Appendix - band_4

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	21.23	0.72	21.95	<=30	Pass
			2	21.24	0.72	21.96	<=30	Pass
			5	21.29	0.72	22.01	<=30	Pass
		3	0	21.11	0.72	21.83	<=30	Pass
			2	21.19	0.72	21.91	<=30	Pass
			3	21.18	0.72	21.90	<=30	Pass
		6	0	20.21	0.72	20.93	<=30	Pass
	1732.5	1	0	21.45	0.72	22.17	<=30	Pass
			2	21.49	0.72	22.21	<=30	Pass
			5	21.52	0.72	22.24	<=30	Pass
		3	0	21.54	0.72	22.26	<=30	Pass
			2	21.61	0.72	22.33	<=30	Pass
			3	21.55	0.72	22.27	<=30	Pass
		6	0	20.47	0.72	21.19	<=30	Pass
	1754.3	1	0	21.85	0.72	22.57	<=30	Pass
			2	21.93	0.72	22.65	<=30	Pass
			5	21.92	0.72	22.64	<=30	Pass
		3	0	21.75	0.72	22.47	<=30	Pass
			2	21.80	0.72	22.52	<=30	Pass
			3	21.73	0.72	22.45	<=30	Pass
		6	0	20.57	0.72	21.29	<=30	Pass
16QAM	1710.7	1	0	20.89	0.72	21.61	<=30	Pass
			2	20.87	0.72	21.59	<=30	Pass
			5	20.95	0.72	21.67	<=30	Pass
		3	0	20.31	0.72	21.03	<=30	Pass
			2	20.34	0.72	21.06	<=30	Pass
			3	20.39	0.72	21.11	<=30	Pass
		6	0	19.74	0.72	20.46	<=30	Pass
	1732.5	1	0	21.02	0.72	21.74	<=30	Pass
			2	20.98	0.72	21.70	<=30	Pass
			5	21.04	0.72	21.76	<=30	Pass
		3	0	20.28	0.72	21.00	<=30	Pass
			2	20.27	0.72	20.99	<=30	Pass
			3	20.29	0.72	21.01	<=30	Pass
		6	0	19.51	0.72	20.23	<=30	Pass
	1754.3	1	0	20.92	0.72	21.64	<=30	Pass
			2	20.91	0.72	21.63	<=30	Pass
			5	20.94	0.72	21.66	<=30	Pass
		3	0	20.43	0.72	21.15	<=30	Pass
			2	20.61	0.72	21.33	<=30	Pass
			3	20.37	0.72	21.09	<=30	Pass
		6	0	19.96	0.72	20.68	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B4_3MHz_EIRP

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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	21.15	0.72	21.87	<=30	Pass
			7	21.11	0.72	21.83	<=30	Pass
			14	21.25	0.72	21.97	<=30	Pass
		8	0	20.12	0.72	20.84	<=30	Pass
			4	20.11	0.72	20.83	<=30	Pass
			7	20.25	0.72	20.97	<=30	Pass
		15	0	20.18	0.72	20.90	<=30	Pass
	1732.5	1	0	21.57	0.72	22.29	<=30	Pass
			7	21.61	0.72	22.33	<=30	Pass
			14	21.60	0.72	22.32	<=30	Pass
		8	0	20.37	0.72	21.09	<=30	Pass
			4	20.47	0.72	21.19	<=30	Pass
			7	20.47	0.72	21.19	<=30	Pass
		15	0	20.42	0.72	21.14	<=30	Pass
	1753.5	1	0	21.67	0.72	22.39	<=30	Pass
			7	21.71	0.72	22.43	<=30	Pass
			14	21.74	0.72	22.46	<=30	Pass
		8	0	20.73	0.72	21.45	<=30	Pass
			4	20.72	0.72	21.44	<=30	Pass
			7	20.71	0.72	21.43	<=30	Pass
		15	0	20.70	0.72	21.42	<=30	Pass
16QAM	1711.5	1	0	20.13	0.72	20.85	<=30	Pass
			7	20.11	0.72	20.83	<=30	Pass
			14	20.24	0.72	20.96	<=30	Pass
		8	0	19.74	0.72	20.46	<=30	Pass
			4	19.75	0.72	20.47	<=30	Pass
			7	19.39	0.72	20.11	<=30	Pass
		15	0	19.63	0.72	20.35	<=30	Pass
	1732.5	1	0	21.11	0.72	21.83	<=30	Pass
			7	21.06	0.72	21.78	<=30	Pass
			14	21.15	0.72	21.87	<=30	Pass
		8	0	19.52	0.72	20.24	<=30	Pass
			4	19.57	0.72	20.29	<=30	Pass
			7	19.59	0.72	20.31	<=30	Pass
		15	0	19.54	0.72	20.26	<=30	Pass
	1753.5	1	0	21.32	0.72	22.04	<=30	Pass
			7	21.28	0.72	22.00	<=30	Pass
			14	21.23	0.72	21.95	<=30	Pass
		8	0	19.86	0.72	20.58	<=30	Pass
			4	19.94	0.72	20.66	<=30	Pass
			7	19.94	0.72	20.66	<=30	Pass
		15	0	19.83	0.72	20.55	<=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	20.99	0.72	21.71	<=30	Pass
			13	21.08	0.72	21.80	<=30	Pass
			24	21.18	0.72	21.90	<=30	Pass
		12	0	20.11	0.72	20.83	<=30	Pass
			6	20.24	0.72	20.96	<=30	Pass
			13	20.25	0.72	20.97	<=30	Pass

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		25	0	20.30	0.72	21.02	<=30	Pass
	1732.5	1	0	21.45	0.72	22.17	<=30	Pass
			13	21.45	0.72	22.17	<=30	Pass
			24	21.48	0.72	22.20	<=30	Pass
		12	0	20.38	0.72	21.10	<=30	Pass
			6	20.41	0.72	21.13	<=30	Pass
			13	20.46	0.72	21.18	<=30	Pass
		25	0	20.46	0.72	21.18	<=30	Pass
	1752.5	1	0	21.73	0.72	22.45	<=30	Pass
			13	21.74	0.72	22.46	<=30	Pass
			24	21.73	0.72	22.45	<=30	Pass
		12	0	20.78	0.72	21.50	<=30	Pass
			6	20.69	0.72	21.41	<=30	Pass
			13	20.70	0.72	21.42	<=30	Pass
		25	0	20.69	0.72	21.41	<=30	Pass
16QAM	1712.5	1	0	20.64	0.72	21.36	<=30	Pass
			13	20.79	0.72	21.51	<=30	Pass
			24	20.81	0.72	21.53	<=30	Pass
		12	0	19.57	0.72	20.29	<=30	Pass
			6	19.15	0.72	19.87	<=30	Pass
			13	19.12	0.72	19.84	<=30	Pass
		25	0	19.21	0.72	19.93	<=30	Pass
	1732.5	1	0	21.01	0.72	21.73	<=30	Pass
			13	20.96	0.72	21.68	<=30	Pass
			24	21.03	0.72	21.75	<=30	Pass
		12	0	19.46	0.72	20.18	<=30	Pass
			6	19.48	0.72	20.20	<=30	Pass
			13	19.54	0.72	20.26	<=30	Pass
		25	0	19.54	0.72	20.26	<=30	Pass
	1752.5	1	0	20.47	0.72	21.19	<=30	Pass
			13	20.28	0.72	21.00	<=30	Pass
			24	20.37	0.72	21.09	<=30	Pass
		12	0	19.74	0.72	20.46	<=30	Pass
			6	19.73	0.72	20.45	<=30	Pass
			13	19.68	0.72	20.40	<=30	Pass
		25	0	19.84	0.72	20.56	<=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	21.05	0.72	21.77	<=30	Pass
			25	21.18	0.72	21.90	<=30	Pass
			49	21.24	0.72	21.96	<=30	Pass
		25	0	20.27	0.72	20.99	<=30	Pass
			13	20.23	0.72	20.95	<=30	Pass
			25	20.27	0.72	20.99	<=30	Pass
		50	0	20.25	0.72	20.97	<=30	Pass
	1732.5	1	0	21.47	0.72	22.19	<=30	Pass
			25	21.59	0.72	22.31	<=30	Pass
			49	21.42	0.72	22.14	<=30	Pass
		25	0	20.45	0.72	21.17	<=30	Pass
			13	20.43	0.72	21.15	<=30	Pass
			25	20.38	0.72	21.10	<=30	Pass
		50	0	20.36	0.72	21.08	<=30	Pass
	1750	1	0	21.48	0.72	22.20	<=30	Pass

			25	21.69	0.72	22.41	<=30	Pass
			49	21.69	0.72	22.41	<=30	Pass
		25	0	20.67	0.72	21.39	<=30	Pass
			13	20.73	0.72	21.45	<=30	Pass
			25	20.72	0.72	21.44	<=30	Pass
		50	0	20.87	0.72	21.59	<=30	Pass
16QAM	1715	1	0	20.40	0.72	21.12	<=30	Pass
			25	20.53	0.72	21.25	<=30	Pass
			49	20.47	0.72	21.19	<=30	Pass
		25	0	19.36	0.72	20.08	<=30	Pass
			13	19.52	0.72	20.24	<=30	Pass
			25	19.50	0.72	20.22	<=30	Pass
		50	0	19.36	0.72	20.08	<=30	Pass
	1732.5	1	0	21.64	0.72	22.36	<=30	Pass
			25	21.67	0.72	22.39	<=30	Pass
			49	21.79	0.72	22.51	<=30	Pass
		25	0	19.39	0.72	20.11	<=30	Pass
			13	19.52	0.72	20.24	<=30	Pass
			25	19.89	0.72	20.61	<=30	Pass
		50	0	19.52	0.72	20.24	<=30	Pass
	1750	1	0	21.39	0.72	22.11	<=30	Pass
			25	21.57	0.72	22.29	<=30	Pass
			49	21.45	0.72	22.17	<=30	Pass
		25	0	19.74	0.72	20.46	<=30	Pass
			13	20.15	0.72	20.87	<=30	Pass
			25	19.78	0.72	20.50	<=30	Pass
		50	0	20.10	0.72	20.82	<=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	20.95	0.72	21.67	<=30	Pass
			38	21.10	0.72	21.82	<=30	Pass
			74	21.22	0.72	21.94	<=30	Pass
		36	0	20.31	0.72	21.03	<=30	Pass
			18	20.17	0.72	20.89	<=30	Pass
			39	20.64	0.72	21.36	<=30	Pass
		75	0	20.27	0.72	20.99	<=30	Pass
	1732.5	1	0	21.50	0.72	22.22	<=30	Pass
			38	21.57	0.72	22.29	<=30	Pass
			74	21.65	0.72	22.37	<=30	Pass
		36	0	20.33	0.72	21.05	<=30	Pass
			18	20.43	0.72	21.15	<=30	Pass
			39	20.59	0.72	21.31	<=30	Pass
		75	0	20.45	0.72	21.17	<=30	Pass
	1747.5	1	0	21.48	0.72	22.20	<=30	Pass
			38	21.54	0.72	22.26	<=30	Pass
			74	21.73	0.72	22.45	<=30	Pass
		36	0	20.66	0.72	21.38	<=30	Pass
			18	20.65	0.72	21.37	<=30	Pass
			39	20.74	0.72	21.46	<=30	Pass
		75	0	20.59	0.72	21.31	<=30	Pass
16QAM	1717.5	1	0	20.68	0.72	21.40	<=30	Pass
			38	20.89	0.72	21.61	<=30	Pass
			74	20.97	0.72	21.69	<=30	Pass

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		36	0	19.36	0.72	20.08	<=30	Pass
			18	19.34	0.72	20.06	<=30	Pass
			39	19.74	0.72	20.46	<=30	Pass
		75	0	19.27	0.72	19.99	<=30	Pass
	1732.5	1	0	21.08	0.72	21.80	<=30	Pass
			38	21.15	0.72	21.87	<=30	Pass
			74	21.17	0.72	21.89	<=30	Pass
		36	0	19.55	0.72	20.27	<=30	Pass
			18	19.63	0.72	20.35	<=30	Pass
			39	19.67	0.72	20.39	<=30	Pass
		75	0	19.53	0.72	20.25	<=30	Pass
	1747.5	1	0	21.31	0.72	22.03	<=30	Pass
			38	21.33	0.72	22.05	<=30	Pass
			74	21.40	0.72	22.12	<=30	Pass
		36	0	19.96	0.72	20.68	<=30	Pass
			18	19.82	0.72	20.54	<=30	Pass
			39	19.78	0.72	20.50	<=30	Pass
		75	0	19.66	0.72	20.38	<=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	21.18	0.72	21.90	<=30	Pass
			50	21.32	0.72	22.04	<=30	Pass
			99	21.42	0.72	22.14	<=30	Pass
		50	0	20.25	0.72	20.97	<=30	Pass
			25	20.23	0.72	20.95	<=30	Pass
			50	20.41	0.72	21.13	<=30	Pass
		100	0	20.26	0.72	20.98	<=30	Pass
	1732.5	1	0	21.24	0.72	21.96	<=30	Pass
			50	21.48	0.72	22.20	<=30	Pass
			99	21.56	0.72	22.28	<=30	Pass
		50	0	20.44	0.72	21.16	<=30	Pass
			25	20.38	0.72	21.10	<=30	Pass
			50	20.57	0.72	21.29	<=30	Pass
		100	0	20.41	0.72	21.13	<=30	Pass
	1745	1	0	21.66	0.72	22.38	<=30	Pass
			50	21.81	0.72	22.53	<=30	Pass
			99	21.92	0.72	22.64	<=30	Pass
		50	0	20.65	0.72	21.37	<=30	Pass
			25	20.68	0.72	21.40	<=30	Pass
			50	20.90	0.72	21.62	<=30	Pass
		100	0	20.70	0.72	21.42	<=30	Pass
16QAM	1720	1	0	21.32	0.72	22.04	<=30	Pass
			50	21.61	0.72	22.33	<=30	Pass
			99	21.75	0.72	22.47	<=30	Pass
		50	0	19.37	0.72	20.09	<=30	Pass
			25	19.34	0.72	20.06	<=30	Pass
			50	19.51	0.72	20.23	<=30	Pass
		100	0	19.46	0.72	20.18	<=30	Pass
	1732.5	1	0	21.15	0.72	21.87	<=30	Pass
			50	21.27	0.72	21.99	<=30	Pass
			99	21.36	0.72	22.08	<=30	Pass
		50	0	19.62	0.72	20.34	<=30	Pass
			25	19.57	0.72	20.29	<=30	Pass

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			50	19.70	0.72	20.42	<=30	Pass
		100	0	19.50	0.72	20.22	<=30	Pass
	1745	1	0	20.31	0.72	21.03	<=30	Pass
			50	20.55	0.72	21.27	<=30	Pass
			99	20.65	0.72	21.37	<=30	Pass
		50	0	19.66	0.72	20.38	<=30	Pass
			25	20.03	0.72	20.75	<=30	Pass
			50	20.14	0.72	20.86	<=30	Pass
		100	0	20.17	0.72	20.89	<=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	18.139	0.0106	-2.5 to 2.5	Pass
					3.85	4.821	0.0028	-2.5 to 2.5	Pass
					4.43	-42.615	-0.0249	-2.5 to 2.5	Pass
				-30	3.85	-33.731	-0.0197	-2.5 to 2.5	Pass
				-20	3.85	-30.684	-0.0179	-2.5 to 2.5	Pass
				-10	3.85	-42.286	-0.0247	-2.5 to 2.5	Pass
				0	3.85	-28.353	-0.0166	-2.5 to 2.5	Pass
				10	3.85	-20.013	-0.0117	-2.5 to 2.5	Pass
				30	3.85	2.747	0.0016	-2.5 to 2.5	Pass
				40	3.85	-15.292	-0.0089	-2.5 to 2.5	Pass
				50	3.85	-36.006	-0.0210	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	28.267	0.0163	-2.5 to 2.5	Pass
					3.85	6.552	0.0038	-2.5 to 2.5	Pass
					4.43	-25.063	-0.0145	-2.5 to 2.5	Pass
				-30	3.85	-21.601	-0.0125	-2.5 to 2.5	Pass
				-20	3.85	-36.979	-0.0213	-2.5 to 2.5	Pass
				-10	3.85	-19.083	-0.0110	-2.5 to 2.5	Pass
				0	3.85	-33.731	-0.0195	-2.5 to 2.5	Pass
				10	3.85	-18.396	-0.0106	-2.5 to 2.5	Pass
				30	3.85	-19.784	-0.0114	-2.5 to 2.5	Pass
				40	3.85	-29.712	-0.0171	-2.5 to 2.5	Pass
				50	3.85	-29.755	-0.0172	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	16.294	0.0093	-2.5 to 2.5	Pass
					3.85	-19.784	-0.0113	-2.5 to 2.5	Pass
					4.43	-14.148	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-35.305	-0.0201	-2.5 to 2.5	Pass
				-20	3.85	3.076	0.0018	-2.5 to 2.5	Pass
				-10	3.85	-10.743	-0.0061	-2.5 to 2.5	Pass
				0	3.85	-25.449	-0.0145	-2.5 to 2.5	Pass
				10	3.85	2.761	0.0016	-2.5 to 2.5	Pass
				30	3.85	-4.992	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-27.423	-0.0156	-2.5 to 2.5	Pass
				50	3.85	-17.180	-0.0098	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-10.500	-0.0061	-2.5 to 2.5	Pass
					3.85	-17.323	-0.0101	-2.5 to 2.5	Pass
					4.43	-15.821	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-14.720	-0.0086	-2.5 to 2.5	Pass

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				-20	3.85	-21.944	-0.0128	-2.5 to 2.5	Pass
				-10	3.85	-20.185	-0.0118	-2.5 to 2.5	Pass
				0	3.85	-29.082	-0.0170	-2.5 to 2.5	Pass
				10	3.85	-22.302	-0.0130	-2.5 to 2.5	Pass
				30	3.85	-27.308	-0.0160	-2.5 to 2.5	Pass
				40	3.85	-33.989	-0.0199	-2.5 to 2.5	Pass
				50	3.85	-34.018	-0.0199	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-33.402	-0.0193	-2.5 to 2.5	Pass
					3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
					4.43	-4.478	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-19.941	-0.0115	-2.5 to 2.5	Pass
				-20	3.85	-35.920	-0.0207	-2.5 to 2.5	Pass
				-10	3.85	-29.311	-0.0169	-2.5 to 2.5	Pass
				0	3.85	-32.372	-0.0187	-2.5 to 2.5	Pass
				10	3.85	-20.657	-0.0119	-2.5 to 2.5	Pass
				30	3.85	-6.022	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-8.755	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-8.583	-0.0050	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-32.172	-0.0183	-2.5 to 2.5	Pass
					3.85	-1.960	-0.0011	-2.5 to 2.5	Pass
					4.43	-27.509	-0.0157	-2.5 to 2.5	Pass
				-30	3.85	-28.110	-0.0160	-2.5 to 2.5	Pass
				-20	3.85	-6.022	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	8.898	0.0051	-2.5 to 2.5	Pass
				0	3.85	-34.618	-0.0197	-2.5 to 2.5	Pass
				10	3.85	-16.279	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-13.146	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-30.856	-0.0176	-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	-18.482	-0.0108	-2.5 to 2.5	Pass
					3.85	-9.699	-0.0057	-2.5 to 2.5	Pass
					4.43	-21.458	-0.0125	-2.5 to 2.5	Pass
				-30	3.85	-23.675	-0.0138	-2.5 to 2.5	Pass
				-20	3.85	-20.657	-0.0121	-2.5 to 2.5	Pass
				-10	3.85	-10.843	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-19.827	-0.0116	-2.5 to 2.5	Pass
				10	3.85	-6.123	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-18.740	-0.0109	-2.5 to 2.5	Pass
				40	3.85	-23.546	-0.0138	-2.5 to 2.5	Pass
				50	3.85	-31.800	-0.0186	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	37.079	0.0214	-2.5 to 2.5	Pass
					3.85	11.902	0.0069	-2.5 to 2.5	Pass
					4.43	-12.560	-0.0072	-2.5 to 2.5	Pass
				-30	3.85	-21.043	-0.0121	-2.5 to 2.5	Pass
				-20	3.85	-12.817	-0.0074	-2.5 to 2.5	Pass
				-10	3.85	-2.718	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-41.456	-0.0239	-2.5 to 2.5	Pass
				10	3.85	-18.740	-0.0108	-2.5 to 2.5	Pass
				30	3.85	-16.336	-0.0094	-2.5 to 2.5	Pass
				40	3.85	-38.409	-0.0222	-2.5 to 2.5	Pass
				50	3.85	-26.264	-0.0152	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	31.700	0.0181	-2.5 to 2.5	Pass

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					3.85	15.492	0.0088	-2.5 to 2.5	Pass
					4.43	36.120	0.0206	-2.5 to 2.5	Pass
				-30	3.85	38.967	0.0222	-2.5 to 2.5	Pass
				-20	3.85	28.310	0.0161	-2.5 to 2.5	Pass
				-10	3.85	34.447	0.0196	-2.5 to 2.5	Pass
				0	3.85	28.682	0.0164	-2.5 to 2.5	Pass
				10	3.85	25.477	0.0145	-2.5 to 2.5	Pass
				30	3.85	24.118	0.0138	-2.5 to 2.5	Pass
				40	3.85	24.304	0.0139	-2.5 to 2.5	Pass
				50	3.85	24.662	0.0141	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	1.731	0.0010	-2.5 to 2.5	Pass
					3.85	-36.235	-0.0212	-2.5 to 2.5	Pass
					4.43	-11.272	-0.0066	-2.5 to 2.5	Pass
				-30	3.85	-22.130	-0.0129	-2.5 to 2.5	Pass
				-20	3.85	-10.901	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-25.291	-0.0148	-2.5 to 2.5	Pass
				0	3.85	-9.928	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-36.578	-0.0214	-2.5 to 2.5	Pass
				30	3.85	-15.678	-0.0092	-2.5 to 2.5	Pass
				40	3.85	-39.482	-0.0231	-2.5 to 2.5	Pass
				50	3.85	-25.420	-0.0149	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-14.977	-0.0086	-2.5 to 2.5	Pass
					3.85	-9.584	-0.0055	-2.5 to 2.5	Pass
					4.43	5.922	0.0034	-2.5 to 2.5	Pass
				-30	3.85	26.536	0.0153	-2.5 to 2.5	Pass
				-20	3.85	35.677	0.0206	-2.5 to 2.5	Pass
				-10	3.85	42.043	0.0243	-2.5 to 2.5	Pass
				0	3.85	4.892	0.0028	-2.5 to 2.5	Pass
				10	3.85	5.422	0.0031	-2.5 to 2.5	Pass
				30	3.85	3.891	0.0022	-2.5 to 2.5	Pass
				40	3.85	-8.783	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-14.677	-0.0085	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	39.854	0.0227	-2.5 to 2.5	Pass
					3.85	28.110	0.0160	-2.5 to 2.5	Pass
					4.43	42.644	0.0243	-2.5 to 2.5	Pass
				-30	3.85	15.936	0.0091	-2.5 to 2.5	Pass
				-20	3.85	-5.035	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	1.116	0.0006	-2.5 to 2.5	Pass
				0	3.85	8.612	0.0049	-2.5 to 2.5	Pass
				10	3.85	6.366	0.0036	-2.5 to 2.5	Pass
				30	3.85	9.856	0.0056	-2.5 to 2.5	Pass
				40	3.85	11.301	0.0064	-2.5 to 2.5	Pass
				50	3.85	19.140	0.0109	-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	-18.826	-0.0110	-2.5 to 2.5	Pass
					3.85	-23.990	-0.0140	-2.5 to 2.5	Pass
					4.43	-25.034	-0.0146	-2.5 to 2.5	Pass
				-30	3.85	-31.686	-0.0185	-2.5 to 2.5	Pass
				-20	3.85	-38.266	-0.0223	-2.5 to 2.5	Pass
				-10	3.85	-38.381	-0.0224	-2.5 to 2.5	Pass
				0	3.85	-11.945	-0.0070	-2.5 to 2.5	Pass
				10	3.85	-11.501	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-11.358	-0.0066	-2.5 to 2.5	Pass

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				40	3.85	-9.470	-0.0055	-2.5 to 2.5	Pass
				50	3.85	-35.462	-0.0207	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	32.301	0.0186	-2.5 to 2.5	Pass
					3.85	-15.035	-0.0087	-2.5 to 2.5	Pass
					4.43	-30.856	-0.0178	-2.5 to 2.5	Pass
				-30	3.85	-34.690	-0.0200	-2.5 to 2.5	Pass
				-20	3.85	-45.118	-0.0260	-2.5 to 2.5	Pass
				-10	3.85	-19.870	-0.0115	-2.5 to 2.5	Pass
				0	3.85	-40.941	-0.0236	-2.5 to 2.5	Pass
				10	3.85	-21.944	-0.0127	-2.5 to 2.5	Pass
				30	3.85	-45.762	-0.0264	-2.5 to 2.5	Pass
				40	3.85	-28.052	-0.0162	-2.5 to 2.5	Pass
				50	3.85	5.822	0.0034	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	21.086	0.0120	-2.5 to 2.5	Pass
					3.85	-7.539	-0.0043	-2.5 to 2.5	Pass
					4.43	7.939	0.0045	-2.5 to 2.5	Pass
				-30	3.85	19.798	0.0113	-2.5 to 2.5	Pass
				-20	3.85	27.380	0.0156	-2.5 to 2.5	Pass
				-10	3.85	21.815	0.0124	-2.5 to 2.5	Pass
				0	3.85	27.881	0.0159	-2.5 to 2.5	Pass
				10	3.85	31.528	0.0180	-2.5 to 2.5	Pass
				30	3.85	-9.055	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-11.773	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-5.937	-0.0034	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-20.499	-0.0120	-2.5 to 2.5	Pass
					3.85	-16.680	-0.0097	-2.5 to 2.5	Pass
					4.43	-11.072	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	-8.955	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	5.779	0.0034	-2.5 to 2.5	Pass
				-10	3.85	7.310	0.0043	-2.5 to 2.5	Pass
				0	3.85	2.117	0.0012	-2.5 to 2.5	Pass
				10	3.85	0.973	0.0006	-2.5 to 2.5	Pass
				30	3.85	-5.193	-0.0030	-2.5 to 2.5	Pass
				40	3.85	-8.683	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-7.482	-0.0044	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-10.600	-0.0061	-2.5 to 2.5	Pass
					3.85	-5.851	-0.0034	-2.5 to 2.5	Pass
					4.43	1.760	0.0010	-2.5 to 2.5	Pass
				-30	3.85	11.673	0.0067	-2.5 to 2.5	Pass
				-20	3.85	8.569	0.0049	-2.5 to 2.5	Pass
				-10	3.85	10.085	0.0058	-2.5 to 2.5	Pass
				0	3.85	26.436	0.0153	-2.5 to 2.5	Pass
				10	3.85	31.300	0.0181	-2.5 to 2.5	Pass
				30	3.85	32.187	0.0186	-2.5 to 2.5	Pass
				40	3.85	37.694	0.0218	-2.5 to 2.5	Pass
				50	3.85	33.374	0.0193	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-7.796	-0.0044	-2.5 to 2.5	Pass
					3.85	10.858	0.0062	-2.5 to 2.5	Pass
					4.43	31.829	0.0182	-2.5 to 2.5	Pass
				-30	3.85	8.068	0.0046	-2.5 to 2.5	Pass
				-20	3.85	27.895	0.0159	-2.5 to 2.5	Pass
				-10	3.85	32.344	0.0185	-2.5 to 2.5	Pass
				0	3.85	18.697	0.0107	-2.5 to 2.5	Pass
				10	3.85	2.346	0.0013	-2.5 to 2.5	Pass
				30	3.85	11.330	0.0065	-2.5 to 2.5	Pass
				40	3.85	20.256	0.0116	-2.5 to 2.5	Pass
				50	3.85	33.946	0.0194	-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	-29.097	-0.0170	-2.5 to 2.5	Pass
					3.85	-29.054	-0.0169	-2.5 to 2.5	Pass
					4.43	-24.276	-0.0142	-2.5 to 2.5	Pass
				-30	3.85	-23.546	-0.0137	-2.5 to 2.5	Pass
				-20	3.85	-12.345	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-9.470	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-40.998	-0.0239	-2.5 to 2.5	Pass
				10	3.85	-26.078	-0.0152	-2.5 to 2.5	Pass
				30	3.85	-12.889	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-38.695	-0.0226	-2.5 to 2.5	Pass
				50	3.85	-20.070	-0.0117	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	33.116	0.0191	-2.5 to 2.5	Pass
					3.85	-9.828	-0.0057	-2.5 to 2.5	Pass
					4.43	-9.370	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-36.721	-0.0212	-2.5 to 2.5	Pass
				-20	3.85	-13.061	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-36.120	-0.0208	-2.5 to 2.5	Pass
				0	3.85	-6.323	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-23.875	-0.0138	-2.5 to 2.5	Pass
				30	3.85	-0.730	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-5.507	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-13.633	-0.0079	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-6.680	-0.0038	-2.5 to 2.5	Pass
					3.85	2.632	0.0015	-2.5 to 2.5	Pass
					4.43	5.622	0.0032	-2.5 to 2.5	Pass
				-30	3.85	15.979	0.0091	-2.5 to 2.5	Pass
				-20	3.85	20.556	0.0117	-2.5 to 2.5	Pass
				-10	3.85	-14.734	-0.0084	-2.5 to 2.5	Pass
				0	3.85	-3.548	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				30	3.85	0.472	0.0003	-2.5 to 2.5	Pass
				40	3.85	-2.146	-0.0012	-2.5 to 2.5	Pass
				50	3.85	1.416	0.0008	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-26.078	-0.0152	-2.5 to 2.5	Pass
					3.85	-18.168	-0.0106	-2.5 to 2.5	Pass
					4.43	-9.642	-0.0056	-2.5 to 2.5	Pass
				-30	3.85	-2.589	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	10.185	0.0059	-2.5 to 2.5	Pass
				-10	3.85	15.221	0.0089	-2.5 to 2.5	Pass
				0	3.85	23.489	0.0137	-2.5 to 2.5	Pass
				10	3.85	24.548	0.0143	-2.5 to 2.5	Pass
				30	3.85	18.668	0.0109	-2.5 to 2.5	Pass
				40	3.85	17.495	0.0102	-2.5 to 2.5	Pass
				50	3.85	20.685	0.0121	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-23.847	-0.0138	-2.5 to 2.5	Pass
					3.85	-5.050	-0.0029	-2.5 to 2.5	Pass
					4.43	17.195	0.0099	-2.5 to 2.5	Pass
				-30	3.85	27.480	0.0159	-2.5 to 2.5	Pass
				-20	3.85	30.055	0.0173	-2.5 to 2.5	Pass
				-10	3.85	32.887	0.0190	-2.5 to 2.5	Pass
				0	3.85	35.706	0.0206	-2.5 to 2.5	Pass
				10	3.85	32.430	0.0187	-2.5 to 2.5	Pass
				30	3.85	34.719	0.0200	-2.5 to 2.5	Pass
				40	3.85	26.007	0.0150	-2.5 to 2.5	Pass
				50	3.85	25.778	0.0149	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	2.661	0.0015	-2.5 to 2.5	Pass
					3.85	19.126	0.0109	-2.5 to 2.5	Pass

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Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

					4.43	1.817	0.0010	-2.5 to 2.5	Pass
				-30	3.85	19.441	0.0111	-2.5 to 2.5	Pass
				-20	3.85	26.994	0.0154	-2.5 to 2.5	Pass
				-10	3.85	28.124	0.0161	-2.5 to 2.5	Pass
				0	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				10	3.85	6.051	0.0035	-2.5 to 2.5	Pass
				30	3.85	9.871	0.0056	-2.5 to 2.5	Pass
				40	3.85	9.713	0.0056	-2.5 to 2.5	Pass
				50	3.85	15.364	0.0088	-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	-9.241	-0.0054	-2.5 to 2.5	Pass
					3.85	-26.021	-0.0152	-2.5 to 2.5	Pass
					4.43	-20.013	-0.0117	-2.5 to 2.5	Pass
				-30	3.85	-11.601	-0.0068	-2.5 to 2.5	Pass
				-20	3.85	-28.796	-0.0168	-2.5 to 2.5	Pass
				-10	3.85	-7.582	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-17.753	-0.0103	-2.5 to 2.5	Pass
				10	3.85	-33.259	-0.0194	-2.5 to 2.5	Pass
				30	3.85	-24.047	-0.0140	-2.5 to 2.5	Pass
				40	3.85	-13.576	-0.0079	-2.5 to 2.5	Pass
				50	3.85	-41.757	-0.0243	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	24.190	0.0140	-2.5 to 2.5	Pass
					3.85	-15.063	-0.0087	-2.5 to 2.5	Pass
					4.43	-14.462	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-39.854	-0.0230	-2.5 to 2.5	Pass
				-20	3.85	-30.184	-0.0174	-2.5 to 2.5	Pass
				-10	3.85	8.225	0.0047	-2.5 to 2.5	Pass
				0	3.85	-8.655	-0.0050	-2.5 to 2.5	Pass
				10	3.85	-21.143	-0.0122	-2.5 to 2.5	Pass
				30	3.85	13.947	0.0081	-2.5 to 2.5	Pass
				40	3.85	1.817	0.0010	-2.5 to 2.5	Pass
				50	3.85	3.104	0.0018	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	22.287	0.0128	-2.5 to 2.5	Pass
					3.85	29.469	0.0169	-2.5 to 2.5	Pass
					4.43	-3.905	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-19.770	-0.0113	-2.5 to 2.5	Pass
				-20	3.85	-9.756	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	-5.808	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-9.041	-0.0052	-2.5 to 2.5	Pass
				10	3.85	-7.038	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				40	3.85	0.930	0.0005	-2.5 to 2.5	Pass
				50	3.85	6.251	0.0036	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-7.582	-0.0044	-2.5 to 2.5	Pass
					3.85	-5.465	-0.0032	-2.5 to 2.5	Pass
					4.43	8.969	0.0052	-2.5 to 2.5	Pass
				-30	3.85	12.231	0.0071	-2.5 to 2.5	Pass
				-20	3.85	23.861	0.0139	-2.5 to 2.5	Pass
				-10	3.85	20.628	0.0120	-2.5 to 2.5	Pass
				0	3.85	21.644	0.0126	-2.5 to 2.5	Pass
				10	3.85	20.657	0.0120	-2.5 to 2.5	Pass
				30	3.85	22.516	0.0131	-2.5 to 2.5	Pass
				40	3.85	35.920	0.0209	-2.5 to 2.5	Pass

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				50	3.85	34.189	0.0199	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	0.114	0.0001	-2.5 to 2.5	Pass
					3.85	11.530	0.0067	-2.5 to 2.5	Pass
					4.43	24.090	0.0139	-2.5 to 2.5	Pass
				-30	3.85	26.464	0.0153	-2.5 to 2.5	Pass
				-20	3.85	31.528	0.0182	-2.5 to 2.5	Pass
				-10	3.85	33.789	0.0195	-2.5 to 2.5	Pass
				0	3.85	43.230	0.0250	-2.5 to 2.5	Pass
				10	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				40	3.85	8.740	0.0050	-2.5 to 2.5	Pass
				50	3.85	8.869	0.0051	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	18.997	0.0109	-2.5 to 2.5	Pass
					3.85	3.705	0.0021	-2.5 to 2.5	Pass
					4.43	14.663	0.0084	-2.5 to 2.5	Pass
				-30	3.85	28.496	0.0163	-2.5 to 2.5	Pass
				-20	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	11.859	0.0068	-2.5 to 2.5	Pass
				0	3.85	19.913	0.0114	-2.5 to 2.5	Pass
				10	3.85	25.420	0.0145	-2.5 to 2.5	Pass
				30	3.85	32.473	0.0186	-2.5 to 2.5	Pass
				40	3.85	4.091	0.0023	-2.5 to 2.5	Pass
				50	3.85	13.776	0.0079	-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	-16.851	-0.0098	-2.5 to 2.5	Pass
					3.85	-26.064	-0.0152	-2.5 to 2.5	Pass
					4.43	-17.080	-0.0099	-2.5 to 2.5	Pass
				-30	3.85	-11.601	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-31.643	-0.0184	-2.5 to 2.5	Pass
				-10	3.85	-15.678	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-22.860	-0.0133	-2.5 to 2.5	Pass
				10	3.85	6.137	0.0036	-2.5 to 2.5	Pass
				30	3.85	-22.087	-0.0128	-2.5 to 2.5	Pass
				40	3.85	-7.195	-0.0042	-2.5 to 2.5	Pass
				50	3.85	-10.200	-0.0059	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-10.042	-0.0058	-2.5 to 2.5	Pass
					3.85	-3.905	-0.0023	-2.5 to 2.5	Pass
					4.43	-11.244	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	-27.781	-0.0160	-2.5 to 2.5	Pass
				-20	3.85	-1.273	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-25.020	-0.0144	-2.5 to 2.5	Pass
				0	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				10	3.85	-3.891	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-15.049	-0.0087	-2.5 to 2.5	Pass
				40	3.85	-24.920	-0.0144	-2.5 to 2.5	Pass
				50	3.85	25.048	0.0145	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	23.675	0.0136	-2.5 to 2.5	Pass
					3.85	30.270	0.0173	-2.5 to 2.5	Pass
					4.43	24.776	0.0142	-2.5 to 2.5	Pass
				-30	3.85	34.375	0.0197	-2.5 to 2.5	Pass
				-20	3.85	29.526	0.0169	-2.5 to 2.5	Pass
				-10	3.85	5.965	0.0034	-2.5 to 2.5	Pass
				0	3.85	-4.478	-0.0026	-2.5 to 2.5	Pass

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				10	3.85	-3.934	-0.0023	-2.5 to 2.5	Pass
				30	3.85	7.539	0.0043	-2.5 to 2.5	Pass
				40	3.85	18.353	0.0105	-2.5 to 2.5	Pass
				50	3.85	36.106	0.0207	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-8.526	-0.0050	-2.5 to 2.5	Pass
					3.85	2.632	0.0015	-2.5 to 2.5	Pass
					4.43	22.130	0.0129	-2.5 to 2.5	Pass
				-30	3.85	24.962	0.0145	-2.5 to 2.5	Pass
				-20	3.85	28.124	0.0164	-2.5 to 2.5	Pass
				-10	3.85	33.474	0.0195	-2.5 to 2.5	Pass
				0	3.85	31.843	0.0185	-2.5 to 2.5	Pass
				10	3.85	29.712	0.0173	-2.5 to 2.5	Pass
				30	3.85	28.353	0.0165	-2.5 to 2.5	Pass
				40	3.85	31.228	0.0182	-2.5 to 2.5	Pass
				50	3.85	24.776	0.0144	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	31.300	0.0181	-2.5 to 2.5	Pass
					3.85	15.821	0.0091	-2.5 to 2.5	Pass
					4.43	6.251	0.0036	-2.5 to 2.5	Pass
				-30	3.85	35.748	0.0206	-2.5 to 2.5	Pass
				-20	3.85	26.593	0.0153	-2.5 to 2.5	Pass
				-10	3.85	28.324	0.0163	-2.5 to 2.5	Pass
				0	3.85	13.318	0.0077	-2.5 to 2.5	Pass
				10	3.85	32.830	0.0189	-2.5 to 2.5	Pass
				30	3.85	-8.998	-0.0052	-2.5 to 2.5	Pass
				40	3.85	5.994	0.0035	-2.5 to 2.5	Pass
				50	3.85	16.851	0.0097	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-1.531	-0.0009	-2.5 to 2.5	Pass
					3.85	18.640	0.0107	-2.5 to 2.5	Pass
					4.43	3.405	0.0020	-2.5 to 2.5	Pass
				-30	3.85	-4.592	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	11.430	0.0066	-2.5 to 2.5	Pass
				-10	3.85	9.513	0.0055	-2.5 to 2.5	Pass
				0	3.85	22.259	0.0128	-2.5 to 2.5	Pass
				10	3.85	26.093	0.0150	-2.5 to 2.5	Pass
				30	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				40	3.85	1.316	0.0008	-2.5 to 2.5	Pass
				50	3.85	-2.089	-0.0012	-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

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101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
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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

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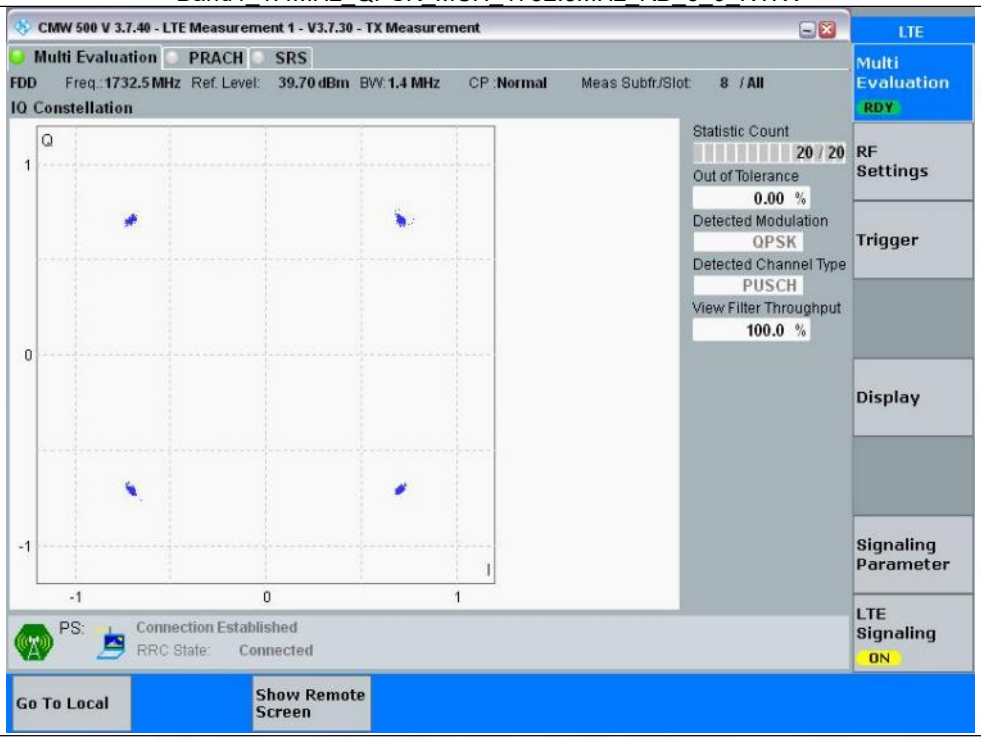
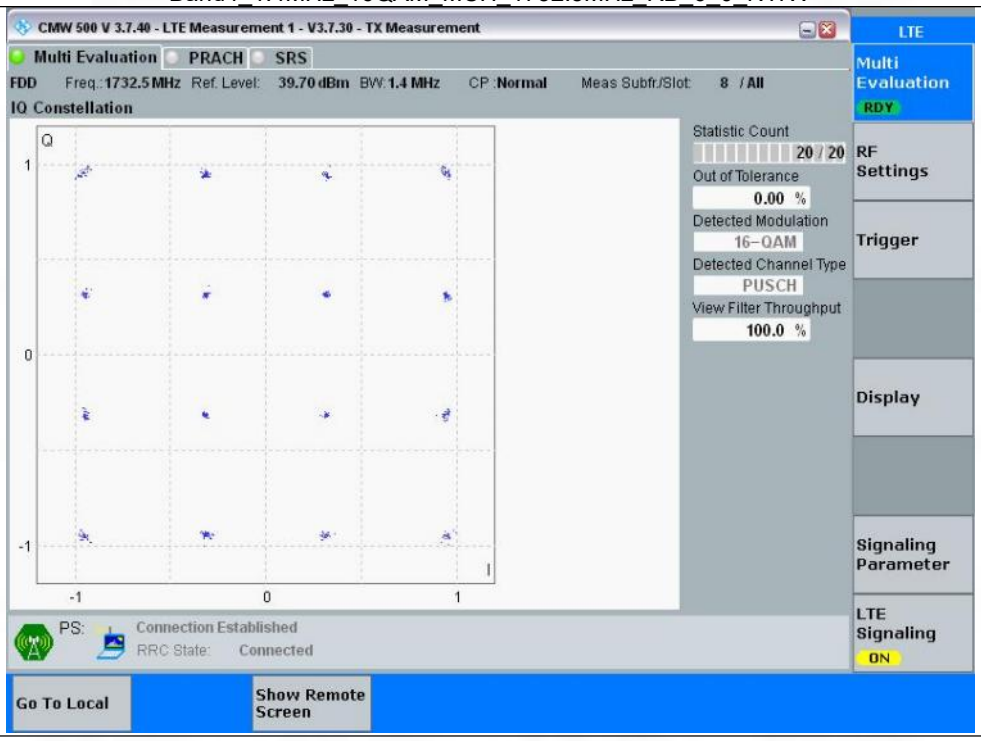
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

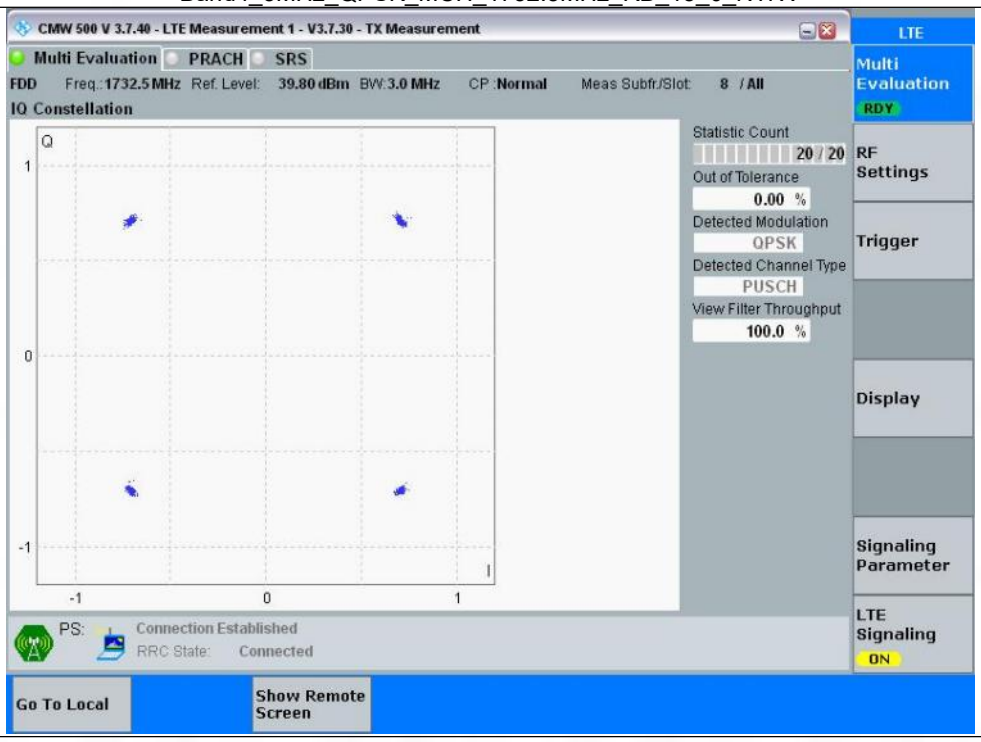
3.2 Test Graph

3.2.1 B4_1.4MHz

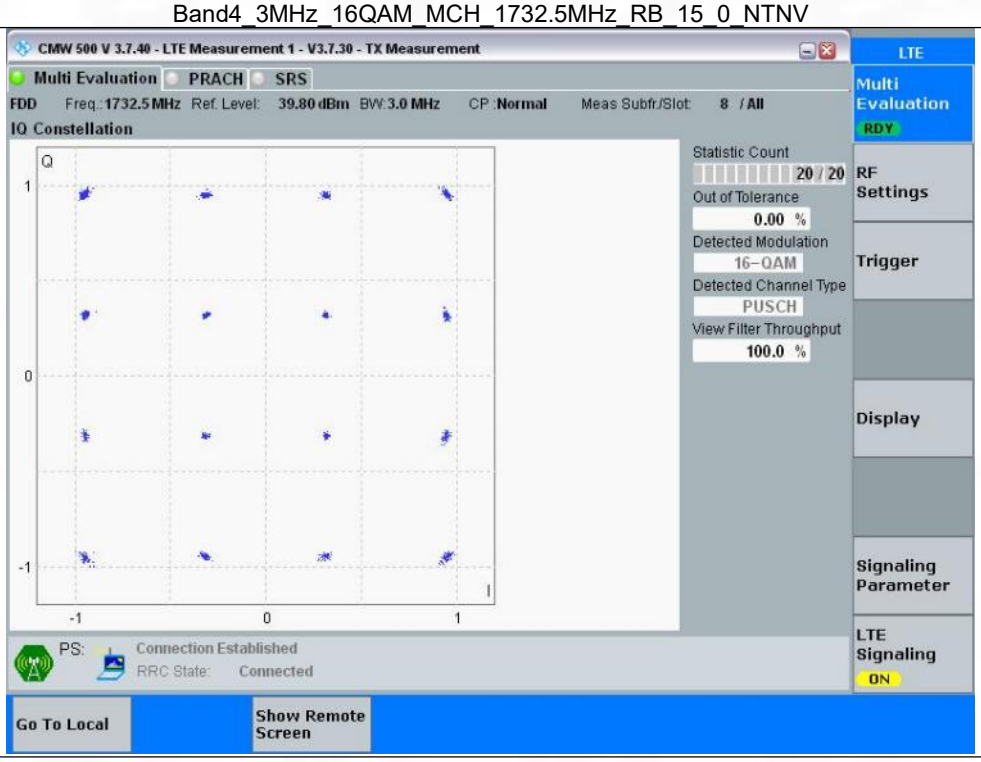
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

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

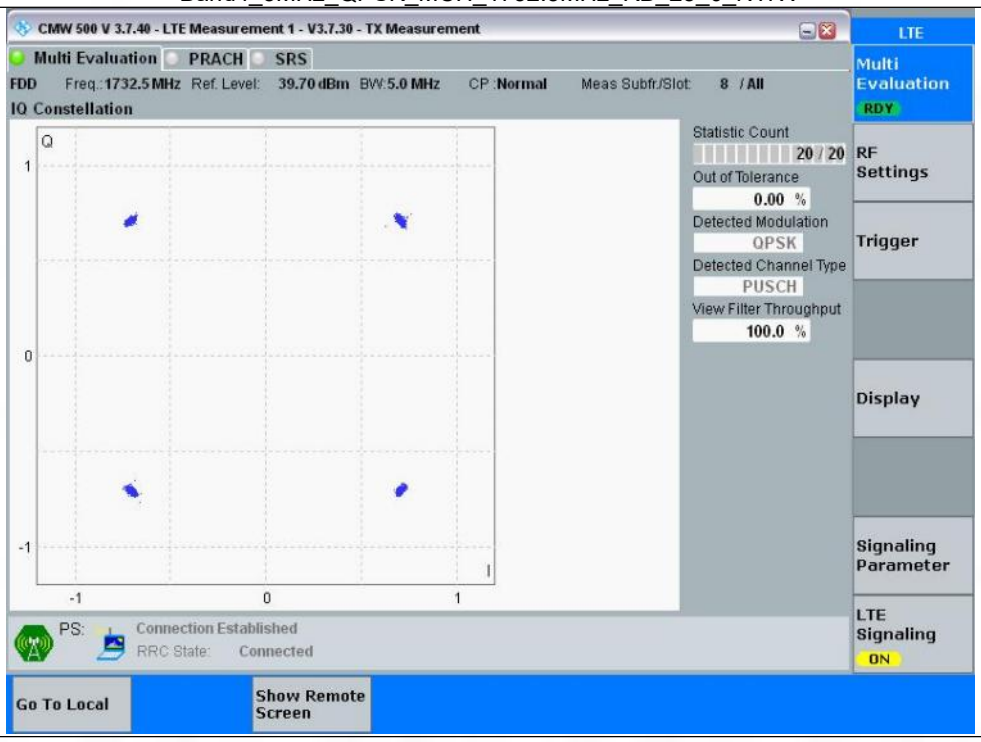


Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

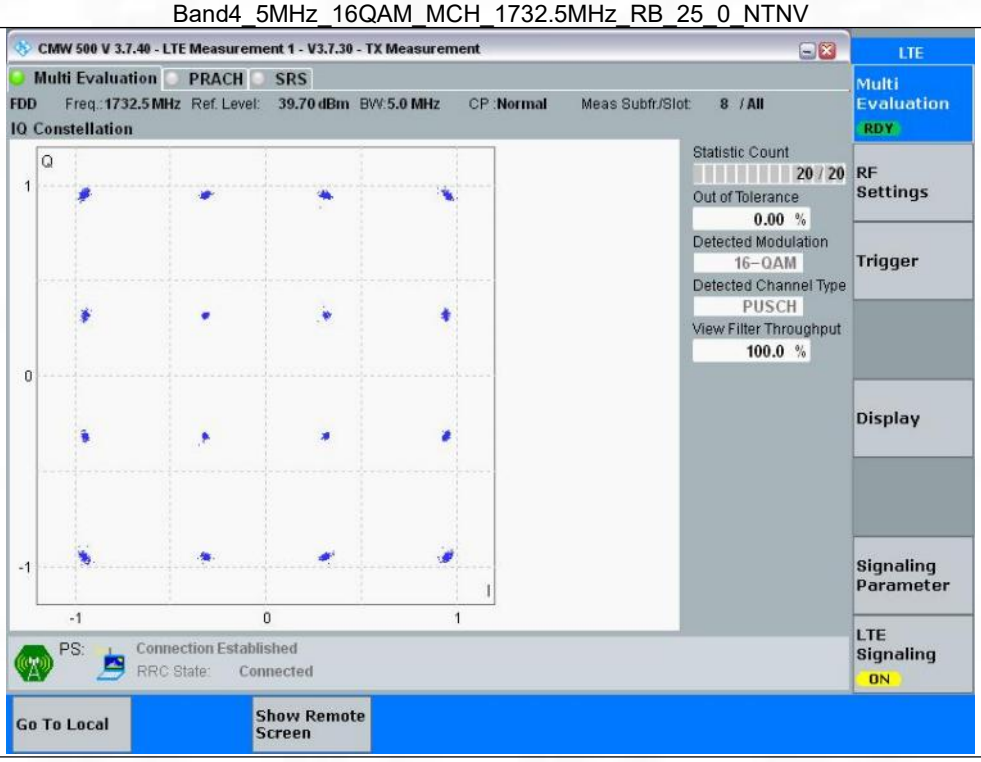


3.2.3 B4_5MHz

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

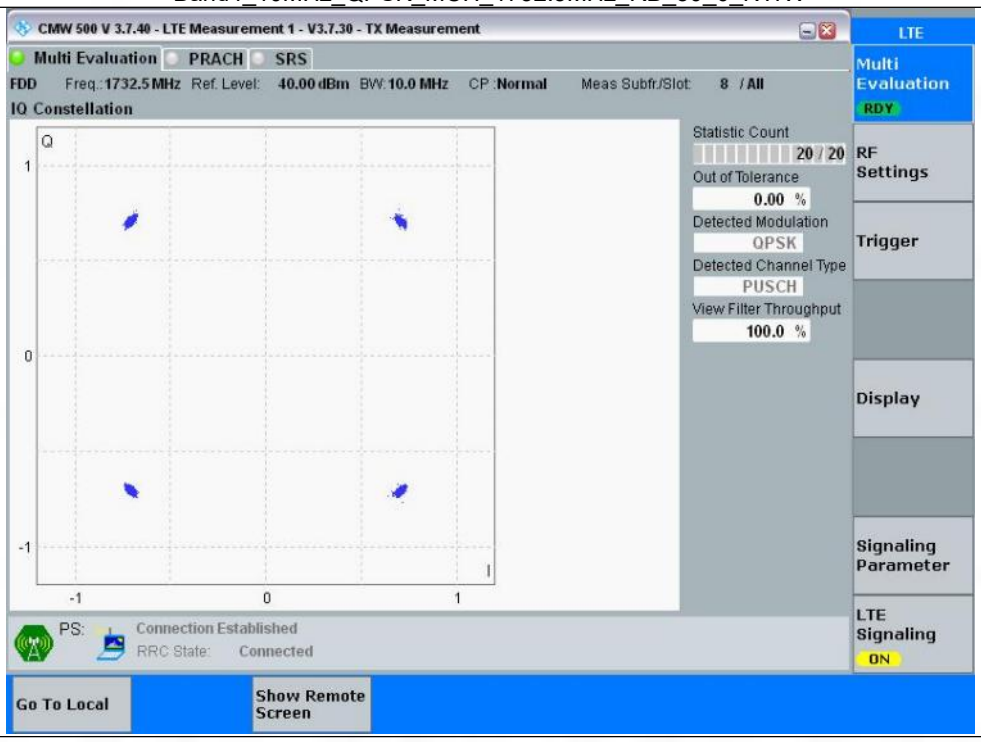


Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV

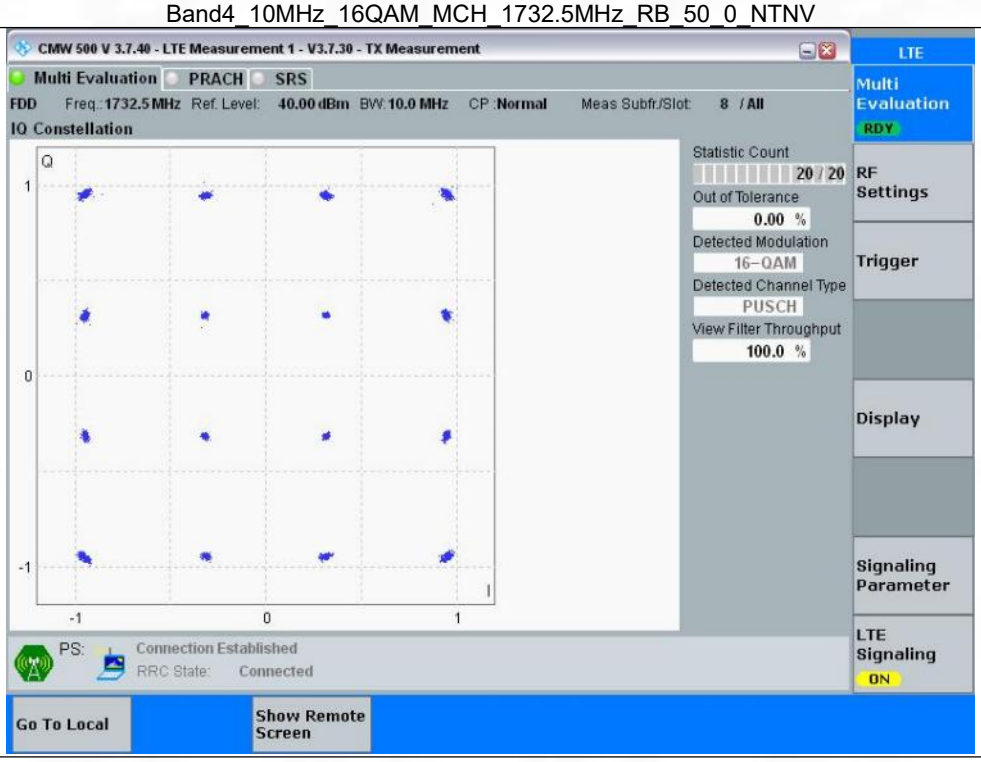


3.2.4 B4_10MHz

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV

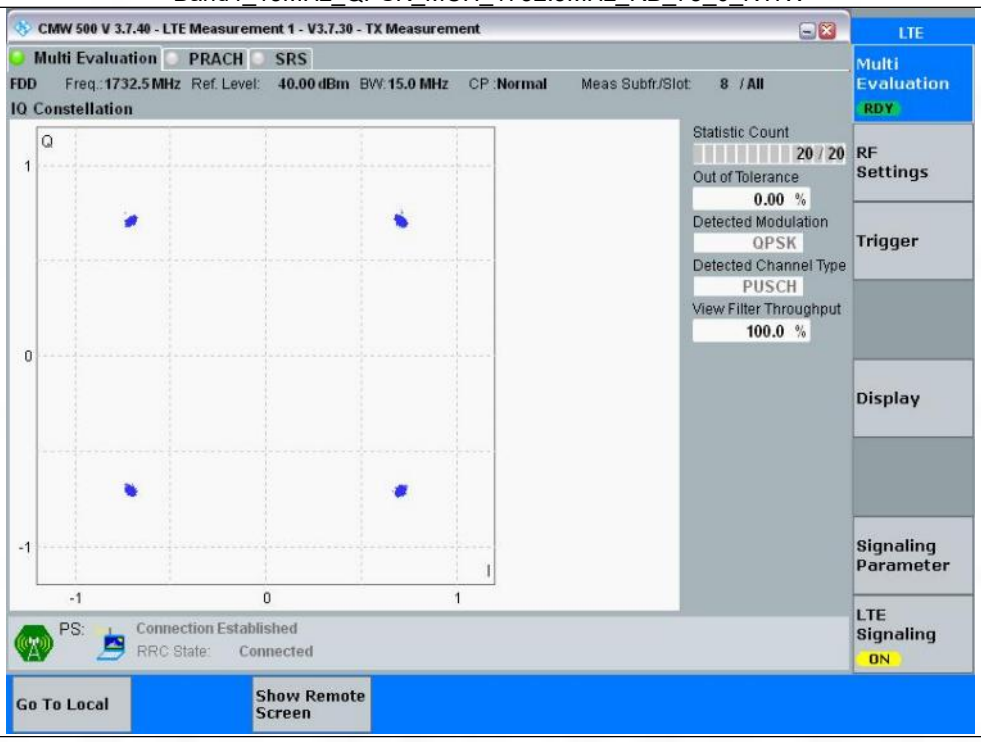


Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

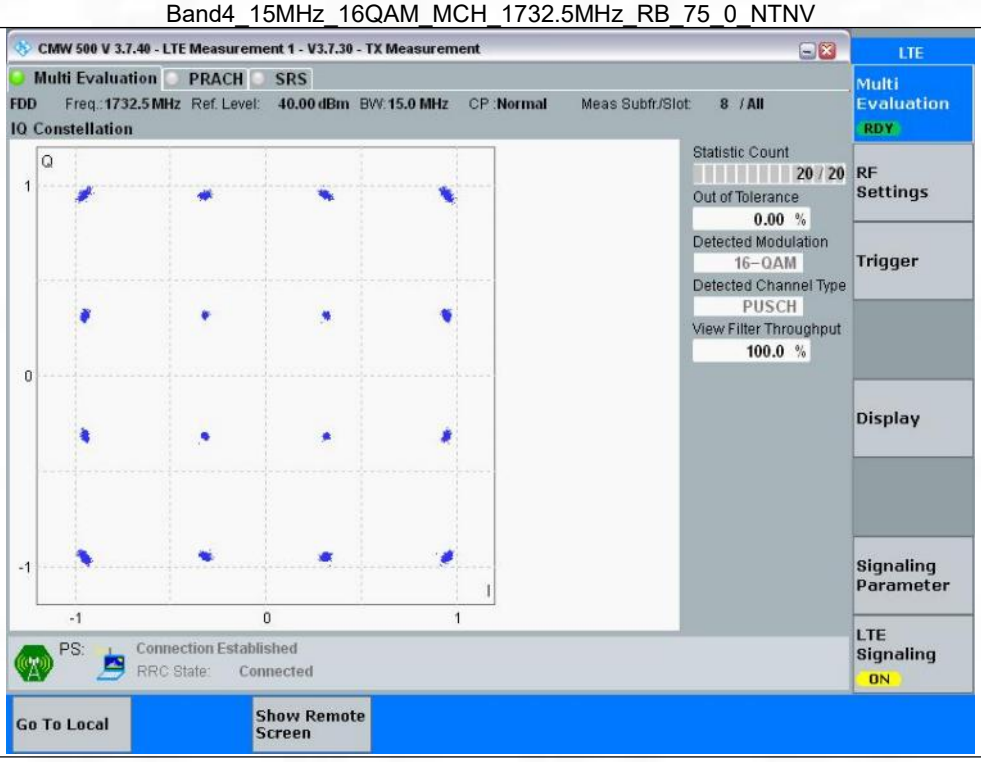


3.2.5 B4_15MHz

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

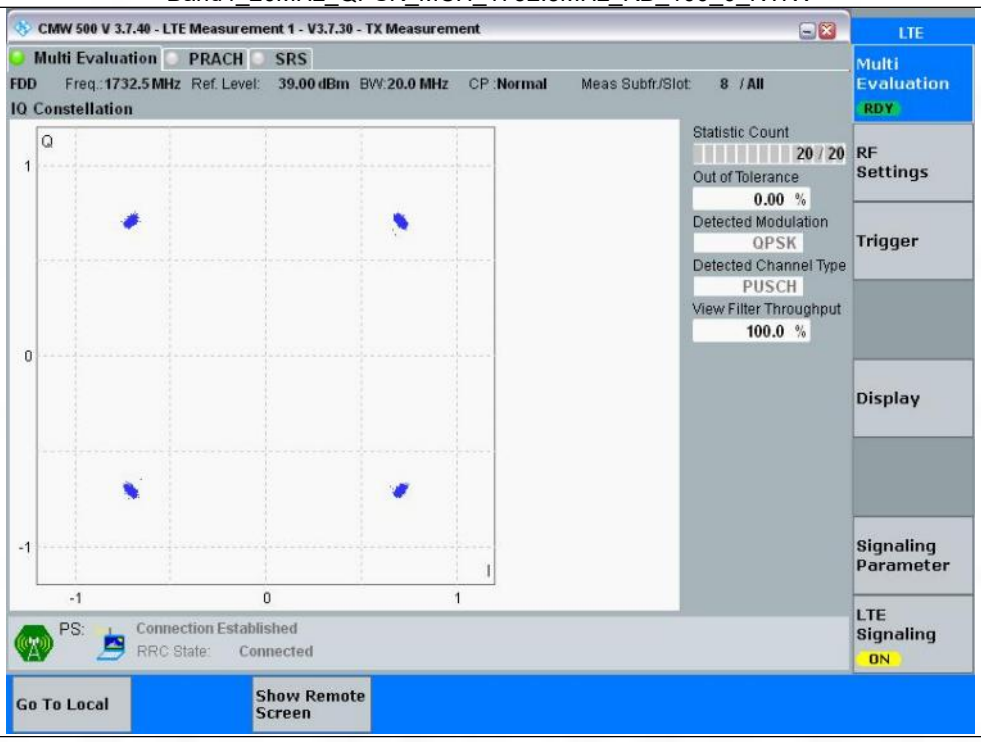


Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

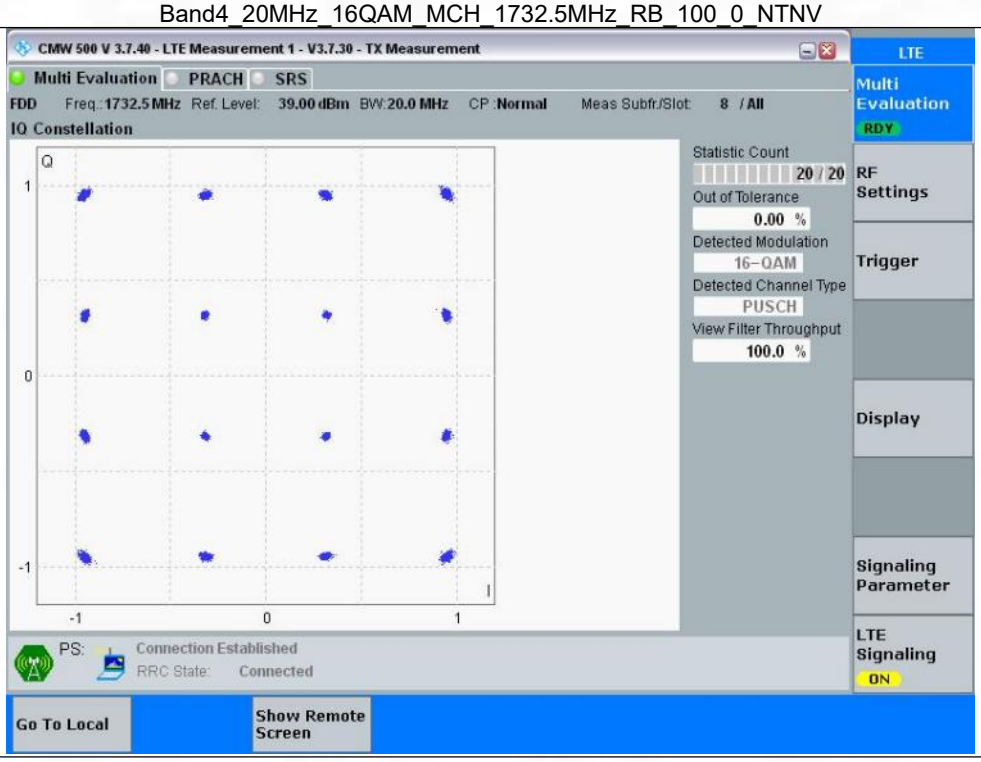


3.2.6 B4_20MHz

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	1.116	/	Pass
		1732.5	6	0	1.110	/	Pass
		1754.3	6	0	1.115	/	Pass
	16QAM	1710.7	6	0	1.110	/	Pass
		1732.5	6	0	1.106	/	Pass
		1754.3	6	0	1.123	/	Pass
3	QPSK	1711.5	15	0	2.761	/	Pass
		1732.5	15	0	2.748	/	Pass
		1753.5	15	0	2.756	/	Pass
	16QAM	1711.5	15	0	2.758	/	Pass
		1732.5	15	0	2.745	/	Pass
		1753.5	15	0	2.777	/	Pass
5	QPSK	1712.5	25	0	4.545	/	Pass
		1732.5	25	0	4.546	/	Pass
		1752.5	25	0	4.556	/	Pass
	16QAM	1712.5	25	0	4.530	/	Pass
		1732.5	25	0	4.552	/	Pass
		1752.5	25	0	4.553	/	Pass
10	QPSK	1715	50	0	9.084	/	Pass
		1732.5	50	0	9.021	/	Pass
		1750	50	0	9.044	/	Pass
	16QAM	1715	50	0	9.071	/	Pass
		1732.5	50	0	9.072	/	Pass
		1750	50	0	9.087	/	Pass
15	QPSK	1717.5	75	0	13.582	/	Pass
		1732.5	75	0	13.590	/	Pass
		1747.5	75	0	13.598	/	Pass
	16QAM	1717.5	75	0	13.594	/	Pass
		1732.5	75	0	13.620	/	Pass
		1747.5	75	0	13.603	/	Pass
20	QPSK	1720	100	0	18.173	/	Pass
		1732.5	100	0	18.117	/	Pass
		1745	100	0	18.153	/	Pass
	16QAM	1720	100	0	18.153	/	Pass
		1732.5	100	0	18.164	/	Pass
		1745	100	0	18.221	/	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	1.270	/	Pass
		1732.5	6	0	1.273	/	Pass
		1754.3	6	0	1.271	/	Pass
	16QAM	1710.7	6	0	1.268	/	Pass

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		1732.5	6	0	1.262	/	Pass
		1754.3	6	0	1.275	/	Pass
3	QPSK	1711.5	15	0	3.092	/	Pass
		1732.5	15	0	3.075	/	Pass
		1753.5	15	0	3.101	/	Pass
	16QAM	1711.5	15	0	3.121	/	Pass
		1732.5	15	0	3.104	/	Pass
		1753.5	15	0	3.110	/	Pass
5	QPSK	1712.5	25	0	5.051	/	Pass
		1732.5	25	0	5.075	/	Pass
		1752.5	25	0	5.033	/	Pass
	16QAM	1712.5	25	0	4.914	/	Pass
		1732.5	25	0	5.098	/	Pass
		1752.5	25	0	5.039	/	Pass
10	QPSK	1715	50	0	10.004	/	Pass
		1732.5	50	0	9.998	/	Pass
		1750	50	0	10.054	/	Pass
	16QAM	1715	50	0	10.082	/	Pass
		1732.5	50	0	10.039	/	Pass
		1750	50	0	9.976	/	Pass
15	QPSK	1717.5	75	0	15.191	/	Pass
		1732.5	75	0	15.139	/	Pass
		1747.5	75	0	15.190	/	Pass
	16QAM	1717.5	75	0	15.274	/	Pass
		1732.5	75	0	15.265	/	Pass
		1747.5	75	0	15.142	/	Pass
20	QPSK	1720	100	0	20.078	/	Pass
		1732.5	100	0	20.062	/	Pass
		1745	100	0	19.924	/	Pass
	16QAM	1720	100	0	19.990	/	Pass
		1732.5	100	0	20.001	/	Pass
		1745	100	0	20.070	/	Pass

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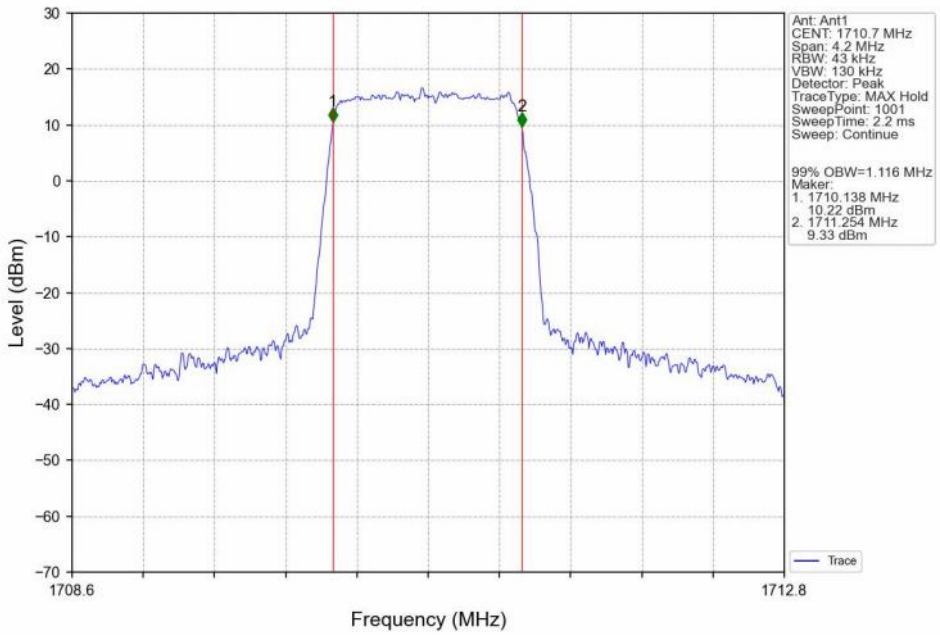
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

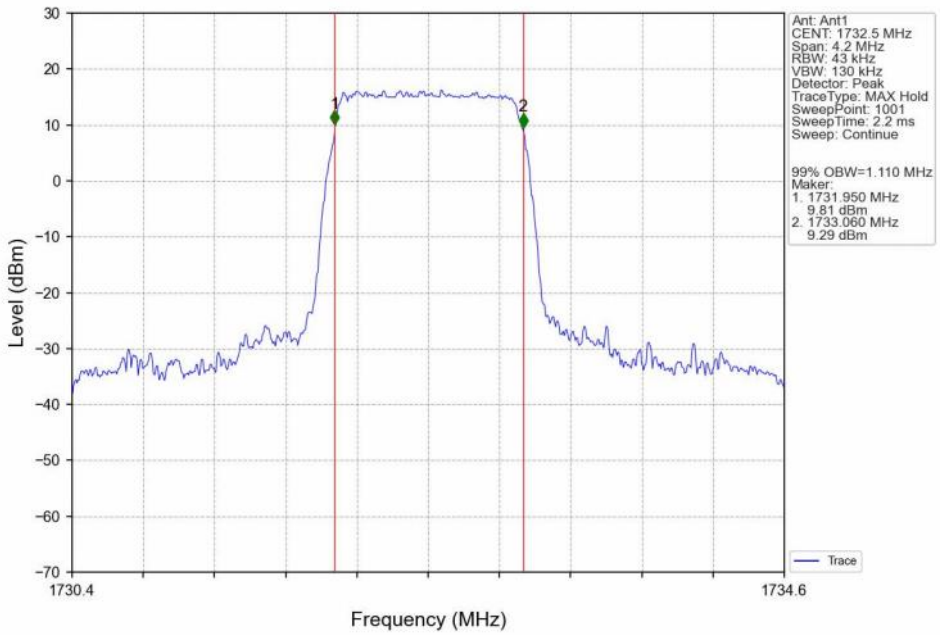
4.2 Test Graph

4.2.1 Band4_OBW

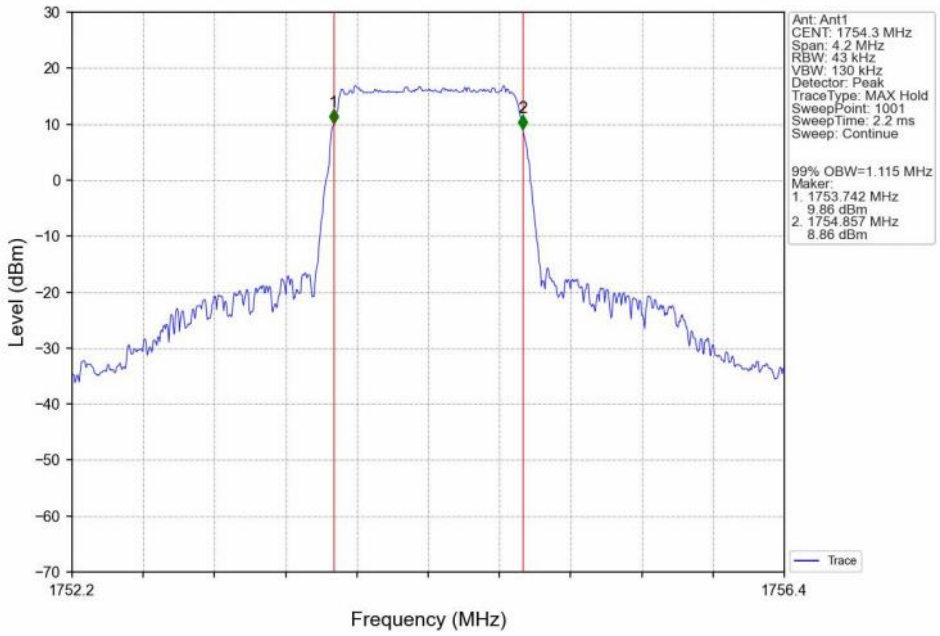
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



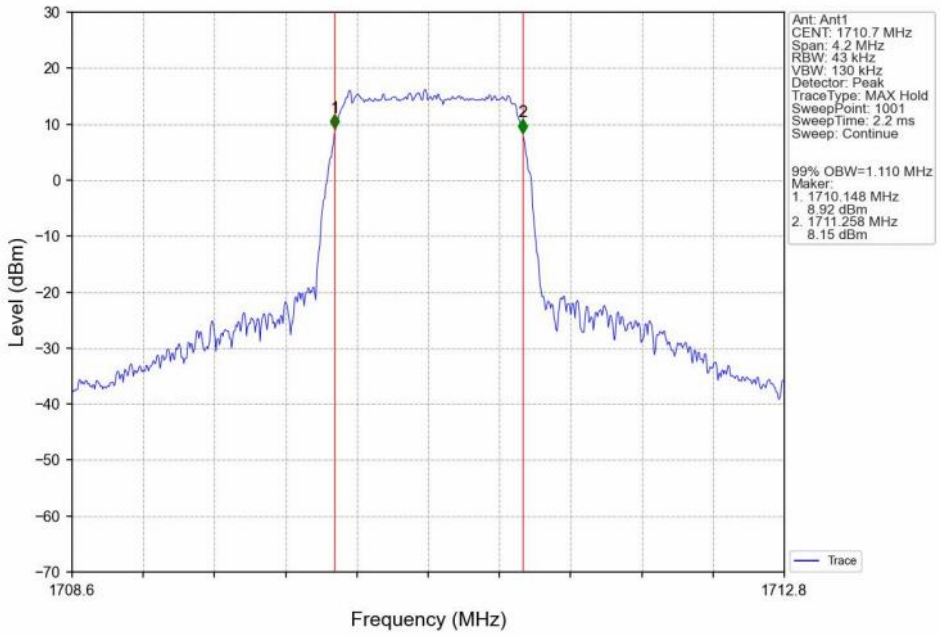
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



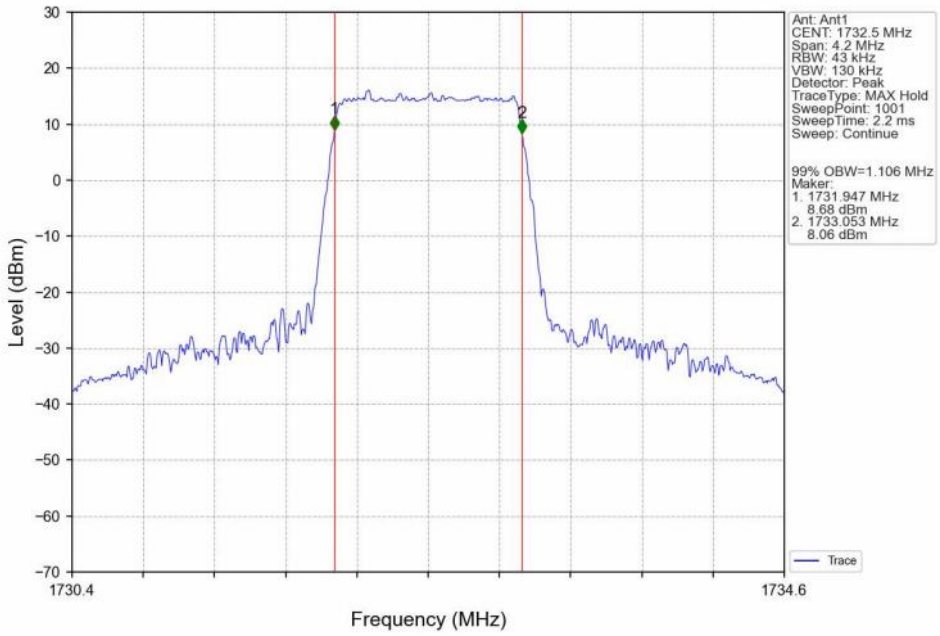
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



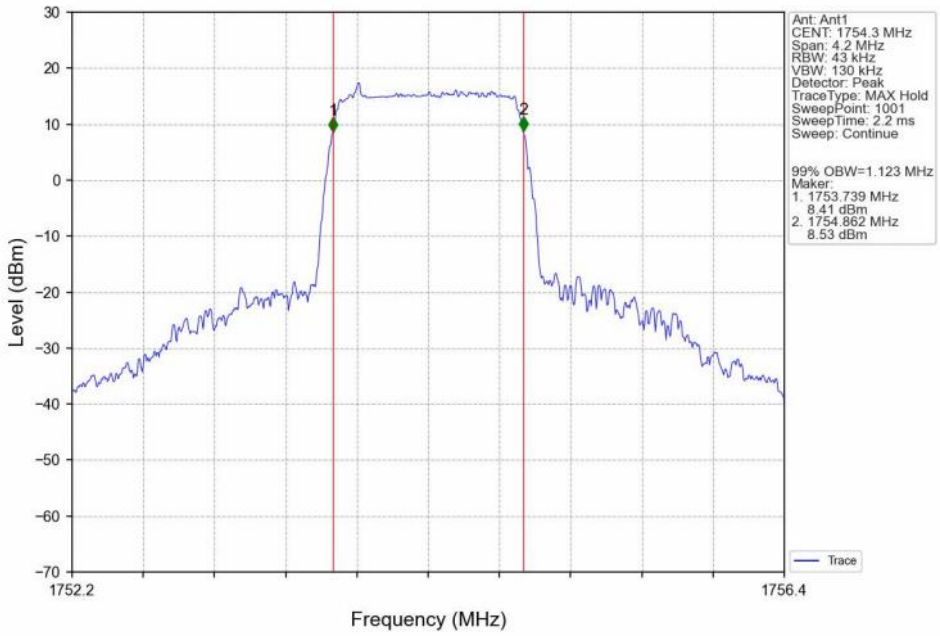
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



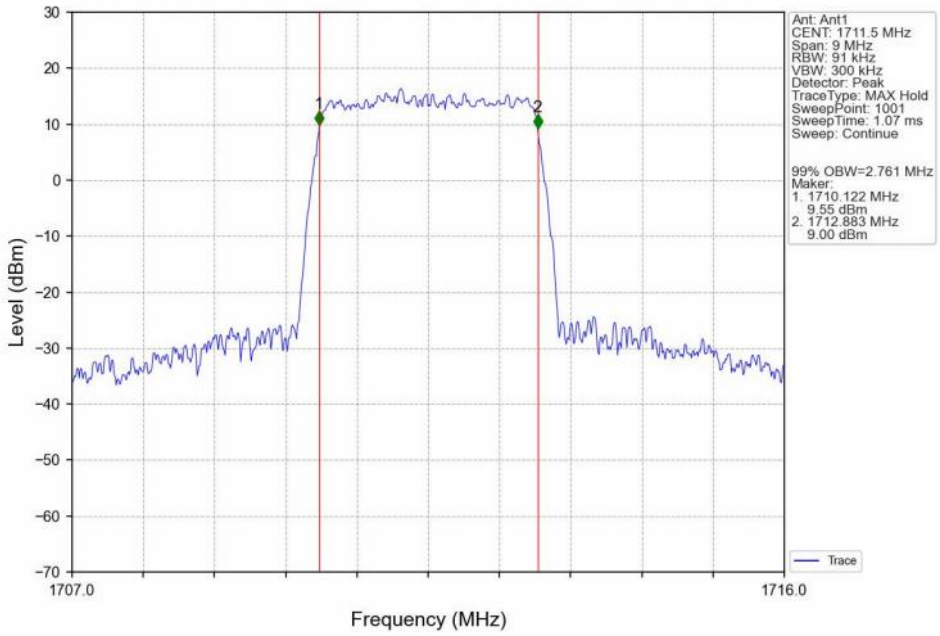
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



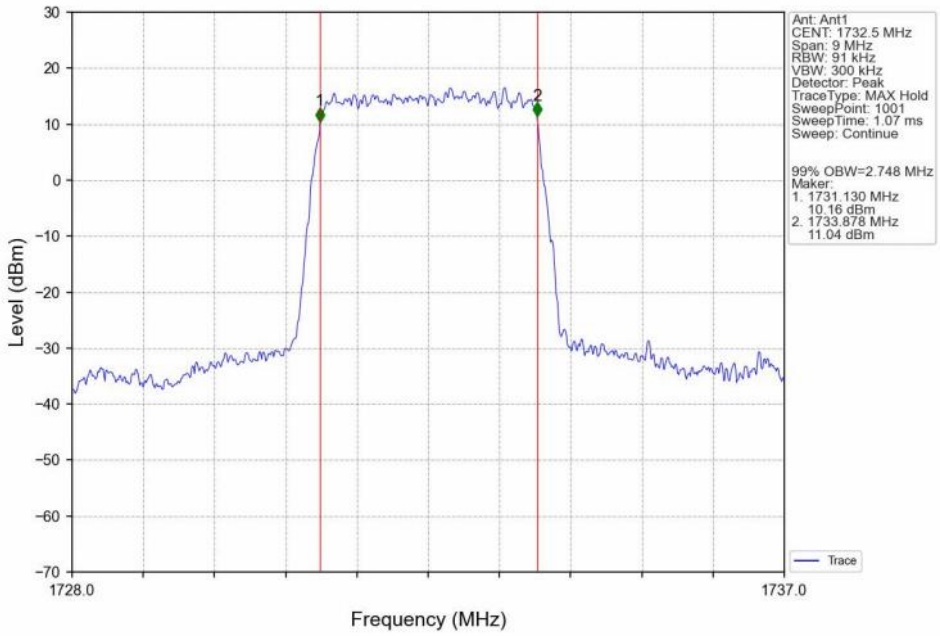
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



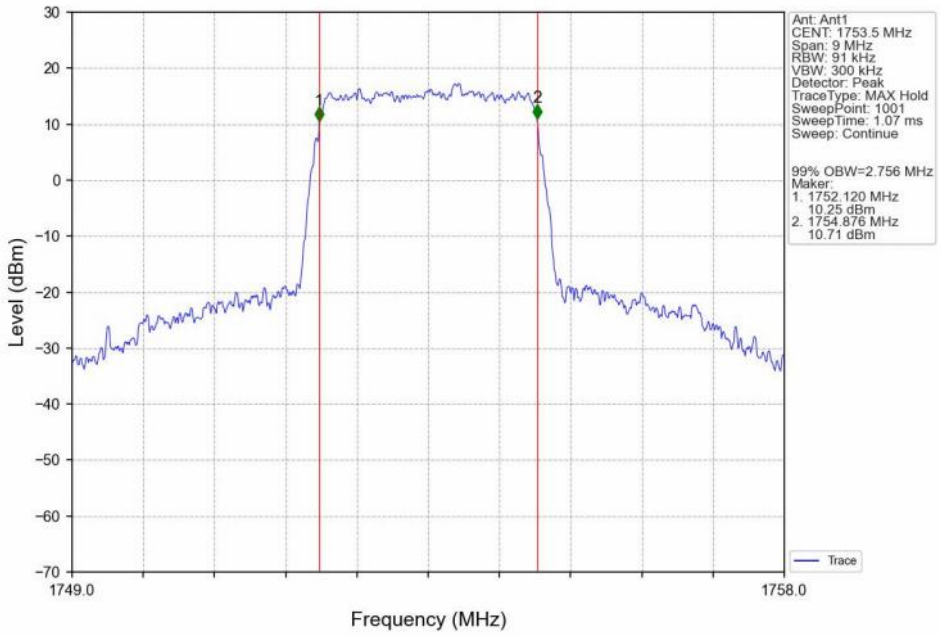
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



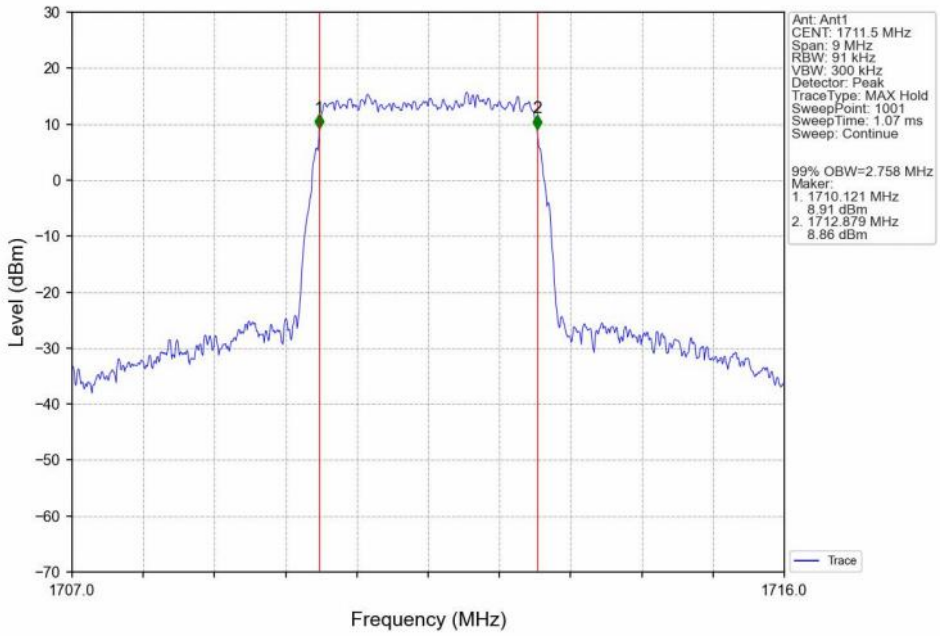
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



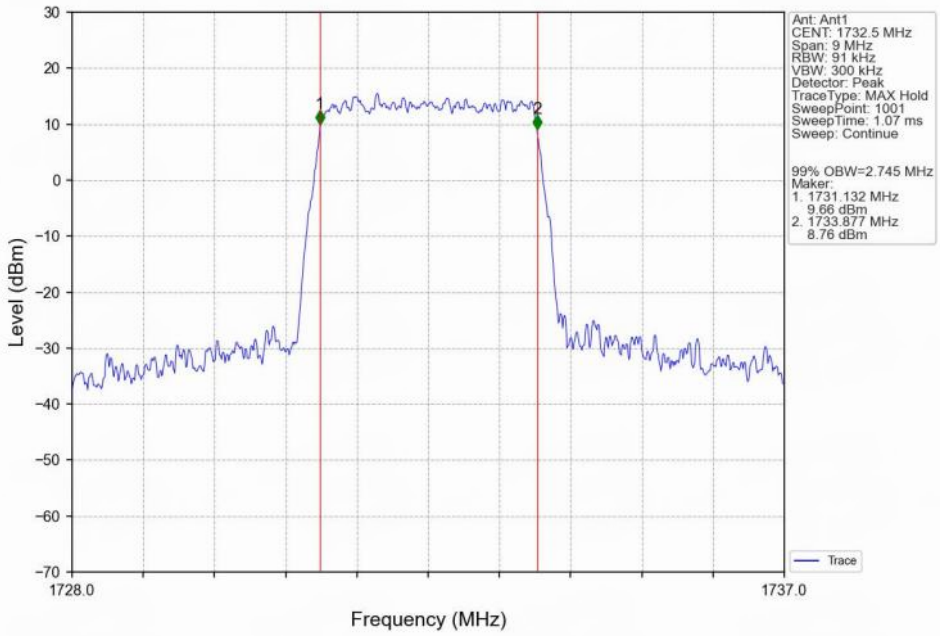
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



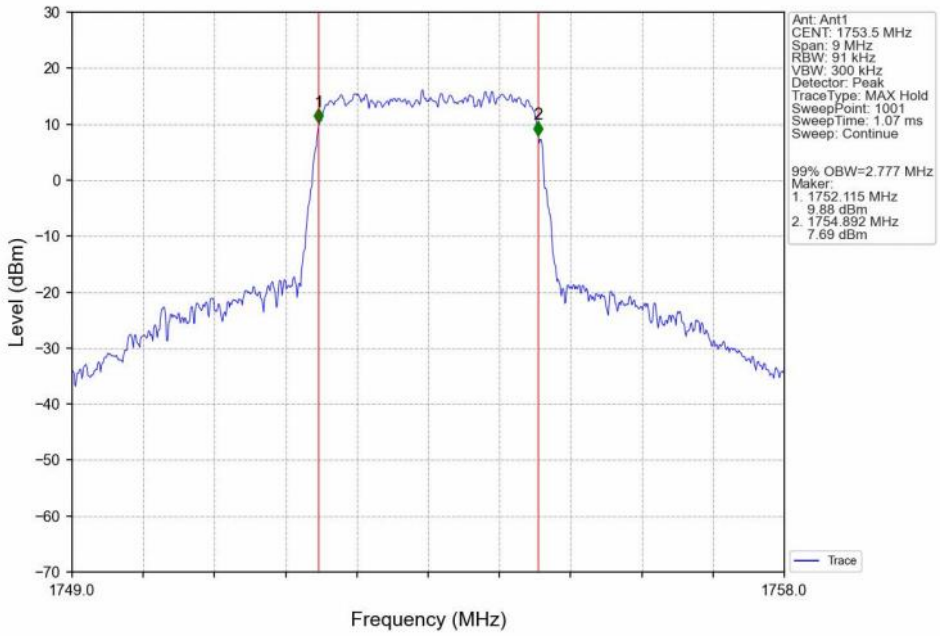
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



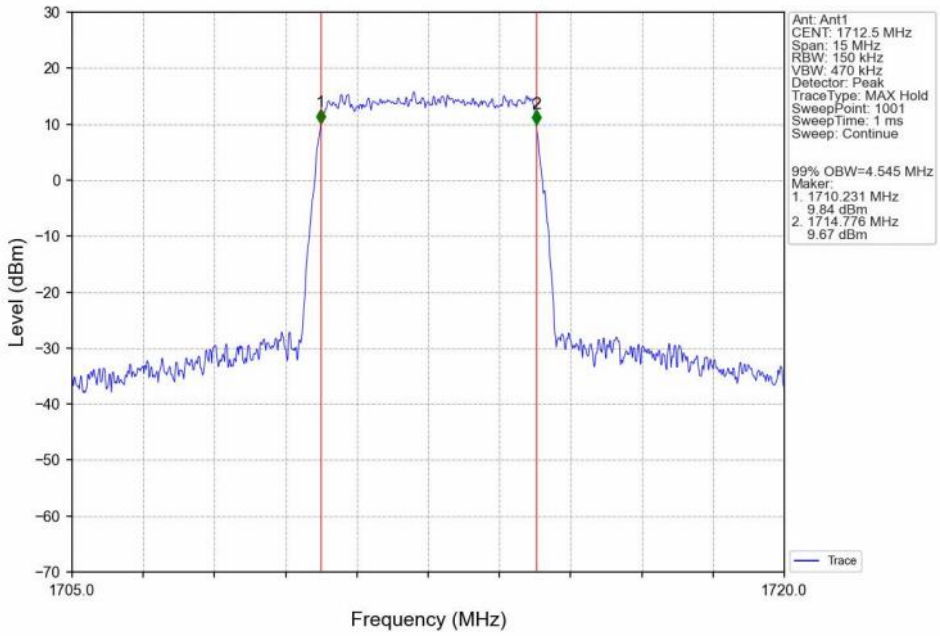
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



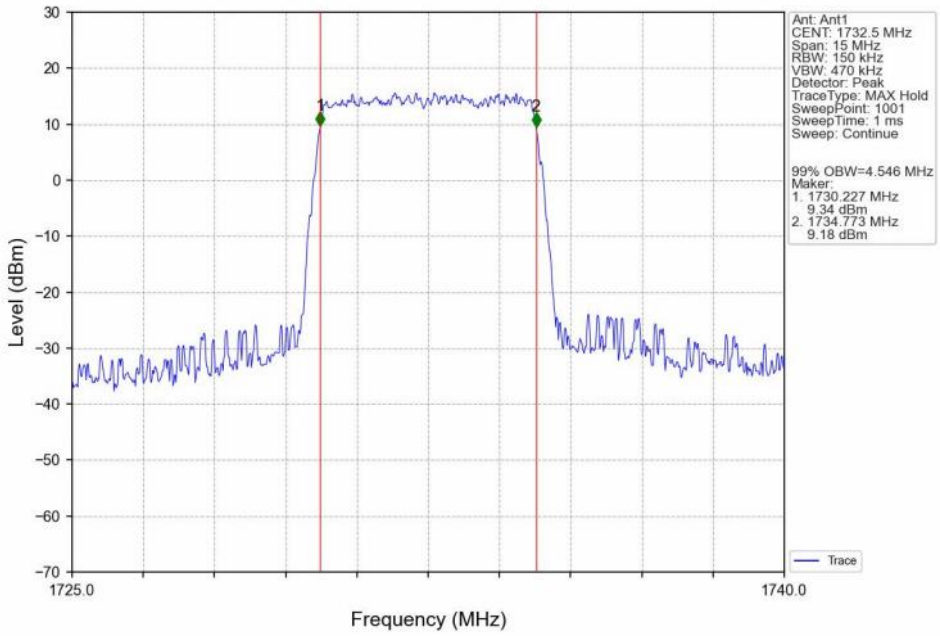
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



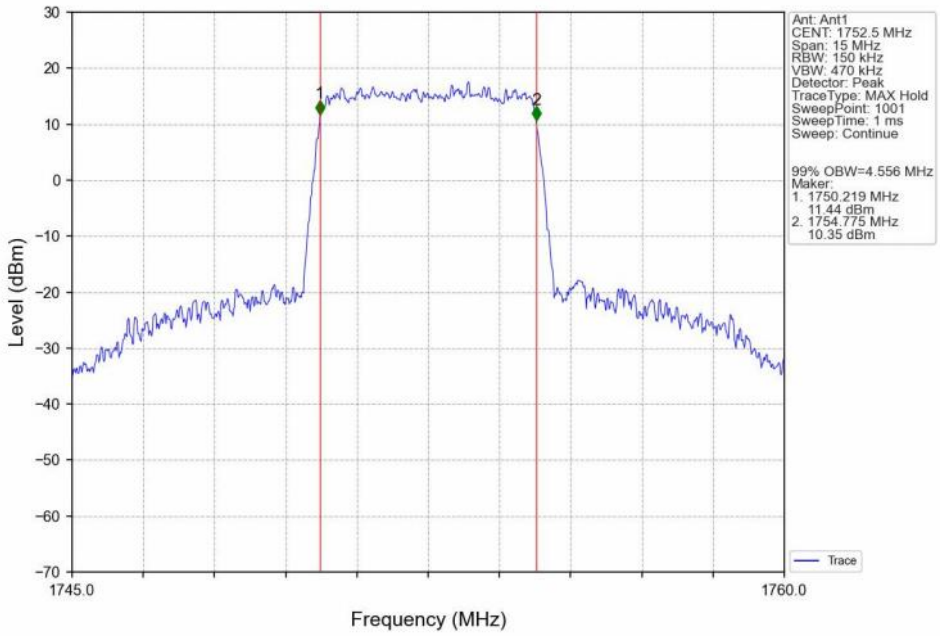
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



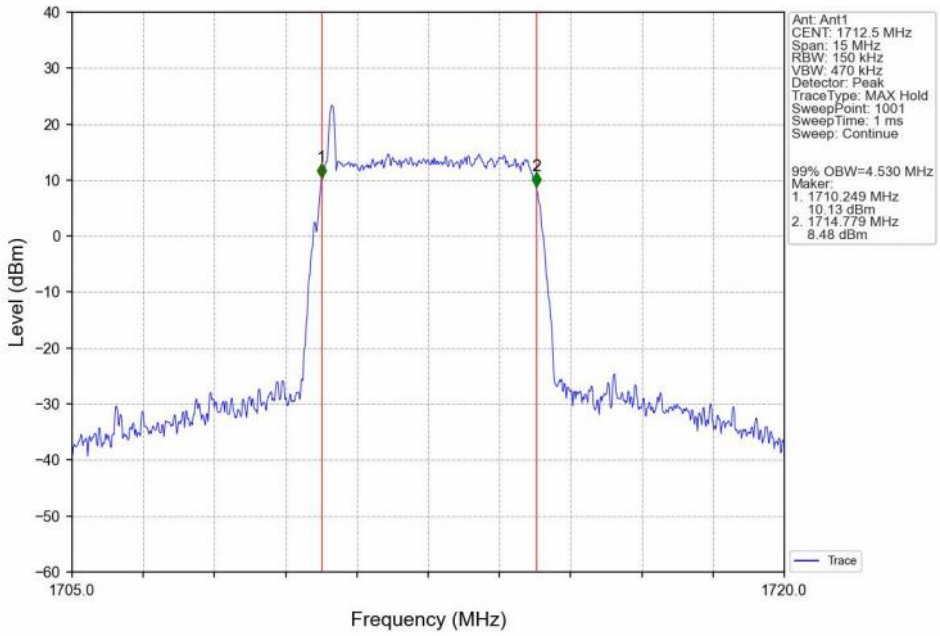
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



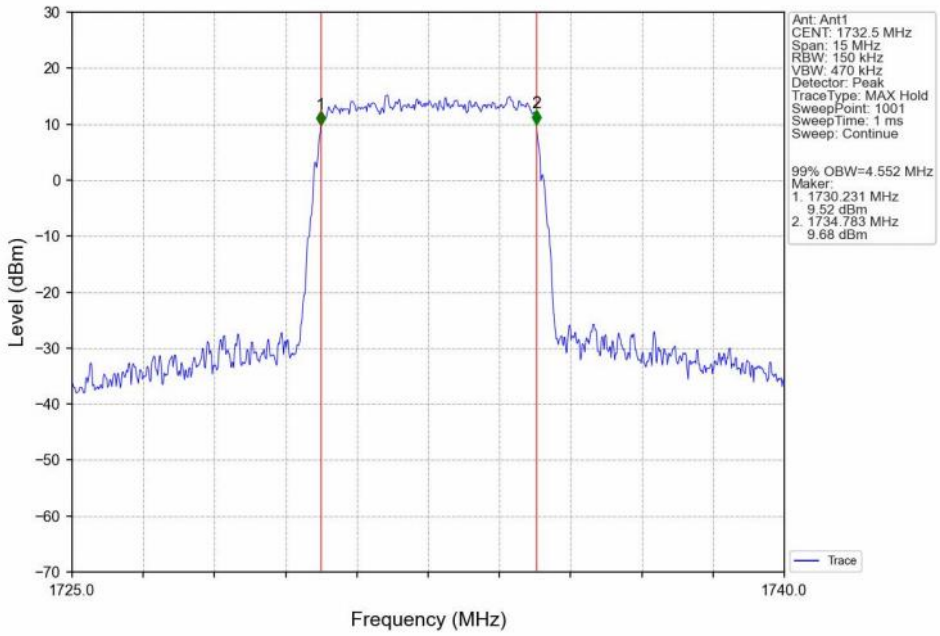
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



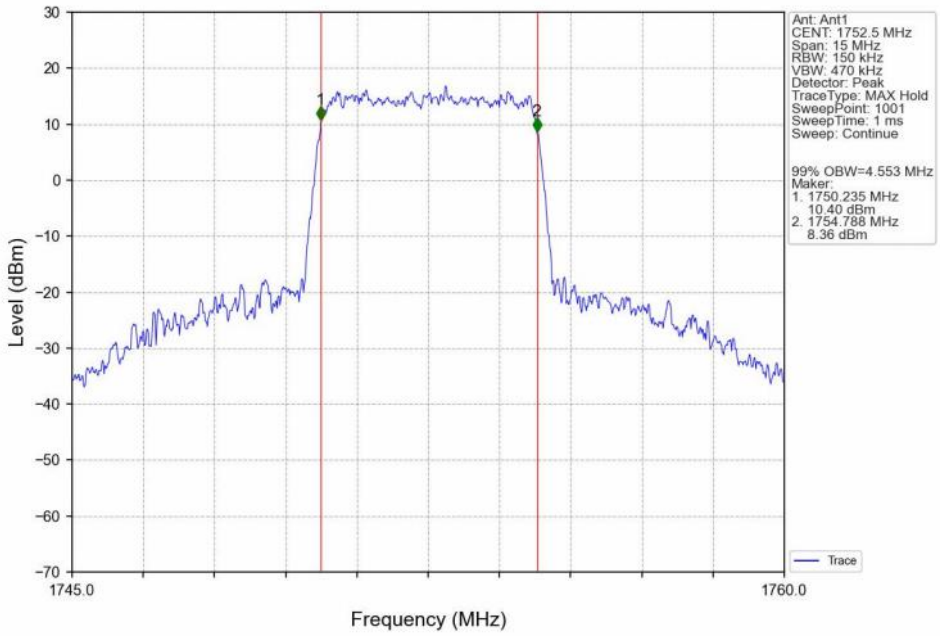
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



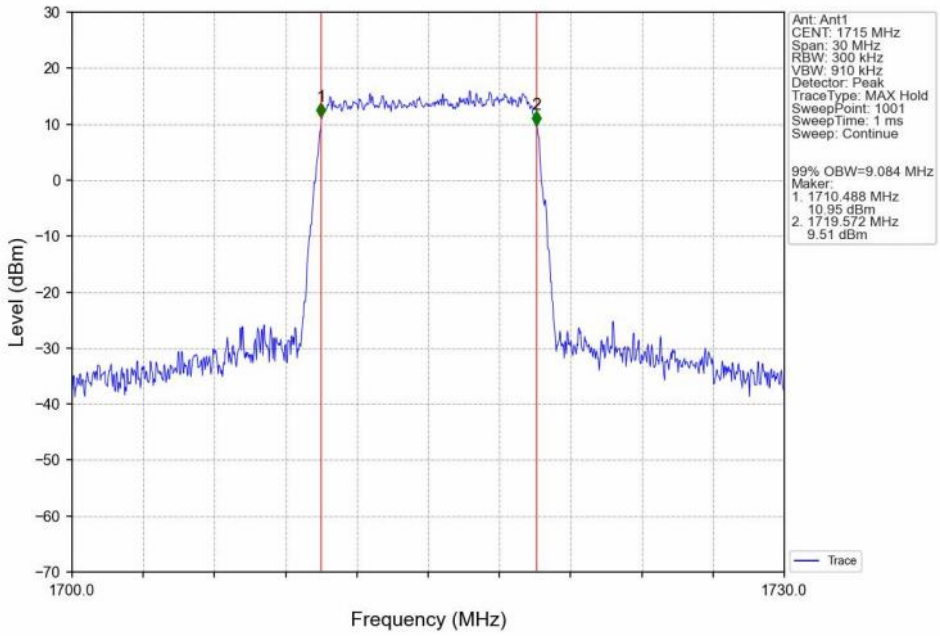
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



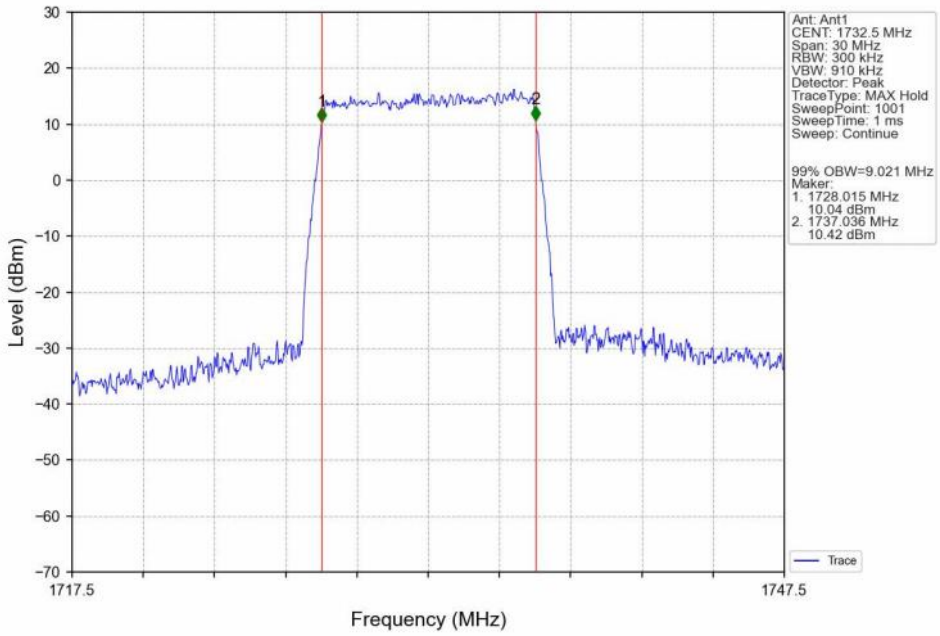
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



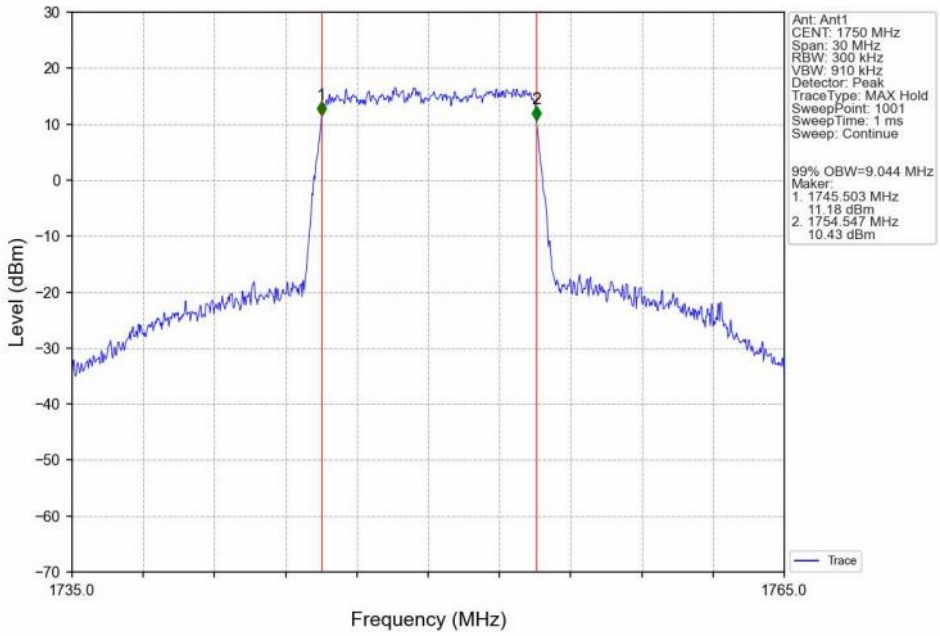
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



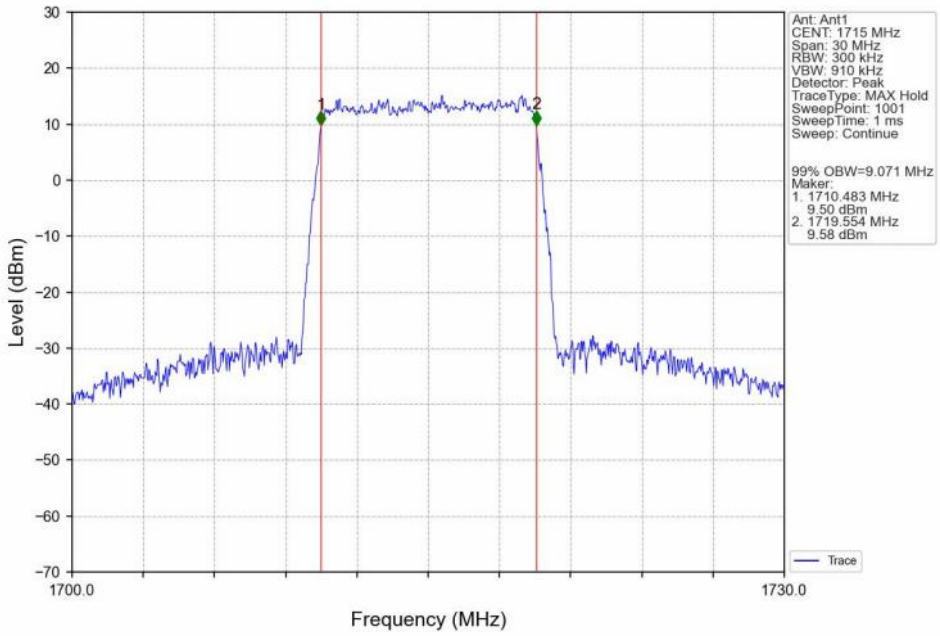
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



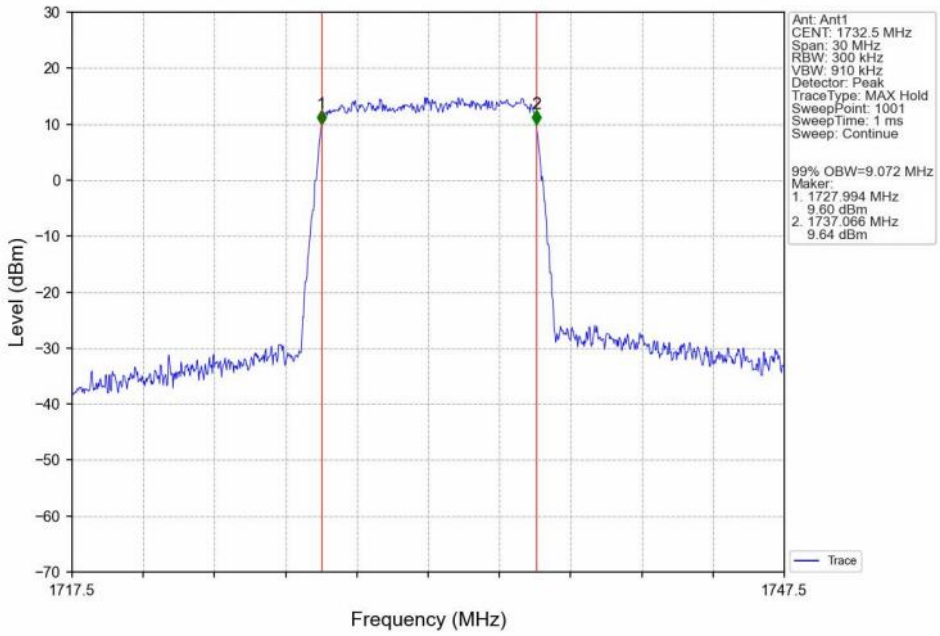
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



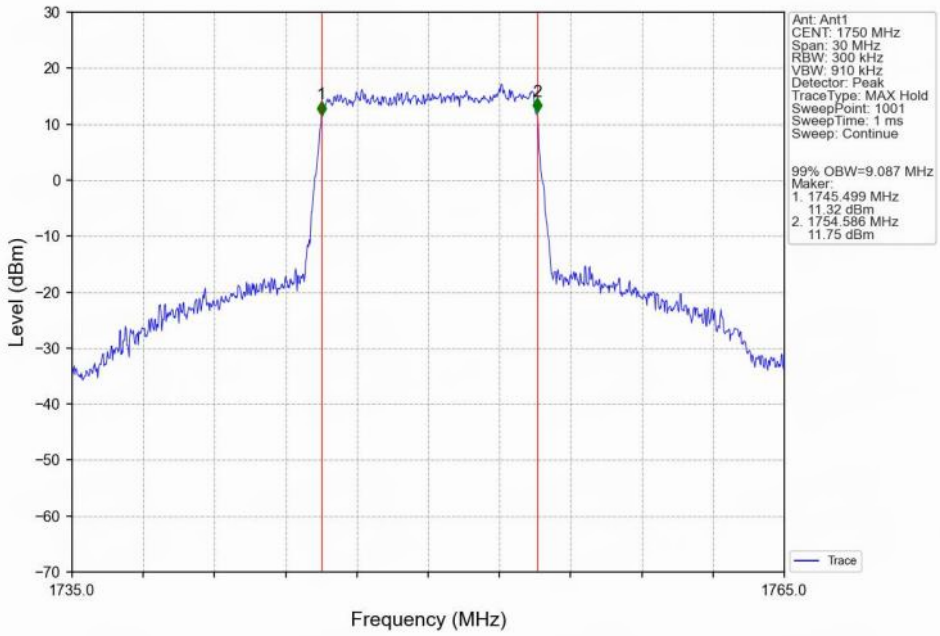
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



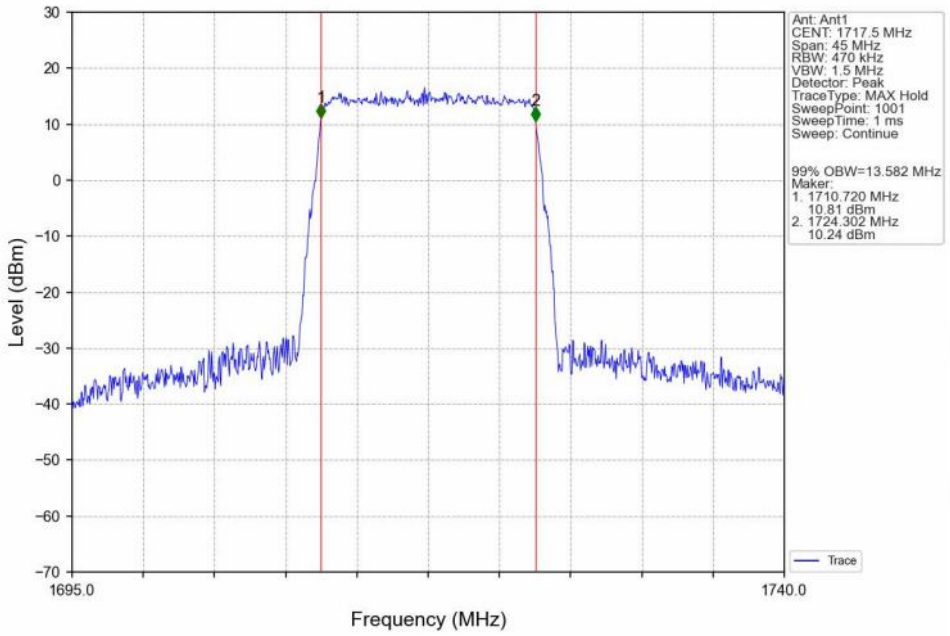
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



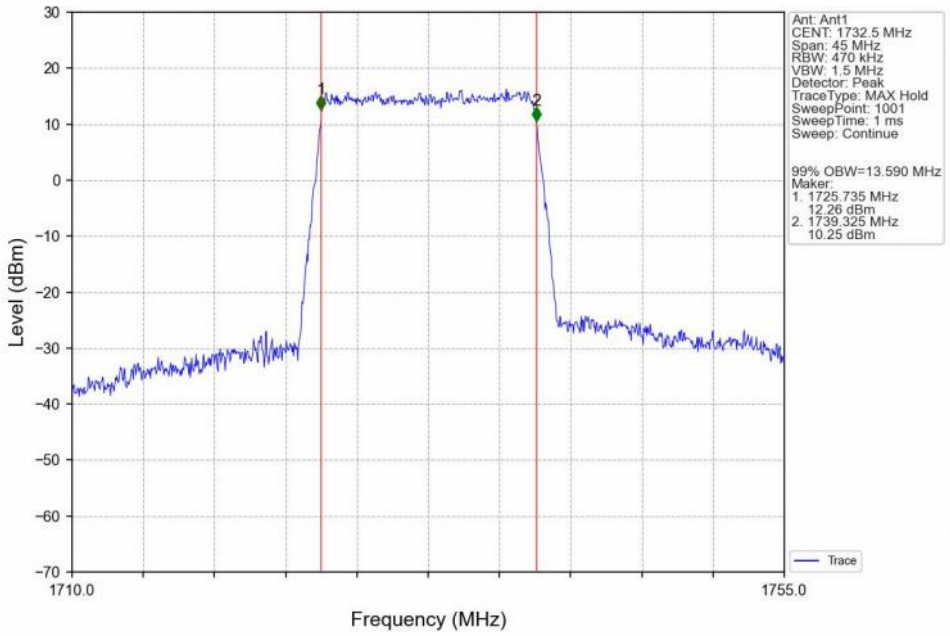
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



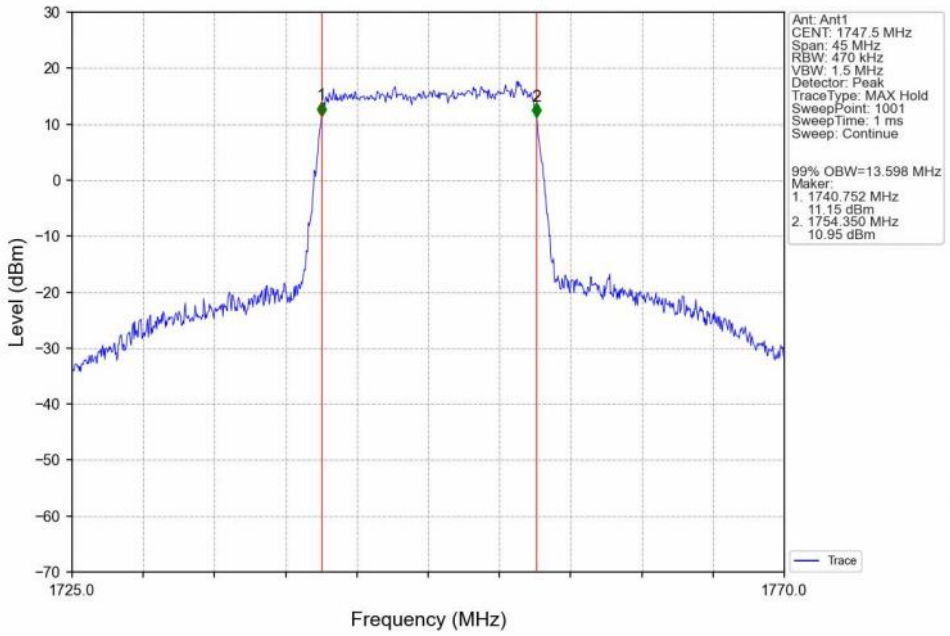
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



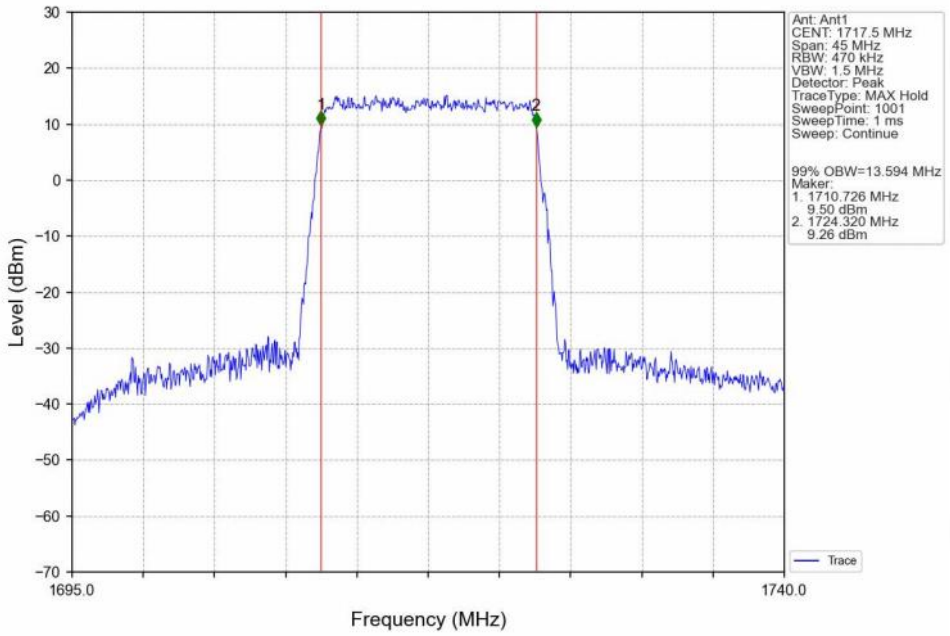
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



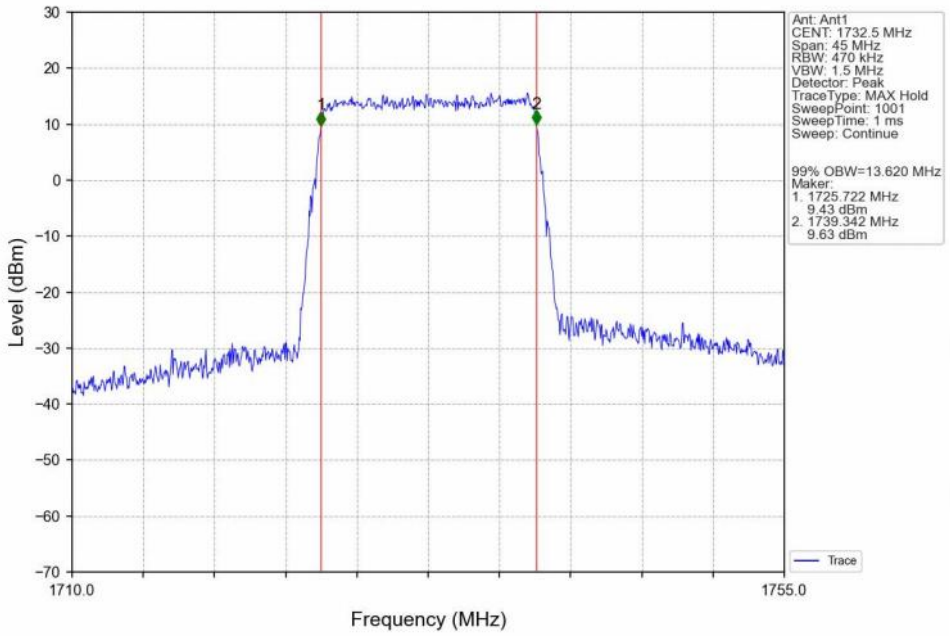
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



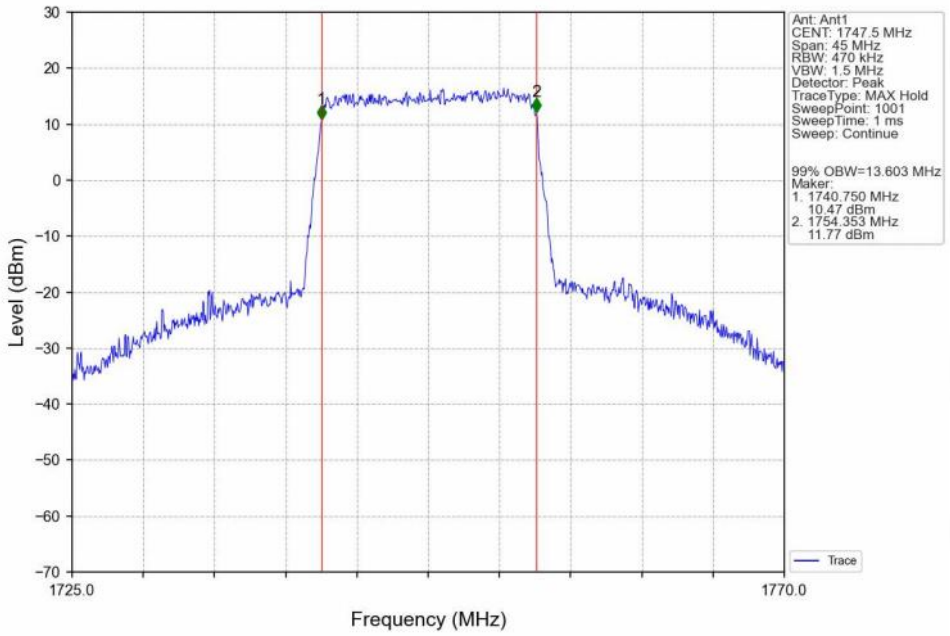
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



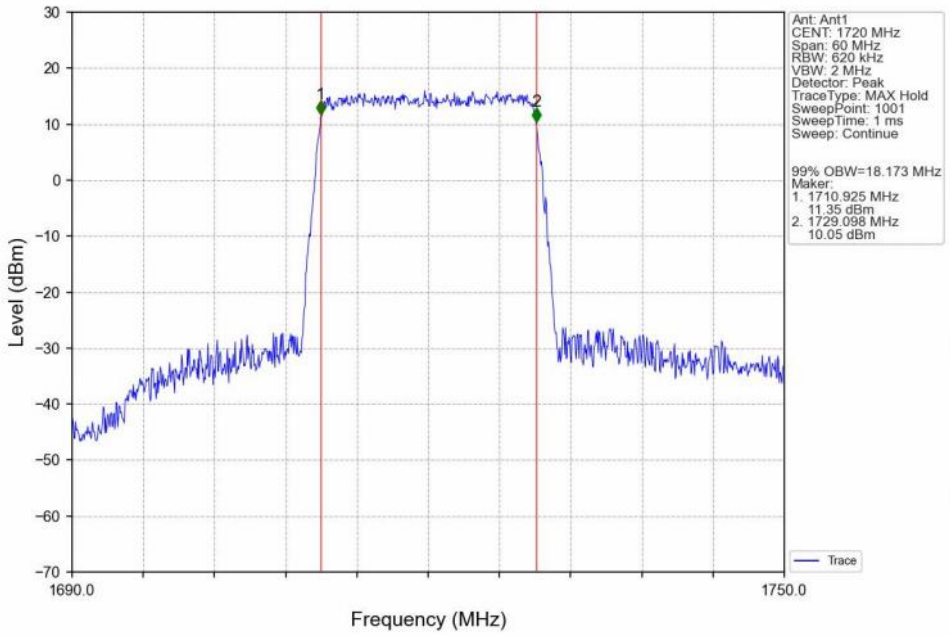
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



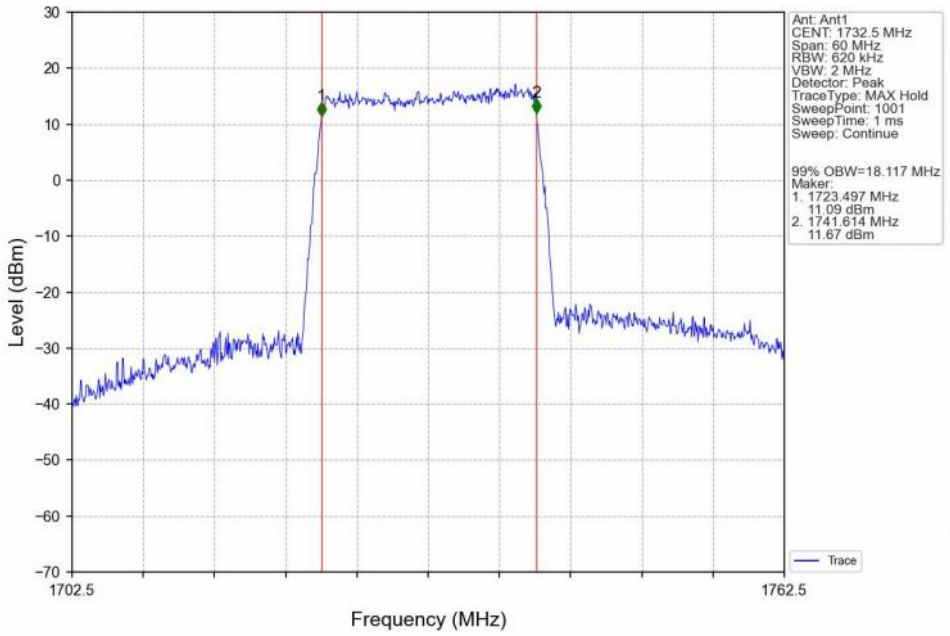
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



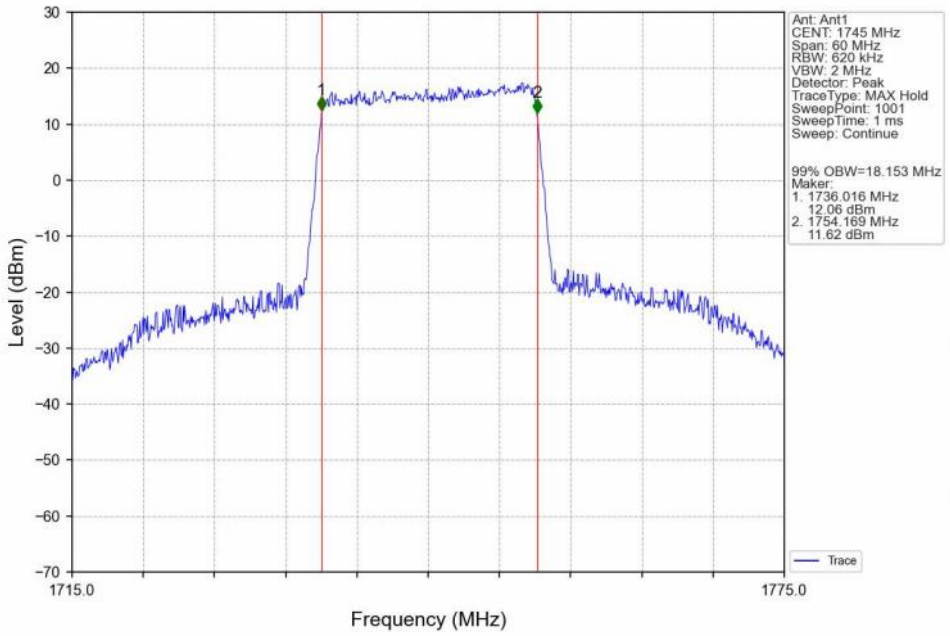
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



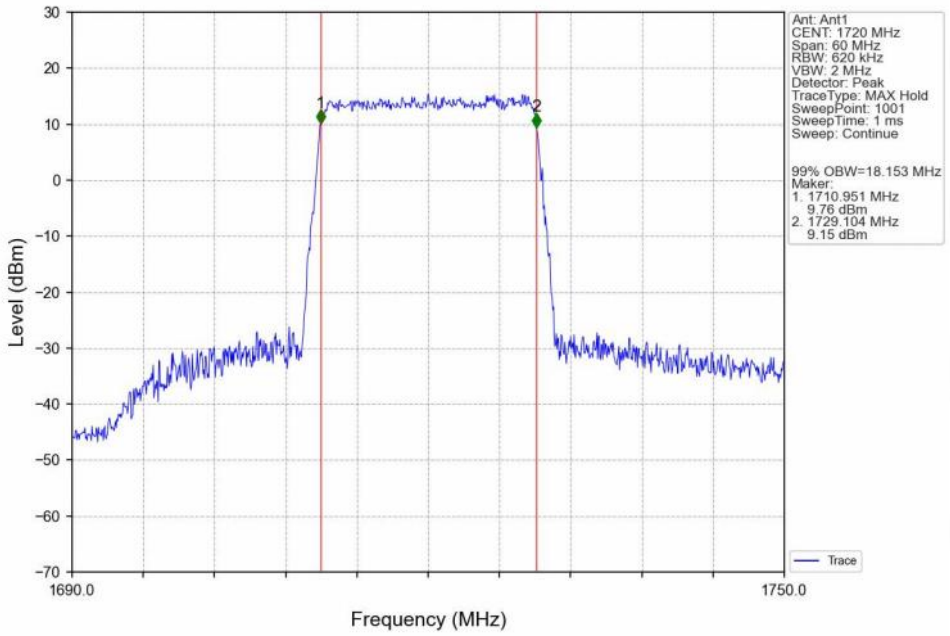
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



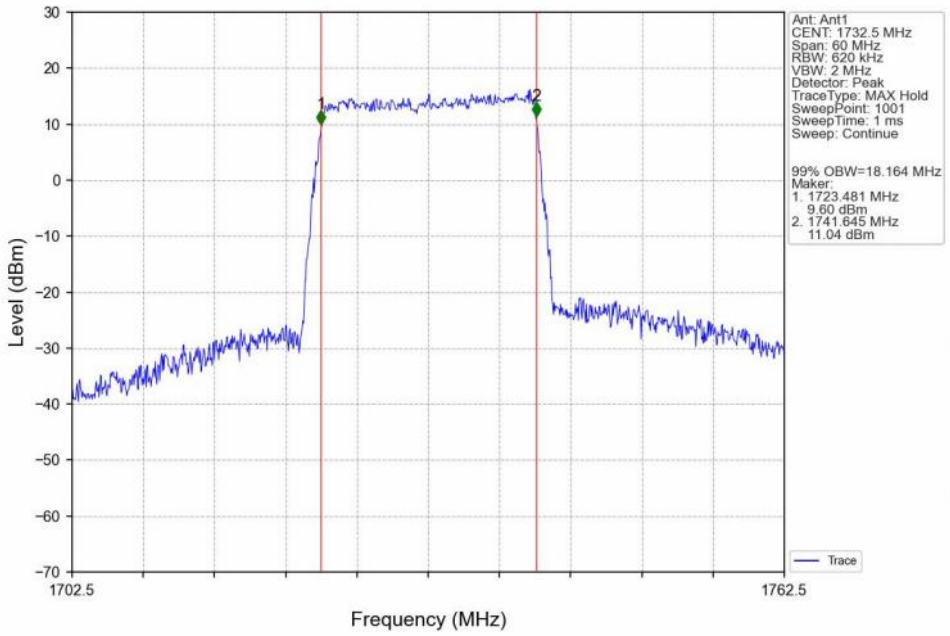
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



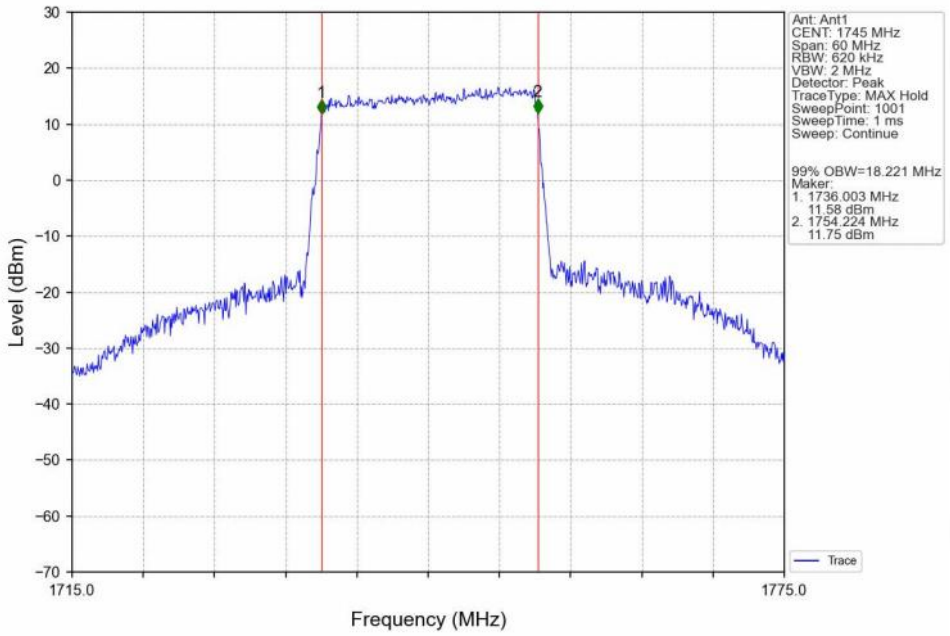
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV

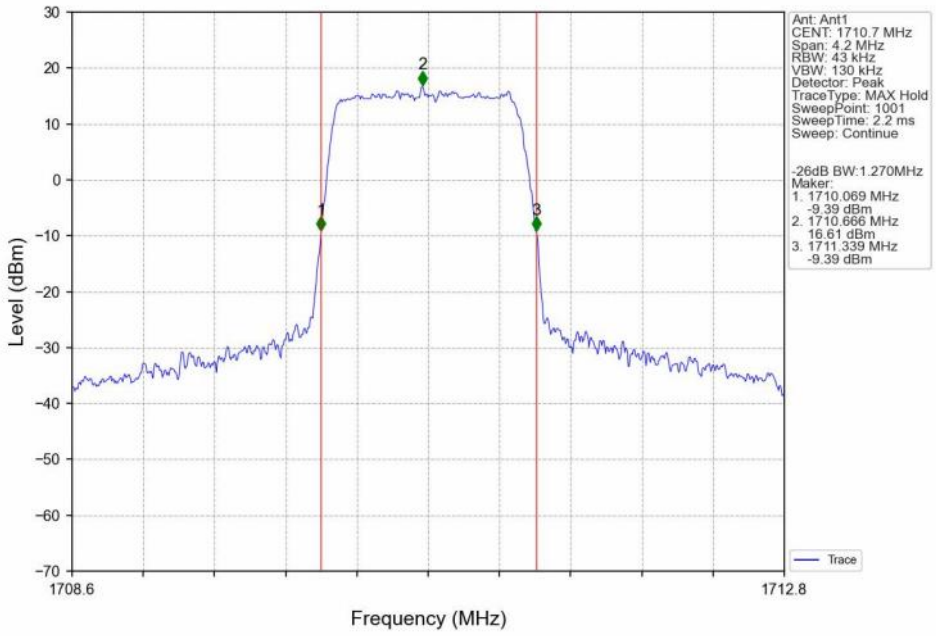


Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

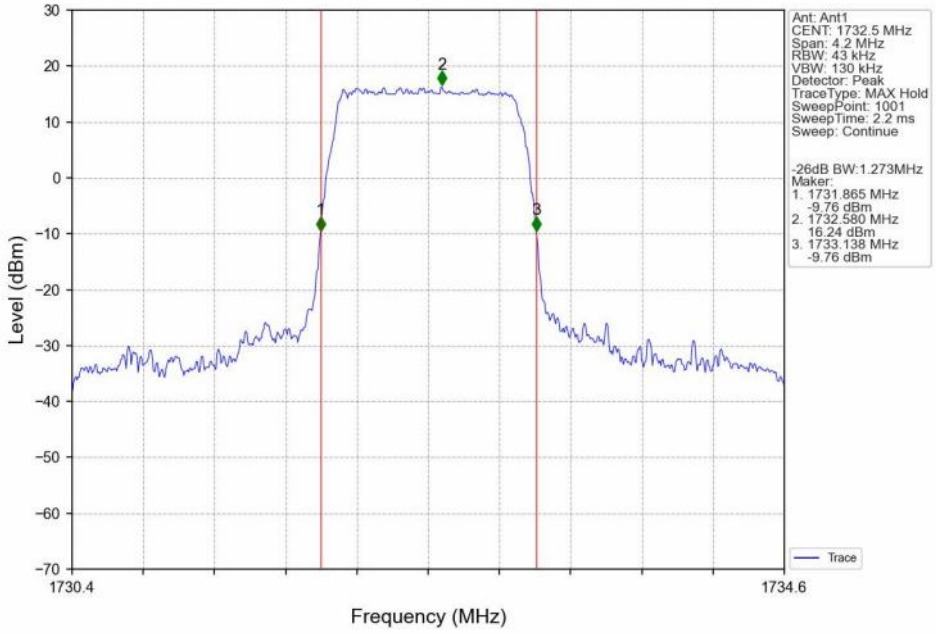


4.2.2 Band4_XDB

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

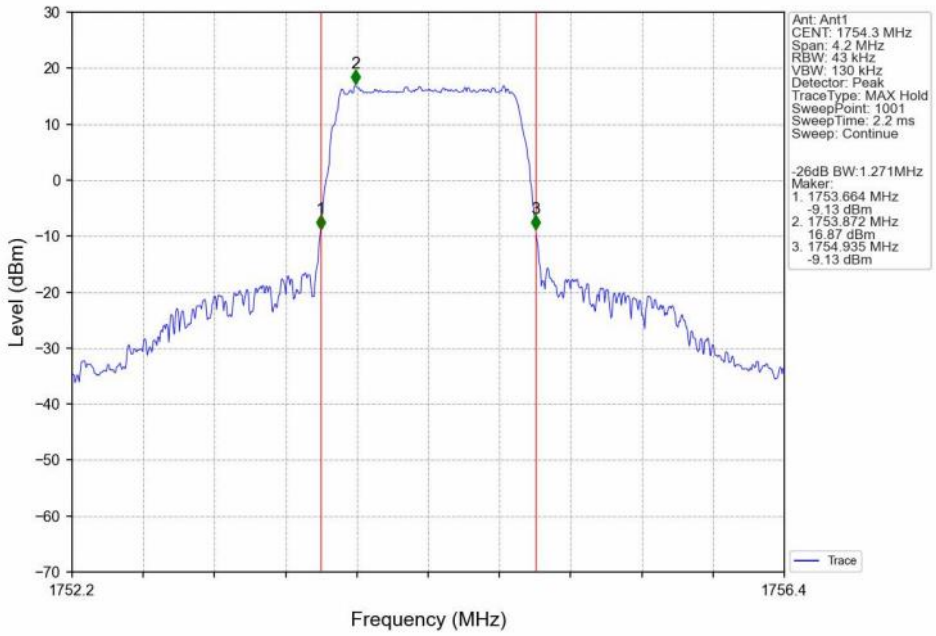


Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

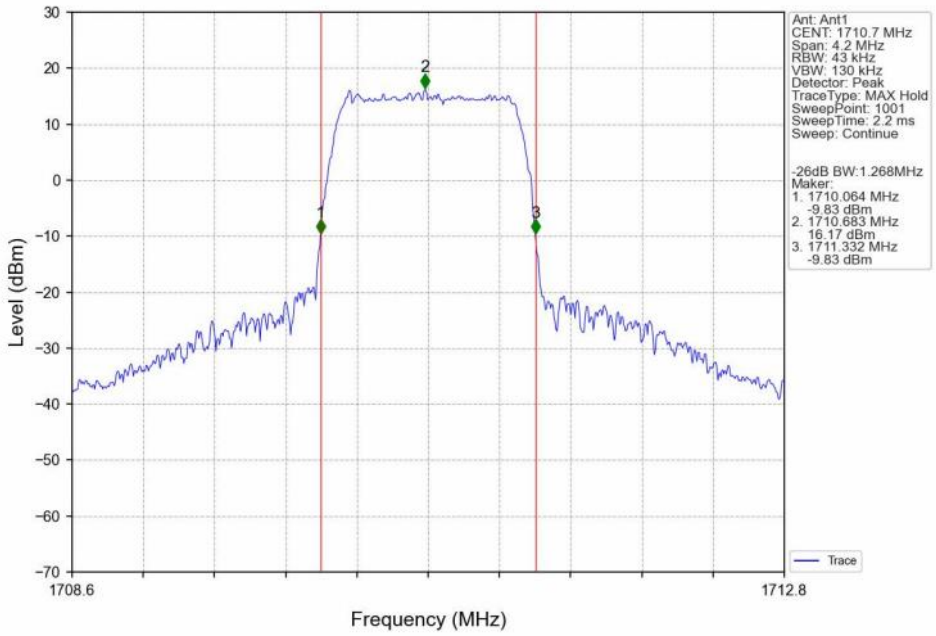


BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

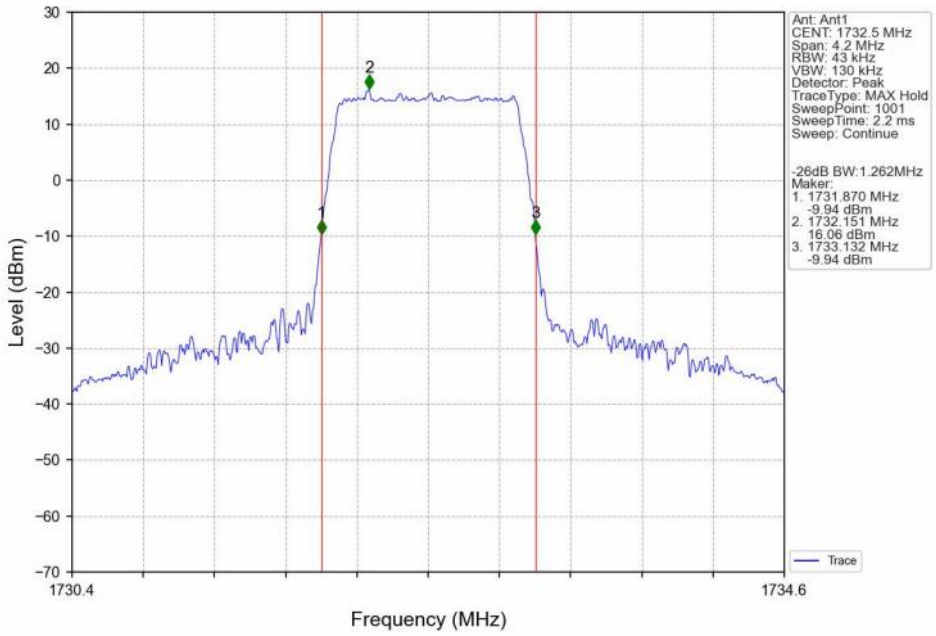
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



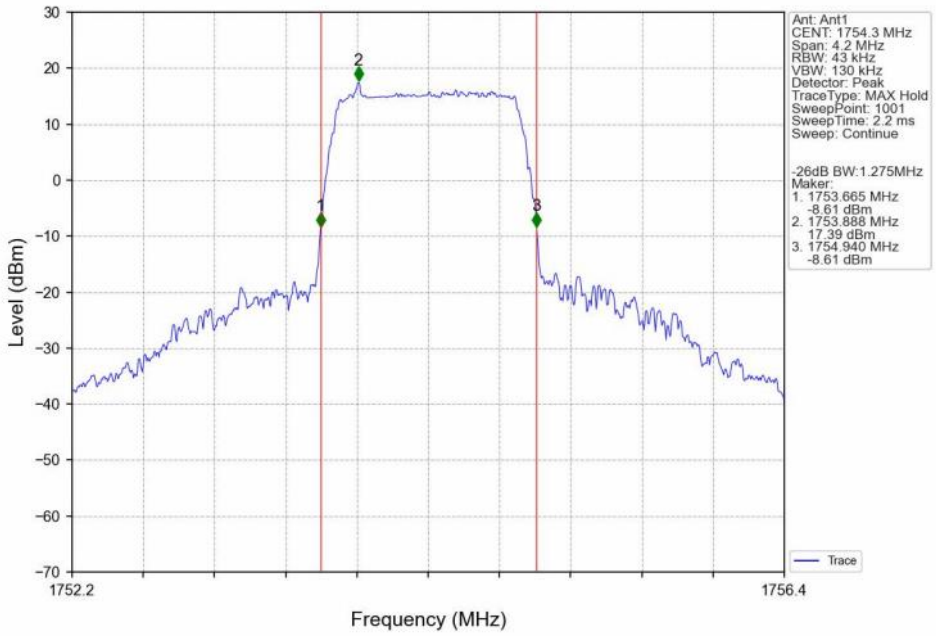
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



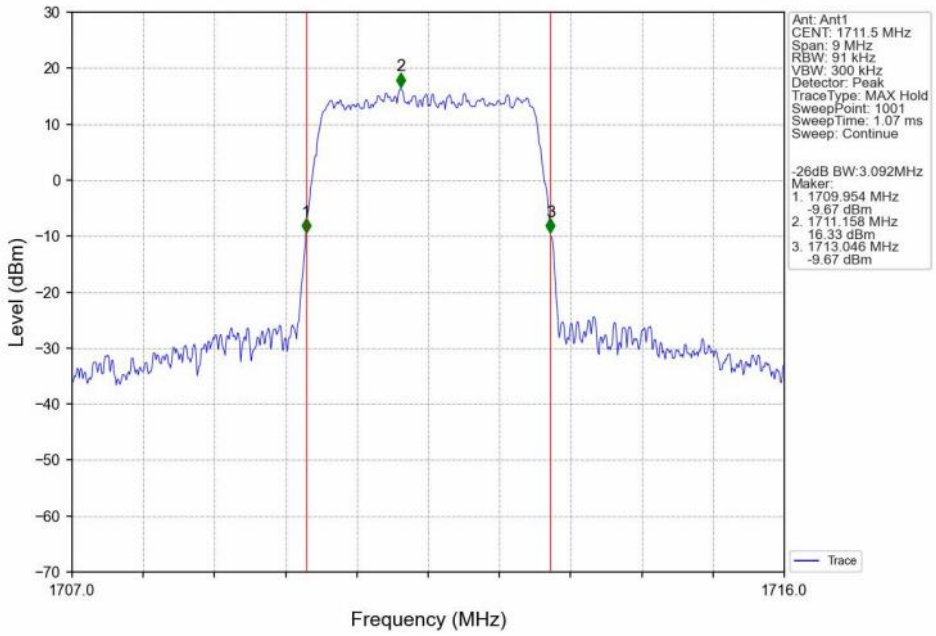
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



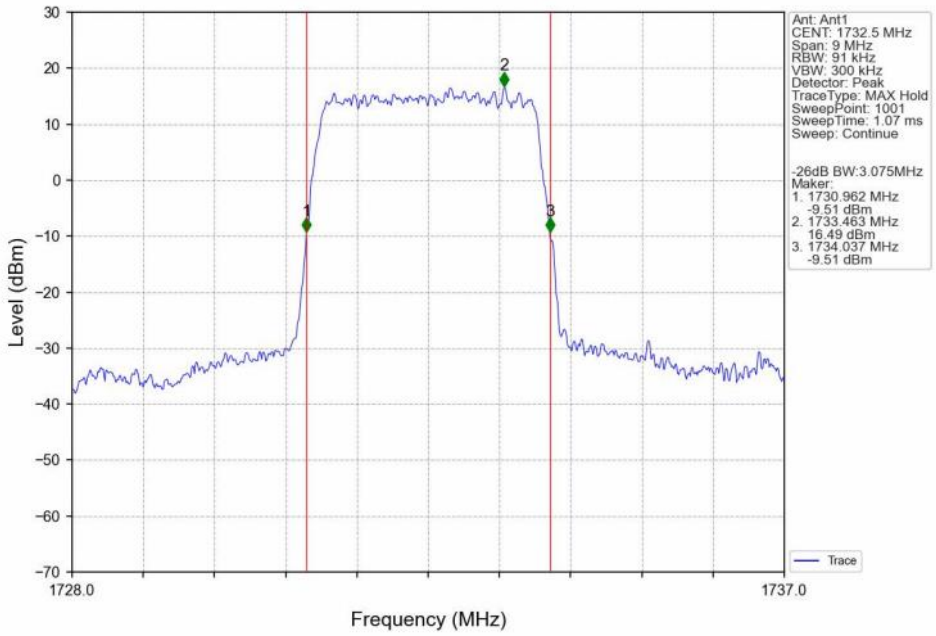
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



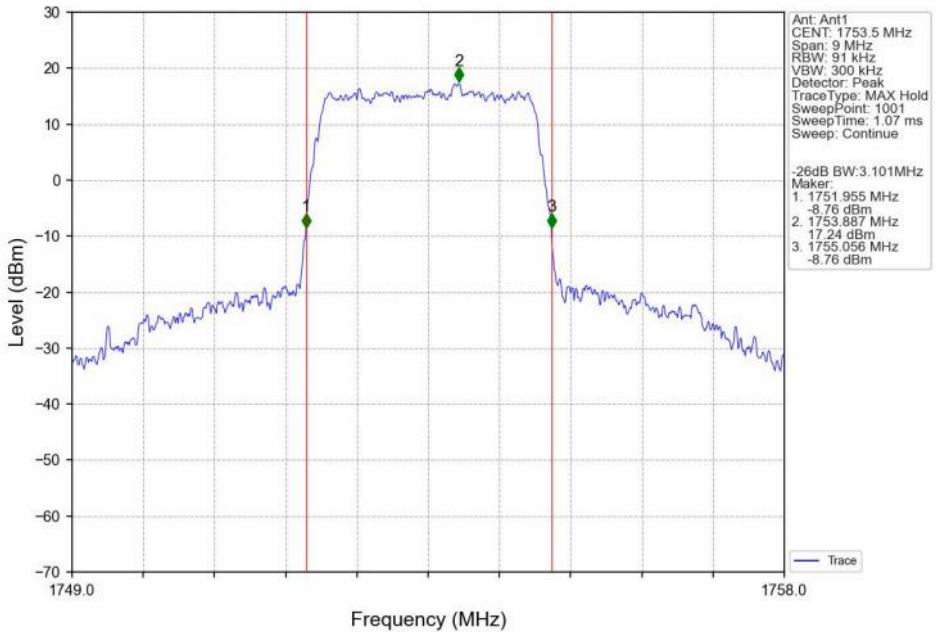
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



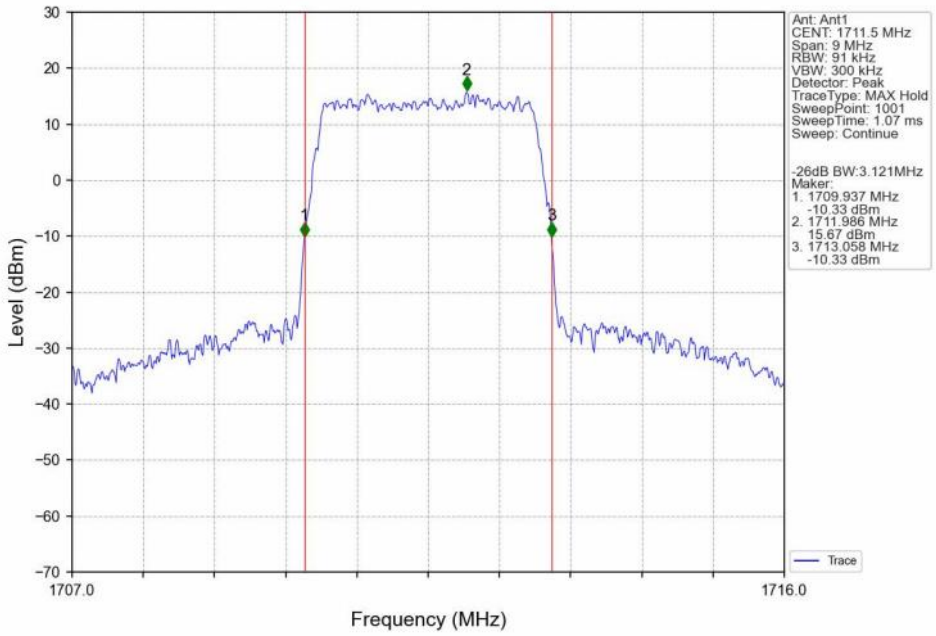
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



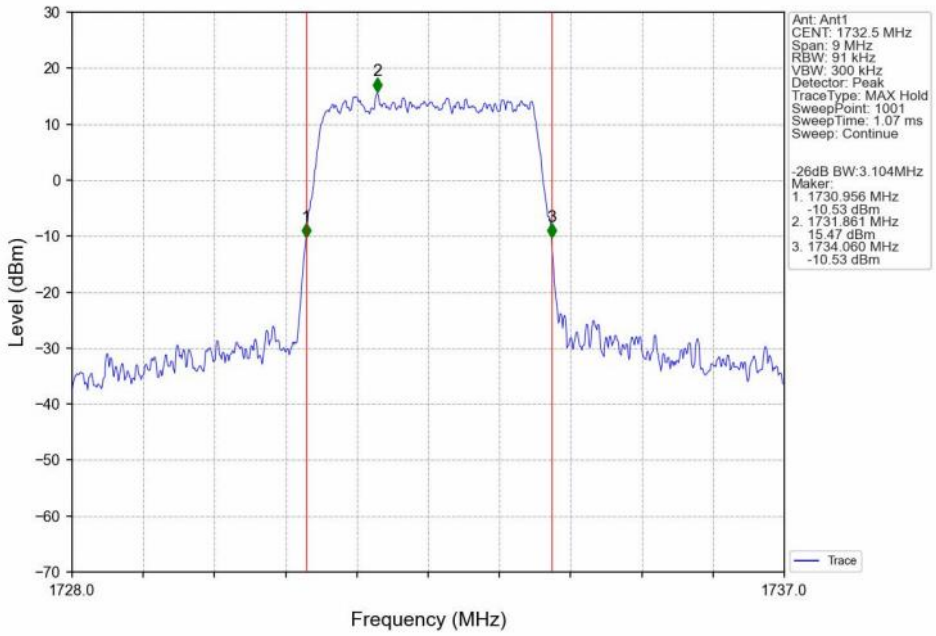
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



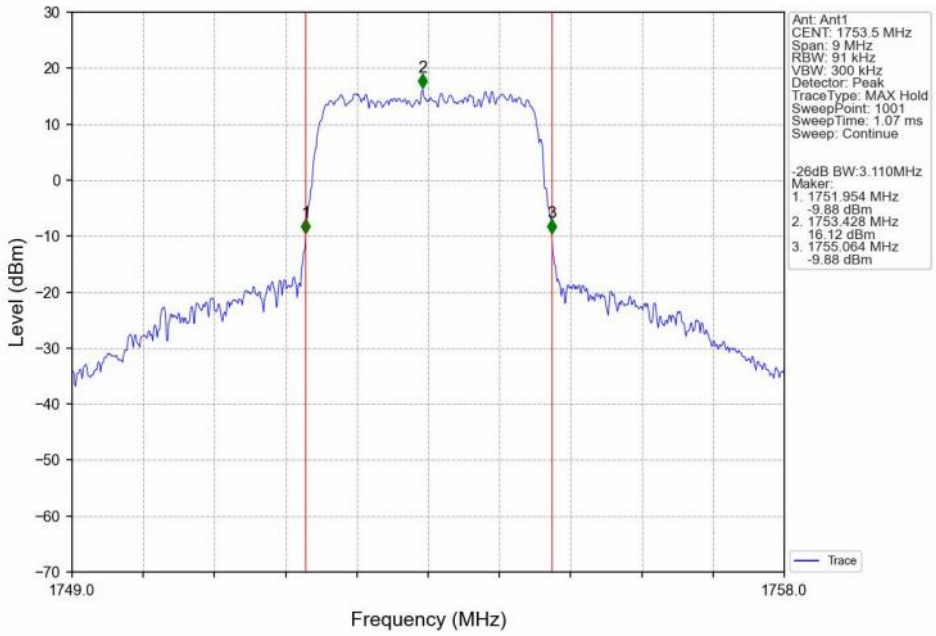
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



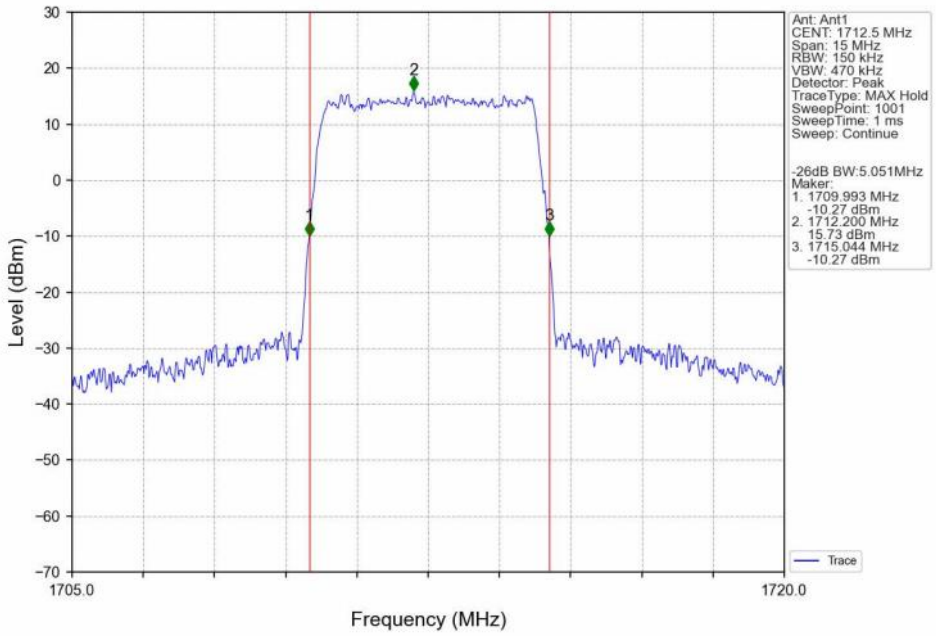
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



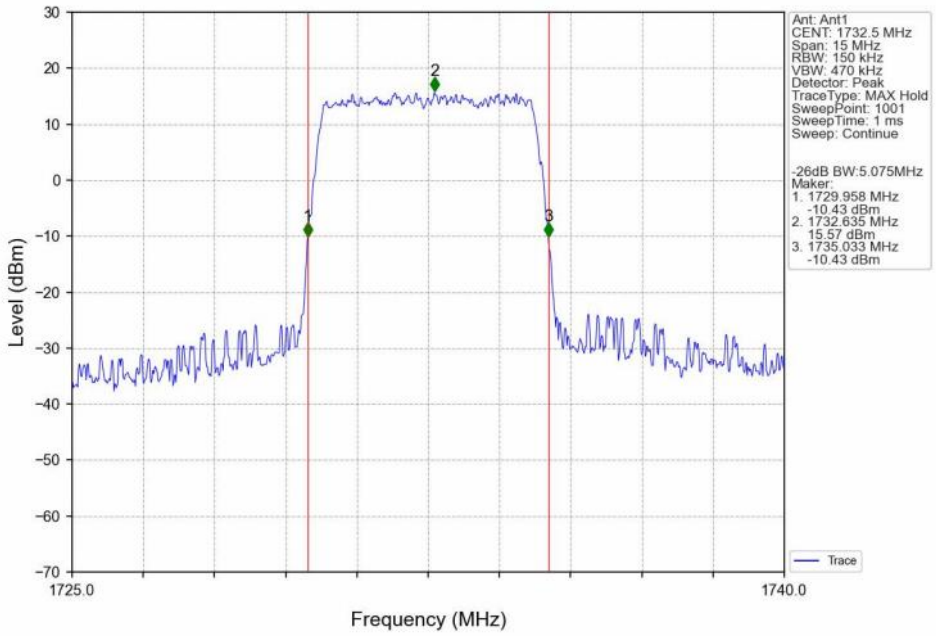
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



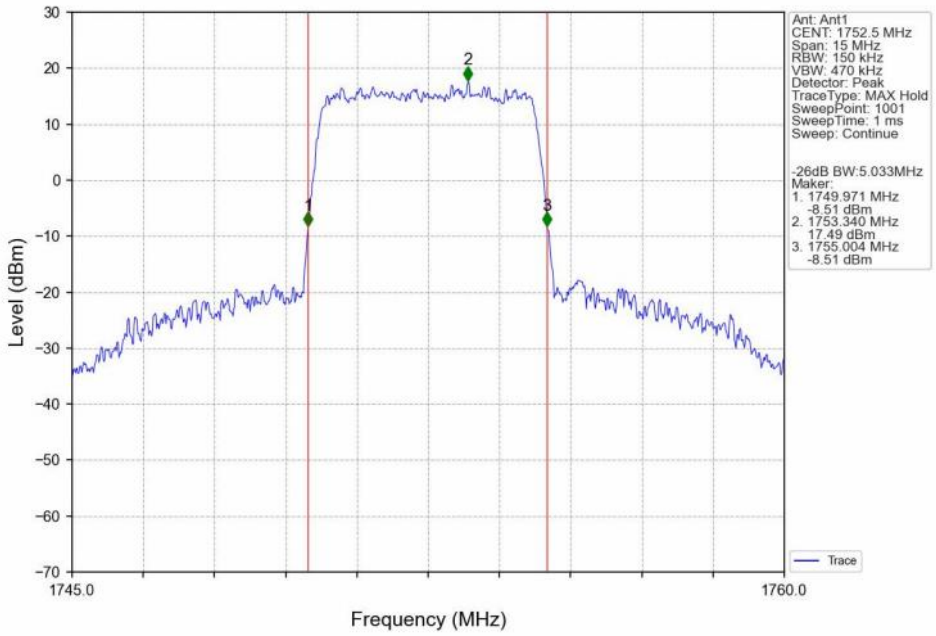
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



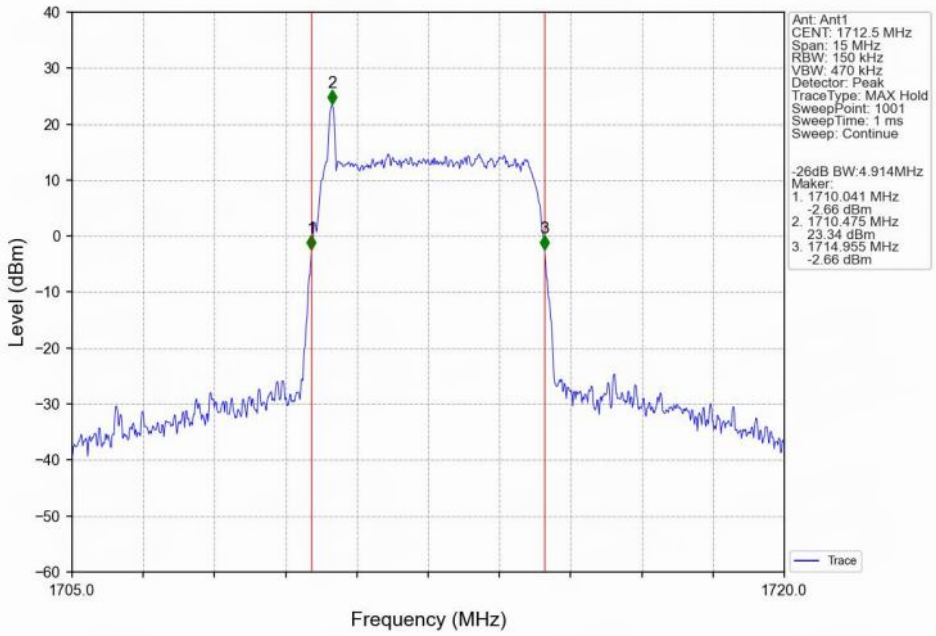
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



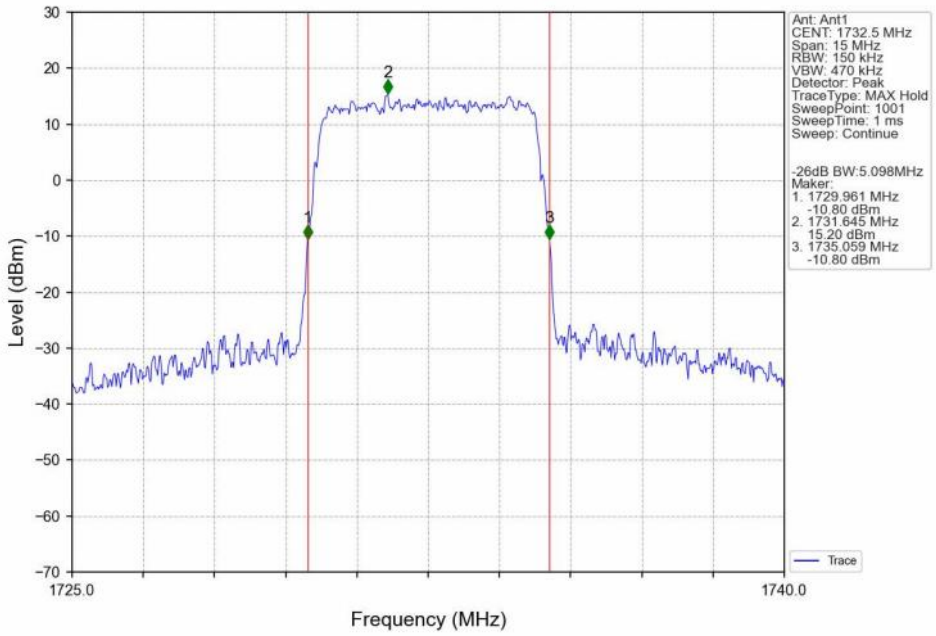
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



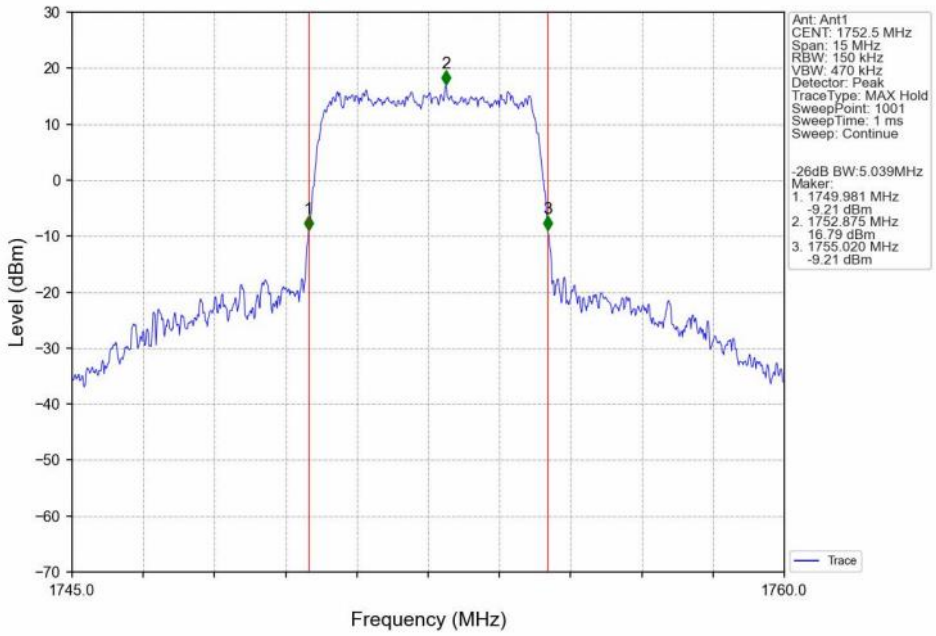
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



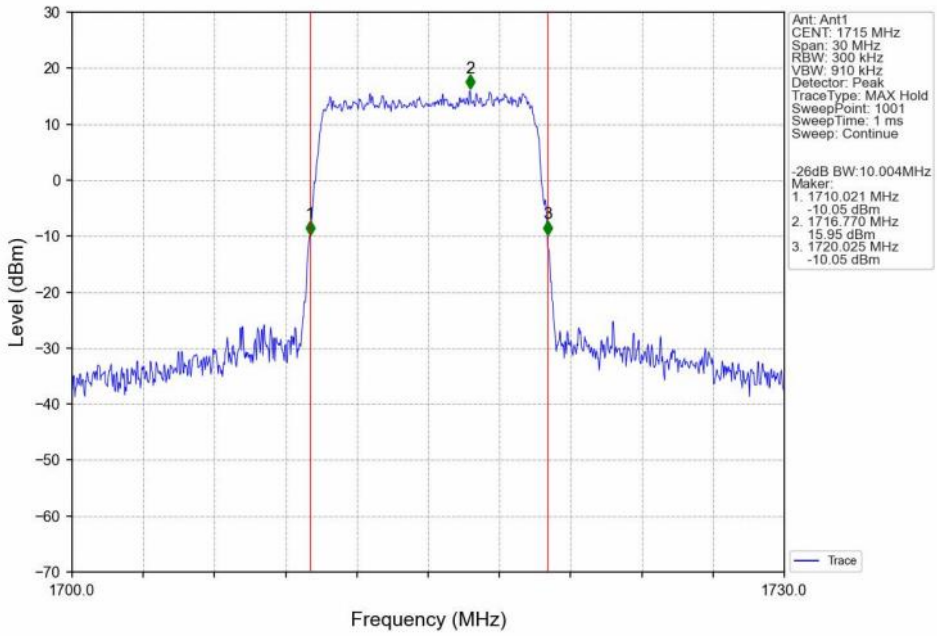
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



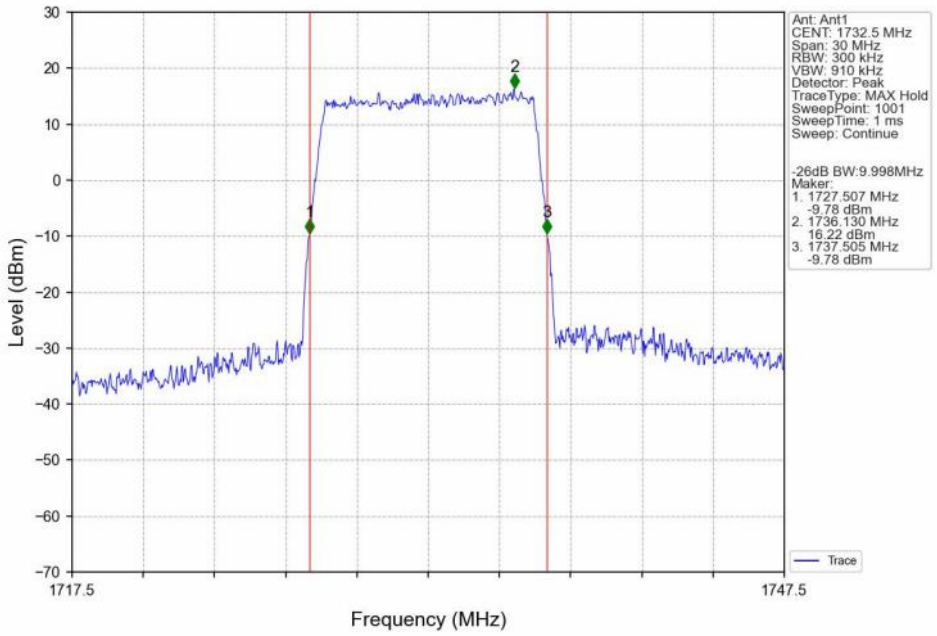
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



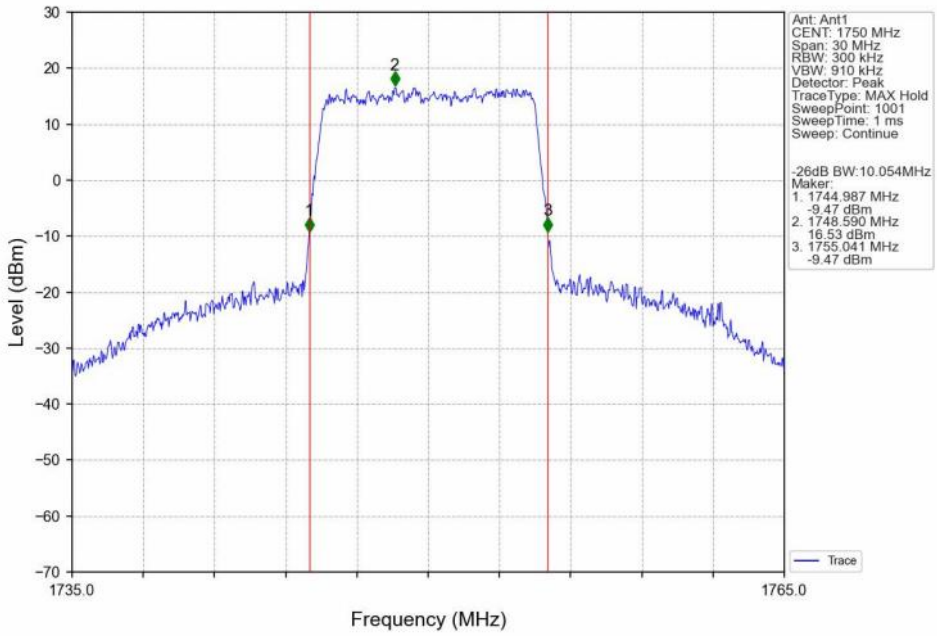
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



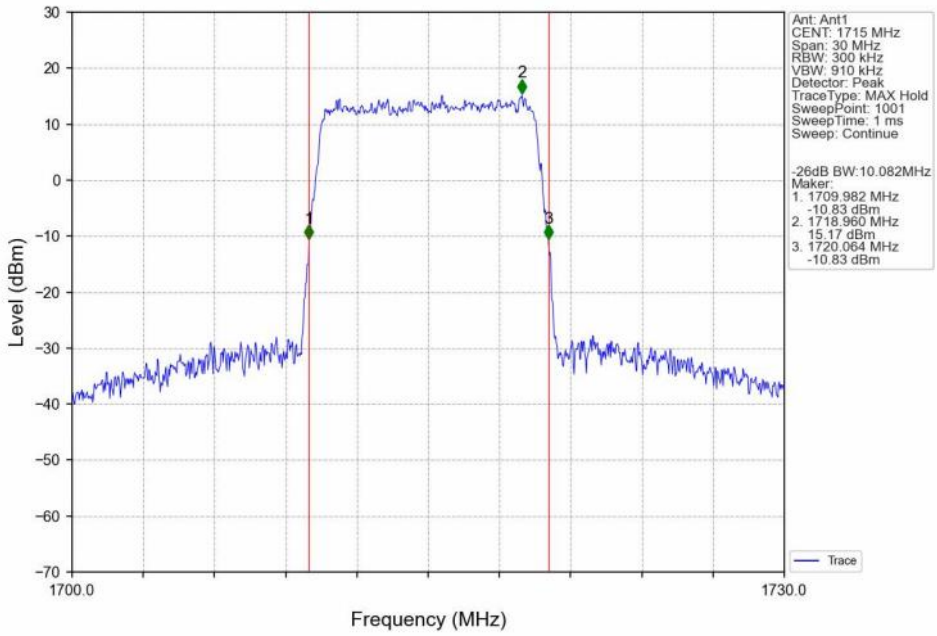
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



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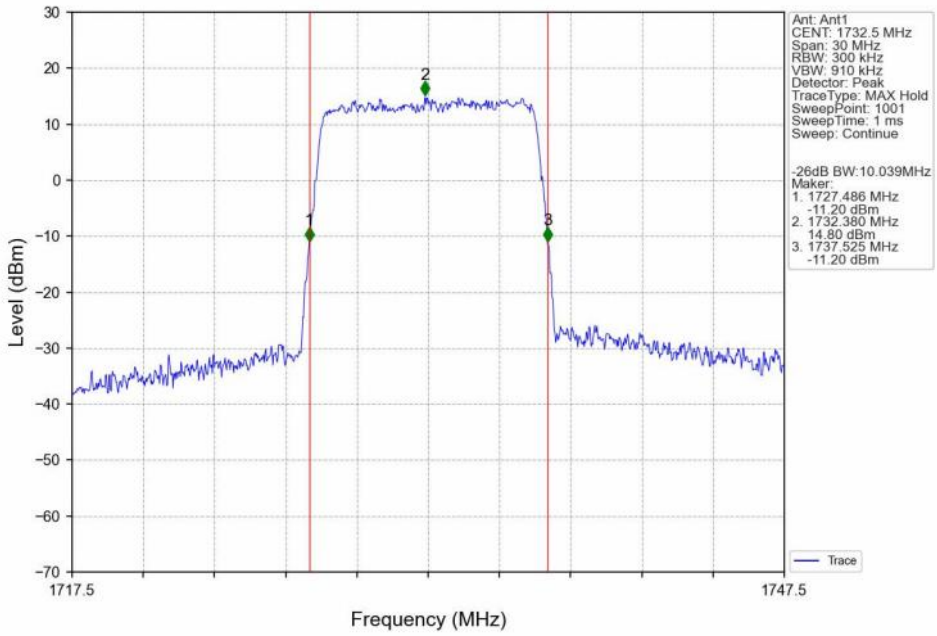
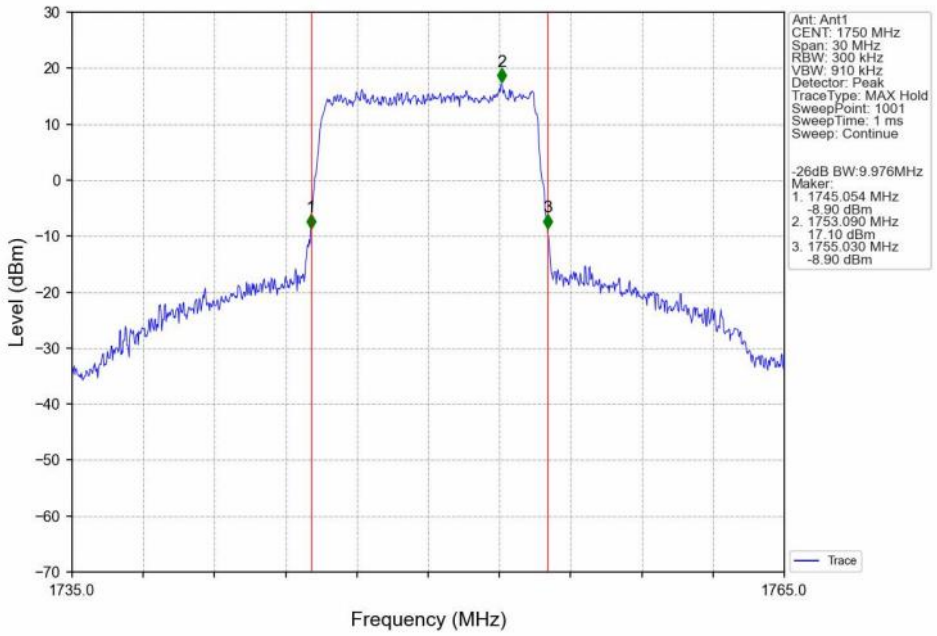
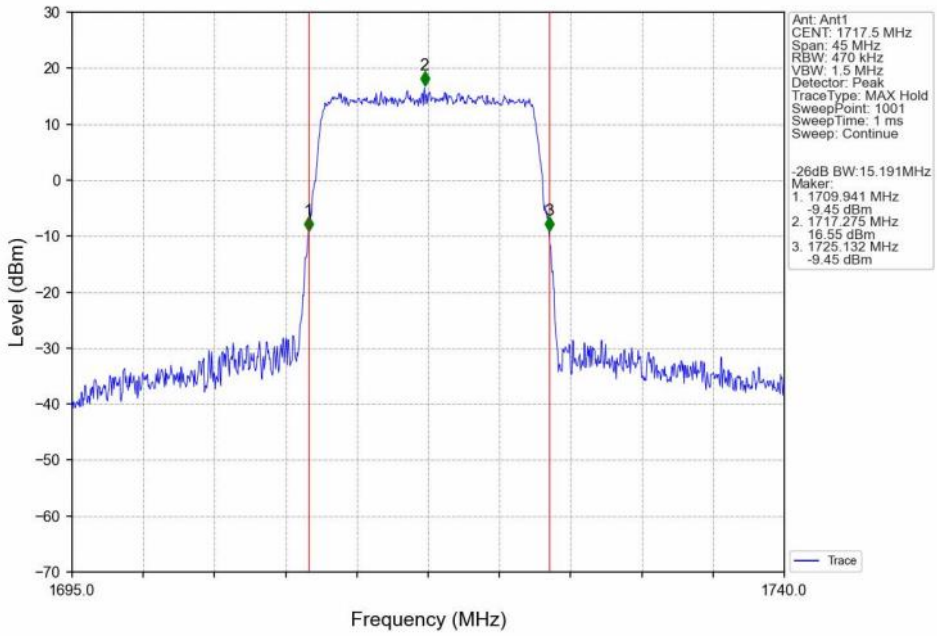
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



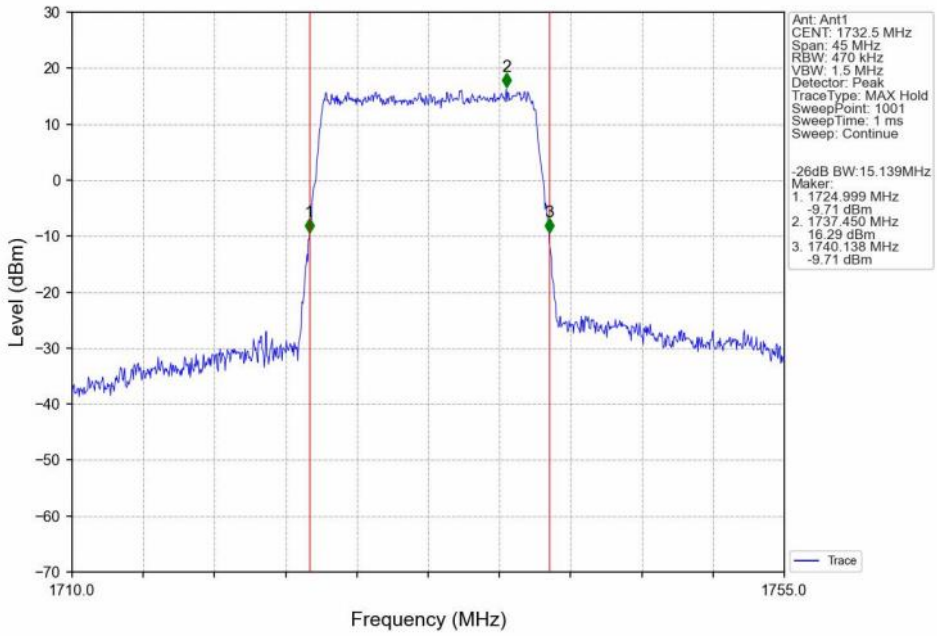
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



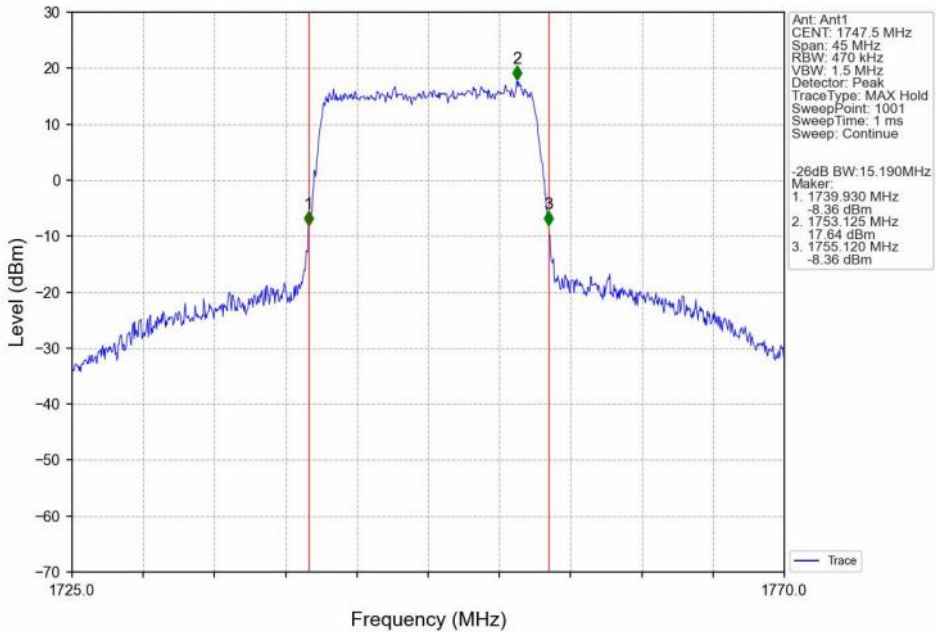
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



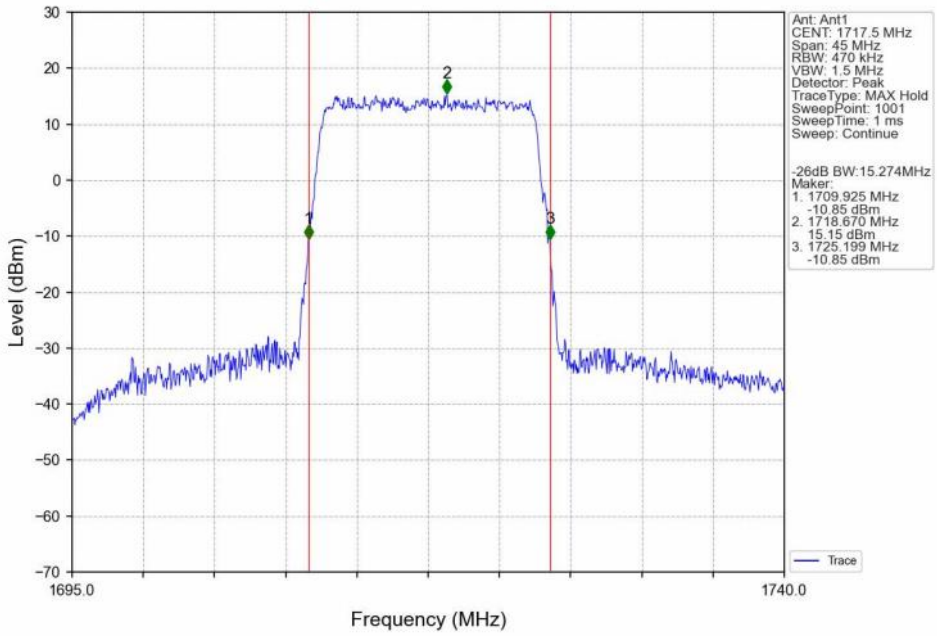
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



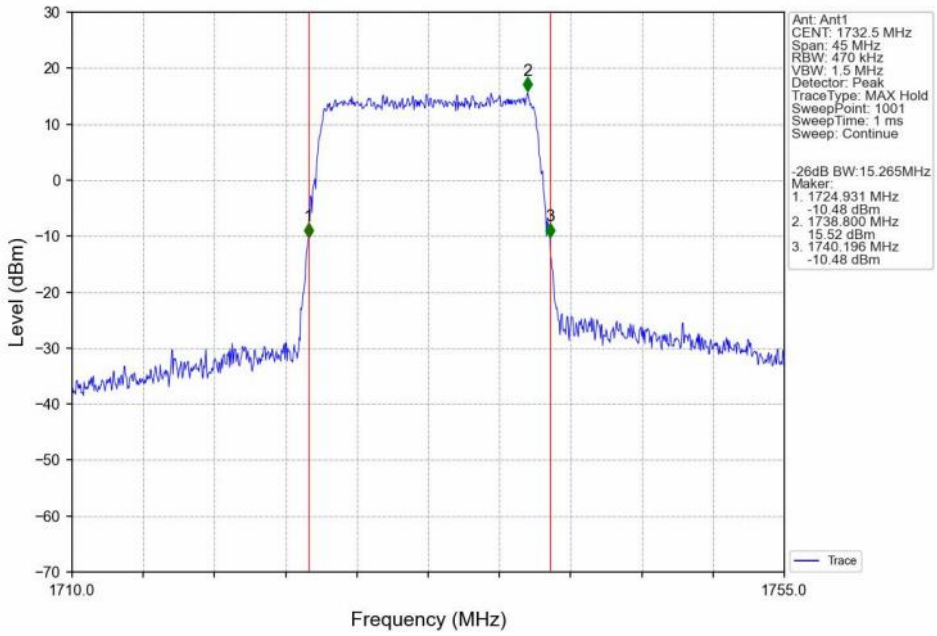
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



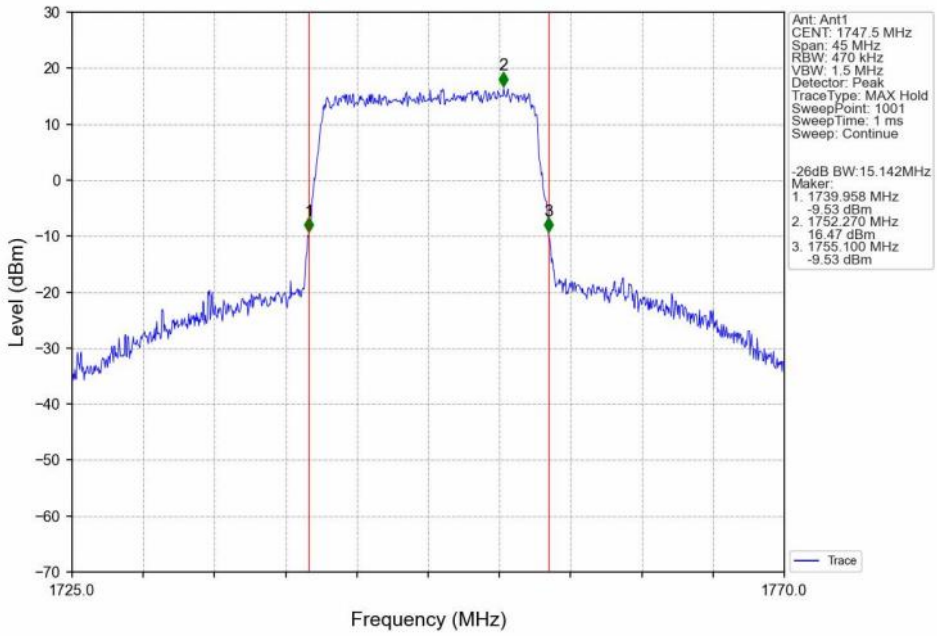
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



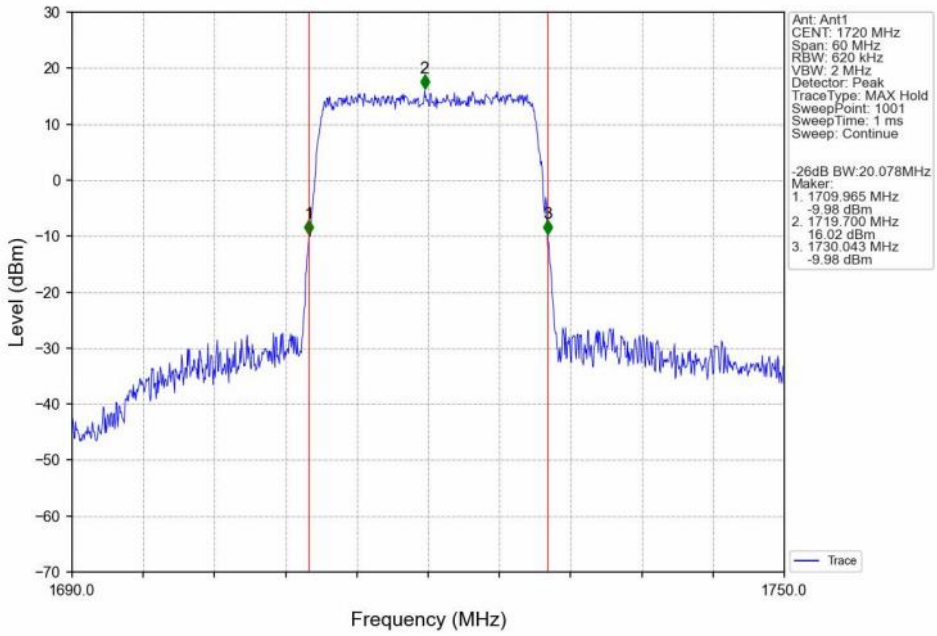
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



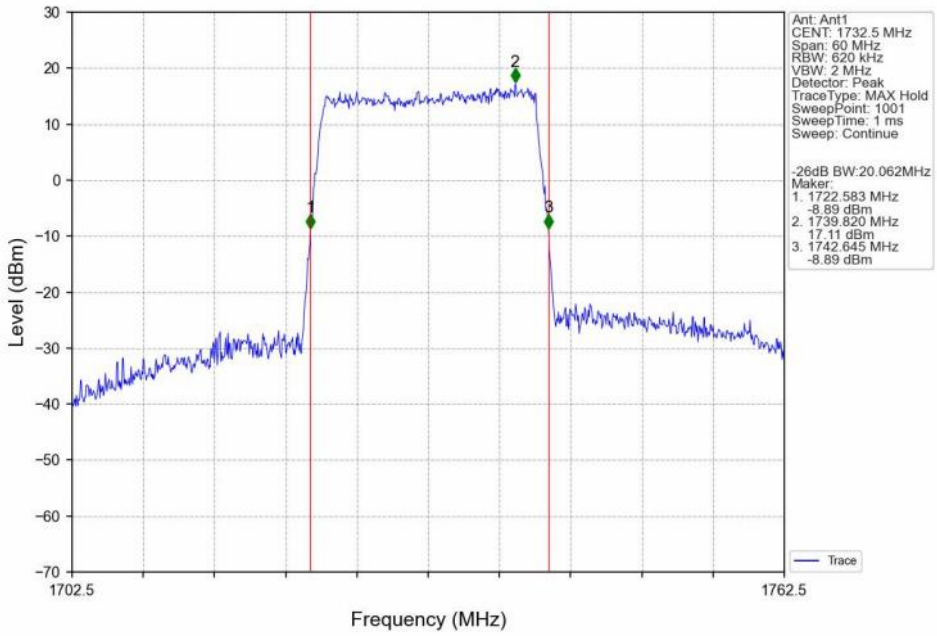
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



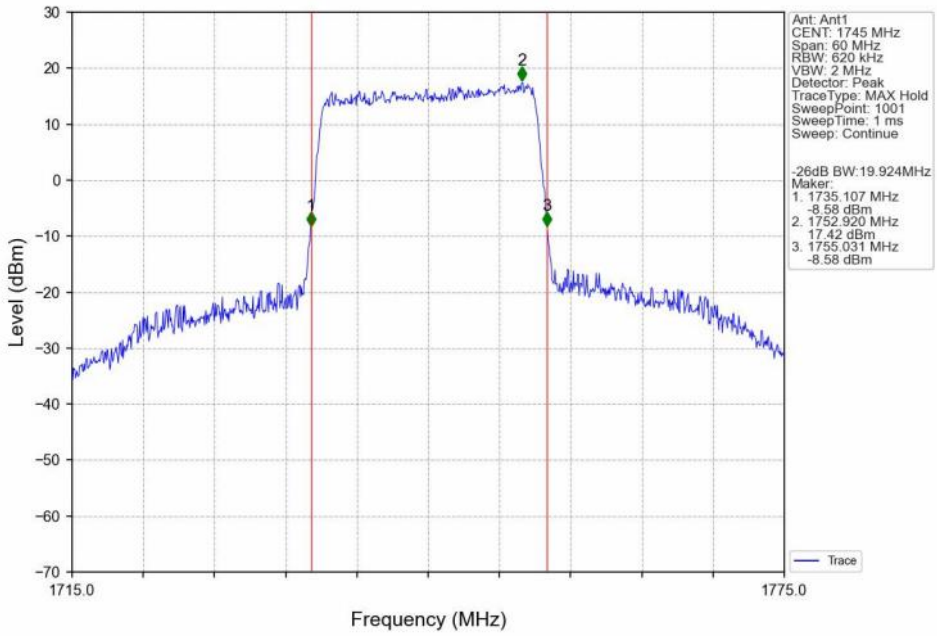
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



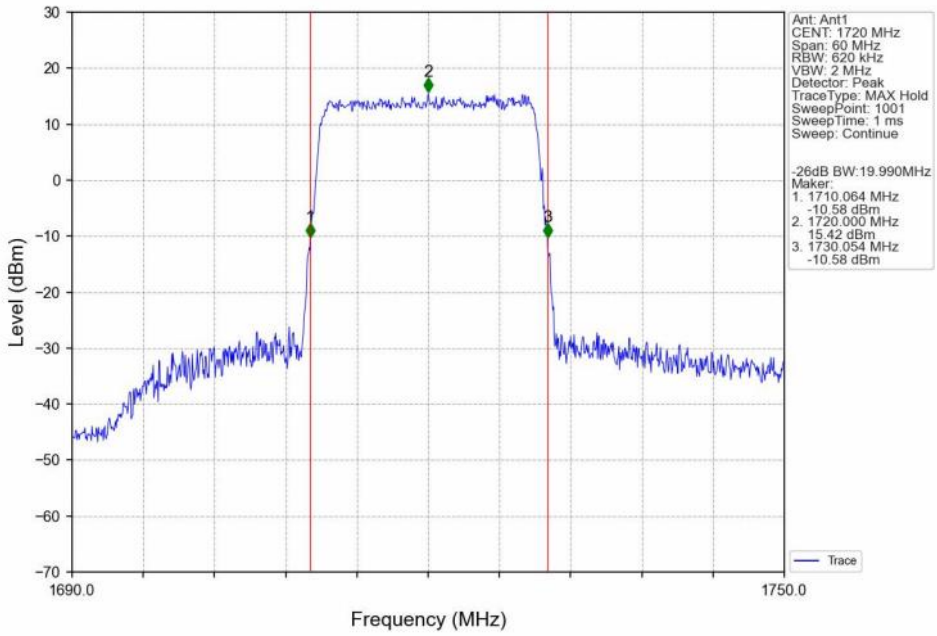
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



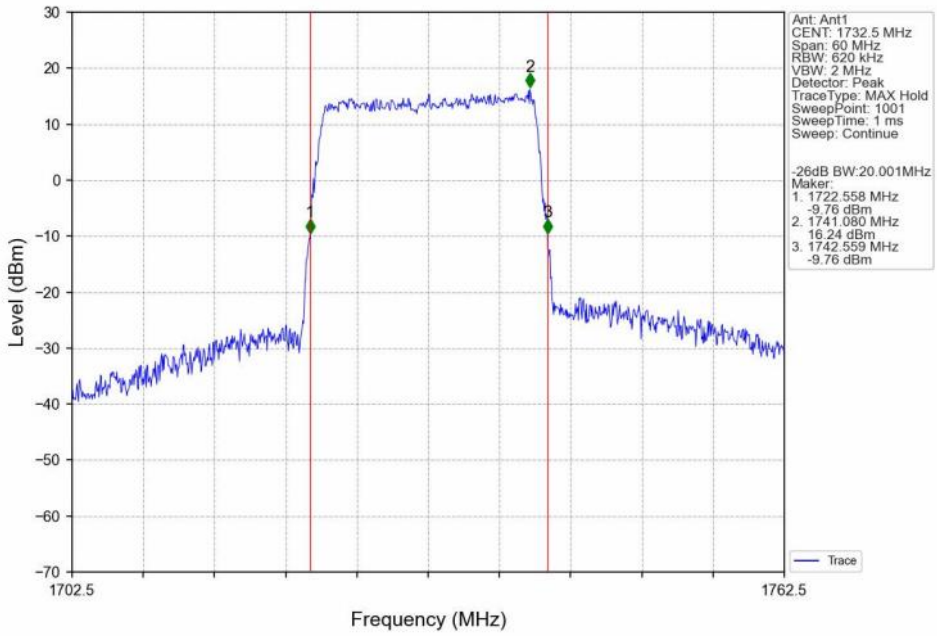
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



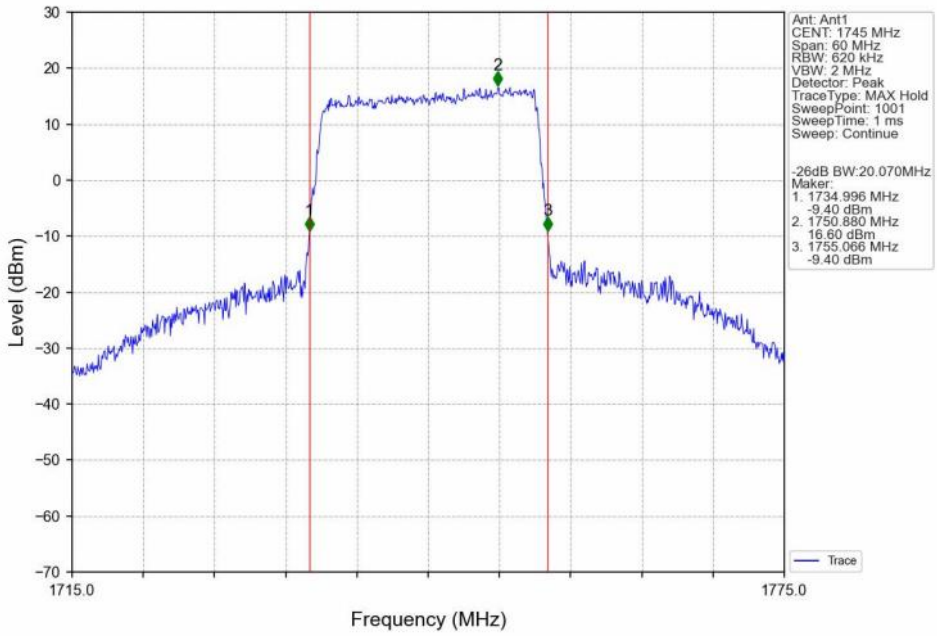
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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	5.40	<=13	Pass
	1732.5	6	0	5.63	<=13	Pass
	1754.3	6	0	4.86	<=13	Pass
16QAM	1710.7	6	0	6.00	<=13	Pass
	1732.5	6	0	6.37	<=13	Pass
	1754.3	6	0	5.52	<=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	5.44	<=13	Pass
	1732.5	15	0	5.59	<=13	Pass
	1753.5	15	0	4.92	<=13	Pass
16QAM	1711.5	15	0	6.12	<=13	Pass
	1732.5	15	0	6.43	<=13	Pass
	1753.5	15	0	5.67	<=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	5.52	<=13	Pass
	1732.5	25	0	5.69	<=13	Pass
	1752.5	25	0	5.11	<=13	Pass
16QAM	1712.5	25	0	6.29	<=13	Pass
	1732.5	25	0	6.40	<=13	Pass
	1752.5	25	0	5.77	<=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	5.64	<=13	Pass
	1732.5	50	0	5.69	<=13	Pass
	1750	50	0	5.08	<=13	Pass
16QAM	1715	50	0	6.40	<=13	Pass
	1732.5	50	0	6.45	<=13	Pass
	1750	50	0	5.67	<=13	Pass

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5.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.98	<=13	Pass
	1732.5	75	0	5.93	<=13	Pass
	1747.5	75	0	5.16	<=13	Pass
16QAM	1717.5	75	0	6.44	<=13	Pass
	1732.5	75	0	6.44	<=13	Pass
	1747.5	75	0	5.74	<=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	5.80	<=13	Pass
	1732.5	100	0	5.70	<=13	Pass
	1745	100	0	5.21	<=13	Pass
16QAM	1720	100	0	6.46	<=13	Pass
	1732.5	100	0	6.40	<=13	Pass
	1745	100	0	5.83	<=13	Pass

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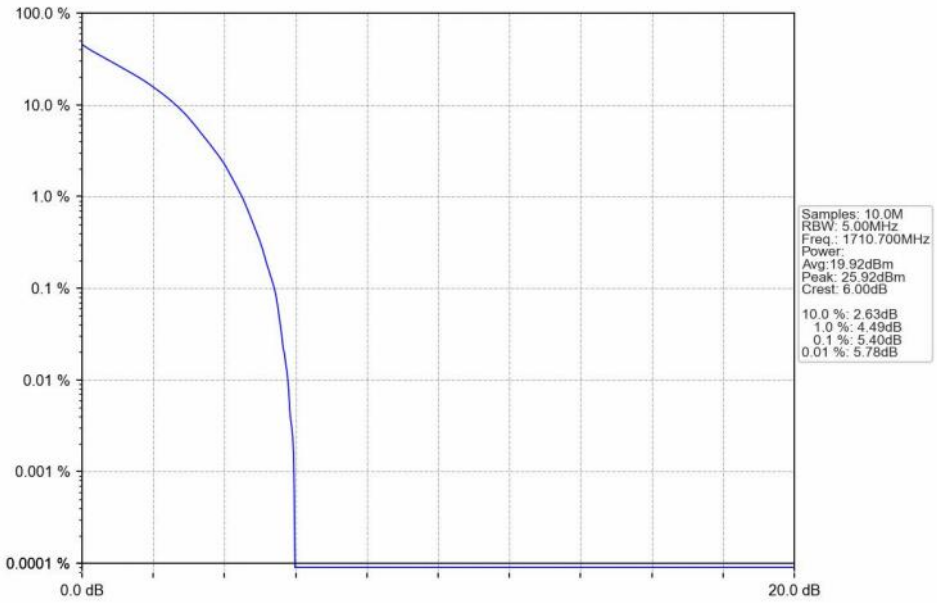
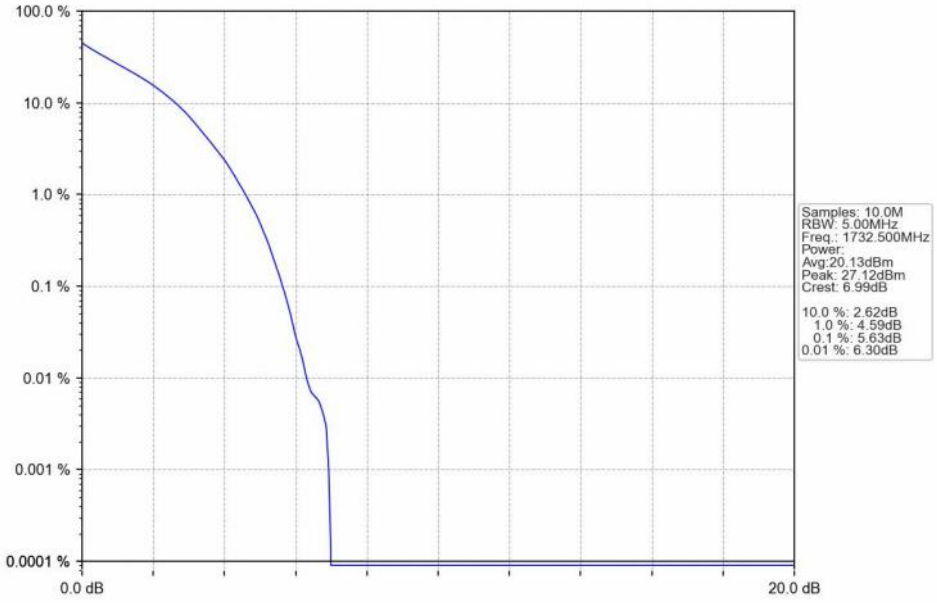
5.2 Test Graph

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



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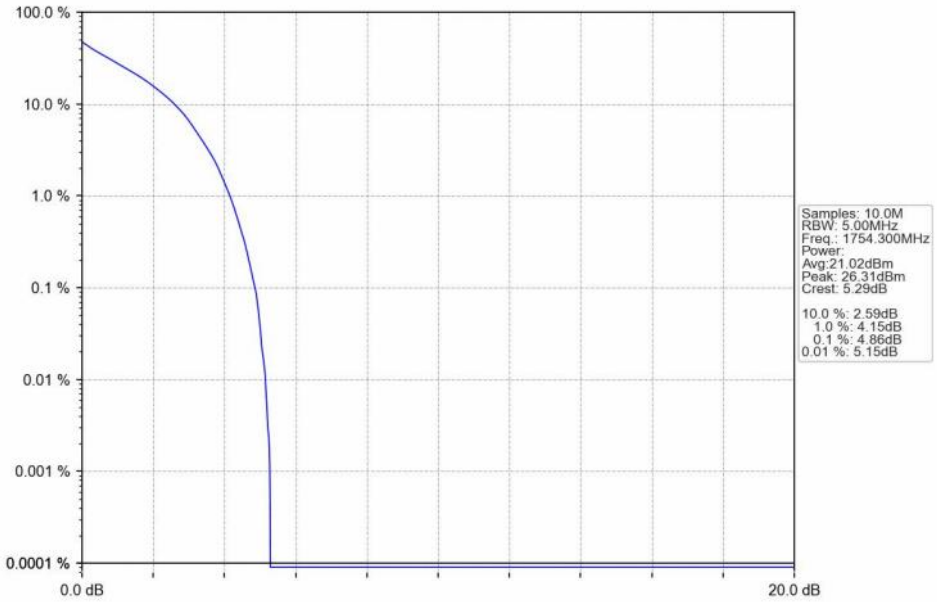
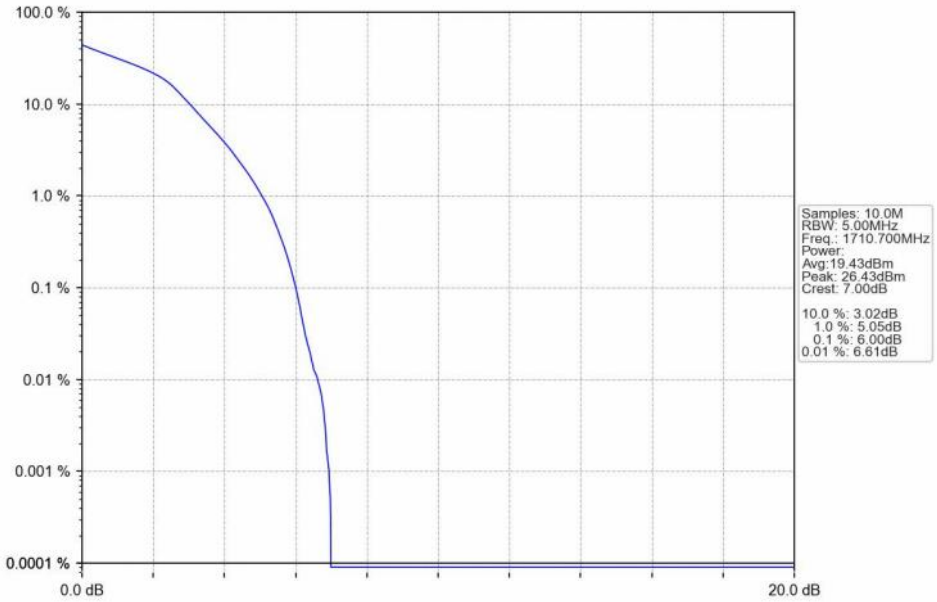
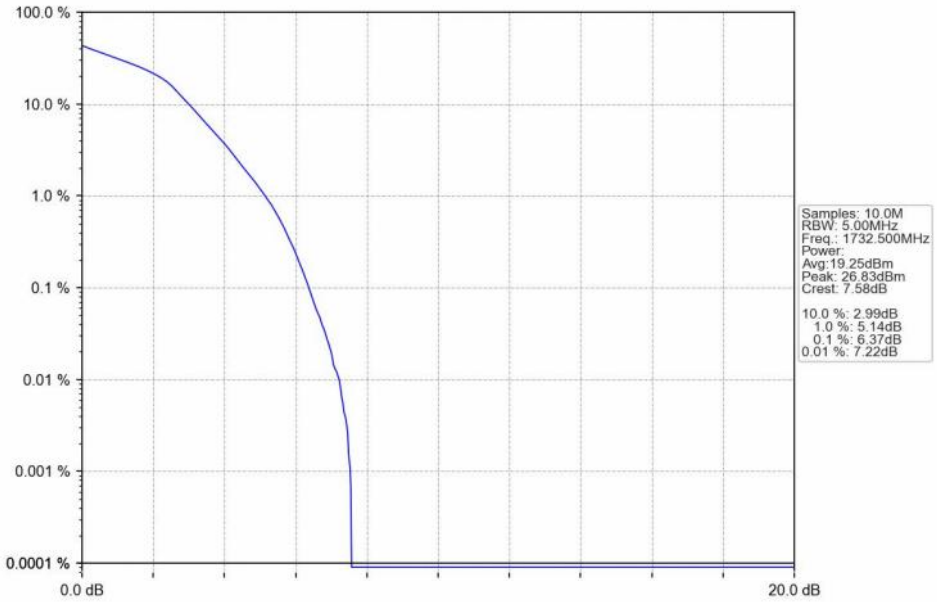
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



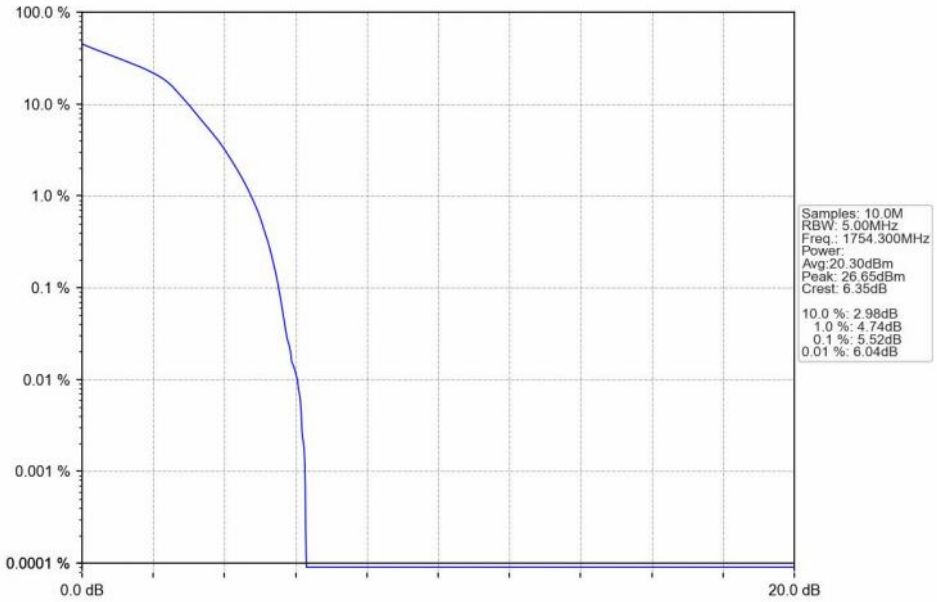
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV

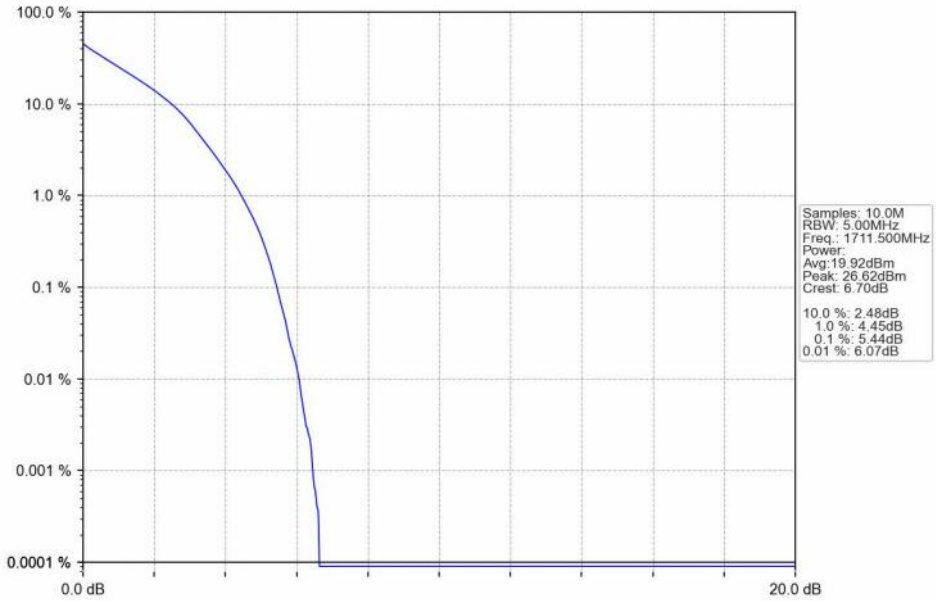


Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV

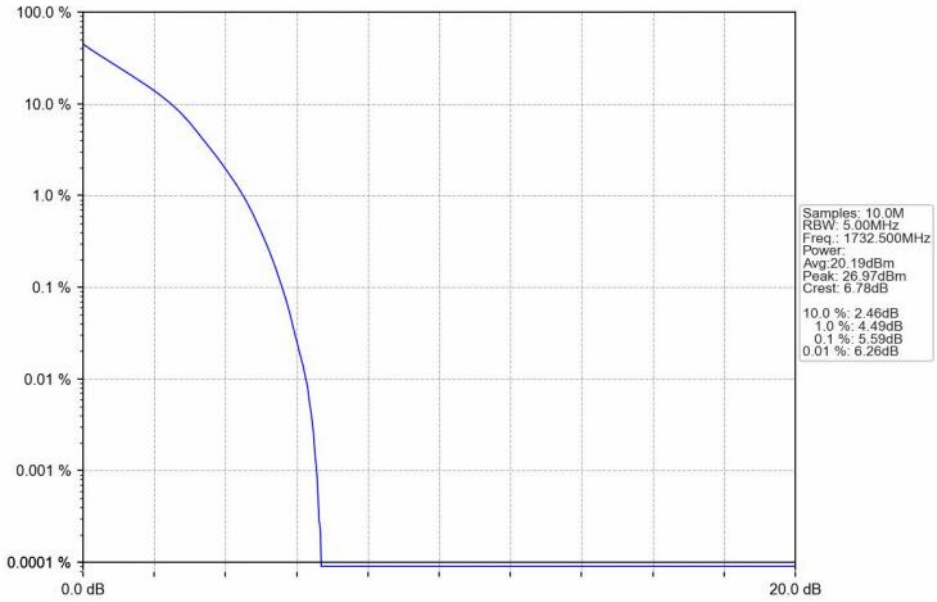


5.2.2 B4_3MHz

Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



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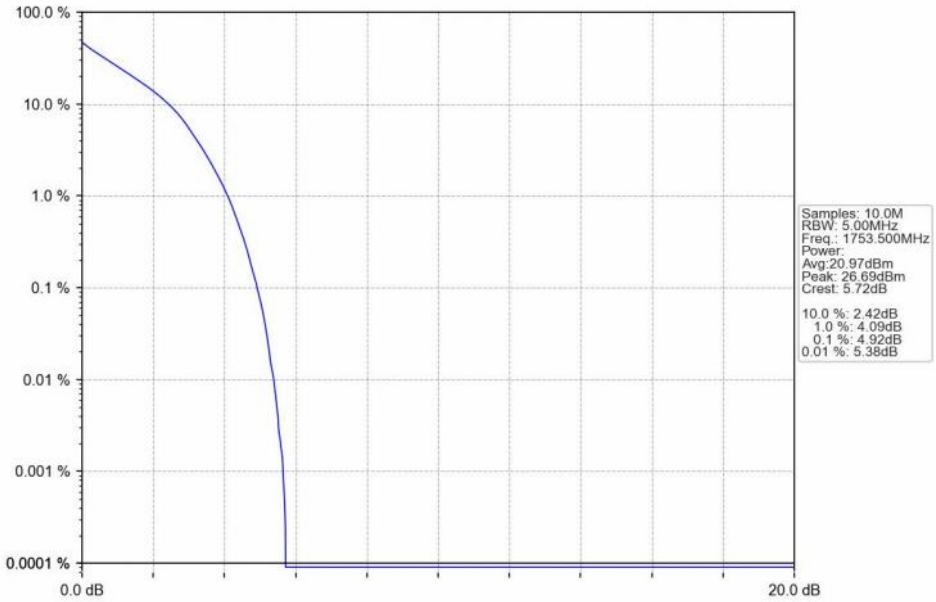
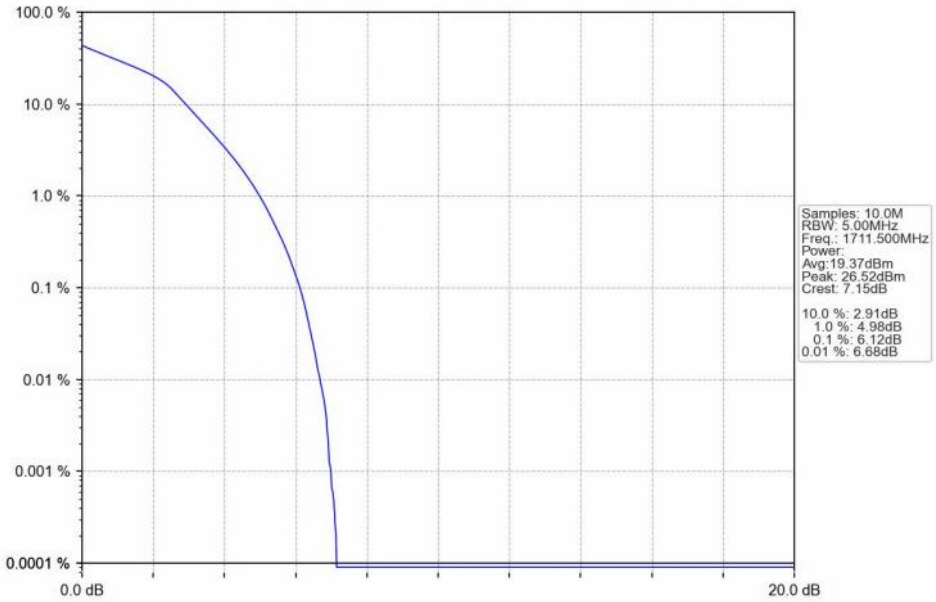
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



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