1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	20.32	2.08	22.40	<=30	Pass
			2	20.50	2.08	22.58	<=30	Pass
			5	20.54	2.08	22.62	<=30	Pass
		3	0	20.43	2.08	22.51	<=30	Pass
			2	20.43	2.08	22.51	<=30	Pass
			3	20.40	2.08	22.48	<=30	Pass
		6	0	19.50	2.08	21.58	<=30	Pass
	1732.5	1	0	20.43	2.08	22.51	<=30	Pass
			2	20.68	2.08	22.76	<=30	Pass
			5	20.68	2.08	22.76	<=30	Pass
		3	0	20.60	2.08	22.68	<=30	Pass
			2	20.53	2.08	22.61	<=30	Pass
			3	20.60	2.08	22.68	<=30	Pass
		6	0	19.59	2.08	21.67	<=30	Pass
	1754.3	1	0	20.76	2.08	22.84	<=30	Pass
			2	20.84	2.08	22.92	<=30	Pass
			5	20.79	2.08	22.87	<=30	Pass
		3	0	20.71	2.08	22.79	<=30	Pass
			2	20.73	2.08	22.81	<=30	Pass
			3	20.71	2.08	22.79	<=30	Pass
		6	0	19.66	2.08	21.74	<=30	Pass
16QAM	1710.7	1	0	19.55	2.08	21.63	<=30	Pass
			2	19.55	2.08	21.63	<=30	Pass
			5	19.48	2.08	21.56	<=30	Pass
		3	0	19.42	2.08	21.50	<=30	Pass
			2	19.47	2.08	21.55	<=30	Pass
			3	19.40	2.08	21.48	<=30	Pass
		6	0	18.63	2.08	20.71	<=30	Pass
	1732.5	1	0	20.32	2.08	22.40	<=30	Pass
			2	20.32	2.08	22.40	<=30	Pass
			5	20.33	2.08	22.41	<=30	Pass
		3	0	19.76	2.08	21.84	<=30	Pass
			2	19.87	2.08	21.95	<=30	Pass
			3	19.82	2.08	21.90	<=30	Pass
		6	0	18.93	2.08	21.01	<=30	Pass
	1754.3	1	0	20.08	2.08	22.16	<=30	Pass
			2	19.96	2.08	22.04	<=30	Pass
			5	19.98	2.08	22.06	<=30	Pass
		3	0	19.52	2.08	21.60	<=30	Pass
			2	19.51	2.08	21.59	<=30	Pass
			3	19.48	2.08	21.56	<=30	Pass
		6	0	19.00	2.08	21.08	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	20.50	2.08	22.58	<=30	Pass
			7	20.50	2.08	22.58	<=30	Pass
			14	20.58	2.08	22.66	<=30	Pass
		8	0	19.45	2.08	21.53	<=30	Pass
			4	19.46	2.08	21.54	<=30	Pass
			7	19.53	2.08	21.61	<=30	Pass
		15	0	19.57	2.08	21.65	<=30	Pass
	1732.5	1	0	20.48	2.08	22.56	<=30	Pass
			7	20.54	2.08	22.62	<=30	Pass
			14	20.51	2.08	22.59	<=30	Pass
		8	0	19.62	2.08	21.70	<=30	Pass
			4	19.59	2.08	21.67	<=30	Pass
			7	19.60	2.08	21.68	<=30	Pass
		15	0	19.54	2.08	21.62	<=30	Pass
	1753.5	1	0	20.65	2.08	22.73	<=30	Pass
			7	20.71	2.08	22.79	<=30	Pass
			14	20.66	2.08	22.74	<=30	Pass
		8	0	19.73	2.08	21.81	<=30	Pass
			4	19.77	2.08	21.85	<=30	Pass
			7	19.77	2.08	21.85	<=30	Pass
		15	0	19.76	2.08	21.84	<=30	Pass
16QAM	1711.5	1	0	19.51	2.08	21.59	<=30	Pass
			7	19.57	2.08	21.65	<=30	Pass
			14	19.57	2.08	21.65	<=30	Pass
		8	0	18.87	2.08	20.95	<=30	Pass
			4	18.90	2.08	20.98	<=30	Pass
			7	18.85	2.08	20.93	<=30	Pass
		15	0	18.69	2.08	20.77	<=30	Pass
	1732.5	1	0	20.96	2.08	23.04	<=30	Pass
			7	20.99	2.08	23.07	<=30	Pass
			14	20.94	2.08	23.02	<=30	Pass
		8	0	18.87	2.08	20.95	<=30	Pass
			4	18.88	2.08	20.96	<=30	Pass
			7	18.84	2.08	20.92	<=30	Pass
		15	0	18.73	2.08	20.81	<=30	Pass
	1753.5	1	0	20.41	2.08	22.49	<=30	Pass
			7	20.39	2.08	22.47	<=30	Pass
			14	20.39	2.08	22.47	<=30	Pass
		8	0	19.04	2.08	21.12	<=30	Pass
			4	19.04	2.08	21.12	<=30	Pass
			7	19.16	2.08	21.24	<=30	Pass
		15	0	18.86	2.08	20.94	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	20.36	2.08	22.44	<=30	Pass
			13	20.32	2.08	22.40	<=30	Pass
			24	20.38	2.08	22.46	<=30	Pass
		12	0	19.42	2.08	21.50	<=30	Pass
			6	19.52	2.08	21.60	<=30	Pass
			13	19.52	2.08	21.60	<=30	Pass

		25	0	19.42	2.08	21.50	<=30	Pass
	1732.5	1	0	20.51	2.08	22.59	<=30	Pass
			13	20.60	2.08	22.68	<=30	Pass
			24	20.59	2.08	22.67	<=30	Pass
		12	0	19.63	2.08	21.71	<=30	Pass
			6	19.64	2.08	21.72	<=30	Pass
			13	19.59	2.08	21.67	<=30	Pass
		25	0	19.51	2.08	21.59	<=30	Pass
	1752.5	1	0	20.74	2.08	22.82	<=30	Pass
			13	20.79	2.08	22.87	<=30	Pass
			24	20.79	2.08	22.87	<=30	Pass
		12	0	19.61	2.08	21.69	<=30	Pass
			6	19.70	2.08	21.78	<=30	Pass
			13	19.71	2.08	21.79	<=30	Pass
		25	0	19.59	2.08	21.67	<=30	Pass
16QAM	1712.5	1	0	20.08	2.08	22.16	<=30	Pass
			13	20.16	2.08	22.24	<=30	Pass
			24	20.19	2.08	22.27	<=30	Pass
		12	0	18.63	2.08	20.71	<=30	Pass
			6	18.66	2.08	20.74	<=30	Pass
			13	18.58	2.08	20.66	<=30	Pass
		25	0	18.69	2.08	20.77	<=30	Pass
	1732.5	1	0	20.24	2.08	22.32	<=30	Pass
			13	20.24	2.08	22.32	<=30	Pass
			24	20.32	2.08	22.40	<=30	Pass
		12	0	18.73	2.08	20.81	<=30	Pass
			6	18.71	2.08	20.79	<=30	Pass
			13	18.58	2.08	20.66	<=30	Pass
		25	0	18.60	2.08	20.68	<=30	Pass
	1752.5	1	0	19.36	2.08	21.44	<=30	Pass
			13	19.46	2.08	21.54	<=30	Pass
			24	19.45	2.08	21.53	<=30	Pass
		12	0	18.79	2.08	20.87	<=30	Pass
			6	18.75	2.08	20.83	<=30	Pass
			13	18.81	2.08	20.89	<=30	Pass
		25	0	18.94	2.08	21.02	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	20.40	2.08	22.48	<=30	Pass
			25	20.41	2.08	22.49	<=30	Pass
			49	20.41	2.08	22.49	<=30	Pass
		25	0	19.51	2.08	21.59	<=30	Pass
			13	19.54	2.08	21.62	<=30	Pass
			25	19.56	2.08	21.64	<=30	Pass
		50	0	19.57	2.08	21.65	<=30	Pass
	1732.5	1	0	20.70	2.08	22.78	<=30	Pass
			25	20.70	2.08	22.78	<=30	Pass
			49	20.75	2.08	22.83	<=30	Pass
		25	0	19.62	2.08	21.70	<=30	Pass
			13	19.45	2.08	21.53	<=30	Pass
			25	19.66	2.08	21.74	<=30	Pass
		50	0	19.48	2.08	21.56	<=30	Pass

	1750	1	0	20.65	2.08	22.73	<=30	Pass
			25	20.80	2.08	22.88	<=30	Pass
			49	20.72	2.08	22.80	<=30	Pass
		25	0	19.71	2.08	21.79	<=30	Pass
			13	19.78	2.08	21.86	<=30	Pass
			25	19.67	2.08	21.75	<=30	Pass
		50	0	19.76	2.08	21.84	<=30	Pass
16QAM	1715	1	0	19.50	2.08	21.58	<=30	Pass
			25	19.58	2.08	21.66	<=30	Pass
			49	19.57	2.08	21.65	<=30	Pass
		25	0	18.79	2.08	20.87	<=30	Pass
			13	18.82	2.08	20.90	<=30	Pass
			25	18.84	2.08	20.92	<=30	Pass
		50	0	18.72	2.08	20.80	<=30	Pass
	1732.5	1	0	21.00	2.08	23.08	<=30	Pass
			25	21.01	2.08	23.09	<=30	Pass
			49	21.02	2.08	23.10	<=30	Pass
		25	0	18.69	2.08	20.77	<=30	Pass
			13	18.77	2.08	20.85	<=30	Pass
			25	18.83	2.08	20.91	<=30	Pass
		50	0	18.71	2.08	20.79	<=30	Pass
	1750	1	0	20.57	2.08	22.65	<=30	Pass
			25	20.69	2.08	22.77	<=30	Pass
			49	20.61	2.08	22.69	<=30	Pass
		25	0	18.76	2.08	20.84	<=30	Pass
			13	18.86	2.08	20.94	<=30	Pass
			25	18.81	2.08	20.89	<=30	Pass
		50	0	18.87	2.08	20.95	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	20.34	2.08	22.42	<=30	Pass
			38	20.32	2.08	22.40	<=30	Pass
			74	20.34	2.08	22.42	<=30	Pass
		36	0	19.47	2.08	21.55	<=30	Pass
			18	19.62	2.08	21.70	<=30	Pass
			39	19.53	2.08	21.61	<=30	Pass
		75	0	19.62	2.08	21.70	<=30	Pass
	1732.5	1	0	20.63	2.08	22.71	<=30	Pass
			38	20.70	2.08	22.78	<=30	Pass
			74	20.77	2.08	22.85	<=30	Pass
		36	0	19.54	2.08	21.62	<=30	Pass
			18	19.67	2.08	21.75	<=30	Pass
			39	19.51	2.08	21.59	<=30	Pass
		75	0	19.54	2.08	21.62	<=30	Pass
	1747.5	1	0	20.62	2.08	22.70	<=30	Pass
			38	20.63	2.08	22.71	<=30	Pass
			74	20.76	2.08	22.84	<=30	Pass
		36	0	19.74	2.08	21.82	<=30	Pass
			18	19.59	2.08	21.67	<=30	Pass
			39	19.70	2.08	21.78	<=30	Pass
		75	0	19.63	2.08	21.71	<=30	Pass
16QAM	1717.5	1	0	20.32	2.08	22.40	<=30	Pass

			38	20.36	2.08	22.44	<=30	Pass
			74	20.34	2.08	22.42	<=30	Pass
		36	0	18.69	2.08	20.77	<=30	Pass
			18	18.75	2.08	20.83	<=30	Pass
			39	18.80	2.08	20.88	<=30	Pass
		75	0	18.74	2.08	20.82	<=30	Pass
	1732.5	1	0	20.27	2.08	22.35	<=30	Pass
			38	20.34	2.08	22.42	<=30	Pass
			74	20.35	2.08	22.43	<=30	Pass
		36	0	18.75	2.08	20.83	<=30	Pass
			18	18.87	2.08	20.95	<=30	Pass
			39	18.87	2.08	20.95	<=30	Pass
		75	0	18.82	2.08	20.90	<=30	Pass
	1747.5	1	0	20.43	2.08	22.51	<=30	Pass
			38	20.53	2.08	22.61	<=30	Pass
			74	20.57	2.08	22.65	<=30	Pass
		36	0	18.97	2.08	21.05	<=30	Pass
			18	18.88	2.08	20.96	<=30	Pass
			39	18.87	2.08	20.95	<=30	Pass
		75	0	18.74	2.08	20.82	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	20.52	2.08	22.60	<=30	Pass
			50	20.42	2.08	22.50	<=30	Pass
			99	20.63	2.08	22.71	<=30	Pass
		50	0	19.59	2.08	21.67	<=30	Pass
			25	19.51	2.08	21.59	<=30	Pass
			50	19.51	2.08	21.59	<=30	Pass
		100	0	19.62	2.08	21.70	<=30	Pass
	1732.5	1	0	20.46	2.08	22.54	<=30	Pass
			50	20.51	2.08	22.59	<=30	Pass
			99	20.57	2.08	22.65	<=30	Pass
		50	0	19.53	2.08	21.61	<=30	Pass
			25	19.66	2.08	21.74	<=30	Pass
			50	19.69	2.08	21.77	<=30	Pass
		100	0	19.58	2.08	21.66	<=30	Pass
	1745	1	0	20.66	2.08	22.74	<=30	Pass
			50	20.75	2.08	22.83	<=30	Pass
			99	20.75	2.08	22.83	<=30	Pass
		50	0	19.70	2.08	21.78	<=30	Pass
			25	19.60	2.08	21.68	<=30	Pass
			50	19.70	2.08	21.78	<=30	Pass
		100	0	19.66	2.08	21.74	<=30	Pass
16QAM	1720	1	0	20.88	2.08	22.96	<=30	Pass
			50	20.84	2.08	22.92	<=30	Pass
			99	20.92	2.08	23.00	<=30	Pass
		50	0	18.65	2.08	20.73	<=30	Pass
			25	18.62	2.08	20.70	<=30	Pass
			50	18.69	2.08	20.77	<=30	Pass
		100	0	18.67	2.08	20.75	<=30	Pass
	1732.5	1	0	20.22	2.08	22.30	<=30	Pass
			50	20.22	2.08	22.30	<=30	Pass

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			99	20.28	2.08	22.36	<=30	Pass
		50	0	18.76	2.08	20.84	<=30	Pass
			25	18.81	2.08	20.89	<=30	Pass
			50	18.75	2.08	20.83	<=30	Pass
		100	0	18.64	2.08	20.72	<=30	Pass
	1745	1	0	19.52	2.08	21.60	<=30	Pass
			50	19.66	2.08	21.74	<=30	Pass
			99	19.63	2.08	21.71	<=30	Pass
		50	0	18.79	2.08	20.87	<=30	Pass
			25	18.88	2.08	20.96	<=30	Pass
			50	19.03	2.08	21.11	<=30	Pass
		100	0	18.74	2.08	20.82	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

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	16.465	0.0096	-2.5 to 2.5	Pass
					3.85	2.947	0.0017	-2.5 to 2.5	Pass
					4.43	-17.824	-0.0104	-2.5 to 2.5	Pass
				-30	3.85	-10.357	-0.0061	-2.5 to 2.5	Pass
				-20	3.85	-38.996	-0.0228	-2.5 to 2.5	Pass
				-10	3.85	-0.758	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-7.968	-0.0047	-2.5 to 2.5	Pass
				10	3.85	-13.976	-0.0082	-2.5 to 2.5	Pass
				30	3.85	2.861	0.0017	-2.5 to 2.5	Pass
				40	3.85	-19.755	-0.0115	-2.5 to 2.5	Pass
				50	3.85	13.261	0.0078	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	22.373	0.0129	-2.5 to 2.5	Pass
					3.85	-13.247	-0.0076	-2.5 to 2.5	Pass
					4.43	-42.171	-0.0243	-2.5 to 2.5	Pass
				-30	3.85	-35.620	-0.0206	-2.5 to 2.5	Pass
				-20	3.85	-16.150	-0.0093	-2.5 to 2.5	Pass
				-10	3.85	8.984	0.0052	-2.5 to 2.5	Pass
				0	3.85	-16.880	-0.0097	-2.5 to 2.5	Pass
				10	3.85	-9.398	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-26.622	-0.0154	-2.5 to 2.5	Pass
				40	3.85	-20.084	-0.0116	-2.5 to 2.5	Pass
				50	3.85	-30.785	-0.0178	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	10.400	0.0059	-2.5 to 2.5	Pass
					3.85	24.662	0.0141	-2.5 to 2.5	Pass
					4.43	36.535	0.0208	-2.5 to 2.5	Pass
				-30	3.85	26.450	0.0151	-2.5 to 2.5	Pass
				-20	3.85	34.475	0.0197	-2.5 to 2.5	Pass
				-10	3.85	23.131	0.0132	-2.5 to 2.5	Pass
				0	3.85	25.020	0.0143	-2.5 to 2.5	Pass
				10	3.85	20.027	0.0114	-2.5 to 2.5	Pass
				30	3.85	32.816	0.0187	-2.5 to 2.5	Pass
				40	3.85	36.464	0.0208	-2.5 to 2.5	Pass
				50	3.85	40.655	0.0232	-2.5 to 2.5	Pass

16QAM	1710.7	6	0	20	3.27	-12.417	-0.0073	-2.5 to 2.5	Pass
					3.85	-25.678	-0.0150	-2.5 to 2.5	Pass
					4.43	-32.115	-0.0188	-2.5 to 2.5	Pass
				-30	3.85	5.522	0.0032	-2.5 to 2.5	Pass
				-20	3.85	7.424	0.0043	-2.5 to 2.5	Pass
				-10	3.85	12.031	0.0070	-2.5 to 2.5	Pass
				0	3.85	22.688	0.0133	-2.5 to 2.5	Pass
				10	3.85	18.897	0.0110	-2.5 to 2.5	Pass
				30	3.85	16.537	0.0097	-2.5 to 2.5	Pass
				40	3.85	2.275	0.0013	-2.5 to 2.5	Pass
				50	3.85	5.794	0.0034	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-16.079	-0.0093	-2.5 to 2.5	Pass
					3.85	-2.131	-0.0012	-2.5 to 2.5	Pass
					4.43	12.074	0.0070	-2.5 to 2.5	Pass
				-30	3.85	14.448	0.0083	-2.5 to 2.5	Pass
				-20	3.85	28.310	0.0163	-2.5 to 2.5	Pass
				-10	3.85	30.942	0.0179	-2.5 to 2.5	Pass
				0	3.85	32.473	0.0187	-2.5 to 2.5	Pass
				10	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-18.010	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-18.539	-0.0107	-2.5 to 2.5	Pass
				50	3.85	-33.817	-0.0195	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	43.058	0.0245	-2.5 to 2.5	Pass
					3.85	20.356	0.0116	-2.5 to 2.5	Pass
					4.43	-9.427	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	3.862	0.0022	-2.5 to 2.5	Pass
				-20	3.85	21.343	0.0122	-2.5 to 2.5	Pass
				-10	3.85	7.124	0.0041	-2.5 to 2.5	Pass
				0	3.85	14.906	0.0085	-2.5 to 2.5	Pass
				10	3.85	26.951	0.0154	-2.5 to 2.5	Pass
				30	3.85	10.428	0.0059	-2.5 to 2.5	Pass
				40	3.85	11.716	0.0067	-2.5 to 2.5	Pass
				50	3.85	12.388	0.0071	-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	-10.915	-0.0064	-2.5 to 2.5	Pass
					3.85	-15.192	-0.0089	-2.5 to 2.5	Pass
					4.43	-14.920	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-29.383	-0.0172	-2.5 to 2.5	Pass
				-20	3.85	-33.975	-0.0199	-2.5 to 2.5	Pass
				-10	3.85	-8.969	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-31.228	-0.0182	-2.5 to 2.5	Pass
				10	3.85	-16.794	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-34.661	-0.0203	-2.5 to 2.5	Pass
				40	3.85	-41.800	-0.0244	-2.5 to 2.5	Pass
				50	3.85	12.059	0.0070	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	25.721	0.0148	-2.5 to 2.5	Pass
					3.85	30.670	0.0177	-2.5 to 2.5	Pass
					4.43	14.920	0.0086	-2.5 to 2.5	Pass
				-30	3.85	-23.704	-0.0137	-2.5 to 2.5	Pass
				-20	3.85	-14.806	-0.0085	-2.5 to 2.5	Pass
				-10	3.85	-35.491	-0.0205	-2.5 to 2.5	Pass
				0	3.85	-9.713	-0.0056	-2.5 to 2.5	Pass

				10	3.85	-27.781	-0.0160	-2.5 to 2.5	Pass
				30	3.85	-34.504	-0.0199	-2.5 to 2.5	Pass
				40	3.85	-13.862	-0.0080	-2.5 to 2.5	Pass
				50	3.85	-32.587	-0.0188	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	14.334	0.0082	-2.5 to 2.5	Pass
					3.85	37.565	0.0214	-2.5 to 2.5	Pass
					4.43	0.744	0.0004	-2.5 to 2.5	Pass
				-30	3.85	2.303	0.0013	-2.5 to 2.5	Pass
				-20	3.85	-8.612	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-7.911	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-4.163	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-13.204	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-10.757	-0.0061	-2.5 to 2.5	Pass
				40	3.85	-1.988	-0.0011	-2.5 to 2.5	Pass
				50	3.85	0.086	0.0000	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-30.313	-0.0177	-2.5 to 2.5	Pass
					3.85	-4.463	-0.0026	-2.5 to 2.5	Pass
					4.43	3.290	0.0019	-2.5 to 2.5	Pass
				-30	3.85	-3.262	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-9.885	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-12.360	-0.0072	-2.5 to 2.5	Pass
				0	3.85	-12.875	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-11.845	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-9.513	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-31.314	-0.0183	-2.5 to 2.5	Pass
				50	3.85	-15.507	-0.0091	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	0.601	0.0003	-2.5 to 2.5	Pass
					3.85	1.073	0.0006	-2.5 to 2.5	Pass
					4.43	24.691	0.0143	-2.5 to 2.5	Pass
				-30	3.85	35.920	0.0207	-2.5 to 2.5	Pass
				-20	3.85	-16.494	-0.0095	-2.5 to 2.5	Pass
				-10	3.85	-1.259	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
				10	3.85	2.832	0.0016	-2.5 to 2.5	Pass
				30	3.85	-1.359	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-3.247	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-3.161	-0.0018	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-3.018	-0.0017	-2.5 to 2.5	Pass
					3.85	12.789	0.0073	-2.5 to 2.5	Pass
					4.43	32.516	0.0185	-2.5 to 2.5	Pass
				-30	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	17.338	0.0099	-2.5 to 2.5	Pass
				-10	3.85	34.933	0.0199	-2.5 to 2.5	Pass
				0	3.85	13.947	0.0080	-2.5 to 2.5	Pass
				10	3.85	23.503	0.0134	-2.5 to 2.5	Pass
				30	3.85	34.447	0.0196	-2.5 to 2.5	Pass
				40	3.85	12.832	0.0073	-2.5 to 2.5	Pass
				50	3.85	25.892	0.0148	-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	2.933	0.0017	-2.5 to 2.5	Pass
					3.85	-11.187	-0.0065	-2.5 to 2.5	Pass
					4.43	-26.593	-0.0155	-2.5 to 2.5	Pass

				-30	3.85	-15.264	-0.0089	-2.5 to 2.5	Pass
				-20	3.85	-1.874	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-10.686	-0.0062	-2.5 to 2.5	Pass
				0	3.85	-2.890	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-21.000	-0.0123	-2.5 to 2.5	Pass
				30	3.85	-36.135	-0.0211	-2.5 to 2.5	Pass
				40	3.85	-19.670	-0.0115	-2.5 to 2.5	Pass
				50	3.85	-3.133	-0.0018	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	37.723	0.0218	-2.5 to 2.5	Pass
					3.85	34.075	0.0197	-2.5 to 2.5	Pass
					4.43	-10.357	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-21.915	-0.0126	-2.5 to 2.5	Pass
				-20	3.85	-20.270	-0.0117	-2.5 to 2.5	Pass
				-10	3.85	-13.118	-0.0076	-2.5 to 2.5	Pass
				0	3.85	-32.272	-0.0186	-2.5 to 2.5	Pass
				10	3.85	-12.932	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-17.767	-0.0103	-2.5 to 2.5	Pass
				40	3.85	-24.290	-0.0140	-2.5 to 2.5	Pass
				50	3.85	8.783	0.0051	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	14.663	0.0084	-2.5 to 2.5	Pass
					3.85	10.057	0.0057	-2.5 to 2.5	Pass
					4.43	18.883	0.0108	-2.5 to 2.5	Pass
				-30	3.85	14.348	0.0082	-2.5 to 2.5	Pass
				-20	3.85	26.050	0.0149	-2.5 to 2.5	Pass
				-10	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				0	3.85	-19.054	-0.0109	-2.5 to 2.5	Pass
				10	3.85	-17.967	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-15.035	-0.0086	-2.5 to 2.5	Pass
				40	3.85	-9.427	-0.0054	-2.5 to 2.5	Pass
				50	3.85	-11.902	-0.0068	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-5.507	-0.0032	-2.5 to 2.5	Pass
					3.85	-13.003	-0.0076	-2.5 to 2.5	Pass
					4.43	-2.160	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	5.536	0.0032	-2.5 to 2.5	Pass
				-20	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-4.992	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-4.592	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-6.480	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-0.772	-0.0005	-2.5 to 2.5	Pass
				40	3.85	6.194	0.0036	-2.5 to 2.5	Pass
				50	3.85	7.396	0.0043	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	2.074	0.0012	-2.5 to 2.5	Pass
					3.85	-6.037	-0.0035	-2.5 to 2.5	Pass
					4.43	2.117	0.0012	-2.5 to 2.5	Pass
				-30	3.85	8.655	0.0050	-2.5 to 2.5	Pass
				-20	3.85	20.814	0.0120	-2.5 to 2.5	Pass
				-10	3.85	26.422	0.0153	-2.5 to 2.5	Pass
				0	3.85	29.154	0.0168	-2.5 to 2.5	Pass
				10	3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-8.397	-0.0048	-2.5 to 2.5	Pass
				40	3.85	-3.905	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-7.682	-0.0044	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-8.497	-0.0048	-2.5 to 2.5	Pass
					3.85	3.219	0.0018	-2.5 to 2.5	Pass
					4.43	21.129	0.0121	-2.5 to 2.5	Pass
				-30	3.85	7.911	0.0045	-2.5 to 2.5	Pass
				-20	3.85	24.390	0.0139	-2.5 to 2.5	Pass
				-10	3.85	36.192	0.0207	-2.5 to 2.5	Pass
				0	3.85	44.589	0.0254	-2.5 to 2.5	Pass

				10	3.85	14.105	0.0080	-2.5 to 2.5	Pass
				30	3.85	30.727	0.0175	-2.5 to 2.5	Pass
				40	3.85	33.674	0.0192	-2.5 to 2.5	Pass
				50	3.85	19.441	0.0111	-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	-0.114	-0.0001	-2.5 to 2.5	Pass
					3.85	-22.273	-0.0130	-2.5 to 2.5	Pass
					4.43	-31.042	-0.0181	-2.5 to 2.5	Pass
				-30	3.85	-30.413	-0.0177	-2.5 to 2.5	Pass
				-20	3.85	-1.802	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-17.467	-0.0102	-2.5 to 2.5	Pass
				0	3.85	-11.430	-0.0067	-2.5 to 2.5	Pass
				10	3.85	-28.796	-0.0168	-2.5 to 2.5	Pass
				30	3.85	-36.635	-0.0214	-2.5 to 2.5	Pass
				40	3.85	-38.738	-0.0226	-2.5 to 2.5	Pass
				50	3.85	-9.370	-0.0055	-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	5.622	0.0032	-2.5 to 2.5	Pass
					4.43	-29.483	-0.0170	-2.5 to 2.5	Pass
				-30	3.85	-11.473	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-22.087	-0.0127	-2.5 to 2.5	Pass
				-10	3.85	-15.450	-0.0089	-2.5 to 2.5	Pass
				0	3.85	-33.517	-0.0193	-2.5 to 2.5	Pass
				10	3.85	-22.902	-0.0132	-2.5 to 2.5	Pass
				30	3.85	-32.086	-0.0185	-2.5 to 2.5	Pass
				40	3.85	-3.018	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-12.202	-0.0070	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	3.033	0.0017	-2.5 to 2.5	Pass
					3.85	4.892	0.0028	-2.5 to 2.5	Pass
					4.43	5.822	0.0033	-2.5 to 2.5	Pass
				-30	3.85	4.306	0.0025	-2.5 to 2.5	Pass
				-20	3.85	3.476	0.0020	-2.5 to 2.5	Pass
				-10	3.85	6.566	0.0038	-2.5 to 2.5	Pass
				0	3.85	7.725	0.0044	-2.5 to 2.5	Pass
				10	3.85	10.500	0.0060	-2.5 to 2.5	Pass
				30	3.85	14.005	0.0080	-2.5 to 2.5	Pass
				40	3.85	8.998	0.0051	-2.5 to 2.5	Pass
				50	3.85	11.644	0.0067	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-33.059	-0.0193	-2.5 to 2.5	Pass
					3.85	-37.065	-0.0216	-2.5 to 2.5	Pass
					4.43	-37.451	-0.0218	-2.5 to 2.5	Pass
				-30	3.85	-29.211	-0.0170	-2.5 to 2.5	Pass
				-20	3.85	-20.628	-0.0120	-2.5 to 2.5	Pass
				-10	3.85	-19.155	-0.0112	-2.5 to 2.5	Pass
				0	3.85	-27.938	-0.0163	-2.5 to 2.5	Pass
				10	3.85	-22.874	-0.0133	-2.5 to 2.5	Pass
				30	3.85	-24.118	-0.0141	-2.5 to 2.5	Pass
				40	3.85	-26.865	-0.0157	-2.5 to 2.5	Pass
				50	3.85	-28.510	-0.0166	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-38.781	-0.0224	-2.5 to 2.5	Pass
					3.85	-28.253	-0.0163	-2.5 to 2.5	Pass
					4.43	-14.434	-0.0083	-2.5 to 2.5	Pass

				-30	3.85	-4.478	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-1.316	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.844	-0.0005	-2.5 to 2.5	Pass
				0	3.85	5.937	0.0034	-2.5 to 2.5	Pass
				10	3.85	9.913	0.0057	-2.5 to 2.5	Pass
				30	3.85	16.150	0.0093	-2.5 to 2.5	Pass
				40	3.85	28.882	0.0167	-2.5 to 2.5	Pass
				50	3.85	27.995	0.0162	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	2.818	0.0016	-2.5 to 2.5	Pass
					3.85	14.062	0.0080	-2.5 to 2.5	Pass
					4.43	-0.343	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	23.217	0.0133	-2.5 to 2.5	Pass
				-20	3.85	2.031	0.0012	-2.5 to 2.5	Pass
				-10	3.85	16.937	0.0097	-2.5 to 2.5	Pass
				0	3.85	22.101	0.0126	-2.5 to 2.5	Pass
				10	3.85	25.892	0.0148	-2.5 to 2.5	Pass
				30	3.85	37.122	0.0212	-2.5 to 2.5	Pass
				40	3.85	20.585	0.0118	-2.5 to 2.5	Pass
				50	3.85	-15.249	-0.0087	-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	9.885	0.0058	-2.5 to 2.5	Pass
					3.85	-26.922	-0.0157	-2.5 to 2.5	Pass
					4.43	-27.180	-0.0158	-2.5 to 2.5	Pass
				-30	3.85	-28.467	-0.0166	-2.5 to 2.5	Pass
				-20	3.85	-31.142	-0.0181	-2.5 to 2.5	Pass
				-10	3.85	-18.554	-0.0108	-2.5 to 2.5	Pass
				0	3.85	-23.904	-0.0139	-2.5 to 2.5	Pass
				10	3.85	-21.858	-0.0127	-2.5 to 2.5	Pass
				30	3.85	-31.571	-0.0184	-2.5 to 2.5	Pass
				40	3.85	-23.532	-0.0137	-2.5 to 2.5	Pass
				50	3.85	-17.180	-0.0100	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	5.779	0.0033	-2.5 to 2.5	Pass
					3.85	19.069	0.0110	-2.5 to 2.5	Pass
					4.43	-16.809	-0.0097	-2.5 to 2.5	Pass
				-30	3.85	7.668	0.0044	-2.5 to 2.5	Pass
				-20	3.85	-15.850	-0.0091	-2.5 to 2.5	Pass
				-10	3.85	-34.189	-0.0197	-2.5 to 2.5	Pass
				0	3.85	-9.241	-0.0053	-2.5 to 2.5	Pass
				10	3.85	-21.358	-0.0123	-2.5 to 2.5	Pass
				30	3.85	-39.539	-0.0228	-2.5 to 2.5	Pass
				40	3.85	-8.097	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-14.462	-0.0083	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	2.375	0.0014	-2.5 to 2.5	Pass
					3.85	6.065	0.0035	-2.5 to 2.5	Pass
					4.43	4.020	0.0023	-2.5 to 2.5	Pass
				-30	3.85	-3.877	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-16.751	-0.0096	-2.5 to 2.5	Pass
				-10	3.85	-10.929	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-9.069	-0.0052	-2.5 to 2.5	Pass
				10	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-3.433	-0.0020	-2.5 to 2.5	Pass
				40	3.85	0.100	0.0001	-2.5 to 2.5	Pass

				50	3.85	2.589	0.0015	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-14.420	-0.0084	-2.5 to 2.5	Pass
					3.85	-20.270	-0.0118	-2.5 to 2.5	Pass
					4.43	-13.990	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-16.952	-0.0099	-2.5 to 2.5	Pass
				-20	3.85	-11.001	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-15.106	-0.0088	-2.5 to 2.5	Pass
				0	3.85	-15.850	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-19.755	-0.0115	-2.5 to 2.5	Pass
				30	3.85	-27.766	-0.0162	-2.5 to 2.5	Pass
				40	3.85	-36.135	-0.0210	-2.5 to 2.5	Pass
				50	3.85	-8.898	-0.0052	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-30.499	-0.0176	-2.5 to 2.5	Pass
					3.85	-21.772	-0.0126	-2.5 to 2.5	Pass
					4.43	-14.520	-0.0084	-2.5 to 2.5	Pass
				-30	3.85	-0.086	0.0000	-2.5 to 2.5	Pass
				-20	3.85	14.305	0.0083	-2.5 to 2.5	Pass
				-10	3.85	18.854	0.0109	-2.5 to 2.5	Pass
				0	3.85	16.322	0.0094	-2.5 to 2.5	Pass
				10	3.85	21.930	0.0127	-2.5 to 2.5	Pass
				30	3.85	-1.044	-0.0006	-2.5 to 2.5	Pass
				40	3.85	3.676	0.0021	-2.5 to 2.5	Pass
				50	3.85	-1.659	-0.0010	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-3.591	-0.0021	-2.5 to 2.5	Pass
					3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
					4.43	-14.863	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	14.477	0.0083	-2.5 to 2.5	Pass
				-20	3.85	19.383	0.0111	-2.5 to 2.5	Pass
				-10	3.85	34.361	0.0197	-2.5 to 2.5	Pass
				0	3.85	1.860	0.0011	-2.5 to 2.5	Pass
				10	3.85	7.825	0.0045	-2.5 to 2.5	Pass
				30	3.85	15.478	0.0089	-2.5 to 2.5	Pass
				40	3.85	24.791	0.0142	-2.5 to 2.5	Pass
				50	3.85	29.984	0.0172	-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	21.586	0.0125	-2.5 to 2.5	Pass
					3.85	-21.315	-0.0124	-2.5 to 2.5	Pass
					4.43	-19.569	-0.0114	-2.5 to 2.5	Pass
				-30	3.85	-16.637	-0.0097	-2.5 to 2.5	Pass
				-20	3.85	-13.833	-0.0080	-2.5 to 2.5	Pass
				-10	3.85	-30.856	-0.0179	-2.5 to 2.5	Pass
				0	3.85	-14.663	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-31.714	-0.0184	-2.5 to 2.5	Pass
				30	3.85	-25.005	-0.0145	-2.5 to 2.5	Pass
				40	3.85	-17.810	-0.0104	-2.5 to 2.5	Pass
				50	3.85	6.967	0.0041	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	16.665	0.0096	-2.5 to 2.5	Pass
					3.85	31.114	0.0180	-2.5 to 2.5	Pass
					4.43	-0.215	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-12.445	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-31.271	-0.0180	-2.5 to 2.5	Pass
				-10	3.85	-5.865	-0.0034	-2.5 to 2.5	Pass

				0	3.85	-20.528	-0.0118	-2.5 to 2.5	Pass
				10	3.85	-35.992	-0.0208	-2.5 to 2.5	Pass
				30	3.85	-13.189	-0.0076	-2.5 to 2.5	Pass
				40	3.85	-24.047	-0.0139	-2.5 to 2.5	Pass
				50	3.85	-37.279	-0.0215	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	3.290	0.0019	-2.5 to 2.5	Pass
					3.85	17.352	0.0099	-2.5 to 2.5	Pass
					4.43	9.356	0.0054	-2.5 to 2.5	Pass
				-30	3.85	2.975	0.0017	-2.5 to 2.5	Pass
				-20	3.85	-2.661	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-7.095	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-9.913	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-17.939	-0.0103	-2.5 to 2.5	Pass
				40	3.85	-38.252	-0.0219	-2.5 to 2.5	Pass
				50	3.85	-10.557	-0.0060	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-22.616	-0.0131	-2.5 to 2.5	Pass
					3.85	-12.274	-0.0071	-2.5 to 2.5	Pass
					4.43	-19.770	-0.0115	-2.5 to 2.5	Pass
				-30	3.85	-21.830	-0.0127	-2.5 to 2.5	Pass
				-20	3.85	-19.326	-0.0112	-2.5 to 2.5	Pass
				-10	3.85	-25.249	-0.0147	-2.5 to 2.5	Pass
				0	3.85	-21.844	-0.0127	-2.5 to 2.5	Pass
				10	3.85	-16.379	-0.0095	-2.5 to 2.5	Pass
				30	3.85	-27.995	-0.0163	-2.5 to 2.5	Pass
				40	3.85	-26.851	-0.0156	-2.5 to 2.5	Pass
				50	3.85	-23.432	-0.0136	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-35.734	-0.0206	-2.5 to 2.5	Pass
					3.85	-20.986	-0.0121	-2.5 to 2.5	Pass
					4.43	-6.995	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	14.877	0.0086	-2.5 to 2.5	Pass
				-20	3.85	27.680	0.0160	-2.5 to 2.5	Pass
				-10	3.85	32.902	0.0190	-2.5 to 2.5	Pass
				0	3.85	6.123	0.0035	-2.5 to 2.5	Pass
				10	3.85	13.804	0.0080	-2.5 to 2.5	Pass
				30	3.85	26.307	0.0152	-2.5 to 2.5	Pass
				40	3.85	30.284	0.0175	-2.5 to 2.5	Pass
				50	3.85	-5.736	-0.0033	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-5.436	-0.0031	-2.5 to 2.5	Pass
					3.85	-26.565	-0.0152	-2.5 to 2.5	Pass
					4.43	-0.958	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-13.747	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-28.510	-0.0163	-2.5 to 2.5	Pass
				-10	3.85	-6.952	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-14.477	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-29.626	-0.0170	-2.5 to 2.5	Pass
				30	3.85	-36.292	-0.0208	-2.5 to 2.5	Pass
				40	3.85	-7.567	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-14.548	-0.0083	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
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 / NTNV						
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 / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.1.5 B4_15MHz

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

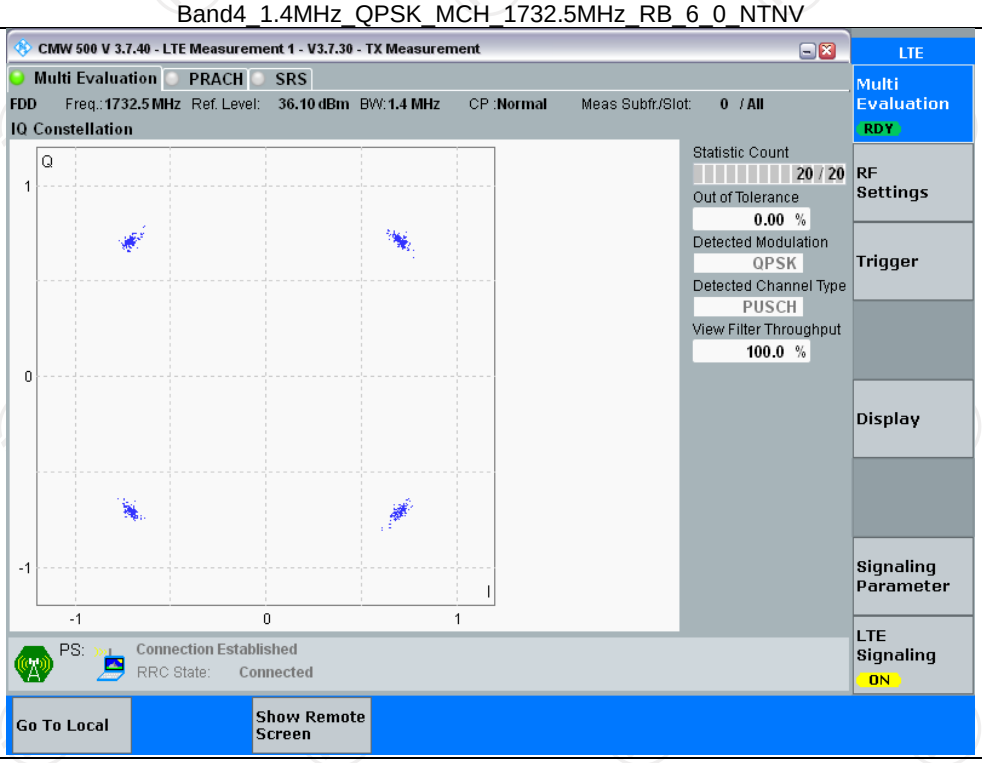
3.1.6 B4_20MHz

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

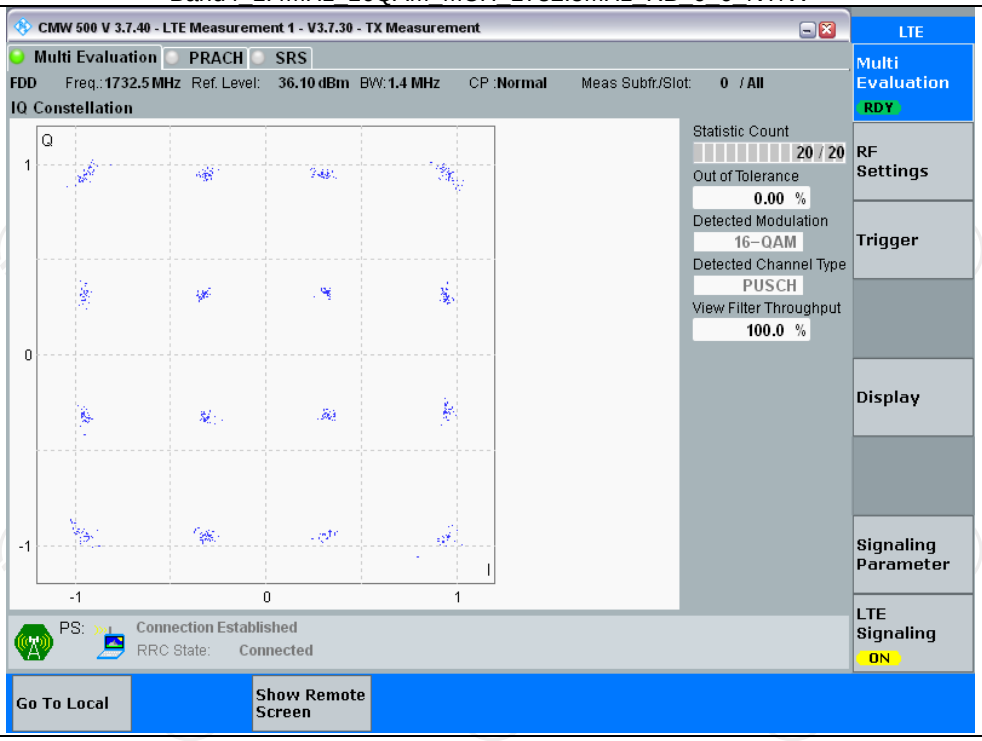
3.2 Test Graph

3.2.1 B4_1.4MHz

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

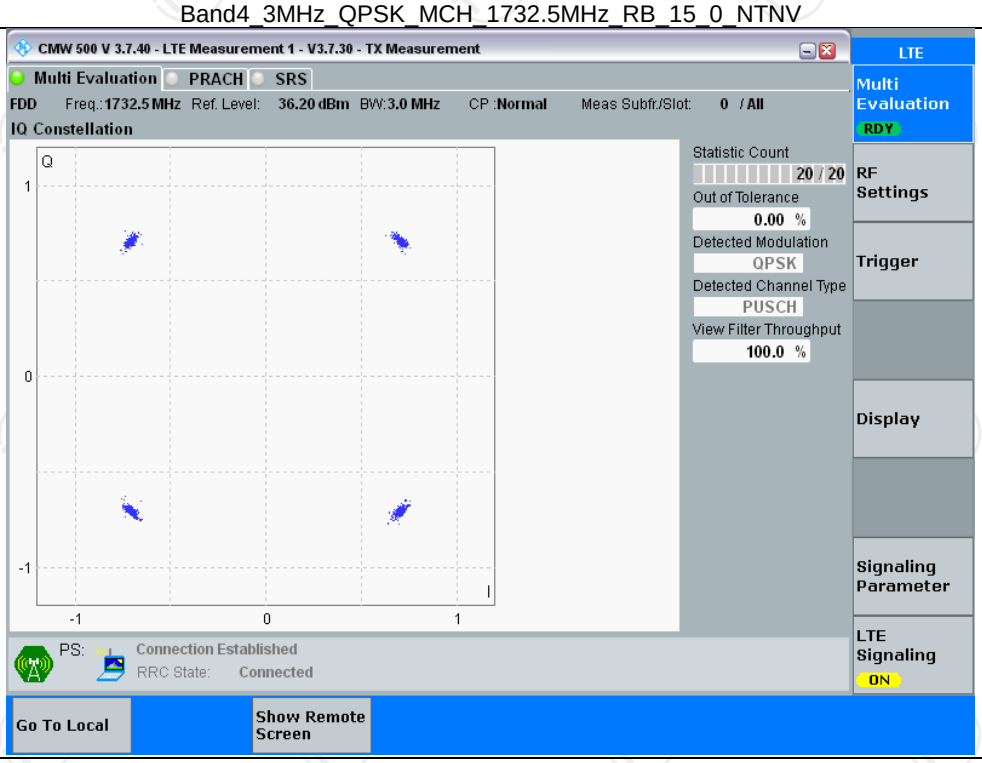


Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV

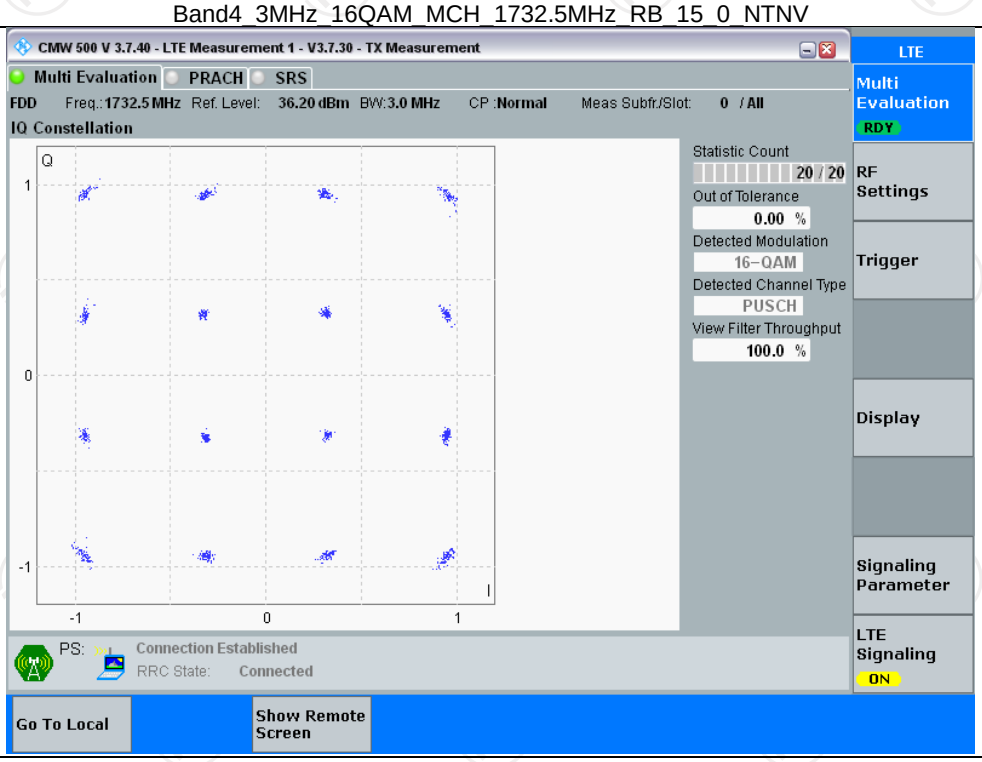


3.2.2 B4_3MHz

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

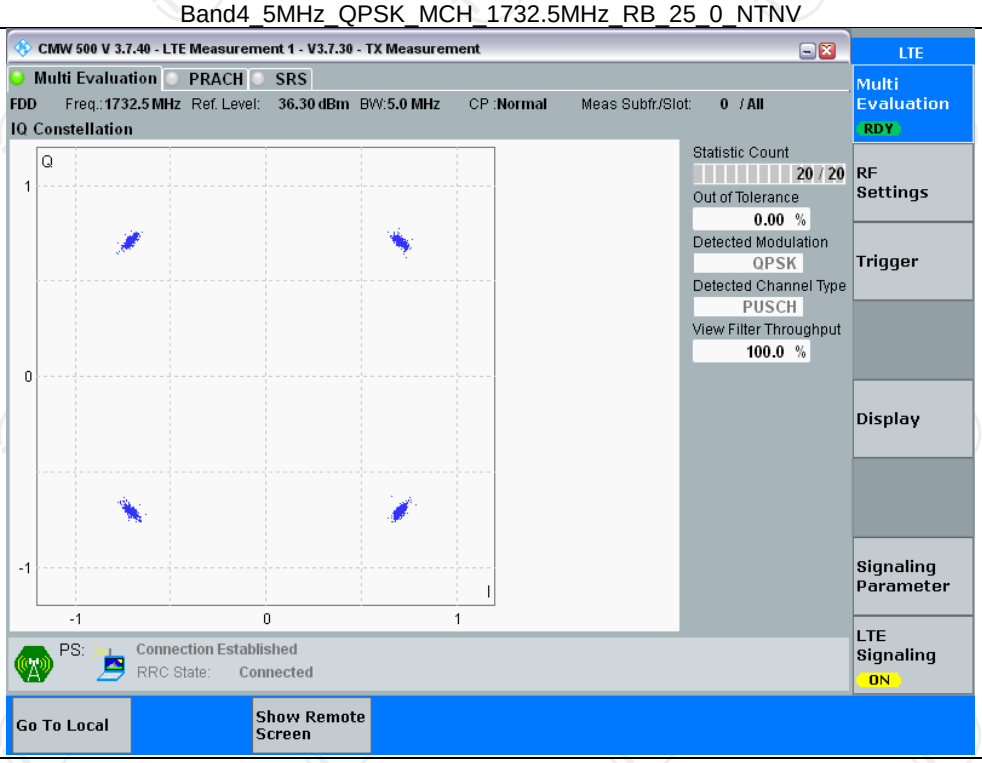


Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

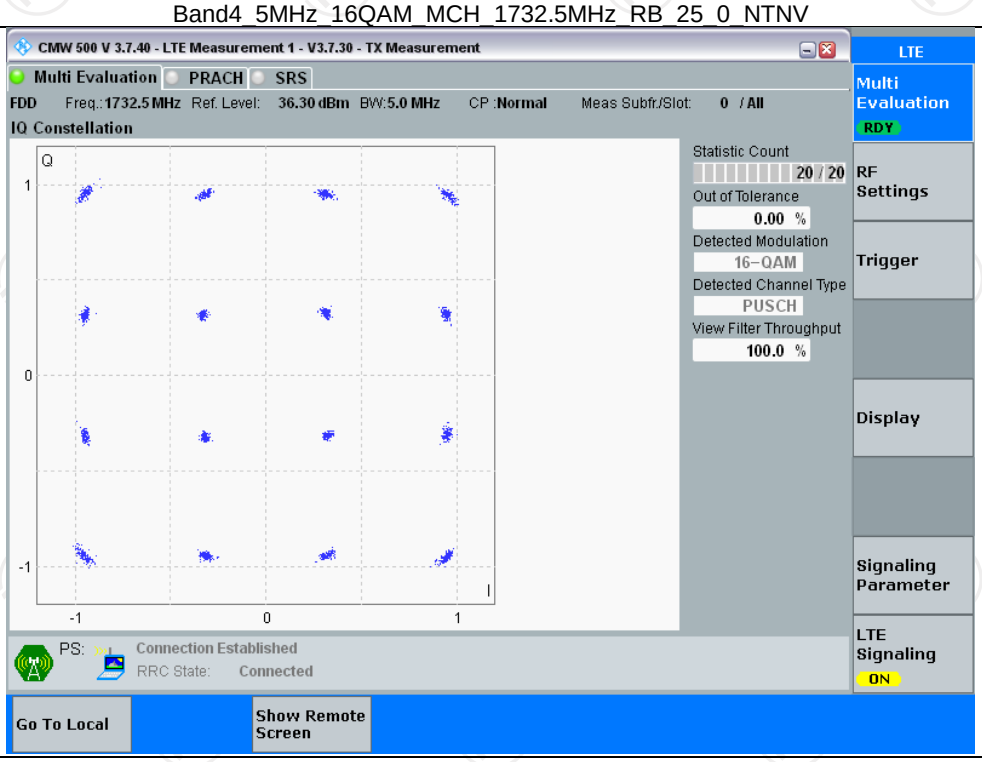


3.2.3 B4_5MHz

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

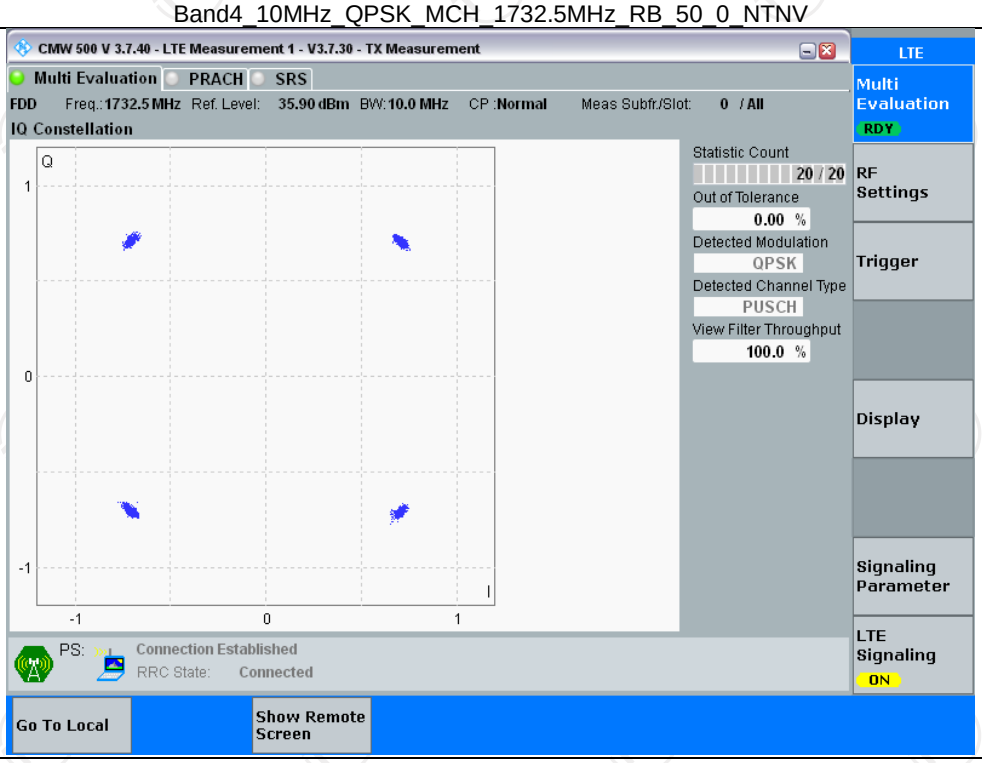


Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV

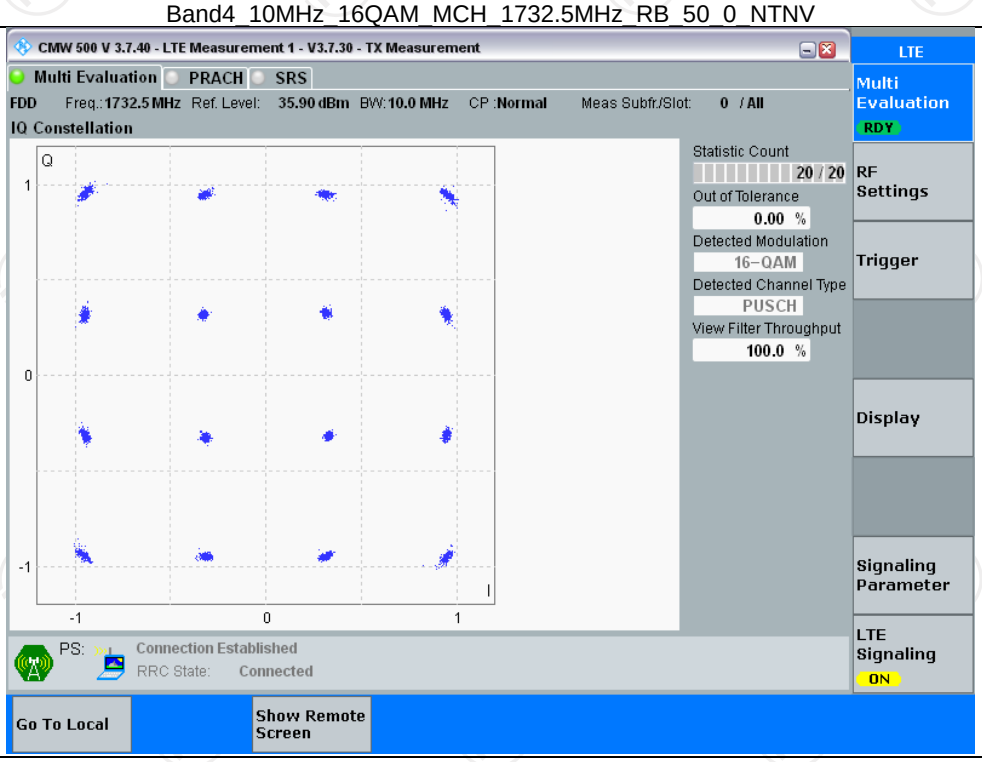


3.2.4 B4_10MHz

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV

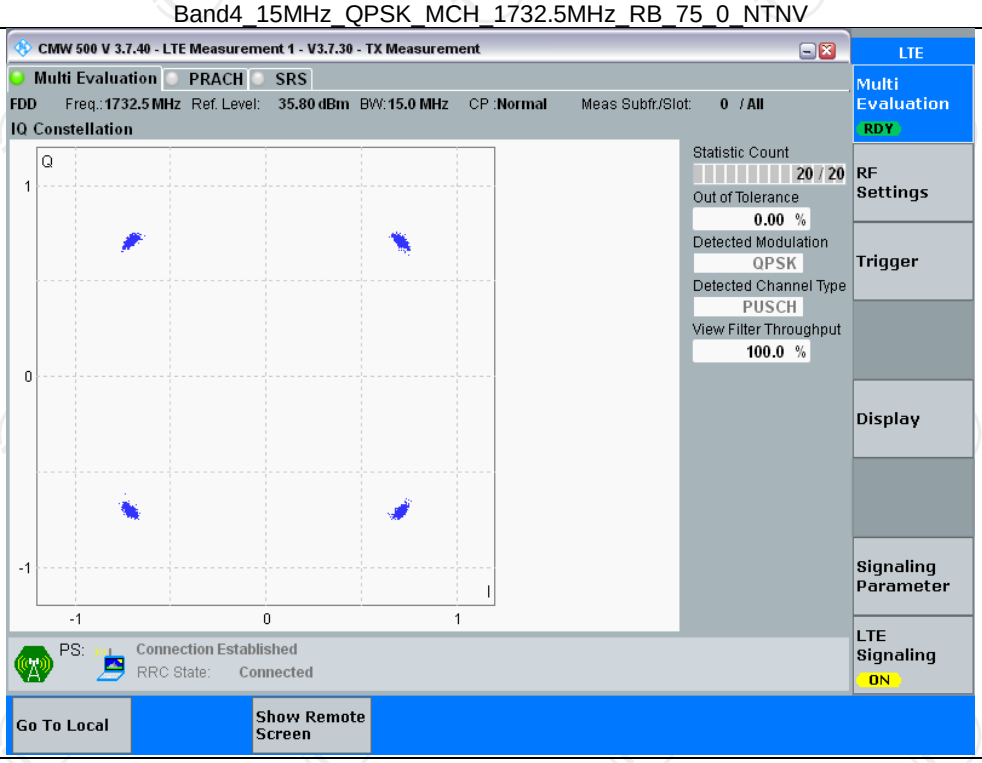


Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

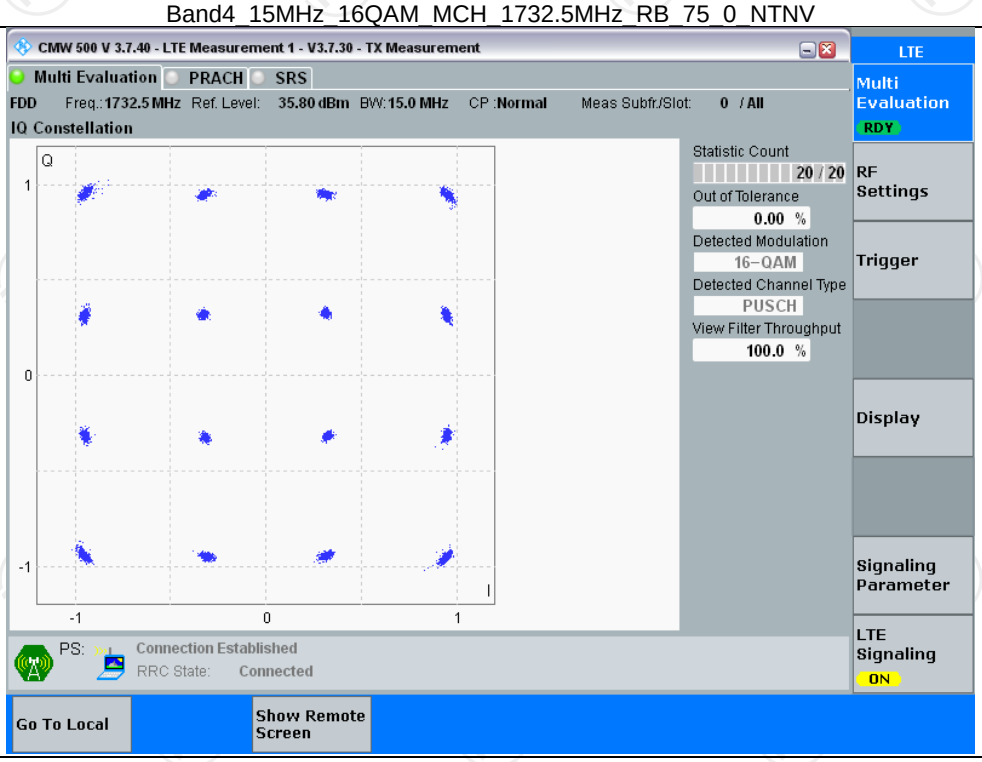


3.2.5 B4_15MHz

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

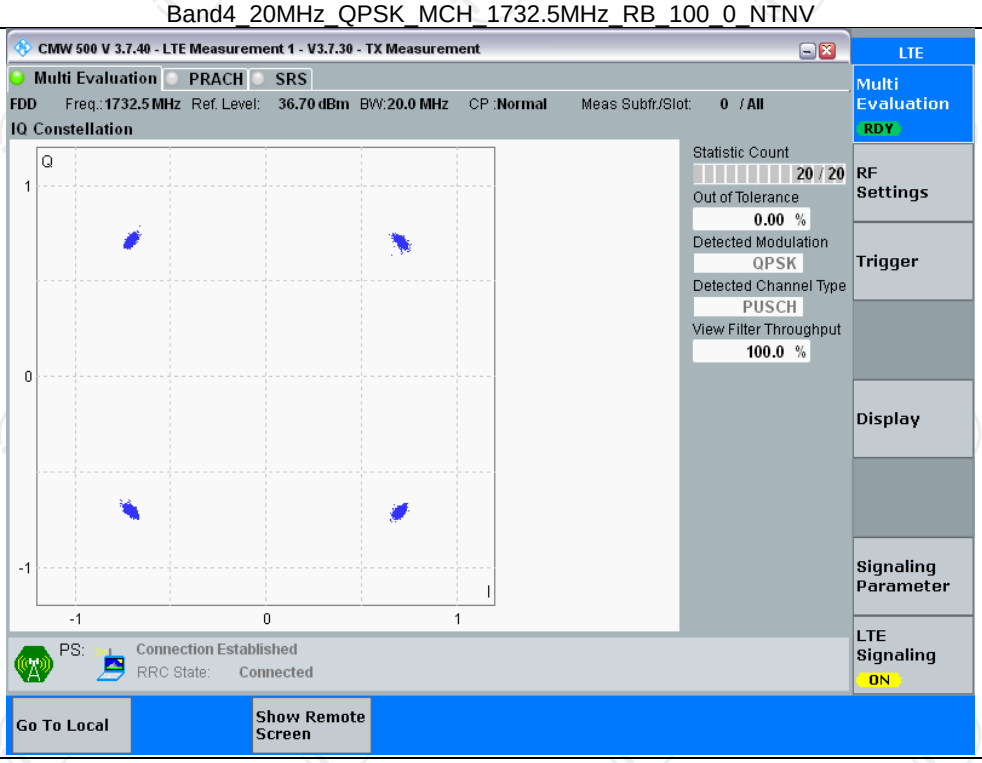


Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

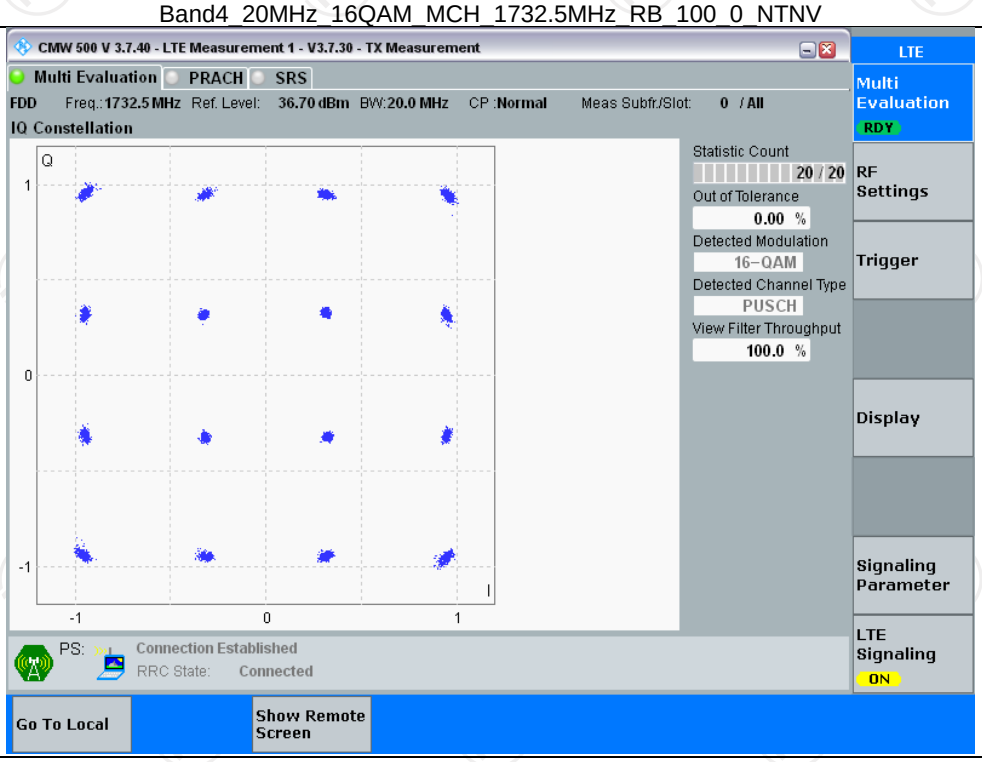


3.2.6 B4_20MHz

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



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	1.120	/	Pass
		1732.5	6	0	1.115	/	Pass
		1754.3	6	0	1.114	/	Pass
	16QAM	1710.7	6	0	1.116	/	Pass
		1732.5	6	0	1.108	/	Pass
		1754.3	6	0	1.122	/	Pass
3	QPSK	1711.5	15	0	2.762	/	Pass
		1732.5	15	0	2.768	/	Pass
		1753.5	15	0	2.768	/	Pass
	16QAM	1711.5	15	0	2.762	/	Pass
		1732.5	15	0	2.747	/	Pass
		1753.5	15	0	2.765	/	Pass
5	QPSK	1712.5	25	0	4.548	/	Pass
		1732.5	25	0	4.556	/	Pass
		1752.5	25	0	4.555	/	Pass
	16QAM	1712.5	25	0	4.580	/	Pass
		1732.5	25	0	4.562	/	Pass
		1752.5	25	0	4.552	/	Pass
10	QPSK	1715	50	0	9.090	/	Pass
		1732.5	50	0	9.052	/	Pass
		1750	50	0	9.080	/	Pass
	16QAM	1715	50	0	9.088	/	Pass
		1732.5	50	0	9.069	/	Pass
		1750	50	0	9.098	/	Pass
15	QPSK	1717.5	75	0	13.613	/	Pass
		1732.5	75	0	13.594	/	Pass
		1747.5	75	0	13.595	/	Pass
	16QAM	1717.5	75	0	13.622	/	Pass
		1732.5	75	0	13.646	/	Pass
		1747.5	75	0	13.576	/	Pass
20	QPSK	1720	100	0	18.225	/	Pass
		1732.5	100	0	18.129	/	Pass
		1745	100	0	18.149	/	Pass
	16QAM	1720	100	0	18.192	/	Pass
		1732.5	100	0	18.128	/	Pass
		1745	100	0	18.156	/	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	1.275	/	Pass
		1732.5	6	0	1.277	/	Pass
		1754.3	6	0	1.276	/	Pass

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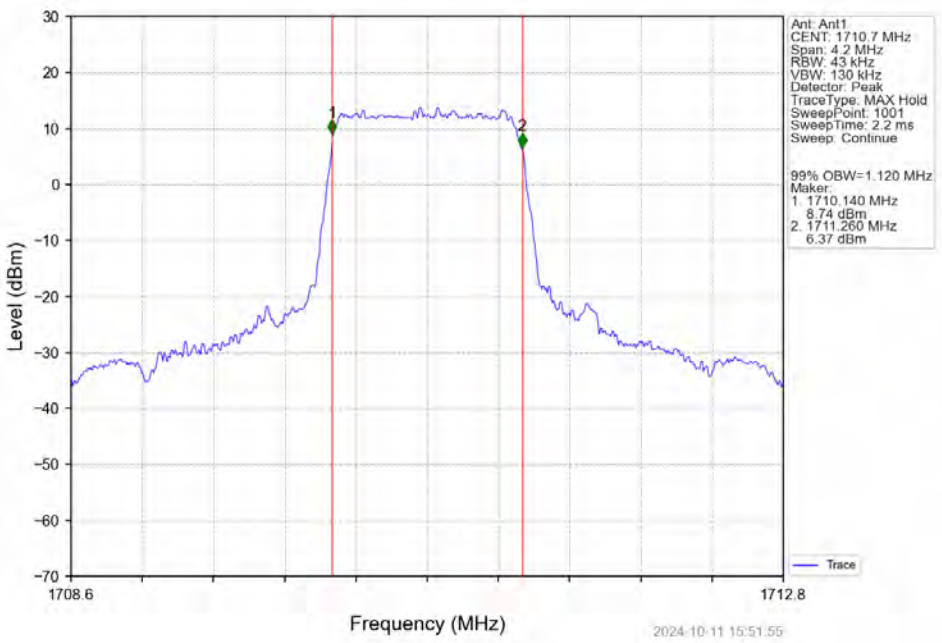
	16QAM	1710.7	6	0	1.278	/	Pass
		1732.5	6	0	1.281	/	Pass
		1754.3	6	0	1.267	/	Pass
3	QPSK	1711.5	15	0	3.093	/	Pass
		1732.5	15	0	3.087	/	Pass
		1753.5	15	0	3.104	/	Pass
	16QAM	1711.5	15	0	3.108	/	Pass
		1732.5	15	0	3.112	/	Pass
		1753.5	15	0	3.103	/	Pass
5	QPSK	1712.5	25	0	5.073	/	Pass
		1732.5	25	0	5.076	/	Pass
		1752.5	25	0	5.049	/	Pass
	16QAM	1712.5	25	0	5.091	/	Pass
		1732.5	25	0	5.054	/	Pass
		1752.5	25	0	5.050	/	Pass
10	QPSK	1715	50	0	10.100	/	Pass
		1732.5	50	0	10.075	/	Pass
		1750	50	0	10.012	/	Pass
	16QAM	1715	50	0	10.137	/	Pass
		1732.5	50	0	10.006	/	Pass
		1750	50	0	10.046	/	Pass
15	QPSK	1717.5	75	0	15.174	/	Pass
		1732.5	75	0	15.172	/	Pass
		1747.5	75	0	15.152	/	Pass
	16QAM	1717.5	75	0	15.102	/	Pass
		1732.5	75	0	15.297	/	Pass
		1747.5	75	0	15.200	/	Pass
20	QPSK	1720	100	0	20.188	/	Pass
		1732.5	100	0	19.919	/	Pass
		1745	100	0	19.980	/	Pass
	16QAM	1720	100	0	19.967	/	Pass
		1732.5	100	0	19.983	/	Pass
		1745	100	0	20.178	/	Pass

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

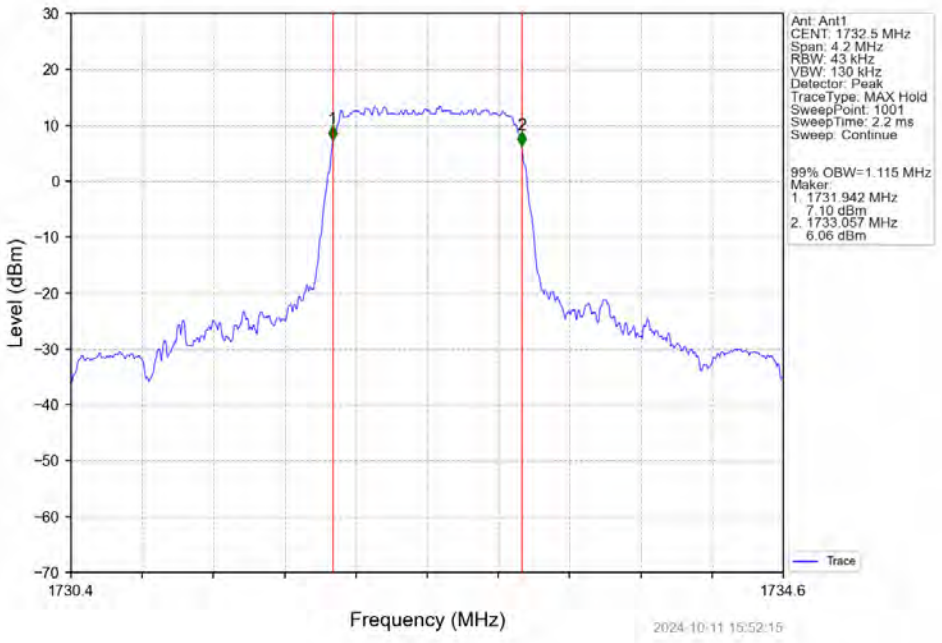
4.2 Test Graph

4.2.1 Band4_OBW

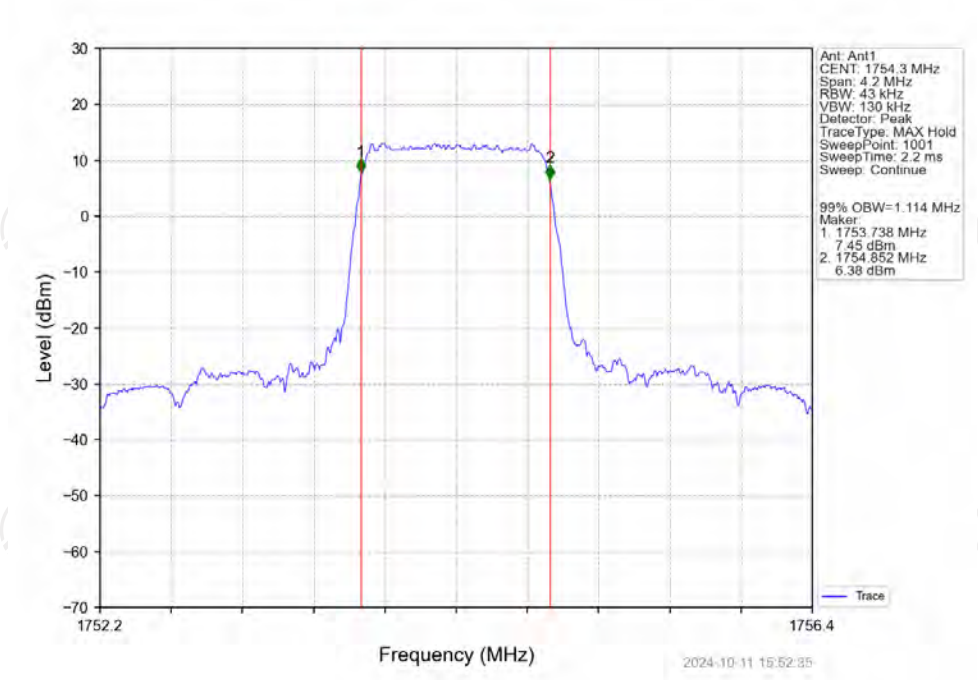
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



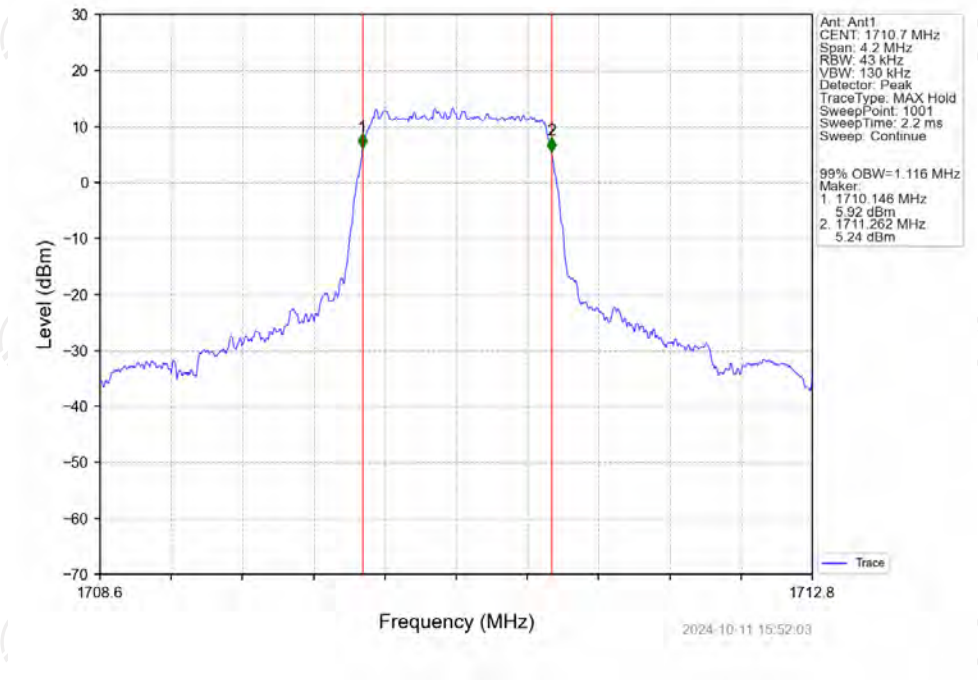
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



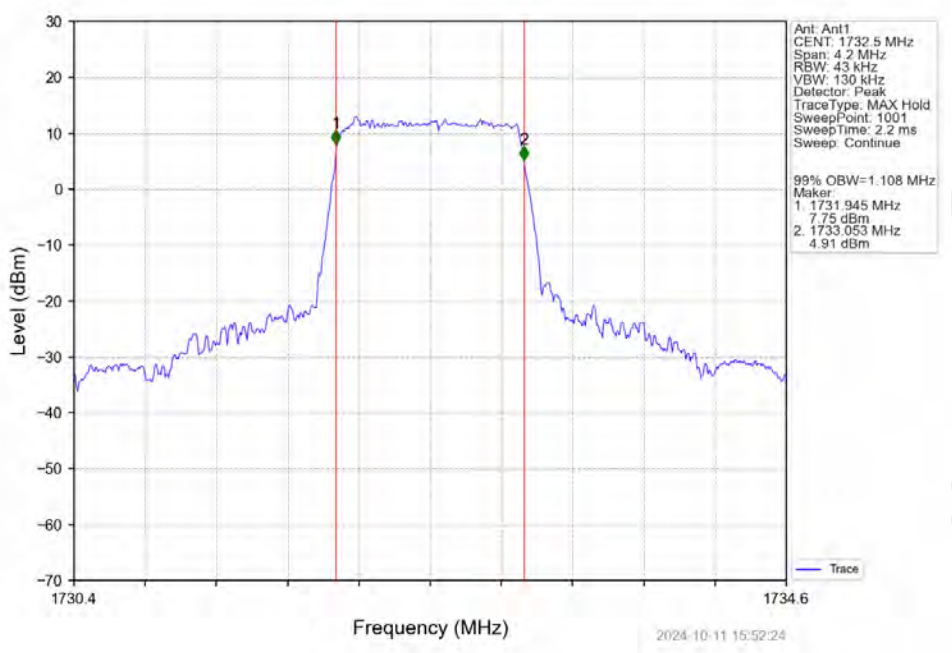
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



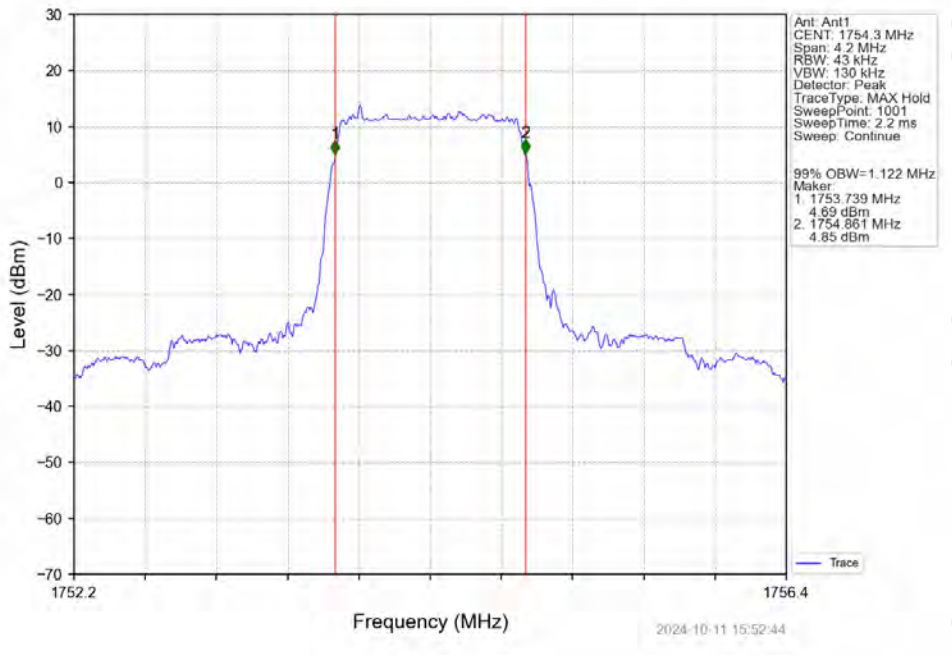
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



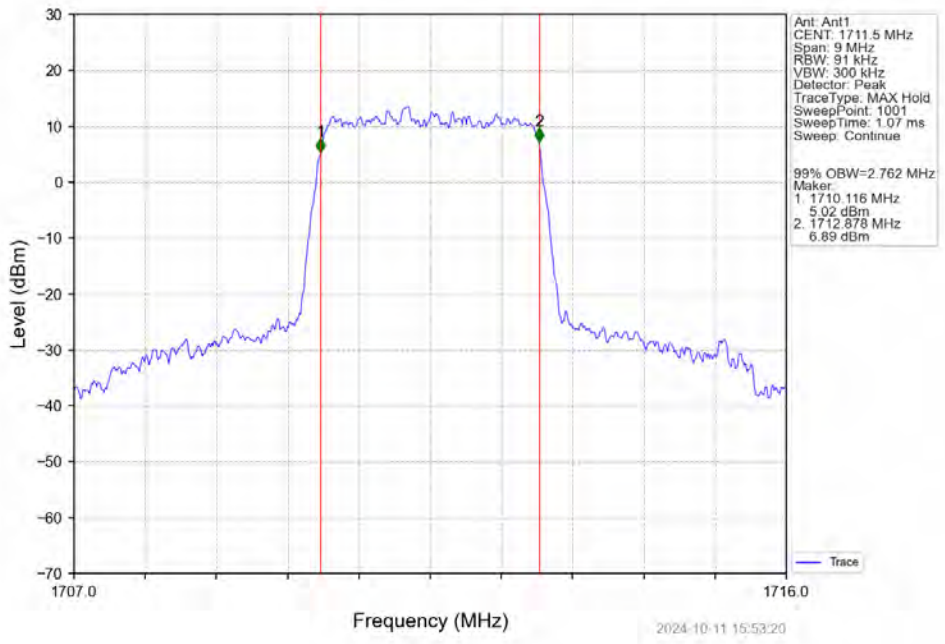
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



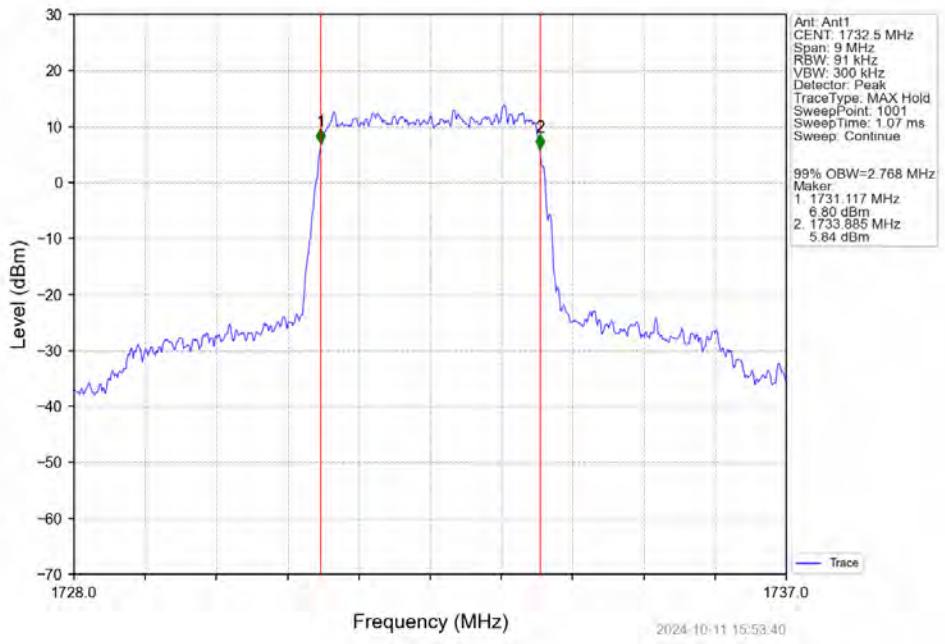
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



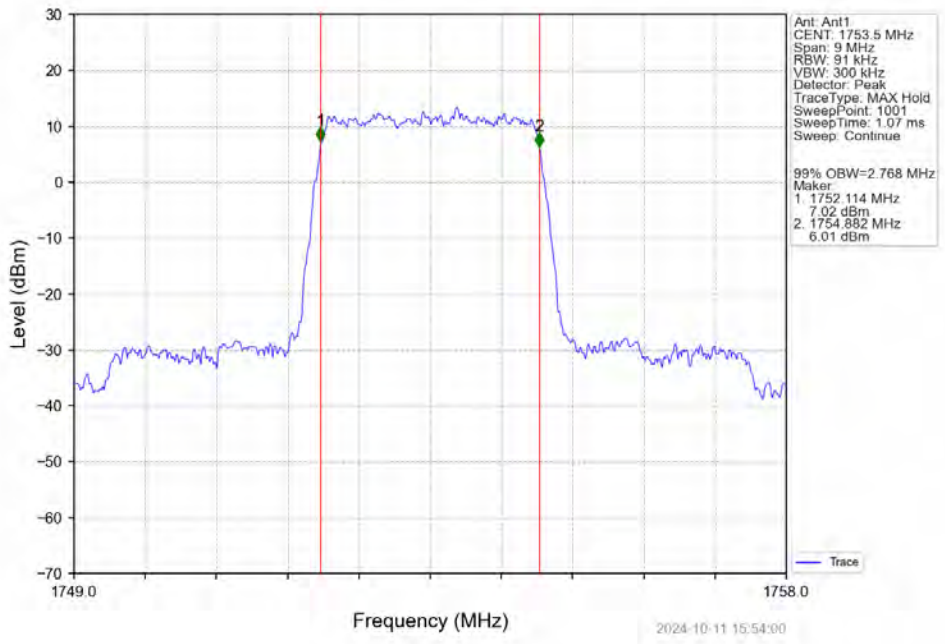
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



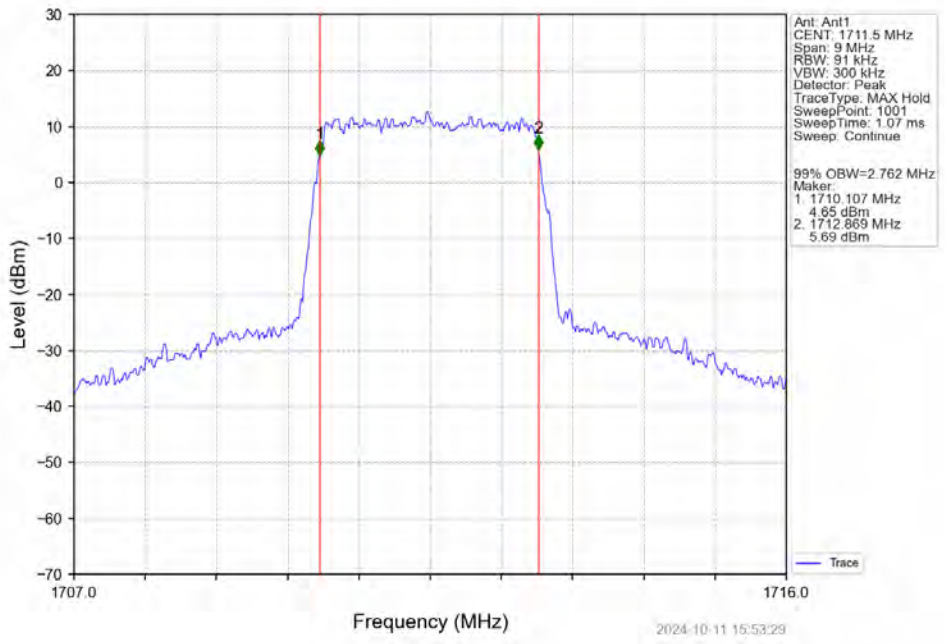
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



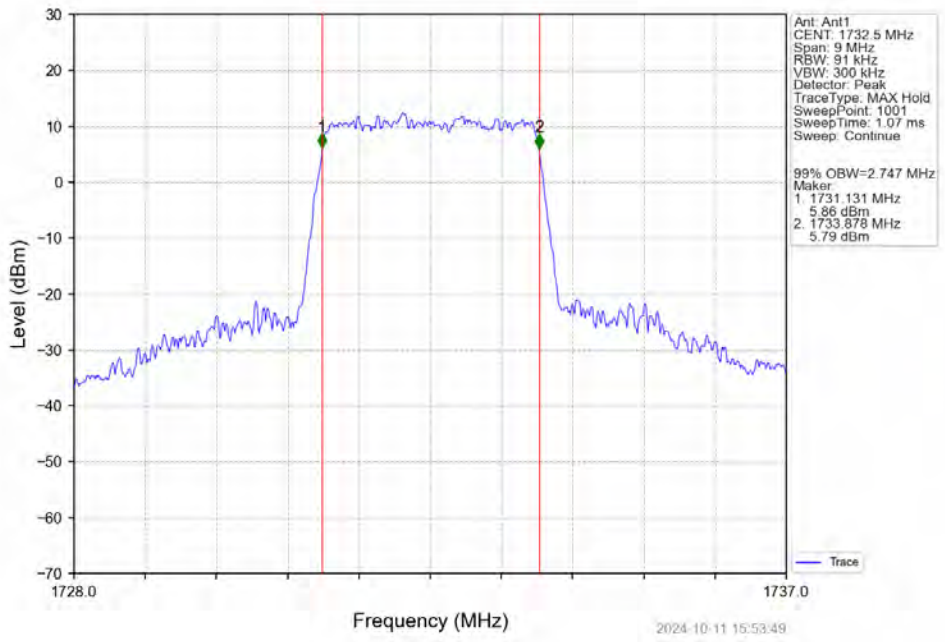
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



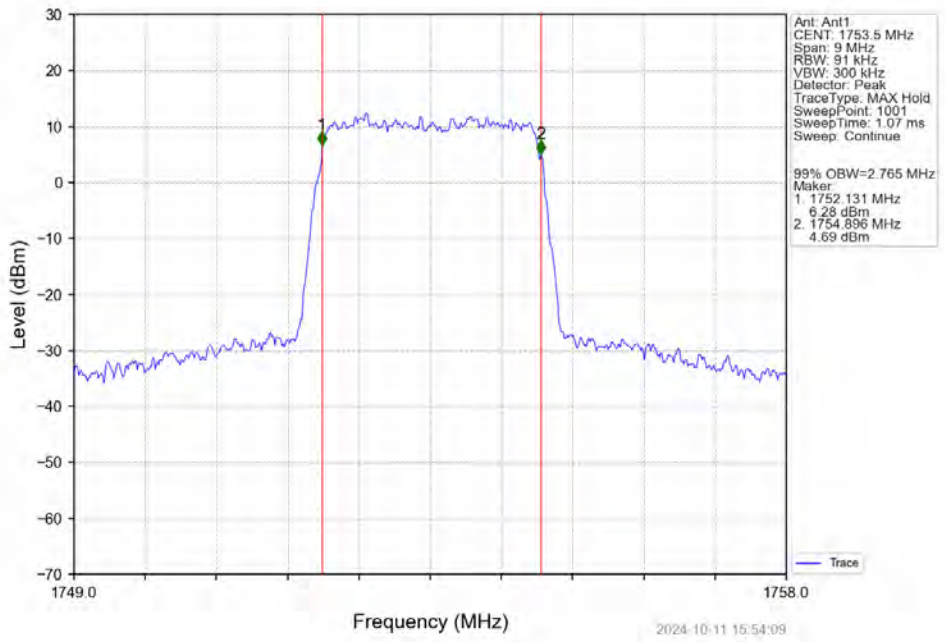
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



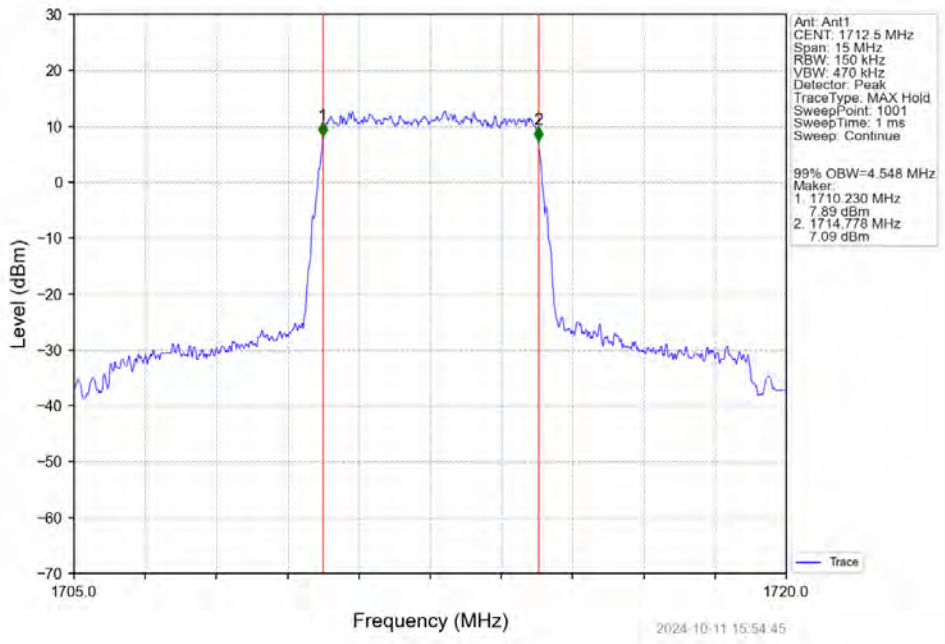
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



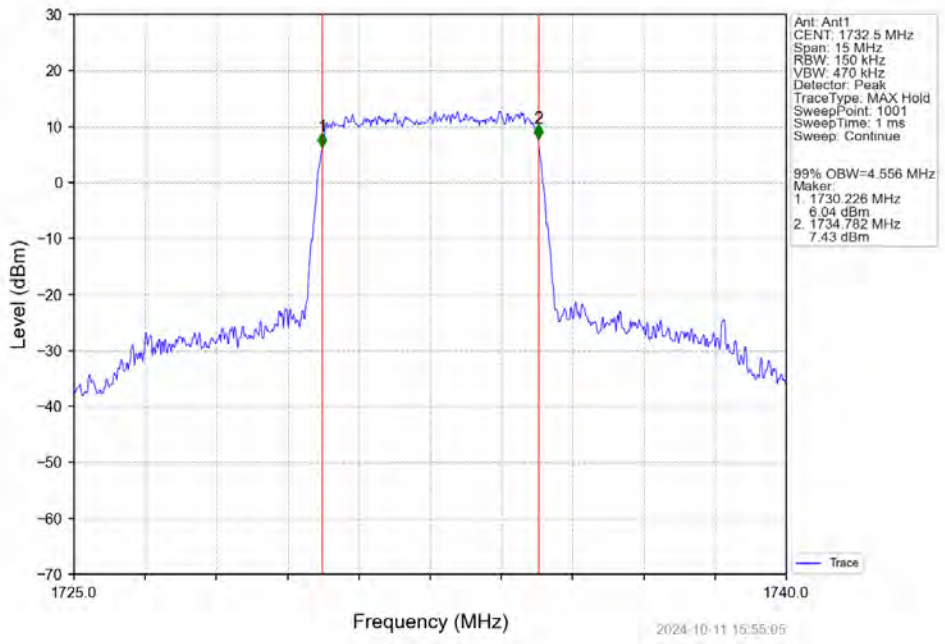
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



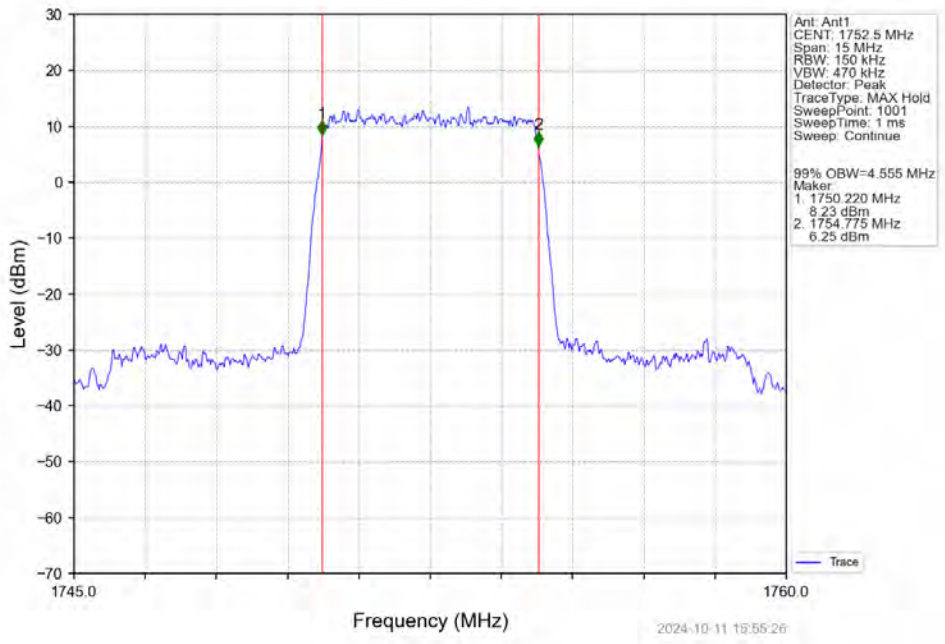
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



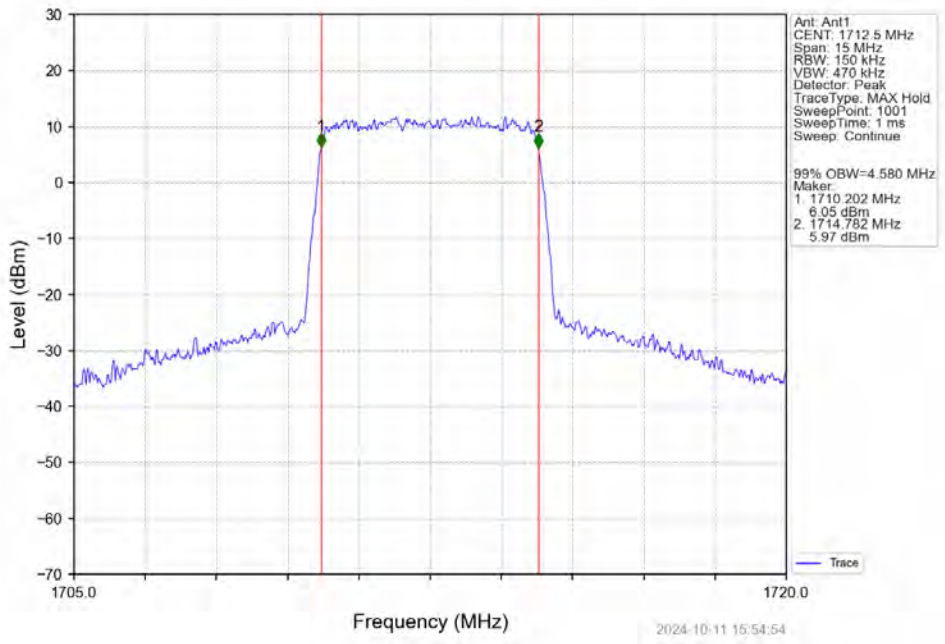
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



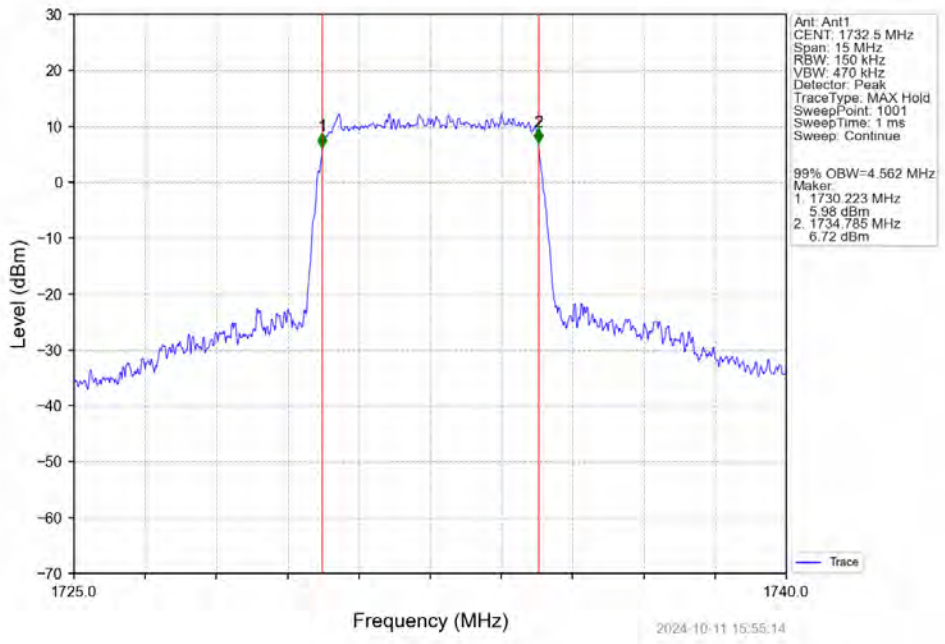
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



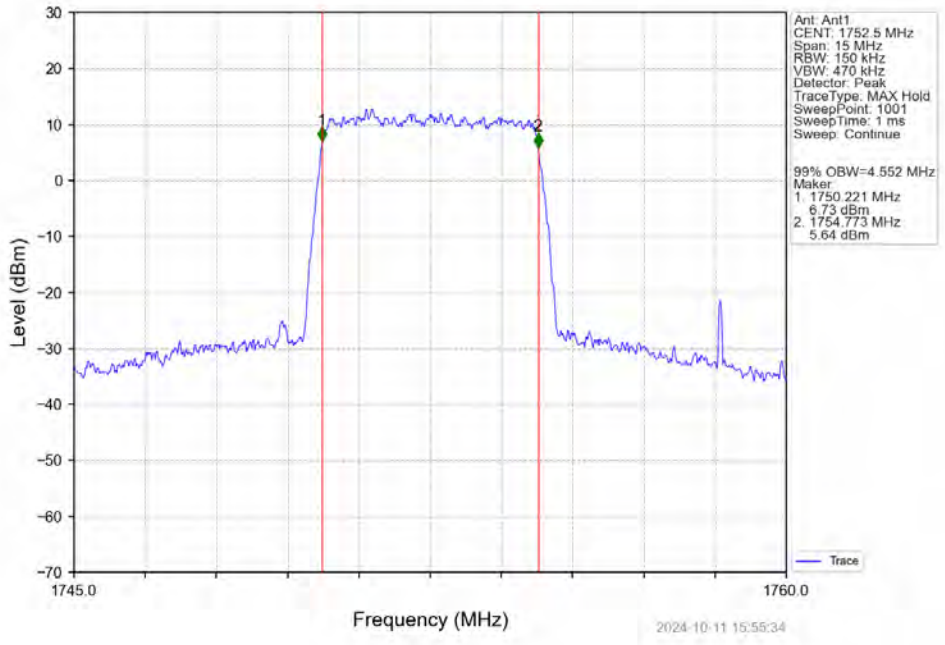
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



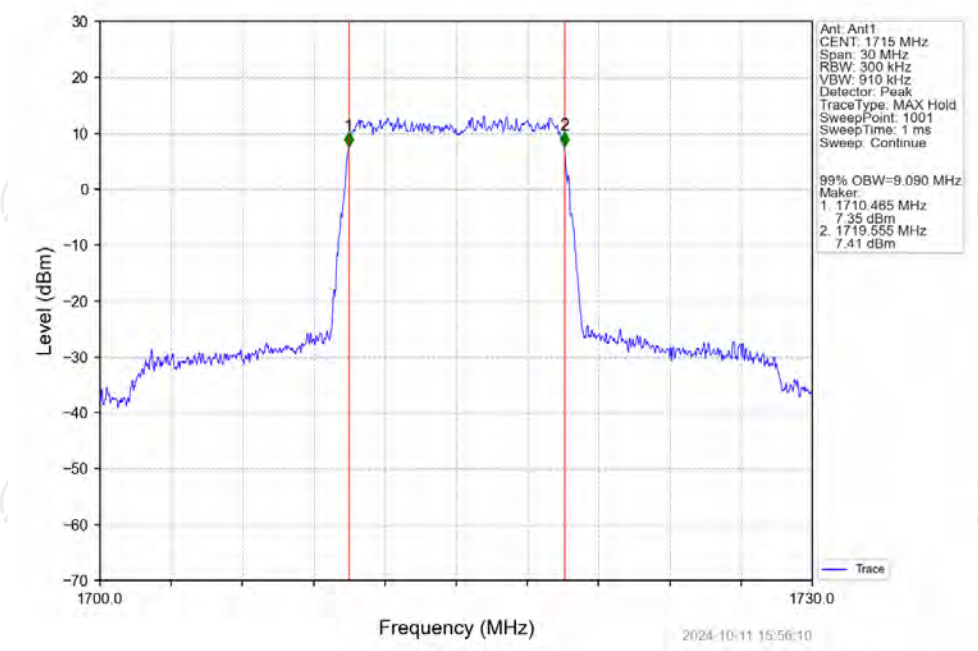
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



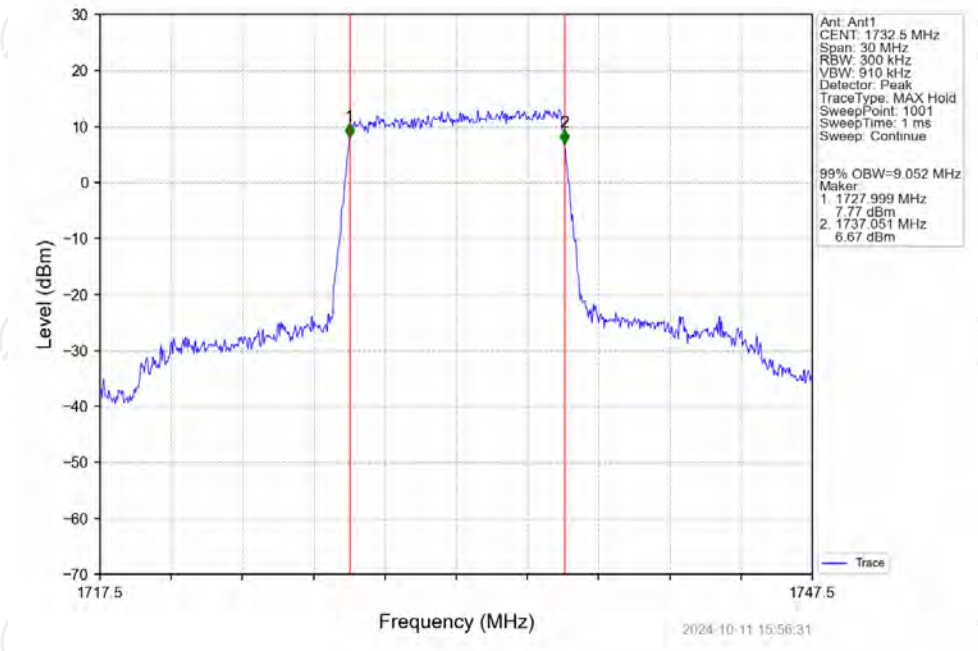
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



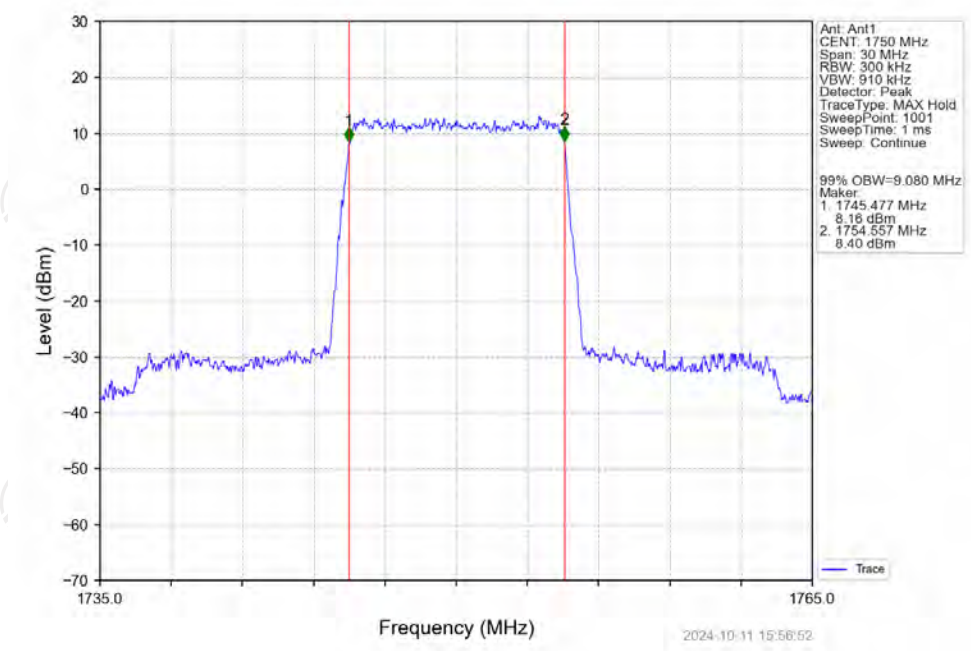
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



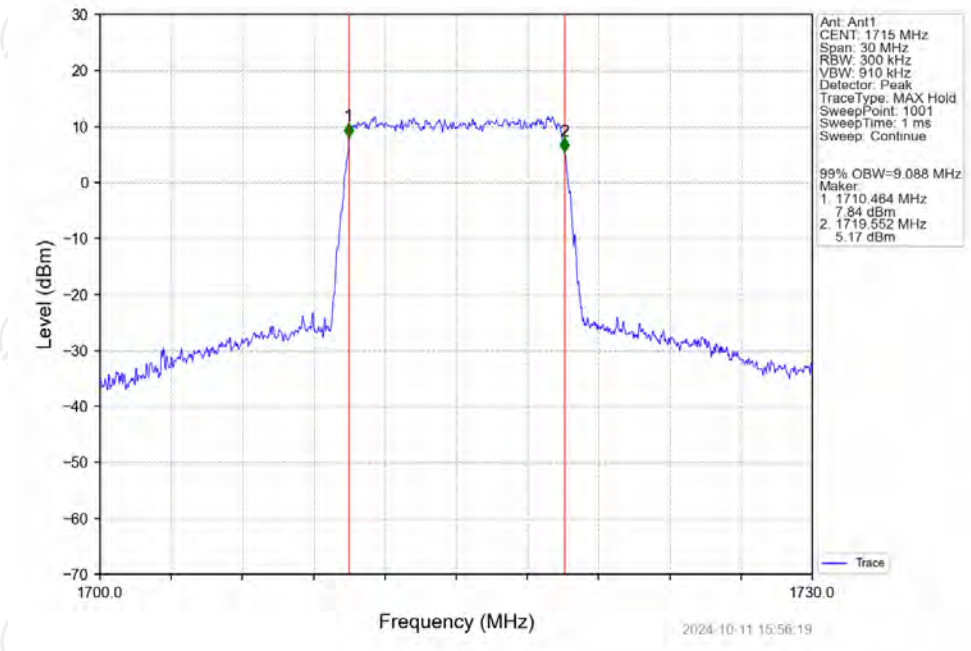
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



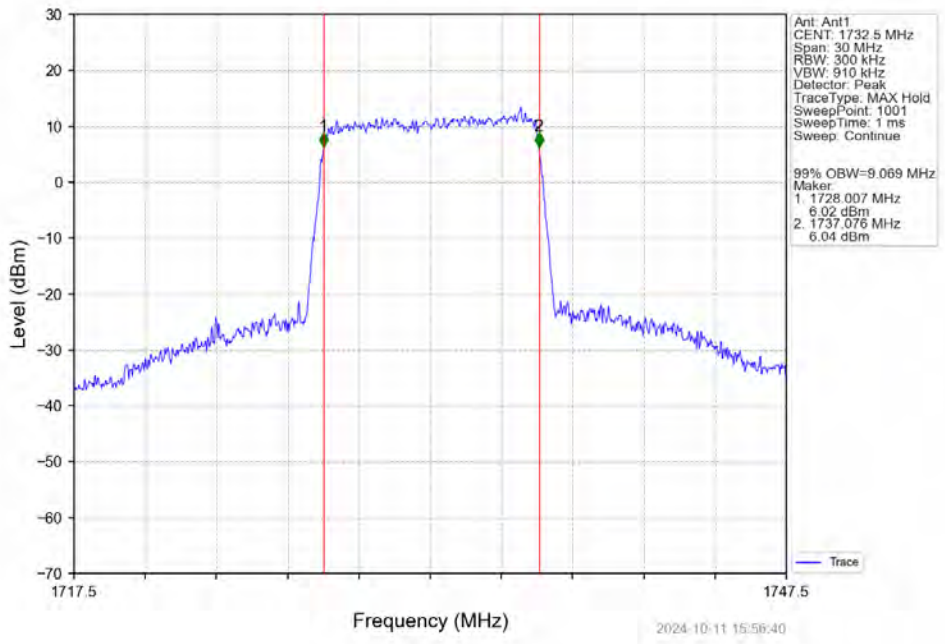
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



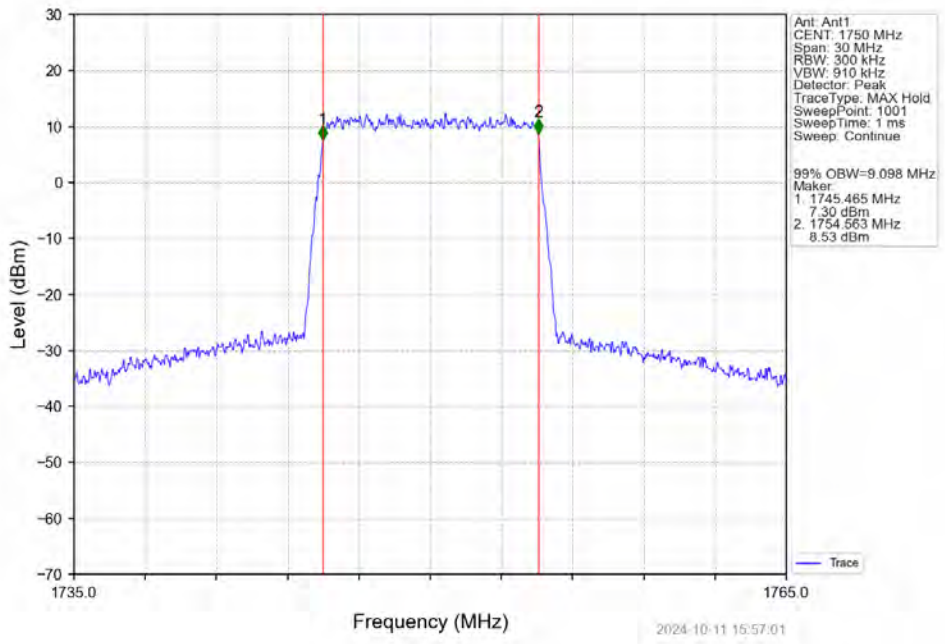
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



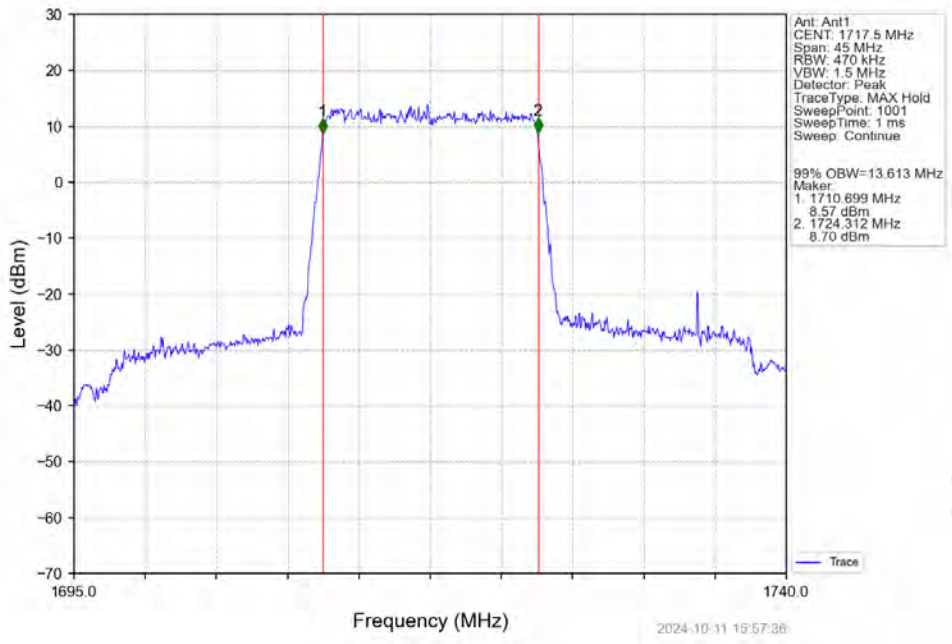
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



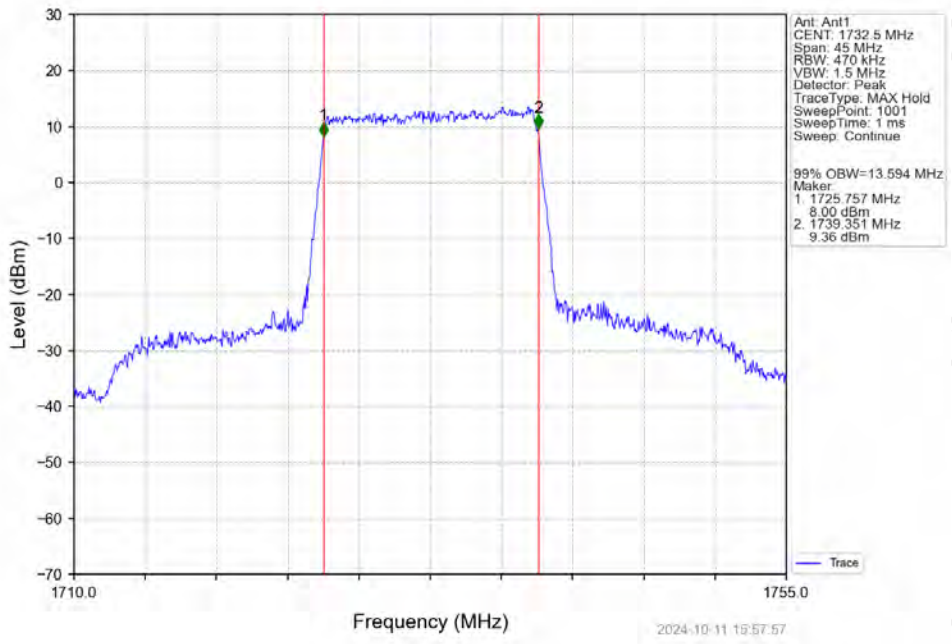
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



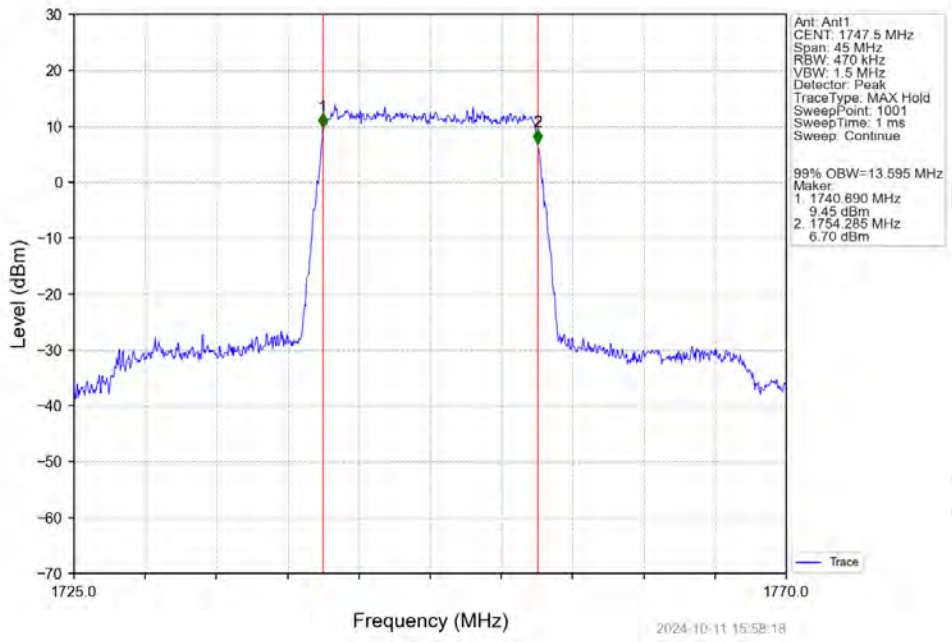
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



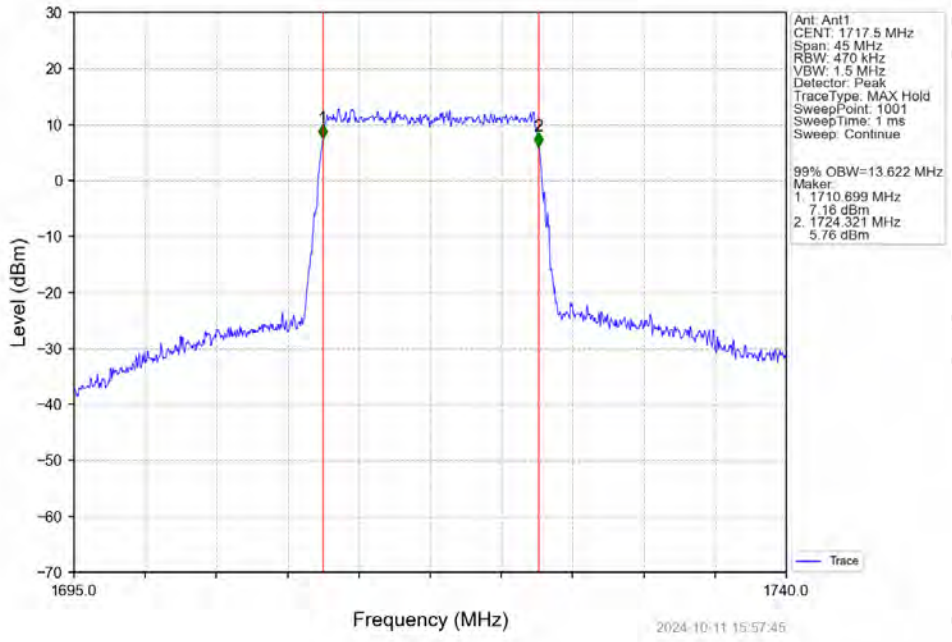
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



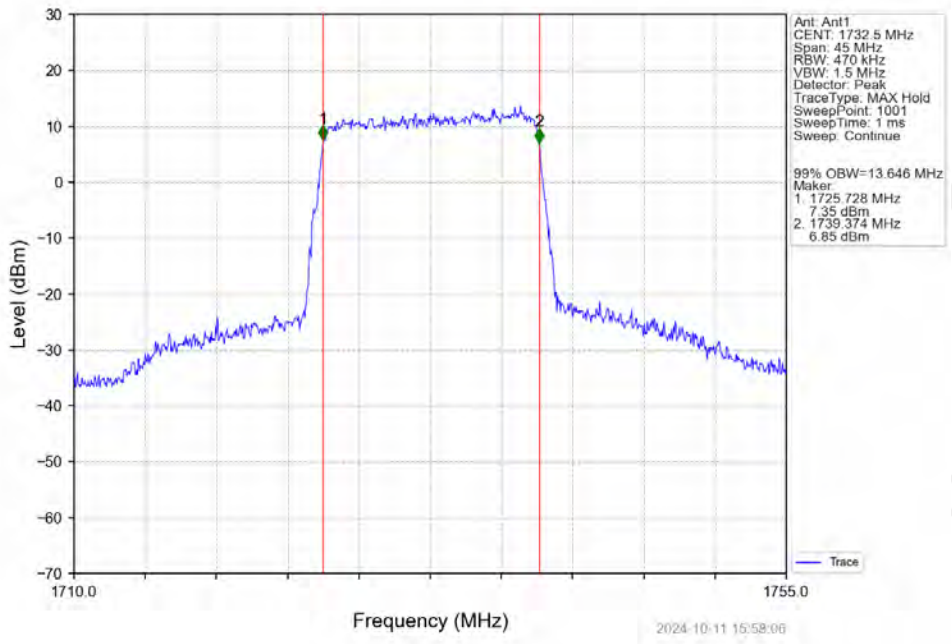
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



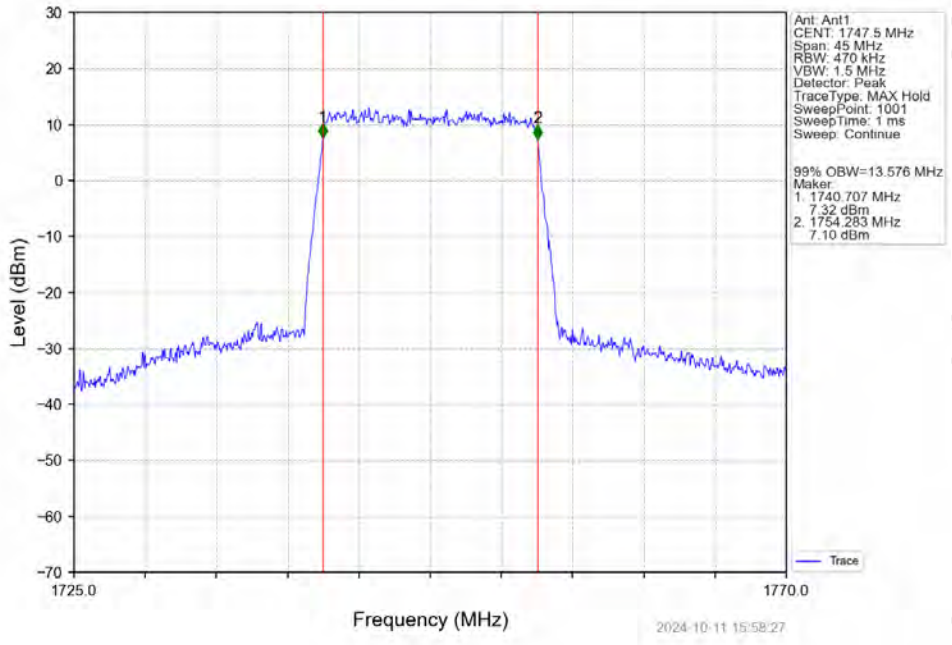
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



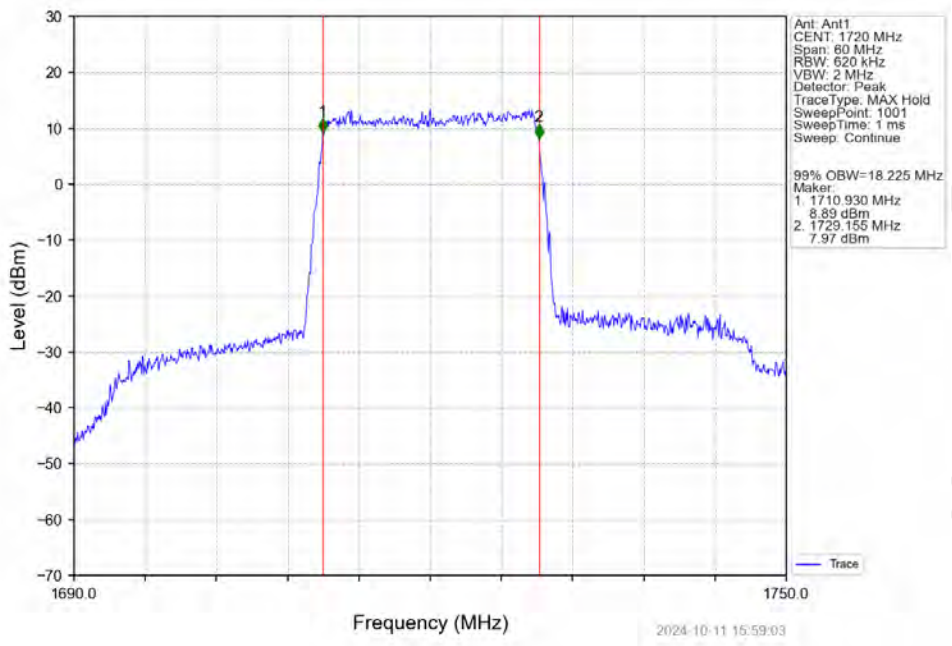
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



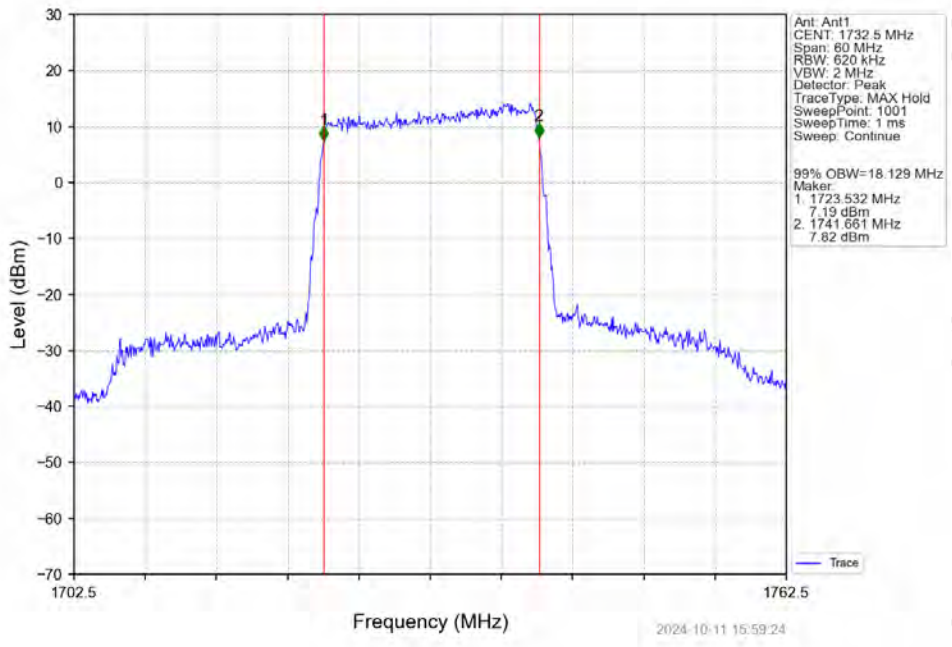
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



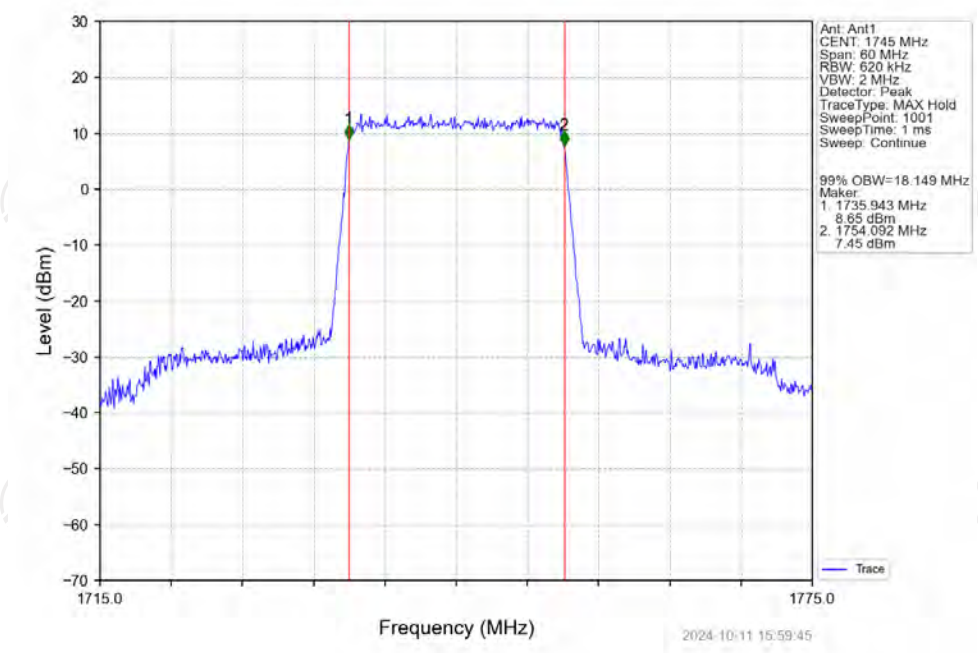
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



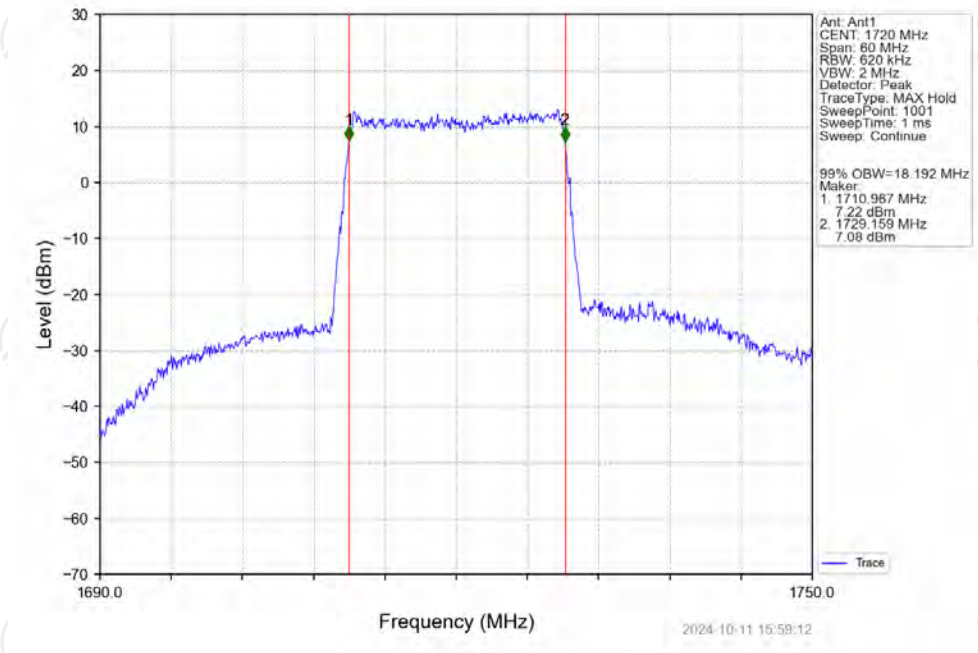
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



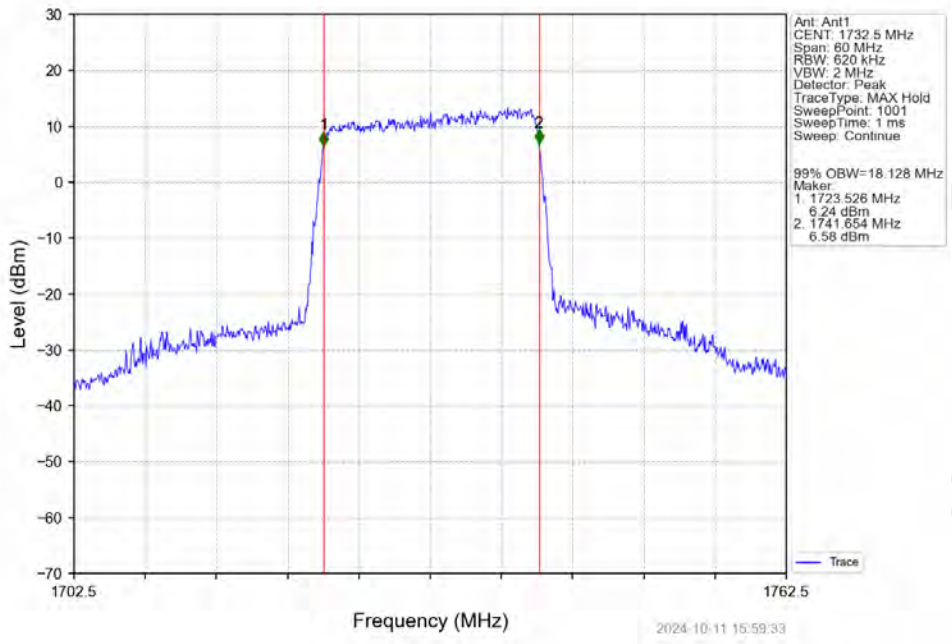
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



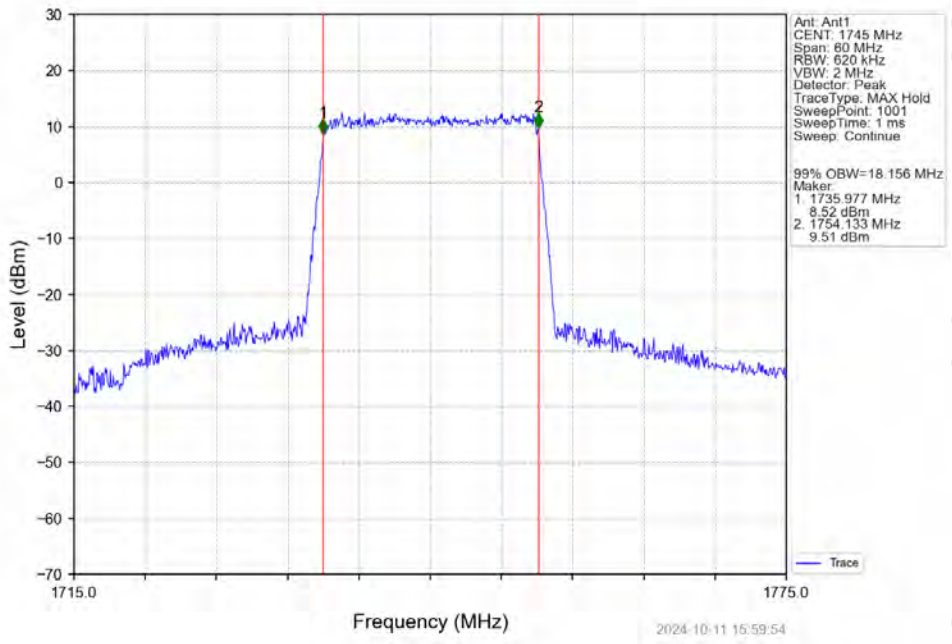
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV

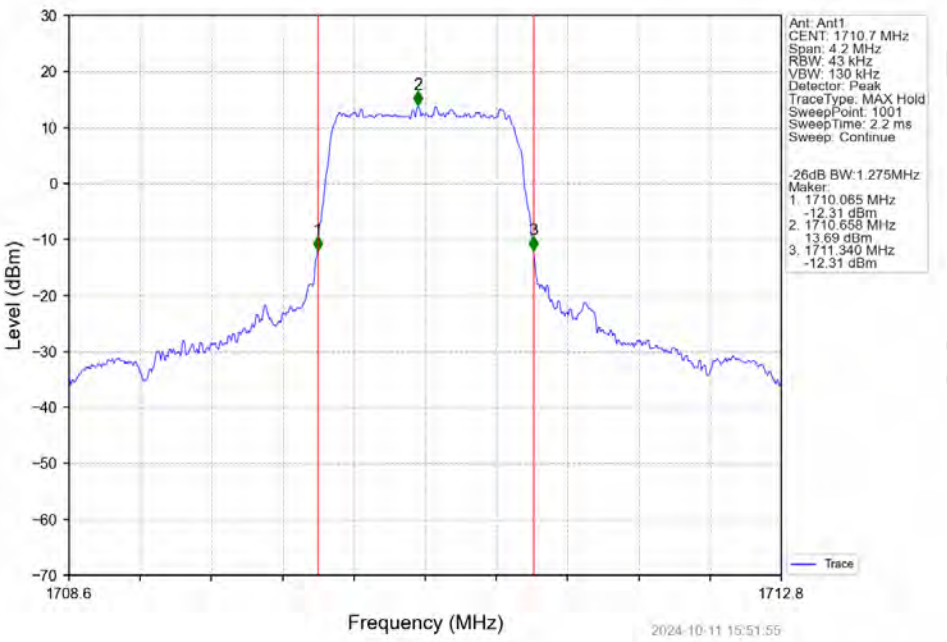


Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

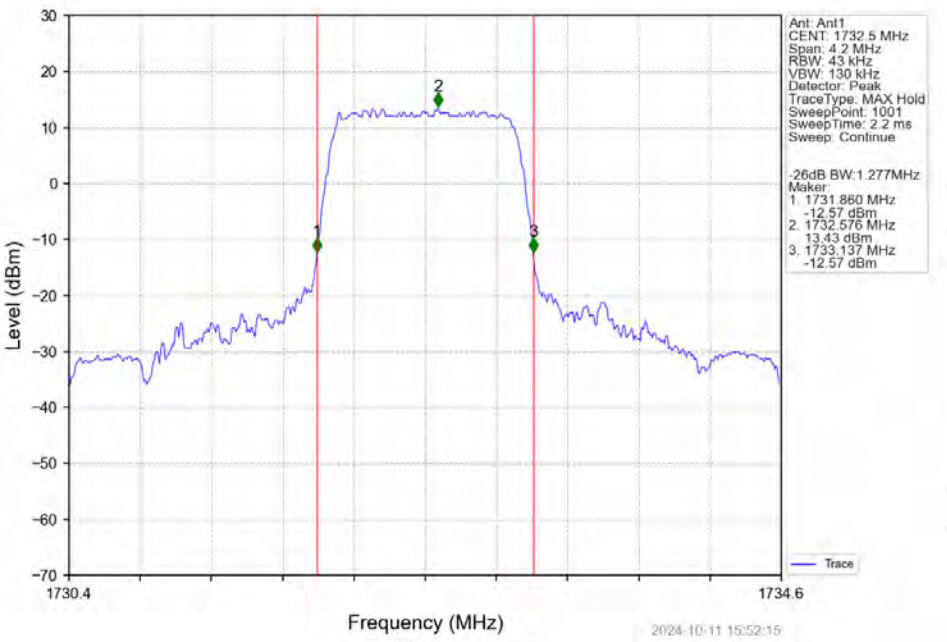


4.2.2 Band4_XDB

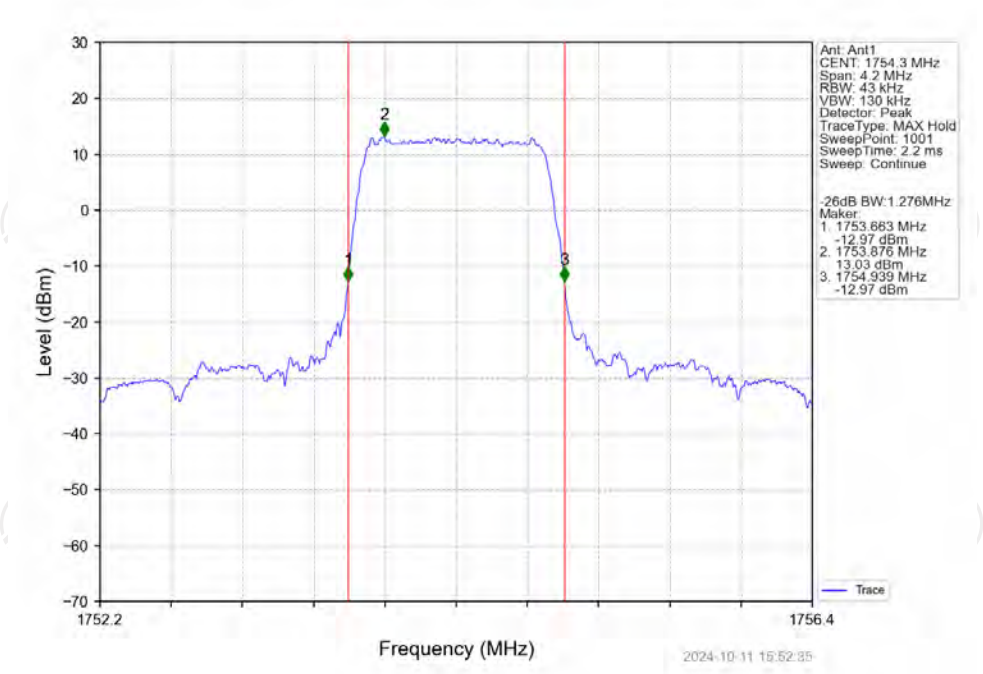
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



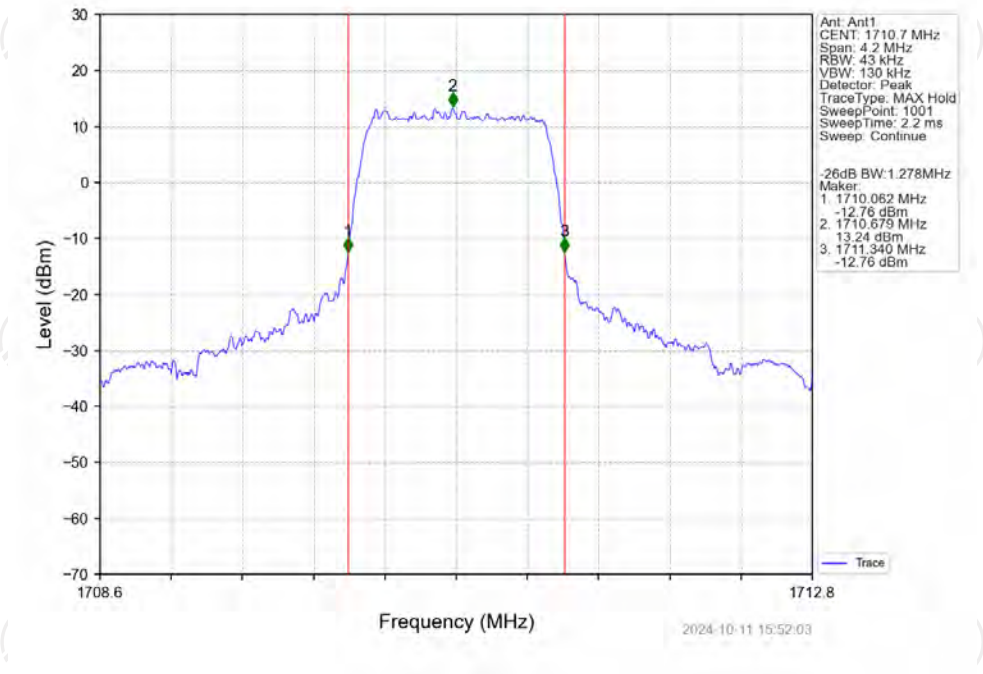
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



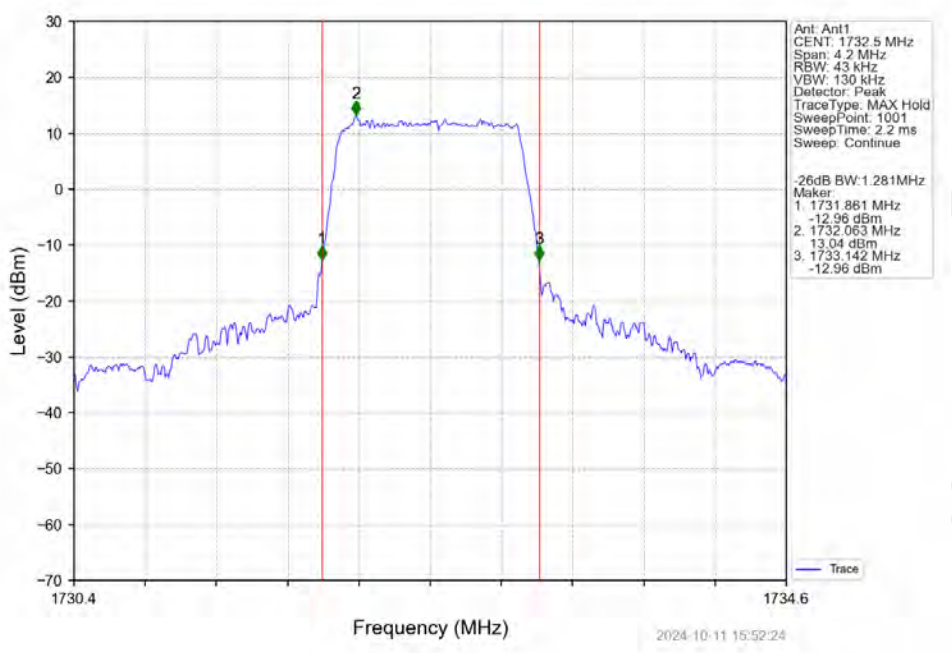
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



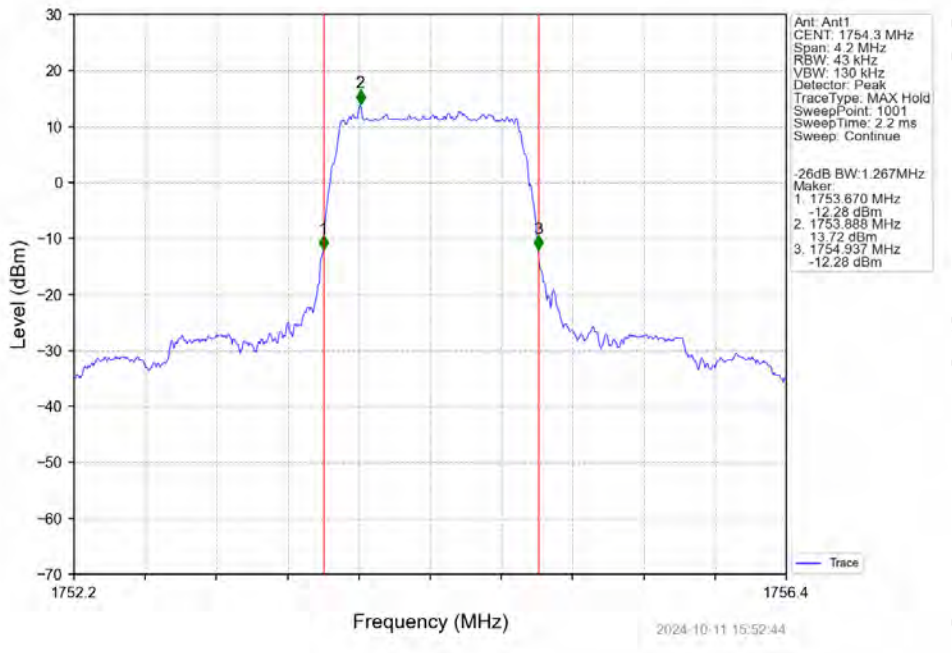
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



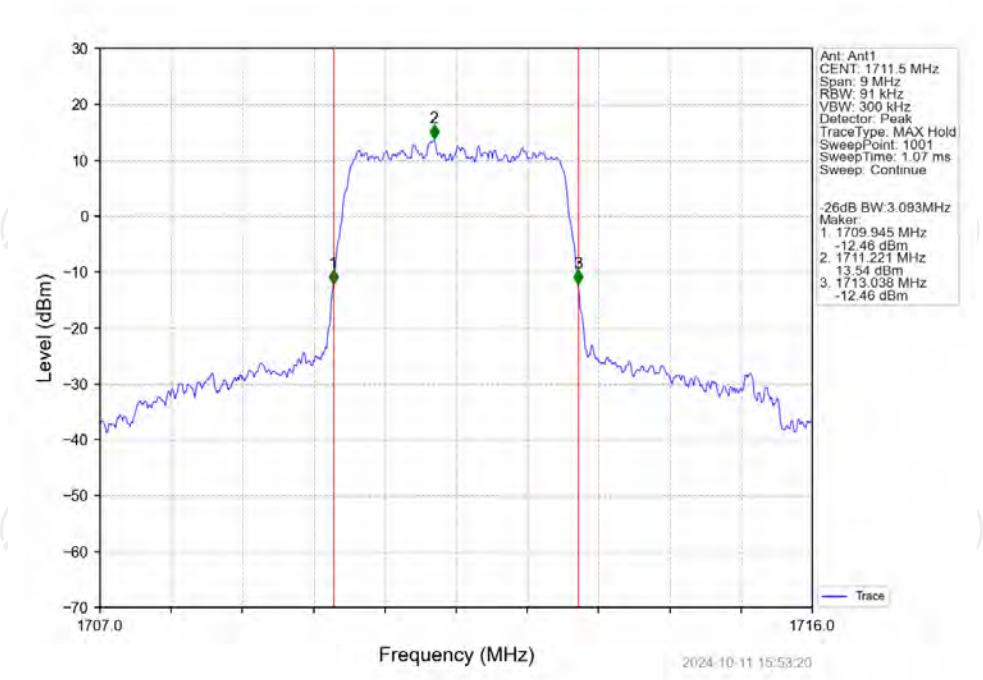
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



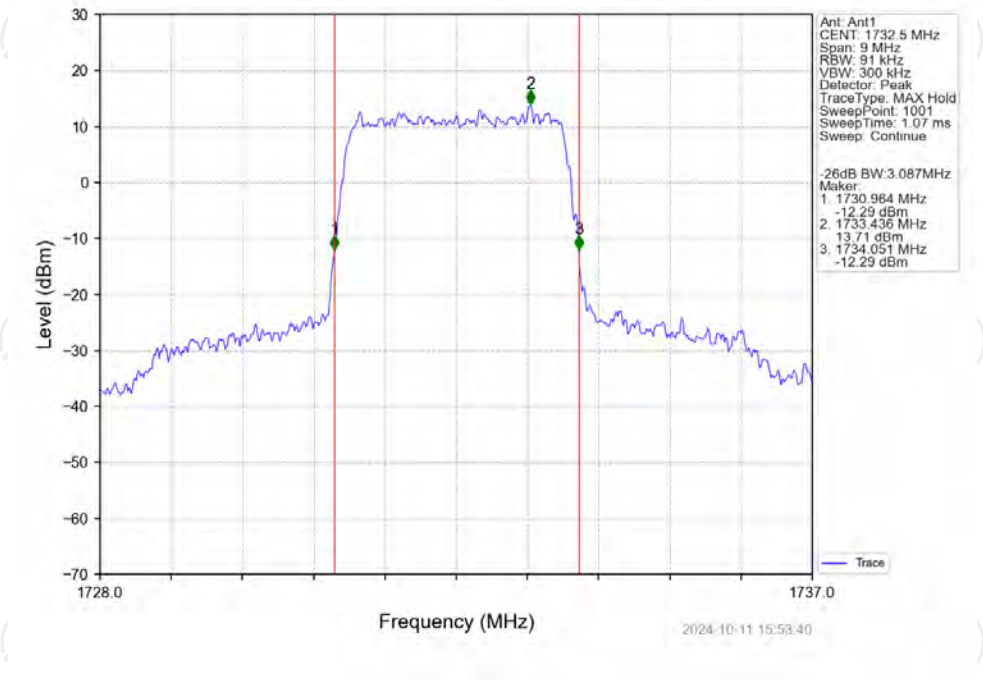
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



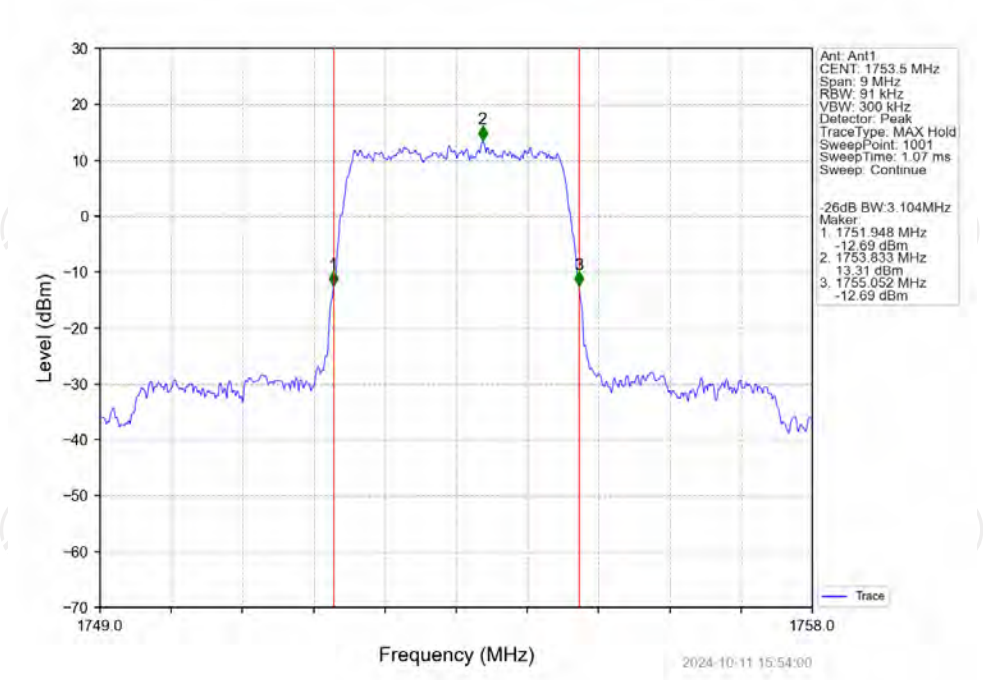
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



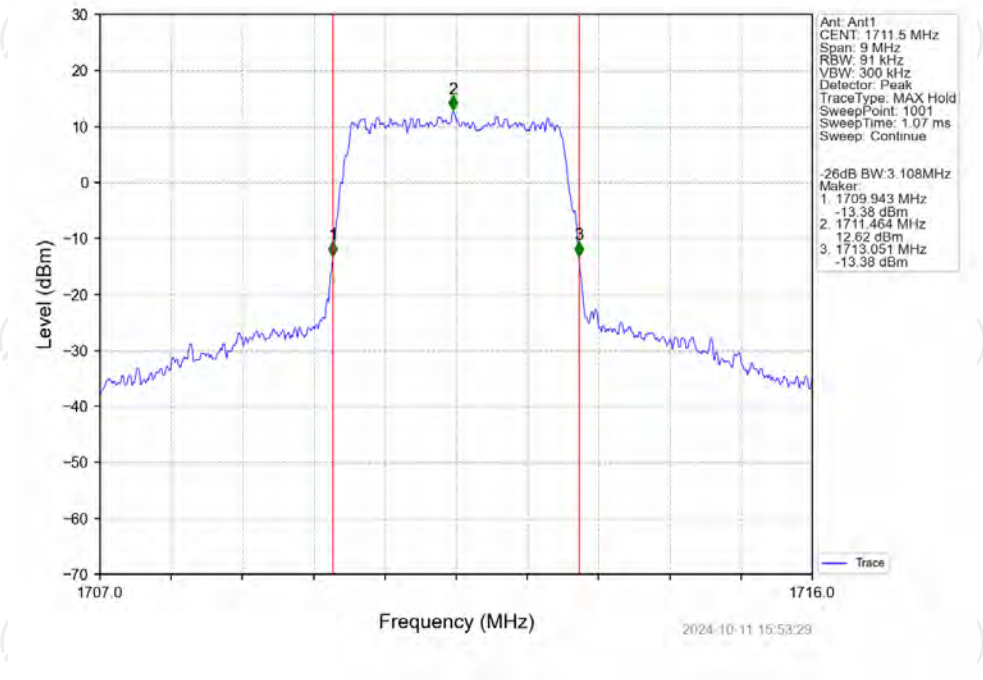
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



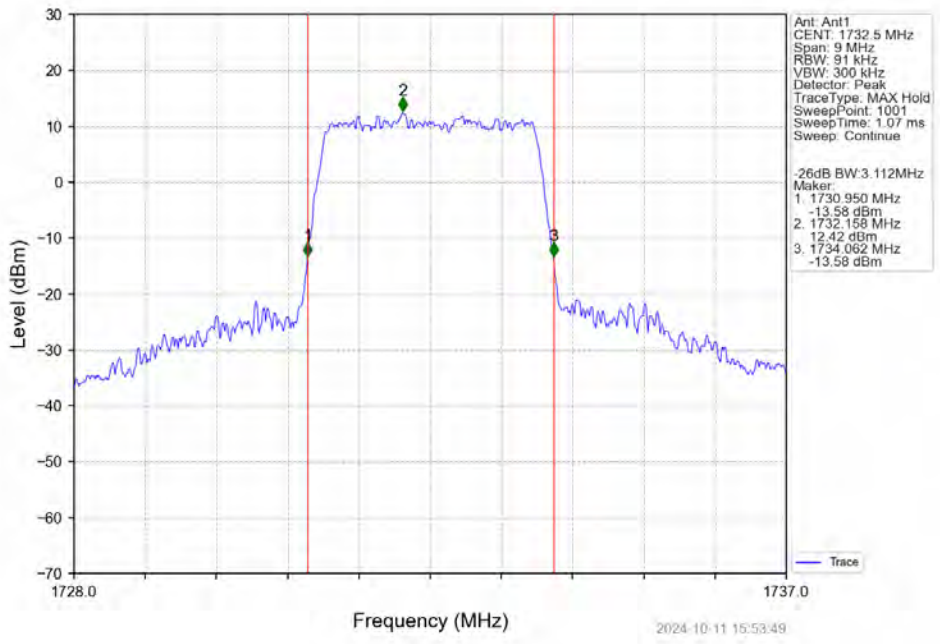
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



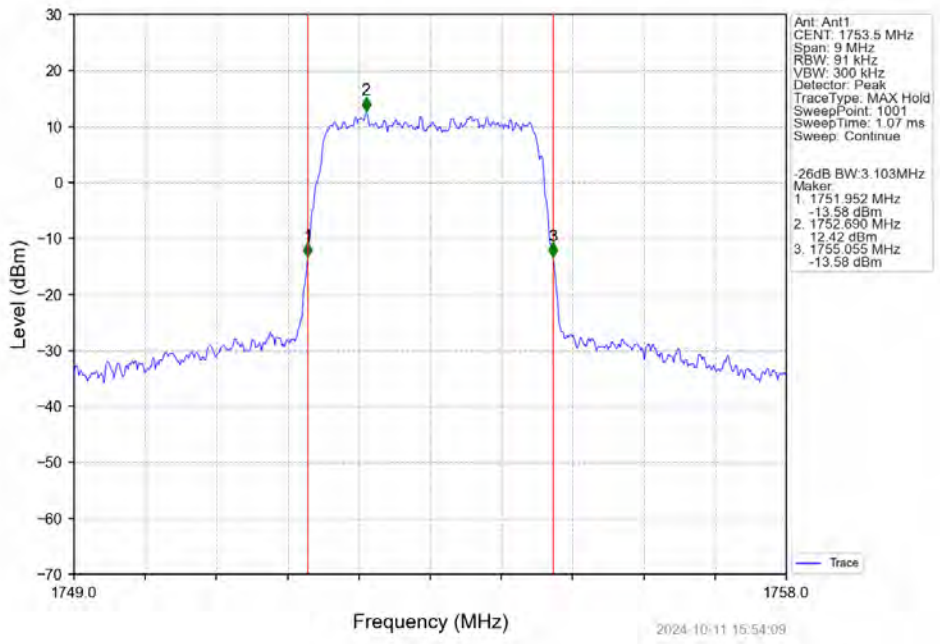
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



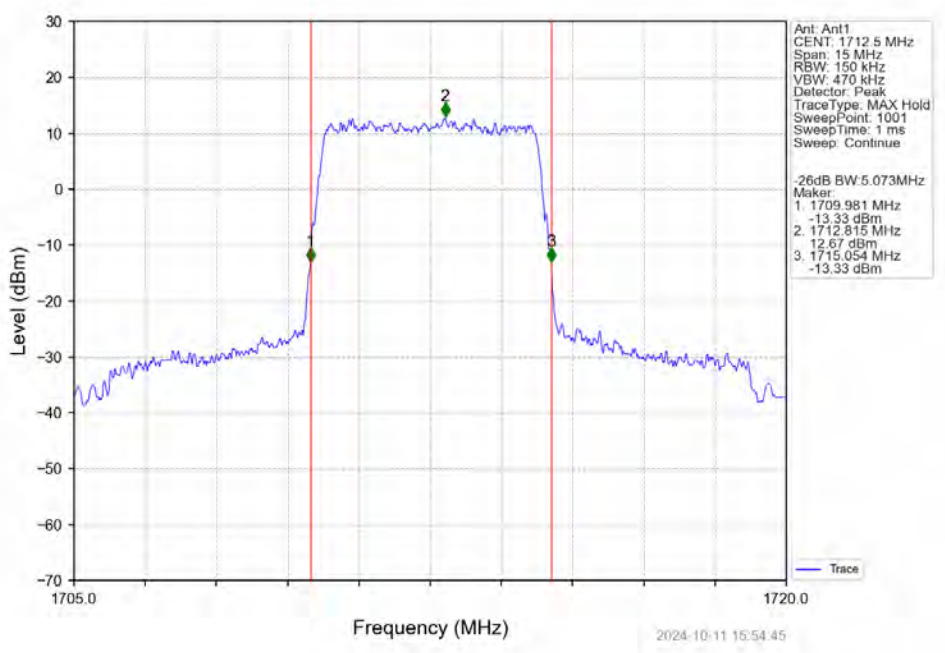
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



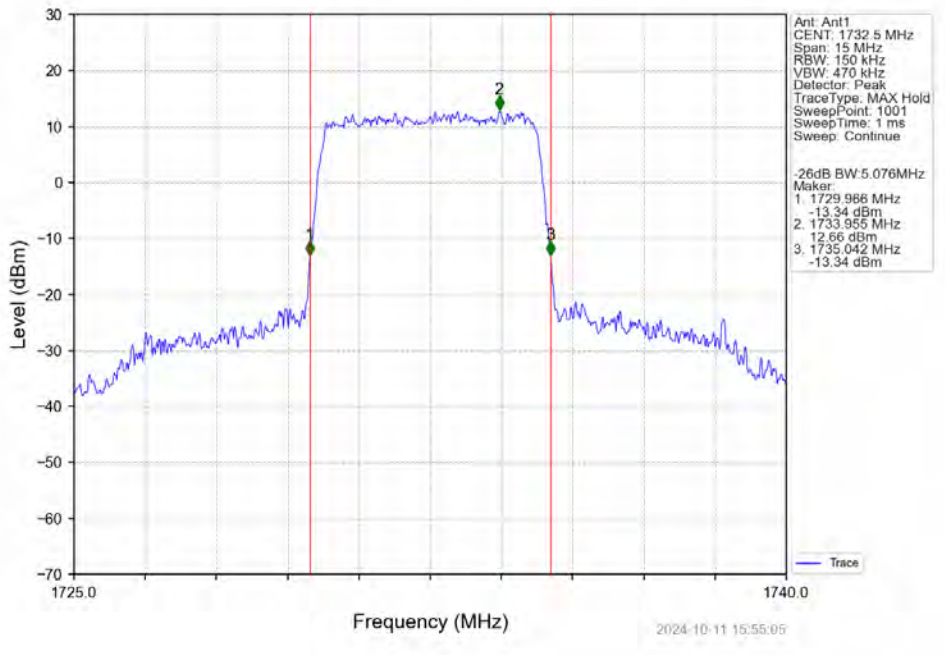
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



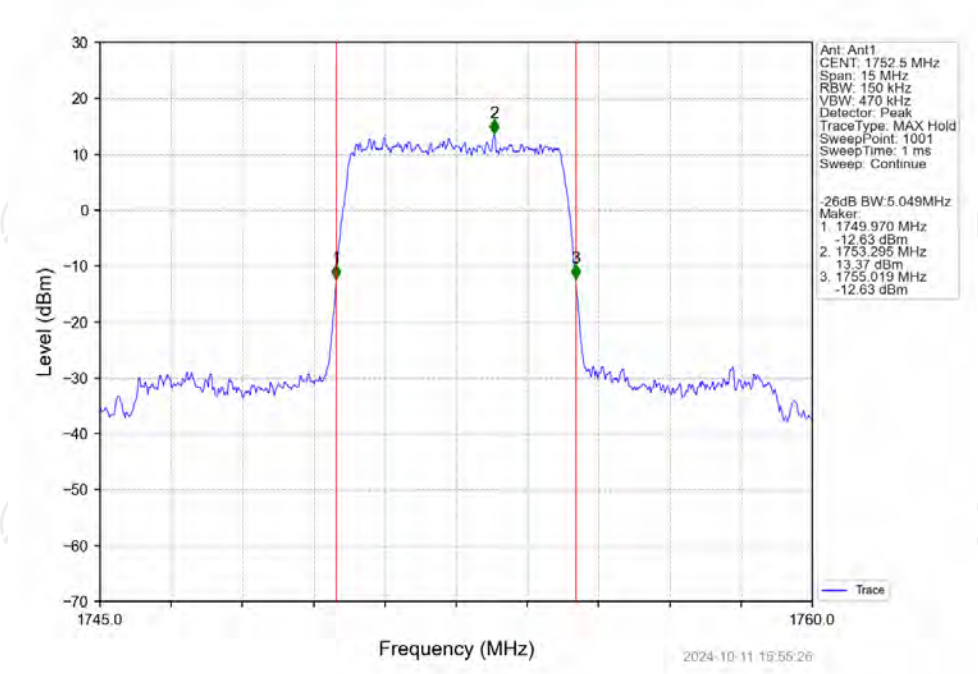
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



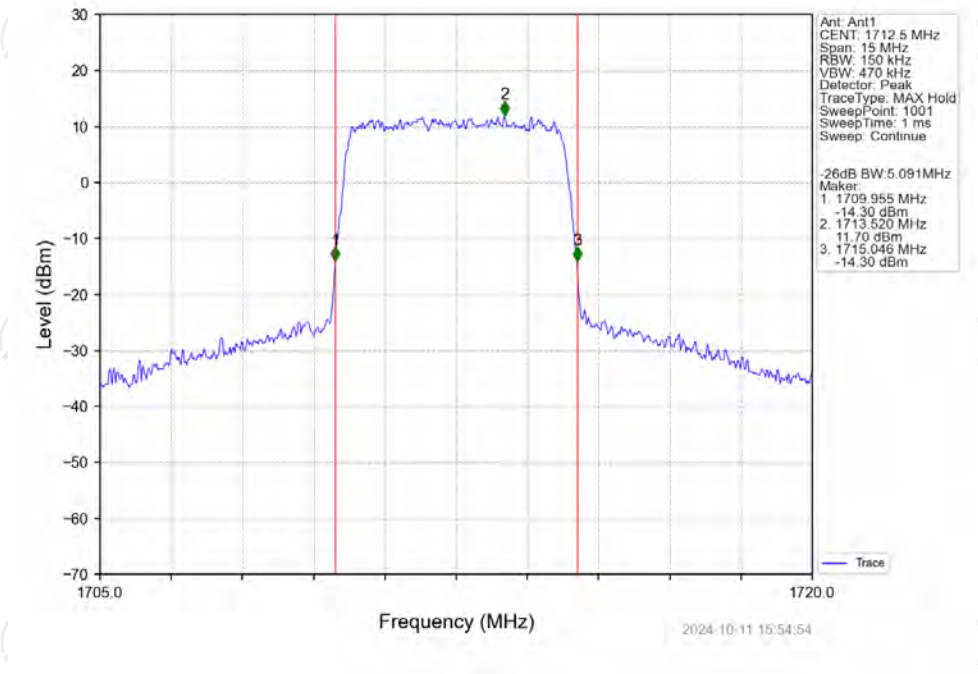
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



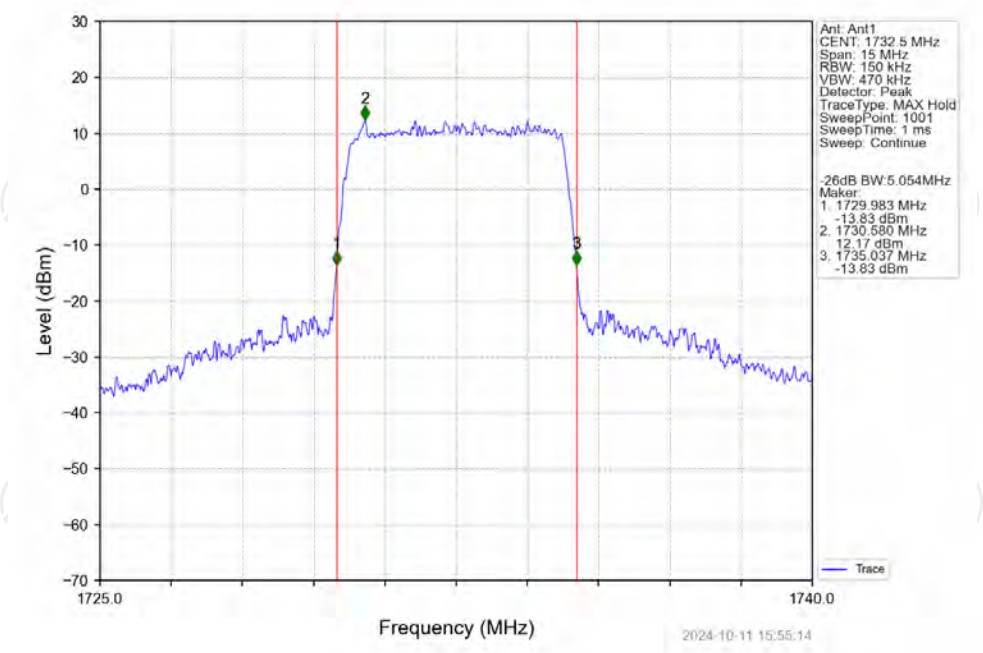
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



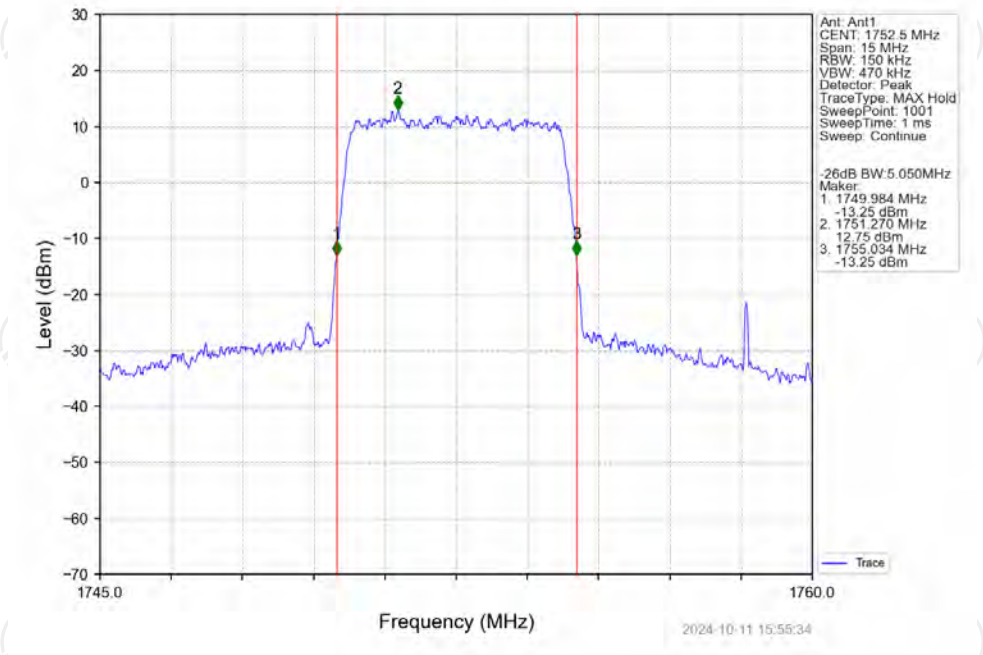
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



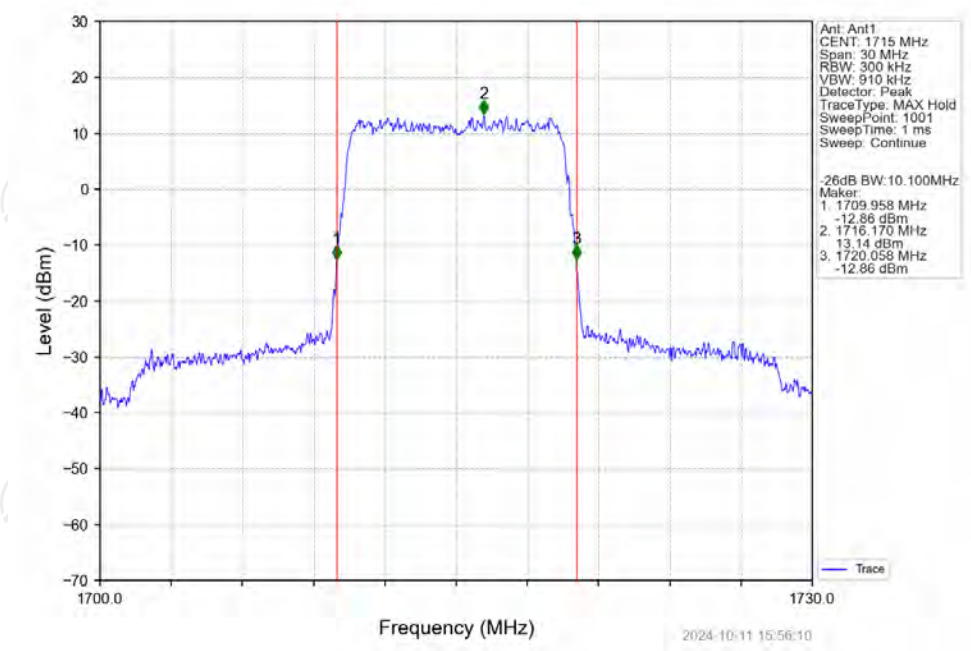
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



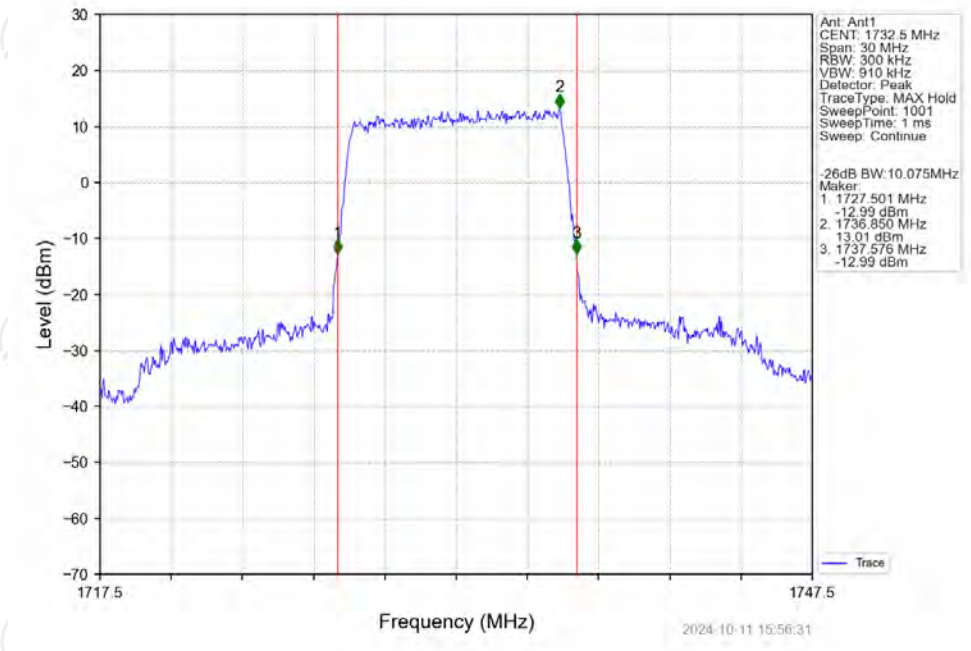
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



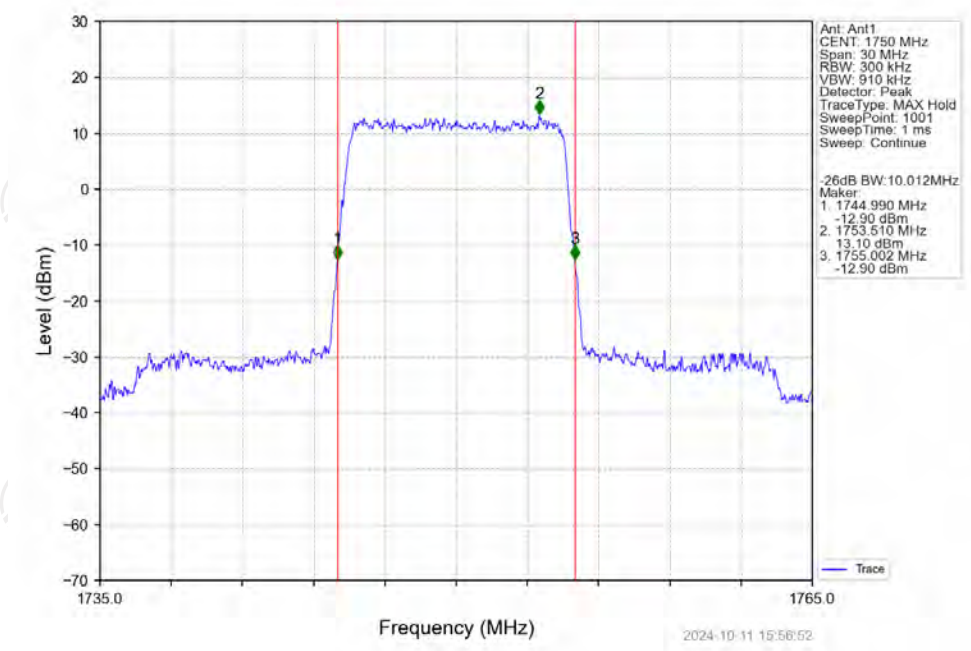
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



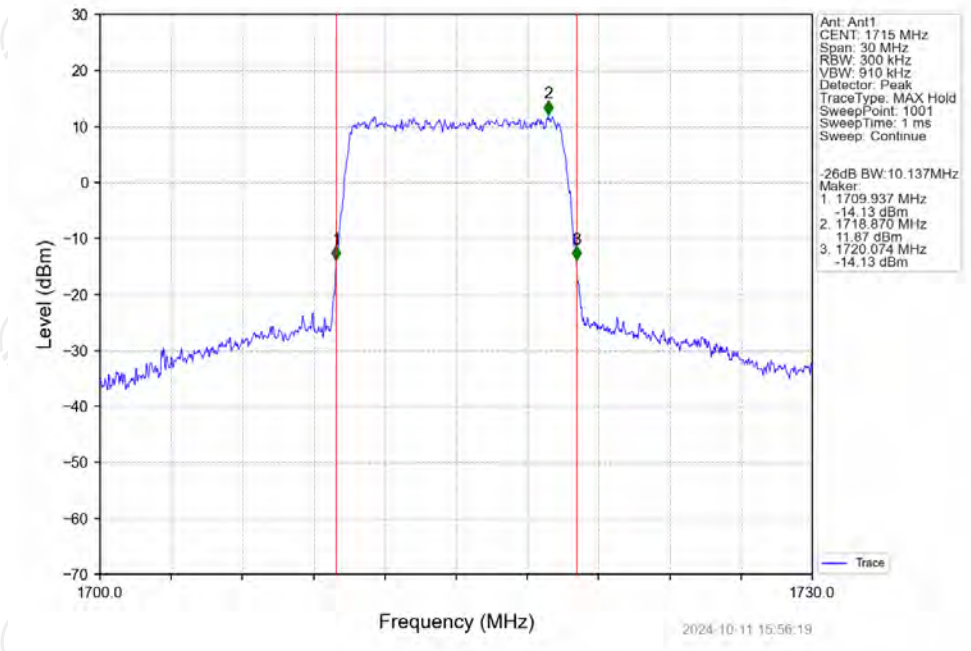
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



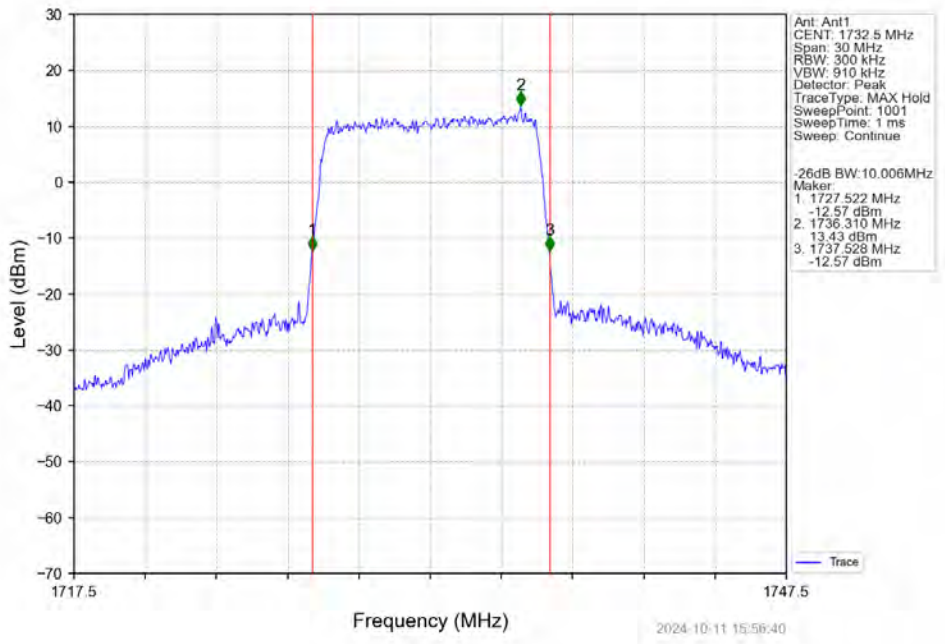
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



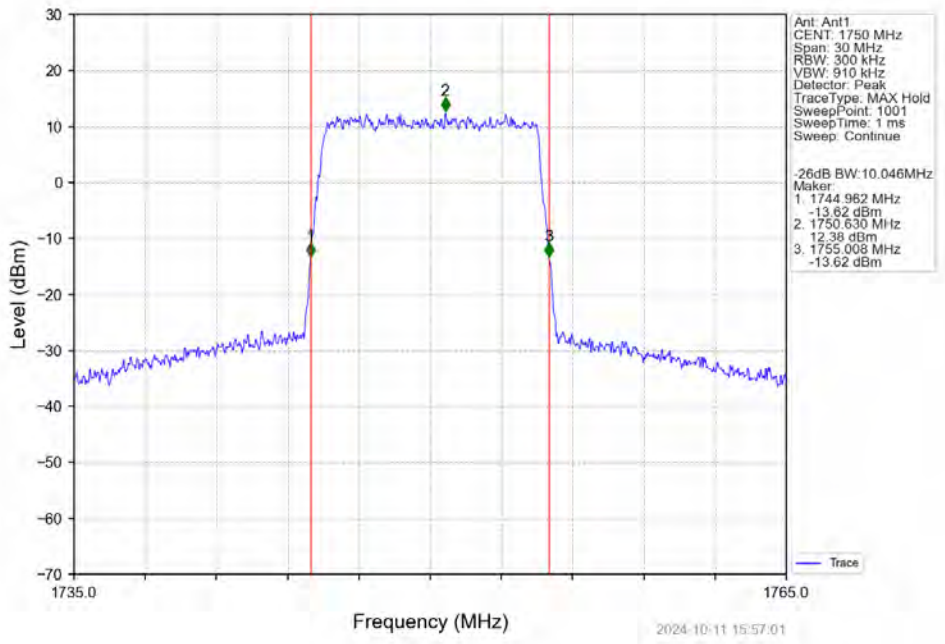
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



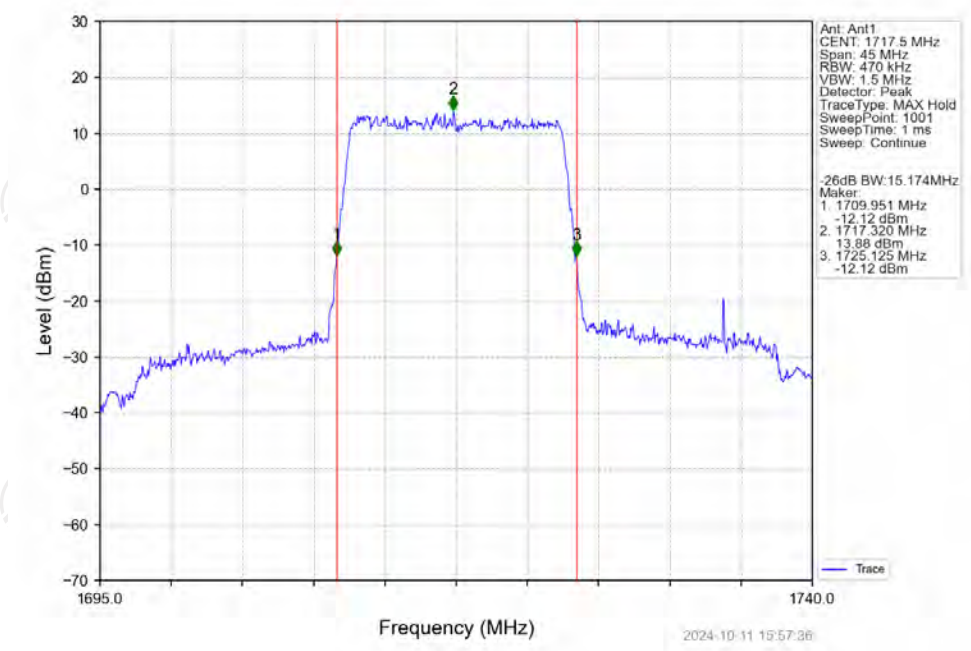
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



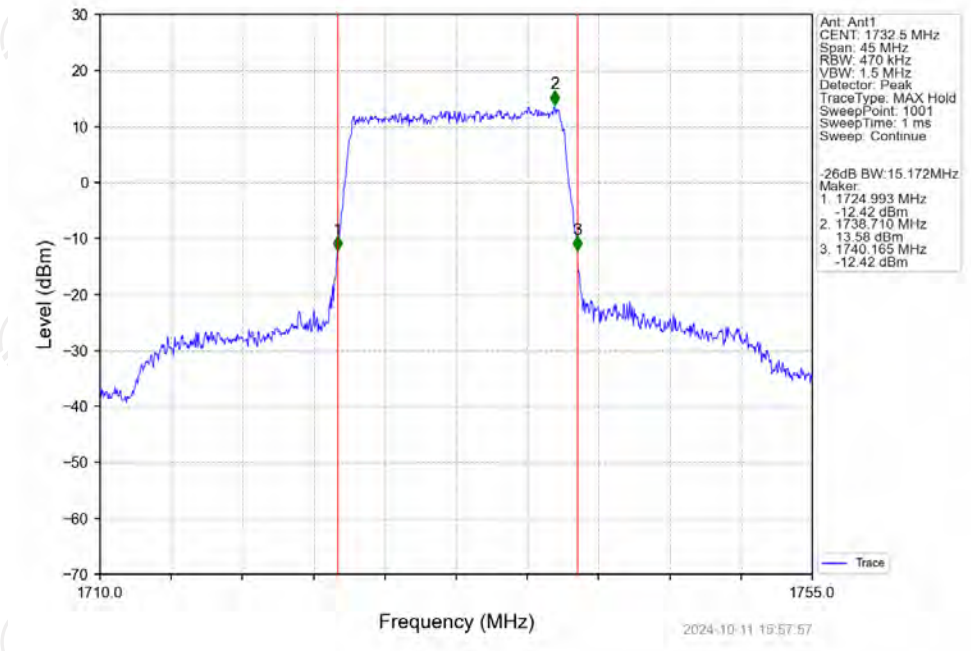
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



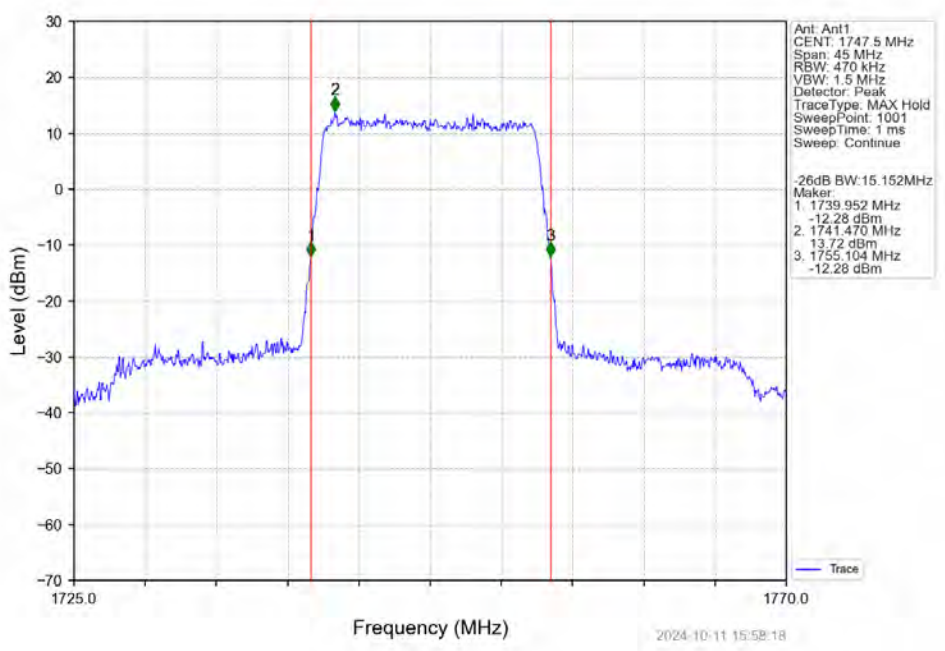
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



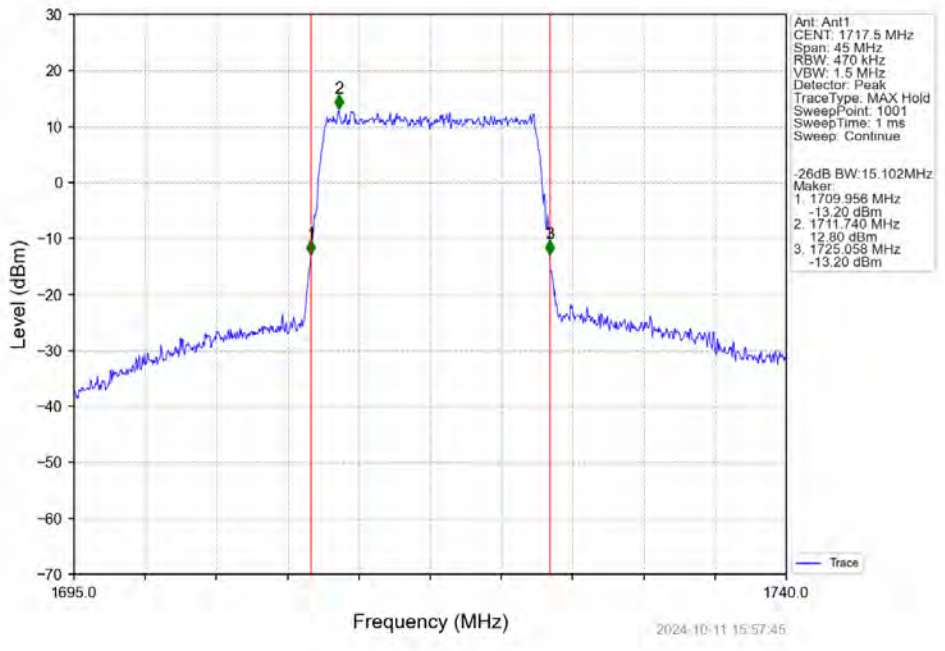
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



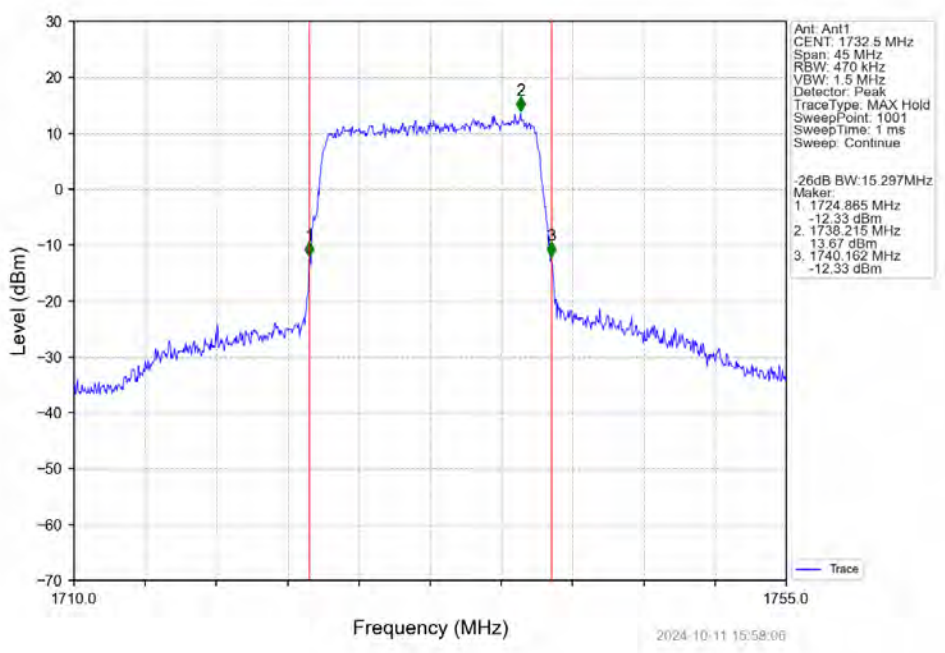
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



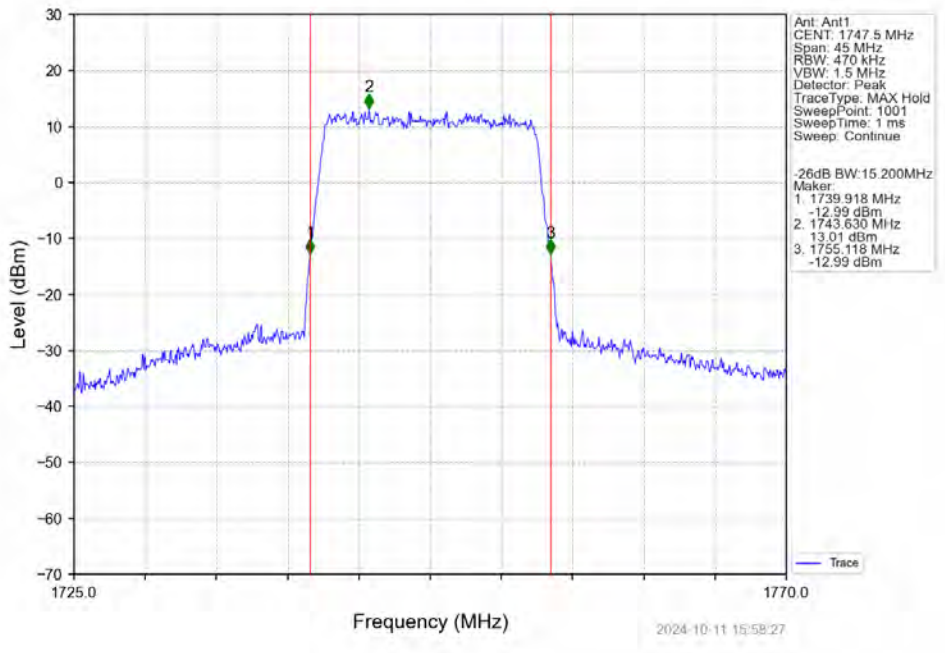
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



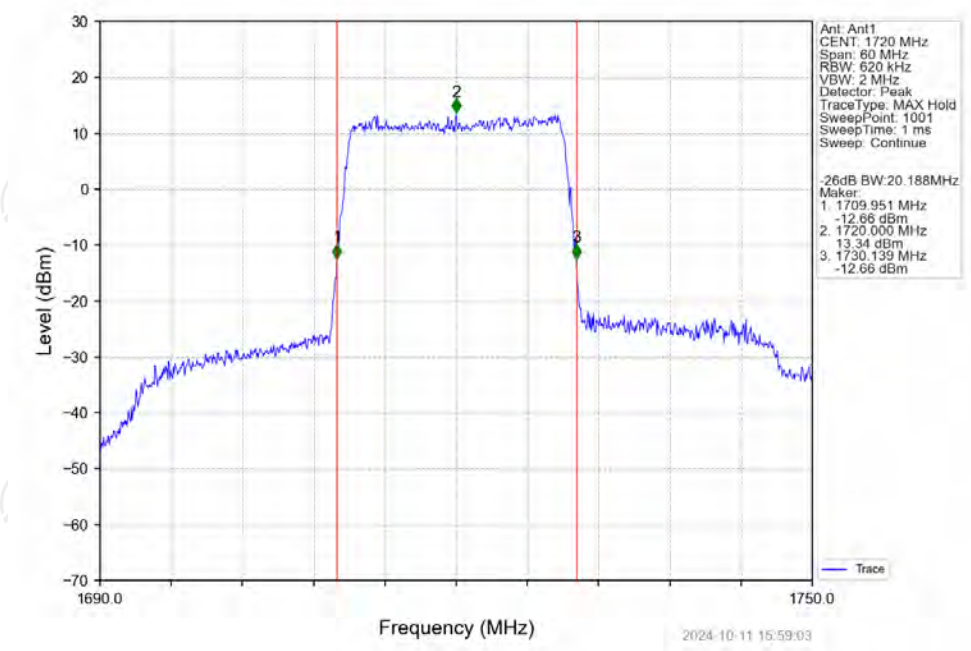
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



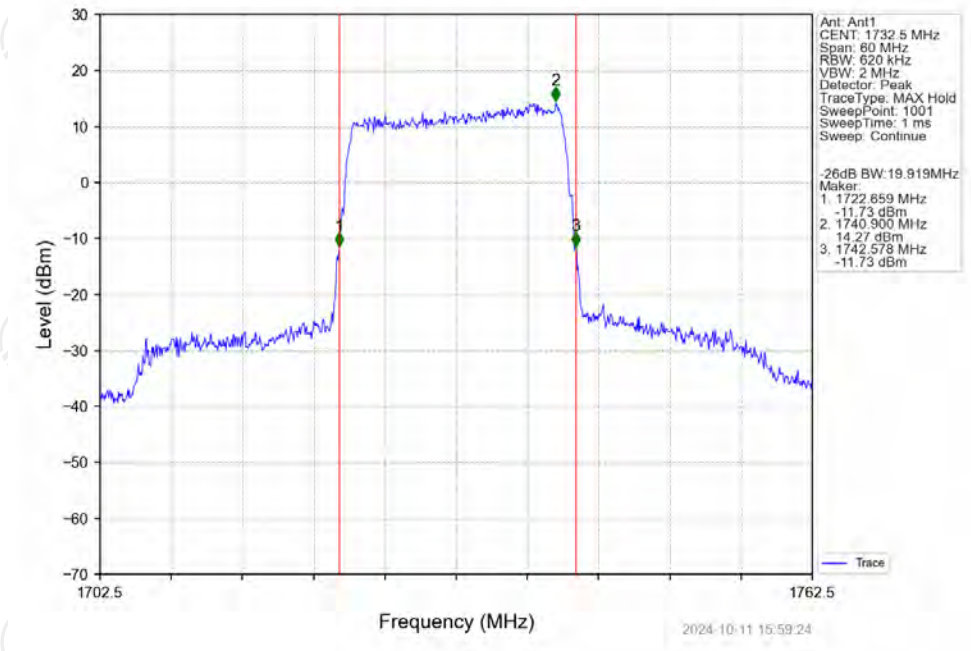
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



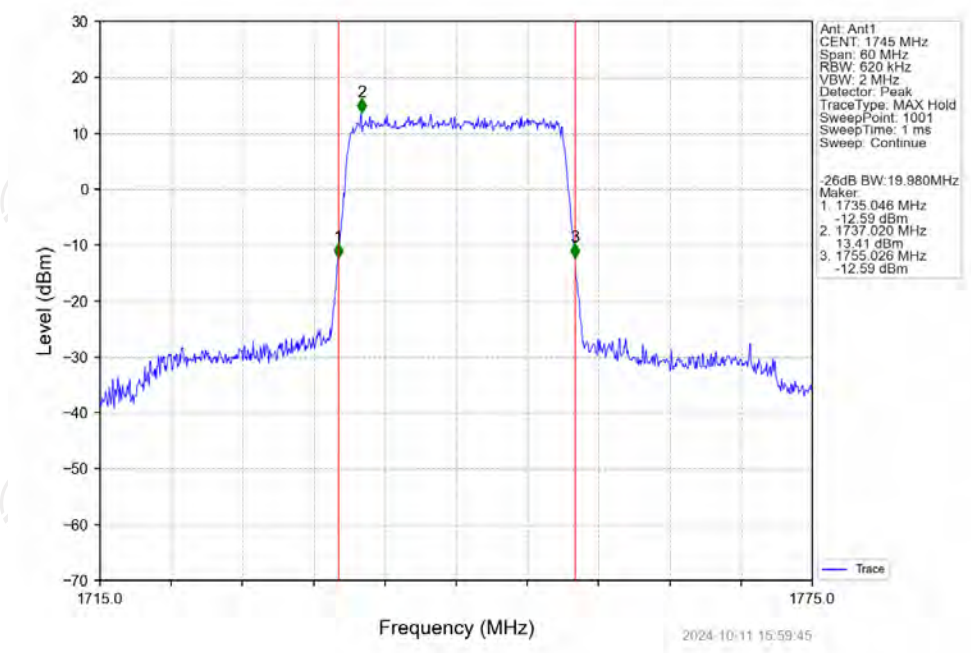
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



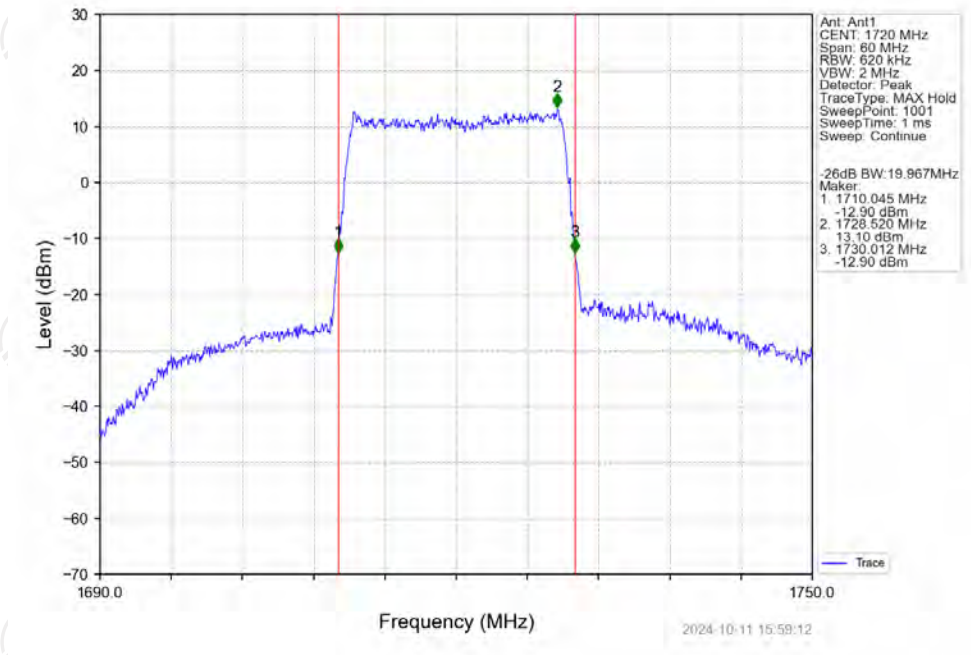
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



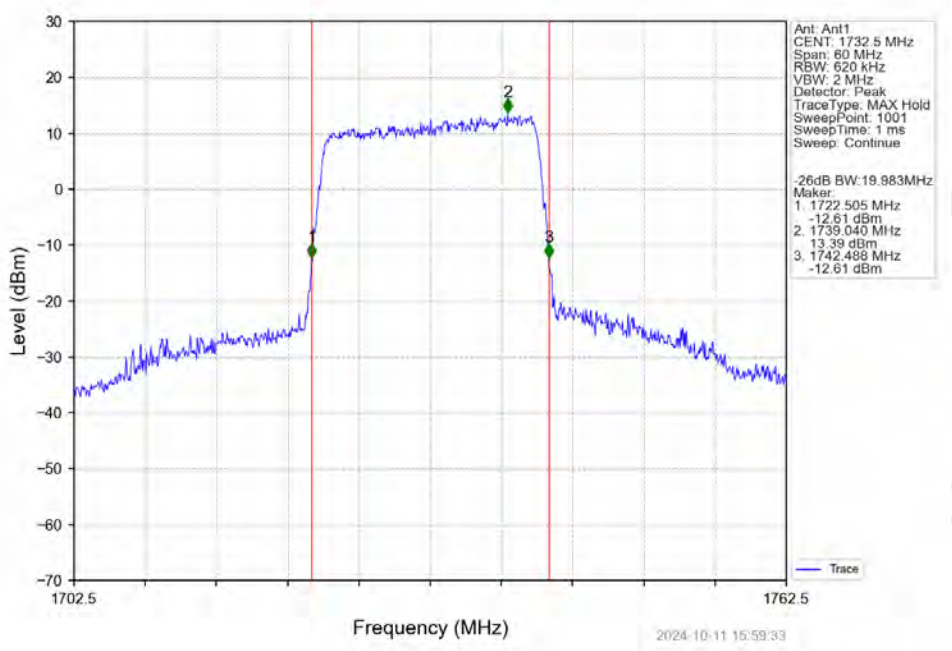
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



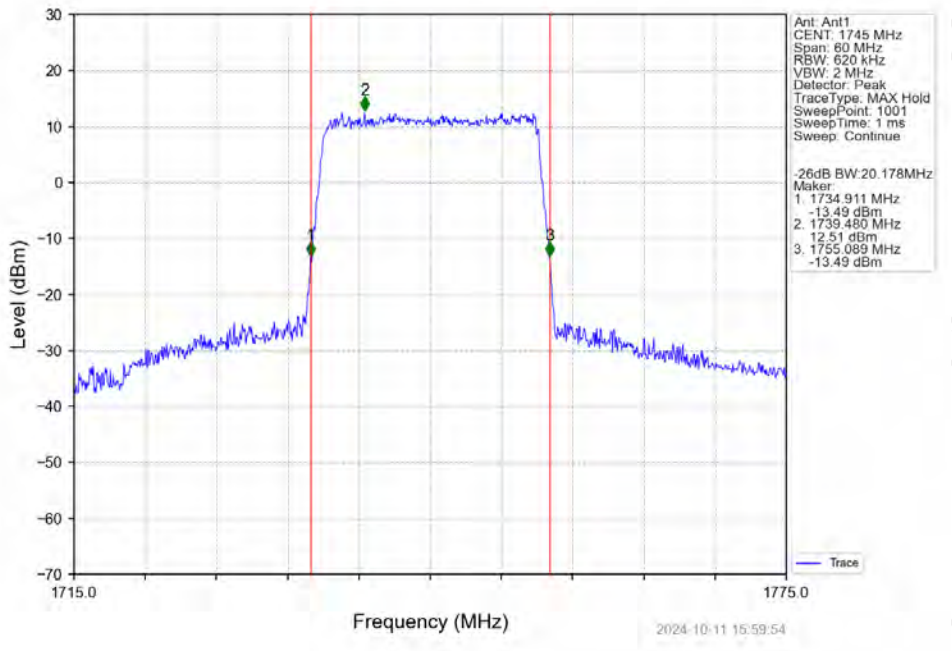
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_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	6.01	<=13	Pass
	1732.5	6	0	5.41	<=13	Pass
	1754.3	6	0	5.80	<=13	Pass
16QAM	1710.7	6	0	6.71	<=13	Pass
	1732.5	6	0	6.23	<=13	Pass
	1754.3	6	0	6.54	<=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	5.96	<=13	Pass
	1732.5	15	0	5.45	<=13	Pass
	1753.5	15	0	5.85	<=13	Pass
16QAM	1711.5	15	0	6.78	<=13	Pass
	1732.5	15	0	6.27	<=13	Pass
	1753.5	15	0	6.62	<=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	5.92	<=13	Pass
	1732.5	25	0	5.57	<=13	Pass
	1752.5	25	0	5.79	<=13	Pass
16QAM	1712.5	25	0	6.70	<=13	Pass
	1732.5	25	0	6.30	<=13	Pass
	1752.5	25	0	6.47	<=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	5.91	<=13	Pass
	1732.5	50	0	5.62	<=13	Pass
	1750	50	0	5.76	<=13	Pass
16QAM	1715	50	0	6.68	<=13	Pass
	1732.5	50	0	6.35	<=13	Pass

	1750	50	0	6.44	<=13	Pass

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	6.33	<=13	Pass
	1732.5	75	0	5.88	<=13	Pass
	1747.5	75	0	5.94	<=13	Pass
16QAM	1717.5	75	0	6.76	<=13	Pass
	1732.5	75	0	6.36	<=13	Pass
	1747.5	75	0	6.42	<=13	Pass

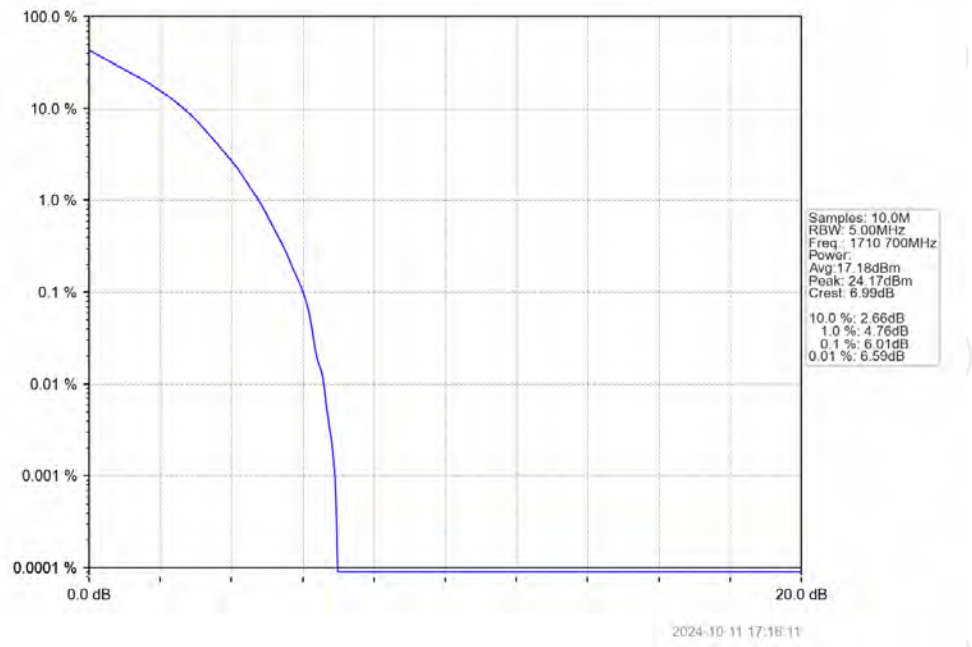
5.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	6.00	<=13	Pass
	1732.5	100	0	5.68	<=13	Pass
	1745	100	0	5.64	<=13	Pass
16QAM	1720	100	0	6.67	<=13	Pass
	1732.5	100	0	6.42	<=13	Pass
	1745	100	0	6.37	<=13	Pass

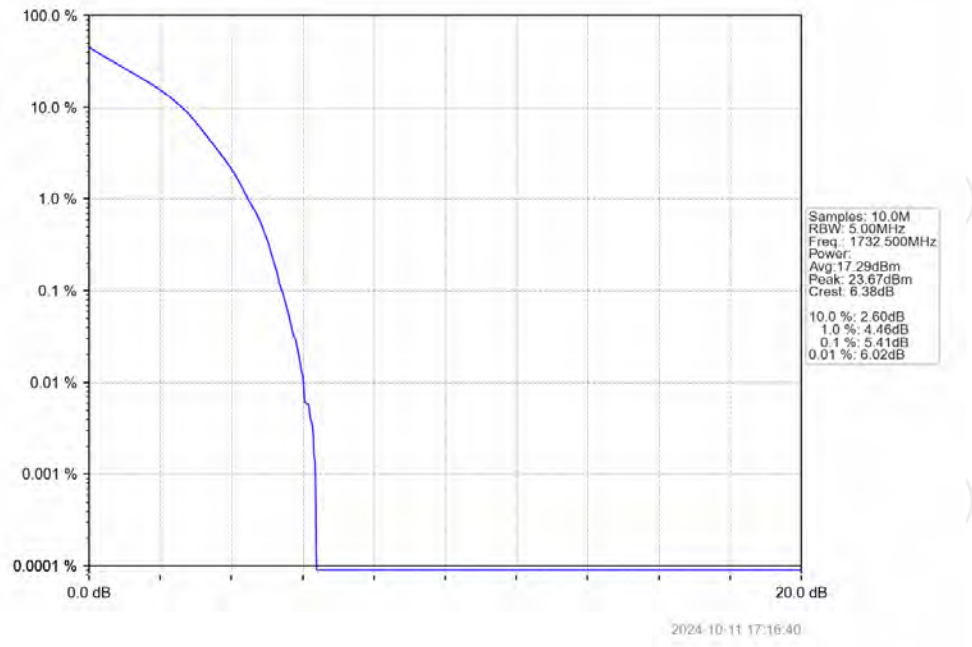
5.2 Test Graph

5.2.1 B4_1.4MHz

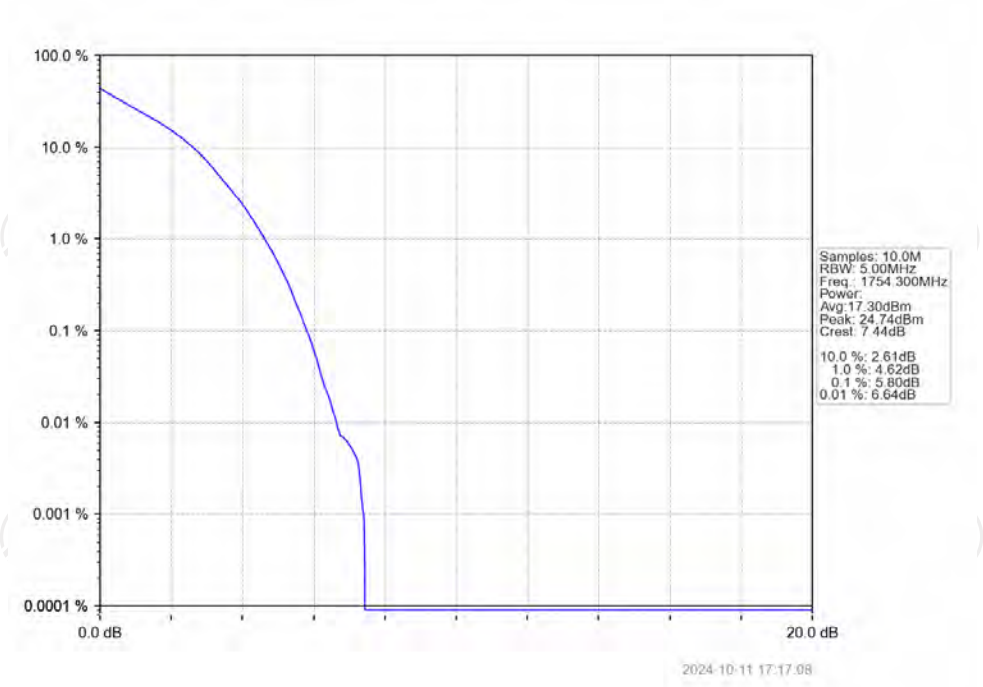
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



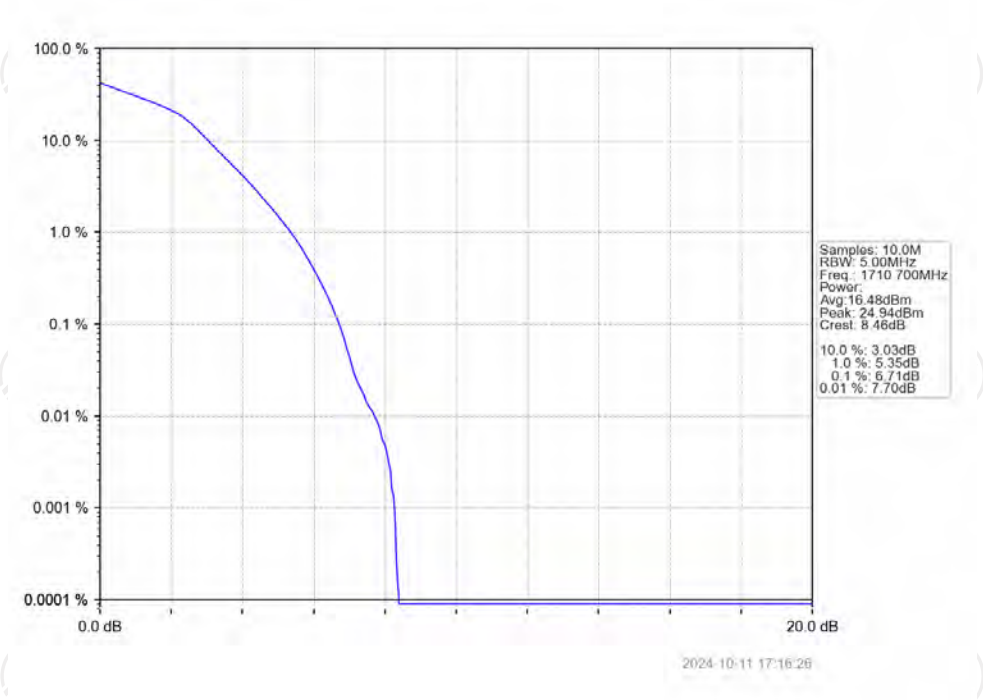
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



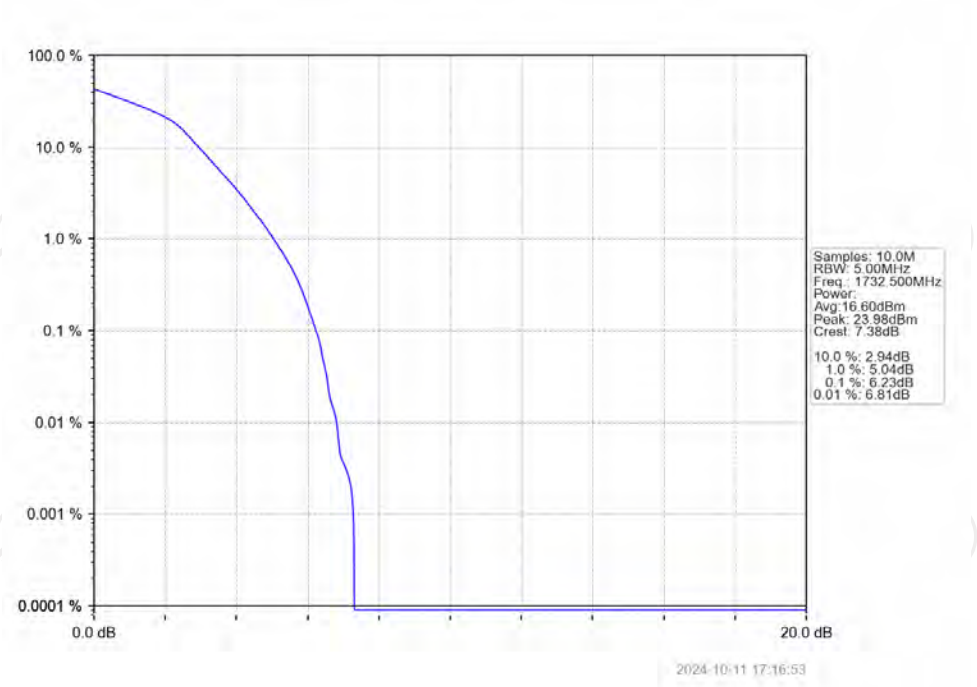
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



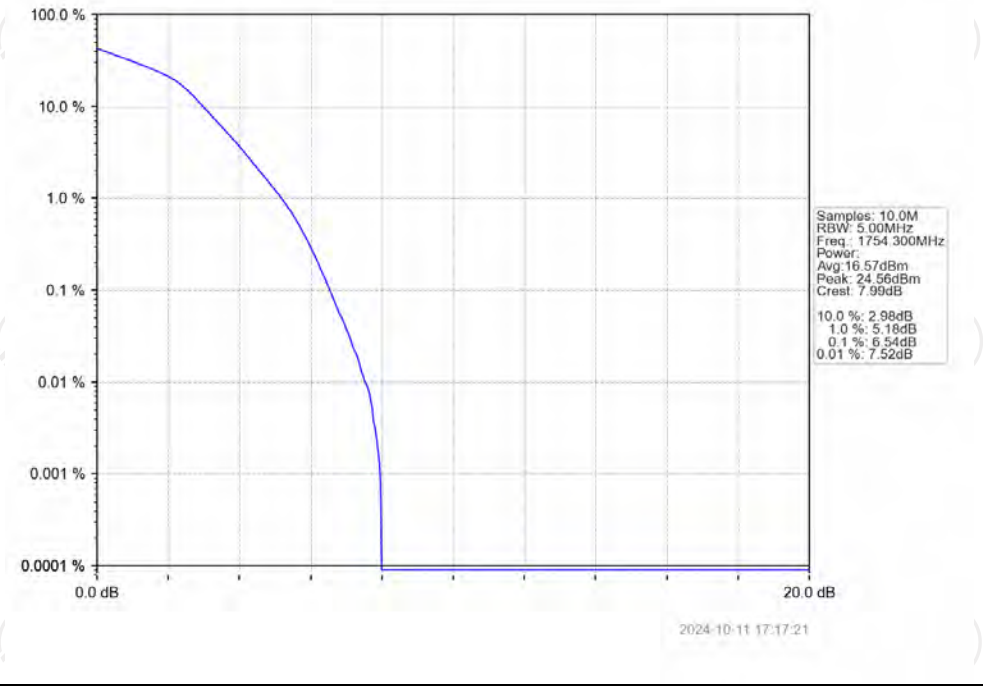
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV

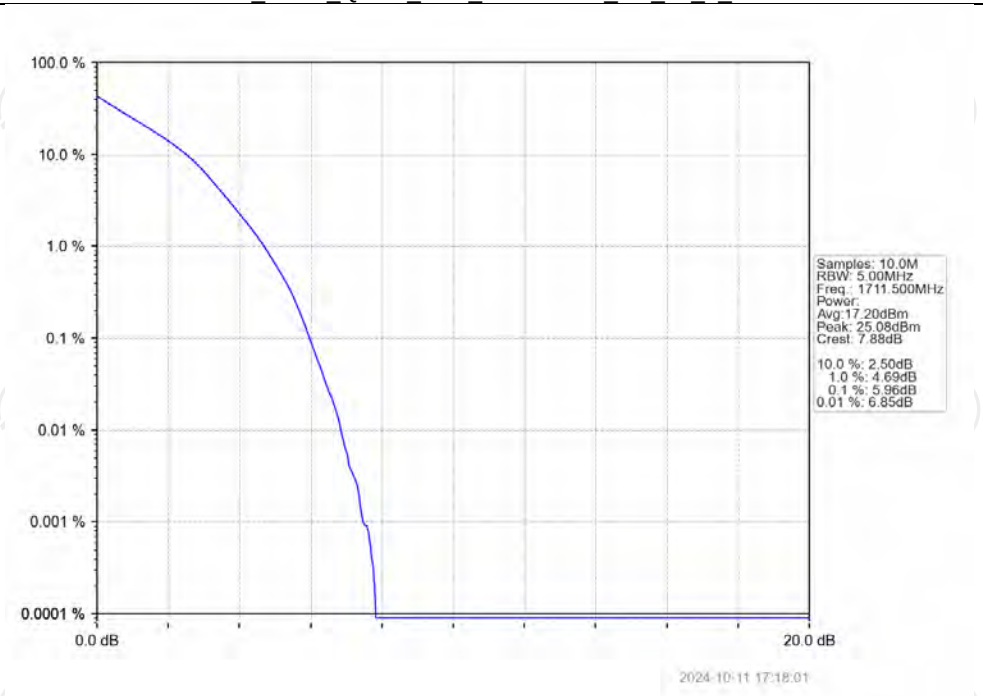


Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV

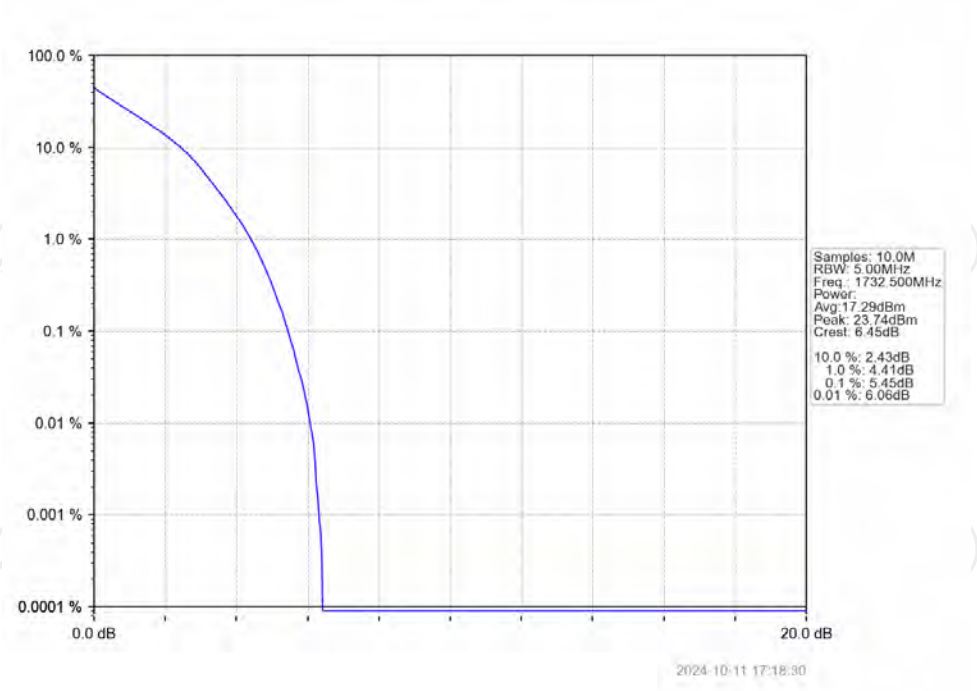


5.2.2 B4_3MHz

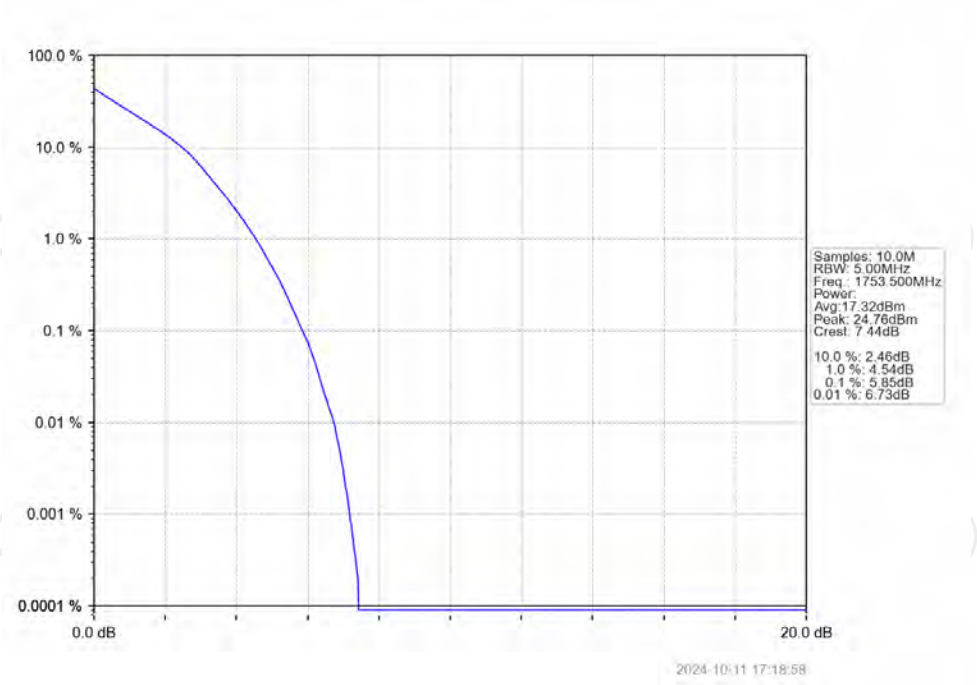
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



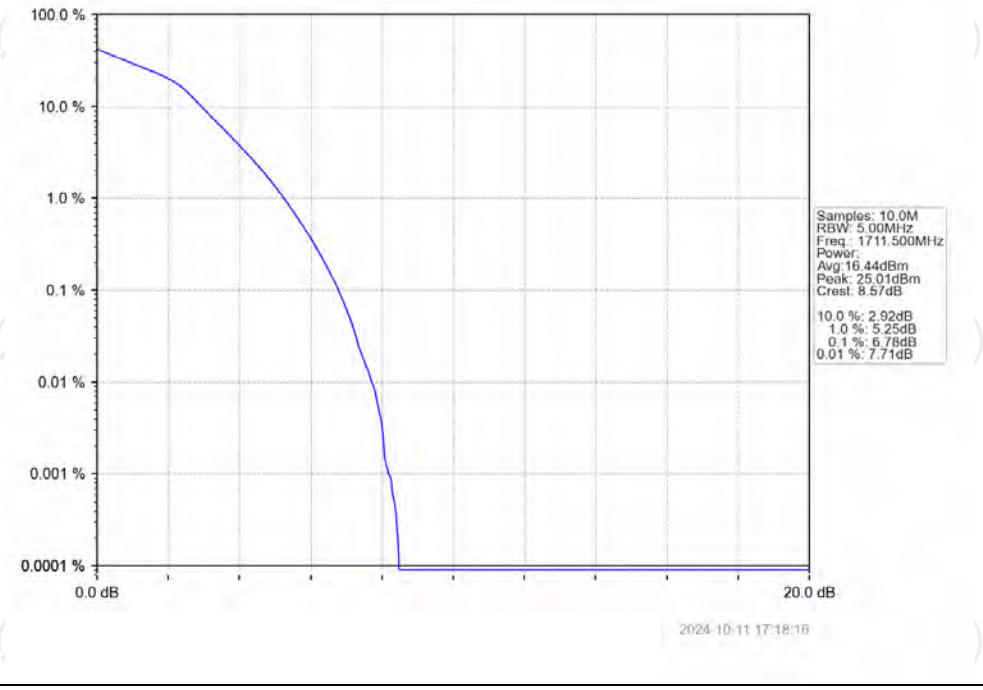
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



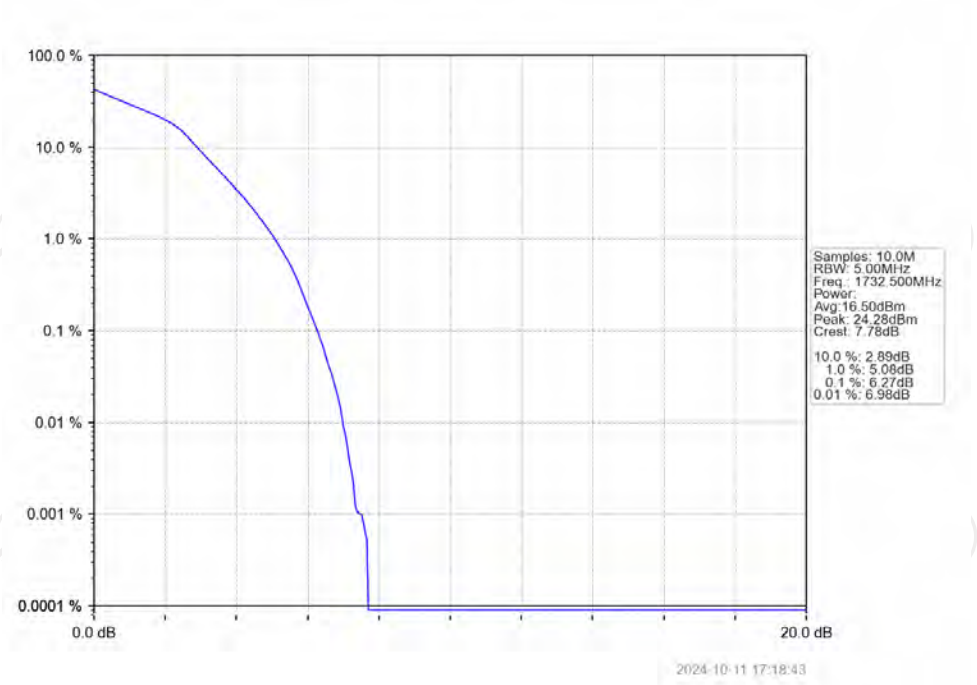
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



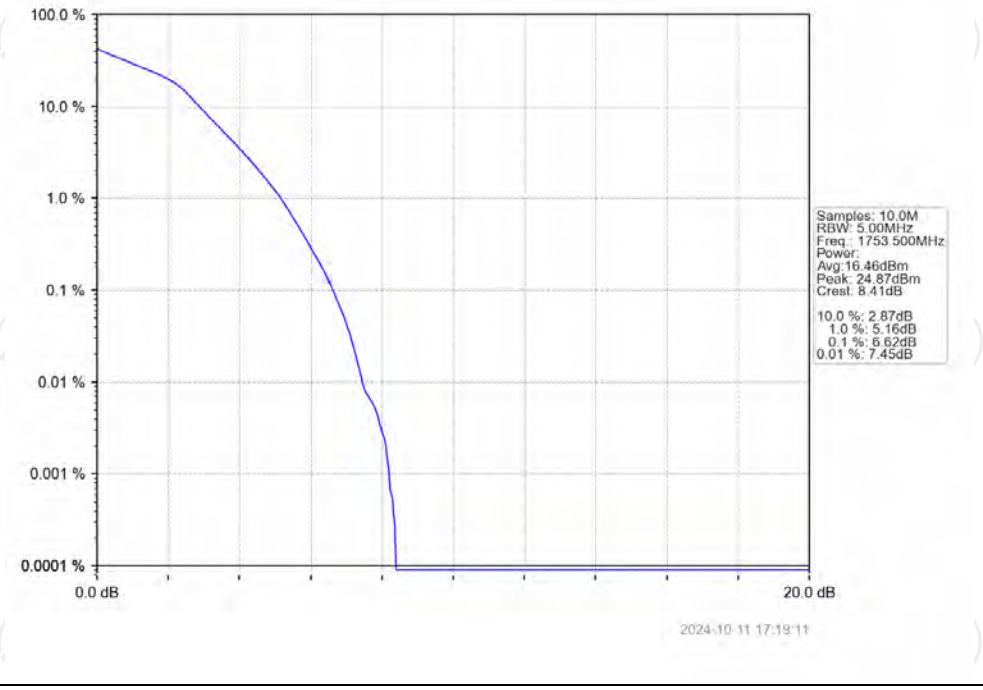
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

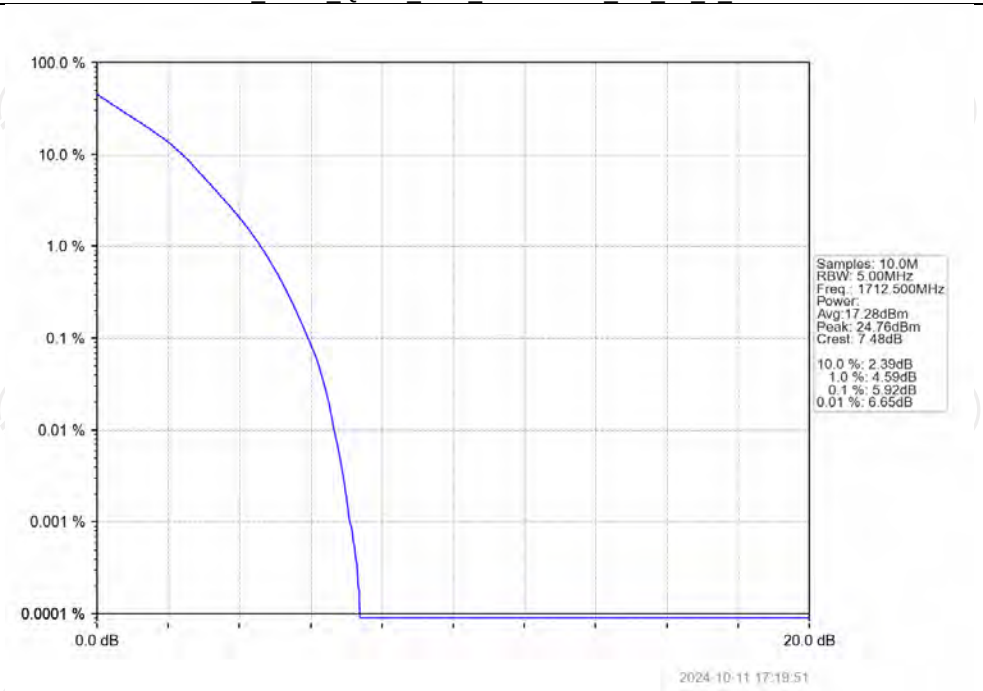


Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV

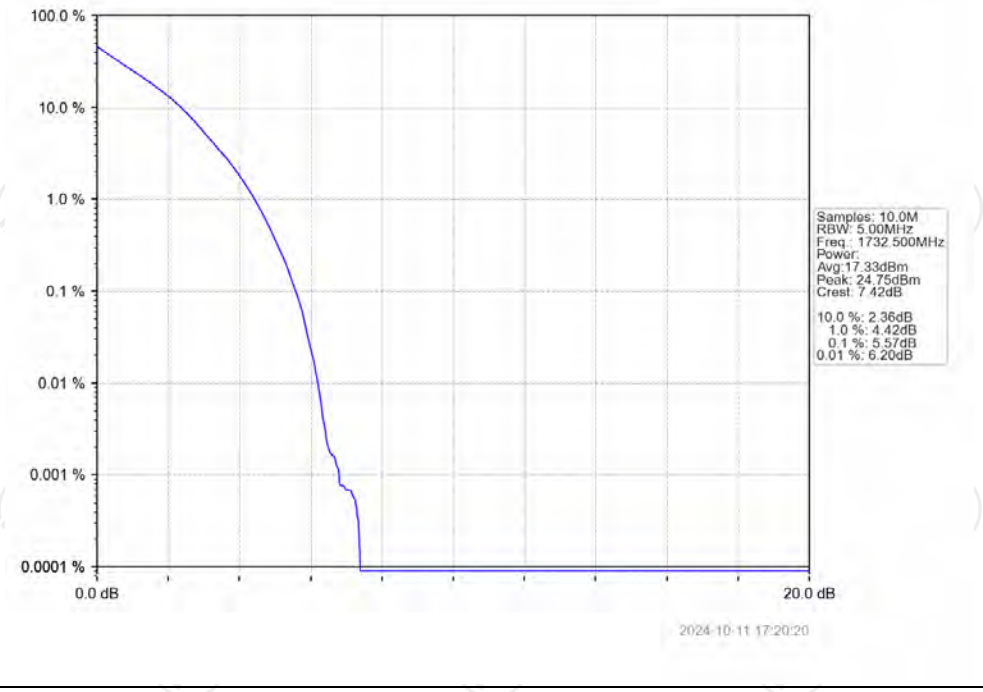


5.2.3 B4_5MHz

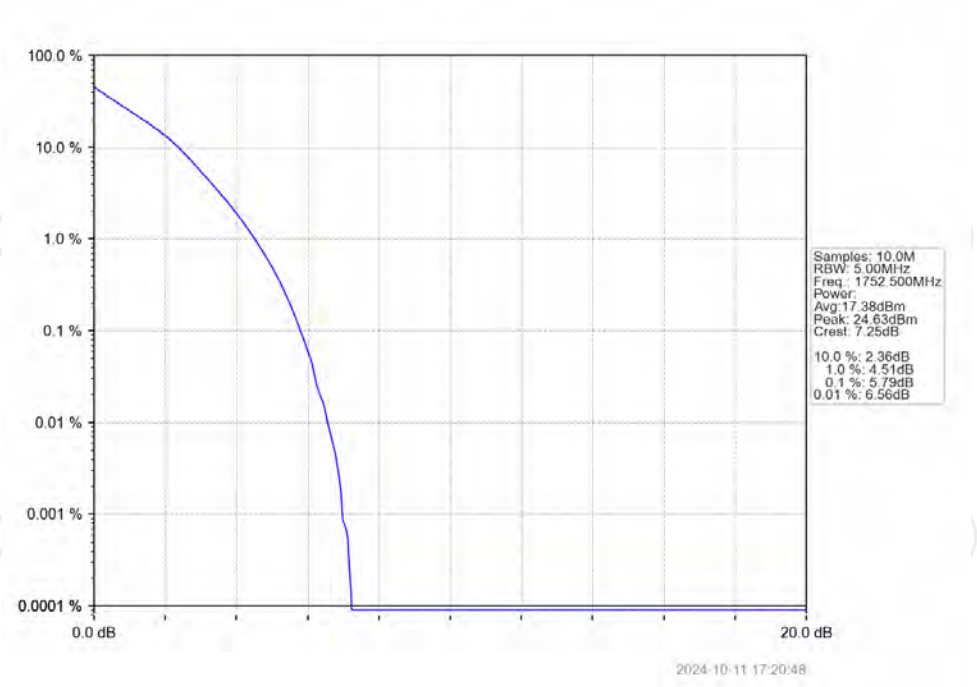
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



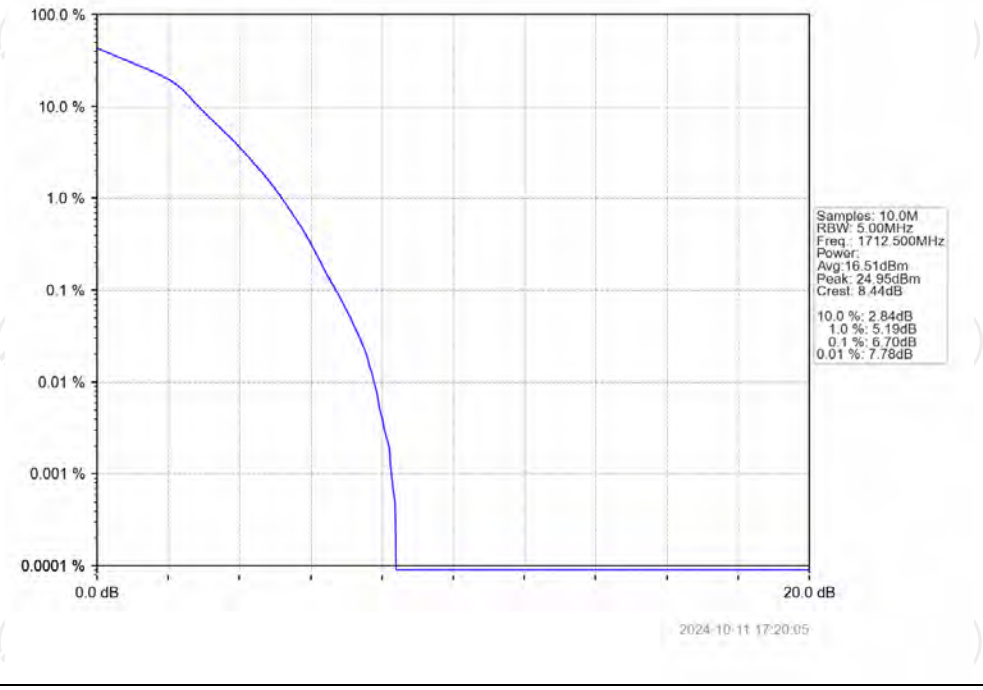
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



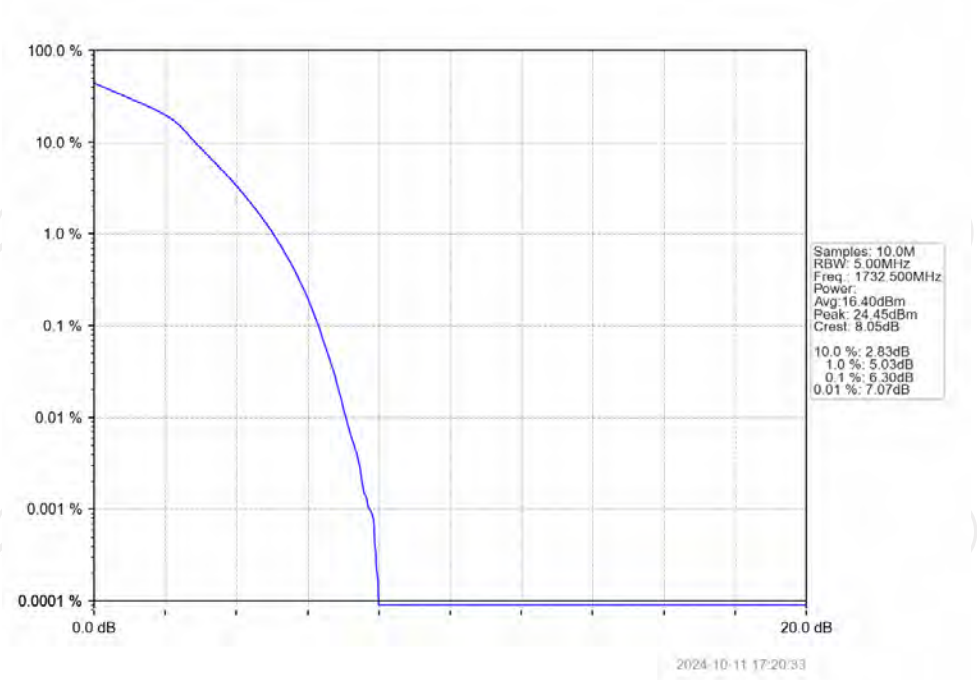
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



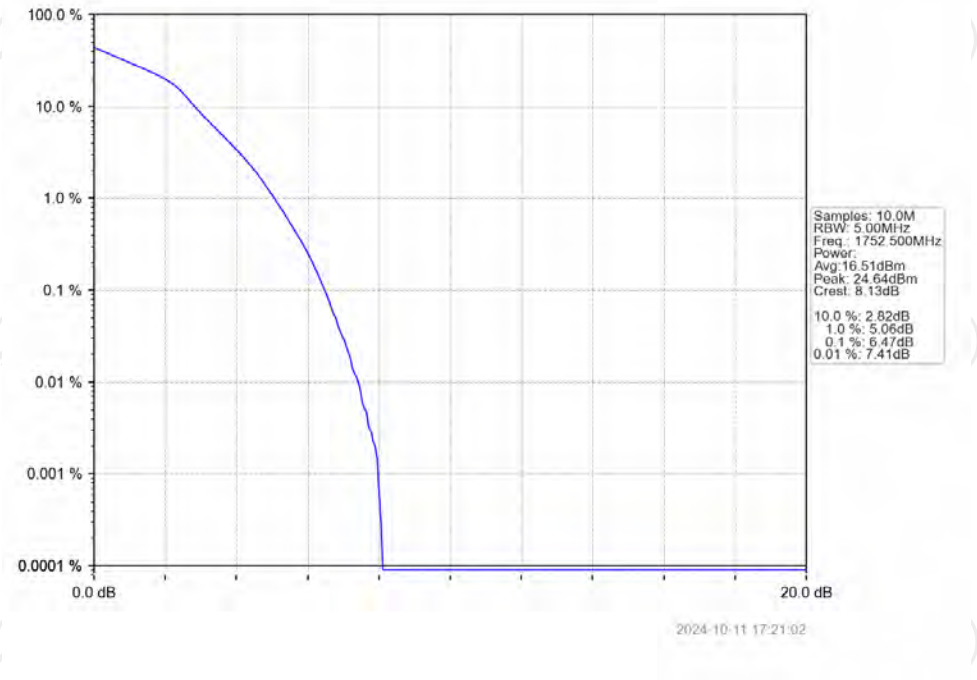
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV

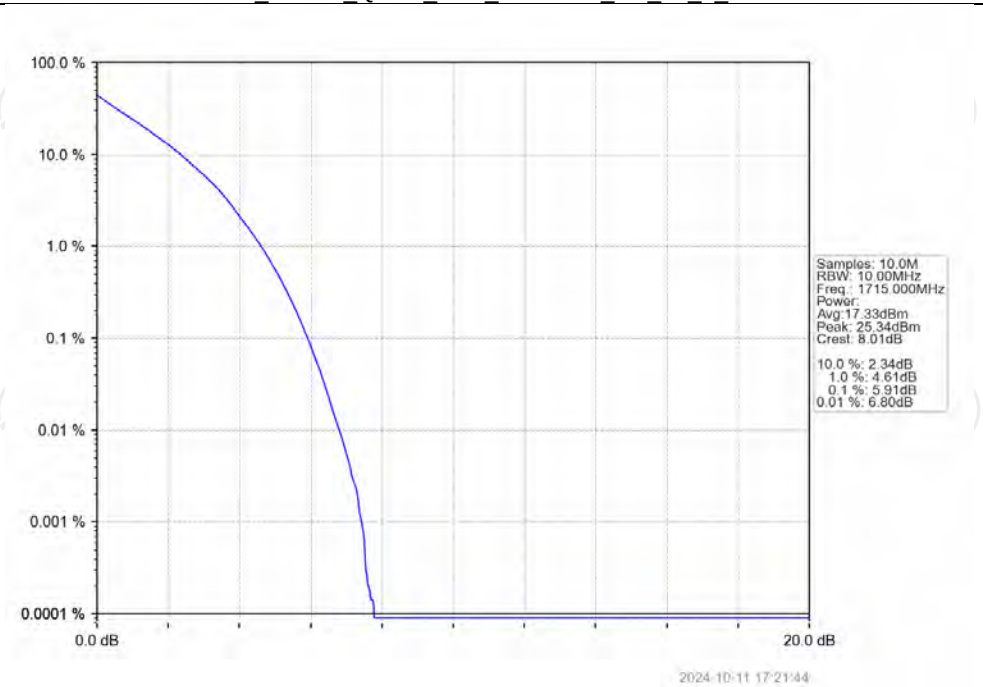


Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

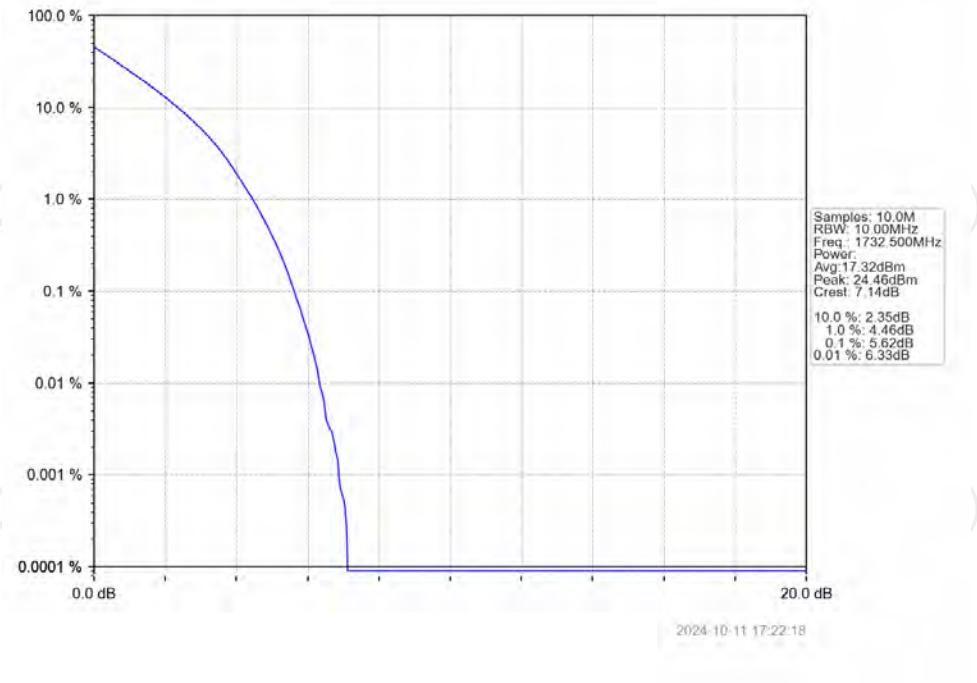


5.2.4 B4_10MHz

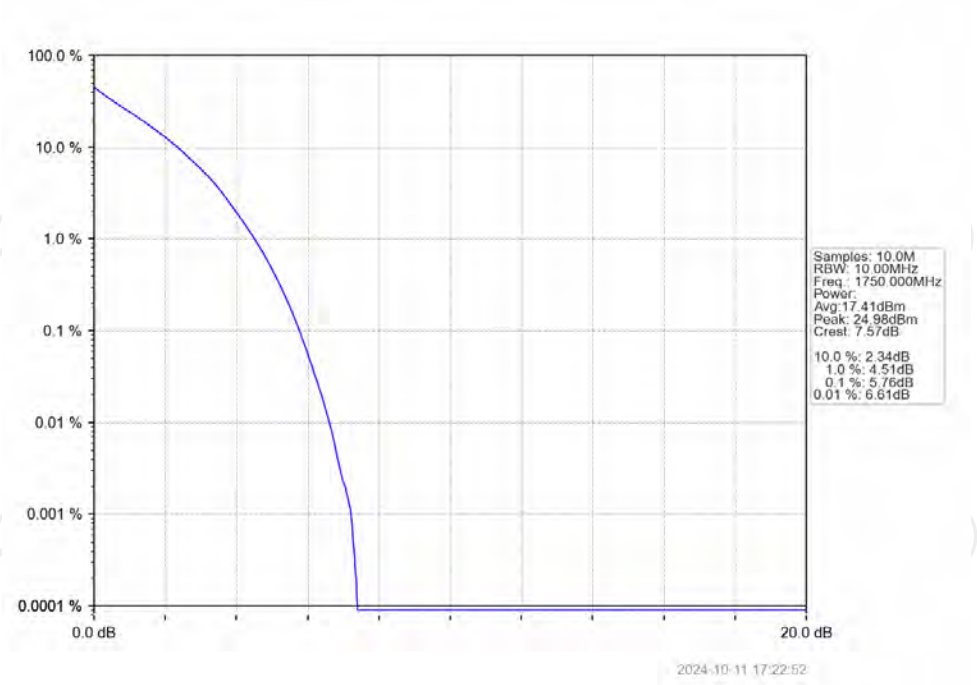
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



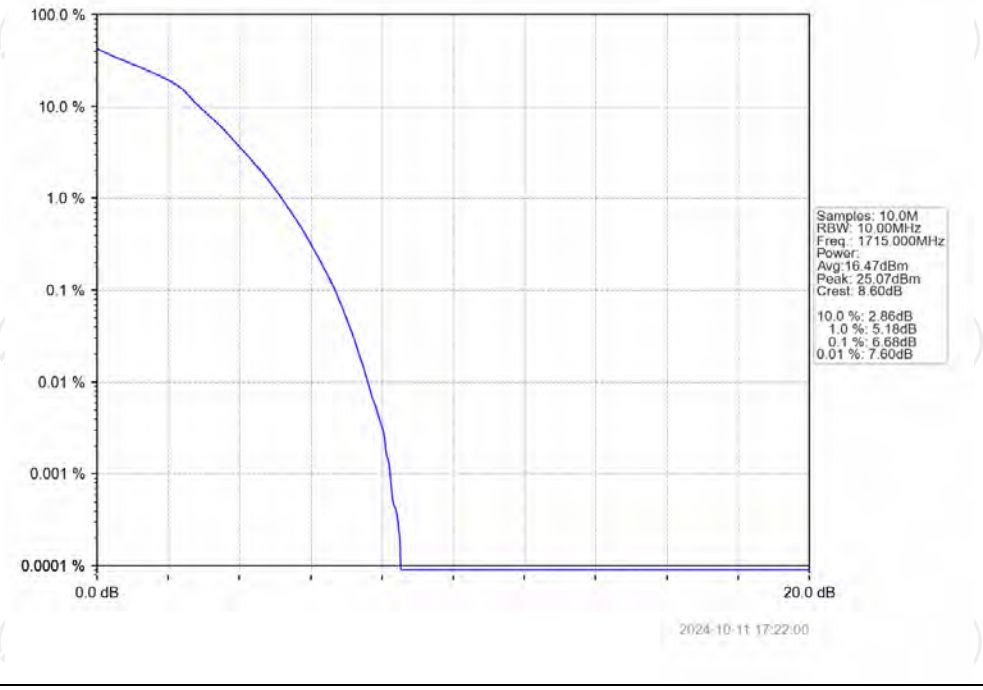
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



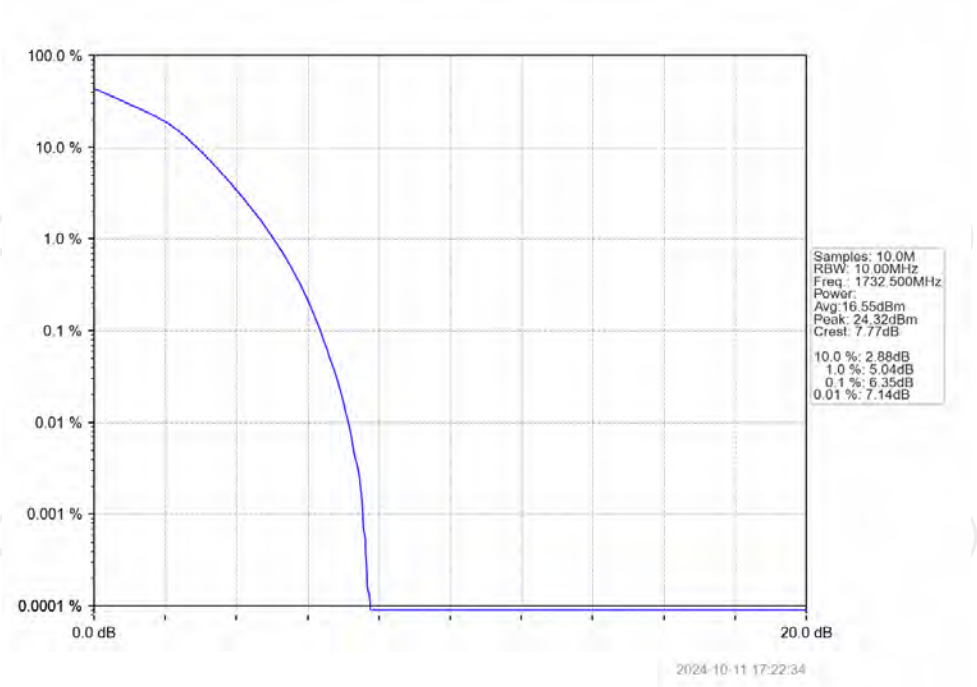
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



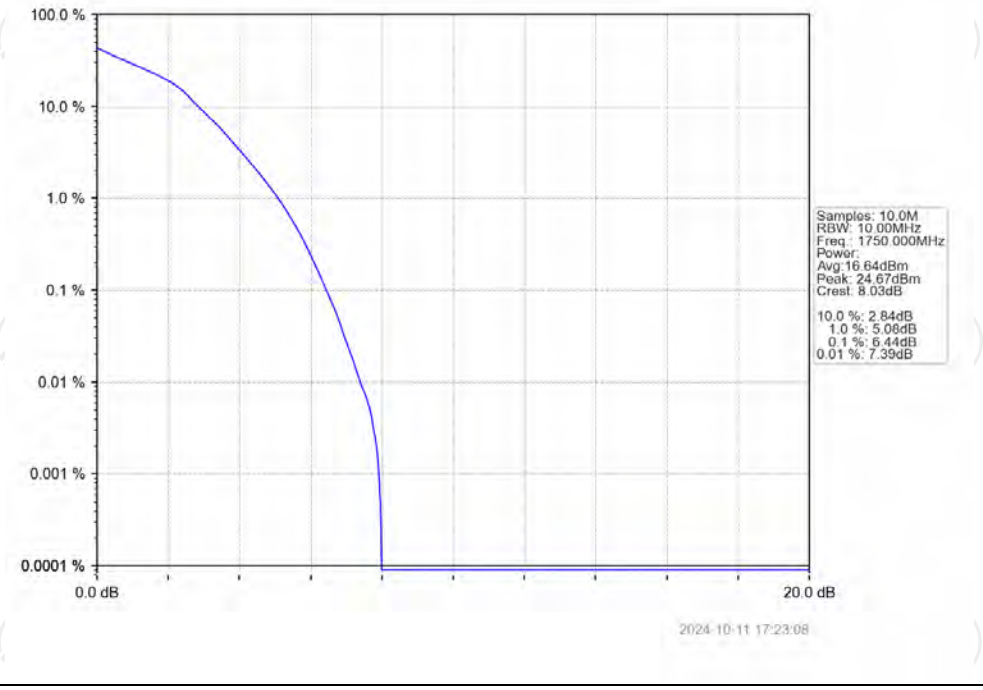
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

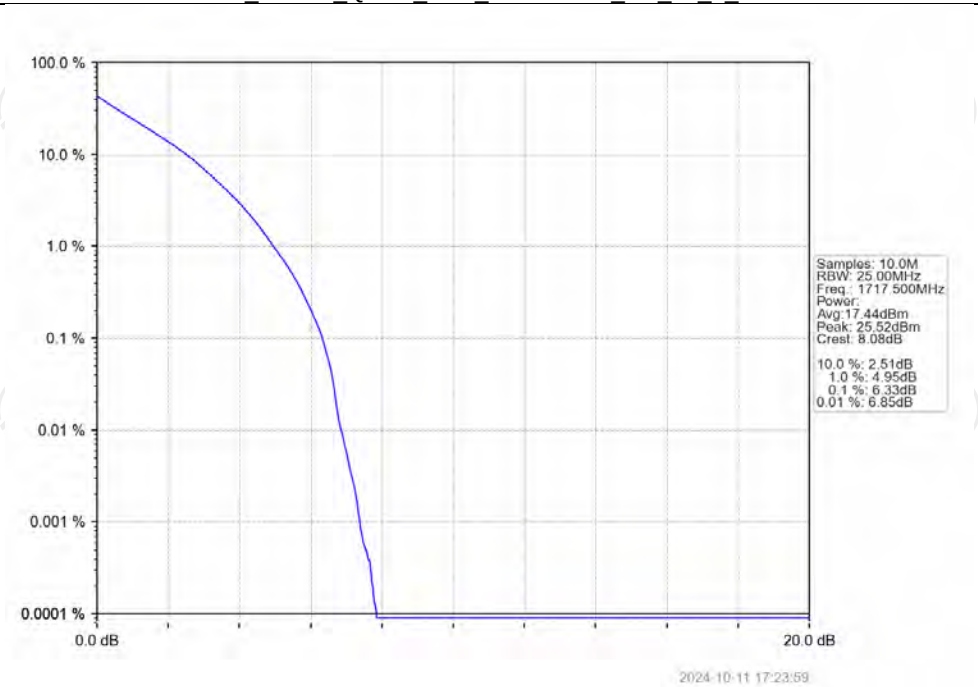


Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

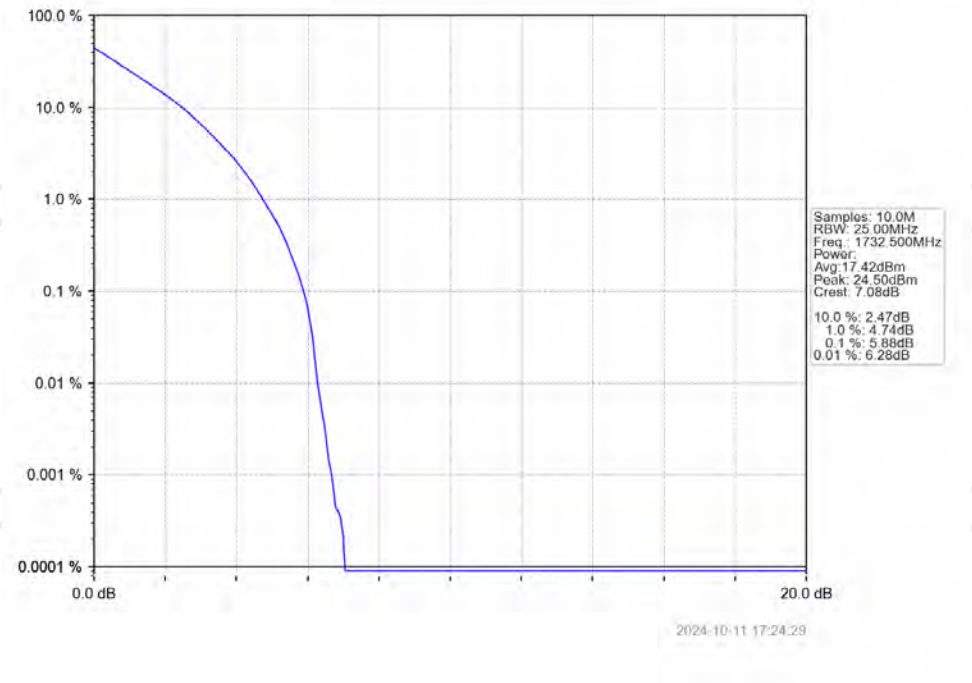


5.2.5 B4_15MHz

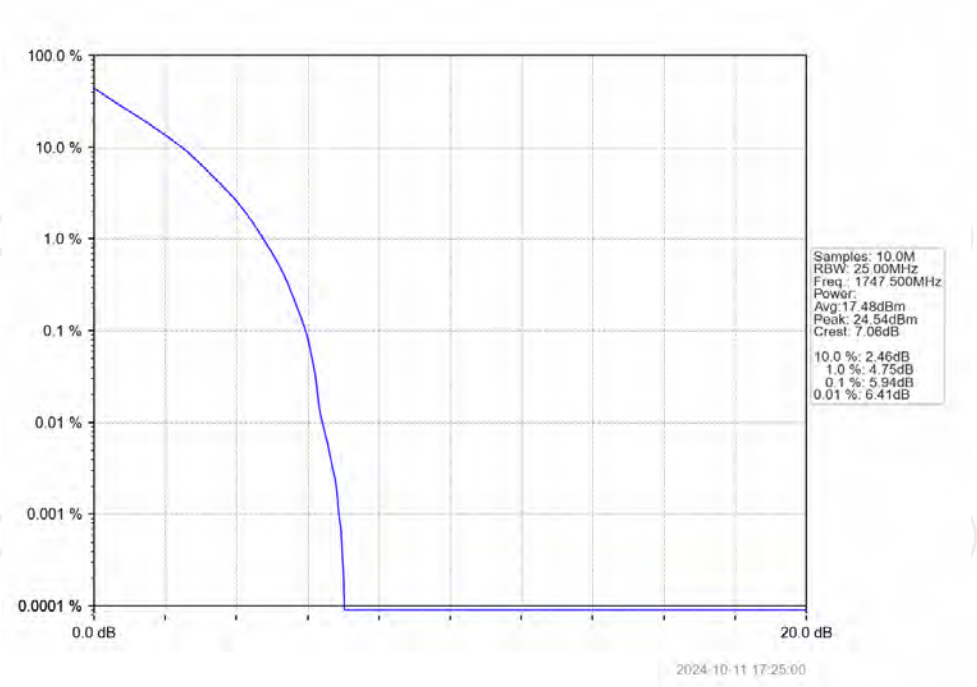
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



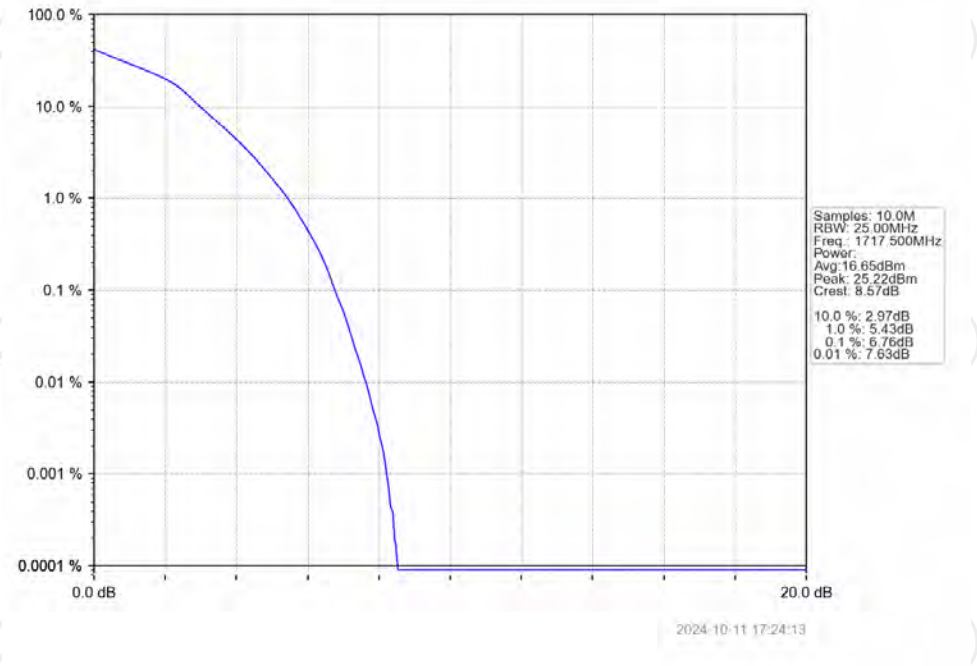
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



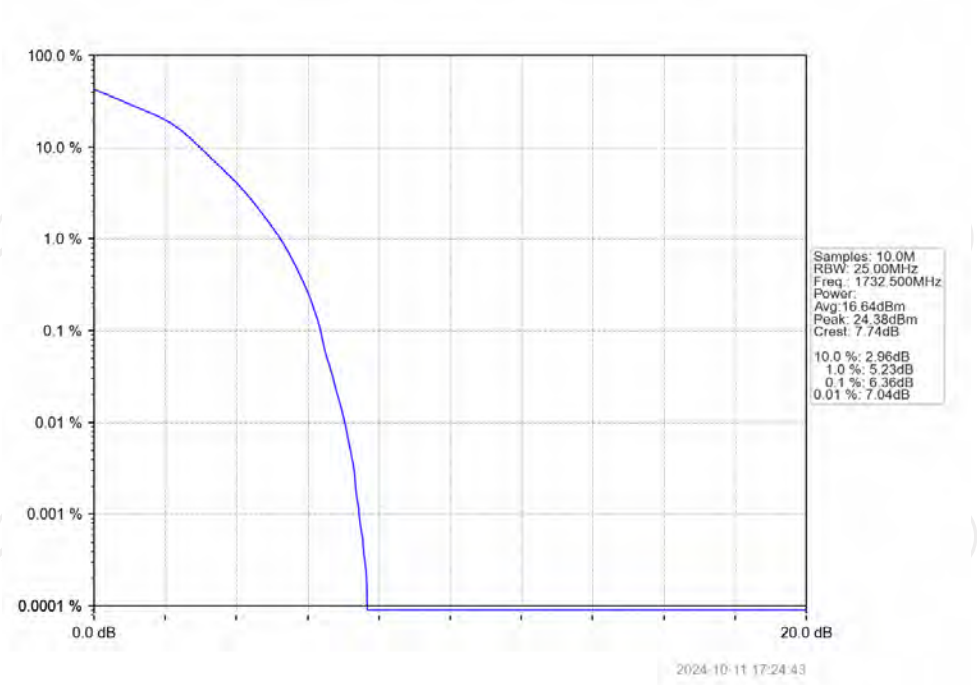
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



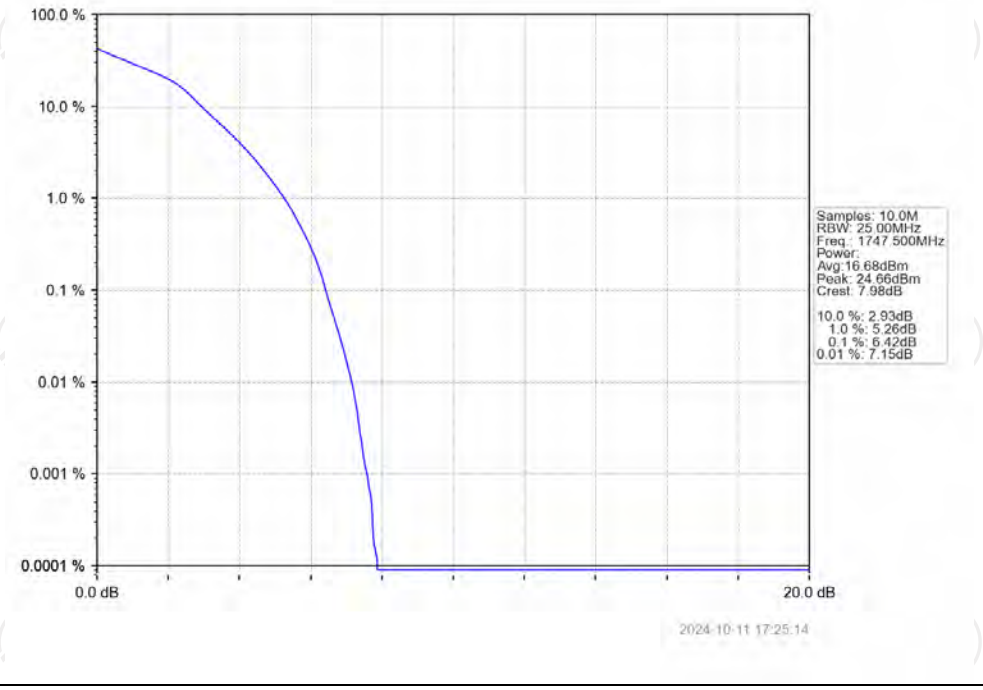
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

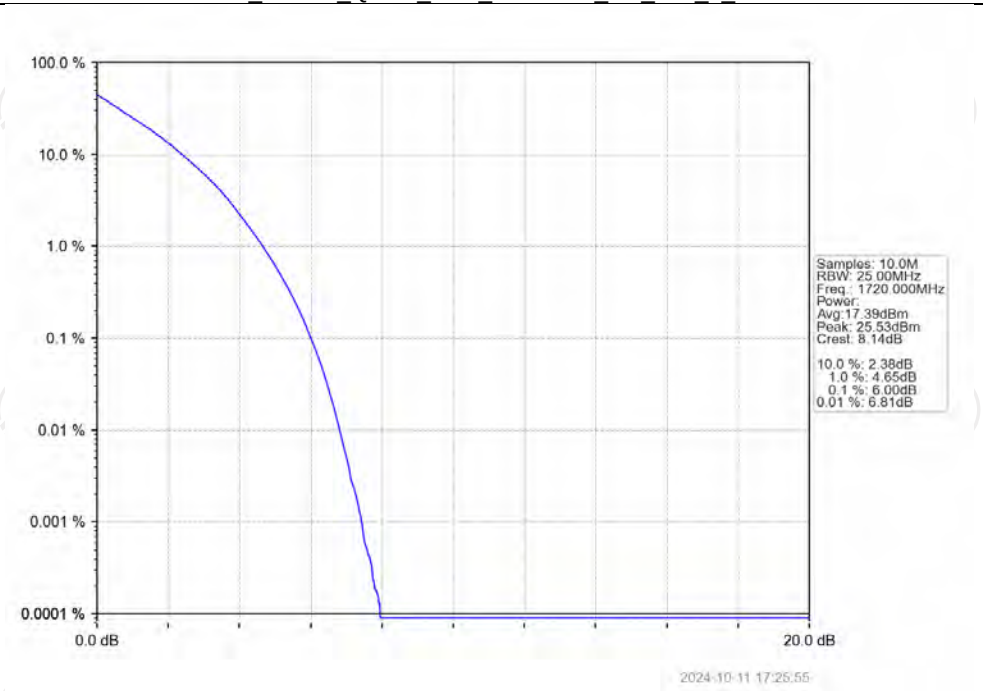


Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

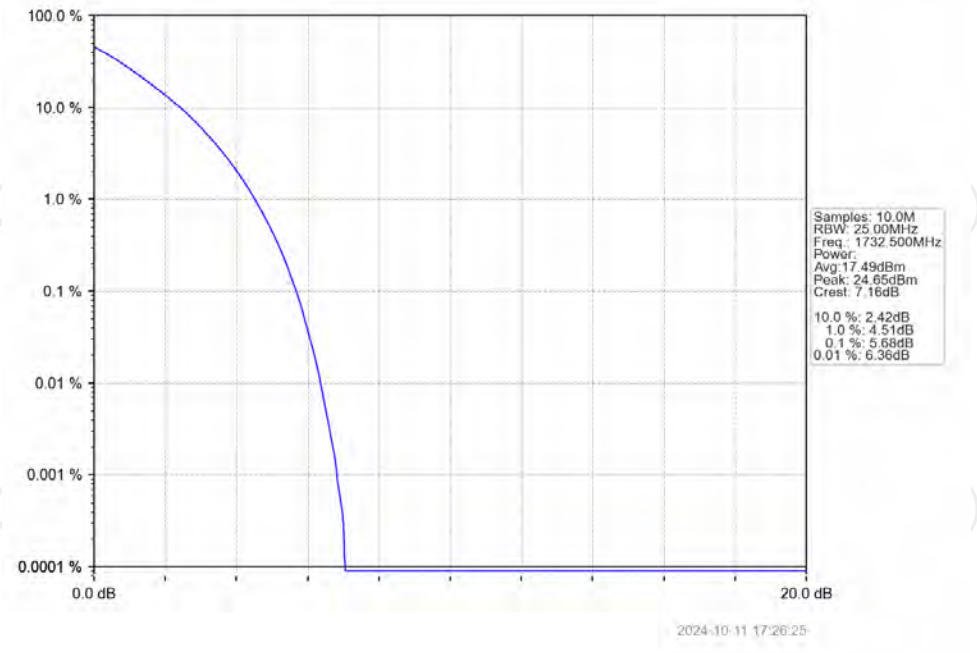


5.2.6 B4_20MHz

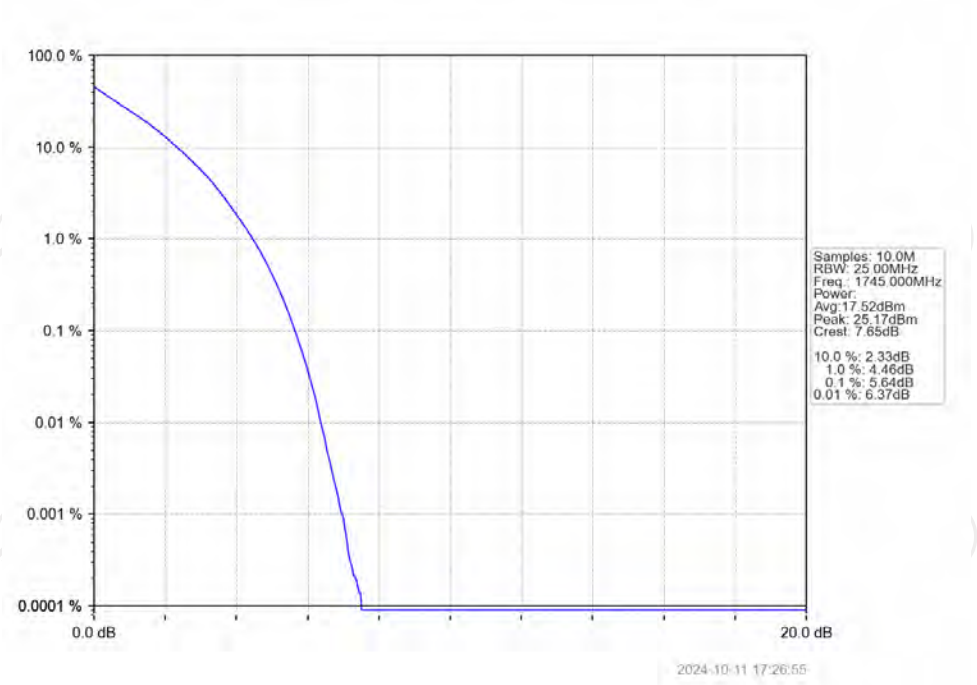
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



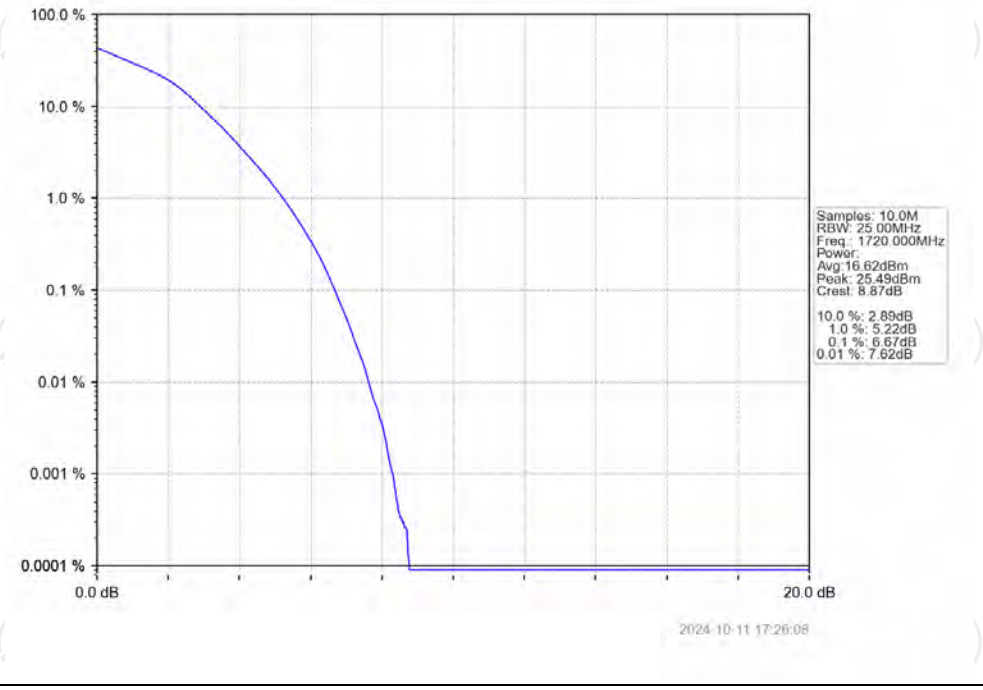
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



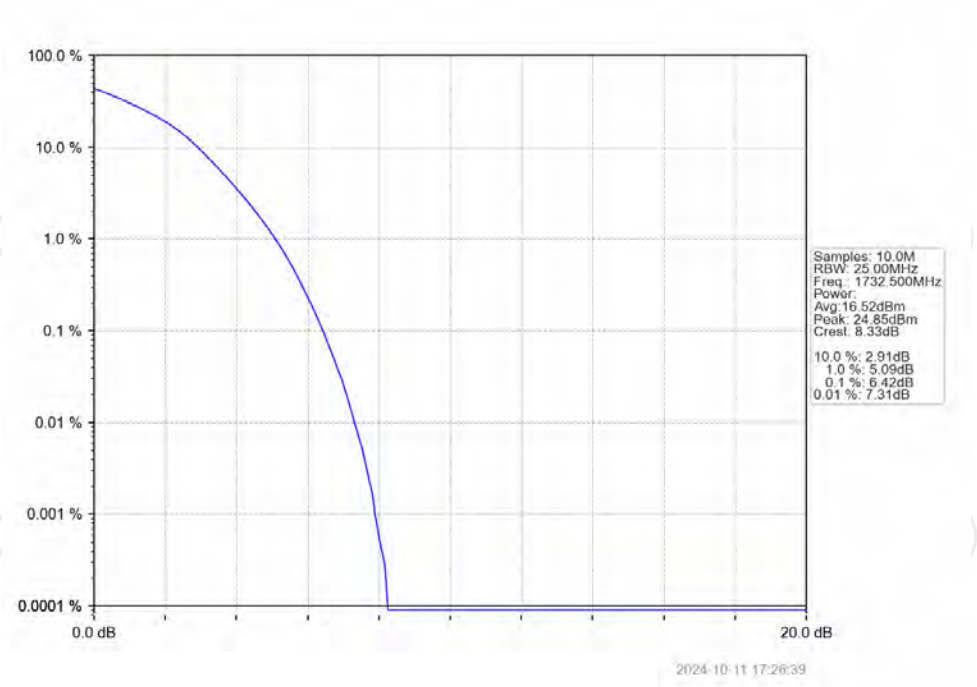
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



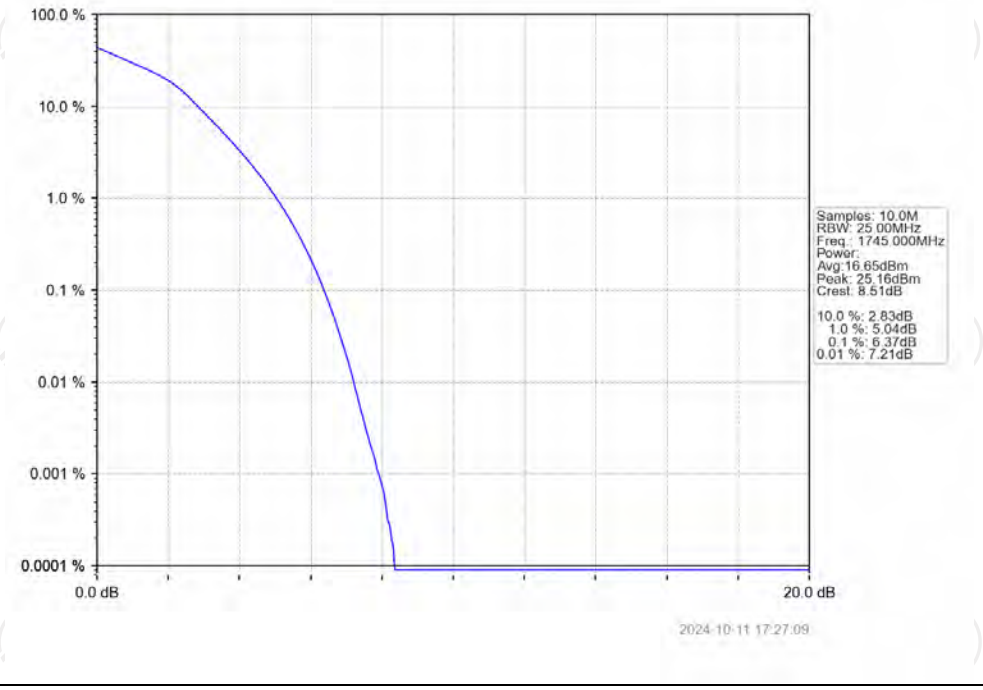
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B4_1.4MHz

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

6.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

6.1.3 B4_5MHz

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

		25	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1752.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B4_10MHz

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

6.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

6.1.6 B4_20MHz

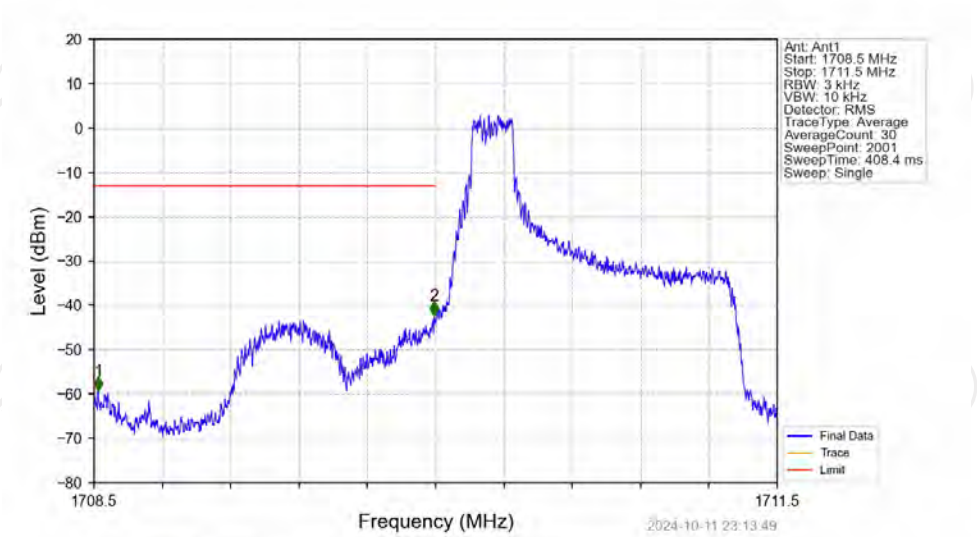
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test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

		100	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1745	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass

6.2 Test Graph

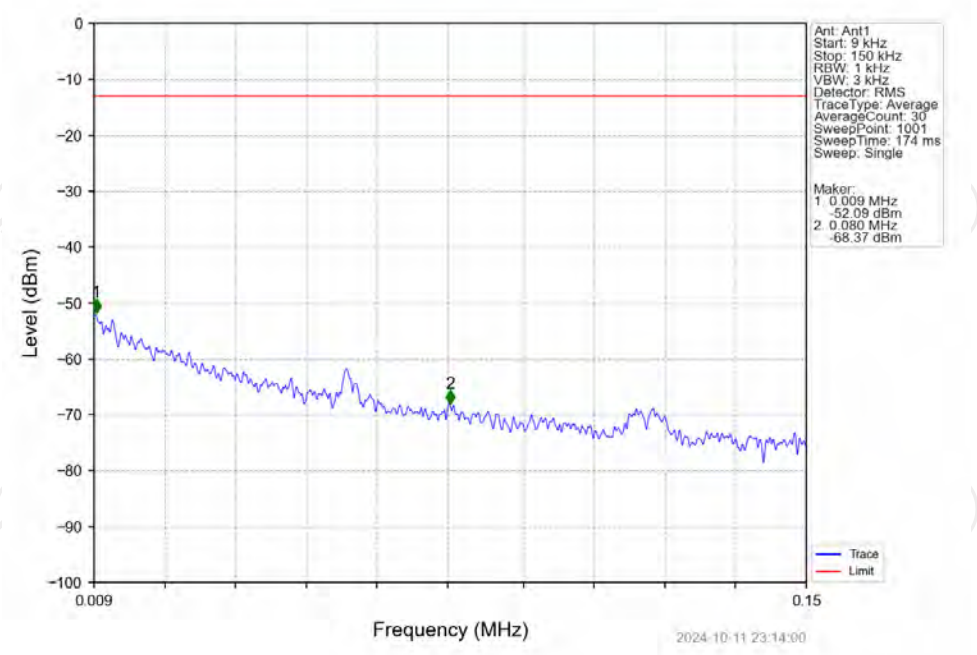
6.2.1 B4_1.4MHz

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

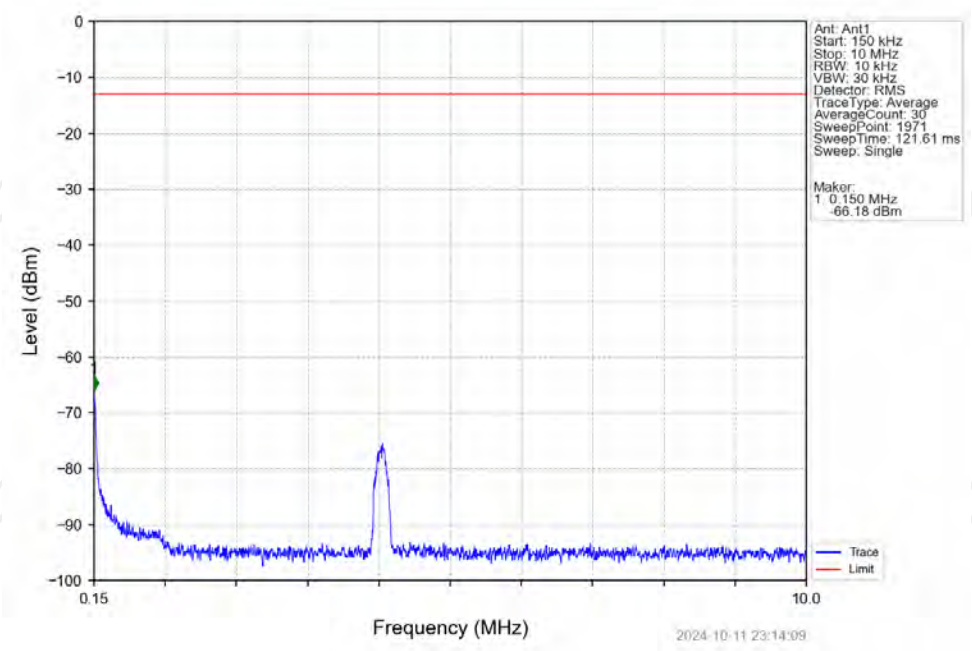


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.518	-59.16	-13	Pass
1709	1710	0.003	/	2	1709.994	-42.19	-13	Pass
1710	1711.5	0.003	/	/	/	/	/	/

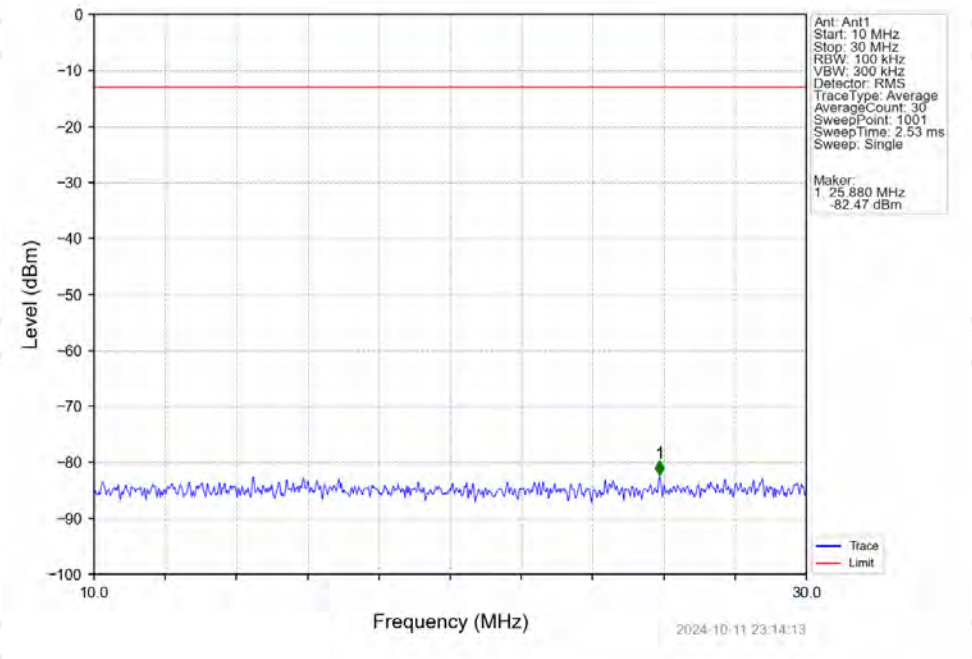
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



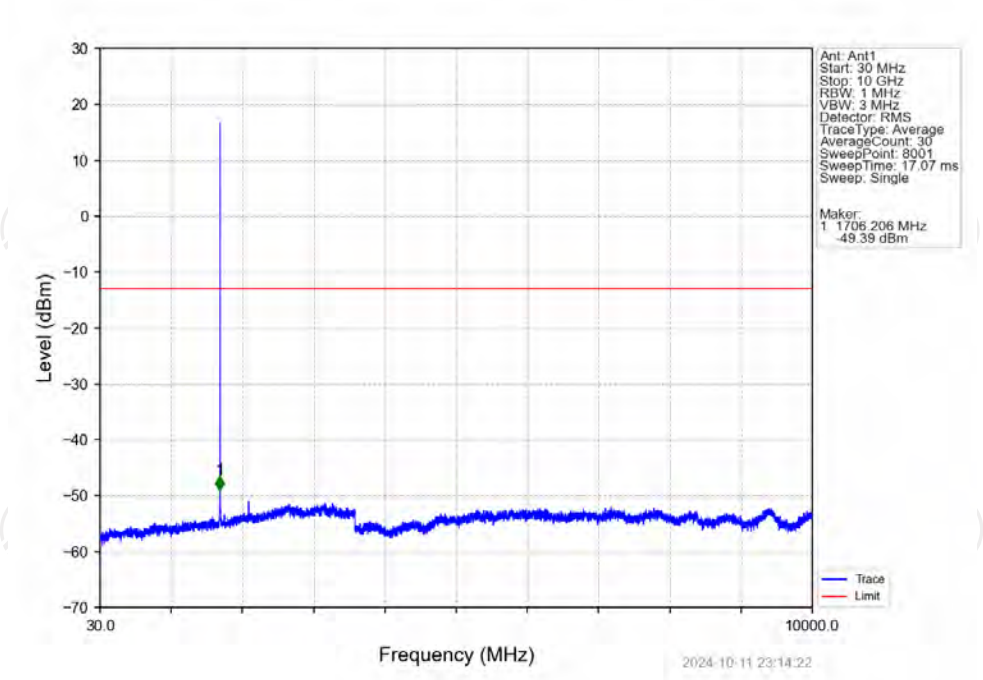
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



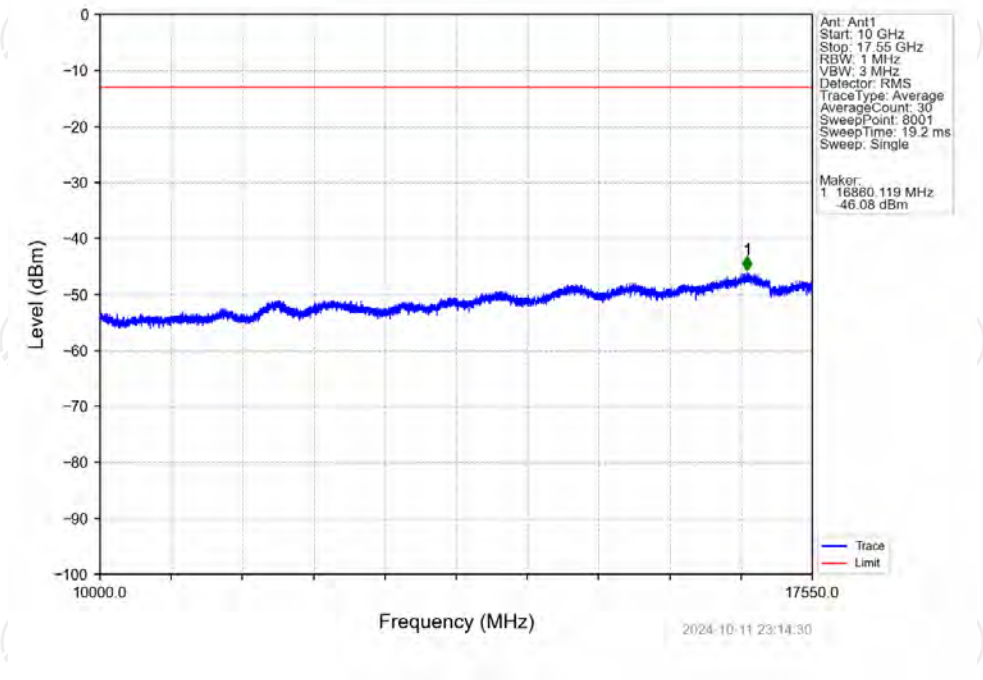
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



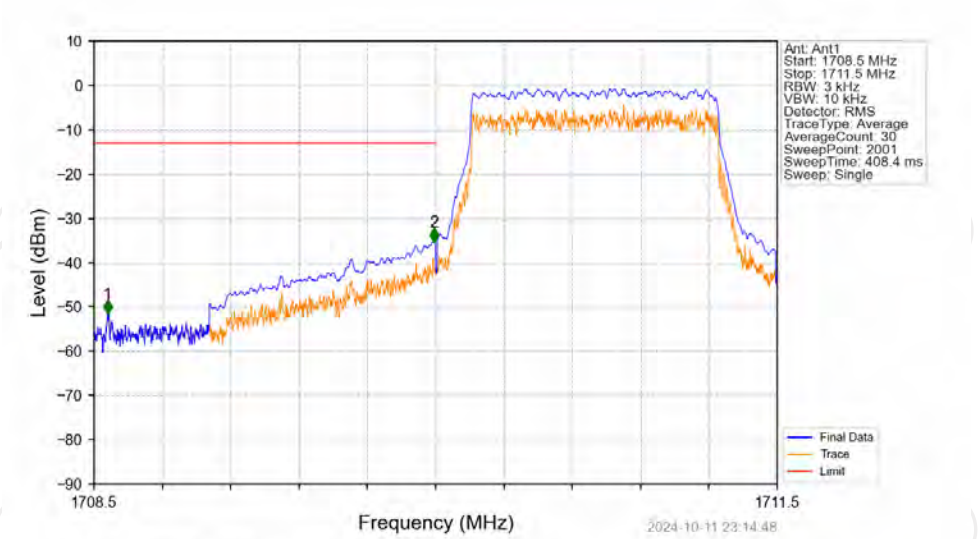
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

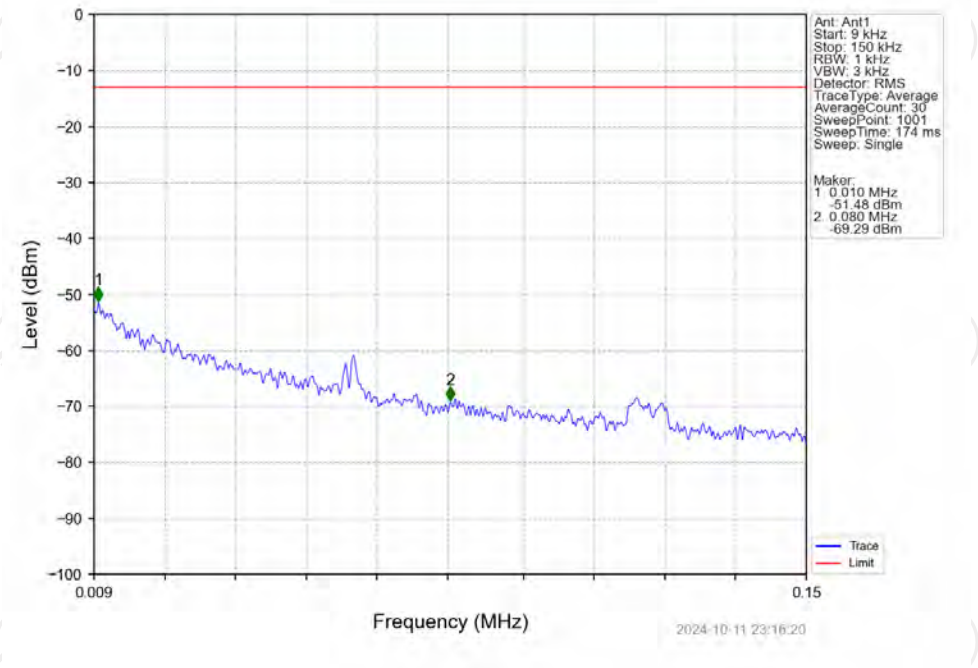


Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

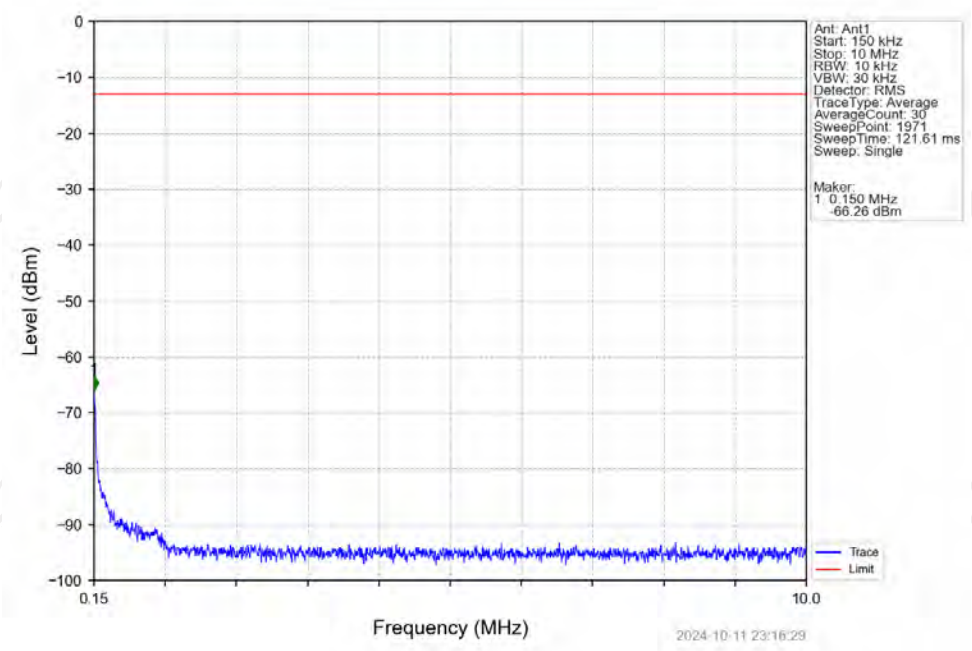


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.560	-51.56	-13	Pass
1709	1710	0.013	CHP	2	1709.993	-35.24	-13	Pass
1710	1711.5	0.013	CHP	/	/	/	/	/

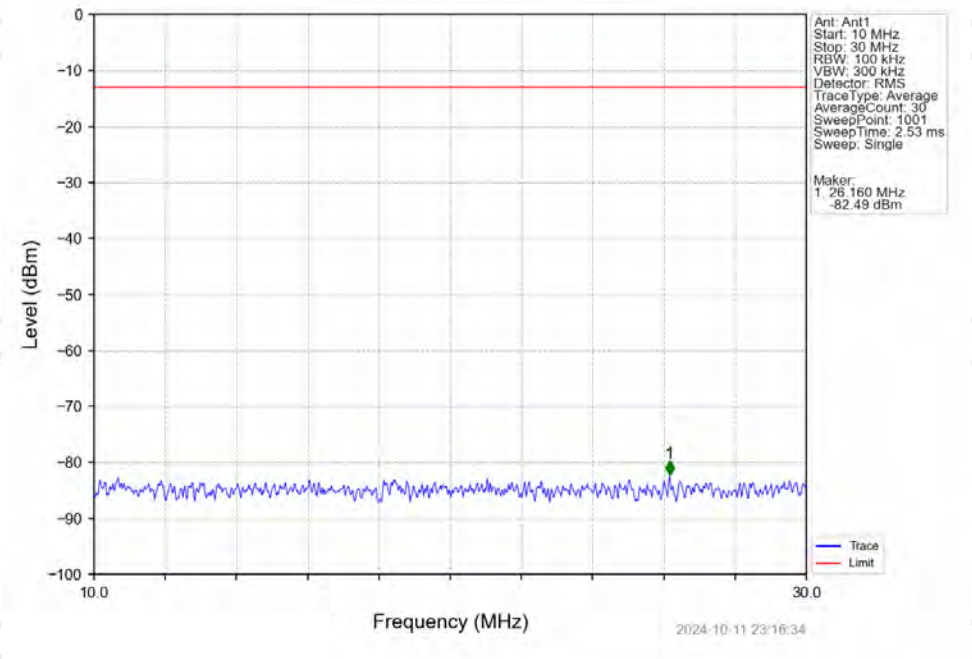
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



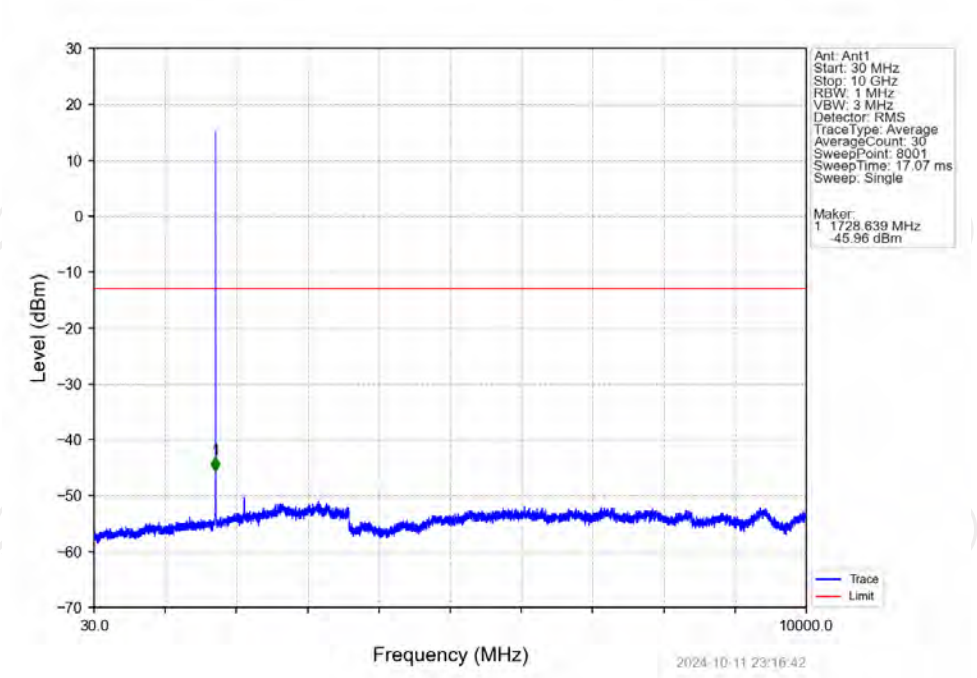
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



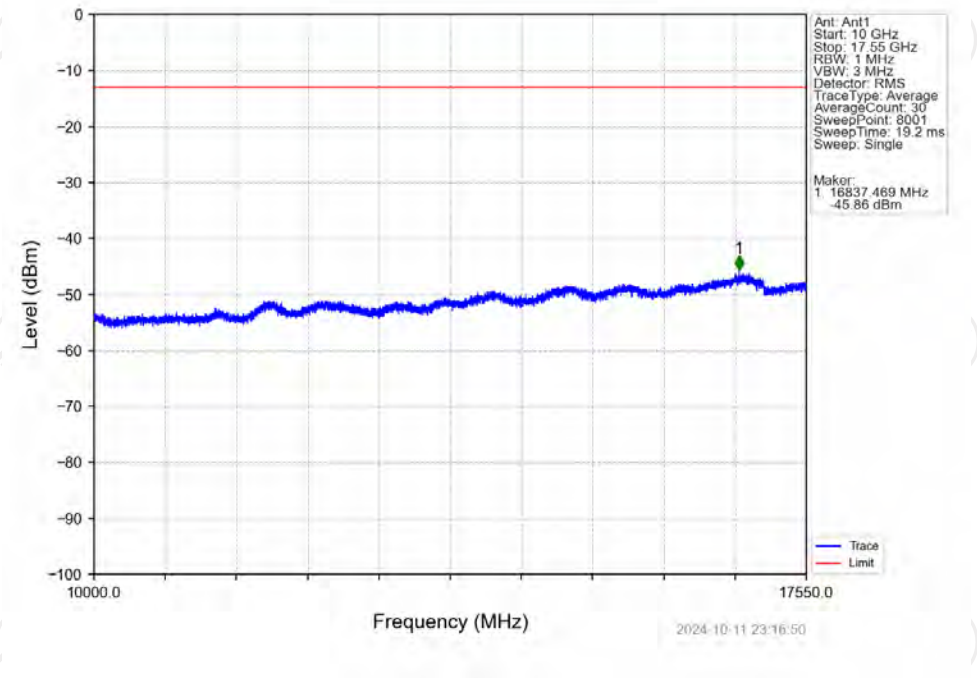
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



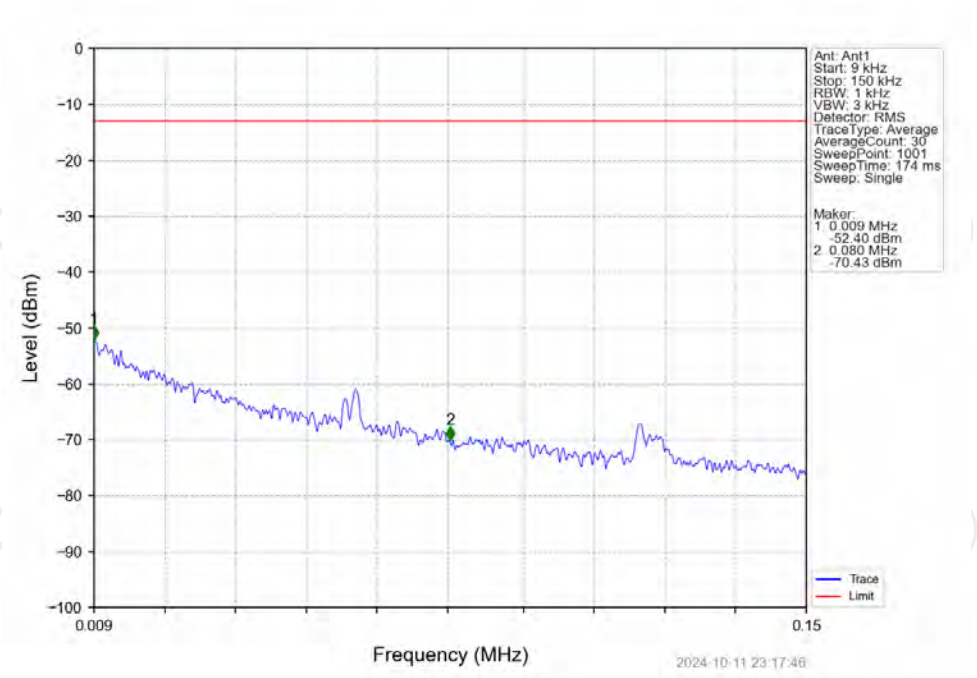
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



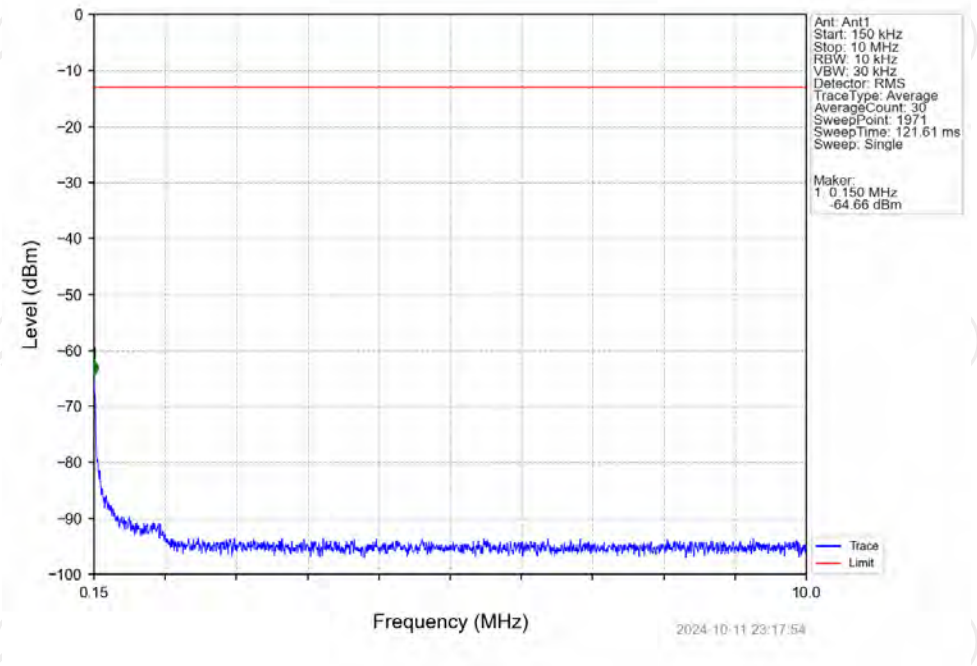
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



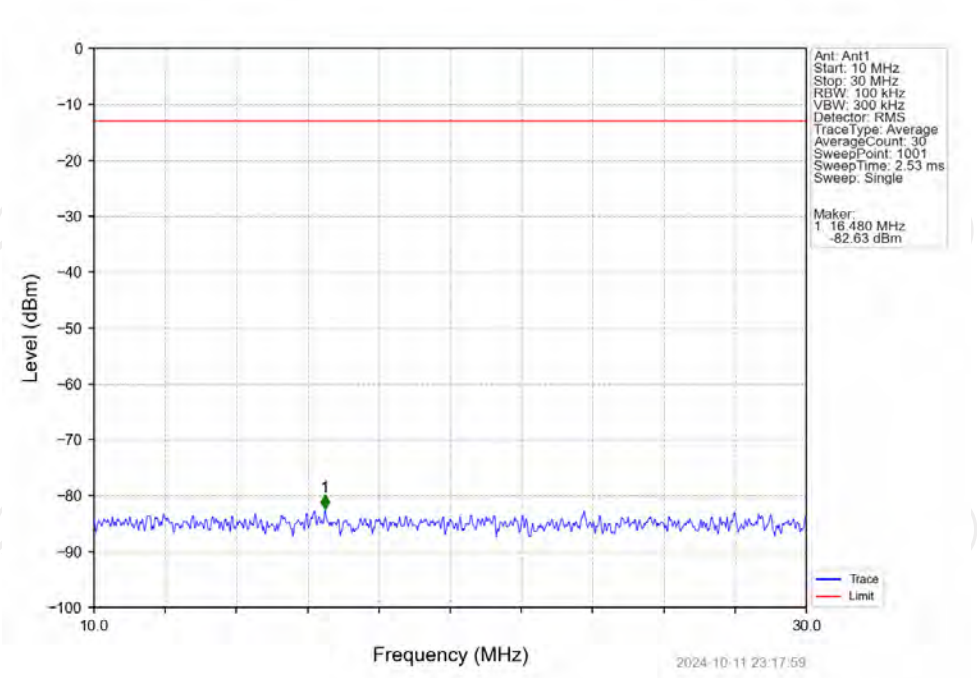
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



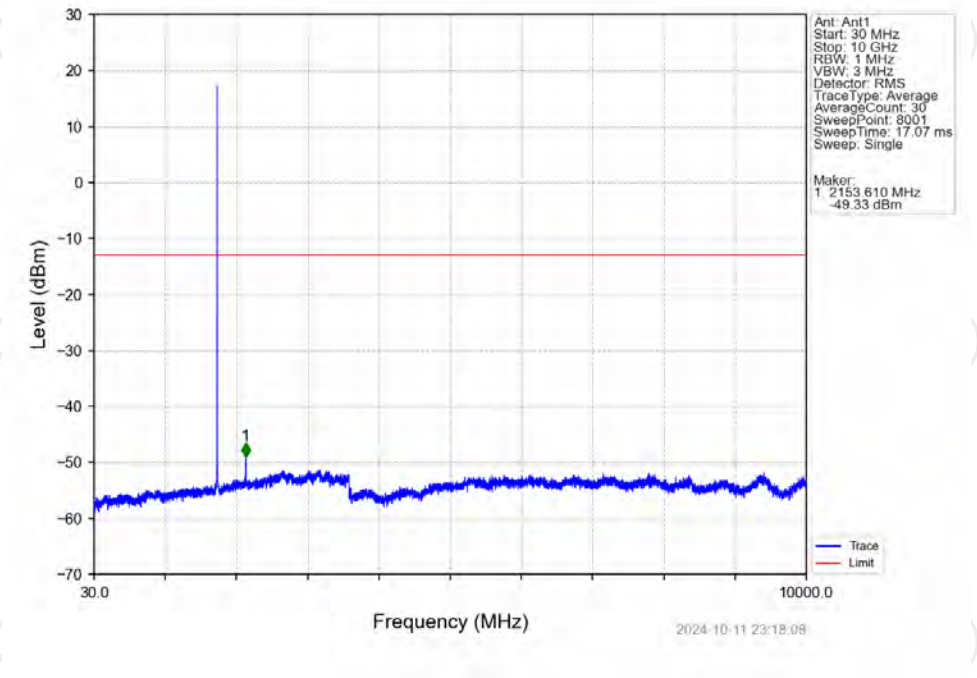
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



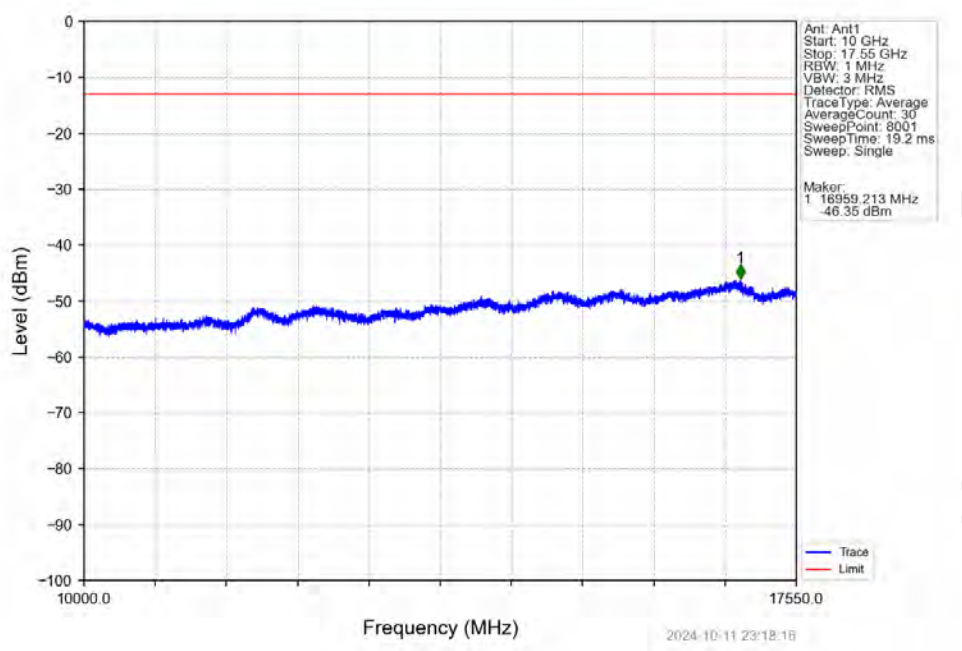
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



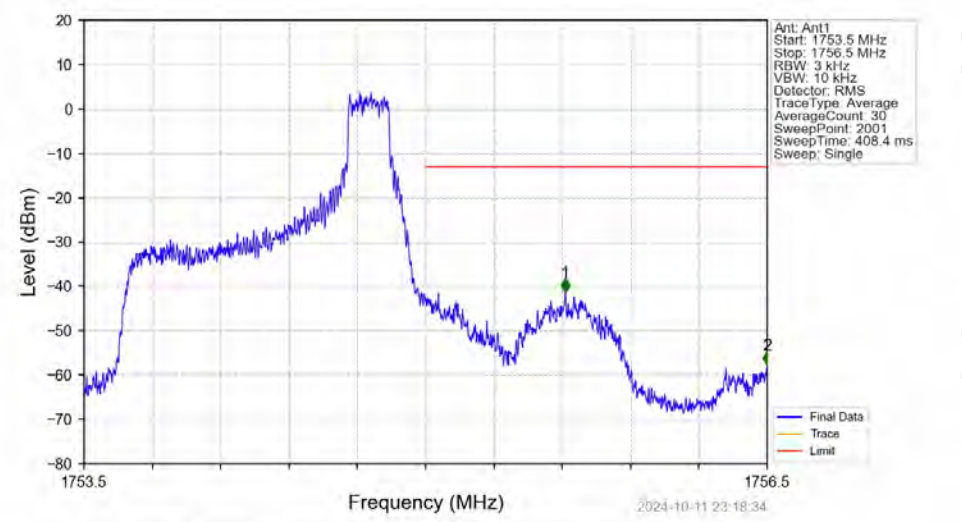
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

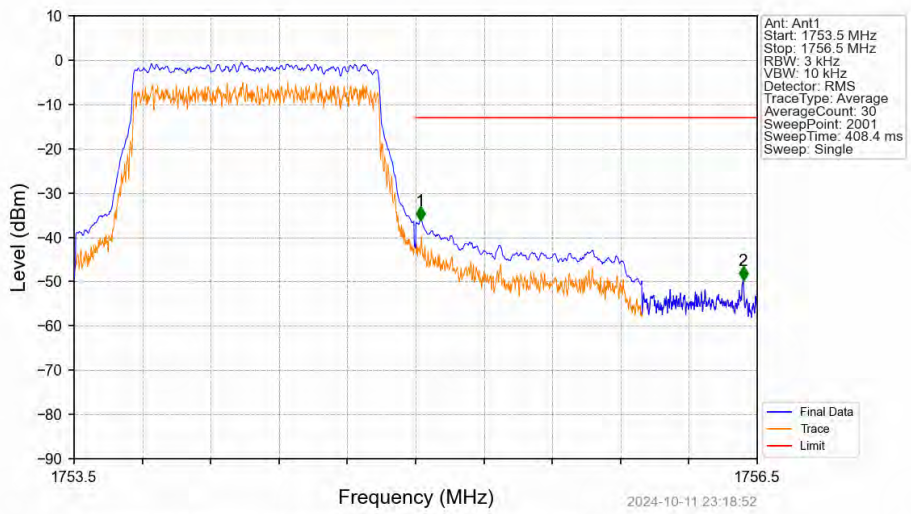


Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



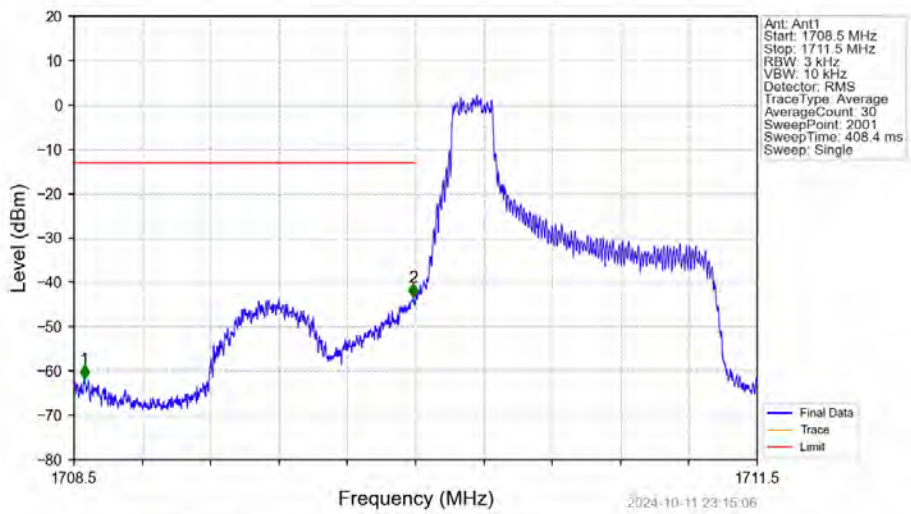
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.613	-41.35	-13	Pass
1756	1756.5	1	/	2	1756.500	-57.66	-13	Pass

Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



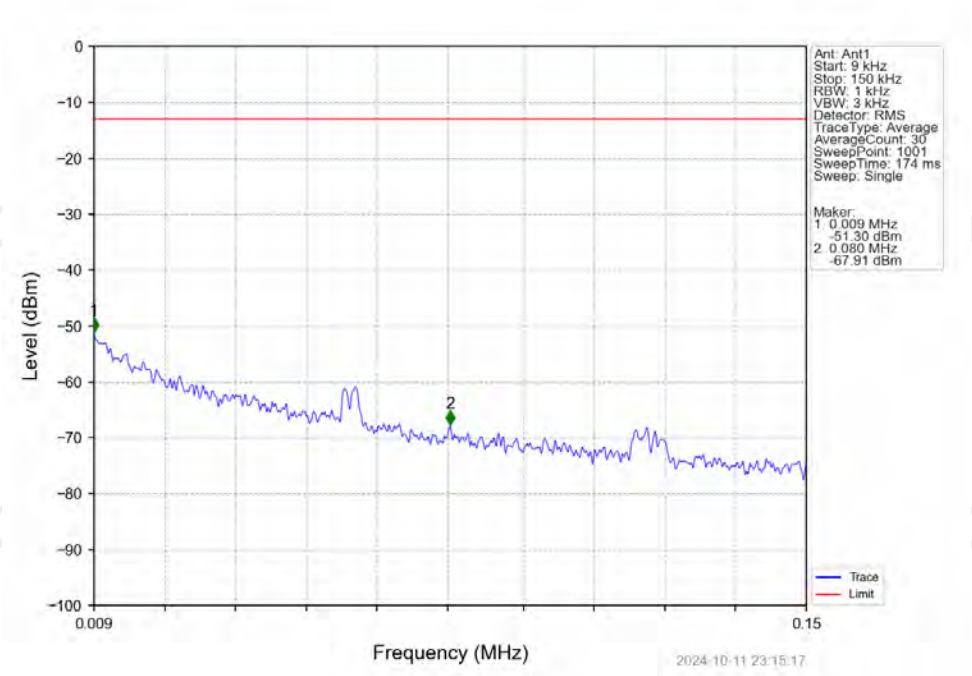
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.013	CHP	/	/	/	/	/
1755	1756	0.013	CHP	1	1755.021	-36.18	-13	Pass
1756	1756.5	1	CHP	2	1756.438	-49.74	-13	Pass

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

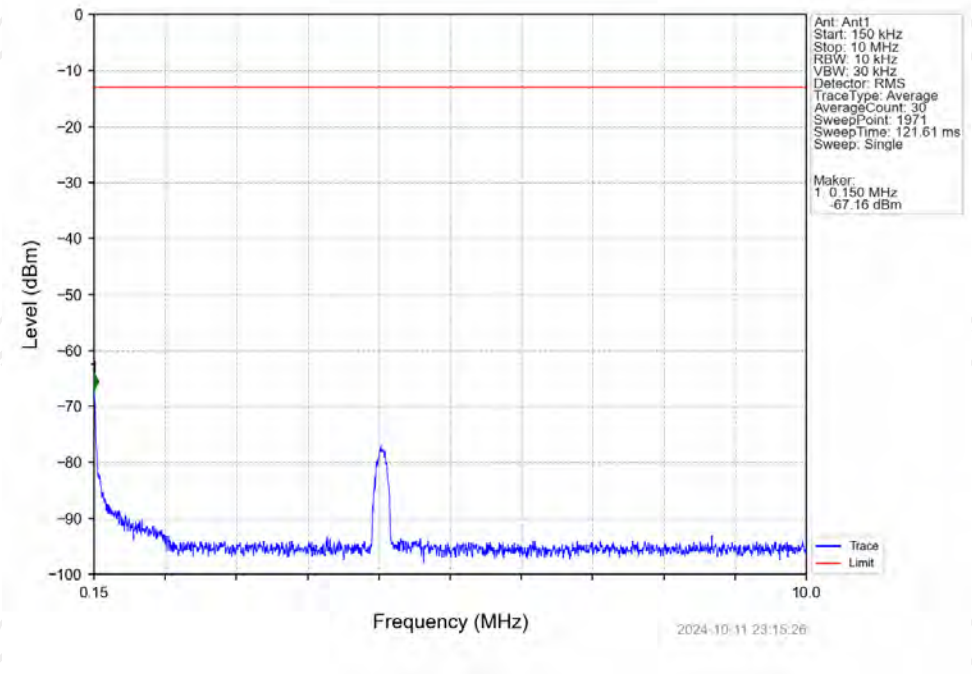


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.545	-61.76	-13	Pass
1709	1710	0.003	/	2	1709.989	-43.37	-13	Pass
1710	1711.5	0.003	/	/	/	/	/	/

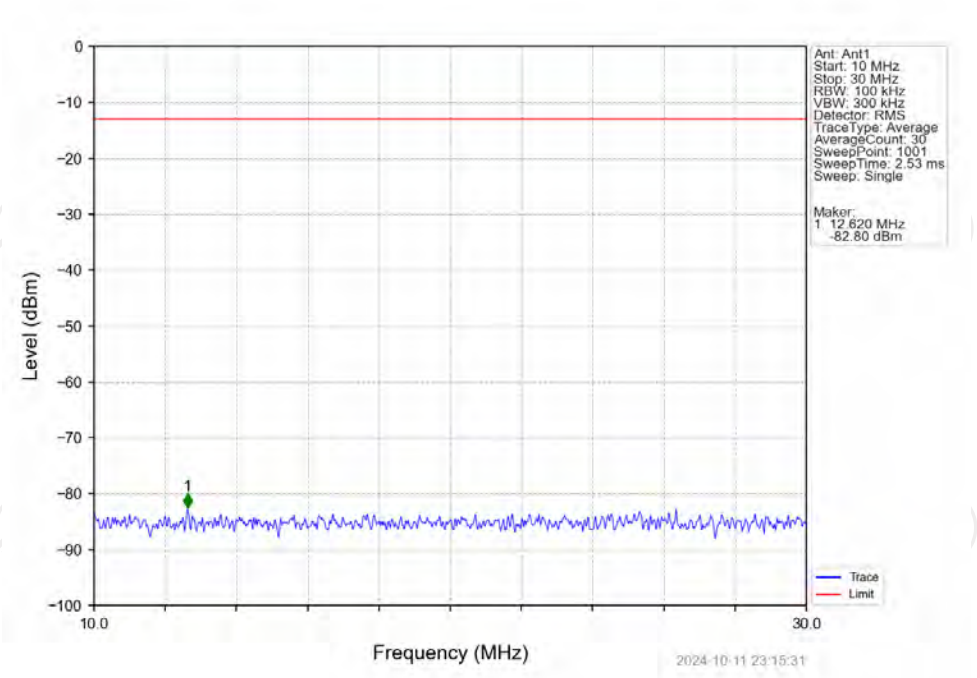
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



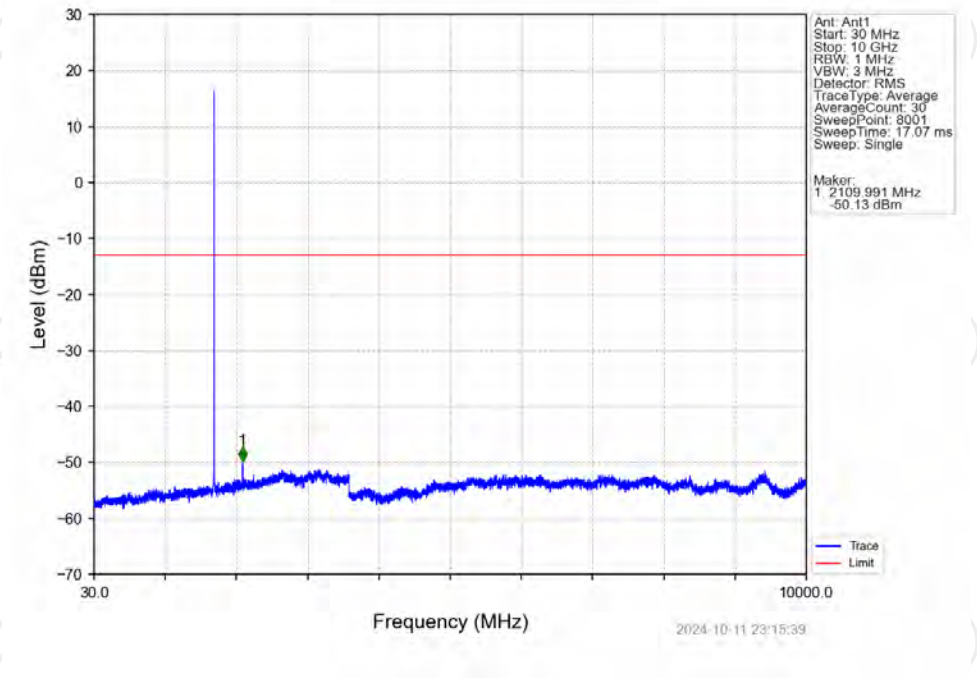
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



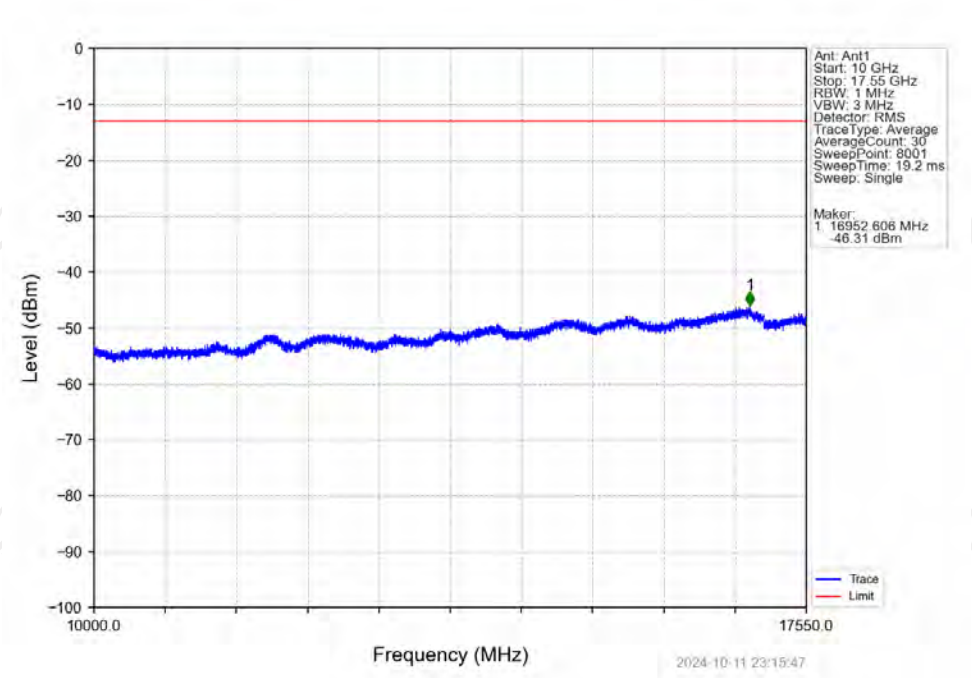
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



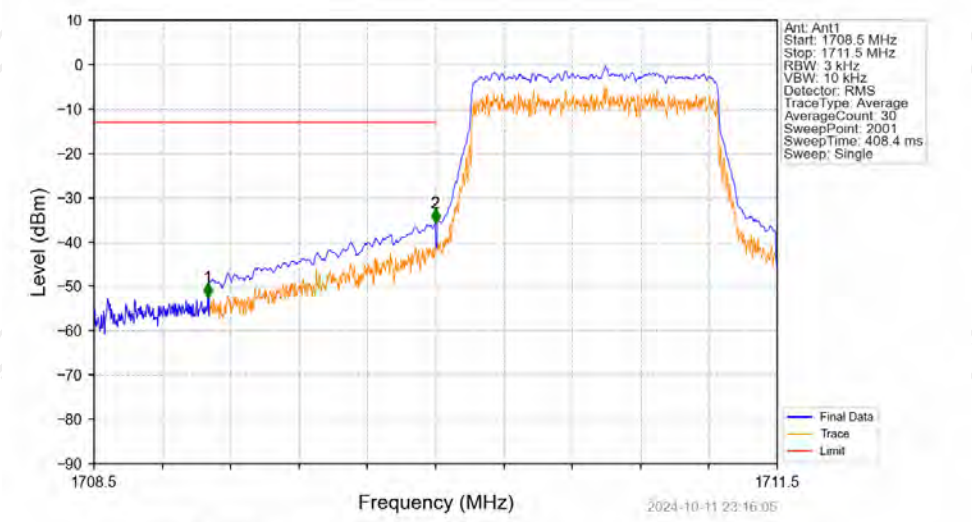
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

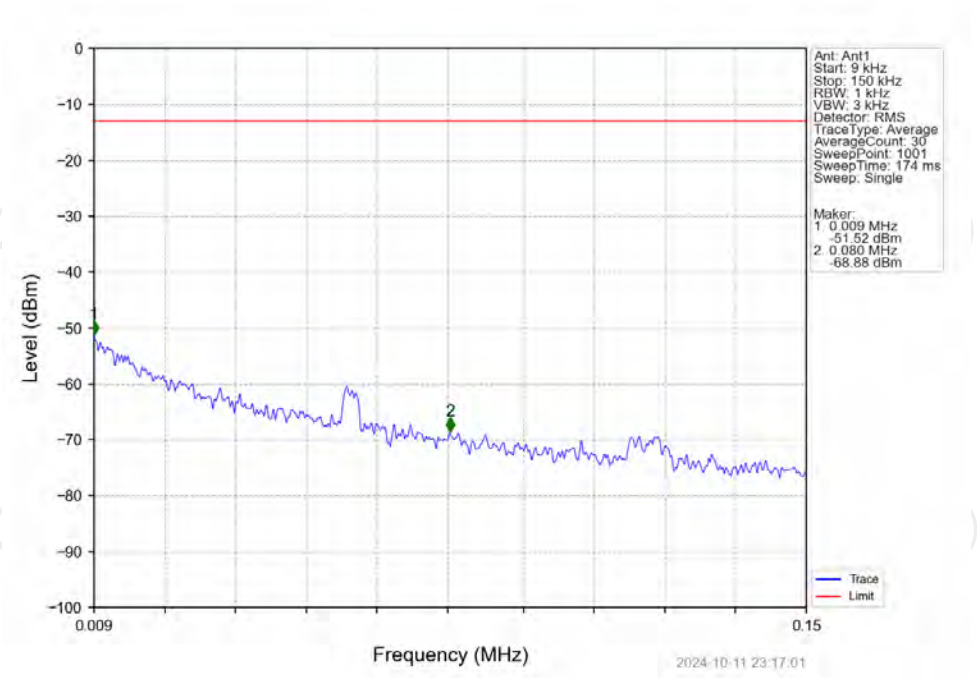


Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV

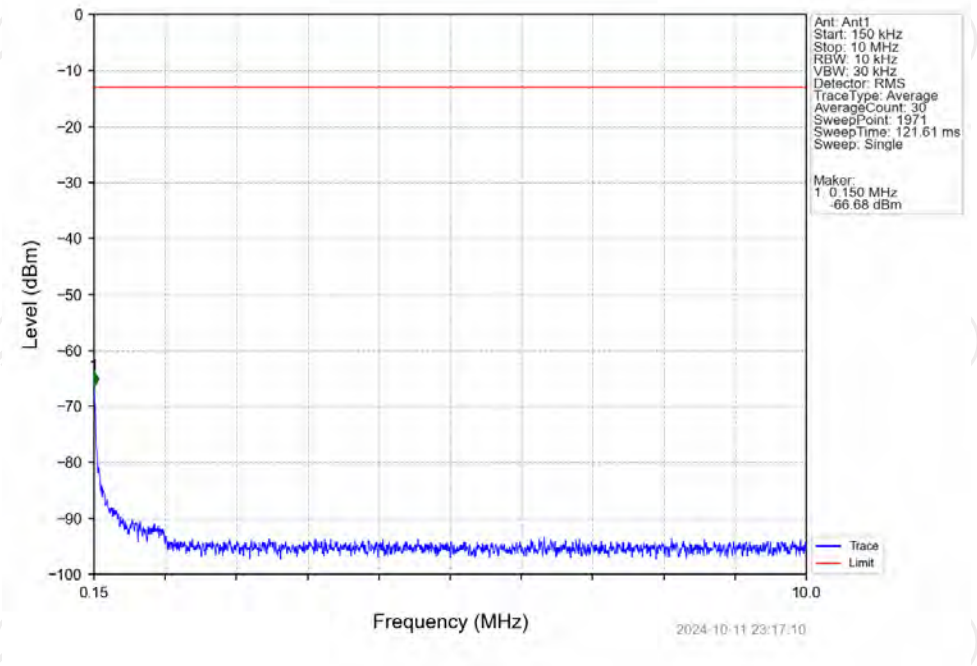


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.999	-52.40	-13	Pass
1709	1710	0.013	CHP	2	1709.998	-35.72	-13	Pass
1710	1711.5	0.013	CHP	/	/	/	/	/

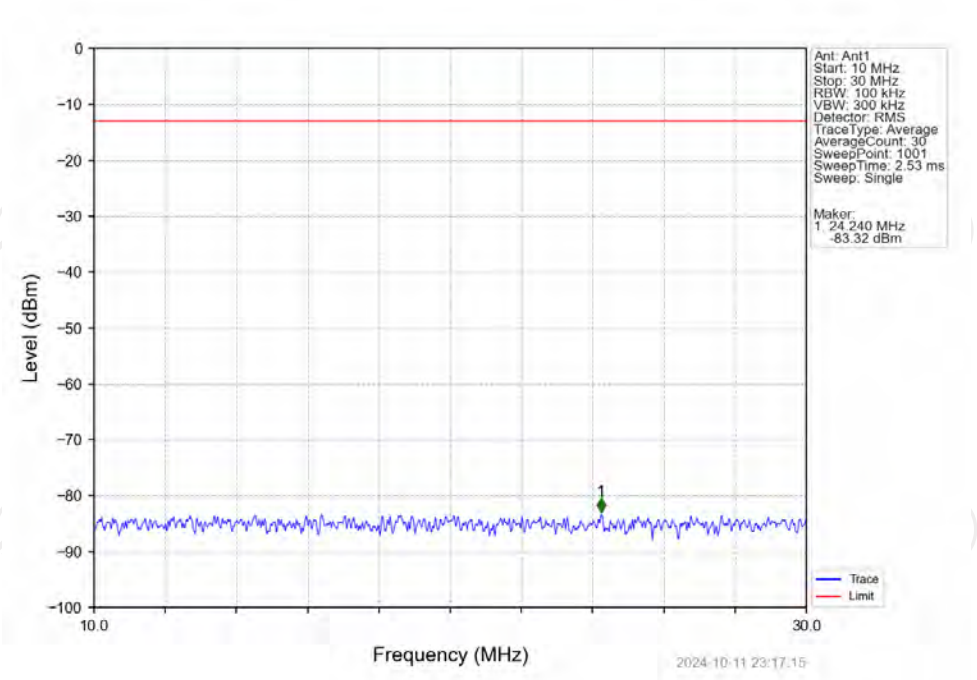
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



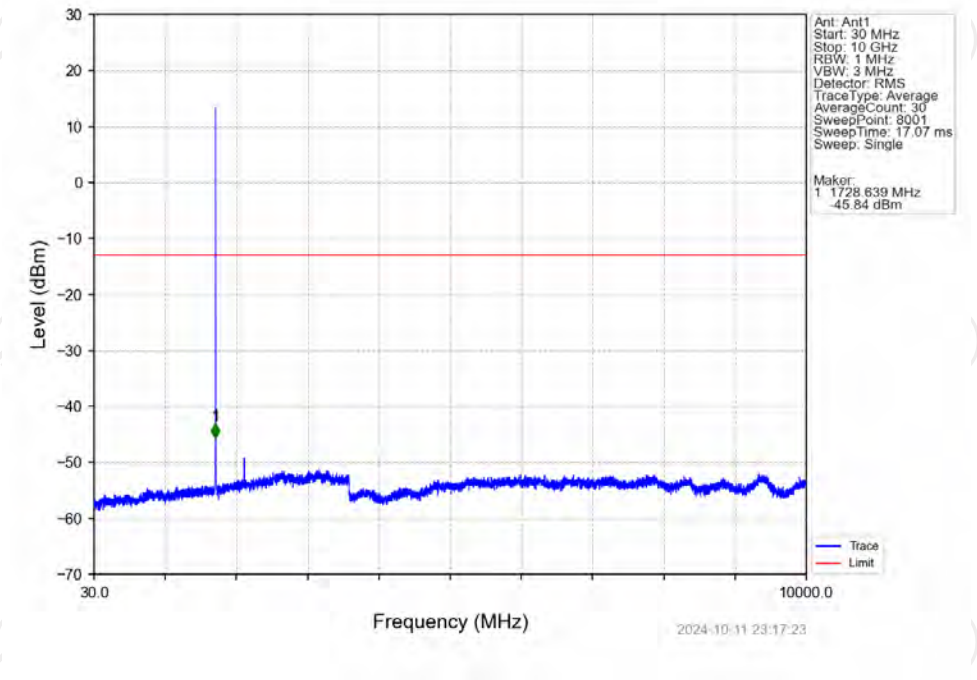
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



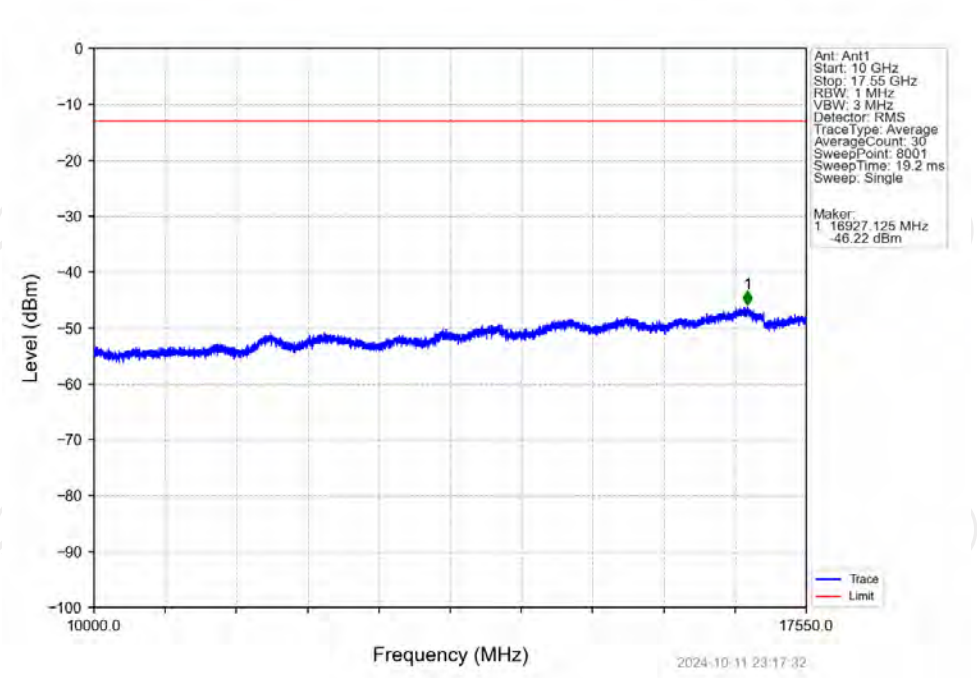
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



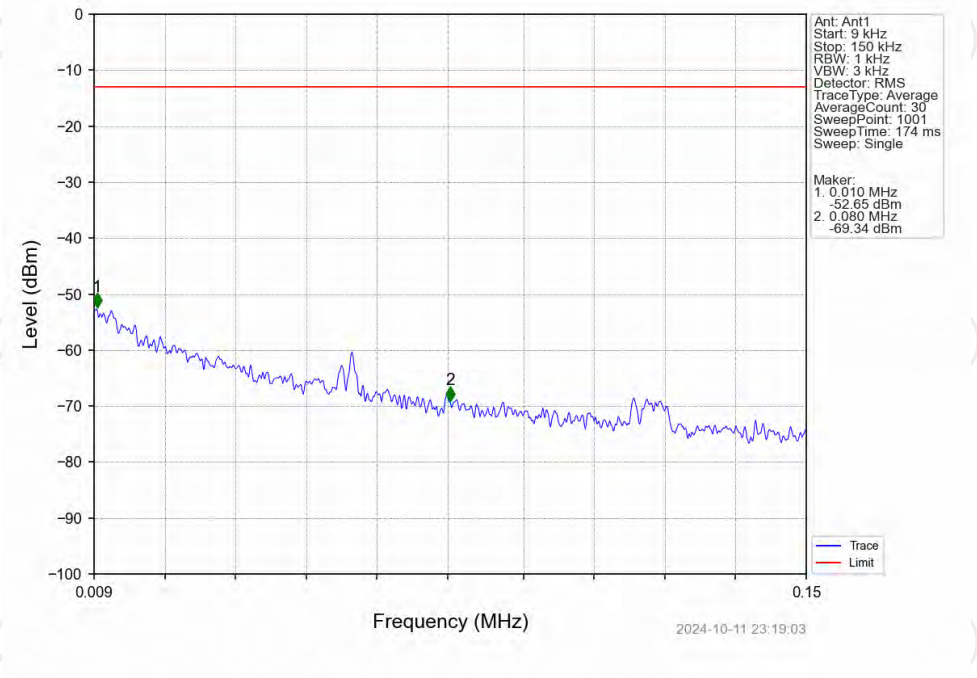
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



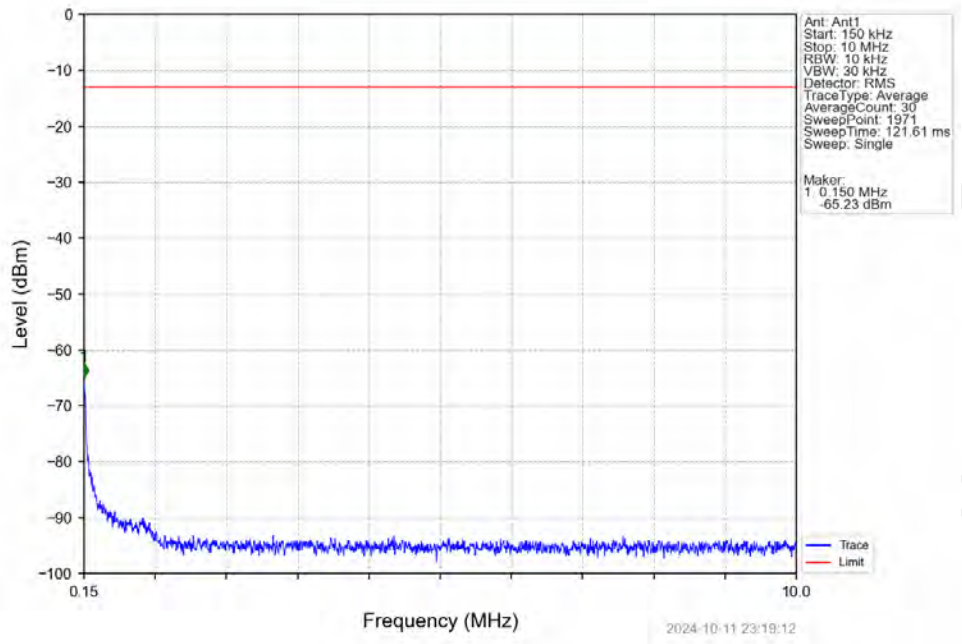
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



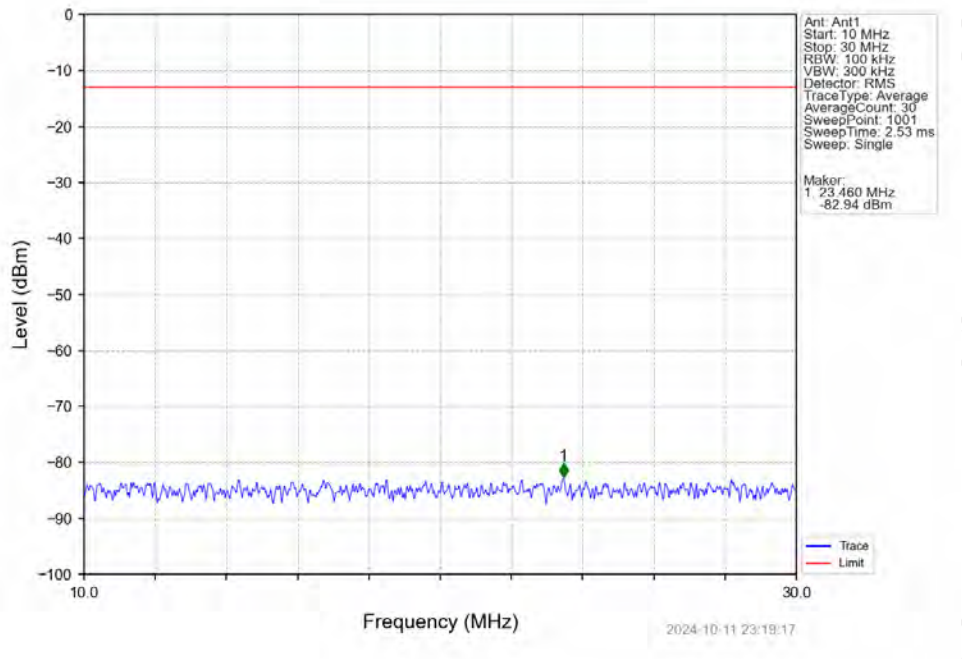
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



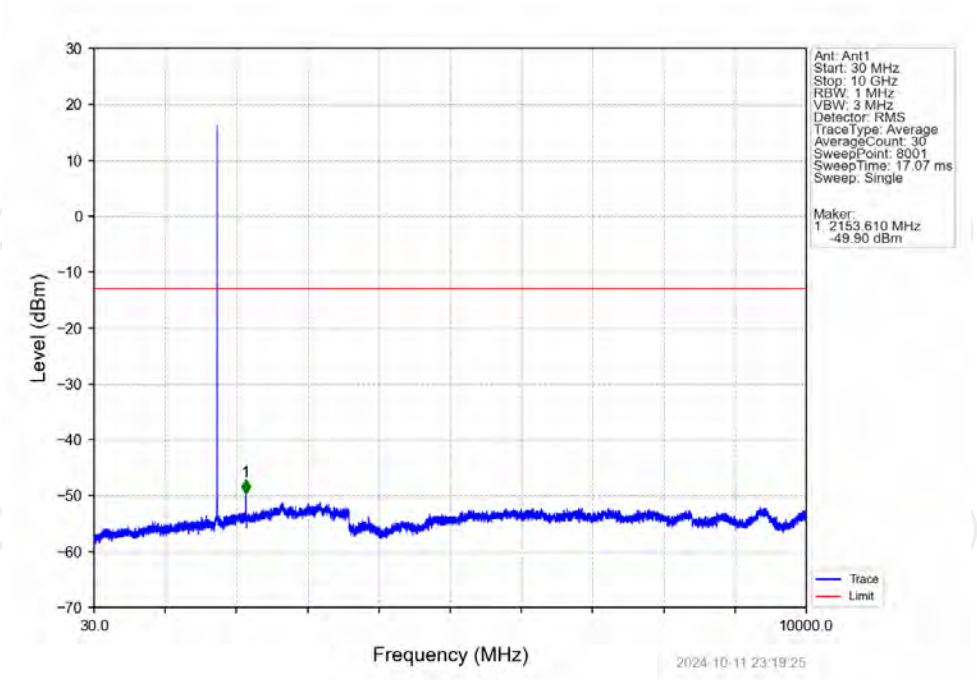
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



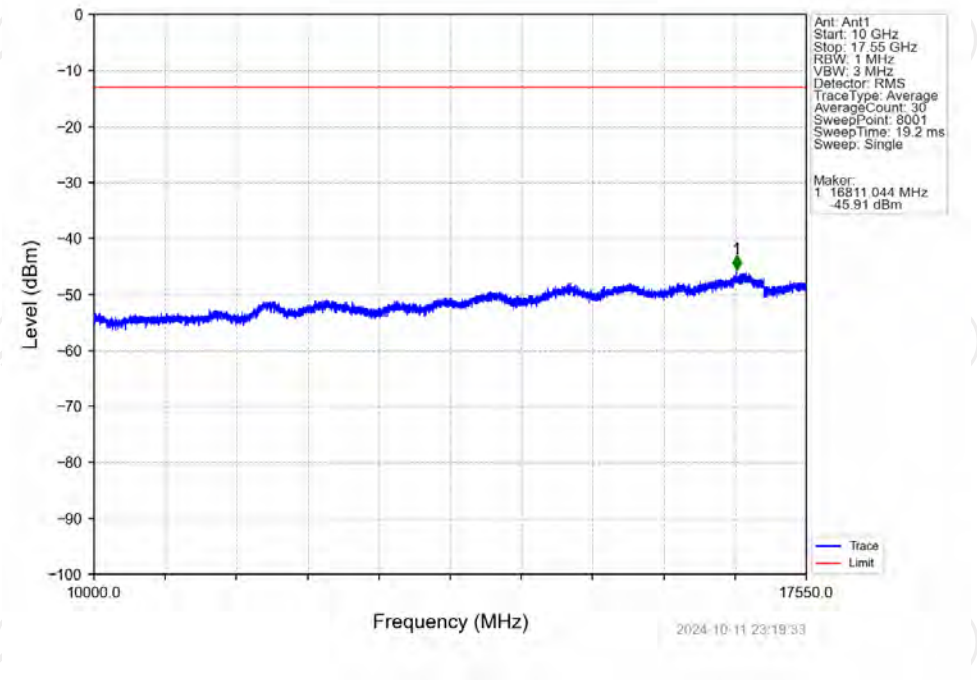
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



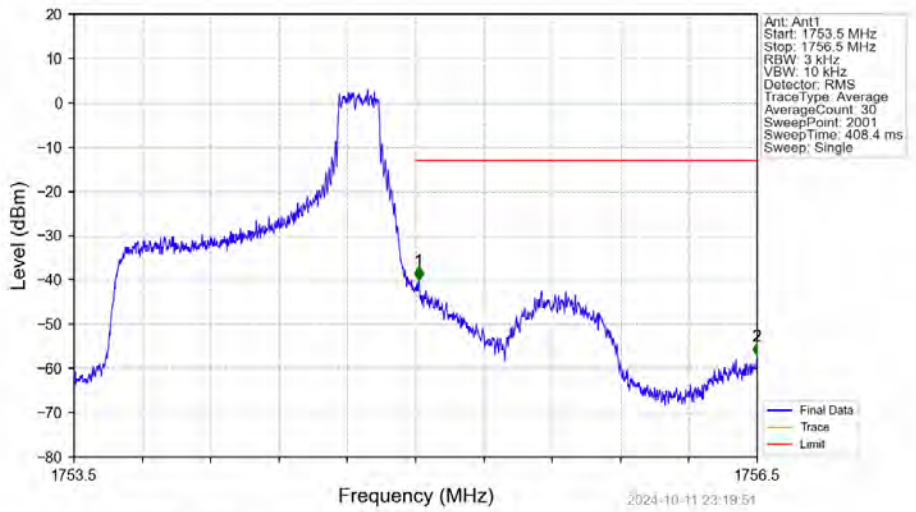
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV

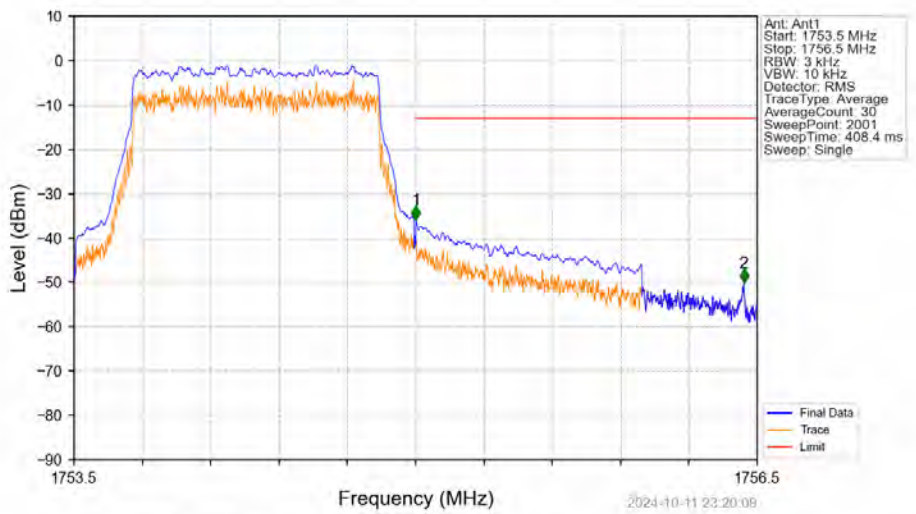


Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.014	-40.09	-13	Pass
1756	1756.5	1	/	2	1756.498	-57.20	-13	Pass

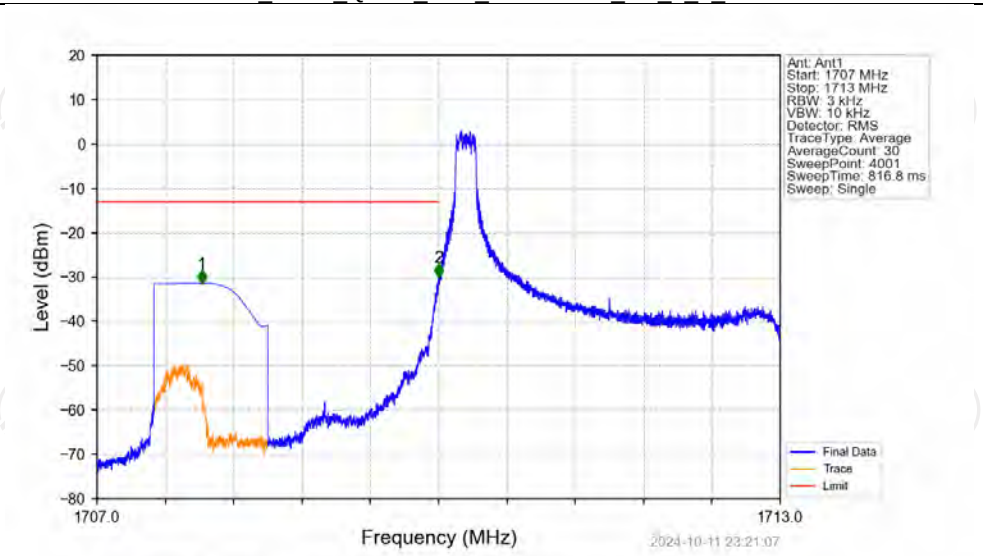
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1753.5	1755	0.013	CHP	/	/	/	/	/
1755	1756	0.013	CHP	1	1755.002	-35.80	-13	Pass
1756	1756.5	1	CHP	2	1756.441	-50.14	-13	Pass

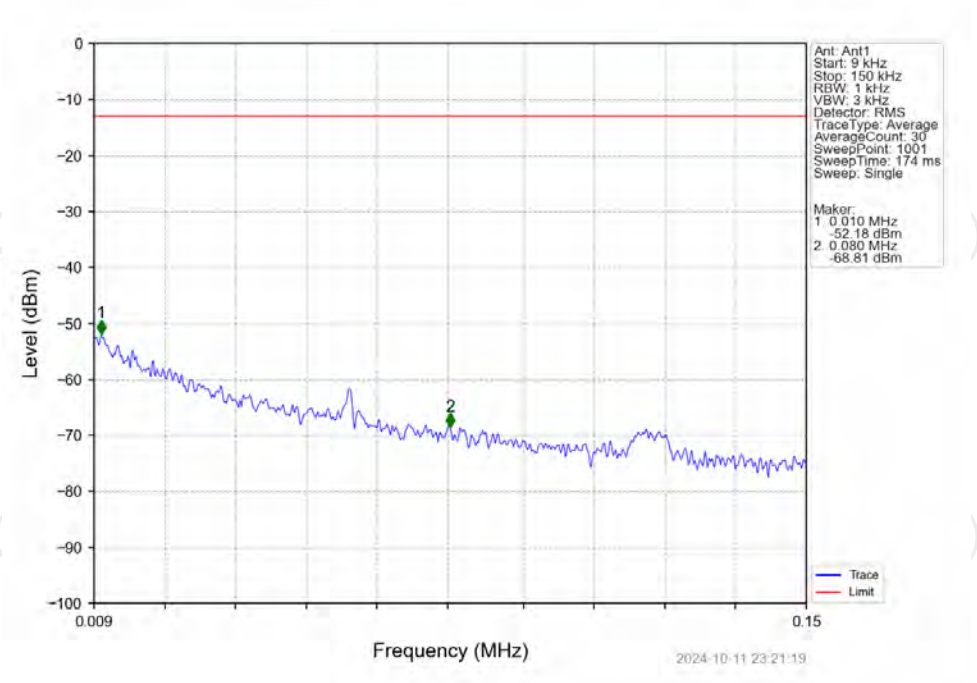
6.2.2 B4_3MHz

Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

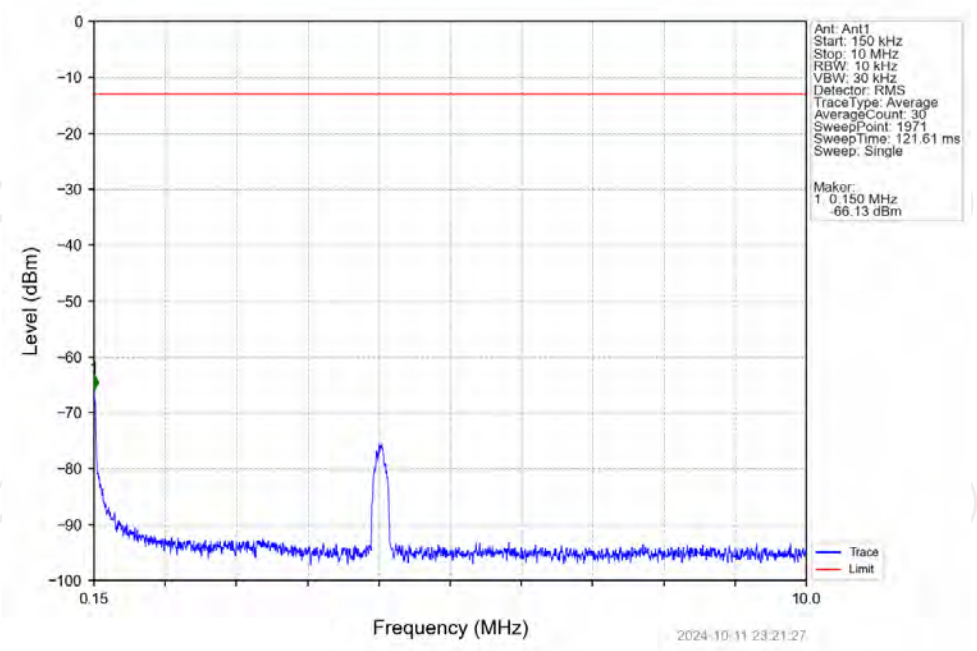


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1707.921	-31.47	-13	Pass
1709	1710	0.003	/	2	1709.998	-30.00	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

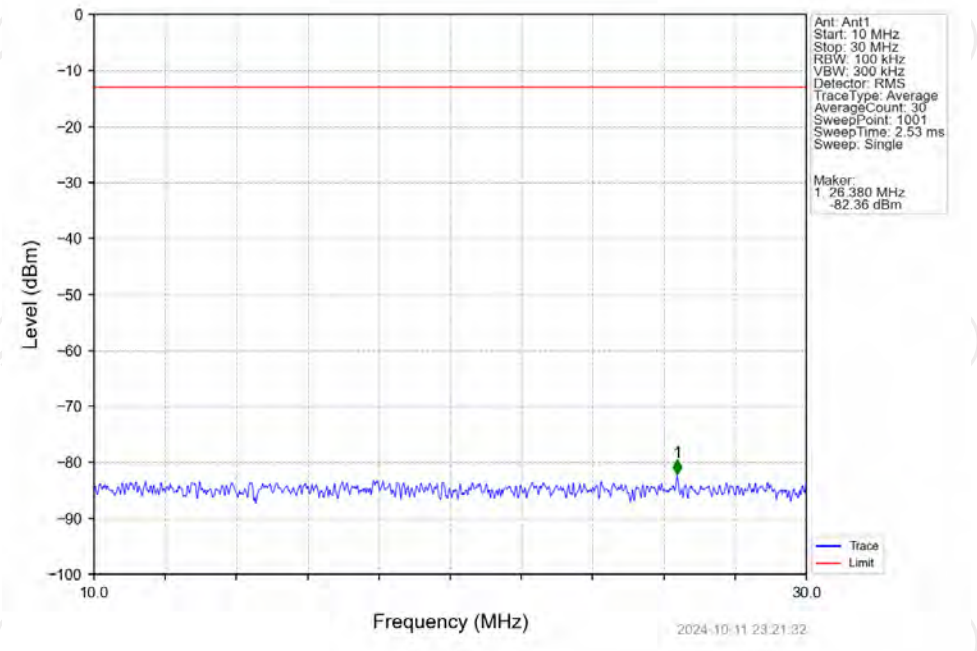
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



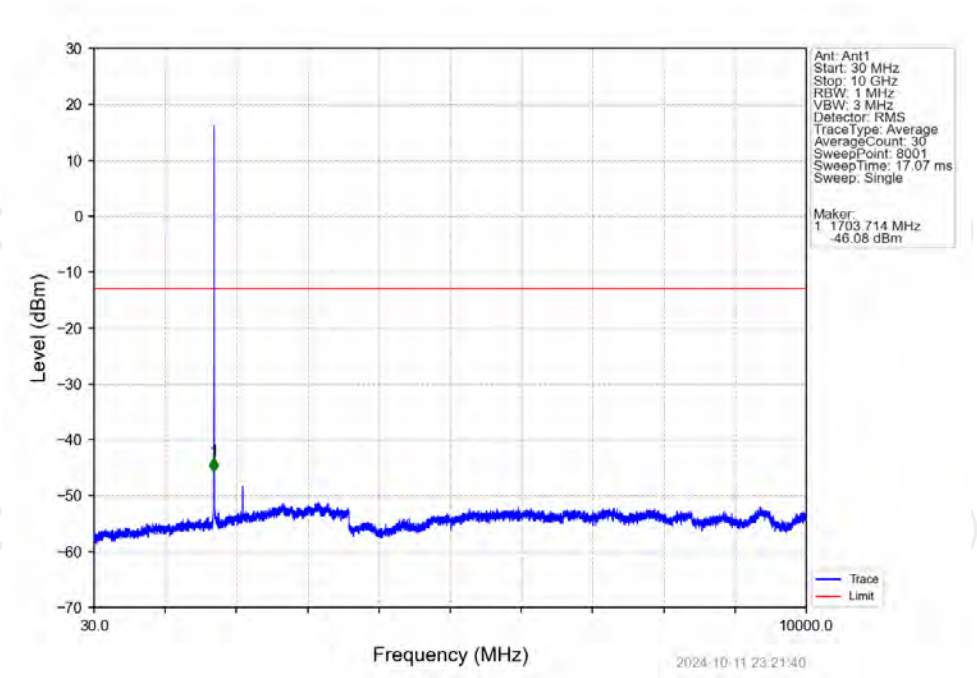
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



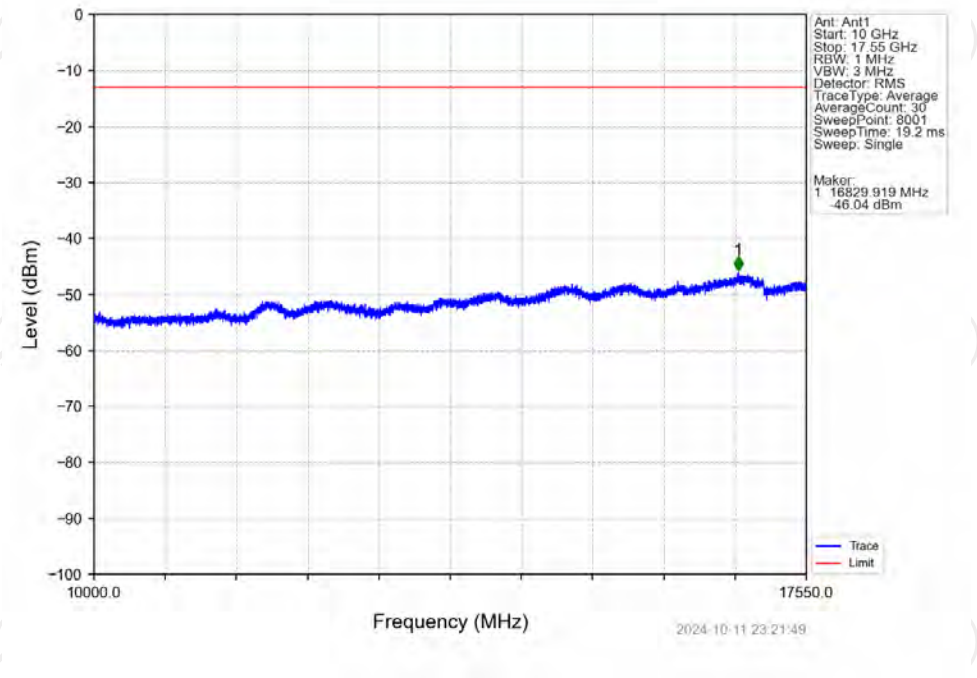
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



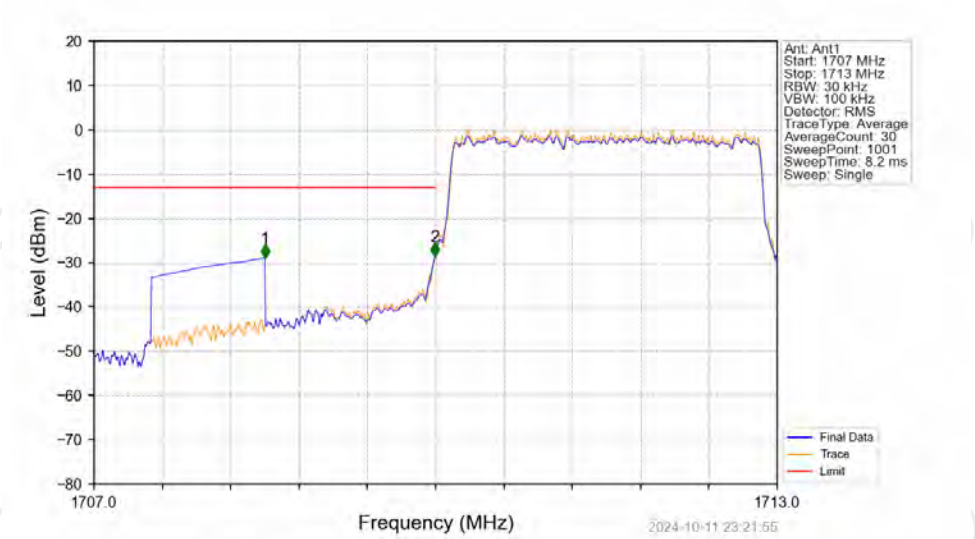
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

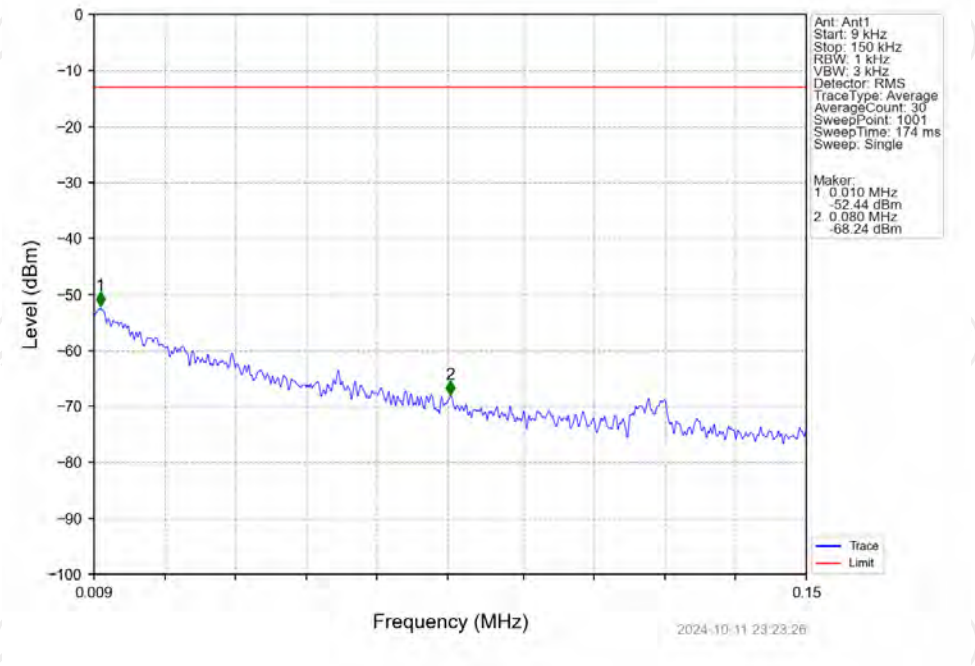


Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

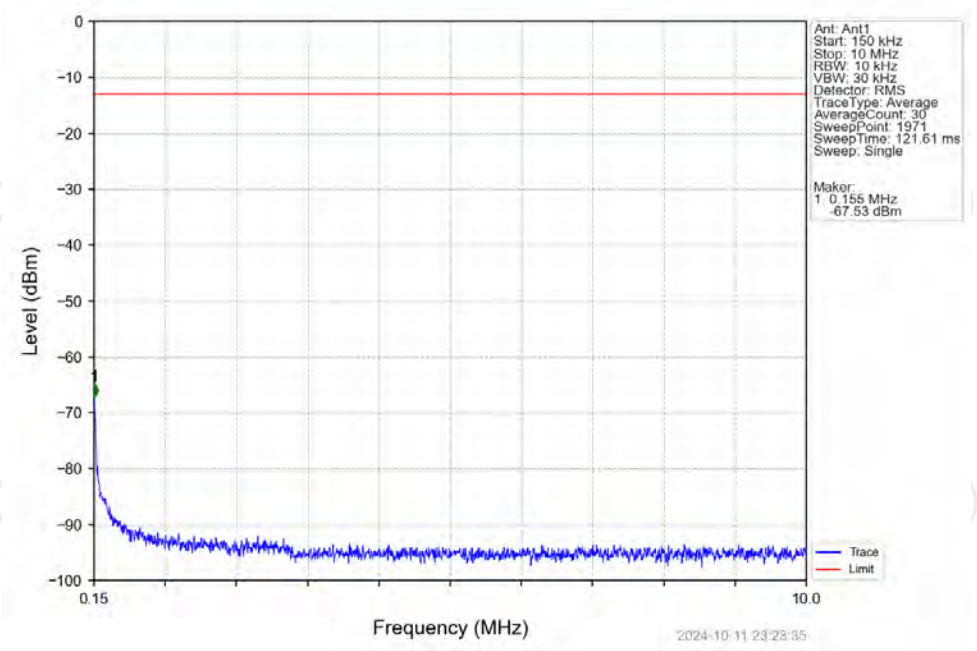


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-28.99	-13	Pass
1709	1710	0.031	CHP	2	1709.994	-28.56	-13	Pass
1710	1713	0.031	CHP	/	/	/	/	/

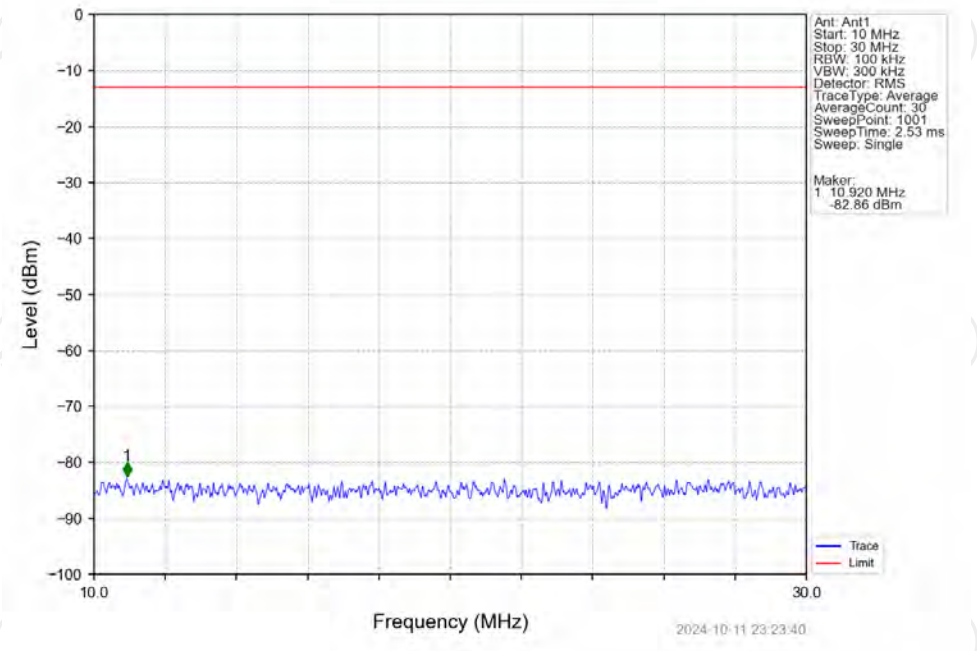
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



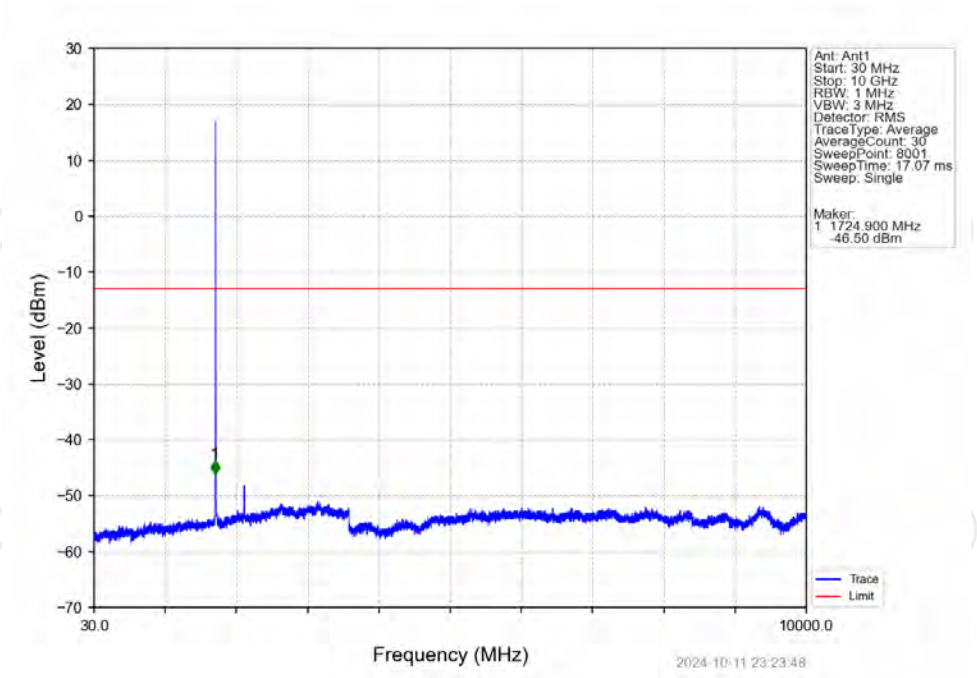
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



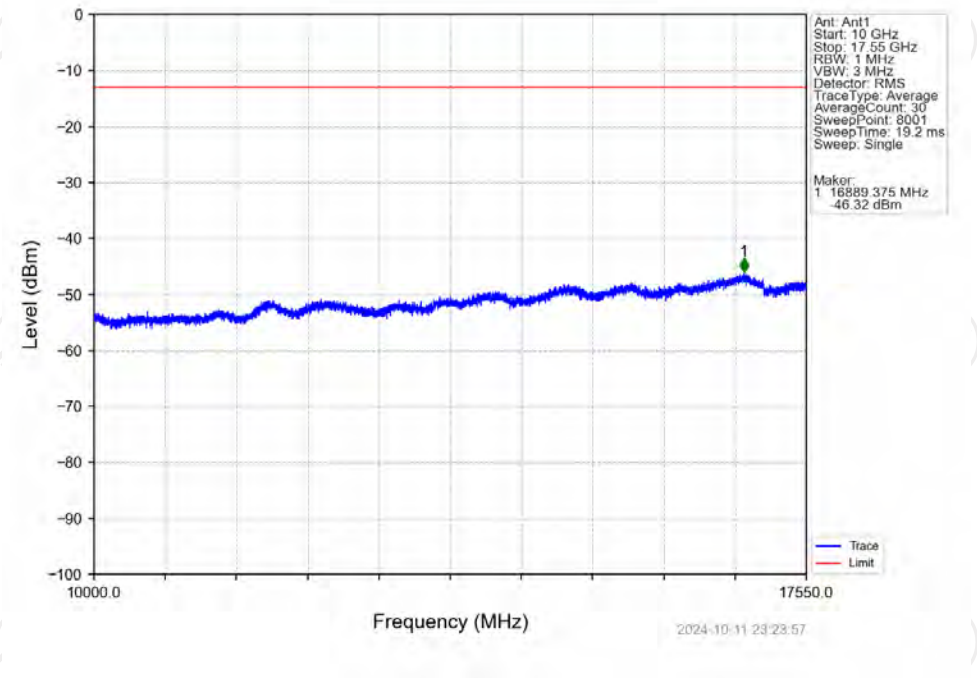
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



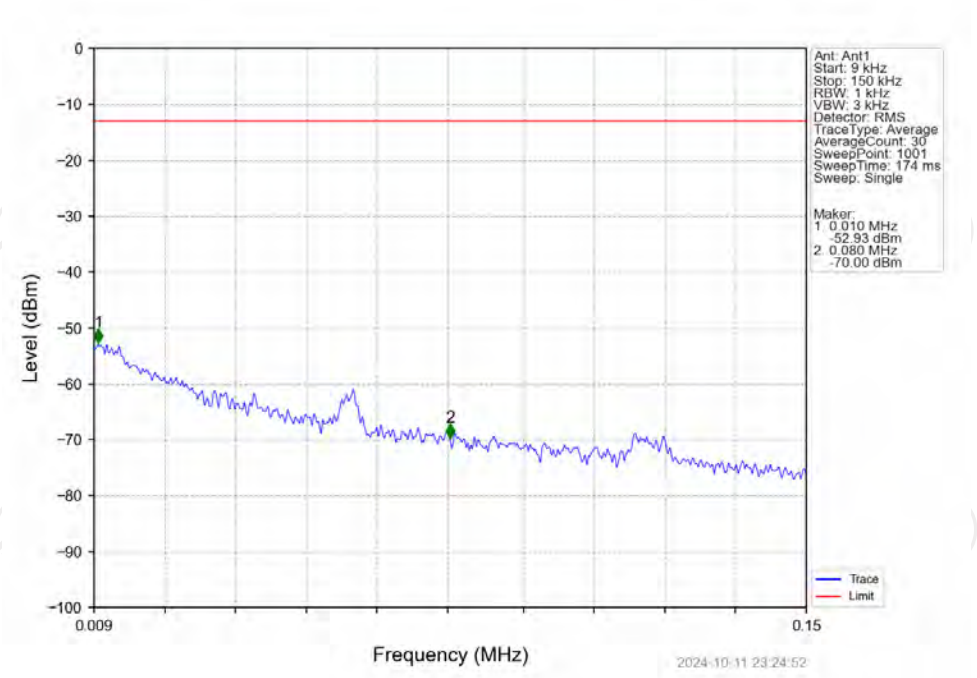
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



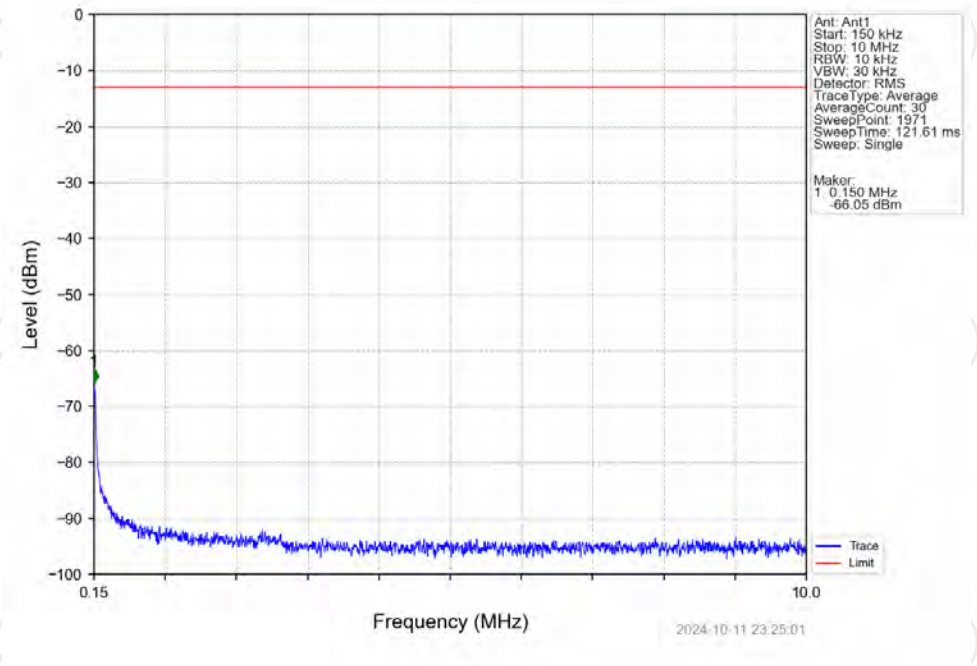
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



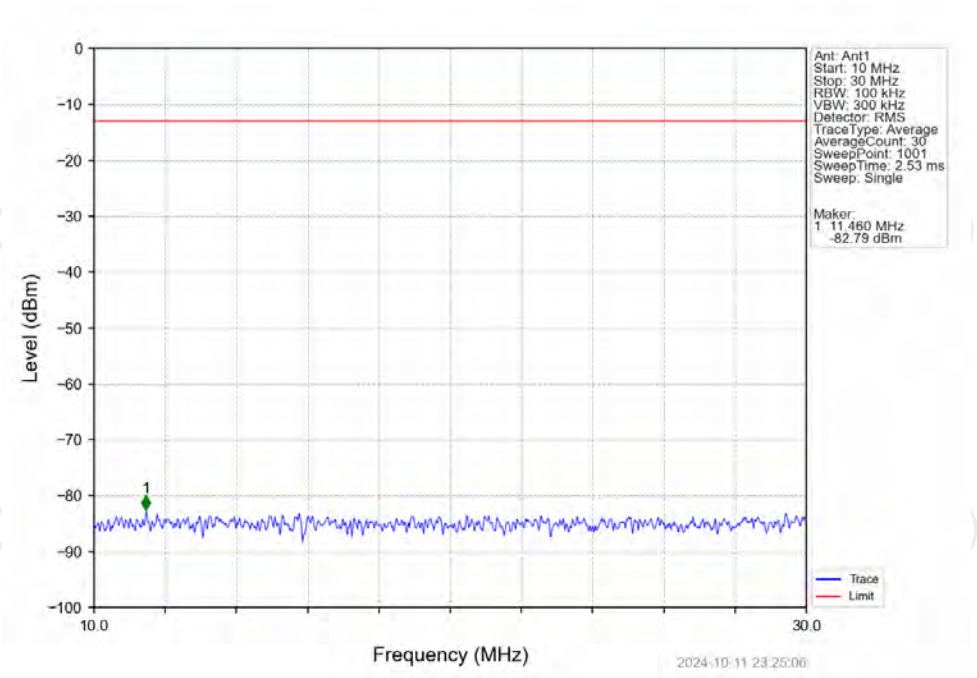
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



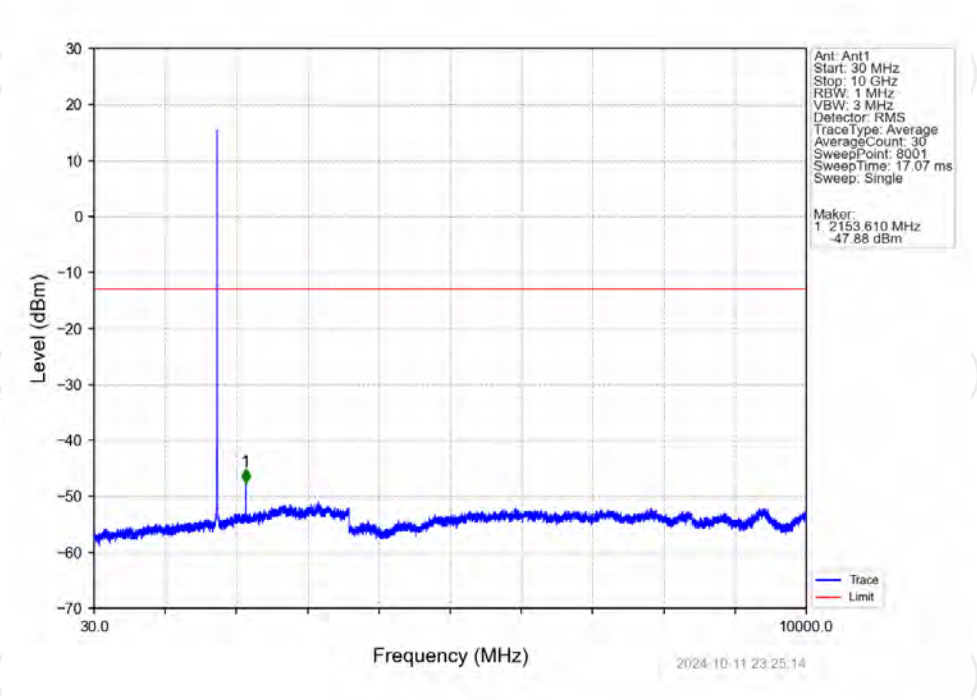
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



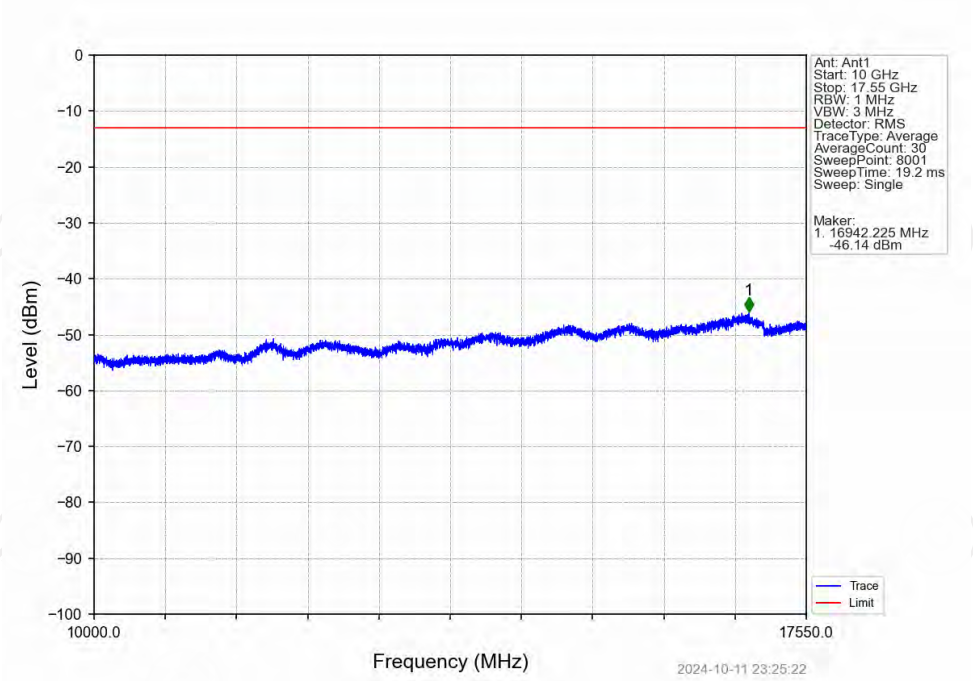
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



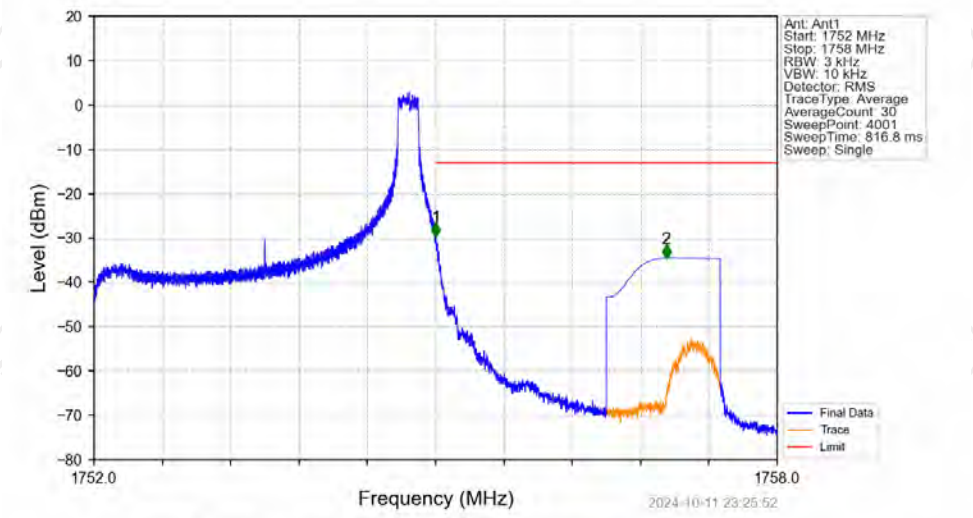
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV

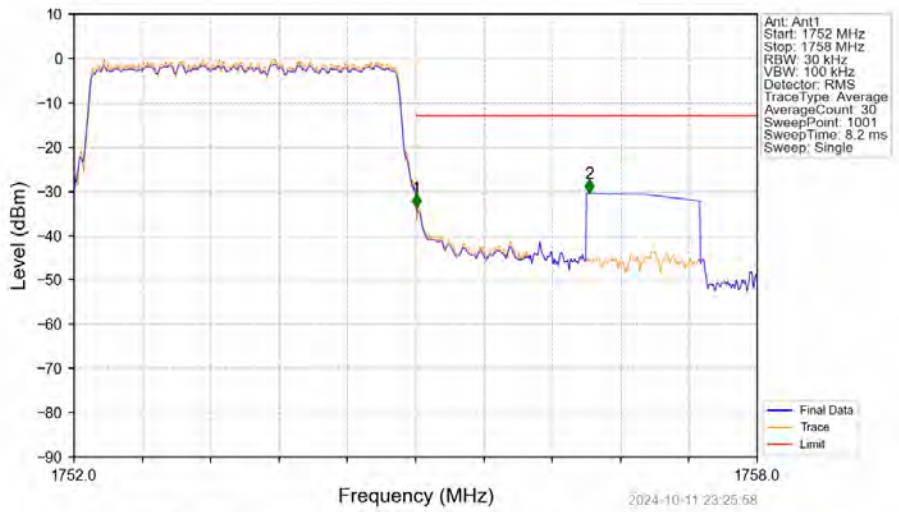


Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



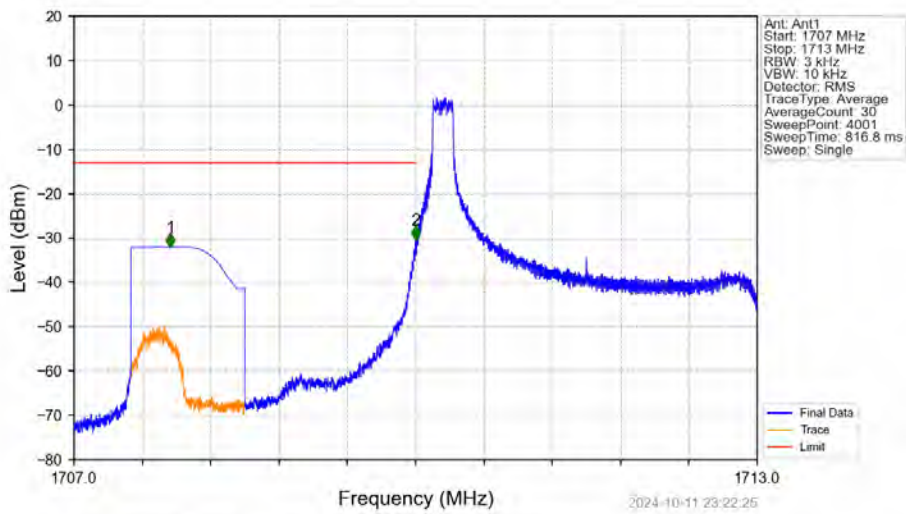
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-29.63	-13	Pass
1756	1758	1	CHP	2	1757.025	-34.53	-13	Pass

Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



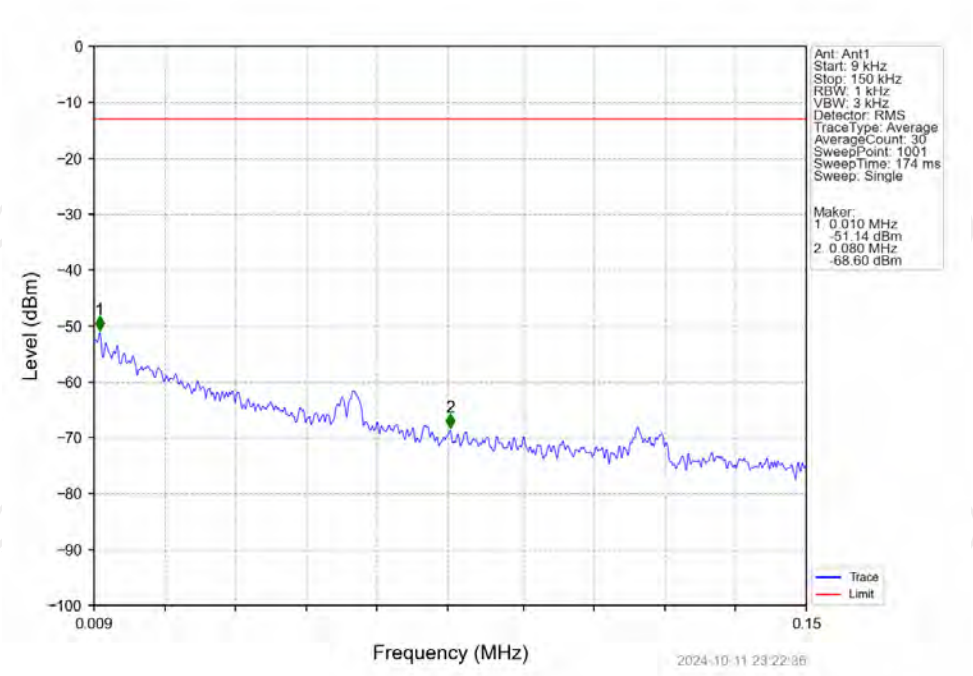
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.031	CHP	/	/	/	/	/
1755	1756	0.031	CHP	1	1755.006	-33.71	-13	Pass
1756	1758	1	CHP	2	1756.524	-30.42	-13	Pass

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

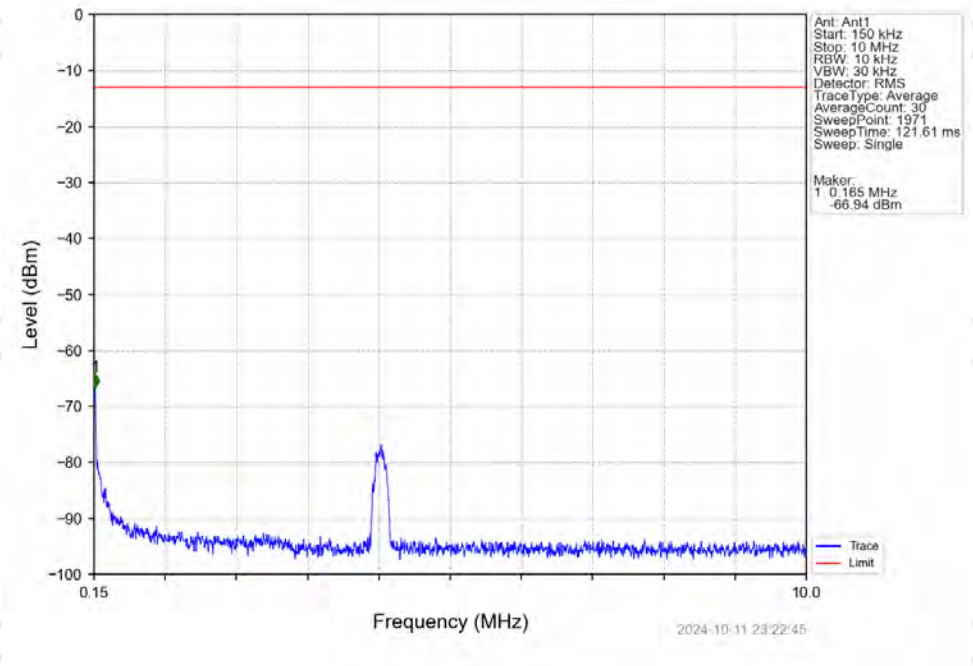


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1707.846	-32.03	-13	Pass
1709	1710	0.003	/	2	1709.998	-30.41	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

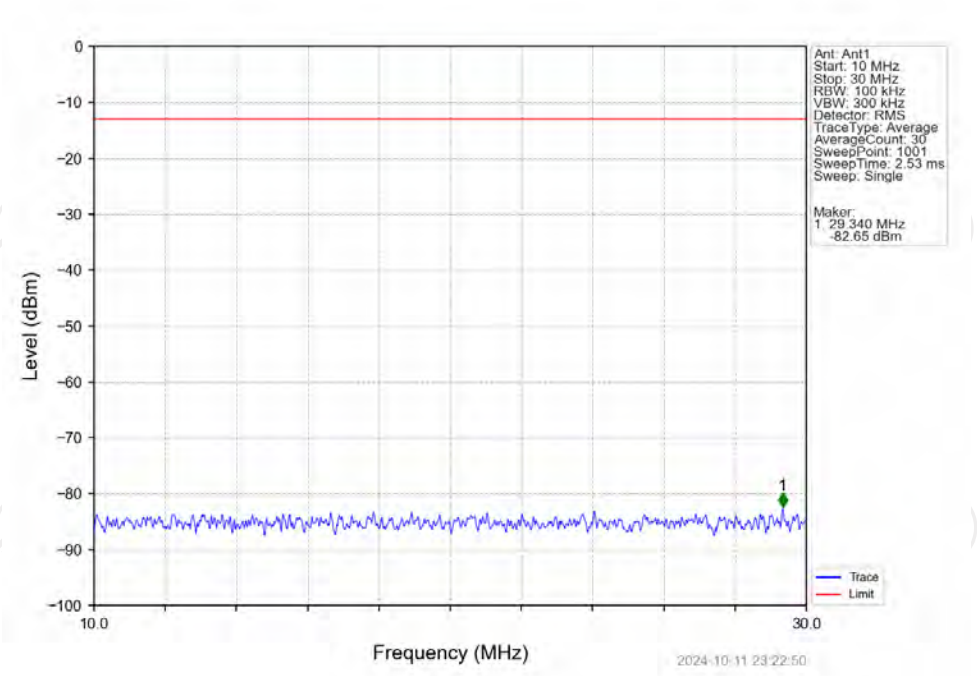
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



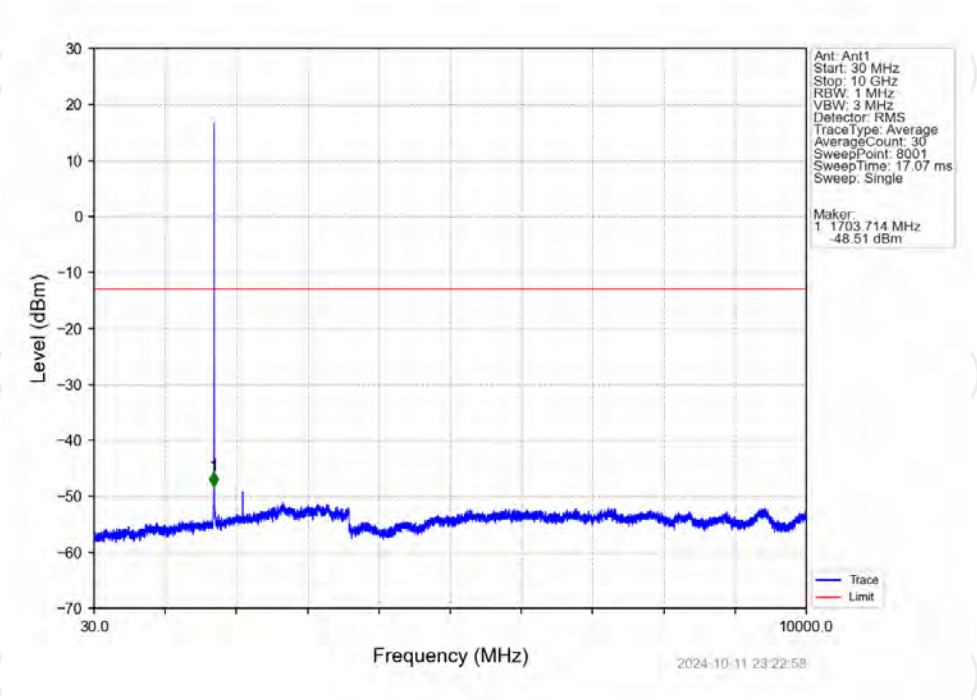
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



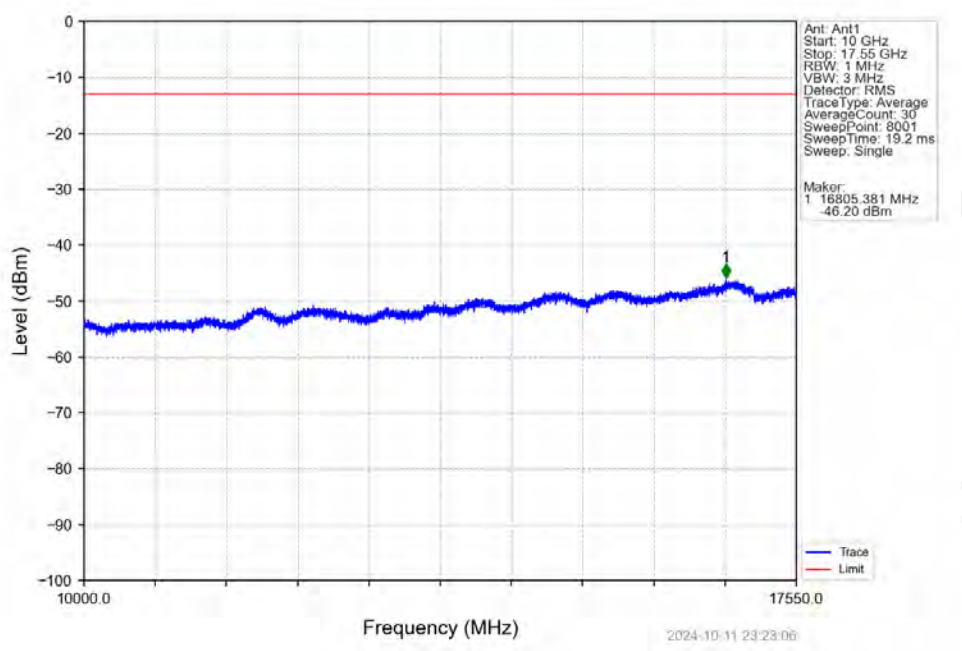
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



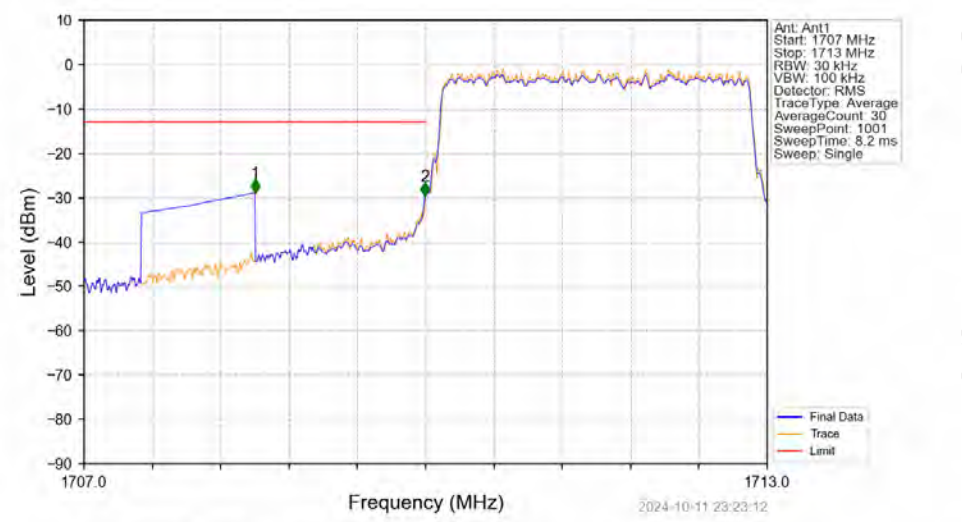
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

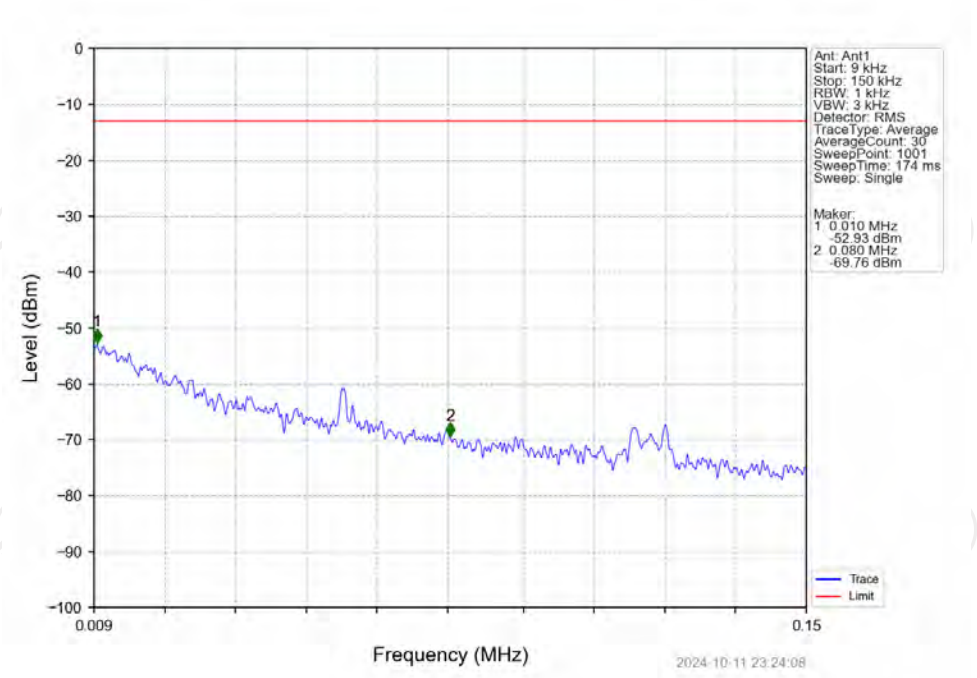


Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

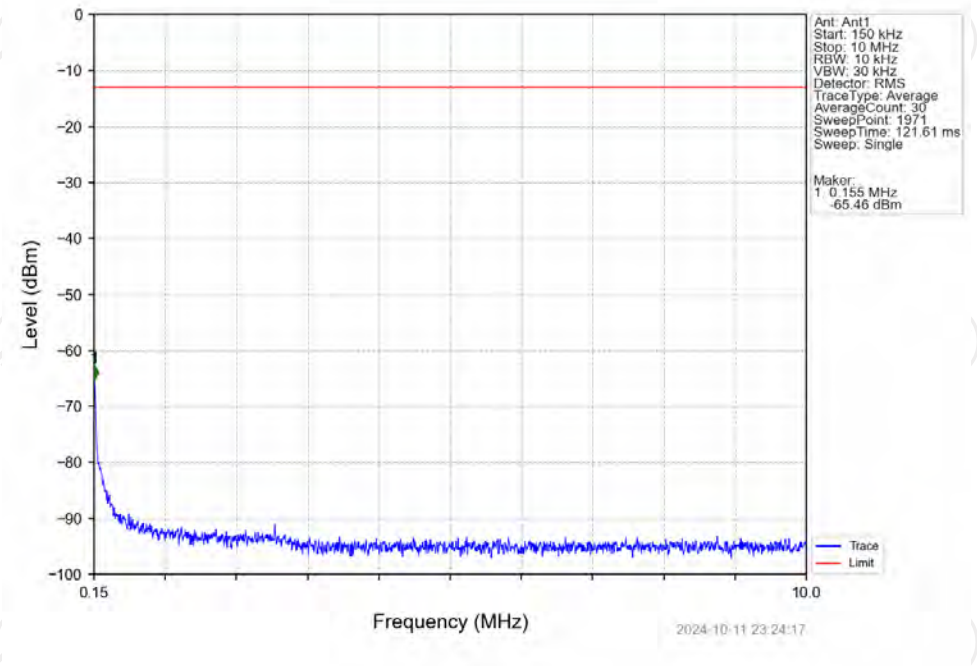


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-28.93	-13	Pass
1709	1710	0.031	CHP	2	1709.994	-29.71	-13	Pass
1710	1713	0.031	CHP	/	/	/	/	/

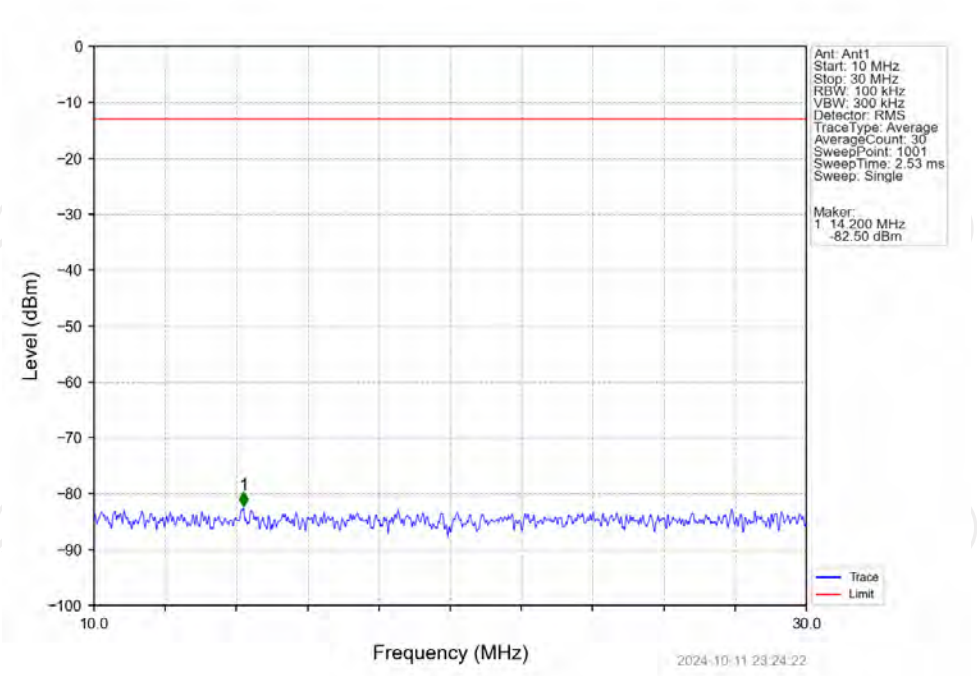
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



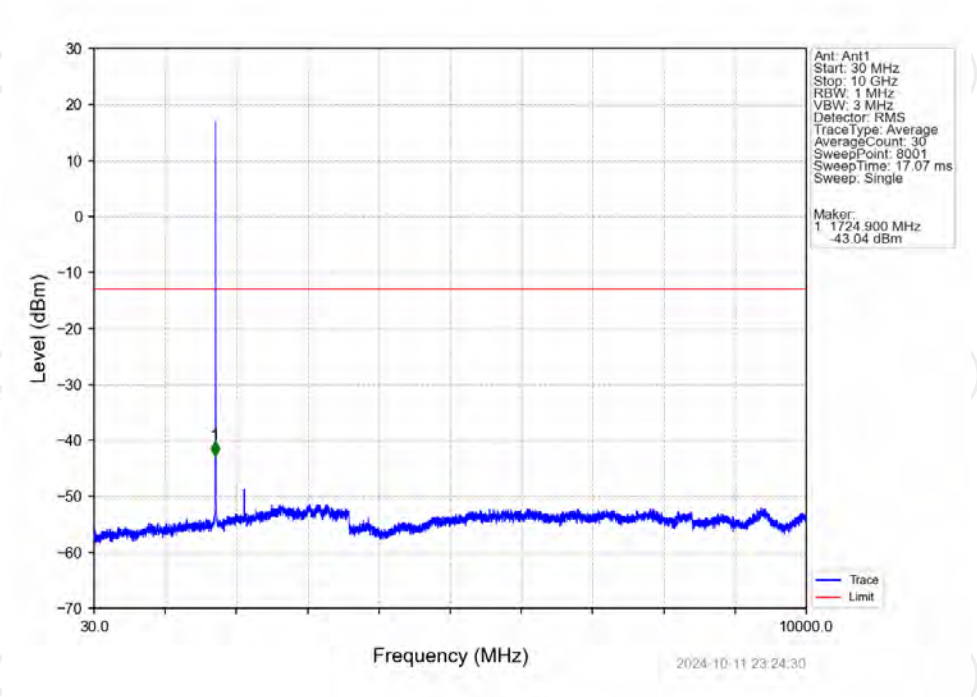
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



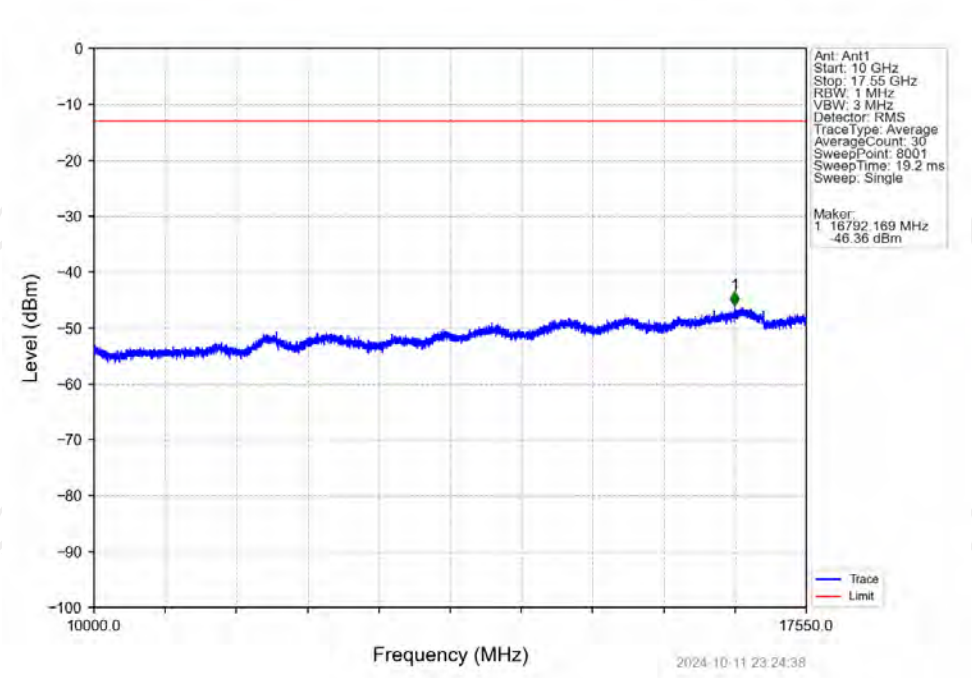
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



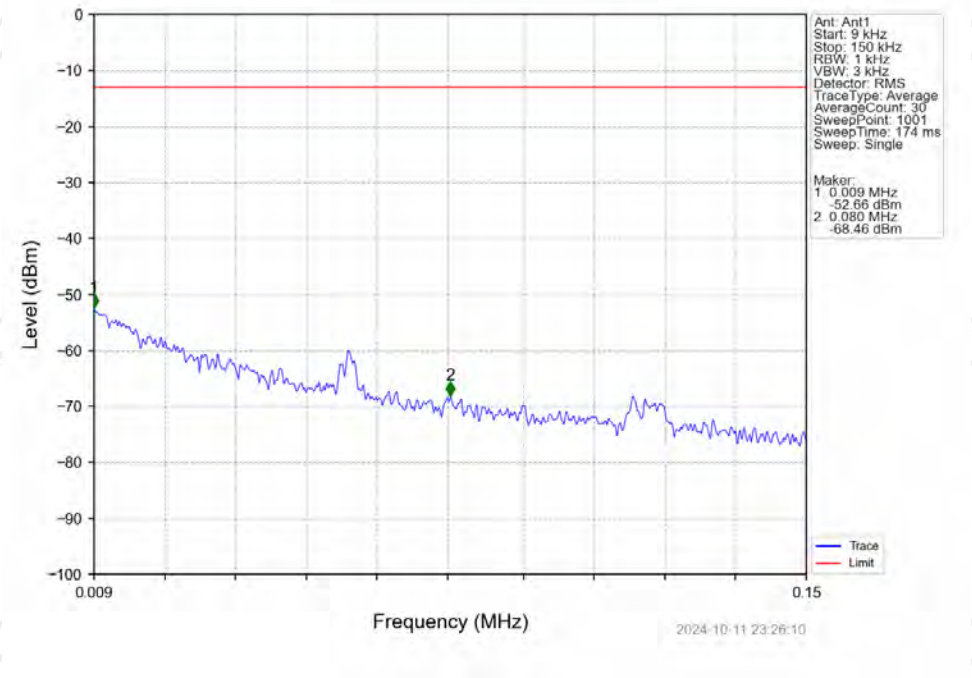
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



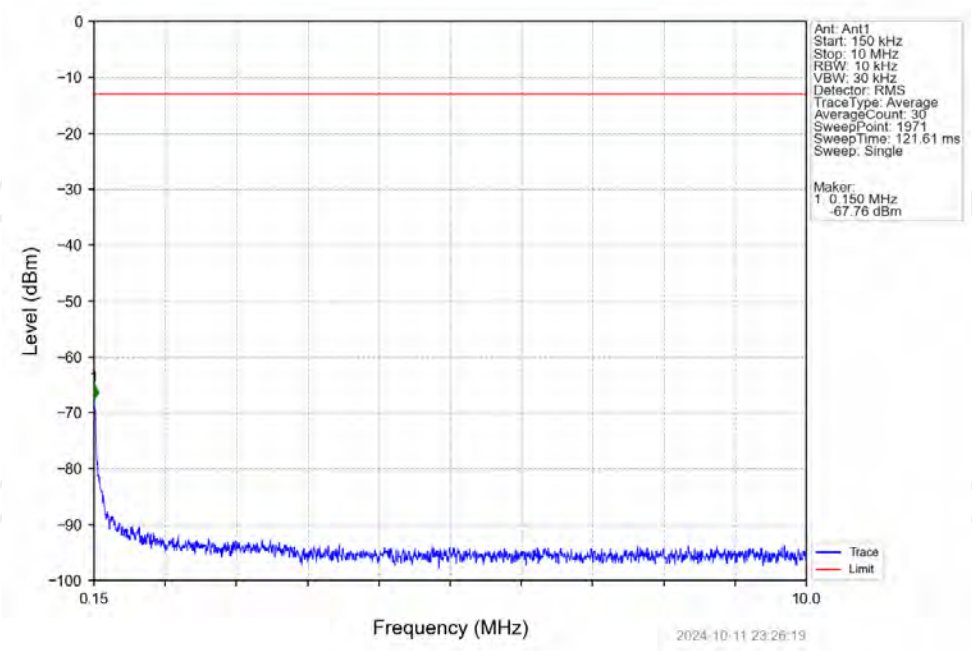
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



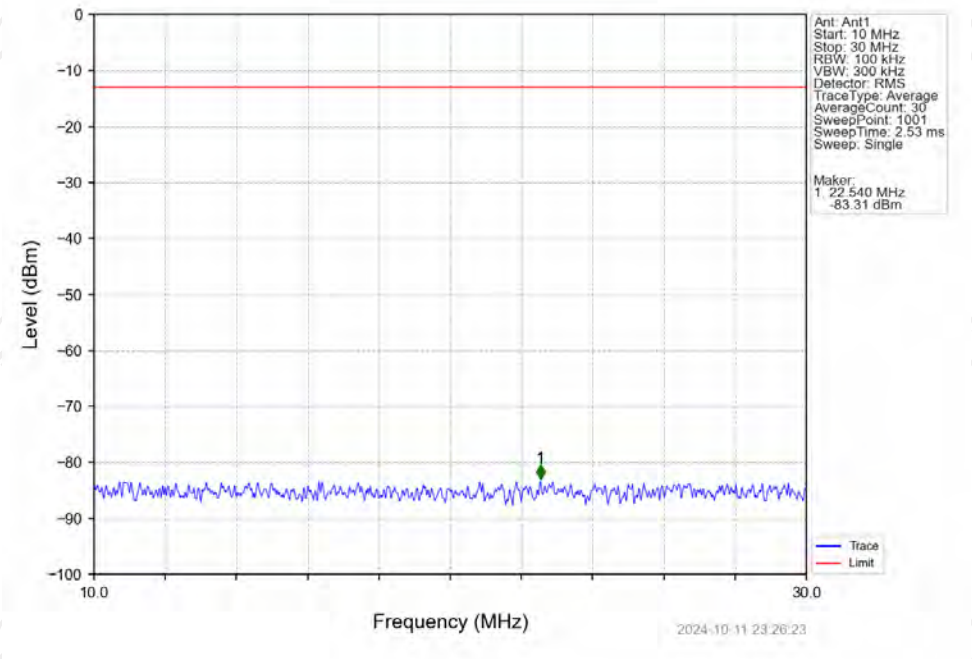
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV



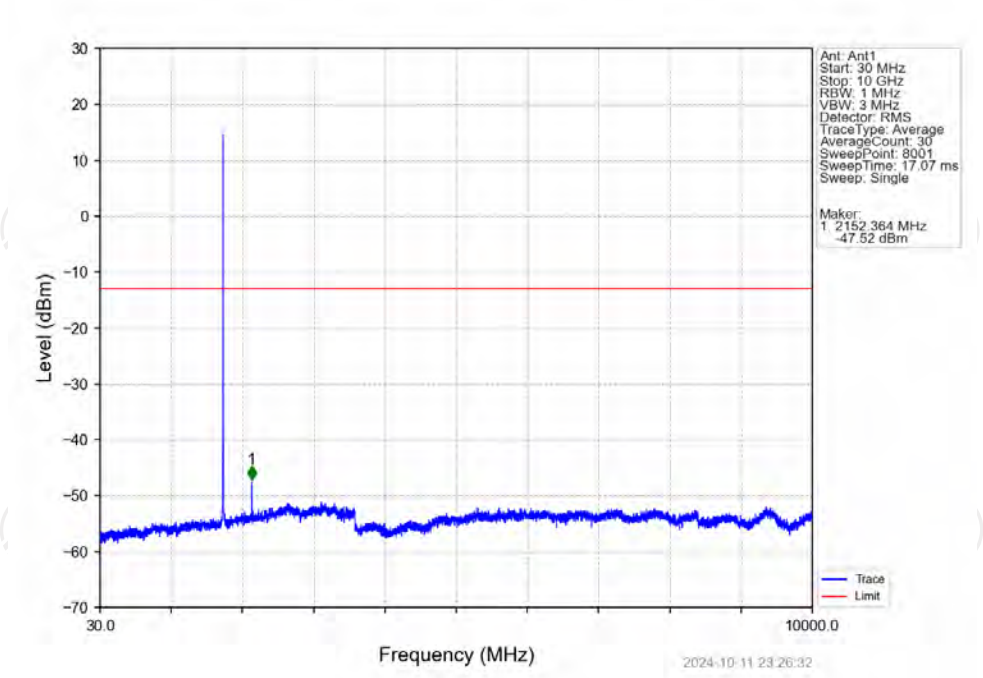
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV



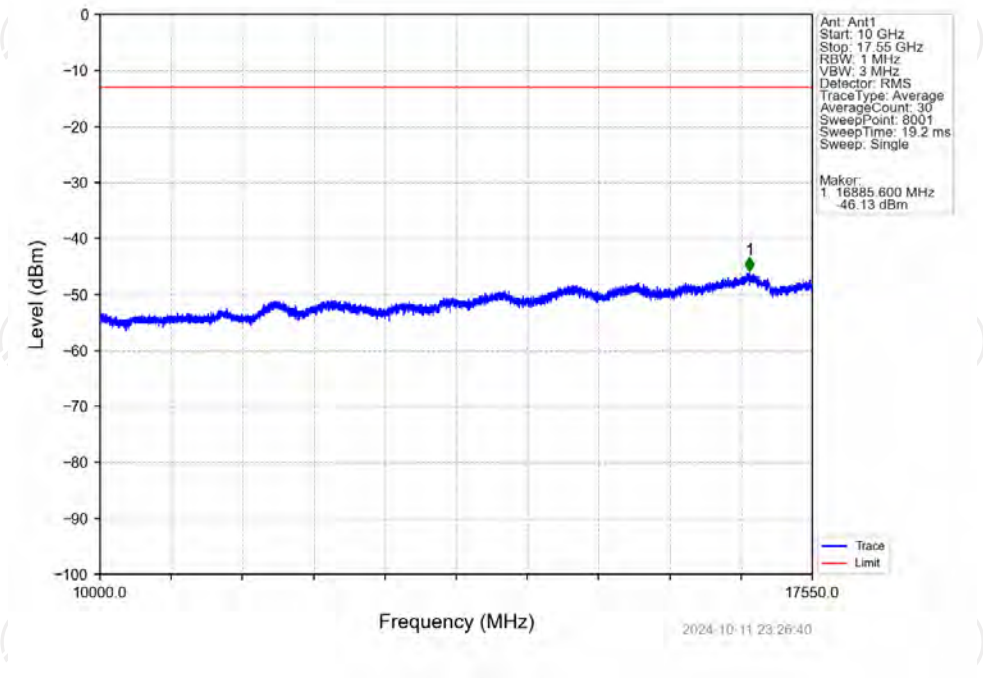
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV



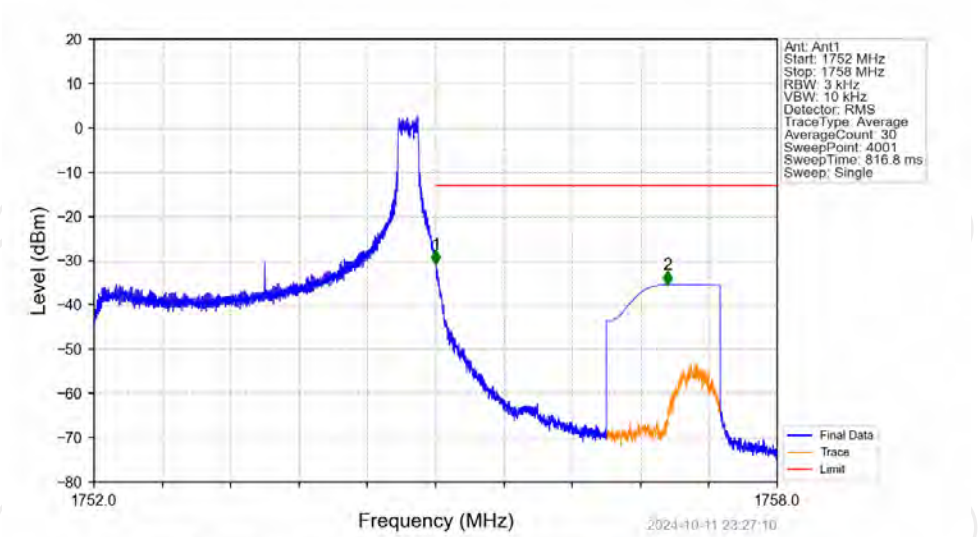
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV

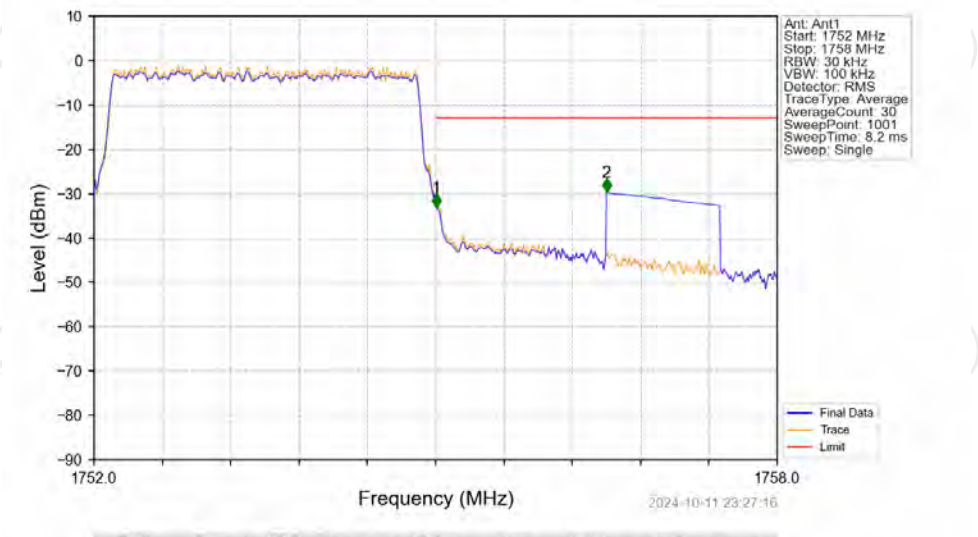


Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-30.72	-13	Pass
1756	1758	1	CHP	2	1757.035	-35.41	-13	Pass

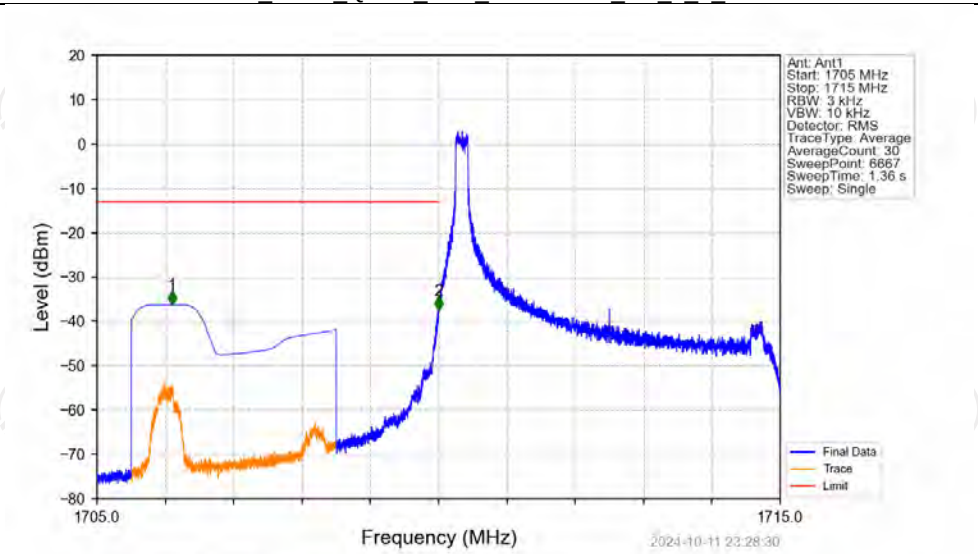
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.031	CHP	/	/	/	/	/
1755	1756	0.031	CHP	1	1755.006	-33.09	-13	Pass
1756	1758	1	CHP	2	1756.500	-29.74	-13	Pass

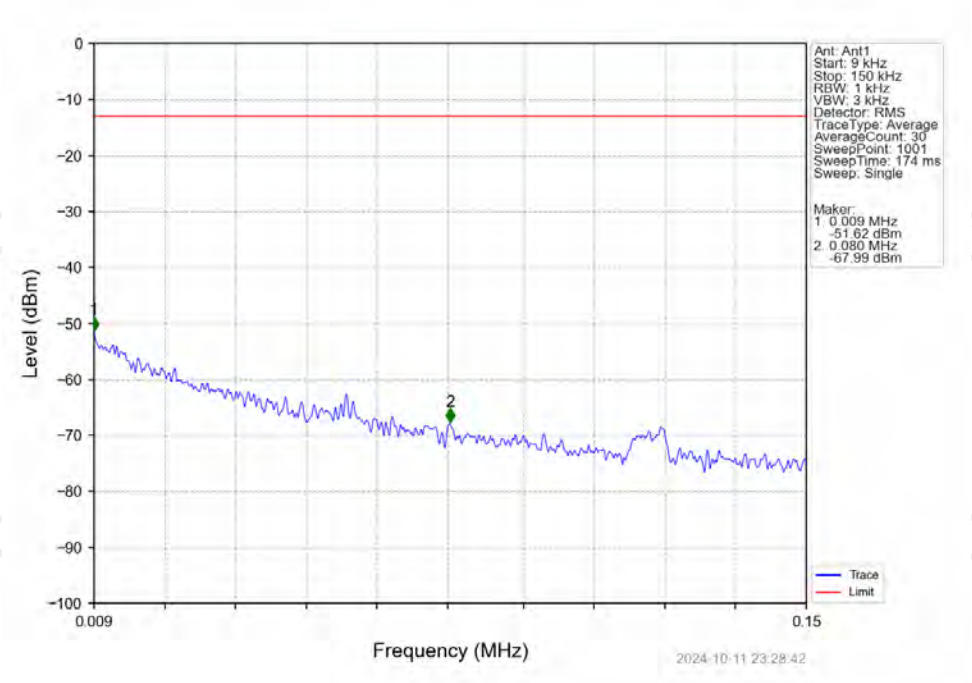
6.2.3 B4_5MHz

Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV

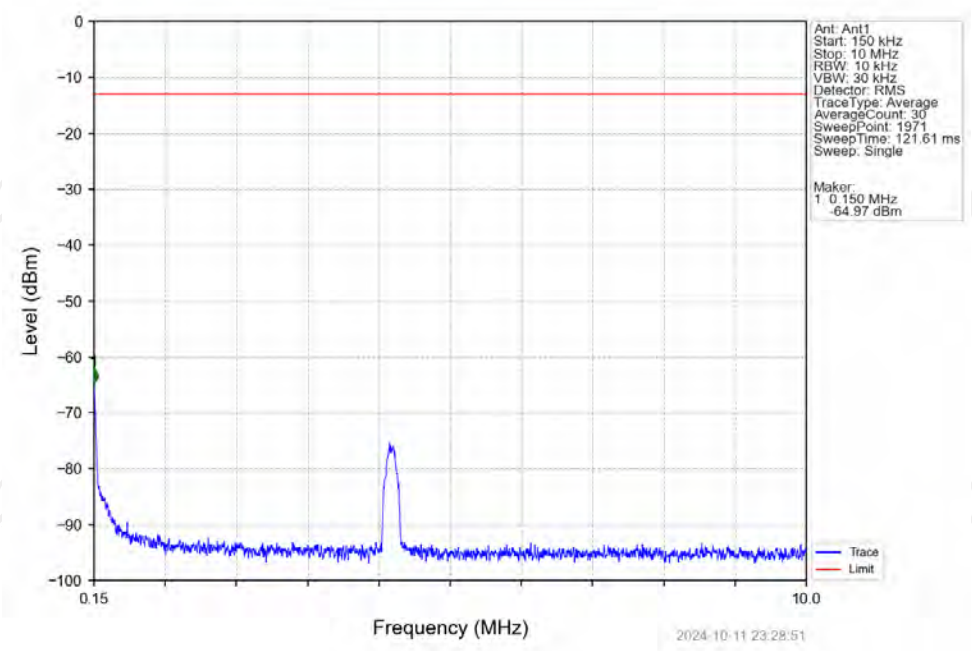


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1706.097	-36.29	-13	Pass
1709	1710	0.003	/	2	1709.998	-37.44	-13	Pass
1710	1715	0.003	/	/	/	/	/	/

Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV