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Appendix B.9

LTE Band 13



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1. Effective (Isotropic) Radiated Power Output Data

1.1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.82	24.95	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.78	24.91	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.59	24.72	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.83	23.96	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.86	24.99	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.67	24.8	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.68	24.81	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.8	23.93	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.64	24.77	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.79	24.92	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.8	24.93	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.72	23.85	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.84	23.97	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.92	24.05	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.08	24.21	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.84	22.97	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.02	24.15	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.82	23.95	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.77	23.9	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.81	22.94	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.89	24.02	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.8	23.93	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.83	23.96	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.74	22.87	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.01	23.14	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.13	23.26	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.97	23.1	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.87	22	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.17	23.3	34.77	PASS



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Band13	5MHz	64QAM	23230	1RB#12	22.03	23.16	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.76	22.89	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.79	21.92	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.95	23.08	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.99	23.12	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.91	23.04	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.76	21.89	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	18.64	19.77	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	18.97	20.1	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	18.82	19.95	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	18.78	19.91	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	18.78	19.91	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	18.96	20.09	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	18.84	19.97	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	18.82	19.95	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	18.74	19.87	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	18.87	20	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	18.94	20.07	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	18.64	19.77	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.78	24.91	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.81	24.94	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.68	24.81	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.77	23.9	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.86	23.99	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.93	24.06	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.9	24.03	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.97	23.1	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.92	23.05	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.99	23.12	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.91	23.04	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.9	22.03	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	18.82	19.95	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	18.95	20.08	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	18.75	19.88	34.77	PASS



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Band13	10MHz	256QAM	23230	50RB#0	18.79	19.92	34.77	PASS
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2. Frequency Stability

2.2 B13_10MHz

2.2.1 Test Result

Band: 13 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	3.135	1.704	0.0022	/	Pass
					3.7	1.828	0.0023	/	Pass
					4.4	2.149	0.0027	/	Pass
				-30	3.7	1.869	0.0024	/	Pass
				-20	3.7	2.544	0.0033	/	Pass
				-10	3.7	1.777	0.0023	/	Pass
				0	3.7	1.912	0.0024	/	Pass
				10	3.7	0.798	0.0010	/	Pass
				30	3.7	0.528	0.0007	/	Pass
				40	3.7	1.497	0.0019	/	Pass
				50	3.7	1.206	0.0015	/	Pass



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3. Field Strength of Spurious Radiation

For report SUCR240400009001:

Test Band = LTE_B13_5M

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	58.94	-53.56	25.89	-63.99	-13.00	50.99	Horizontal
2	1563.5	54.48	-53.55	25.87	-68.46	-40.00	28.46	Horizontal
3	2332	60.21	-52.14	27.79	-59.40	-13.00	46.40	Horizontal
4	4858.5	51.55	-44.87	32.85	-55.73	-13.00	42.73	Horizontal
5	7893	49.60	-41.74	37.36	-50.04	-13.00	37.04	Horizontal
6	9909.5	46.06	-38.82	39.04	-48.98	-13.00	35.98	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1135.5	54.89	-53.74	25.87	-68.24	-13.00	55.24	Vertical
2	1596	54.97	-53.53	25.81	-68.01	-40.00	28.01	Vertical
3	2286	53.69	-52.37	27.57	-66.37	-13.00	53.37	Vertical
4	3303.5	52.45	-49.79	30.63	-61.97	-13.00	48.97	Vertical
5	4804	51.67	-44.46	32.43	-55.62	-13.00	42.62	Vertical
6	8549	48.85	-40.77	39.08	-48.10	-13.00	35.10	Vertical



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Test Band = LTE_B13_5M

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	60.15	-53.55	25.88	-62.78	-40.00	22.78	Horizontal
2	2339.5	60.74	-52.11	27.84	-58.79	-13.00	45.79	Horizontal
3	3181	52.80	-50.31	30.36	-62.41	-13.00	49.41	Horizontal
4	5283.5	51.23	-45.34	33.27	-56.10	-13.00	43.10	Horizontal
5	8074.5	49.52	-41.35	37.55	-49.54	-13.00	36.54	Horizontal
6	9520	49.24	-39.31	39.16	-46.17	-13.00	33.17	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	54.78	-53.55	25.88	-68.15	-40.00	28.15	Vertical
2	1765.5	55.11	-53.19	25.56	-67.78	-13.00	54.78	Vertical
3	2339.5	56.44	-52.11	27.84	-63.09	-13.00	50.09	Vertical
4	3823	52.03	-48.28	30.45	-61.06	-13.00	48.06	Vertical
5	5883.5	50.62	-44.48	34.23	-54.89	-13.00	41.89	Vertical
6	9520	49.51	-39.31	39.16	-45.90	-13.00	32.90	Vertical



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Test Band = LTE_B13_5M

Test Channel = HCH

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1119.5	61.84	-53.95	25.84	-61.53	-13.00	48.53	Horizontal
2	1564.5	60.93	-53.55	25.87	-62.01	-40.00	22.01	Horizontal
3	2347	62.81	-52.07	27.88	-56.64	-13.00	43.64	Horizontal
4	3332	52.59	-50.06	30.06	-62.67	-13.00	49.67	Horizontal
5	5686.5	50.96	-44.31	33.45	-55.16	-13.00	42.16	Horizontal
6	8540.5	48.96	-40.84	38.87	-48.27	-13.00	35.27	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1605.5	54.41	-53.48	25.81	-68.52	-40.00	28.52	Vertical
2	2135	53.90	-52.63	27.43	-66.56	-13.00	53.56	Vertical
3	3126.5	52.67	-50.30	30.21	-62.68	-13.00	49.68	Vertical
4	4675.5	51.66	-45.57	31.90	-57.27	-13.00	44.27	Vertical
5	6234	50.58	-44.28	34.34	-54.62	-13.00	41.62	Vertical
6	7893.5	49.50	-41.73	37.36	-50.13	-13.00	37.13	Vertical



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Test Band = LTE_B13_10M
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.5	58.26	-53.56	25.89	-64.67	-13.00	51.67	Horizontal
2	1579.5	54.69	-53.54	25.84	-68.27	-40.00	28.27	Horizontal
3	1770	60.96	-53.17	25.58	-61.89	-13.00	48.89	Horizontal
4	2333	60.17	-52.13	27.80	-59.42	-13.00	46.42	Horizontal
5	3226.5	53.04	-50.28	30.51	-61.99	-13.00	48.99	Horizontal
6	8063	49.04	-41.22	37.57	-49.87	-13.00	36.87	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1584	54.26	-53.54	25.83	-68.71	-40.00	28.71	Vertical
2	1773.5	61.23	-53.15	25.59	-61.59	-13.00	48.59	Vertical
3	2408	54.01	-52.15	27.82	-65.58	-13.00	52.58	Vertical
4	3987	52.13	-48.16	31.05	-60.24	-13.00	47.24	Vertical
5	6240	50.65	-44.31	34.36	-54.56	-13.00	41.56	Vertical
6	8899	48.22	-40.39	38.31	-49.12	-13.00	36.12	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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For report SUCR240400008901:

Test Band = LTE_13_10MHz_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1112	49.40	-47.22	24.35	-68.73	-13.00	55.73	Horizontal
2	1596.5	46.93	-46.95	25.04	-70.24	-40.00	30.24	Horizontal
3	2695.5	46.50	-45.30	27.99	-66.07	-13.00	53.07	Horizontal
4	4795	45.27	-42.83	30.77	-62.05	-13.00	49.05	Horizontal
5	7424	42.77	-37.97	36.75	-53.71	-13.00	40.71	Horizontal
6	9984	41.75	-35.01	38.68	-49.84	-13.00	36.84	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1153	49.57	-47.36	24.51	-68.54	-13.00	55.54	Vertical
2	1585	47.60	-46.92	24.83	-69.75	-40.00	29.75	Vertical
3	2822	46.35	-45.20	28.30	-65.81	-13.00	52.81	Vertical
4	4665.5	47.01	-43.04	30.32	-60.97	-13.00	47.97	Vertical
5	6591	43.83	-39.53	34.75	-56.21	-13.00	43.21	Vertical
6	9350	42.09	-35.20	37.40	-50.97	-13.00	37.97	Vertical



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Test Band = LTE_13_5MHz_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1149.5	48.64	-47.36	24.50	-69.48	-13.00	56.48	Horizontal
2	1609.5	46.80	-46.94	25.18	-70.22	-40.00	30.22	Horizontal
3	2347	46.60	-46.03	27.57	-67.12	-13.00	54.12	Horizontal
4	3270	46.69	-44.56	28.56	-64.57	-13.00	51.57	Horizontal
5	5896	44.72	-40.99	32.78	-58.75	-13.00	45.75	Horizontal
6	9342.5	41.88	-35.22	37.36	-51.24	-13.00	38.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1159.5	50.27	-47.37	24.52	-67.84	-13.00	54.84	Vertical
2	1609	46.74	-46.94	25.17	-70.29	-40.00	30.29	Vertical
3	2567	46.90	-45.48	27.83	-66.01	-13.00	53.01	Vertical
4	4664	46.92	-43.04	30.31	-61.07	-13.00	48.07	Vertical
5	6846.5	43.80	-39.34	35.59	-55.21	-13.00	42.21	Vertical
6	9810	41.15	-34.82	38.44	-50.49	-13.00	37.49	Vertical



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Test Band = LTE_13_5MHz_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1109	48.81	-47.21	24.34	-69.32	-13.00	56.32	Horizontal
2	1586	47.29	-46.92	24.85	-70.04	-40.00	30.04	Horizontal
3	2912.5	46.52	-45.38	28.15	-65.97	-13.00	52.97	Horizontal
4	5311	45.12	-41.93	31.97	-60.10	-13.00	47.10	Horizontal
5	7398.5	43.10	-38.24	36.69	-53.71	-13.00	40.71	Horizontal
6	9353.5	41.77	-35.21	37.39	-51.31	-13.00	38.31	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1153	49.29	-47.36	24.51	-68.82	-13.00	55.82	Vertical
2	1597	46.87	-46.95	25.05	-70.29	-40.00	30.29	Vertical
3	2201.5	46.57	-46.32	26.90	-68.11	-13.00	55.11	Vertical
4	3667	46.26	-44.64	29.30	-64.34	-13.00	51.34	Vertical
5	5604	44.83	-41.42	32.59	-59.26	-13.00	46.26	Vertical
6	9462	42.06	-35.06	37.57	-50.69	-13.00	37.69	Vertical



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Test Band = LTE_13_5MHz_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1112.5	49.43	-47.23	24.35	-68.71	-13.00	55.71	Horizontal
2	1599.5	47.02	-46.96	25.09	-70.11	-40.00	30.11	Horizontal
3	2580	46.91	-45.51	27.86	-66.00	-13.00	53.00	Horizontal
4	4400.5	45.67	-43.22	30.10	-62.71	-13.00	49.71	Horizontal
5	7187.5	43.24	-38.46	36.55	-53.93	-13.00	40.93	Horizontal
6	9782	41.50	-35.00	38.43	-50.33	-13.00	37.33	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1155	50.15	-47.37	24.51	-67.97	-13.00	54.97	Vertical
2	1596.5	47.13	-46.95	25.04	-70.04	-40.00	30.04	Vertical
3	2294	46.95	-45.98	27.06	-67.23	-13.00	54.23	Vertical
4	4694	47.22	-43.12	30.55	-60.61	-13.00	47.61	Vertical
5	6735	44.32	-39.40	35.17	-55.17	-13.00	42.17	Vertical
6	9781	41.71	-35.02	38.42	-50.15	-13.00	37.15	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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4. 99% & 26dB Bandwidth

4.1 Band13_OBW

4.1.1 Test Result

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.555	/	Pass
		782	25	0	4.596	/	Pass
		784.5	25	0	4.571	/	Pass
	16QAM	779.5	25	0	4.545	/	Pass
		782	25	0	4.577	/	Pass
		784.5	25	0	4.562	/	Pass
	64QAM	779.5	25	0	4.544	/	Pass
		782	25	0	4.582	/	Pass
		784.5	25	0	4.572	/	Pass
	256QAM	779.5	25	0	4.533	/	Pass
		782	25	0	4.581	/	Pass
		784.5	25	0	4.560	/	Pass
10	QPSK	782	50	0	9.057	/	Pass
	16QAM	782	50	0	9.060	/	Pass
	64QAM	782	50	0	9.068	/	Pass
	256QAM	782	50	0	9.070	/	Pass



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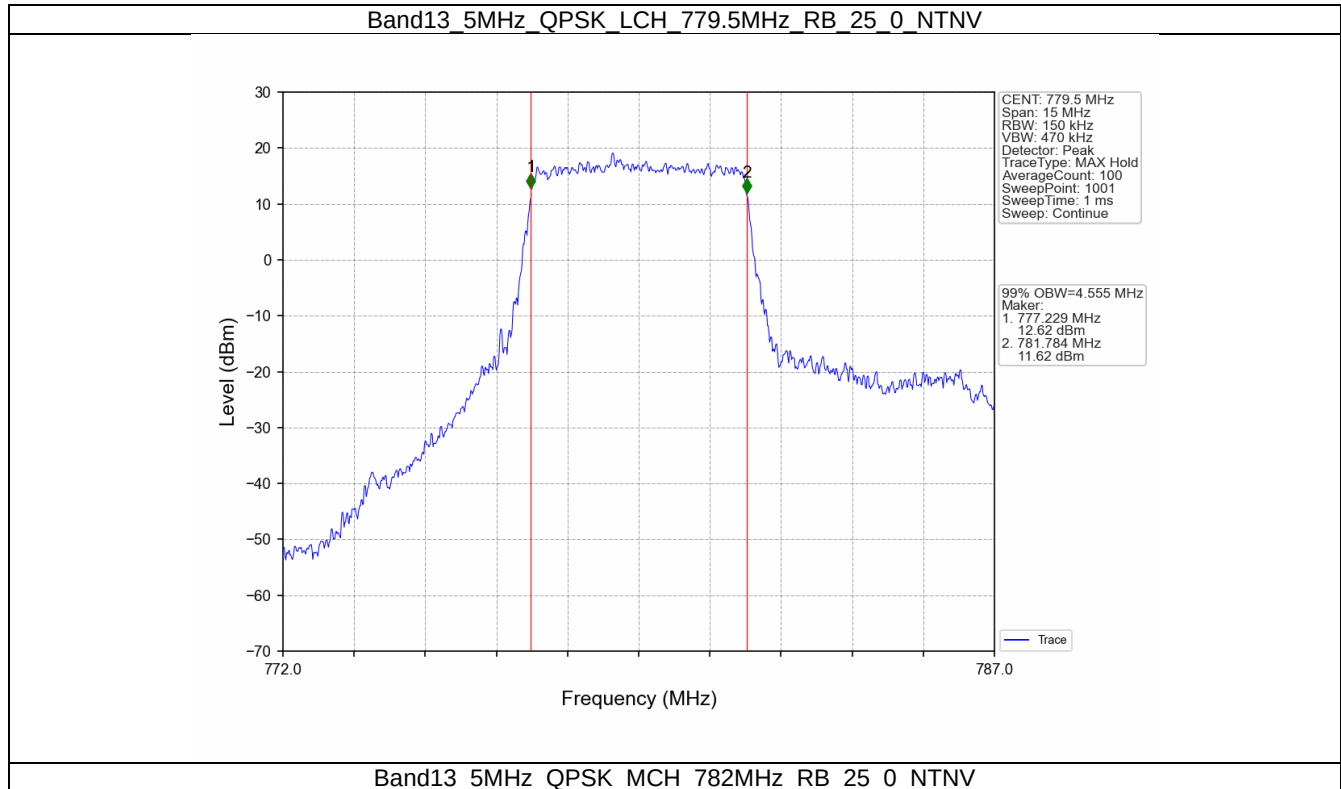
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4.1.2 Test Graph



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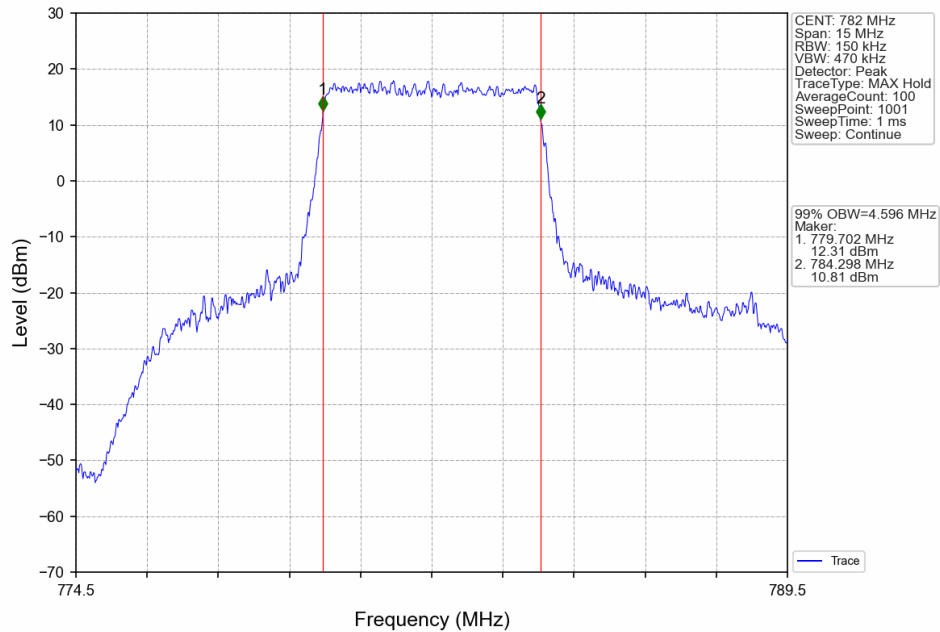
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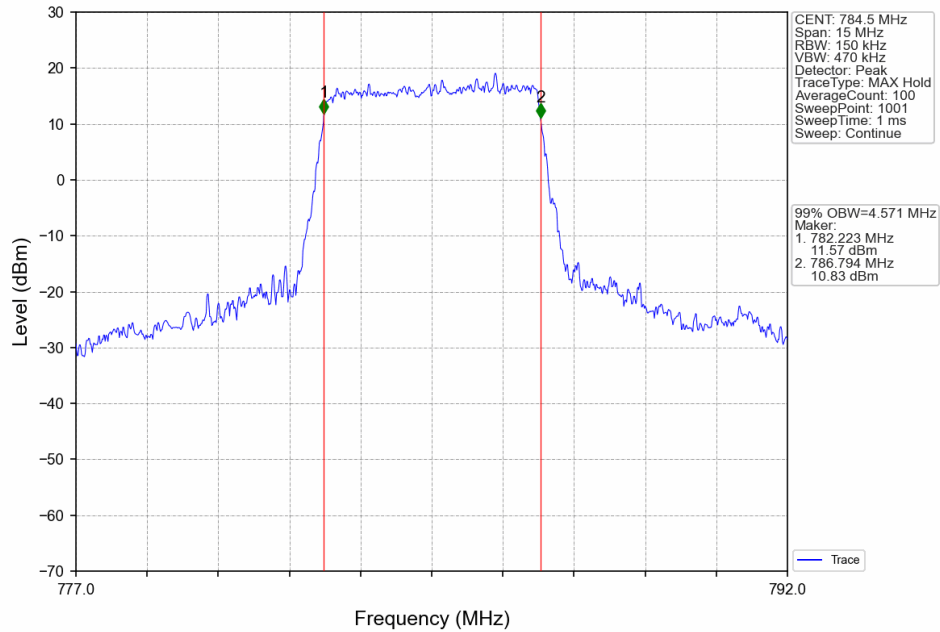
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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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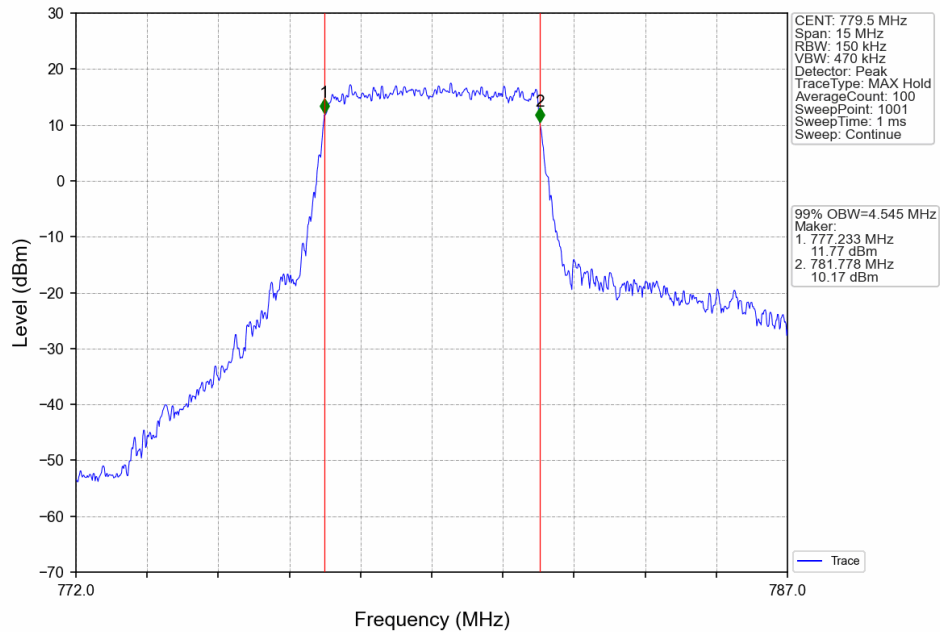
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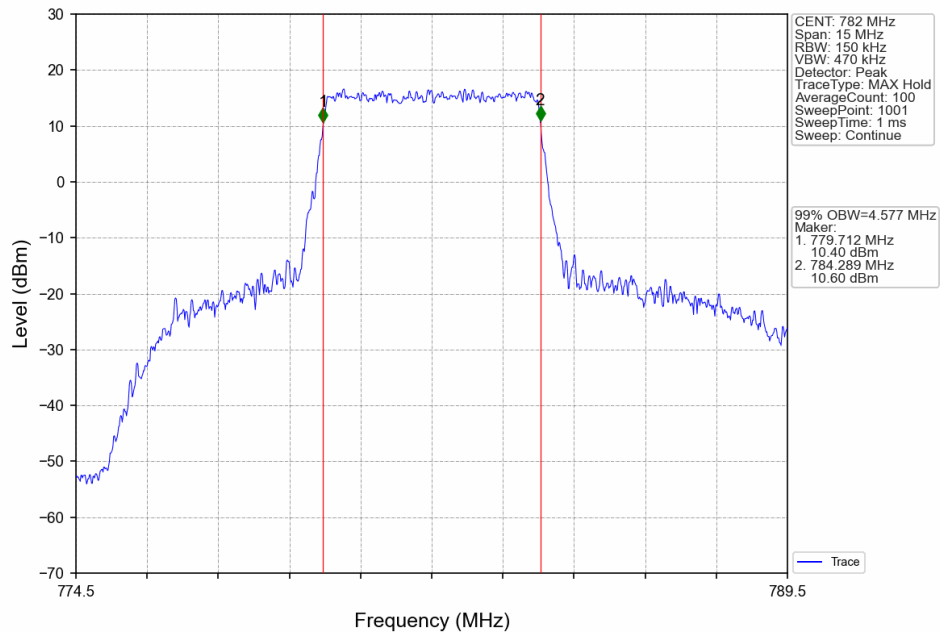
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Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



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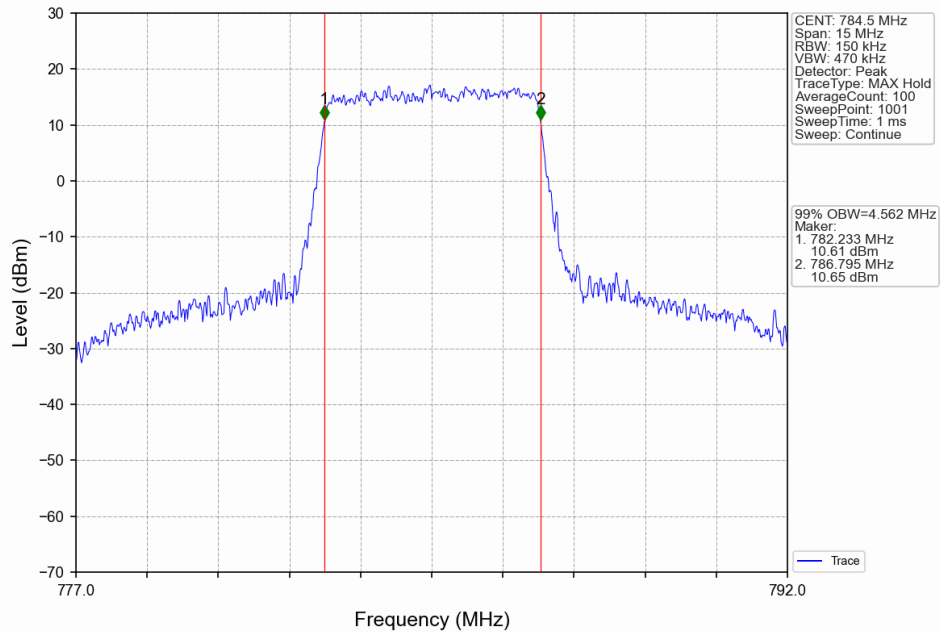
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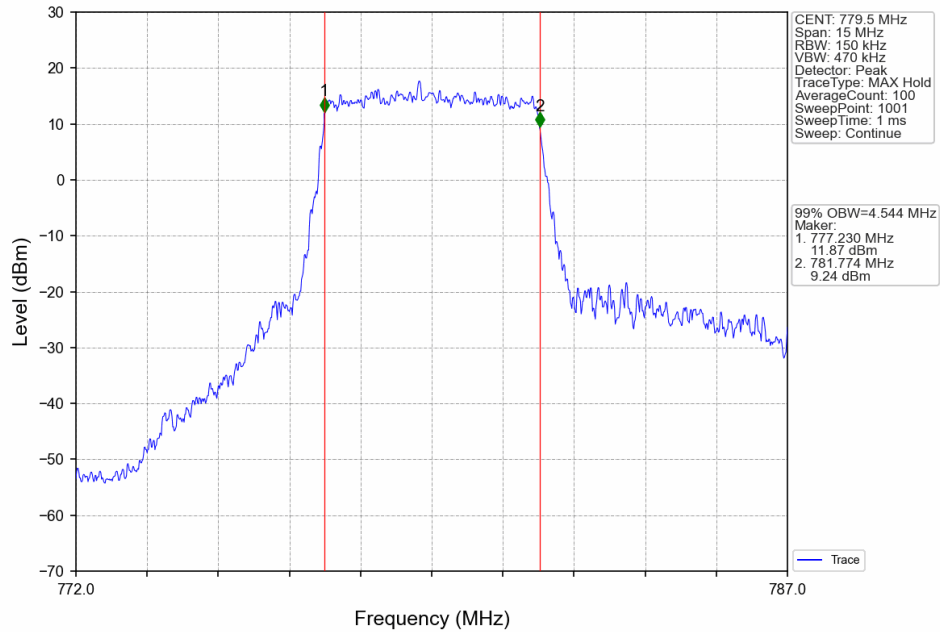
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Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



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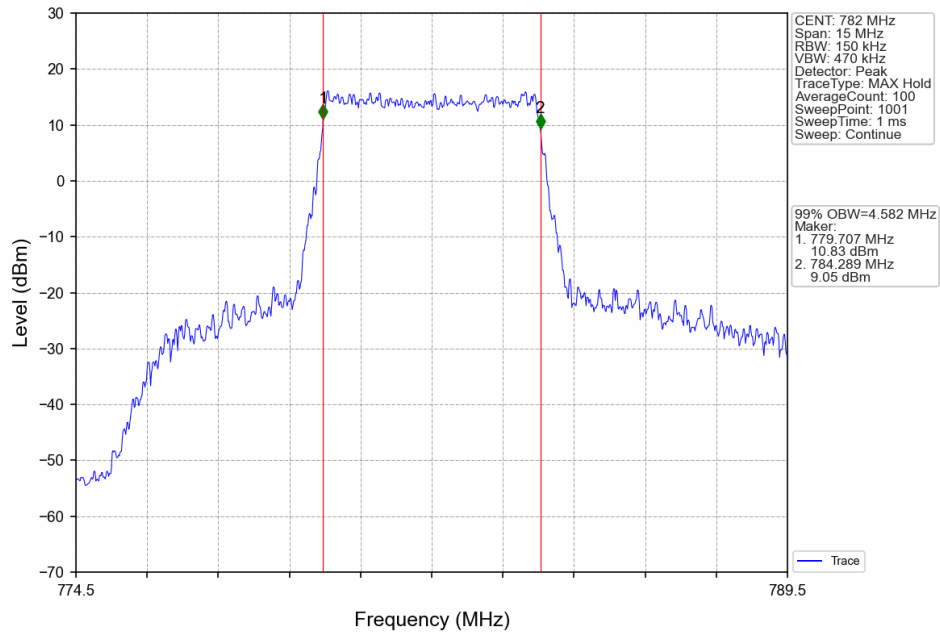
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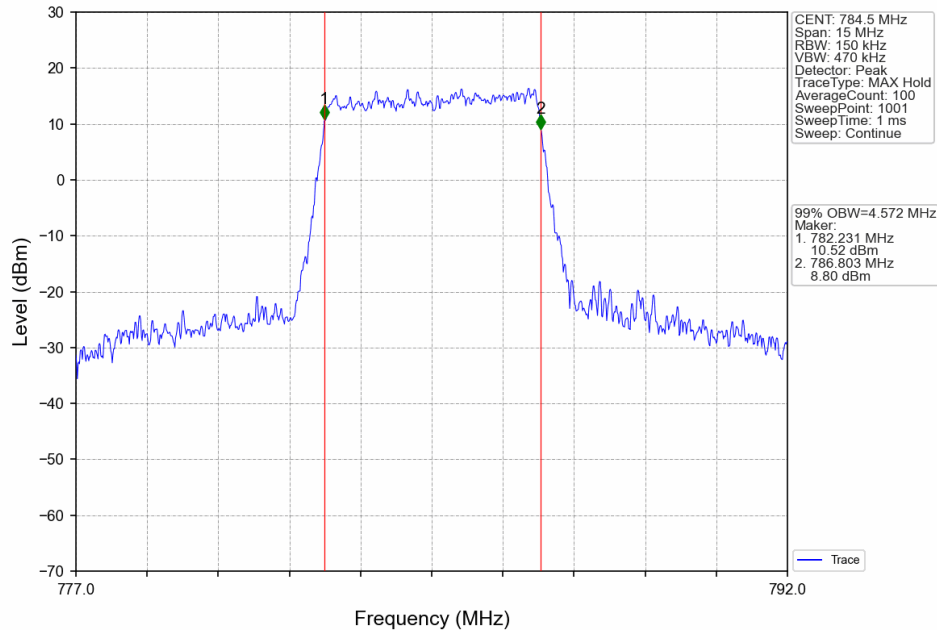
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Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTN



Band13 5MHz 256QAM LCH 779.5MHz RB 25 0 NTN



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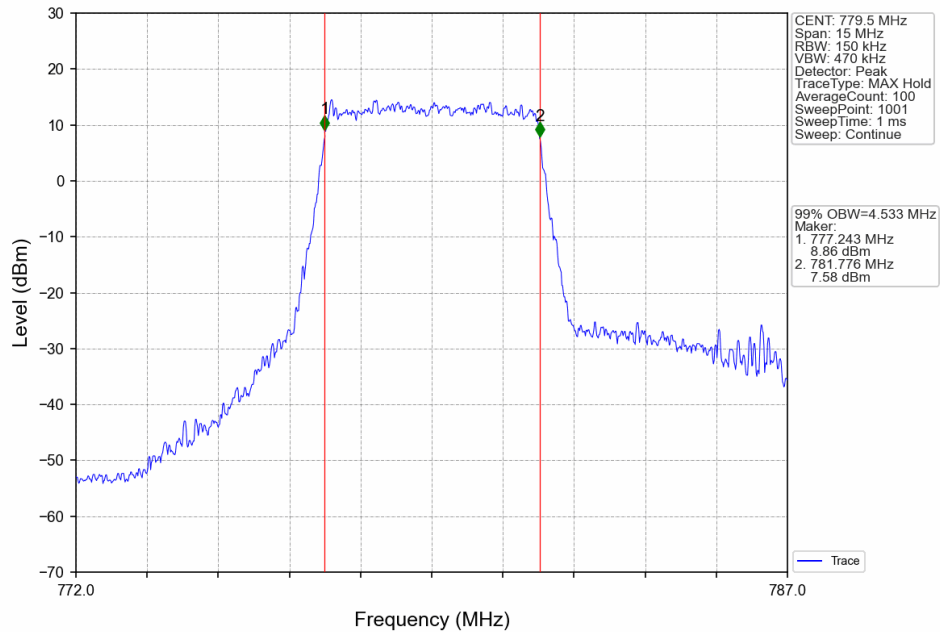
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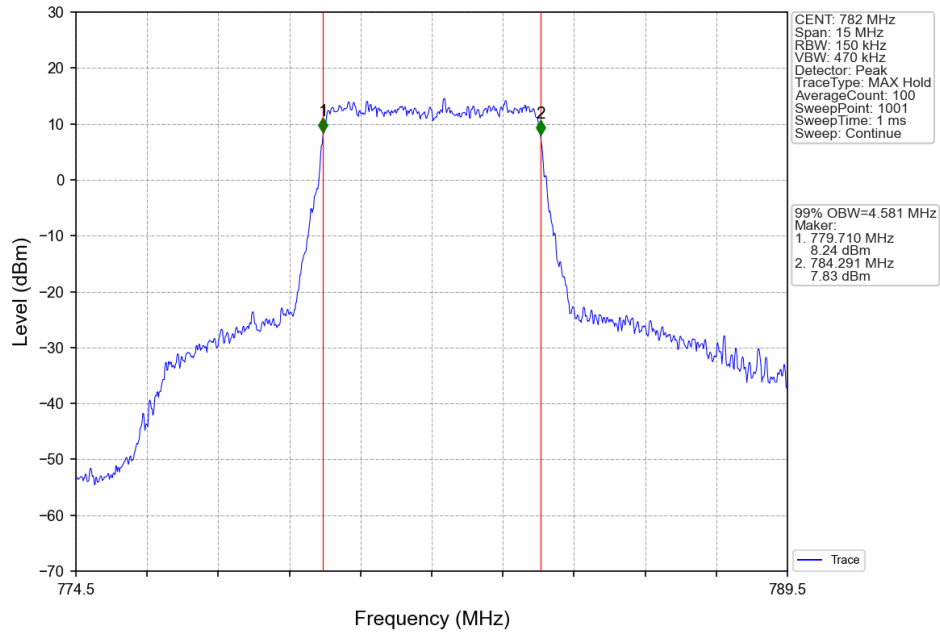
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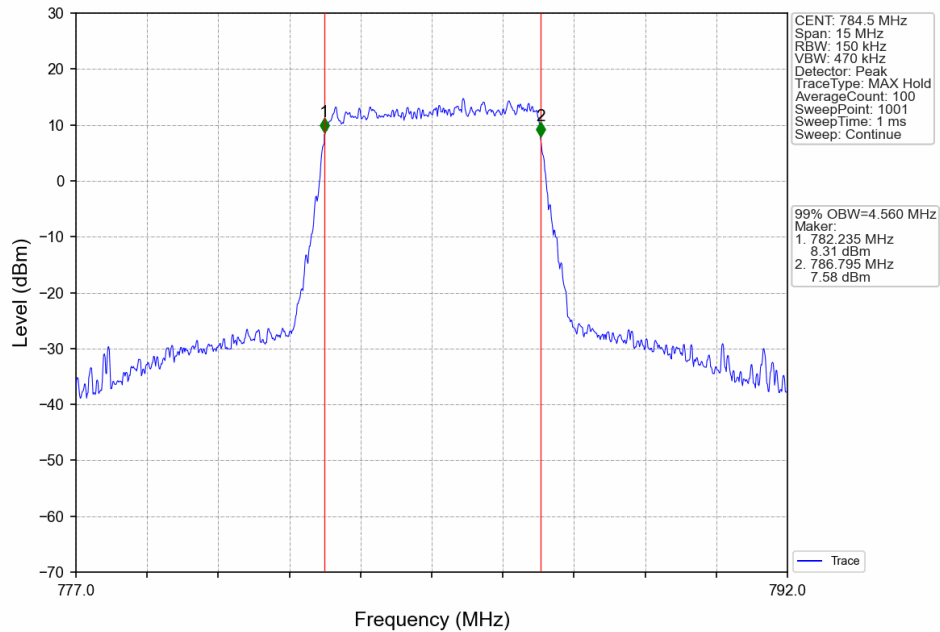
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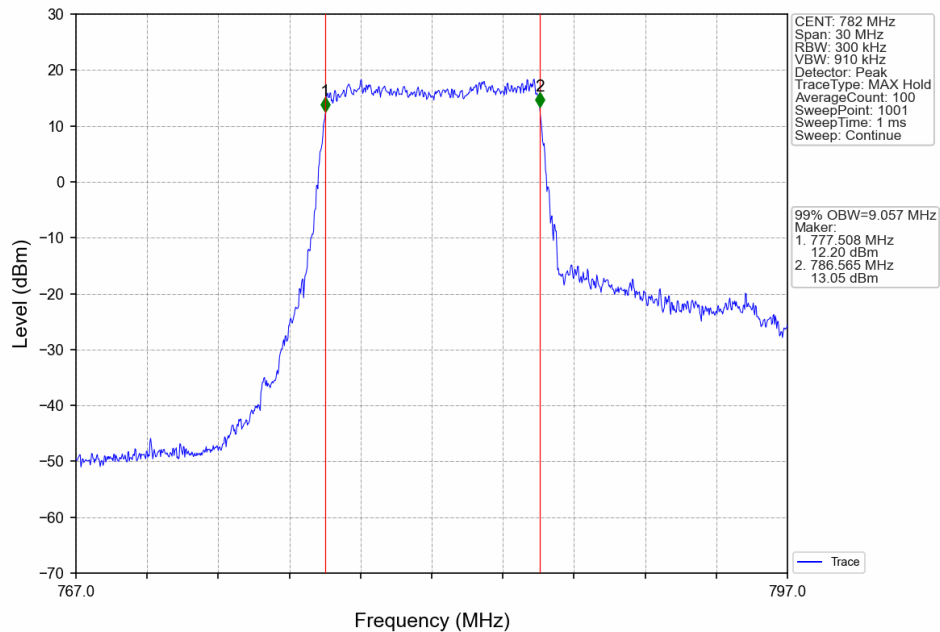
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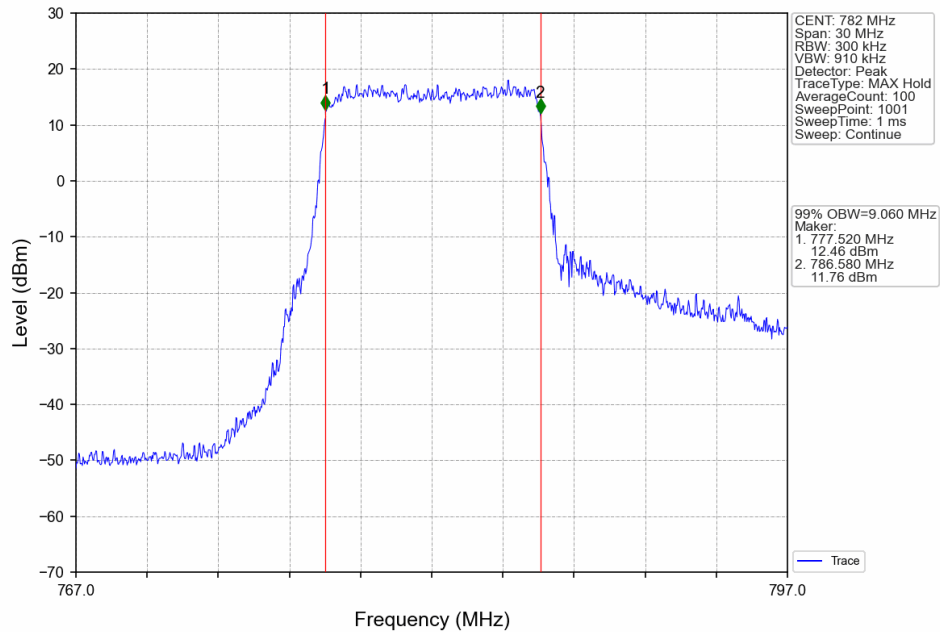
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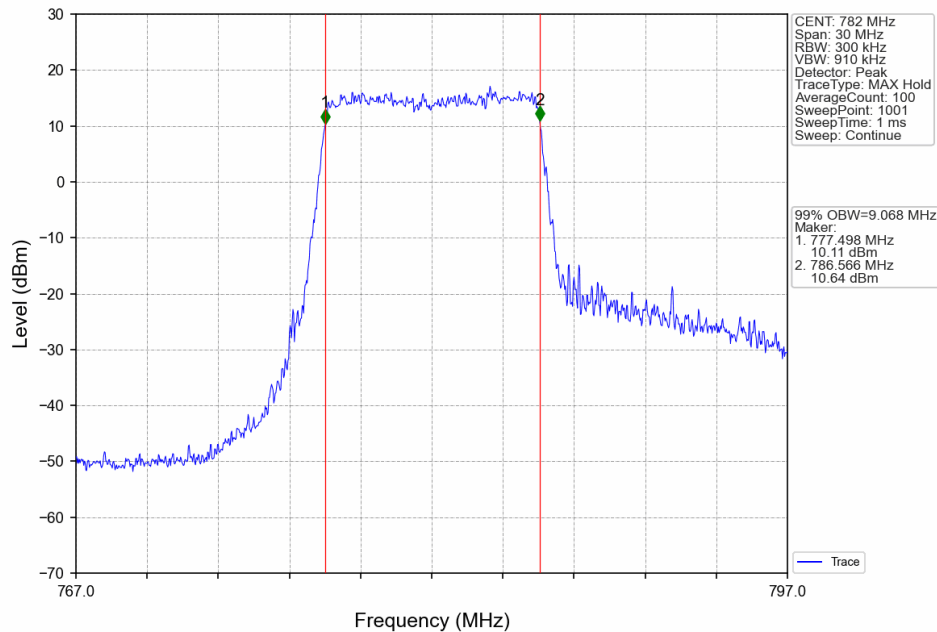
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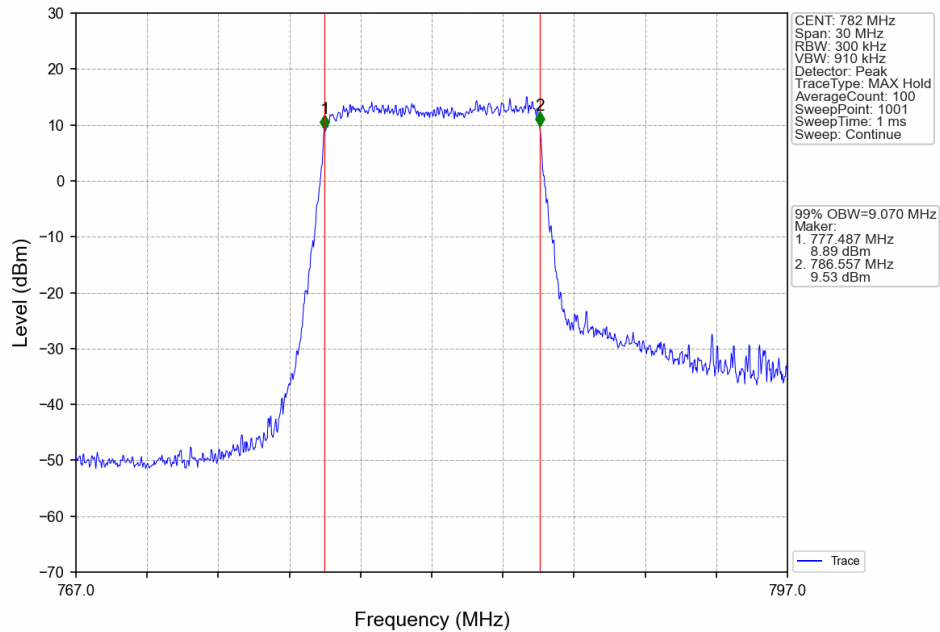
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4.2 Band13_XDB

4.2.1 Test Result

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.160	/	Pass
		782	25	0	5.255	/	Pass
		784.5	25	0	5.214	/	Pass
	16QAM	779.5	25	0	5.220	/	Pass
		782	25	0	5.301	/	Pass
		784.5	25	0	5.265	/	Pass
	64QAM	779.5	25	0	5.173	/	Pass
		782	25	0	5.293	/	Pass
		784.5	25	0	5.203	/	Pass
	256QAM	779.5	25	0	5.228	/	Pass
		782	25	0	5.253	/	Pass
		784.5	25	0	5.210	/	Pass
10	QPSK	782	50	0	10.135	/	Pass
	16QAM	782	50	0	10.230	/	Pass
	64QAM	782	50	0	10.160	/	Pass
	256QAM	782	50	0	10.181	/	Pass



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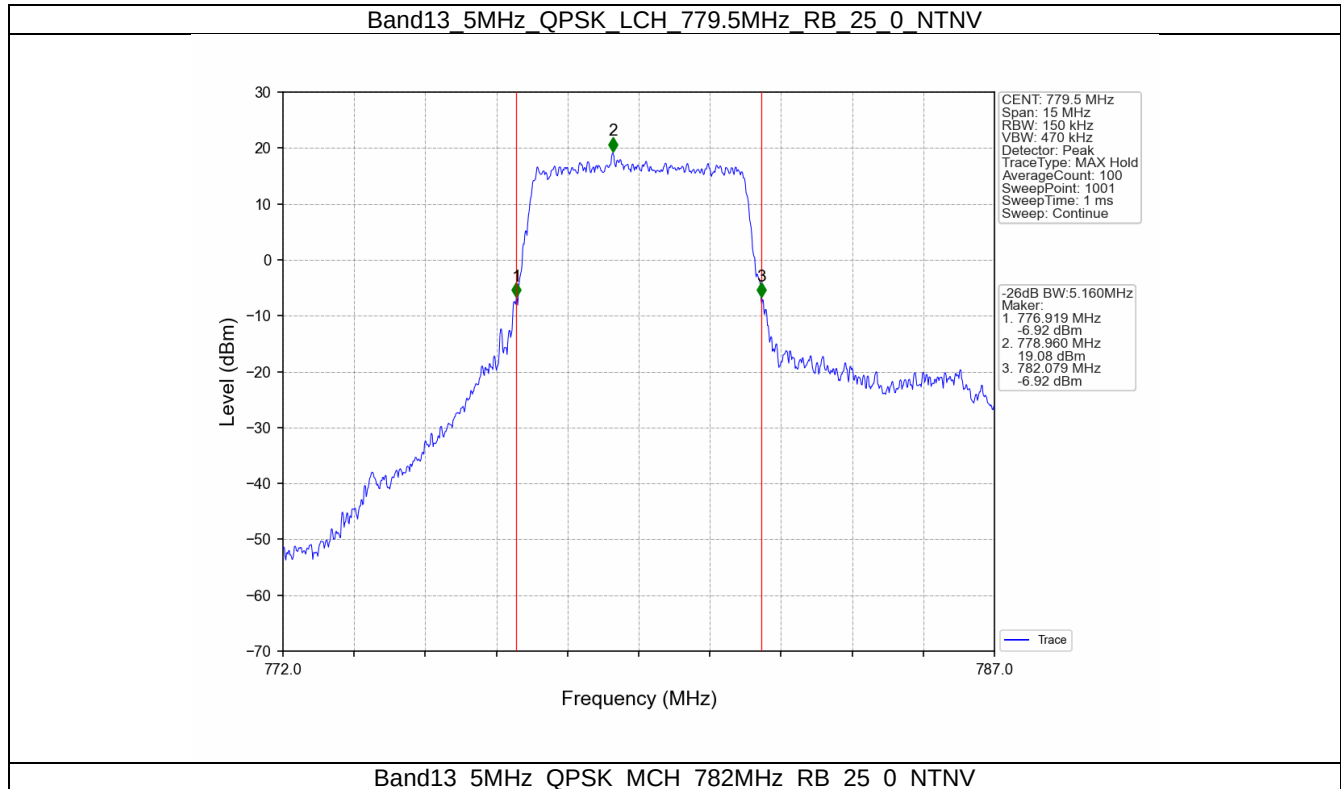
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4.2.2 Test Graph



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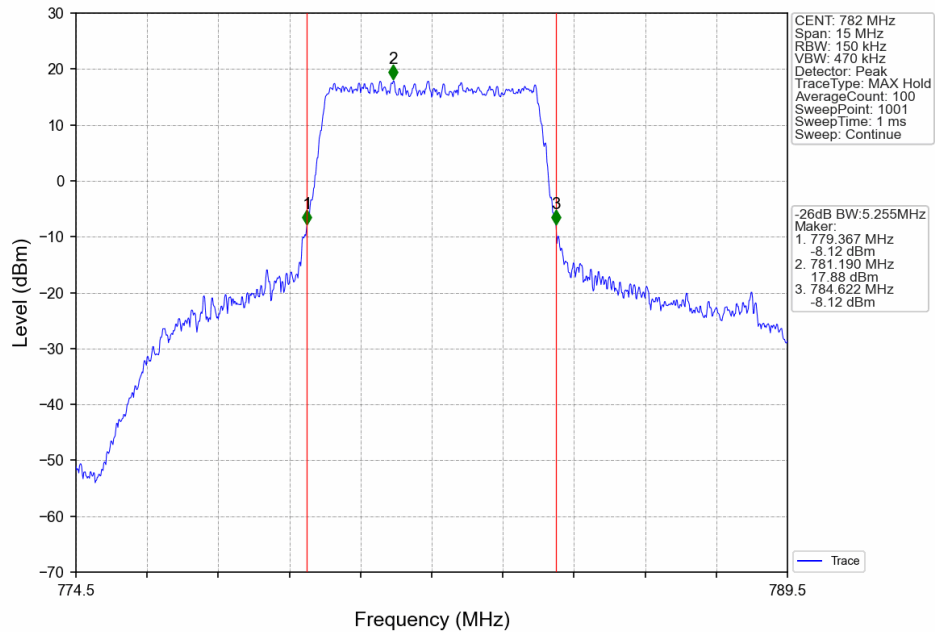
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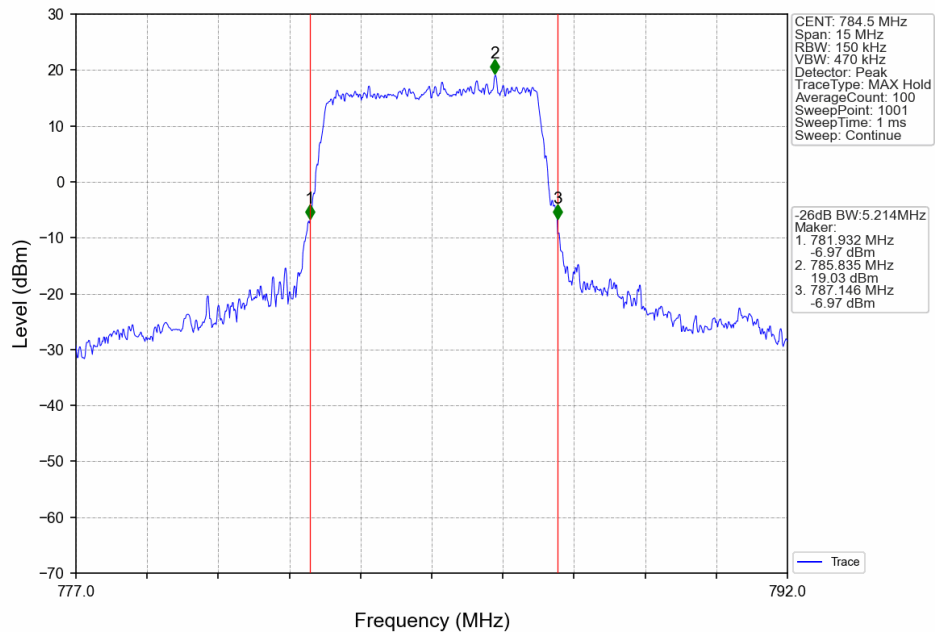
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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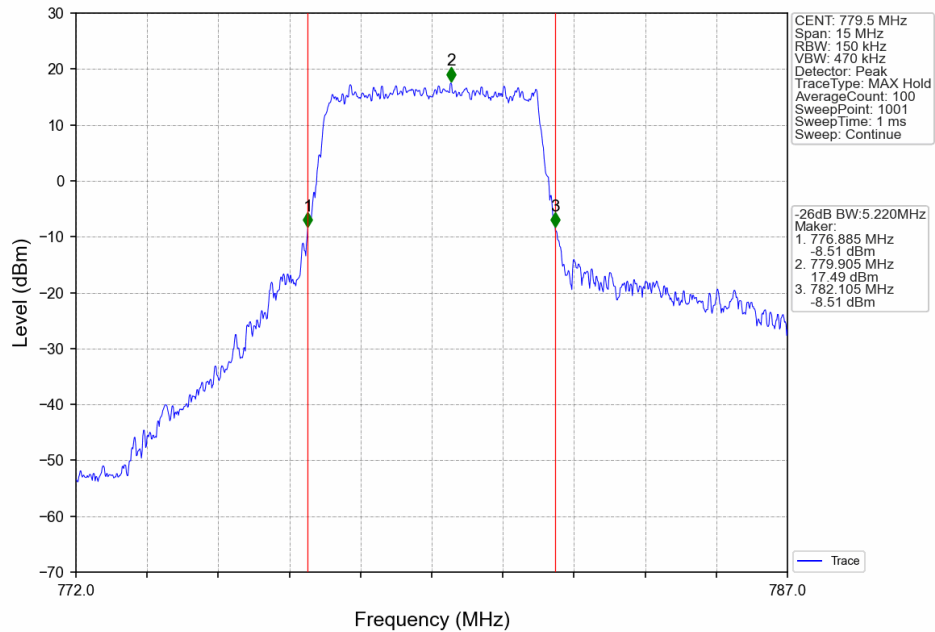
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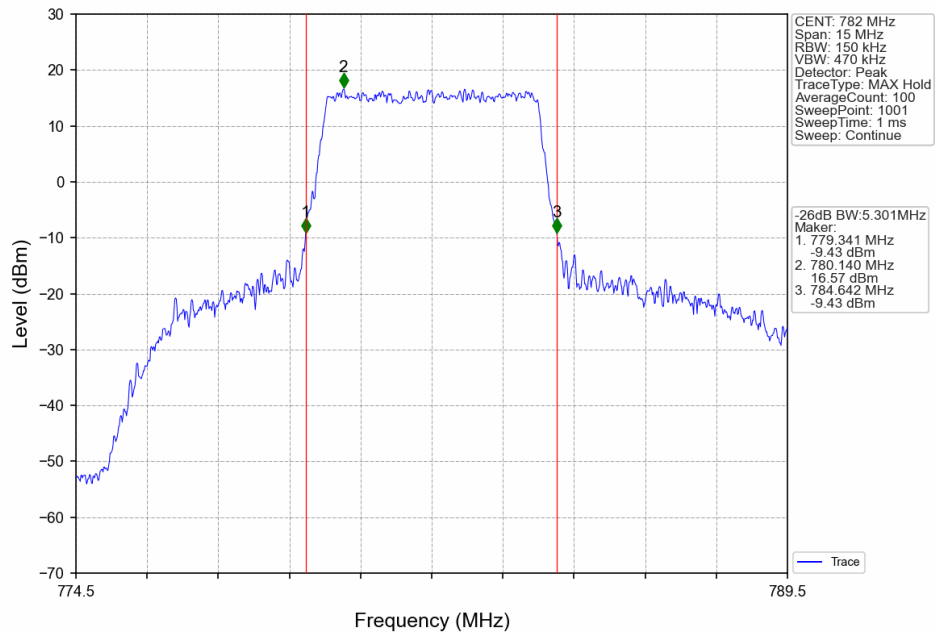
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Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



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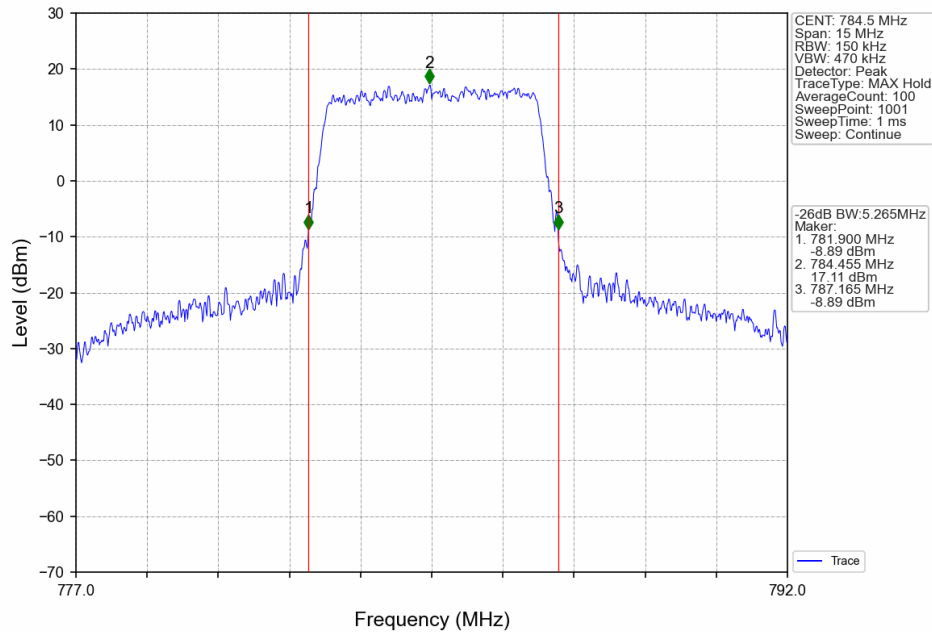
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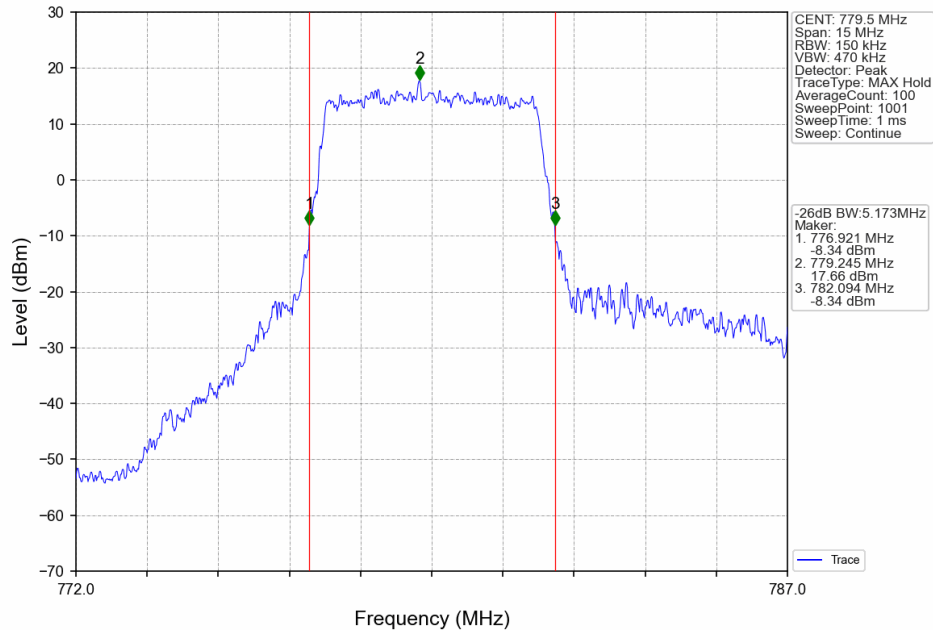
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Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



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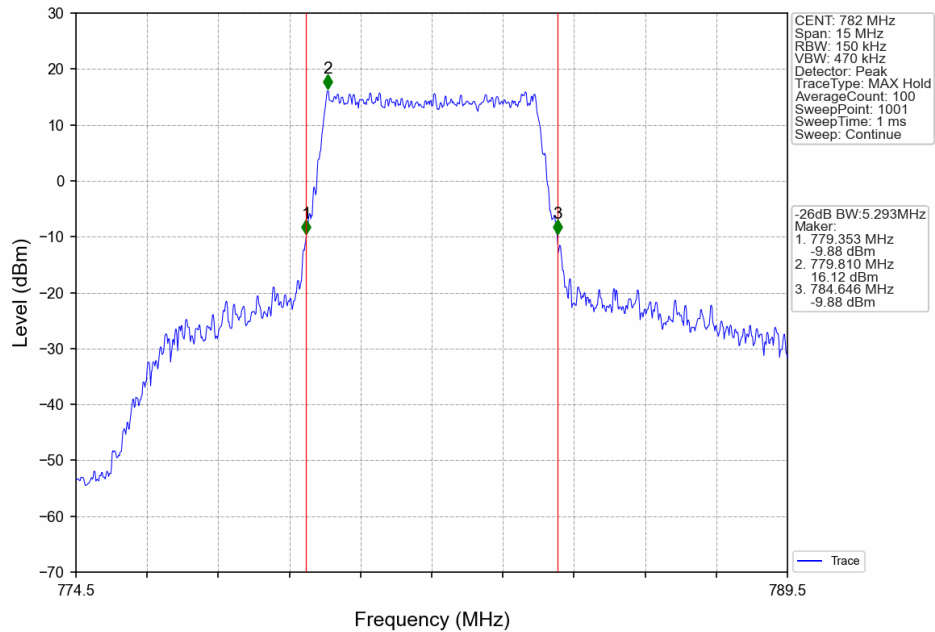
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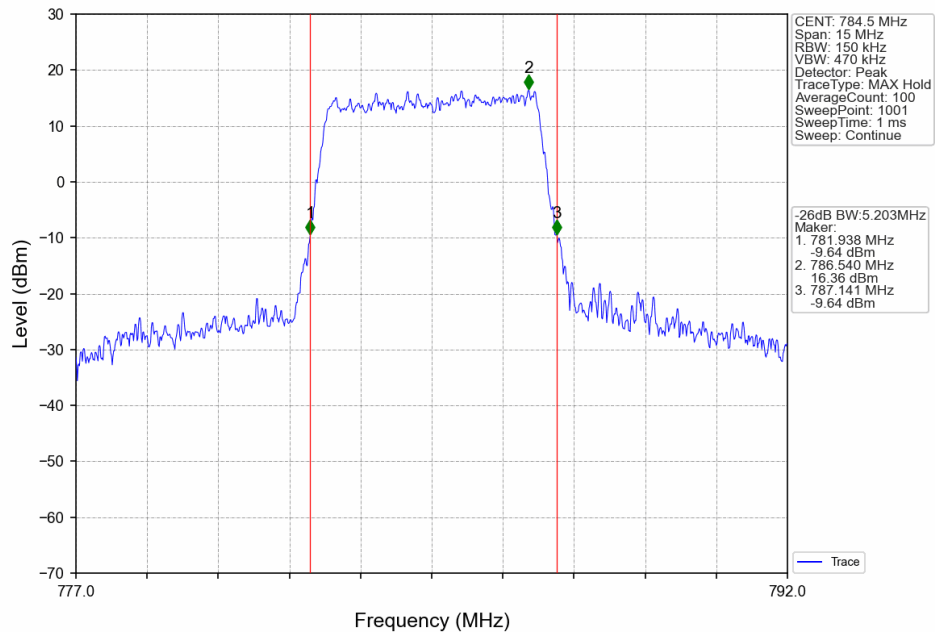
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Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTN



Band13 5MHz 256QAM LCH 779.5MHz RB 25 0 NTN



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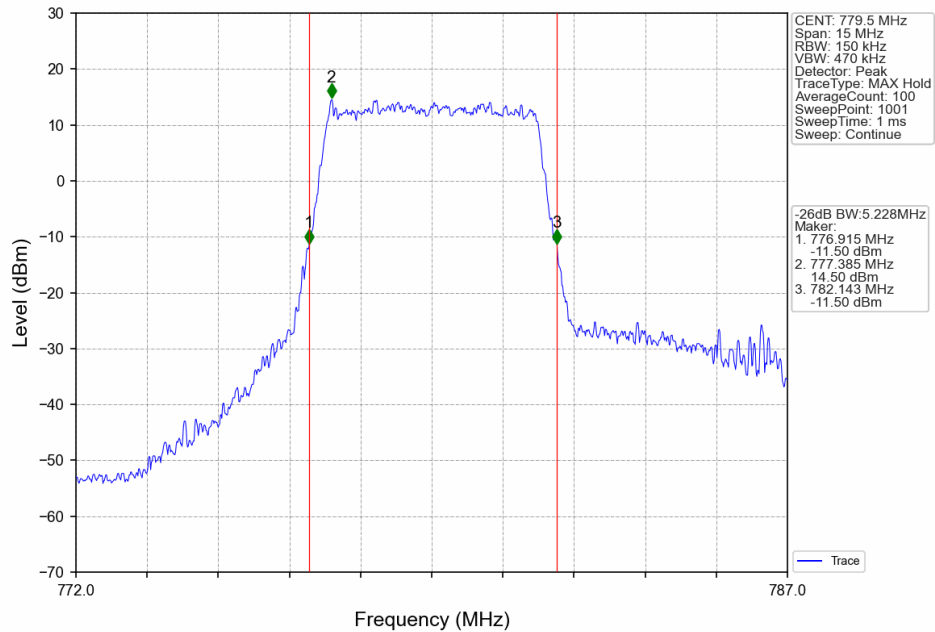
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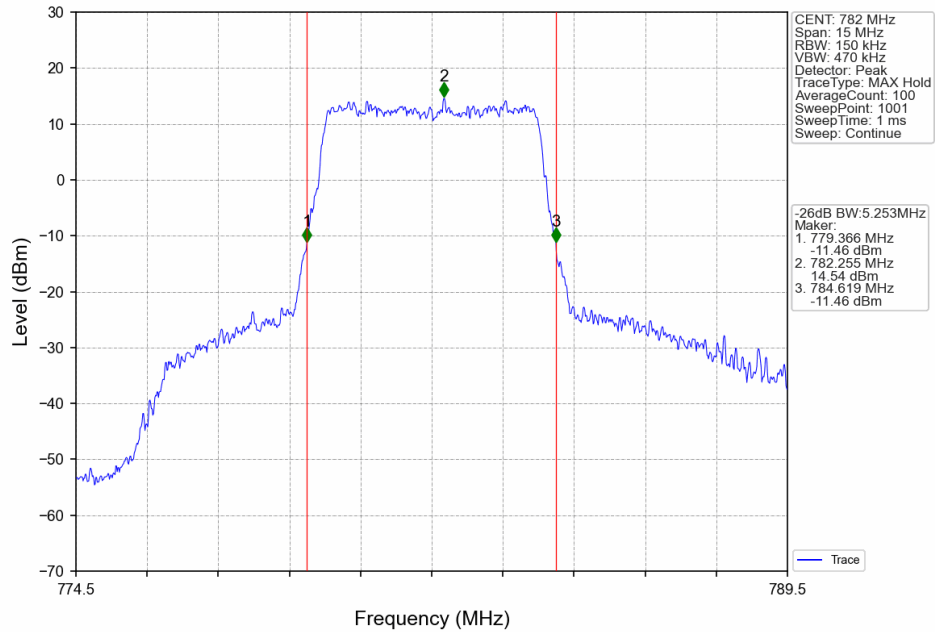
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Band13_5MHz_256QAM_MCH_782MHz_RB_25_0_NTNV



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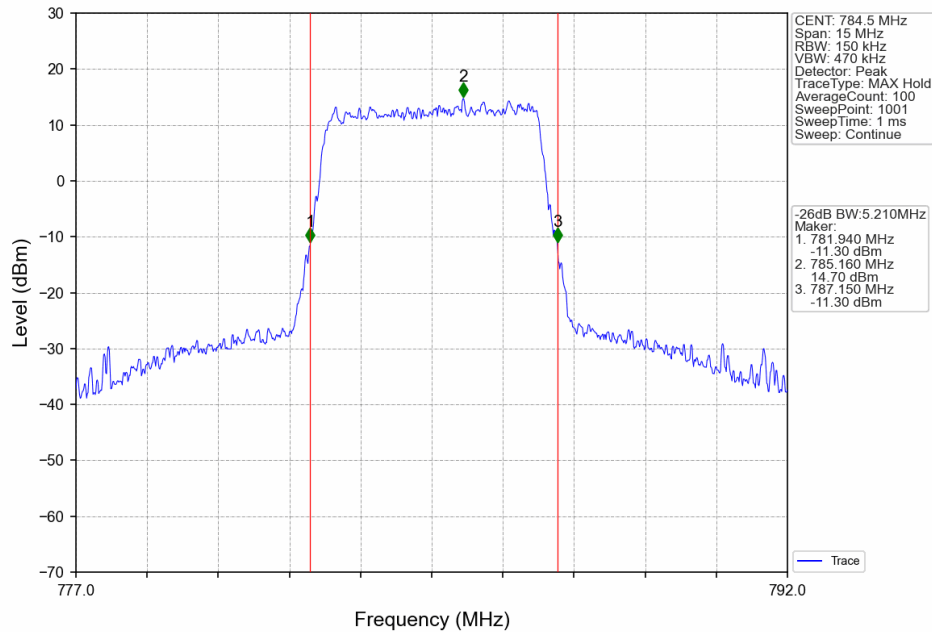
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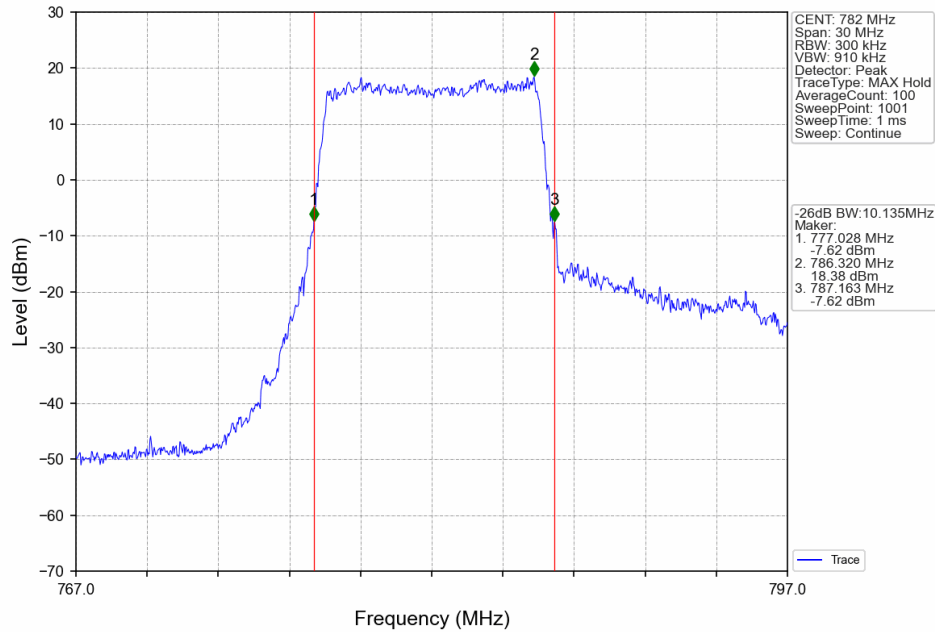
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Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



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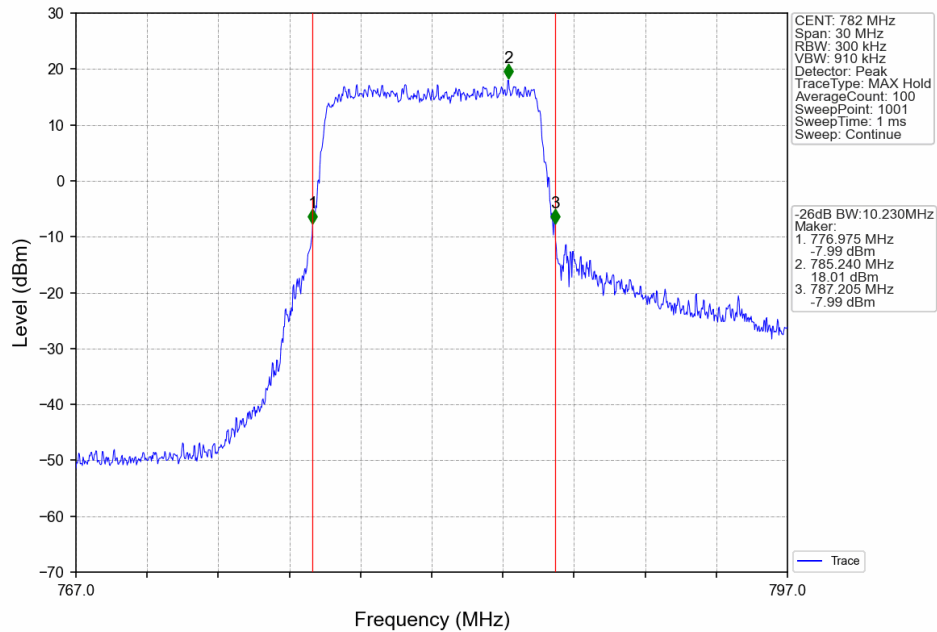
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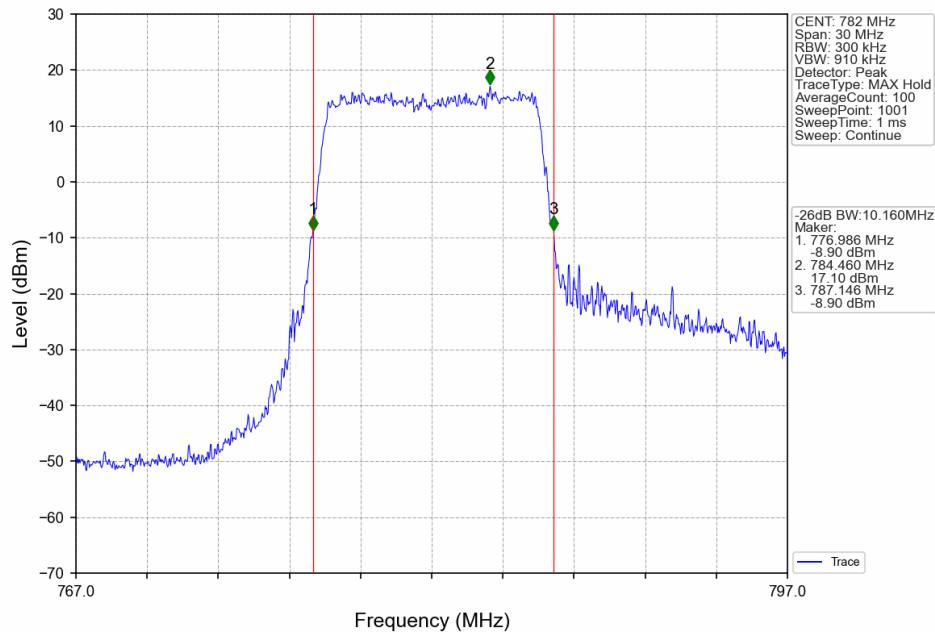
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Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_256QAM_MCH_782MHz_RB_50_0_NTNV



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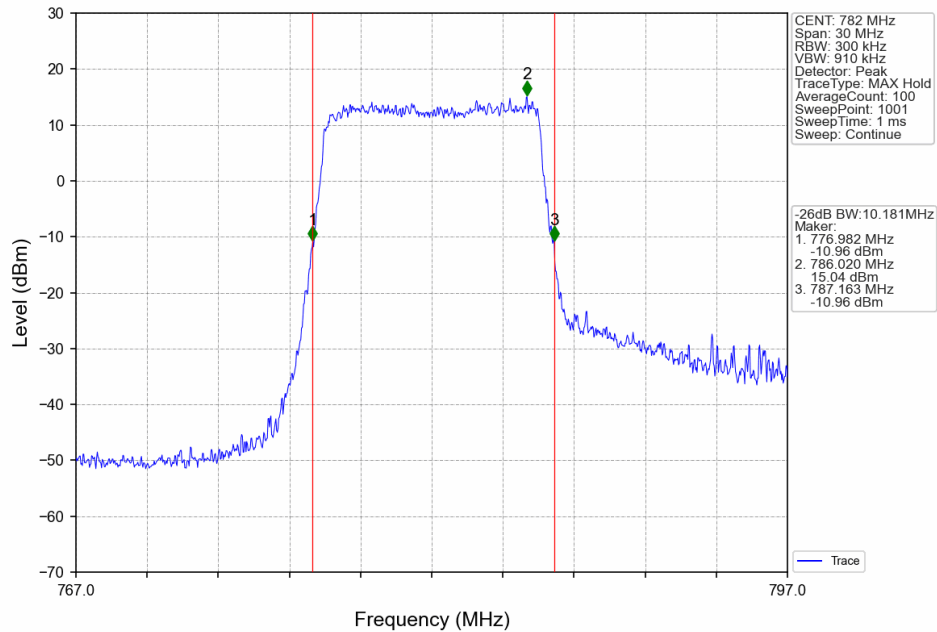
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5. Peak-Average Ratio

5.1 B13_5MHz

5.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.15	<=13	Pass
	782	25	0	5.44	<=13	Pass
	784.5	25	0	5.40	<=13	Pass
16QAM	779.5	25	0	5.95	<=13	Pass
	782	25	0	6.30	<=13	Pass
	784.5	25	0	6.27	<=13	Pass
64QAM	779.5	25	0	10.45	<=13	Pass
	782	25	0	10.81	<=13	Pass
	784.5	25	0	10.70	<=13	Pass
256QAM	779.5	25	0	6.86	<=13	Pass
	782	25	0	7.09	<=13	Pass
	784.5	25	0	6.99	<=13	Pass



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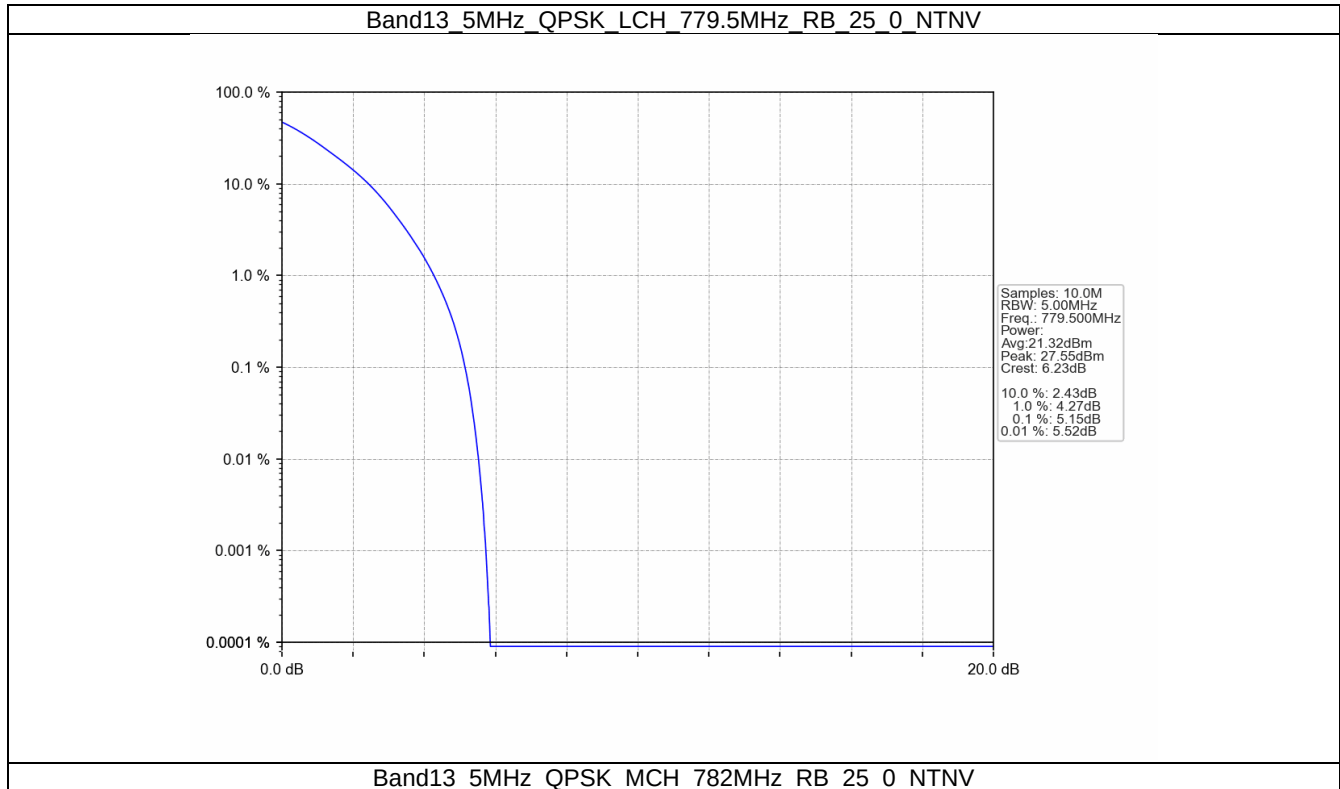
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5.1.2 Test Graph



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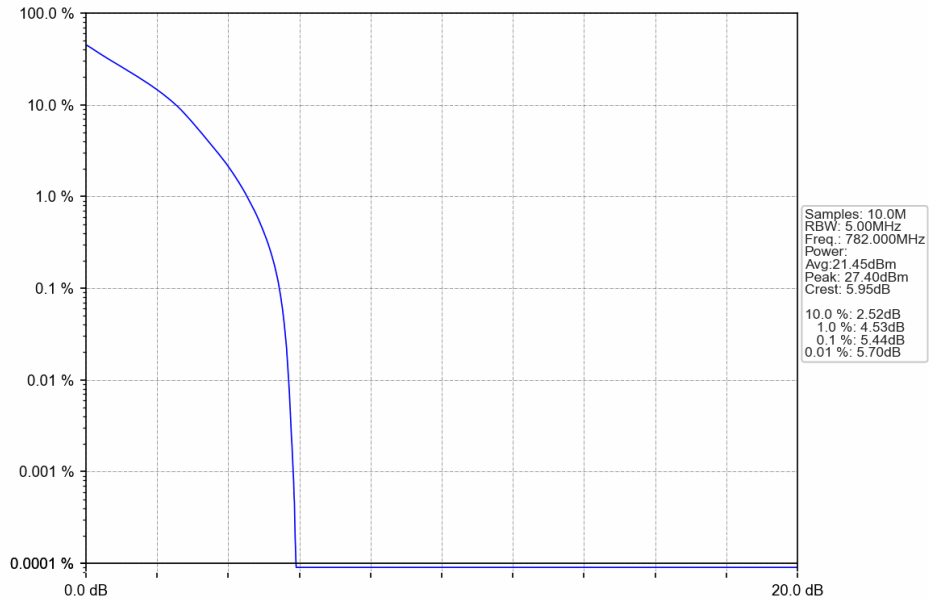
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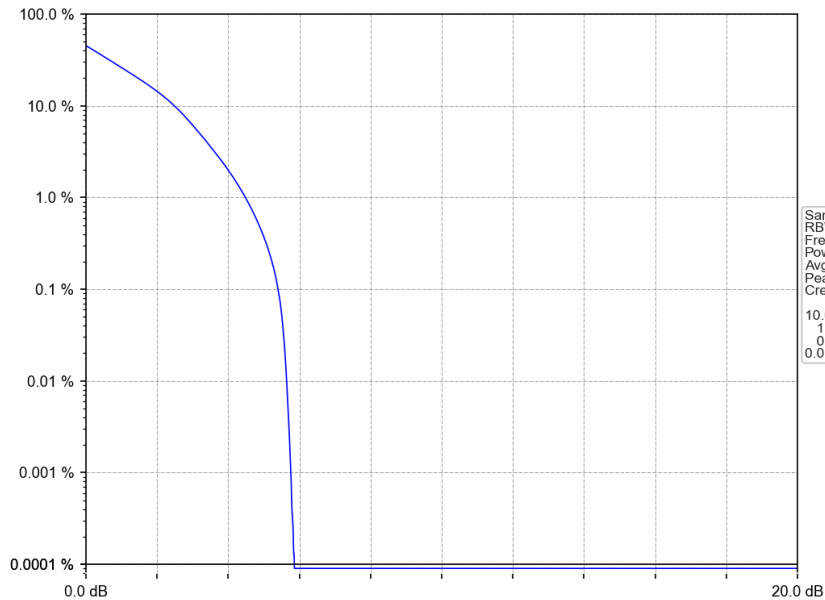
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Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



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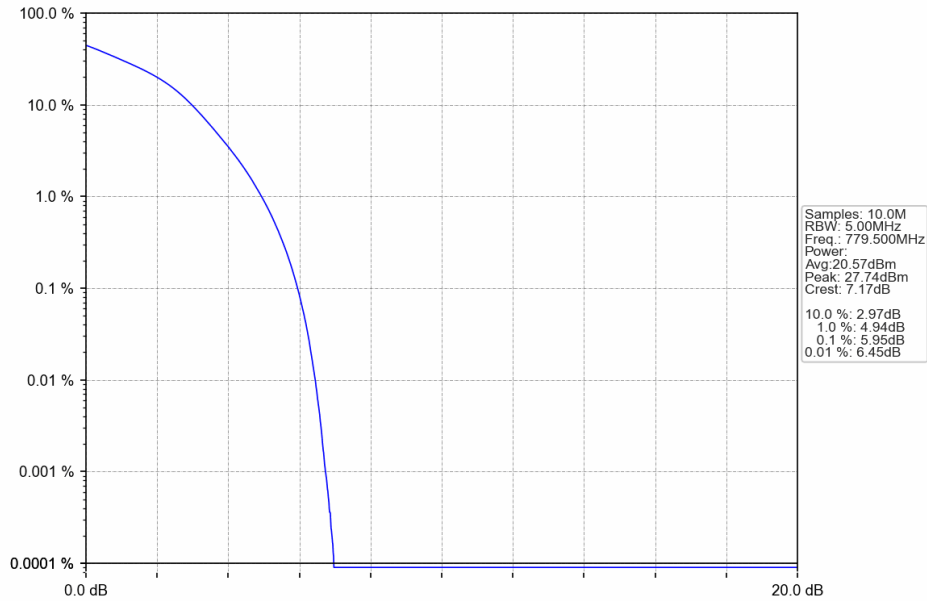
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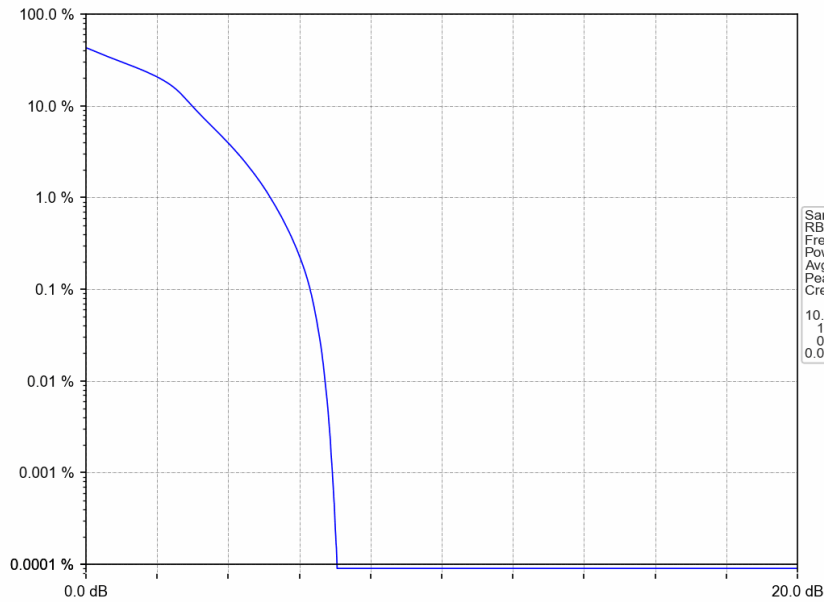
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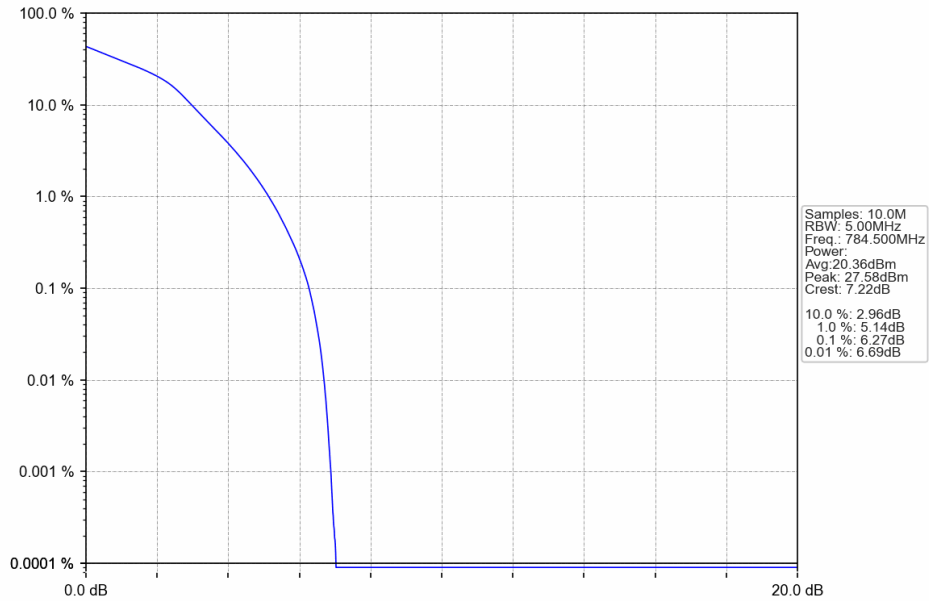
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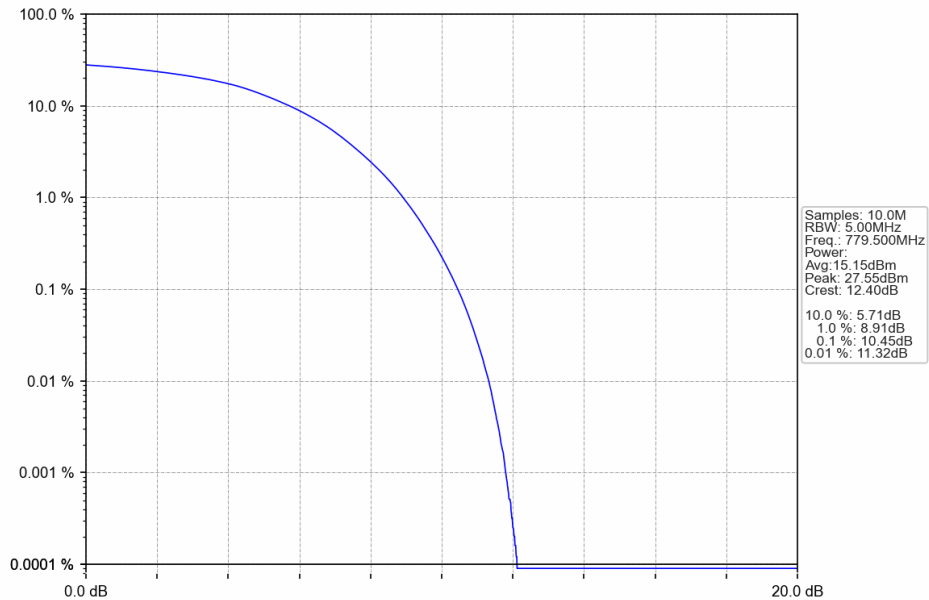
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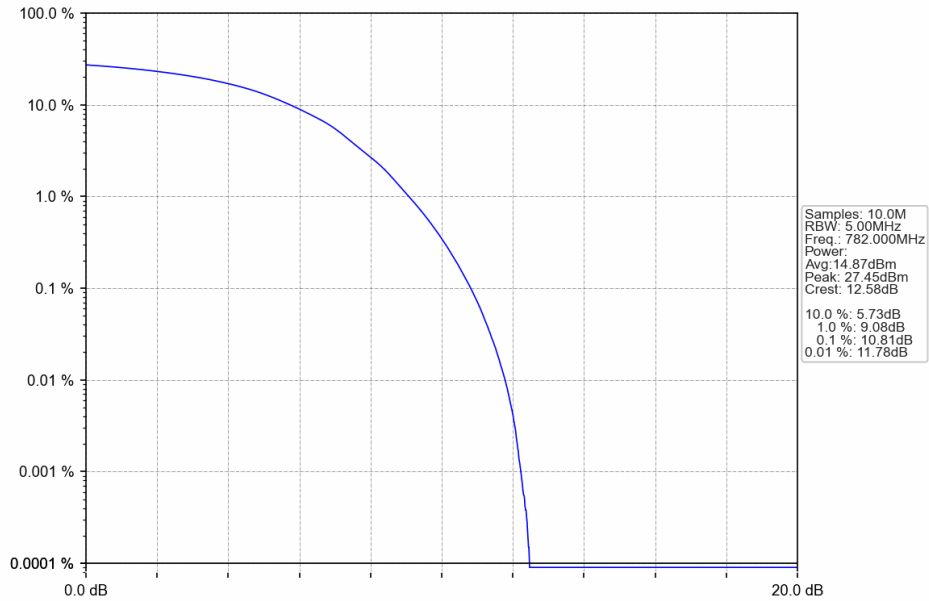
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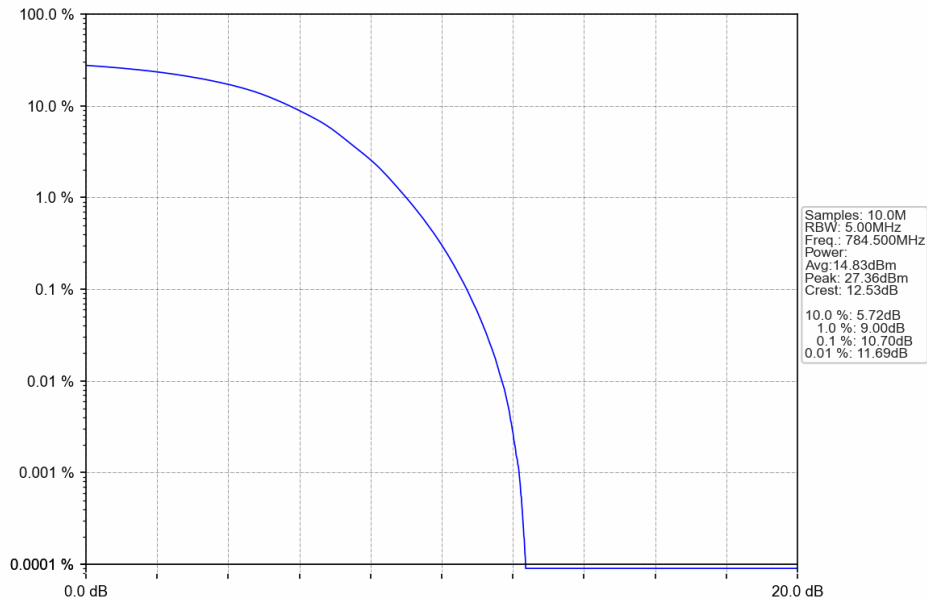
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Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTN



Band13 5MHz 256QAM LCH 779.5MHz RB 25 0 NTN



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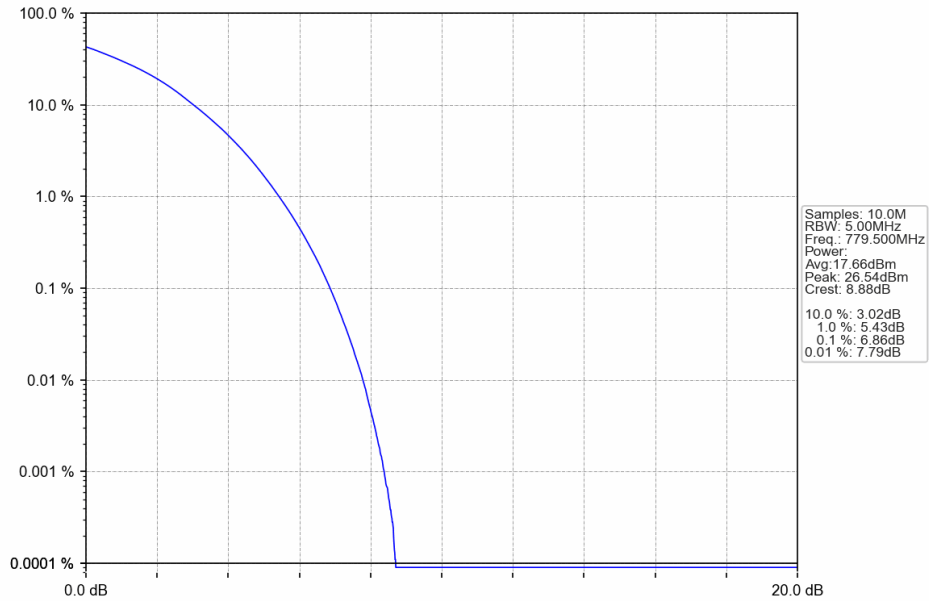
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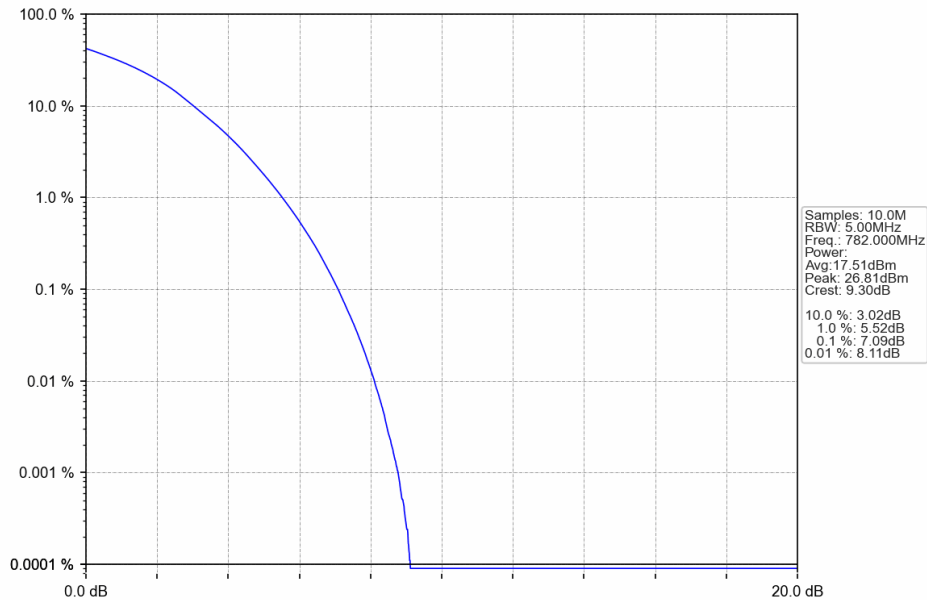
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Band13_5MHz_256QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_256QAM_HCH_784.5MHz_RB_25_0_NTNV



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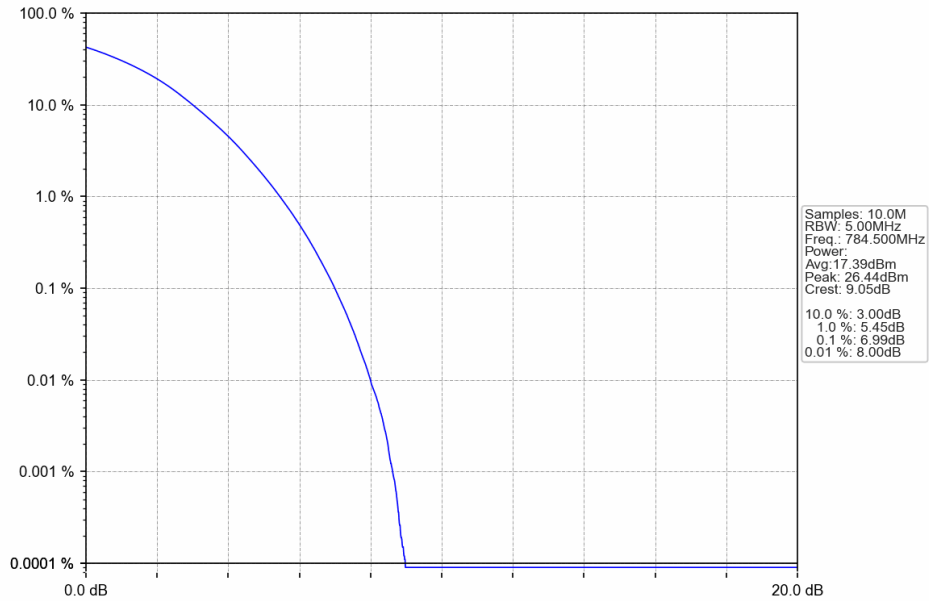
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5.2 B13_10MHz

5.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.41	<=13	Pass
16QAM	782	50	0	6.21	<=13	Pass
64QAM	782	50	0	6.65	<=13	Pass
256QAM	782	50	0	6.95	<=13	Pass



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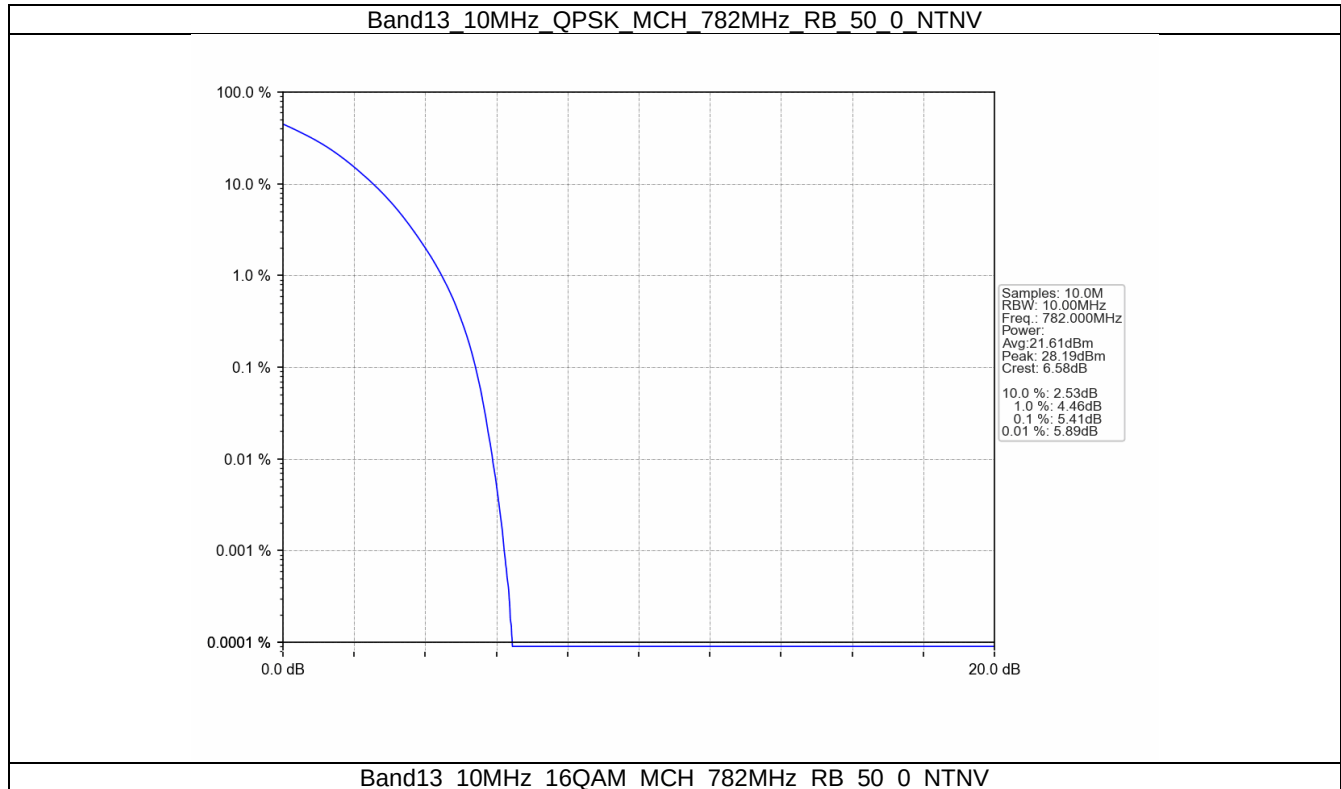
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5.2.2 Test Graph



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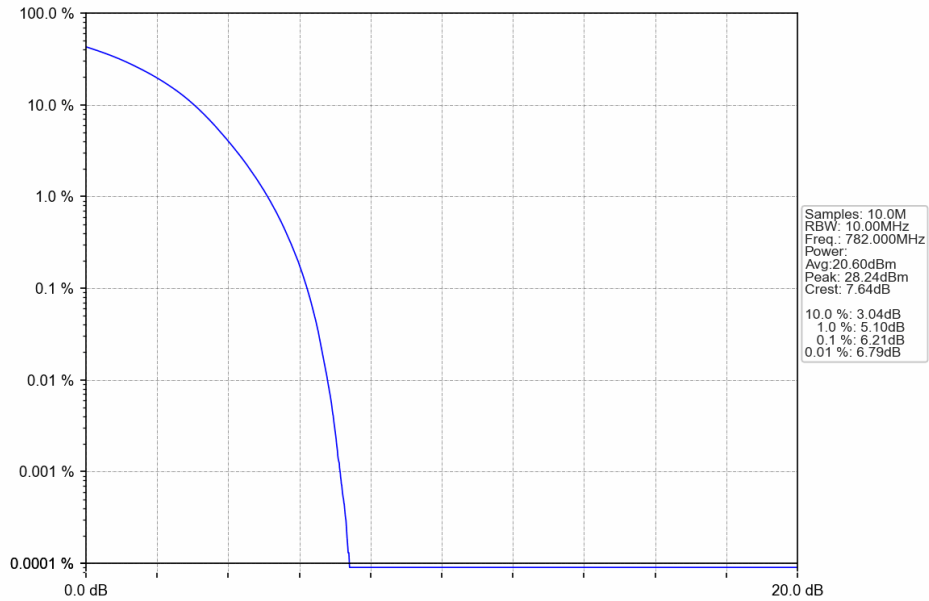
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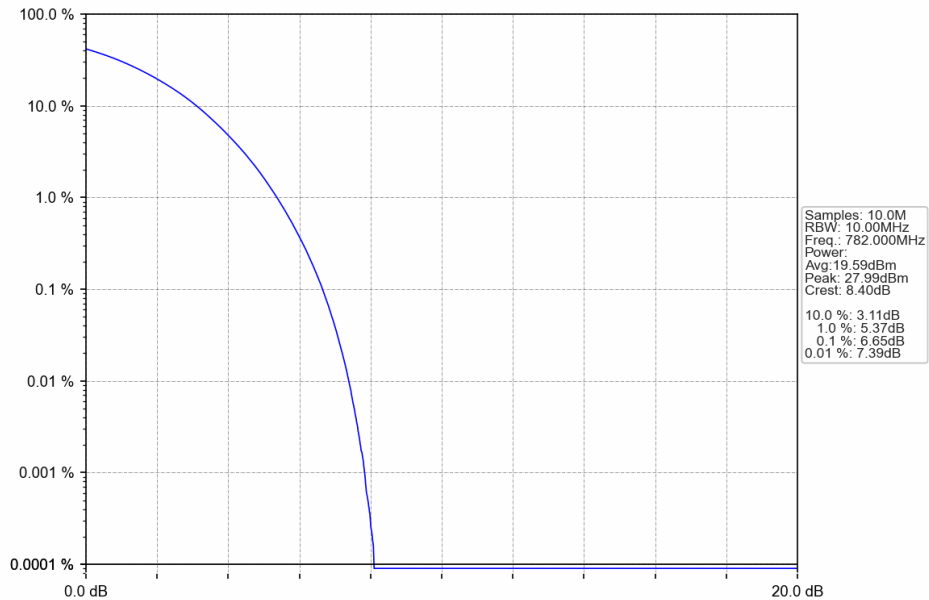
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Band13_10MHz_256QAM_MCH_782MHz_RB_50_0_NTNV



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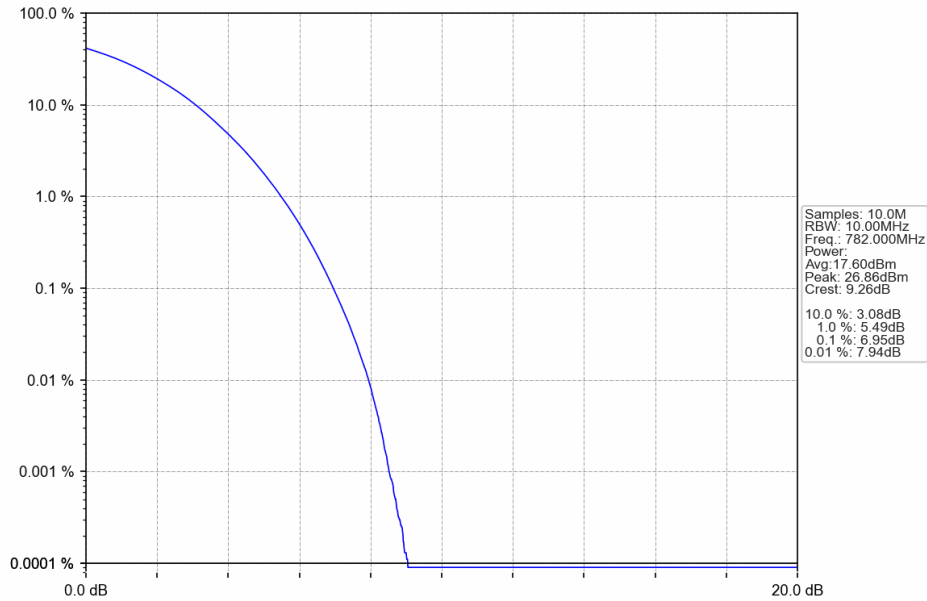
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6. Spurious Emission & Band Edges

6.1 B13_5MHz

6.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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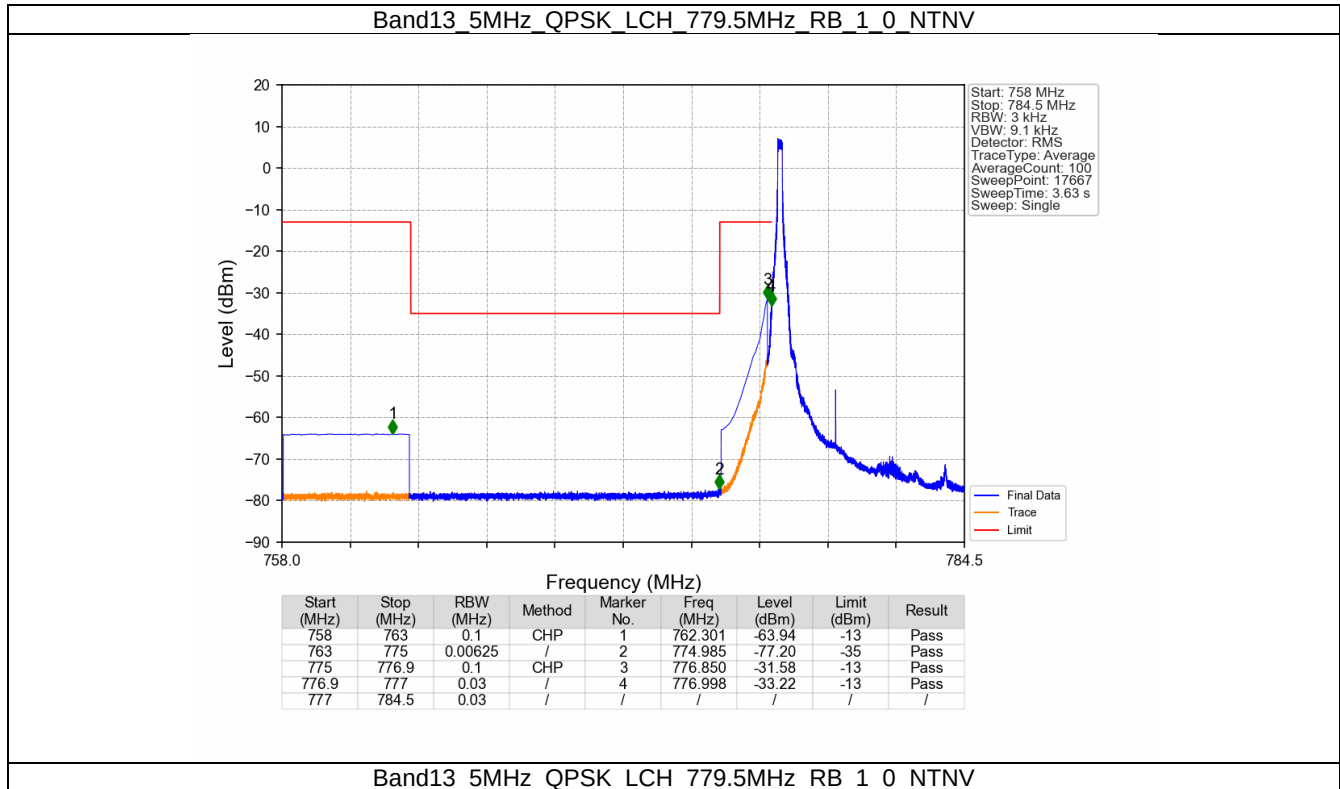
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6.1.2 Test Graph



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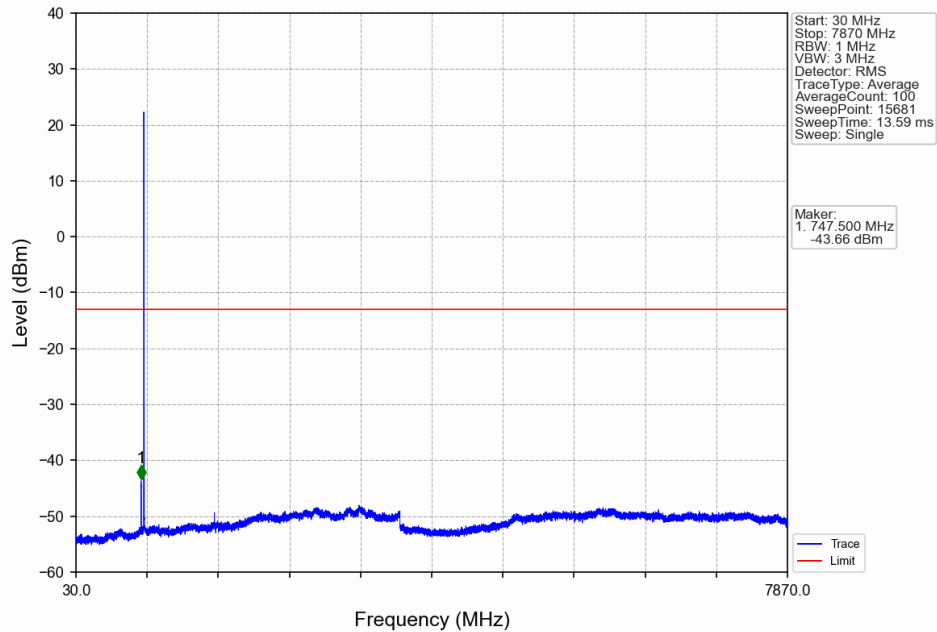
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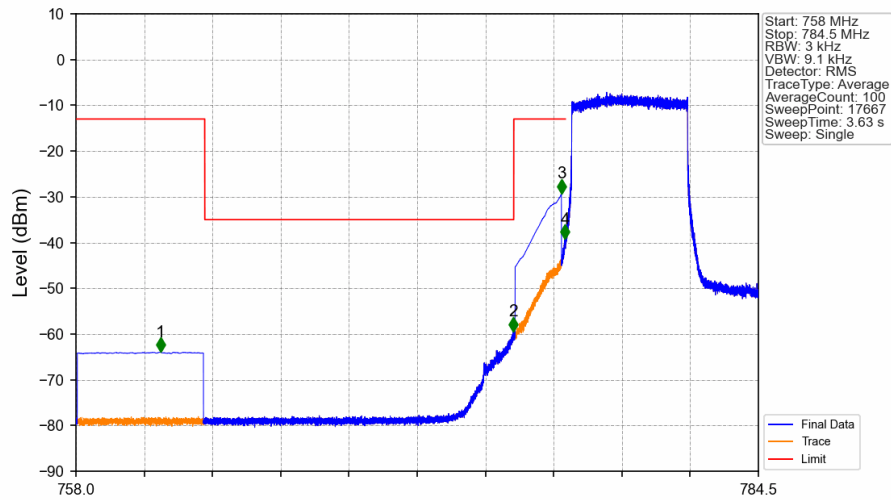
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Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.276	-63.97	-13	Pass
763	775	0.00625	/	2	774.979	-59.40	-35	Pass
775	776.9	0.1	CHP	3	776.850	-29.26	-13	Pass
776.9	777	0.03	/	4	776.988	-39.22	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



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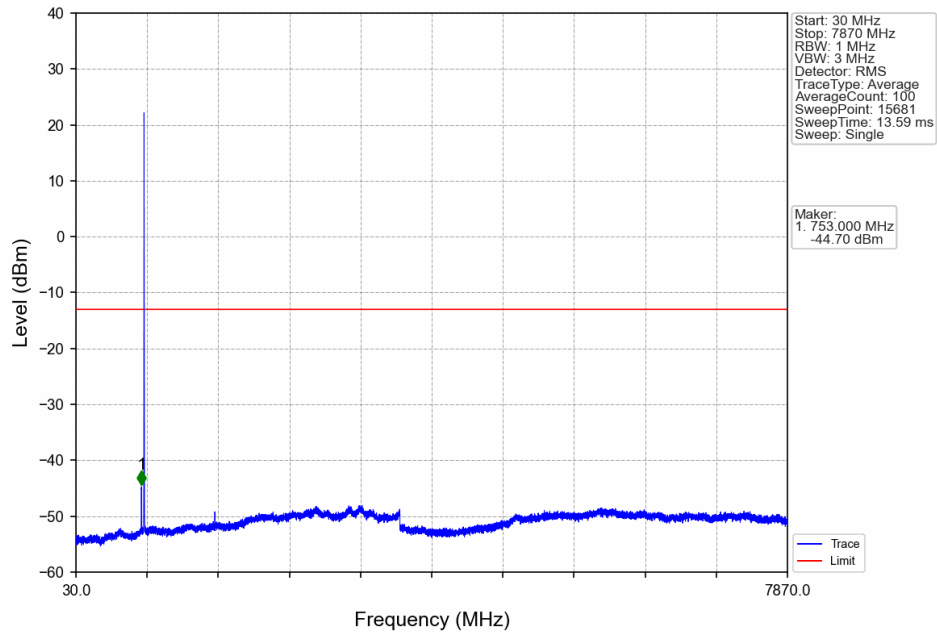
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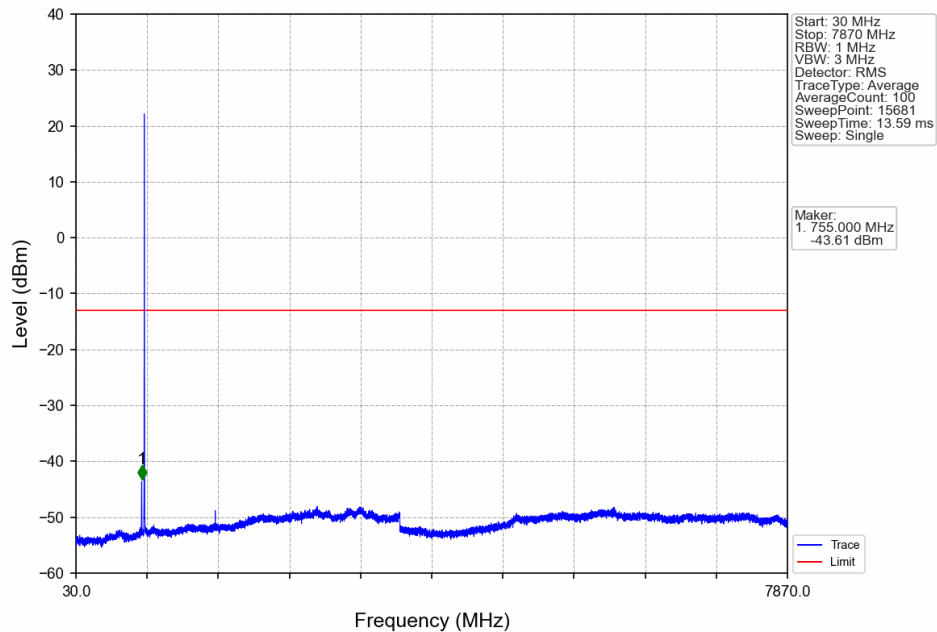
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Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN



Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTN



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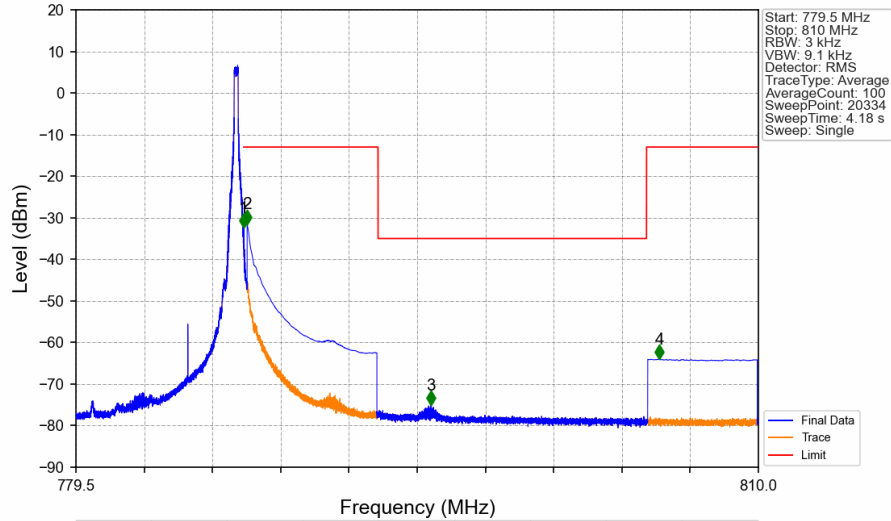
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-32.41	-13	Pass
787.1	793	0.1	CHP	2	787.150	-31.52	-13	Pass
793	805	0.00625	/	3	795.366	-75.01	-35	Pass
805	810	0.1	CHP	4	805.570	-64.02	-13	Pass



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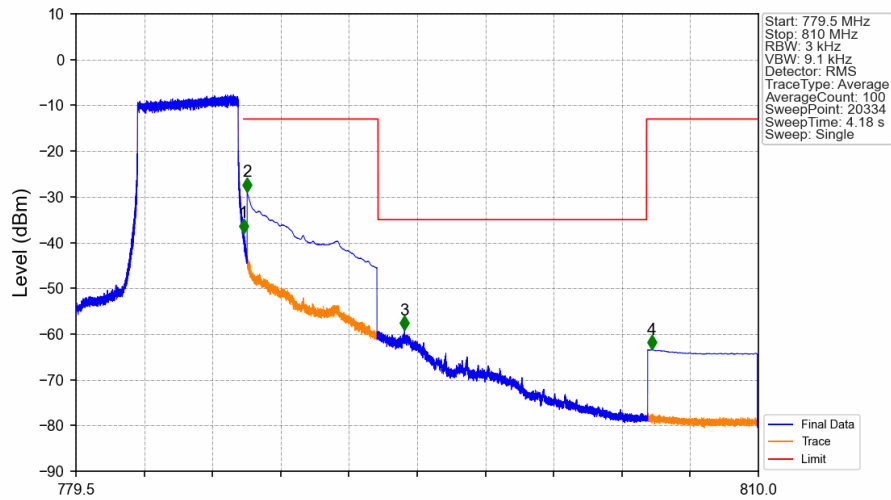
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-37.89	-13	Pass
787.1	793	0.1	CHP	2	787.150	-28.89	-13	Pass
793	805	0.00625	/	3	794.184	-59.17	-35	Pass
805	810	0.1	CHP	4	805.239	-63.42	-13	Pass



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6.2 B13_10MHz

6.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	782	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	782	1	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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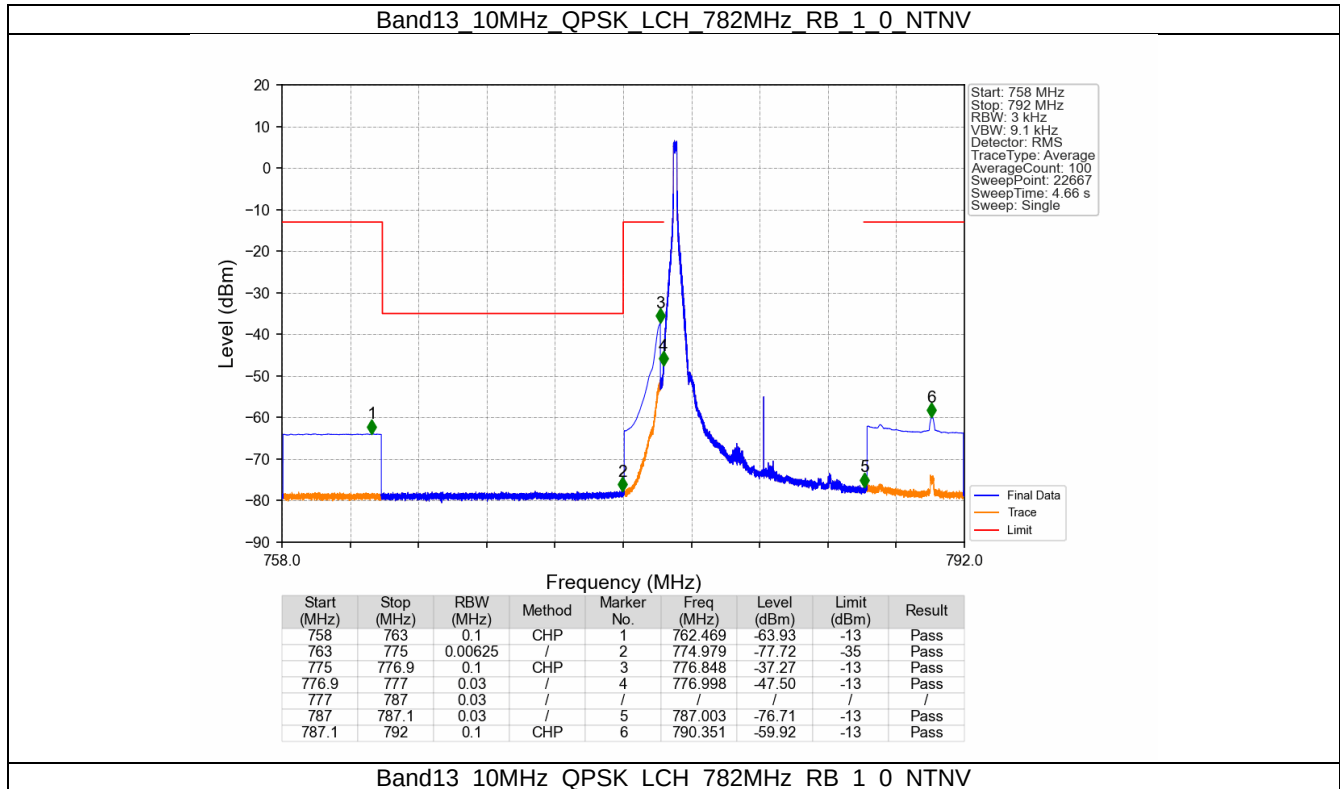
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6.2.2 Test Graph



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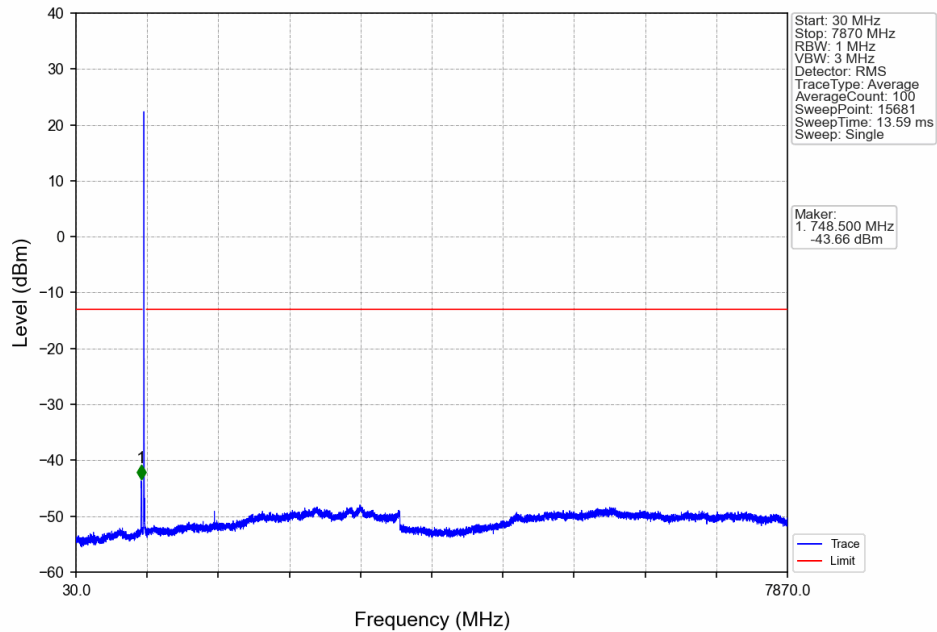
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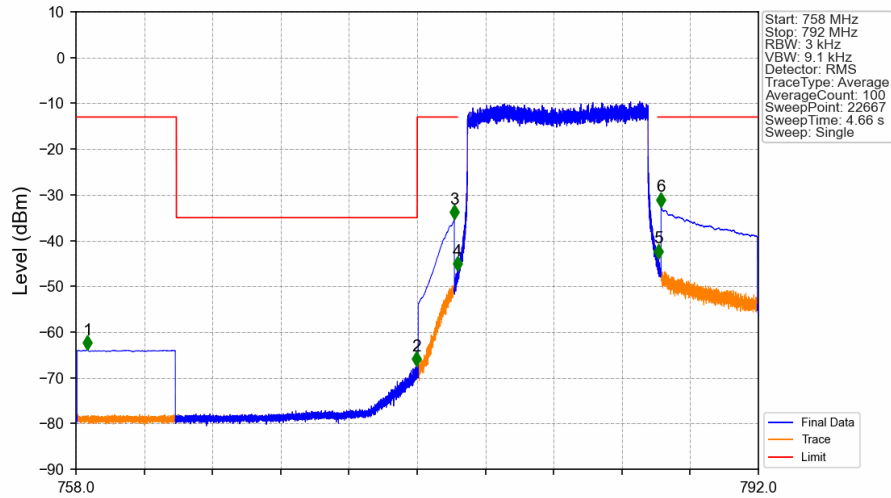
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Band13 10MHz QPSK LCH 782MHz RB 50 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.570	-63.94	-13	Pass
763	775	0.00625	/	2	774.974	-67.45	-35	Pass
775	776.9	0.1	CHP	3	776.850	-35.31	-13	Pass
776.9	777	0.03	/	4	777.000	-46.63	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.030	-43.90	-13	Pass
787.1	792	0.1	CHP	6	787.150	-32.62	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 1 49 NTN



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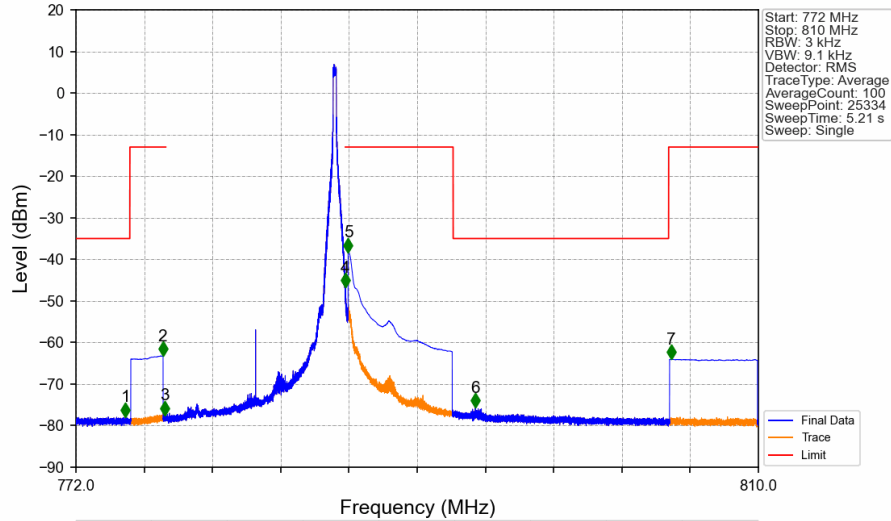
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.754	-77.89	-35	Pass
775	776.9	0.1	CHP	2	776.830	-63.24	-13	Pass
776.9	777	0.03	/	3	776.932	-77.49	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.005	-46.69	-13	Pass
787.1	793	0.1	CHP	5	787.156	-38.33	-13	Pass
793	805	0.00625	/	6	794.241	-75.62	-35	Pass
805	810	0.1	CHP	7	805.147	-64.01	-13	Pass



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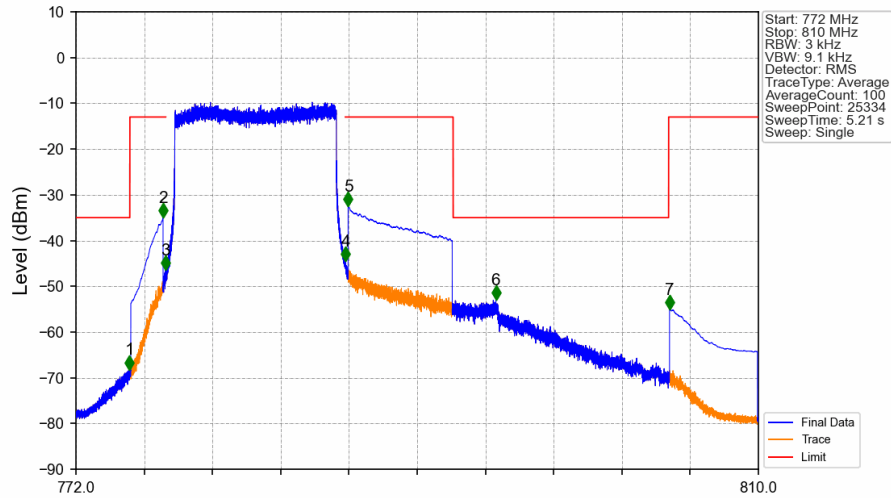
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Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.987	-68.21	-35	Pass
775	776.9	0.1	CHP	2	776.850	-35.03	-13	Pass
776.9	777	0.03	/	3	776.983	-46.42	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.015	-44.47	-13	Pass
787.1	793	0.1	CHP	5	787.156	-32.54	-13	Pass
793	805	0.00625	/	6	795.381	-52.95	-35	Pass
805	810	0.1	CHP	7	805.059	-55.04	-13	Pass

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