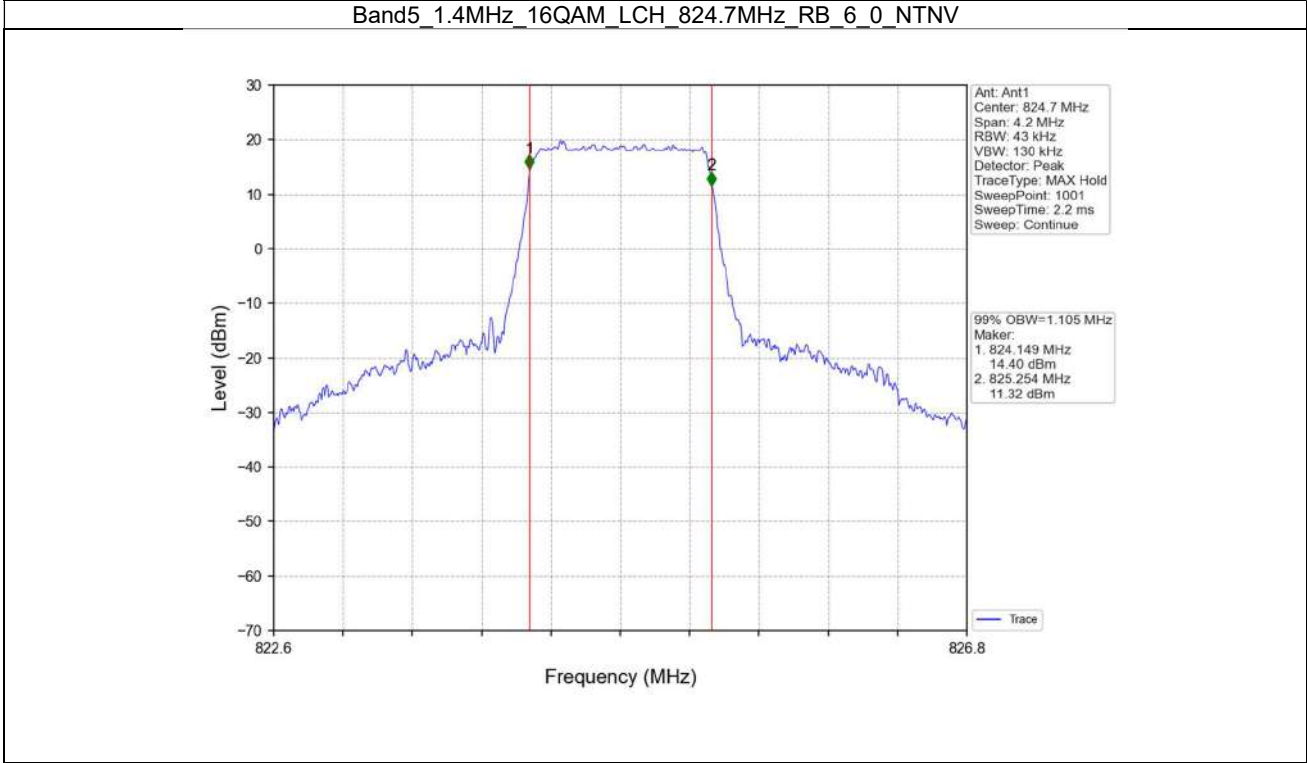
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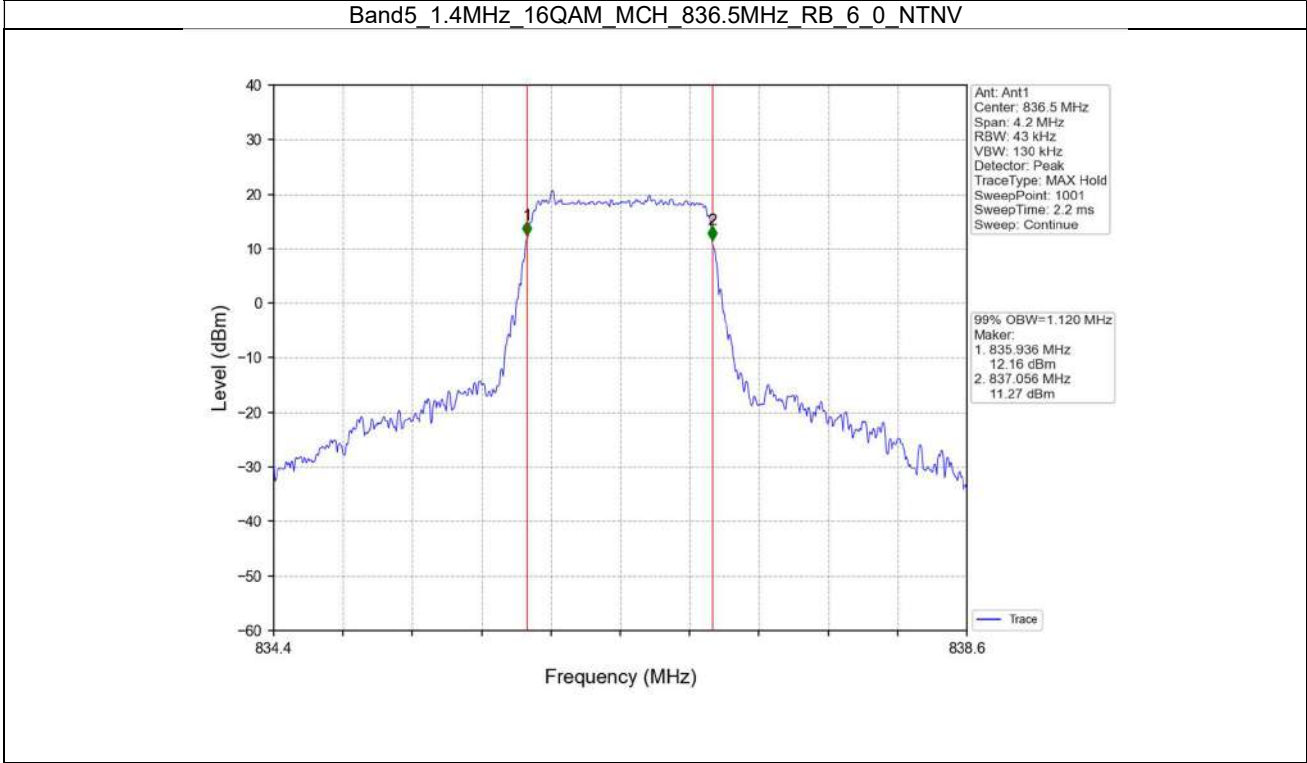
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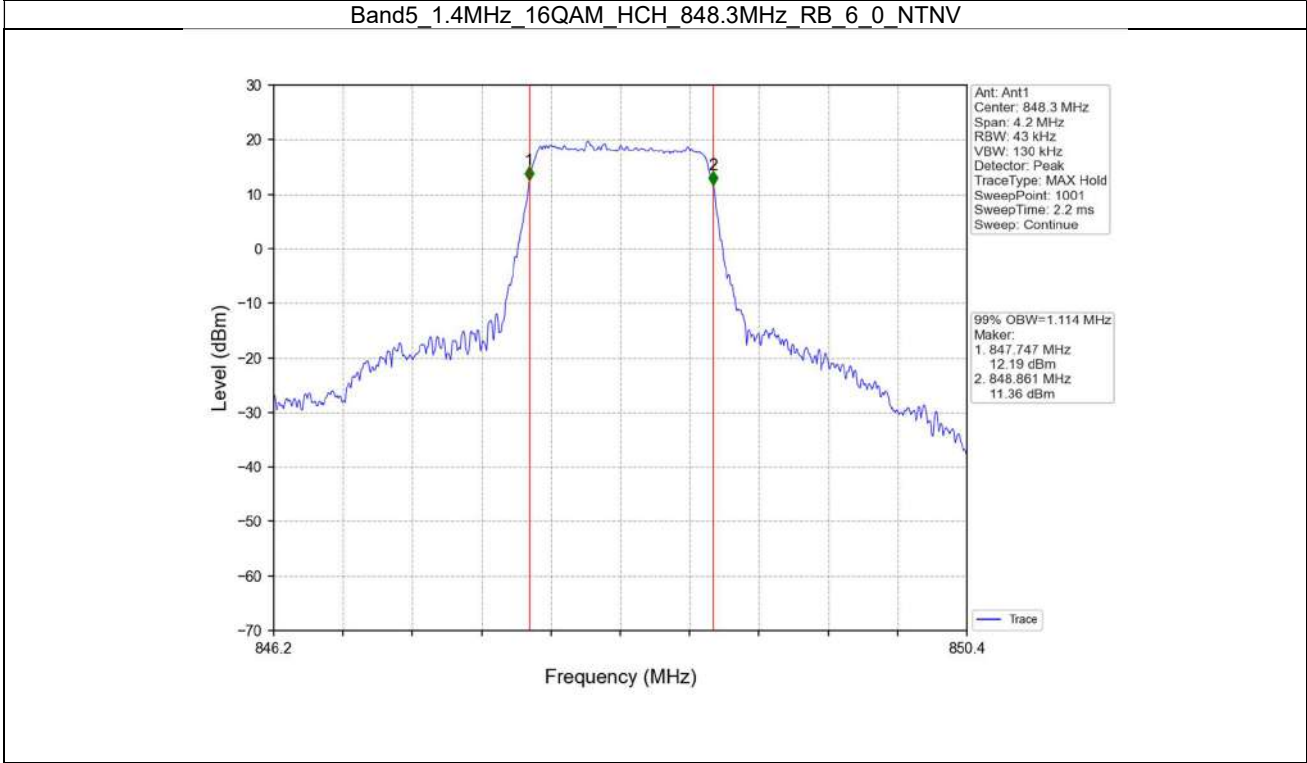
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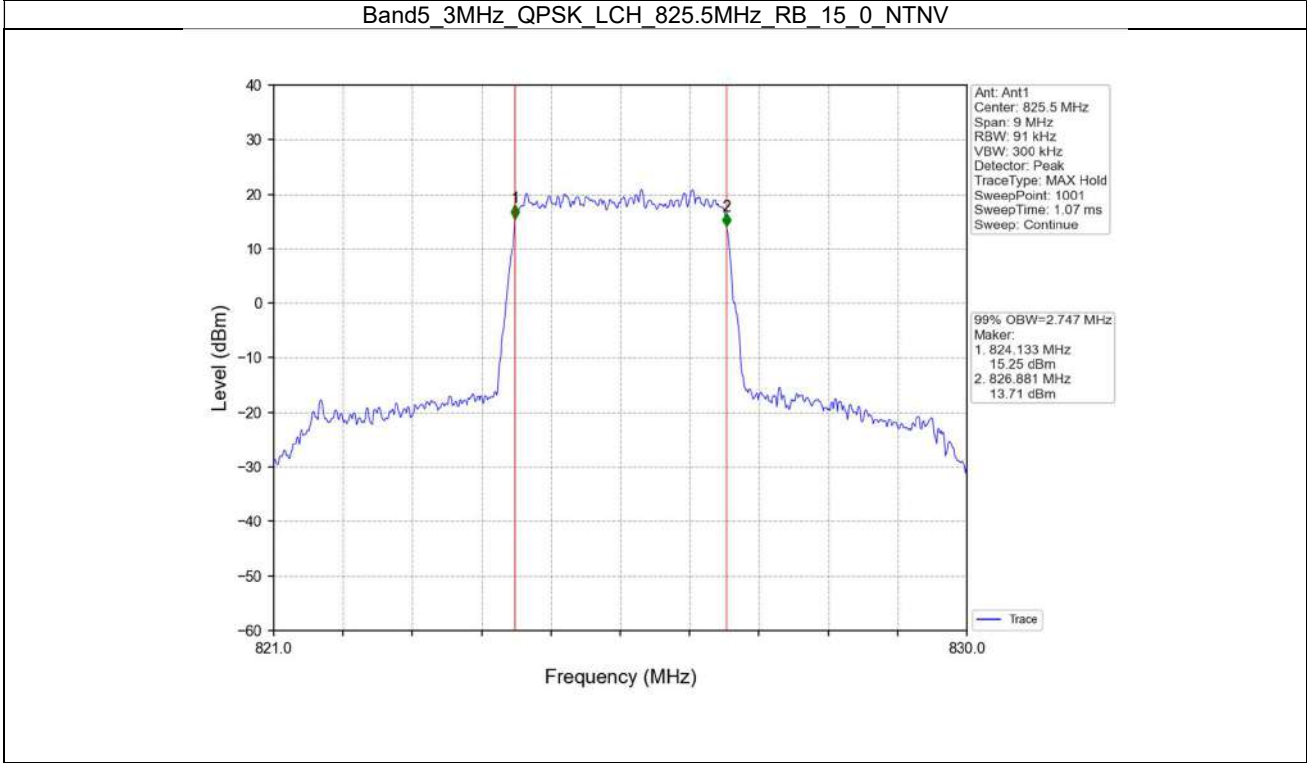
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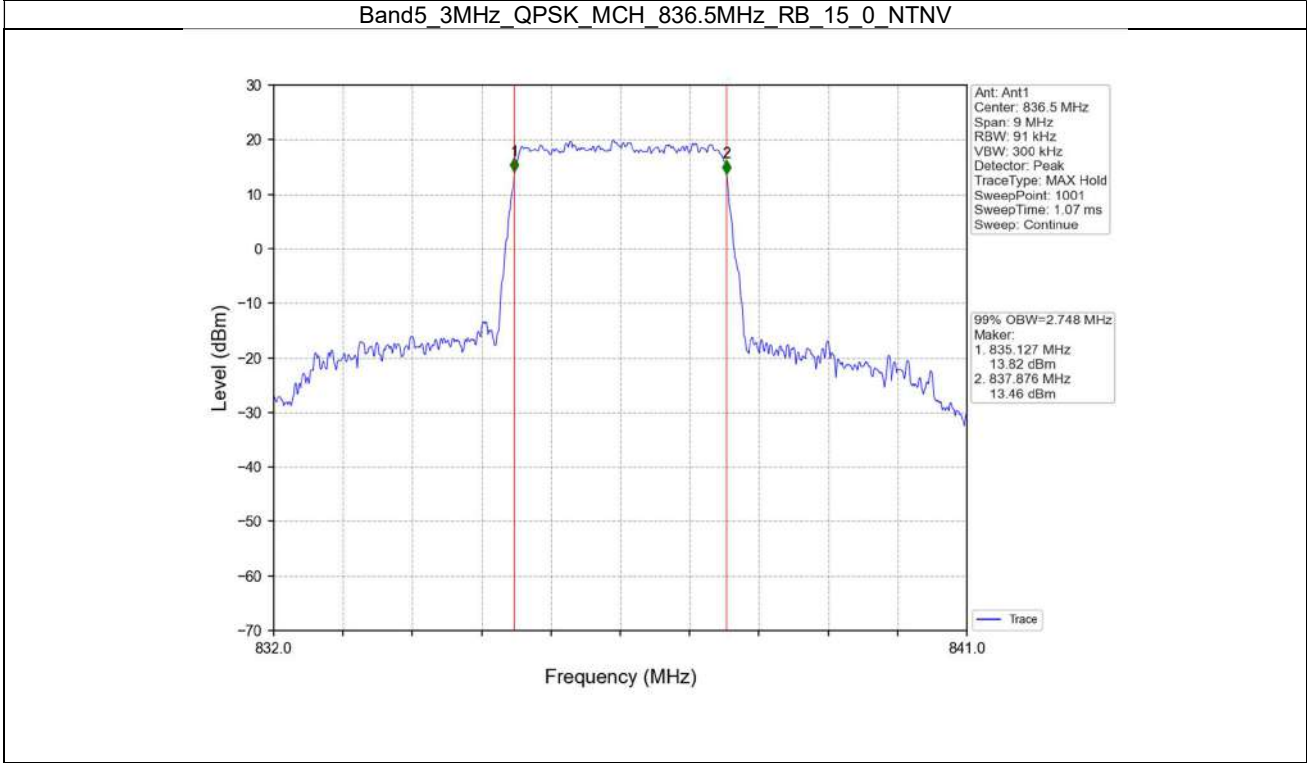
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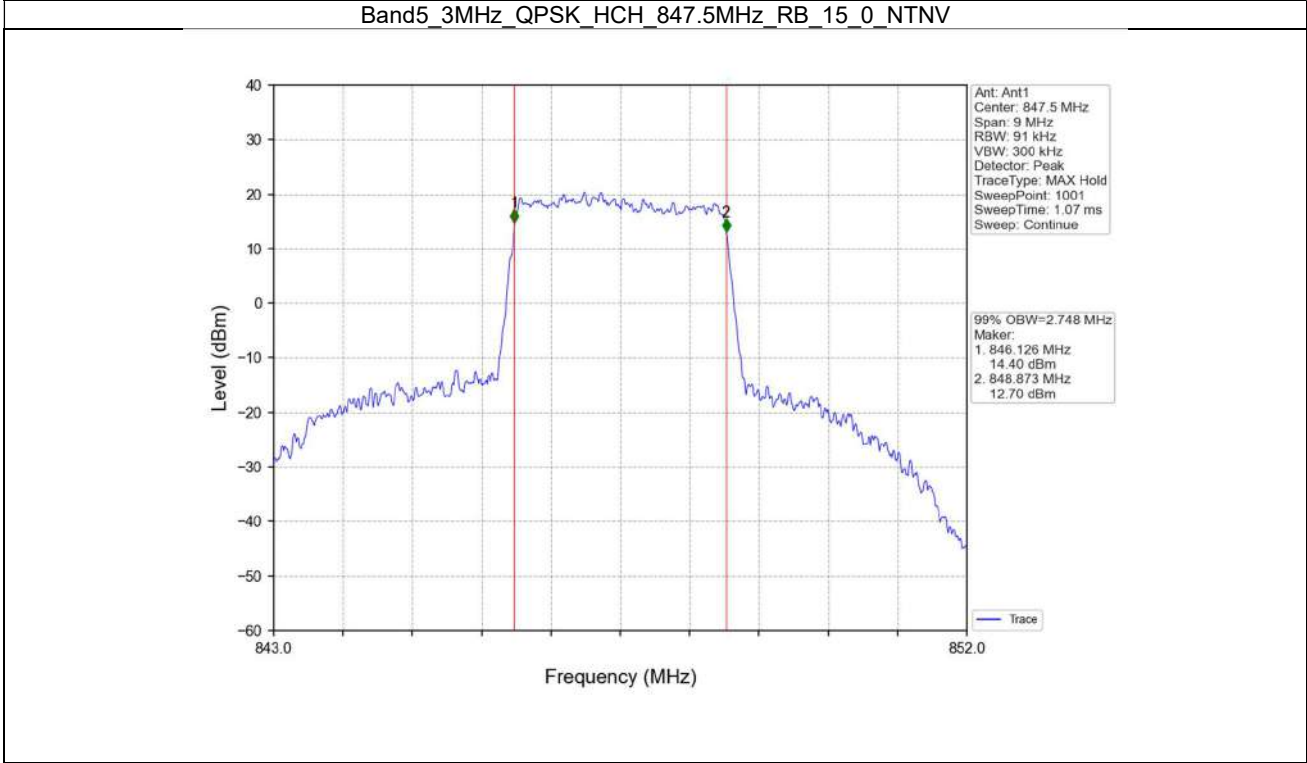
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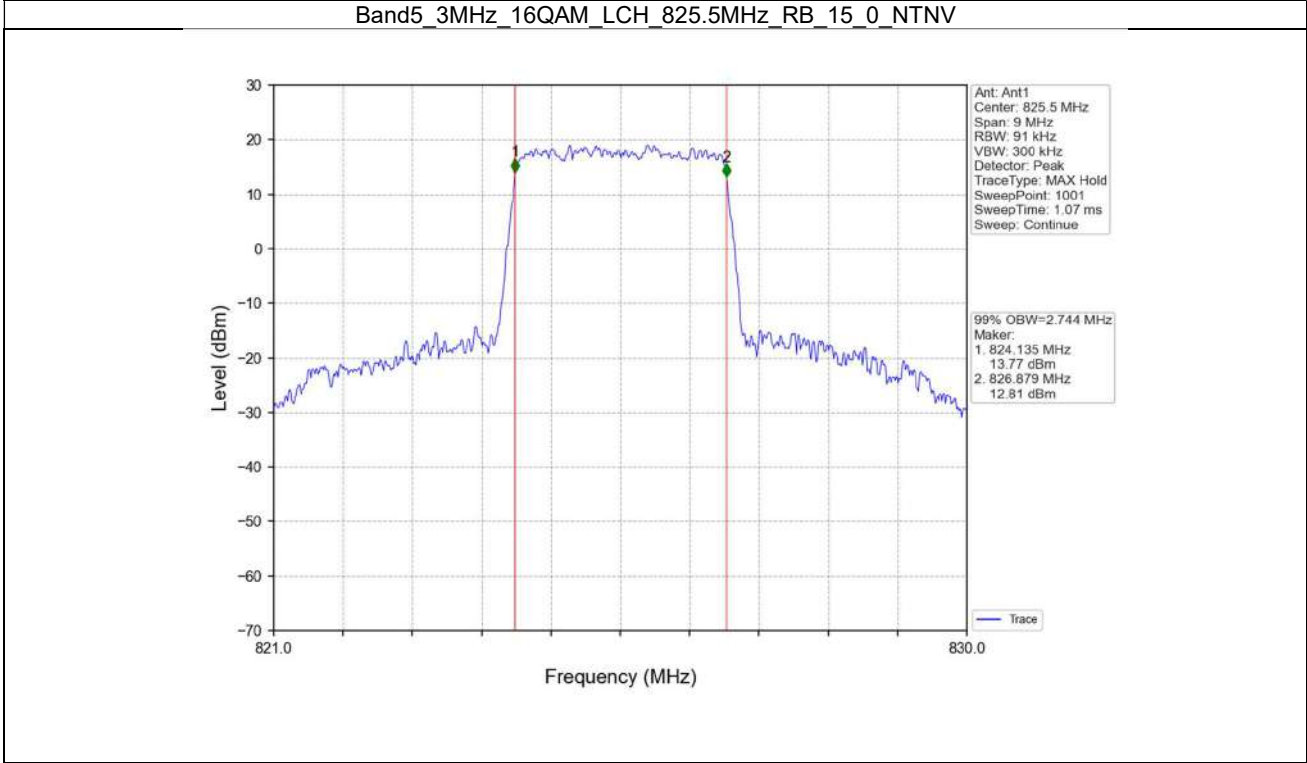
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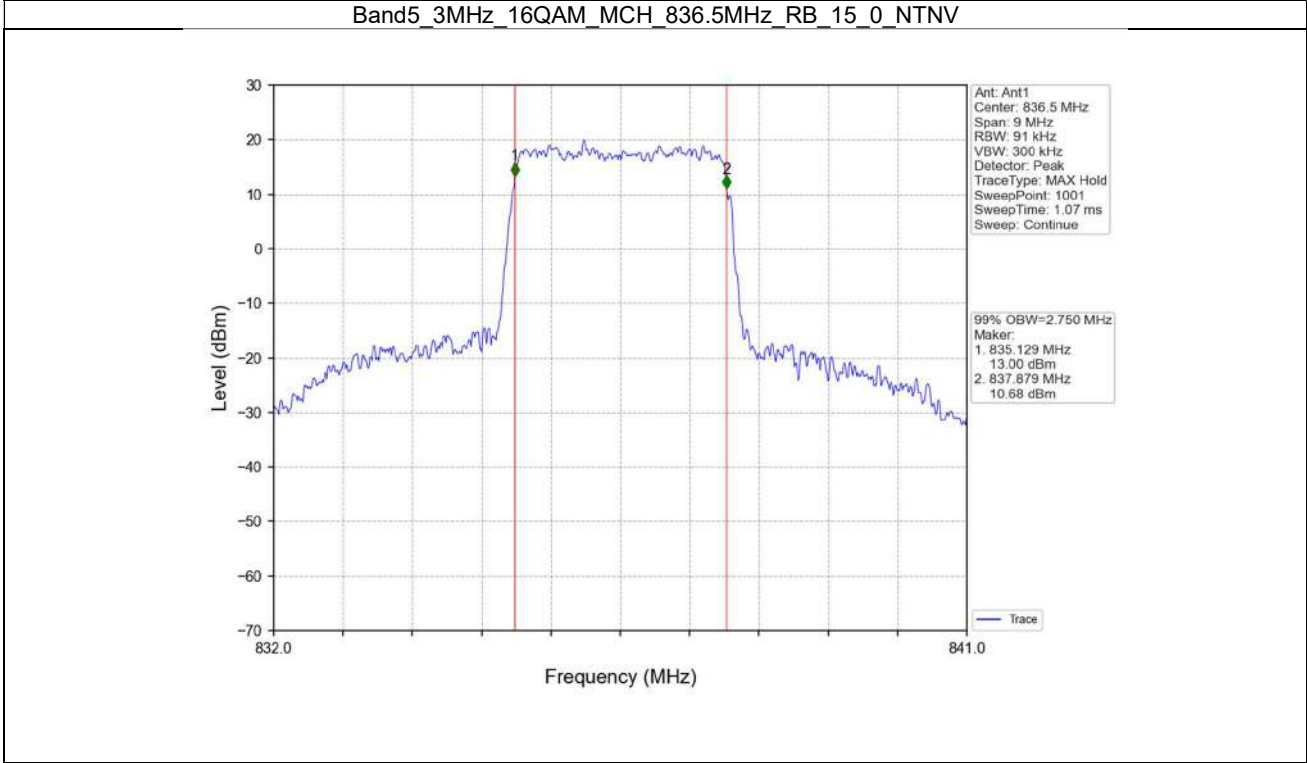
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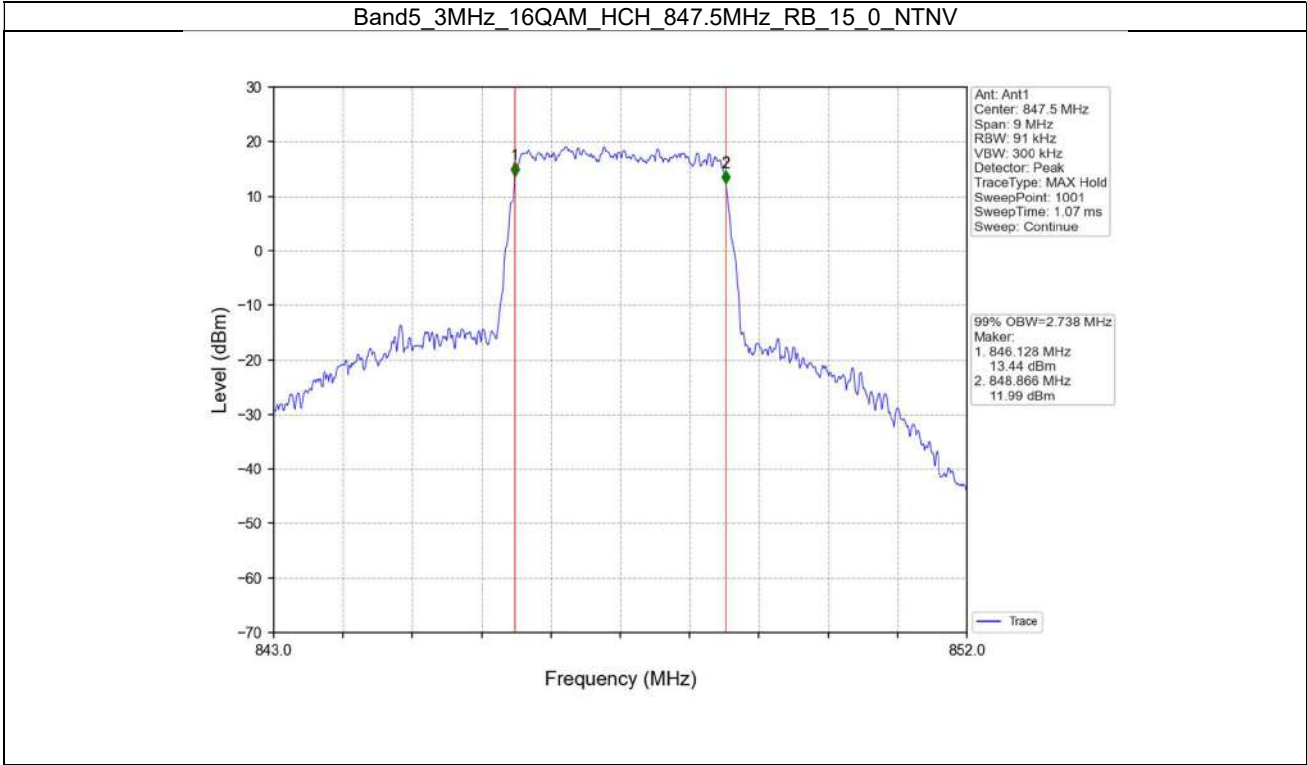


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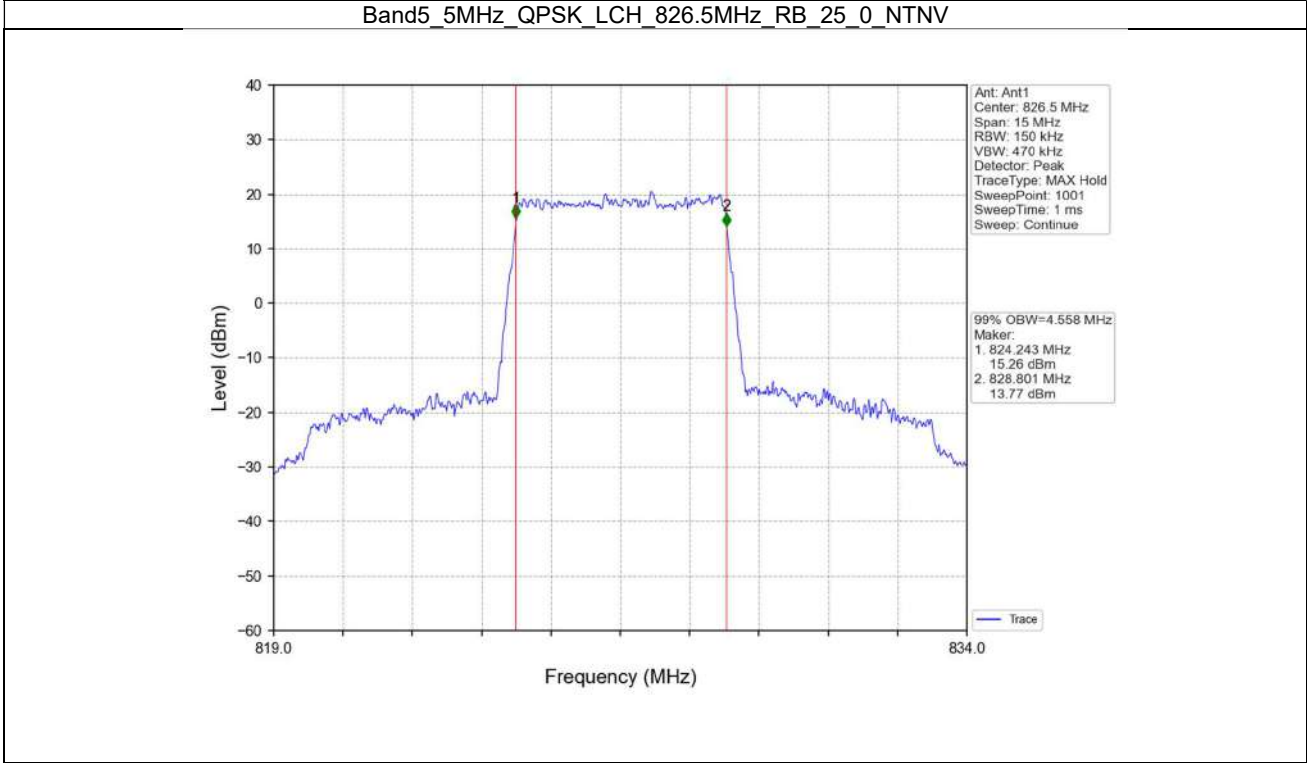


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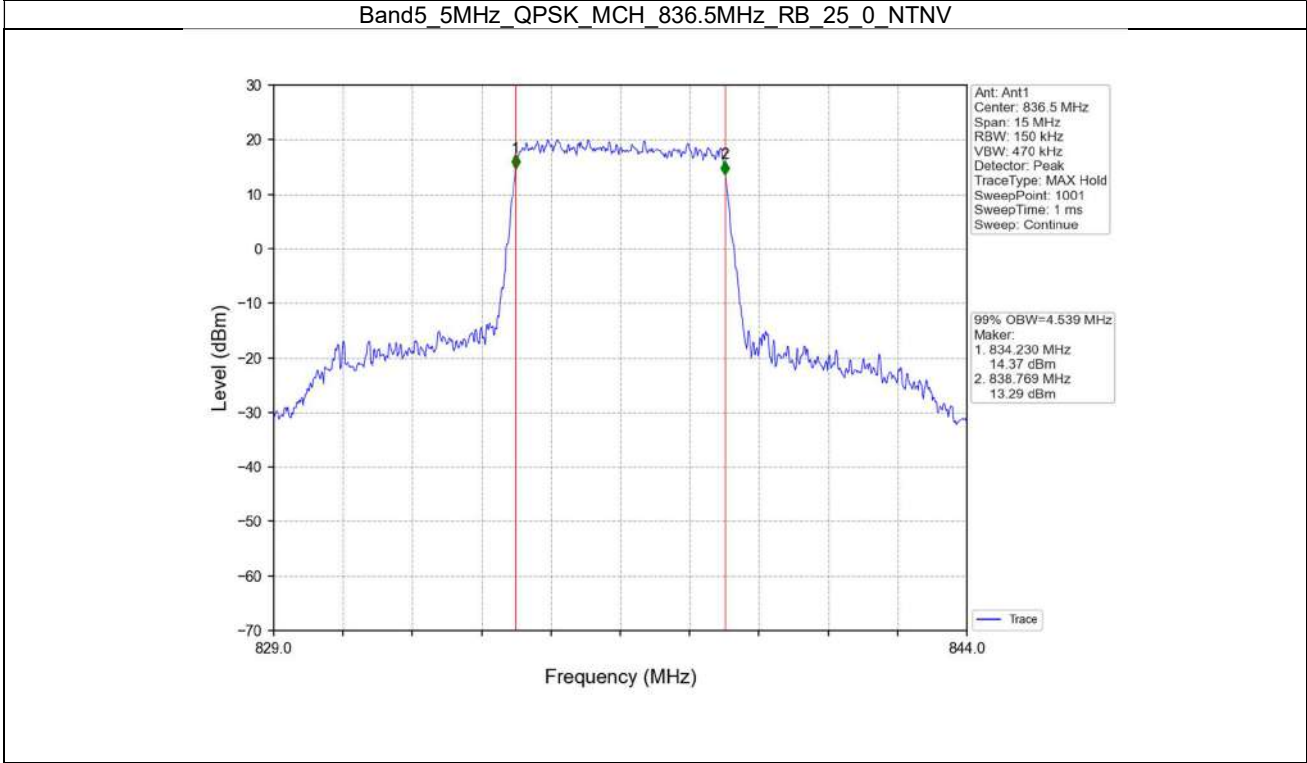


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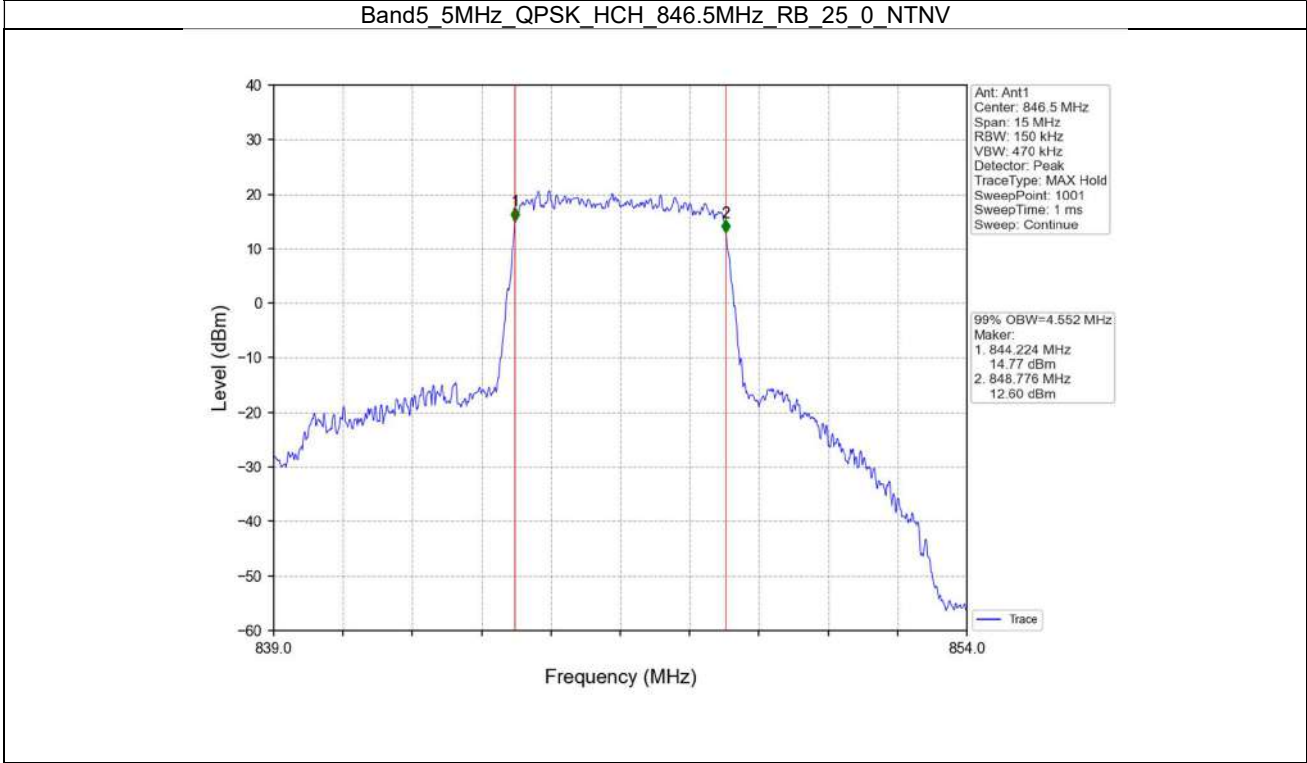


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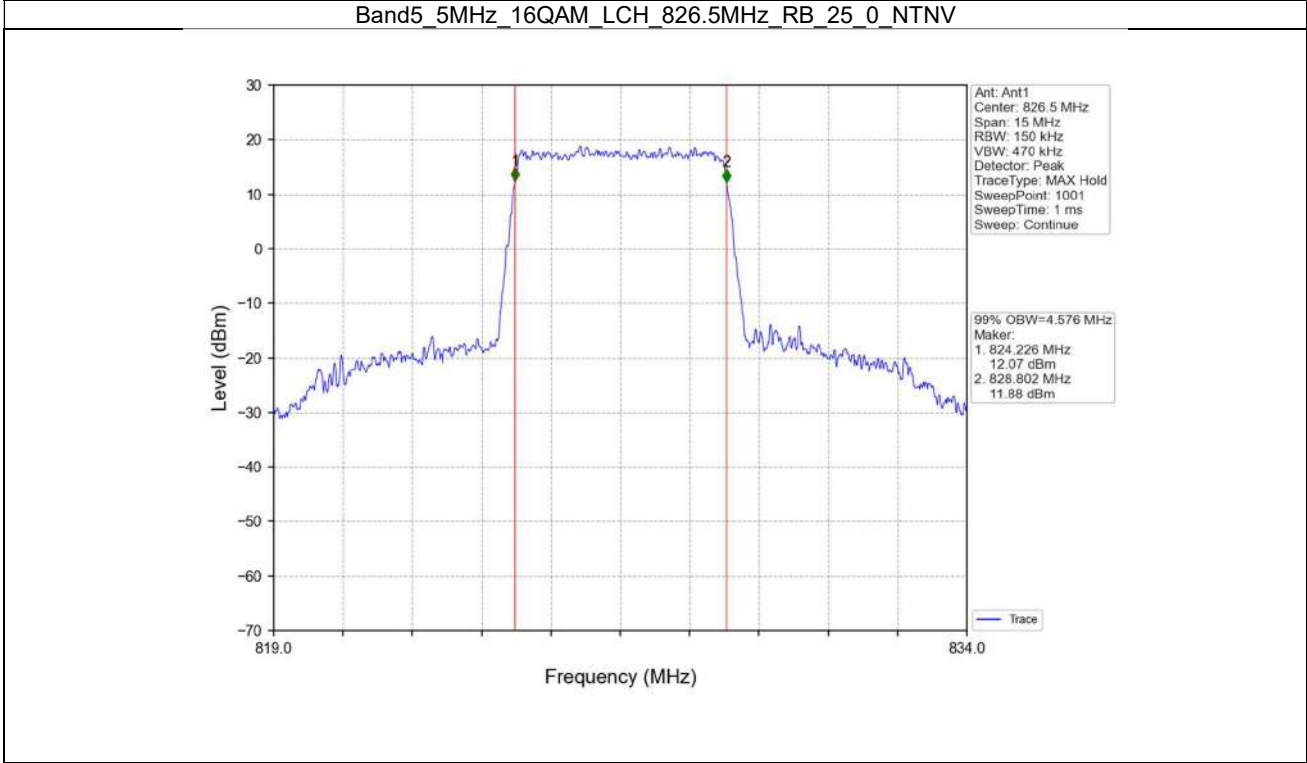
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Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



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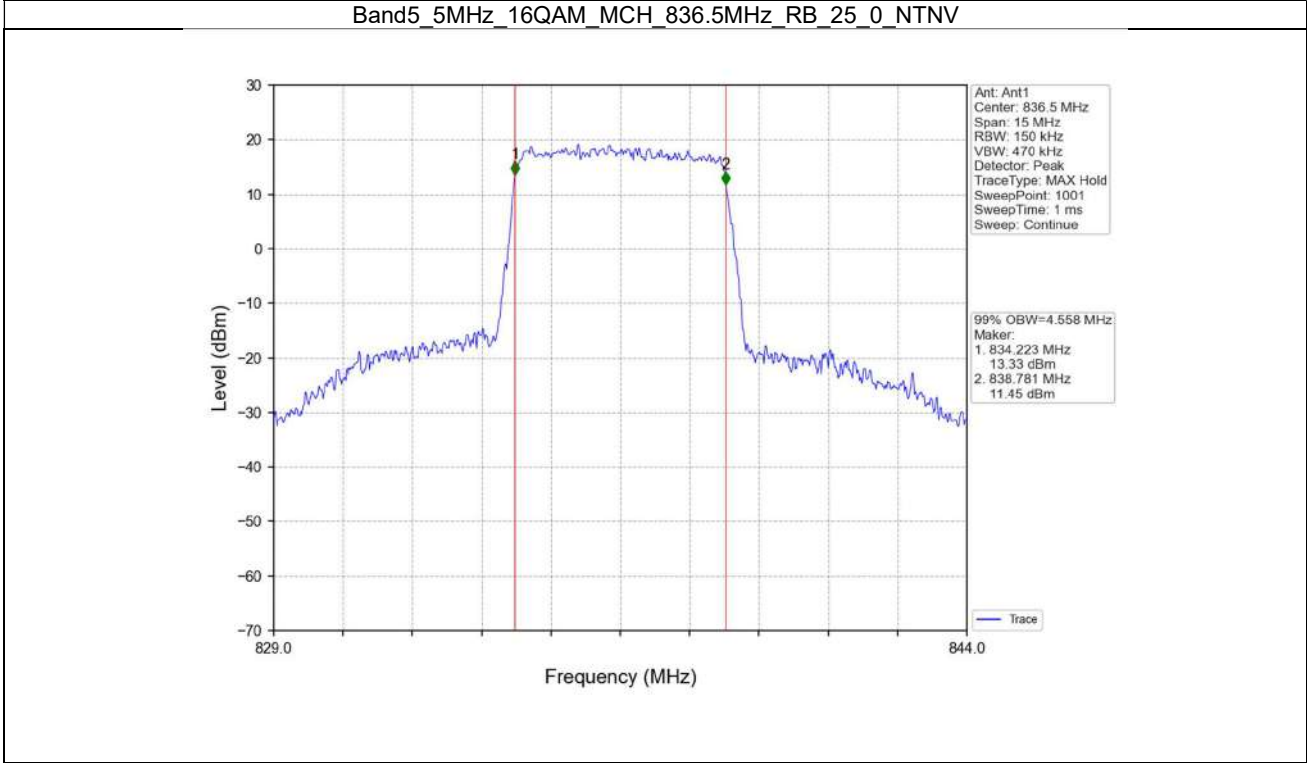
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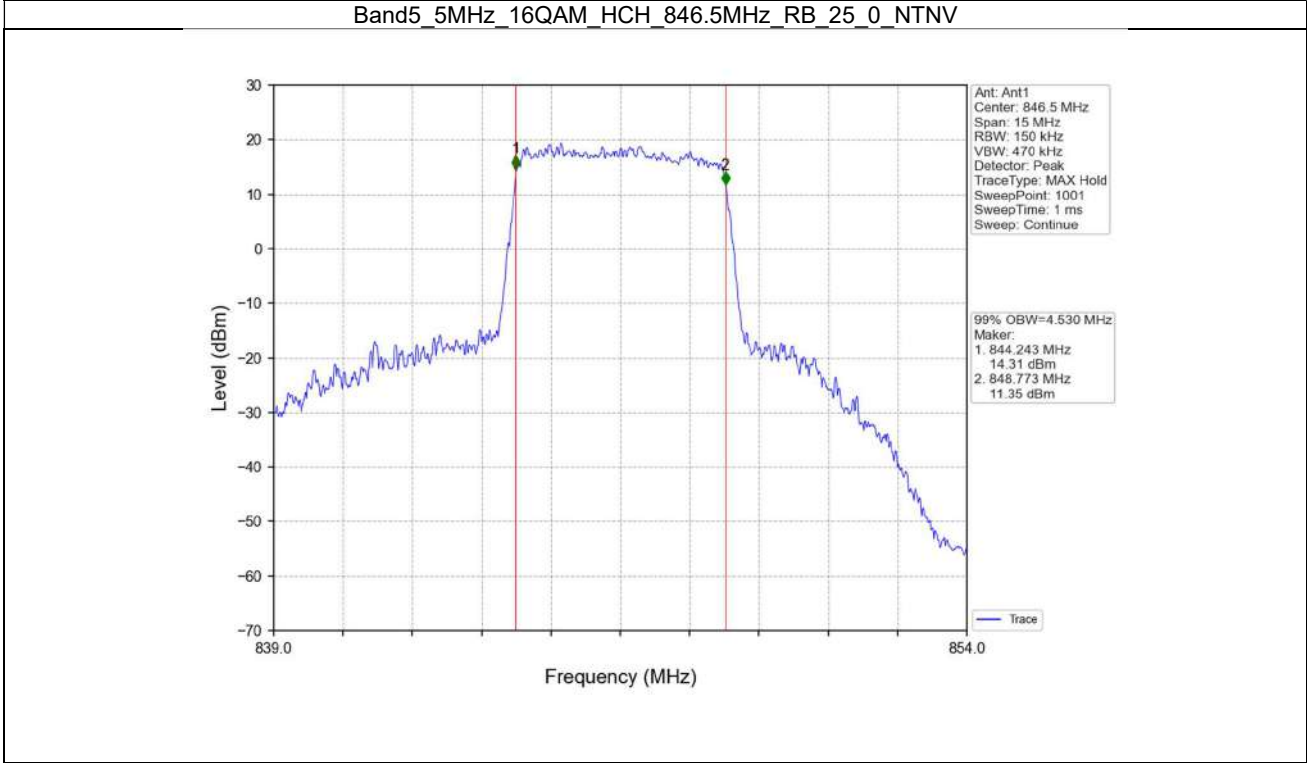
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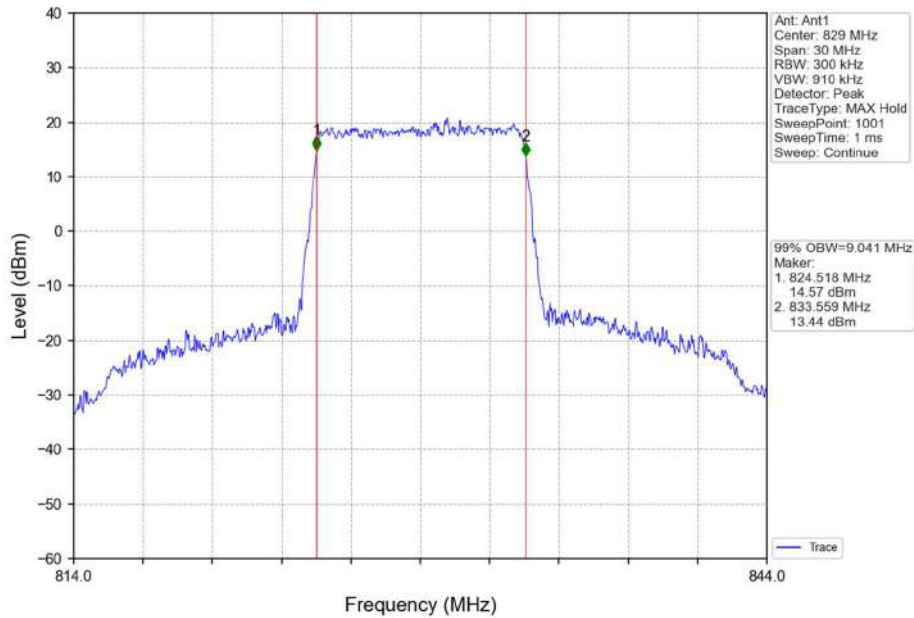


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Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



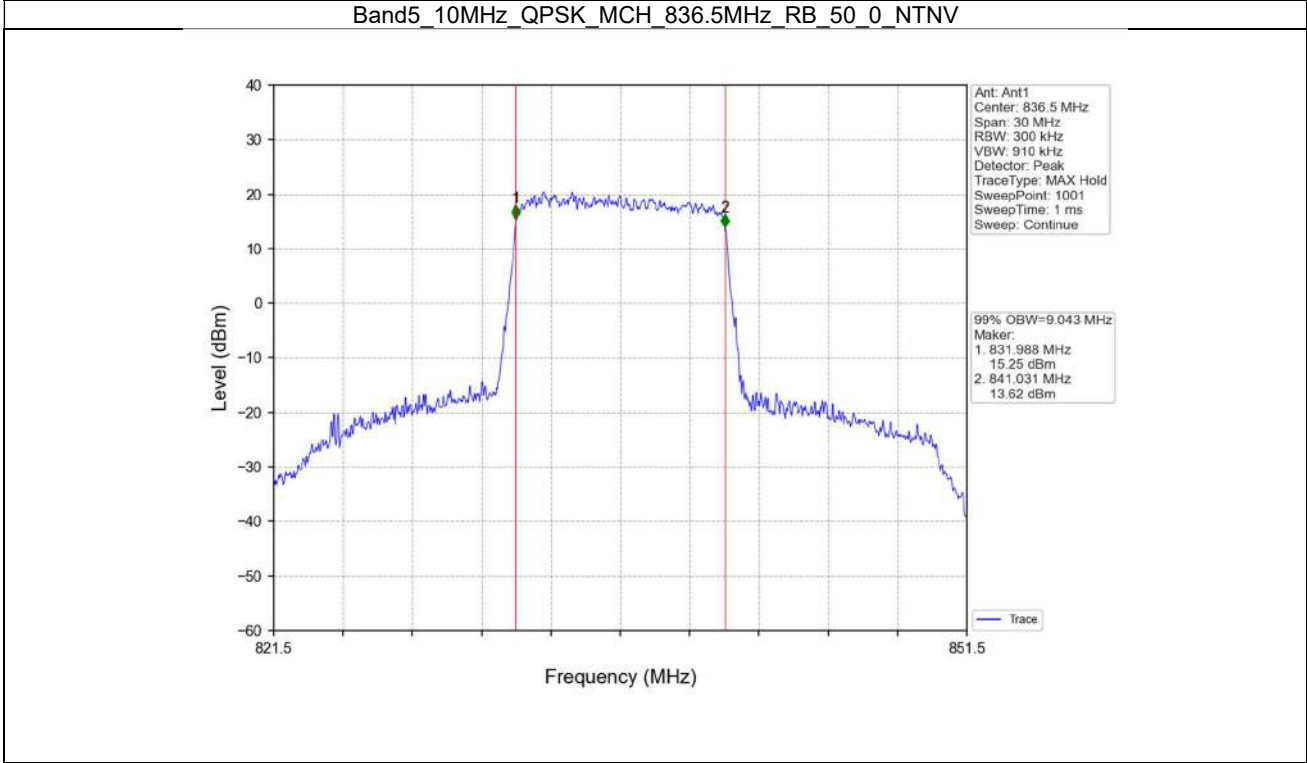
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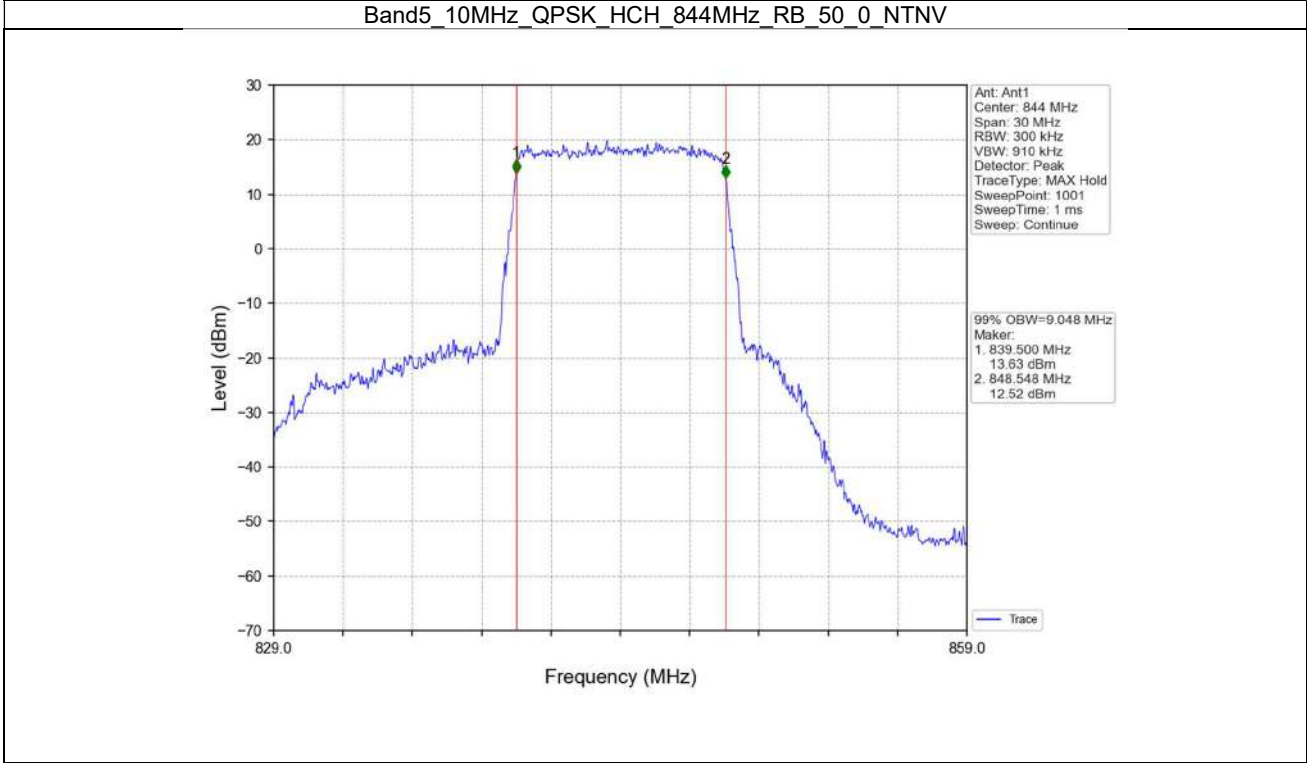
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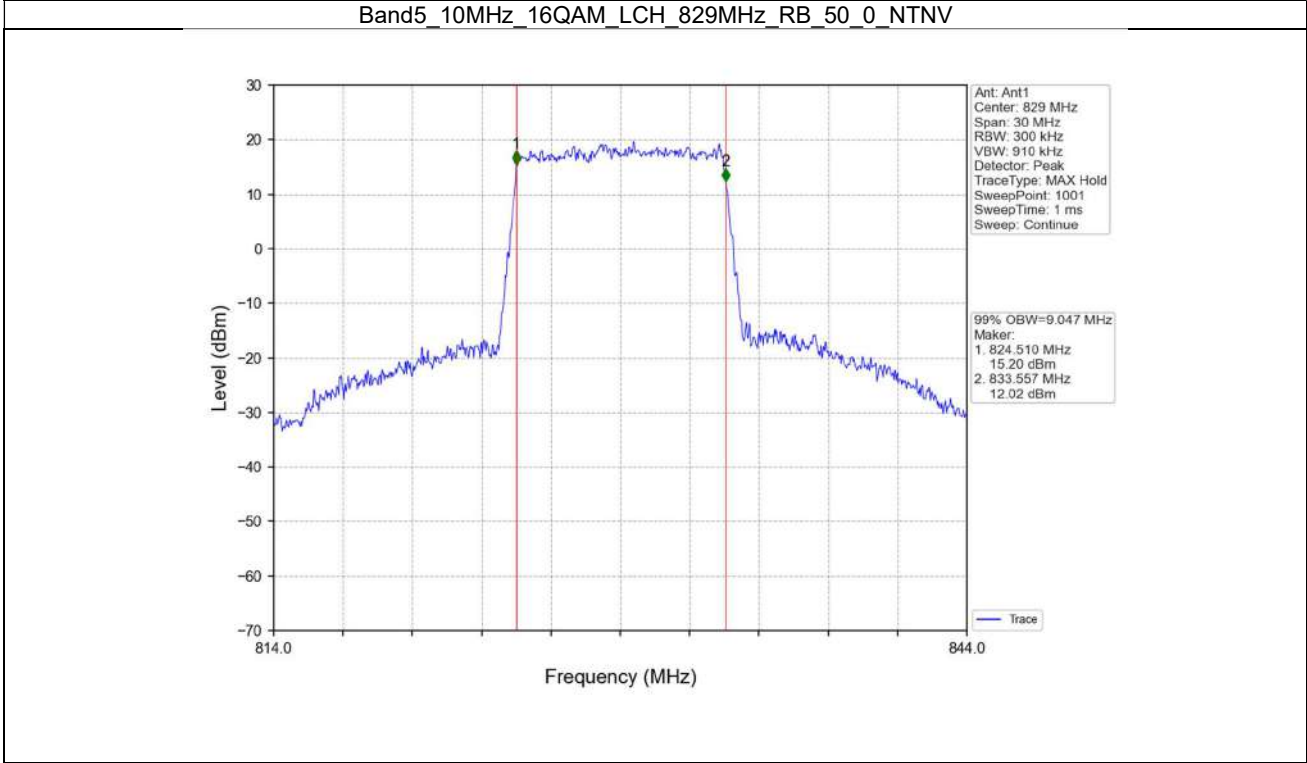
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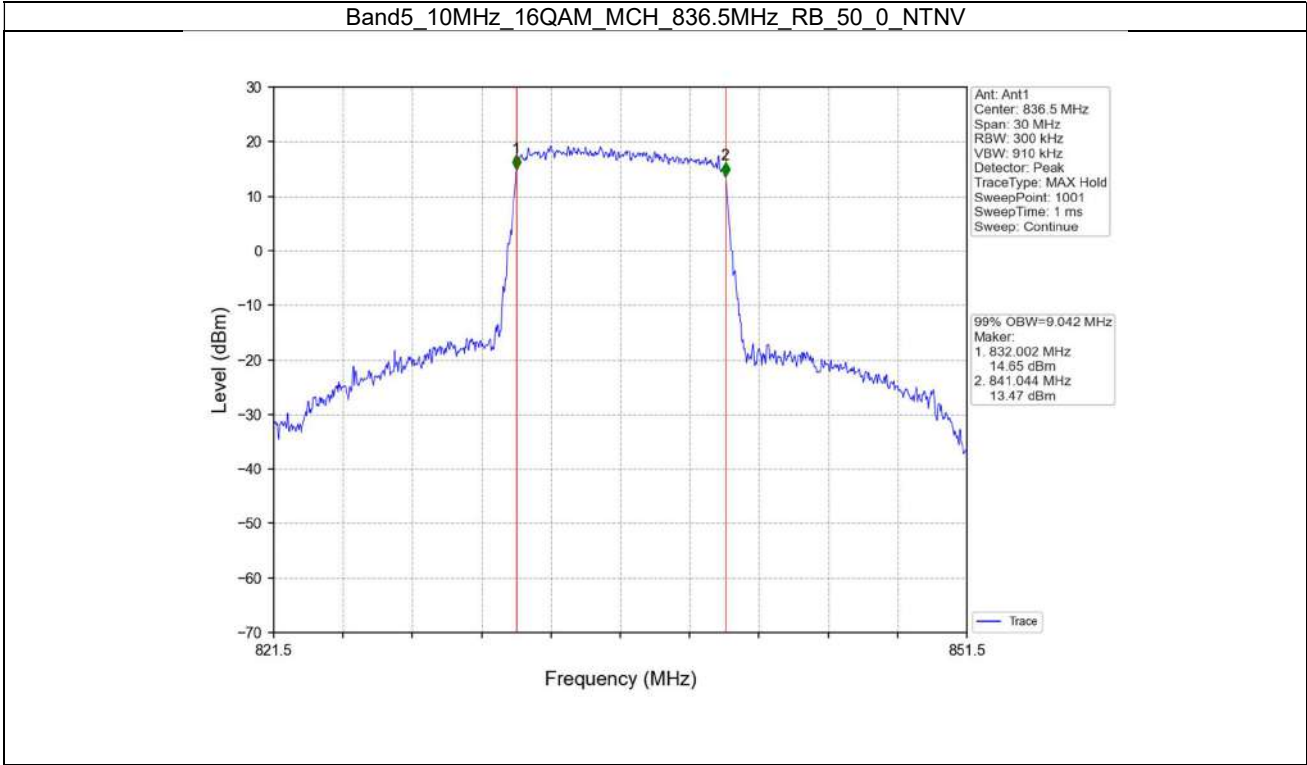
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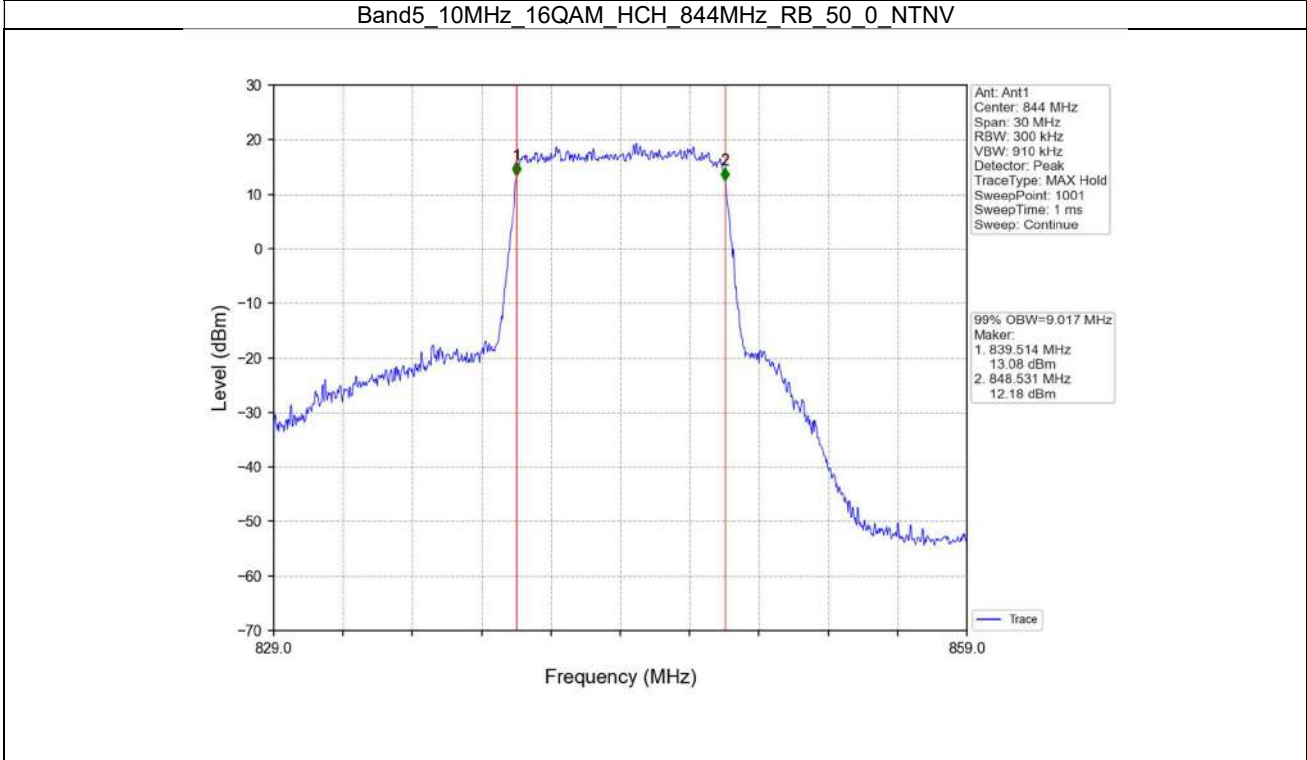
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Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



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4.2 Band5_XDB

4.2.1 Test Result

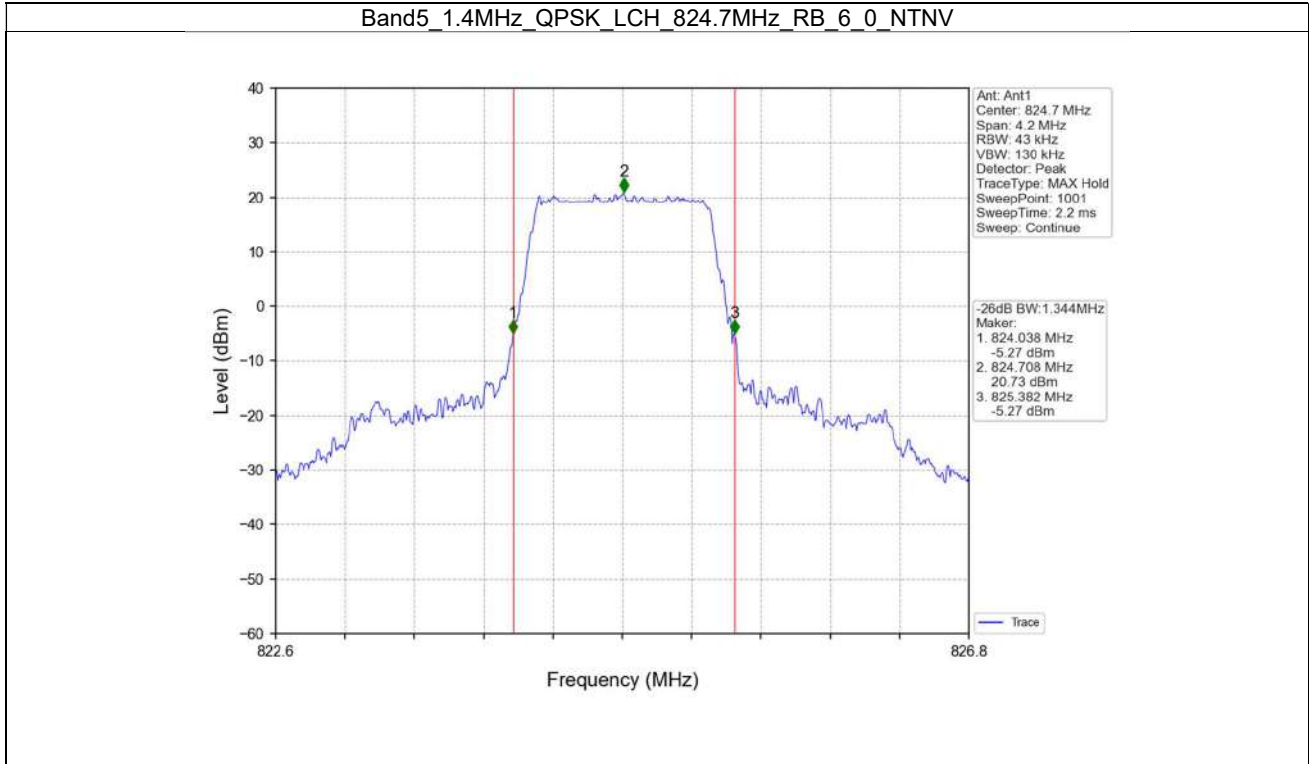
Band: 5 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	824.7	6	0	1.344	Pass
		836.5	6	0	1.322	Pass
		848.3	6	0	1.312	Pass
	16QAM	824.7	6	0	1.300	Pass
		836.5	6	0	1.316	Pass
		848.3	6	0	1.331	Pass
3	QPSK	825.5	15	0	3.060	Pass
		836.5	15	0	3.086	Pass
		847.5	15	0	3.051	Pass
	16QAM	825.5	15	0	3.049	Pass
		836.5	15	0	3.047	Pass
		847.5	15	0	3.053	Pass
5	QPSK	826.5	25	0	5.083	Pass
		836.5	25	0	5.060	Pass
		846.5	25	0	5.053	Pass
	16QAM	826.5	25	0	5.117	Pass
		836.5	25	0	5.108	Pass
		846.5	25	0	5.034	Pass
10	QPSK	829	50	0	10.085	Pass
		836.5	50	0	10.081	Pass
		844	50	0	10.163	Pass
	16QAM	829	50	0	10.064	Pass
		836.5	50	0	10.089	Pass
		844	50	0	9.945	Pass



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4.2.2 Test Graph

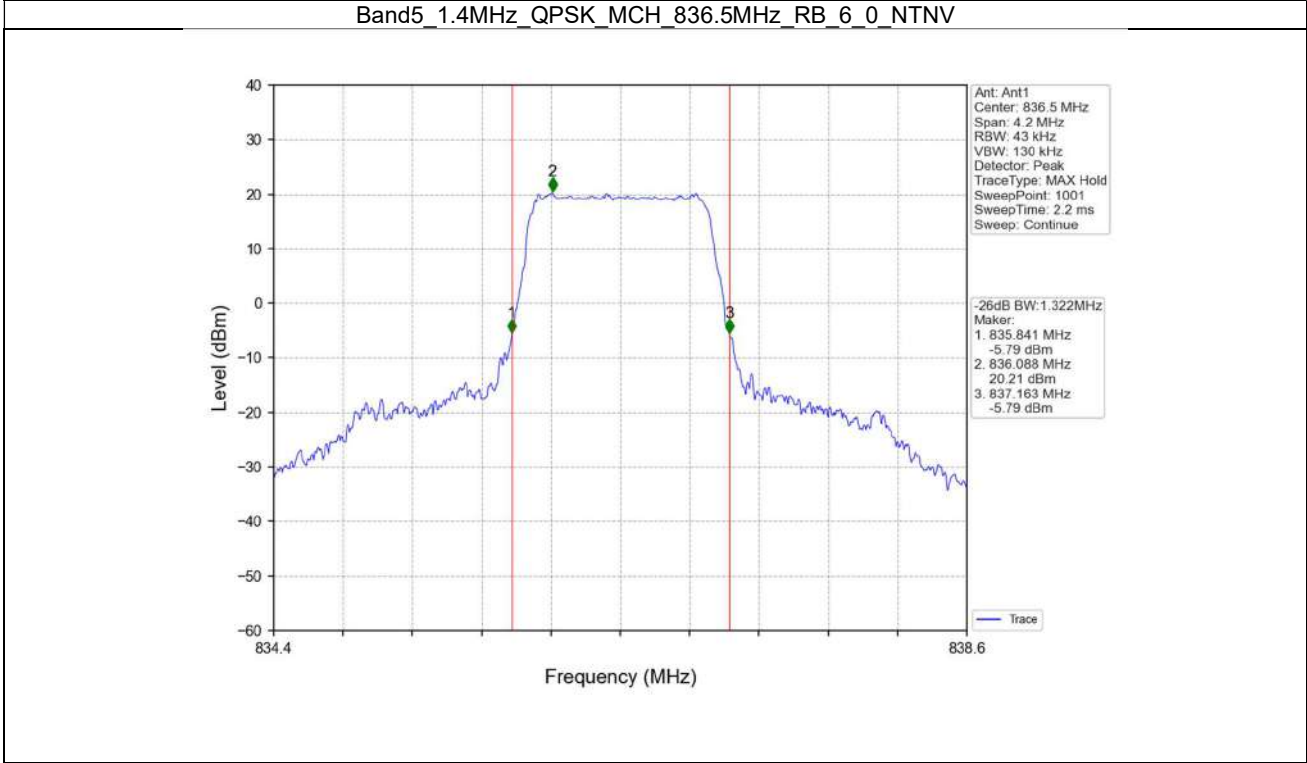


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Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



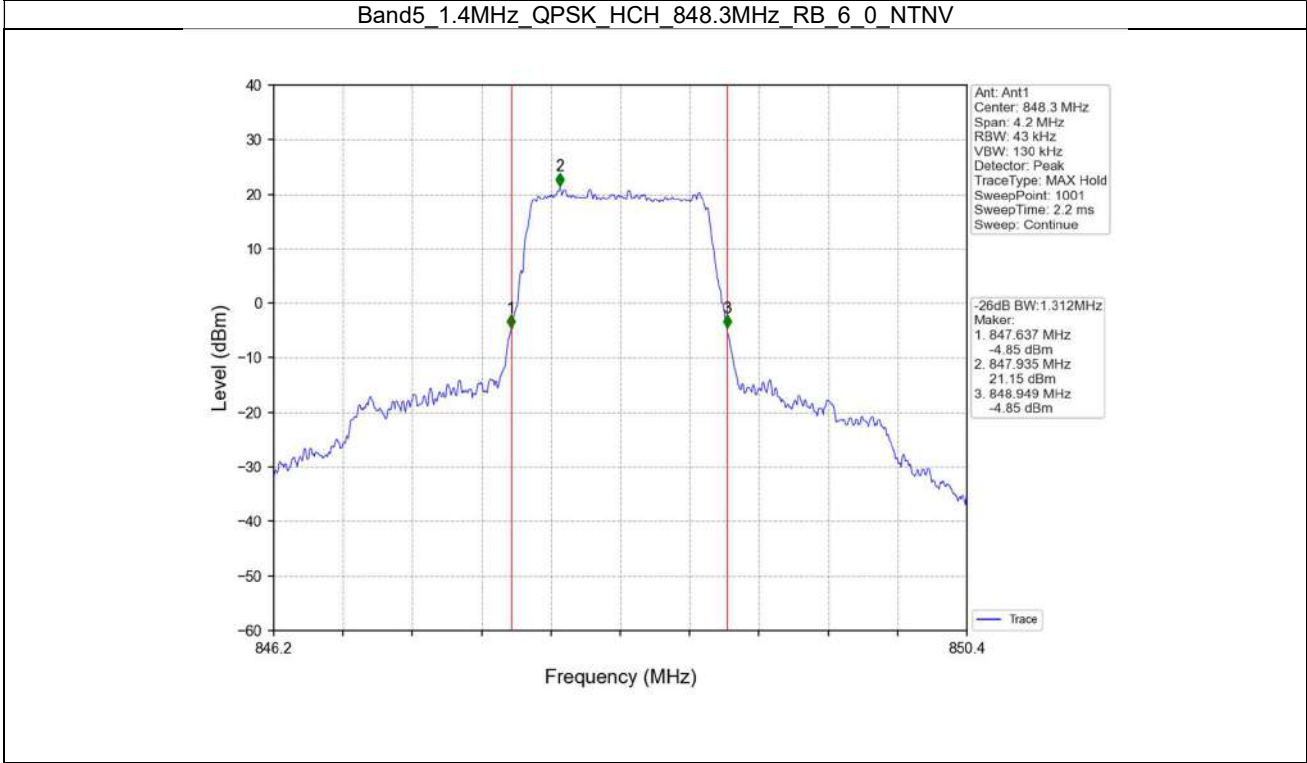
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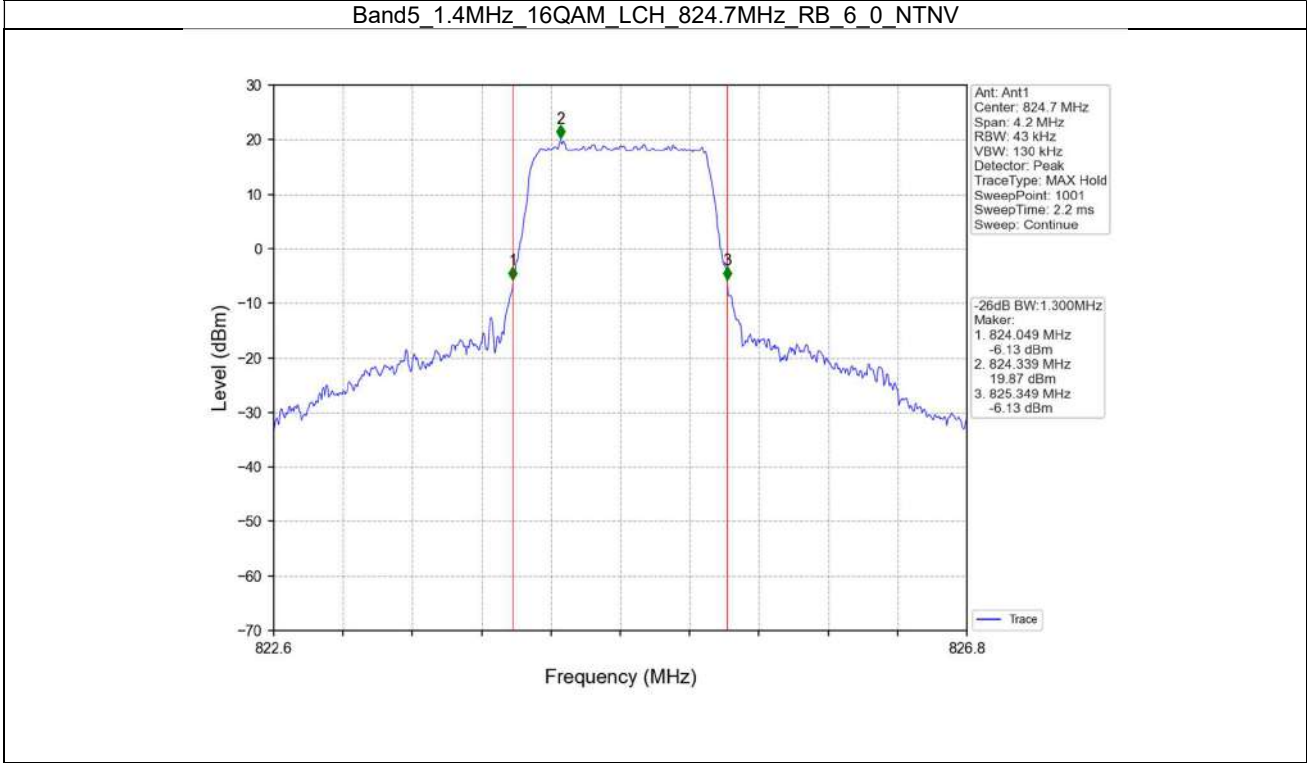


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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

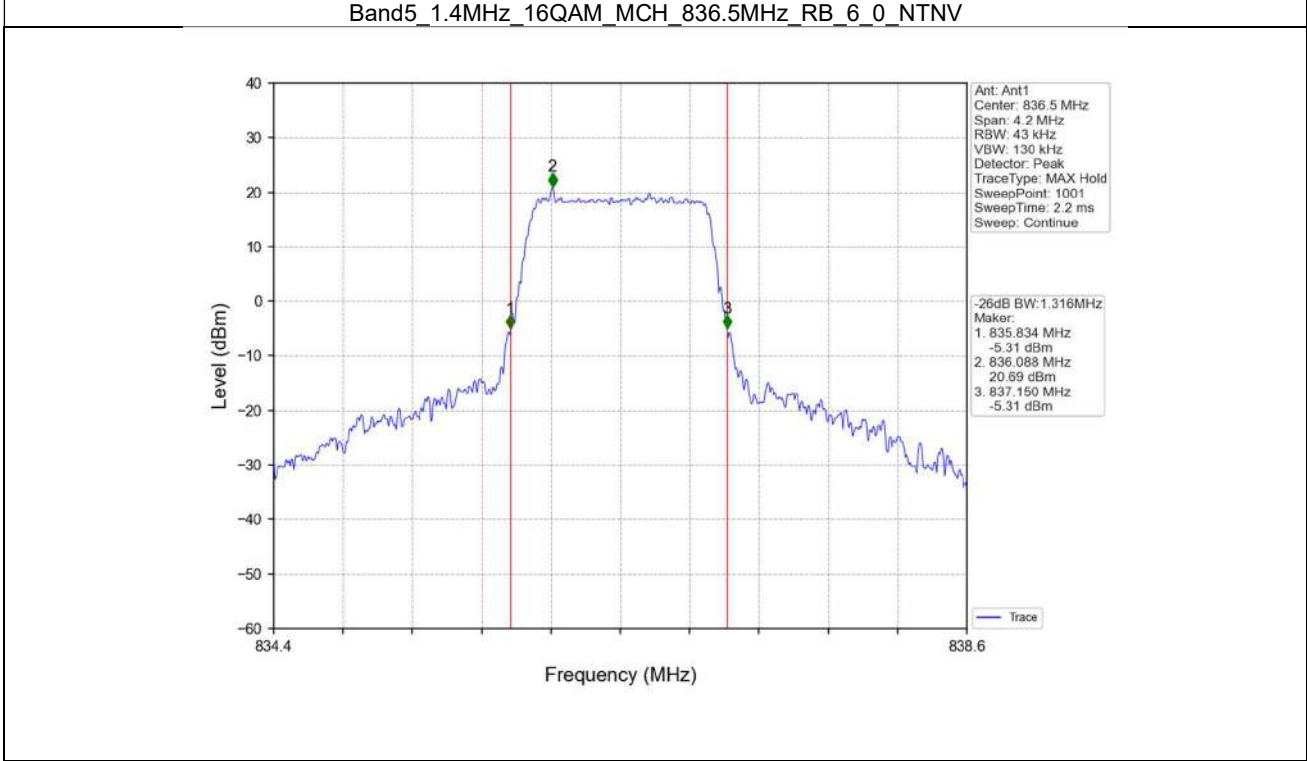


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Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

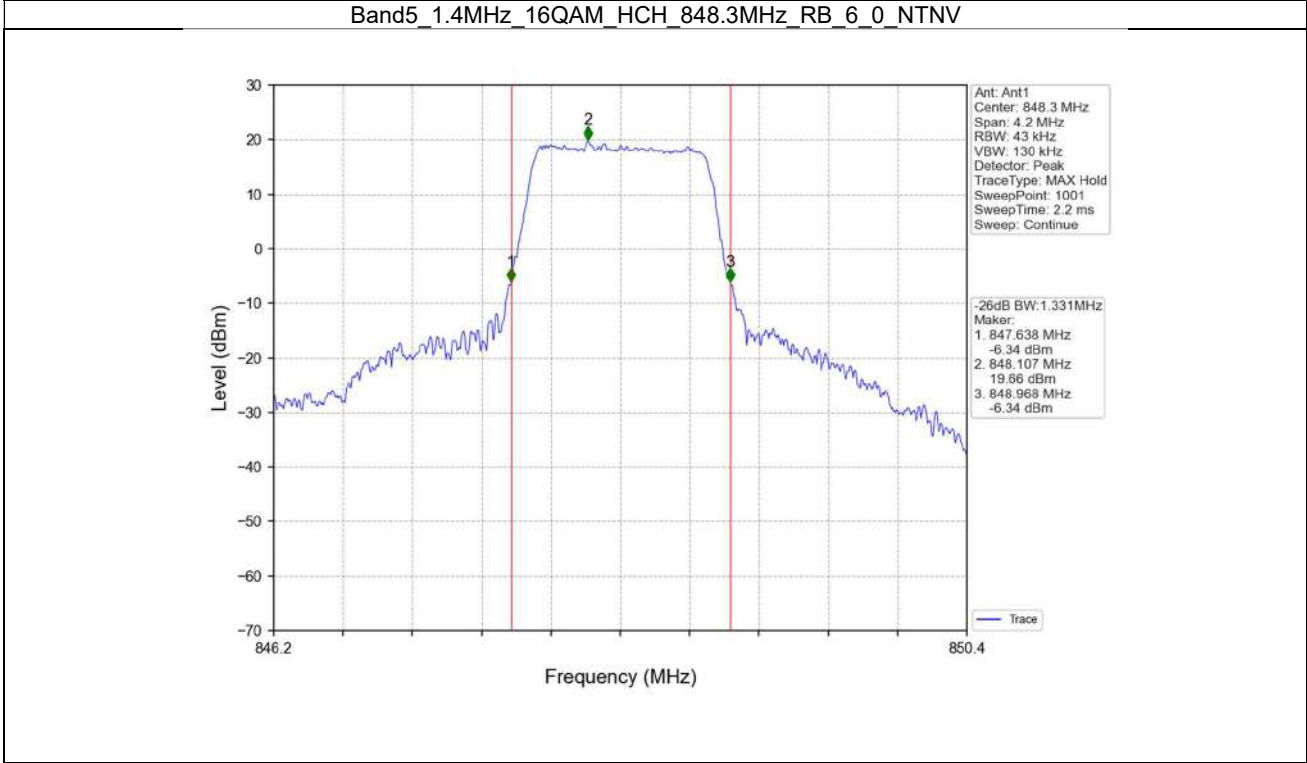


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Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



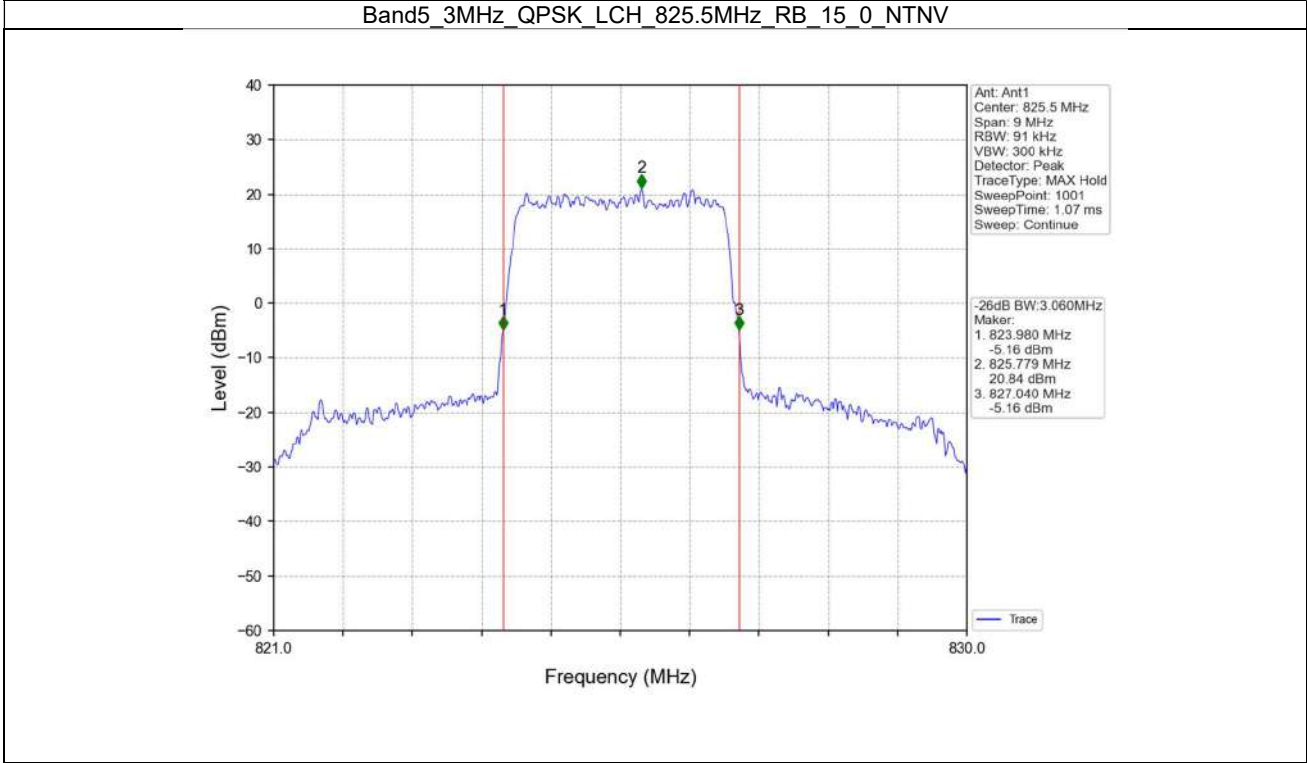
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Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

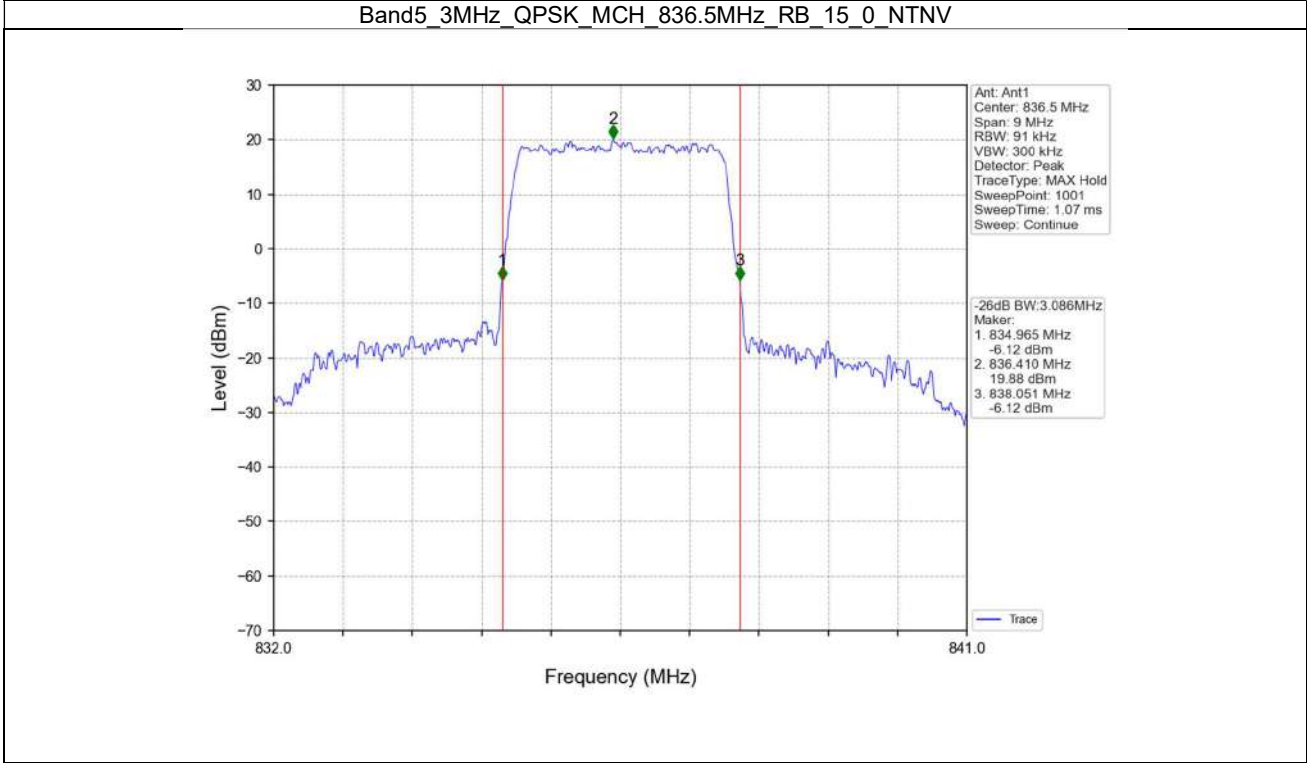


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Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



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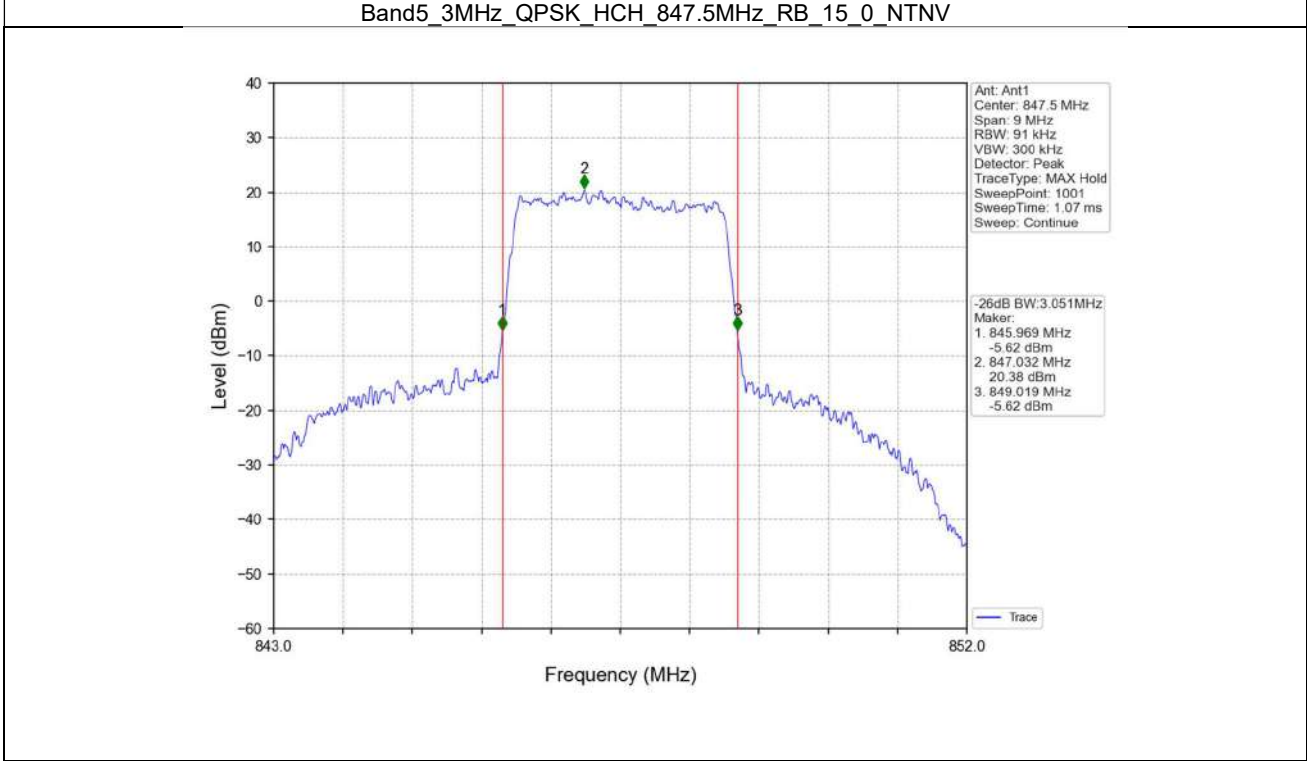
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



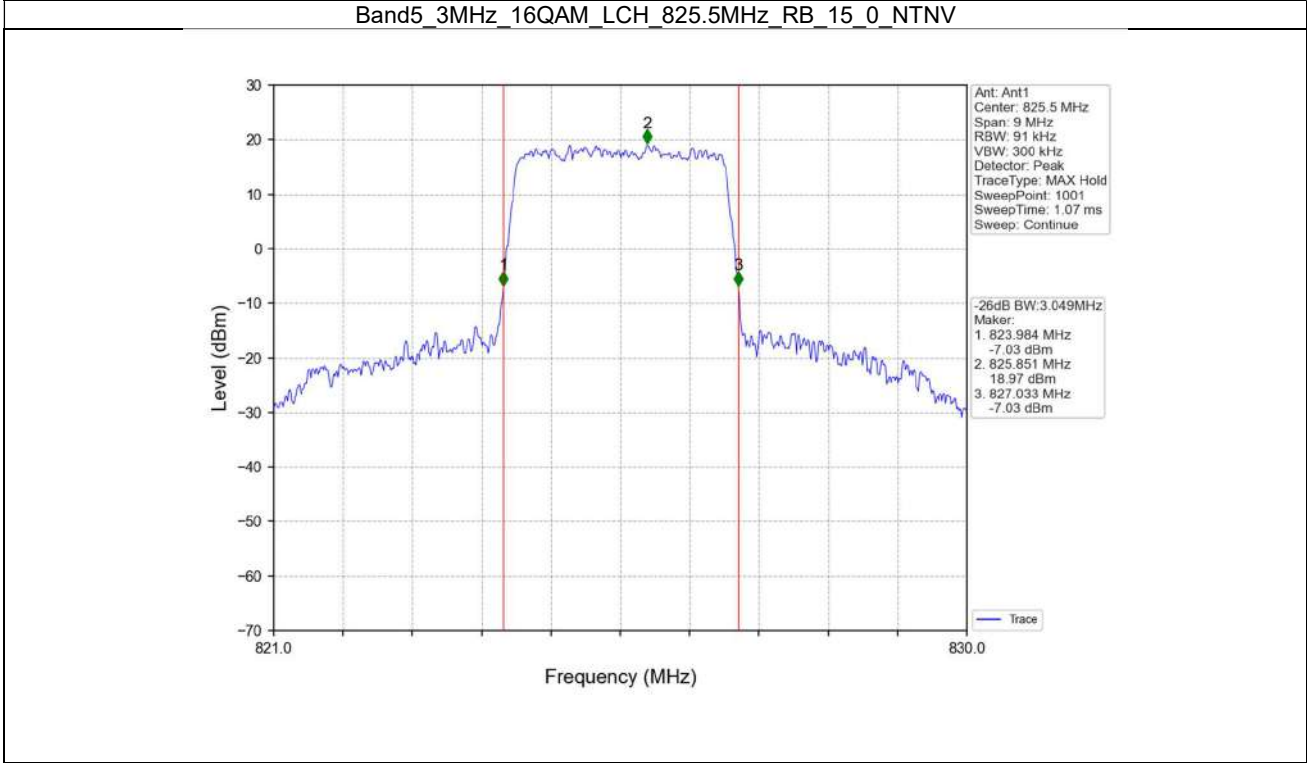
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



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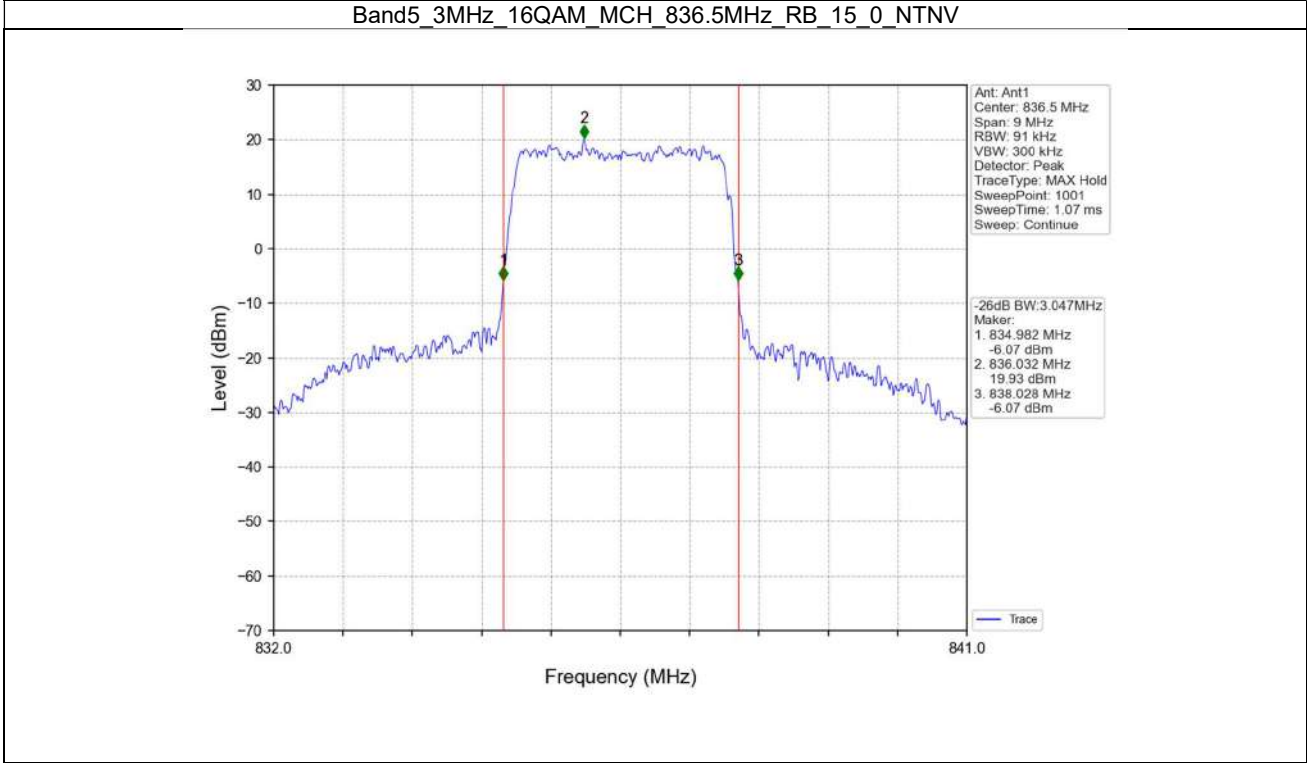
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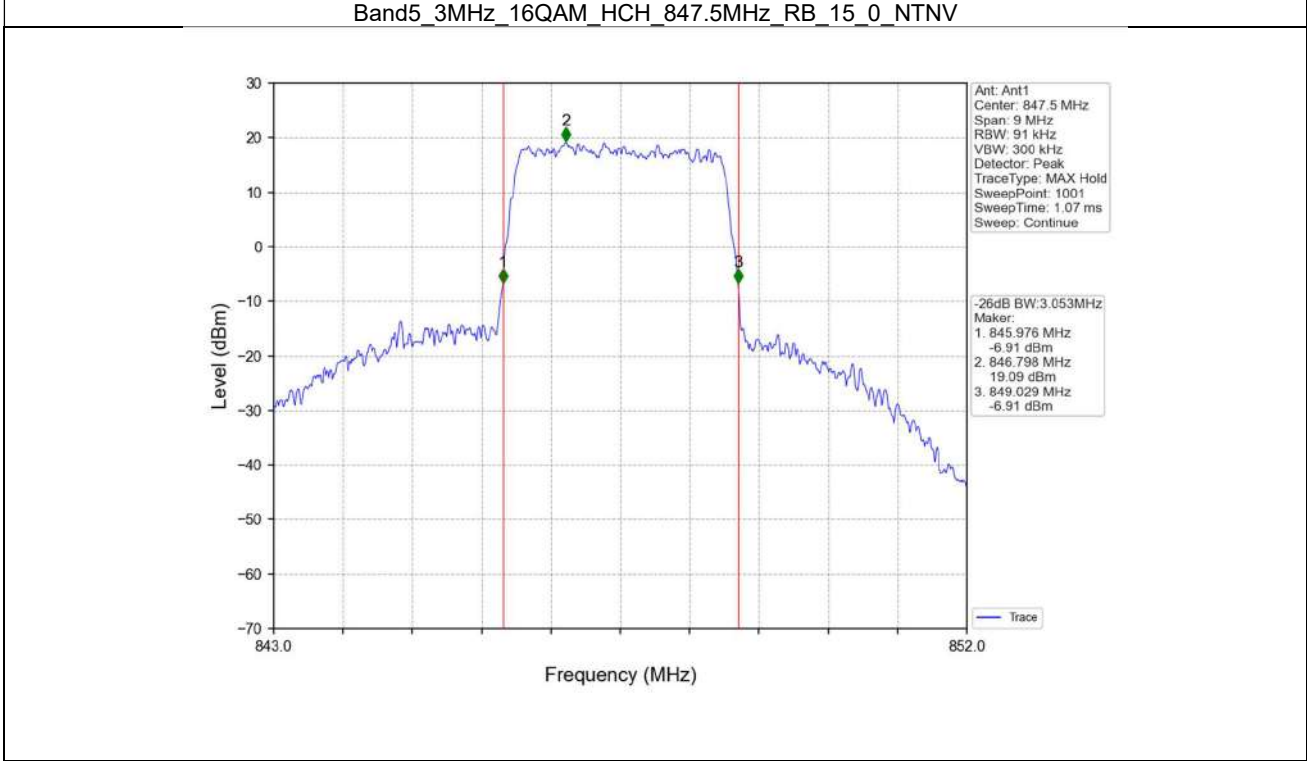
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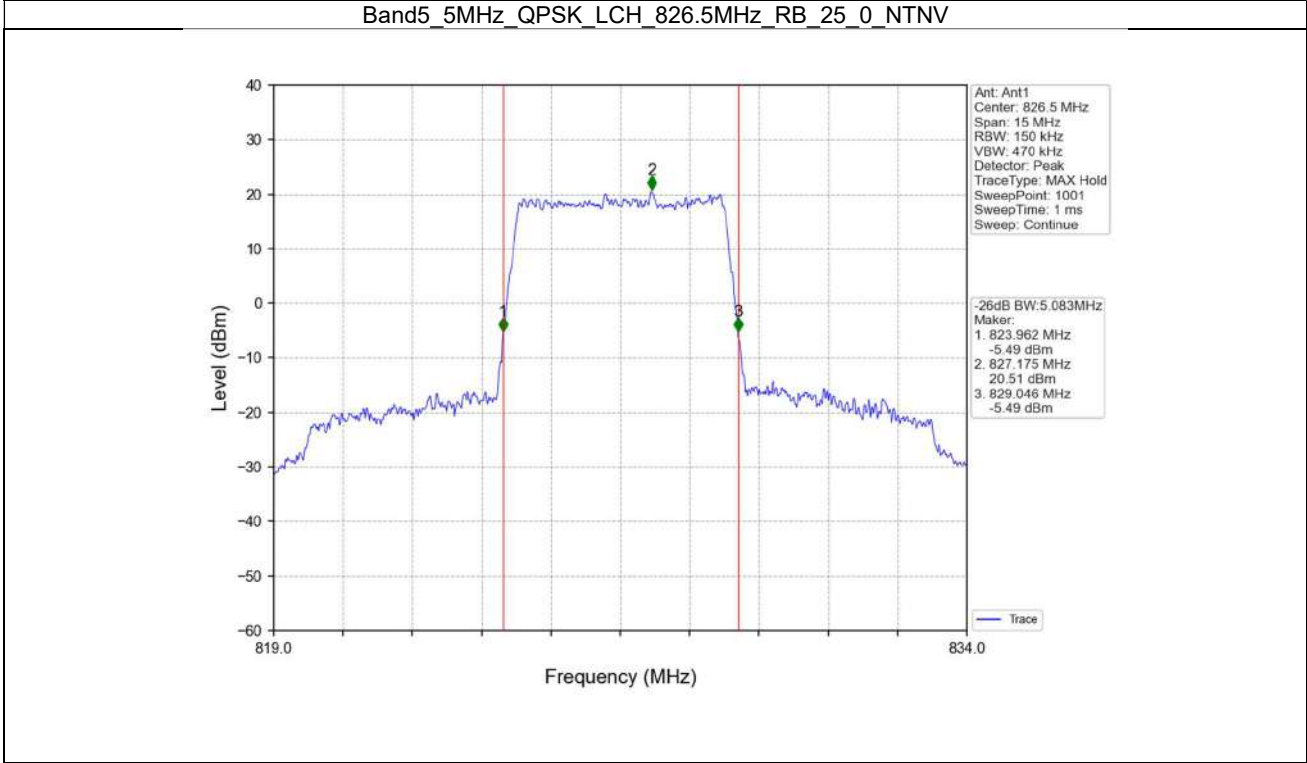


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Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



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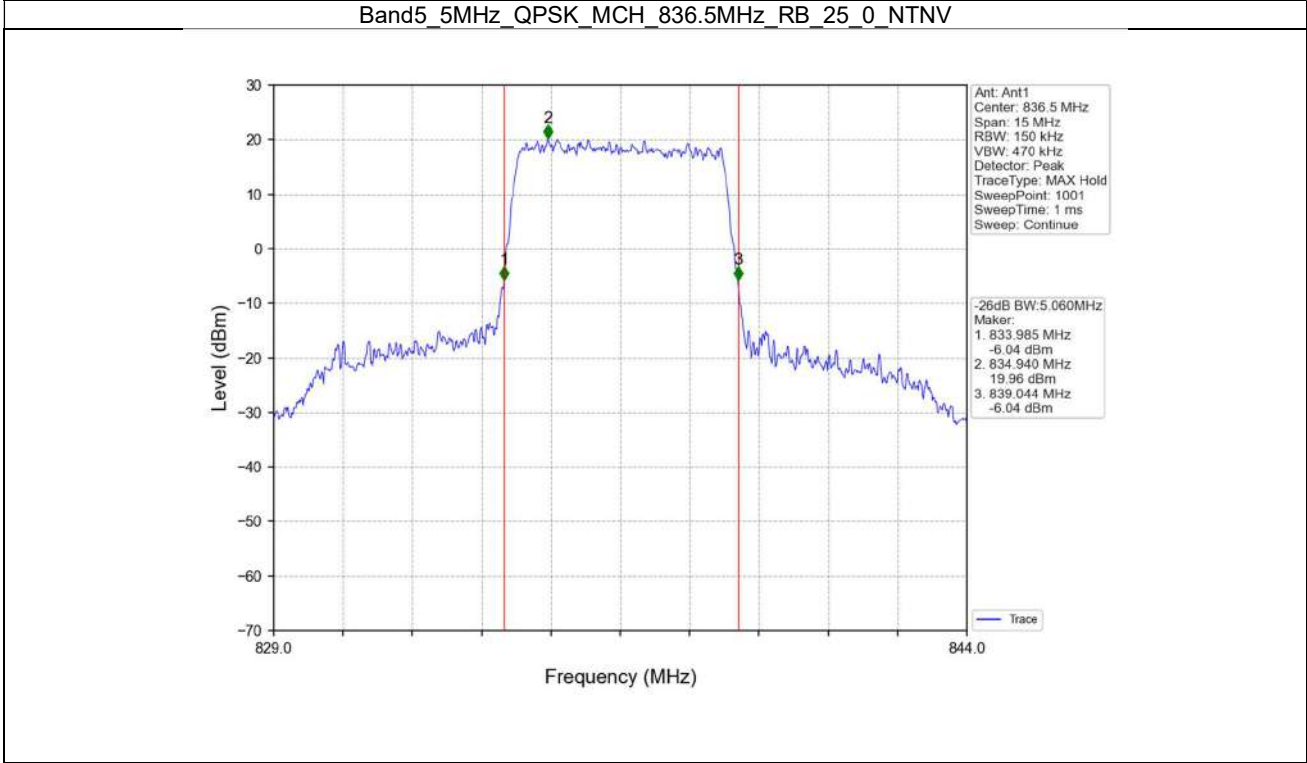
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Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV

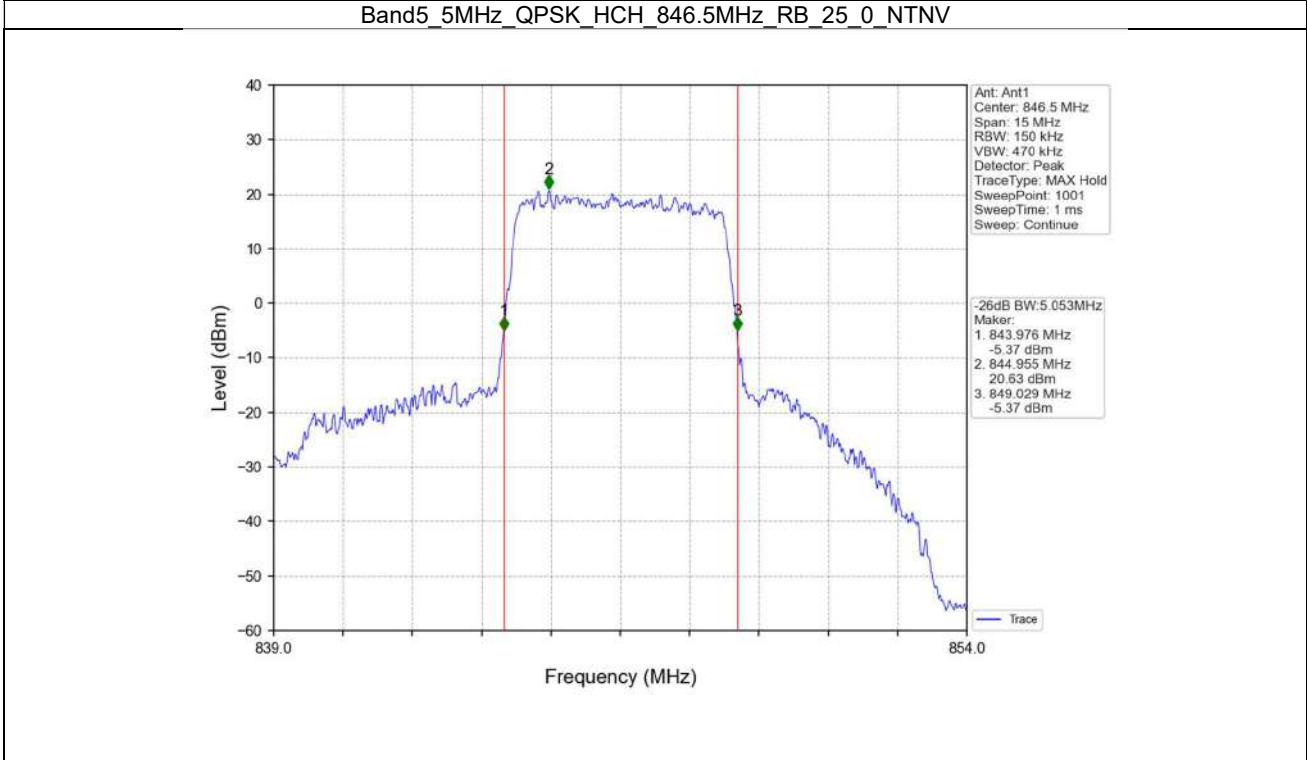


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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



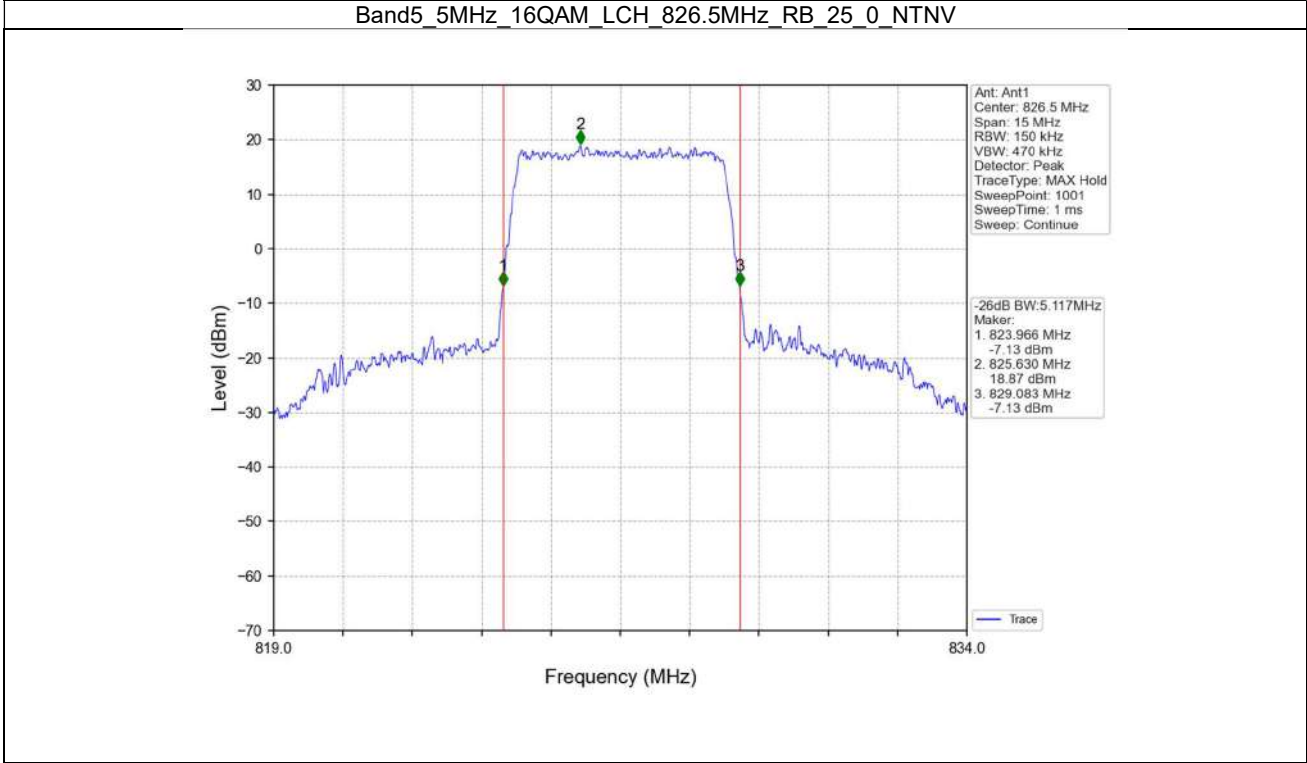
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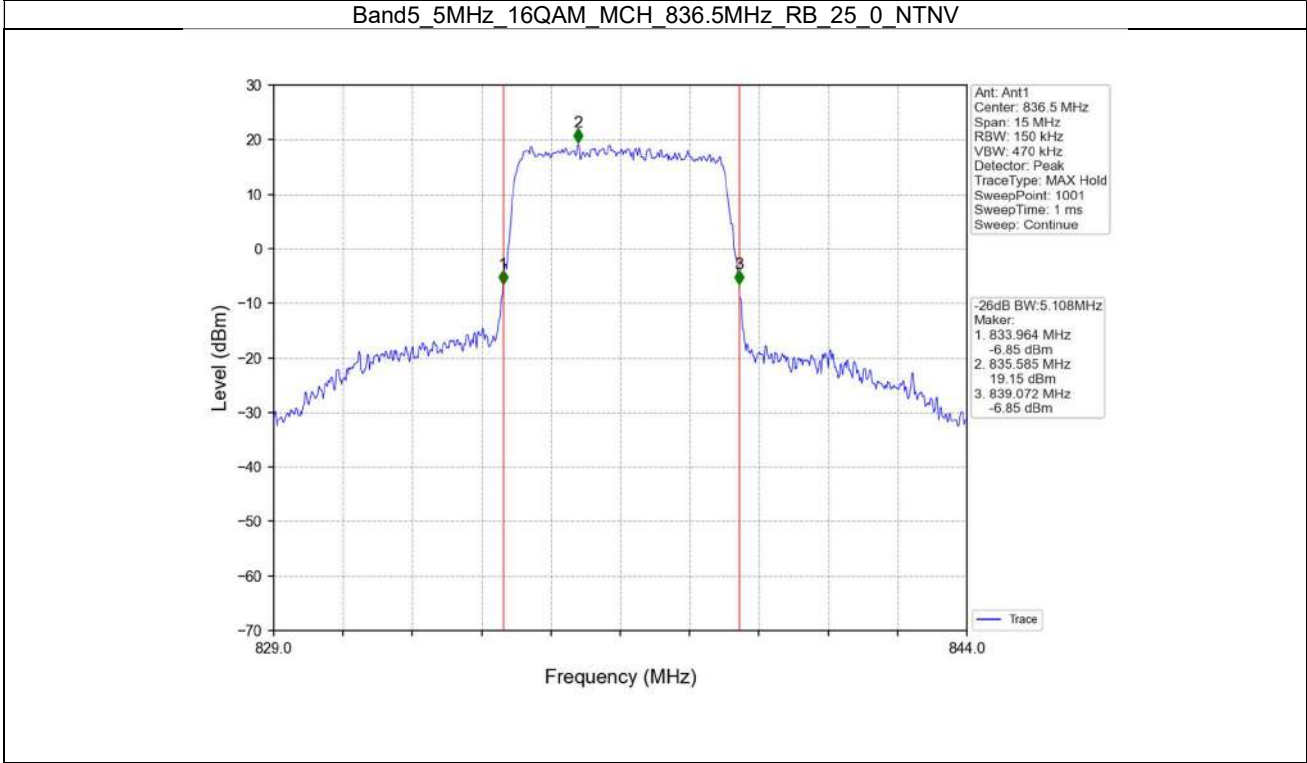


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Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



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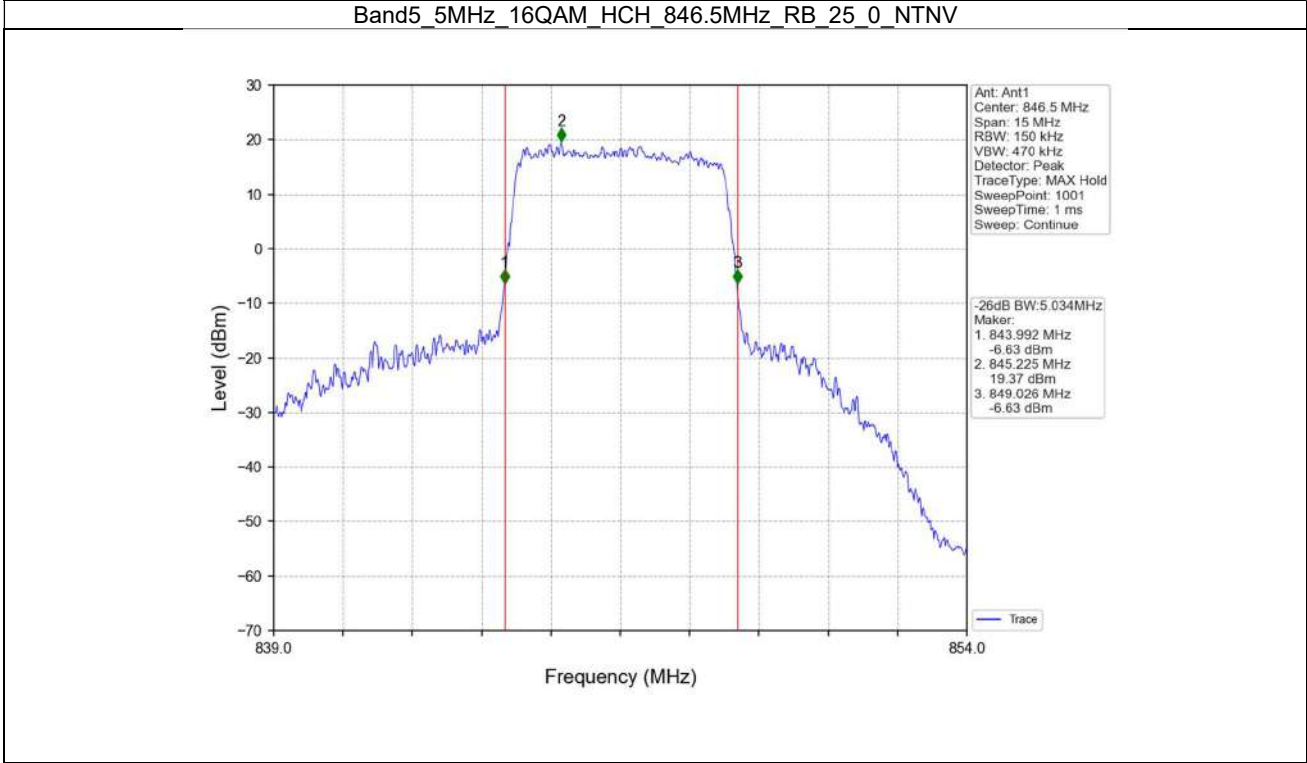
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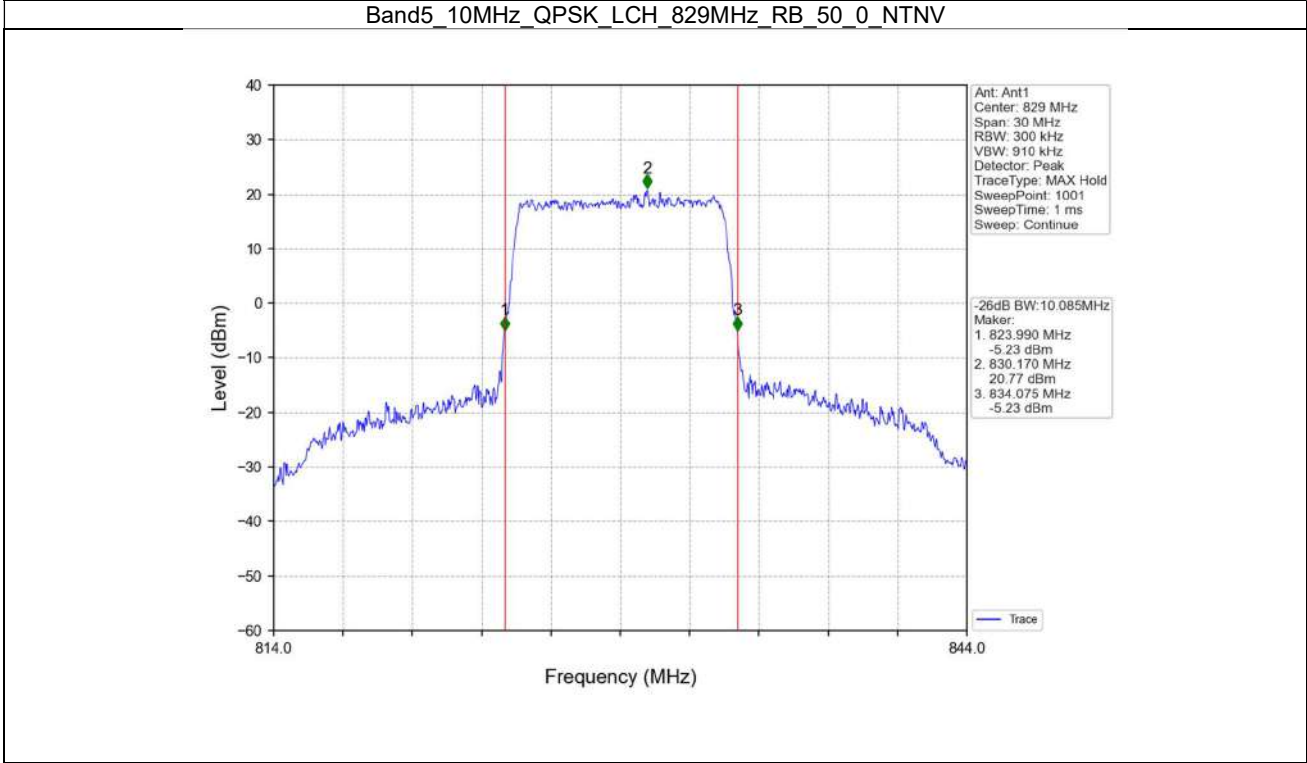
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Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



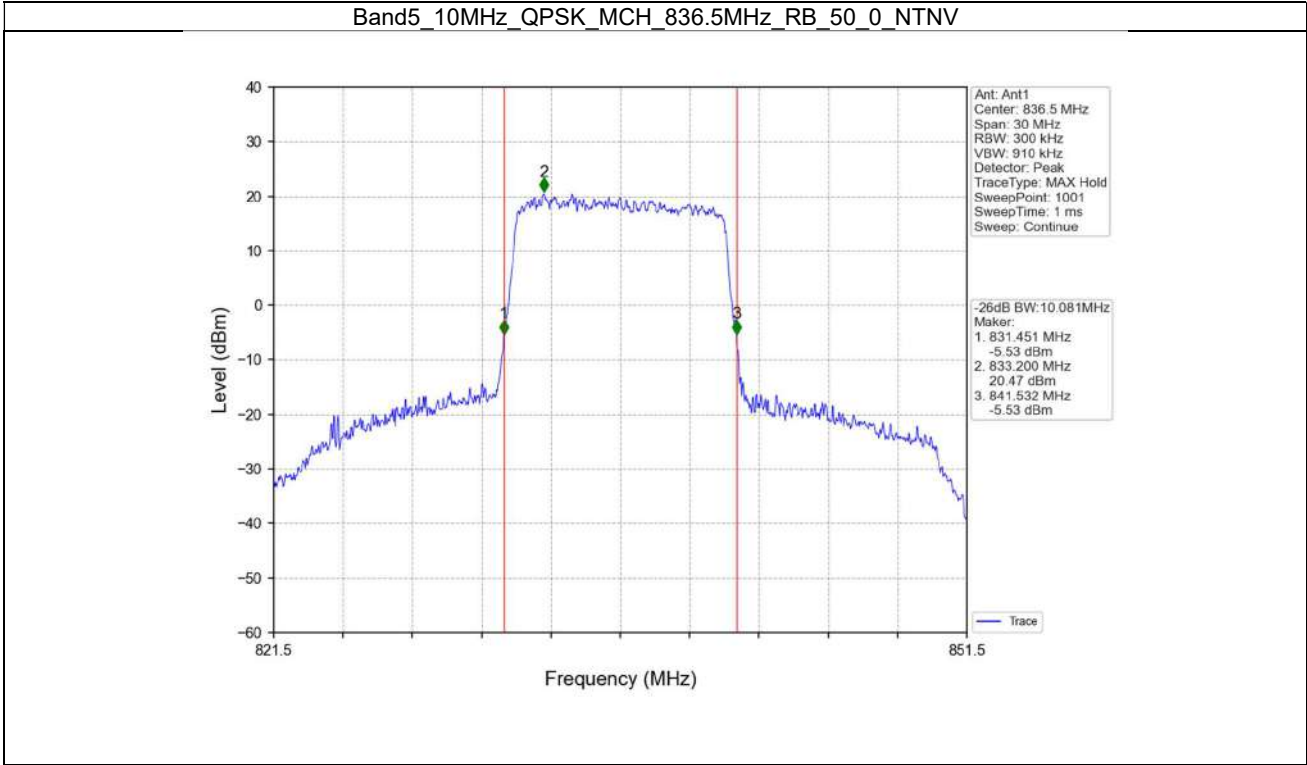
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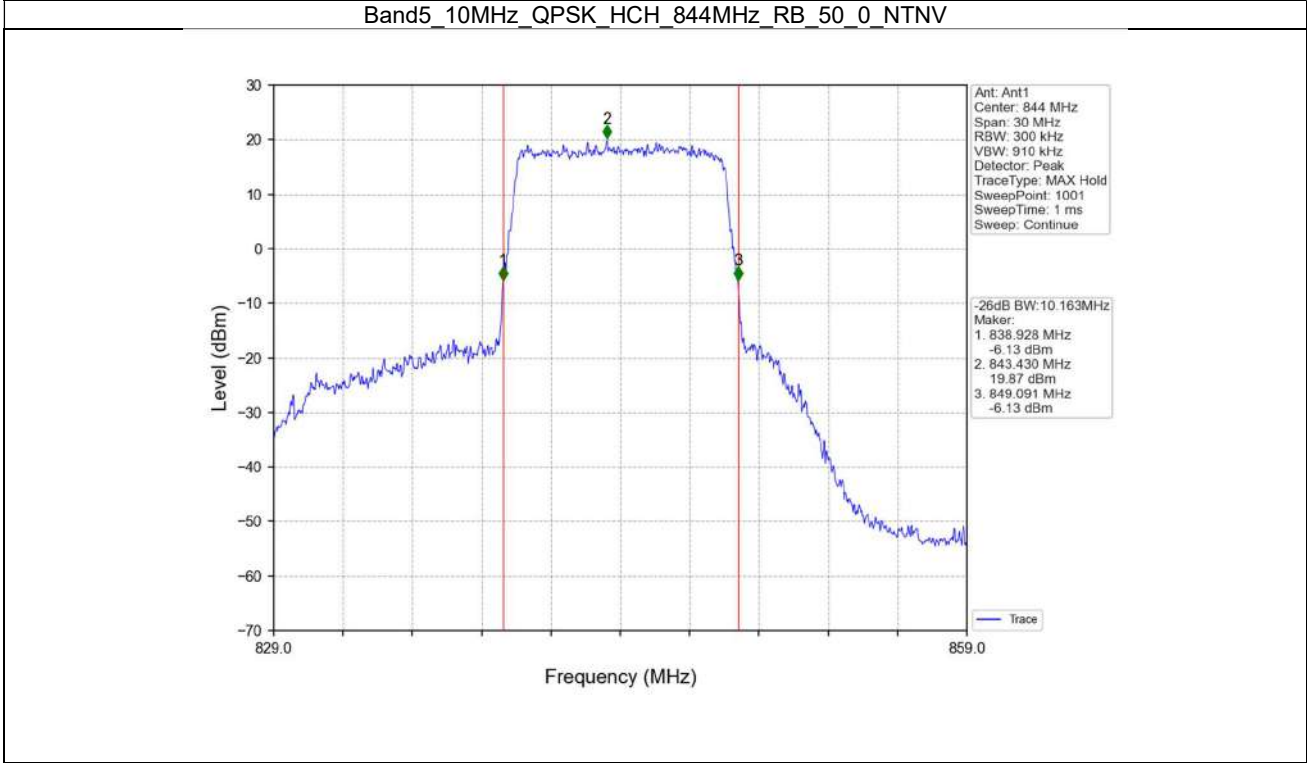


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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



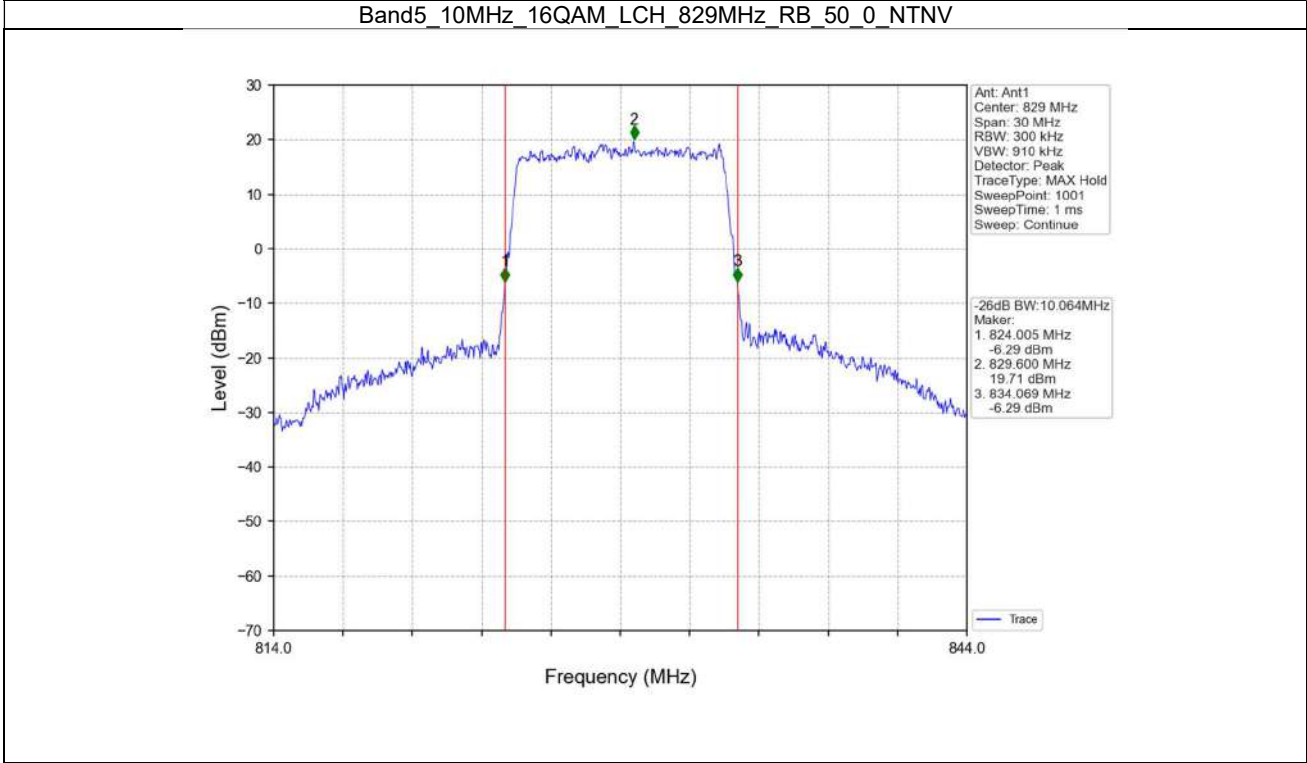
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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



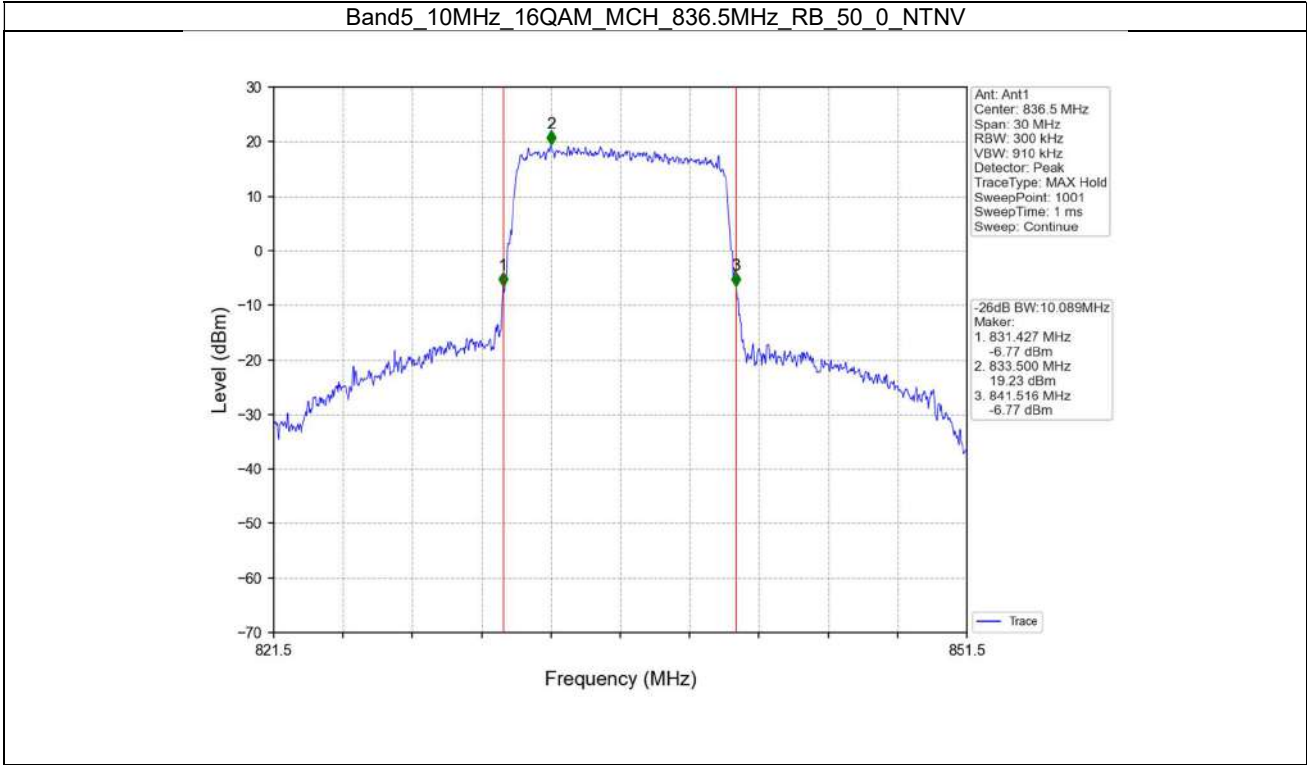
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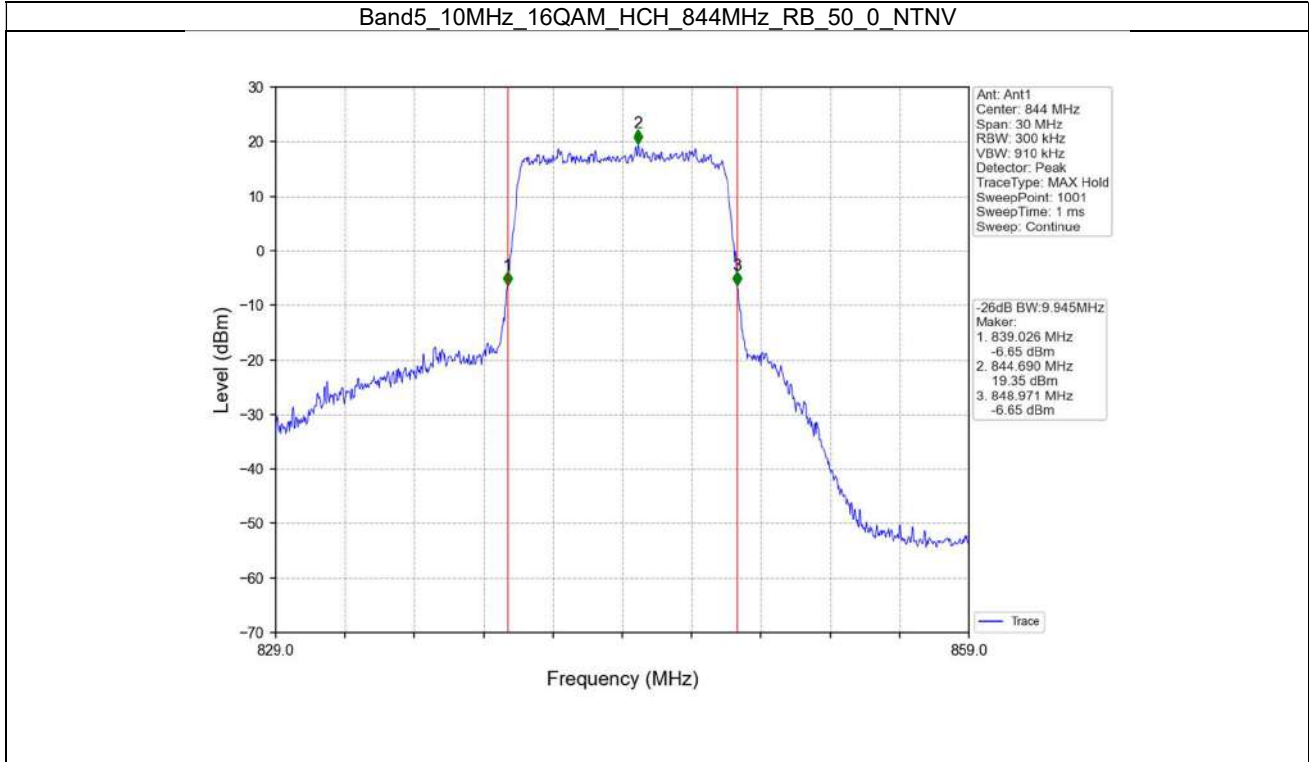
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5. Peak-Average Ratio

5.1 B5_1.4MHz

5.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	4.96	<=13	Pass
	836.5	6	0	4.98	<=13	Pass
	848.3	6	0	4.77	<=13	Pass
16QAM	824.7	6	0	5.85	<=13	Pass
	836.5	6	0	5.82	<=13	Pass
	848.3	6	0	5.67	<=13	Pass



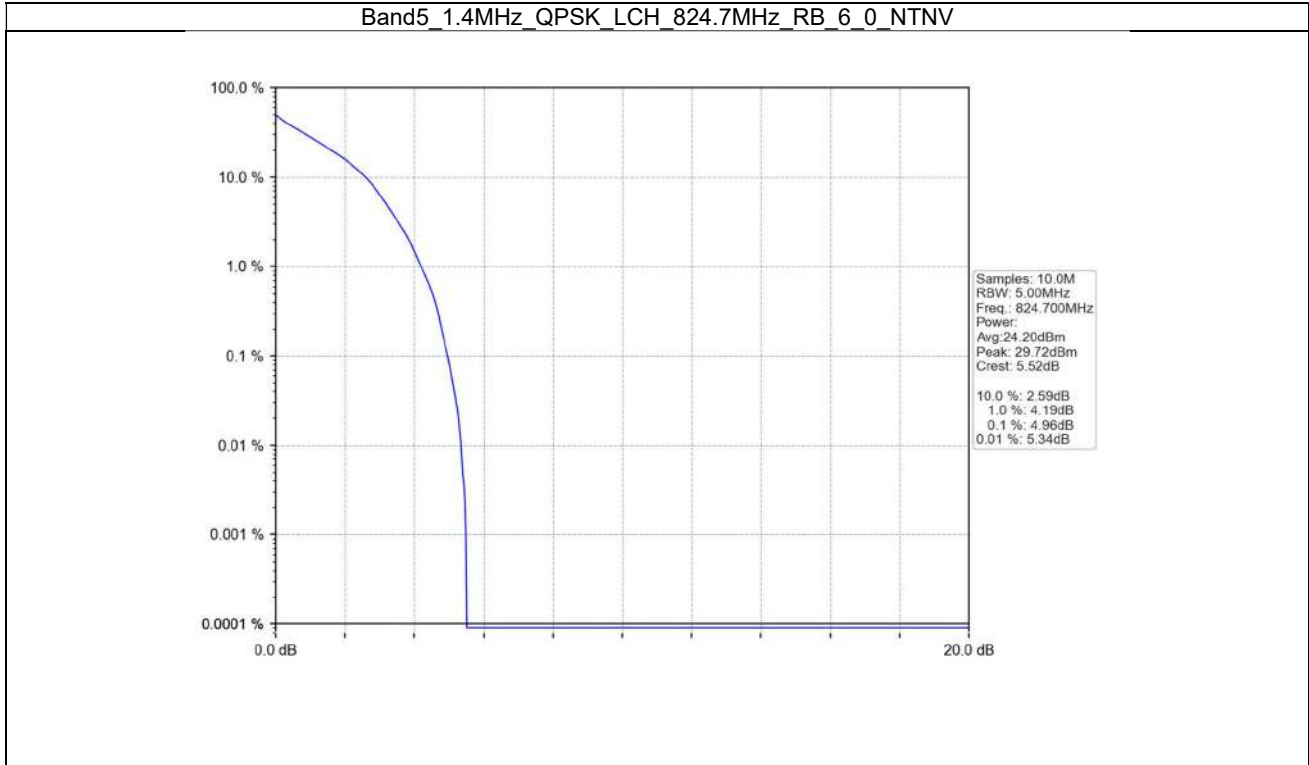
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5.1.2 Test Graph

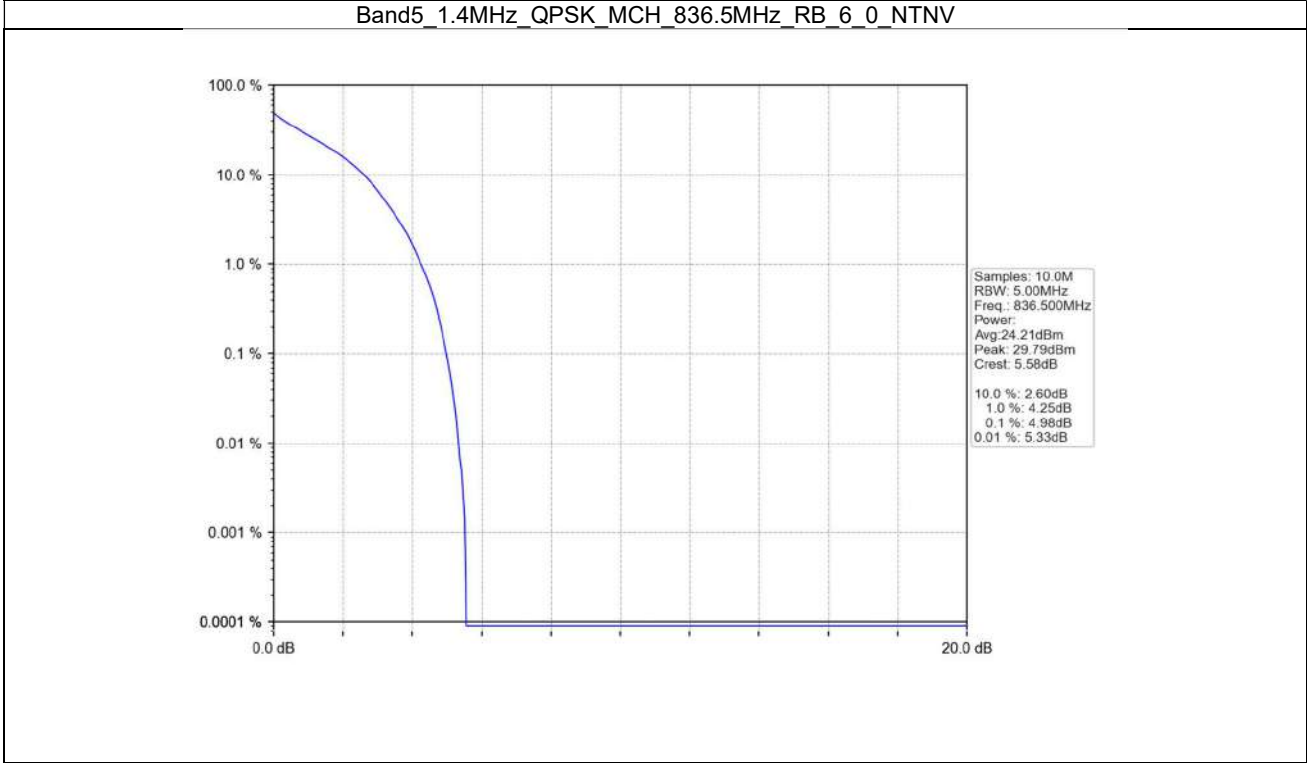


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Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



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Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV

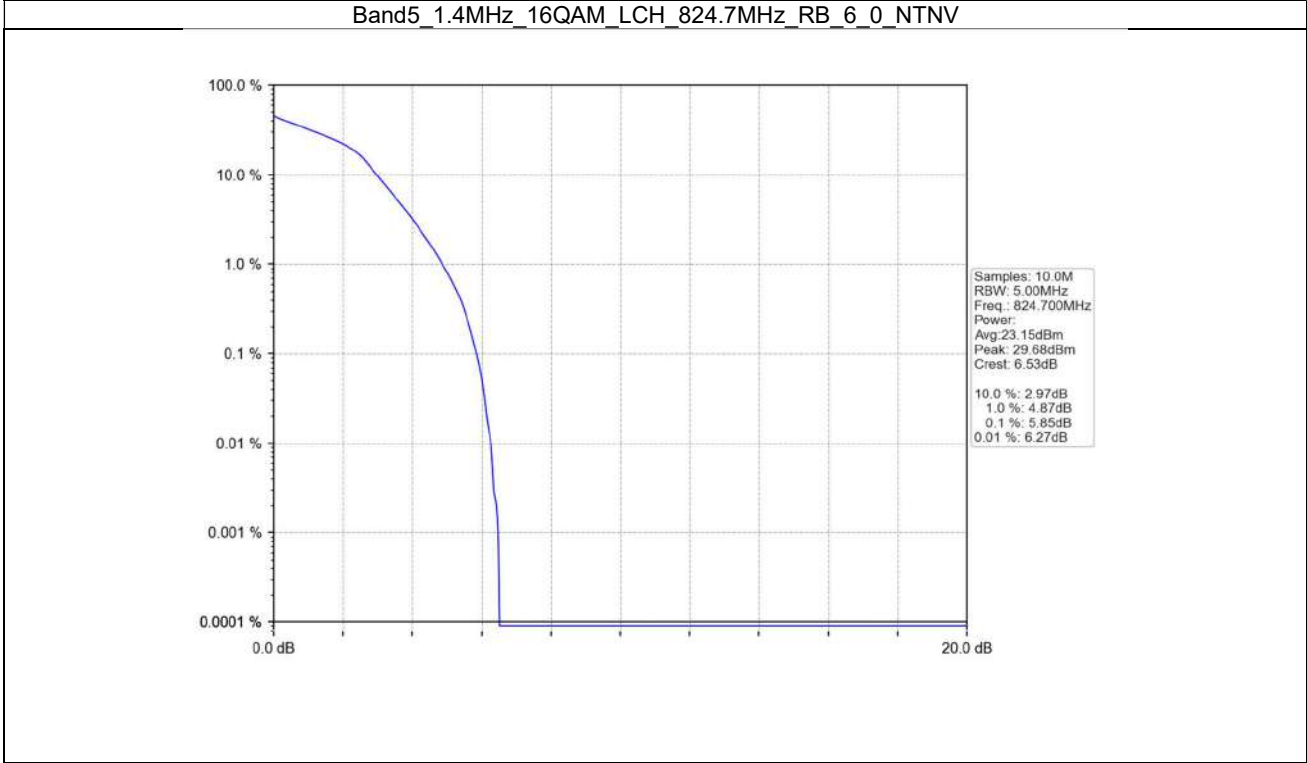


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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

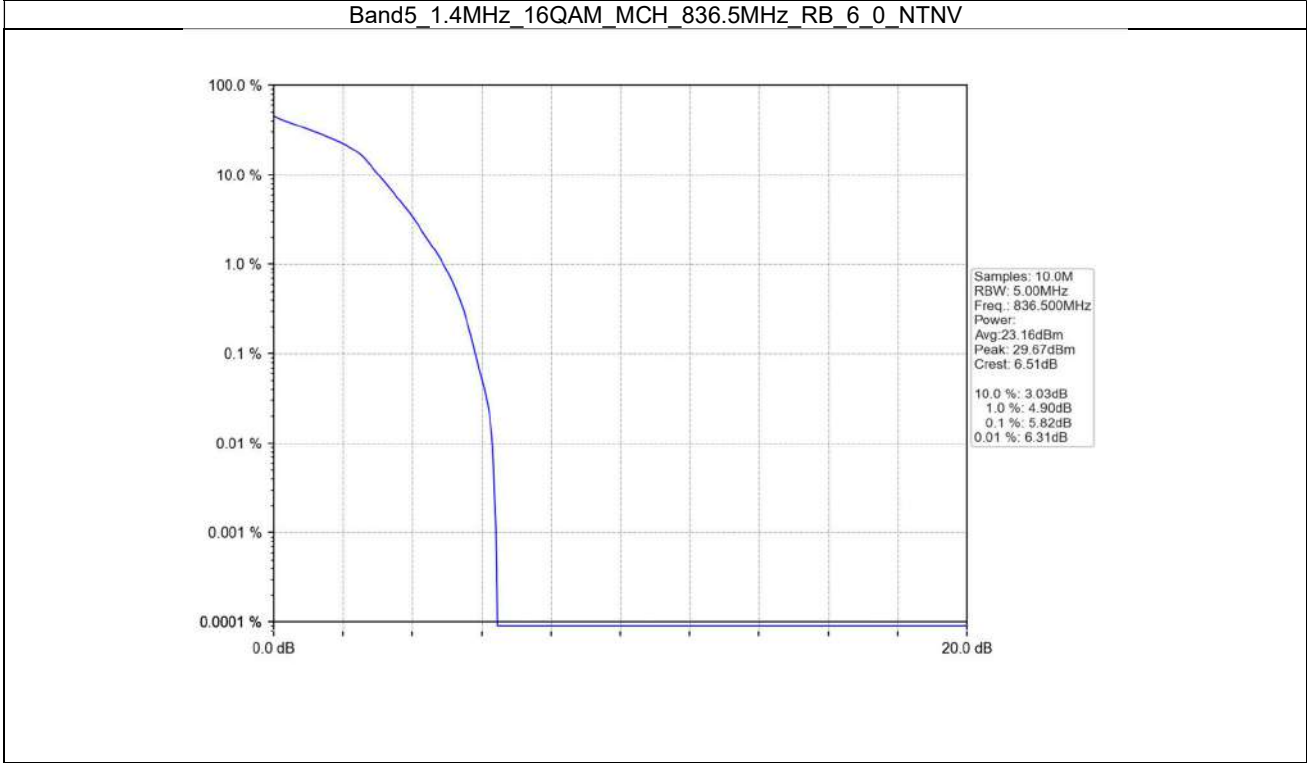


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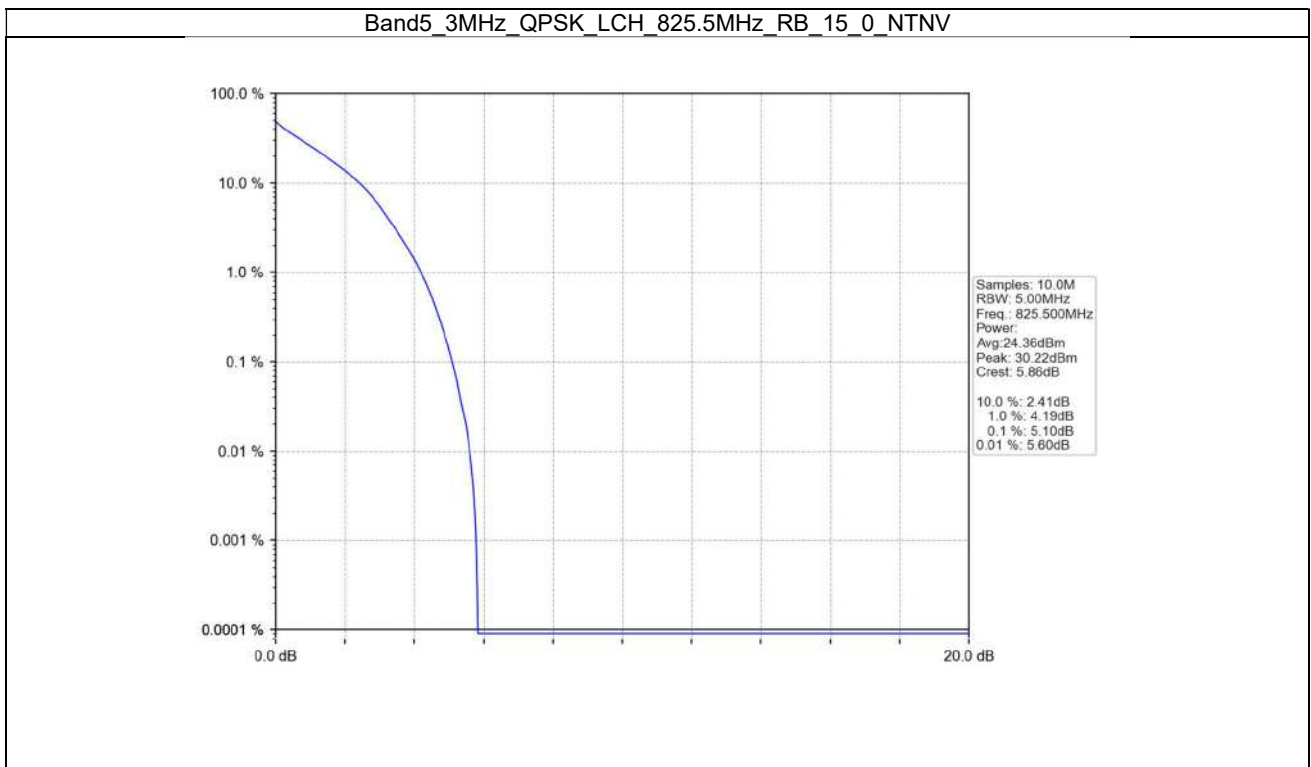
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5.2 B5_3MHz

5.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.10	<=13	Pass
	836.5	15	0	5.24	<=13	Pass
	847.5	15	0	4.96	<=13	Pass
16QAM	825.5	15	0	5.97	<=13	Pass
	836.5	15	0	6.06	<=13	Pass
	847.5	15	0	5.78	<=13	Pass

5.2.2 Test Graph



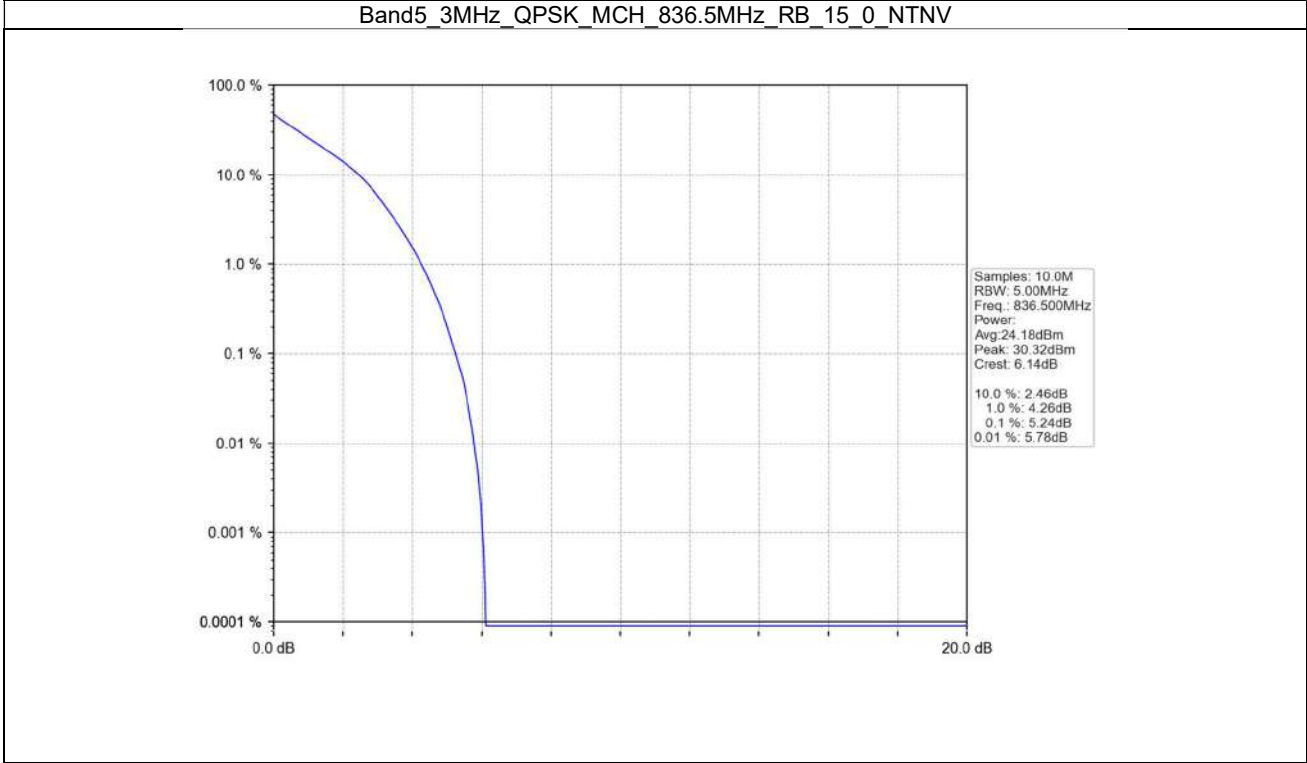
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Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV

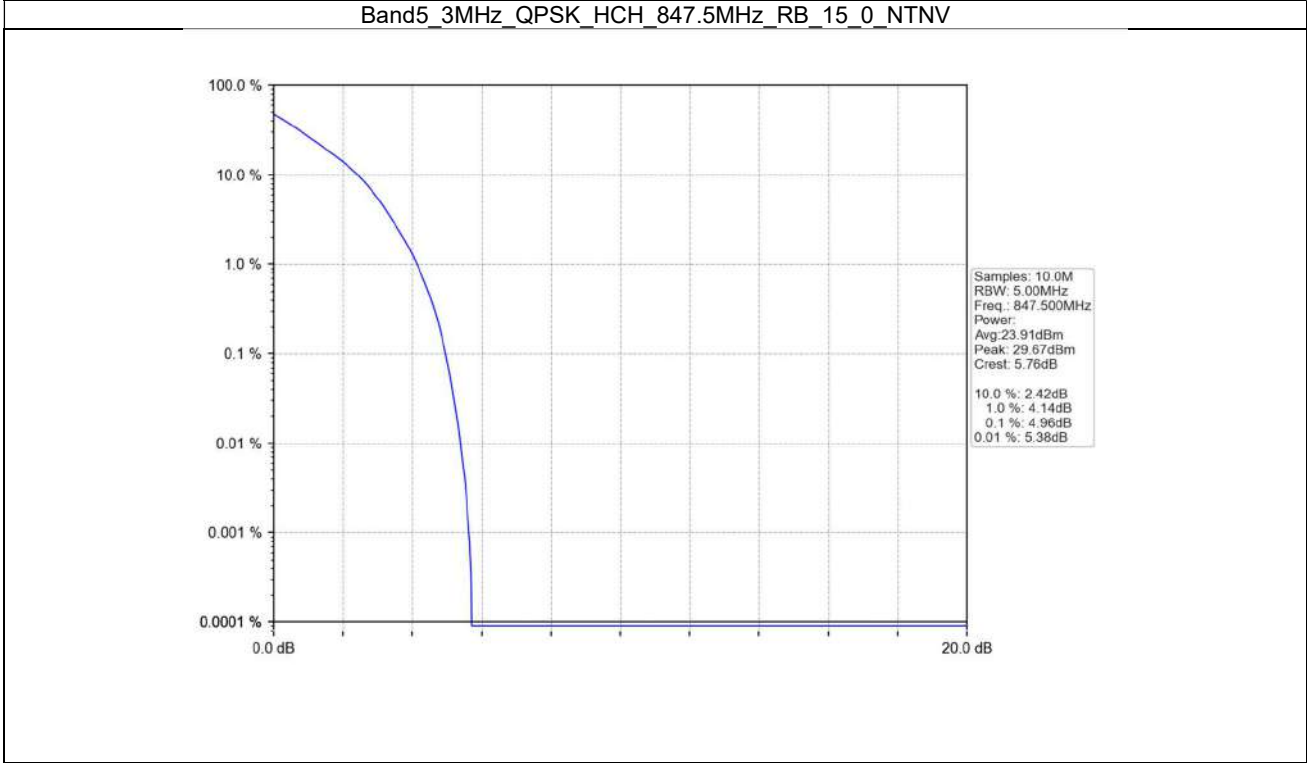


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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV

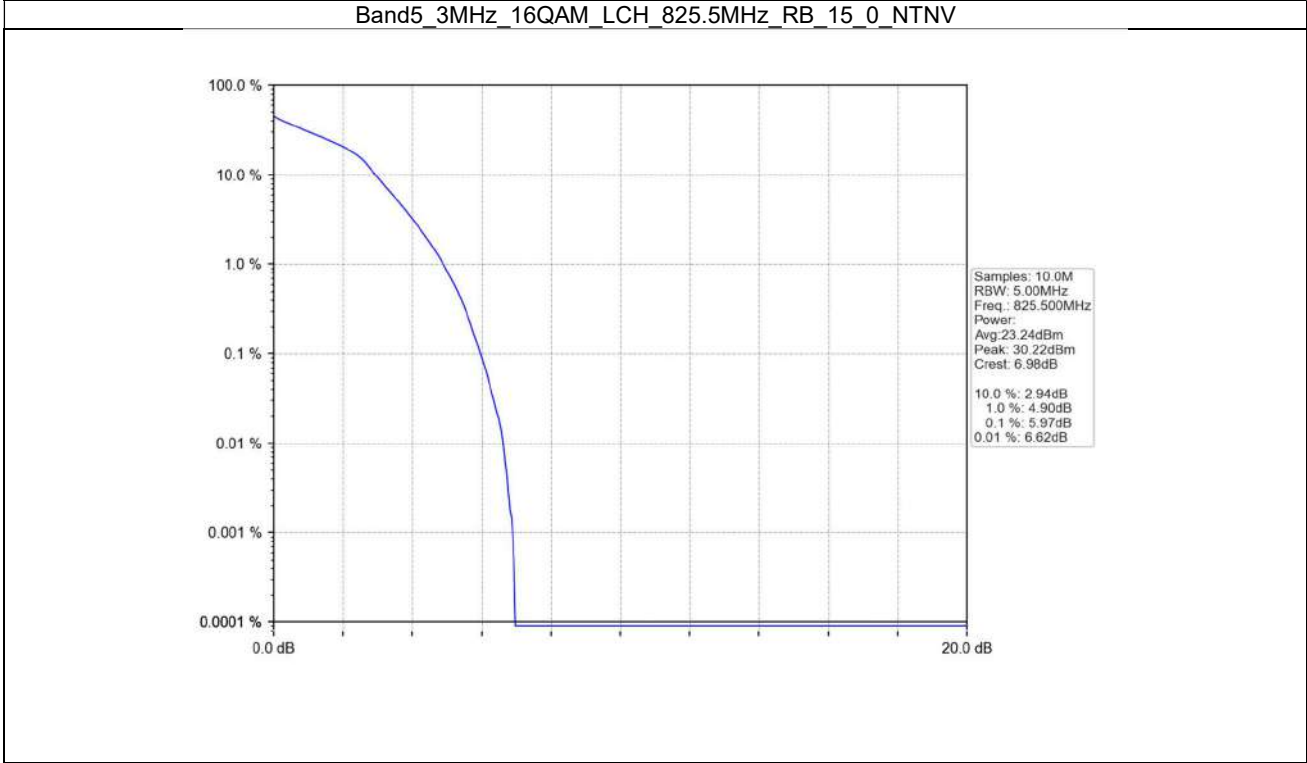


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Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



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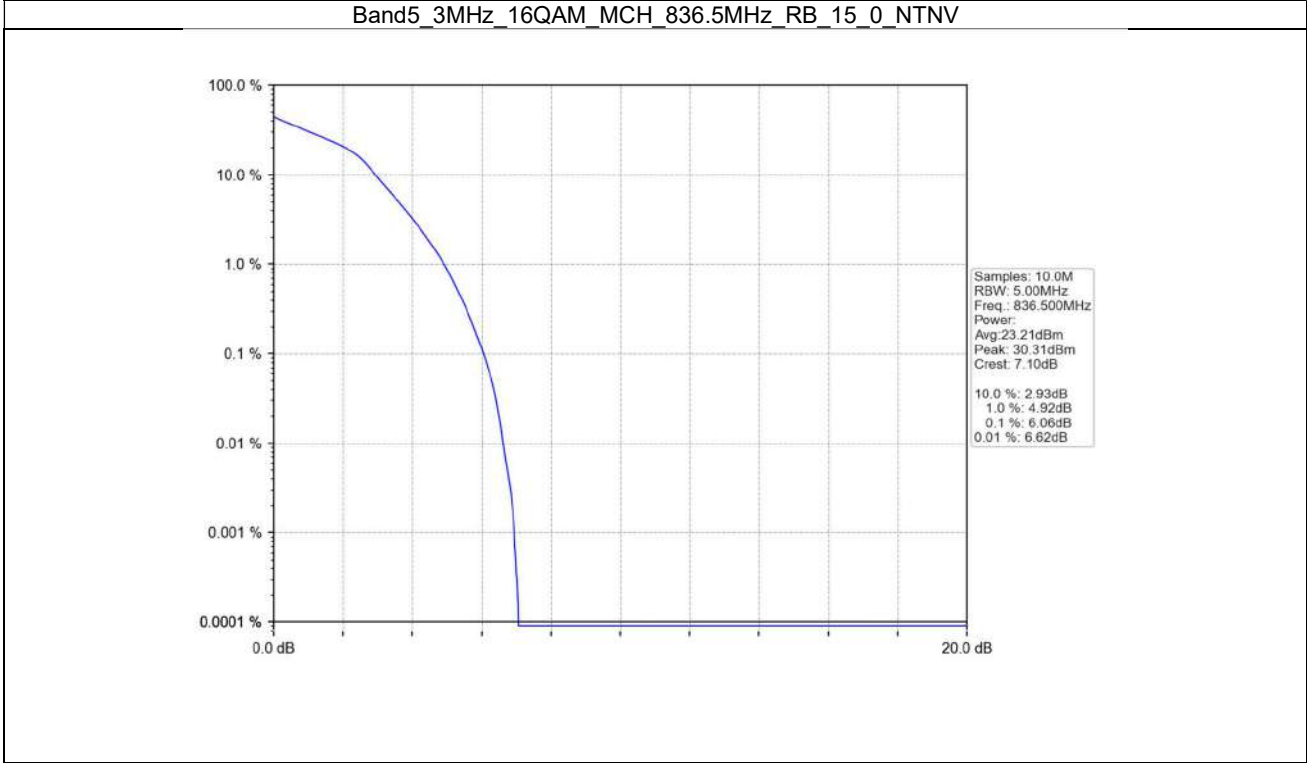
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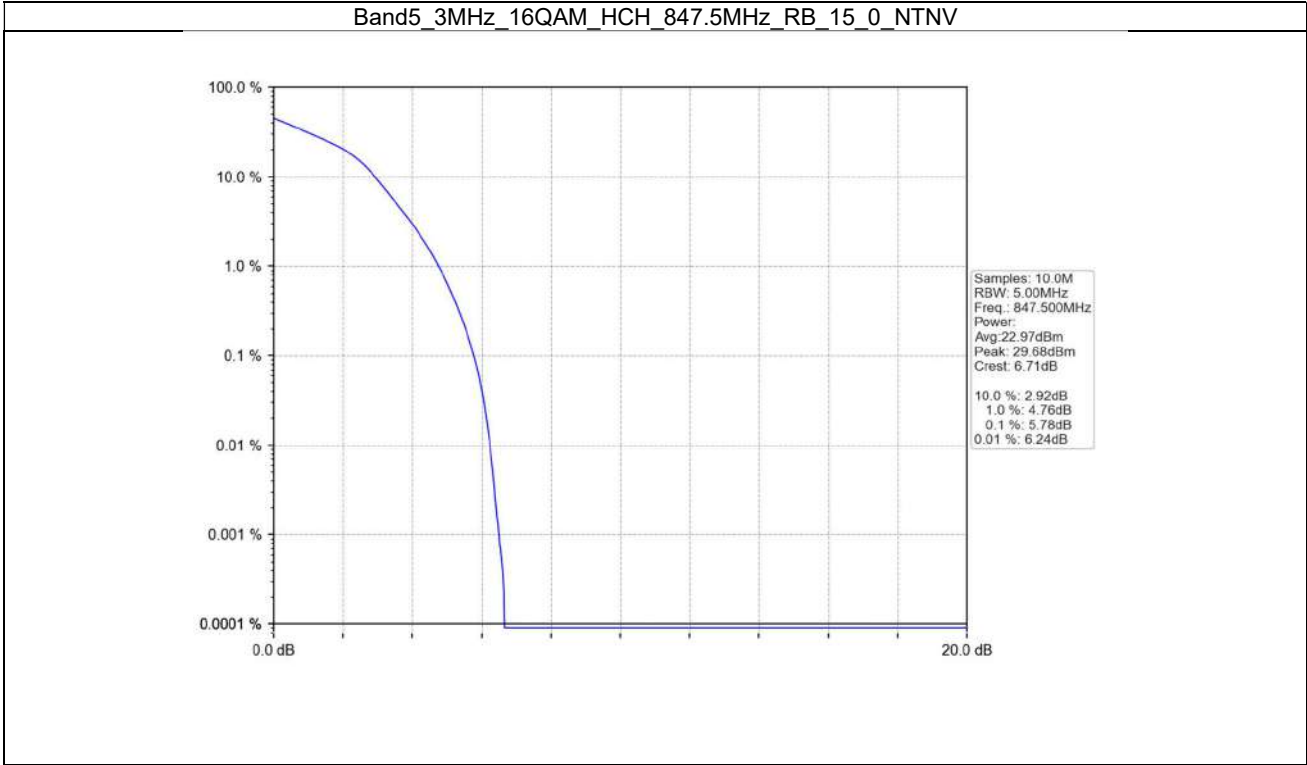
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



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5.3 B5_5MHz

5.3.1 Test Result

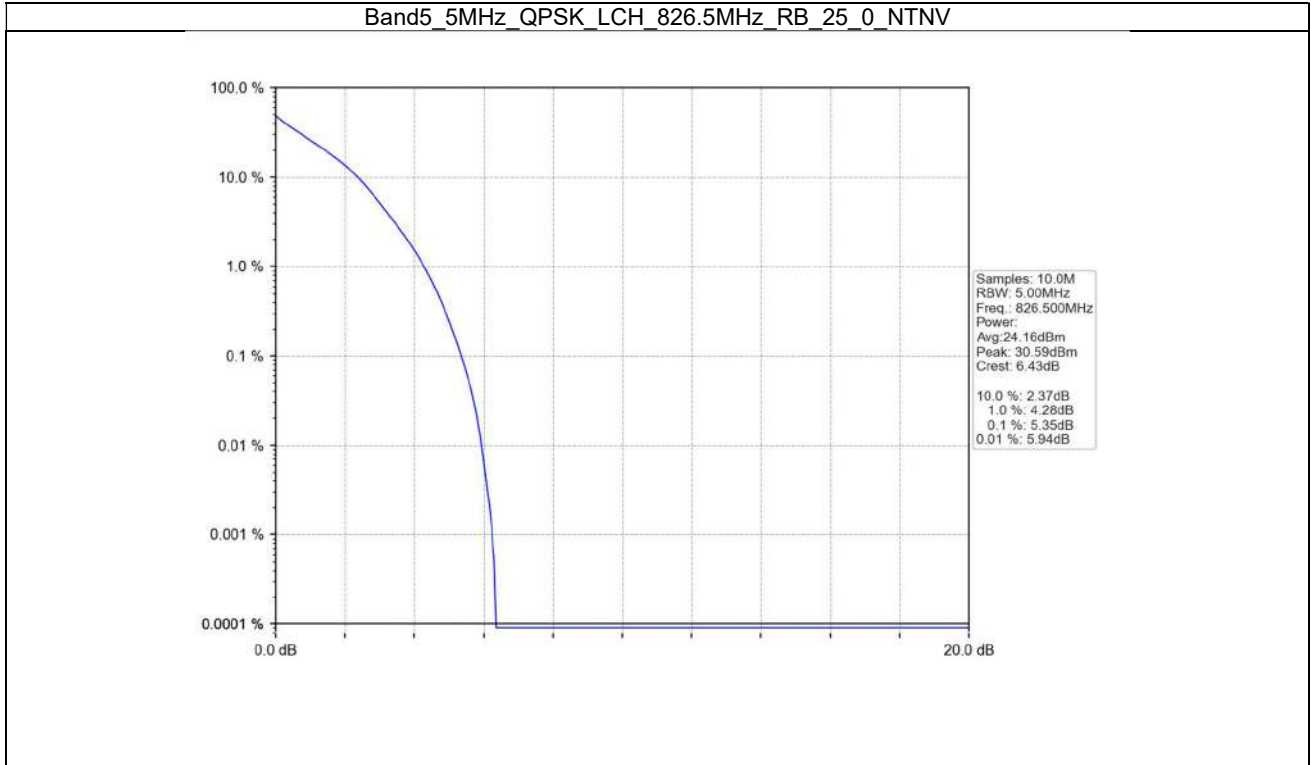
Band: 5 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.35	<=13	Pass
	836.5	25	0	5.44	<=13	Pass
	846.5	25	0	5.22	<=13	Pass
16QAM	826.5	25	0	6.09	<=13	Pass
	836.5	25	0	6.12	<=13	Pass
	846.5	25	0	5.92	<=13	Pass



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5.3.2 Test Graph

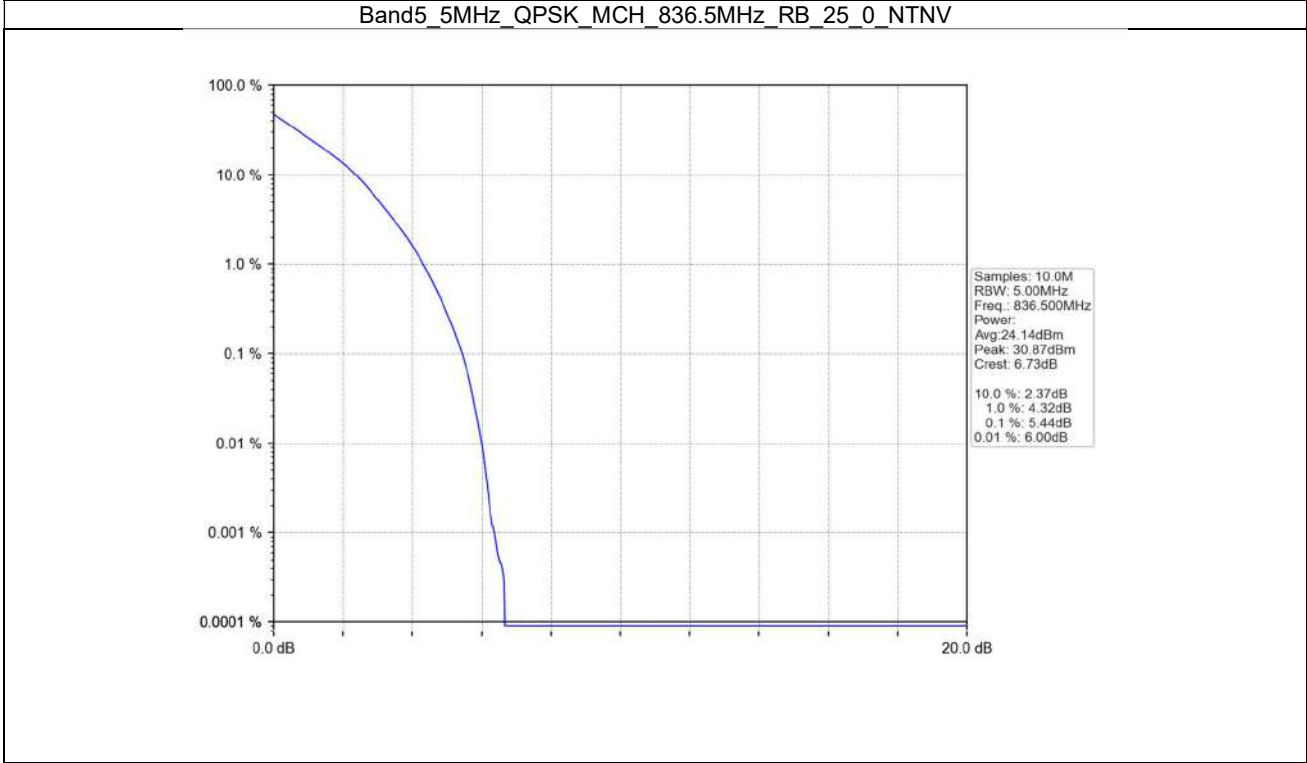


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Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV

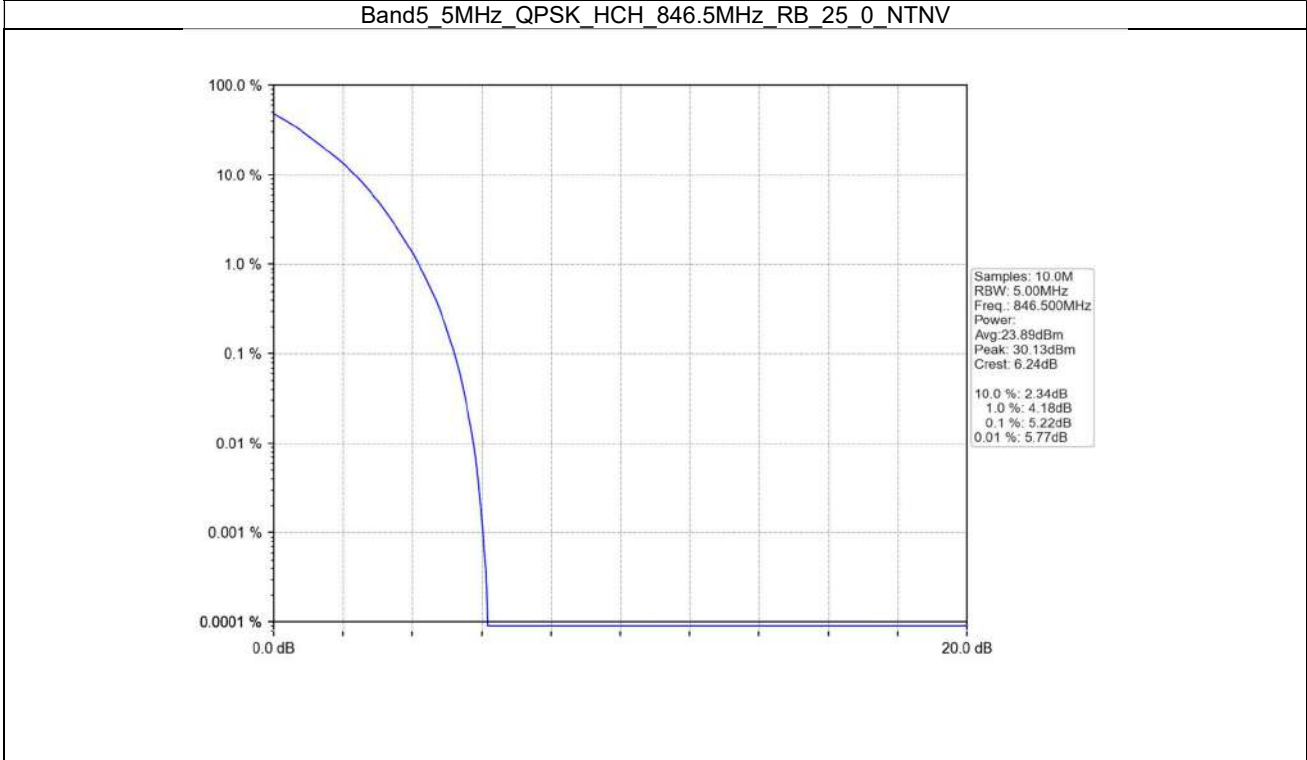


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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV

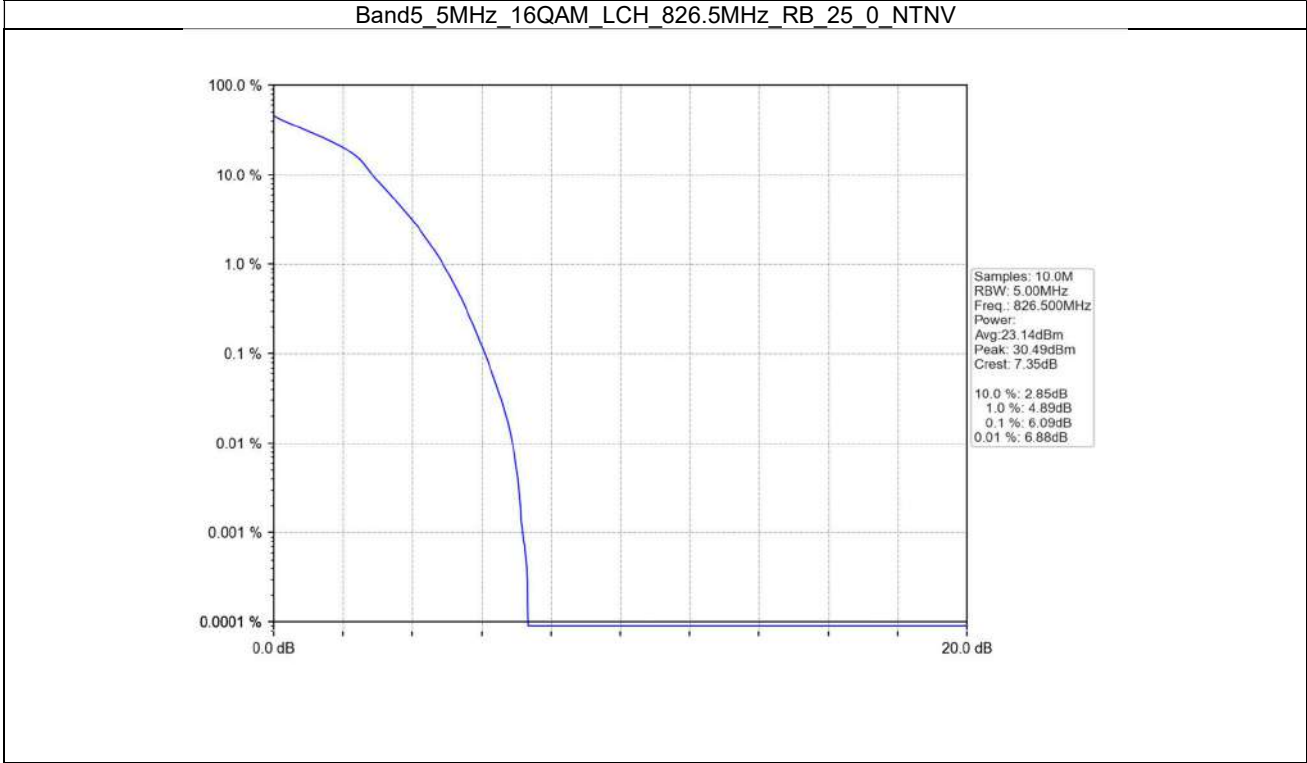


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Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV

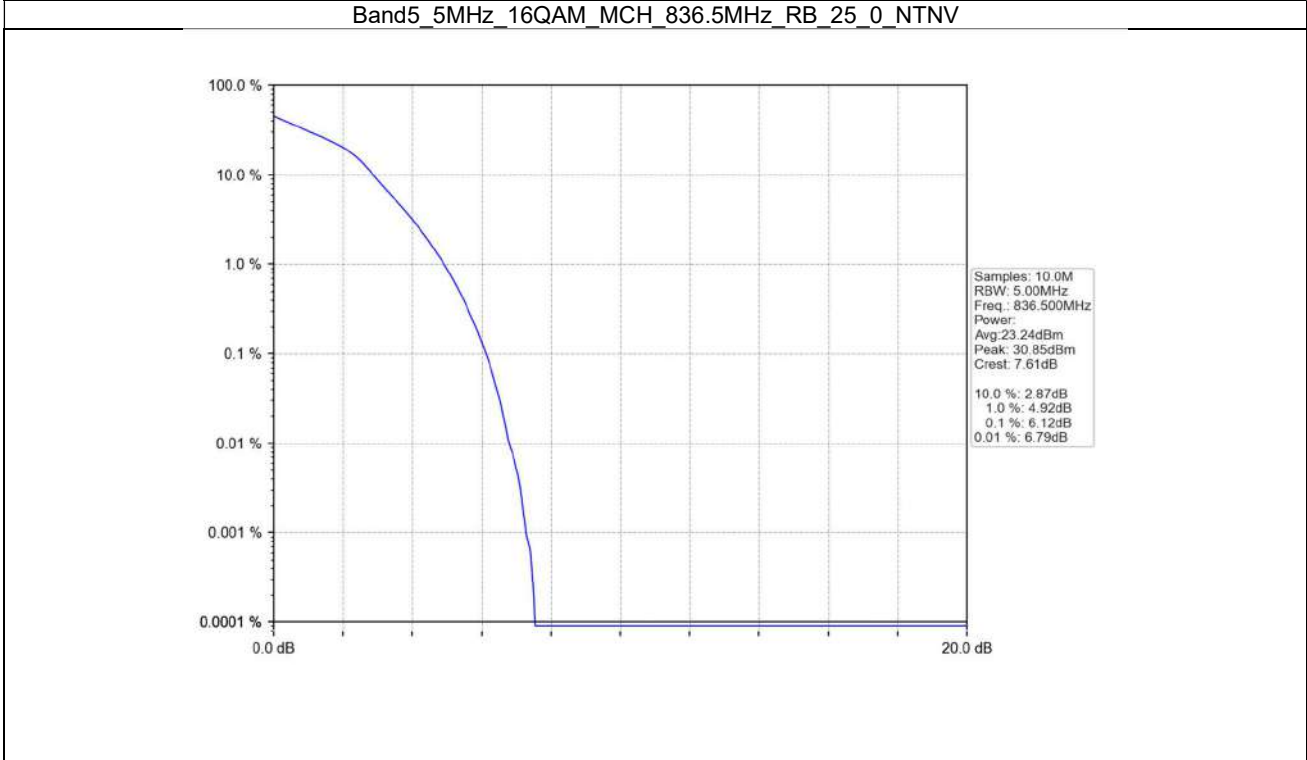


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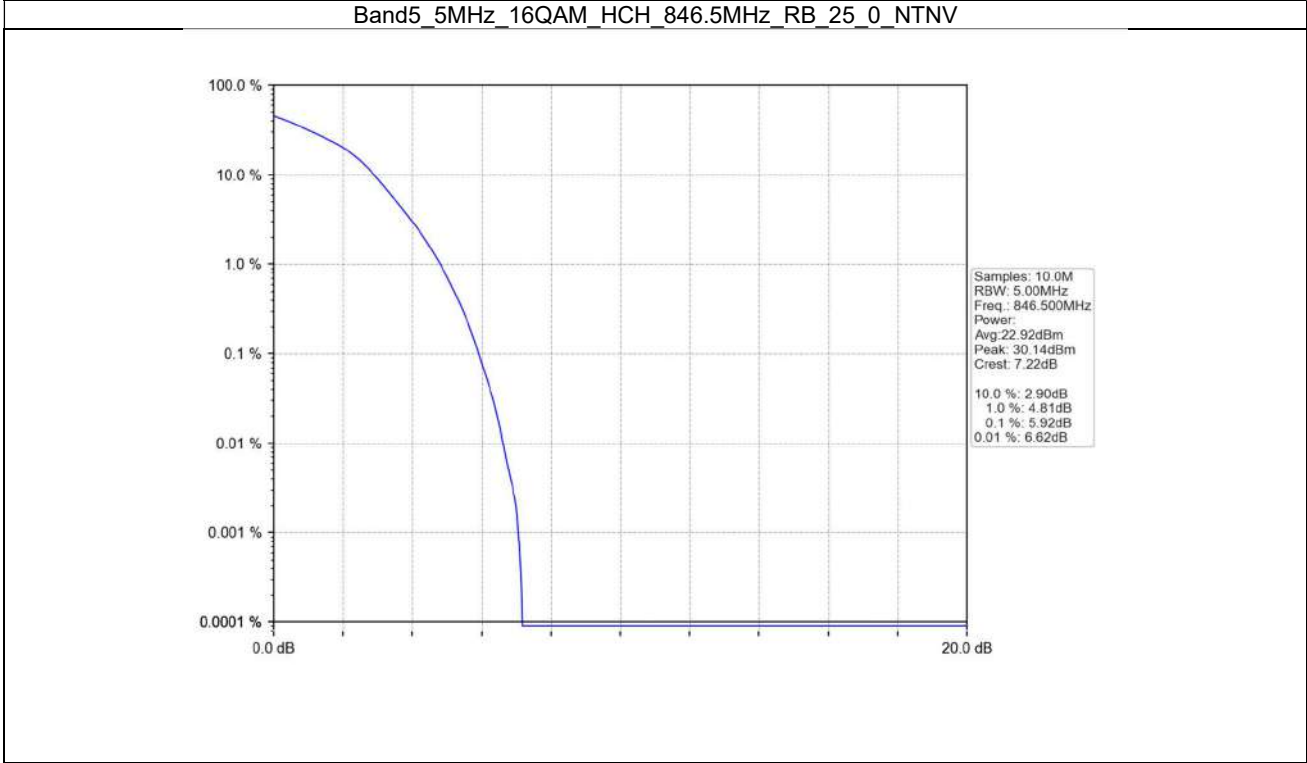


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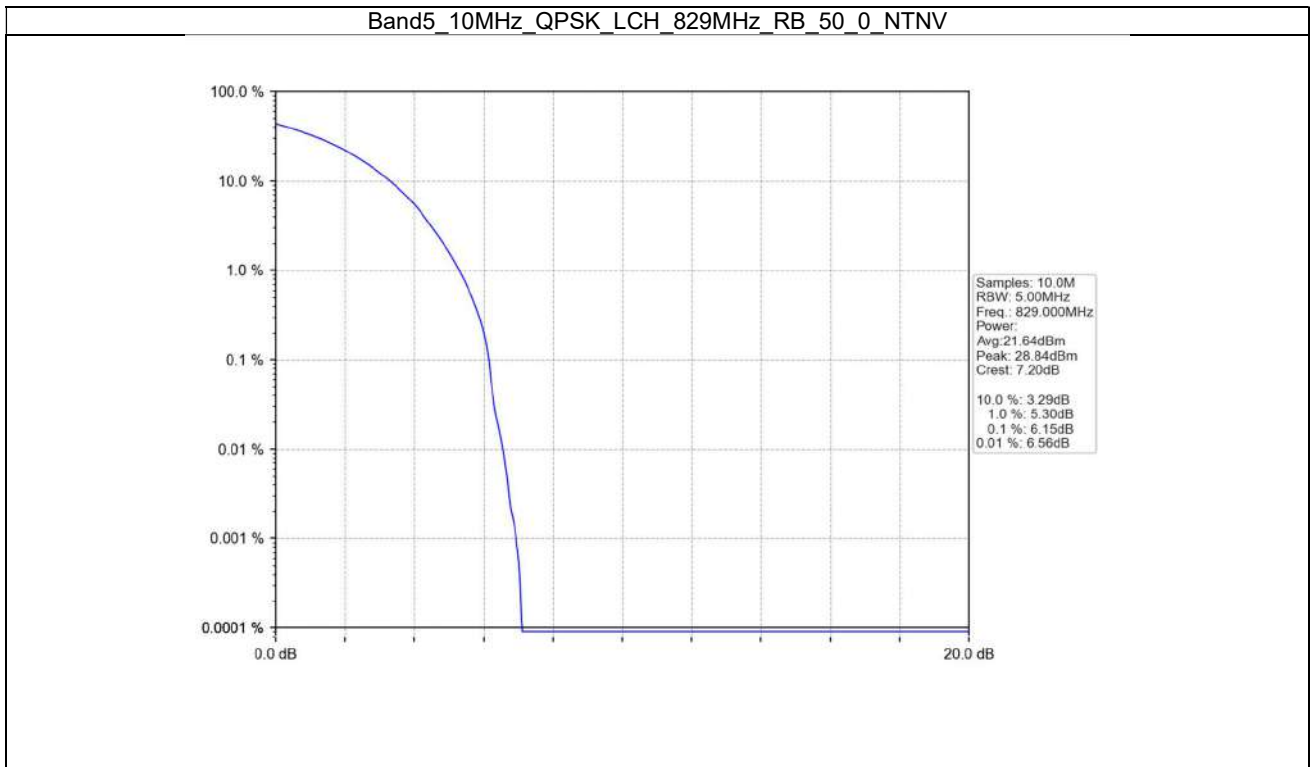
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5.4 B5_10MHz

5.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	6.15	<=13	Pass
	836.5	50	0	6.05	<=13	Pass
	844	50	0	6.31	<=13	Pass
16QAM	829	50	0	6.79	<=13	Pass
	836.5	50	0	6.74	<=13	Pass
	844	50	0	6.79	<=13	Pass

5.4.2 Test Graph



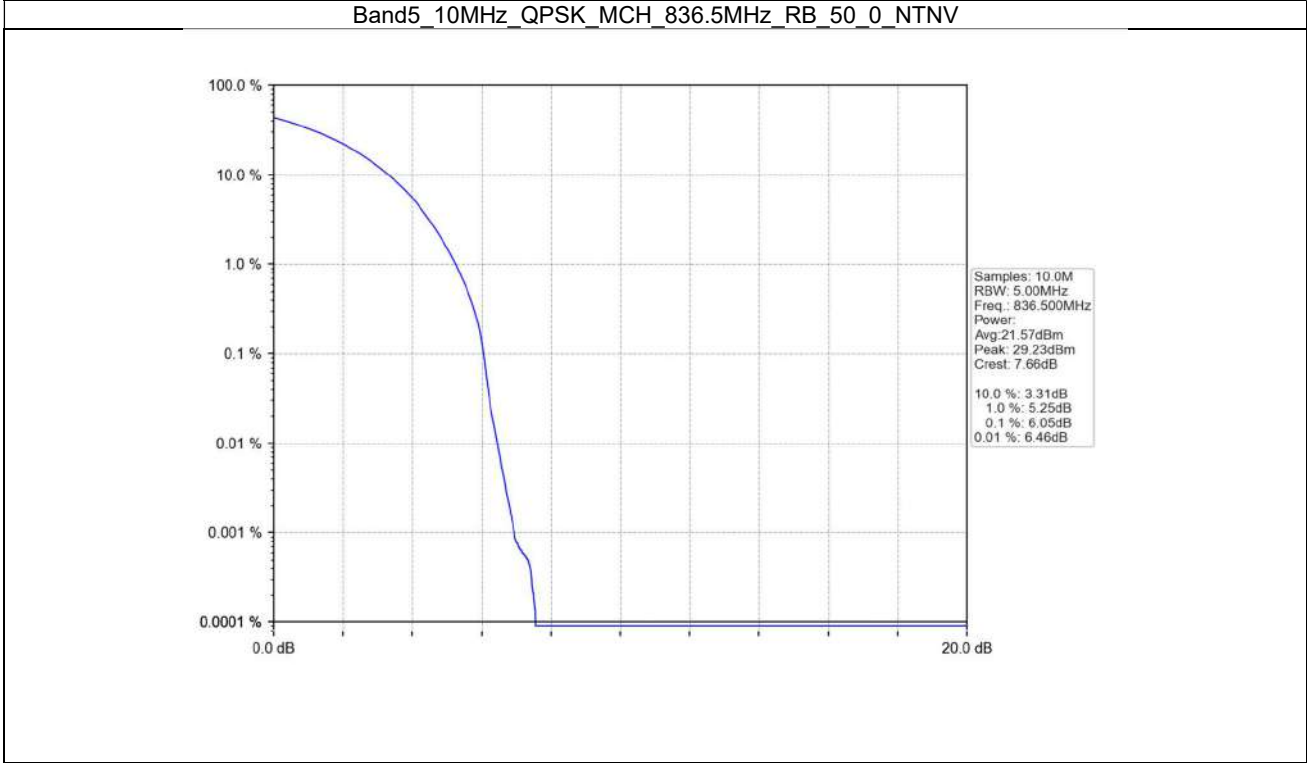
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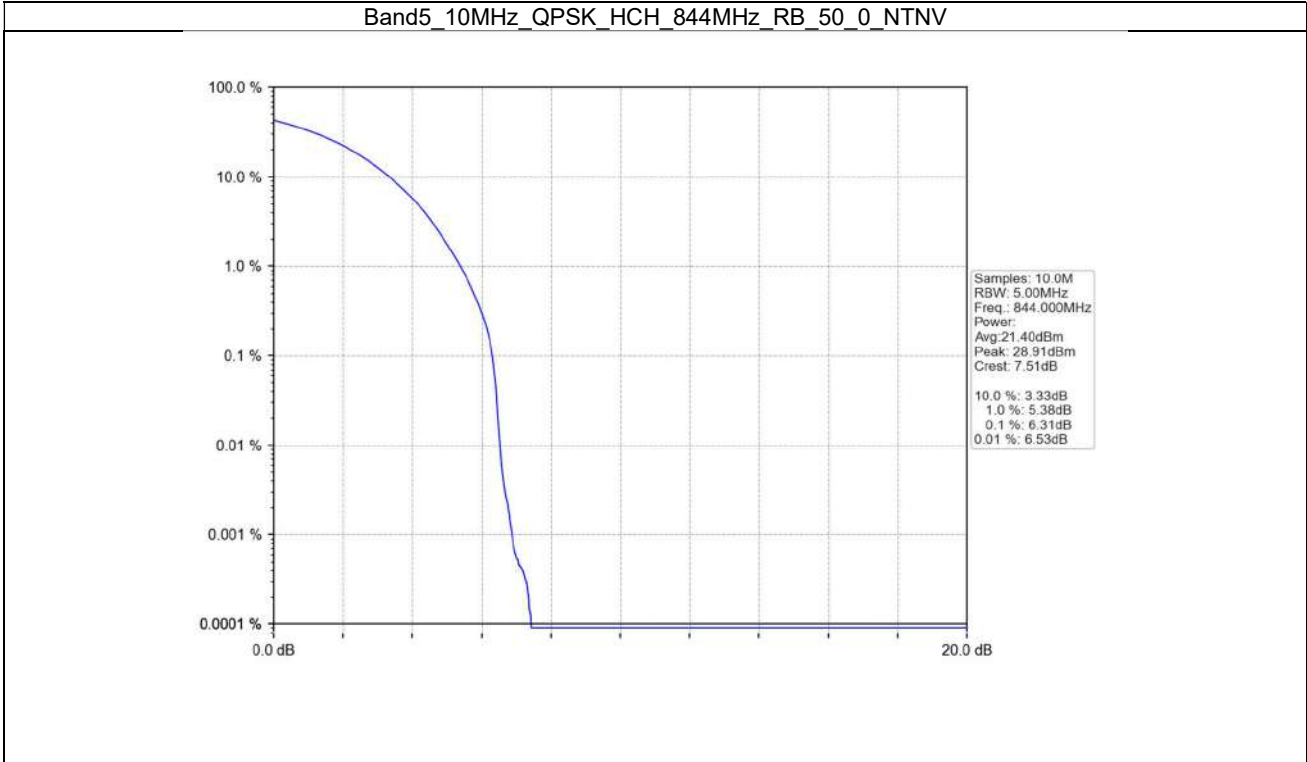
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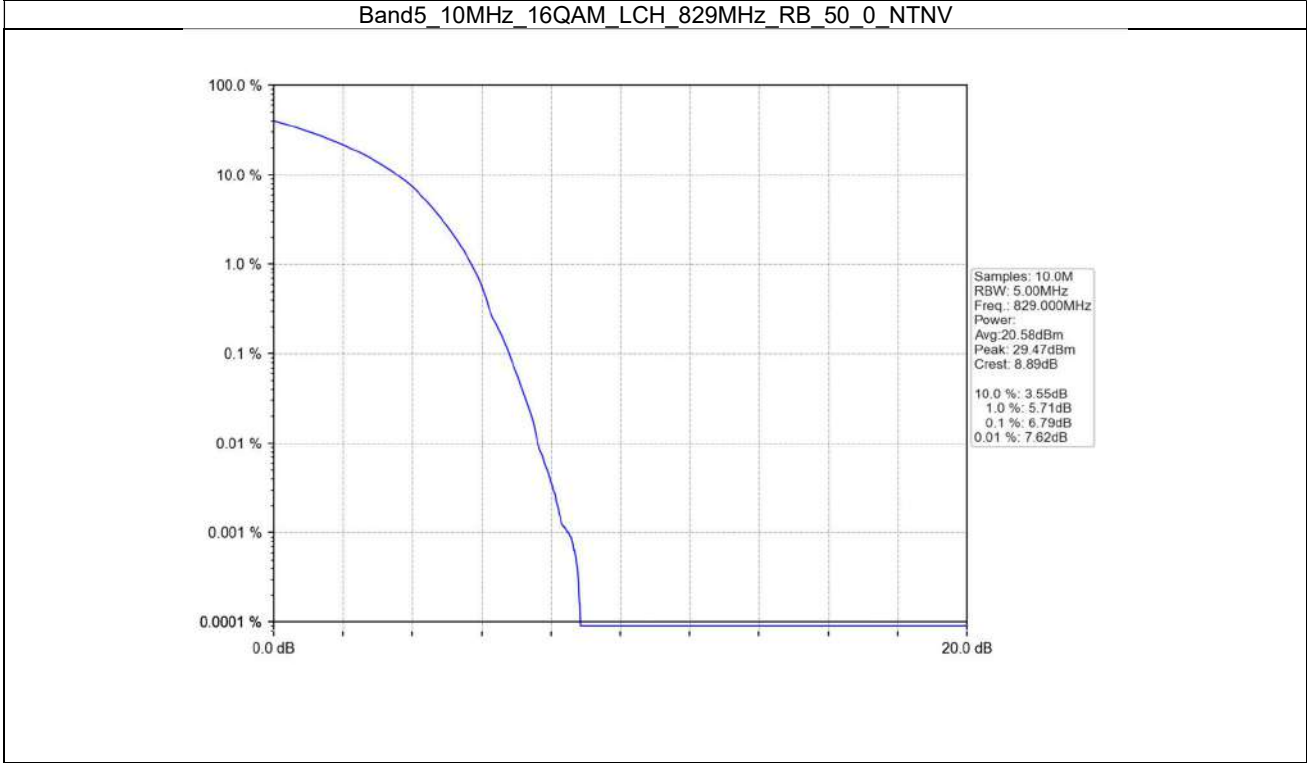


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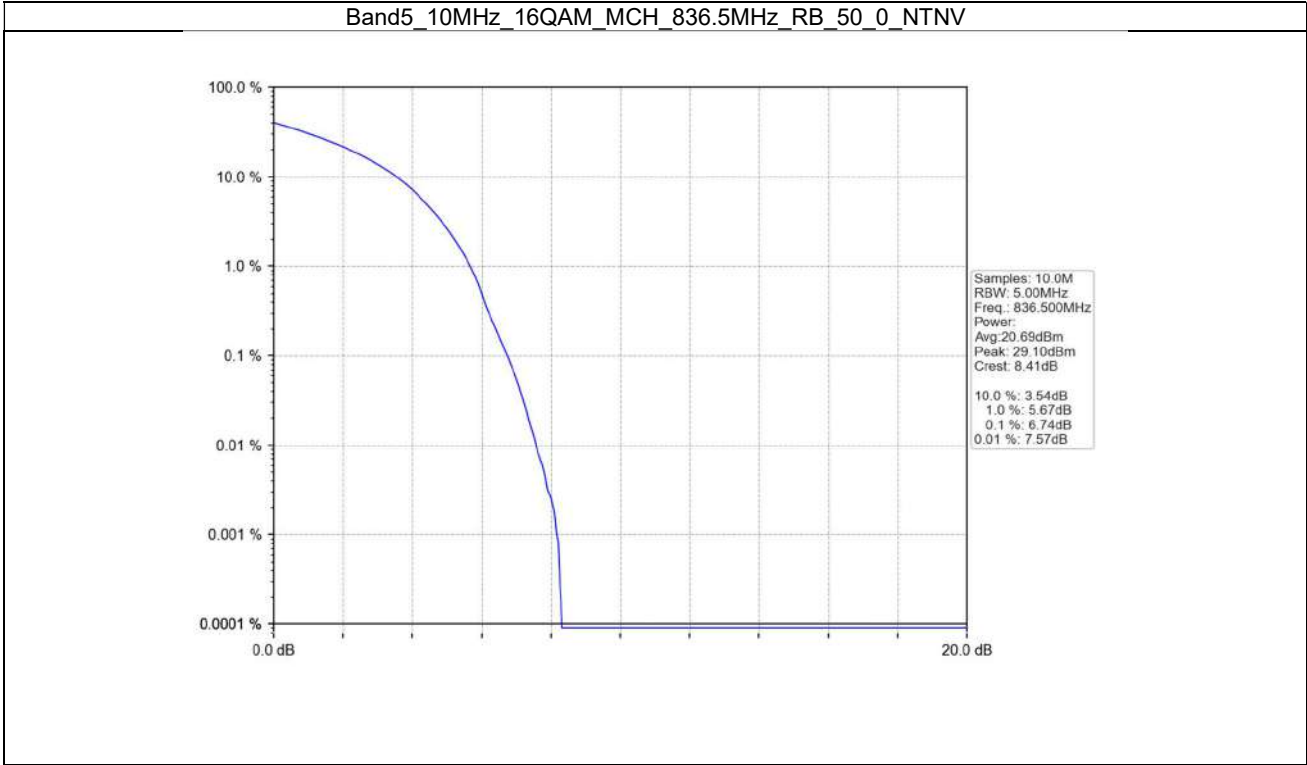
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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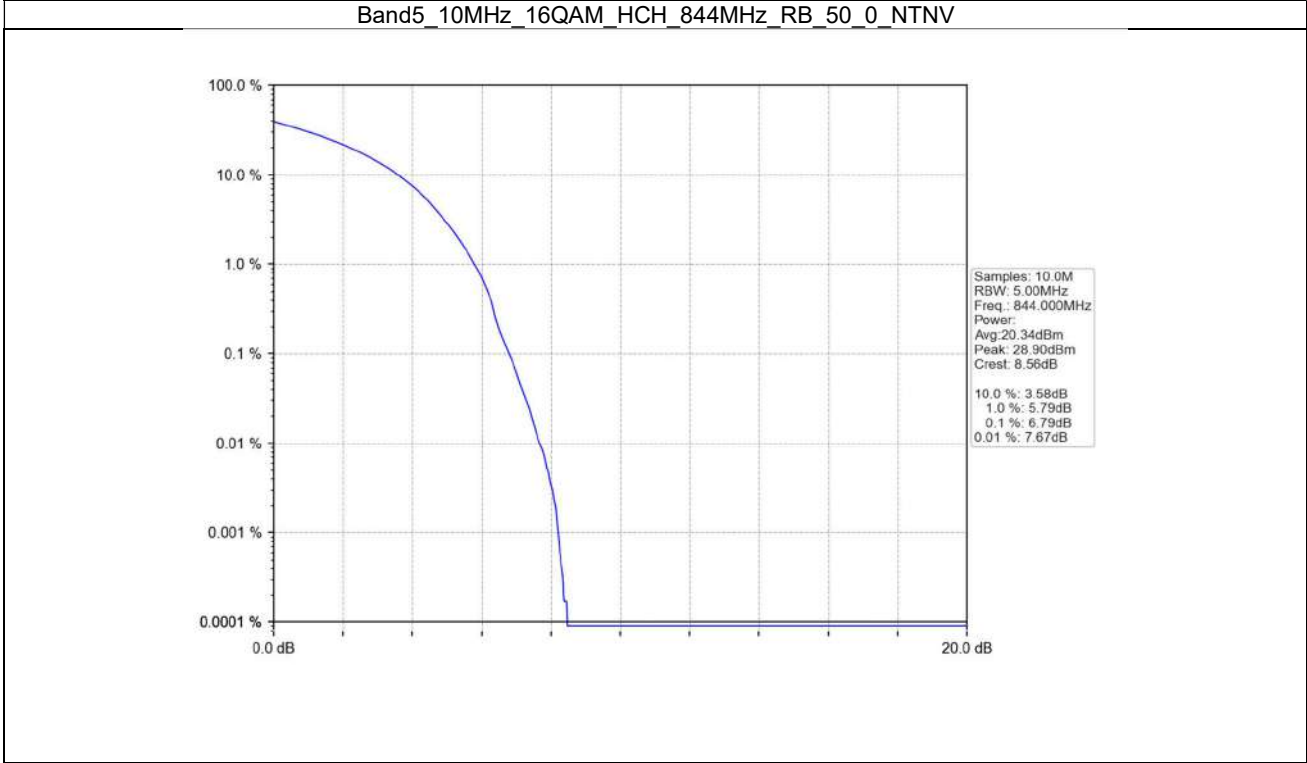


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Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



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6. Spurious Emission

6.1 B5_1.4MHz

6.1.1 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
16QAM	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.



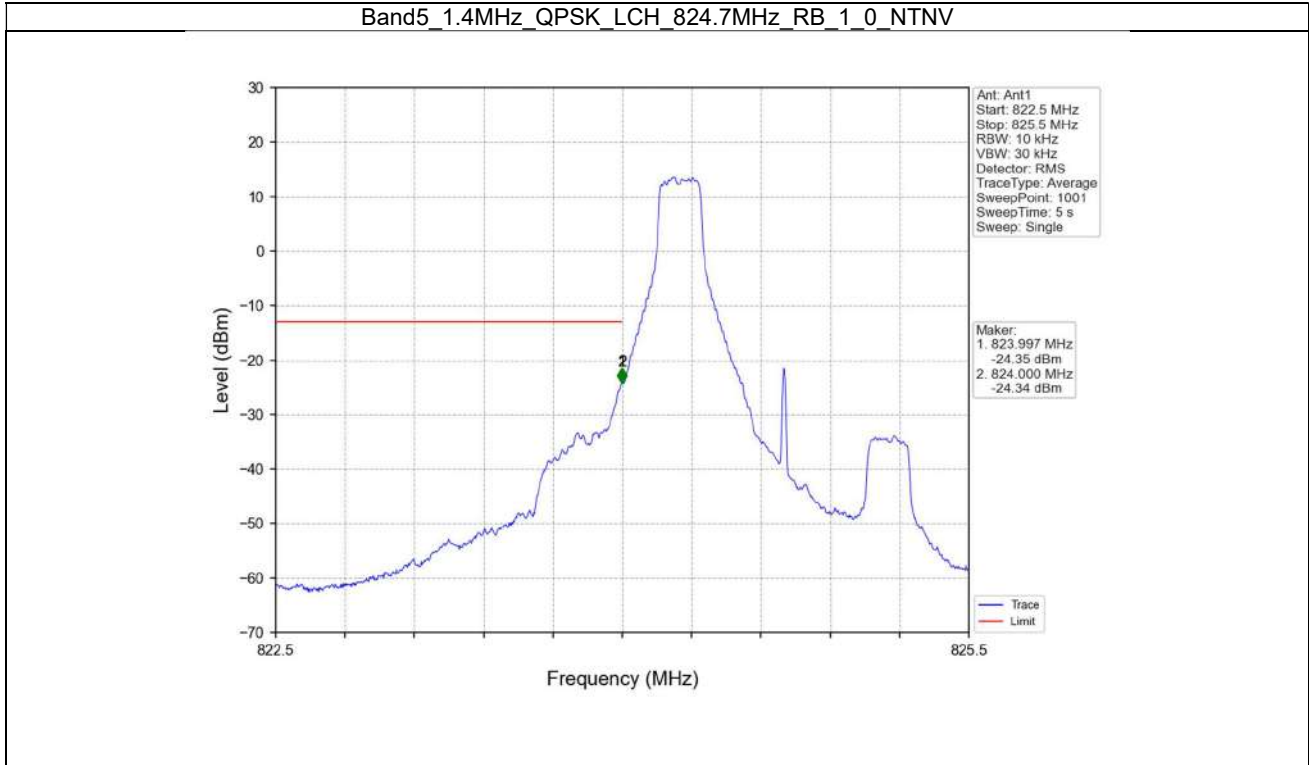
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6.1.2 Test Graph

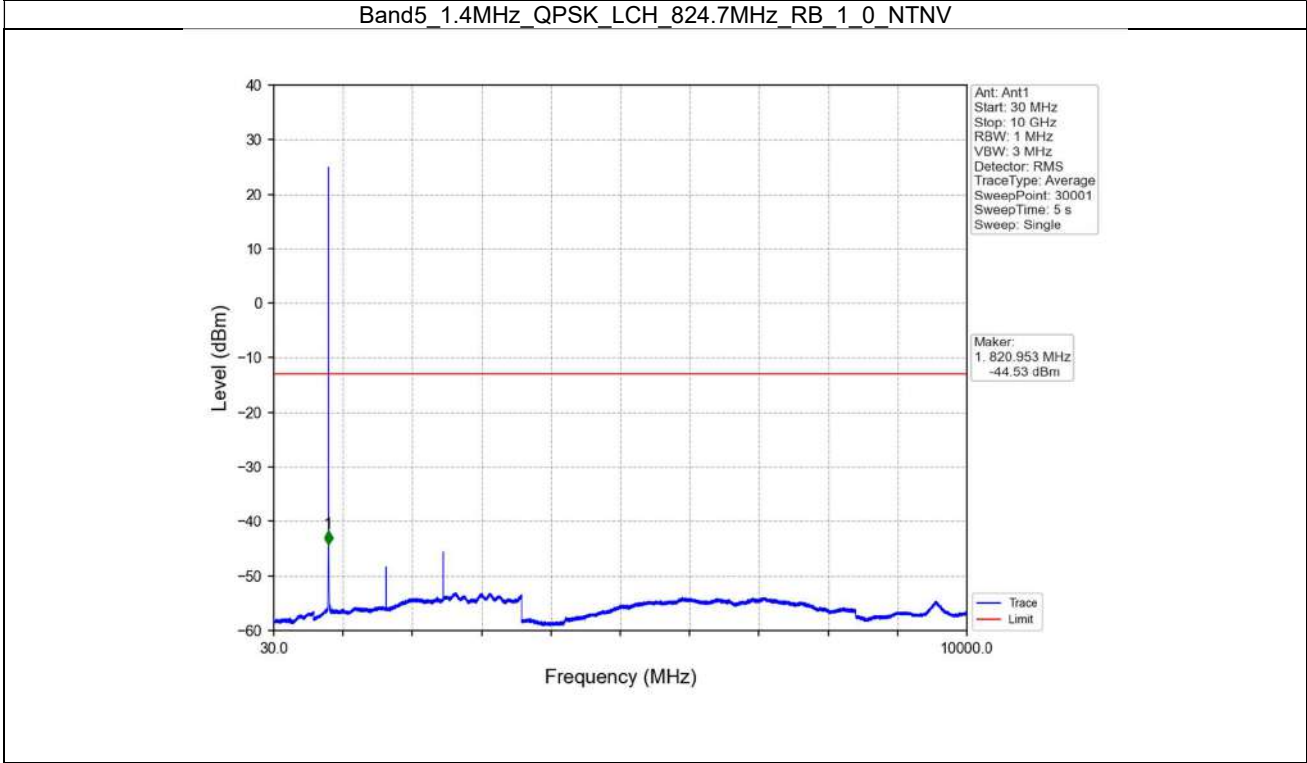


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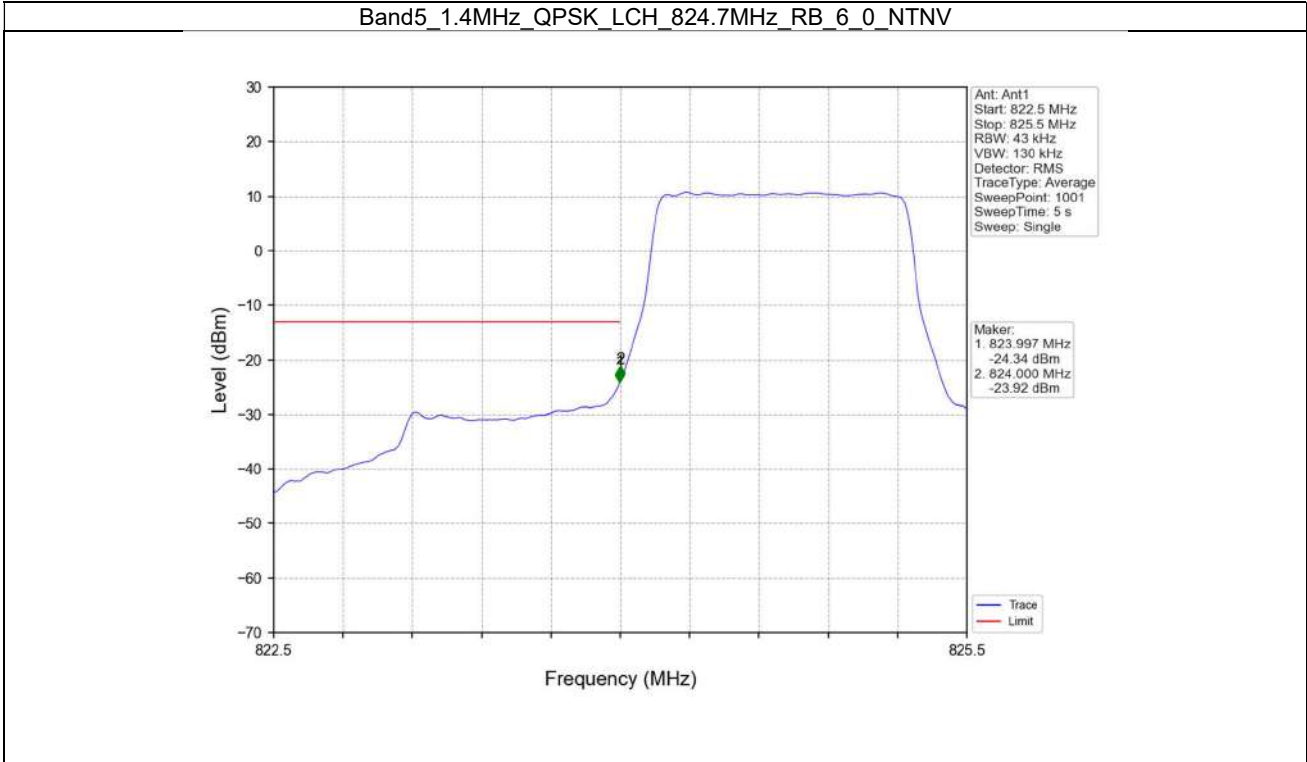
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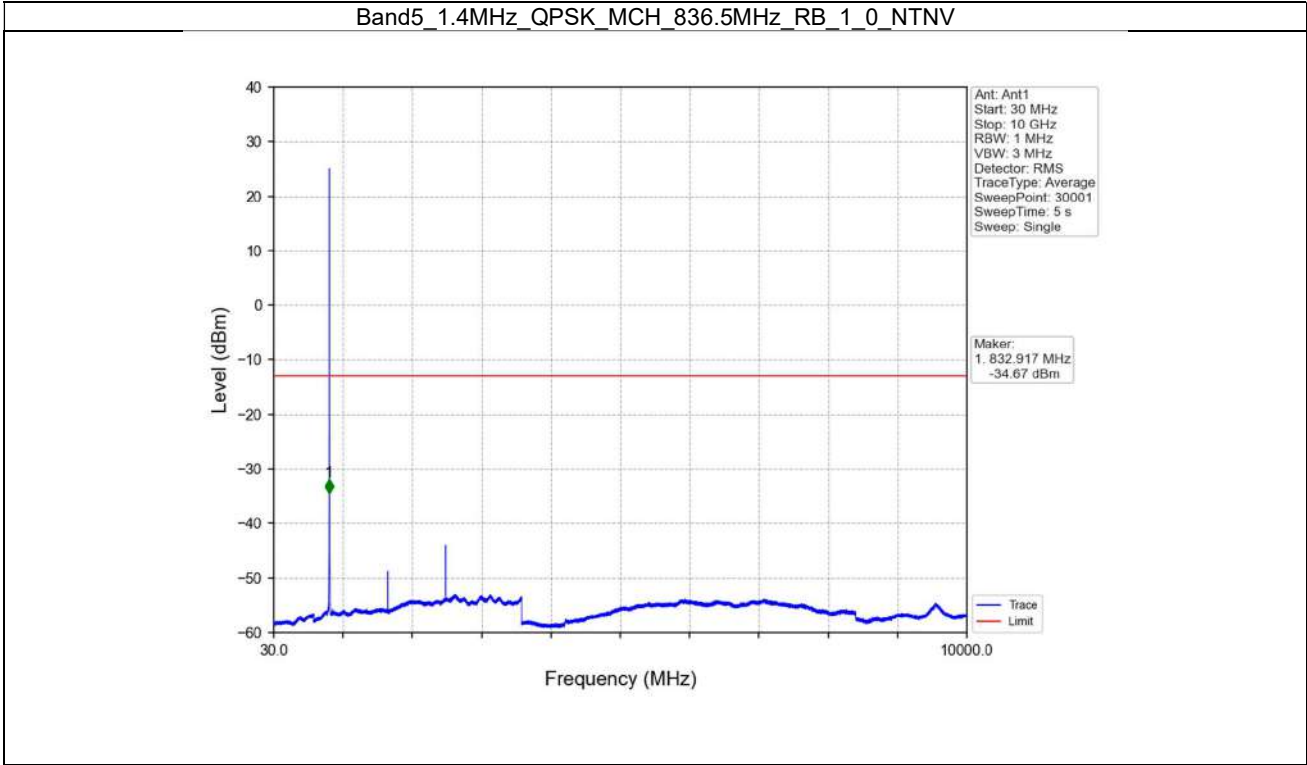


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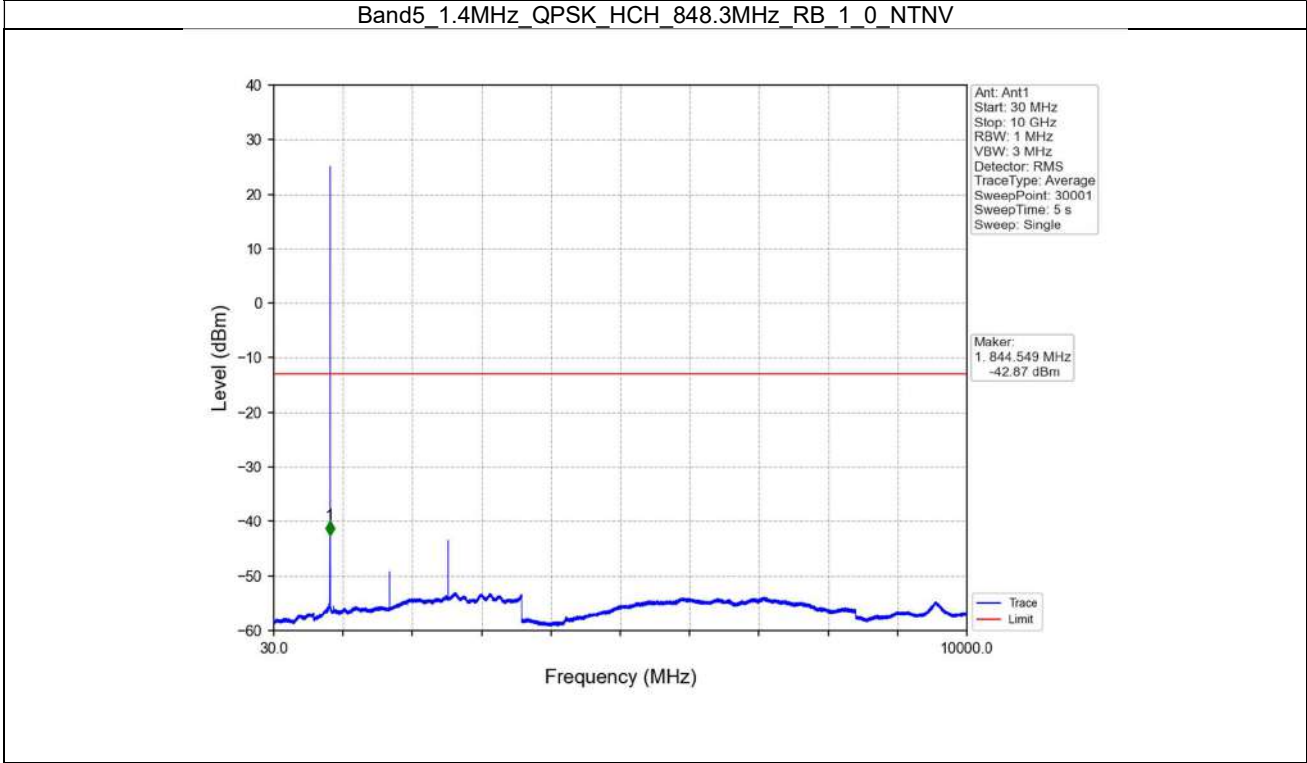


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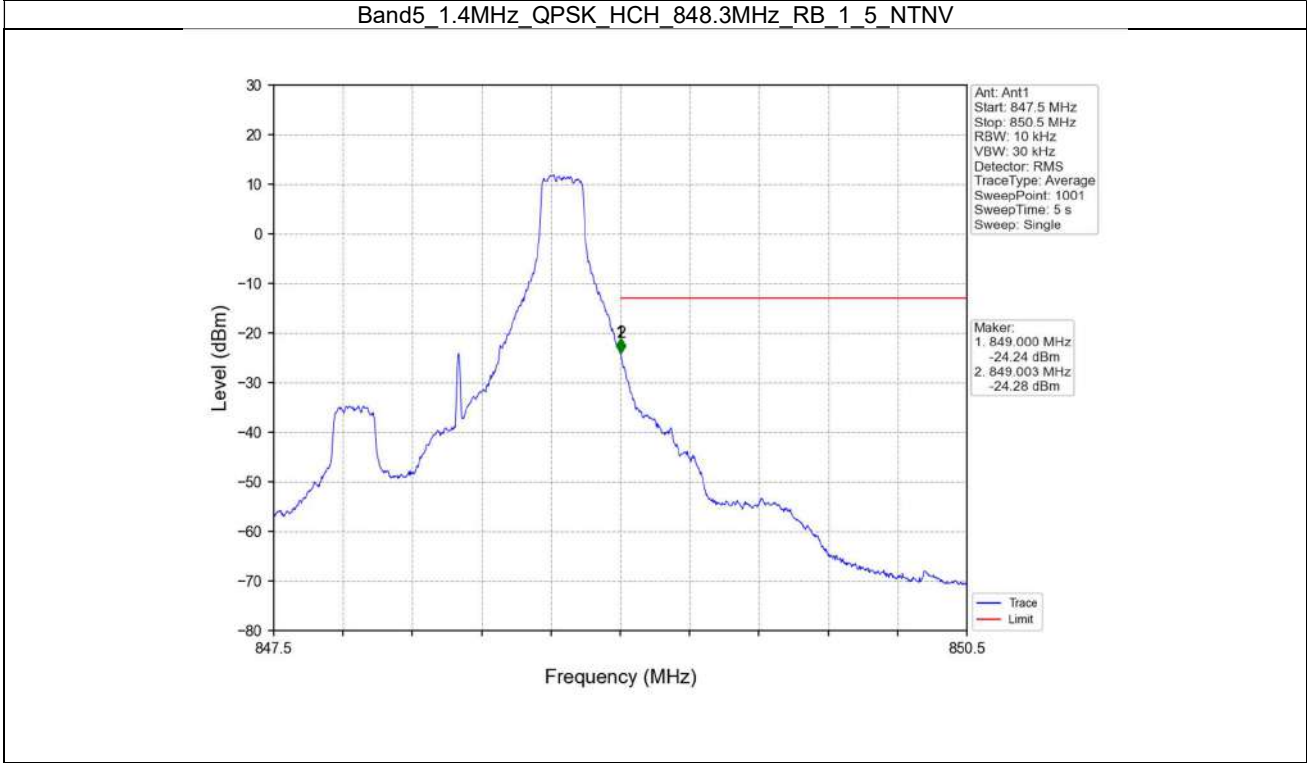
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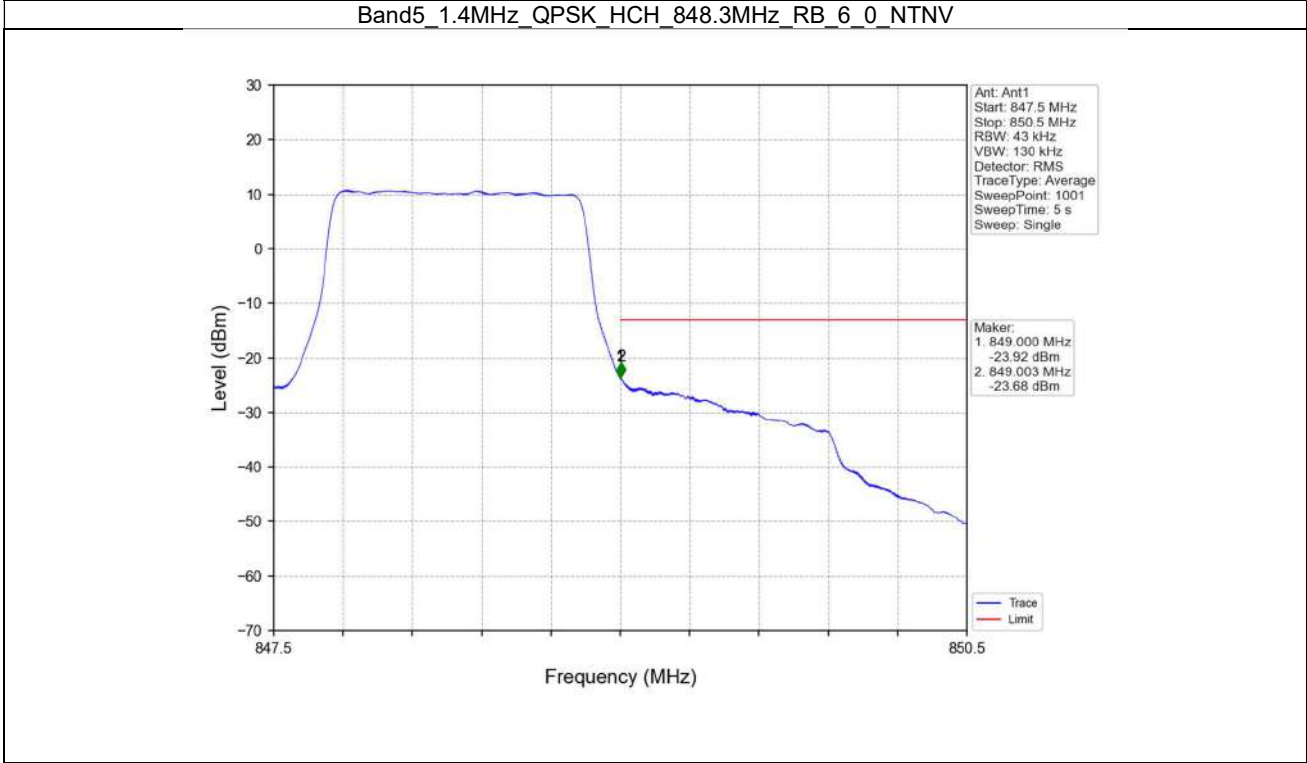


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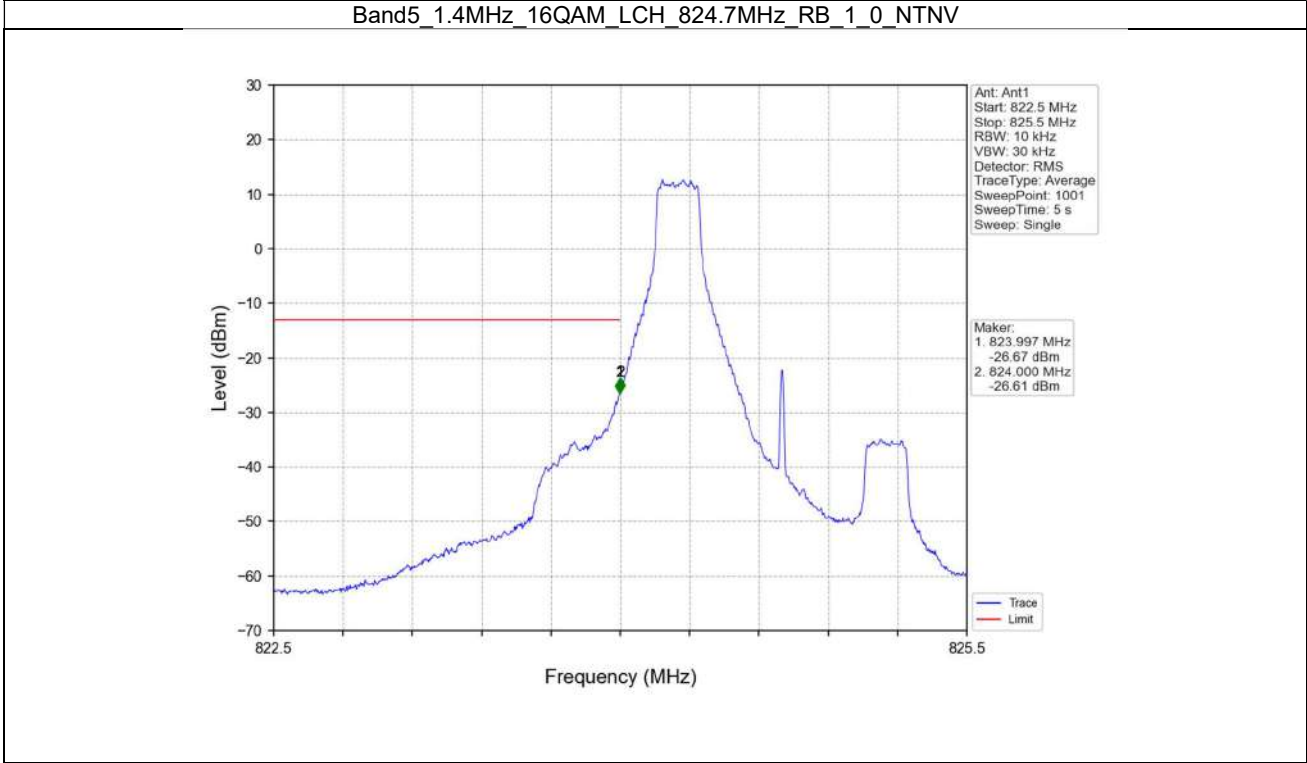
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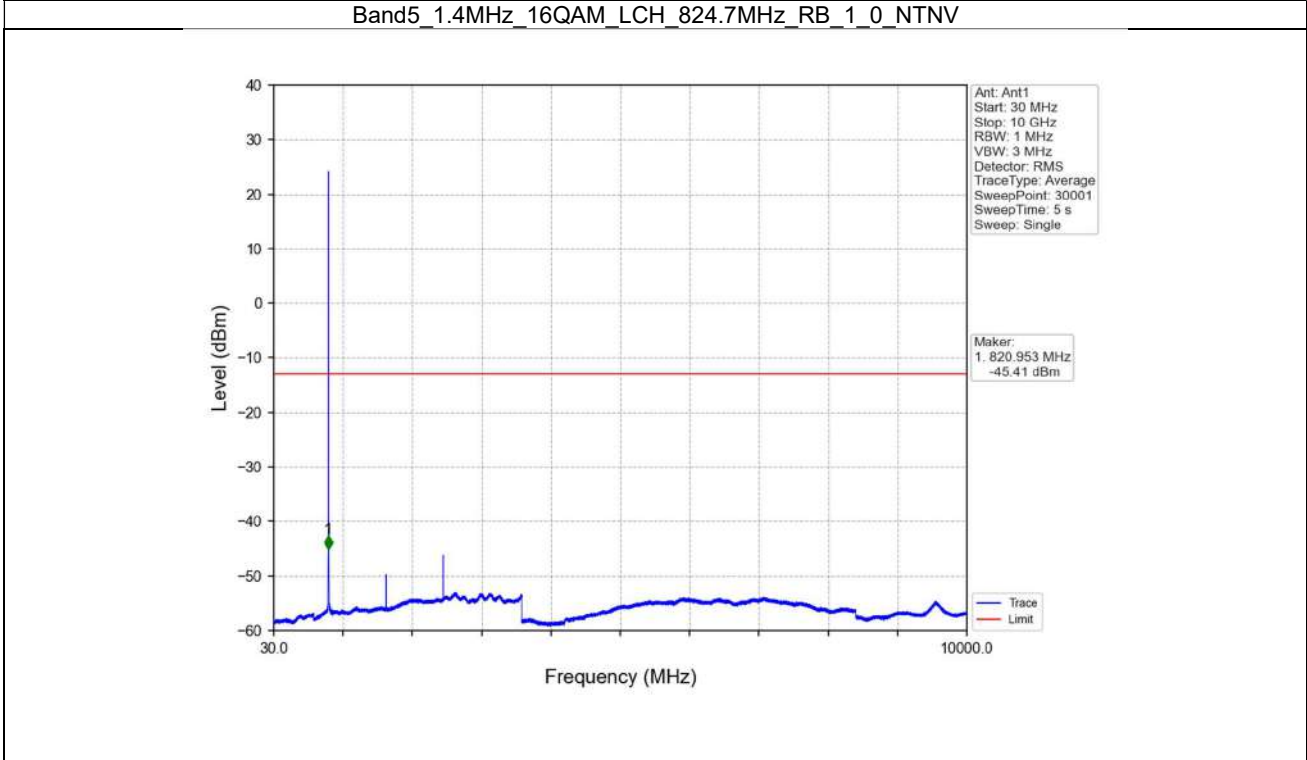
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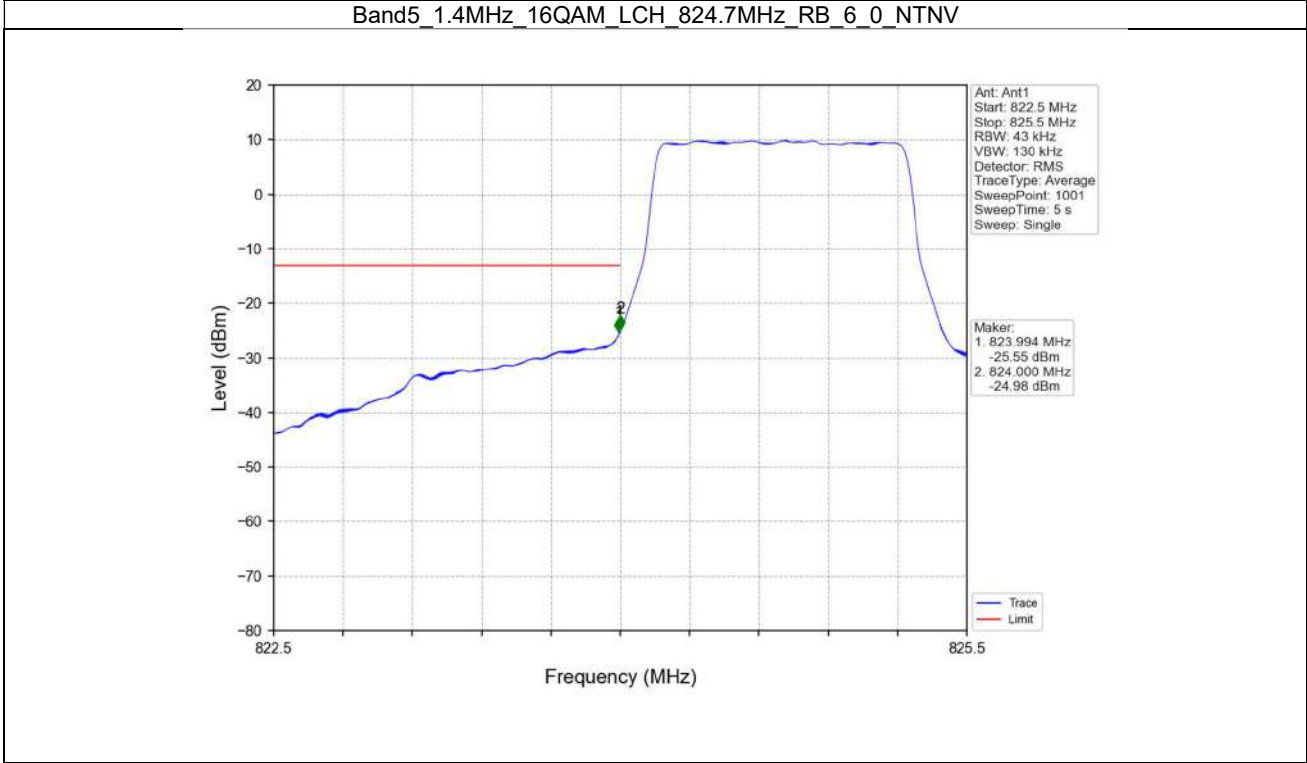


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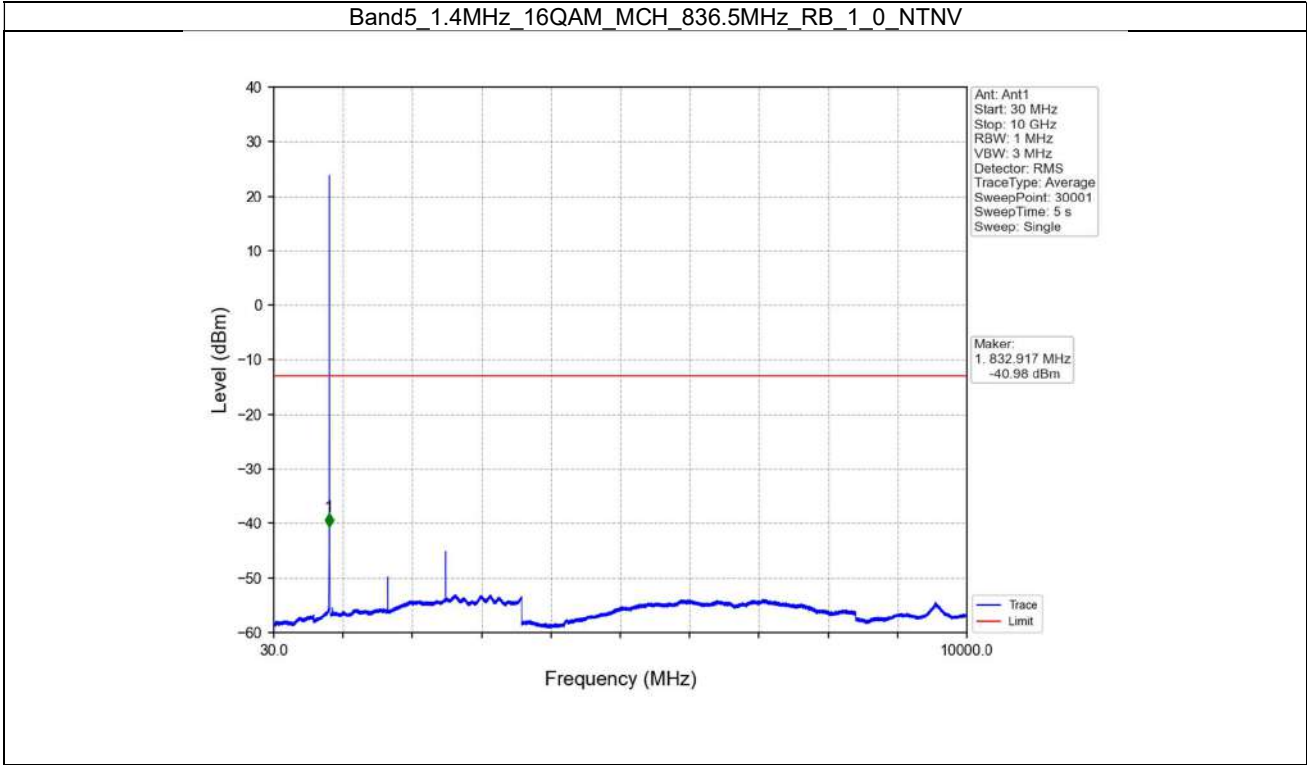
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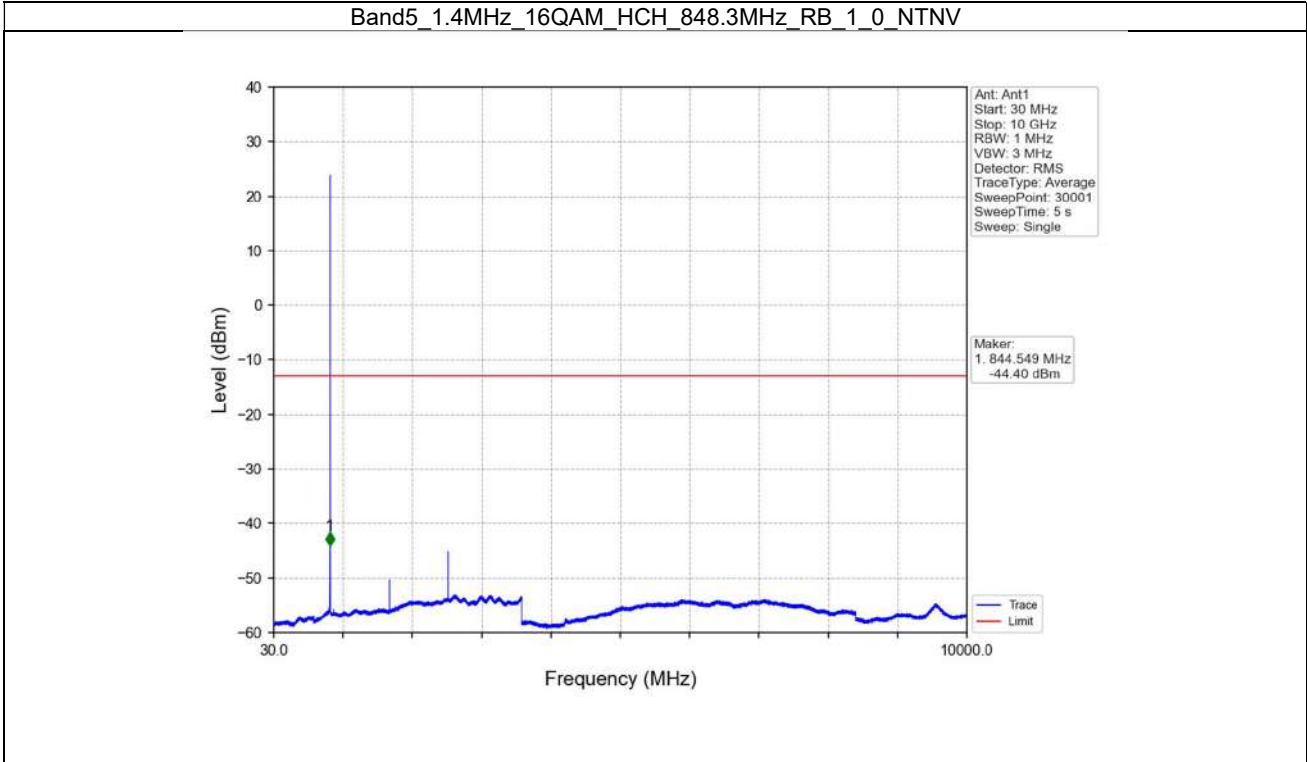
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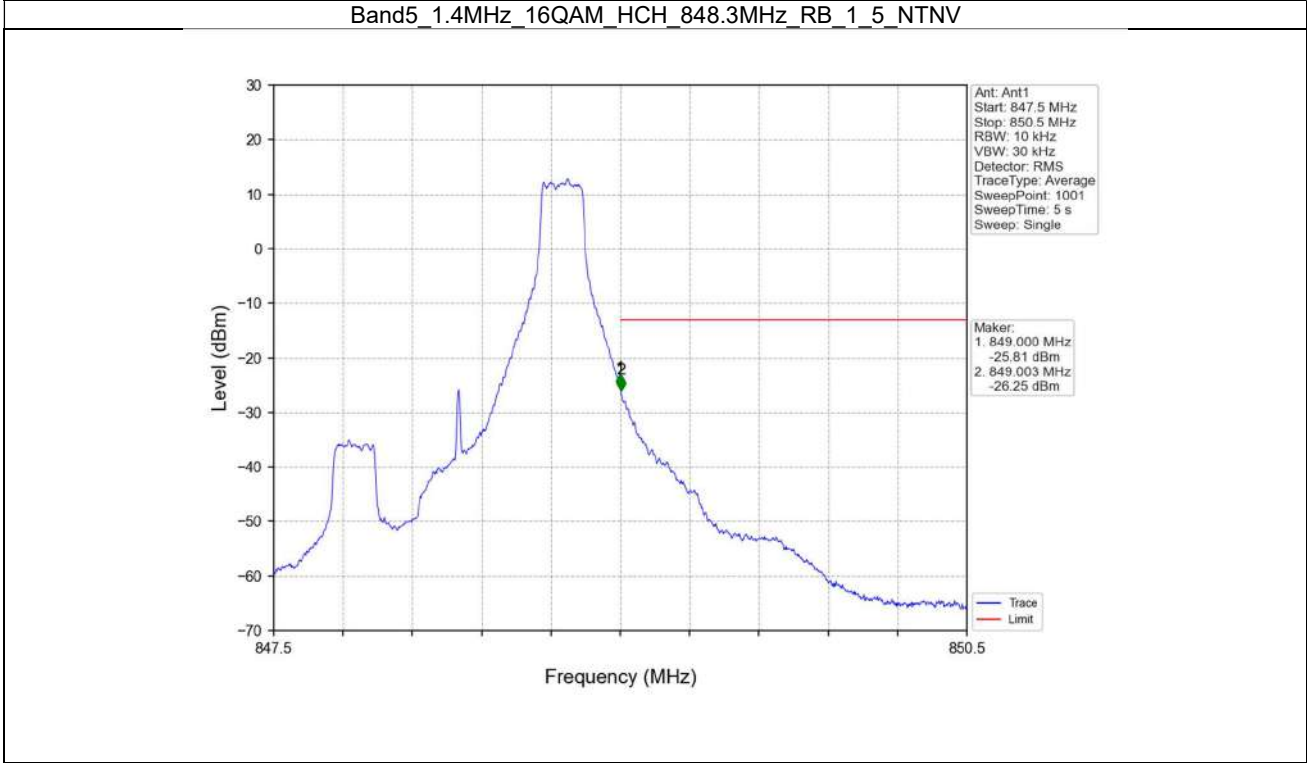


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Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



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6.2 B5_3MHz

6.2.1 Test Result

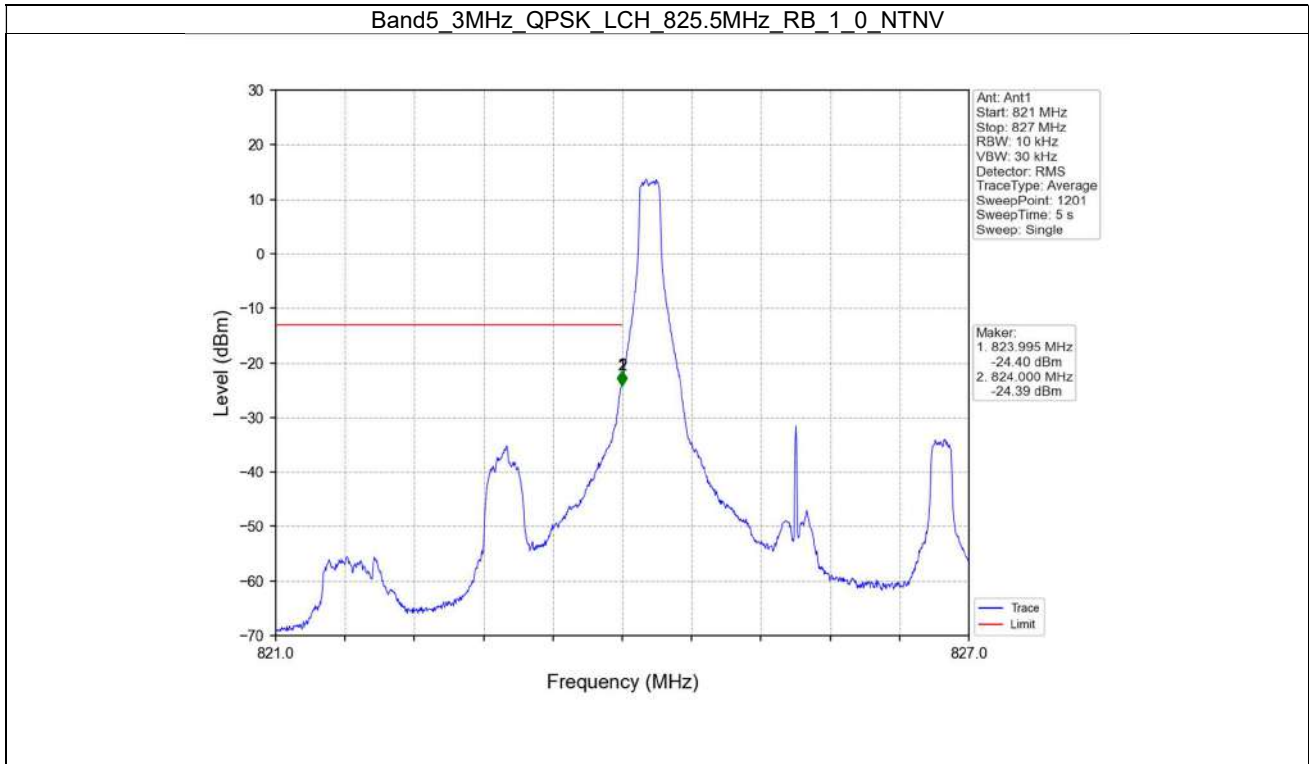
Band: 5 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph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



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6.2.2 Test Graph

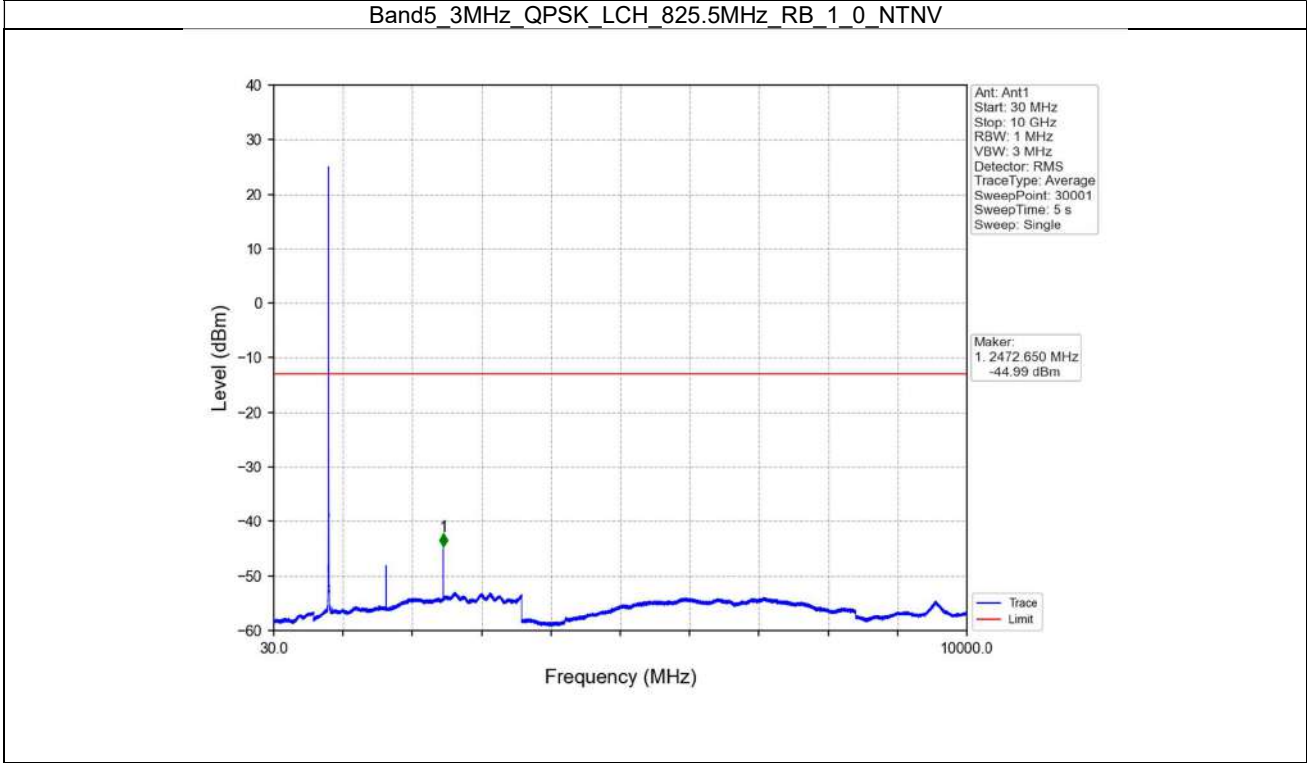


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Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

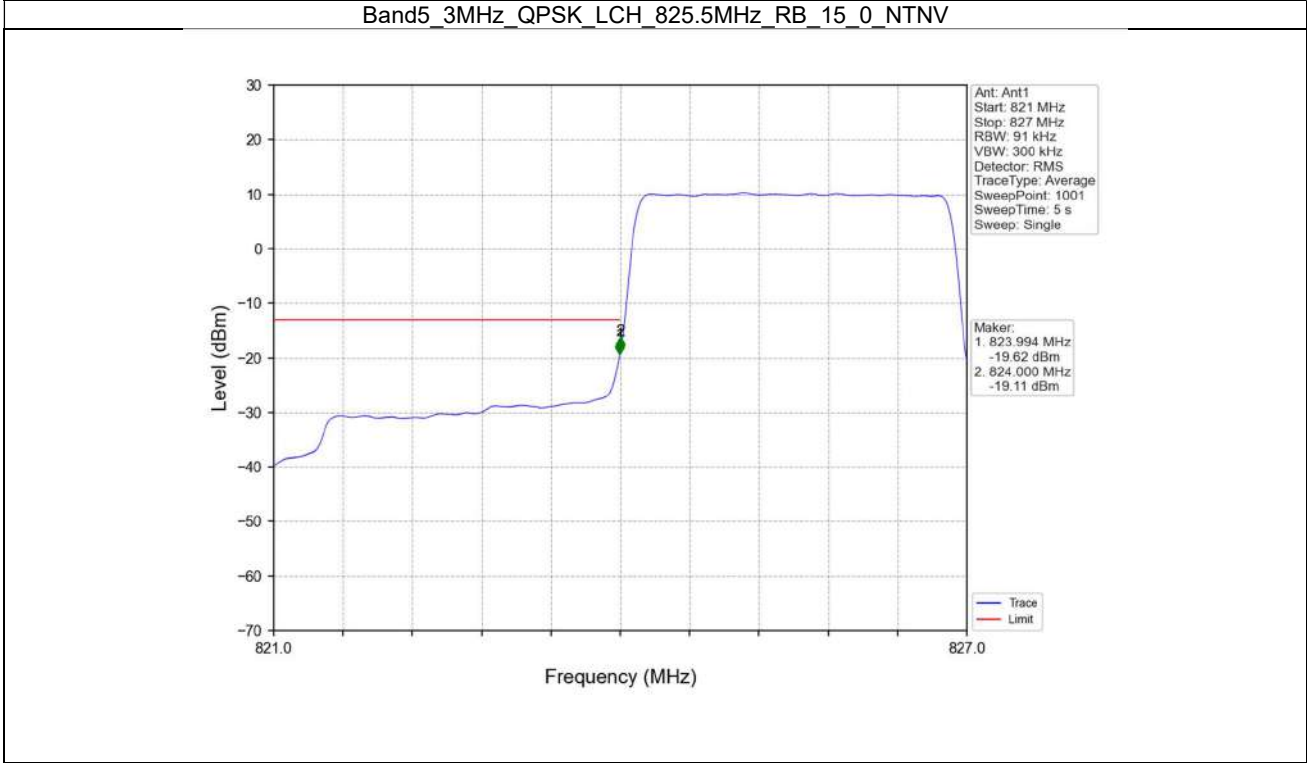


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Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

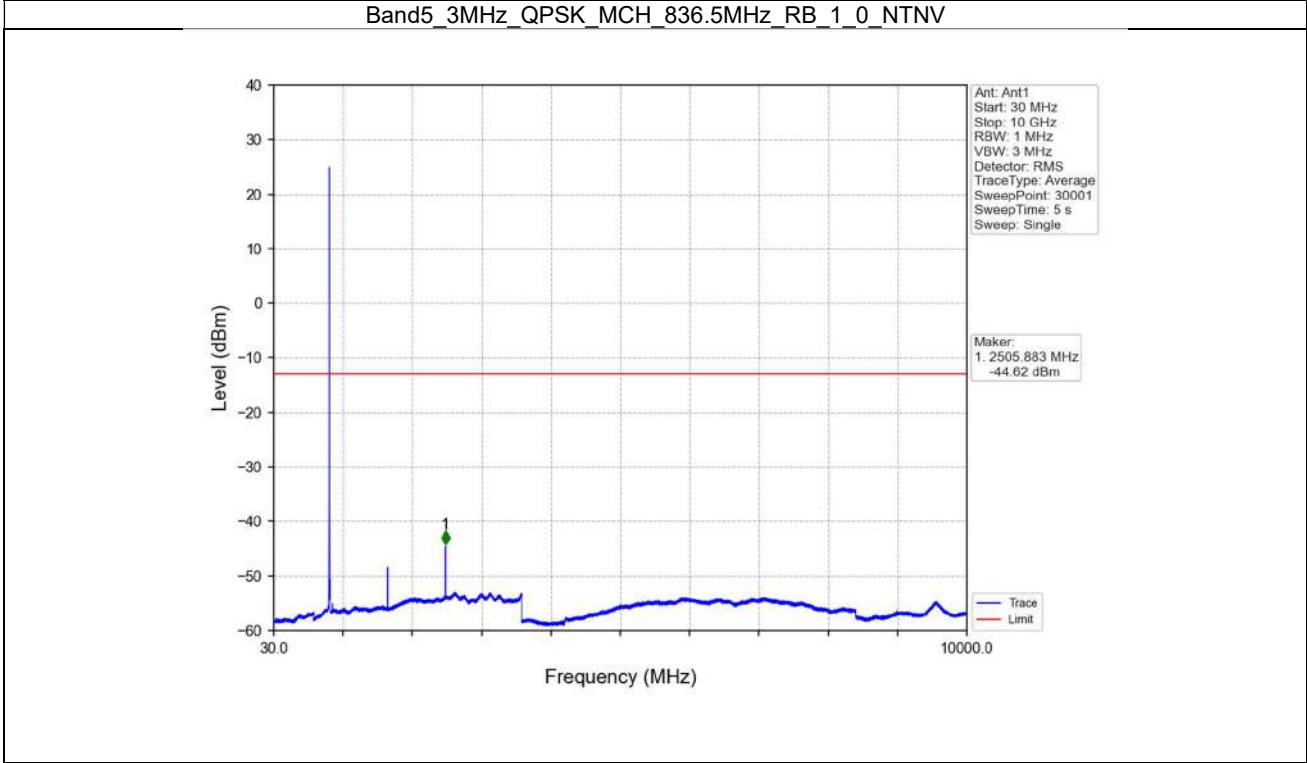


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Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV

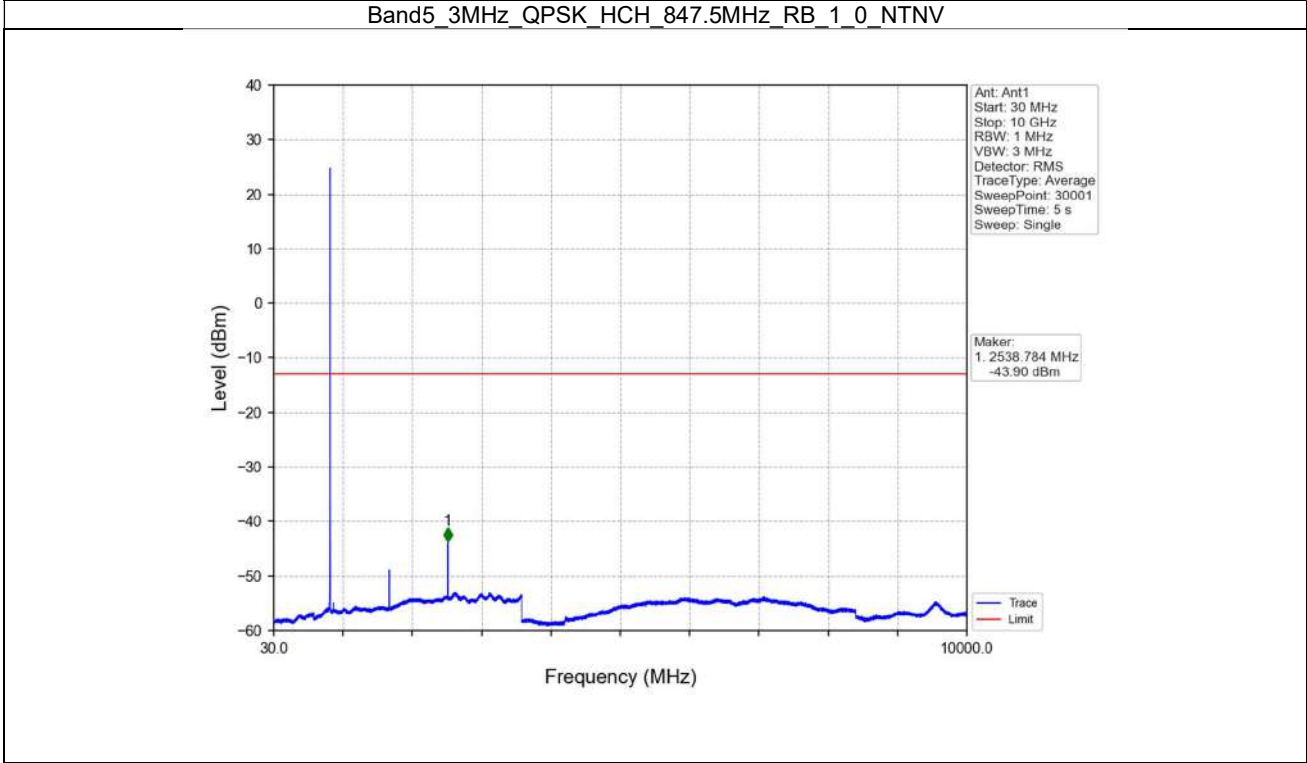


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Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV



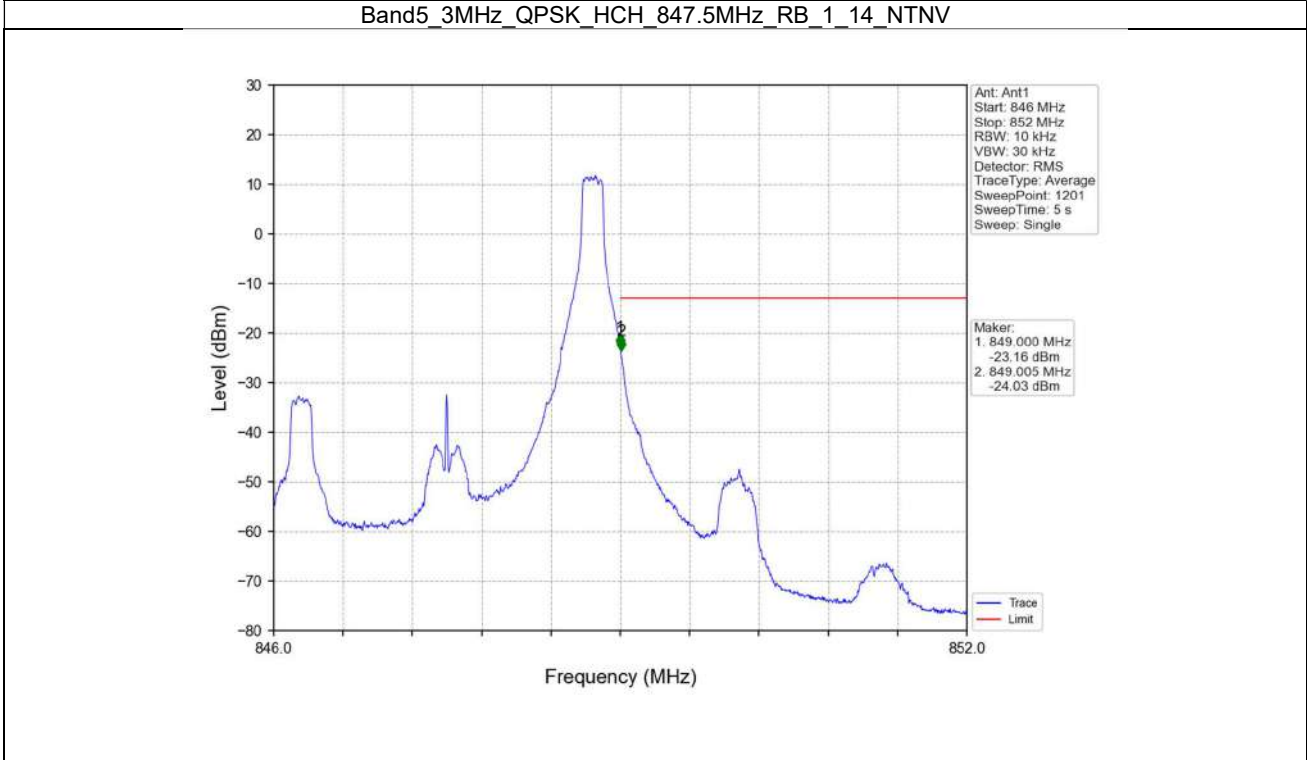
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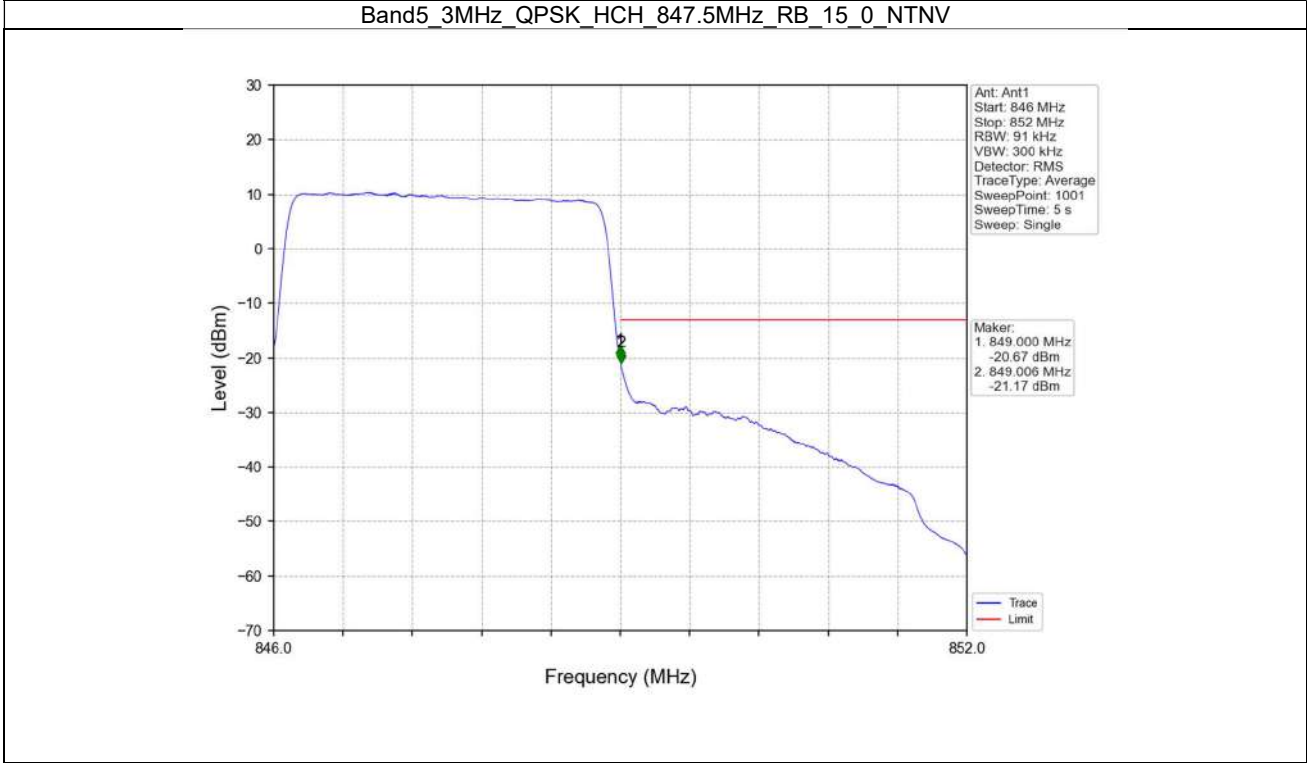


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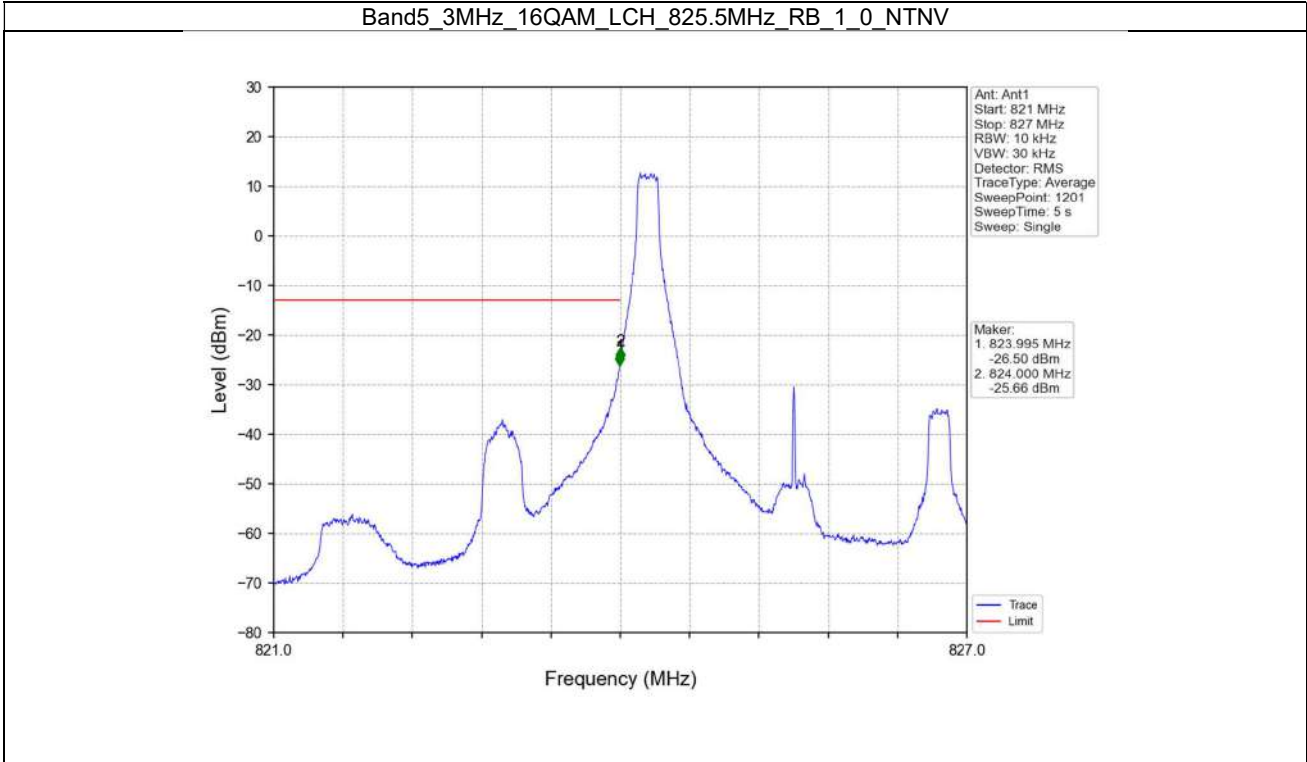
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV



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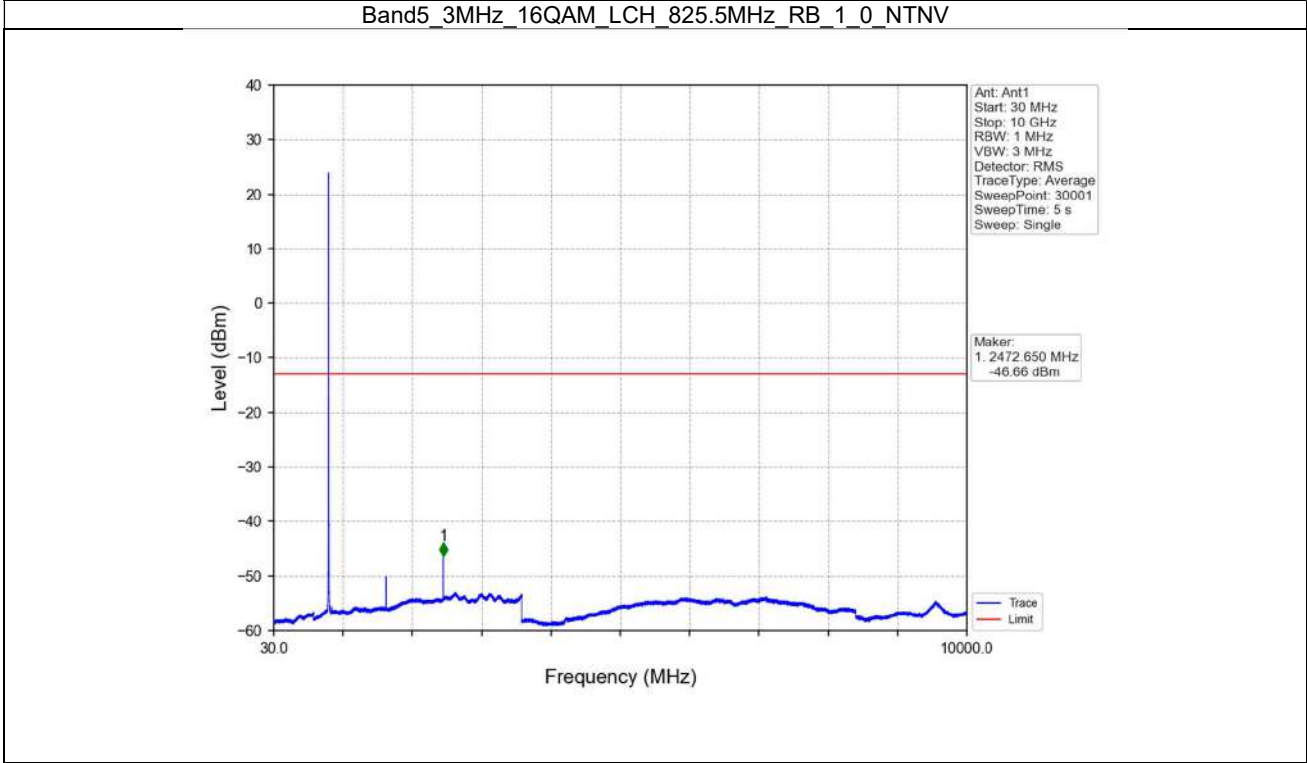
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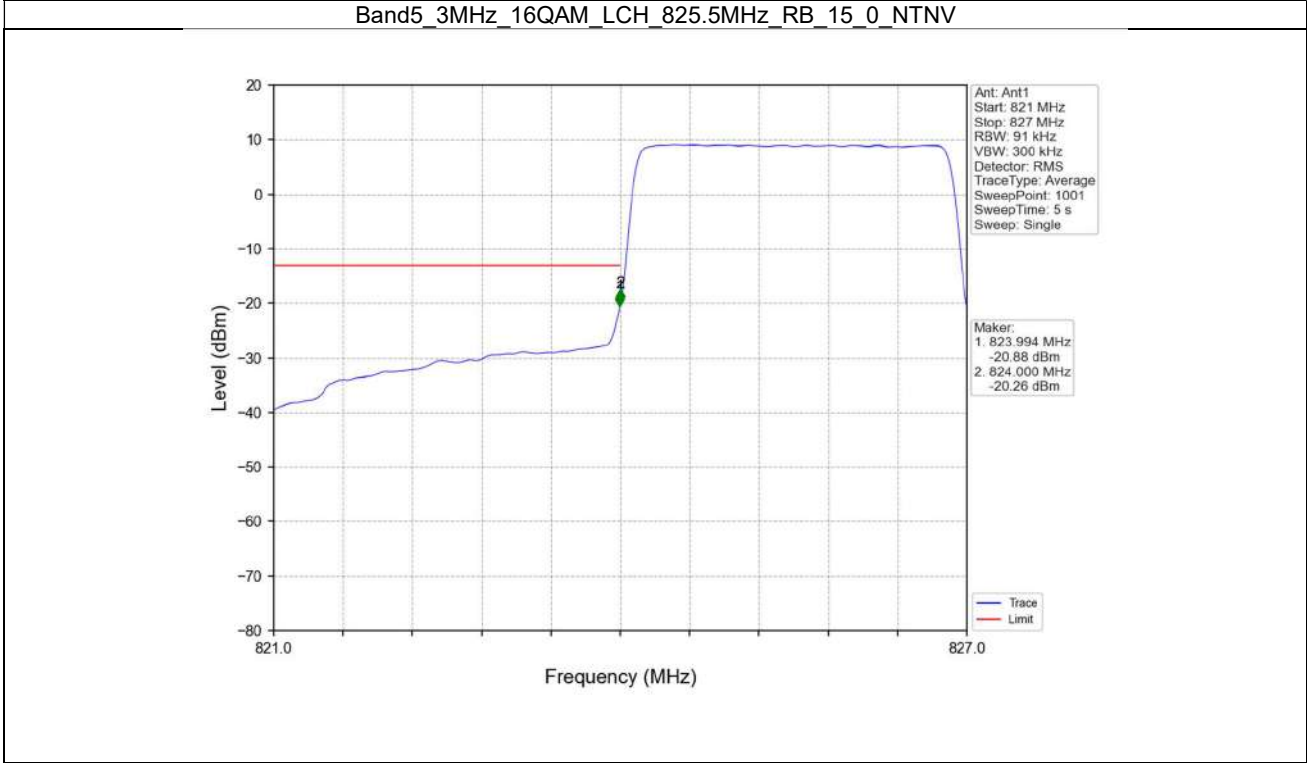


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Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV

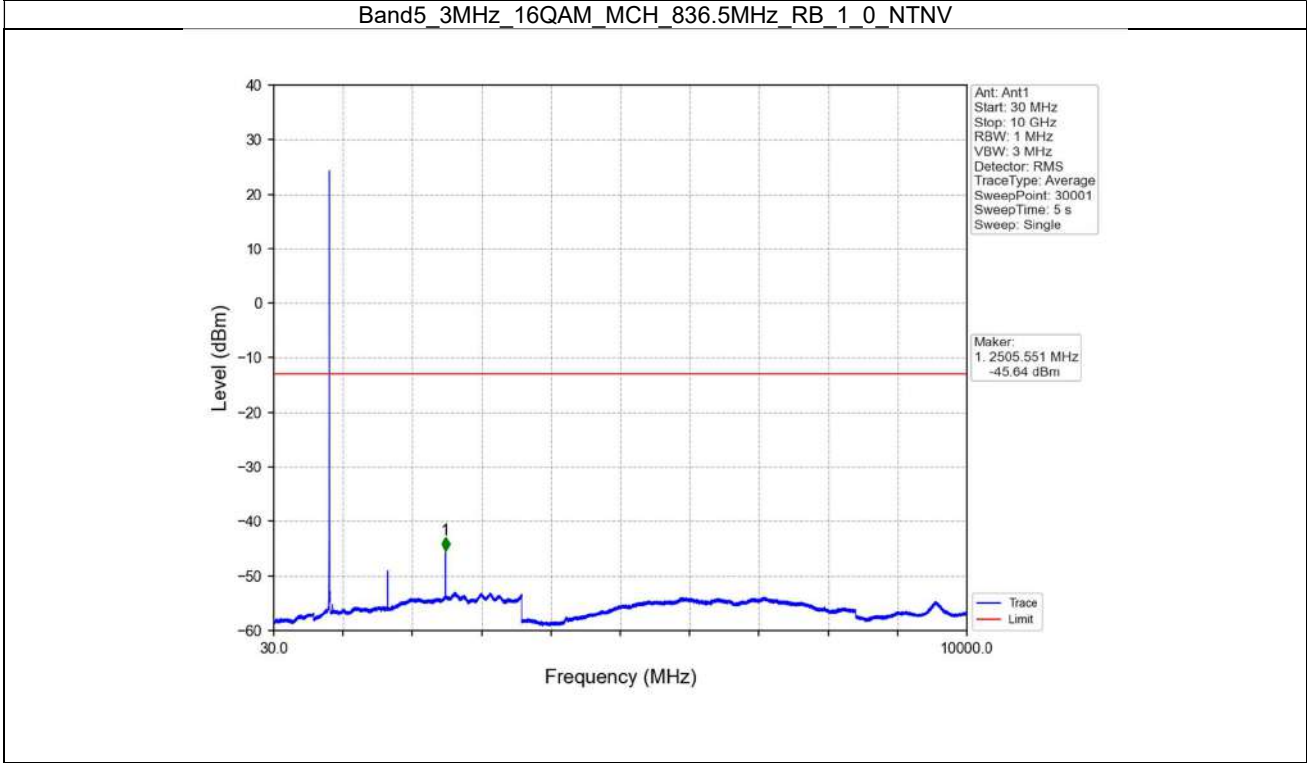


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Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



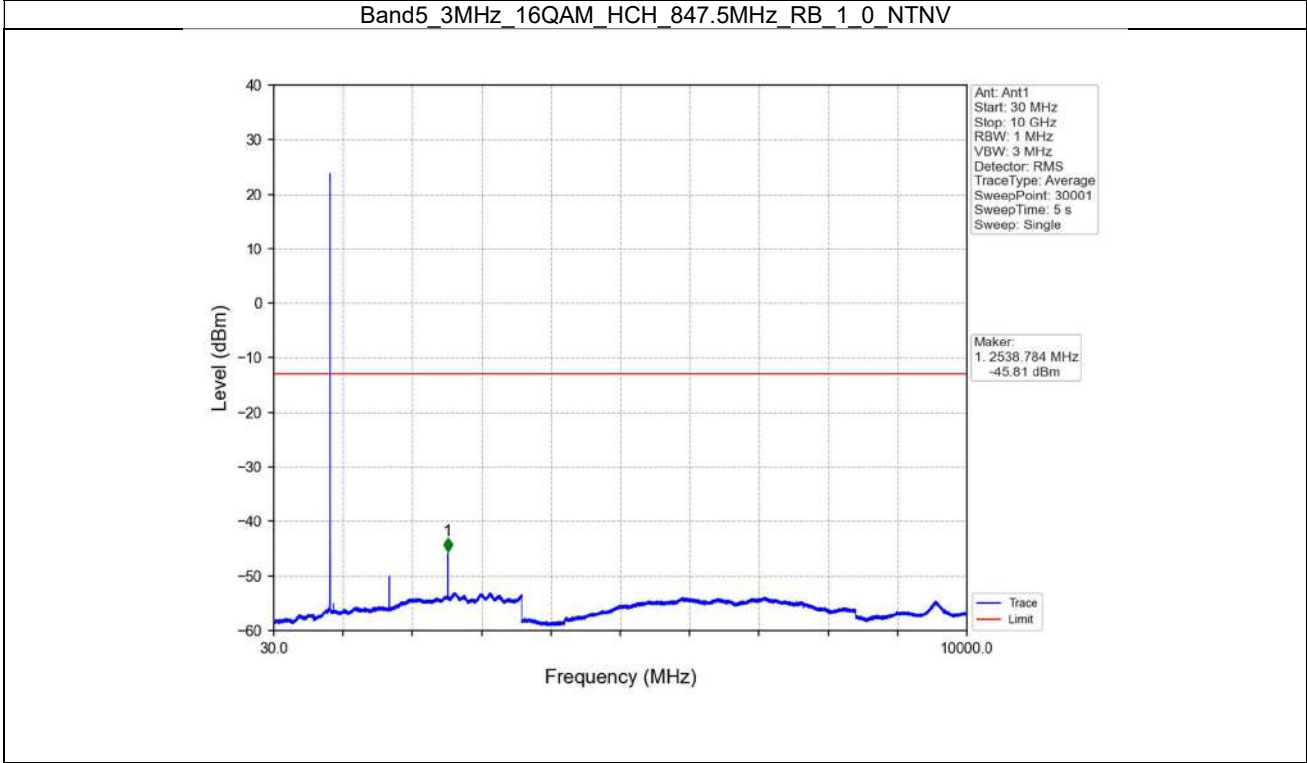
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Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_0_NTNV



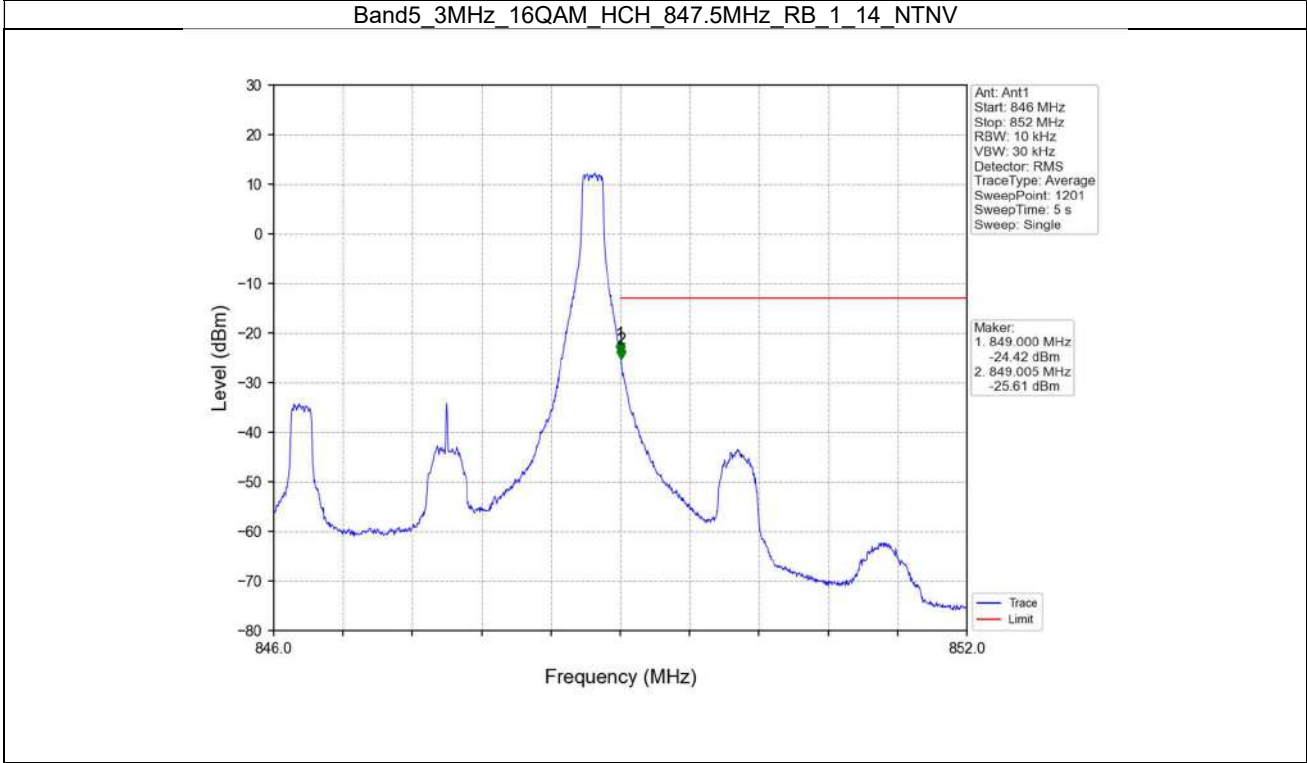
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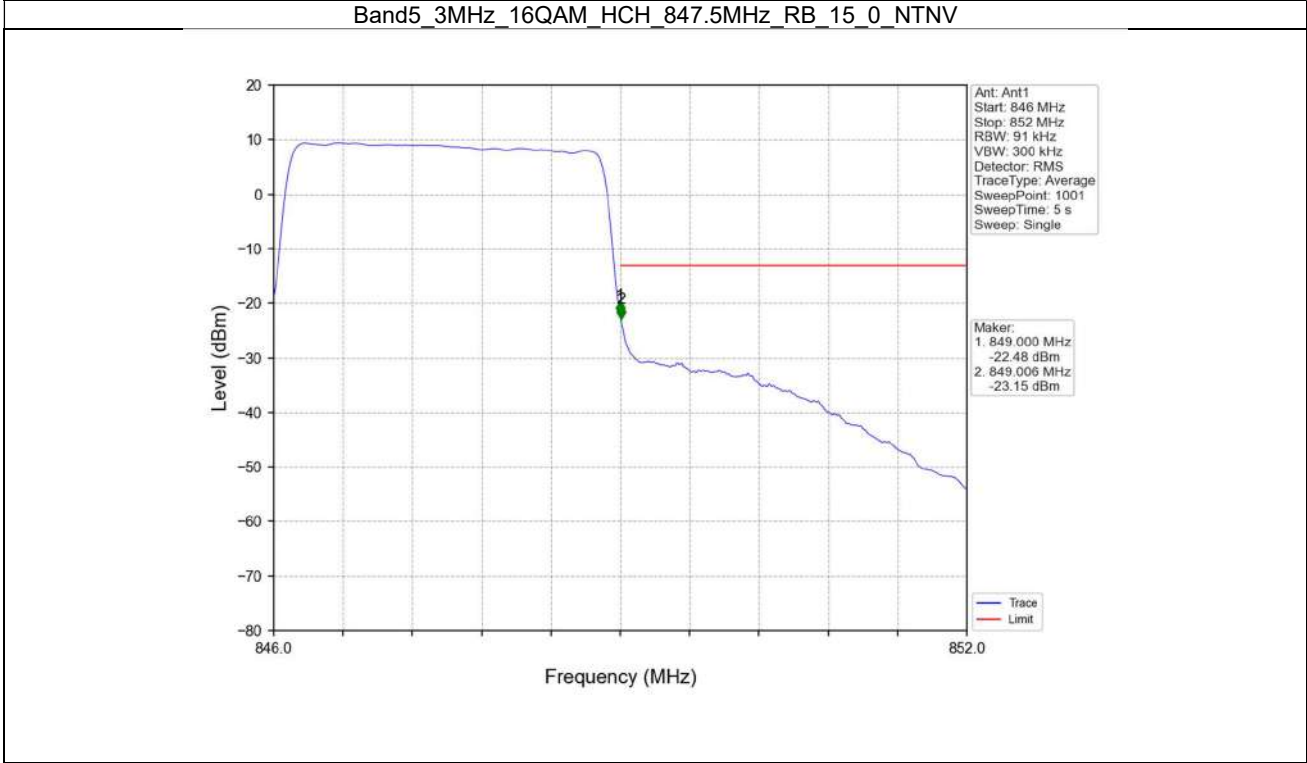


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6.3 B5_5MHz

6.3.1 Test Result

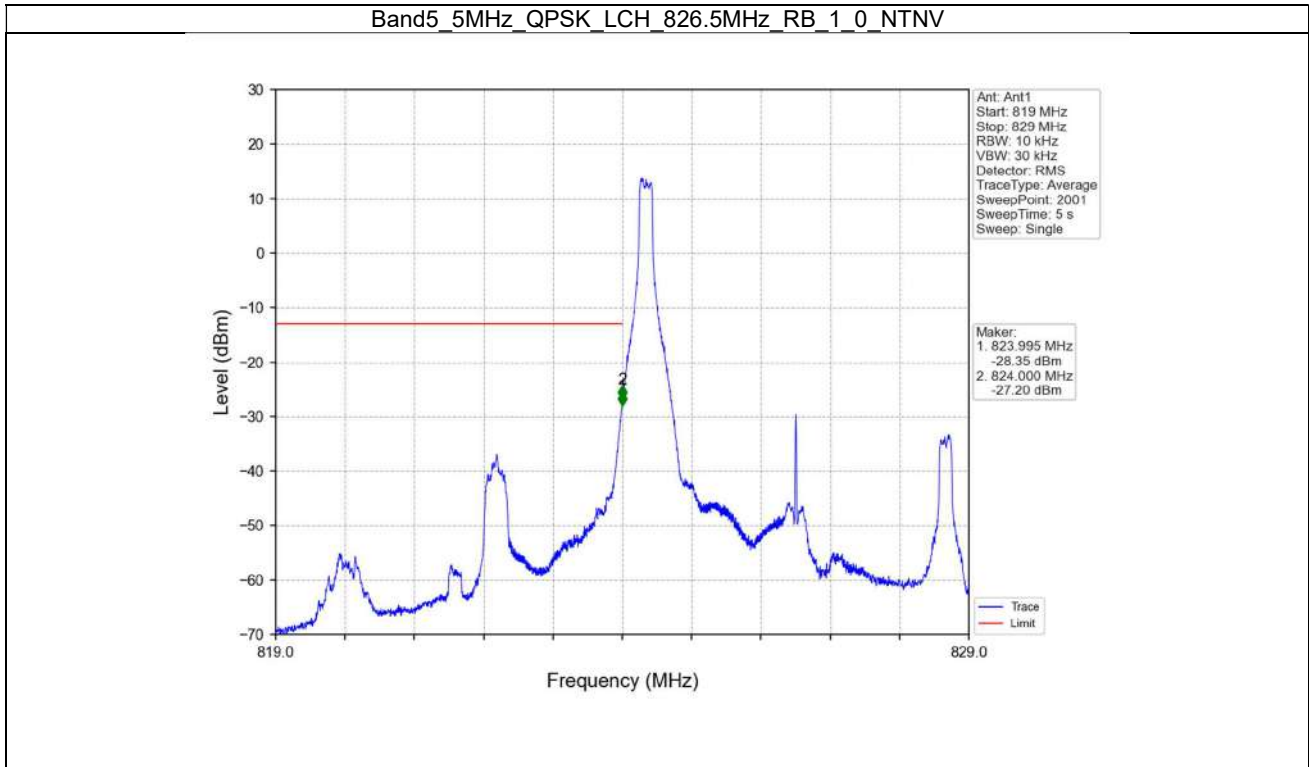
Band: 5 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph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



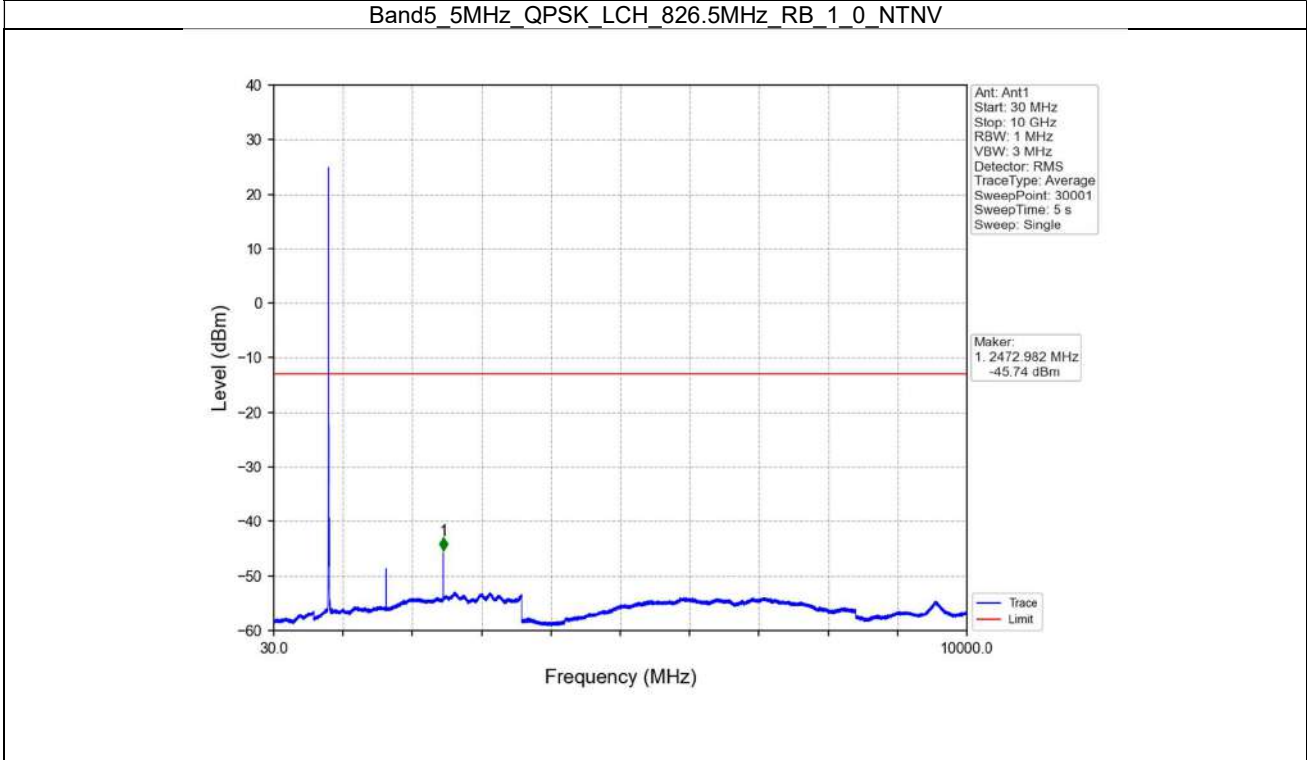
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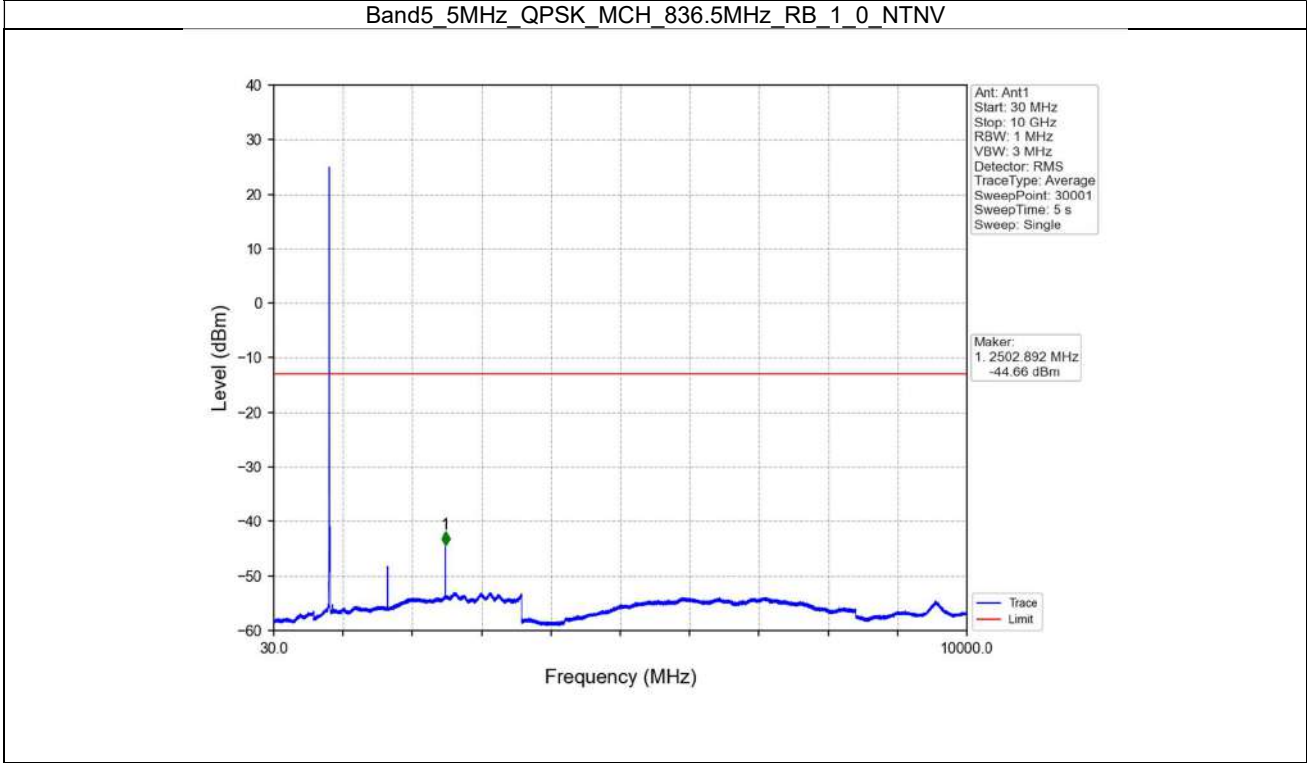


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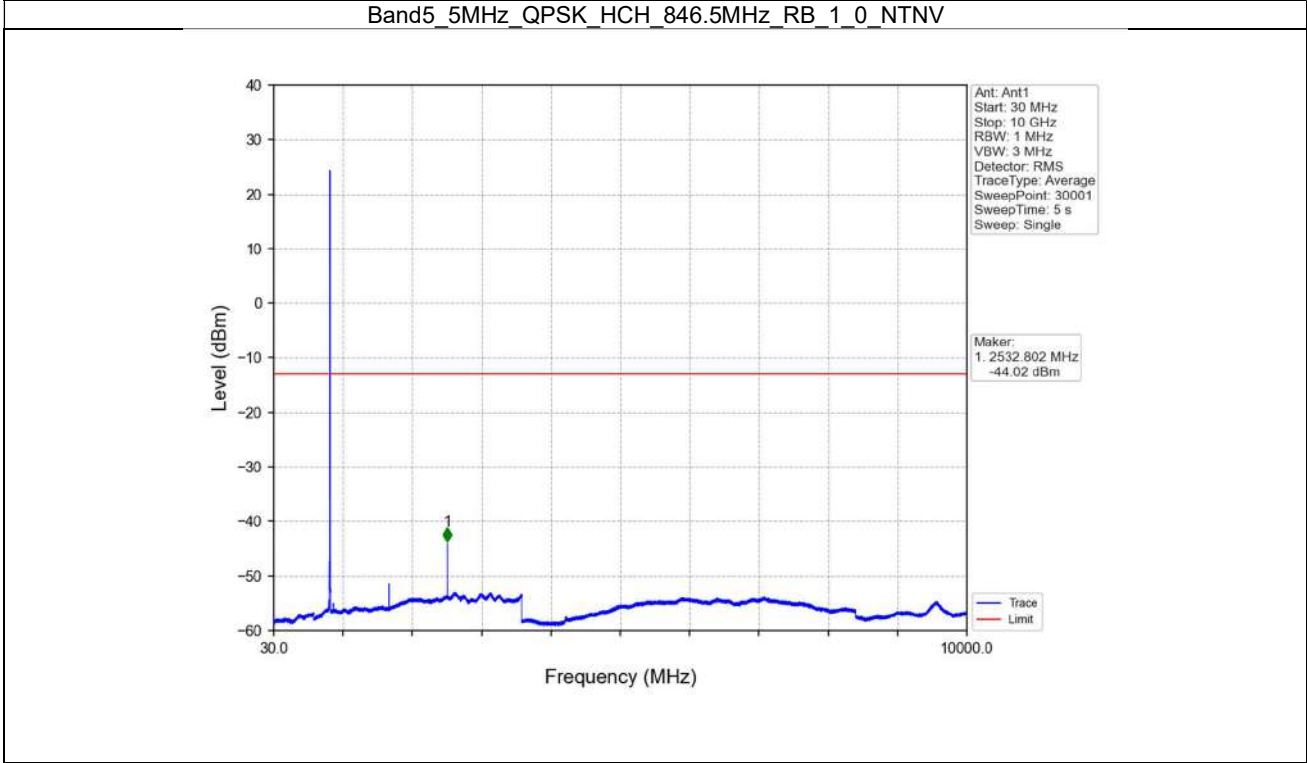


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Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV



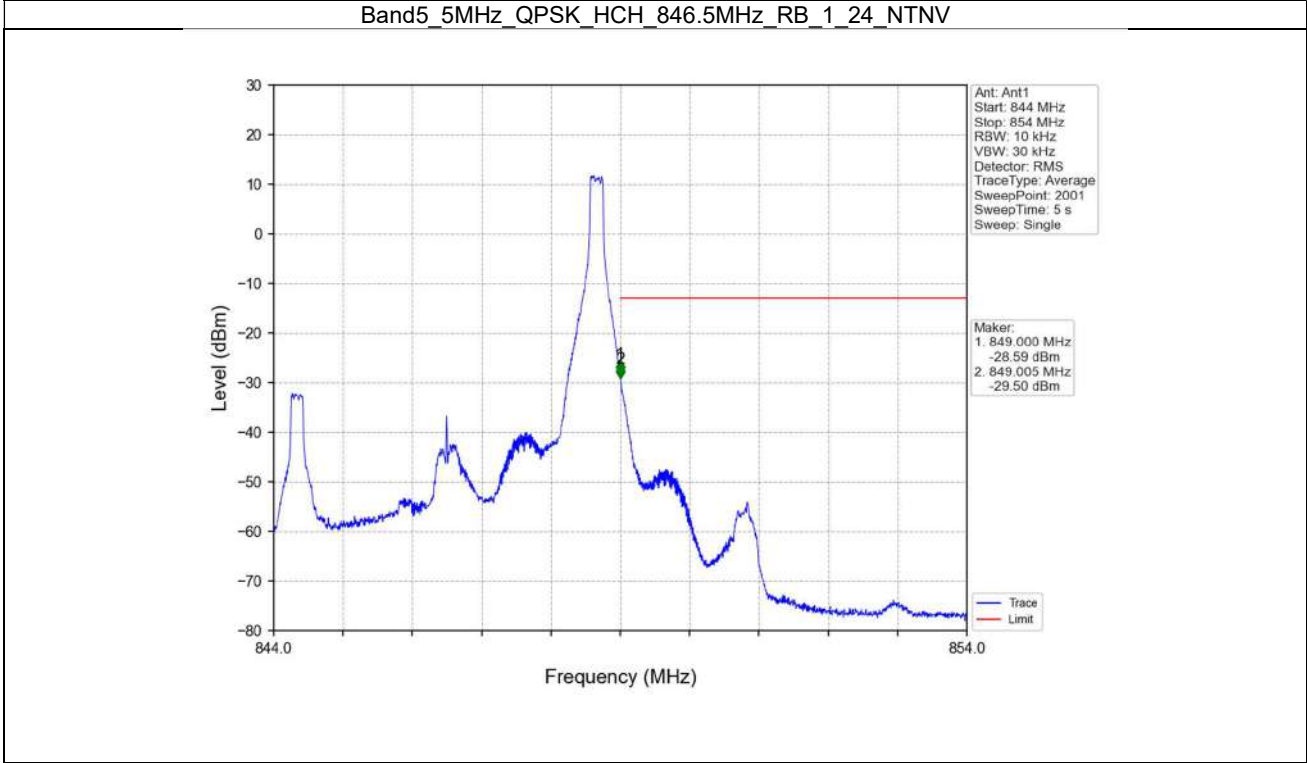
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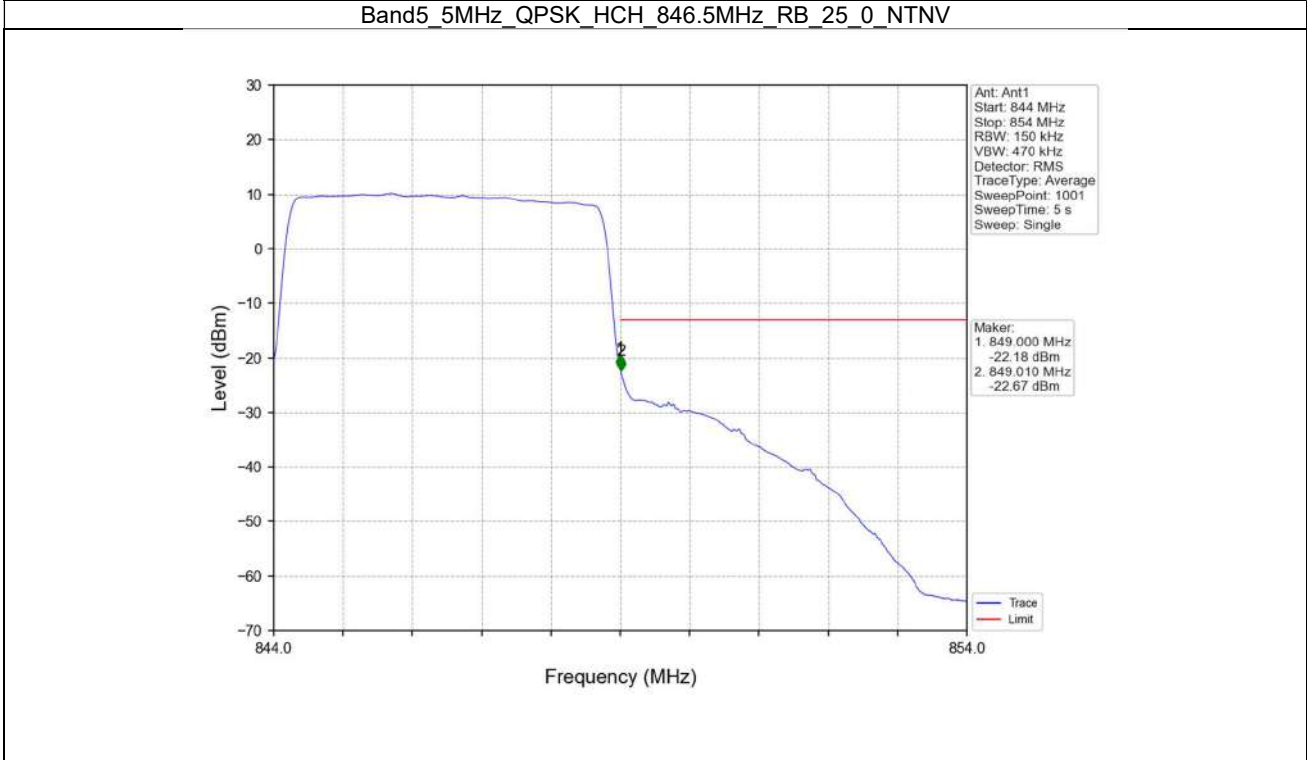


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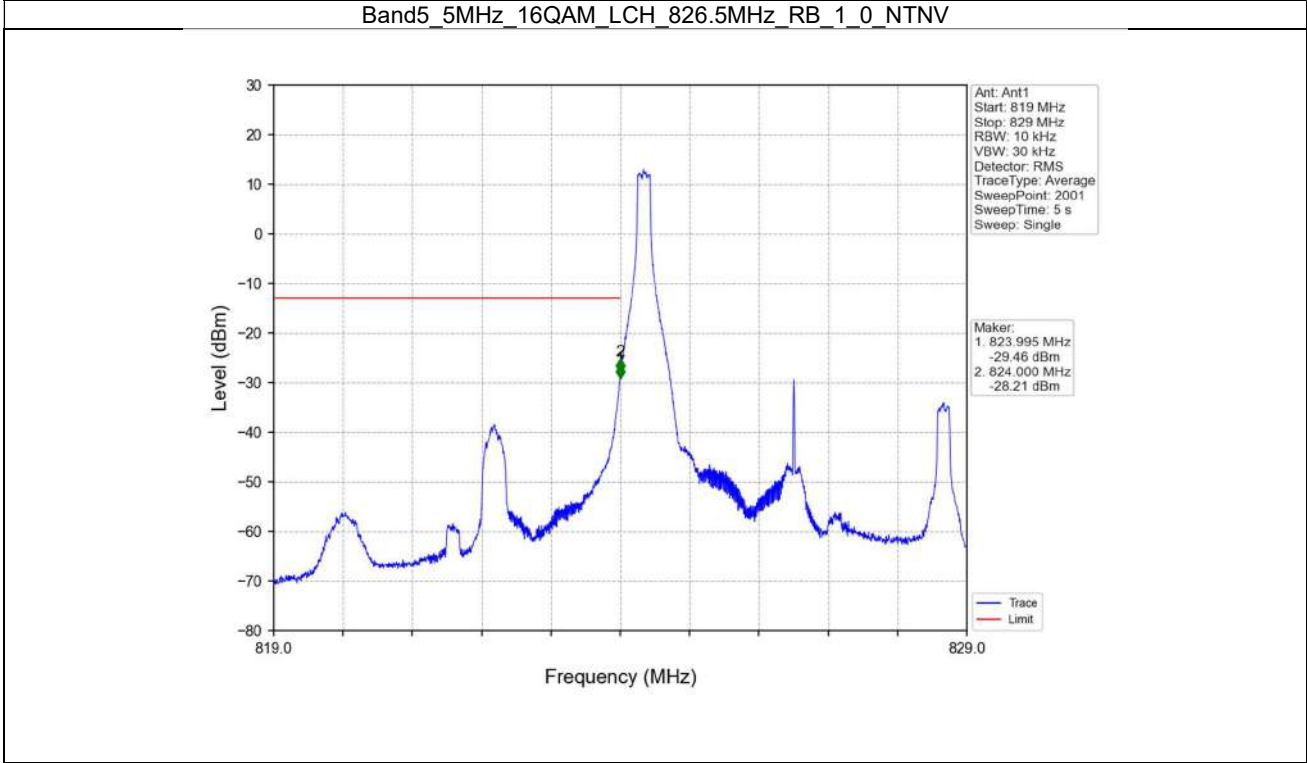
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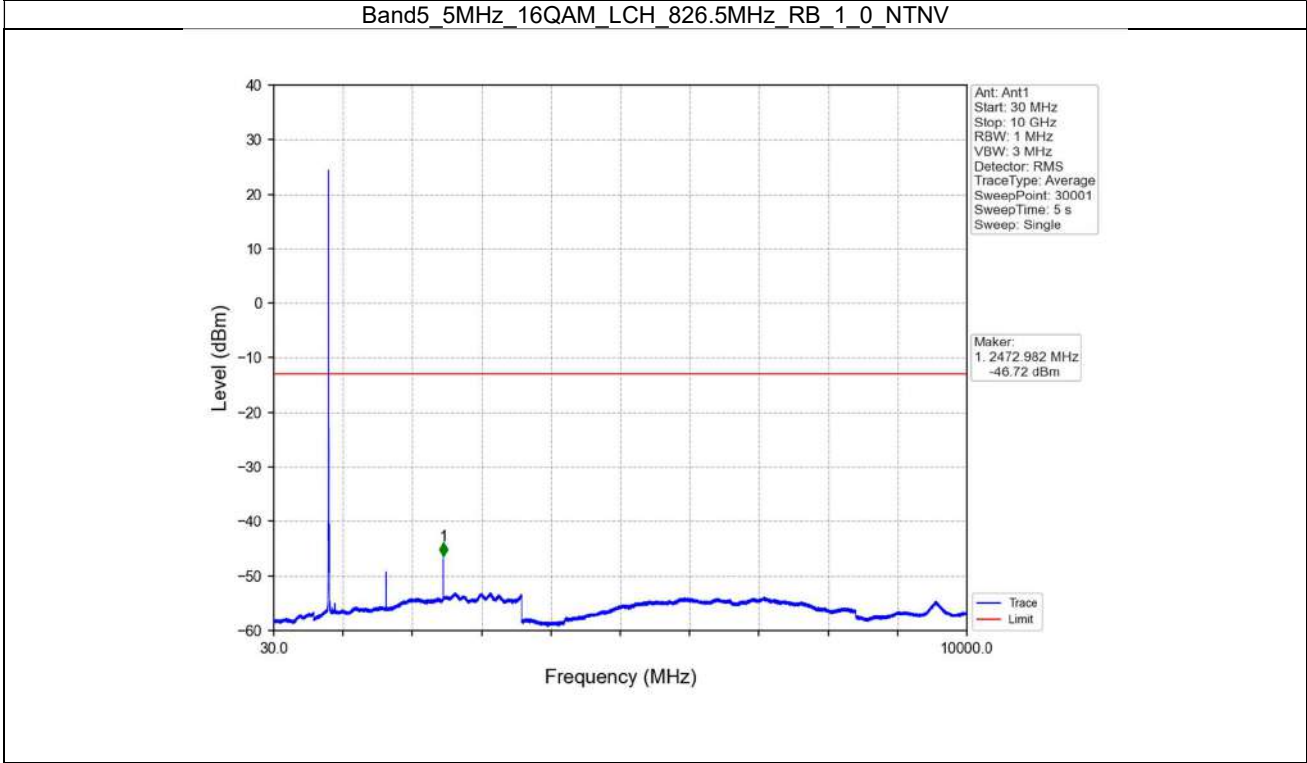


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Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

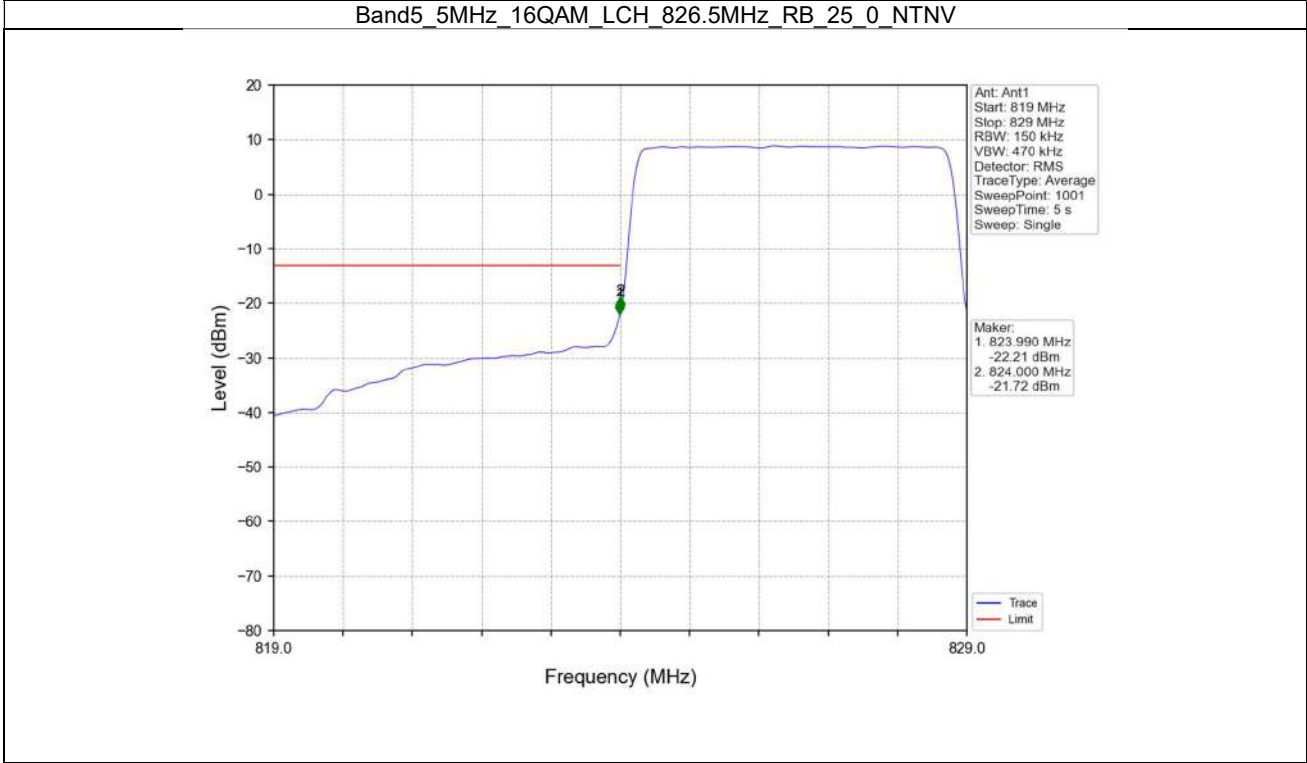


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Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



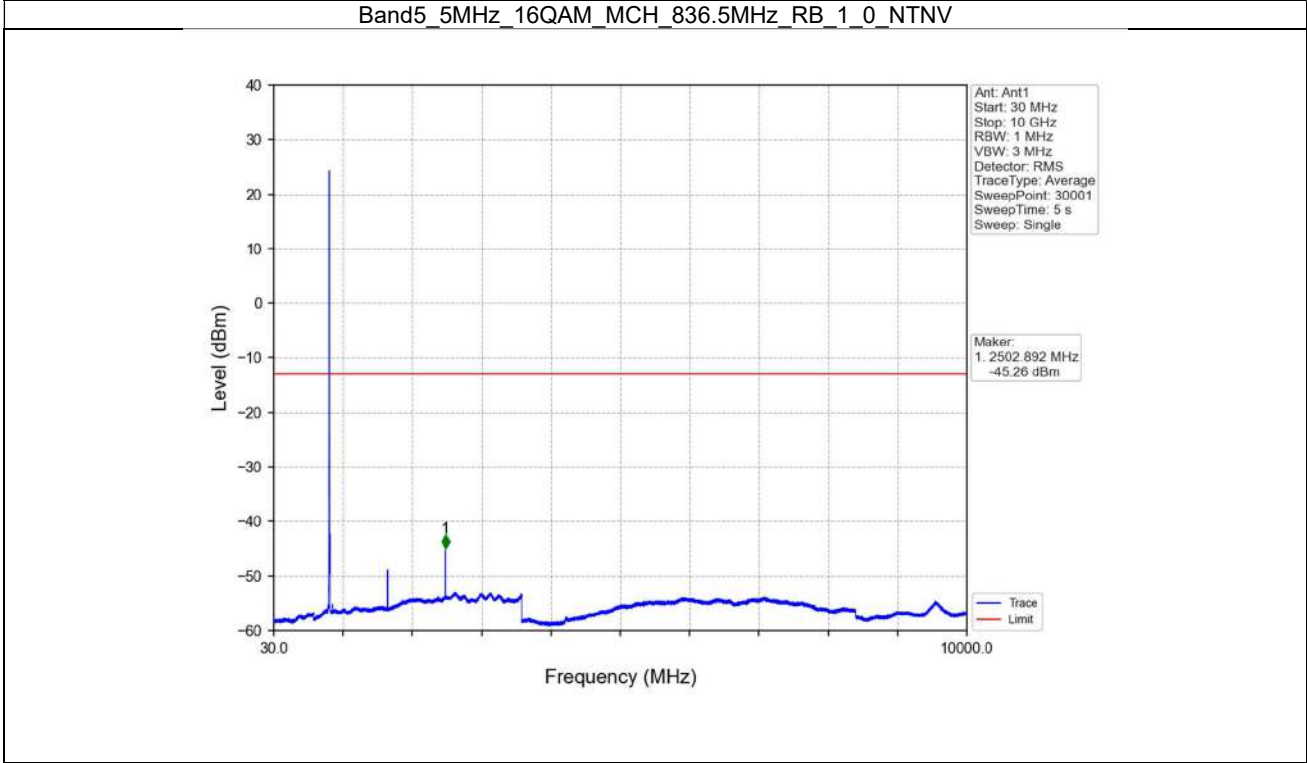
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Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



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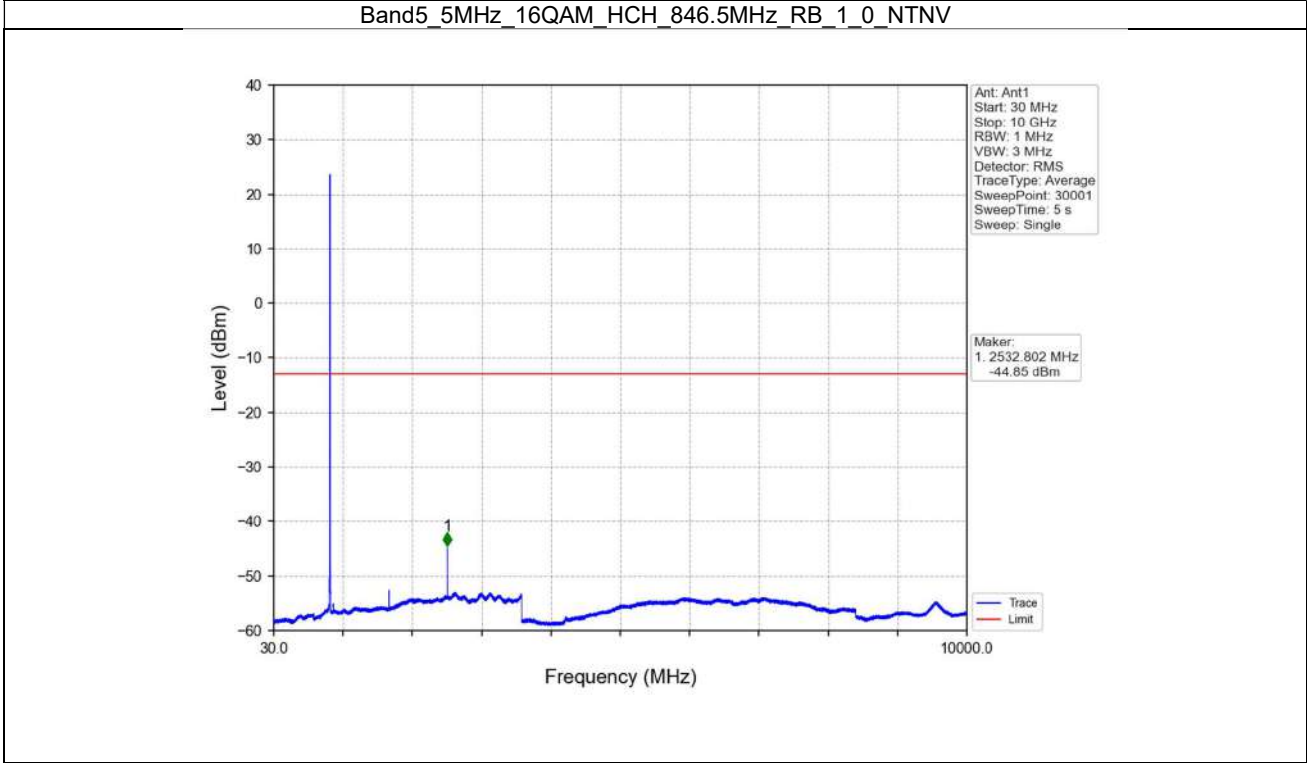
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Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV

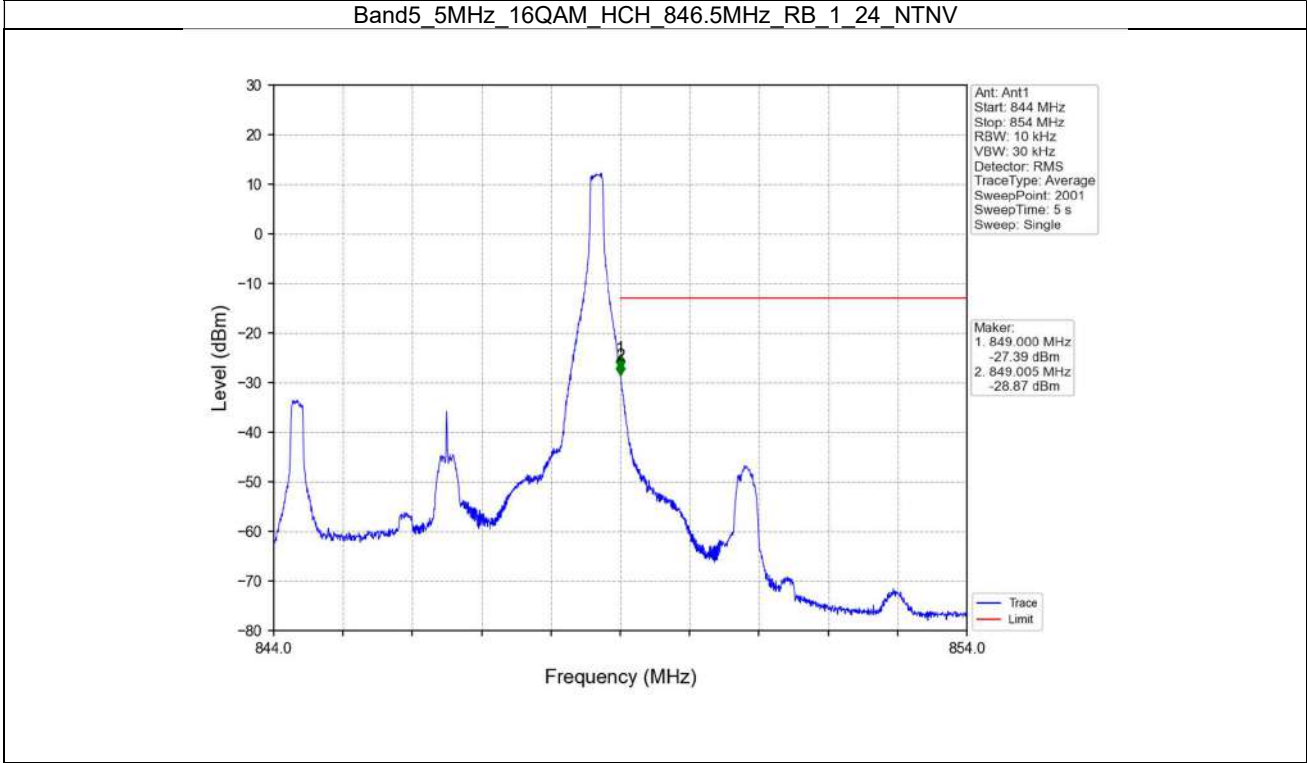


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Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV

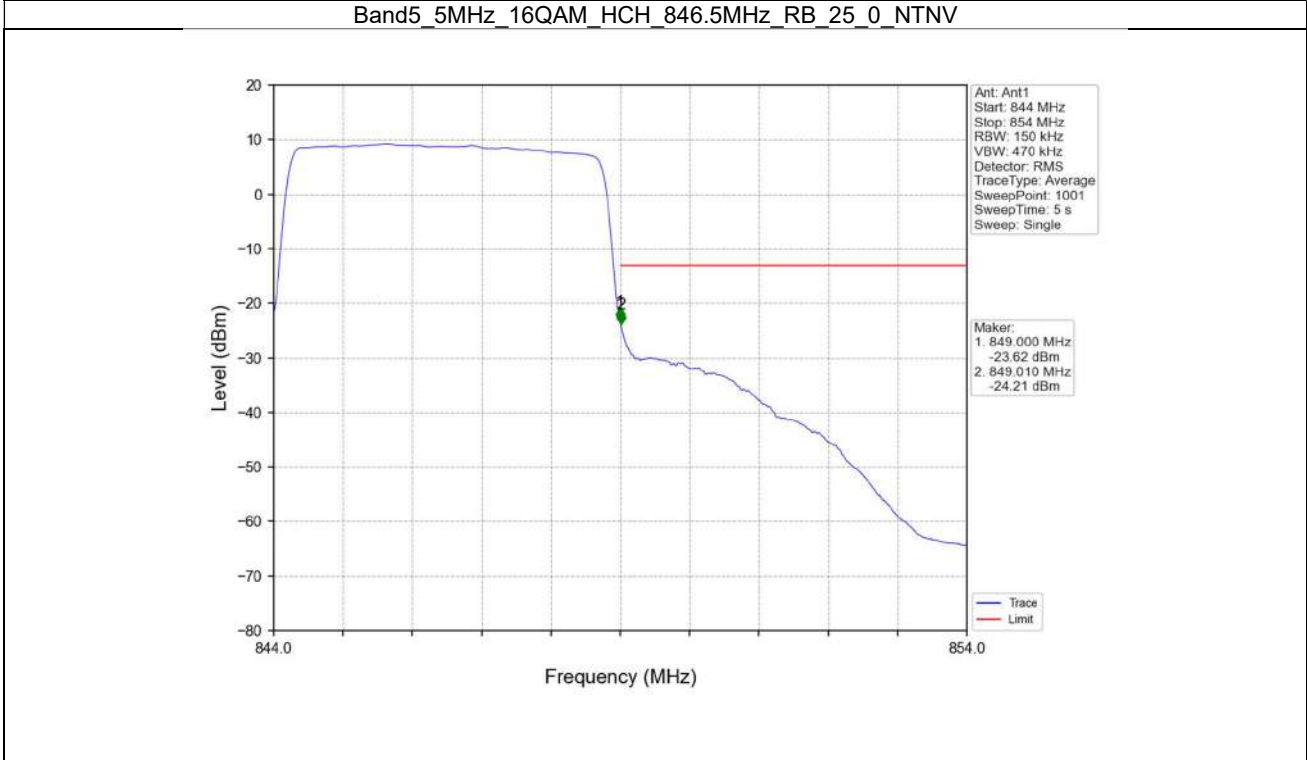


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Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



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6.4 B5_10MHz

6.4.1 Test Result

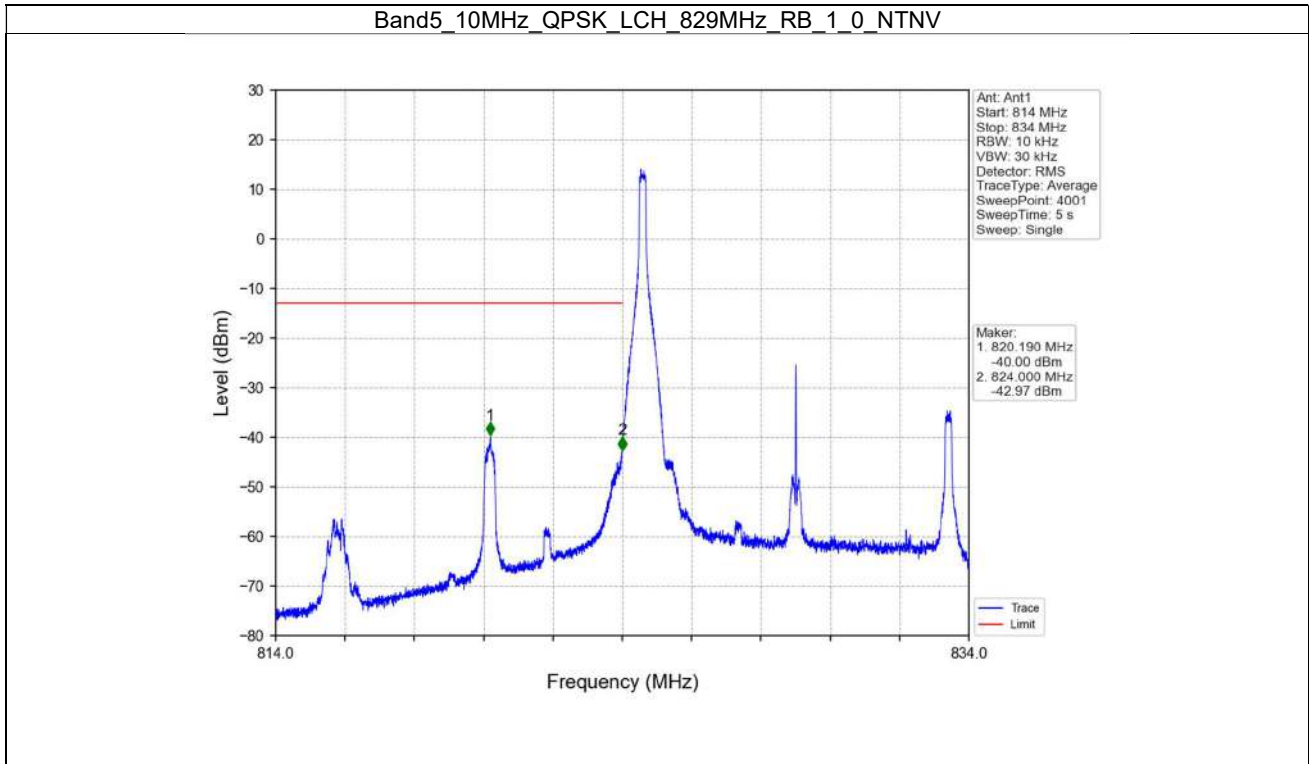
Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	844		1	49	Refer To Test Graph	
		50	0	Refer To Test Graph		Pass



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6.4.2 Test Graph

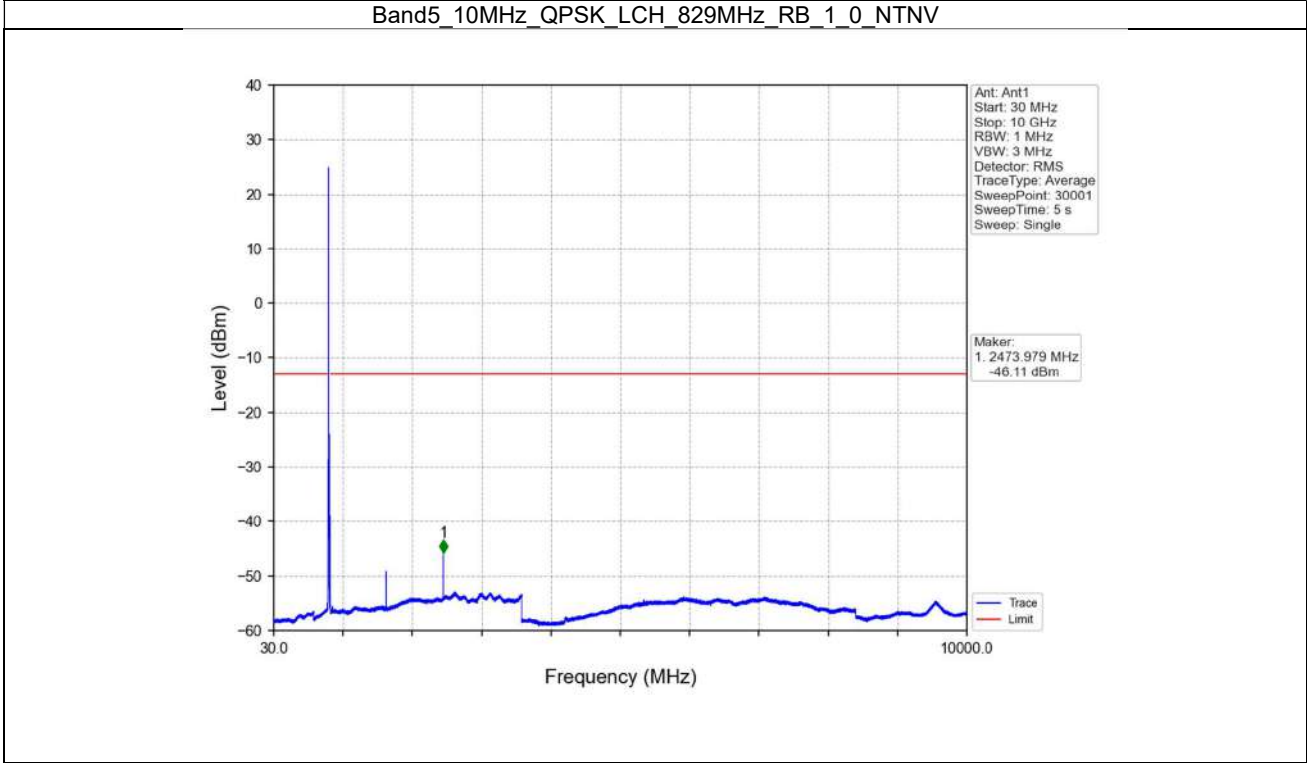


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Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

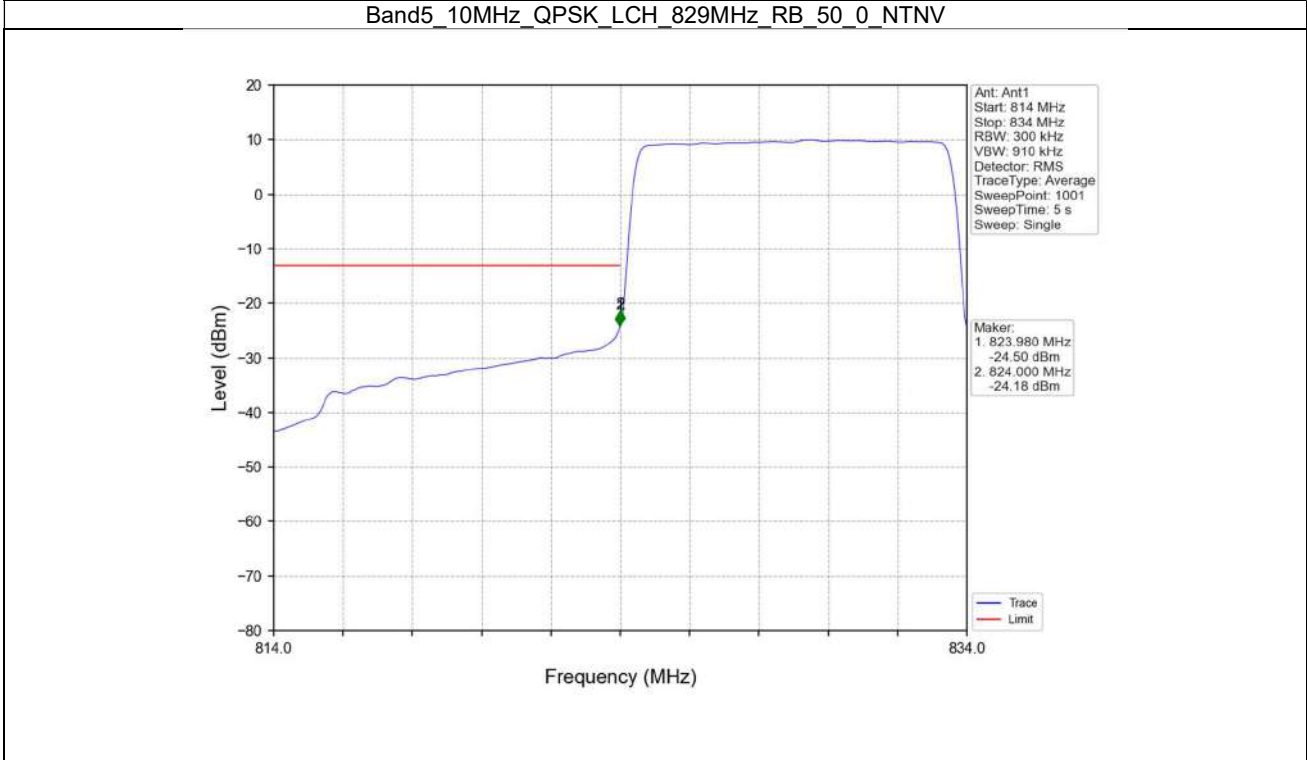


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Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



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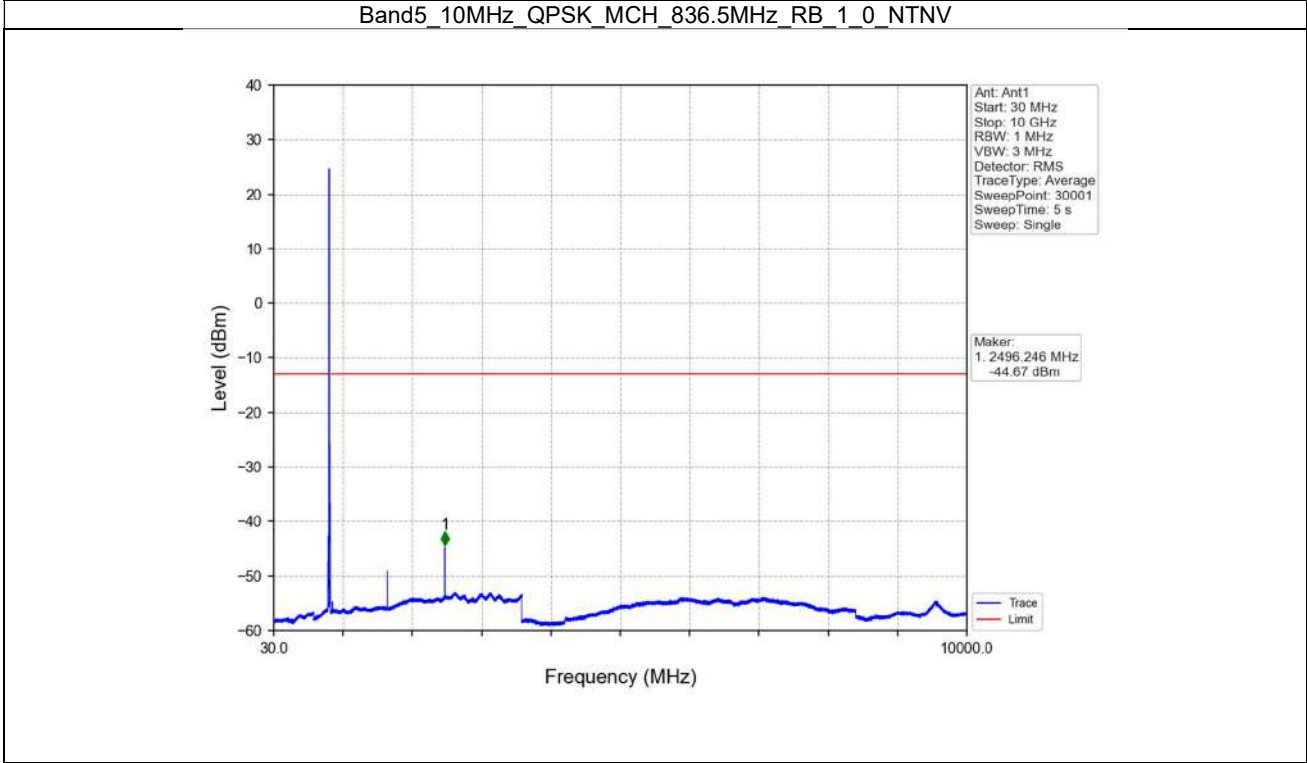
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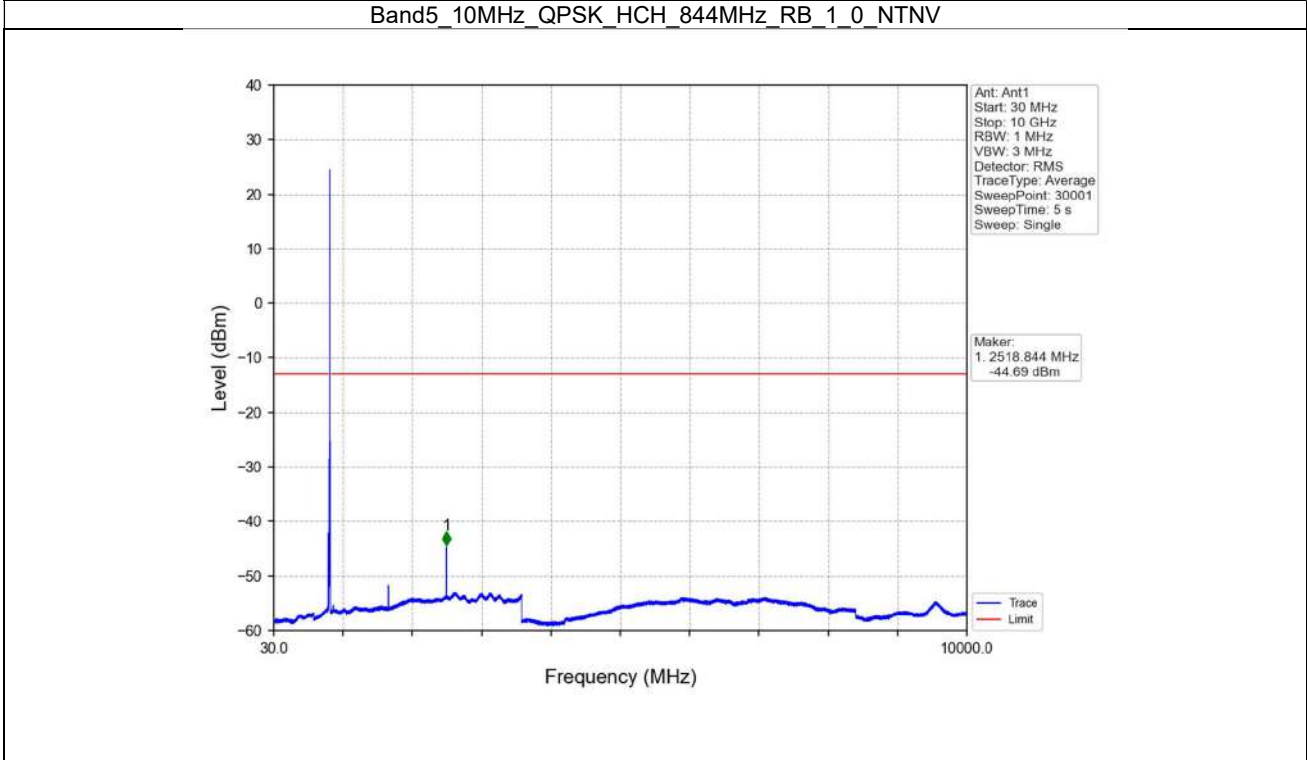
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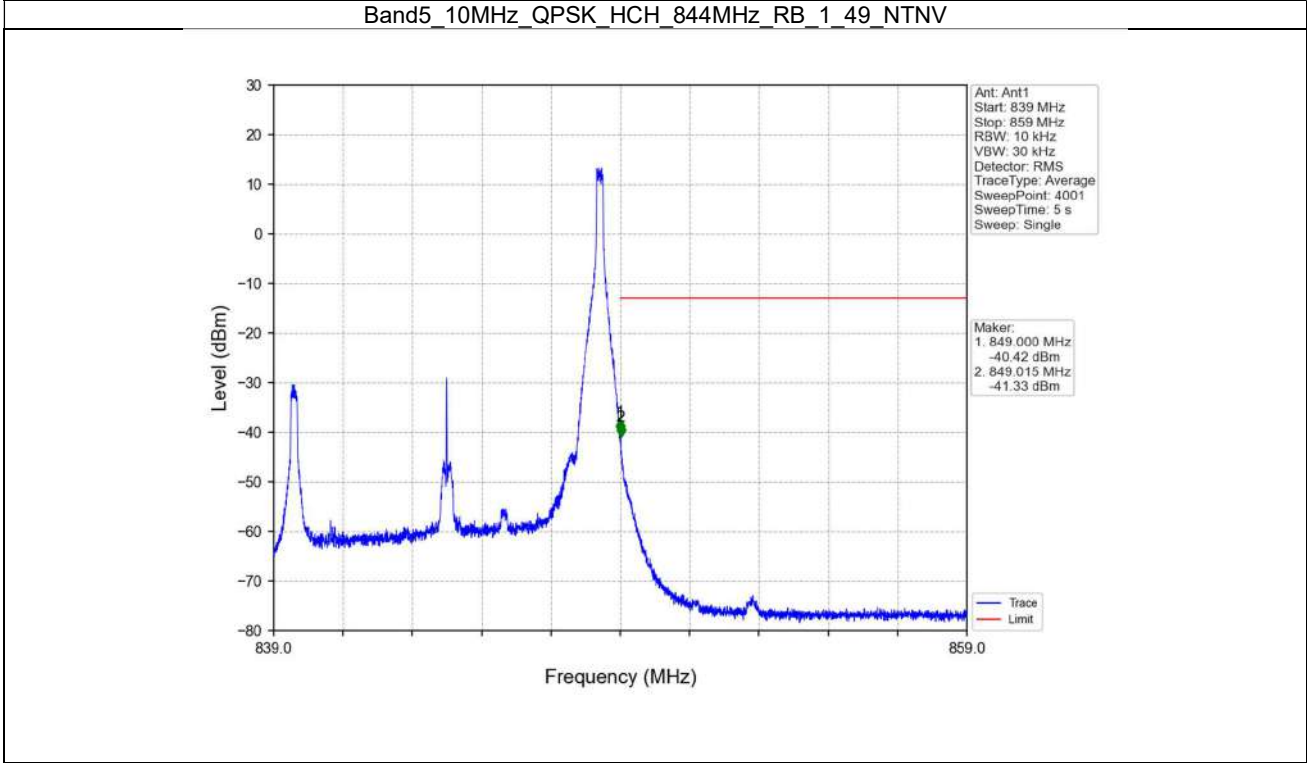


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Band5_10MHz_QPSK_HCH_844MHz_RB_1_49_NTNV

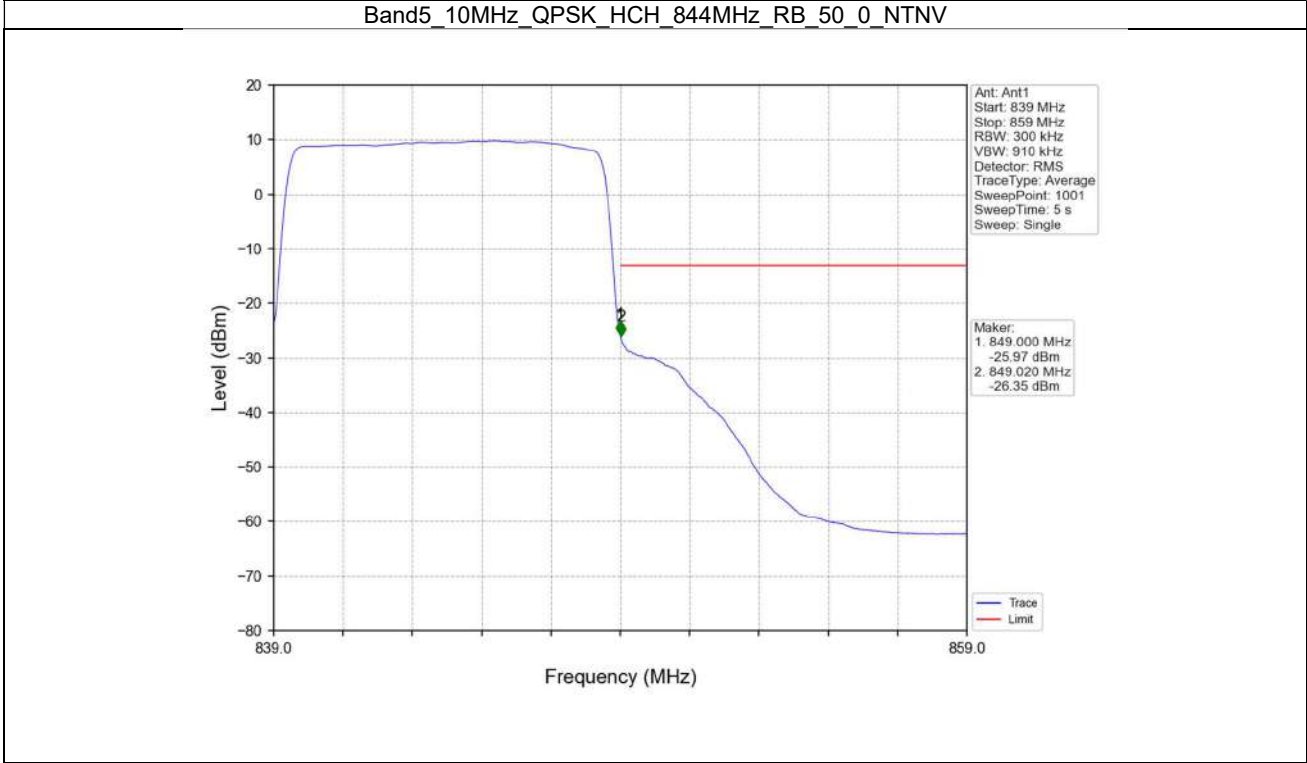


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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



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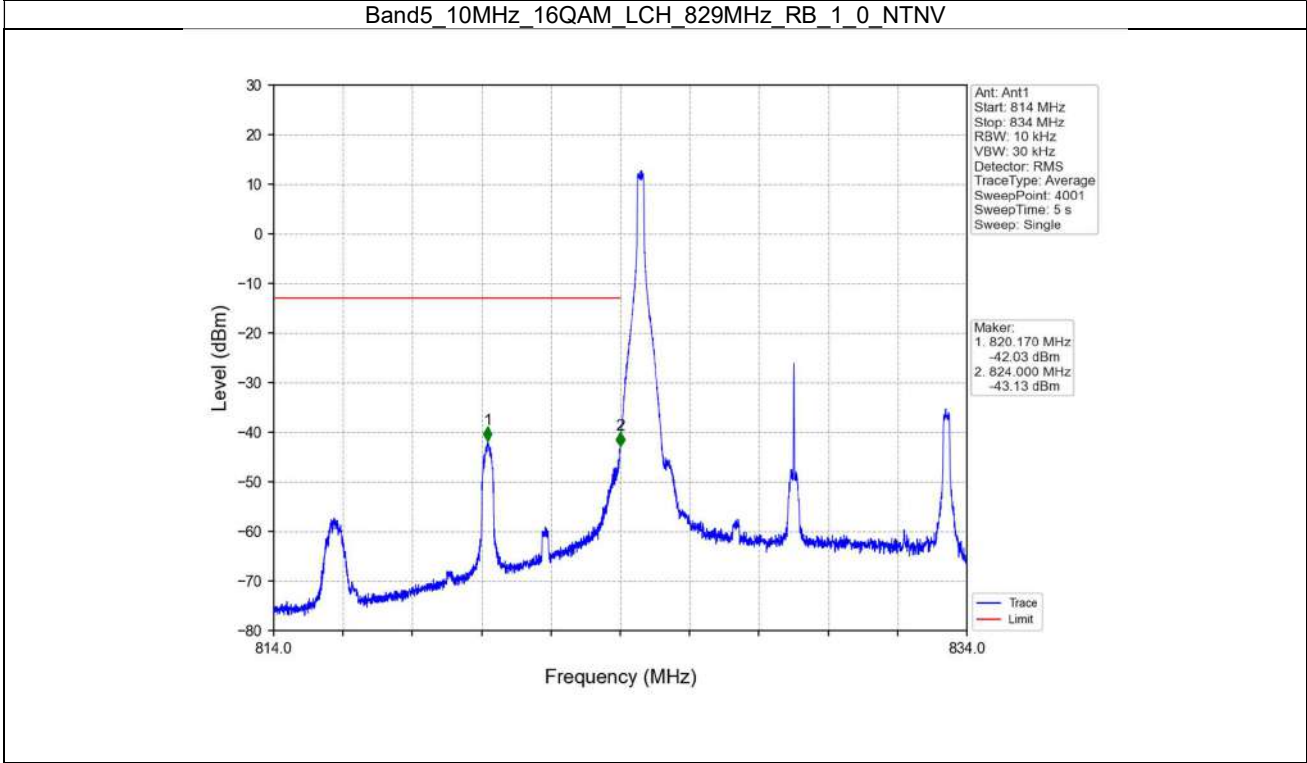
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Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

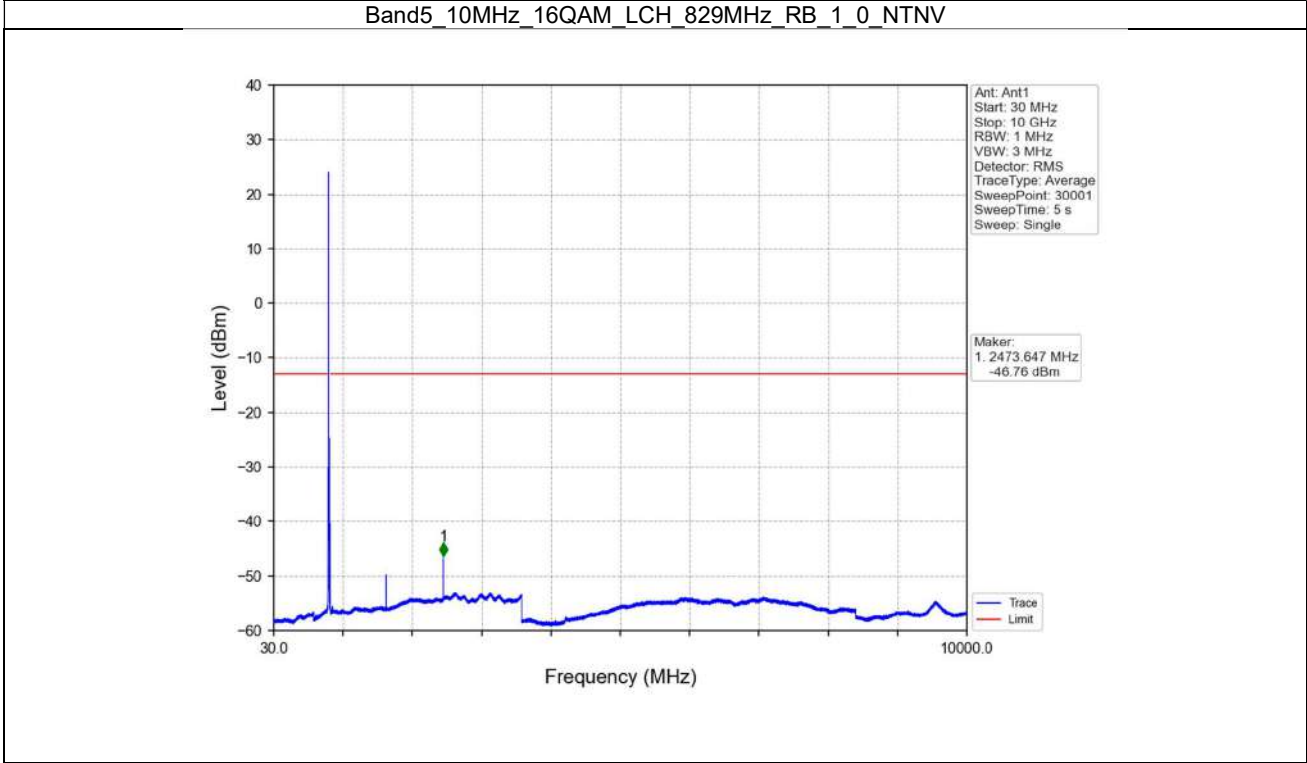


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Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

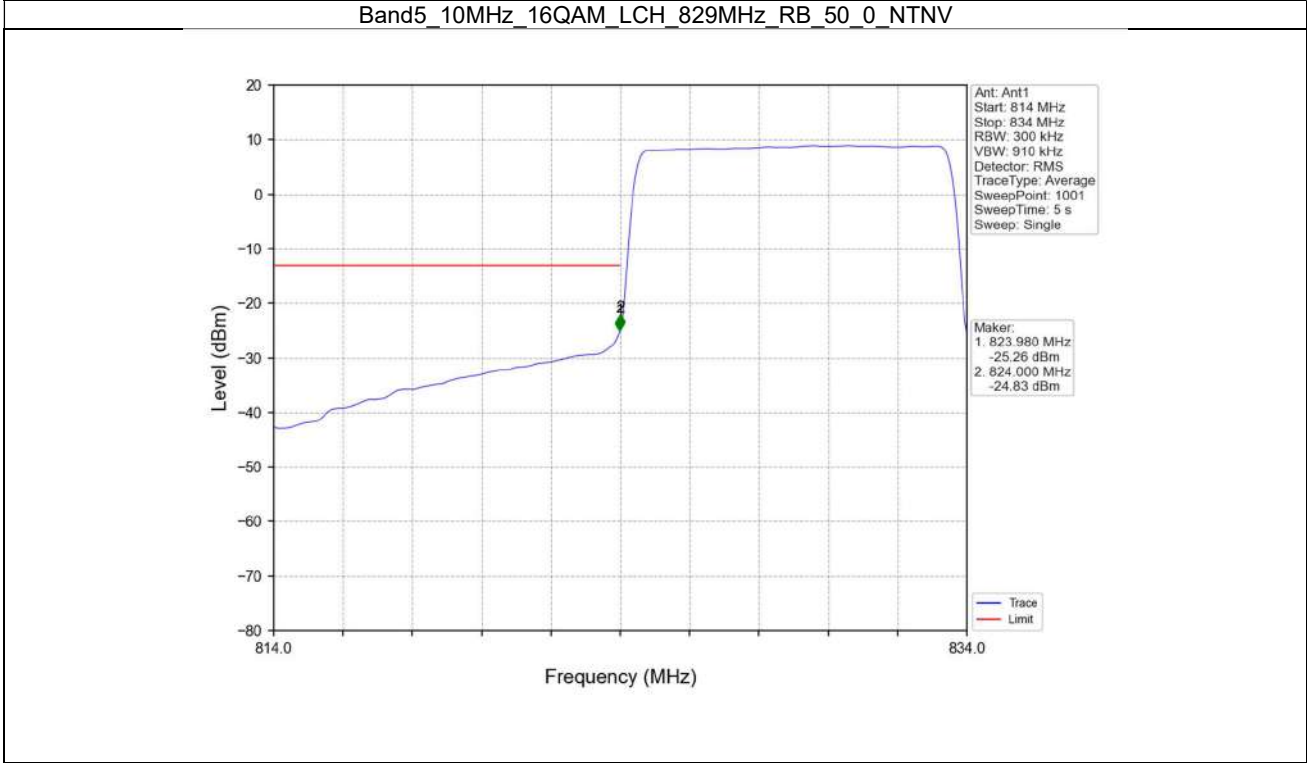


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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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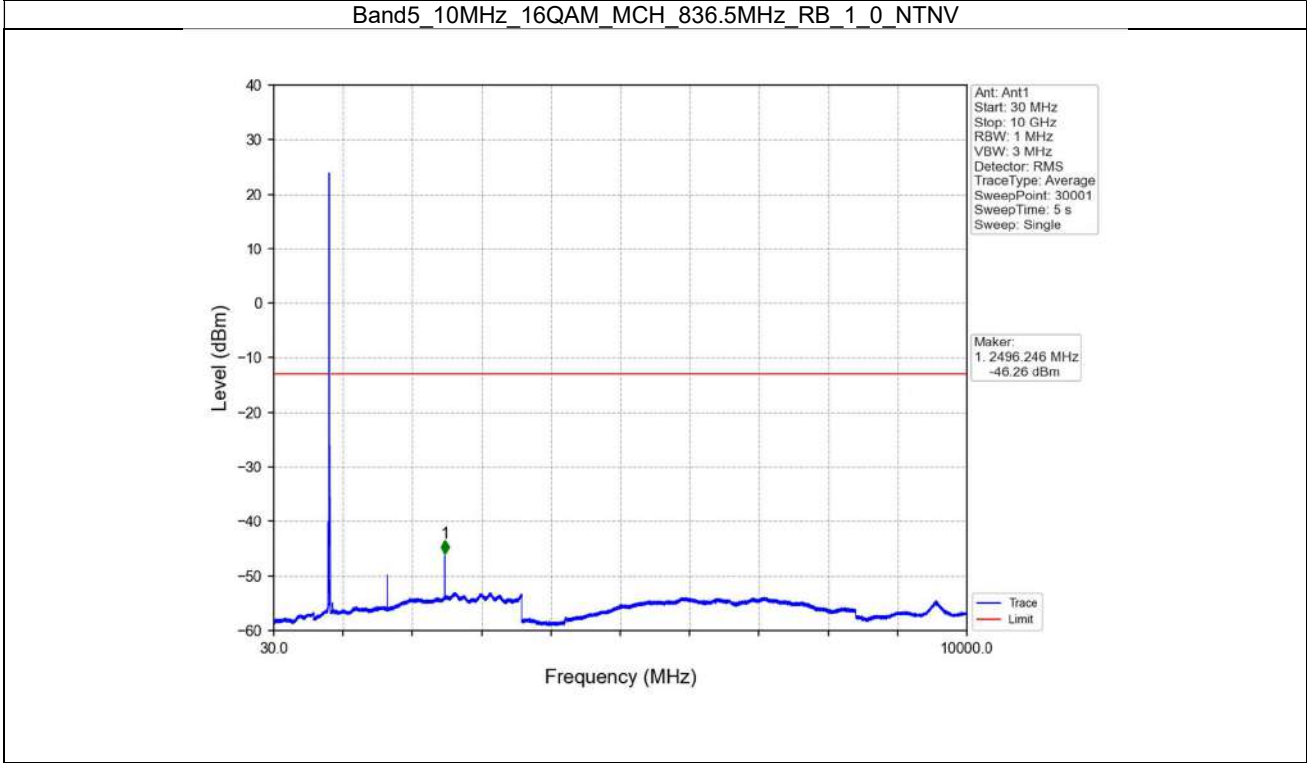
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV

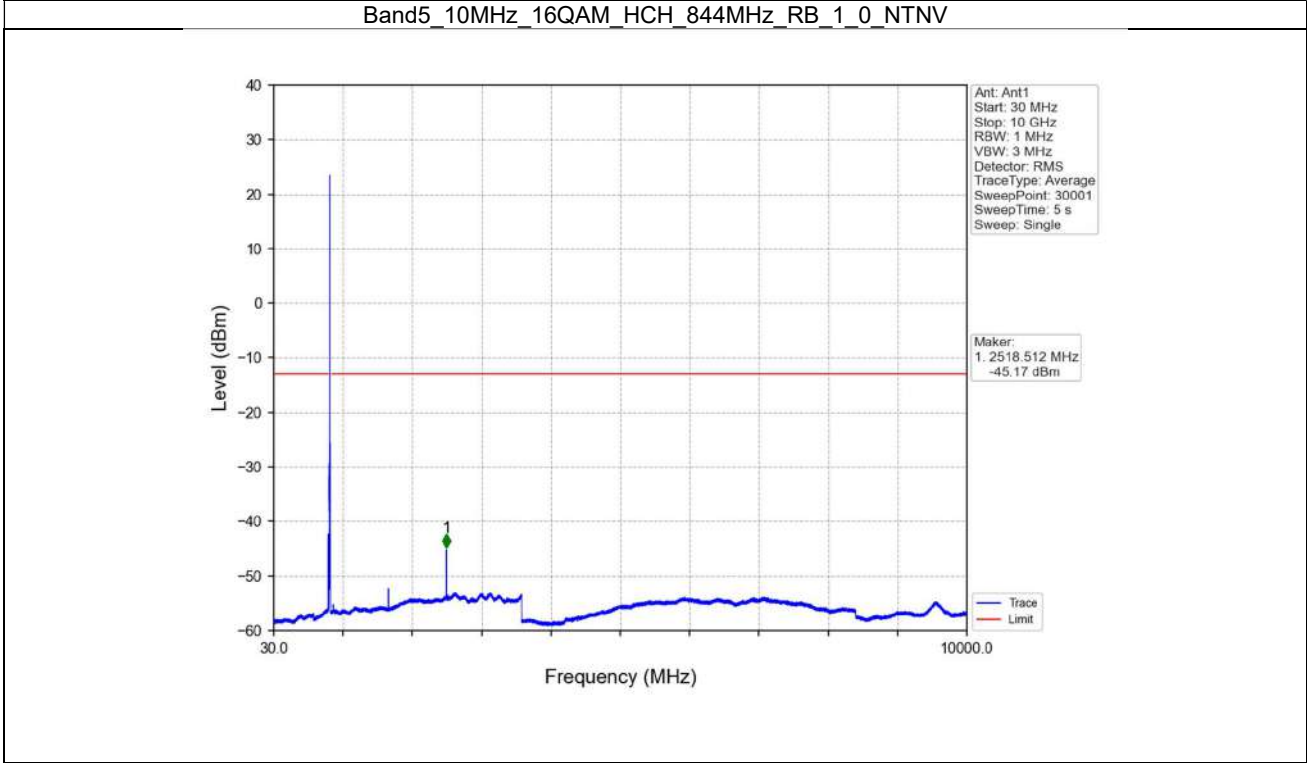


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Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV

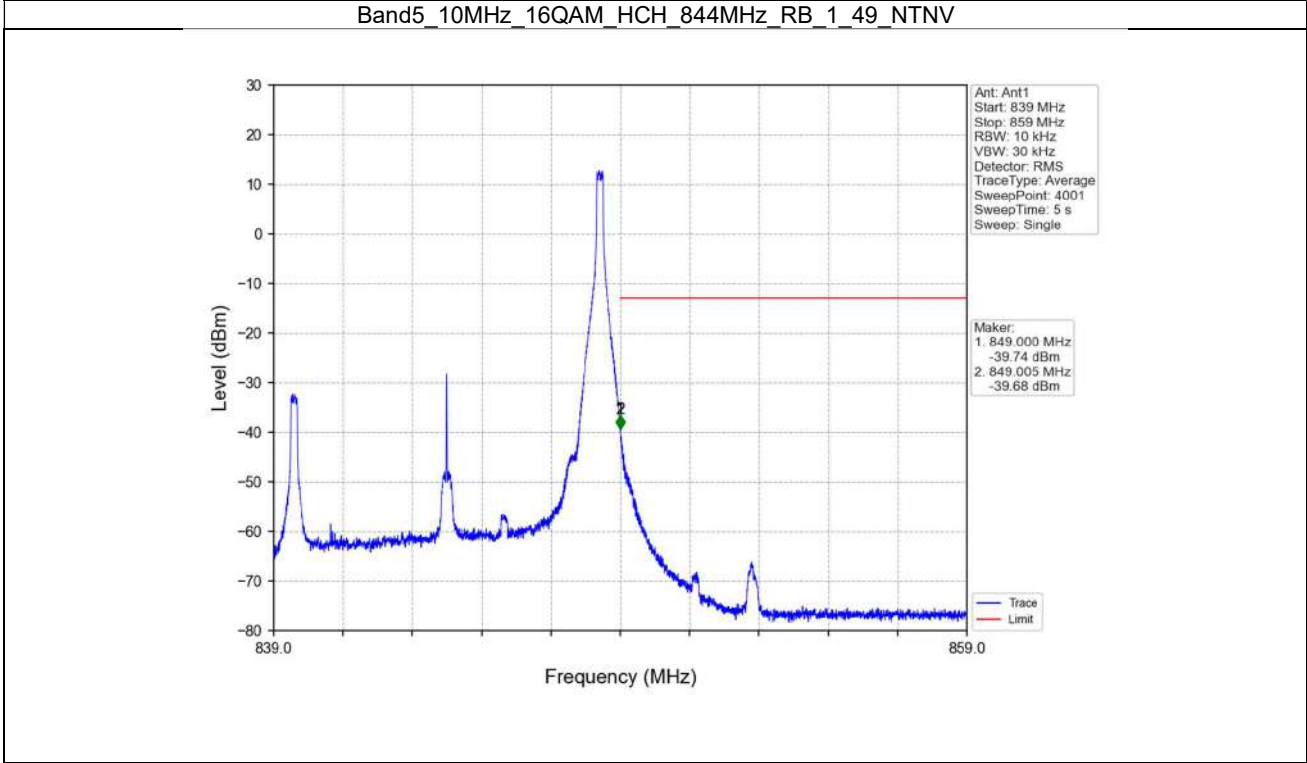


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Band5_10MHz_16QAM_HCH_844MHz_RB_1_49_NTNV

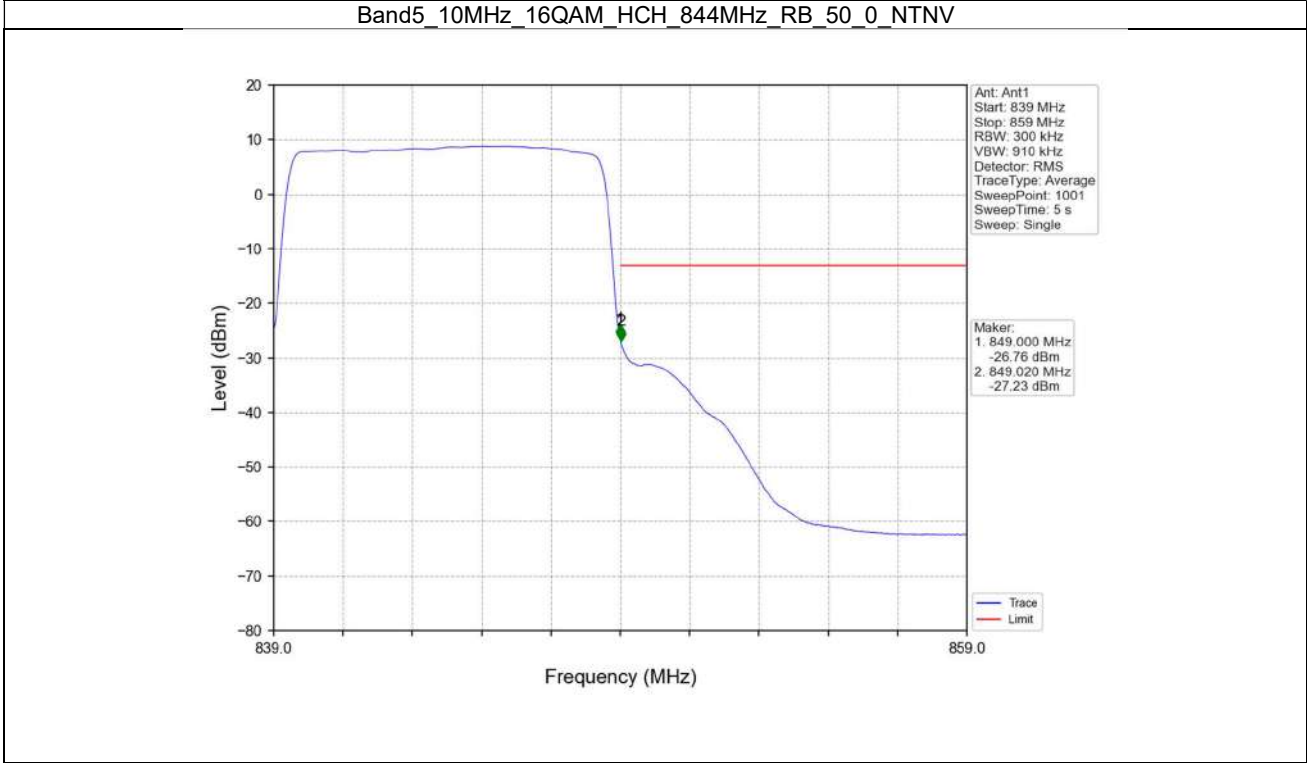


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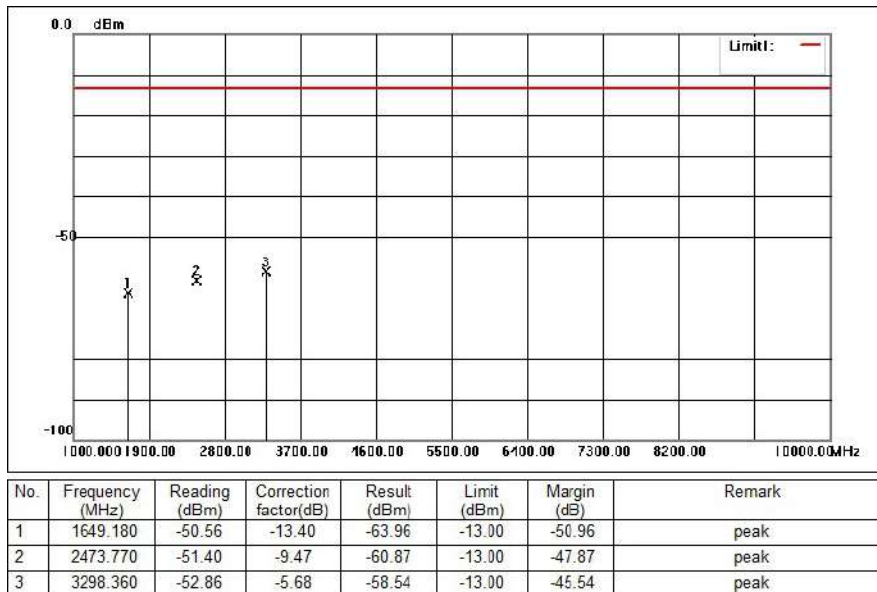
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7. Field Strength of Spurious Radiation

Up Antenna

LTE BAND 5-10MHz-Low channel

Polarization: H



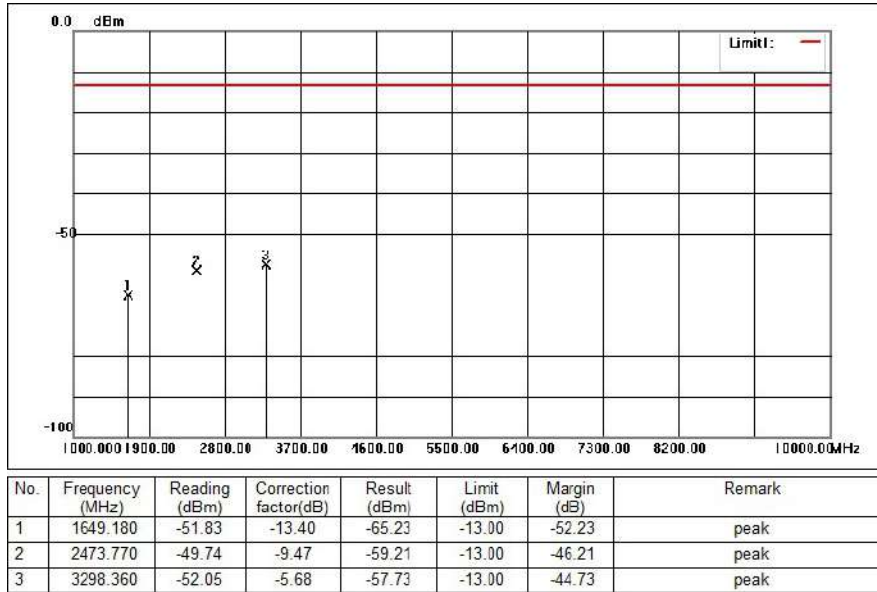
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Polarization: V



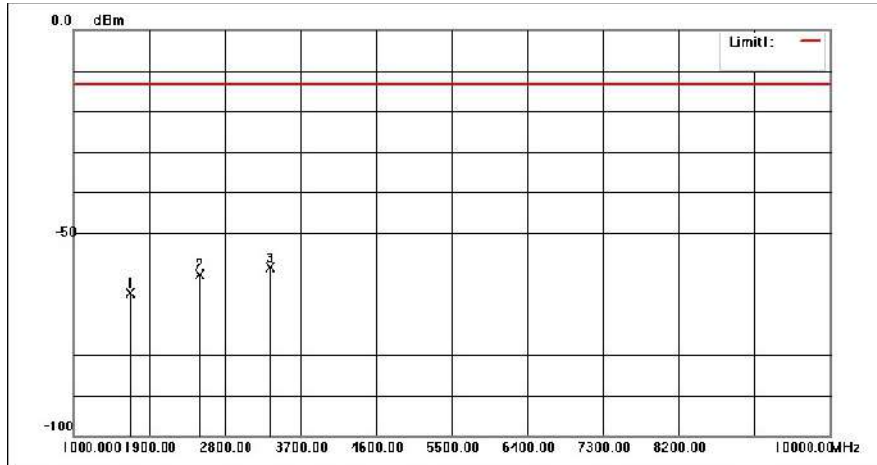
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LTE BAND 5-10MHz-Middle channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.180	-51.22	-13.58	-64.80	-13.00	-51.80	peak
2	2509.770	-51.23	-9.26	-60.49	-13.00	-47.49	peak
3	3346.360	-53.00	-5.51	-58.51	-13.00	-45.51	peak

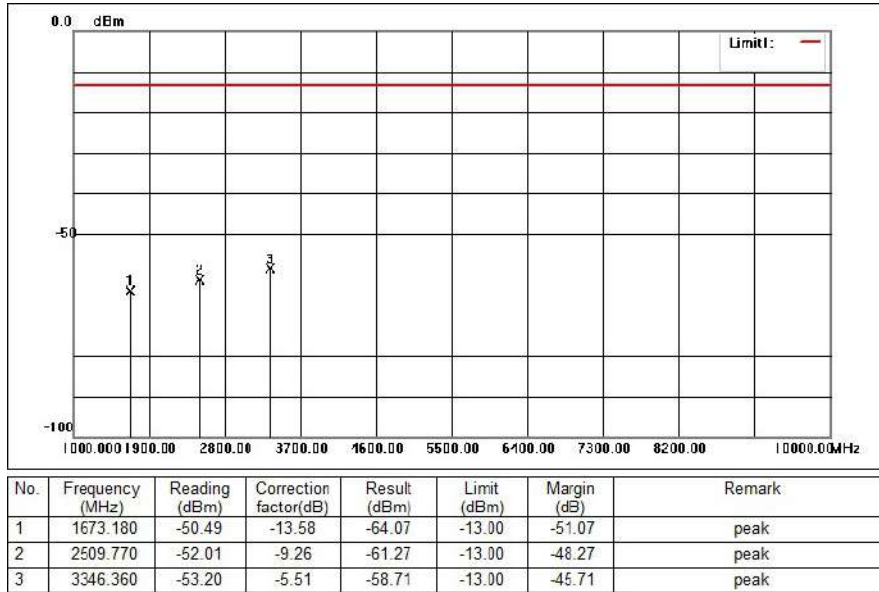


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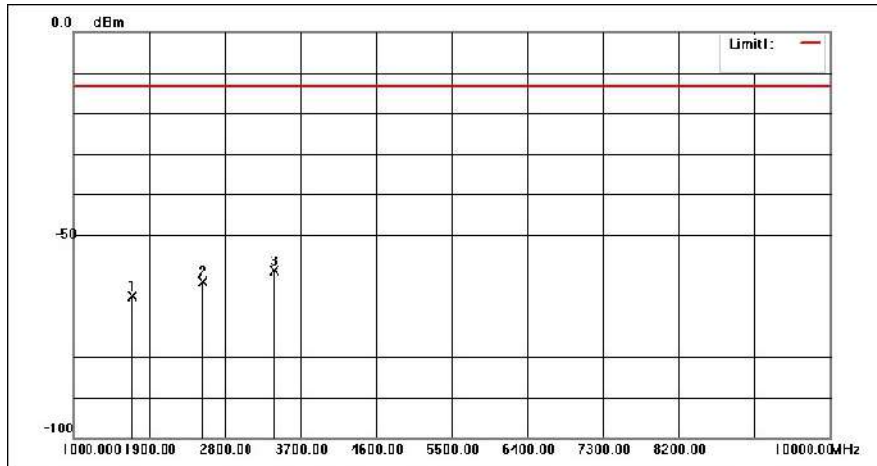
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LTE BAND 5-10MHz-High channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1696.820	-51.29	-13.75	-65.04	-13.00	-52.04	peak
2	2545.230	-52.49	-9.11	-61.60	-13.00	-48.60	peak
3	3393.640	-53.62	-5.34	-58.96	-13.00	-45.96	peak

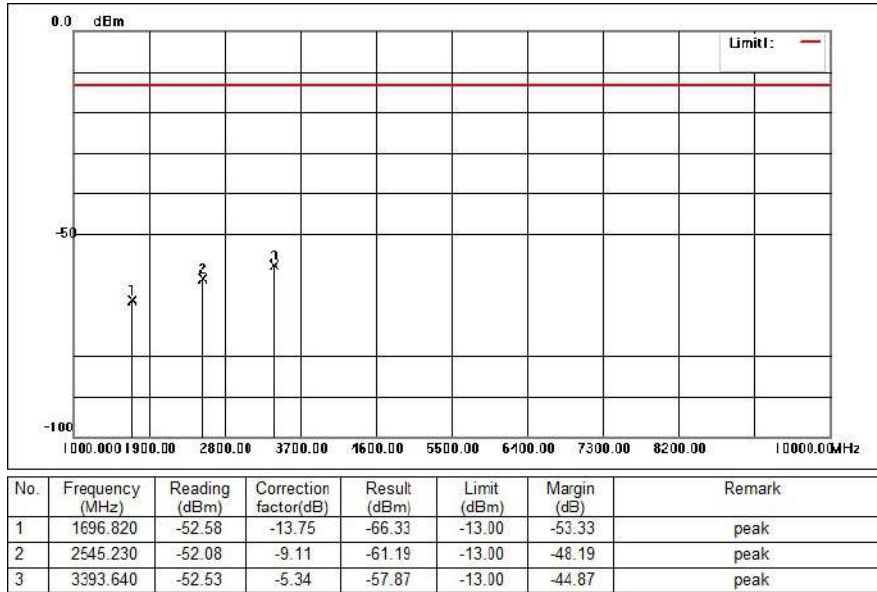


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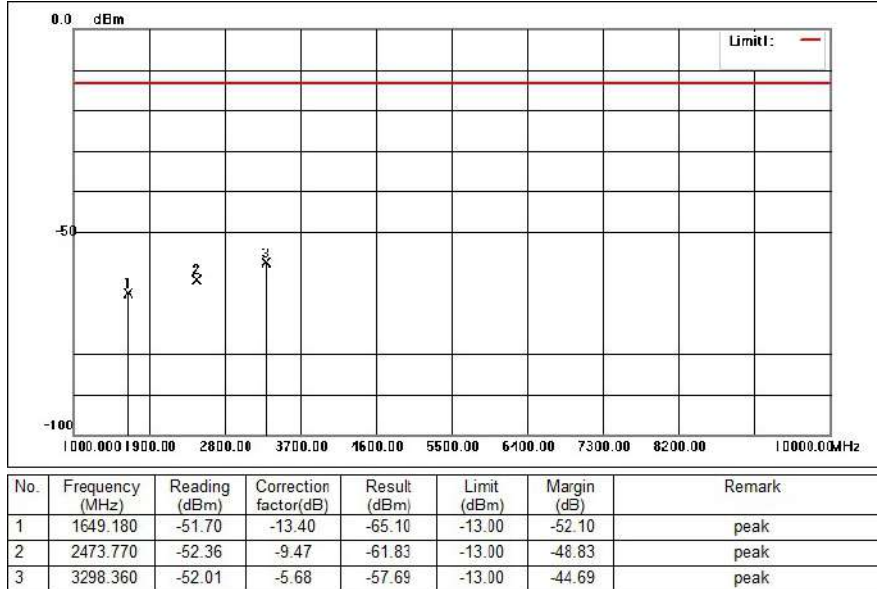
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Down Antenna

LTE BAND 5-10MHz-Low channel

Polarization: H

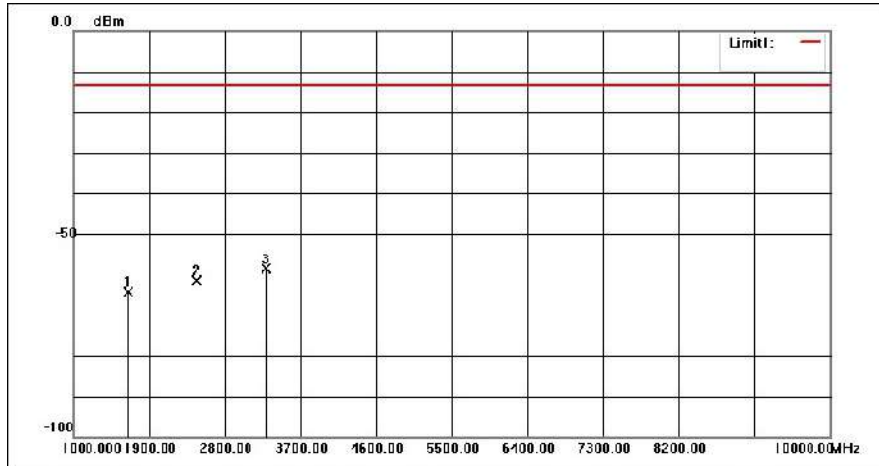


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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1649.180	-50.87	-13.40	-64.27	-13.00	-51.27	peak
2	2473.770	-52.07	-9.47	-61.54	-13.00	-48.54	peak
3	3298.360	-53.00	-5.68	-58.68	-13.00	-45.68	peak

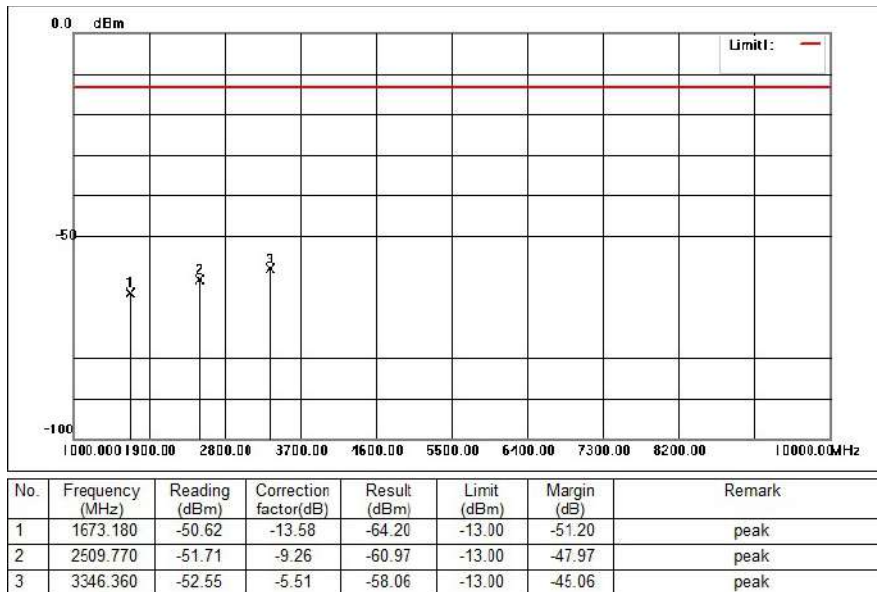


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LTE BAND 5-Middle channel

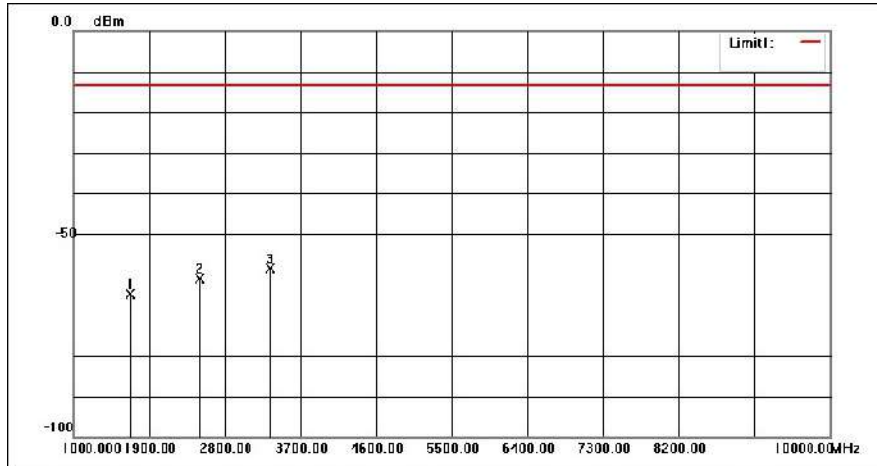
Polarization: H



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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.180	-51.29	-13.58	-64.87	-13.00	-51.87	peak
2	2509.770	-51.89	-9.26	-61.15	-13.00	-48.15	peak
3	3346.360	-53.08	-5.51	-58.59	-13.00	-45.59	peak

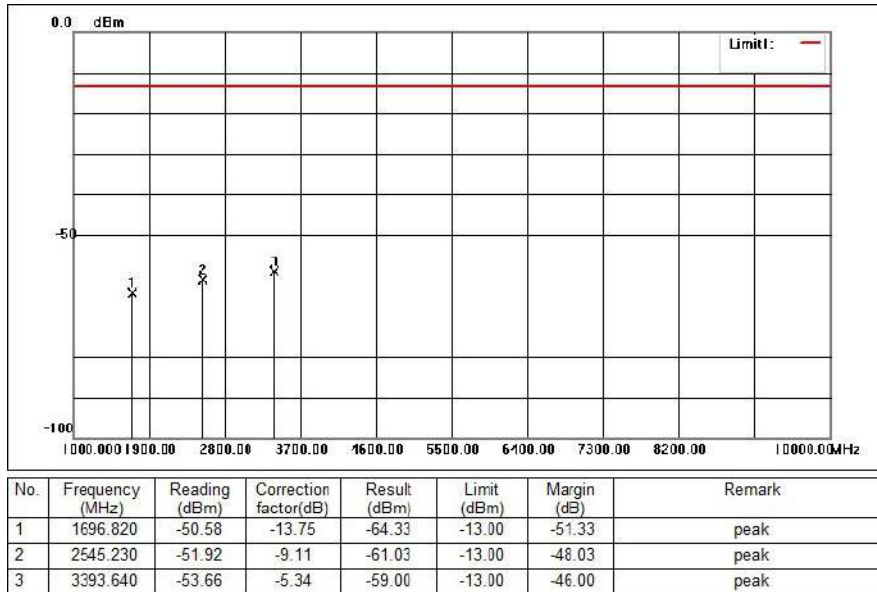


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LTE BAND 5-10MHz-High channel

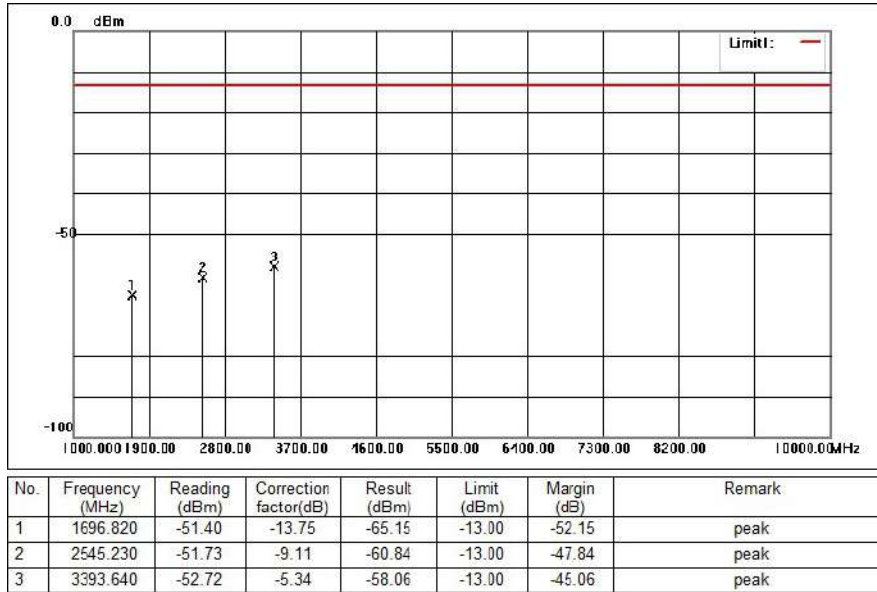
Polarization: H



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Polarization: V



Remark1:According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark2:The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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