

Appendix - LTE 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 / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	19.25	-2.23	17.02	<=30	Pass
			2	19.35	-2.23	17.12	<=30	Pass
			5	19.20	-2.23	16.97	<=30	Pass
		3	0	18.81	-2.23	16.58	<=30	Pass
			2	18.89	-2.23	16.66	<=30	Pass
			3	18.86	-2.23	16.63	<=30	Pass
		6	0	17.78	-2.23	15.55	<=30	Pass
	1732.5	1	0	18.29	-2.23	16.06	<=30	Pass
			2	18.36	-2.23	16.13	<=30	Pass
			5	18.31	-2.23	16.08	<=30	Pass
		3	0	18.41	-2.23	16.18	<=30	Pass
			2	18.44	-2.23	16.21	<=30	Pass
			3	18.39	-2.23	16.16	<=30	Pass
		6	0	17.36	-2.23	15.13	<=30	Pass
	1754.3	1	0	18.81	-2.23	16.58	<=30	Pass
			2	18.91	-2.23	16.68	<=30	Pass
			5	18.81	-2.23	16.58	<=30	Pass
		3	0	18.95	-2.23	16.72	<=30	Pass
			2	18.96	-2.23	16.73	<=30	Pass
			3	18.94	-2.23	16.71	<=30	Pass
		6	0	17.89	-2.23	15.66	<=30	Pass
16QAM	1710.7	1	0	17.73	-2.23	15.50	<=30	Pass
			2	17.85	-2.23	15.62	<=30	Pass
			5	17.77	-2.23	15.54	<=30	Pass
		3	0	17.87	-2.23	15.64	<=30	Pass
			2	17.86	-2.23	15.63	<=30	Pass
			3	17.85	-2.23	15.62	<=30	Pass
		6	0	16.72	-2.23	14.49	<=30	Pass
	1732.5	1	0	17.49	-2.23	15.26	<=30	Pass
			2	17.55	-2.23	15.32	<=30	Pass
			5	17.45	-2.23	15.22	<=30	Pass
		3	0	17.36	-2.23	15.13	<=30	Pass
			2	17.39	-2.23	15.16	<=30	Pass
			3	17.38	-2.23	15.15	<=30	Pass
		6	0	16.38	-2.23	14.15	<=30	Pass
	1754.3	1	0	17.81	-2.23	15.58	<=30	Pass
			2	17.92	-2.23	15.69	<=30	Pass
			5	17.82	-2.23	15.59	<=30	Pass
		3	0	18.10	-2.23	15.87	<=30	Pass
			2	18.13	-2.23	15.90	<=30	Pass
			3	18.10	-2.23	15.87	<=30	Pass
		6	0	16.91	-2.23	14.68	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTN								
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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	19.16	-2.23	16.93	<=30	Pass
			7	19.28	-2.23	17.05	<=30	Pass
			14	18.63	-2.23	16.40	<=30	Pass
		8	0	17.64	-2.23	15.41	<=30	Pass
			4	17.68	-2.23	15.45	<=30	Pass
			7	17.63	-2.23	15.40	<=30	Pass
		15	0	17.63	-2.23	15.40	<=30	Pass
	1732.5	1	0	18.99	-2.23	16.76	<=30	Pass
			7	19.07	-2.23	16.84	<=30	Pass
			14	18.91	-2.23	16.68	<=30	Pass
		8	0	17.96	-2.23	15.73	<=30	Pass
			4	17.98	-2.23	15.75	<=30	Pass
			7	17.92	-2.23	15.69	<=30	Pass
		15	0	17.96	-2.23	15.73	<=30	Pass
	1753.5	1	0	17.96	-2.23	15.73	<=30	Pass
			7	18.08	-2.23	15.85	<=30	Pass
			14	17.92	-2.23	15.69	<=30	Pass
		8	0	16.95	-2.23	14.72	<=30	Pass
			4	16.98	-2.23	14.75	<=30	Pass
			7	16.92	-2.23	14.69	<=30	Pass
		15	0	16.94	-2.23	14.71	<=30	Pass
16QAM	1711.5	1	0	17.68	-2.23	15.45	<=30	Pass
			7	17.80	-2.23	15.57	<=30	Pass
			14	17.66	-2.23	15.43	<=30	Pass
		8	0	16.69	-2.23	14.46	<=30	Pass
			4	16.74	-2.23	14.51	<=30	Pass
			7	16.67	-2.23	14.44	<=30	Pass
		15	0	16.66	-2.23	14.43	<=30	Pass
	1732.5	1	0	18.13	-2.23	15.90	<=30	Pass
			7	18.25	-2.23	16.02	<=30	Pass
			14	18.10	-2.23	15.87	<=30	Pass
		8	0	16.94	-2.23	14.71	<=30	Pass
			4	16.96	-2.23	14.73	<=30	Pass
			7	16.91	-2.23	14.68	<=30	Pass
		15	0	16.90	-2.23	14.67	<=30	Pass
	1753.5	1	0	17.47	-2.23	15.24	<=30	Pass
			7	17.61	-2.23	15.38	<=30	Pass
			14	17.43	-2.23	15.20	<=30	Pass
		8	0	16.08	-2.23	13.85	<=30	Pass
			4	16.14	-2.23	13.91	<=30	Pass
			7	16.10	-2.23	13.87	<=30	Pass
		15	0	16.00	-2.23	13.77	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	18.66	-2.23	16.43	<=30	Pass
			13	18.76	-2.23	16.53	<=30	Pass
			24	18.63	-2.23	16.40	<=30	Pass
		12	0	17.69	-2.23	15.46	<=30	Pass
			6	17.79	-2.23	15.56	<=30	Pass
			13	17.73	-2.23	15.50	<=30	Pass
		25	0	17.73	-2.23	15.50	<=30	Pass
	1732.5	1	0	18.59	-2.23	16.36	<=30	Pass
			0	18.59	-2.23	16.36	<=30	Pass

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16QAM	1752.5	12	13	18.68	-2.23	16.45	<=30	Pass
			24	18.53	-2.23	16.30	<=30	Pass
			0	17.65	-2.23	15.42	<=30	Pass
			6	17.69	-2.23	15.46	<=30	Pass
		25	13	17.63	-2.23	15.40	<=30	Pass
			0	17.65	-2.23	15.42	<=30	Pass
			0	17.86	-2.23	15.63	<=30	Pass
			13	18.00	-2.23	15.77	<=30	Pass
		12	24	17.83	-2.23	15.60	<=30	Pass
			0	16.92	-2.23	14.69	<=30	Pass
			6	17.01	-2.23	14.78	<=30	Pass
			13	16.94	-2.23	14.71	<=30	Pass
	1712.5	1	25	16.94	-2.23	14.71	<=30	Pass
			0	17.74	-2.23	15.51	<=30	Pass
			13	17.86	-2.23	15.63	<=30	Pass
			24	17.72	-2.23	15.49	<=30	Pass
		12	0	16.68	-2.23	14.45	<=30	Pass
			6	16.75	-2.23	14.52	<=30	Pass
			13	16.67	-2.23	14.44	<=30	Pass
			25	16.75	-2.23	14.52	<=30	Pass
		1	0	17.89	-2.23	15.66	<=30	Pass
			13	17.94	-2.23	15.71	<=30	Pass
			24	17.79	-2.23	15.56	<=30	Pass
			0	16.68	-2.23	14.45	<=30	Pass
16QAM	1732.5	12	6	16.73	-2.23	14.50	<=30	Pass
			13	16.63	-2.23	14.40	<=30	Pass
			25	16.66	-2.23	14.43	<=30	Pass
		1	0	16.74	-2.23	14.51	<=30	Pass
			13	16.83	-2.23	14.60	<=30	Pass
			24	16.74	-2.23	14.51	<=30	Pass
		12	0	15.93	-2.23	13.70	<=30	Pass
			6	15.98	-2.23	13.75	<=30	Pass
			13	15.92	-2.23	13.69	<=30	Pass
			25	15.98	-2.23	13.75	<=30	Pass
	1752.5	1	0	16.74	-2.23	14.51	<=30	Pass
			13	16.83	-2.23	14.60	<=30	Pass
			24	16.74	-2.23	14.51	<=30	Pass
		12	0	15.93	-2.23	13.70	<=30	Pass
			6	15.98	-2.23	13.75	<=30	Pass
			13	15.92	-2.23	13.69	<=30	Pass
			25	15.98	-2.23	13.75	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTVN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1715	1	0	18.47	-2.23	16.24	<=30	Pass	
			25	18.67	-2.23	16.44	<=30	Pass	
			49	18.44	-2.23	16.21	<=30	Pass	
		25	0	17.48	-2.23	15.25	<=30	Pass	
			13	17.50	-2.23	15.27	<=30	Pass	
			25	17.46	-2.23	15.23	<=30	Pass	
		50	0	17.46	-2.23	15.23	<=30	Pass	
		1732.5	1	0	18.78	-2.23	16.55	<=30	Pass
				25	18.91	-2.23	16.68	<=30	Pass
	49			18.68	-2.23	16.45	<=30	Pass	
	25		0	17.84	-2.23	15.61	<=30	Pass	
			13	17.82	-2.23	15.59	<=30	Pass	
			25	17.77	-2.23	15.54	<=30	Pass	
	50		0	17.83	-2.23	15.60	<=30	Pass	
	1750		1	0	18.17	-2.23	15.94	<=30	Pass
				25	18.31	-2.23	16.08	<=30	Pass
		49		18.13	-2.23	15.90	<=30	Pass	
		25	0	17.24	-2.23	15.01	<=30	Pass	

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16QAM	1715	50	13	17.24	-2.23	15.01	<=30	Pass
			25	17.20	-2.23	14.97	<=30	Pass
			0	17.22	-2.23	14.99	<=30	Pass
		1	0	17.49	-2.23	15.26	<=30	Pass
			25	17.63	-2.23	15.40	<=30	Pass
			49	17.47	-2.23	15.24	<=30	Pass
		25	0	16.58	-2.23	14.35	<=30	Pass
			13	16.56	-2.23	14.33	<=30	Pass
			25	16.56	-2.23	14.33	<=30	Pass
		50	0	16.49	-2.23	14.26	<=30	Pass
	1732.5	1	0	17.98	-2.23	15.75	<=30	Pass
			25	18.10	-2.23	15.87	<=30	Pass
			49	17.84	-2.23	15.61	<=30	Pass
		25	0	16.87	-2.23	14.64	<=30	Pass
			13	16.87	-2.23	14.64	<=30	Pass
			25	16.83	-2.23	14.60	<=30	Pass
		50	0	16.84	-2.23	14.61	<=30	Pass
	1750	1	0	17.71	-2.23	15.48	<=30	Pass
			25	17.86	-2.23	15.63	<=30	Pass
			49	17.64	-2.23	15.41	<=30	Pass
		25	0	16.30	-2.23	14.07	<=30	Pass
			13	16.29	-2.23	14.06	<=30	Pass
			25	16.26	-2.23	14.03	<=30	Pass
		50	0	16.26	-2.23	14.03	<=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	18.81	-2.23	16.58	<=30	Pass
			38	18.88	-2.23	16.65	<=30	Pass
			74	18.71	-2.23	16.48	<=30	Pass
		36	0	17.95	-2.23	15.72	<=30	Pass
			18	17.95	-2.23	15.72	<=30	Pass
			39	17.88	-2.23	15.65	<=30	Pass
		75	0	17.90	-2.23	15.67	<=30	Pass
	1732.5	1	0	18.54	-2.23	16.31	<=30	Pass
			38	18.56	-2.23	16.33	<=30	Pass
			74	18.33	-2.23	16.10	<=30	Pass
		36	0	17.64	-2.23	15.41	<=30	Pass
			18	17.60	-2.23	15.37	<=30	Pass
			39	17.56	-2.23	15.33	<=30	Pass
		75	0	17.62	-2.23	15.39	<=30	Pass
	1747.5	1	0	18.15	-2.23	15.92	<=30	Pass
			38	18.20	-2.23	15.97	<=30	Pass
			74	18.03	-2.23	15.80	<=30	Pass
		36	0	17.26	-2.23	15.03	<=30	Pass
			18	17.24	-2.23	15.01	<=30	Pass
			39	17.20	-2.23	14.97	<=30	Pass
		75	0	17.27	-2.23	15.04	<=30	Pass
16QAM	1717.5	1	0	18.14	-2.23	15.91	<=30	Pass
			38	18.22	-2.23	15.99	<=30	Pass
			74	18.09	-2.23	15.86	<=30	Pass
		36	0	16.88	-2.23	14.65	<=30	Pass
			18	16.88	-2.23	14.65	<=30	Pass
			39	16.83	-2.23	14.60	<=30	Pass
		75	0	16.87	-2.23	14.64	<=30	Pass

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	1732.5	1	0	17.72	-2.23	15.49	<=30	Pass
			38	17.73	-2.23	15.50	<=30	Pass
			74	17.53	-2.23	15.30	<=30	Pass
		36	0	16.62	-2.23	14.39	<=30	Pass
			18	16.60	-2.23	14.37	<=30	Pass
			39	16.55	-2.23	14.32	<=30	Pass
		75	0	16.59	-2.23	14.36	<=30	Pass
	1747.5	1	0	17.68	-2.23	15.45	<=30	Pass
			38	17.71	-2.23	15.48	<=30	Pass
			74	17.55	-2.23	15.32	<=30	Pass
		36	0	16.26	-2.23	14.03	<=30	Pass
			18	16.23	-2.23	14.00	<=30	Pass
			39	16.18	-2.23	13.95	<=30	Pass
		75	0	16.23	-2.23	14.00	<=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	18.53	-2.23	16.30	<=30	Pass
			50	18.92	-2.23	16.69	<=30	Pass
			99	18.41	-2.23	16.18	<=30	Pass
		50	0	17.74	-2.23	15.51	<=30	Pass
			25	17.77	-2.23	15.54	<=30	Pass
			50	17.67	-2.23	15.44	<=30	Pass
		100	0	17.72	-2.23	15.49	<=30	Pass
	1732.5	1	0	18.62	-2.23	16.39	<=30	Pass
			50	18.87	-2.23	16.64	<=30	Pass
			99	18.40	-2.23	16.17	<=30	Pass
		50	0	17.77	-2.23	15.54	<=30	Pass
			25	17.75	-2.23	15.52	<=30	Pass
			50	17.69	-2.23	15.46	<=30	Pass
		100	0	17.75	-2.23	15.52	<=30	Pass
	1745	1	0	18.09	-2.23	15.86	<=30	Pass
			50	18.35	-2.23	16.12	<=30	Pass
			99	17.88	-2.23	15.65	<=30	Pass
		50	0	17.18	-2.23	14.95	<=30	Pass
			25	17.19	-2.23	14.96	<=30	Pass
			50	17.14	-2.23	14.91	<=30	Pass
		100	0	17.16	-2.23	14.93	<=30	Pass
16QAM	1720	1	0	18.11	-2.23	15.88	<=30	Pass
			50	18.46	-2.23	16.23	<=30	Pass
			99	17.96	-2.23	15.73	<=30	Pass
		50	0	16.77	-2.23	14.54	<=30	Pass
			25	16.78	-2.23	14.55	<=30	Pass
			50	16.66	-2.23	14.43	<=30	Pass
		100	0	16.75	-2.23	14.52	<=30	Pass
	1732.5	1	0	17.81	-2.23	15.58	<=30	Pass
			50	18.09	-2.23	15.86	<=30	Pass
			99	17.56	-2.23	15.33	<=30	Pass
		50	0	16.78	-2.23	14.55	<=30	Pass
			25	16.80	-2.23	14.57	<=30	Pass
			50	16.70	-2.23	14.47	<=30	Pass
		100	0	16.73	-2.23	14.50	<=30	Pass
	1745	1	0	17.38	-2.23	15.15	<=30	Pass
			50	17.60	-2.23	15.37	<=30	Pass
			99	17.16	-2.23	14.93	<=30	Pass

		50	0	16.16	-2.23	13.93	<=30	Pass
			25	16.23	-2.23	14.00	<=30	Pass
			50	16.15	-2.23	13.92	<=30	Pass
		100	0	16.18	-2.23	13.95	<=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	-2.804	-0.0016	-2.5 to 2.5	Pass
					3.85	-7.567	-0.0044	-2.5 to 2.5	Pass
					4.43	-6.137	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-5.221	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-2.332	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-34.904	-0.0204	-2.5 to 2.5	Pass
				0	3.85	-4.578	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-6.723	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-5.164	-0.0030	-2.5 to 2.5	Pass
				40	3.85	-8.039	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-5.436	-0.0032	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-2.890	-0.0017	-2.5 to 2.5	Pass
					3.85	-3.090	-0.0018	-2.5 to 2.5	Pass
					4.43	-1.230	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-7.596	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-10.099	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-7.052	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-3.605	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-5.507	-0.0032	-2.5 to 2.5	Pass
				30	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-1.745	-0.0010	-2.5 to 2.5	Pass
				50	3.85	3.533	0.0020	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-6.237	-0.0036	-2.5 to 2.5	Pass
					3.85	-5.994	-0.0034	-2.5 to 2.5	Pass
					4.43	-7.682	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-7.524	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-6.094	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-9.971	-0.0057	-2.5 to 2.5	Pass
				0	3.85	0.715	0.0004	-2.5 to 2.5	Pass
				10	3.85	-7.725	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-2.861	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-4.921	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-6.108	-0.0035	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-4.621	-0.0027	-2.5 to 2.5	Pass
					3.85	-3.519	-0.0021	-2.5 to 2.5	Pass
					4.43	-4.649	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-3.262	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	1.531	0.0009	-2.5 to 2.5	Pass
				-10	3.85	-3.376	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-2.532	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-6.123	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass

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Version: 1/00

	1732.5	6	0	50	3.85	-3.619	-0.0021	-2.5 to 2.5	Pass
				20	3.27	-1.388	-0.0008	-2.5 to 2.5	Pass
					3.85	-1.431	-0.0008	-2.5 to 2.5	Pass
					4.43	-3.061	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-3.204	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	4.435	0.0026	-2.5 to 2.5	Pass
				-10	3.85	-6.280	-0.0036	-2.5 to 2.5	Pass
				0	3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
				10	3.85	1.717	0.0010	-2.5 to 2.5	Pass
				30	3.85	-2.990	-0.0017	-2.5 to 2.5	Pass
	1754.3	6	0	40	3.85	-10.057	-0.0058	-2.5 to 2.5	Pass
				50	3.85	-2.103	-0.0012	-2.5 to 2.5	Pass
				20	3.27	-9.727	-0.0055	-2.5 to 2.5	Pass
					3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
					4.43	-4.606	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-6.065	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-11.015	-0.0063	-2.5 to 2.5	Pass
				-10	3.85	-4.621	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-8.354	-0.0048	-2.5 to 2.5	Pass
				10	3.85	-2.489	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-8.912	-0.0051	-2.5 to 2.5	Pass
				40	3.85	-7.467	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-6.366	-0.0036	-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	-7.796	-0.0046	-2.5 to 2.5	Pass
					3.85	-2.546	-0.0015	-2.5 to 2.5	Pass
					4.43	-2.832	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-7.081	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-7.396	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-3.877	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-3.819	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-8.769	-0.0051	-2.5 to 2.5	Pass
				30	3.85	-6.051	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-4.792	-0.0028	-2.5 to 2.5	Pass
	1732.5	15	0	50	3.85	-6.895	-0.0040	-2.5 to 2.5	Pass
				20	3.27	0.029	0.0000	-2.5 to 2.5	Pass
					3.85	-2.947	-0.0017	-2.5 to 2.5	Pass
					4.43	-2.203	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-6.666	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-5.579	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	-4.721	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-3.591	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-1.330	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-5.622	-0.0032	-2.5 to 2.5	Pass
	1753.5	15	0	40	3.85	-5.565	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				20	3.27	-8.726	-0.0050	-2.5 to 2.5	Pass
					3.85	-11.630	-0.0066	-2.5 to 2.5	Pass
					4.43	-8.998	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-9.012	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-7.067	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-7.324	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-4.091	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-2.890	-0.0016	-2.5 to 2.5	Pass

16QAM	1711.5	15	0	30	3.85	-6.294	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-10.543	-0.0060	-2.5 to 2.5	Pass
				50	3.85	-12.302	-0.0070	-2.5 to 2.5	Pass
				20	3.27	-4.106	-0.0024	-2.5 to 2.5	Pass
					3.85	1.044	0.0006	-2.5 to 2.5	Pass
					4.43	-0.043	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-2.060	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-1.674	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	1.874	0.0011	-2.5 to 2.5	Pass
	1732.5	15	0	0	3.85	0.644	0.0004	-2.5 to 2.5	Pass
				10	3.85	3.891	0.0023	-2.5 to 2.5	Pass
				30	3.85	-4.263	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-7.925	-0.0046	-2.5 to 2.5	Pass
				20	3.27	-1.116	-0.0006	-2.5 to 2.5	Pass
					3.85	-6.924	-0.0040	-2.5 to 2.5	Pass
					4.43	-5.136	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-3.905	-0.0023	-2.5 to 2.5	Pass
	1753.5	15	0	-20	3.85	-4.177	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				0	3.85	-2.403	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-5.679	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-8.669	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-6.280	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-7.038	-0.0041	-2.5 to 2.5	Pass
				20	3.27	-13.647	-0.0078	-2.5 to 2.5	Pass
					3.85	-8.097	-0.0046	-2.5 to 2.5	Pass
					4.43	-4.005	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-4.249	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-8.783	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-1.817	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-10.028	-0.0057	-2.5 to 2.5	Pass
				10	3.85	-9.513	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-7.825	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-4.177	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-5.836	-0.0033	-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	-2.804	-0.0016	-2.5 to 2.5	Pass
					3.85	-4.520	-0.0026	-2.5 to 2.5	Pass
					4.43	-5.307	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-4.592	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-3.405	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-6.294	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-6.580	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-6.995	-0.0041	-2.5 to 2.5	Pass
	40	3.85	-4.478	-0.0026	-2.5 to 2.5	Pass			
	50	3.85	-6.680	-0.0039	-2.5 to 2.5	Pass			
	1732.5	25	0	20	3.27	-2.503	-0.0014	-2.5 to 2.5	Pass
					3.85	-8.397	-0.0048	-2.5 to 2.5	Pass
					4.43	0.386	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.429	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-3.891	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-5.608	-0.0032	-2.5 to 2.5	Pass

				0	3.85	-2.418	-0.0014	-2.5 to 2.5	Pass
				10	3.85	1.903	0.0011	-2.5 to 2.5	Pass
				30	3.85	-4.048	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-1.373	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-4.535	-0.0026	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-6.795	-0.0039	-2.5 to 2.5	Pass
					3.85	-5.708	-0.0033	-2.5 to 2.5	Pass
					4.43	-4.048	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-4.106	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-7.010	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-9.170	-0.0052	-2.5 to 2.5	Pass
				10	3.85	-7.825	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-11.673	-0.0067	-2.5 to 2.5	Pass
				40	3.85	-9.642	-0.0055	-2.5 to 2.5	Pass
				50	3.85	-4.921	-0.0028	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-7.310	-0.0043	-2.5 to 2.5	Pass
					3.85	-2.346	-0.0014	-2.5 to 2.5	Pass
					4.43	-1.044	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-4.778	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-2.275	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-5.507	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-8.326	-0.0049	-2.5 to 2.5	Pass
				10	3.85	-7.796	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-7.410	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-5.279	-0.0031	-2.5 to 2.5	Pass
				50	3.85	2.174	0.0013	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-1.960	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
					4.43	-5.550	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-8.368	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-4.678	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-9.842	-0.0057	-2.5 to 2.5	Pass
				0	3.85	-5.021	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-3.505	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-10.386	-0.0060	-2.5 to 2.5	Pass
				40	3.85	-7.682	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-6.437	-0.0037	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-6.409	-0.0037	-2.5 to 2.5	Pass
					3.85	-13.733	-0.0078	-2.5 to 2.5	Pass
					4.43	-8.168	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-11.029	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-7.524	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-9.270	-0.0053	-2.5 to 2.5	Pass
				0	3.85	-1.817	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-9.255	-0.0053	-2.5 to 2.5	Pass
				30	3.85	-2.561	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-5.221	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-9.313	-0.0053	-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	-4.878	-0.0028	-2.5 to 2.5	Pass
					3.85	-6.137	-0.0036	-2.5 to 2.5	Pass
					4.43	-4.063	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-5.207	-0.0030	-2.5 to 2.5	Pass

				-20	3.85	-4.721	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-6.094	-0.0036	-2.5 to 2.5	Pass
				0	3.85	-6.766	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-5.293	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-7.482	-0.0044	-2.5 to 2.5	Pass
				40	3.85	-11.573	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-6.309	-0.0037	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-4.091	-0.0024	-2.5 to 2.5	Pass
					3.85	-2.174	-0.0013	-2.5 to 2.5	Pass
					4.43	-6.480	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-4.849	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-4.821	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-4.106	-0.0024	-2.5 to 2.5	Pass
				0	3.85	-1.903	-0.0011	-2.5 to 2.5	Pass
				10	3.85	3.276	0.0019	-2.5 to 2.5	Pass
				30	3.85	-3.862	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-3.662	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-1.774	-0.0010	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-3.991	-0.0023	-2.5 to 2.5	Pass
					3.85	-7.453	-0.0043	-2.5 to 2.5	Pass
					4.43	-2.446	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-8.554	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-5.965	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-7.238	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-9.241	-0.0053	-2.5 to 2.5	Pass
				10	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-5.007	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-4.563	-0.0026	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-8.039	-0.0047	-2.5 to 2.5	Pass
					3.85	-4.807	-0.0028	-2.5 to 2.5	Pass
					4.43	-7.539	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-6.266	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-4.807	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-7.195	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-5.822	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-6.266	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-8.211	-0.0048	-2.5 to 2.5	Pass
				40	3.85	-6.552	-0.0038	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	1.531	0.0009	-2.5 to 2.5	Pass
					3.85	-1.688	-0.0010	-2.5 to 2.5	Pass
					4.43	0.014	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-2.046	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-4.163	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-3.247	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-3.662	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-2.060	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-2.475	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-6.680	-0.0038	-2.5 to 2.5	Pass
					3.85	-5.665	-0.0032	-2.5 to 2.5	Pass
					4.43	-6.022	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-5.164	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-6.809	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-6.008	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-5.622	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-6.337	-0.0036	-2.5 to 2.5	Pass

				30	3.85	-6.380	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-4.177	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-5.608	-0.0032	-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	-4.692	-0.0027	-2.5 to 2.5	Pass		
					3.85	-4.692	-0.0027	-2.5 to 2.5	Pass		
					4.43	-4.363	-0.0025	-2.5 to 2.5	Pass		
				-30	3.85	-6.695	-0.0039	-2.5 to 2.5	Pass		
				-20	3.85	-6.080	-0.0035	-2.5 to 2.5	Pass		
				-10	3.85	-5.078	-0.0030	-2.5 to 2.5	Pass		
				0	3.85	-5.593	-0.0033	-2.5 to 2.5	Pass		
				10	3.85	-5.021	-0.0029	-2.5 to 2.5	Pass		
				30	3.85	-5.465	-0.0032	-2.5 to 2.5	Pass		
				40	3.85	-9.699	-0.0056	-2.5 to 2.5	Pass		
	50	3.85	-9.212	-0.0054	-2.5 to 2.5	Pass					
	1732.5	75	0	20	3.27	-3.977	-0.0023	-2.5 to 2.5	Pass		
					3.85	-4.134	-0.0024	-2.5 to 2.5	Pass		
					4.43	-4.349	-0.0025	-2.5 to 2.5	Pass		
				-30	3.85	-5.121	-0.0030	-2.5 to 2.5	Pass		
				-20	3.85	-5.250	-0.0030	-2.5 to 2.5	Pass		
				-10	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass		
				0	3.85	-3.519	-0.0020	-2.5 to 2.5	Pass		
				10	3.85	-4.778	-0.0028	-2.5 to 2.5	Pass		
				30	3.85	-7.854	-0.0045	-2.5 to 2.5	Pass		
				40	3.85	-9.327	-0.0054	-2.5 to 2.5	Pass		
	50	3.85	-7.396	-0.0043	-2.5 to 2.5	Pass					
	1747.5	75	0	20	3.27	-4.091	-0.0023	-2.5 to 2.5	Pass		
					3.85	-5.994	-0.0034	-2.5 to 2.5	Pass		
					4.43	-4.406	-0.0025	-2.5 to 2.5	Pass		
				-30	3.85	-1.945	-0.0011	-2.5 to 2.5	Pass		
				-20	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass		
				-10	3.85	-3.633	-0.0021	-2.5 to 2.5	Pass		
				0	3.85	-3.004	-0.0017	-2.5 to 2.5	Pass		
				10	3.85	-6.866	-0.0039	-2.5 to 2.5	Pass		
				30	3.85	-4.349	-0.0025	-2.5 to 2.5	Pass		
40				3.85	-2.475	-0.0014	-2.5 to 2.5	Pass			
50	3.85	-5.164	-0.0030	-2.5 to 2.5	Pass						
16QAM	1717.5	75	0	20	3.27	-6.638	-0.0039	-2.5 to 2.5	Pass		
					3.85	-5.937	-0.0035	-2.5 to 2.5	Pass		
					4.43	-8.225	-0.0048	-2.5 to 2.5	Pass		
				-30	3.85	-6.895	-0.0040	-2.5 to 2.5	Pass		
				-20	3.85	-7.524	-0.0044	-2.5 to 2.5	Pass		
				-10	3.85	-8.054	-0.0047	-2.5 to 2.5	Pass		
				0	3.85	-8.054	-0.0047	-2.5 to 2.5	Pass		
				10	3.85	-7.925	-0.0046	-2.5 to 2.5	Pass		
				30	3.85	-7.124	-0.0041	-2.5 to 2.5	Pass		
				40	3.85	-5.708	-0.0033	-2.5 to 2.5	Pass		
	50	3.85	-5.035	-0.0029	-2.5 to 2.5	Pass					
	1732.5	75	0	20	3.27	-3.061	-0.0018	-2.5 to 2.5	Pass		
					3.85	-2.890	-0.0017	-2.5 to 2.5	Pass		
					4.43	-4.692	-0.0027	-2.5 to 2.5	Pass		
				-30	3.85	-4.578	-0.0026	-2.5 to 2.5	Pass		
				-20	3.85	-6.366	-0.0037	-2.5 to 2.5	Pass		
				-10	3.85	-1.316	-0.0008	-2.5 to 2.5	Pass		

				0	3.85	-6.580	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-7.095	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-7.281	-0.0042	-2.5 to 2.5	Pass
				40	3.85	-7.839	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-8.025	-0.0046	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-5.493	-0.0031	-2.5 to 2.5	Pass
					3.85	-6.123	-0.0035	-2.5 to 2.5	Pass
					4.43	-4.406	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-6.151	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-5.250	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-6.580	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-4.864	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-10.042	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-3.376	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-5.579	-0.0032	-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	-6.423	-0.0037	-2.5 to 2.5	Pass
					3.85	-6.223	-0.0036	-2.5 to 2.5	Pass
					4.43	-6.566	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-4.678	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-4.206	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-7.024	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-3.004	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-6.423	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-6.423	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-4.349	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-6.223	-0.0036	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-3.633	-0.0021	-2.5 to 2.5	Pass
					3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
					4.43	-6.466	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-7.310	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	-5.436	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-4.263	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-5.579	-0.0032	-2.5 to 2.5	Pass
				30	3.85	-8.211	-0.0047	-2.5 to 2.5	Pass
				40	3.85	-7.138	-0.0041	-2.5 to 2.5	Pass
				50	3.85	-6.151	-0.0036	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-2.317	-0.0013	-2.5 to 2.5	Pass
					3.85	-3.448	-0.0020	-2.5 to 2.5	Pass
					4.43	-2.861	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-1.731	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-2.589	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-3.061	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-4.921	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-2.646	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-4.435	-0.0026	-2.5 to 2.5	Pass
					3.85	-5.107	-0.0030	-2.5 to 2.5	Pass
					4.43	-4.563	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-8.111	-0.0047	-2.5 to 2.5	Pass

				-20	3.85	-6.466	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-4.406	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-6.094	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-6.552	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-4.478	-0.0026	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-4.764	-0.0027	-2.5 to 2.5	Pass
					3.85	-5.064	-0.0029	-2.5 to 2.5	Pass
					4.43	-4.177	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-5.894	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-4.220	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-4.249	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-4.177	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-6.151	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-5.965	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-5.364	-0.0031	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-2.518	-0.0014	-2.5 to 2.5	Pass
					3.85	-2.117	-0.0012	-2.5 to 2.5	Pass
					4.43	-4.663	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-2.418	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-3.262	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-5.836	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-7.181	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-4.377	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-3.705	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-3.891	-0.0022	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

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

3.1.2 B4_3MHz

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

3.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTVN						
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	
		Size	Offset	Result	Limit
QPSK	1732.5	50	0	Refer To Test Graph	
16QAM	1732.5	50	0	Refer To Test Graph	

3.1.5 B4_15MHz

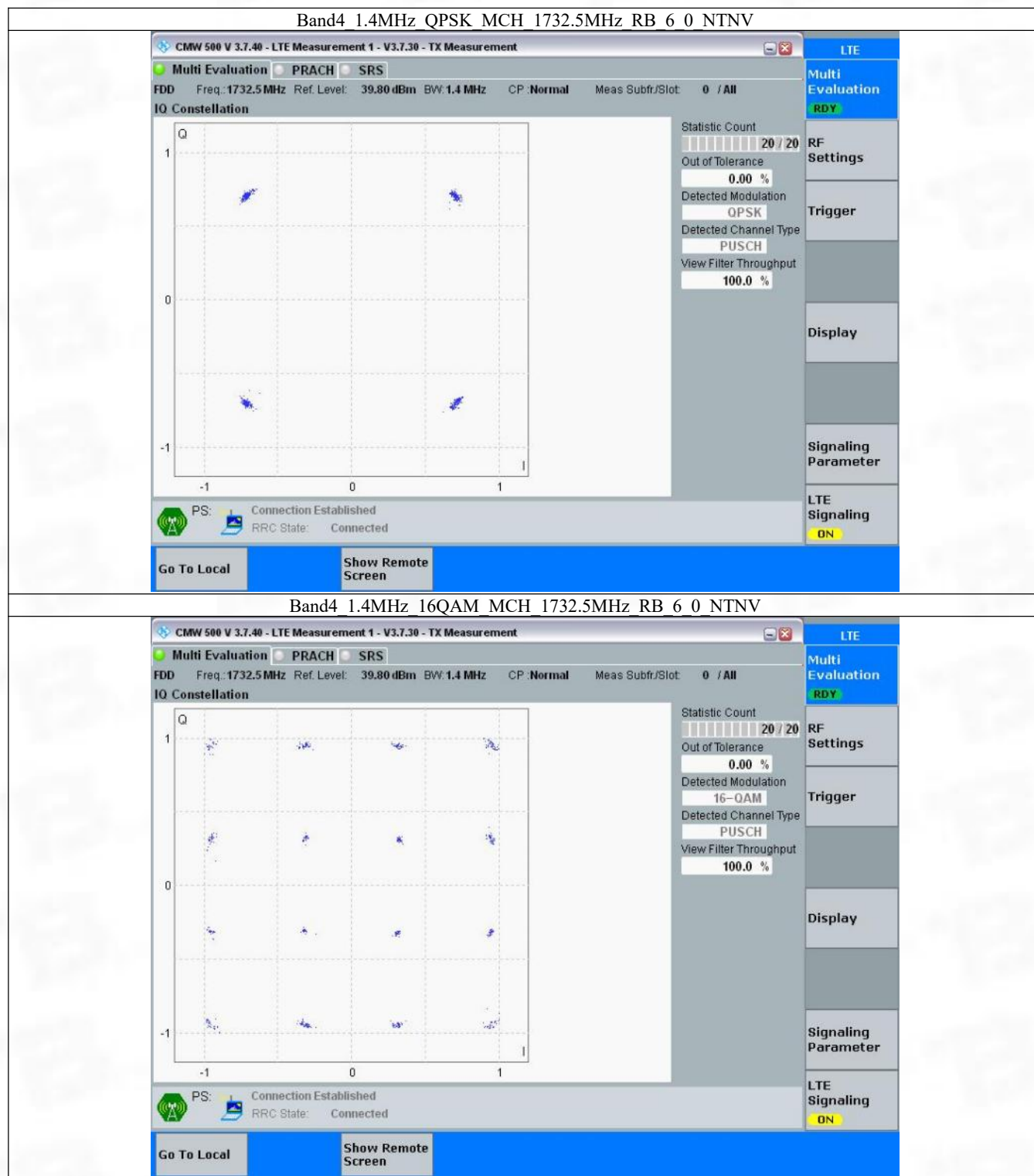
Band: 4 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	75	0	Refer To Test Graph	
16QAM	1732.5	75	0	Refer To Test Graph	

3.1.6 B4_20MHz

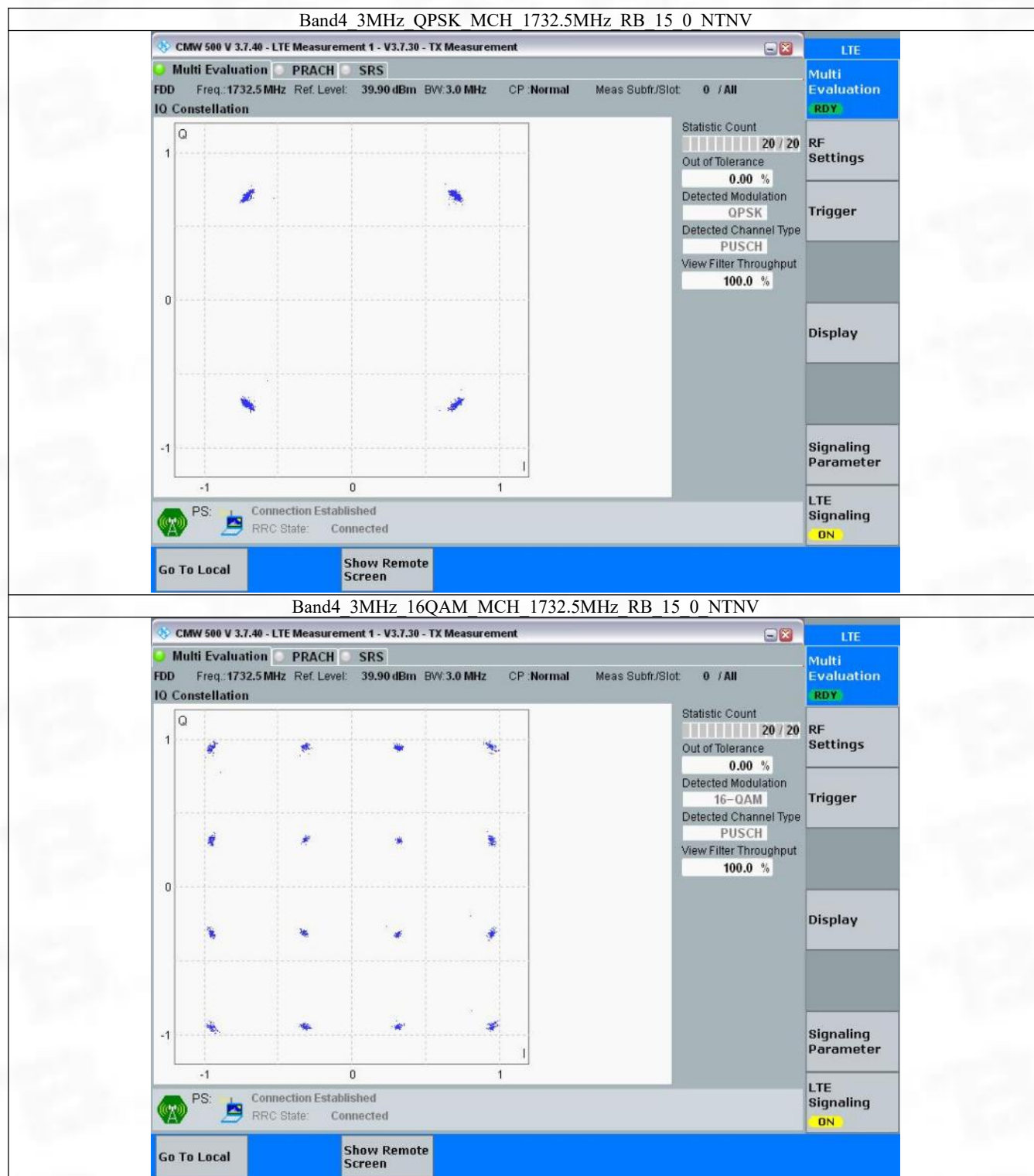
Band: 4 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	100	0	Refer To Test Graph	
16QAM	1732.5	100	0	Refer To Test Graph	

3.2 Test Graph

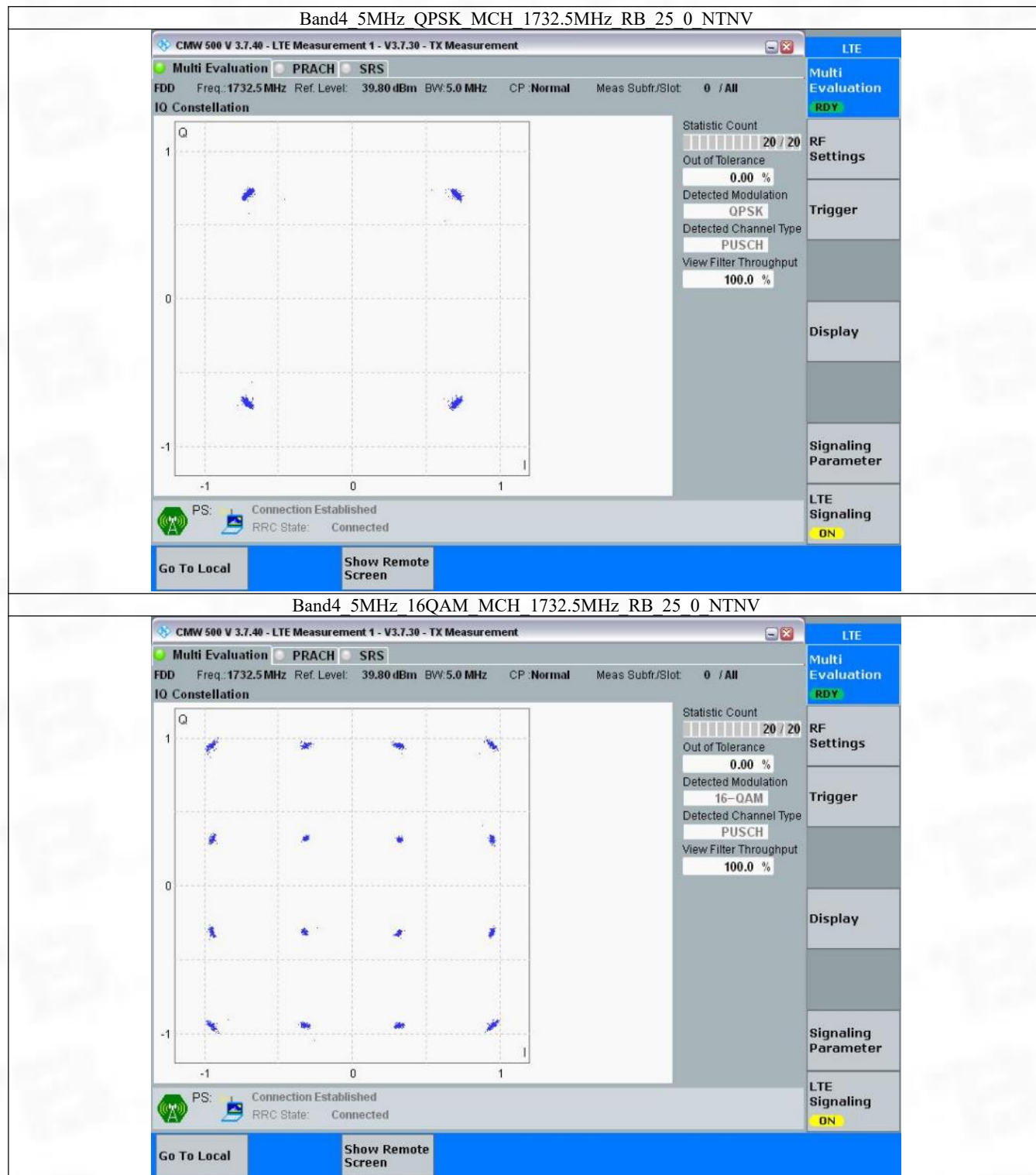
3.2.1 B4_1.4MHz



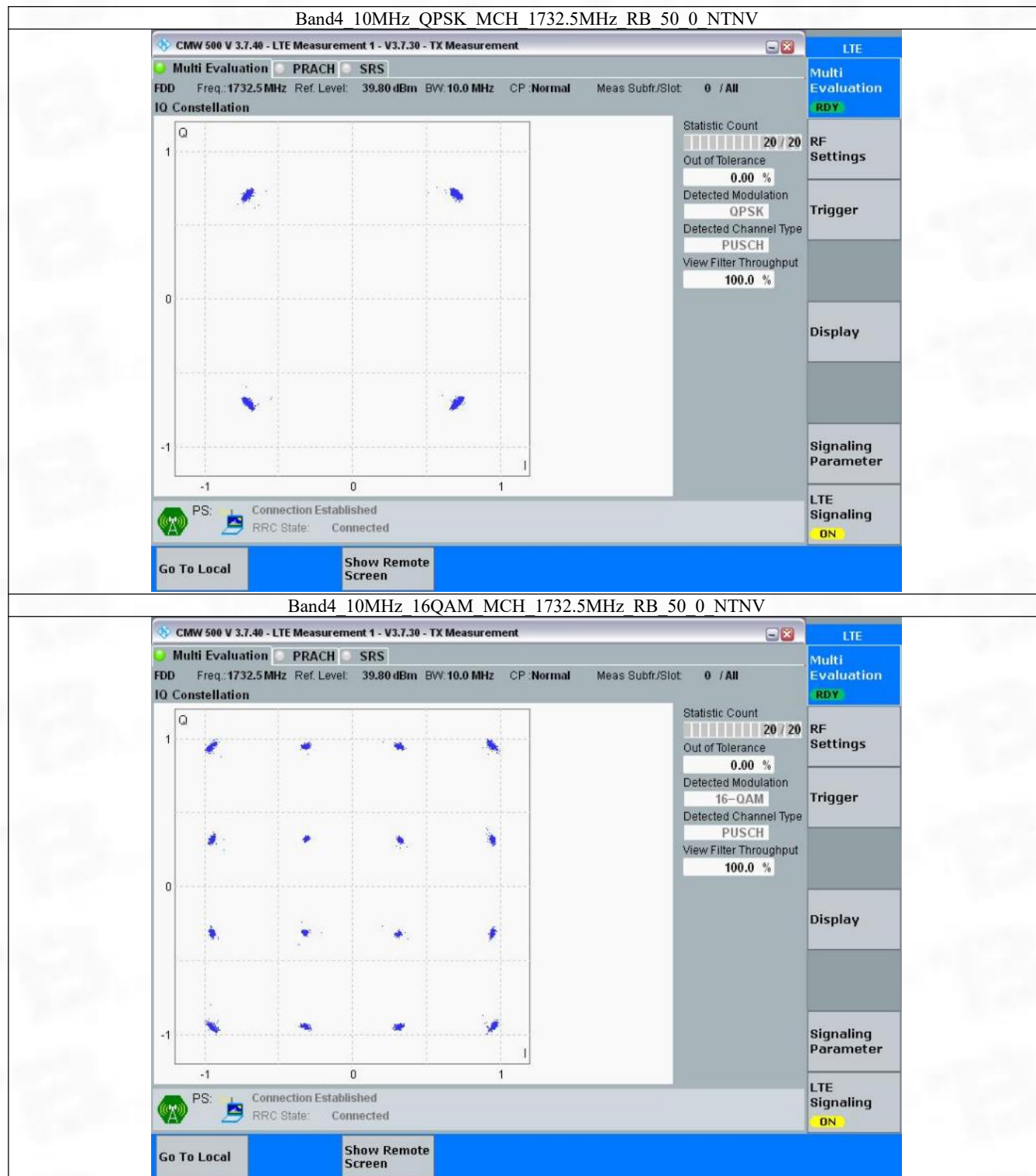
3.2.2 B4_3MHz



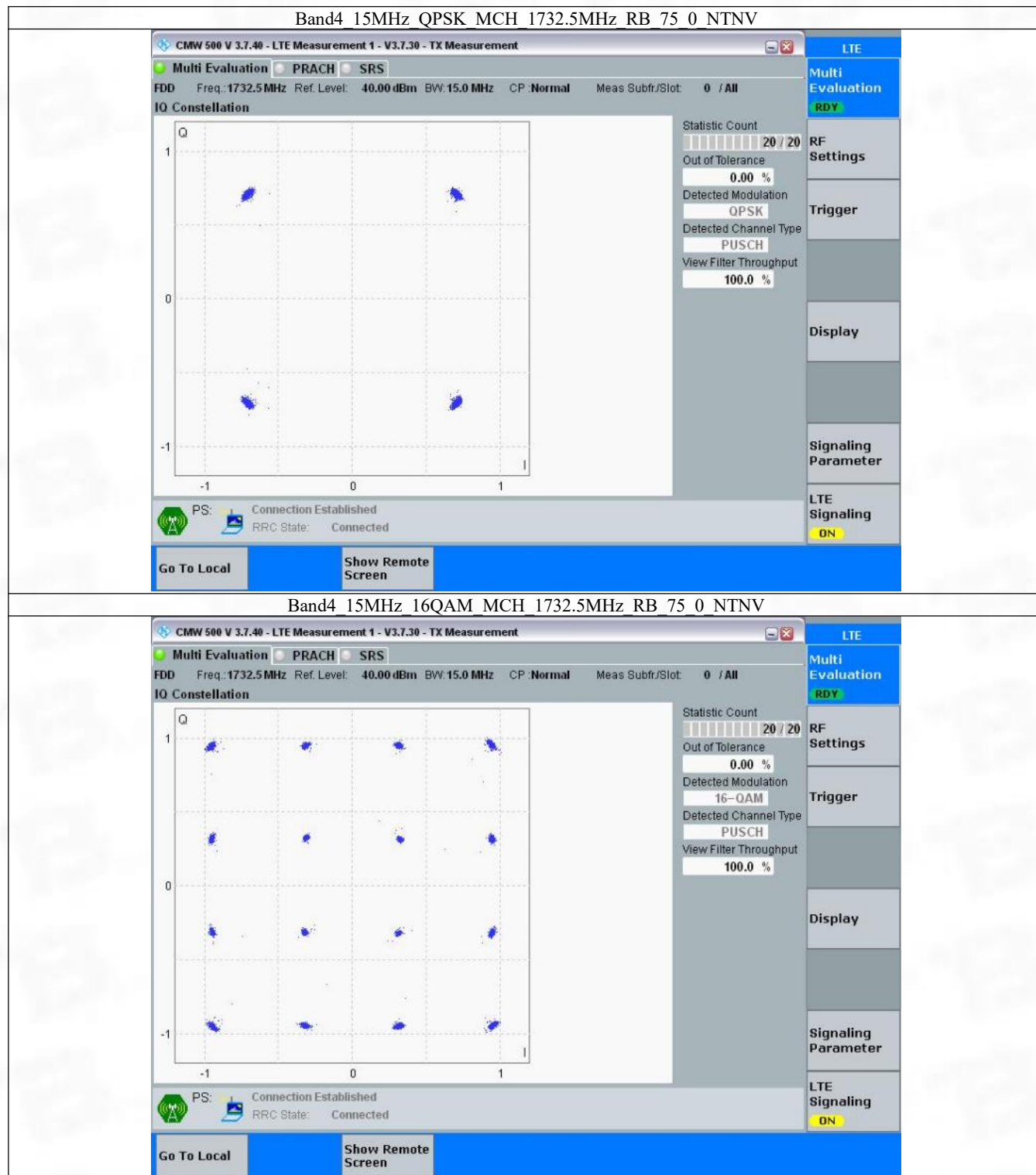
3.2.3 B4_5MHz



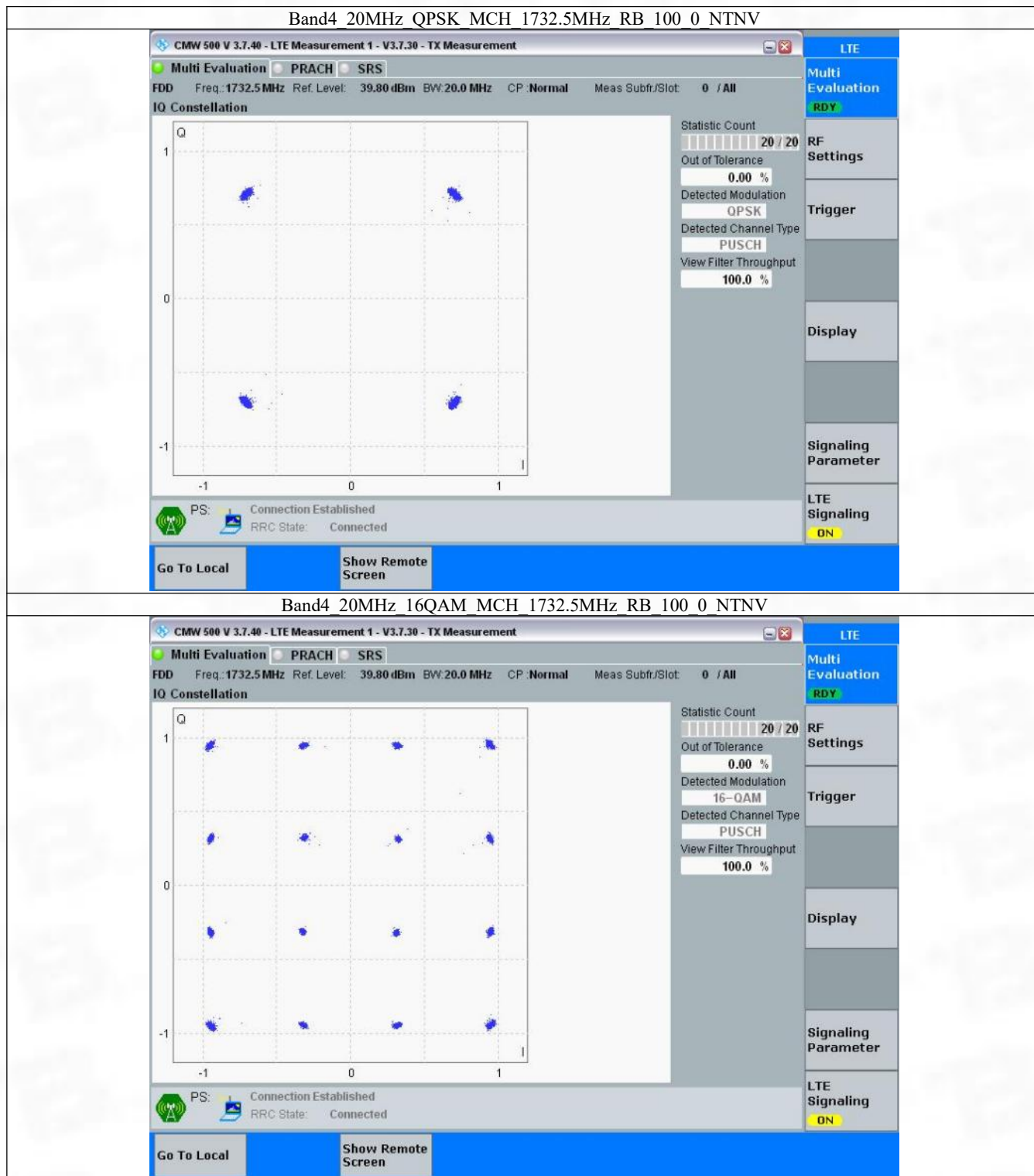
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.117	/	Pass
		1732.5	6	0	1.109	/	Pass
		1754.3	6	0	1.105	/	Pass
	16QAM	1710.7	6	0	1.107	/	Pass
		1732.5	6	0	1.107	/	Pass
		1754.3	6	0	1.112	/	Pass
3	QPSK	1711.5	15	0	2.720	/	Pass
		1732.5	15	0	2.737	/	Pass
		1753.5	15	0	2.727	/	Pass
	16QAM	1711.5	15	0	2.726	/	Pass
		1732.5	15	0	2.724	/	Pass
		1753.5	15	0	2.721	/	Pass
5	QPSK	1712.5	25	0	4.541	/	Pass
		1732.5	25	0	4.542	/	Pass
		1752.5	25	0	4.552	/	Pass
	16QAM	1712.5	25	0	4.541	/	Pass
		1732.5	25	0	4.547	/	Pass
		1752.5	25	0	4.527	/	Pass
10	QPSK	1715	50	0	9.071	/	Pass
		1732.5	50	0	9.050	/	Pass
		1750	50	0	9.067	/	Pass
	16QAM	1715	50	0	9.042	/	Pass
		1732.5	50	0	9.036	/	Pass
		1750	50	0	9.052	/	Pass
15	QPSK	1717.5	75	0	13.582	/	Pass
		1732.5	75	0	13.570	/	Pass
		1747.5	75	0	13.590	/	Pass
	16QAM	1717.5	75	0	13.618	/	Pass
		1732.5	75	0	13.569	/	Pass
		1747.5	75	0	13.598	/	Pass
20	QPSK	1720	100	0	18.075	/	Pass
		1732.5	100	0	18.095	/	Pass
		1745	100	0	18.104	/	Pass
	16QAM	1720	100	0	18.117	/	Pass
		1732.5	100	0	18.045	/	Pass
		1745	100	0	18.089	/	Pass

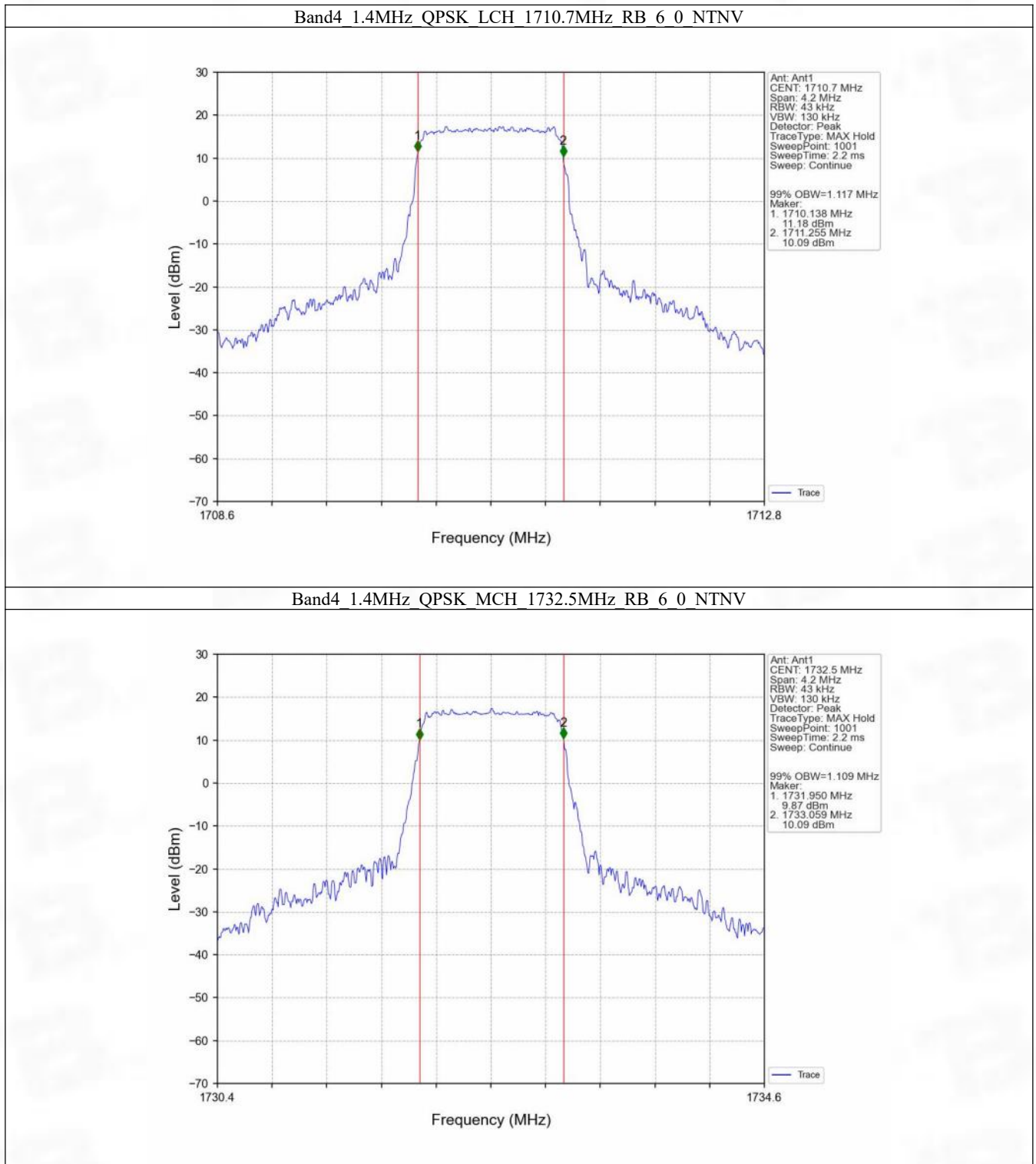
4.1.2 Band4_XDB

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	1.322	/	Pass
		1732.5	6	0	1.324	/	Pass
		1754.3	6	0	1.315	/	Pass
	16QAM	1710.7	6	0	1.320	/	Pass
		1732.5	6	0	1.313	/	Pass

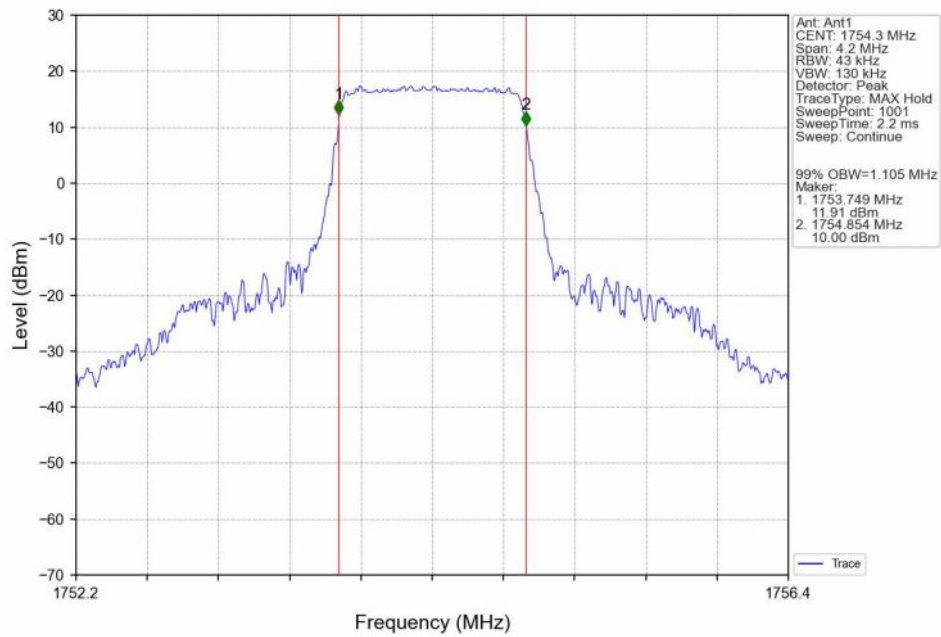
		1754.3	6	0	1.326	/	Pass
3	QPSK	1711.5	15	0	2.984	/	Pass
		1732.5	15	0	2.976	/	Pass
		1753.5	15	0	2.993	/	Pass
		1711.5	15	0	2.995	/	Pass
	16QAM	1732.5	15	0	2.986	/	Pass
		1753.5	15	0	2.983	/	Pass
5	QPSK	1712.5	25	0	5.010	/	Pass
		1732.5	25	0	5.023	/	Pass
		1752.5	25	0	5.006	/	Pass
	16QAM	1712.5	25	0	5.042	/	Pass
		1732.5	25	0	5.020	/	Pass
		1752.5	25	0	4.991	/	Pass
10	QPSK	1715	50	0	9.930	/	Pass
		1732.5	50	0	9.958	/	Pass
		1750	50	0	9.998	/	Pass
	16QAM	1715	50	0	9.971	/	Pass
		1732.5	50	0	9.978	/	Pass
		1750	50	0	9.912	/	Pass
15	QPSK	1717.5	75	0	14.866	/	Pass
		1732.5	75	0	14.844	/	Pass
		1747.5	75	0	14.963	/	Pass
	16QAM	1717.5	75	0	14.859	/	Pass
		1732.5	75	0	14.927	/	Pass
		1747.5	75	0	14.898	/	Pass
20	QPSK	1720	100	0	20.152	/	Pass
		1732.5	100	0	19.840	/	Pass
		1745	100	0	19.650	/	Pass
	16QAM	1720	100	0	19.786	/	Pass
		1732.5	100	0	19.739	/	Pass
		1745	100	0	19.735	/	Pass

4.2 Test Graph

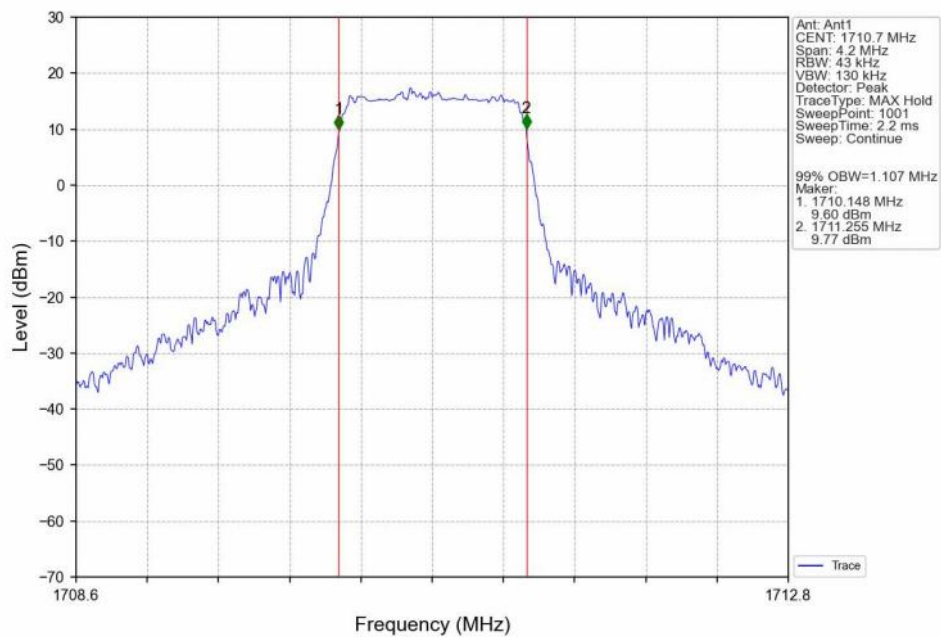
4.2.1 Band4_OBW



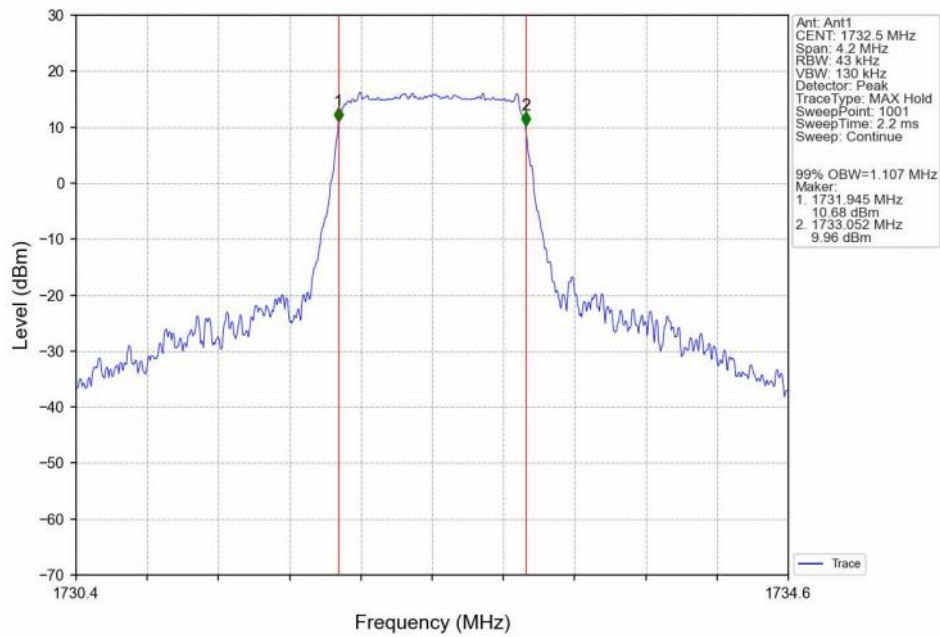
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



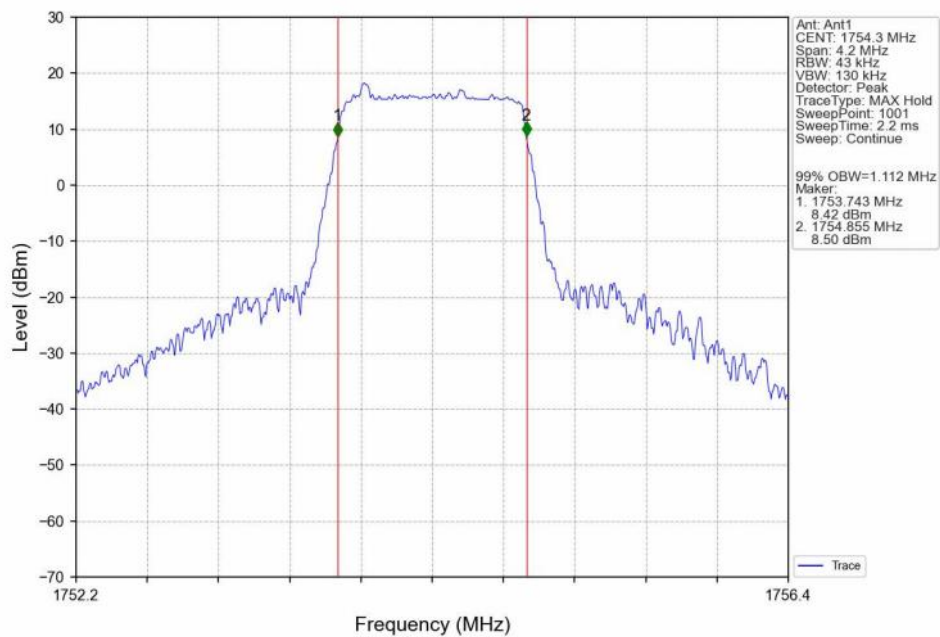
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



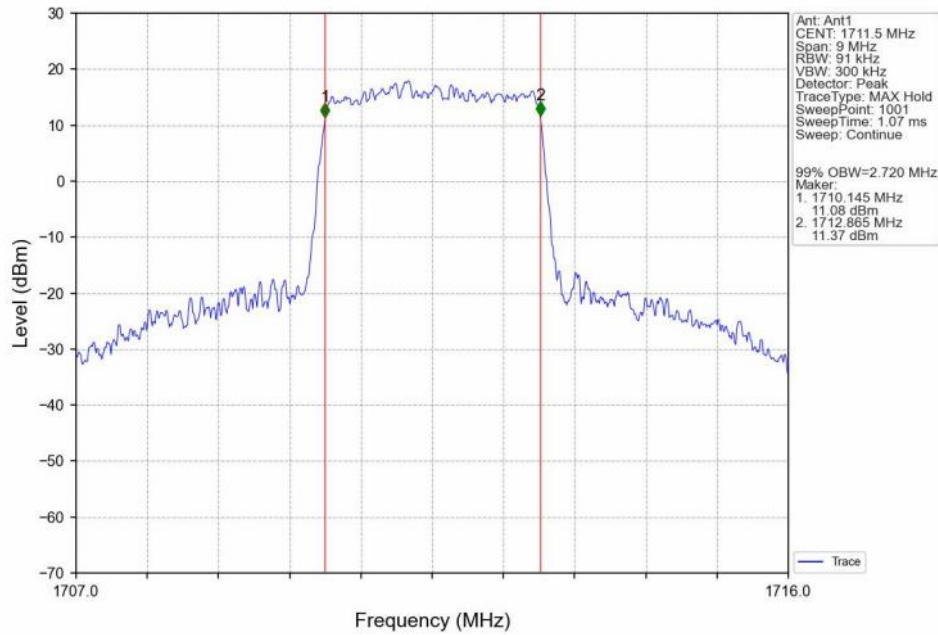
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



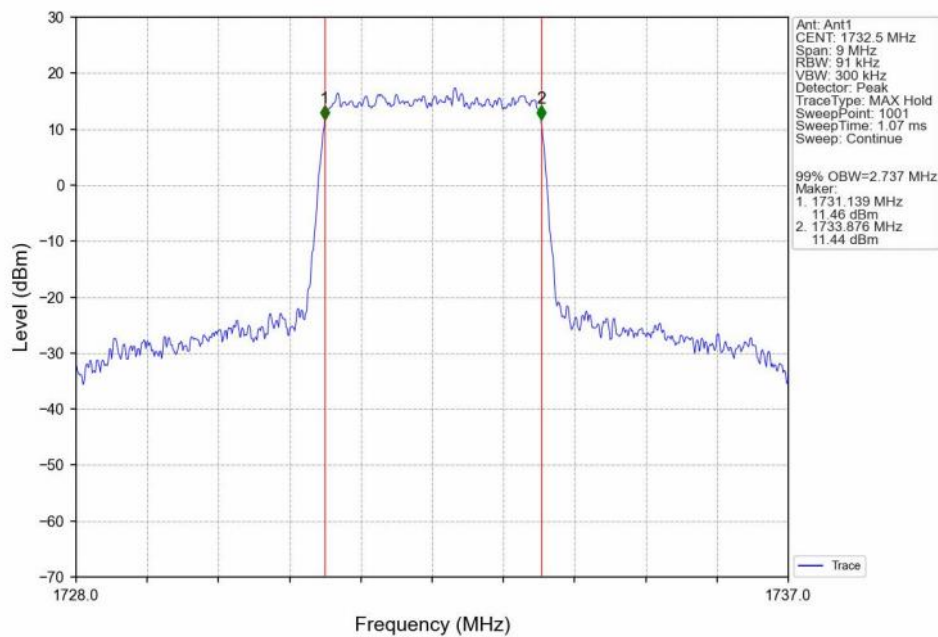
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



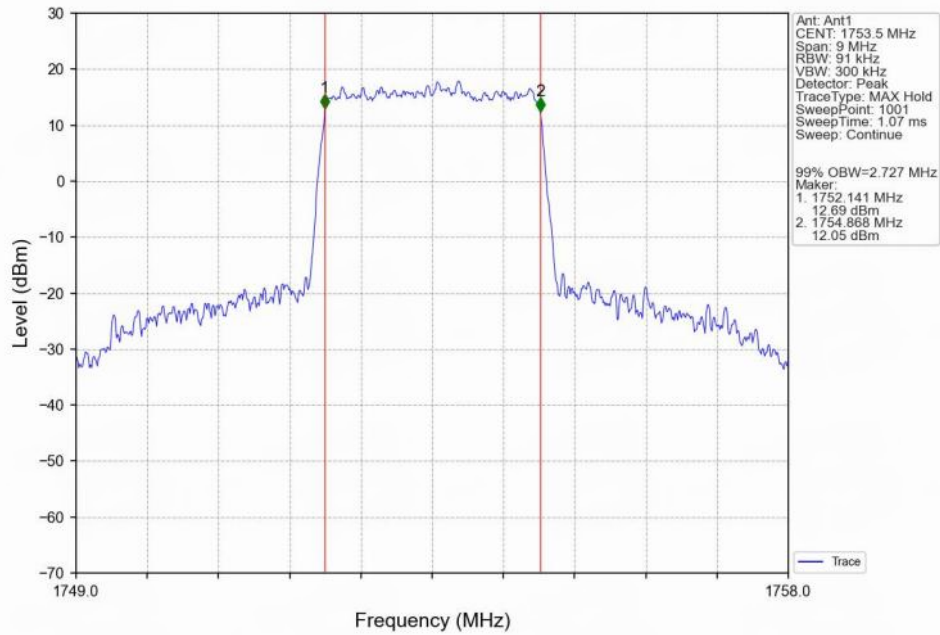
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



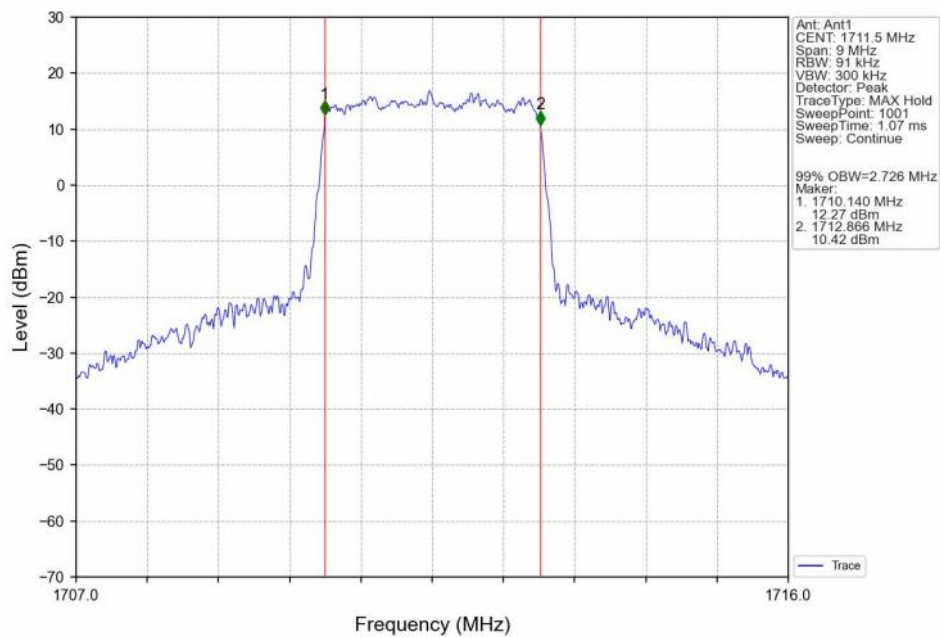
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



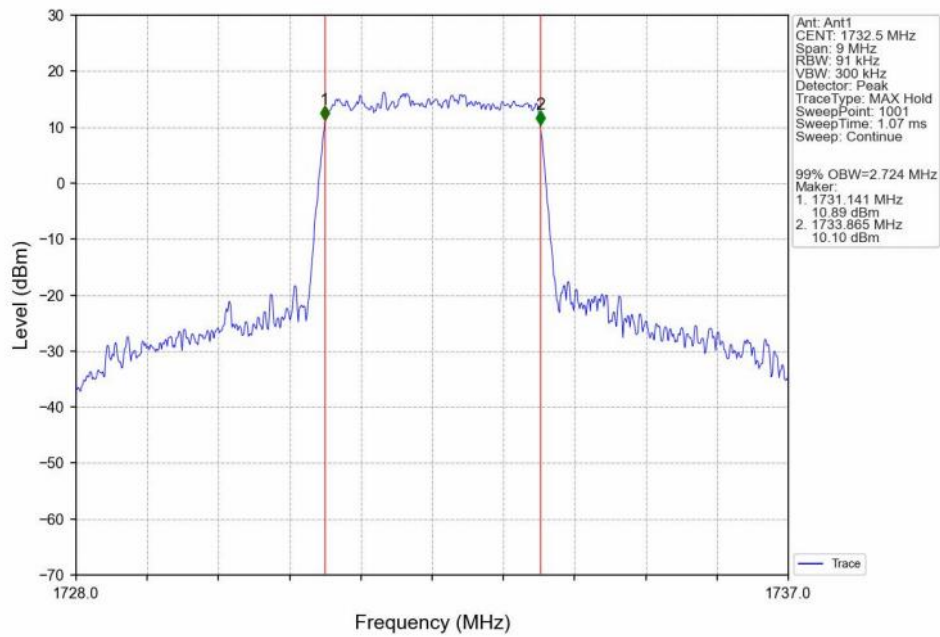
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV



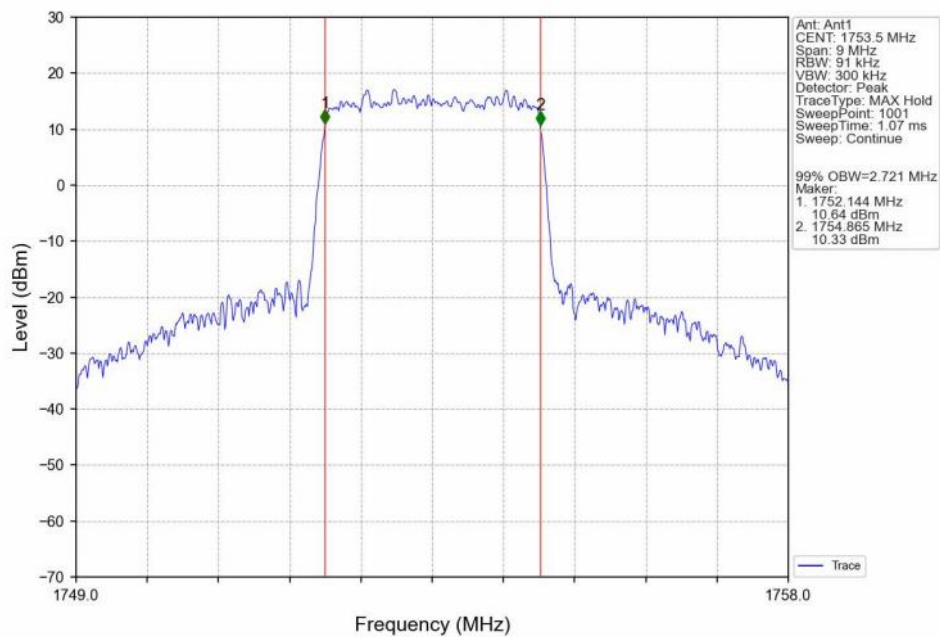
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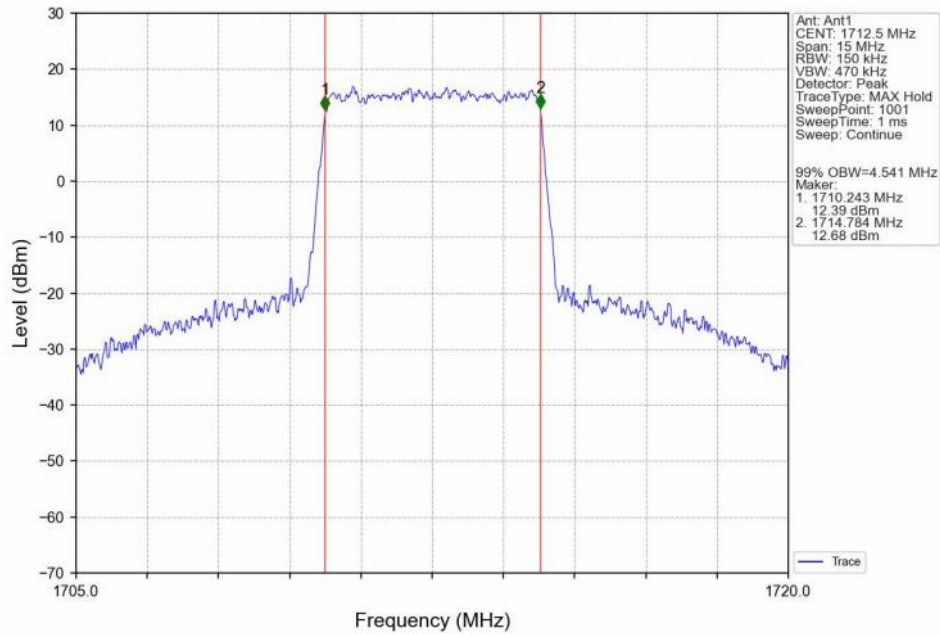
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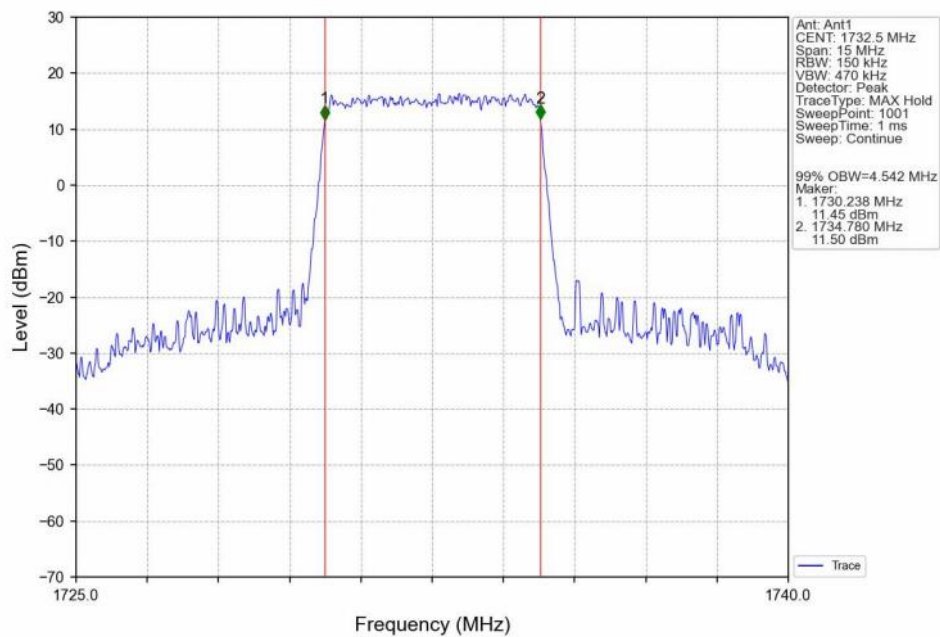
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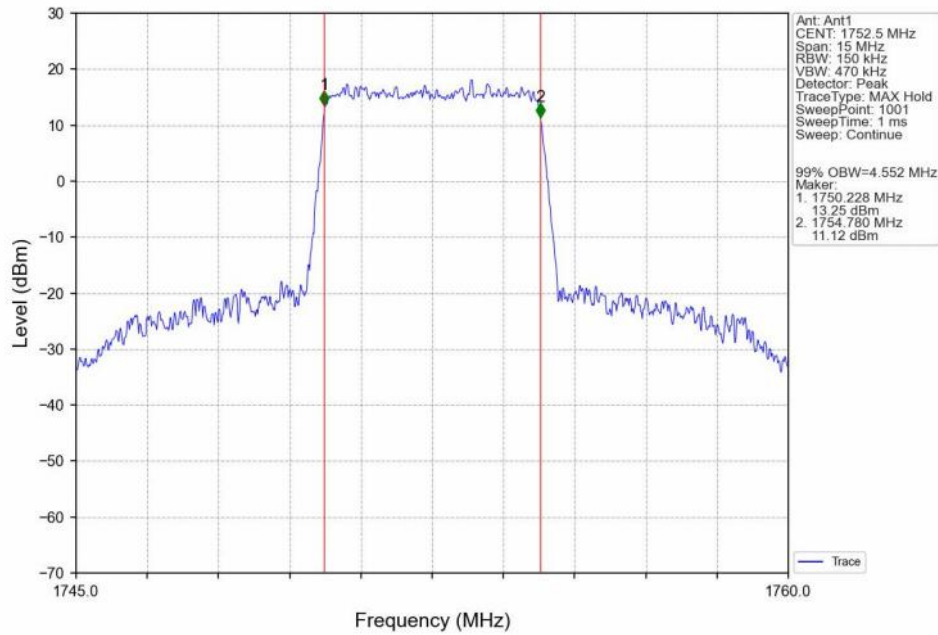
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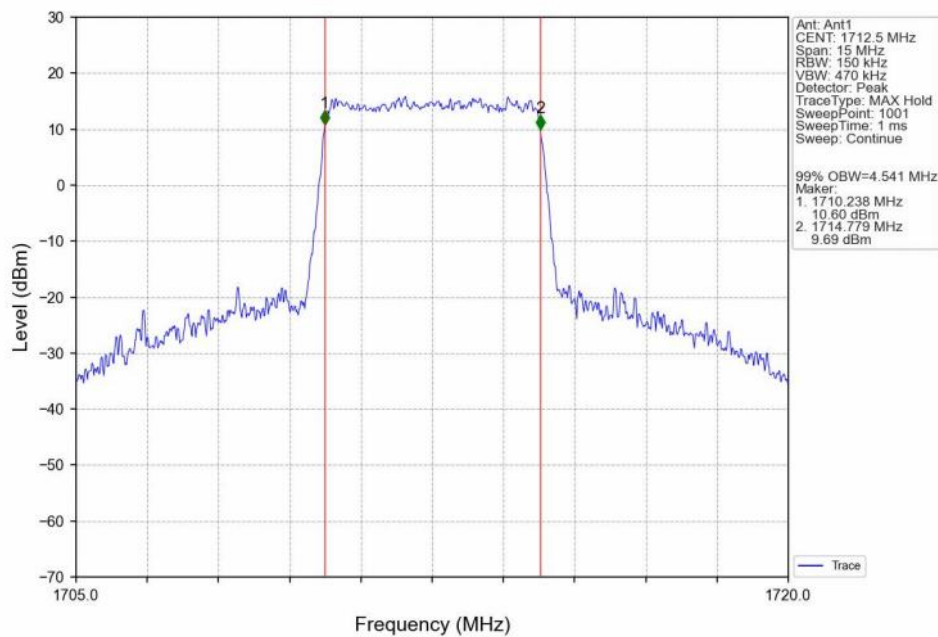
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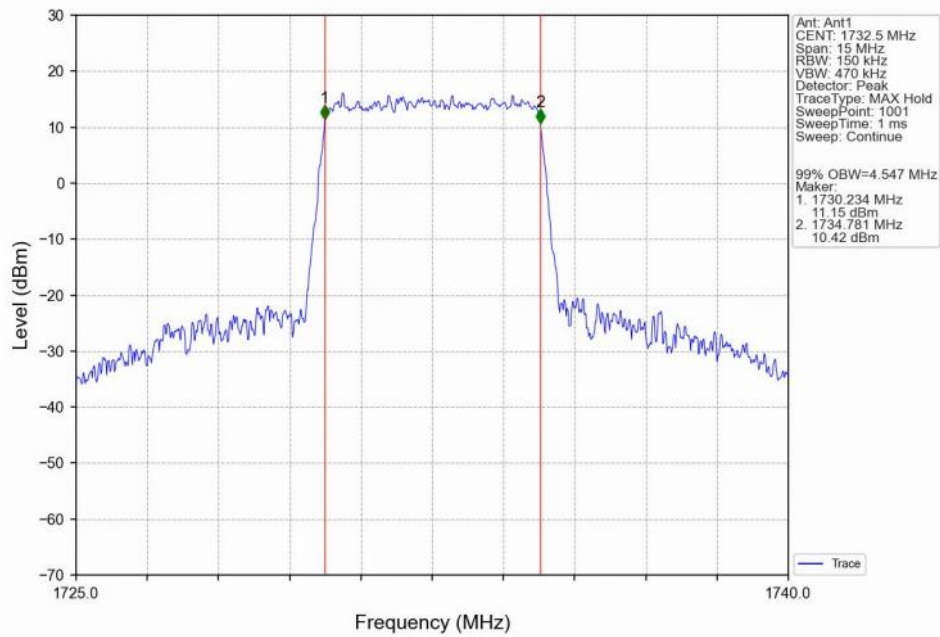
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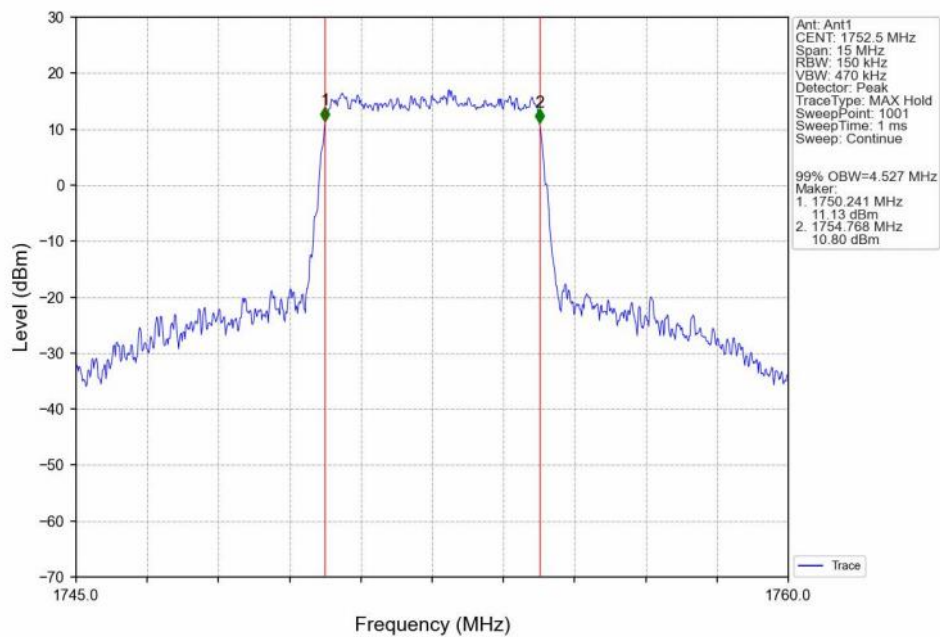
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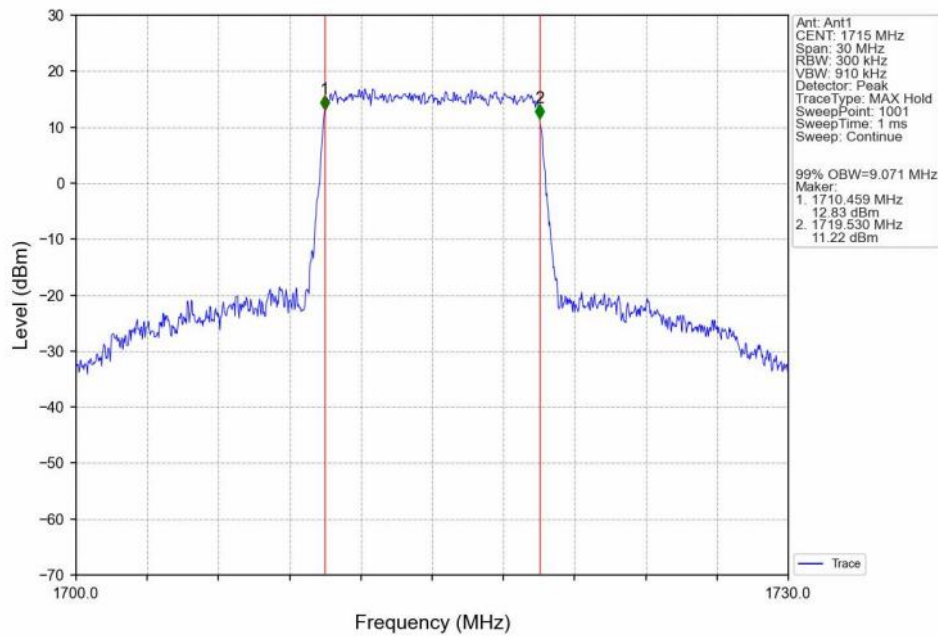
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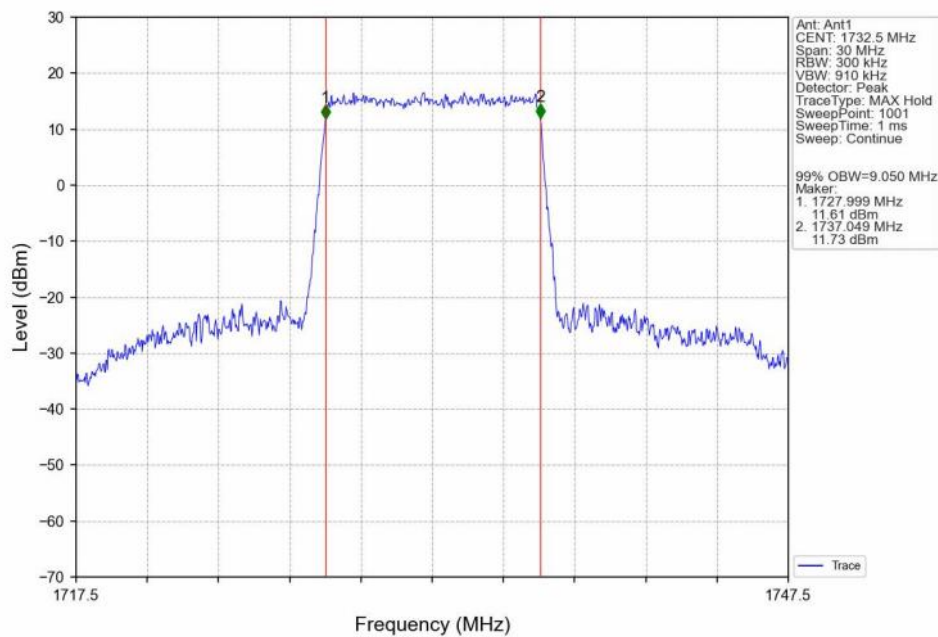
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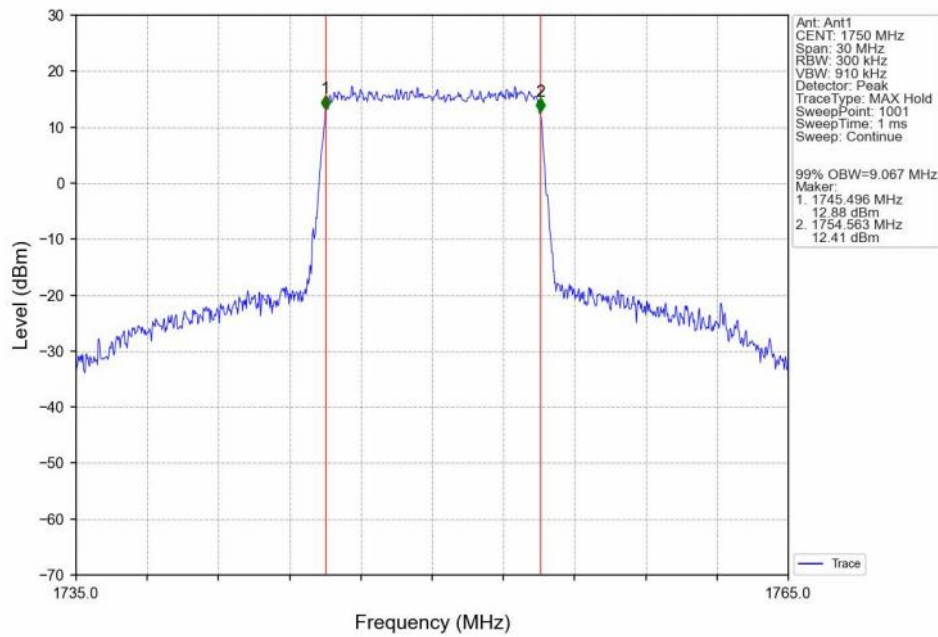
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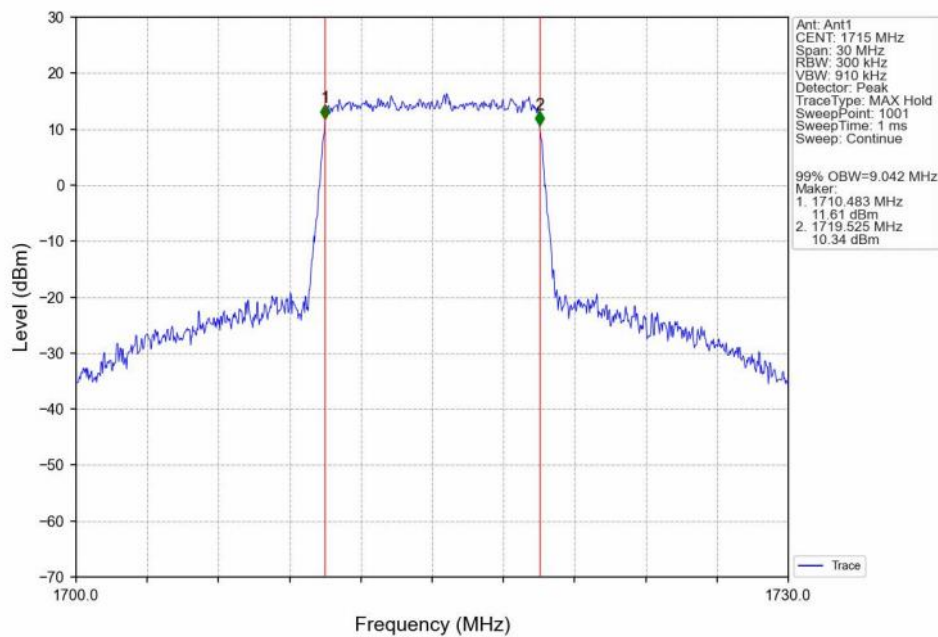
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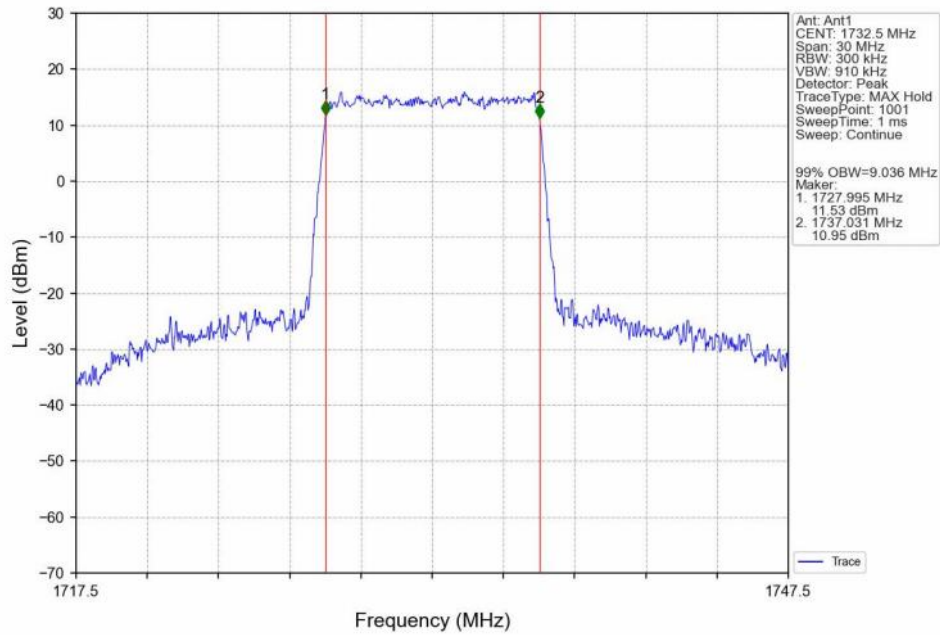
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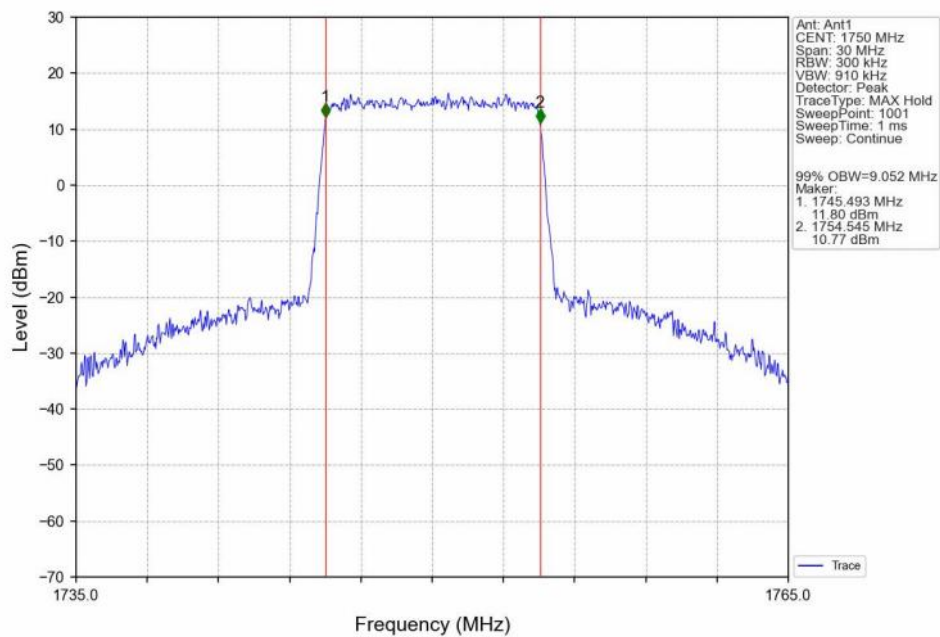
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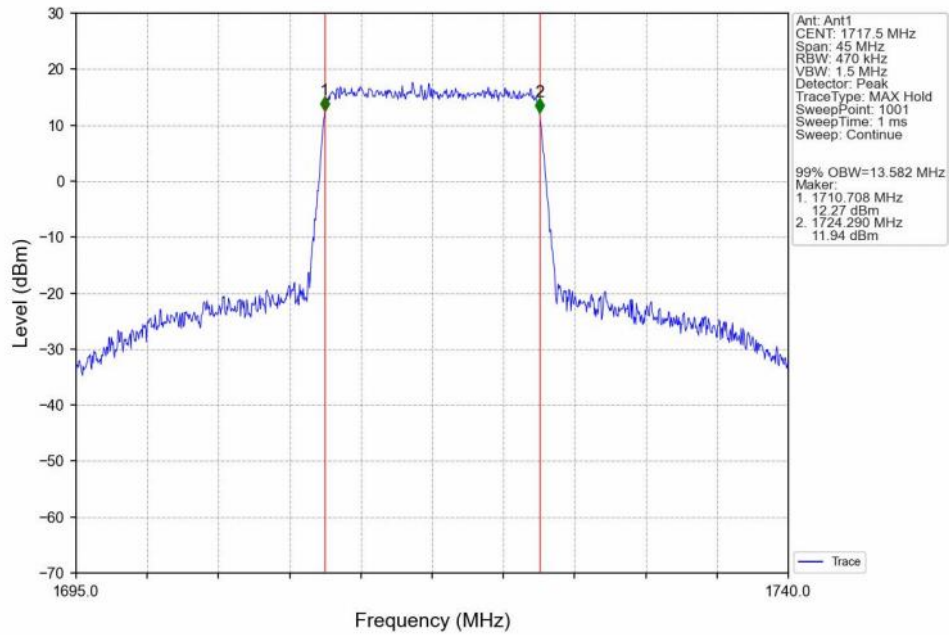
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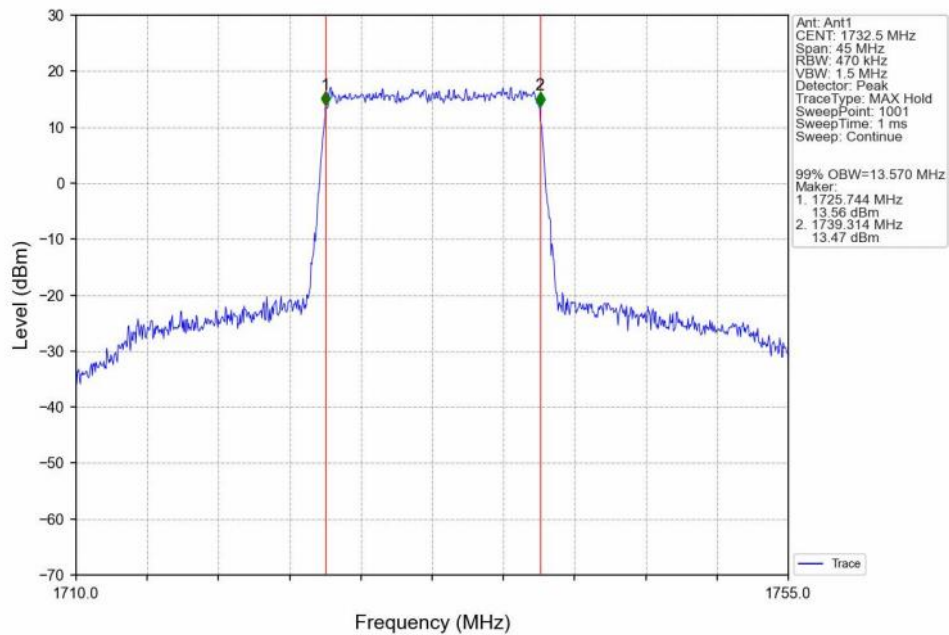
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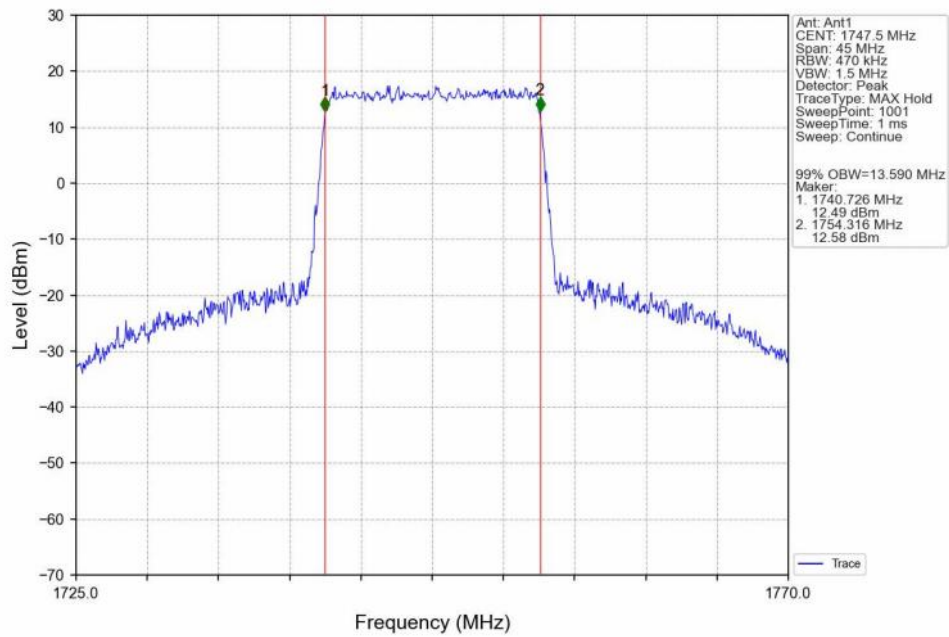
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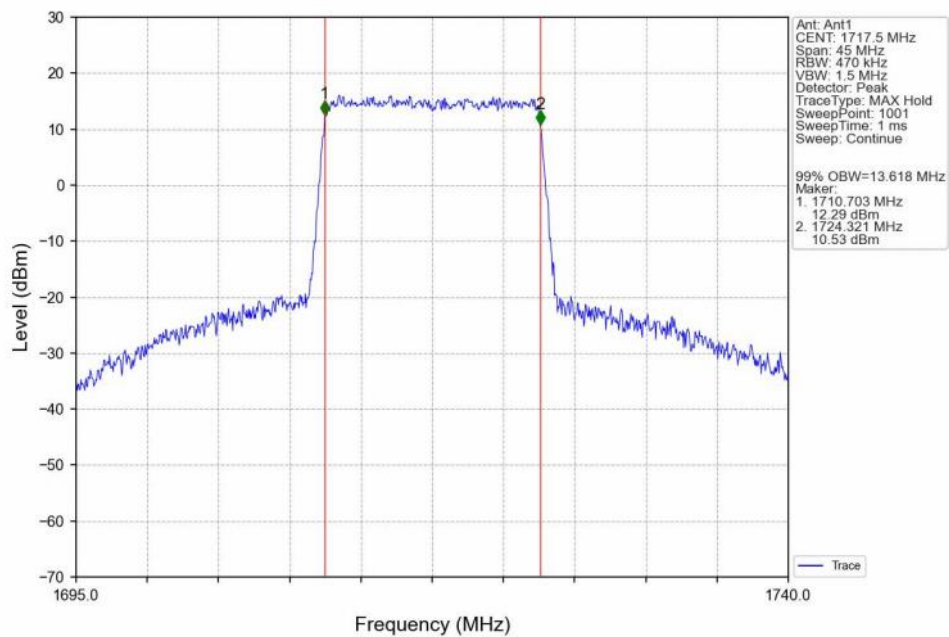
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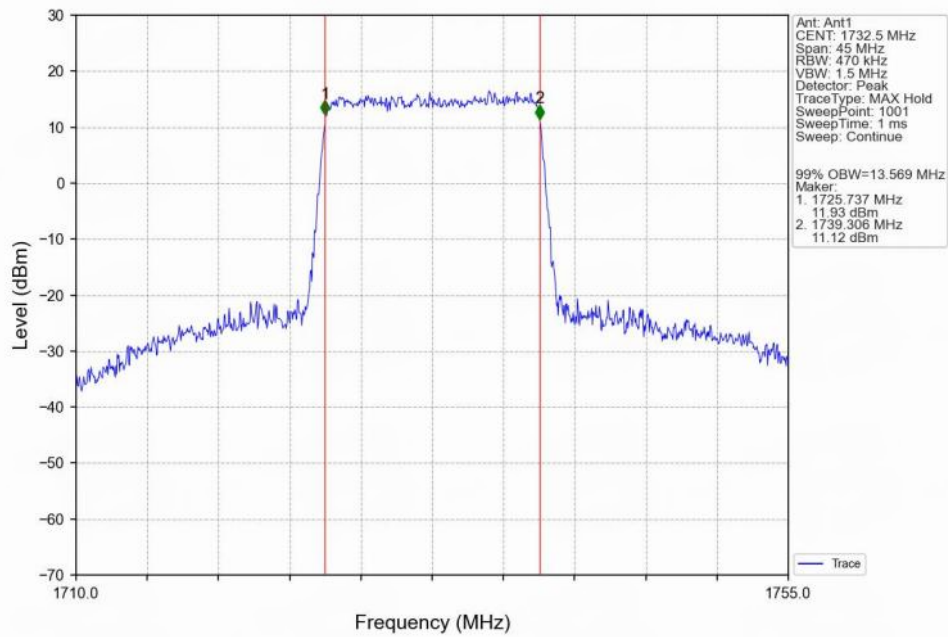
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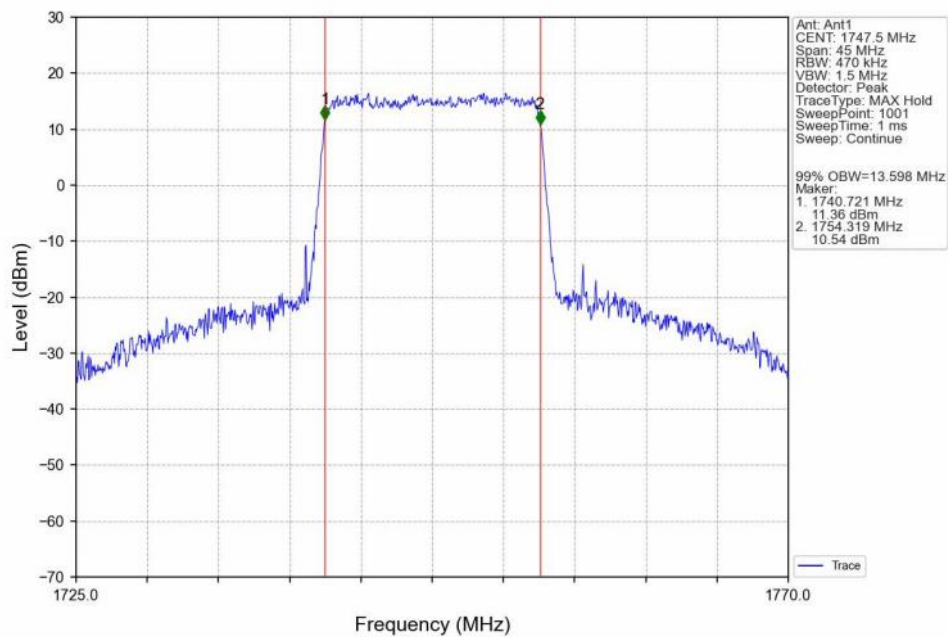
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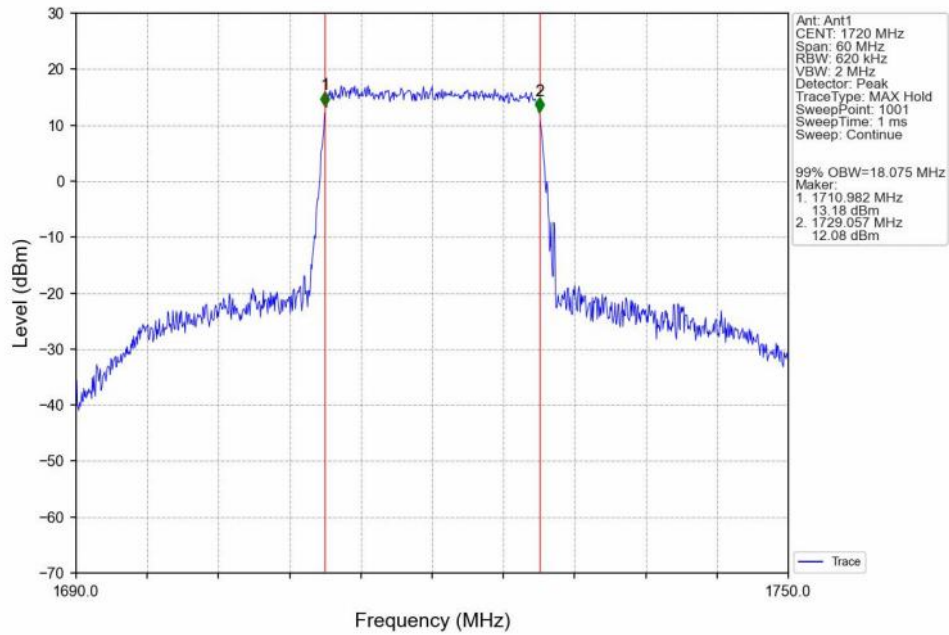
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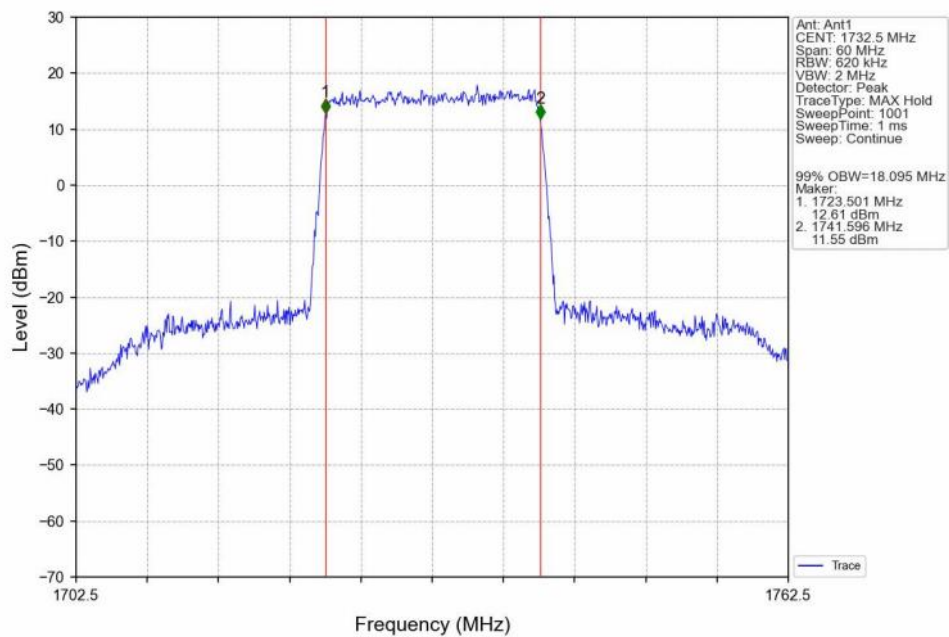
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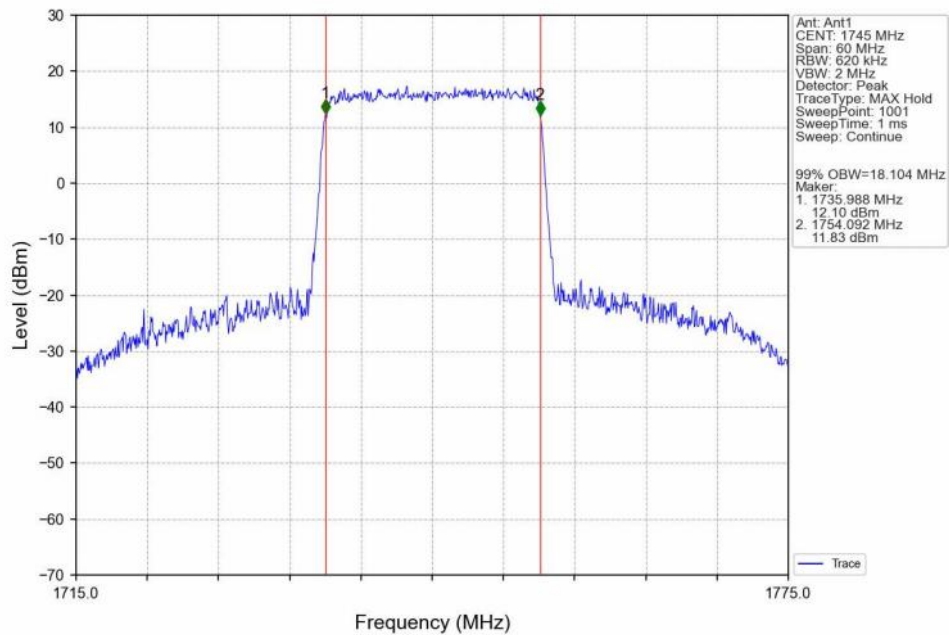
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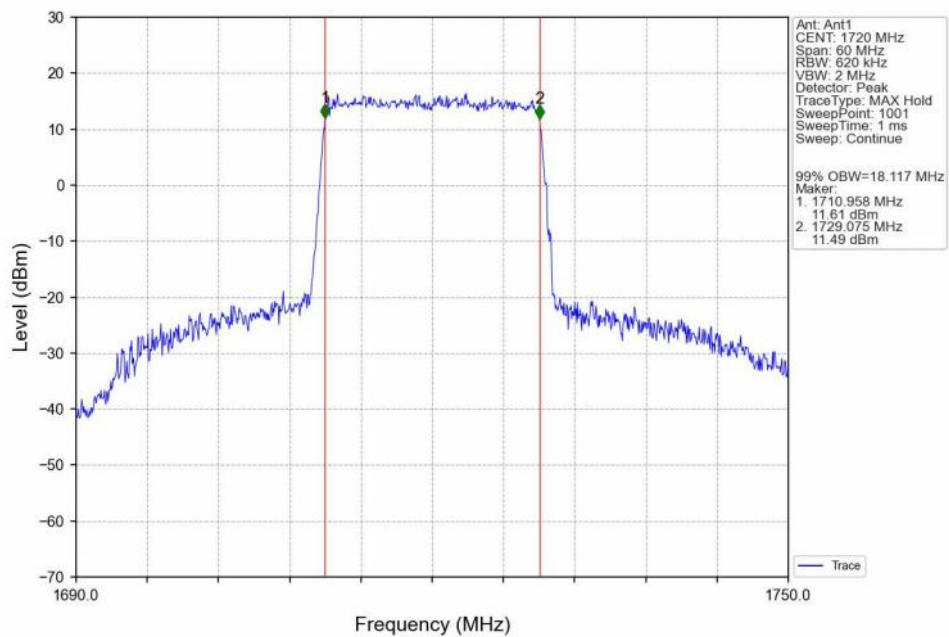
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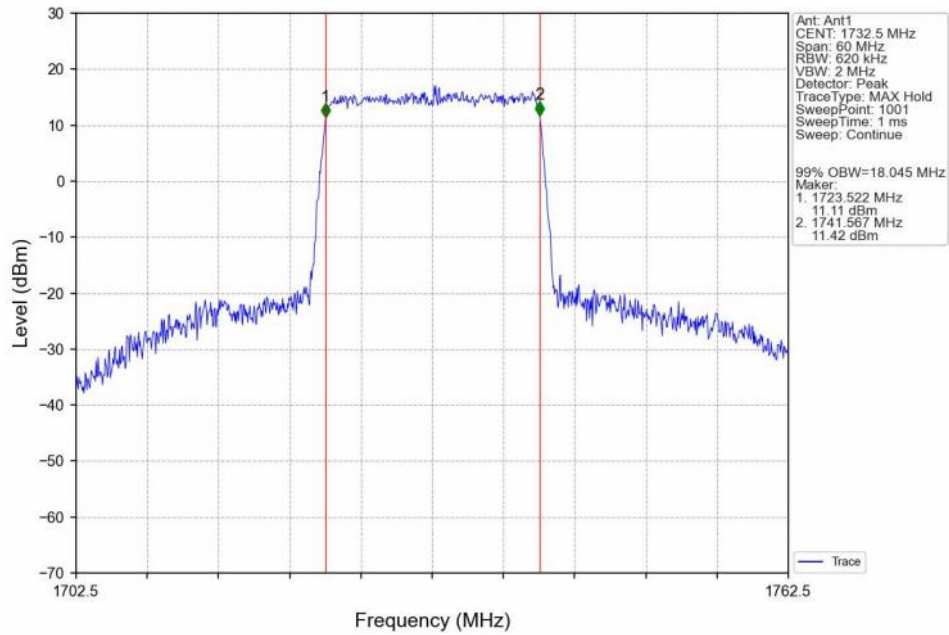
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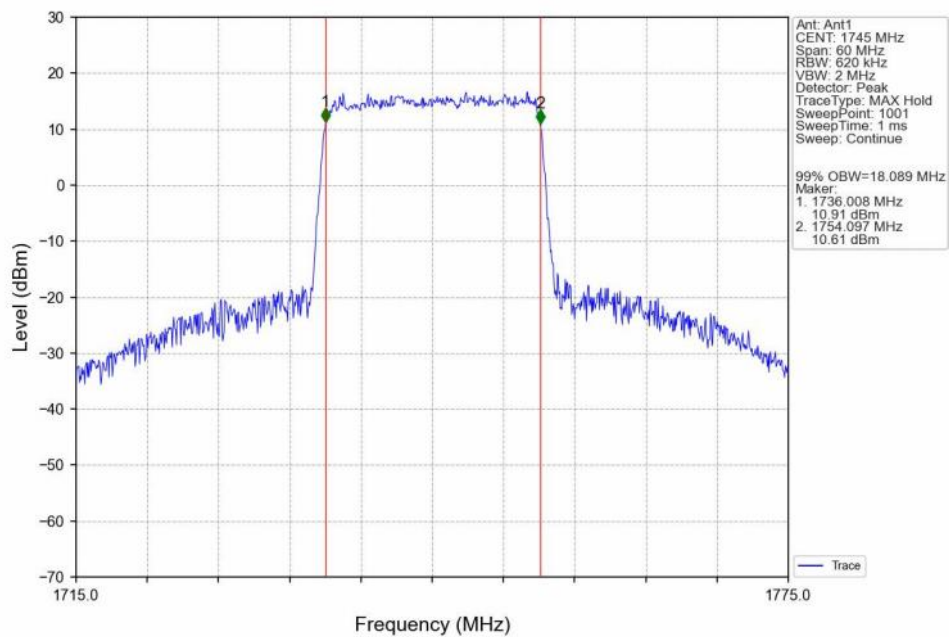
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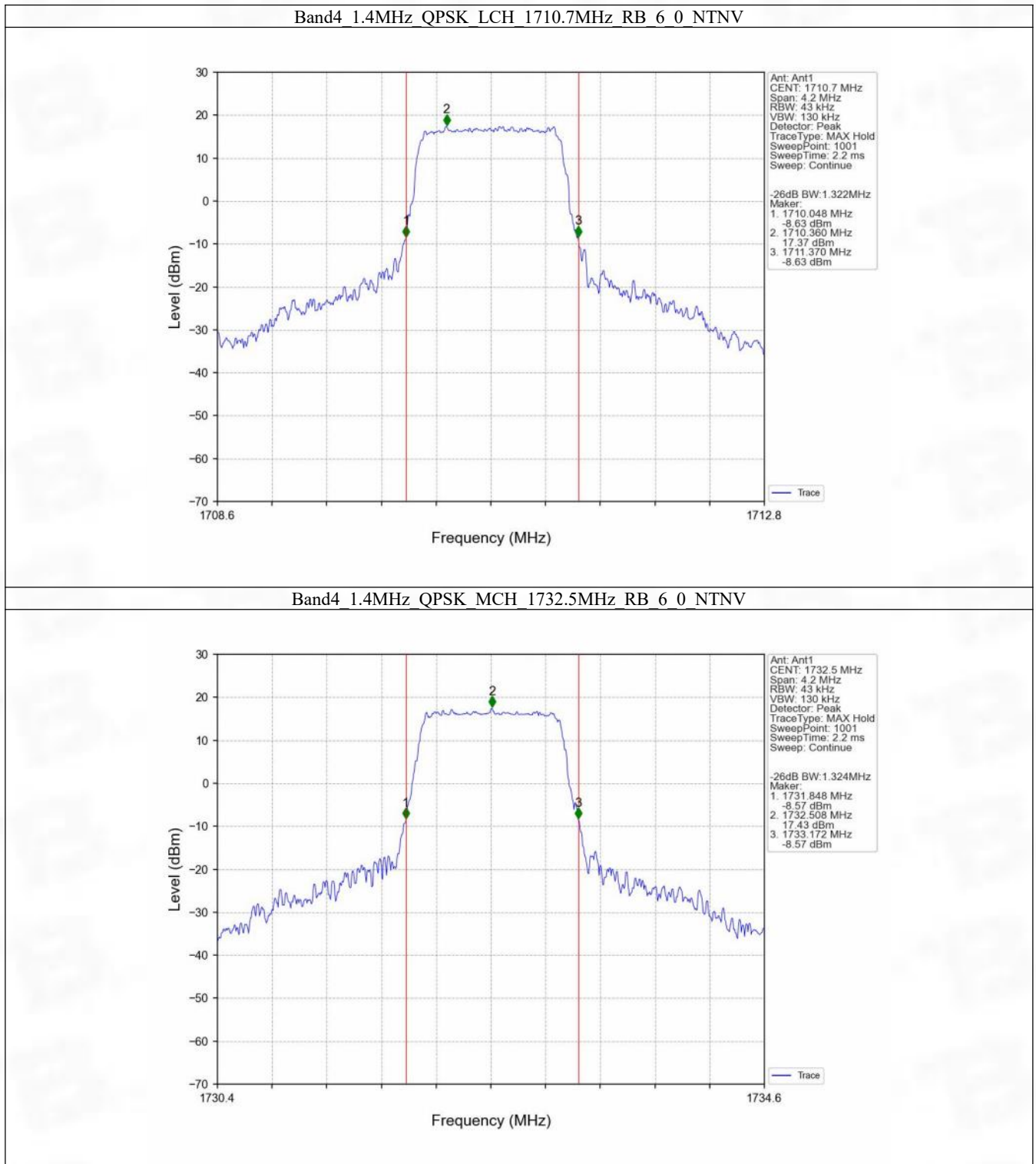
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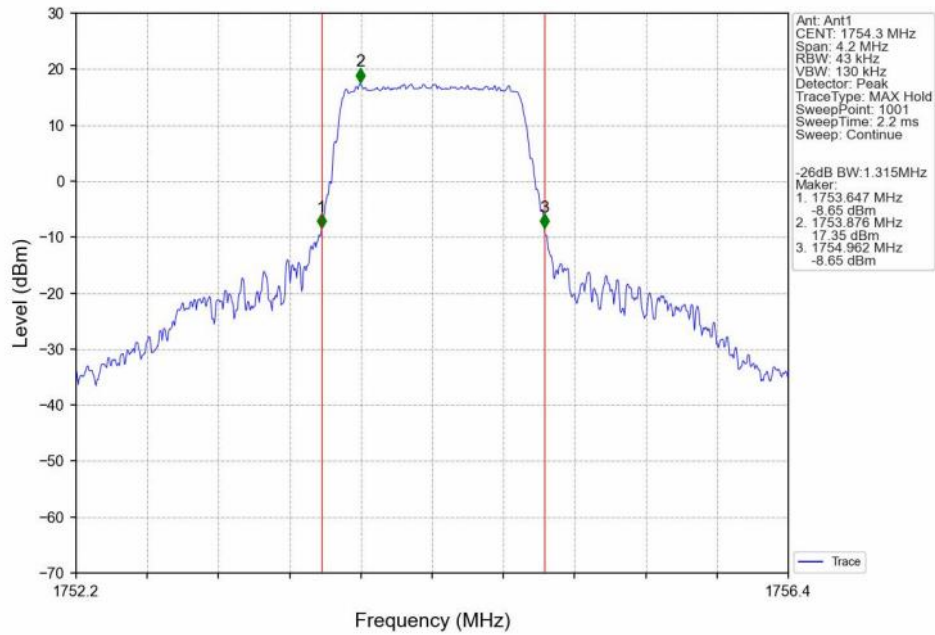
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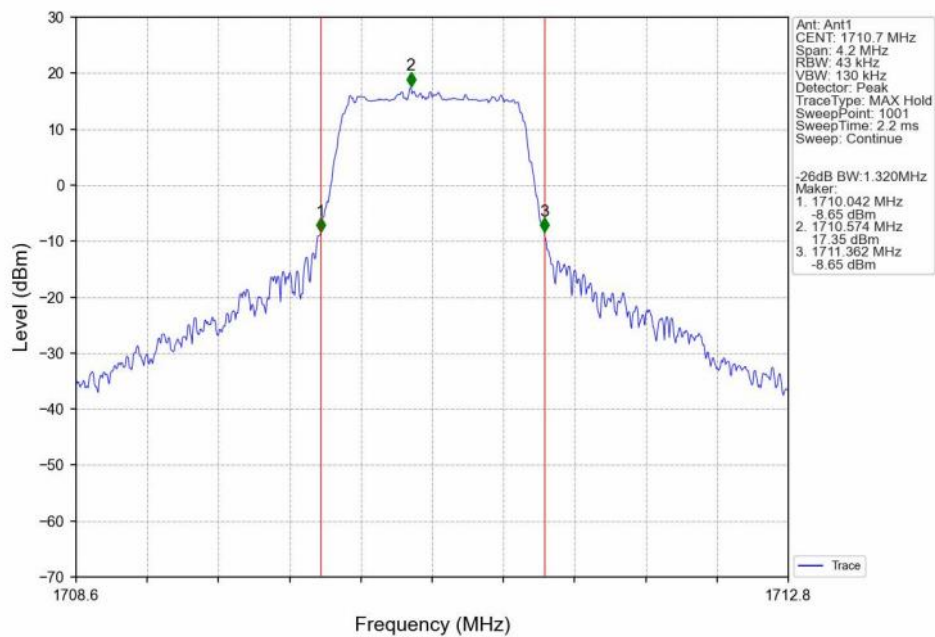
4.2.2 Band4_XDB



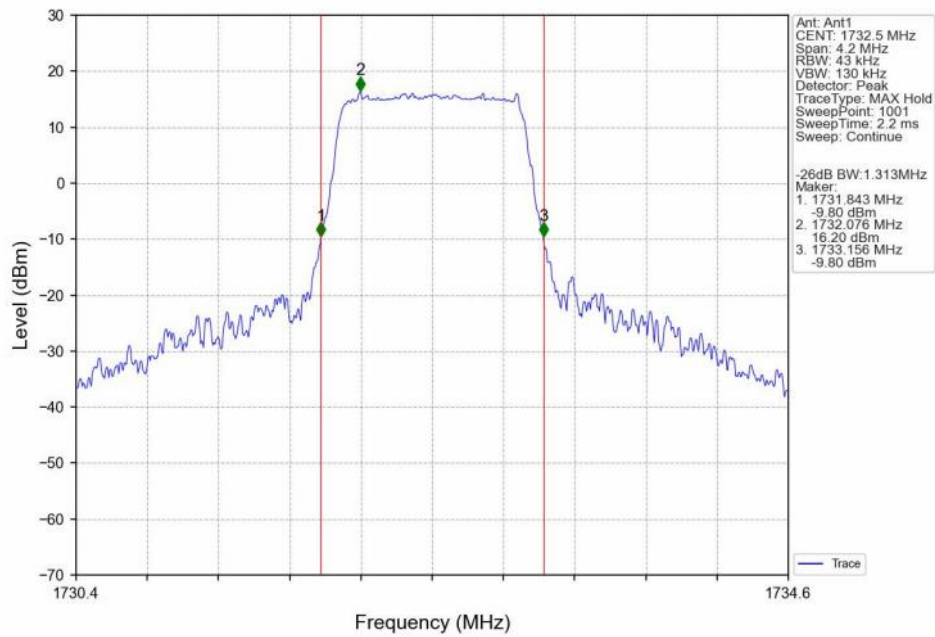
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



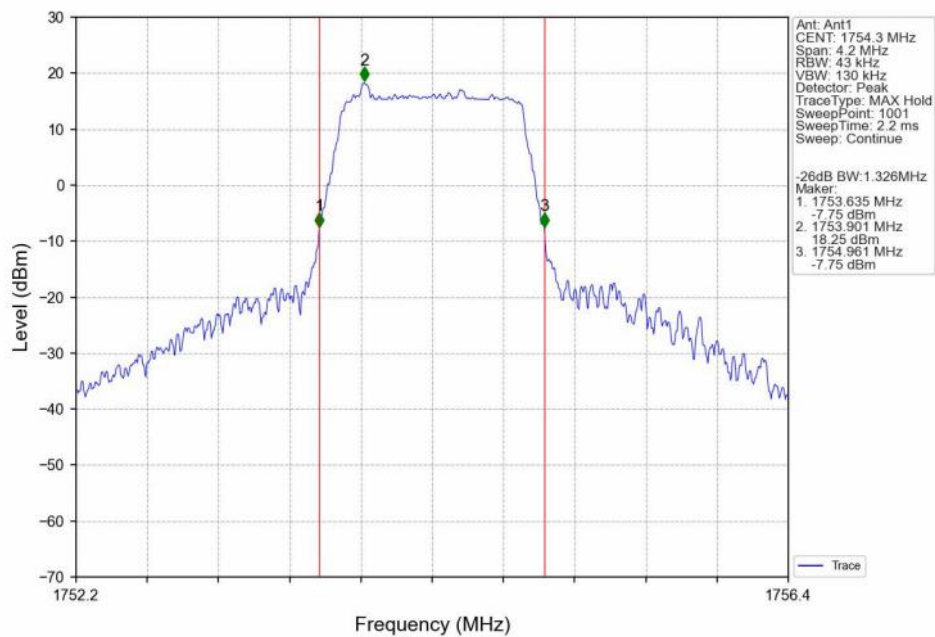
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



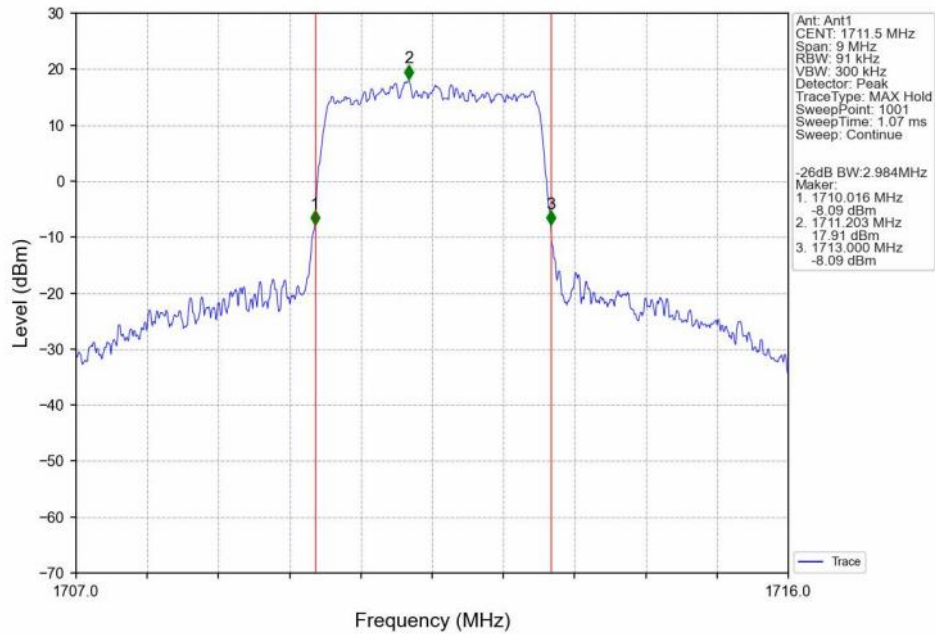
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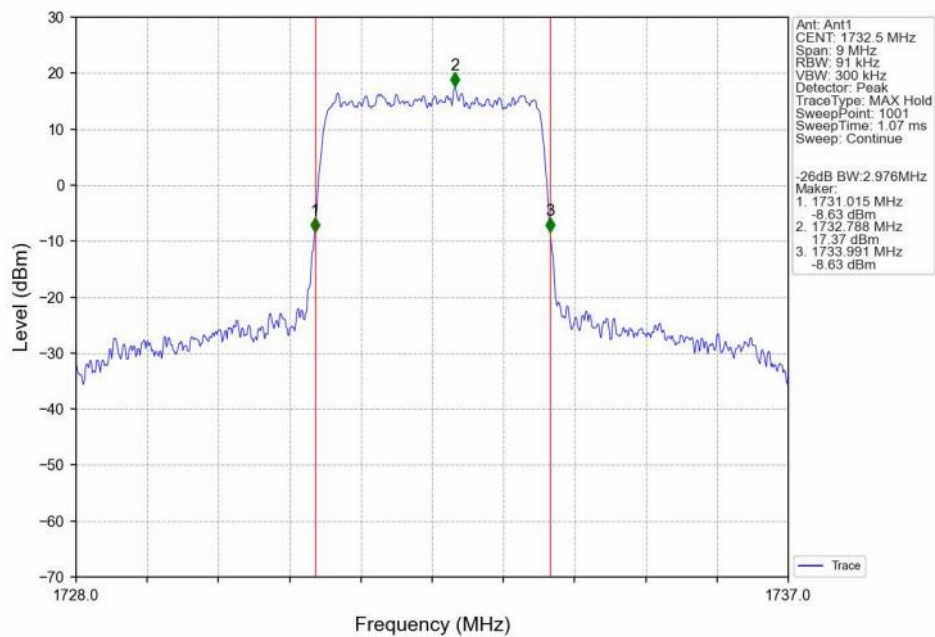
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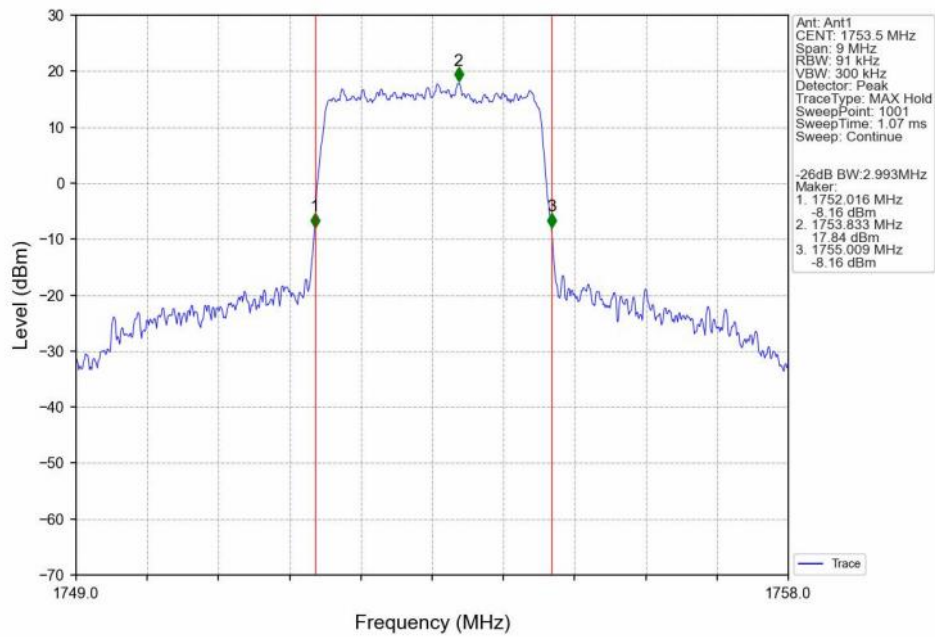
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



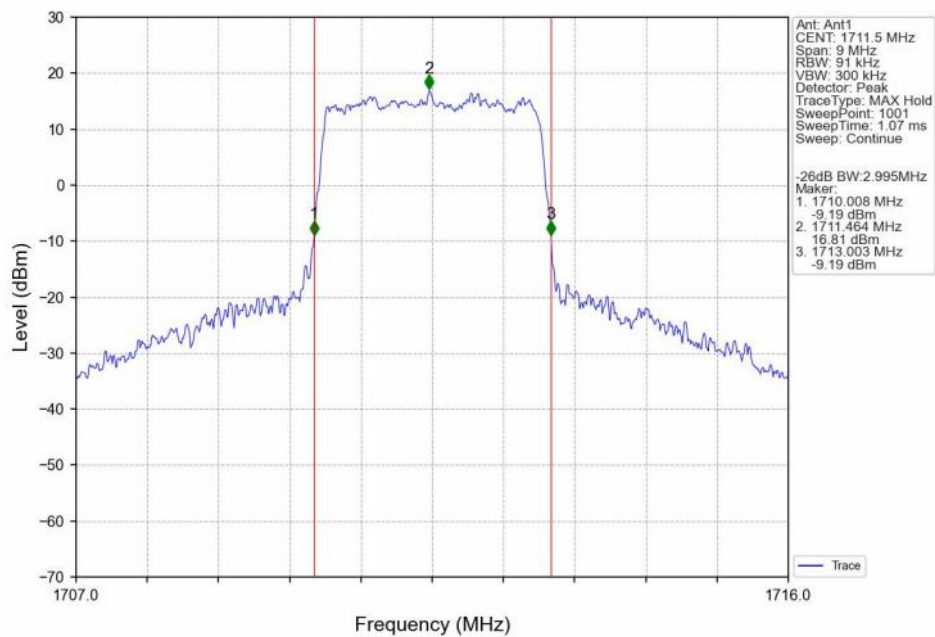
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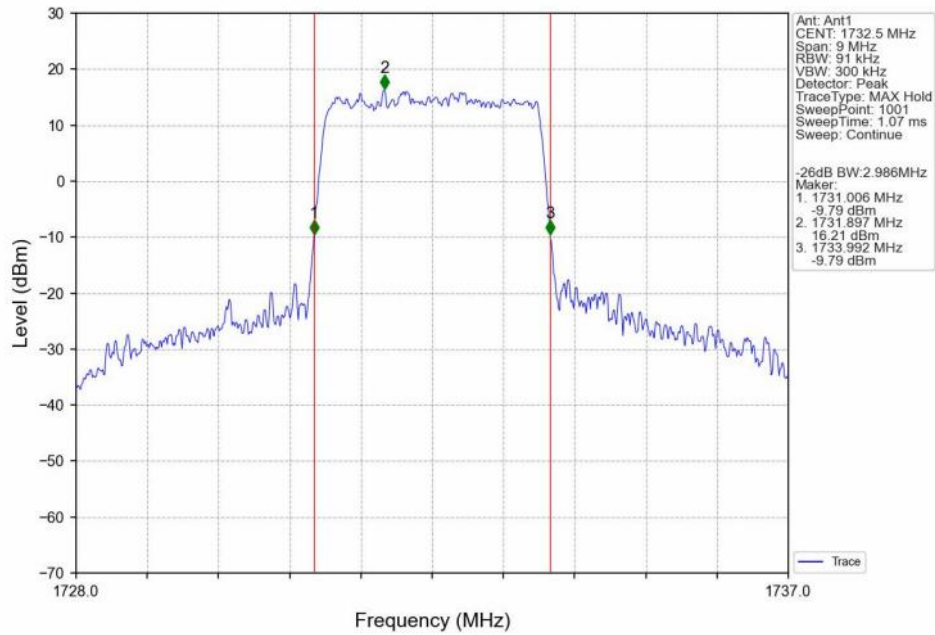
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV



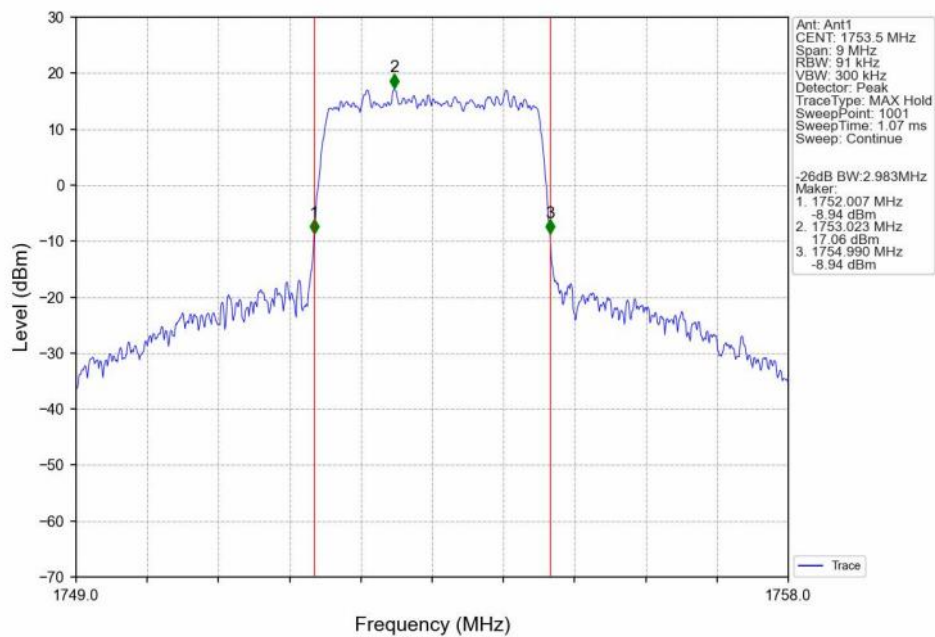
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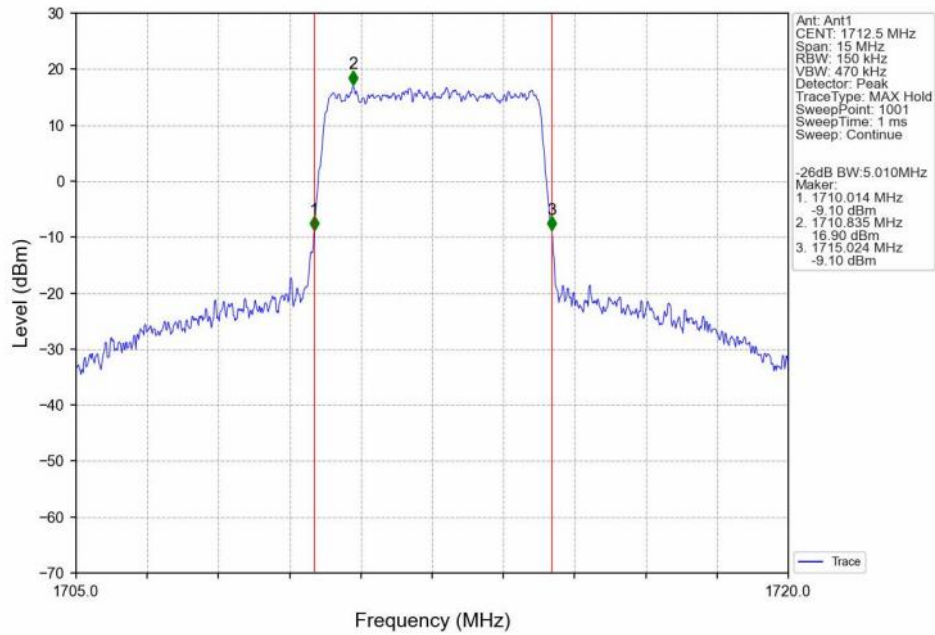
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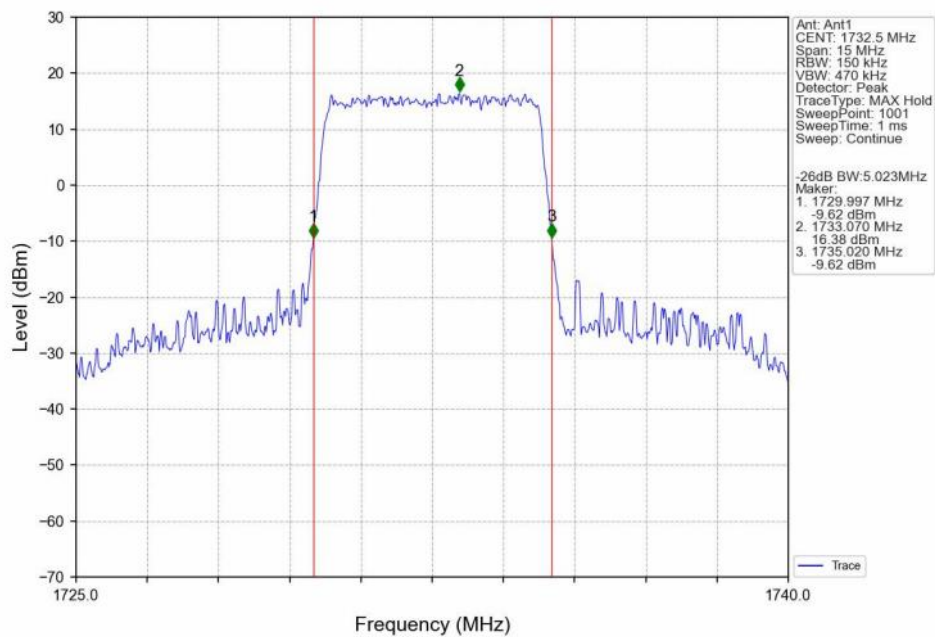
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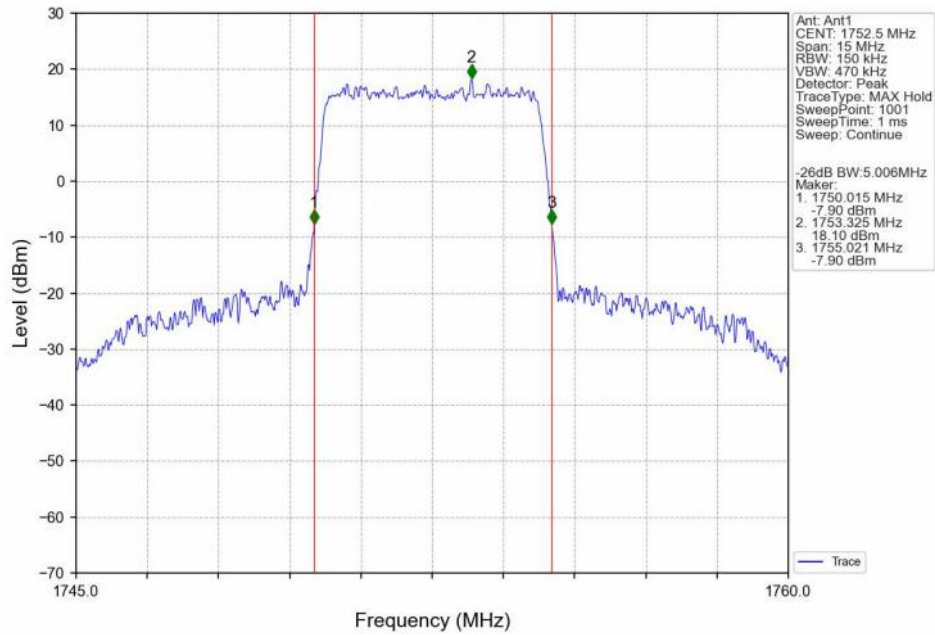
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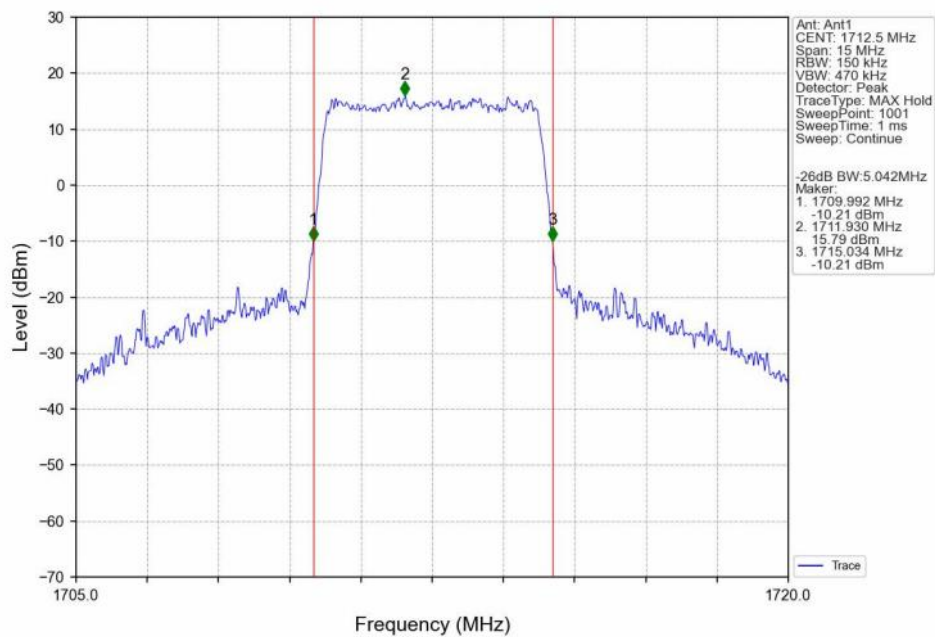
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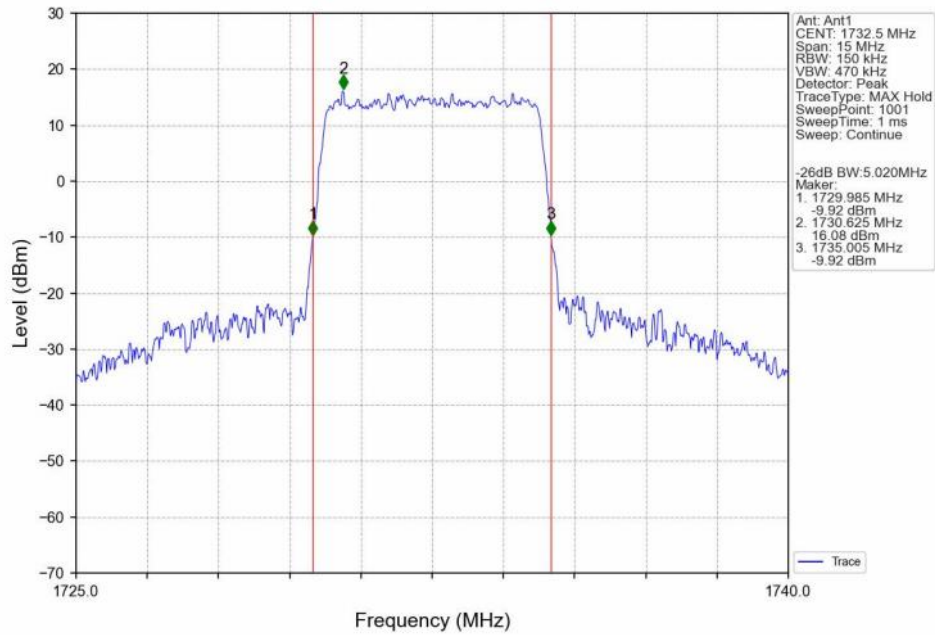
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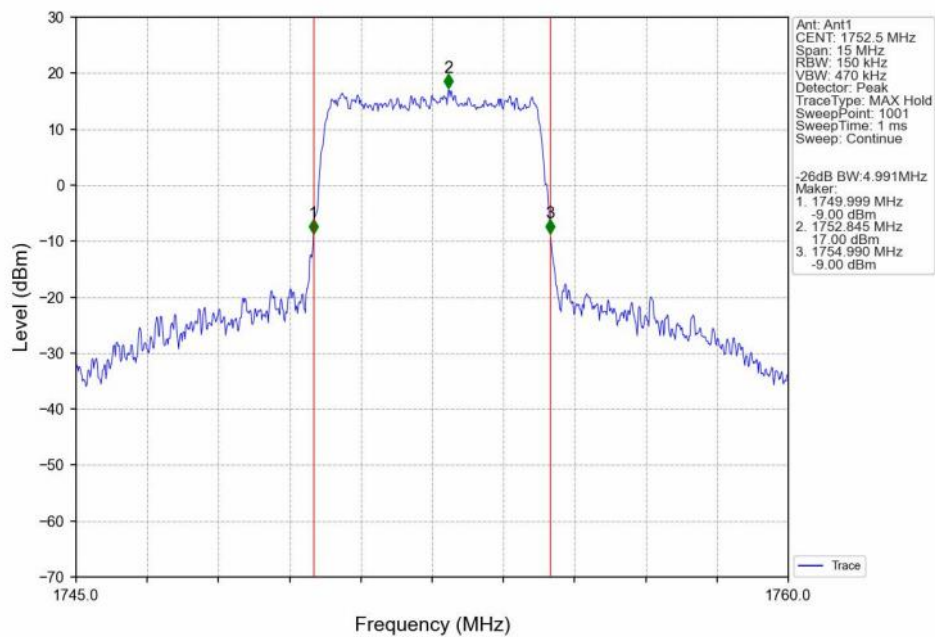
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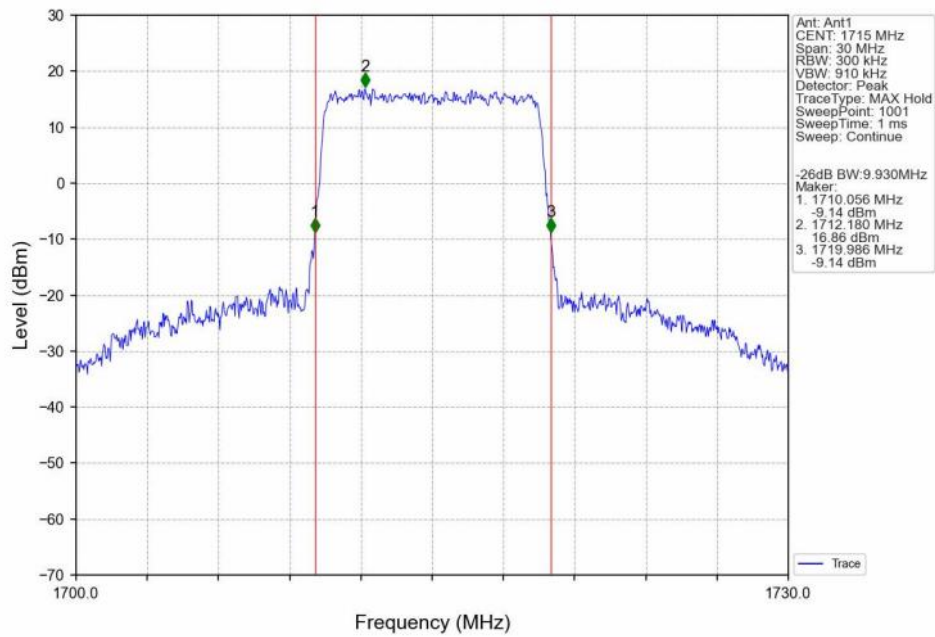
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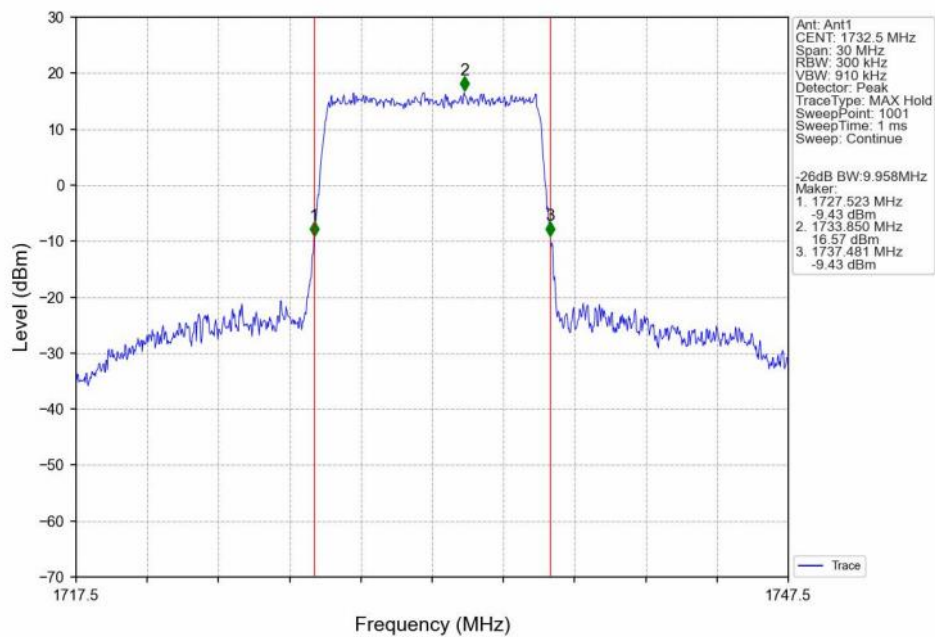
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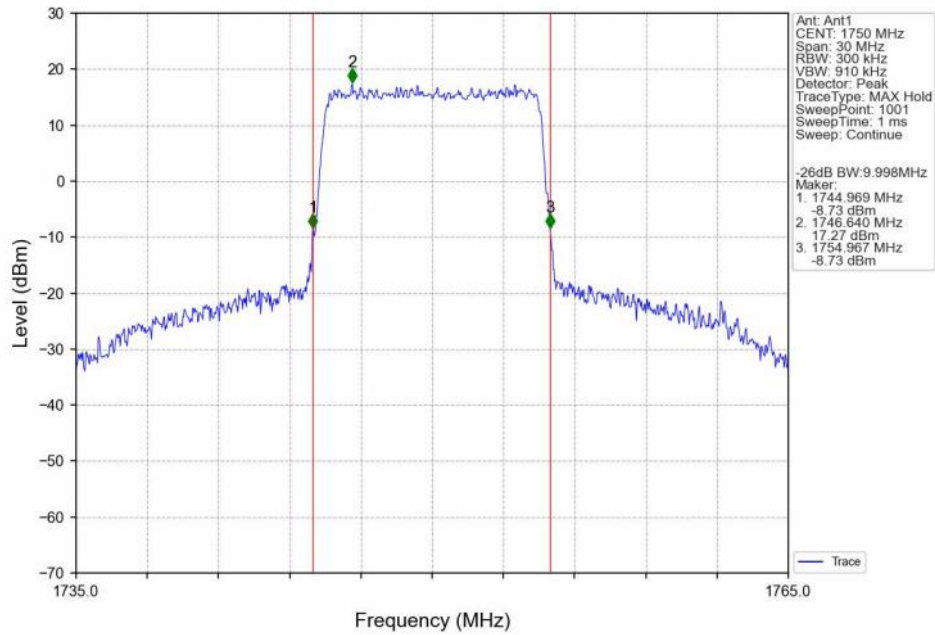
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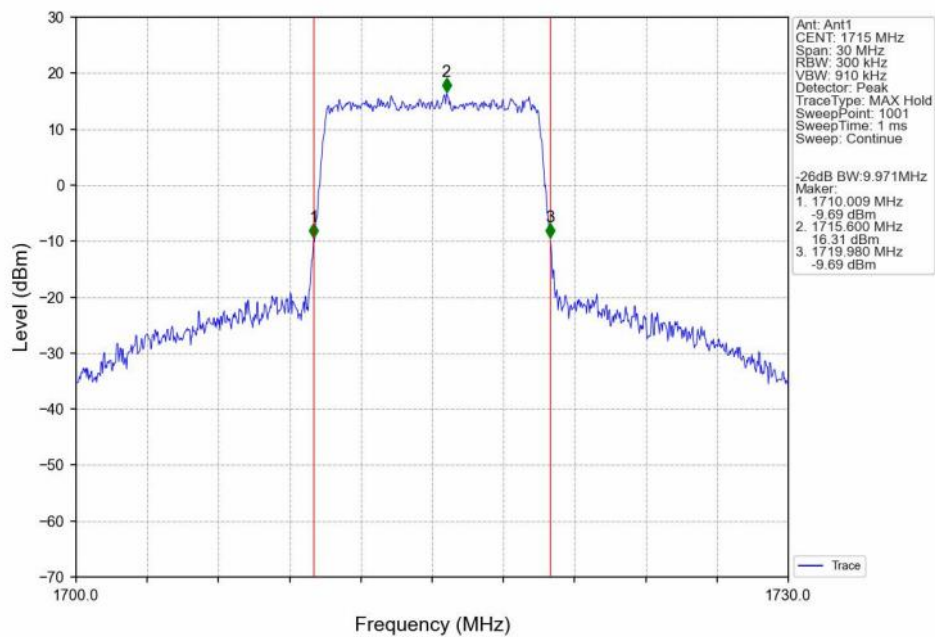
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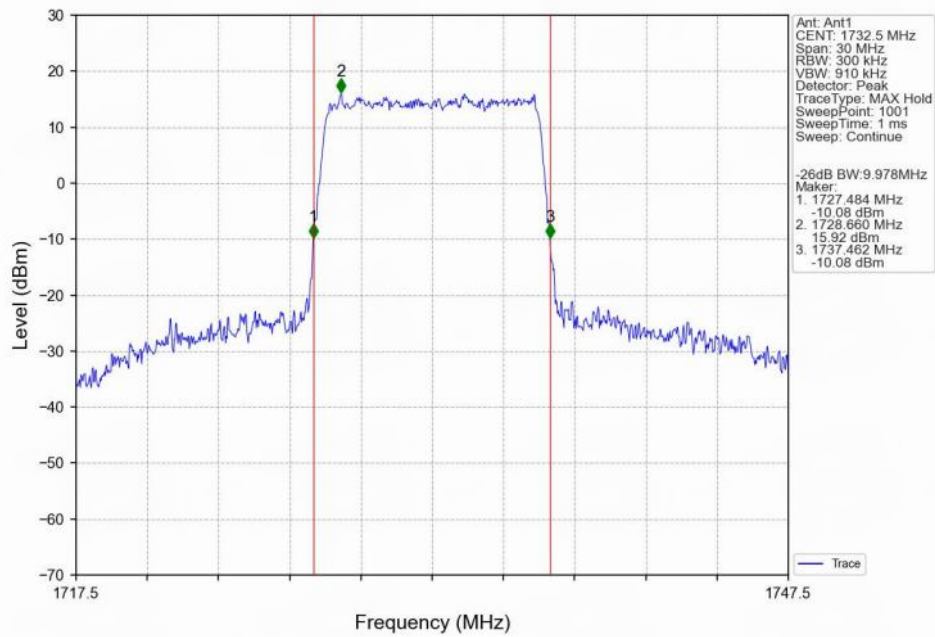
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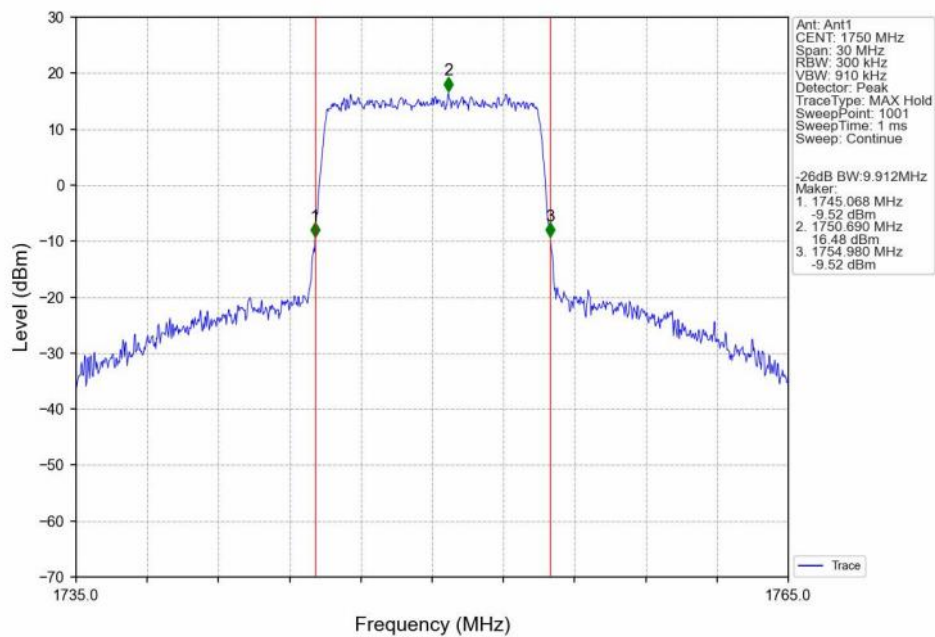
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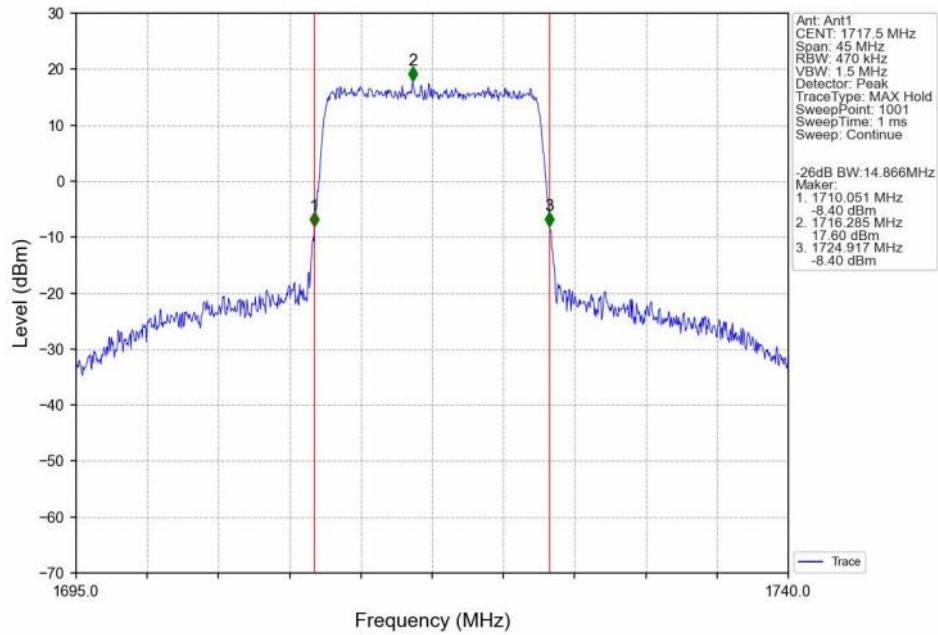
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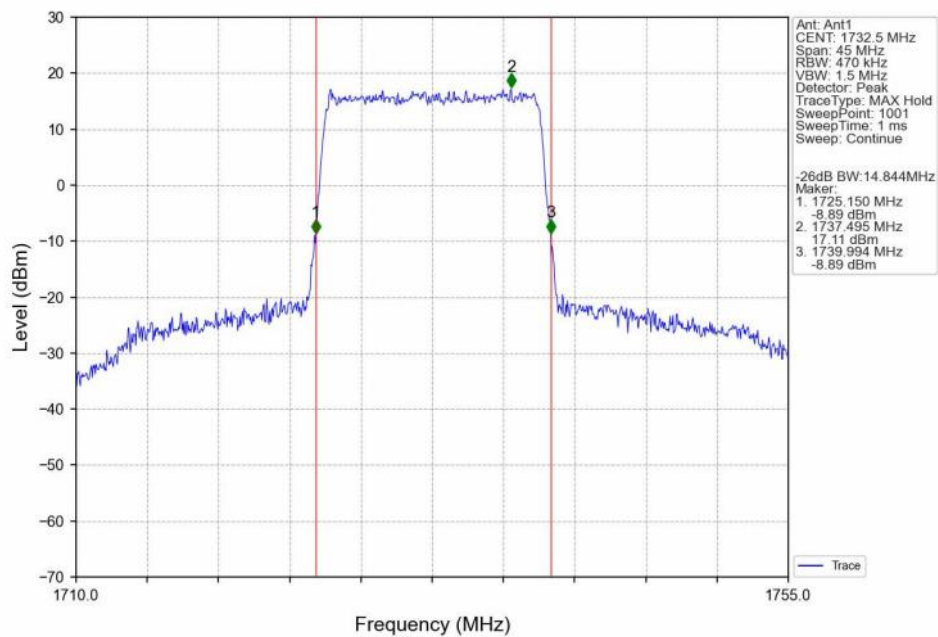
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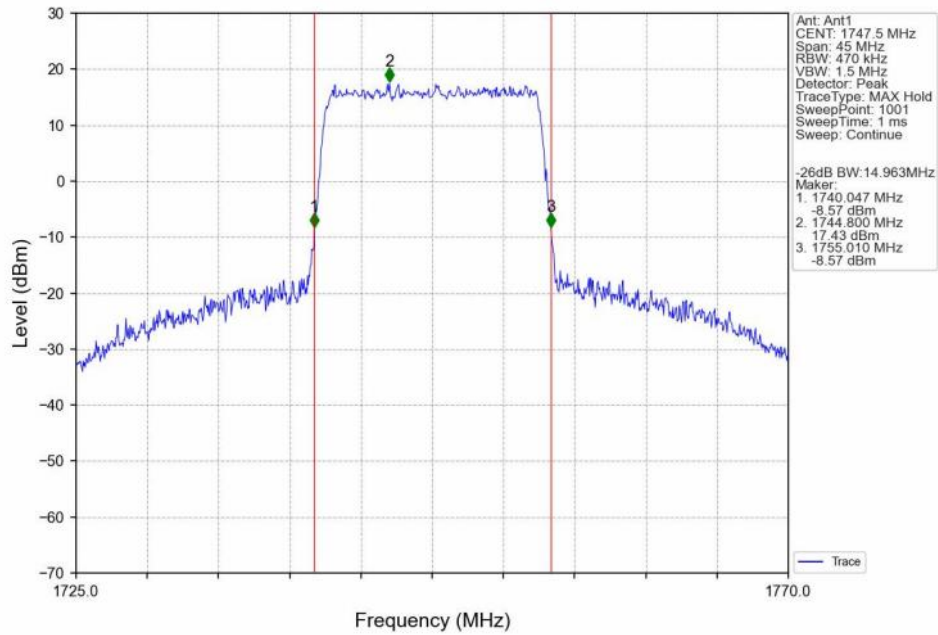
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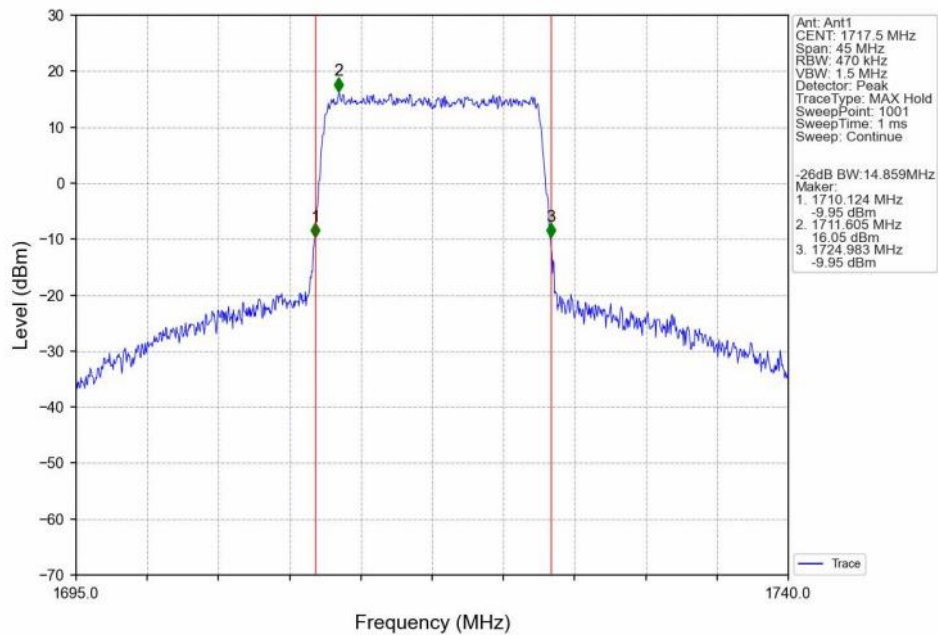
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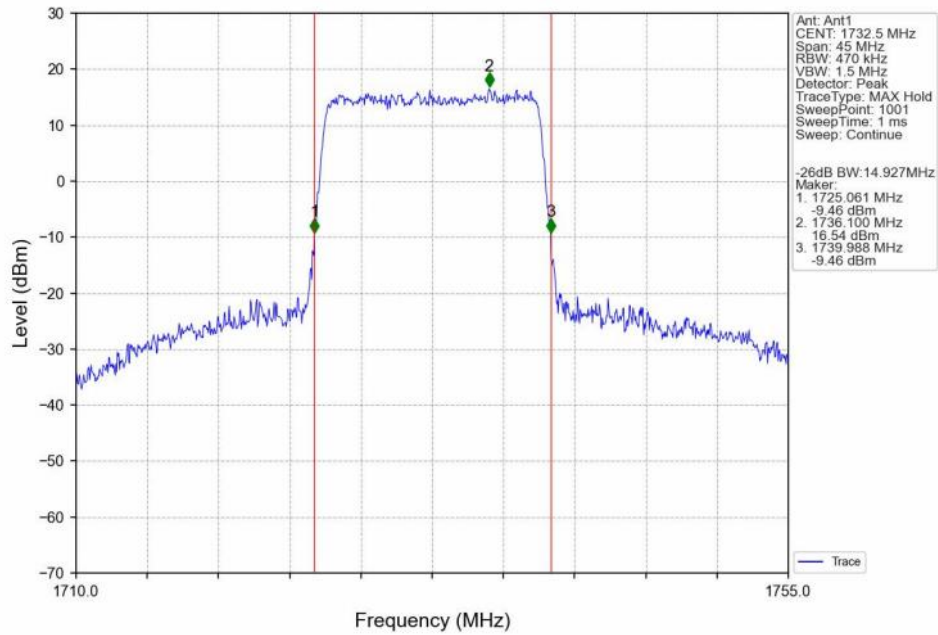
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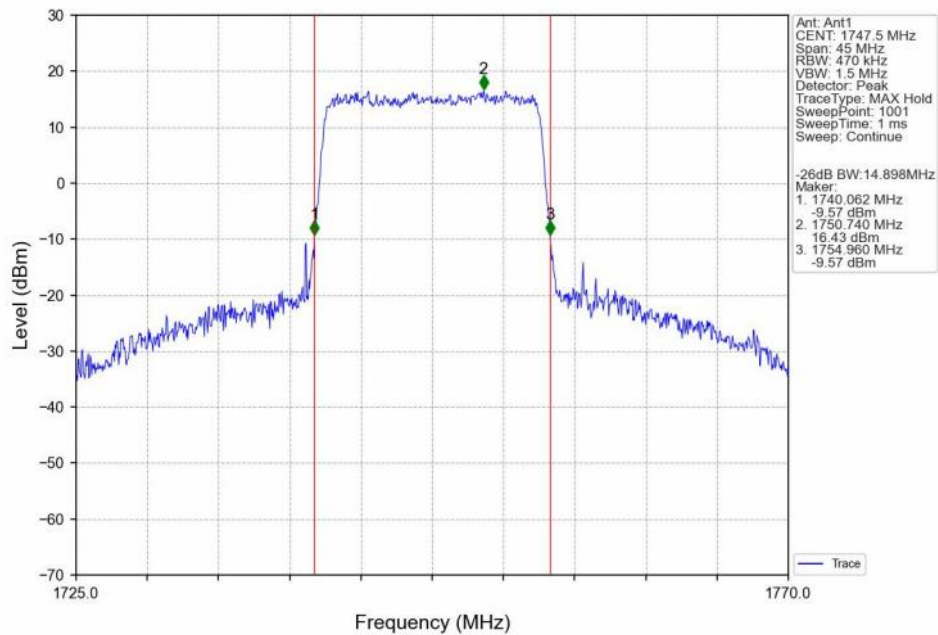
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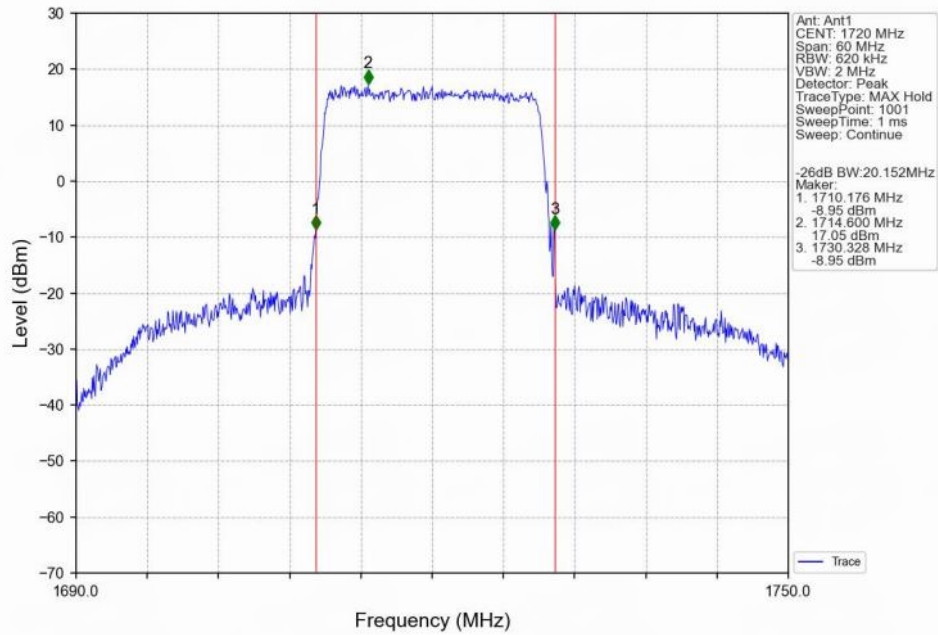
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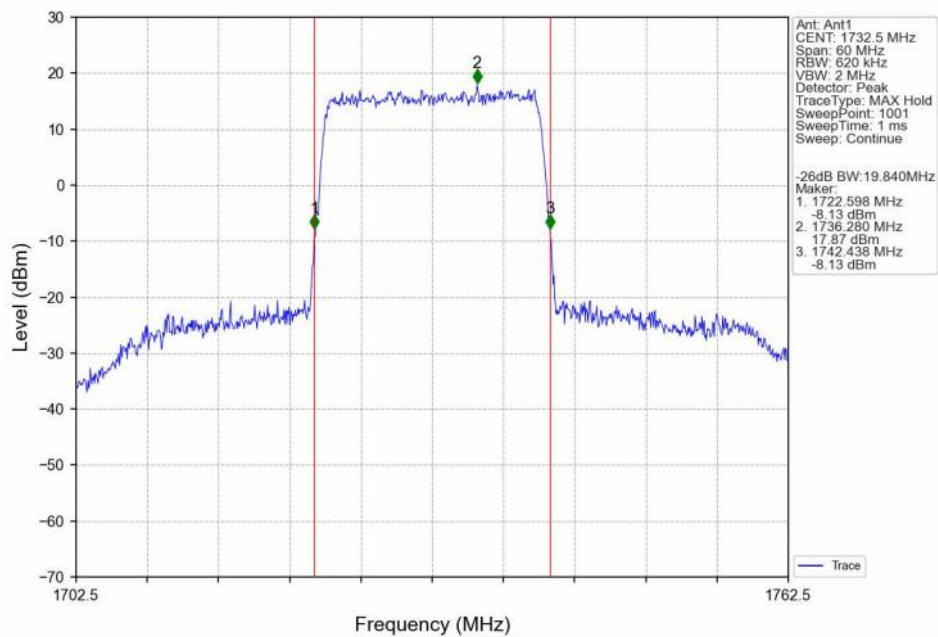
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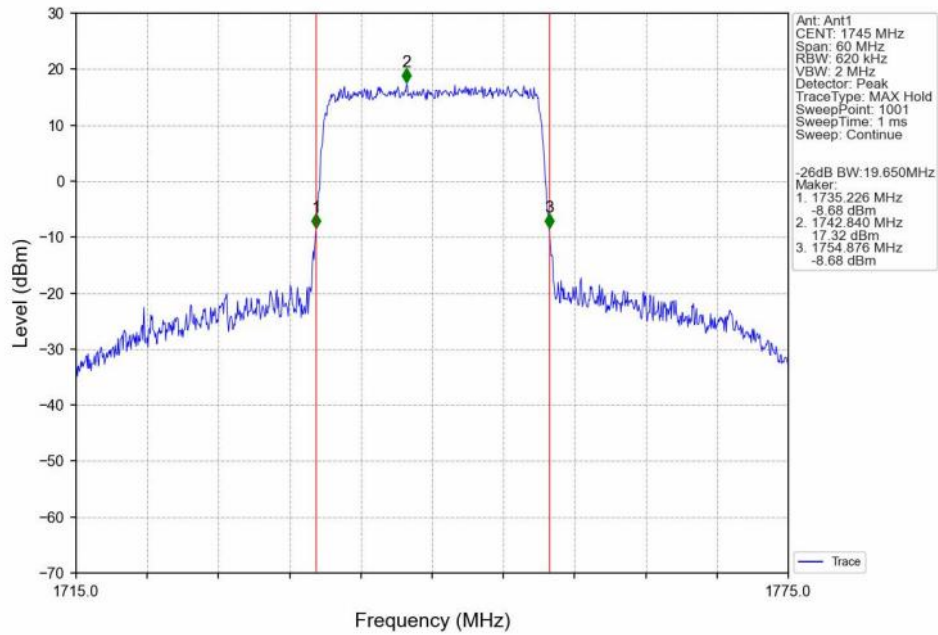
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTNV



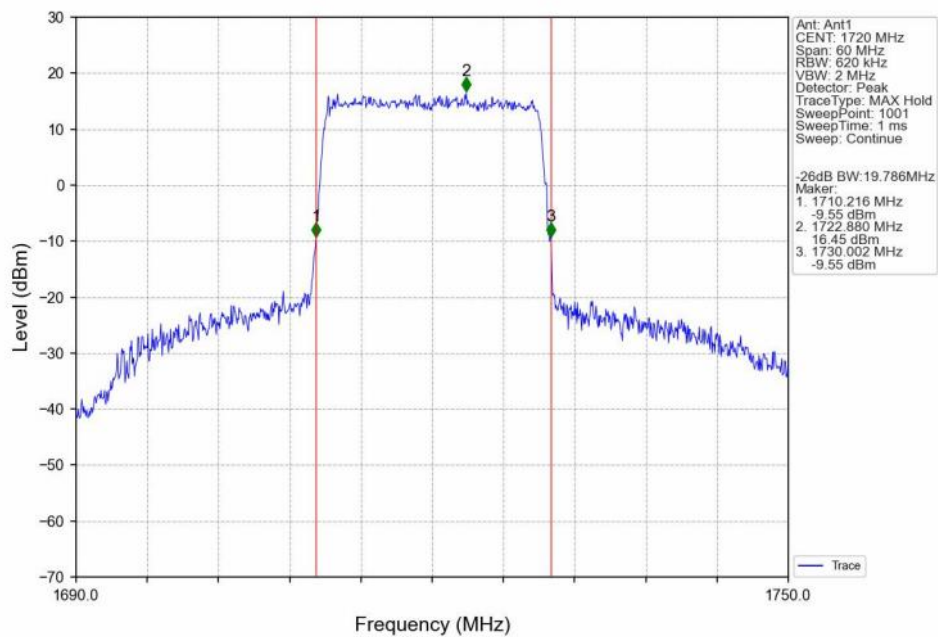
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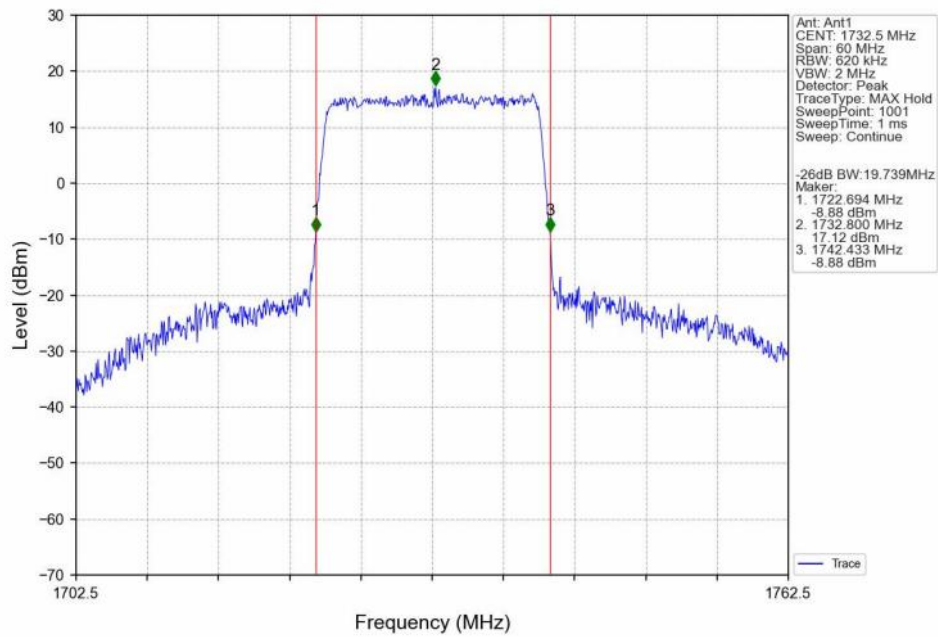
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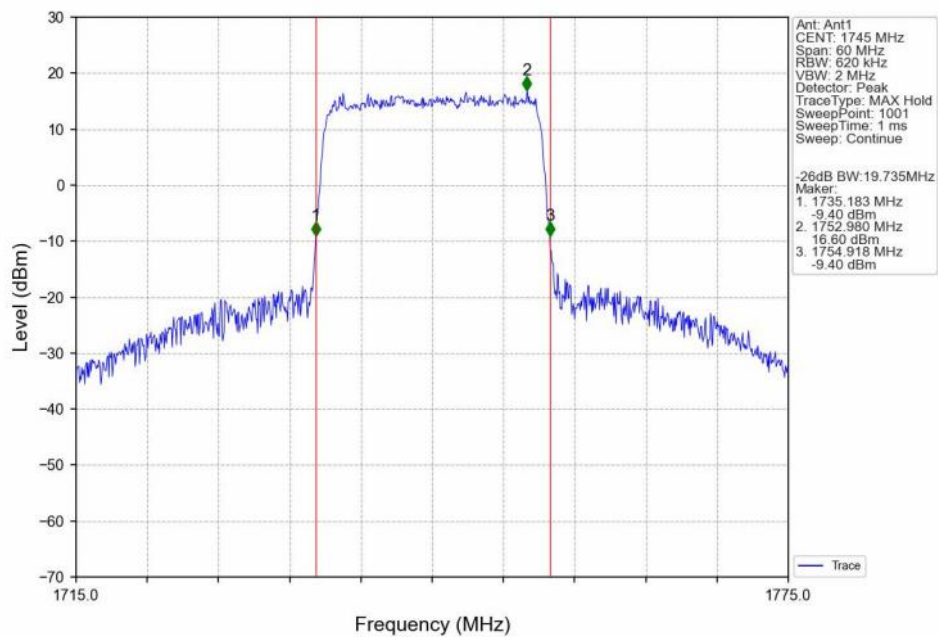
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



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	4.92	<=13	Pass
	1732.5	6	0	5.18	<=13	Pass
	1754.3	6	0	5.06	<=13	Pass
16QAM	1710.7	6	0	5.77	<=13	Pass
	1732.5	6	0	6.06	<=13	Pass
	1754.3	6	0	5.96	<=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	5.06	<=13	Pass
	1732.5	15	0	5.44	<=13	Pass
	1753.5	15	0	5.28	<=13	Pass
16QAM	1711.5	15	0	5.91	<=13	Pass
	1732.5	15	0	6.28	<=13	Pass
	1753.5	15	0	6.09	<=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	5.31	<=13	Pass
	1732.5	25	0	5.64	<=13	Pass
	1752.5	25	0	5.46	<=13	Pass
16QAM	1712.5	25	0	6.16	<=13	Pass
	1732.5	25	0	6.33	<=13	Pass
	1752.5	25	0	6.15	<=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	5.46	<=13	Pass
	1732.5	50	0	5.59	<=13	Pass
	1750	50	0	5.43	<=13	Pass
16QAM	1715	50	0	6.20	<=13	Pass
	1732.5	50	0	6.36	<=13	Pass
	1750	50	0	6.14	<=13	Pass

5.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz / NTNV						
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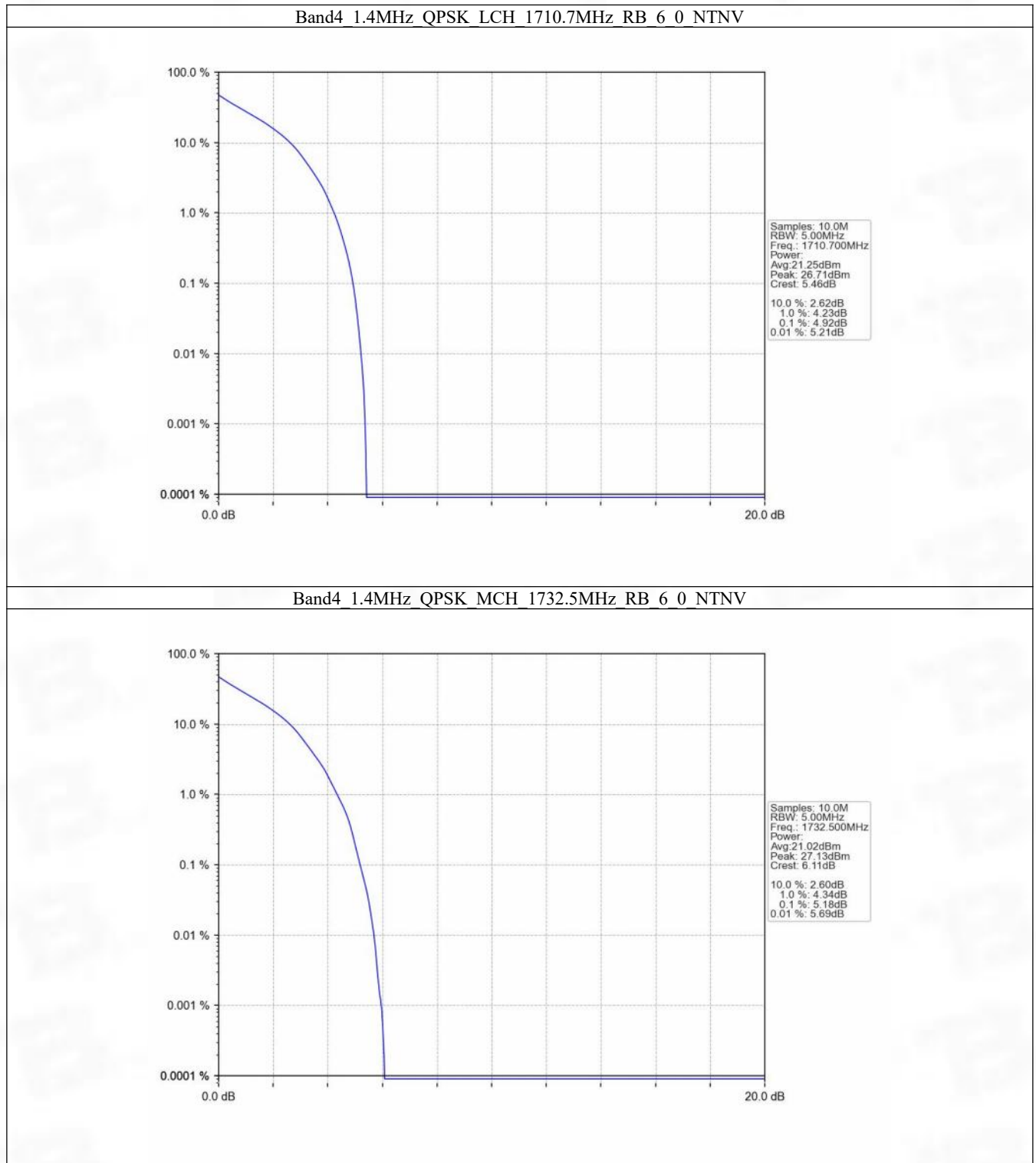
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.71	<=13	Pass
	1732.5	75	0	5.81	<=13	Pass
	1747.5	75	0	5.59	<=13	Pass
16QAM	1717.5	75	0	6.26	<=13	Pass
	1732.5	75	0	6.37	<=13	Pass
	1747.5	75	0	6.18	<=13	Pass

5.1.6 B4_20MHz

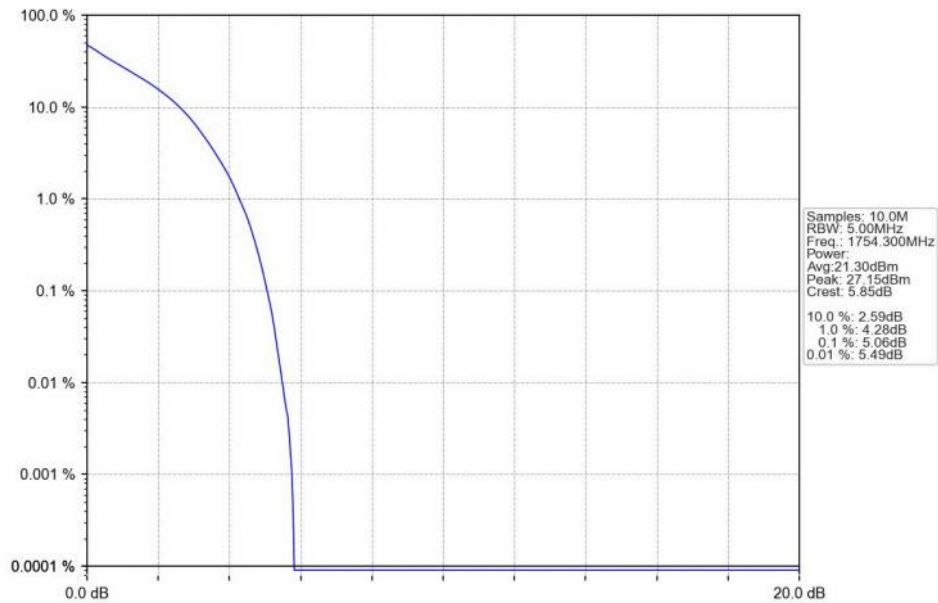
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.55	<=13	Pass
	1732.5	100	0	5.56	<=13	Pass
	1745	100	0	5.41	<=13	Pass
16QAM	1720	100	0	6.25	<=13	Pass
	1732.5	100	0	6.31	<=13	Pass
	1745	100	0	6.18	<=13	Pass

5.2 Test Graph

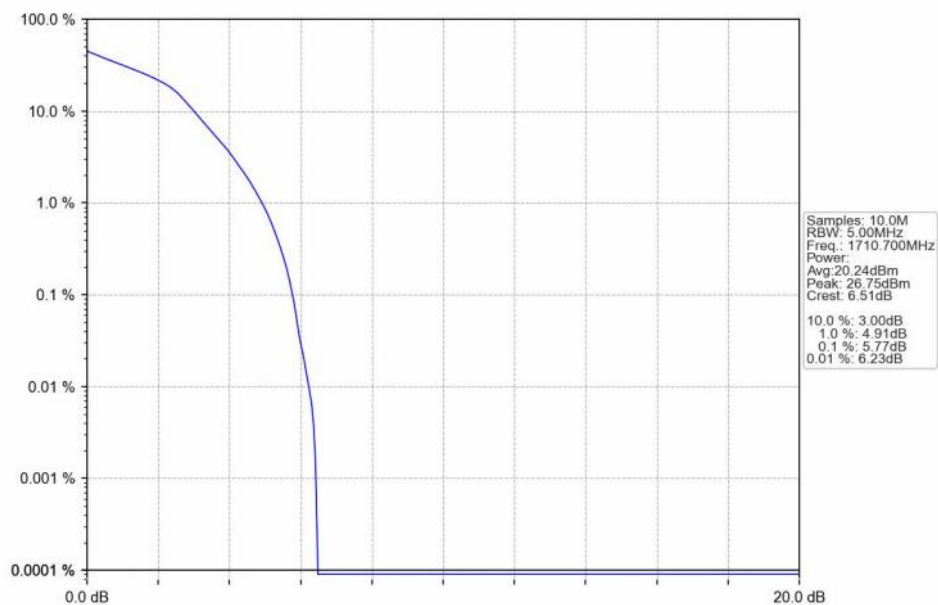
5.2.1 B4_1.4MHz



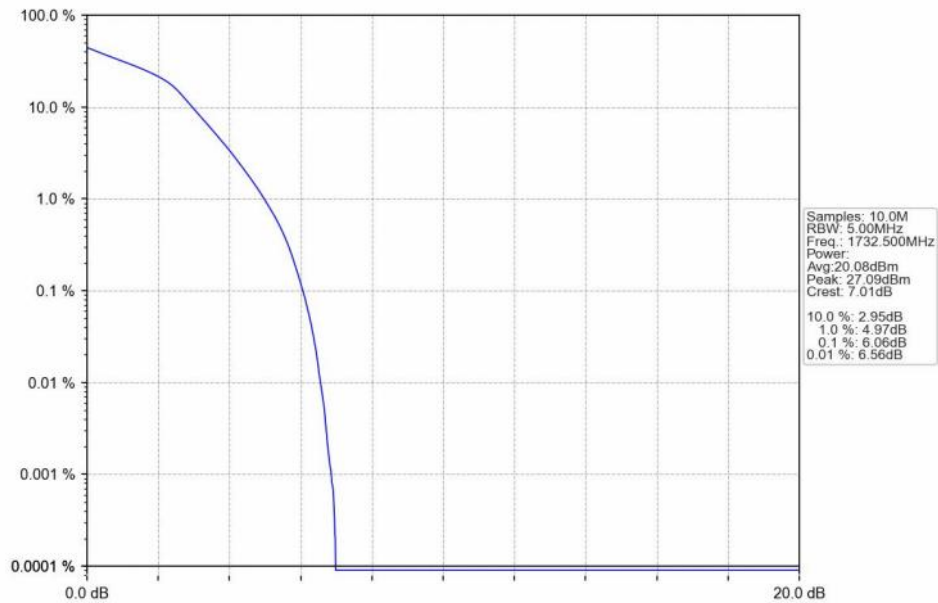
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



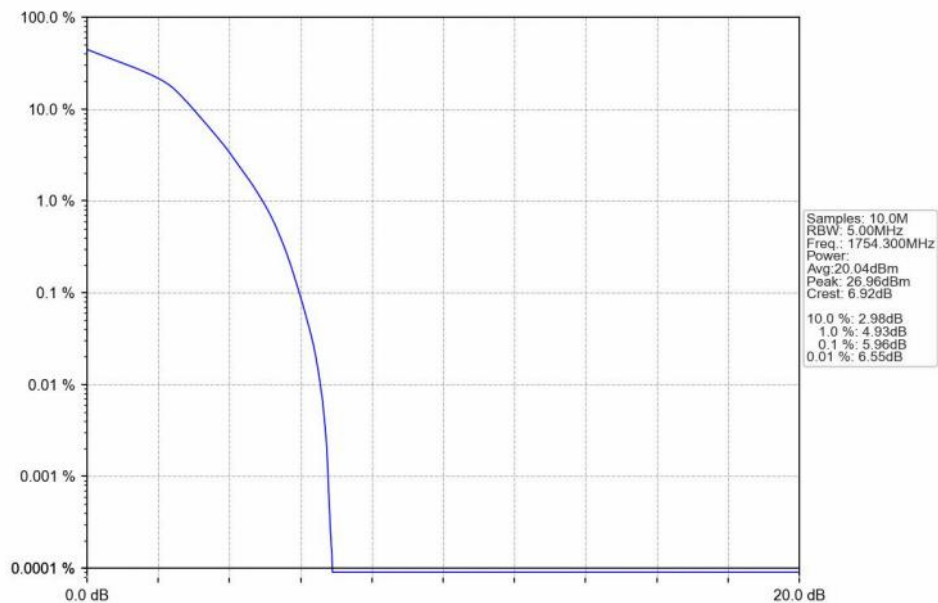
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



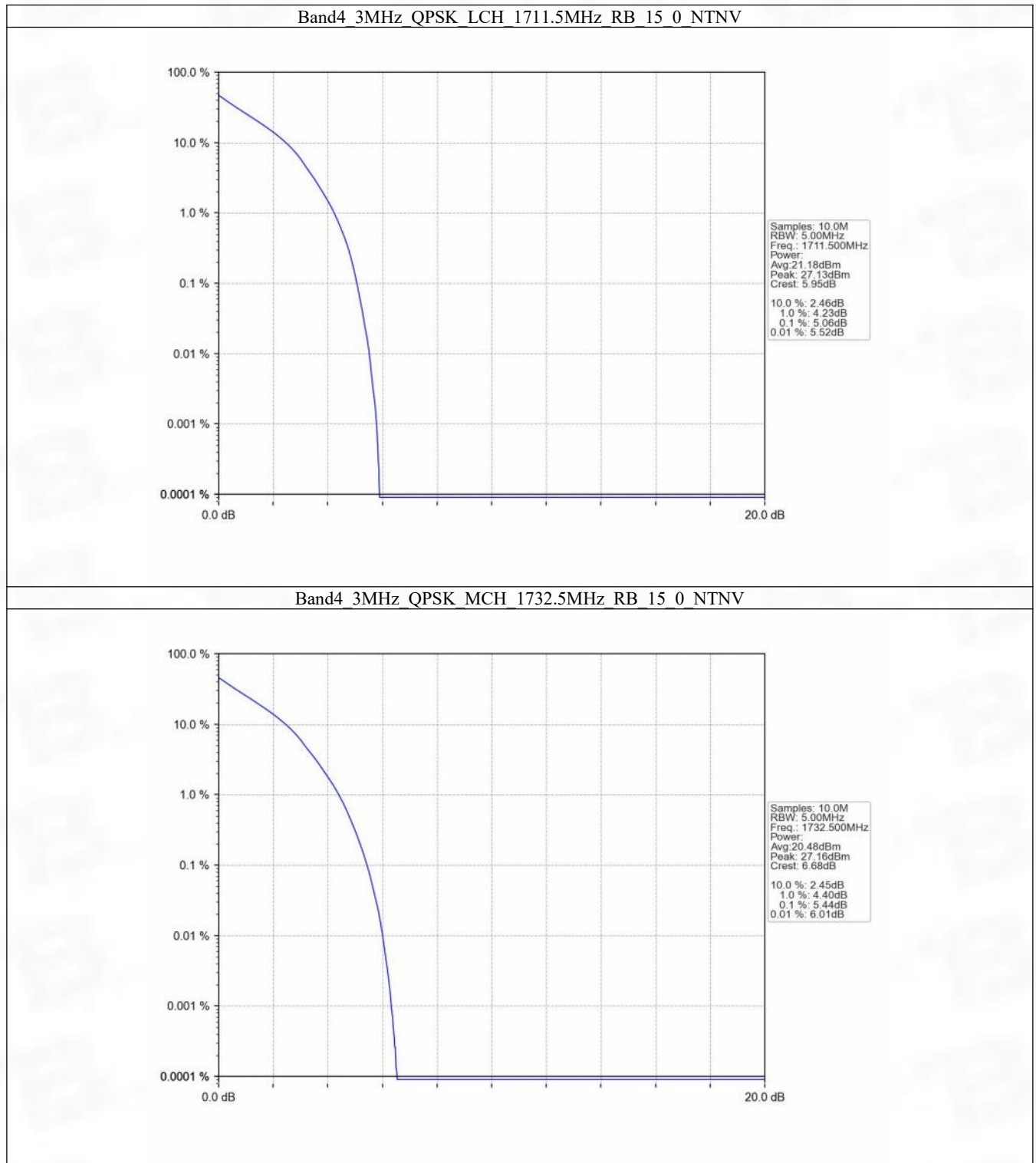
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTV



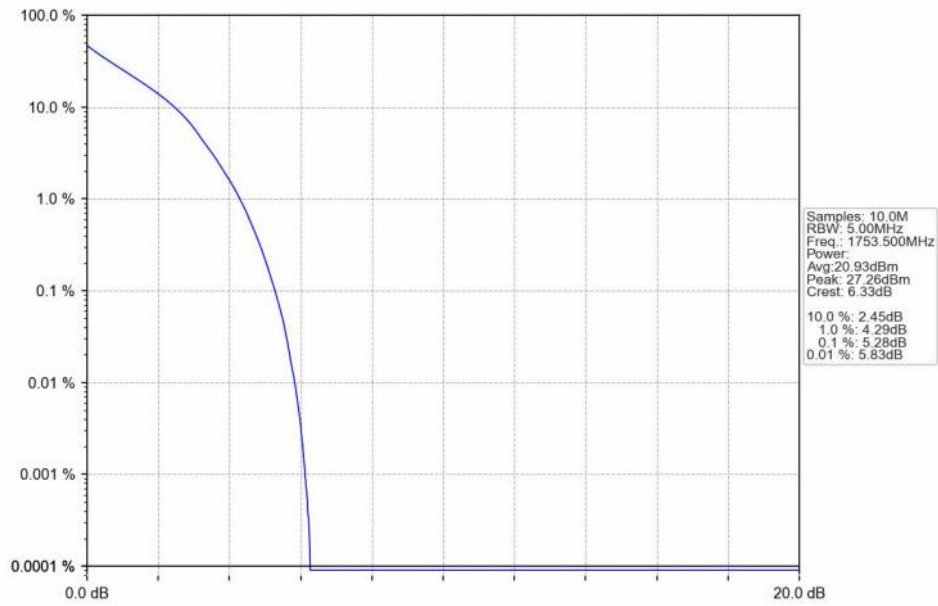
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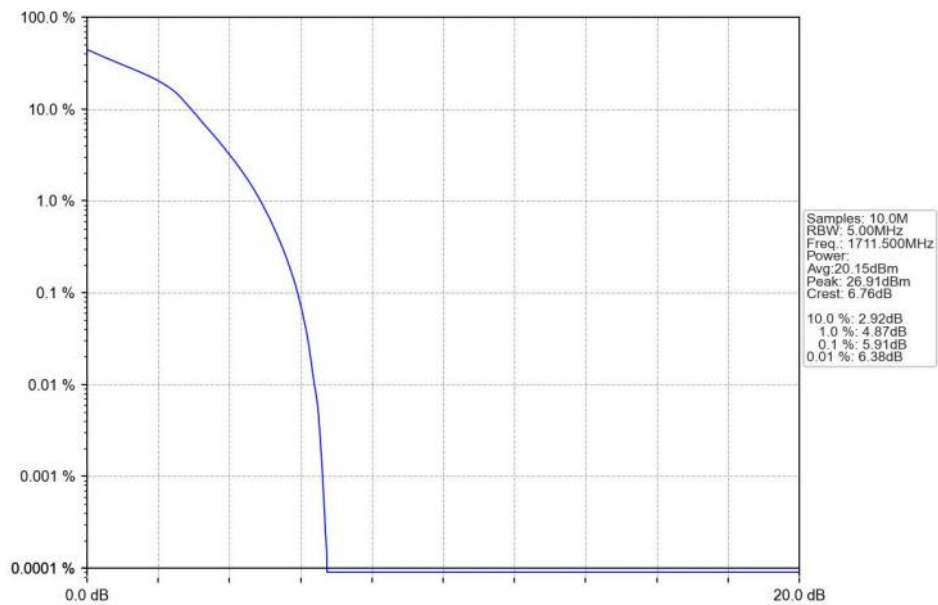
5.2.2 B4_3MHz



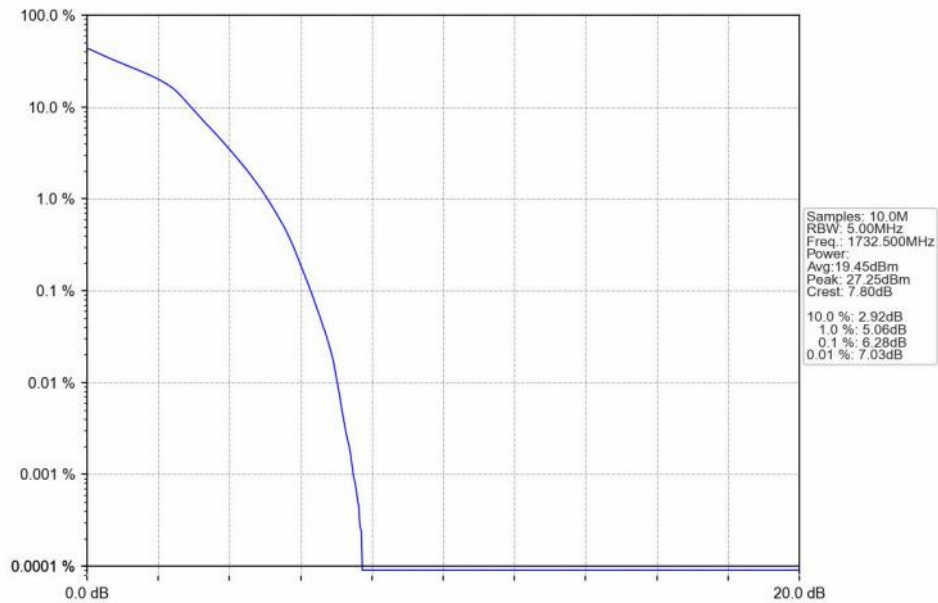
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



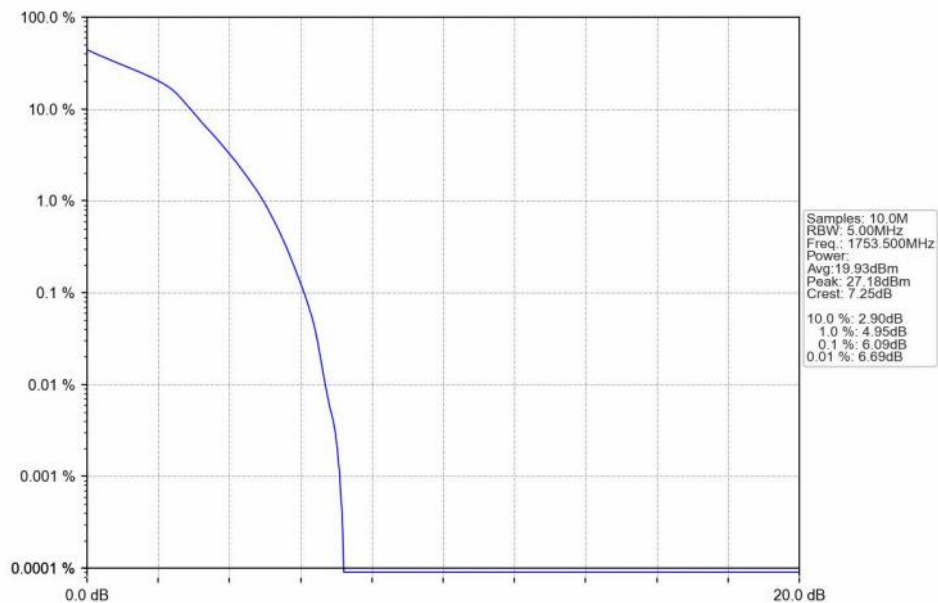
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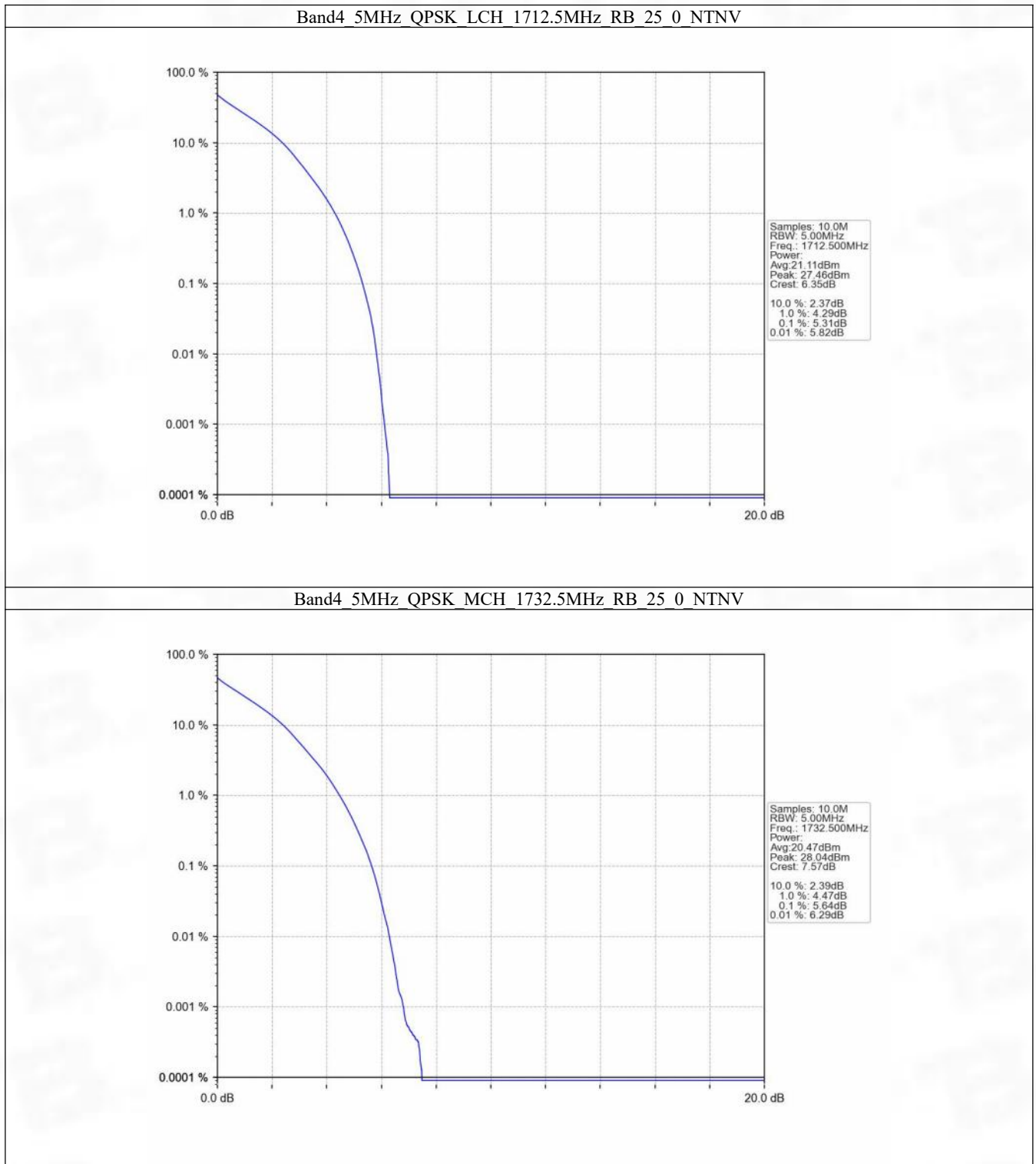
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



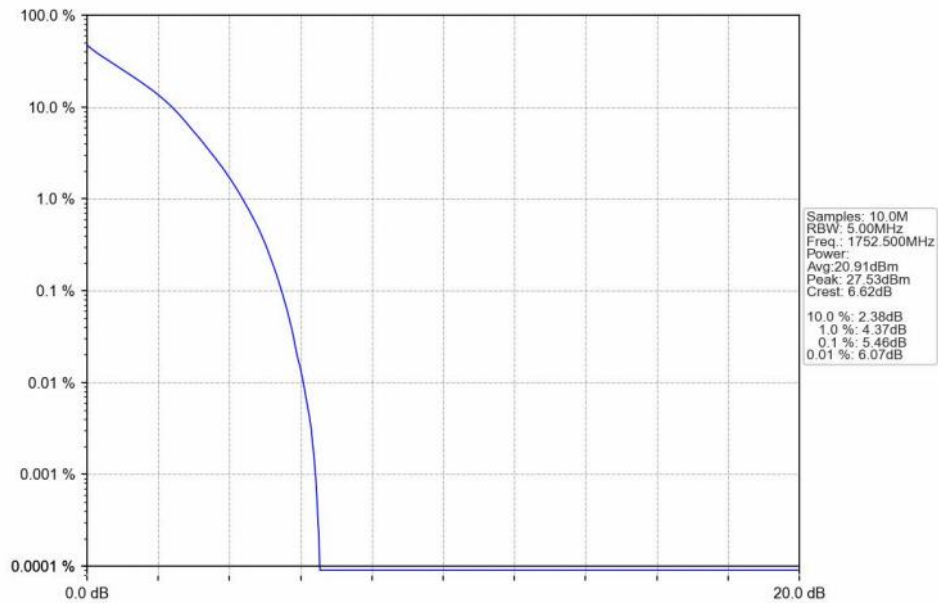
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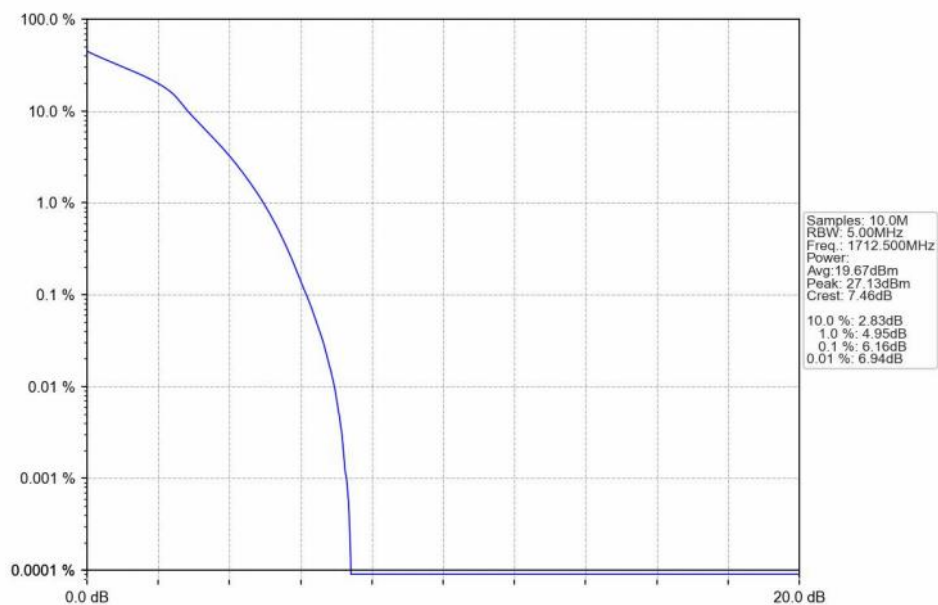
5.2.3 B4_5MHz



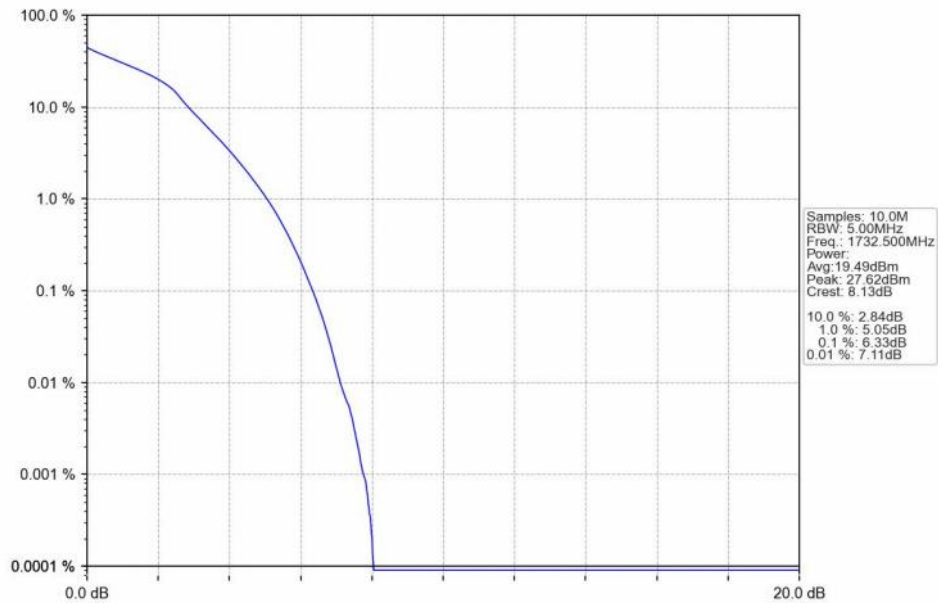
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



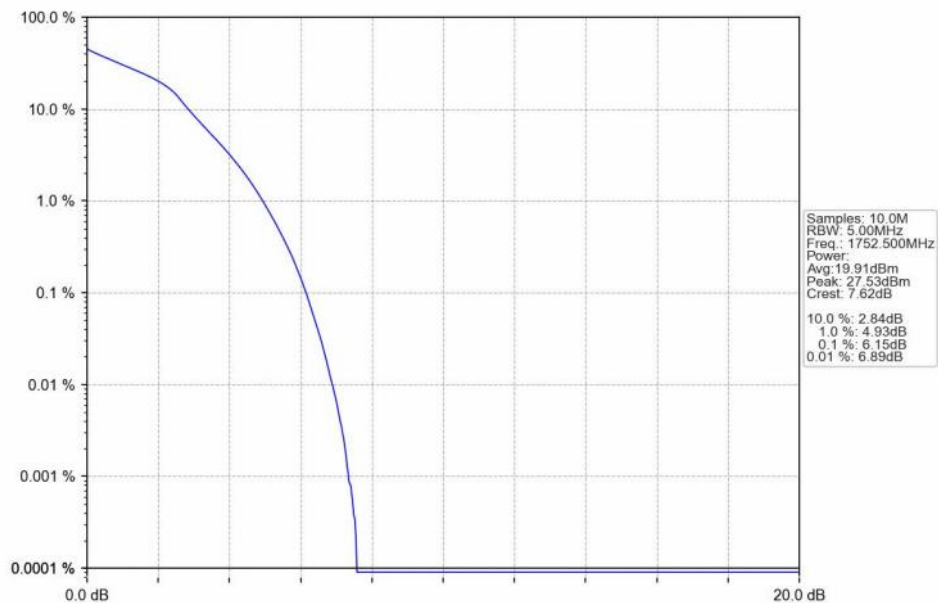
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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

