

Appendix B.7 for KSEM2108001480CR-LTE-Band 4

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1710.7	1	0	22.95	-1.00	21.95	<=30	Pass	
			2	22.51	-1.00	21.51	<=30	Pass	
			5	22.53	-1.00	21.53	<=30	Pass	
		3	0	22.44	-1.00	21.44	<=30	Pass	
			2	22.45	-1.00	21.45	<=30	Pass	
			3	22.29	-1.00	21.29	<=30	Pass	
	6	0	21.30	-1.00	20.30	<=30	Pass		
	1732.5	1	0	22.60	-1.00	21.60	<=30	Pass	
			2	22.79	-1.00	21.79	<=30	Pass	
			5	22.59	-1.00	21.59	<=30	Pass	
		3	0	22.90	-1.00	21.90	<=30	Pass	
			2	22.75	-1.00	21.75	<=30	Pass	
			3	22.66	-1.00	21.66	<=30	Pass	
	6	0	21.64	-1.00	20.64	<=30	Pass		
	1754.3	1	0	23.14	-1.00	22.14	<=30	Pass	
			2	23.11	-1.00	22.11	<=30	Pass	
			5	23.04	-1.00	22.04	<=30	Pass	
		3	0	22.90	-1.00	21.90	<=30	Pass	
			2	23.03	-1.00	22.03	<=30	Pass	
			3	22.98	-1.00	21.98	<=30	Pass	
	6	0	21.93	-1.00	20.93	<=30	Pass		
	16QAM	1710.7	1	0	21.32	-1.00	20.32	<=30	Pass
				2	21.23	-1.00	20.23	<=30	Pass
				5	21.38	-1.00	20.38	<=30	Pass
3			0	21.37	-1.00	20.37	<=30	Pass	
			2	21.43	-1.00	20.43	<=30	Pass	
			3	21.39	-1.00	20.39	<=30	Pass	
6		0	20.17	-1.00	19.17	<=30	Pass		
1732.5		1	0	21.88	-1.00	20.88	<=30	Pass	
			2	21.82	-1.00	20.82	<=30	Pass	
			5	21.80	-1.00	20.80	<=30	Pass	
		3	0	21.64	-1.00	20.64	<=30	Pass	
			2	21.81	-1.00	20.81	<=30	Pass	
			3	21.68	-1.00	20.68	<=30	Pass	
6		0	20.71	-1.00	19.71	<=30	Pass		



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1754.3	1	0	22.09	-1.00	21.09	<=30	Pass
		2	22.10	-1.00	21.10	<=30	Pass
		5	22.14	-1.00	21.14	<=30	Pass
	3	0	22.28	-1.00	21.28	<=30	Pass
		2	22.18	-1.00	21.18	<=30	Pass
		3	22.27	-1.00	21.27	<=30	Pass
6	0	21.04	-1.00	20.04	<=30	Pass	

Note1: EIRP=Power+Antenna Gain

1.2 B4_3MHz_EIRP

1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1711.5	1	0	22.93	-1.00	21.93	<=30	Pass	
			7	22.62	-1.00	21.62	<=30	Pass	
			14	22.53	-1.00	21.53	<=30	Pass	
		8	0	21.59	-1.00	20.59	<=30	Pass	
			4	21.56	-1.00	20.56	<=30	Pass	
			7	21.52	-1.00	20.52	<=30	Pass	
	15	0	21.59	-1.00	20.59	<=30	Pass		
	1732.5	1	0	22.73	-1.00	21.73	<=30	Pass	
			7	22.75	-1.00	21.75	<=30	Pass	
			14	22.74	-1.00	21.74	<=30	Pass	
		8	0	21.84	-1.00	20.84	<=30	Pass	
			4	21.84	-1.00	20.84	<=30	Pass	
			7	21.83	-1.00	20.83	<=30	Pass	
	15	0	21.85	-1.00	20.85	<=30	Pass		
	1753.5	1	0	22.74	-1.00	21.74	<=30	Pass	
			7	22.83	-1.00	21.83	<=30	Pass	
			14	22.82	-1.00	21.82	<=30	Pass	
		8	0	21.94	-1.00	20.94	<=30	Pass	
			4	21.92	-1.00	20.92	<=30	Pass	
			7	21.93	-1.00	20.93	<=30	Pass	
	15	0	21.97	-1.00	20.97	<=30	Pass		
	16QAM	1711.5	1	0	21.49	-1.00	20.49	<=30	Pass
				7	21.39	-1.00	20.39	<=30	Pass
				14	21.34	-1.00	20.34	<=30	Pass
8			0	20.50	-1.00	19.50	<=30	Pass	
			4	20.52	-1.00	19.52	<=30	Pass	
			7	20.43	-1.00	19.43	<=30	Pass	
15		0	20.49	-1.00	19.49	<=30	Pass		
1732.5		1	0	21.95	-1.00	20.95	<=30	Pass	
			7	22.02	-1.00	21.02	<=30	Pass	
			14	21.91	-1.00	20.91	<=30	Pass	
		8	0	20.84	-1.00	19.84	<=30	Pass	



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	1753.5	15	4	20.90	-1.00	19.90	<=30	Pass
			7	20.85	-1.00	19.85	<=30	Pass
			0	20.82	-1.00	19.82	<=30	Pass
		1	0	22.42	-1.00	21.42	<=30	Pass
			7	22.42	-1.00	21.42	<=30	Pass
			14	22.36	-1.00	21.36	<=30	Pass
	8	0	21.11	-1.00	20.11	<=30	Pass	
		4	21.10	-1.00	20.10	<=30	Pass	
		7	21.12	-1.00	20.12	<=30	Pass	
	15	0	21.05	-1.00	20.05	<=30	Pass	

Note1: EIRP=Power+Antenna Gain

1.3 B4_5MHz_EIRP

1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1712.5	1	0	22.88	-1.00	21.88	<=30	Pass		
			13	22.60	-1.00	21.60	<=30	Pass		
			24	22.35	-1.00	21.35	<=30	Pass		
		12	0	21.69	-1.00	20.69	<=30	Pass		
			6	21.49	-1.00	20.49	<=30	Pass		
			13	21.52	-1.00	20.52	<=30	Pass		
		25	0	21.57	-1.00	20.57	<=30	Pass		
		1732.5	1	0	22.81	-1.00	21.81	<=30	Pass	
				13	22.82	-1.00	21.82	<=30	Pass	
	24			22.64	-1.00	21.64	<=30	Pass		
	12		0	21.92	-1.00	20.92	<=30	Pass		
			6	21.87	-1.00	20.87	<=30	Pass		
			13	21.85	-1.00	20.85	<=30	Pass		
	25		0	21.91	-1.00	20.91	<=30	Pass		
	1752.5		1	0	22.88	-1.00	21.88	<=30	Pass	
				13	22.98	-1.00	21.98	<=30	Pass	
		24		22.75	-1.00	21.75	<=30	Pass		
		12	0	22.01	-1.00	21.01	<=30	Pass		
			6	21.90	-1.00	20.90	<=30	Pass		
			13	21.94	-1.00	20.94	<=30	Pass		
		25	0	21.94	-1.00	20.94	<=30	Pass		
		16QAM	1712.5	1	0	21.62	-1.00	20.62	<=30	Pass
					13	21.44	-1.00	20.44	<=30	Pass
	24				21.35	-1.00	20.35	<=30	Pass	
12	0			20.49	-1.00	19.49	<=30	Pass		
	6			20.40	-1.00	19.40	<=30	Pass		
	13			20.38	-1.00	19.38	<=30	Pass		



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	1732.5	25	0	20.49	-1.00	19.49	<=30	Pass
		1	0	22.09	-1.00	21.09	<=30	Pass
			13	22.07	-1.00	21.07	<=30	Pass
			24	21.94	-1.00	20.94	<=30	Pass
		12	0	20.94	-1.00	19.94	<=30	Pass
			6	20.87	-1.00	19.87	<=30	Pass
	13		20.86	-1.00	19.86	<=30	Pass	
	25	0	20.89	-1.00	19.89	<=30	Pass	
	1752.5	1	0	21.76	-1.00	20.76	<=30	Pass
			13	21.68	-1.00	20.68	<=30	Pass
			24	21.64	-1.00	20.64	<=30	Pass
		12	0	21.04	-1.00	20.04	<=30	Pass
			6	20.98	-1.00	19.98	<=30	Pass
			13	20.95	-1.00	19.95	<=30	Pass
		25	0	21.01	-1.00	20.01	<=30	Pass

Note1: EIRP=Power+Antenna Gain

1.4 B4_10MHz_EIRP

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNv									
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1715	1	0	22.94	-1.00	21.94	<=30	Pass	
			25	22.73	-1.00	21.73	<=30	Pass	
			49	22.47	-1.00	21.47	<=30	Pass	
		25	0	21.63	-1.00	20.63	<=30	Pass	
			13	21.65	-1.00	20.65	<=30	Pass	
			25	21.69	-1.00	20.69	<=30	Pass	
	50	0	21.60	-1.00	20.60	<=30	Pass		
	1732.5	1	0	22.79	-1.00	21.79	<=30	Pass	
			25	22.88	-1.00	21.88	<=30	Pass	
			49	22.39	-1.00	21.39	<=30	Pass	
		25	0	21.92	-1.00	20.92	<=30	Pass	
			13	21.93	-1.00	20.93	<=30	Pass	
			25	21.82	-1.00	20.82	<=30	Pass	
	50	0	21.94	-1.00	20.94	<=30	Pass		
	1750	1	0	22.80	-1.00	21.80	<=30	Pass	
			25	23.10	-1.00	22.10	<=30	Pass	
			49	22.81	-1.00	21.81	<=30	Pass	
		25	0	21.97	-1.00	20.97	<=30	Pass	
			13	21.96	-1.00	20.96	<=30	Pass	
			25	21.97	-1.00	20.97	<=30	Pass	
	50	0	21.99	-1.00	20.99	<=30	Pass		
	16QAM	1715	1	0	21.54	-1.00	20.54	<=30	Pass



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		25	25	21.49	-1.00	20.49	<=30	Pass		
			49	21.06	-1.00	20.06	<=30	Pass		
			0	20.55	-1.00	19.55	<=30	Pass		
			13	20.53	-1.00	19.53	<=30	Pass		
			25	20.54	-1.00	19.54	<=30	Pass		
	1732.5	50	1	0	20.39	-1.00	19.39	<=30	Pass	
				25	20.85	-1.00	19.85	<=30	Pass	
				49	21.54	-1.00	20.54	<=30	Pass	
		25	1	0	22.05	-1.00	21.05	<=30	Pass	
				25	21.95	-1.00	20.95	<=30	Pass	
				49	21.54	-1.00	20.54	<=30	Pass	
		50	25	0	20.87	-1.00	19.87	<=30	Pass	
				13	20.85	-1.00	19.85	<=30	Pass	
				25	20.80	-1.00	19.80	<=30	Pass	
	1750	50	50	0	20.81	-1.00	19.81	<=30	Pass	
				1	0	22.52	-1.00	21.52	<=30	Pass
				25	22.51	-1.00	21.51	<=30	Pass	
		1	1	49	21.95	-1.00	20.95	<=30	Pass	
				25	21.06	-1.00	20.06	<=30	Pass	
				49	21.95	-1.00	20.95	<=30	Pass	
		25	25	0	21.01	-1.00	20.01	<=30	Pass	
				13	21.06	-1.00	20.06	<=30	Pass	
				25	21.06	-1.00	20.06	<=30	Pass	
	50	50	0	21.04	-1.00	20.04	<=30	Pass		

Note1: EIRP=Power+Antenna Gain

1.5 B4_15MHz_EIRP

1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNv									
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1717.5	1	0	22.41	-1.00	21.41	<=30	Pass	
			38	22.44	-1.00	21.44	<=30	Pass	
			74	22.27	-1.00	21.27	<=30	Pass	
		36	0	21.33	-1.00	20.33	<=30	Pass	
			18	21.56	-1.00	20.56	<=30	Pass	
			39	21.61	-1.00	20.61	<=30	Pass	
		75	0	21.41	-1.00	20.41	<=30	Pass	
			1	0	22.34	-1.00	21.34	<=30	Pass
				38	22.60	-1.00	21.60	<=30	Pass
	74	22.54		-1.00	21.54	<=30	Pass		
	1732.5	36	0	21.42	-1.00	20.42	<=30	Pass	
			18	21.56	-1.00	20.56	<=30	Pass	
			39	21.59	-1.00	20.59	<=30	Pass	
		75	0	21.53	-1.00	20.53	<=30	Pass	
			1	0	22.36	-1.00	21.36	<=30	Pass
				38	22.86	-1.00	21.86	<=30	Pass
	74	22.85		-1.00	21.85	<=30	Pass		



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		36	0	21.62	-1.00	20.62	<=30	Pass	
			18	21.82	-1.00	20.82	<=30	Pass	
			39	21.94	-1.00	20.94	<=30	Pass	
		75	0	21.72	-1.00	20.72	<=30	Pass	
16QAM	1717.5	1	0	21.17	-1.00	20.17	<=30	Pass	
			38	21.61	-1.00	20.61	<=30	Pass	
			74	21.32	-1.00	20.32	<=30	Pass	
		36	0	20.11	-1.00	19.11	<=30	Pass	
			18	20.29	-1.00	19.29	<=30	Pass	
			39	20.34	-1.00	19.34	<=30	Pass	
		75	0	20.17	-1.00	19.17	<=30	Pass	
		1732.5	1	0	21.27	-1.00	20.27	<=30	Pass
				38	21.59	-1.00	20.59	<=30	Pass
	74			21.58	-1.00	20.58	<=30	Pass	
	36		0	20.35	-1.00	19.35	<=30	Pass	
			18	20.47	-1.00	19.47	<=30	Pass	
			39	20.58	-1.00	19.58	<=30	Pass	
	75		0	20.48	-1.00	19.48	<=30	Pass	
	1747.5		1	0	21.94	-1.00	20.94	<=30	Pass
				38	22.25	-1.00	21.25	<=30	Pass
		74		22.04	-1.00	21.04	<=30	Pass	
		36	0	20.64	-1.00	19.64	<=30	Pass	
			18	20.86	-1.00	19.86	<=30	Pass	
			39	20.90	-1.00	19.90	<=30	Pass	
		75	0	20.69	-1.00	19.69	<=30	Pass	

Note1: EIRP=Power+Antenna Gain

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	22.76	-1.00	21.76	<=30	Pass
			50	22.66	-1.00	21.66	<=30	Pass
			99	22.15	-1.00	21.15	<=30	Pass
		50	0	21.73	-1.00	20.73	<=30	Pass
			25	21.66	-1.00	20.66	<=30	Pass
			50	21.57	-1.00	20.57	<=30	Pass
	1732.5	100	0	21.68	-1.00	20.68	<=30	Pass
			0	22.76	-1.00	21.76	<=30	Pass
			50	22.59	-1.00	21.59	<=30	Pass
		50	99	22.28	-1.00	21.28	<=30	Pass
			0	21.77	-1.00	20.77	<=30	Pass
			25	21.63	-1.00	20.63	<=30	Pass



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	1745	1	50	21.44	-1.00	20.44	<=30	Pass		
			100	0	21.53	-1.00	20.53	<=30	Pass	
			0	22.69	-1.00	21.69	<=30	Pass		
		50	50	22.80	-1.00	21.80	<=30	Pass		
			99	22.49	-1.00	21.49	<=30	Pass		
			0	21.78	-1.00	20.78	<=30	Pass		
		100	25	21.82	-1.00	20.82	<=30	Pass		
			50	21.69	-1.00	20.69	<=30	Pass		
			0	21.74	-1.00	20.74	<=30	Pass		
		16QAM	1720	1	0	21.79	-1.00	20.79	<=30	Pass
					50	21.80	-1.00	20.80	<=30	Pass
					99	21.41	-1.00	20.41	<=30	Pass
50	0			20.37	-1.00	19.37	<=30	Pass		
	25			20.32	-1.00	19.32	<=30	Pass		
	50			20.24	-1.00	19.24	<=30	Pass		
100	0			20.41	-1.00	19.41	<=30	Pass		
1732.5	1			0	21.75	-1.00	20.75	<=30	Pass	
				50	21.83	-1.00	20.83	<=30	Pass	
			99	21.48	-1.00	20.48	<=30	Pass		
	50		0	20.66	-1.00	19.66	<=30	Pass		
			25	20.54	-1.00	19.54	<=30	Pass		
			50	20.46	-1.00	19.46	<=30	Pass		
100	0		20.57	-1.00	19.57	<=30	Pass			
1745	1		0	21.98	-1.00	20.98	<=30	Pass		
			50	21.99	-1.00	20.99	<=30	Pass		
			99	21.62	-1.00	20.62	<=30	Pass		
	50		0	20.79	-1.00	19.79	<=30	Pass		
			25	20.85	-1.00	19.85	<=30	Pass		
			50	20.72	-1.00	19.72	<=30	Pass		
	100		0	20.79	-1.00	19.79	<=30	Pass		

Note1: EIRP=Power+Antenna Gain

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 B4_1.4MHz

2.1.1 Test Result

Band: 4 / 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	1710.7	6	0	20	3.27	-5.35	-0.00	-2.5 to 2.5	Pass
					3.85	-5.24	-0.00	-2.5 to 2.5	Pass
					4.43	-5.48	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-4.75	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-3.68	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-4.52	-0.00	-2.5 to 2.5	Pass
				0	3.85	-5.55	-0.00	-2.5 to 2.5	Pass
				10	3.85	-3.63	-0.00	-2.5 to 2.5	Pass
				30	3.85	-4.65	-0.00	-2.5 to 2.5	Pass
				40	3.85	-4.23	-0.00	-2.5 to 2.5	Pass
	50	3.85	-2.16	-0.00	-2.5 to 2.5	Pass			
	1732.5	6	0	20	3.27	11.47	0.01	-2.5 to 2.5	Pass
					3.85	12.23	0.01	-2.5 to 2.5	Pass
					4.43	13.43	0.01	-2.5 to 2.5	Pass
				-30	3.85	12.46	0.01	-2.5 to 2.5	Pass
				-20	3.85	13.89	0.01	-2.5 to 2.5	Pass
				-10	3.85	14.23	0.01	-2.5 to 2.5	Pass
				0	3.85	15.25	0.01	-2.5 to 2.5	Pass
				10	3.85	14.56	0.01	-2.5 to 2.5	Pass
				30	3.85	14.16	0.01	-2.5 to 2.5	Pass
				40	3.85	12.75	0.01	-2.5 to 2.5	Pass
	50	3.85	15.78	0.01	-2.5 to 2.5	Pass			
	1754.3	6	0	20	3.27	-2.36	-0.00	-2.5 to 2.5	Pass
					3.85	-2.32	-0.00	-2.5 to 2.5	Pass
					4.43	-2.20	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-2.26	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-2.43	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-1.65	-0.00	-2.5 to 2.5	Pass
				0	3.85	-1.73	-0.00	-2.5 to 2.5	Pass
				10	3.85	-2.98	-0.00	-2.5 to 2.5	Pass
30				3.85	-2.70	-0.00	-2.5 to 2.5	Pass	
40				3.85	-0.27	-0.00	-2.5 to 2.5	Pass	
50	3.85	-1.82	-0.00	-2.5 to 2.5	Pass				
16QAM	1710.7	6	0	20	3.27	-1.56	-0.00	-2.5 to 2.5	Pass
					3.85	-1.36	-0.00	-2.5 to 2.5	Pass



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					4.43	-0.59	-0.00	-2.5 to 2.5	Pass	
				-30	3.85	-2.90	-0.00	-2.5 to 2.5	Pass	
				-20	3.85	-0.99	-0.00	-2.5 to 2.5	Pass	
				-10	3.85	0.01	0.00	-2.5 to 2.5	Pass	
				0	3.85	-0.19	-0.00	-2.5 to 2.5	Pass	
				10	3.85	-0.79	-0.00	-2.5 to 2.5	Pass	
				30	3.85	-1.24	-0.00	-2.5 to 2.5	Pass	
				40	3.85	0.03	0.00	-2.5 to 2.5	Pass	
				50	3.85	-2.03	-0.00	-2.5 to 2.5	Pass	
	1732.5	6	0		20	3.27	-2.02	-0.00	-2.5 to 2.5	Pass
						3.85	-1.89	-0.00	-2.5 to 2.5	Pass
						4.43	-1.50	-0.00	-2.5 to 2.5	Pass
					-30	3.85	0.31	0.00	-2.5 to 2.5	Pass
					-20	3.85	-1.97	-0.00	-2.5 to 2.5	Pass
					-10	3.85	-0.92	-0.00	-2.5 to 2.5	Pass
					0	3.85	-2.35	-0.00	-2.5 to 2.5	Pass
					10	3.85	-0.54	-0.00	-2.5 to 2.5	Pass
					30	3.85	-0.76	-0.00	-2.5 to 2.5	Pass
	40	3.85	-1.46	-0.00	-2.5 to 2.5	Pass				
	50	3.85	-0.47	-0.00	-2.5 to 2.5	Pass				
	1754.3	6	0		20	3.27	-2.12	-0.00	-2.5 to 2.5	Pass
3.85						-2.12	-0.00	-2.5 to 2.5	Pass	
4.43						-1.04	-0.00	-2.5 to 2.5	Pass	
-30					3.85	-2.57	-0.00	-2.5 to 2.5	Pass	
-20					3.85	0.24	0.00	-2.5 to 2.5	Pass	
-10					3.85	-0.34	-0.00	-2.5 to 2.5	Pass	
0					3.85	-2.70	-0.00	-2.5 to 2.5	Pass	
10					3.85	-2.55	-0.00	-2.5 to 2.5	Pass	
30					3.85	-0.43	-0.00	-2.5 to 2.5	Pass	
40	3.85	-0.13	-0.00	-2.5 to 2.5	Pass					
50	3.85	-2.23	-0.00	-2.5 to 2.5	Pass					

2.2 B4_3MHz

2.2.1 Test Result

Band: 4 / Bandwidth: 3MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1711.5	15	0	20	3.27	2.25	0.00	-2.5 to 2.5	Pass	
					3.85	3.06	0.00	-2.5 to 2.5	Pass	
					4.43	1.70	0.00	-2.5 to 2.5	Pass	
					-30	3.85	3.32	0.00	-2.5 to 2.5	Pass
					-20	3.85	3.18	0.00	-2.5 to 2.5	Pass
					-10	3.85	1.39	0.00	-2.5 to 2.5	Pass
					0	3.85	3.56	0.00	-2.5 to 2.5	Pass



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16QAM	1732.5	15	0	10	3.85	0.86	0.00	-2.5 to 2.5	Pass			
				30	3.85	2.98	0.00	-2.5 to 2.5	Pass			
				40	3.85	2.32	0.00	-2.5 to 2.5	Pass			
				50	3.85	3.73	0.00	-2.5 to 2.5	Pass			
				20	3.27	0.46	0.00	-2.5 to 2.5	Pass			
					3.85	0.30	0.00	-2.5 to 2.5	Pass			
					4.43	2.09	0.00	-2.5 to 2.5	Pass			
				-30	3.85	3.06	0.00	-2.5 to 2.5	Pass			
				-20	3.85	1.36	0.00	-2.5 to 2.5	Pass			
				-10	3.85	2.72	0.00	-2.5 to 2.5	Pass			
				0	3.85	1.96	0.00	-2.5 to 2.5	Pass			
				10	3.85	1.24	0.00	-2.5 to 2.5	Pass			
				30	3.85	2.59	0.00	-2.5 to 2.5	Pass			
				40	3.85	1.65	0.00	-2.5 to 2.5	Pass			
				50	3.85	3.53	0.00	-2.5 to 2.5	Pass			
	1753.5	15	0	20	3.27	3.43	0.00	-2.5 to 2.5	Pass			
					3.85	4.26	0.00	-2.5 to 2.5	Pass			
					4.43	3.25	0.00	-2.5 to 2.5	Pass			
				-30	3.85	2.35	0.00	-2.5 to 2.5	Pass			
				-20	3.85	4.02	0.00	-2.5 to 2.5	Pass			
				-10	3.85	3.48	0.00	-2.5 to 2.5	Pass			
				0	3.85	2.09	0.00	-2.5 to 2.5	Pass			
				10	3.85	2.68	0.00	-2.5 to 2.5	Pass			
				30	3.85	4.25	0.00	-2.5 to 2.5	Pass			
				40	3.85	4.18	0.00	-2.5 to 2.5	Pass			
				50	3.85	2.16	0.00	-2.5 to 2.5	Pass			
				1711.5	15	0	20	3.27	1.26	0.00	-2.5 to 2.5	Pass
								3.85	3.09	0.00	-2.5 to 2.5	Pass
								4.43	3.28	0.00	-2.5 to 2.5	Pass
							-30	3.85	0.10	0.00	-2.5 to 2.5	Pass
-20	3.85	1.22	0.00				-2.5 to 2.5	Pass				
-10	3.85	1.02	0.00				-2.5 to 2.5	Pass				
0	3.85	1.22	0.00				-2.5 to 2.5	Pass				
10	3.85	2.80	0.00				-2.5 to 2.5	Pass				
30	3.85	1.20	0.00				-2.5 to 2.5	Pass				
40	3.85	3.16	0.00				-2.5 to 2.5	Pass				
50	3.85	0.39	0.00				-2.5 to 2.5	Pass				
1732.5	15	0	20				3.27	2.43	0.00	-2.5 to 2.5	Pass	
							3.85	2.99	0.00	-2.5 to 2.5	Pass	
							4.43	1.97	0.00	-2.5 to 2.5	Pass	
			-30				3.85	2.76	0.00	-2.5 to 2.5	Pass	
			-20	3.85	3.45	0.00	-2.5 to 2.5	Pass				
			-10	3.85	3.13	0.00	-2.5 to 2.5	Pass				
			0	3.85	3.50	0.00	-2.5 to 2.5	Pass				
			10	3.85	1.32	0.00	-2.5 to 2.5	Pass				
			30	3.85	2.52	0.00	-2.5 to 2.5	Pass				
			40	3.85	2.35	0.00	-2.5 to 2.5	Pass				
			50	3.85	2.55	0.00	-2.5 to 2.5	Pass				



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1753.5	15	0	20	3.27	0.16	0.00	-2.5 to 2.5	Pass	
				3.85	1.57	0.00	-2.5 to 2.5	Pass	
				4.43	1.79	0.00	-2.5 to 2.5	Pass	
			-30	3.85	0.70	0.00	-2.5 to 2.5	Pass	
				-20	3.85	1.95	0.00	-2.5 to 2.5	Pass
					-10	3.85	4.59	0.00	-2.5 to 2.5
				0	3.85	2.50	0.00	-2.5 to 2.5	Pass
				10	3.85	2.30	0.00	-2.5 to 2.5	Pass
				30	3.85	3.22	0.00	-2.5 to 2.5	Pass
				40	3.85	2.88	0.00	-2.5 to 2.5	Pass
50	3.85	1.92	0.00	-2.5 to 2.5	Pass				

2.3 B4_5MHz

2.3.1 Test Result

Band: 4 / Bandwidth: 5MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	1712.5	25	0	20	3.27	3.68	0.00	-2.5 to 2.5	Pass			
					3.85	3.79	0.00	-2.5 to 2.5	Pass			
					4.43	3.85	0.00	-2.5 to 2.5	Pass			
				-30	3.85	3.85	0.00	-2.5 to 2.5	Pass			
					-20	3.85	4.08	0.00	-2.5 to 2.5	Pass		
				0	-10	3.85	4.32	0.00	-2.5 to 2.5	Pass		
					0	3.85	3.71	0.00	-2.5 to 2.5	Pass		
					10	3.85	3.46	0.00	-2.5 to 2.5	Pass		
					30	3.85	3.53	0.00	-2.5 to 2.5	Pass		
					40	3.85	3.22	0.00	-2.5 to 2.5	Pass		
					50	3.85	4.03	0.00	-2.5 to 2.5	Pass		
					1732.5	25	0	20	3.27	1.00	0.00	-2.5 to 2.5
				3.85					1.57	0.00	-2.5 to 2.5	Pass
				4.43					2.19	0.00	-2.5 to 2.5	Pass
	-30	3.85	3.50	0.00				-2.5 to 2.5	Pass			
		-20	3.85	0.86				0.00	-2.5 to 2.5	Pass		
	0	-10	3.85	-0.16				-0.00	-2.5 to 2.5	Pass		
		0	3.85	-0.09				-0.00	-2.5 to 2.5	Pass		
		10	3.85	1.90				0.00	-2.5 to 2.5	Pass		
		30	3.85	1.97				0.00	-2.5 to 2.5	Pass		
		40	3.85	2.85				0.00	-2.5 to 2.5	Pass		
		50	3.85	2.07				0.00	-2.5 to 2.5	Pass		
		1752.5	25	0				20	3.27	-0.97	-0.00	-2.5 to 2.5
	3.85								-1.53	-0.00	-2.5 to 2.5	Pass
	4.43								0.34	0.00	-2.5 to 2.5	Pass
	-30				3.85	-0.86	-0.00	-2.5 to 2.5	Pass			
	-20				3.85	-1.83	-0.00	-2.5 to 2.5	Pass			



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				-10	3.85	-2.15	-0.00	-2.5 to 2.5	Pass
				0	3.85	0.09	0.00	-2.5 to 2.5	Pass
				10	3.85	-0.60	-0.00	-2.5 to 2.5	Pass
				30	3.85	0.03	0.00	-2.5 to 2.5	Pass
				40	3.85	-0.73	-0.00	-2.5 to 2.5	Pass
				50	3.85	-2.99	-0.00	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	3.95	0.00	-2.5 to 2.5	Pass
					3.85	4.03	0.00	-2.5 to 2.5	Pass
					4.43	4.33	0.00	-2.5 to 2.5	Pass
				-30	3.85	2.82	0.00	-2.5 to 2.5	Pass
				-20	3.85	2.78	0.00	-2.5 to 2.5	Pass
				-10	3.85	3.39	0.00	-2.5 to 2.5	Pass
				0	3.85	3.35	0.00	-2.5 to 2.5	Pass
				10	3.85	3.72	0.00	-2.5 to 2.5	Pass
				30	3.85	3.86	0.00	-2.5 to 2.5	Pass
				40	3.85	4.33	0.00	-2.5 to 2.5	Pass
	50	3.85	3.55	0.00	-2.5 to 2.5	Pass			
	1732.5	25	0	20	3.27	2.27	0.00	-2.5 to 2.5	Pass
					3.85	0.89	0.00	-2.5 to 2.5	Pass
					4.43	0.84	0.00	-2.5 to 2.5	Pass
				-30	3.85	1.00	0.00	-2.5 to 2.5	Pass
				-20	3.85	2.79	0.00	-2.5 to 2.5	Pass
				-10	3.85	2.03	0.00	-2.5 to 2.5	Pass
				0	3.85	2.19	0.00	-2.5 to 2.5	Pass
				10	3.85	1.70	0.00	-2.5 to 2.5	Pass
				30	3.85	2.95	0.00	-2.5 to 2.5	Pass
				40	3.85	3.28	0.00	-2.5 to 2.5	Pass
	50	3.85	2.50	0.00	-2.5 to 2.5	Pass			
	1752.5	25	0	20	3.27	0.60	0.00	-2.5 to 2.5	Pass
					3.85	-0.62	-0.00	-2.5 to 2.5	Pass
					4.43	-0.87	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-0.57	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.30	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-1.85	-0.00	-2.5 to 2.5	Pass
				0	3.85	0.00	0.00	-2.5 to 2.5	Pass
				10	3.85	-3.12	-0.00	-2.5 to 2.5	Pass
30				3.85	-1.40	-0.00	-2.5 to 2.5	Pass	
40				3.85	-0.29	-0.00	-2.5 to 2.5	Pass	
50	3.85	-2.02	-0.00	-2.5 to 2.5	Pass				

2.4 B4_10MHz

2.4.1 Test Result

Band: 4 / Bandwidth: 10MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict



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	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	1715	50	0	20	3.27	-2.69	-0.00	-2.5 to 2.5	Pass
					3.85	-1.99	-0.00	-2.5 to 2.5	Pass
					4.43	-1.66	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-2.72	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.26	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-2.26	-0.00	-2.5 to 2.5	Pass
				0	3.85	-0.90	-0.00	-2.5 to 2.5	Pass
				10	3.85	-1.06	-0.00	-2.5 to 2.5	Pass
				30	3.85	-1.90	-0.00	-2.5 to 2.5	Pass
				40	3.85	-2.25	-0.00	-2.5 to 2.5	Pass
	50	3.85	-1.09	-0.00	-2.5 to 2.5	Pass			
	1732.5	50	0	20	3.27	-0.26	-0.00	-2.5 to 2.5	Pass
					3.85	0.00	0.00	-2.5 to 2.5	Pass
					4.43	-0.10	-0.00	-2.5 to 2.5	Pass
				-30	3.85	0.36	0.00	-2.5 to 2.5	Pass
				-20	3.85	2.02	0.00	-2.5 to 2.5	Pass
				-10	3.85	1.99	0.00	-2.5 to 2.5	Pass
				0	3.85	2.22	0.00	-2.5 to 2.5	Pass
				10	3.85	0.82	0.00	-2.5 to 2.5	Pass
				30	3.85	2.60	0.00	-2.5 to 2.5	Pass
				40	3.85	2.13	0.00	-2.5 to 2.5	Pass
	50	3.85	1.59	0.00	-2.5 to 2.5	Pass			
	1750	50	0	20	3.27	2.56	0.00	-2.5 to 2.5	Pass
					3.85	1.85	0.00	-2.5 to 2.5	Pass
					4.43	1.93	0.00	-2.5 to 2.5	Pass
				-30	3.85	2.68	0.00	-2.5 to 2.5	Pass
				-20	3.85	4.12	0.00	-2.5 to 2.5	Pass
				-10	3.85	3.18	0.00	-2.5 to 2.5	Pass
				0	3.85	2.19	0.00	-2.5 to 2.5	Pass
				10	3.85	1.42	0.00	-2.5 to 2.5	Pass
30				3.85	1.96	0.00	-2.5 to 2.5	Pass	
40				3.85	2.59	0.00	-2.5 to 2.5	Pass	
50	3.85	3.85	0.00	-2.5 to 2.5	Pass				
16QAM	1715	50	0	20	3.27	-1.87	-0.00	-2.5 to 2.5	Pass
					3.85	-1.93	-0.00	-2.5 to 2.5	Pass
					4.43	0.40	0.00	-2.5 to 2.5	Pass
				-30	3.85	-1.56	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-0.50	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-1.82	-0.00	-2.5 to 2.5	Pass
				0	3.85	-0.31	-0.00	-2.5 to 2.5	Pass
				10	3.85	0.30	0.00	-2.5 to 2.5	Pass
				30	3.85	-1.86	-0.00	-2.5 to 2.5	Pass
				40	3.85	0.37	0.00	-2.5 to 2.5	Pass
	50	3.85	-0.77	-0.00	-2.5 to 2.5	Pass			
	1732.5	50	0	20	3.27	0.03	0.00	-2.5 to 2.5	Pass
					3.85	-0.77	-0.00	-2.5 to 2.5	Pass
					4.43	1.22	0.00	-2.5 to 2.5	Pass



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			0	-30	3.85	0.54	0.00	-2.5 to 2.5	Pass
				-20	3.85	0.86	0.00	-2.5 to 2.5	Pass
				-10	3.85	-1.34	-0.00	-2.5 to 2.5	Pass
				0	3.85	1.57	0.00	-2.5 to 2.5	Pass
				10	3.85	-0.46	-0.00	-2.5 to 2.5	Pass
				30	3.85	-0.11	-0.00	-2.5 to 2.5	Pass
				40	3.85	0.36	0.00	-2.5 to 2.5	Pass
	1750	50	0	50	3.85	0.79	0.00	-2.5 to 2.5	Pass
				20	3.27	1.43	0.00	-2.5 to 2.5	Pass
					3.85	3.13	0.00	-2.5 to 2.5	Pass
					4.43	2.65	0.00	-2.5 to 2.5	Pass
				-30	3.85	3.08	0.00	-2.5 to 2.5	Pass
				-20	3.85	3.33	0.00	-2.5 to 2.5	Pass
				-10	3.85	3.42	0.00	-2.5 to 2.5	Pass
0	3.85	1.93	0.00	-2.5 to 2.5	Pass				
10	3.85	4.45	0.00	-2.5 to 2.5	Pass				
30	3.85	2.22	0.00	-2.5 to 2.5	Pass				
40	3.85	3.16	0.00	-2.5 to 2.5	Pass				
50	3.85	4.22	0.00	-2.5 to 2.5	Pass				

2.5 B4_15MHz

2.5.1 Test Result

Band: 4 / Bandwidth: 15MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	1717.5	75	0	20	3.27	0.92	0.00	-2.5 to 2.5	Pass			
					3.85	1.27	0.00	-2.5 to 2.5	Pass			
					4.43	1.39	0.00	-2.5 to 2.5	Pass			
				-30	3.85	1.50	0.00	-2.5 to 2.5	Pass			
				-20	3.85	-0.10	-0.00	-2.5 to 2.5	Pass			
				-10	3.85	0.51	0.00	-2.5 to 2.5	Pass			
				0	3.85	0.90	0.00	-2.5 to 2.5	Pass			
				10	3.85	1.24	0.00	-2.5 to 2.5	Pass			
				30	3.85	2.02	0.00	-2.5 to 2.5	Pass			
				40	3.85	1.00	0.00	-2.5 to 2.5	Pass			
				50	3.85	1.17	0.00	-2.5 to 2.5	Pass			
				1732.5	75	0	20	3.27	2.55	0.00	-2.5 to 2.5	Pass
								3.85	1.29	0.00	-2.5 to 2.5	Pass
								4.43	1.82	0.00	-2.5 to 2.5	Pass
-30	3.85	0.80	0.00				-2.5 to 2.5	Pass				
-20	3.85	3.05	0.00				-2.5 to 2.5	Pass				
-10	3.85	1.14	0.00				-2.5 to 2.5	Pass				
0	3.85	0.43	0.00				-2.5 to 2.5	Pass				
10	3.85	0.99	0.00	-2.5 to 2.5	Pass							



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				30	3.85	3.15	0.00	-2.5 to 2.5	Pass				
				40	3.85	1.75	0.00	-2.5 to 2.5	Pass				
				50	3.85	3.12	0.00	-2.5 to 2.5	Pass				
	1747.5	75	0	20	3.27	2.03	0.00	-2.5 to 2.5	Pass				
3.85					2.26	0.00	-2.5 to 2.5	Pass					
4.43					1.50	0.00	-2.5 to 2.5	Pass					
							-30	3.85	0.83	0.00	-2.5 to 2.5	Pass	
							-20	3.85	-0.29	-0.00	-2.5 to 2.5	Pass	
							-10	3.85	0.20	0.00	-2.5 to 2.5	Pass	
							0	3.85	1.42	0.00	-2.5 to 2.5	Pass	
							10	3.85	1.76	0.00	-2.5 to 2.5	Pass	
							30	3.85	-0.46	-0.00	-2.5 to 2.5	Pass	
							40	3.85	-0.59	-0.00	-2.5 to 2.5	Pass	
							50	3.85	-0.21	-0.00	-2.5 to 2.5	Pass	
16QAM				1717.5	75	0	20	3.27	0.26	0.00	-2.5 to 2.5	Pass	
	3.85	-0.67	-0.00					-2.5 to 2.5	Pass				
	4.43	0.26	0.00					-2.5 to 2.5	Pass				
								-30	3.85	0.73	0.00	-2.5 to 2.5	Pass
								-20	3.85	1.03	0.00	-2.5 to 2.5	Pass
								-10	3.85	-0.53	-0.00	-2.5 to 2.5	Pass
								0	3.85	1.65	0.00	-2.5 to 2.5	Pass
								10	3.85	1.39	0.00	-2.5 to 2.5	Pass
								30	3.85	0.26	0.00	-2.5 to 2.5	Pass
								40	3.85	-0.94	-0.00	-2.5 to 2.5	Pass
								50	3.85	0.50	0.00	-2.5 to 2.5	Pass
		1732.5	75				0	20	3.27	0.27	0.00	-2.5 to 2.5	Pass
	3.85			-0.40	-0.00	-2.5 to 2.5			Pass				
	4.43			-0.53	-0.00	-2.5 to 2.5			Pass				
								-30	3.85	-0.69	-0.00	-2.5 to 2.5	Pass
								-20	3.85	-0.06	0.00	-2.5 to 2.5	Pass
								-10	3.85	0.19	0.00	-2.5 to 2.5	Pass
								0	3.85	0.63	0.00	-2.5 to 2.5	Pass
								10	3.85	0.57	0.00	-2.5 to 2.5	Pass
								30	3.85	0.50	0.00	-2.5 to 2.5	Pass
								40	3.85	-0.27	-0.00	-2.5 to 2.5	Pass
								50	3.85	-0.06	0.00	-2.5 to 2.5	Pass
				1747.5	75	0		20	3.27	2.15	0.00	-2.5 to 2.5	Pass
	3.85	0.62	0.00				-2.5 to 2.5		Pass				
	4.43	1.04	0.00				-2.5 to 2.5		Pass				
								-30	3.85	-0.41	-0.00	-2.5 to 2.5	Pass
								-20	3.85	0.64	0.00	-2.5 to 2.5	Pass
								-10	3.85	-0.09	-0.00	-2.5 to 2.5	Pass
								0	3.85	-0.06	0.00	-2.5 to 2.5	Pass
								10	3.85	0.74	0.00	-2.5 to 2.5	Pass
								30	3.85	-0.27	-0.00	-2.5 to 2.5	Pass
								40	3.85	-0.04	0.00	-2.5 to 2.5	Pass
								50	3.85	-0.69	-0.00	-2.5 to 2.5	Pass



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2.6 B4_20MHz

2.6.1 Test Result

Band: 4 / Bandwidth: 20MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	1720	100	0	20	3.27	0.96	0.00	-2.5 to 2.5	Pass			
					3.85	1.59	0.00	-2.5 to 2.5	Pass			
					4.43	1.66	0.00	-2.5 to 2.5	Pass			
				-30	3.85	1.72	0.00	-2.5 to 2.5	Pass			
				-20	3.85	1.76	0.00	-2.5 to 2.5	Pass			
				-10	3.85	1.43	0.00	-2.5 to 2.5	Pass			
				0	3.85	2.82	0.00	-2.5 to 2.5	Pass			
				10	3.85	2.69	0.00	-2.5 to 2.5	Pass			
				30	3.85	1.06	0.00	-2.5 to 2.5	Pass			
				40	3.85	1.92	0.00	-2.5 to 2.5	Pass			
				50	3.85	1.97	0.00	-2.5 to 2.5	Pass			
				1732.5	100	0	20	3.27	1.77	0.00	-2.5 to 2.5	Pass
								3.85	1.54	0.00	-2.5 to 2.5	Pass
								4.43	1.62	0.00	-2.5 to 2.5	Pass
							-30	3.85	0.03	0.00	-2.5 to 2.5	Pass
	-20	3.85	-0.50				-0.00	-2.5 to 2.5	Pass			
	-10	3.85	1.14				0.00	-2.5 to 2.5	Pass			
	0	3.85	0.87				0.00	-2.5 to 2.5	Pass			
	10	3.85	1.26				0.00	-2.5 to 2.5	Pass			
	30	3.85	-0.11				-0.00	-2.5 to 2.5	Pass			
	40	3.85	0.36				0.00	-2.5 to 2.5	Pass			
	50	3.85	-0.53				-0.00	-2.5 to 2.5	Pass			
	1745	100	0				20	3.27	-1.93	-0.00	-2.5 to 2.5	Pass
								3.85	-2.46	-0.00	-2.5 to 2.5	Pass
								4.43	-1.17	-0.00	-2.5 to 2.5	Pass
							-30	3.85	-2.79	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.90	-0.00	-2.5 to 2.5	Pass			
				-10	3.85	-3.32	-0.00	-2.5 to 2.5	Pass			
				0	3.85	-3.88	-0.00	-2.5 to 2.5	Pass			
				10	3.85	-4.26	-0.00	-2.5 to 2.5	Pass			
30				3.85	-3.82	-0.00	-2.5 to 2.5	Pass				
40				3.85	-2.42	-0.00	-2.5 to 2.5	Pass				
50				3.85	-2.05	-0.00	-2.5 to 2.5	Pass				
16QAM				1720	100	0	20	3.27	2.02	0.00	-2.5 to 2.5	Pass
								3.85	1.69	0.00	-2.5 to 2.5	Pass
								4.43	1.66	0.00	-2.5 to 2.5	Pass
							-30	3.85	1.85	0.00	-2.5 to 2.5	Pass
	-20	3.85	2.50				0.00	-2.5 to 2.5	Pass			
	-10	3.85	2.32				0.00	-2.5 to 2.5	Pass			
	0	3.85	2.45				0.00	-2.5 to 2.5	Pass			



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				10	3.85	3.33	0.00	-2.5 to 2.5	Pass			
				30	3.85	1.29	0.00	-2.5 to 2.5	Pass			
				40	3.85	1.73	0.00	-2.5 to 2.5	Pass			
				50	3.85	1.62	0.00	-2.5 to 2.5	Pass			
	1732.5	100	0	20	3.27	1.02	0.00	-2.5 to 2.5	Pass			
3.85					0.87	0.00	-2.5 to 2.5	Pass				
4.43					0.92	0.00	-2.5 to 2.5	Pass				
							-30	3.85	-0.82	-0.00	-2.5 to 2.5	Pass
							-20	3.85	1.26	0.00	-2.5 to 2.5	Pass
							-10	3.85	1.02	0.00	-2.5 to 2.5	Pass
							0	3.85	-0.70	-0.00	-2.5 to 2.5	Pass
							10	3.85	0.77	0.00	-2.5 to 2.5	Pass
							30	3.85	0.64	0.00	-2.5 to 2.5	Pass
							40	3.85	0.44	0.00	-2.5 to 2.5	Pass
							50	3.85	0.93	0.00	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-3.89	-0.00	-2.5 to 2.5	Pass			
3.85					-1.49	-0.00	-2.5 to 2.5	Pass				
4.43					-3.85	-0.00	-2.5 to 2.5	Pass				
							-30	3.85	-2.60	-0.00	-2.5 to 2.5	Pass
							-20	3.85	-1.44	-0.00	-2.5 to 2.5	Pass
							-10	3.85	-4.05	-0.00	-2.5 to 2.5	Pass
							0	3.85	-1.99	-0.00	-2.5 to 2.5	Pass
							10	3.85	-3.49	-0.00	-2.5 to 2.5	Pass
							30	3.85	-2.30	-0.00	-2.5 to 2.5	Pass
							40	3.85	-2.89	-0.00	-2.5 to 2.5	Pass
							50	3.85	-2.53	-0.00	-2.5 to 2.5	Pass



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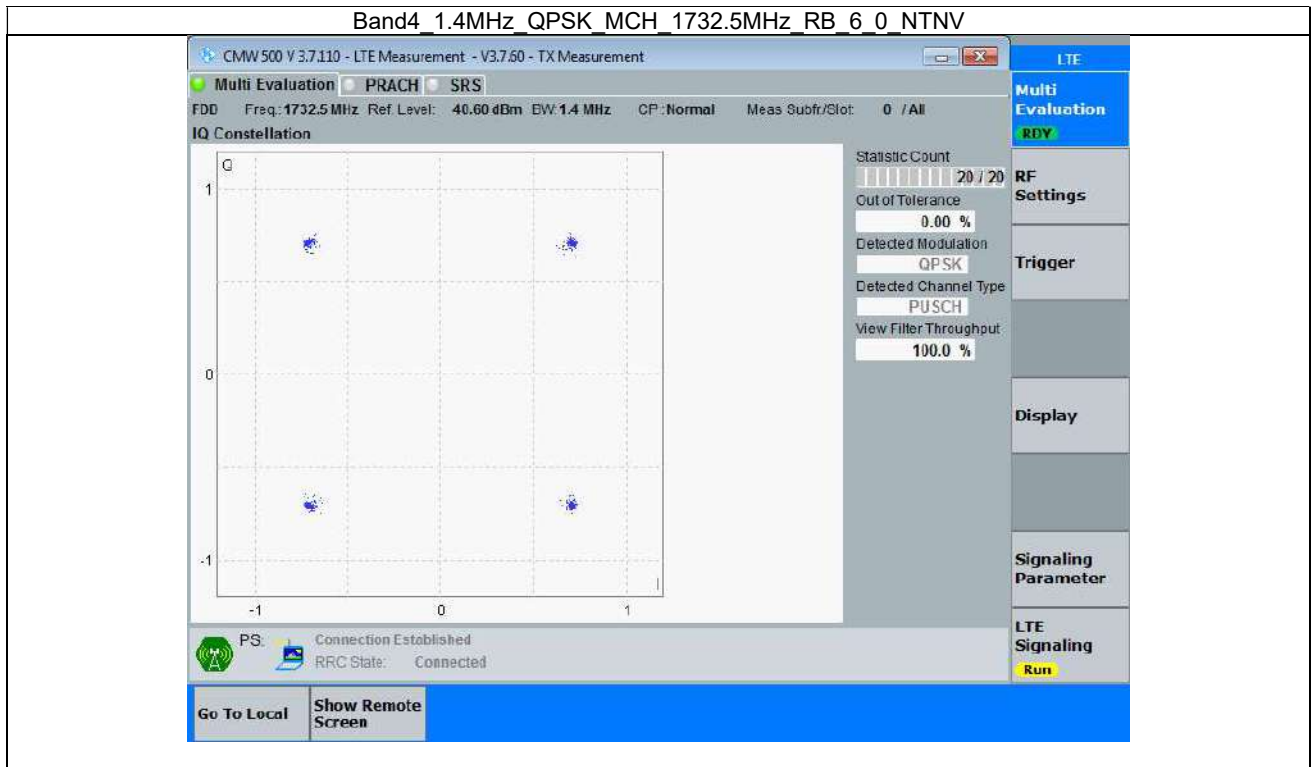
3. Modulation Characteristics

3.1 B4_1.4MHz

3.1.1 Test Result

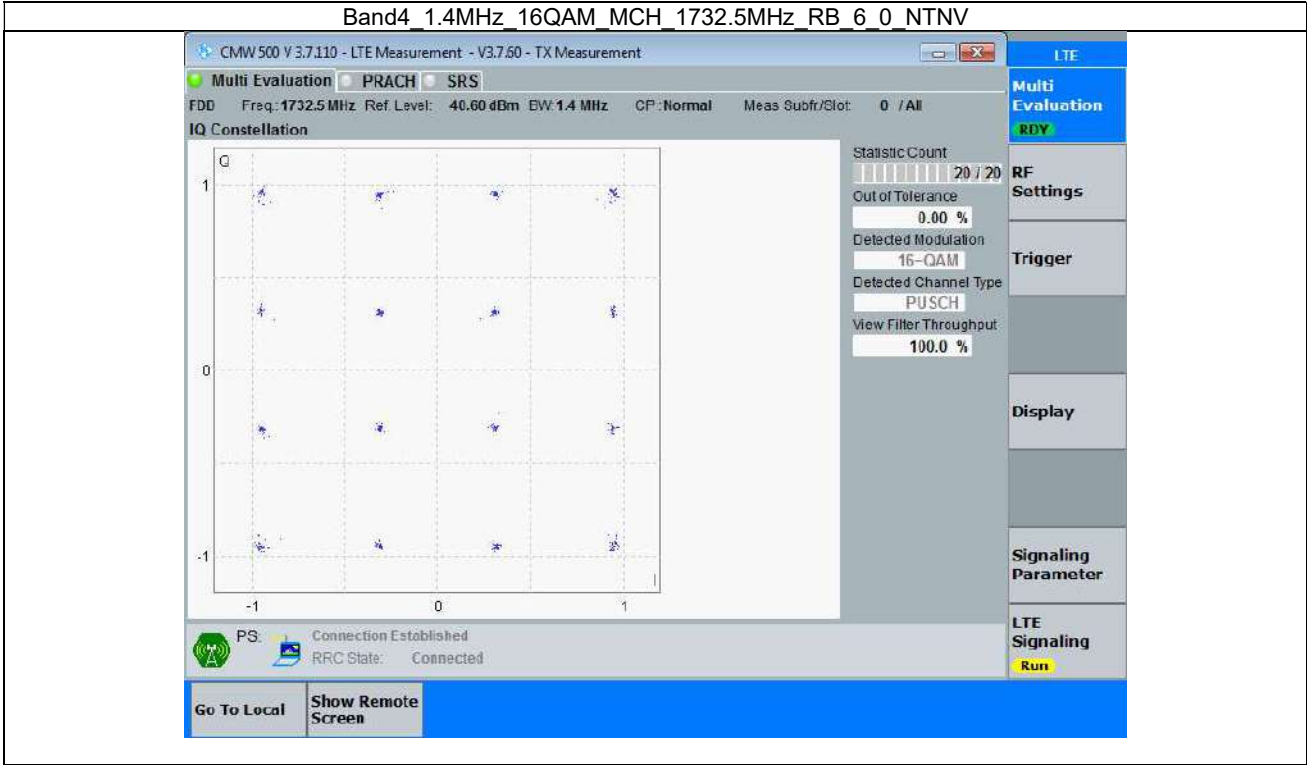
Band: 4 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 Test Graph



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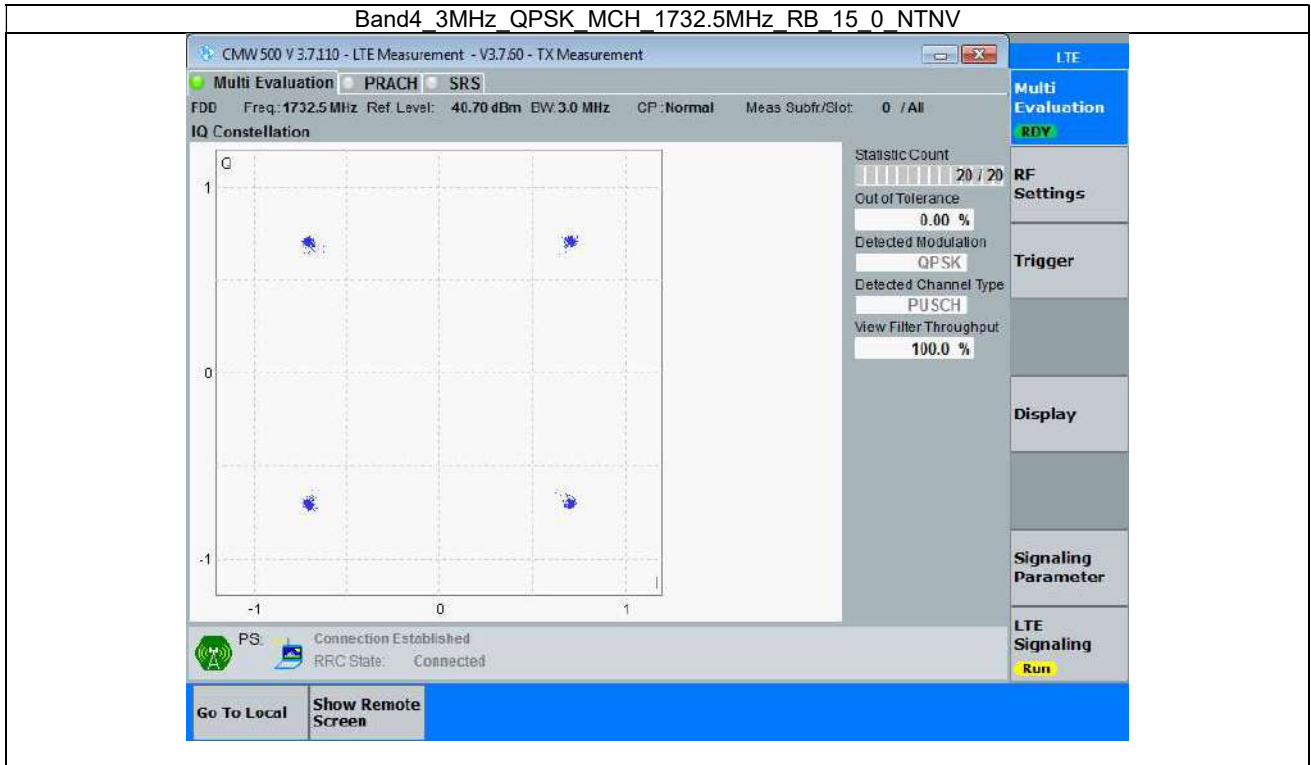
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3.2 B4_3MHz

3.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

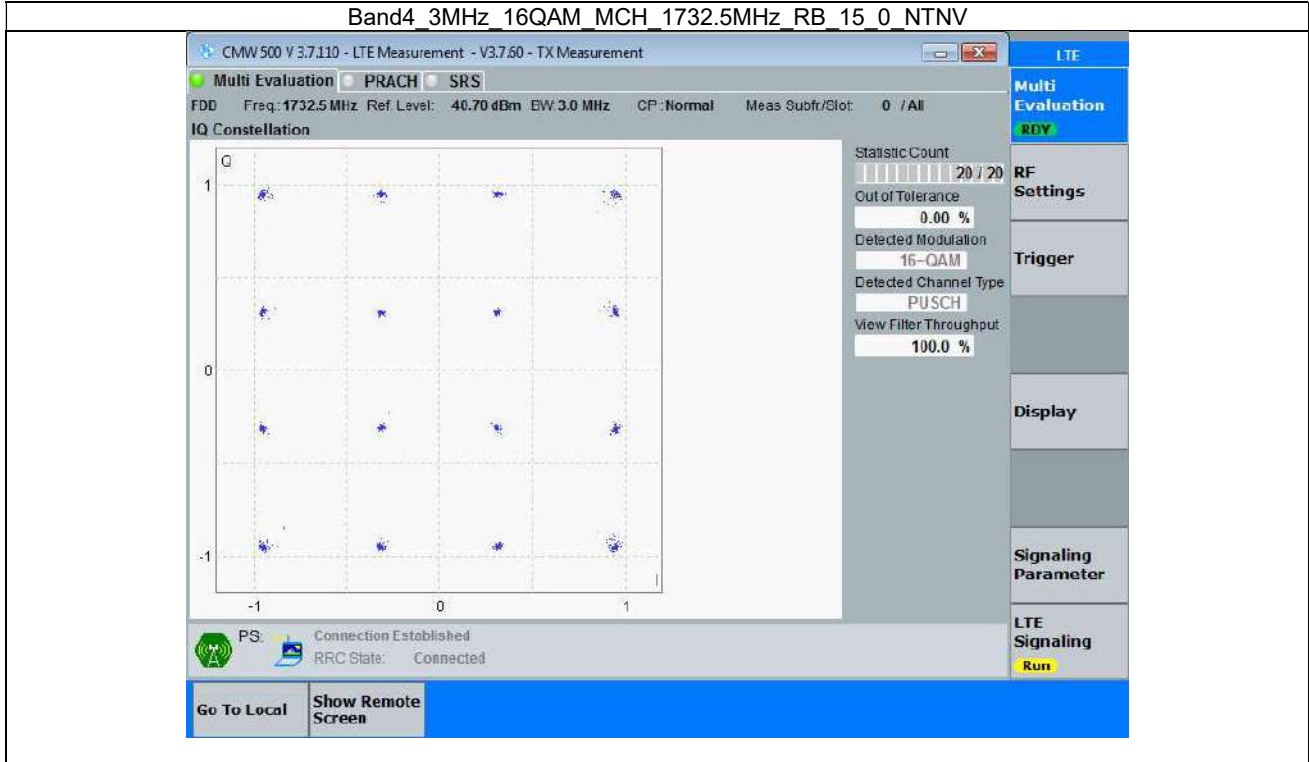


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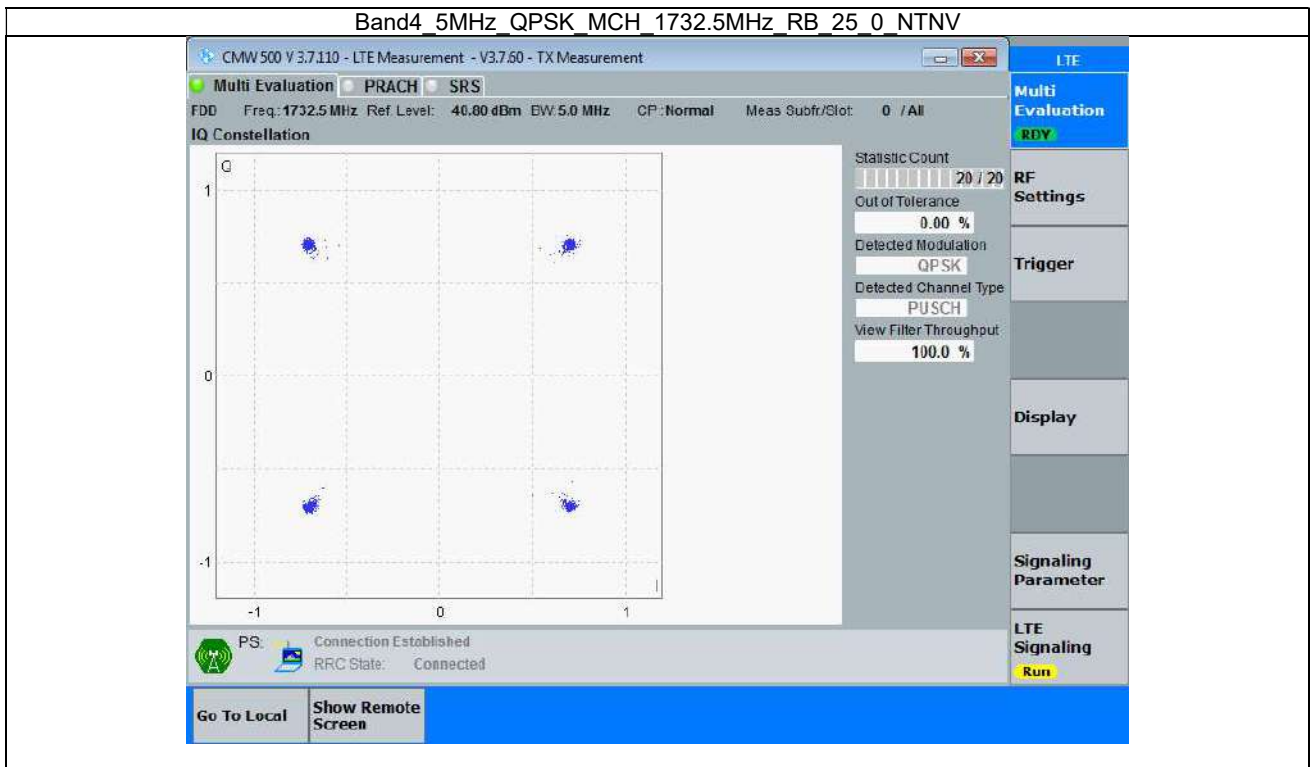
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3.3 B4_5MHz

3.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

3.3.2 Test Graph

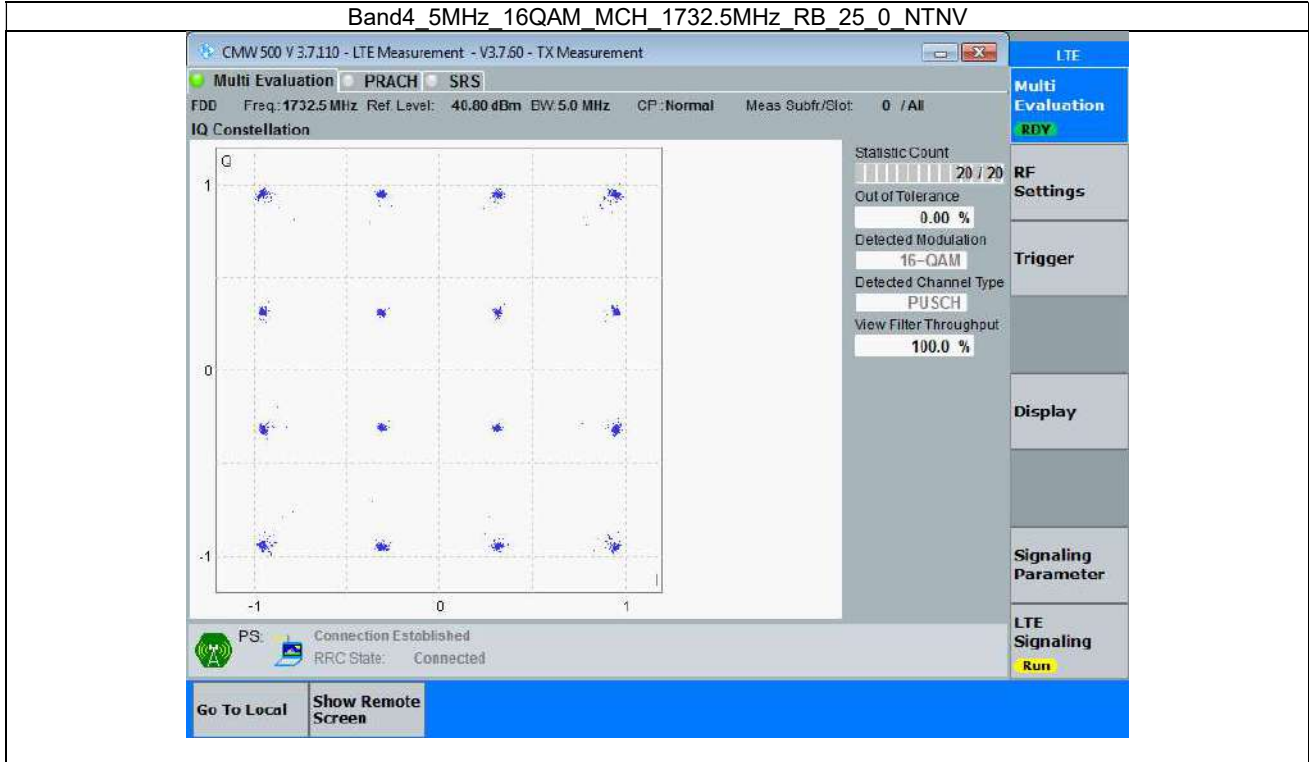


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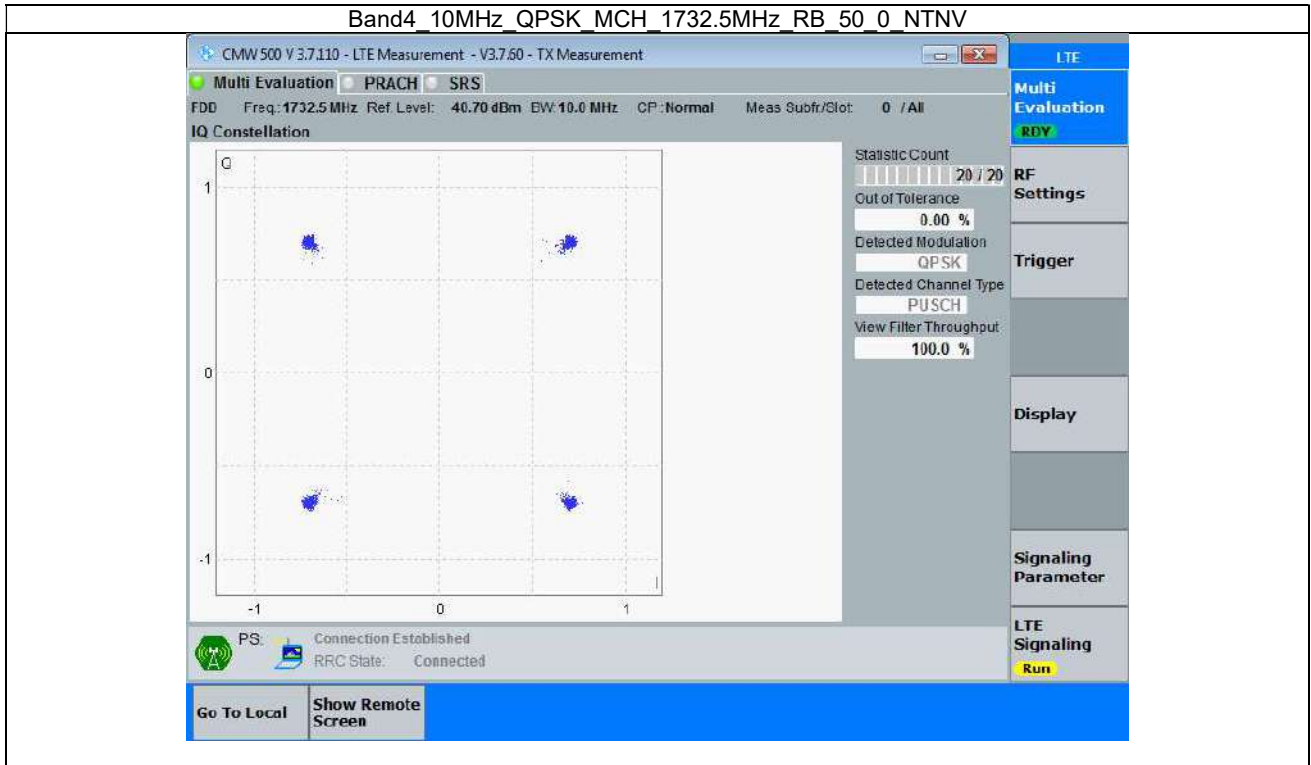
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3.4 B4_10MHz

3.4.1 Test Result

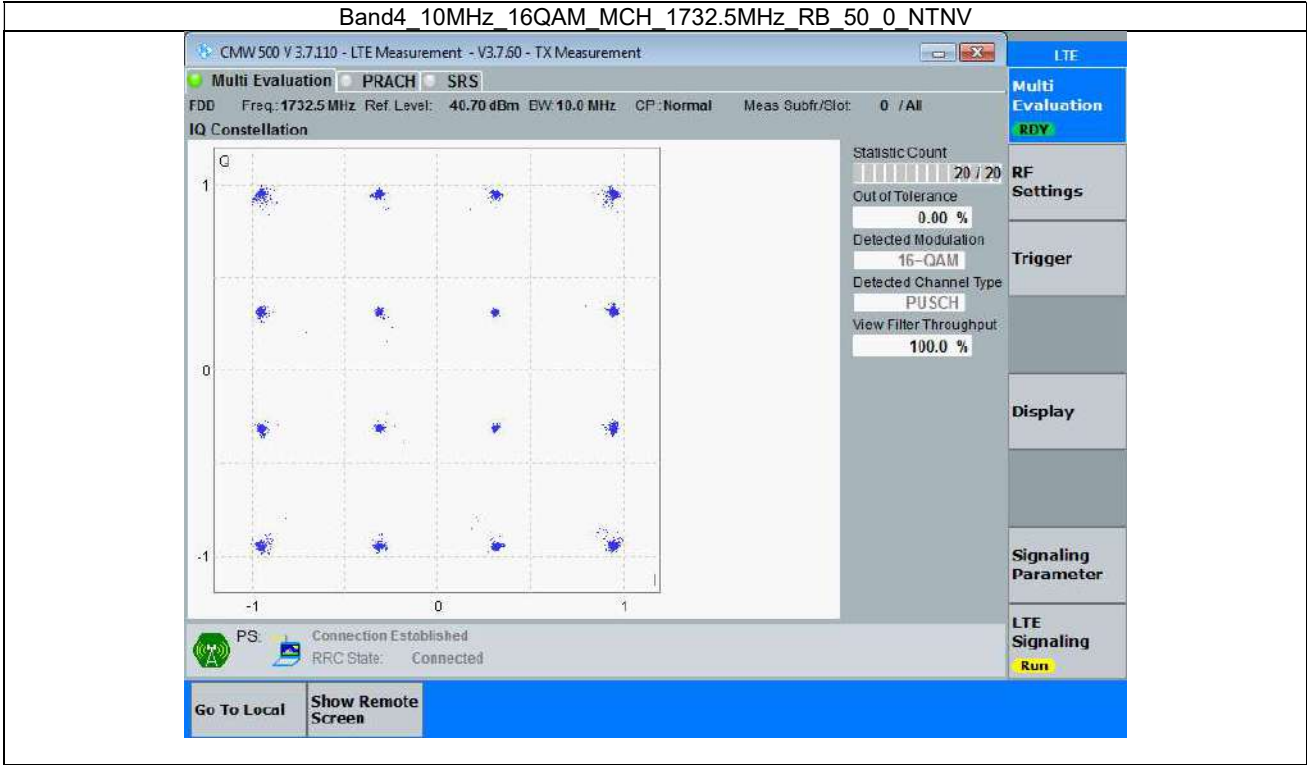
Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.4.2 Test Graph



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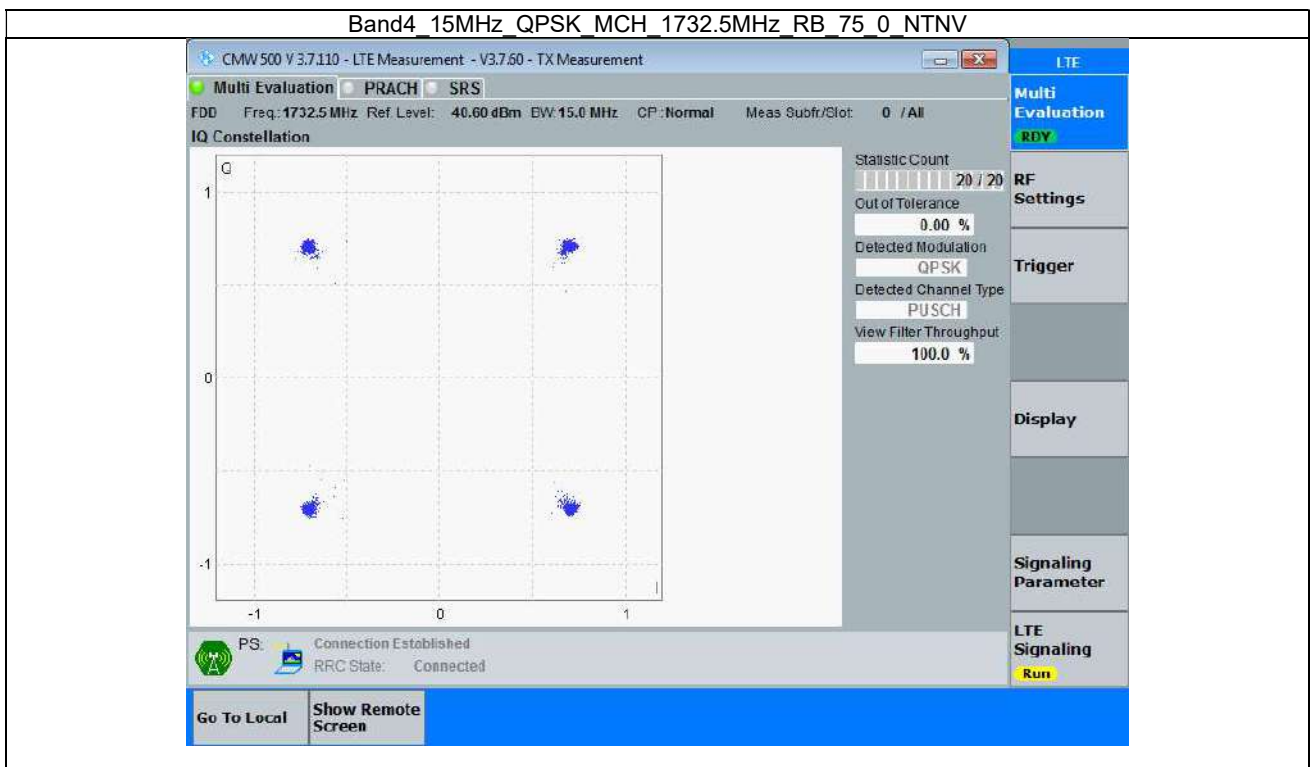
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3.5 B4_15MHz

3.5.1 Test Result

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

3.5.2 Test Graph

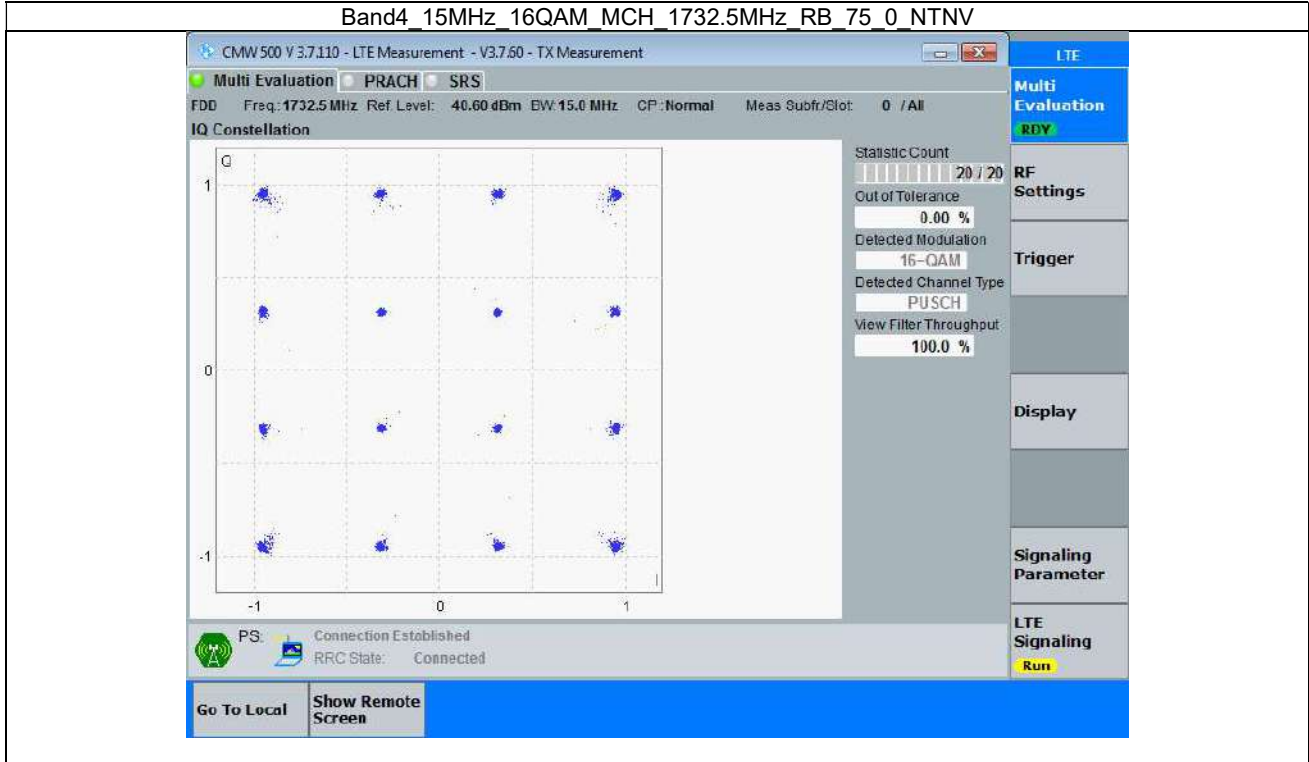


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3.6 B4_20MHz

3.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

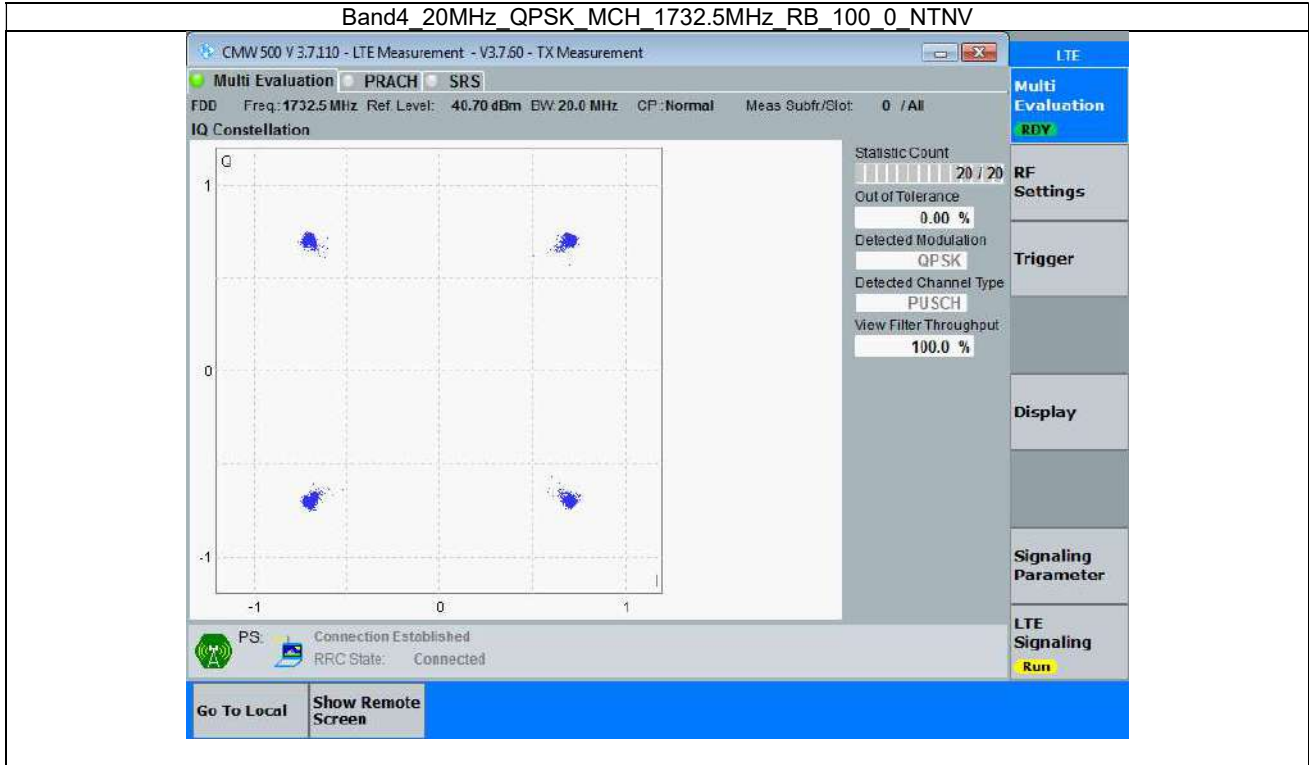


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3.6.2 Test Graph

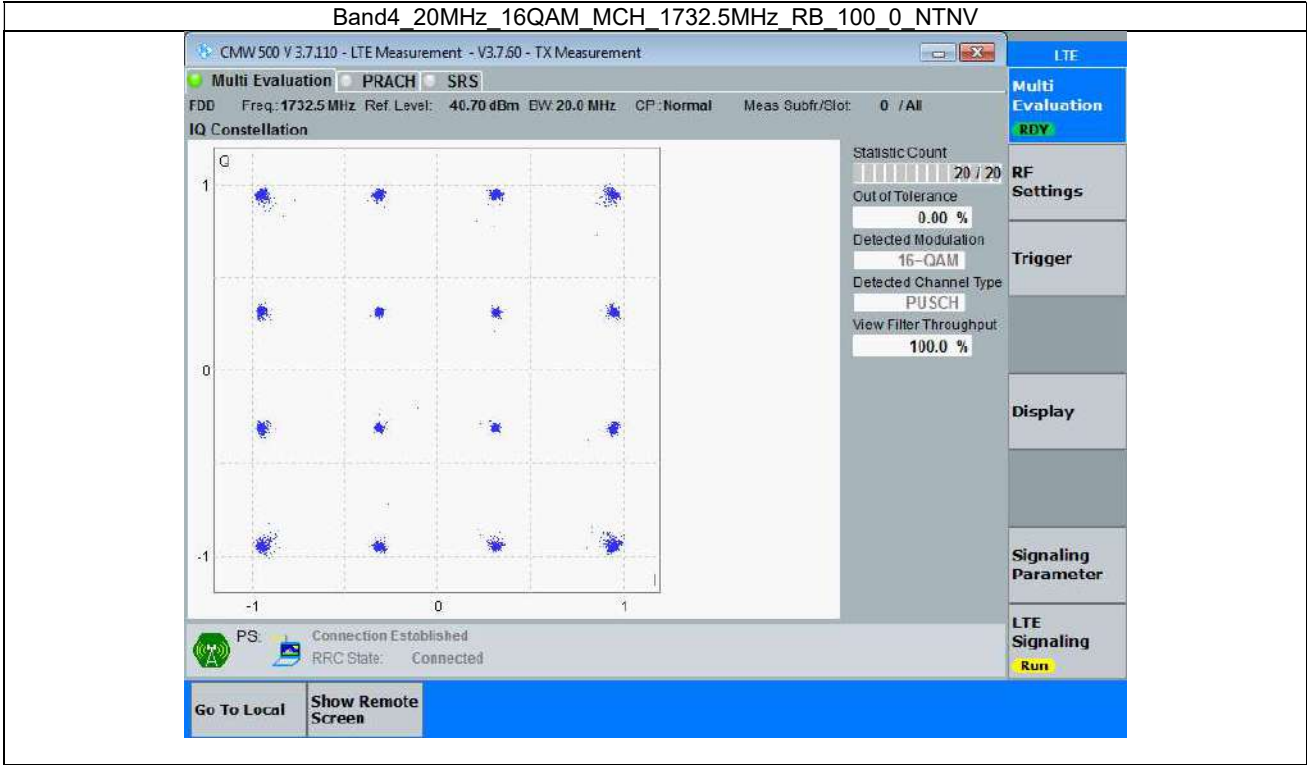


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4. 99% & 26dB Bandwidth

4.1 Band4_OBW

4.1.1 Test Result

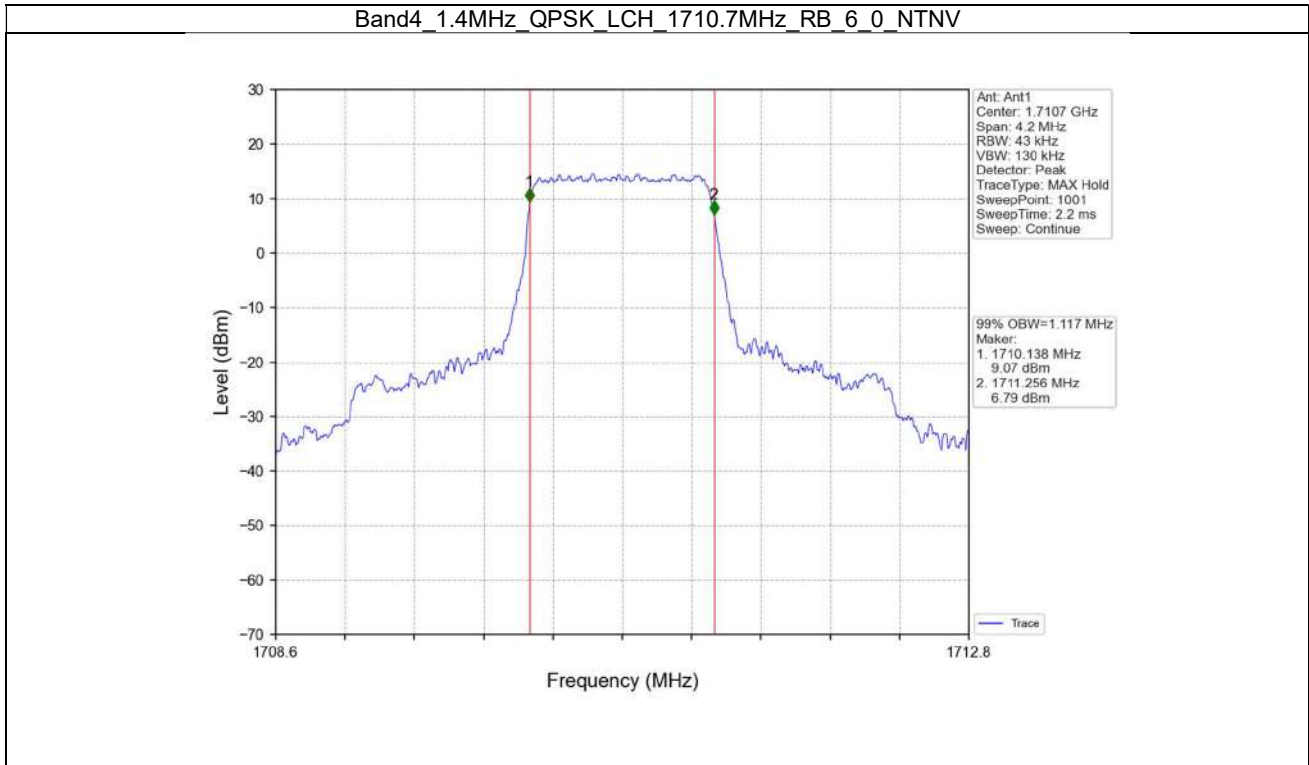
Band: 4 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.117	Pass
		1732.5	6	0	1.117	Pass
		1754.3	6	0	1.117	Pass
	16QAM	1710.7	6	0	1.110	Pass
		1732.5	6	0	1.109	Pass
		1754.3	6	0	1.112	Pass
3	QPSK	1711.5	15	0	2.741	Pass
		1732.5	15	0	2.753	Pass
		1753.5	15	0	2.751	Pass
	16QAM	1711.5	15	0	2.746	Pass
		1732.5	15	0	2.745	Pass
		1753.5	15	0	2.745	Pass
5	QPSK	1712.5	25	0	4.557	Pass
		1732.5	25	0	4.543	Pass
		1752.5	25	0	4.562	Pass
	16QAM	1712.5	25	0	4.576	Pass
		1732.5	25	0	4.561	Pass
		1752.5	25	0	4.550	Pass
10	QPSK	1715	50	0	9.028	Pass
		1732.5	50	0	9.041	Pass
		1750	50	0	9.075	Pass
	16QAM	1715	50	0	9.047	Pass
		1732.5	50	0	9.035	Pass
		1750	50	0	9.051	Pass
15	QPSK	1717.5	75	0	13.594	Pass
		1732.5	75	0	13.549	Pass
		1747.5	75	0	13.604	Pass
	16QAM	1717.5	75	0	13.575	Pass
		1732.5	75	0	13.584	Pass
		1747.5	75	0	13.584	Pass
20	QPSK	1720	100	0	18.042	Pass
		1732.5	100	0	18.101	Pass
		1745	100	0	18.087	Pass
	16QAM	1720	100	0	18.084	Pass
		1732.5	100	0	18.072	Pass
		1745	100	0	18.211	Pass



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4.1.2 Test Graph



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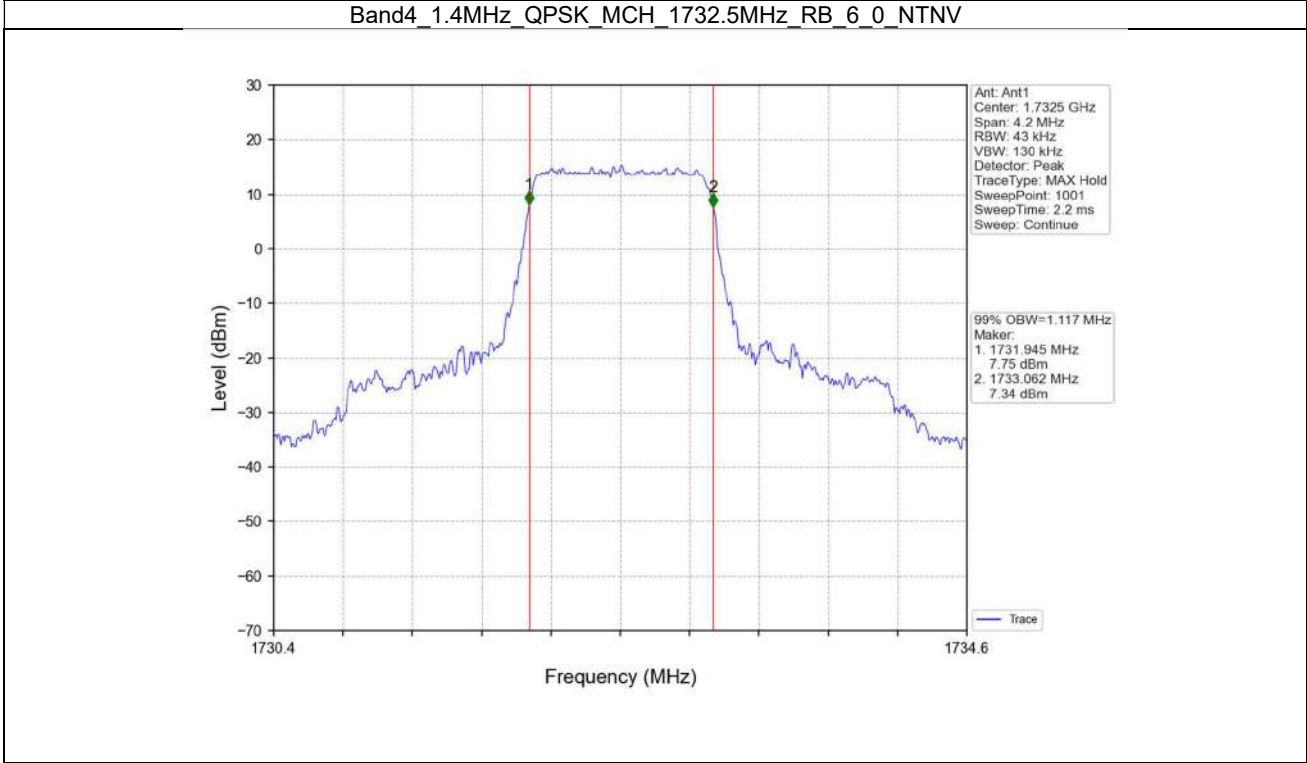
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

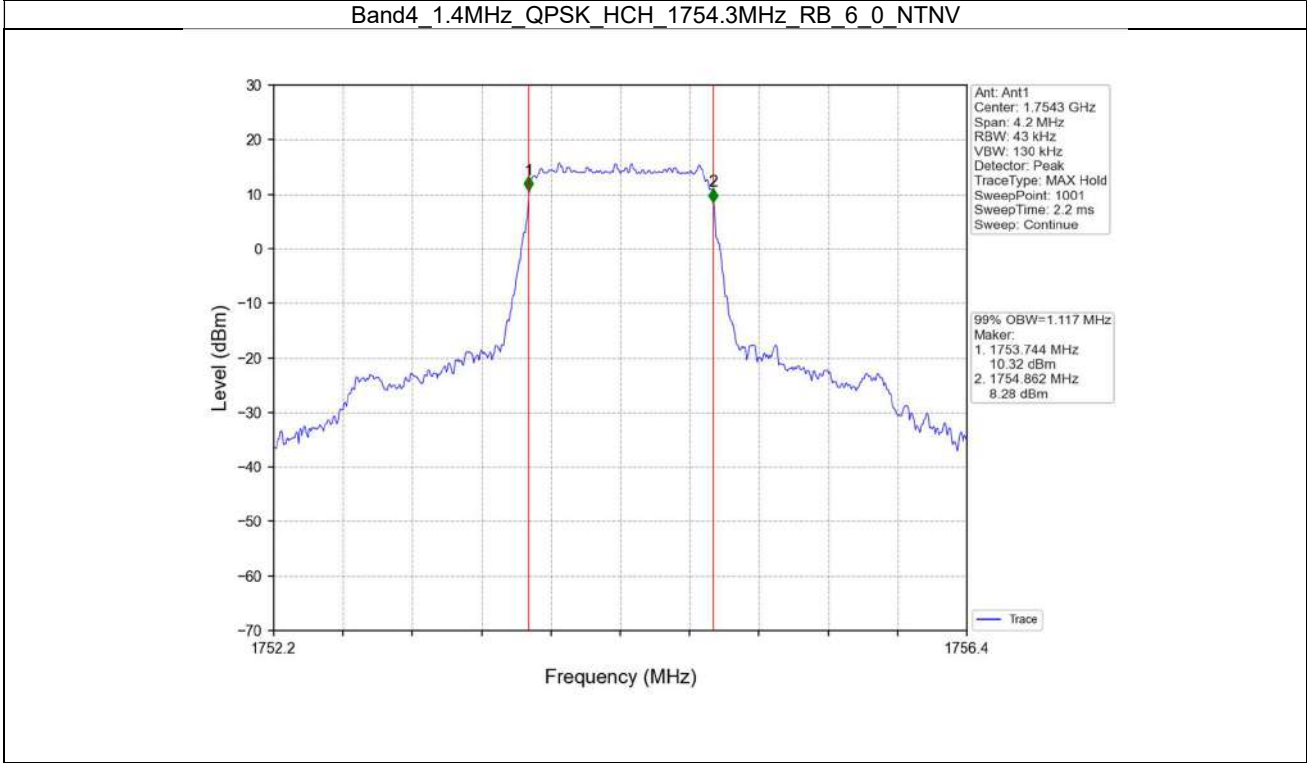


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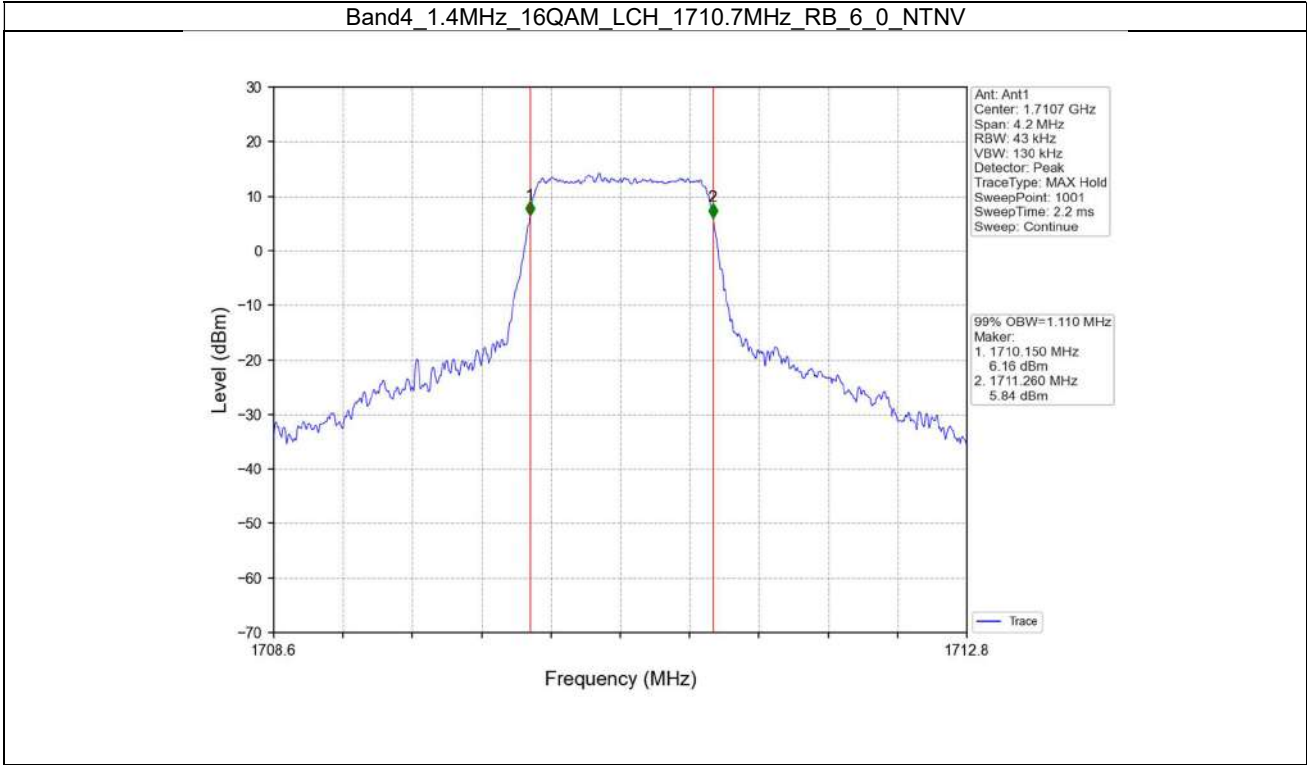
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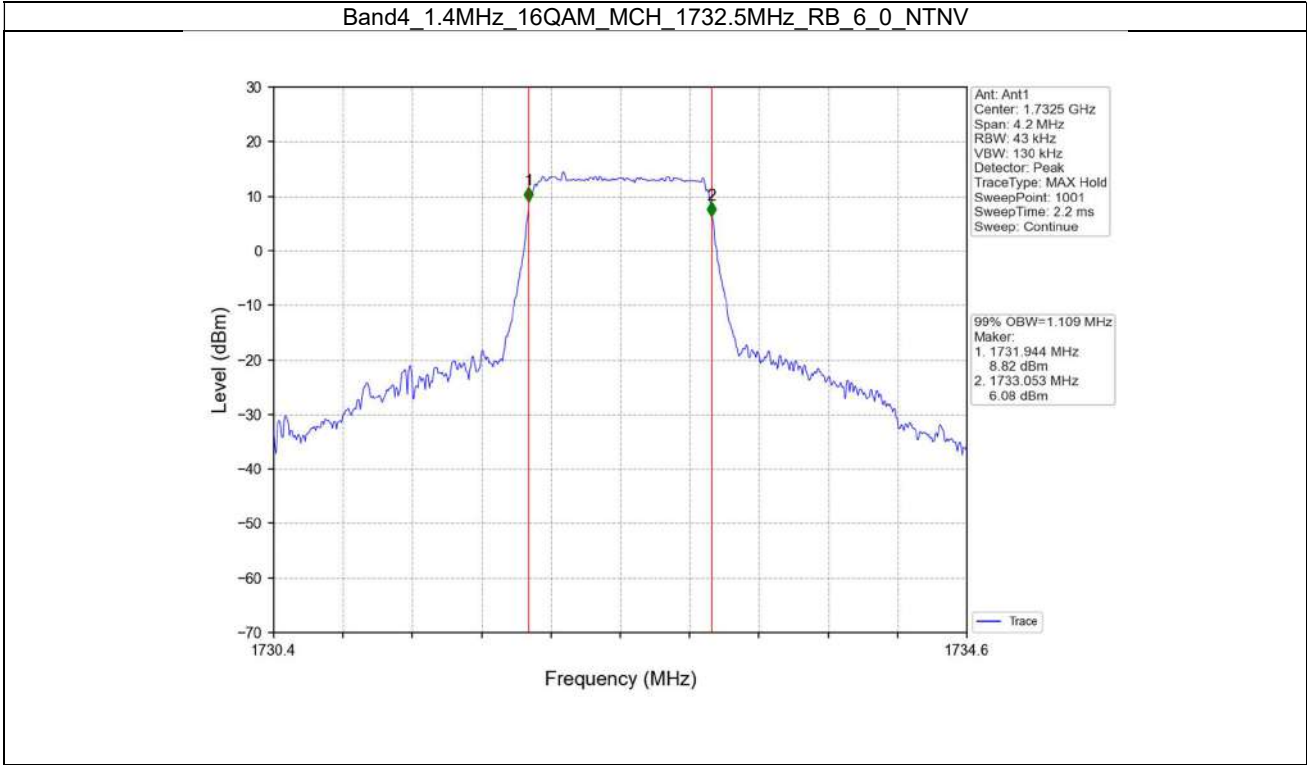
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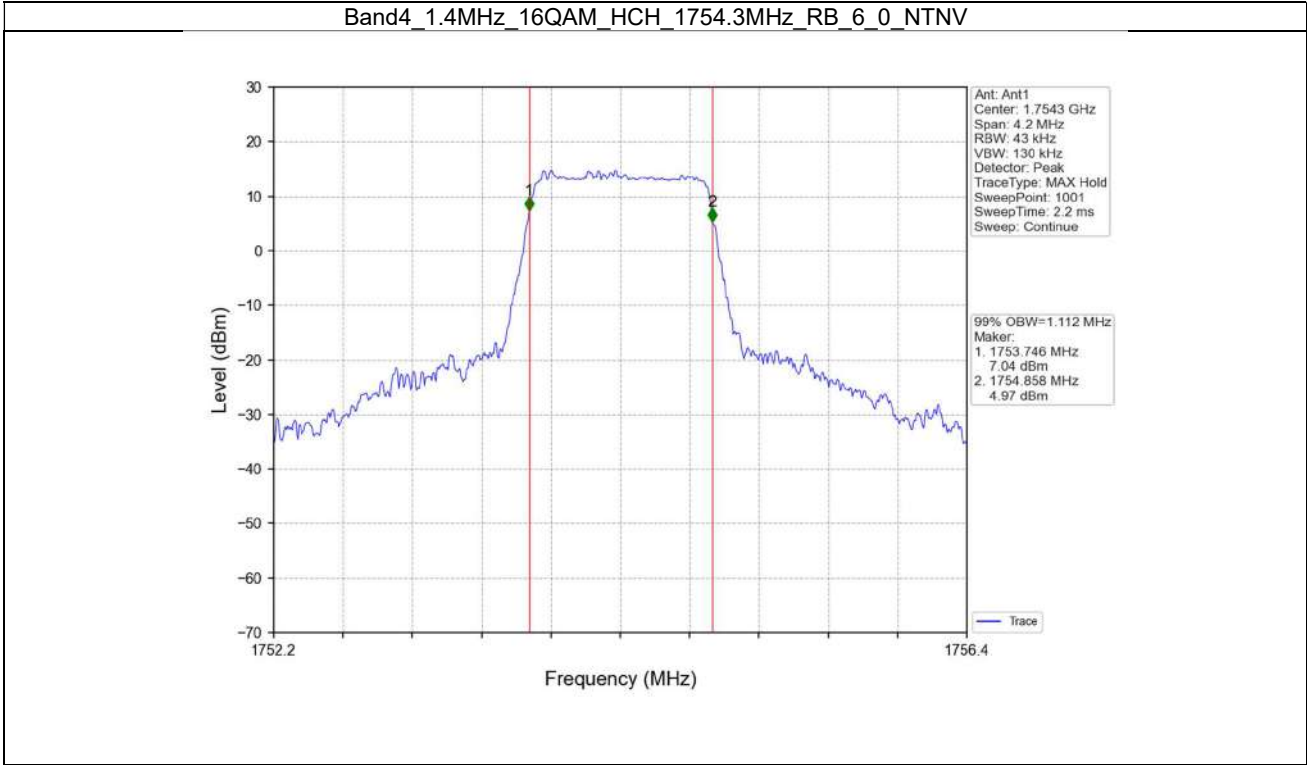
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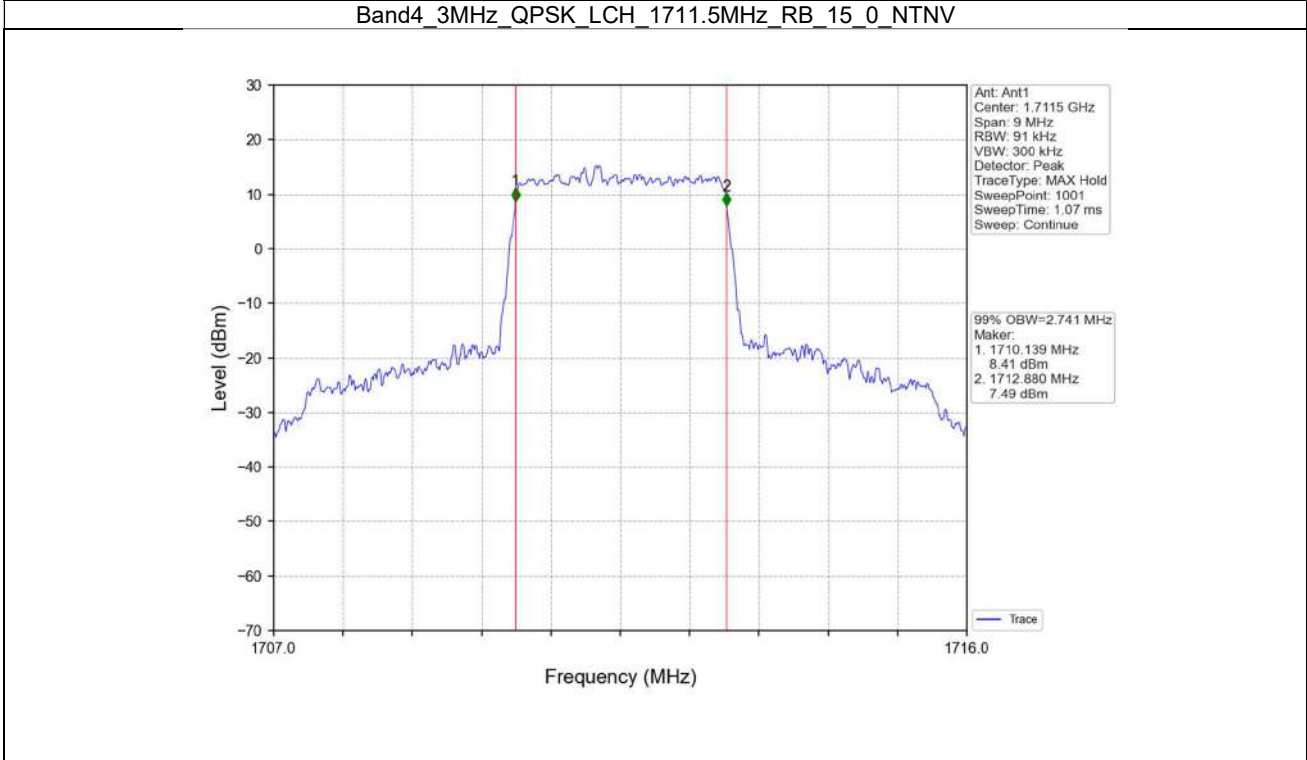


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Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



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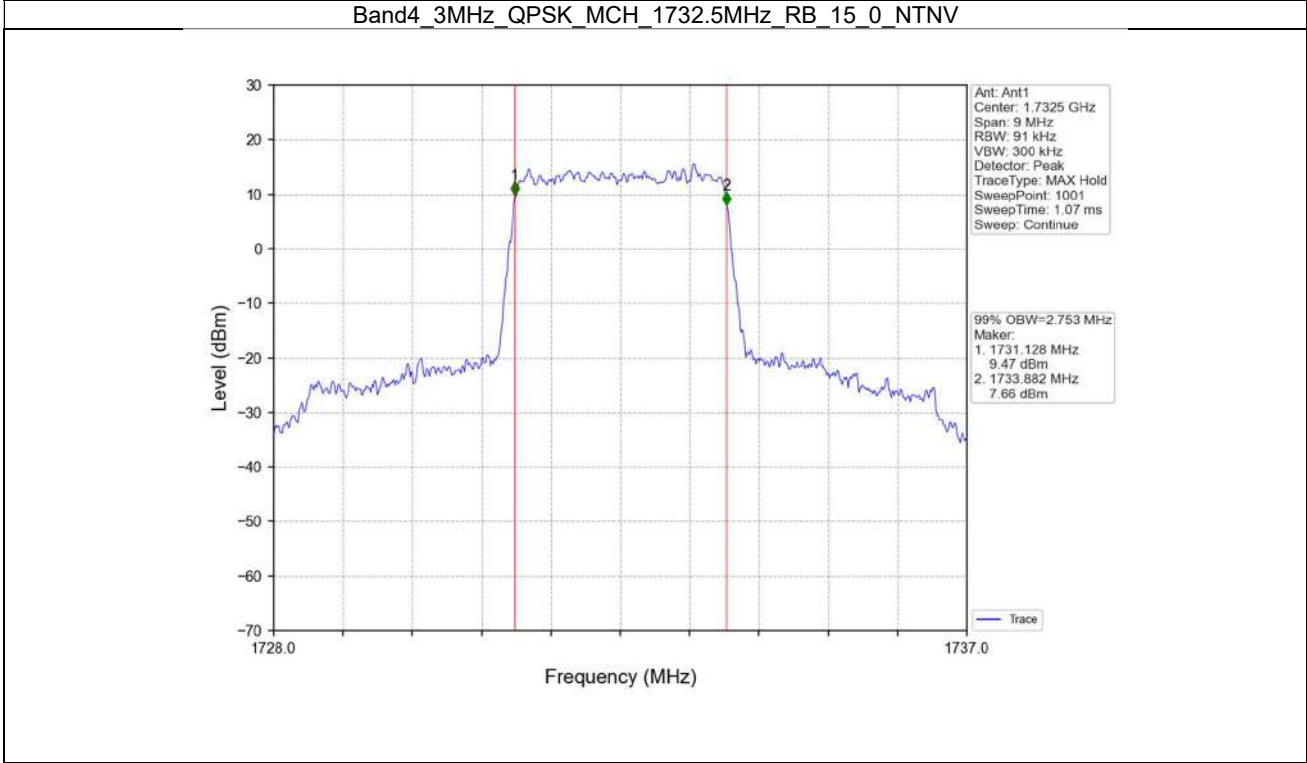
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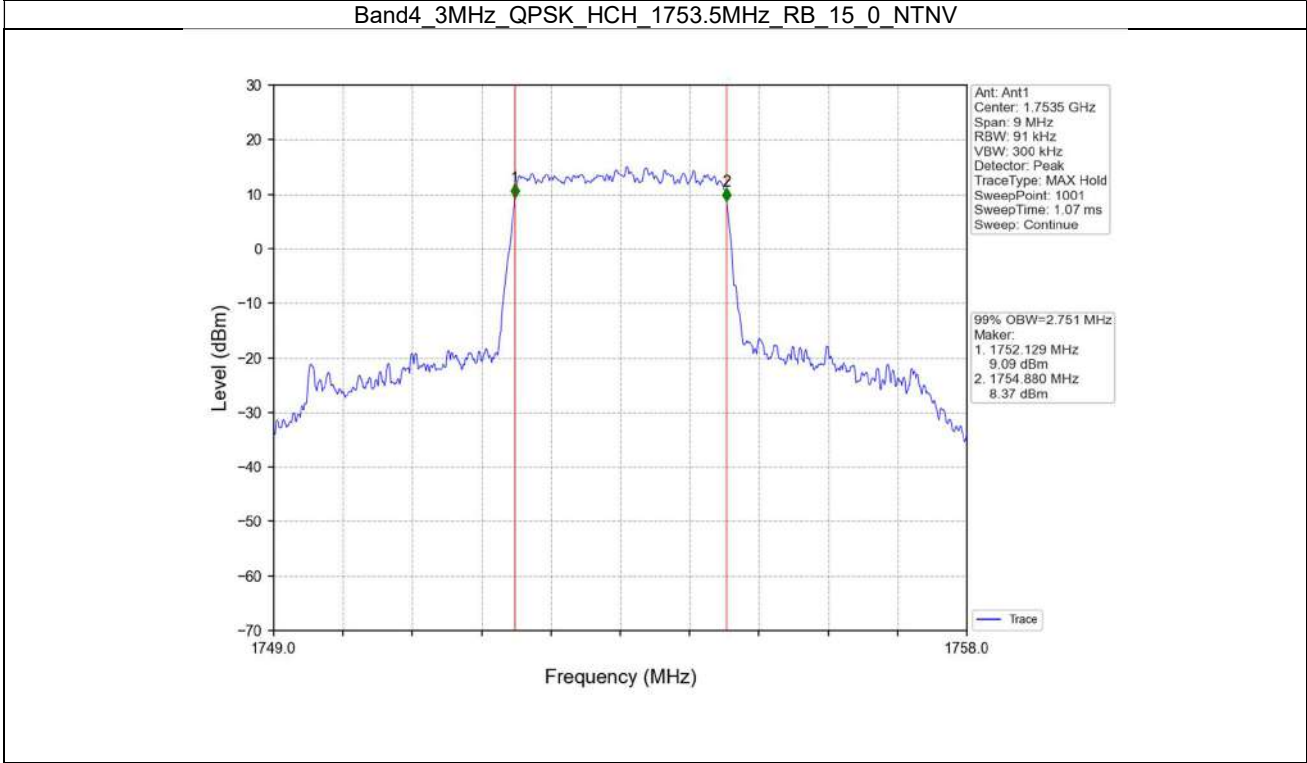
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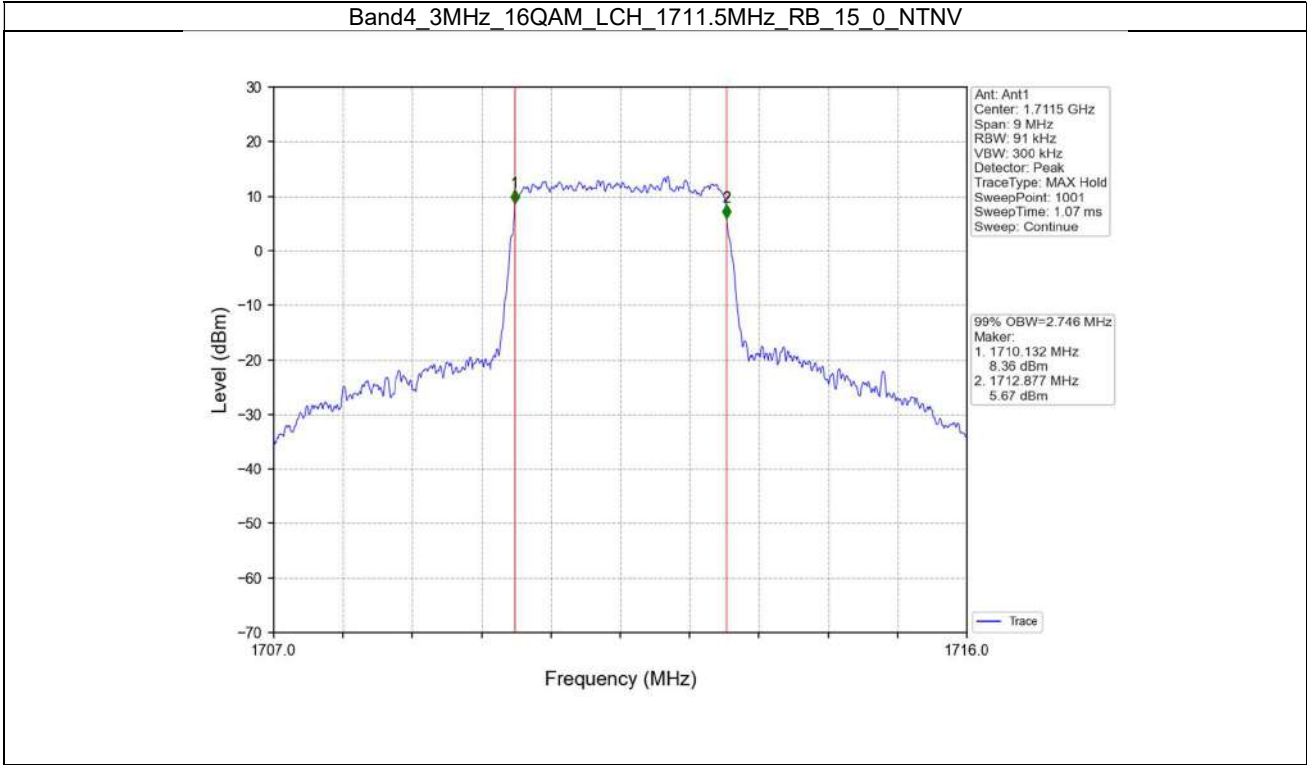
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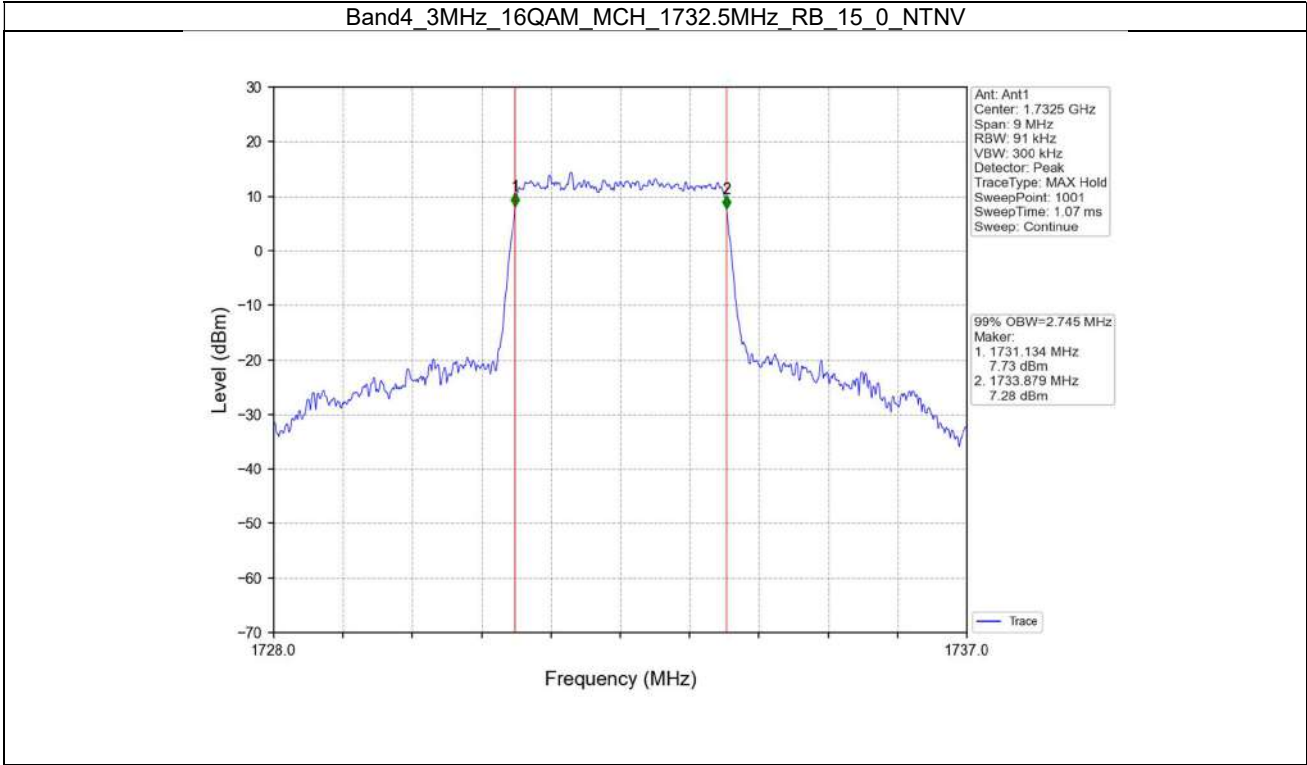


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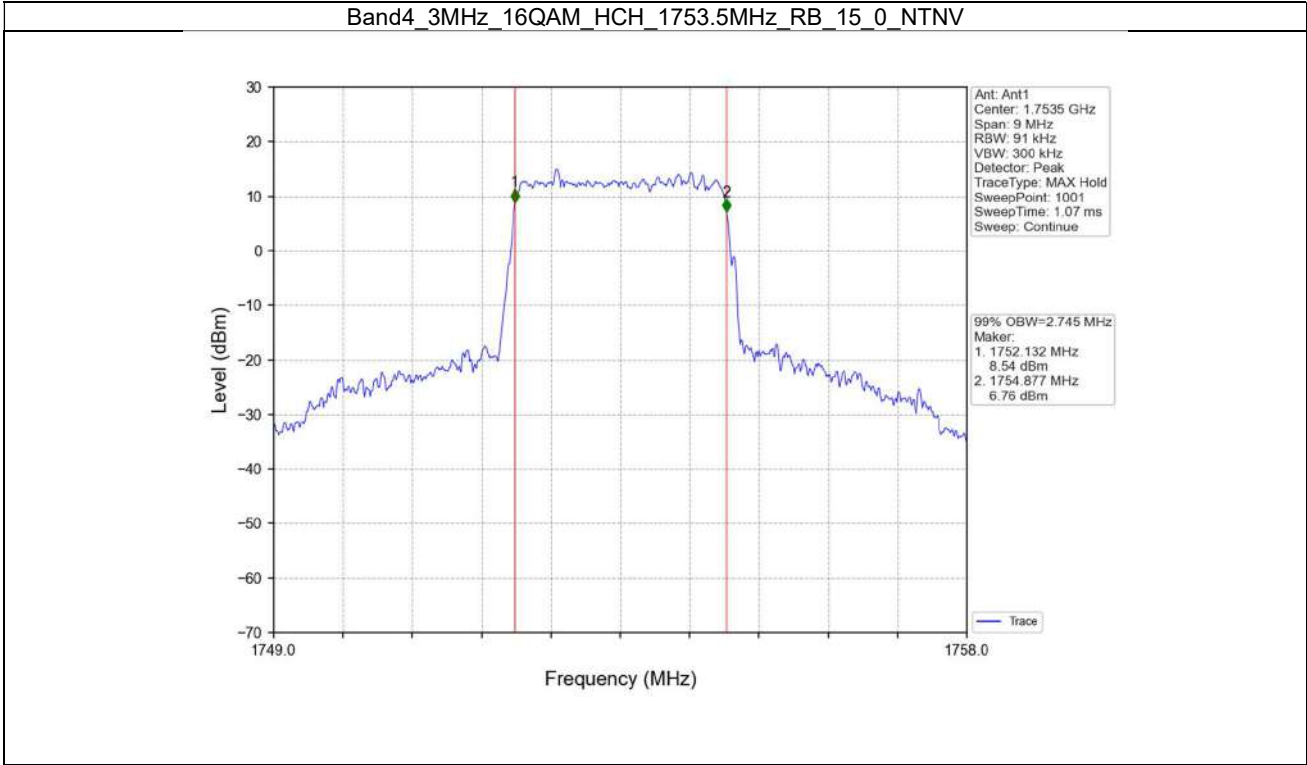
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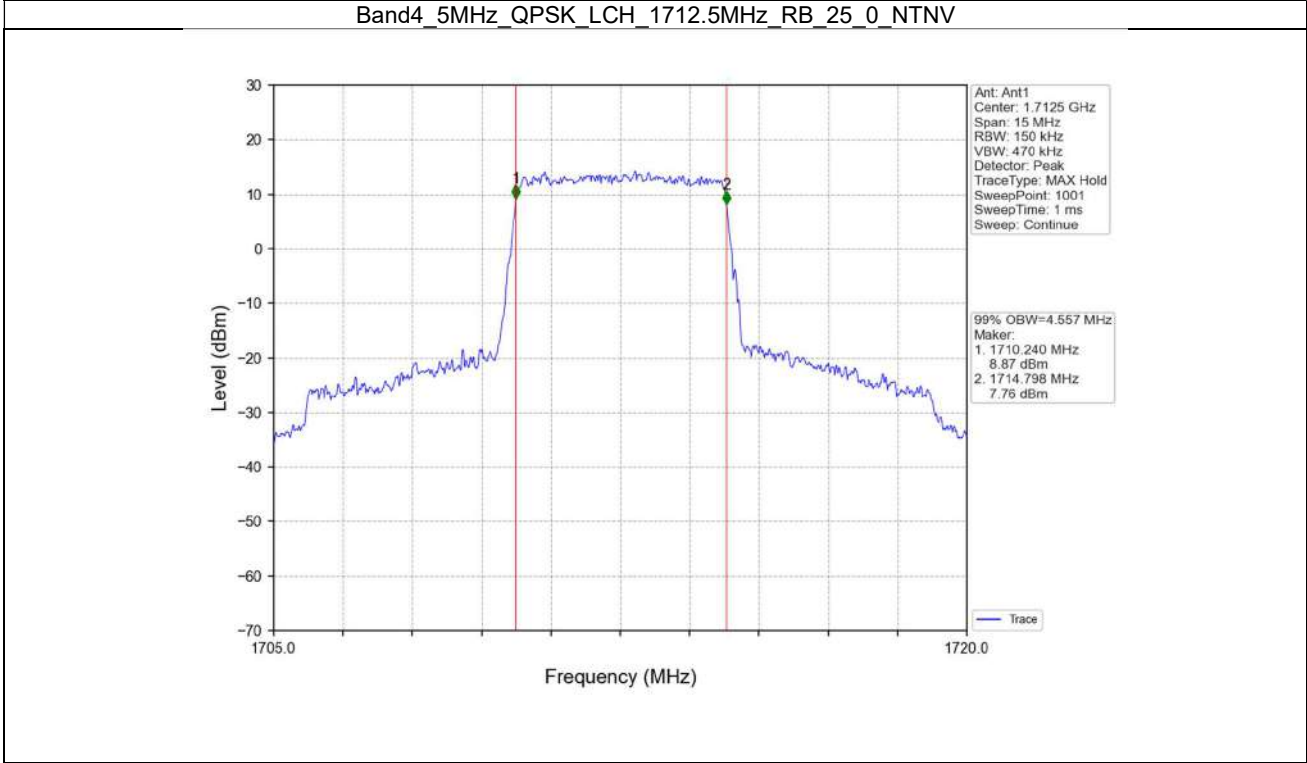
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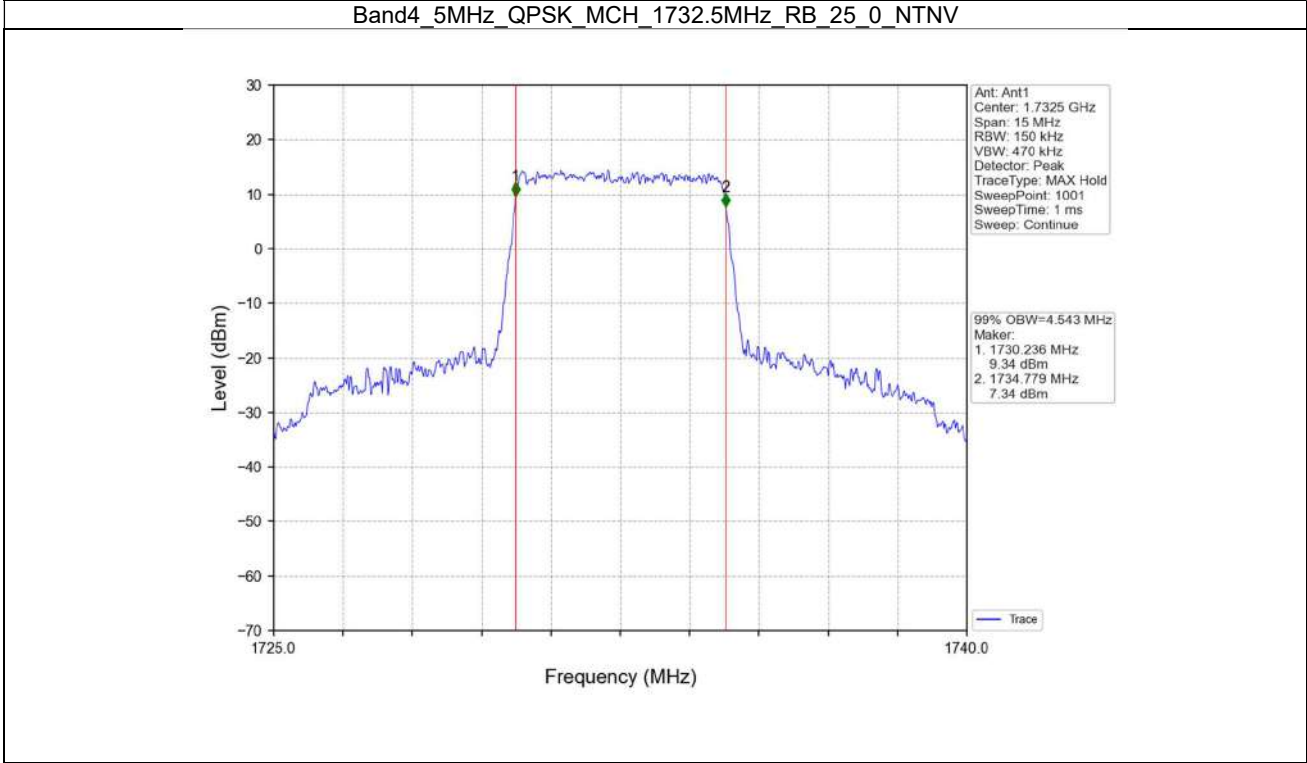
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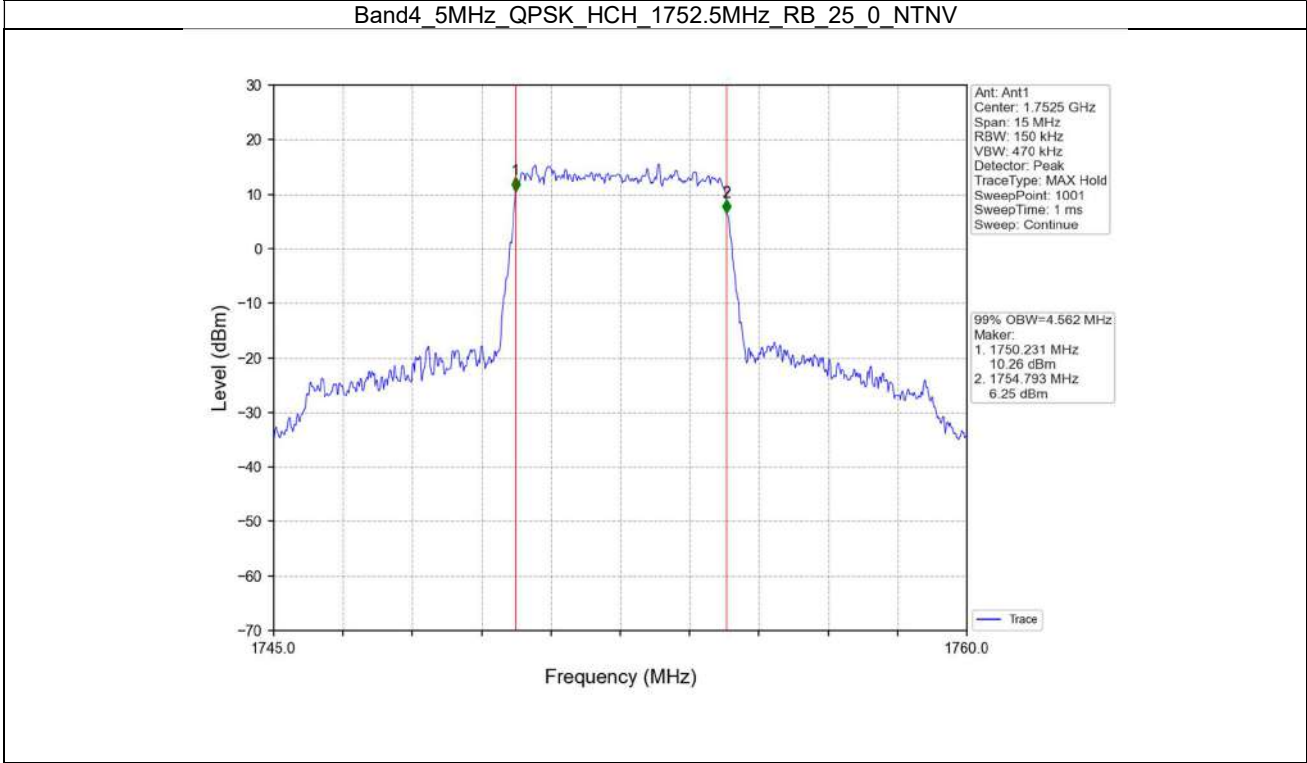
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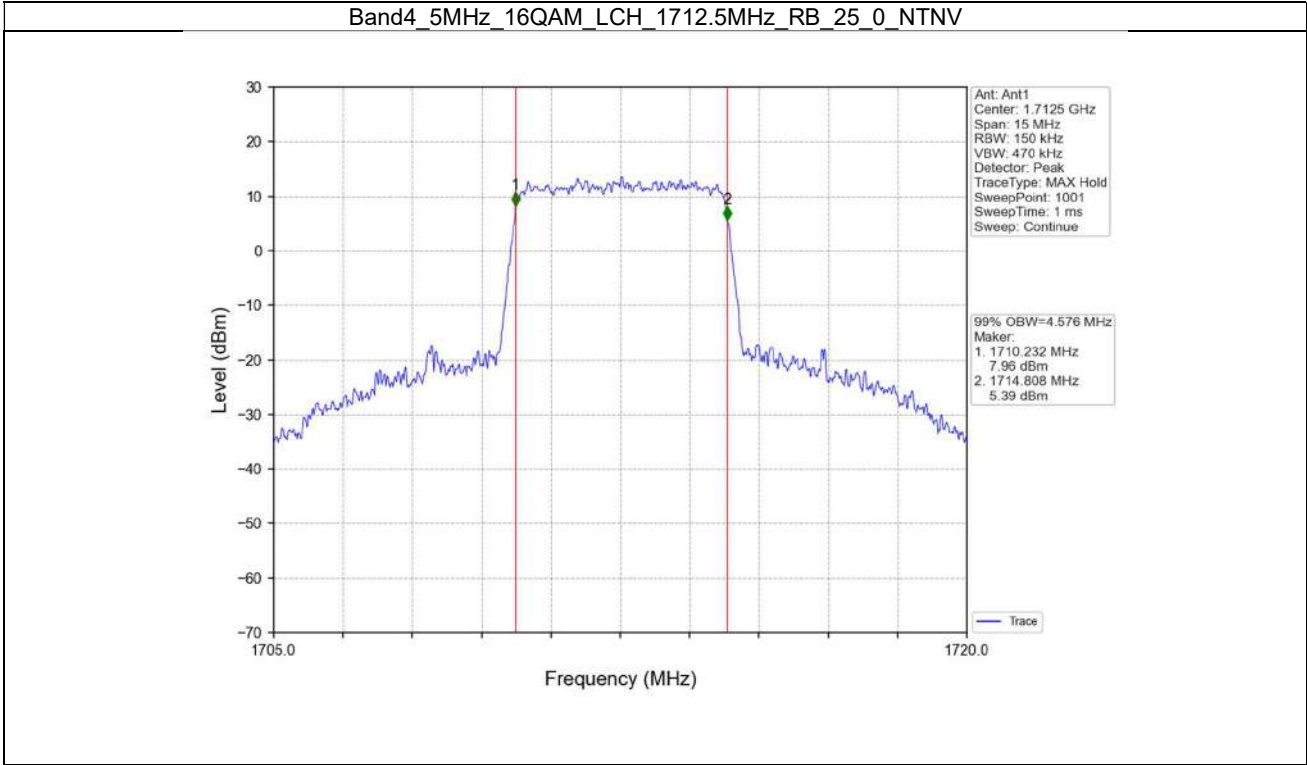
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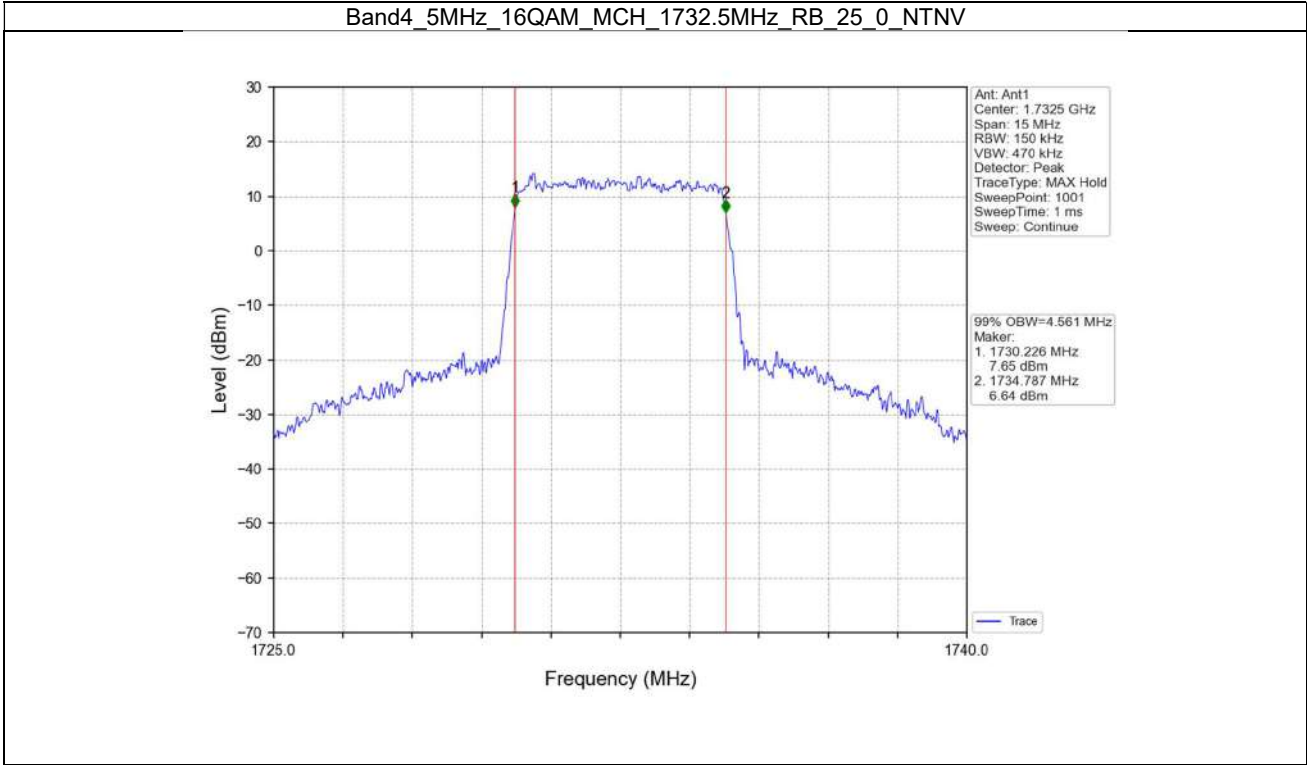
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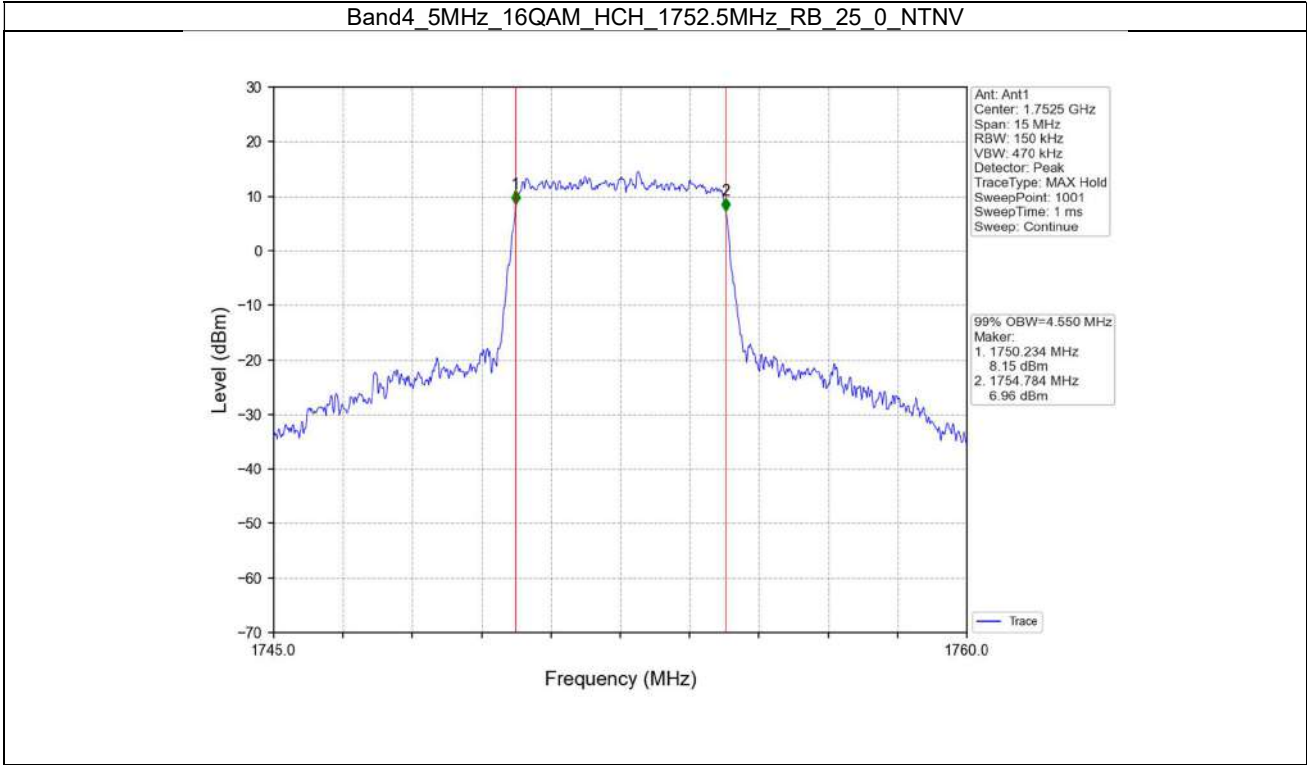


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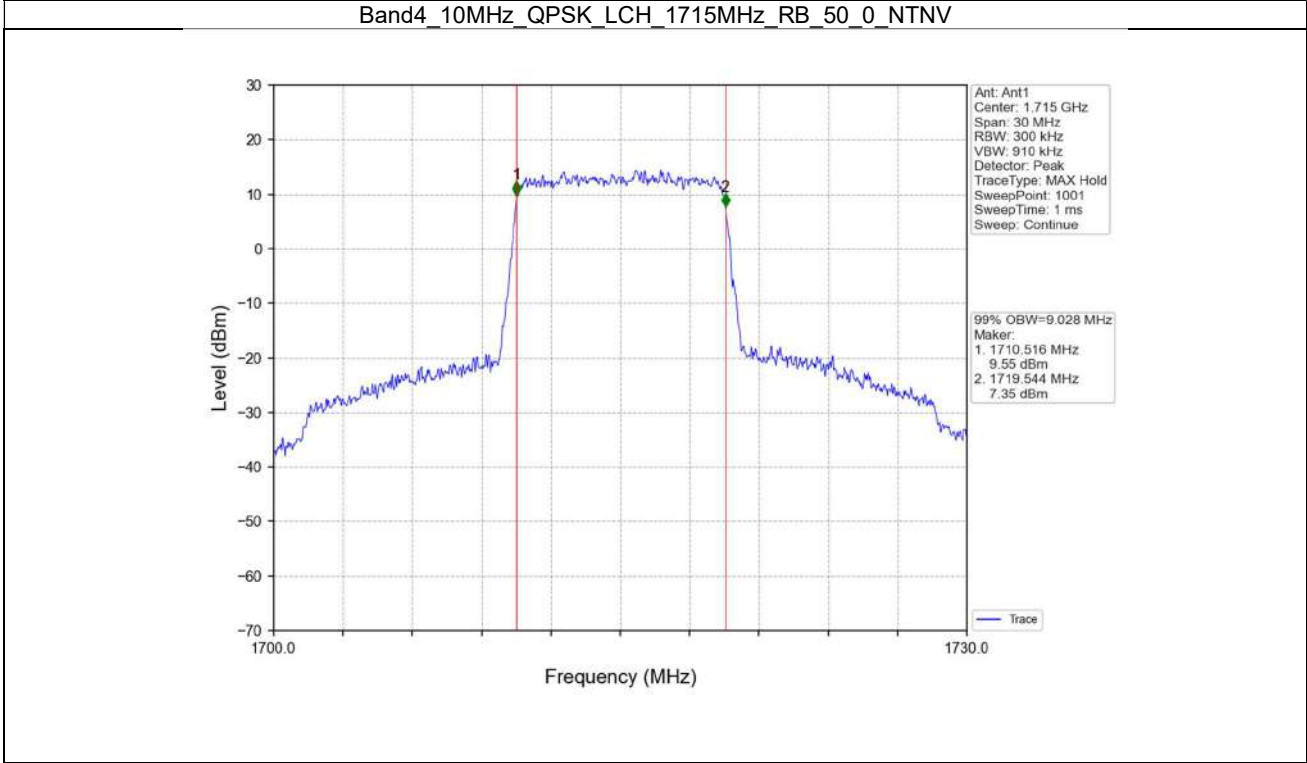


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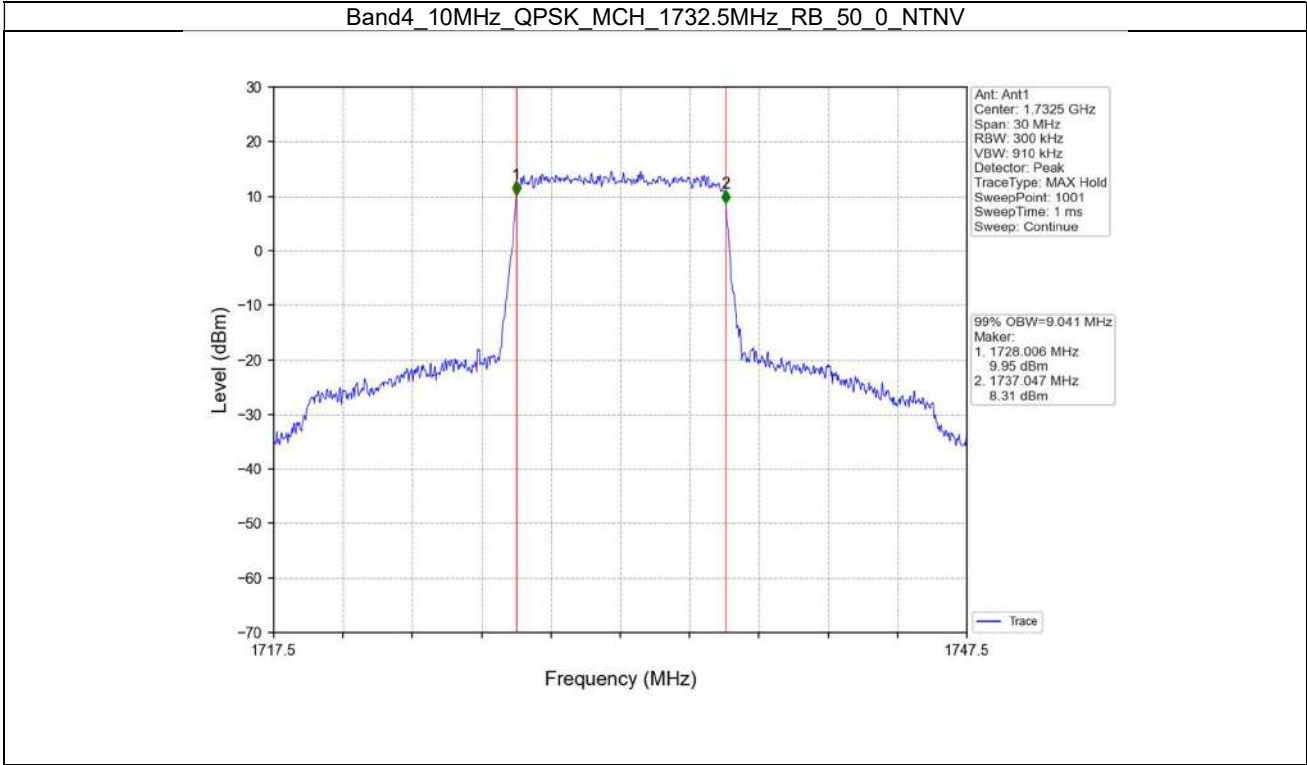
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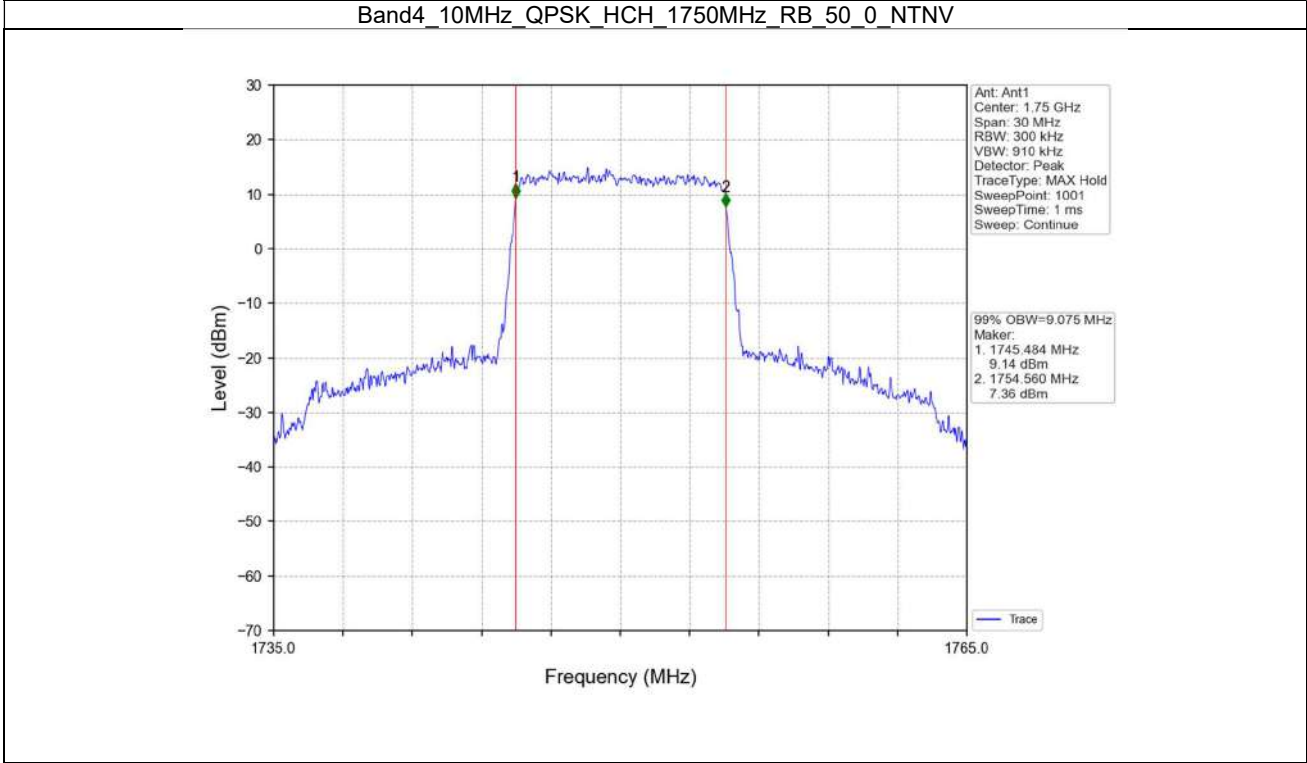


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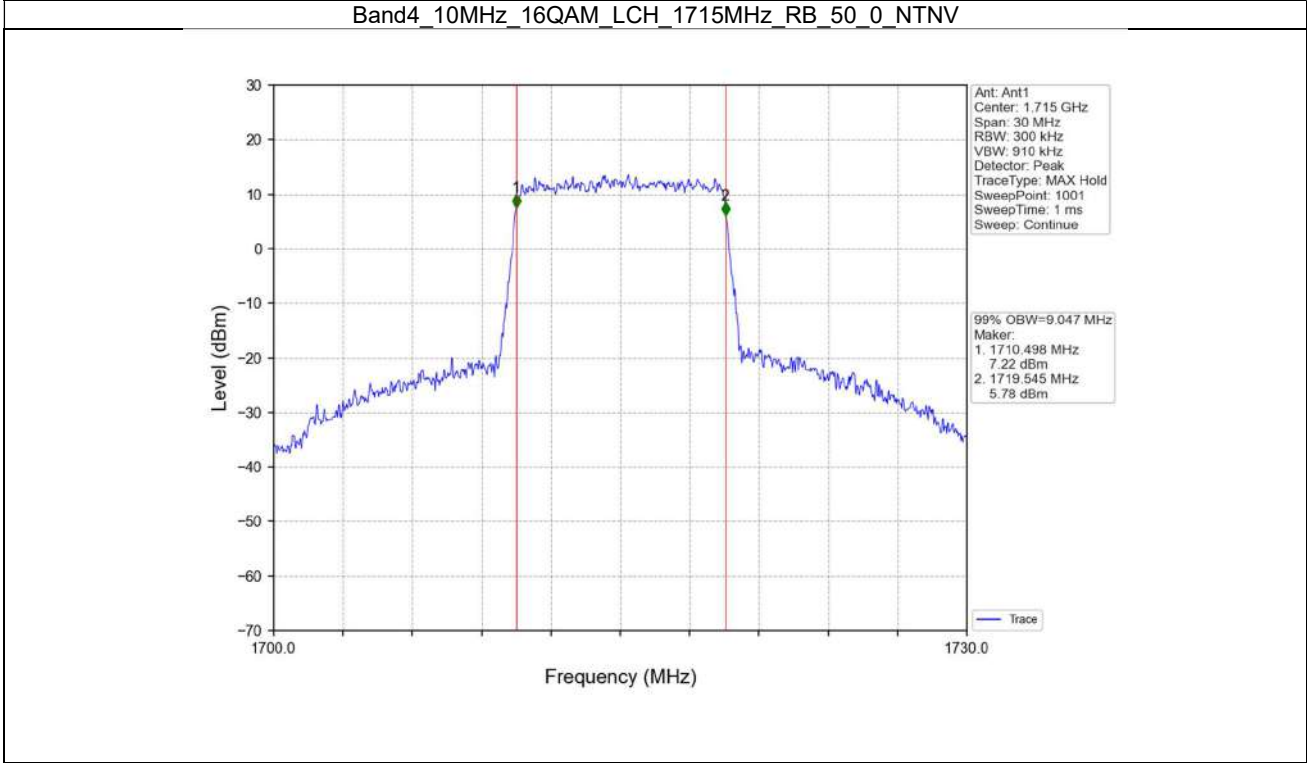
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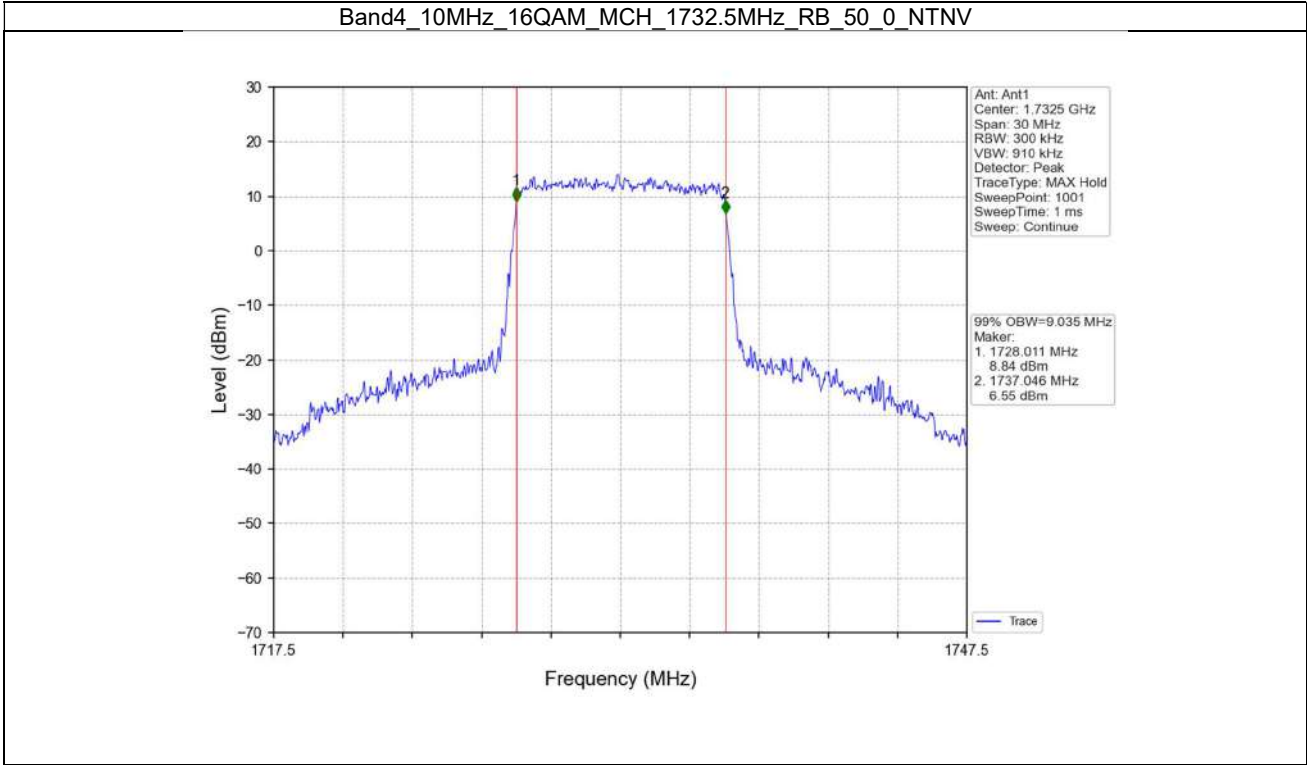
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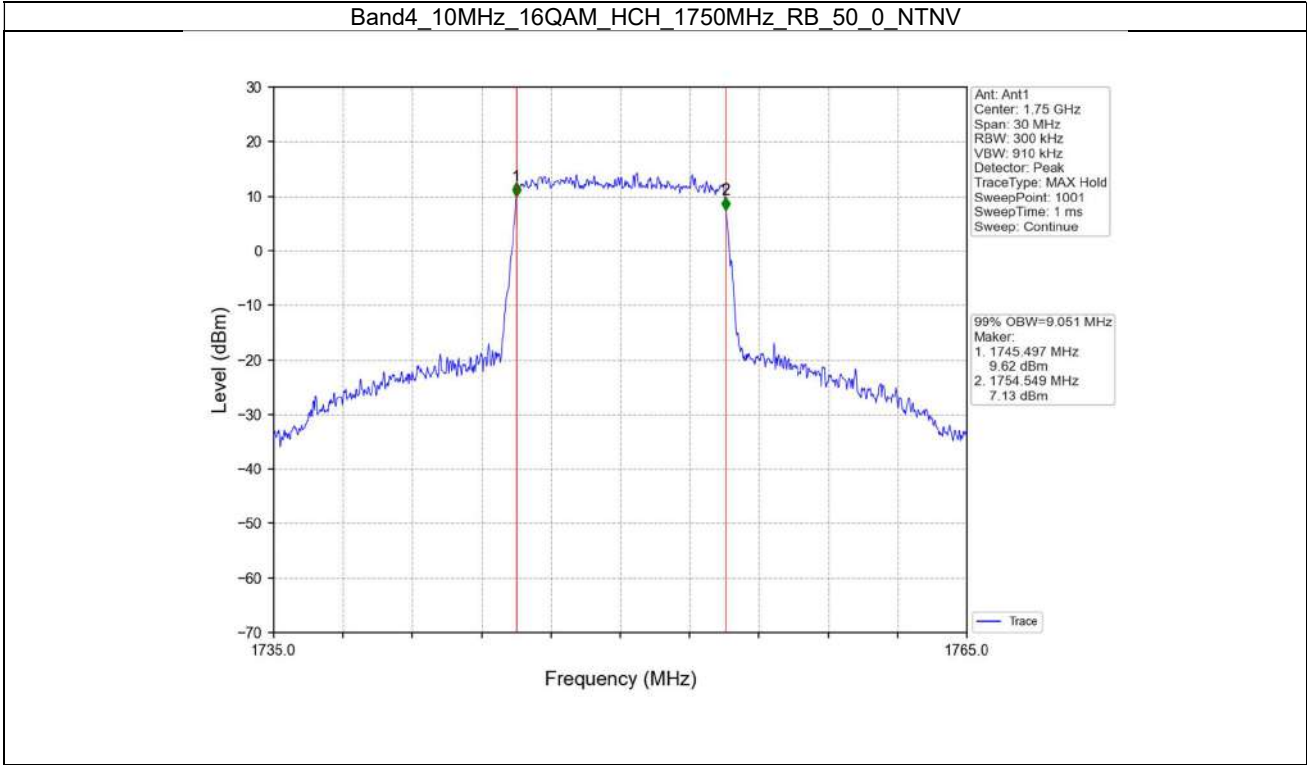
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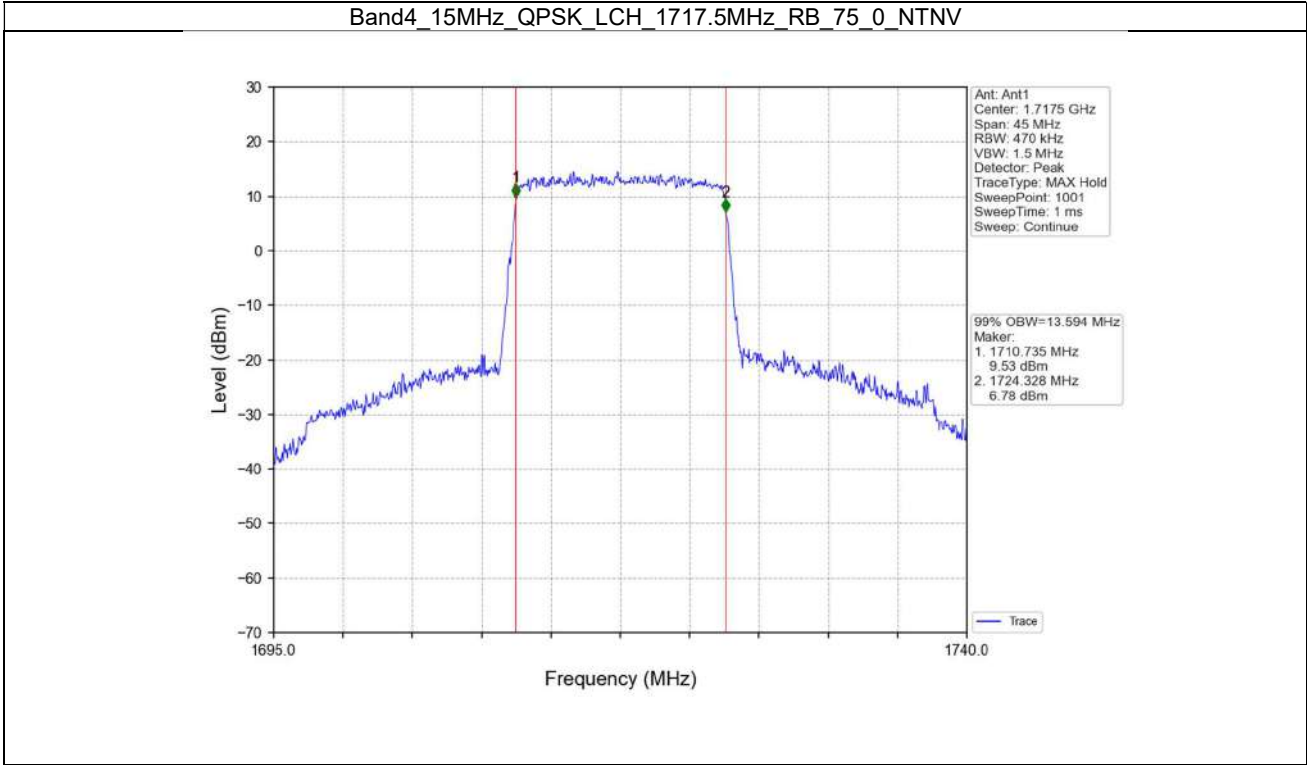
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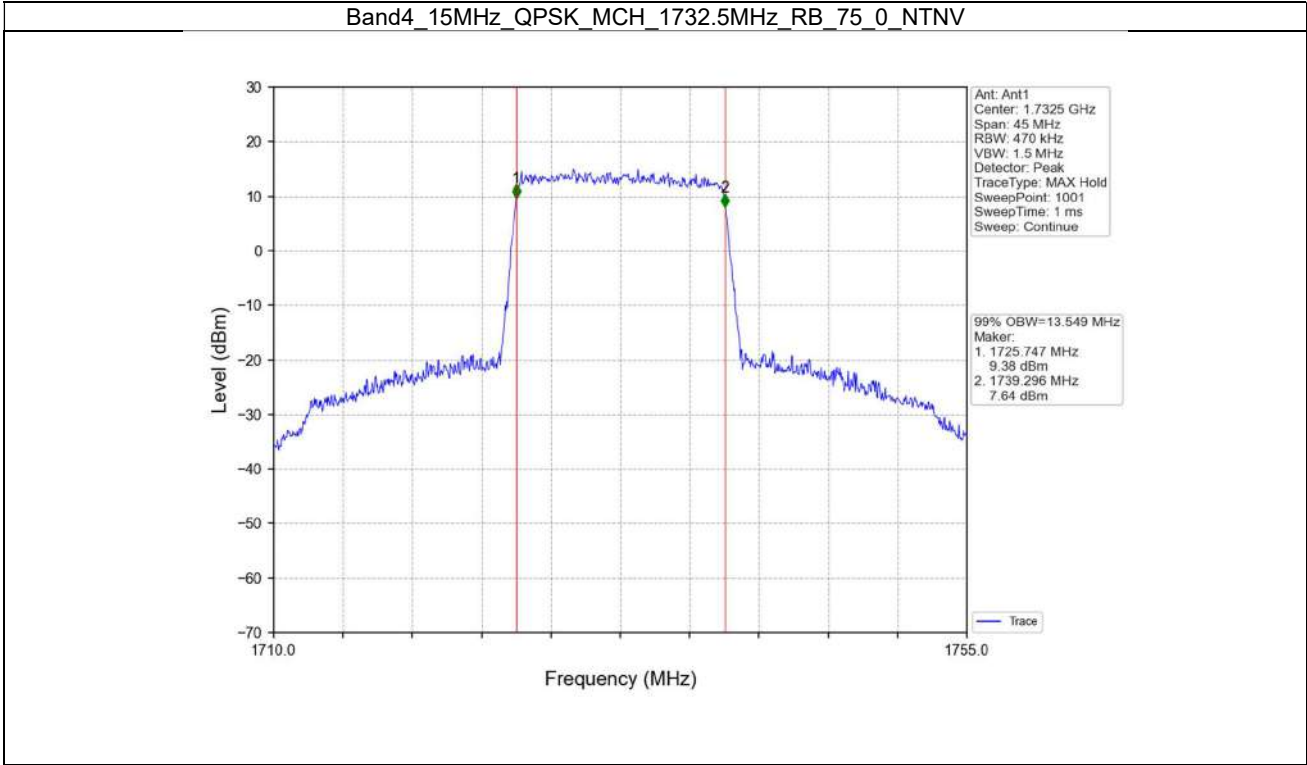
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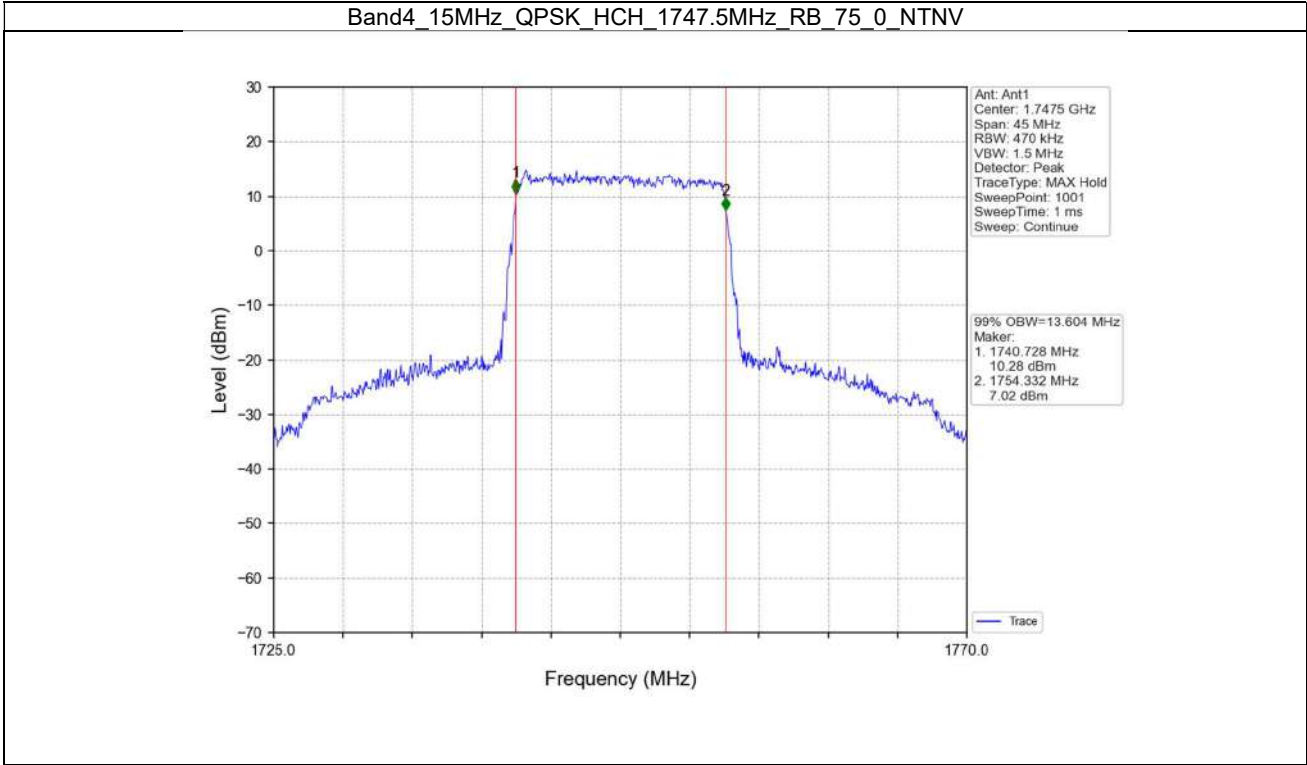
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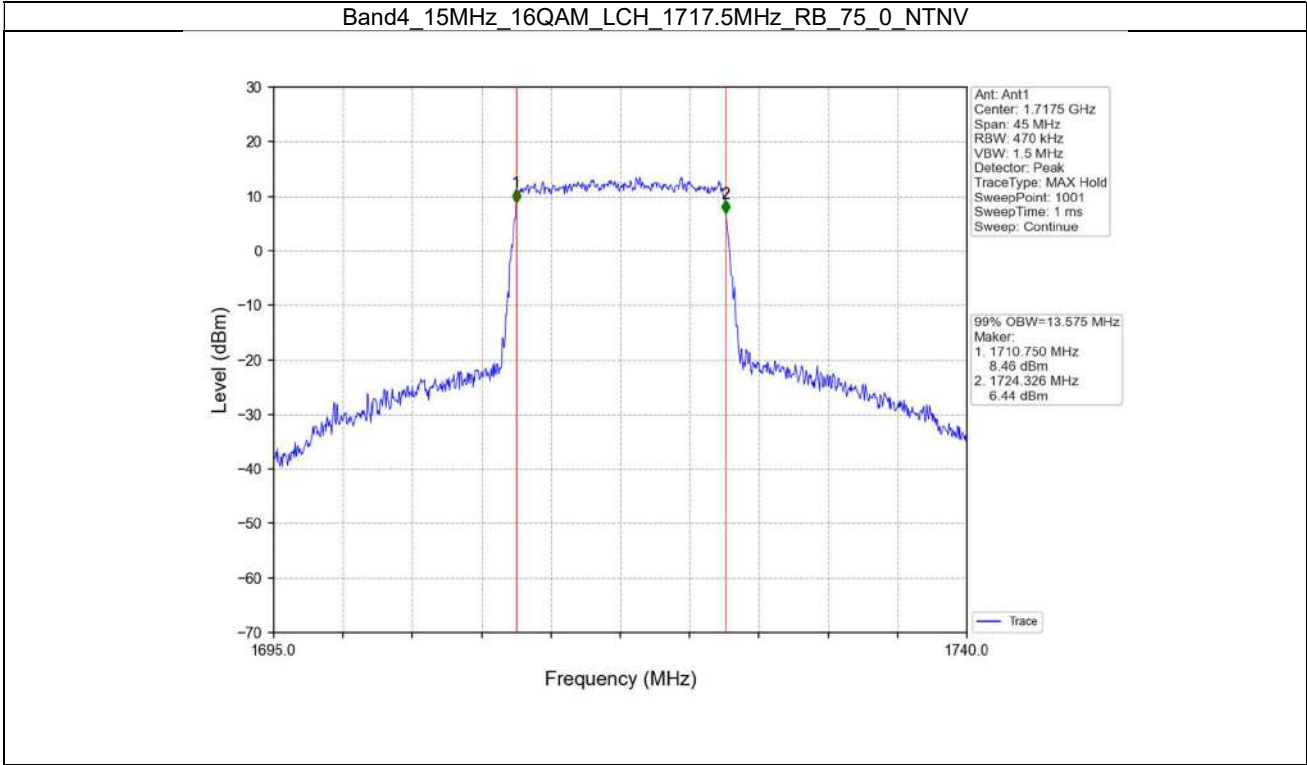
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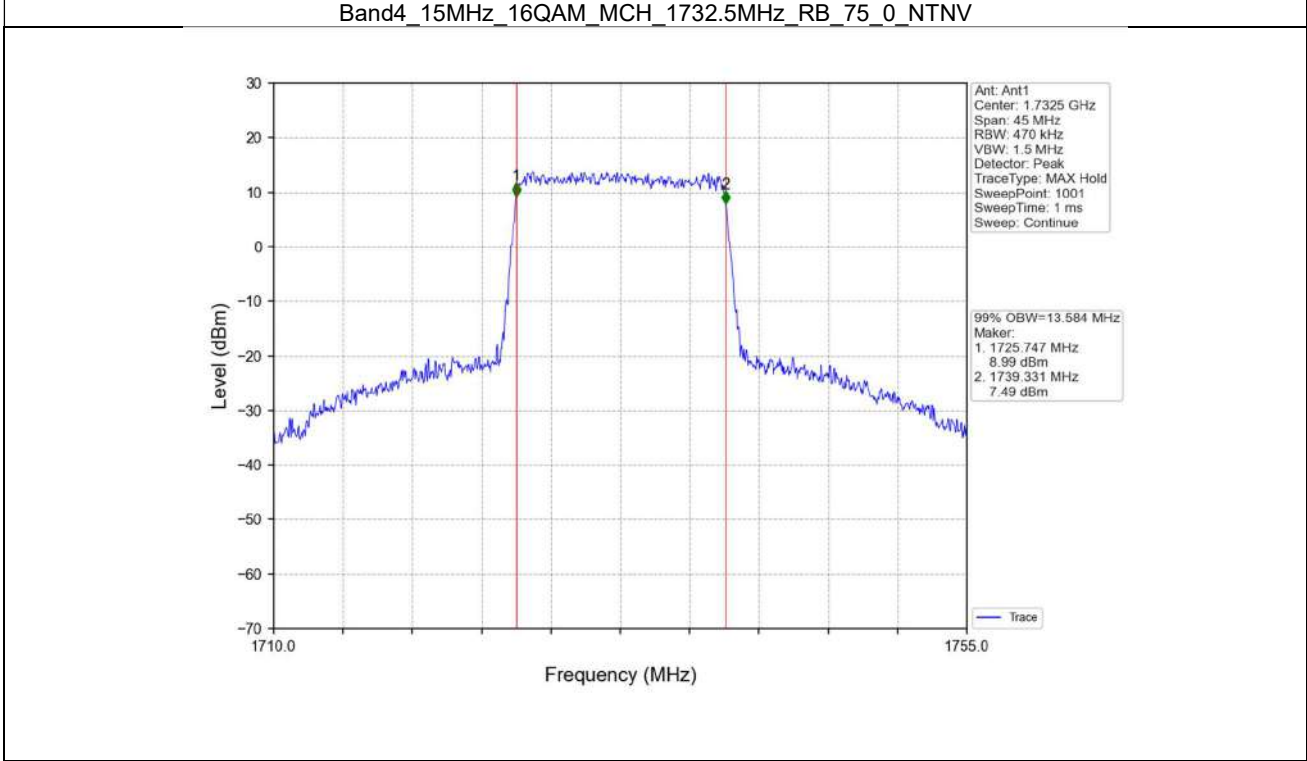
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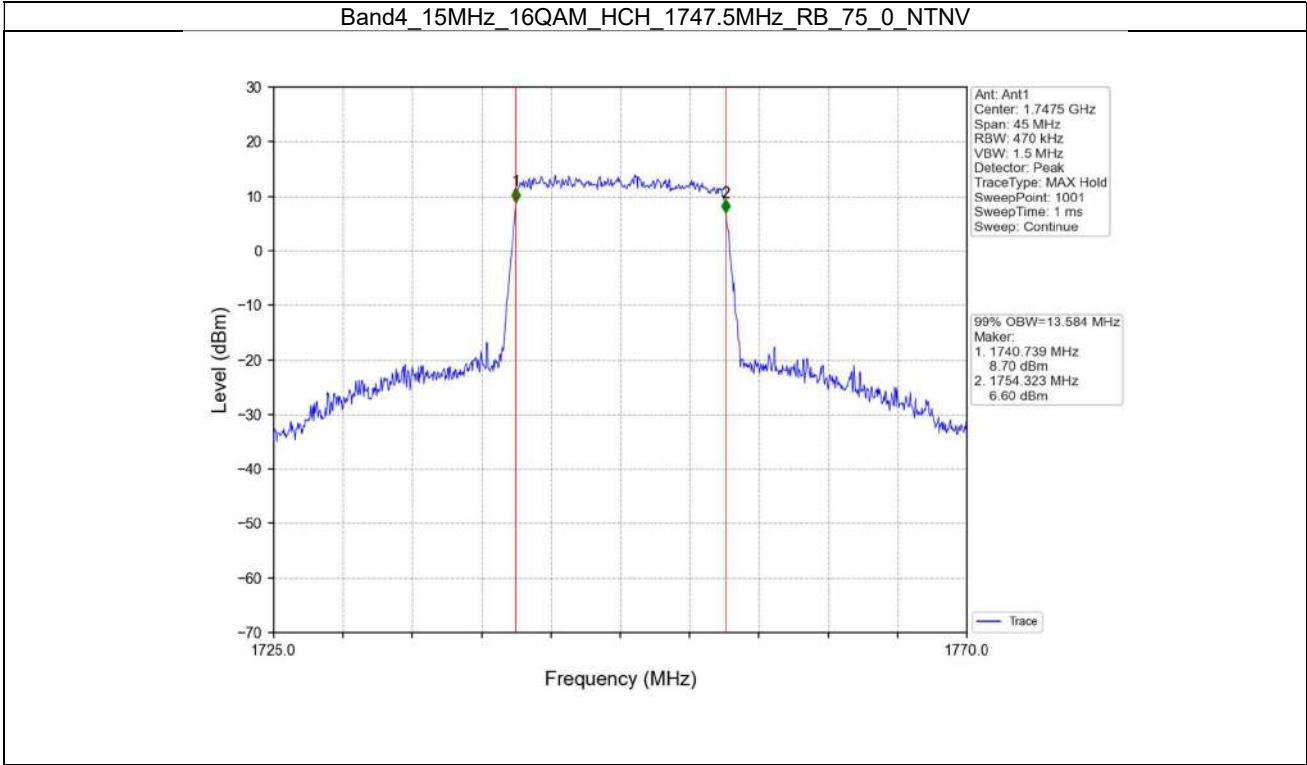
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



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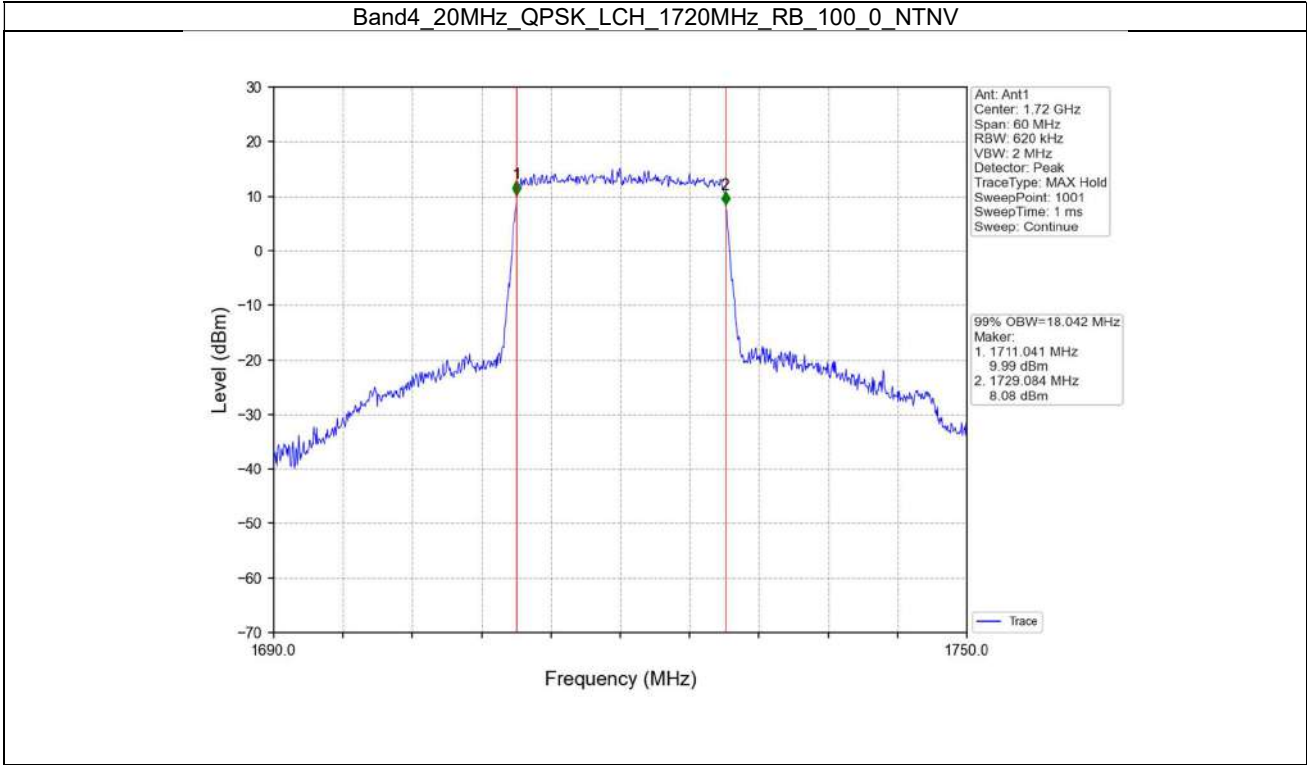
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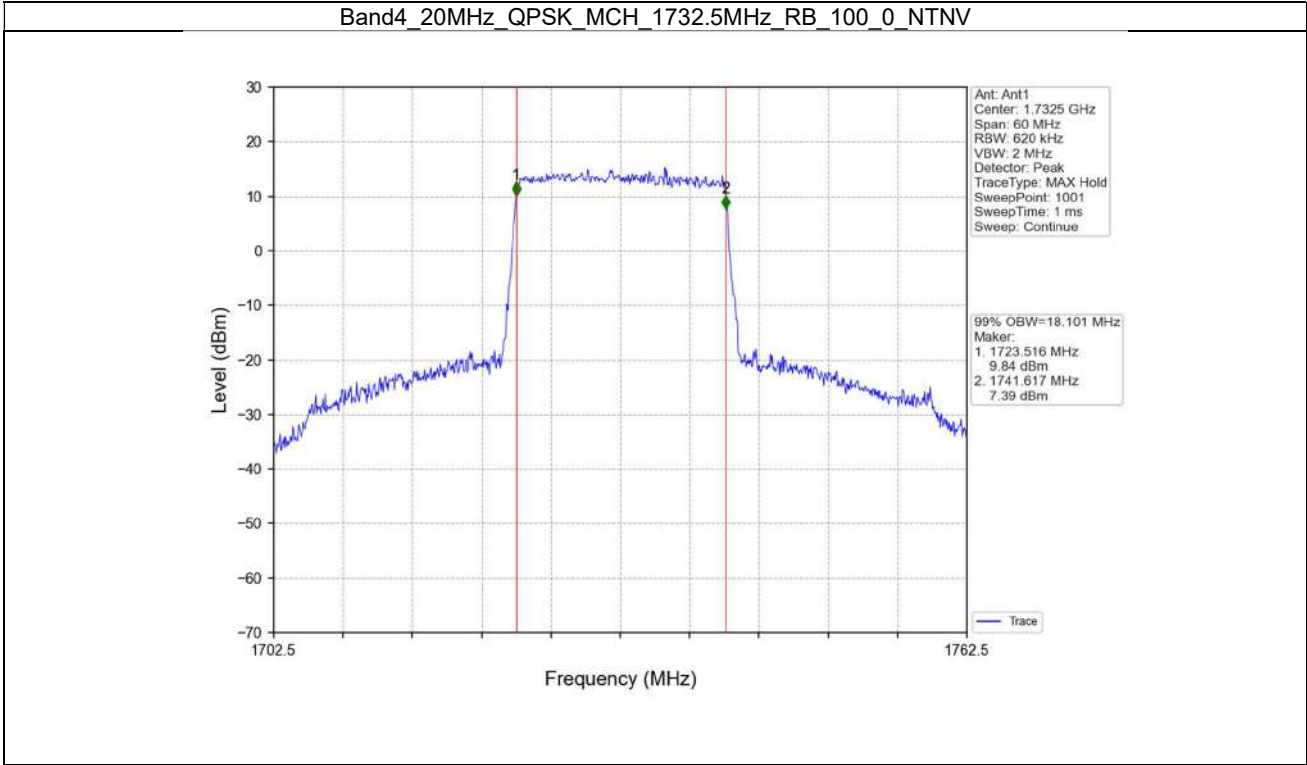
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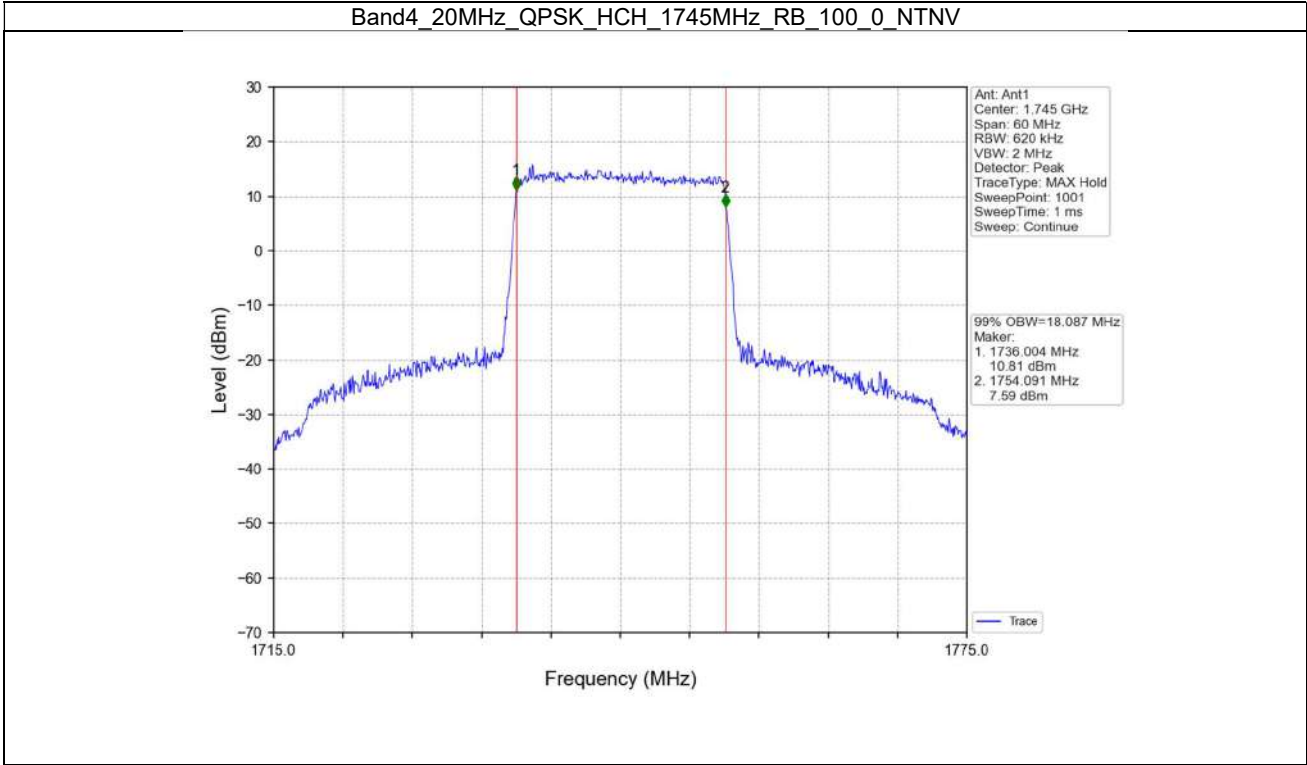
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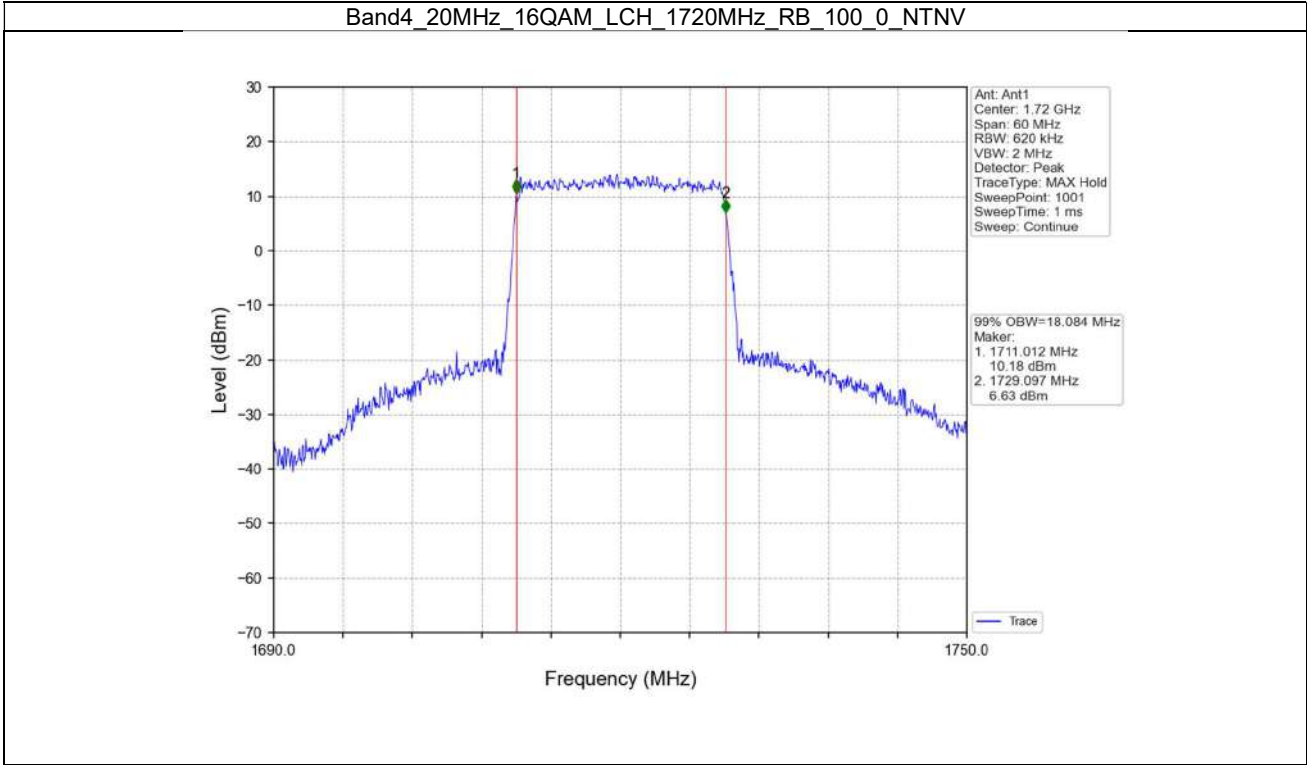
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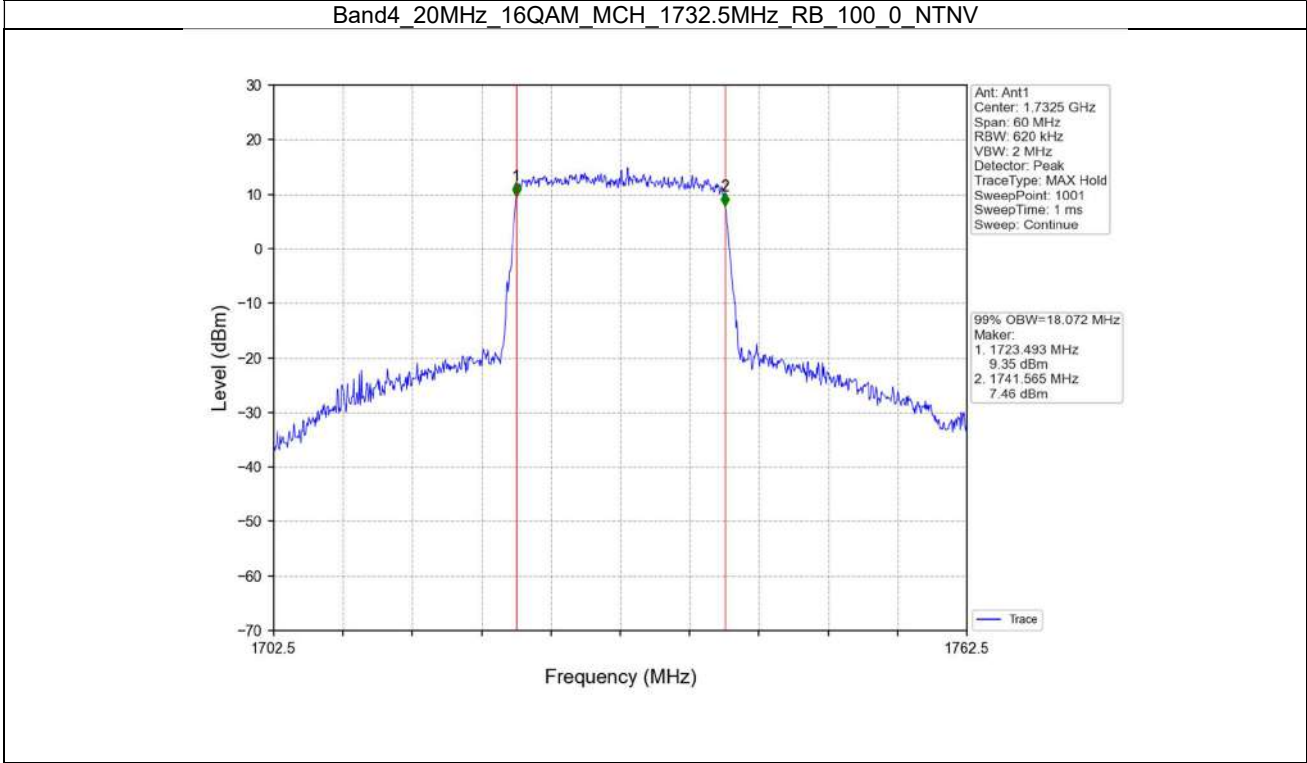


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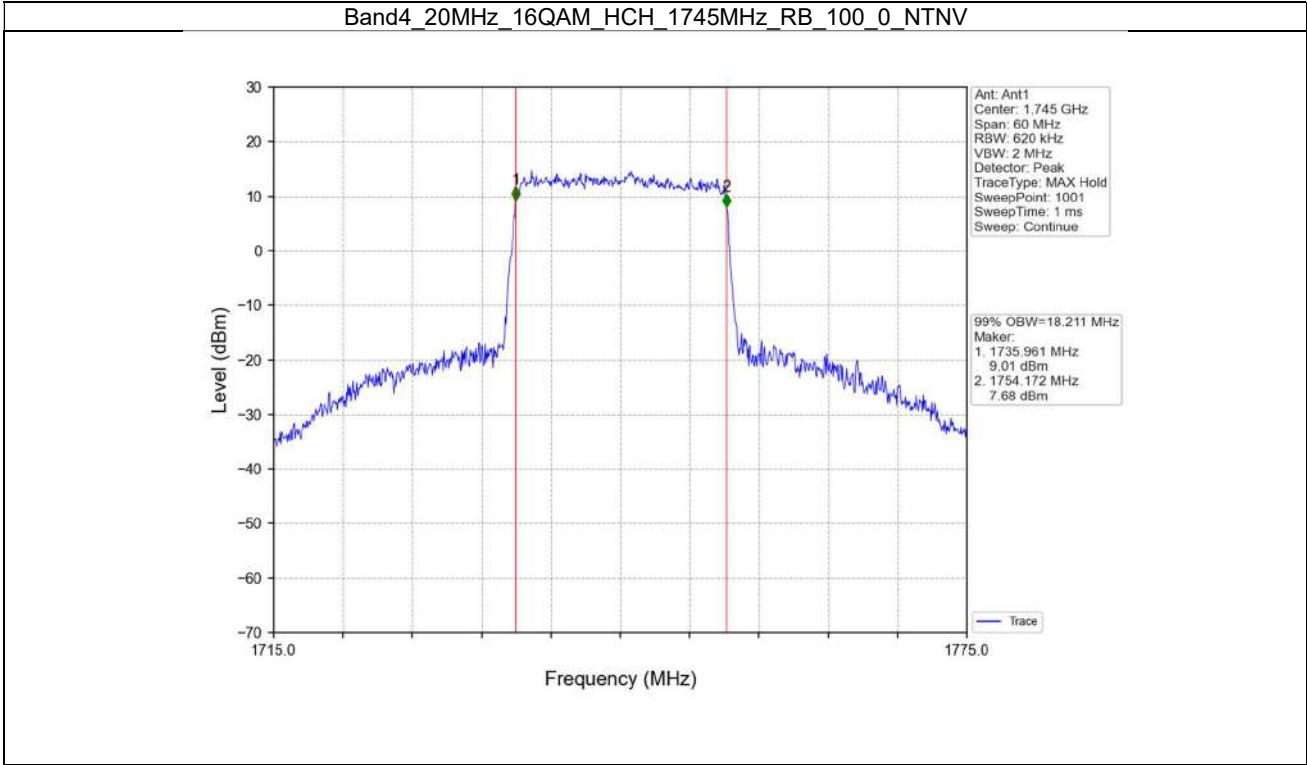
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4.2 Band4_XDB

4.2.1 Test Result

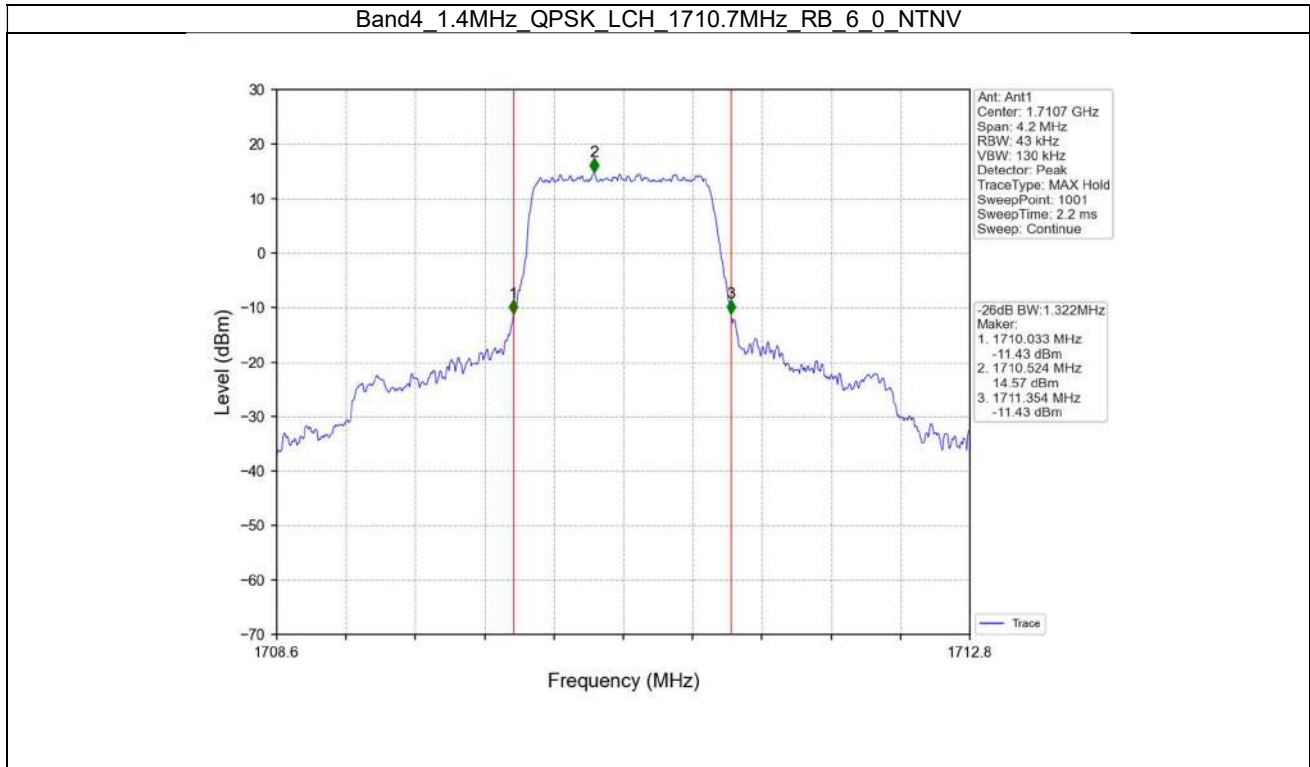
Band: 4 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.322	Pass
		1732.5	6	0	1.338	Pass
		1754.3	6	0	1.312	Pass
	16QAM	1710.7	6	0	1.321	Pass
		1732.5	6	0	1.303	Pass
		1754.3	6	0	1.330	Pass
3	QPSK	1711.5	15	0	3.040	Pass
		1732.5	15	0	3.049	Pass
		1753.5	15	0	3.059	Pass
	16QAM	1711.5	15	0	3.050	Pass
		1732.5	15	0	3.030	Pass
		1753.5	15	0	3.038	Pass
5	QPSK	1712.5	25	0	5.101	Pass
		1732.5	25	0	5.094	Pass
		1752.5	25	0	5.104	Pass
	16QAM	1712.5	25	0	5.101	Pass
		1732.5	25	0	5.102	Pass
		1752.5	25	0	5.067	Pass
10	QPSK	1715	50	0	10.044	Pass
		1732.5	50	0	10.009	Pass
		1750	50	0	9.993	Pass
	16QAM	1715	50	0	10.056	Pass
		1732.5	50	0	9.928	Pass
		1750	50	0	9.990	Pass
15	QPSK	1717.5	75	0	14.938	Pass
		1732.5	75	0	14.979	Pass
		1747.5	75	0	15.163	Pass
	16QAM	1717.5	75	0	14.943	Pass
		1732.5	75	0	15.059	Pass
		1747.5	75	0	14.954	Pass
20	QPSK	1720	100	0	19.810	Pass
		1732.5	100	0	19.848	Pass
		1745	100	0	19.648	Pass
	16QAM	1720	100	0	19.826	Pass
		1732.5	100	0	19.876	Pass
		1745	100	0	19.722	Pass



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4.2.2 Test Graph



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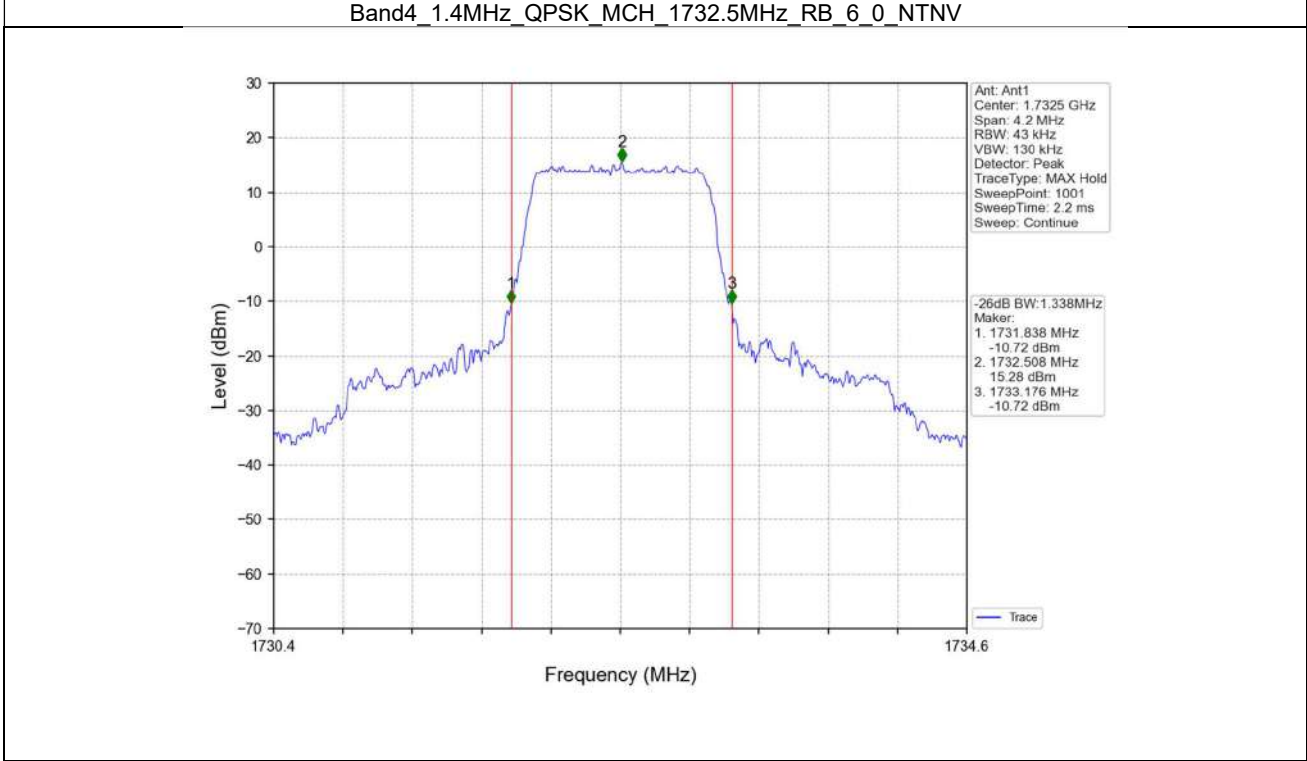
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

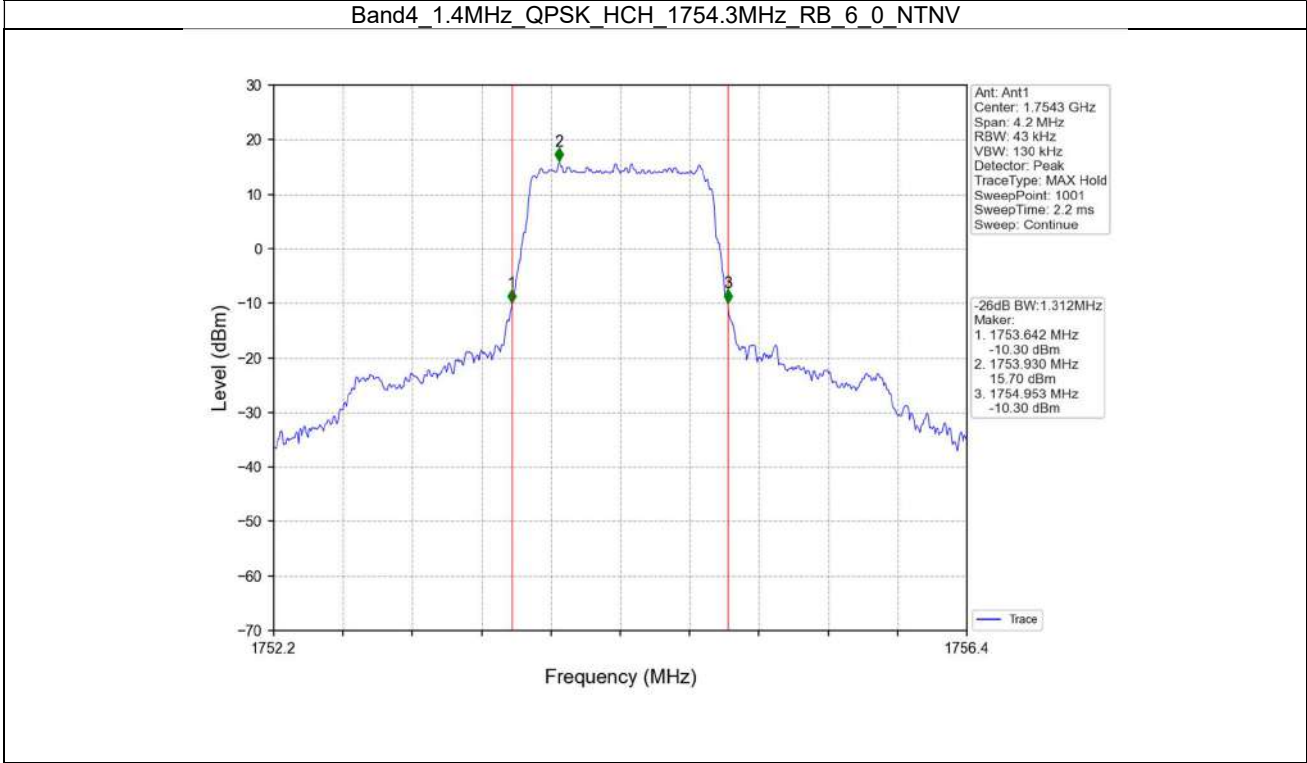


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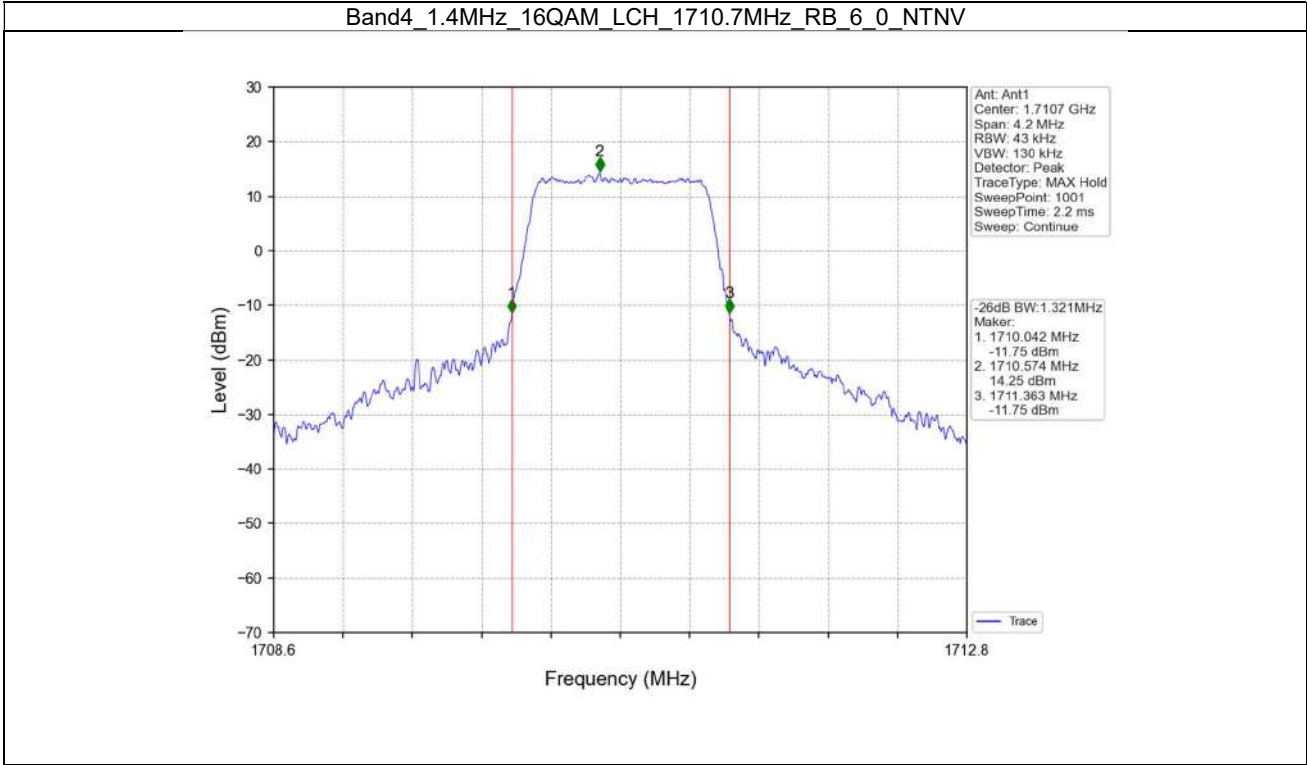
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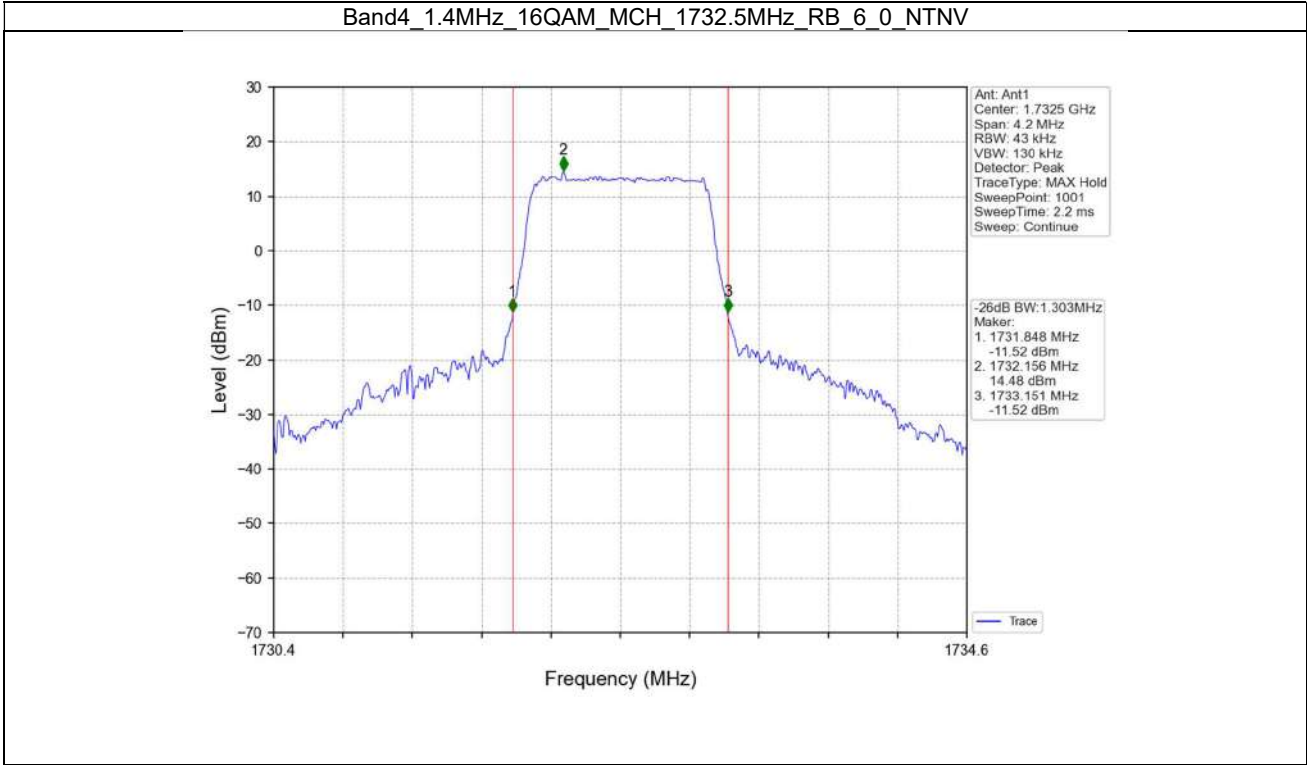
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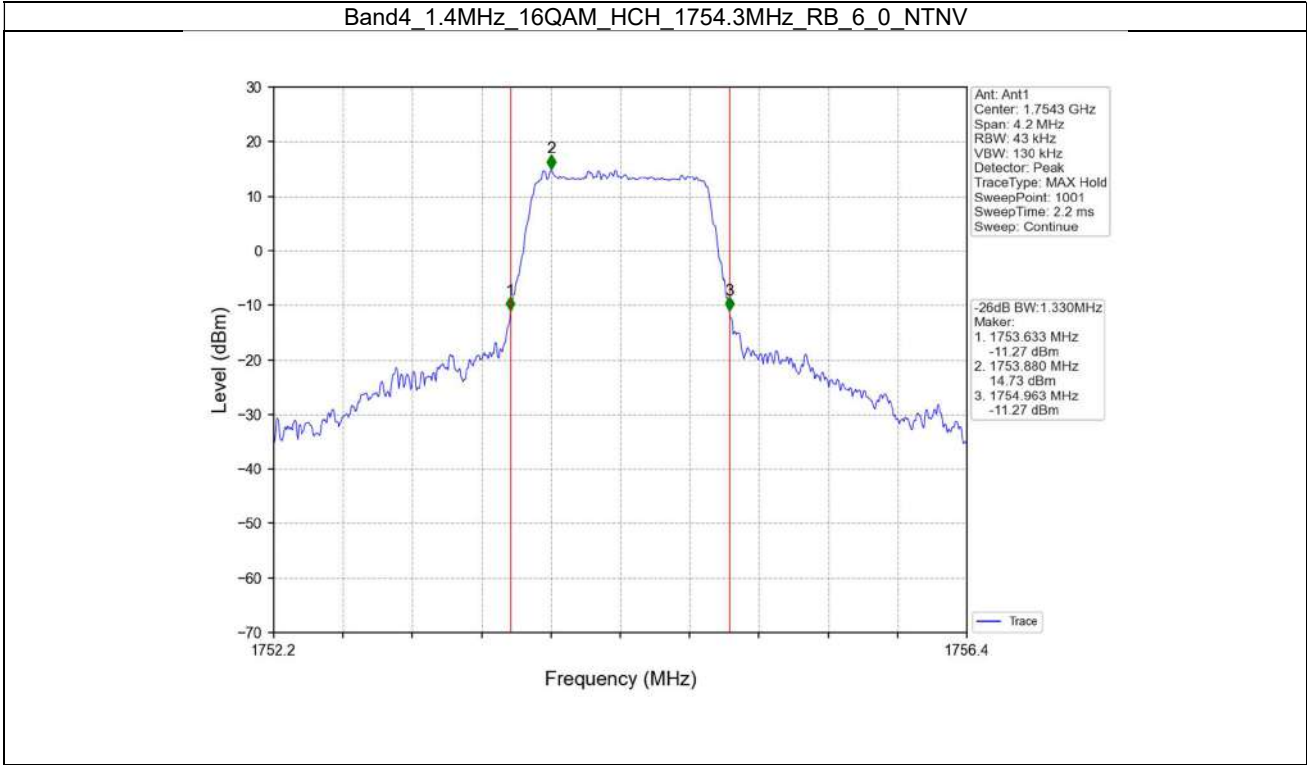
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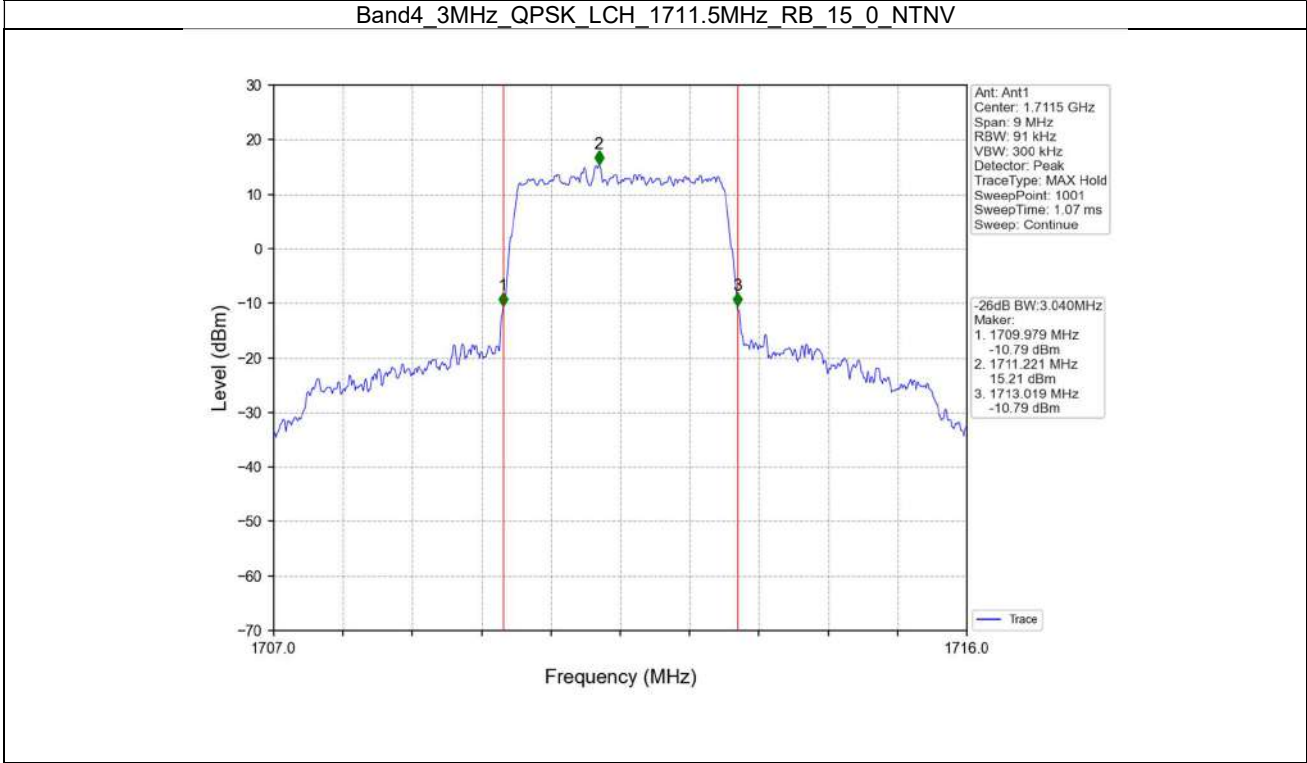


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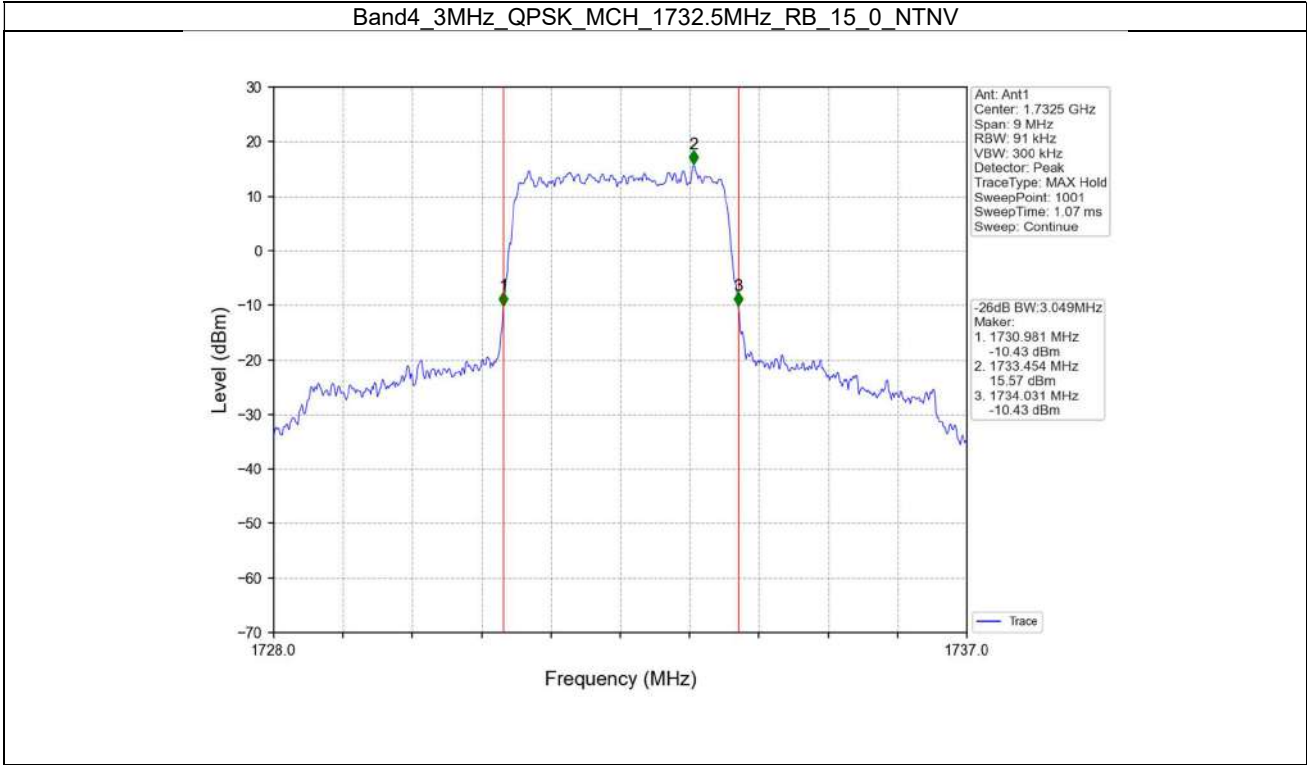
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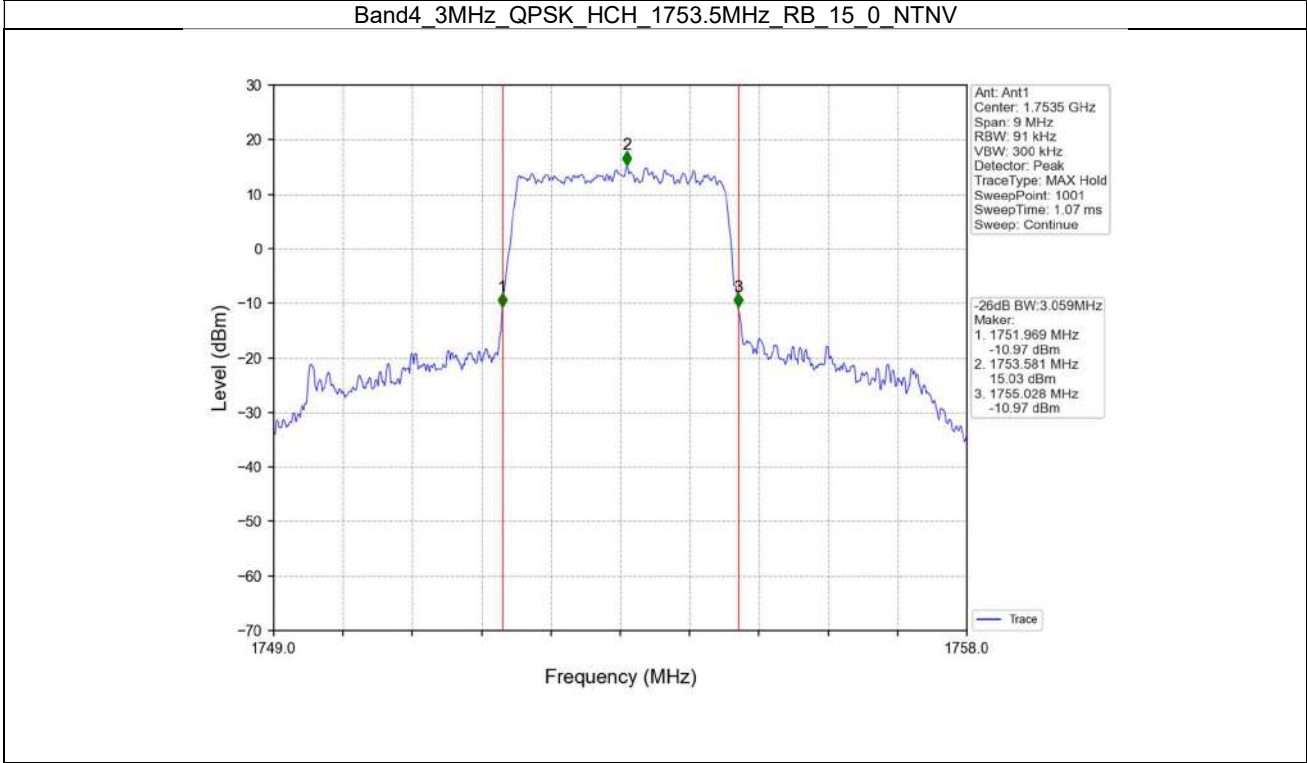


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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV

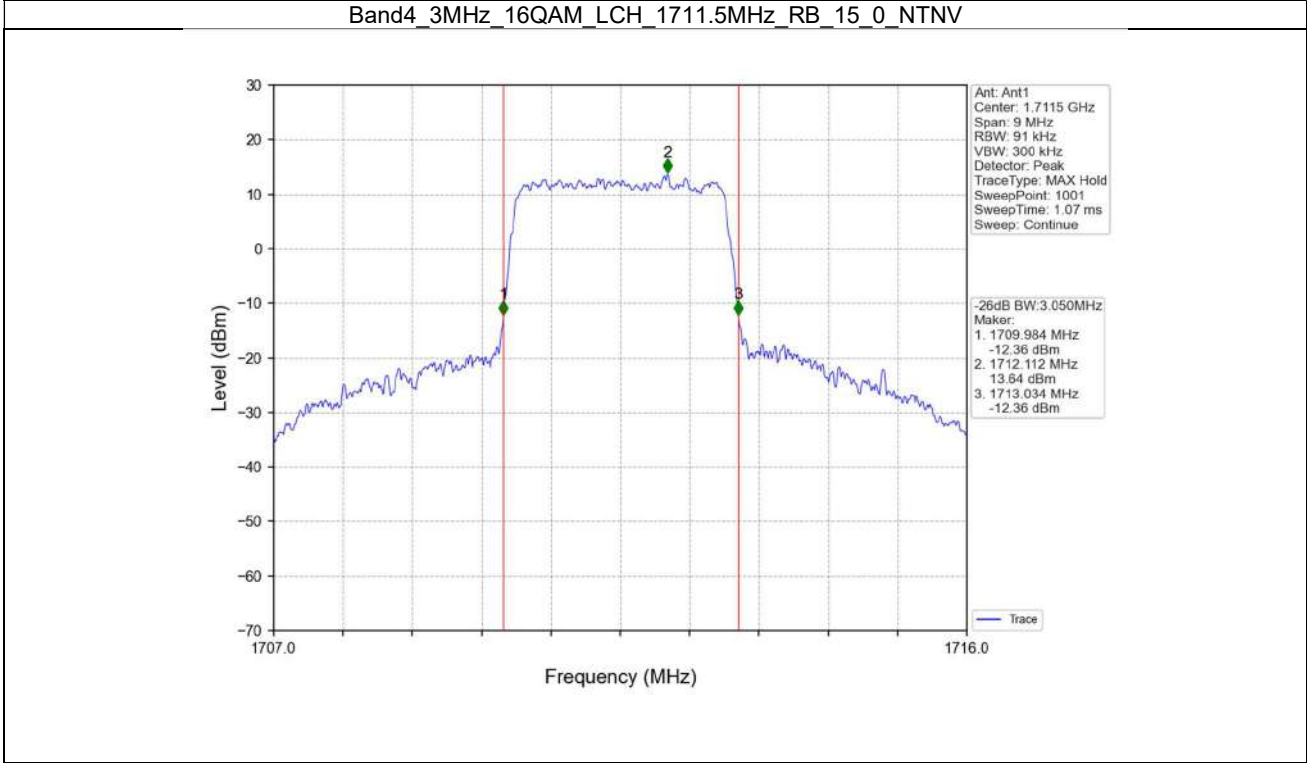


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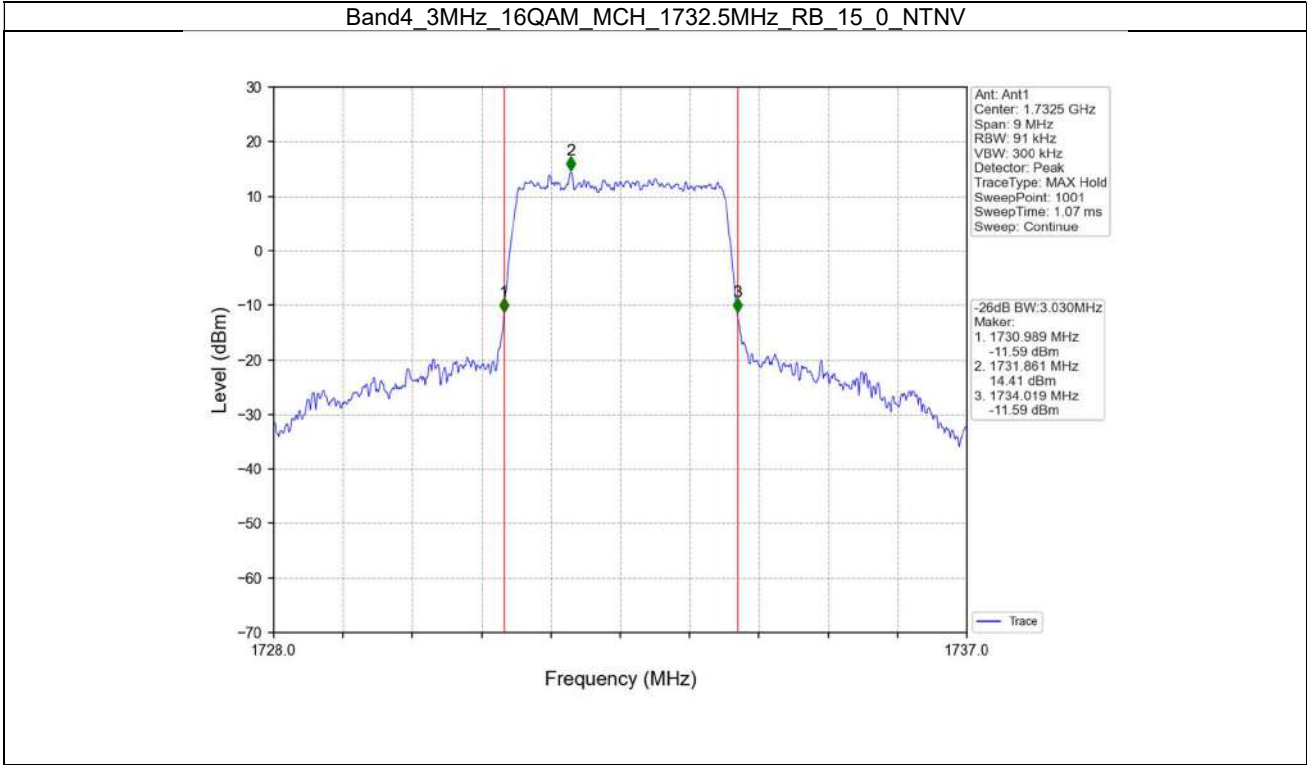
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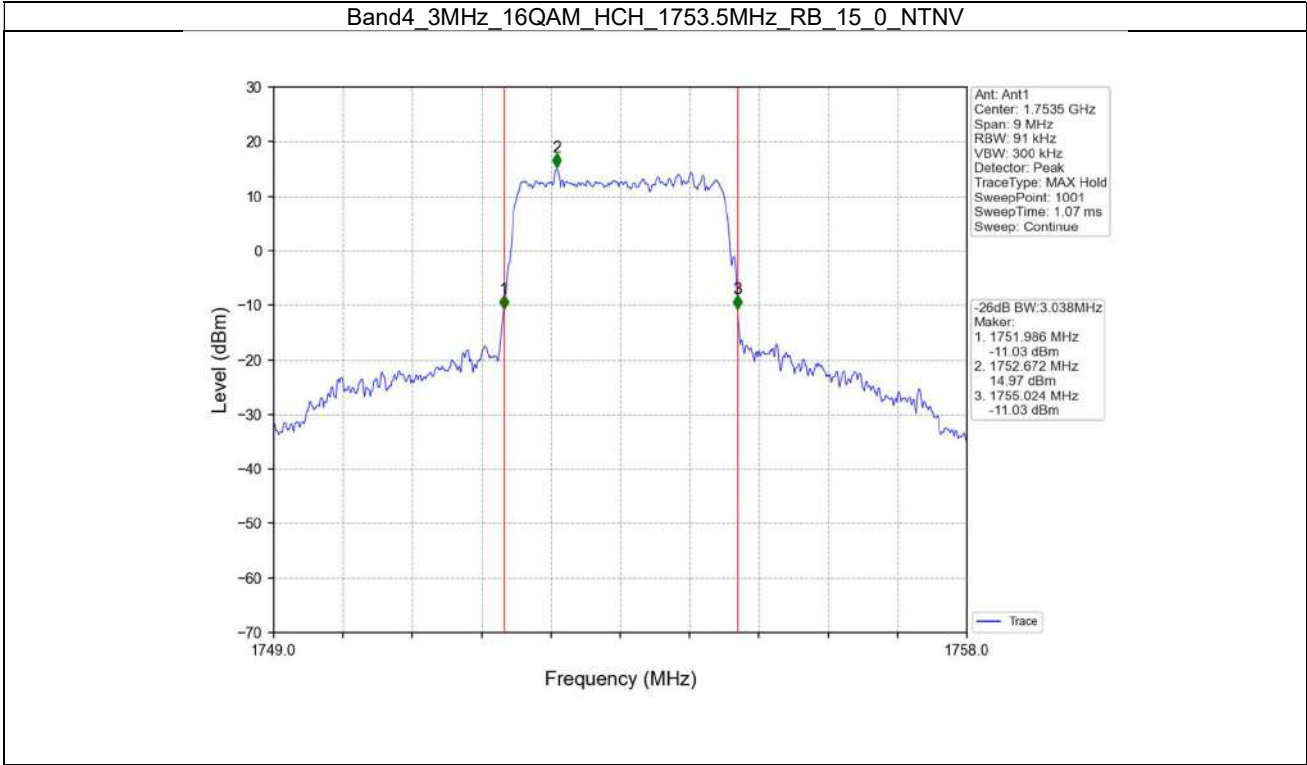
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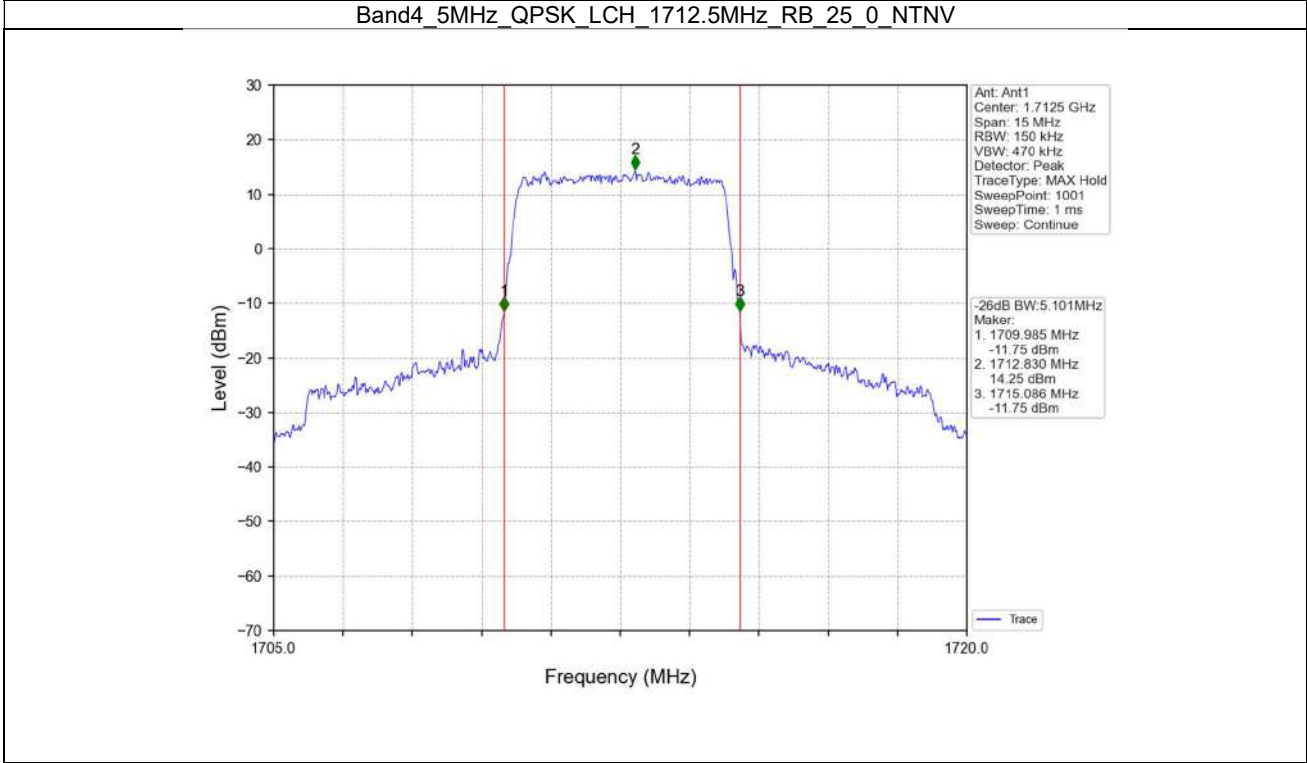
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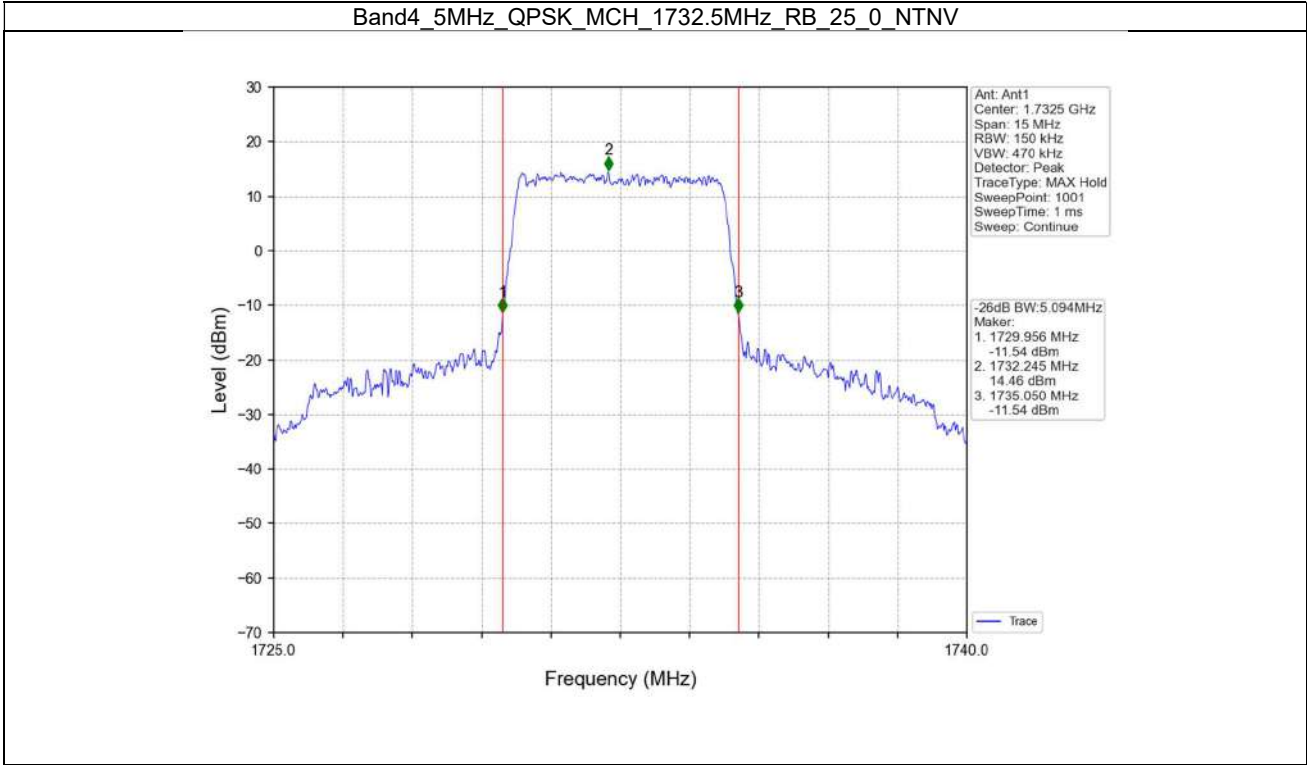
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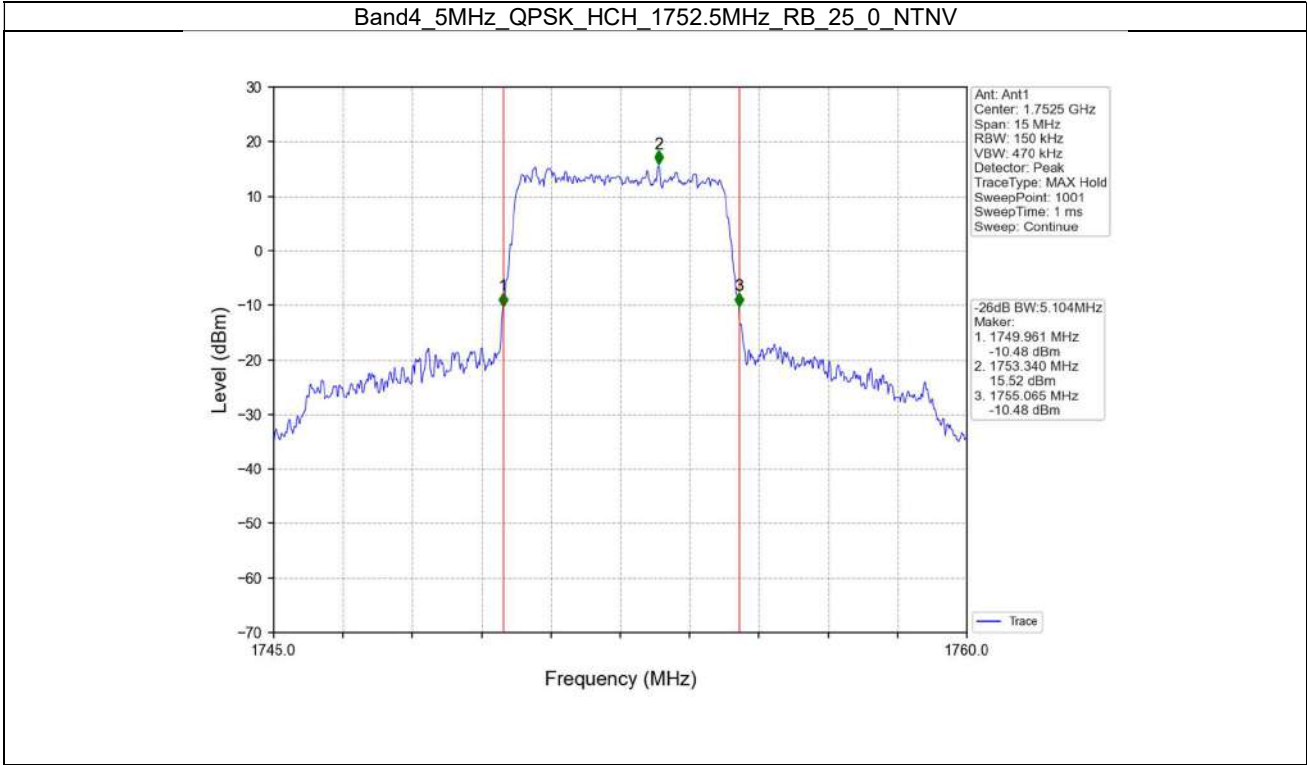
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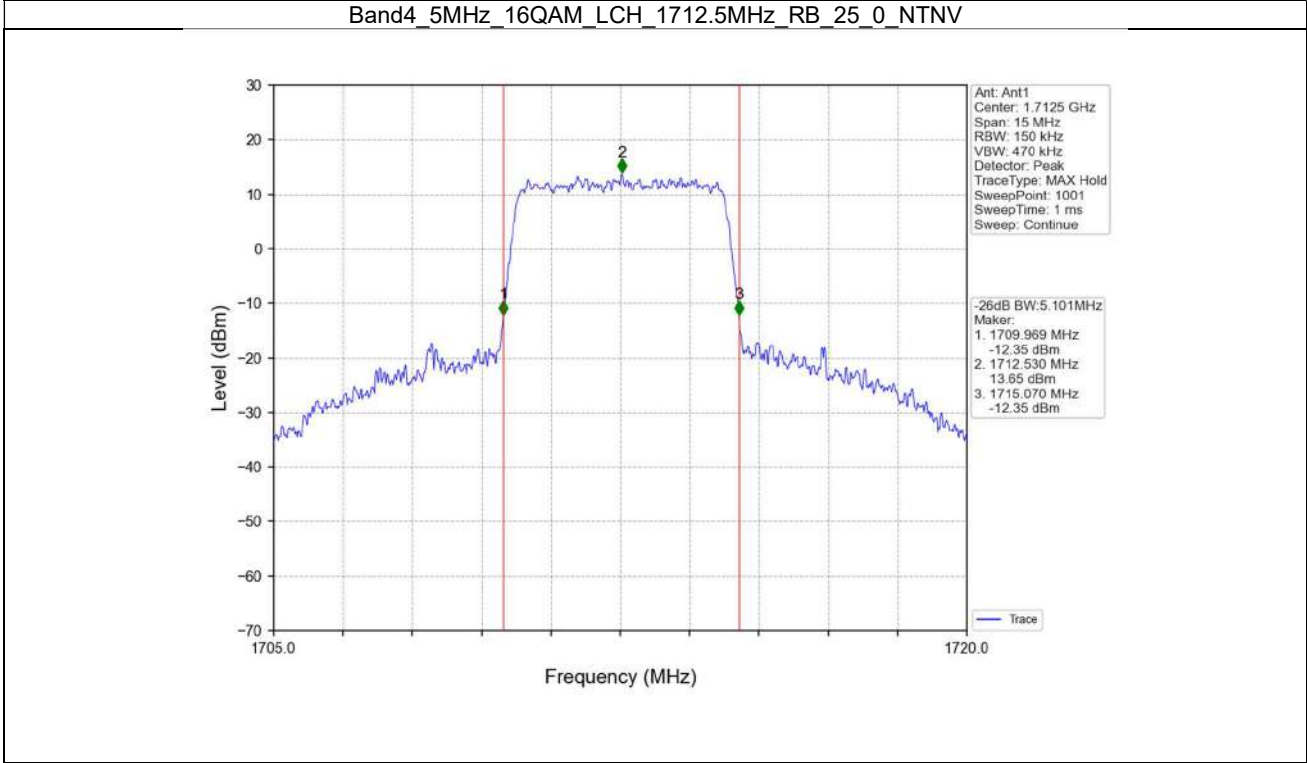


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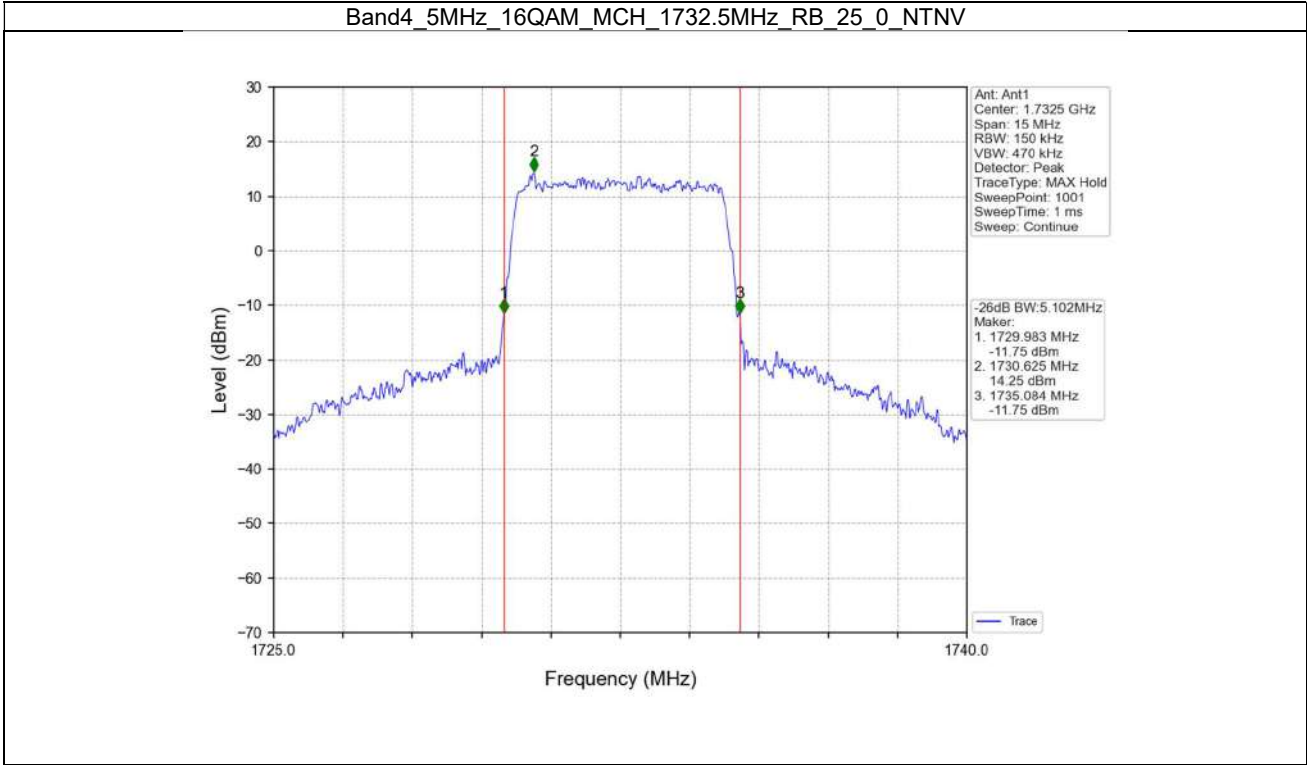
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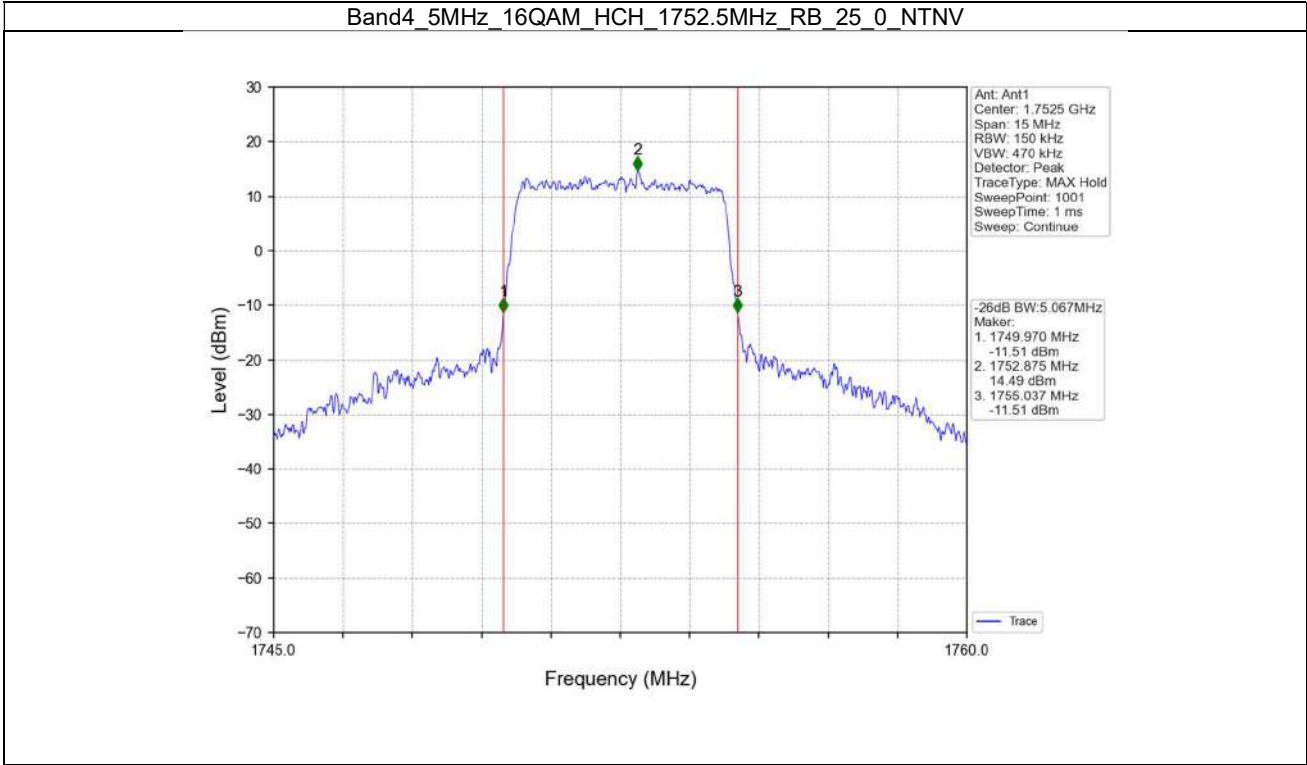
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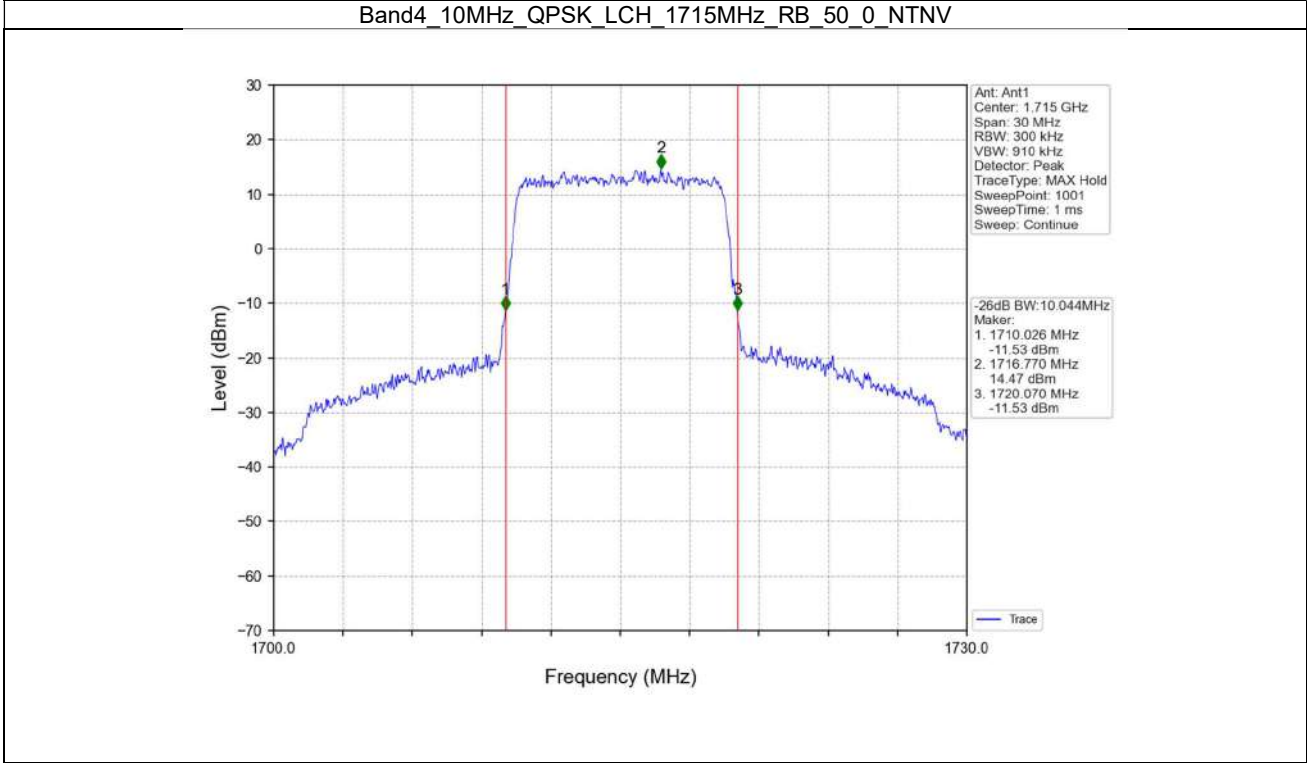


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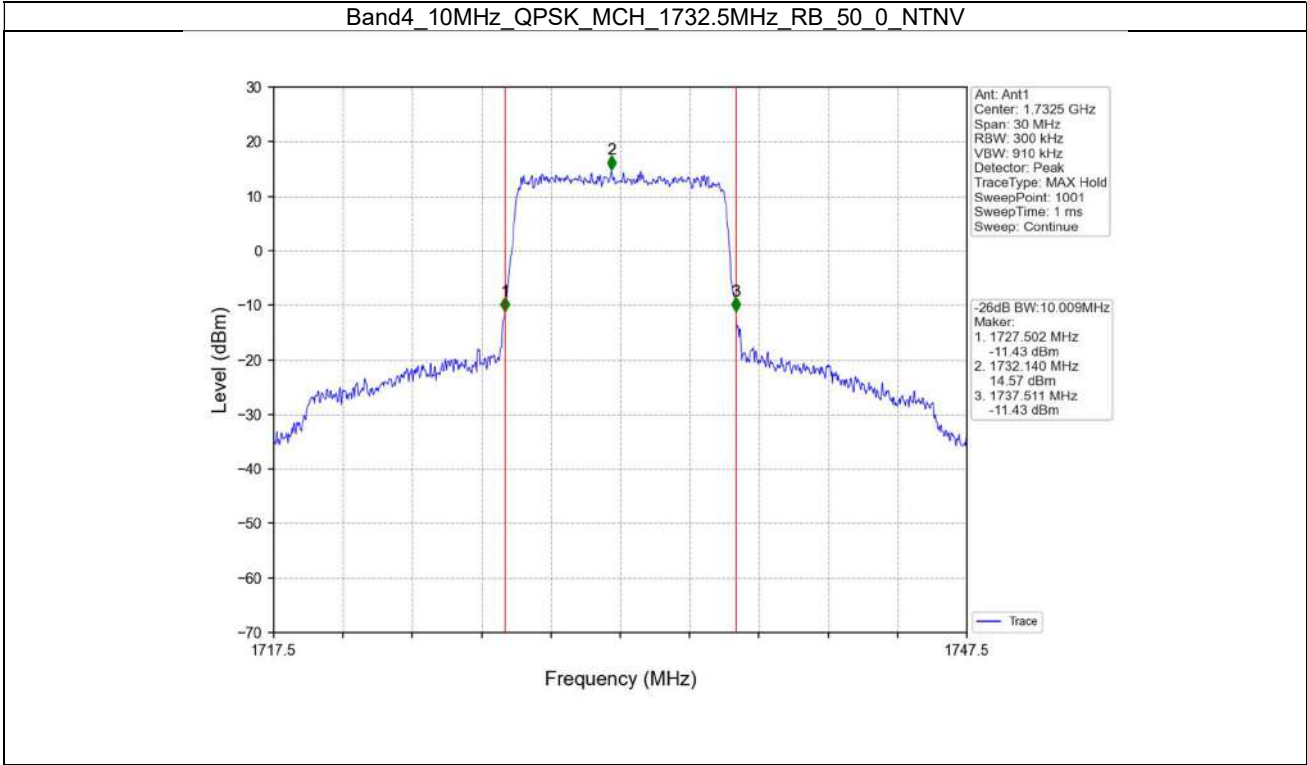
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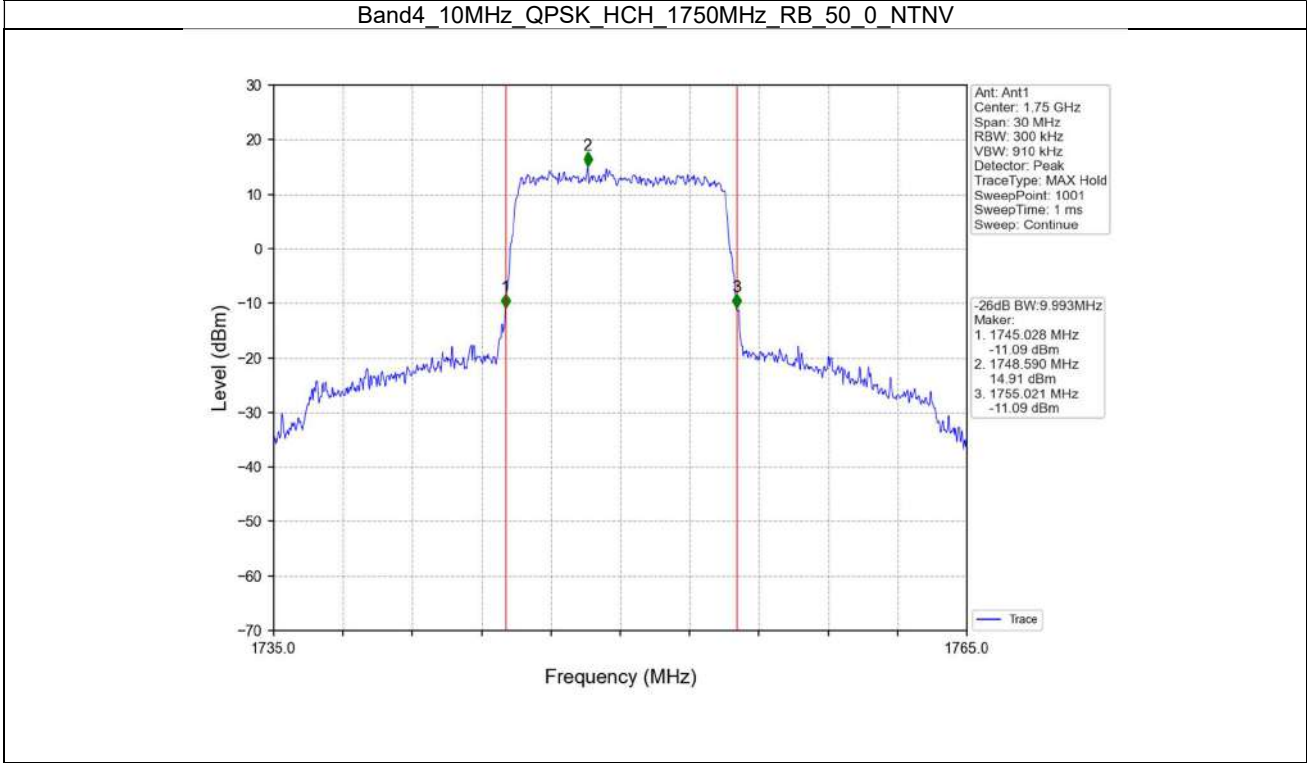


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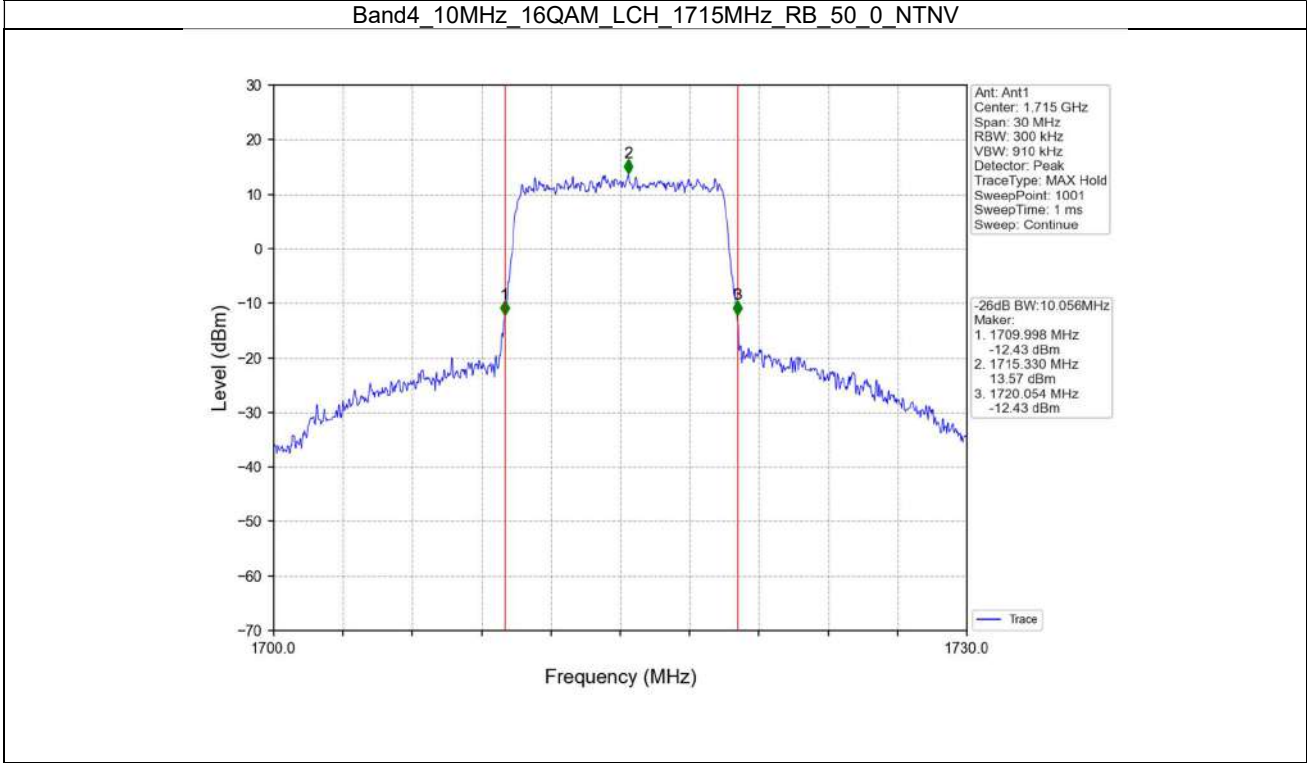
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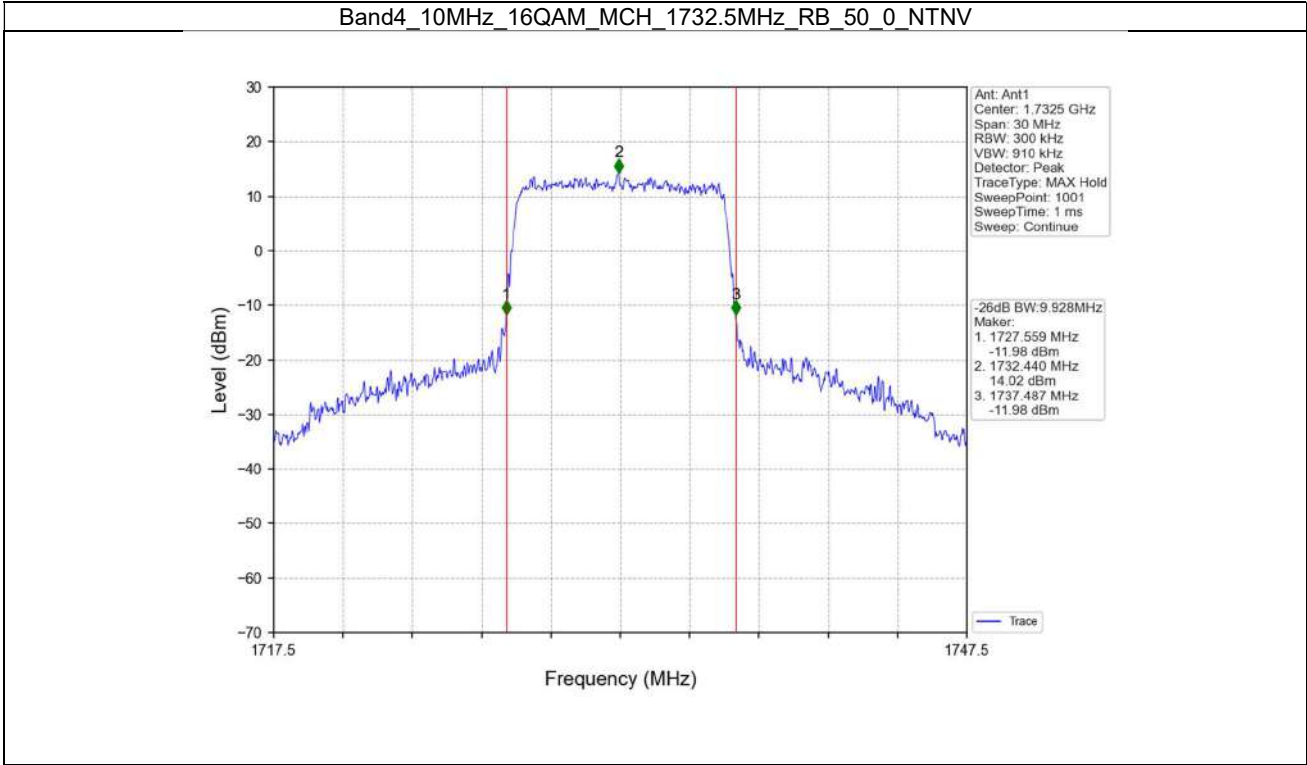
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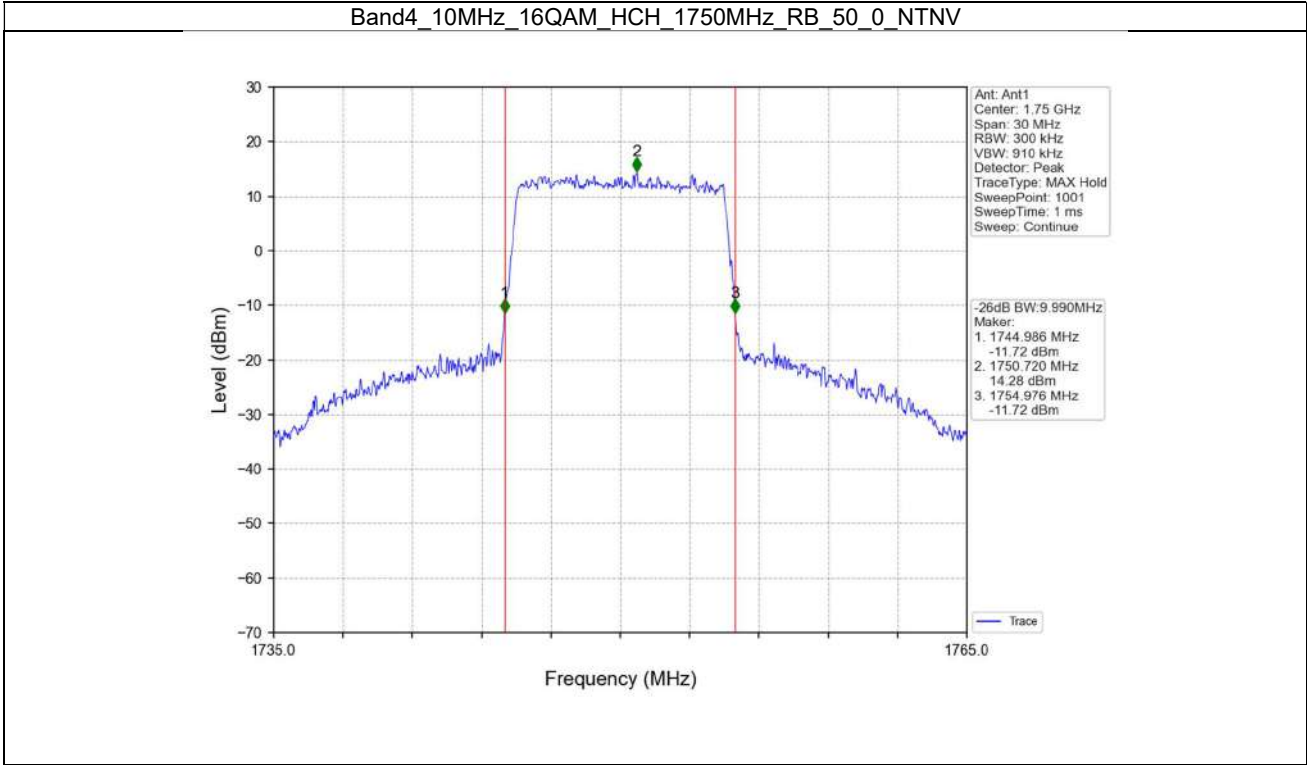
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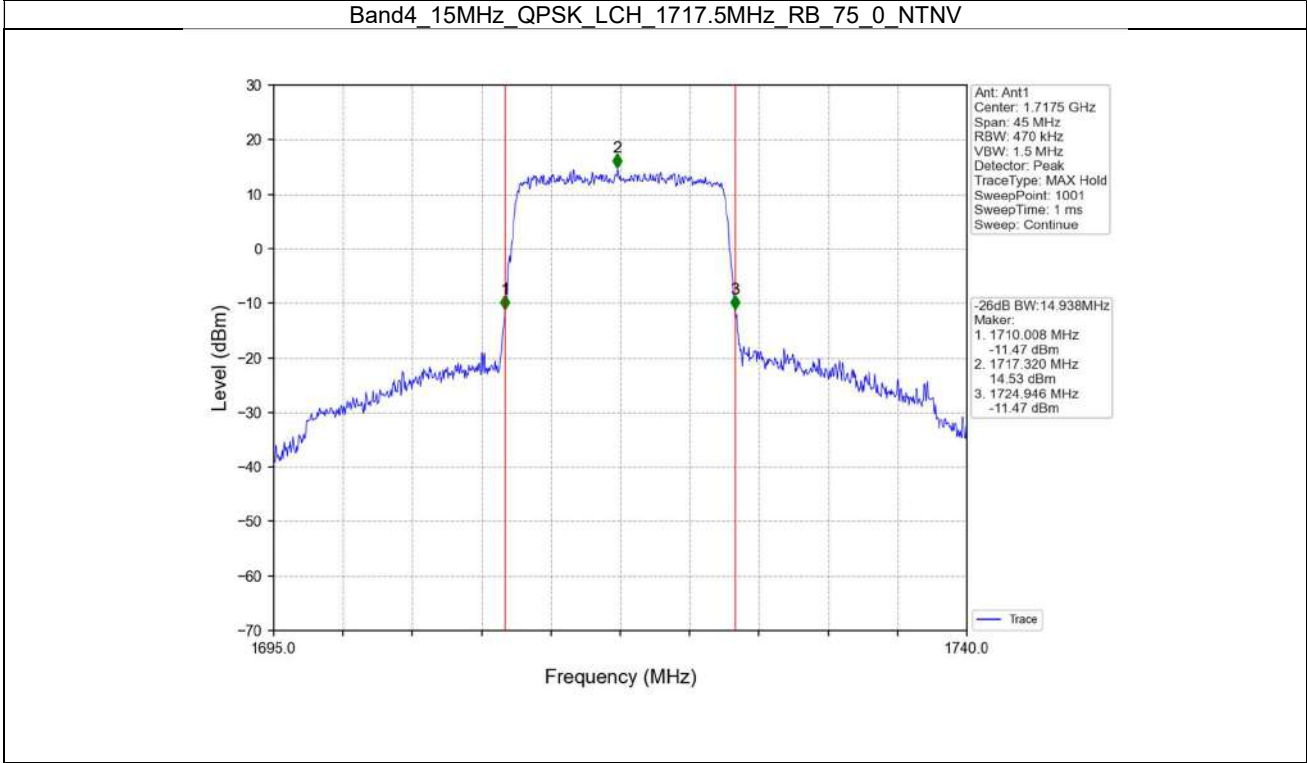


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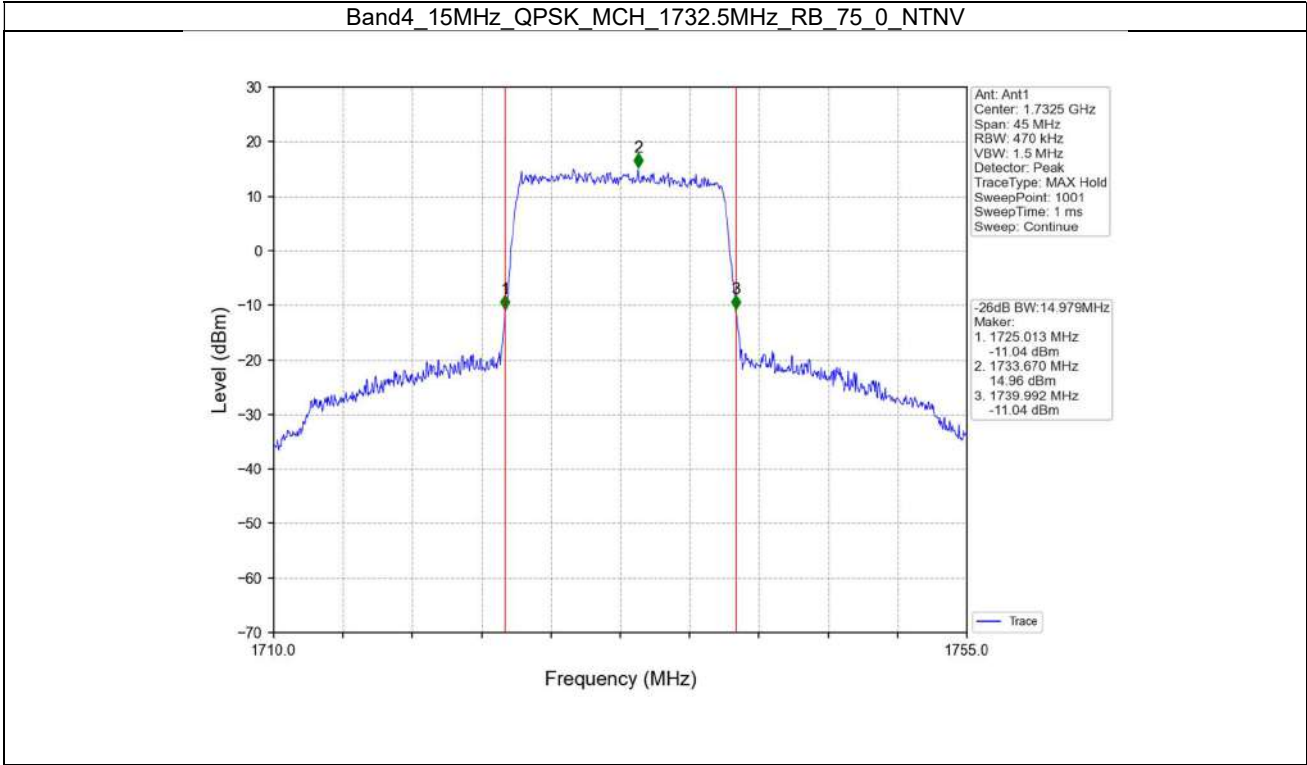
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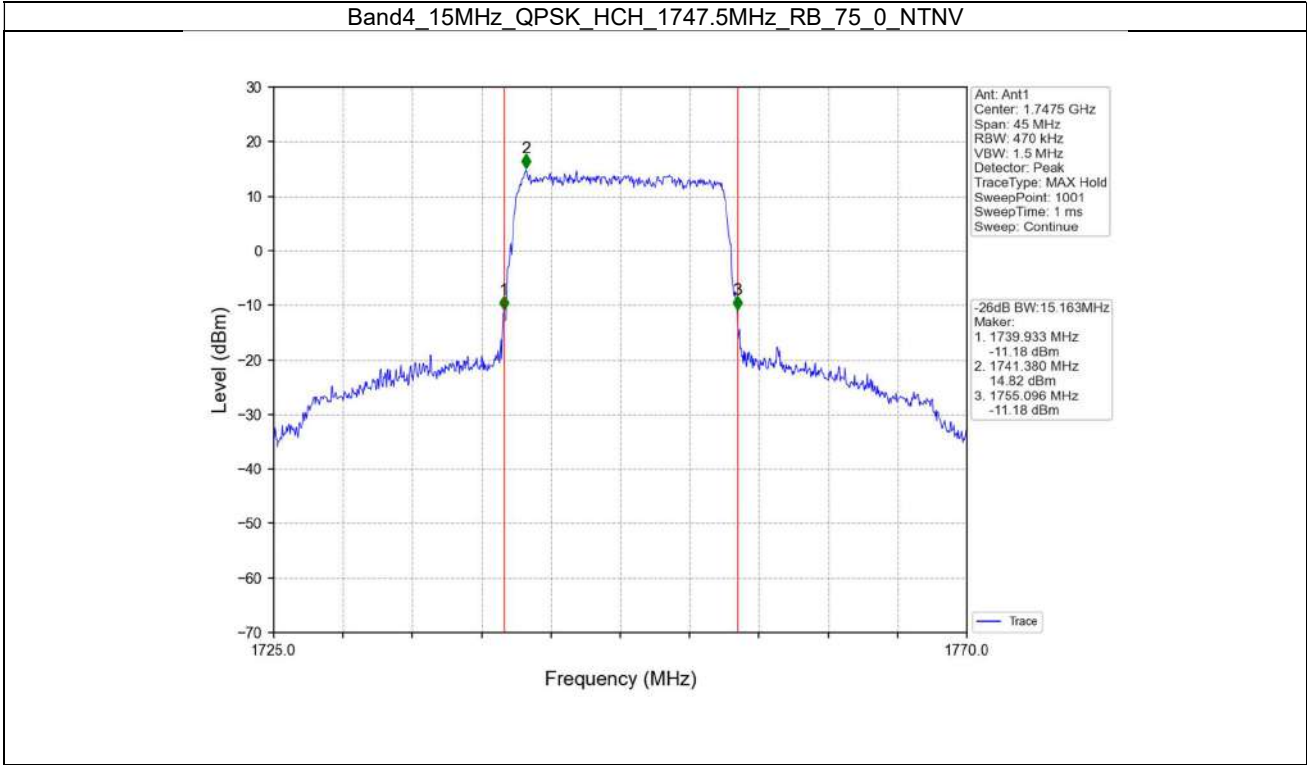
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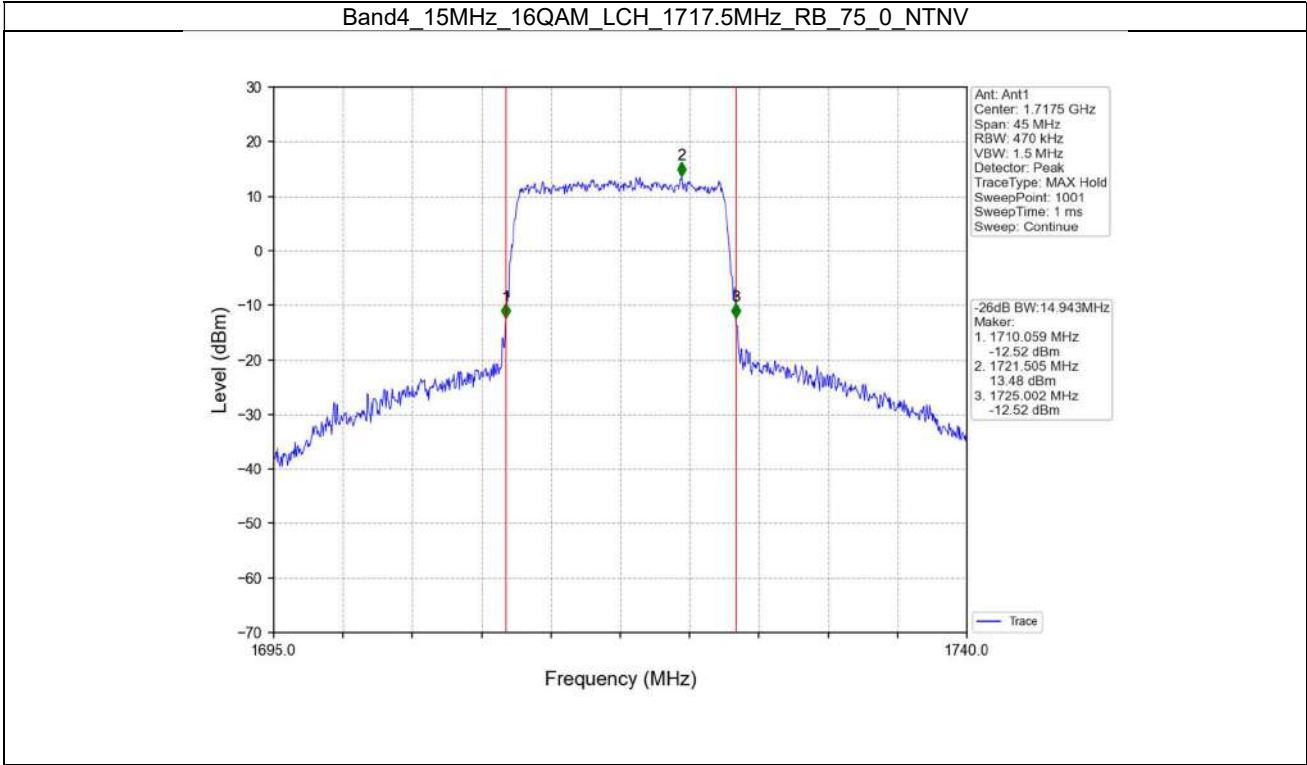
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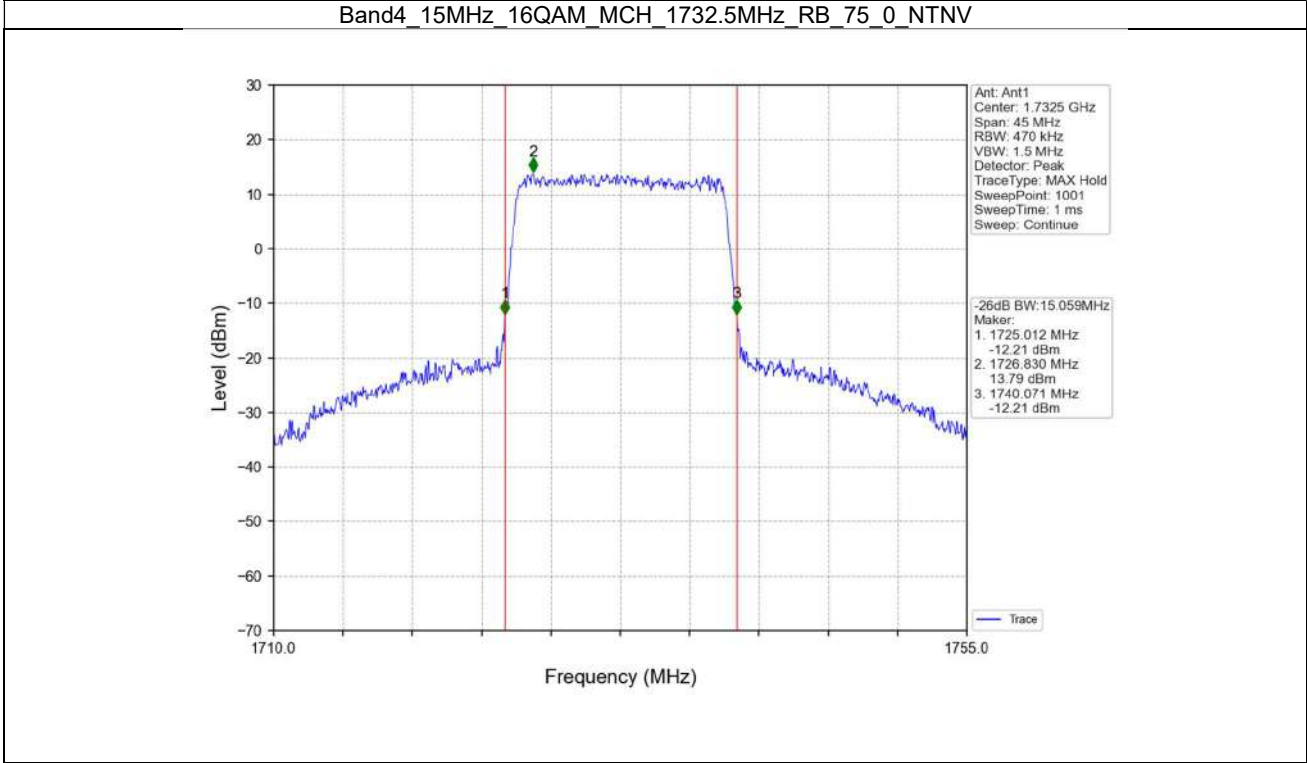


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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



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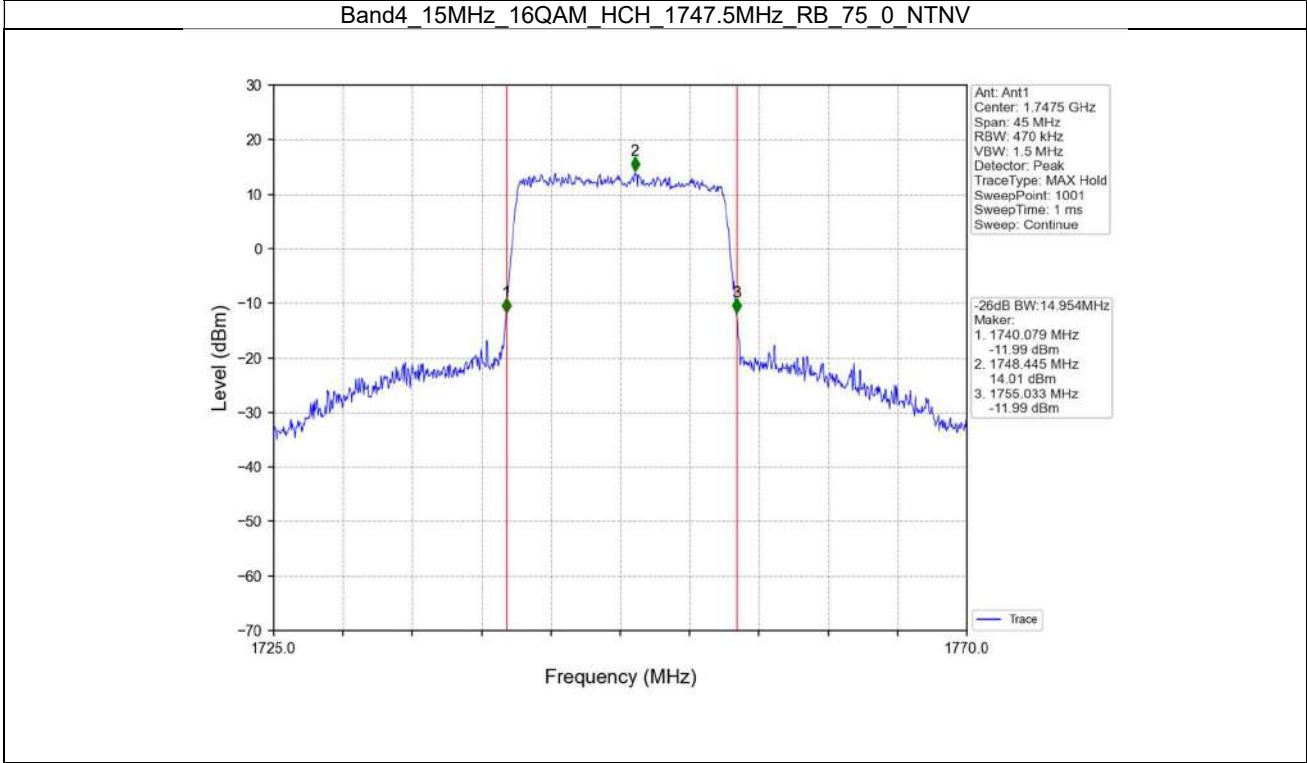
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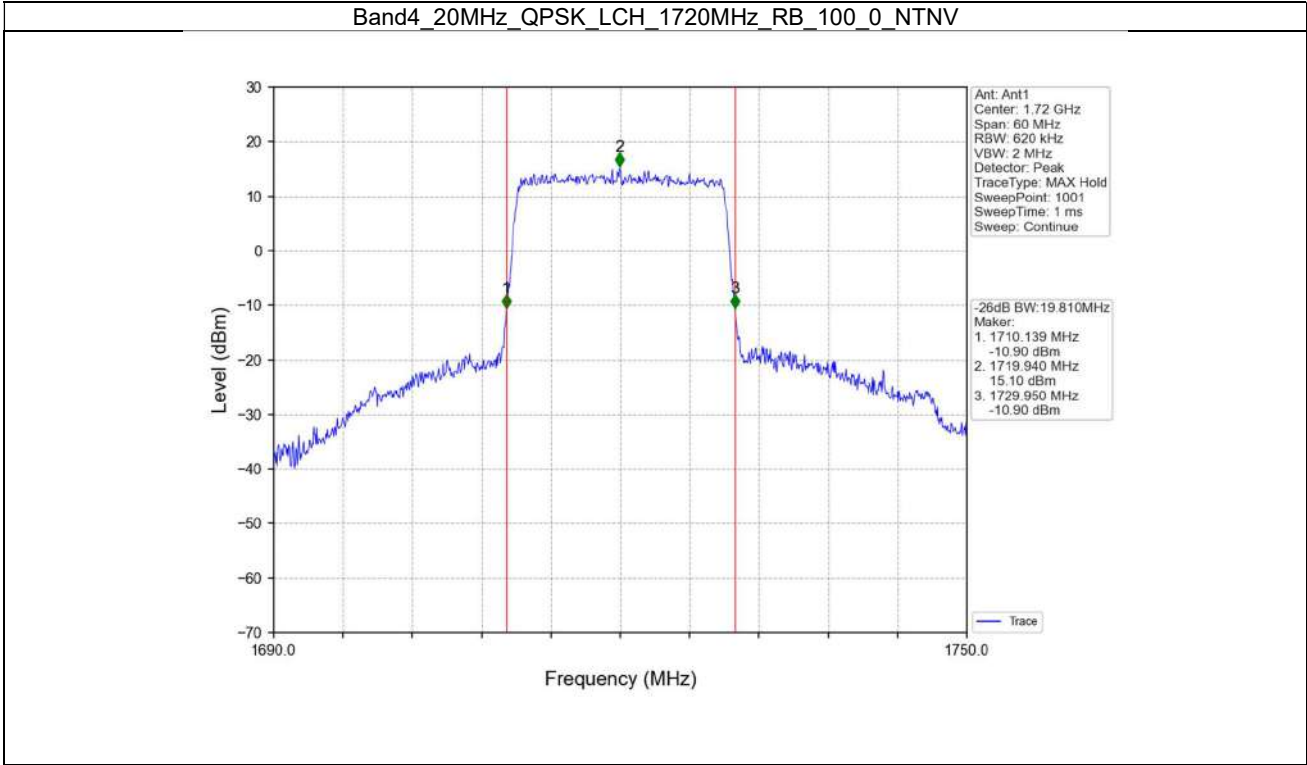
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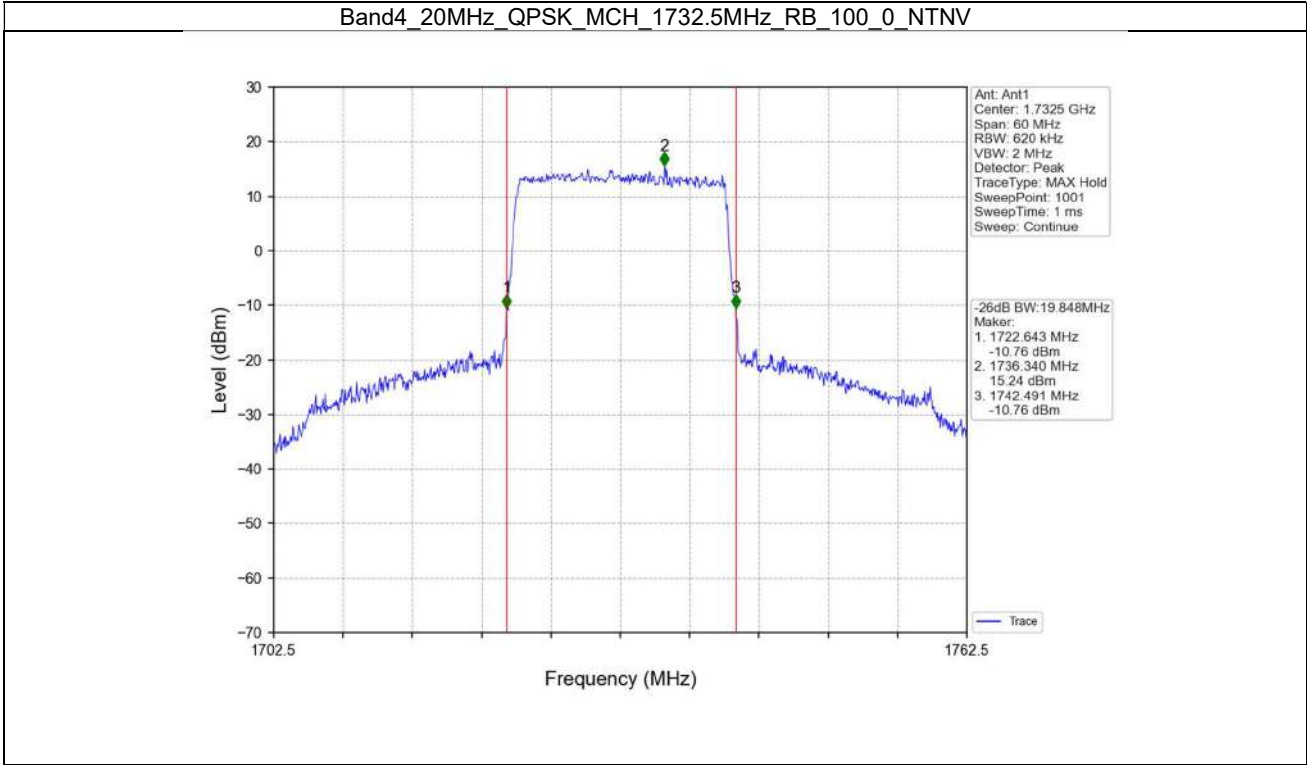
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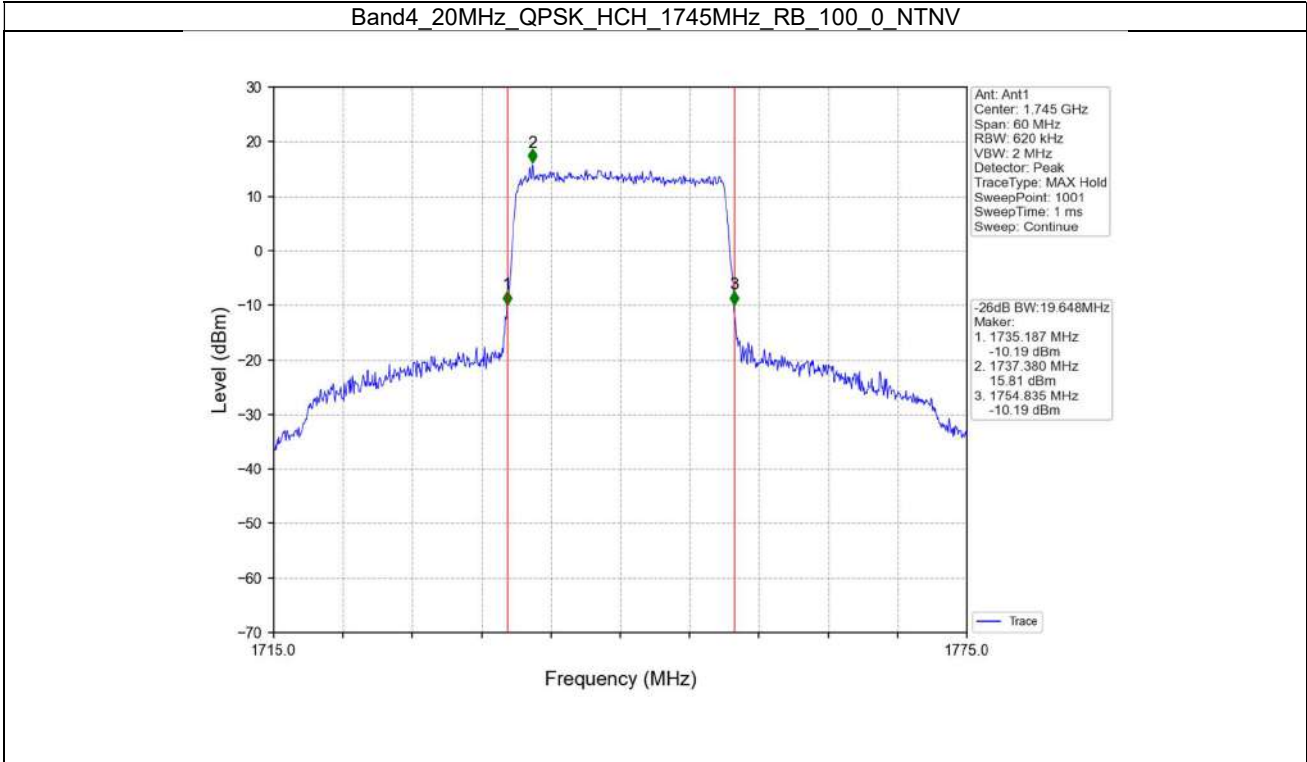
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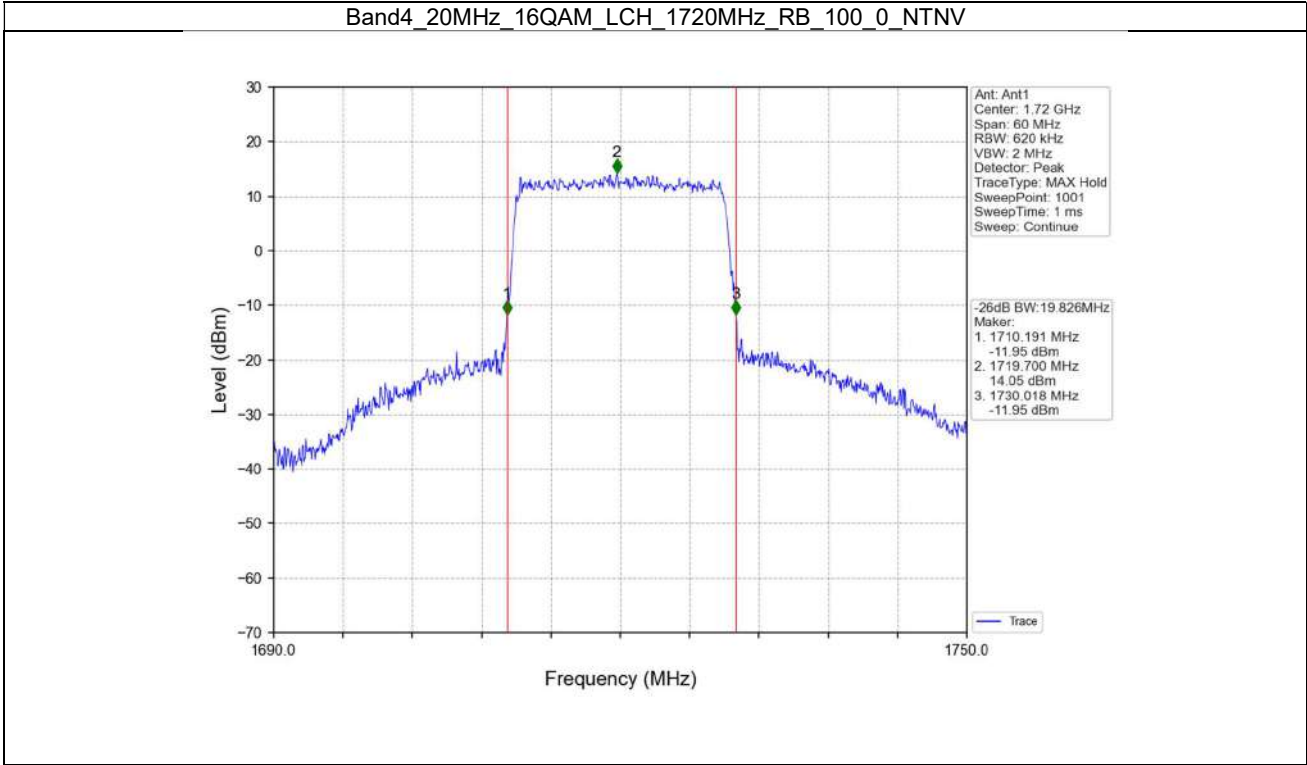
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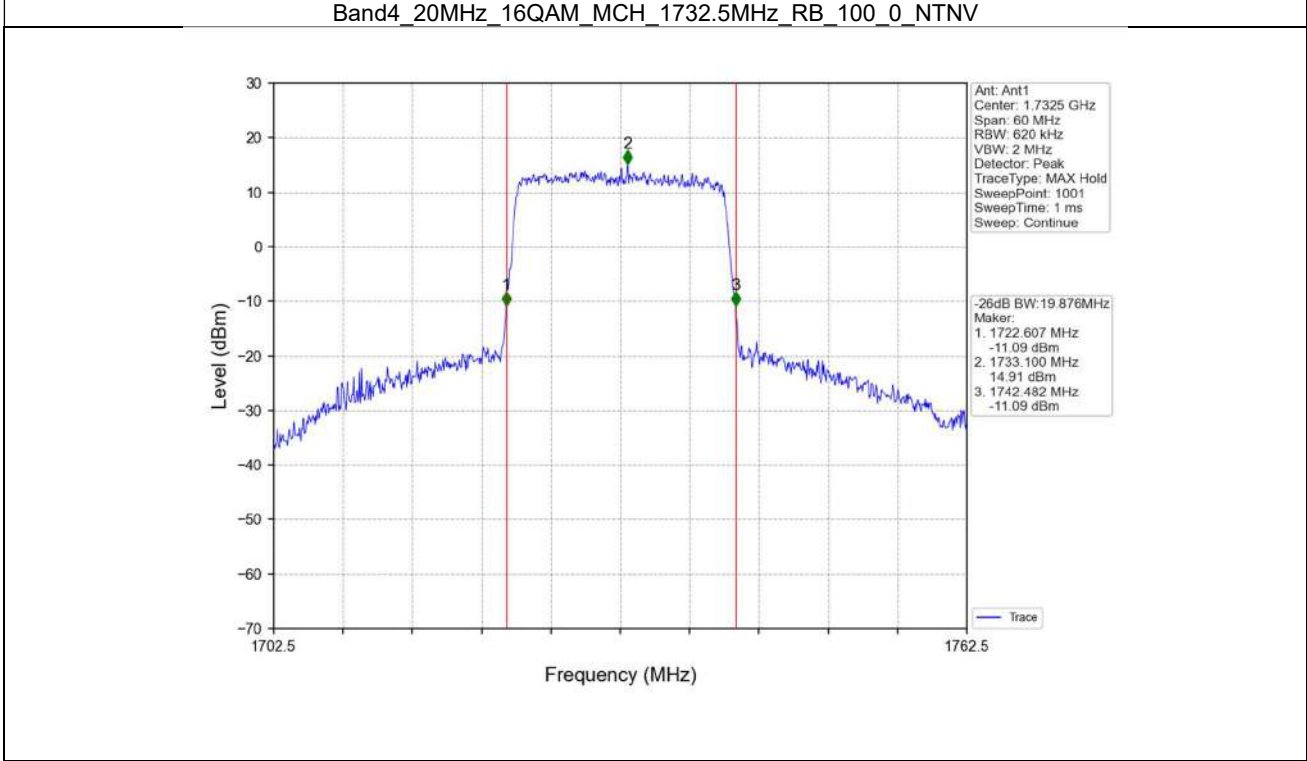


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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



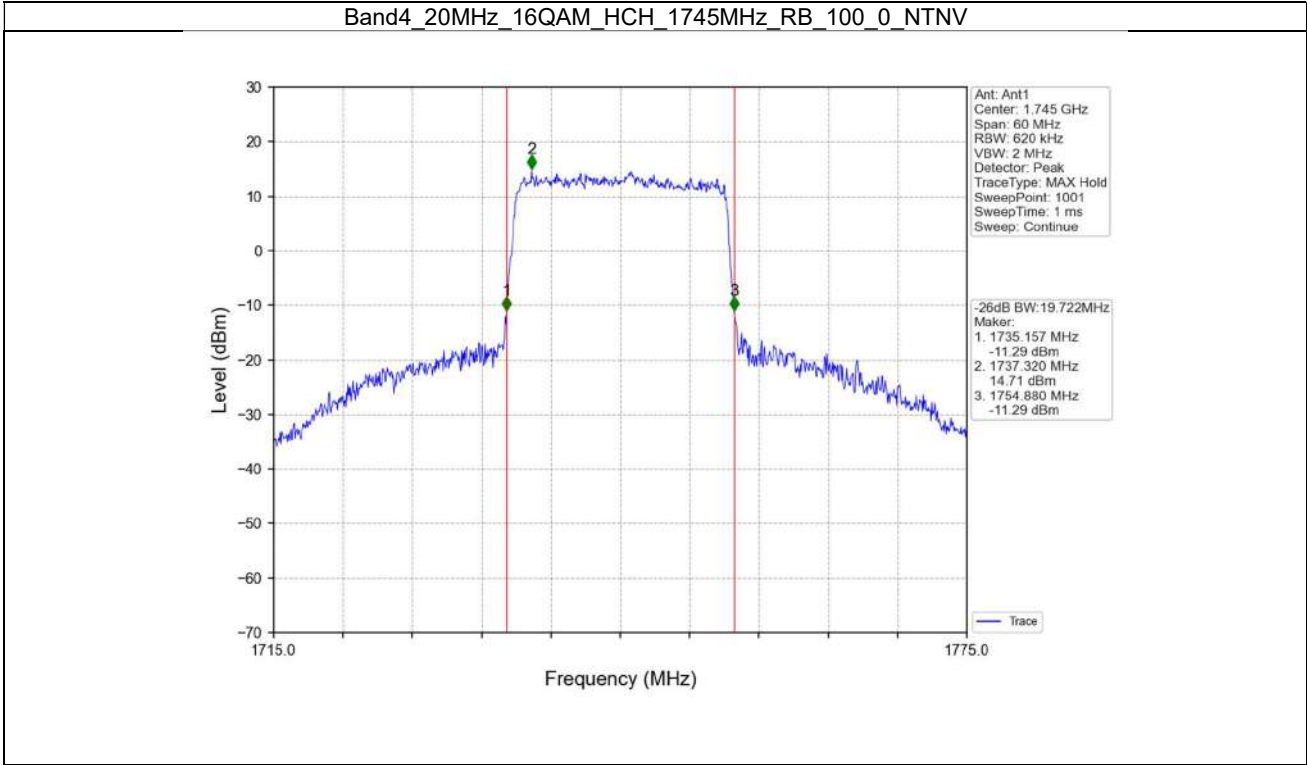
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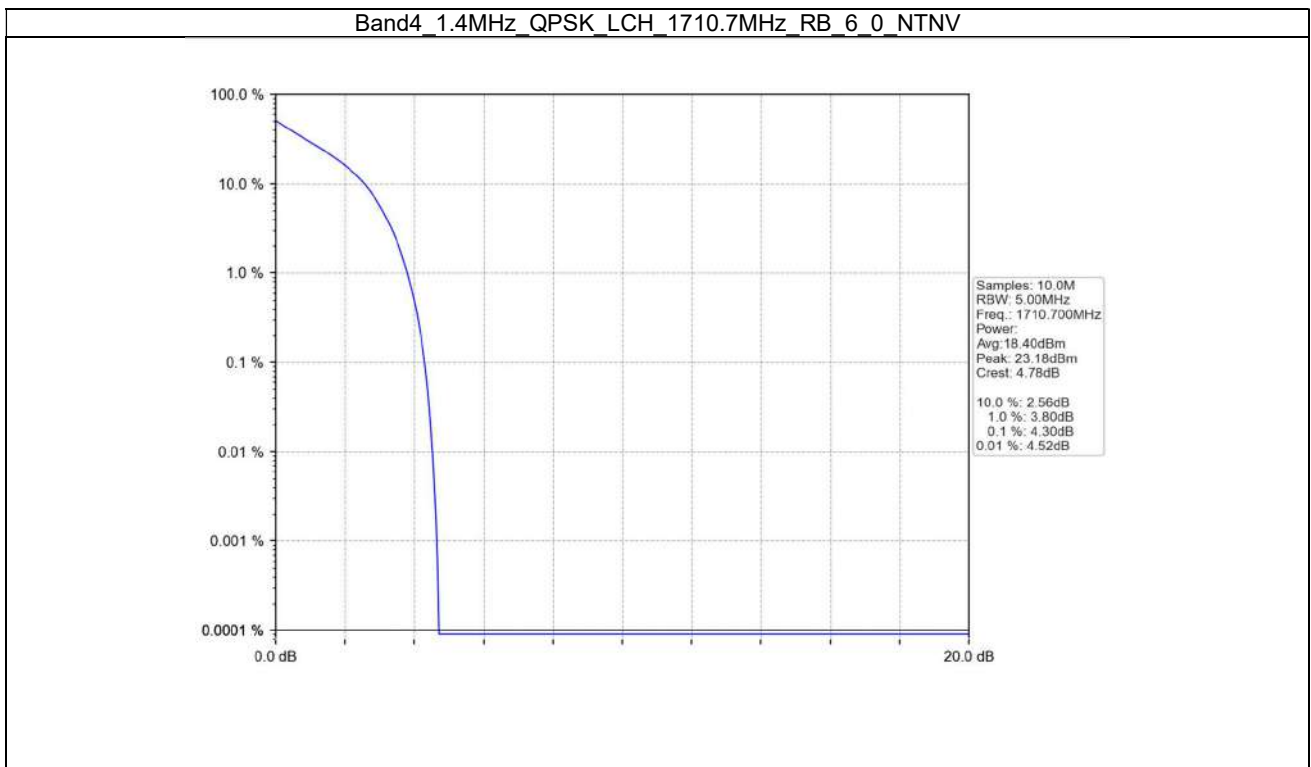
5. Peak-Average Ratio

5.1 B4_1.4MHz

5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	4.30	<=13	Pass
	1732.5	6	0	4.54	<=13	Pass
	1754.3	6	0	4.58	<=13	Pass
16QAM	1710.7	6	0	5.18	<=13	Pass
	1732.5	6	0	5.41	<=13	Pass
	1754.3	6	0	5.32	<=13	Pass

5.1.2 Test Graph



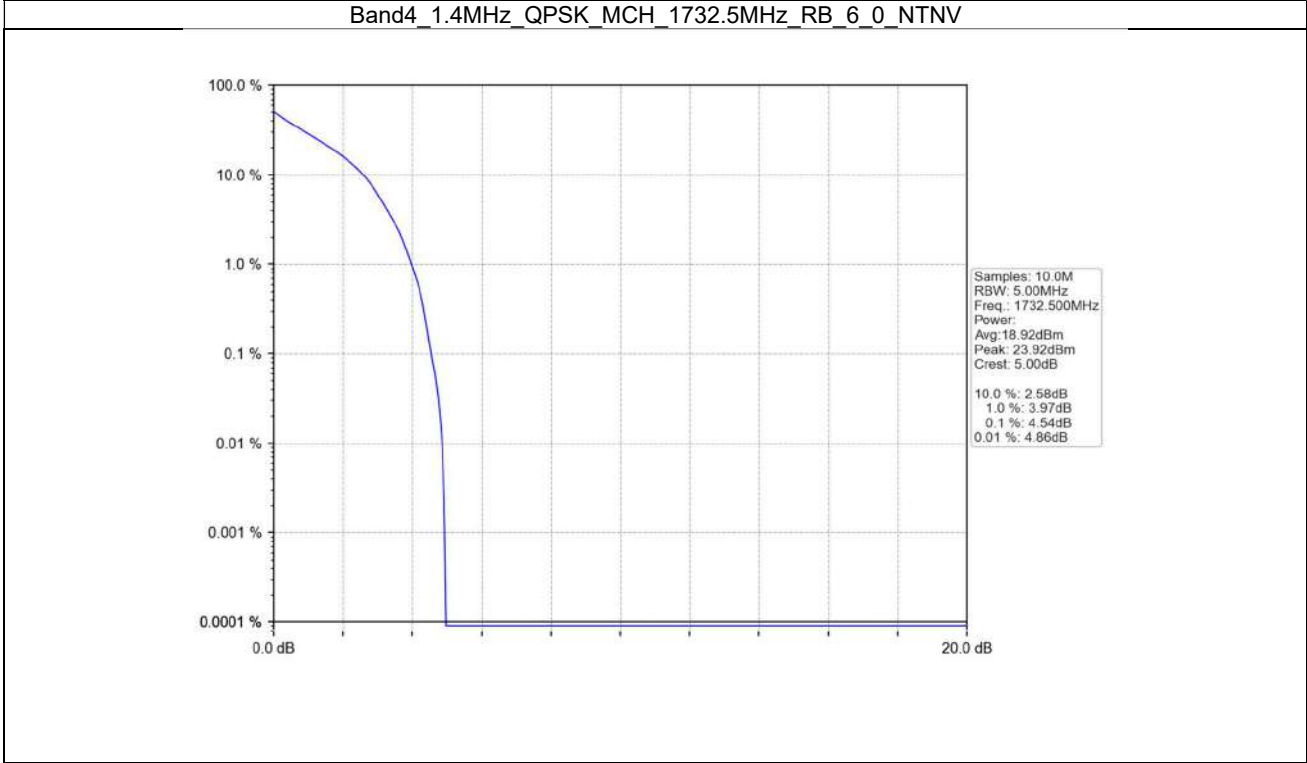
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

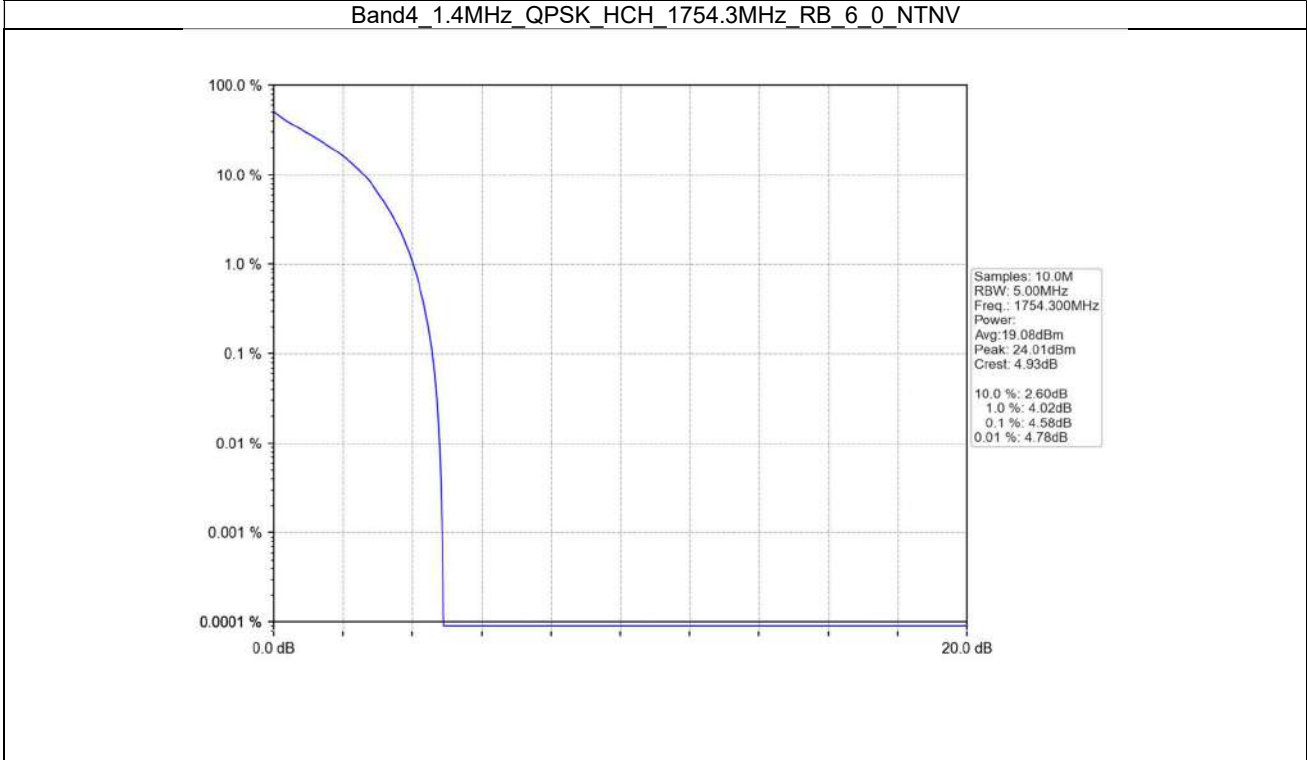


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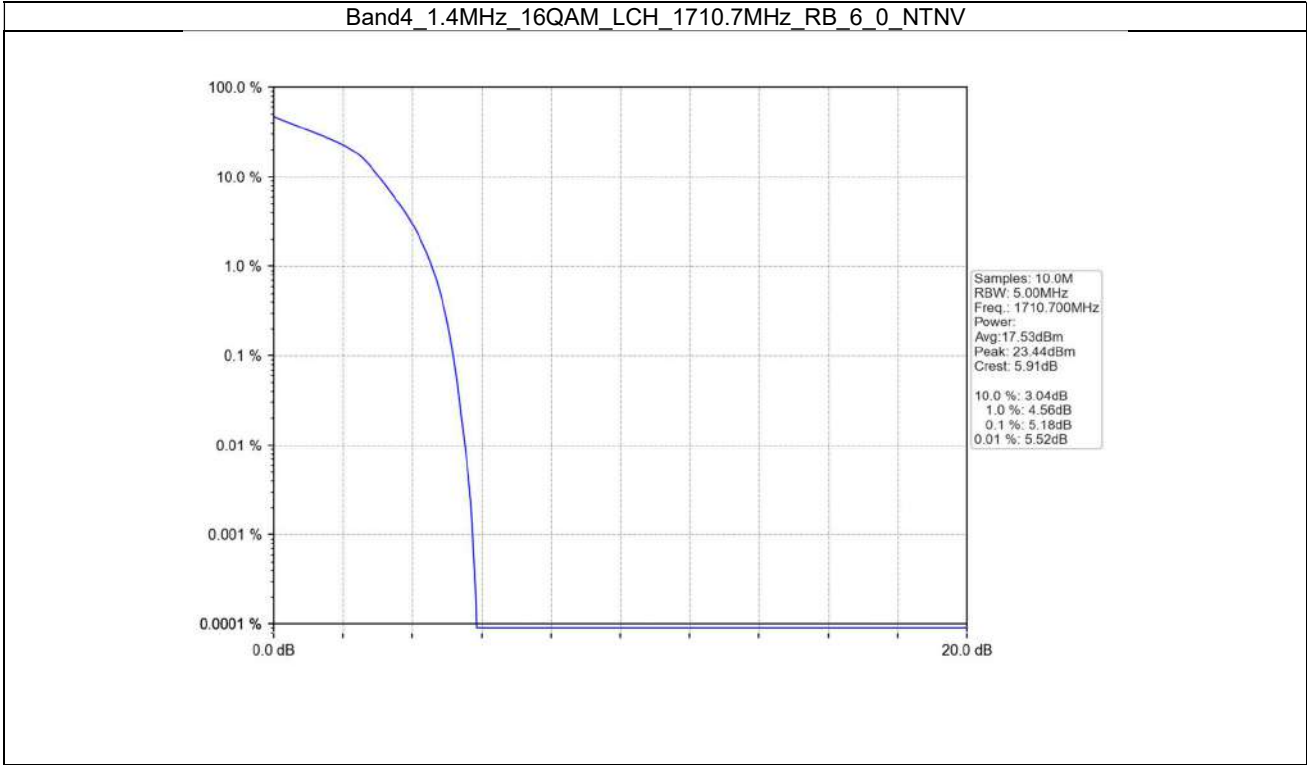
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



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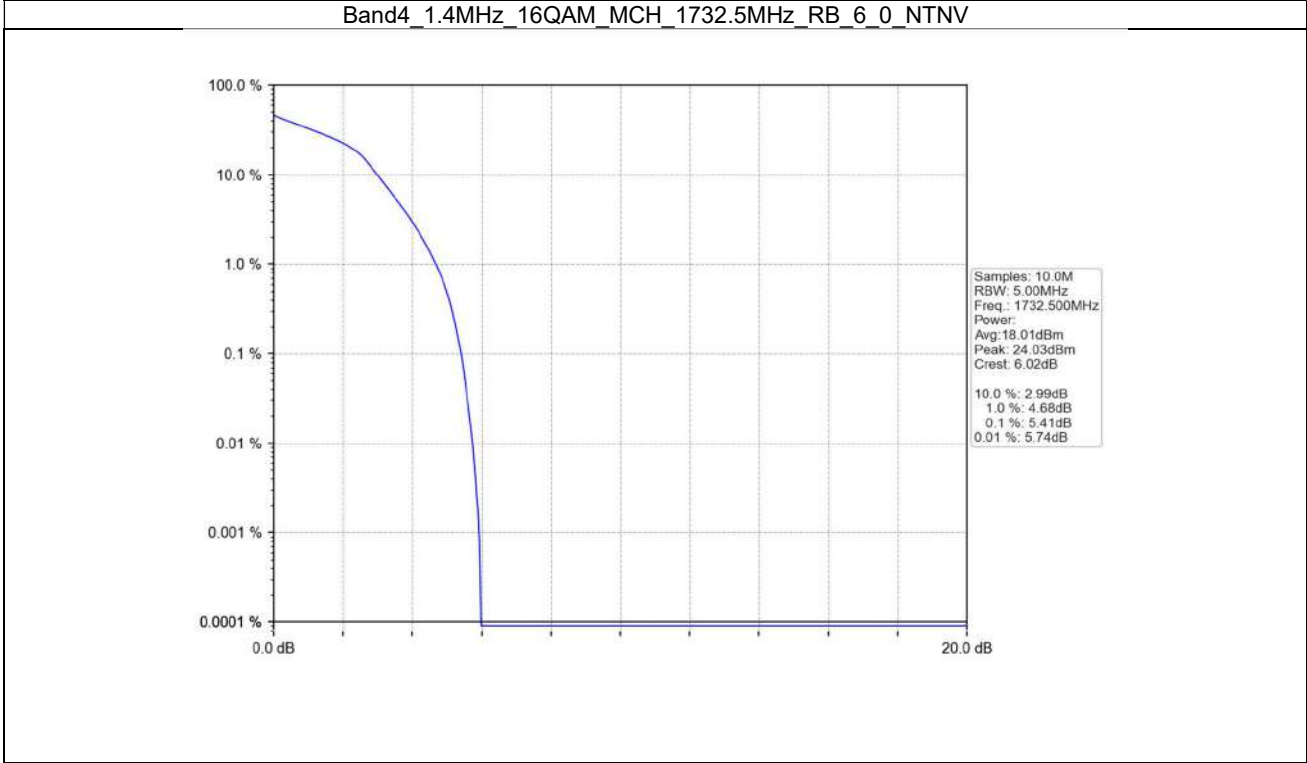


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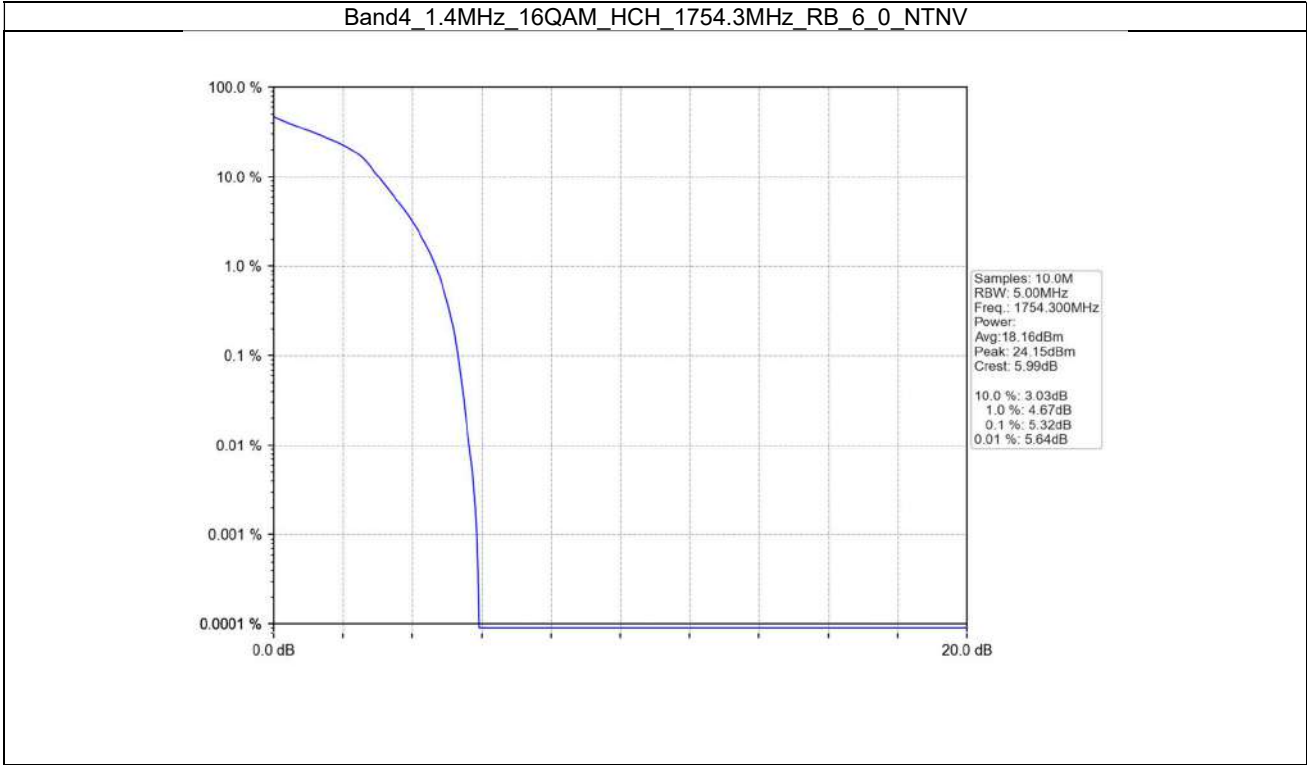
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5.2 B4_3MHz

5.2.1 Test Result

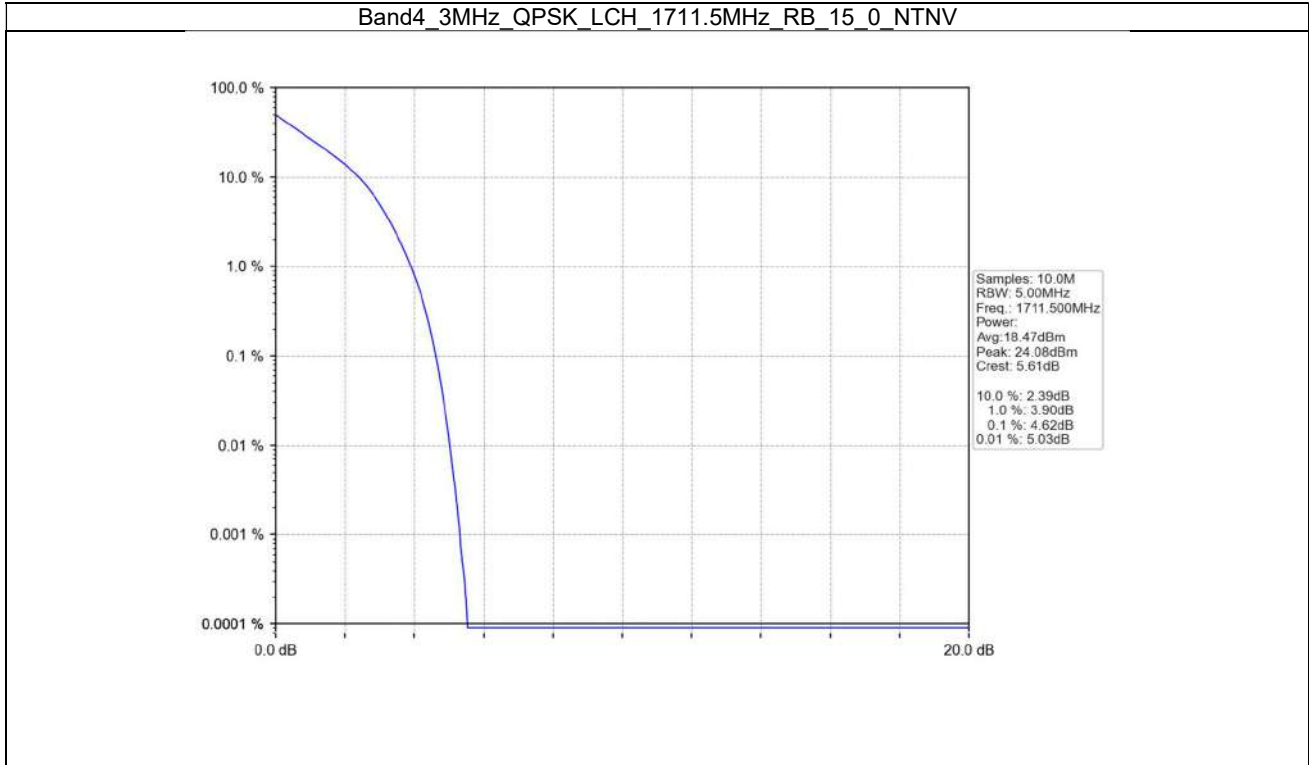
Band: 4 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	4.62	<=13	Pass
	1732.5	15	0	4.80	<=13	Pass
	1753.5	15	0	4.78	<=13	Pass
16QAM	1711.5	15	0	5.44	<=13	Pass
	1732.5	15	0	5.65	<=13	Pass
	1753.5	15	0	5.58	<=13	Pass



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5.2.2 Test Graph



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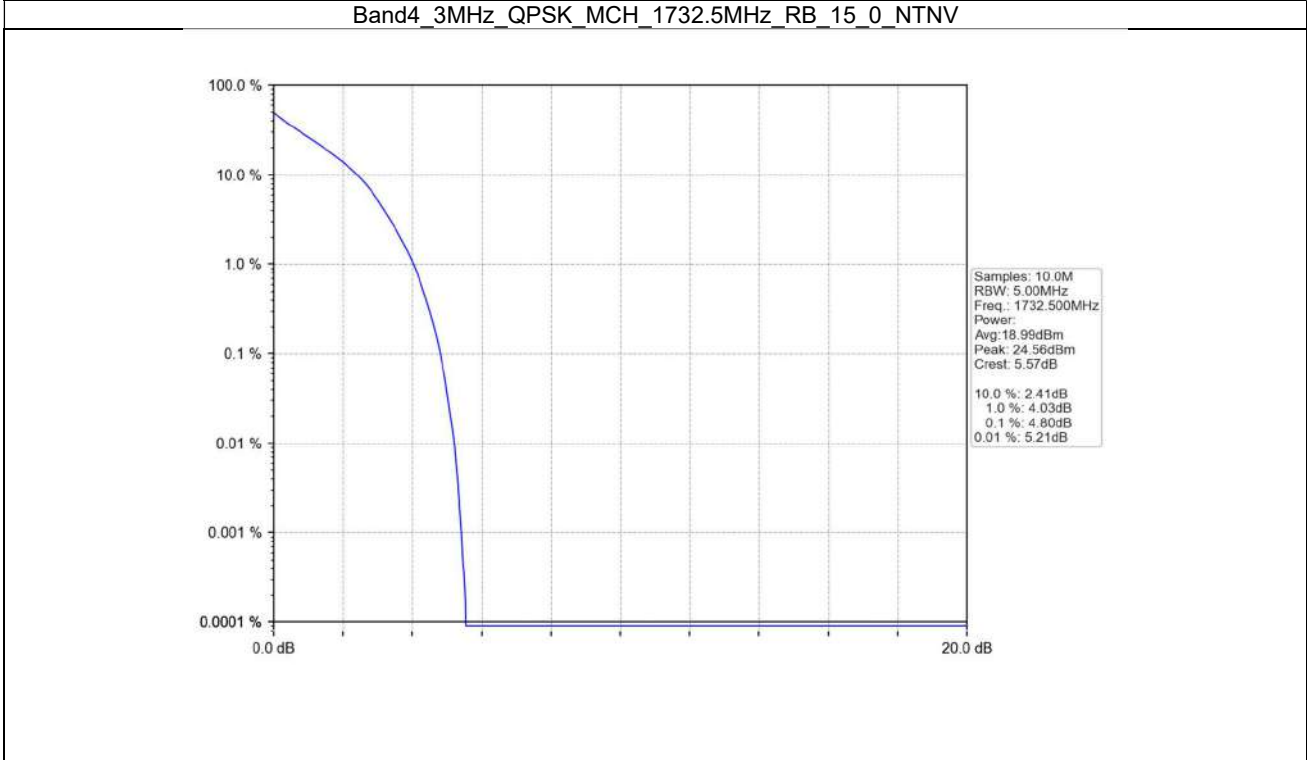
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Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

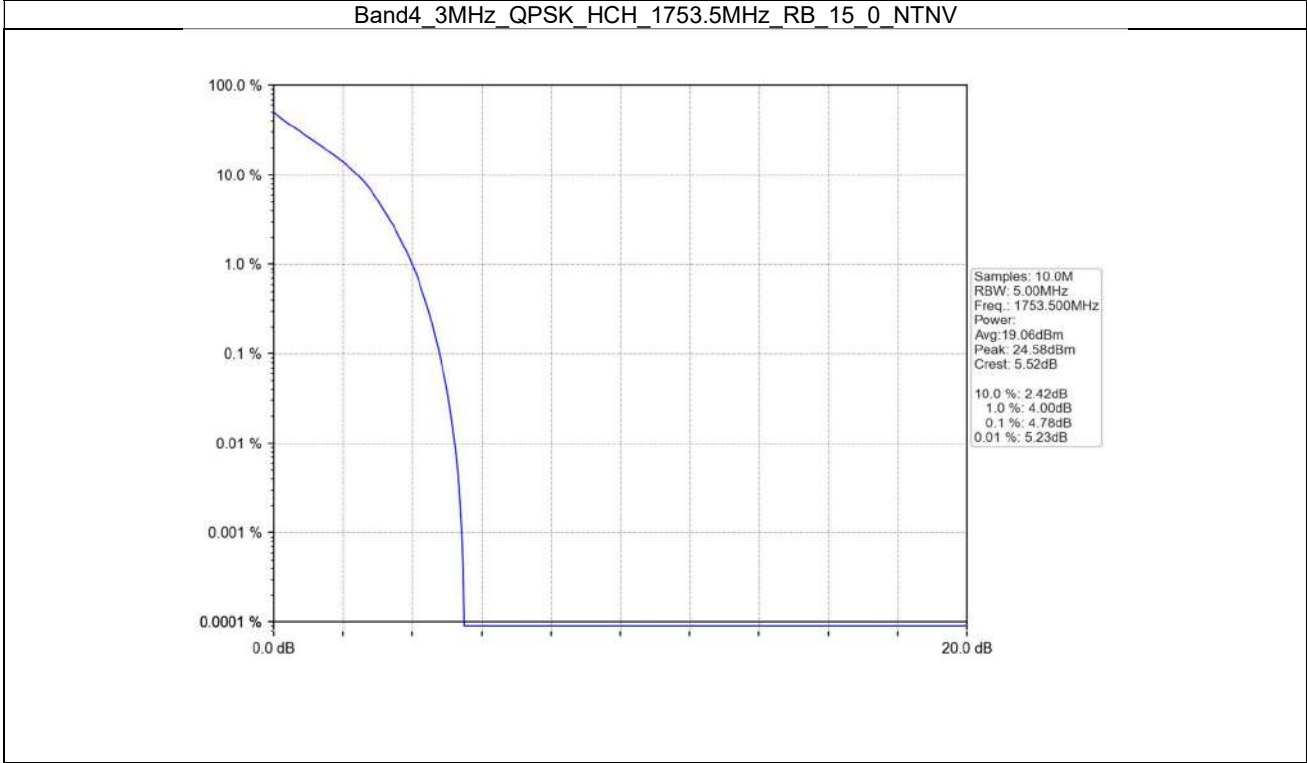


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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV

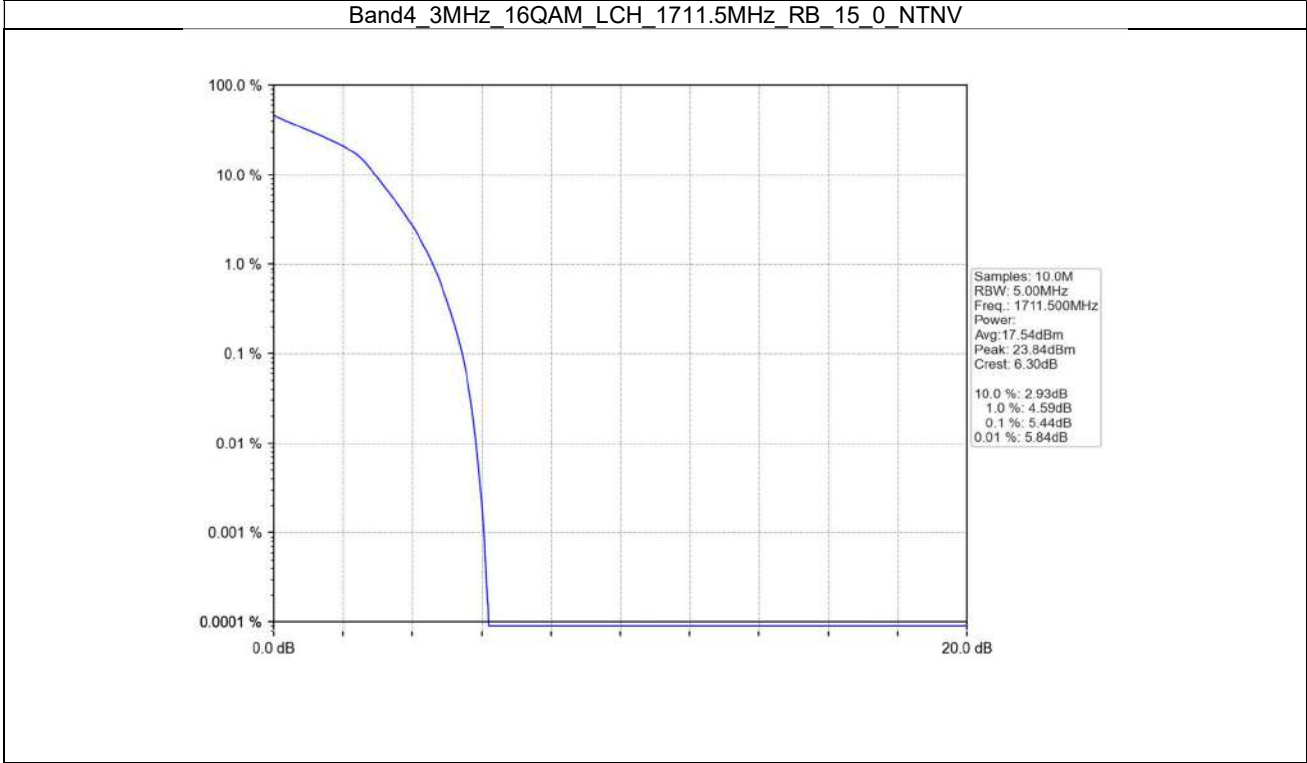


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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



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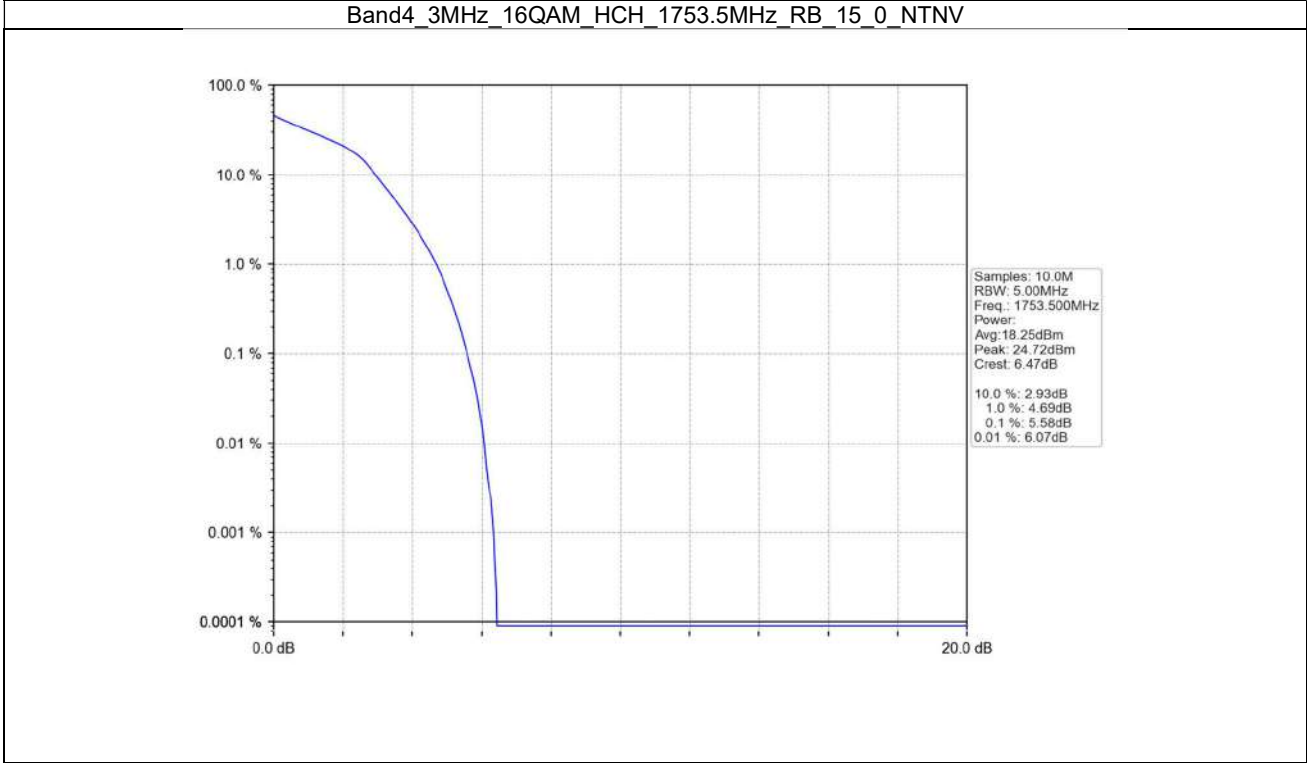


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Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



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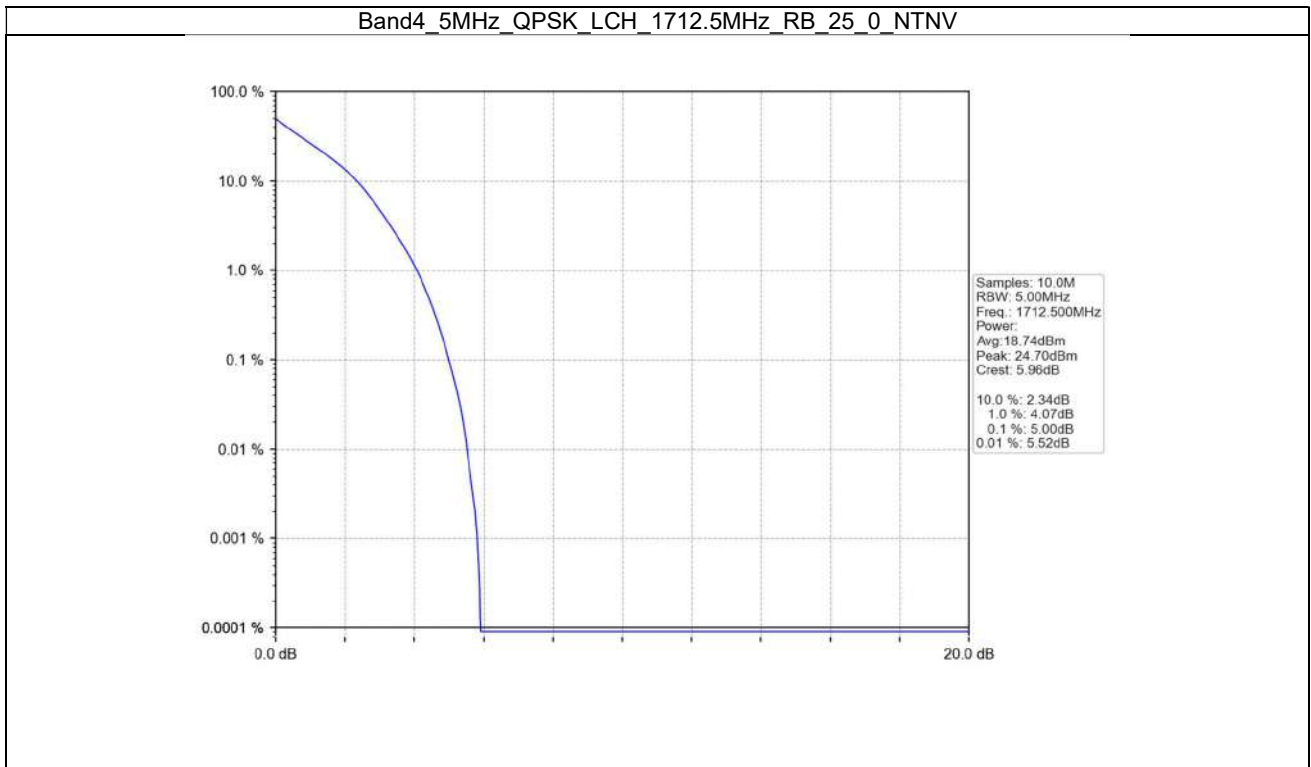
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5.3 B4_5MHz

5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.00	<=13	Pass
	1732.5	25	0	5.11	<=13	Pass
	1752.5	25	0	5.11	<=13	Pass
16QAM	1712.5	25	0	5.73	<=13	Pass
	1732.5	25	0	5.85	<=13	Pass
	1752.5	25	0	5.82	<=13	Pass

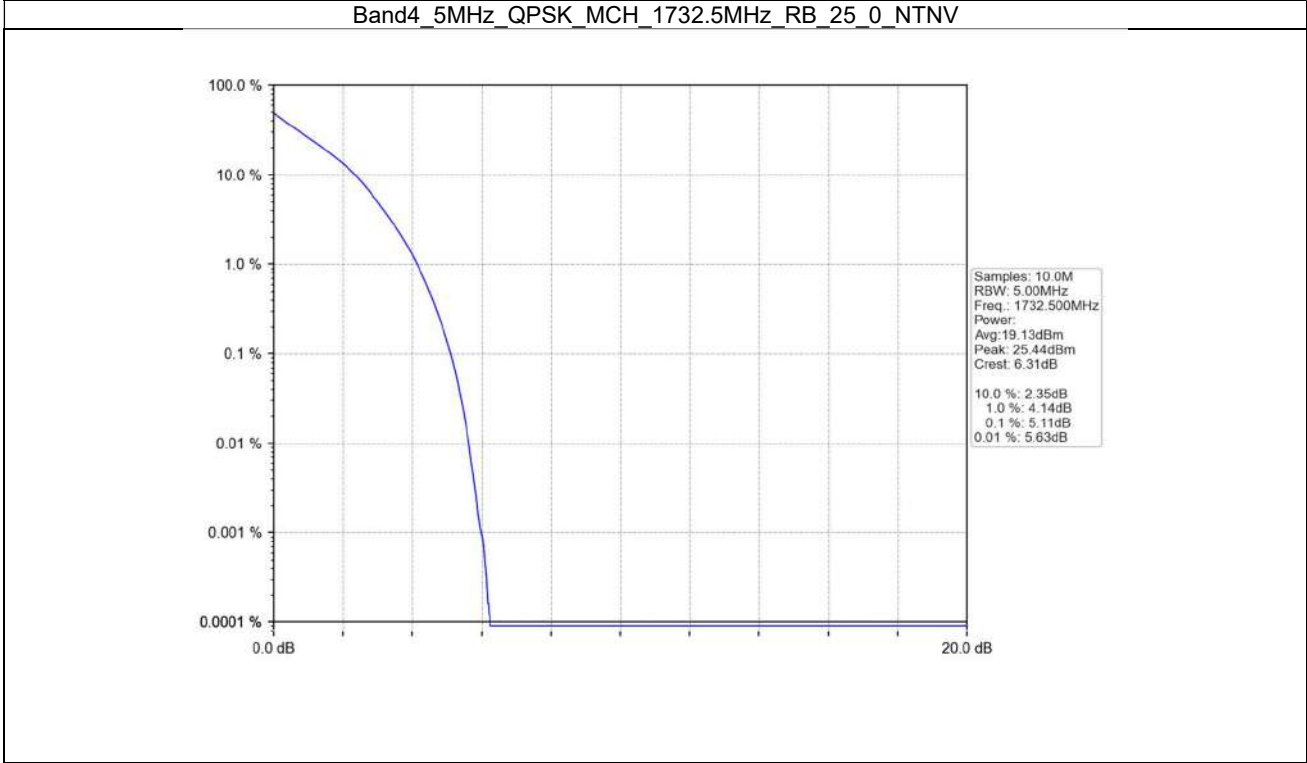
5.3.2 Test Graph



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Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

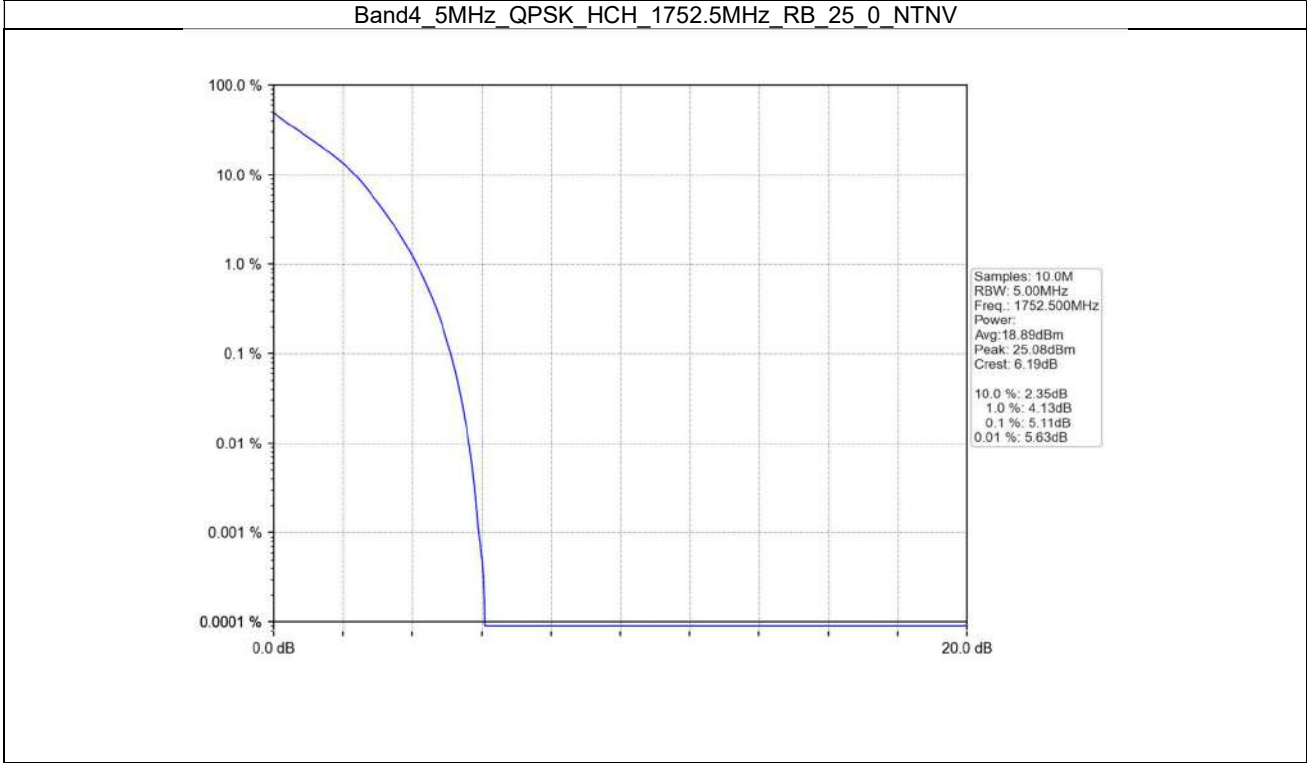


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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



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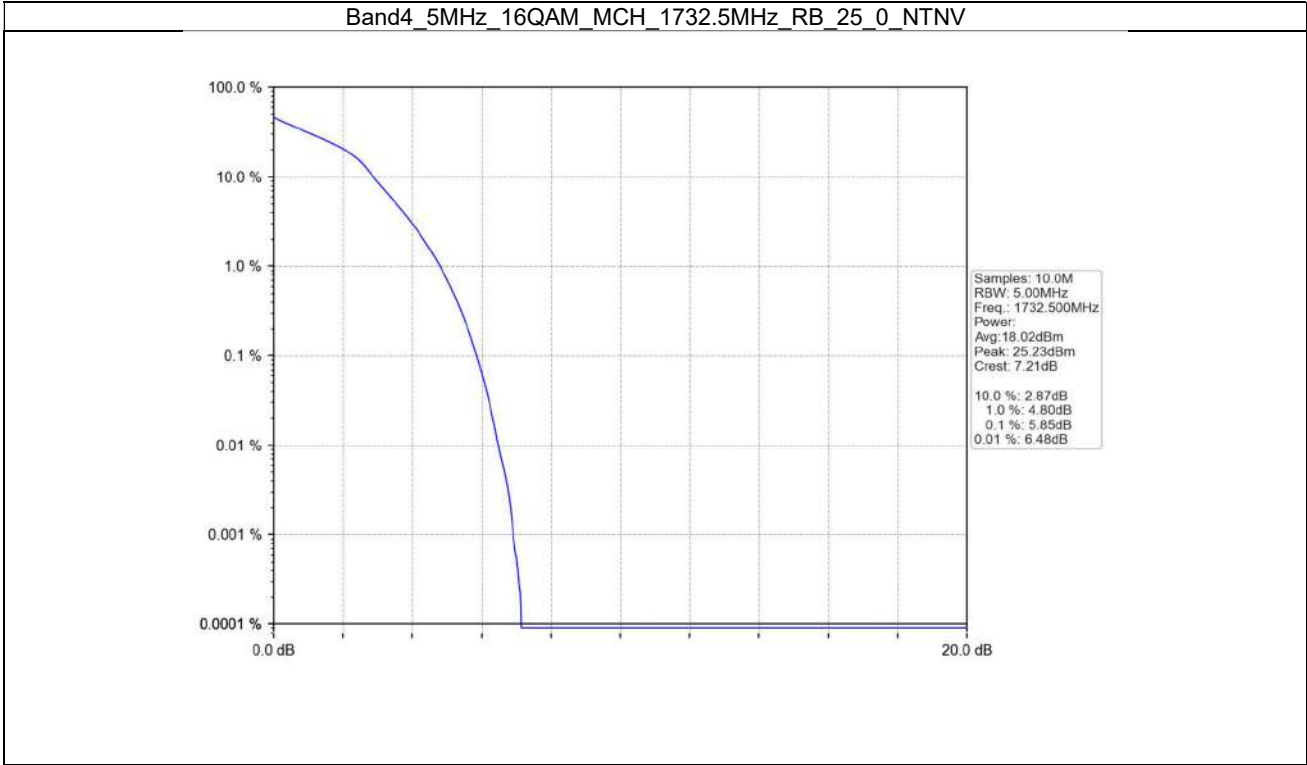
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5.4 B4_10MHz

5.4.1 Test Result

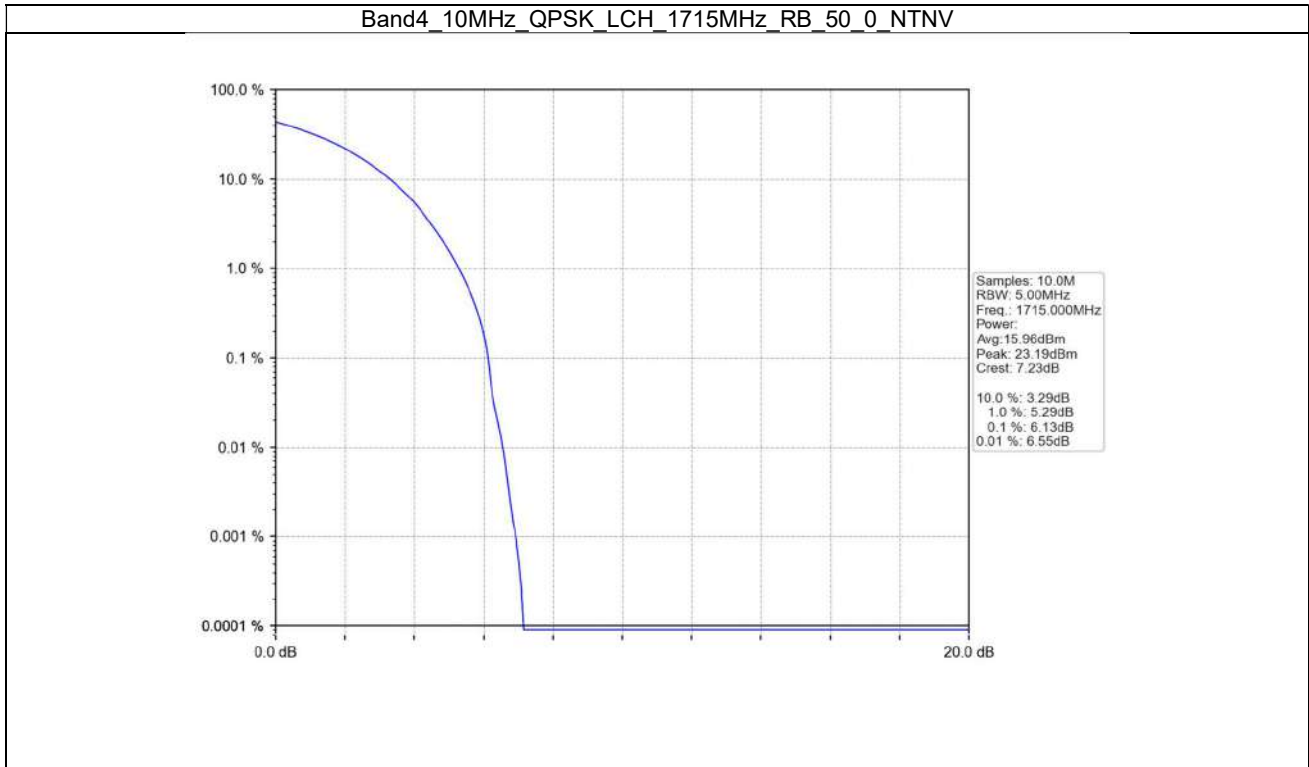
Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	6.13	<=13	Pass
	1732.5	50	0	6.10	<=13	Pass
	1750	50	0	6.13	<=13	Pass
16QAM	1715	50	0	6.76	<=13	Pass
	1732.5	50	0	6.72	<=13	Pass
	1750	50	0	6.81	<=13	Pass



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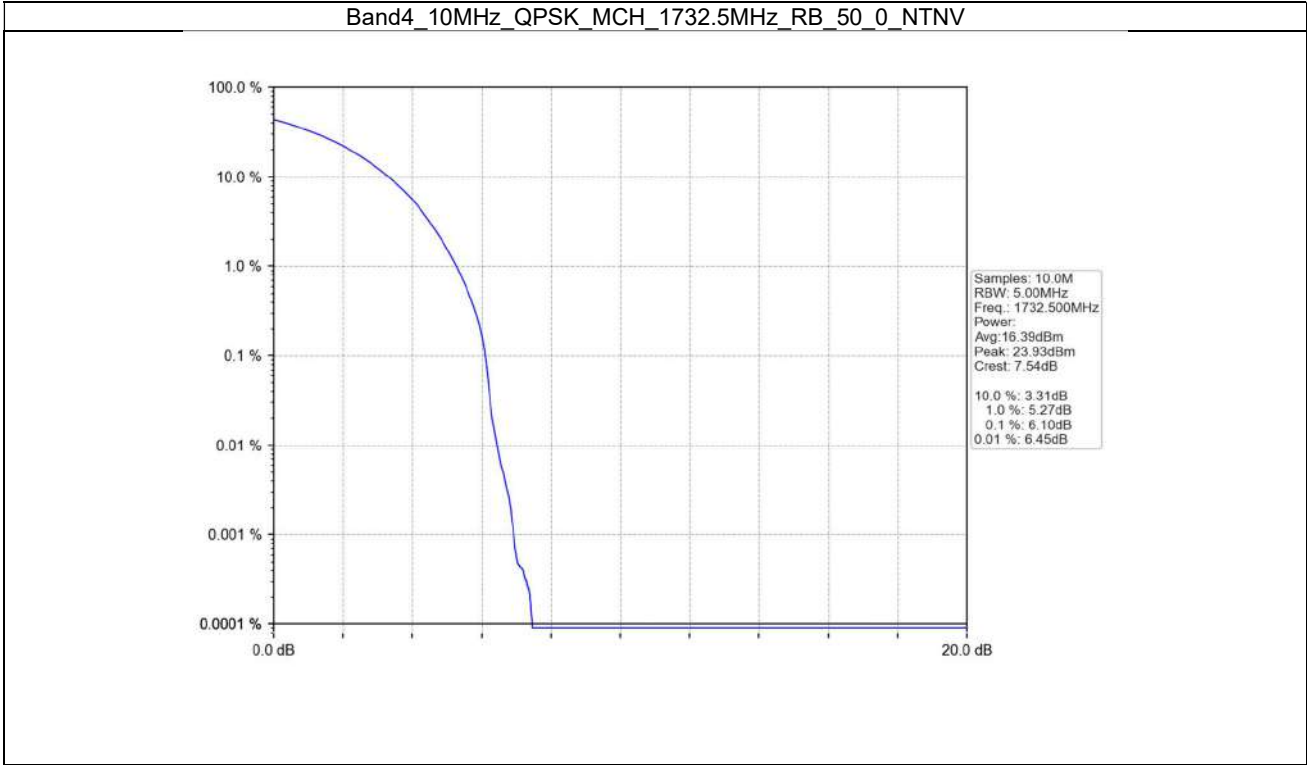
5.4.2 Test Graph



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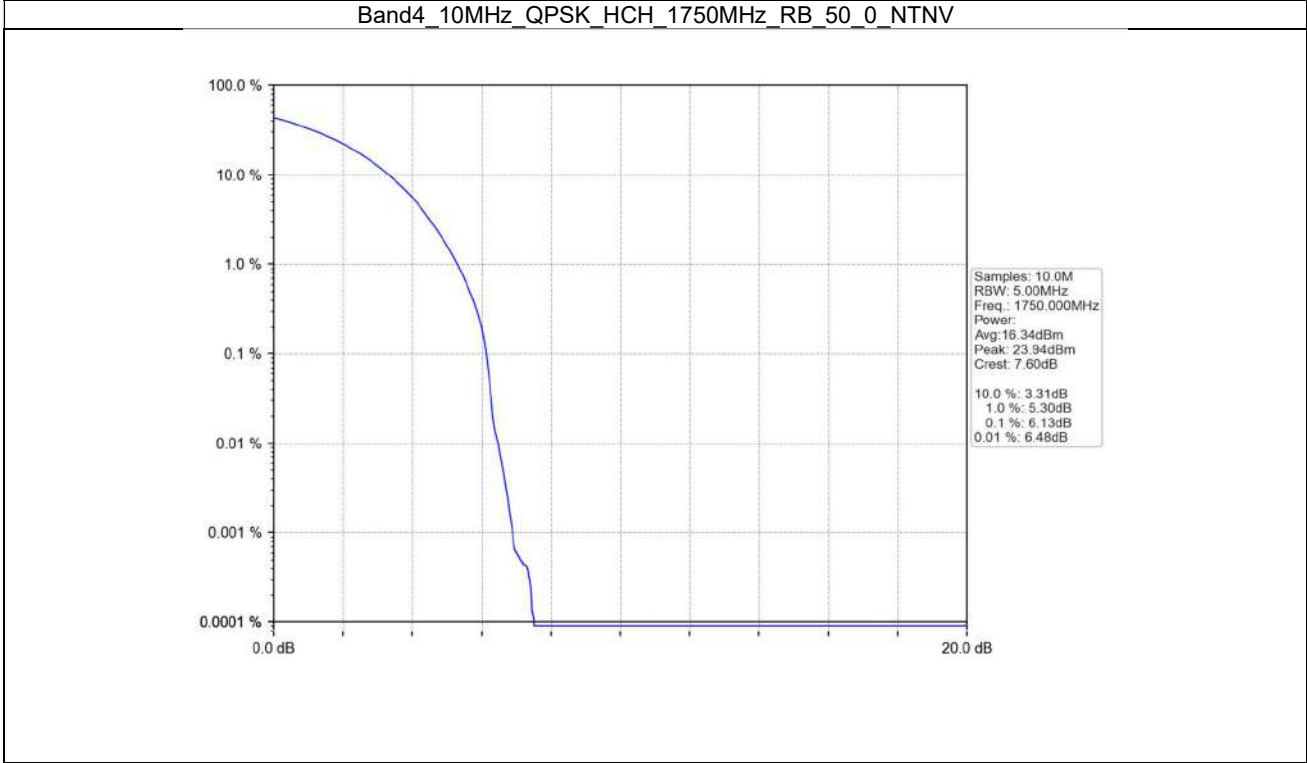


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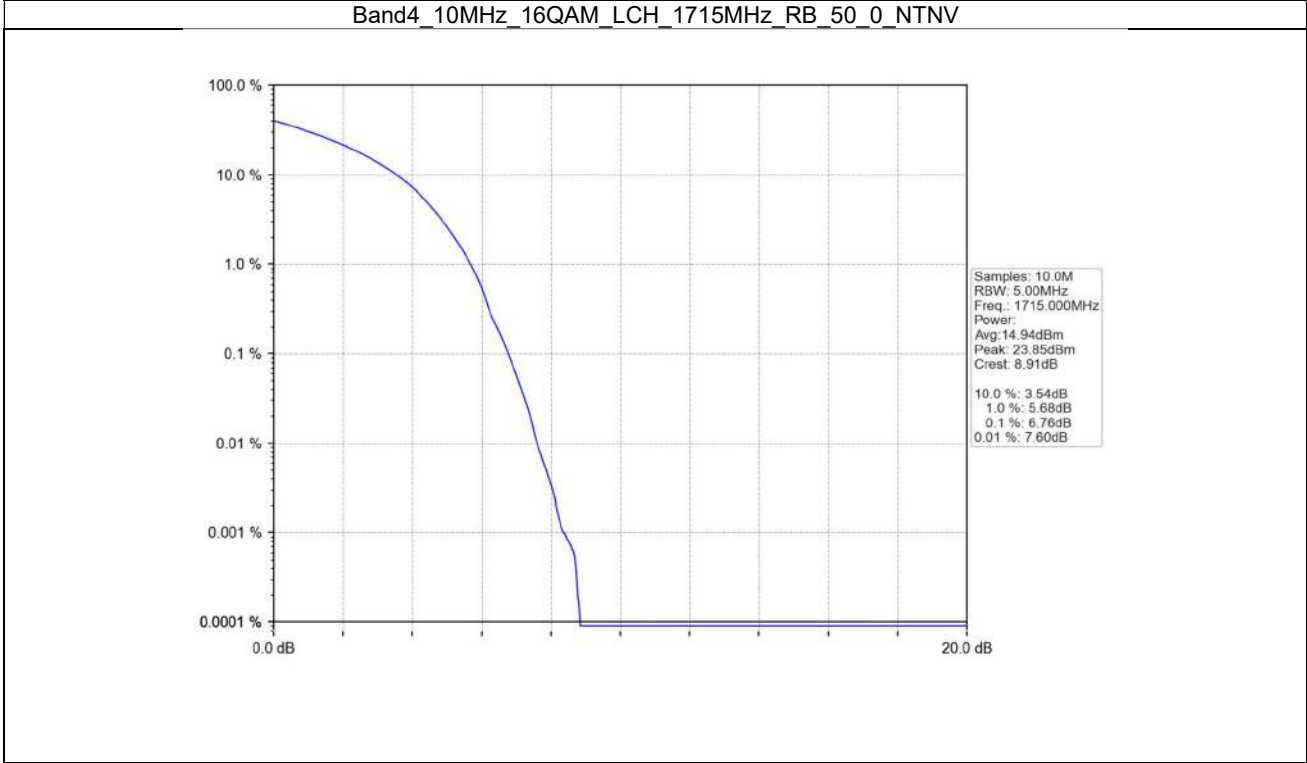


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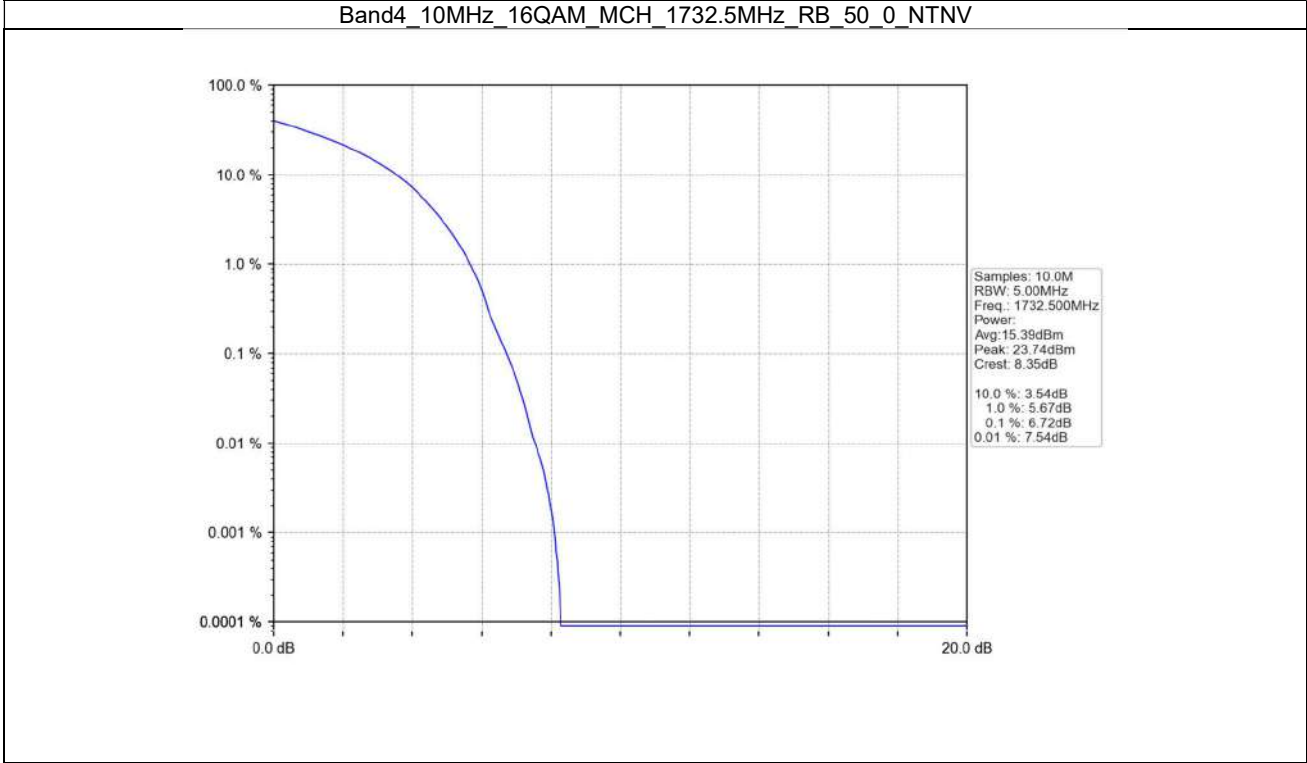


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Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

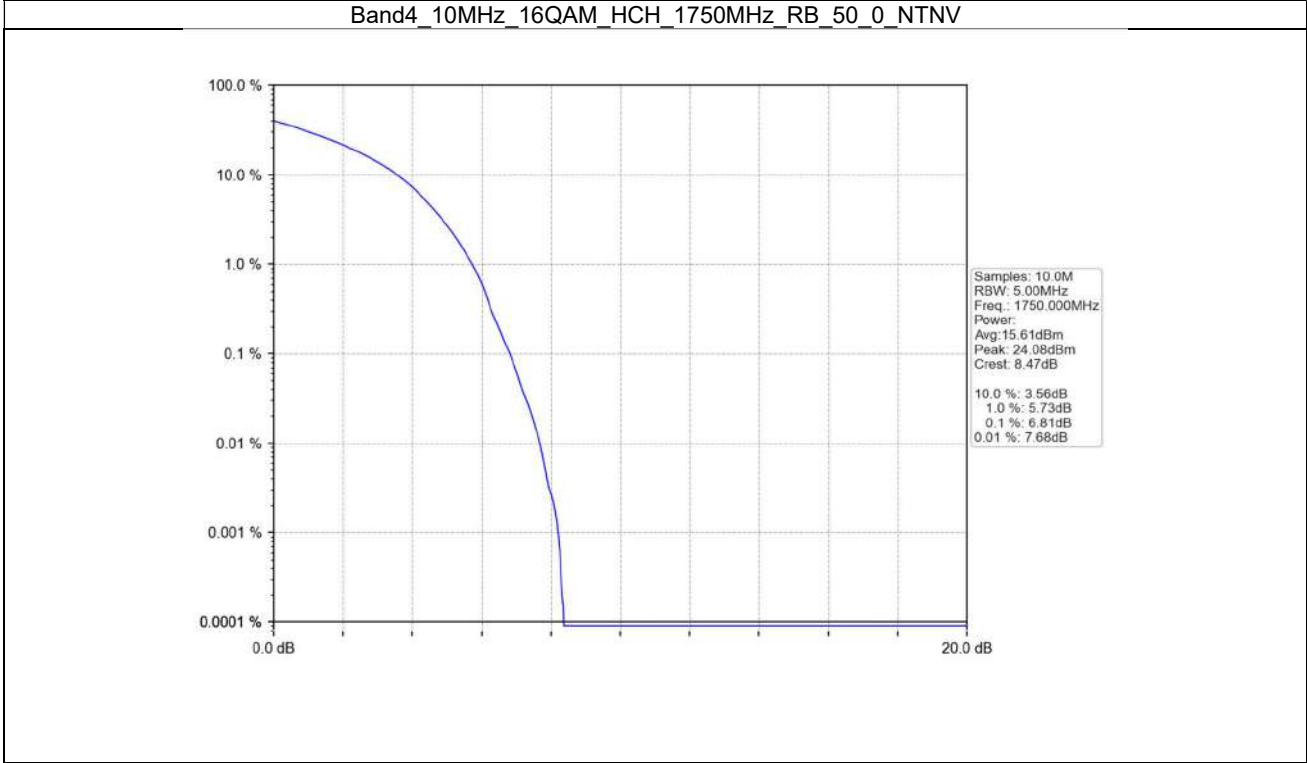


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Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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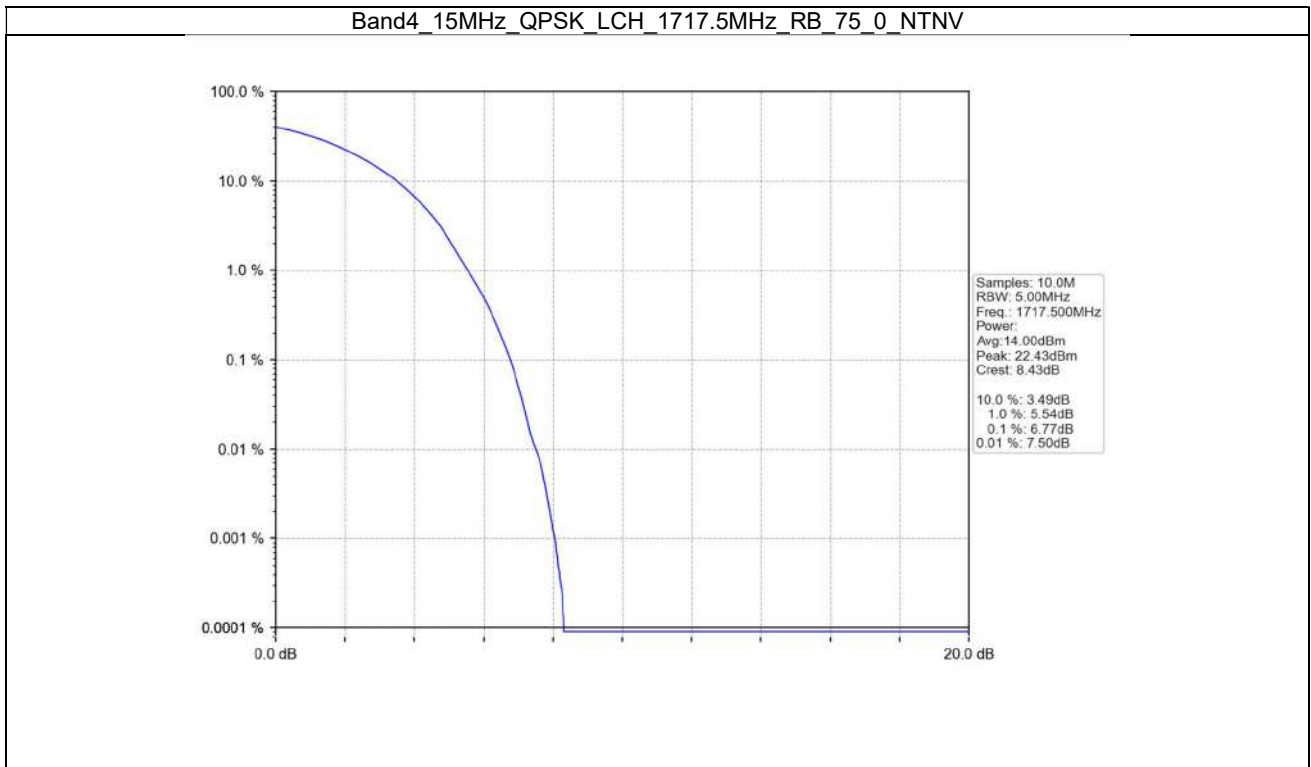
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5.5 B4_15MHz

5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	6.77	<=13	Pass
	1732.5	75	0	6.72	<=13	Pass
	1747.5	75	0	6.80	<=13	Pass
16QAM	1717.5	75	0	7.32	<=13	Pass
	1732.5	75	0	7.33	<=13	Pass
	1747.5	75	0	7.30	<=13	Pass

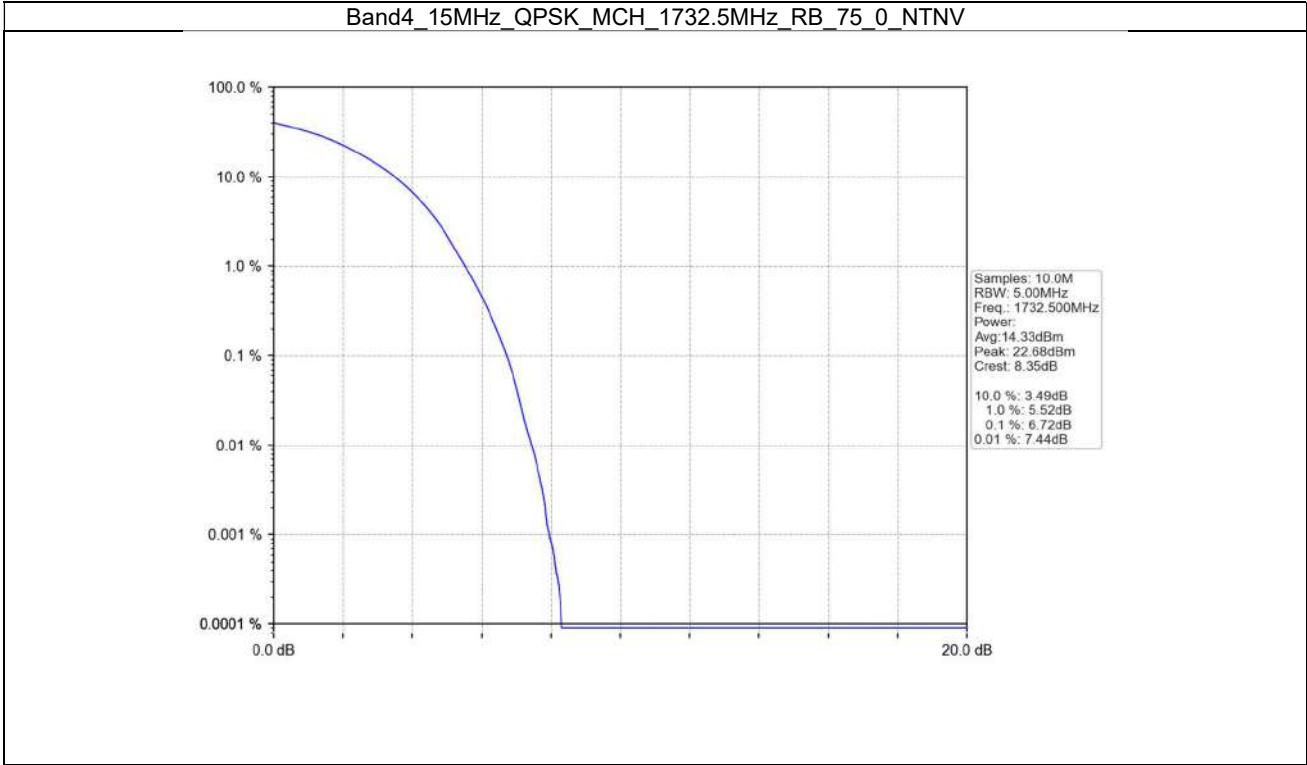
5.5.2 Test Graph



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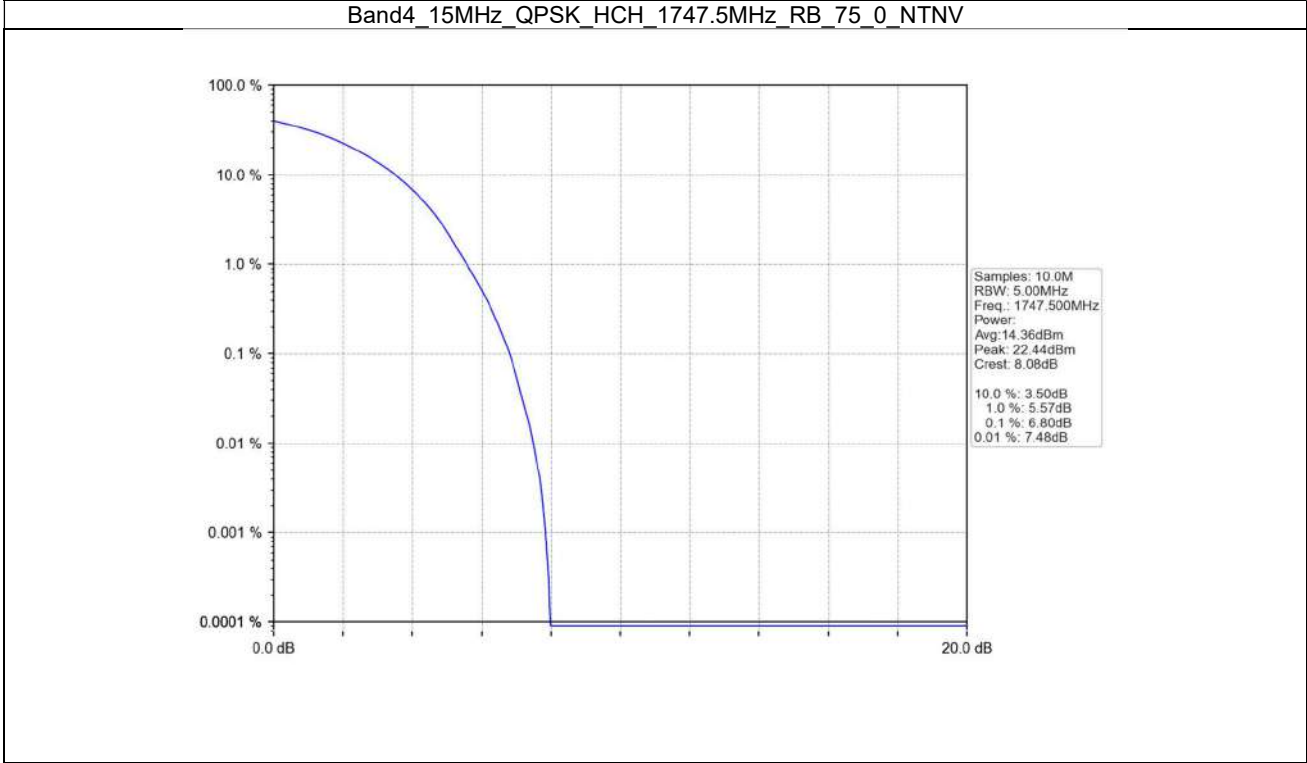


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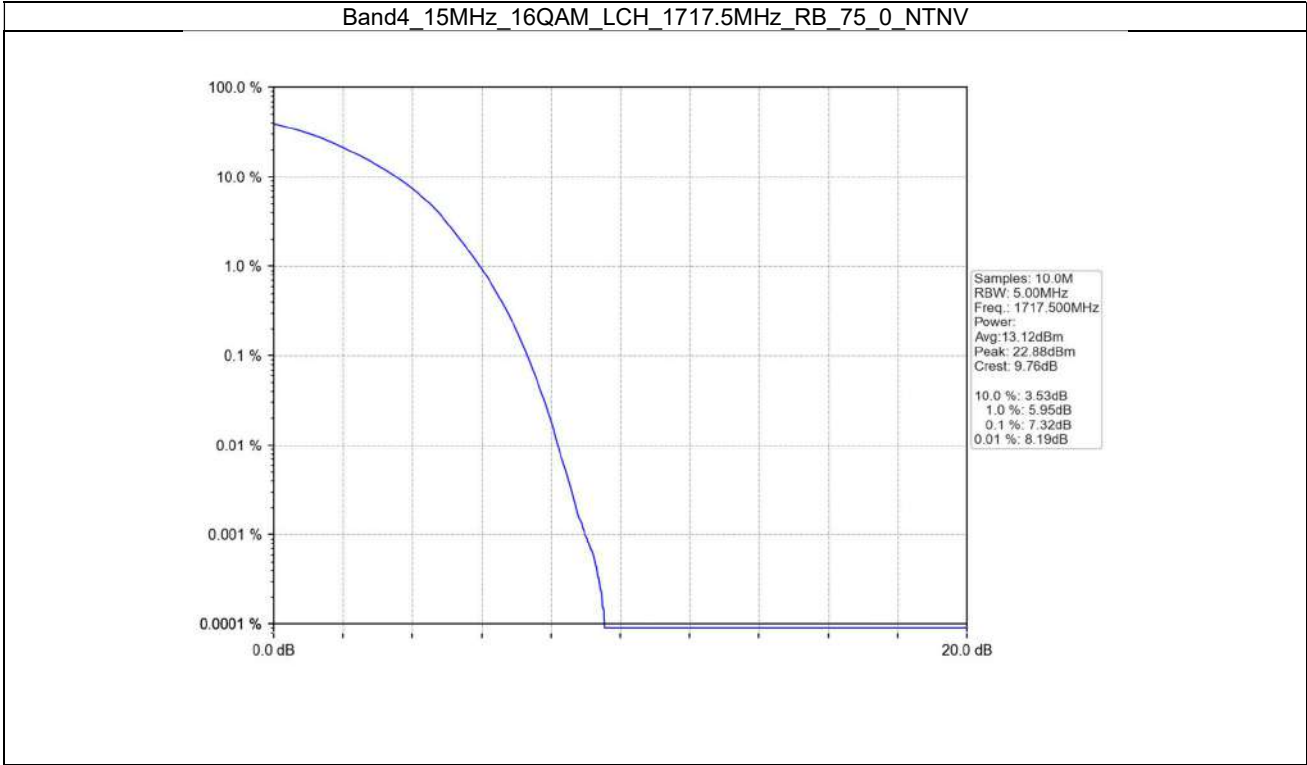
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



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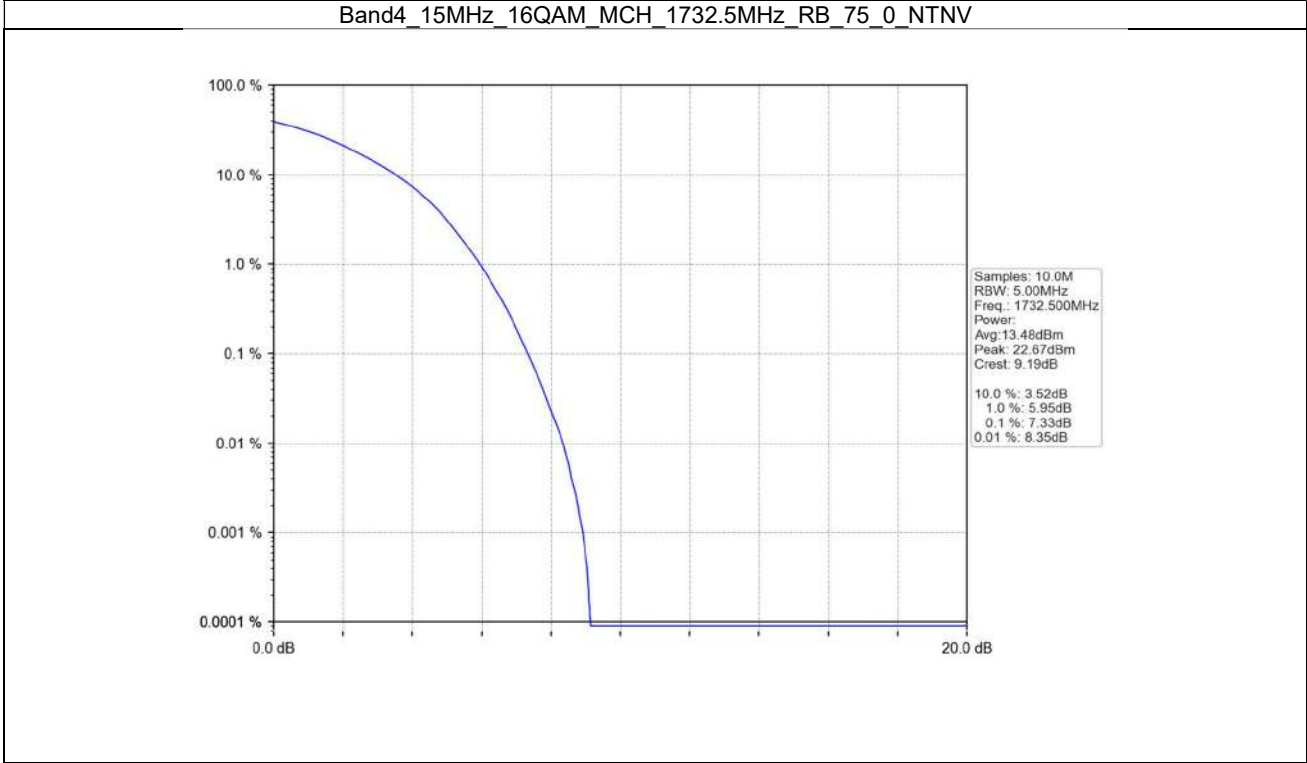


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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

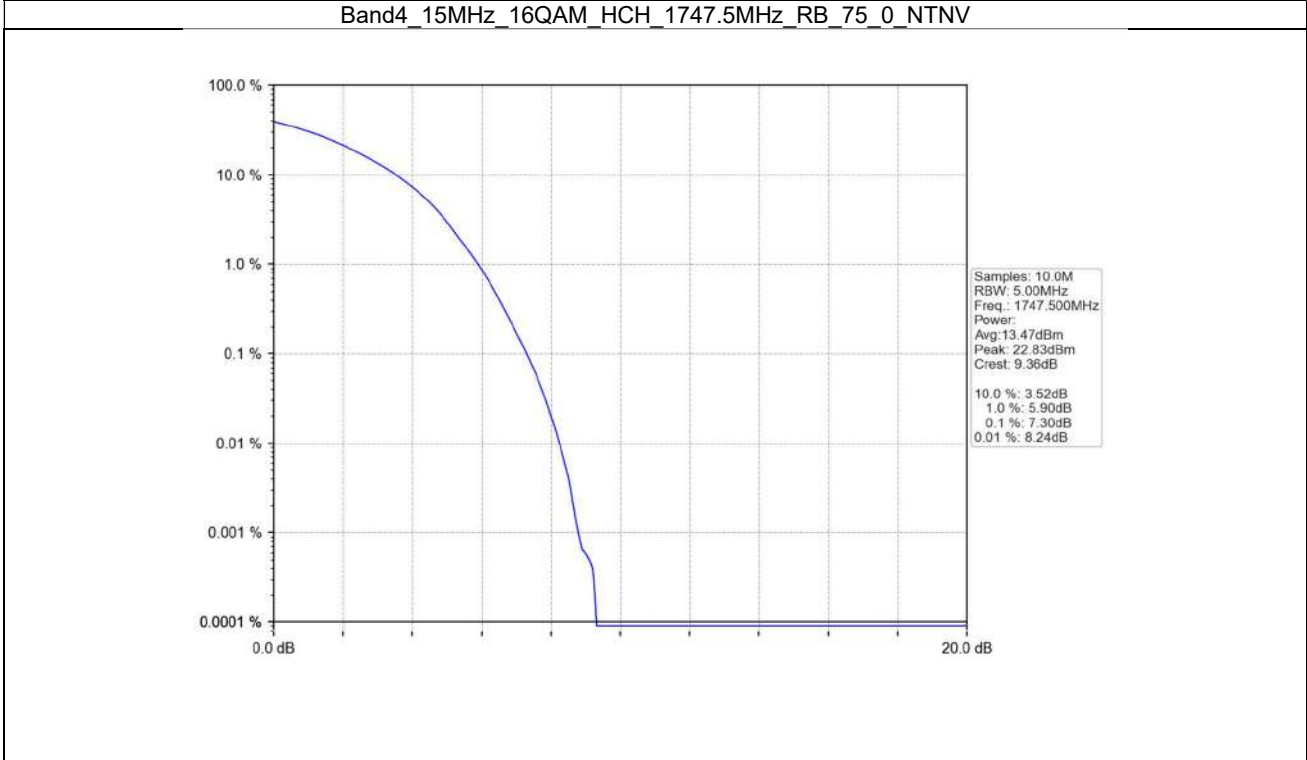


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5.6 B4_20MHz

5.6.1 Test Result

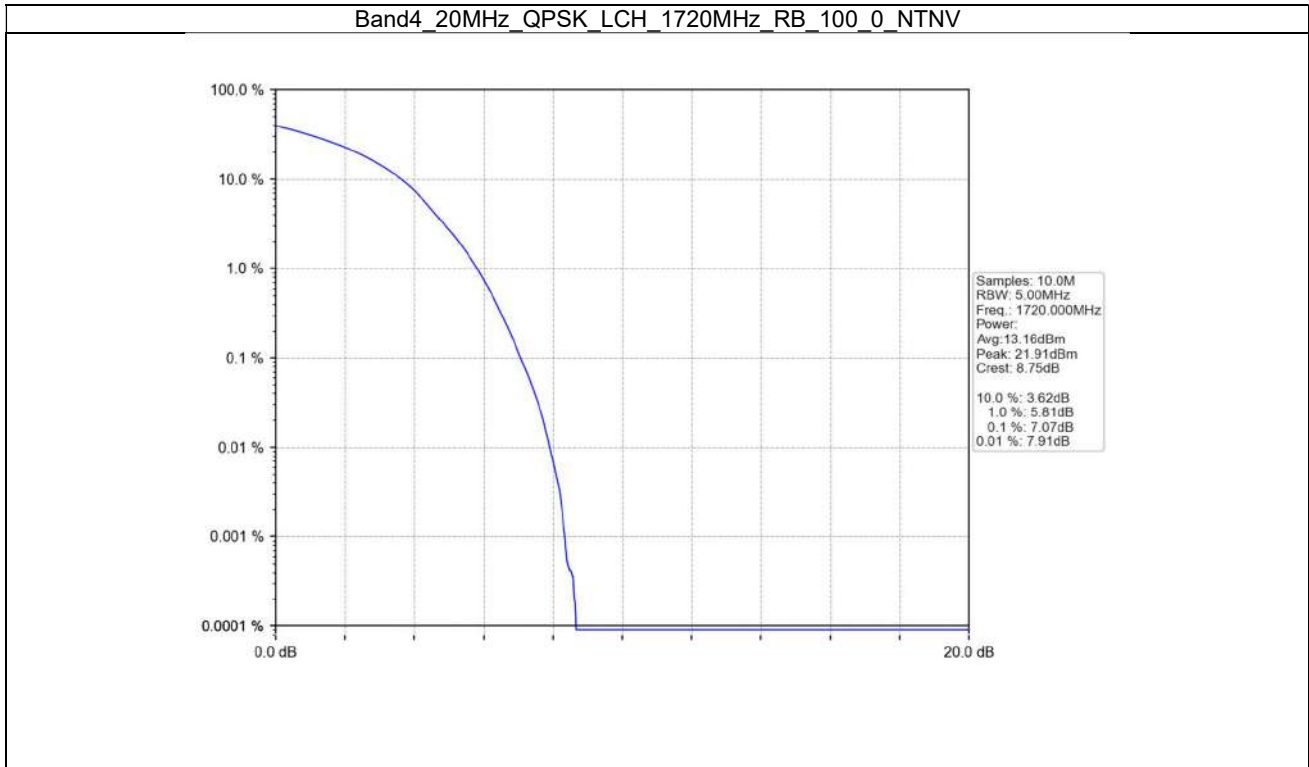
Band: 4 / Bandwidth: 20MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	7.07	<=13	Pass
	1732.5	100	0	7.19	<=13	Pass
	1745	100	0	7.18	<=13	Pass
16QAM	1720	100	0	7.47	<=13	Pass
	1732.5	100	0	7.55	<=13	Pass
	1745	100	0	7.58	<=13	Pass



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5.6.2 Test Graph



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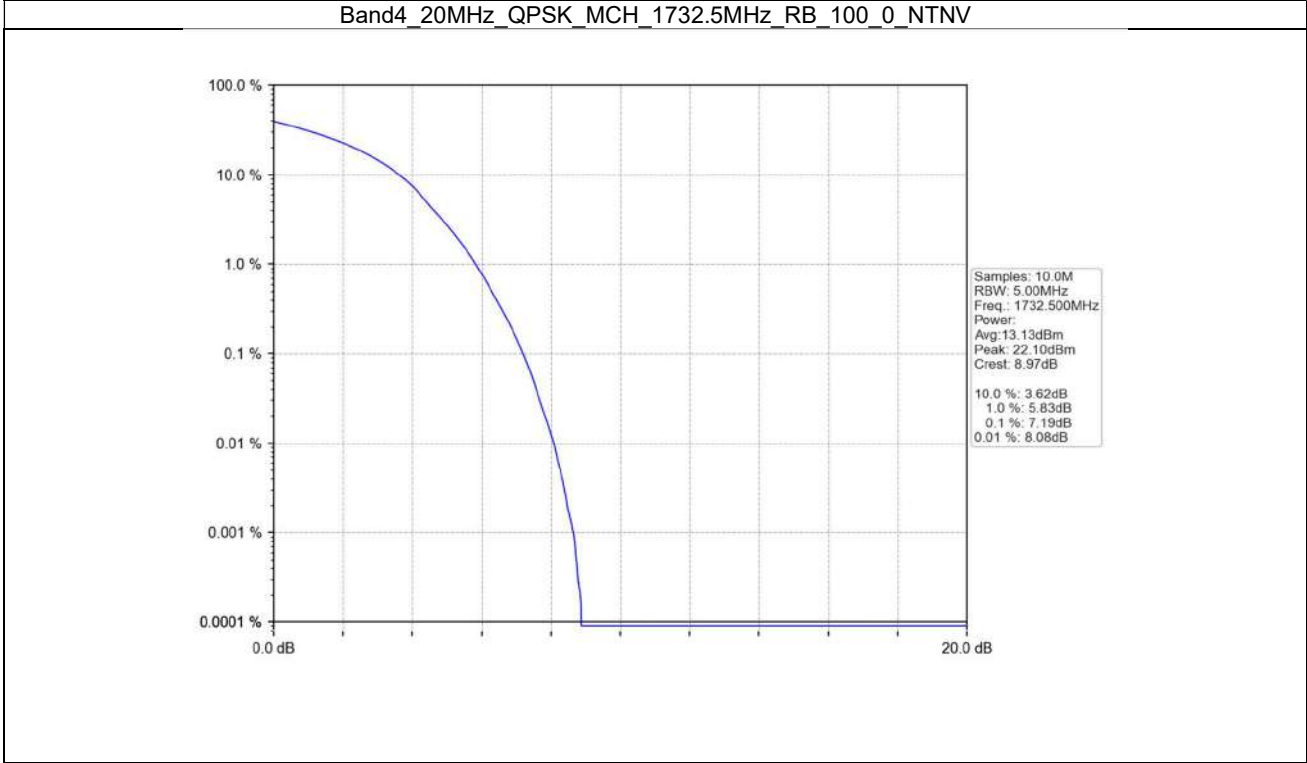
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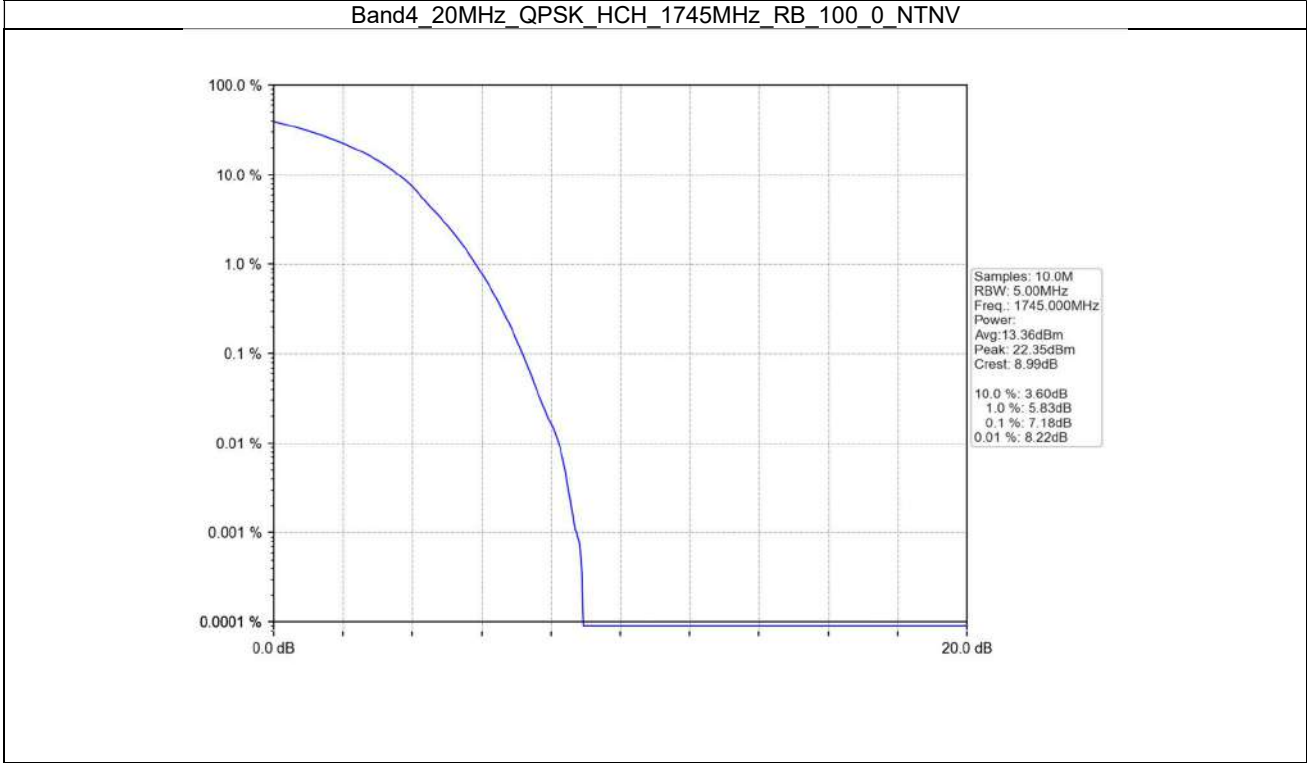


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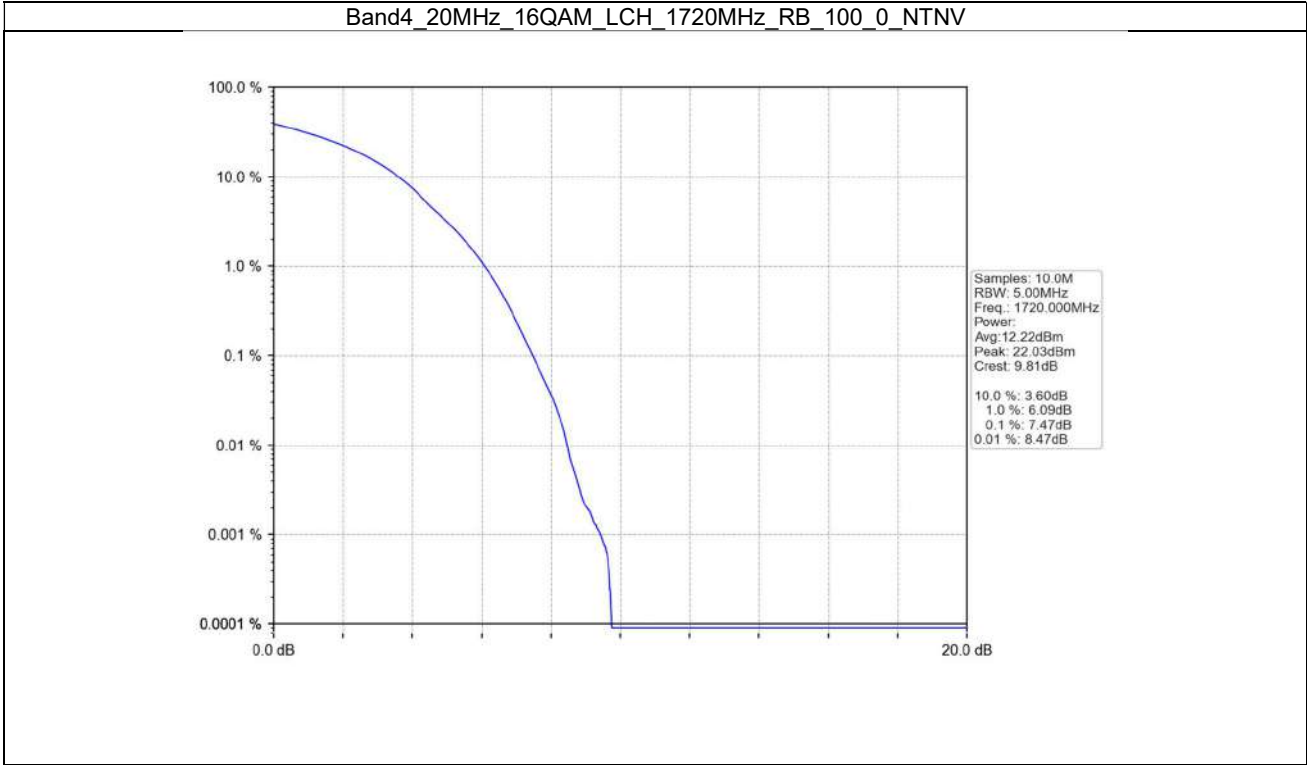
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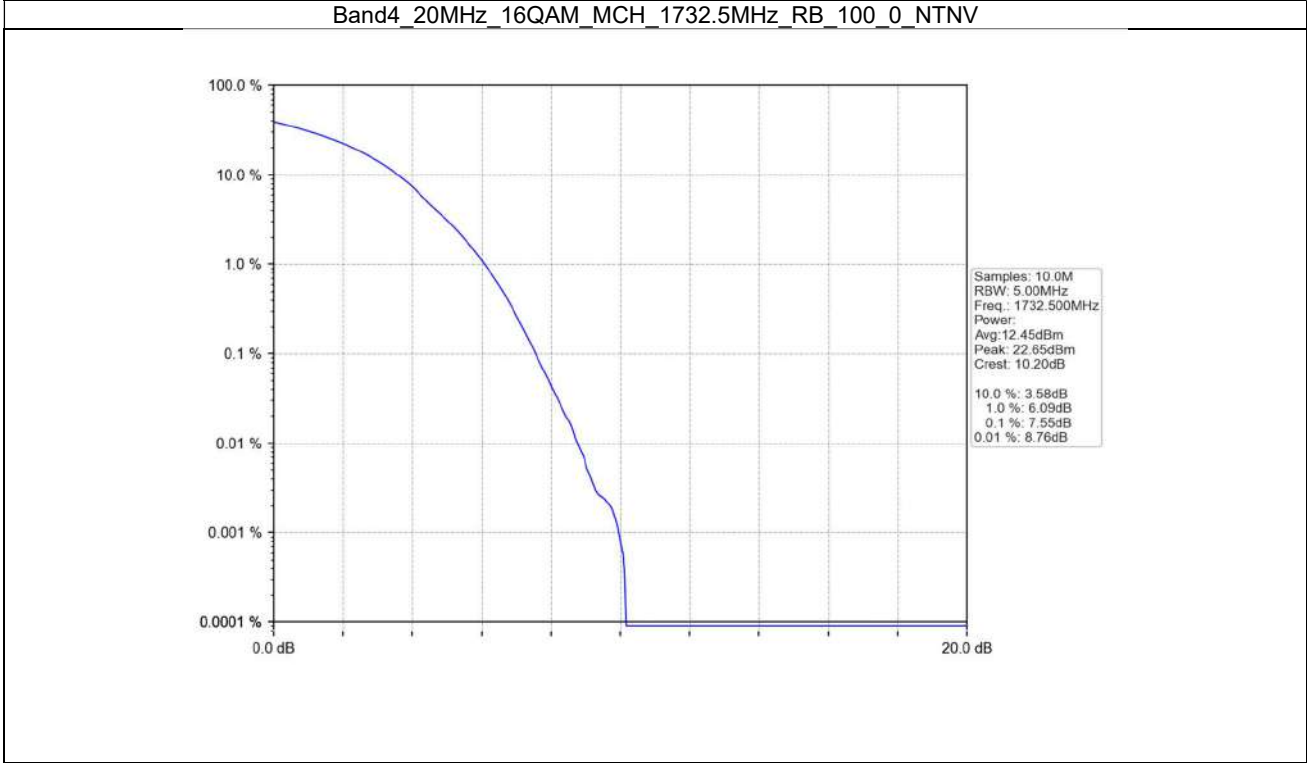


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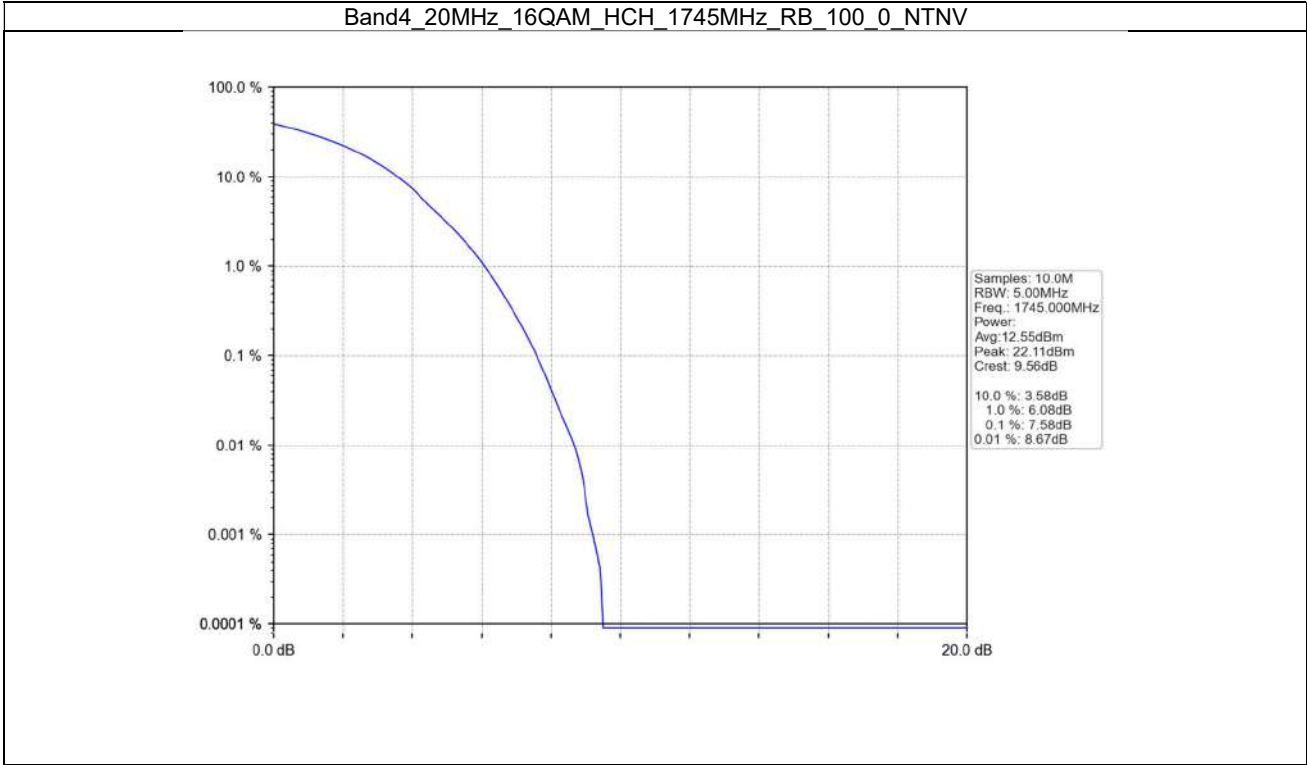
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6. Spurious Emission

6.1 B4_1.4MHz

6.1.1 Test Result

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



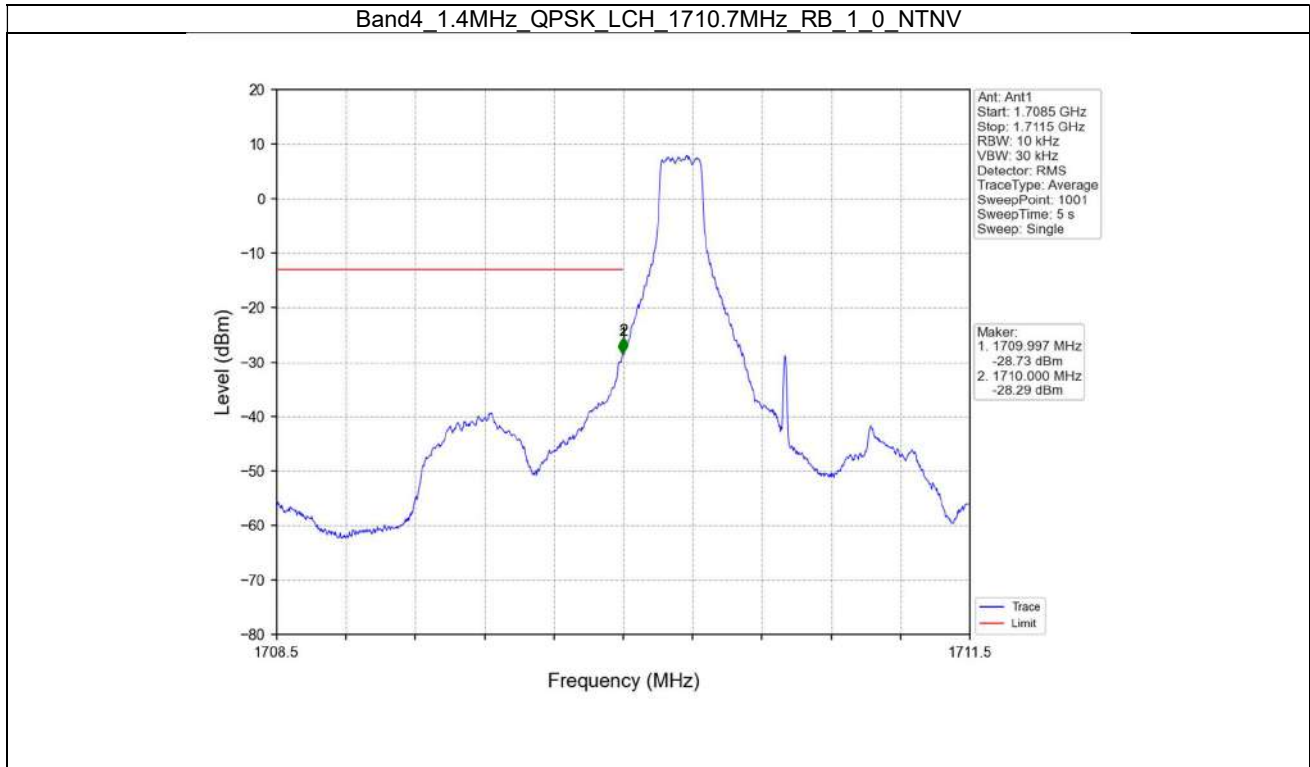
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6.1.2 Test Graph

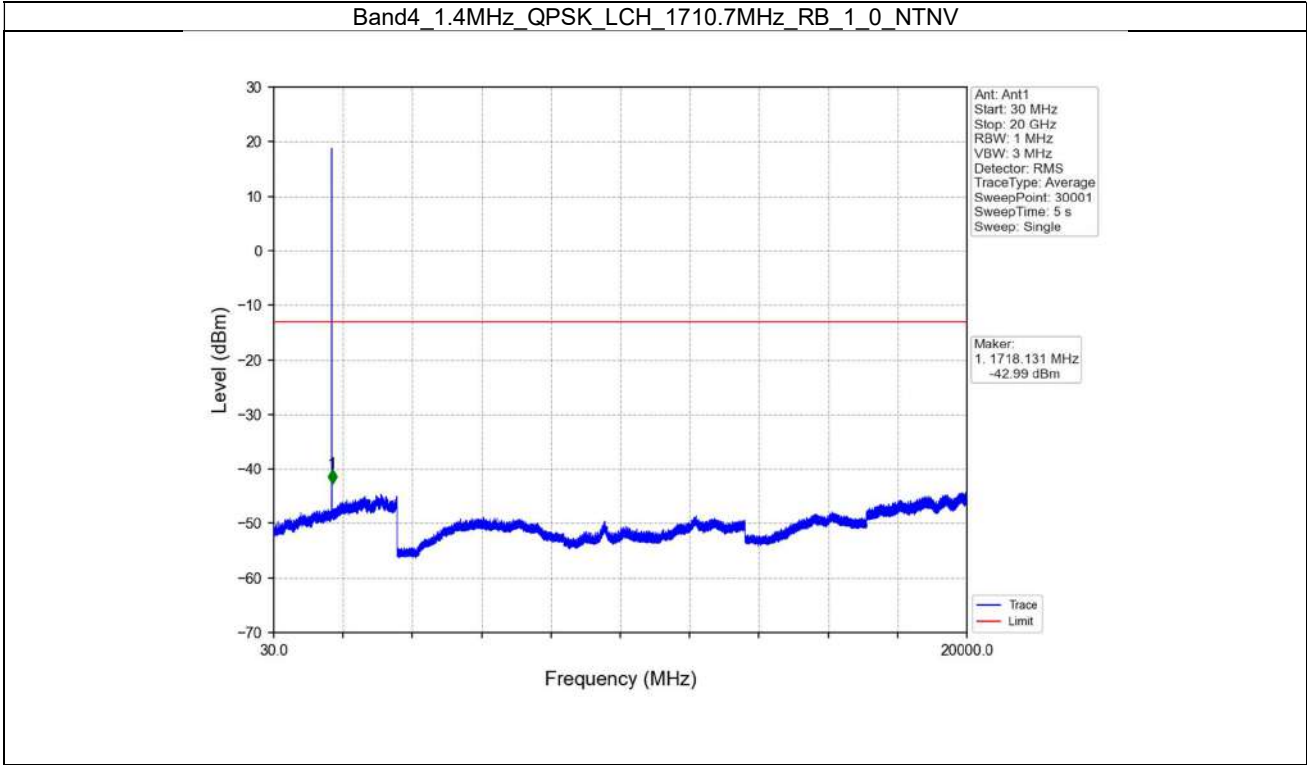


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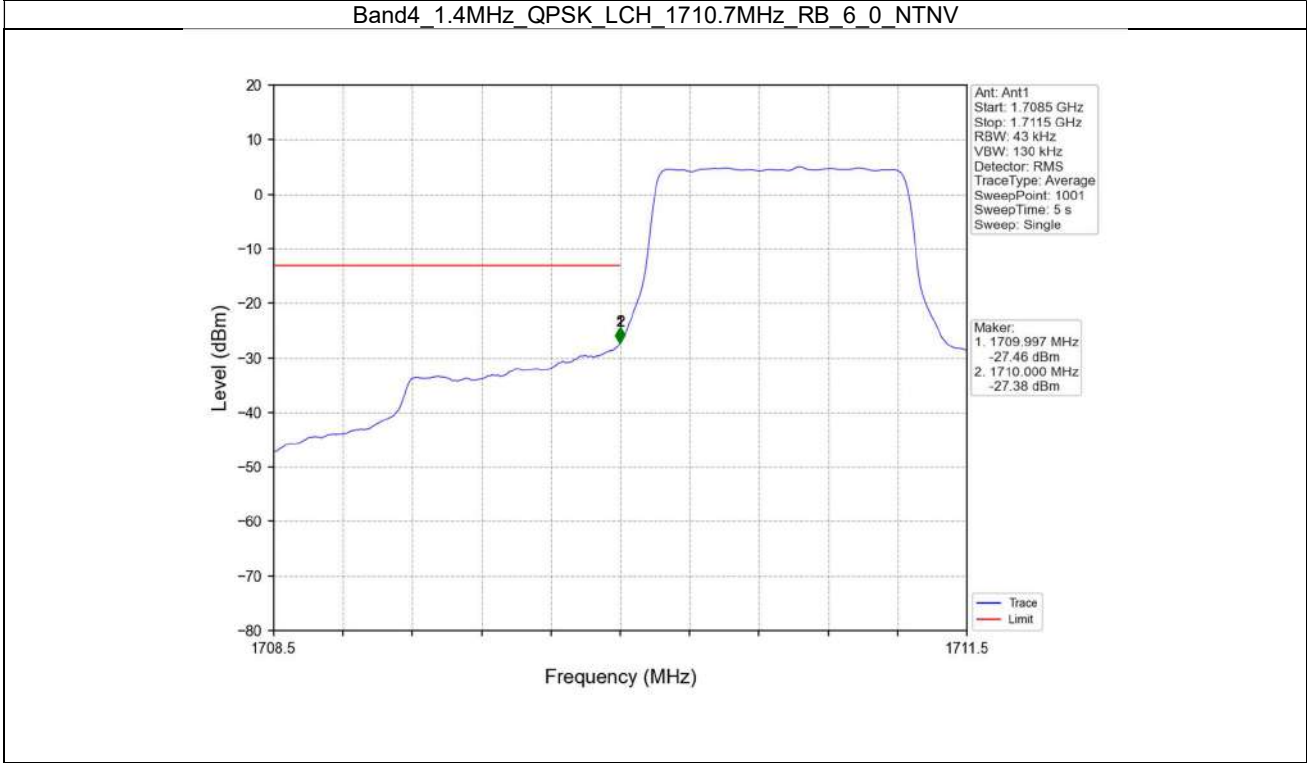


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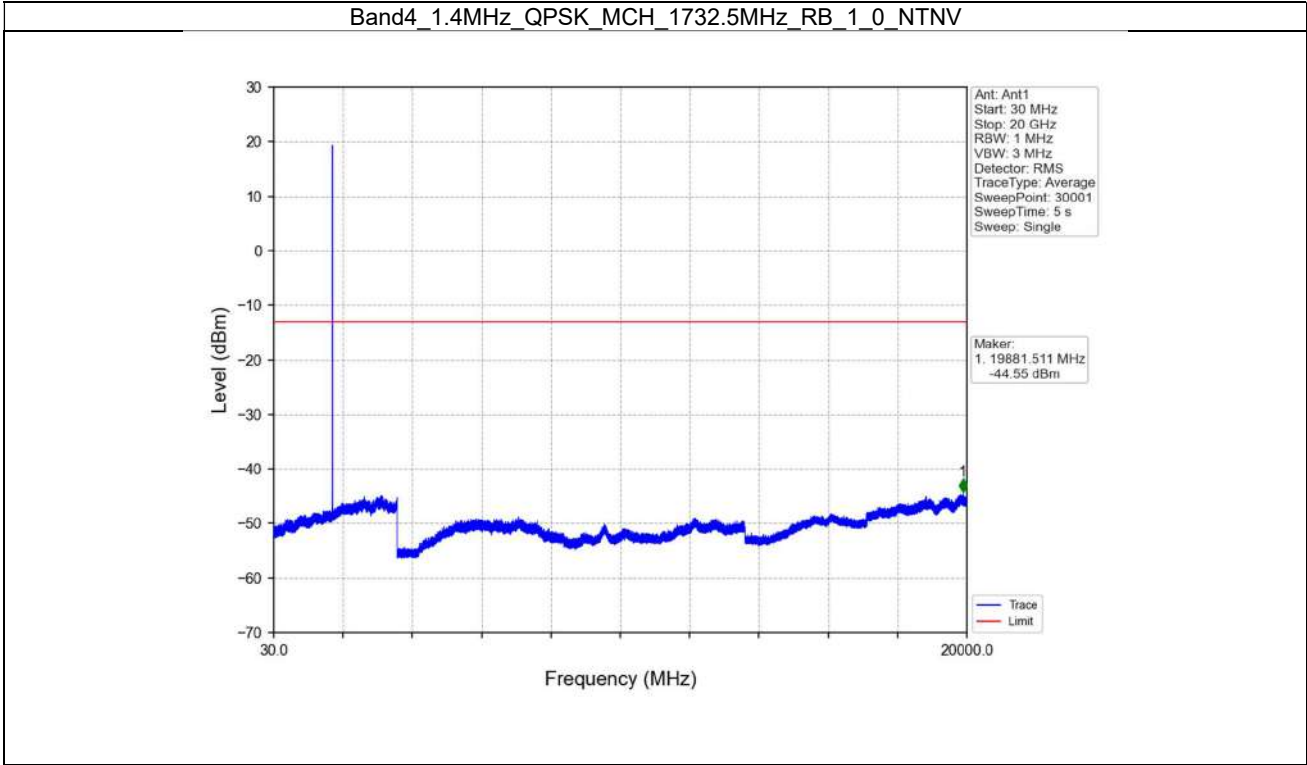
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



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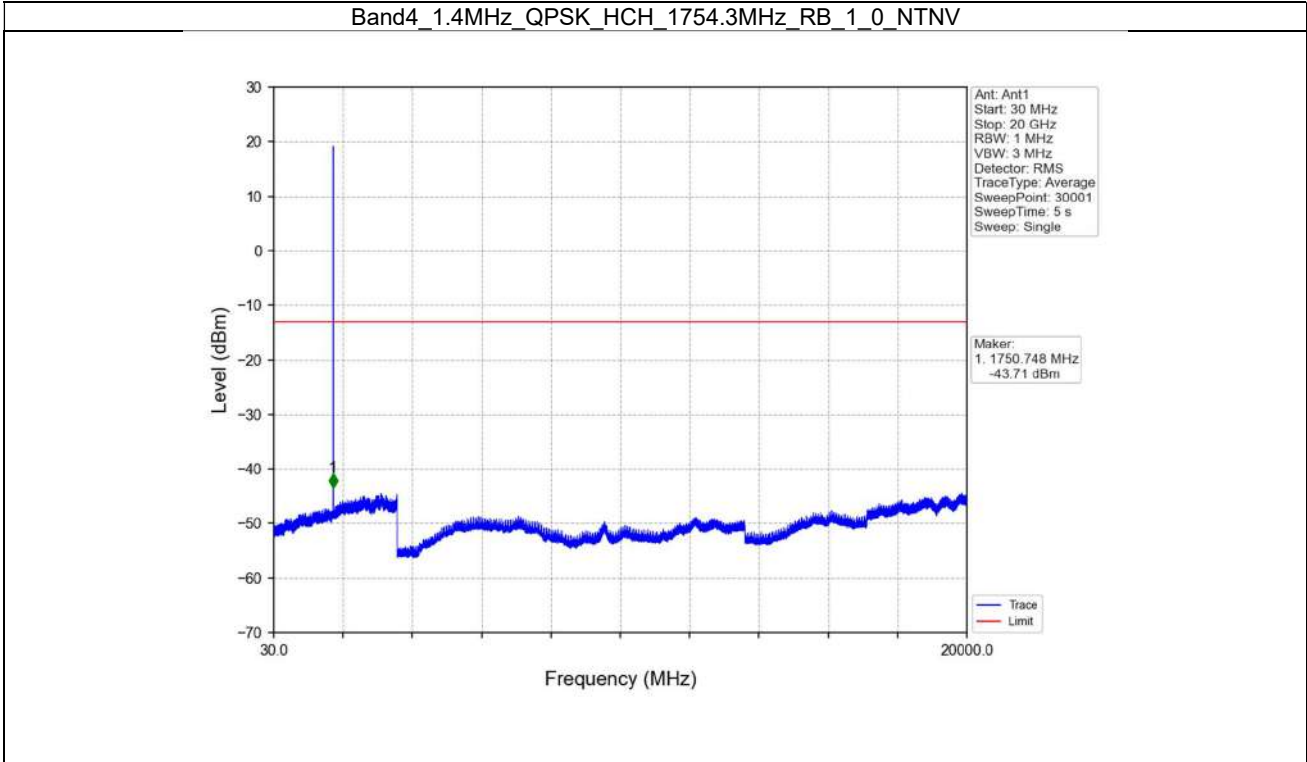
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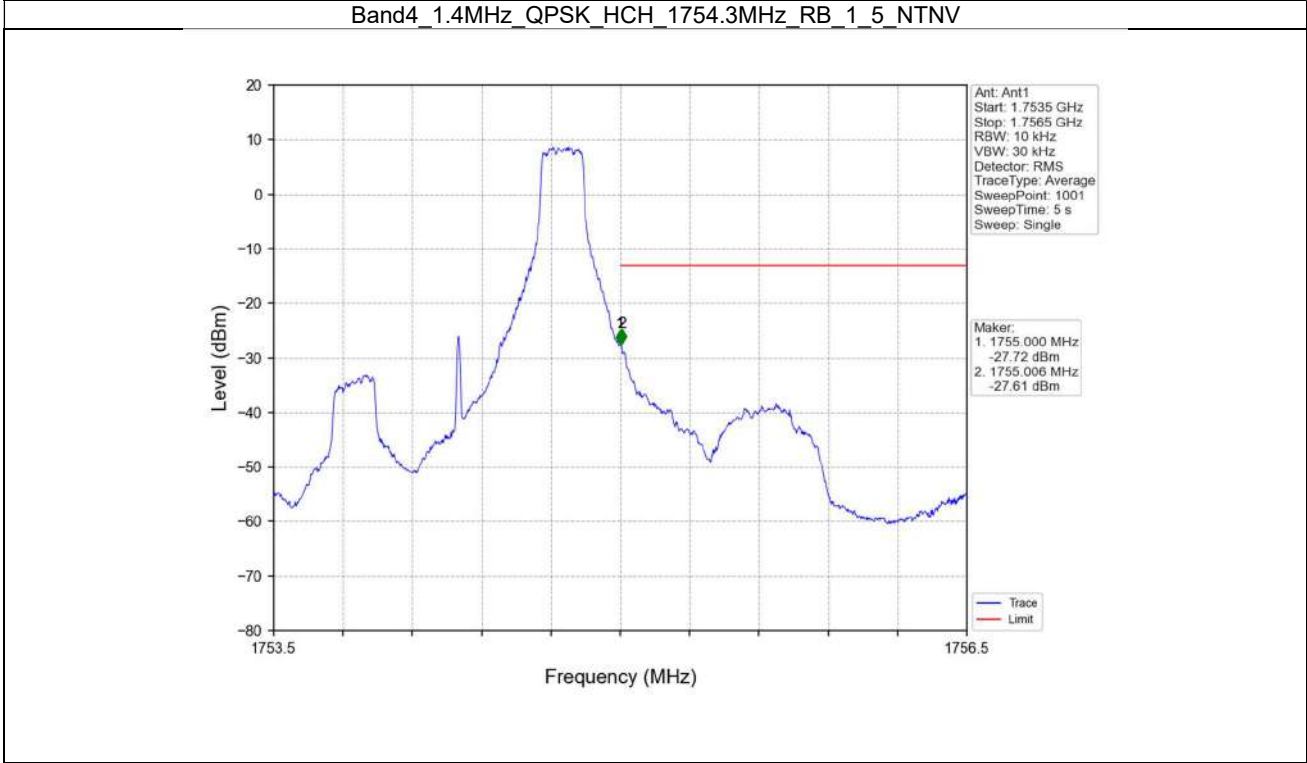


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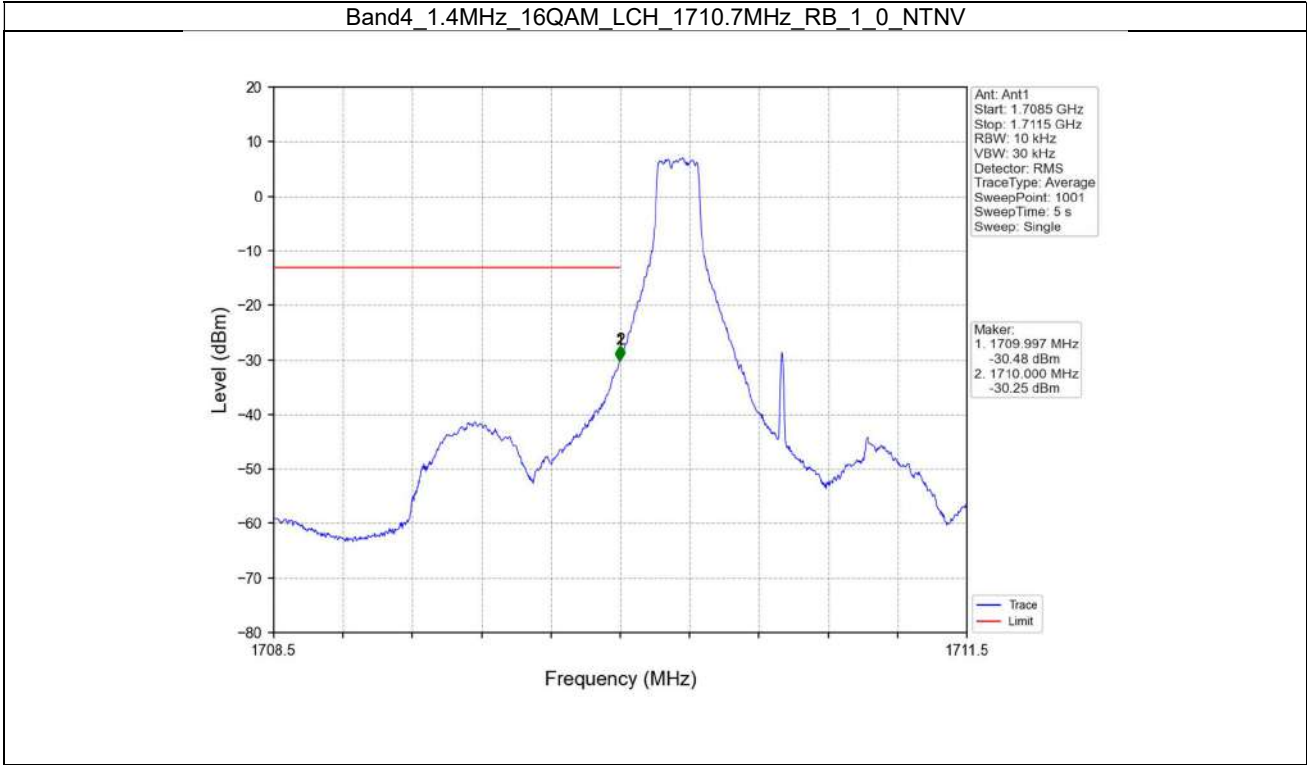
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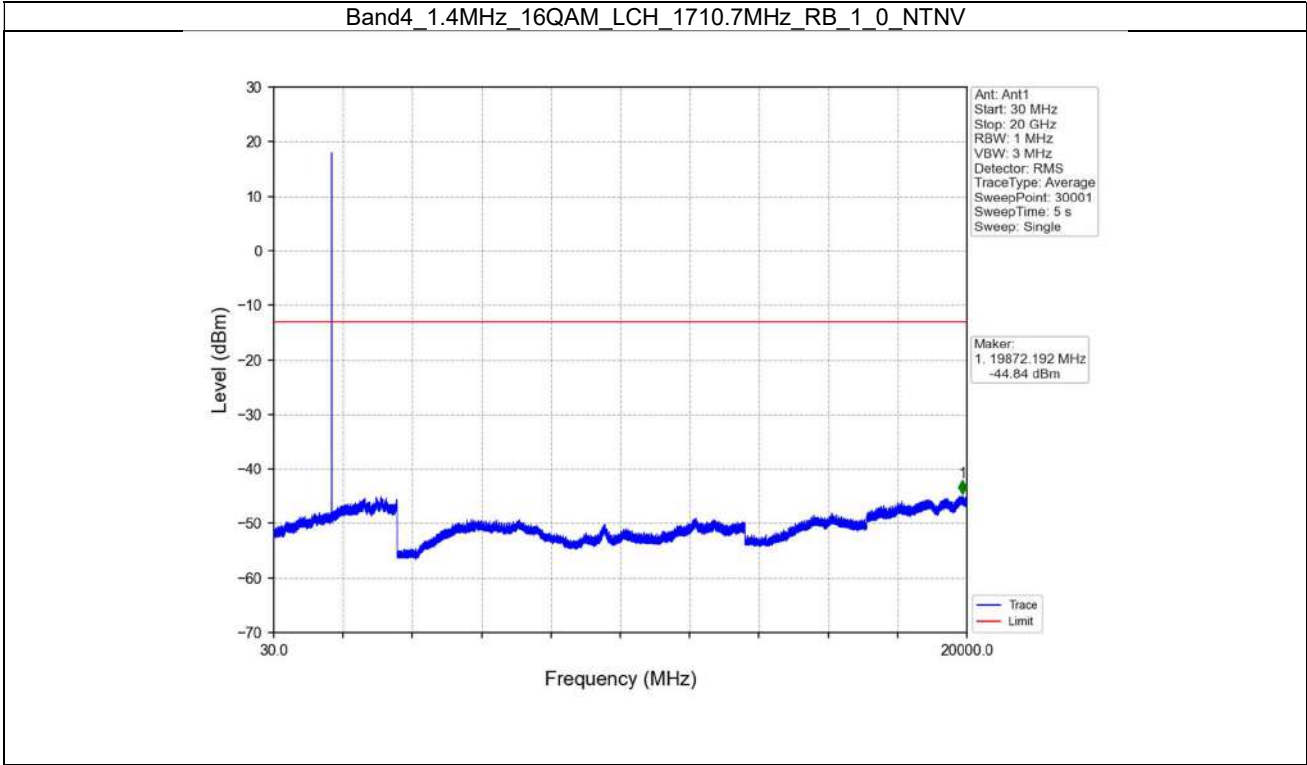
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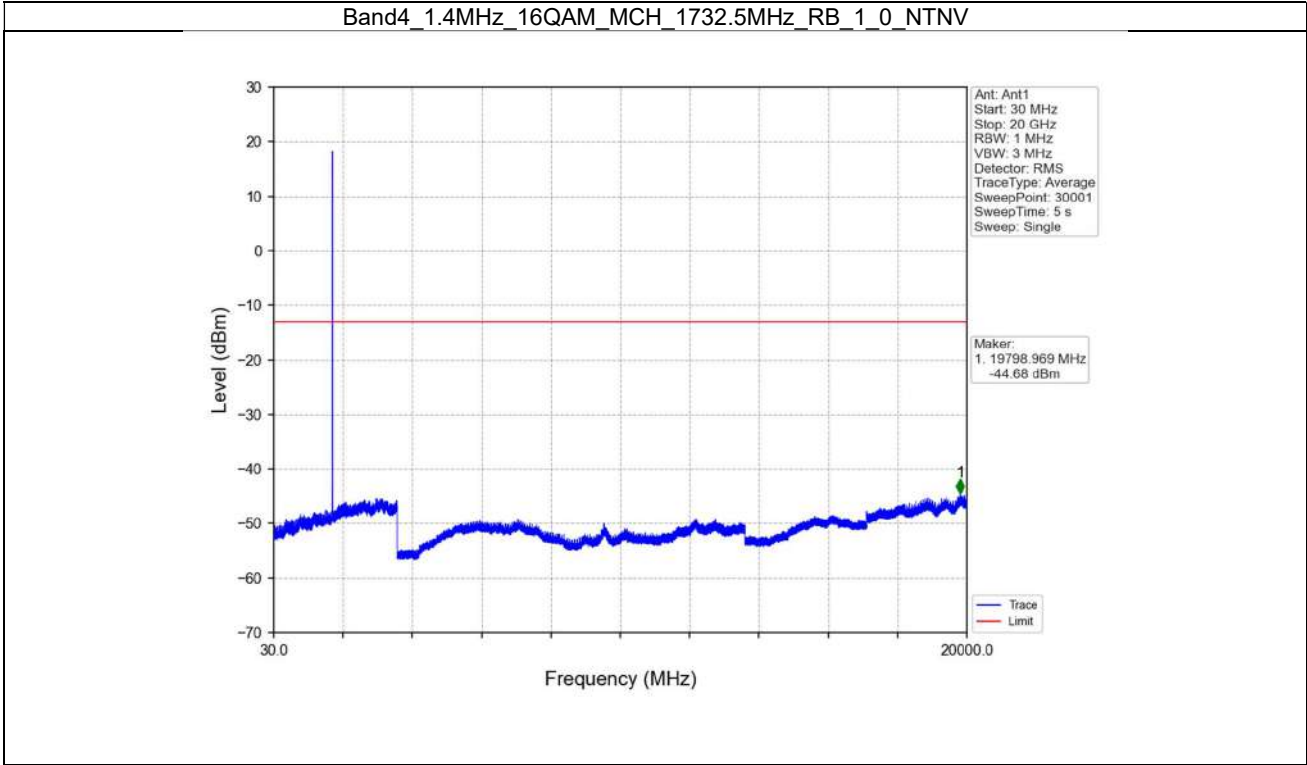
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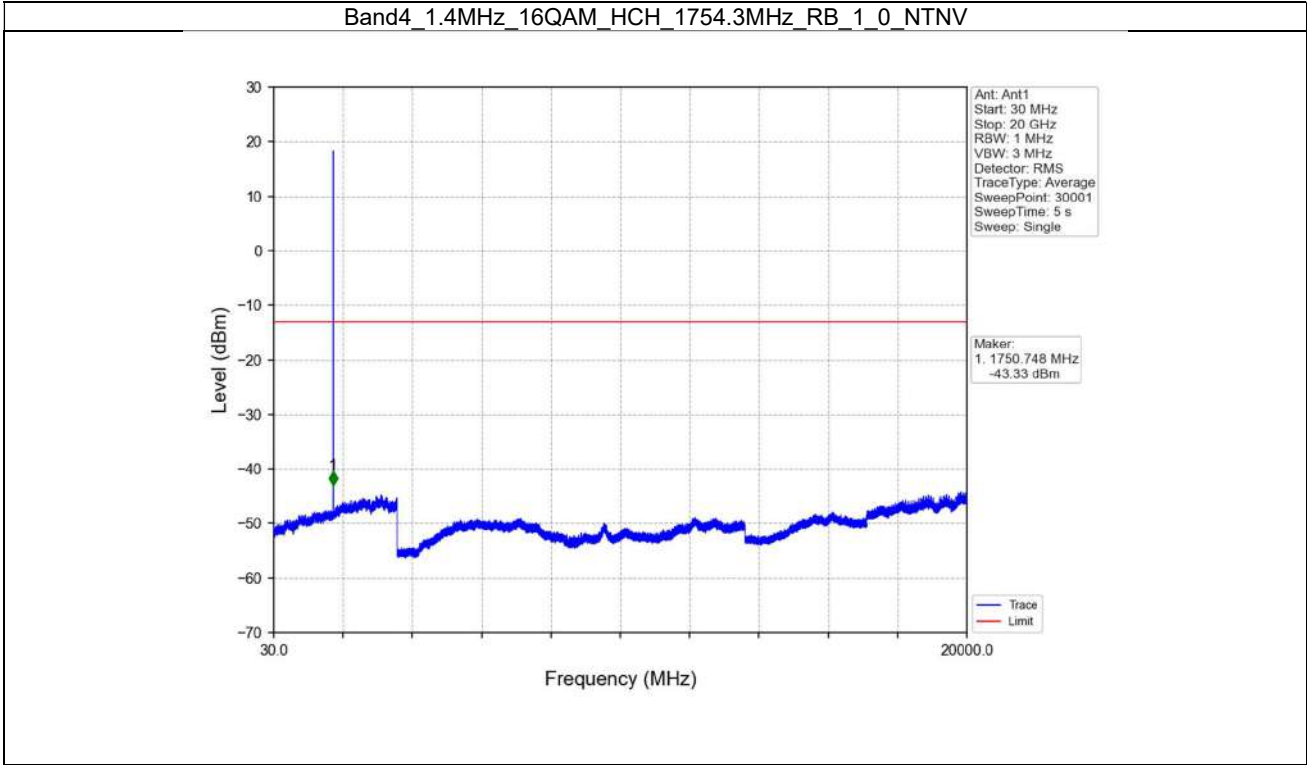
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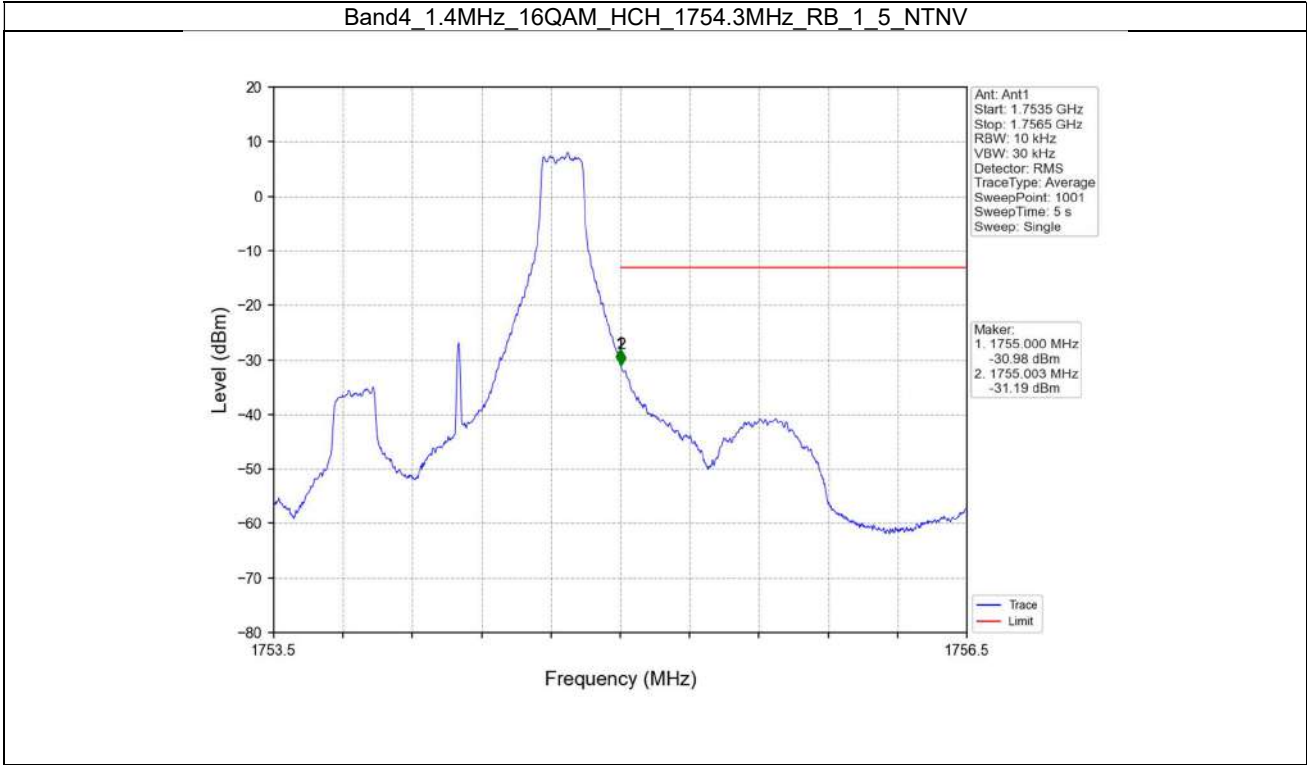


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6.2 B4_3MHz

6.2.1 Test Result

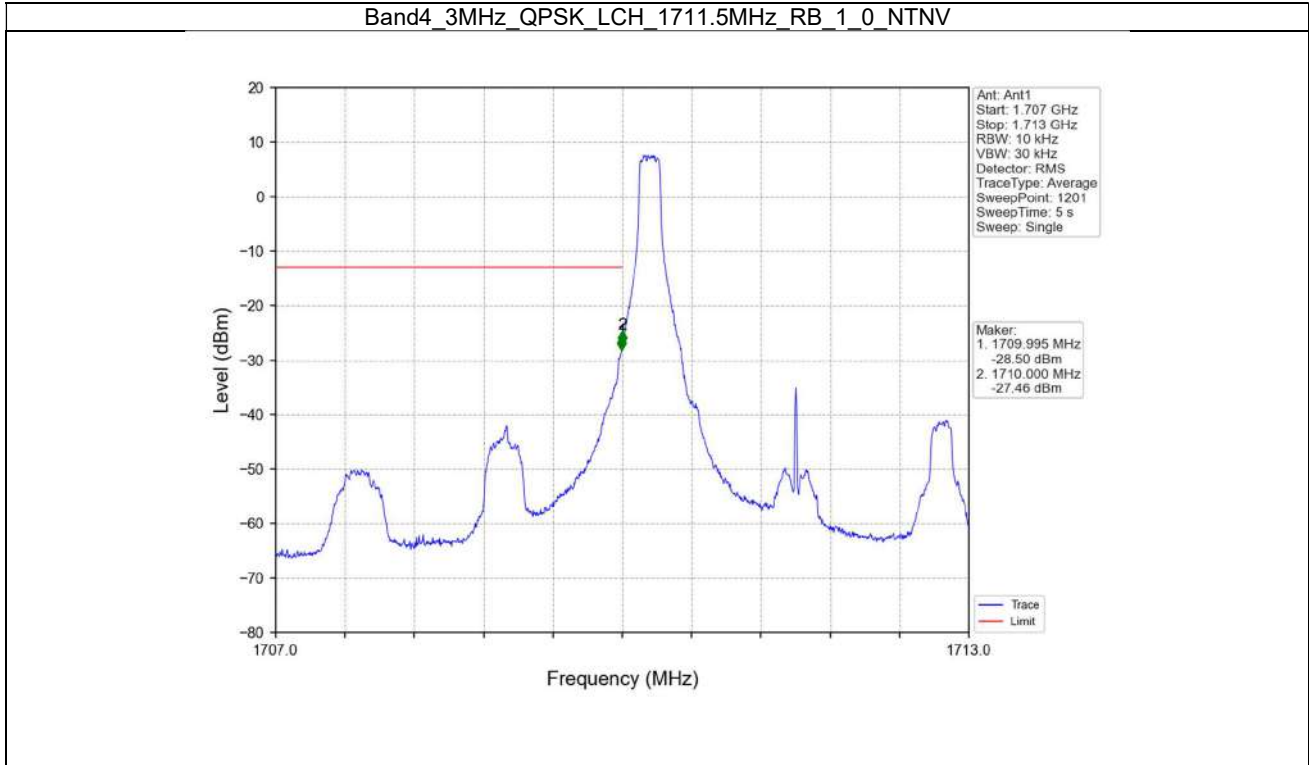
Band: 4 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			14	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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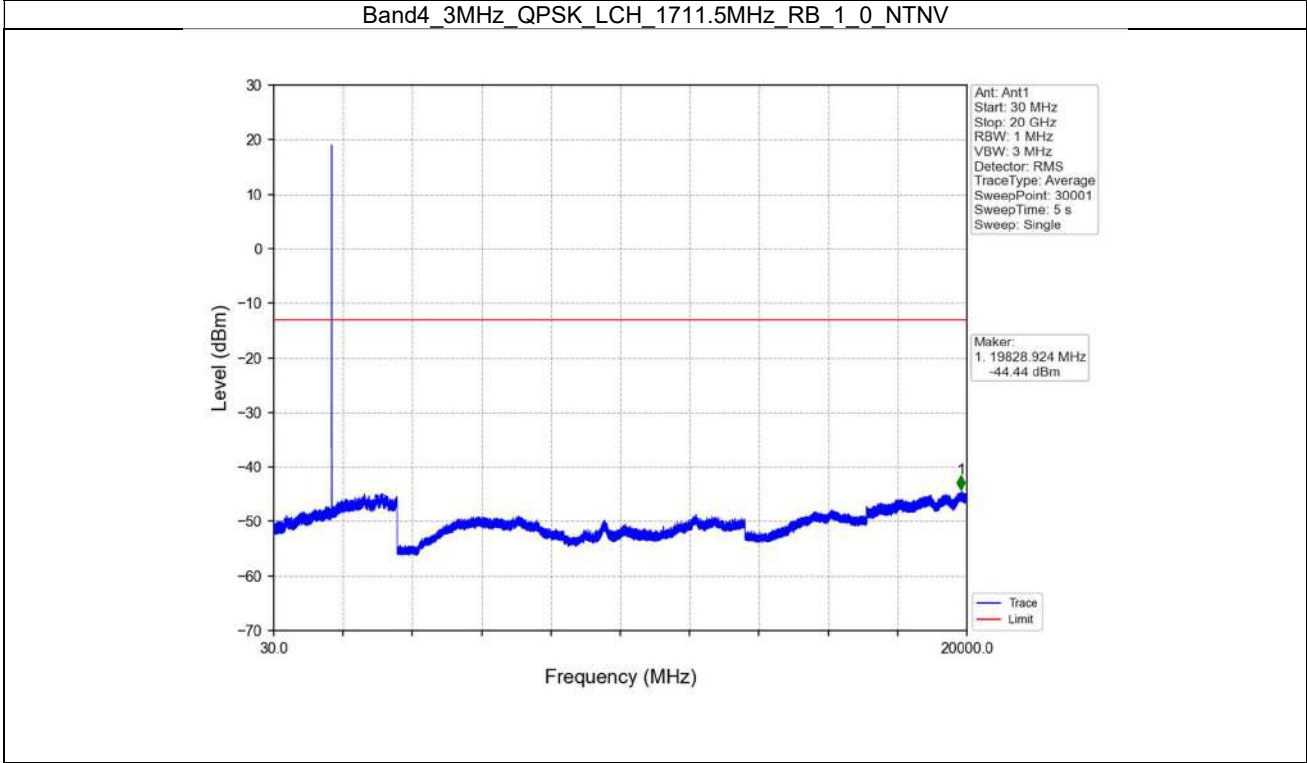
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Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

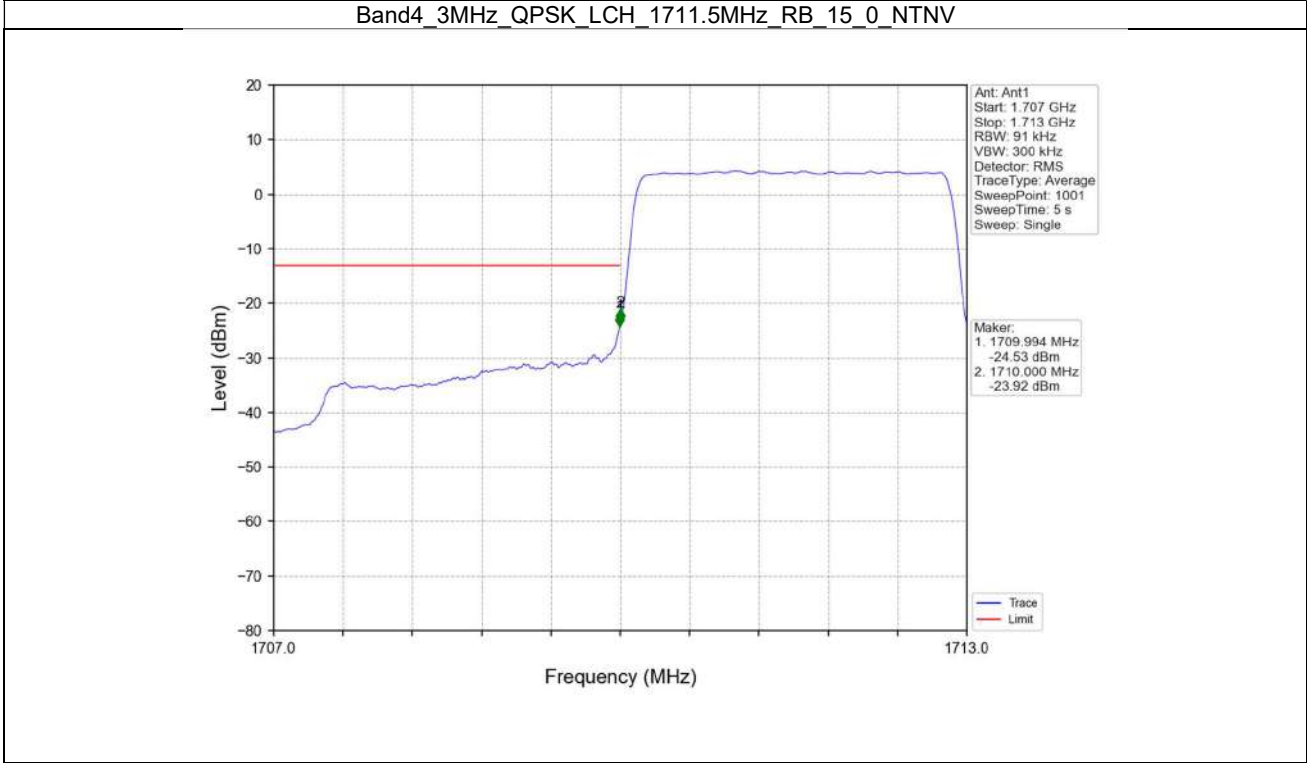


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Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

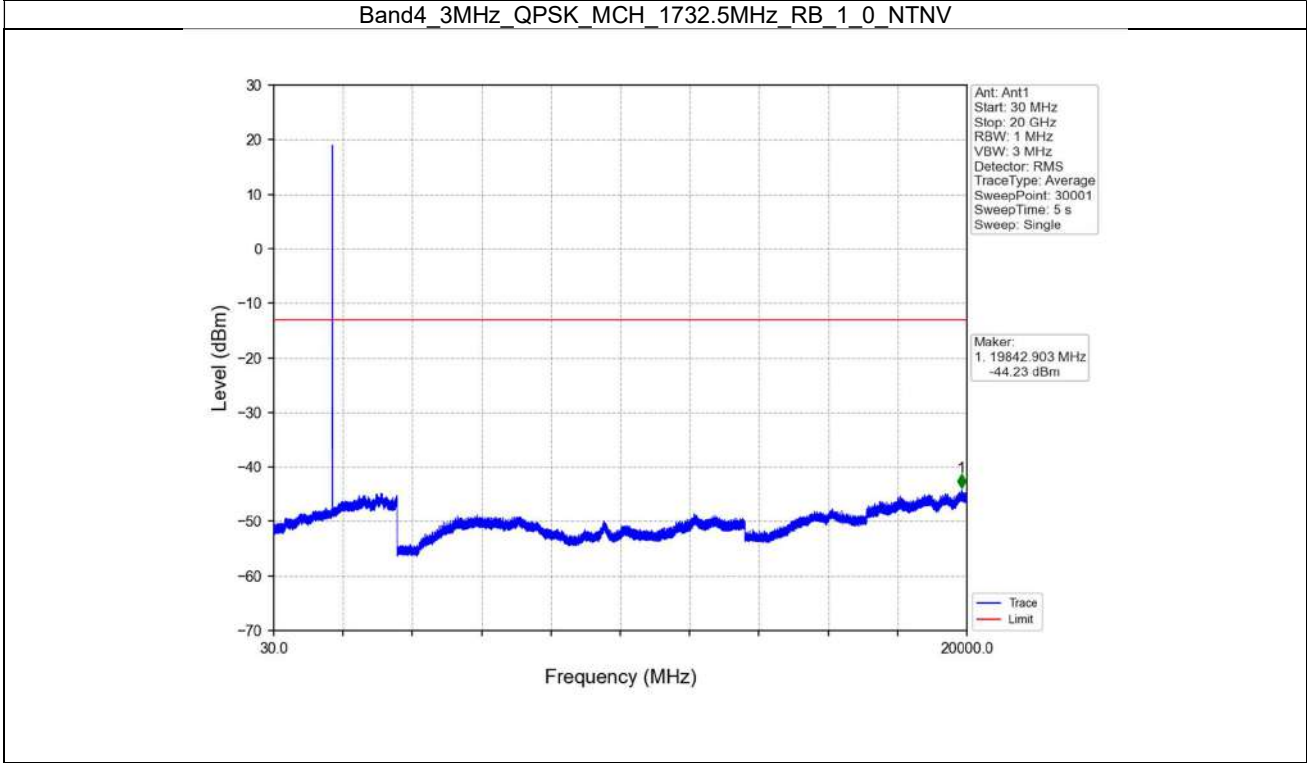


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Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



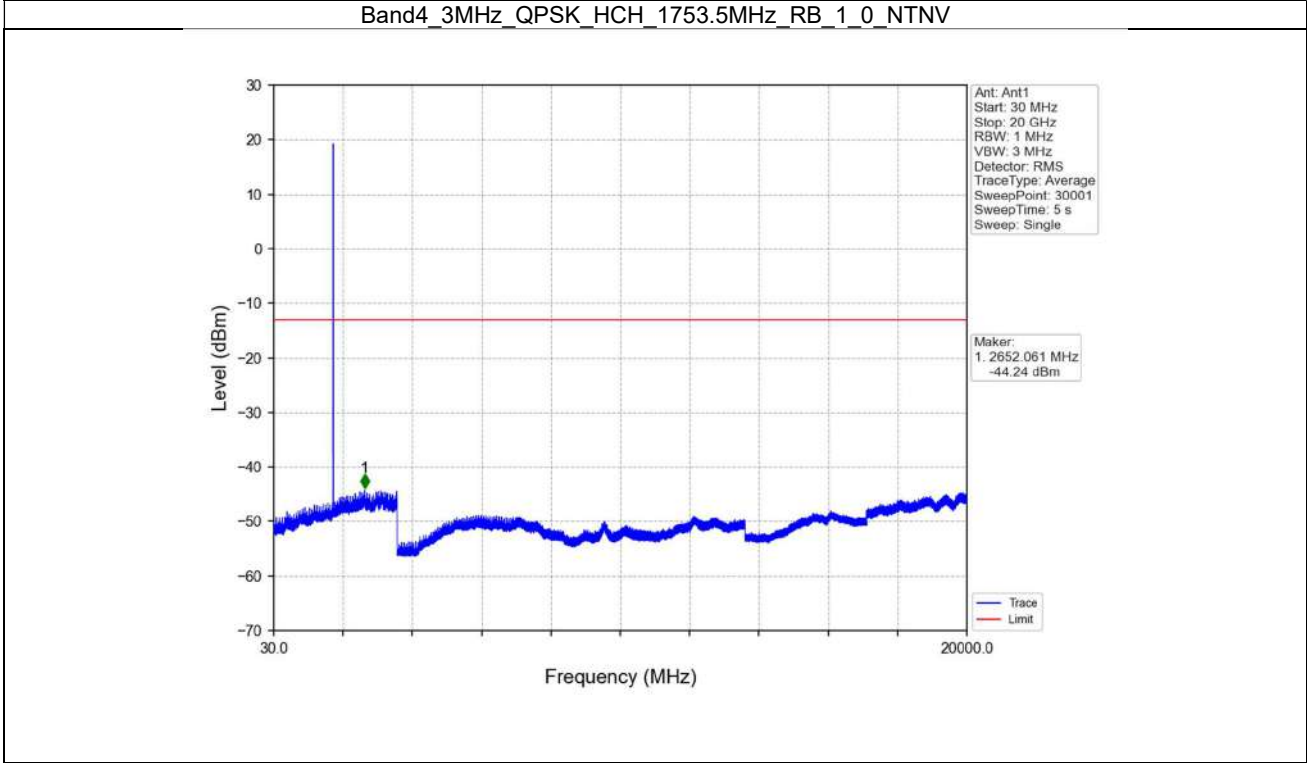
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



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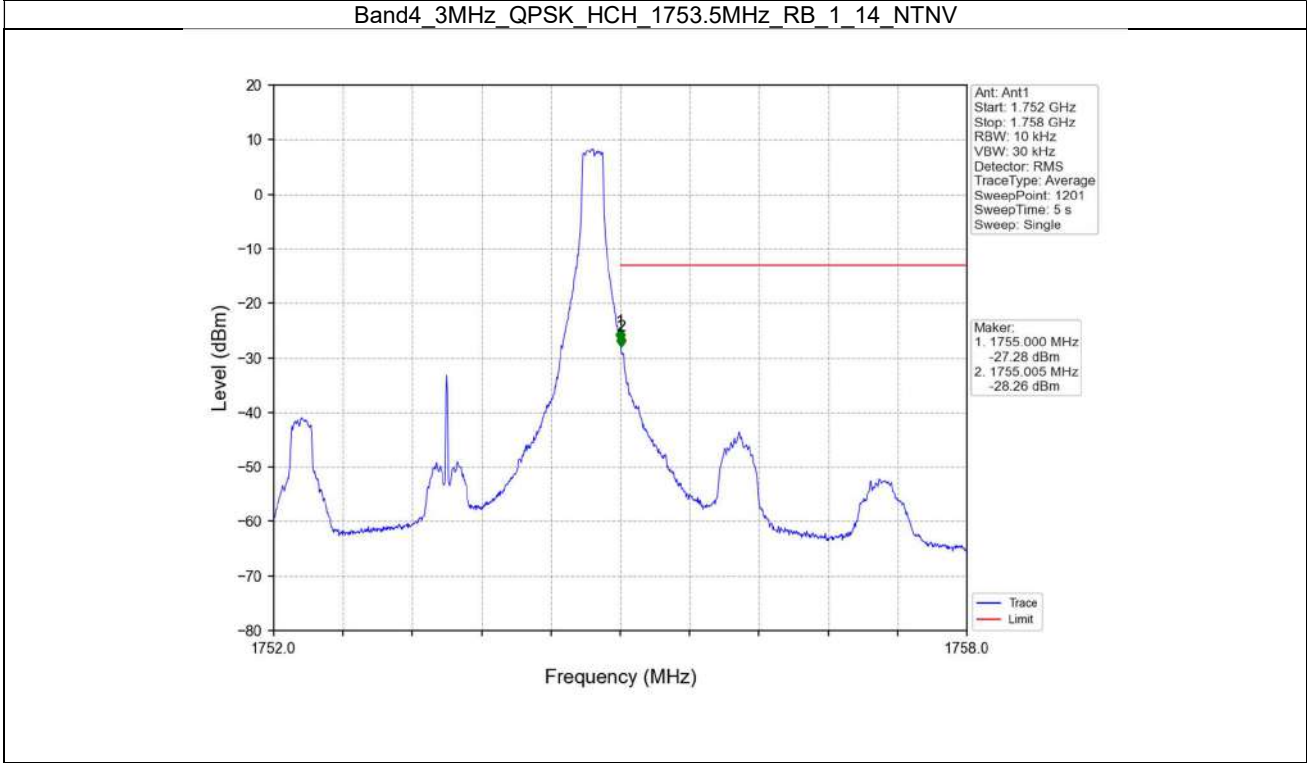
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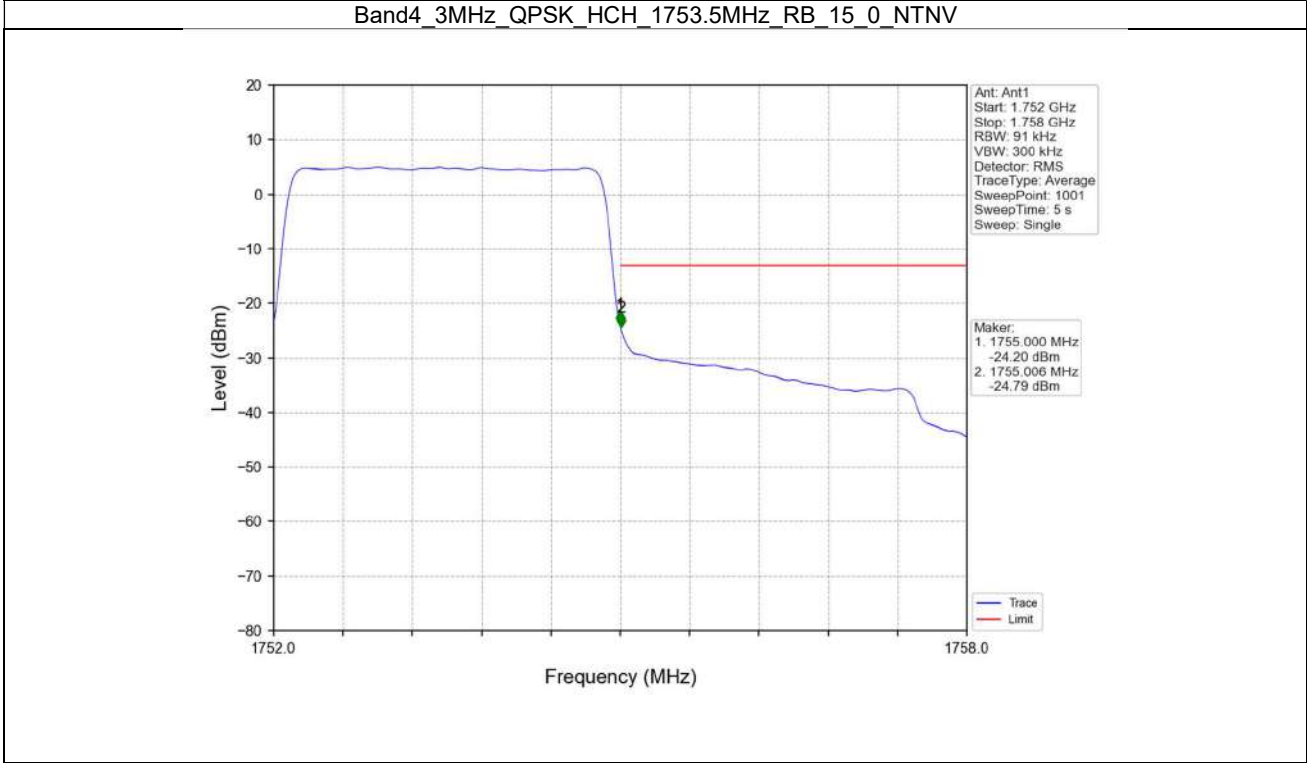


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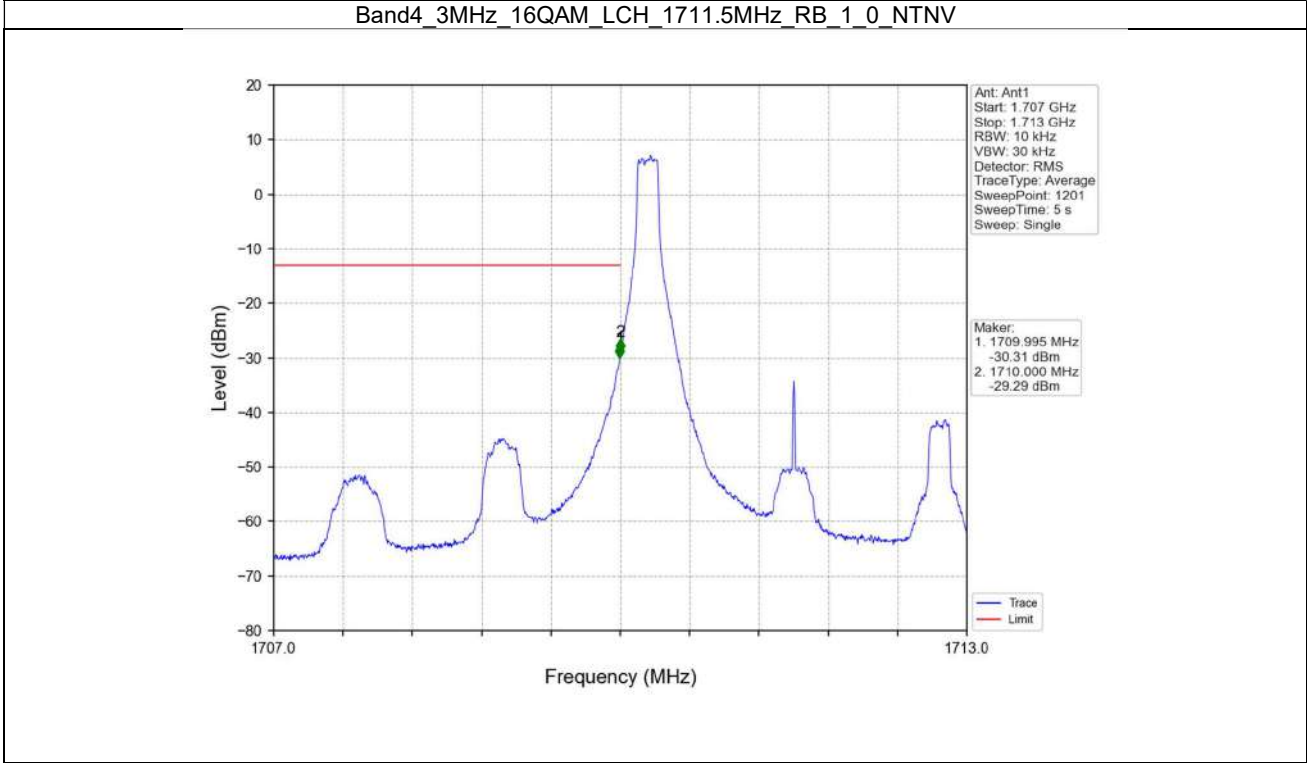


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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



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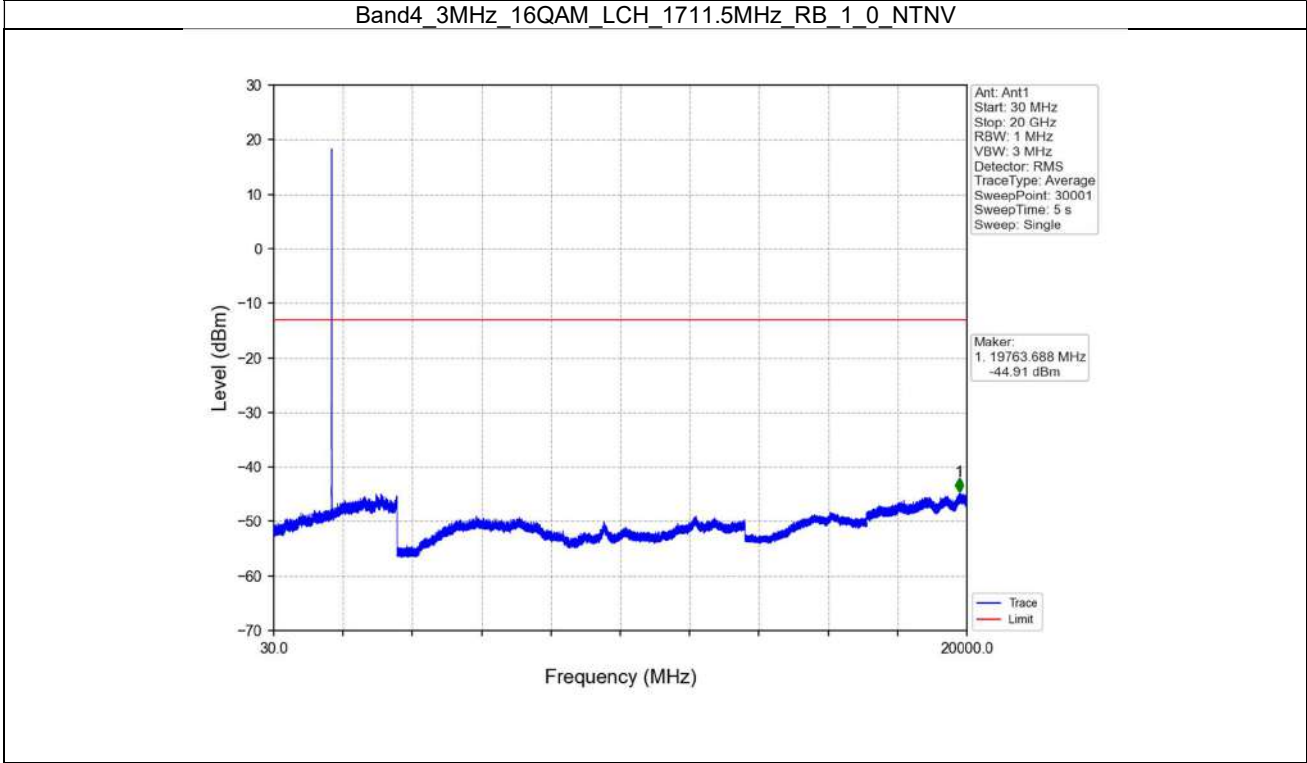
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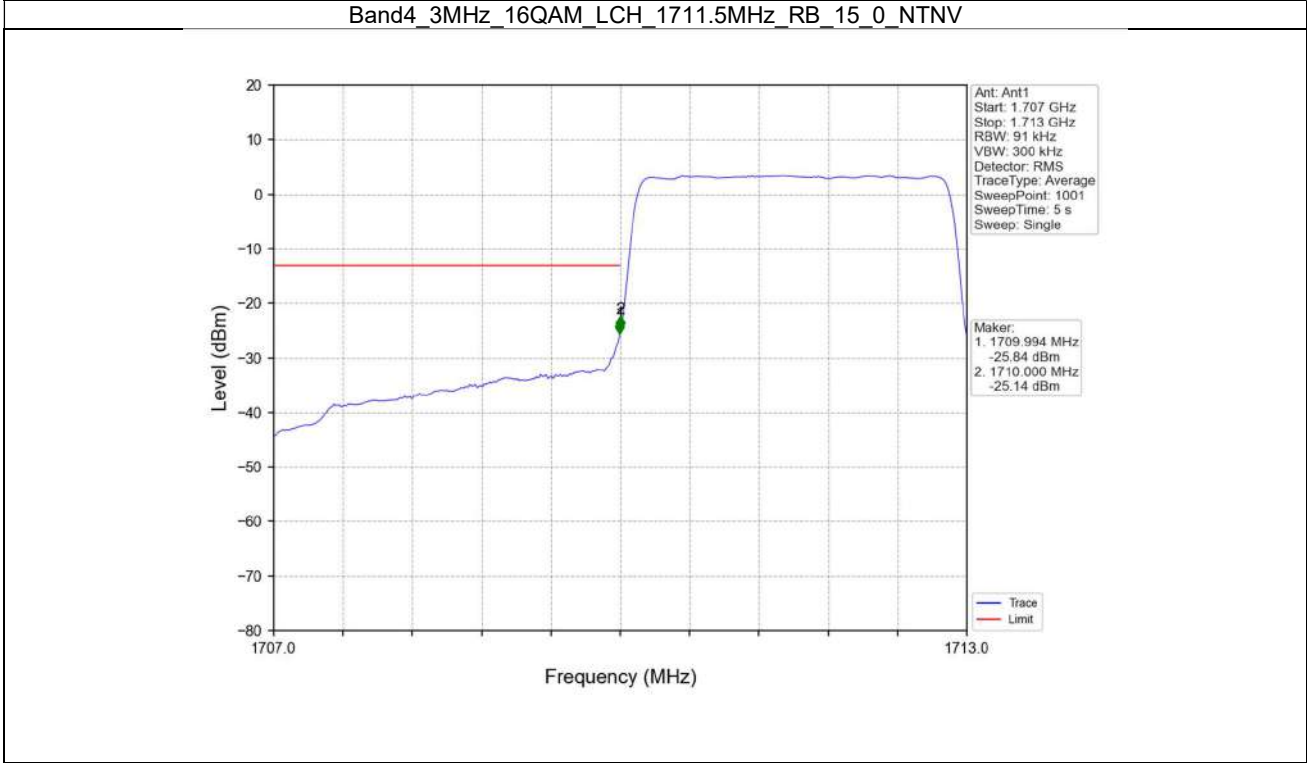


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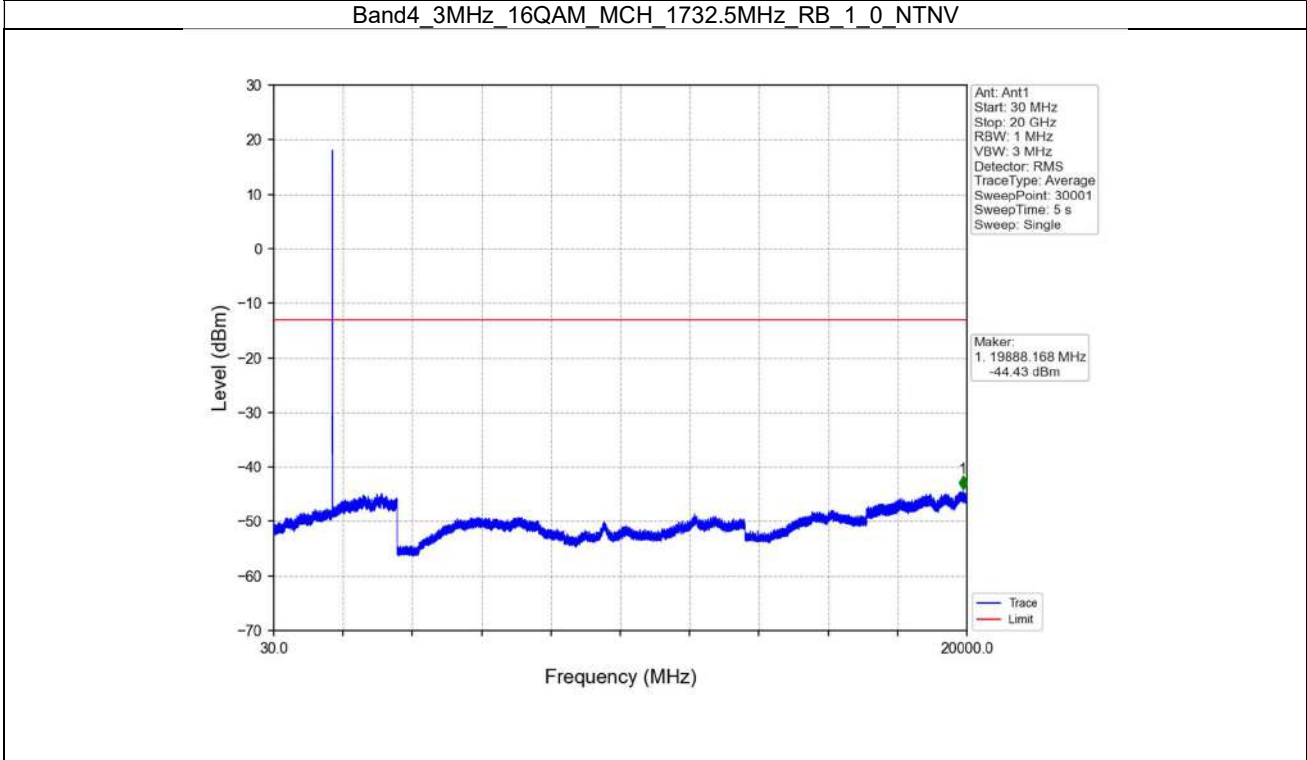
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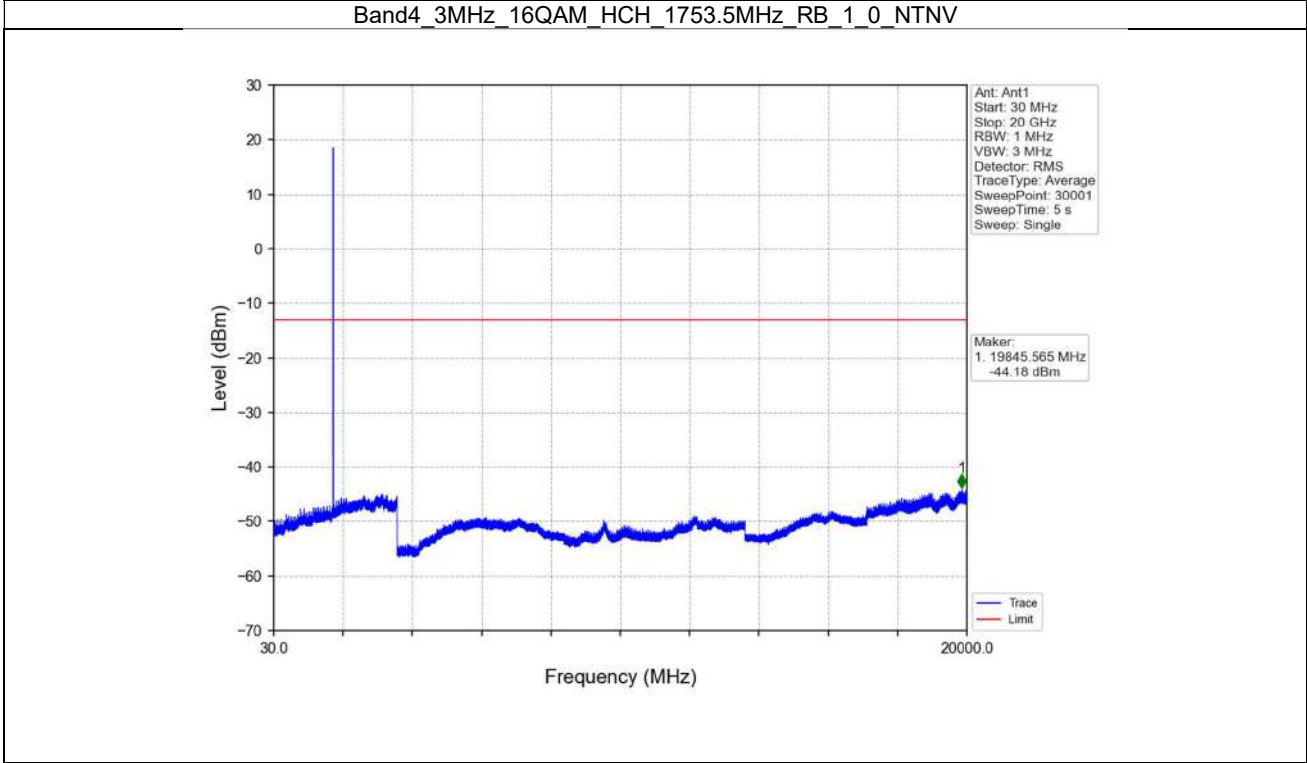


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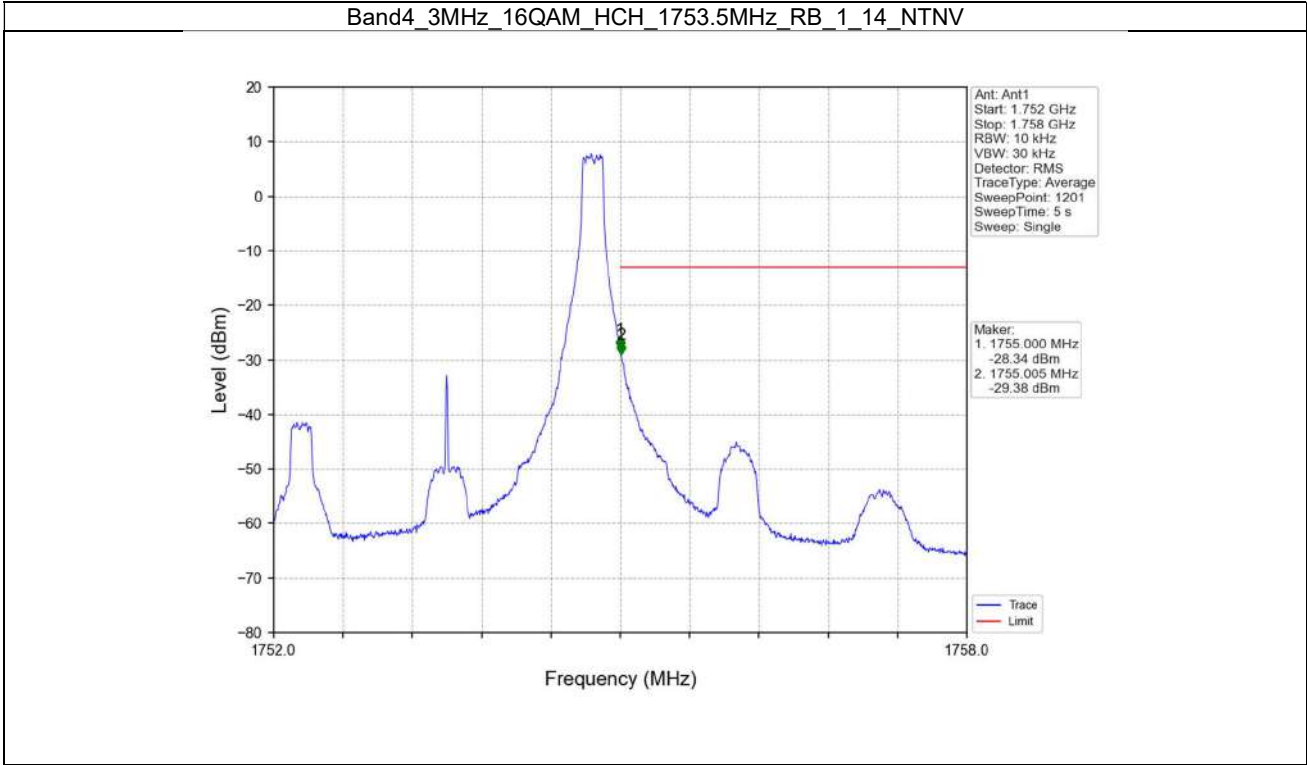
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV



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6.3 B4_5MHz

6.3.1 Test Result

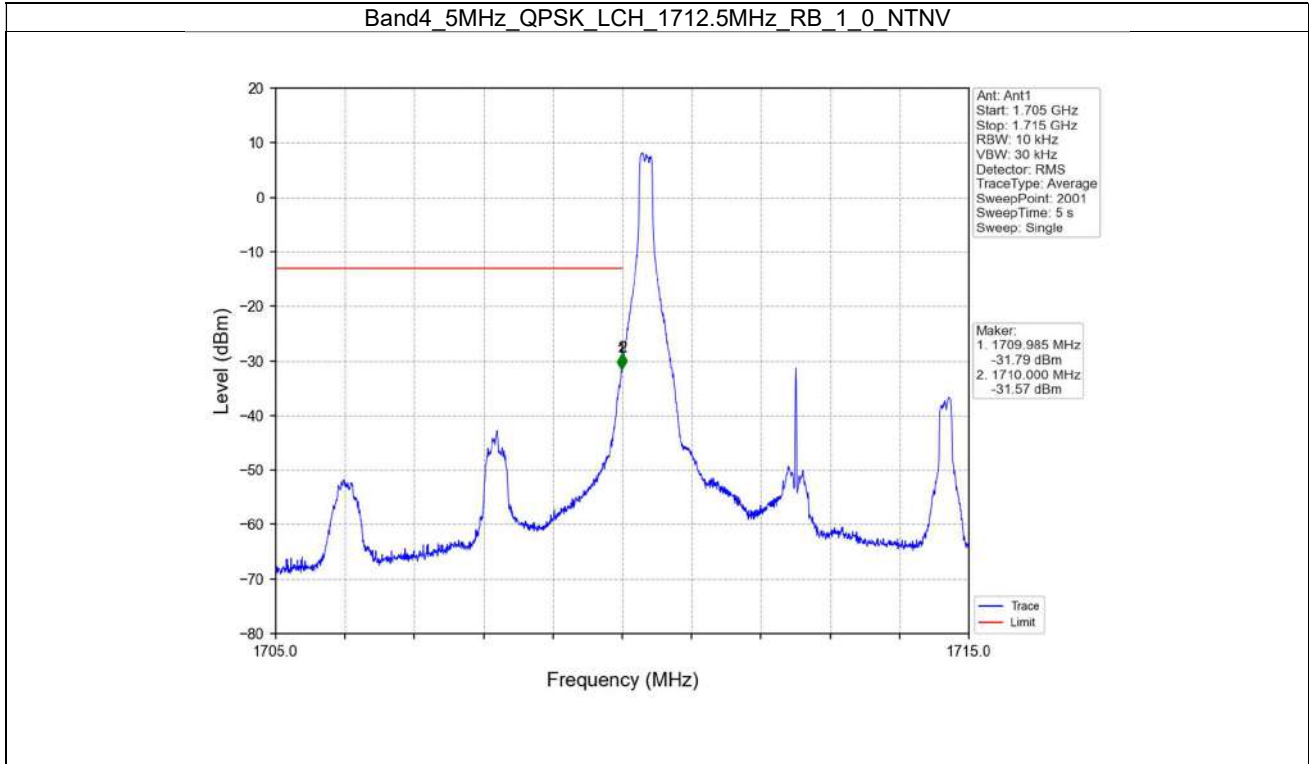
Band: 4 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		0	Refer To Test Graph		Pass	
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass



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6.3.2 Test Graph

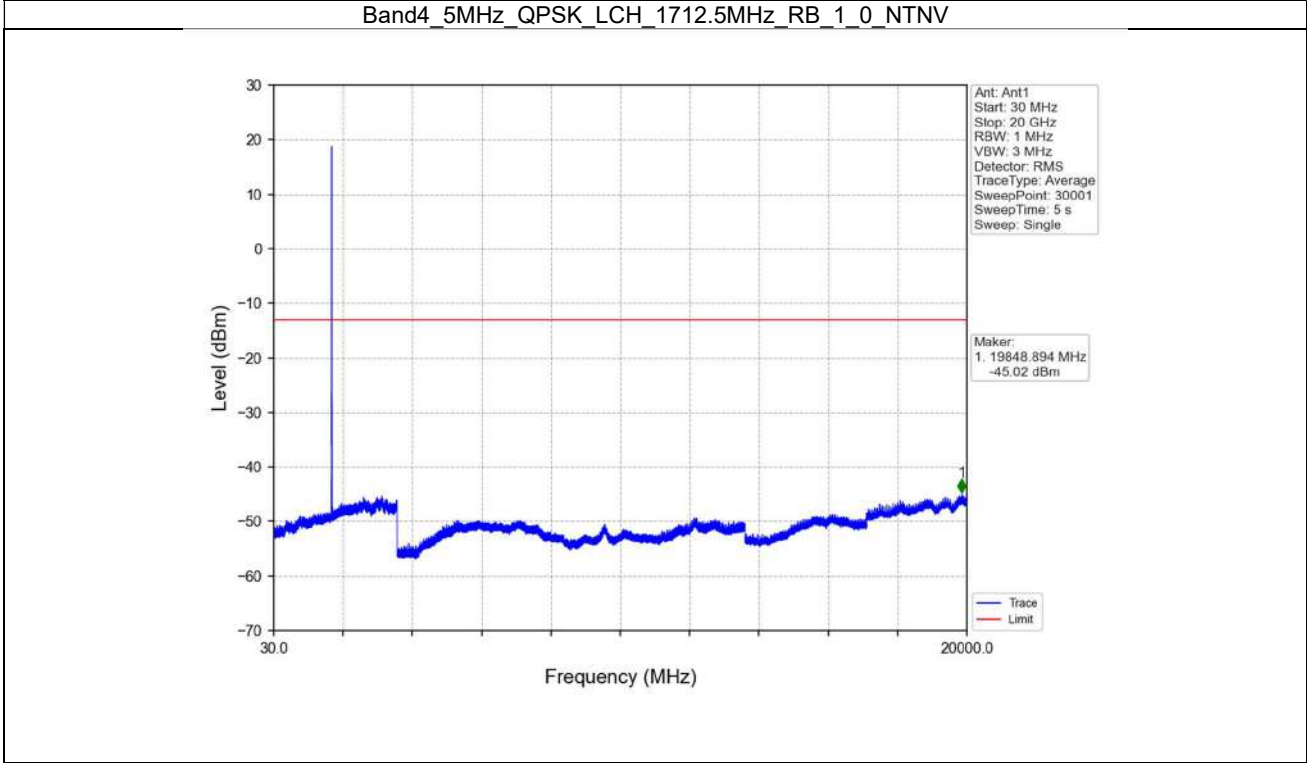


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Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV

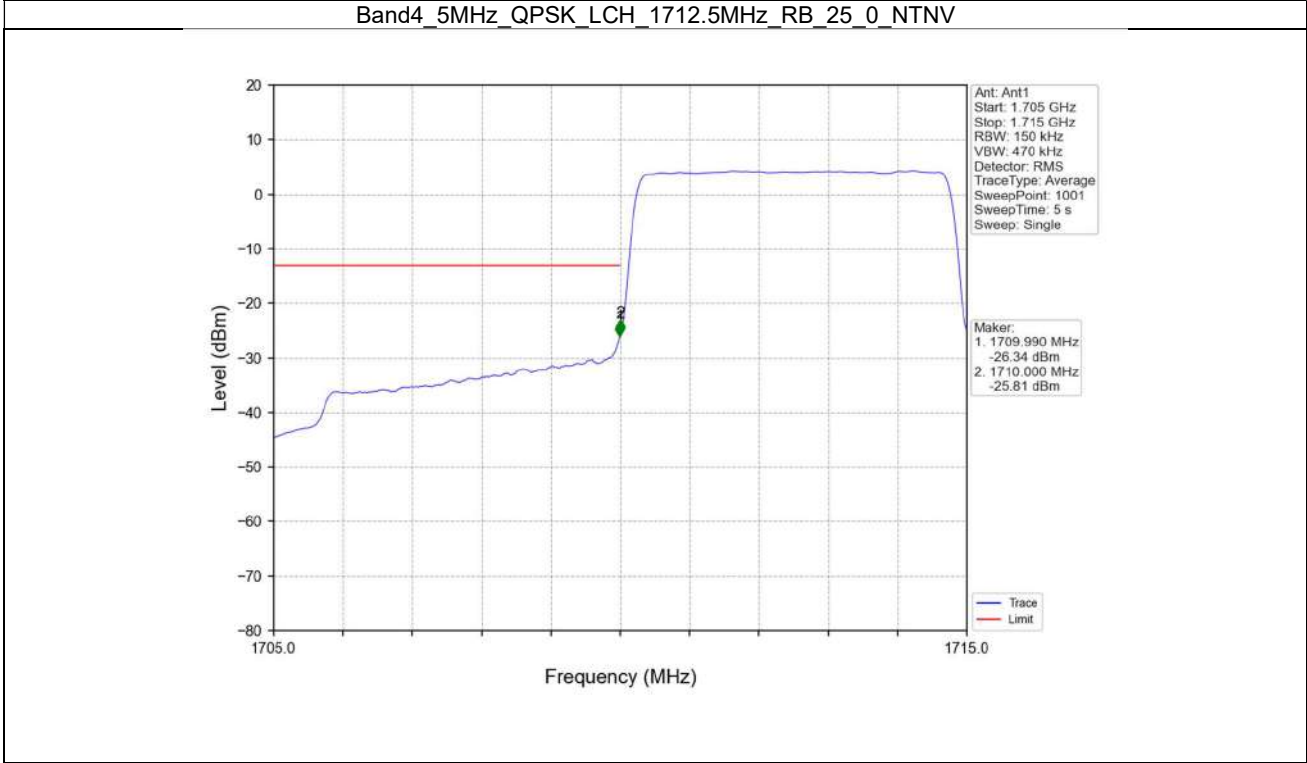


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Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV

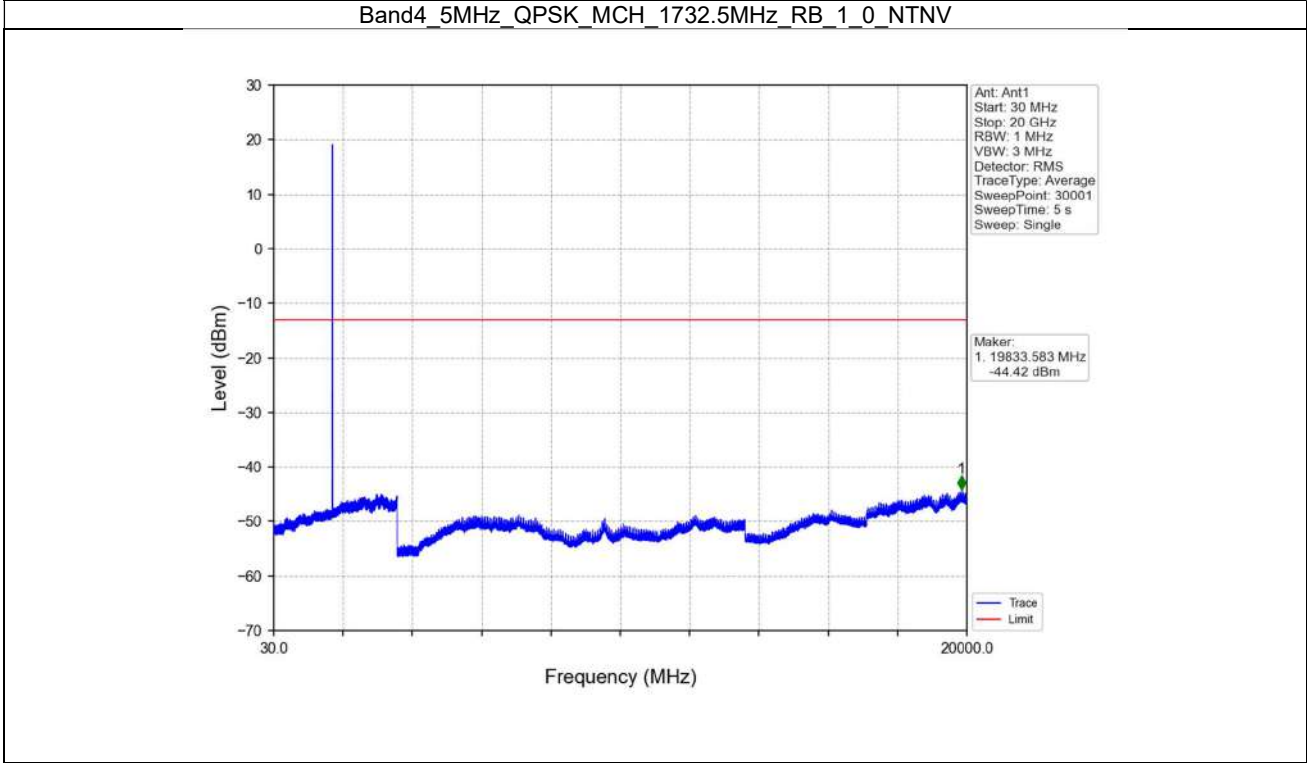


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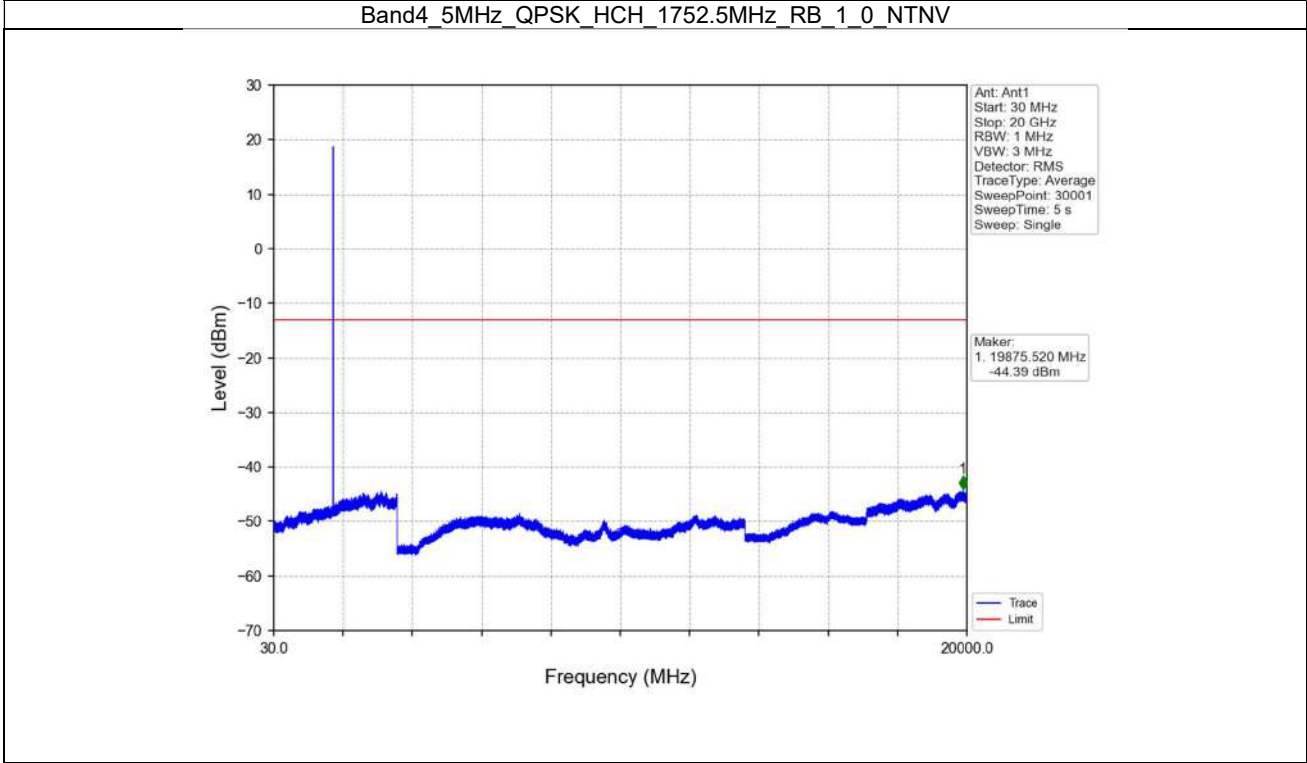
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV

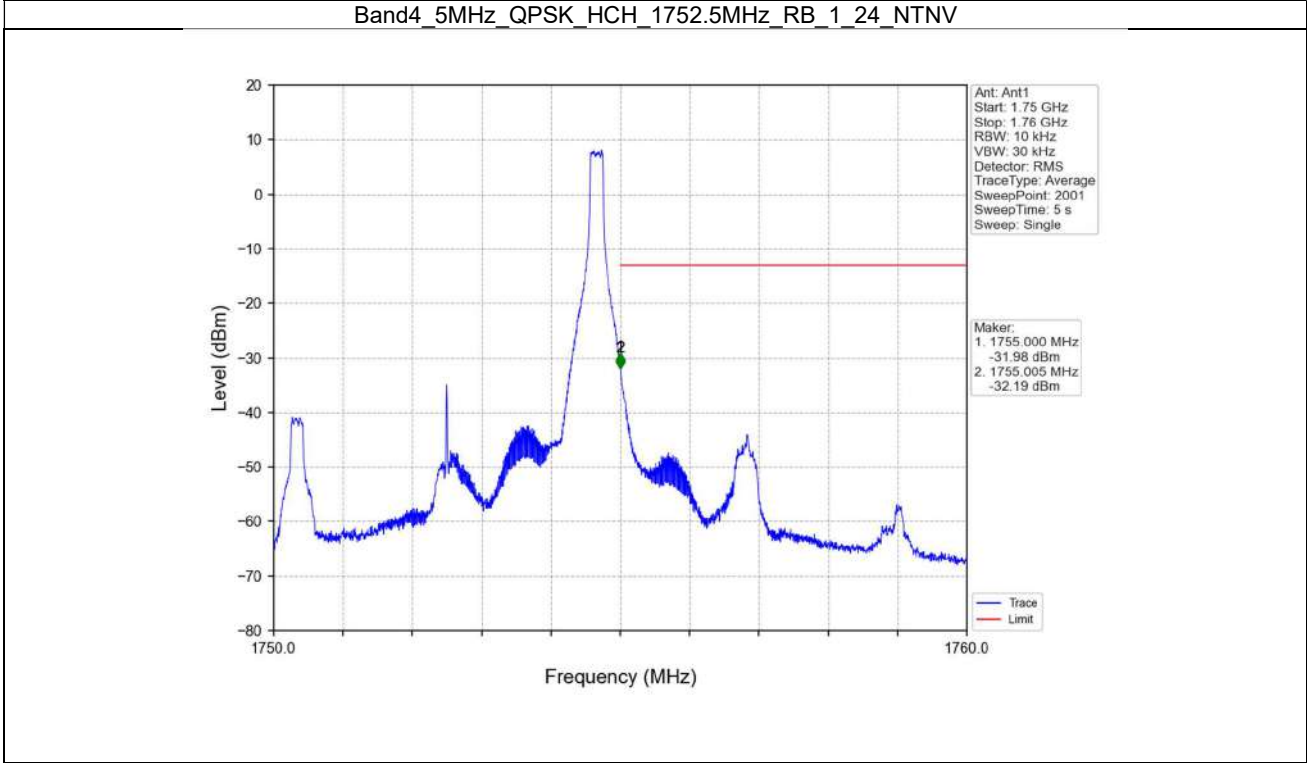


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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_24_NTNV

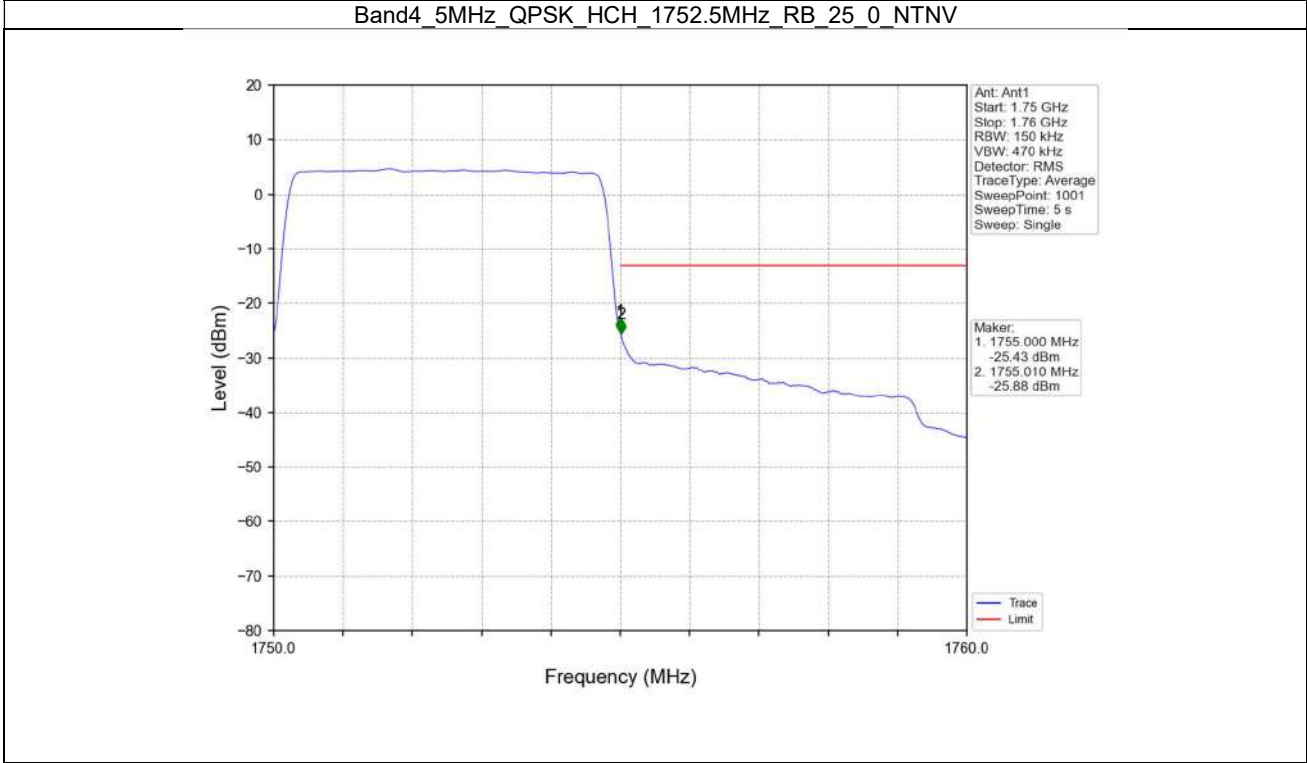


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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

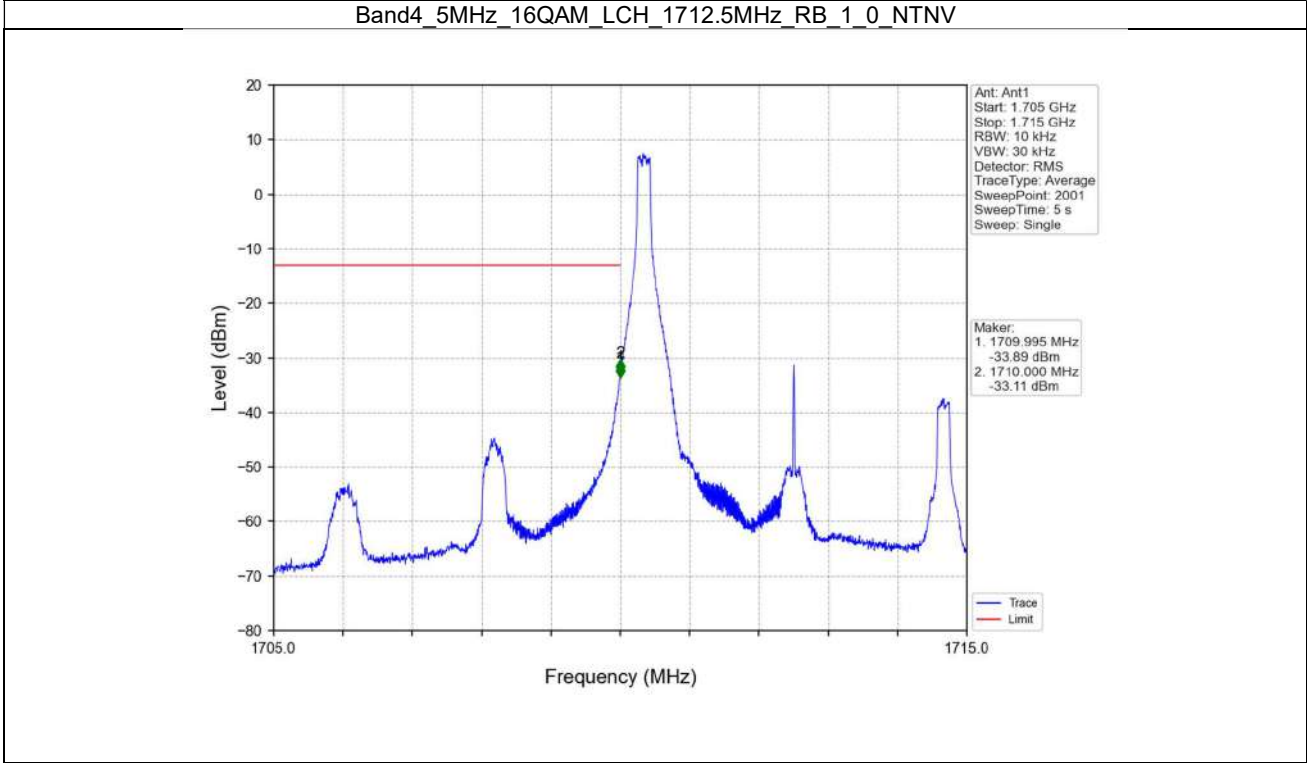


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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV

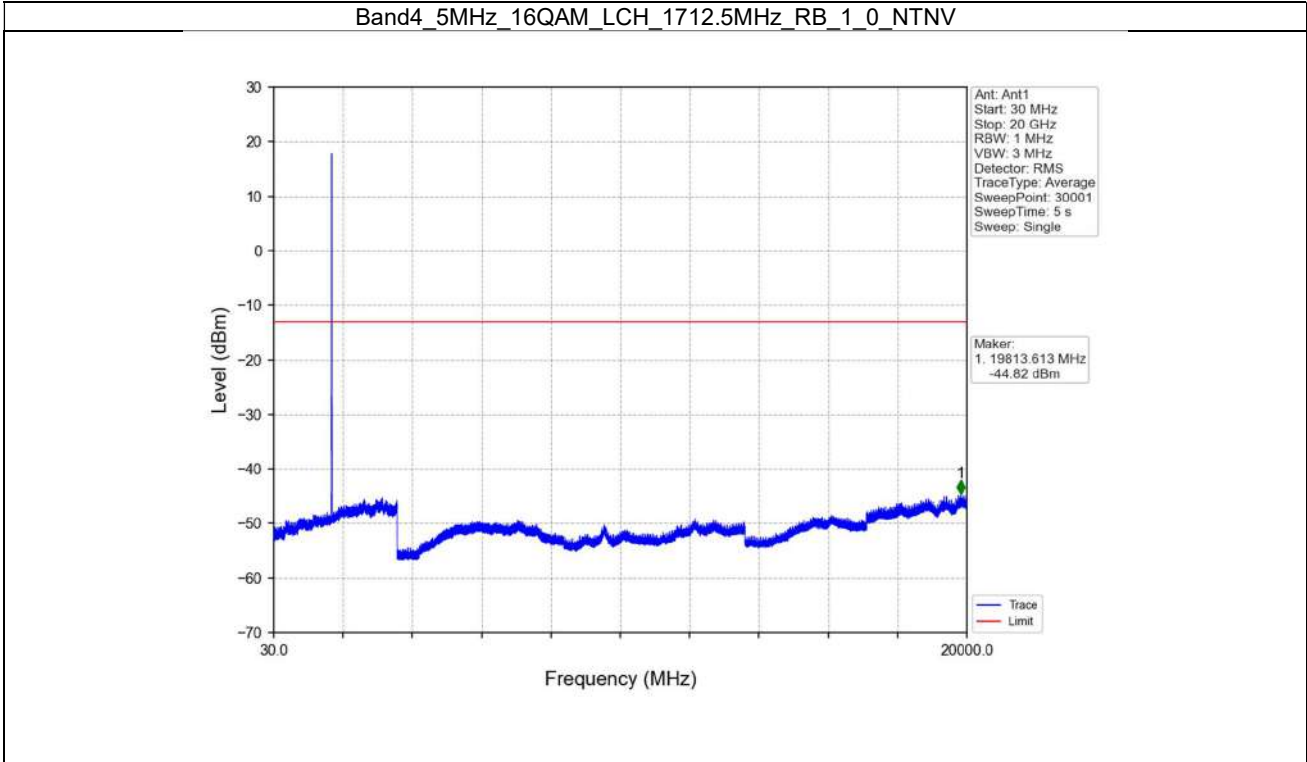


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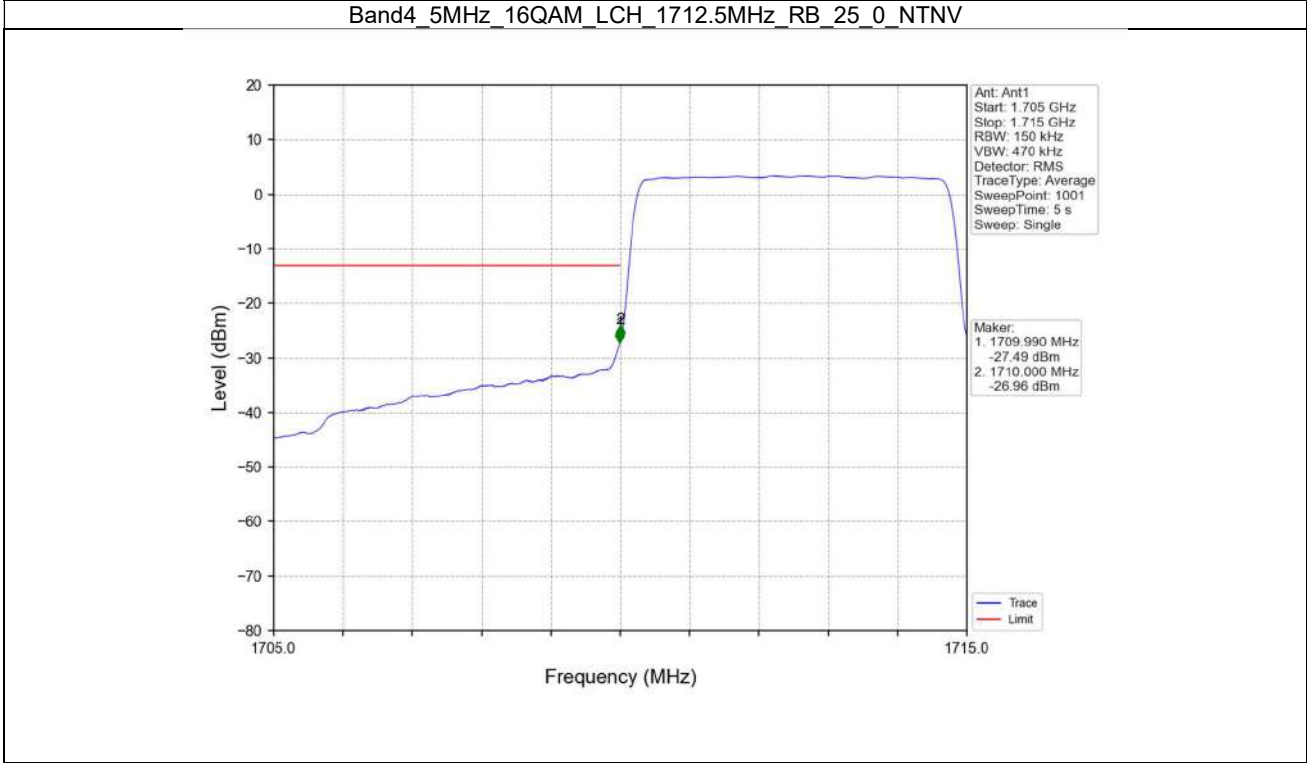


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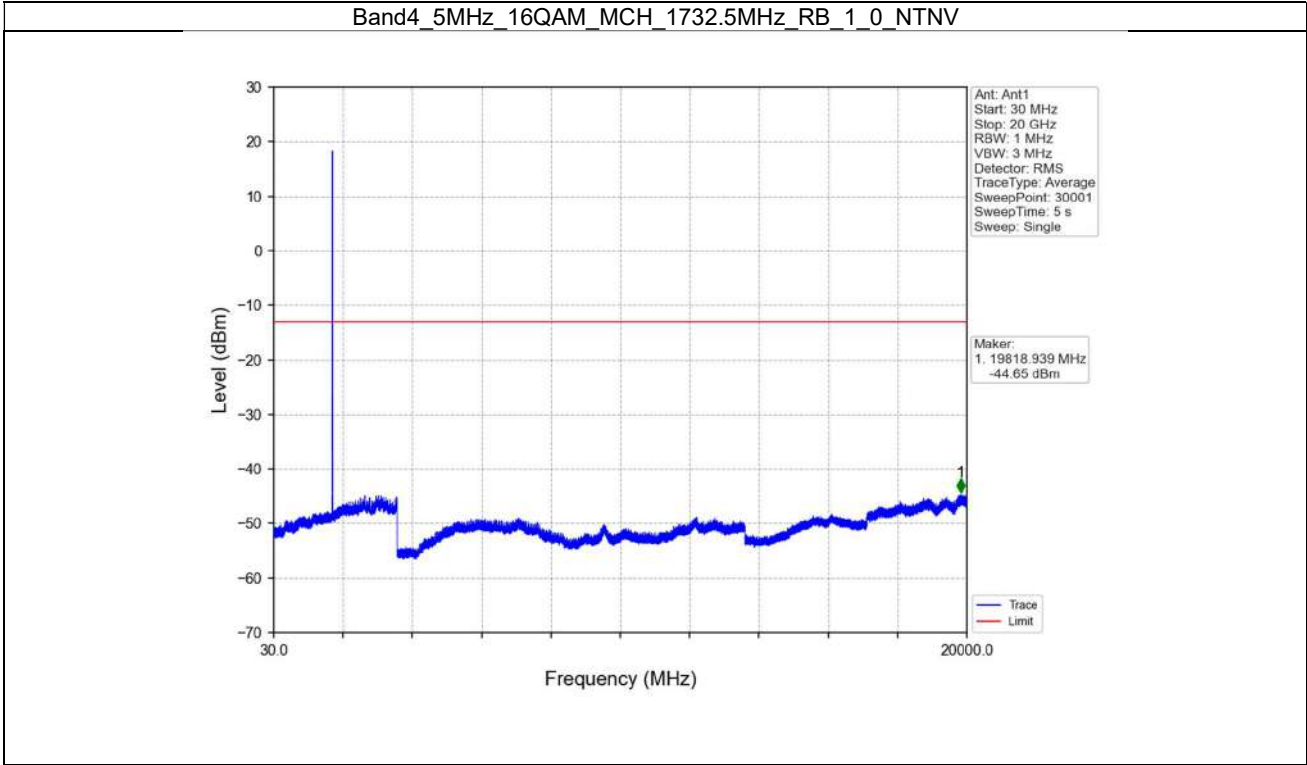
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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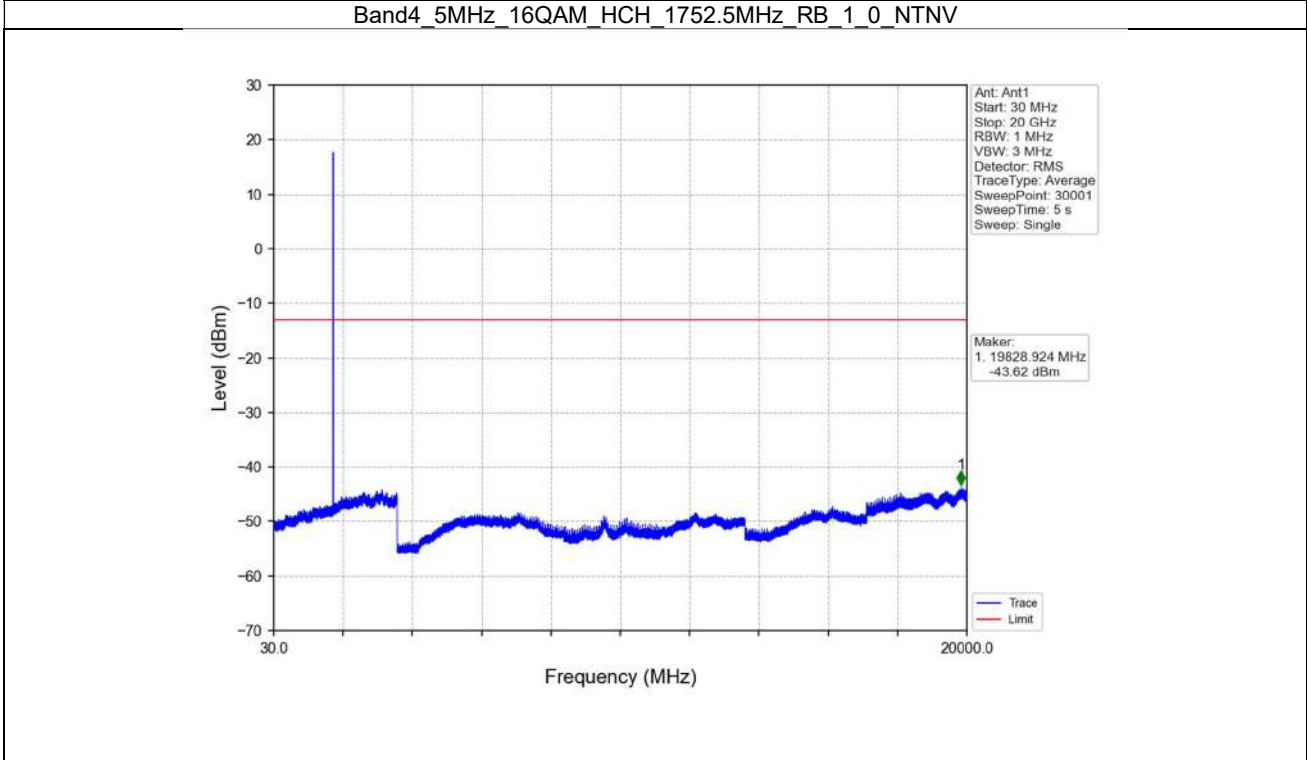


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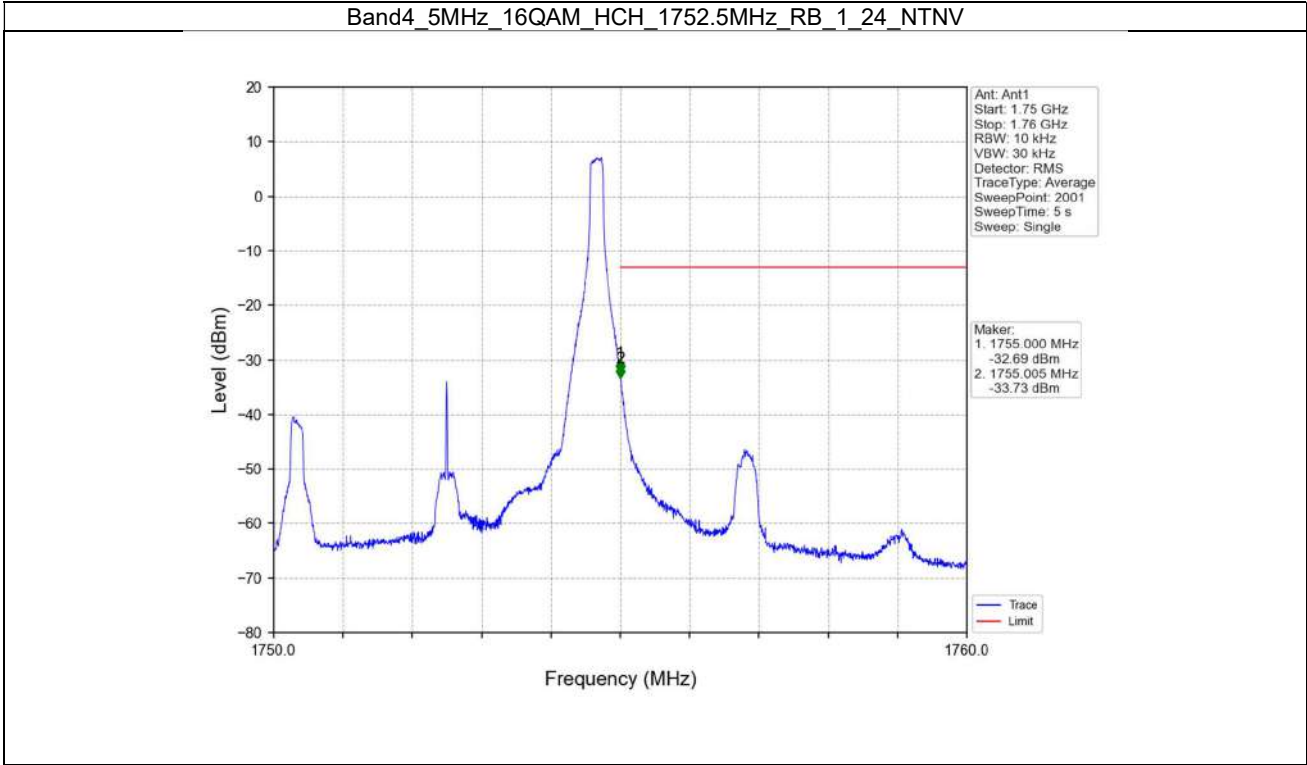
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV



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6.4 B4_10MHz

6.4.1 Test Result

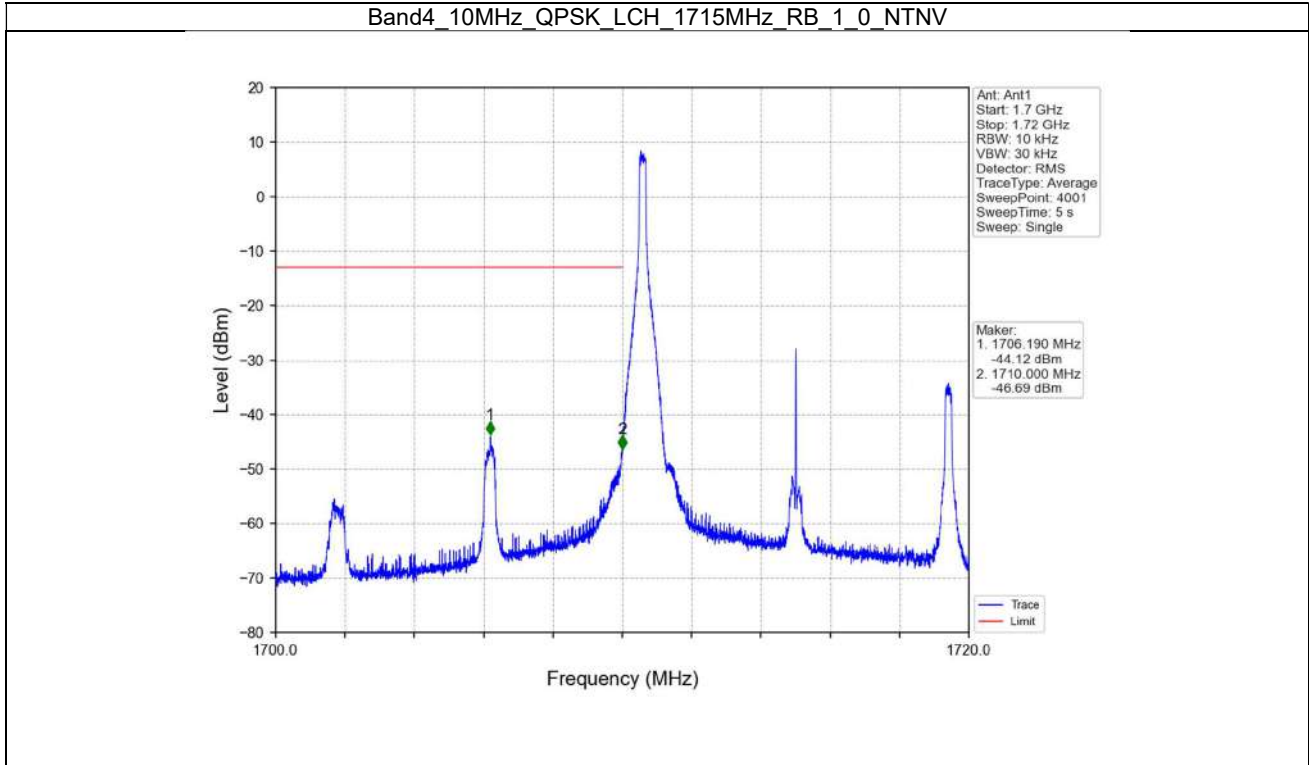
Band: 4 / Bandwidth: 10MHz / NTV							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1715	1	0	Refer To Test Graph		Pass	
		50	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
		1750	1	0	Refer To Test Graph		Pass
				49	Refer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



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6.4.2 Test Graph

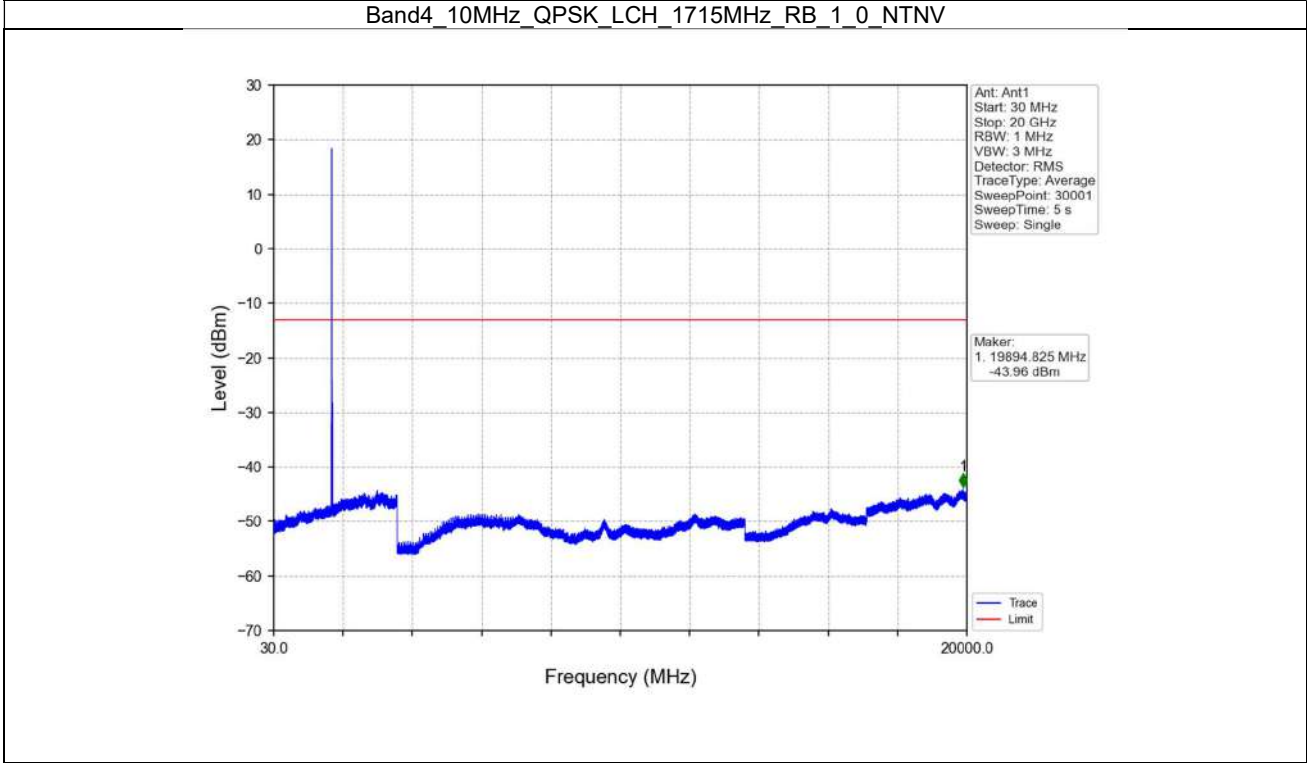


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Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



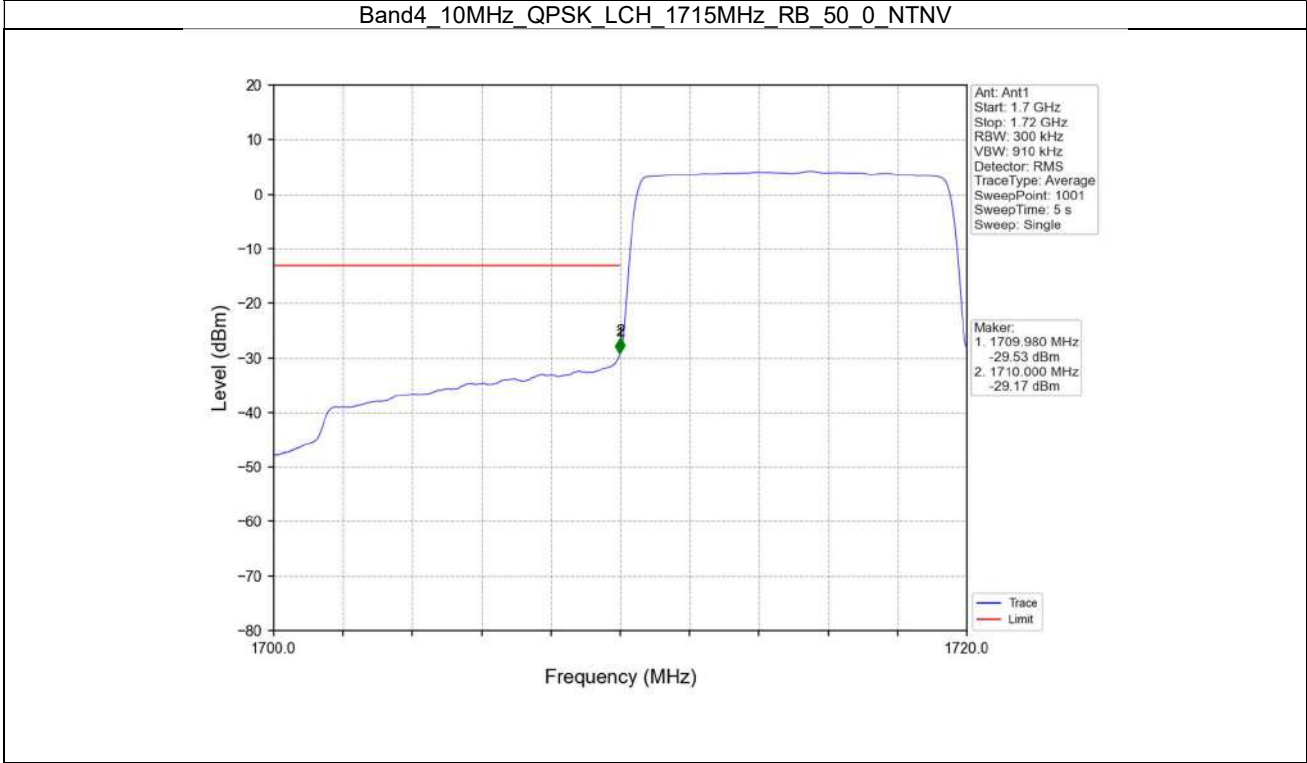
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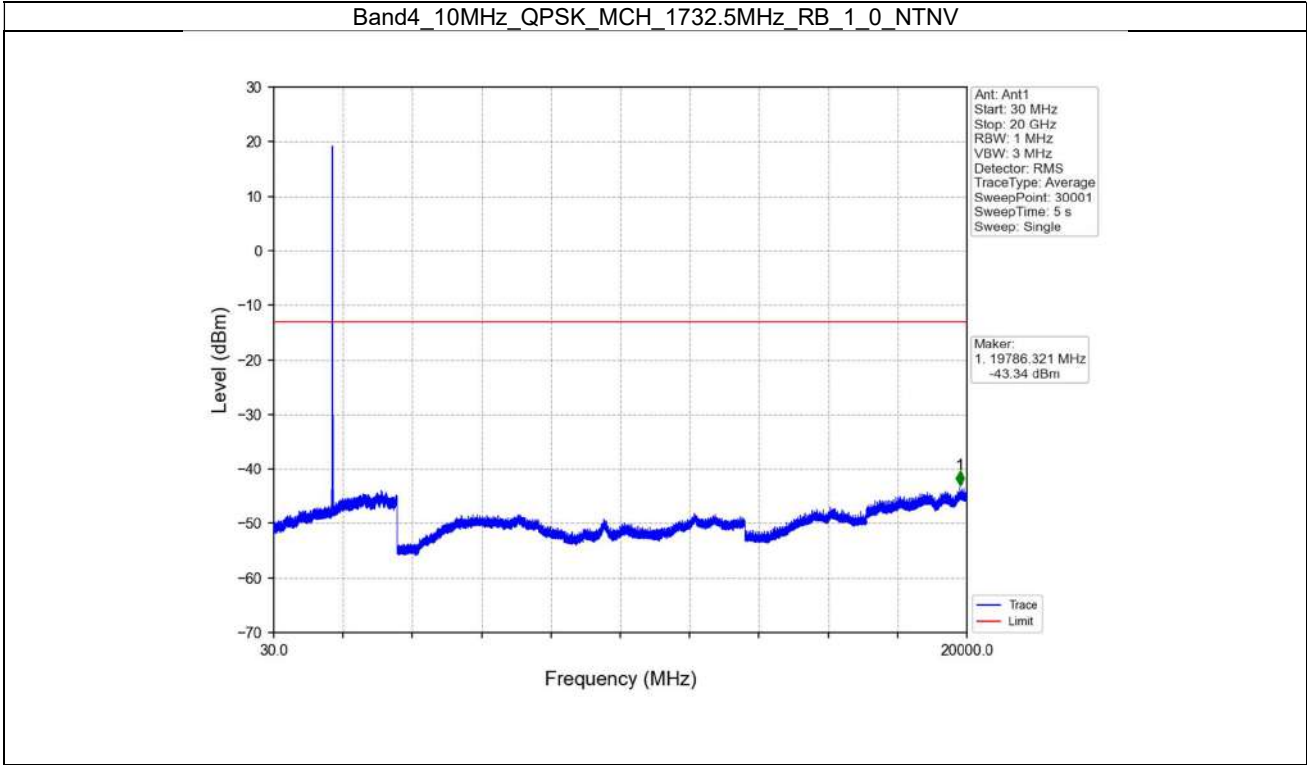


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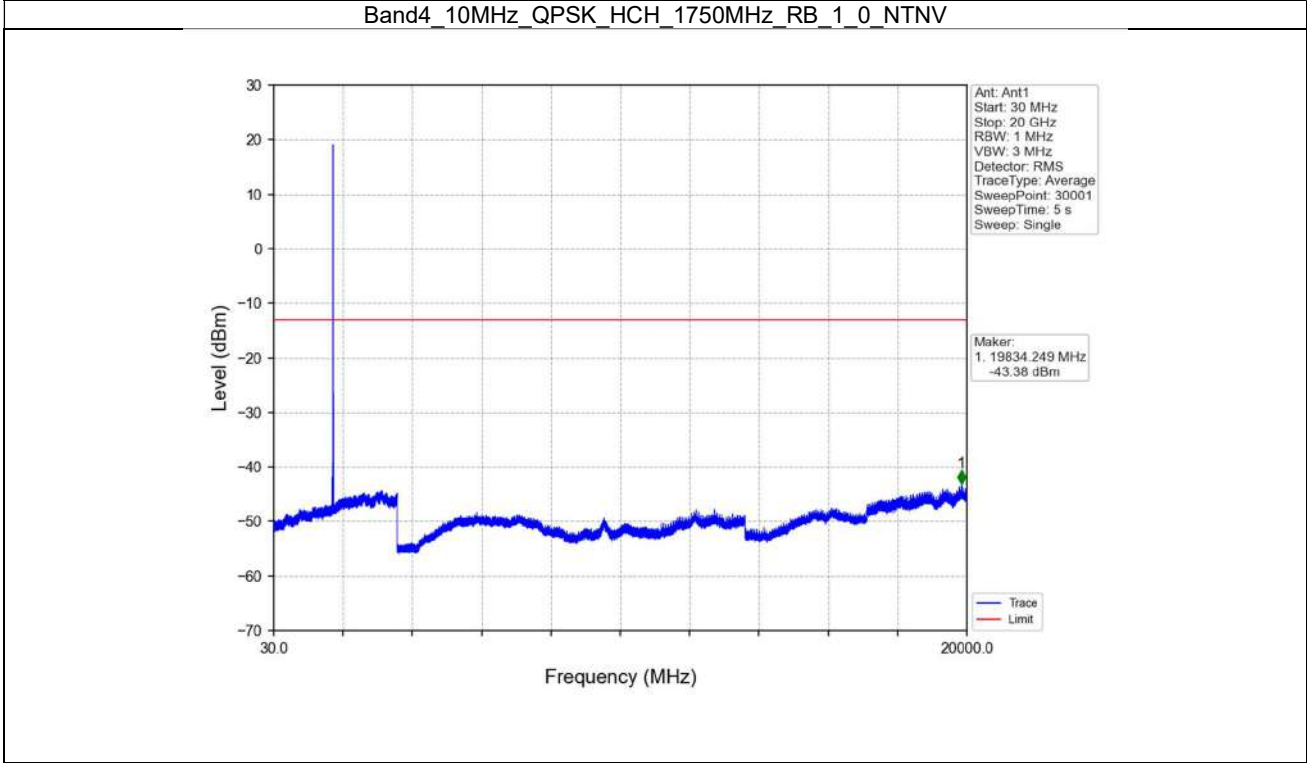


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Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



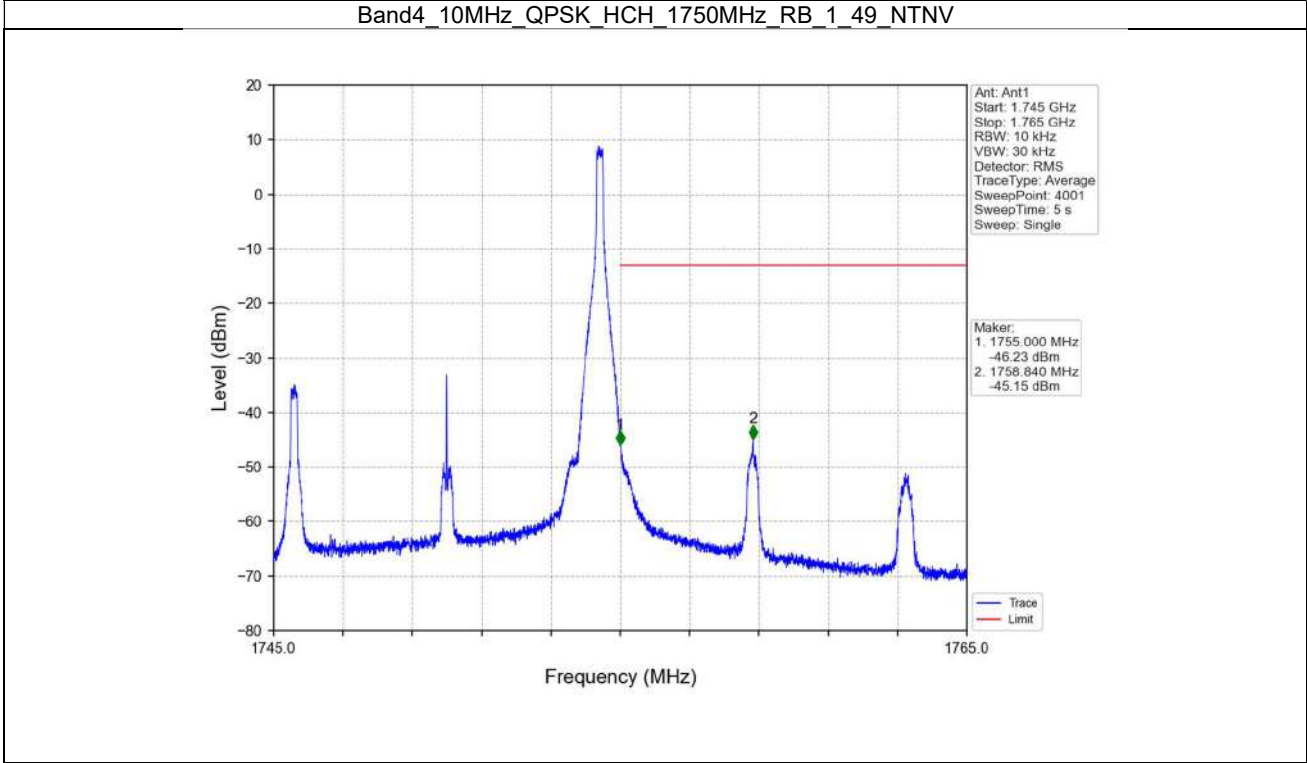
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Band4_10MHz_QPSK_HCH_1750MHz_RB_1_49_NTNV

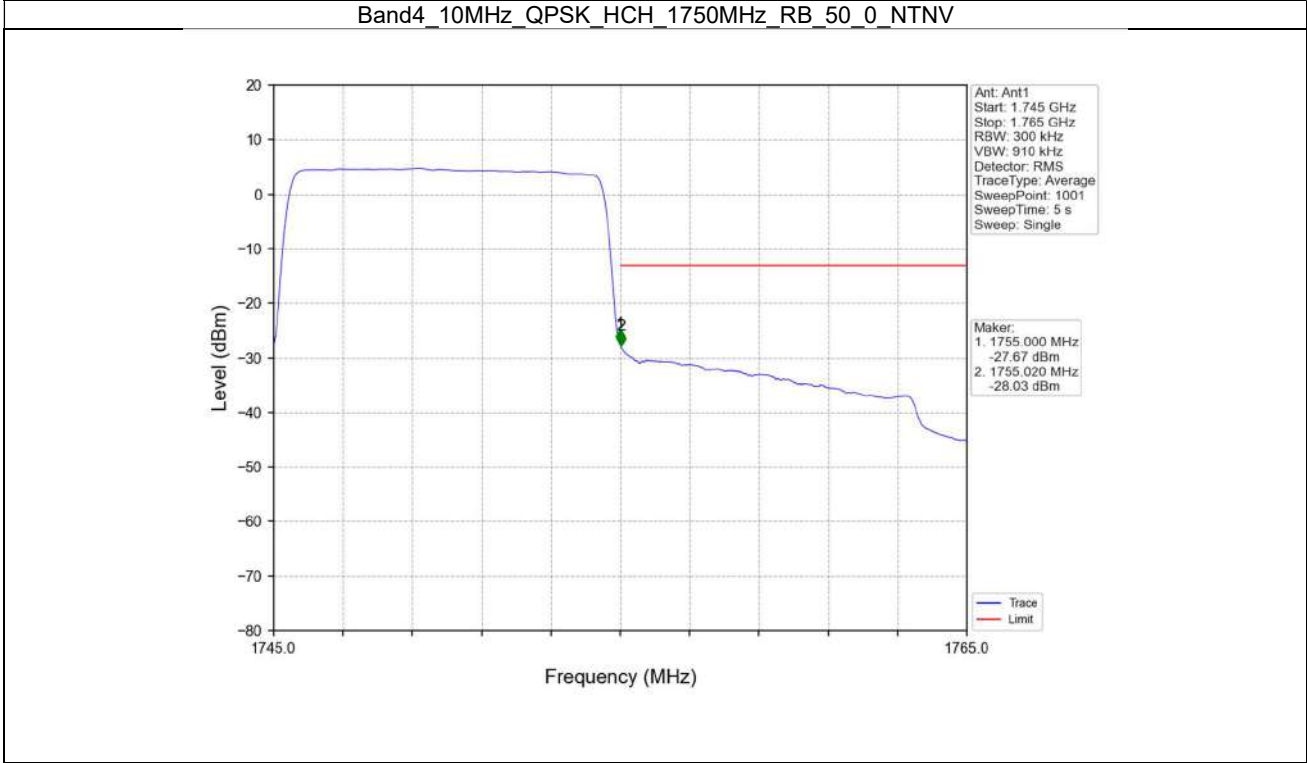


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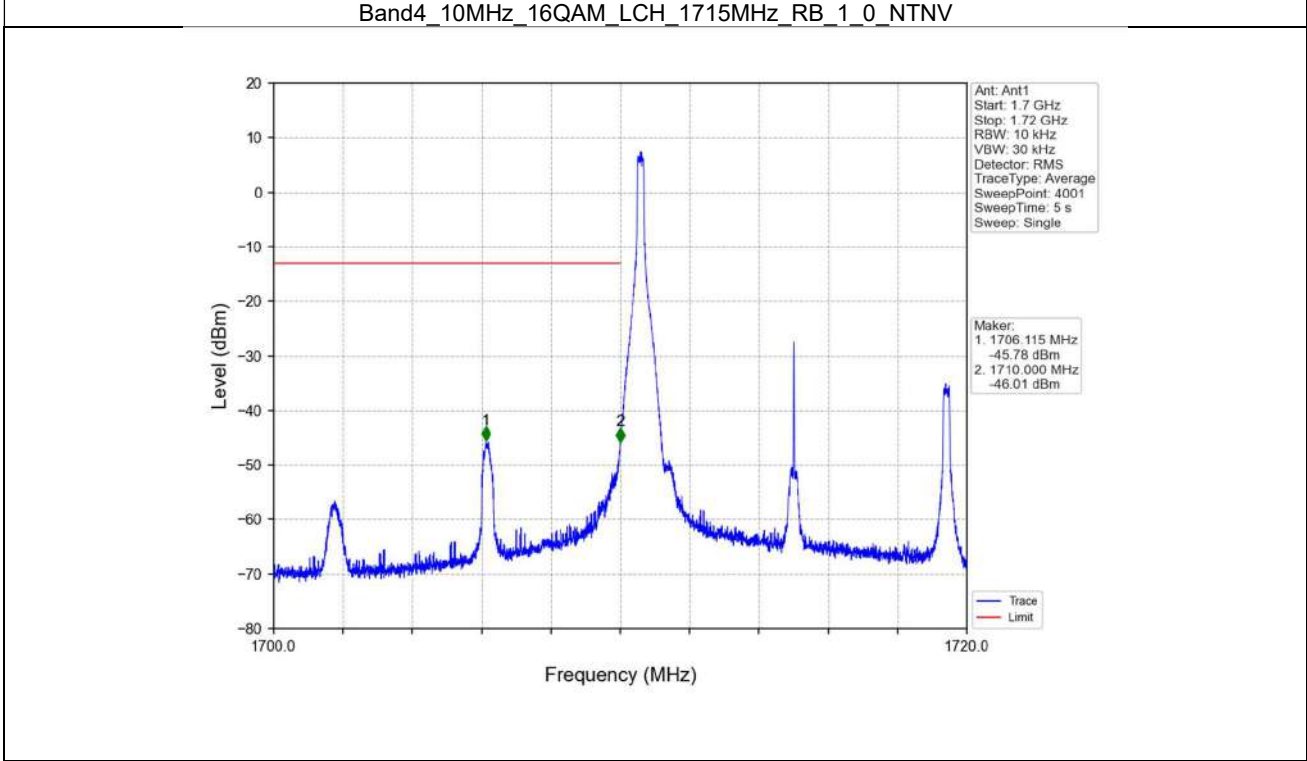
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Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV

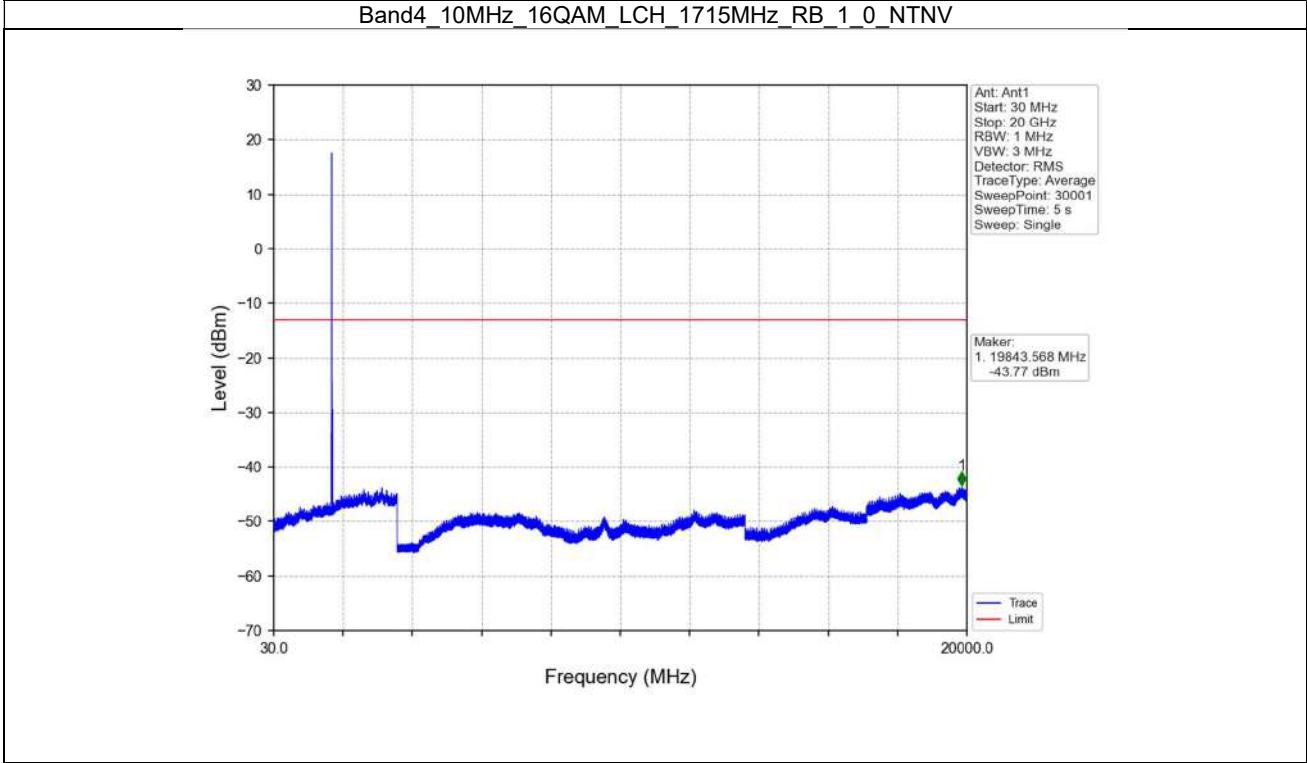


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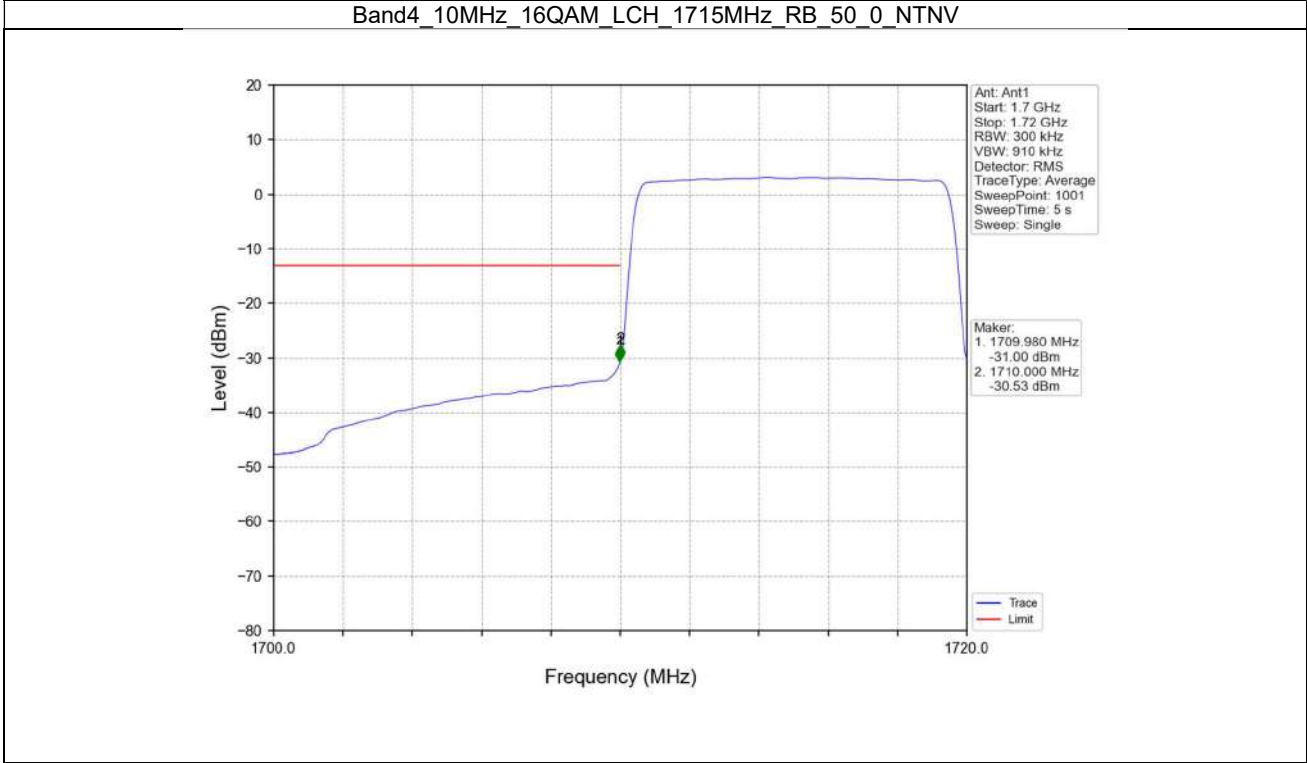


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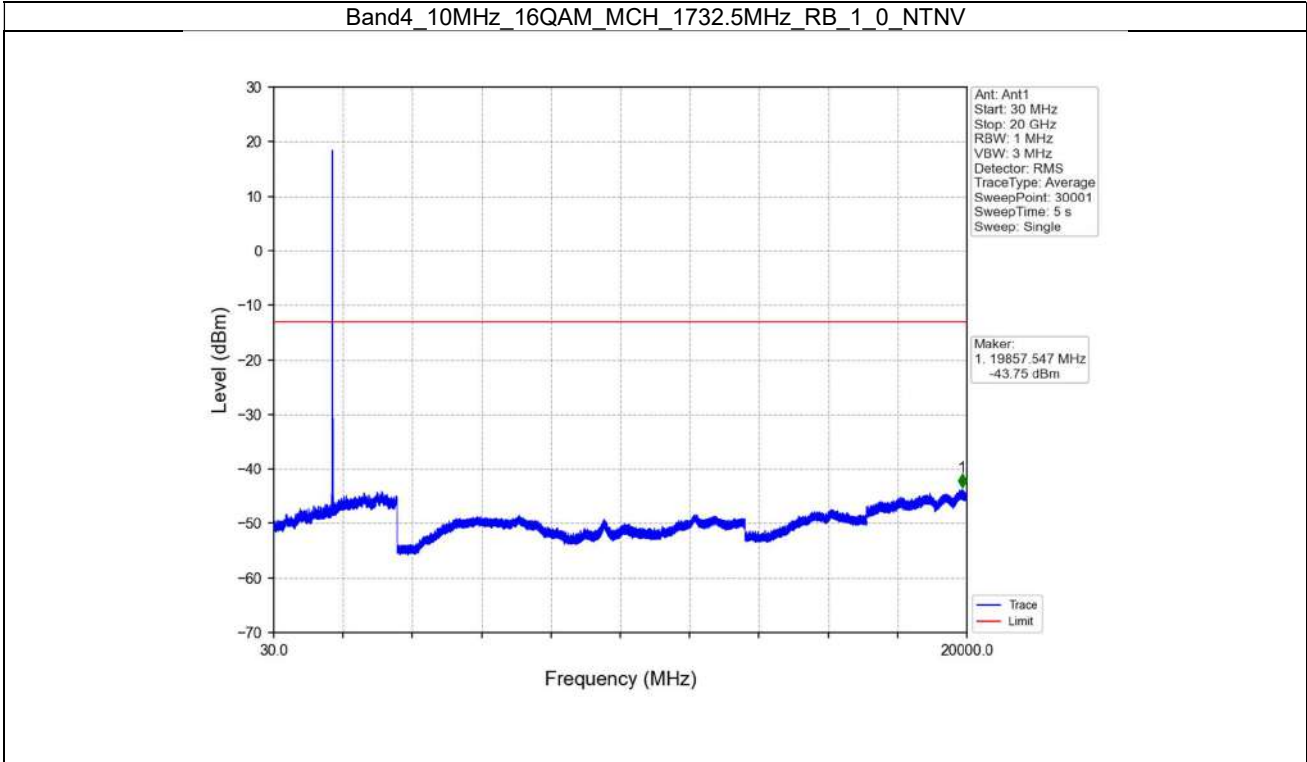
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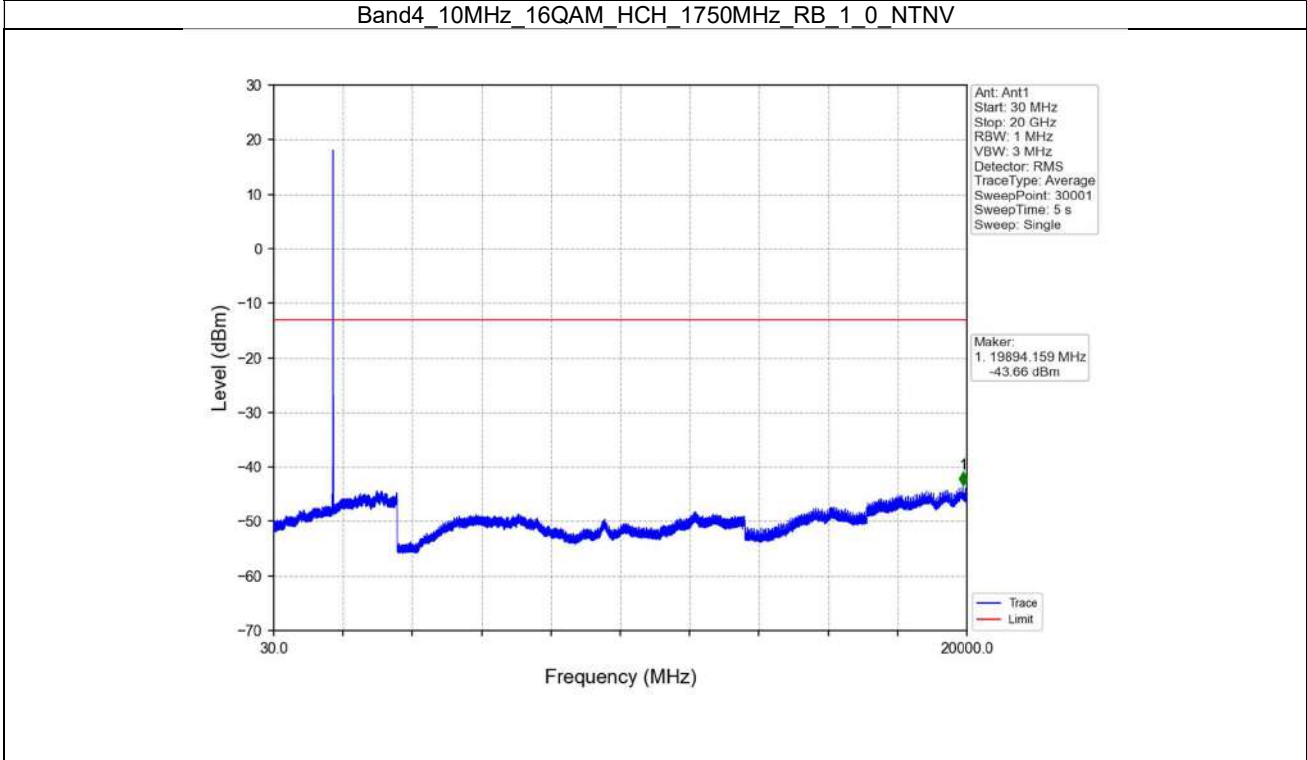


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Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV

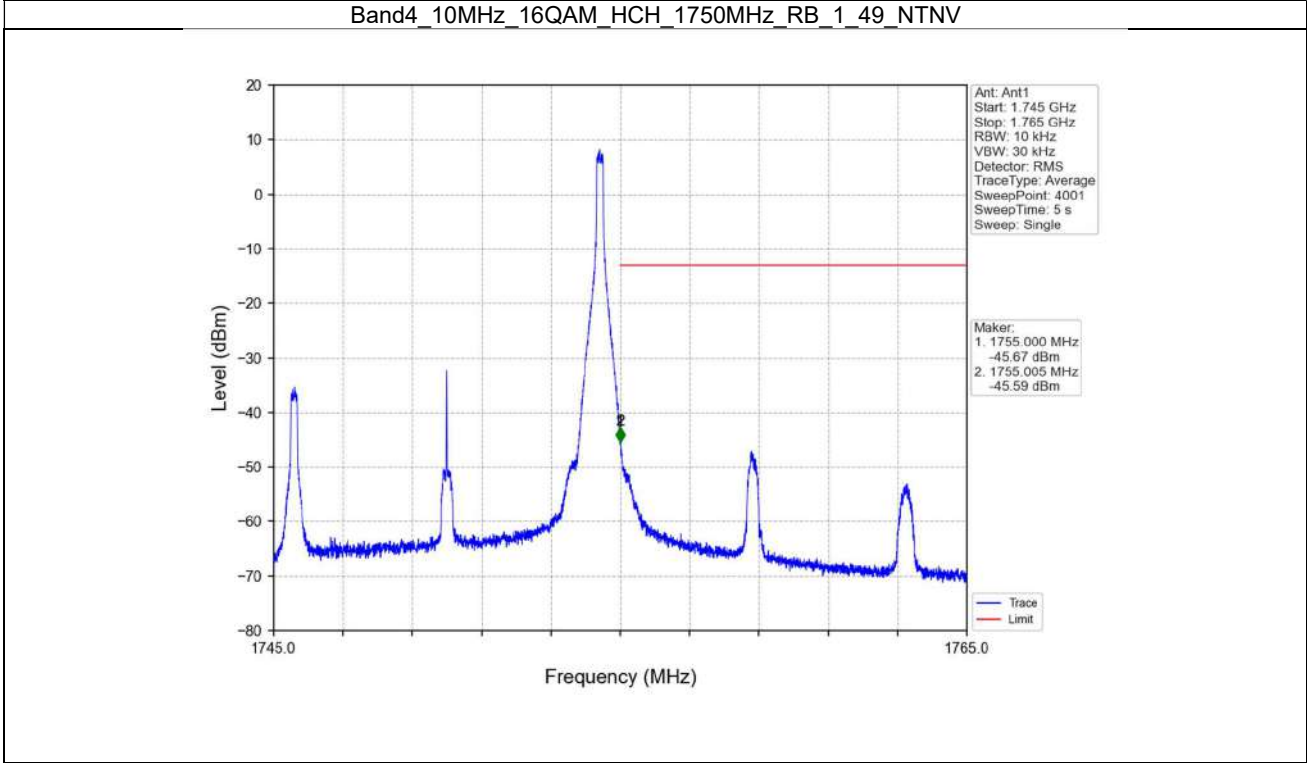


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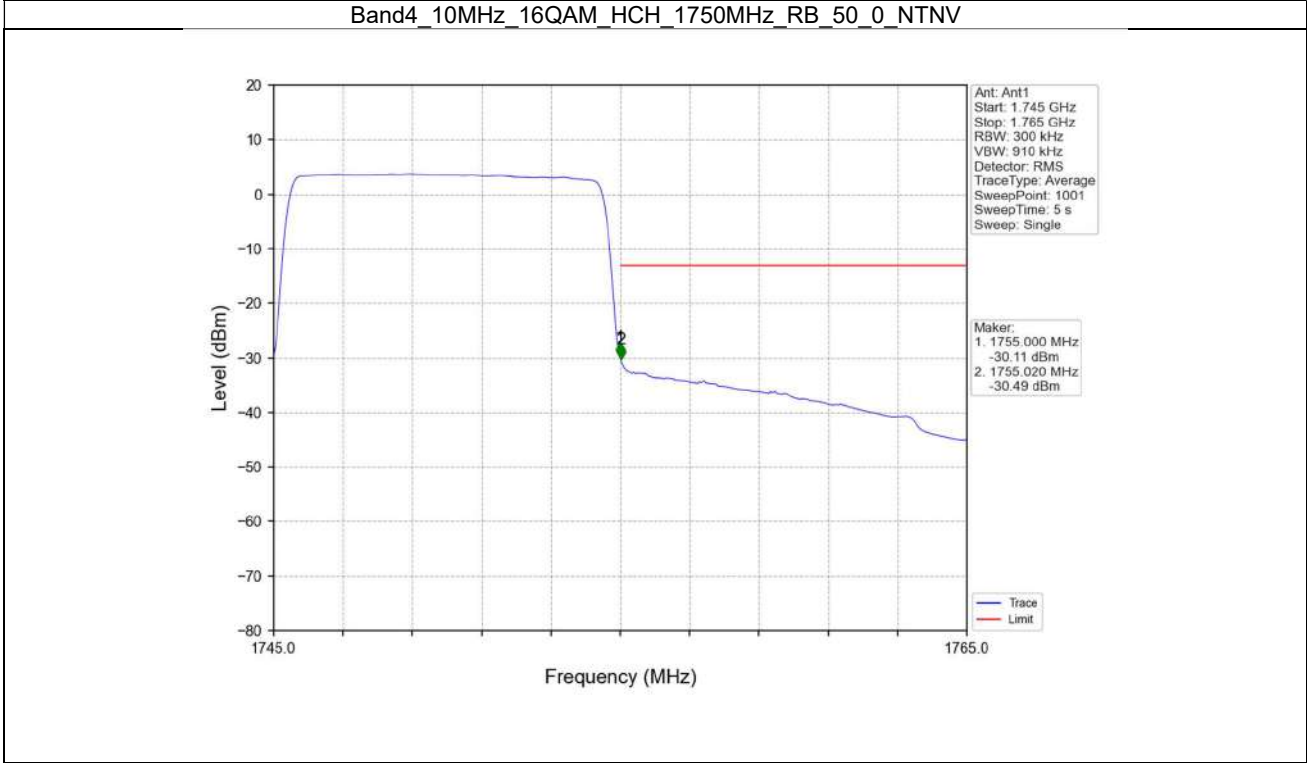


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6.5 B4_15MHz

6.5.1 Test Result

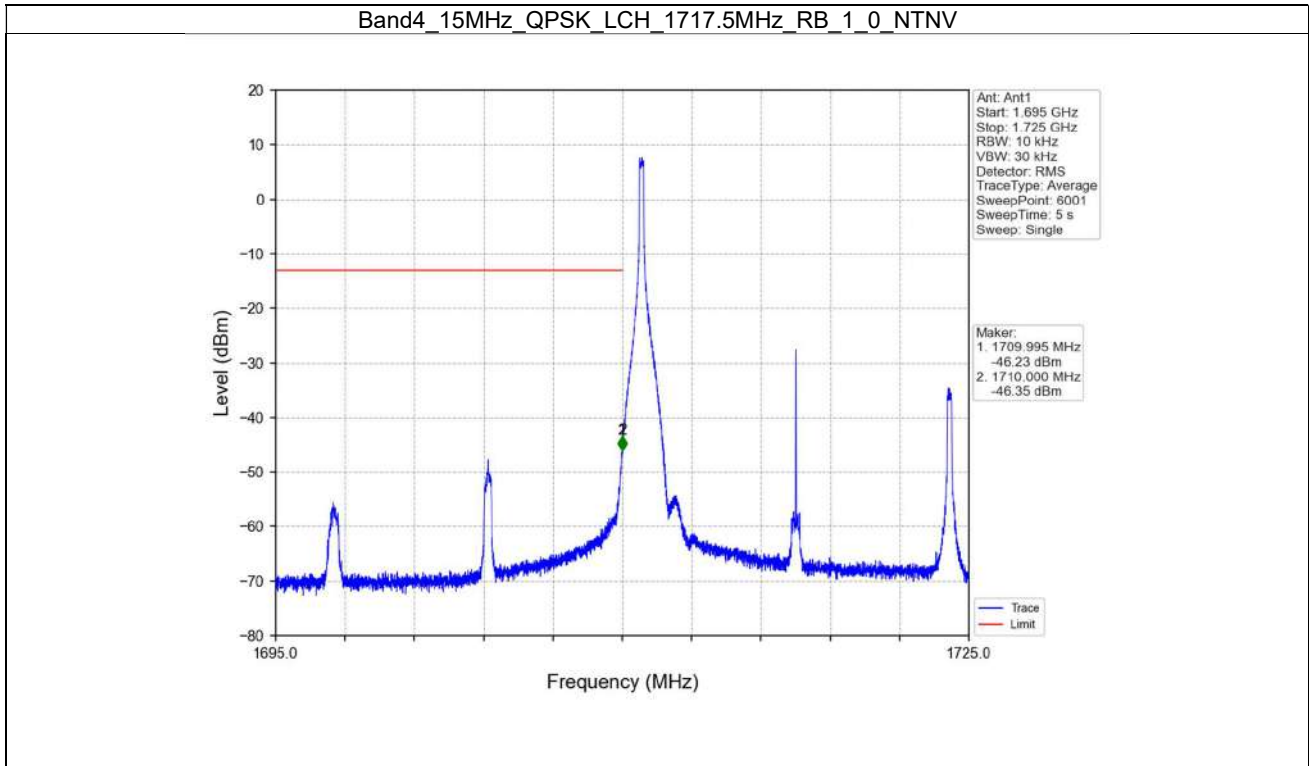
Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
		1	74	Refer To Test Graph		Pass
		75	0	Refer To Test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



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6.5.2 Test Graph



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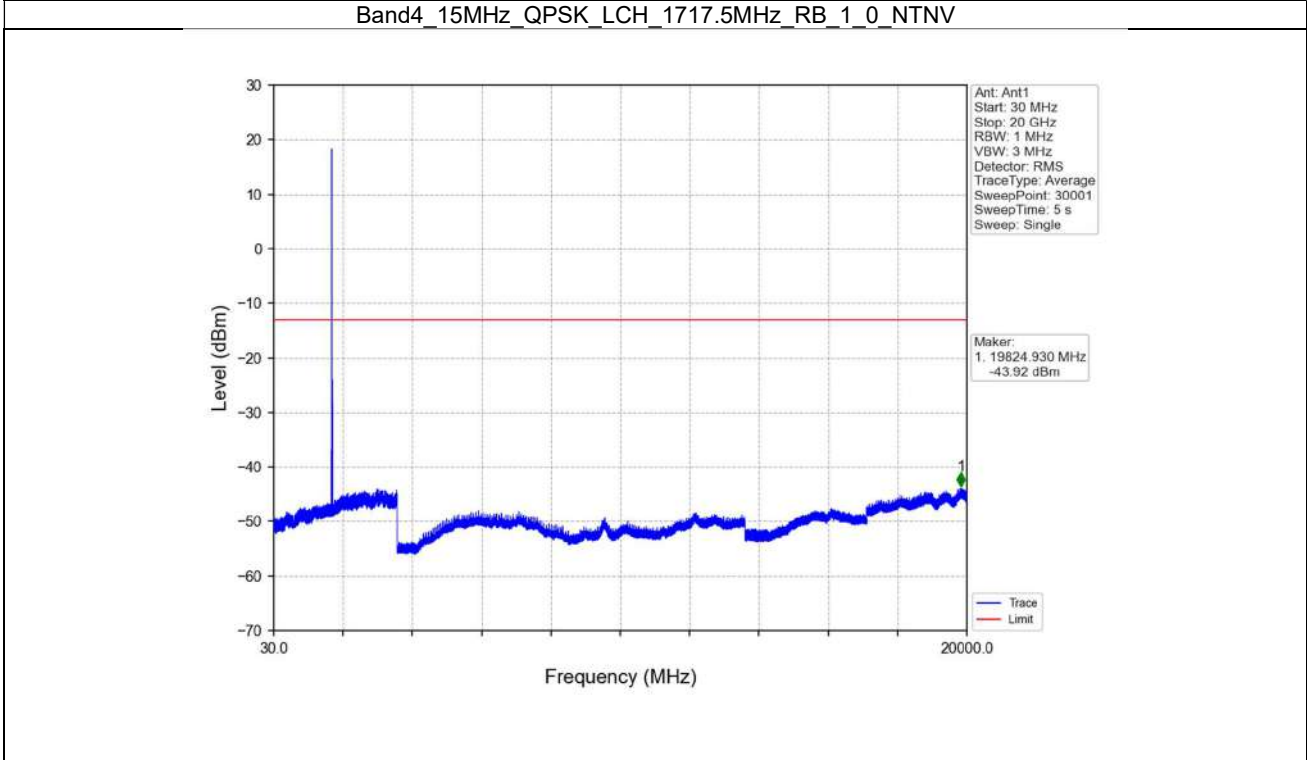
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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV

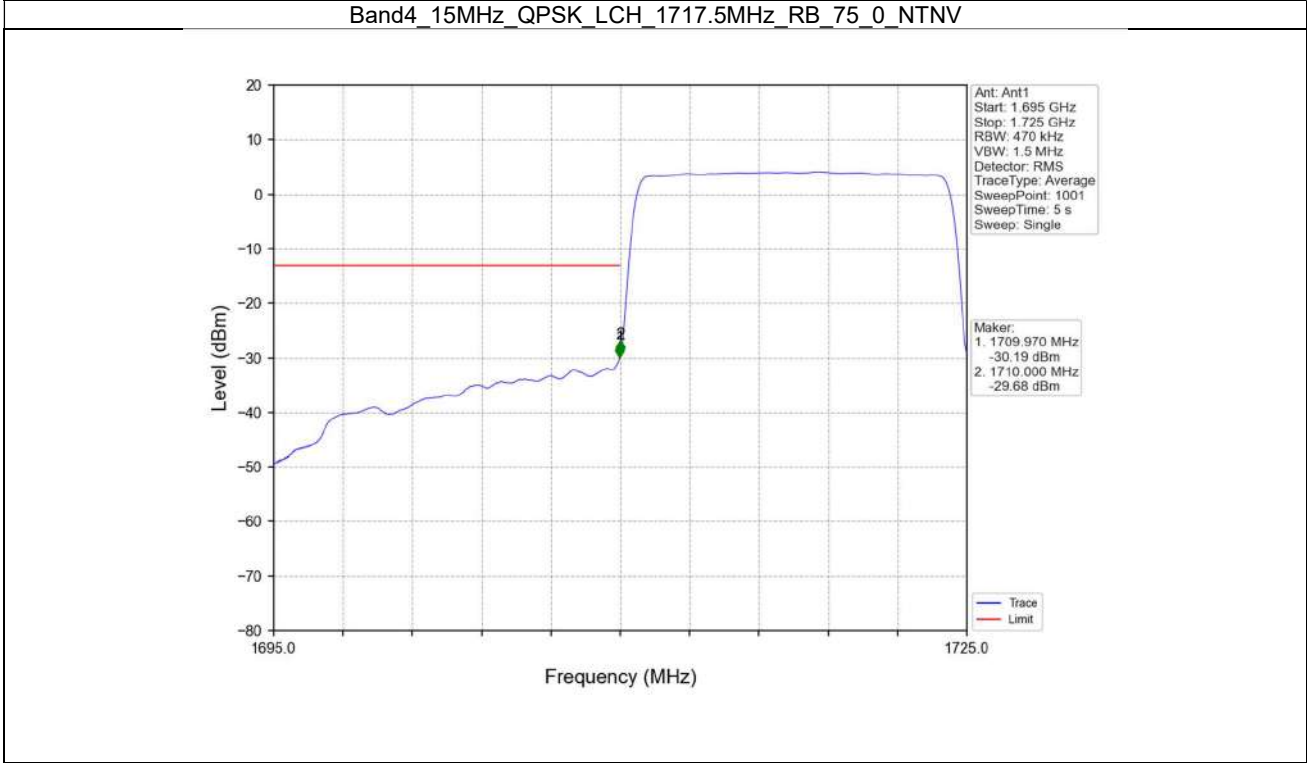


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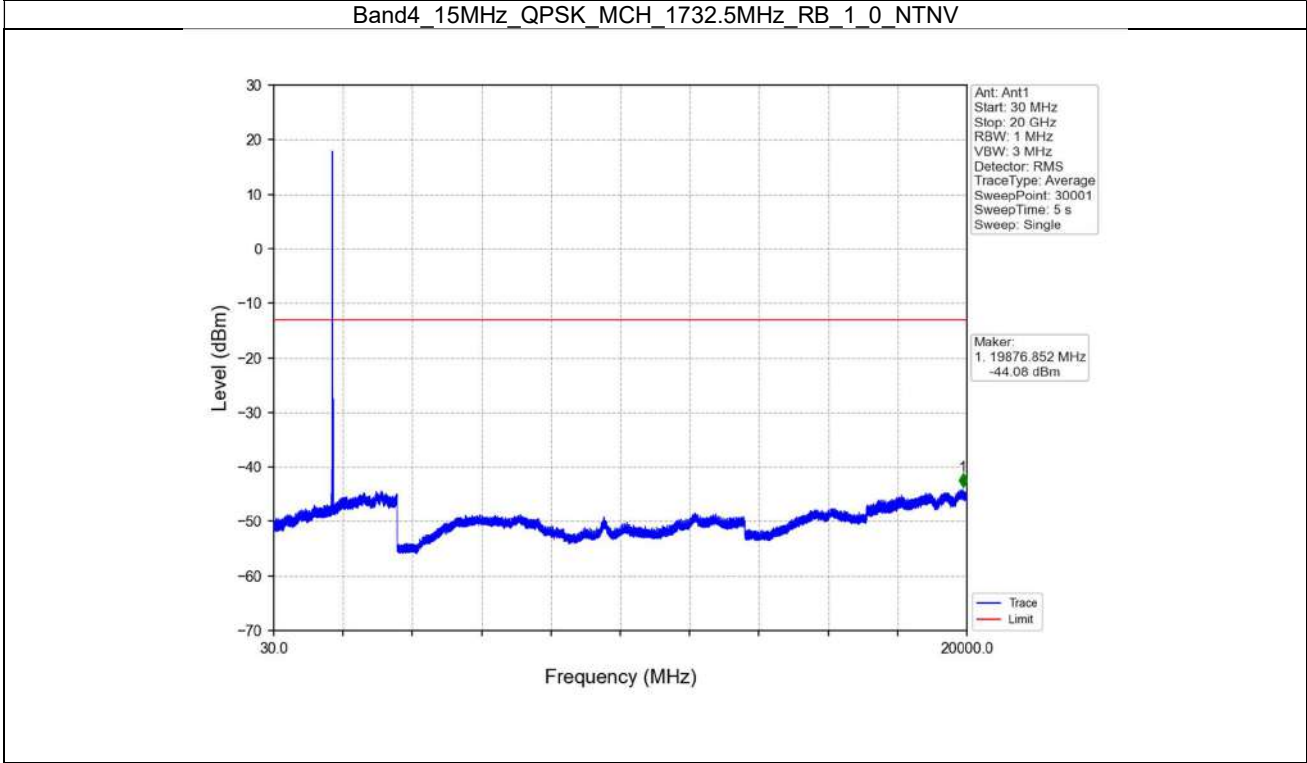
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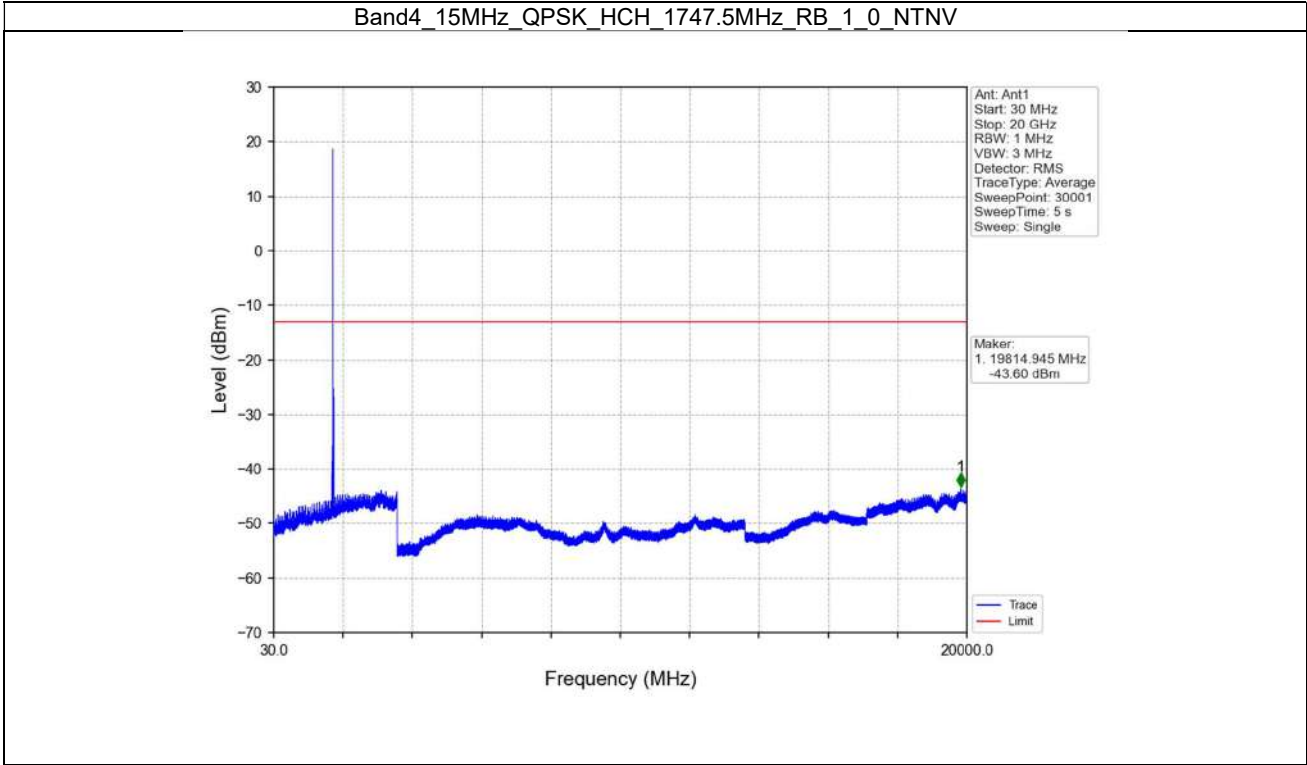
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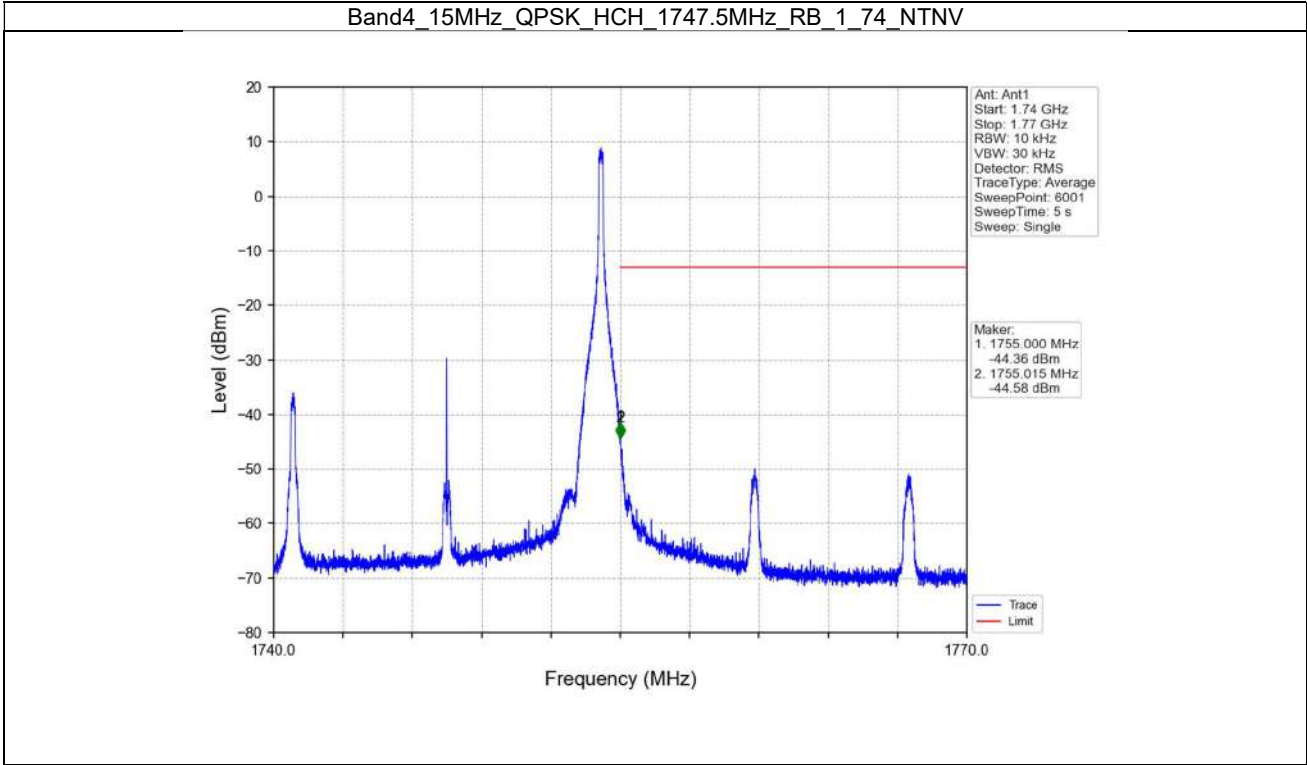
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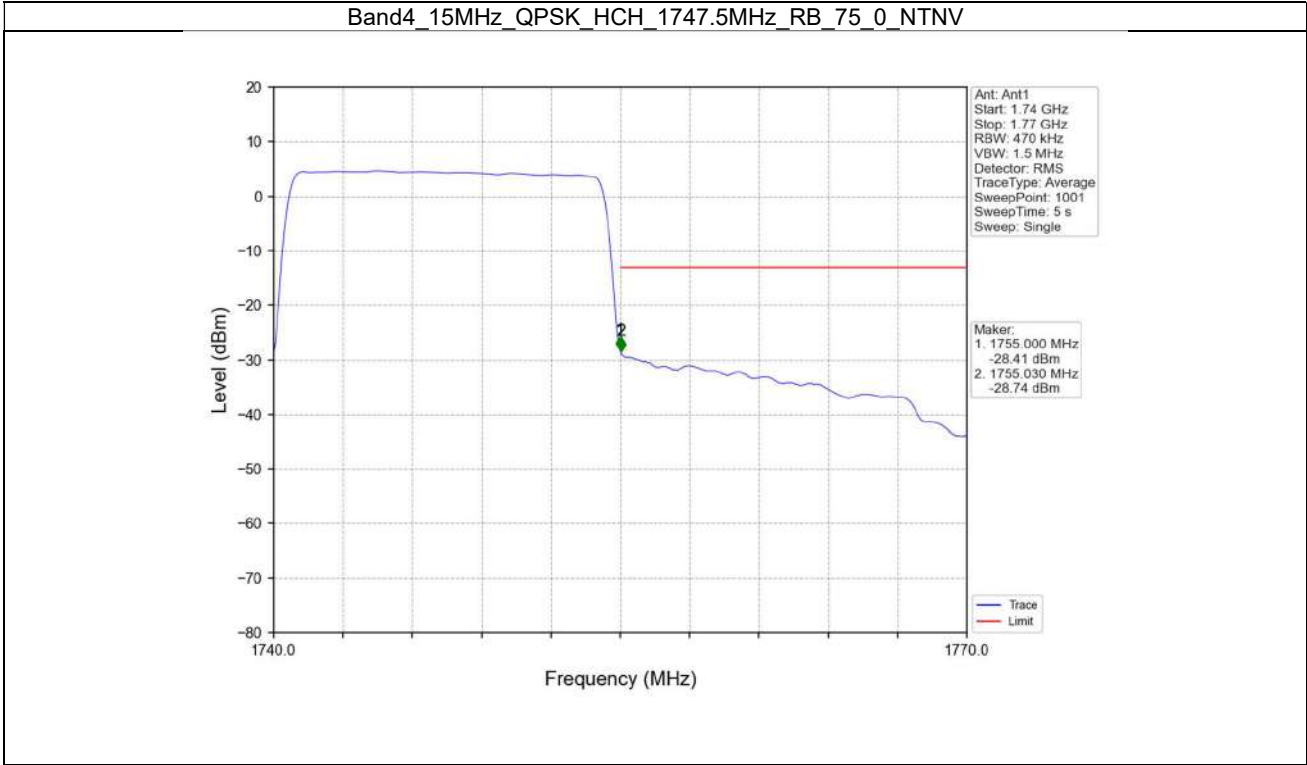
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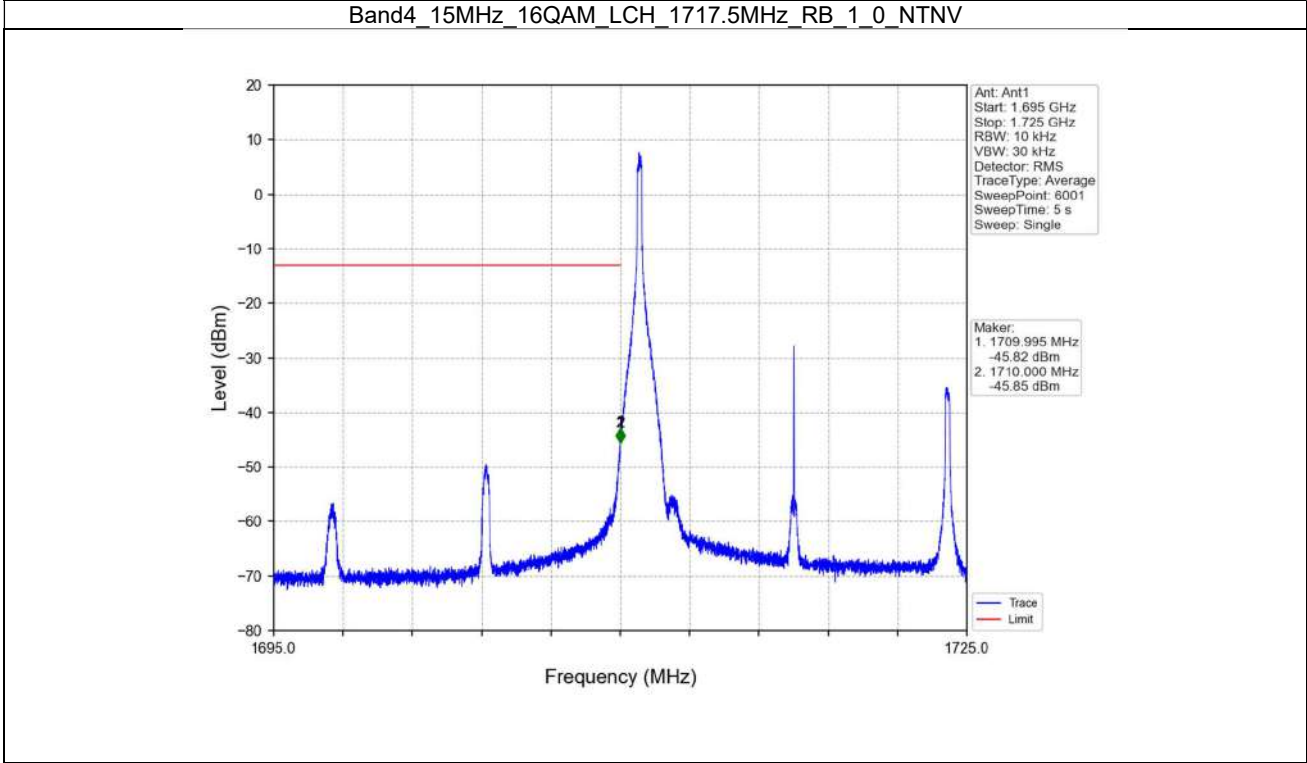


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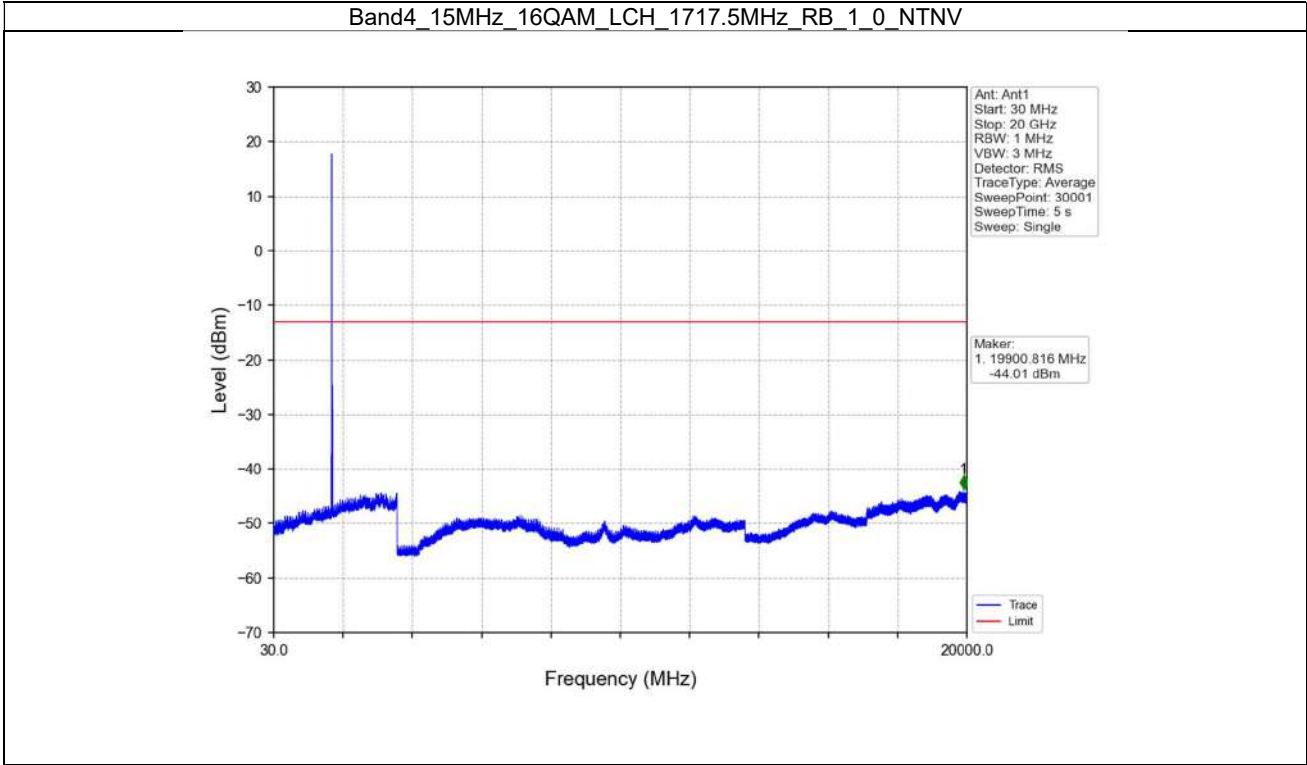
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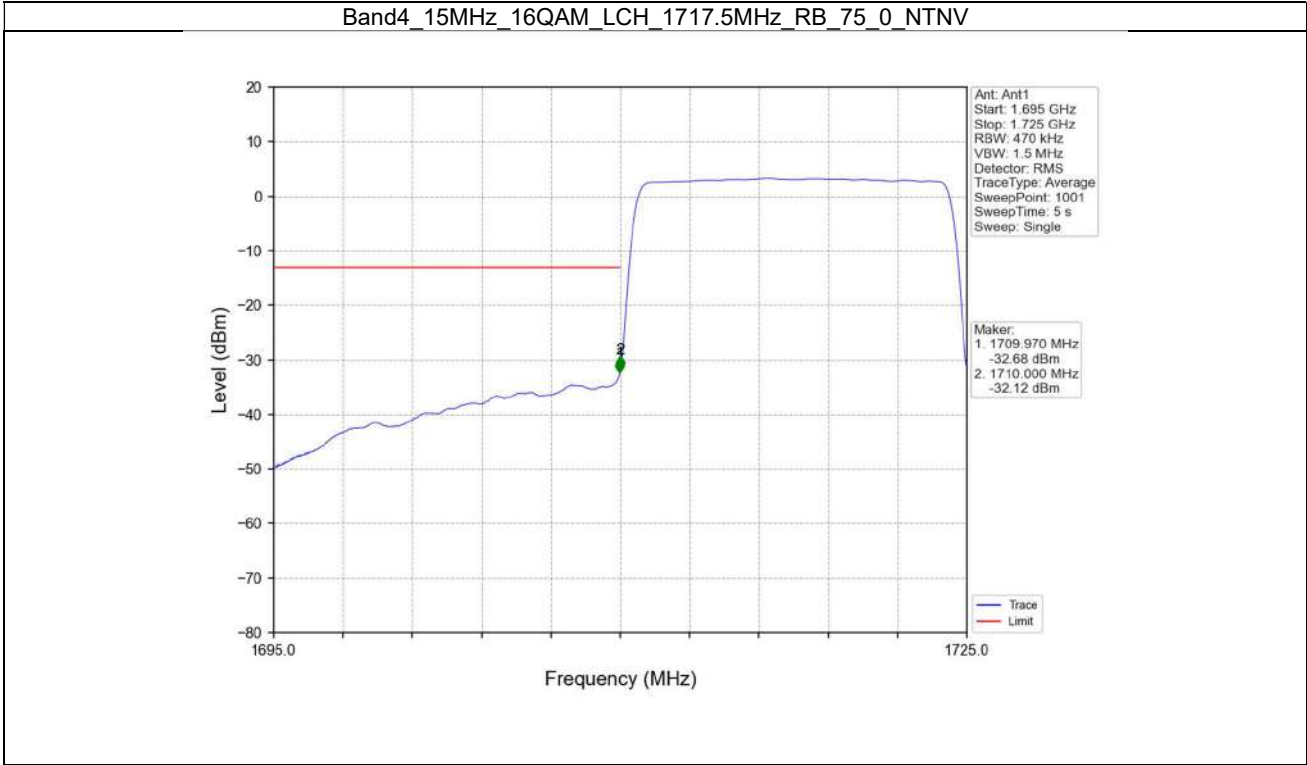
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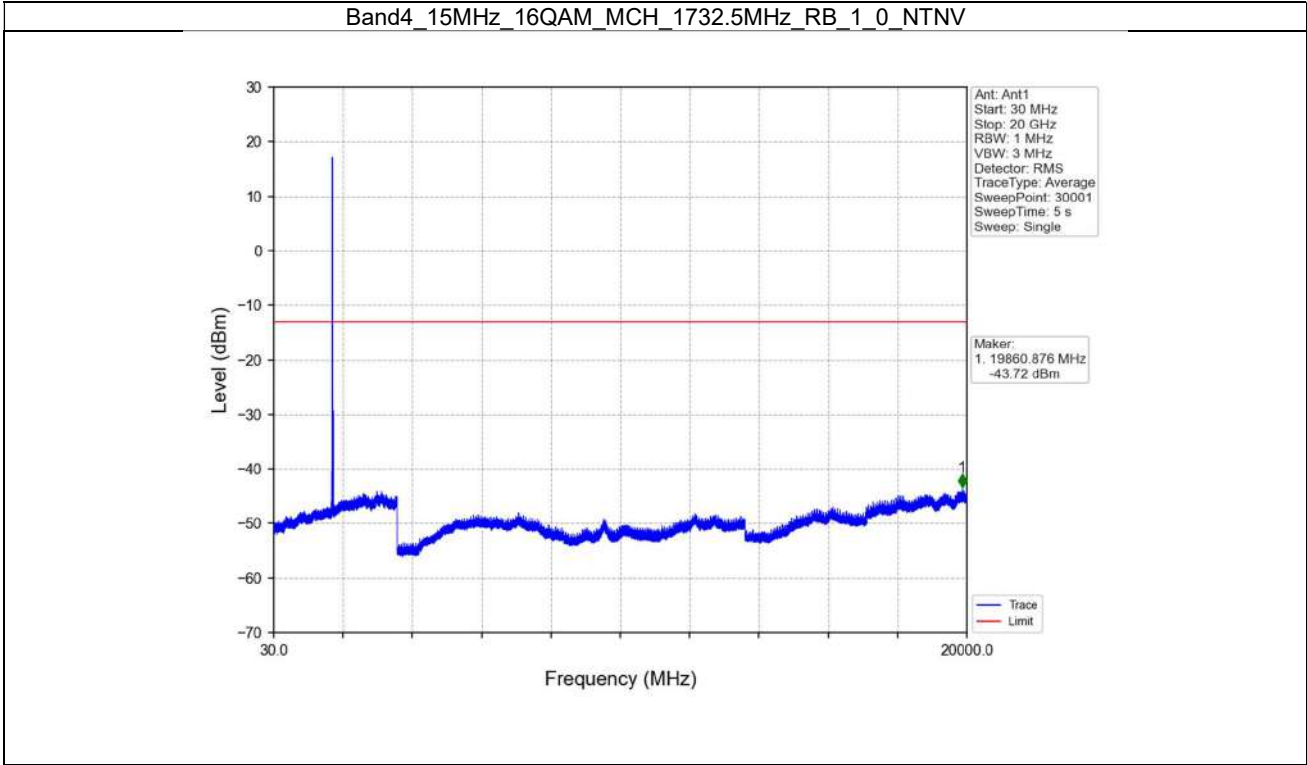
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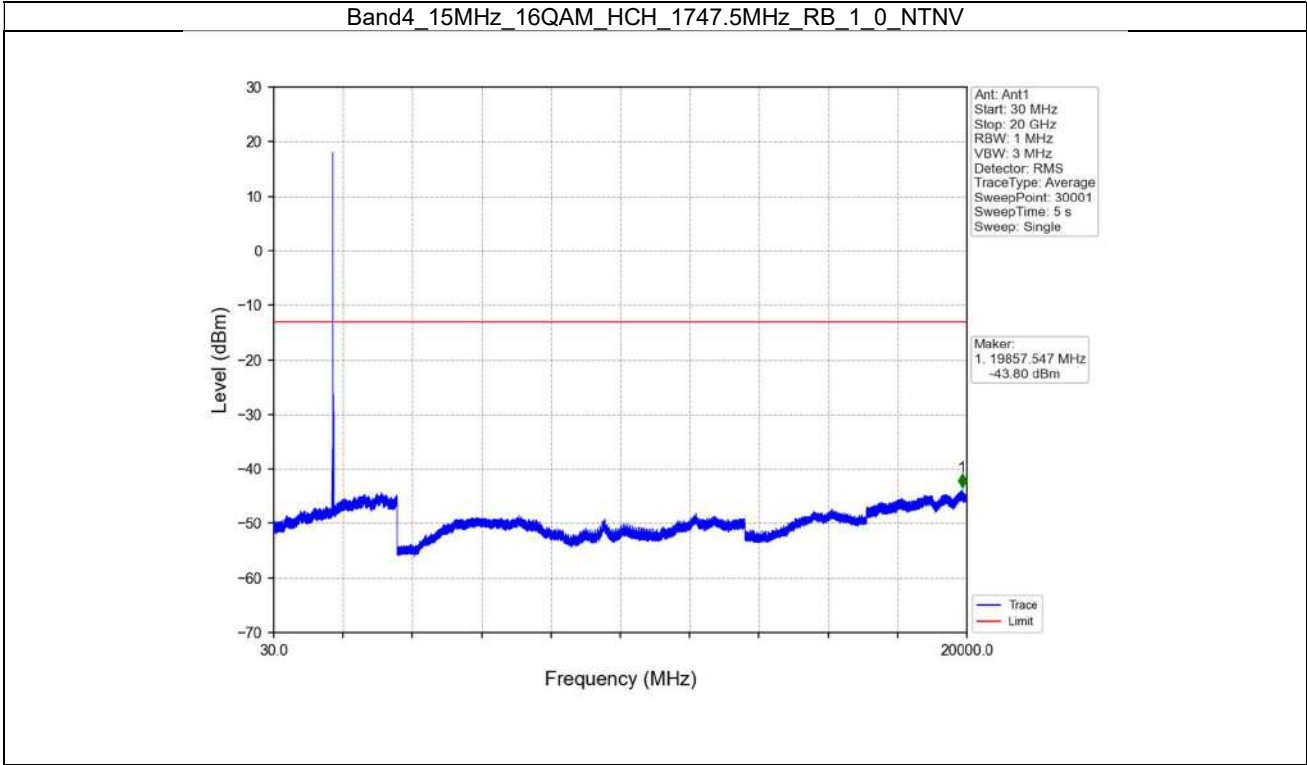
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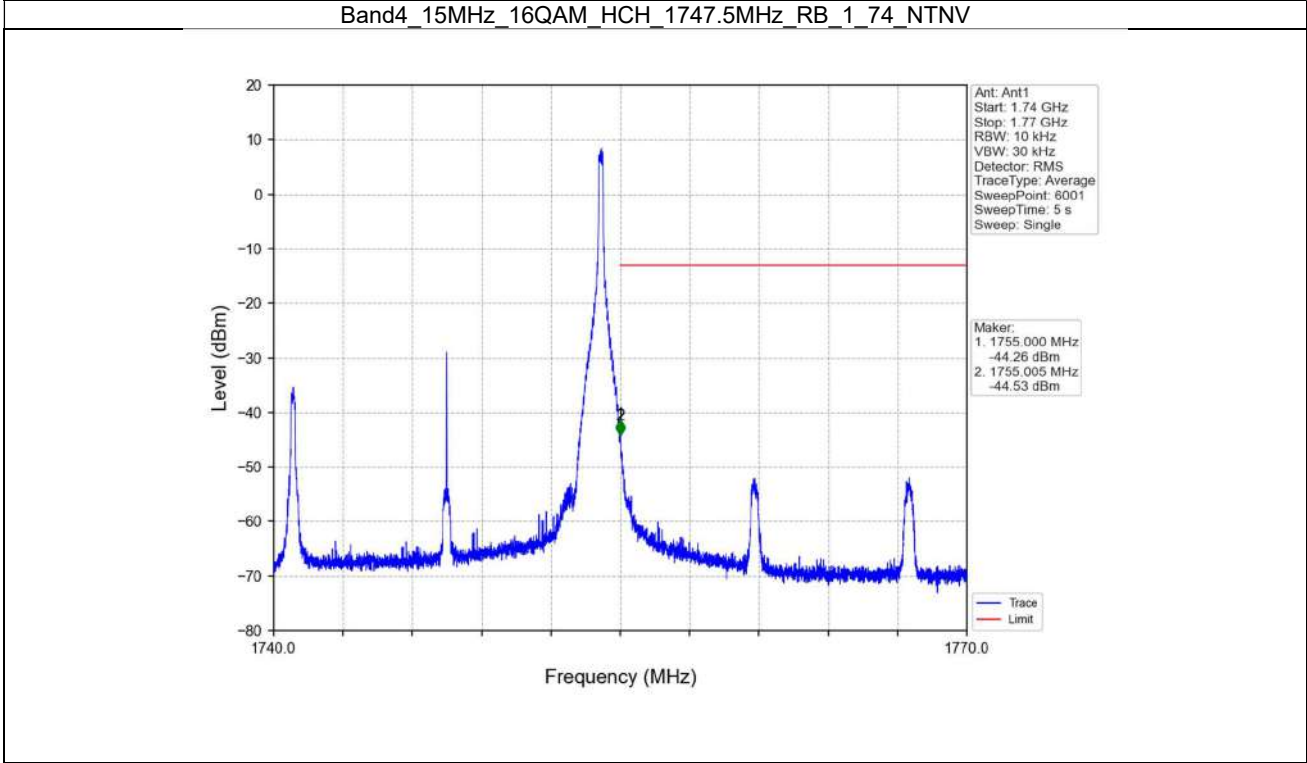


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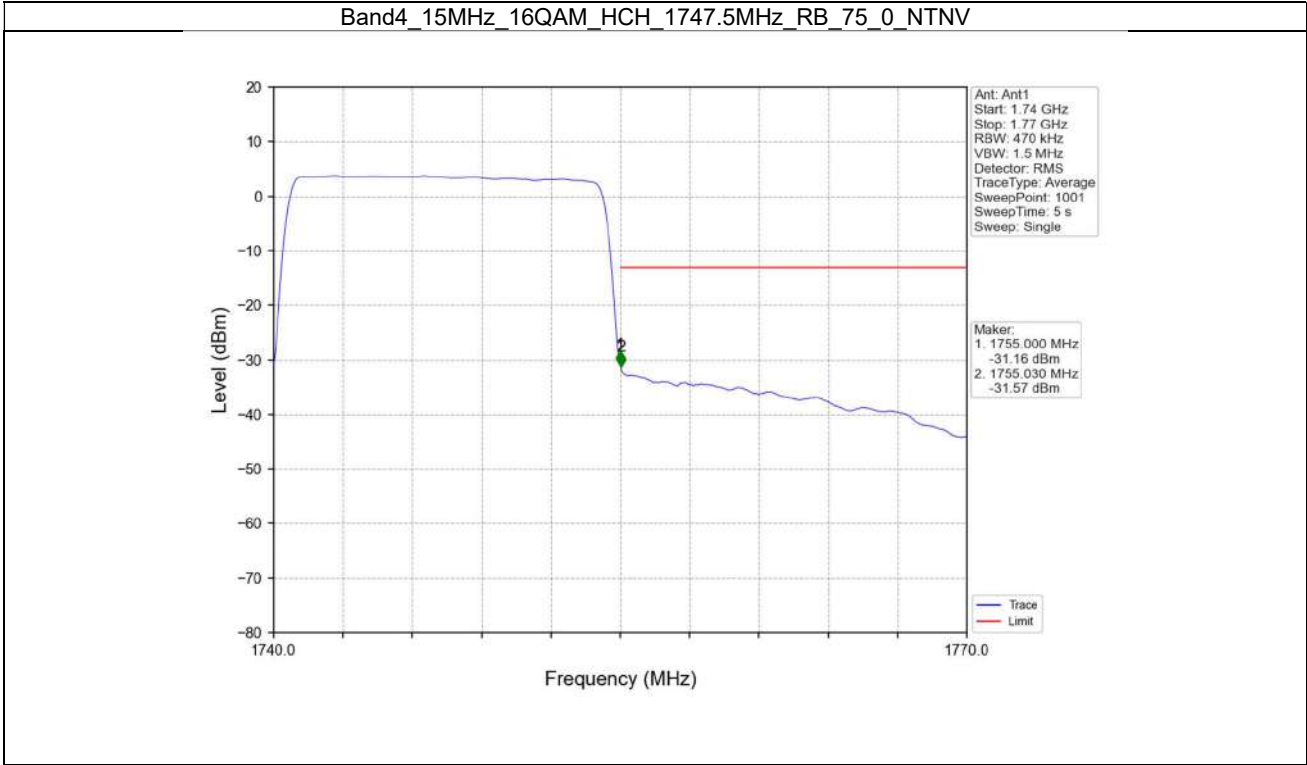
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_74_NTNV



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6.6 B4_20MHz

6.6.1 Test Result

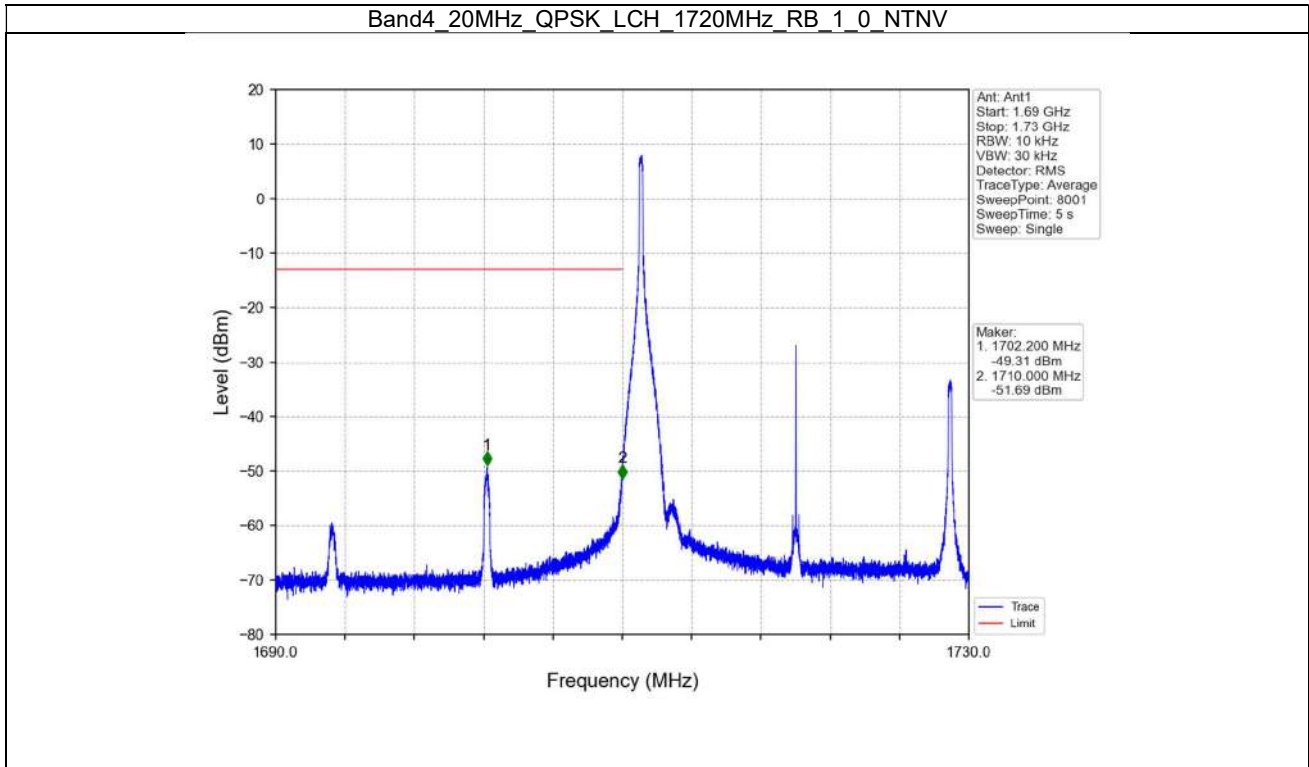
Band: 4 / Bandwidth: 20MHz / NTV							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1720	1	0	Refer To Test Graph		Pass	
		100	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
		1745	1	0	Refer To Test Graph		Pass
				99	Refer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



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6.6.2 Test Graph



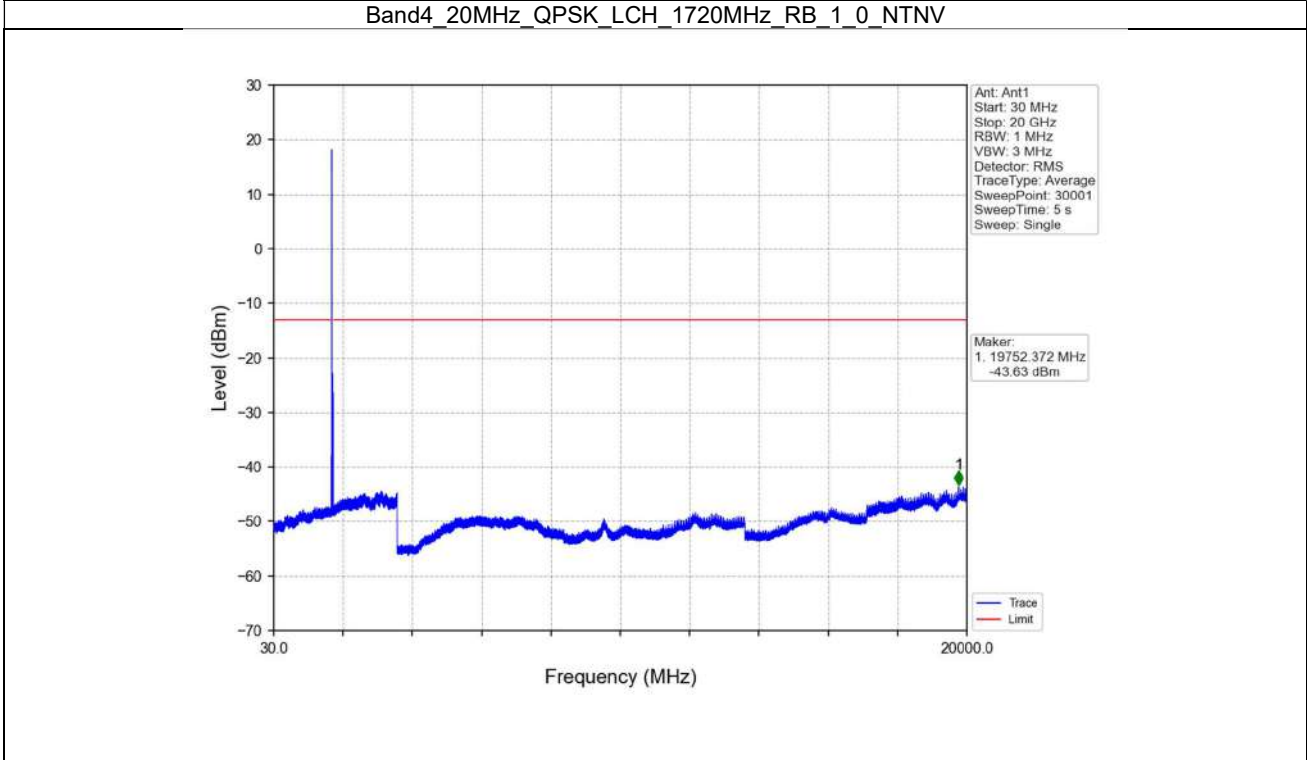
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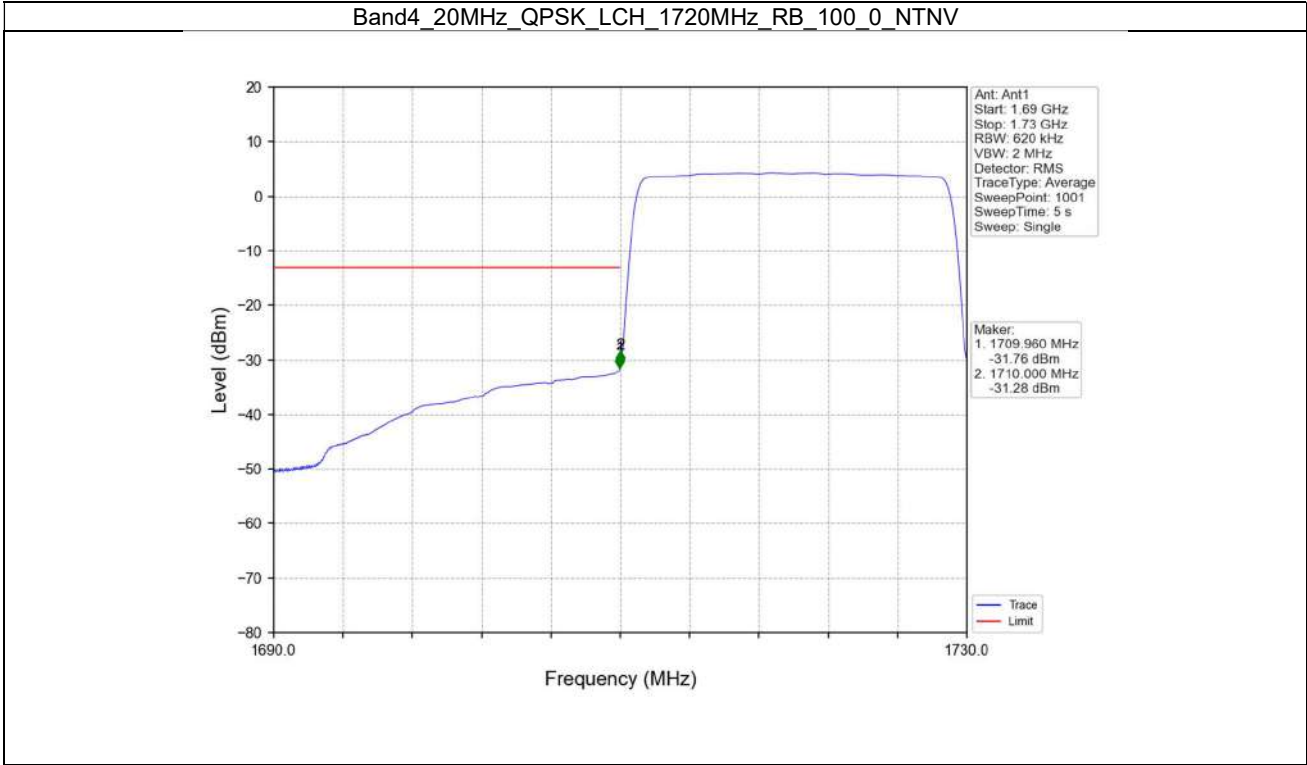
Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV



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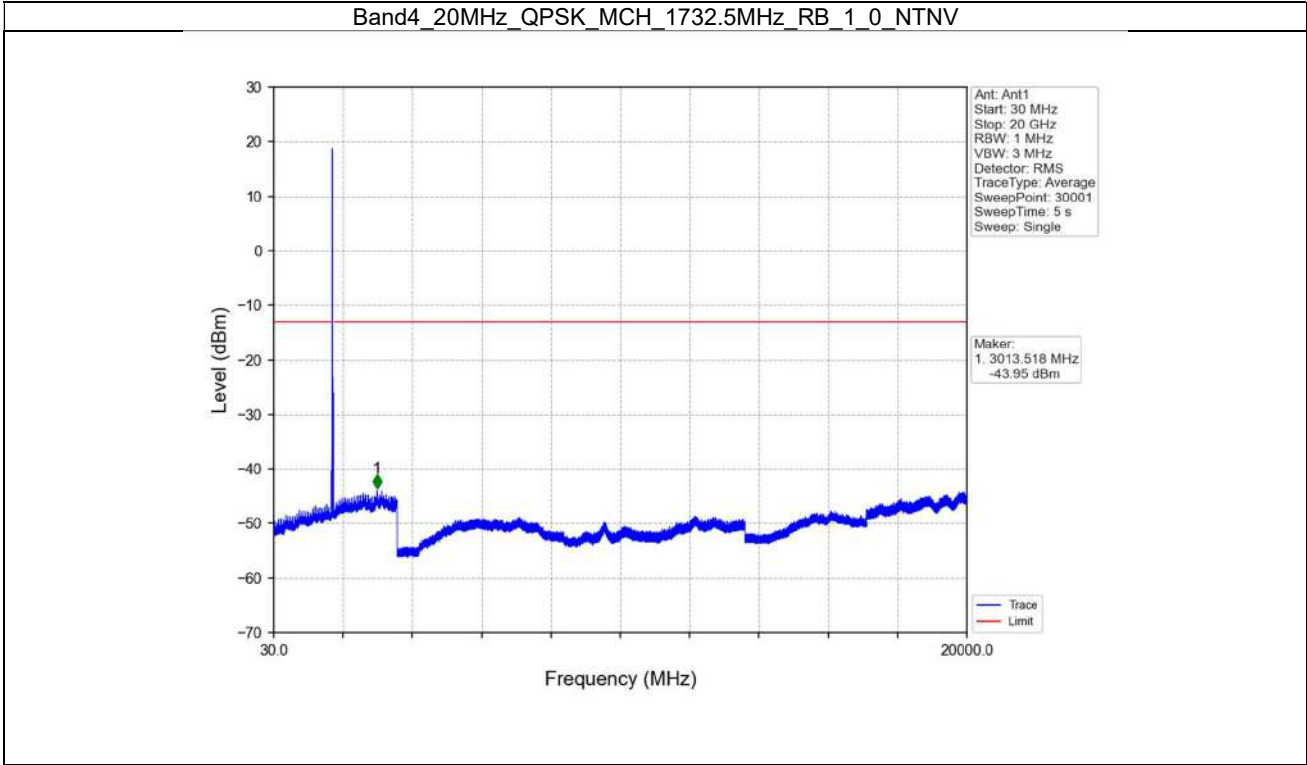
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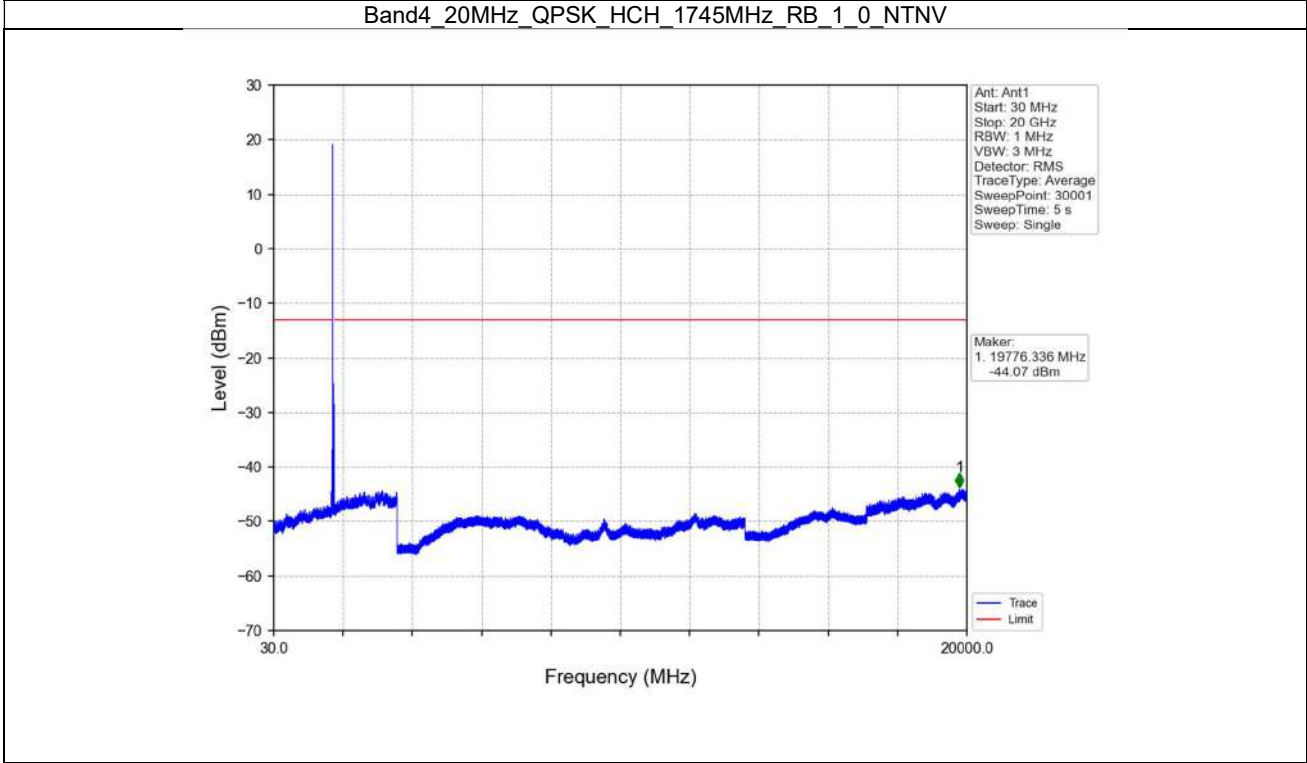


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Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV

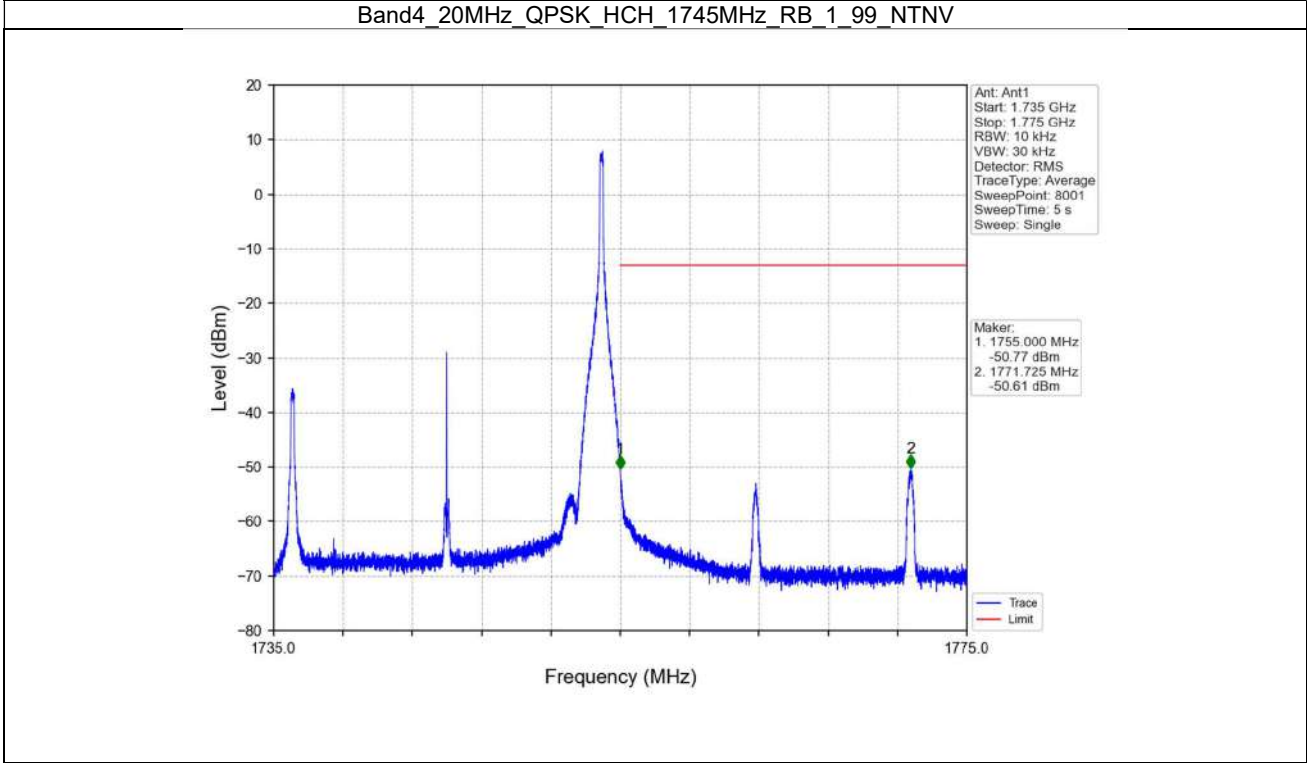


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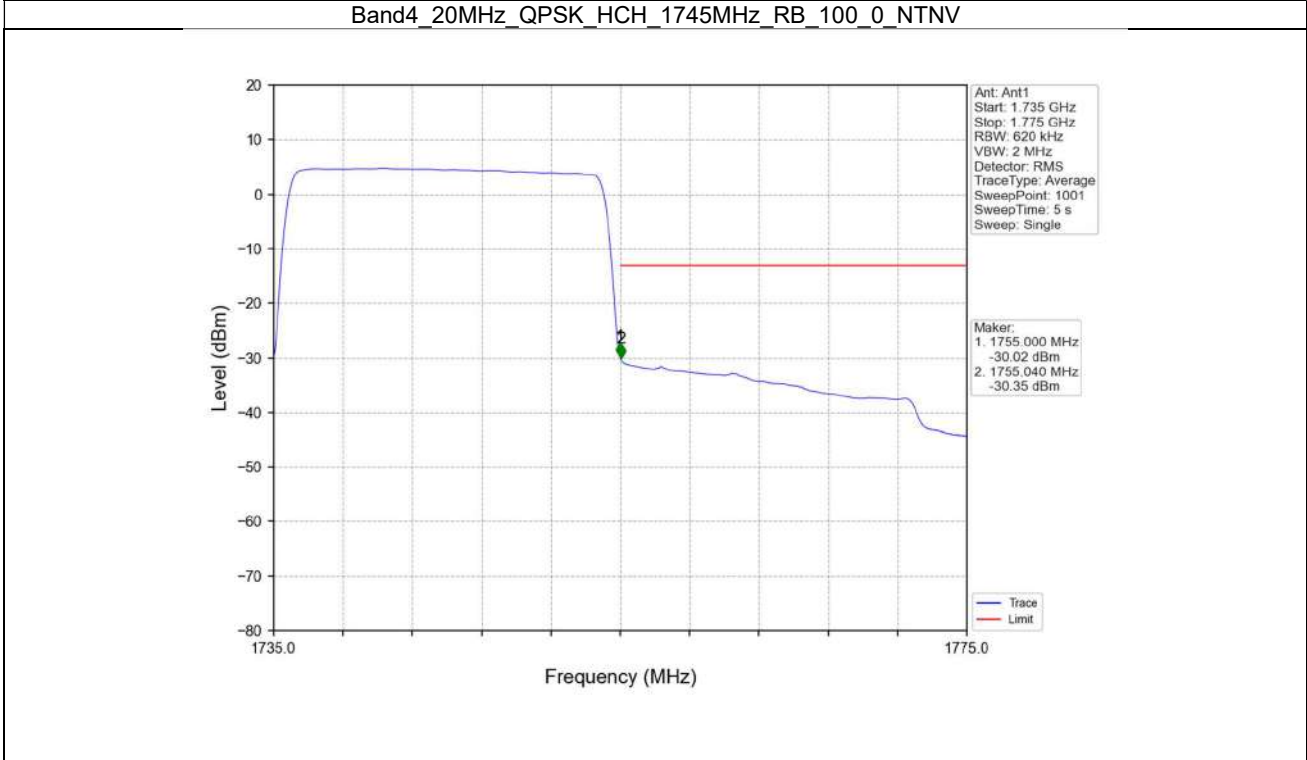


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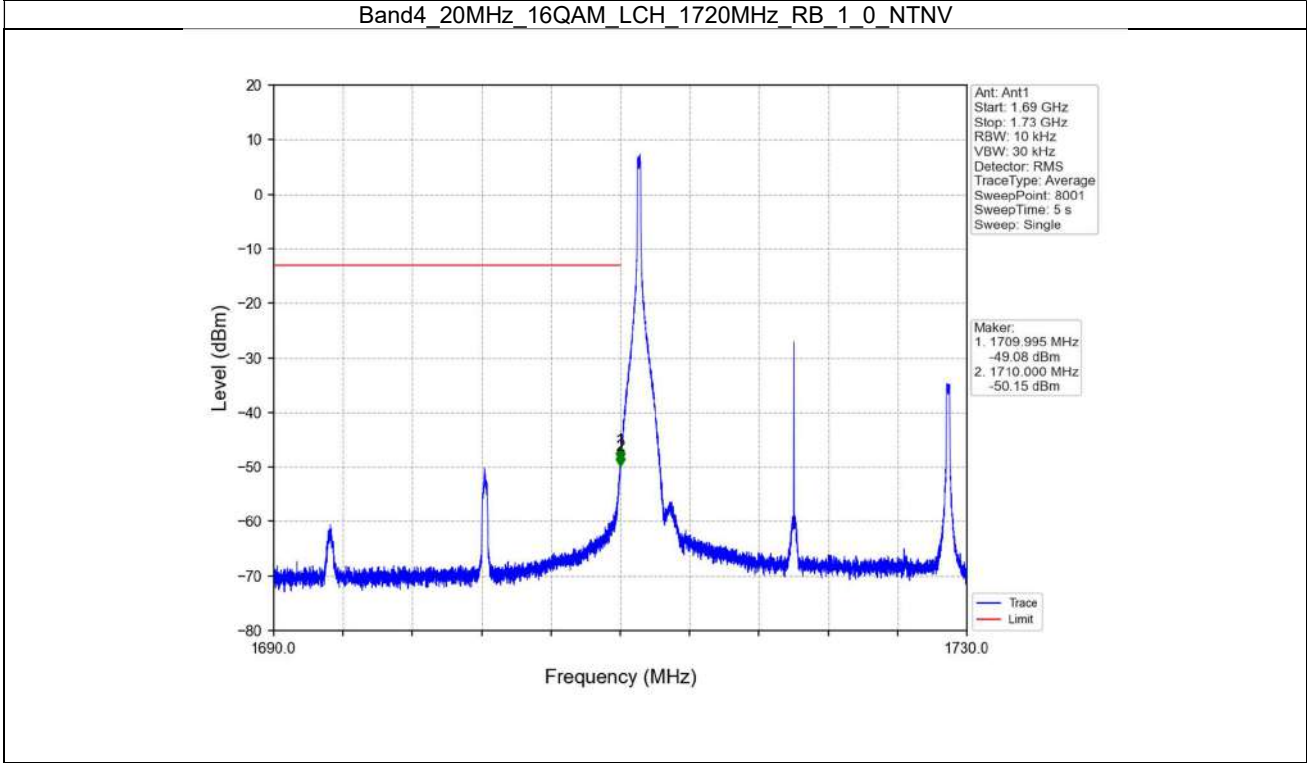


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Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV

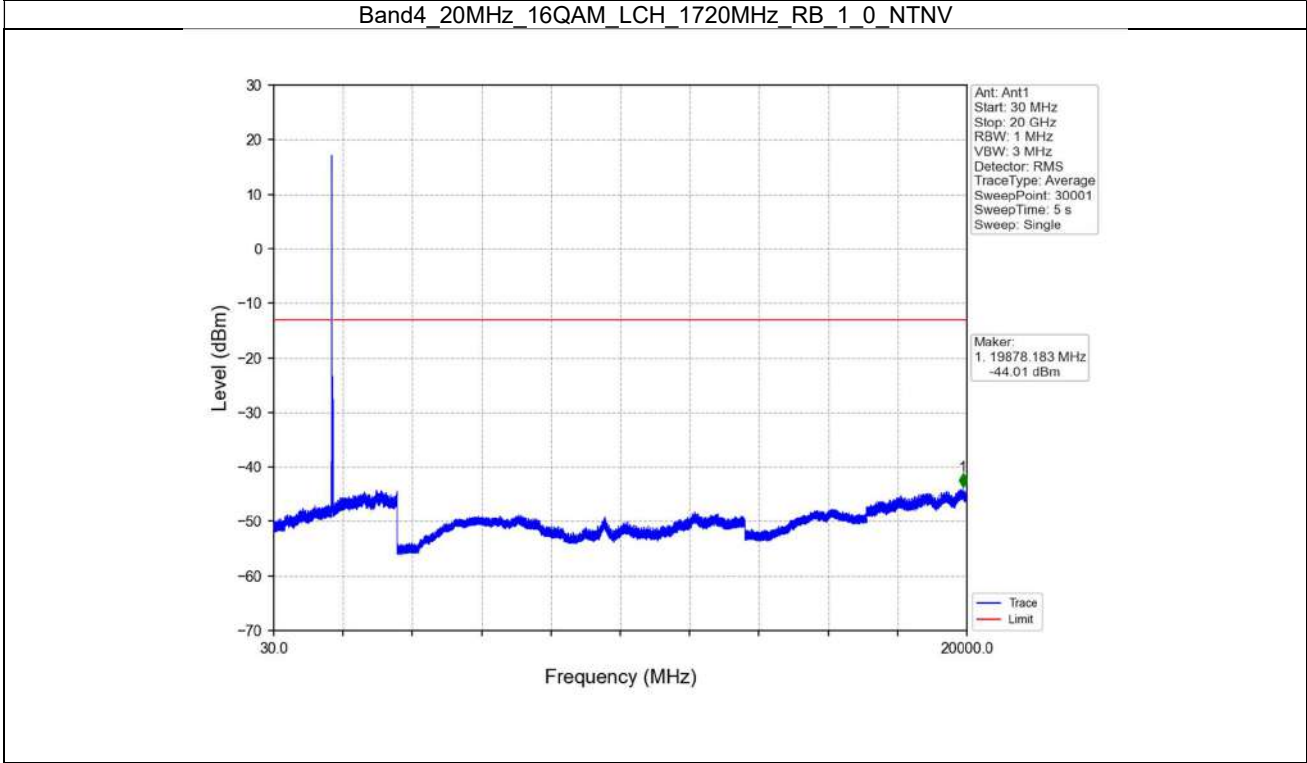


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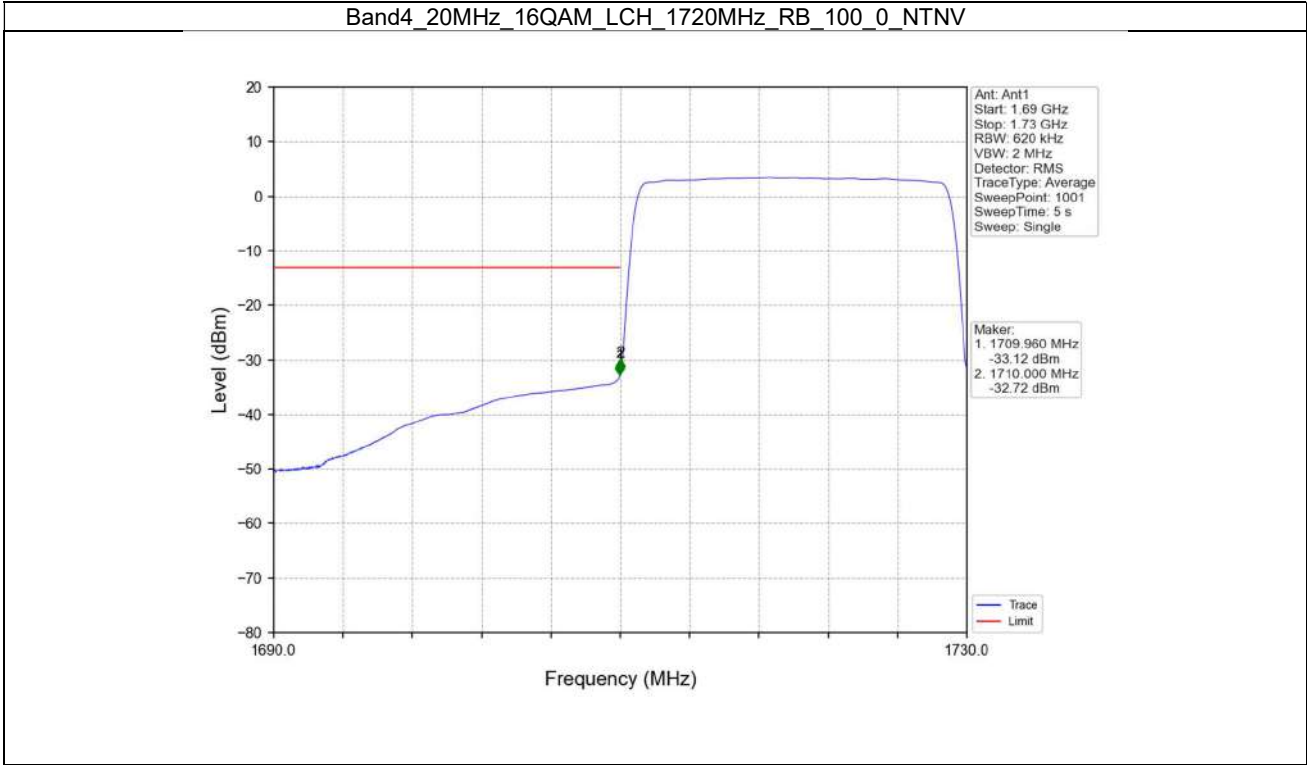
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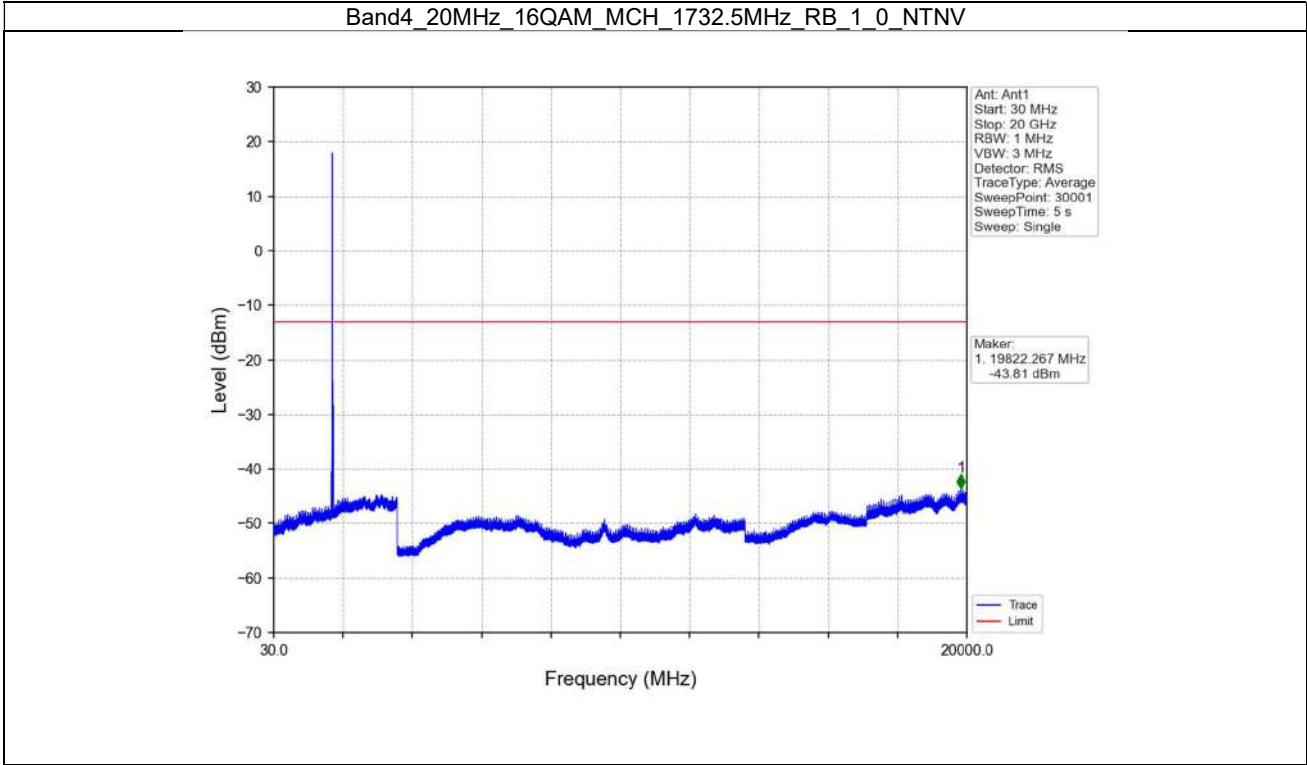
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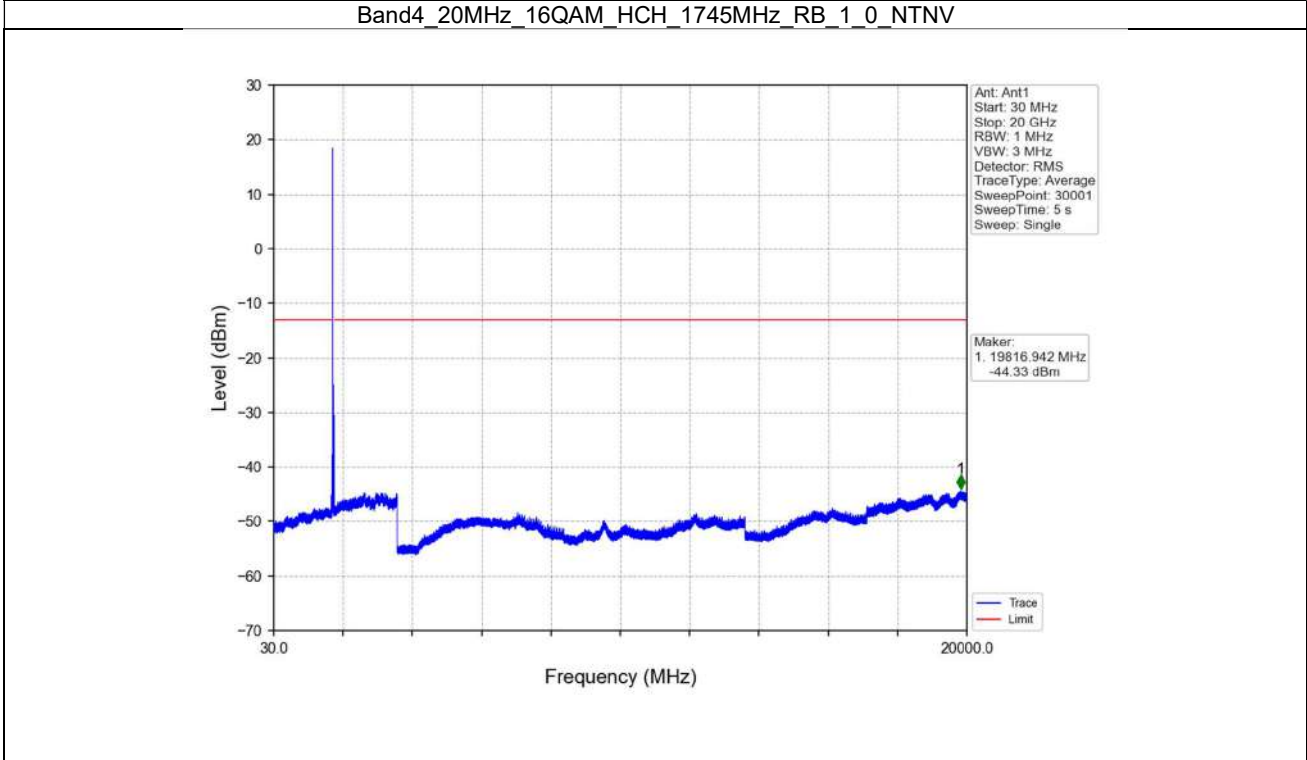


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Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV



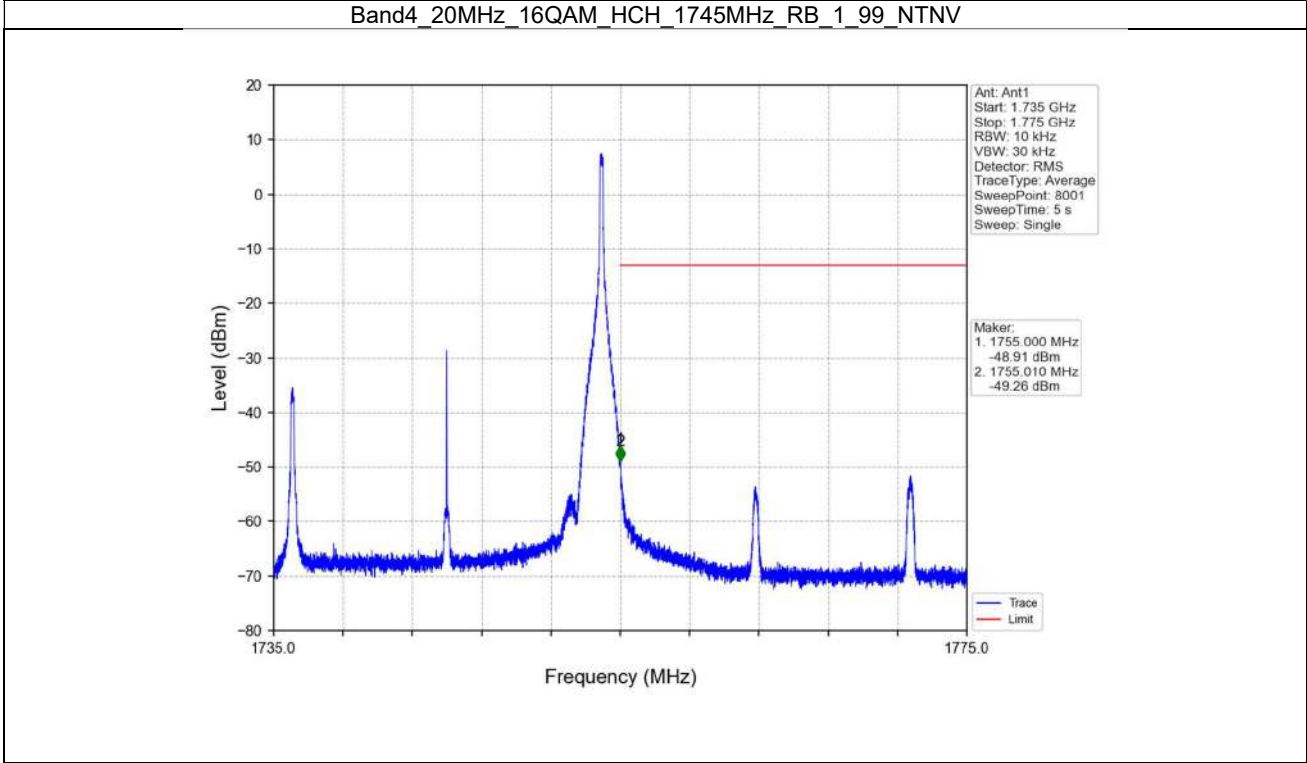
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Band4_20MHz_16QAM_HCH_1745MHz_RB_1_99_NTNV



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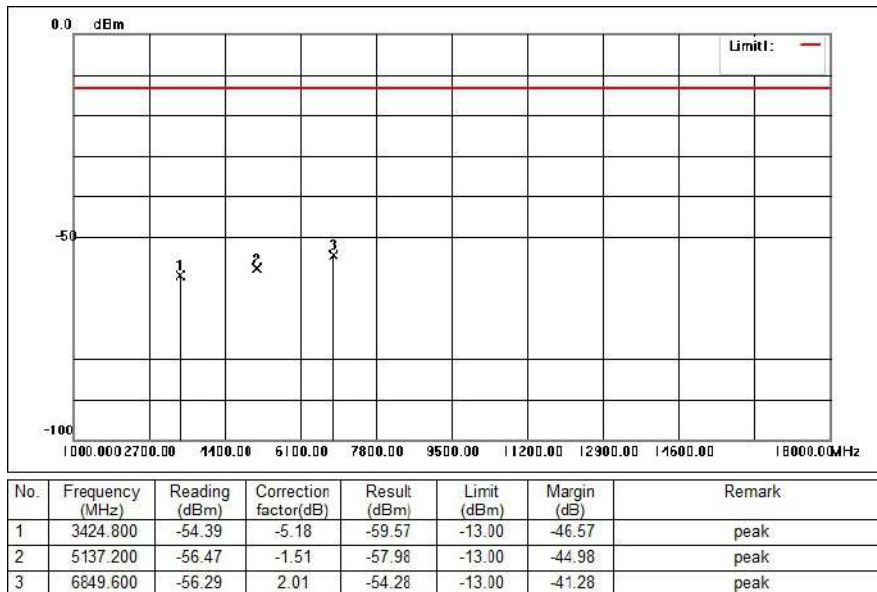
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7. Field Strength of Spurious Radiation

Up Antenna

LTE BAND 4-20MHz-Low channel

Polarization: H



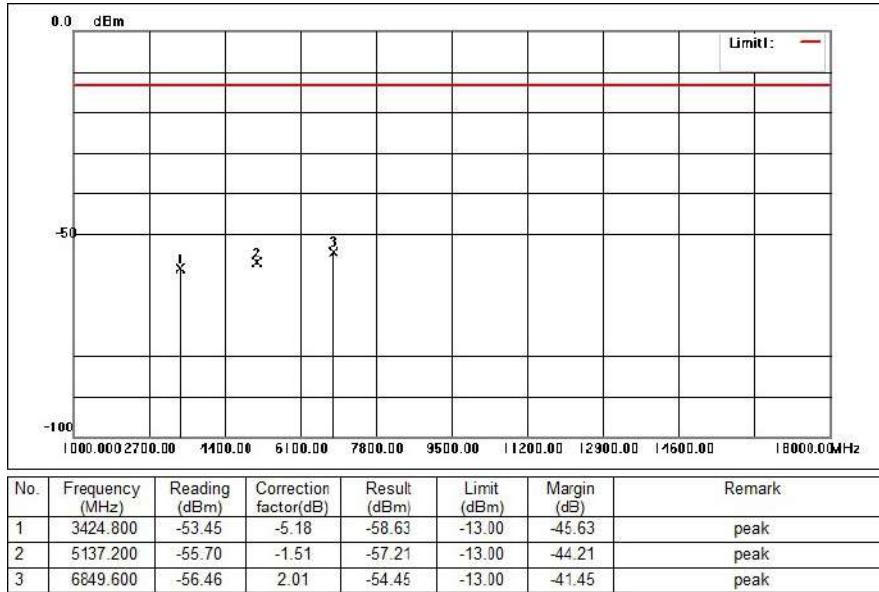
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Polarization: V



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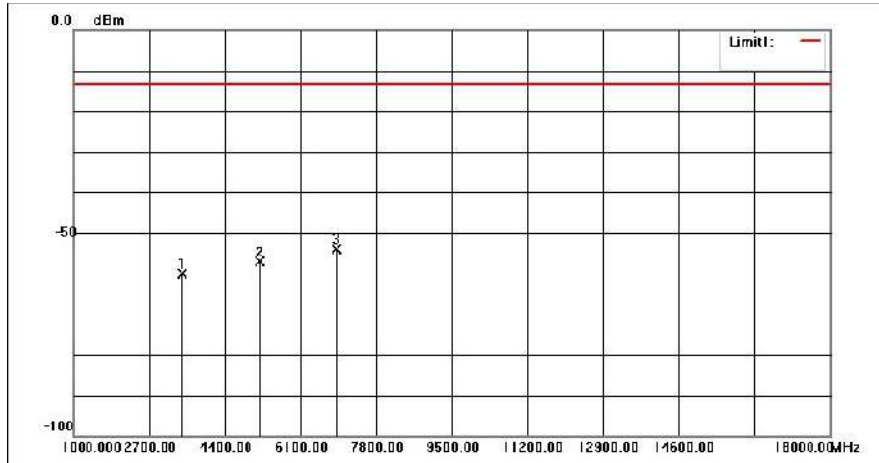
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LTE BAND 4-20MHz-Middle channel

Polarization: H



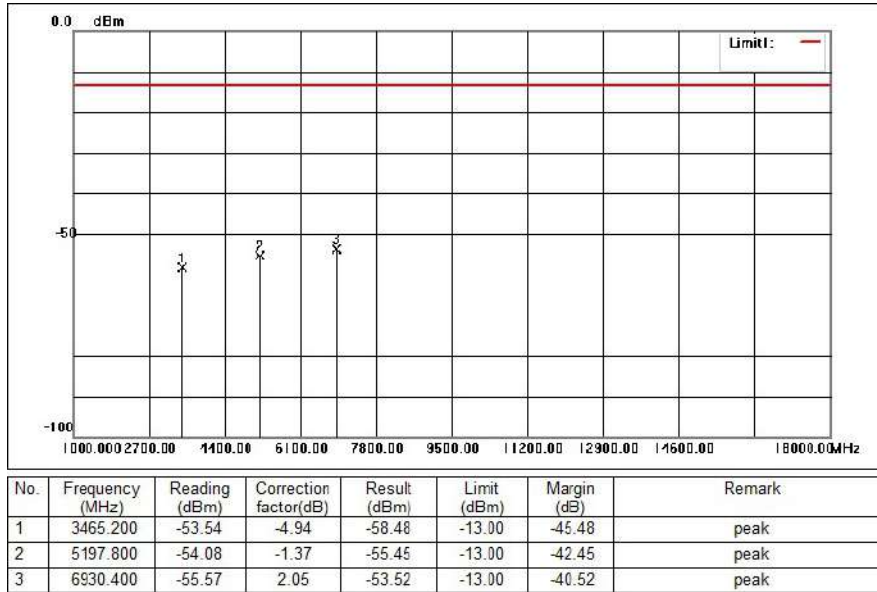
No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.200	-55.13	-4.94	-60.07	-13.00	-47.07	peak
2	5197.800	-55.78	-1.37	-57.15	-13.00	-44.15	peak
3	6930.400	-56.00	2.05	-53.95	-13.00	-40.95	peak



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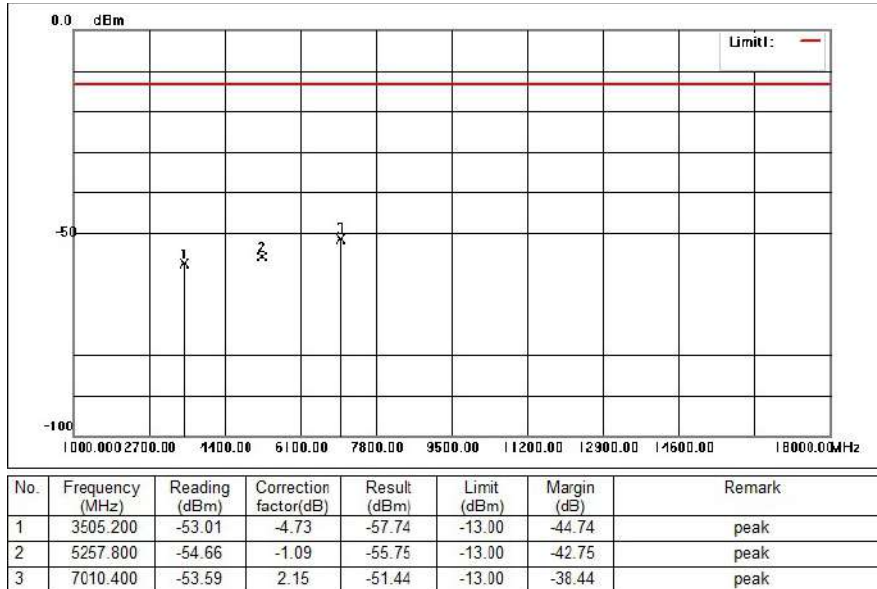
Polarization: V



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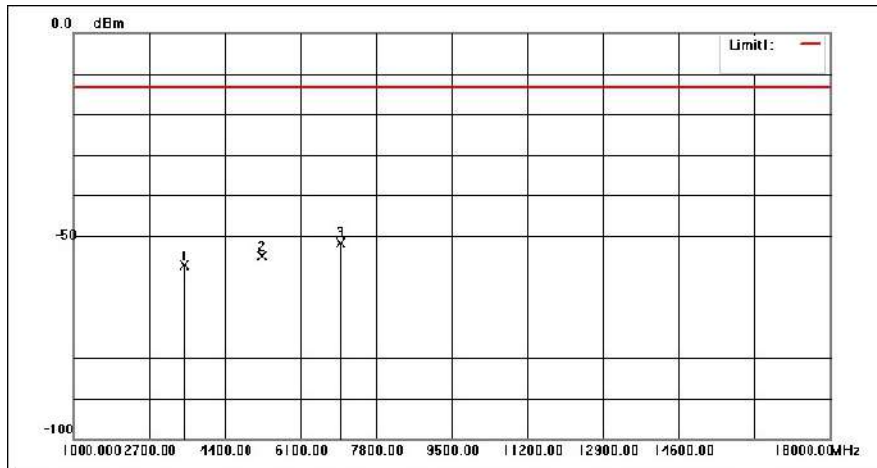
LTE BAND 4-20MHz-High channel
Polarization: H



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Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3505.200	-52.52	-4.73	-57.25	-13.00	-44.25	peak
2	5257.800	-53.67	-1.09	-54.76	-13.00	-41.76	peak
3	7010.400	-53.65	2.15	-51.50	-13.00	-38.50	peak



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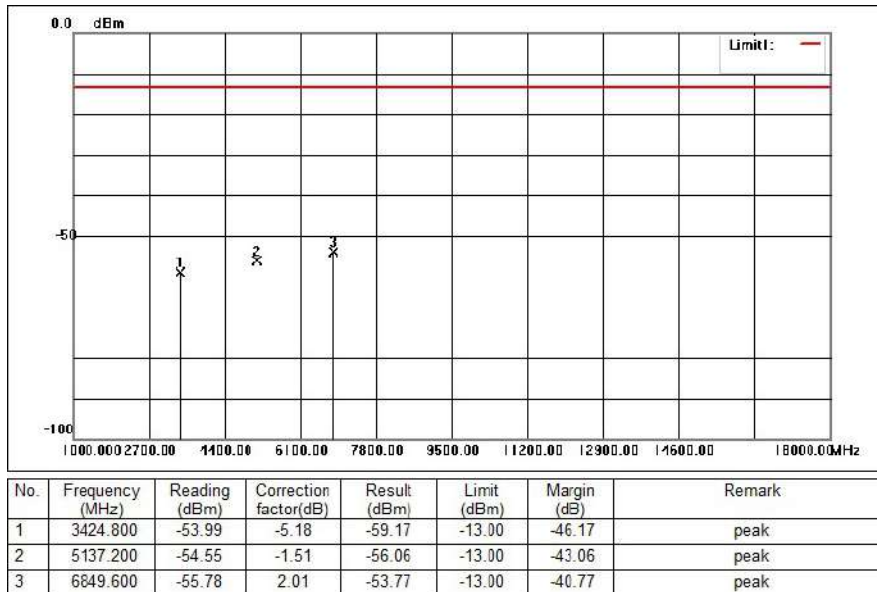
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Down Antenna

LTE BAND 4-20MHz-Low channel

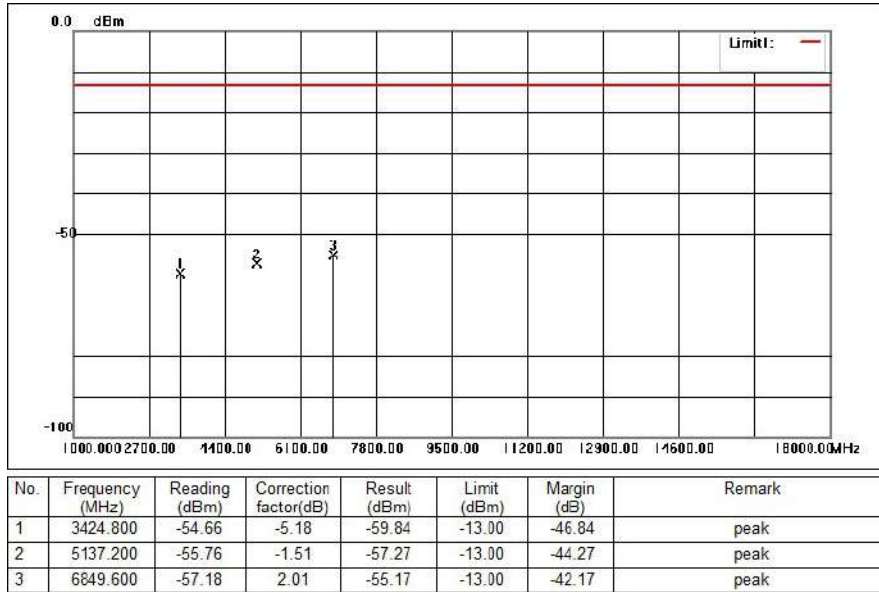
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Polarization: V



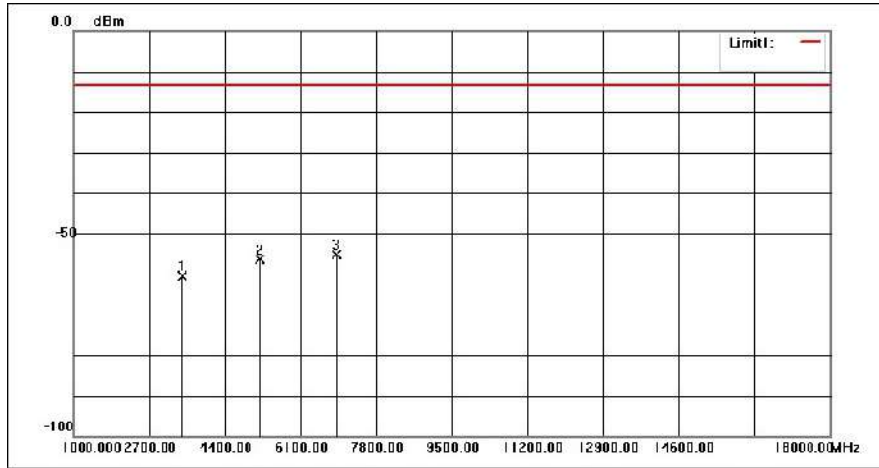
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LTE BAND 4-20MHz-Middle channel

Polarization: H



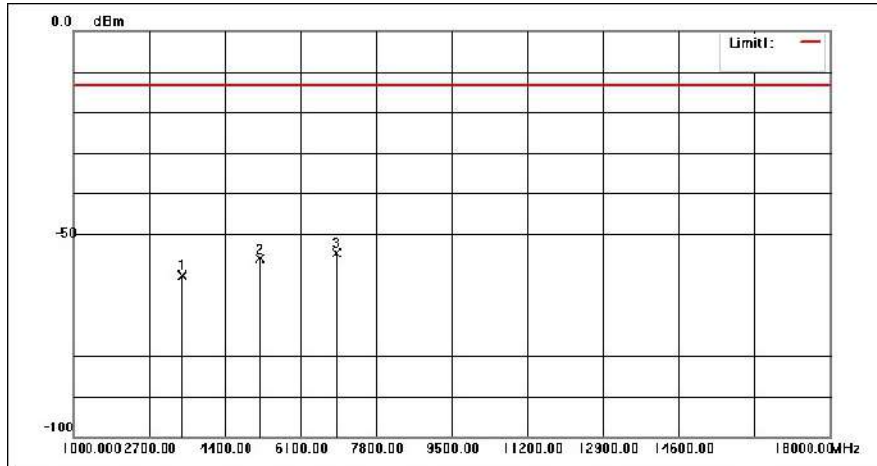
No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.200	-55.59	-4.94	-60.53	-13.00	-47.53	peak
2	5197.800	-54.93	-1.37	-56.30	-13.00	-43.30	peak
3	6930.400	-57.29	2.05	-55.24	-13.00	-42.24	peak



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Polarization: V



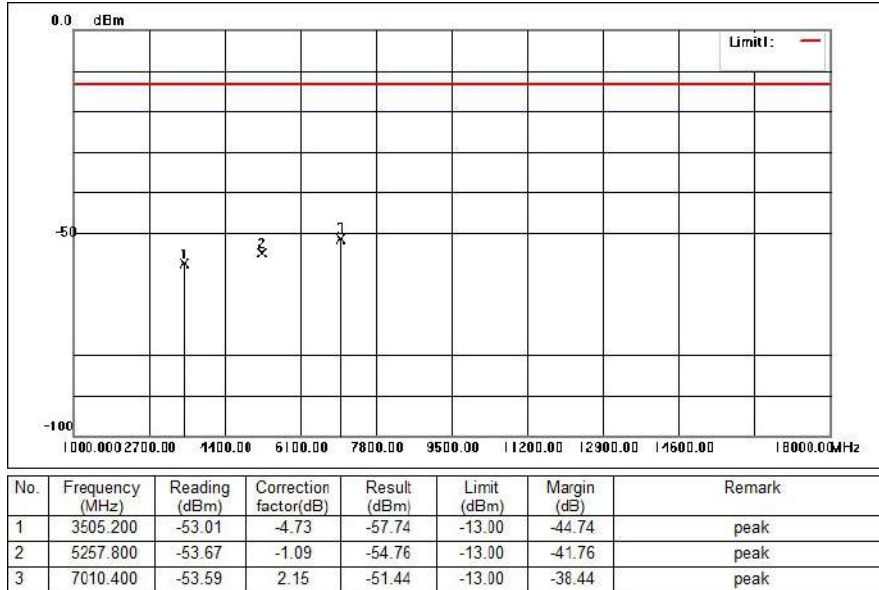
No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.200	-55.42	-4.94	-60.36	-13.00	-47.36	peak
2	5197.800	-54.70	-1.37	-56.07	-13.00	-43.07	peak
3	6930.400	-56.56	2.05	-54.51	-13.00	-41.51	peak



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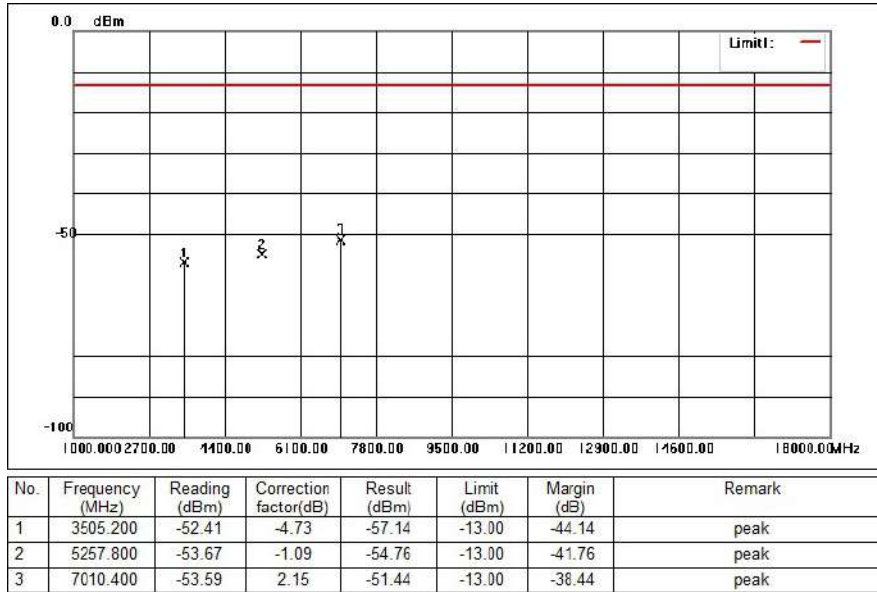
LTE BAND 4-20MHz-High channel
Polarization: H



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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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