



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

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# Appendix B.7

## LTE Band 4



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

Ant0

### 1.1 B4\_1.4MHz\_EIRP

#### 1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1710.7	1	0	23.61	-1.90	21.71	<=30	Pass		
			2	23.53	-1.90	21.63	<=30	Pass		
			5	23.60	-1.90	21.70	<=30	Pass		
		3	0	23.66	-1.90	21.76	<=30	Pass		
			2	23.58	-1.90	21.68	<=30	Pass		
			3	23.58	-1.90	21.68	<=30	Pass		
		6	0	23.16	-1.90	21.26	<=30	Pass		
		1732.5	1	0	23.76	-1.90	21.86	<=30	Pass	
				2	23.73	-1.90	21.83	<=30	Pass	
	5			23.79	-1.90	21.89	<=30	Pass		
	3		0	23.80	-1.90	21.90	<=30	Pass		
			2	23.76	-1.90	21.86	<=30	Pass		
			3	23.76	-1.90	21.86	<=30	Pass		
	6		0	23.34	-1.90	21.44	<=30	Pass		
	1754.3		1	0	23.85	-1.90	21.95	<=30	Pass	
				2	23.83	-1.90	21.93	<=30	Pass	
		5		23.85	-1.90	21.95	<=30	Pass		
		3	0	23.83	-1.90	21.93	<=30	Pass		
			2	23.84	-1.90	21.94	<=30	Pass		
			3	23.84	-1.90	21.94	<=30	Pass		
		6	0	23.31	-1.90	21.41	<=30	Pass		
		16QAM	1710.7	1	0	23.36	-1.90	21.46	<=30	Pass
					2	23.32	-1.90	21.42	<=30	Pass
	5				23.35	-1.90	21.45	<=30	Pass	
3	0			23.23	-1.90	21.33	<=30	Pass		
	2			23.24	-1.90	21.34	<=30	Pass		
	3			23.23	-1.90	21.33	<=30	Pass		
6	0			21.63	-1.90	19.73	<=30	Pass		
1732.5	1			0	23.54	-1.90	21.64	<=30	Pass	
				2	23.52	-1.90	21.62	<=30	Pass	
			5	23.54	-1.90	21.64	<=30	Pass		
	3		0	23.38	-1.90	21.48	<=30	Pass		
			2	23.37	-1.90	21.47	<=30	Pass		
			3	23.37	-1.90	21.47	<=30	Pass		
6	0		21.80	-1.90	19.90	<=30	Pass			
1754.3	1		0	23.40	-1.90	21.50	<=30	Pass		



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			2	23.36	-1.90	21.46	<=30	Pass		
			5	23.42	-1.90	21.52	<=30	Pass		
		3	0	23.36	-1.90	21.46	<=30	Pass		
			2	23.34	-1.90	21.44	<=30	Pass		
			3	23.37	-1.90	21.47	<=30	Pass		
		6	0	21.73	-1.90	19.83	<=30	Pass		
64QAM	1710.7	1	0	22.71	-1.90	20.81	<=30	Pass		
			2	22.69	-1.90	20.79	<=30	Pass		
			5	22.68	-1.90	20.78	<=30	Pass		
				3	0	22.88	-1.90	20.98	<=30	Pass
					2	22.86	-1.90	20.96	<=30	Pass
					3	22.86	-1.90	20.96	<=30	Pass
				6	0	21.84	-1.90	19.94	<=30	Pass
		1732.5	1	0	22.89	-1.90	20.99	<=30	Pass	
					2	22.89	-1.90	20.99	<=30	Pass
					5	22.88	-1.90	20.98	<=30	Pass
				3	0	23.01	-1.90	21.11	<=30	Pass
					2	23.00	-1.90	21.10	<=30	Pass
					3	23.01	-1.90	21.11	<=30	Pass
				6	0	22.00	-1.90	20.10	<=30	Pass
		1754.3	1	0	22.73	-1.90	20.83	<=30	Pass	
					2	22.67	-1.90	20.77	<=30	Pass
					5	22.77	-1.90	20.87	<=30	Pass
				3	0	22.77	-1.90	20.87	<=30	Pass
					2	22.77	-1.90	20.87	<=30	Pass
					3	22.77	-1.90	20.87	<=30	Pass
			6	0	21.89	-1.90	19.99	<=30	Pass	



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## 1.2 B4\_3MHz\_EIRP

### 1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTVN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1711.5	1	0	23.68	-1.90	21.78	<=30	Pass		
			7	23.64	-1.90	21.74	<=30	Pass		
			14	23.61	-1.90	21.71	<=30	Pass		
		8	0	23.12	-1.90	21.22	<=30	Pass		
			4	23.12	-1.90	21.22	<=30	Pass		
			7	23.10	-1.90	21.20	<=30	Pass		
		15	0	23.11	-1.90	21.21	<=30	Pass		
		1732.5	1	0	23.74	-1.90	21.84	<=30	Pass	
				7	23.74	-1.90	21.84	<=30	Pass	
	14			23.76	-1.90	21.86	<=30	Pass		
	8		0	23.30	-1.90	21.40	<=30	Pass		
			4	23.30	-1.90	21.40	<=30	Pass		
			7	23.32	-1.90	21.42	<=30	Pass		
	15		0	23.33	-1.90	21.43	<=30	Pass		
	1753.5		1	0	23.87	-1.90	21.97	<=30	Pass	
				7	23.82	-1.90	21.92	<=30	Pass	
		14		23.83	-1.90	21.93	<=30	Pass		
		8	0	23.35	-1.90	21.45	<=30	Pass		
			4	23.33	-1.90	21.43	<=30	Pass		
			7	23.33	-1.90	21.43	<=30	Pass		
		15	0	23.33	-1.90	21.43	<=30	Pass		
		16QAM	1711.5	1	0	23.55	-1.90	21.65	<=30	Pass
					7	23.50	-1.90	21.60	<=30	Pass
	14				23.49	-1.90	21.59	<=30	Pass	
8	0			21.79	-1.90	19.89	<=30	Pass		
	4			21.78	-1.90	19.88	<=30	Pass		
	7			21.77	-1.90	19.87	<=30	Pass		
15	0			21.73	-1.90	19.83	<=30	Pass		
1732.5	1			0	23.43	-1.90	21.53	<=30	Pass	
				7	23.44	-1.90	21.54	<=30	Pass	
			14	23.41	-1.90	21.51	<=30	Pass		
	8		0	21.79	-1.90	19.89	<=30	Pass		
			4	21.79	-1.90	19.89	<=30	Pass		
			7	21.81	-1.90	19.91	<=30	Pass		
	15		0	21.78	-1.90	19.88	<=30	Pass		
	1753.5		1	0	23.42	-1.90	21.52	<=30	Pass	
				7	23.42	-1.90	21.52	<=30	Pass	
14				23.38	-1.90	21.48	<=30	Pass		
8			0	21.91	-1.90	20.01	<=30	Pass		
			4	21.89	-1.90	19.99	<=30	Pass		
			7	21.90	-1.90	20.00	<=30	Pass		



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		15	0	21.87	-1.90	19.97	<=30	Pass	
64QAM	1711.5	1	0	22.88	-1.90	20.98	<=30	Pass	
			7	22.88	-1.90	20.98	<=30	Pass	
			14	22.84	-1.90	20.94	<=30	Pass	
		8	0	21.82	-1.90	19.92	<=30	Pass	
			4	21.82	-1.90	19.92	<=30	Pass	
			7	21.83	-1.90	19.93	<=30	Pass	
		15	0	21.63	-1.90	19.73	<=30	Pass	
		1732.5	1	0	22.88	-1.90	20.98	<=30	Pass
				7	22.88	-1.90	20.98	<=30	Pass
	14			22.89	-1.90	20.99	<=30	Pass	
	8		0	21.73	-1.90	19.83	<=30	Pass	
			4	21.73	-1.90	19.83	<=30	Pass	
			7	21.76	-1.90	19.86	<=30	Pass	
	15		0	21.98	-1.90	20.08	<=30	Pass	
	1753.5		1	0	22.76	-1.90	20.86	<=30	Pass
				7	22.74	-1.90	20.84	<=30	Pass
		14		22.70	-1.90	20.80	<=30	Pass	
		8	0	21.86	-1.90	19.96	<=30	Pass	
			4	21.83	-1.90	19.93	<=30	Pass	
			7	21.84	-1.90	19.94	<=30	Pass	
		15	0	21.88	-1.90	19.98	<=30	Pass	



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Shenzhen Branch, Wireless Laboratory

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## 1.3 B4\_5MHz\_EIRP

### 1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTVN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1712.5	1	0	23.81	-1.90	21.91	<=30	Pass		
			13	23.75	-1.90	21.85	<=30	Pass		
			24	23.75	-1.90	21.85	<=30	Pass		
		12	0	23.17	-1.90	21.27	<=30	Pass		
			6	23.14	-1.90	21.24	<=30	Pass		
			13	23.12	-1.90	21.22	<=30	Pass		
		25	0	23.18	-1.90	21.28	<=30	Pass		
		1732.5	1	0	23.85	-1.90	21.95	<=30	Pass	
				13	23.89	-1.90	21.99	<=30	Pass	
	24			23.92	-1.90	22.02	<=30	Pass		
	12		0	23.33	-1.90	21.43	<=30	Pass		
			6	23.32	-1.90	21.42	<=30	Pass		
			13	23.35	-1.90	21.45	<=30	Pass		
	25		0	23.38	-1.90	21.48	<=30	Pass		
	1752.5		1	0	23.90	-1.90	22.00	<=30	Pass	
				13	23.94	-1.90	22.04	<=30	Pass	
		24		23.92	-1.90	22.02	<=30	Pass		
		12	0	23.36	-1.90	21.46	<=30	Pass		
			6	23.37	-1.90	21.47	<=30	Pass		
			13	23.39	-1.90	21.49	<=30	Pass		
		25	0	23.43	-1.90	21.53	<=30	Pass		
		16QAM	1712.5	1	0	23.08	-1.90	21.18	<=30	Pass
					13	23.06	-1.90	21.16	<=30	Pass
	24				22.97	-1.90	21.07	<=30	Pass	
12	0			21.70	-1.90	19.80	<=30	Pass		
	6			21.69	-1.90	19.79	<=30	Pass		
	13			21.66	-1.90	19.76	<=30	Pass		
25	0			21.71	-1.90	19.81	<=30	Pass		
1732.5	1			0	23.59	-1.90	21.69	<=30	Pass	
				13	23.59	-1.90	21.69	<=30	Pass	
			24	23.57	-1.90	21.67	<=30	Pass		
	12		0	21.87	-1.90	19.97	<=30	Pass		
			6	21.89	-1.90	19.99	<=30	Pass		
			13	21.90	-1.90	20.00	<=30	Pass		
	25		0	21.88	-1.90	19.98	<=30	Pass		
	1752.5		1	0	23.44	-1.90	21.54	<=30	Pass	
				13	23.45	-1.90	21.55	<=30	Pass	
24				23.45	-1.90	21.55	<=30	Pass		
12			0	21.89	-1.90	19.99	<=30	Pass		
			6	21.89	-1.90	19.99	<=30	Pass		
			13	21.88	-1.90	19.98	<=30	Pass		



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		25	0	21.90	-1.90	20.00	<=30	Pass	
64QAM	1712.5	1	0	22.68	-1.90	20.78	<=30	Pass	
			13	22.65	-1.90	20.75	<=30	Pass	
			24	22.65	-1.90	20.75	<=30	Pass	
			0	21.67	-1.90	19.77	<=30	Pass	
		12	6	21.65	-1.90	19.75	<=30	Pass	
			13	21.63	-1.90	19.73	<=30	Pass	
			25	0	21.70	-1.90	19.80	<=30	Pass
		1732.5	1	0	23.01	-1.90	21.11	<=30	Pass
				13	23.00	-1.90	21.10	<=30	Pass
	24			22.99	-1.90	21.09	<=30	Pass	
	0			21.89	-1.90	19.99	<=30	Pass	
	12		6	21.87	-1.90	19.97	<=30	Pass	
			13	21.90	-1.90	20.00	<=30	Pass	
			25	0	21.89	-1.90	19.99	<=30	Pass
	1752.5		1	0	23.07	-1.90	21.17	<=30	Pass
				13	23.13	-1.90	21.23	<=30	Pass
		24		23.12	-1.90	21.22	<=30	Pass	
		0		22.04	-1.90	20.14	<=30	Pass	
		12	6	22.05	-1.90	20.15	<=30	Pass	
			13	22.02	-1.90	20.12	<=30	Pass	
			25	0	21.92	-1.90	20.02	<=30	Pass



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## 1.4 B4\_10MHz\_EIRP

### 1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1715	1	0	23.74	-1.90	21.84	<=30	Pass	
			25	23.66	-1.90	21.76	<=30	Pass	
			49	23.67	-1.90	21.77	<=30	Pass	
		25	0	23.18	-1.90	21.28	<=30	Pass	
			13	23.15	-1.90	21.25	<=30	Pass	
			25	23.17	-1.90	21.27	<=30	Pass	
		50	0	23.16	-1.90	21.26	<=30	Pass	
			1	0	23.78	-1.90	21.88	<=30	Pass
				25	23.78	-1.90	21.88	<=30	Pass
	49	23.85		-1.90	21.95	<=30	Pass		
	1732.5	25	0	23.32	-1.90	21.42	<=30	Pass	
			13	23.34	-1.90	21.44	<=30	Pass	
			25	23.37	-1.90	21.47	<=30	Pass	
		50	0	23.37	-1.90	21.47	<=30	Pass	
			1	0	23.95	-1.90	22.05	<=30	Pass
				25	23.82	-1.90	21.92	<=30	Pass
	49	23.92		-1.90	22.02	<=30	Pass		
	1750	25	0	23.39	-1.90	21.49	<=30	Pass	
			13	23.34	-1.90	21.44	<=30	Pass	
			25	23.37	-1.90	21.47	<=30	Pass	
		50	0	23.36	-1.90	21.46	<=30	Pass	
			1	0	23.60	-1.90	21.70	<=30	Pass
				25	23.53	-1.90	21.63	<=30	Pass
	49	23.63		-1.90	21.73	<=30	Pass		
25		0	21.71	-1.90	19.81	<=30	Pass		
		13	21.69	-1.90	19.79	<=30	Pass		
	25	21.70	-1.90	19.80	<=30	Pass			
16QAM	1715	50	0	21.66	-1.90	19.76	<=30	Pass	
			1	0	23.48	-1.90	21.58	<=30	Pass
				25	23.51	-1.90	21.61	<=30	Pass
		49		23.57	-1.90	21.67	<=30	Pass	
		1732.5	25	0	21.82	-1.90	19.92	<=30	Pass
				13	21.85	-1.90	19.95	<=30	Pass
				25	21.88	-1.90	19.98	<=30	Pass
			50	0	21.84	-1.90	19.94	<=30	Pass
				1	0	23.48	-1.90	21.58	<=30
	25				23.34	-1.90	21.44	<=30	Pass
	49	23.44	-1.90		21.54	<=30	Pass		
	1750	25	0	21.96	-1.90	20.06	<=30	Pass	
			13	21.92	-1.90	20.02	<=30	Pass	
			25	21.95	-1.90	20.05	<=30	Pass	



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64QAM	1715	50	0	21.87	-1.90	19.97	<=30	Pass		
			1	0	22.94	-1.90	21.04	<=30	Pass	
				25	22.86	-1.90	20.96	<=30	Pass	
		25	49	22.90	-1.90	21.00	<=30	Pass		
			0	0	21.69	-1.90	19.79	<=30	Pass	
				13	21.69	-1.90	19.79	<=30	Pass	
		50	25	21.70	-1.90	19.80	<=30	Pass		
			1732.5	0	0	22.89	-1.90	20.99	<=30	Pass
					25	22.90	-1.90	21.00	<=30	Pass
	49	22.97			-1.90	21.07	<=30	Pass		
	25	0	0	21.90	-1.90	20.00	<=30	Pass		
			13	21.92	-1.90	20.02	<=30	Pass		
			25	21.96	-1.90	20.06	<=30	Pass		
	50	0	0	21.87	-1.90	19.97	<=30	Pass		
			1750	1	0	22.83	-1.90	20.93	<=30	Pass
					25	22.69	-1.90	20.79	<=30	Pass
	49	22.76			-1.90	20.86	<=30	Pass		
	25	0	0	21.94	-1.90	20.04	<=30	Pass		
			13	21.90	-1.90	20.00	<=30	Pass		
			25	21.93	-1.90	20.03	<=30	Pass		
	50	0	0	21.89	-1.90	19.99	<=30	Pass		



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## 1.5 B4\_15MHz\_EIRP

### 1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1717.5	1	0	23.74	-1.90	21.84	<=30	Pass		
			38	23.70	-1.90	21.80	<=30	Pass		
			74	23.73	-1.90	21.83	<=30	Pass		
		36	0	23.18	-1.90	21.28	<=30	Pass		
			18	23.18	-1.90	21.28	<=30	Pass		
			39	23.19	-1.90	21.29	<=30	Pass		
		75	0	23.21	-1.90	21.31	<=30	Pass		
		1732.5	1	0	23.75	-1.90	21.85	<=30	Pass	
				38	23.87	-1.90	21.97	<=30	Pass	
	74			23.91	-1.90	22.01	<=30	Pass		
	36		0	23.28	-1.90	21.38	<=30	Pass		
			18	23.35	-1.90	21.45	<=30	Pass		
			39	23.36	-1.90	21.46	<=30	Pass		
	75		0	23.36	-1.90	21.46	<=30	Pass		
	1747.5		1	0	23.92	-1.90	22.02	<=30	Pass	
				38	23.81	-1.90	21.91	<=30	Pass	
		74		23.87	-1.90	21.97	<=30	Pass		
		36	0	23.40	-1.90	21.50	<=30	Pass		
			18	23.35	-1.90	21.45	<=30	Pass		
			39	23.34	-1.90	21.44	<=30	Pass		
		75	0	23.39	-1.90	21.49	<=30	Pass		
		16QAM	1717.5	1	0	23.77	-1.90	21.87	<=30	Pass
					38	23.74	-1.90	21.84	<=30	Pass
	74				23.79	-1.90	21.89	<=30	Pass	
36	0			21.73	-1.90	19.83	<=30	Pass		
	18			21.72	-1.90	19.82	<=30	Pass		
	39			21.71	-1.90	19.81	<=30	Pass		
75	0			21.72	-1.90	19.82	<=30	Pass		
1732.5	1			0	23.43	-1.90	21.53	<=30	Pass	
				38	23.53	-1.90	21.63	<=30	Pass	
			74	23.55	-1.90	21.65	<=30	Pass		
	36		0	21.80	-1.90	19.90	<=30	Pass		
			18	21.86	-1.90	19.96	<=30	Pass		
			39	21.88	-1.90	19.98	<=30	Pass		
	75		0	21.88	-1.90	19.98	<=30	Pass		
	1747.5		1	0	23.74	-1.90	21.84	<=30	Pass	
				38	23.67	-1.90	21.77	<=30	Pass	
74				23.74	-1.90	21.84	<=30	Pass		
36			0	21.90	-1.90	20.00	<=30	Pass		
			18	21.86	-1.90	19.96	<=30	Pass		
			39	21.83	-1.90	19.93	<=30	Pass		



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		75	0	21.90	-1.90	20.00	<=30	Pass
64QAM	1717.5	1	0	22.95	-1.90	21.05	<=30	Pass
			38	22.93	-1.90	21.03	<=30	Pass
			74	22.99	-1.90	21.09	<=30	Pass
		36	0	21.74	-1.90	19.84	<=30	Pass
			18	21.71	-1.90	19.81	<=30	Pass
			39	21.70	-1.90	19.80	<=30	Pass
	75	0	21.73	-1.90	19.83	<=30	Pass	
	1732.5	1	0	22.83	-1.90	20.93	<=30	Pass
			38	22.94	-1.90	21.04	<=30	Pass
			74	22.97	-1.90	21.07	<=30	Pass
		36	0	21.82	-1.90	19.92	<=30	Pass
			18	21.87	-1.90	19.97	<=30	Pass
			39	21.92	-1.90	20.02	<=30	Pass
	75	0	21.89	-1.90	19.99	<=30	Pass	
	1747.5	1	0	23.24	-1.90	21.34	<=30	Pass
			38	23.15	-1.90	21.25	<=30	Pass
			74	23.25	-1.90	21.35	<=30	Pass
		36	0	21.87	-1.90	19.97	<=30	Pass
			18	21.83	-1.90	19.93	<=30	Pass
			39	21.81	-1.90	19.91	<=30	Pass
	75	0	21.93	-1.90	20.03	<=30	Pass	



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## 1.6 B4\_20MHz\_EIRP

### 1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1720	1	0	23.68	-1.90	21.78	<=30	Pass		
			50	23.67	-1.90	21.77	<=30	Pass		
			99	23.85	-1.90	21.95	<=30	Pass		
		50	0	23.25	-1.90	21.35	<=30	Pass		
			25	23.23	-1.90	21.33	<=30	Pass		
			50	23.26	-1.90	21.36	<=30	Pass		
		100	0	23.26	-1.90	21.36	<=30	Pass		
		1732.5	1	0	23.76	-1.90	21.86	<=30	Pass	
				50	23.85	-1.90	21.95	<=30	Pass	
	99			23.90	-1.90	22.00	<=30	Pass		
	50		0	23.35	-1.90	21.45	<=30	Pass		
			25	23.39	-1.90	21.49	<=30	Pass		
			50	23.44	-1.90	21.54	<=30	Pass		
	100		0	23.41	-1.90	21.51	<=30	Pass		
	1745		1	0	23.92	-1.90	22.02	<=30	Pass	
				50	23.93	-1.90	22.03	<=30	Pass	
		99		23.93	-1.90	22.03	<=30	Pass		
		50	0	23.46	-1.90	21.56	<=30	Pass		
			25	23.42	-1.90	21.52	<=30	Pass		
			50	23.39	-1.90	21.49	<=30	Pass		
		100	0	23.41	-1.90	21.51	<=30	Pass		
		16QAM	1720	1	0	23.42	-1.90	21.52	<=30	Pass
					50	23.42	-1.90	21.52	<=30	Pass
	99				23.59	-1.90	21.69	<=30	Pass	
50	0			21.74	-1.90	19.84	<=30	Pass		
	25			21.75	-1.90	19.85	<=30	Pass		
	50			21.75	-1.90	19.85	<=30	Pass		
100	0			21.76	-1.90	19.86	<=30	Pass		
1732.5	1			0	23.51	-1.90	21.61	<=30	Pass	
				50	23.61	-1.90	21.71	<=30	Pass	
			99	23.68	-1.90	21.78	<=30	Pass		
	50		0	21.82	-1.90	19.92	<=30	Pass		
			25	21.89	-1.90	19.99	<=30	Pass		
			50	21.93	-1.90	20.03	<=30	Pass		
	100		0	21.87	-1.90	19.97	<=30	Pass		
	1745		1	0	23.88	-1.90	21.98	<=30	Pass	
				50	23.93	-1.90	22.03	<=30	Pass	
99				24.06	-1.90	22.16	<=30	Pass		
50			0	21.92	-1.90	20.02	<=30	Pass		
			25	21.90	-1.90	20.00	<=30	Pass		
			50	21.88	-1.90	19.98	<=30	Pass		



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64QAM	1720	100	0	21.94	-1.90	20.04	<=30	Pass	
			1	0	22.85	-1.90	20.95	<=30	Pass
				50	22.83	-1.90	20.93	<=30	Pass
		50	99	23.00	-1.90	21.10	<=30	Pass	
			0	0	21.78	-1.90	19.88	<=30	Pass
				25	21.79	-1.90	19.89	<=30	Pass
		100	50	21.80	-1.90	19.90	<=30	Pass	
			0	0	21.76	-1.90	19.86	<=30	Pass
				0	23.04	-1.90	21.14	<=30	Pass
	1732.5	1	50	23.13	-1.90	21.23	<=30	Pass	
			99	23.16	-1.90	21.26	<=30	Pass	
			50	0	21.83	-1.90	19.93	<=30	Pass
		25		21.88	-1.90	19.98	<=30	Pass	
		50		21.93	-1.90	20.03	<=30	Pass	
		100	0	21.88	-1.90	19.98	<=30	Pass	
			1	0	22.82	-1.90	20.92	<=30	Pass
				50	22.82	-1.90	20.92	<=30	Pass
		99		22.81	-1.90	20.91	<=30	Pass	
	1745	50	0	21.96	-1.90	20.06	<=30	Pass	
			25	21.94	-1.90	20.04	<=30	Pass	
			50	21.88	-1.90	19.98	<=30	Pass	
		100	0	21.96	-1.90	20.06	<=30	Pass	



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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	3.91	-1.656	-0.0010	/	Pass	
					3.5	1.789	0.0010	/	Pass	
					4.5	0.455	0.0003	/	Pass	
				-30	3.91	-1.367	-0.0008	/	Pass	
					-20	3.91	-1.877	-0.0011	/	Pass
					-10	3.91	0.011	0.0000	/	Pass
				0	3.91	-14.810	-0.0087	/	Pass	
					10	3.91	2.016	0.0012	/	Pass
					30	3.91	-1.663	-0.0010	/	Pass
	40	3.91	-0.440		-0.0003	/	Pass			
	50	3.91	-0.058		0.0000	/	Pass			
	20	3.91	0.768		0.0004	/	Pass			
	1732.5	6	0	20	3.5	-1.735	-0.0010	/	Pass	
					4.5	-1.703	-0.0010	/	Pass	
					3.91	-0.042	0.0000	/	Pass	
				-30	3.91	-4.852	-0.0028	/	Pass	
					-20	3.91	-0.232	-0.0001	/	Pass
					-10	3.91	-0.232	-0.0001	/	Pass
				0	3.91	-2.509	-0.0014	/	Pass	
					10	3.91	-4.226	-0.0024	/	Pass
					30	3.91	-1.663	-0.0010	/	Pass
	40	3.91	-6.770		-0.0039	/	Pass			
	50	3.91	-3.484		-0.0020	/	Pass			
	20	3.91	-6.282		-0.0036	/	Pass			
	1754.3	6	0	20	3.5	-4.362	-0.0025	/	Pass	
					4.5	-4.373	-0.0025	/	Pass	
					3.91	0.419	0.0002	/	Pass	
-30				3.91	-4.532	-0.0026	/	Pass		
				-20	3.91	-4.532	-0.0026	/	Pass	
				-10	3.91	-4.544	-0.0026	/	Pass	
0				3.91	-2.431	-0.0014	/	Pass		
				10	3.91	-2.525	-0.0014	/	Pass	
				30	3.91	-5.014	-0.0029	/	Pass	
	40	3.91	-1.204	-0.0007	/	Pass				
	50	3.91	-5.129	-0.0029	/	Pass				
	20	3.91	-0.363	-0.0002	/	Pass				
16QAM	1710.7	6	0	20	3.5	-1.681	-0.0010	/	Pass	
					4.5	-1.665	-0.0010	/	Pass	
					3.91	-2.661	-0.0016	/	Pass	
				-30	3.91	0.280	0.0002	/	Pass	
					-20	3.91	0.280	0.0002	/	Pass
-10	3.91	-0.850	-0.0005	/	Pass					



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**Shenzhen Branch**

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64QAM				0	3.91	-0.397	-0.0002	/	Pass
				10	3.91	-2.010	-0.0012	/	Pass
				30	3.91	1.003	0.0006	/	Pass
				40	3.91	-2.055	-0.0012	/	Pass
				50	3.91	1.718	0.0010	/	Pass
	1732.5	6	0	20	3.91	-2.438	-0.0014	/	Pass
					3.5	0.183	0.0001	/	Pass
					4.5	-2.622	-0.0015	/	Pass
				-30	3.91	-0.505	-0.0003	/	Pass
				-20	3.91	1.235	0.0007	/	Pass
				-10	3.91	0.699	0.0004	/	Pass
				0	3.91	0.730	0.0004	/	Pass
				10	3.91	-0.632	-0.0004	/	Pass
				30	3.91	0.600	0.0003	/	Pass
				40	3.91	0.922	0.0005	/	Pass
	50	3.91	-3.614	-0.0021	/	Pass			
	1754.3	6	0	20	3.91	-4.393	-0.0025	/	Pass
					3.5	-5.976	-0.0034	/	Pass
					4.5	-2.540	-0.0014	/	Pass
				-30	3.91	-5.398	-0.0031	/	Pass
				-20	3.91	-3.889	-0.0022	/	Pass
				-10	3.91	-3.174	-0.0018	/	Pass
				0	3.91	-3.805	-0.0022	/	Pass
				10	3.91	-3.157	-0.0018	/	Pass
				30	3.91	-3.333	-0.0019	/	Pass
				40	3.91	-2.713	-0.0015	/	Pass
	50	3.91	-4.137	-0.0024	/	Pass			
	1710.7	6	0	20	3.91	-2.463	-0.0014	/	Pass
					3.5	-0.017	0.0000	/	Pass
					4.5	-1.447	-0.0008	/	Pass
				-30	3.91	3.000	0.0018	/	Pass
				-20	3.91	-1.470	-0.0009	/	Pass
				-10	3.91	-1.452	-0.0008	/	Pass
				0	3.91	-0.900	-0.0005	/	Pass
				10	3.91	-2.008	-0.0012	/	Pass
				30	3.91	-2.047	-0.0012	/	Pass
40				3.91	0.719	0.0004	/	Pass	
50	3.91	-0.516	-0.0003	/	Pass				
1732.5	6	0	20	3.91	-1.093	-0.0006	/	Pass	
				3.5	-1.400	-0.0008	/	Pass	
				4.5	2.910	0.0017	/	Pass	
			-30	3.91	-2.251	-0.0013	/	Pass	
			-20	3.91	-4.168	-0.0024	/	Pass	
			-10	3.91	1.097	0.0006	/	Pass	
			0	3.91	-0.167	-0.0001	/	Pass	
			10	3.91	-2.966	-0.0017	/	Pass	
			30	3.91	-3.943	-0.0023	/	Pass	
			40	3.91	-1.055	-0.0006	/	Pass	
50	3.91	-3.305	-0.0019	/	Pass				



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1754.3	6	0	20	3.91	-4.593	-0.0026	/	Pass
				3.5	-3.407	-0.0019	/	Pass
				4.5	-2.479	-0.0014	/	Pass
			-30	3.91	-0.275	-0.0002	/	Pass
			-20	3.91	-4.991	-0.0028	/	Pass
			-10	3.91	-3.545	-0.0020	/	Pass
			0	3.91	-6.445	-0.0037	/	Pass
			10	3.91	-1.846	-0.0011	/	Pass
			30	3.91	-4.526	-0.0026	/	Pass
			40	3.91	-5.511	-0.0031	/	Pass
50	3.91	-4.848	-0.0028	/	Pass			



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## 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	3.91	-5.961	-0.0035	/	Pass	
					3.5	-7.853	-0.0046	/	Pass	
					4.5	-4.380	-0.0026	/	Pass	
				-30	3.91	-4.587	-0.0027	/	Pass	
					-20	3.91	-7.268	-0.0042	/	Pass
					-10	3.91	-6.311	-0.0037	/	Pass
				0	3.91	-8.093	-0.0047	/	Pass	
					10	3.91	-5.441	-0.0032	/	Pass
					30	3.91	-3.163	-0.0018	/	Pass
				40	3.91	-7.163	-0.0042	/	Pass	
					50	3.91	-7.578	-0.0044	/	Pass
						20	3.91	1.745	0.0010	/
	3.5	2.286	0.0013	/			Pass			
	4.5	2.548	0.0015	/	Pass					
	1732.5	15	0	-30	3.91	4.296	0.0025	/	Pass	
					-20	3.91	-1.398	-0.0008	/	Pass
					-10	3.91	0.368	0.0002	/	Pass
				0	3.91	0.016	0.0000	/	Pass	
					10	3.91	0.452	0.0003	/	Pass
					30	3.91	-1.829	-0.0011	/	Pass
				40	3.91	-0.110	-0.0001	/	Pass	
					50	3.91	-1.011	-0.0006	/	Pass
						20	3.91	-3.962	-0.0023	/
				3.5			-2.812	-0.0016	/	Pass
				4.5	-1.616		-0.0009	/	Pass	
				1753.5	15	0	-30	3.91	-2.927	-0.0017
	-20	3.91	-2.529					-0.0014	/	Pass
	-10	3.91	-2.095					-0.0012	/	Pass
	0	3.91	-3.945				-0.0022	/	Pass	
		10	3.91				-1.057	-0.0006	/	Pass
30		3.91	-2.113				-0.0012	/	Pass	
40	3.91	-3.214	-0.0018				/	Pass		
	50	3.91	-5.591				-0.0032	/	Pass	
		20	3.91				-6.359	-0.0037	/	Pass
3.5			-6.704				-0.0039	/	Pass	
4.5	-6.455		-0.0038				/	Pass		
16QAM	1711.5	15	0				-30	3.91	-7.500	-0.0044
				-20	3.91	-3.342		-0.0020	/	Pass
				-10	3.91	-7.982		-0.0047	/	Pass
				0	3.91	-7.037	-0.0041	/	Pass	
					10	3.91	-6.020	-0.0035	/	Pass



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64QAM	1732.5	15	0	30	3.91	-6.461	-0.0038	/	Pass
				40	3.91	-4.997	-0.0029	/	Pass
				50	3.91	-4.401	-0.0026	/	Pass
				20	3.91	1.782	0.0010	/	Pass
					3.5	0.422	0.0002	/	Pass
					4.5	0.558	0.0003	/	Pass
				-30	3.91	-0.487	-0.0003	/	Pass
				-20	3.91	1.254	0.0007	/	Pass
				-10	3.91	0.867	0.0005	/	Pass
				0	3.91	1.827	0.0011	/	Pass
	10	3.91	-0.140	-0.0001	/	Pass			
	30	3.91	0.831	0.0005	/	Pass			
	40	3.91	3.194	0.0018	/	Pass			
	50	3.91	-0.254	-0.0001	/	Pass			
	1753.5	15	0	20	3.91	-3.618	-0.0021	/	Pass
					3.5	-5.032	-0.0029	/	Pass
					4.5	-2.380	-0.0014	/	Pass
				-30	3.91	-2.271	-0.0013	/	Pass
				-20	3.91	-4.737	-0.0027	/	Pass
				-10	3.91	-1.093	-0.0006	/	Pass
0				3.91	-4.637	-0.0026	/	Pass	
10				3.91	-1.749	-0.0010	/	Pass	
30				3.91	-3.008	-0.0017	/	Pass	
40				3.91	-4.443	-0.0025	/	Pass	
50	3.91	-4.345	-0.0025	/	Pass				
1711.5	15	0	20	3.91	-6.741	-0.0039	/	Pass	
				3.5	-7.933	-0.0046	/	Pass	
				4.5	-4.697	-0.0027	/	Pass	
			-30	3.91	-3.625	-0.0021	/	Pass	
			-20	3.91	-6.457	-0.0038	/	Pass	
			-10	3.91	-7.527	-0.0044	/	Pass	
			0	3.91	-3.353	-0.0020	/	Pass	
			10	3.91	-3.414	-0.0020	/	Pass	
			30	3.91	-3.411	-0.0020	/	Pass	
			40	3.91	-1.377	-0.0008	/	Pass	
50	3.91	-2.714	-0.0016	/	Pass				
1732.5	15	0	20	3.91	-3.363	-0.0019	/	Pass	
				3.5	-1.344	-0.0008	/	Pass	
				4.5	-4.397	-0.0025	/	Pass	
			-30	3.91	-3.041	-0.0018	/	Pass	
			-20	3.91	-0.366	-0.0002	/	Pass	
			-10	3.91	-0.610	-0.0004	/	Pass	
			0	3.91	-4.821	-0.0028	/	Pass	
			10	3.91	-2.389	-0.0014	/	Pass	
			30	3.91	-3.967	-0.0023	/	Pass	
			40	3.91	-4.445	-0.0026	/	Pass	
50	3.91	-6.057	-0.0035	/	Pass				
1753.5	15	0	20	3.91	-4.257	-0.0024	/	Pass	
				3.5	-3.431	-0.0020	/	Pass	



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				4.5	-4.641	-0.0026	/	Pass
				-30	3.91	-2.675	-0.0015	Pass
				-20	3.91	-3.808	-0.0022	Pass
				-10	3.91	-5.652	-0.0032	Pass
				0	3.91	-4.626	-0.0026	Pass
				10	3.91	-2.069	-0.0012	Pass
				30	3.91	-5.699	-0.0033	Pass
				40	3.91	-4.883	-0.0028	Pass
				50	3.91	-6.055	-0.0035	Pass



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## 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	3.91	-0.379	-0.0002	/	Pass				
					3.5	0.856	0.0005	/	Pass				
					4.5	1.176	0.0007	/	Pass				
				-30	3.91	1.696	0.0010	/	Pass				
					-20	3.91	1.311	0.0008	/	Pass			
					-10	3.91	-2.556	-0.0015	/	Pass			
				0	3.91	-2.211	-0.0013	/	Pass				
					10	3.91	1.403	0.0008	/	Pass			
					30	3.91	-0.772	-0.0005	/	Pass			
				40	3.91	0.480	0.0003	/	Pass				
					50	3.91	-1.284	-0.0007	/	Pass			
						3.91	1.307	0.0008	/	Pass			
	20	3.5	-0.629	-0.0004		/	Pass						
		4.5	2.388	0.0014	/	Pass							
		-30	3.91	-2.217	-0.0013	/	Pass						
	1732.5	25	0	-20	3.91	0.983	0.0006	/	Pass				
					-10	3.91	2.929	0.0017	/	Pass			
					0	3.91	-1.335	-0.0008	/	Pass			
				10	3.91	-2.161	-0.0012	/	Pass				
					30	3.91	-0.820	-0.0005	/	Pass			
					40	3.91	-0.560	-0.0003	/	Pass			
				40	3.91	-1.235	-0.0007	/	Pass				
					50	3.91	-3.086	-0.0018	/	Pass			
						3.5	-2.132	-0.0012	/	Pass			
				20		4.5	-5.636	-0.0032	/	Pass			
					-30	3.91	-3.664	-0.0021	/	Pass			
					-20	3.91	-10.758	-0.0061	/	Pass			
	1752.5	25	0	-10	3.91	0.824	0.0005	/	Pass				
					0	3.91	-2.885	-0.0016	/	Pass			
					10	3.91	-25.428	-0.0145	/	Pass			
30				3.91	2.075	0.0012	/	Pass					
				40	3.91	0.877	0.0005	/	Pass				
				50	3.91	1.147	0.0007	/	Pass				
16QAM				1712.5	25	0	20	3.91	0.038	0.0000	/	Pass	
								3.5	2.888	0.0017	/	Pass	
								4.5	0.386	0.0002	/	Pass	
							-30	3.91	-1.679	-0.0010	/	Pass	
								-20	3.91	-0.762	-0.0004	/	Pass
								-10	3.91	0.817	0.0005	/	Pass
	0	3.91	1.769				0.0010	/	Pass				
		10	3.91				0.229	0.0001	/	Pass			



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64QAM	1732.5	25	0	30	3.91	1.946	0.0011	/	Pass
				40	3.91	2.818	0.0016	/	Pass
				50	3.91	1.930	0.0011	/	Pass
				20	3.91	0.675	0.0004	/	Pass
					3.5	-1.362	-0.0008	/	Pass
					4.5	-0.708	-0.0004	/	Pass
				-30	3.91	-8.212	-0.0047	/	Pass
				-20	3.91	-3.431	-0.0020	/	Pass
				-10	3.91	-7.424	-0.0043	/	Pass
				0	3.91	-5.913	-0.0034	/	Pass
	10	3.91	-5.004	-0.0029	/	Pass			
	30	3.91	-5.024	-0.0029	/	Pass			
	40	3.91	-6.083	-0.0035	/	Pass			
	50	3.91	-6.027	-0.0035	/	Pass			
	1752.5	25	0	20	3.91	-3.220	-0.0018	/	Pass
					3.5	-1.794	-0.0010	/	Pass
					4.5	-0.721	-0.0004	/	Pass
				-30	3.91	1.060	0.0006	/	Pass
				-20	3.91	1.264	0.0007	/	Pass
				-10	3.91	3.280	0.0019	/	Pass
0				3.91	0.345	0.0002	/	Pass	
10				3.91	-3.235	-0.0018	/	Pass	
30				3.91	3.047	0.0017	/	Pass	
40				3.91	2.620	0.0015	/	Pass	
50	3.91	1.628	0.0009	/	Pass				
1712.5	25	0	20	3.91	0.047	0.0000	/	Pass	
				3.5	3.480	0.0020	/	Pass	
				4.5	1.225	0.0007	/	Pass	
			-30	3.91	-0.340	-0.0002	/	Pass	
			-20	3.91	4.595	0.0027	/	Pass	
			-10	3.91	-2.053	-0.0012	/	Pass	
			0	3.91	2.834	0.0017	/	Pass	
			10	3.91	1.632	0.0010	/	Pass	
			30	3.91	3.097	0.0018	/	Pass	
			40	3.91	0.286	0.0002	/	Pass	
50	3.91	1.432	0.0008	/	Pass				
1732.5	25	0	20	3.91	-2.423	-0.0014	/	Pass	
				3.5	-3.102	-0.0018	/	Pass	
				4.5	-3.511	-0.0020	/	Pass	
			-30	3.91	-5.293	-0.0031	/	Pass	
			-20	3.91	-2.919	-0.0017	/	Pass	
			-10	3.91	-3.040	-0.0018	/	Pass	
			0	3.91	-2.492	-0.0014	/	Pass	
			10	3.91	-3.370	-0.0019	/	Pass	
			30	3.91	-2.501	-0.0014	/	Pass	
			40	3.91	-3.632	-0.0021	/	Pass	
50	3.91	-2.697	-0.0016	/	Pass				
1752.5	25	0	20	3.91	2.113	0.0012	/	Pass	
				3.5	0.726	0.0004	/	Pass	



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				4.5	0.197	0.0001	/	Pass
				-30	3.91	-0.364	-0.0002	Pass
				-20	3.91	0.263	0.0002	Pass
				-10	3.91	-1.538	-0.0009	Pass
				0	3.91	-0.755	-0.0004	Pass
				10	3.91	-2.069	-0.0012	Pass
				30	3.91	-3.564	-0.0020	Pass
				40	3.91	-3.791	-0.0022	Pass
				50	3.91	-5.045	-0.0029	Pass



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## 2.4 B4\_10MHz

### 2.4.1 Test Result

Band: 4 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1715	50	0	20	3.91	0.541	0.0003	/	Pass	
					3.5	0.034	0.0000	/	Pass	
					4.5	2.033	0.0012	/	Pass	
				-30	3.91	0.654	0.0004	/	Pass	
					-20	3.91	-0.838	-0.0005	/	Pass
					-10	3.91	-1.413	-0.0008	/	Pass
				0	3.91	-0.511	-0.0003	/	Pass	
					10	3.91	-2.001	-0.0012	/	Pass
					30	3.91	-0.077	0.0000	/	Pass
				40	3.91	-0.243	-0.0001	/	Pass	
					50	3.91	-0.662	-0.0004	/	Pass
					1732.5	50	0	20	3.91	0.350
	3.5	-2.177	-0.0013	/					Pass	
	4.5	1.157	0.0007	/					Pass	
	-30	3.91	-1.046	-0.0006				/	Pass	
		-20	3.91	-1.367				-0.0008	/	Pass
		-10	3.91	1.025				0.0006	/	Pass
	0	3.91	-1.874	-0.0011				/	Pass	
		10	3.91	0.585				0.0003	/	Pass
		30	3.91	-2.193				-0.0013	/	Pass
	40	3.91	-2.356	-0.0014				/	Pass	
		50	3.91	0.792				0.0005	/	Pass
		1750	50	0				20	3.91	0.581
	3.5				0.020	0.0000	/		Pass	
	4.5				-1.091	-0.0006	/		Pass	
	-30				3.91	-1.093	-0.0006	/	Pass	
					-20	3.91	1.582	0.0009	/	Pass
					-10	3.91	-1.357	-0.0008	/	Pass
	0				3.91	-1.165	-0.0007	/	Pass	
					10	3.91	-0.939	-0.0005	/	Pass
30					3.91	-0.332	-0.0002	/	Pass	
40	3.91				0.514	0.0003	/	Pass		
	50				3.91	-1.666	-0.0010	/	Pass	
	16QAM				1715	50	0	20	3.91	-0.544
3.5		0.075	0.0000	/					Pass	
4.5		-0.328	-0.0002	/					Pass	
-30		3.91	-2.582	-0.0015				/	Pass	
		-20	3.91	-1.164				-0.0007	/	Pass
		-10	3.91	-3.599				-0.0021	/	Pass
0	3.91	0.368	0.0002	/	Pass					
	10	3.91	0.240	0.0001	/	Pass				



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64QAM	1732.5	50	0	30	3.91	-0.734	-0.0004	/	Pass
				40	3.91	2.268	0.0013	/	Pass
				50	3.91	-1.076	-0.0006	/	Pass
				20	3.91	-3.673	-0.0021	/	Pass
					3.5	-0.194	-0.0001	/	Pass
					4.5	-2.684	-0.0015	/	Pass
				-30	3.91	-7.600	-0.0044	/	Pass
				-20	3.91	-2.395	-0.0014	/	Pass
				-10	3.91	-5.330	-0.0031	/	Pass
				0	3.91	-6.476	-0.0037	/	Pass
	10	3.91	-0.832	-0.0005	/	Pass			
	30	3.91	-3.375	-0.0019	/	Pass			
	40	3.91	-3.391	-0.0020	/	Pass			
	50	3.91	-4.159	-0.0024	/	Pass			
	1750	50	0	20	3.91	-3.173	-0.0018	/	Pass
					3.5	-2.829	-0.0016	/	Pass
					4.5	-1.086	-0.0006	/	Pass
				-30	3.91	-0.610	-0.0003	/	Pass
				-20	3.91	1.951	0.0011	/	Pass
				-10	3.91	1.918	0.0011	/	Pass
0				3.91	1.187	0.0007	/	Pass	
10				3.91	0.424	0.0002	/	Pass	
30				3.91	1.271	0.0007	/	Pass	
40				3.91	1.585	0.0009	/	Pass	
50	3.91	-0.848	-0.0005	/	Pass				
1715	50	0	20	3.91	0.607	0.0004	/	Pass	
				3.5	-1.732	-0.0010	/	Pass	
				4.5	-0.015	0.0000	/	Pass	
			-30	3.91	-0.763	-0.0004	/	Pass	
			-20	3.91	-1.140	-0.0007	/	Pass	
			-10	3.91	-1.590	-0.0009	/	Pass	
			0	3.91	-4.944	-0.0029	/	Pass	
			10	3.91	-1.424	-0.0008	/	Pass	
			30	3.91	-2.021	-0.0012	/	Pass	
			40	3.91	-2.689	-0.0016	/	Pass	
	50	3.91	-3.145	-0.0018	/	Pass			
	1732.5	50	0	20	3.91	-4.990	-0.0029	/	Pass
					3.5	-2.804	-0.0016	/	Pass
					4.5	-4.692	-0.0027	/	Pass
				-30	3.91	-8.650	-0.0050	/	Pass
				-20	3.91	-5.549	-0.0032	/	Pass
				-10	3.91	-6.092	-0.0035	/	Pass
				0	3.91	-3.477	-0.0020	/	Pass
10				3.91	-4.853	-0.0028	/	Pass	
30	3.91	-5.884	-0.0034	/	Pass				
40	3.91	-3.758	-0.0022	/	Pass				
50	3.91	-3.258	-0.0019	/	Pass				
1750	50	0	20	3.91	4.020	0.0023	/	Pass	
				3.5	2.632	0.0015	/	Pass	



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				4.5	2.876	0.0016	/	Pass	
				-30	3.91	-0.901	-0.0005	/	Pass
				-20	3.91	-1.028	-0.0006	/	Pass
				-10	3.91	0.813	0.0005	/	Pass
				0	3.91	2.842	0.0016	/	Pass
				10	3.91	-0.885	-0.0005	/	Pass
				30	3.91	1.841	0.0011	/	Pass
				40	3.91	-2.116	-0.0012	/	Pass
				50	3.91	-3.510	-0.0020	/	Pass



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## 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	3.91	-2.330	-0.0014	/	Pass	
					3.5	-2.744	-0.0016	/	Pass	
					4.5	-2.577	-0.0015	/	Pass	
				-30	3.91	-1.153	-0.0007	/	Pass	
					-20	3.91	-1.695	-0.0010	/	Pass
					-10	3.91	-1.885	-0.0011	/	Pass
				0	3.91	-2.654	-0.0015	/	Pass	
					10	3.91	-3.205	-0.0019	/	Pass
					30	3.91	-0.648	-0.0004	/	Pass
				40	3.91	-6.809	-0.0040	/	Pass	
					50	3.91	-1.596	-0.0009	/	Pass
					1732.5	75	0	20	3.91	-1.736
	3.5	-4.158	-0.0024	/					Pass	
	4.5	-3.221	-0.0019	/					Pass	
	-30	3.91	-3.913	-0.0023				/	Pass	
		-20	3.91	-6.019				-0.0035	/	Pass
		-10	3.91	-2.949				-0.0017	/	Pass
	0	3.91	-5.020	-0.0029				/	Pass	
		10	3.91	-1.023				-0.0006	/	Pass
		30	3.91	-4.261				-0.0025	/	Pass
	40	3.91	-4.092	-0.0024				/	Pass	
		50	3.91	-5.961				-0.0034	/	Pass
		1747.5	75	0				20	3.91	-1.362
	3.5				-1.621	-0.0009	/		Pass	
	4.5				-1.120	-0.0006	/		Pass	
	-30				3.91	-2.279	-0.0013	/	Pass	
					-20	3.91	-1.135	-0.0006	/	Pass
					-10	3.91	-2.531	-0.0014	/	Pass
	0				3.91	0.717	0.0004	/	Pass	
					10	3.91	-1.598	-0.0009	/	Pass
30					3.91	-0.475	-0.0003	/	Pass	
40	3.91				-1.101	-0.0006	/	Pass		
	50				3.91	-2.240	-0.0013	/	Pass	
	16QAM				1717.5	75	0	20	3.91	-3.418
3.5		1.527	0.0009	/					Pass	
4.5		1.030	0.0006	/					Pass	
-30		3.91	-0.197	-0.0001				/	Pass	
		-20	3.91	-1.080				-0.0006	/	Pass
		-10	3.91	-2.551				-0.0015	/	Pass
0	3.91	-4.746	-0.0028	/	Pass					
	10	3.91	-1.064	-0.0006	/	Pass				



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64QAM	1732.5	75	0	30	3.91	0.434	0.0003	/	Pass		
				40	3.91	-0.153	-0.0001	/	Pass		
				50	3.91	-1.022	-0.0006	/	Pass		
				20	3.91	-0.986	-0.0006	/	Pass		
					3.5	-2.568	-0.0015	/	Pass		
					4.5	-3.921	-0.0023	/	Pass		
				-30	3.91	-1.526	-0.0009	/	Pass		
				-20	3.91	-3.246	-0.0019	/	Pass		
				-10	3.91	-2.842	-0.0016	/	Pass		
				0	3.91	-3.384	-0.0020	/	Pass		
	10	3.91	-4.135	-0.0024	/	Pass					
	30	3.91	-2.239	-0.0013	/	Pass					
	40	3.91	-3.859	-0.0022	/	Pass					
	50	3.91	-3.408	-0.0020	/	Pass					
	1747.5	75	0	20	3.91	-2.032	-0.0012	/	Pass		
					3.5	-2.556	-0.0015	/	Pass		
					4.5	0.057	0.0000	/	Pass		
				-30	3.91	-1.617	-0.0009	/	Pass		
				-20	3.91	-3.097	-0.0018	/	Pass		
				-10	3.91	-4.314	-0.0025	/	Pass		
0				3.91	-3.581	-0.0020	/	Pass			
10				3.91	-2.545	-0.0015	/	Pass			
30				3.91	-1.054	-0.0006	/	Pass			
40				3.91	-2.440	-0.0014	/	Pass			
50	3.91	1.303	0.0007	/	Pass						
1717.5	75	0	20	3.91	-1.212	-0.0007	/	Pass			
				3.5	-2.122	-0.0012	/	Pass			
				4.5	-1.095	-0.0006	/	Pass			
			-30	3.91	-2.791	-0.0016	/	Pass			
			-20	3.91	-2.871	-0.0017	/	Pass			
			-10	3.91	-1.746	-0.0010	/	Pass			
			0	3.91	0.050	0.0000	/	Pass			
			10	3.91	-2.564	-0.0015	/	Pass			
			30	3.91	-0.226	-0.0001	/	Pass			
			40	3.91	-0.457	-0.0003	/	Pass			
			50	3.91	-1.994	-0.0012	/	Pass			
			1732.5	75	0	20	3.91	-1.764	-0.0010	/	Pass
							3.5	-0.290	-0.0002	/	Pass
							4.5	-1.582	-0.0009	/	Pass
						-30	3.91	1.659	0.0010	/	Pass
						-20	3.91	-3.903	-0.0023	/	Pass
						-10	3.91	-0.979	-0.0006	/	Pass
						0	3.91	-2.994	-0.0017	/	Pass
10	3.91	-1.139				-0.0007	/	Pass			
30	3.91	1.566				0.0009	/	Pass			
40	3.91	-2.219	-0.0013	/	Pass						
50	3.91	-3.213	-0.0019	/	Pass						
1747.5	75	0	20	3.91	-0.921	-0.0005	/	Pass			
				3.5	-2.355	-0.0013	/	Pass			



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				4.5	-3.278	-0.0019	/	Pass
				-30	3.91	-2.217	-0.0013	Pass
				-20	3.91	-0.711	-0.0004	Pass
				-10	3.91	-0.639	-0.0004	Pass
				0	3.91	-1.668	-0.0010	Pass
				10	3.91	-2.642	-0.0015	Pass
				30	3.91	-3.976	-0.0023	Pass
				40	3.91	-3.578	-0.0020	Pass
				50	3.91	0.564	0.0003	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	3.91	-0.909	-0.0005	/	Pass	
					3.5	0.192	0.0001	/	Pass	
					4.5	0.216	0.0001	/	Pass	
				-30	3.91	2.741	0.0016	/	Pass	
					-20	3.91	3.281	0.0019	/	Pass
					-10	3.91	4.075	0.0024	/	Pass
				0	3.91	0.473	0.0003	/	Pass	
					10	3.91	0.703	0.0004	/	Pass
					30	3.91	0.794	0.0005	/	Pass
				40	3.91	-0.413	-0.0002	/	Pass	
					50	3.91	0.528	0.0003	/	Pass
					20	3.91	-3.998	-0.0023	/	Pass
	3.5	0.152	0.0001	/		Pass				
	4.5	-1.298	-0.0007	/		Pass				
	-30	3.91	-0.168	-0.0001	/	Pass				
		-20	3.91	-0.436	-0.0003	/	Pass			
		-10	3.91	-2.532	-0.0015	/	Pass			
	0	3.91	-0.220	-0.0001	/	Pass				
		10	3.91	-0.419	-0.0002	/	Pass			
		30	3.91	-0.217	-0.0001	/	Pass			
	40	3.91	-2.621	-0.0015	/	Pass				
		50	3.91	-0.870	-0.0005	/	Pass			
		20	3.91	-1.037	-0.0006	/	Pass			
	3.5		-3.176	-0.0018	/	Pass				
	4.5		0.127	0.0001	/	Pass				
	-30	3.91	0.502	0.0003	/	Pass				
		-20	3.91	1.535	0.0009	/	Pass			
		-10	3.91	-0.467	-0.0003	/	Pass			
	0	3.91	-0.698	-0.0004	/	Pass				
		10	3.91	0.355	0.0002	/	Pass			
30		3.91	0.092	0.0001	/	Pass				
40	3.91	-2.336	-0.0013	/	Pass					
	50	3.91	-3.580	-0.0021	/	Pass				
	20	3.91	-0.300	-0.0002	/	Pass				
3.5		2.889	0.0017	/	Pass					
4.5		-2.002	-0.0012	/	Pass					
-30	3.91	1.602	0.0009	/	Pass					
	-20	3.91	-0.614	-0.0004	/	Pass				
	-10	3.91	2.235	0.0013	/	Pass				
0	3.91	1.748	0.0010	/	Pass					
	10	3.91	0.572	0.0003	/	Pass				
	16QAM	1720	100	0	20	3.91	-0.300	-0.0002	/	Pass
3.5						2.889	0.0017	/	Pass	
4.5						-2.002	-0.0012	/	Pass	
-30	3.91	1.602	0.0009	/	Pass					
	-20	3.91	-0.614	-0.0004	/	Pass				
	-10	3.91	2.235	0.0013	/	Pass				
0	3.91	1.748	0.0010	/	Pass					
	10	3.91	0.572	0.0003	/	Pass				



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64QAM	1732.5	100	0	30	3.91	-0.296	-0.0002	/	Pass
				40	3.91	0.084	0.0000	/	Pass
				50	3.91	2.044	0.0012	/	Pass
				20	3.91	-3.782	-0.0022	/	Pass
					3.5	-1.359	-0.0008	/	Pass
					4.5	1.454	0.0008	/	Pass
				-30	3.91	-1.906	-0.0011	/	Pass
				-20	3.91	-1.257	-0.0007	/	Pass
				-10	3.91	-3.293	-0.0019	/	Pass
				0	3.91	-0.888	-0.0005	/	Pass
	10	3.91	-2.376	-0.0014	/	Pass			
	30	3.91	-5.162	-0.0030	/	Pass			
	40	3.91	-4.990	-0.0029	/	Pass			
	50	3.91	-4.674	-0.0027	/	Pass			
	1745	100	0	20	3.91	-0.485	-0.0003	/	Pass
					3.5	-2.448	-0.0014	/	Pass
					4.5	-3.056	-0.0018	/	Pass
				-30	3.91	0.375	0.0002	/	Pass
				-20	3.91	1.297	0.0007	/	Pass
				-10	3.91	-2.734	-0.0016	/	Pass
0				3.91	-0.542	-0.0003	/	Pass	
10				3.91	-2.150	-0.0012	/	Pass	
30				3.91	-0.743	-0.0004	/	Pass	
40				3.91	-1.403	-0.0008	/	Pass	
50	3.91	-2.566	-0.0015	/	Pass				
1720	100	0	20	3.91	-0.974	-0.0006	/	Pass	
				3.5	-0.024	0.0000	/	Pass	
				4.5	2.895	0.0017	/	Pass	
			-30	3.91	3.236	0.0019	/	Pass	
			-20	3.91	0.996	0.0006	/	Pass	
			-10	3.91	0.649	0.0004	/	Pass	
			0	3.91	-0.027	0.0000	/	Pass	
			10	3.91	1.156	0.0007	/	Pass	
			30	3.91	2.322	0.0014	/	Pass	
			40	3.91	0.748	0.0004	/	Pass	
50	3.91	3.654	0.0021	/	Pass				
1732.5	100	0	20	3.91	-5.058	-0.0029	/	Pass	
				3.5	-3.887	-0.0022	/	Pass	
				4.5	-5.472	-0.0032	/	Pass	
			-30	3.91	-5.336	-0.0031	/	Pass	
			-20	3.91	-6.431	-0.0037	/	Pass	
			-10	3.91	-5.624	-0.0032	/	Pass	
			0	3.91	-3.467	-0.0020	/	Pass	
			10	3.91	-3.301	-0.0019	/	Pass	
			30	3.91	-6.987	-0.0040	/	Pass	
			40	3.91	-7.279	-0.0042	/	Pass	
50	3.91	-6.677	-0.0039	/	Pass				
1745	100	0	20	3.91	0.321	0.0002	/	Pass	
				3.5	-3.788	-0.0022	/	Pass	



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				4.5	-3.023	-0.0017	/	Pass	
				-30	3.91	-0.811	-0.0005	/	Pass
				-20	3.91	-0.157	-0.0001	/	Pass
				-10	3.91	0.759	0.0004	/	Pass
				0	3.91	-3.257	-0.0019	/	Pass
				10	3.91	-2.944	-0.0017	/	Pass
				30	3.91	-2.675	-0.0015	/	Pass
				40	3.91	-2.135	-0.0012	/	Pass
				50	3.91	-1.591	-0.0009	/	Pass



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## 3. 99% & 26dB Bandwidth

### 3.1 Band4\_OBW

#### 3.1.1 Test Result

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.106	/	Pass
		1732.5	6	0	1.108	/	Pass
		1754.3	6	0	1.114	/	Pass
	16QAM	1710.7	6	0	1.109	/	Pass
		1732.5	6	0	1.117	/	Pass
		1754.3	6	0	1.120	/	Pass
	64QAM	1710.7	6	0	1.118	/	Pass
		1732.5	6	0	1.110	/	Pass
		1754.3	6	0	1.112	/	Pass
3	QPSK	1711.5	15	0	2.734	/	Pass
		1732.5	15	0	2.744	/	Pass
		1753.5	15	0	2.726	/	Pass
	16QAM	1711.5	15	0	2.731	/	Pass
		1732.5	15	0	2.735	/	Pass
		1753.5	15	0	2.727	/	Pass
	64QAM	1711.5	15	0	2.748	/	Pass
		1732.5	15	0	2.720	/	Pass
		1753.5	15	0	2.726	/	Pass
5	QPSK	1712.5	25	0	4.559	/	Pass
		1732.5	25	0	4.541	/	Pass
		1752.5	25	0	4.550	/	Pass
	16QAM	1712.5	25	0	4.529	/	Pass
		1732.5	25	0	4.556	/	Pass
		1752.5	25	0	4.564	/	Pass
	64QAM	1712.5	25	0	4.540	/	Pass
		1732.5	25	0	4.536	/	Pass
		1752.5	25	0	4.540	/	Pass
10	QPSK	1715	50	0	9.039	/	Pass
		1732.5	50	0	9.042	/	Pass
		1750	50	0	9.080	/	Pass
	16QAM	1715	50	0	9.042	/	Pass
		1732.5	50	0	9.063	/	Pass
		1750	50	0	9.047	/	Pass
	64QAM	1715	50	0	9.044	/	Pass
		1732.5	50	0	9.048	/	Pass
		1750	50	0	9.073	/	Pass
15	QPSK	1717.5	75	0	13.552	/	Pass
		1732.5	75	0	13.552	/	Pass
		1747.5	75	0	13.572	/	Pass



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	16QAM	1717.5	75	0	13.594	/	Pass
		1732.5	75	0	13.581	/	Pass
		1747.5	75	0	13.588	/	Pass
	64QAM	1717.5	75	0	13.549	/	Pass
		1732.5	75	0	13.586	/	Pass
		1747.5	75	0	13.590	/	Pass
20	QPSK	1720	100	0	18.131	/	Pass
		1732.5	100	0	18.184	/	Pass
		1745	100	0	18.079	/	Pass
	16QAM	1720	100	0	18.180	/	Pass
		1732.5	100	0	18.083	/	Pass
		1745	100	0	18.084	/	Pass
	64QAM	1720	100	0	18.085	/	Pass
		1732.5	100	0	18.155	/	Pass
		1745	100	0	18.121	/	Pass



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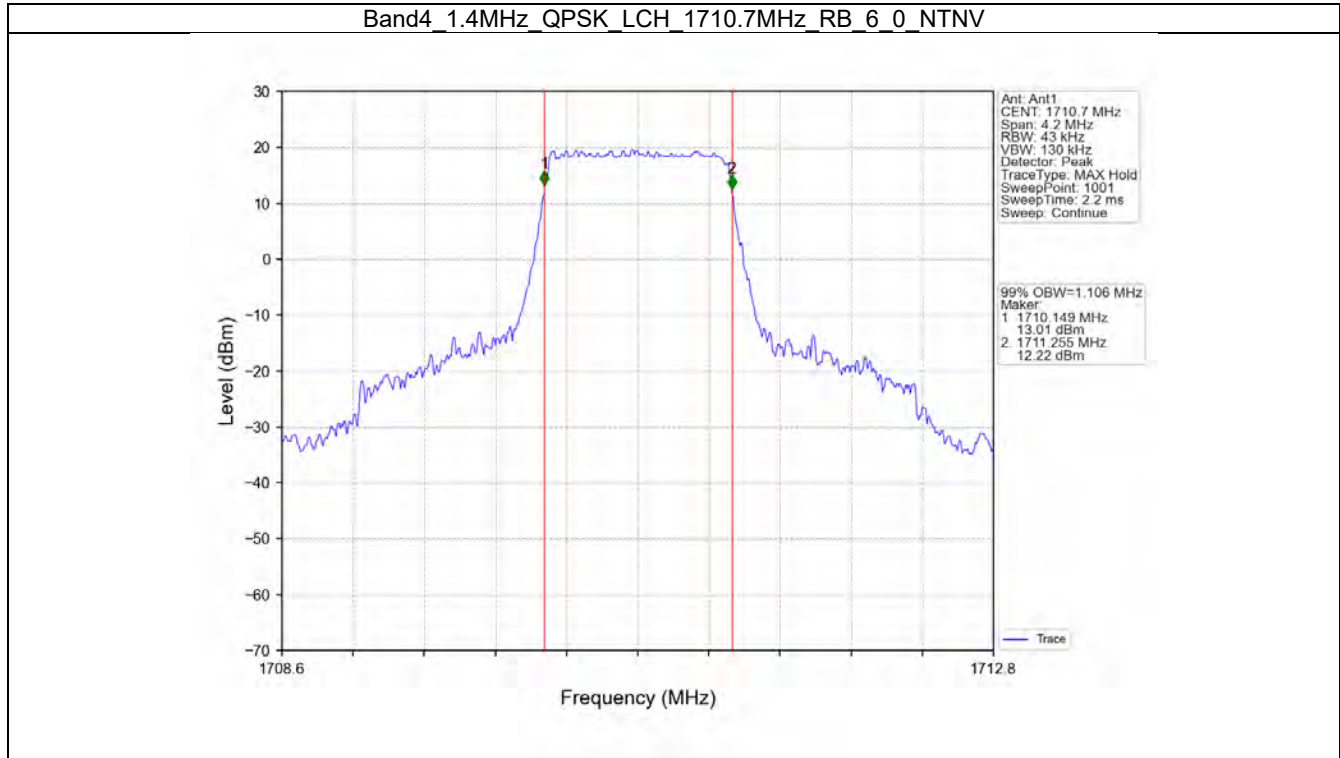
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3.1.2 Test Graph



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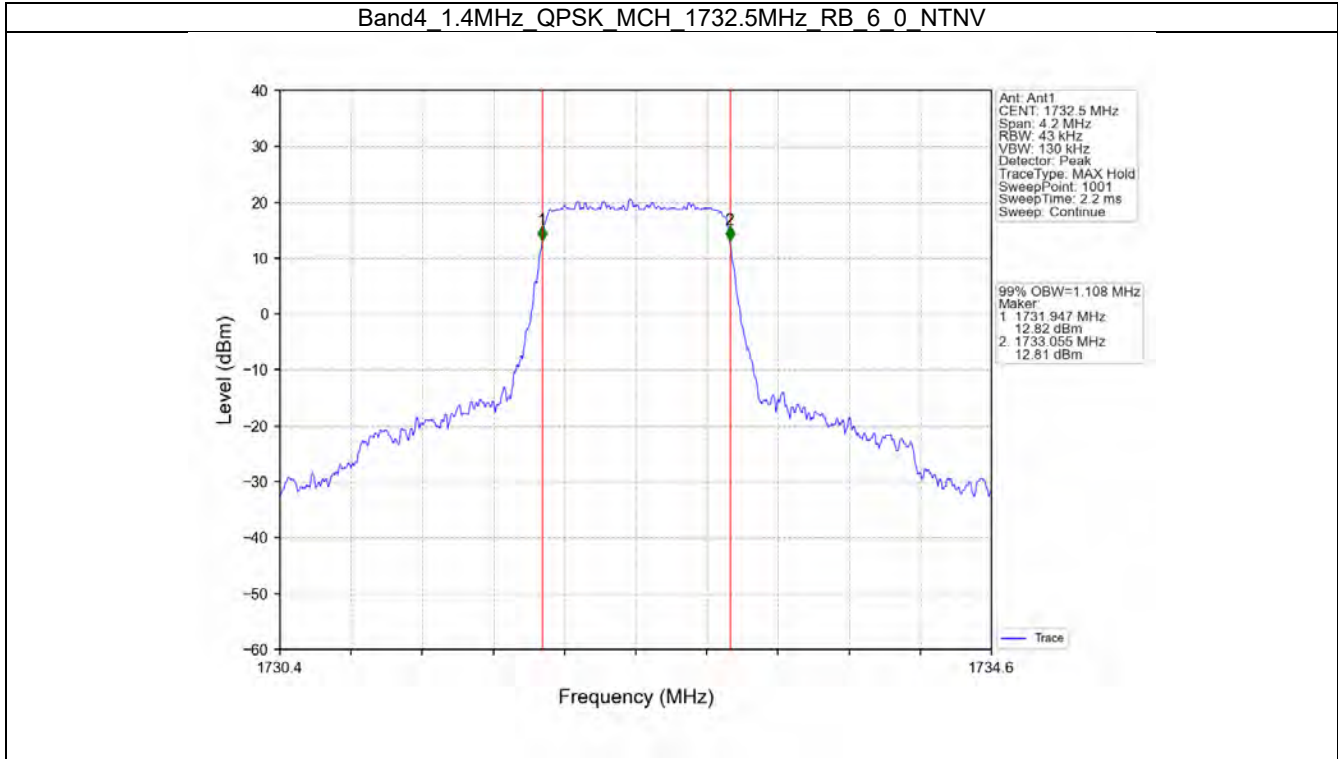
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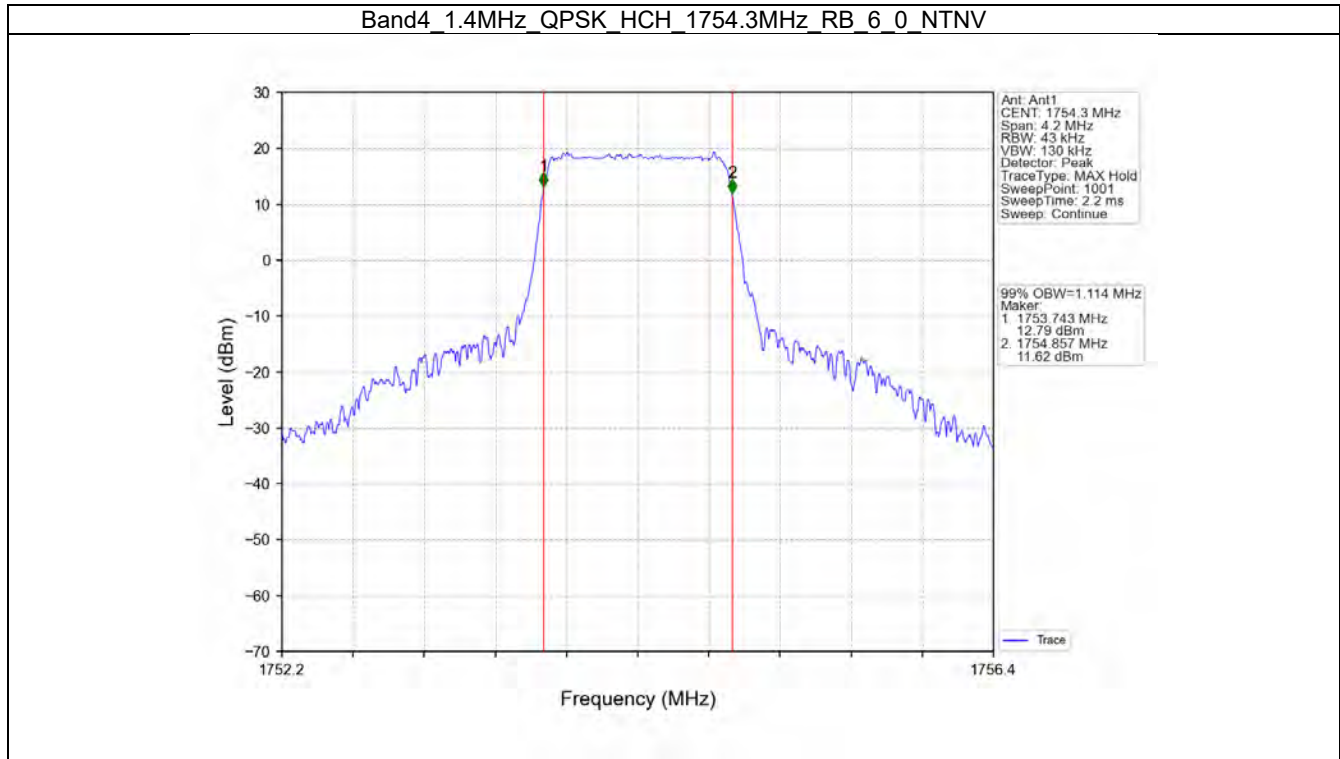
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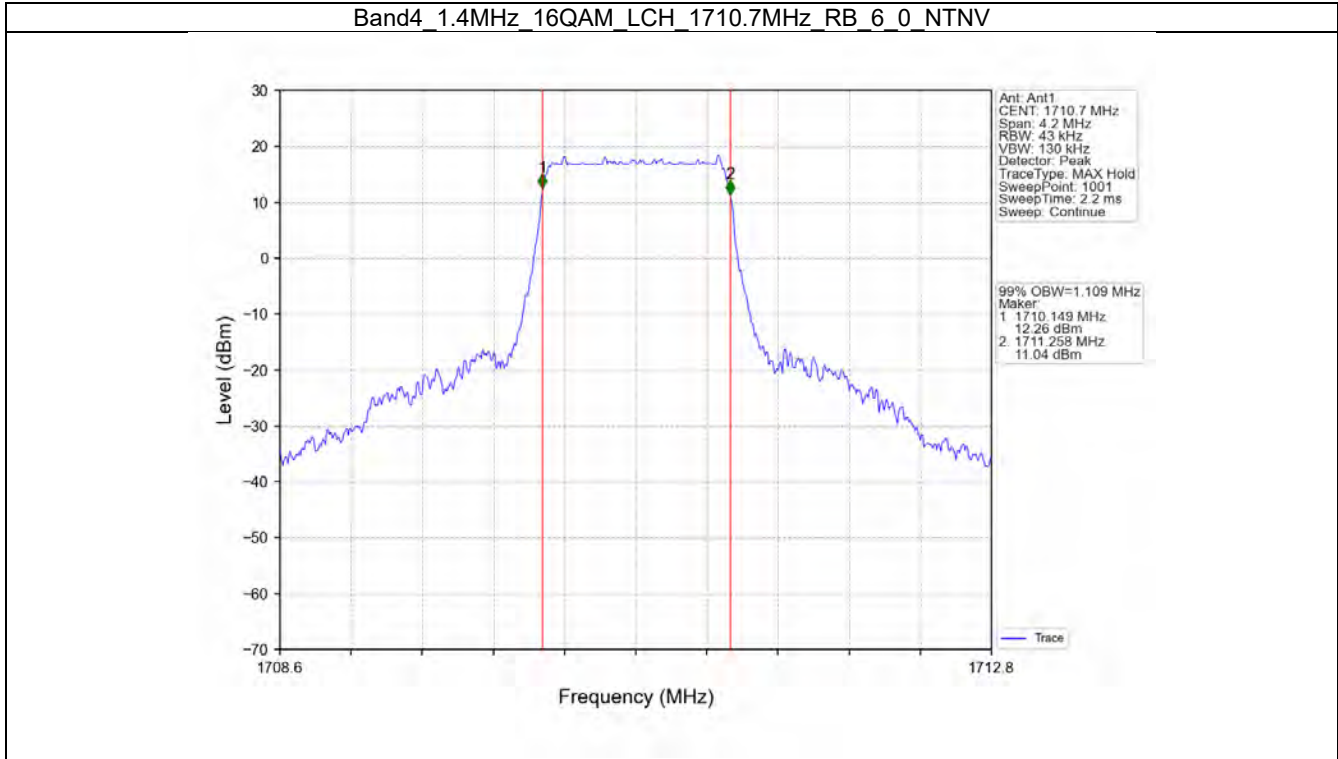
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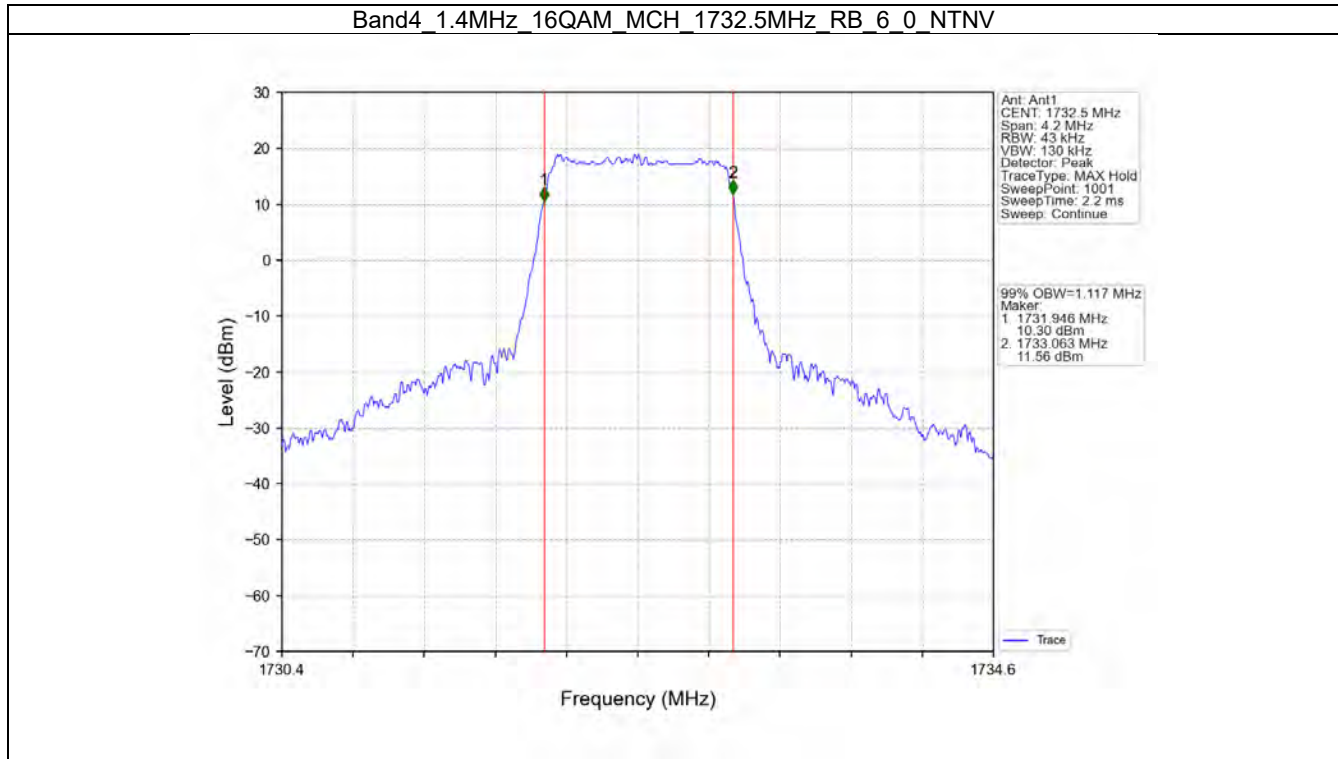


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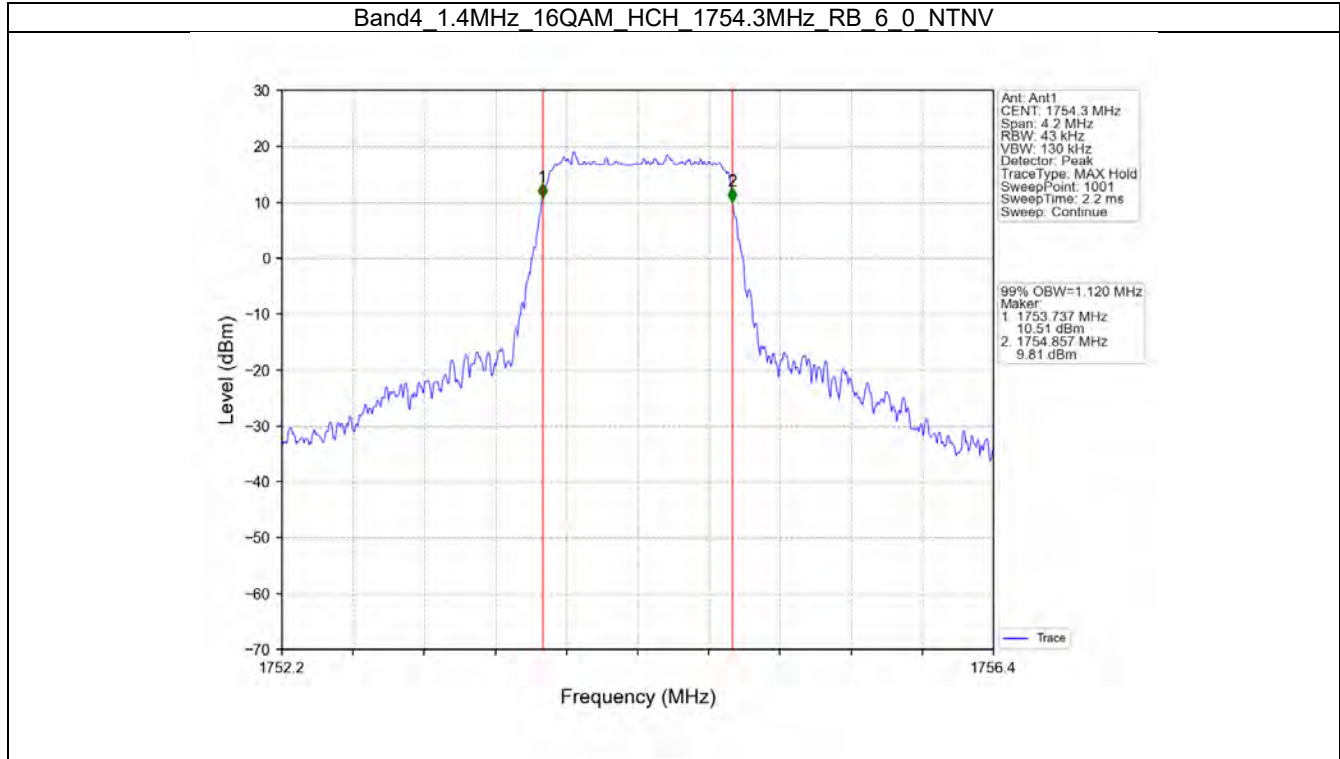
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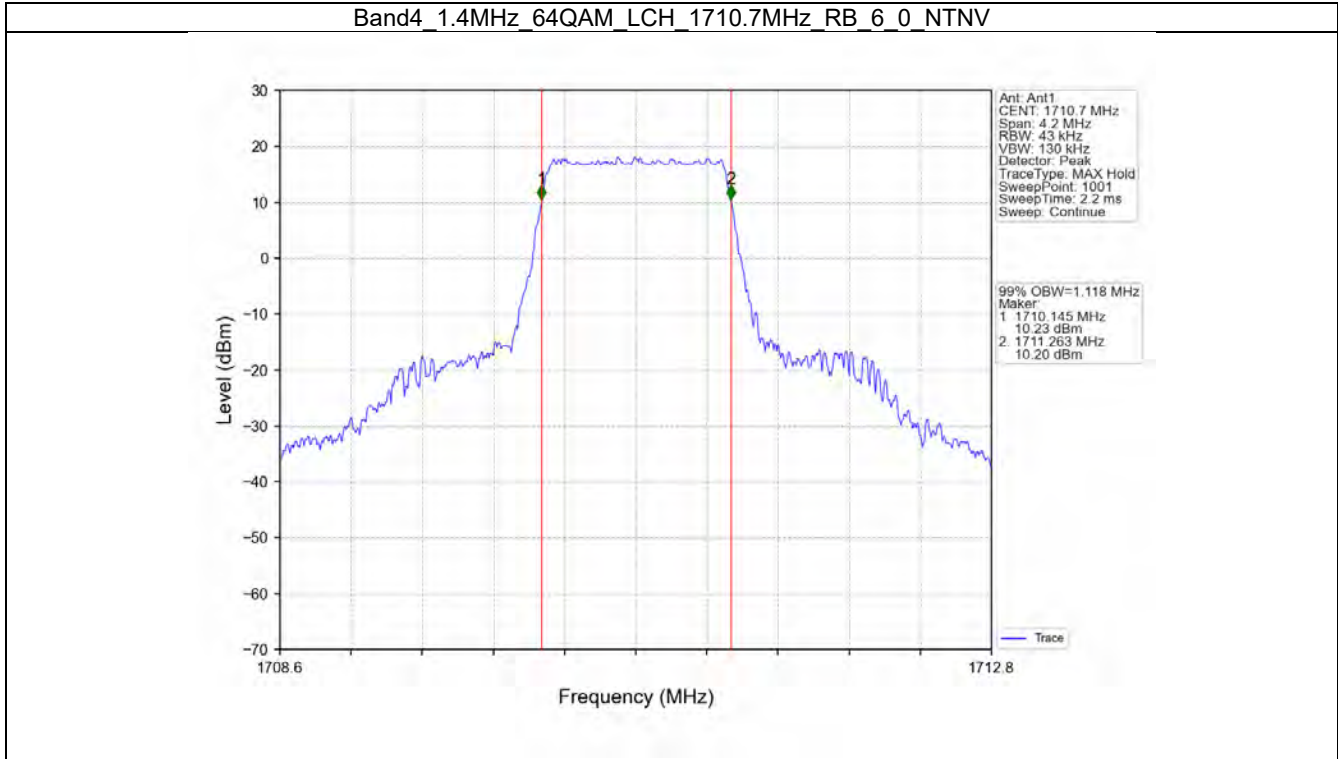
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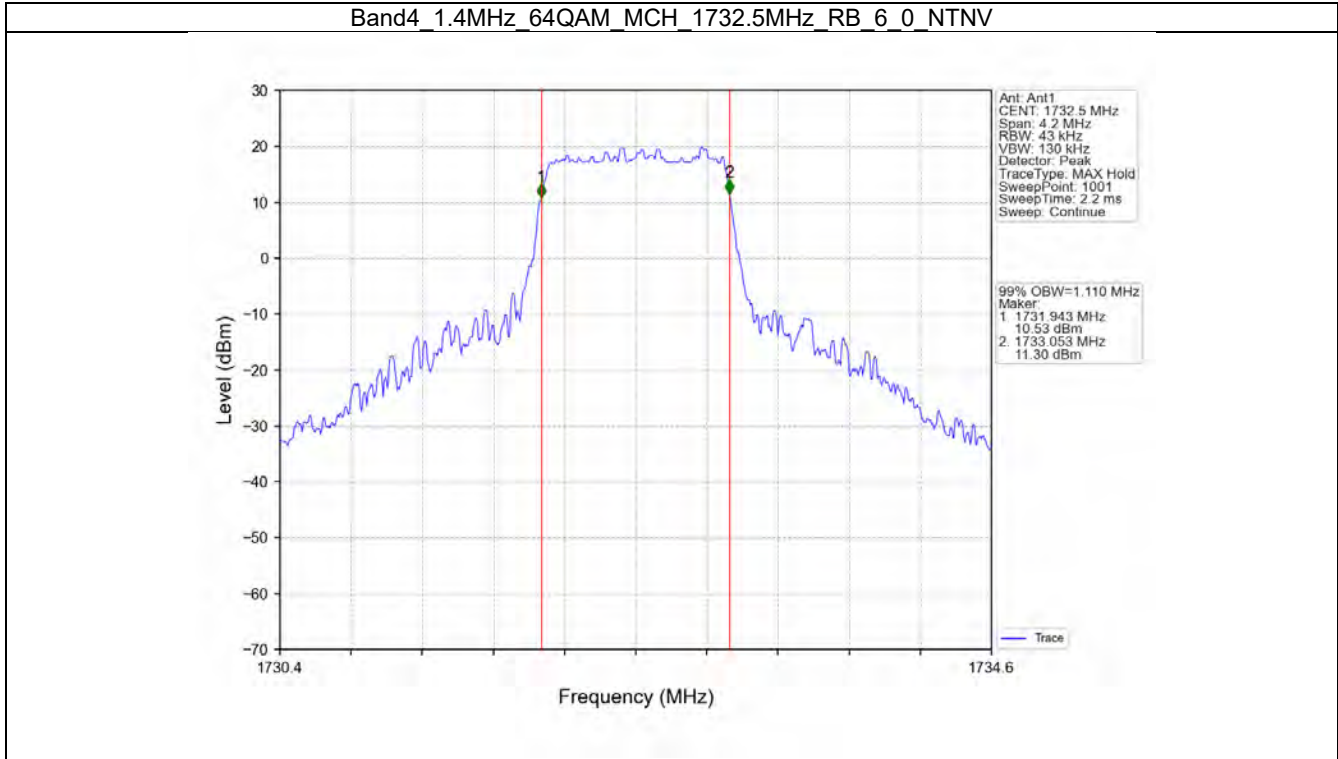
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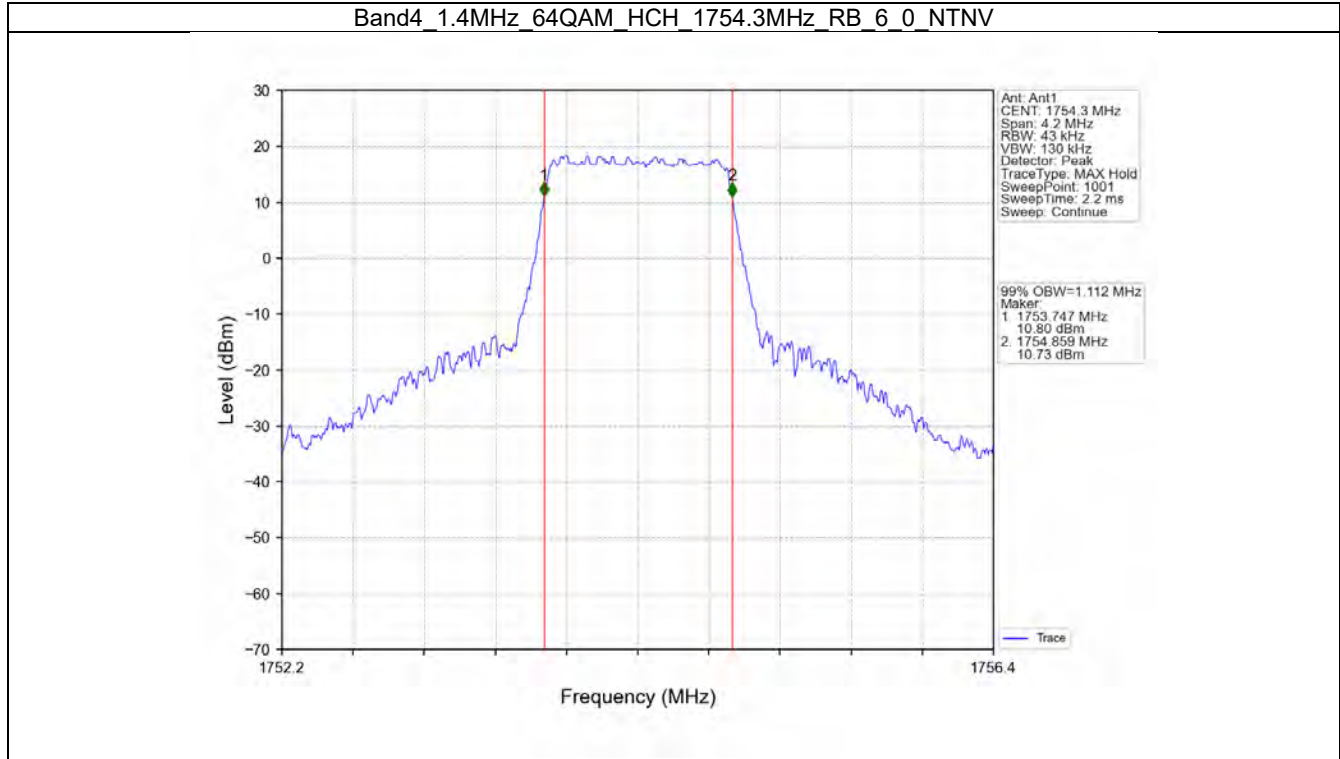
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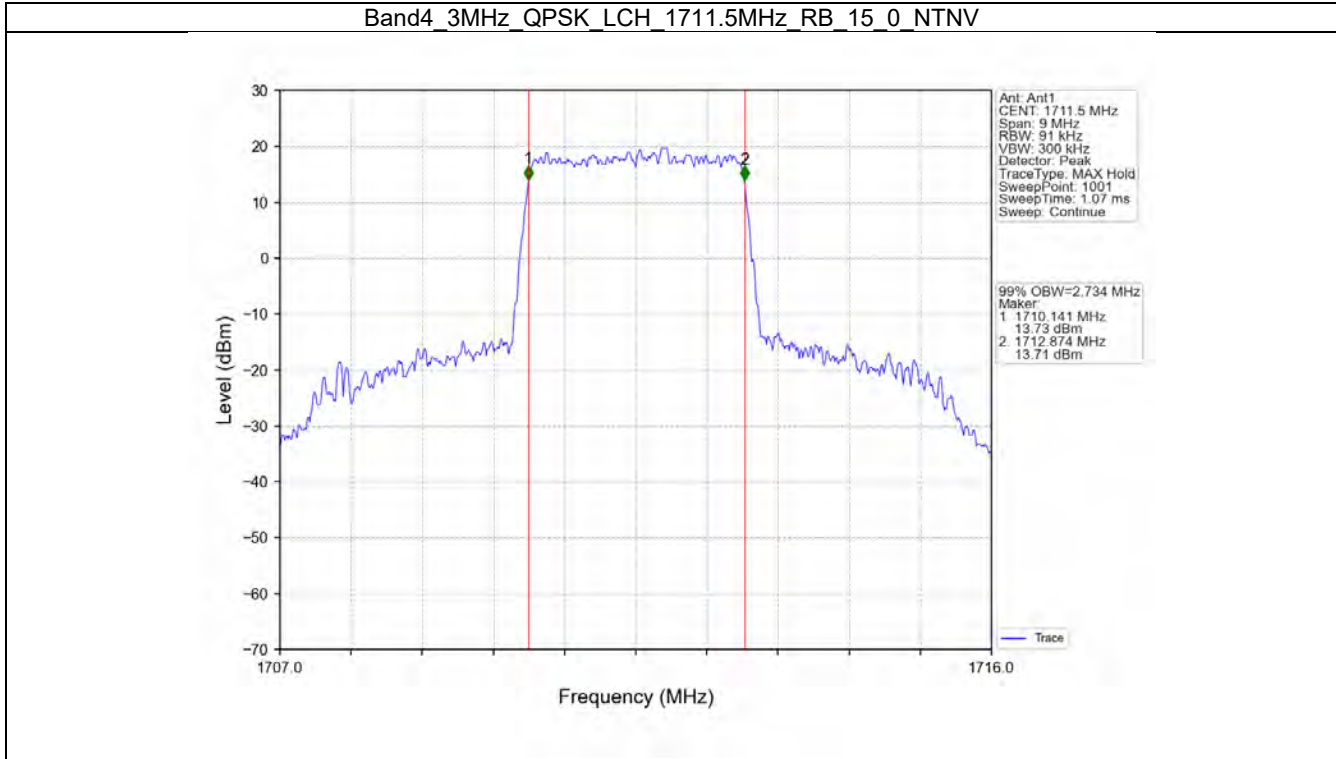
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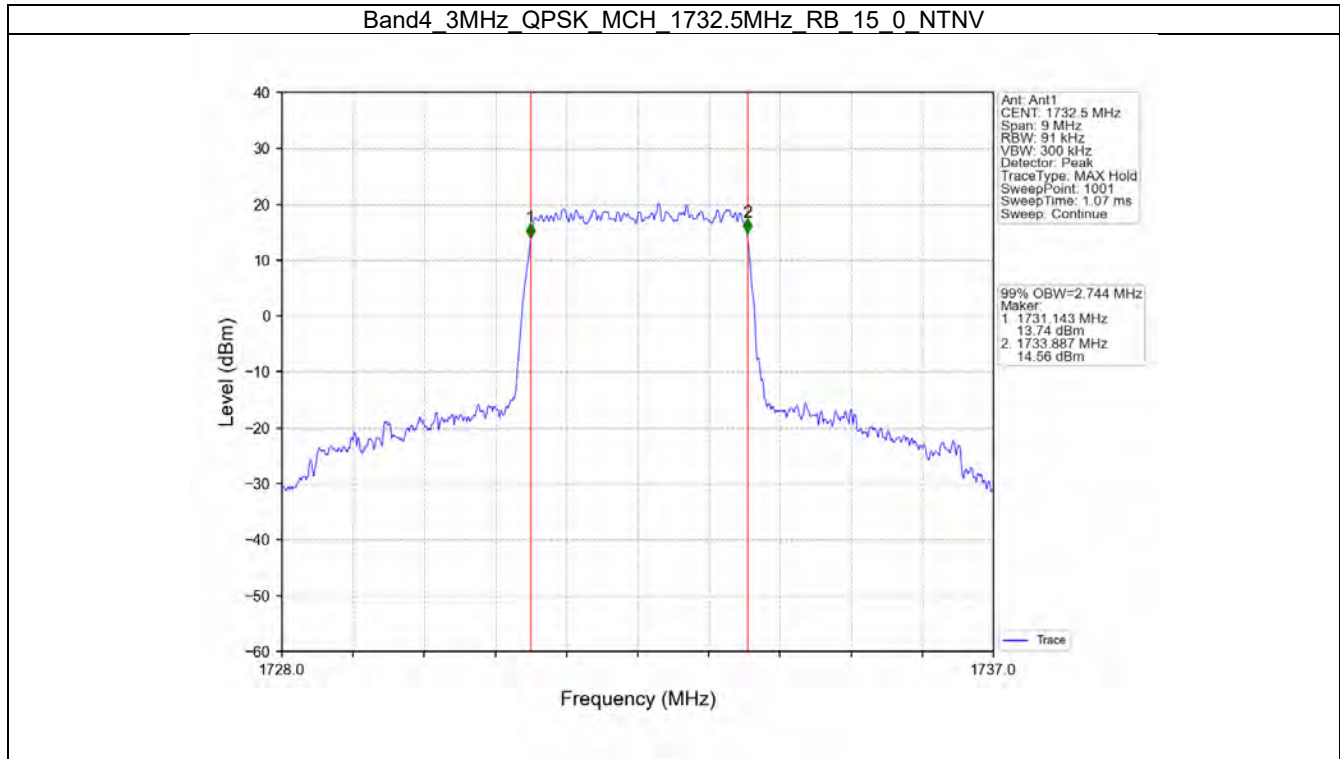


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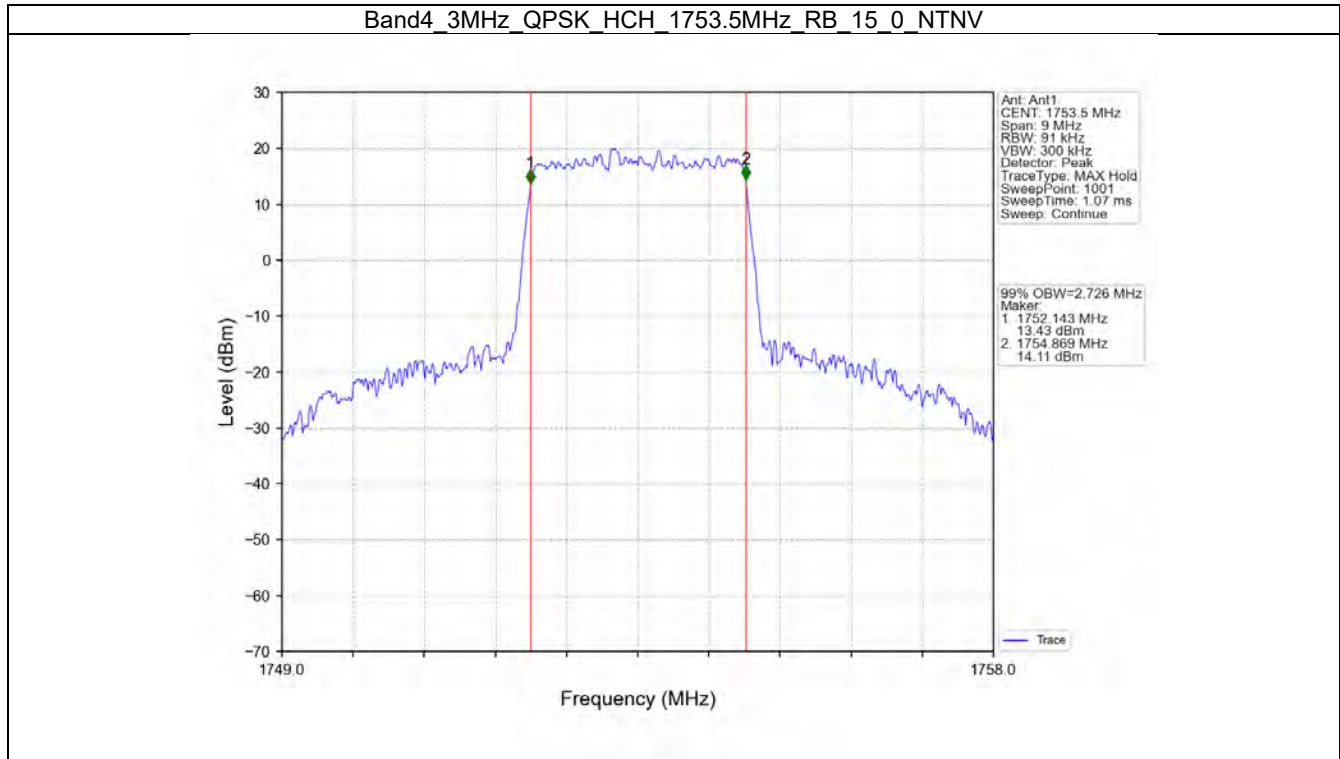


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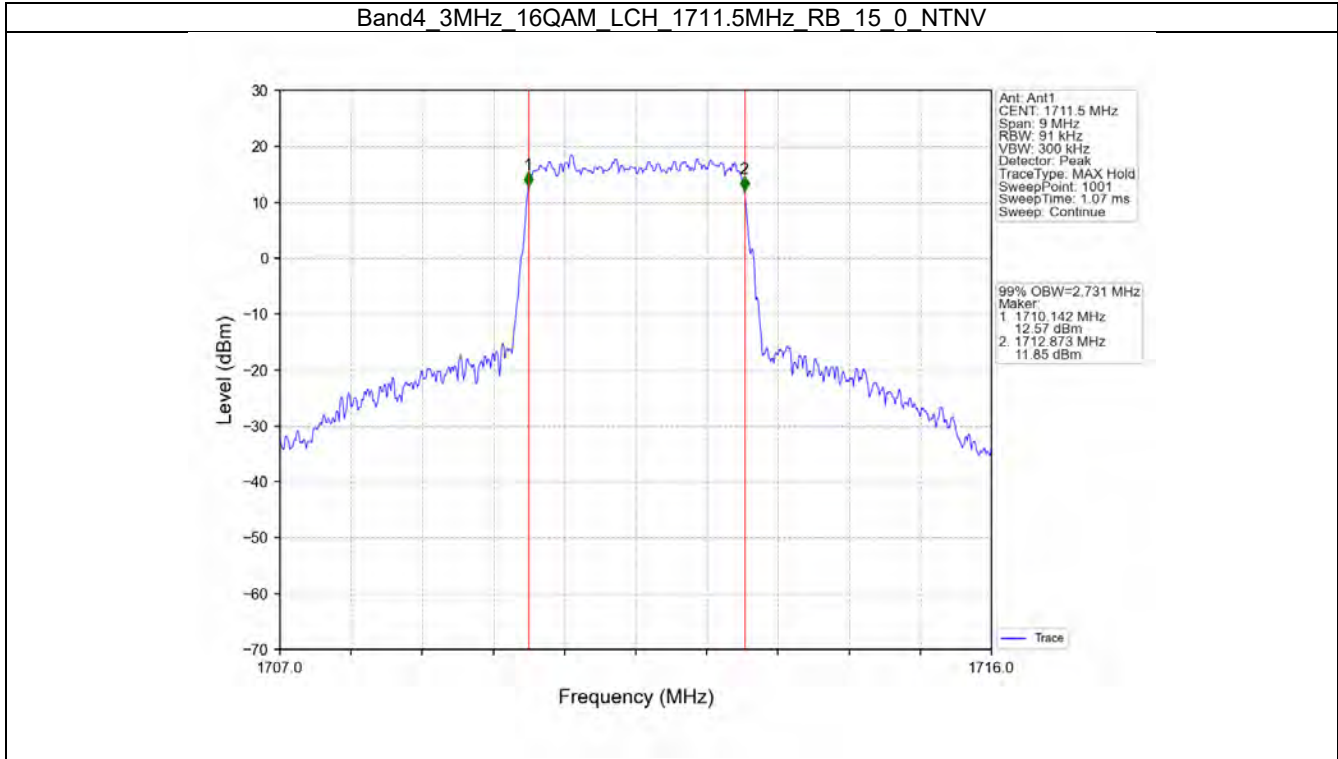
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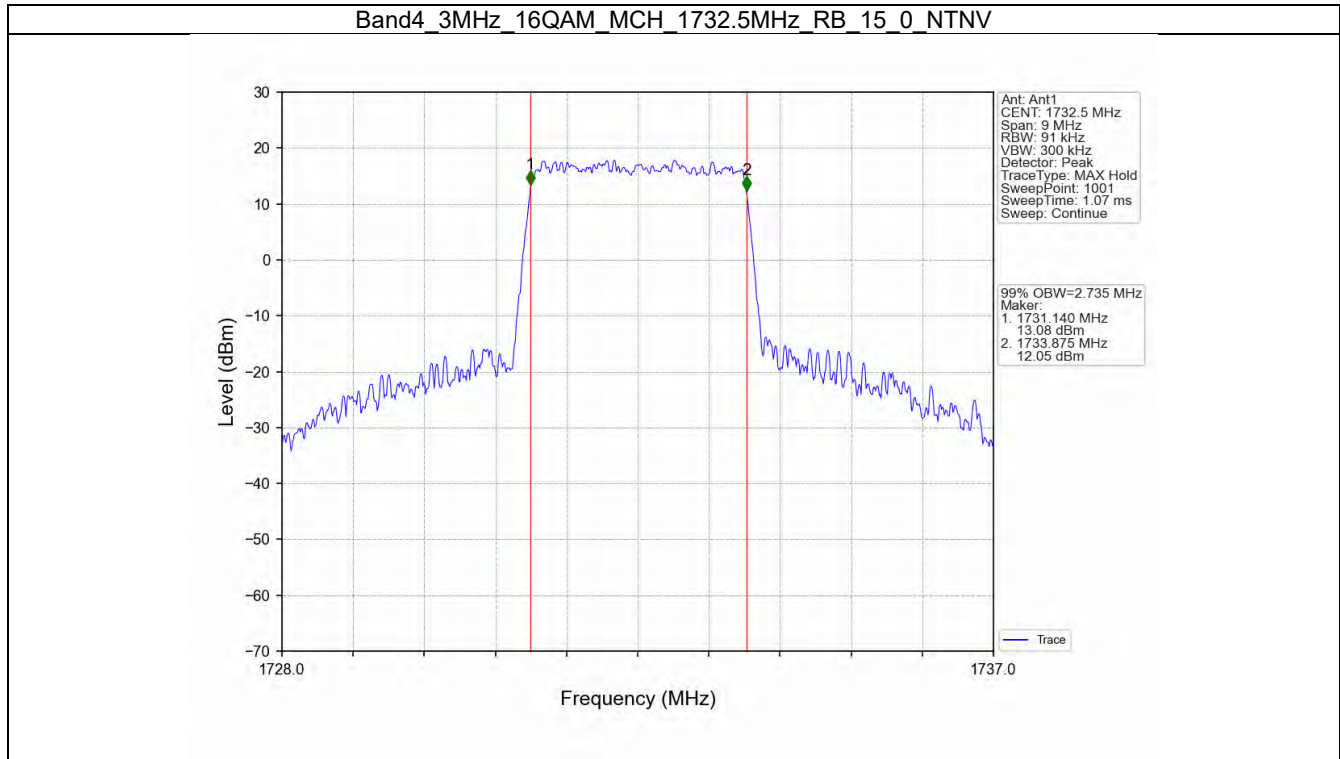
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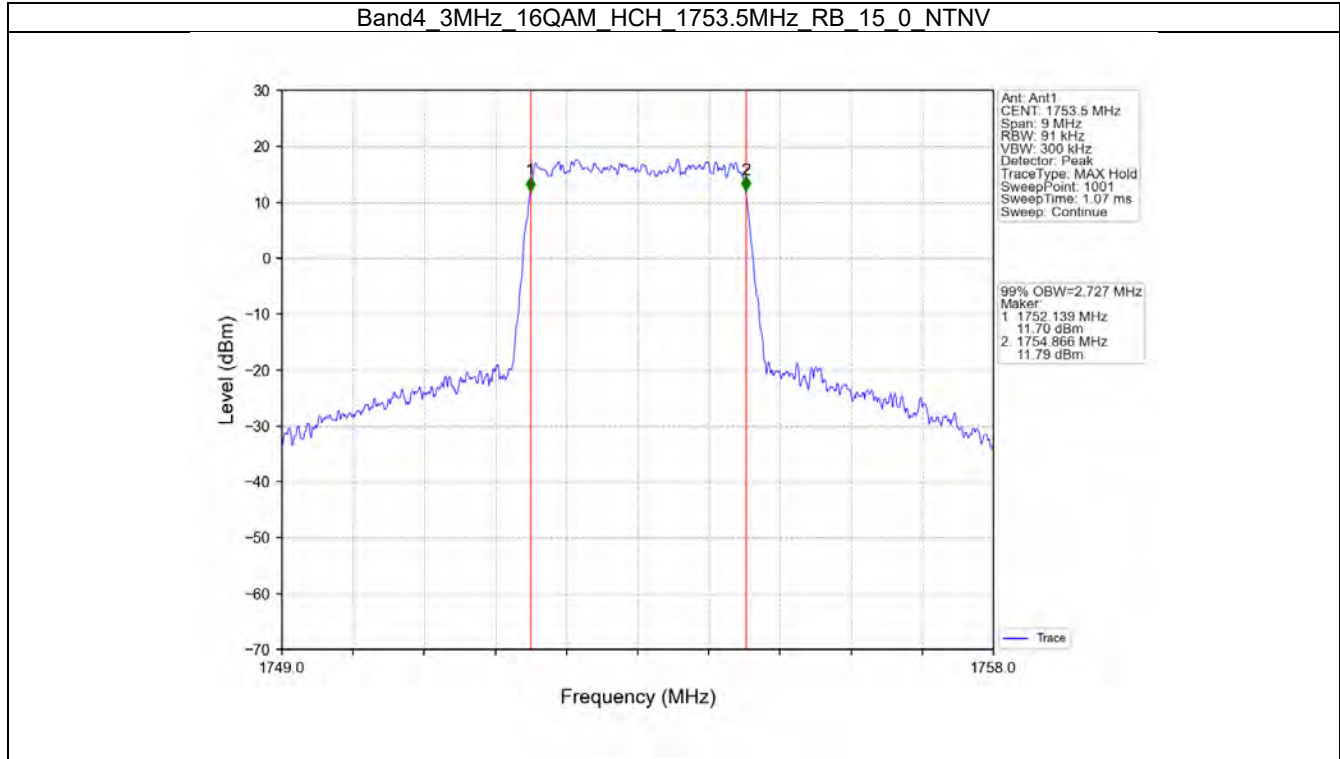
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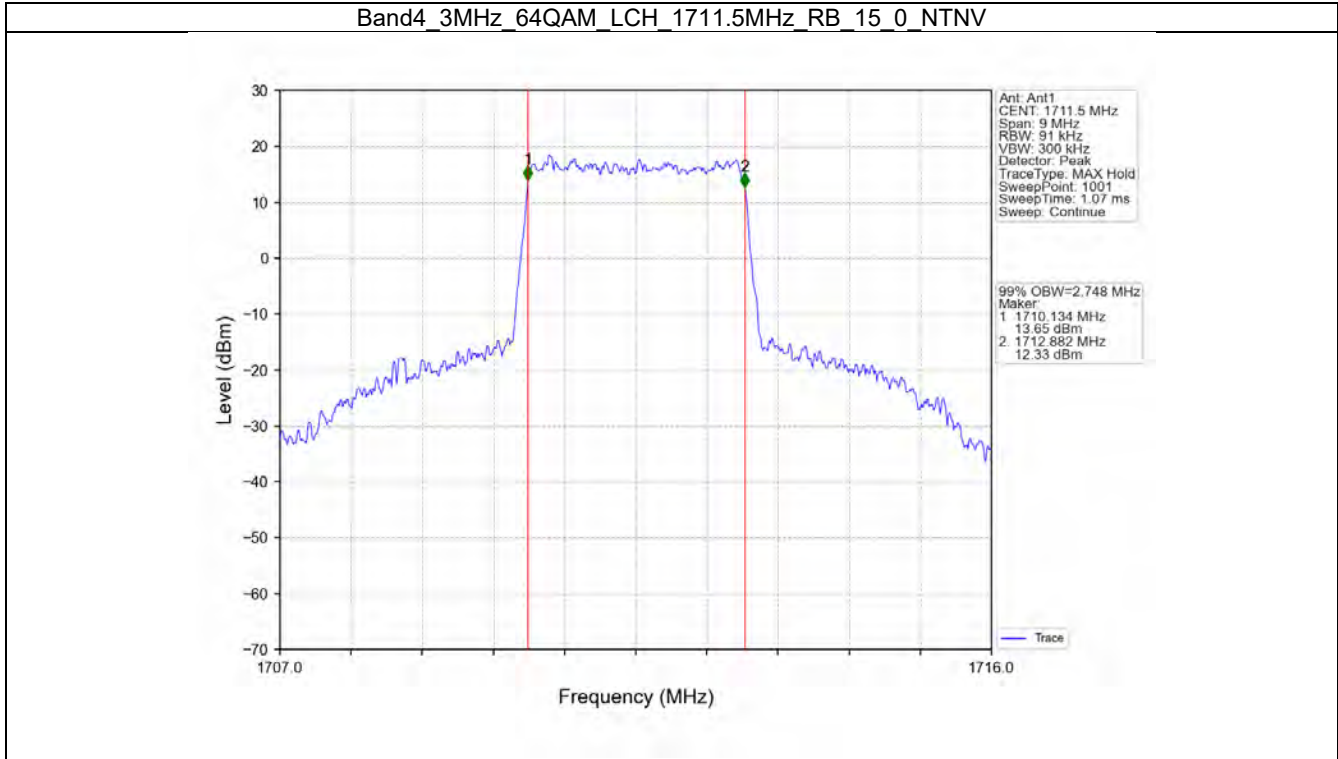
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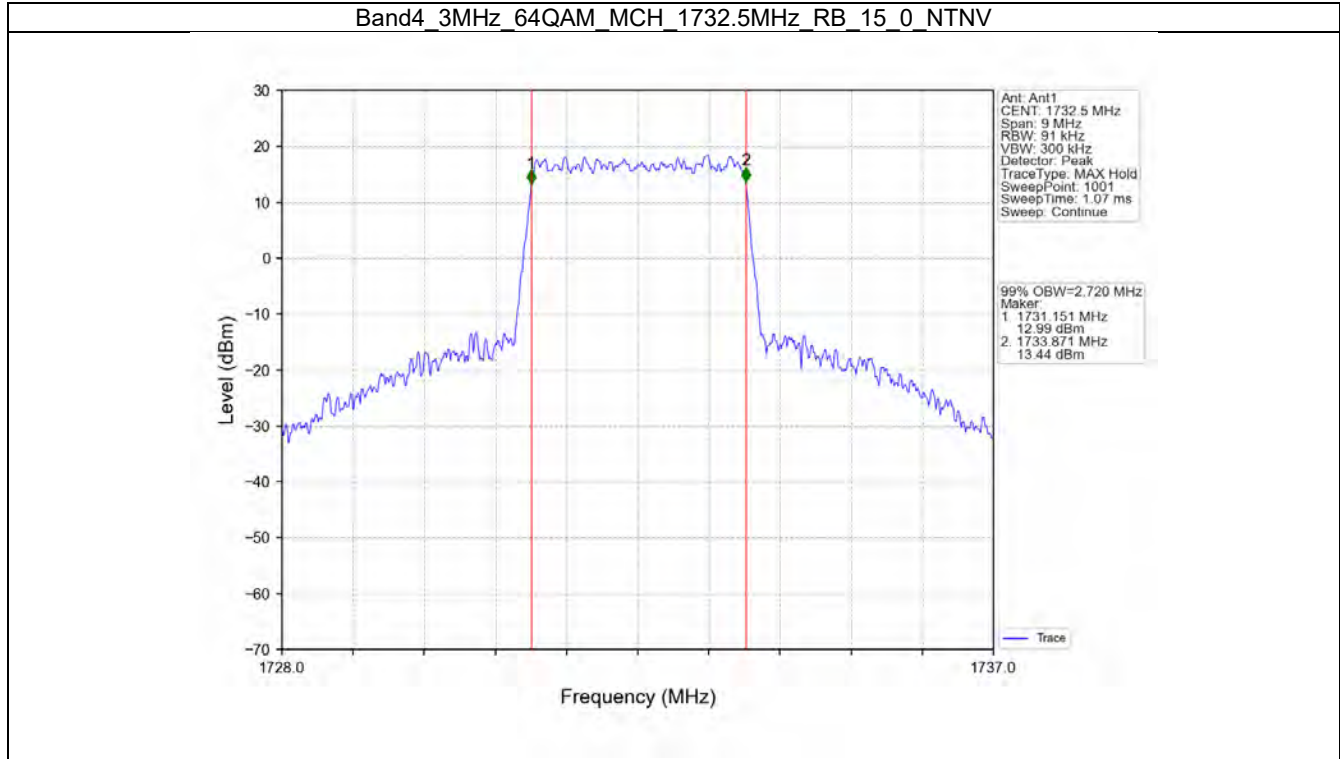
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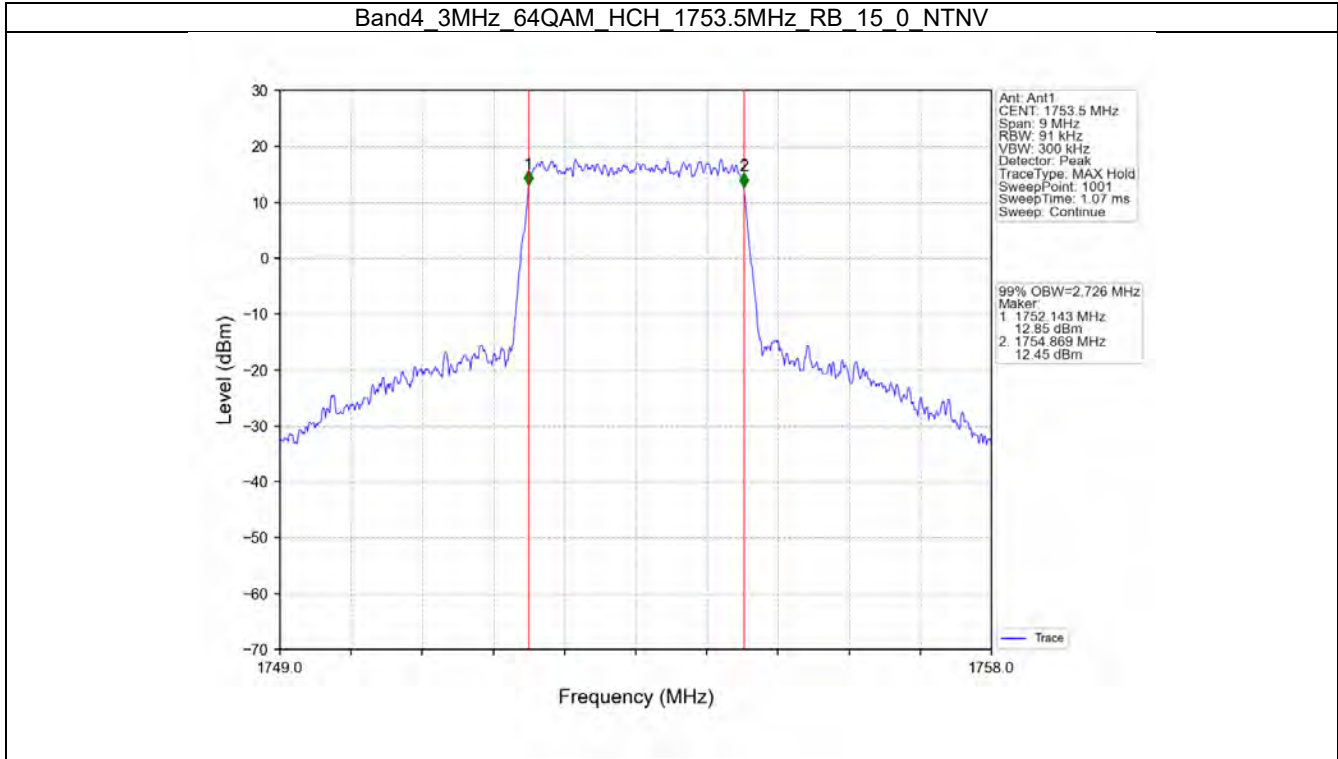
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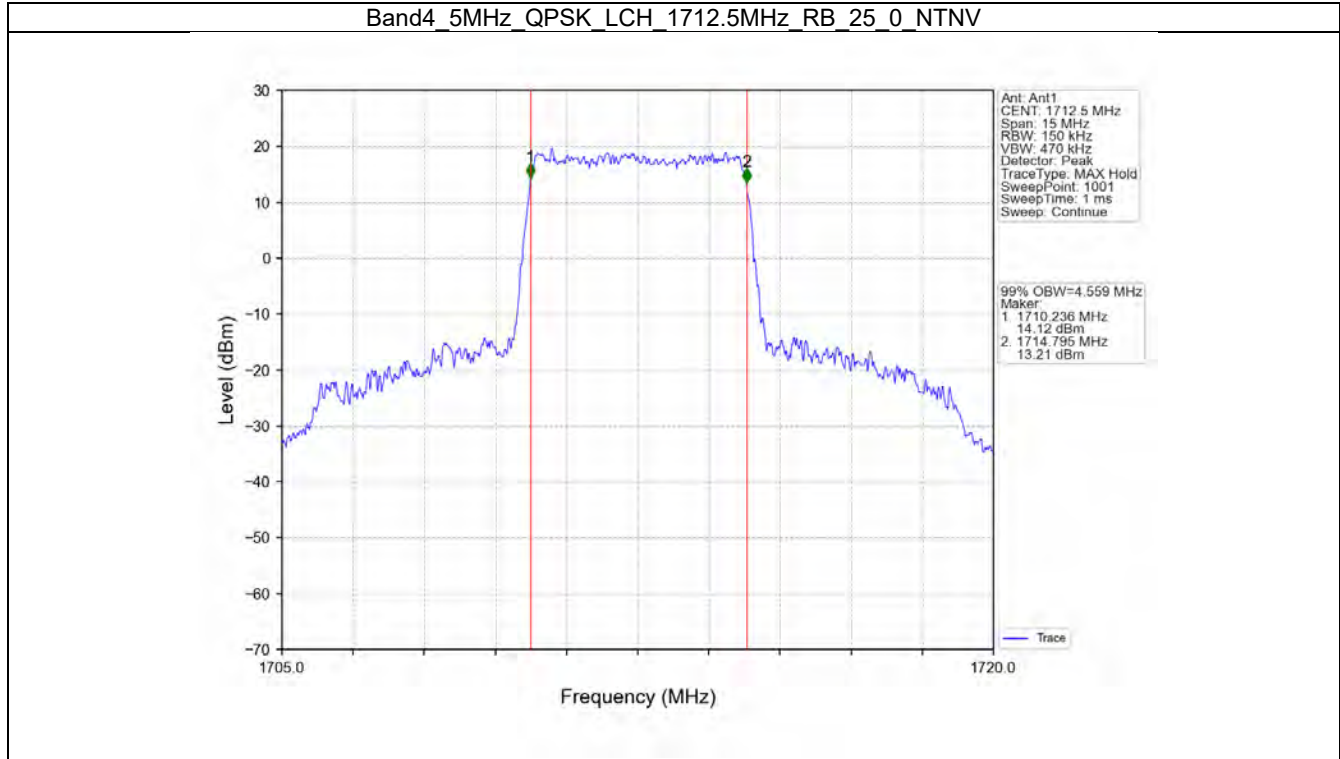
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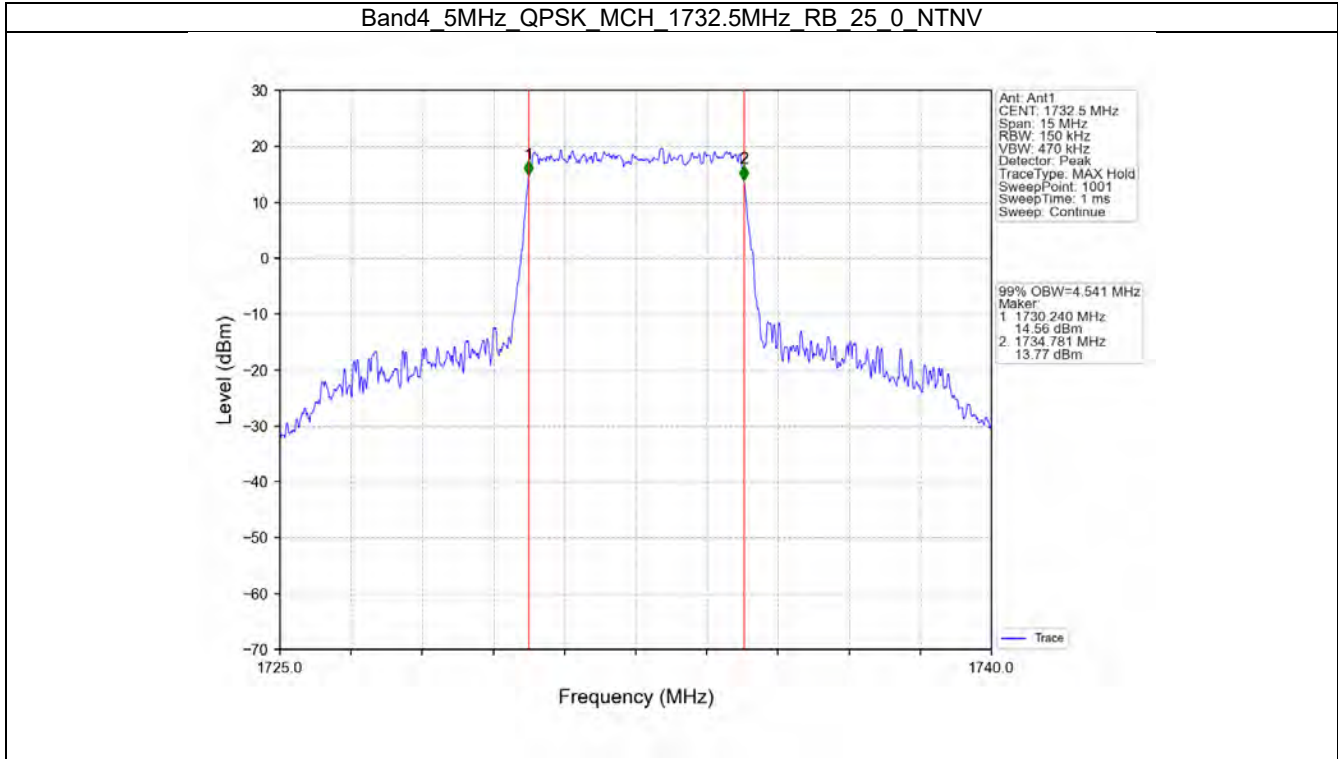
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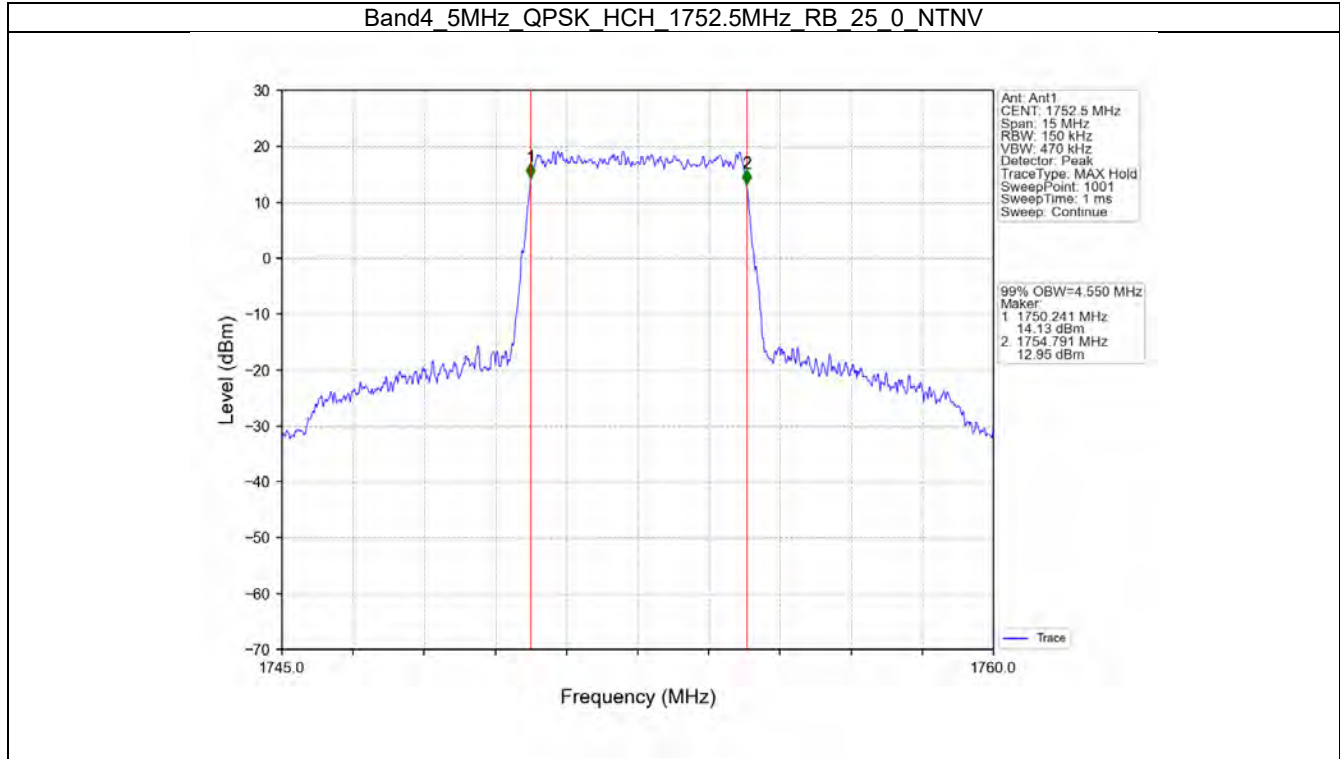
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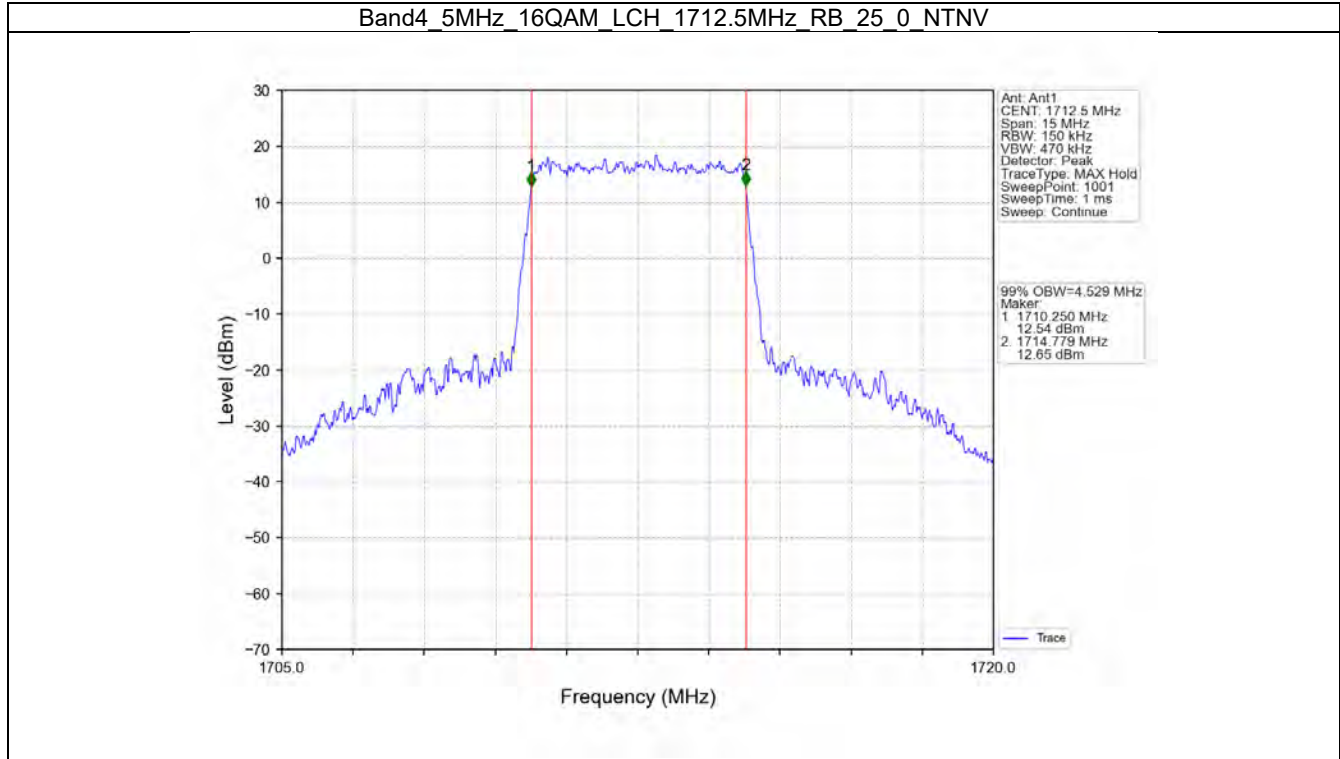
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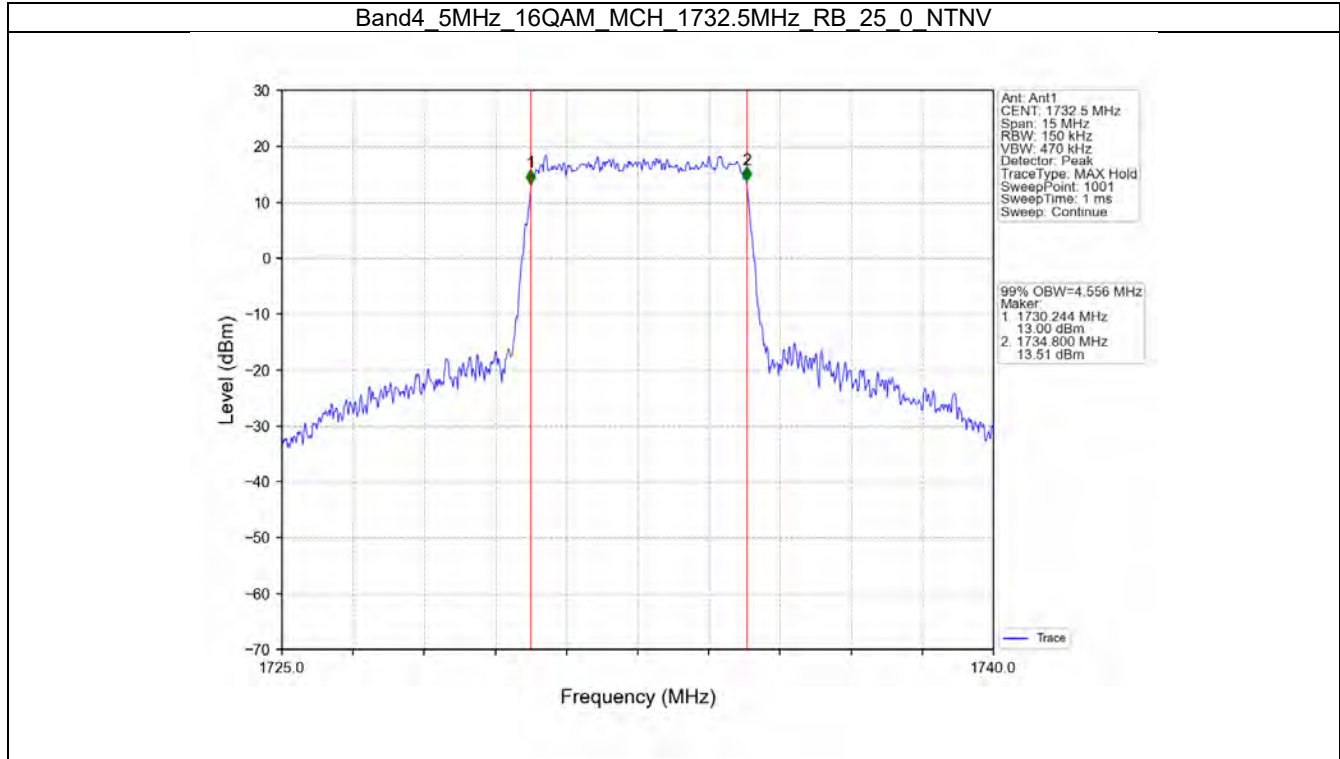
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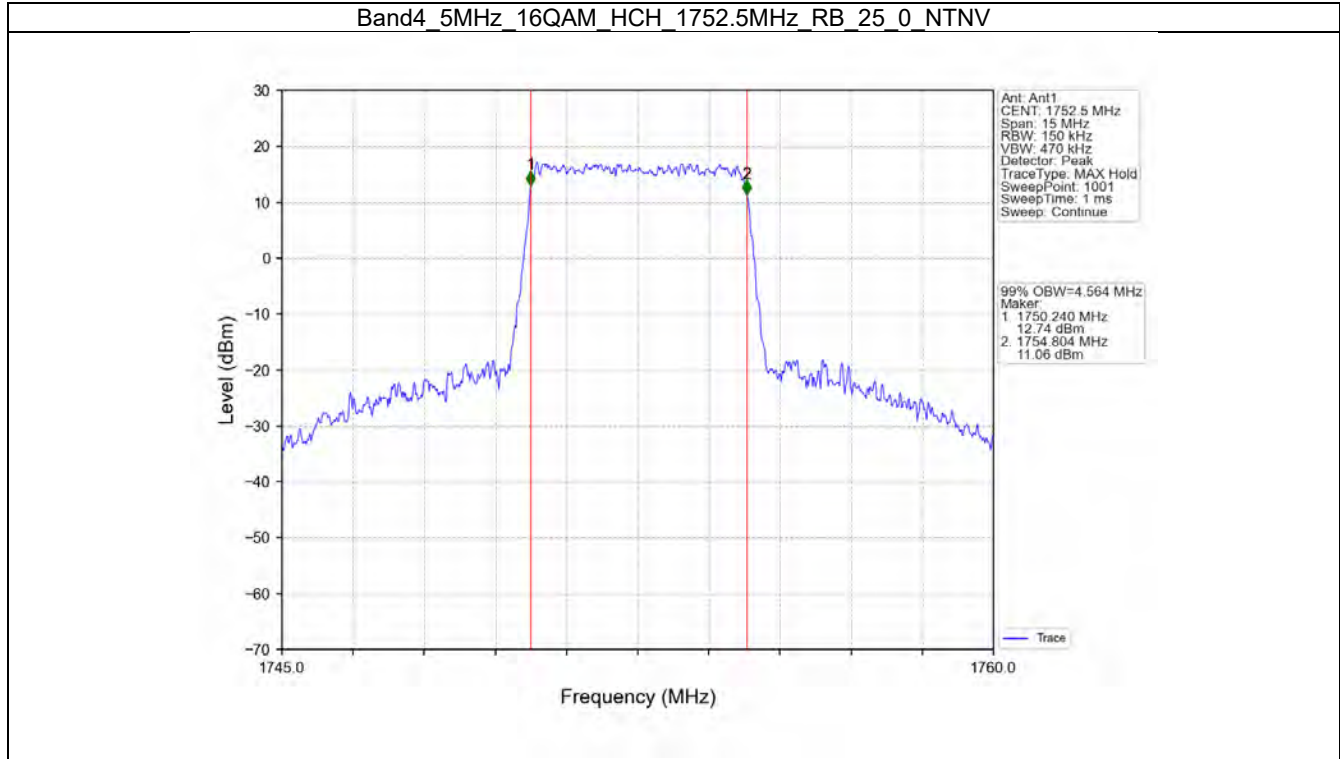
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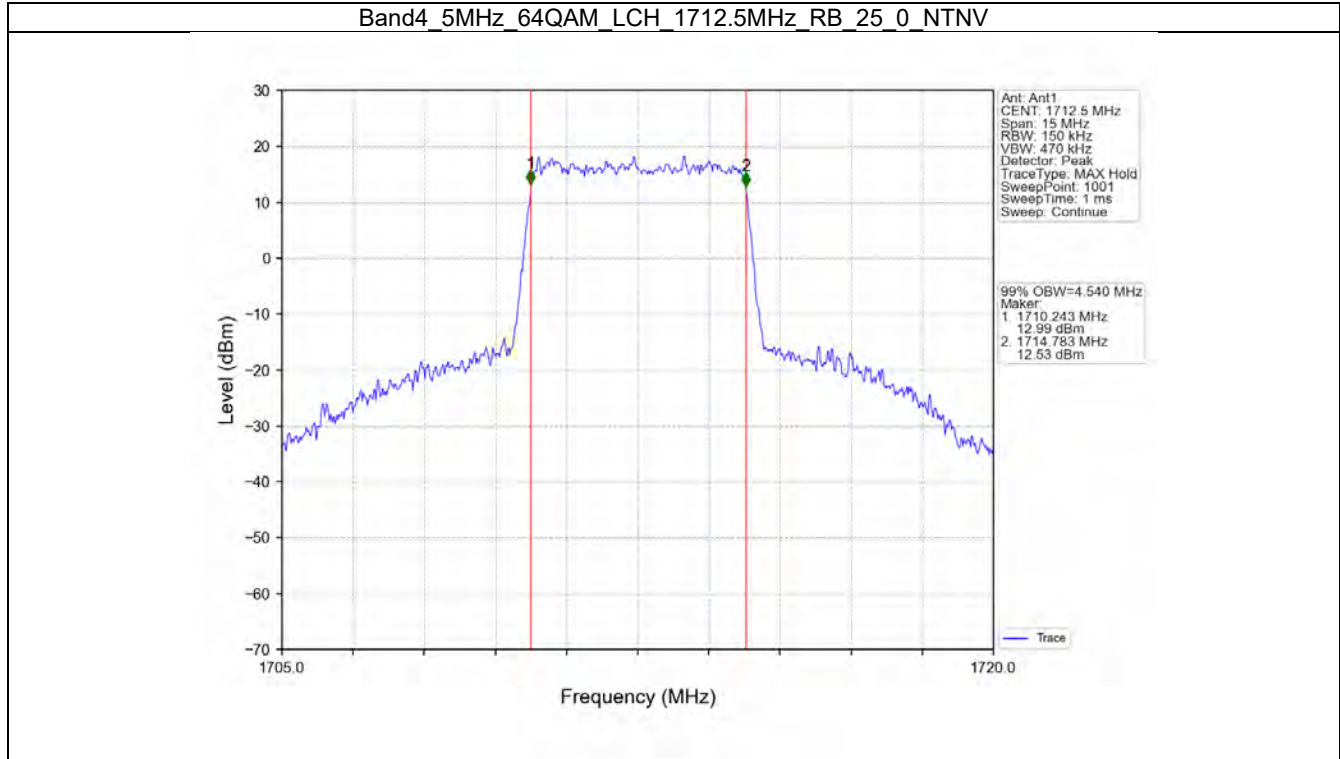
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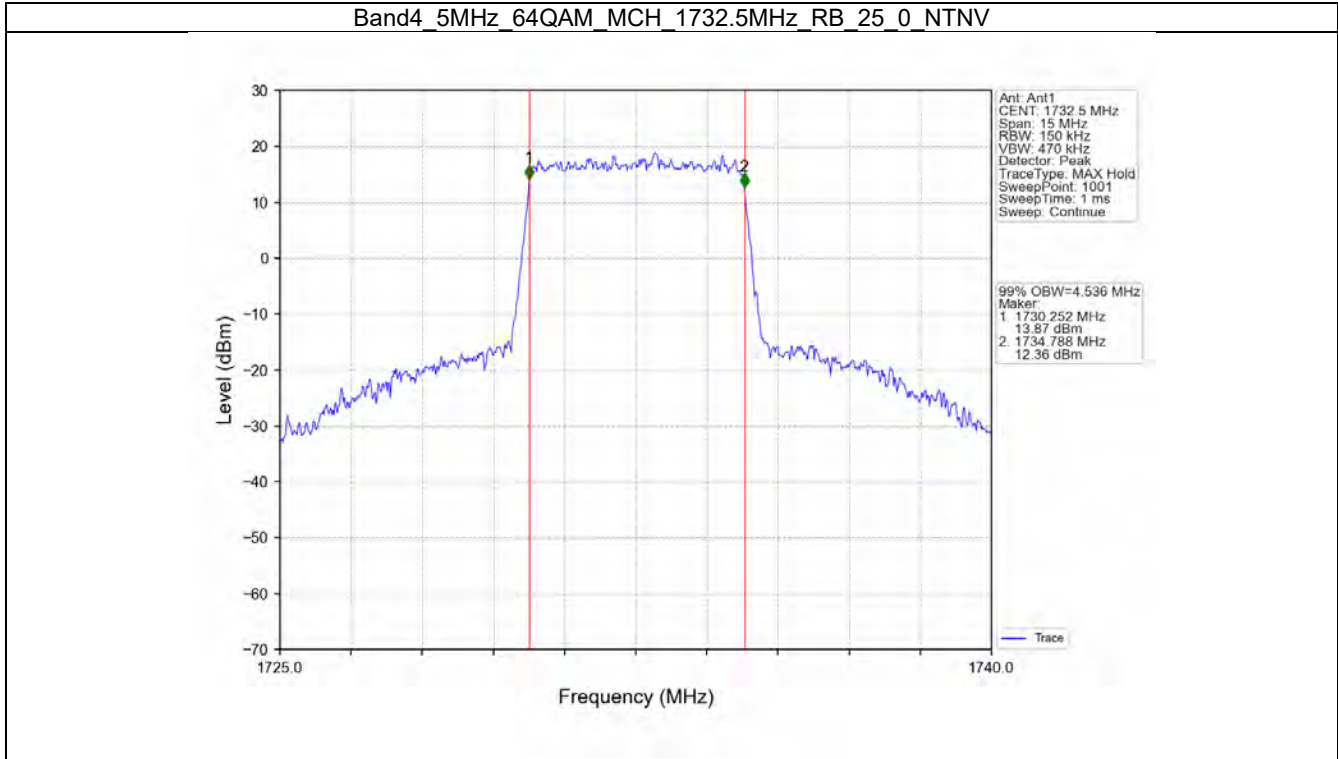
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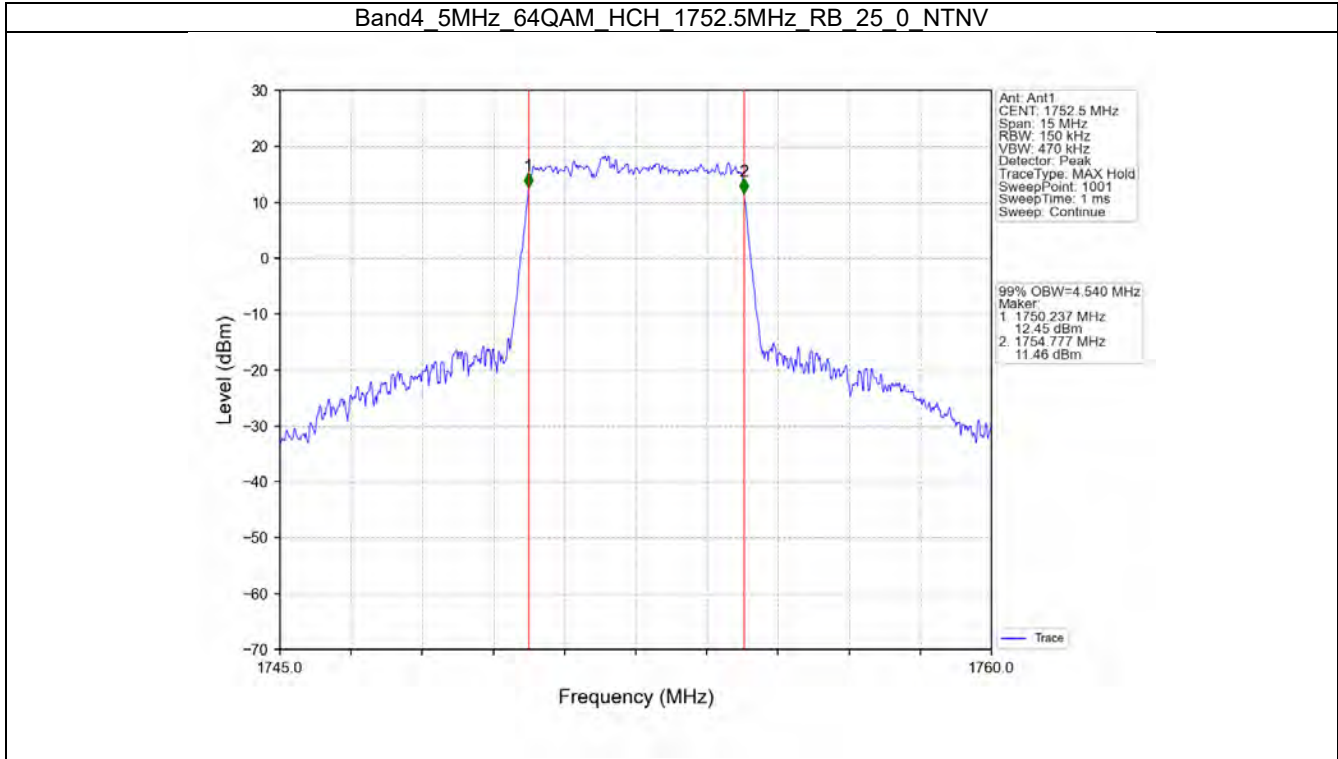
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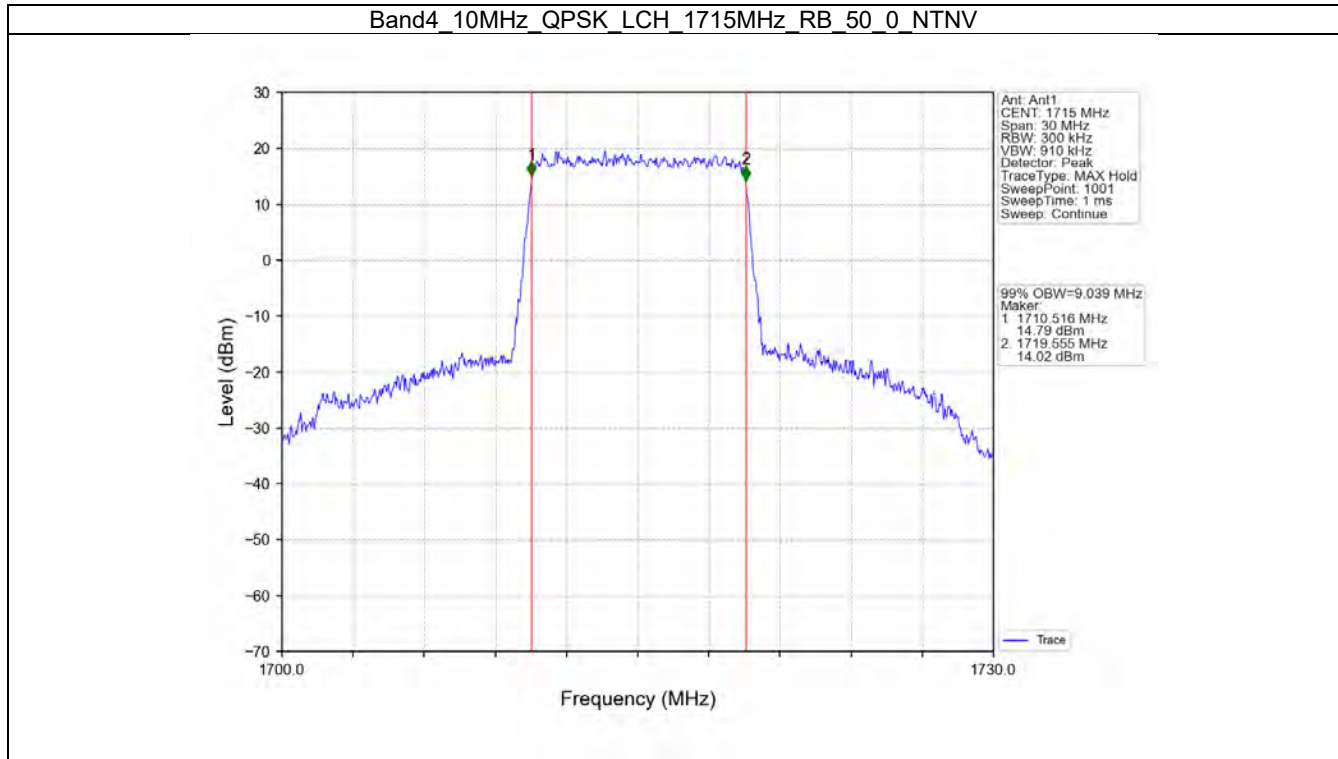


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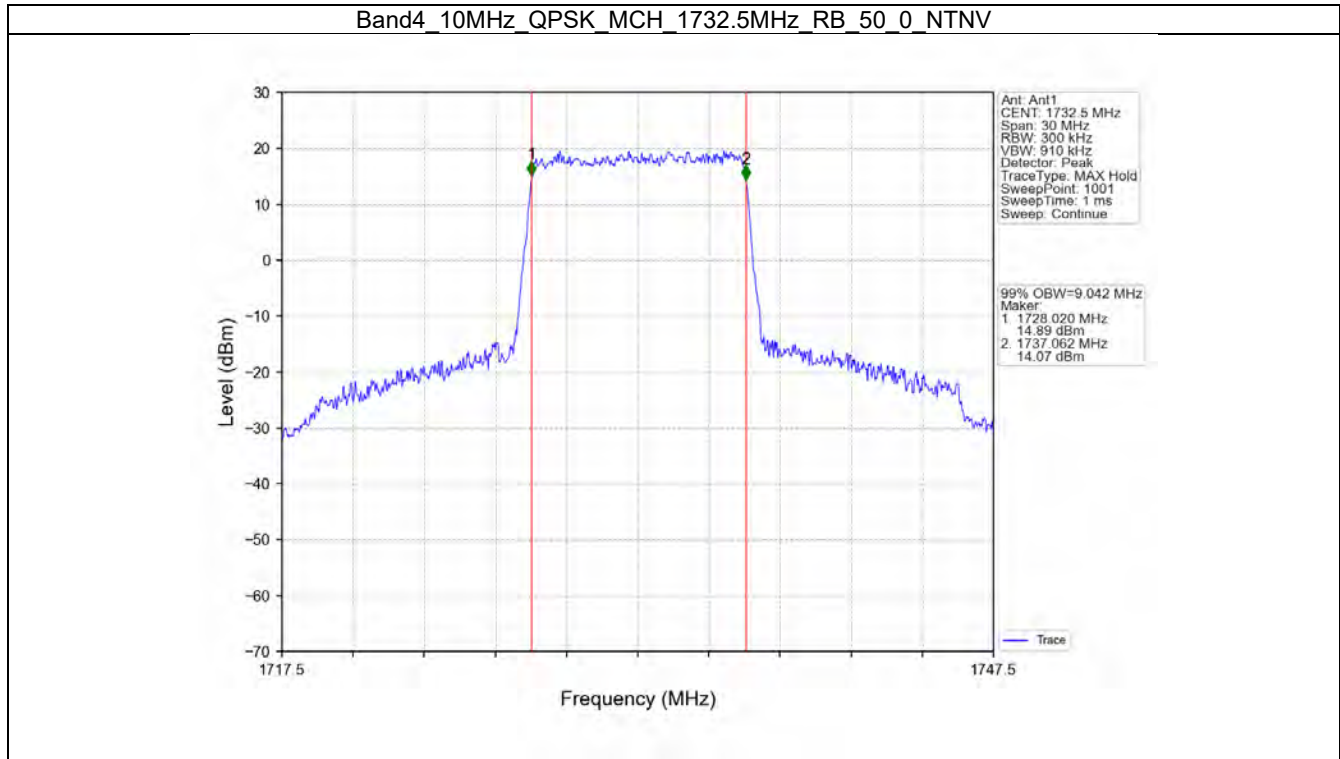


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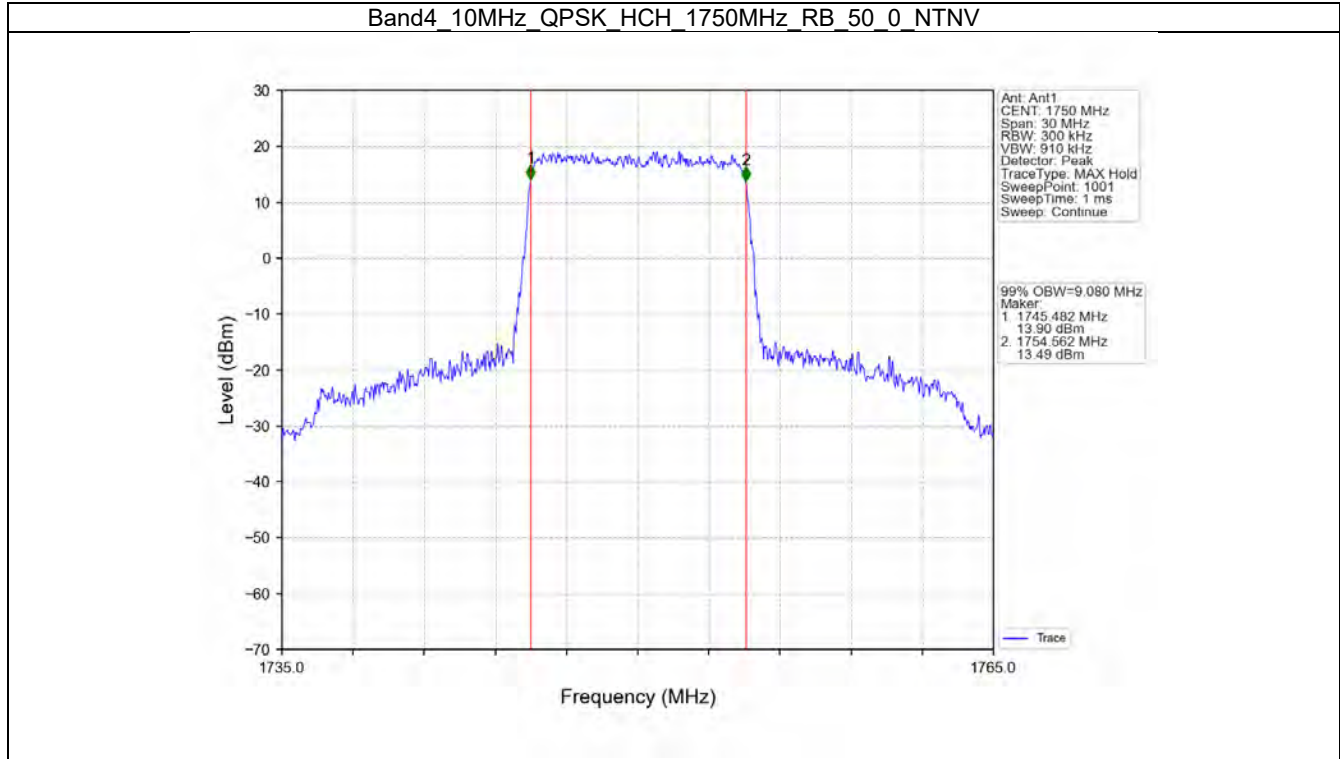
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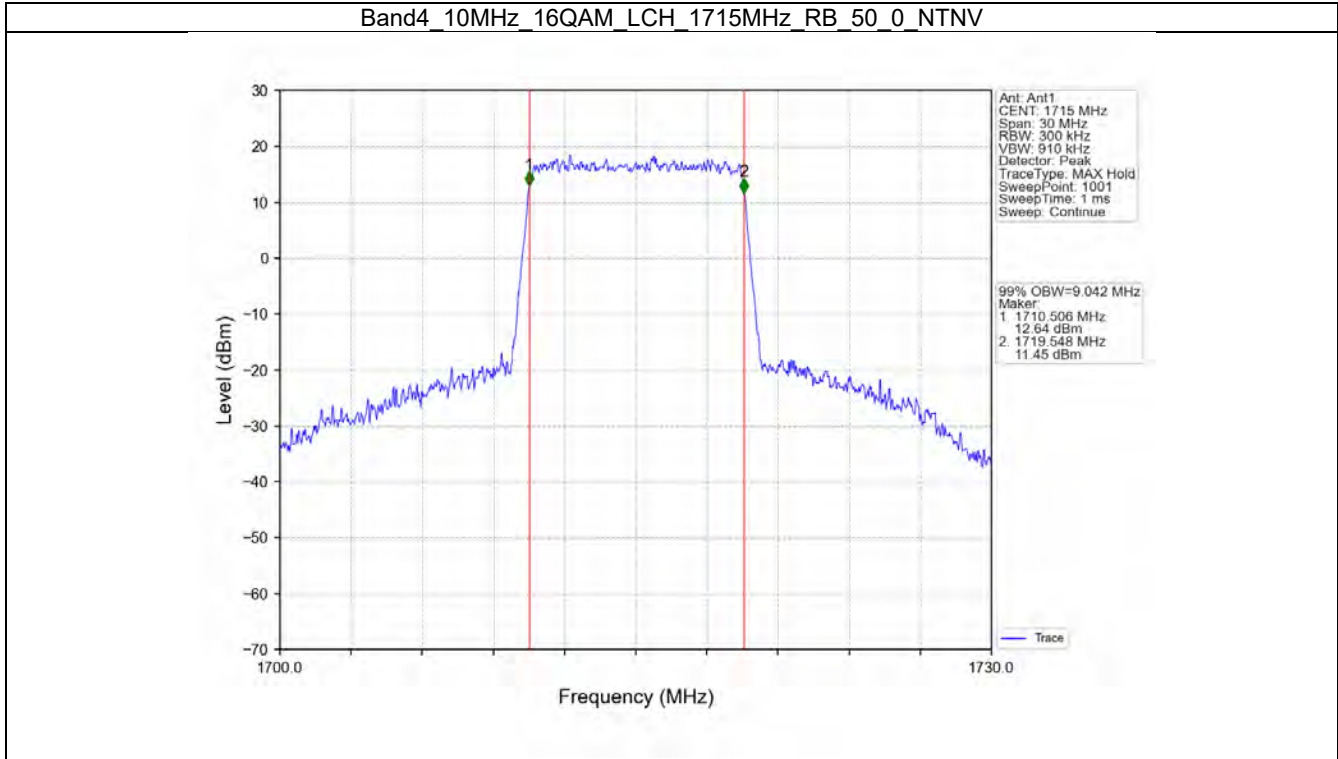
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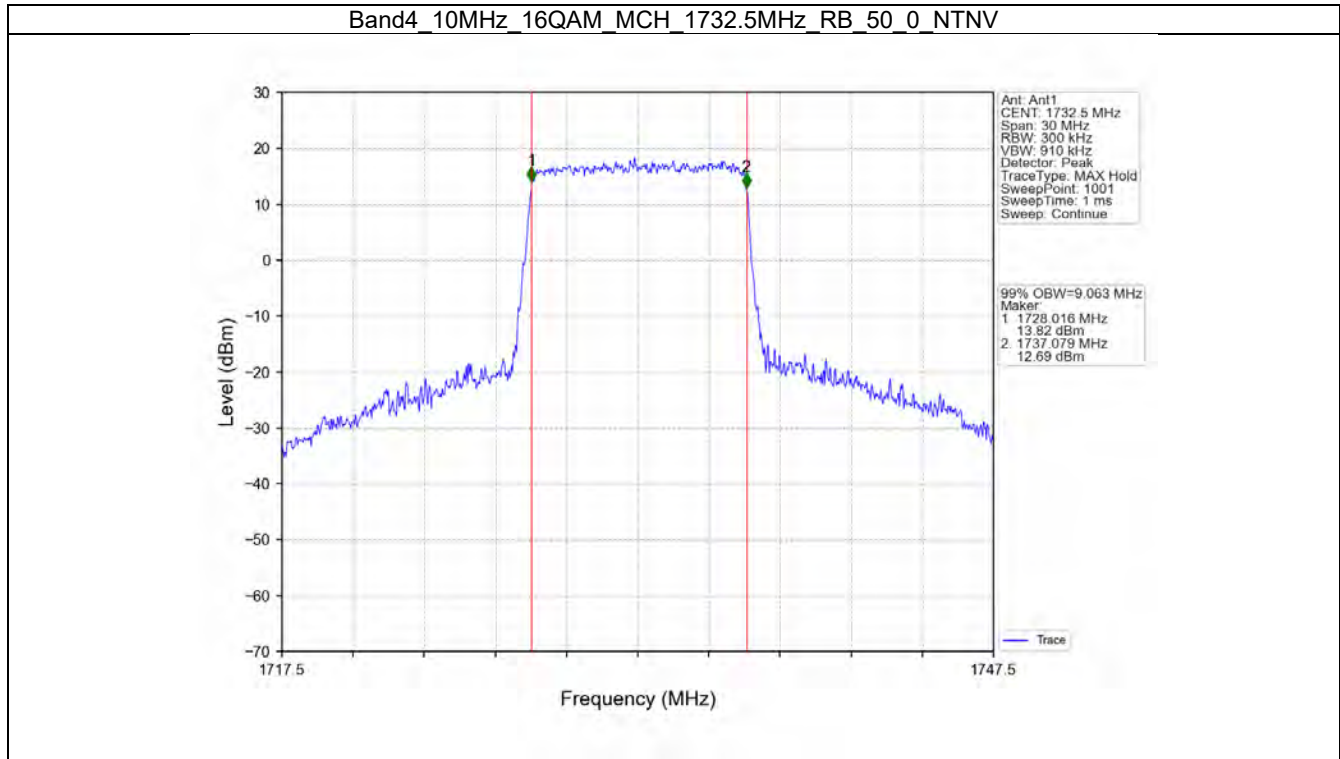


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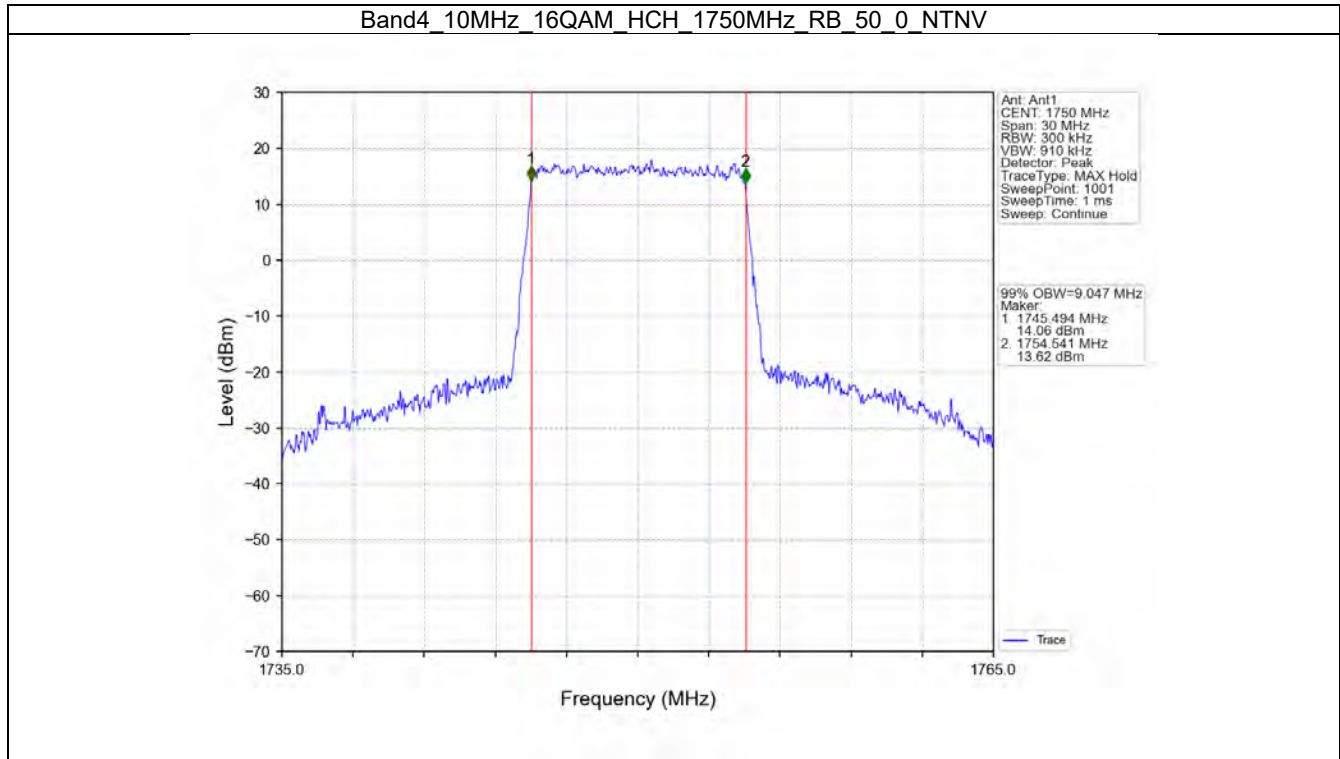


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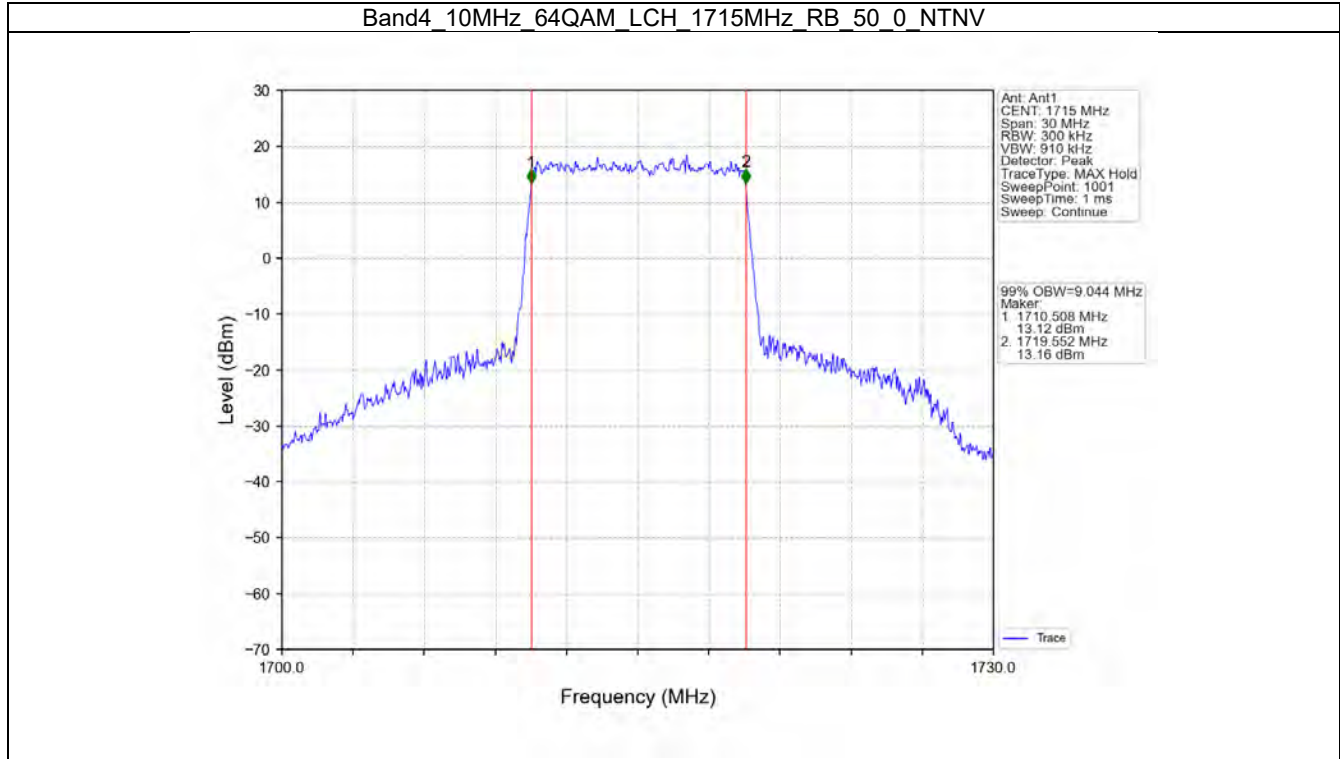
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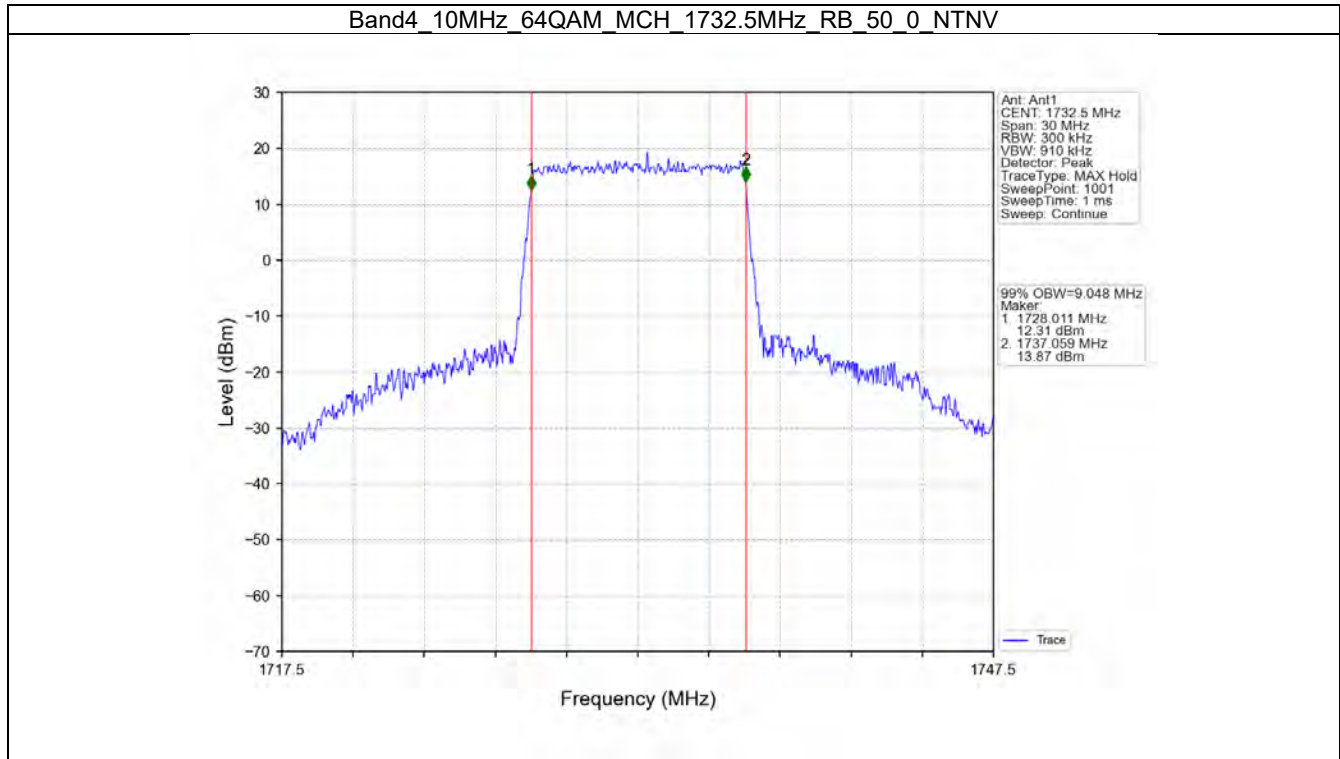


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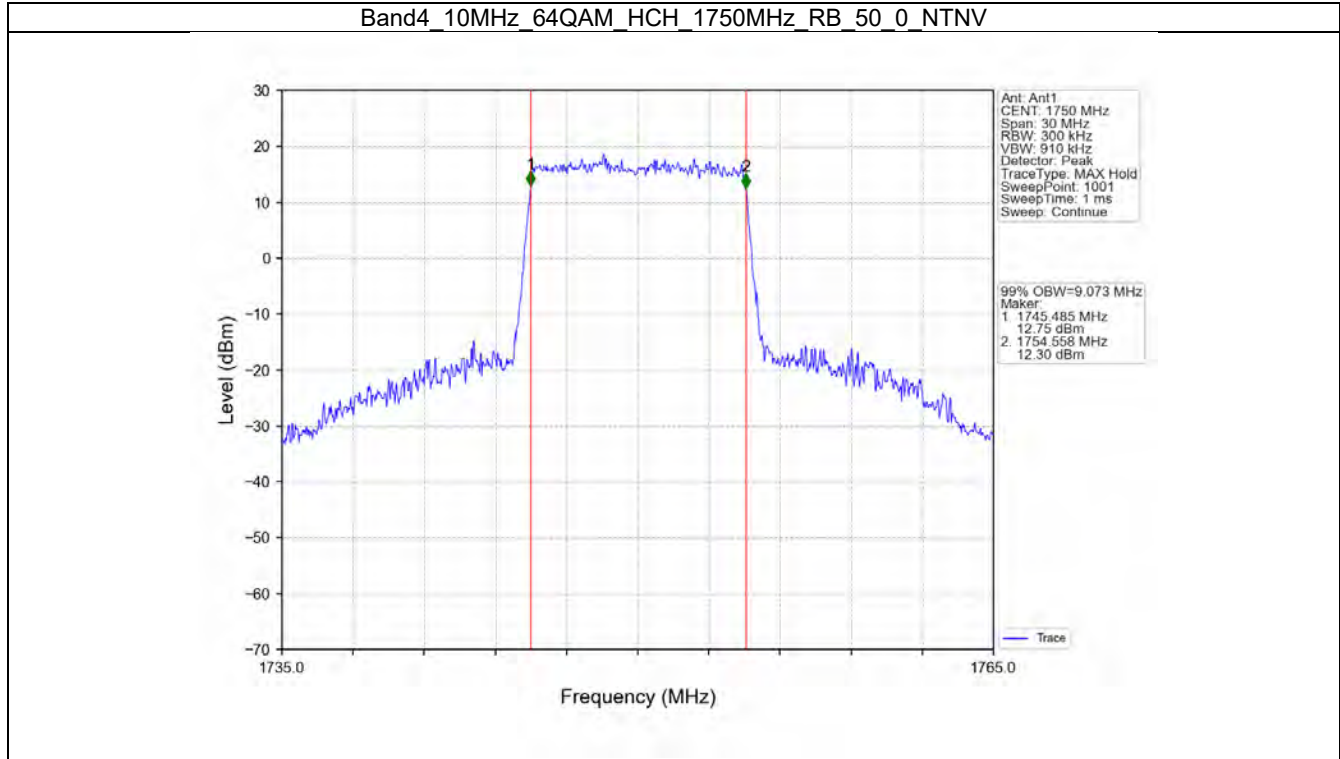
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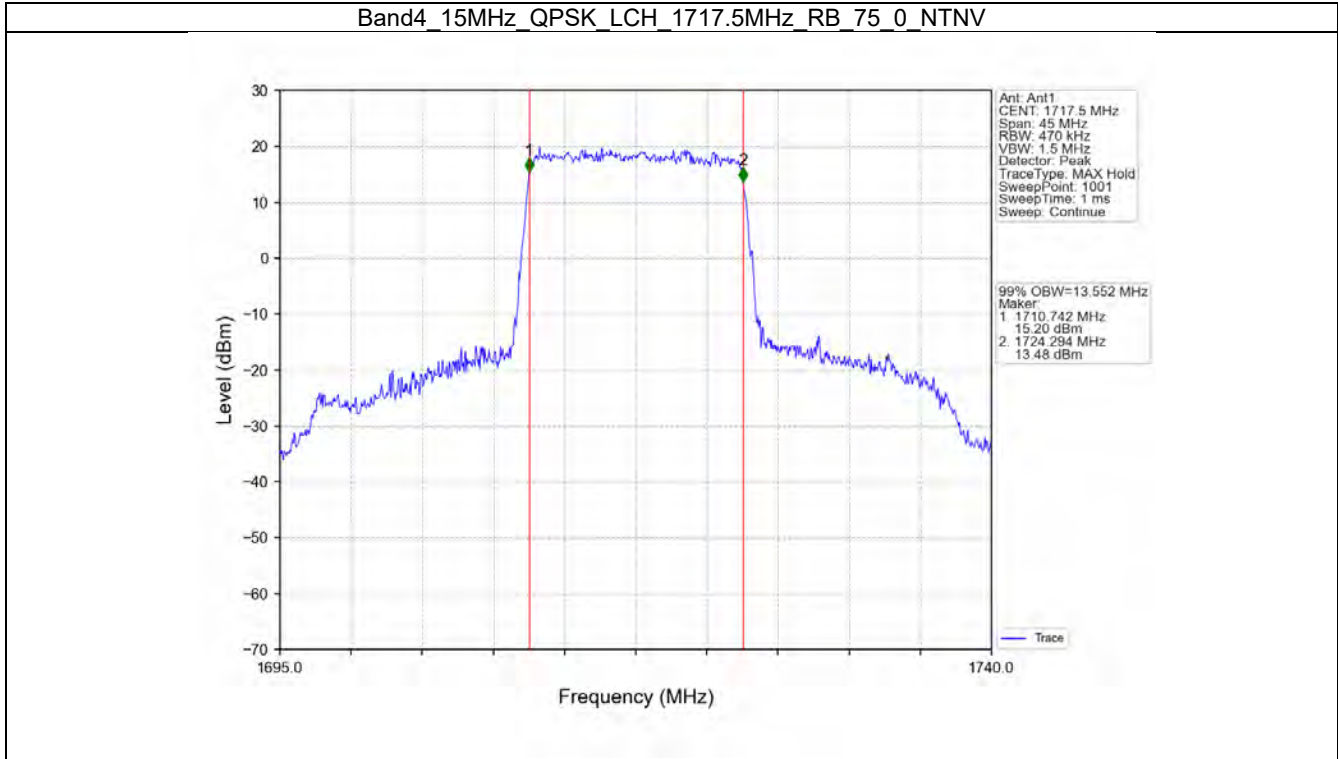
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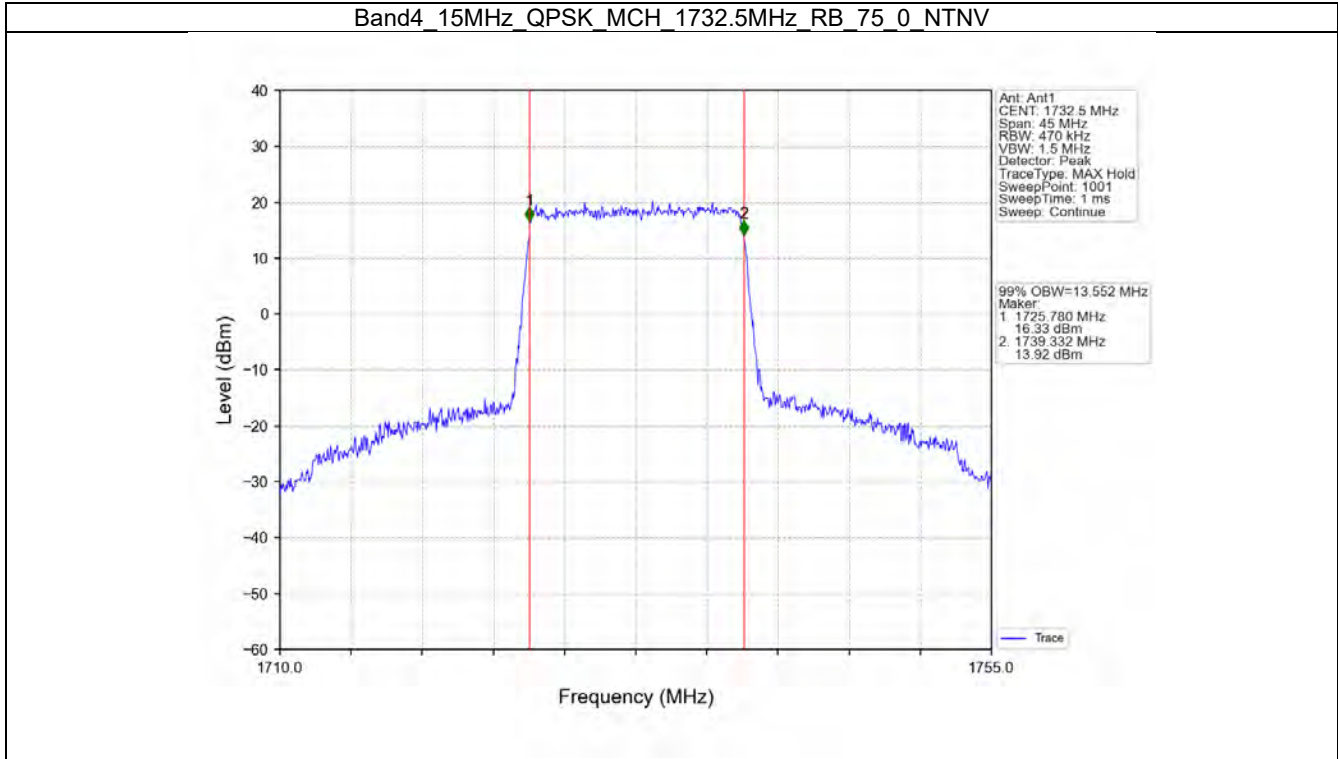
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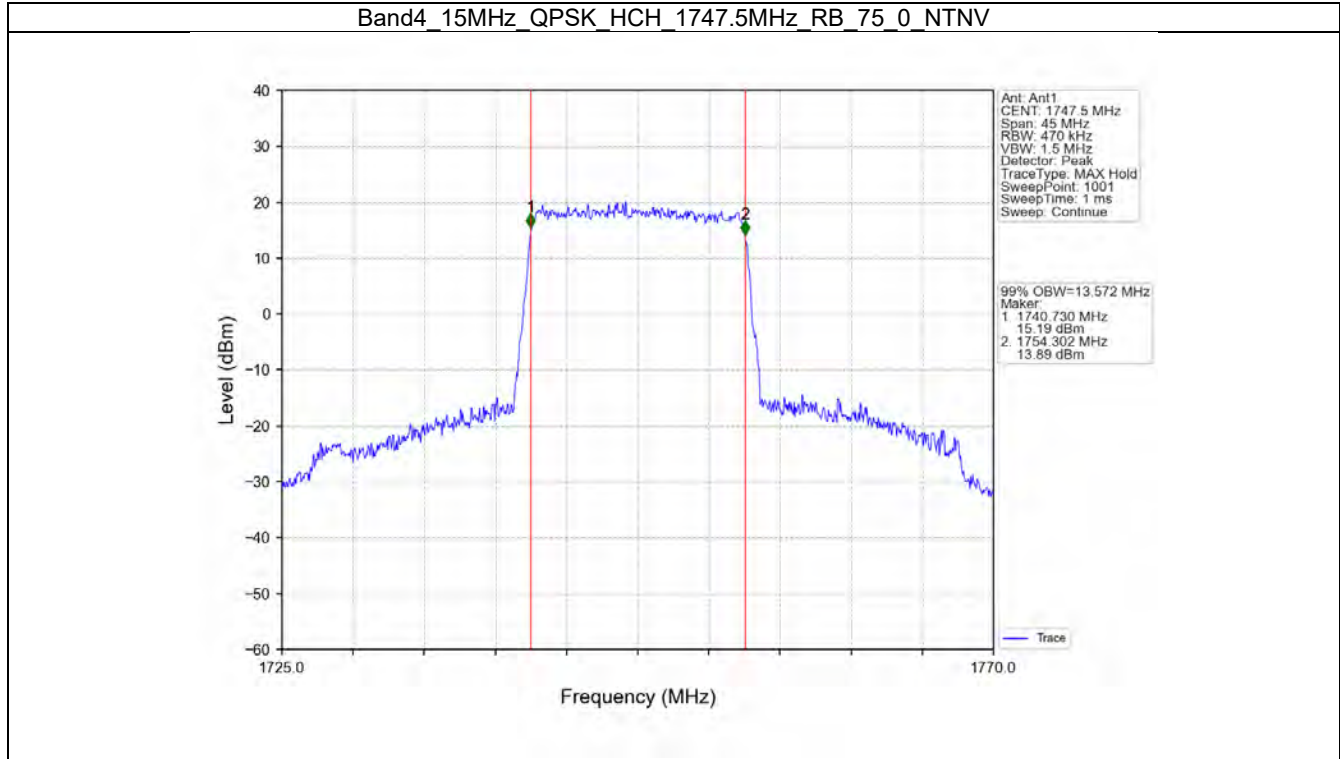
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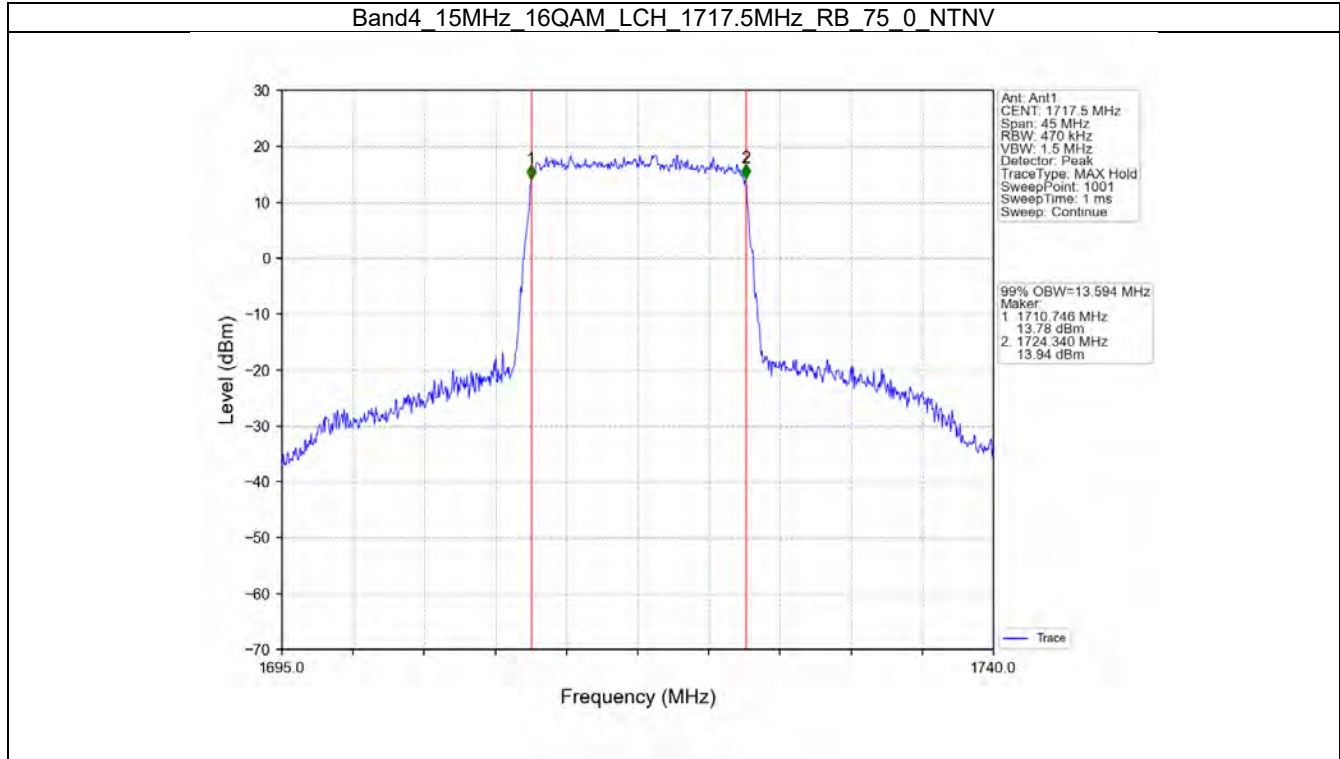
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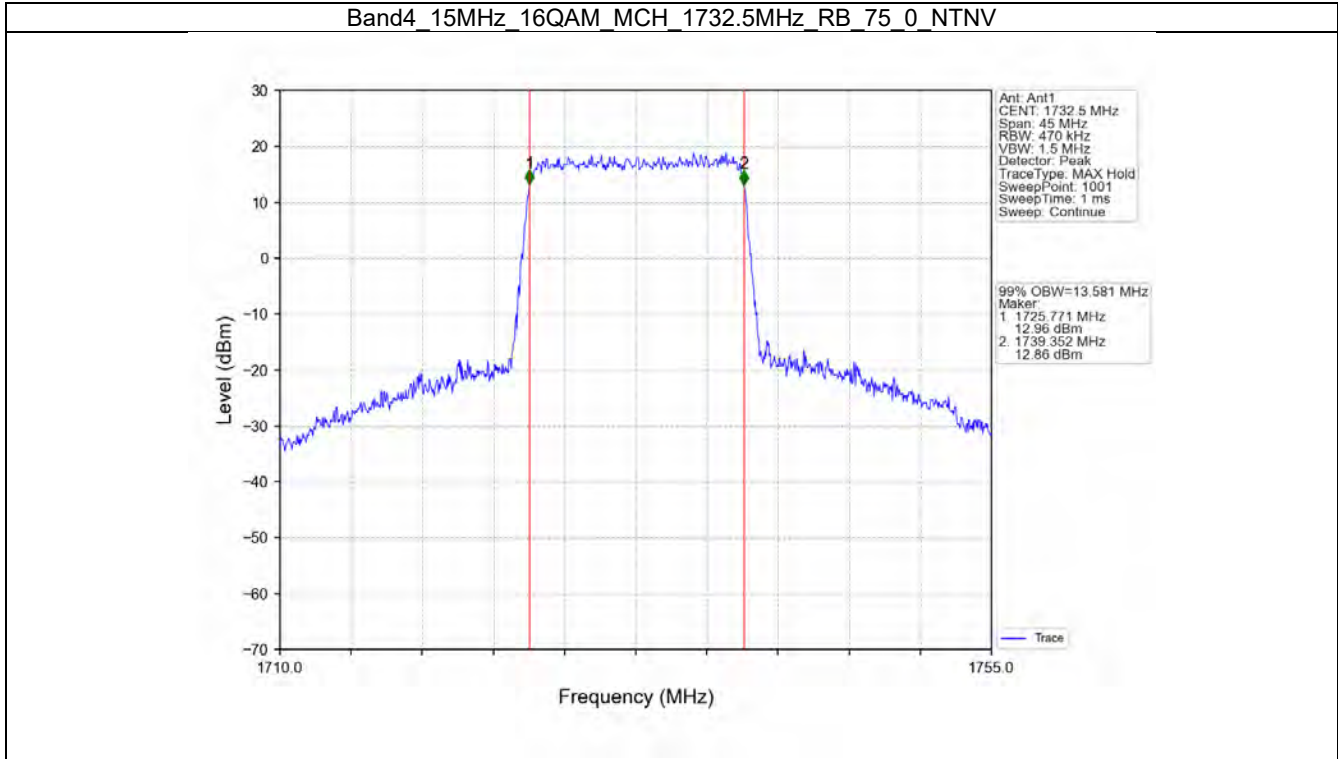
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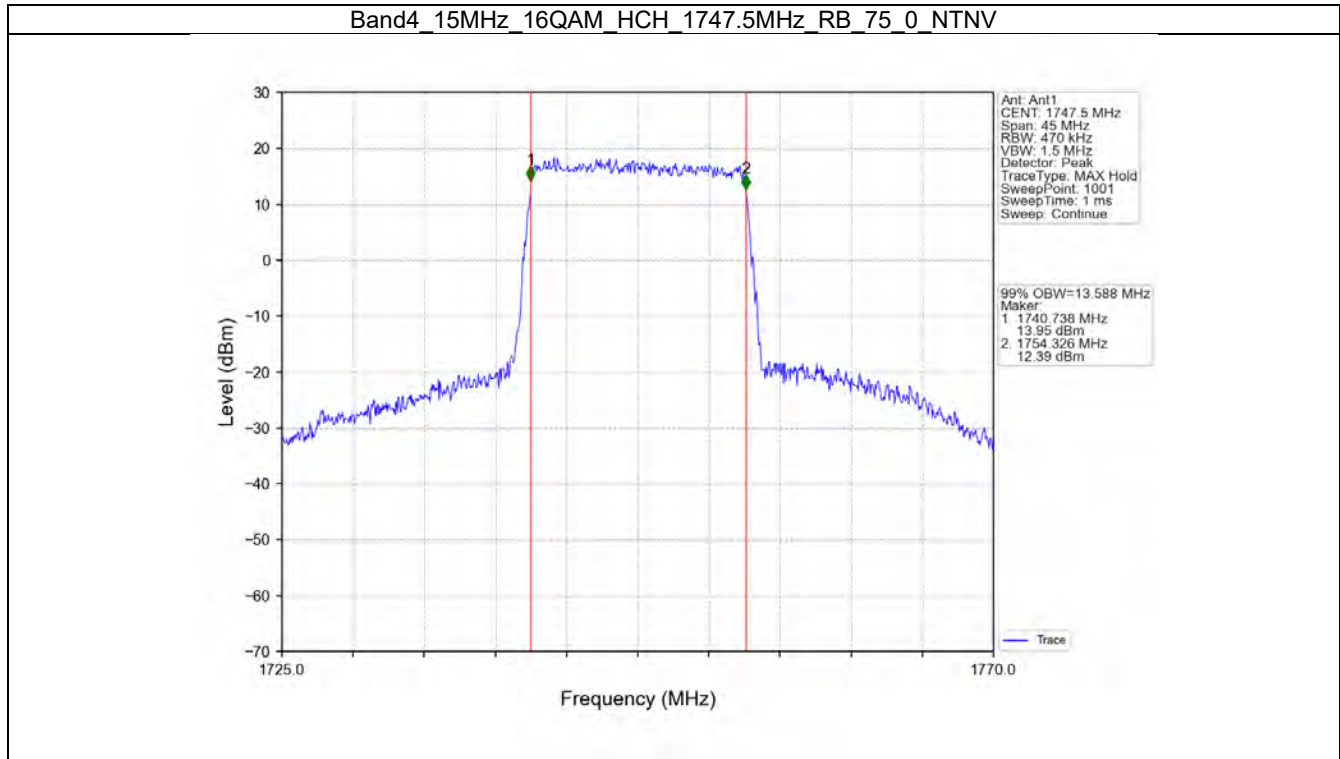


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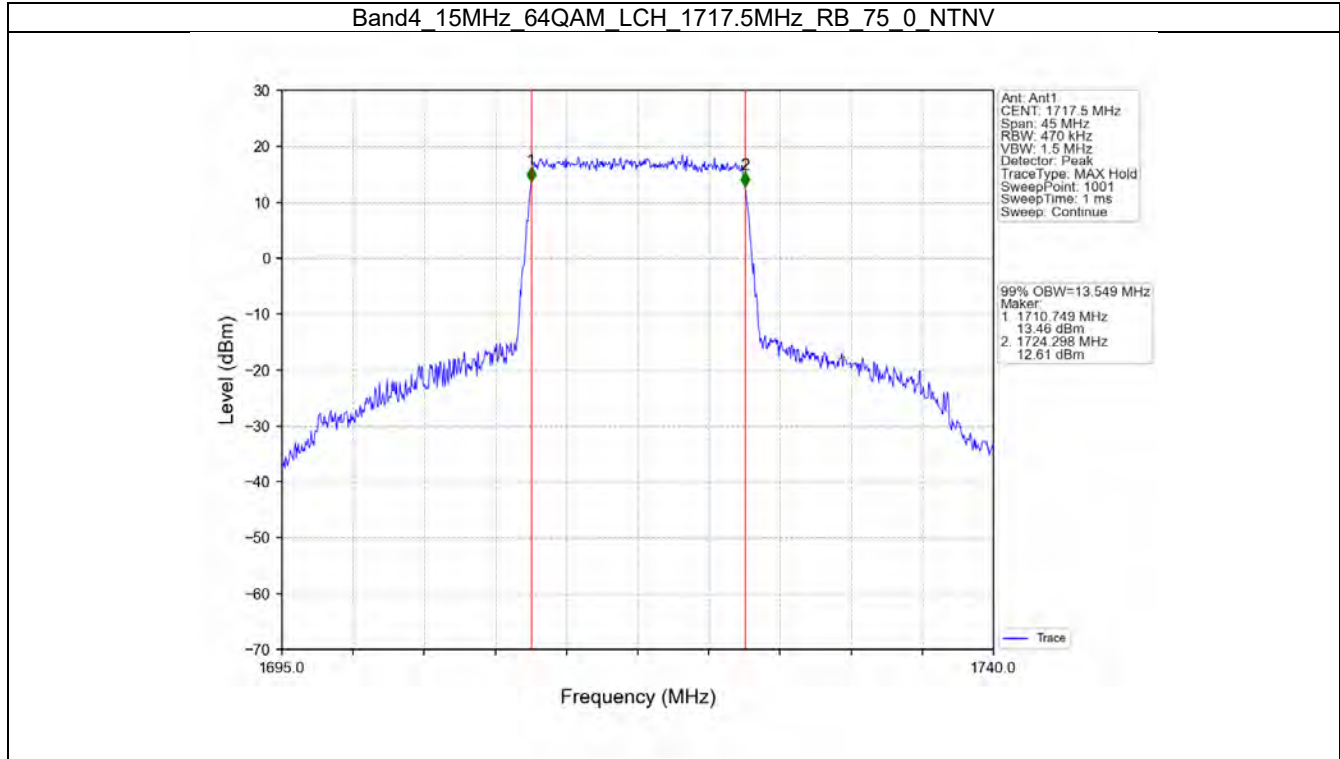
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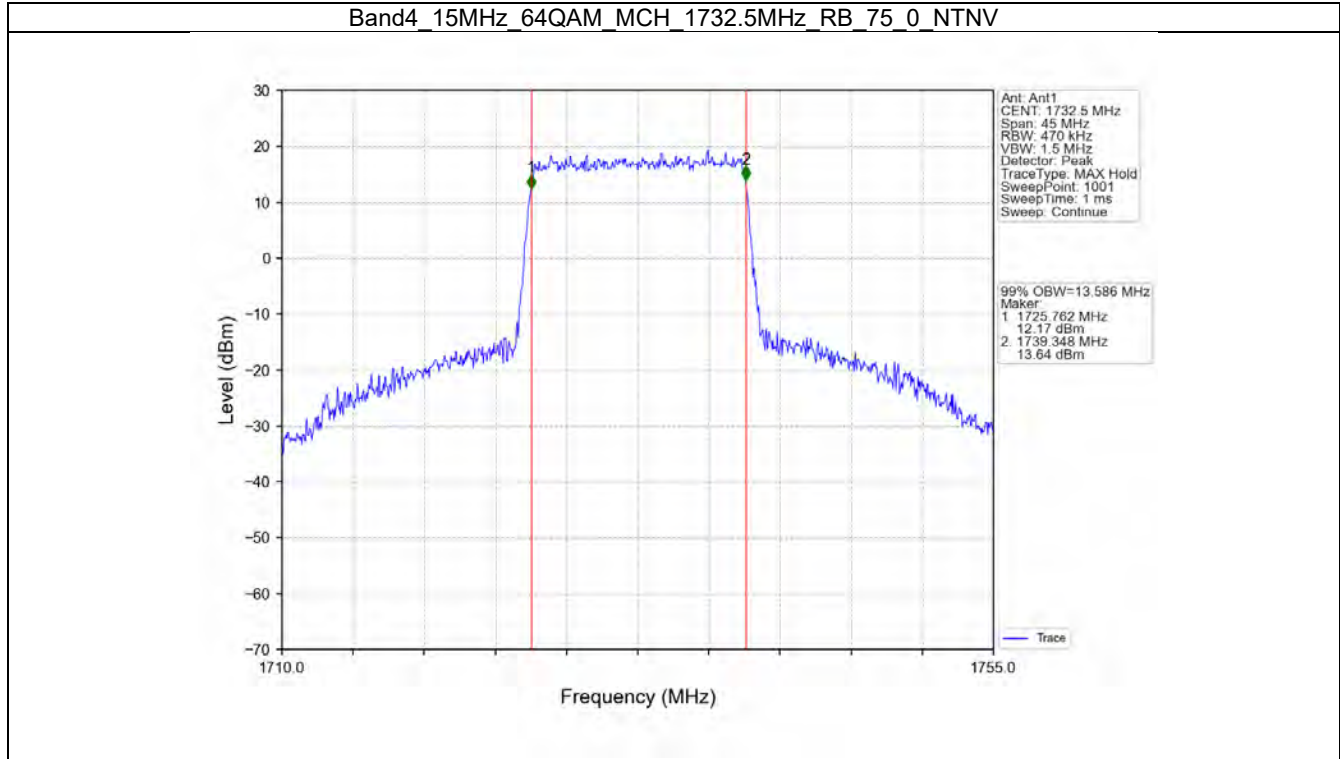
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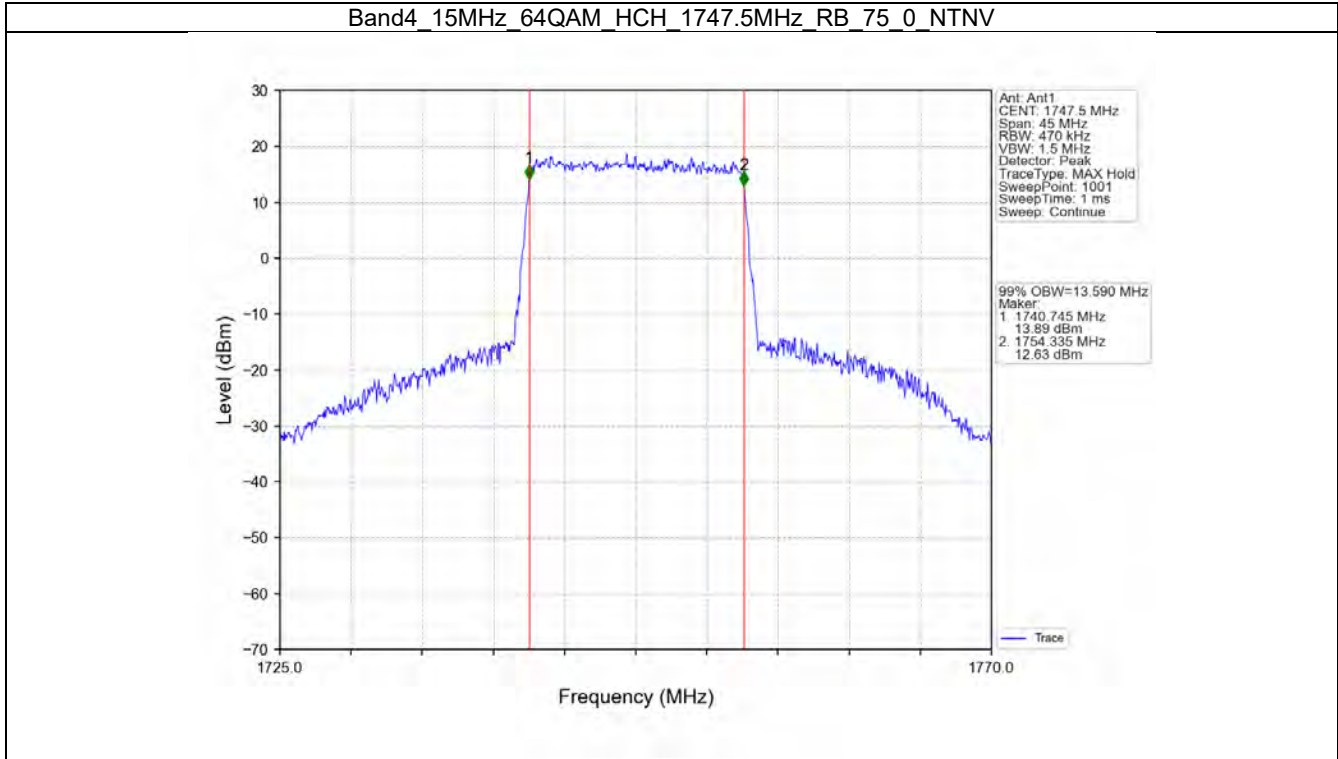
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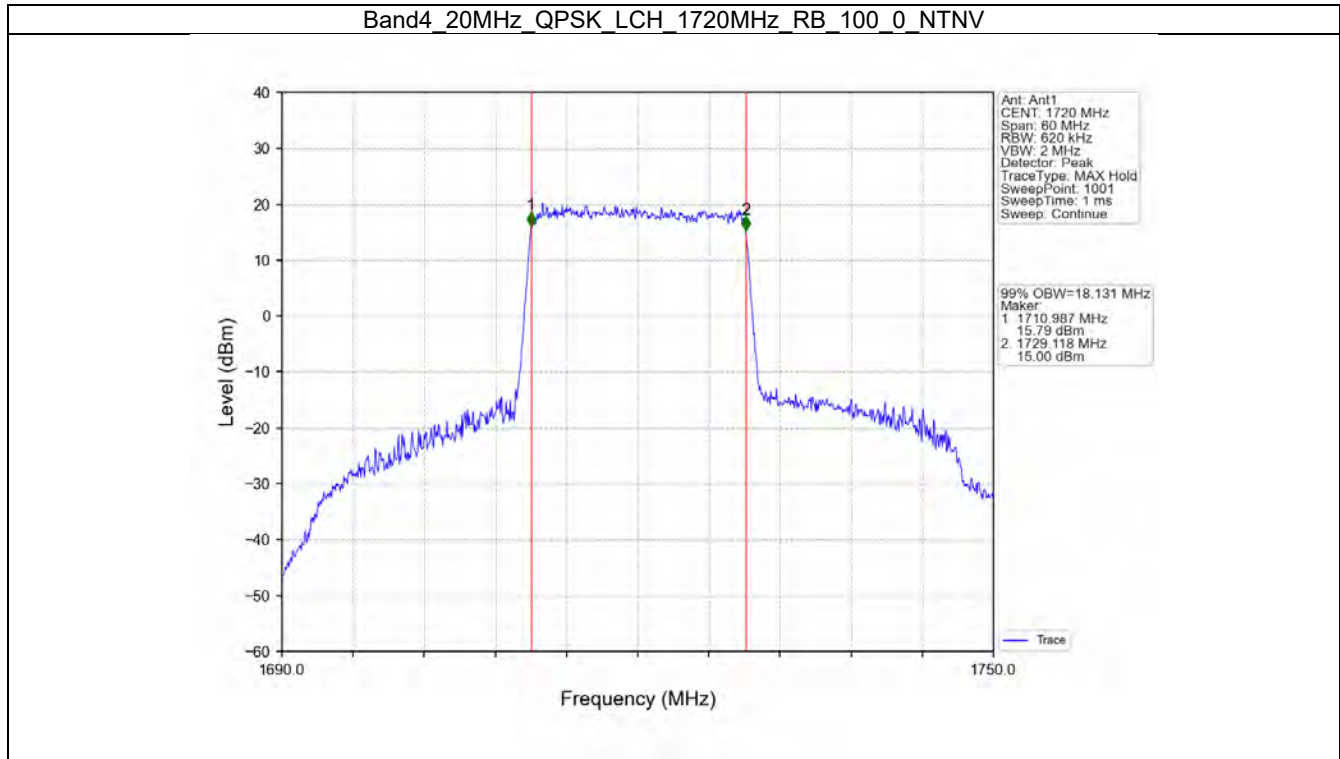
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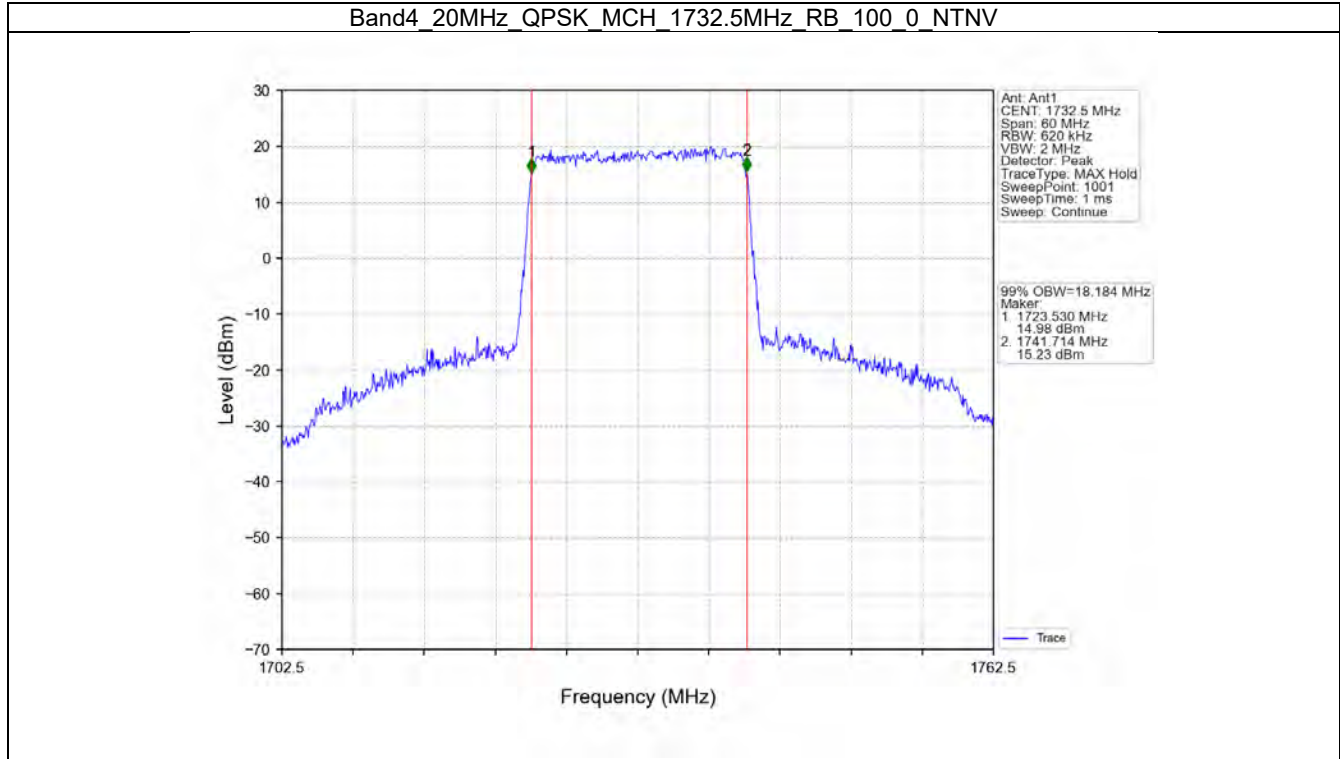
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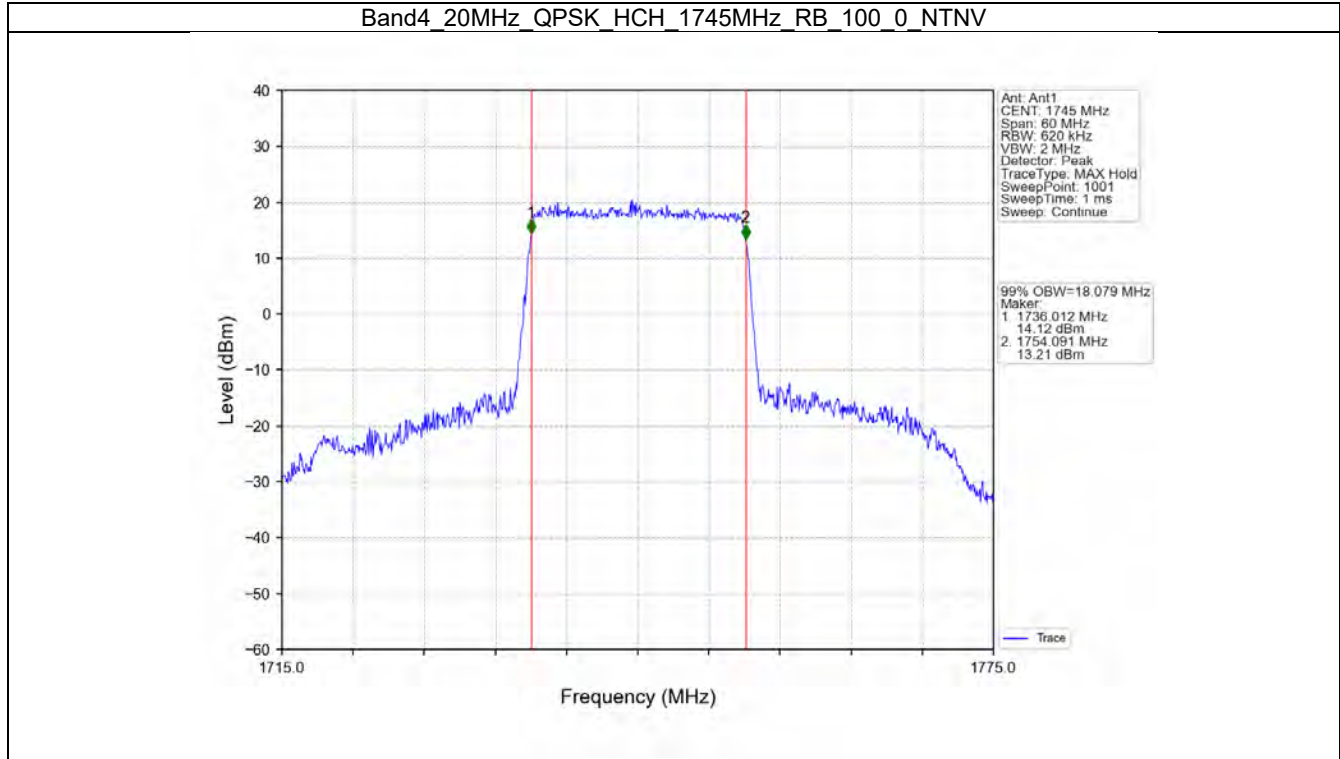
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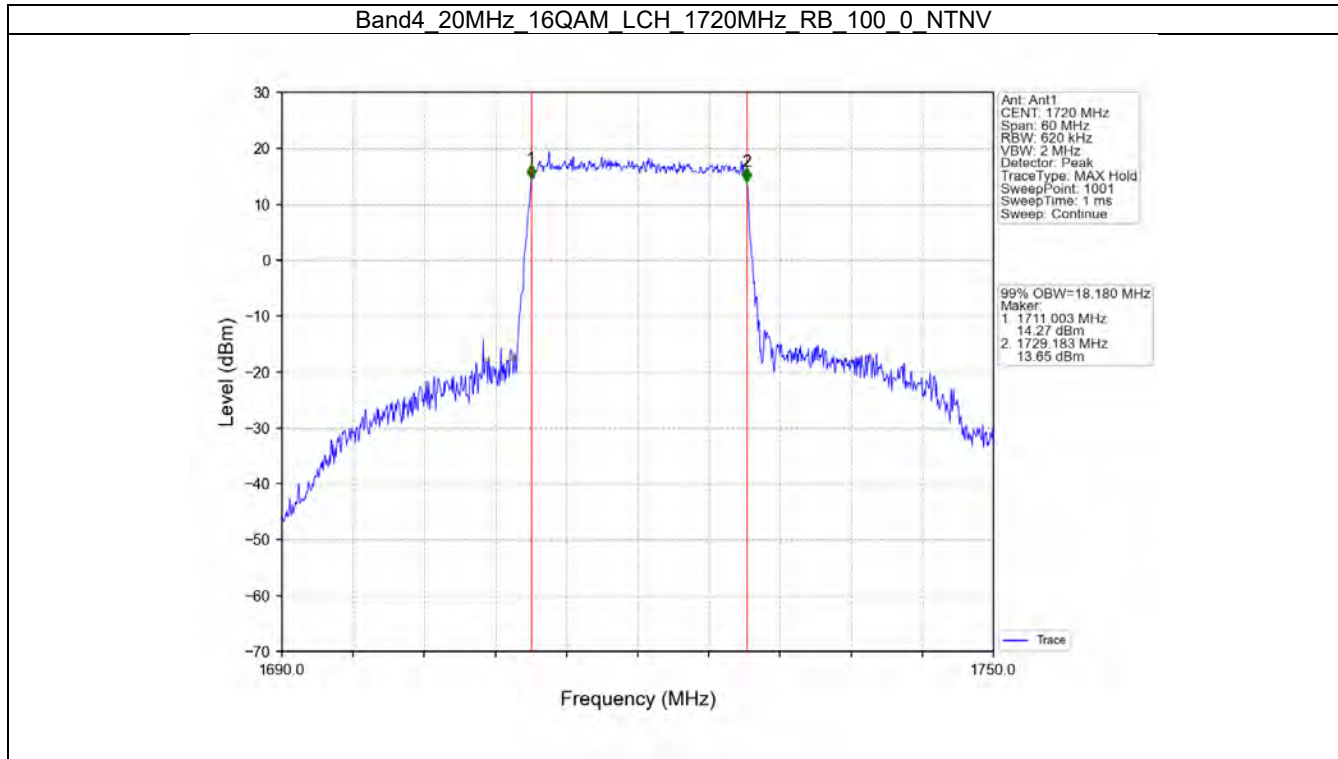


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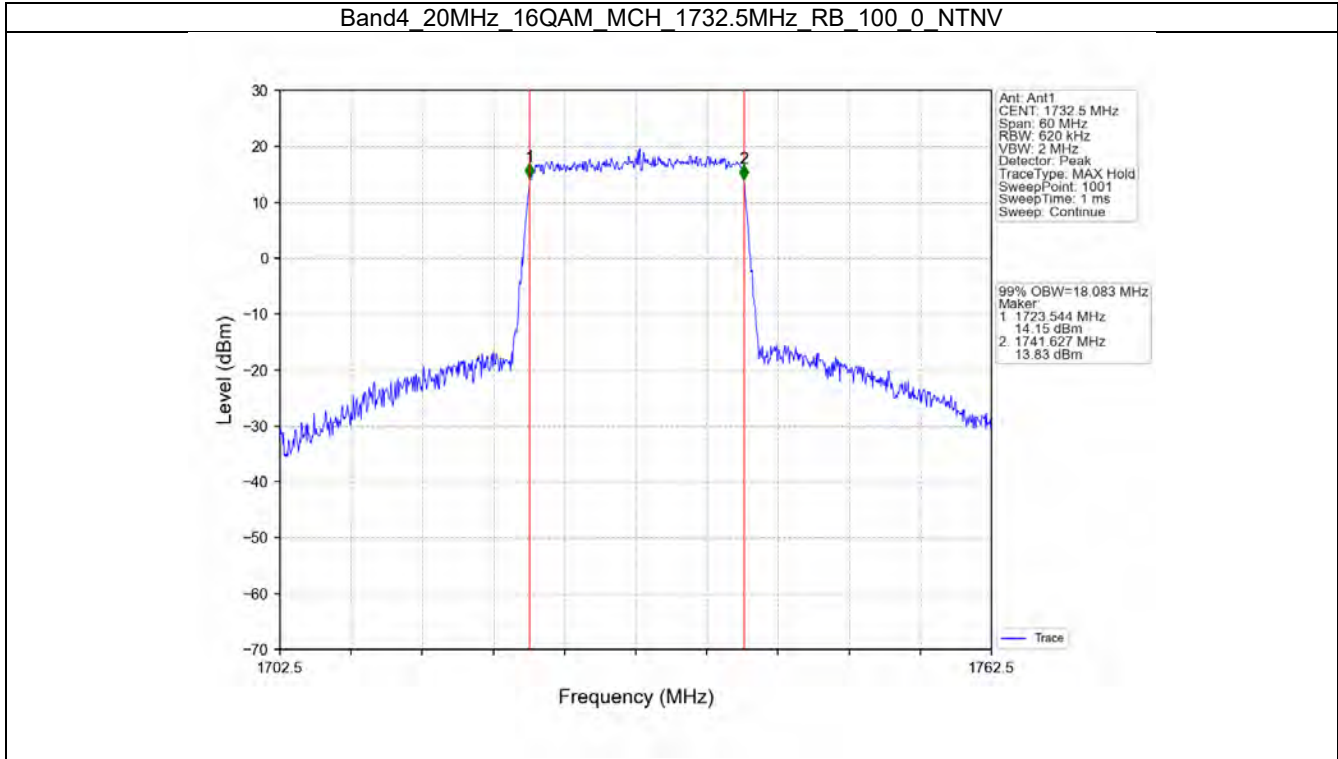
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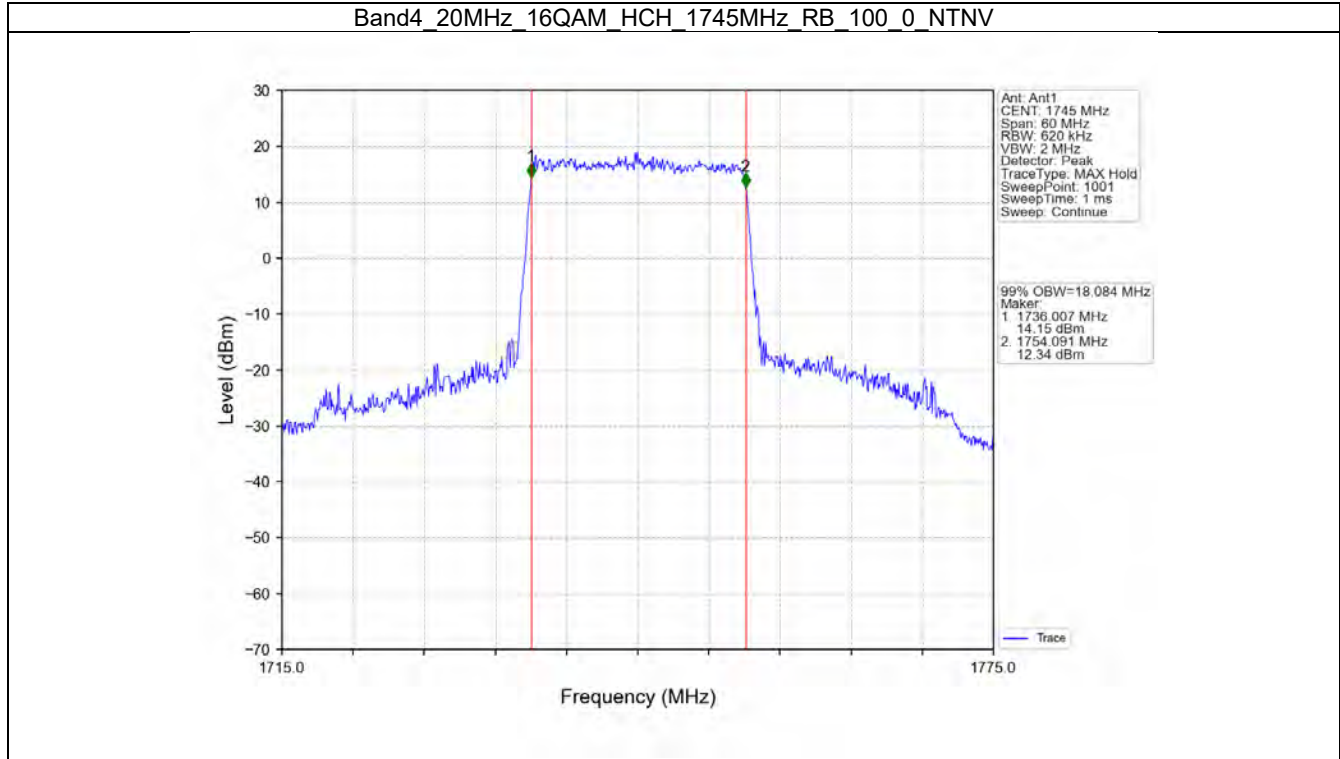
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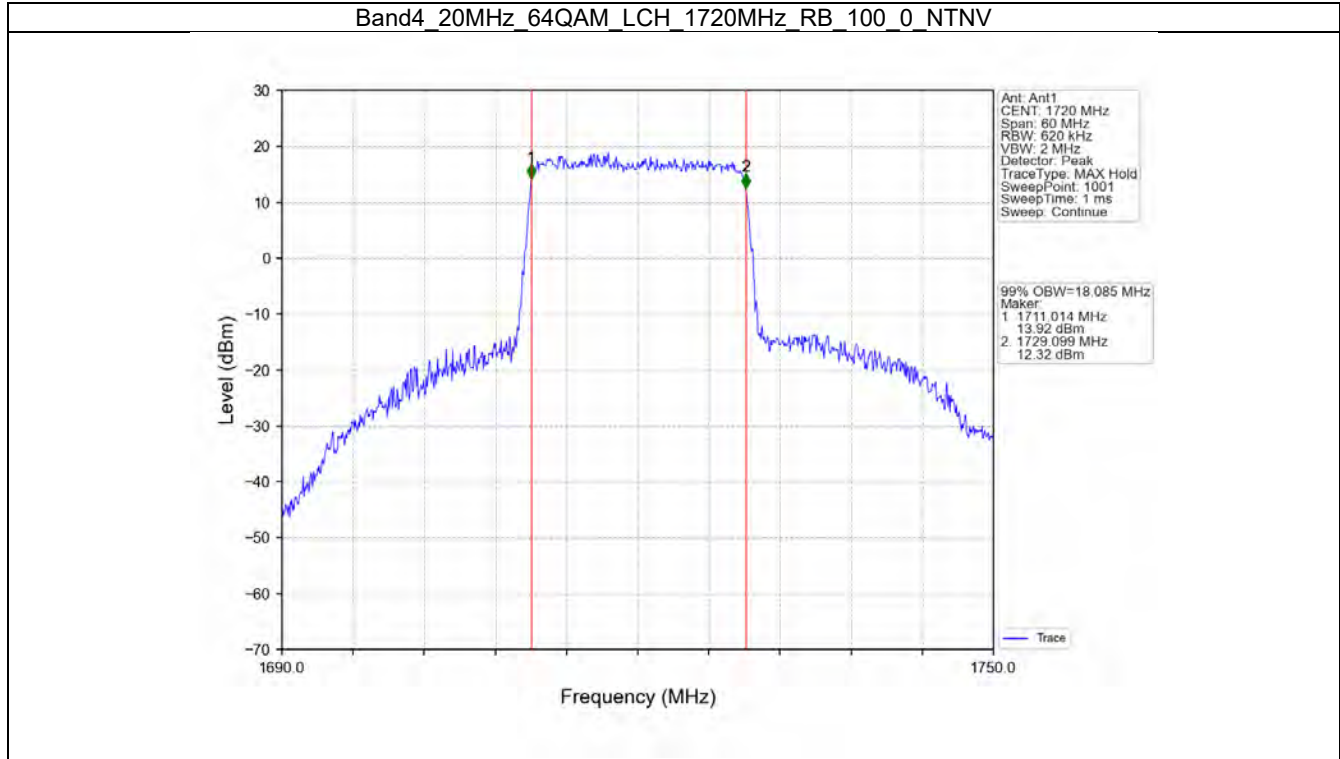
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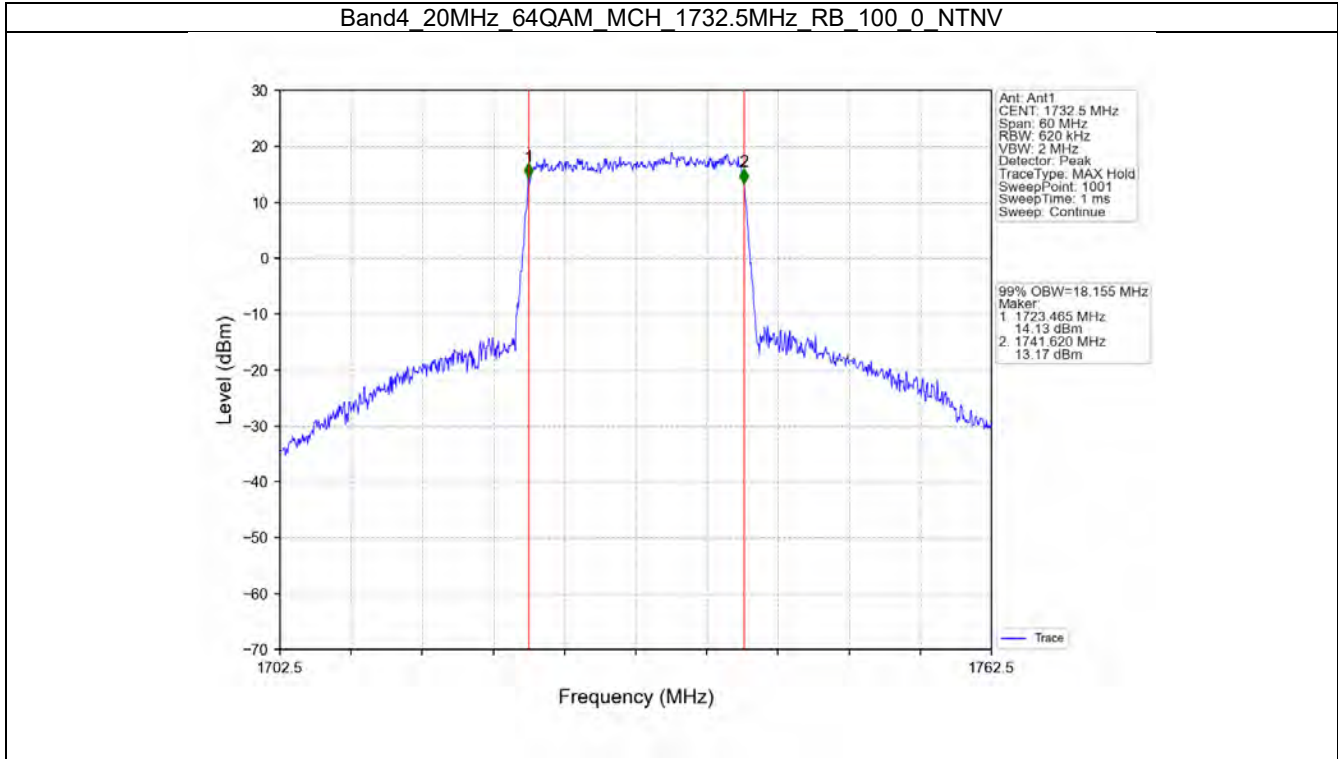
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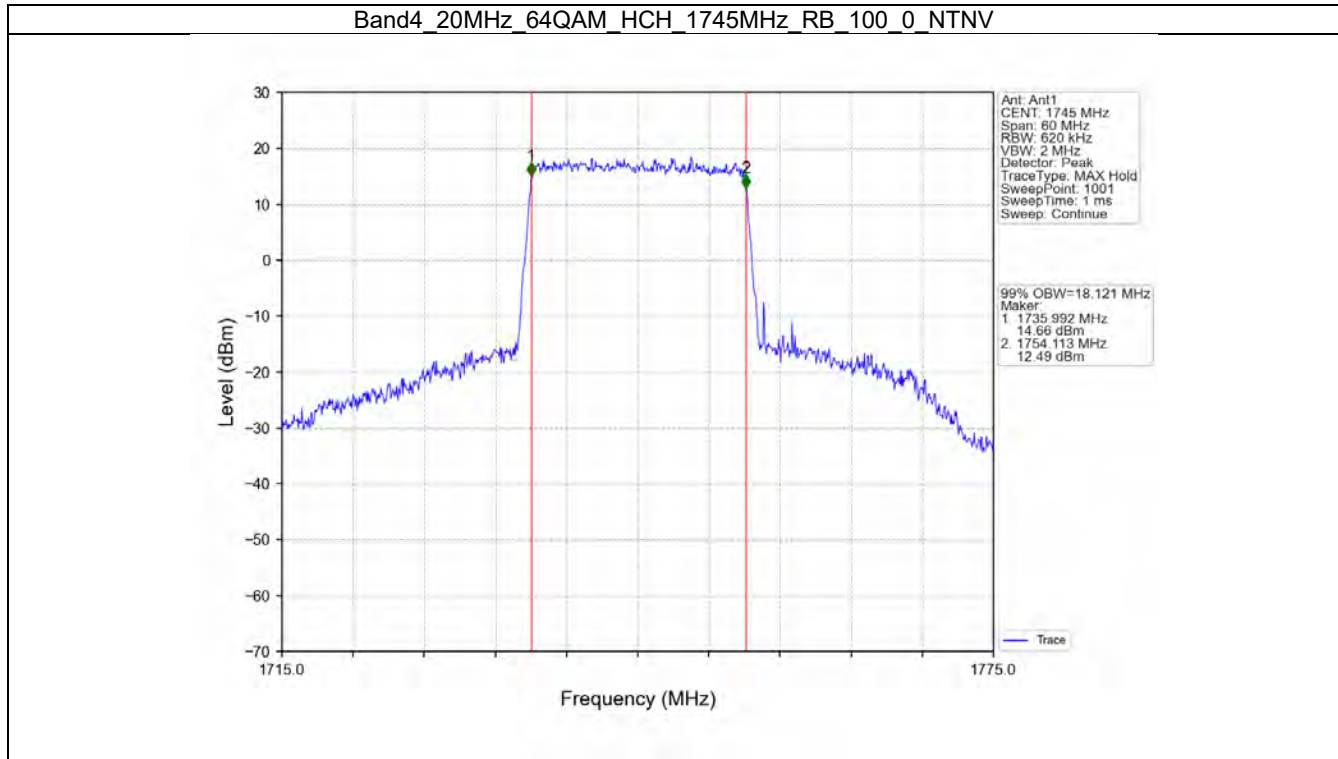


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## 3.2 Band4\_XDB

### 3.2.1 Test Result

Band: 4 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.331	/	Pass
		1732.5	6	0	1.308	/	Pass
		1754.3	6	0	1.331	/	Pass
	16QAM	1710.7	6	0	1.316	/	Pass
		1732.5	6	0	1.340	/	Pass
		1754.3	6	0	1.334	/	Pass
	64QAM	1710.7	6	0	1.351	/	Pass
		1732.5	6	0	1.313	/	Pass
		1754.3	6	0	1.331	/	Pass
3	QPSK	1711.5	15	0	3.014	/	Pass
		1732.5	15	0	3.001	/	Pass
		1753.5	15	0	3.007	/	Pass
	16QAM	1711.5	15	0	3.041	/	Pass
		1732.5	15	0	3.036	/	Pass
		1753.5	15	0	3.031	/	Pass
	64QAM	1711.5	15	0	3.043	/	Pass
		1732.5	15	0	3.021	/	Pass
		1753.5	15	0	3.033	/	Pass
5	QPSK	1712.5	25	0	5.063	/	Pass
		1732.5	25	0	5.030	/	Pass
		1752.5	25	0	5.082	/	Pass
	16QAM	1712.5	25	0	5.063	/	Pass
		1732.5	25	0	5.039	/	Pass
		1752.5	25	0	5.116	/	Pass
	64QAM	1712.5	25	0	5.025	/	Pass
		1732.5	25	0	5.055	/	Pass
		1752.5	25	0	5.042	/	Pass
10	QPSK	1715	50	0	9.998	/	Pass
		1732.5	50	0	10.019	/	Pass
		1750	50	0	10.030	/	Pass
	16QAM	1715	50	0	9.986	/	Pass
		1732.5	50	0	9.887	/	Pass
		1750	50	0	9.997	/	Pass
	64QAM	1715	50	0	9.870	/	Pass
		1732.5	50	0	9.916	/	Pass
		1750	50	0	10.002	/	Pass
15	QPSK	1717.5	75	0	14.928	/	Pass
		1732.5	75	0	14.938	/	Pass
		1747.5	75	0	15.003	/	Pass



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	16QAM	1717.5	75	0	14.987	/	Pass
		1732.5	75	0	14.955	/	Pass
		1747.5	75	0	14.942	/	Pass
	64QAM	1717.5	75	0	15.007	/	Pass
		1732.5	75	0	14.922	/	Pass
		1747.5	75	0	14.936	/	Pass
20	QPSK	1720	100	0	19.686	/	Pass
		1732.5	100	0	19.887	/	Pass
		1745	100	0	19.803	/	Pass
	16QAM	1720	100	0	19.929	/	Pass
		1732.5	100	0	19.753	/	Pass
		1745	100	0	19.778	/	Pass
	64QAM	1720	100	0	19.695	/	Pass
		1732.5	100	0	19.776	/	Pass
		1745	100	0	20.439	/	Pass



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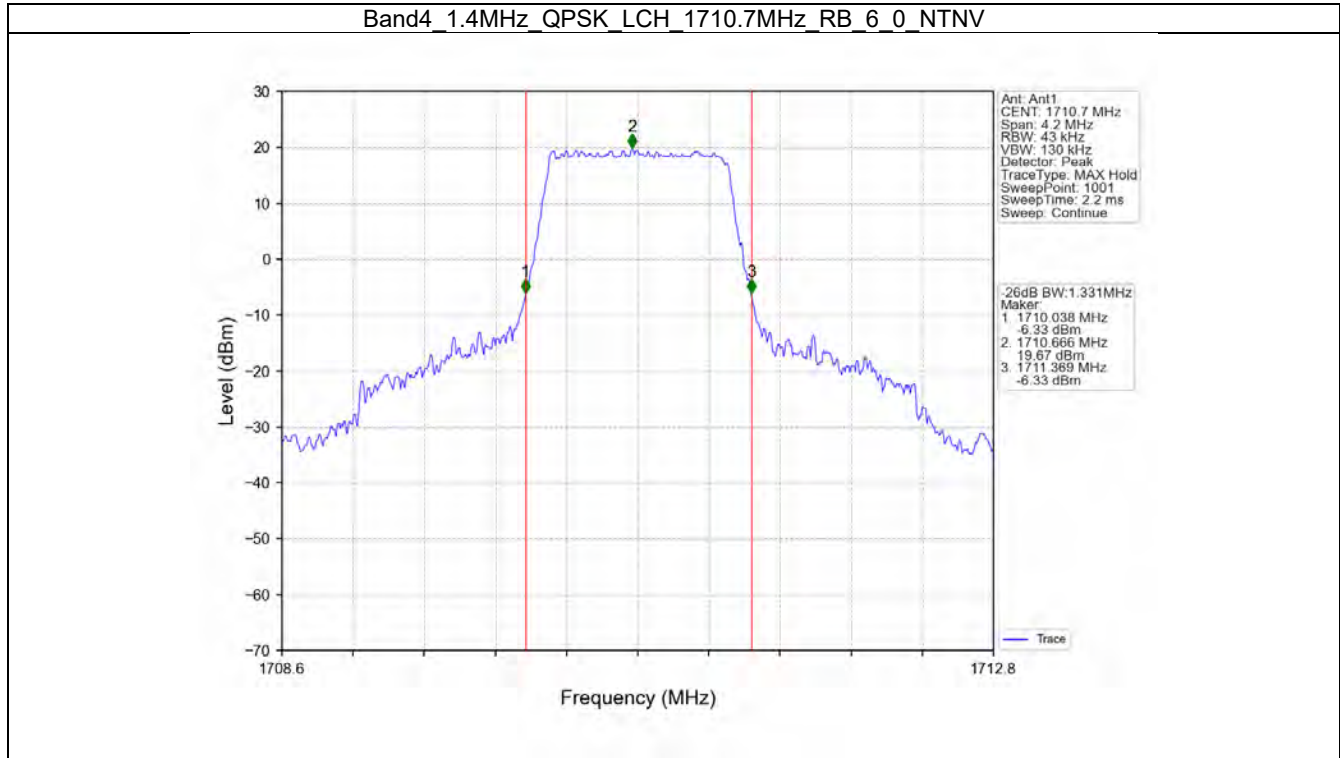
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3.2.2 Test Graph



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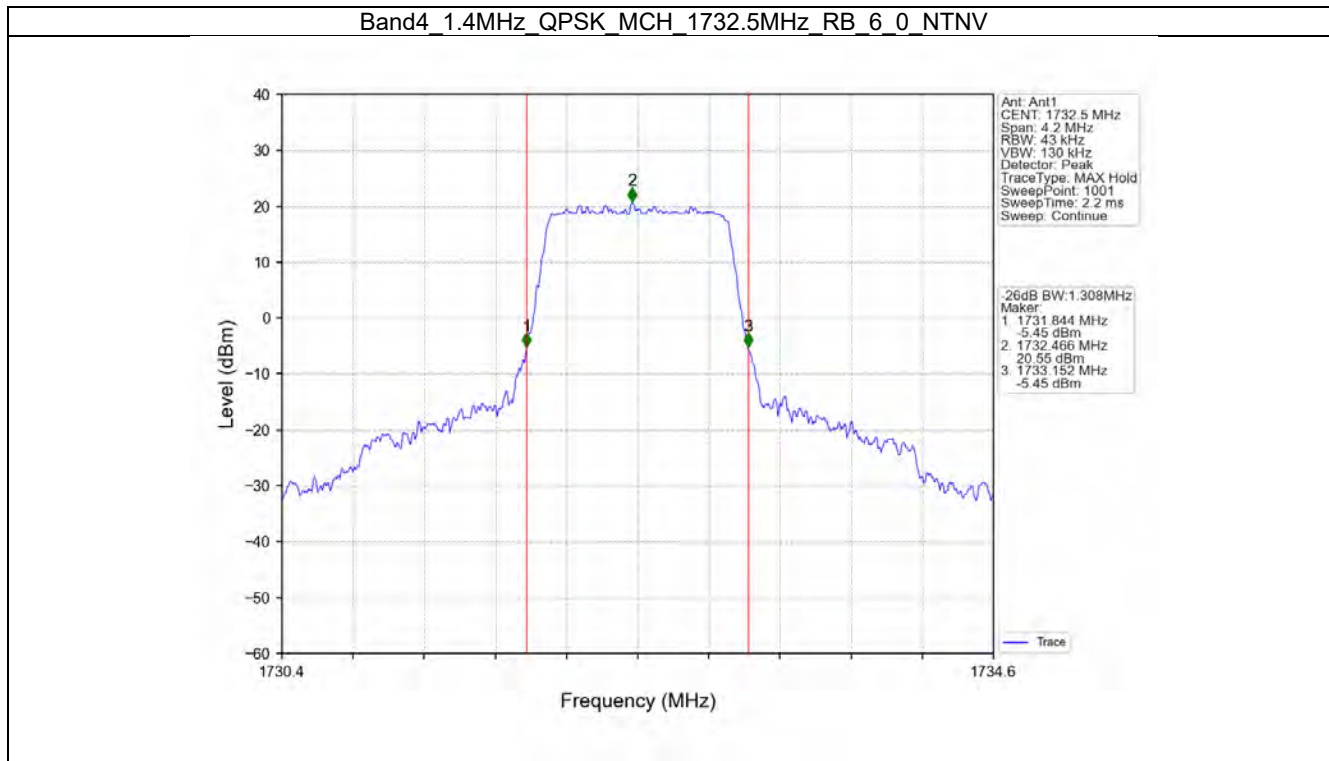


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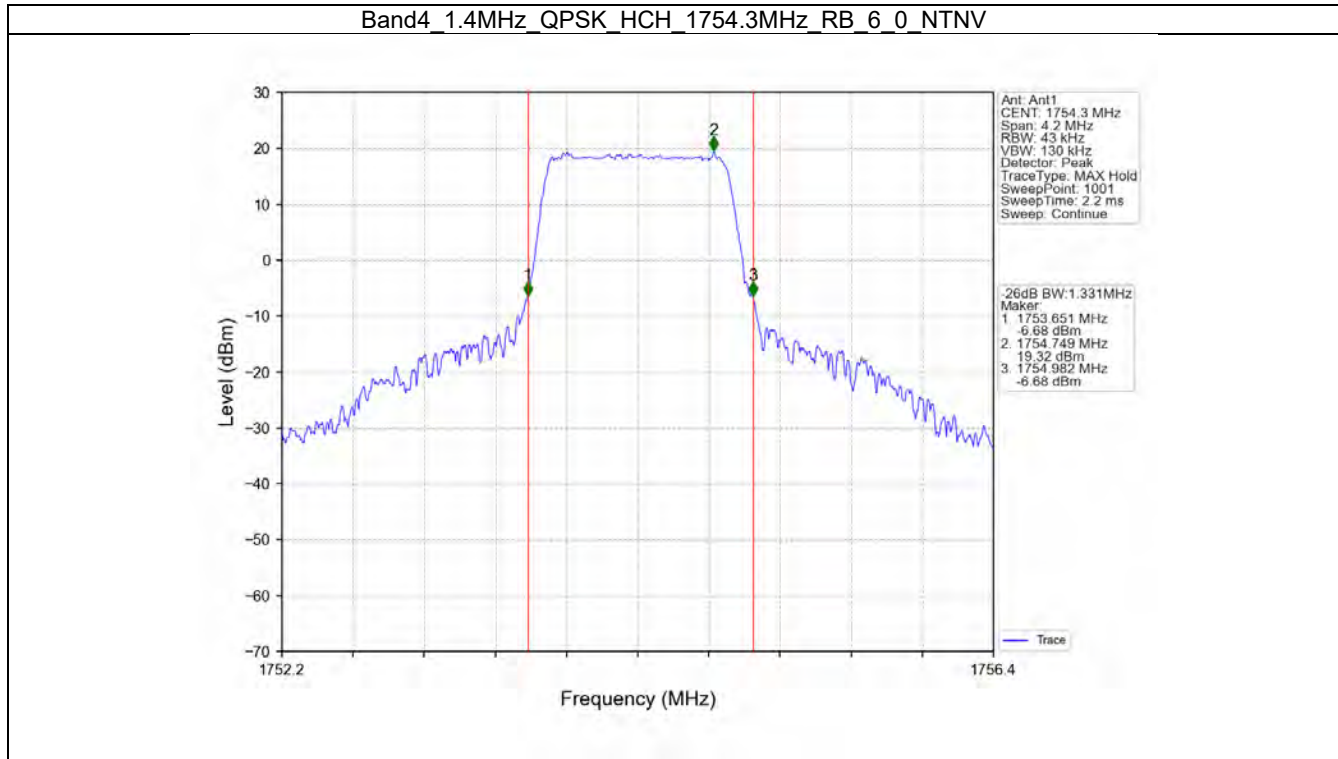


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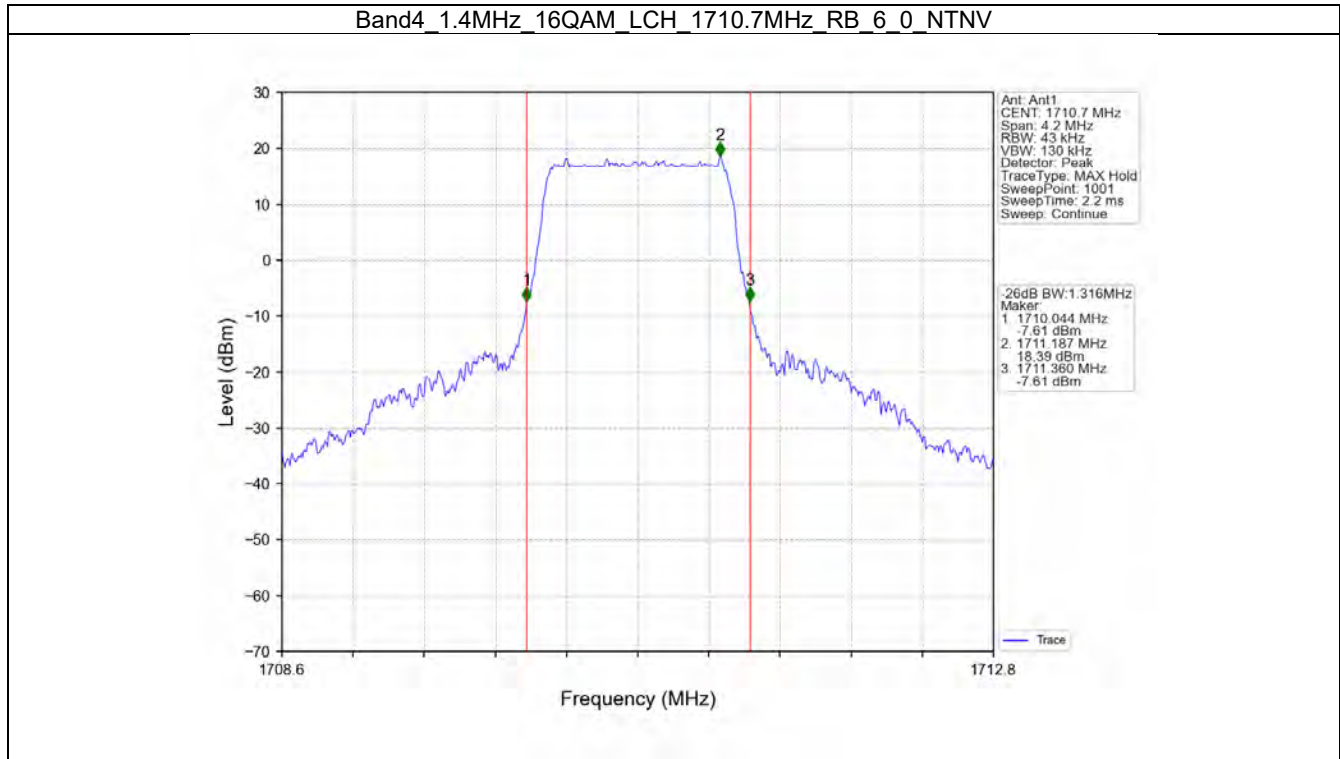


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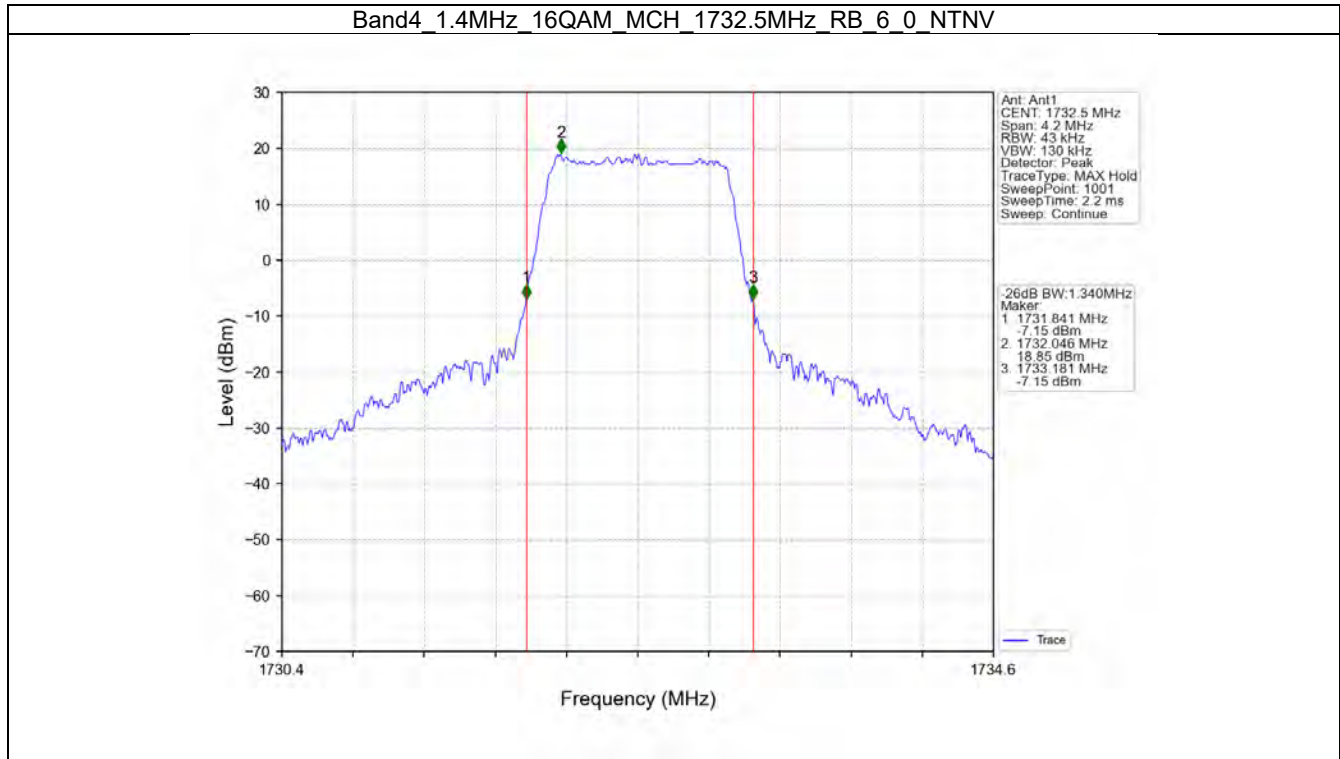


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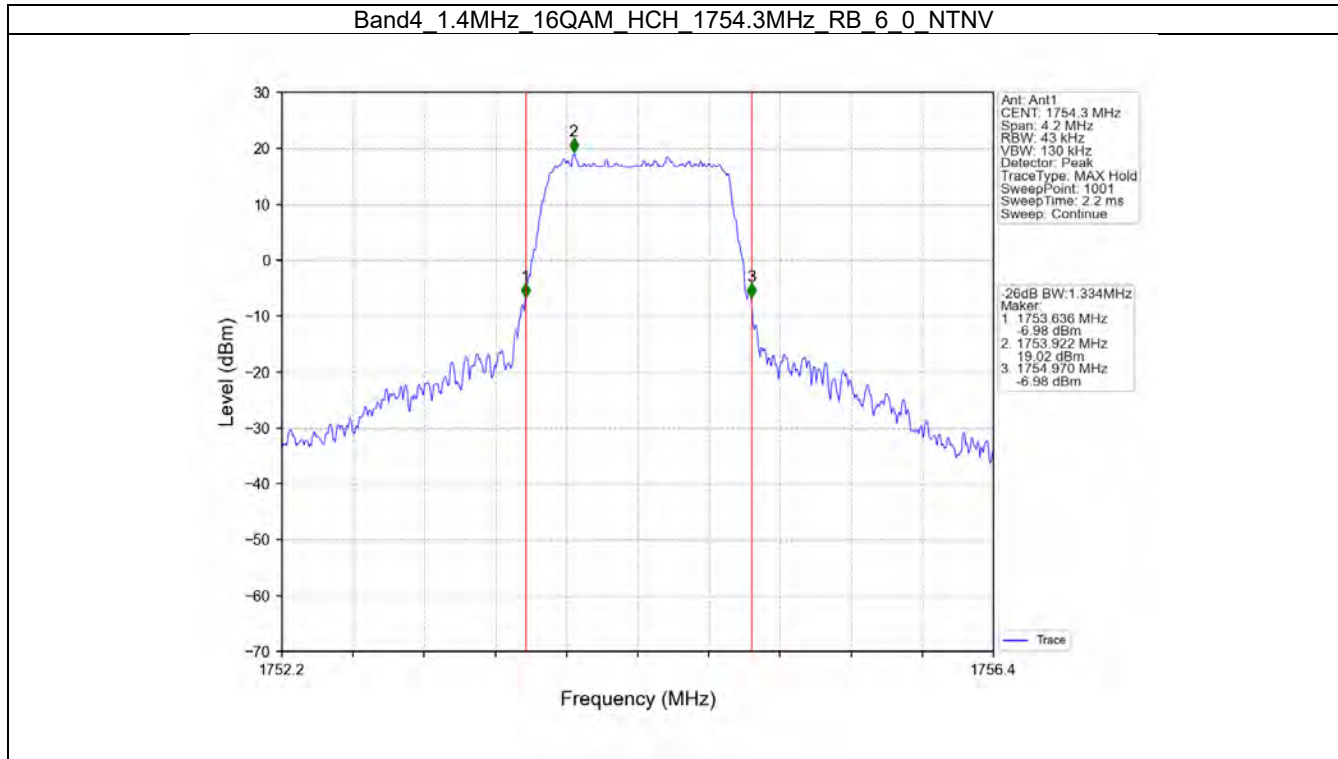


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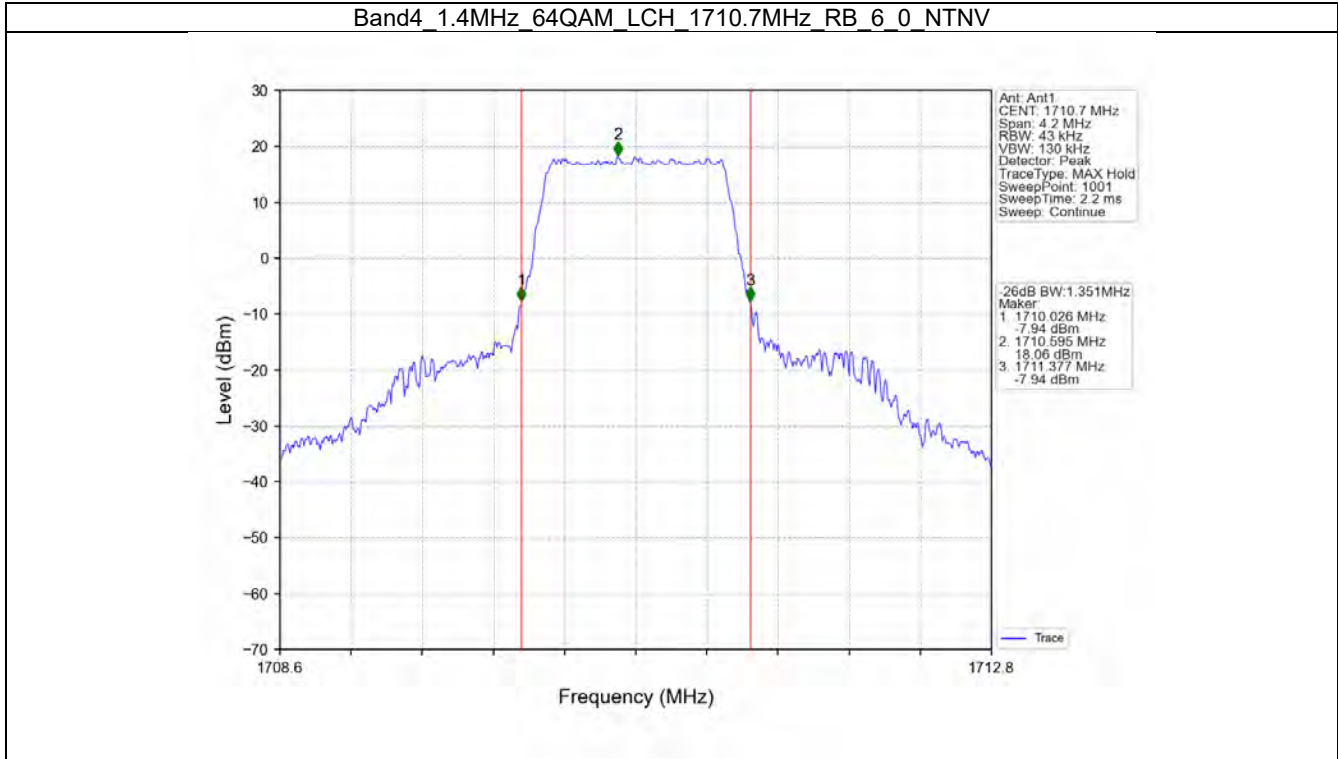
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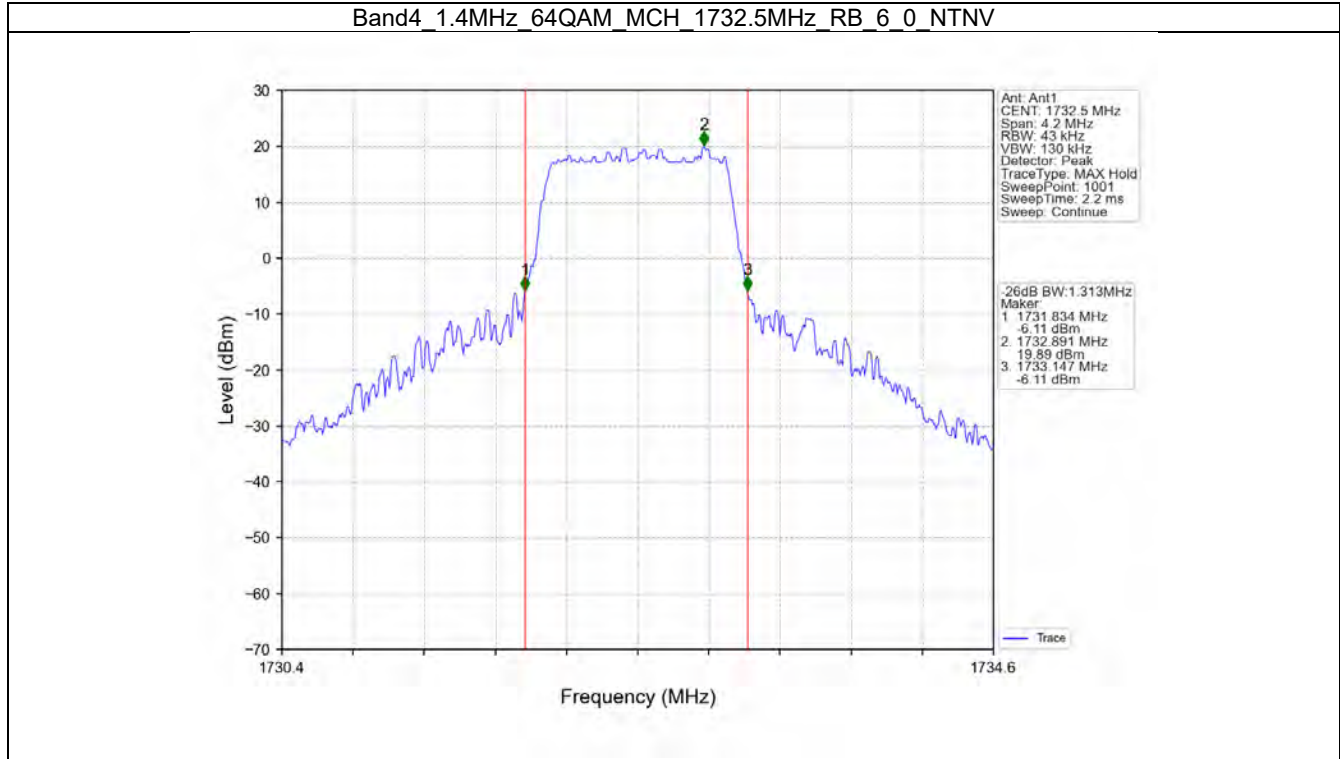
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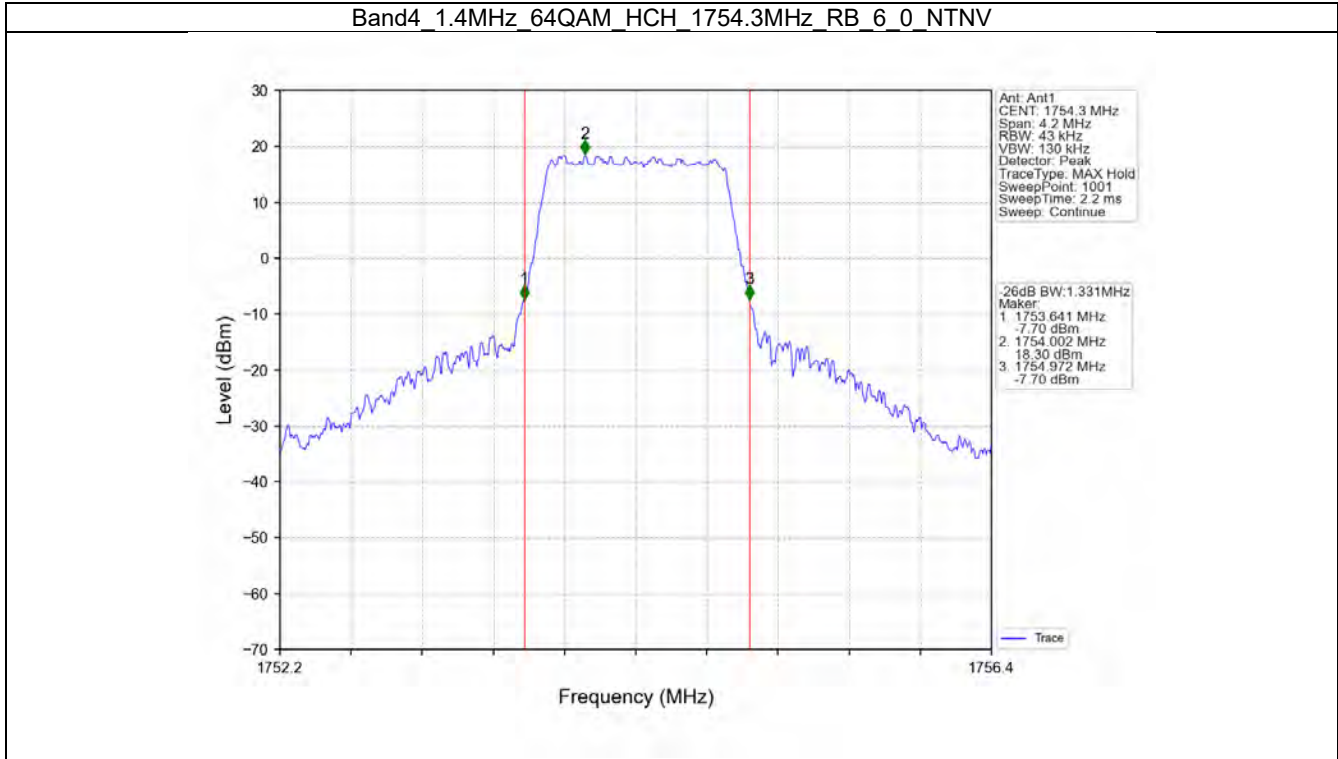
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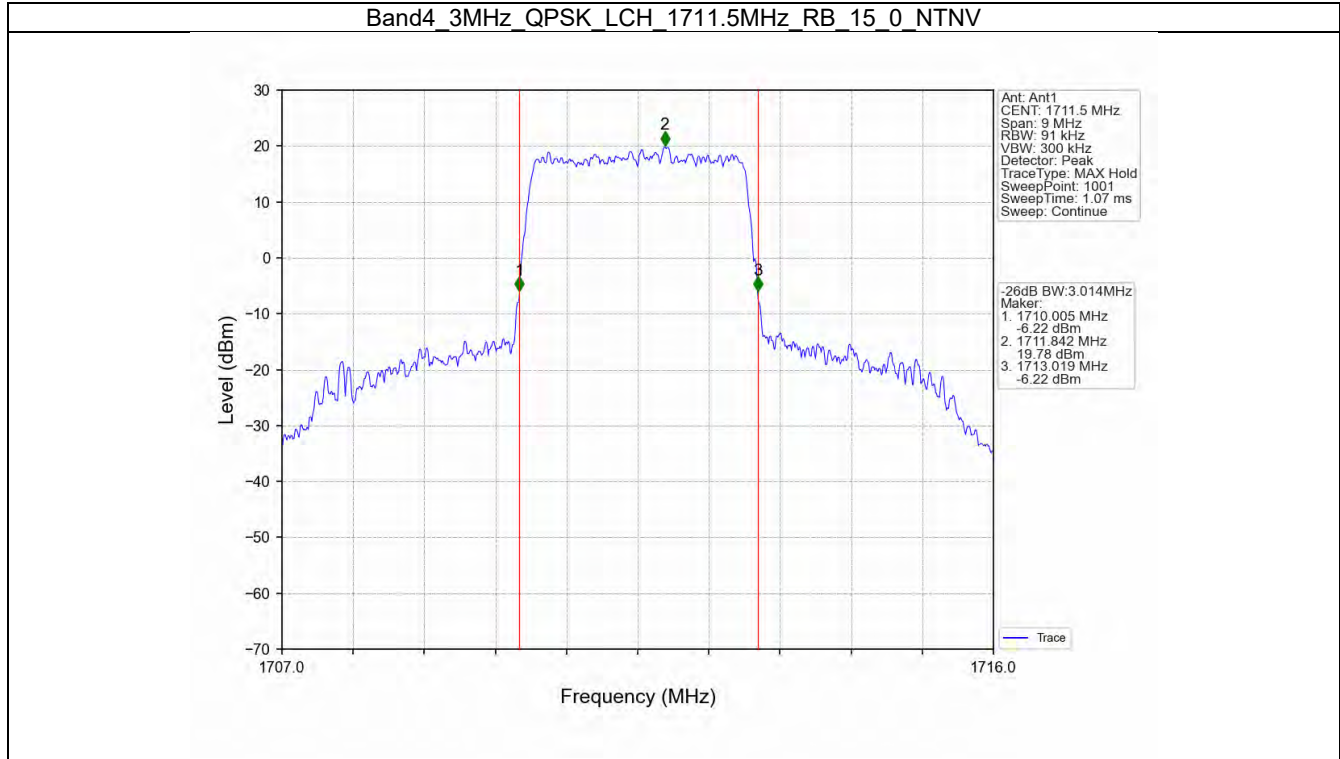
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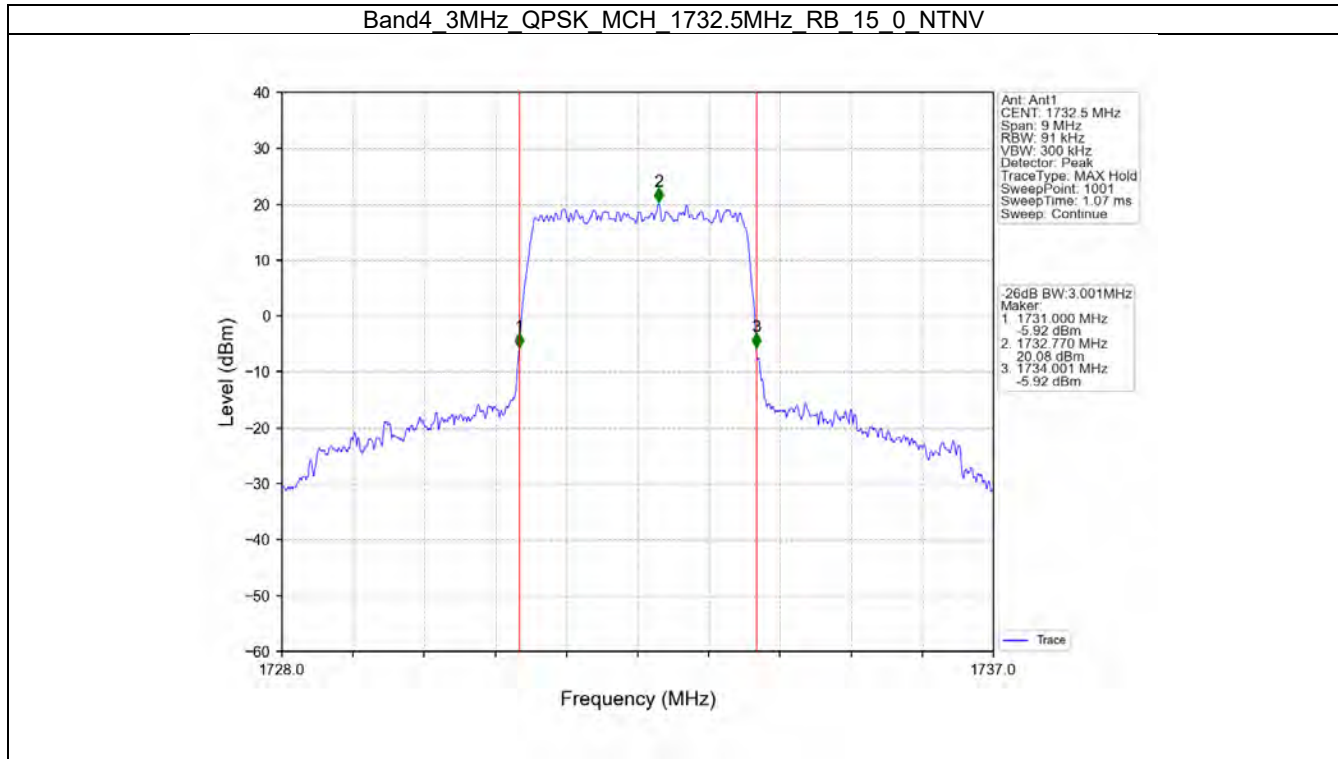


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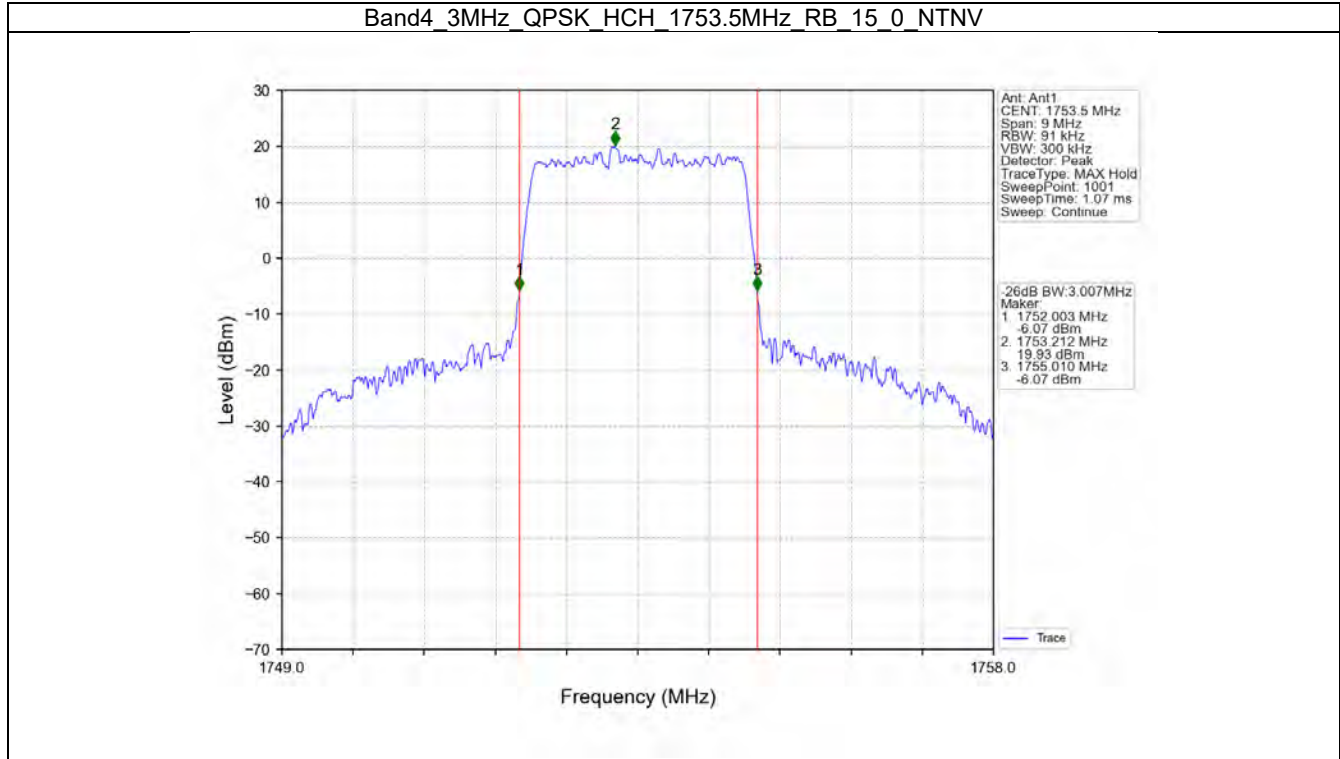
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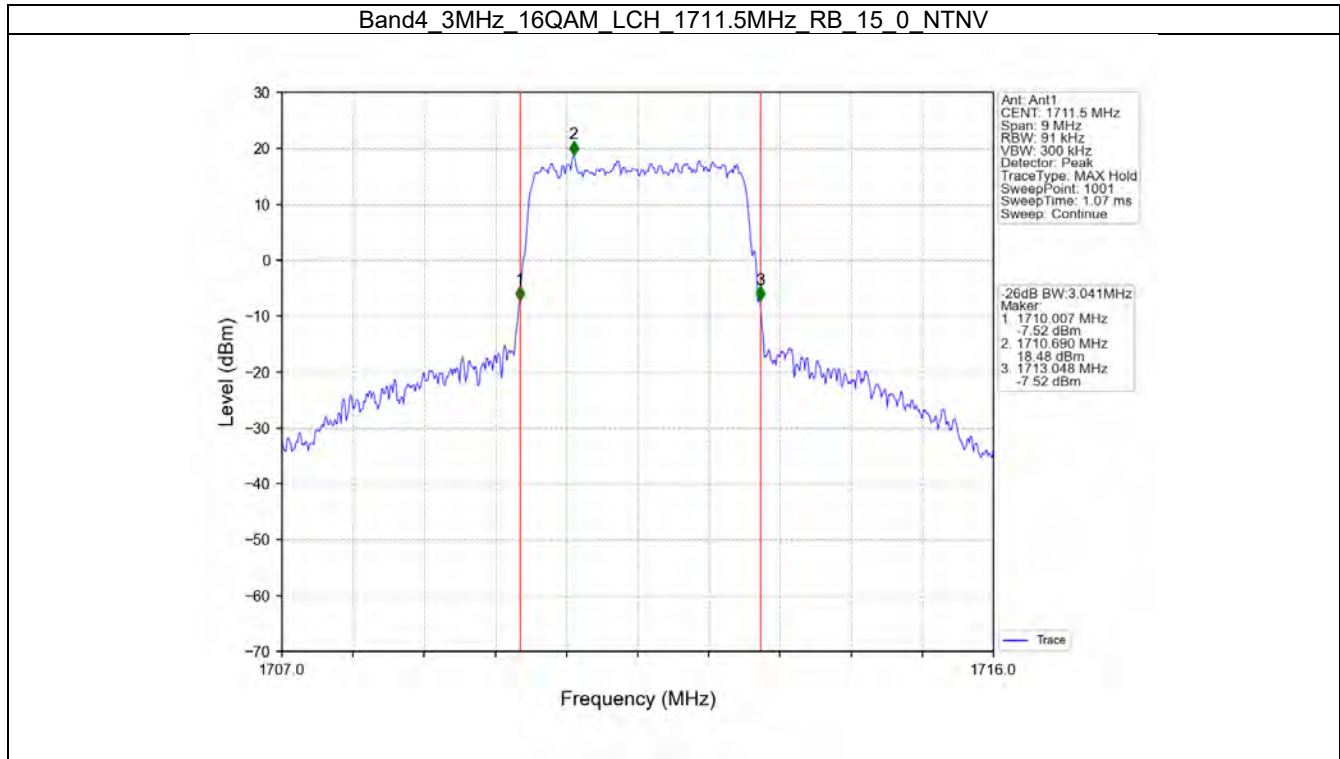
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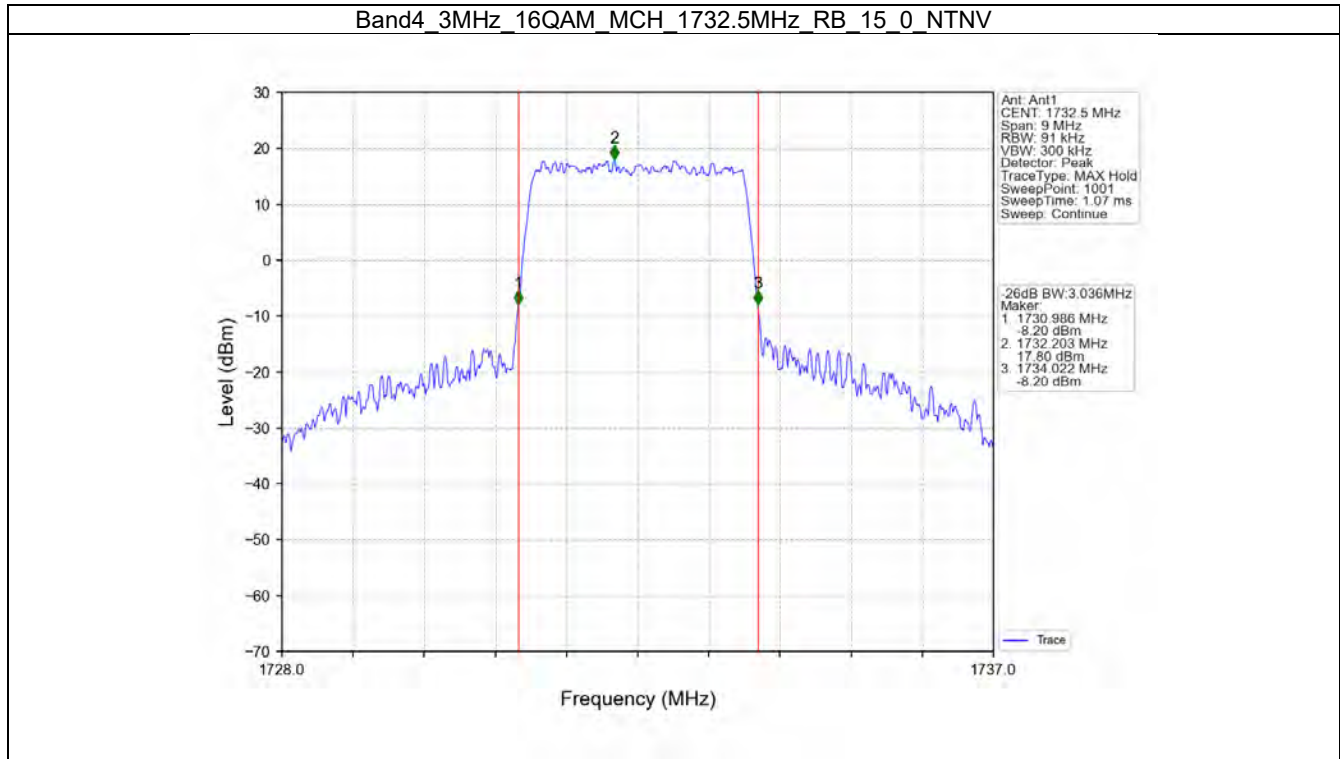


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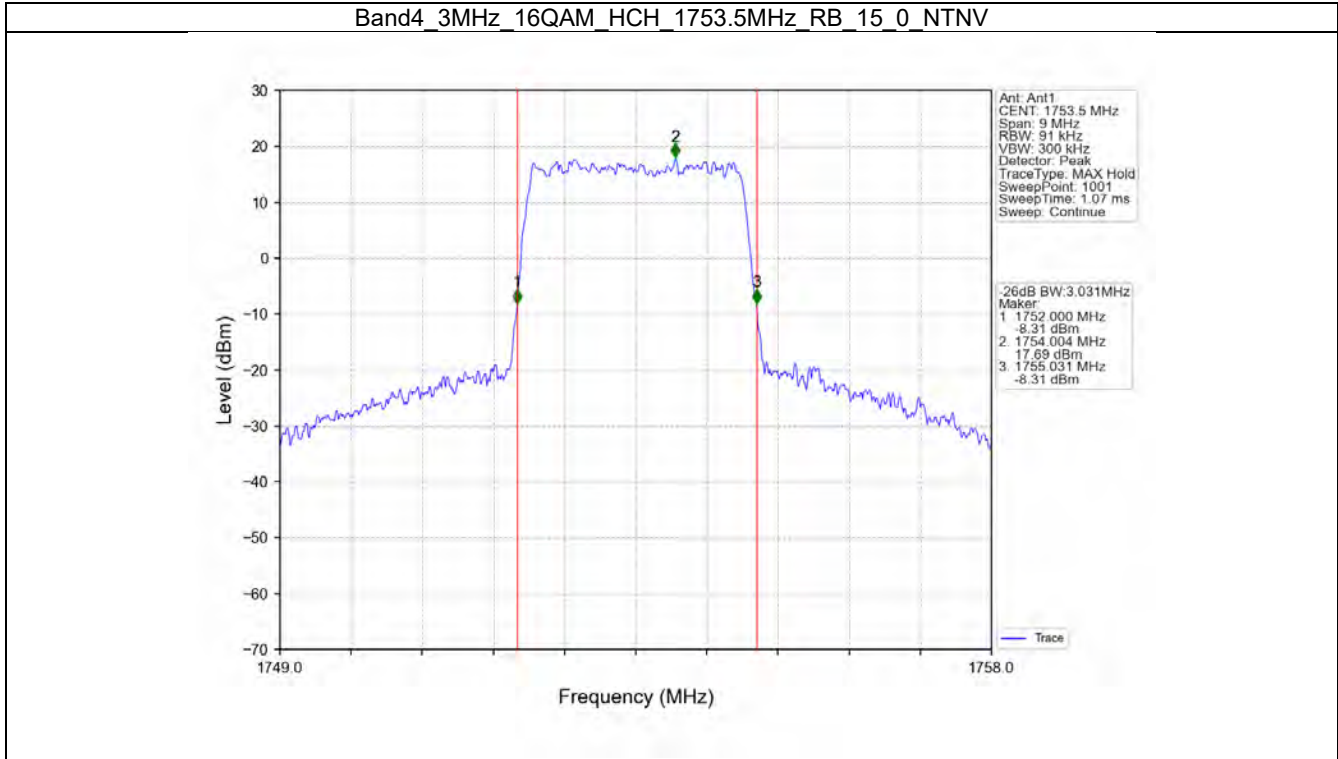
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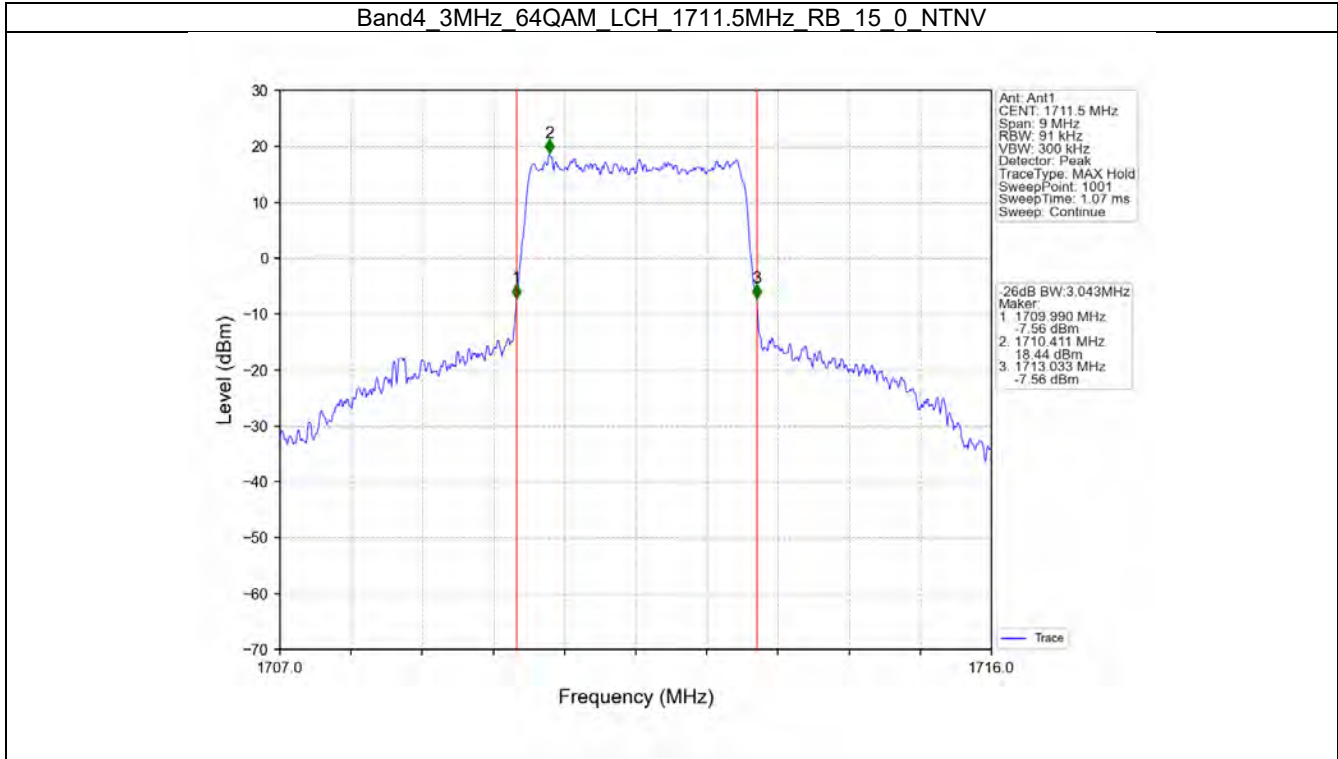
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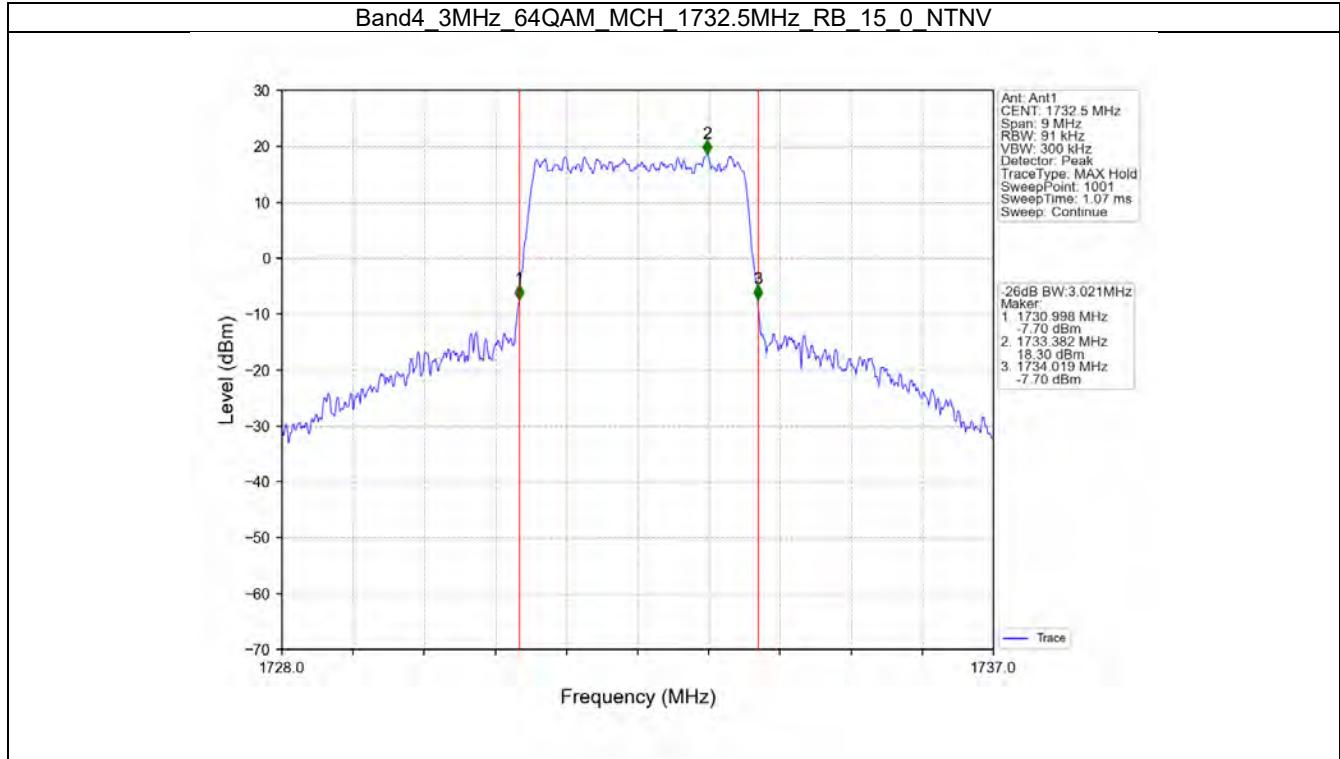
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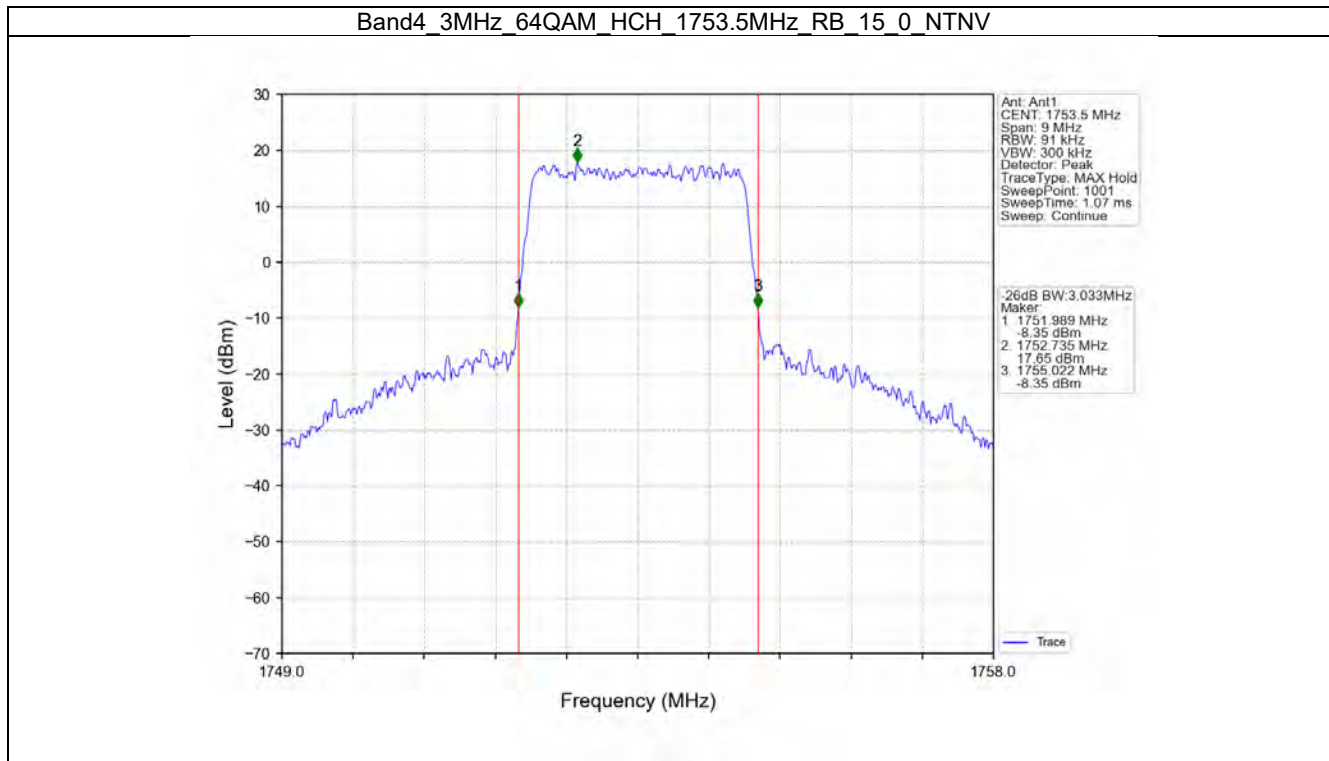


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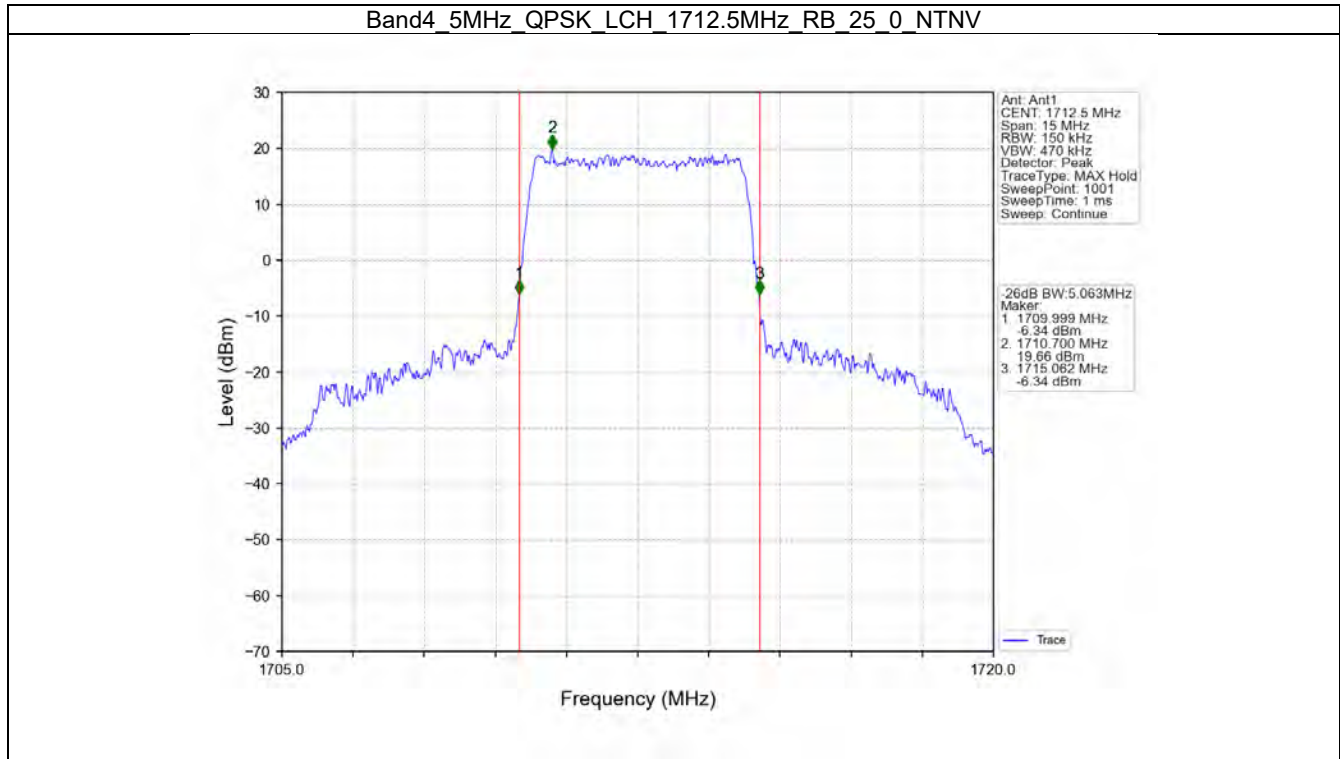


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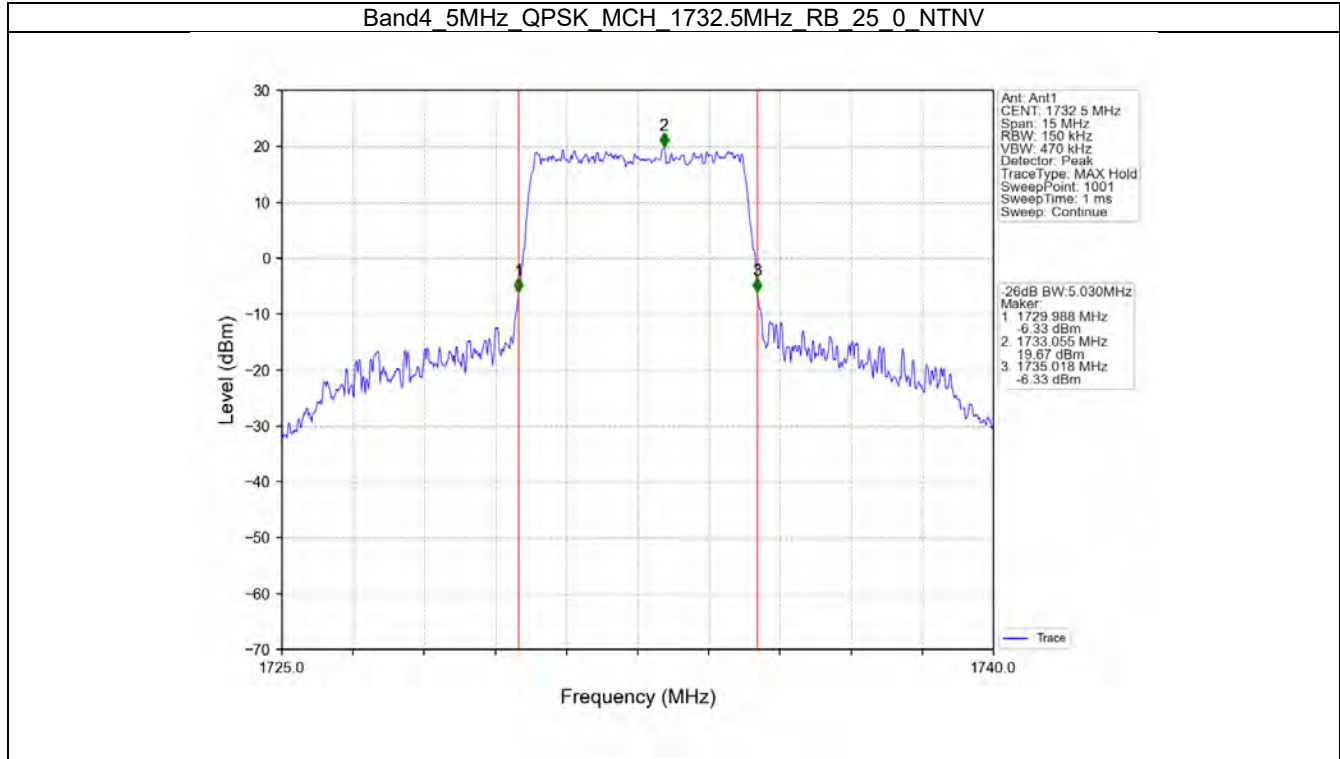
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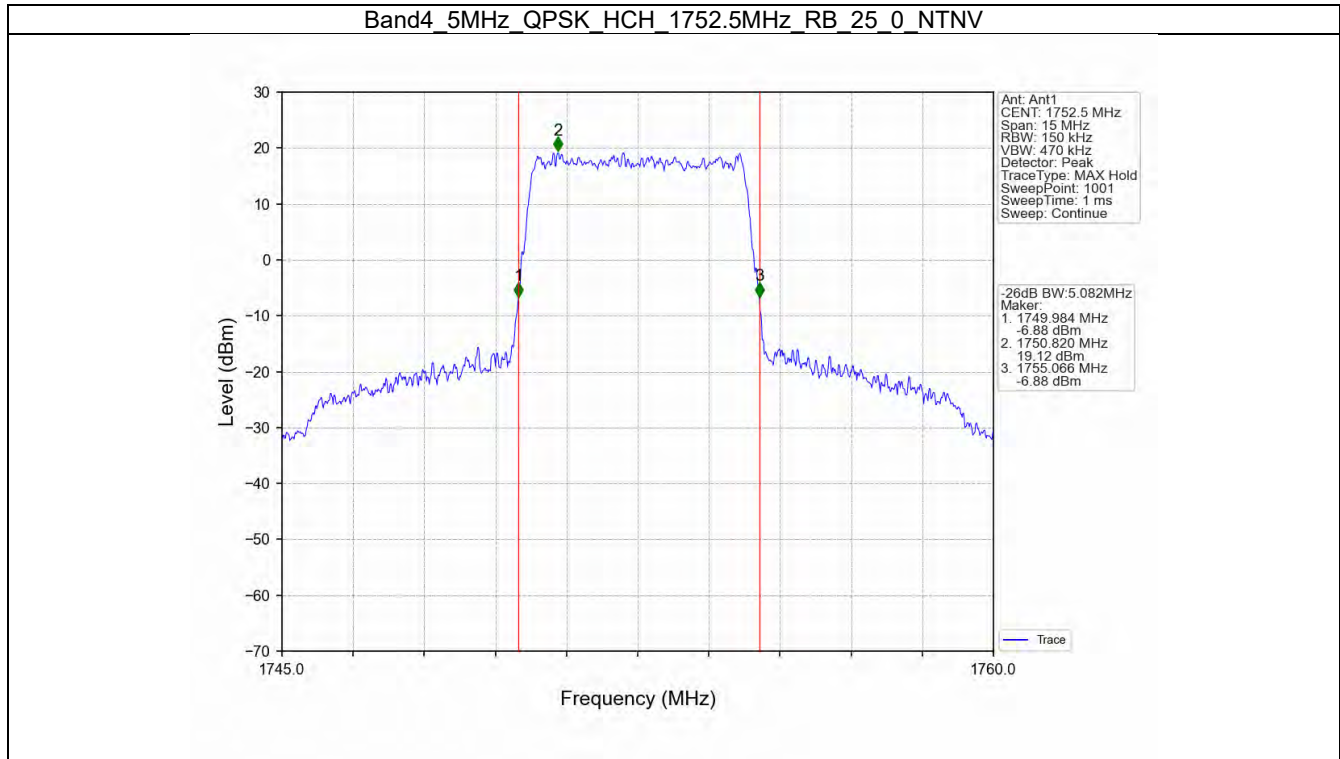


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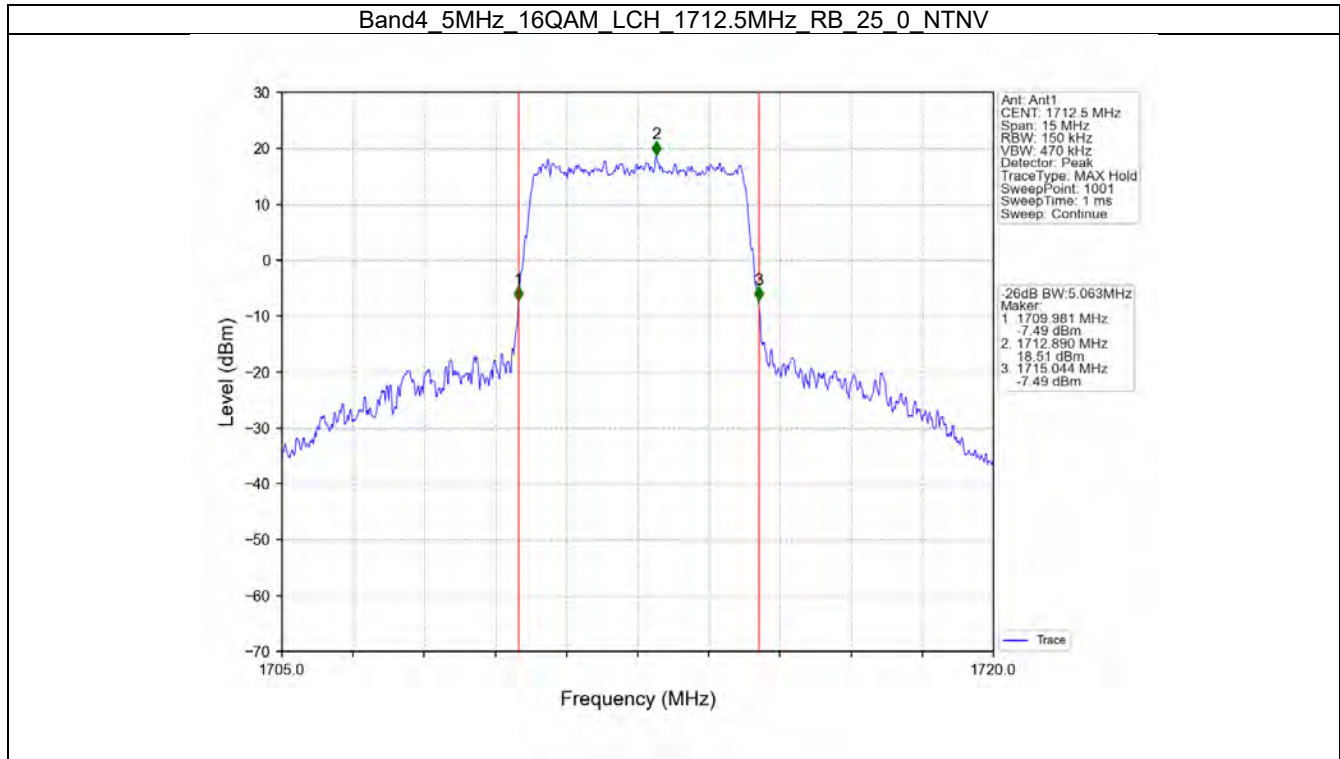


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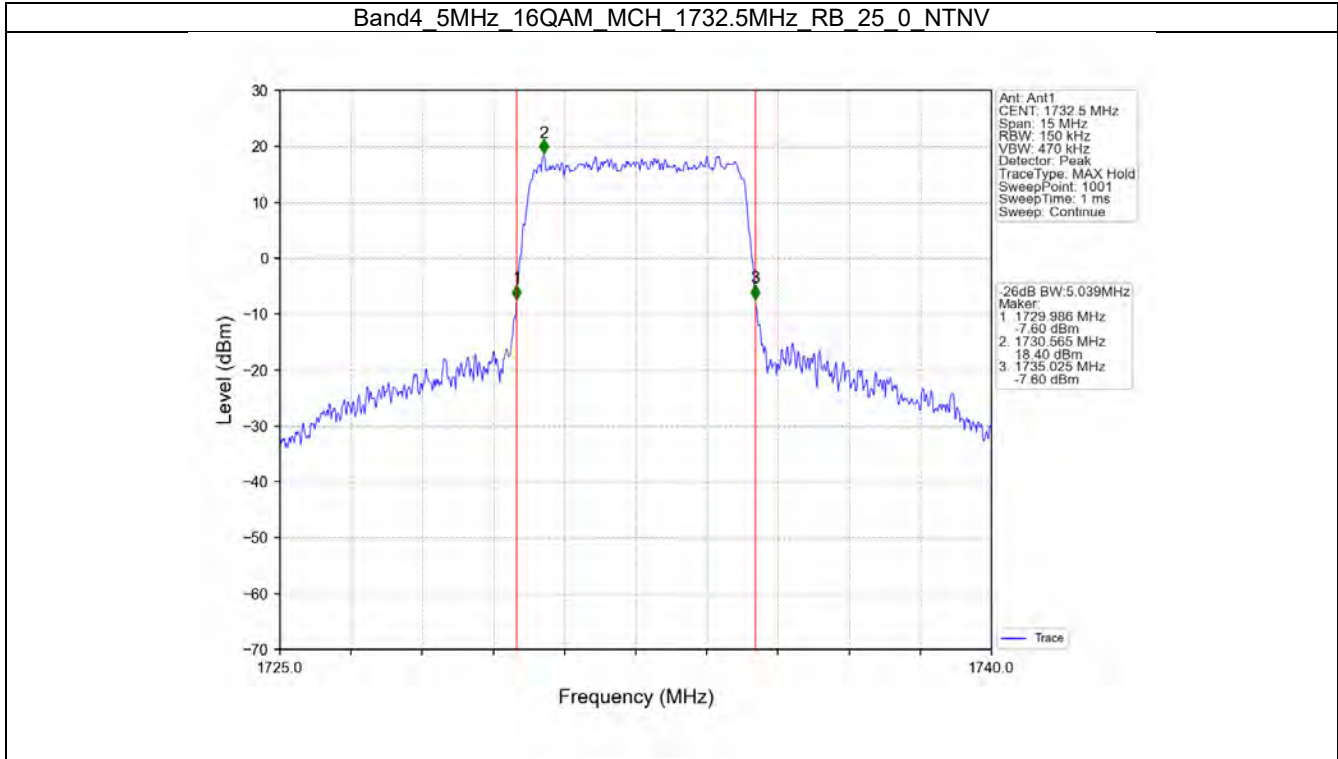
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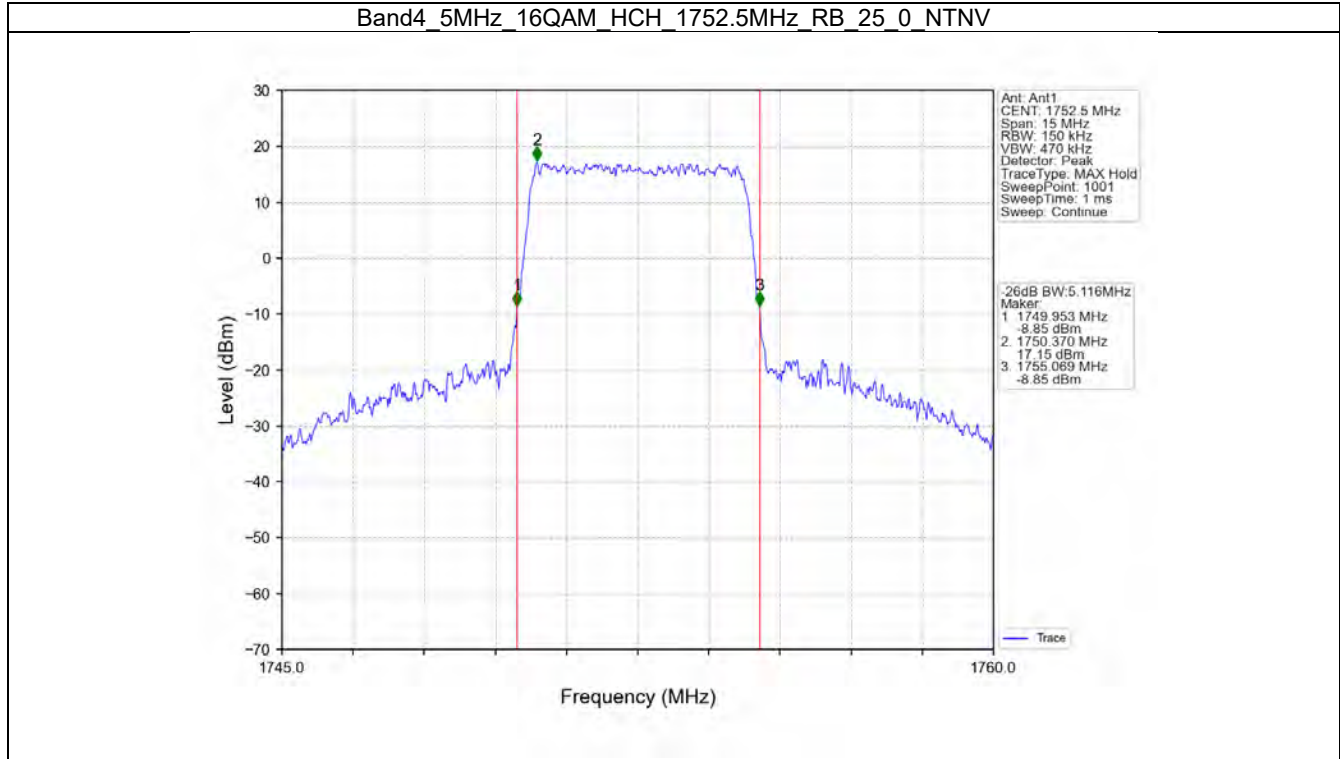
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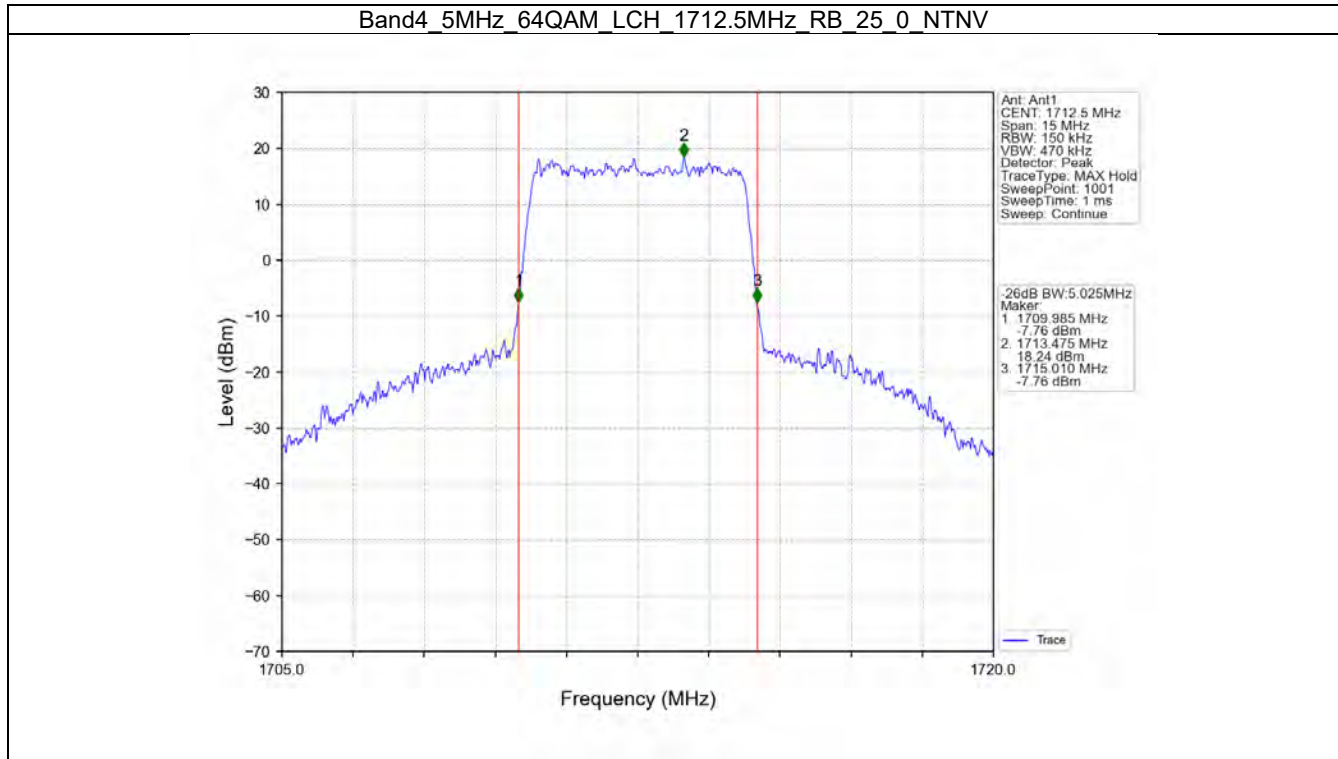


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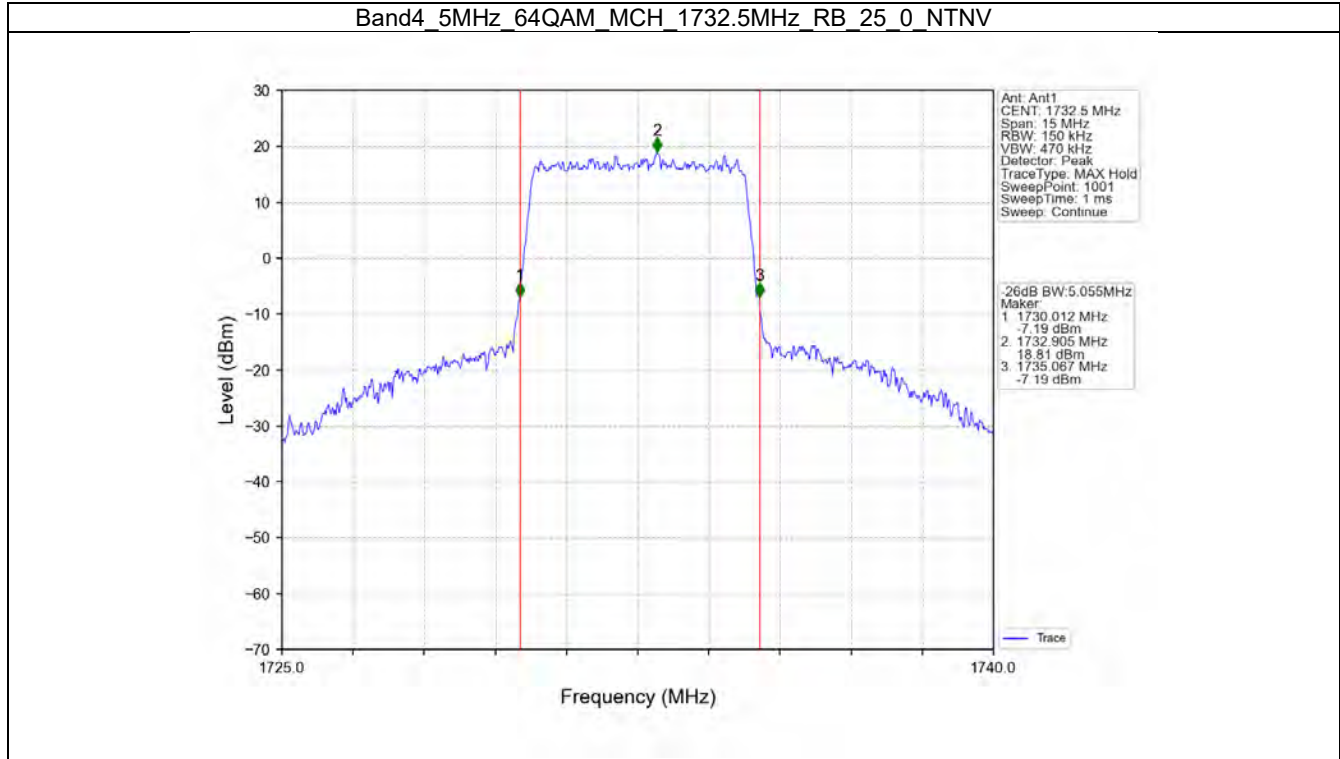
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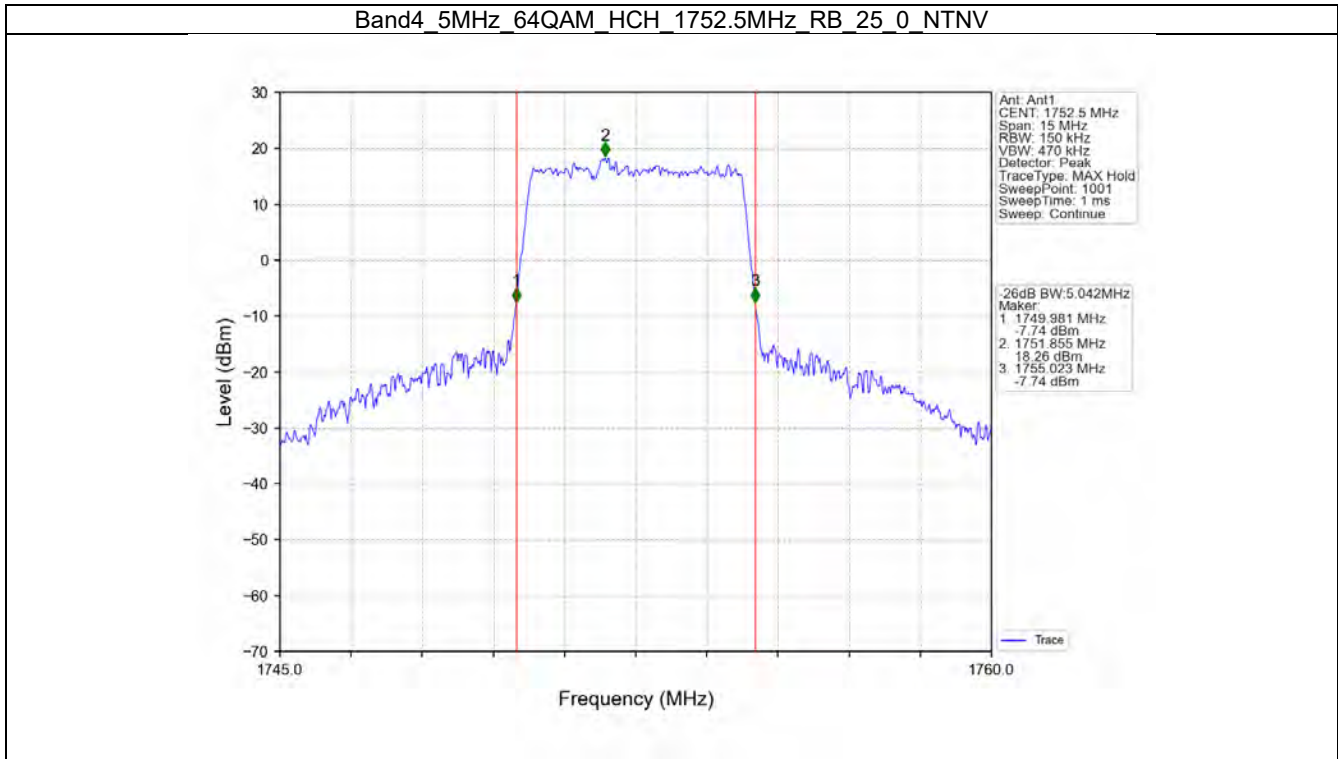
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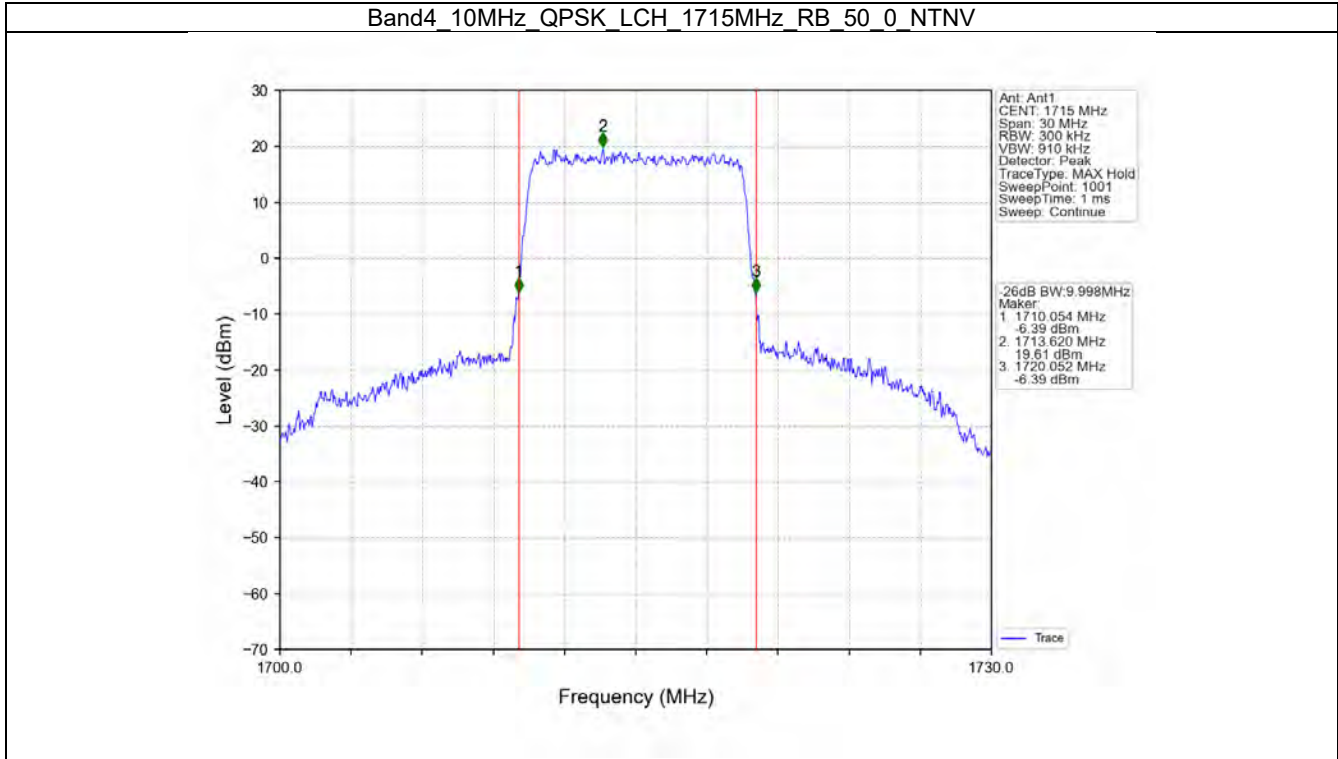
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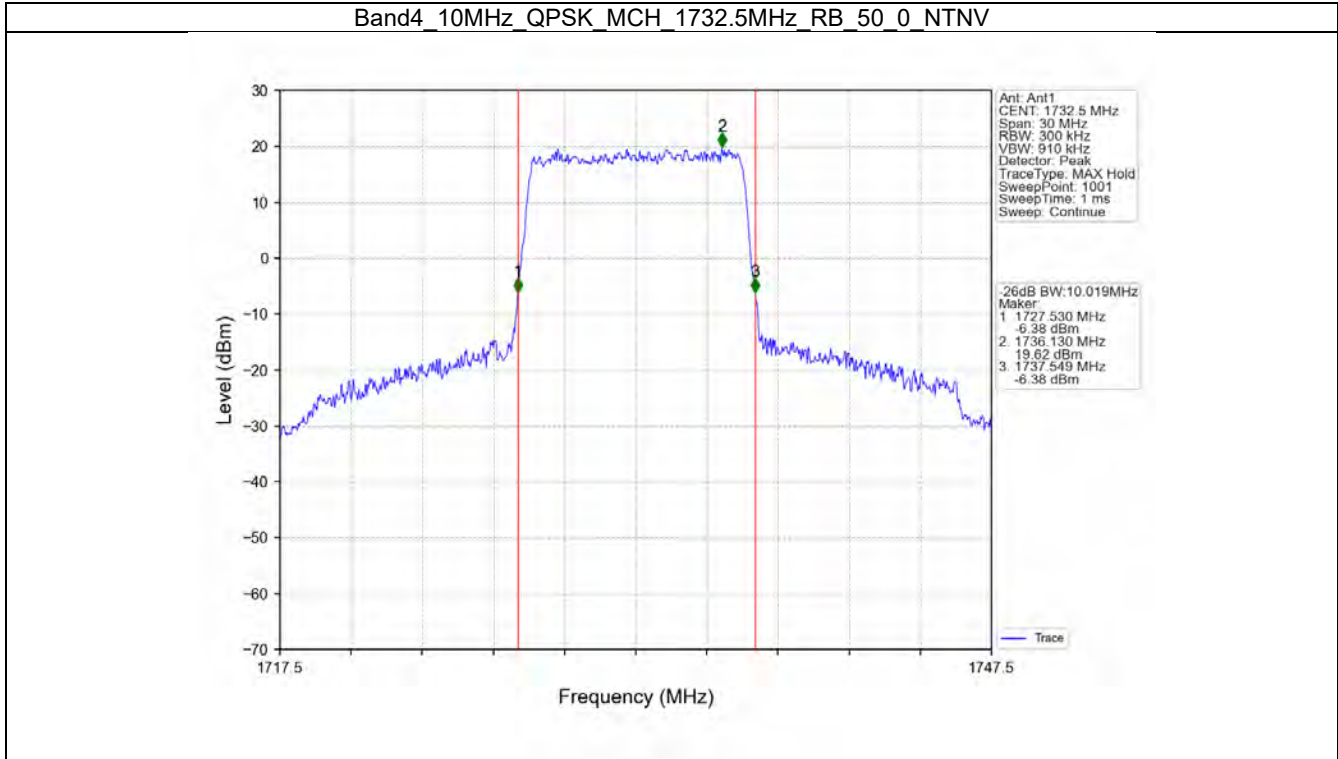
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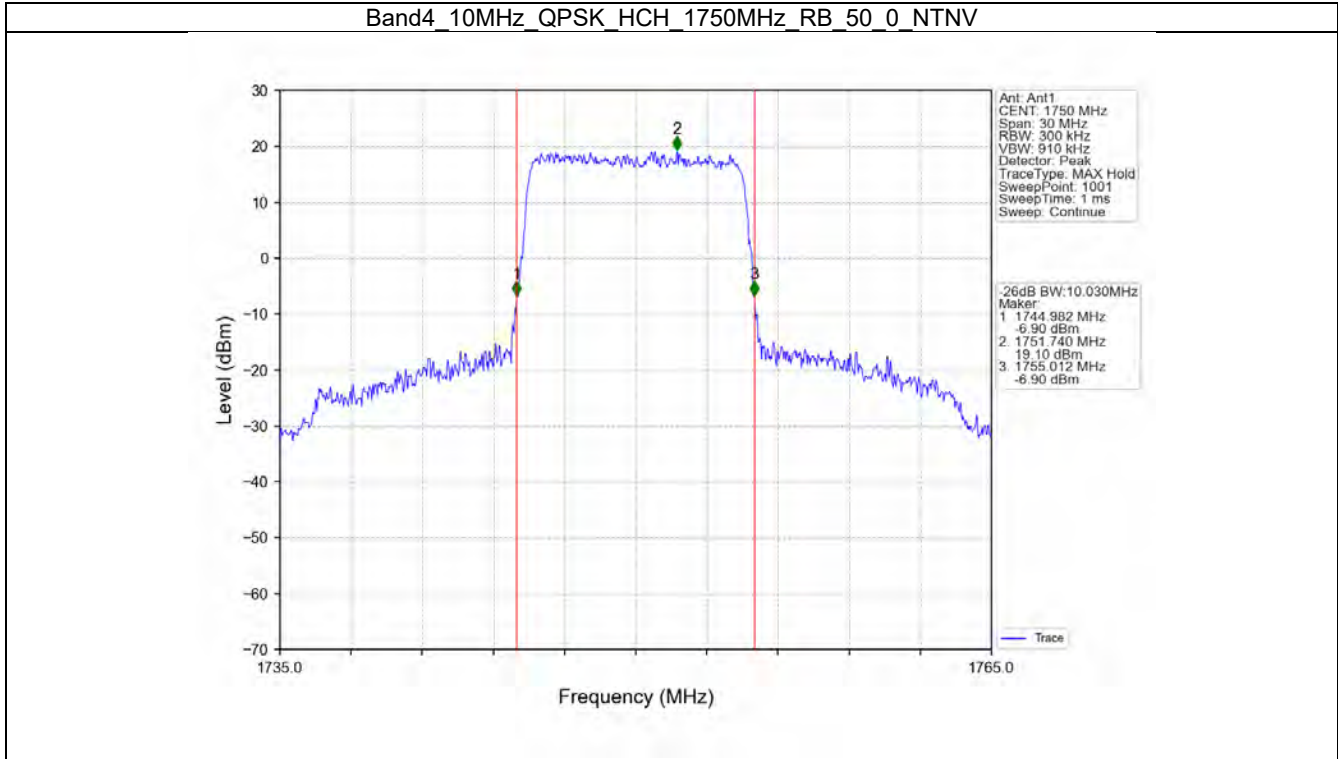
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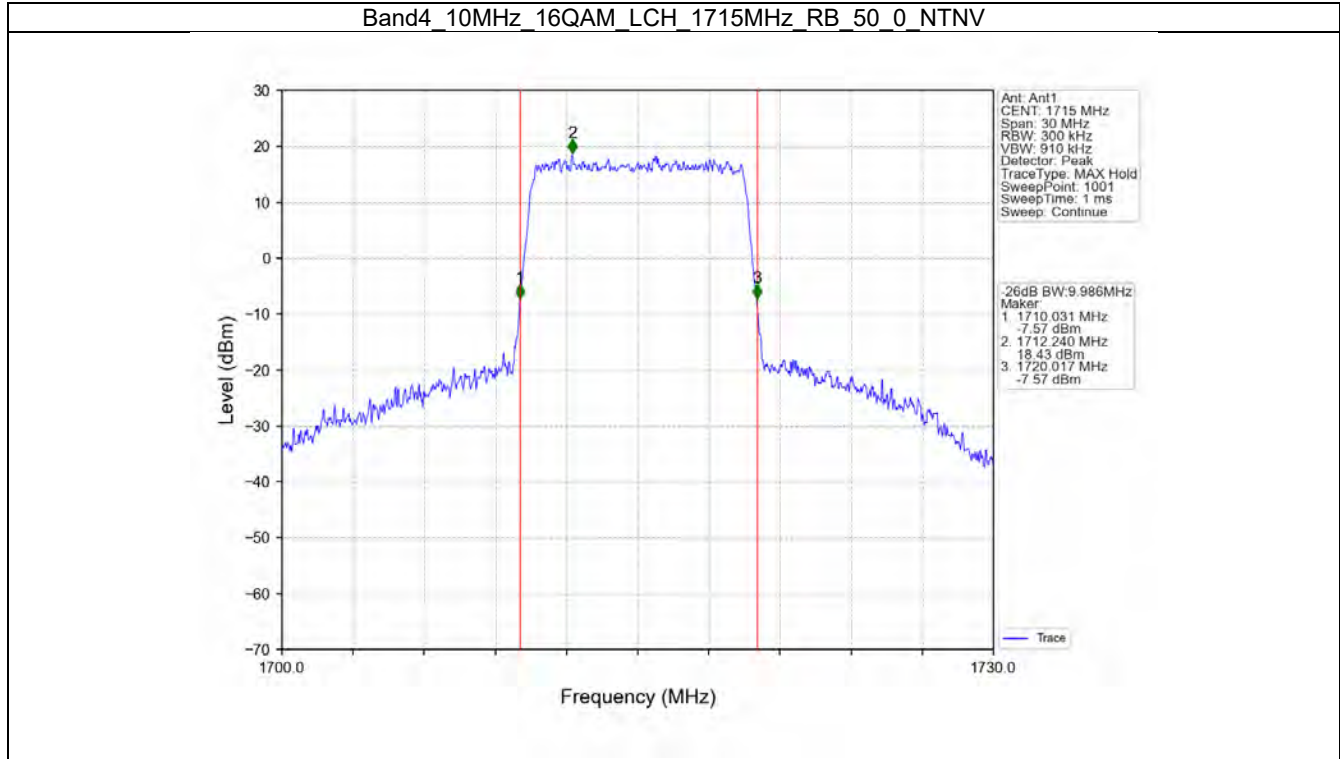
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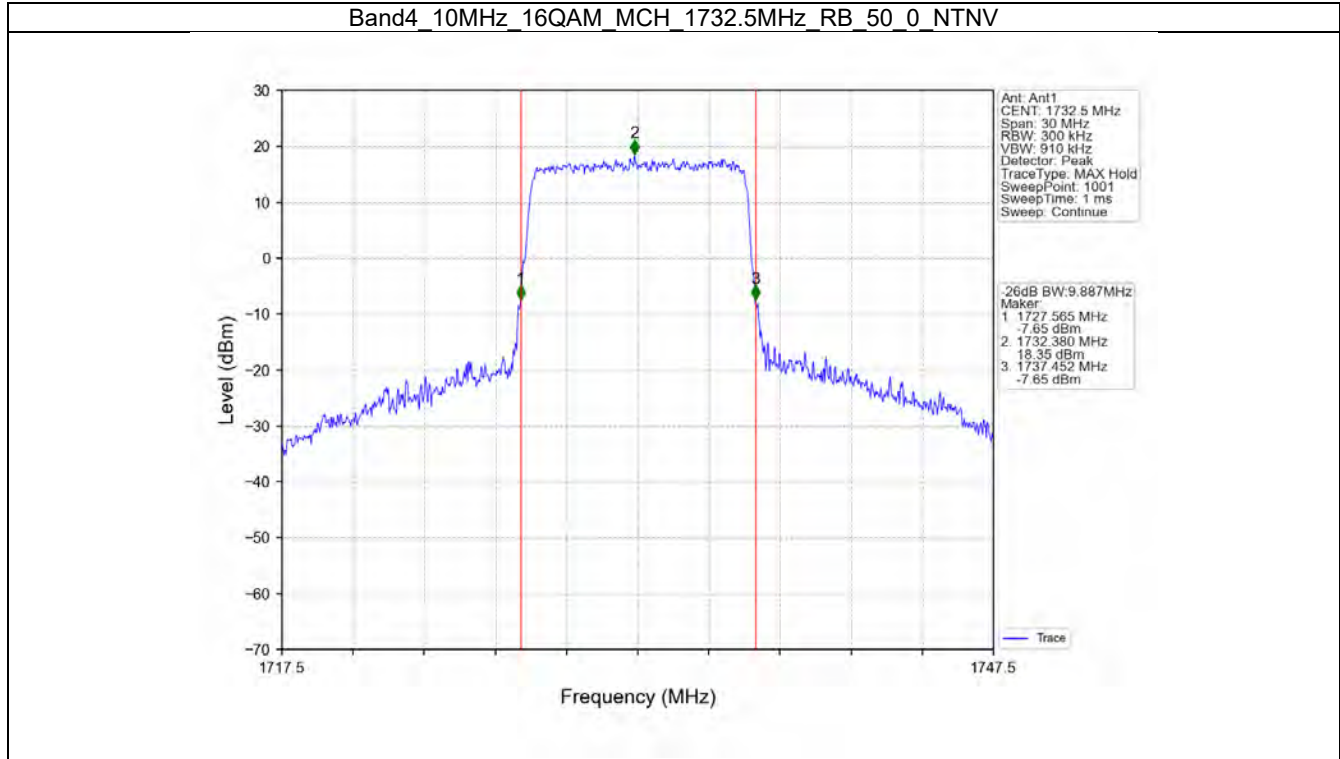
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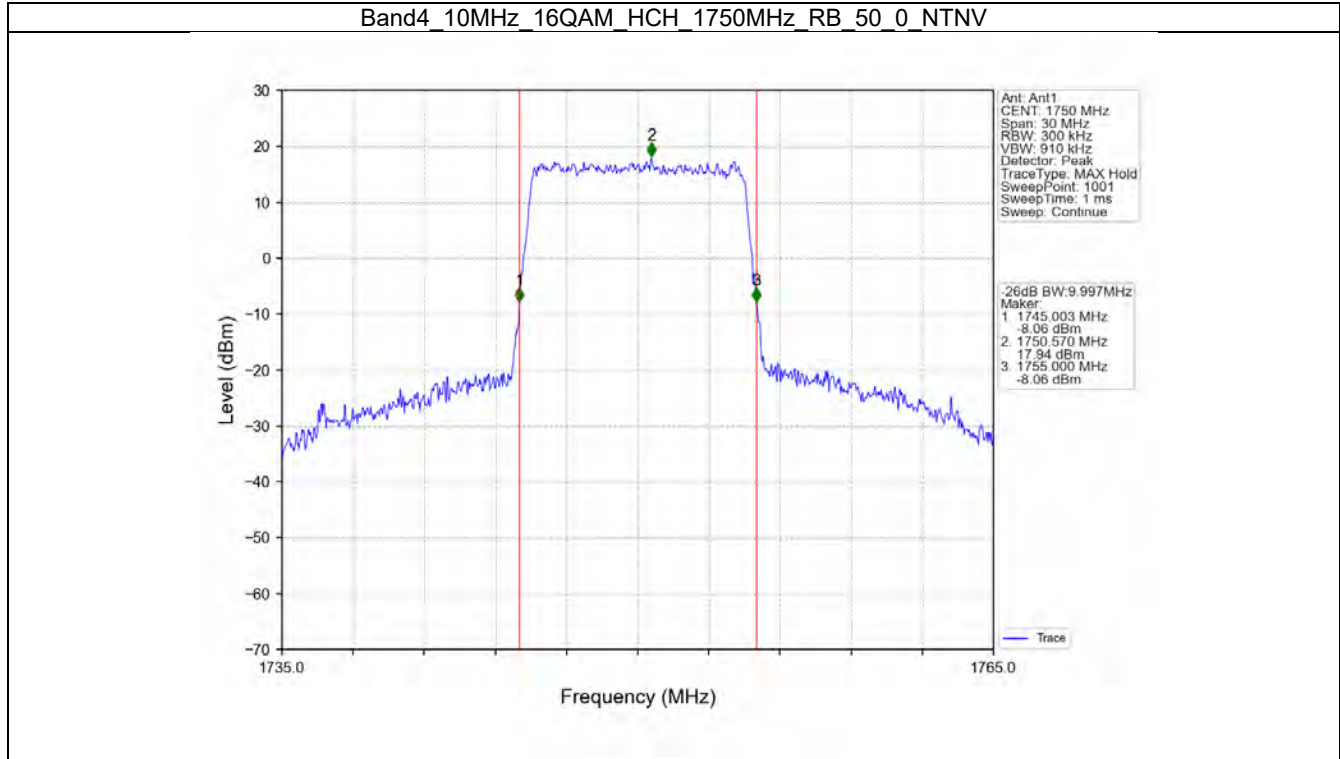
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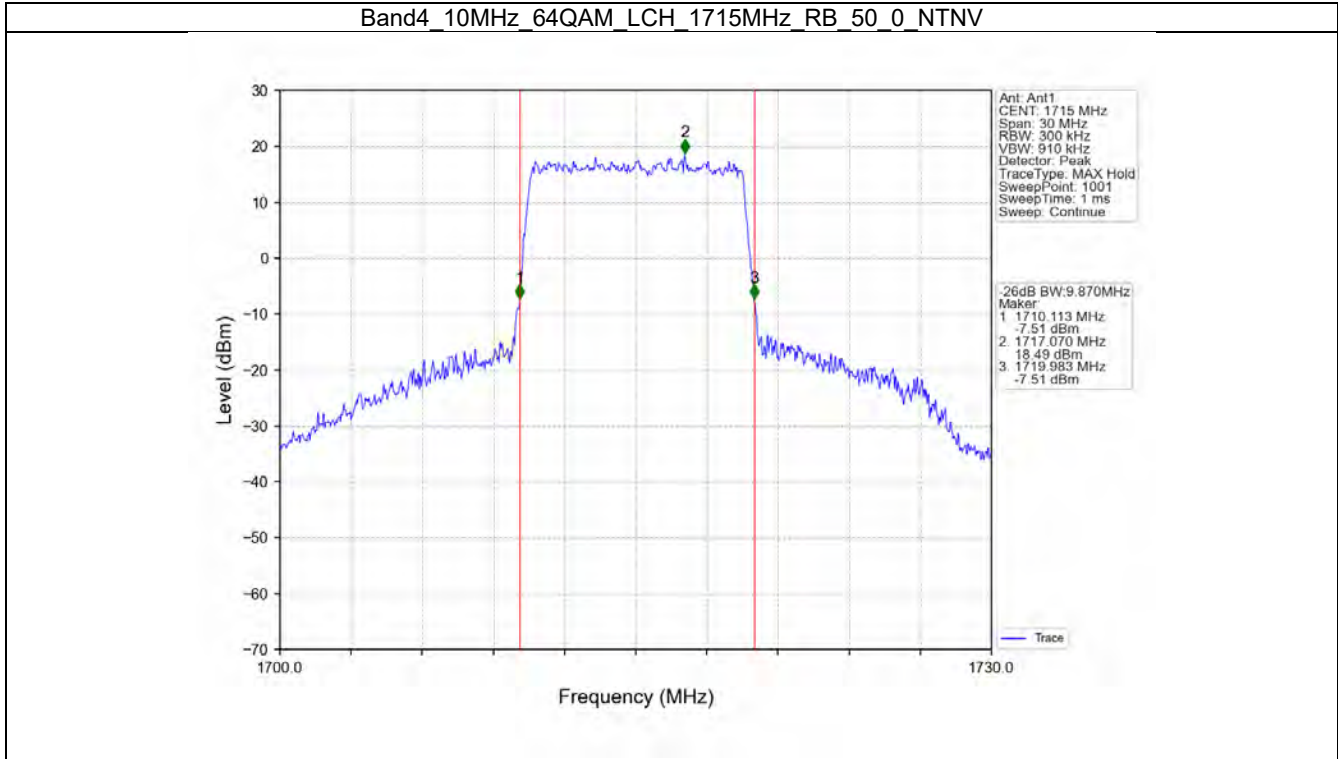
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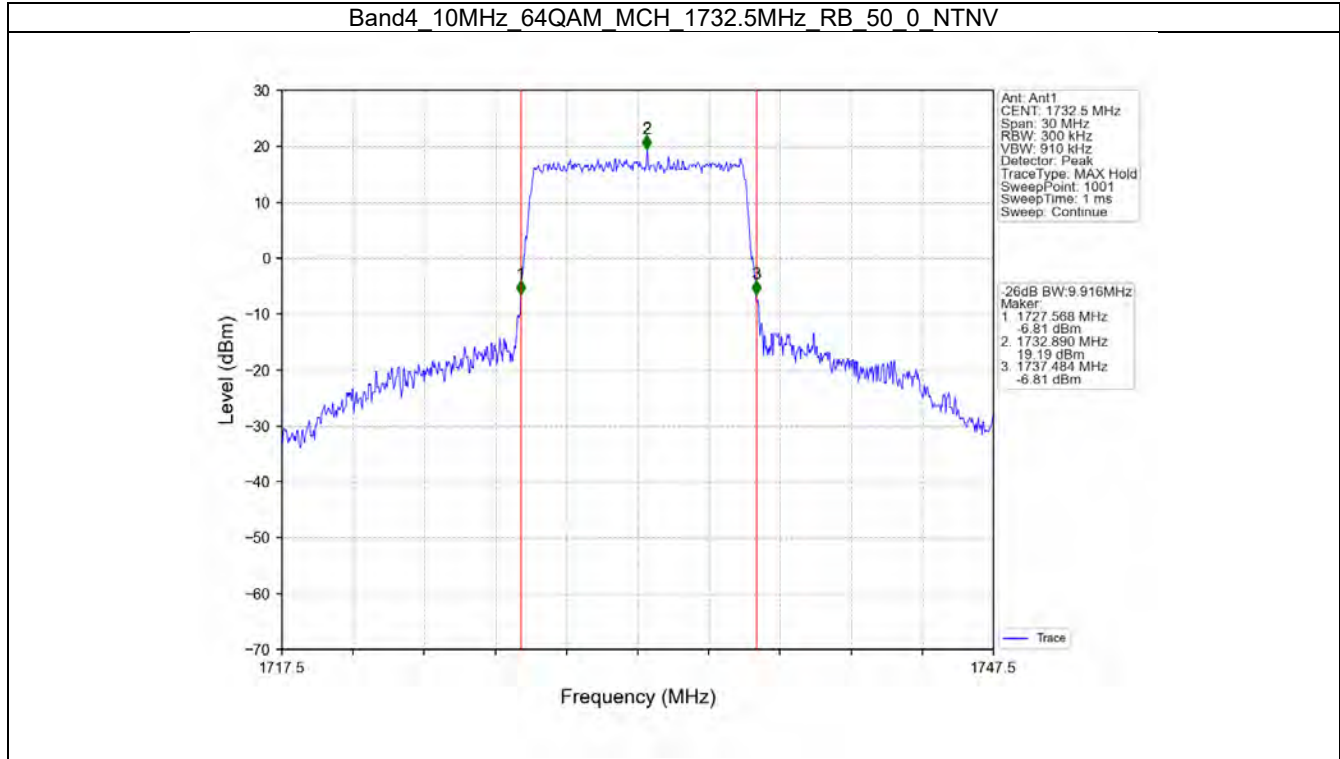
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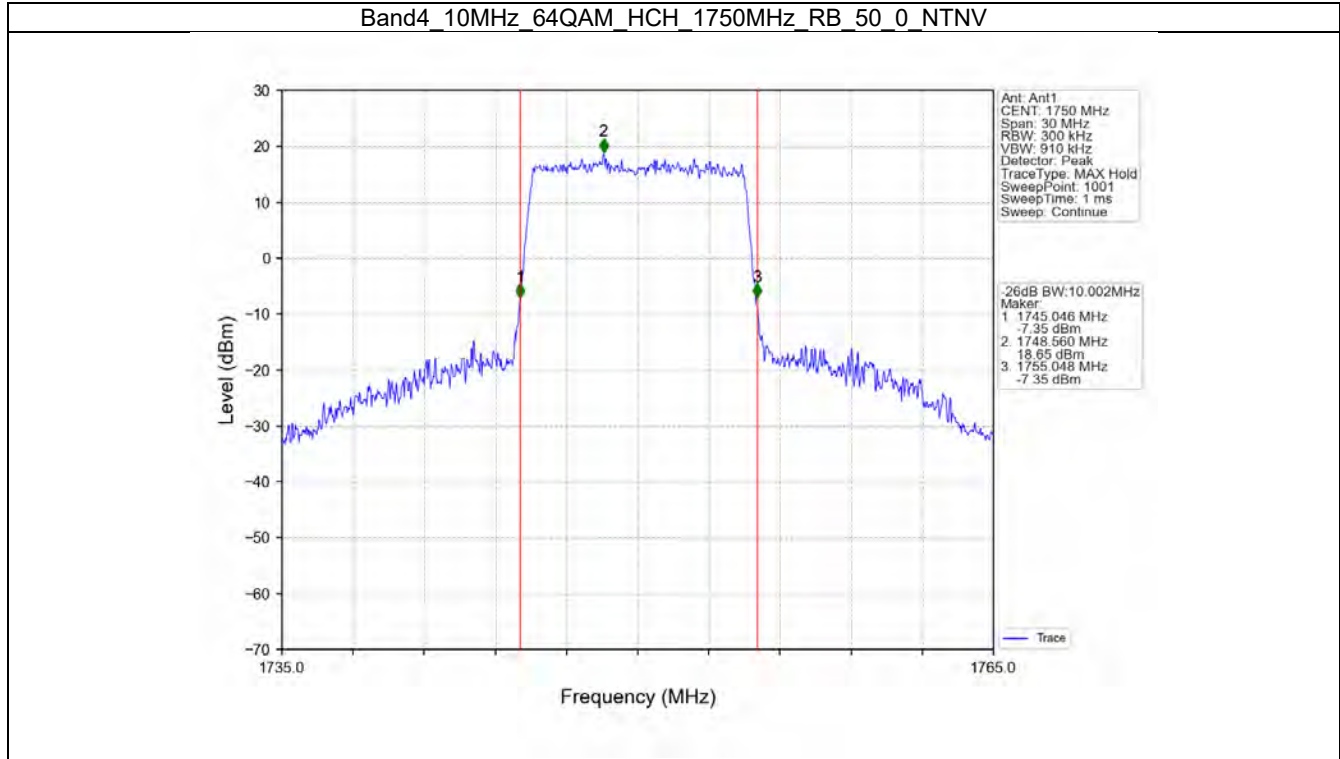
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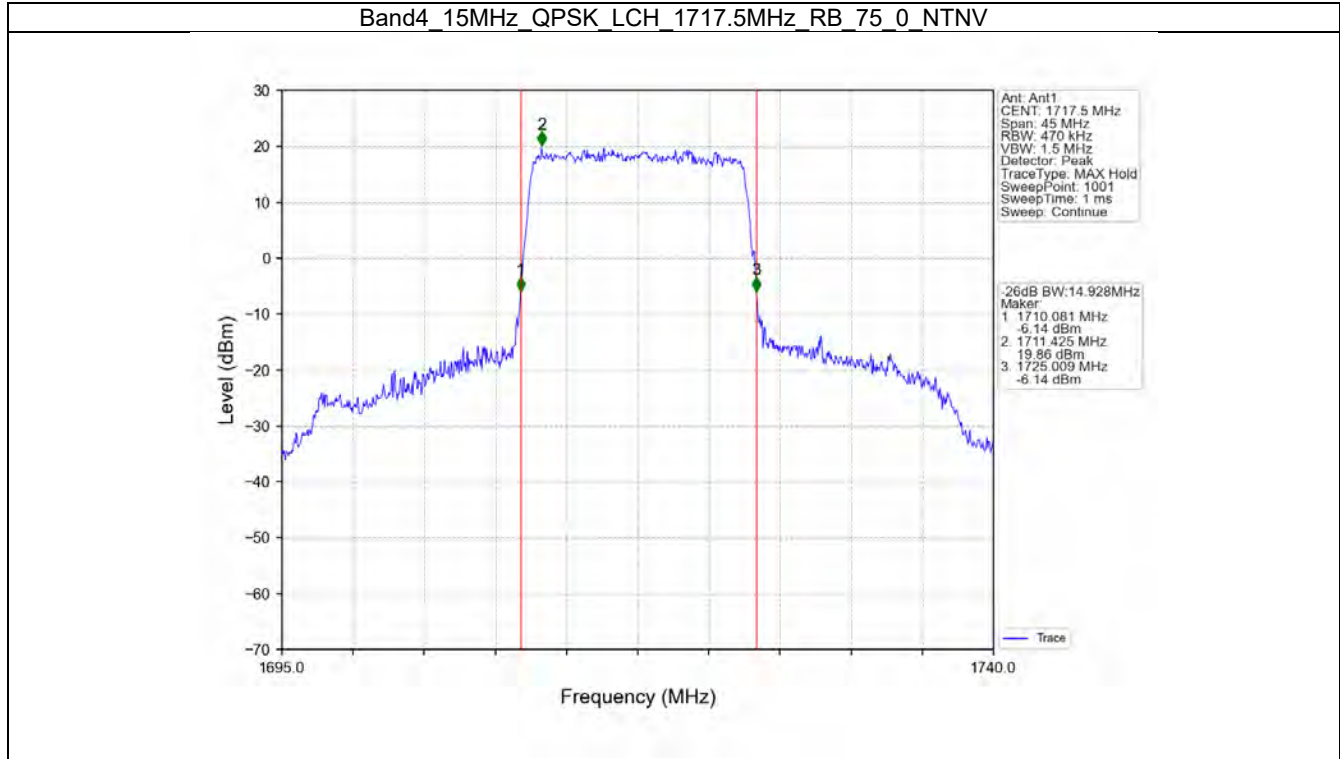
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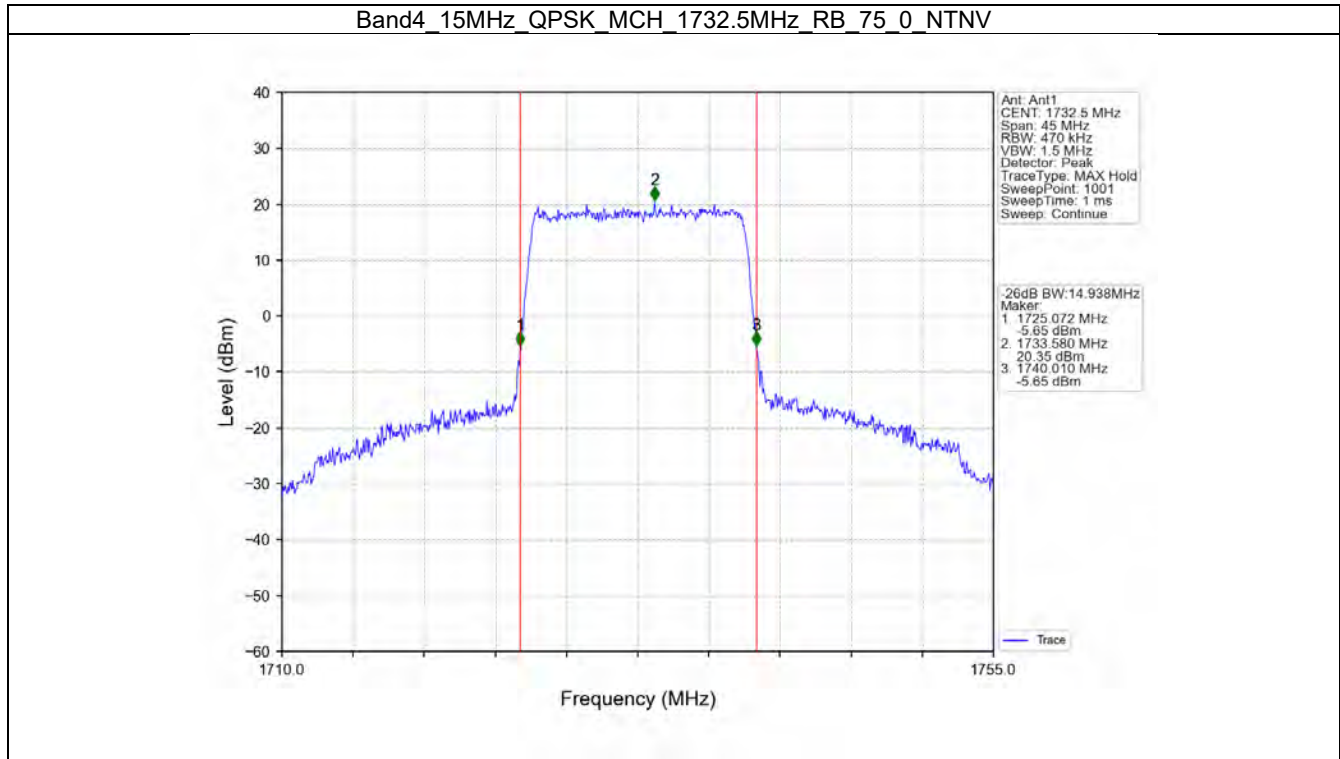


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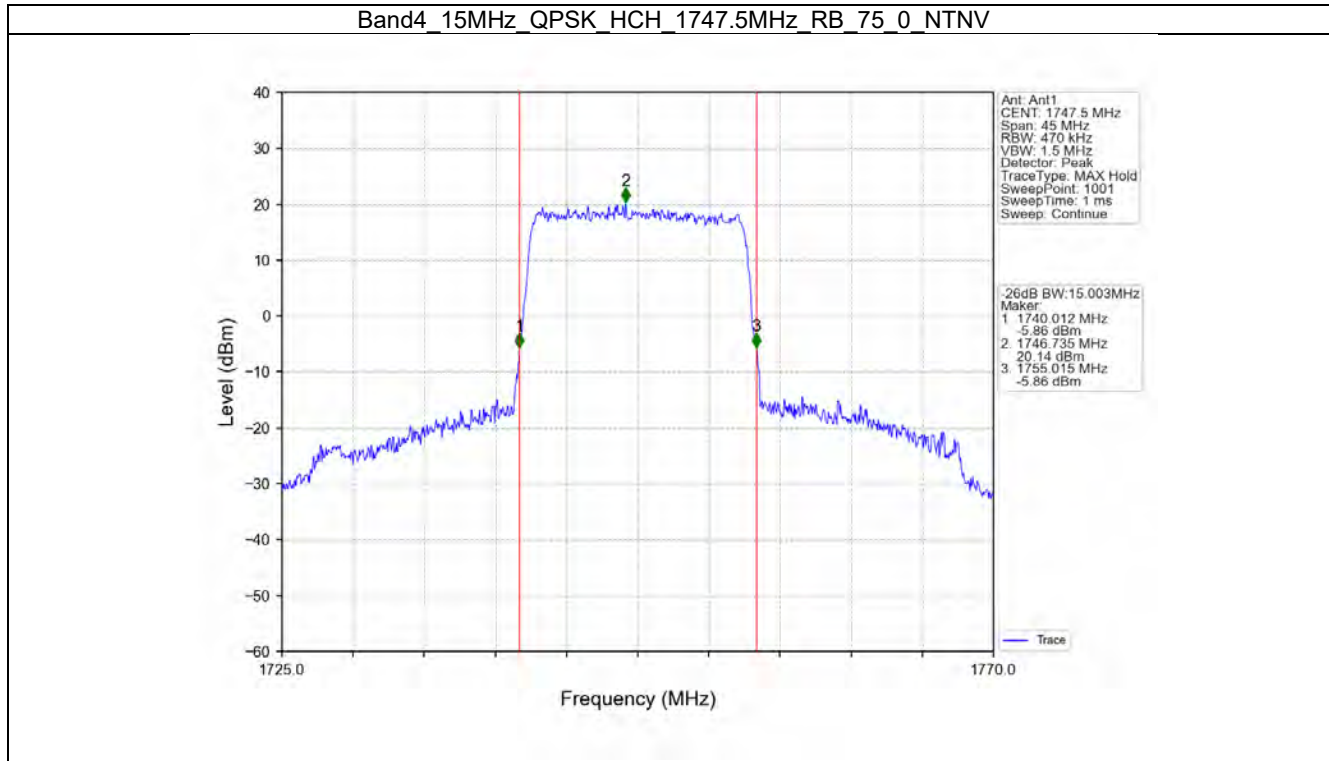


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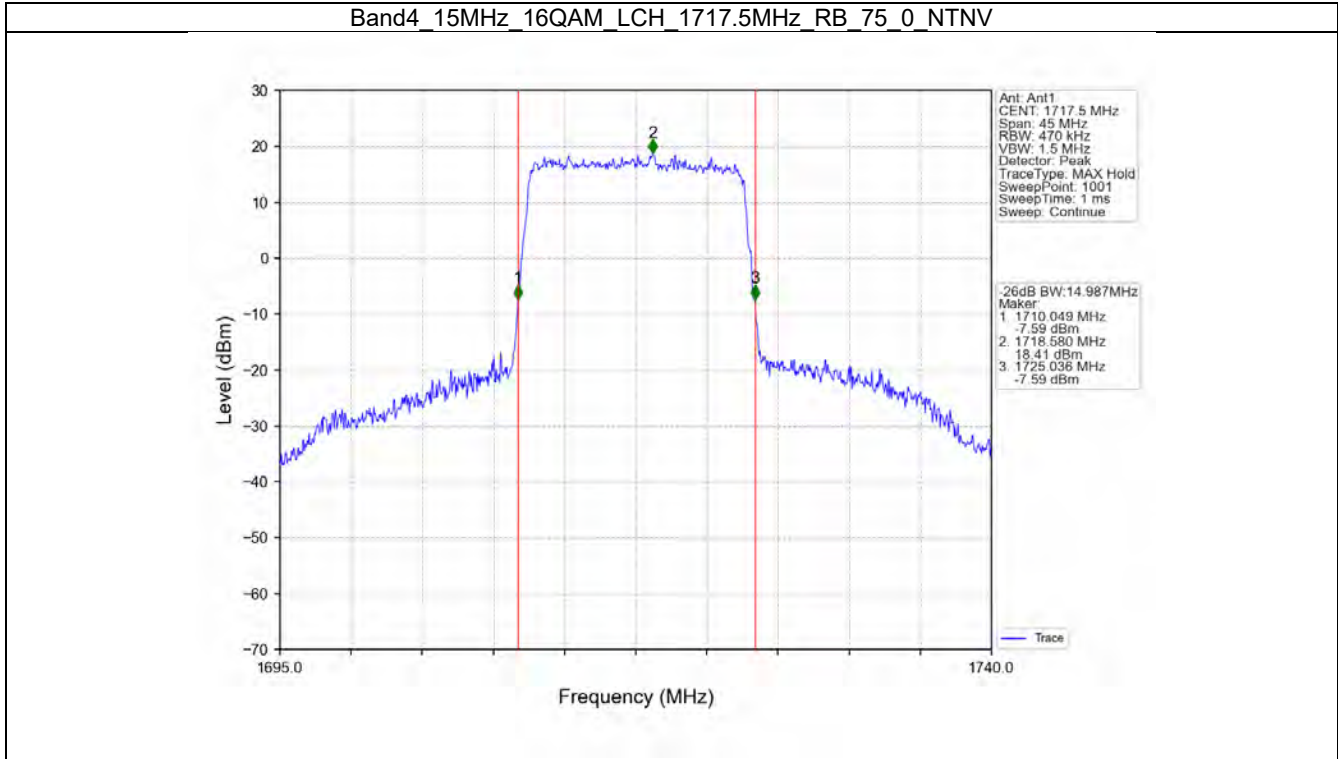
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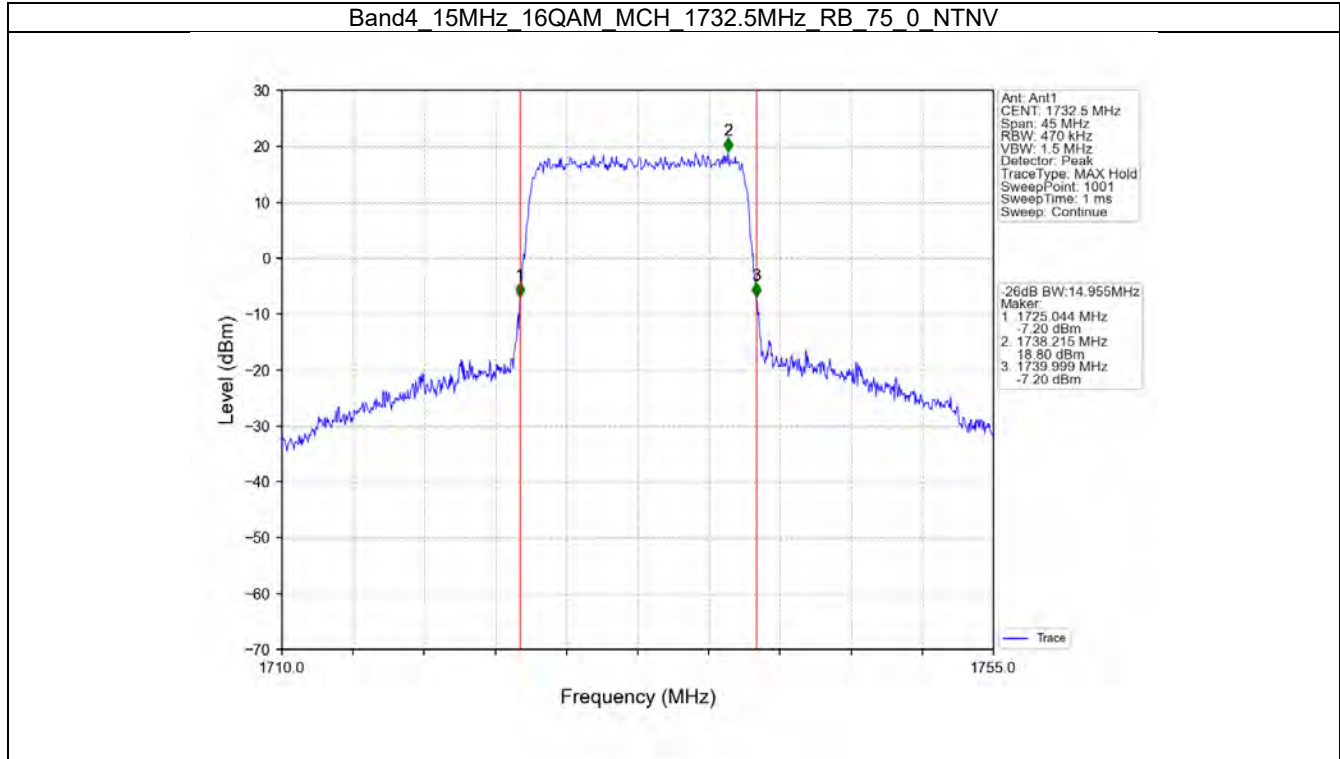
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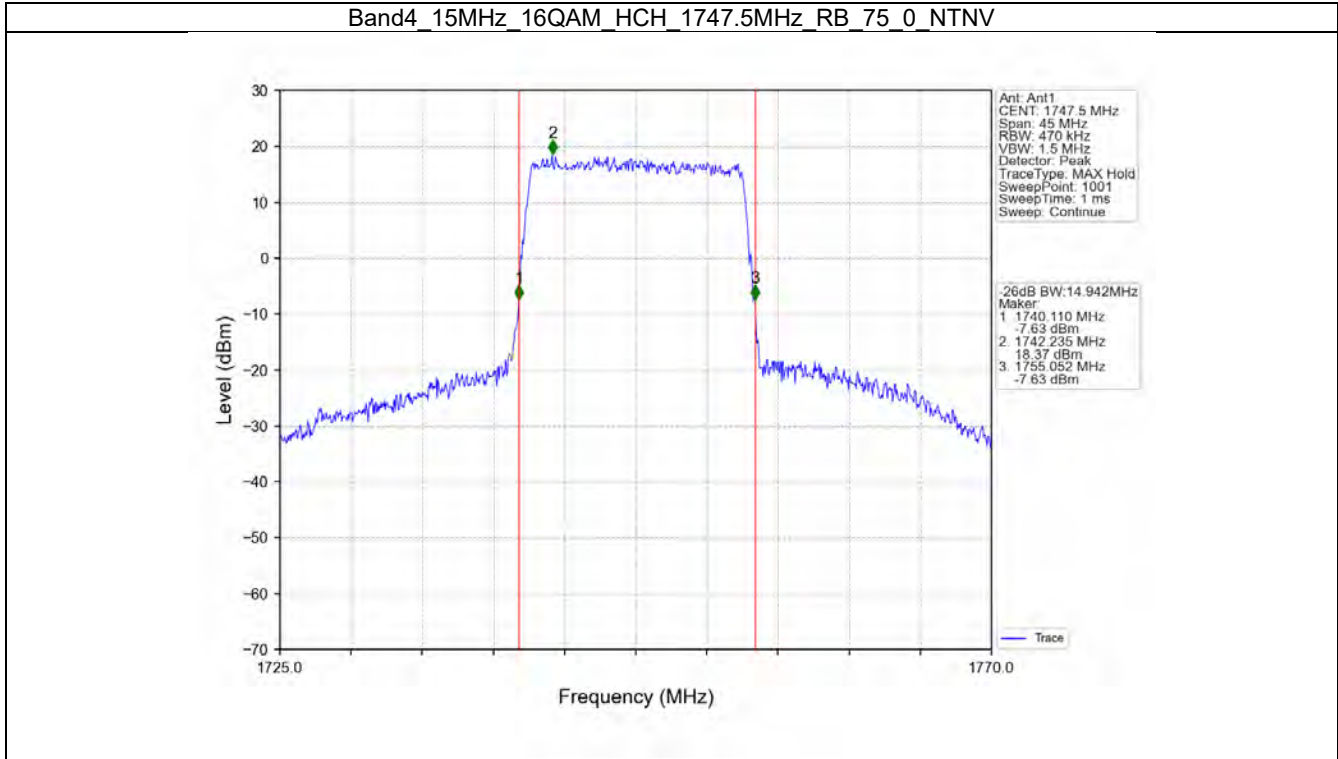
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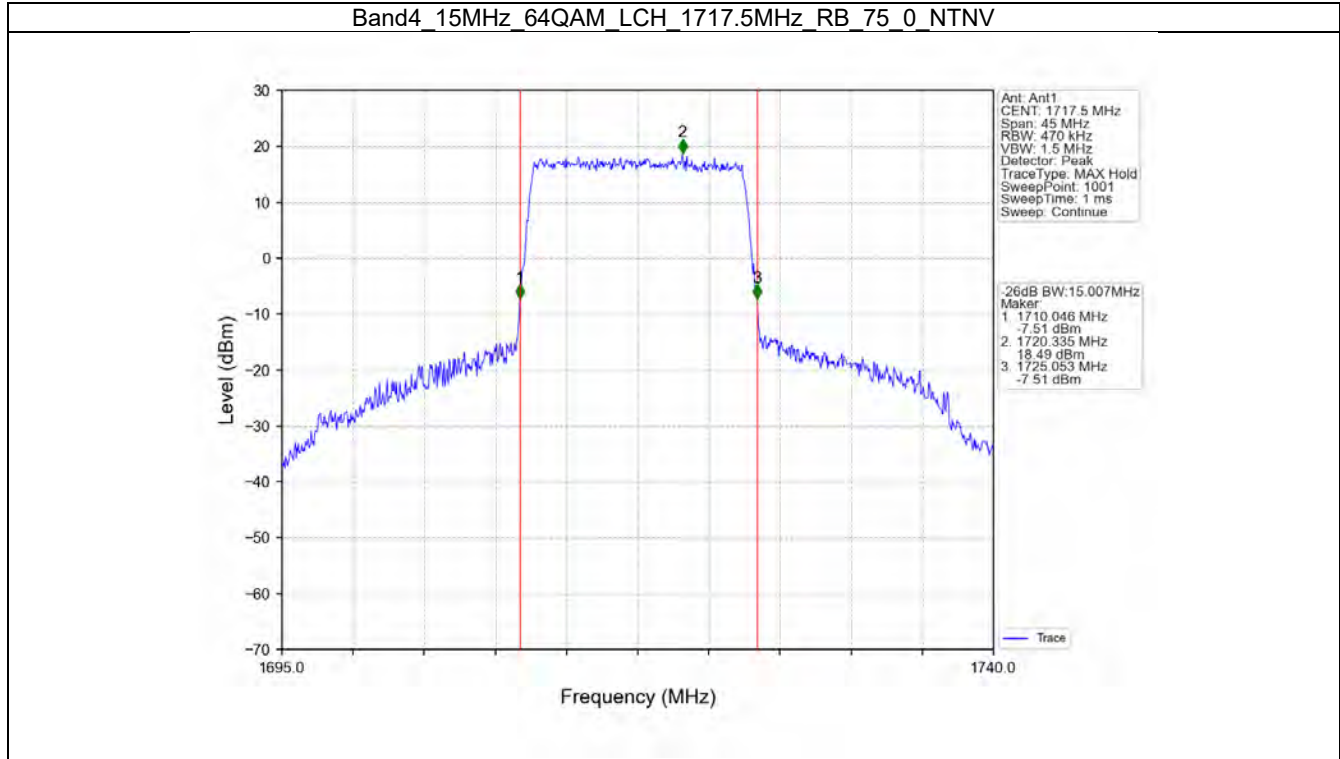
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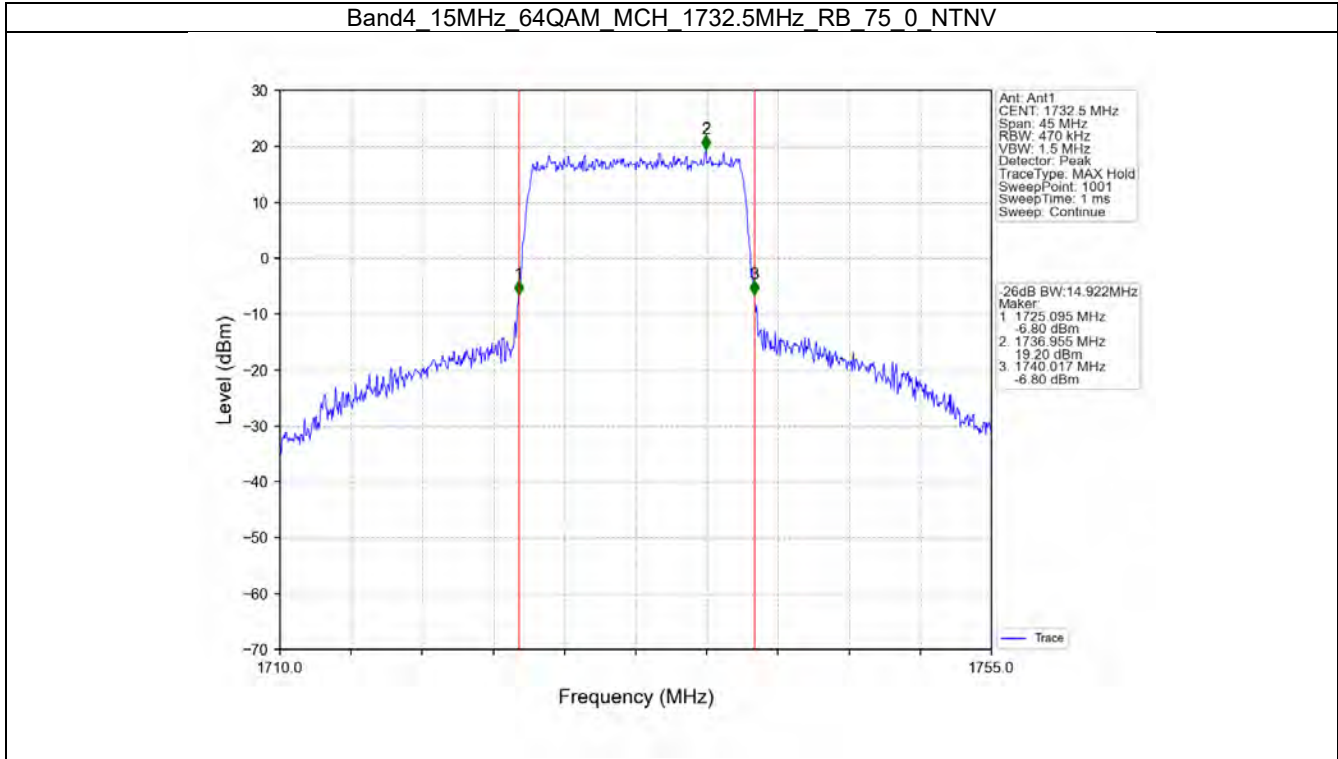
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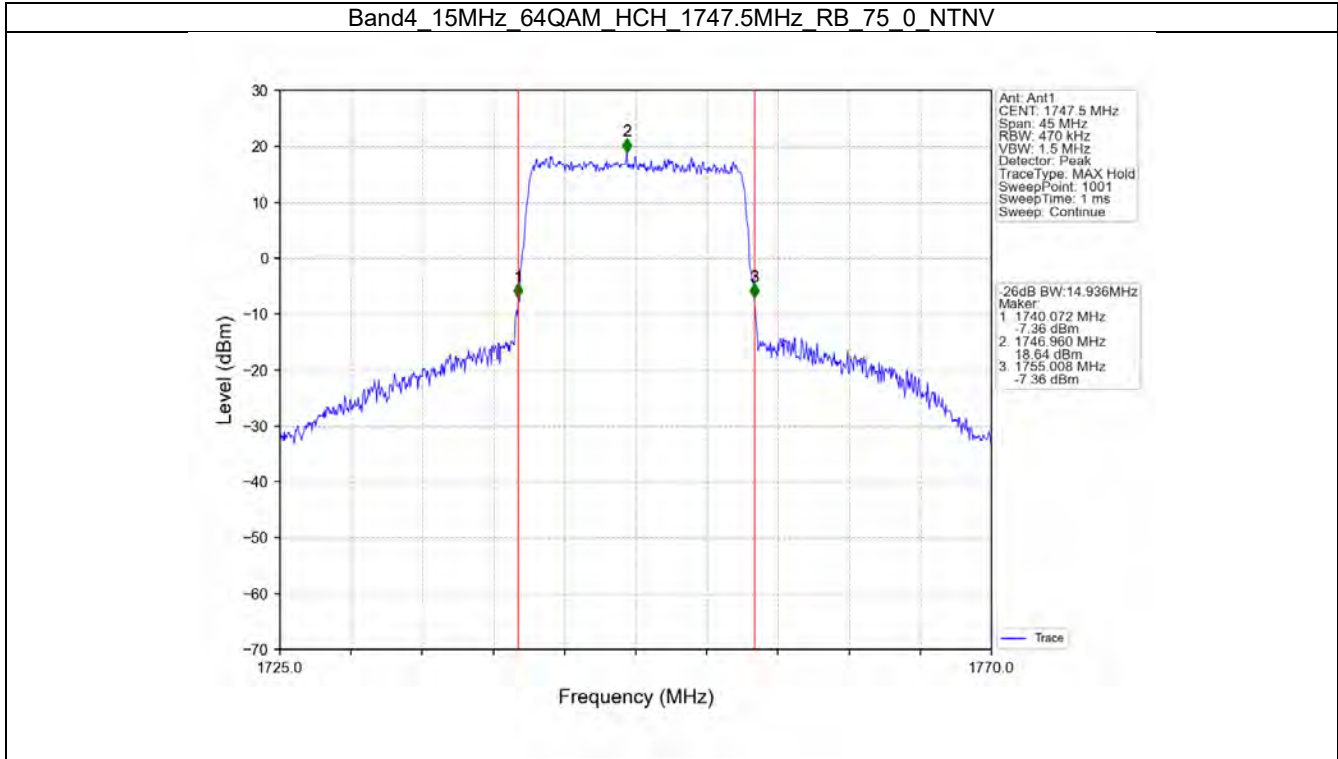
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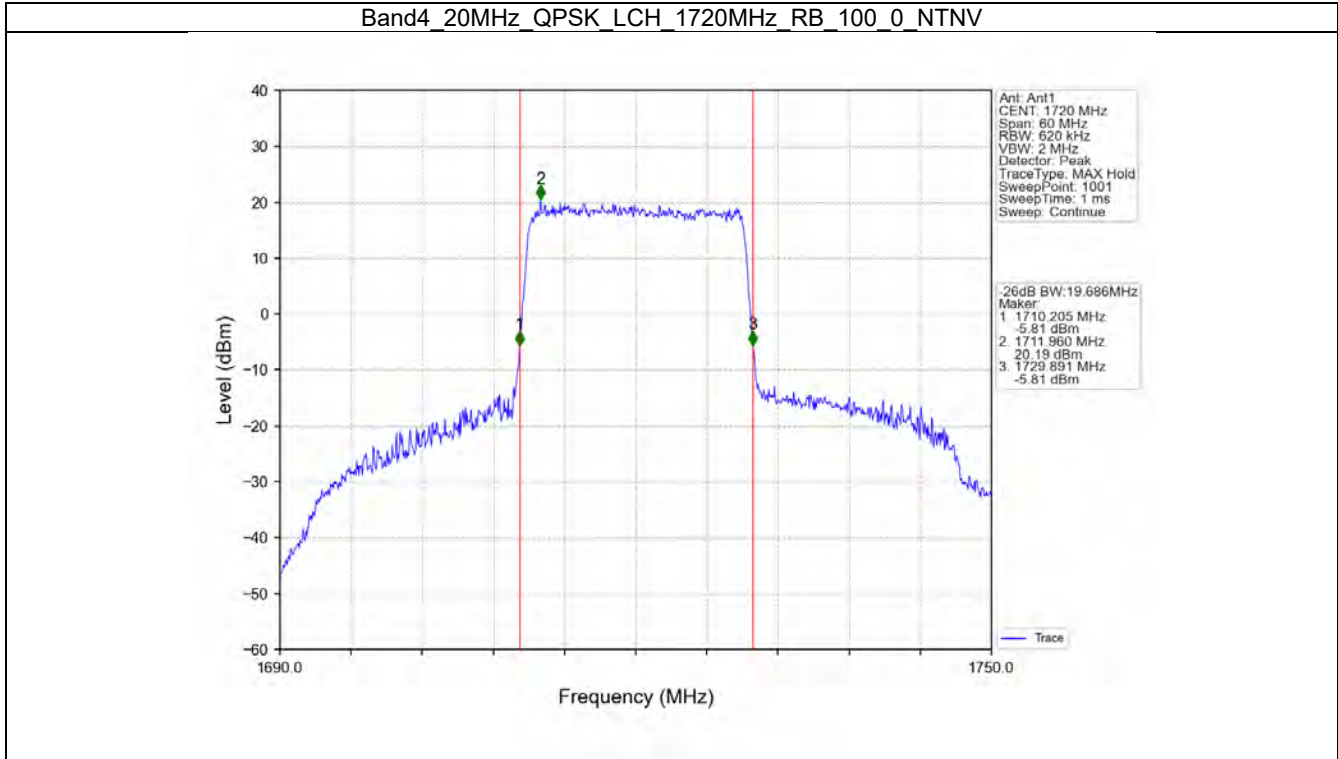
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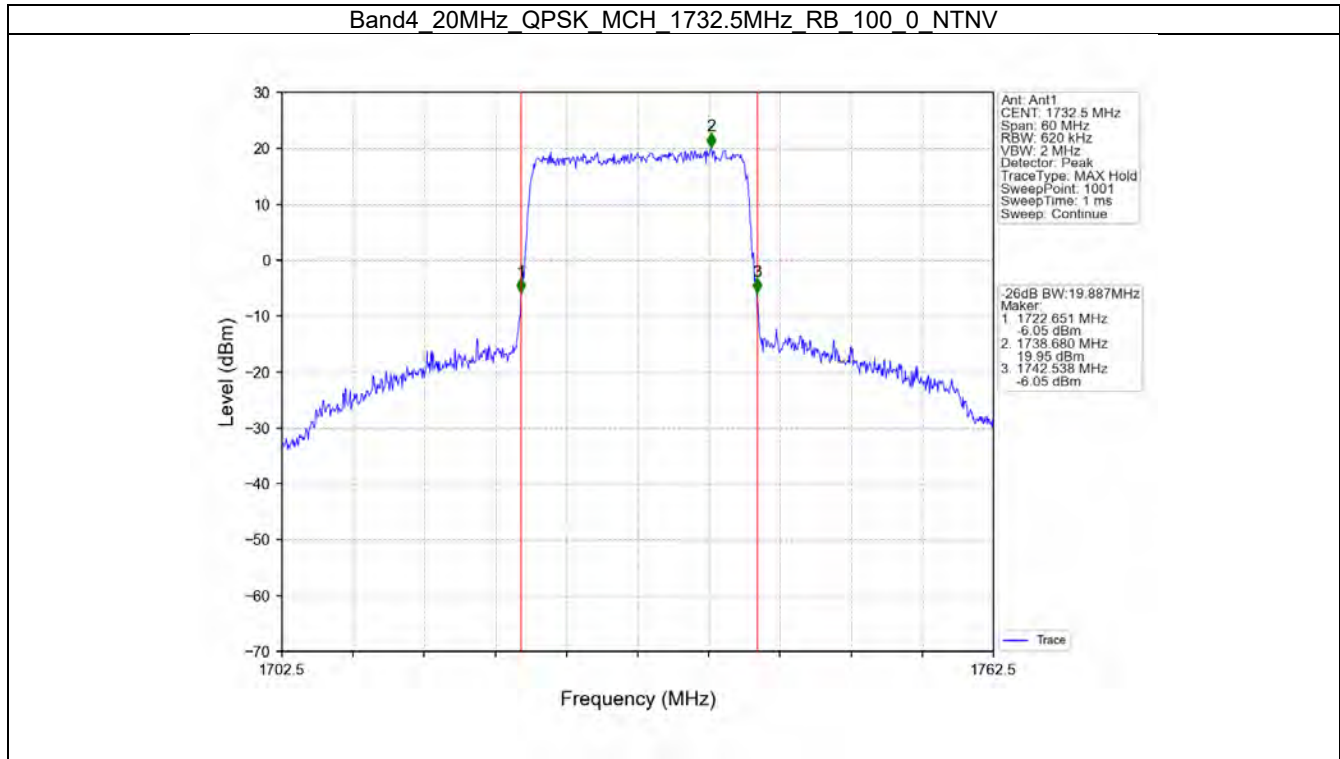
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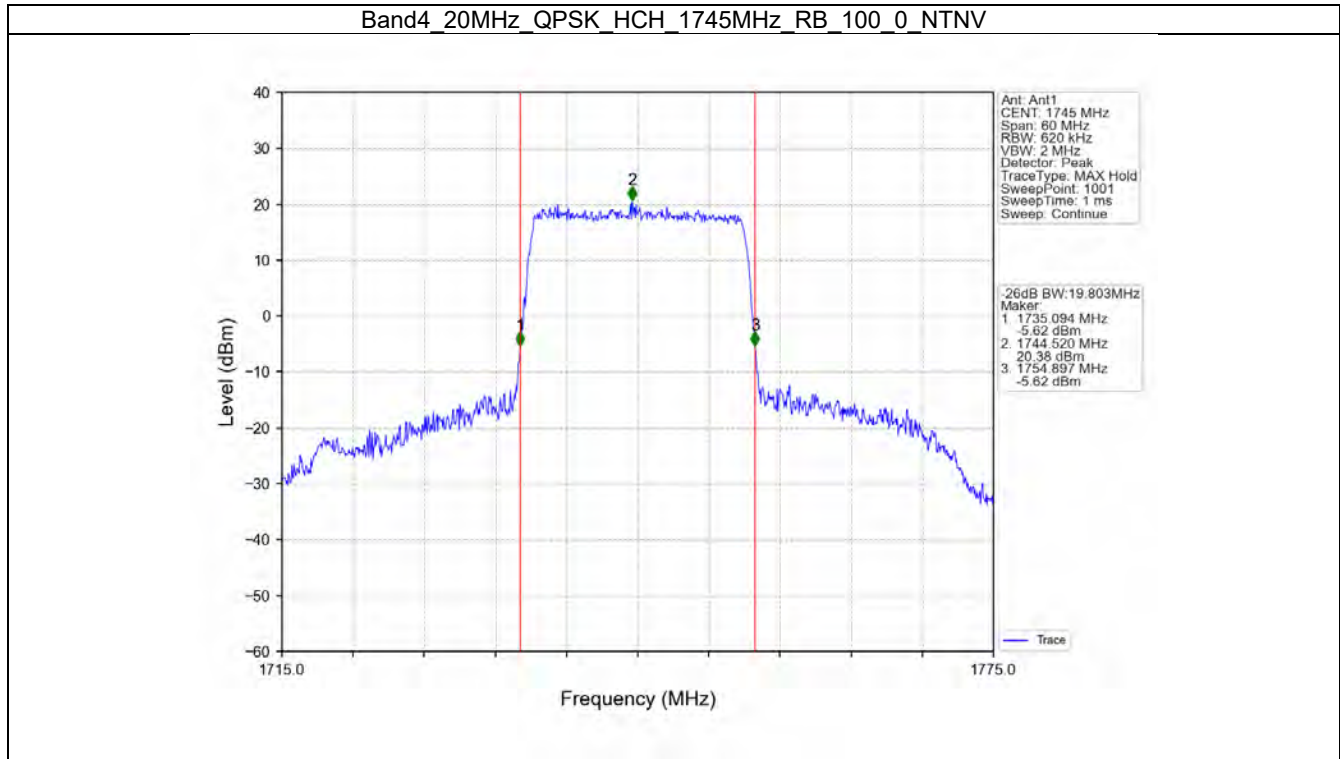


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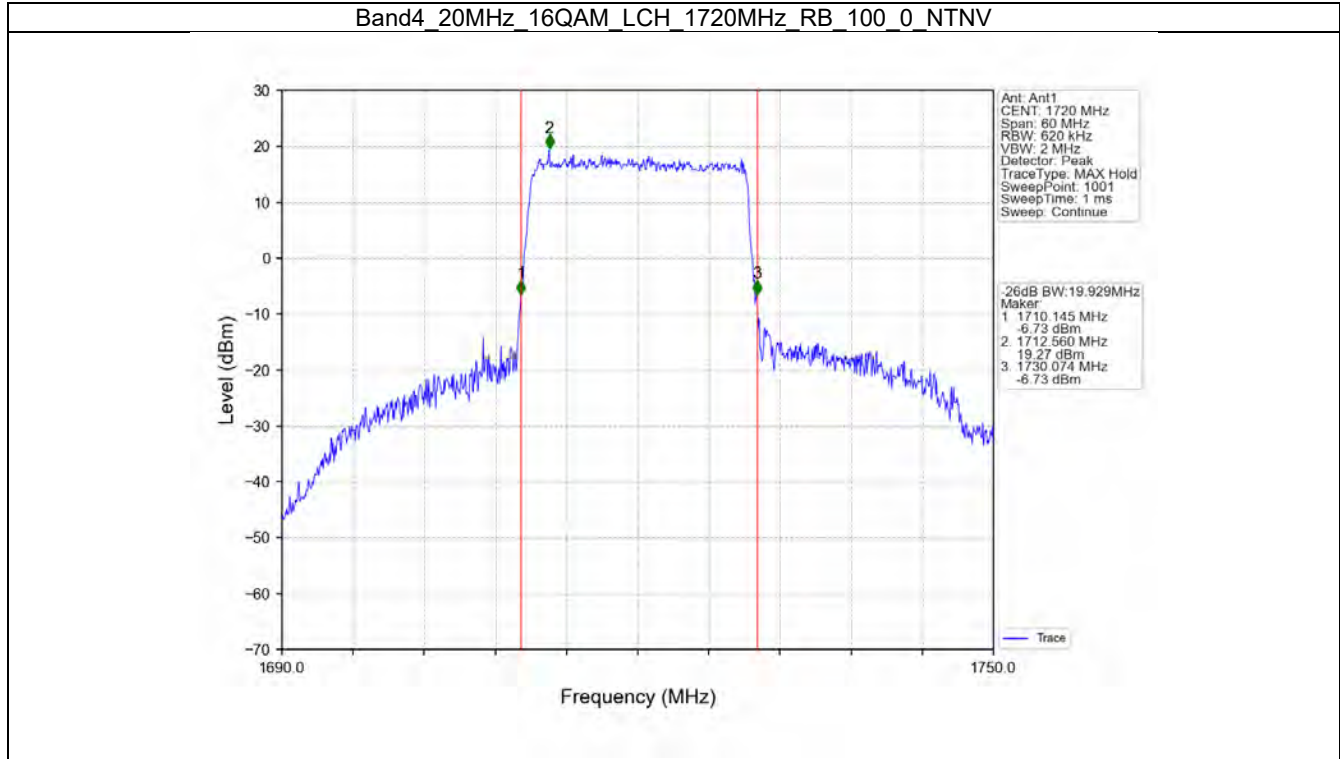
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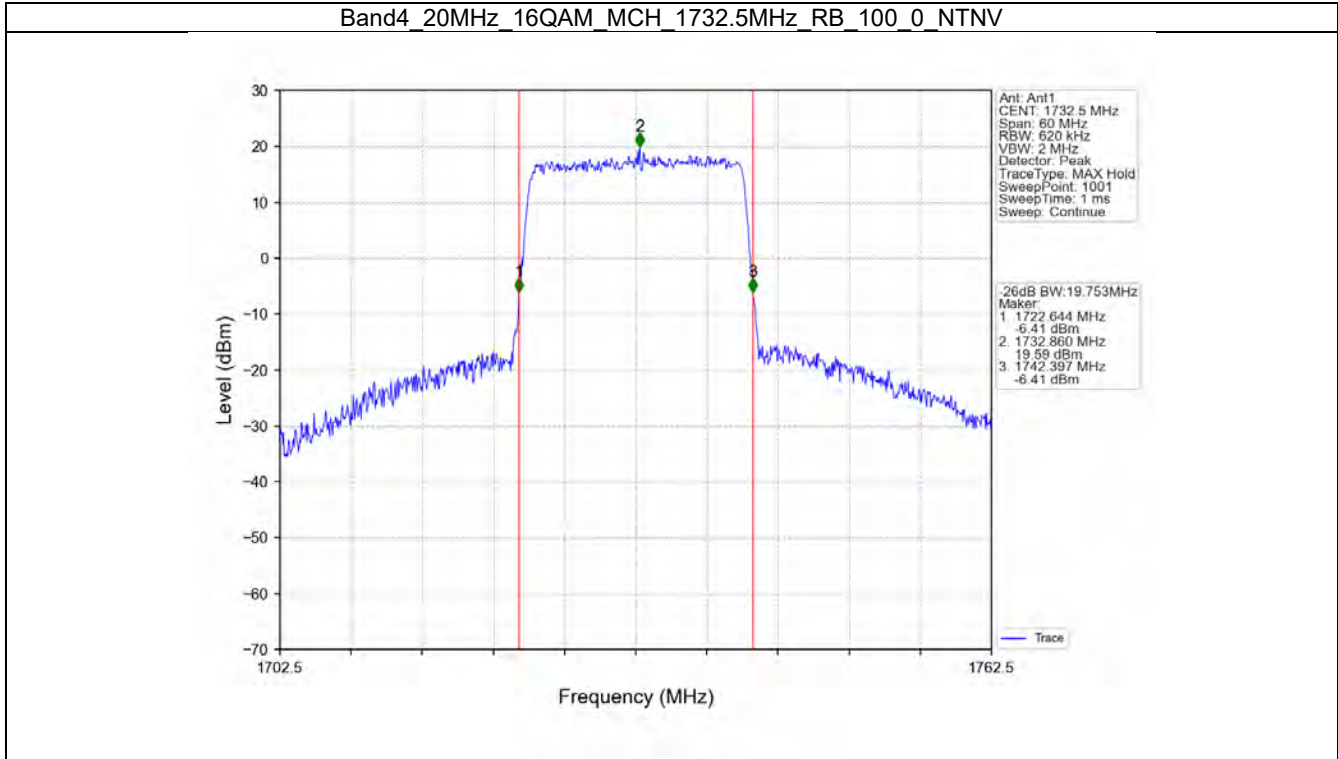
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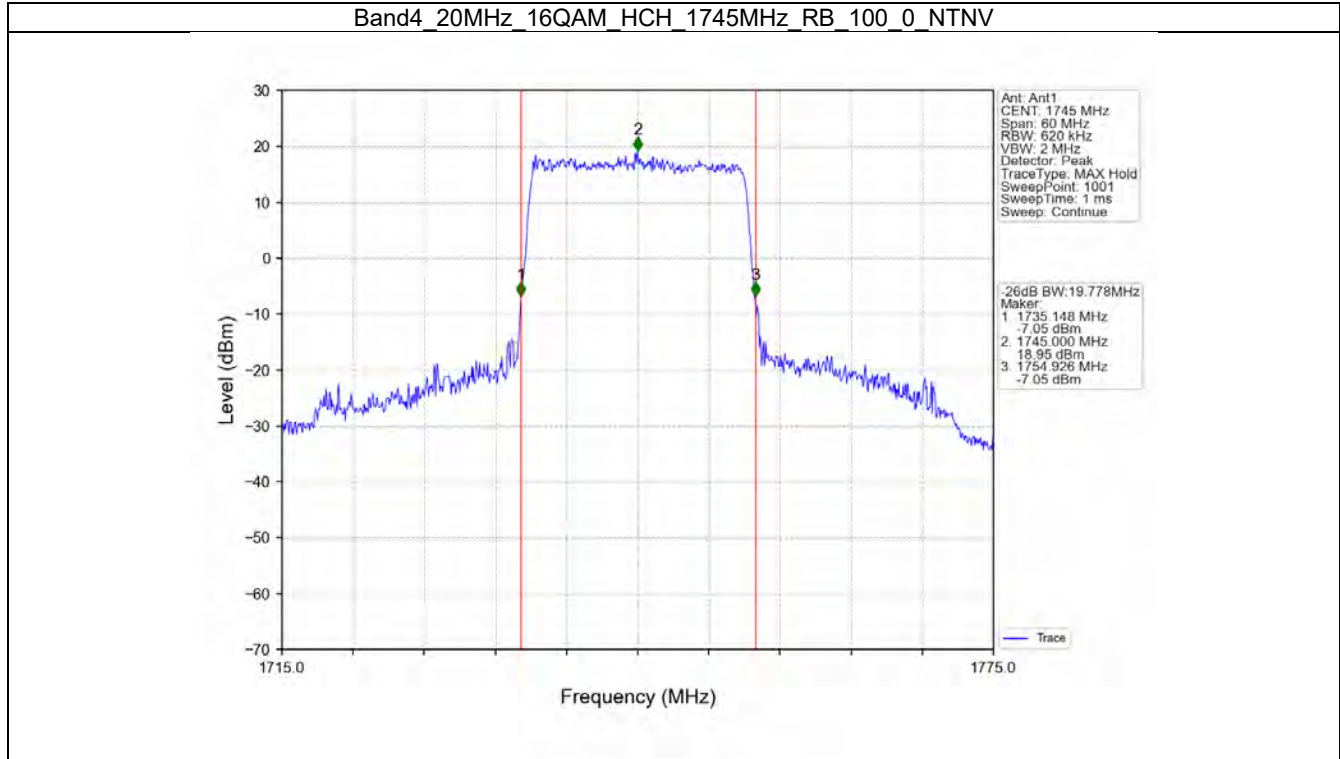
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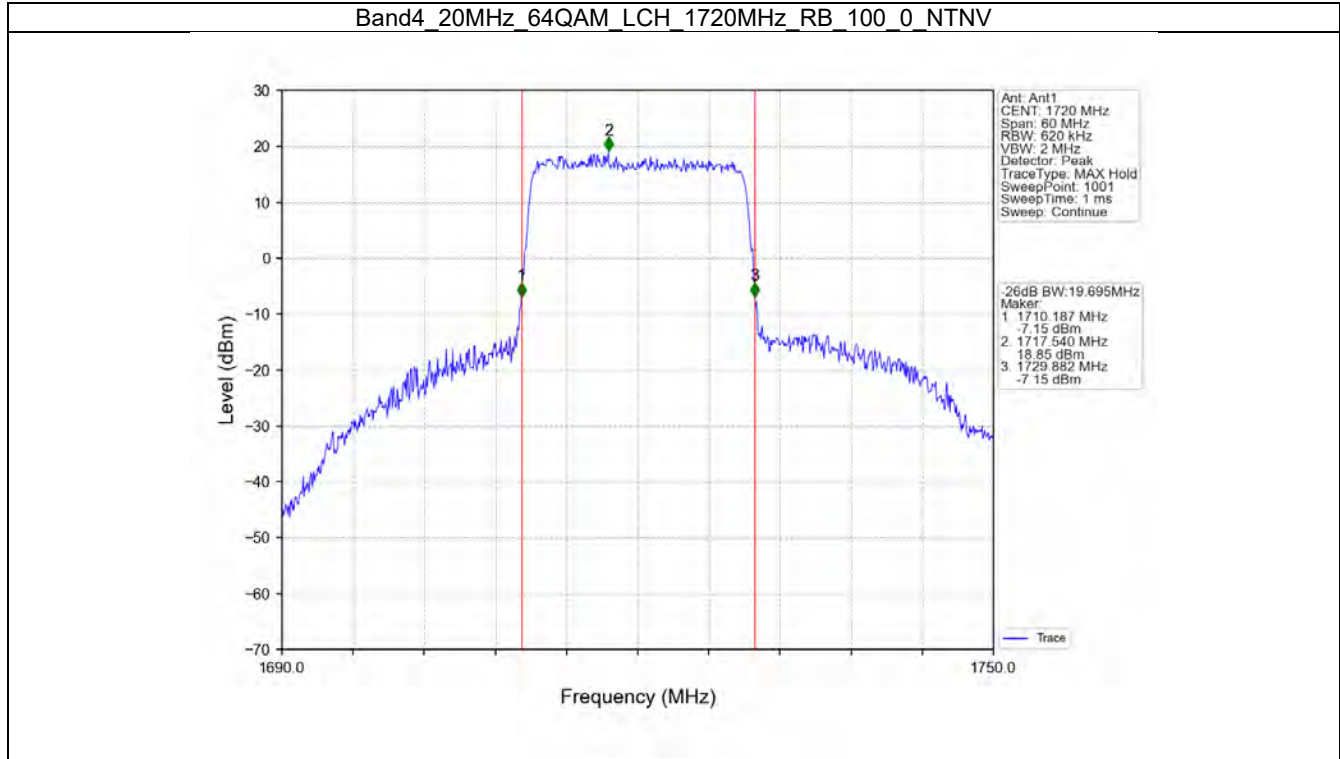
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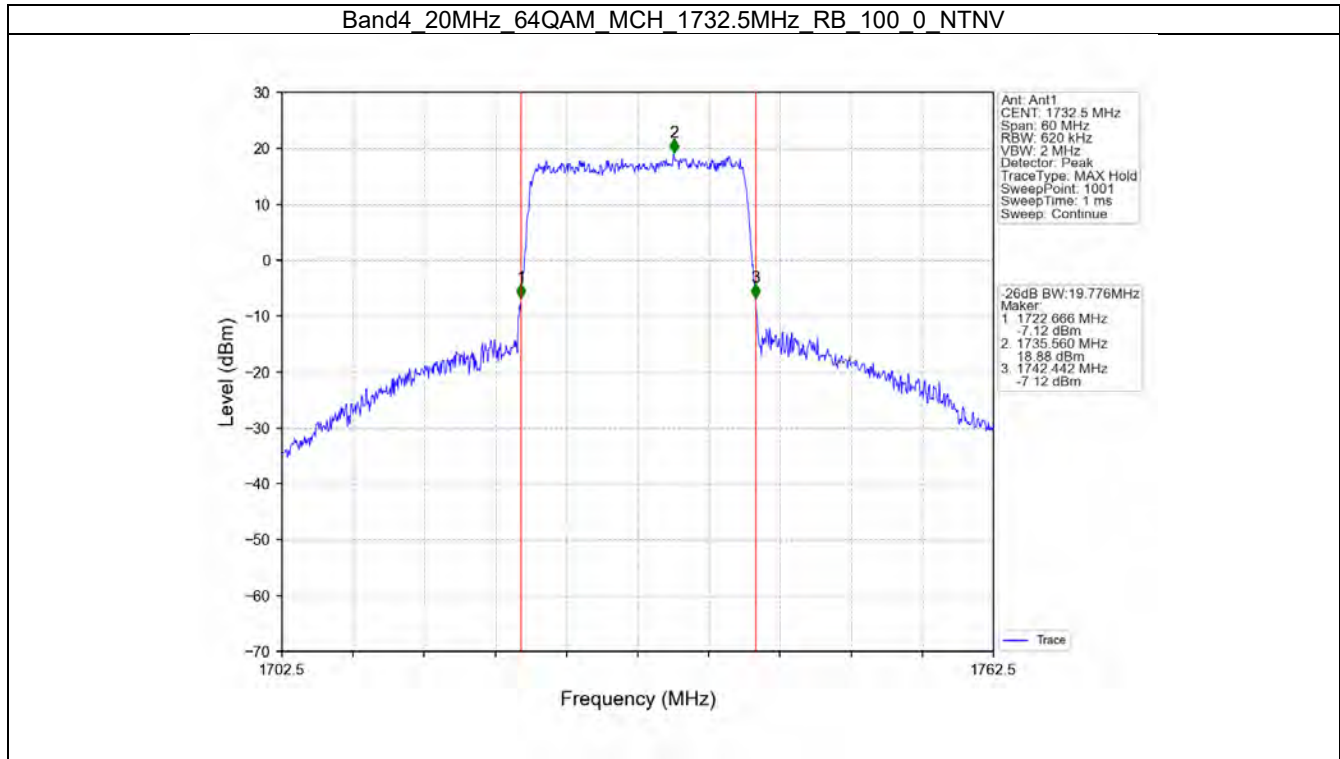


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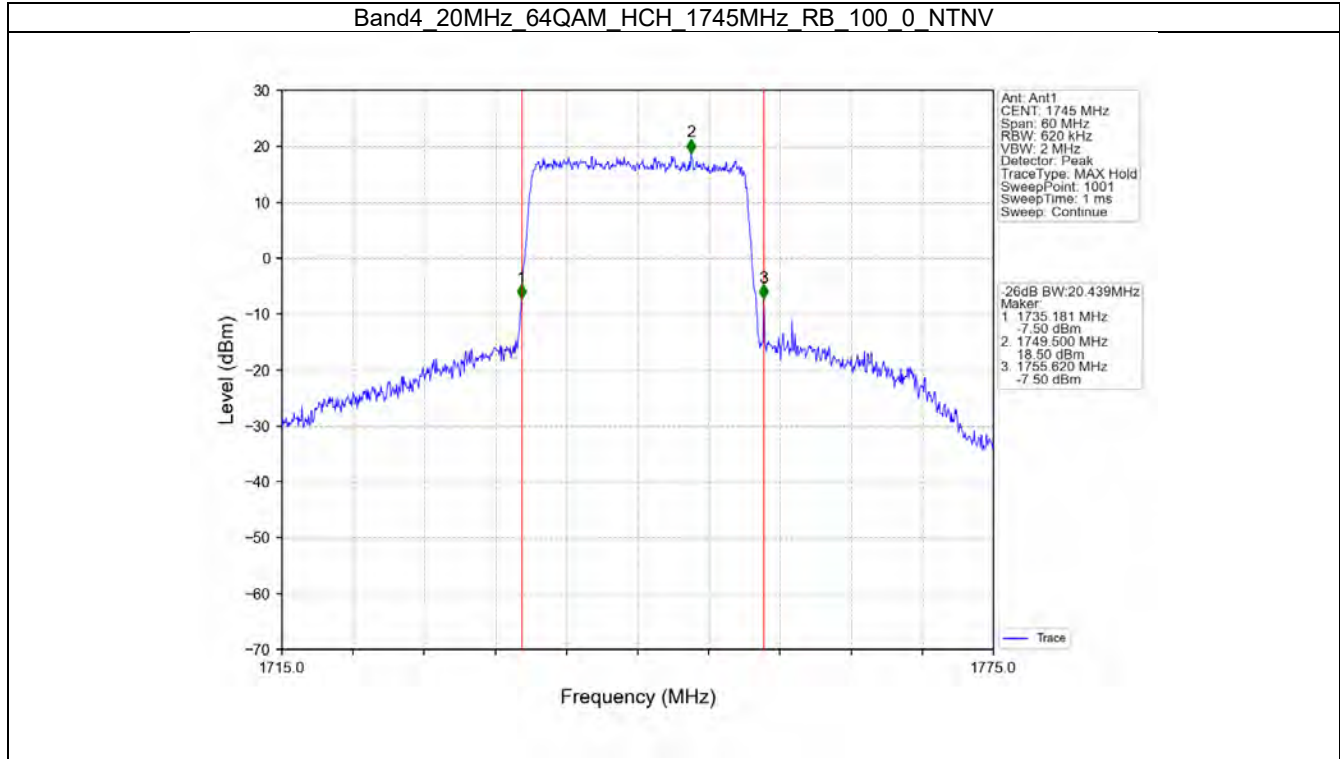
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## 4. Peak-Average Ratio

### 4.1 B4\_1.4MHz

#### 4.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	4.73	<=13	Pass
	1732.5	6	0	4.95	<=13	Pass
	1754.3	6	0	5.04	<=13	Pass
16QAM	1710.7	6	0	5.66	<=13	Pass
	1732.5	6	0	5.98	<=13	Pass
	1754.3	6	0	5.99	<=13	Pass
64QAM	1710.7	6	0	5.52	<=13	Pass
	1732.5	6	0	5.62	<=13	Pass
	1754.3	6	0	5.98	<=13	Pass



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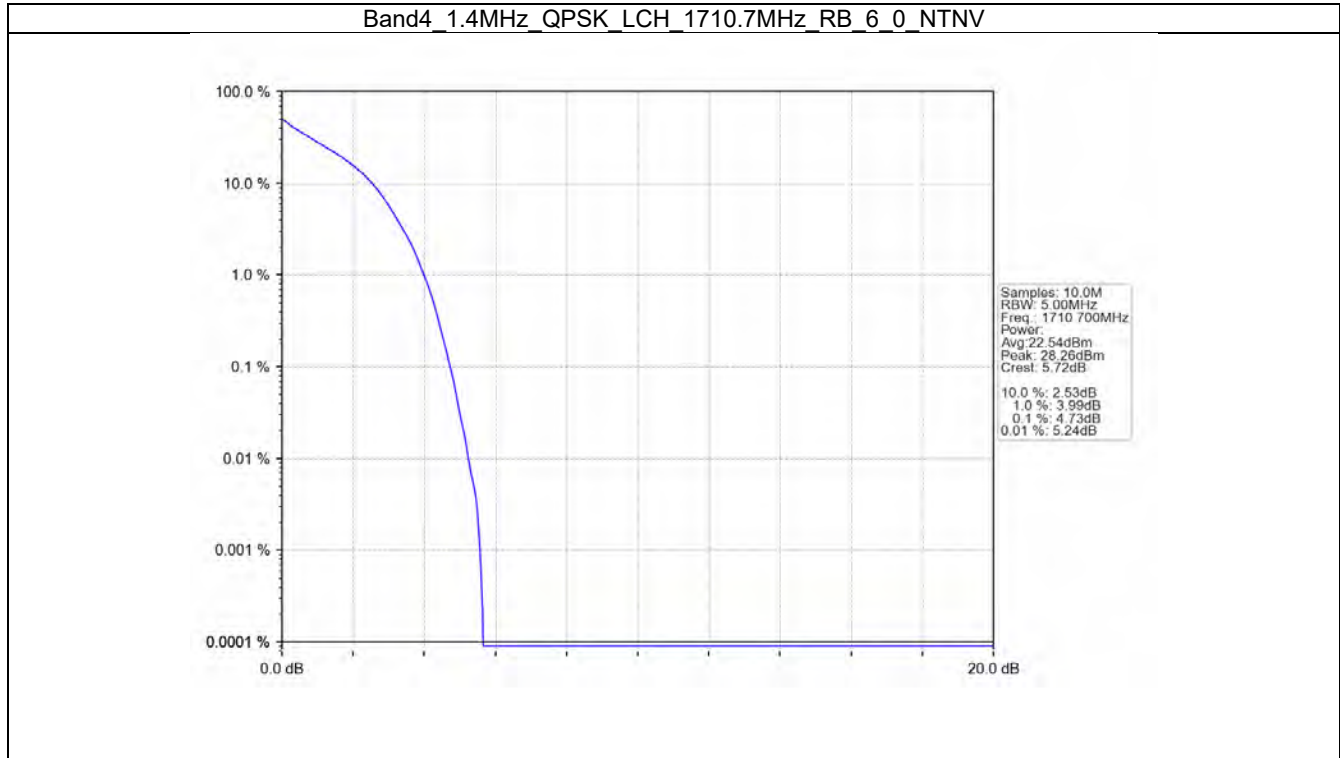




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4.1.2 Test Graph



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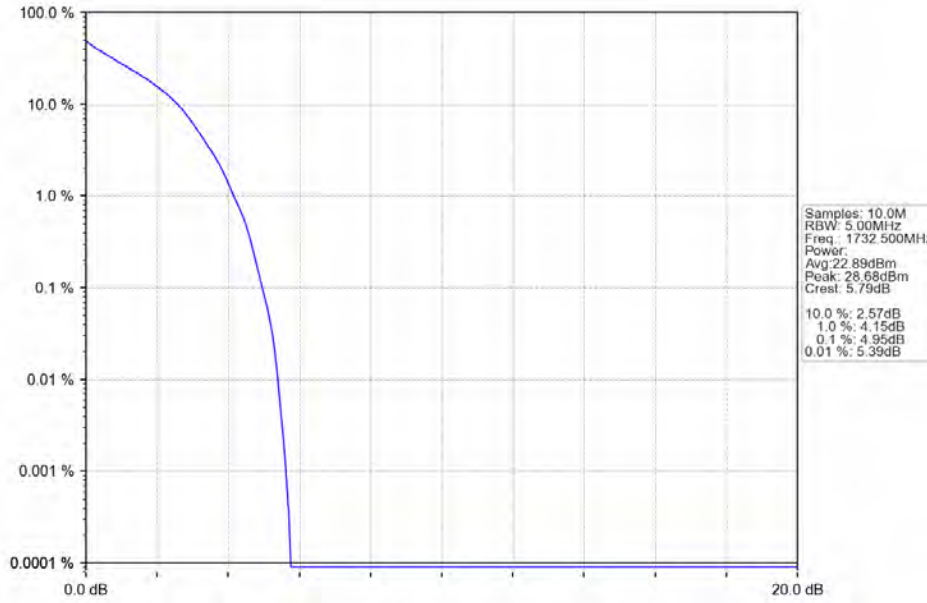
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Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



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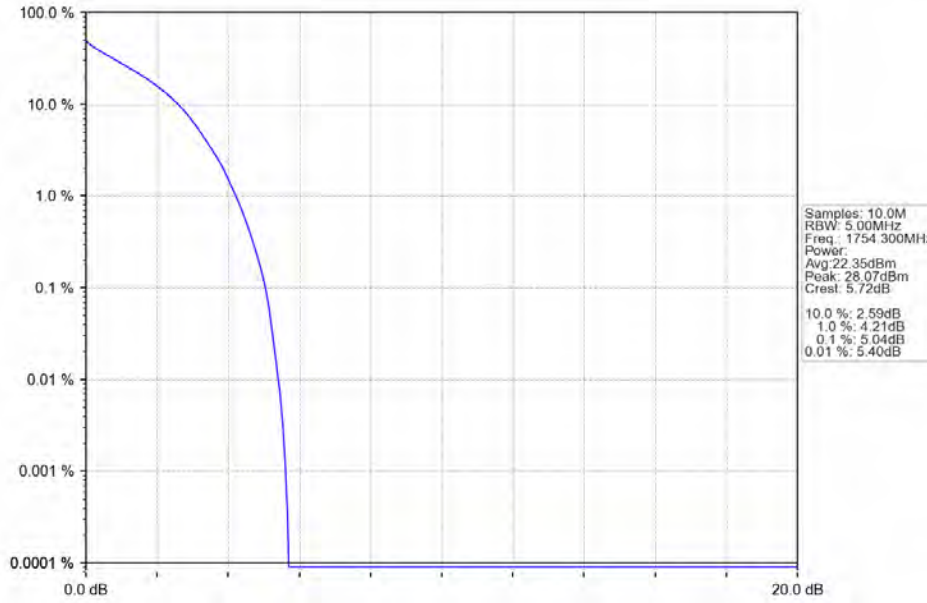
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Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTNV



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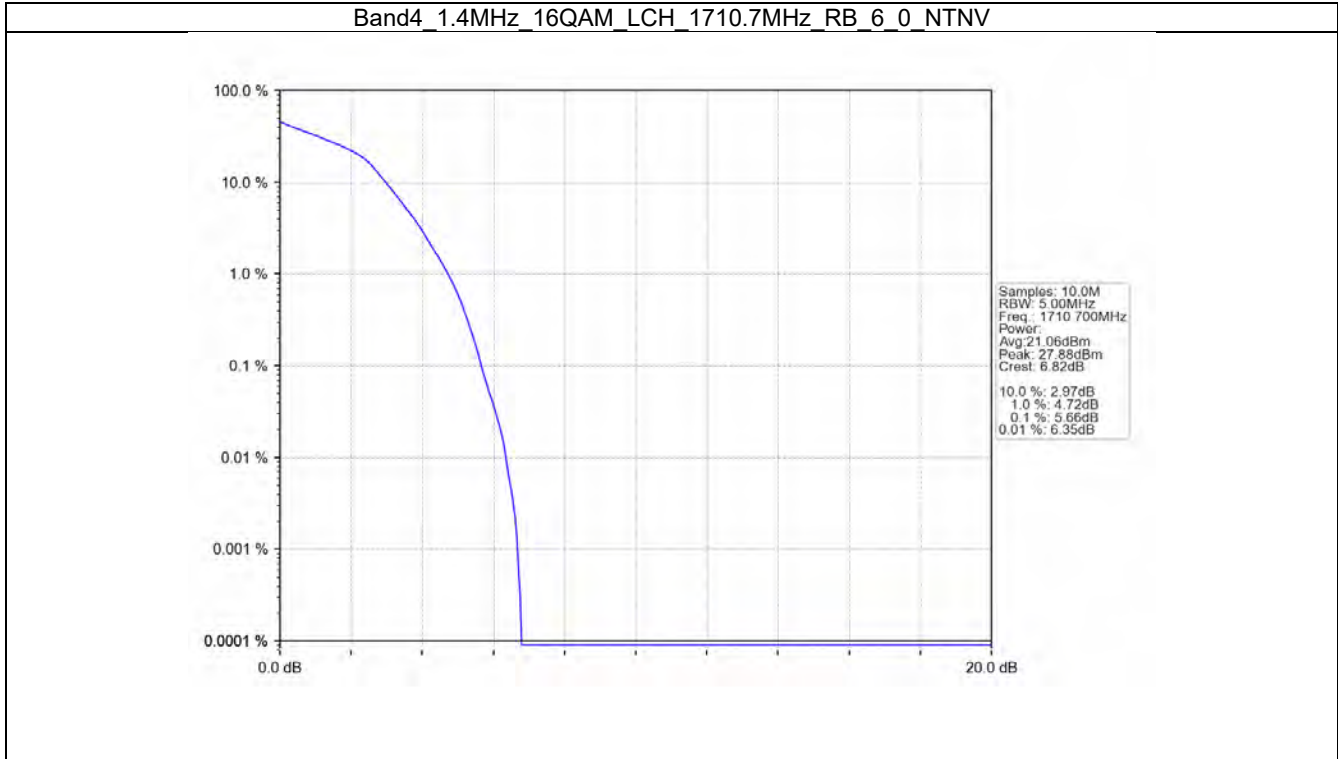
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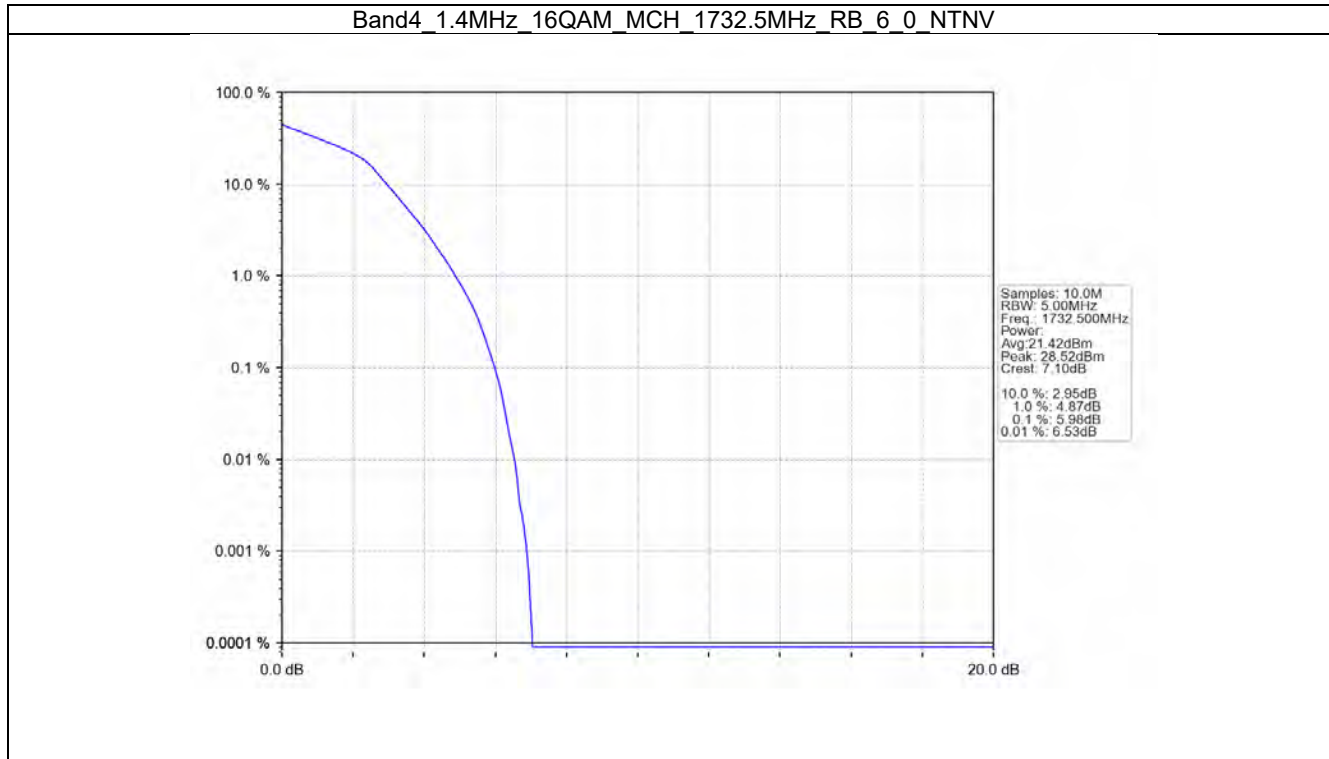


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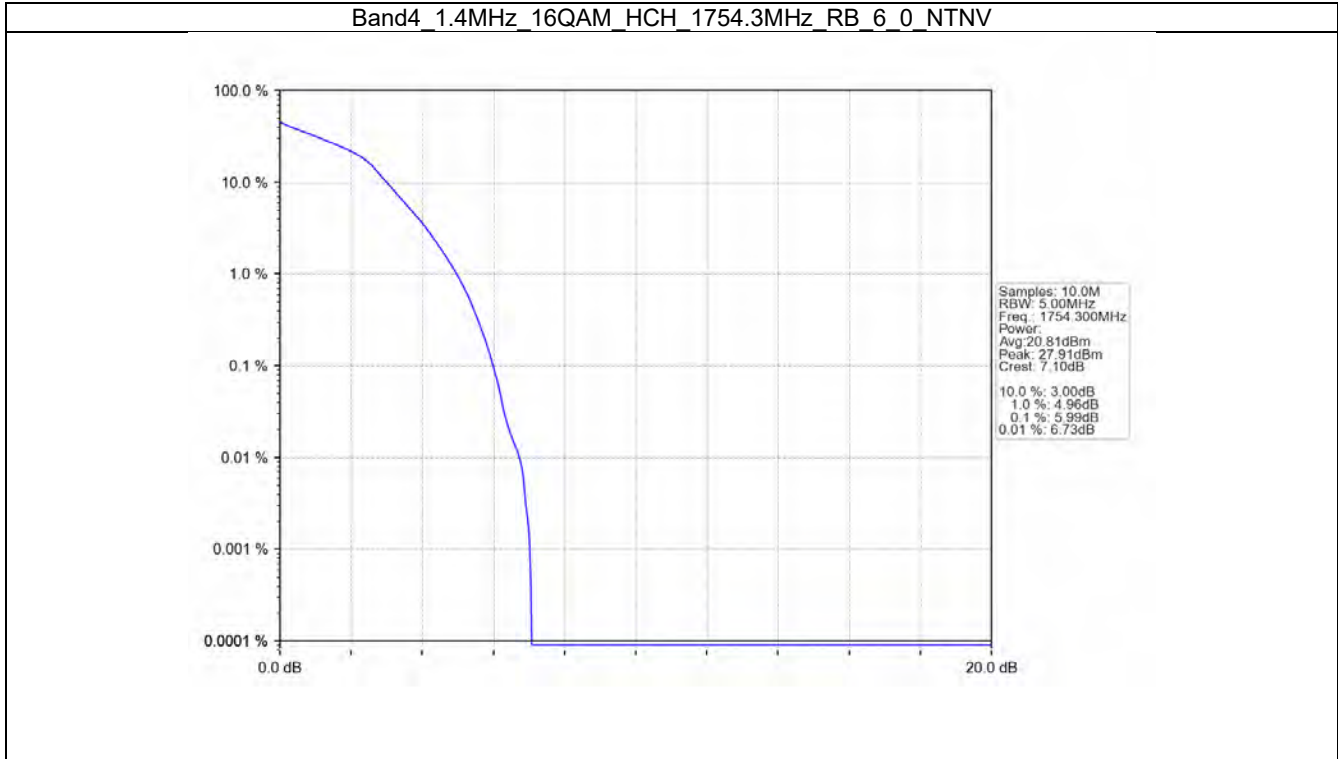
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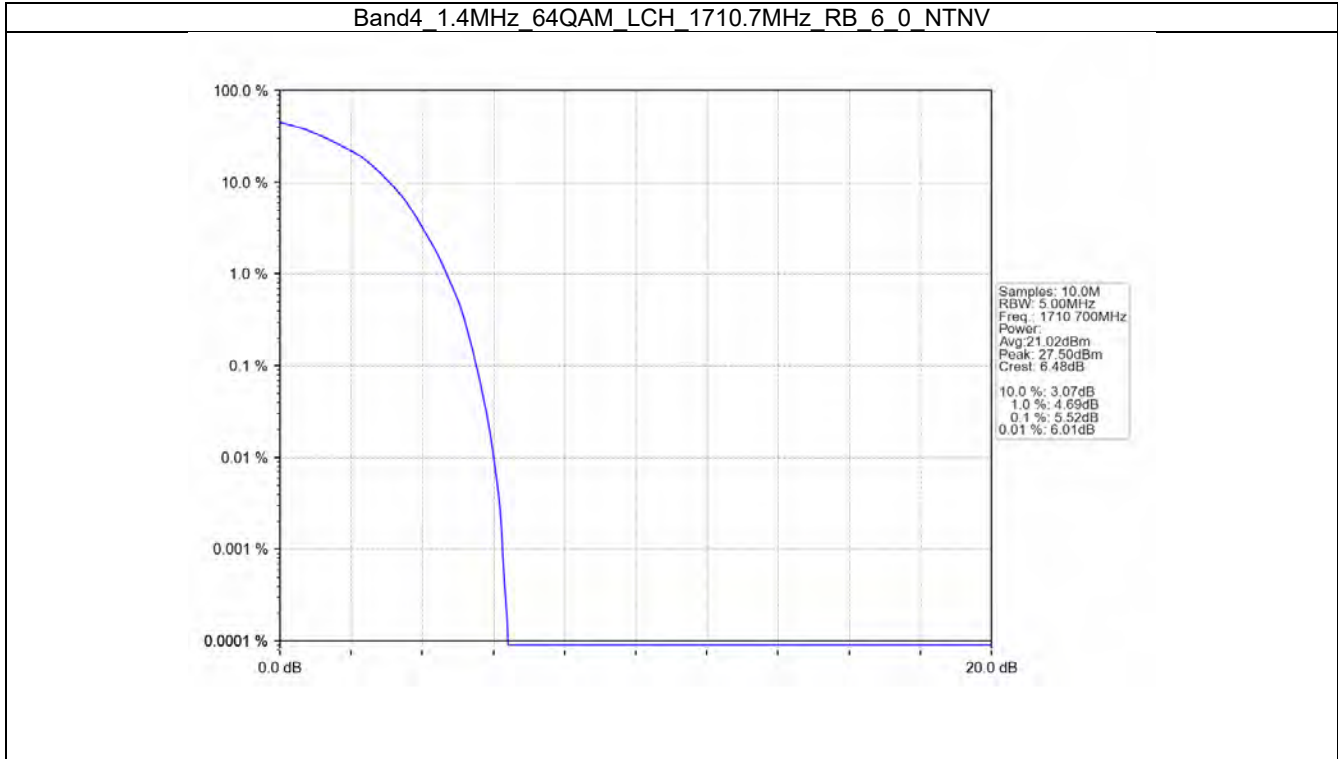
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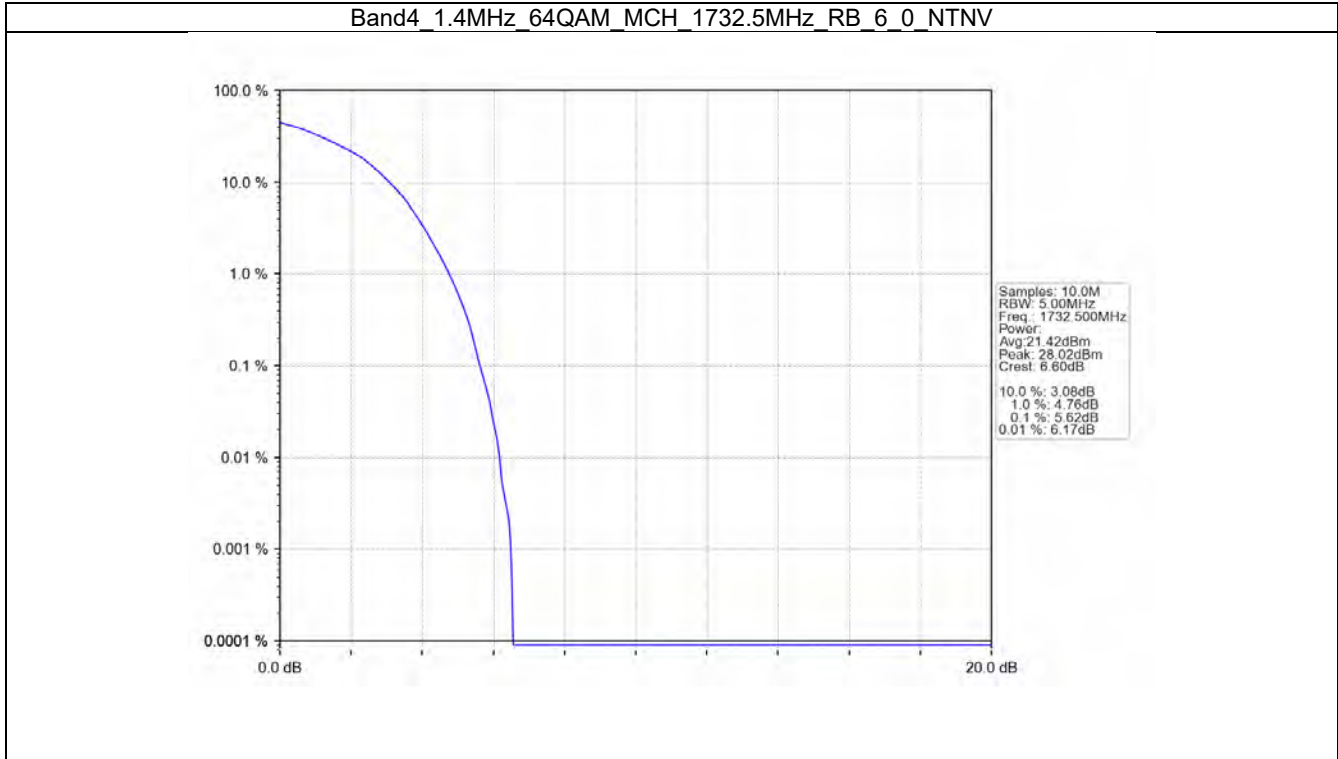
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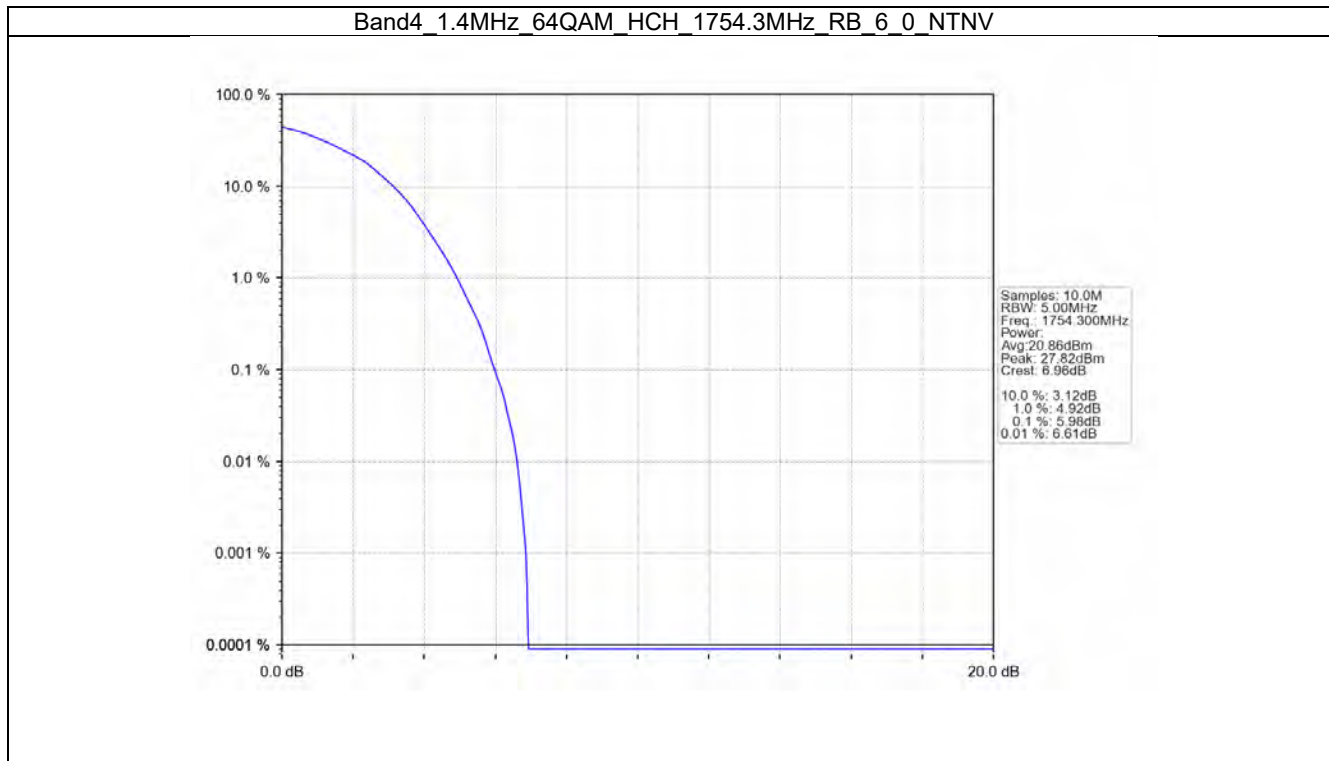


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## 4.2 B4\_3MHz

### 4.2.1 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	5.01	<=13	Pass
	1732.5	15	0	5.26	<=13	Pass
	1753.5	15	0	5.25	<=13	Pass
16QAM	1711.5	15	0	5.91	<=13	Pass
	1732.5	15	0	6.17	<=13	Pass
	1753.5	15	0	6.19	<=13	Pass
64QAM	1711.5	15	0	5.80	<=13	Pass
	1732.5	15	0	6.03	<=13	Pass
	1753.5	15	0	6.04	<=13	Pass



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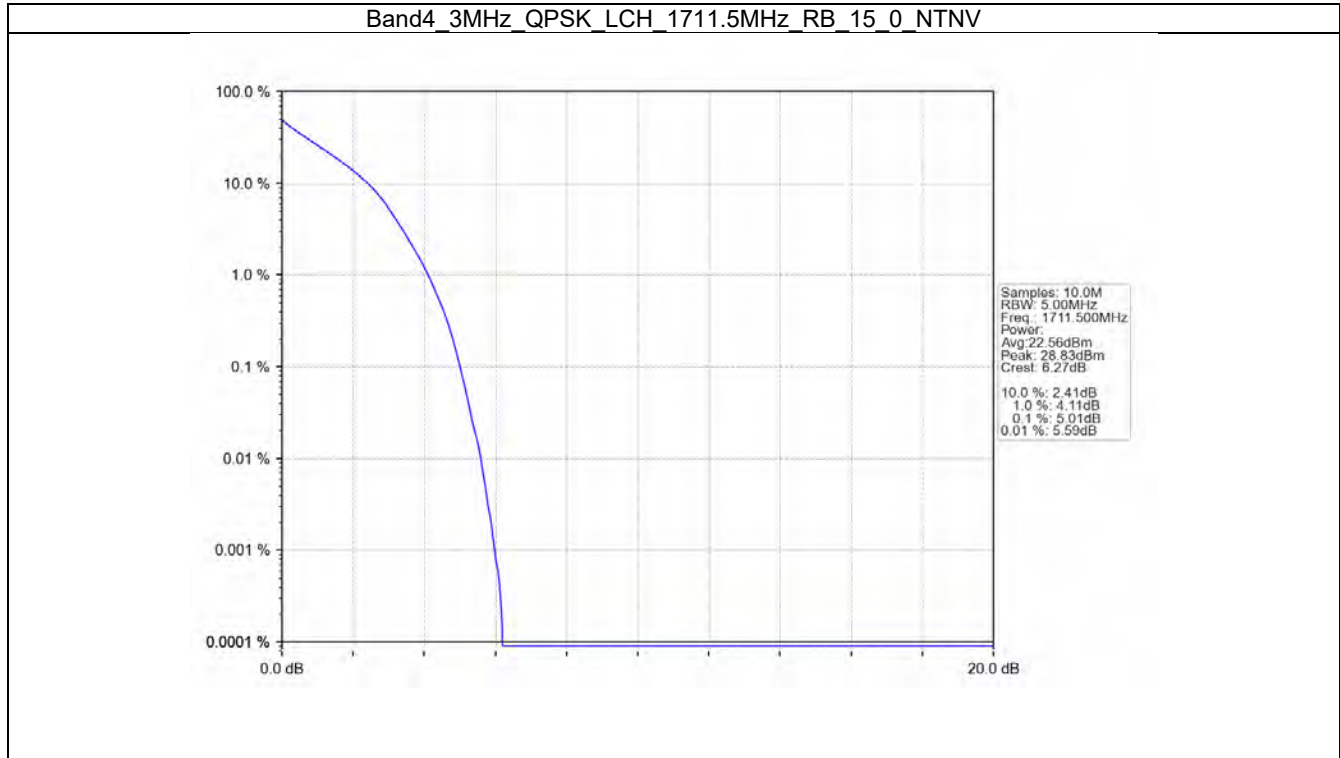
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4.2.2 Test Graph



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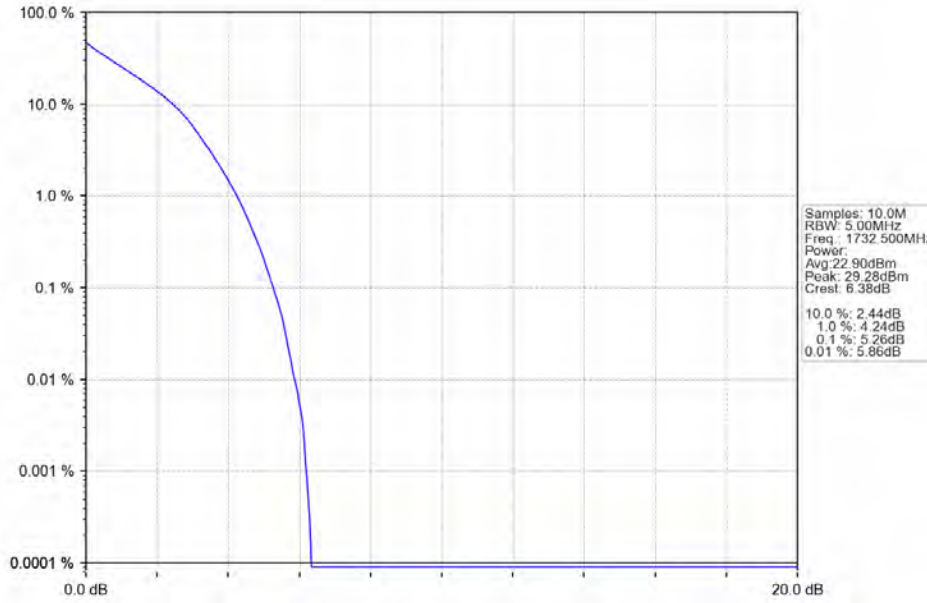
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Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



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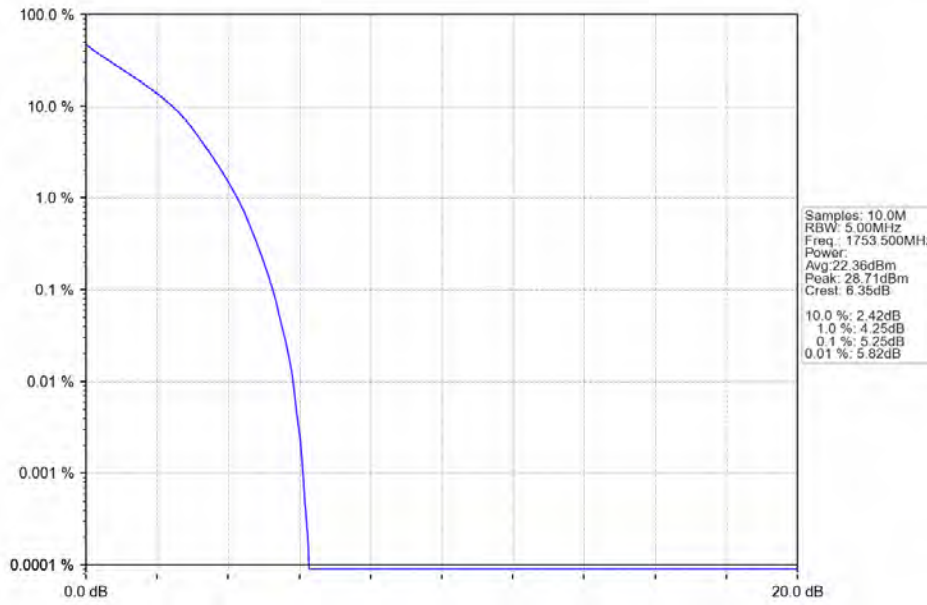
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Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



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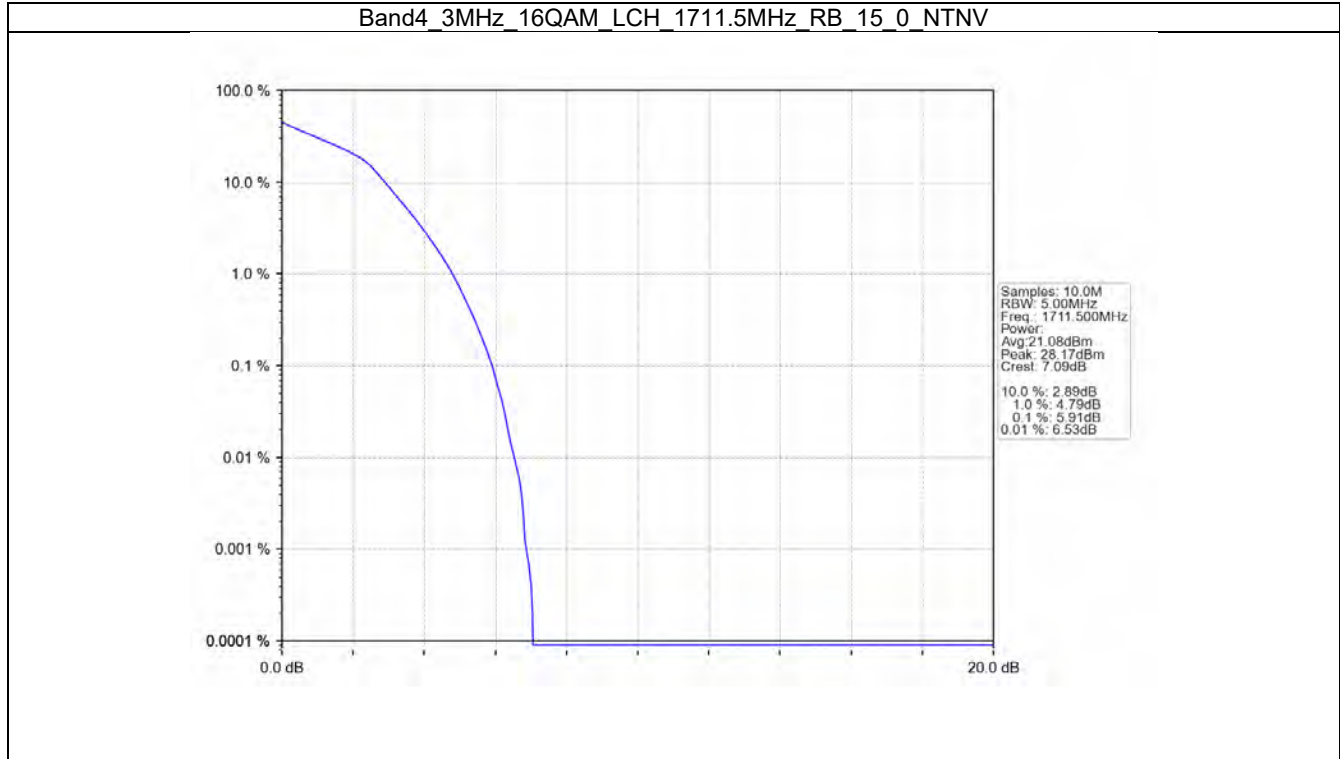
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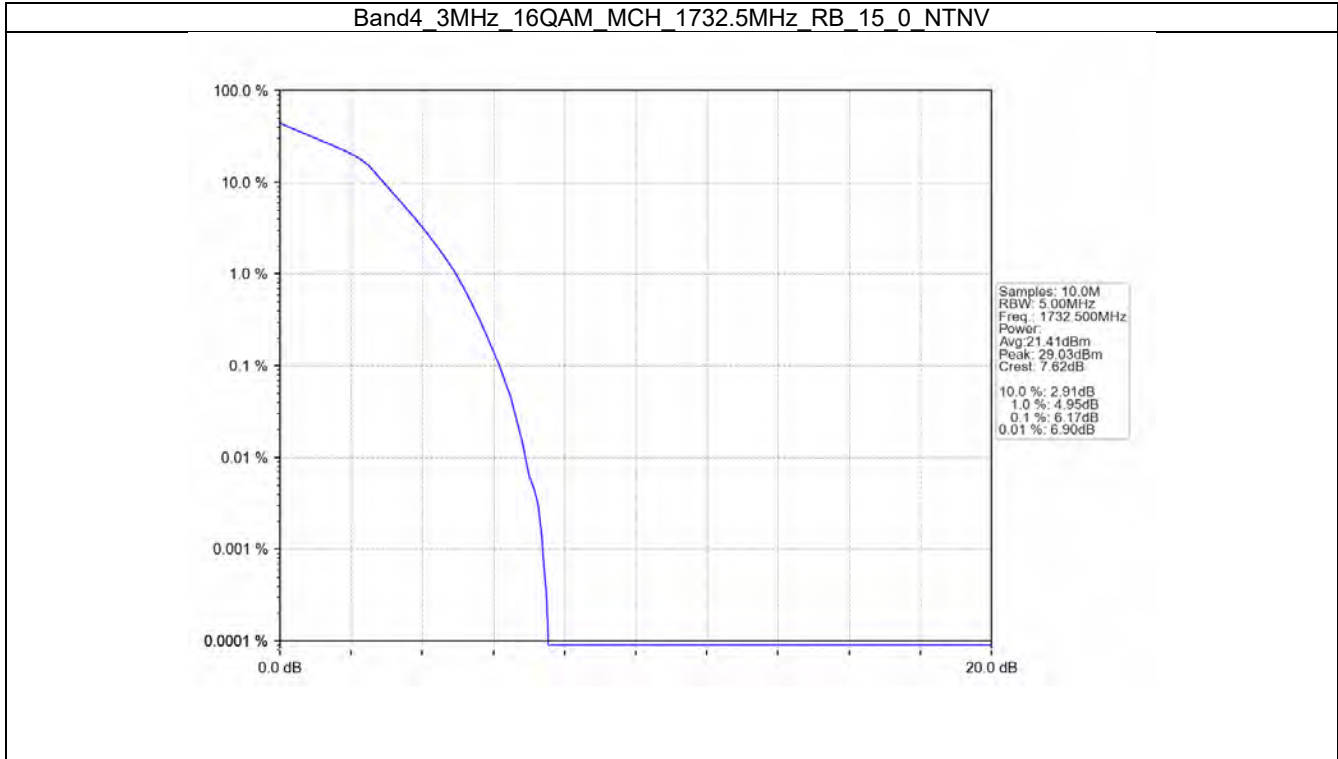
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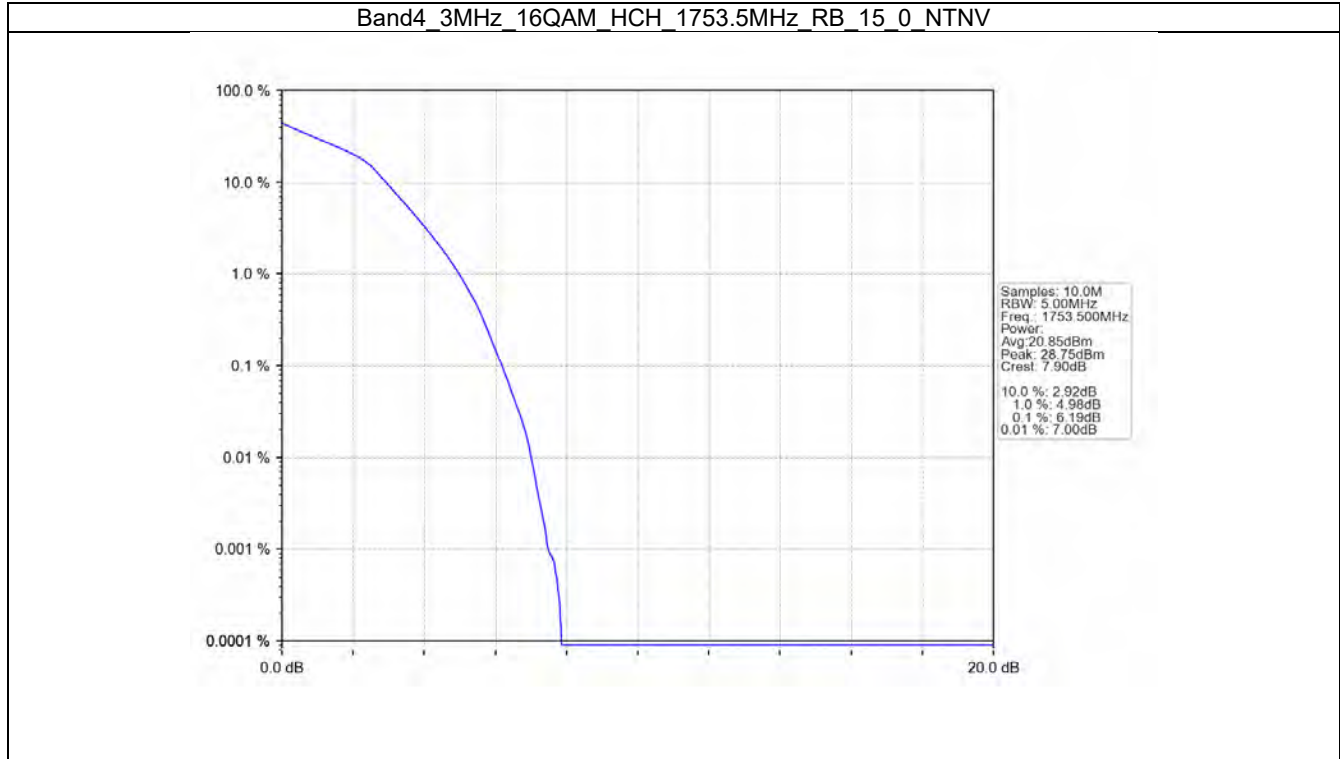
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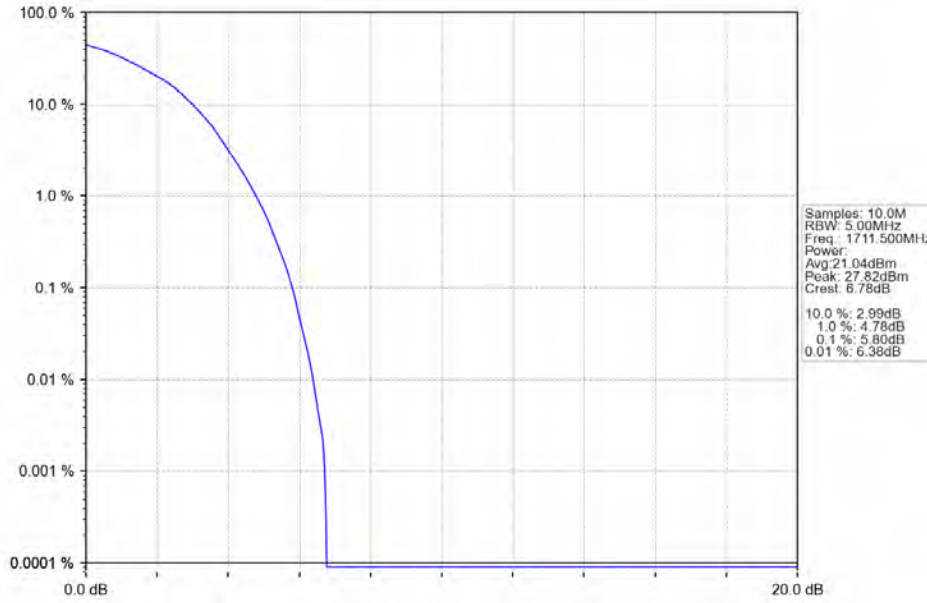




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Band4\_3MHz\_64QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



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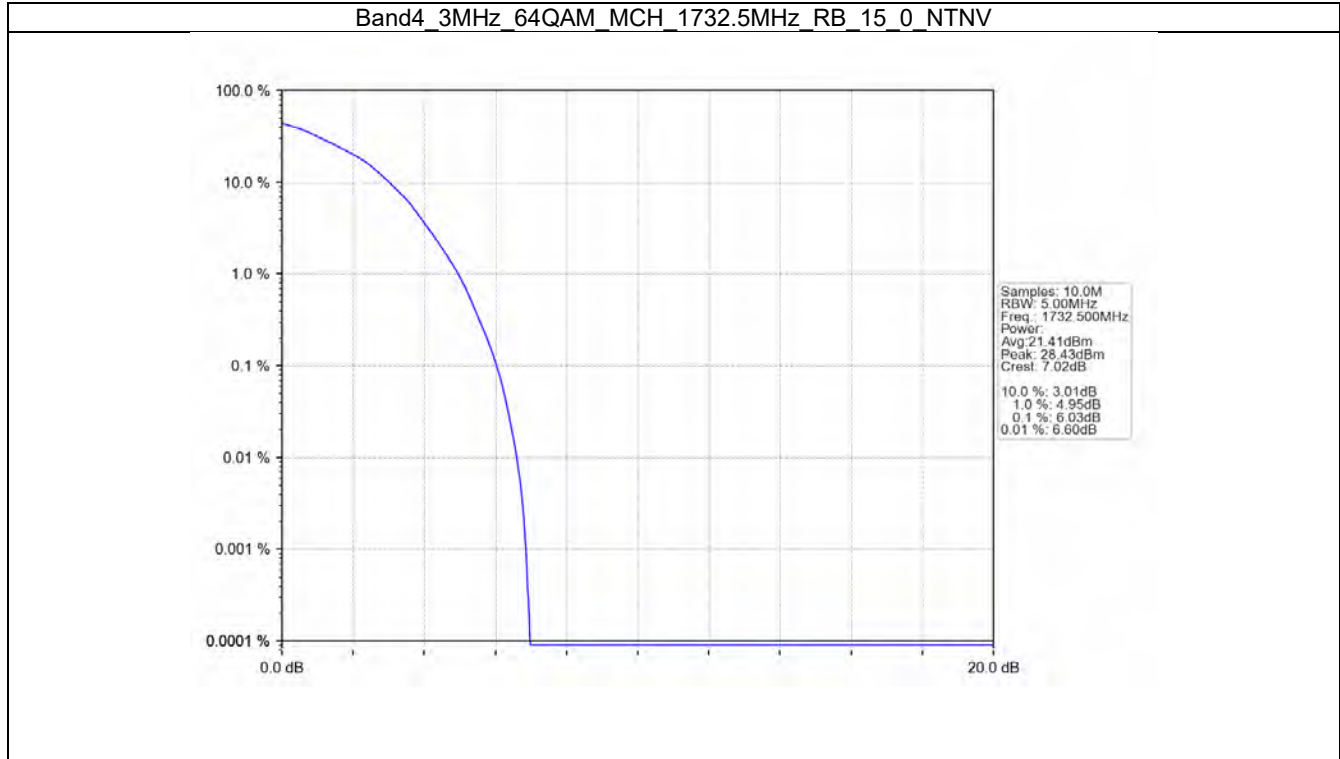
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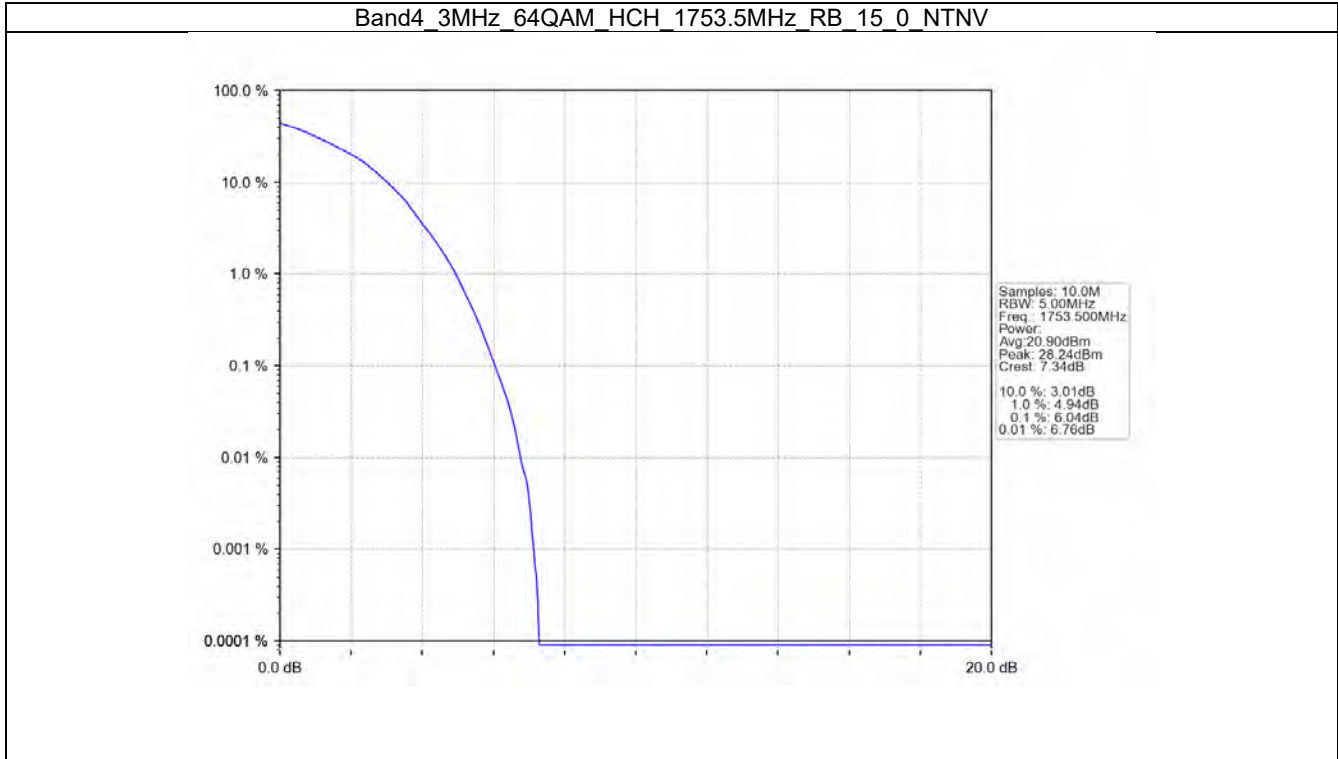
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## 4.3 B4\_5MHz

### 4.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.28	<=13	Pass
	1732.5	25	0	5.46	<=13	Pass
	1752.5	25	0	5.45	<=13	Pass
16QAM	1712.5	25	0	6.03	<=13	Pass
	1732.5	25	0	6.21	<=13	Pass
	1752.5	25	0	6.25	<=13	Pass
64QAM	1712.5	25	0	5.96	<=13	Pass
	1732.5	25	0	6.17	<=13	Pass
	1752.5	25	0	6.24	<=13	Pass



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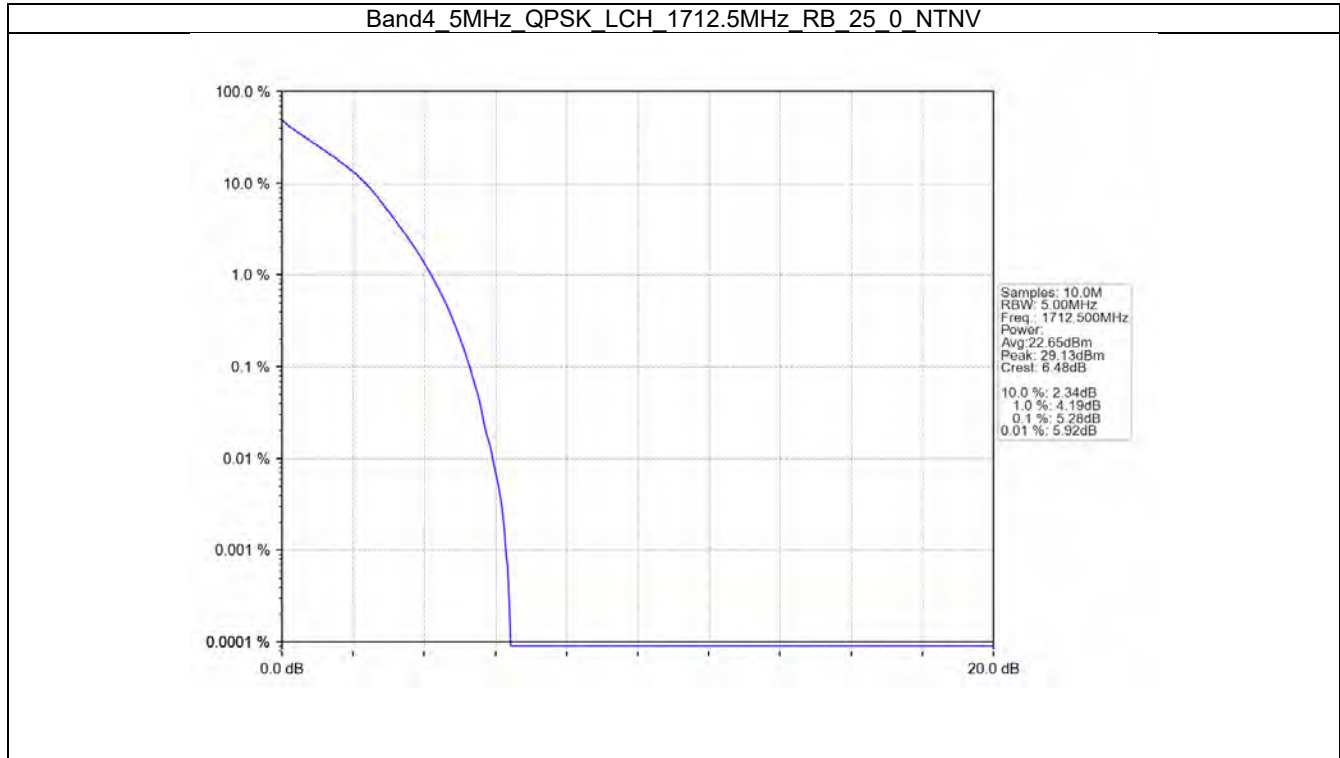
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4.3.2 Test Graph



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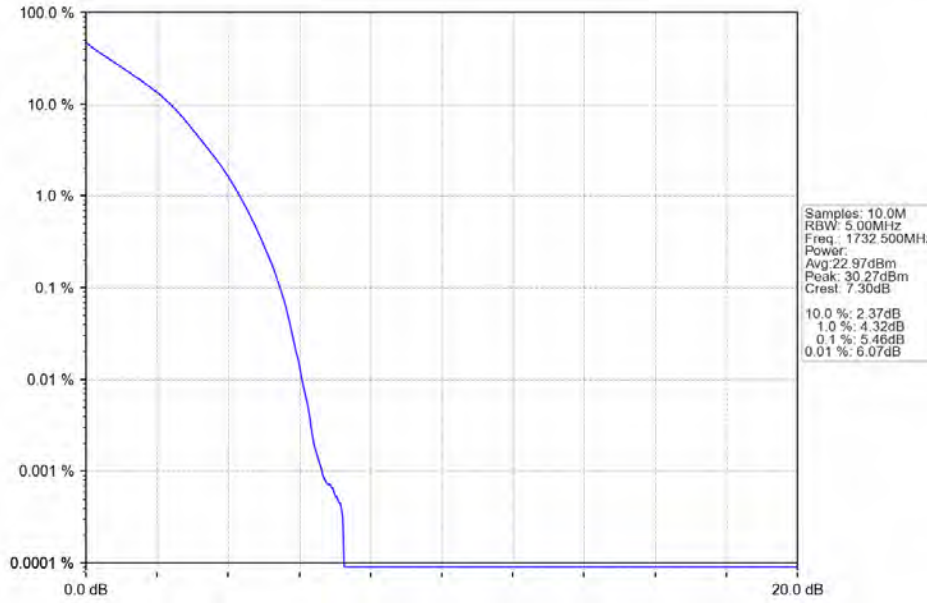
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Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



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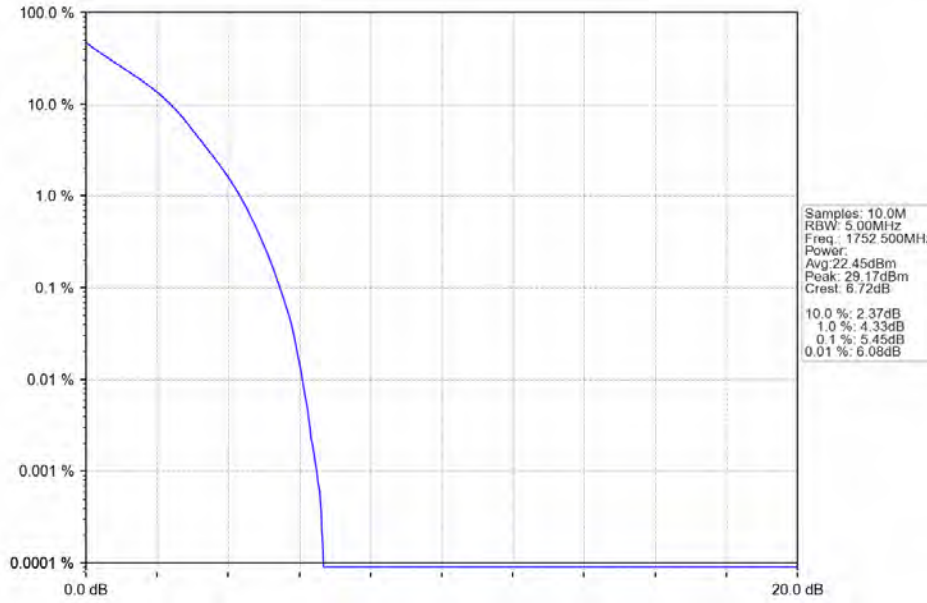
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Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



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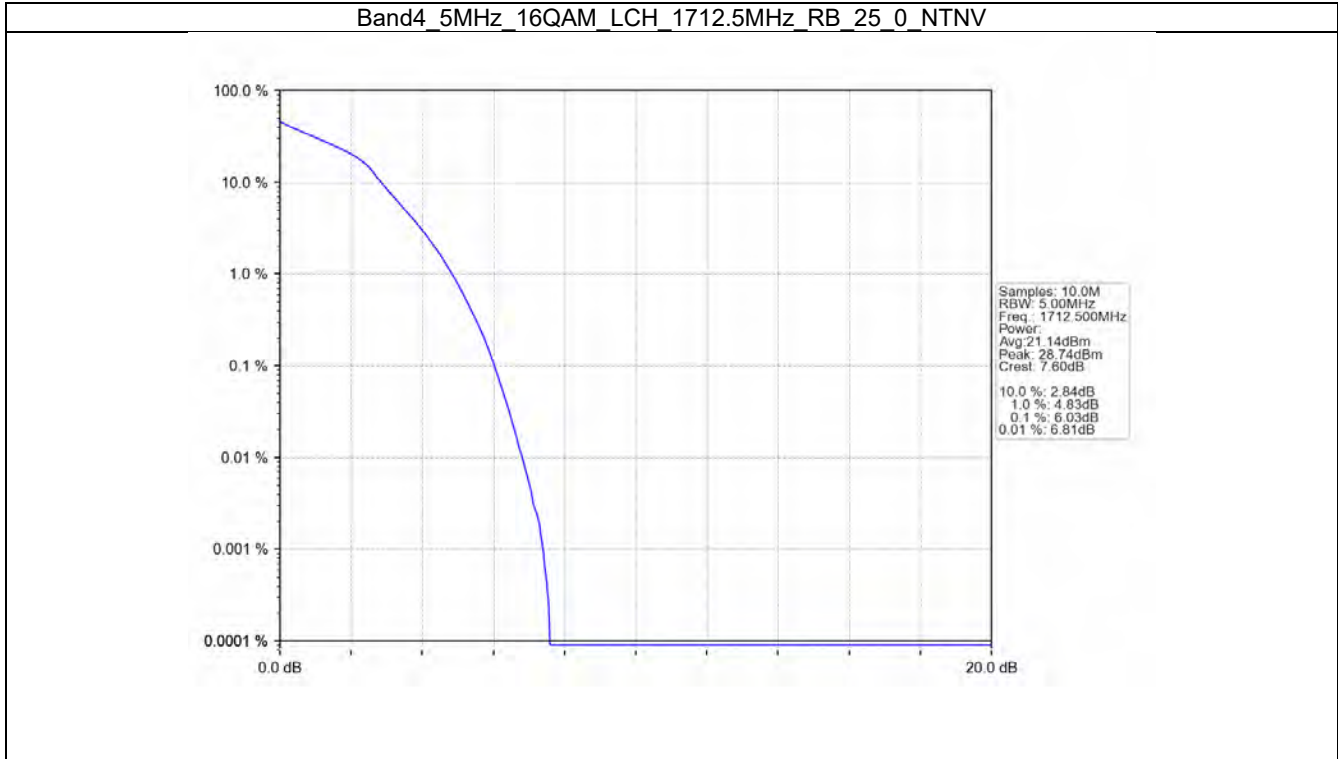
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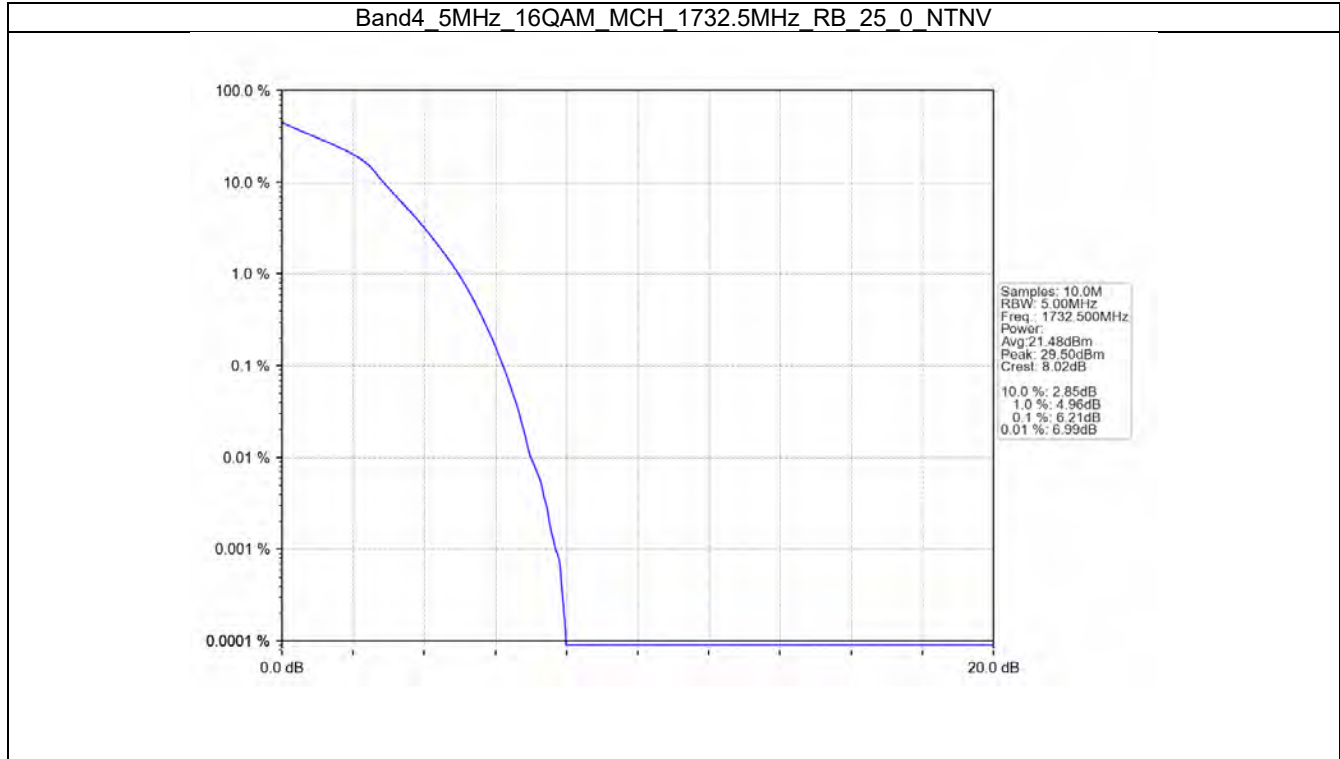
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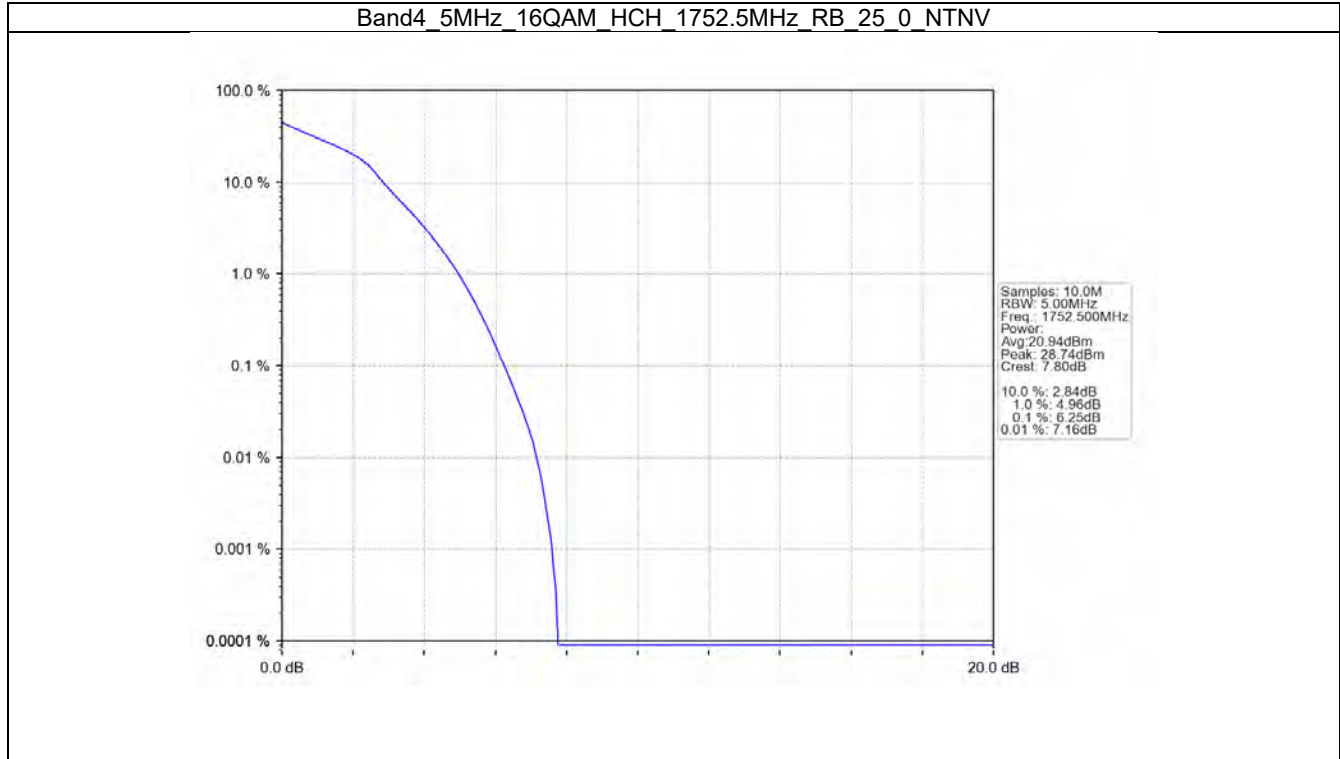
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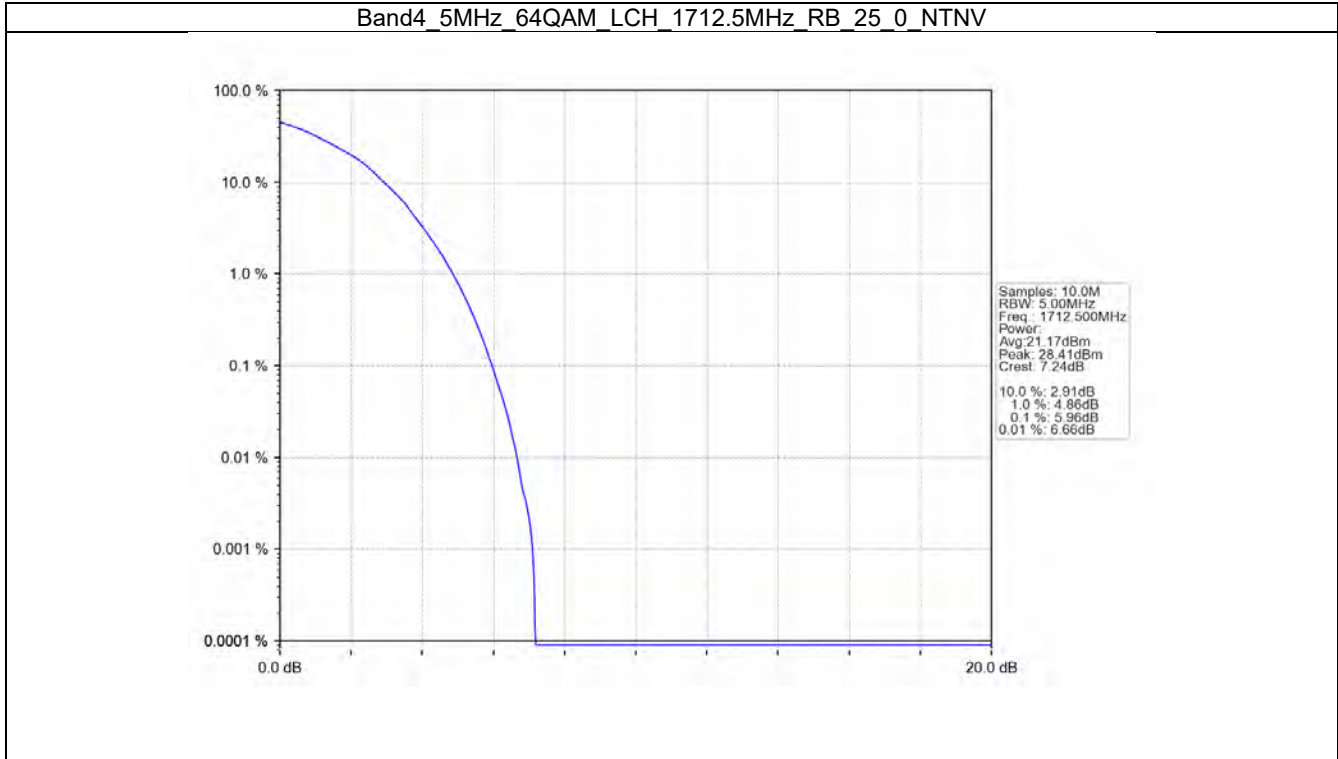
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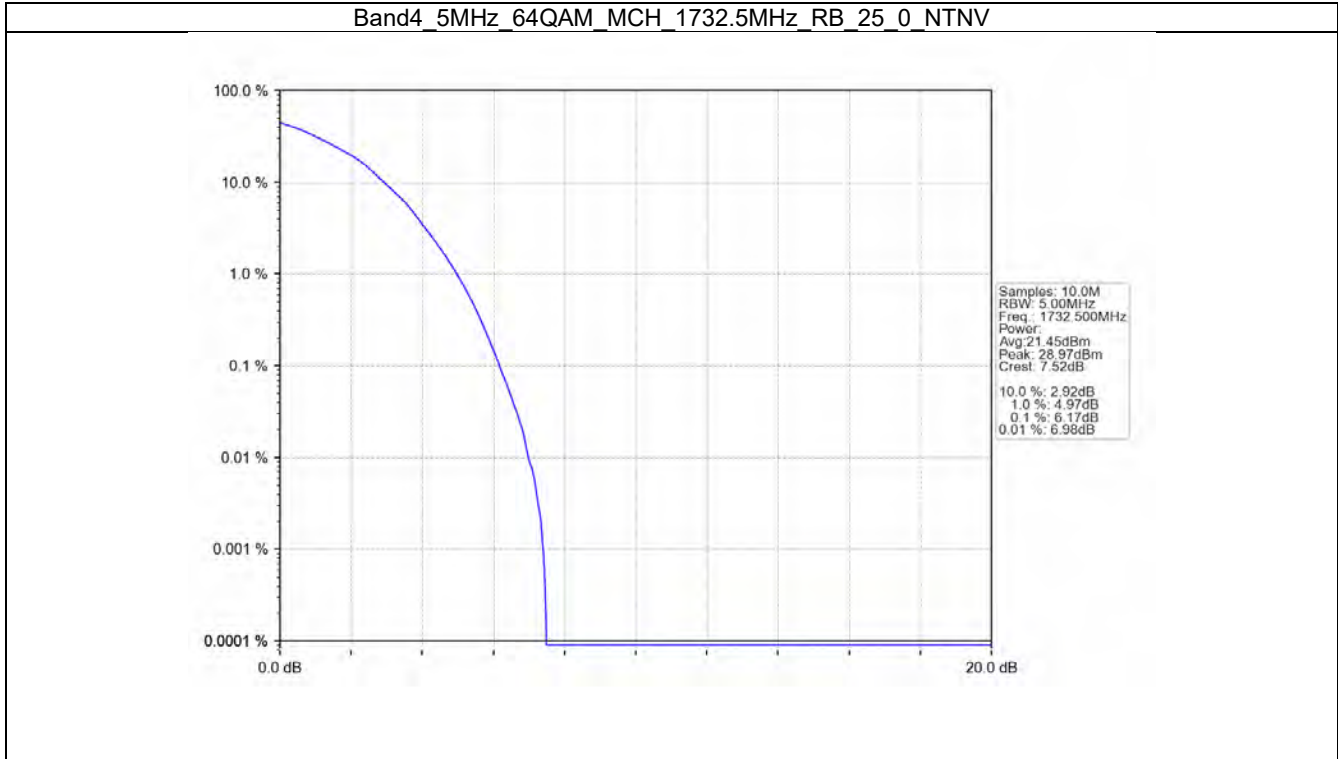
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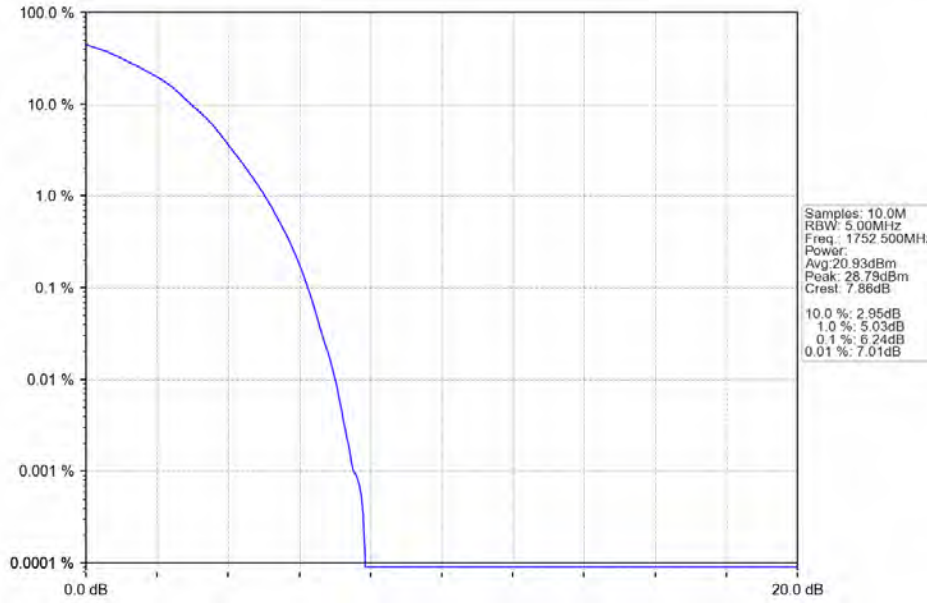
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Band4\_5MHz\_64QAM\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



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## 4.4 B4\_10MHz

### 4.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.27	<=13	Pass
	1732.5	50	0	5.40	<=13	Pass
	1750	50	0	5.40	<=13	Pass
16QAM	1715	50	0	6.08	<=13	Pass
	1732.5	50	0	6.22	<=13	Pass
	1750	50	0	6.25	<=13	Pass
64QAM	1715	50	0	6.03	<=13	Pass
	1732.5	50	0	6.21	<=13	Pass
	1750	50	0	6.24	<=13	Pass



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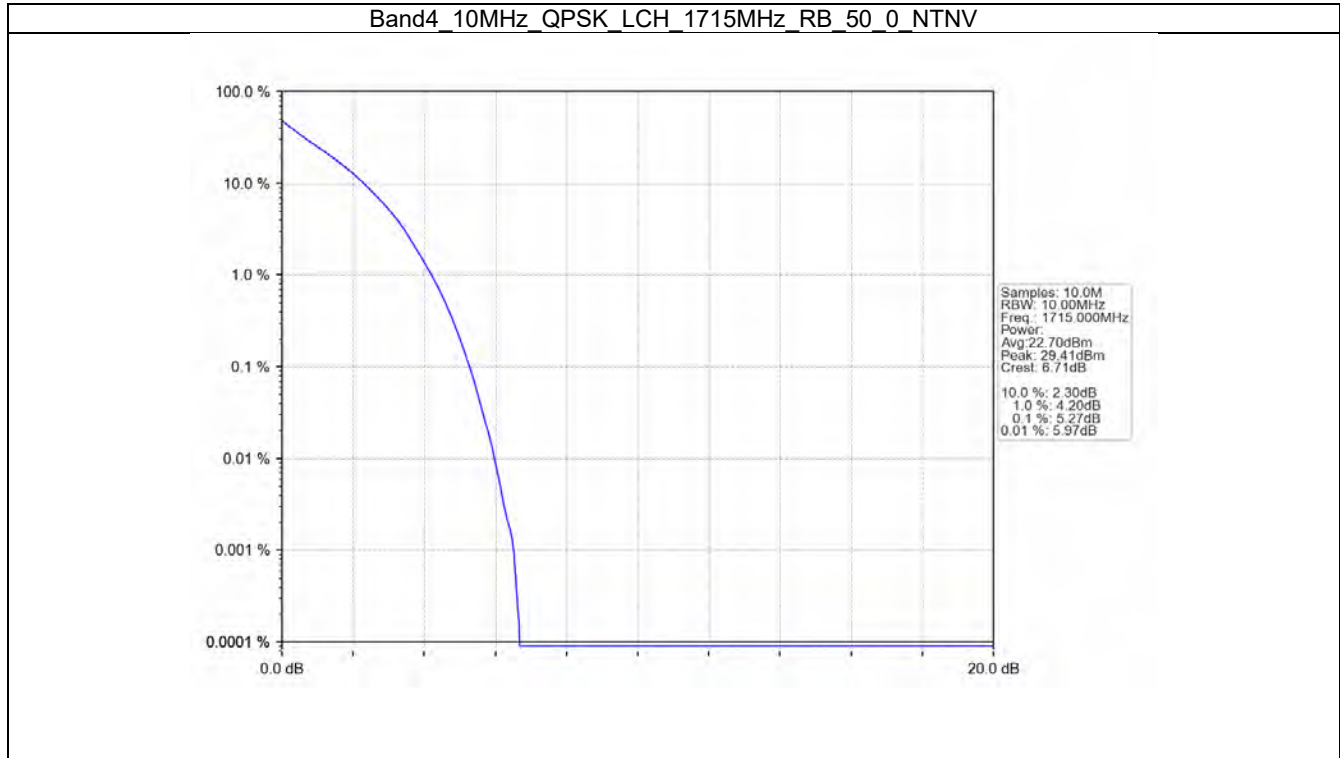
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## 4.4.2 Test Graph



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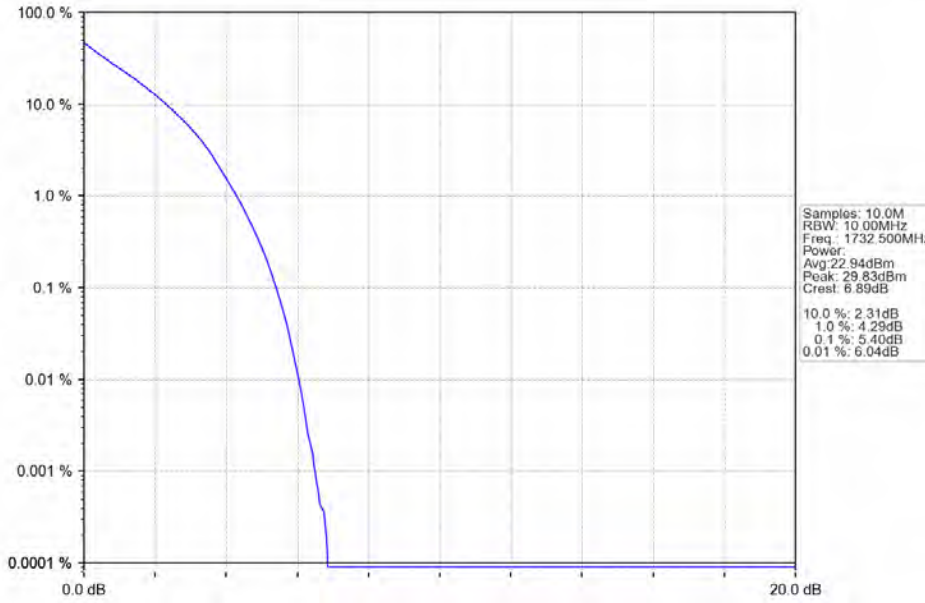
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Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



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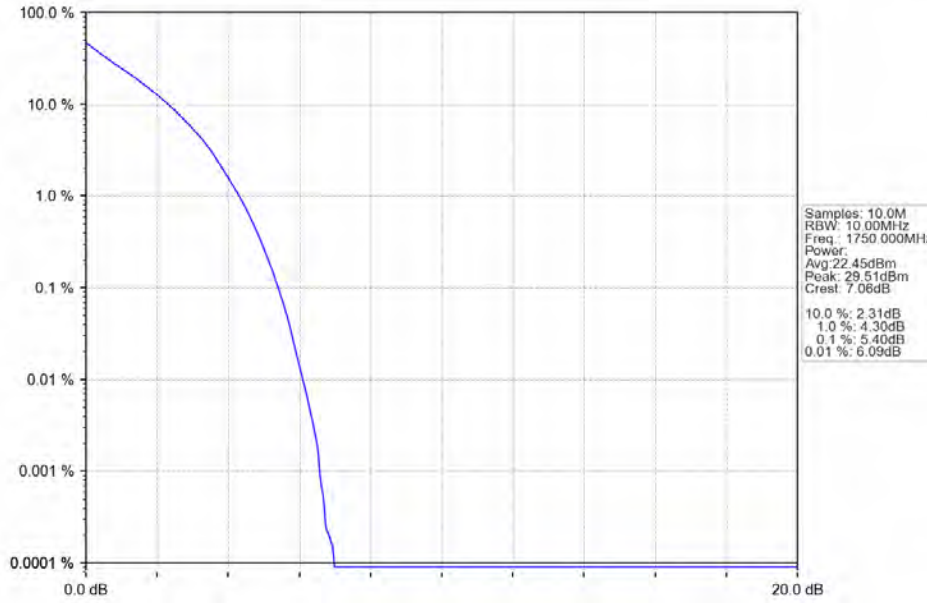




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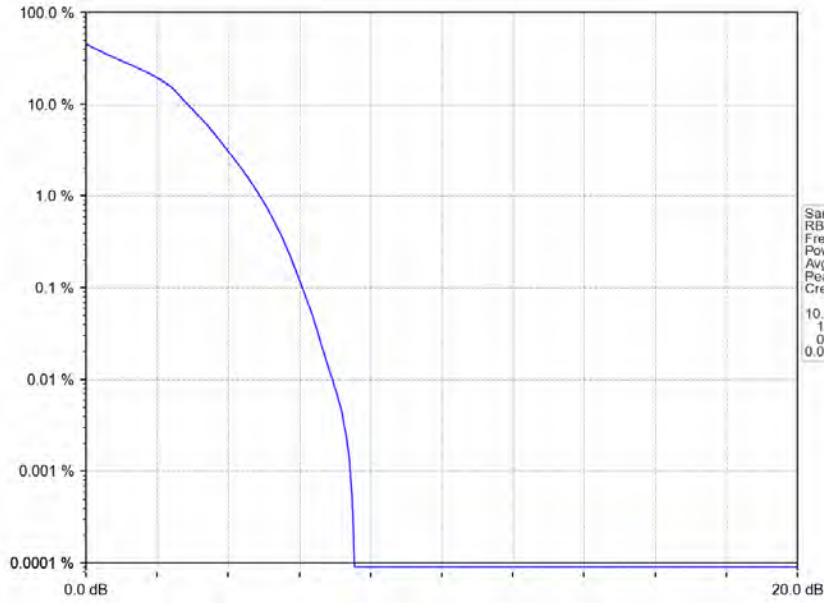
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Band4\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



Samples: 10.0M  
 RBW: 10.00MHz  
 Freq.: 1715.000MHz  
 Power:  
 Avg: 21.18dBm  
 Peak: 28.76dBm  
 Crest: 7.58dB  
 10.0 %: 2.85dB  
 1.0 %: 4.89dB  
 0.1 %: 6.08dB  
 0.01 %: 6.93dB



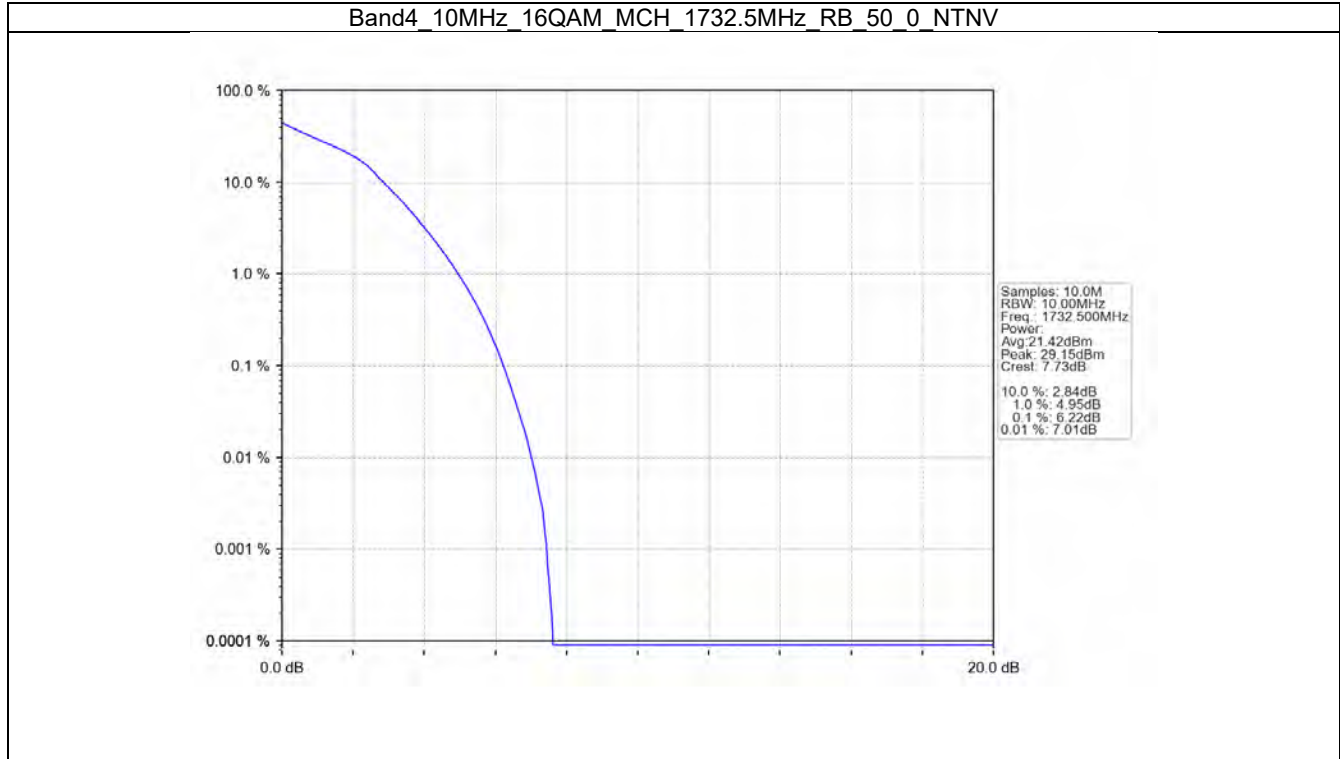
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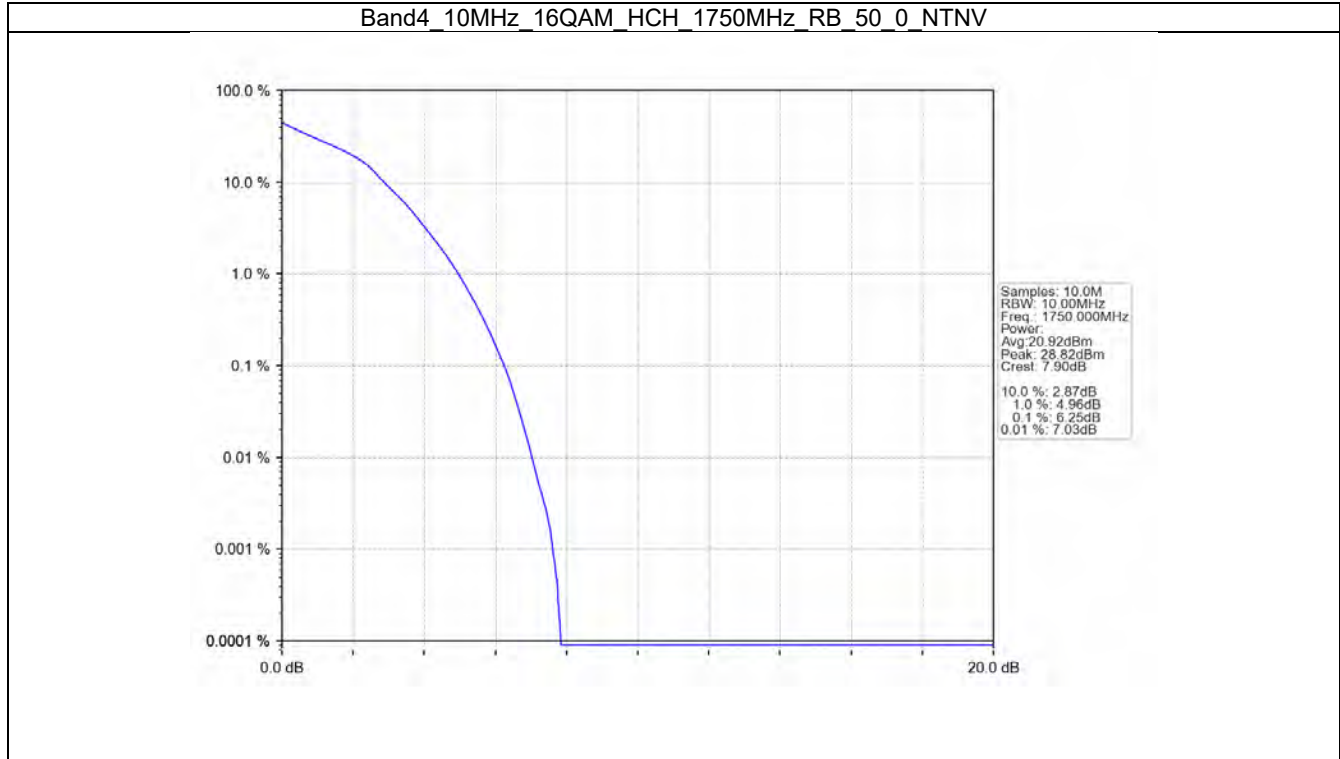
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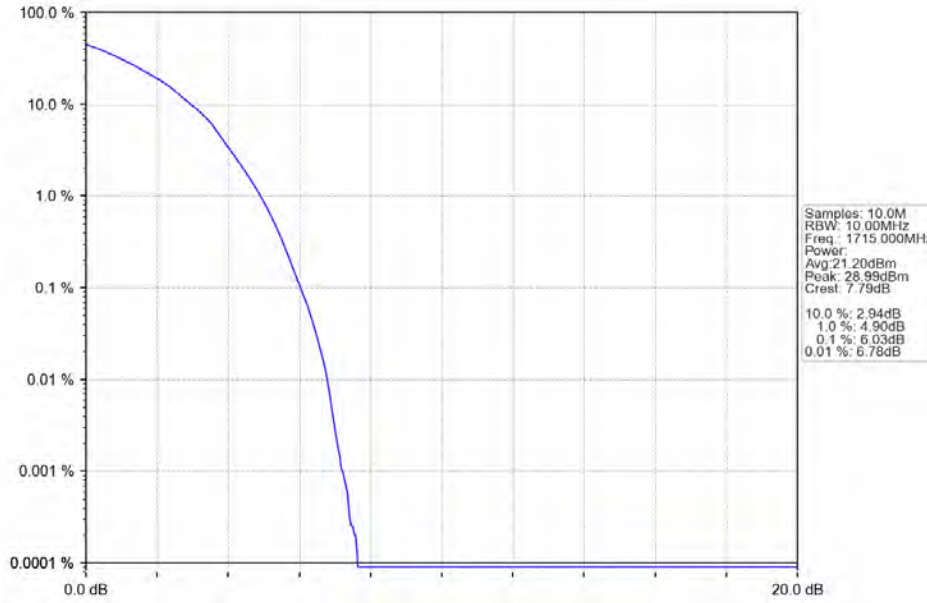
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Band4\_10MHz\_64QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



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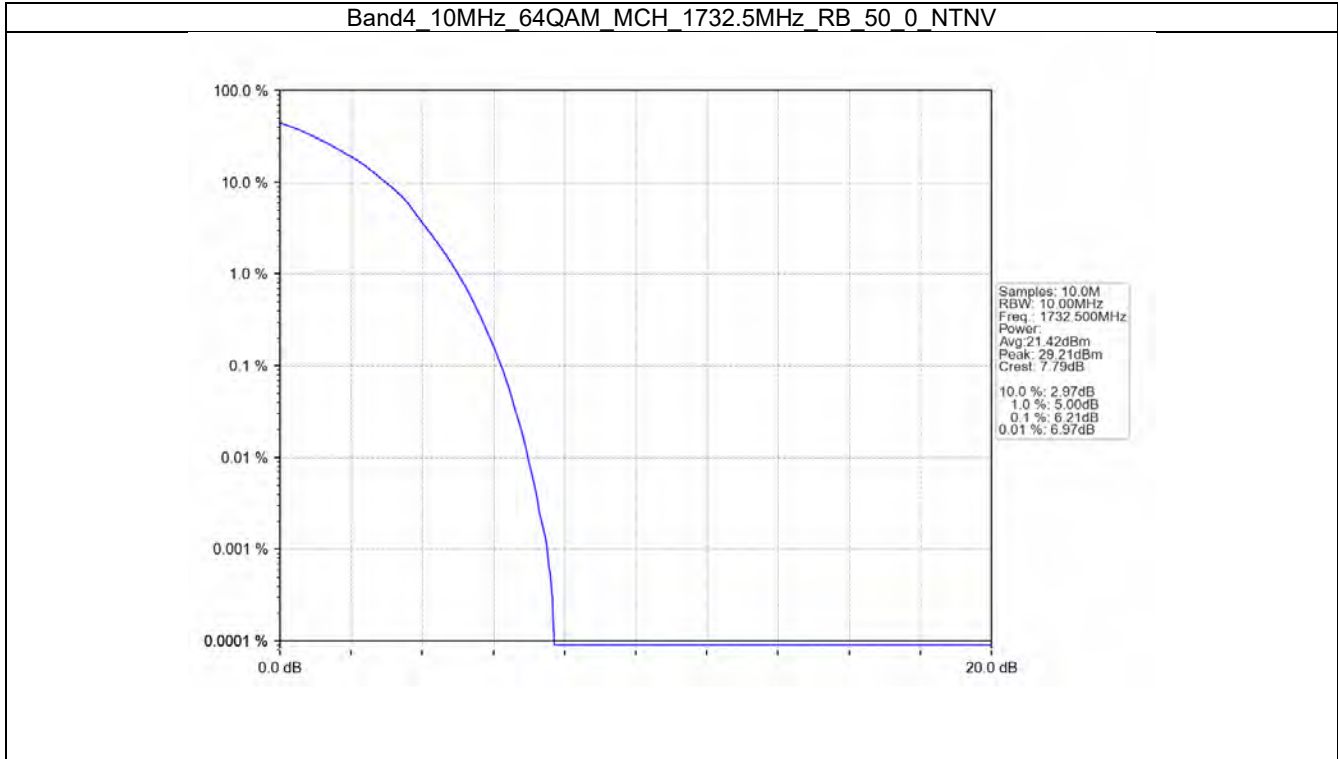
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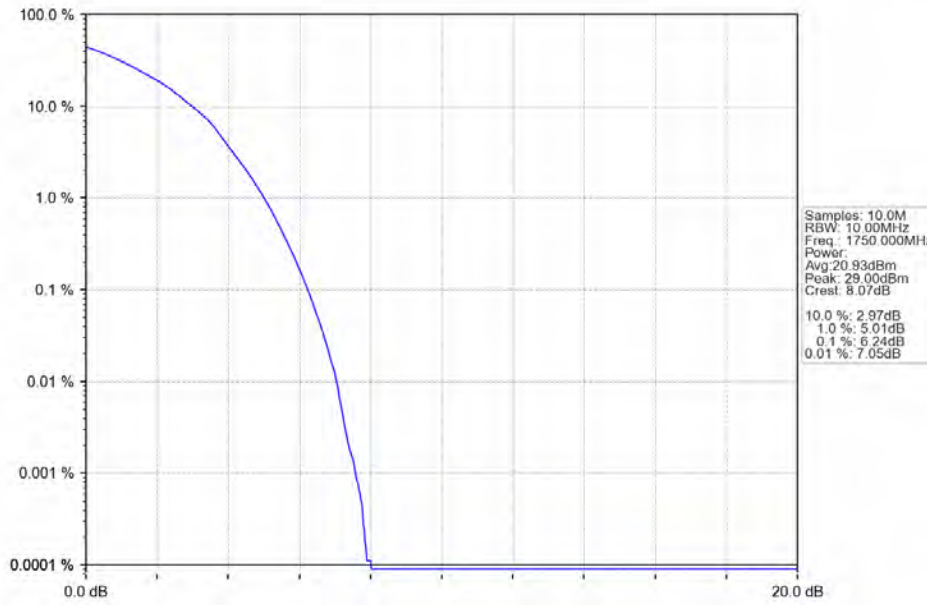
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Band4\_10MHz\_64QAM\_HCH\_1750MHz\_RB\_50\_0\_NTNV



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## 4.5 B4\_15MHz

### 4.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.59	<=13	Pass
	1732.5	75	0	5.67	<=13	Pass
	1747.5	75	0	5.64	<=13	Pass
16QAM	1717.5	75	0	6.19	<=13	Pass
	1732.5	75	0	6.27	<=13	Pass
	1747.5	75	0	6.22	<=13	Pass
64QAM	1717.5	75	0	6.10	<=13	Pass
	1732.5	75	0	6.19	<=13	Pass
	1747.5	75	0	6.19	<=13	Pass



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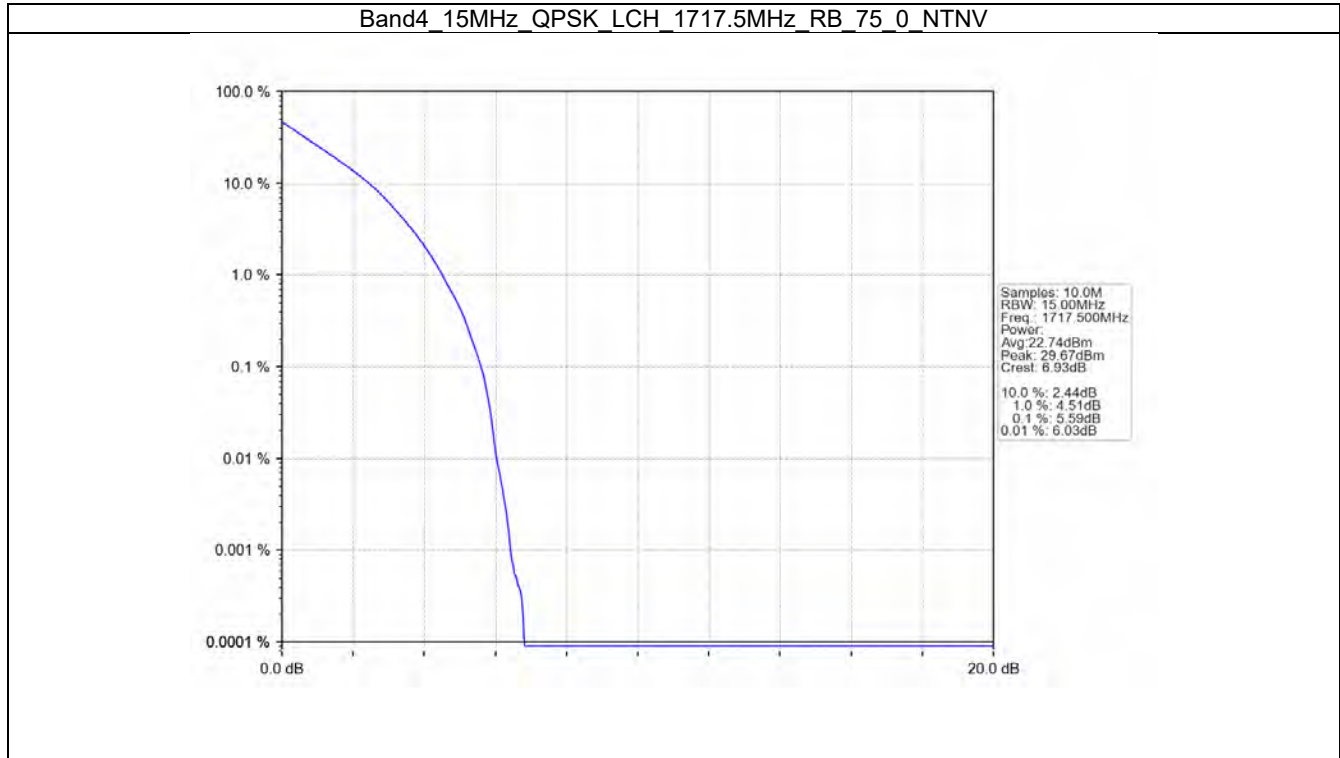




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4.5.2 Test Graph



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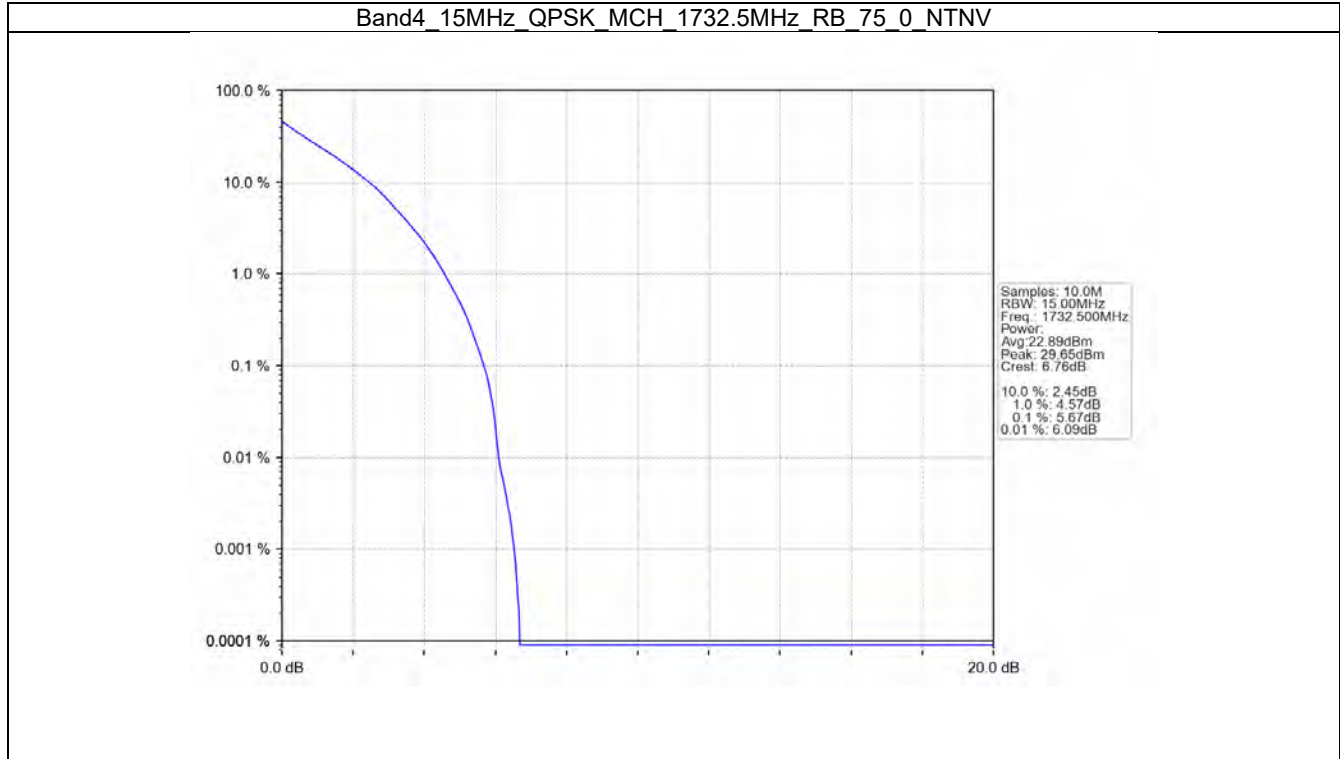
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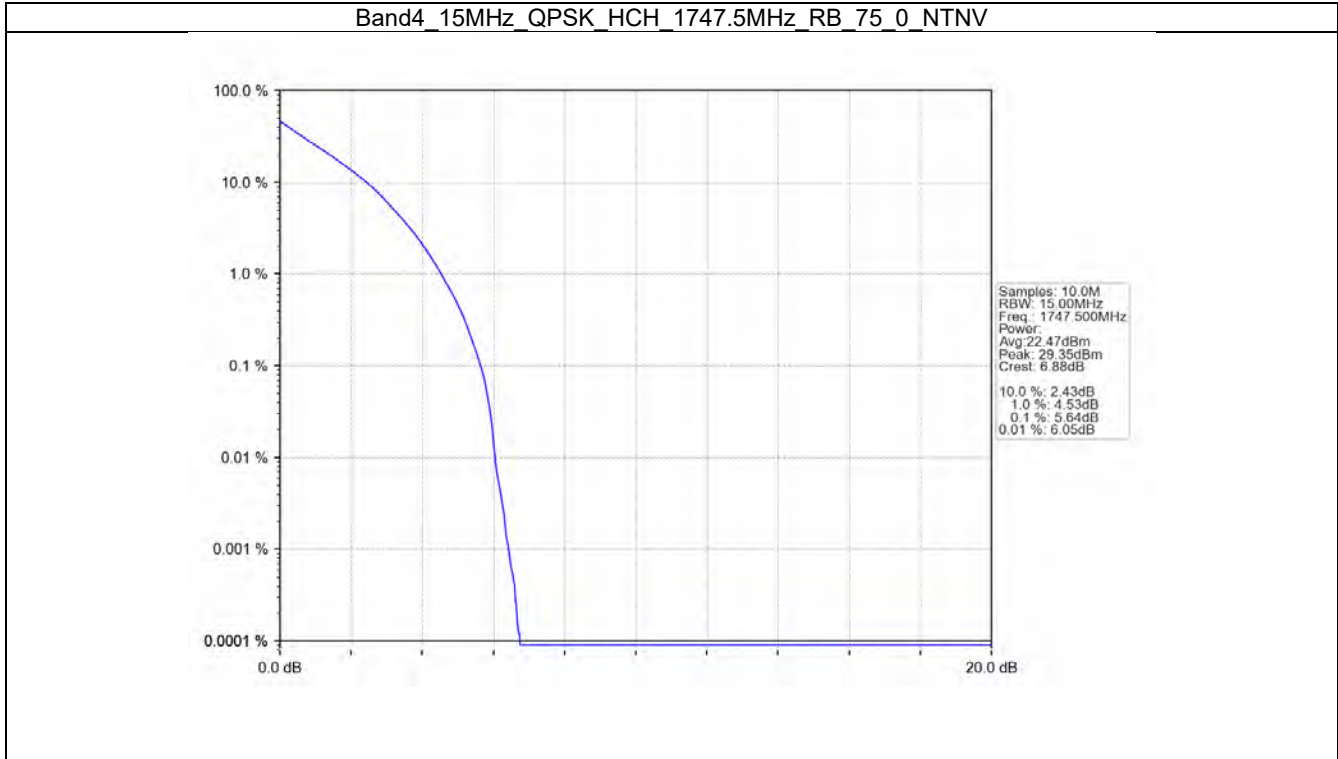
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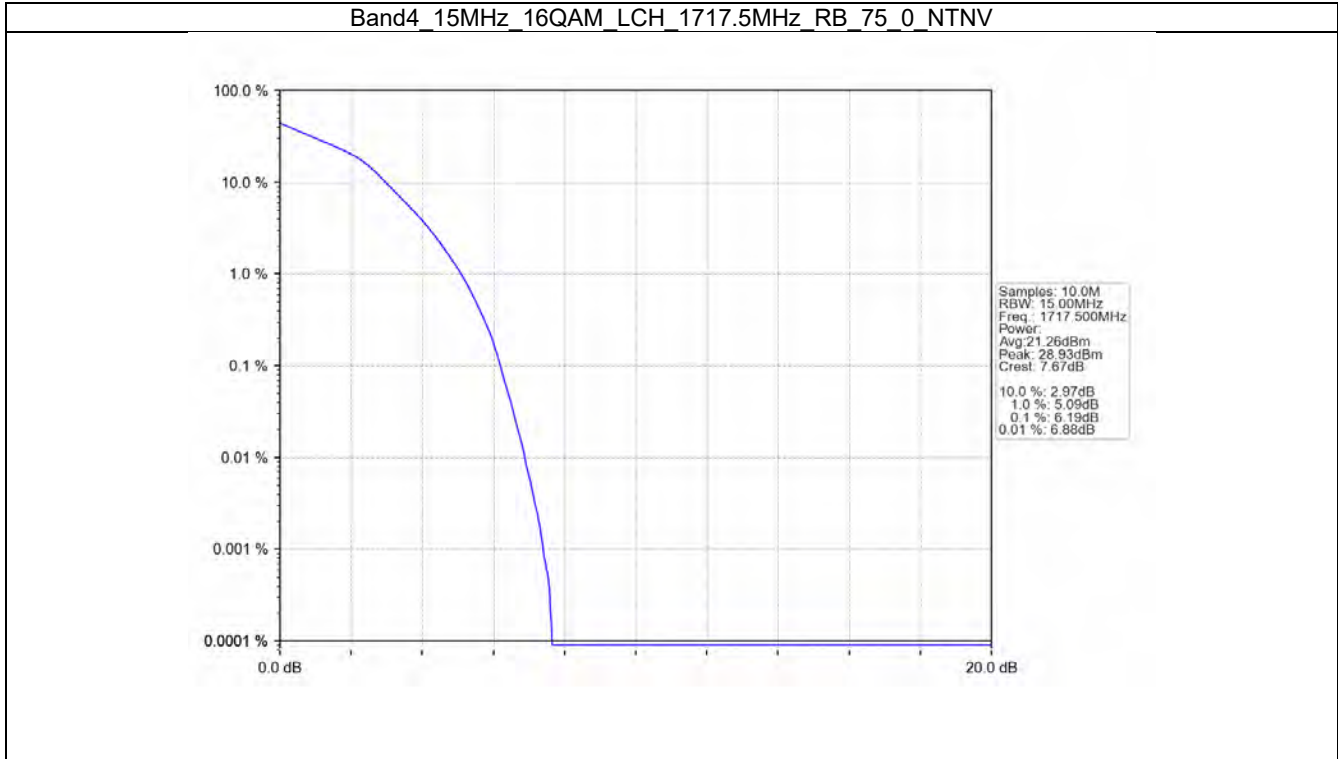
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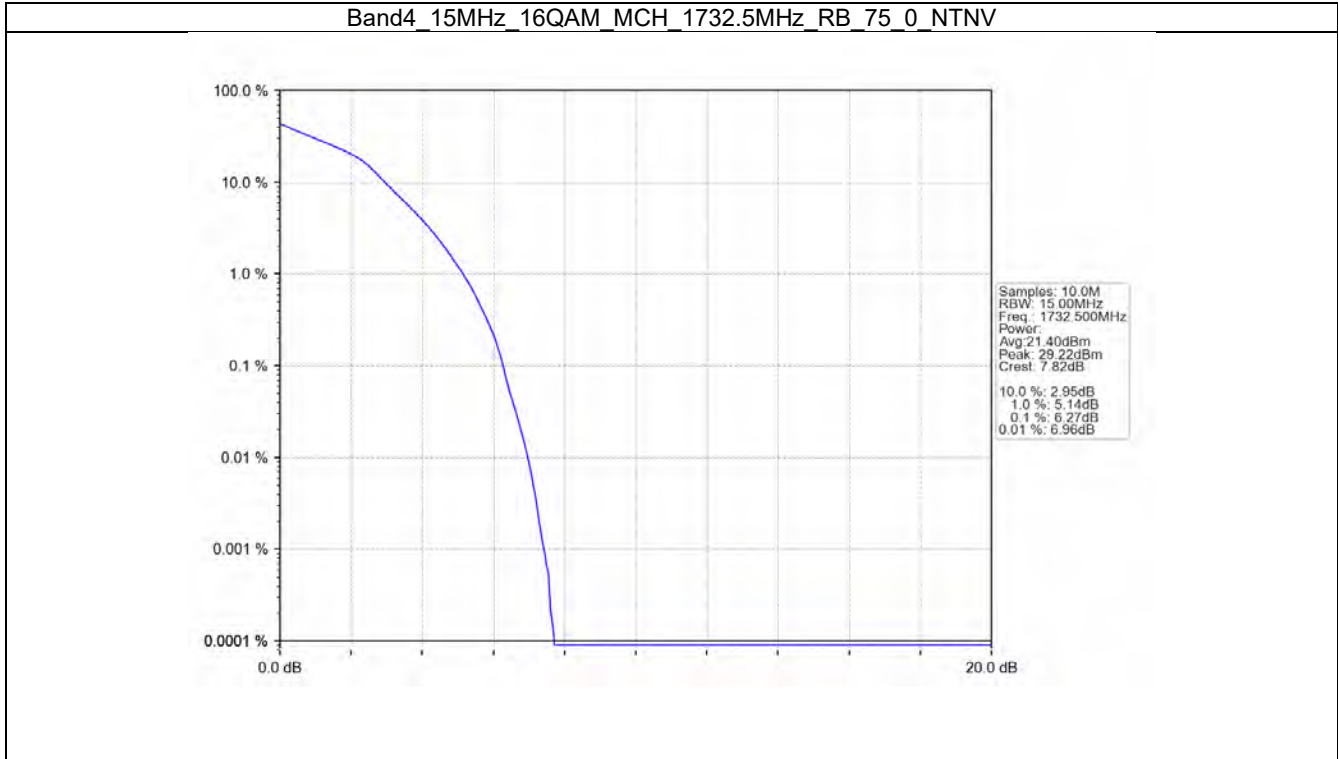
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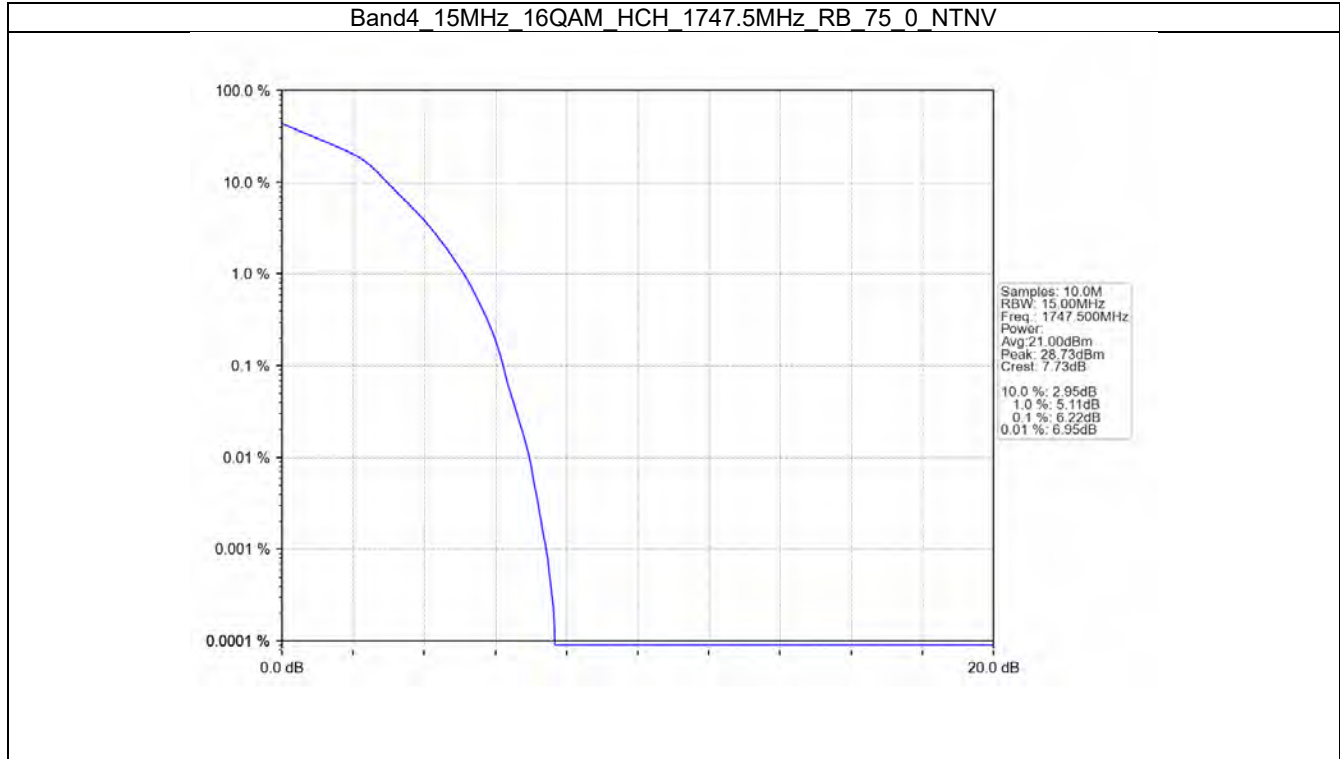
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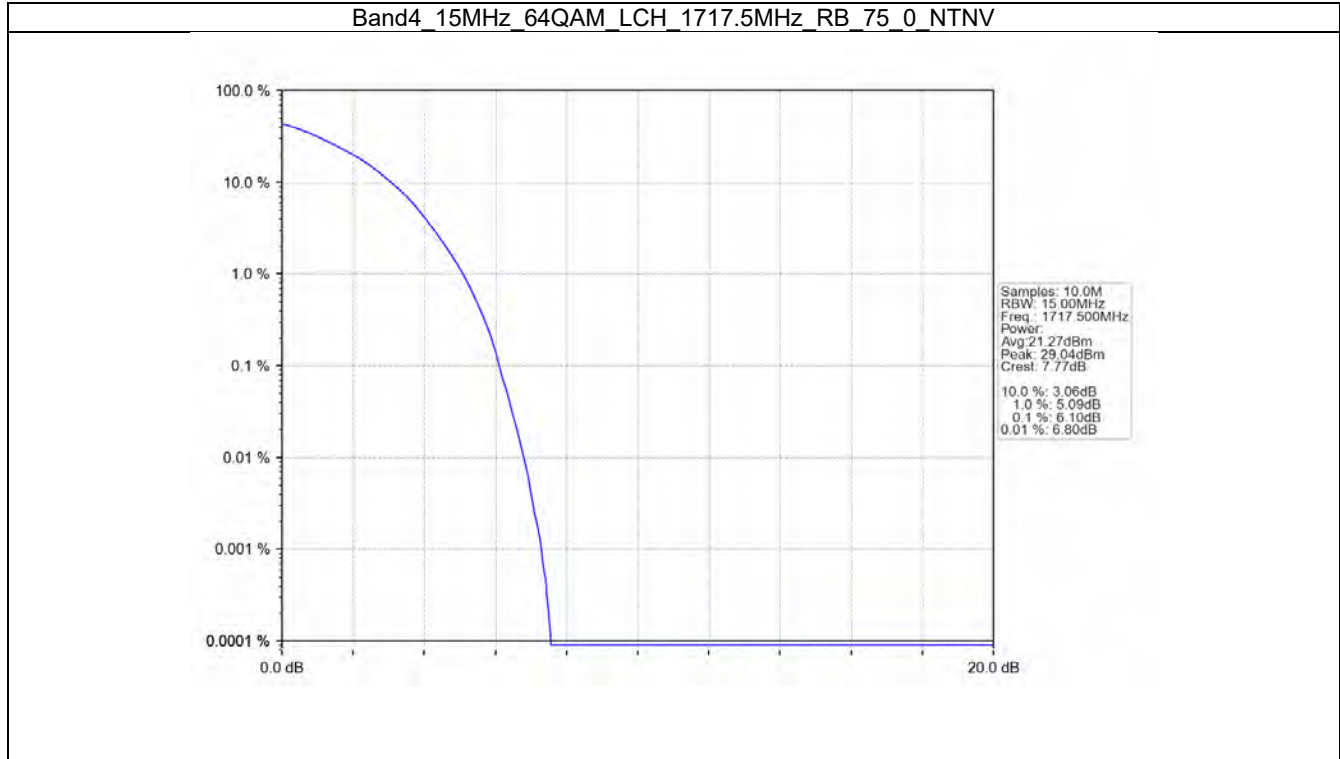
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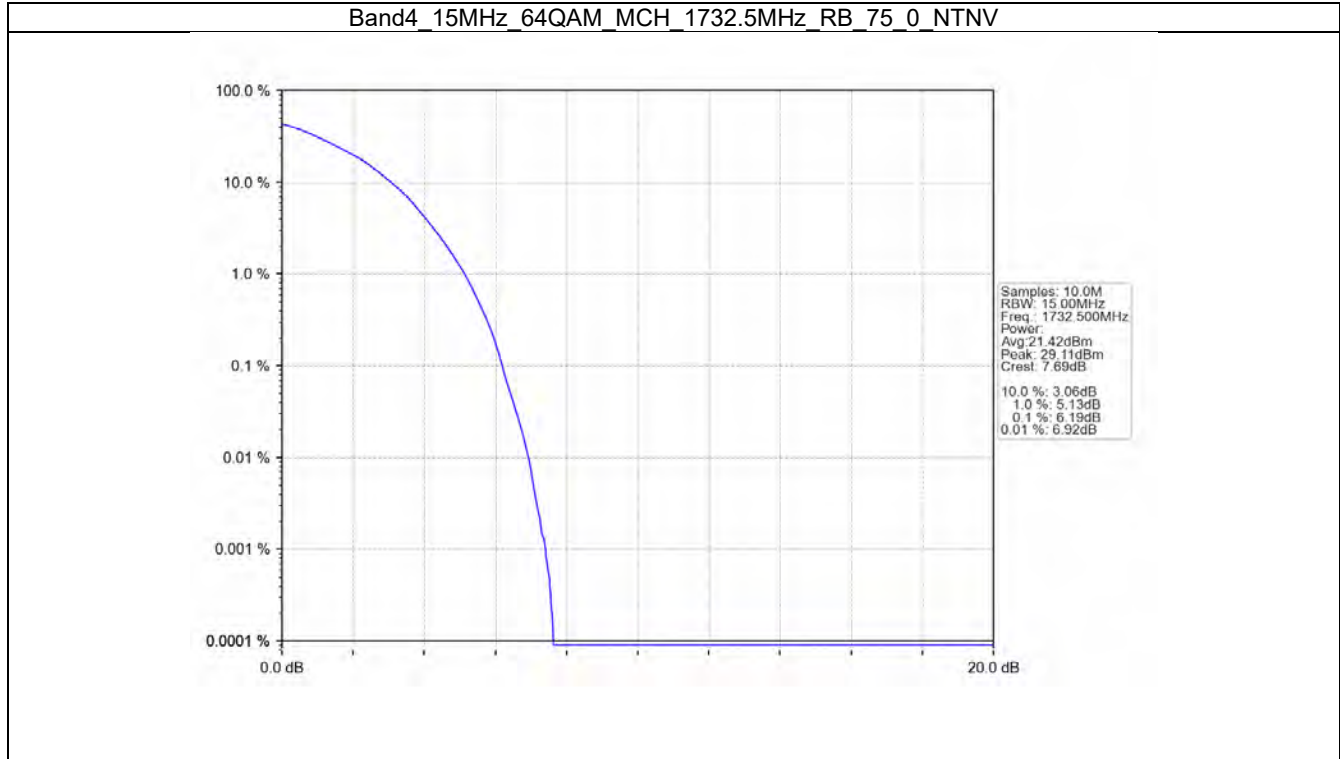
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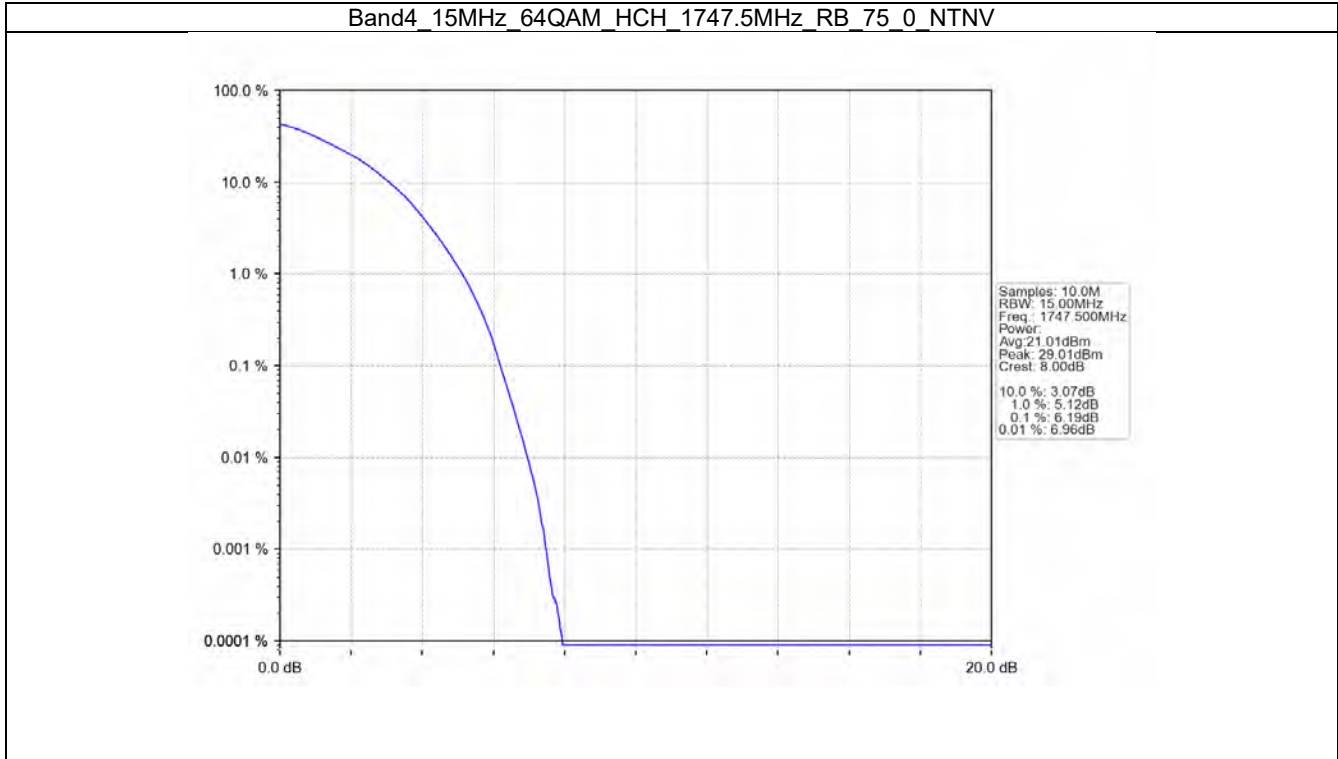
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## 4.6 B4\_20MHz

### 4.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.36	<=13	Pass
	1732.5	100	0	5.38	<=13	Pass
	1745	100	0	5.36	<=13	Pass
16QAM	1720	100	0	6.19	<=13	Pass
	1732.5	100	0	6.20	<=13	Pass
	1745	100	0	6.14	<=13	Pass
64QAM	1720	100	0	6.19	<=13	Pass
	1732.5	100	0	6.17	<=13	Pass
	1745	100	0	6.14	<=13	Pass



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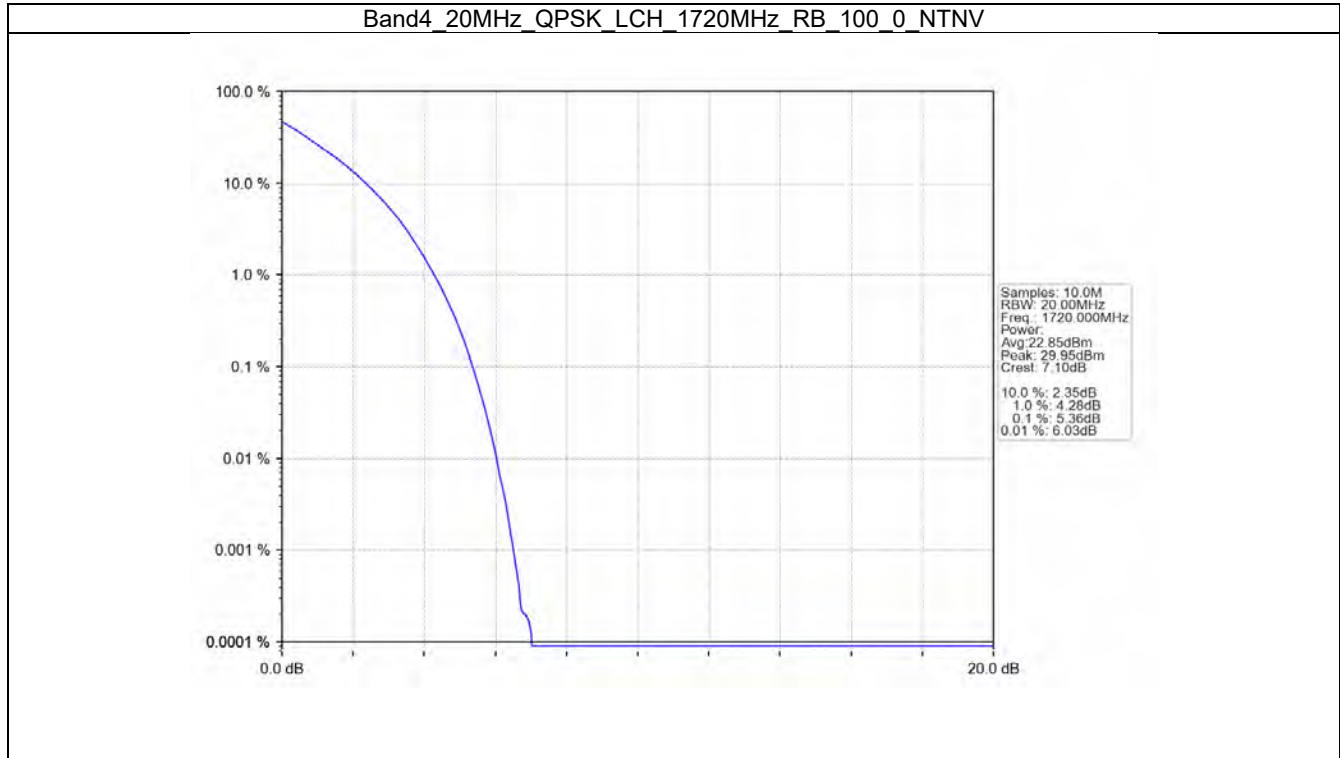
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4.6.2 Test Graph



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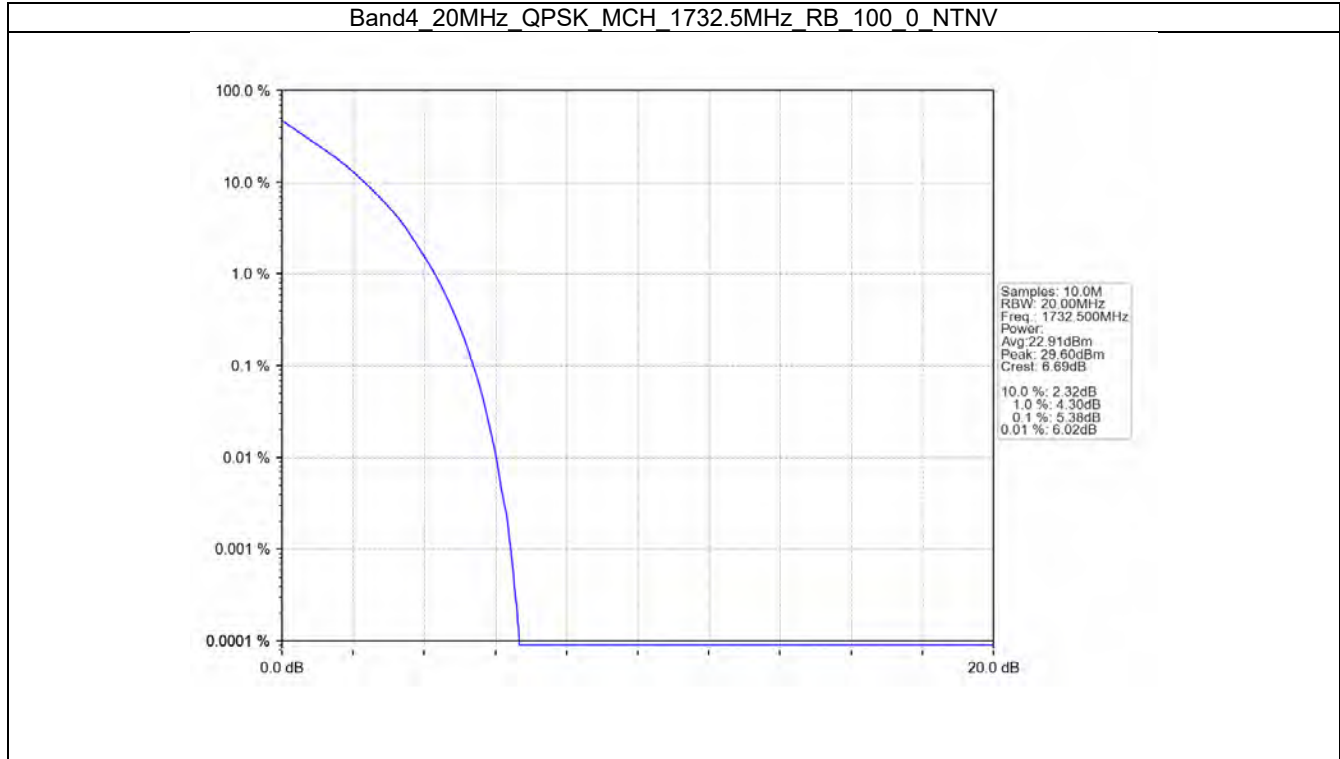
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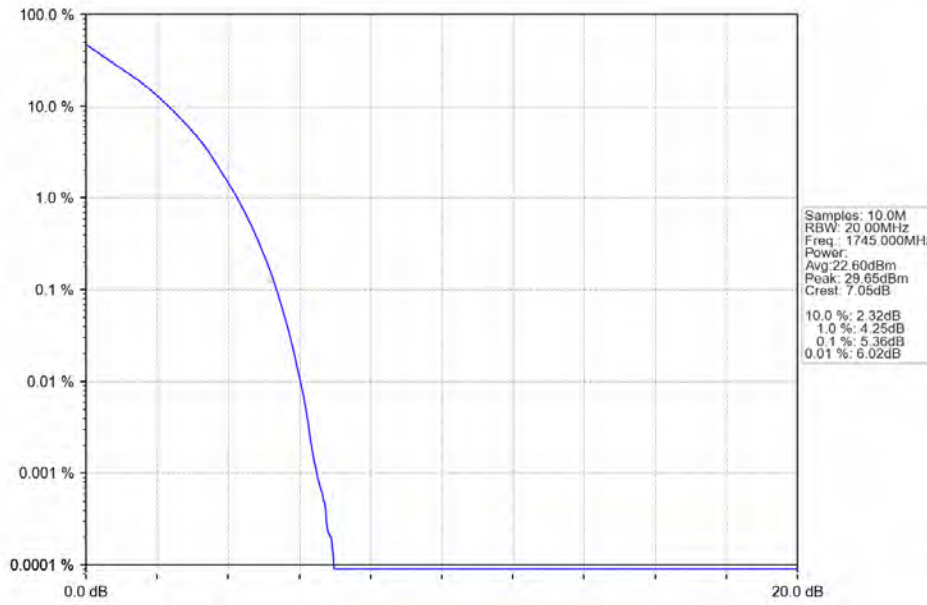
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Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



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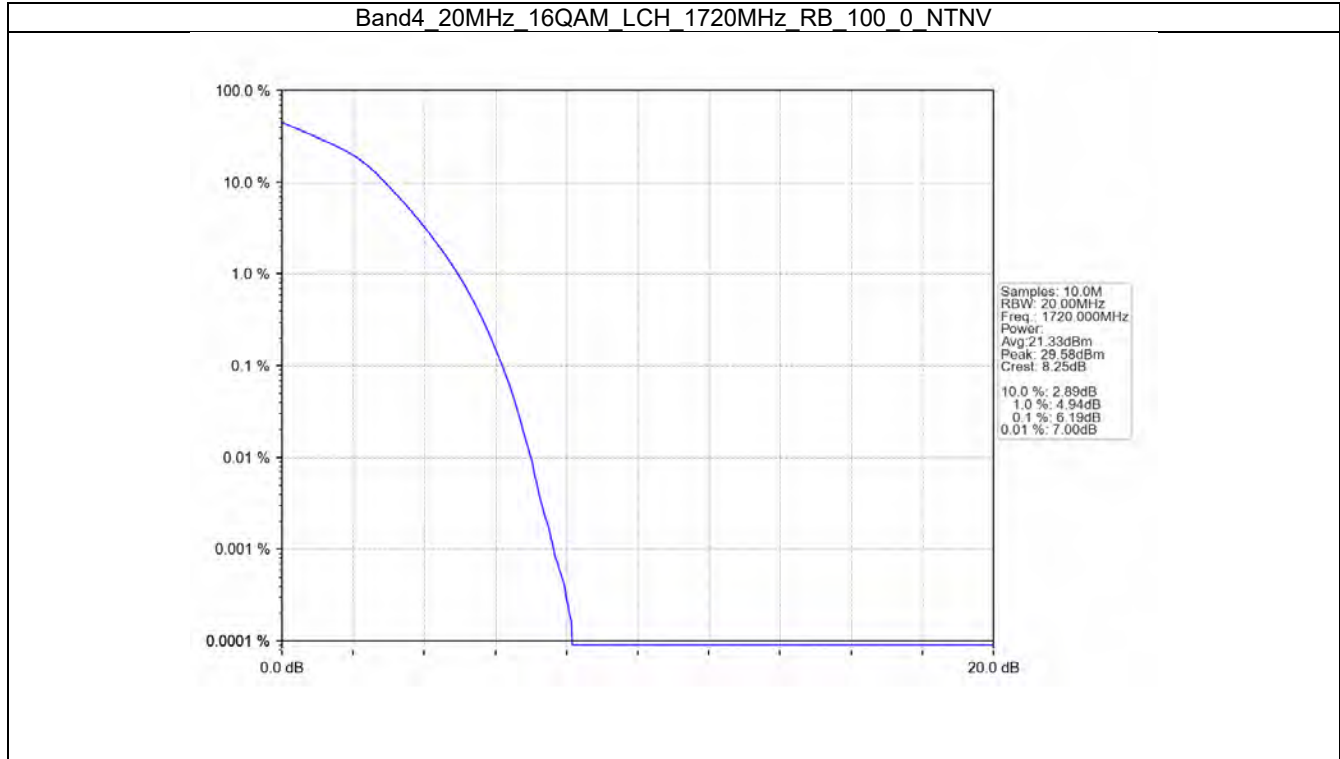
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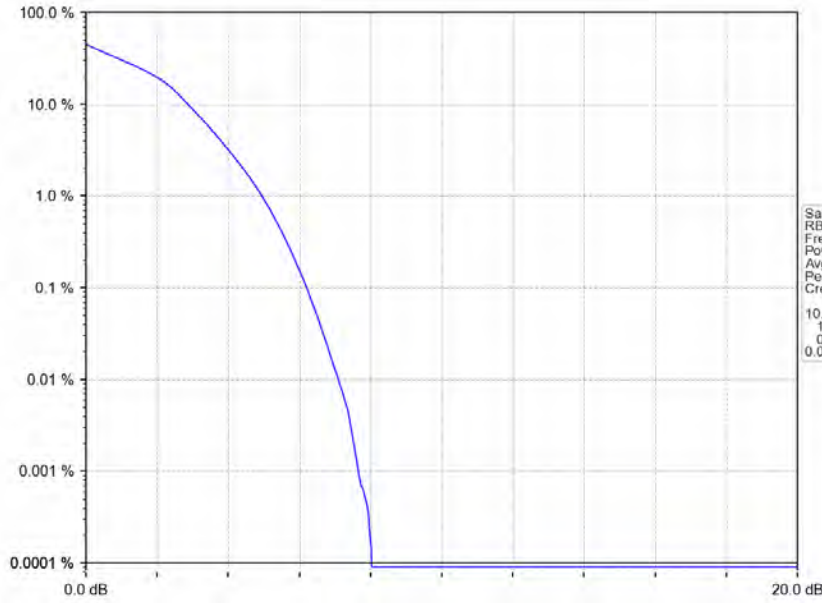
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Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Samples: 10.0M  
 RBW: 20.00MHz  
 Freq.: 1732.500MHz  
 Power:  
 Avg: 21.40dBm  
 Peak: 29.47dBm  
 Crest: 8.07dB  
 10.0 %: 2.86dB  
 1.0 %: 4.94dB  
 0.1 %: 6.20dB  
 0.01 %: 7.09dB



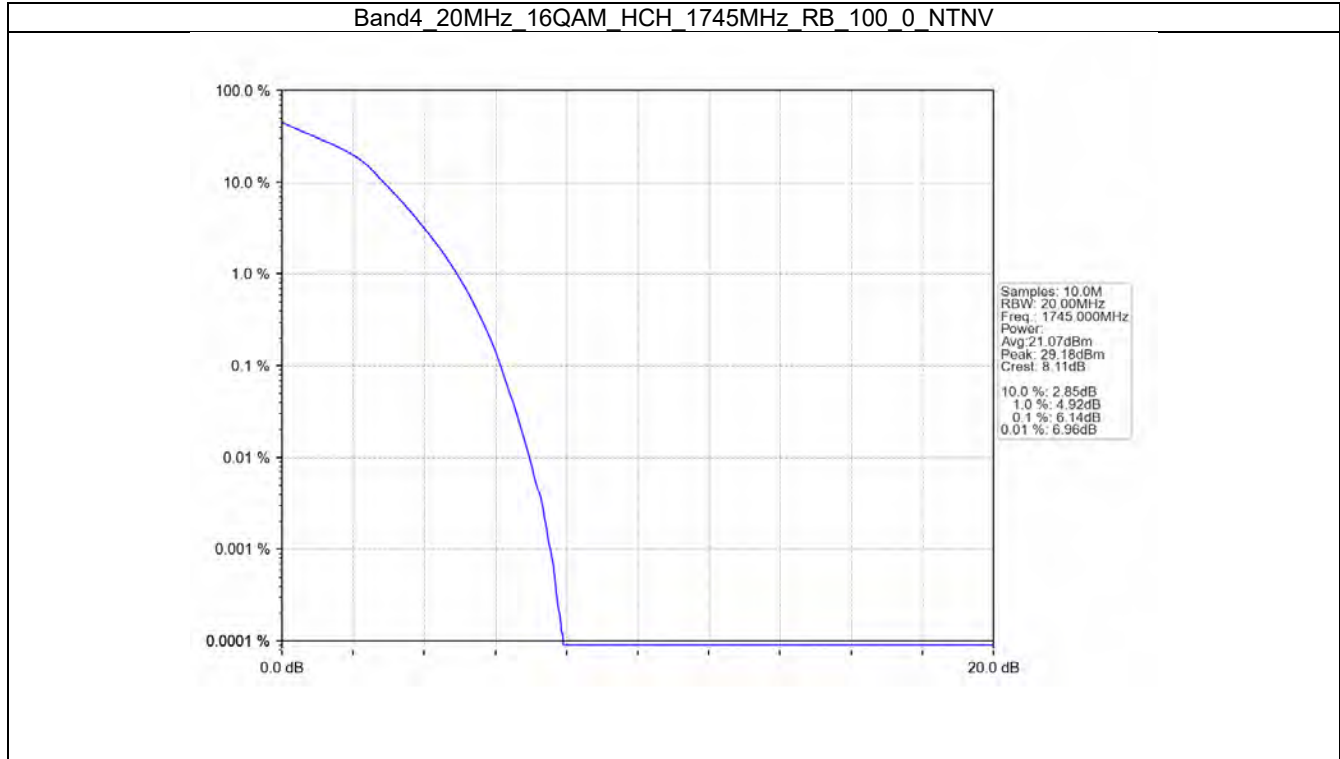
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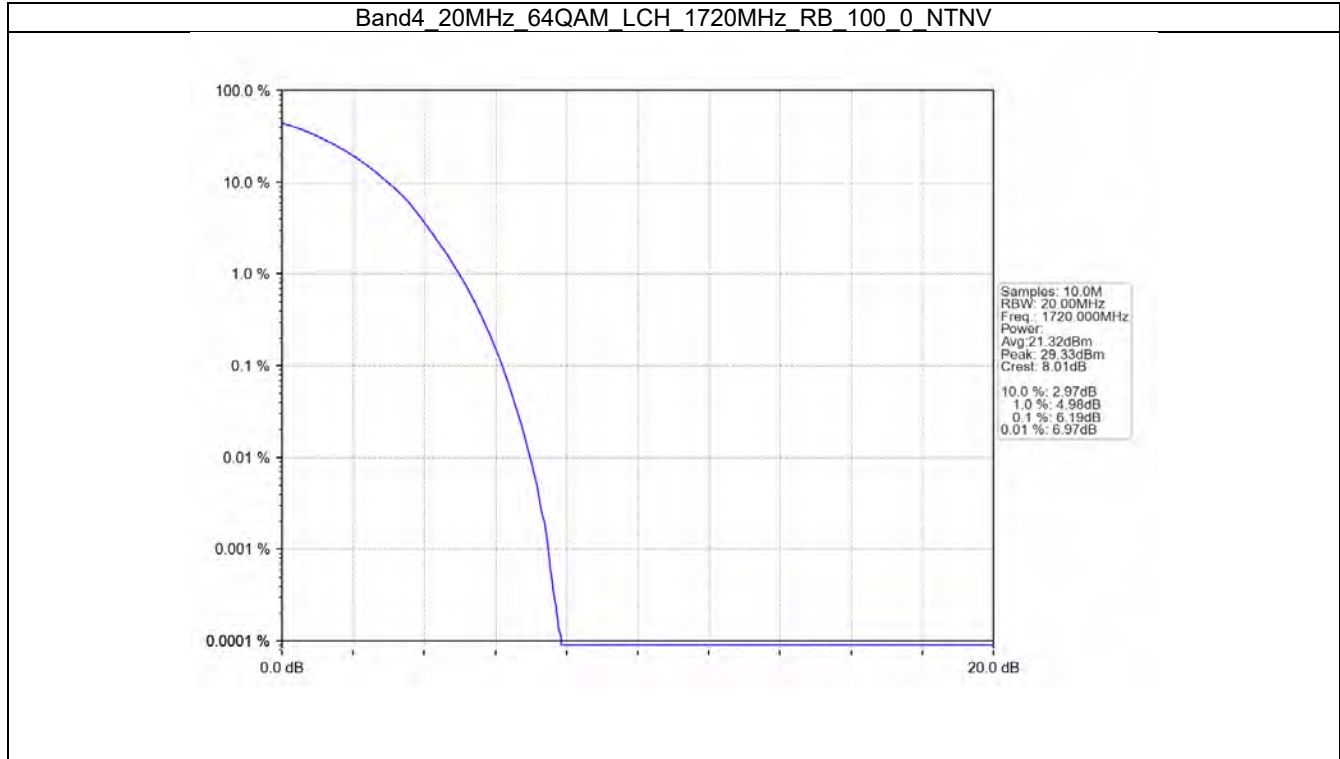
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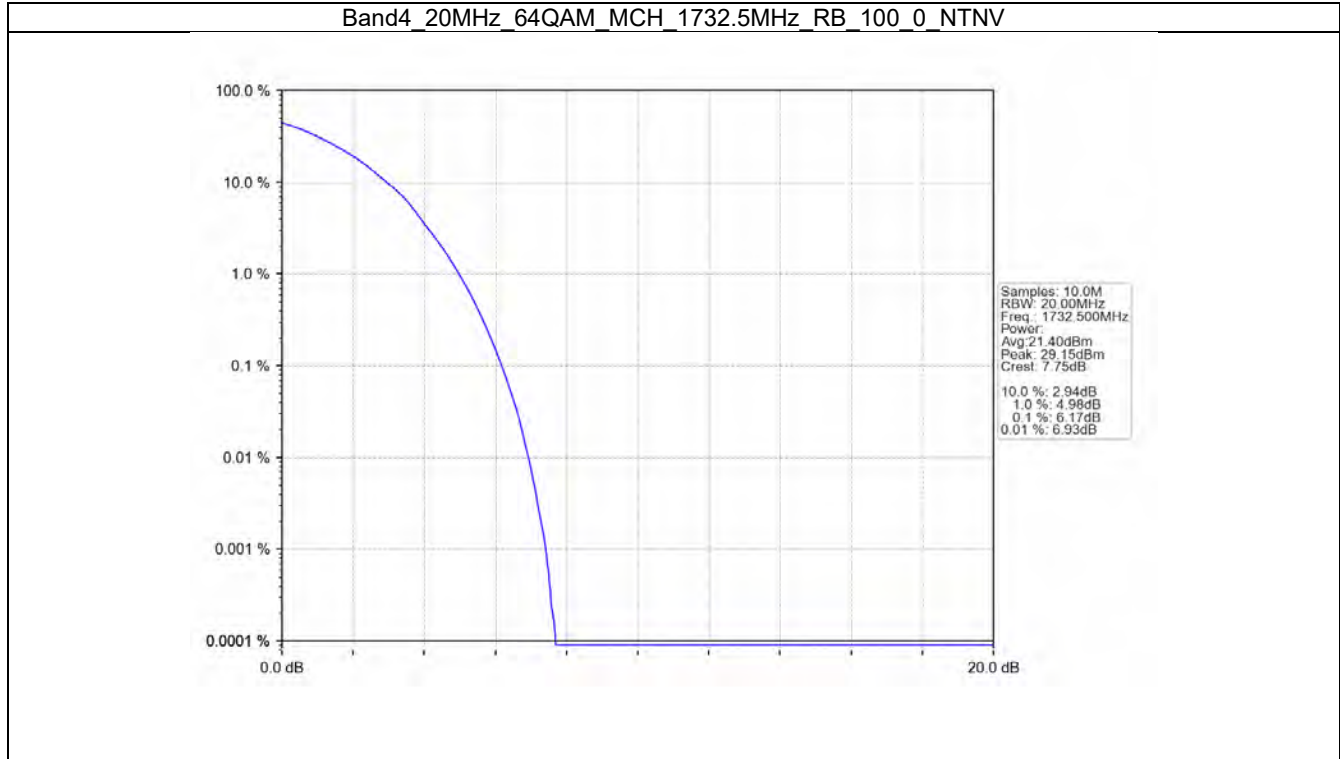
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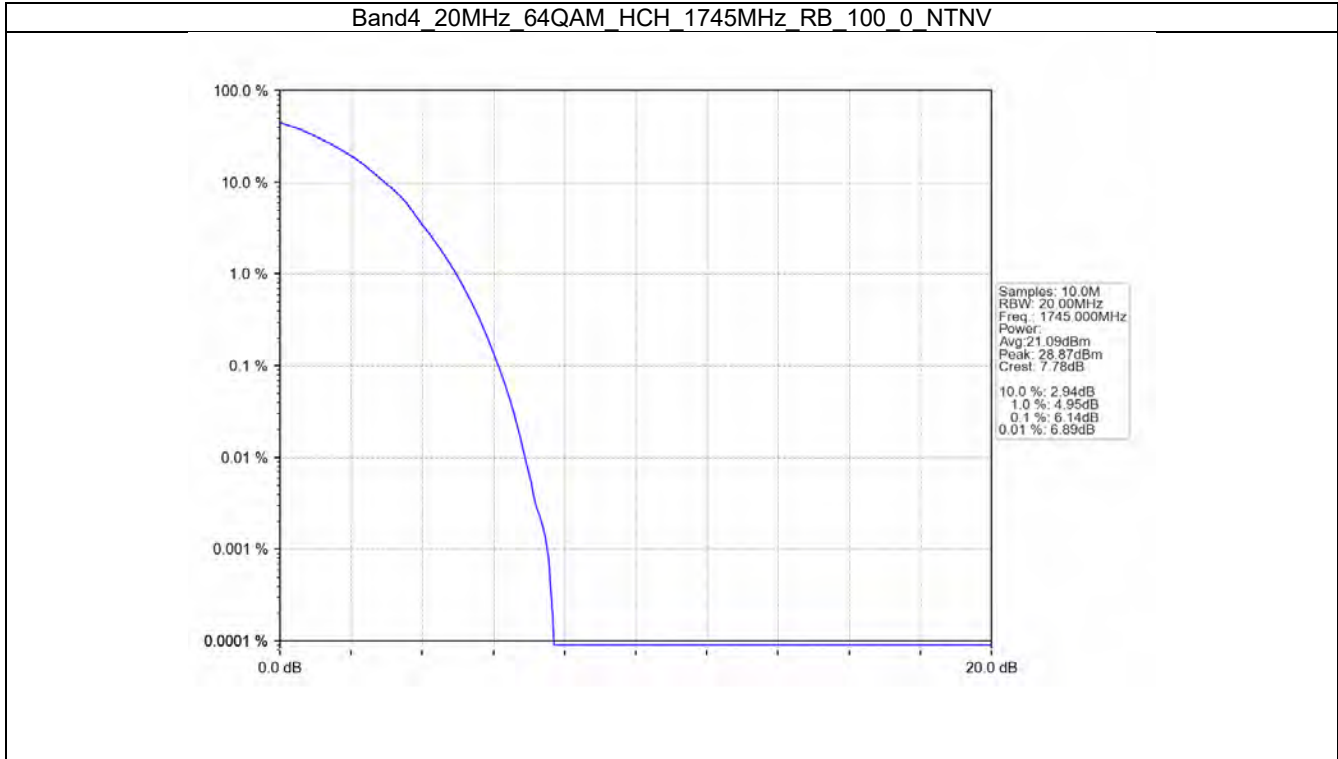
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## 5. Spurious Emission & Band Edges

### 5.1 B4\_1.4MHz

#### 5.1.1 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
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
64QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass



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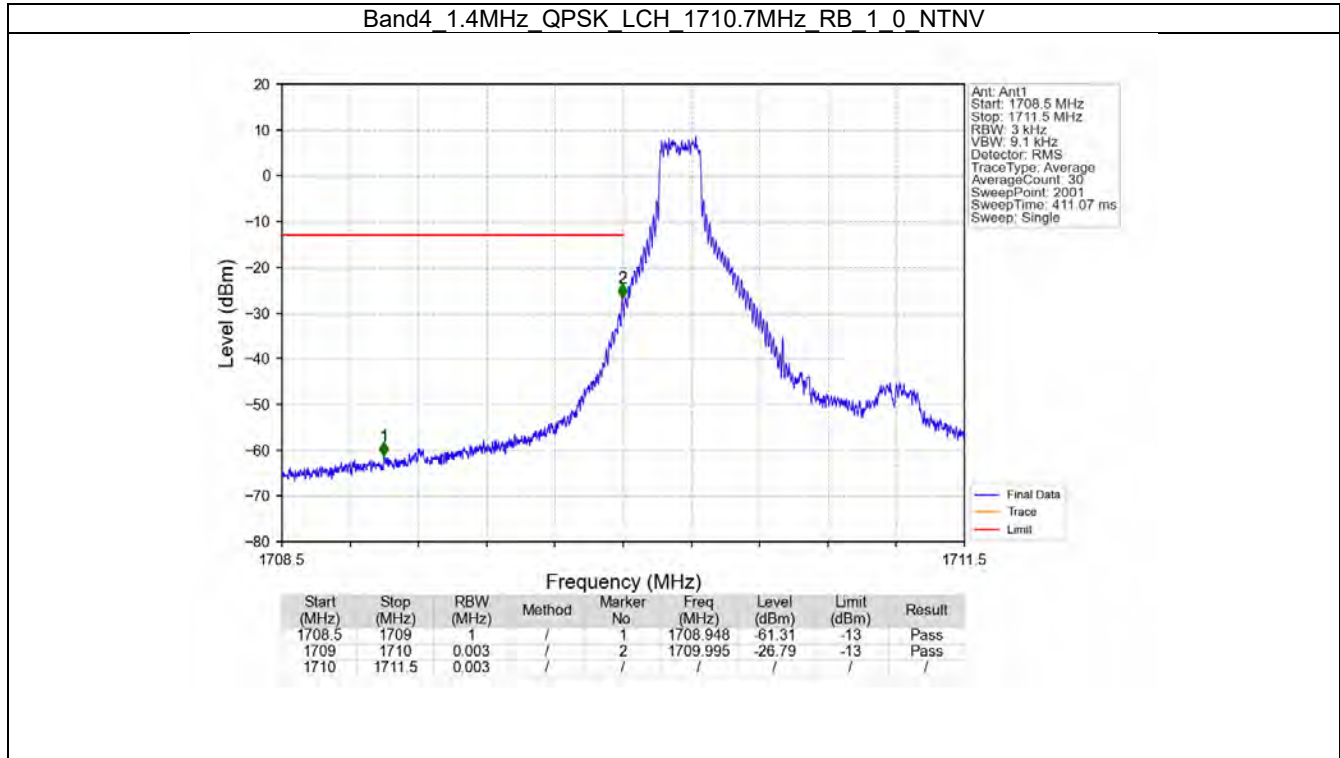
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5.1.2 Test Graph



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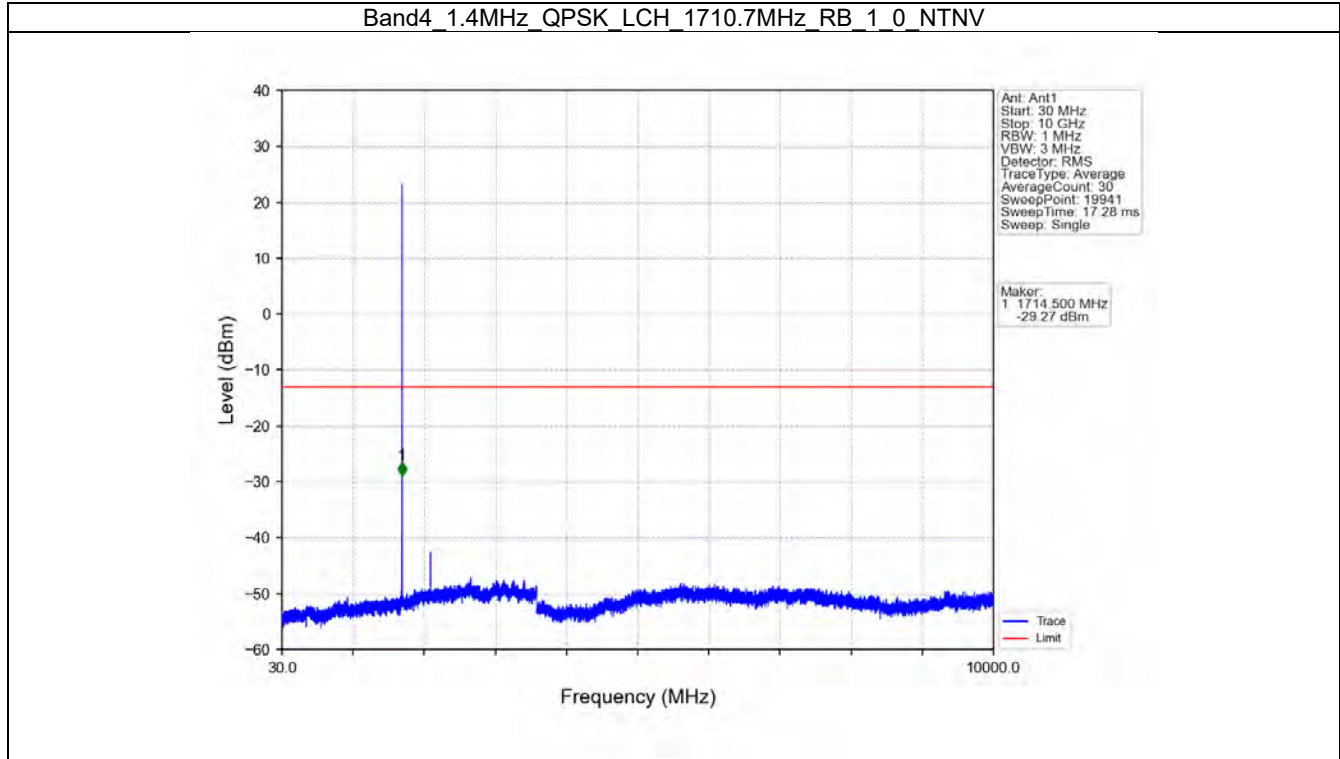
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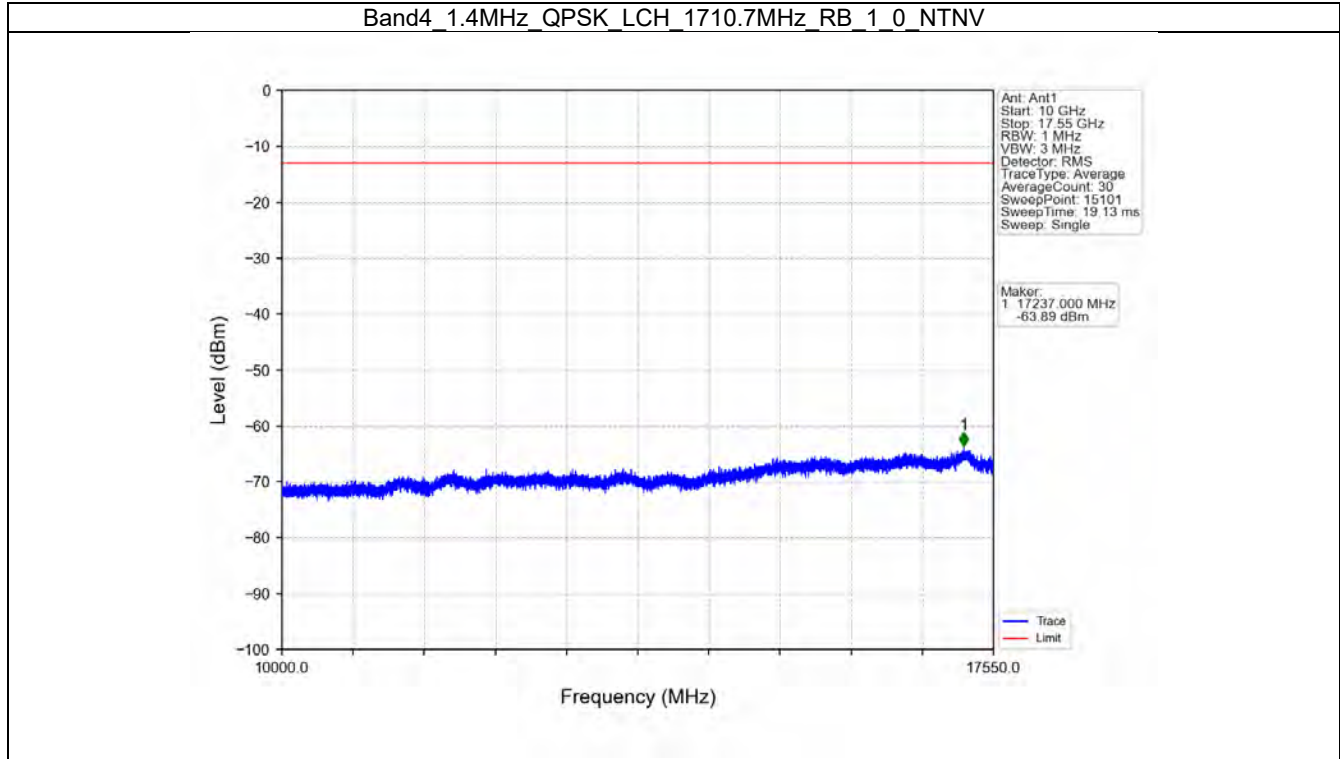
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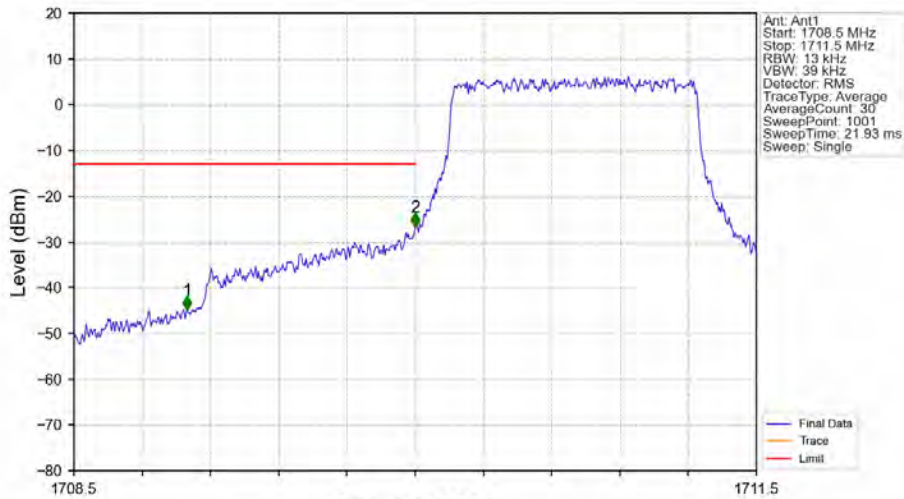
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Band4\_1.4MHz\_QPSK\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.998	-44.87	-13	Pass
1709	1710	0.013	/	2	1710.000	-26.75	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



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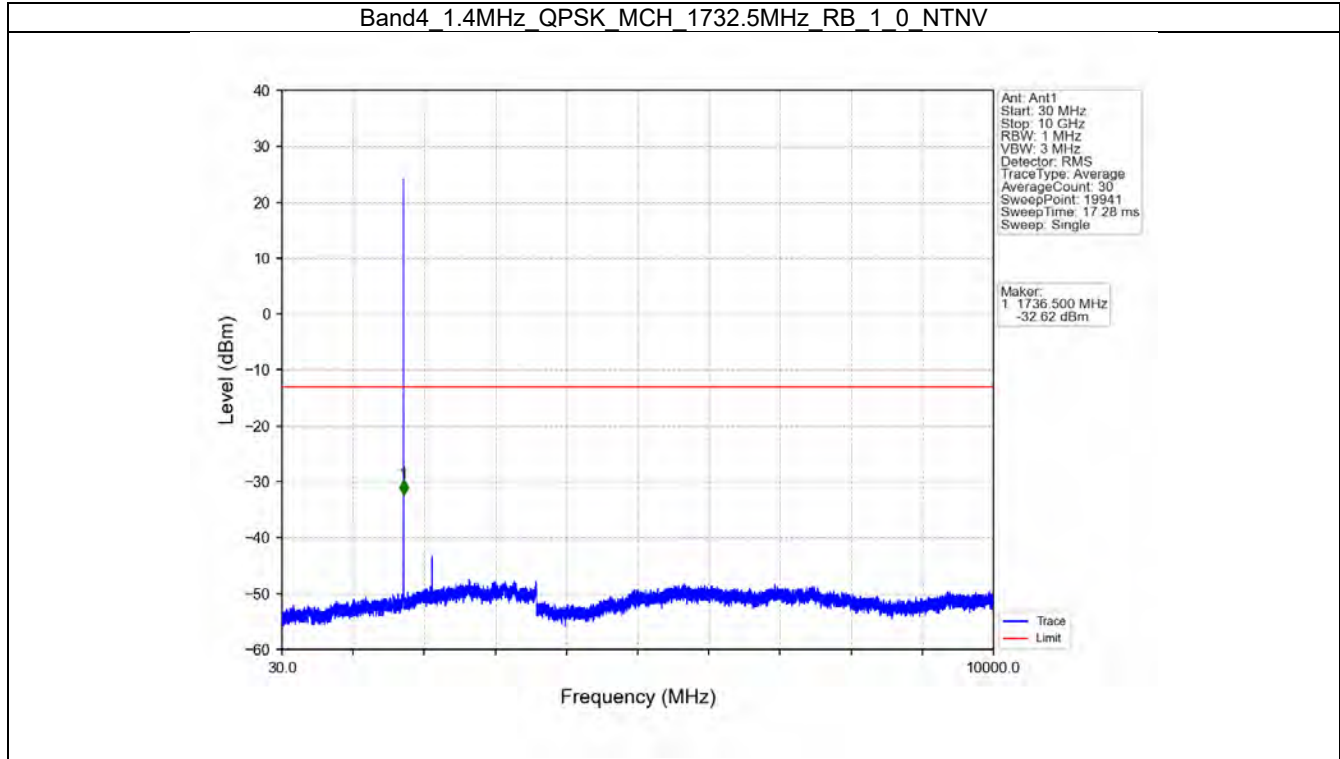
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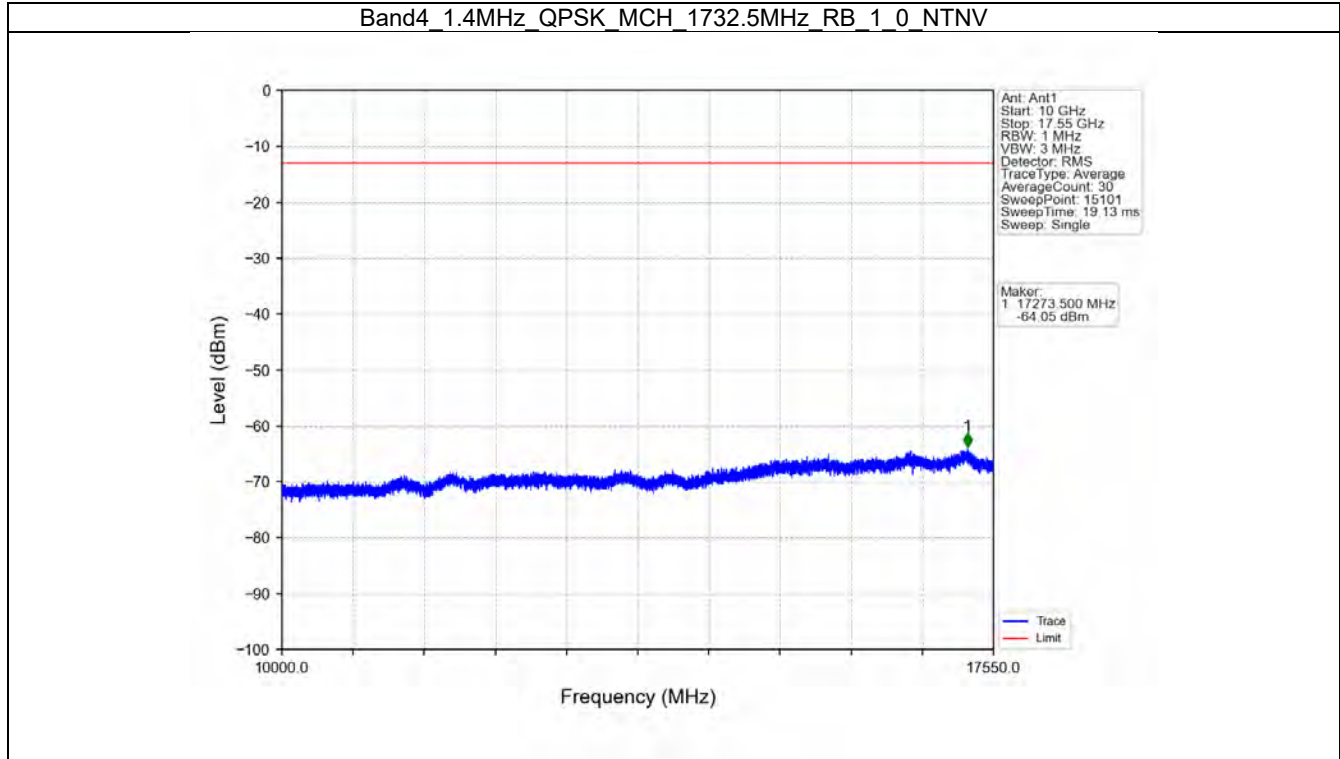
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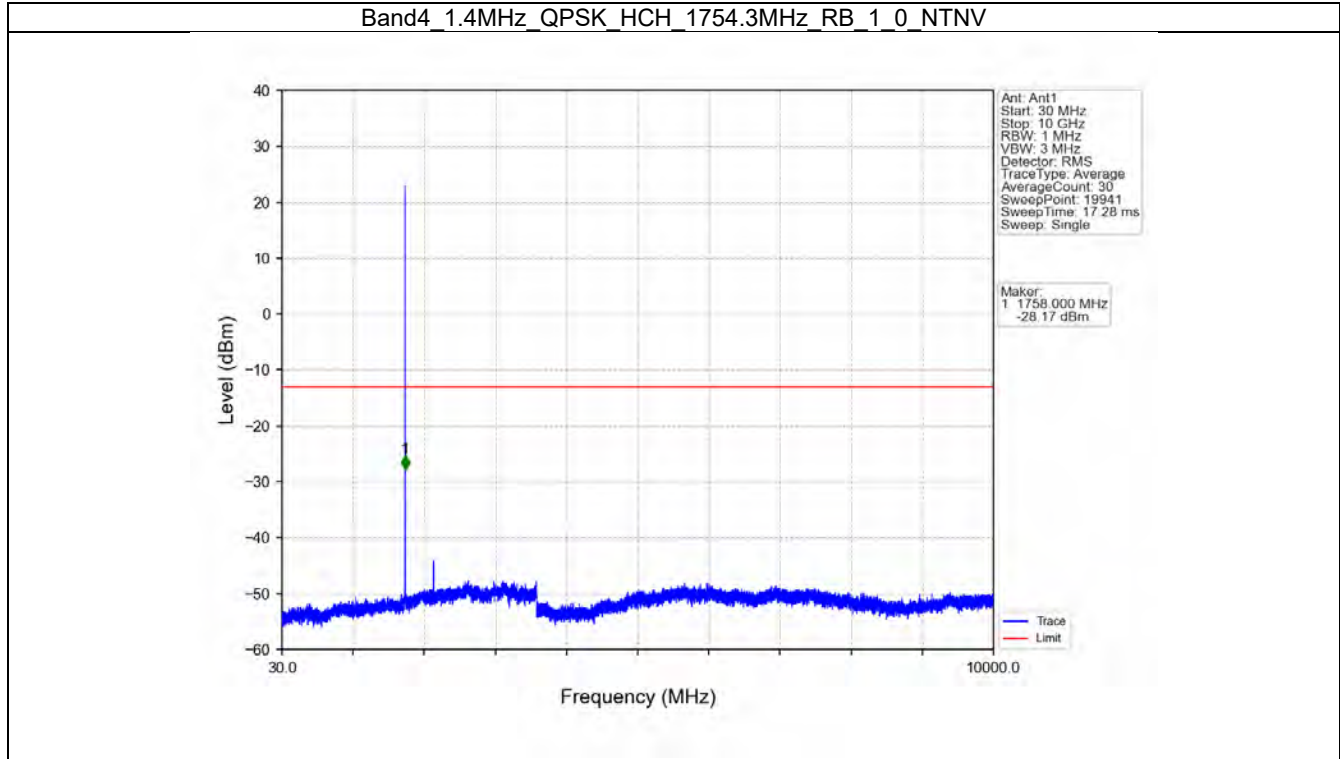
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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgs.com.cn  
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



**SGS-CSTC Standards Technical Services Co., Ltd.**  
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