



Report No.: SUCR240400008901

Rev.: 01

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Appendix B.11

LTE Band 17



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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
Band17	5MHz	QPSK	23755	1RB#0	23.75	24.79	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.68	24.72	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.56	24.6	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.63	23.67	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.74	24.78	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.99	25.03	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.53	24.57	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.68	23.72	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.82	24.86	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.63	24.67	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.48	24.52	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.75	23.79	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.84	23.88	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.82	23.86	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.81	23.85	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.74	22.78	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.77	23.81	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.83	23.87	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.76	23.8	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.7	22.74	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.83	23.87	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.65	23.69	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.65	23.69	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.67	22.71	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.84	22.88	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.78	22.82	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.63	22.67	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.7	21.74	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.64	22.68	34.77	PASS



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Band17	5MHz	64QAM	23790	1RB#12	21.86	22.9	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.75	22.79	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.66	21.7	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.87	22.91	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.68	22.72	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.73	22.77	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.7	21.74	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.6	19.64	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.87	19.91	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.62	19.66	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	18.67	19.71	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.82	19.86	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.66	19.7	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.72	19.76	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.56	19.6	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.59	19.63	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.89	19.93	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.64	19.68	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.68	19.72	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.74	24.78	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.68	24.72	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.46	24.5	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.68	23.72	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.7	24.74	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.71	24.75	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.51	24.55	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.66	23.7	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.59	24.63	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.65	24.69	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.49	24.53	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.62	23.66	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.72	23.76	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.85	23.89	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.61	23.65	34.77	PASS



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Band17	10MHz	16QAM	23780	50RB#0	21.7	22.74	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.7	23.74	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.84	23.88	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.77	23.81	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.68	22.72	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.8	23.84	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.92	23.96	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.78	23.82	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.6	22.64	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.08	23.12	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.78	22.82	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.64	22.68	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.74	21.78	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.76	22.8	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.79	22.83	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.91	22.95	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.74	21.78	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.74	22.78	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.73	22.77	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.67	22.71	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.65	21.69	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.7	19.74	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	18.78	19.82	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.69	19.73	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	18.79	19.83	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.69	19.73	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	18.79	19.83	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.7	19.74	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	18.71	19.75	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.84	19.88	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.71	19.75	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.59	19.63	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	18.64	19.68	34.77	PASS



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2. Frequency Stability

2.2 B17_10MHz

2.2.1 Test Result

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	709	50	0	20	3.135	0.213	0.0003	/	Pass
					3.7	0.782	0.0011	/	Pass
					4.4	0.755	0.0011	/	Pass
				-30	3.7	0.051	0.0001	/	Pass
				-20	3.7	0.226	0.0003	/	Pass
				-10	3.7	0.048	0.0001	/	Pass
				0	3.7	-0.133	-0.0002	/	Pass
				10	3.7	-0.605	-0.0009	/	Pass
				30	3.7	0.716	0.0010	/	Pass
				40	3.7	0.187	0.0003	/	Pass
				50	3.7	-0.716	-0.0010	/	Pass
	710	50	0	20	3.135	0.436	0.0006	/	Pass
					3.7	0.937	0.0013	/	Pass
					4.4	-0.161	-0.0002	/	Pass
				-30	3.7	-0.080	-0.0001	/	Pass
				-20	3.7	-0.806	-0.0011	/	Pass
				-10	3.7	0.599	0.0008	/	Pass
				0	3.7	-0.646	-0.0009	/	Pass
				10	3.7	-0.331	-0.0005	/	Pass
				30	3.7	-1.189	-0.0017	/	Pass
				40	3.7	-0.051	-0.0001	/	Pass
				50	3.7	0.560	0.0008	/	Pass
	711	50	0	20	3.135	0.589	0.0008	/	Pass
					3.7	0.879	0.0012	/	Pass
					4.4	-1.195	-0.0017	/	Pass
				-30	3.7	-0.248	-0.0003	/	Pass
				-20	3.7	0.338	0.0005	/	Pass
				-10	3.7	-0.404	-0.0006	/	Pass
				0	3.7	0.586	0.0008	/	Pass
				10	3.7	0.555	0.0008	/	Pass
				30	3.7	-0.403	-0.0006	/	Pass
				40	3.7	0.297	0.0004	/	Pass
				50	3.7	0.426	0.0006	/	Pass



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3. Field Strength of Spurious Radiation

For report SUCR240400009001:

Test Band = LTE_B17

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409	63.07	-53.80	25.78	-60.21	-13.00	47.21	Horizontal
2	2113.5	66.79	-52.60	27.47	-53.60	-13.00	40.60	Horizontal
3	3102	52.91	-50.63	30.11	-62.87	-13.00	49.87	Horizontal
4	4156	51.80	-47.81	31.15	-60.12	-13.00	47.12	Horizontal
5	6088.5	50.78	-44.24	34.48	-54.24	-13.00	41.24	Horizontal
6	9510	49.43	-39.30	39.18	-45.95	-13.00	32.95	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1233.5	54.67	-53.91	25.67	-68.83	-13.00	55.83	Vertical
2	1769.5	66.43	-53.17	25.58	-56.42	-13.00	43.42	Vertical
3	2114	55.14	-52.60	27.47	-65.25	-13.00	52.25	Vertical
4	3282.5	52.34	-49.87	30.67	-62.12	-13.00	49.12	Vertical
5	5121	51.55	-44.75	33.54	-54.92	-13.00	41.92	Vertical
6	7345.5	49.59	-42.96	36.92	-51.71	-13.00	38.71	Vertical



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Test Band = LTE_B17

Test Channel = MCH

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	63.18	-53.79	25.78	-60.09	-13.00	47.09	Horizontal
2	2117	68.00	-52.61	27.47	-52.40	-13.00	39.40	Horizontal
3	3705	53.19	-49.33	30.32	-61.08	-13.00	48.08	Horizontal
4	5123.5	52.06	-44.78	33.55	-54.43	-13.00	41.43	Horizontal
5	7077	50.16	-43.46	36.62	-51.94	-13.00	38.94	Horizontal
6	9502	49.13	-39.28	39.20	-46.21	-13.00	33.21	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1146	54.95	-53.60	25.89	-68.02	-13.00	55.02	Vertical
2	1770	57.01	-53.17	25.58	-65.84	-13.00	52.84	Vertical
3	2116.5	55.58	-52.61	27.47	-64.82	-13.00	51.82	Vertical
4	3233.5	52.48	-50.22	30.53	-62.47	-13.00	49.47	Vertical
5	5147.5	51.22	-45.14	33.60	-55.58	-13.00	42.58	Vertical
6	9499.5	48.99	-39.28	39.20	-46.35	-13.00	33.35	Vertical



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Test Band = LTE_B17
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	63.14	-53.78	25.77	-60.13	-13.00	47.13	Horizontal
2	1772.5	60.80	-53.15	25.59	-62.02	-13.00	49.02	Horizontal
3	2119.5	70.52	-52.61	27.46	-49.89	-13.00	36.89	Horizontal
4	2873	53.34	-50.64	28.99	-63.57	-13.00	50.57	Horizontal
5	4367.5	51.82	-46.60	32.01	-58.03	-13.00	45.03	Horizontal
6	5685	51.24	-44.33	33.44	-54.91	-13.00	41.91	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1278	54.99	-53.99	25.64	-68.62	-13.00	55.62	Vertical
2	1771	70.16	-53.16	25.58	-52.68	-13.00	39.68	Vertical
3	2119.5	55.66	-52.61	27.46	-64.75	-13.00	51.75	Vertical
4	3188	53.28	-50.38	30.38	-61.98	-13.00	48.98	Vertical
5	4961	50.71	-44.33	33.18	-55.70	-13.00	42.70	Vertical
6	8062.5	49.00	-41.22	37.58	-49.90	-13.00	36.90	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_17_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	1409	51.94	-46.76	24.97	-65.11	-13.00	52.11	Horizontal
2	2347	47.44	-46.03	27.57	-66.28	-13.00	53.28	Horizontal
3	3910	45.88	-44.09	29.74	-63.73	-13.00	50.73	Horizontal
4	6083.5	44.61	-40.58	33.43	-57.80	-13.00	44.80	Horizontal
5	8372	42.35	-36.64	36.39	-53.16	-13.00	40.16	Horizontal
6	9950	42.19	-34.91	38.65	-49.33	-13.00	36.33	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1125.5	52.15	-47.27	24.40	-65.98	-13.00	52.98	Vertical
2	1409	52.69	-46.76	24.97	-64.36	-13.00	51.36	Vertical
3	2280.5	47.41	-46.00	26.98	-66.87	-13.00	53.87	Vertical
4	3676.5	46.40	-44.57	29.30	-64.13	-13.00	51.13	Vertical
5	7019.5	43.61	-38.91	35.83	-54.73	-13.00	41.73	Vertical
6	9855	41.50	-34.97	38.24	-50.49	-13.00	37.49	Vertical



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Test Band = LTE_17_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	1411	52.52	-46.76	24.99	-64.51	-13.00	51.51	Horizontal
2	2120	46.77	-46.33	26.68	-68.14	-13.00	55.14	Horizontal
3	3232.5	46.98	-44.55	28.53	-64.30	-13.00	51.30	Horizontal
4	5370.5	45.20	-41.66	32.32	-59.40	-13.00	46.40	Horizontal
5	7435.5	42.80	-37.84	36.77	-53.53	-13.00	40.53	Horizontal
6	9926	41.68	-34.98	38.63	-49.93	-13.00	36.93	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1117.5	53.03	-47.24	24.37	-65.10	-13.00	52.10	Vertical
2	1411	51.01	-46.76	24.99	-66.02	-13.00	53.02	Vertical
3	2117	47.55	-46.33	26.70	-67.34	-13.00	54.34	Vertical
4	3228.5	46.99	-44.56	28.51	-64.32	-13.00	51.32	Vertical
5	5373	45.05	-41.68	32.34	-59.55	-13.00	46.55	Vertical
6	9783	41.27	-34.99	38.43	-50.55	-13.00	37.55	Vertical



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Test Band = LTE_17_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	1413	51.18	-46.76	25.00	-65.84	-13.00	52.84	Horizontal
2	2119.5	48.88	-46.33	26.68	-66.03	-13.00	53.03	Horizontal
3	3342	46.91	-44.89	28.58	-64.66	-13.00	51.66	Horizontal
4	5349.5	44.58	-41.56	32.20	-60.04	-13.00	47.04	Horizontal
5	7423.5	43.22	-37.98	36.75	-53.27	-13.00	40.27	Horizontal
6	9928.5	41.77	-34.97	38.63	-49.83	-13.00	36.83	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1115	53.32	-47.23	24.36	-64.81	-13.00	51.81	Vertical
2	1413	52.14	-46.76	25.00	-64.88	-13.00	51.88	Vertical
3	2120	47.73	-46.33	26.68	-67.18	-13.00	54.18	Vertical
4	4046	46.24	-43.79	29.62	-63.19	-13.00	50.19	Vertical
5	6654	43.86	-39.30	34.92	-55.78	-13.00	42.78	Vertical
6	9486.5	41.78	-35.01	37.72	-50.77	-13.00	37.77	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 Band17_OBW

4.1.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.567	/	Pass
		710	25	0	4.579	/	Pass
		713.5	25	0	4.575	/	Pass
	16QAM	706.5	25	0	4.590	/	Pass
		710	25	0	4.569	/	Pass
		713.5	25	0	4.572	/	Pass
	64QAM	706.5	25	0	4.577	/	Pass
		710	25	0	4.592	/	Pass
		713.5	25	0	4.560	/	Pass
	256QAM	706.5	25	0	4.575	/	Pass
		710	25	0	4.574	/	Pass
		713.5	25	0	4.574	/	Pass
10	QPSK	709	50	0	9.106	/	Pass
		710	50	0	9.094	/	Pass
		711	50	0	9.059	/	Pass
	16QAM	709	50	0	9.090	/	Pass
		710	50	0	9.055	/	Pass
		711	50	0	9.088	/	Pass
	64QAM	709	50	0	9.091	/	Pass
		710	50	0	9.089	/	Pass
		711	50	0	9.057	/	Pass
	256QAM	709	50	0	9.076	/	Pass
		710	50	0	9.087	/	Pass
		711	50	0	9.082	/	Pass



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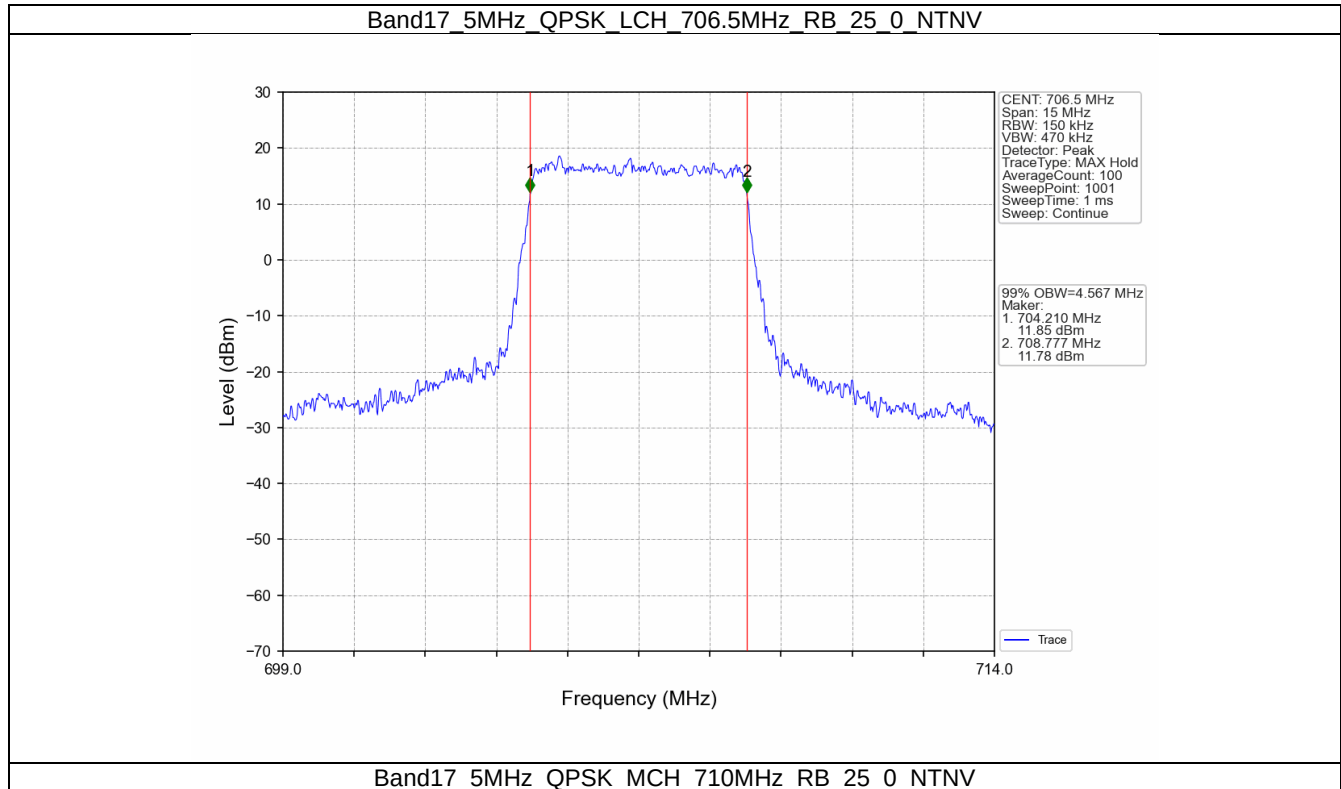
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4.1.2 Test Graph



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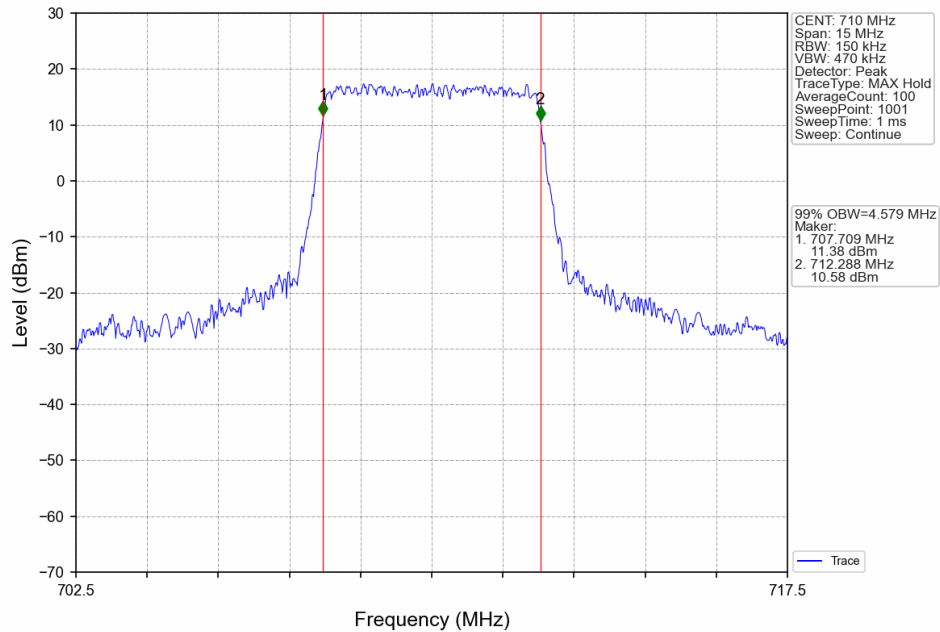
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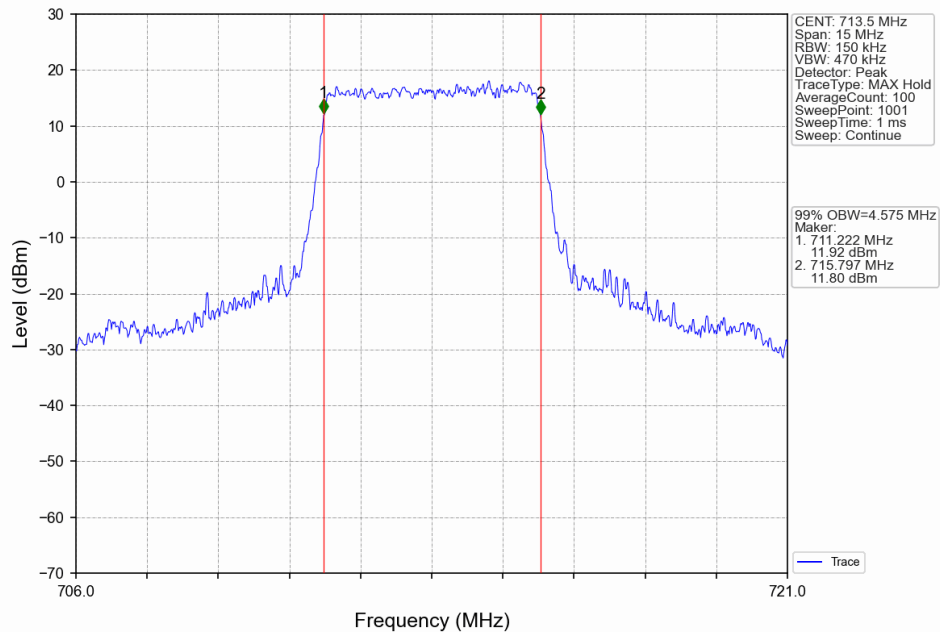
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



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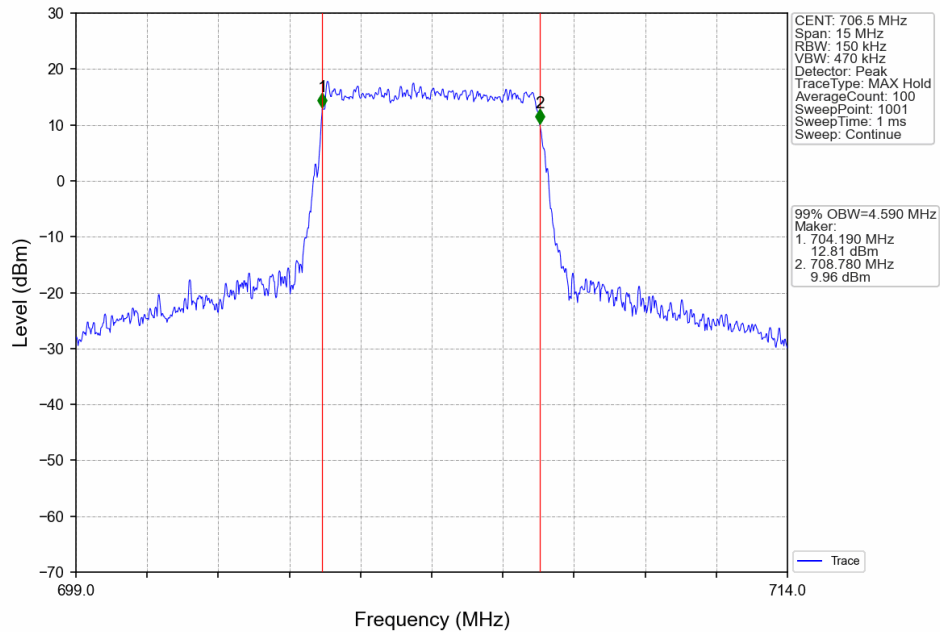
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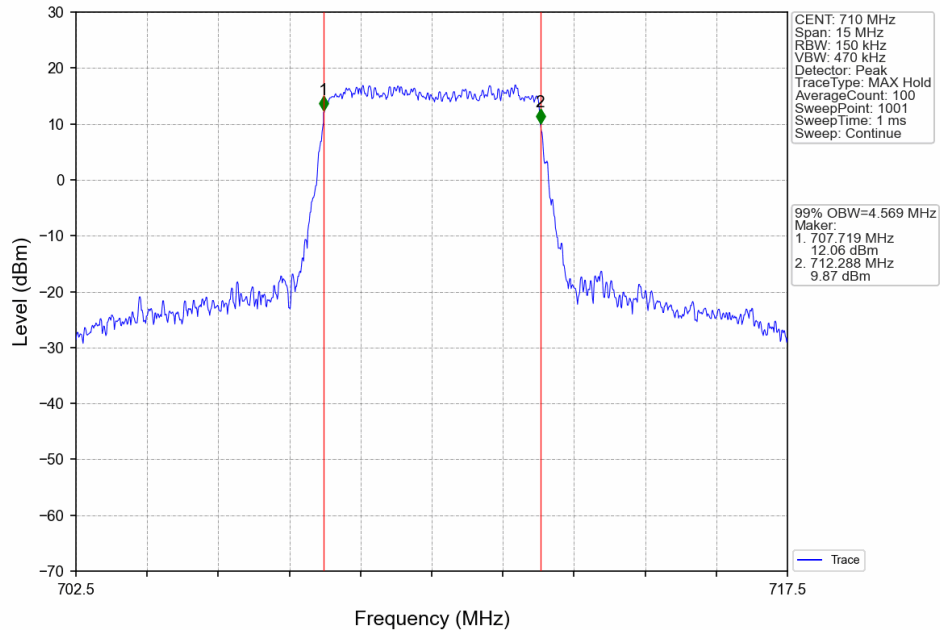
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Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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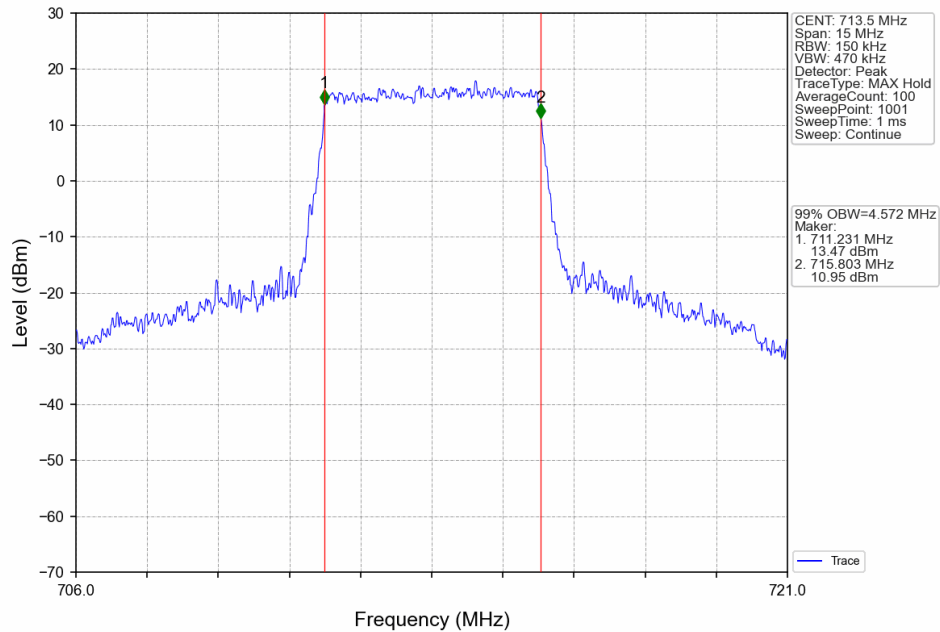
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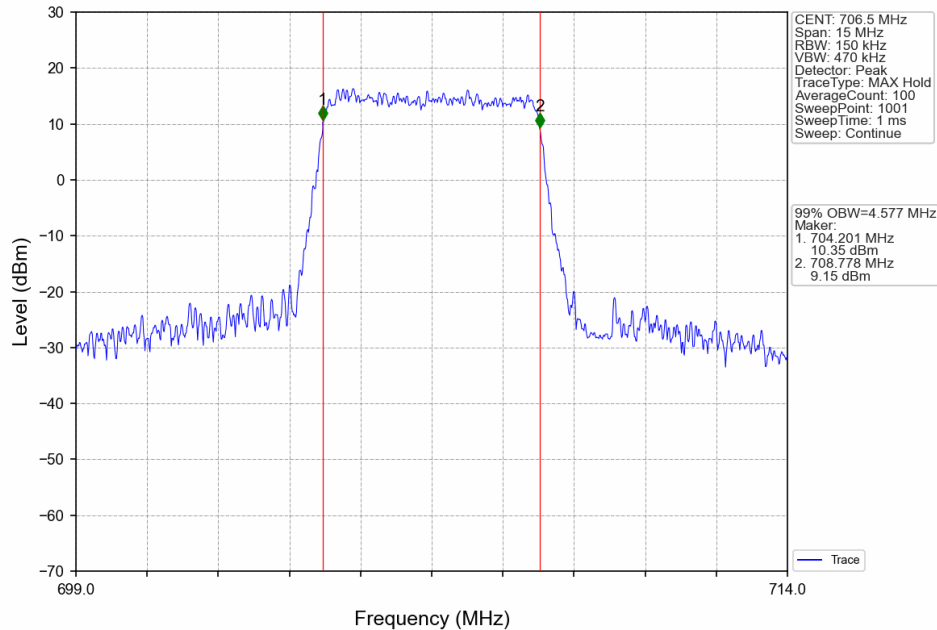
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Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



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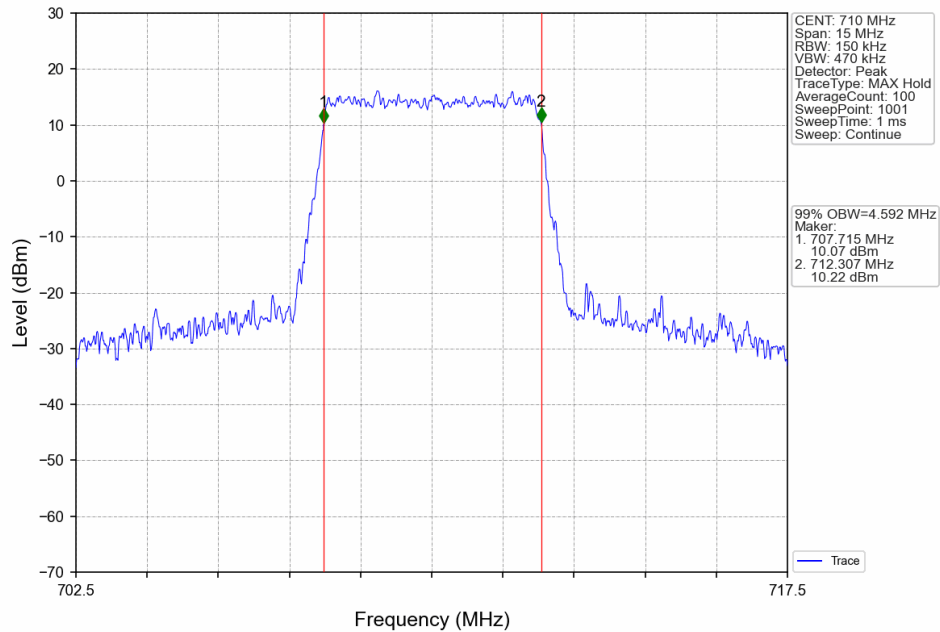
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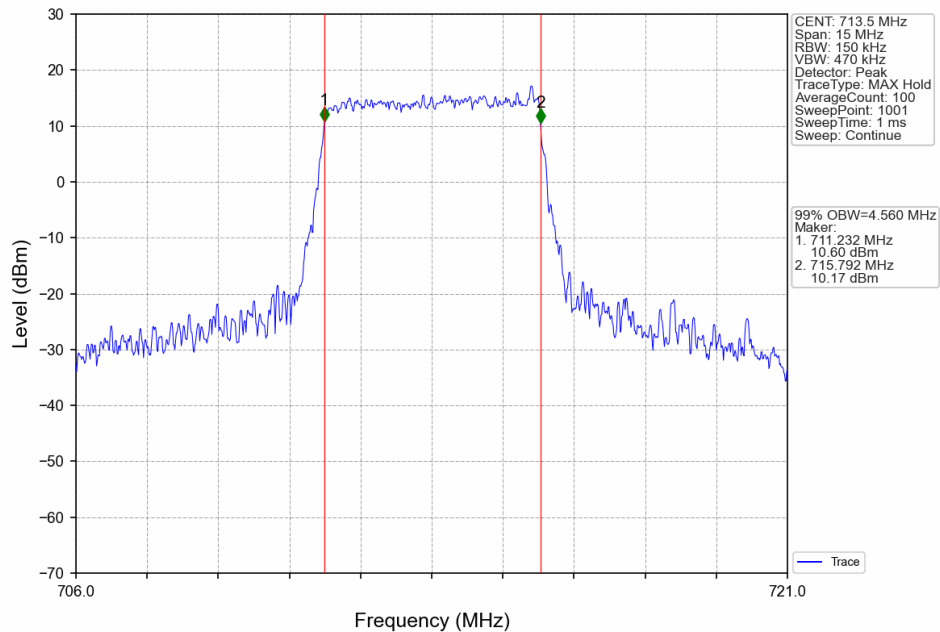
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Band17 5MHz 64QAM HCH 713.5MHz RB 25 0 NTN



Band17 5MHz 256QAM LCH 706.5MHz RB 25 0 NTN



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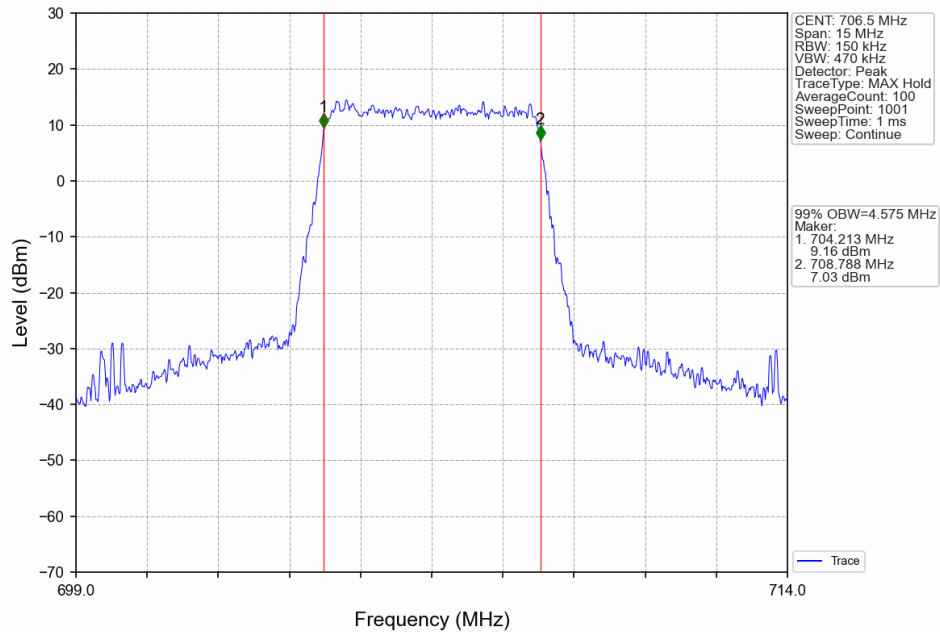
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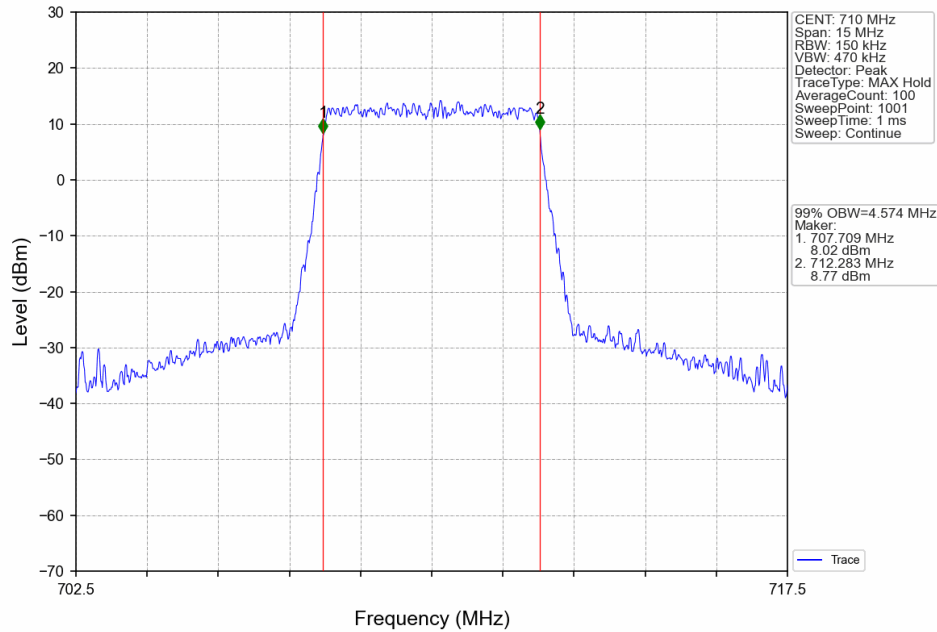
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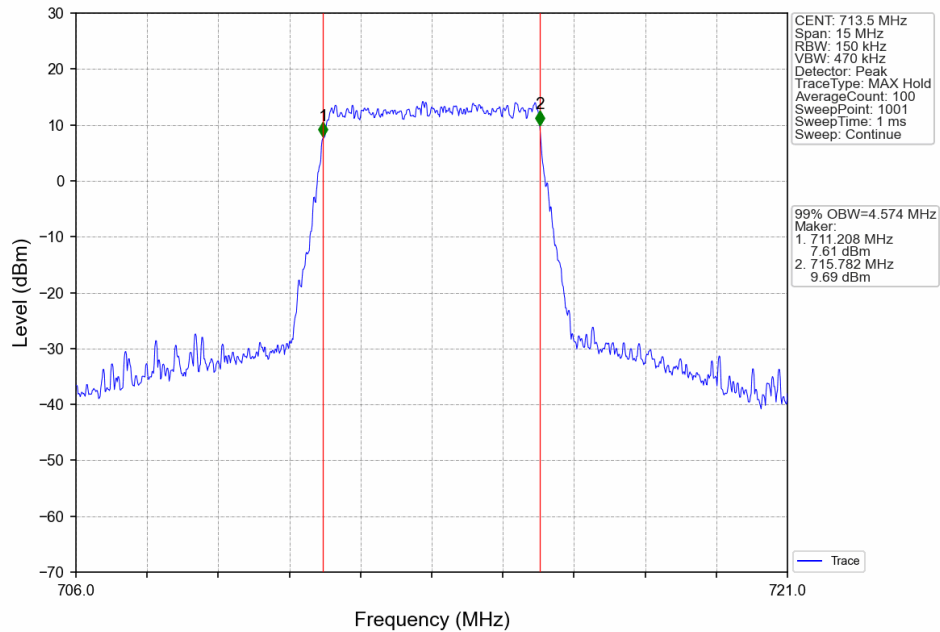
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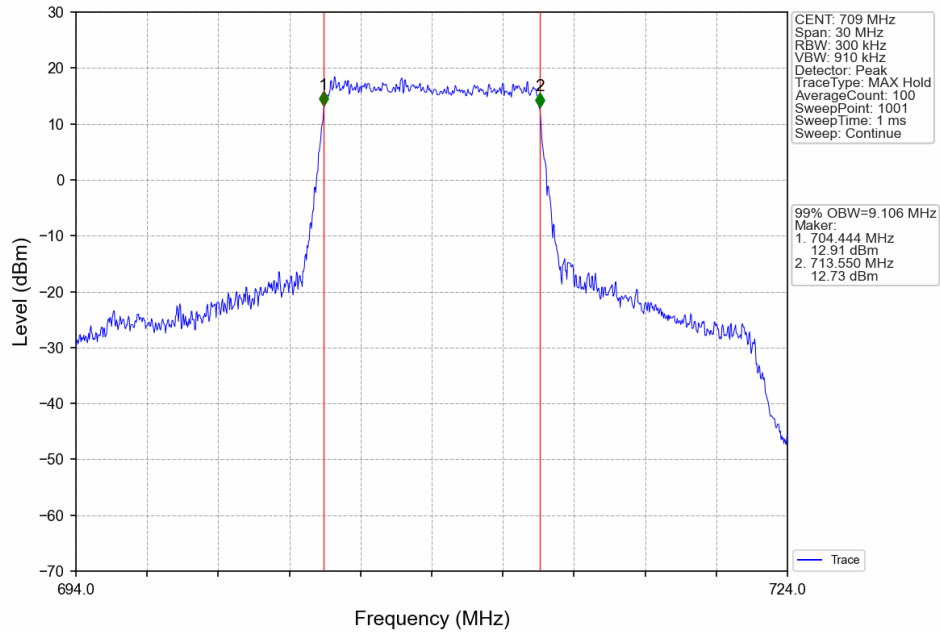
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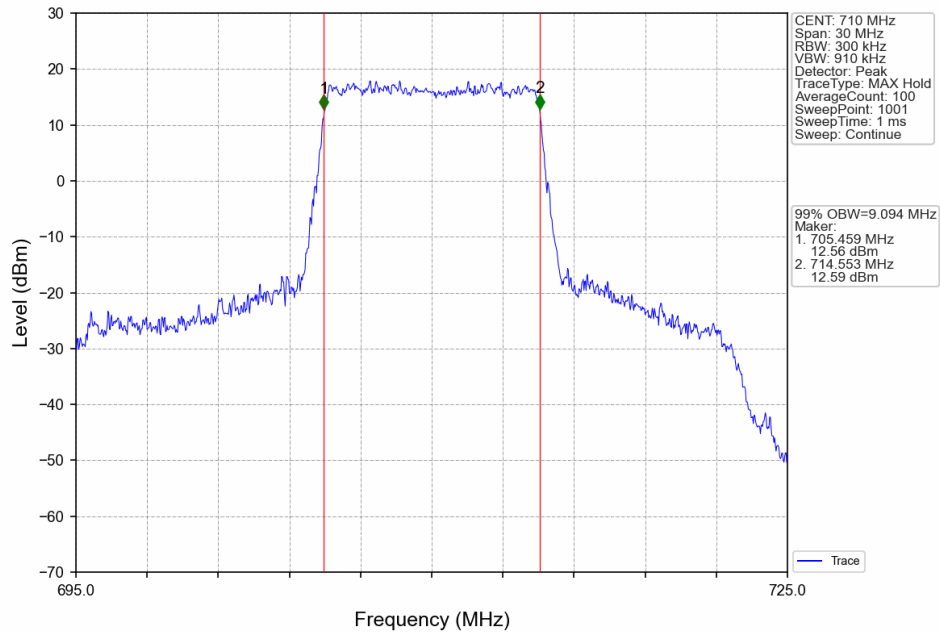
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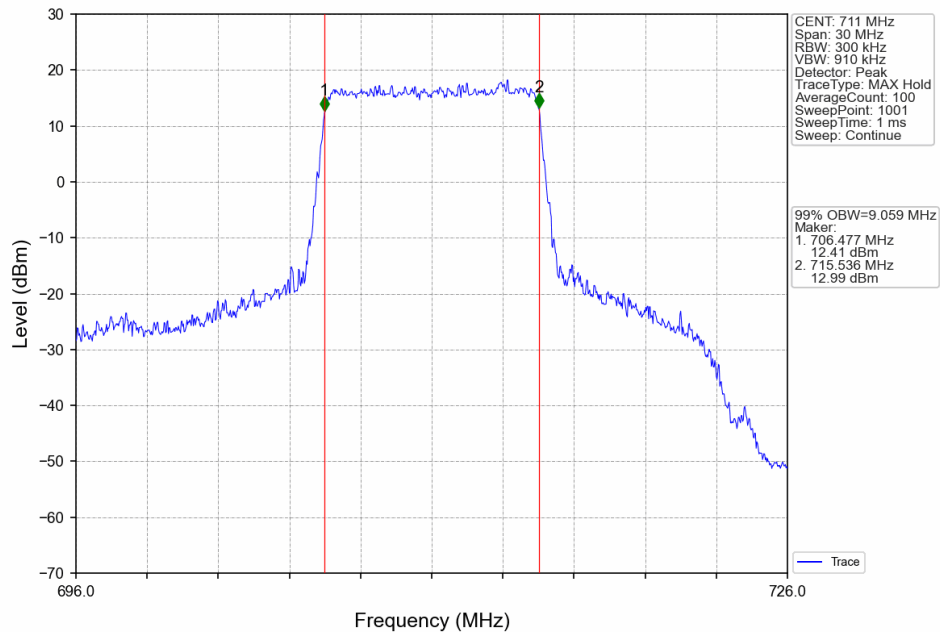
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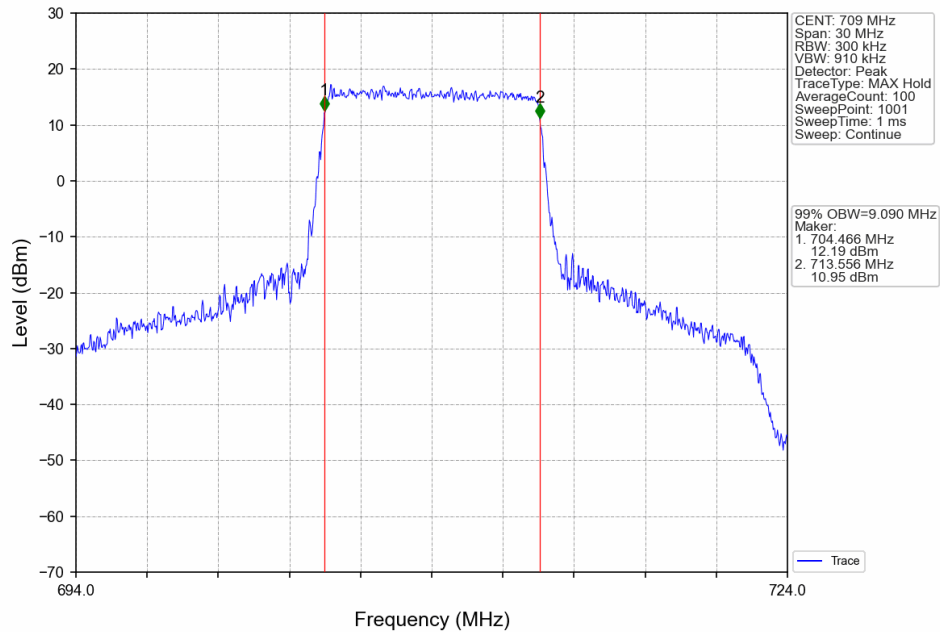
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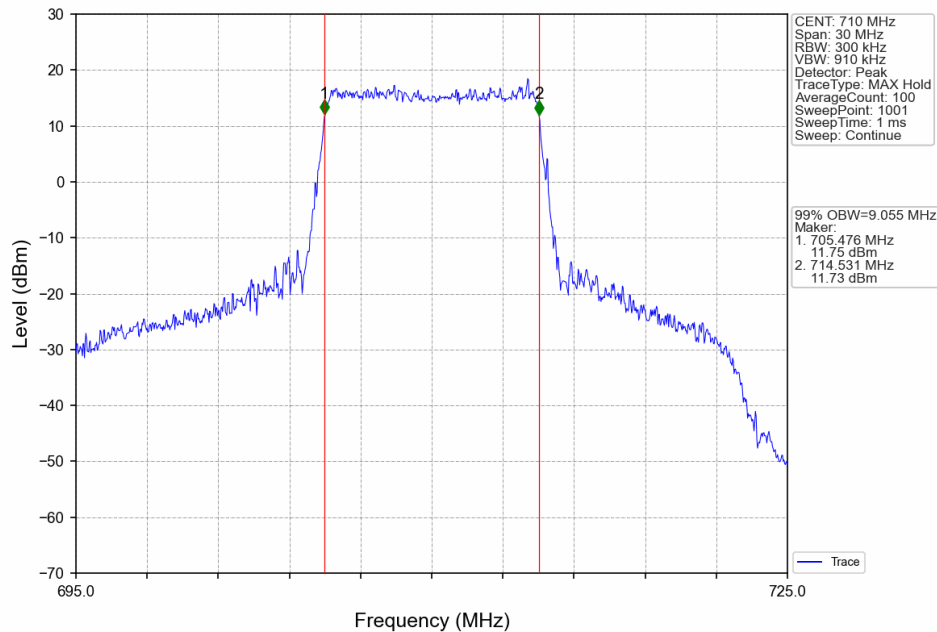
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Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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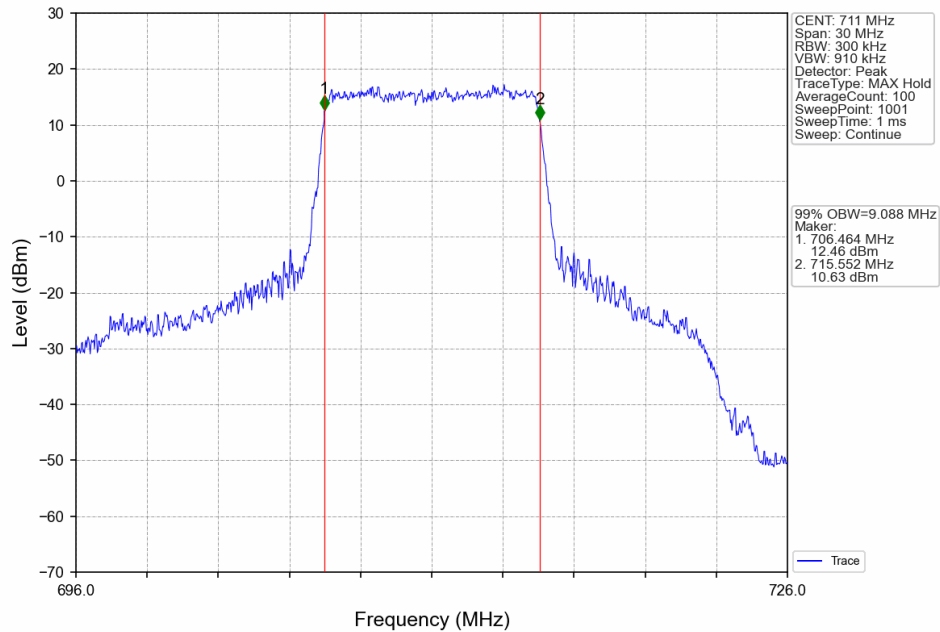
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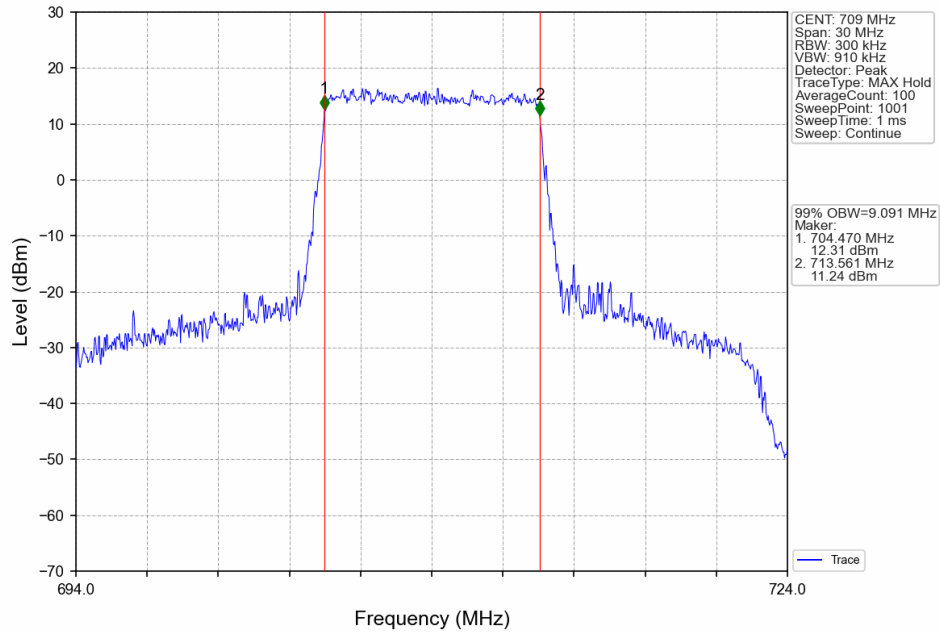
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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



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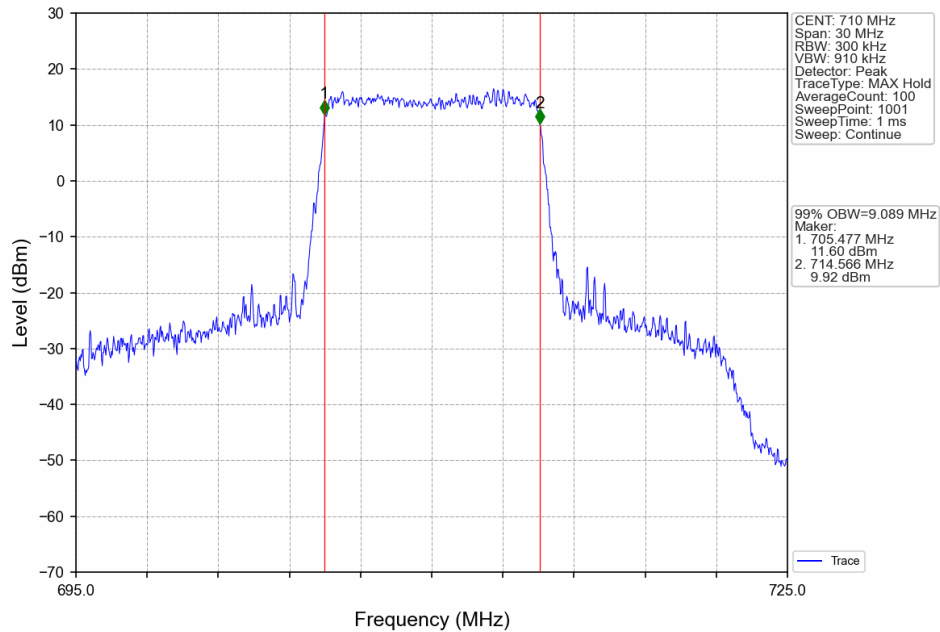
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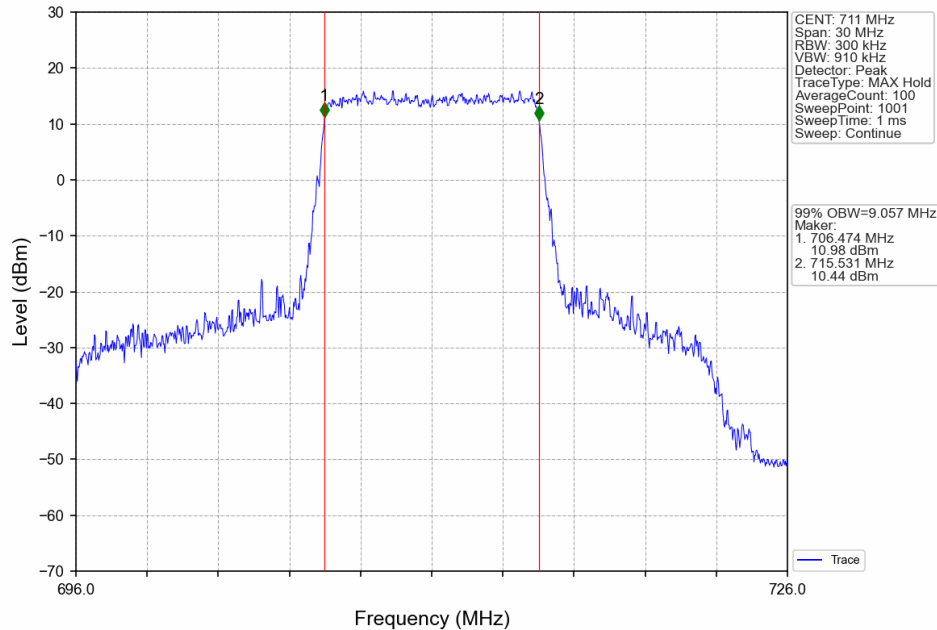
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Band17 10MHz 64QAM HCH 711MHz RB 50 0 NTV



Band17 10MHz 256QAM LCH 709MHz RB 50 0 NTV



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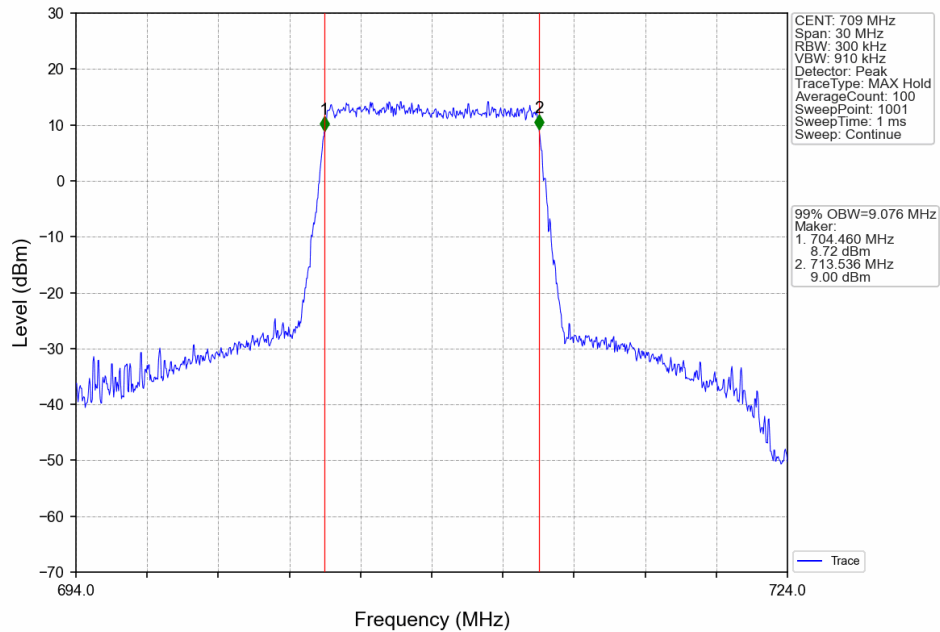
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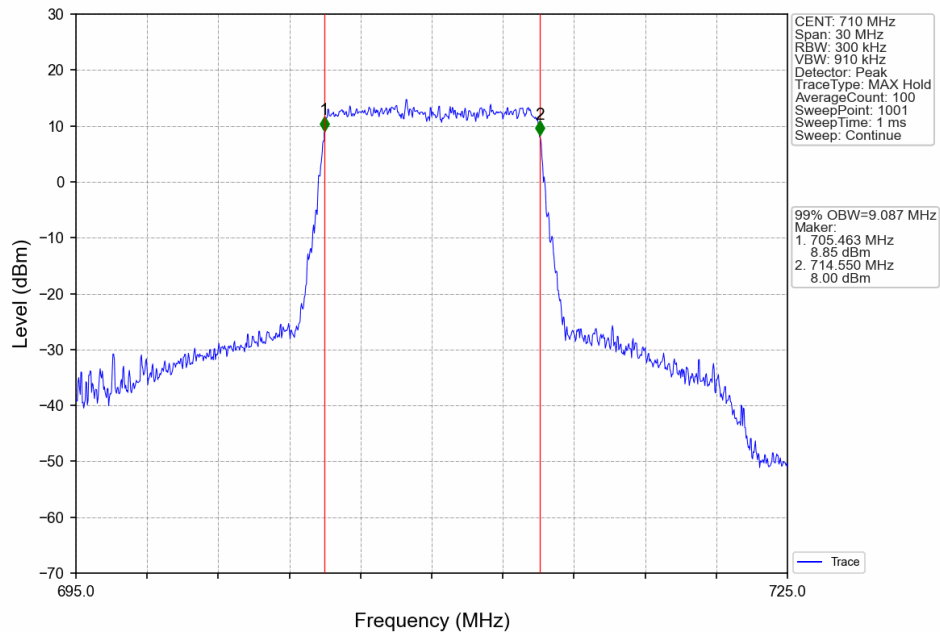
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Band17 10MHz 256QAM MCH 710MHz RB 50 0 NTN



Band17 10MHz 256QAM HCH 711MHz RB 50 0 NTN



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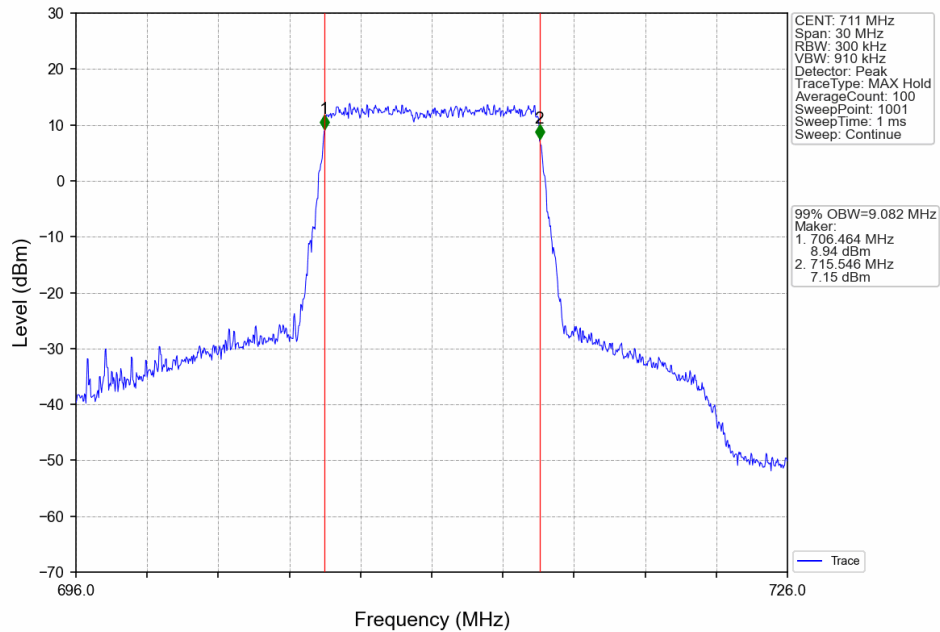
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4.2 Band17_XDB

4.2.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.271	/	Pass
		710	25	0	5.244	/	Pass
		713.5	25	0	5.186	/	Pass
	16QAM	706.5	25	0	5.159	/	Pass
		710	25	0	5.230	/	Pass
		713.5	25	0	5.202	/	Pass
	64QAM	706.5	25	0	5.239	/	Pass
		710	25	0	5.252	/	Pass
		713.5	25	0	5.168	/	Pass
	256QAM	706.5	25	0	5.233	/	Pass
		710	25	0	5.241	/	Pass
		713.5	25	0	5.201	/	Pass
10	QPSK	709	50	0	10.120	/	Pass
		710	50	0	10.241	/	Pass
		711	50	0	10.067	/	Pass
	16QAM	709	50	0	10.295	/	Pass
		710	50	0	10.113	/	Pass
		711	50	0	10.170	/	Pass
	64QAM	709	50	0	10.182	/	Pass
		710	50	0	10.136	/	Pass
		711	50	0	10.161	/	Pass
	256QAM	709	50	0	10.172	/	Pass
		710	50	0	10.154	/	Pass
		711	50	0	10.345	/	Pass



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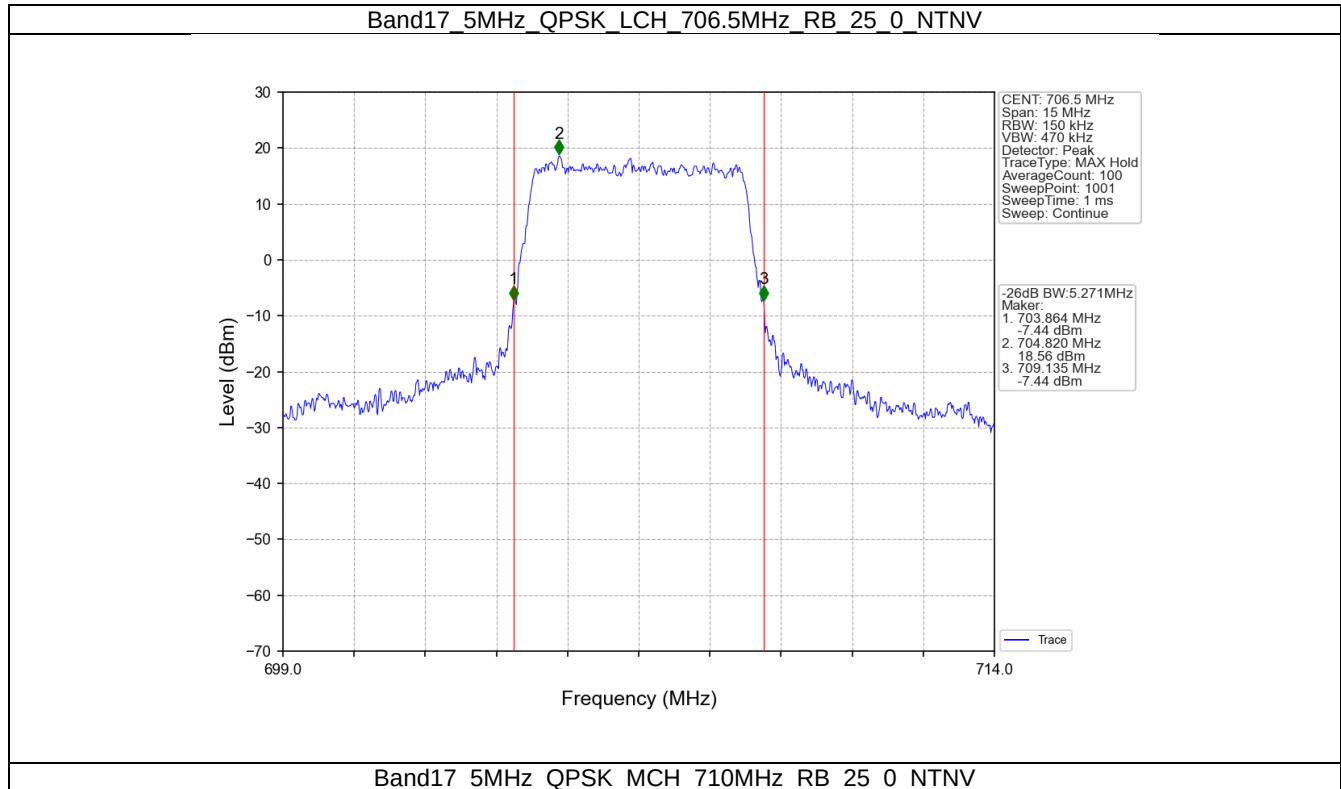
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4.2.2 Test Graph



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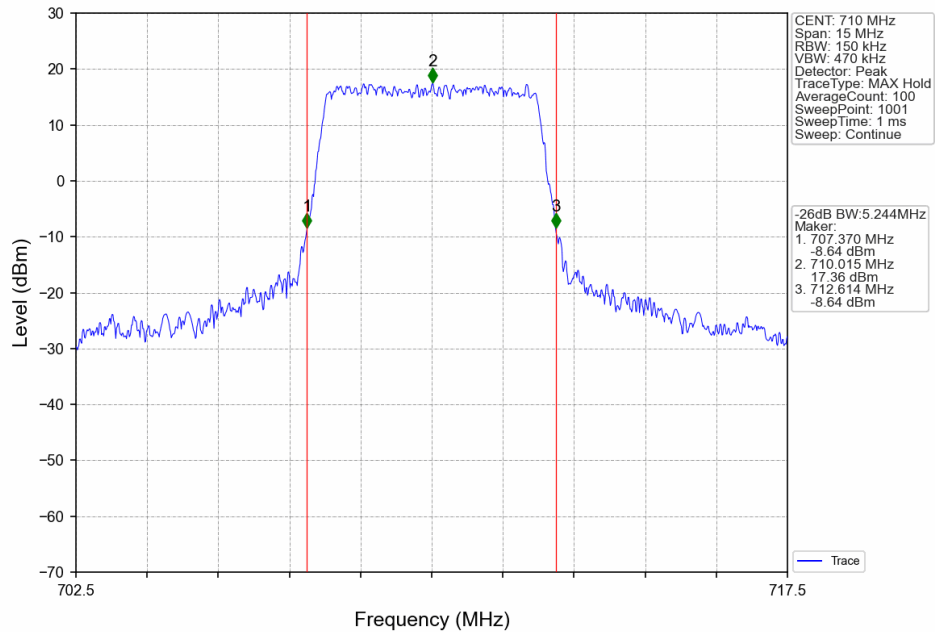
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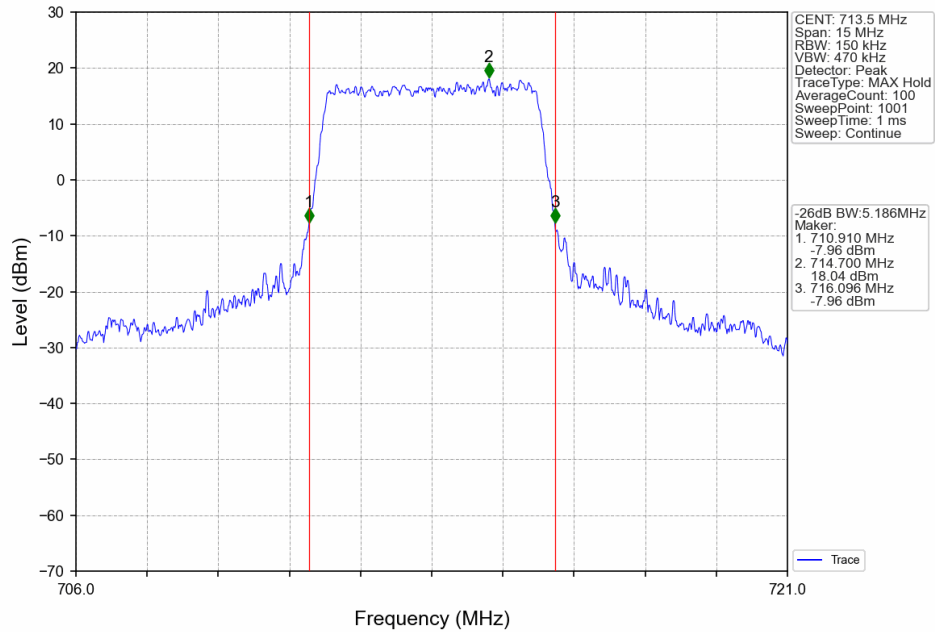
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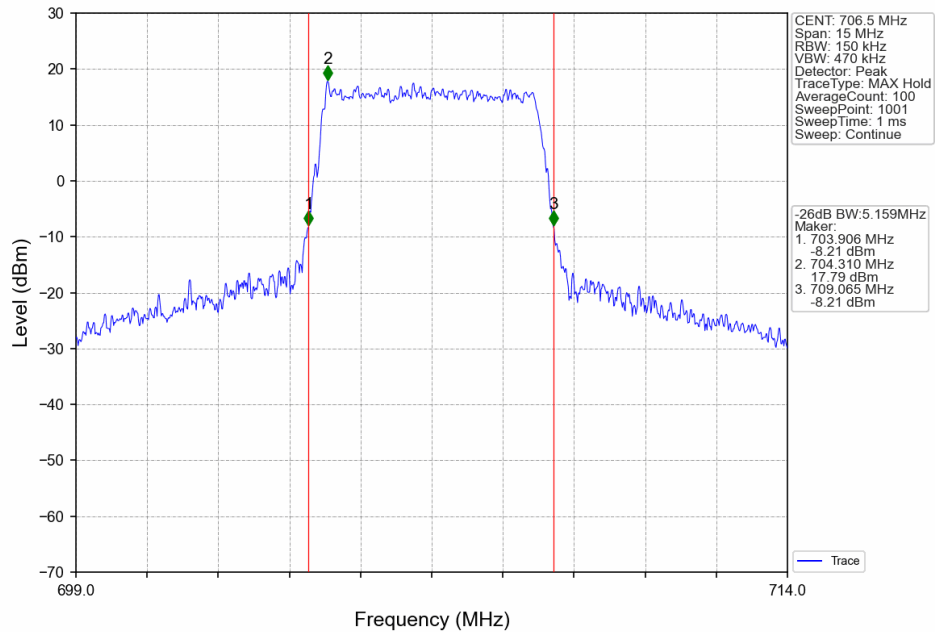
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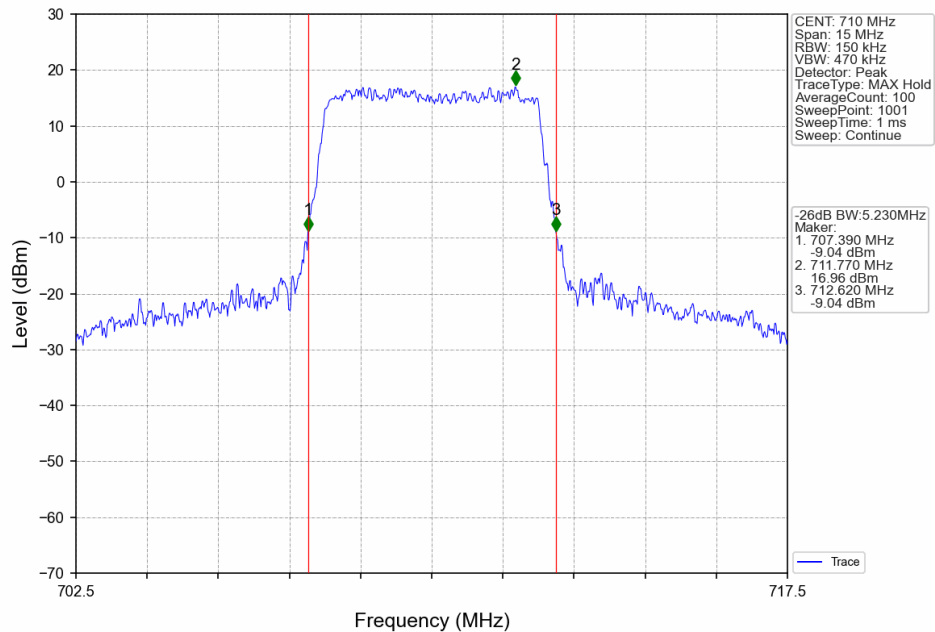
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Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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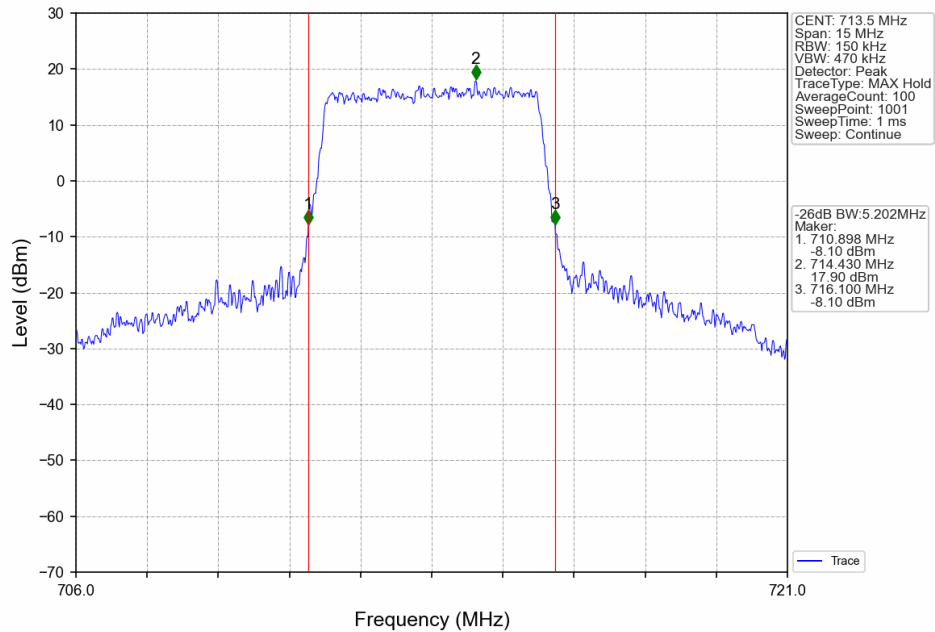
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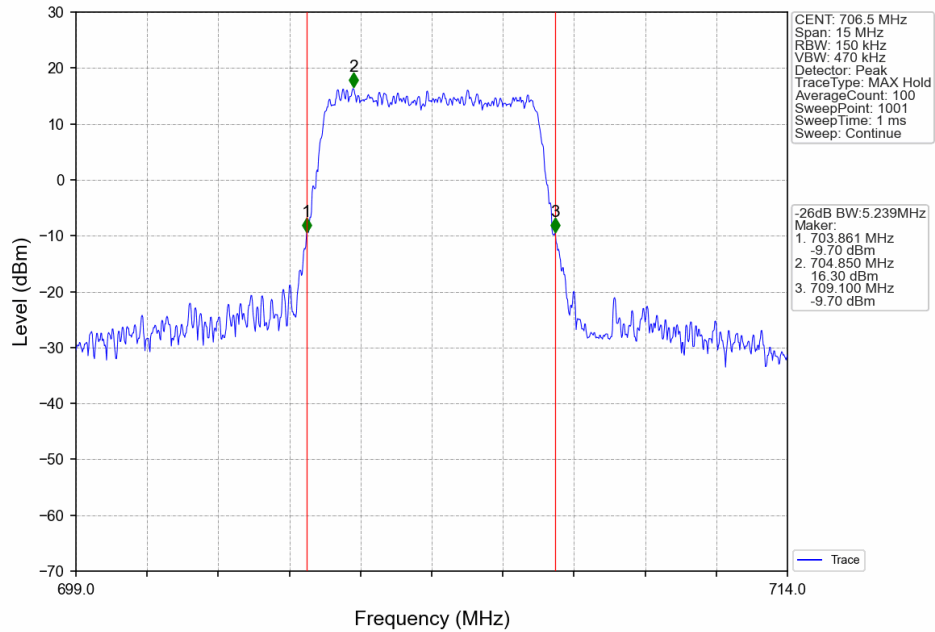
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Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



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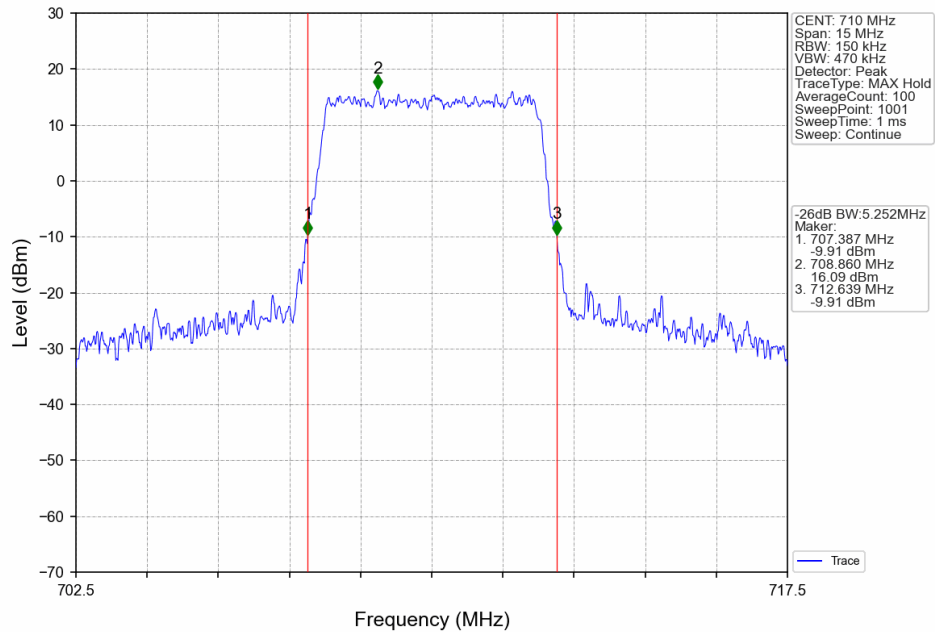
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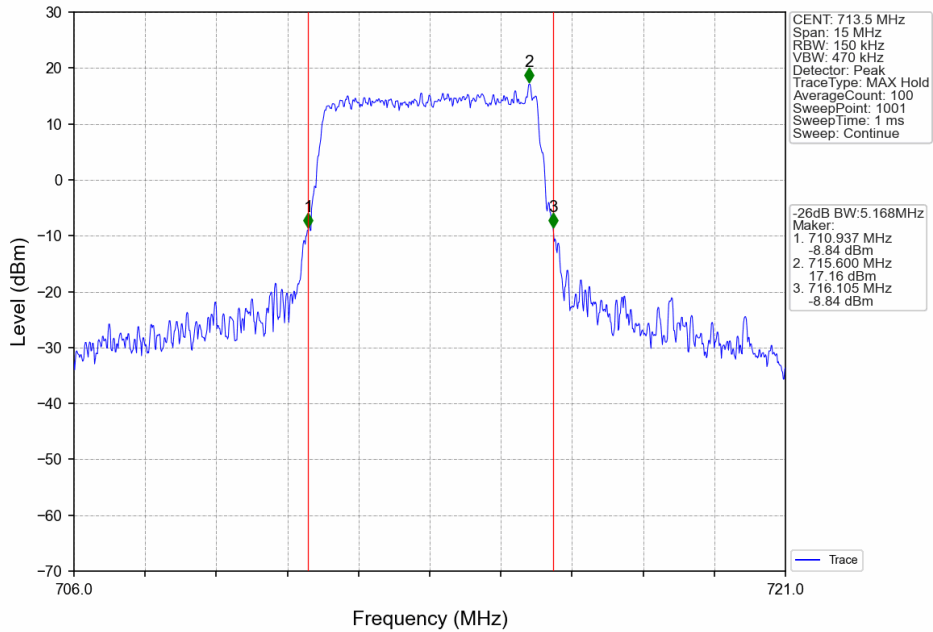
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Band17 5MHz 64QAM HCH 713.5MHz RB 25 0 NTN



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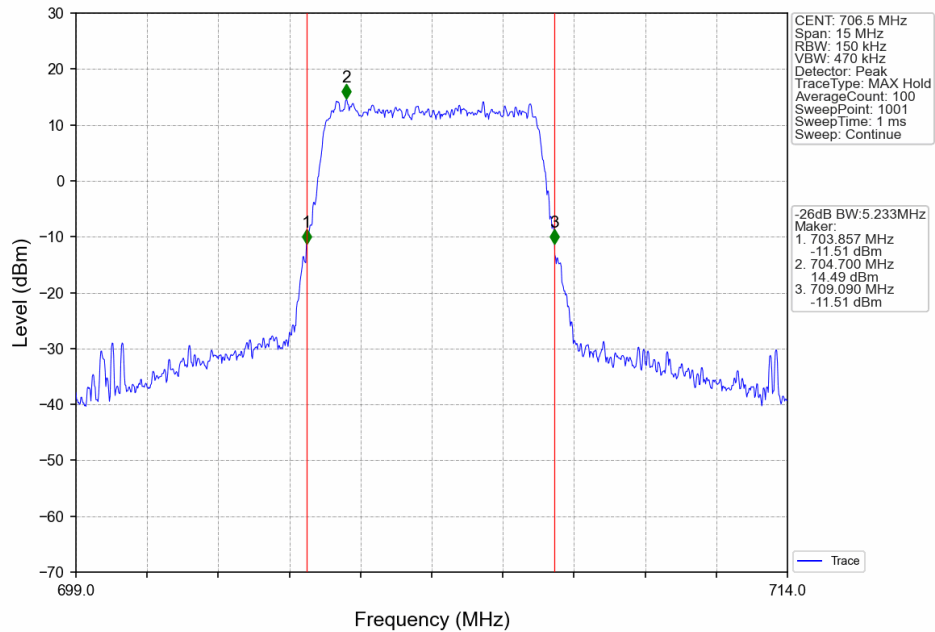
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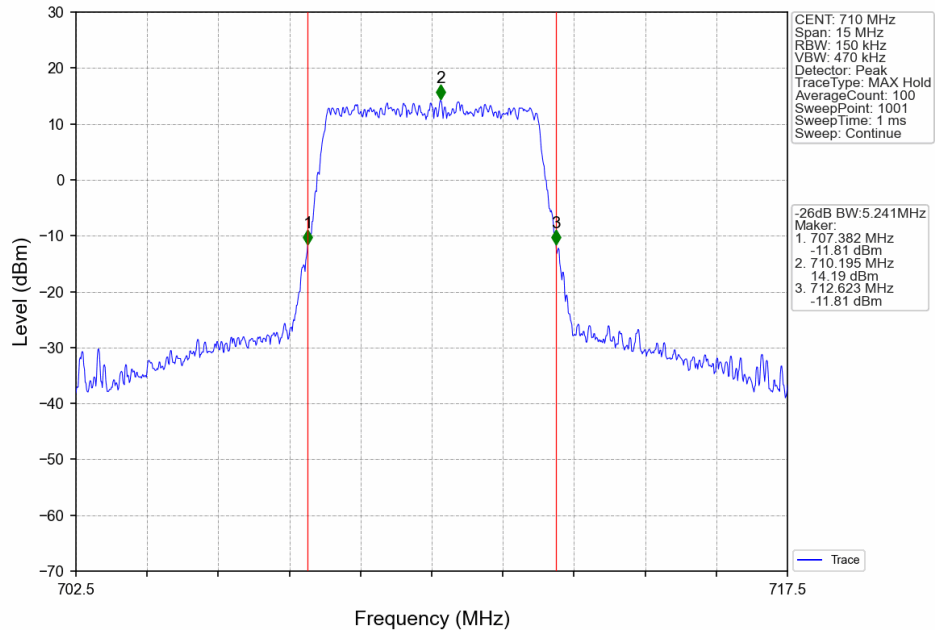
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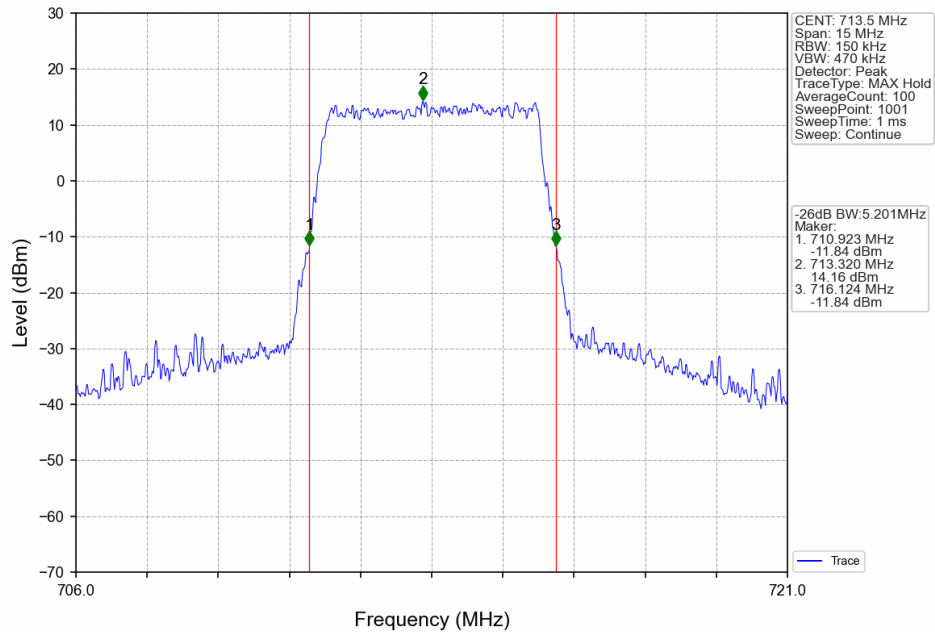
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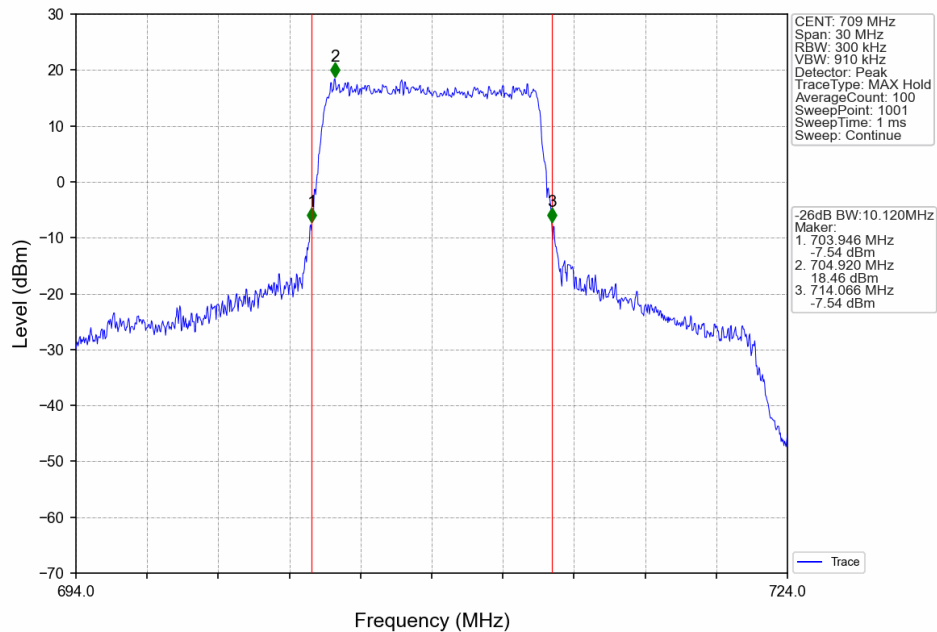
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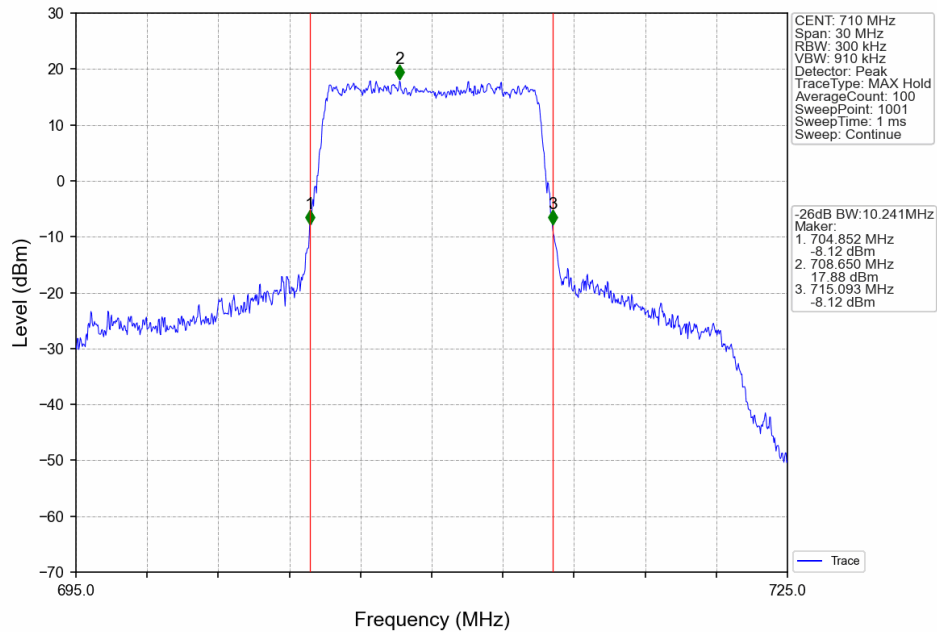
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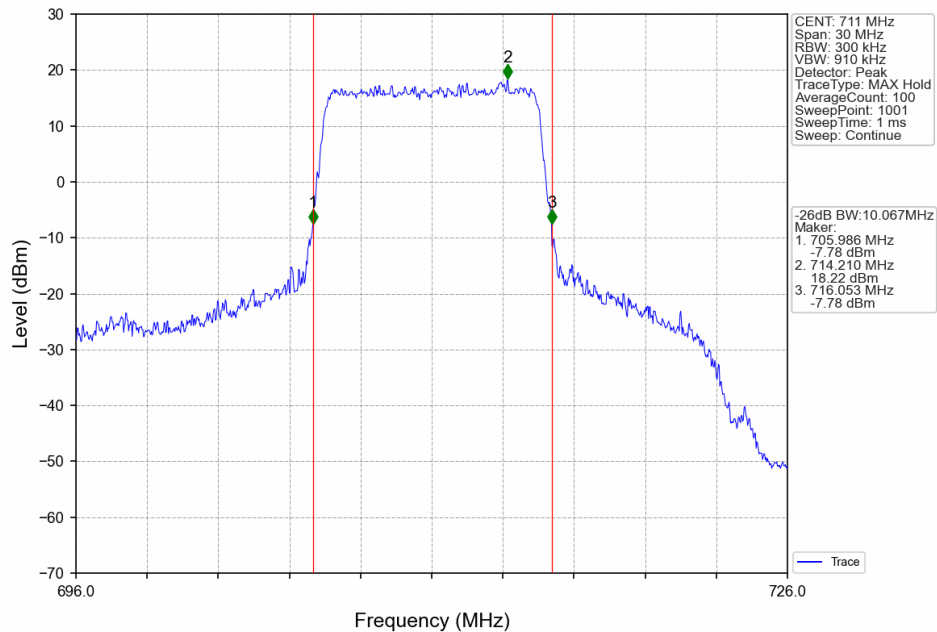
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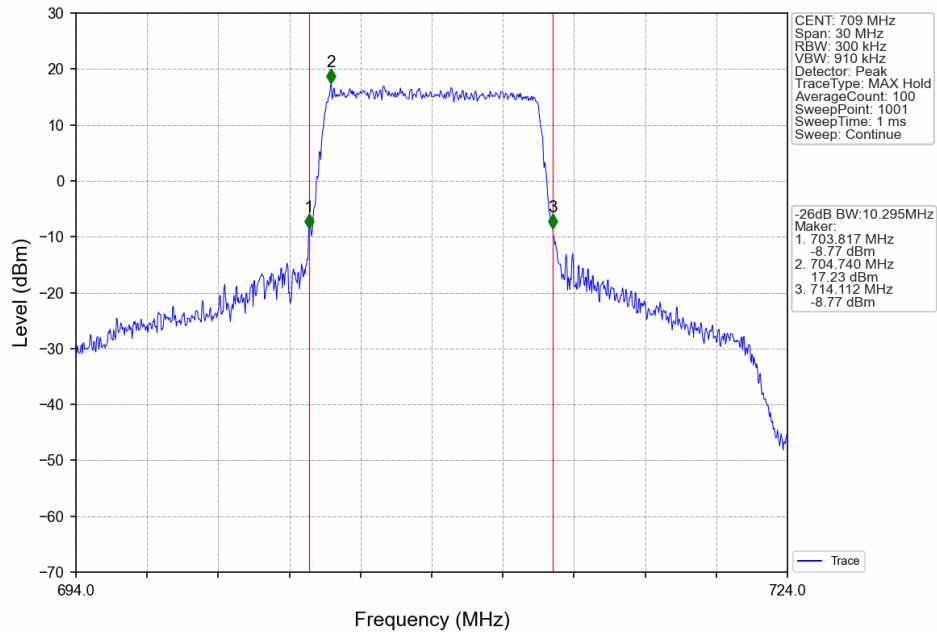
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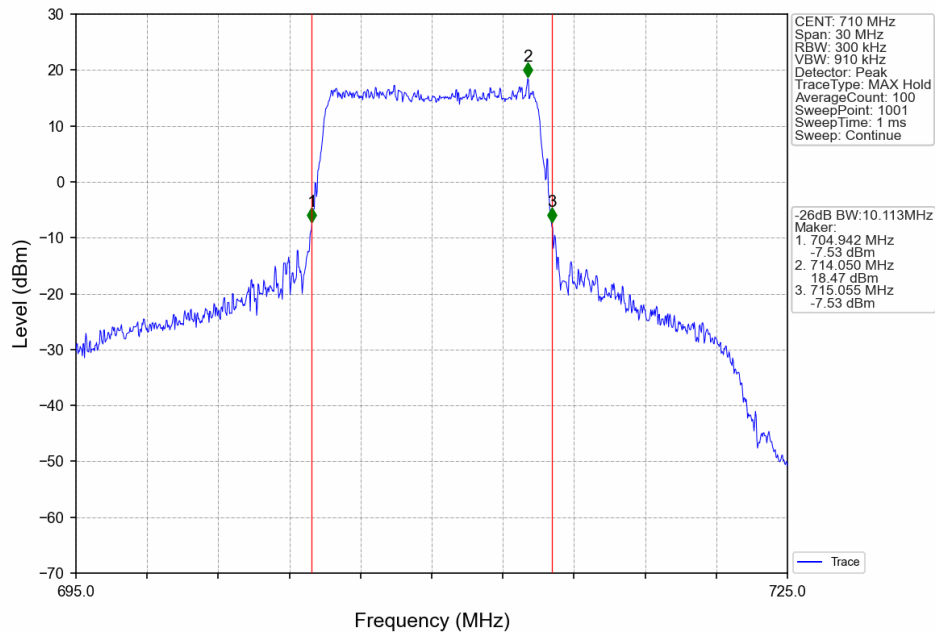
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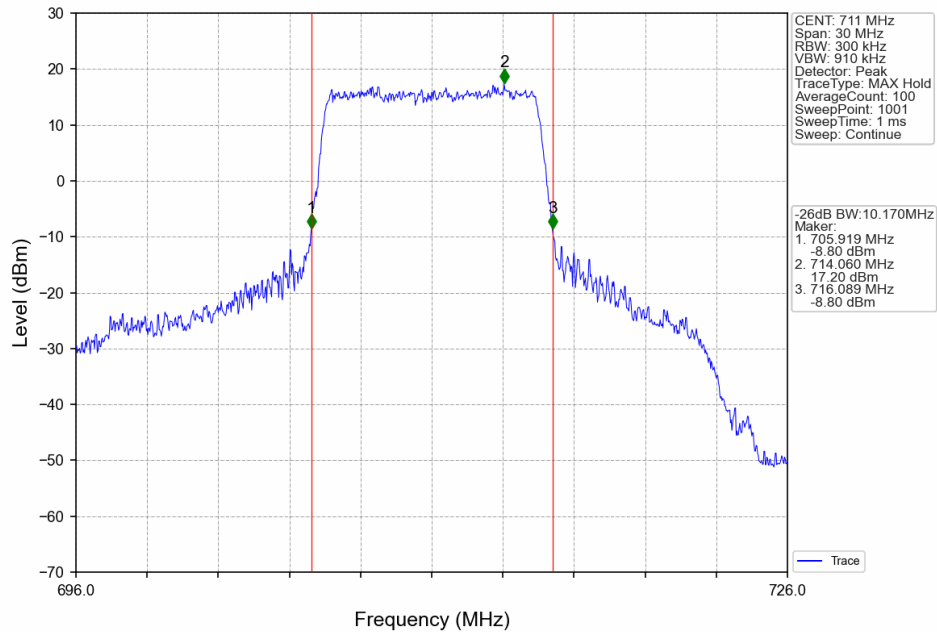
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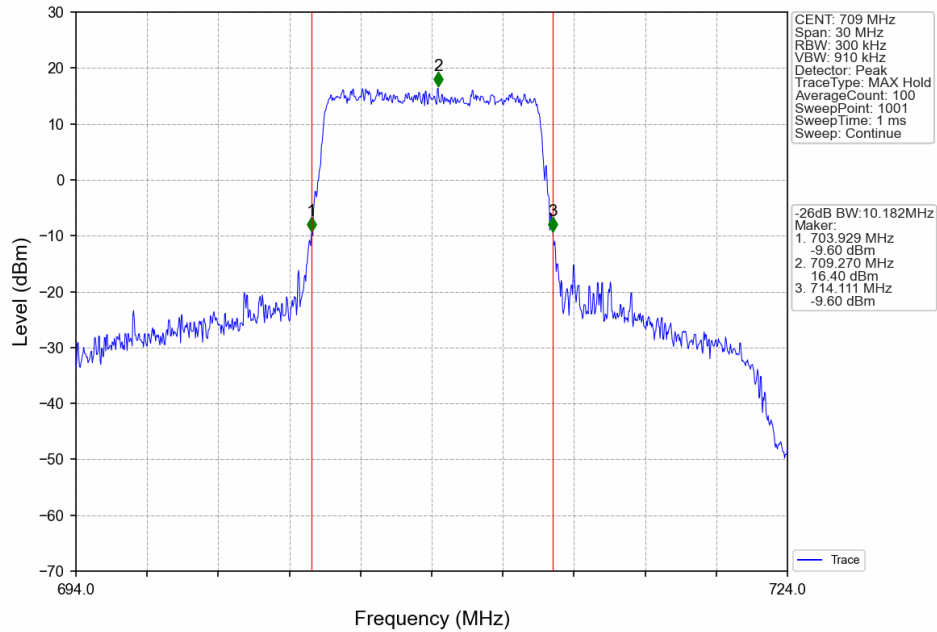
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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



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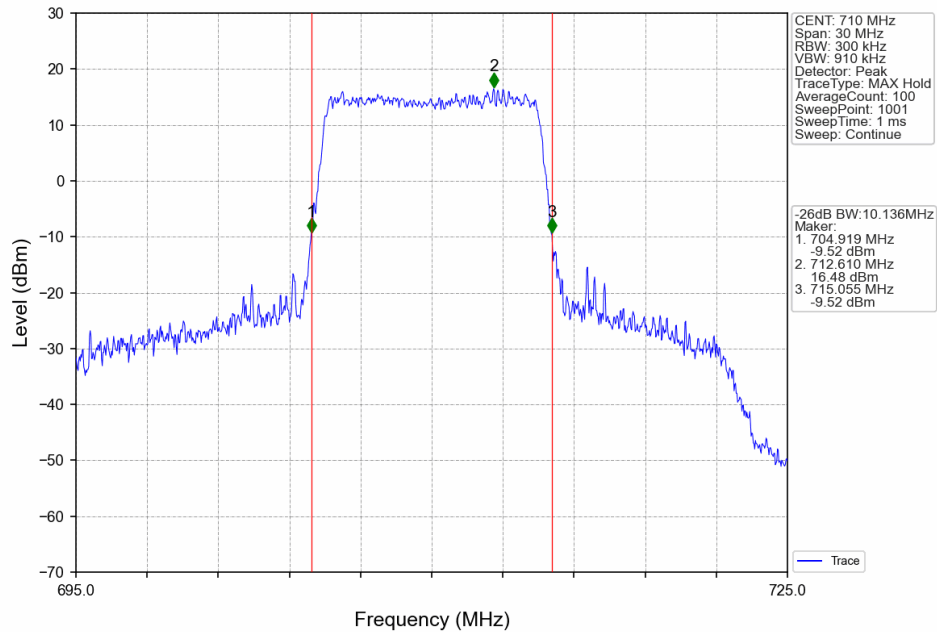
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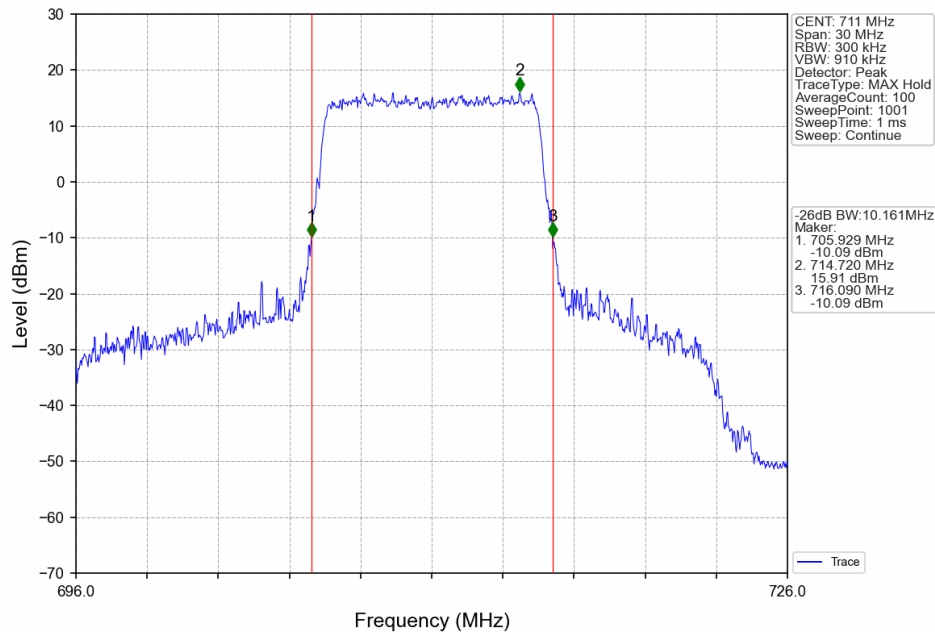
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Band17 10MHz 64QAM HCH 711MHz RB 50 0 NTV



Band17 10MHz 256QAM LCH 709MHz RB 50 0 NTV



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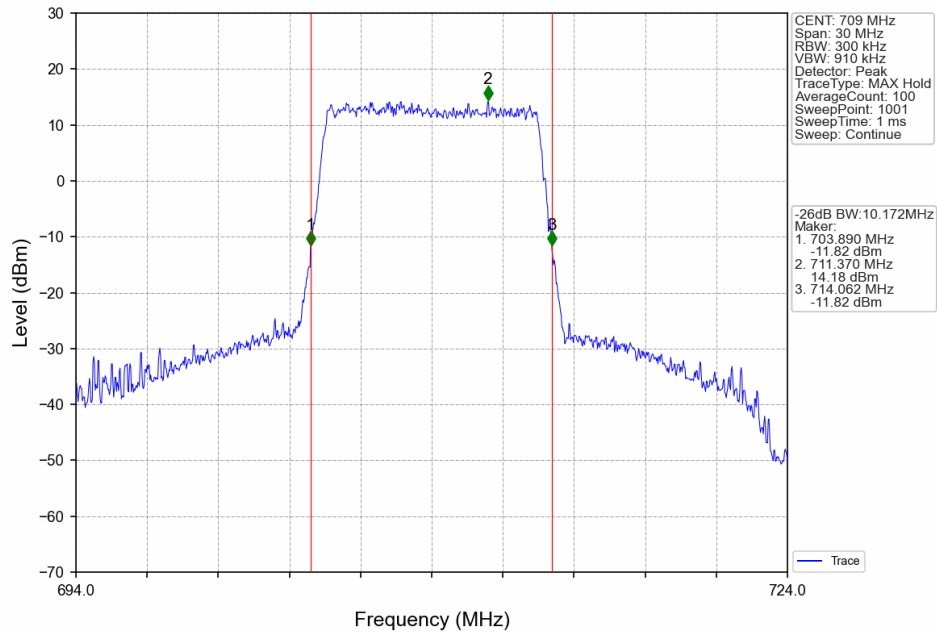
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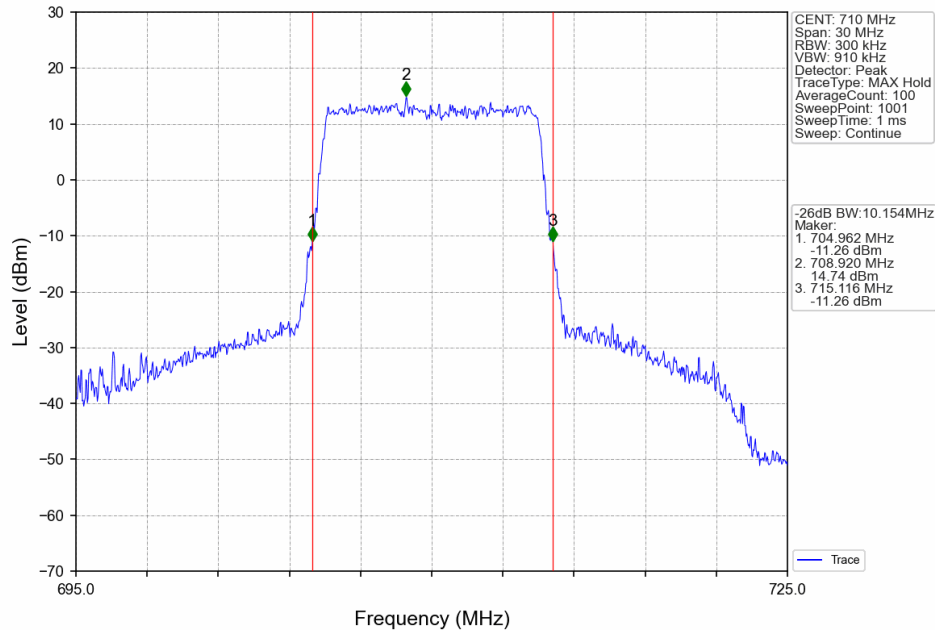
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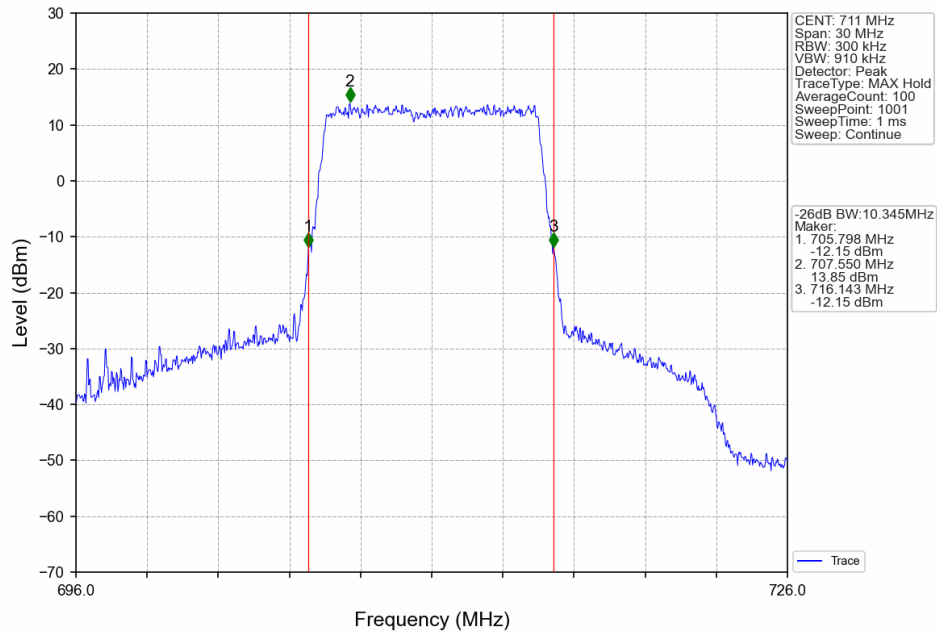
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5. Peak-Average Ratio

5.1 B17_5MHz

5.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.31	<=13	Pass
	710	25	0	5.54	<=13	Pass
	713.5	25	0	5.30	<=13	Pass
16QAM	706.5	25	0	6.23	<=13	Pass
	710	25	0	6.41	<=13	Pass
	713.5	25	0	6.14	<=13	Pass
64QAM	706.5	25	0	10.69	<=13	Pass
	710	25	0	10.88	<=13	Pass
	713.5	25	0	9.96	<=13	Pass
256QAM	706.5	25	0	6.94	<=13	Pass
	710	25	0	7.03	<=13	Pass
	713.5	25	0	6.90	<=13	Pass



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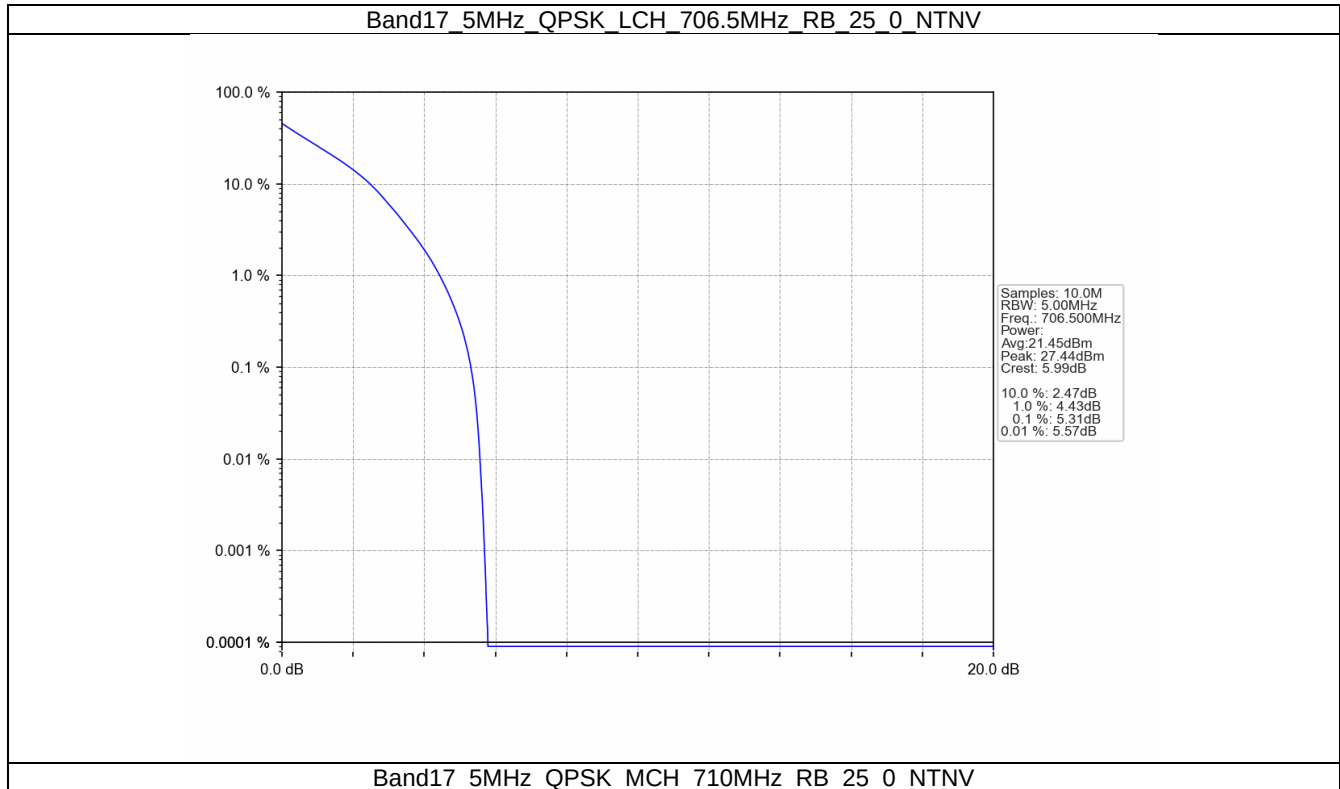
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5.1.2 Test Graph



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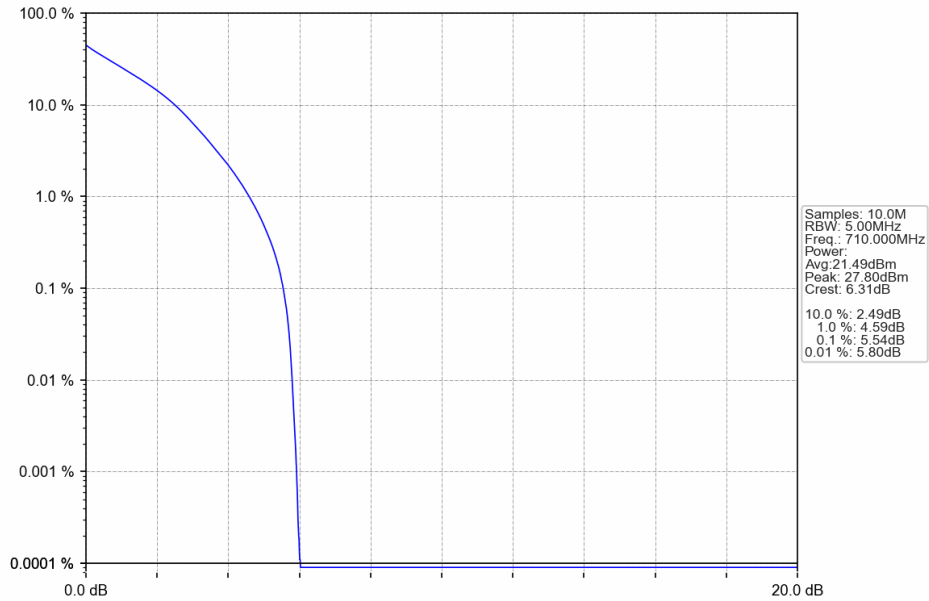
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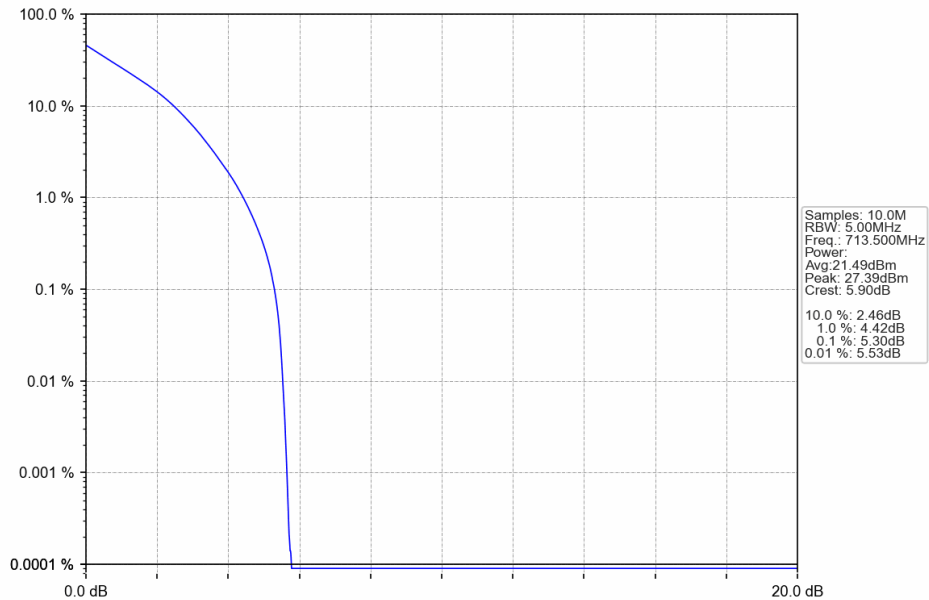
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



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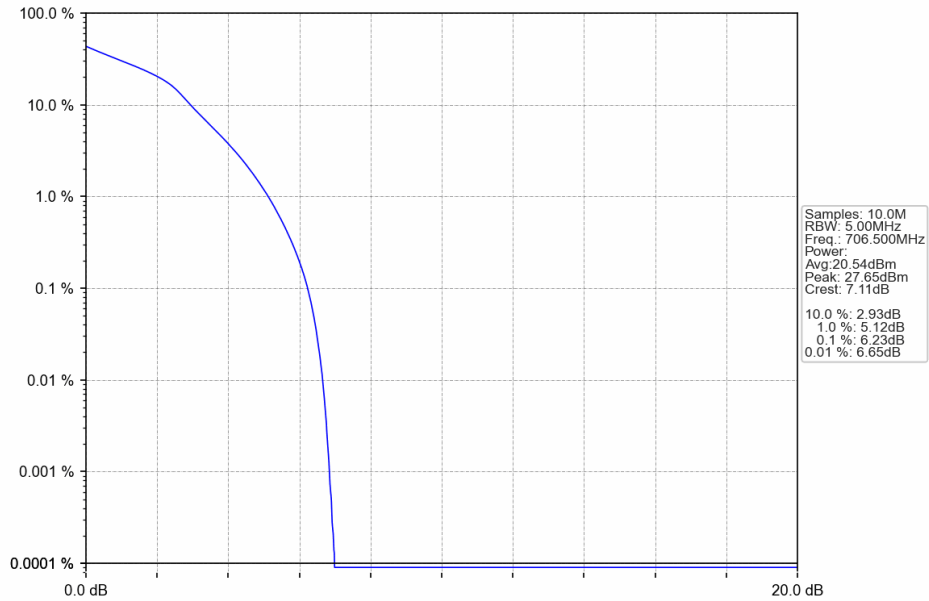
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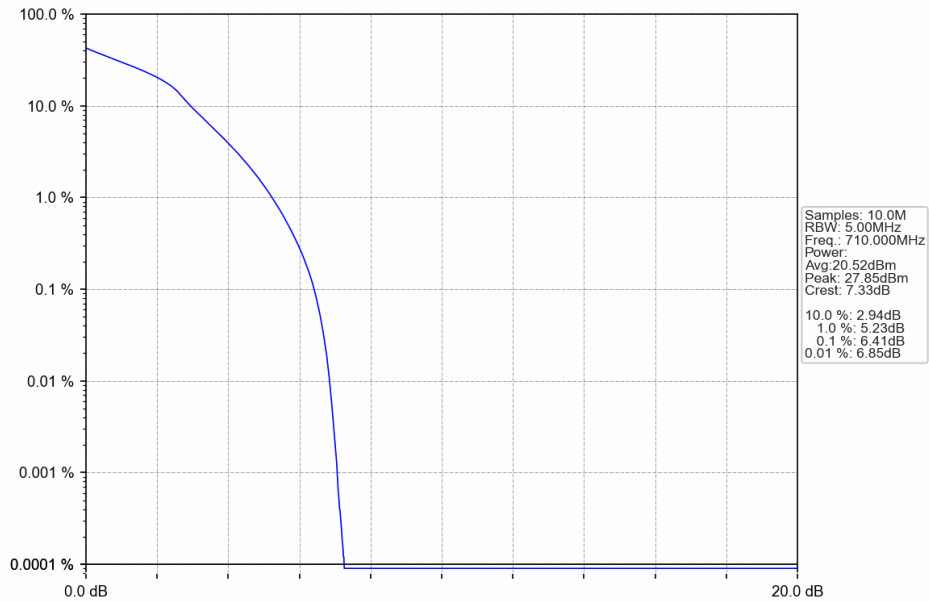
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Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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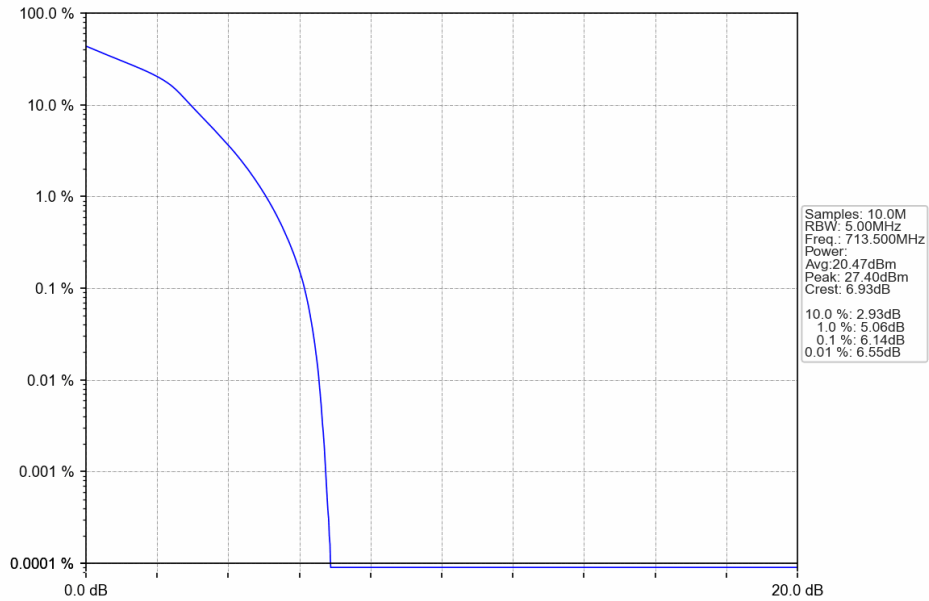
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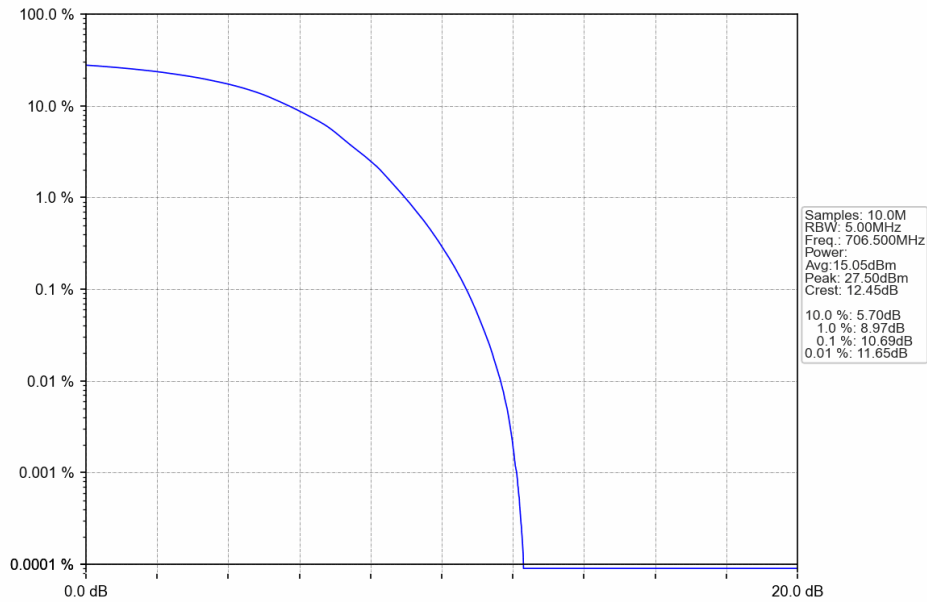
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Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



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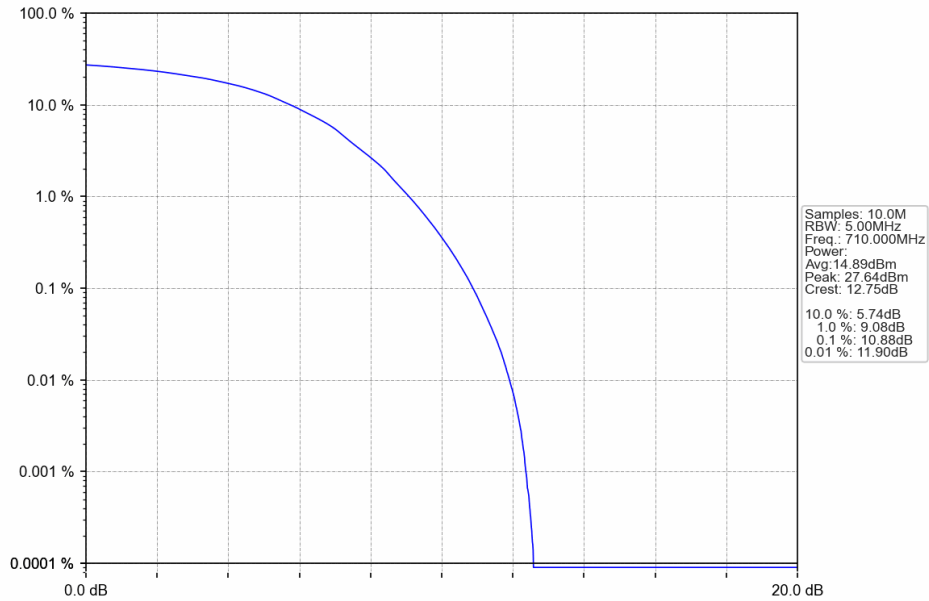
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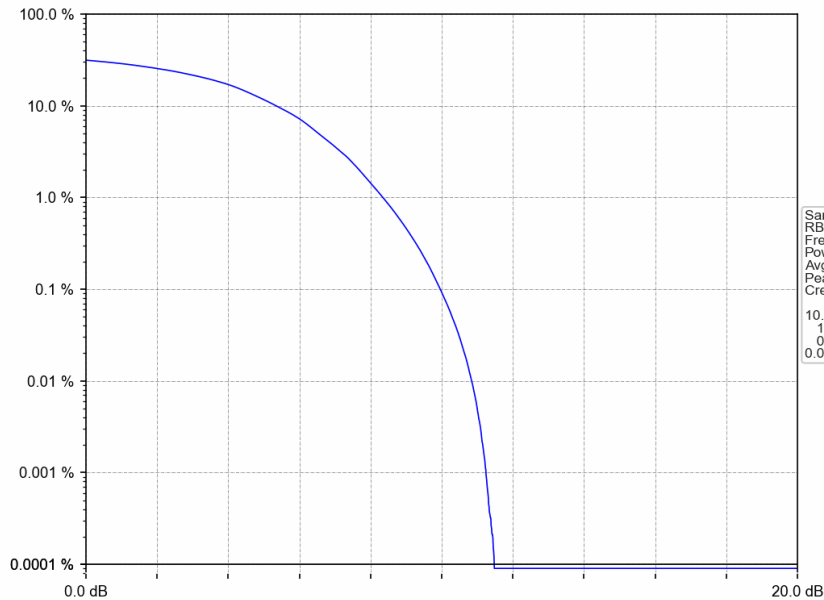
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Band17 5MHz 64QAM HCH 713.5MHz RB 25 0 NTN



Band17 5MHz 256QAM LCH 706.5MHz RB 25 0 NTN



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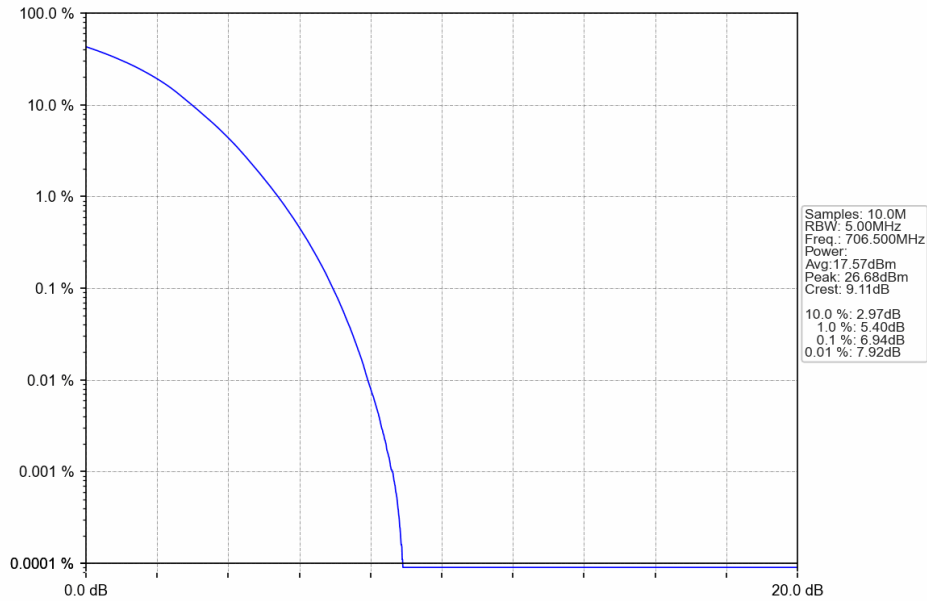
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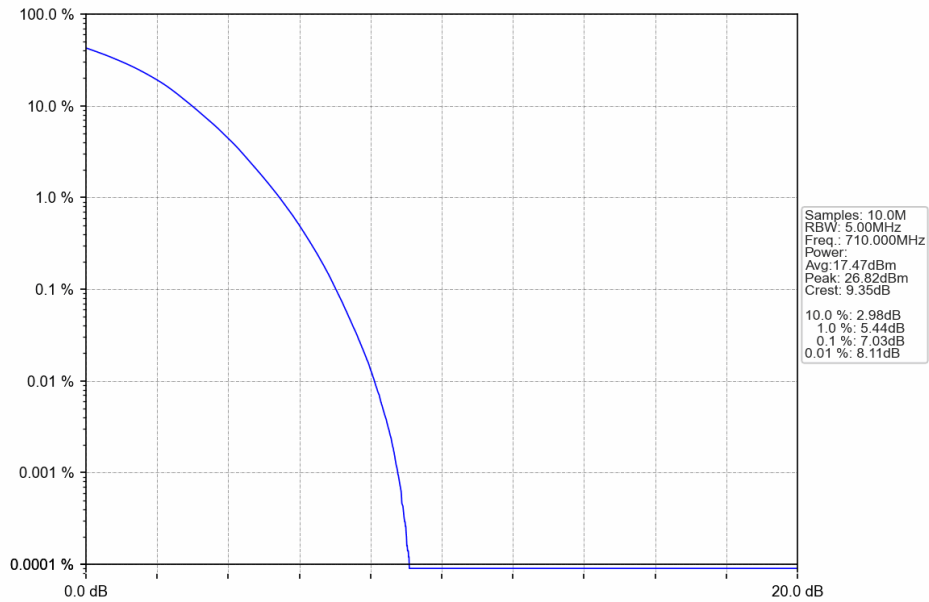
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Band17_5MHz_256QAM_HCH_713.5MHz_RB_25_0_NTNV



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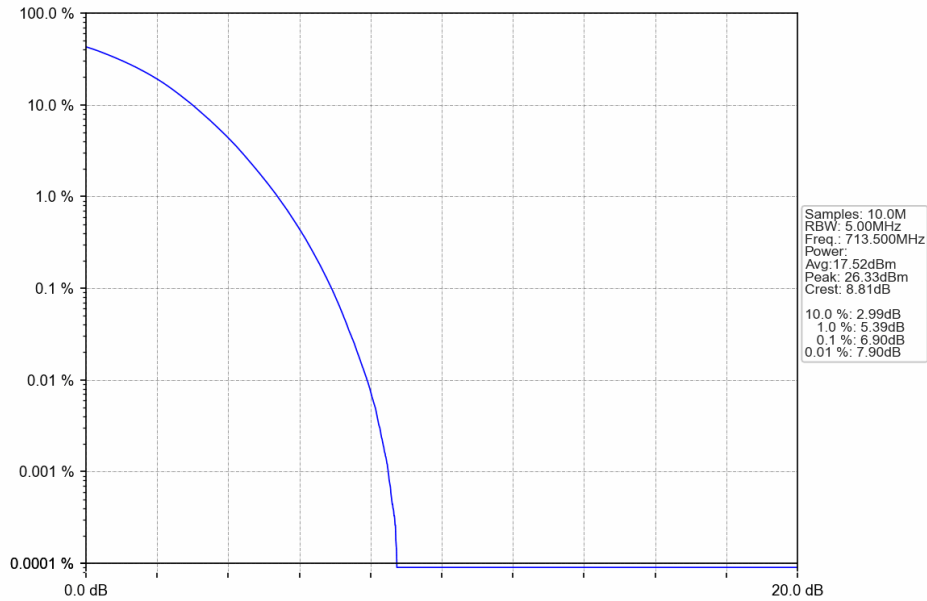
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5.2 B17_10MHz

5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.44	<=13	Pass
	710	50	0	5.46	<=13	Pass
	711	50	0	5.45	<=13	Pass
16QAM	709	50	0	6.28	<=13	Pass
	710	50	0	6.30	<=13	Pass
	711	50	0	6.29	<=13	Pass
64QAM	709	50	0	6.70	<=13	Pass
	710	50	0	12.63	<=13	Pass
	711	50	0	11.96	<=13	Pass
256QAM	709	50	0	6.93	<=13	Pass
	710	50	0	6.95	<=13	Pass
	711	50	0	6.94	<=13	Pass



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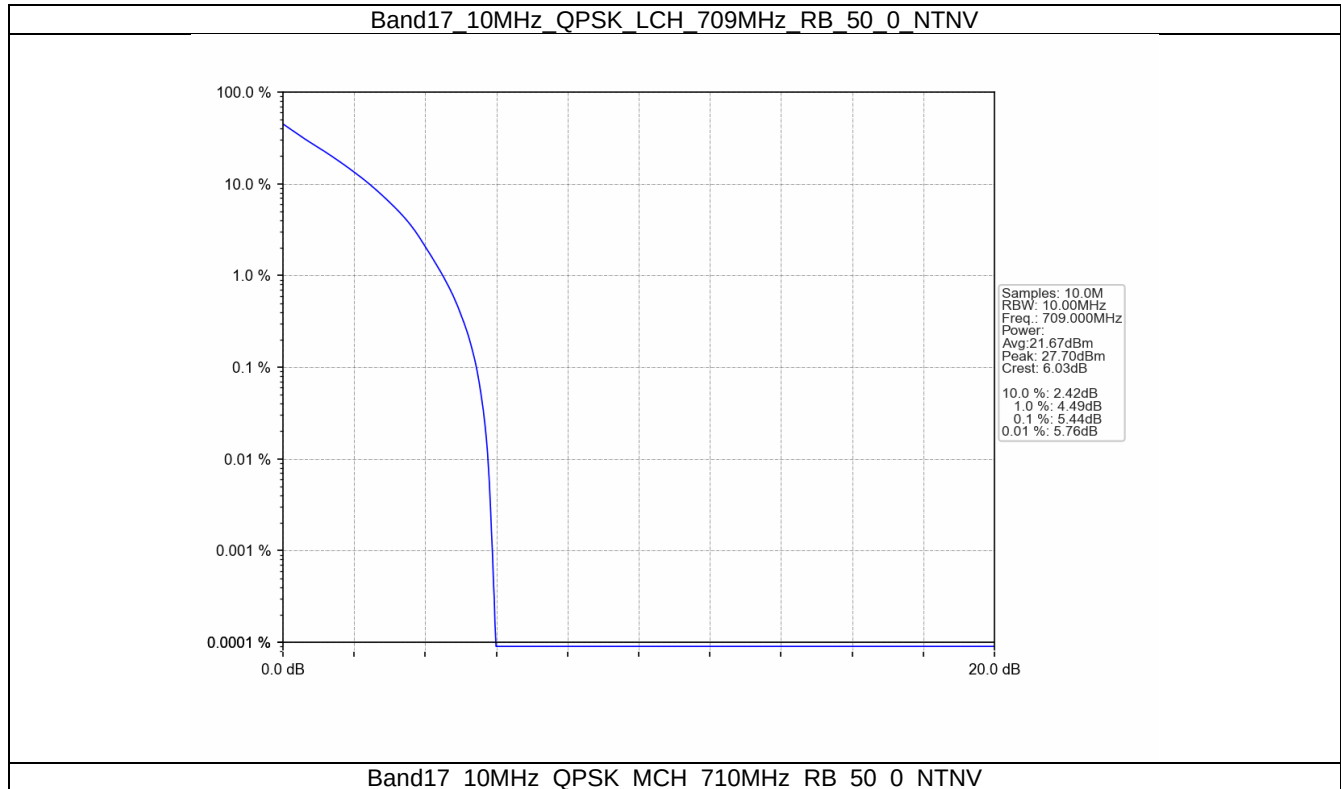
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5.2.2 Test Graph



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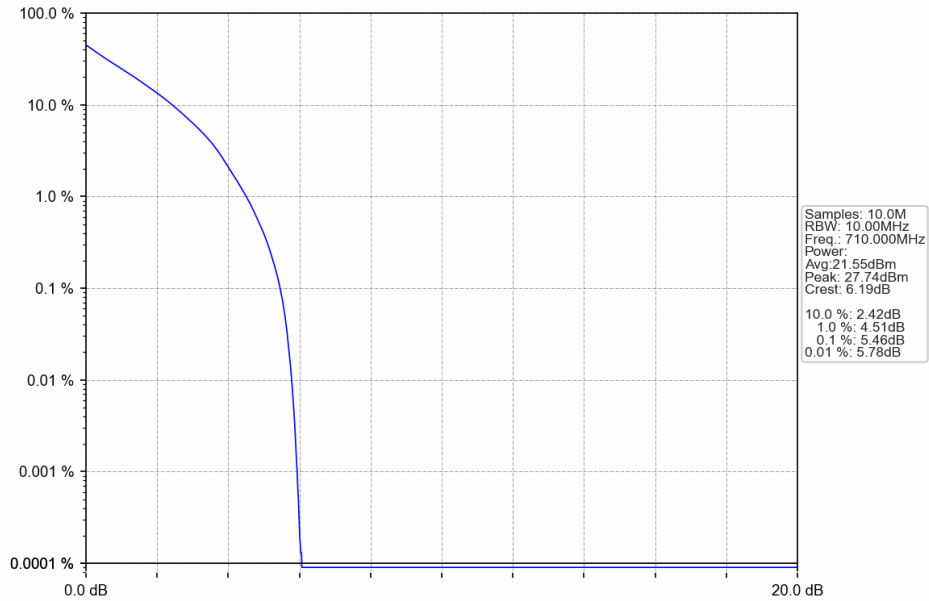
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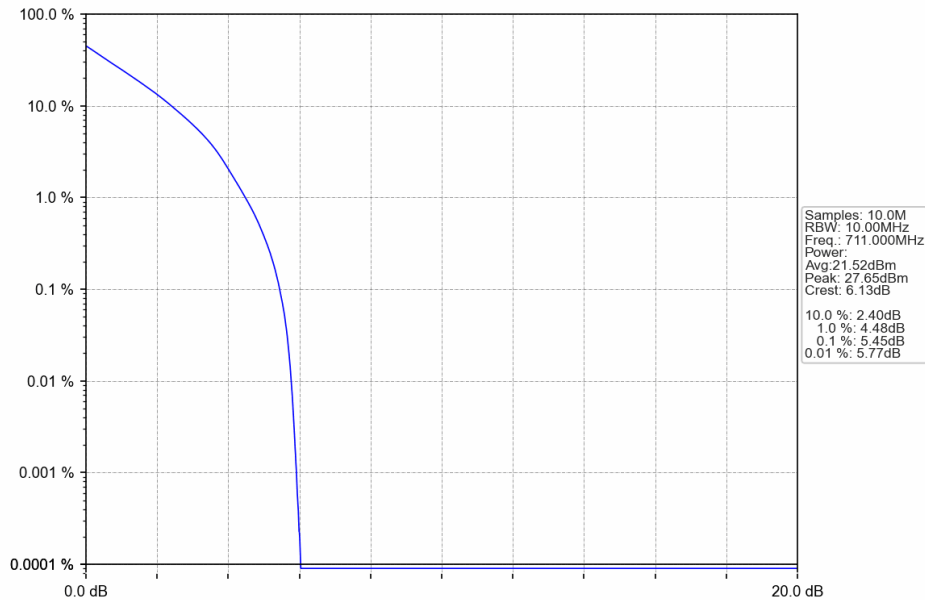
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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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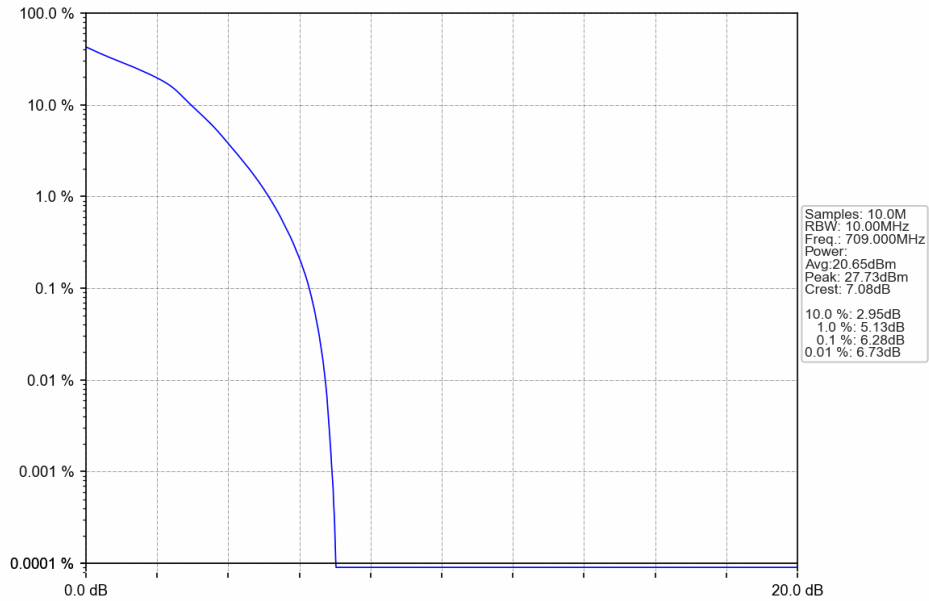
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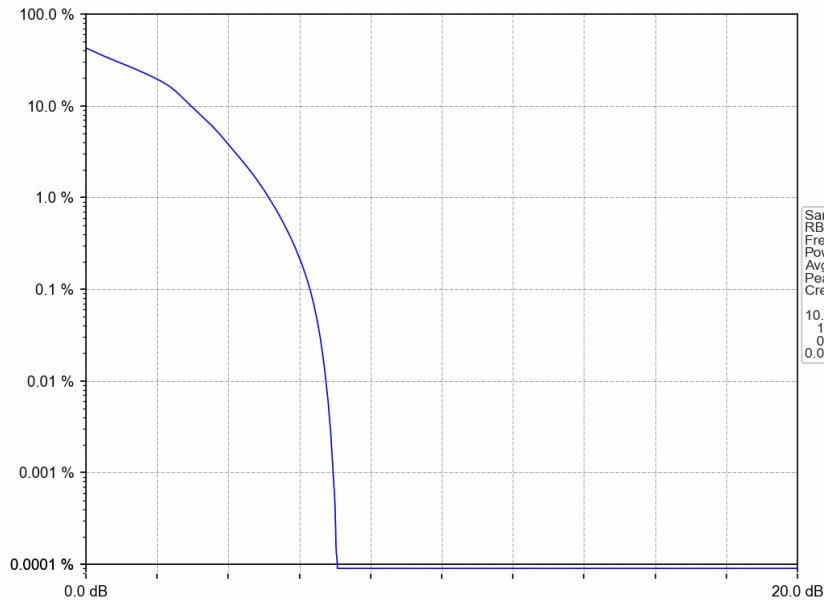
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Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq.: 710.000MHz
Power:
Avg: 20.57dBm
Peak: 27.73dBm
Crest: 7.16dB
10.0 %: 2.95dB
1.0 %: 5.14dB
0.1 %: 6.30dB
0.01 %: 6.75dB

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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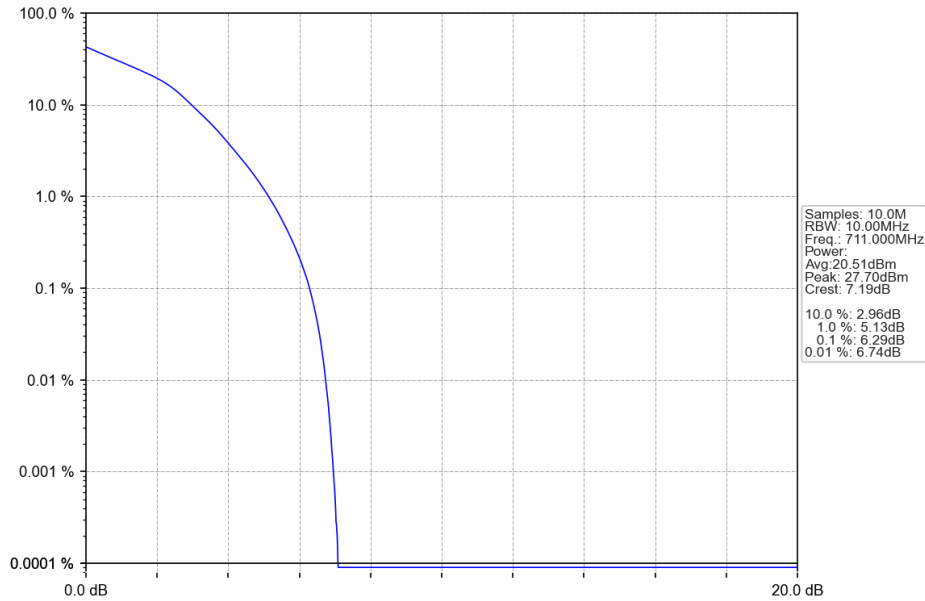
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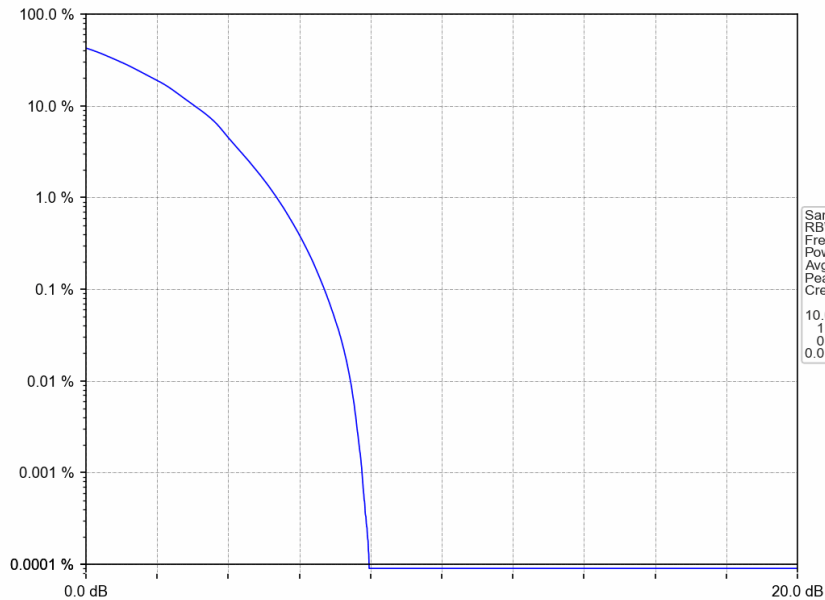
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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq.: 709.000MHz
Power:
Avg: 19.67dBm
Peak: 27.75dBm
Crest: 8.08dB
10.0 %: 3.05dB
1.0 %: 5.36dB
0.1 %: 6.70dB
0.01 %: 7.43dB

Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



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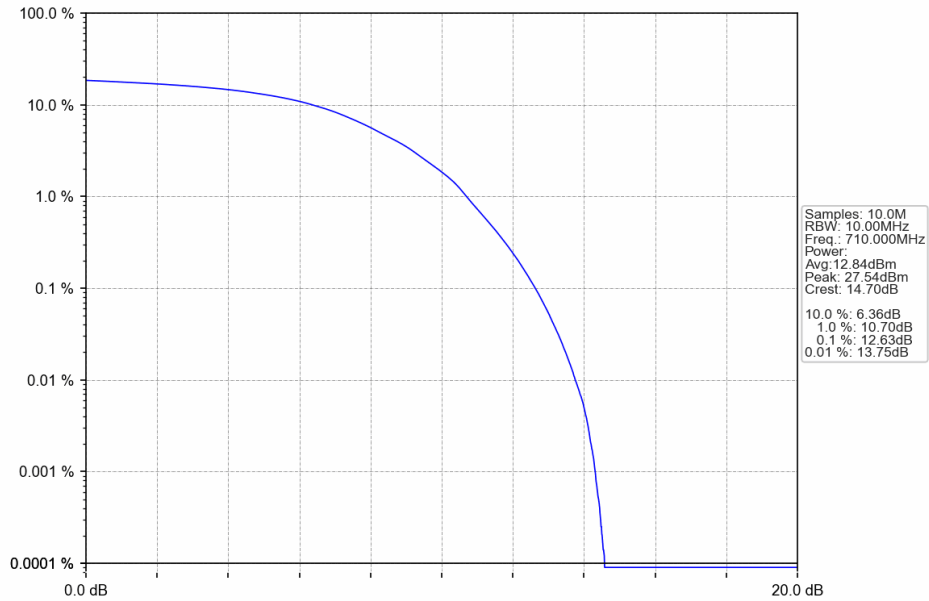
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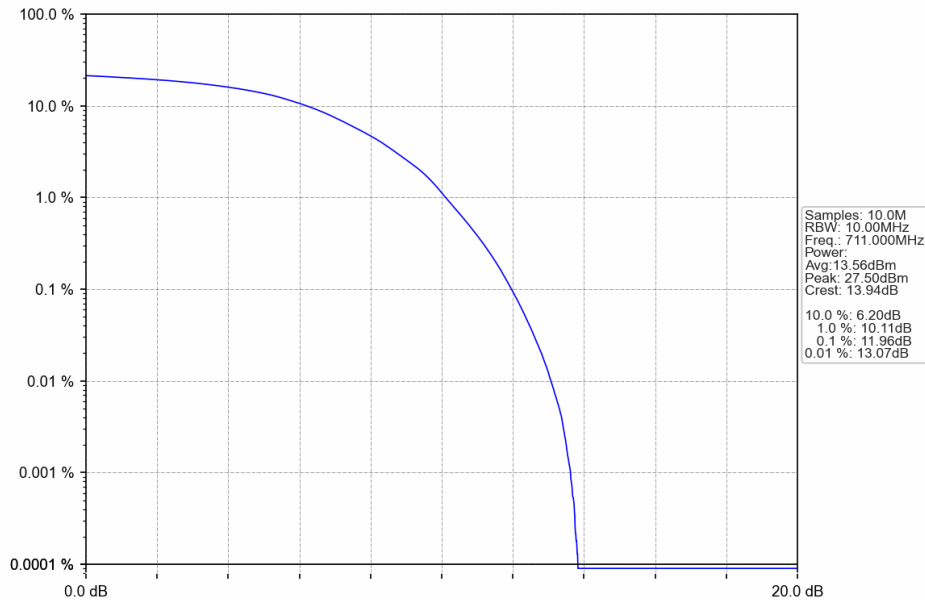
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Band17 10MHz 64QAM HCH 711MHz RB 50 0 NTNV



Band17 10MHz 256QAM LCH 709MHz RB 50 0 NTNV



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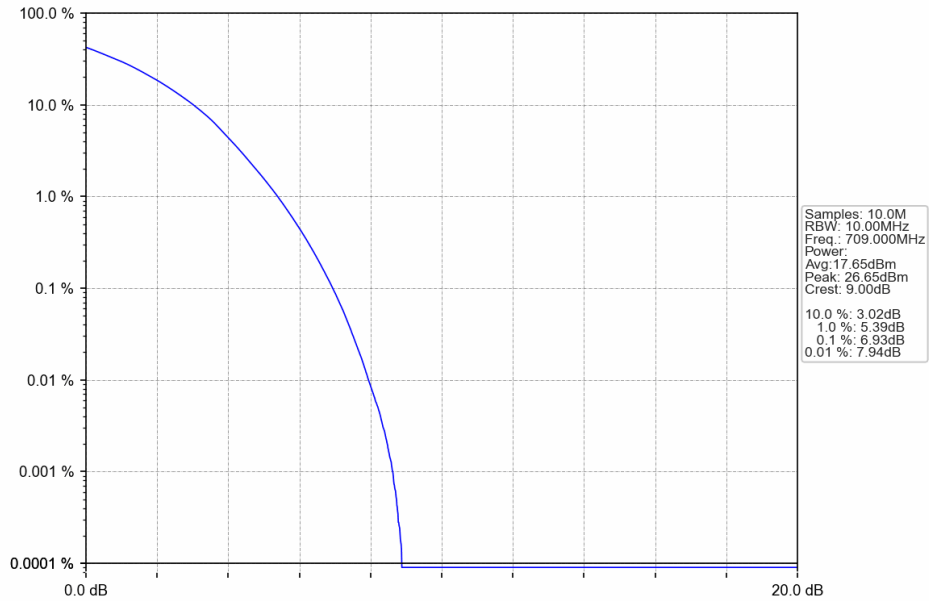
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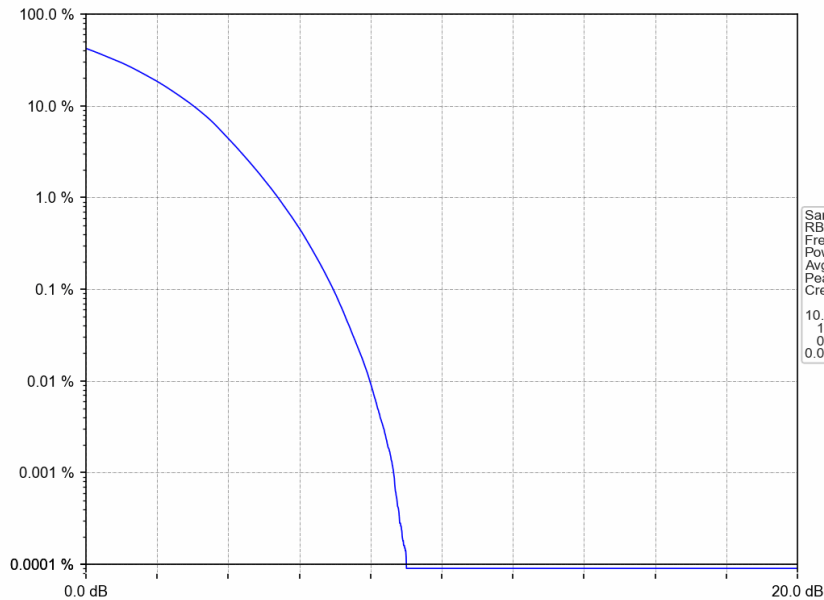
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Band17 10MHz 256QAM MCH 710MHz RB 50 0 NTN



Band17 10MHz 256QAM HCH 711MHz RB 50 0 NTN



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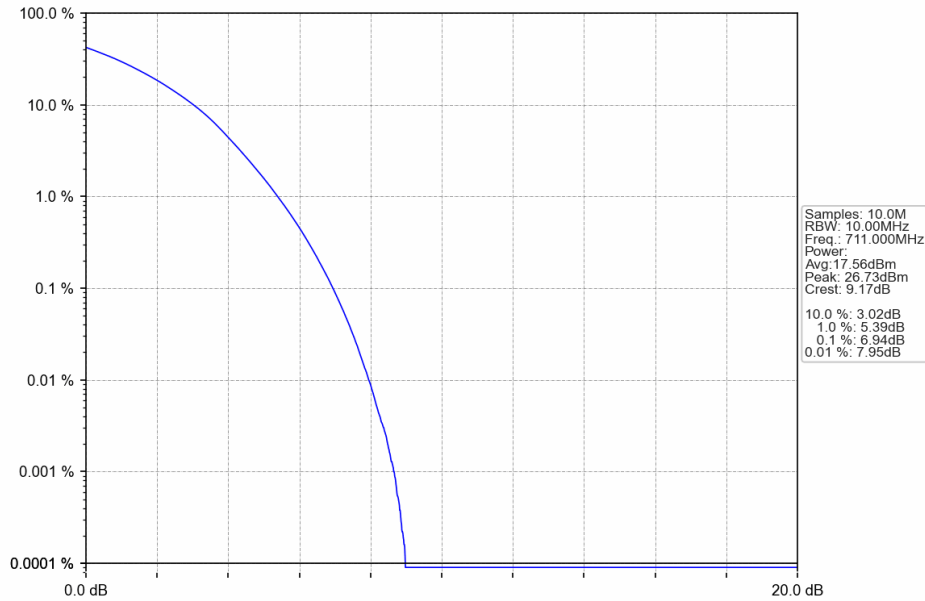
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6. Spurious Emission & Band Edges

6.1 B17_5MHz

6.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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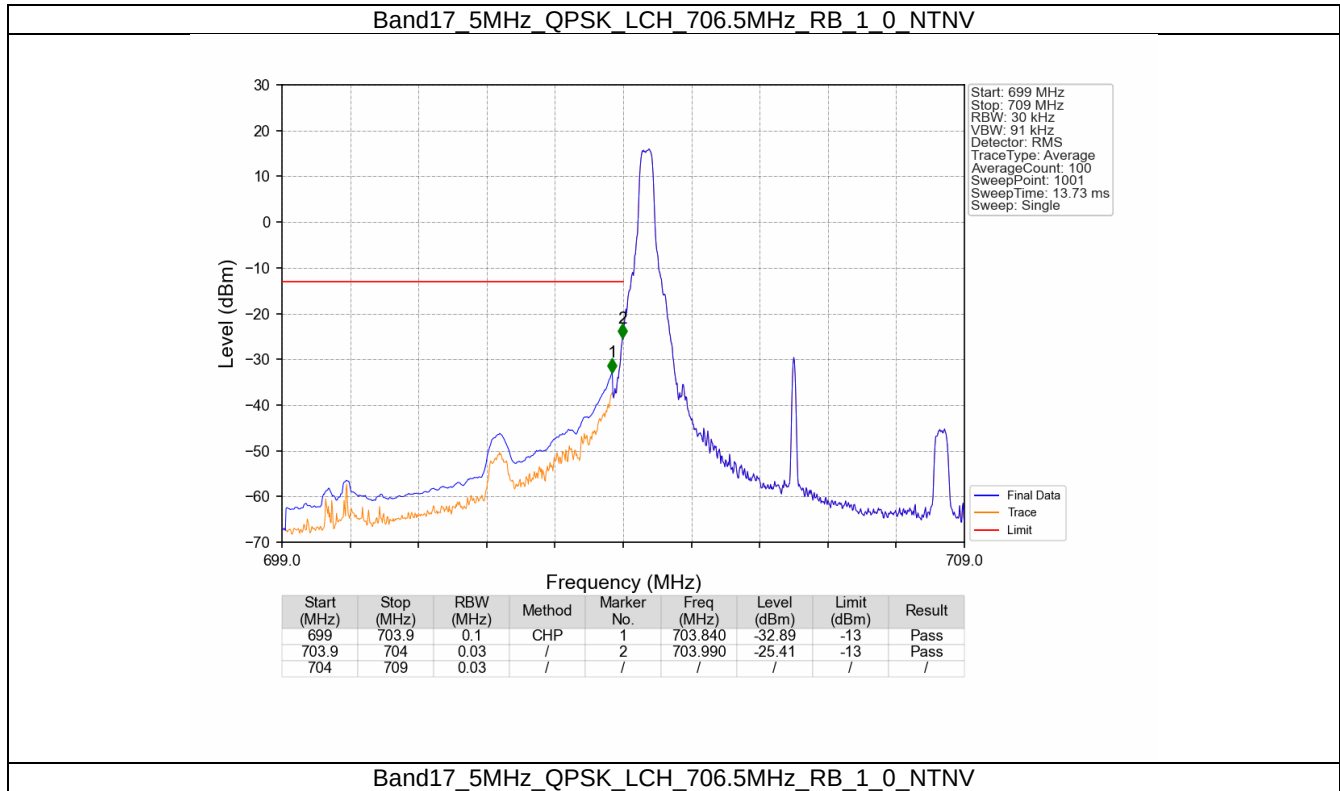
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6.1.2 Test Graph



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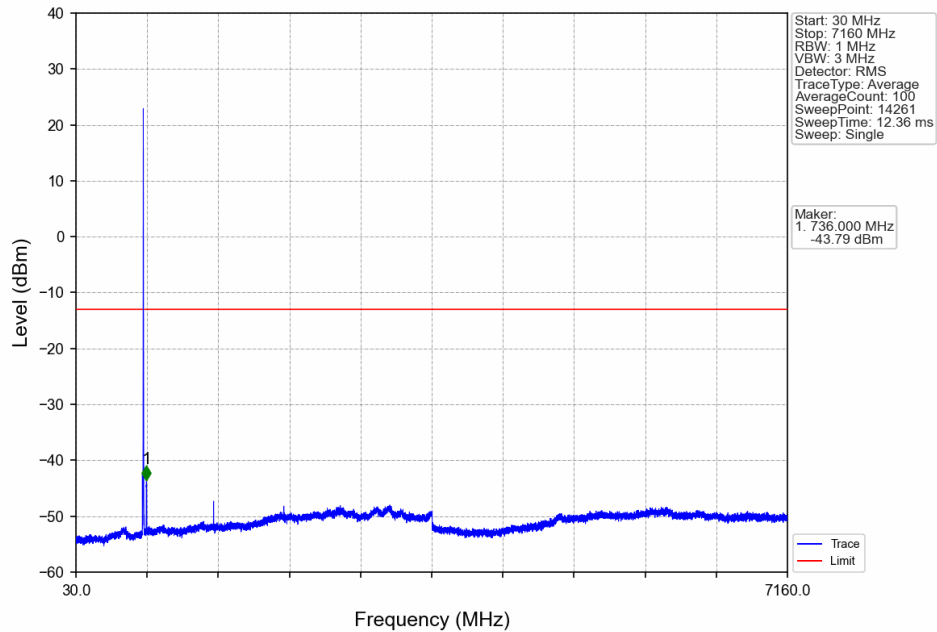
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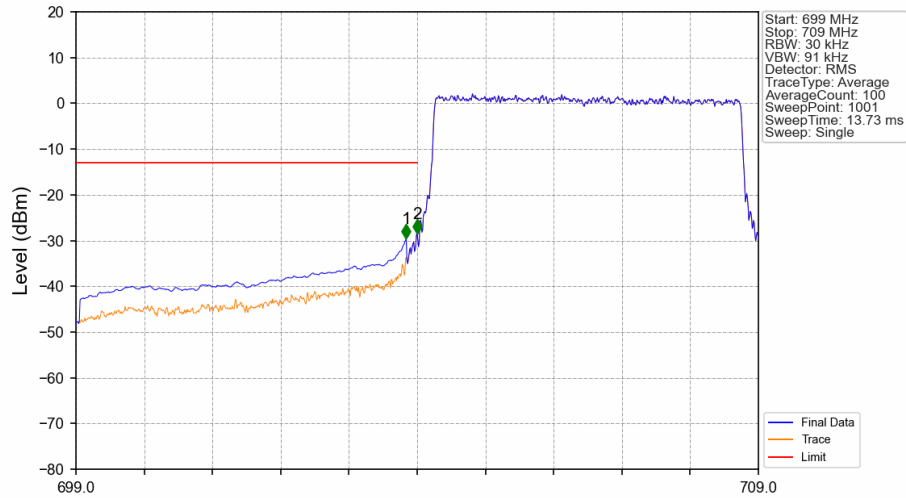
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Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-29.52	-13	Pass
703.9	704	0.03	/	2	704.000	-28.57	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



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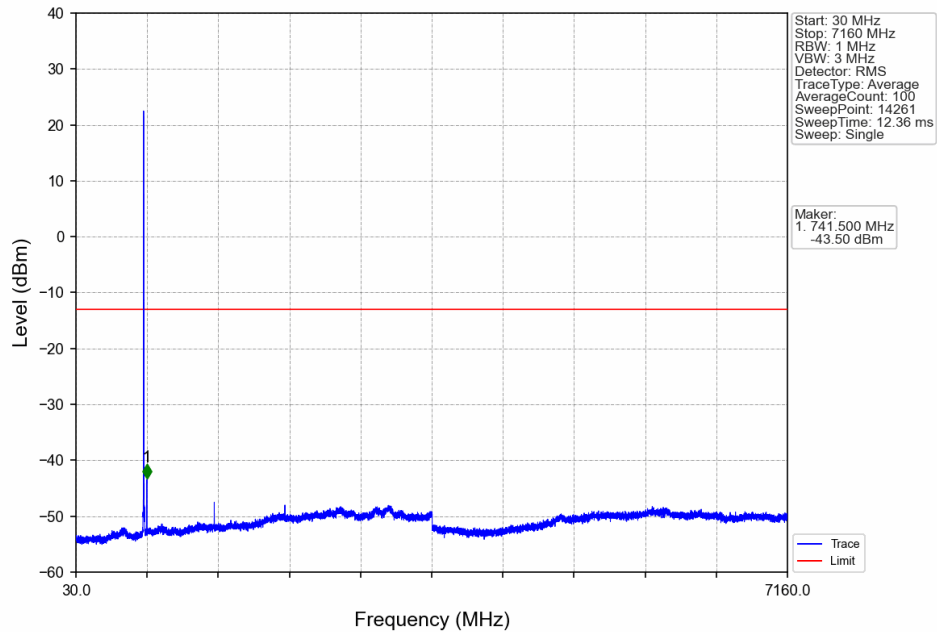
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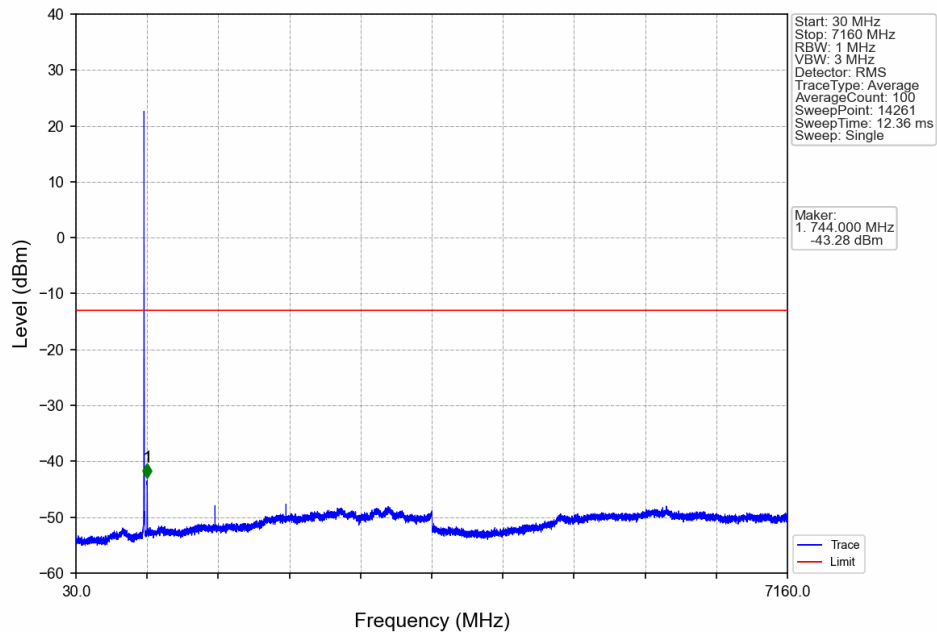
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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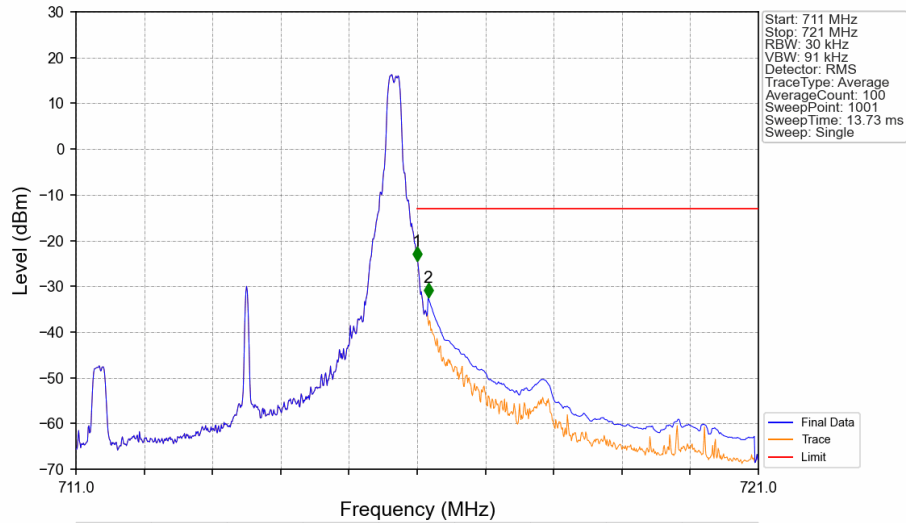
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-24.51	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.44	-13	Pass



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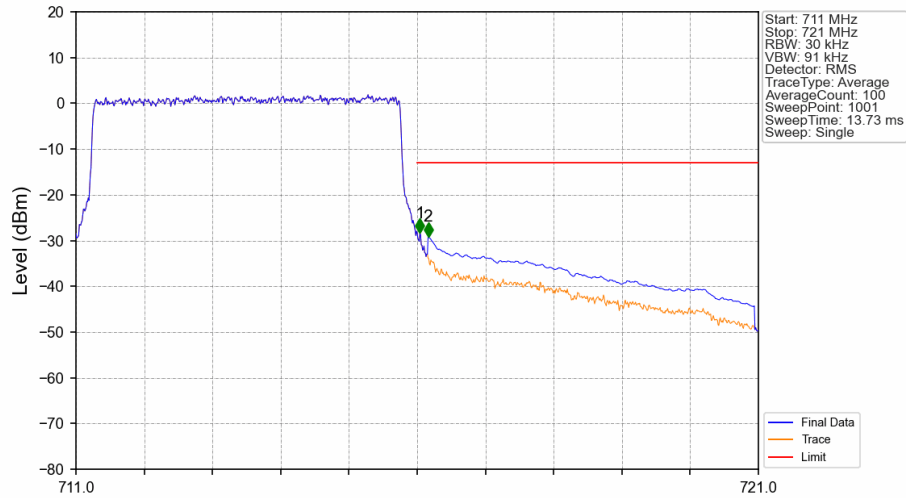
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-28.29	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.12	-13	Pass



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6.2 B17_10MHz

6.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	709	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	710	1	0	Refer To Test Graph	Pass
	711	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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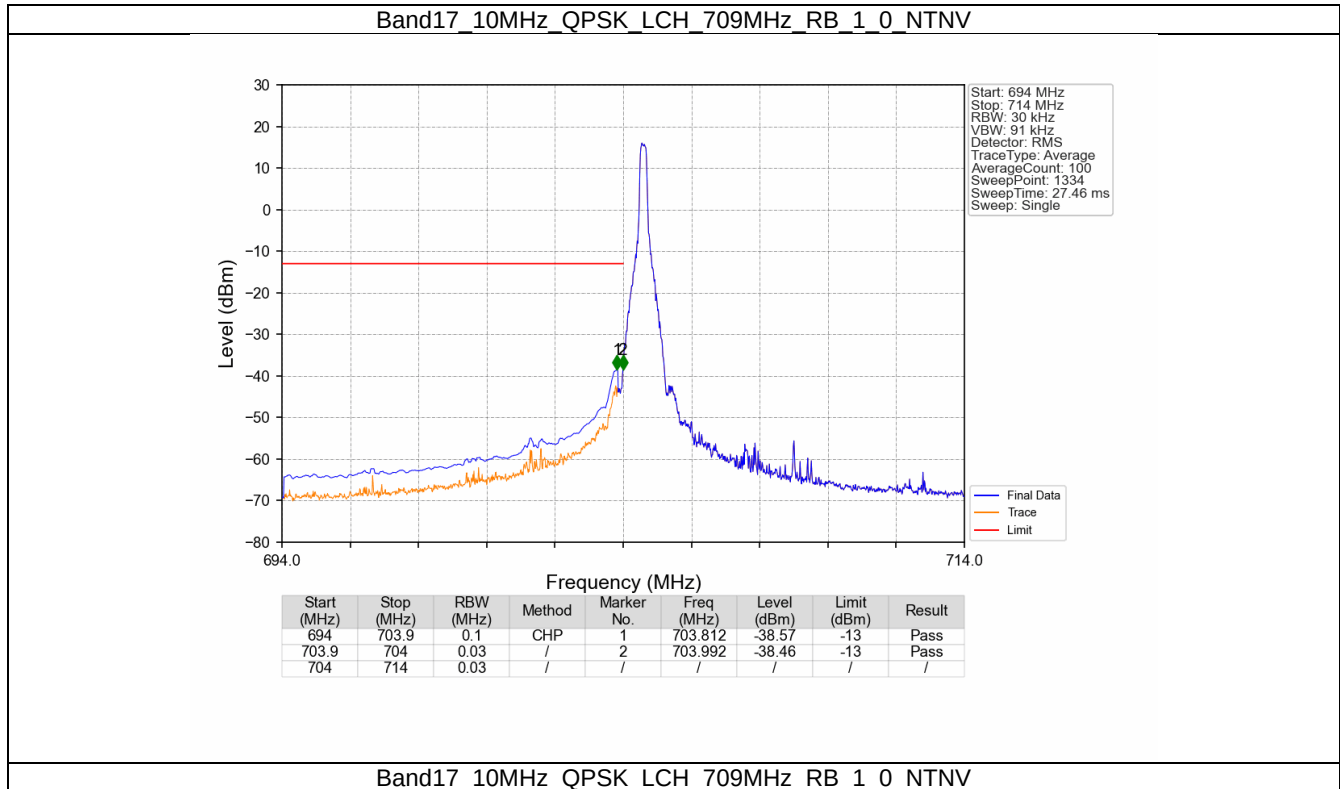
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6.2.2 Test Graph



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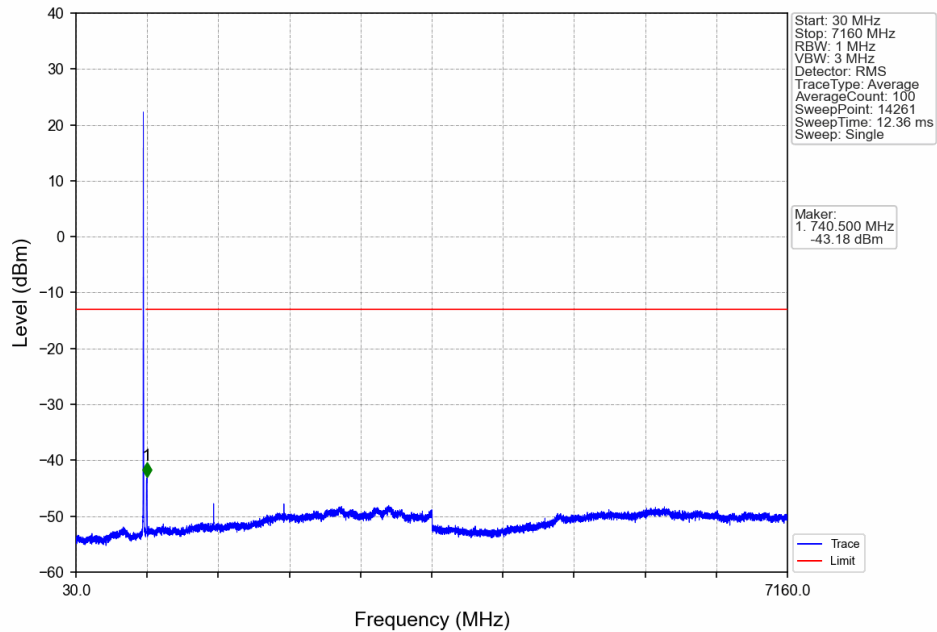
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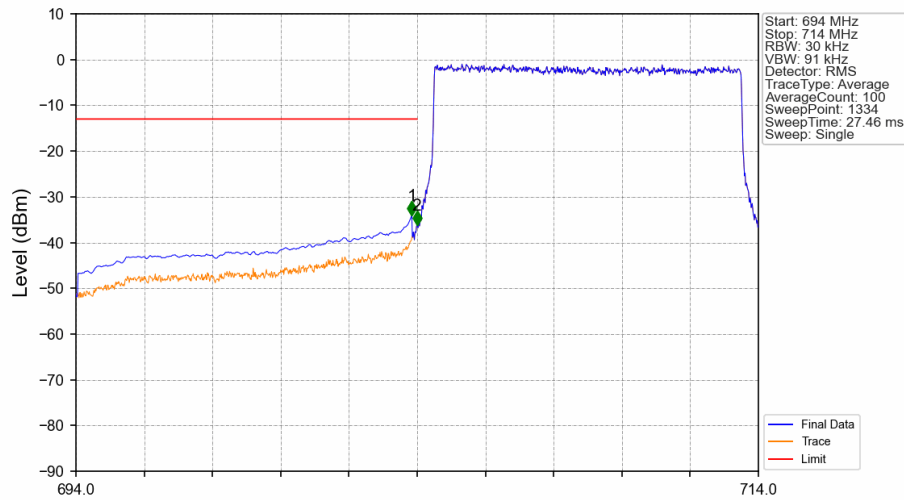
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Band17 10MHz QPSK LCH 709MHz RB 50 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-34.09	-13	Pass
703.9	704	0.03	/	2	703.992	-36.20	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17 10MHz QPSK MCH 710MHz RB 1 0 NTNV



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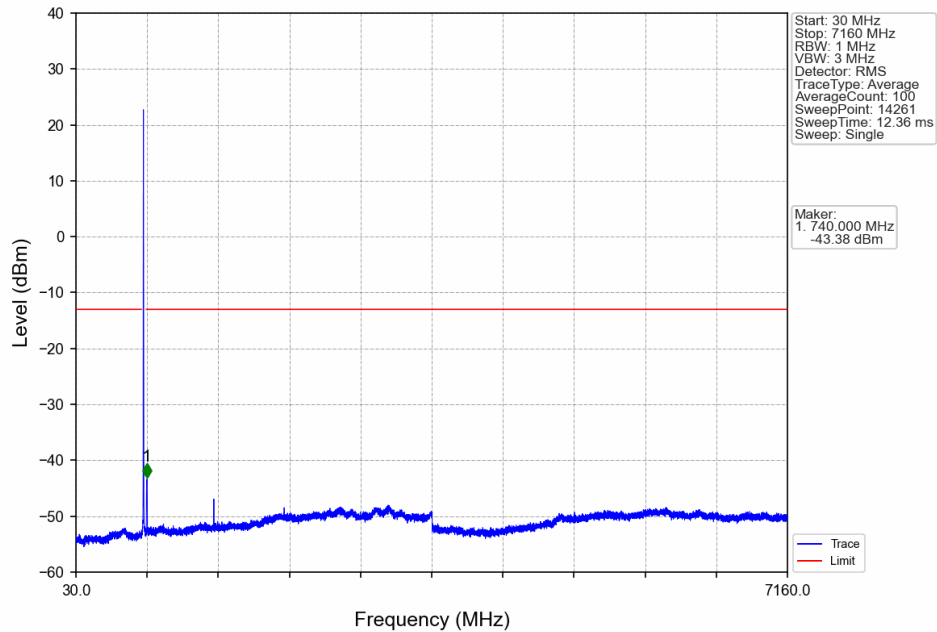
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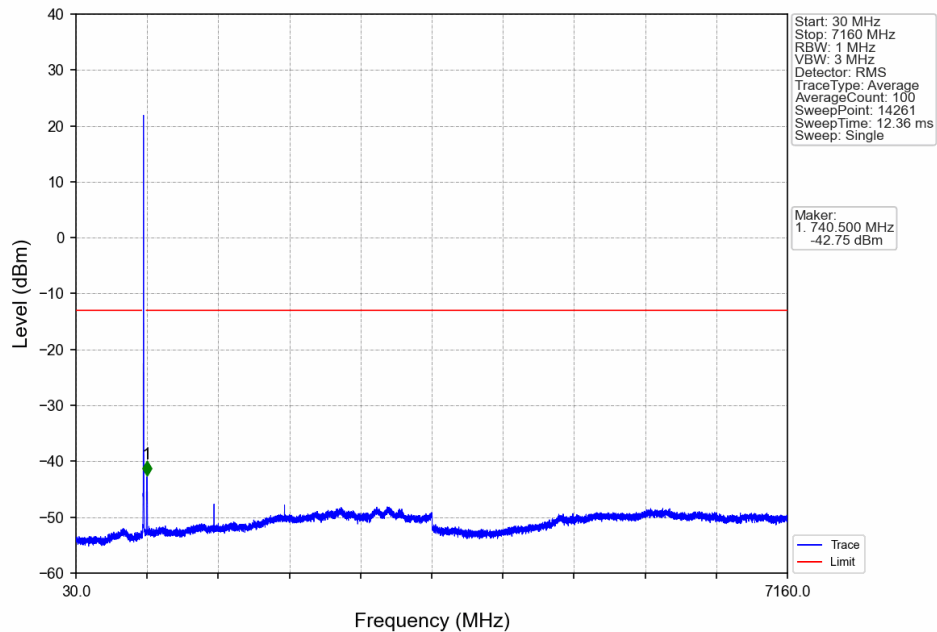
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Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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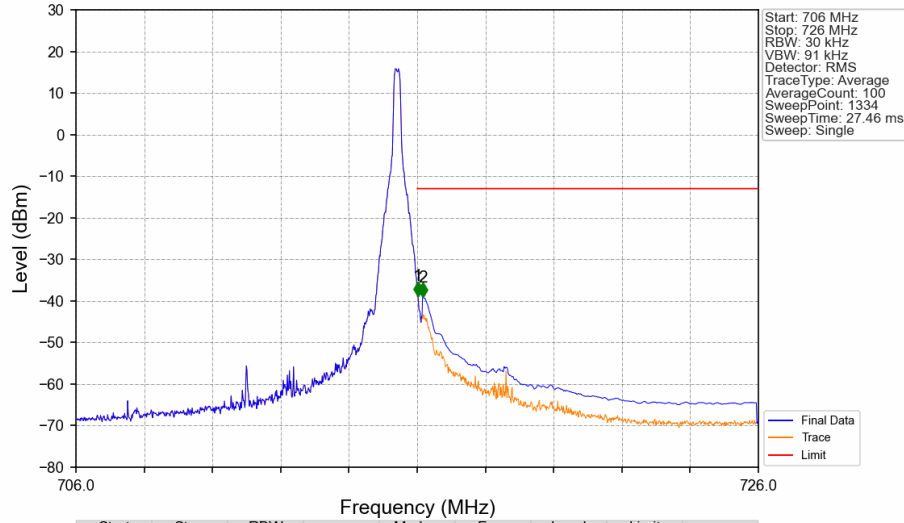
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-38.80	-13	Pass
716.1	726	0.1	CHP	2	716.173	-39.13	-13	Pass



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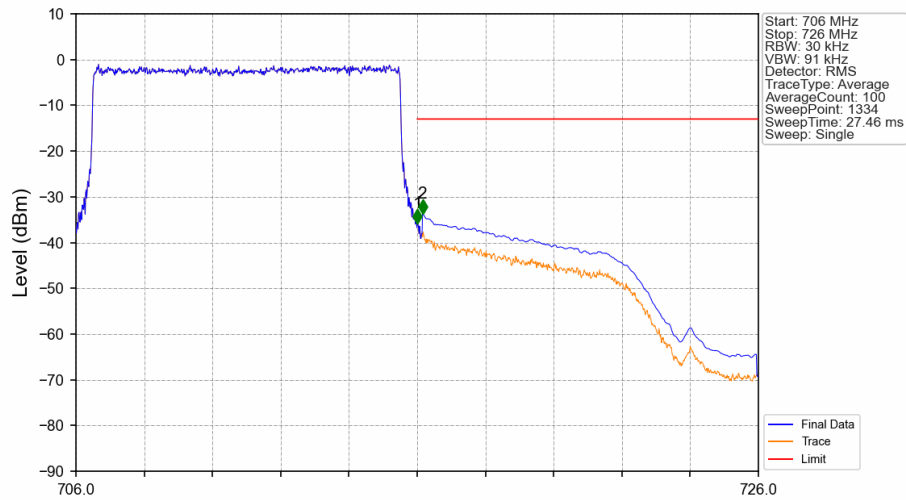
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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-35.77	-13	Pass
716.1	726	0.1	CHP	2	716.158	-33.67	-13	Pass

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