

FCC LTE Band Test Data

FCC ID : 2AZHU-S52

Company: : Shenzhen Zigxico Technology Co., Ltd

EUT : Smart Camera

Model Number : S52

Reviewed By : *Kevin Yang*

1. Conducted Power

1.1 Test Result

1.1.1 B4_1.4MHz_

Band: 4 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict
		Size	Offset		
QPSK	1710.7	1	0	25.78	Pass
			2	25.69	Pass
			5	25.70	Pass
		3	0	25.64	Pass
			2	25.64	Pass
			3	25.65	Pass
		6	0	24.92	Pass
	1732.5	1	0	25.64	Pass
			2	25.58	Pass
			5	25.61	Pass
		3	0	25.58	Pass
			2	25.59	Pass
			3	25.58	Pass
		6	0	24.47	Pass
	1754.3	1	0	26.11	Pass
			2	26.07	Pass
			5	26.10	Pass
		3	0	25.99	Pass
			2	26.03	Pass
			3	26.03	Pass
		6	0	25.33	Pass
16QAM	1710.7	1	0	24.81	Pass
			2	24.81	Pass
			5	24.85	Pass
		3	0	24.83	Pass
			2	24.79	Pass
			3	24.83	Pass
		6	0	26.83	Pass
	1732.5	1	0	24.64	Pass
			2	24.65	Pass
			5	24.69	Pass
		3	0	24.49	Pass
			2	24.51	Pass
			3	24.52	Pass
		6	0	26.72	Pass
	1754.3	1	0	25.19	Pass
			2	25.19	Pass
			5	25.31	Pass
		3	0	25.19	Pass
			2	25.23	Pass
			3	25.28	Pass
		6	0	27.30	Pass

1.1.2 B4_3MHz_

Band: 4 / Bandwidth: 3MHz / NTNV				
Modulation	Frequency	RB Allocation	Conducted Power	Verdict

	(MHz)	Size	Offset	(dBm)	
QPSK	1711.5	1	0	25.73	Pass
			7	25.76	Pass
			14	25.66	Pass
		8	0	24.99	Pass
			4	25.03	Pass
			7	24.95	Pass
		15	0	25.01	Pass
	1732.5	1	0	25.69	Pass
			7	25.72	Pass
			14	25.63	Pass
		8	0	24.62	Pass
			4	24.66	Pass
			7	24.58	Pass
		15	0	24.56	Pass
	1753.5	1	0	25.81	Pass
			7	25.85	Pass
			14	25.89	Pass
		8	0	25.16	Pass
			4	25.25	Pass
			7	25.32	Pass
		15	0	25.25	Pass
16QAM	1711.5	1	0	25.21	Pass
			7	25.28	Pass
			14	25.19	Pass
		8	0	24.07	Pass
			4	24.11	Pass
			7	24.14	Pass
		15	0	24.05	Pass
	1732.5	1	0	24.55	Pass
			7	24.64	Pass
			14	24.46	Pass
		8	0	23.77	Pass
			4	23.83	Pass
			7	23.82	Pass
		15	0	23.78	Pass
	1753.5	1	0	25.02	Pass
			7	25.22	Pass
			14	25.25	Pass
		8	0	24.19	Pass
			4	24.32	Pass
			7	24.31	Pass
		15	0	24.31	Pass

1.1.3 B4_5MHz_

Band: 4 / Bandwidth: 5MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict
		Size	Offset		
QPSK	1712.5	1	0	25.84	Pass
			13	25.71	Pass
			24	25.69	Pass
		12	0	24.94	Pass
			6	24.98	Pass
			13	24.87	Pass
		25	0	24.93	Pass
	1732.5	1	0	25.69	Pass

			13	25.66	Pass
			24	25.61	Pass
			0	24.46	Pass
		12	6	24.55	Pass
			13	24.47	Pass
			24	24.49	Pass
	1752.5	25	0	25.73	Pass
			13	25.85	Pass
			24	25.95	Pass
		12	0	24.94	Pass
			6	25.15	Pass
			13	25.21	Pass
		25	0	25.08	Pass
			13	24.75	Pass
			24	24.72	Pass
16QAM	1712.5	1	0	24.67	Pass
			13	26.86	Pass
			24	26.95	Pass
		12	0	26.87	Pass
			6	26.93	Pass
			13	26.66	Pass
		25	0	26.66	Pass
			13	24.69	Pass
			24	24.67	Pass
	1732.5	1	0	24.64	Pass
			13	26.58	Pass
			24	26.70	Pass
		12	0	26.66	Pass
			6	26.66	Pass
			13	24.99	Pass
		25	0	25.18	Pass
			13	25.37	Pass
			24	27.02	Pass
	1752.5	1	0	27.22	Pass
			13	27.28	Pass
			24	27.12	Pass
		12	0	27.12	Pass
			6	27.12	Pass
			13	27.12	Pass
		25	0	27.12	Pass
			13	27.12	Pass
			24	27.12	Pass

1.1.4 B4_10MHz_

Band: 4 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict
		Size	Offset		
QPSK	1715	1	0	25.83	Pass
			25	25.58	Pass
			49	25.56	Pass
		25	0	24.72	Pass
			13	24.75	Pass
			25	24.57	Pass
		50	0	24.65	Pass
	1732.5	1	0	25.49	Pass
			25	25.57	Pass
			49	25.47	Pass
		25	0	27.13	Pass
			13	24.35	Pass
			25	27.18	Pass
		50	0	27.20	Pass
	1750	1	0	25.71	Pass
			25	25.52	Pass
			49	25.88	Pass

		25	0	24.56	Pass
			13	24.67	Pass
			25	24.90	Pass
		50	0	24.57	Pass
16QAM	1715	1	0	25.17	Pass
			25	25.07	Pass
			49	25.07	Pass
		12	0	24.79	Pass
			19	24.68	Pass
			38	24.66	Pass
		27	0	26.51	Pass
	1732.5	1	0	24.49	Pass
			25	24.44	Pass
			49	24.46	Pass
		12	0	24.39	Pass
			19	24.44	Pass
			38	24.49	Pass
		27	0	26.42	Pass
	1750	1	0	24.90	Pass
			25	24.75	Pass
			49	25.20	Pass
		12	0	24.67	Pass
			19	24.60	Pass
			38	25.04	Pass
		27	23	26.87	Pass

1.1.5 B4_15MHz_

Band: 4 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict
		Size	Offset		
QPSK	1717.5	1	0	25.90	Pass
			38	25.77	Pass
			74	25.71	Pass
		36	0	24.87	Pass
			18	24.83	Pass
			39	24.72	Pass
		75	0	24.74	Pass
	1732.5	1	0	25.66	Pass
			38	25.68	Pass
			74	25.57	Pass
		36	0	24.43	Pass
			18	24.58	Pass
			39	24.49	Pass
		75	0	24.47	Pass
	1747.5	1	0	25.82	Pass
			38	25.93	Pass
			74	26.09	Pass
		36	0	24.78	Pass
			18	24.84	Pass
			39	24.93	Pass
		75	0	24.77	Pass
16QAM	1717.5	1	0	25.04	Pass
			38	24.97	Pass
			74	24.87	Pass
		12	0	24.65	Pass
			31	24.65	Pass

		27	63	24.39	Pass
			0	26.85	Pass
	1732.5	1	0	24.82	Pass
			38	24.91	Pass
			74	24.76	Pass
		12	0	24.27	Pass
			31	24.53	Pass
			63	24.27	Pass
		27	0	26.48	Pass
	1747.5	1	0	24.94	Pass
			38	25.13	Pass
			74	25.39	Pass
		12	0	24.50	Pass
			31	24.83	Pass
			63	24.96	Pass
		27	48	27.04	Pass

1.1.6 B4_20MHz_

Band: 4 / Bandwidth: 20MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict
		Size	Offset		
QPSK	1720	1	0	25.83	Pass
			50	25.77	Pass
			99	25.62	Pass
		50	0	24.86	Pass
			25	24.77	Pass
			50	24.56	Pass
		100	0	24.61	Pass
	1732.5	1	0	25.66	Pass
			50	25.71	Pass
			99	25.70	Pass
		50	0	27.31	Pass
			25	24.64	Pass
			50	27.30	Pass
		100	0	24.50	Pass
	1745	1	0	25.64	Pass
			50	25.94	Pass
			99	26.04	Pass
		50	0	24.51	Pass
			25	24.89	Pass
			50	24.88	Pass
		100	0	24.71	Pass
16QAM	1720	1	0	25.02	Pass
			50	24.96	Pass
			99	24.79	Pass
		12	0	24.72	Pass
			44	24.72	Pass
			88	27.28	Pass
		27	0	26.70	Pass
	1732.5	1	0	25.15	Pass
			50	25.16	Pass
			99	25.16	Pass
		12	0	27.28	Pass
			44	24.65	Pass
			88	27.29	Pass
		27	0	26.34	Pass

	1745	1	0	25.09	Pass
			50	25.33	Pass
			99	25.57	Pass
		12	0	27.19	Pass
			44	24.92	Pass
			88	24.99	Pass
		27	73	26.93	Pass

2. Frequency Stability

2.1 Test Result

2.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.27	20.299	0.0119	-2.5 to 2.5	Pass
					3.85	17.395	0.0102	-2.5 to 2.5	Pass
					4.43	20.771	0.0121	-2.5 to 2.5	Pass
				-30	3.85	19.126	0.0112	-2.5 to 2.5	Pass
				-20	3.85	17.524	0.0102	-2.5 to 2.5	Pass
				-10	3.85	17.953	0.0105	-2.5 to 2.5	Pass
				0	3.85	16.336	0.0095	-2.5 to 2.5	Pass
				10	3.85	18.225	0.0107	-2.5 to 2.5	Pass
				30	3.85	15.121	0.0088	-2.5 to 2.5	Pass
				40	3.85	15.965	0.0093	-2.5 to 2.5	Pass
				50	3.85	14.935	0.0087	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	24.290	0.0140	-2.5 to 2.5	Pass
					3.85	16.465	0.0095	-2.5 to 2.5	Pass
					4.43	18.139	0.0105	-2.5 to 2.5	Pass
				-30	3.85	16.694	0.0096	-2.5 to 2.5	Pass
				-20	3.85	16.565	0.0096	-2.5 to 2.5	Pass
				-10	3.85	14.949	0.0086	-2.5 to 2.5	Pass
				0	3.85	15.335	0.0089	-2.5 to 2.5	Pass
				10	3.85	15.693	0.0091	-2.5 to 2.5	Pass
				30	3.85	11.830	0.0068	-2.5 to 2.5	Pass
				40	3.85	15.907	0.0092	-2.5 to 2.5	Pass
				50	3.85	12.403	0.0072	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-14.191	-0.0081	-2.5 to 2.5	Pass
					3.85	17.724	0.0101	-2.5 to 2.5	Pass
					4.43	16.537	0.0094	-2.5 to 2.5	Pass
				-30	3.85	18.139	0.0103	-2.5 to 2.5	Pass
				-20	3.85	13.561	0.0077	-2.5 to 2.5	Pass
				-10	3.85	17.552	0.0100	-2.5 to 2.5	Pass
				0	3.85	12.145	0.0069	-2.5 to 2.5	Pass
				10	3.85	4.506	0.0026	-2.5 to 2.5	Pass
				30	3.85	22.001	0.0125	-2.5 to 2.5	Pass
				40	3.85	15.192	0.0087	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	9.556	0.0056	-2.5 to 2.5	Pass
					3.85	-4.134	-0.0024	-2.5 to 2.5	Pass
					4.43	17.953	0.0105	-2.5 to 2.5	Pass
				-30	3.85	10.014	0.0059	-2.5 to 2.5	Pass
				-20	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-4.163	-0.0024	-2.5 to 2.5	Pass
				0	3.85	22.717	0.0133	-2.5 to 2.5	Pass
				10	3.85	15.035	0.0088	-2.5 to 2.5	Pass
				30	3.85	16.279	0.0095	-2.5 to 2.5	Pass
				40	3.85	18.711	0.0109	-2.5 to 2.5	Pass
				50	3.85	22.717	0.0133	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	11.601	0.0067	-2.5 to 2.5	Pass
					3.85	-11.702	-0.0068	-2.5 to 2.5	Pass
					4.43	-10.128	-0.0058	-2.5 to 2.5	Pass
				-30	3.85	16.479	0.0095	-2.5 to 2.5	Pass
				-20	3.85	13.433	0.0078	-2.5 to 2.5	Pass

				-10	3.85	17.881	0.0103	-2.5 to 2.5	Pass
				0	3.85	12.302	0.0071	-2.5 to 2.5	Pass
				10	3.85	18.296	0.0106	-2.5 to 2.5	Pass
				30	3.85	13.404	0.0077	-2.5 to 2.5	Pass
				40	3.85	15.793	0.0091	-2.5 to 2.5	Pass
				50	3.85	13.747	0.0079	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	9.069	0.0052	-2.5 to 2.5	Pass
					3.85	-18.668	-0.0106	-2.5 to 2.5	Pass
					4.43	-19.999	-0.0114	-2.5 to 2.5	Pass
				-30	3.85	-14.219	-0.0081	-2.5 to 2.5	Pass
				-20	3.85	-22.087	-0.0126	-2.5 to 2.5	Pass
				-10	3.85	-15.392	-0.0088	-2.5 to 2.5	Pass
				0	3.85	-18.640	-0.0106	-2.5 to 2.5	Pass
				10	3.85	-7.839	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
				40	3.85	5.264	0.0030	-2.5 to 2.5	Pass
				50	3.85	-17.095	-0.0097	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.27	20.013	0.0117	-2.5 to 2.5	Pass
					3.85	17.538	0.0102	-2.5 to 2.5	Pass
					4.43	14.791	0.0086	-2.5 to 2.5	Pass
				-30	3.85	17.223	0.0101	-2.5 to 2.5	Pass
				-20	3.85	17.796	0.0104	-2.5 to 2.5	Pass
				-10	3.85	16.794	0.0098	-2.5 to 2.5	Pass
				0	3.85	17.052	0.0100	-2.5 to 2.5	Pass
				10	3.85	16.065	0.0094	-2.5 to 2.5	Pass
				30	3.85	16.980	0.0099	-2.5 to 2.5	Pass
				40	3.85	11.058	0.0065	-2.5 to 2.5	Pass
	1732.5	15	0	50	3.85	15.378	0.0090	-2.5 to 2.5	Pass
				20	3.27	25.520	0.0147	-2.5 to 2.5	Pass
					3.85	20.943	0.0121	-2.5 to 2.5	Pass
					4.43	18.711	0.0108	-2.5 to 2.5	Pass
				-30	3.85	17.309	0.0100	-2.5 to 2.5	Pass
				-20	3.85	16.365	0.0094	-2.5 to 2.5	Pass
				-10	3.85	14.734	0.0085	-2.5 to 2.5	Pass
				0	3.85	17.567	0.0101	-2.5 to 2.5	Pass
				10	3.85	16.122	0.0093	-2.5 to 2.5	Pass
				30	3.85	16.150	0.0093	-2.5 to 2.5	Pass
	1753.5	15	0	40	3.85	15.478	0.0089	-2.5 to 2.5	Pass
				50	3.85	17.109	0.0099	-2.5 to 2.5	Pass
				20	3.27	5.436	0.0031	-2.5 to 2.5	Pass
					3.85	17.066	0.0097	-2.5 to 2.5	Pass
					4.43	16.751	0.0096	-2.5 to 2.5	Pass
				-30	3.85	15.907	0.0091	-2.5 to 2.5	Pass
				-20	3.85	17.481	0.0100	-2.5 to 2.5	Pass
				-10	3.85	17.896	0.0102	-2.5 to 2.5	Pass
				0	3.85	15.492	0.0088	-2.5 to 2.5	Pass
				10	3.85	14.620	0.0083	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-14.706	-0.0086	-2.5 to 2.5	Pass
					3.85	-14.706	-0.0086	-2.5 to 2.5	Pass

					3.85	-19.555	-0.0114	-2.5 to 2.5	Pass
					4.43	-12.875	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-17.223	-0.0101	-2.5 to 2.5	Pass
				-20	3.85	-15.736	-0.0092	-2.5 to 2.5	Pass
				-10	3.85	-20.041	-0.0117	-2.5 to 2.5	Pass
				0	3.85	-2.975	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-6.723	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-4.563	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-5.522	-0.0032	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	15.922	0.0092	-2.5 to 2.5	Pass
					3.85	9.084	0.0052	-2.5 to 2.5	Pass
					4.43	14.248	0.0082	-2.5 to 2.5	Pass
				-30	3.85	16.708	0.0096	-2.5 to 2.5	Pass
				-20	3.85	13.747	0.0079	-2.5 to 2.5	Pass
				-10	3.85	13.790	0.0080	-2.5 to 2.5	Pass
				0	3.85	14.648	0.0085	-2.5 to 2.5	Pass
				10	3.85	15.821	0.0091	-2.5 to 2.5	Pass
				30	3.85	16.236	0.0094	-2.5 to 2.5	Pass
				40	3.85	19.698	0.0114	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	3.333	0.0019	-2.5 to 2.5	Pass
					3.85	-14.849	-0.0085	-2.5 to 2.5	Pass
					4.43	-20.514	-0.0117	-2.5 to 2.5	Pass
				-30	3.85	-7.911	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-17.123	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-20.070	-0.0114	-2.5 to 2.5	Pass
				0	3.85	11.258	0.0064	-2.5 to 2.5	Pass
				10	3.85	14.391	0.0082	-2.5 to 2.5	Pass
				30	3.85	17.896	0.0102	-2.5 to 2.5	Pass
				40	3.85	15.464	0.0088	-2.5 to 2.5	Pass
				50	3.85	20.328	0.0116	-2.5 to 2.5	Pass

2.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.27	21.486	0.0125	-2.5 to 2.5	Pass
					3.85	17.109	0.0100	-2.5 to 2.5	Pass
					4.43	16.909	0.0099	-2.5 to 2.5	Pass
				-30	3.85	18.196	0.0106	-2.5 to 2.5	Pass
				-20	3.85	17.080	0.0100	-2.5 to 2.5	Pass
				-10	3.85	16.365	0.0096	-2.5 to 2.5	Pass
				0	3.85	17.753	0.0104	-2.5 to 2.5	Pass
				10	3.85	16.479	0.0096	-2.5 to 2.5	Pass
				30	3.85	15.035	0.0088	-2.5 to 2.5	Pass
				40	3.85	16.866	0.0098	-2.5 to 2.5	Pass
				50	3.85	16.065	0.0094	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	18.067	0.0104	-2.5 to 2.5	Pass
					3.85	16.422	0.0095	-2.5 to 2.5	Pass
					4.43	16.093	0.0093	-2.5 to 2.5	Pass
				-30	3.85	16.494	0.0095	-2.5 to 2.5	Pass
				-20	3.85	17.023	0.0098	-2.5 to 2.5	Pass
				-10	3.85	17.323	0.0100	-2.5 to 2.5	Pass
				0	3.85	14.591	0.0084	-2.5 to 2.5	Pass
				10	3.85	17.538	0.0101	-2.5 to 2.5	Pass

				30	3.85	15.535	0.0090	-2.5 to 2.5	Pass
				40	3.85	16.222	0.0094	-2.5 to 2.5	Pass
				50	3.85	18.468	0.0107	-2.5 to 2.5	Pass
				20	3.27	-3.290	-0.0019	-2.5 to 2.5	Pass
					3.85	15.435	0.0088	-2.5 to 2.5	Pass
					4.43	13.704	0.0078	-2.5 to 2.5	Pass
				-30	3.85	16.737	0.0096	-2.5 to 2.5	Pass
				-20	3.85	15.278	0.0087	-2.5 to 2.5	Pass
				-10	3.85	17.138	0.0098	-2.5 to 2.5	Pass
				0	3.85	14.634	0.0084	-2.5 to 2.5	Pass
				10	3.85	9.699	0.0055	-2.5 to 2.5	Pass
				30	3.85	13.847	0.0079	-2.5 to 2.5	Pass
				40	3.85	9.298	0.0053	-2.5 to 2.5	Pass
				50	3.85	-11.659	-0.0067	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	18.225	0.0106	-2.5 to 2.5	Pass
					3.85	12.360	0.0072	-2.5 to 2.5	Pass
					4.43	14.720	0.0086	-2.5 to 2.5	Pass
				-30	3.85	14.491	0.0085	-2.5 to 2.5	Pass
				-20	3.85	12.960	0.0076	-2.5 to 2.5	Pass
				-10	3.85	-5.865	-0.0034	-2.5 to 2.5	Pass
				0	3.85	15.035	0.0088	-2.5 to 2.5	Pass
				10	3.85	11.301	0.0066	-2.5 to 2.5	Pass
				30	3.85	16.980	0.0099	-2.5 to 2.5	Pass
				40	3.85	16.408	0.0096	-2.5 to 2.5	Pass
	1732.5	25	0	50	3.85	14.362	0.0084	-2.5 to 2.5	Pass
				20	3.27	5.307	0.0031	-2.5 to 2.5	Pass
					3.85	-7.167	-0.0041	-2.5 to 2.5	Pass
					4.43	-13.318	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-8.225	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	0.644	0.0004	-2.5 to 2.5	Pass
				-10	3.85	1.702	0.0010	-2.5 to 2.5	Pass
				0	3.85	-1.717	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-8.497	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
	1752.5	25	0	40	3.85	-16.723	-0.0097	-2.5 to 2.5	Pass
				50	3.85	20.485	0.0118	-2.5 to 2.5	Pass
				20	3.27	-10.371	-0.0059	-2.5 to 2.5	Pass
					3.85	-16.837	-0.0096	-2.5 to 2.5	Pass
					4.43	-14.949	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	-15.707	-0.0090	-2.5 to 2.5	Pass
				-20	3.85	-17.495	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-20.242	-0.0116	-2.5 to 2.5	Pass
				0	3.85	-14.749	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-0.558	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-15.507	-0.0088	-2.5 to 2.5	Pass
				40	3.85	-15.979	-0.0091	-2.5 to 2.5	Pass
				50	3.85	-18.768	-0.0107	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

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	3.27	17.824	0.0104	-2.5 to 2.5	Pass
					3.85	17.810	0.0104	-2.5 to 2.5	Pass
					4.43	17.738	0.0103	-2.5 to 2.5	Pass
				-30	3.85	14.577	0.0085	-2.5 to 2.5	Pass

				-20	3.85	15.993	0.0093	-2.5 to 2.5	Pass
				-10	3.85	16.651	0.0097	-2.5 to 2.5	Pass
				0	3.85	15.178	0.0089	-2.5 to 2.5	Pass
				10	3.85	17.138	0.0100	-2.5 to 2.5	Pass
				30	3.85	16.952	0.0099	-2.5 to 2.5	Pass
				40	3.85	16.479	0.0096	-2.5 to 2.5	Pass
				50	3.85	15.092	0.0088	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	15.936	0.0092	-2.5 to 2.5	Pass
					3.85	18.053	0.0104	-2.5 to 2.5	Pass
					4.43	15.836	0.0091	-2.5 to 2.5	Pass
				-30	3.85	17.524	0.0101	-2.5 to 2.5	Pass
				-20	3.85	14.920	0.0086	-2.5 to 2.5	Pass
				-10	3.85	15.121	0.0087	-2.5 to 2.5	Pass
				0	3.85	14.191	0.0082	-2.5 to 2.5	Pass
				10	3.85	14.963	0.0086	-2.5 to 2.5	Pass
				30	3.85	-12.560	-0.0072	-2.5 to 2.5	Pass
				40	3.85	18.783	0.0108	-2.5 to 2.5	Pass
				50	3.85	16.894	0.0098	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	15.965	0.0091	-2.5 to 2.5	Pass
					3.85	15.979	0.0091	-2.5 to 2.5	Pass
					4.43	15.750	0.0090	-2.5 to 2.5	Pass
				-30	3.85	10.300	0.0059	-2.5 to 2.5	Pass
				-20	3.85	20.785	0.0119	-2.5 to 2.5	Pass
				-10	3.85	10.228	0.0058	-2.5 to 2.5	Pass
				0	3.85	16.308	0.0093	-2.5 to 2.5	Pass
				10	3.85	-11.988	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-7.682	-0.0044	-2.5 to 2.5	Pass
				40	3.85	13.118	0.0075	-2.5 to 2.5	Pass
				50	3.85	-16.780	-0.0096	-2.5 to 2.5	Pass
16QAM	1715	27	0	20	3.27	-7.167	-0.0042	-2.5 to 2.5	Pass
					3.85	-15.249	-0.0089	-2.5 to 2.5	Pass
					4.43	-17.953	-0.0105	-2.5 to 2.5	Pass
				-30	3.85	-16.966	-0.0099	-2.5 to 2.5	Pass
				-20	3.85	-13.375	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	-16.208	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-17.395	-0.0101	-2.5 to 2.5	Pass
				10	3.85	-16.437	-0.0096	-2.5 to 2.5	Pass
				30	3.85	-11.630	-0.0068	-2.5 to 2.5	Pass
				40	3.85	-12.932	-0.0075	-2.5 to 2.5	Pass
				50	3.85	-13.461	-0.0078	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	-3.619	-0.0021	-2.5 to 2.5	Pass
					3.85	-17.538	-0.0101	-2.5 to 2.5	Pass
					4.43	-16.994	-0.0098	-2.5 to 2.5	Pass
				-30	3.85	-10.901	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-16.665	-0.0096	-2.5 to 2.5	Pass
				-10	3.85	-13.275	-0.0077	-2.5 to 2.5	Pass
				0	3.85	-14.806	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-19.398	-0.0112	-2.5 to 2.5	Pass
				30	3.85	-6.166	-0.0036	-2.5 to 2.5	Pass
				40	3.85	3.476	0.0020	-2.5 to 2.5	Pass
				50	3.85	2.661	0.0015	-2.5 to 2.5	Pass
	1750	27	23	20	3.27	-17.567	-0.0100	-2.5 to 2.5	Pass
					3.85	-15.421	-0.0088	-2.5 to 2.5	Pass
					4.43	-13.547	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-9.985	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-15.879	-0.0091	-2.5 to 2.5	Pass
				-10	3.85	-15.135	-0.0086	-2.5 to 2.5	Pass
				0	3.85	-16.079	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-16.894	-0.0097	-2.5 to 2.5	Pass

				30	3.85	-8.368	-0.0048	-2.5 to 2.5	Pass
				40	3.85	17.538	0.0100	-2.5 to 2.5	Pass
				50	3.85	6.280	0.0036	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.27	21.400	0.0125	-2.5 to 2.5	Pass
					3.85	17.996	0.0105	-2.5 to 2.5	Pass
					4.43	16.279	0.0095	-2.5 to 2.5	Pass
				-30	3.85	17.509	0.0102	-2.5 to 2.5	Pass
				-20	3.85	17.781	0.0104	-2.5 to 2.5	Pass
				-10	3.85	16.036	0.0093	-2.5 to 2.5	Pass
				0	3.85	16.236	0.0095	-2.5 to 2.5	Pass
				10	3.85	14.963	0.0087	-2.5 to 2.5	Pass
				30	3.85	14.434	0.0084	-2.5 to 2.5	Pass
				40	3.85	16.665	0.0097	-2.5 to 2.5	Pass
				50	3.85	18.468	0.0108	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	22.416	0.0129	-2.5 to 2.5	Pass
					3.85	17.767	0.0103	-2.5 to 2.5	Pass
					4.43	17.152	0.0099	-2.5 to 2.5	Pass
				-30	3.85	17.667	0.0102	-2.5 to 2.5	Pass
				-20	3.85	13.132	0.0076	-2.5 to 2.5	Pass
				-10	3.85	19.684	0.0114	-2.5 to 2.5	Pass
				0	3.85	15.063	0.0087	-2.5 to 2.5	Pass
				10	3.85	16.465	0.0095	-2.5 to 2.5	Pass
				30	3.85	16.952	0.0098	-2.5 to 2.5	Pass
				40	3.85	14.663	0.0085	-2.5 to 2.5	Pass
				50	3.85	15.650	0.0090	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	19.827	0.0113	-2.5 to 2.5	Pass
					3.85	15.478	0.0089	-2.5 to 2.5	Pass
					4.43	14.820	0.0085	-2.5 to 2.5	Pass
				-30	3.85	15.864	0.0091	-2.5 to 2.5	Pass
				-20	3.85	16.093	0.0092	-2.5 to 2.5	Pass
				-10	3.85	16.122	0.0092	-2.5 to 2.5	Pass
				0	3.85	16.551	0.0095	-2.5 to 2.5	Pass
				10	3.85	16.952	0.0097	-2.5 to 2.5	Pass
				30	3.85	14.806	0.0085	-2.5 to 2.5	Pass
				40	3.85	16.036	0.0092	-2.5 to 2.5	Pass
				50	3.85	18.754	0.0107	-2.5 to 2.5	Pass
16QAM	1717.5	27	0	20	3.27	13.046	0.0076	-2.5 to 2.5	Pass
					3.85	18.768	0.0109	-2.5 to 2.5	Pass
					4.43	18.268	0.0106	-2.5 to 2.5	Pass
				-30	3.85	14.219	0.0083	-2.5 to 2.5	Pass
				-20	3.85	15.593	0.0091	-2.5 to 2.5	Pass
				-10	3.85	16.136	0.0094	-2.5 to 2.5	Pass
				0	3.85	17.309	0.0101	-2.5 to 2.5	Pass
				10	3.85	15.593	0.0091	-2.5 to 2.5	Pass
				30	3.85	19.255	0.0112	-2.5 to 2.5	Pass
				40	3.85	17.567	0.0102	-2.5 to 2.5	Pass
				50	3.85	12.116	0.0071	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	12.488	0.0072	-2.5 to 2.5	Pass
					3.85	3.619	0.0021	-2.5 to 2.5	Pass
					4.43	7.496	0.0043	-2.5 to 2.5	Pass
				-30	3.85	17.395	0.0100	-2.5 to 2.5	Pass

				-20	3.85	14.048	0.0081	-2.5 to 2.5	Pass
				-10	3.85	16.322	0.0094	-2.5 to 2.5	Pass
				0	3.85	13.332	0.0077	-2.5 to 2.5	Pass
				10	3.85	15.378	0.0089	-2.5 to 2.5	Pass
				30	3.85	16.165	0.0093	-2.5 to 2.5	Pass
				40	3.85	15.078	0.0087	-2.5 to 2.5	Pass
				50	3.85	14.348	0.0083	-2.5 to 2.5	Pass
	1747.5	27	48	20	3.27	2.332	0.0013	-2.5 to 2.5	Pass
					3.85	-8.798	-0.0050	-2.5 to 2.5	Pass
					4.43	4.621	0.0026	-2.5 to 2.5	Pass
				-30	3.85	17.052	0.0098	-2.5 to 2.5	Pass
				-20	3.85	-1.760	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
				0	3.85	11.344	0.0065	-2.5 to 2.5	Pass
				10	3.85	16.050	0.0092	-2.5 to 2.5	Pass
				30	3.85	16.780	0.0096	-2.5 to 2.5	Pass
				40	3.85	15.092	0.0086	-2.5 to 2.5	Pass
				50	3.85	18.311	0.0105	-2.5 to 2.5	Pass

2.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.27	17.223	0.0100	-2.5 to 2.5	Pass
					3.85	16.150	0.0094	-2.5 to 2.5	Pass
					4.43	16.007	0.0093	-2.5 to 2.5	Pass
				-30	3.85	14.176	0.0082	-2.5 to 2.5	Pass
				-20	3.85	13.862	0.0081	-2.5 to 2.5	Pass
				-10	3.85	14.548	0.0085	-2.5 to 2.5	Pass
				0	3.85	16.336	0.0095	-2.5 to 2.5	Pass
				10	3.85	14.648	0.0085	-2.5 to 2.5	Pass
				30	3.85	15.550	0.0090	-2.5 to 2.5	Pass
				40	3.85	13.776	0.0080	-2.5 to 2.5	Pass
				50	3.85	12.760	0.0074	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	18.797	0.0108	-2.5 to 2.5	Pass
					3.85	16.179	0.0093	-2.5 to 2.5	Pass
					4.43	16.551	0.0096	-2.5 to 2.5	Pass
				-30	3.85	15.550	0.0090	-2.5 to 2.5	Pass
				-20	3.85	18.110	0.0105	-2.5 to 2.5	Pass
				-10	3.85	17.266	0.0100	-2.5 to 2.5	Pass
				0	3.85	18.368	0.0106	-2.5 to 2.5	Pass
				10	3.85	14.434	0.0083	-2.5 to 2.5	Pass
				30	3.85	15.950	0.0092	-2.5 to 2.5	Pass
				40	3.85	14.033	0.0081	-2.5 to 2.5	Pass
				50	3.85	15.922	0.0092	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	18.954	0.0109	-2.5 to 2.5	Pass
					3.85	15.507	0.0089	-2.5 to 2.5	Pass
					4.43	16.737	0.0096	-2.5 to 2.5	Pass
				-30	3.85	20.185	0.0116	-2.5 to 2.5	Pass
				-20	3.85	15.550	0.0089	-2.5 to 2.5	Pass
				-10	3.85	16.909	0.0097	-2.5 to 2.5	Pass
				0	3.85	15.221	0.0087	-2.5 to 2.5	Pass
				10	3.85	14.491	0.0083	-2.5 to 2.5	Pass
				30	3.85	19.584	0.0112	-2.5 to 2.5	Pass
				40	3.85	15.864	0.0091	-2.5 to 2.5	Pass
				50	3.85	13.204	0.0076	-2.5 to 2.5	Pass

16QAM	1720	27	0	20	3.27	11.716	0.0068	-2.5 to 2.5	Pass
					3.85	-5.722	-0.0033	-2.5 to 2.5	Pass
					4.43	2.260	0.0013	-2.5 to 2.5	Pass
				-30	3.85	11.816	0.0069	-2.5 to 2.5	Pass
				-20	3.85	15.779	0.0092	-2.5 to 2.5	Pass
				-10	3.85	12.474	0.0073	-2.5 to 2.5	Pass
				0	3.85	16.208	0.0094	-2.5 to 2.5	Pass
				10	3.85	16.551	0.0096	-2.5 to 2.5	Pass
				30	3.85	16.437	0.0096	-2.5 to 2.5	Pass
				40	3.85	15.721	0.0091	-2.5 to 2.5	Pass
				50	3.85	13.604	0.0079	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	-0.887	-0.0005	-2.5 to 2.5	Pass
					3.85	-15.635	-0.0090	-2.5 to 2.5	Pass
					4.43	-6.881	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	-7.567	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	17.381	0.0100	-2.5 to 2.5	Pass
				-10	3.85	12.460	0.0072	-2.5 to 2.5	Pass
				0	3.85	14.348	0.0083	-2.5 to 2.5	Pass
				10	3.85	16.079	0.0093	-2.5 to 2.5	Pass
				30	3.85	16.179	0.0093	-2.5 to 2.5	Pass
				40	3.85	14.591	0.0084	-2.5 to 2.5	Pass
				50	3.85	14.448	0.0083	-2.5 to 2.5	Pass
	1745	27	73	20	3.27	-3.834	-0.0022	-2.5 to 2.5	Pass
					3.85	-12.589	-0.0072	-2.5 to 2.5	Pass
					4.43	-7.596	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-5.393	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-16.379	-0.0094	-2.5 to 2.5	Pass
				-10	3.85	6.495	0.0037	-2.5 to 2.5	Pass
				0	3.85	15.235	0.0087	-2.5 to 2.5	Pass
				10	3.85	12.331	0.0071	-2.5 to 2.5	Pass
				30	3.85	17.638	0.0101	-2.5 to 2.5	Pass
				40	3.85	19.054	0.0109	-2.5 to 2.5	Pass
				50	3.85	0.114	0.0001	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

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

3.1.2 B4_3MHz

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

3.1.3 B4_5MHz

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

3.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.1.5 B4_15MHz

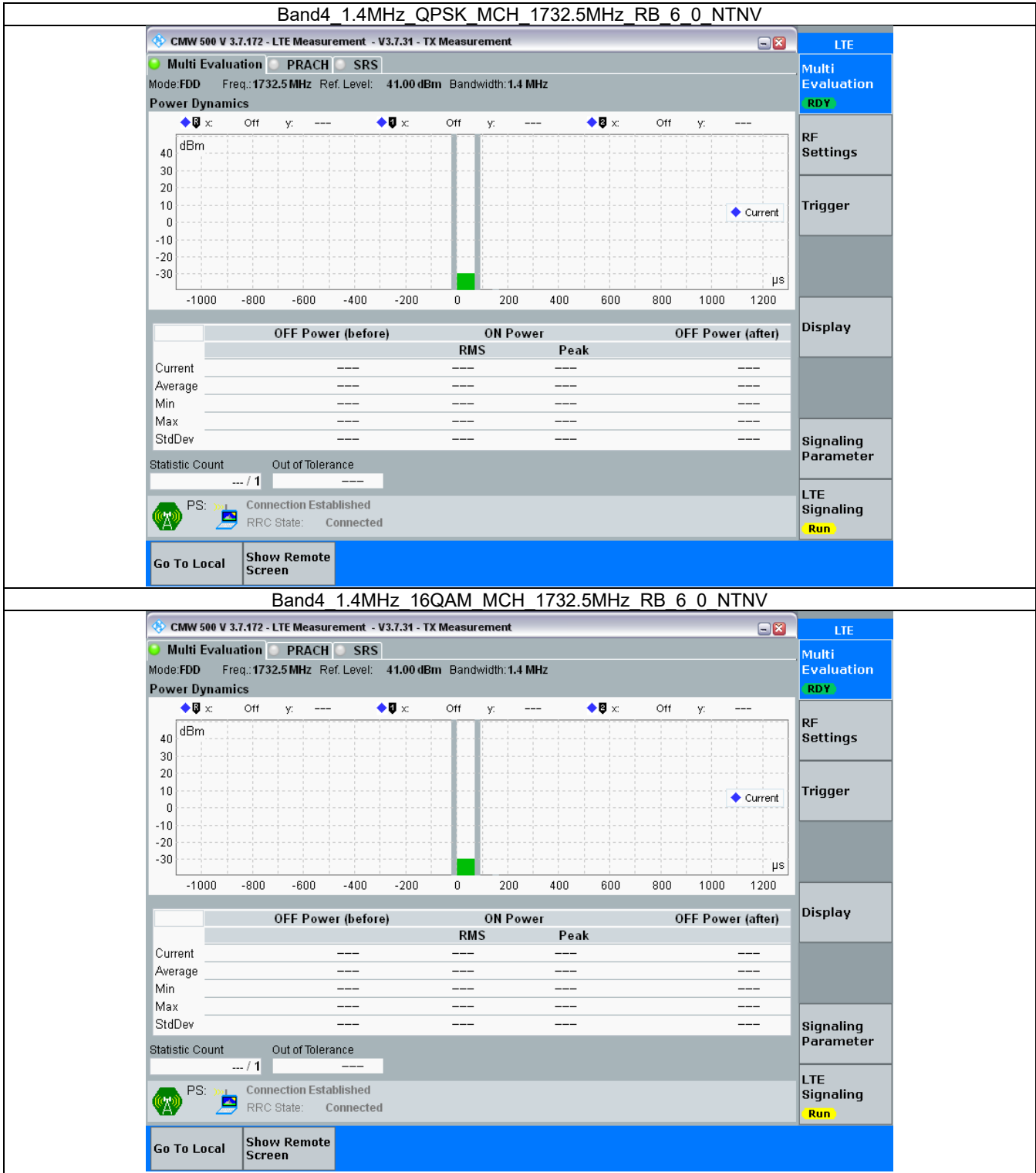
Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

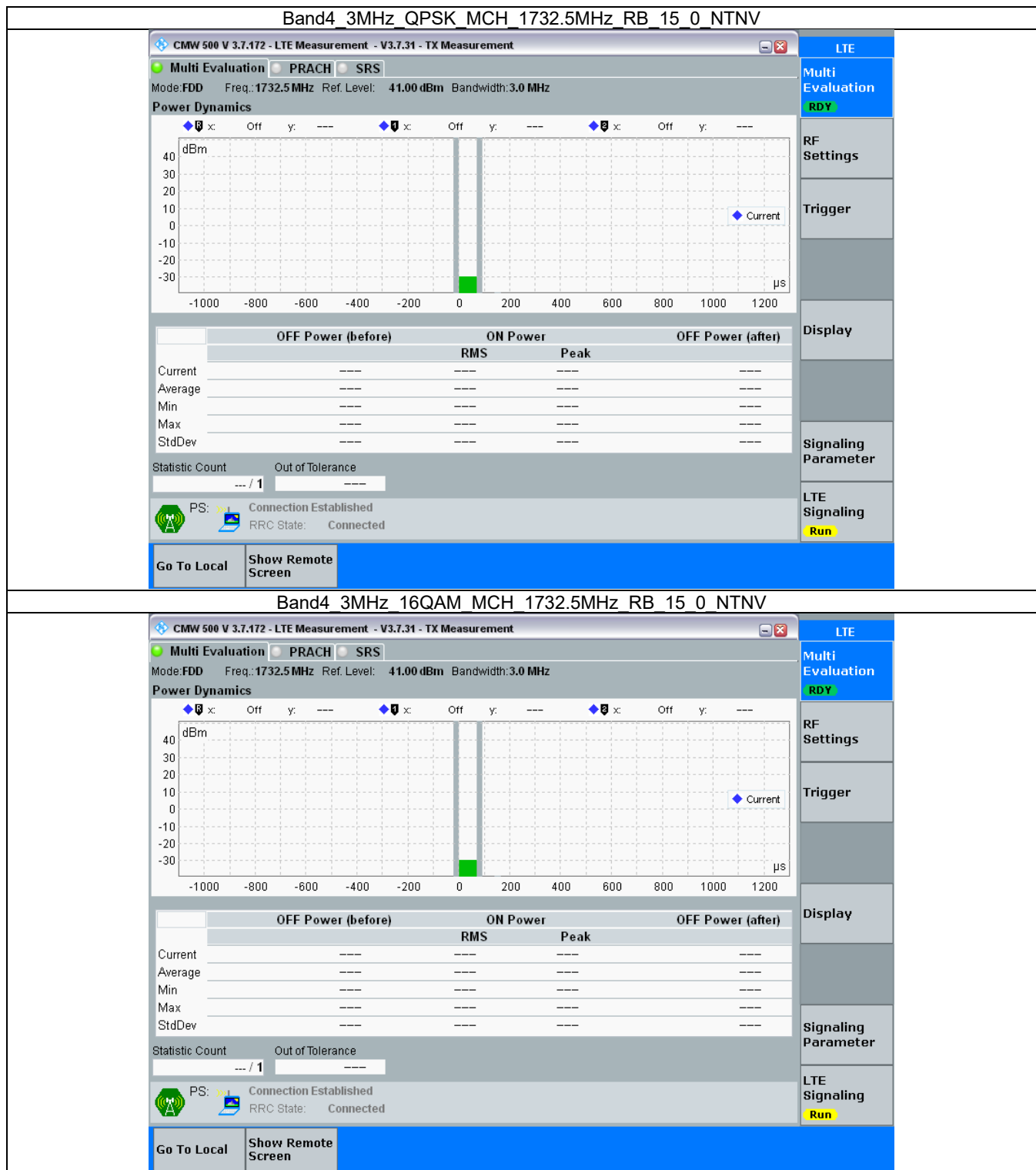
Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 B4_1.4MHz



3.2.2 B4_3MHz



Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTN

CMW 500 V 3.7.172 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

Mode:FDD Freq.:1732.5 MHz Ref. Level: 41.00 dBm Bandwidth:5.0 MHz

Power Dynamics

dBm

μs

	OFF Power (before)	ON Power		OFF Power (after)
		RMS	Peak	
Current	---	---	---	---
Average	---	---	---	---
Min	---	---	---	---
Max	---	---	---	---
StdDev	---	---	---	---

Statistic Count Out of Tolerance

--- / 1

PS: Connection Established
RRC State: Connected

Go To Local Show Remote Screen

Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTN

CMW 500 V 3.7.172 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

Mode:FDD Freq.:1732.5 MHz Ref. Level: 41.00 dBm Bandwidth:5.0 MHz

Power Dynamics

dBm

μs

	OFF Power (before)	ON Power		OFF Power (after)
		RMS	Peak	
Current	---	---	---	---
Average	---	---	---	---
Min	---	---	---	---
Max	---	---	---	---
StdDev	---	---	---	---

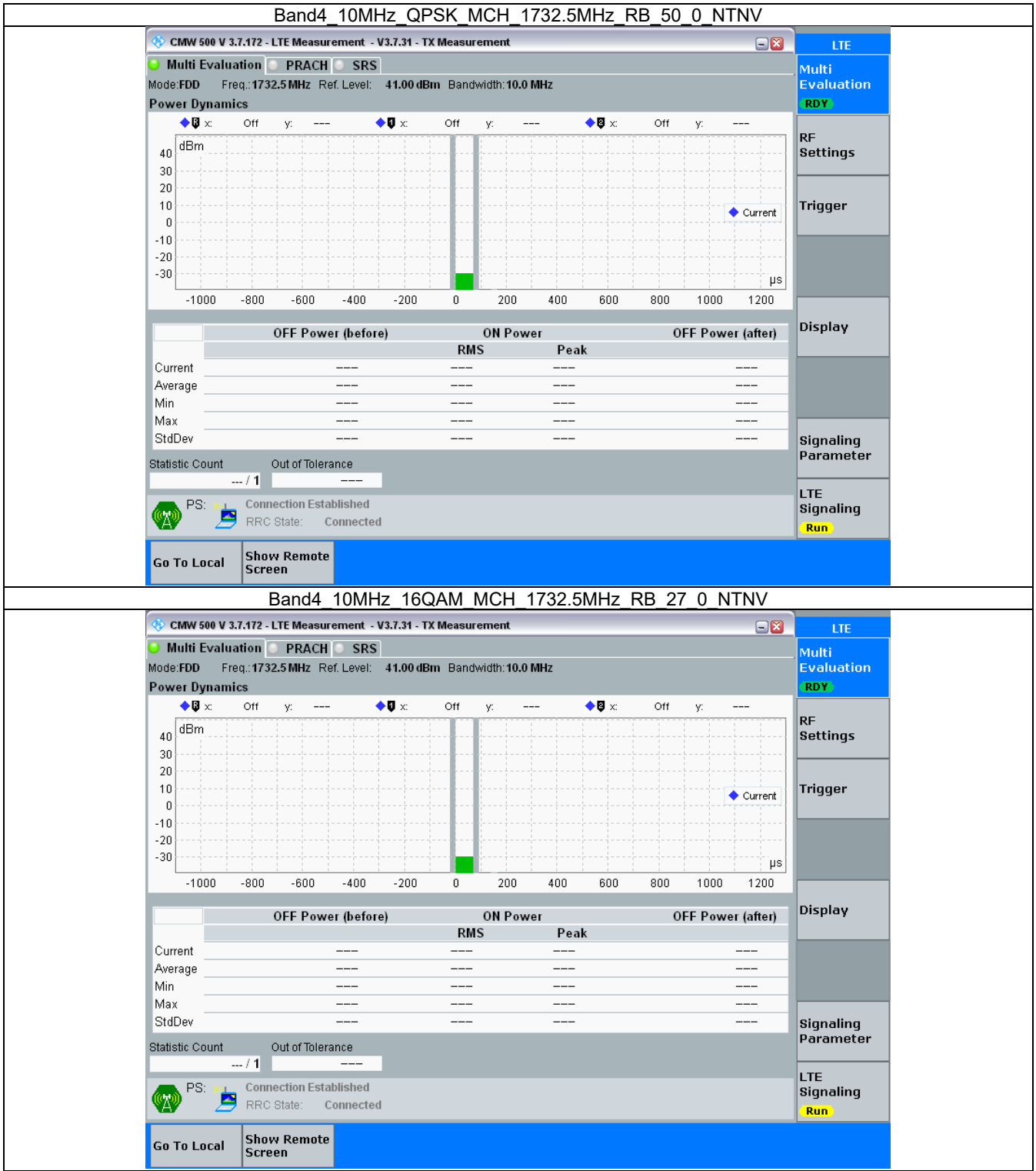
Statistic Count Out of Tolerance

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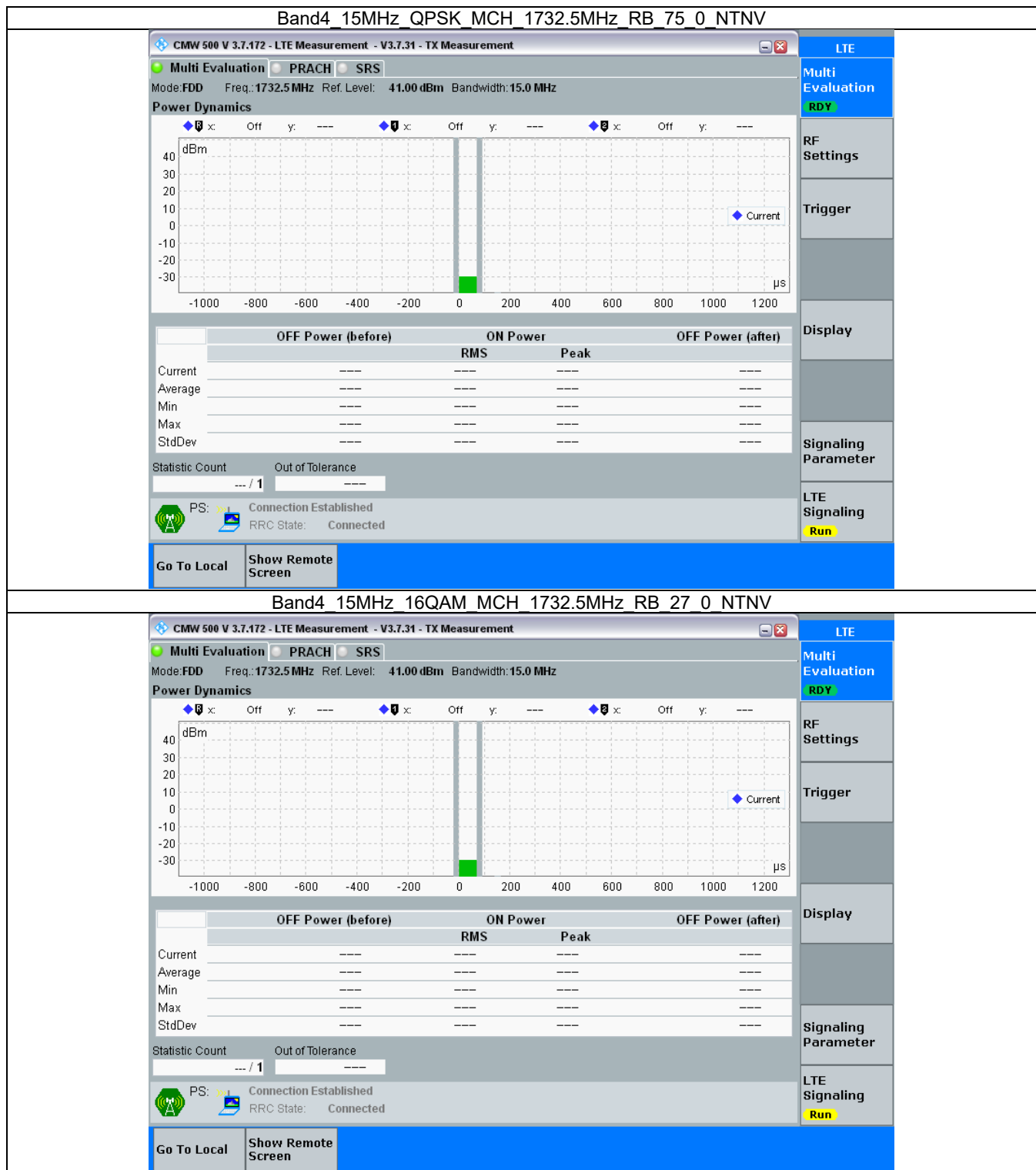
PS: Connection Established
RRC State: Connected

Go To Local Show Remote Screen

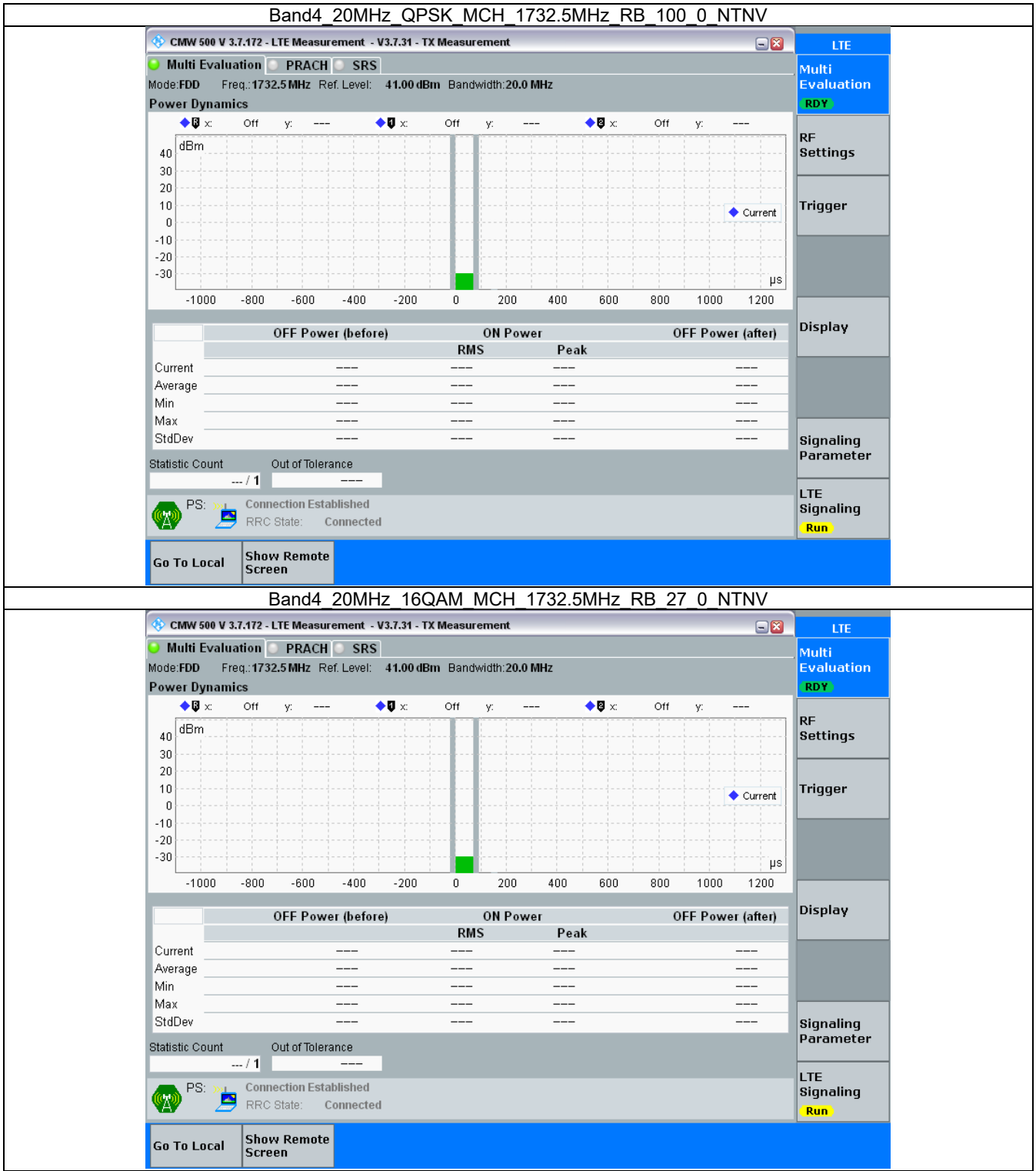
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.123	/	Pass
		1732.5	6	0	1.100	/	Pass
		1754.3	6	0	1.144	/	Pass
	16QAM	1710.7	6	0	1.107	/	Pass
		1732.5	6	0	1.112	/	Pass
		1754.3	6	0	1.126	/	Pass
3	QPSK	1711.5	15	0	2.753	/	Pass
		1732.5	15	0	2.736	/	Pass
		1753.5	15	0	2.769	/	Pass
	16QAM	1711.5	15	0	2.741	/	Pass
		1732.5	15	0	2.729	/	Pass
		1753.5	15	0	2.749	/	Pass
5	QPSK	1712.5	25	0	4.584	/	Pass
		1732.5	25	0	4.535	/	Pass
		1752.5	25	0	4.587	/	Pass
	16QAM	1712.5	25	0	4.541	/	Pass
		1732.5	25	0	4.552	/	Pass
		1752.5	25	0	4.586	/	Pass
10	QPSK	1715	50	0	9.062	/	Pass
		1732.5	50	0	9.040	/	Pass
		1750	50	0	9.026	/	Pass
	16QAM	1715	27	0	5.090	/	Pass
		1732.5	27	0	5.060	/	Pass
		1750	27	23	5.109	/	Pass
15	QPSK	1717.5	75	0	13.578	/	Pass
		1732.5	75	0	13.568	/	Pass
		1747.5	75	0	13.573	/	Pass
	16QAM	1717.5	27	0	5.344	/	Pass
		1732.5	27	0	5.263	/	Pass
		1747.5	27	48	5.366	/	Pass
20	QPSK	1720	100	0	18.082	/	Pass
		1732.5	100	0	18.043	/	Pass
		1745	100	0	18.069	/	Pass
	16QAM	1720	27	0	5.526	/	Pass
		1732.5	27	0	5.455	/	Pass
		1745	27	73	5.574	/	Pass

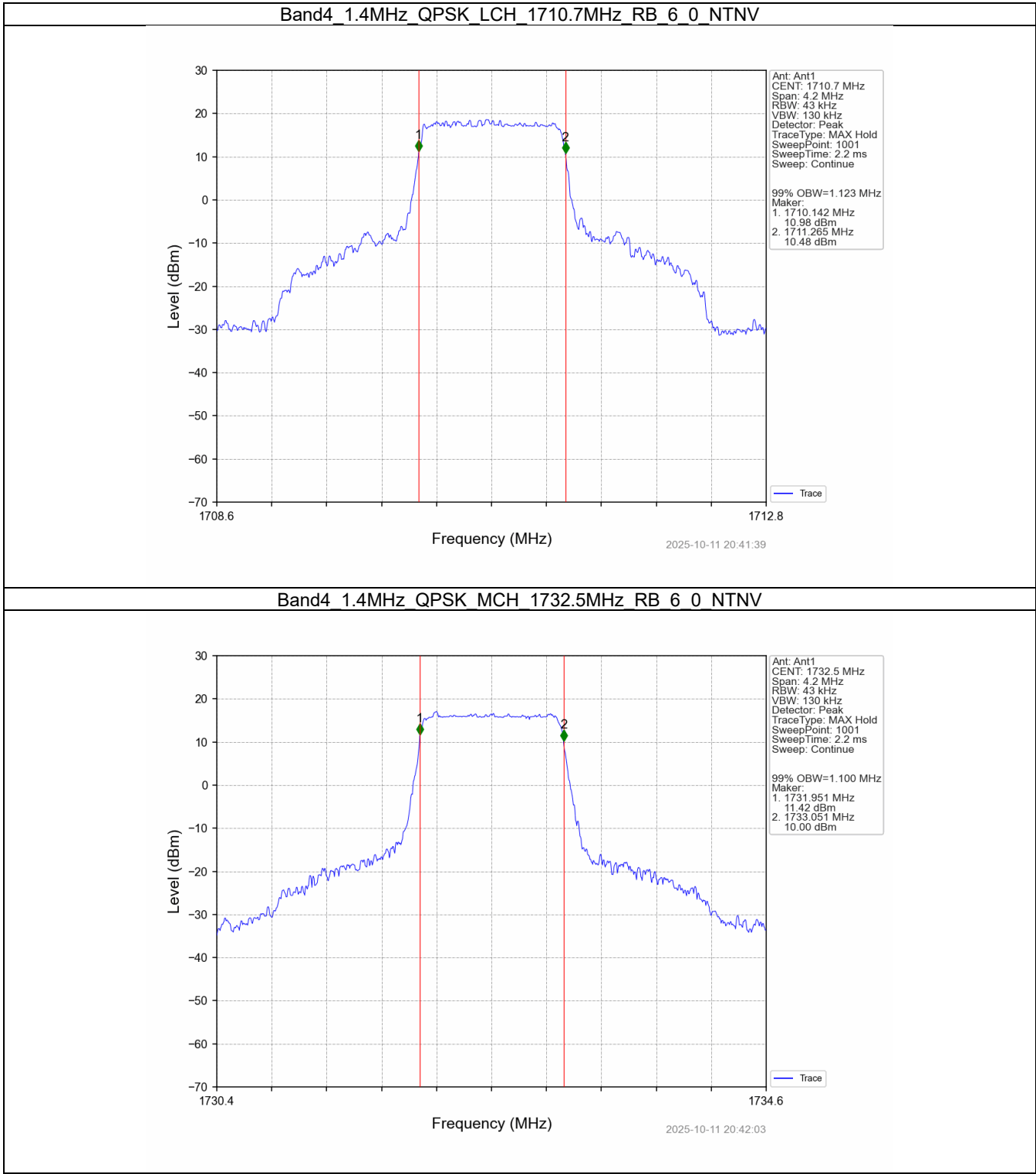
4.1.2 Band4_XDB

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.671	/	Pass
		1732.5	6	0	1.309	/	Pass
		1754.3	6	0	2.025	/	Pass

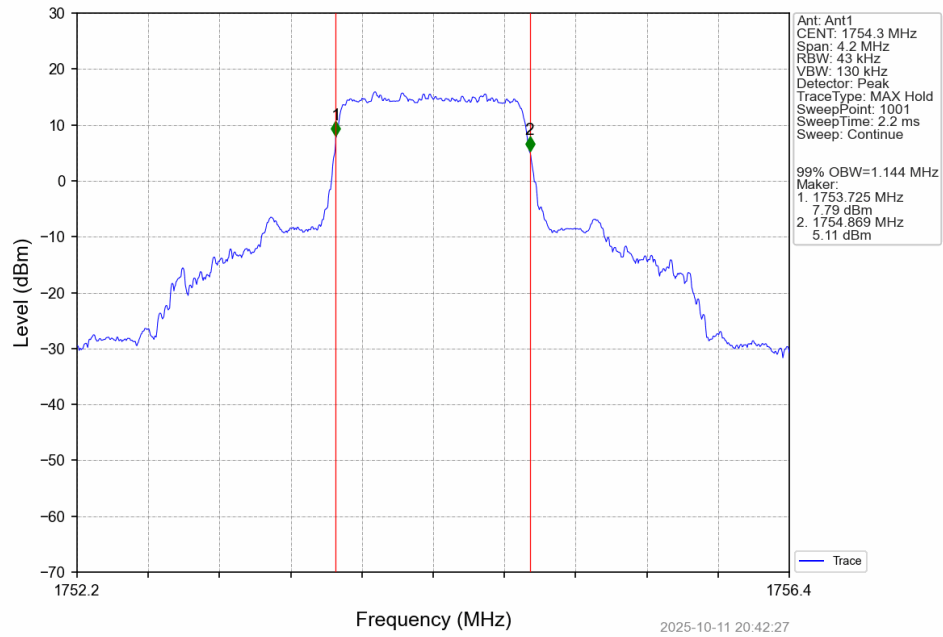
	16QAM	1710.7	6	0	1.316	/	Pass
		1732.5	6	0	1.306	/	Pass
		1754.3	6	0	1.798	/	Pass
3	QPSK	1711.5	15	0	3.327	/	Pass
		1732.5	15	0	3.017	/	Pass
		1753.5	15	0	3.948	/	Pass
	16QAM	1711.5	15	0	3.030	/	Pass
		1732.5	15	0	3.003	/	Pass
		1753.5	15	0	4.665	/	Pass
5	QPSK	1712.5	25	0	5.034	/	Pass
		1732.5	25	0	5.030	/	Pass
		1752.5	25	0	6.291	/	Pass
	16QAM	1712.5	25	0	5.141	/	Pass
		1732.5	25	0	5.058	/	Pass
		1752.5	25	0	5.306	/	Pass
10	QPSK	1715	50	0	10.048	/	Pass
		1732.5	50	0	9.912	/	Pass
		1750	50	0	9.898	/	Pass
	16QAM	1715	27	0	5.868	/	Pass
		1732.5	27	0	5.880	/	Pass
		1750	27	23	7.381	/	Pass
15	QPSK	1717.5	75	0	14.699	/	Pass
		1732.5	75	0	14.817	/	Pass
		1747.5	75	0	14.814	/	Pass
	16QAM	1717.5	27	0	8.074	/	Pass
		1732.5	27	0	6.190	/	Pass
		1747.5	27	48	7.784	/	Pass
20	QPSK	1720	100	0	19.494	/	Pass
		1732.5	100	0	19.492	/	Pass
		1745	100	0	19.543	/	Pass
	16QAM	1720	27	0	8.854	/	Pass
		1732.5	27	0	6.521	/	Pass
		1745	27	73	8.507	/	Pass

4.2 Test Graph

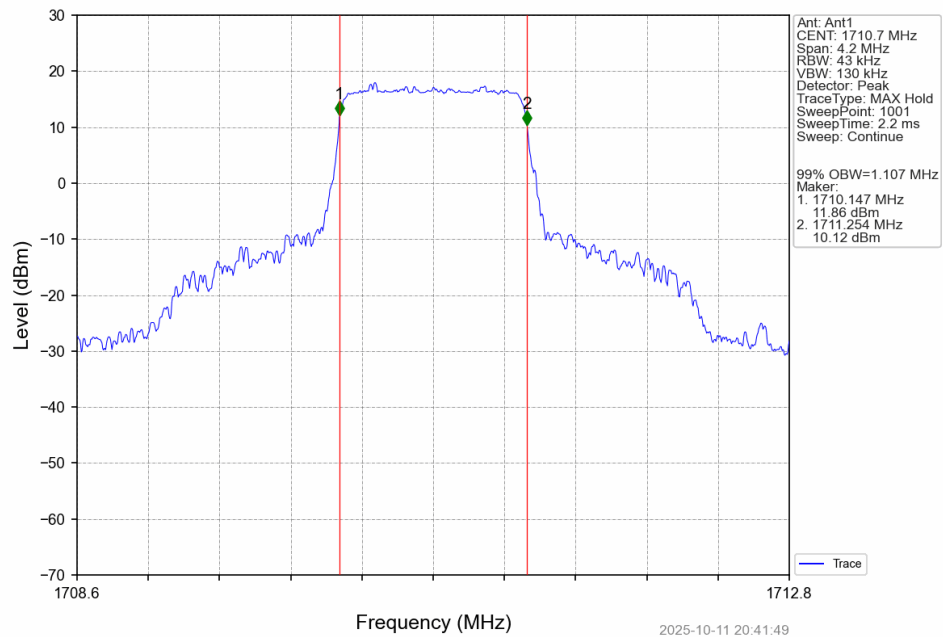
4.2.1 Band4_OBW



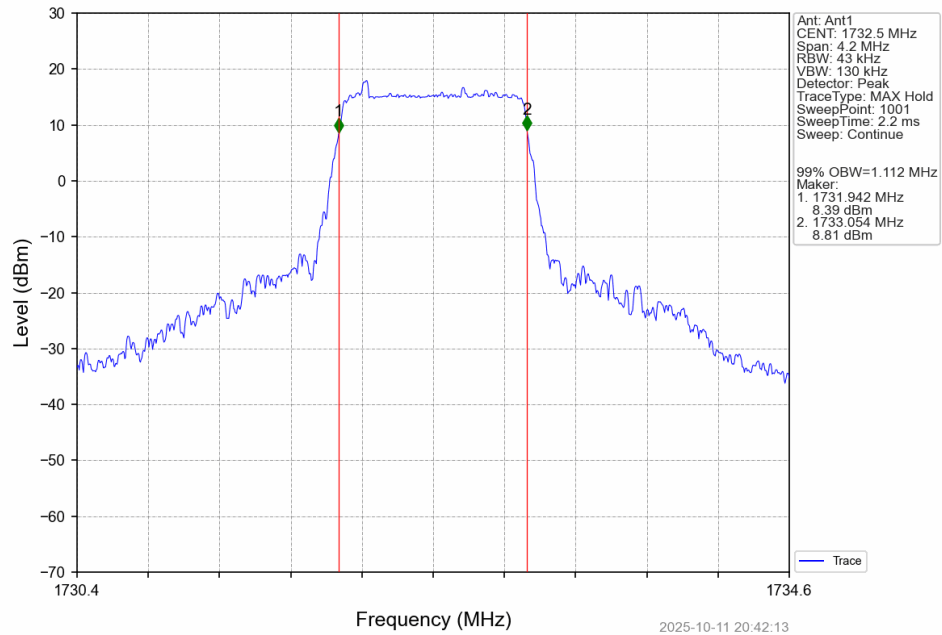
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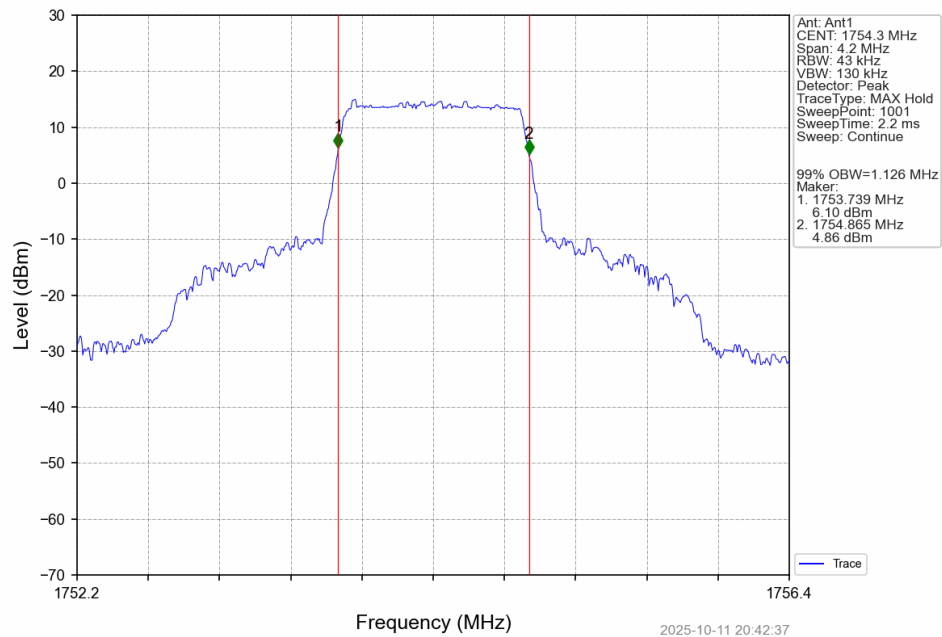
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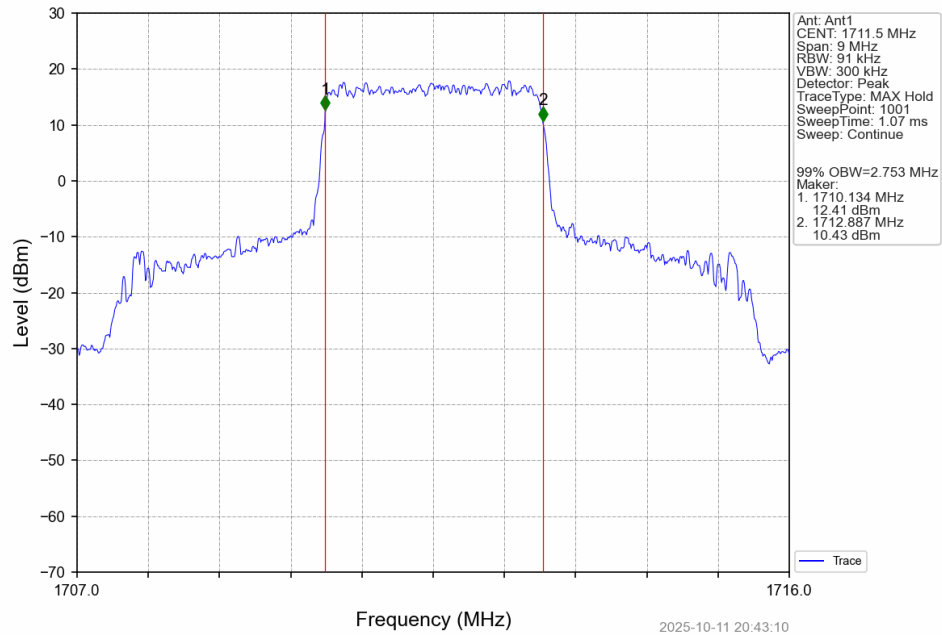
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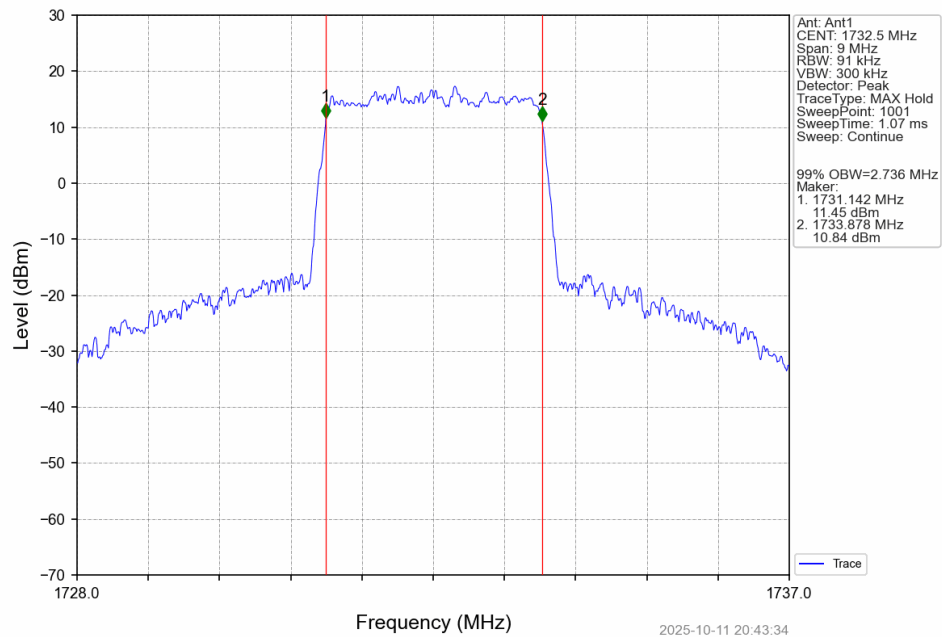
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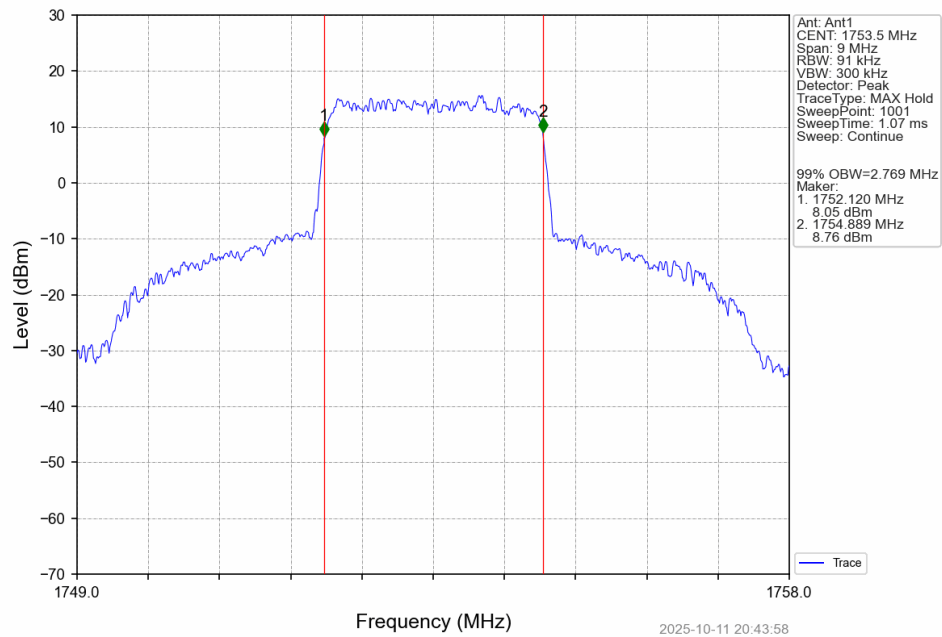
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



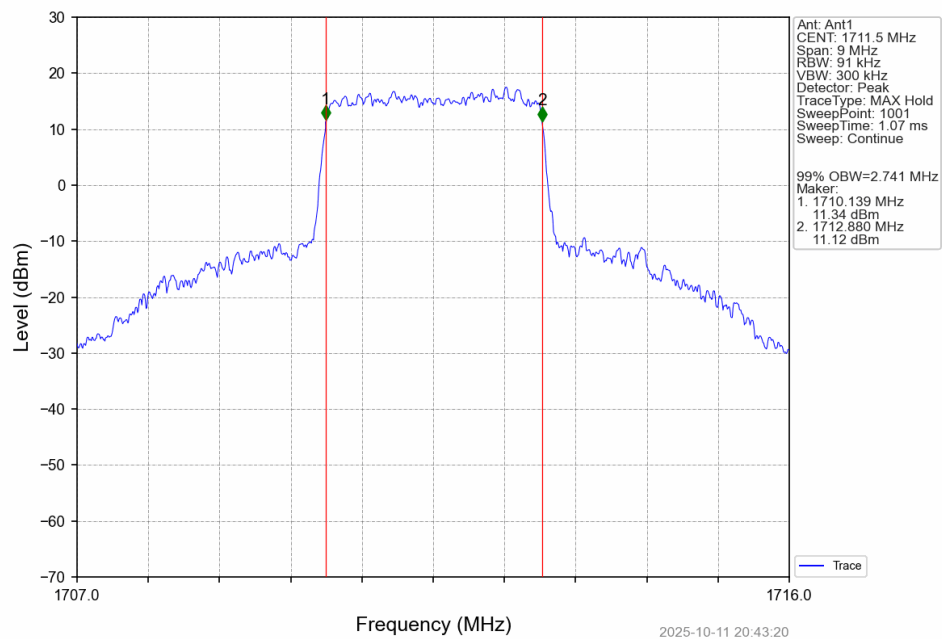
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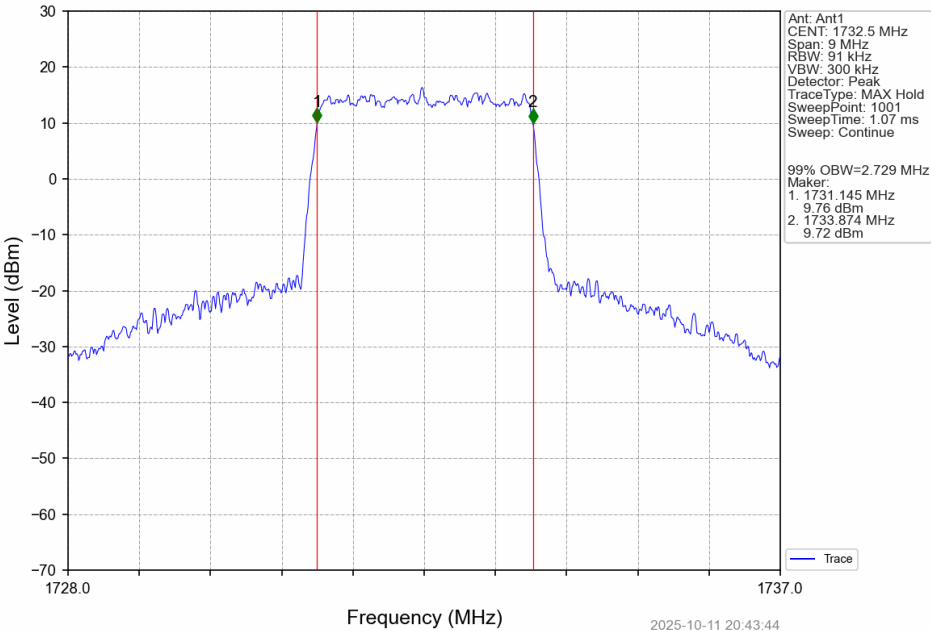
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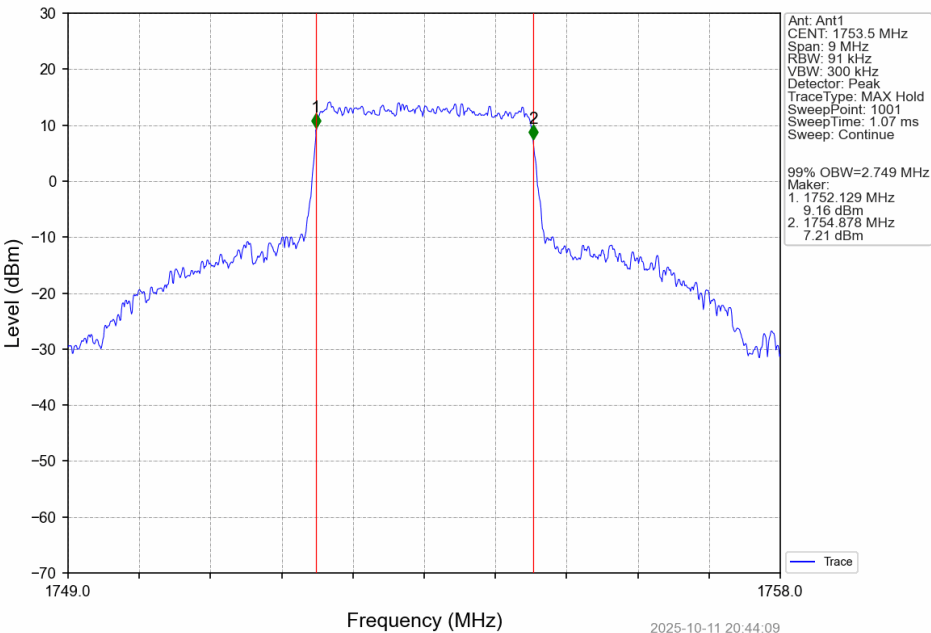
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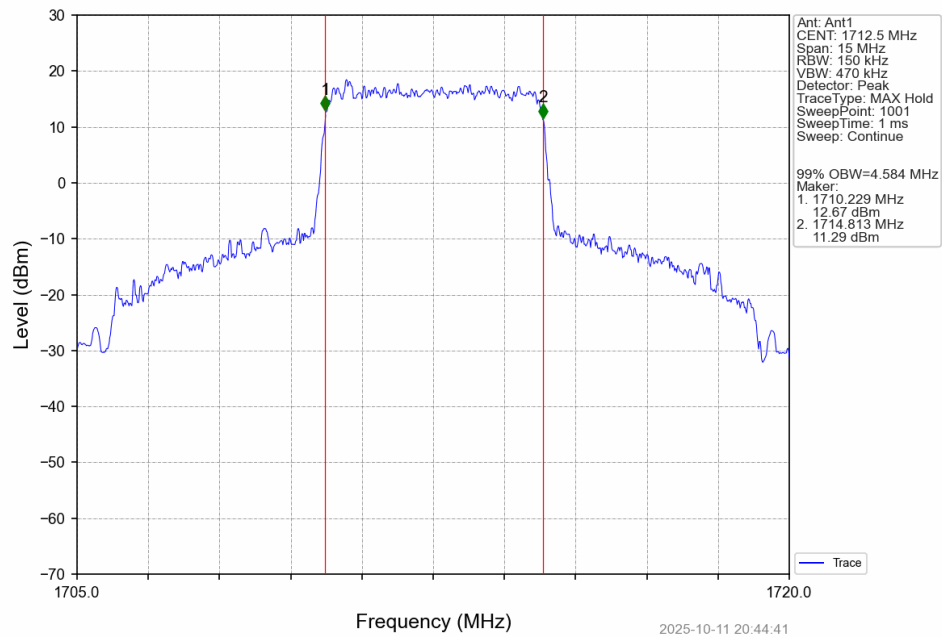
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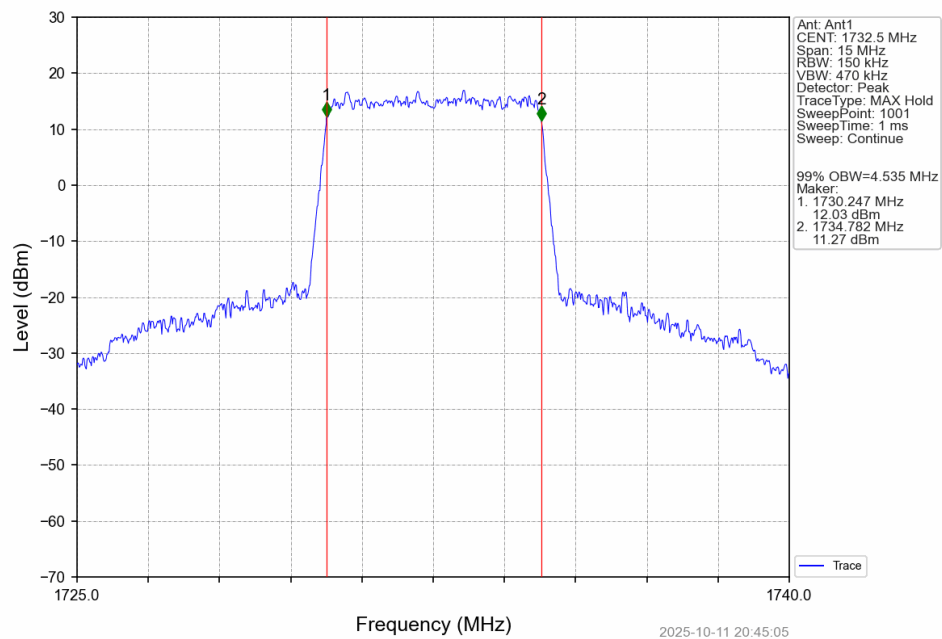
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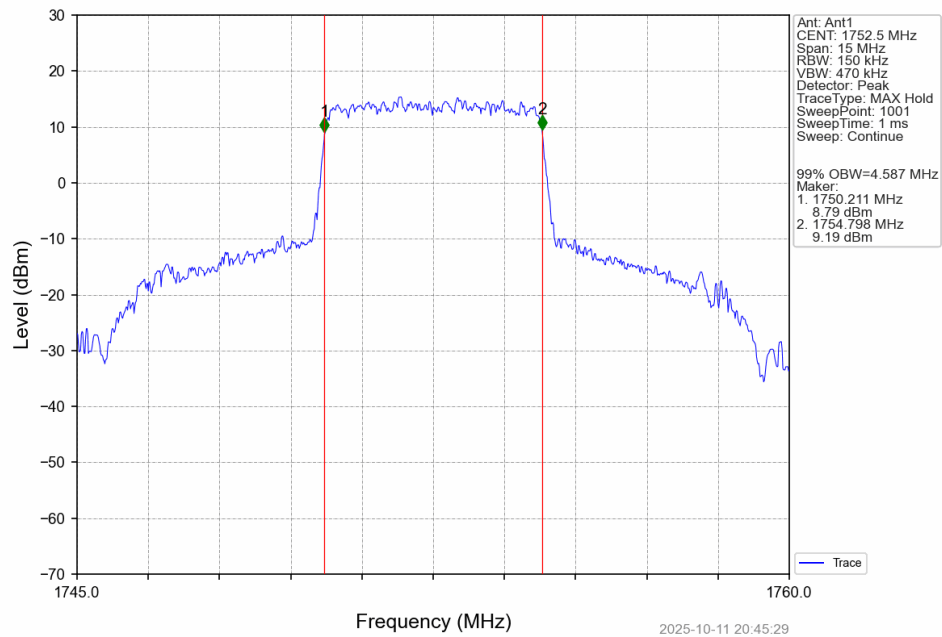
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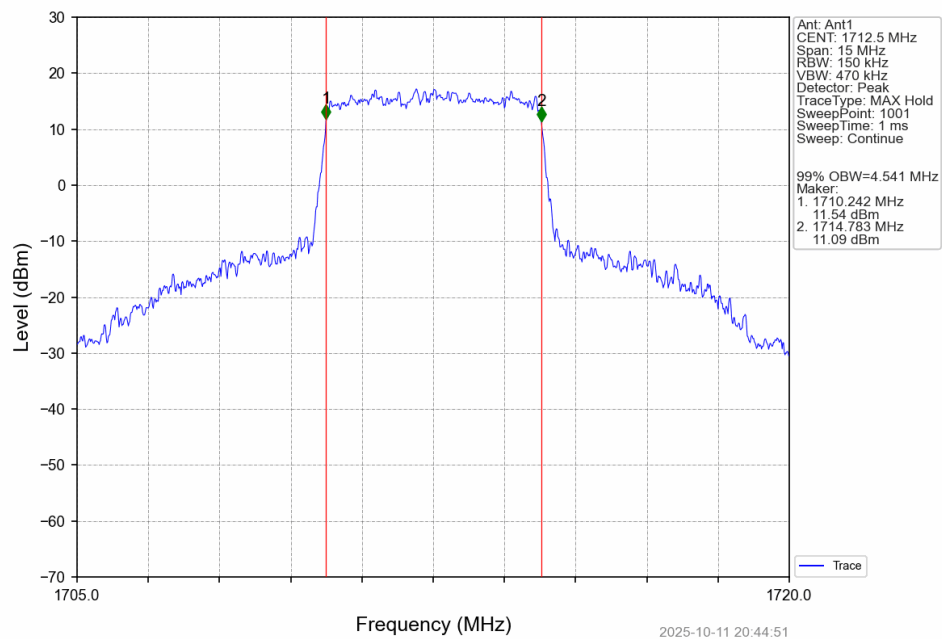
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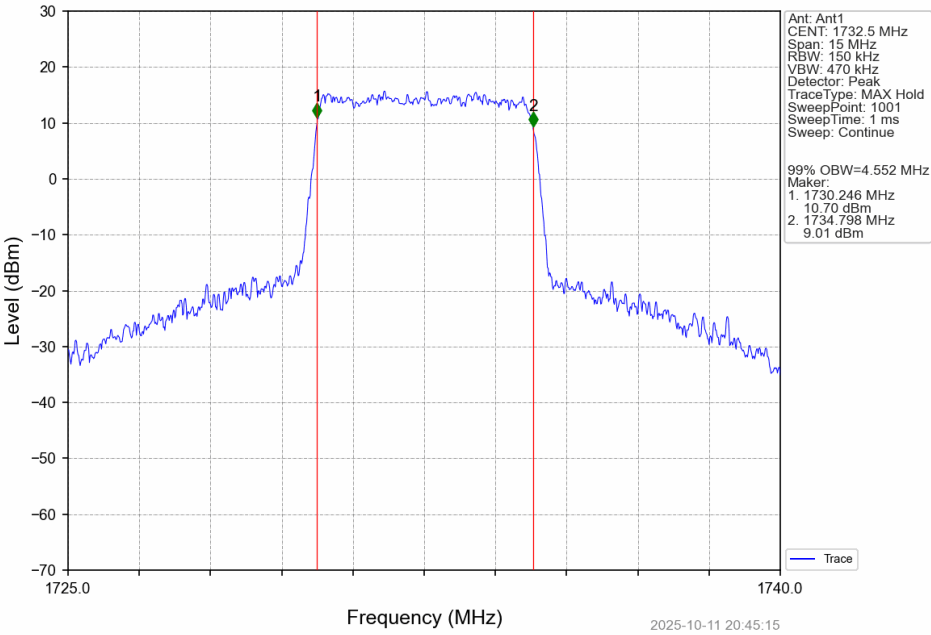
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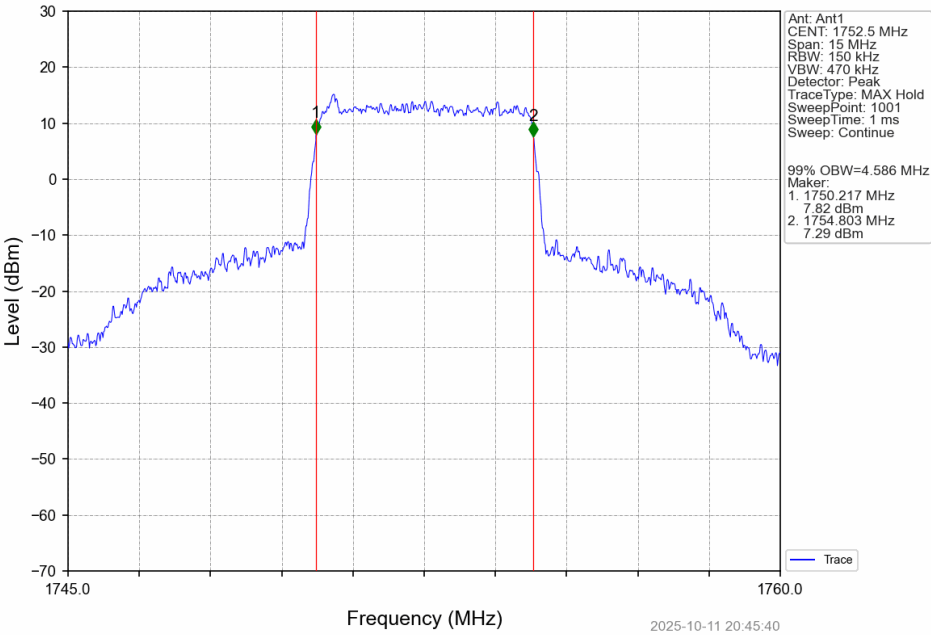
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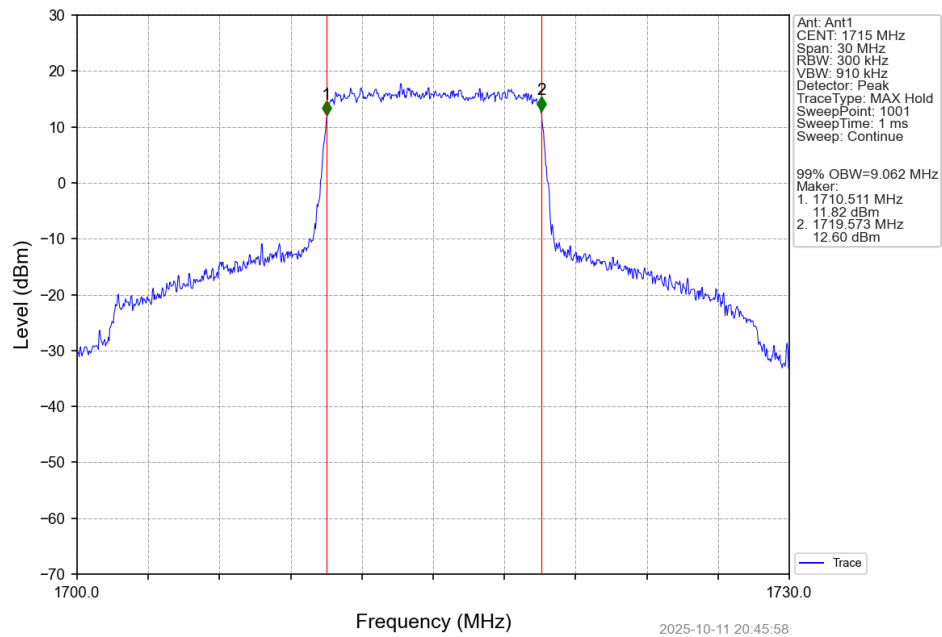
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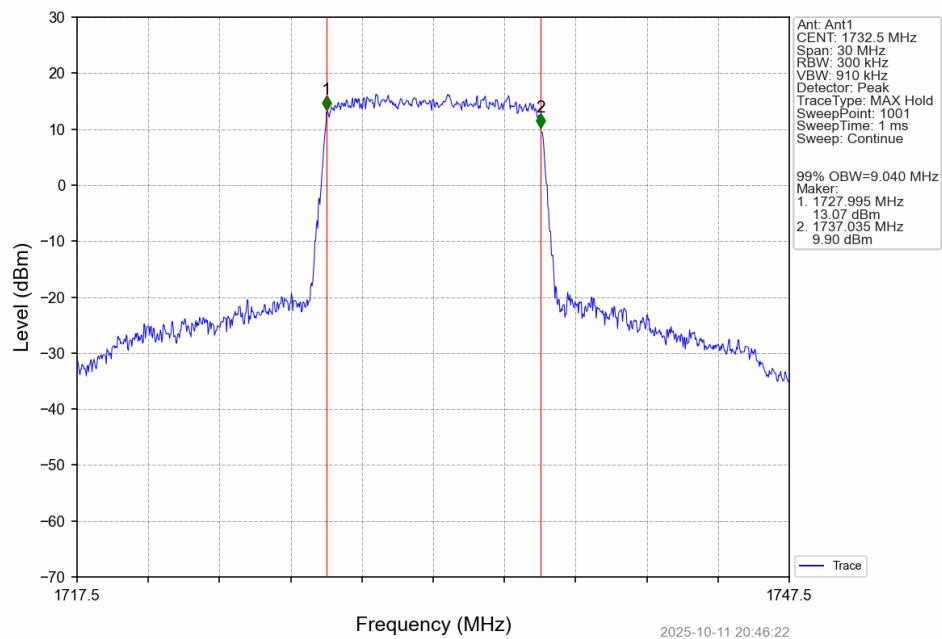
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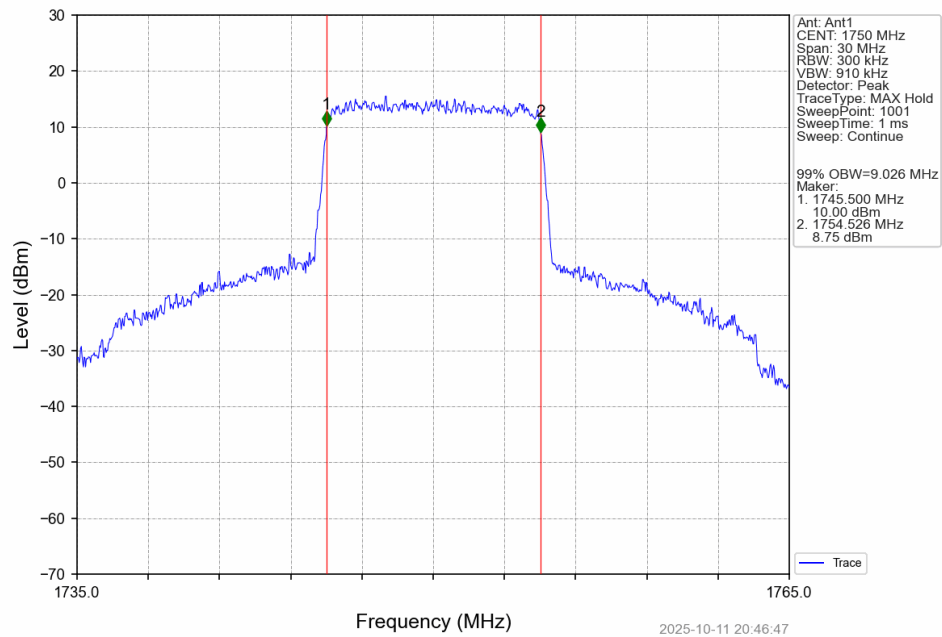
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



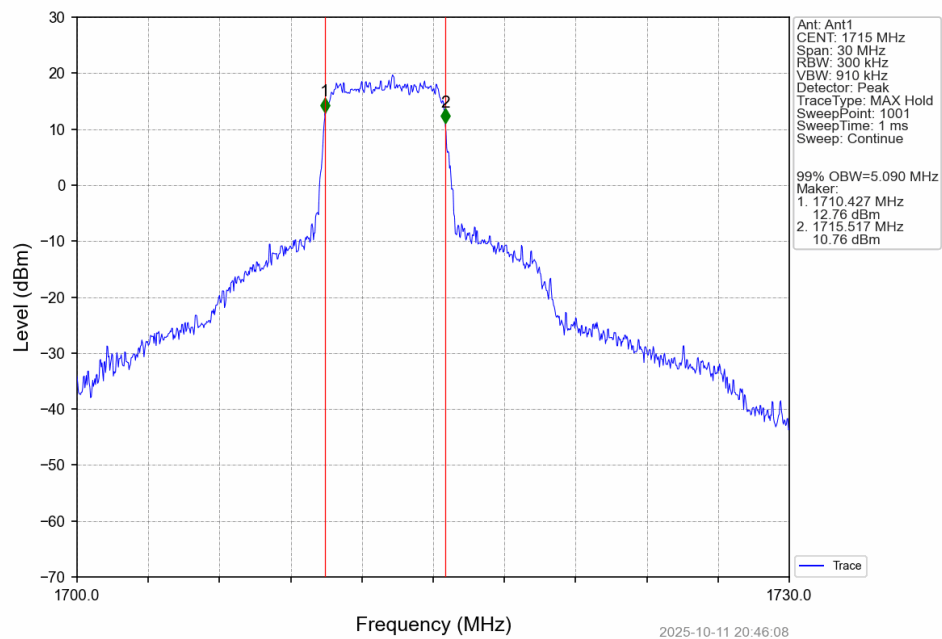
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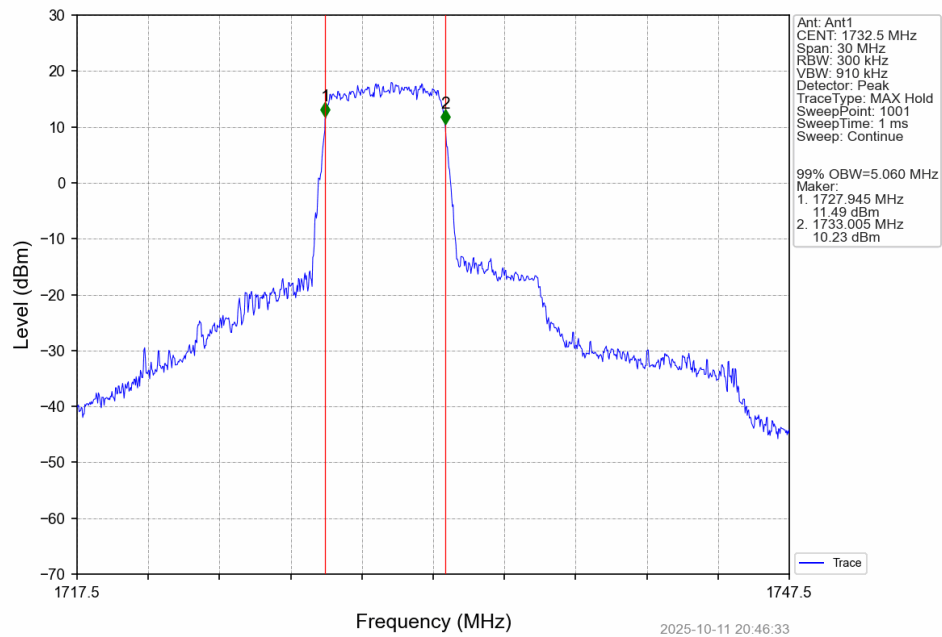
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



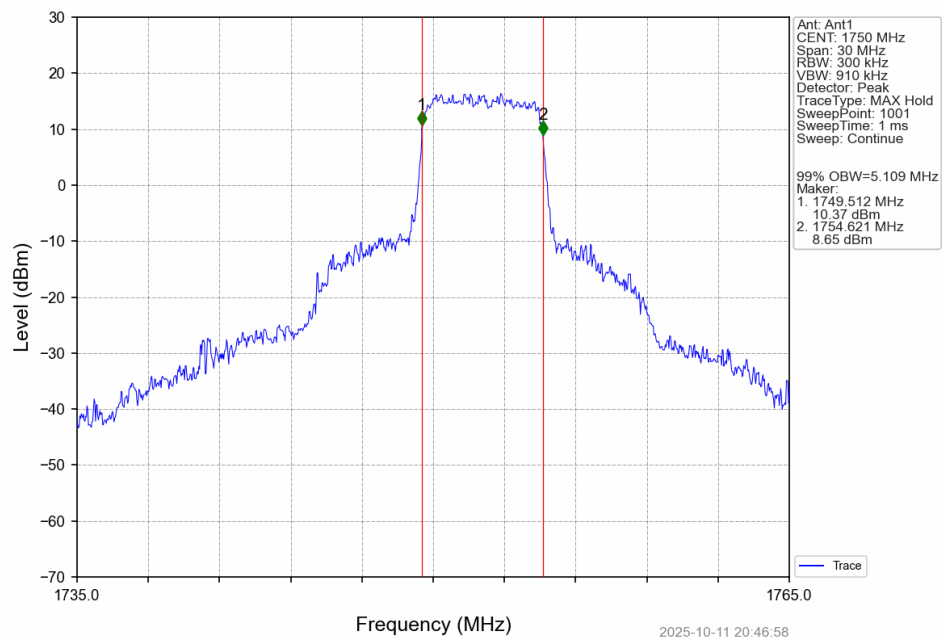
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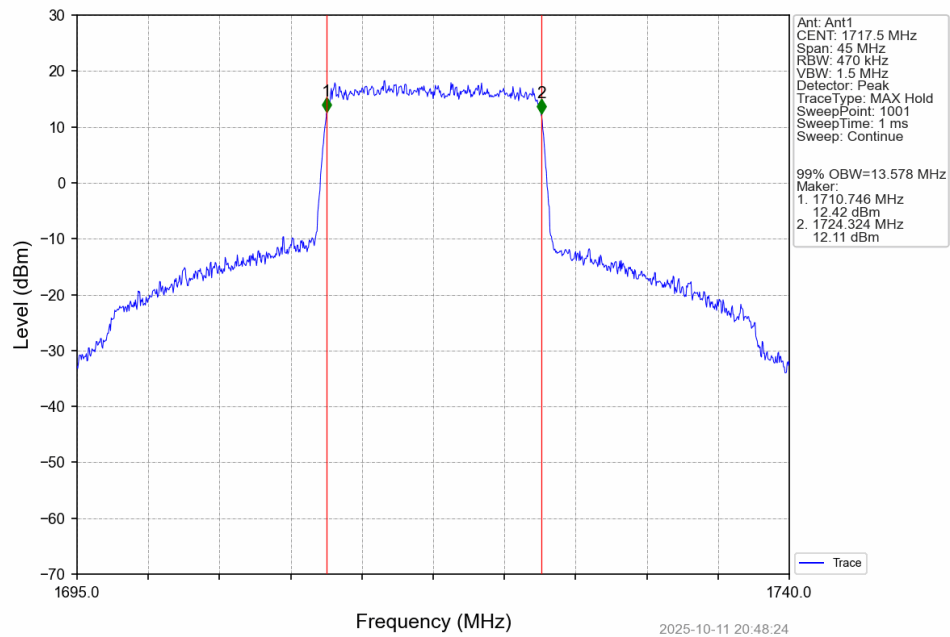
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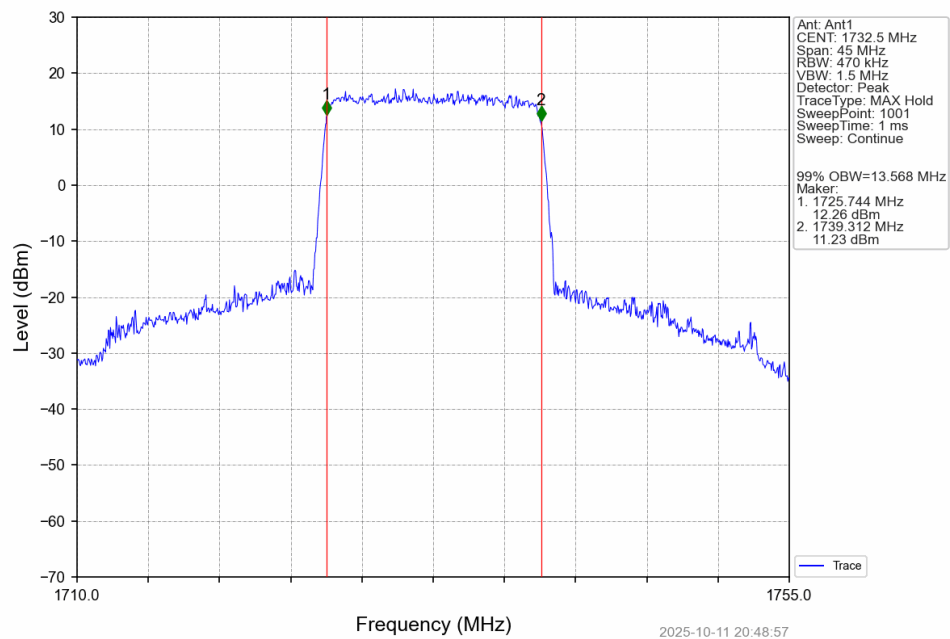
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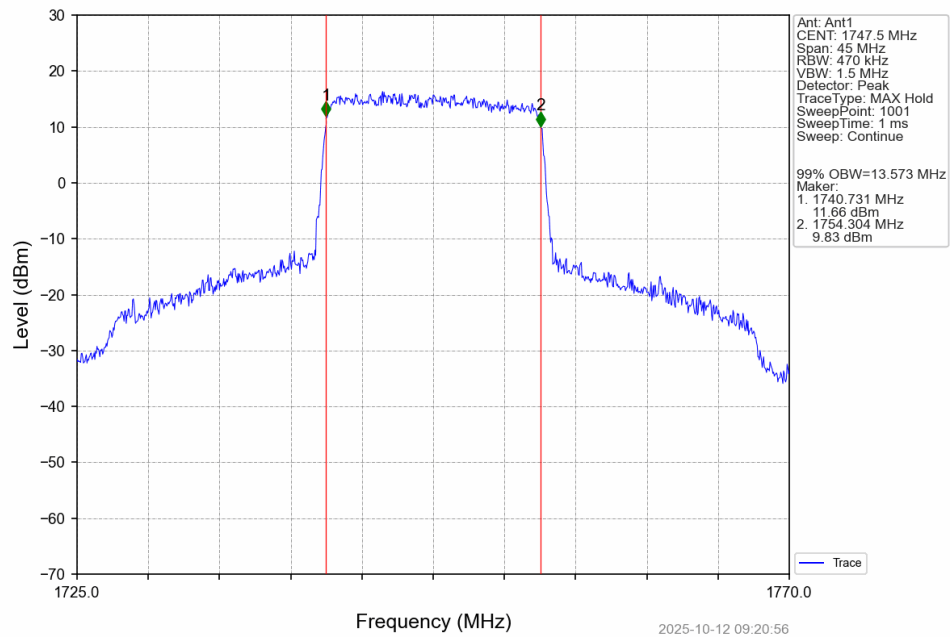
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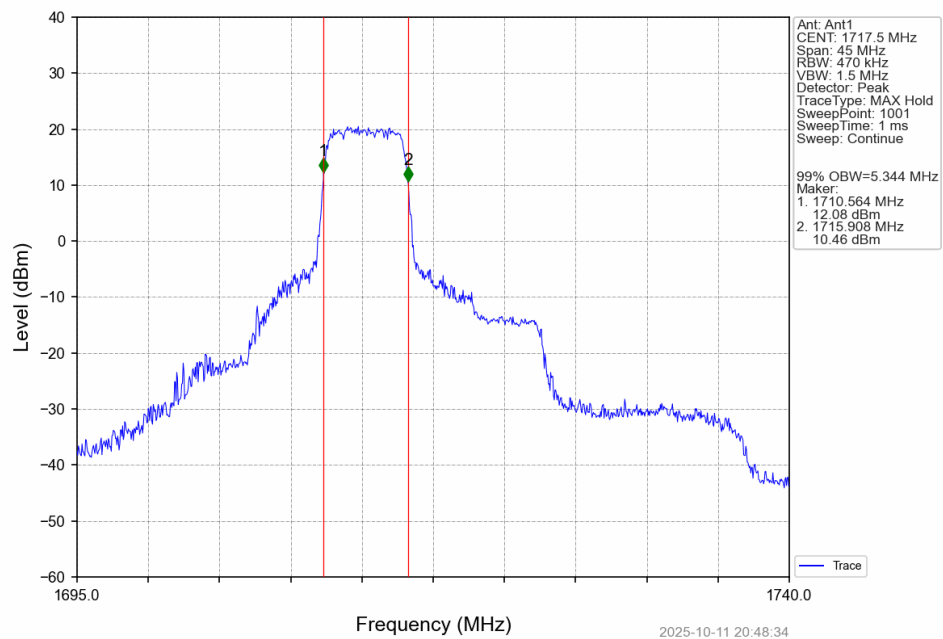
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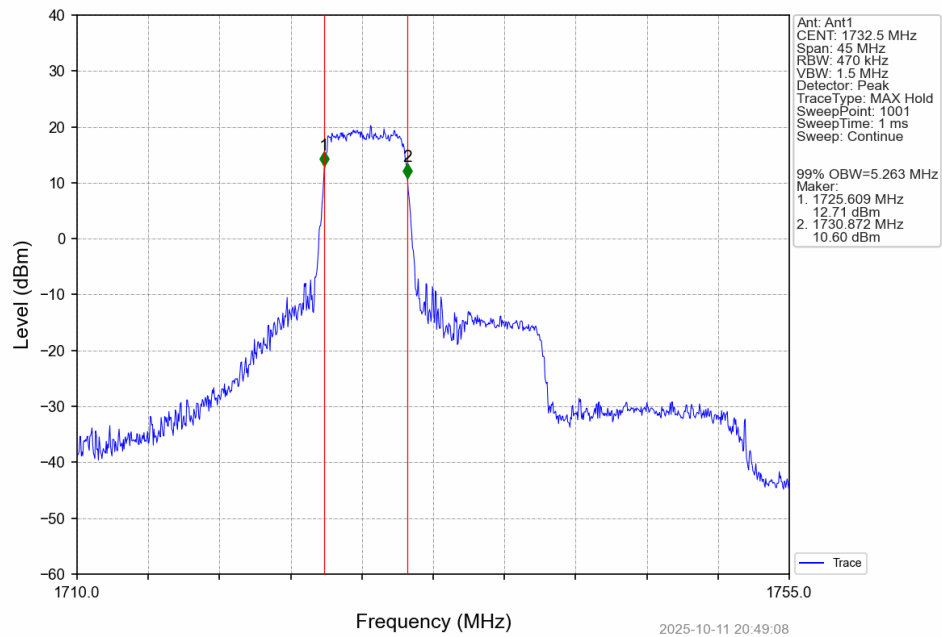
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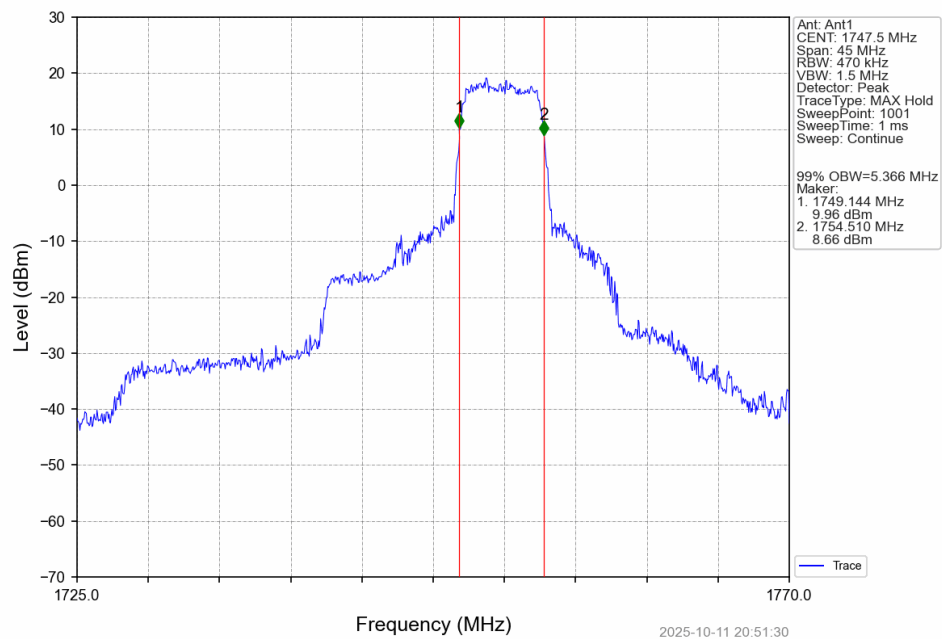
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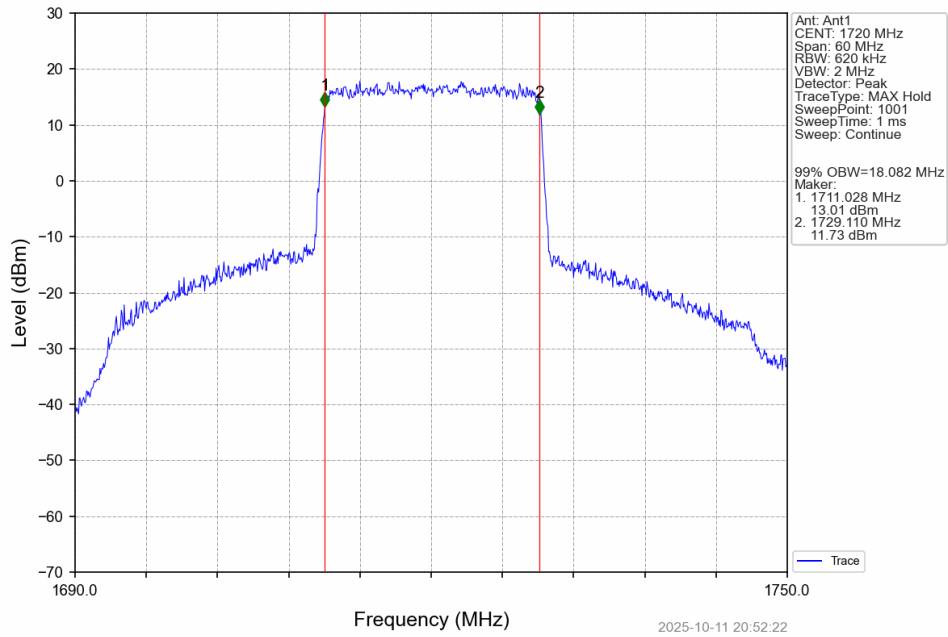
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



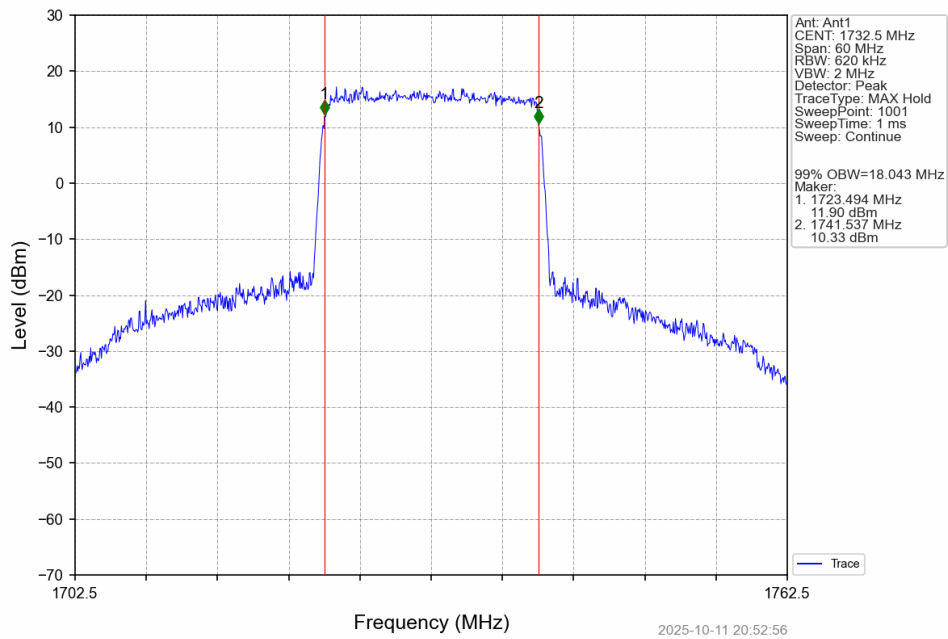
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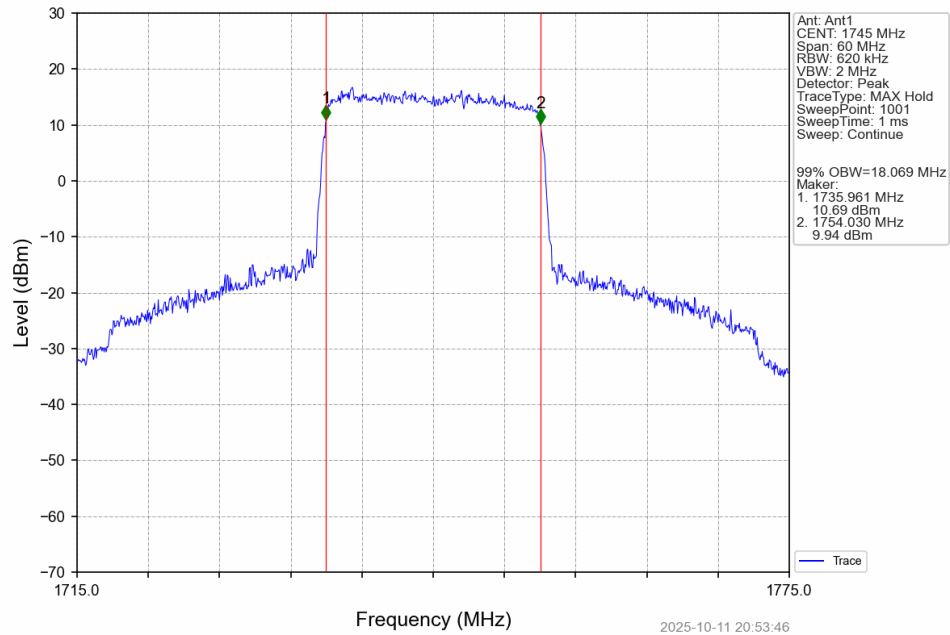
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



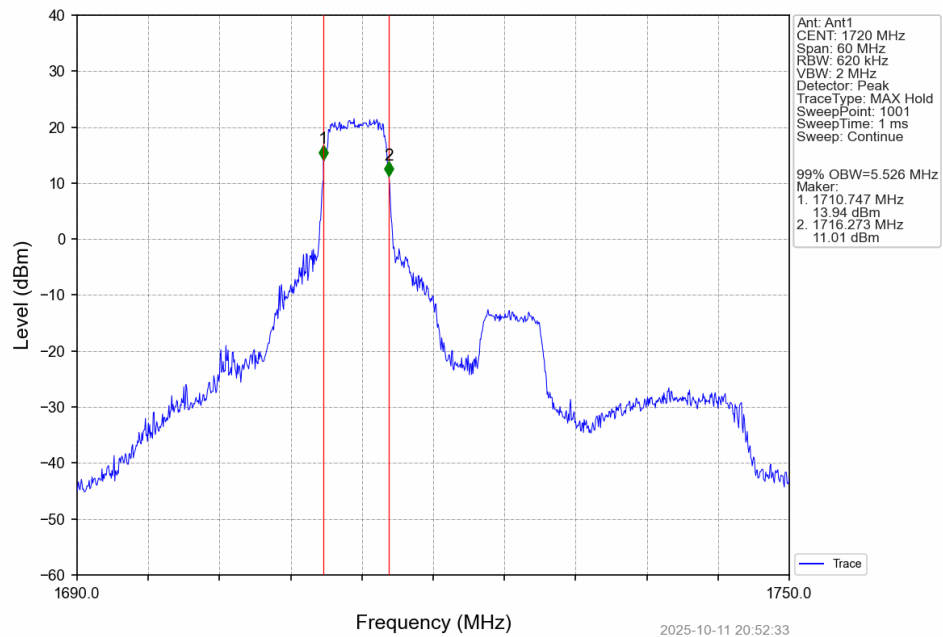
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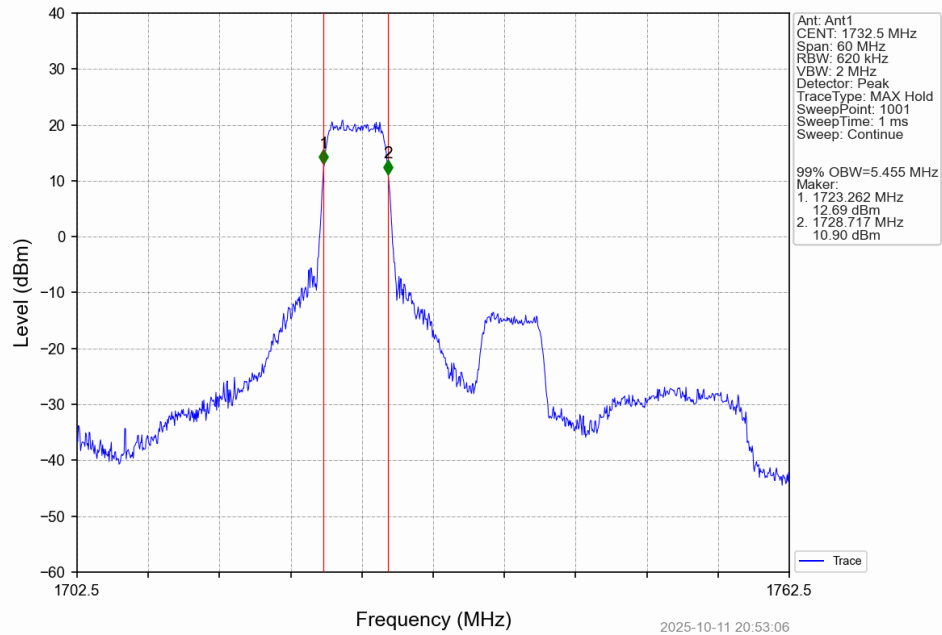
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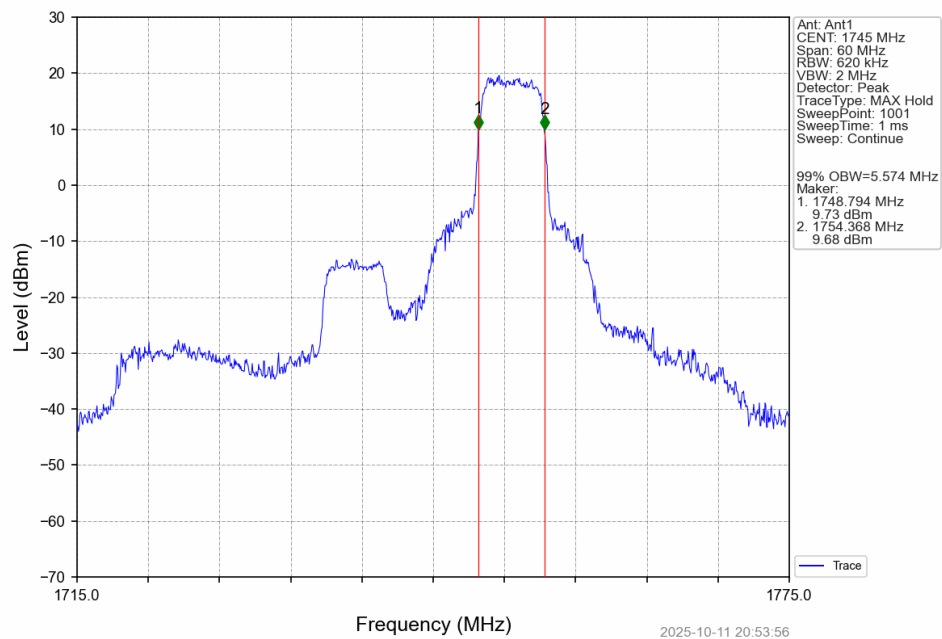
Band4_20MHz_16QAM_LCH_1720MHz_RB_27_0_NTNV



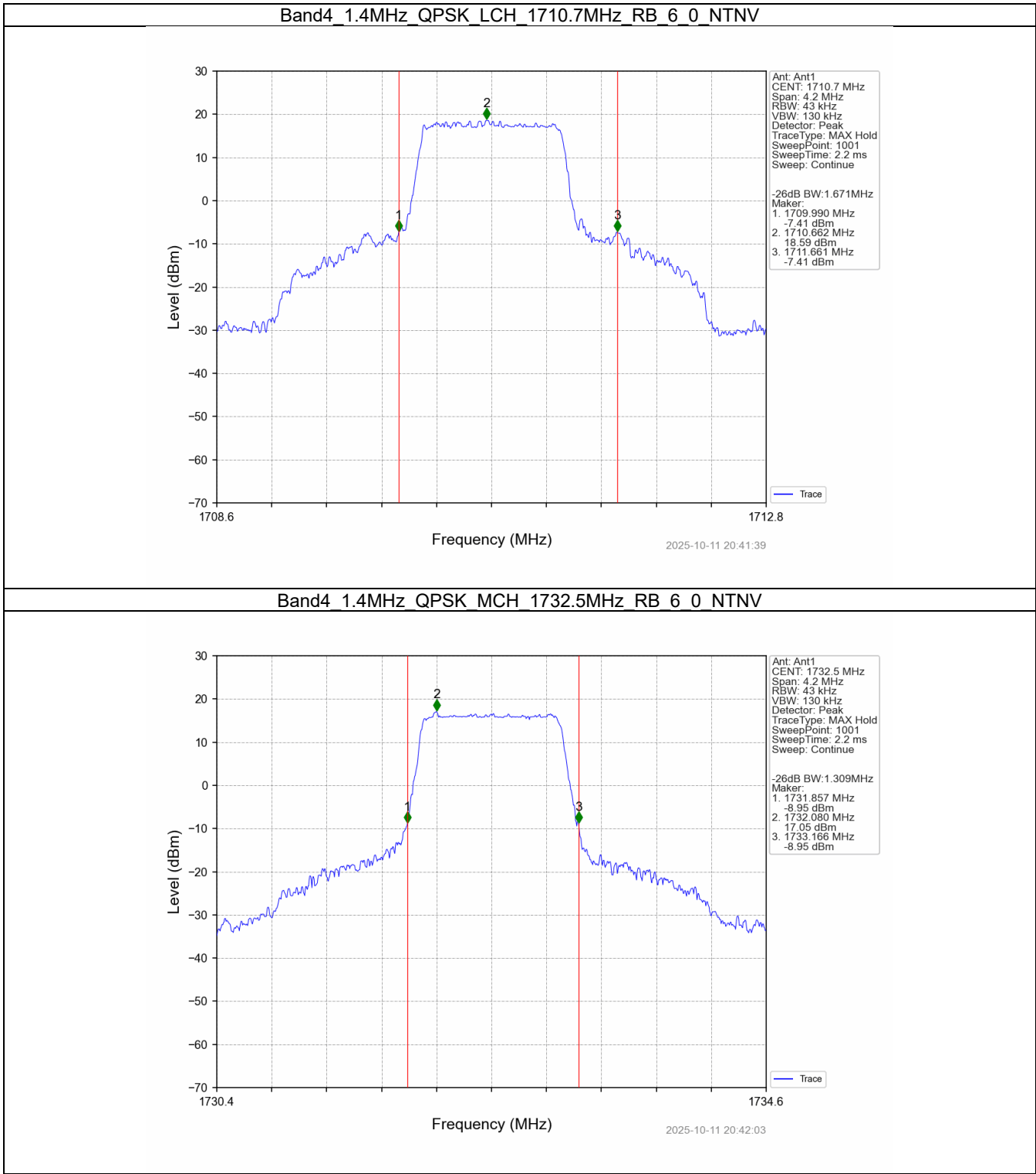
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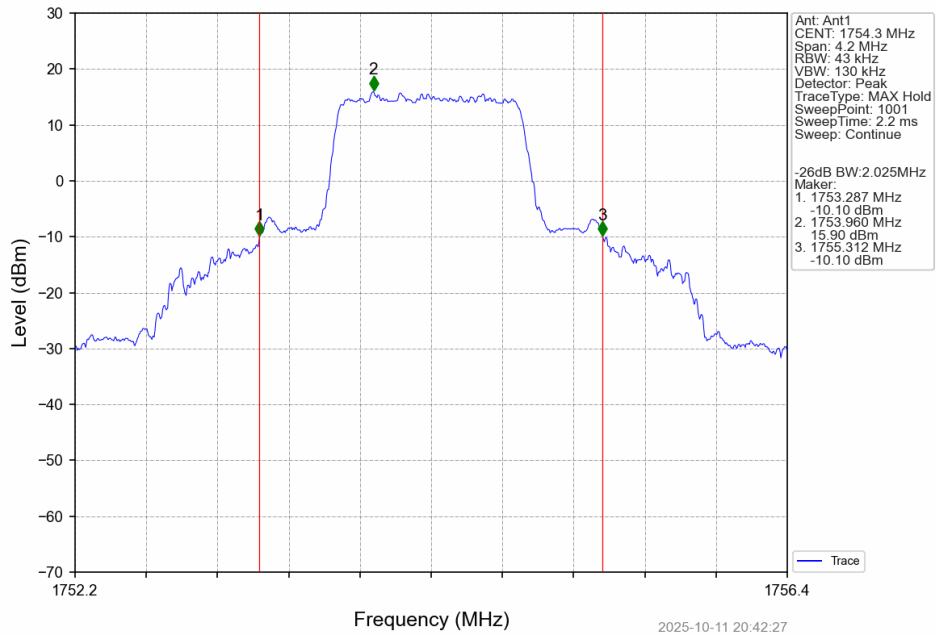
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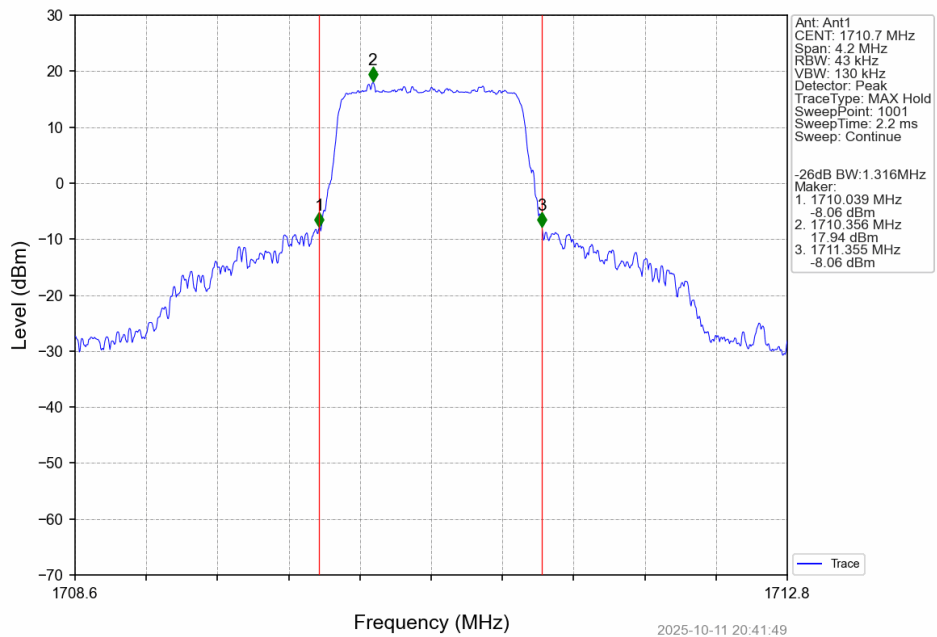
4.2.2 Band4_XDB



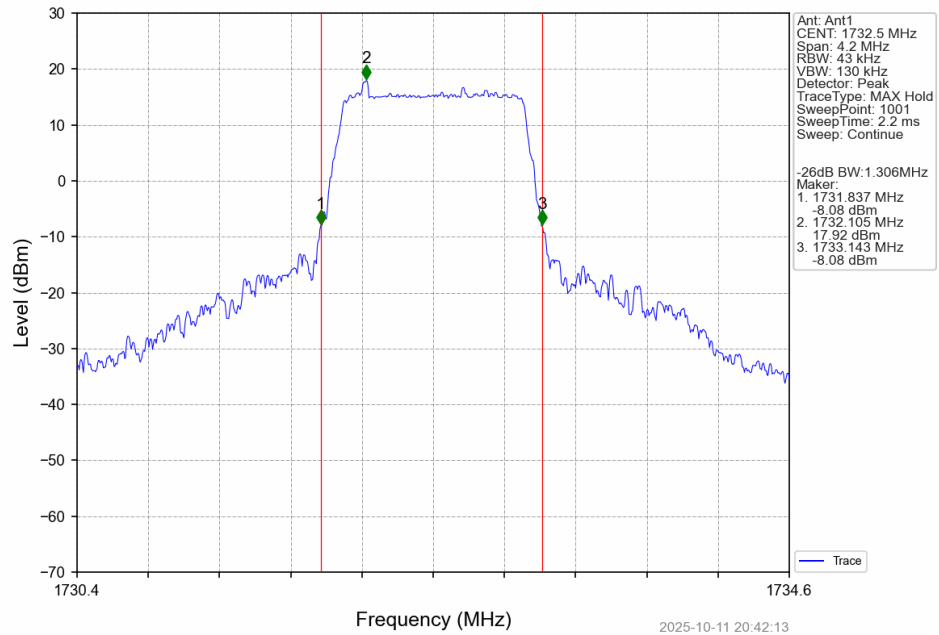
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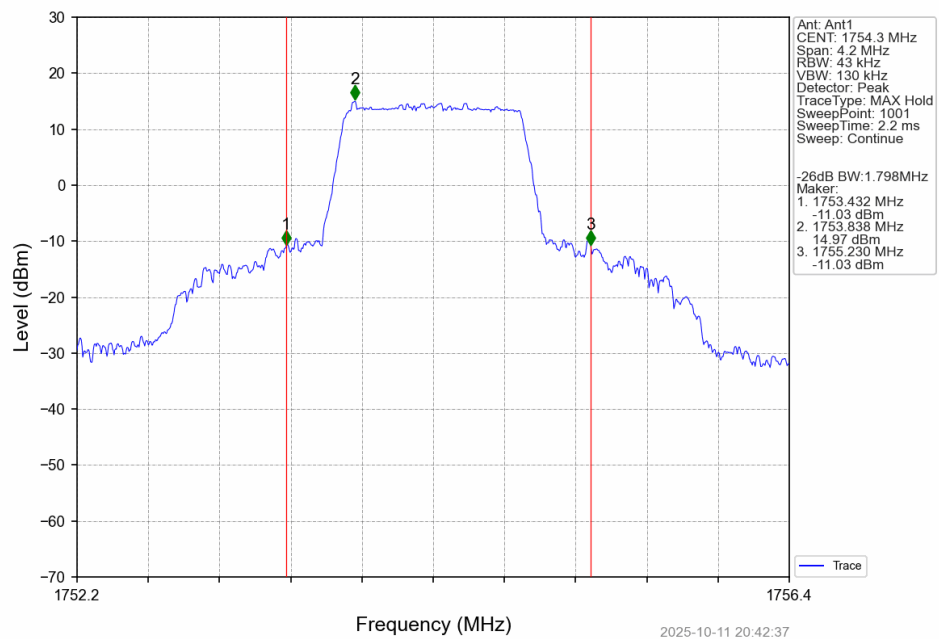
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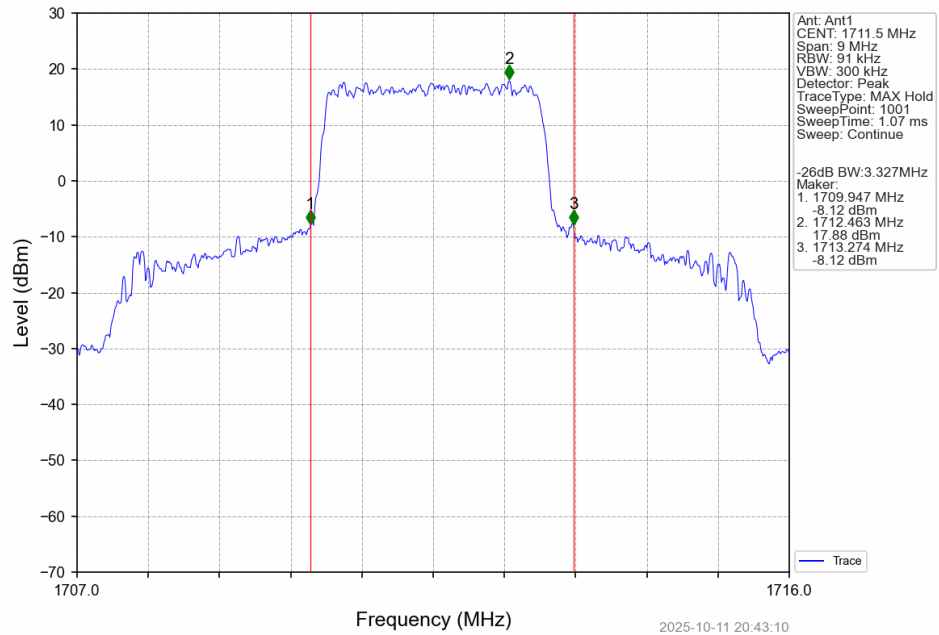
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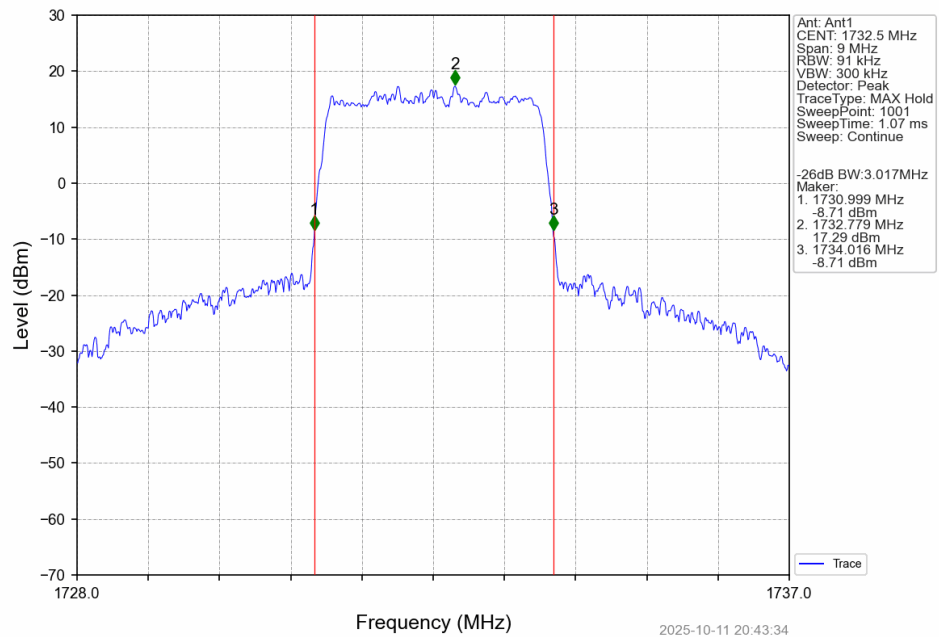
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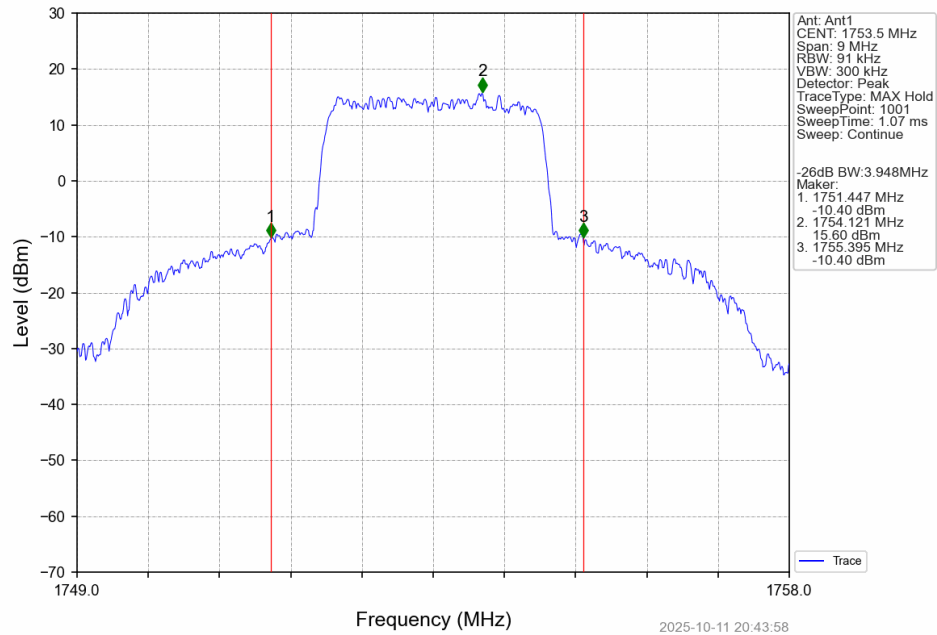
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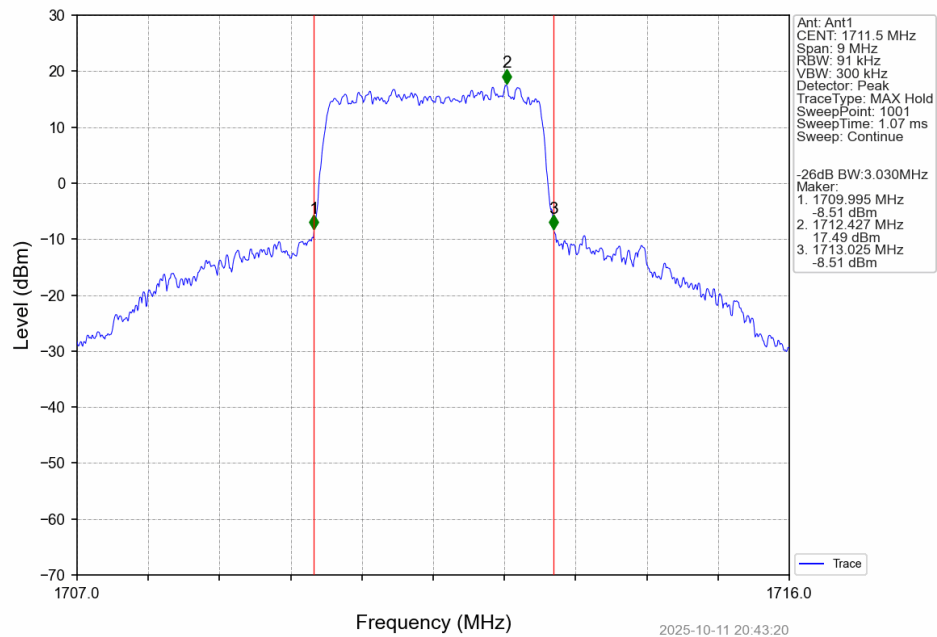
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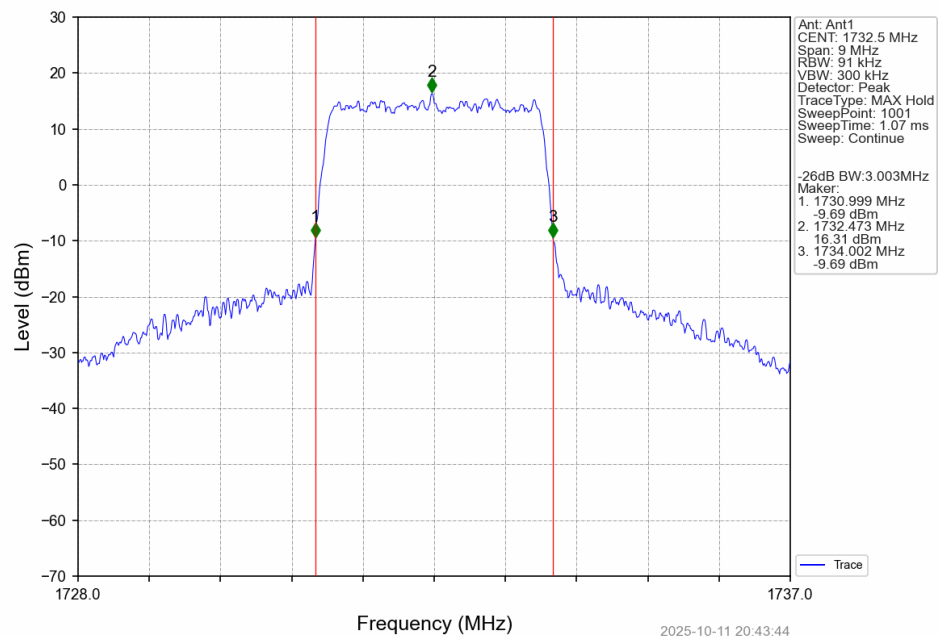
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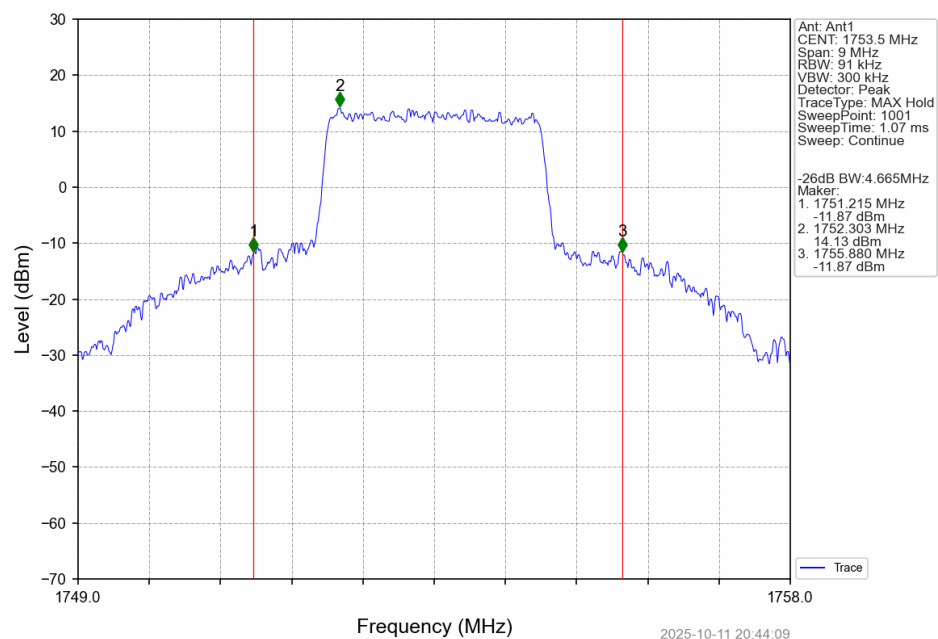
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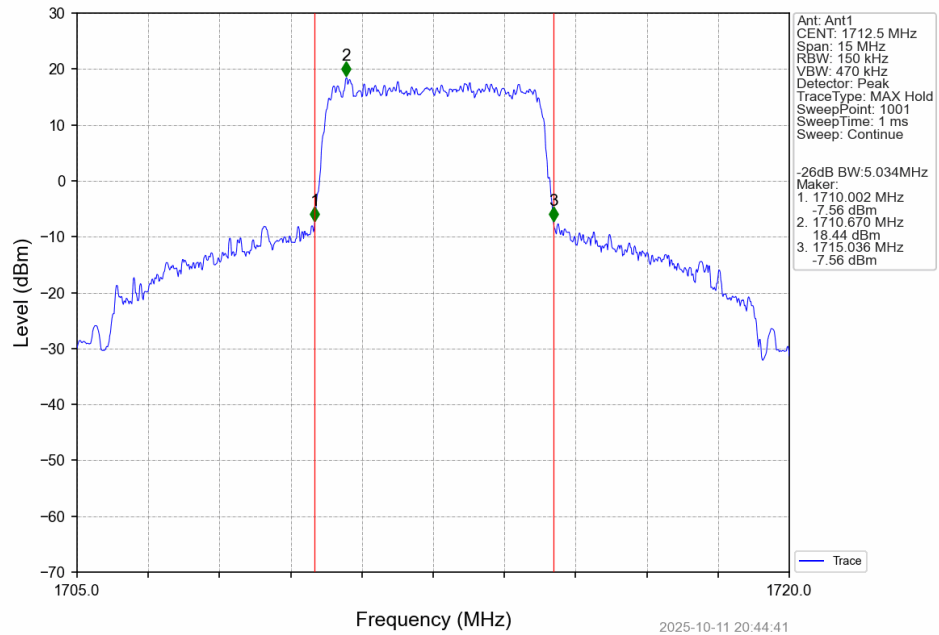
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



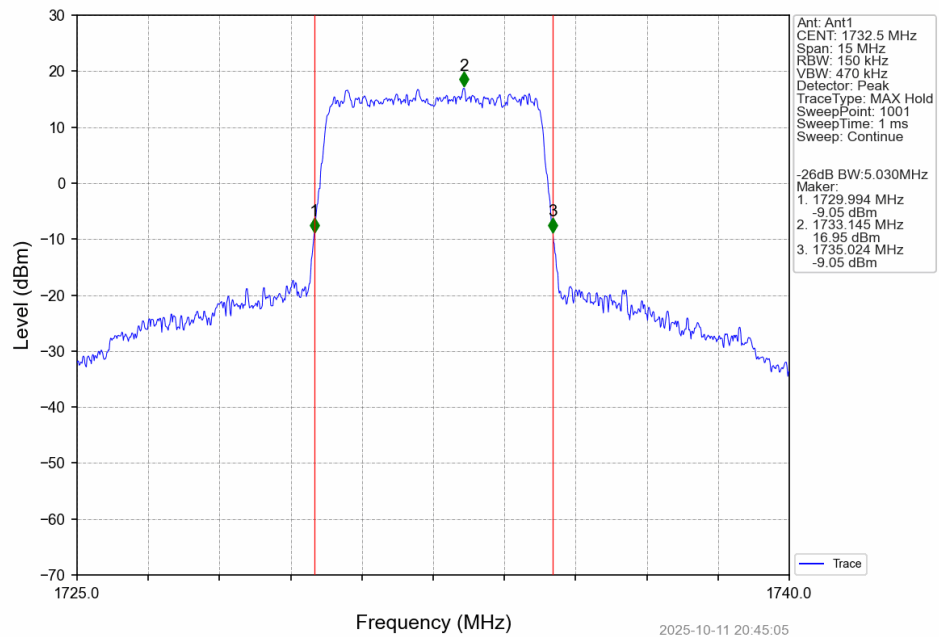
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



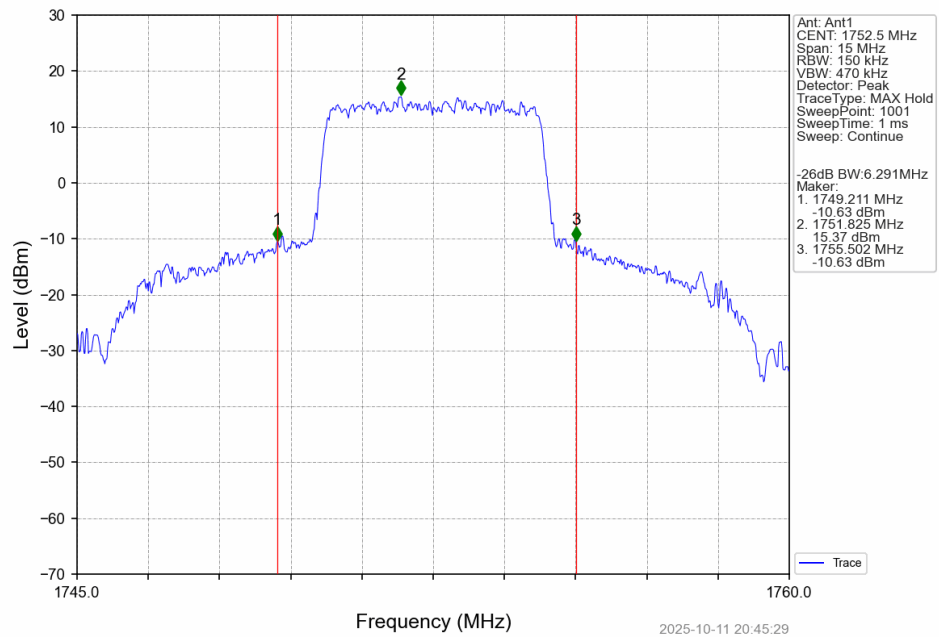
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



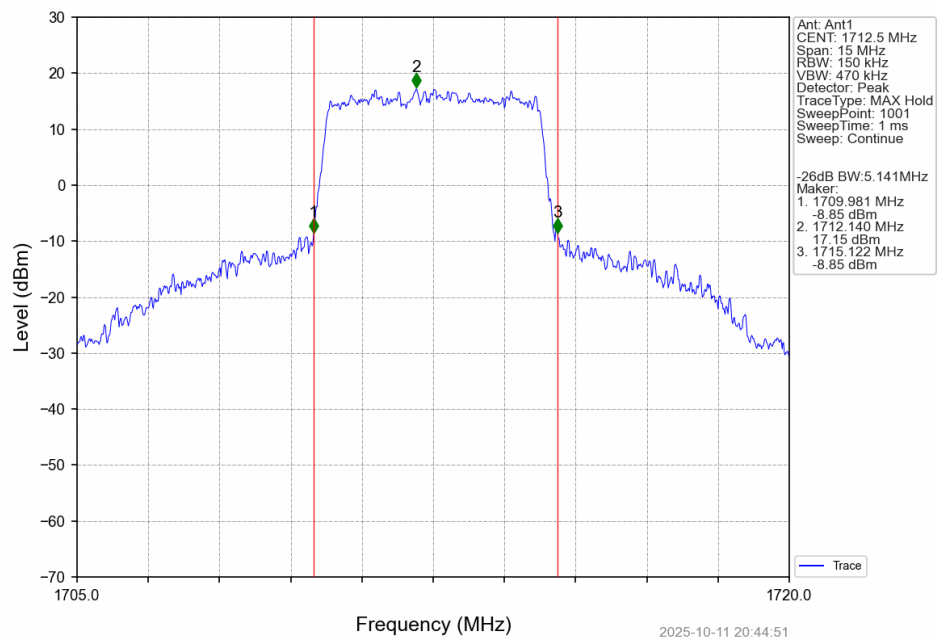
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



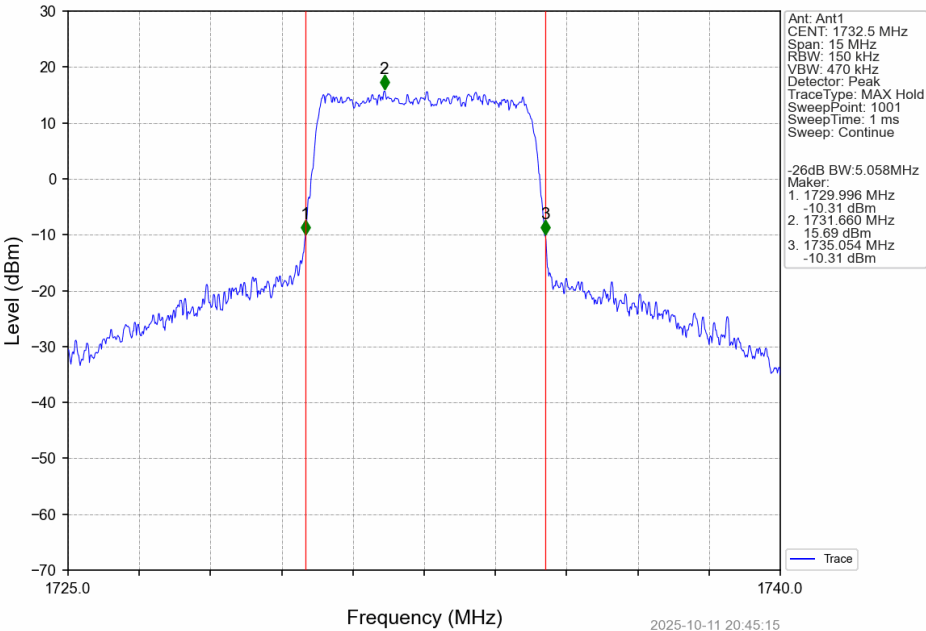
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



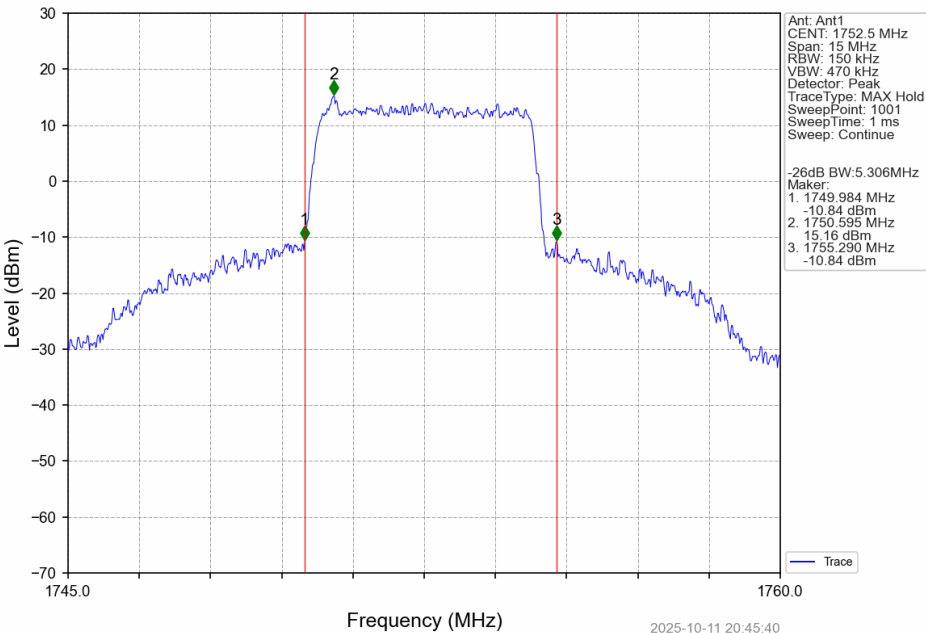
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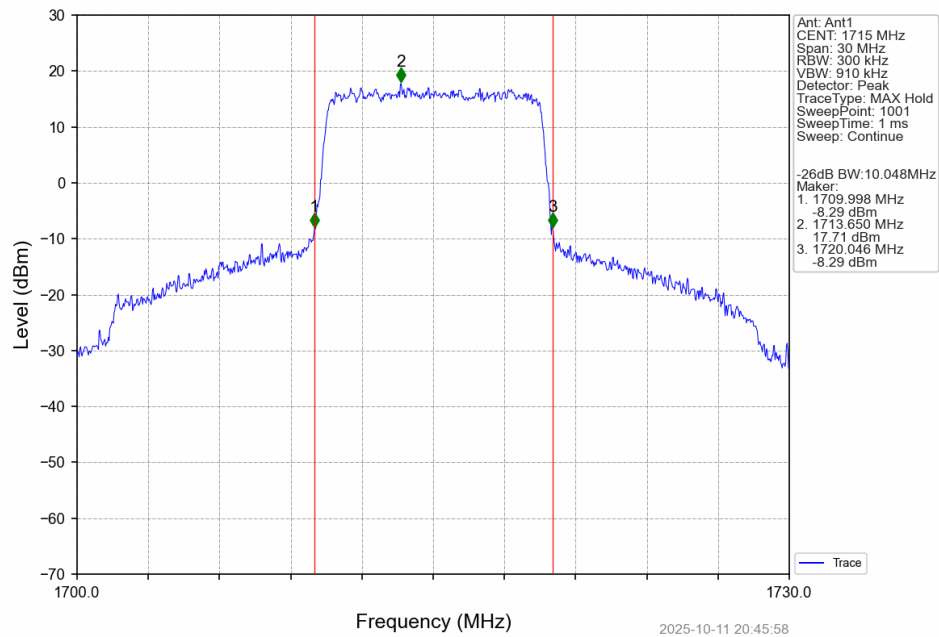
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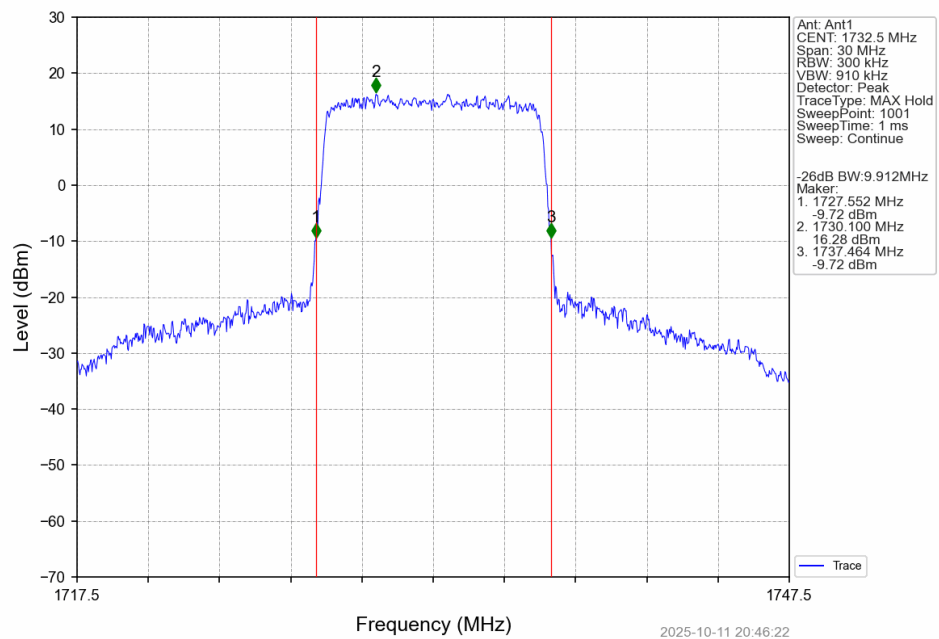
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



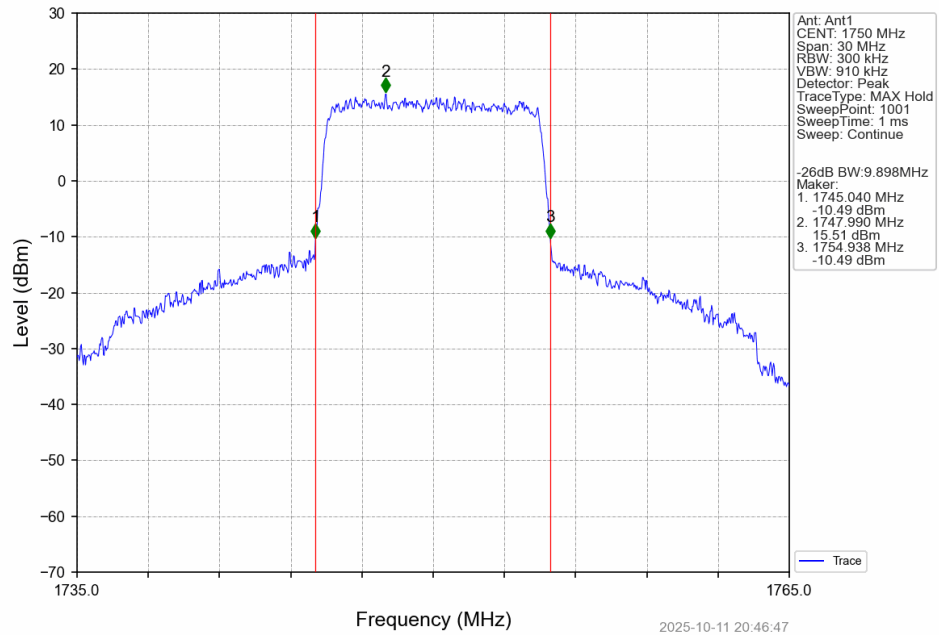
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



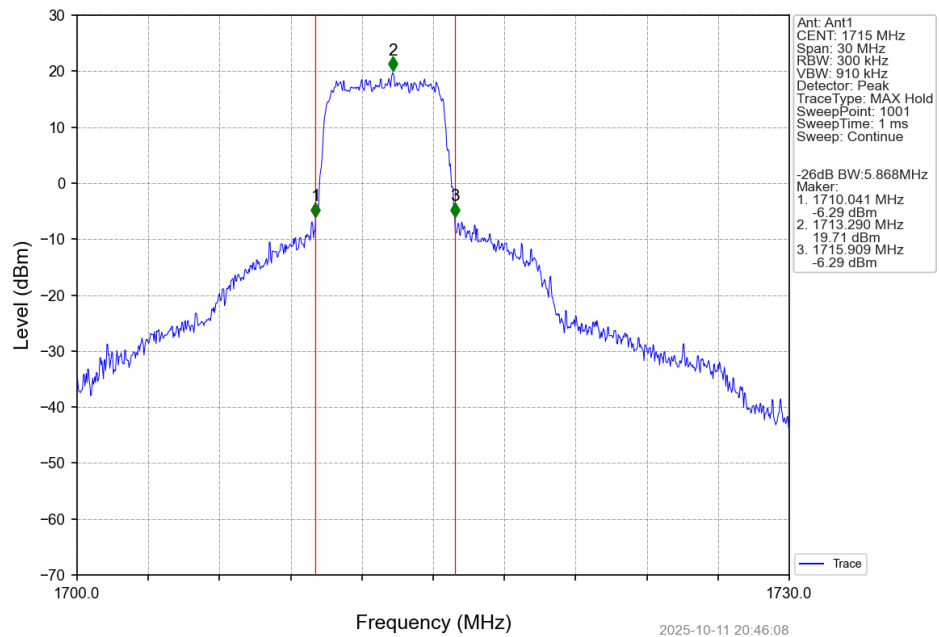
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



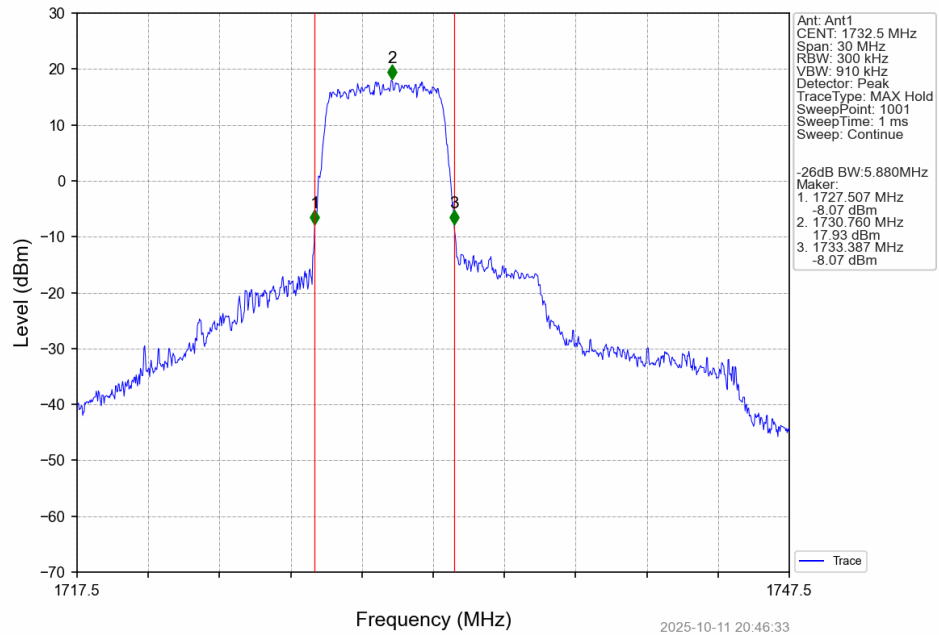
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



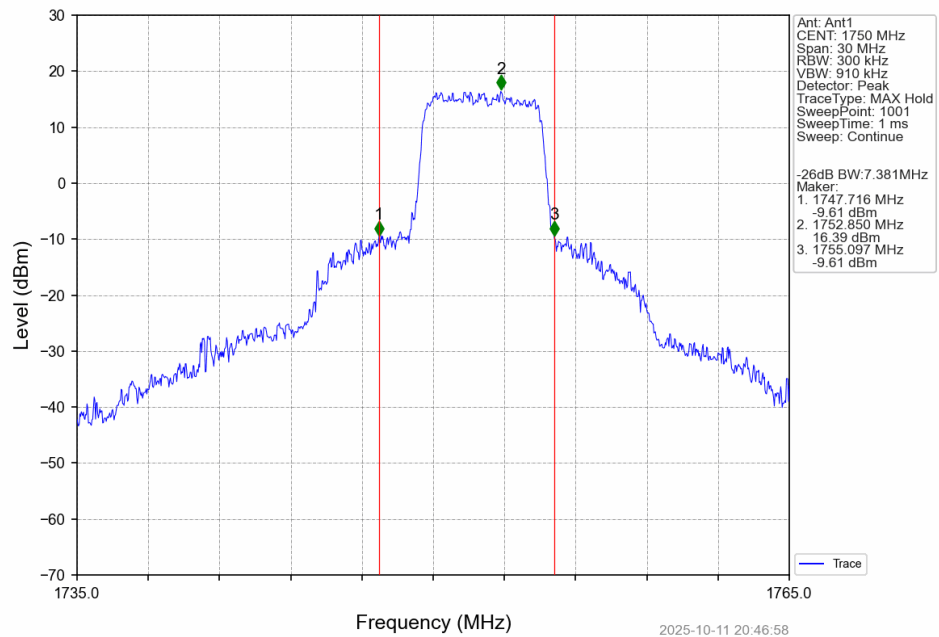
Band4_10MHz_16QAM_LCH_1715MHz_RB_27_0_NTNV



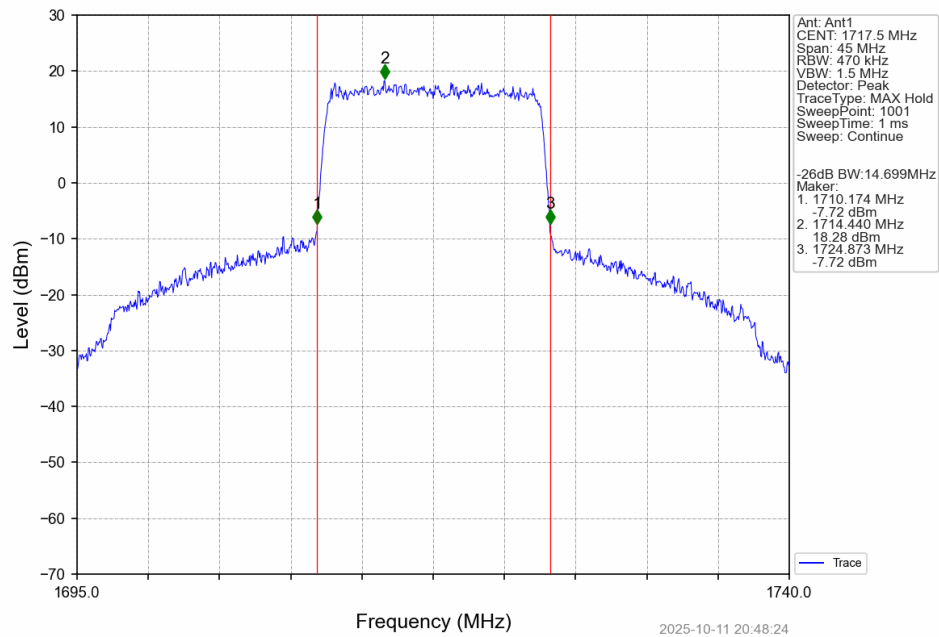
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



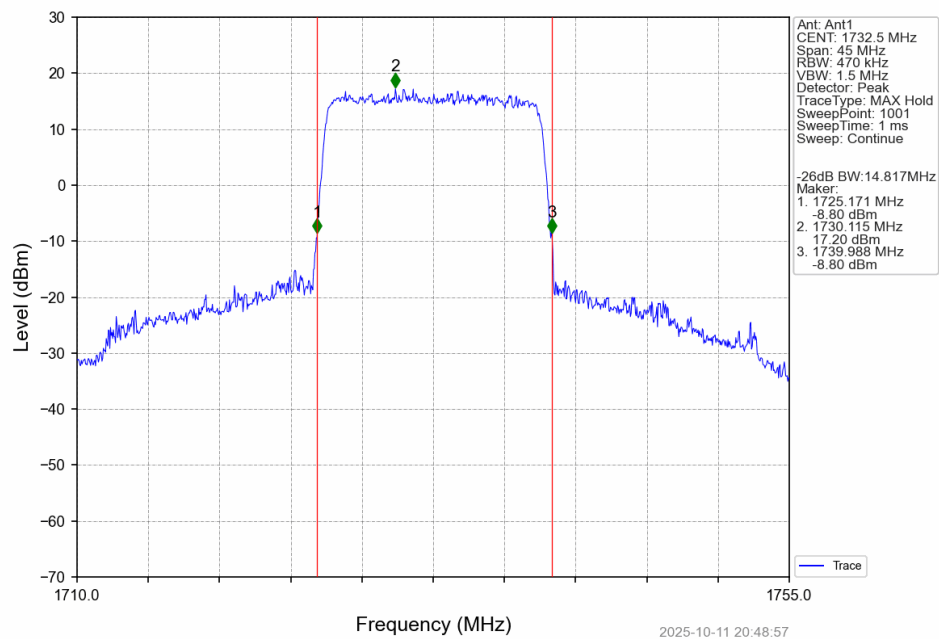
Band4_10MHz_16QAM_HCH_1750MHz_RB_27_23_NTNV



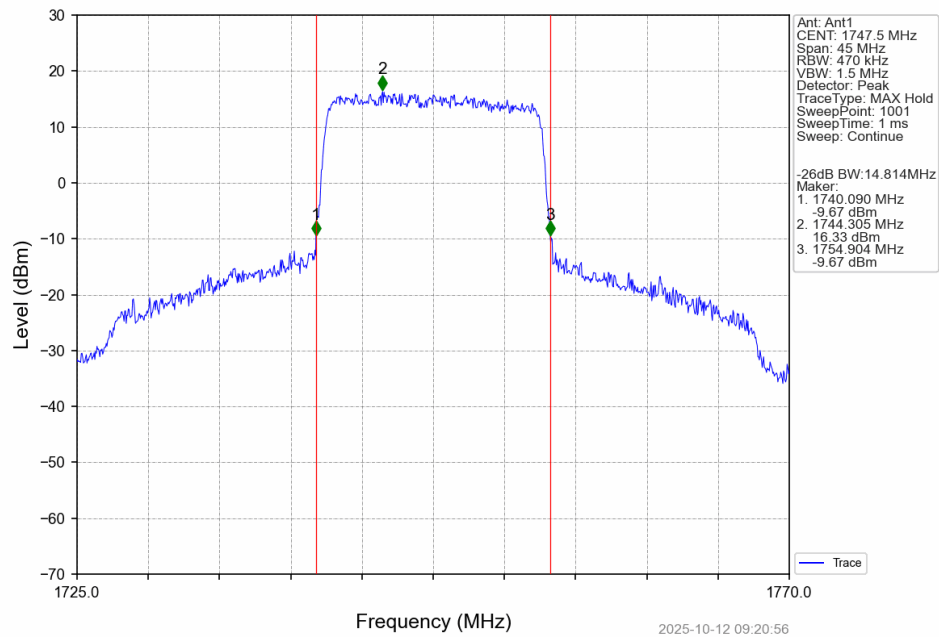
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



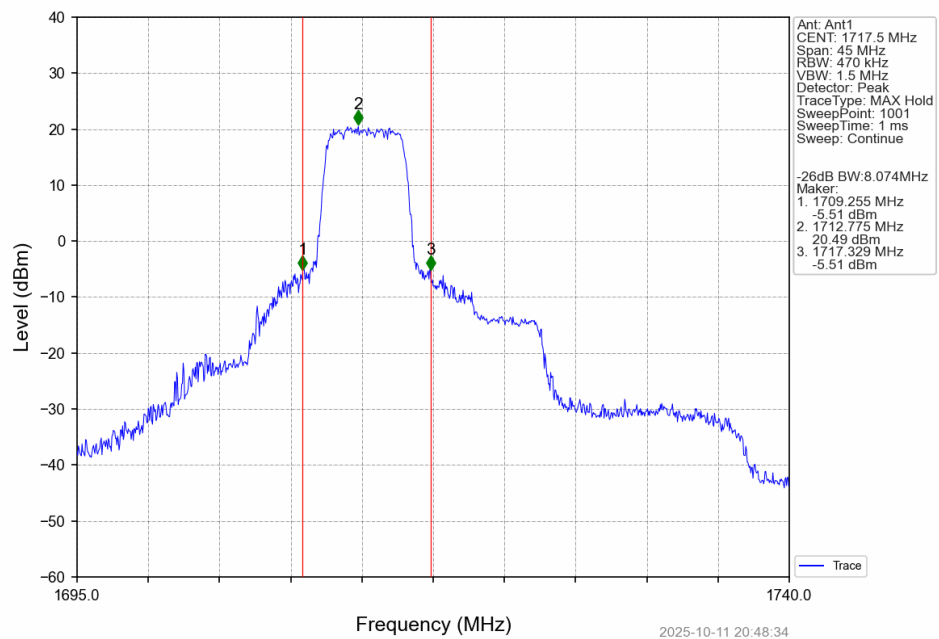
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



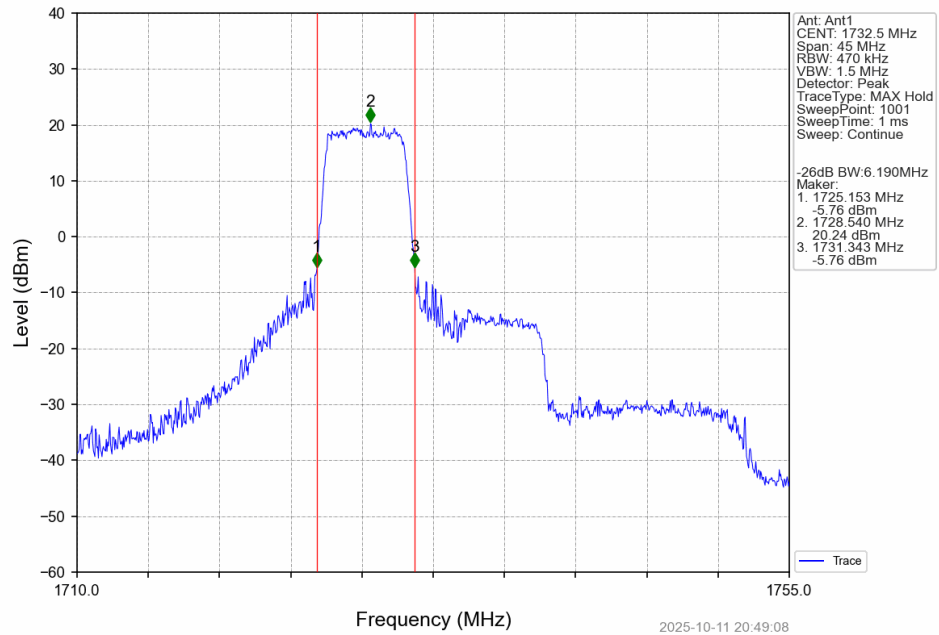
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



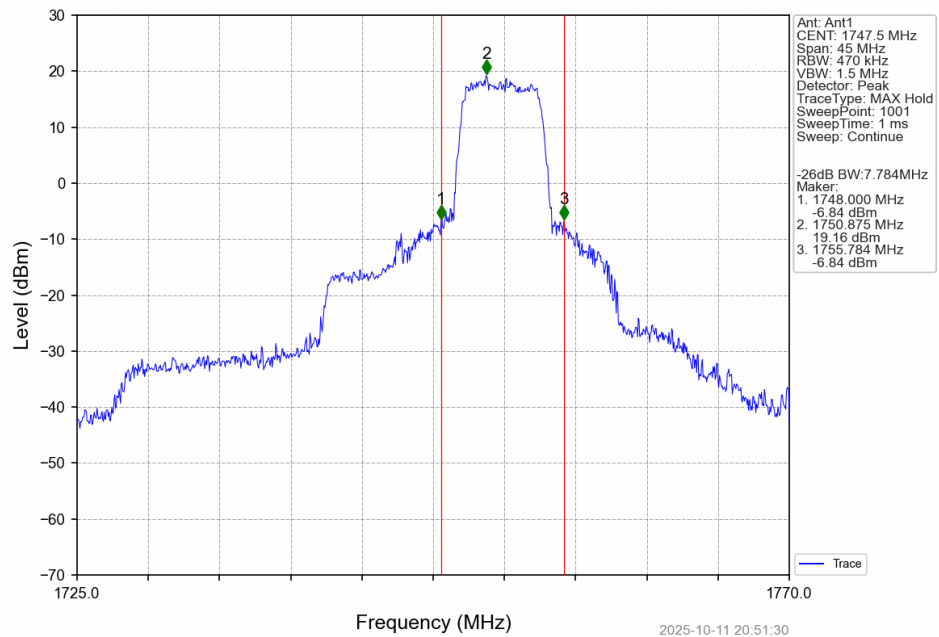
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_27_0_NTNV



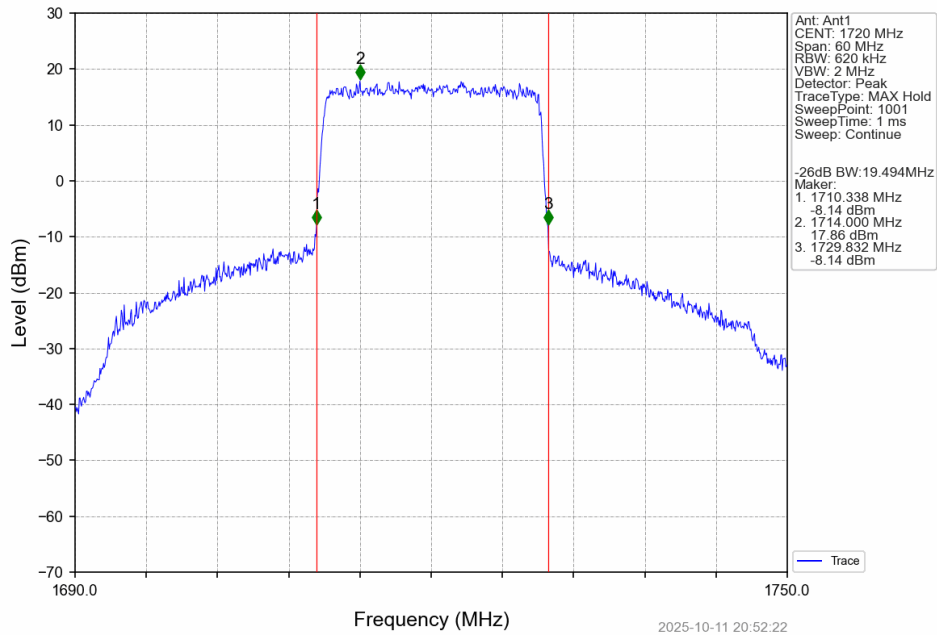
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



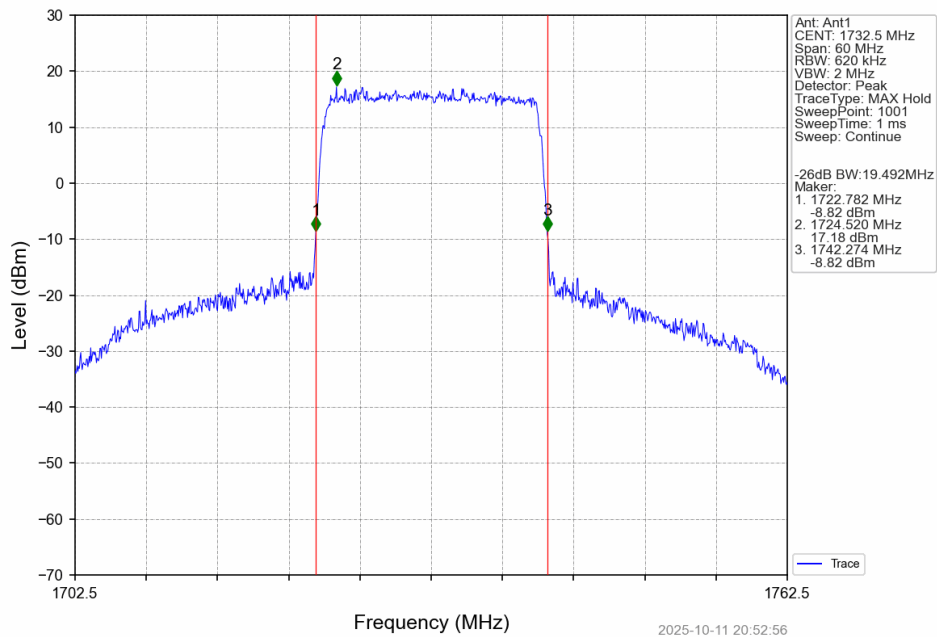
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_27_48_NTNV



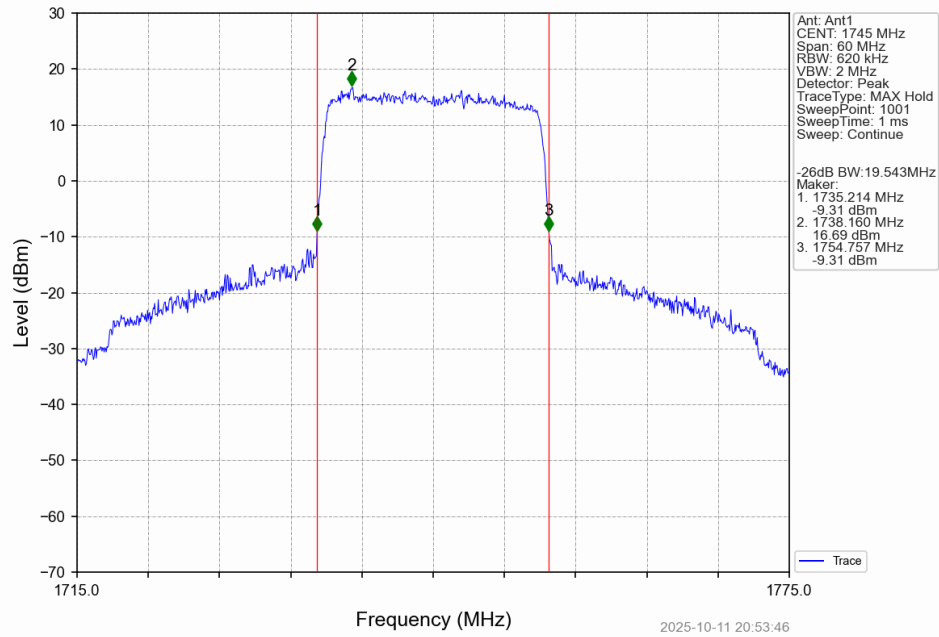
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



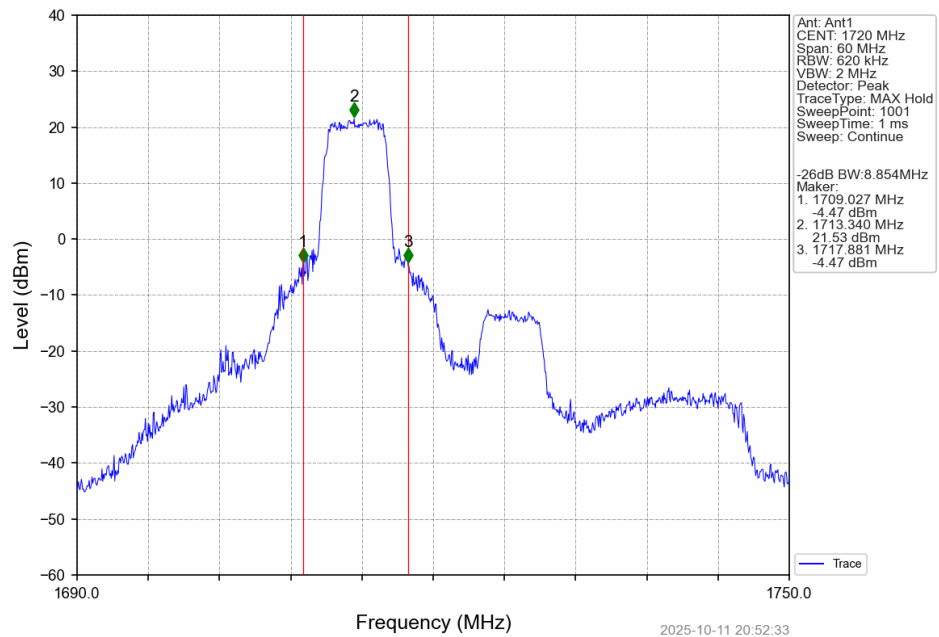
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



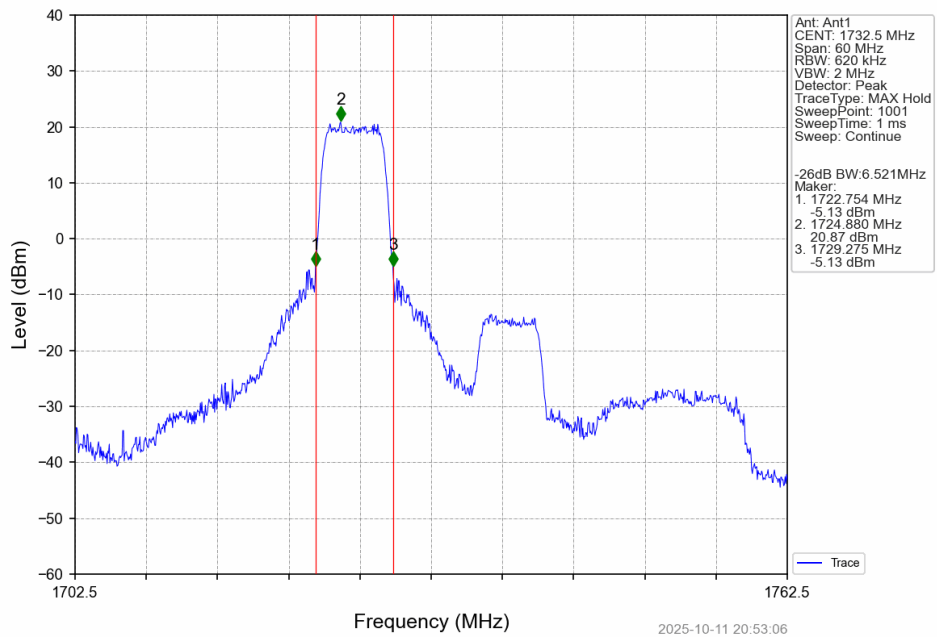
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



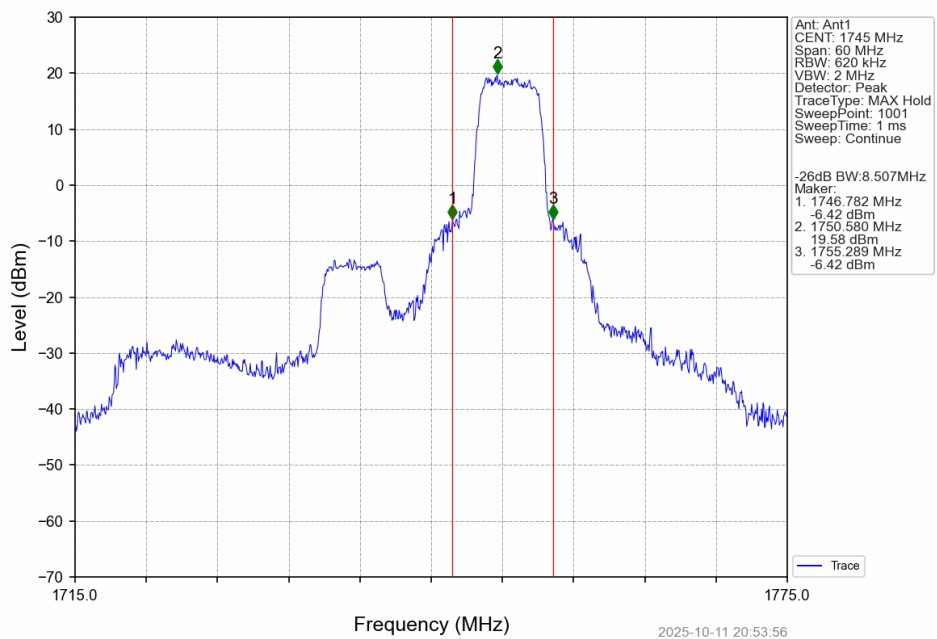
Band4_20MHz_16QAM_LCH_1720MHz_RB_27_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_27_73_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	3.22	<=13	Pass
	1732.5	6	0	4.67	<=13	Pass
	1754.3	6	0	2.69	<=13	Pass
16QAM	1710.7	6	0	4.16	<=13	Pass
	1732.5	6	0	5.45	<=13	Pass
	1754.3	6	0	3.57	<=13	Pass

5.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	3.66	<=13	Pass
	1732.5	15	0	4.94	<=13	Pass
	1753.5	15	0	3.28	<=13	Pass
16QAM	1711.5	15	0	4.53	<=13	Pass
	1732.5	15	0	5.69	<=13	Pass
	1753.5	15	0	4.08	<=13	Pass

5.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	4.45	<=13	Pass
	1732.5	25	0	5.25	<=13	Pass
	1752.5	25	0	4.27	<=13	Pass
16QAM	1712.5	25	0	5.14	<=13	Pass
	1732.5	25	0	5.88	<=13	Pass
	1752.5	25	0	4.95	<=13	Pass

5.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	4.56	<=13	Pass
	1732.5	50	0	5.22	<=13	Pass
	1750	50	0	4.62	<=13	Pass
16QAM	1715	27	0	4.75	<=13	Pass
	1732.5	27	0	5.78	<=13	Pass

	1750	27	23	4.46	<=13	Pass
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5.1.5 B4_15MHz

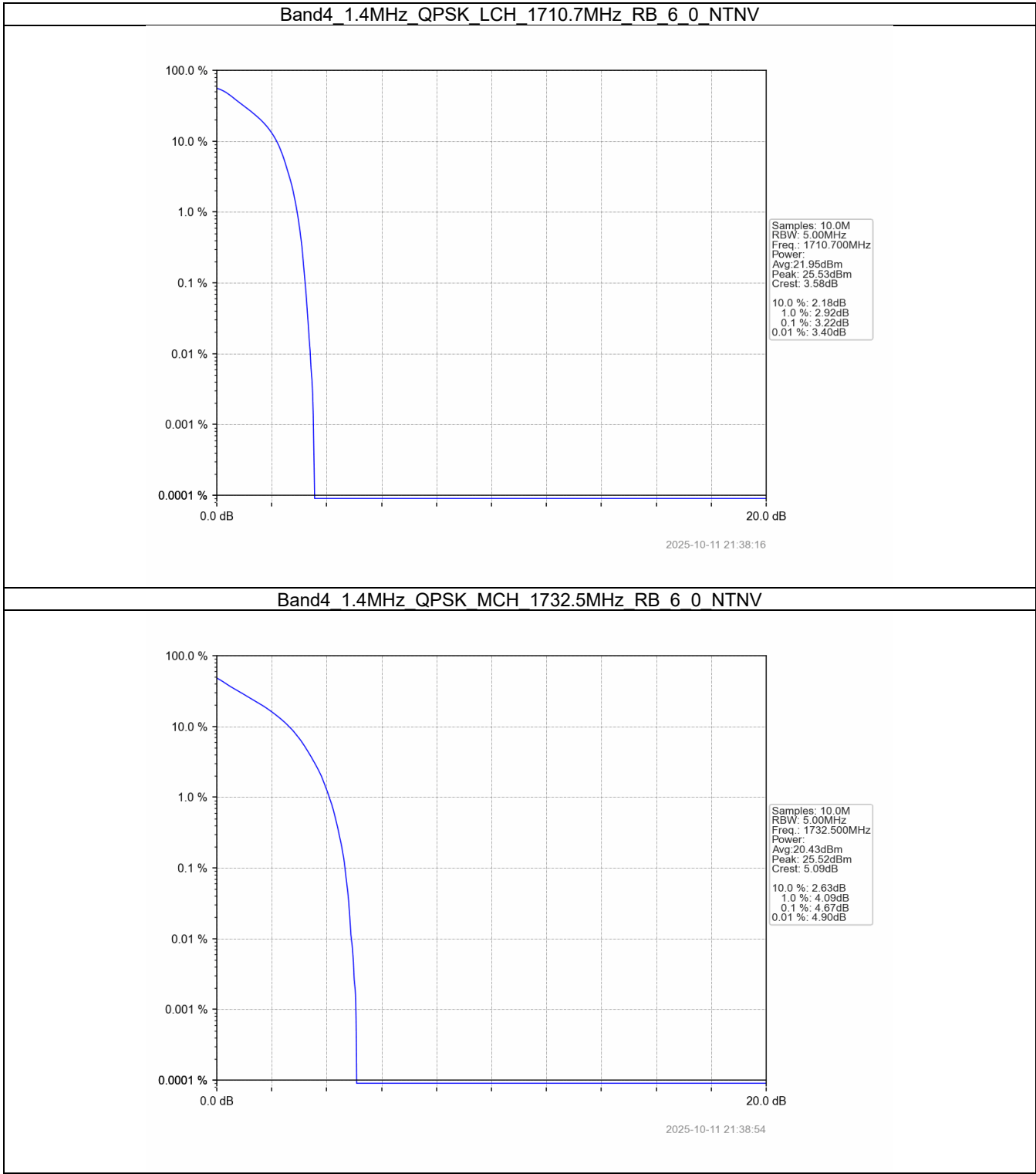
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	4.91	<=13	Pass
	1732.5	75	0	5.42	<=13	Pass
	1747.5	75	0	4.97	<=13	Pass
16QAM	1717.5	27	0	4.63	<=13	Pass
	1732.5	27	0	5.65	<=13	Pass
	1747.5	27	48	4.37	<=13	Pass

5.1.6 B4_20MHz

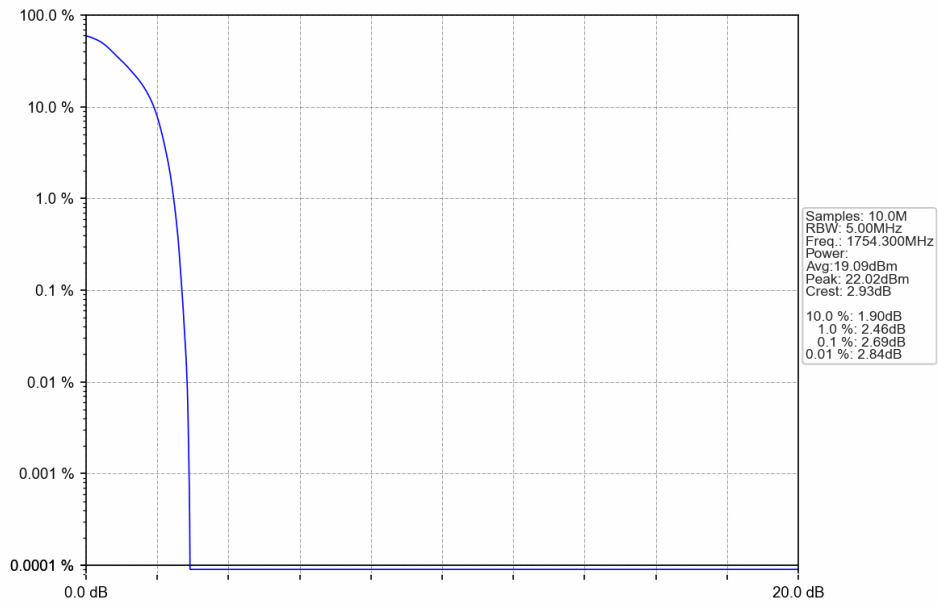
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	4.79	<=13	Pass
	1732.5	100	0	5.10	<=13	Pass
	1745	100	0	4.79	<=13	Pass
16QAM	1720	27	0	4.65	<=13	Pass
	1732.5	27	0	5.68	<=13	Pass
	1745	27	73	4.48	<=13	Pass

5.2 Test Graph

5.2.1 B4_1.4MHz

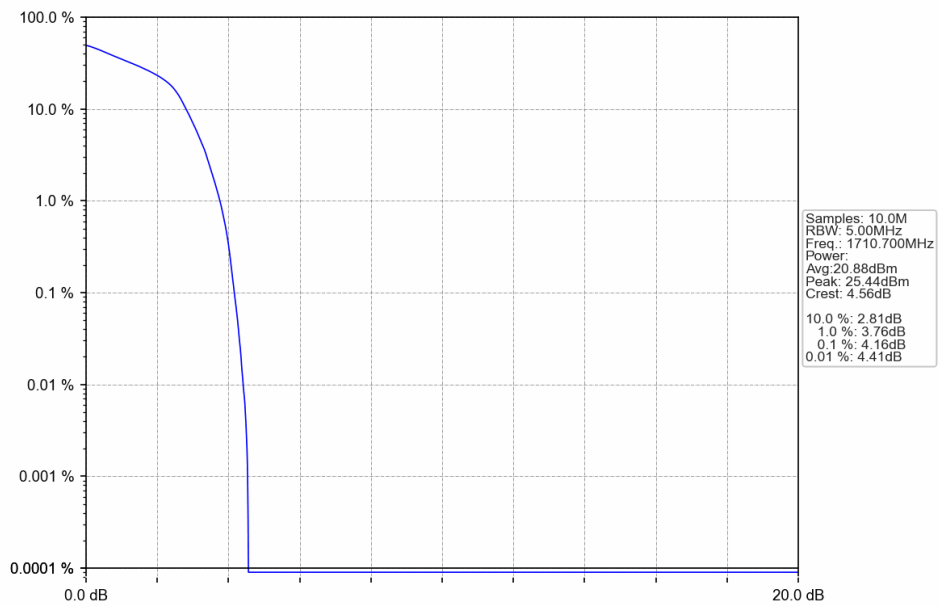


Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



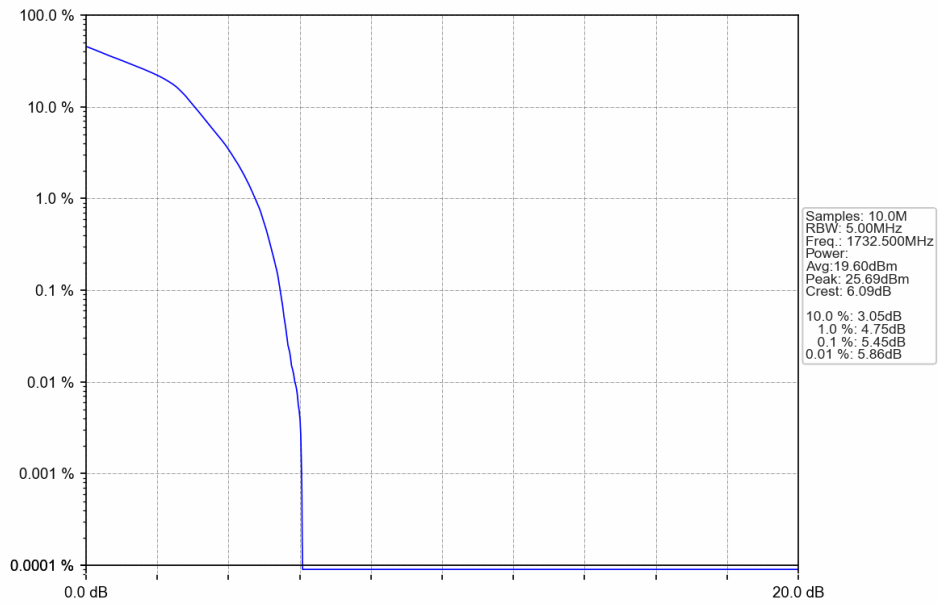
2025-10-11 21:39:31

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



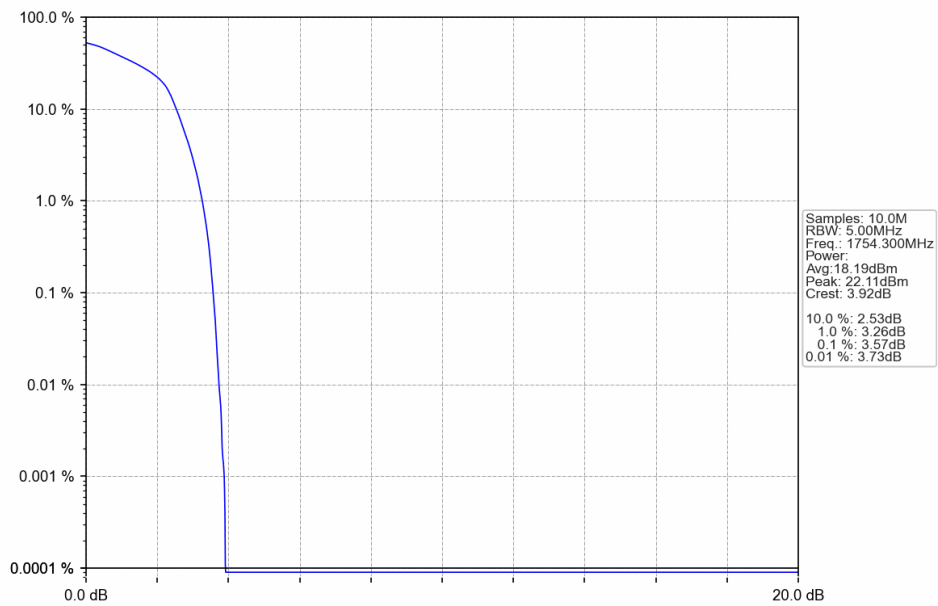
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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



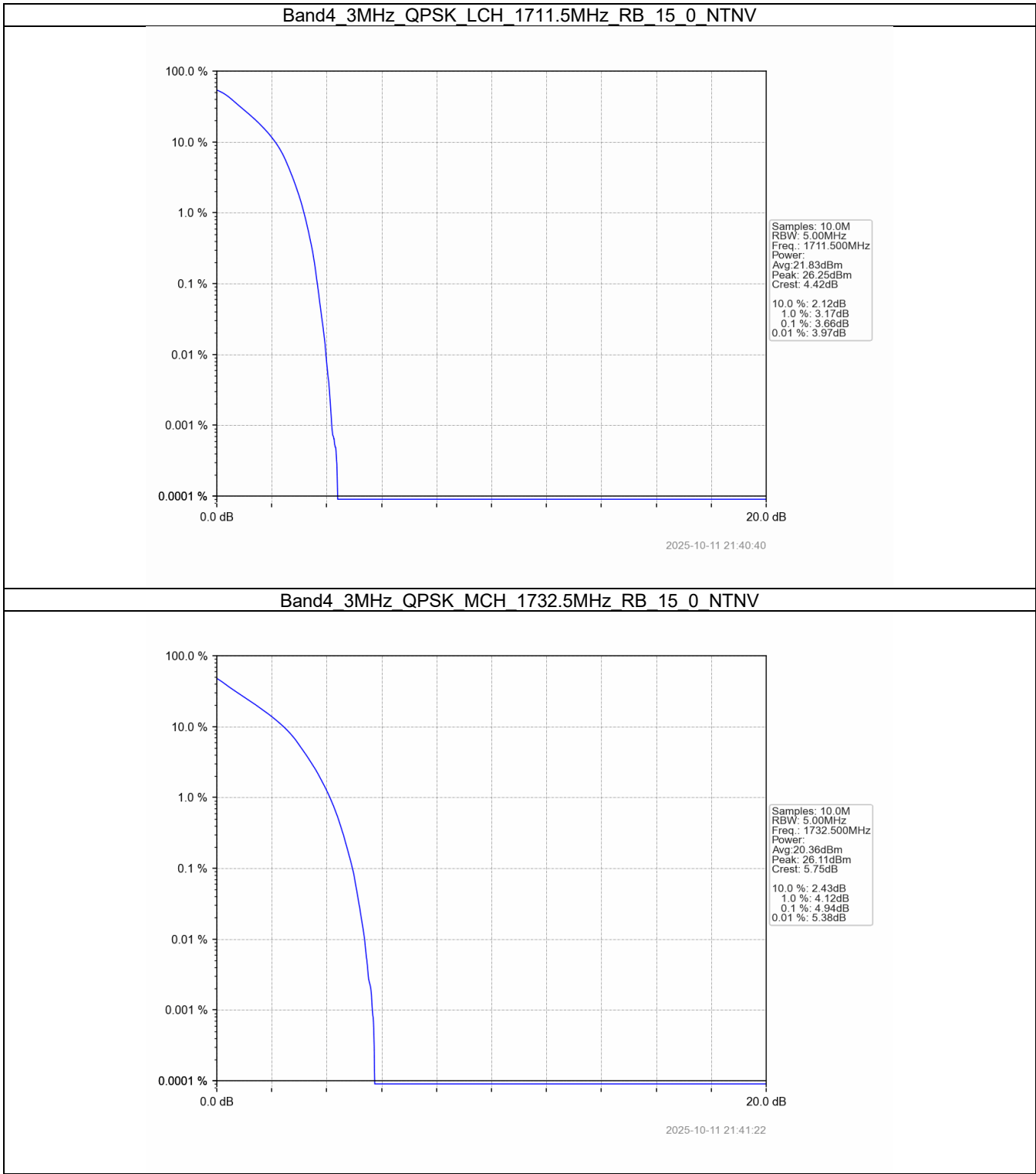
2025-10-11 21:39:15

Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV

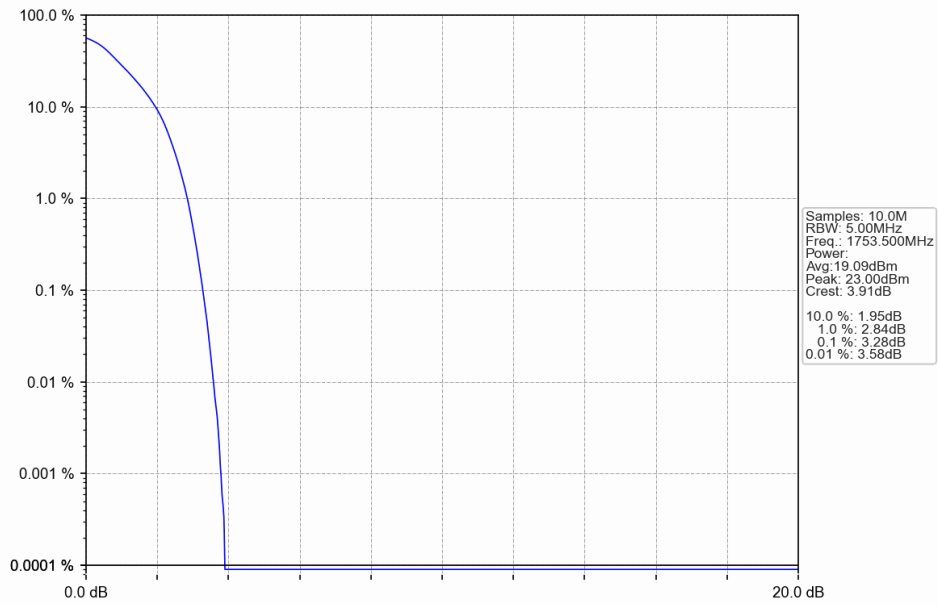


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5.2.2 B4_3MHz

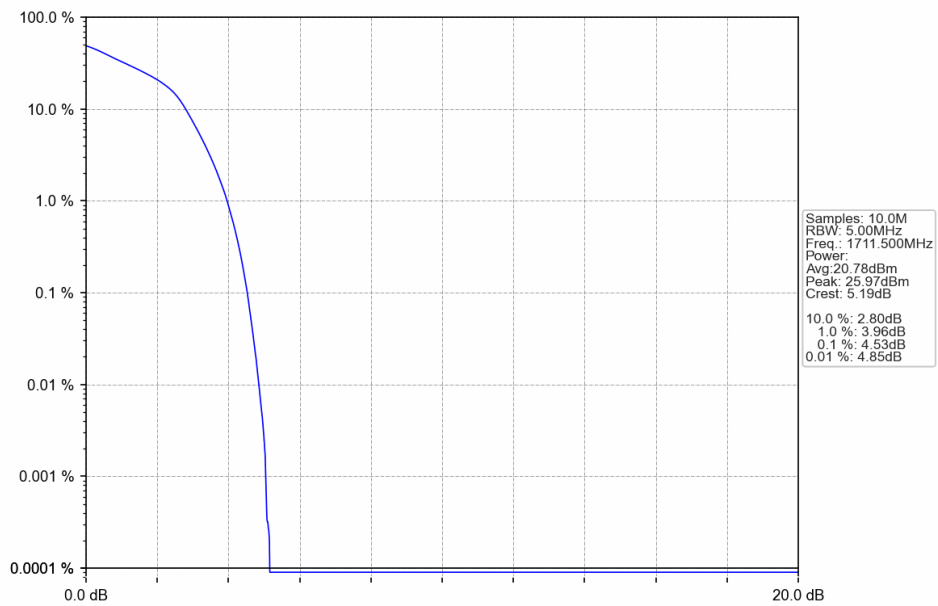


Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



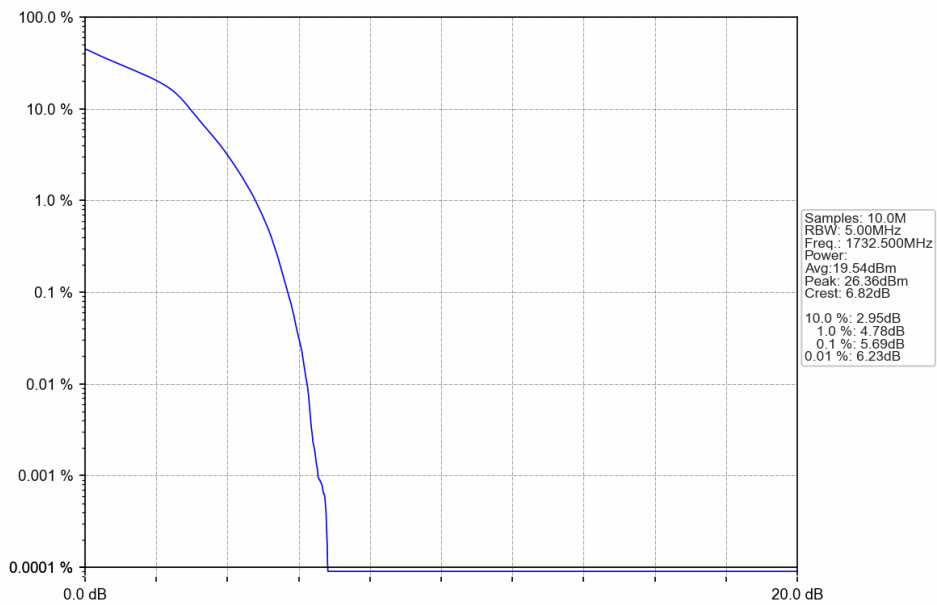
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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



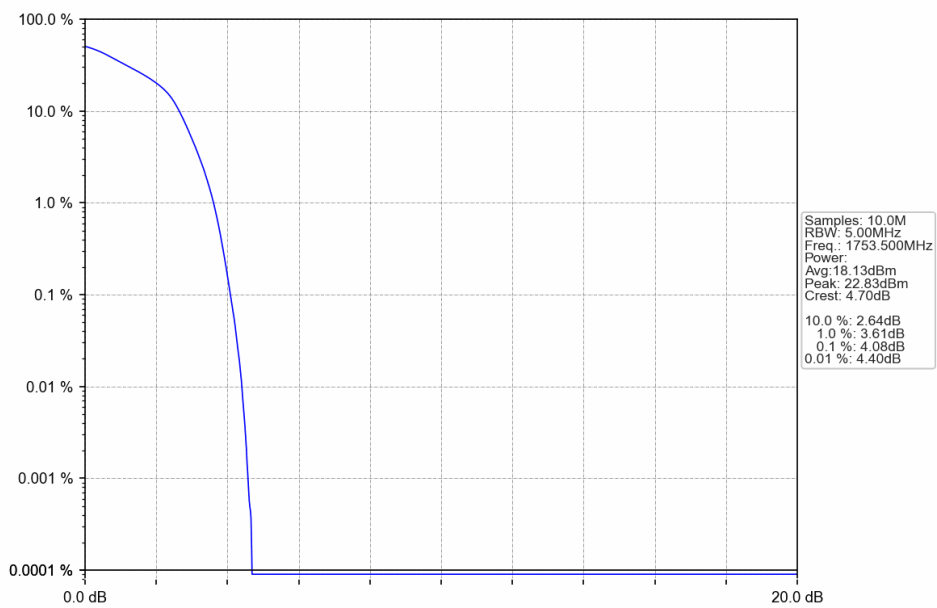
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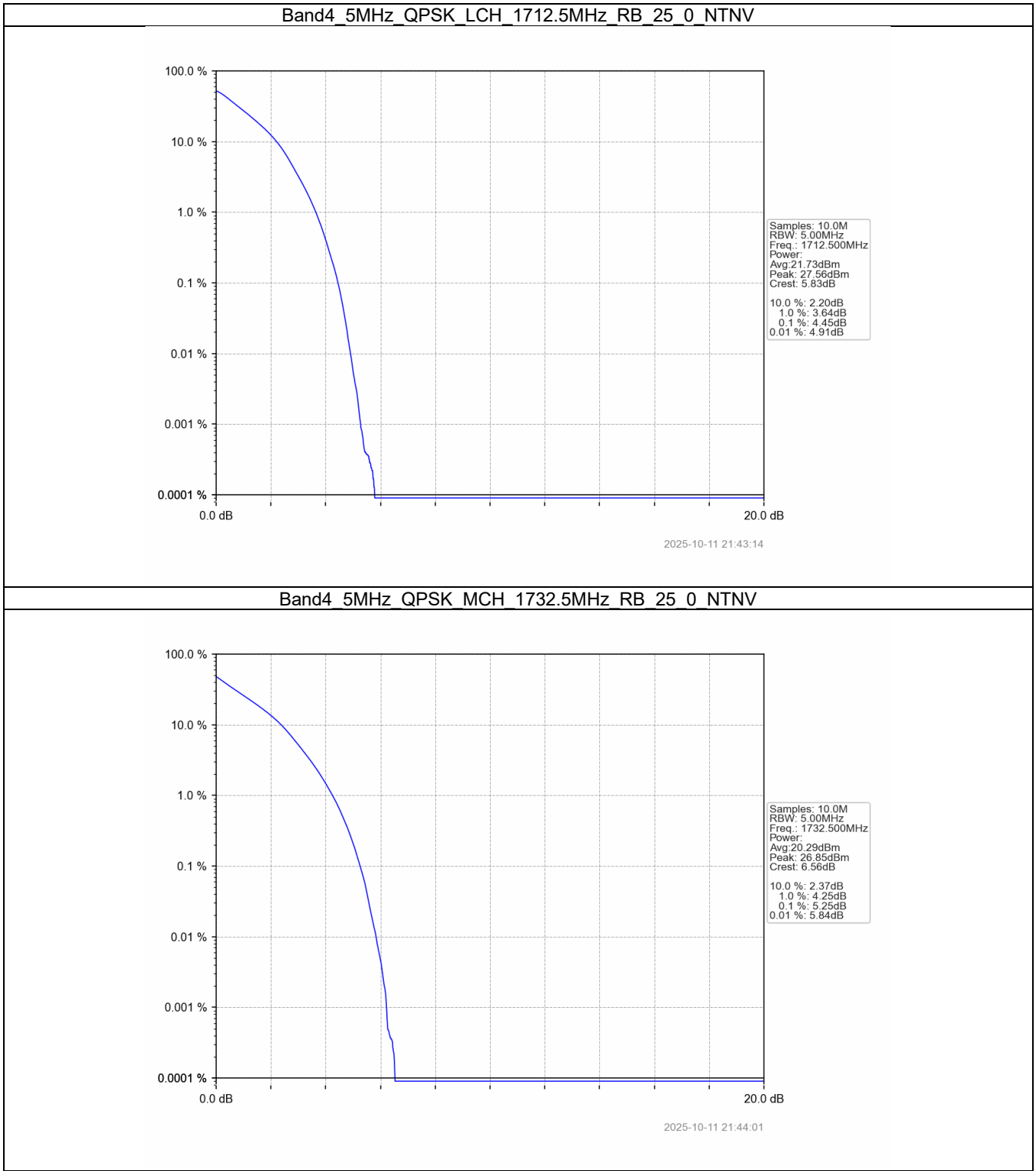
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Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV

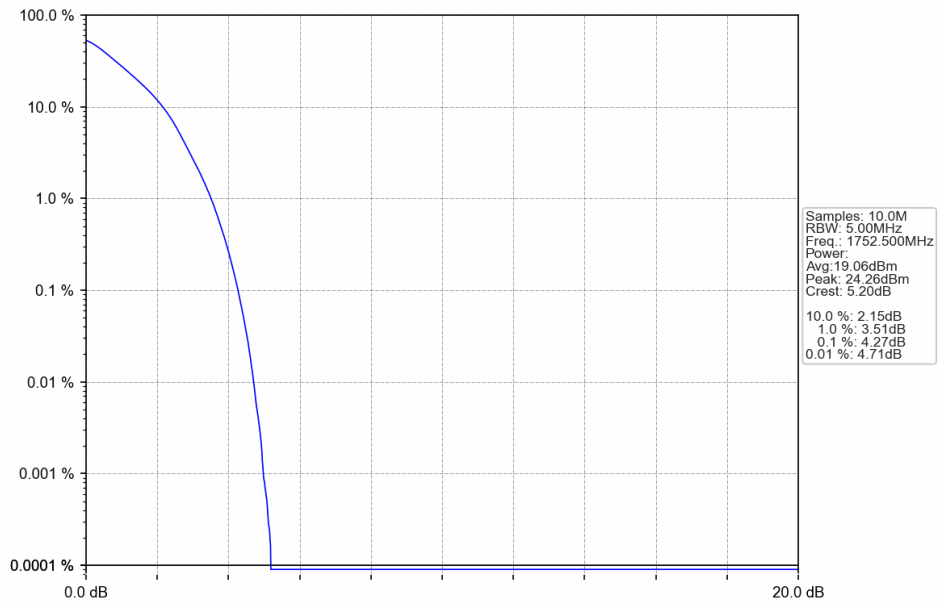


2025-10-11 21:42:20

5.2.3 B4_5MHz

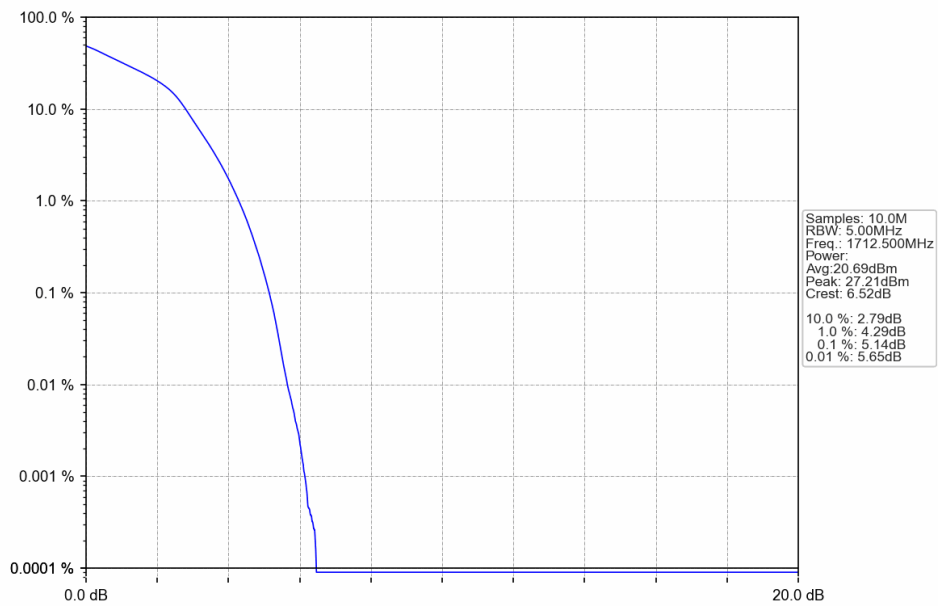


Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



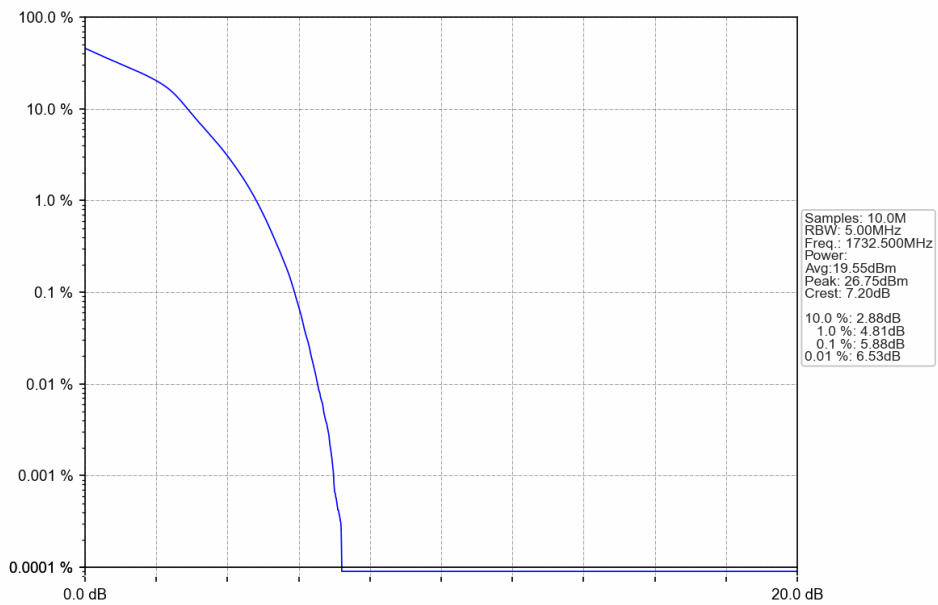
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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



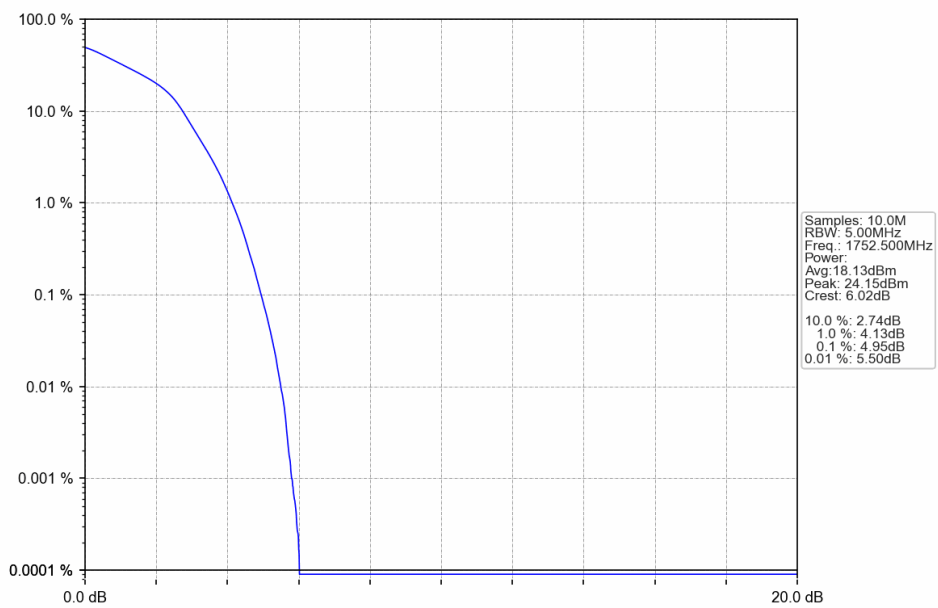
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Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



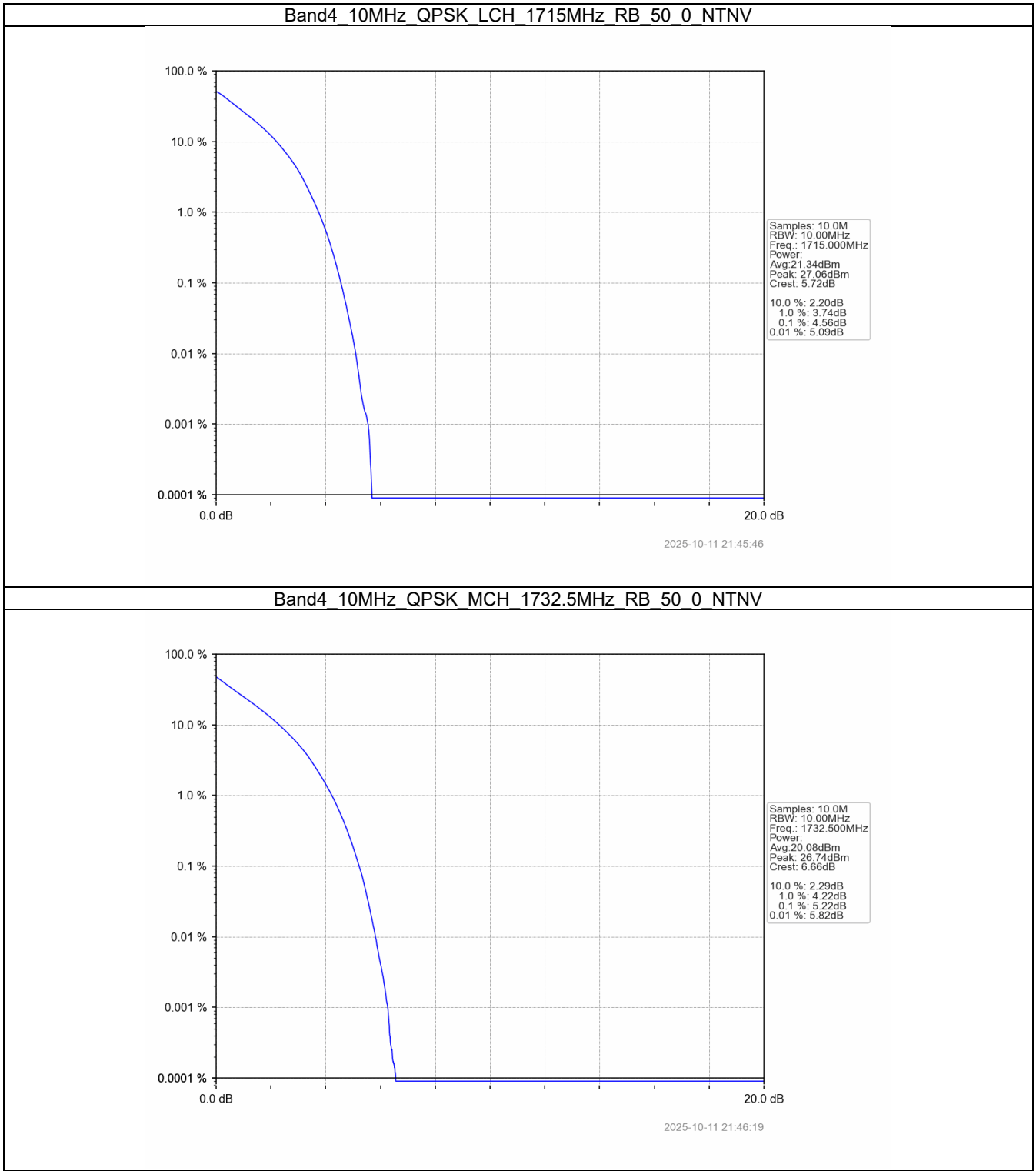
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Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

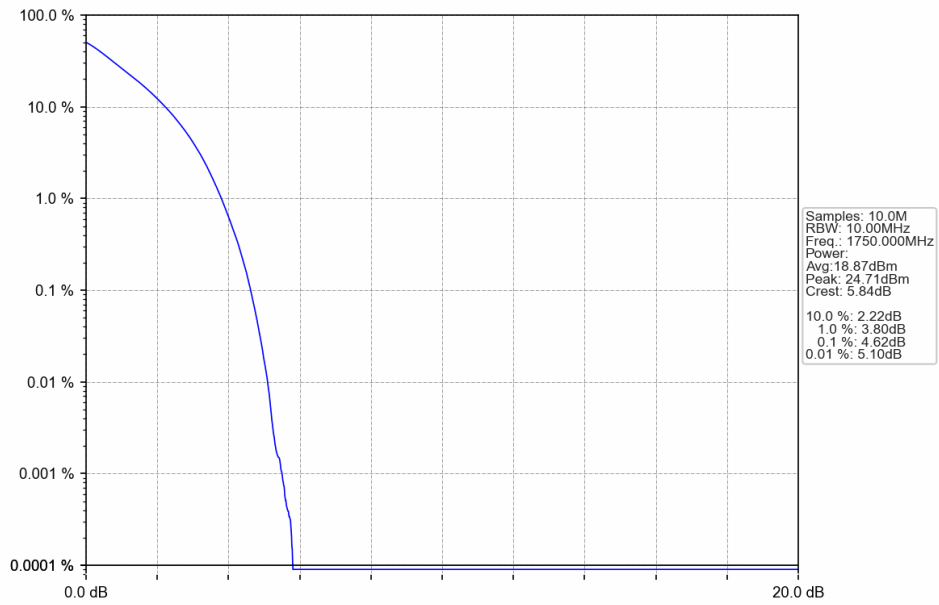


2025-10-11 21:45:08

5.2.4 B4_10MHz

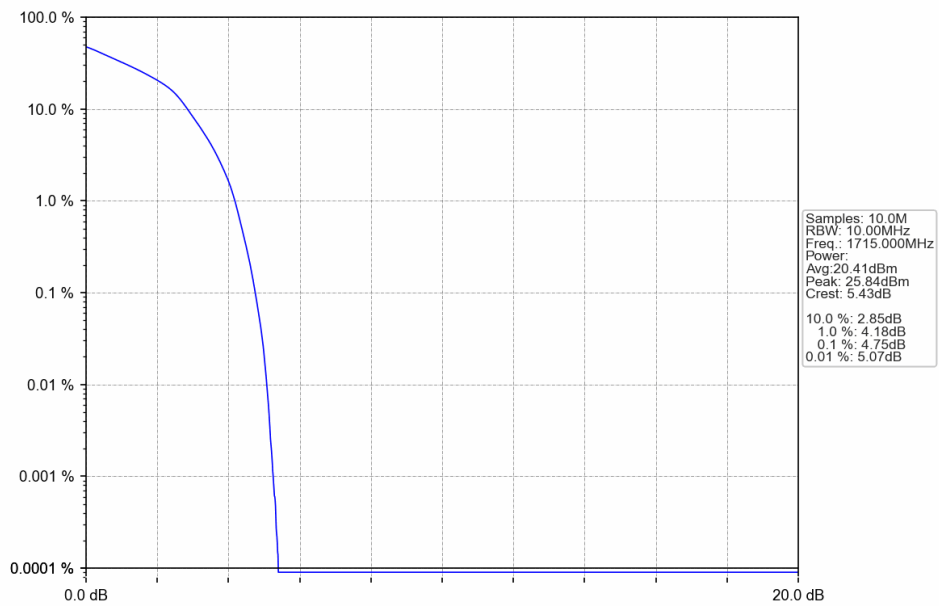


Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



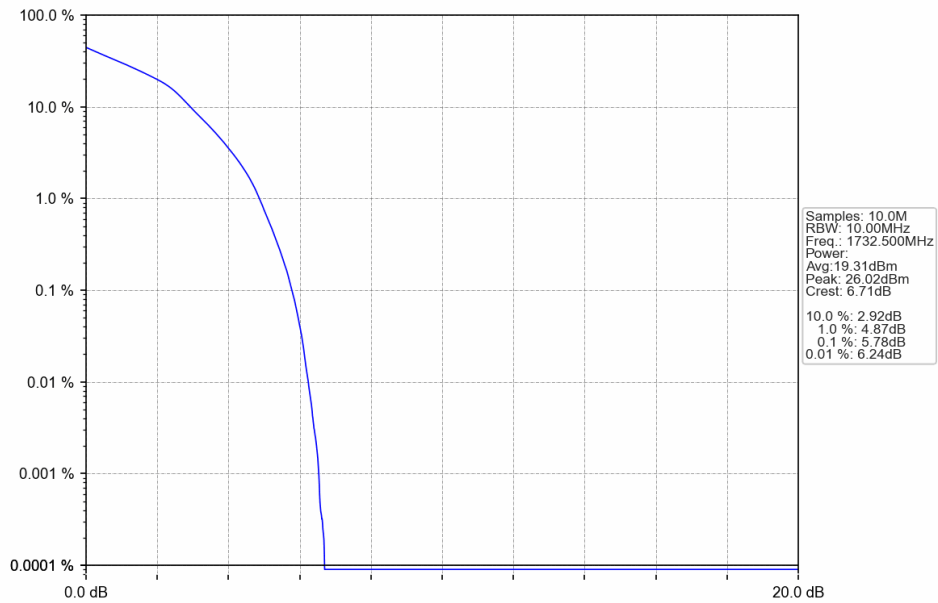
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Band4_10MHz_16QAM_LCH_1715MHz_RB_27_0_NTNV



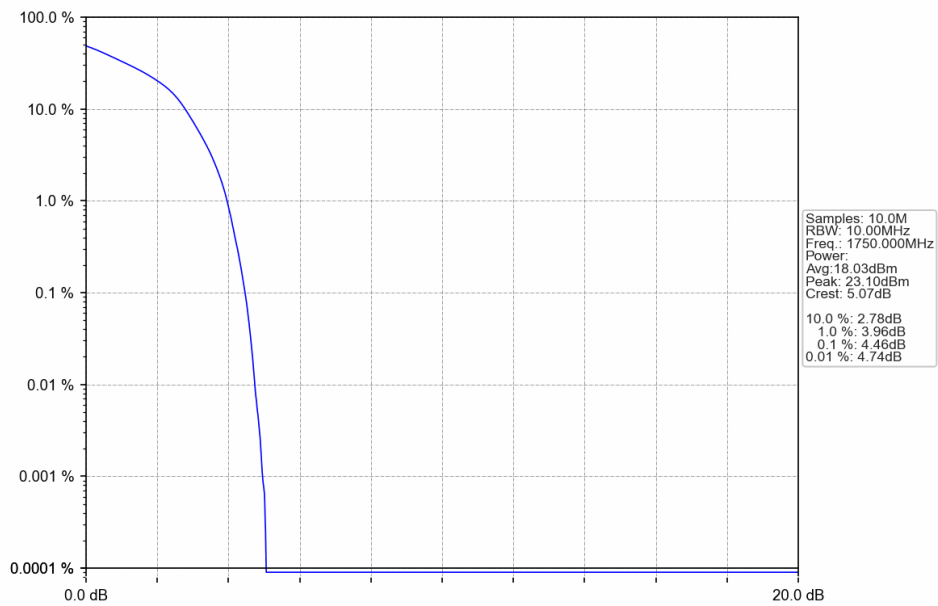
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Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



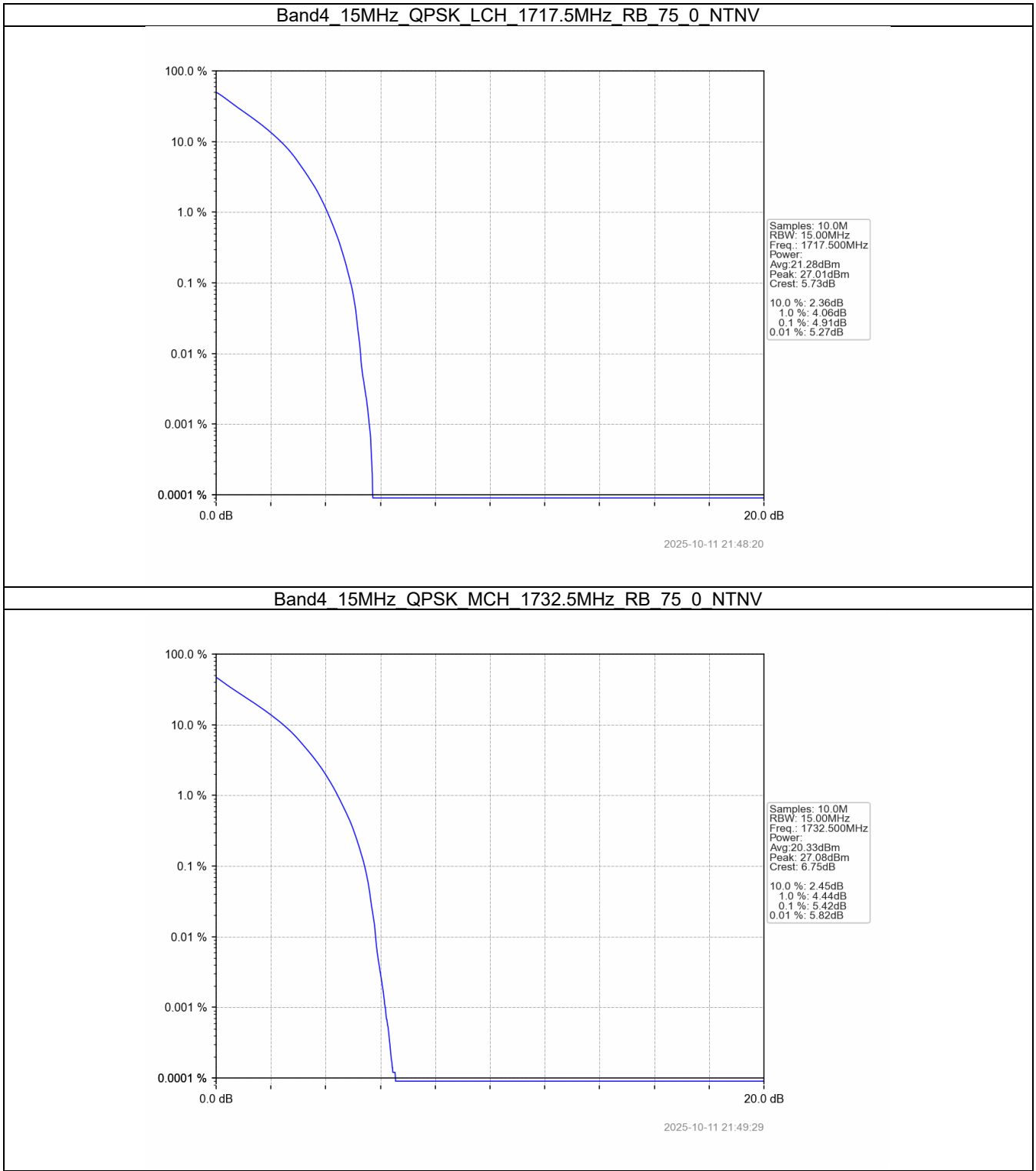
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Band4_10MHz_16QAM_HCH_1750MHz_RB_27_23_NTNV

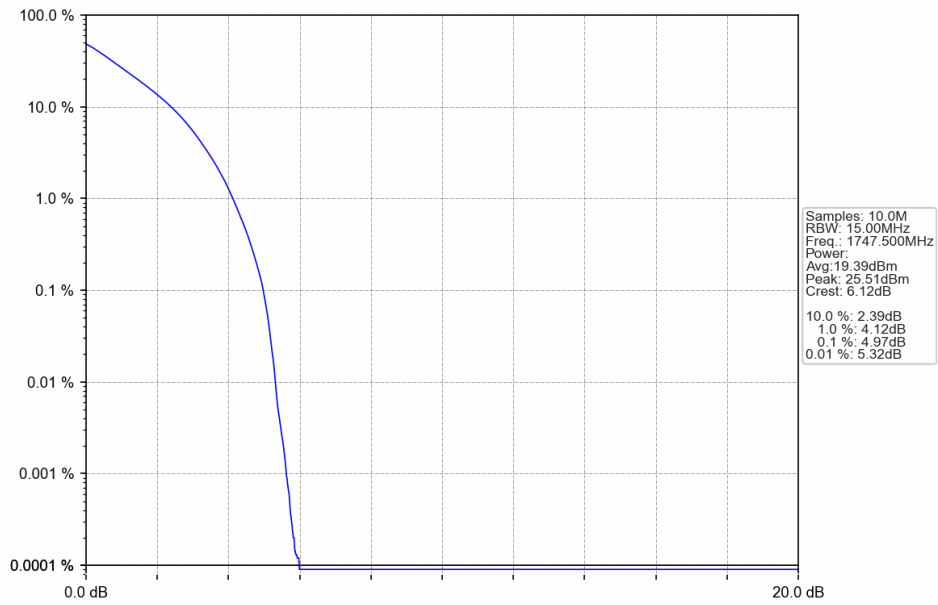


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5.2.5 B4_15MHz

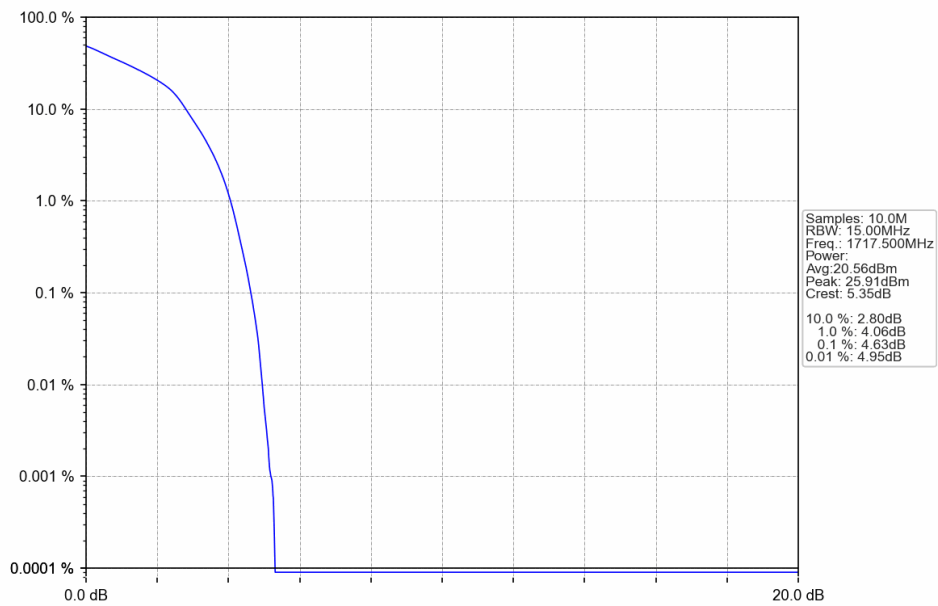


Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



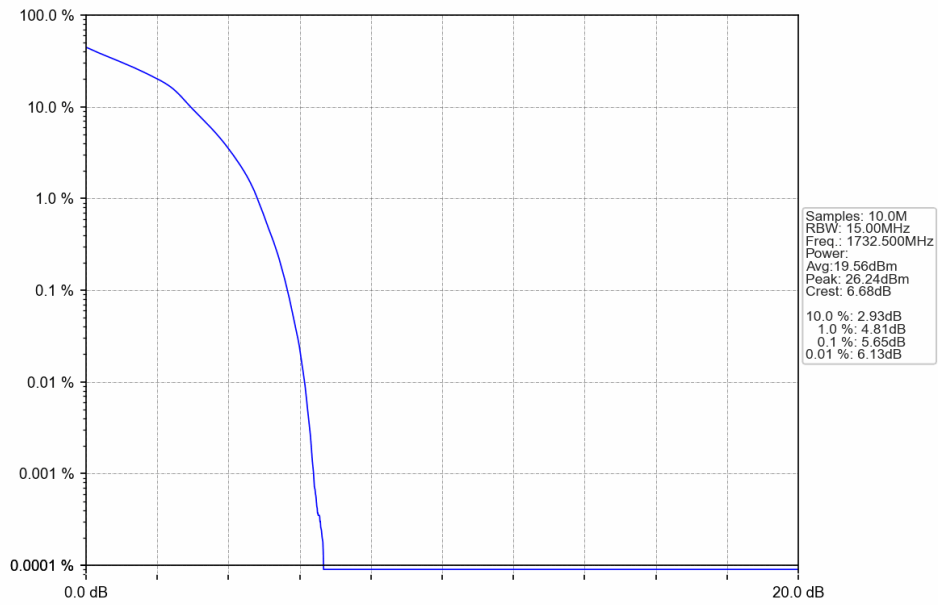
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Band4_15MHz_16QAM_LCH_1717.5MHz_RB_27_0_NTNV



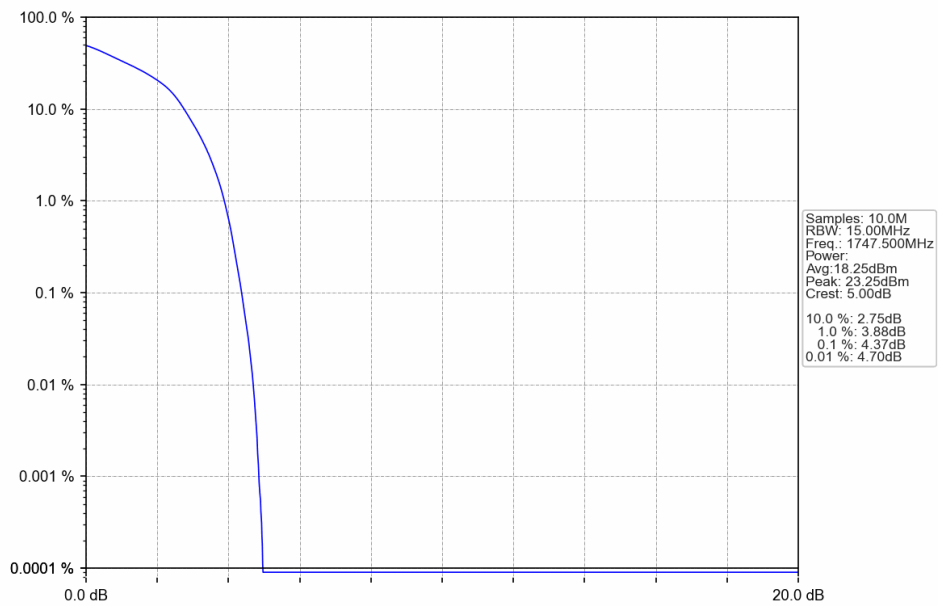
2025-10-11 21:48:32

Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



2025-10-11 21:49:43

Band4_15MHz_16QAM_HCH_1747.5MHz_RB_27_48_NTNV



2025-10-11 21:50:37