

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	21.49	-0.45	21.04	<=30	Pass
			2	21.53	-0.45	21.08	<=30	Pass
			5	21.54	-0.45	21.09	<=30	Pass
		3	0	21.55	-0.45	21.10	<=30	Pass
			2	21.63	-0.45	21.18	<=30	Pass
			3	21.57	-0.45	21.12	<=30	Pass
		6	0	20.43	-0.45	19.98	<=30	Pass
	1732.5	1	0	21.92	-0.45	21.47	<=30	Pass
			2	22.08	-0.45	21.63	<=30	Pass
			5	22.03	-0.45	21.58	<=30	Pass
		3	0	22.05	-0.45	21.60	<=30	Pass
			2	22.00	-0.45	21.55	<=30	Pass
			3	22.06	-0.45	21.61	<=30	Pass
		6	0	21.06	-0.45	20.61	<=30	Pass
	1754.3	1	0	22.05	-0.45	21.60	<=30	Pass
			2	22.17	-0.45	21.72	<=30	Pass
			5	22.21	-0.45	21.76	<=30	Pass
		3	0	22.31	-0.45	21.86	<=30	Pass
			2	22.28	-0.45	21.83	<=30	Pass
			3	22.23	-0.45	21.78	<=30	Pass
		6	0	21.34	-0.45	20.89	<=30	Pass
16QAM	1710.7	1	0	21.04	-0.45	20.59	<=30	Pass
			2	21.08	-0.45	20.63	<=30	Pass
			5	21.05	-0.45	20.60	<=30	Pass
		3	0	20.34	-0.45	19.89	<=30	Pass
			2	20.43	-0.45	19.98	<=30	Pass
			3	20.41	-0.45	19.96	<=30	Pass
		6	0	19.57	-0.45	19.12	<=30	Pass
	1732.5	1	0	21.03	-0.45	20.58	<=30	Pass
			2	21.08	-0.45	20.63	<=30	Pass
			5	21.07	-0.45	20.62	<=30	Pass
		3	0	20.84	-0.45	20.39	<=30	Pass
			2	20.81	-0.45	20.36	<=30	Pass
			3	20.86	-0.45	20.41	<=30	Pass
		6	0	20.10	-0.45	19.65	<=30	Pass
	1754.3	1	0	21.96	-0.45	21.51	<=30	Pass
			2	22.07	-0.45	21.62	<=30	Pass
			5	22.09	-0.45	21.64	<=30	Pass
		3	0	20.97	-0.45	20.52	<=30	Pass
			2	21.12	-0.45	20.67	<=30	Pass
			3	21.11	-0.45	20.66	<=30	Pass
		6	0	20.45	-0.45	20.00	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1711.5	1	0	21.48	-0.45	21.03	<=30	Pass	
			7	21.53	-0.45	21.08	<=30	Pass	
			14	21.55	-0.45	21.10	<=30	Pass	
		8	0	20.46	-0.45	20.01	<=30	Pass	
			4	20.41	-0.45	19.96	<=30	Pass	
			7	20.64	-0.45	20.19	<=30	Pass	
		15	0	20.52	-0.45	20.07	<=30	Pass	
		1732.5	1	0	21.90	-0.45	21.45	<=30	Pass
				7	21.97	-0.45	21.52	<=30	Pass
	14			21.97	-0.45	21.52	<=30	Pass	
	8		0	21.03	-0.45	20.58	<=30	Pass	
			4	21.03	-0.45	20.58	<=30	Pass	
			7	21.03	-0.45	20.58	<=30	Pass	
	15	0	20.97	-0.45	20.52	<=30	Pass		
	1753.5	1	0	22.11	-0.45	21.66	<=30	Pass	
			7	22.16	-0.45	21.71	<=30	Pass	
			14	22.22	-0.45	21.77	<=30	Pass	
		8	0	21.11	-0.45	20.66	<=30	Pass	
			4	21.14	-0.45	20.69	<=30	Pass	
			7	21.29	-0.45	20.84	<=30	Pass	
		15	0	21.14	-0.45	20.69	<=30	Pass	
16QAM		1711.5	1	0	20.50	-0.45	20.05	<=30	Pass
				7	20.53	-0.45	20.08	<=30	Pass
	14			20.62	-0.45	20.17	<=30	Pass	
	8		0	19.72	-0.45	19.27	<=30	Pass	
			4	19.76	-0.45	19.31	<=30	Pass	
			7	19.83	-0.45	19.38	<=30	Pass	
	15		0	19.60	-0.45	19.15	<=30	Pass	
	1732.5		1	0	22.22	-0.45	21.77	<=30	Pass
				7	22.23	-0.45	21.78	<=30	Pass
		14		22.23	-0.45	21.78	<=30	Pass	
		8	0	20.12	-0.45	19.67	<=30	Pass	
			4	20.17	-0.45	19.72	<=30	Pass	
			7	20.18	-0.45	19.73	<=30	Pass	
	15	0	20.09	-0.45	19.64	<=30	Pass		
	1753.5	1	0	21.77	-0.45	21.32	<=30	Pass	
			7	21.77	-0.45	21.32	<=30	Pass	
			14	21.93	-0.45	21.48	<=30	Pass	
		8	0	20.65	-0.45	20.20	<=30	Pass	
			4	20.71	-0.45	20.26	<=30	Pass	
			7	20.47	-0.45	20.02	<=30	Pass	
		15	0	20.53	-0.45	20.08	<=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	21.35	-0.45	20.90	<=30	Pass
			13	21.50	-0.45	21.05	<=30	Pass
			24	21.51	-0.45	21.06	<=30	Pass
		12	0	20.53	-0.45	20.08	<=30	Pass
			6	20.69	-0.45	20.24	<=30	Pass
			13	20.67	-0.45	20.22	<=30	Pass

16QAM	1732.5	1	25	0	20.65	-0.45	20.20	<=30	Pass
			1	0	21.93	-0.45	21.48	<=30	Pass
				13	21.97	-0.45	21.52	<=30	Pass
		12	1	24	22.00	-0.45	21.55	<=30	Pass
				0	21.00	-0.45	20.55	<=30	Pass
			12	6	21.04	-0.45	20.59	<=30	Pass
				13	20.98	-0.45	20.53	<=30	Pass
		25	1	0	21.07	-0.45	20.62	<=30	Pass
				0	22.13	-0.45	21.68	<=30	Pass
	1752.5	1	1	13	22.08	-0.45	21.63	<=30	Pass
				24	22.20	-0.45	21.75	<=30	Pass
			12	0	21.23	-0.45	20.78	<=30	Pass
				6	21.06	-0.45	20.61	<=30	Pass
		25	1	13	21.12	-0.45	20.67	<=30	Pass
				0	21.04	-0.45	20.59	<=30	Pass
			12	0	21.05	-0.45	20.60	<=30	Pass
				13	21.19	-0.45	20.74	<=30	Pass
16QAM	1712.5	1	1	24	21.20	-0.45	20.75	<=30	Pass
				0	19.55	-0.45	19.10	<=30	Pass
		12	1	6	19.65	-0.45	19.20	<=30	Pass
				13	19.68	-0.45	19.23	<=30	Pass
		25	1	0	19.71	-0.45	19.26	<=30	Pass
				0	21.45	-0.45	21.00	<=30	Pass
	1732.5	1	1	13	21.50	-0.45	21.05	<=30	Pass
				24	21.43	-0.45	20.98	<=30	Pass
		12	1	0	19.98	-0.45	19.53	<=30	Pass
				6	19.98	-0.45	19.53	<=30	Pass
		25	1	13	19.94	-0.45	19.49	<=30	Pass
				0	20.03	-0.45	19.58	<=30	Pass
	1752.5	1	1	0	21.47	-0.45	21.02	<=30	Pass
				13	21.44	-0.45	20.99	<=30	Pass
		12	1	24	21.58	-0.45	21.13	<=30	Pass
				0	20.10	-0.45	19.65	<=30	Pass
		25	1	6	20.33	-0.45	19.88	<=30	Pass
				13	20.33	-0.45	19.88	<=30	Pass
			12	0	20.30	-0.45	19.85	<=30	Pass
				0	20.30	-0.45	19.85	<=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	21.50	-0.45	21.05	<=30	Pass
			25	21.64	-0.45	21.19	<=30	Pass
			49	21.69	-0.45	21.24	<=30	Pass
		25	0	20.69	-0.45	20.24	<=30	Pass
			13	20.70	-0.45	20.25	<=30	Pass
			25	20.68	-0.45	20.23	<=30	Pass
		50	0	20.67	-0.45	20.22	<=30	Pass
			0	21.99	-0.45	21.54	<=30	Pass
			25	22.07	-0.45	21.62	<=30	Pass
	1732.5	1	49	22.11	-0.45	21.66	<=30	Pass
			0	20.98	-0.45	20.53	<=30	Pass
			13	20.99	-0.45	20.54	<=30	Pass
		25	25	21.02	-0.45	20.57	<=30	Pass
			0	21.04	-0.45	20.59	<=30	Pass
			0	22.04	-0.45	21.59	<=30	Pass
	1750	1	0	22.04	-0.45	21.59	<=30	Pass

16QAM		25	25	22.26	-0.45	21.81	<=30	Pass
			49	22.18	-0.45	21.73	<=30	Pass
			0	21.10	-0.45	20.65	<=30	Pass
			13	21.33	-0.45	20.88	<=30	Pass
			25	21.00	-0.45	20.55	<=30	Pass
	50	0	21.39	-0.45	20.94	<=30	Pass	Pass
			20.50	-0.45	20.05	<=30	Pass	Pass
			20.64	-0.45	20.19	<=30	Pass	Pass
			20.74	-0.45	20.29	<=30	Pass	Pass
			19.81	-0.45	19.36	<=30	Pass	Pass
	25	13	20.13	-0.45	19.68	<=30	Pass	Pass
			19.83	-0.45	19.38	<=30	Pass	Pass
			19.97	-0.45	19.52	<=30	Pass	Pass
			22.28	-0.45	21.83	<=30	Pass	Pass
			22.28	-0.45	21.83	<=30	Pass	Pass
	1732.5	1	22.30	-0.45	21.85	<=30	Pass	Pass
			20.10	-0.45	19.65	<=30	Pass	Pass
			20.14	-0.45	19.69	<=30	Pass	Pass
			20.15	-0.45	19.70	<=30	Pass	Pass
			20.14	-0.45	19.69	<=30	Pass	Pass
	1750	1	21.79	-0.45	21.34	<=30	Pass	Pass
			21.90	-0.45	21.45	<=30	Pass	Pass
			21.95	-0.45	21.50	<=30	Pass	Pass
			20.24	-0.45	19.79	<=30	Pass	Pass
			20.54	-0.45	20.09	<=30	Pass	Pass
		25	20.41	-0.45	19.96	<=30	Pass	Pass
			20.58	-0.45	20.13	<=30	Pass	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	21.38	-0.45	20.93	<=30	Pass
			38	21.53	-0.45	21.08	<=30	Pass
			74	21.72	-0.45	21.27	<=30	Pass
		36	0	20.55	-0.45	20.10	<=30	Pass
			18	20.67	-0.45	20.22	<=30	Pass
			39	20.77	-0.45	20.32	<=30	Pass
		75	0	20.64	-0.45	20.19	<=30	Pass
	1732.5	1	0	21.99	-0.45	21.54	<=30	Pass
			38	22.10	-0.45	21.65	<=30	Pass
			74	22.17	-0.45	21.72	<=30	Pass
		36	0	20.99	-0.45	20.54	<=30	Pass
			18	21.02	-0.45	20.57	<=30	Pass
			39	20.96	-0.45	20.51	<=30	Pass
		75	0	21.03	-0.45	20.58	<=30	Pass
	1747.5	1	0	22.05	-0.45	21.60	<=30	Pass
			38	22.18	-0.45	21.73	<=30	Pass
			74	22.21	-0.45	21.76	<=30	Pass
		36	0	21.01	-0.45	20.56	<=30	Pass
			18	21.11	-0.45	20.66	<=30	Pass
			39	21.27	-0.45	20.82	<=30	Pass
		75	0	21.20	-0.45	20.75	<=30	Pass
16QAM	1717.5	1	0	21.12	-0.45	20.67	<=30	Pass
			38	21.37	-0.45	20.92	<=30	Pass
			74	21.52	-0.45	21.07	<=30	Pass

		36	0	19.95	-0.45	19.50	<=30	Pass
			18	19.74	-0.45	19.29	<=30	Pass
			39	19.92	-0.45	19.47	<=30	Pass
		75	0	19.68	-0.45	19.23	<=30	Pass
	1732.5	1	0	21.57	-0.45	21.12	<=30	Pass
			38	21.70	-0.45	21.25	<=30	Pass
			74	21.76	-0.45	21.31	<=30	Pass
		36	0	20.45	-0.45	20.00	<=30	Pass
			18	20.16	-0.45	19.71	<=30	Pass
			39	20.59	-0.45	20.14	<=30	Pass
		75	0	20.14	-0.45	19.69	<=30	Pass
	1747.5	1	0	21.79	-0.45	21.34	<=30	Pass
			38	21.88	-0.45	21.43	<=30	Pass
			74	21.92	-0.45	21.47	<=30	Pass
		36	0	20.25	-0.45	19.80	<=30	Pass
			18	20.34	-0.45	19.89	<=30	Pass
			39	20.28	-0.45	19.83	<=30	Pass
		75	0	20.30	-0.45	19.85	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

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	21.50	-0.45	21.05	<=30	Pass		
			50	21.77	-0.45	21.32	<=30	Pass		
			99	21.94	-0.45	21.49	<=30	Pass		
		50	0	20.65	-0.45	20.20	<=30	Pass		
			25	20.74	-0.45	20.29	<=30	Pass		
			50	20.88	-0.45	20.43	<=30	Pass		
		100	0	20.72	-0.45	20.27	<=30	Pass		
		1732.5	1	0	21.79	-0.45	21.34	<=30	Pass	
				50	22.00	-0.45	21.55	<=30	Pass	
	99			22.16	-0.45	21.71	<=30	Pass		
	50		0	20.93	-0.45	20.48	<=30	Pass		
			25	20.94	-0.45	20.49	<=30	Pass		
			50	21.00	-0.45	20.55	<=30	Pass		
	100		0	21.03	-0.45	20.58	<=30	Pass		
	1745		1	0	22.05	-0.45	21.60	<=30	Pass	
				50	22.17	-0.45	21.72	<=30	Pass	
		99		22.27	-0.45	21.82	<=30	Pass		
		50	0	21.15	-0.45	20.70	<=30	Pass		
			25	21.09	-0.45	20.64	<=30	Pass		
			50	21.24	-0.45	20.79	<=30	Pass		
		100	0	21.17	-0.45	20.72	<=30	Pass		
		16QAM	1720	1	0	21.72	-0.45	21.27	<=30	Pass
					50	21.94	-0.45	21.49	<=30	Pass
	99				22.19	-0.45	21.74	<=30	Pass	
	50			0	20.02	-0.45	19.57	<=30	Pass	
				25	20.18	-0.45	19.73	<=30	Pass	
				50	19.96	-0.45	19.51	<=30	Pass	
	100			0	19.99	-0.45	19.54	<=30	Pass	
	1732.5			1	0	21.30	-0.45	20.85	<=30	Pass
					50	21.45	-0.45	21.00	<=30	Pass
			99		21.54	-0.45	21.09	<=30	Pass	
			50	0	20.07	-0.45	19.62	<=30	Pass	
				25	20.10	-0.45	19.65	<=30	Pass	

		100	50	20.53	-0.45	20.08	<=30	Pass
			0	20.10	-0.45	19.65	<=30	Pass
	1745	1	0	22.06	-0.45	21.61	<=30	Pass
			50	22.07	-0.45	21.62	<=30	Pass
			99	22.08	-0.45	21.63	<=30	Pass
	50		0	20.37	-0.45	19.92	<=30	Pass
			25	20.23	-0.45	19.78	<=30	Pass
			50	20.60	-0.45	20.15	<=30	Pass
	100		0	20.30	-0.45	19.85	<=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	0.215	0.0001	-2.5 to 2.5	Pass
					3.85	-36.192	-0.0212	-2.5 to 2.5	Pass
					4.43	-0.744	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-40.226	-0.0235	-2.5 to 2.5	Pass
				-20	3.85	-25.592	-0.0150	-2.5 to 2.5	Pass
				-10	3.85	-30.999	-0.0181	-2.5 to 2.5	Pass
				0	3.85	-10.486	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-18.568	-0.0109	-2.5 to 2.5	Pass
				30	3.85	6.938	0.0041	-2.5 to 2.5	Pass
				40	3.85	-5.751	-0.0034	-2.5 to 2.5	Pass
				50	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	31.500	0.0182	-2.5 to 2.5	Pass
					3.85	2.232	0.0013	-2.5 to 2.5	Pass
					4.43	-24.233	-0.0140	-2.5 to 2.5	Pass
				-30	3.85	-43.645	-0.0252	-2.5 to 2.5	Pass
				-20	3.85	-19.712	-0.0114	-2.5 to 2.5	Pass
				-10	3.85	-35.620	-0.0206	-2.5 to 2.5	Pass
				0	3.85	-20.285	-0.0117	-2.5 to 2.5	Pass
				10	3.85	-19.755	-0.0114	-2.5 to 2.5	Pass
				30	3.85	-32.458	-0.0187	-2.5 to 2.5	Pass
				40	3.85	14.048	0.0081	-2.5 to 2.5	Pass
				50	3.85	5.207	0.0030	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-26.507	-0.0151	-2.5 to 2.5	Pass
					3.85	-33.889	-0.0193	-2.5 to 2.5	Pass
					4.43	-24.419	-0.0139	-2.5 to 2.5	Pass
				-30	3.85	-32.759	-0.0187	-2.5 to 2.5	Pass
				-20	3.85	-7.052	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-24.877	-0.0142	-2.5 to 2.5	Pass
				0	3.85	3.934	0.0022	-2.5 to 2.5	Pass
				10	3.85	-3.133	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-15.321	-0.0087	-2.5 to 2.5	Pass
				40	3.85	-9.742	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-30.785	-0.0175	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-0.229	-0.0001	-2.5 to 2.5	Pass
					3.85	13.933	0.0081	-2.5 to 2.5	Pass
					4.43	16.909	0.0099	-2.5 to 2.5	Pass
				-30	3.85	26.951	0.0158	-2.5 to 2.5	Pass

				-20	3.85	24.118	0.0141	-2.5 to 2.5	Pass
				-10	3.85	21.329	0.0125	-2.5 to 2.5	Pass
				0	3.85	19.569	0.0114	-2.5 to 2.5	Pass
				10	3.85	23.289	0.0136	-2.5 to 2.5	Pass
				30	3.85	24.676	0.0144	-2.5 to 2.5	Pass
				40	3.85	27.080	0.0158	-2.5 to 2.5	Pass
				50	3.85	31.443	0.0184	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	1.087	0.0006	-2.5 to 2.5	Pass
					3.85	8.168	0.0047	-2.5 to 2.5	Pass
					4.43	22.831	0.0132	-2.5 to 2.5	Pass
				-30	3.85	-19.140	-0.0110	-2.5 to 2.5	Pass
				-20	3.85	-26.236	-0.0151	-2.5 to 2.5	Pass
				-10	3.85	-14.791	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-6.123	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-4.334	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-9.670	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-12.274	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-5.307	-0.0031	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-15.092	-0.0086	-2.5 to 2.5	Pass
					3.85	-19.541	-0.0111	-2.5 to 2.5	Pass
					4.43	-35.133	-0.0200	-2.5 to 2.5	Pass
				-30	3.85	3.190	0.0018	-2.5 to 2.5	Pass
				-20	3.85	-11.816	-0.0067	-2.5 to 2.5	Pass
				-10	3.85	-10.843	-0.0062	-2.5 to 2.5	Pass
				0	3.85	-18.954	-0.0108	-2.5 to 2.5	Pass
				10	3.85	-17.467	-0.0100	-2.5 to 2.5	Pass
				30	3.85	-18.826	-0.0107	-2.5 to 2.5	Pass
				40	3.85	-17.910	-0.0102	-2.5 to 2.5	Pass
				50	3.85	-31.643	-0.0180	-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	-13.690	-0.0080	-2.5 to 2.5	Pass
					3.85	-28.796	-0.0168	-2.5 to 2.5	Pass
					4.43	-36.678	-0.0214	-2.5 to 2.5	Pass
				-30	3.85	-6.566	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-22.187	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-19.169	-0.0112	-2.5 to 2.5	Pass
				0	3.85	-18.239	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-6.022	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-24.962	-0.0146	-2.5 to 2.5	Pass
				40	3.85	-11.330	-0.0066	-2.5 to 2.5	Pass
				50	3.85	-19.798	-0.0116	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	14.591	0.0084	-2.5 to 2.5	Pass
					3.85	-23.818	-0.0137	-2.5 to 2.5	Pass
					4.43	-22.173	-0.0128	-2.5 to 2.5	Pass
				-30	3.85	-23.403	-0.0135	-2.5 to 2.5	Pass
				-20	3.85	-36.120	-0.0208	-2.5 to 2.5	Pass
				-10	3.85	-16.108	-0.0093	-2.5 to 2.5	Pass
				0	3.85	-36.964	-0.0213	-2.5 to 2.5	Pass
				10	3.85	-2.031	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-10.357	-0.0060	-2.5 to 2.5	Pass
				40	3.85	-19.355	-0.0112	-2.5 to 2.5	Pass
				50	3.85	-23.589	-0.0136	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	22.659	0.0129	-2.5 to 2.5	Pass

					3.85	31.257	0.0178	-2.5 to 2.5	Pass
					4.43	-4.435	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	4.878	0.0028	-2.5 to 2.5	Pass
				-20	3.85	19.383	0.0111	-2.5 to 2.5	Pass
				-10	3.85	24.147	0.0138	-2.5 to 2.5	Pass
				0	3.85	-3.505	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-2.704	-0.0015	-2.5 to 2.5	Pass
				30	3.85	5.937	0.0034	-2.5 to 2.5	Pass
				40	3.85	4.807	0.0027	-2.5 to 2.5	Pass
				50	3.85	10.815	0.0062	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-25.578	-0.0149	-2.5 to 2.5	Pass
					3.85	-17.495	-0.0102	-2.5 to 2.5	Pass
					4.43	-18.868	-0.0110	-2.5 to 2.5	Pass
				-30	3.85	-22.545	-0.0132	-2.5 to 2.5	Pass
				-20	3.85	-20.614	-0.0120	-2.5 to 2.5	Pass
				-10	3.85	-18.840	-0.0110	-2.5 to 2.5	Pass
				0	3.85	-19.913	-0.0116	-2.5 to 2.5	Pass
				10	3.85	-18.268	-0.0107	-2.5 to 2.5	Pass
				30	3.85	-23.417	-0.0137	-2.5 to 2.5	Pass
				40	3.85	-18.239	-0.0107	-2.5 to 2.5	Pass
	50	3.85	-32.315	-0.0189	-2.5 to 2.5	Pass			
	1732.5	15	0	20	3.27	-26.379	-0.0152	-2.5 to 2.5	Pass
					3.85	-11.573	-0.0067	-2.5 to 2.5	Pass
					4.43	-2.589	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	7.567	0.0044	-2.5 to 2.5	Pass
				-20	3.85	16.665	0.0096	-2.5 to 2.5	Pass
				-10	3.85	11.644	0.0067	-2.5 to 2.5	Pass
				0	3.85	8.726	0.0050	-2.5 to 2.5	Pass
				10	3.85	7.596	0.0044	-2.5 to 2.5	Pass
				30	3.85	12.732	0.0073	-2.5 to 2.5	Pass
				40	3.85	24.419	0.0141	-2.5 to 2.5	Pass
	50	3.85	26.622	0.0154	-2.5 to 2.5	Pass			
	1753.5	15	0	20	3.27	17.667	0.0101	-2.5 to 2.5	Pass
					3.85	35.448	0.0202	-2.5 to 2.5	Pass
					4.43	7.811	0.0045	-2.5 to 2.5	Pass
				-30	3.85	15.965	0.0091	-2.5 to 2.5	Pass
				-20	3.85	29.712	0.0169	-2.5 to 2.5	Pass
				-10	3.85	36.821	0.0210	-2.5 to 2.5	Pass
				0	3.85	11.444	0.0065	-2.5 to 2.5	Pass
				10	3.85	14.734	0.0084	-2.5 to 2.5	Pass
30				3.85	19.798	0.0113	-2.5 to 2.5	Pass	
40				3.85	20.099	0.0115	-2.5 to 2.5	Pass	
50	3.85	15.635	0.0089	-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	-22.974	-0.0134	-2.5 to 2.5	Pass
					3.85	-40.655	-0.0237	-2.5 to 2.5	Pass
					4.43	-29.612	-0.0173	-2.5 to 2.5	Pass
				-30	3.85	-32.287	-0.0189	-2.5 to 2.5	Pass
				-20	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-12.331	-0.0072	-2.5 to 2.5	Pass
				0	3.85	-32.244	-0.0188	-2.5 to 2.5	Pass
				10	3.85	-21.729	-0.0127	-2.5 to 2.5	Pass
				30	3.85	-9.356	-0.0055	-2.5 to 2.5	Pass

	1732.5	25	0	40	3.85	-39.926	-0.0233	-2.5 to 2.5	Pass
				50	3.85	-30.298	-0.0177	-2.5 to 2.5	Pass
				20	3.27	8.240	0.0048	-2.5 to 2.5	Pass
					3.85	-17.624	-0.0102	-2.5 to 2.5	Pass
					4.43	-25.878	-0.0149	-2.5 to 2.5	Pass
				-30	3.85	-11.487	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-9.770	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	-32.072	-0.0185	-2.5 to 2.5	Pass
				0	3.85	1.659	0.0010	-2.5 to 2.5	Pass
				10	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-30.556	-0.0176	-2.5 to 2.5	Pass
				50	3.85	-6.566	-0.0038	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-2.317	-0.0013	-2.5 to 2.5	Pass
					3.85	-45.547	-0.0260	-2.5 to 2.5	Pass
					4.43	2.146	0.0012	-2.5 to 2.5	Pass
				-30	3.85	-23.618	-0.0135	-2.5 to 2.5	Pass
				-20	3.85	-8.740	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-32.415	-0.0185	-2.5 to 2.5	Pass
				0	3.85	-18.411	-0.0105	-2.5 to 2.5	Pass
				10	3.85	8.755	0.0050	-2.5 to 2.5	Pass
				30	3.85	-18.010	-0.0103	-2.5 to 2.5	Pass
				40	3.85	-29.840	-0.0170	-2.5 to 2.5	Pass
				50	3.85	-4.449	-0.0025	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-5.922	-0.0035	-2.5 to 2.5	Pass
					3.85	-25.878	-0.0151	-2.5 to 2.5	Pass
					4.43	-25.778	-0.0151	-2.5 to 2.5	Pass
				-30	3.85	-16.394	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-23.217	-0.0136	-2.5 to 2.5	Pass
				-10	3.85	-14.219	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-16.751	-0.0098	-2.5 to 2.5	Pass
				10	3.85	-15.378	-0.0090	-2.5 to 2.5	Pass
				30	3.85	-11.315	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-26.851	-0.0157	-2.5 to 2.5	Pass
				50	3.85	-5.851	-0.0034	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-15.993	-0.0092	-2.5 to 2.5	Pass
					3.85	-6.852	-0.0040	-2.5 to 2.5	Pass
					4.43	-3.104	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-7.167	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-21.801	-0.0126	-2.5 to 2.5	Pass
				-10	3.85	-34.089	-0.0197	-2.5 to 2.5	Pass
				0	3.85	-11.573	-0.0067	-2.5 to 2.5	Pass
				10	3.85	-31.586	-0.0182	-2.5 to 2.5	Pass
				30	3.85	-13.661	-0.0079	-2.5 to 2.5	Pass
				40	3.85	0.615	0.0004	-2.5 to 2.5	Pass
				50	3.85	-16.365	-0.0094	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-22.931	-0.0131	-2.5 to 2.5	Pass
					3.85	-19.827	-0.0113	-2.5 to 2.5	Pass
					4.43	-16.050	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-18.654	-0.0106	-2.5 to 2.5	Pass
				-20	3.85	-15.564	-0.0089	-2.5 to 2.5	Pass
				-10	3.85	-17.552	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-15.650	-0.0089	-2.5 to 2.5	Pass
				10	3.85	-27.423	-0.0156	-2.5 to 2.5	Pass
				30	3.85	-23.246	-0.0133	-2.5 to 2.5	Pass
				40	3.85	-24.948	-0.0142	-2.5 to 2.5	Pass
				50	3.85	-29.826	-0.0170	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

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Version: 1/00

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	4.406	0.0026	-2.5 to 2.5	Pass
					3.85	-20.213	-0.0118	-2.5 to 2.5	Pass
					4.43	-26.779	-0.0156	-2.5 to 2.5	Pass
				-30	3.85	-26.507	-0.0155	-2.5 to 2.5	Pass
				-20	3.85	-14.534	-0.0085	-2.5 to 2.5	Pass
				-10	3.85	29.898	0.0174	-2.5 to 2.5	Pass
				0	3.85	11.258	0.0066	-2.5 to 2.5	Pass
				10	3.85	30.756	0.0179	-2.5 to 2.5	Pass
				30	3.85	21.415	0.0125	-2.5 to 2.5	Pass
				40	3.85	26.450	0.0154	-2.5 to 2.5	Pass
				50	3.85	31.571	0.0184	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	30.627	0.0177	-2.5 to 2.5	Pass
					3.85	-16.308	-0.0094	-2.5 to 2.5	Pass
					4.43	-7.052	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-37.336	-0.0216	-2.5 to 2.5	Pass
				-20	3.85	-3.562	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-33.274	-0.0192	-2.5 to 2.5	Pass
				0	3.85	-9.098	-0.0053	-2.5 to 2.5	Pass
				10	3.85	-16.036	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-11.430	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-10.643	-0.0061	-2.5 to 2.5	Pass
				50	3.85	-12.503	-0.0072	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	24.133	0.0138	-2.5 to 2.5	Pass
					3.85	21.043	0.0120	-2.5 to 2.5	Pass
					4.43	25.177	0.0144	-2.5 to 2.5	Pass
				-30	3.85	31.514	0.0180	-2.5 to 2.5	Pass
				-20	3.85	-8.883	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-3.691	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-1.030	-0.0006	-2.5 to 2.5	Pass
				10	3.85	4.606	0.0026	-2.5 to 2.5	Pass
				30	3.85	3.963	0.0023	-2.5 to 2.5	Pass
				40	3.85	0.529	0.0003	-2.5 to 2.5	Pass
				50	3.85	-2.503	-0.0014	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-0.715	-0.0004	-2.5 to 2.5	Pass
					3.85	19.956	0.0116	-2.5 to 2.5	Pass
					4.43	22.488	0.0131	-2.5 to 2.5	Pass
				-30	3.85	14.319	0.0083	-2.5 to 2.5	Pass
				-20	3.85	21.358	0.0125	-2.5 to 2.5	Pass
				-10	3.85	29.297	0.0171	-2.5 to 2.5	Pass
				0	3.85	-6.480	-0.0038	-2.5 to 2.5	Pass
				10	3.85	7.024	0.0041	-2.5 to 2.5	Pass
				30	3.85	14.148	0.0082	-2.5 to 2.5	Pass
				40	3.85	18.482	0.0108	-2.5 to 2.5	Pass
				50	3.85	20.928	0.0122	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-18.640	-0.0108	-2.5 to 2.5	Pass
					3.85	-1.187	-0.0007	-2.5 to 2.5	Pass
					4.43	16.294	0.0094	-2.5 to 2.5	Pass
				-30	3.85	31.013	0.0179	-2.5 to 2.5	Pass
				-20	3.85	-3.433	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	4.706	0.0027	-2.5 to 2.5	Pass
				0	3.85	8.526	0.0049	-2.5 to 2.5	Pass
				10	3.85	3.805	0.0022	-2.5 to 2.5	Pass
				30	3.85	9.899	0.0057	-2.5 to 2.5	Pass
				40	3.85	16.909	0.0098	-2.5 to 2.5	Pass
				50	3.85	13.762	0.0079	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-5.593	-0.0032	-2.5 to 2.5	Pass
					3.85	22.058	0.0126	-2.5 to 2.5	Pass

					4.43	7.868	0.0045	-2.5 to 2.5	Pass
				-30	3.85	15.821	0.0090	-2.5 to 2.5	Pass
				-20	3.85	34.833	0.0199	-2.5 to 2.5	Pass
				-10	3.85	16.508	0.0094	-2.5 to 2.5	Pass
				0	3.85	34.733	0.0198	-2.5 to 2.5	Pass
				10	3.85	40.040	0.0229	-2.5 to 2.5	Pass
				30	3.85	40.627	0.0232	-2.5 to 2.5	Pass
				40	3.85	39.668	0.0227	-2.5 to 2.5	Pass
				50	3.85	14.935	0.0085	-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	-24.662	-0.0144	-2.5 to 2.5	Pass
					3.85	-24.376	-0.0142	-2.5 to 2.5	Pass
					4.43	-16.766	-0.0098	-2.5 to 2.5	Pass
				-30	3.85	-26.150	-0.0152	-2.5 to 2.5	Pass
				-20	3.85	-29.783	-0.0173	-2.5 to 2.5	Pass
				-10	3.85	-17.610	-0.0103	-2.5 to 2.5	Pass
				0	3.85	-14.663	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-31.929	-0.0186	-2.5 to 2.5	Pass
				30	3.85	-18.883	-0.0110	-2.5 to 2.5	Pass
				40	3.85	-19.641	-0.0114	-2.5 to 2.5	Pass
				50	3.85	-22.402	-0.0130	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	27.738	0.0160	-2.5 to 2.5	Pass
					3.85	-27.666	-0.0160	-2.5 to 2.5	Pass
					4.43	-19.627	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-20.027	-0.0116	-2.5 to 2.5	Pass
				-20	3.85	-17.366	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-37.508	-0.0216	-2.5 to 2.5	Pass
				0	3.85	-26.908	-0.0155	-2.5 to 2.5	Pass
				10	3.85	-46.306	-0.0267	-2.5 to 2.5	Pass
				30	3.85	-8.197	-0.0047	-2.5 to 2.5	Pass
				40	3.85	-26.350	-0.0152	-2.5 to 2.5	Pass
				50	3.85	-0.687	-0.0004	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	19.898	0.0114	-2.5 to 2.5	Pass
					3.85	21.501	0.0123	-2.5 to 2.5	Pass
					4.43	17.452	0.0100	-2.5 to 2.5	Pass
				-30	3.85	29.368	0.0168	-2.5 to 2.5	Pass
				-20	3.85	23.661	0.0135	-2.5 to 2.5	Pass
				-10	3.85	30.298	0.0173	-2.5 to 2.5	Pass
				0	3.85	3.262	0.0019	-2.5 to 2.5	Pass
				10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				30	3.85	-9.956	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-8.812	-0.0050	-2.5 to 2.5	Pass
				50	3.85	-6.065	-0.0035	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-12.274	-0.0071	-2.5 to 2.5	Pass
					3.85	-8.025	-0.0047	-2.5 to 2.5	Pass
					4.43	-10.657	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-15.249	-0.0089	-2.5 to 2.5	Pass
				-20	3.85	-34.347	-0.0200	-2.5 to 2.5	Pass
				-10	3.85	-18.024	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-36.206	-0.0211	-2.5 to 2.5	Pass
				10	3.85	-31.128	-0.0181	-2.5 to 2.5	Pass
				30	3.85	-21.000	-0.0122	-2.5 to 2.5	Pass
				40	3.85	6.838	0.0040	-2.5 to 2.5	Pass

	1732.5	75	0	50	3.85	-9.513	-0.0055	-2.5 to 2.5	Pass
				20	3.27	2.031	0.0012	-2.5 to 2.5	Pass
					3.85	8.440	0.0049	-2.5 to 2.5	Pass
					4.43	23.432	0.0135	-2.5 to 2.5	Pass
				-30	3.85	18.296	0.0106	-2.5 to 2.5	Pass
				-20	3.85	26.407	0.0152	-2.5 to 2.5	Pass
				-10	3.85	33.574	0.0194	-2.5 to 2.5	Pass
				0	3.85	12.288	0.0071	-2.5 to 2.5	Pass
				10	3.85	12.360	0.0071	-2.5 to 2.5	Pass
				30	3.85	4.435	0.0026	-2.5 to 2.5	Pass
	1747.5	75	0	40	3.85	9.699	0.0056	-2.5 to 2.5	Pass
				50	3.85	11.630	0.0067	-2.5 to 2.5	Pass
				20	3.27	-5.994	-0.0034	-2.5 to 2.5	Pass
					3.85	13.518	0.0077	-2.5 to 2.5	Pass
					4.43	34.375	0.0197	-2.5 to 2.5	Pass
				-30	3.85	14.691	0.0084	-2.5 to 2.5	Pass
				-20	3.85	32.787	0.0188	-2.5 to 2.5	Pass
				-10	3.85	-3.462	-0.0020	-2.5 to 2.5	Pass
				0	3.85	5.307	0.0030	-2.5 to 2.5	Pass
				10	3.85	1.860	0.0011	-2.5 to 2.5	Pass
				30	3.85	4.950	0.0028	-2.5 to 2.5	Pass
				40	3.85	17.095	0.0098	-2.5 to 2.5	Pass
				50	3.85	28.296	0.0162	-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	-24.633	-0.0143	-2.5 to 2.5	Pass
					3.85	-18.511	-0.0108	-2.5 to 2.5	Pass
					4.43	-23.589	-0.0137	-2.5 to 2.5	Pass
				-30	3.85	-26.779	-0.0156	-2.5 to 2.5	Pass
				-20	3.85	-32.873	-0.0191	-2.5 to 2.5	Pass
				-10	3.85	-20.585	-0.0120	-2.5 to 2.5	Pass
				0	3.85	-19.097	-0.0111	-2.5 to 2.5	Pass
				10	3.85	-2.561	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-25.349	-0.0147	-2.5 to 2.5	Pass
				40	3.85	-27.180	-0.0158	-2.5 to 2.5	Pass
	1732.5	100	0	50	3.85	-28.982	-0.0169	-2.5 to 2.5	Pass
				20	3.27	-28.410	-0.0164	-2.5 to 2.5	Pass
					3.85	-23.503	-0.0136	-2.5 to 2.5	Pass
					4.43	-19.326	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-28.038	-0.0162	-2.5 to 2.5	Pass
				-20	3.85	-26.994	-0.0156	-2.5 to 2.5	Pass
				-10	3.85	-21.443	-0.0124	-2.5 to 2.5	Pass
				0	3.85	-24.447	-0.0141	-2.5 to 2.5	Pass
				10	3.85	-21.987	-0.0127	-2.5 to 2.5	Pass
				30	3.85	-12.188	-0.0070	-2.5 to 2.5	Pass
	1745	100	0	40	3.85	-21.229	-0.0123	-2.5 to 2.5	Pass
				50	3.85	-38.352	-0.0221	-2.5 to 2.5	Pass
				20	3.27	23.546	0.0135	-2.5 to 2.5	Pass
					3.85	-28.453	-0.0163	-2.5 to 2.5	Pass
					4.43	-34.590	-0.0198	-2.5 to 2.5	Pass
				-30	3.85	-36.278	-0.0208	-2.5 to 2.5	Pass
				-20	3.85	-16.837	-0.0096	-2.5 to 2.5	Pass
				-10	3.85	-6.695	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-30.627	-0.0176	-2.5 to 2.5	Pass

16QAM				10	3.85	14.348	0.0082	-2.5 to 2.5	Pass
				30	3.85	-4.206	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-20.514	-0.0118	-2.5 to 2.5	Pass
				50	3.85	-28.796	-0.0165	-2.5 to 2.5	Pass
	1720	100	0	20	3.27	-26.536	-0.0154	-2.5 to 2.5	Pass
					3.85	-19.984	-0.0116	-2.5 to 2.5	Pass
					4.43	-20.270	-0.0118	-2.5 to 2.5	Pass
				-30	3.85	-22.988	-0.0134	-2.5 to 2.5	Pass
				-20	3.85	-24.505	-0.0142	-2.5 to 2.5	Pass
				-10	3.85	-21.815	-0.0127	-2.5 to 2.5	Pass
				0	3.85	-14.234	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-18.525	-0.0108	-2.5 to 2.5	Pass
				30	3.85	-27.509	-0.0160	-2.5 to 2.5	Pass
				40	3.85	-31.142	-0.0181	-2.5 to 2.5	Pass
				50	3.85	-15.807	-0.0092	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-20.728	-0.0120	-2.5 to 2.5	Pass
					3.85	-23.990	-0.0138	-2.5 to 2.5	Pass
					4.43	-25.749	-0.0149	-2.5 to 2.5	Pass
				-30	3.85	-13.833	-0.0080	-2.5 to 2.5	Pass
				-20	3.85	-18.196	-0.0105	-2.5 to 2.5	Pass
				-10	3.85	-26.407	-0.0152	-2.5 to 2.5	Pass
				0	3.85	-18.010	-0.0104	-2.5 to 2.5	Pass
				10	3.85	-2.789	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-36.793	-0.0212	-2.5 to 2.5	Pass
				40	3.85	-25.721	-0.0148	-2.5 to 2.5	Pass
				50	3.85	3.591	0.0021	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-26.894	-0.0154	-2.5 to 2.5	Pass
					3.85	-2.561	-0.0015	-2.5 to 2.5	Pass
					4.43	12.102	0.0069	-2.5 to 2.5	Pass
				-30	3.85	15.521	0.0089	-2.5 to 2.5	Pass
				-20	3.85	-0.873	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	14.477	0.0083	-2.5 to 2.5	Pass
				0	3.85	15.063	0.0086	-2.5 to 2.5	Pass
				10	3.85	18.454	0.0106	-2.5 to 2.5	Pass
				30	3.85	23.417	0.0134	-2.5 to 2.5	Pass
				40	3.85	14.105	0.0081	-2.5 to 2.5	Pass
				50	3.85	9.828	0.0056	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

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

3.1.2 B4_3MHz

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

16QAM	1732.5	15	0	Refer To Test Graph	Pass
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3.1.3 B4_5MHz

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

3.1.4 B4_10MHz

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

3.1.5 B4_15MHz

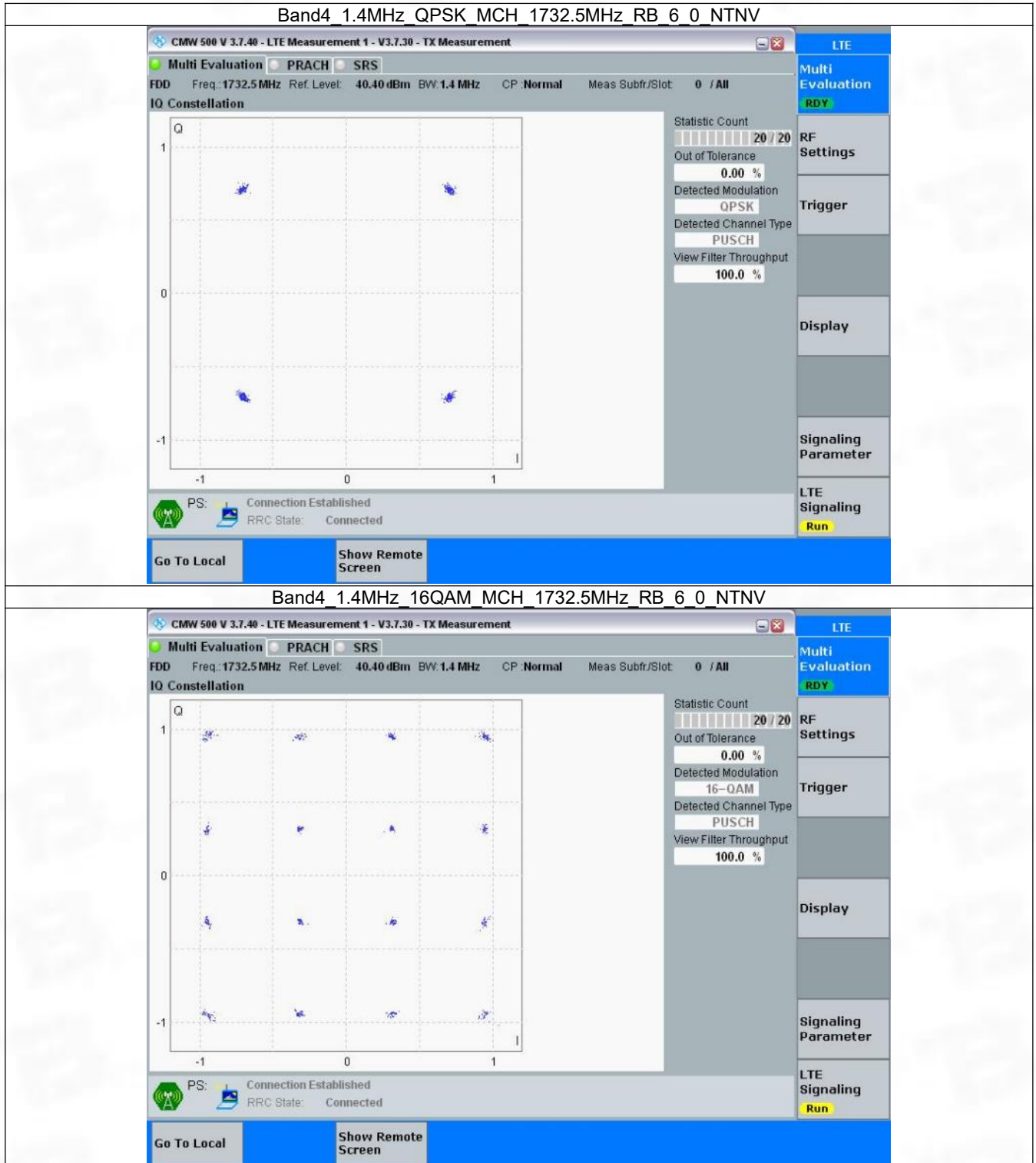
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

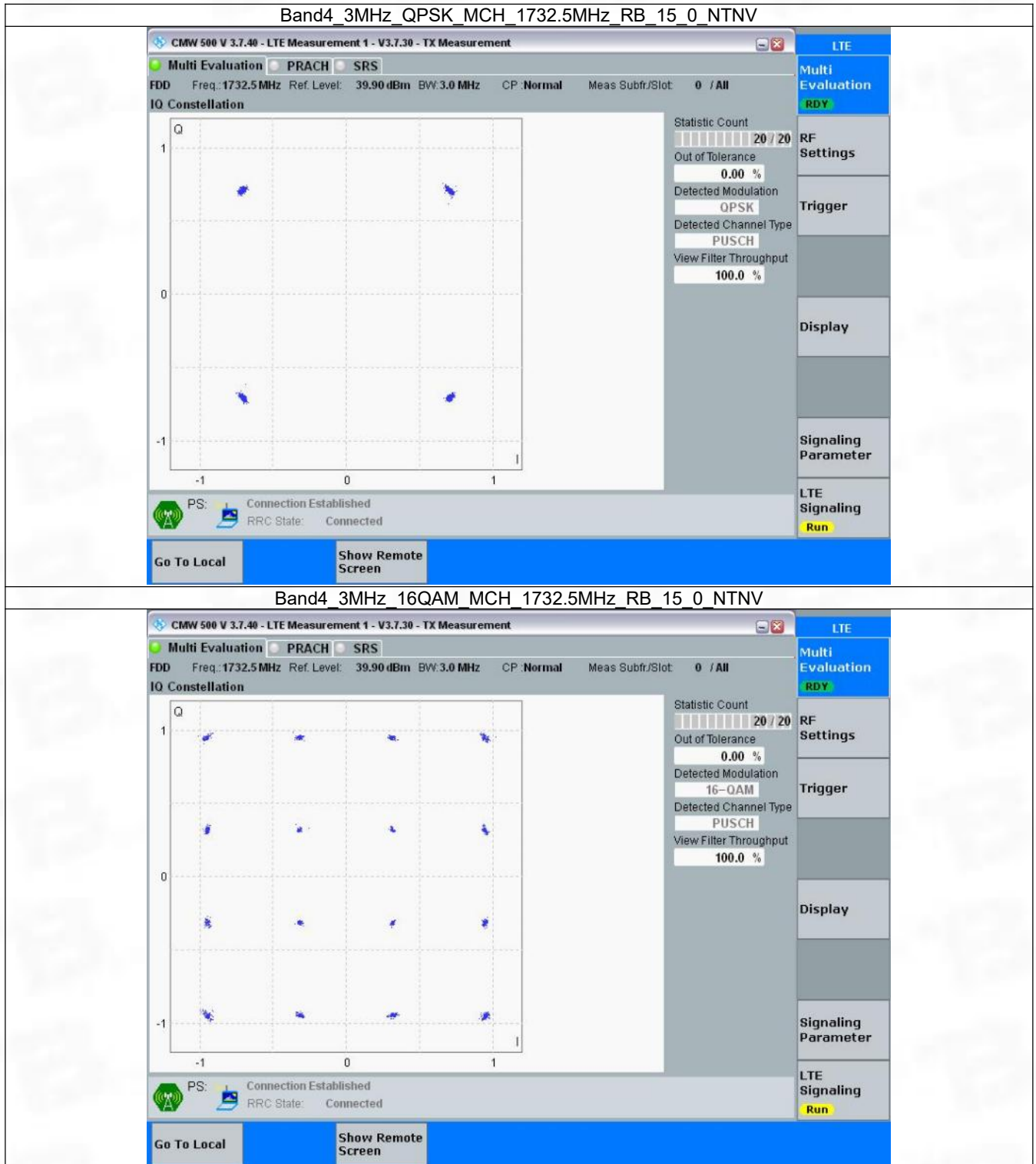
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

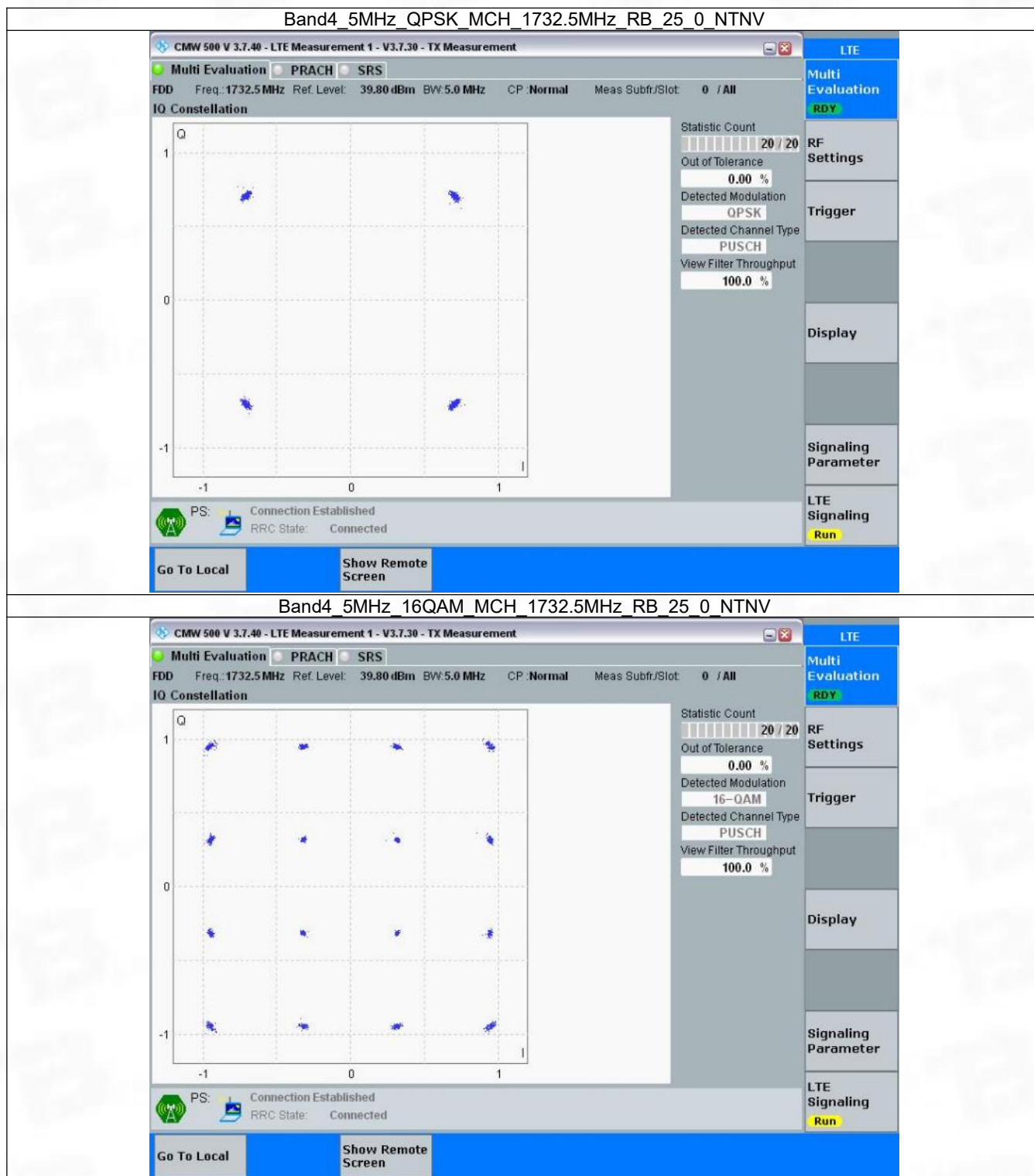
3.2.1 B4_1.4MHz



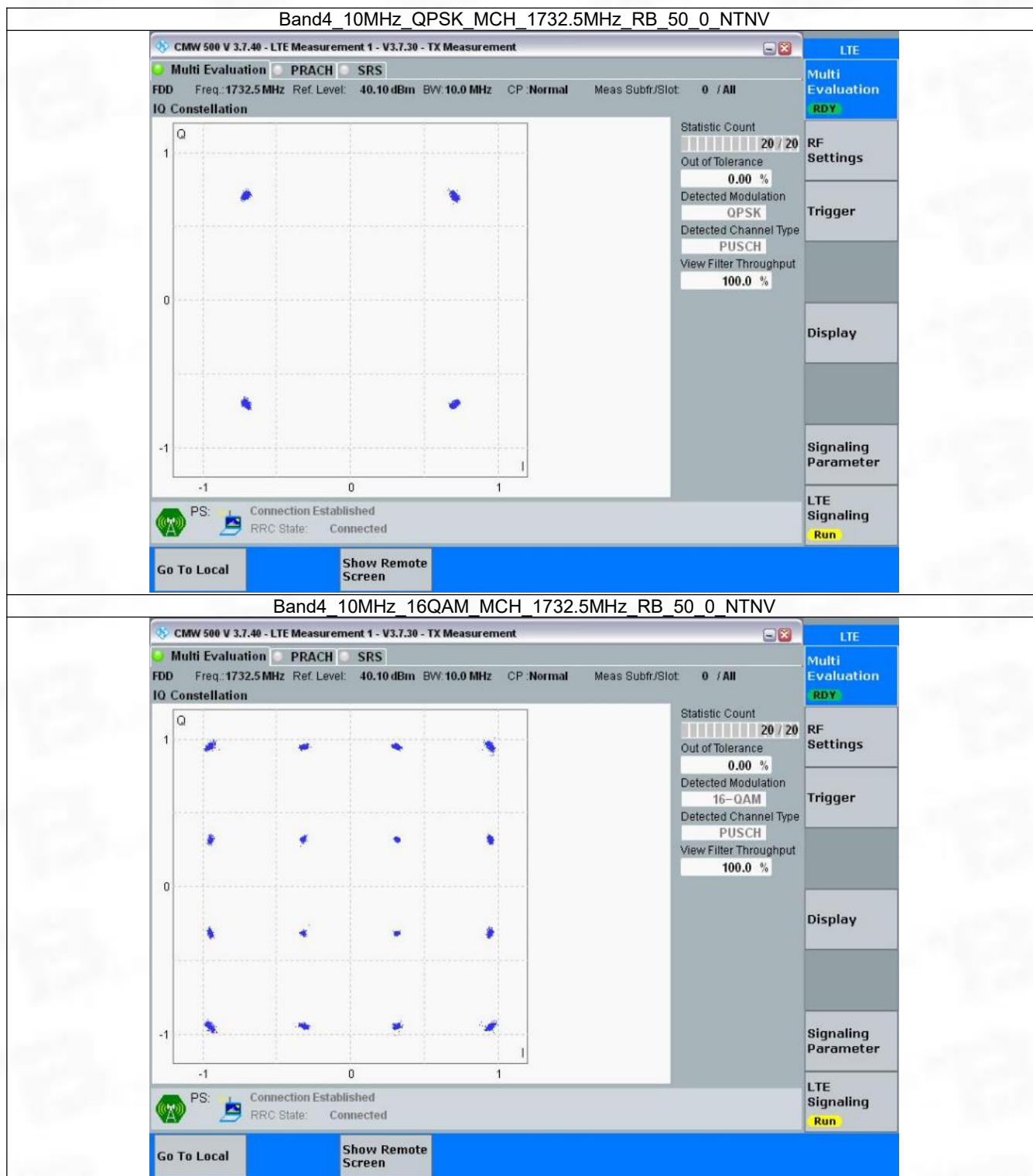
3.2.2 B4_3MHz



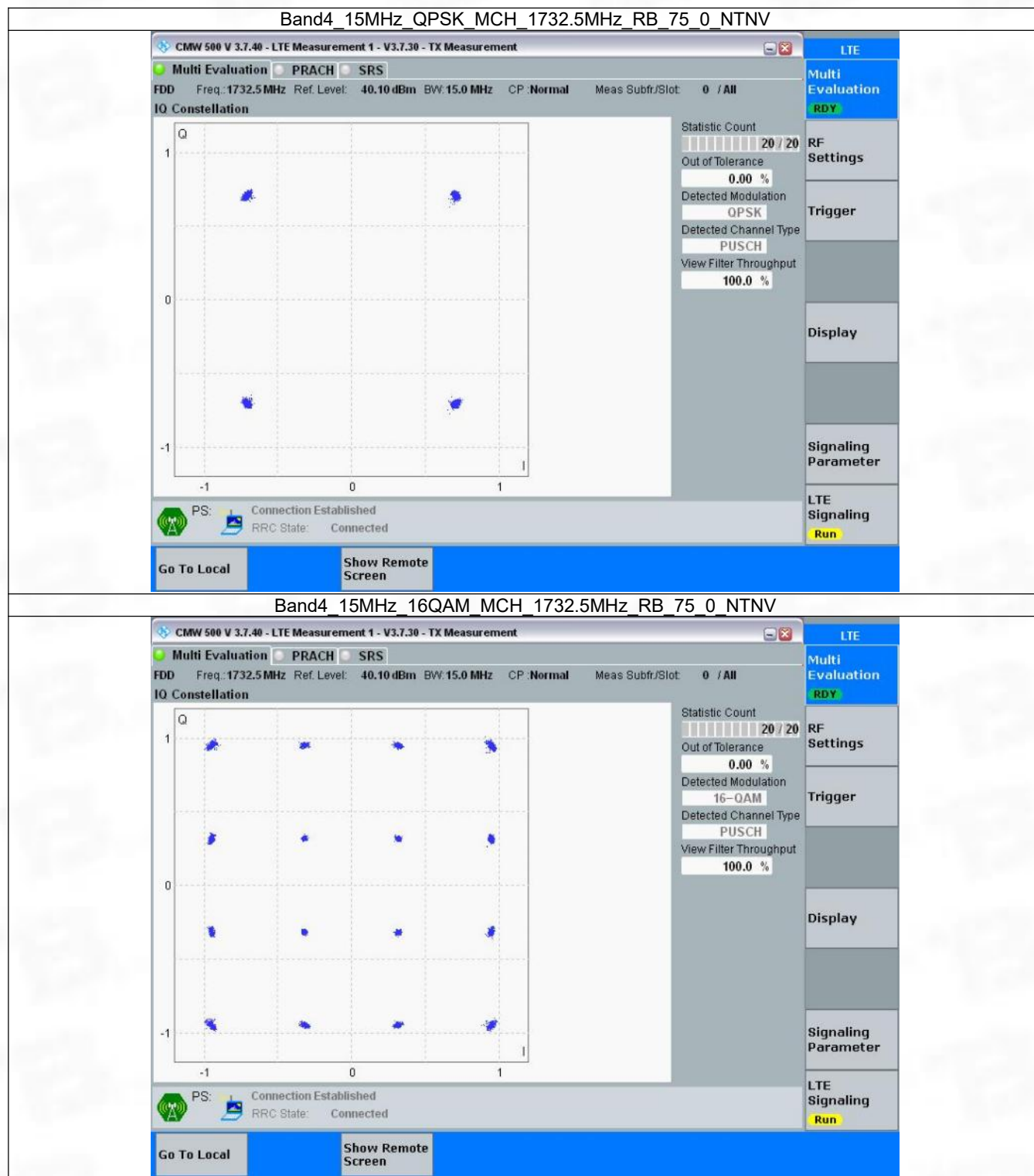
3.2.3 B4_5MHz



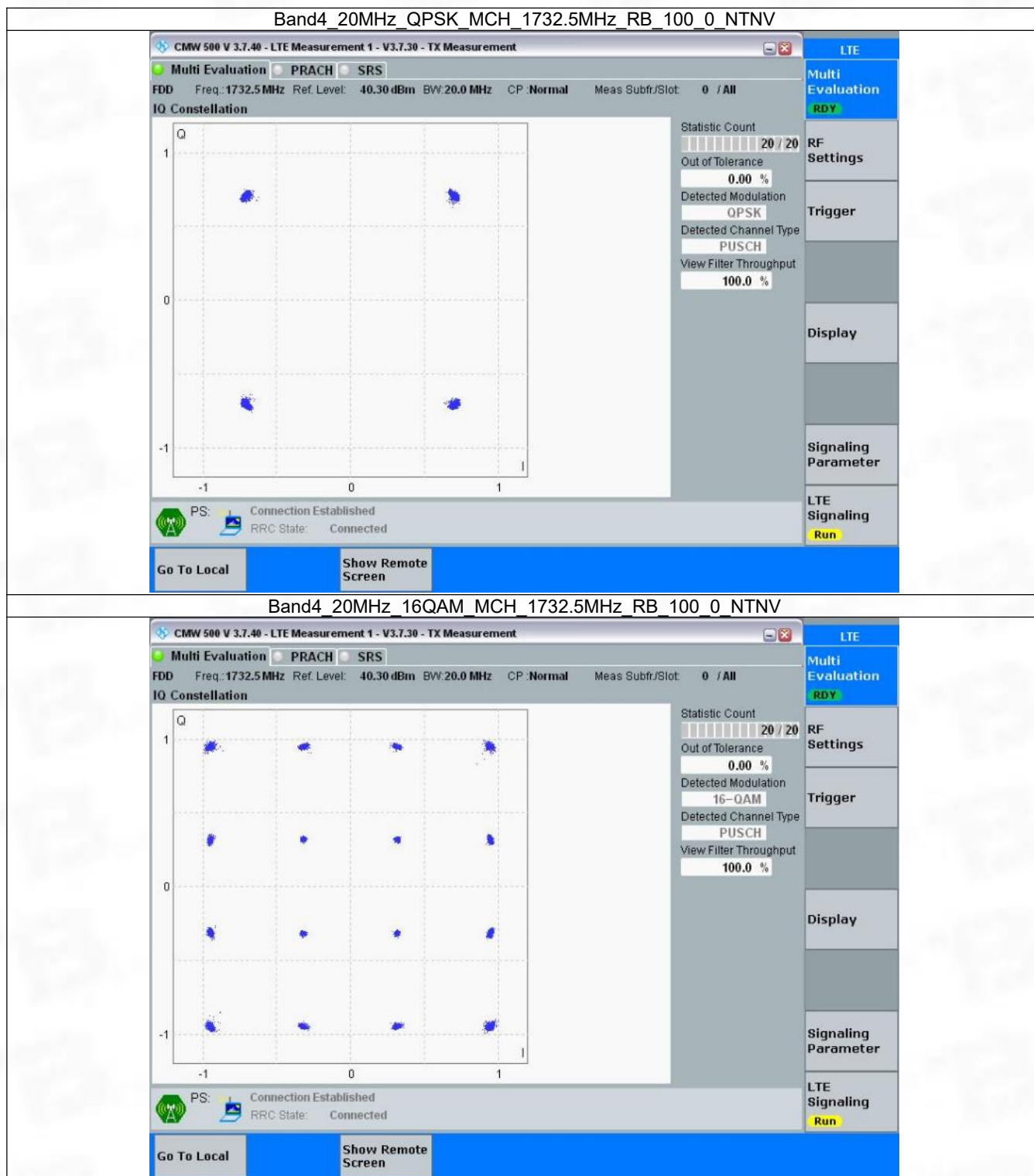
3.2.4 B4_10MHz



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	1.113	/	Pass
		1754.3	6	0	1.117	/	Pass
	16QAM	1710.7	6	0	1.112	/	Pass
		1732.5	6	0	1.105	/	Pass
		1754.3	6	0	1.121	/	Pass
3	QPSK	1711.5	15	0	2.754	/	Pass
		1732.5	15	0	2.759	/	Pass
		1753.5	15	0	2.748	/	Pass
	16QAM	1711.5	15	0	2.757	/	Pass
		1732.5	15	0	2.756	/	Pass
		1753.5	15	0	2.784	/	Pass
5	QPSK	1712.5	25	0	4.550	/	Pass
		1732.5	25	0	4.538	/	Pass
		1752.5	25	0	4.558	/	Pass
	16QAM	1712.5	25	0	4.576	/	Pass
		1732.5	25	0	4.562	/	Pass
		1752.5	25	0	4.565	/	Pass
10	QPSK	1715	50	0	9.073	/	Pass
		1732.5	50	0	9.037	/	Pass
		1750	50	0	9.098	/	Pass
	16QAM	1715	50	0	9.062	/	Pass
		1732.5	50	0	9.064	/	Pass
		1750	50	0	9.099	/	Pass
15	QPSK	1717.5	75	0	13.571	/	Pass
		1732.5	75	0	13.589	/	Pass
		1747.5	75	0	13.648	/	Pass
	16QAM	1717.5	75	0	13.620	/	Pass
		1732.5	75	0	13.648	/	Pass
		1747.5	75	0	13.653	/	Pass
20	QPSK	1720	100	0	18.156	/	Pass
		1732.5	100	0	18.190	/	Pass
		1745	100	0	18.199	/	Pass
	16QAM	1720	100	0	18.145	/	Pass
		1732.5	100	0	18.185	/	Pass
		1745	100	0	18.266	/	Pass

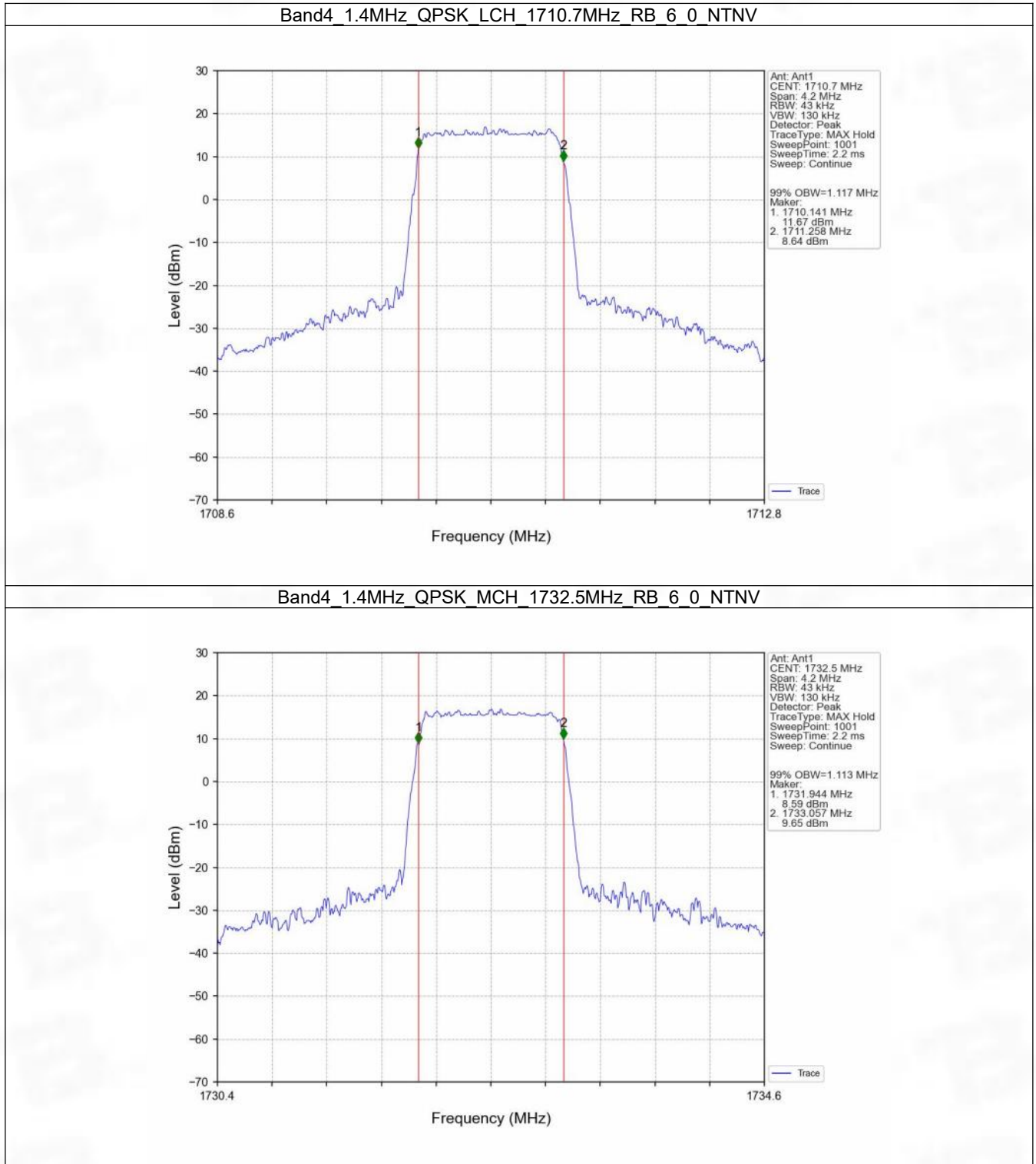
4.1.2 Band4_XDB

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	1.269	/	Pass
		1732.5	6	0	1.271	/	Pass
		1754.3	6	0	1.282	/	Pass
	16QAM	1710.7	6	0	1.275	/	Pass
		1710.7	6	0	1.275	/	Pass

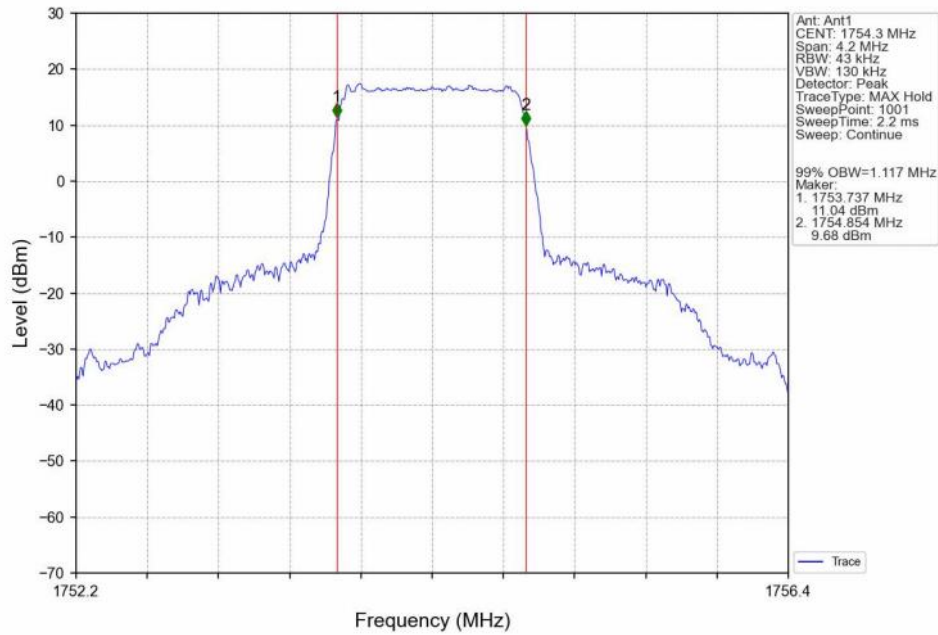
		1732.5	6	0	1.262	/	Pass
		1754.3	6	0	1.273	/	Pass
3	QPSK	1711.5	15	0	3.104	/	Pass
		1732.5	15	0	3.108	/	Pass
		1753.5	15	0	3.096	/	Pass
	16QAM	1711.5	15	0	3.120	/	Pass
		1732.5	15	0	3.092	/	Pass
		1753.5	15	0	3.088	/	Pass
5	QPSK	1712.5	25	0	5.034	/	Pass
		1732.5	25	0	5.070	/	Pass
		1752.5	25	0	5.040	/	Pass
	16QAM	1712.5	25	0	5.056	/	Pass
		1732.5	25	0	5.052	/	Pass
		1752.5	25	0	5.068	/	Pass
10	QPSK	1715	50	0	10.059	/	Pass
		1732.5	50	0	10.025	/	Pass
		1750	50	0	10.096	/	Pass
	16QAM	1715	50	0	10.056	/	Pass
		1732.5	50	0	10.068	/	Pass
		1750	50	0	10.045	/	Pass
15	QPSK	1717.5	75	0	15.164	/	Pass
		1732.5	75	0	15.119	/	Pass
		1747.5	75	0	15.289	/	Pass
	16QAM	1717.5	75	0	15.144	/	Pass
		1732.5	75	0	15.314	/	Pass
		1747.5	75	0	15.128	/	Pass
20	QPSK	1720	100	0	20.063	/	Pass
		1732.5	100	0	20.014	/	Pass
		1745	100	0	19.995	/	Pass
	16QAM	1720	100	0	20.031	/	Pass
		1732.5	100	0	20.077	/	Pass
		1745	100	0	19.940	/	Pass

4.2 Test Graph

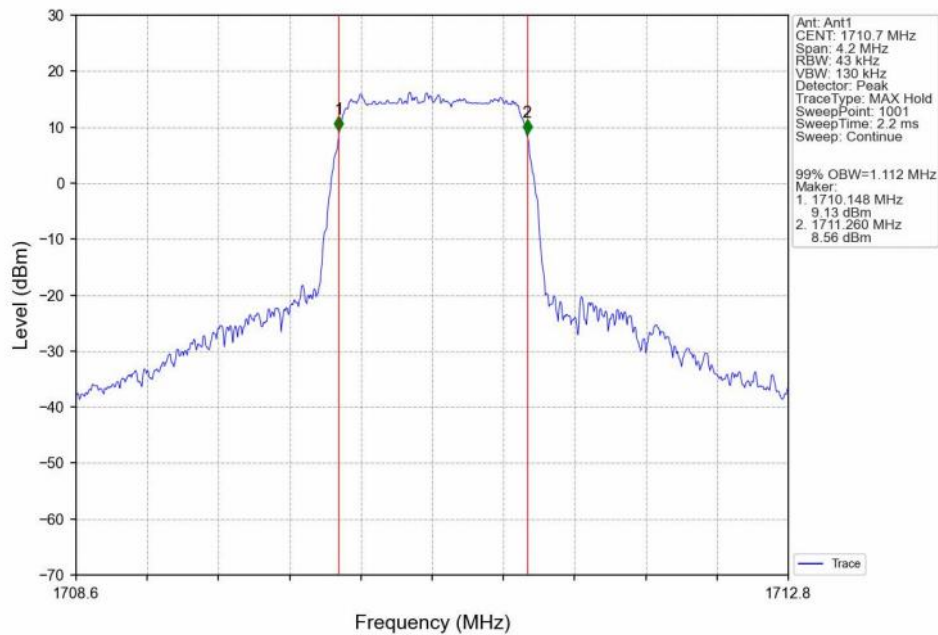
4.2.1 Band4_OBW



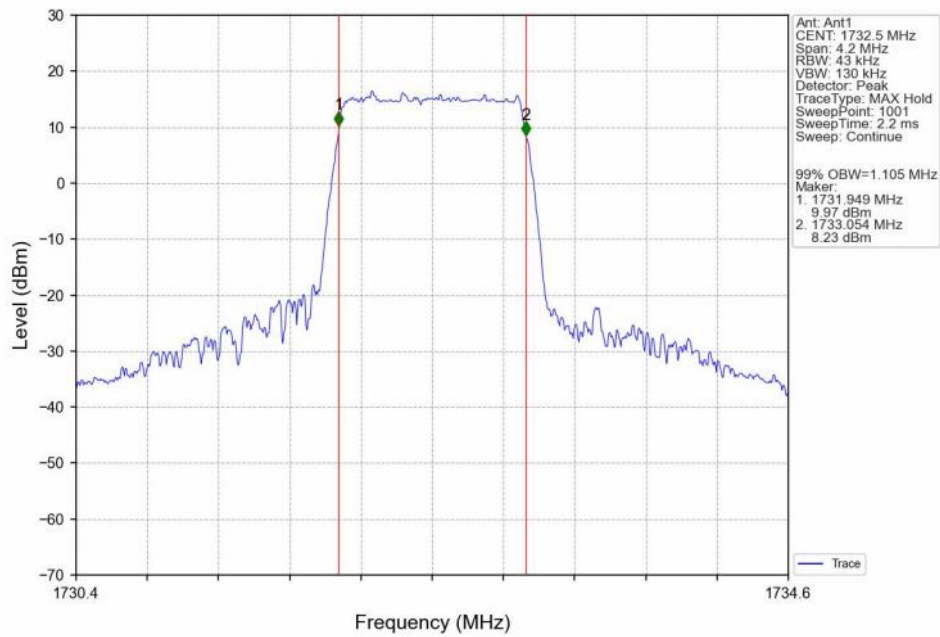
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



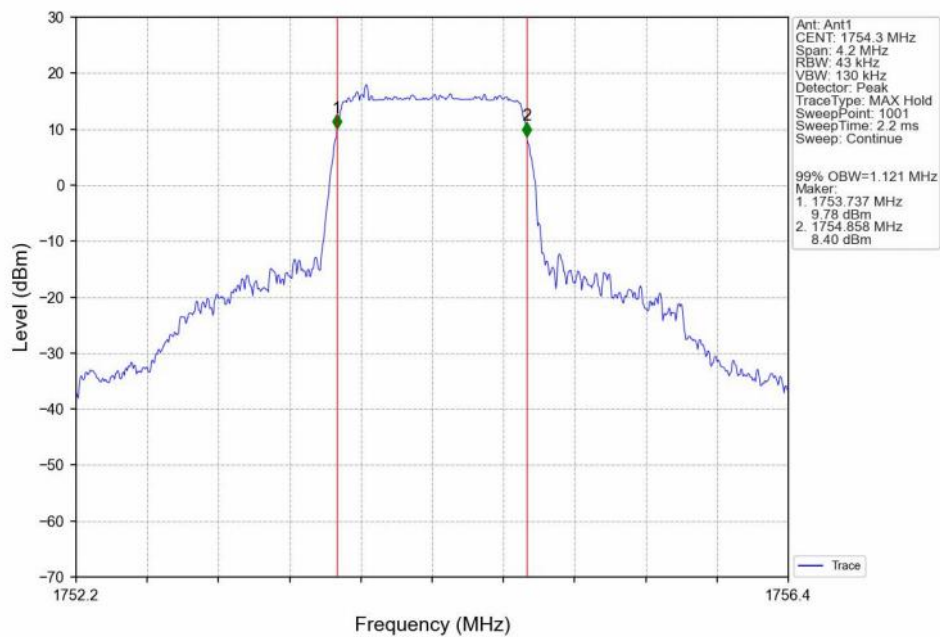
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



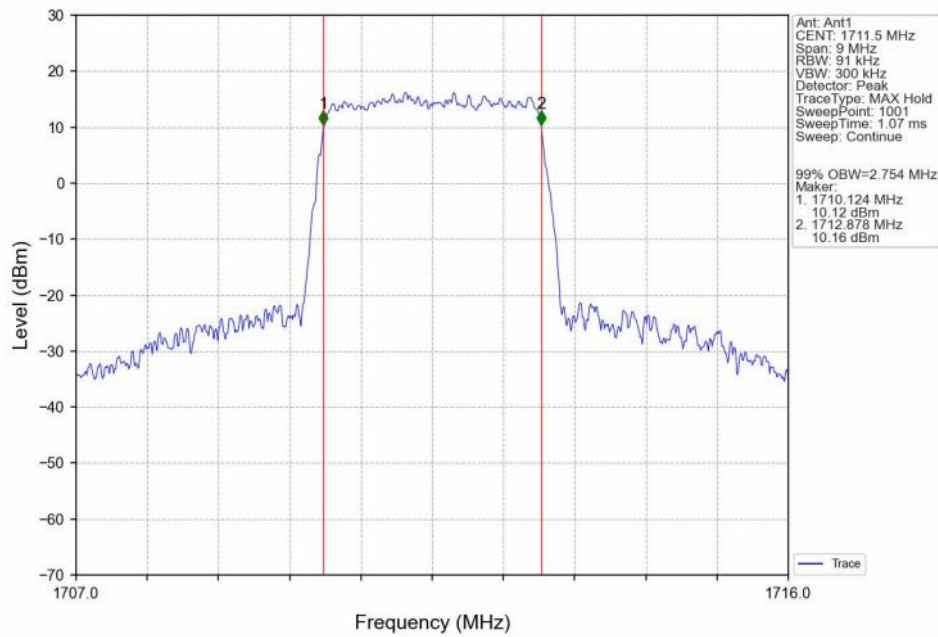
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



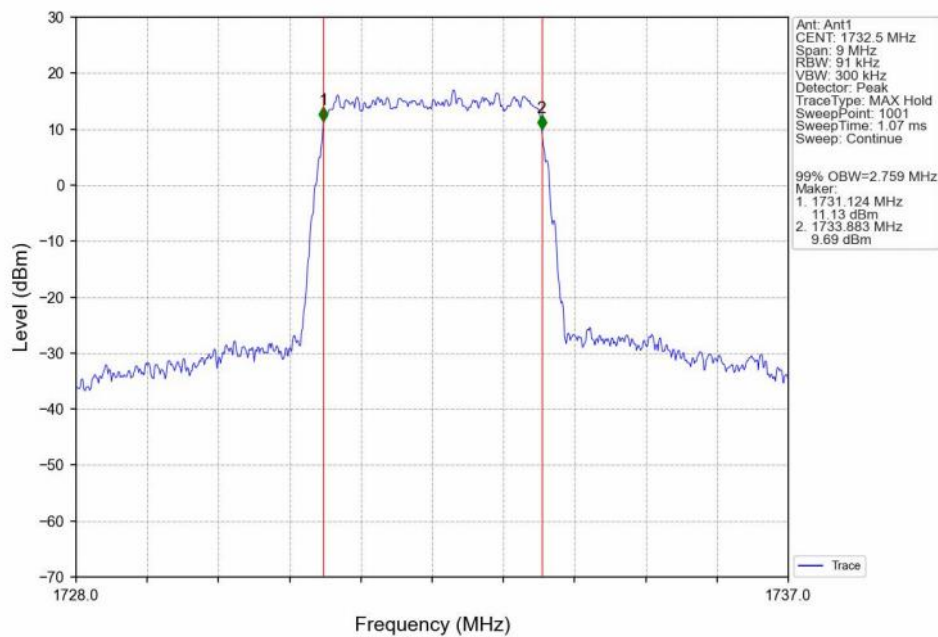
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



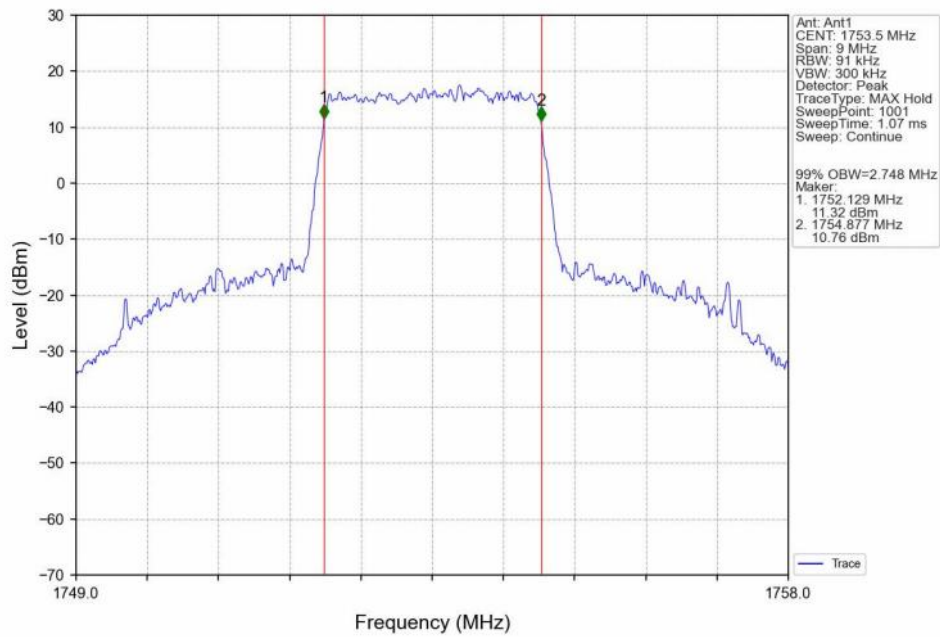
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



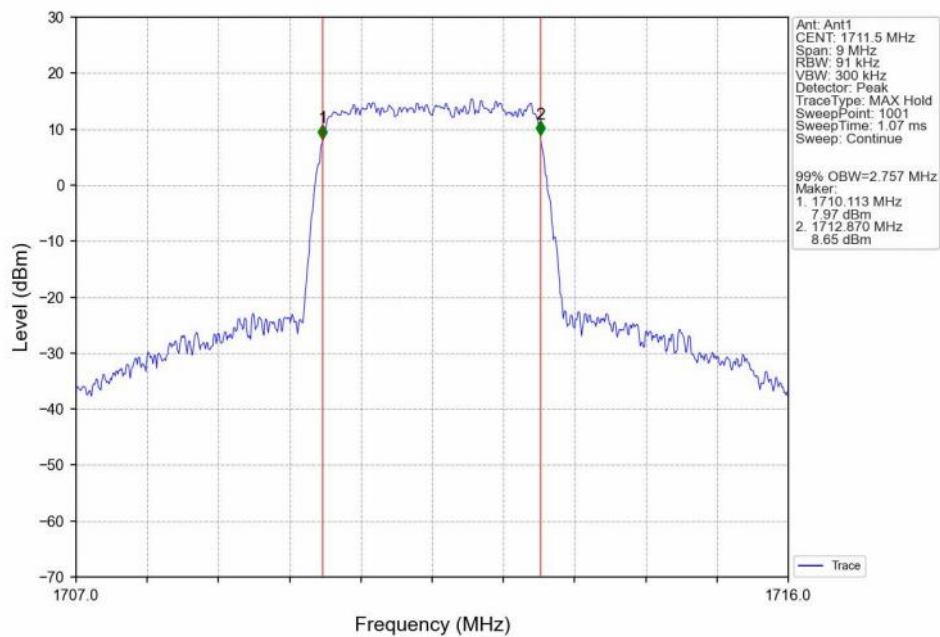
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



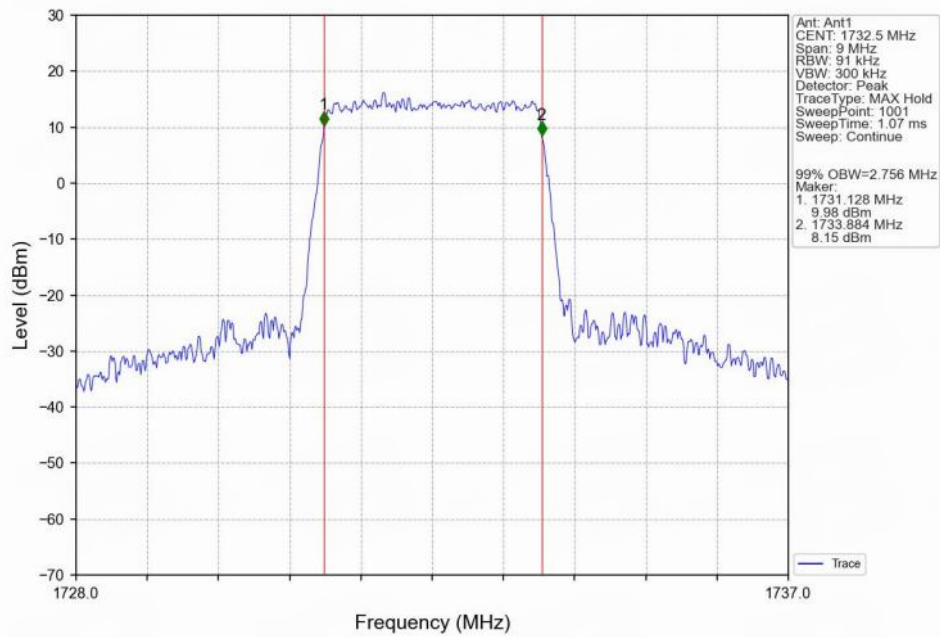
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



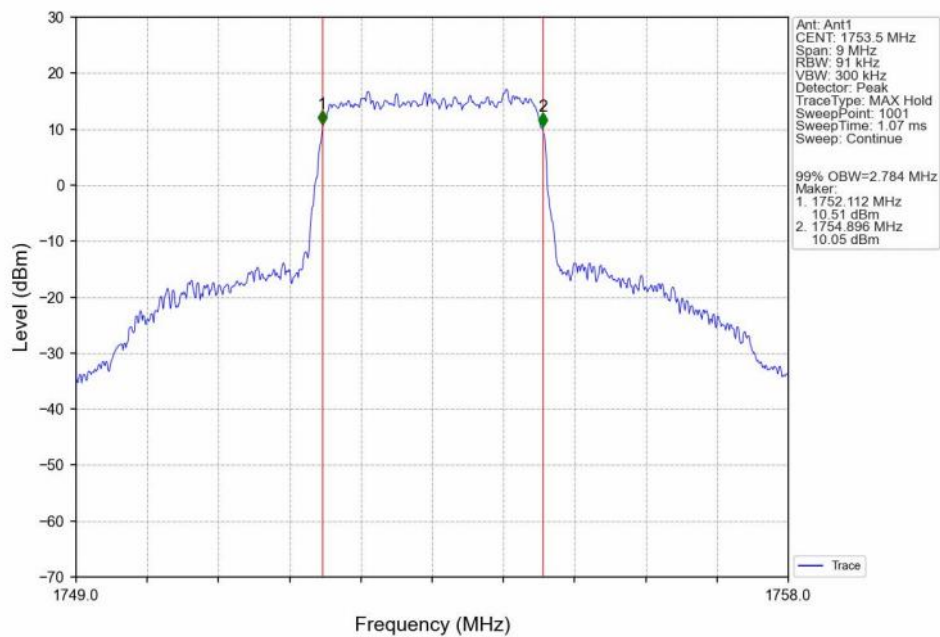
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



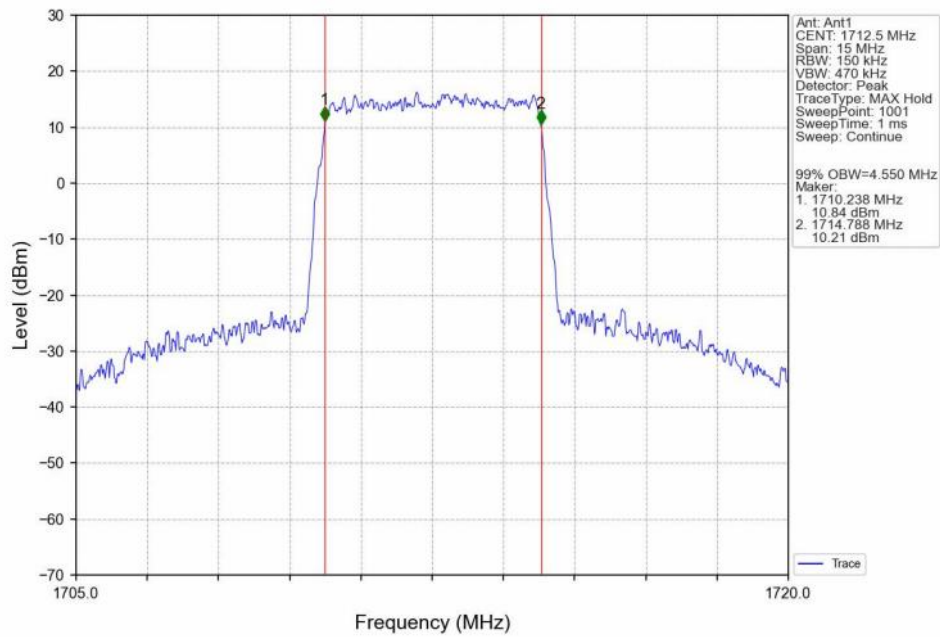
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



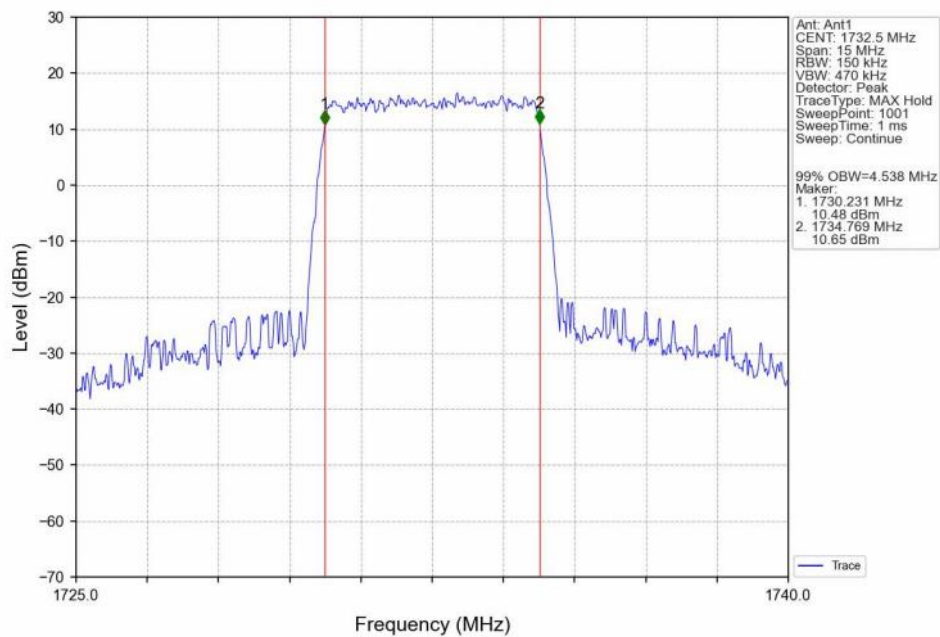
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



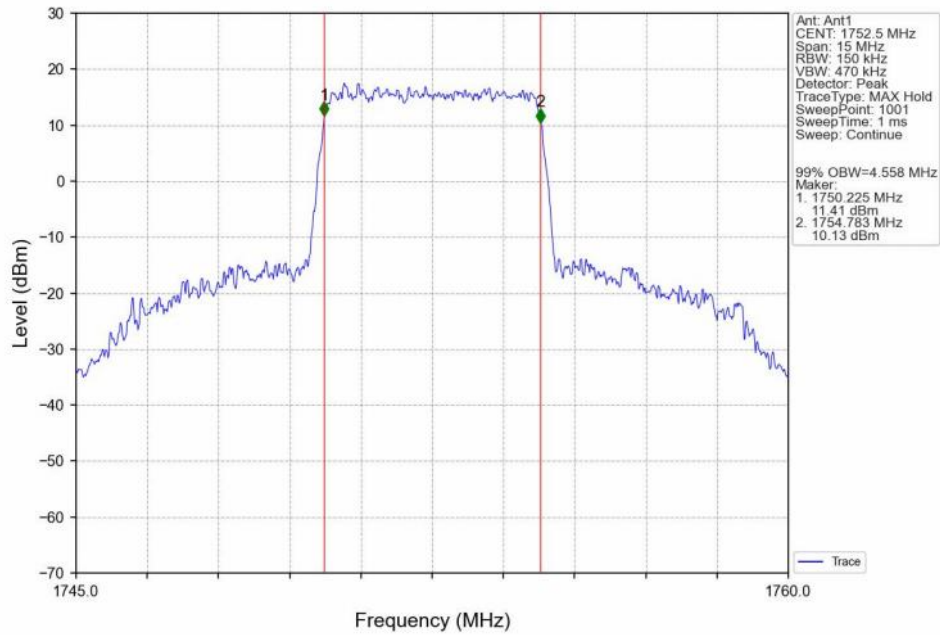
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



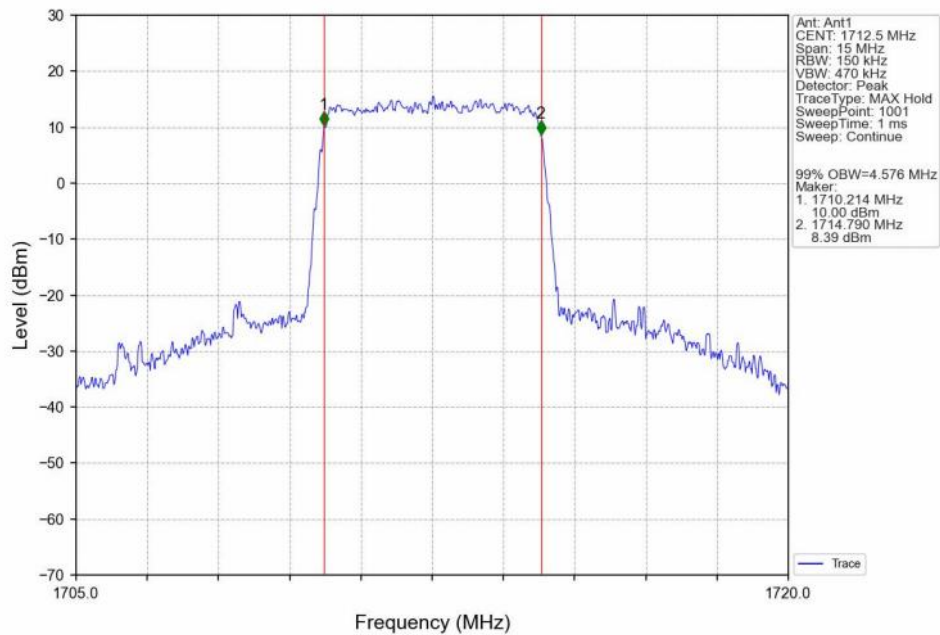
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



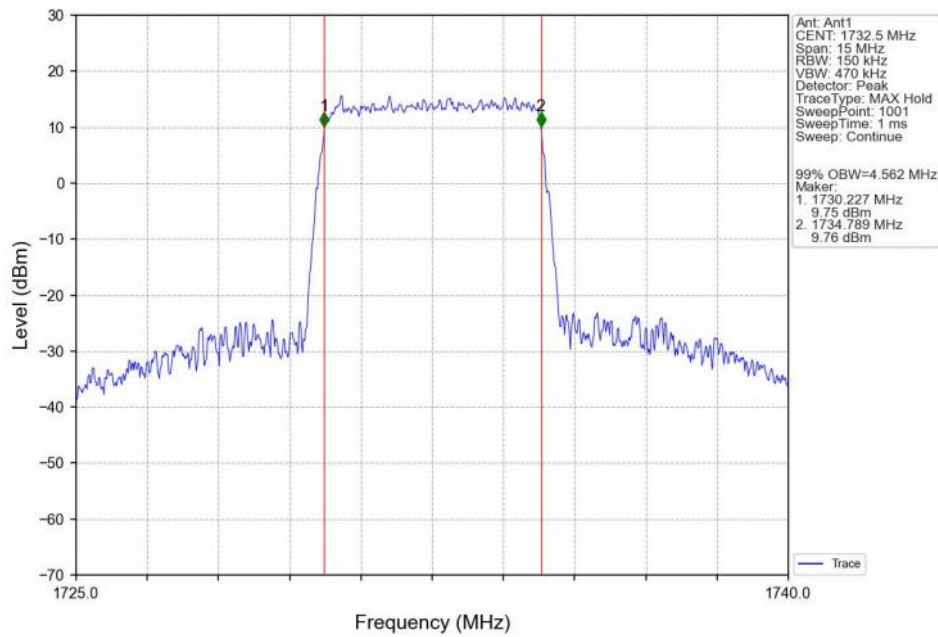
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



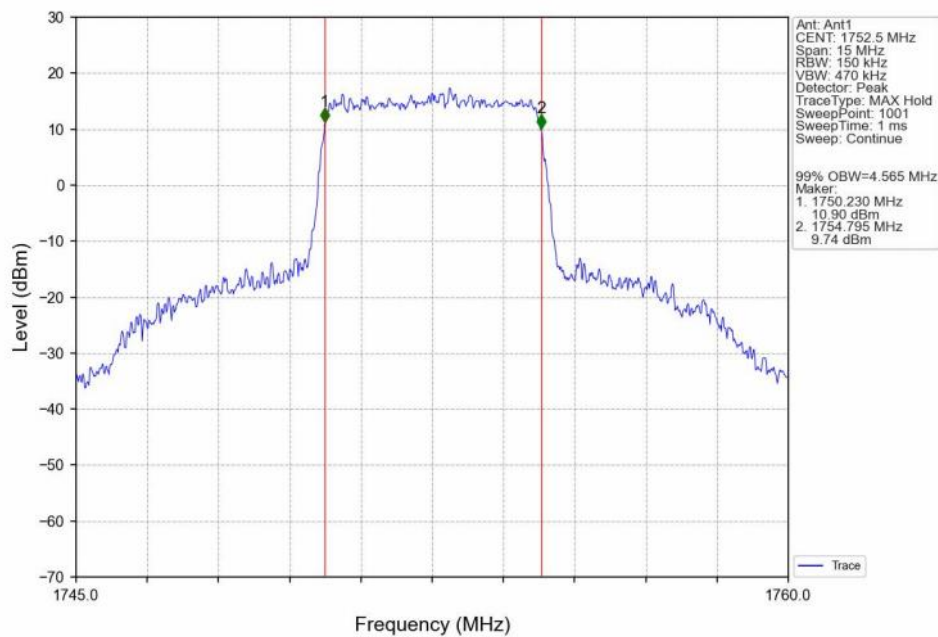
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



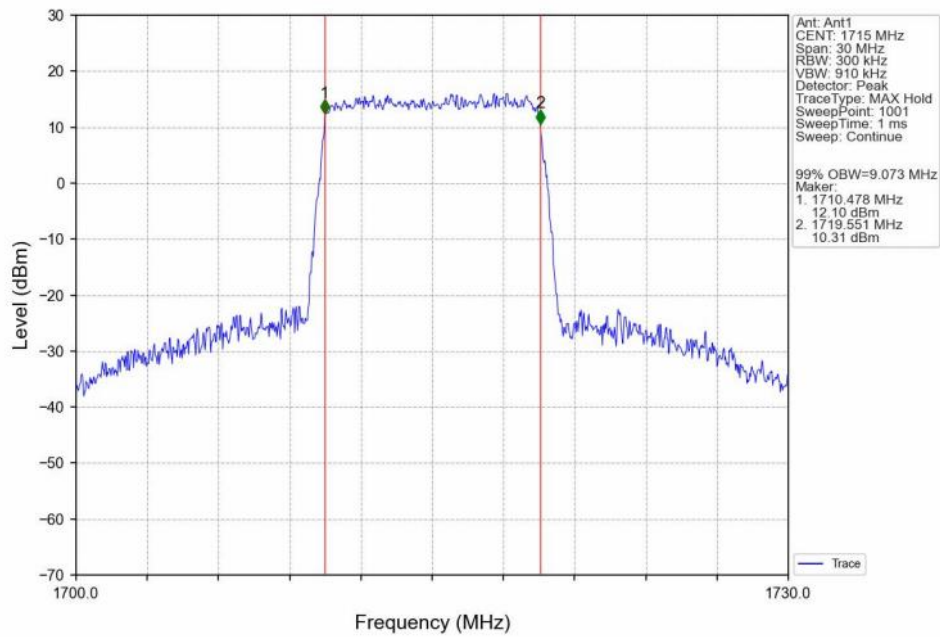
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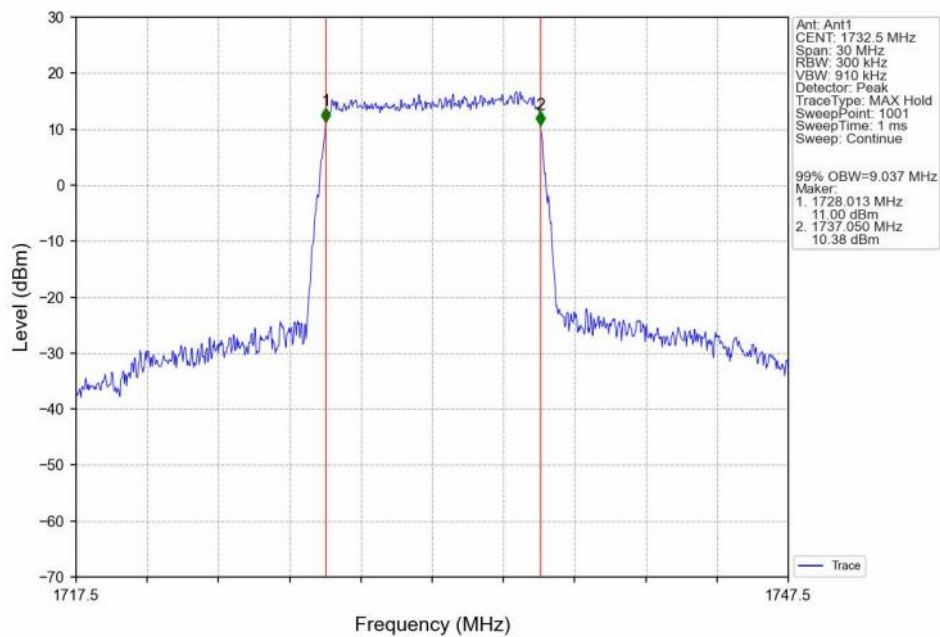
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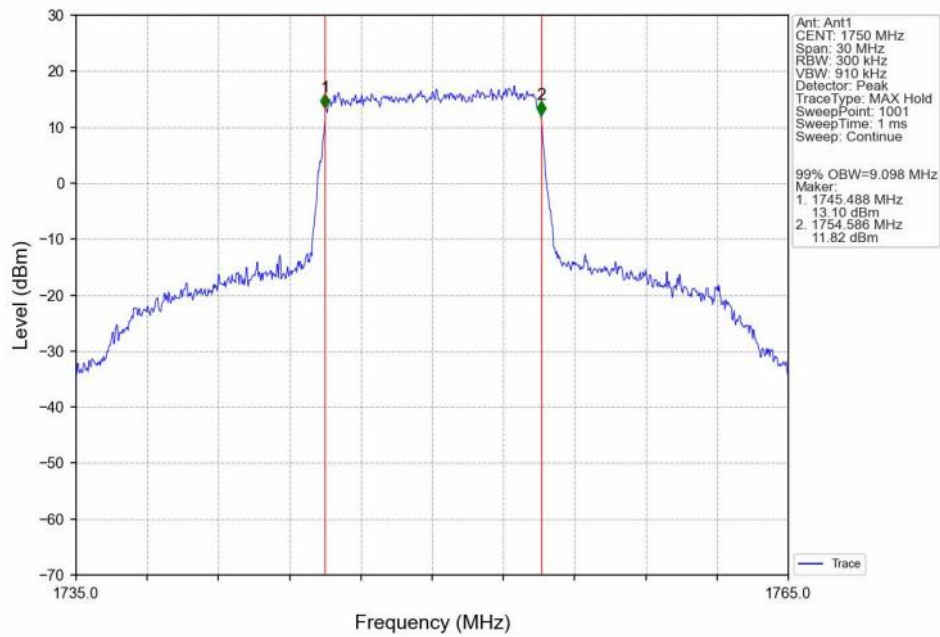
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



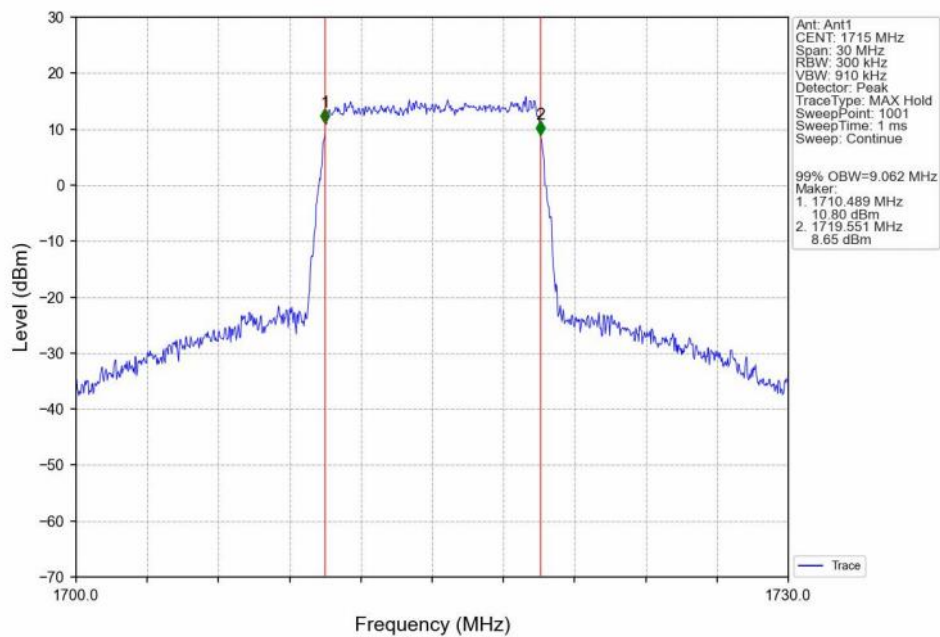
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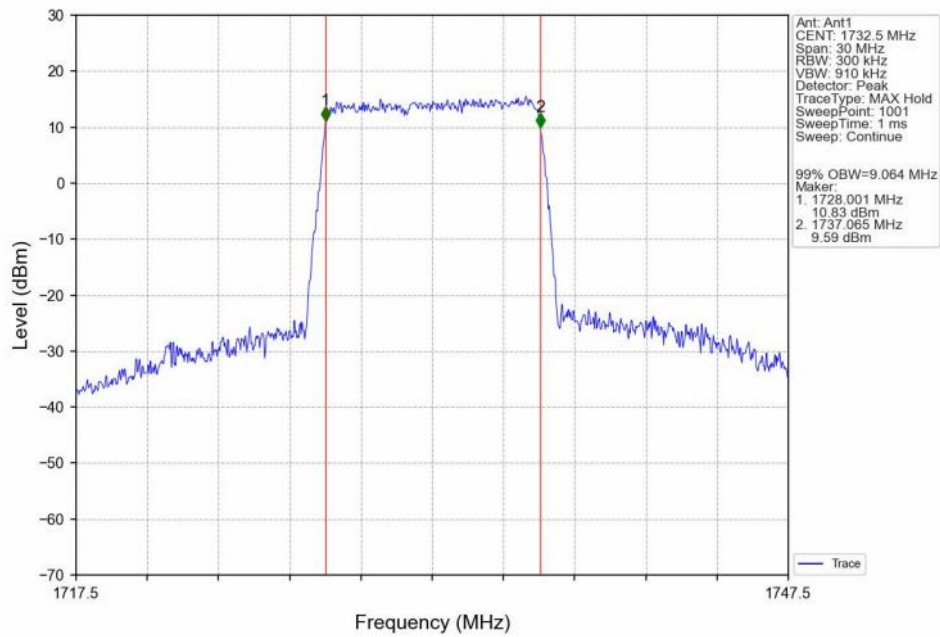
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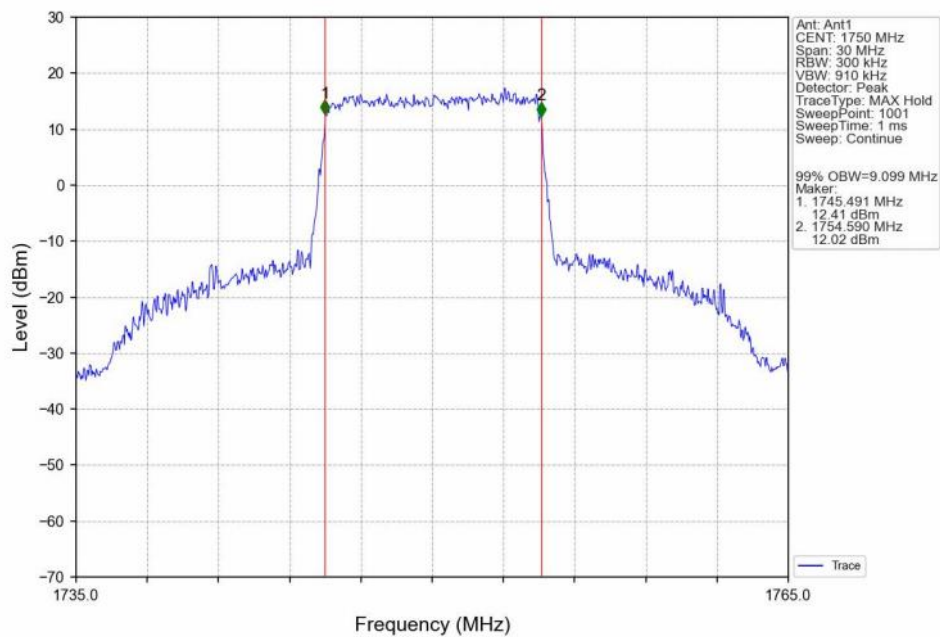
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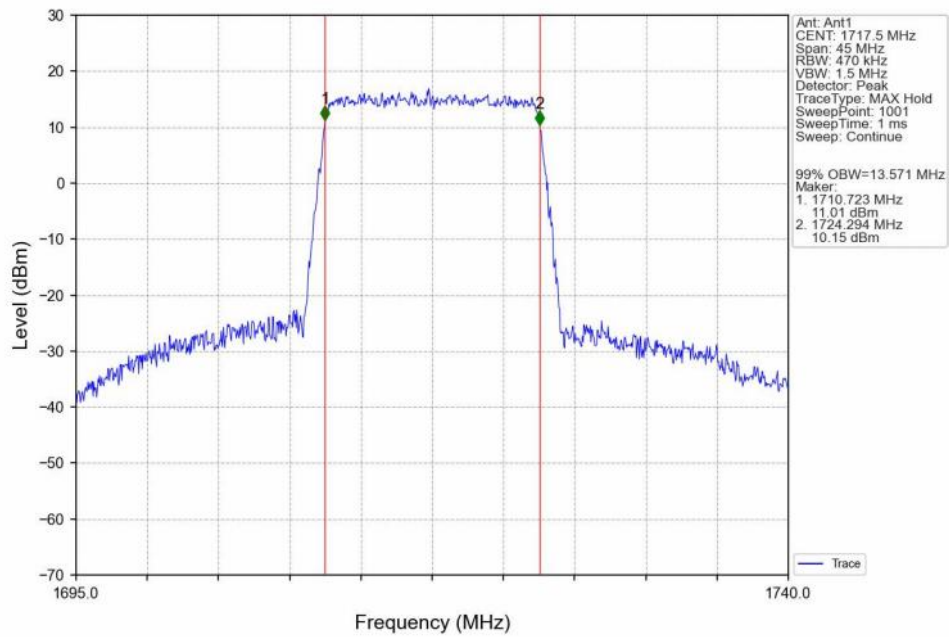
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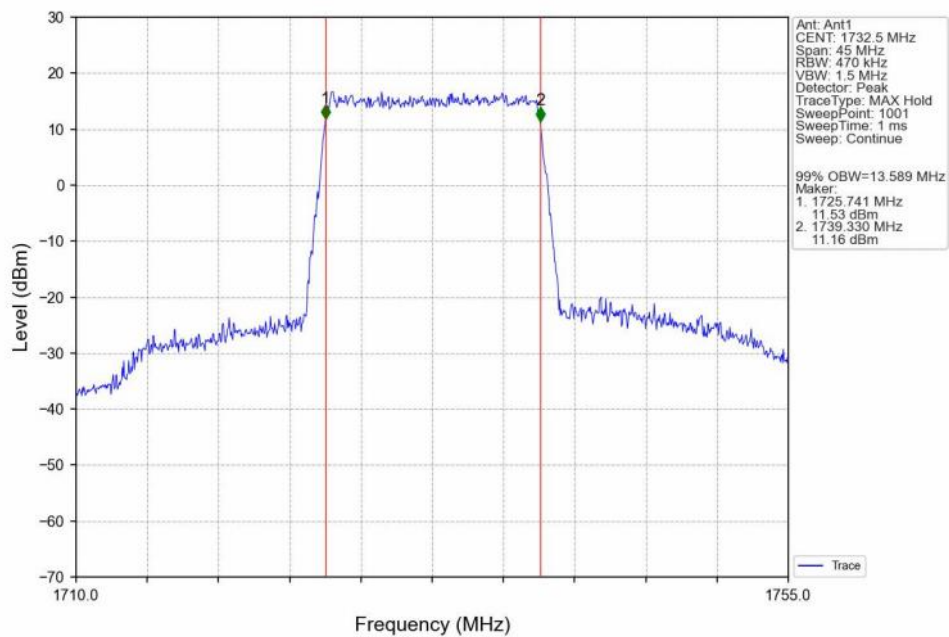
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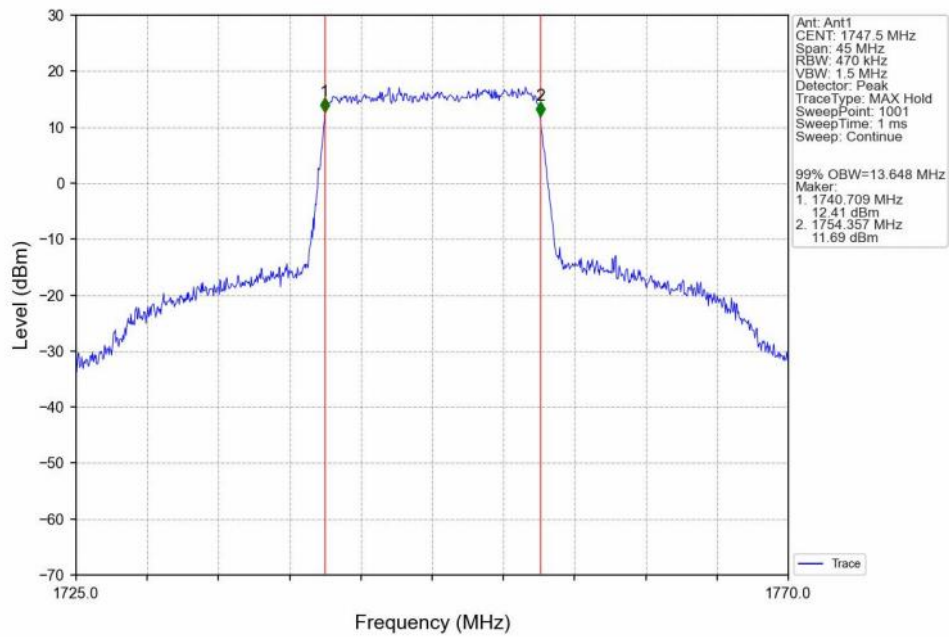
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



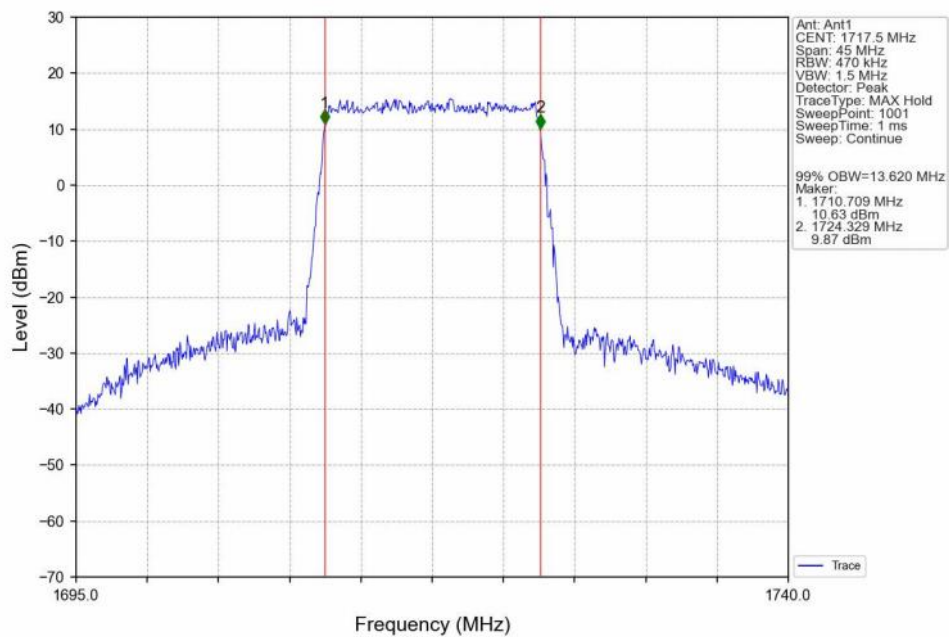
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



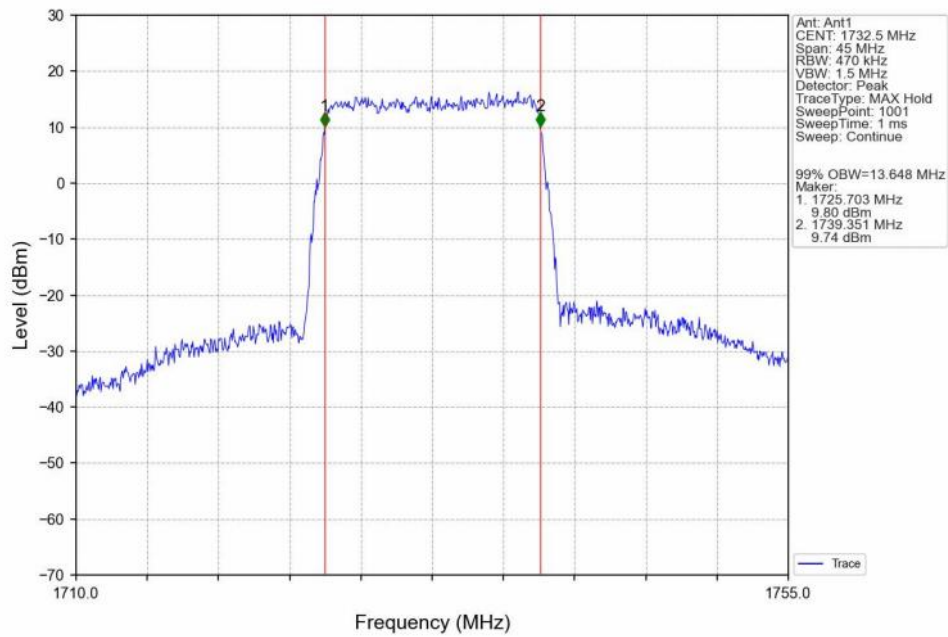
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



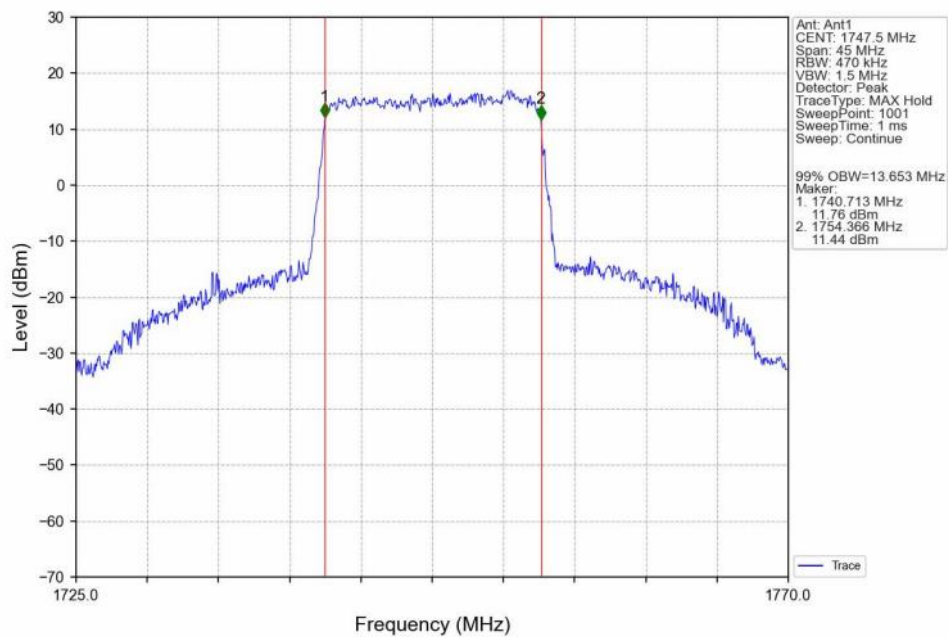
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



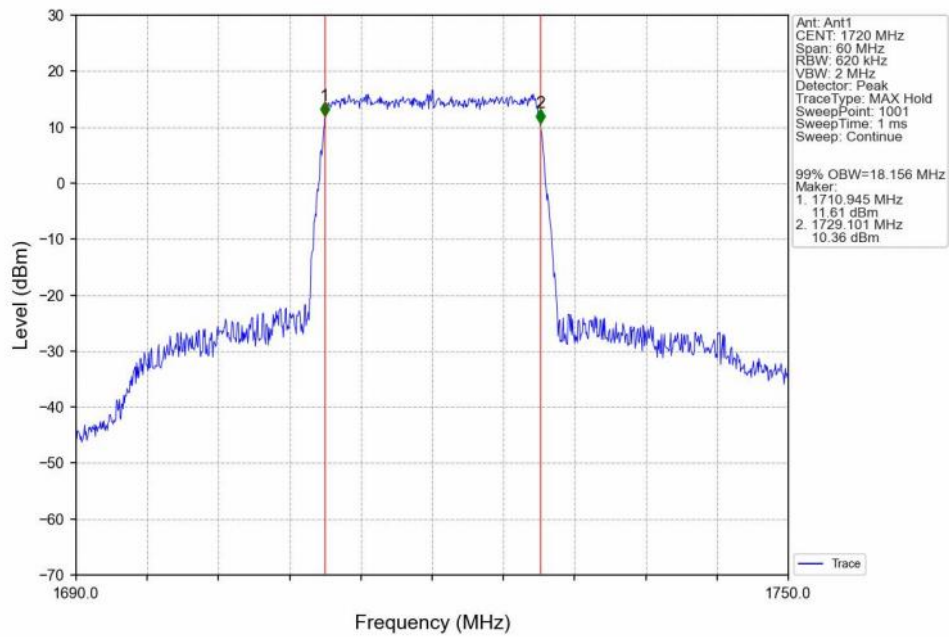
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



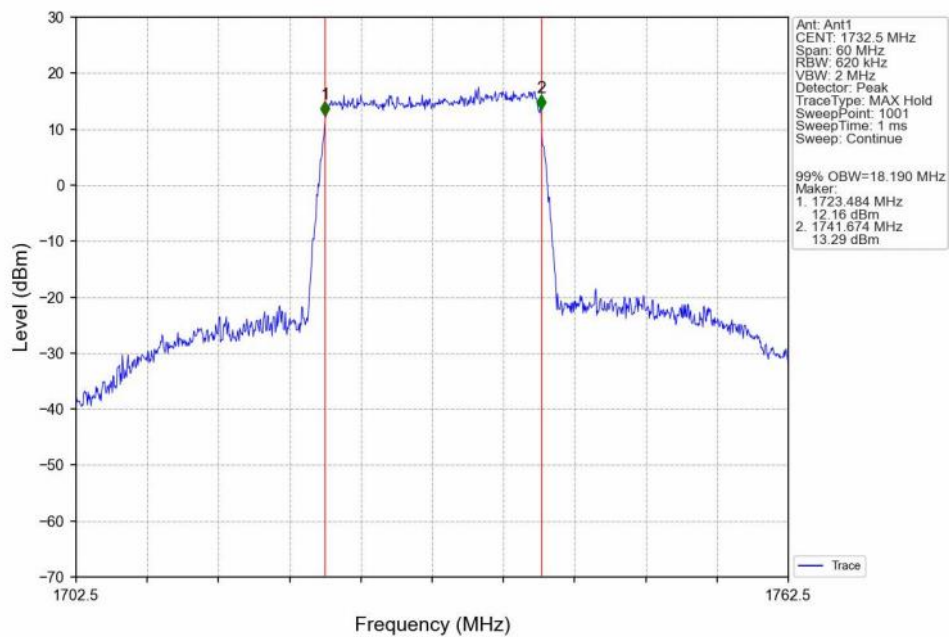
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



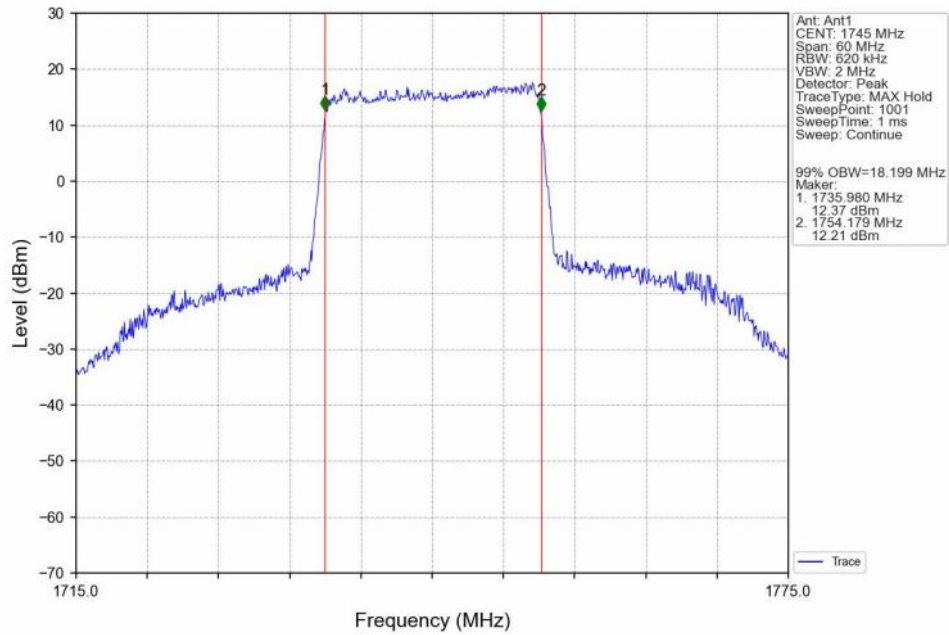
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



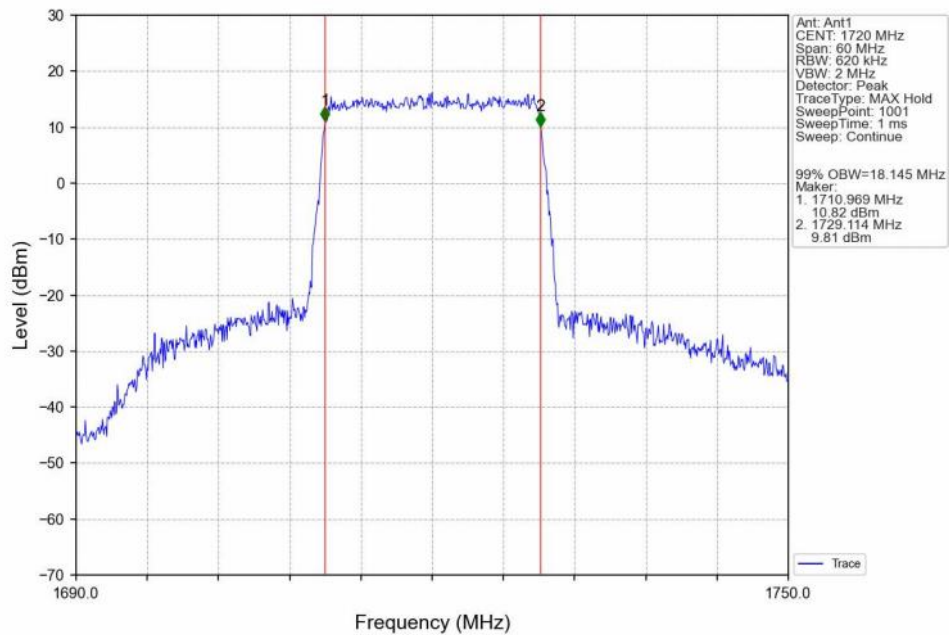
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



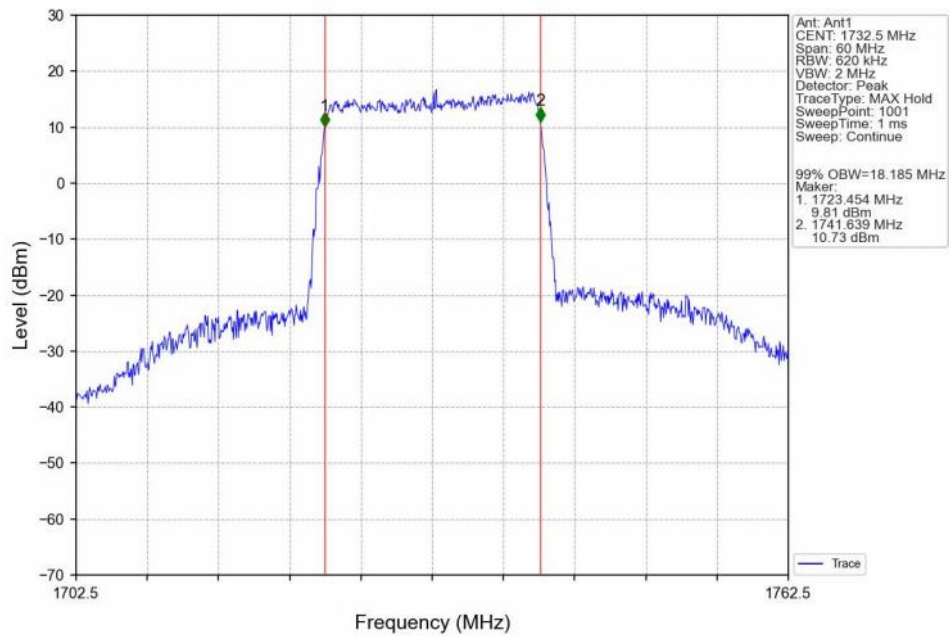
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



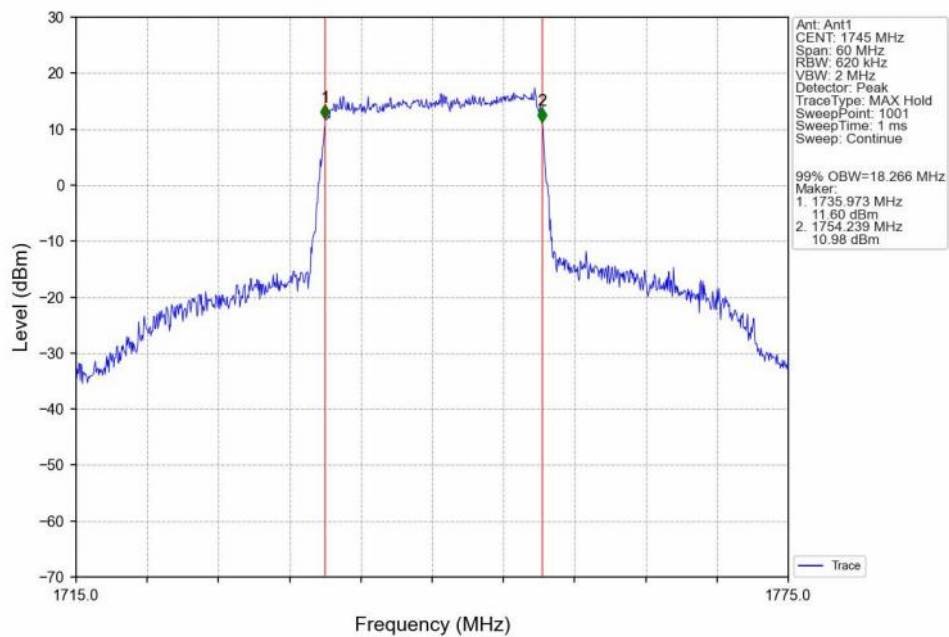
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



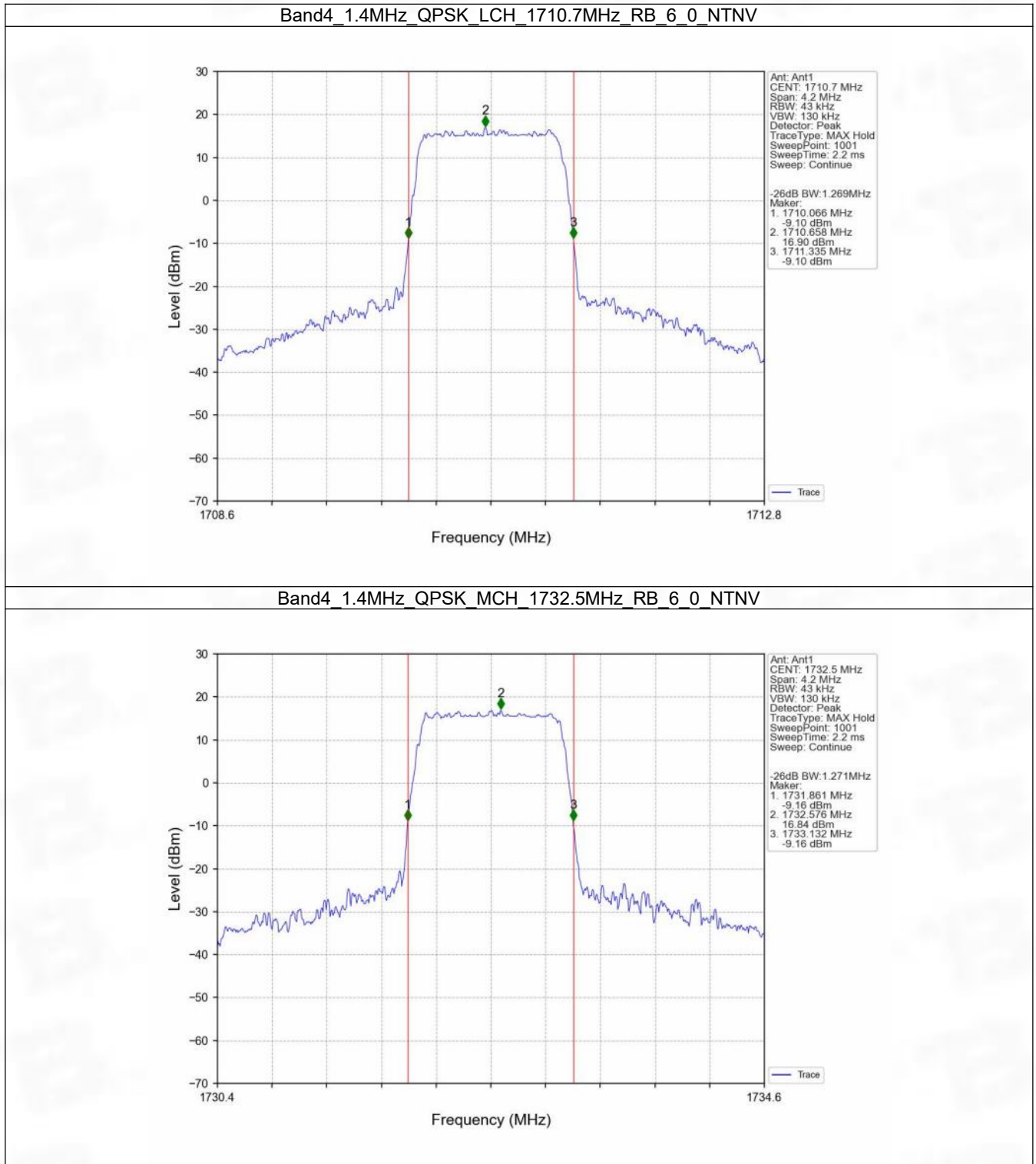
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



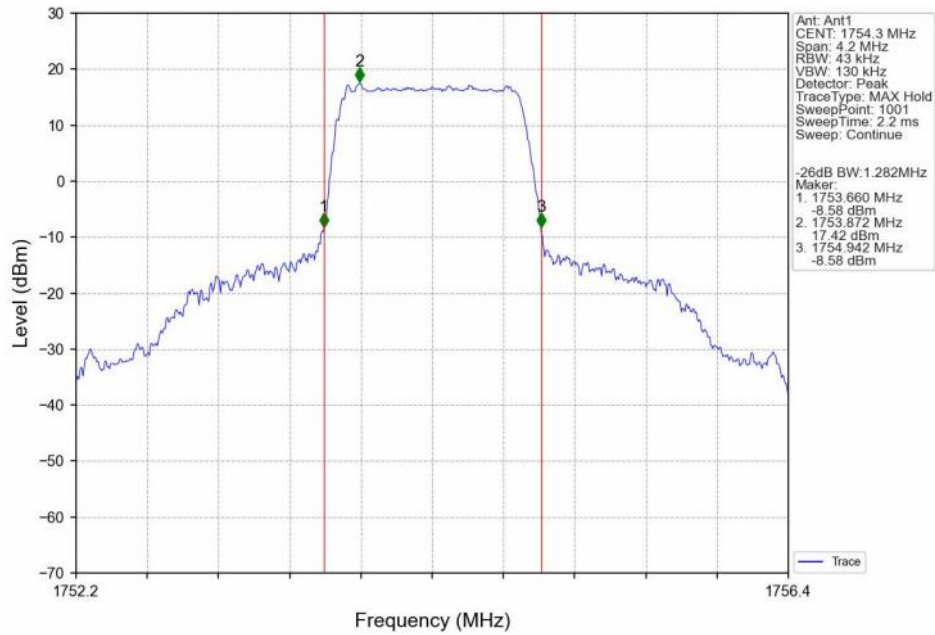
Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



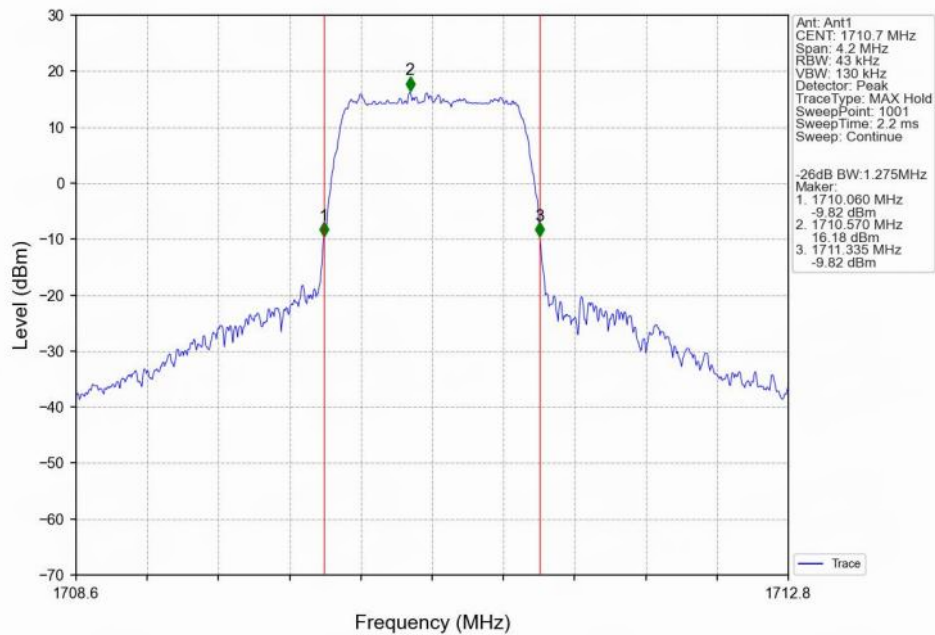
4.2.2 Band4_XDB



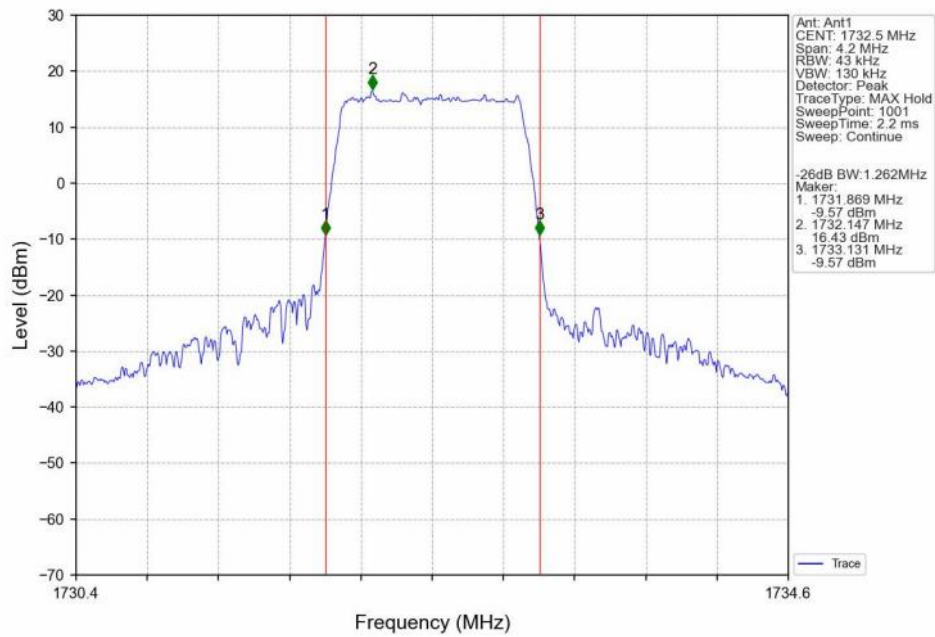
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



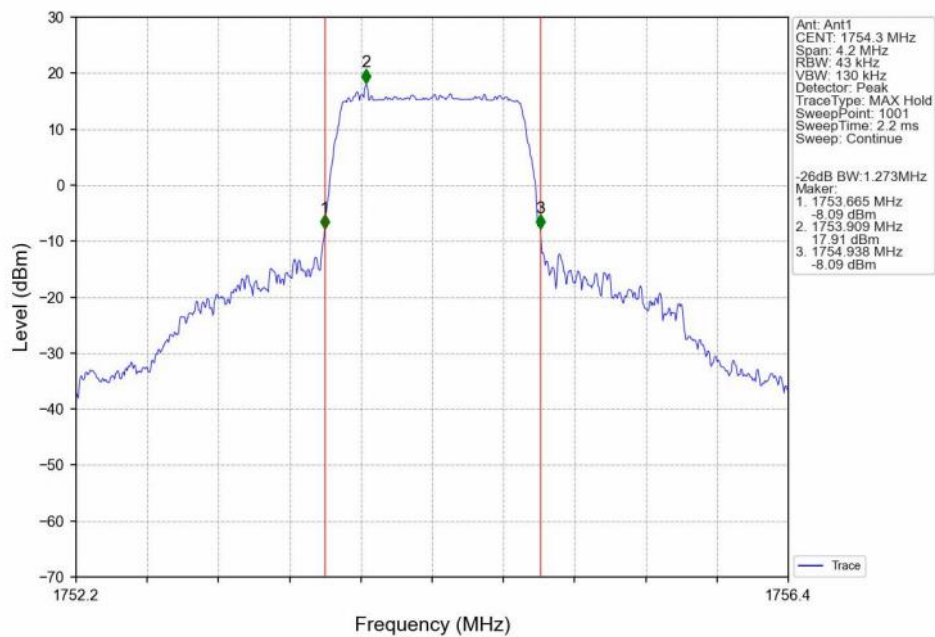
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



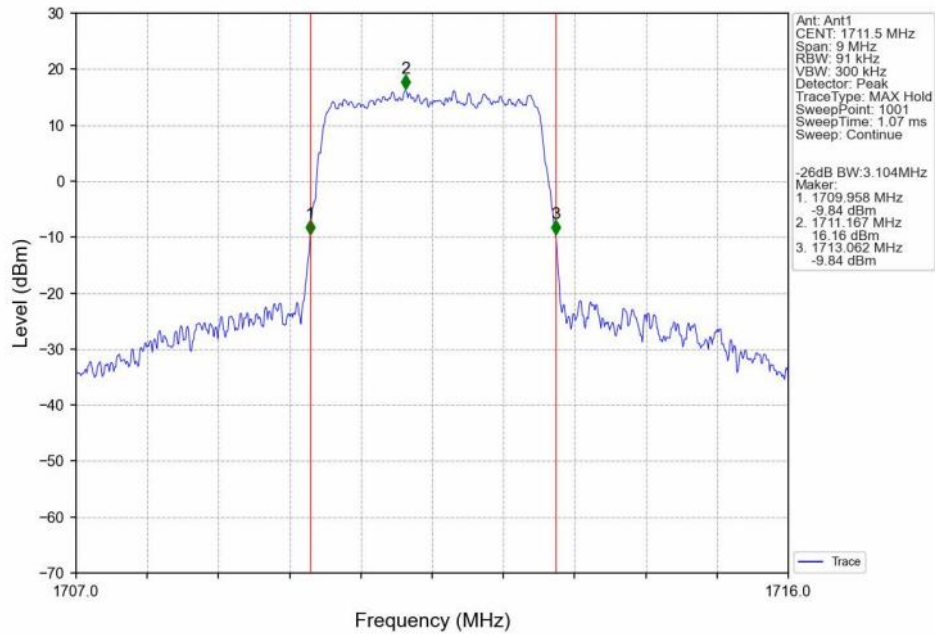
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



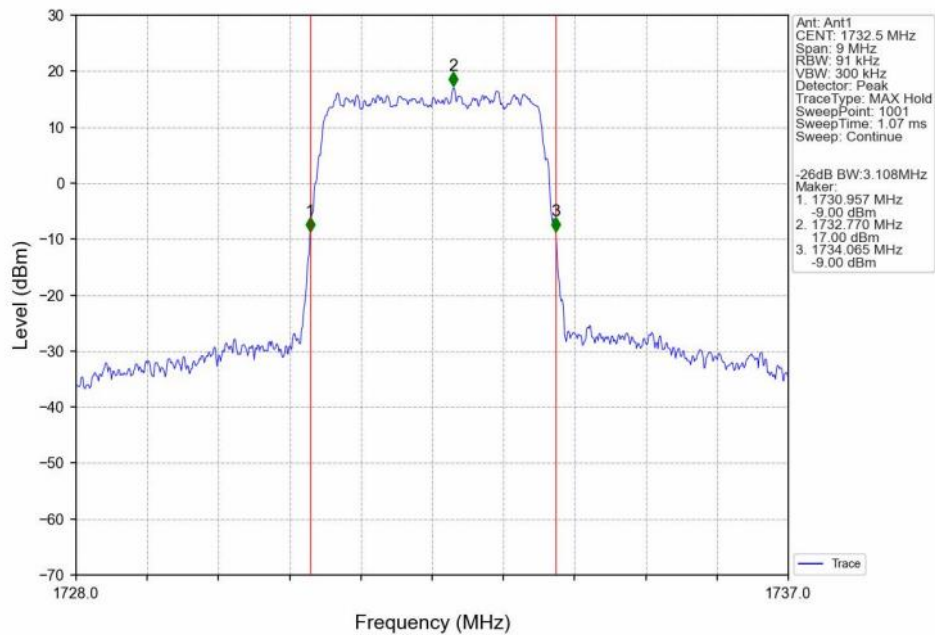
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



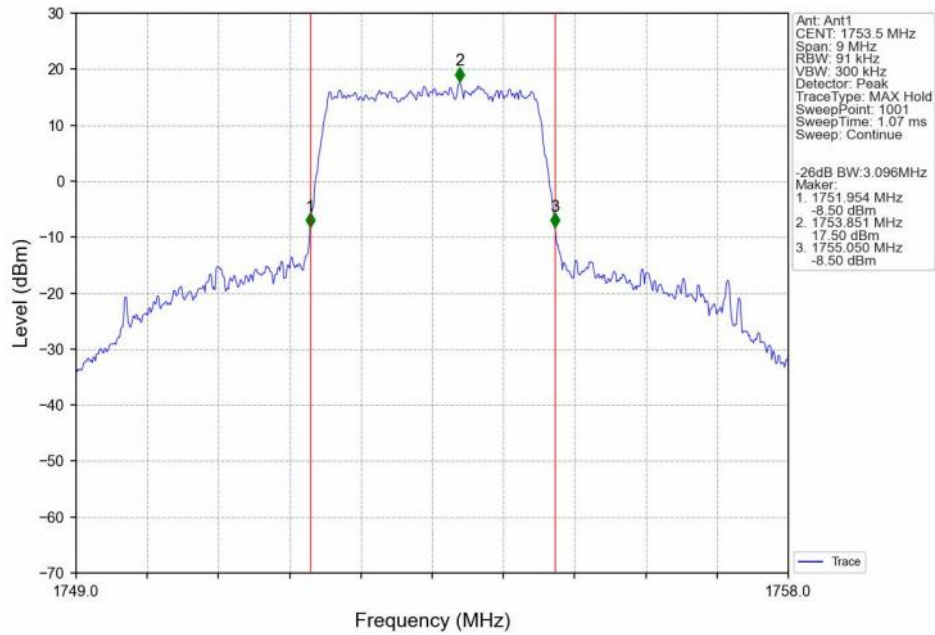
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



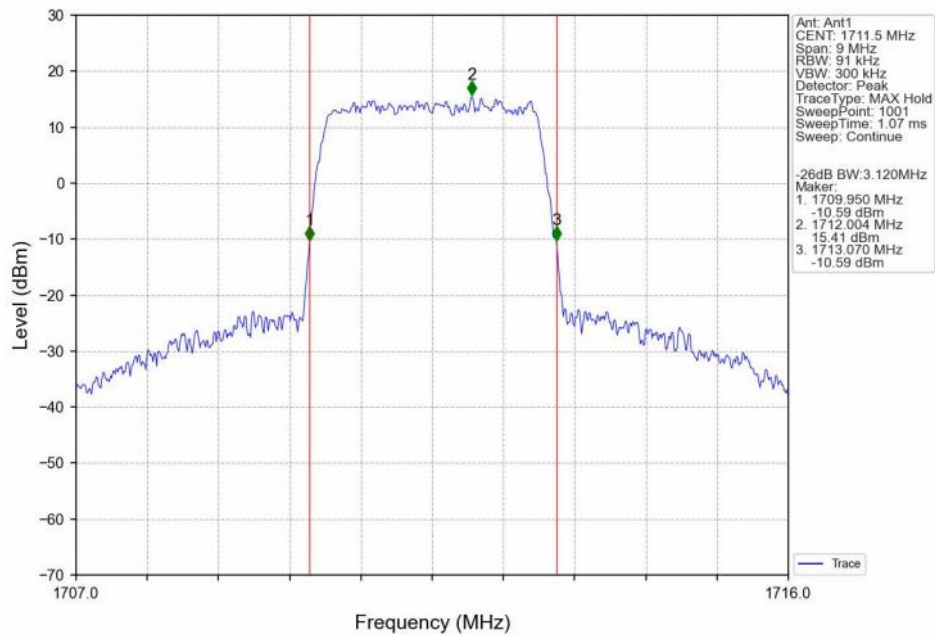
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



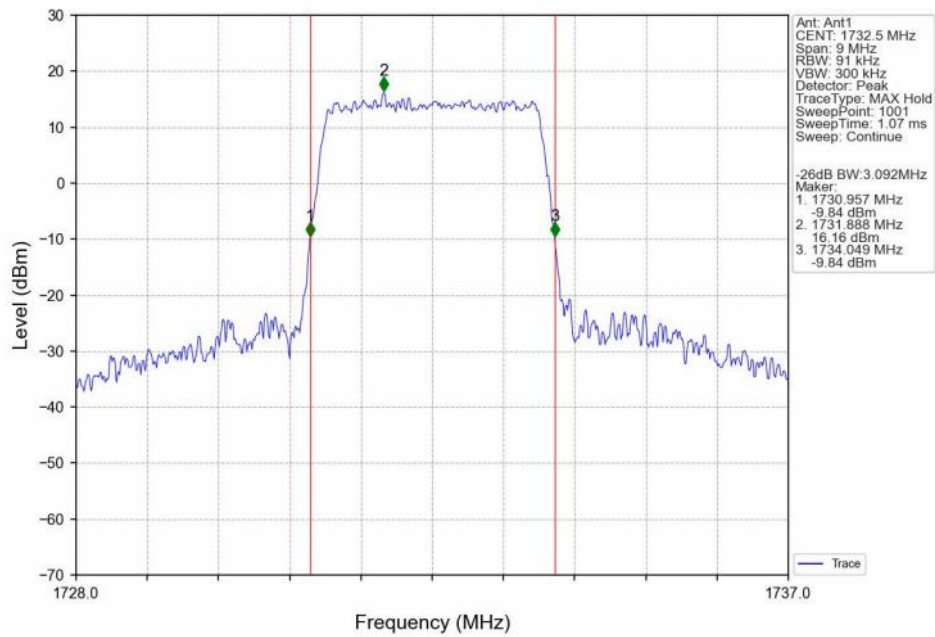
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



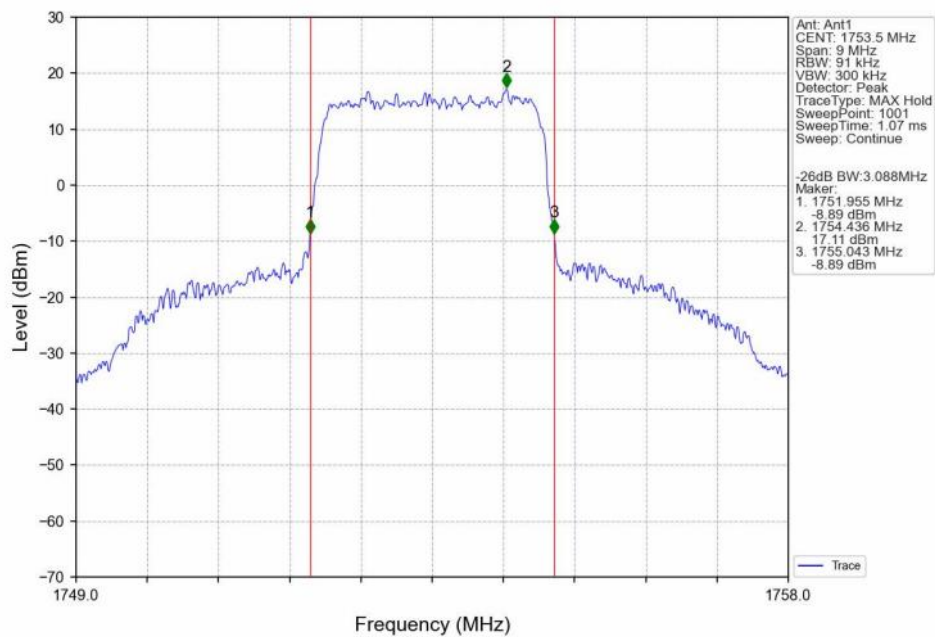
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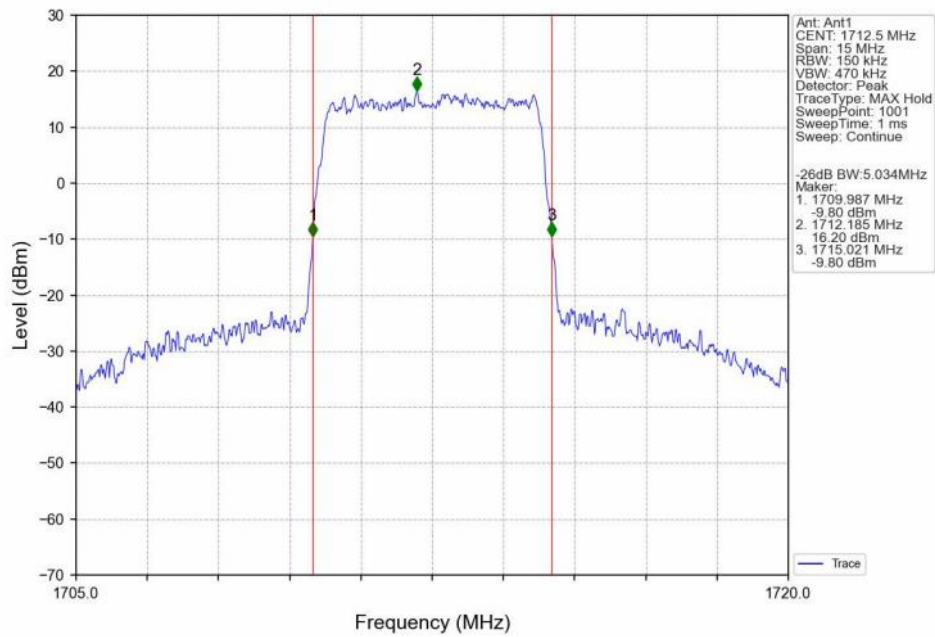
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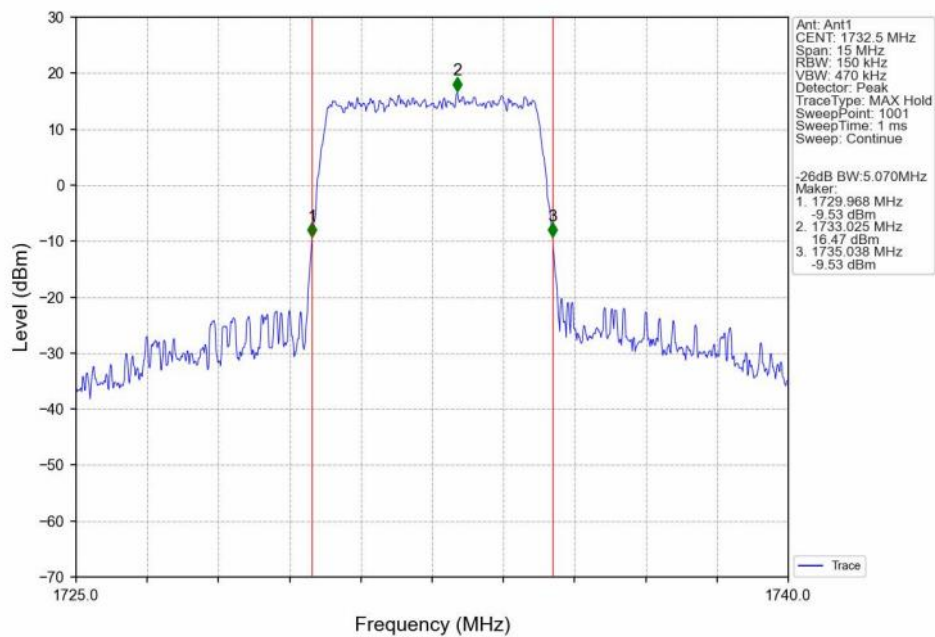
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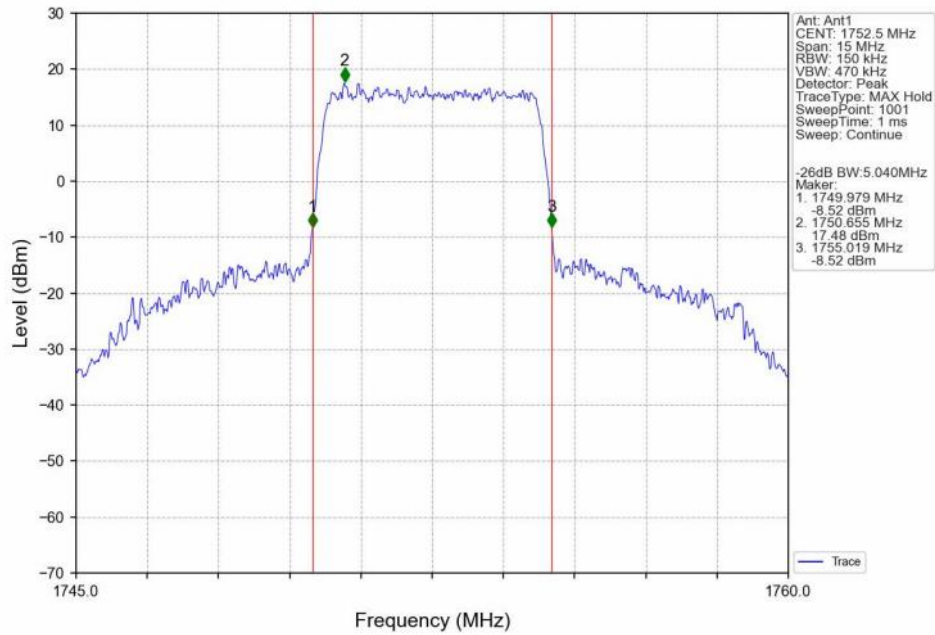
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



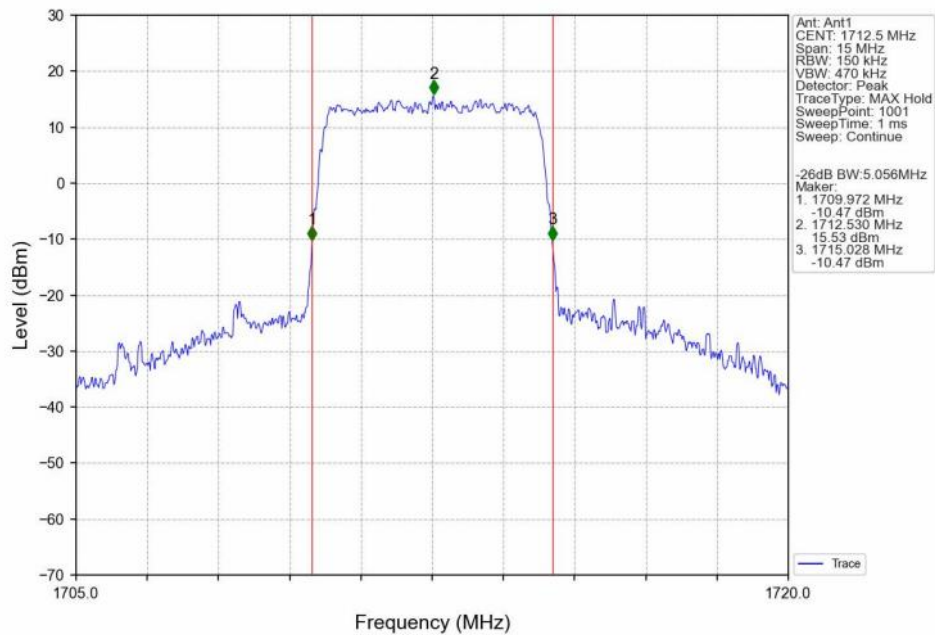
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



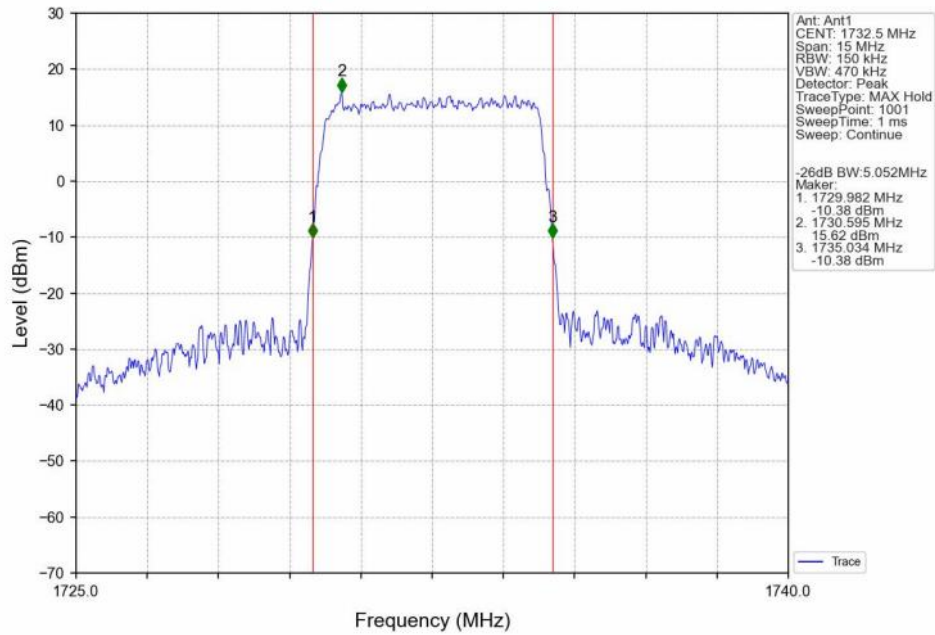
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



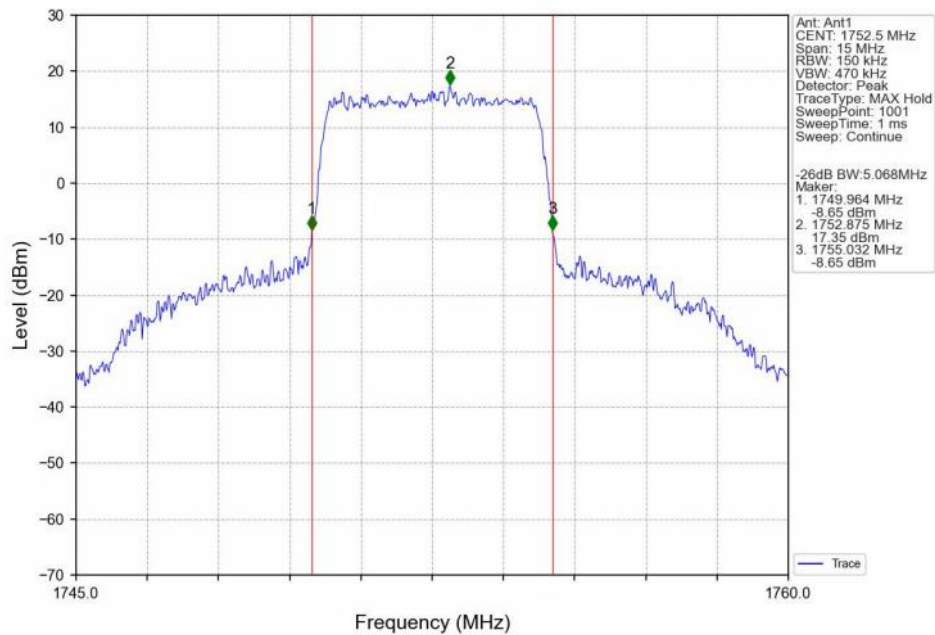
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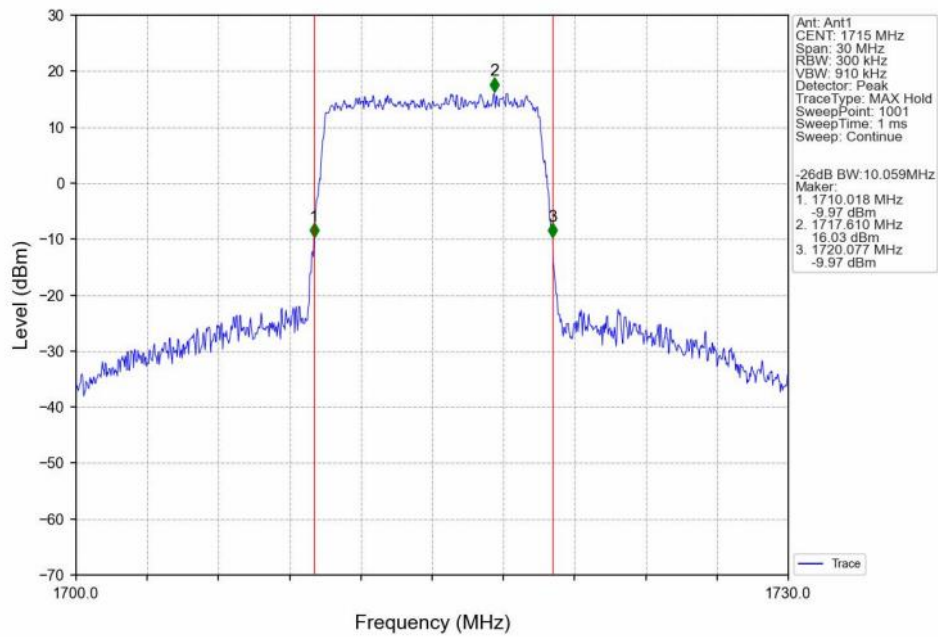
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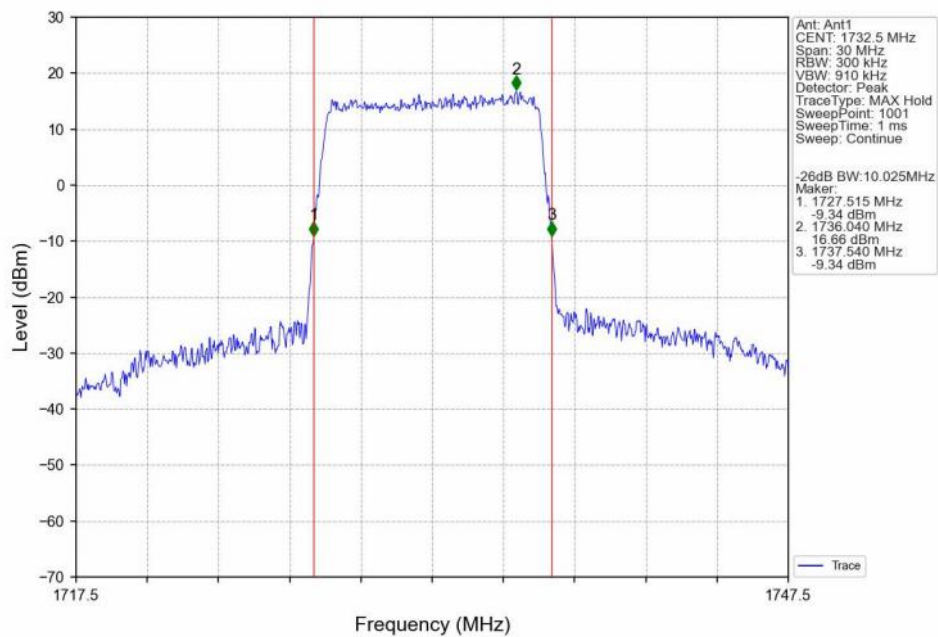
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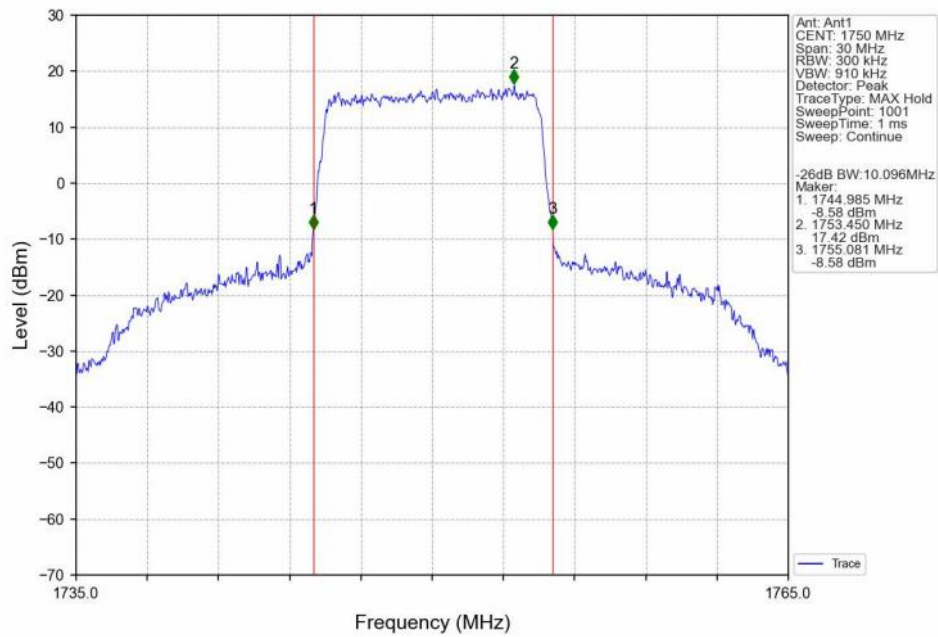
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



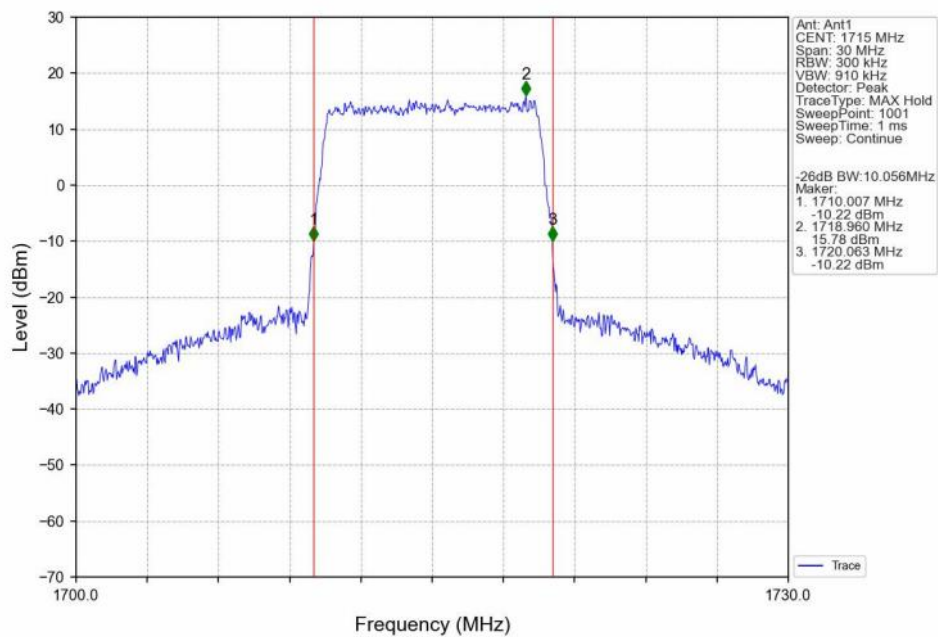
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



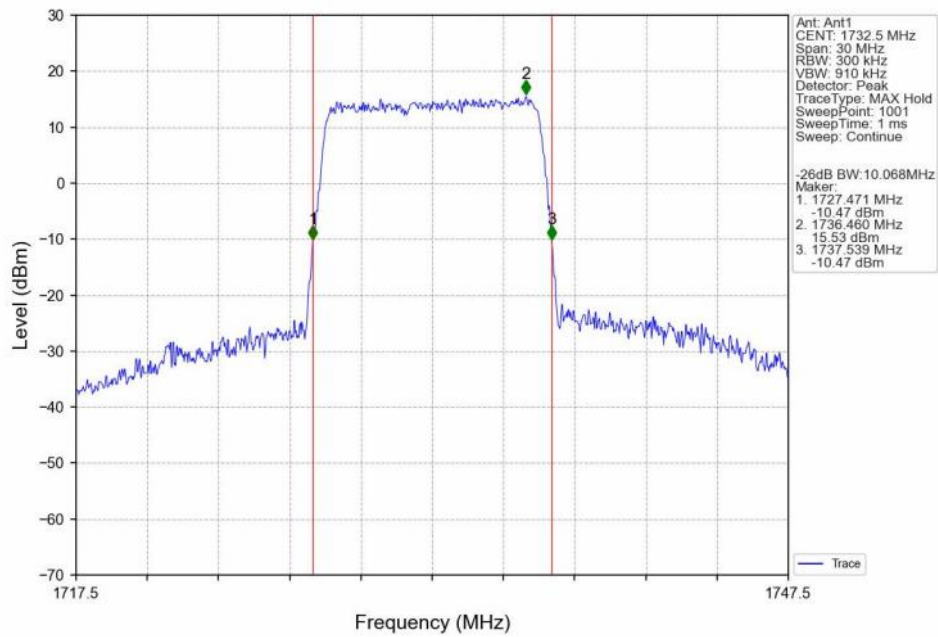
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



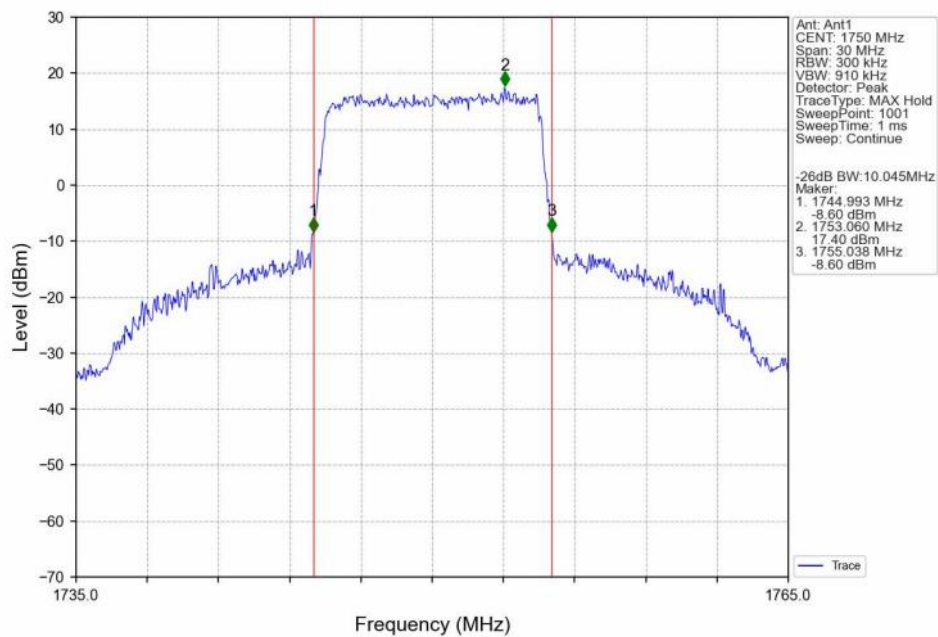
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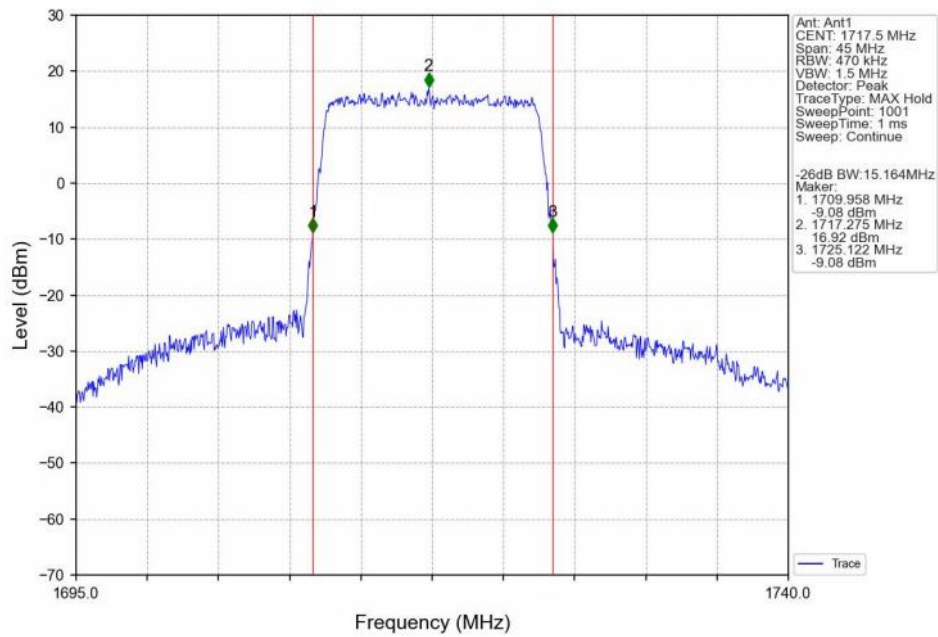
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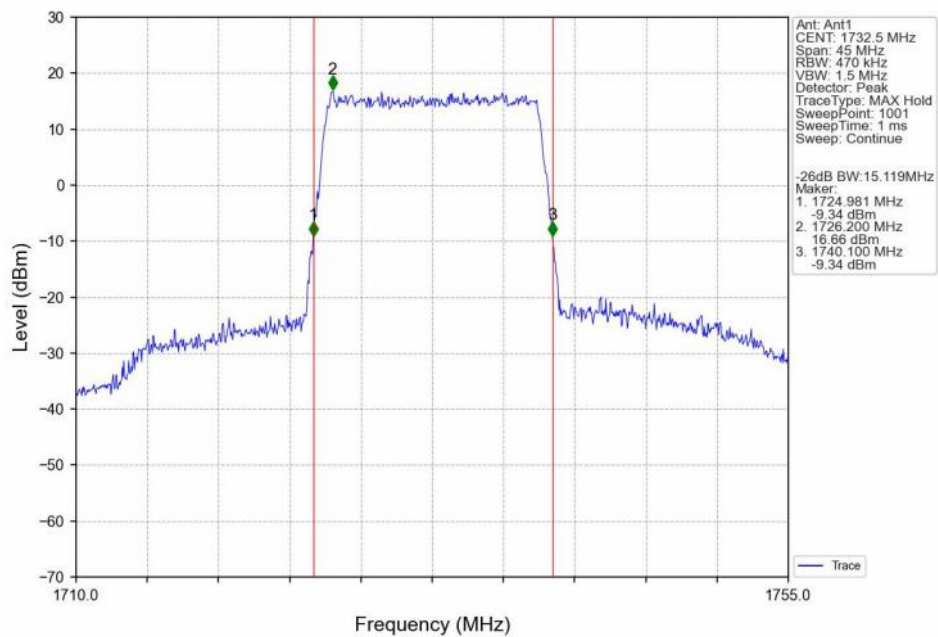
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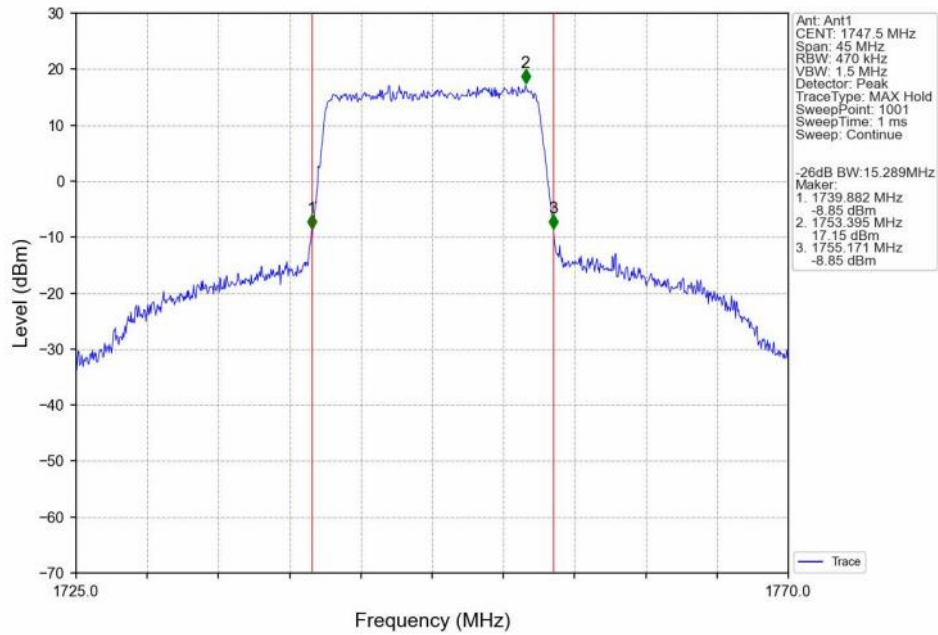
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



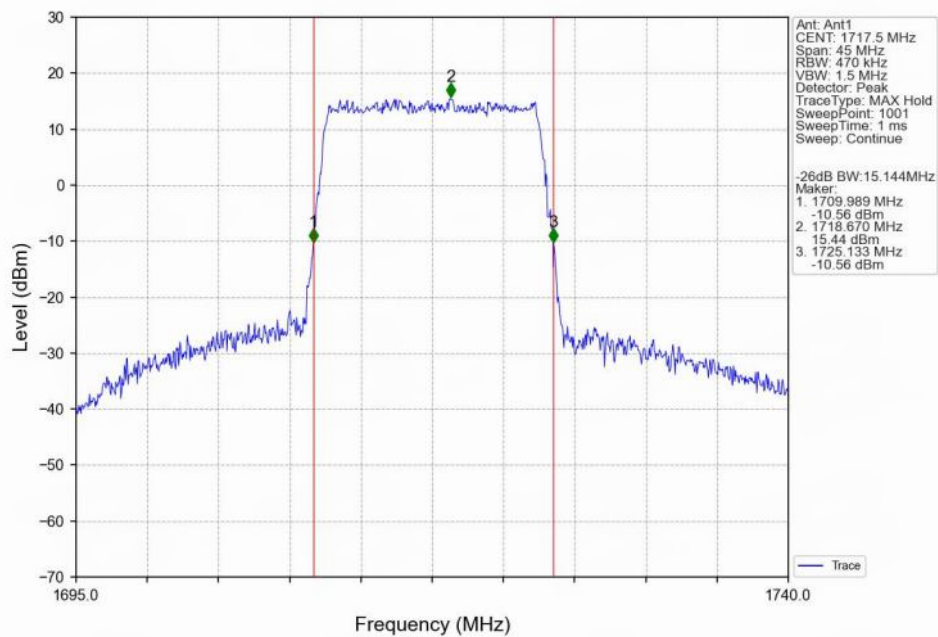
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



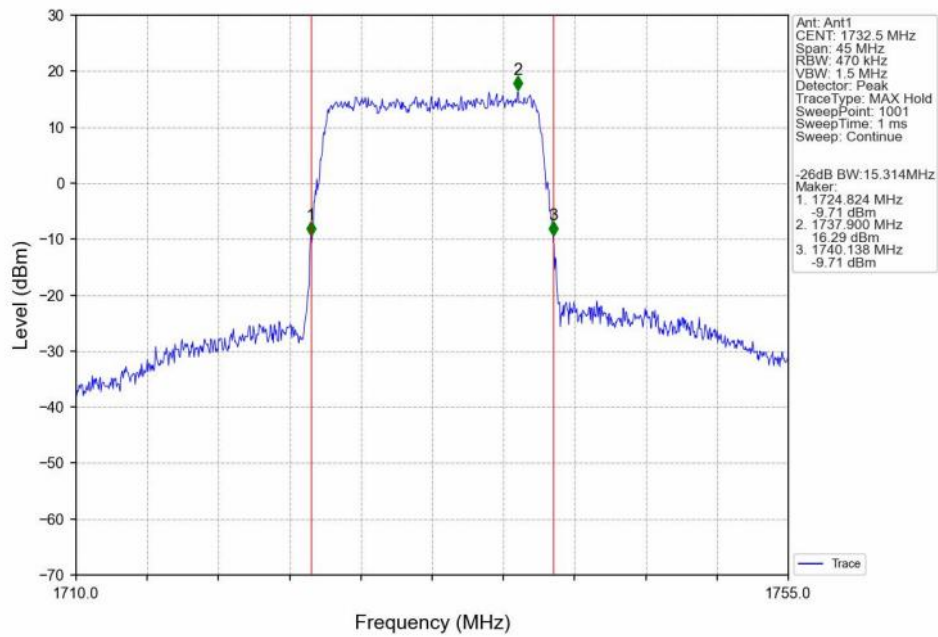
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



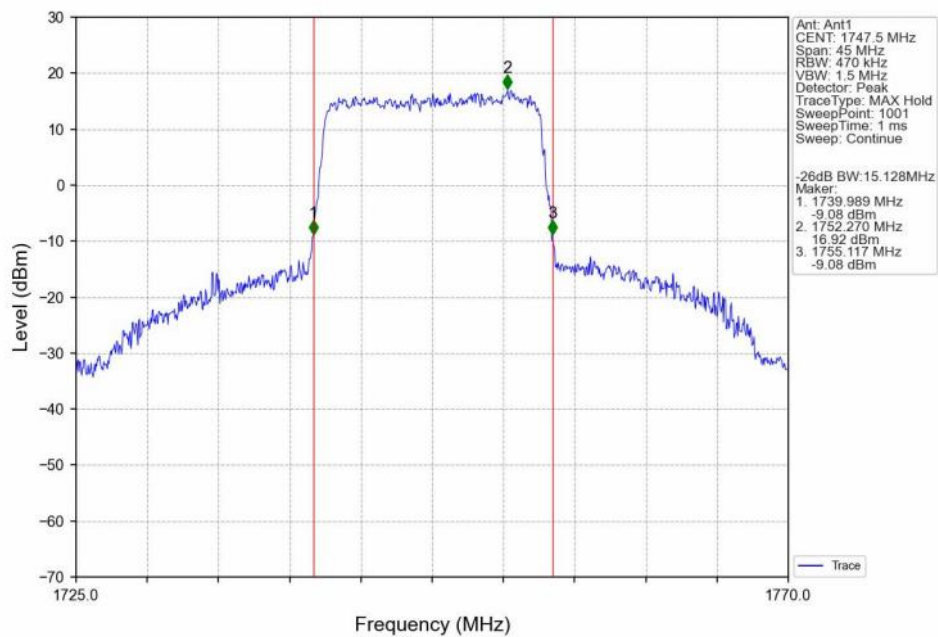
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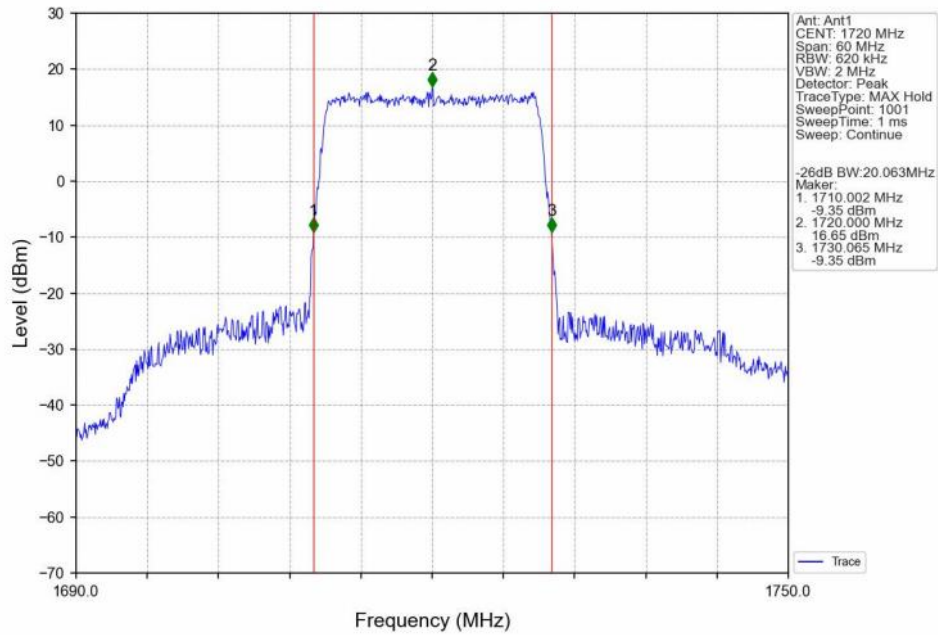
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



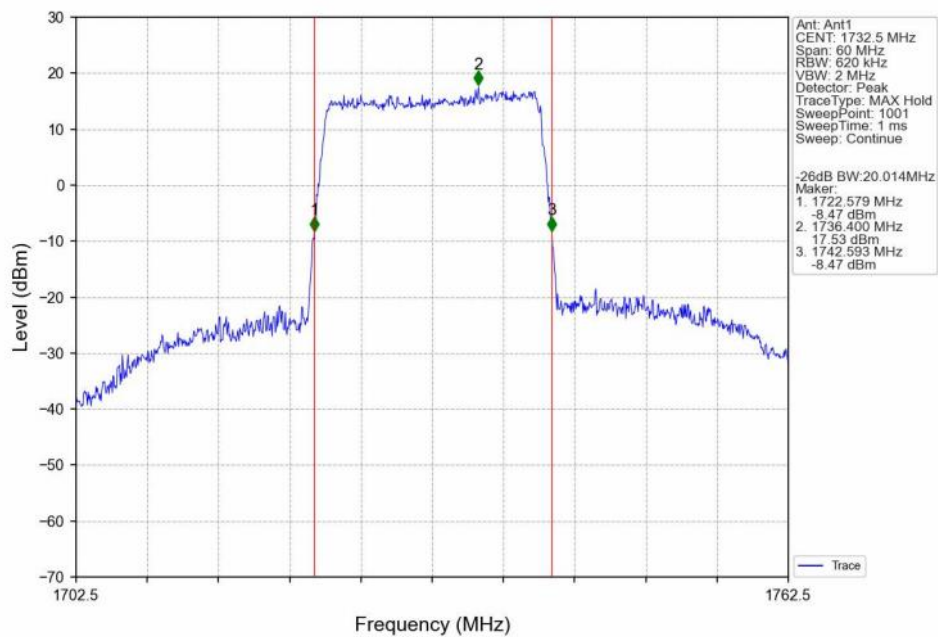
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



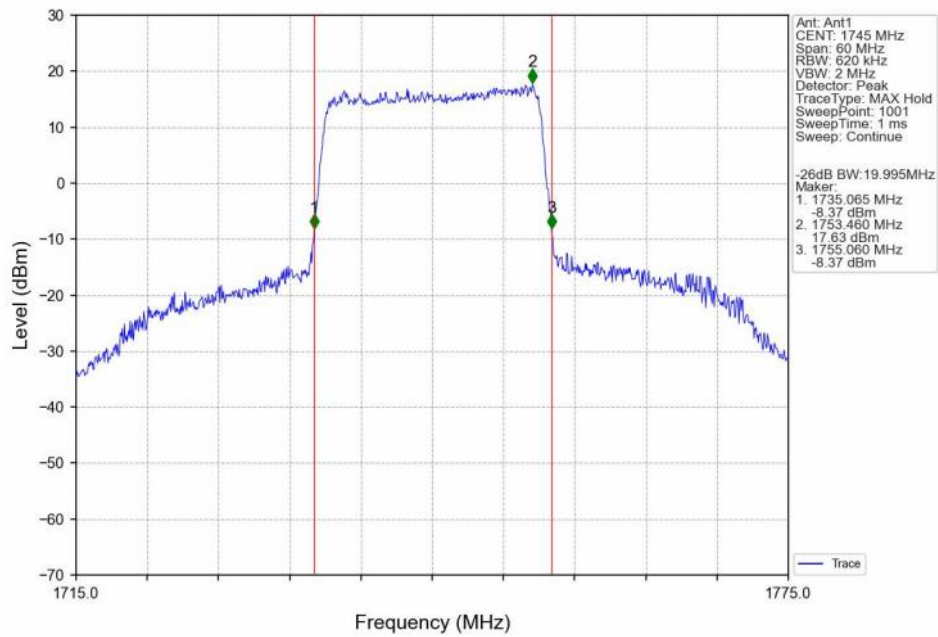
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



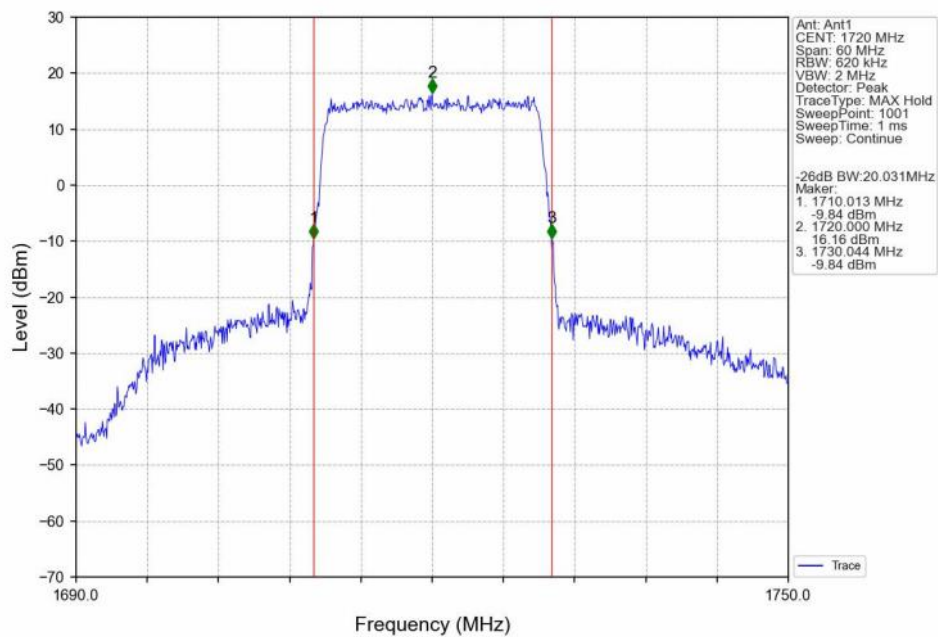
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



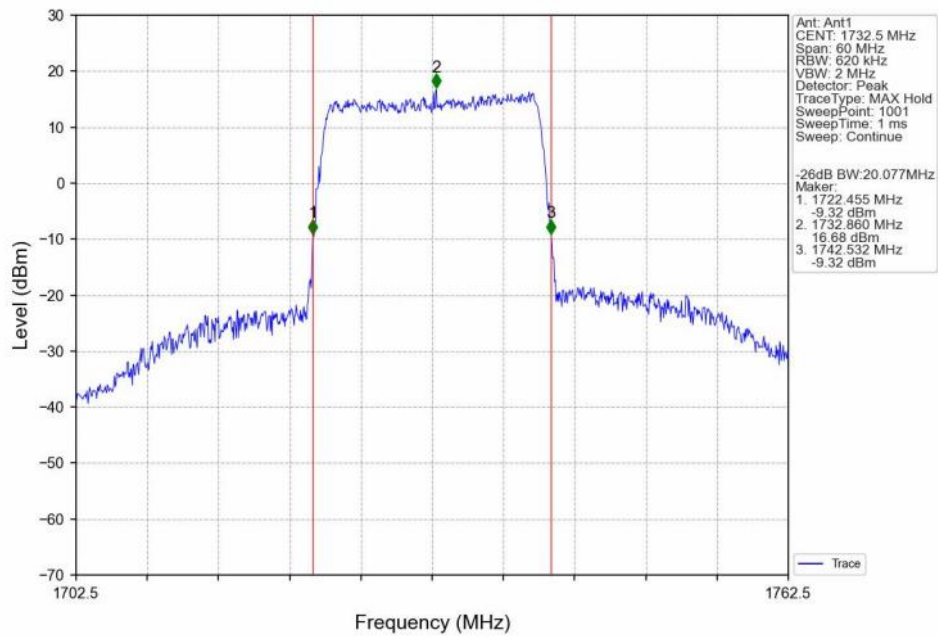
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



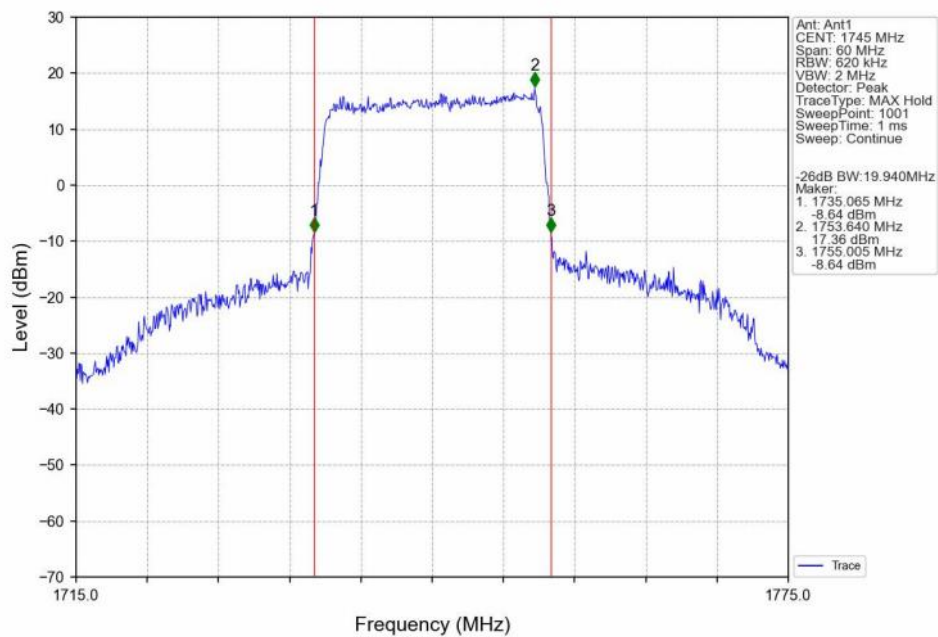
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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	5.13	≤ 13	Pass
	1732.5	6	0	5.42	≤ 13	Pass
	1754.3	6	0	4.30	≤ 13	Pass
16QAM	1710.7	6	0	5.89	≤ 13	Pass
	1732.5	6	0	6.25	≤ 13	Pass
	1754.3	6	0	5.15	≤ 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	5.23	≤ 13	Pass
	1732.5	15	0	5.47	≤ 13	Pass
	1753.5	15	0	4.44	≤ 13	Pass
16QAM	1711.5	15	0	6.02	≤ 13	Pass
	1732.5	15	0	6.31	≤ 13	Pass
	1753.5	15	0	5.12	≤ 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	5.25	≤ 13	Pass
	1732.5	25	0	5.54	≤ 13	Pass
	1752.5	25	0	4.76	≤ 13	Pass
16QAM	1712.5	25	0	6.01	≤ 13	Pass
	1732.5	25	0	6.31	≤ 13	Pass
	1752.5	25	0	5.31	≤ 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	5.49	≤ 13	Pass
	1732.5	50	0	5.57	≤ 13	Pass
	1750	50	0	4.76	≤ 13	Pass
16QAM	1715	50	0	6.18	≤ 13	Pass
	1732.5	50	0	6.34	≤ 13	Pass
	1750	50	0	5.35	≤ 13	Pass

5.1.5 B4_15MHz

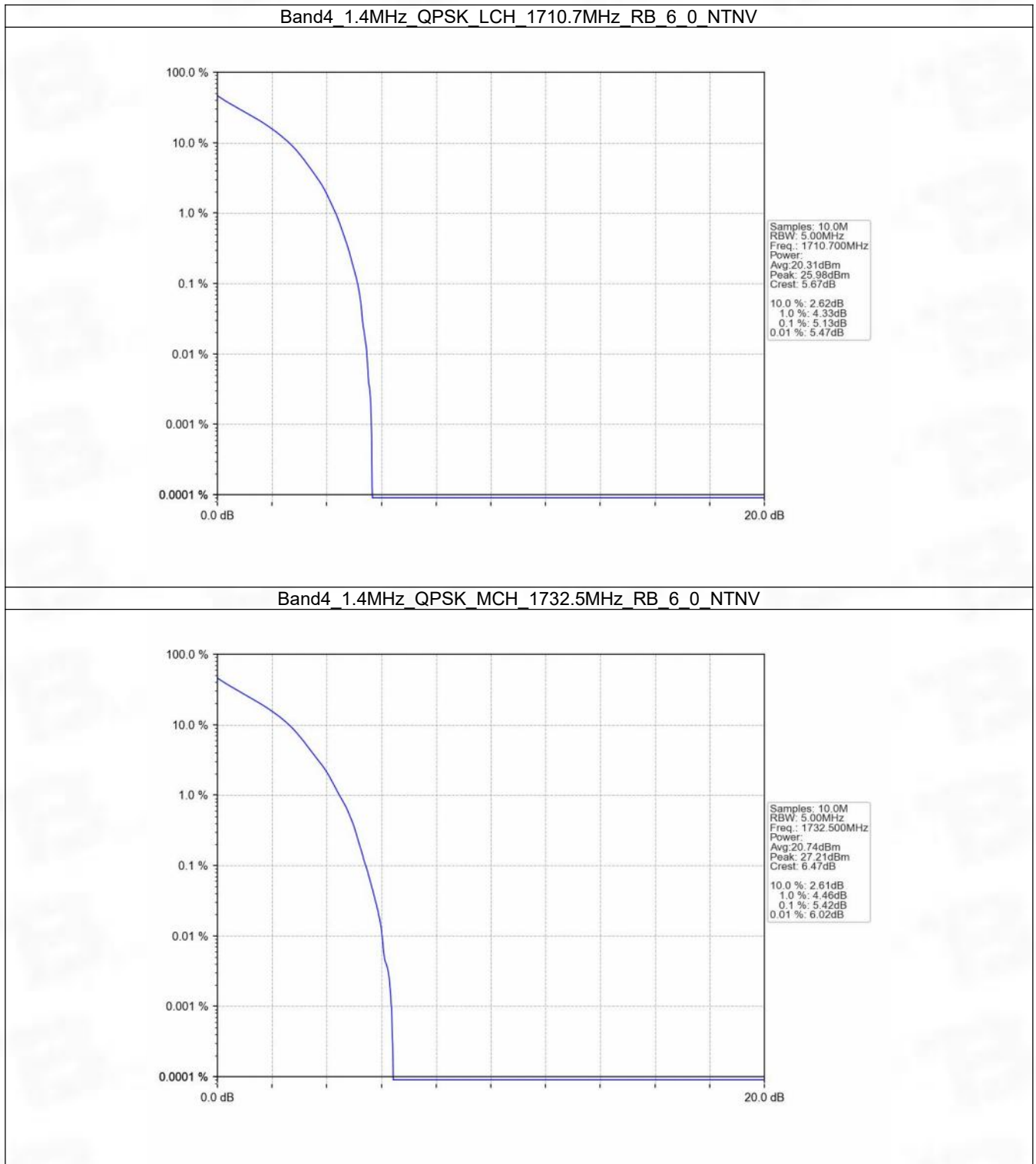
Band: 4 / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.75	<=13	Pass
	1732.5	75	0	5.76	<=13	Pass
	1747.5	75	0	4.78	<=13	Pass
16QAM	1717.5	75	0	6.26	<=13	Pass
	1732.5	75	0	6.31	<=13	Pass
	1747.5	75	0	5.34	<=13	Pass

5.1.6 B4_20MHz

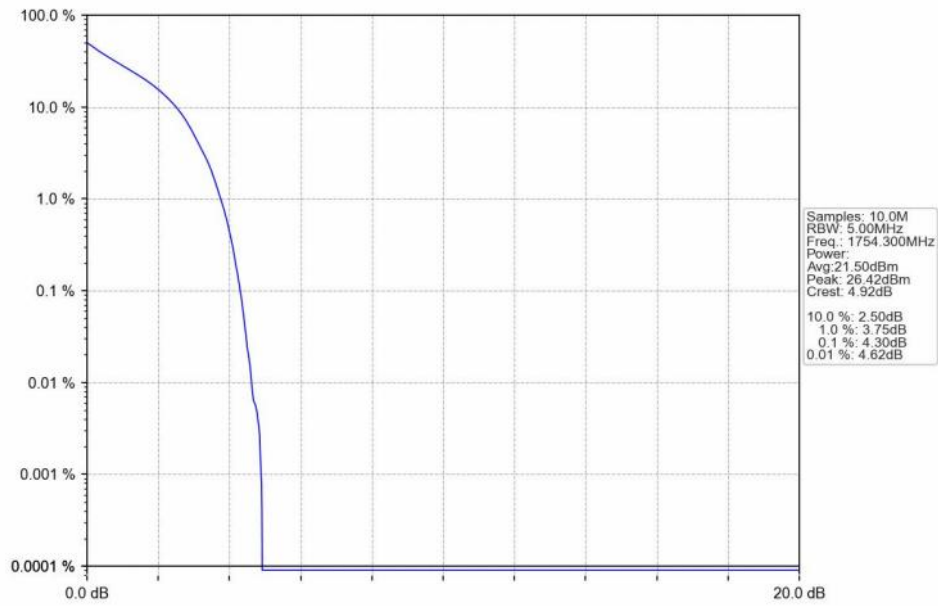
Band: 4 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.65	<=13	Pass
	1732.5	100	0	5.53	<=13	Pass
	1745	100	0	4.96	<=13	Pass
16QAM	1720	100	0	6.26	<=13	Pass
	1732.5	100	0	6.29	<=13	Pass
	1745	100	0	5.67	<=13	Pass

5.2 Test Graph

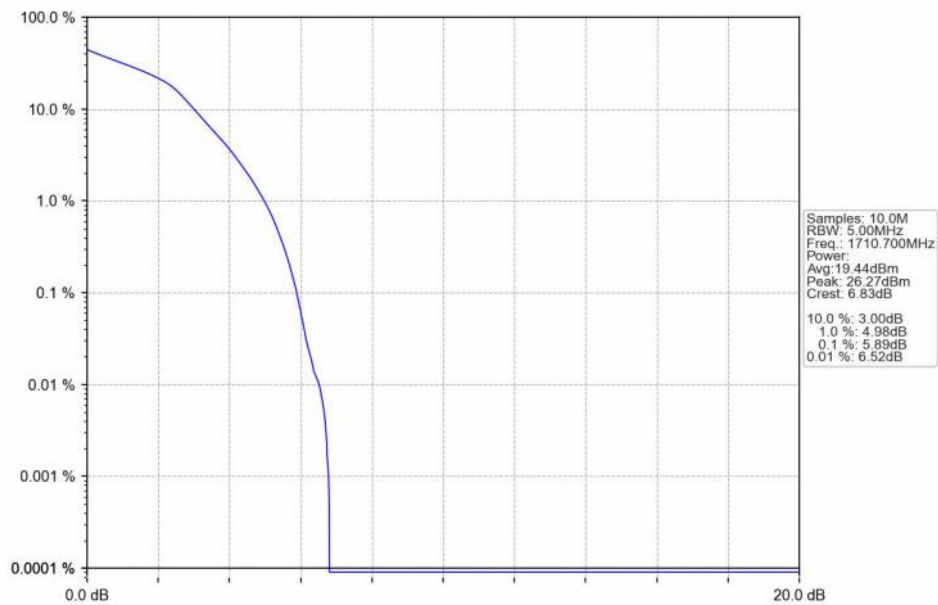
5.2.1 B4_1.4MHz



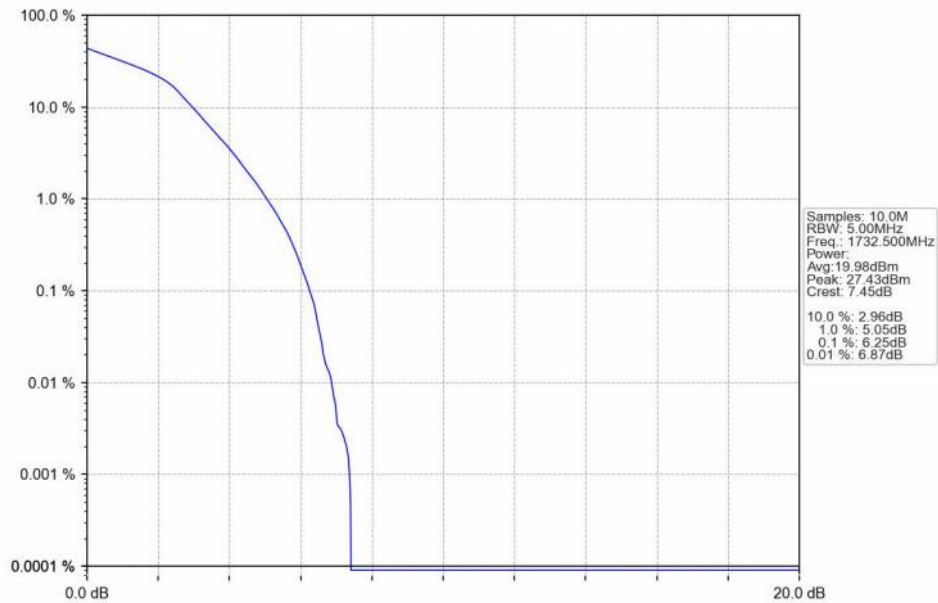
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



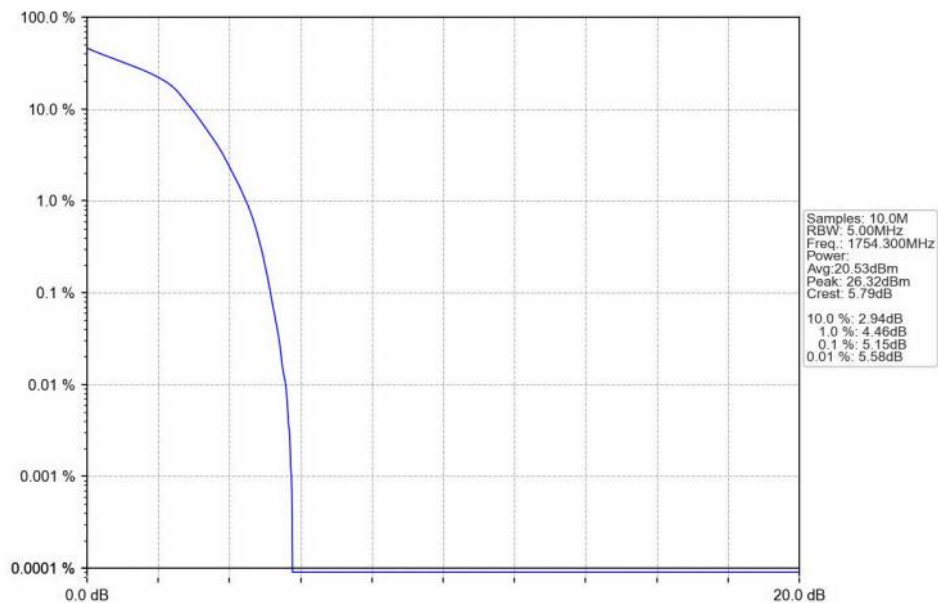
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



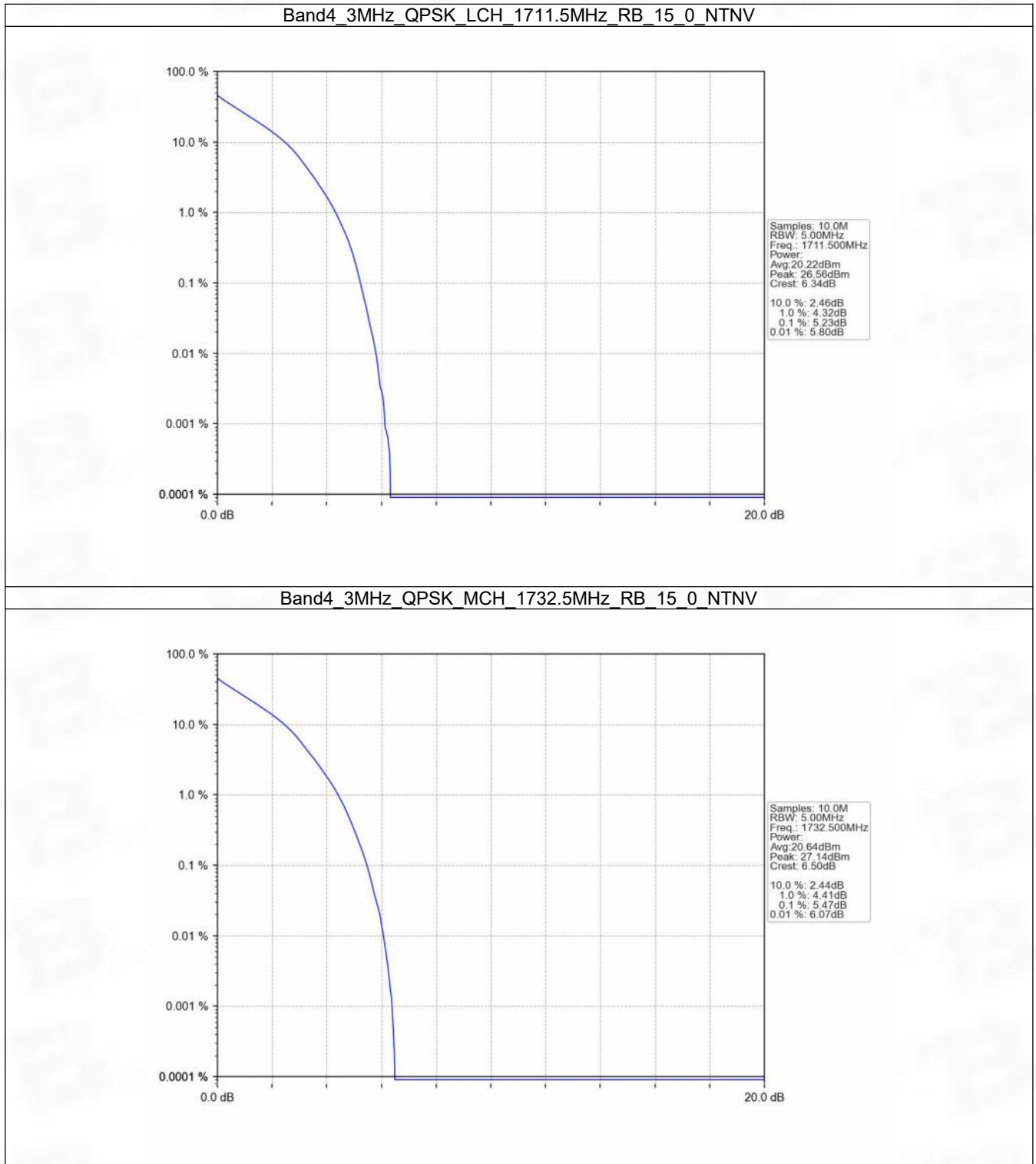
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



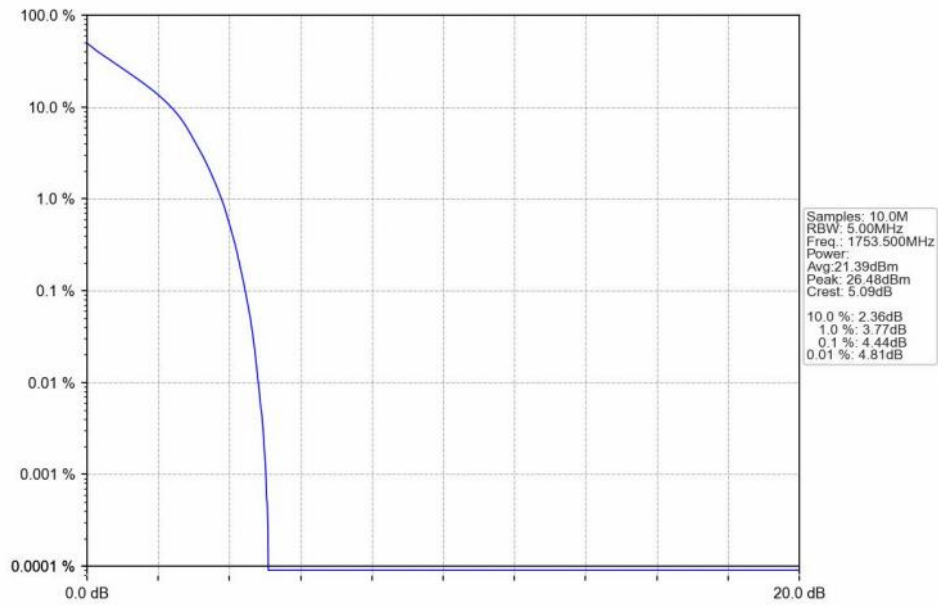
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



5.2.2 B4_3MHz



Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

