

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	20.78	1.18	21.96	<=30	Pass
			2	20.56	1.18	21.74	<=30	Pass
			5	20.60	1.18	21.78	<=30	Pass
		3	0	20.62	1.18	21.80	<=30	Pass
			2	20.50	1.18	21.68	<=30	Pass
			3	20.42	1.18	21.60	<=30	Pass
		6	0	19.53	1.18	20.71	<=30	Pass
	1732.5	1	0	20.31	1.18	21.49	<=30	Pass
			2	20.50	1.18	21.68	<=30	Pass
			5	20.35	1.18	21.53	<=30	Pass
		3	0	20.24	1.18	21.42	<=30	Pass
			2	20.48	1.18	21.66	<=30	Pass
			3	20.41	1.18	21.59	<=30	Pass
		6	0	19.45	1.18	20.63	<=30	Pass
	1754.3	1	0	20.26	1.18	21.44	<=30	Pass
			2	20.24	1.18	21.42	<=30	Pass
			5	20.03	1.18	21.21	<=30	Pass
		3	0	20.27	1.18	21.45	<=30	Pass
			2	20.10	1.18	21.28	<=30	Pass
			3	20.04	1.18	21.22	<=30	Pass
		6	0	19.11	1.18	20.29	<=30	Pass
16QAM	1710.7	1	0	19.59	1.18	20.77	<=30	Pass
			2	19.72	1.18	20.90	<=30	Pass
			5	19.45	1.18	20.63	<=30	Pass
		3	0	19.52	1.18	20.70	<=30	Pass
			2	19.53	1.18	20.71	<=30	Pass
			3	19.41	1.18	20.59	<=30	Pass
		6	0	18.52	1.18	19.70	<=30	Pass
	1732.5	1	0	19.30	1.18	20.48	<=30	Pass
			2	19.40	1.18	20.58	<=30	Pass
			5	19.35	1.18	20.53	<=30	Pass
		3	0	19.18	1.18	20.36	<=30	Pass
			2	19.26	1.18	20.44	<=30	Pass
			3	19.15	1.18	20.33	<=30	Pass
		6	0	18.38	1.18	19.56	<=30	Pass
	1754.3	1	0	18.98	1.18	20.16	<=30	Pass
			2	19.07	1.18	20.25	<=30	Pass
			5	18.84	1.18	20.02	<=30	Pass
		3	0	19.07	1.18	20.25	<=30	Pass
			2	19.07	1.18	20.25	<=30	Pass
			3	19.01	1.18	20.19	<=30	Pass
		6	0	17.92	1.18	19.10	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.2 B4_3MHz_EIRP

1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	20.43	1.18	21.61	<=30	Pass
			7	20.45	1.18	21.63	<=30	Pass
			14	20.28	1.18	21.46	<=30	Pass
		8	0	19.43	1.18	20.61	<=30	Pass
			4	19.35	1.18	20.53	<=30	Pass
			7	19.29	1.18	20.47	<=30	Pass
		15	0	19.29	1.18	20.47	<=30	Pass
	1732.5	1	0	20.26	1.18	21.44	<=30	Pass
			7	20.32	1.18	21.50	<=30	Pass
			14	20.50	1.18	21.68	<=30	Pass
		8	0	19.32	1.18	20.50	<=30	Pass
			4	19.27	1.18	20.45	<=30	Pass
			7	19.32	1.18	20.50	<=30	Pass
		15	0	19.14	1.18	20.32	<=30	Pass
	1753.5	1	0	19.86	1.18	21.04	<=30	Pass
			7	19.96	1.18	21.14	<=30	Pass
			14	19.87	1.18	21.05	<=30	Pass
		8	0	18.86	1.18	20.04	<=30	Pass
			4	18.92	1.18	20.10	<=30	Pass
			7	18.95	1.18	20.13	<=30	Pass
		15	0	19.01	1.18	20.19	<=30	Pass
16QAM	1711.5	1	0	19.35	1.18	20.53	<=30	Pass
			7	19.25	1.18	20.43	<=30	Pass
			14	19.00	1.18	20.18	<=30	Pass
		8	0	18.32	1.18	19.50	<=30	Pass
			4	18.27	1.18	19.45	<=30	Pass
			7	18.21	1.18	19.39	<=30	Pass
		15	0	18.40	1.18	19.58	<=30	Pass
	1732.5	1	0	18.84	1.18	20.02	<=30	Pass
			7	19.92	1.18	21.10	<=30	Pass
			14	19.80	1.18	20.98	<=30	Pass
		8	0	18.47	1.18	19.65	<=30	Pass
			4	18.14	1.18	19.32	<=30	Pass
			7	18.47	1.18	19.65	<=30	Pass
	15	0	18.19	1.18	19.37	<=30	Pass	
	1753.5	1	0	19.19	1.18	20.37	<=30	Pass
			7	19.26	1.18	20.44	<=30	Pass
			14	19.23	1.18	20.41	<=30	Pass
		8	0	18.00	1.18	19.18	<=30	Pass
4			18.16	1.18	19.34	<=30	Pass	
7			18.01	1.18	19.19	<=30	Pass	
15		0	17.97	1.18	19.15	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain								

1.3 B4_5MHz_EIRP

1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency	RB Allocation	Conducted Power	Gain	EIRP (dBm)	Verdict

	(MHz)	Size	Offset	(dBm)	(dBi)	Result	Limit		
QPSK	1712.5	1	0	20.20	1.18	21.38	<=30	Pass	
			13	19.96	1.18	21.14	<=30	Pass	
			24	20.01	1.18	21.19	<=30	Pass	
		12	0	19.16	1.18	20.34	<=30	Pass	
			6	19.08	1.18	20.26	<=30	Pass	
			13	19.08	1.18	20.26	<=30	Pass	
		25	0	19.13	1.18	20.31	<=30	Pass	
		1732.5	1	0	20.04	1.18	21.22	<=30	Pass
				13	20.07	1.18	21.25	<=30	Pass
	24			19.95	1.18	21.13	<=30	Pass	
	12		0	18.97	1.18	20.15	<=30	Pass	
			6	19.01	1.18	20.19	<=30	Pass	
			13	19.02	1.18	20.20	<=30	Pass	
	25		0	18.95	1.18	20.13	<=30	Pass	
	1752.5		1	0	19.94	1.18	21.12	<=30	Pass
				13	19.85	1.18	21.03	<=30	Pass
		24		20.00	1.18	21.18	<=30	Pass	
		12	0	18.95	1.18	20.13	<=30	Pass	
			6	18.89	1.18	20.07	<=30	Pass	
			13	18.92	1.18	20.10	<=30	Pass	
		25	0	18.89	1.18	20.07	<=30	Pass	
16QAM		1712.5	1	0	19.34	1.18	20.52	<=30	Pass
				13	19.37	1.18	20.55	<=30	Pass
	24			19.32	1.18	20.50	<=30	Pass	
	12		0	18.18	1.18	19.36	<=30	Pass	
			6	18.00	1.18	19.18	<=30	Pass	
			13	17.94	1.18	19.12	<=30	Pass	
	25		0	18.13	1.18	19.31	<=30	Pass	
	1732.5		1	0	18.29	1.18	19.47	<=30	Pass
				13	18.59	1.18	19.77	<=30	Pass
		24		18.63	1.18	19.81	<=30	Pass	
		12	0	17.97	1.18	19.15	<=30	Pass	
			6	18.14	1.18	19.32	<=30	Pass	
			13	18.20	1.18	19.38	<=30	Pass	
		25	0	18.17	1.18	19.35	<=30	Pass	
		1752.5	1	0	18.81	1.18	19.99	<=30	Pass
				13	18.83	1.18	20.01	<=30	Pass
	24			19.12	1.18	20.30	<=30	Pass	
	12		0	18.02	1.18	19.20	<=30	Pass	
			6	17.96	1.18	19.14	<=30	Pass	
			13	18.02	1.18	19.20	<=30	Pass	
	25		0	17.93	1.18	19.11	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.4 B4_10MHz_EIRP

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	20.19	1.18	21.37	<=30	Pass
			25	20.08	1.18	21.26	<=30	Pass
			49	19.81	1.18	20.99	<=30	Pass
		25	0	19.18	1.18	20.36	<=30	Pass
			13	19.05	1.18	20.23	<=30	Pass
			25	18.94	1.18	20.12	<=30	Pass
		50	0	19.14	1.18	20.32	<=30	Pass
			0	20.10	1.18	21.28	<=30	Pass
			0					

16QAM	1750	25	25	20.58	1.18	21.76	<=30	Pass
			49	20.05	1.18	21.23	<=30	Pass
			0	18.99	1.18	20.17	<=30	Pass
			13	19.14	1.18	20.32	<=30	Pass
			25	19.10	1.18	20.28	<=30	Pass
		50	0	19.06	1.18	20.24	<=30	Pass
			0	19.82	1.18	21.00	<=30	Pass
		1	25	19.69	1.18	20.87	<=30	Pass
			49	19.84	1.18	21.02	<=30	Pass
			0	18.86	1.18	20.04	<=30	Pass
	1715	25	13	18.78	1.18	19.96	<=30	Pass
			25	18.83	1.18	20.01	<=30	Pass
			0	18.89	1.18	20.07	<=30	Pass
		1	0	19.18	1.18	20.36	<=30	Pass
			25	19.13	1.18	20.31	<=30	Pass
			49	18.71	1.18	19.89	<=30	Pass
		25	0	18.30	1.18	19.48	<=30	Pass
			13	18.10	1.18	19.28	<=30	Pass
			25	17.99	1.18	19.17	<=30	Pass
16QAM	1732.5	50	0	18.06	1.18	19.24	<=30	Pass
			0	19.48	1.18	20.66	<=30	Pass
			25	19.93	1.18	21.11	<=30	Pass
		1	49	19.47	1.18	20.65	<=30	Pass
			0	18.04	1.18	19.22	<=30	Pass
			13	18.24	1.18	19.42	<=30	Pass
		25	25	18.26	1.18	19.44	<=30	Pass
			0	17.97	1.18	19.15	<=30	Pass
			0	19.32	1.18	20.50	<=30	Pass
	1750	1	25	19.10	1.18	20.28	<=30	Pass
			49	19.11	1.18	20.29	<=30	Pass
			0	17.91	1.18	19.09	<=30	Pass
		25	13	17.83	1.18	19.01	<=30	Pass
			25	17.80	1.18	18.98	<=30	Pass
			0	17.91	1.18	19.09	<=30	Pass
		50	0	17.91	1.18	19.09	<=30	Pass
			0	17.91	1.18	19.09	<=30	Pass
			0	17.91	1.18	19.09	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.5 B4_15MHz_EIRP

1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	20.27	1.18	21.45	<=30	Pass
			38	20.05	1.18	21.23	<=30	Pass
			74	19.94	1.18	21.12	<=30	Pass
		36	0	19.24	1.18	20.42	<=30	Pass
			18	19.09	1.18	20.27	<=30	Pass
			39	19.03	1.18	20.21	<=30	Pass
		75	0	19.22	1.18	20.40	<=30	Pass
			0	19.96	1.18	21.14	<=30	Pass
			38	20.19	1.18	21.37	<=30	Pass
	1732.5	1	74	20.06	1.18	21.24	<=30	Pass
			0	19.04	1.18	20.22	<=30	Pass
			18	19.20	1.18	20.38	<=30	Pass
		36	39	19.13	1.18	20.31	<=30	Pass
			0	19.04	1.18	20.22	<=30	Pass
			0	19.99	1.18	21.17	<=30	Pass
		75	38	19.80	1.18	20.98	<=30	Pass
			74	19.82	1.18	21.00	<=30	Pass
			0	19.82	1.18	21.00	<=30	Pass

		36	0	18.91	1.18	20.09	<=30	Pass	
			18	18.86	1.18	20.04	<=30	Pass	
			39	18.85	1.18	20.03	<=30	Pass	
		75	0	18.90	1.18	20.08	<=30	Pass	
16QAM	1717.5	1	0	19.24	1.18	20.42	<=30	Pass	
			38	18.78	1.18	19.96	<=30	Pass	
			74	18.91	1.18	20.09	<=30	Pass	
		36	0	18.20	1.18	19.38	<=30	Pass	
			18	17.95	1.18	19.13	<=30	Pass	
			39	17.93	1.18	19.11	<=30	Pass	
		75	0	18.12	1.18	19.30	<=30	Pass	
		1732.5	1	0	19.52	1.18	20.70	<=30	Pass
				38	19.81	1.18	20.99	<=30	Pass
	74			19.83	1.18	21.01	<=30	Pass	
	36		0	17.96	1.18	19.14	<=30	Pass	
			18	18.29	1.18	19.47	<=30	Pass	
			39	18.29	1.18	19.47	<=30	Pass	
	75		0	17.96	1.18	19.14	<=30	Pass	
	1747.5		1	0	20.01	1.18	21.19	<=30	Pass
				38	19.30	1.18	20.48	<=30	Pass
		74		18.77	1.18	19.95	<=30	Pass	
		36	0	17.98	1.18	19.16	<=30	Pass	
			18	17.72	1.18	18.90	<=30	Pass	
			39	17.79	1.18	18.97	<=30	Pass	
		75	0	18.01	1.18	19.19	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	20.29	1.18	21.47	<=30	Pass
			50	20.15	1.18	21.33	<=30	Pass
			99	20.09	1.18	21.27	<=30	Pass
		50	0	19.17	1.18	20.35	<=30	Pass
			25	19.08	1.18	20.26	<=30	Pass
			50	19.09	1.18	20.27	<=30	Pass
		100	0	19.13	1.18	20.31	<=30	Pass
	1732.5	1	0	20.11	1.18	21.29	<=30	Pass
			50	20.29	1.18	21.47	<=30	Pass
			99	20.08	1.18	21.26	<=30	Pass
		50	0	18.91	1.18	20.09	<=30	Pass
			25	19.14	1.18	20.32	<=30	Pass
			50	19.04	1.18	20.22	<=30	Pass
		100	0	18.91	1.18	20.09	<=30	Pass
	1745	1	0	19.97	1.18	21.15	<=30	Pass
			50	20.12	1.18	21.30	<=30	Pass
			99	19.62	1.18	20.80	<=30	Pass
		50	0	19.08	1.18	20.26	<=30	Pass
			25	18.94	1.18	20.12	<=30	Pass
			50	18.84	1.18	20.02	<=30	Pass
		100	0	18.94	1.18	20.12	<=30	Pass
16QAM	1720	1	0	19.68	1.18	20.86	<=30	Pass
			50	19.75	1.18	20.93	<=30	Pass
			99	19.90	1.18	21.08	<=30	Pass
		50	0	18.15	1.18	19.33	<=30	Pass
			25	17.91	1.18	19.09	<=30	Pass

			50	18.06	1.18	19.24	<=30	Pass
		100	0	18.11	1.18	19.29	<=30	Pass
	1732.5	1	0	18.97	1.18	20.15	<=30	Pass
			50	19.19	1.18	20.37	<=30	Pass
			99	18.90	1.18	20.08	<=30	Pass
		50	0	17.85	1.18	19.03	<=30	Pass
			25	18.27	1.18	19.45	<=30	Pass
			50	18.21	1.18	19.39	<=30	Pass
		100	0	17.90	1.18	19.08	<=30	Pass
		1745	1	0	19.33	1.18	20.51	<=30
	50			19.55	1.18	20.73	<=30	Pass
	99			18.86	1.18	20.04	<=30	Pass
	50		0	18.12	1.18	19.30	<=30	Pass
			25	17.90	1.18	19.08	<=30	Pass
			50	17.69	1.18	18.87	<=30	Pass
	100		0	17.87	1.18	19.05	<=30	Pass
	Note1: EIRP=Conducted Power+Antenna Gain							

2. Frequency Stability

2.1 B4_1.4MHz

2.1.1 Test Result

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	0.758	0.0004	-2.5 to 2.5	Pass
					3.85	1.674	0.0010	-2.5 to 2.5	Pass
					4.43	1.245	0.0007	-2.5 to 2.5	Pass
				-30	3.85	2.275	0.0013	-2.5 to 2.5	Pass
				-20	3.85	1.431	0.0008	-2.5 to 2.5	Pass
				-10	3.85	2.174	0.0013	-2.5 to 2.5	Pass
				0	3.85	1.087	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.901	0.0005	-2.5 to 2.5	Pass
				30	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				40	3.85	2.017	0.0012	-2.5 to 2.5	Pass
				50	3.85	1.316	0.0008	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-0.200	-0.0001	-2.5 to 2.5	Pass
					3.85	0.043	0.0000	-2.5 to 2.5	Pass
					4.43	0.358	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.129	0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.401	0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				0	3.85	1.059	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				30	3.85	0.315	0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.057	0.0000	-2.5 to 2.5	Pass
				50	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-3.390	-0.0019	-2.5 to 2.5	Pass
					3.85	-3.576	-0.0020	-2.5 to 2.5	Pass
					4.43	-3.877	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-2.990	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-2.675	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-3.719	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-3.376	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-4.048	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-4.020	-0.0023	-2.5 to 2.5	Pass

16QAM	1710.7	6	0	40	3.85	-3.533	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass
				20	3.27	2.160	0.0013	-2.5 to 2.5	Pass
					3.85	2.131	0.0012	-2.5 to 2.5	Pass
					4.43	0.687	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.973	0.0006	-2.5 to 2.5	Pass
				-20	3.85	1.845	0.0011	-2.5 to 2.5	Pass
				-10	3.85	1.559	0.0009	-2.5 to 2.5	Pass
				0	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				10	3.85	2.146	0.0013	-2.5 to 2.5	Pass
				30	3.85	2.503	0.0015	-2.5 to 2.5	Pass
				40	3.85	1.044	0.0006	-2.5 to 2.5	Pass
				50	3.85	1.473	0.0009	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	0.930	0.0005	-2.5 to 2.5	Pass
					3.85	0.086	0.0000	-2.5 to 2.5	Pass
					4.43	-0.587	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.315	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-1.073	-0.0006	-2.5 to 2.5	Pass
				10	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				30	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				40	3.85	0.072	0.0000	-2.5 to 2.5	Pass
				50	3.85	0.343	0.0002	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-3.304	-0.0019	-2.5 to 2.5	Pass
					3.85	-3.176	-0.0018	-2.5 to 2.5	Pass
					4.43	-3.676	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-2.432	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-2.117	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-2.317	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-1.888	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-2.146	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-2.403	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-2.232	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-2.575	-0.0015	-2.5 to 2.5	Pass

2.2 B4_3MHz

2.2.1 Test Result

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	1.431	0.0008	-2.5 to 2.5	Pass
					3.85	0.601	0.0004	-2.5 to 2.5	Pass
					4.43	1.230	0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.072	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				0	3.85	0.715	0.0004	-2.5 to 2.5	Pass
				10	3.85	0.386	0.0002	-2.5 to 2.5	Pass
				30	3.85	0.730	0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				50	3.85	0.072	0.0000	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-0.844	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
					4.43	0.801	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.272	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass

				0	3.85	1.817	0.0010	-2.5 to 2.5	Pass
				10	3.85	1.330	0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.030	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.973	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	0.286	0.0002	-2.5 to 2.5	Pass
					3.85	1.502	0.0009	-2.5 to 2.5	Pass
					4.43	0.973	0.0006	-2.5 to 2.5	Pass
				-30	3.85	1.116	0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				0	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				10	3.85	1.144	0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.486	-0.0003	-2.5 to 2.5	Pass
				40	3.85	0.815	0.0005	-2.5 to 2.5	Pass
				50	3.85	0.229	0.0001	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-0.887	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.558	-0.0003	-2.5 to 2.5	Pass
					4.43	-1.431	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-1.316	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	0.458	0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				0	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				30	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				40	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
				50	3.85	0.200	0.0001	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	0.386	0.0002	-2.5 to 2.5	Pass
					3.85	-0.887	-0.0005	-2.5 to 2.5	Pass
					4.43	0.300	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.730	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				0	3.85	1.087	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.229	-0.0001	-2.5 to 2.5	Pass
				40	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				50	3.85	1.230	0.0007	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	0.415	0.0002	-2.5 to 2.5	Pass
					3.85	0.815	0.0005	-2.5 to 2.5	Pass
					4.43	0.300	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.529	0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.272	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
				10	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				30	3.85	1.016	0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.615	-0.0004	-2.5 to 2.5	Pass
				50	3.85	1.030	0.0006	-2.5 to 2.5	Pass

2.3 B4_5MHz

2.3.1 Test Result

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	1.359	0.0008	-2.5 to 2.5	Pass
					3.85	2.532	0.0015	-2.5 to 2.5	Pass
					4.43	1.230	0.0007	-2.5 to 2.5	Pass

				-30	3.85	0.973	0.0006	-2.5 to 2.5	Pass
				-20	3.85	2.060	0.0012	-2.5 to 2.5	Pass
				-10	3.85	1.874	0.0011	-2.5 to 2.5	Pass
				0	3.85	1.845	0.0011	-2.5 to 2.5	Pass
				10	3.85	2.346	0.0014	-2.5 to 2.5	Pass
				30	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				40	3.85	2.232	0.0013	-2.5 to 2.5	Pass
				50	3.85	1.974	0.0012	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-1.073	-0.0006	-2.5 to 2.5	Pass
					3.85	-1.202	-0.0007	-2.5 to 2.5	Pass
					4.43	0.572	0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				-10	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				0	3.85	1.159	0.0007	-2.5 to 2.5	Pass
				10	3.85	0.801	0.0005	-2.5 to 2.5	Pass
				30	3.85	0.844	0.0005	-2.5 to 2.5	Pass
				40	3.85	0.501	0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.844	-0.0005	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-2.961	-0.0017	-2.5 to 2.5	Pass
					3.85	-4.249	-0.0024	-2.5 to 2.5	Pass
					4.43	-4.377	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-2.289	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-2.661	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-3.047	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-1.845	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-1.359	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-3.319	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-3.819	-0.0022	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	0.401	0.0002	-2.5 to 2.5	Pass
					3.85	1.359	0.0008	-2.5 to 2.5	Pass
					4.43	1.688	0.0010	-2.5 to 2.5	Pass
				-30	3.85	0.687	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.315	0.0002	-2.5 to 2.5	Pass
				-10	3.85	2.046	0.0012	-2.5 to 2.5	Pass
				0	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				10	3.85	0.887	0.0005	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	0.944	0.0005	-2.5 to 2.5	Pass
					3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.172	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	1.030	0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.987	-0.0006	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-2.561	-0.0015	-2.5 to 2.5	Pass
					3.85	-3.433	-0.0020	-2.5 to 2.5	Pass
					4.43	-3.204	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-3.190	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-2.418	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-1.817	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-2.761	-0.0016	-2.5 to 2.5	Pass

				40	3.85	-3.719	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-1.516	-0.0009	-2.5 to 2.5	Pass

2.4 B4_10MHz

2.4.1 Test Result

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	-3.390	-0.0020	-2.5 to 2.5	Pass
					3.85	-2.203	-0.0013	-2.5 to 2.5	Pass
					4.43	-2.146	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-3.519	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-2.689	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-2.332	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-2.575	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-2.861	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-3.090	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-3.319	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	0.315	0.0002	-2.5 to 2.5	Pass
					3.85	0.472	0.0003	-2.5 to 2.5	Pass
					4.43	0.515	0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.958	0.0006	-2.5 to 2.5	Pass
				-20	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				0	3.85	-0.343	-0.0002	-2.5 to 2.5	Pass
				10	3.85	0.401	0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.944	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				50	3.85	1.516	0.0009	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	2.017	0.0012	-2.5 to 2.5	Pass
					3.85	1.445	0.0008	-2.5 to 2.5	Pass
					4.43	1.059	0.0006	-2.5 to 2.5	Pass
				-30	3.85	1.845	0.0011	-2.5 to 2.5	Pass
				-20	3.85	1.602	0.0009	-2.5 to 2.5	Pass
				-10	3.85	2.103	0.0012	-2.5 to 2.5	Pass
				0	3.85	1.802	0.0010	-2.5 to 2.5	Pass
				10	3.85	1.030	0.0006	-2.5 to 2.5	Pass
				30	3.85	1.287	0.0007	-2.5 to 2.5	Pass
				40	3.85	1.888	0.0011	-2.5 to 2.5	Pass
				50	3.85	0.358	0.0002	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-3.061	-0.0018	-2.5 to 2.5	Pass
					3.85	-2.518	-0.0015	-2.5 to 2.5	Pass
					4.43	-2.303	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-1.373	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-2.103	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-2.575	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-2.933	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-2.532	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-2.246	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-2.832	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-2.317	-0.0014	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	0.286	0.0002	-2.5 to 2.5	Pass
					3.85	0.443	0.0003	-2.5 to 2.5	Pass
					4.43	1.059	0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass

				0	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
				10	3.85	0.858	0.0005	-2.5 to 2.5	Pass
				30	3.85	0.815	0.0005	-2.5 to 2.5	Pass
				40	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				50	3.85	1.059	0.0006	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	1.988	0.0011	-2.5 to 2.5	Pass
					3.85	1.817	0.0010	-2.5 to 2.5	Pass
					4.43	1.903	0.0011	-2.5 to 2.5	Pass
				-30	3.85	2.546	0.0015	-2.5 to 2.5	Pass
				-20	3.85	3.047	0.0017	-2.5 to 2.5	Pass
				-10	3.85	1.202	0.0007	-2.5 to 2.5	Pass
				0	3.85	2.131	0.0012	-2.5 to 2.5	Pass
				10	3.85	2.031	0.0012	-2.5 to 2.5	Pass
				30	3.85	2.332	0.0013	-2.5 to 2.5	Pass
				40	3.85	1.016	0.0006	-2.5 to 2.5	Pass
				50	3.85	1.245	0.0007	-2.5 to 2.5	Pass

2.5 B4_15MHz

2.5.1 Test Result

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	-0.429	-0.0002	-2.5 to 2.5	Pass
					3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
					4.43	0.987	0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.687	0.0004	-2.5 to 2.5	Pass
				0	3.85	0.587	0.0003	-2.5 to 2.5	Pass
				10	3.85	1.416	0.0008	-2.5 to 2.5	Pass
				30	3.85	0.486	0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.300	-0.0002	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.85	0.272	0.0002	-2.5 to 2.5	Pass
					3.27	0.958	0.0006	-2.5 to 2.5	Pass
					3.85	0.486	0.0003	-2.5 to 2.5	Pass
				-30	4.43	0.830	0.0005	-2.5 to 2.5	Pass
					3.85	0.858	0.0005	-2.5 to 2.5	Pass
					3.85	0.415	0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.186	0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
				10	3.85	0.057	0.0000	-2.5 to 2.5	Pass
				30	3.85	0.973	0.0006	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.85	0.916	0.0005	-2.5 to 2.5	Pass
					3.27	0.329	0.0002	-2.5 to 2.5	Pass
					3.85	1.316	0.0008	-2.5 to 2.5	Pass
				-30	4.43	-0.658	-0.0004	-2.5 to 2.5	Pass
					3.85	0.930	0.0005	-2.5 to 2.5	Pass
					3.85	0.229	0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.758	0.0004	-2.5 to 2.5	Pass
				0	3.85	0.930	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.157	0.0001	-2.5 to 2.5	Pass
				30	3.85	1.059	0.0006	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.85	0.615	0.0004	-2.5 to 2.5	Pass
					3.85	0.930	0.0005	-2.5 to 2.5	Pass
					3.27	0.544	0.0003	-2.5 to 2.5	Pass
					4.43	0.172	0.0001	-2.5 to 2.5	Pass

				-30	3.85	1.245	0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.587	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
				0	3.85	0.815	0.0005	-2.5 to 2.5	Pass
				10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				30	3.85	1.016	0.0006	-2.5 to 2.5	Pass
				40	3.85	0.715	0.0004	-2.5 to 2.5	Pass
				50	3.85	0.587	0.0003	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-0.329	-0.0002	-2.5 to 2.5	Pass
					3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
					4.43	1.173	0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.558	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.458	0.0003	-2.5 to 2.5	Pass
				0	3.85	1.116	0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				30	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				40	3.85	0.386	0.0002	-2.5 to 2.5	Pass
				50	3.85	0.644	0.0004	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	0.815	0.0005	-2.5 to 2.5	Pass
					3.85	0.429	0.0002	-2.5 to 2.5	Pass
					4.43	0.329	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.916	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.401	0.0002	-2.5 to 2.5	Pass
				0	3.85	0.916	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				30	3.85	0.386	0.0002	-2.5 to 2.5	Pass
				40	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				50	3.85	0.072	0.0000	-2.5 to 2.5	Pass

2.6 B4_20MHz

2.6.1 Test Result

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	0.772	0.0004	-2.5 to 2.5	Pass
					3.85	1.159	0.0007	-2.5 to 2.5	Pass
					4.43	1.187	0.0007	-2.5 to 2.5	Pass
				-30	3.85	2.232	0.0013	-2.5 to 2.5	Pass
				-20	3.85	1.516	0.0009	-2.5 to 2.5	Pass
				-10	3.85	1.917	0.0011	-2.5 to 2.5	Pass
				0	3.85	1.531	0.0009	-2.5 to 2.5	Pass
				10	3.85	1.888	0.0011	-2.5 to 2.5	Pass
				30	3.85	1.845	0.0011	-2.5 to 2.5	Pass
				40	3.85	2.332	0.0014	-2.5 to 2.5	Pass
				50	3.85	2.103	0.0012	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-0.143	-0.0001	-2.5 to 2.5	Pass
					3.85	0.715	0.0004	-2.5 to 2.5	Pass
					4.43	0.286	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.372	0.0002	-2.5 to 2.5	Pass
				10	3.85	0.186	0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				40	3.85	0.772	0.0004	-2.5 to 2.5	Pass
				50	3.85	1.001	0.0006	-2.5 to 2.5	Pass

	1745	100	0	20	3.27	-3.161	-0.0018	-2.5 to 2.5	Pass
					3.85	-2.131	-0.0012	-2.5 to 2.5	Pass
					4.43	-3.033	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-1.960	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-2.618	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-3.676	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-1.488	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-3.591	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-2.532	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-3.133	-0.0018	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	1.674	0.0010	-2.5 to 2.5	Pass
					3.85	1.373	0.0008	-2.5 to 2.5	Pass
					4.43	1.616	0.0009	-2.5 to 2.5	Pass
				-30	3.85	1.359	0.0008	-2.5 to 2.5	Pass
				-20	3.85	1.974	0.0011	-2.5 to 2.5	Pass
				-10	3.85	1.187	0.0007	-2.5 to 2.5	Pass
				0	3.85	1.345	0.0008	-2.5 to 2.5	Pass
				10	3.85	2.303	0.0013	-2.5 to 2.5	Pass
				30	3.85	1.602	0.0009	-2.5 to 2.5	Pass
				40	3.85	2.275	0.0013	-2.5 to 2.5	Pass
				50	3.85	1.016	0.0006	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	0.701	0.0004	-2.5 to 2.5	Pass
					3.85	0.529	0.0003	-2.5 to 2.5	Pass
					4.43	0.072	0.0000	-2.5 to 2.5	Pass
				-30	3.85	0.830	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.801	0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.315	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
				40	3.85	0.544	0.0003	-2.5 to 2.5	Pass
				50	3.85	0.916	0.0005	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-3.176	-0.0018	-2.5 to 2.5	Pass
					3.85	-2.661	-0.0015	-2.5 to 2.5	Pass
					4.43	-1.874	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-2.403	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-2.732	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-3.777	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-2.403	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-2.632	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-2.604	-0.0015	-2.5 to 2.5	Pass

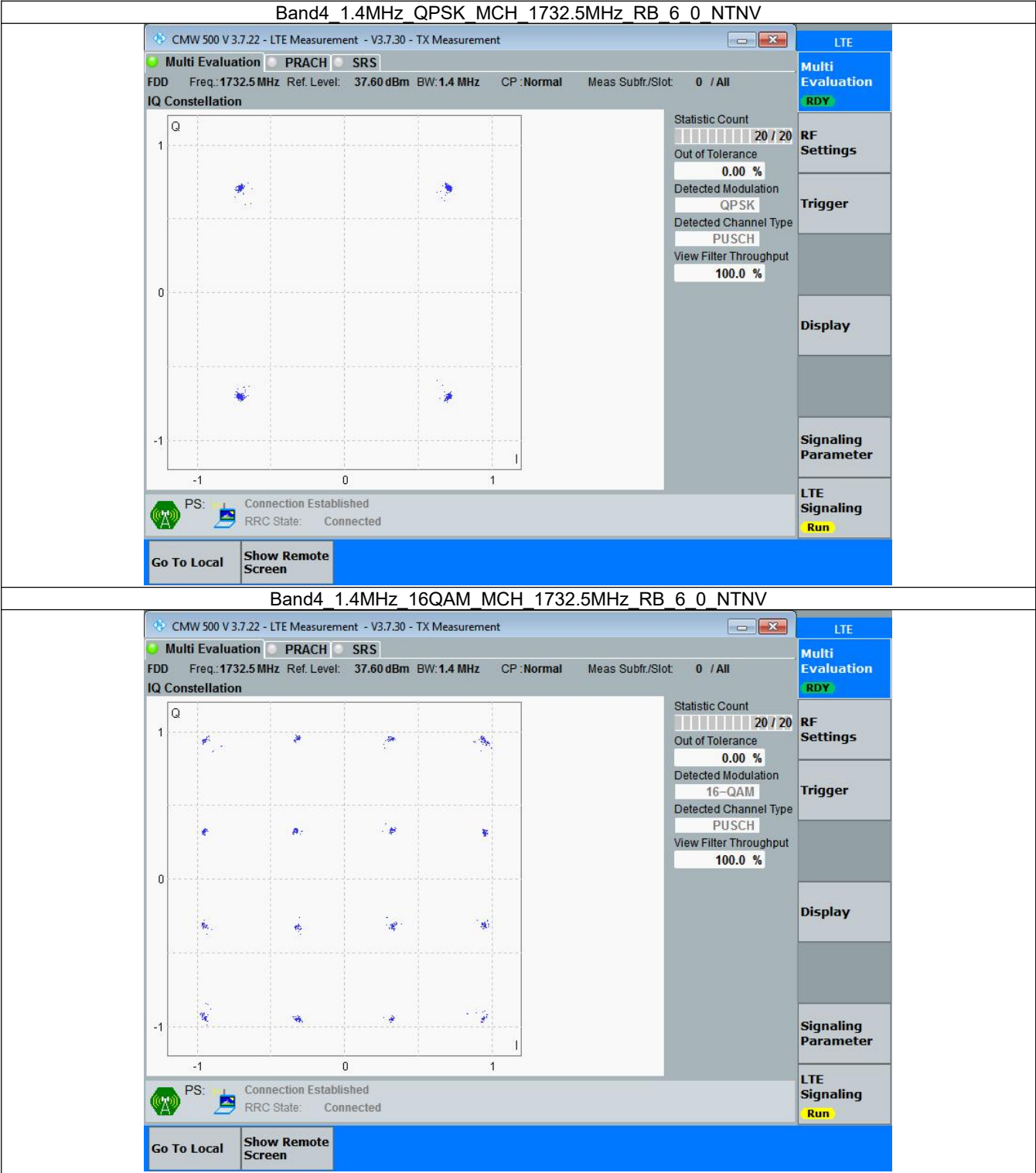
3. Modulation Characteristics

3.1 B4_1.4MHz

3.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTVN						
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 Test Graph

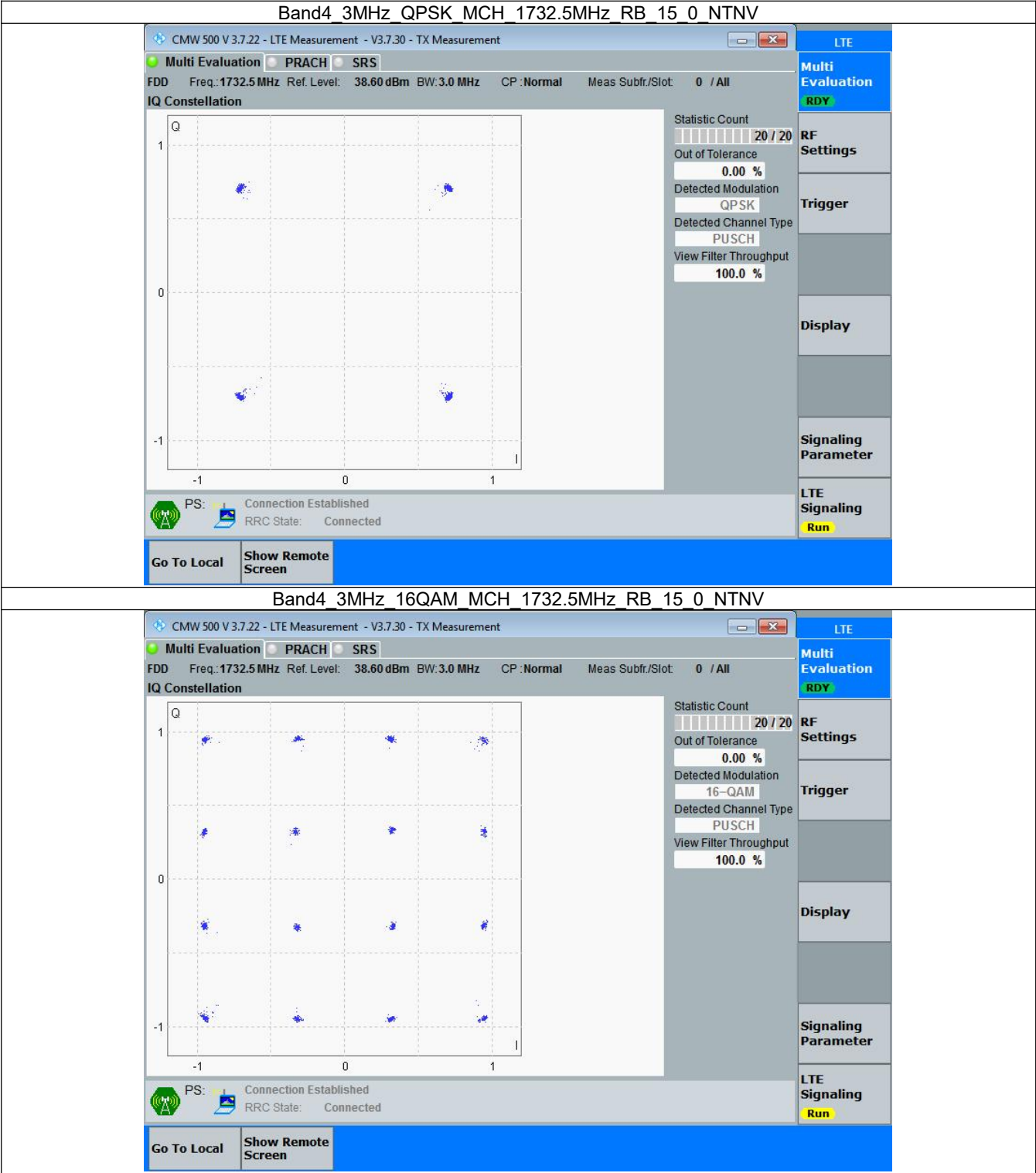


3.2 B4_3MHz

3.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTN						
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

3.2.2 Test Graph

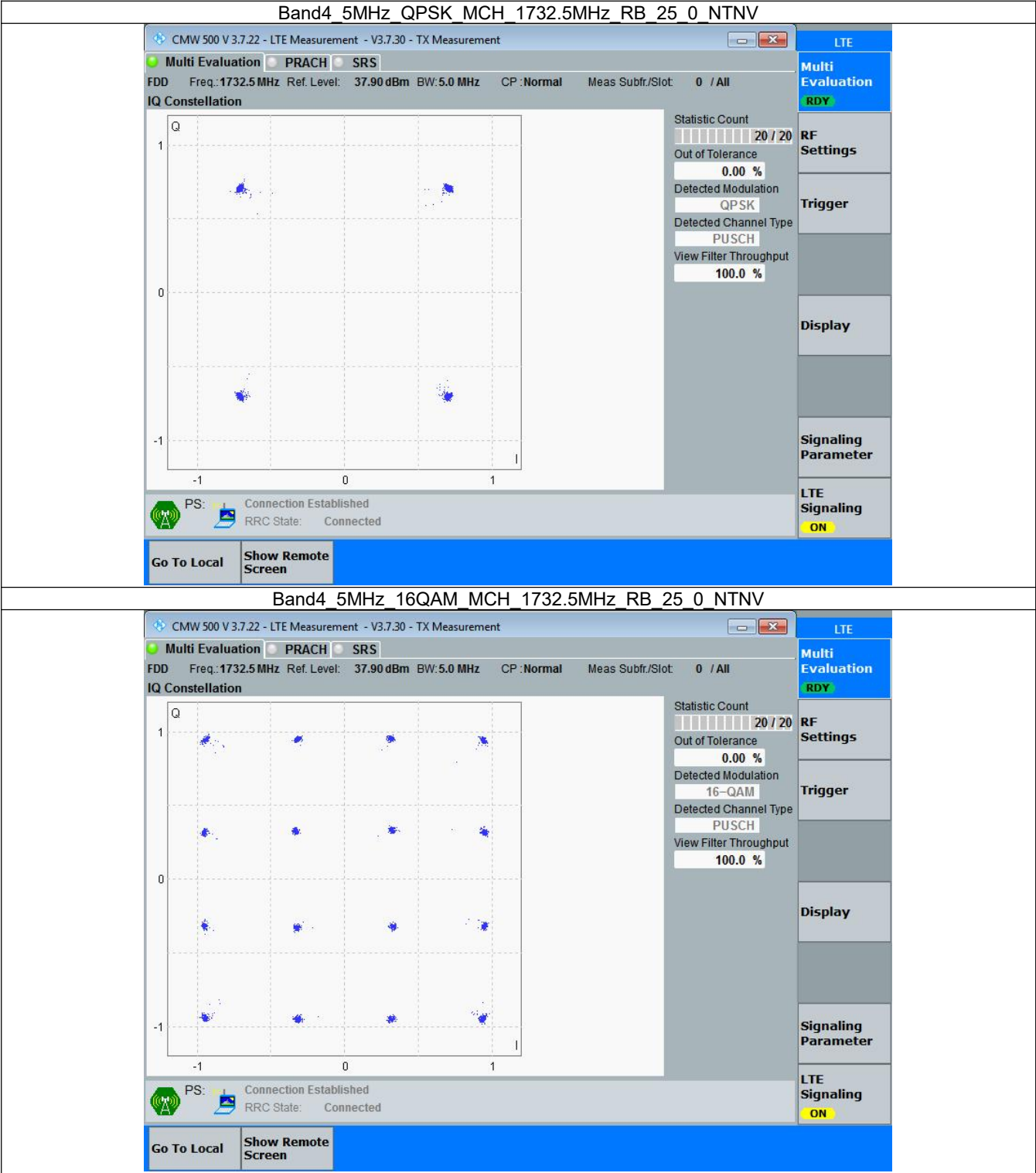


3.3 B4_5MHz

3.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTN						
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

3.3.2 Test Graph

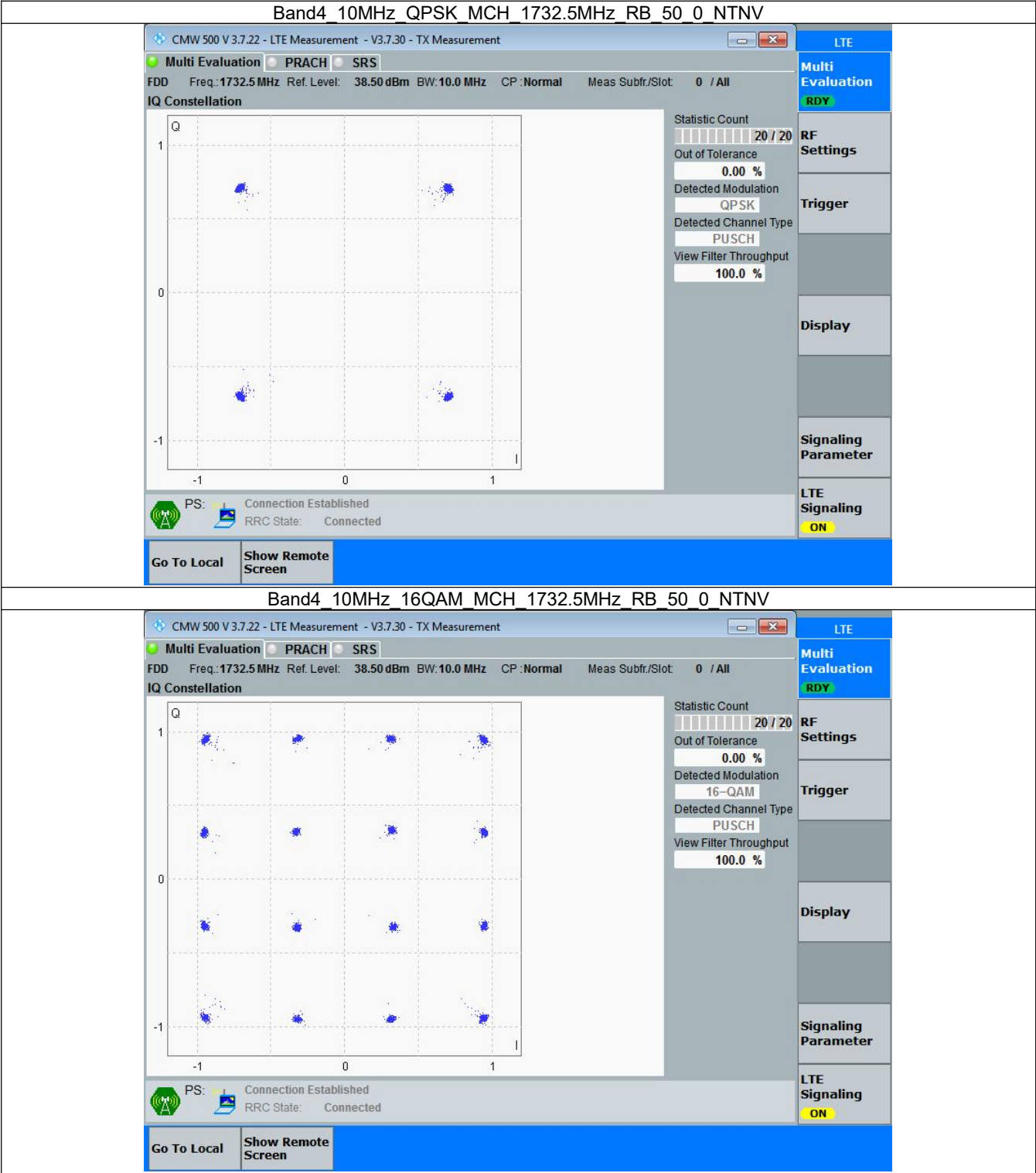


3.4 B4_10MHz

3.4.1 Test Result

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

3.4.2 Test Graph

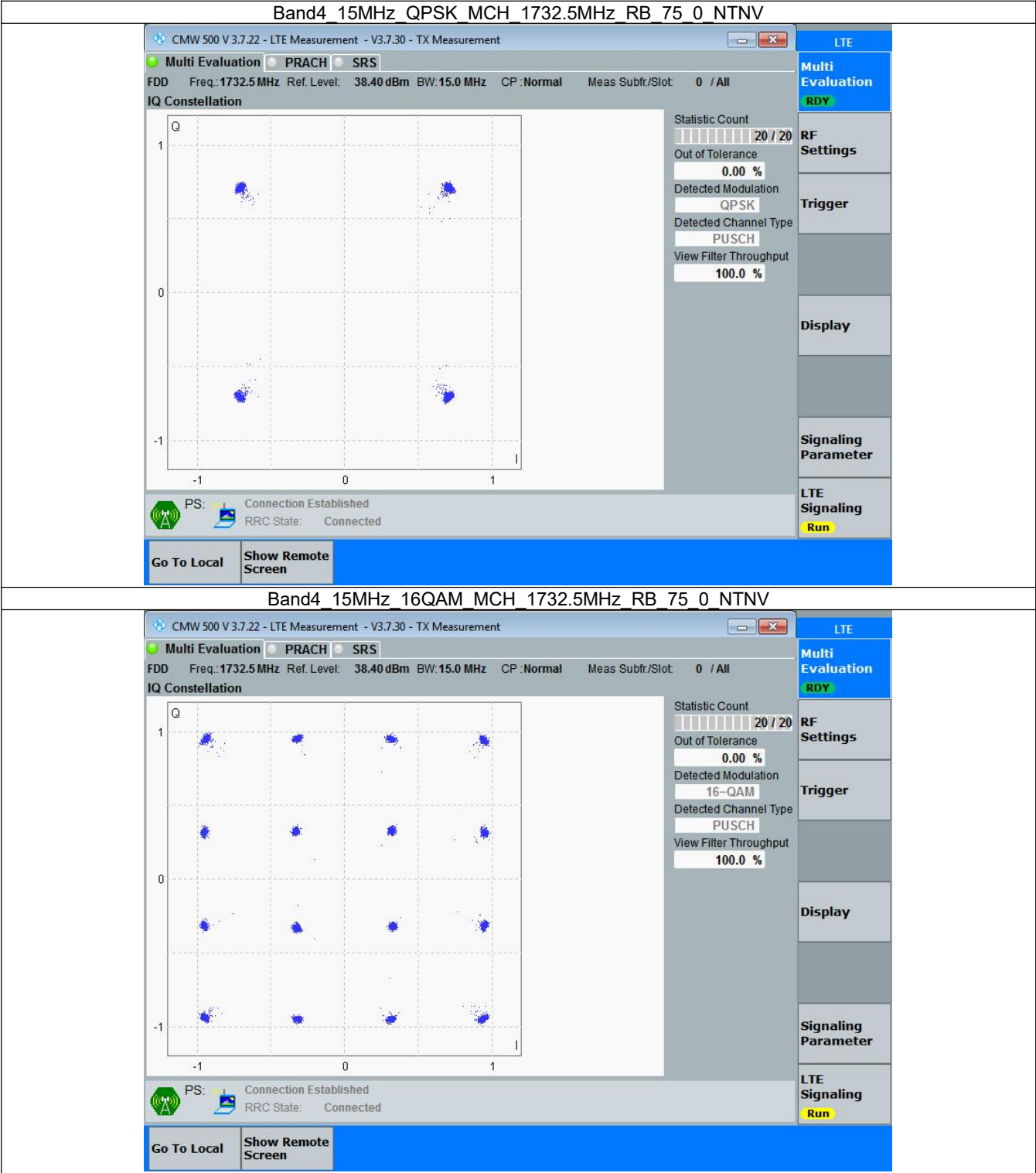


3.5 B4_15MHz

3.5.1 Test Result

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

3.5.2 Test Graph

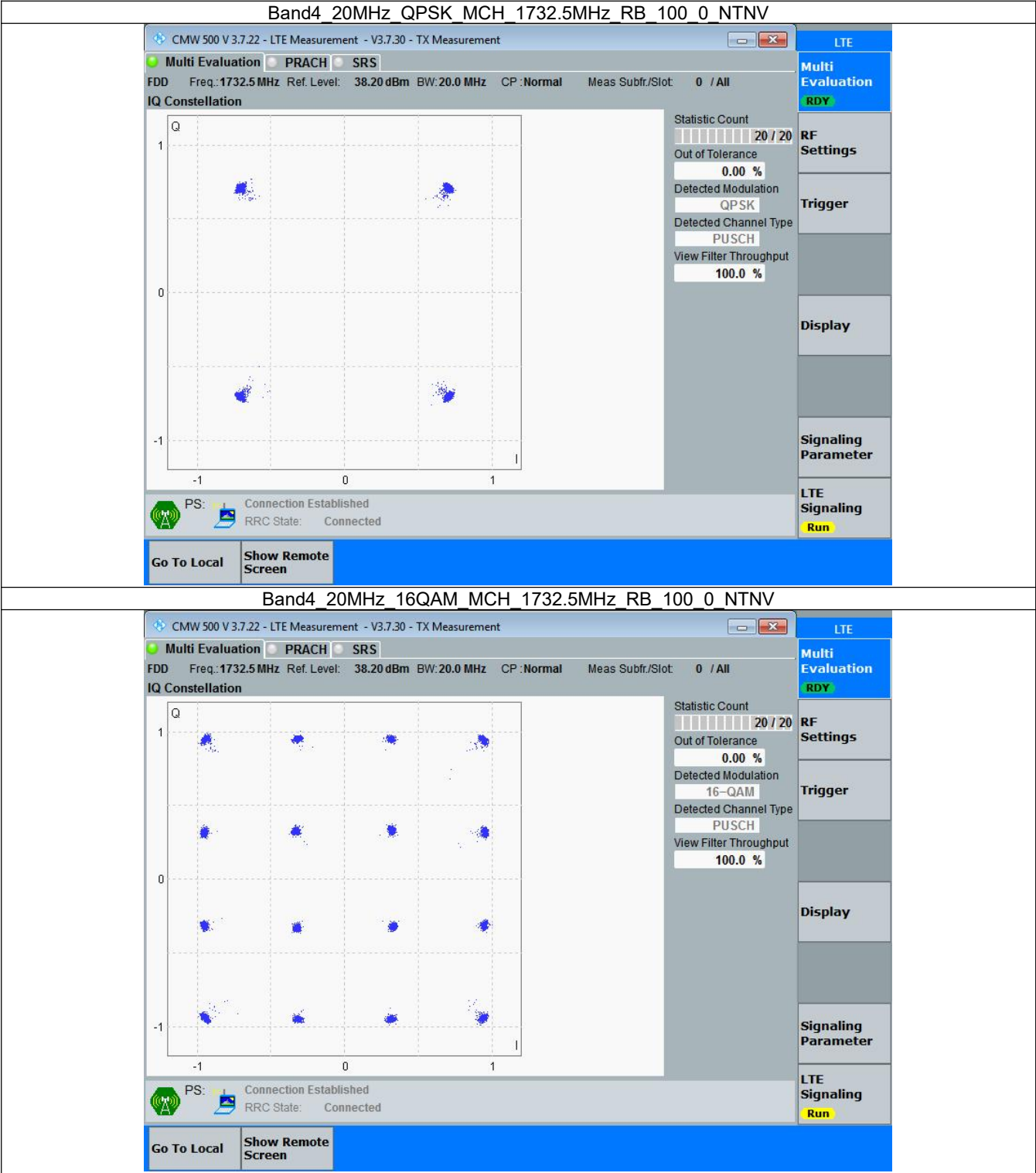


3.6 B4_20MHz

3.6.1 Test Result

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

3.6.2 Test Graph



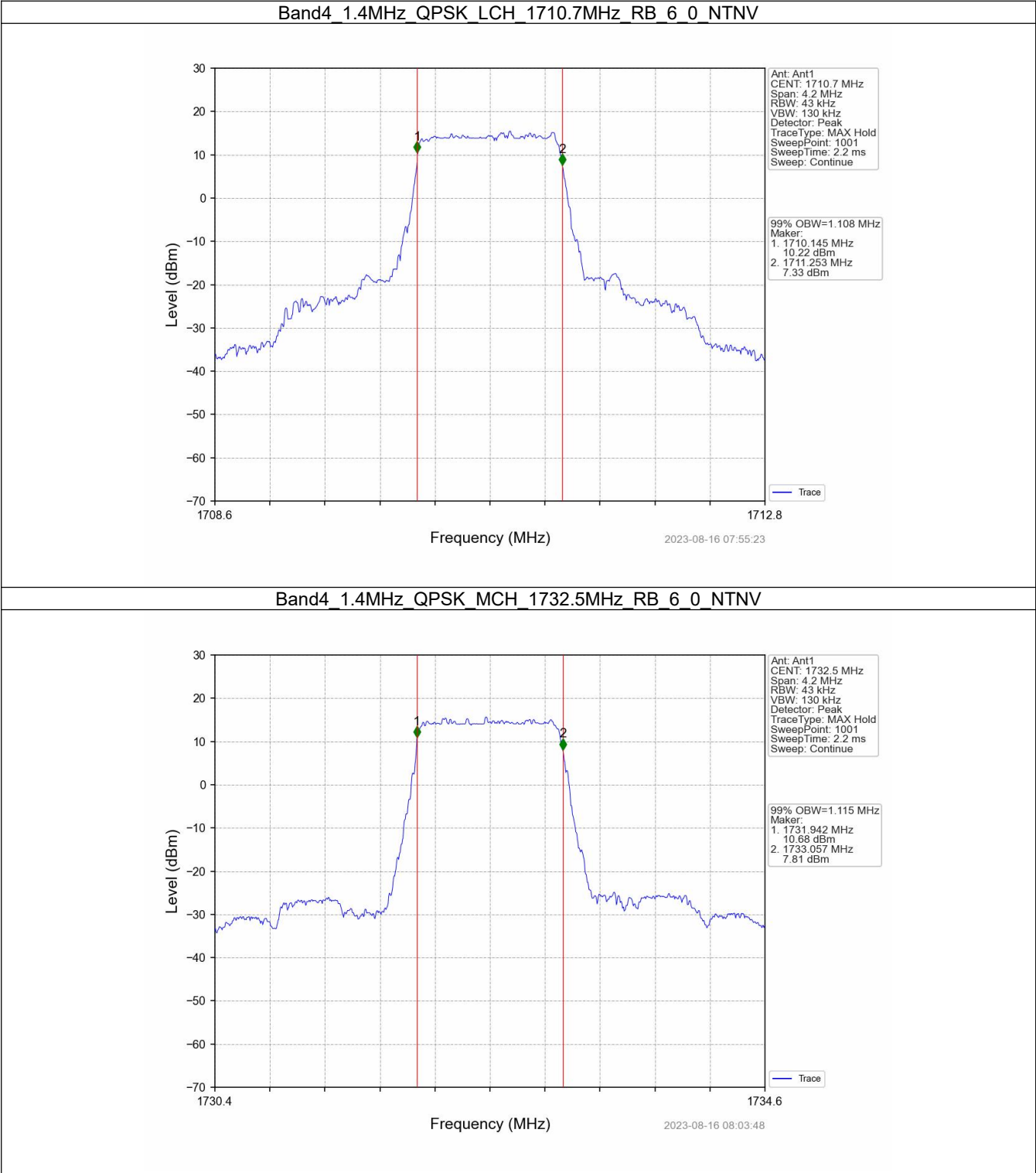
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

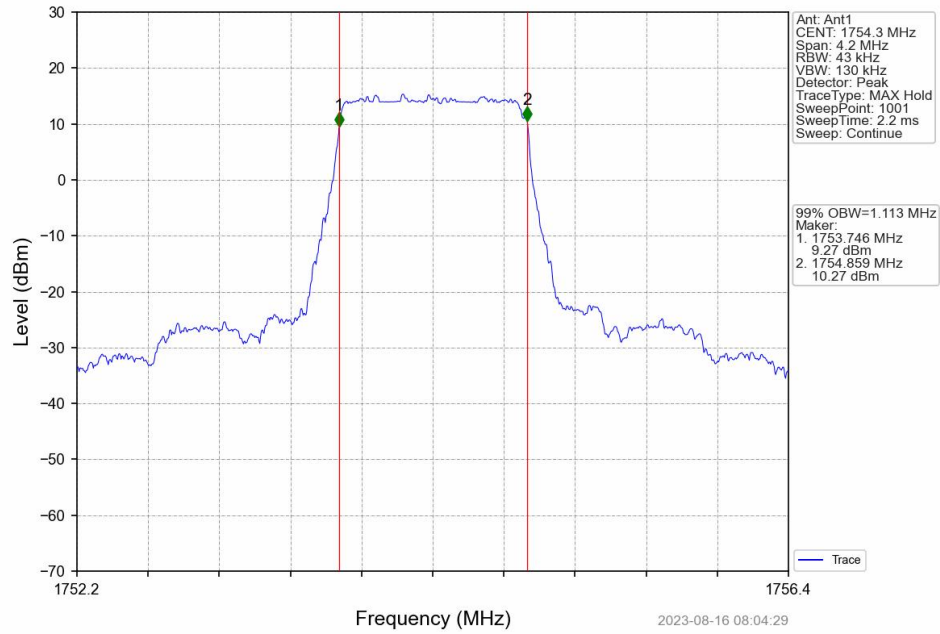
4.1.1 Test Result

Band: 4 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.108	Pass
		1732.5	6	0	1.115	Pass
		1754.3	6	0	1.113	Pass
	16QAM	1710.7	6	0	1.118	Pass
		1732.5	6	0	1.113	Pass
		1754.3	6	0	1.111	Pass
3	QPSK	1711.5	15	0	2.750	Pass
		1732.5	15	0	2.749	Pass
		1753.5	15	0	2.726	Pass
	16QAM	1711.5	15	0	2.743	Pass
		1732.5	15	0	2.738	Pass
		1753.5	15	0	2.739	Pass
5	QPSK	1712.5	25	0	4.546	Pass
		1732.5	25	0	4.557	Pass
		1752.5	25	0	4.532	Pass
	16QAM	1712.5	25	0	4.574	Pass
		1732.5	25	0	4.544	Pass
		1752.5	25	0	4.573	Pass
10	QPSK	1715	50	0	9.054	Pass
		1732.5	50	0	8.995	Pass
		1750	50	0	9.041	Pass
	16QAM	1715	50	0	9.030	Pass
		1732.5	50	0	9.014	Pass
		1750	50	0	9.043	Pass
15	QPSK	1717.5	75	0	13.543	Pass
		1732.5	75	0	13.525	Pass
		1747.5	75	0	13.550	Pass
	16QAM	1717.5	75	0	13.536	Pass
		1732.5	75	0	13.557	Pass
		1747.5	75	0	13.553	Pass
20	QPSK	1720	100	0	18.099	Pass
		1732.5	100	0	18.010	Pass
		1745	100	0	18.022	Pass
	16QAM	1720	100	0	18.062	Pass
		1732.5	100	0	18.007	Pass
		1745	100	0	18.007	Pass

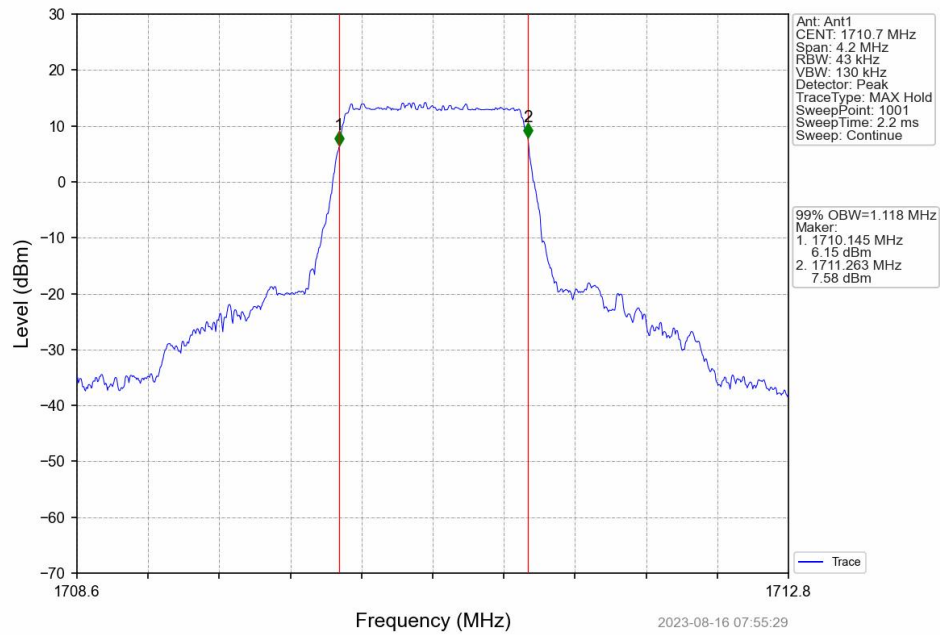
4.1.2 Test Graph



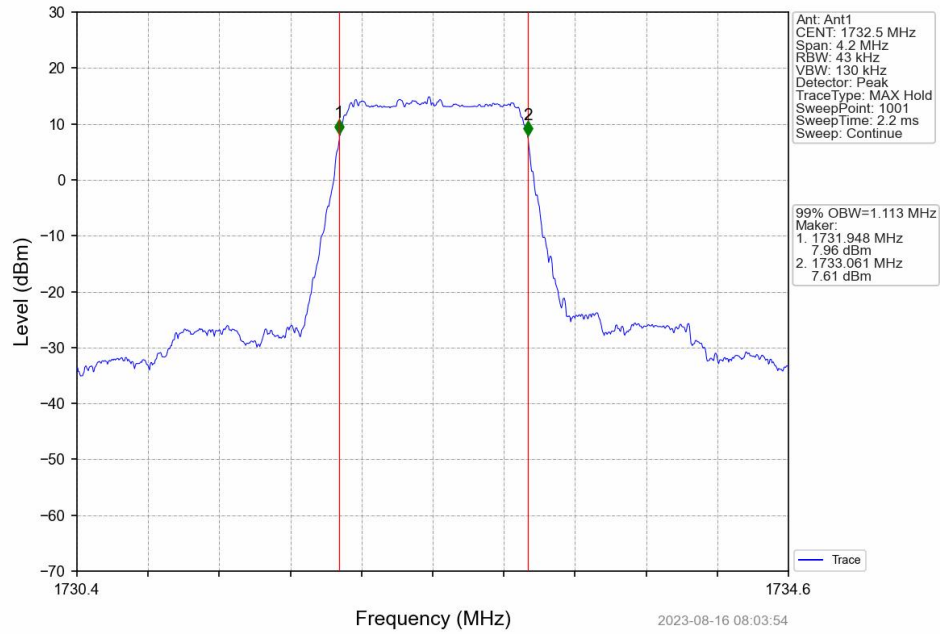
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



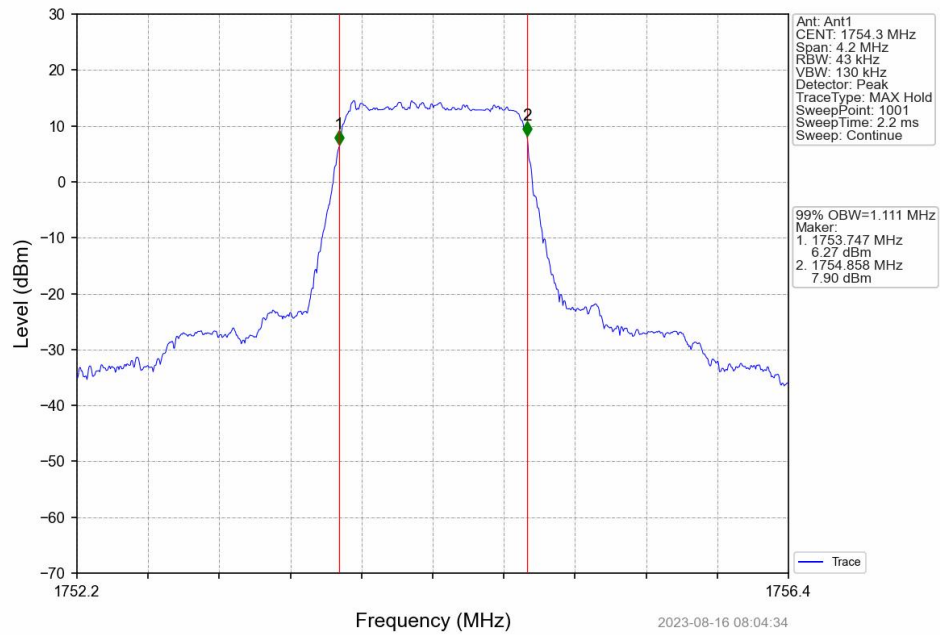
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



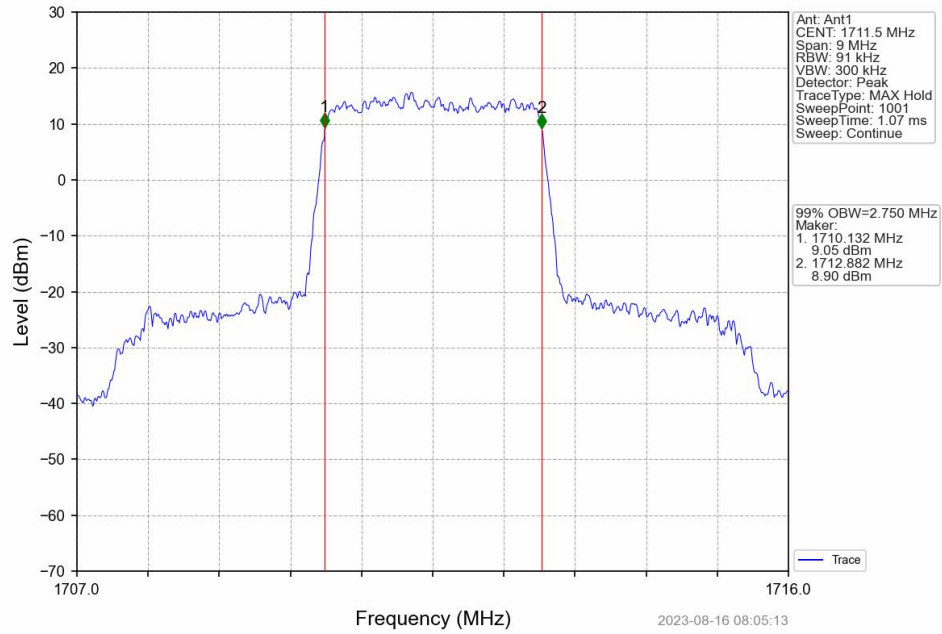
Band4 1.4MHz 16QAM MCH 1732.5MHz RB_6 0 NTNV



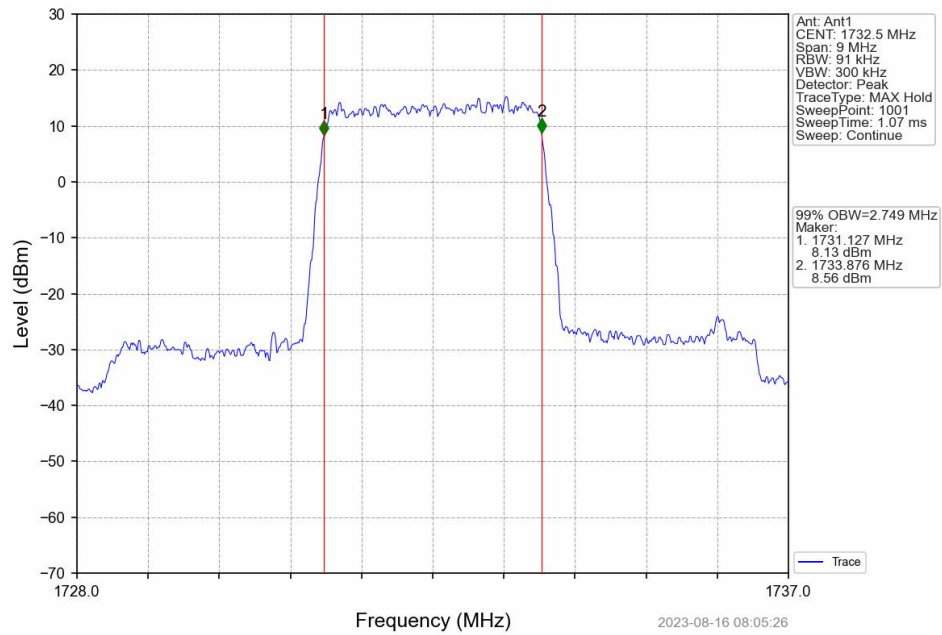
Band4 1.4MHz 16QAM HCH 1754.3MHz RB_6 0 NTNV



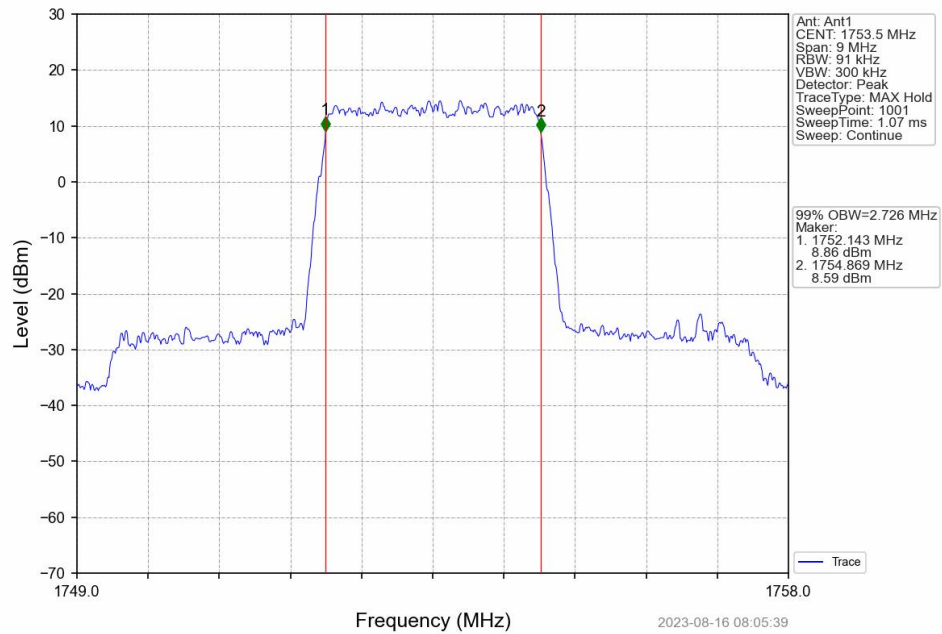
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



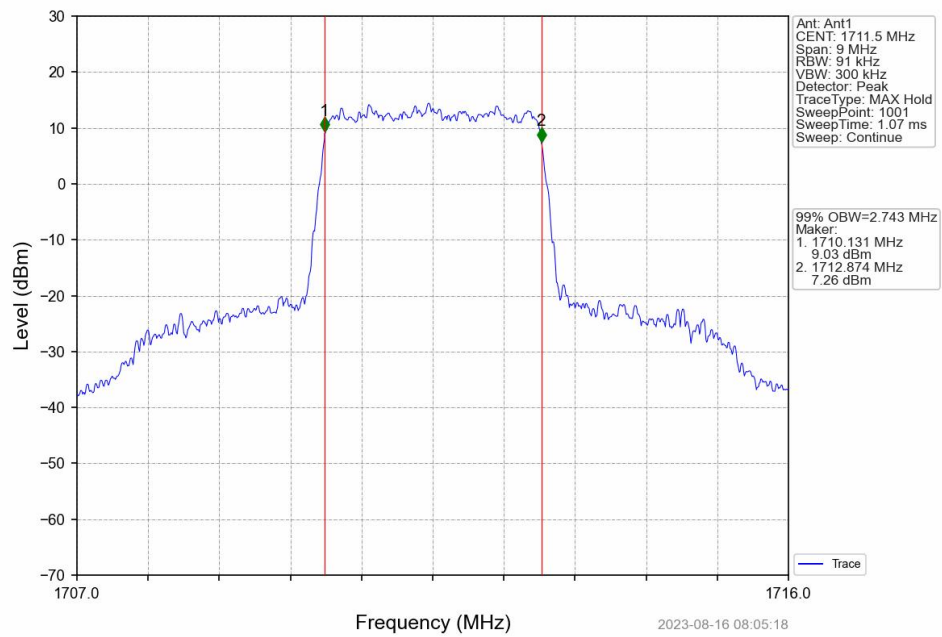
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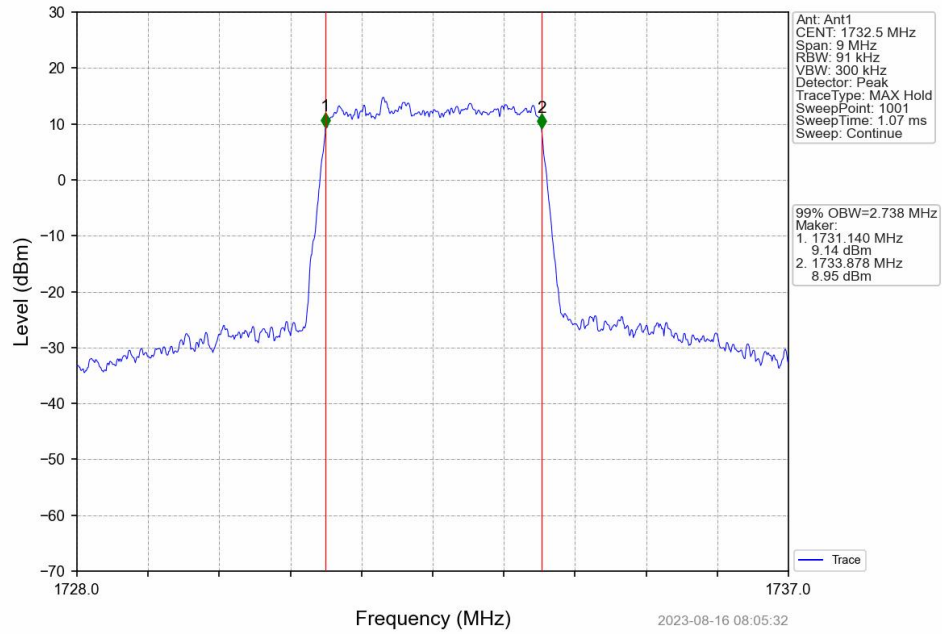
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



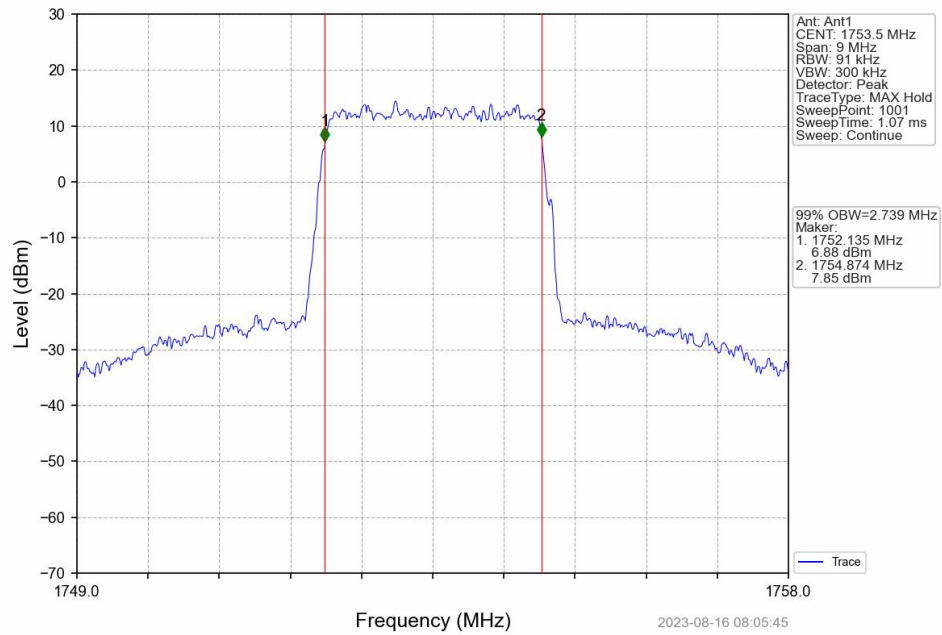
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



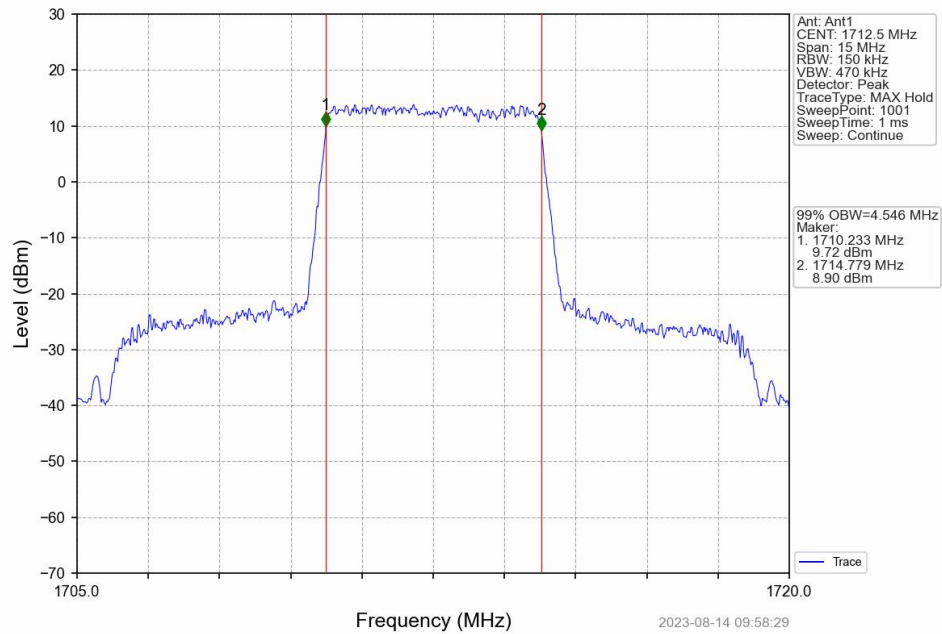
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



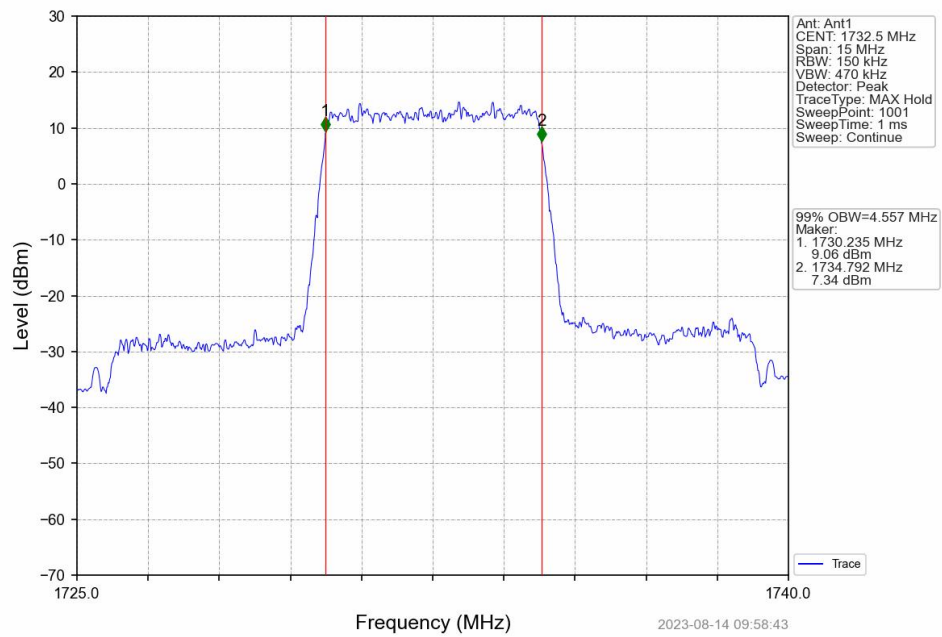
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



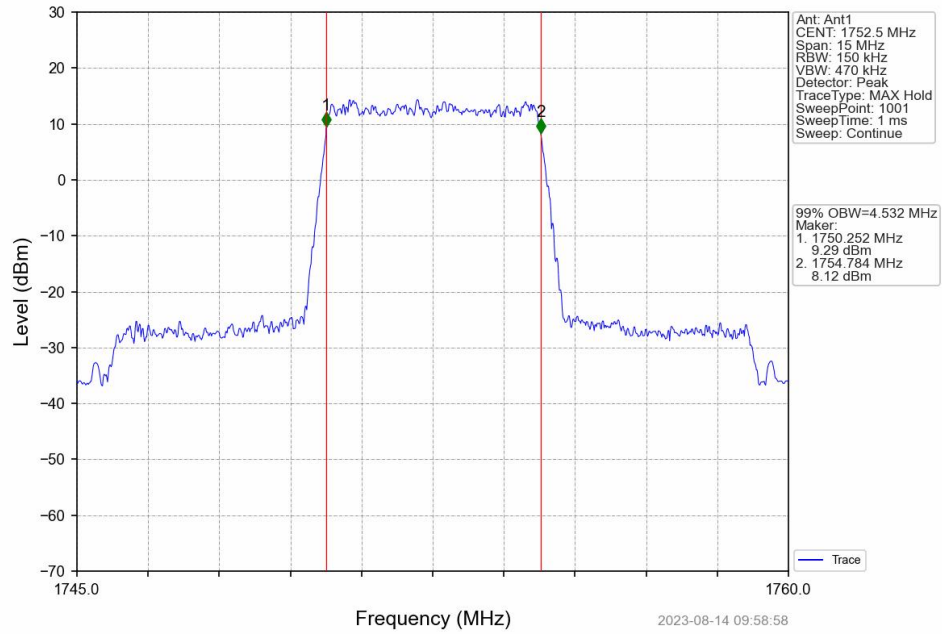
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



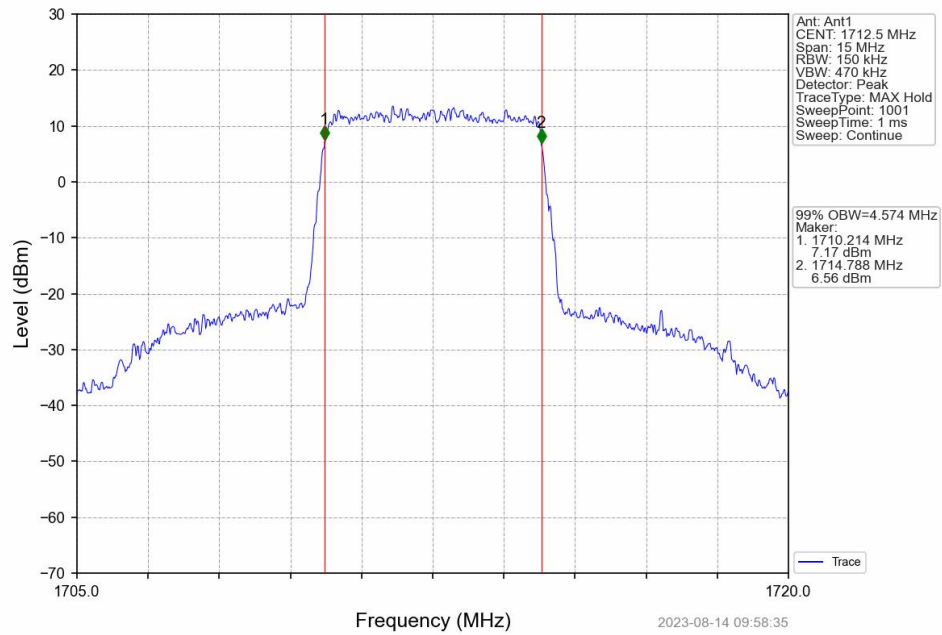
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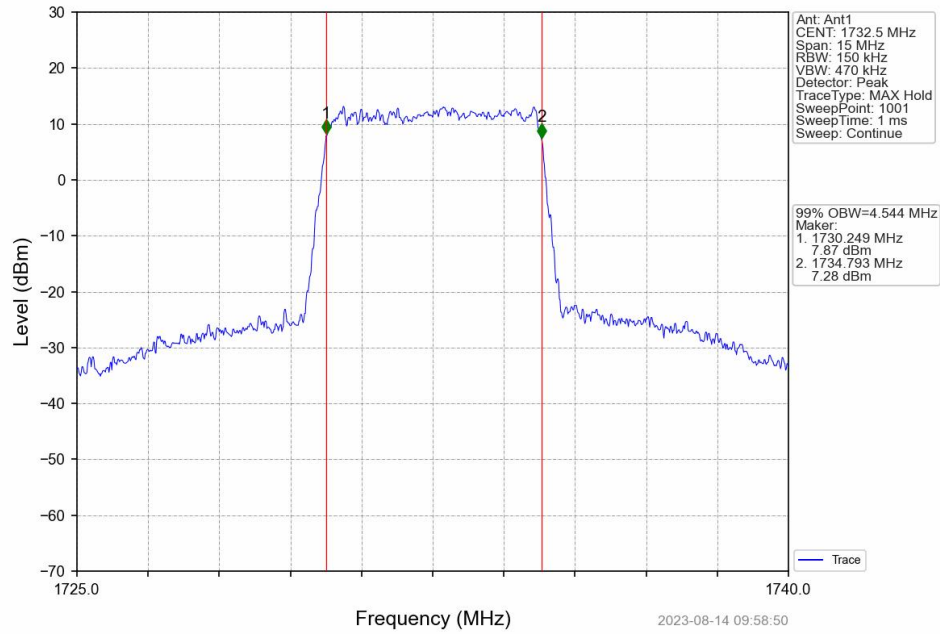
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



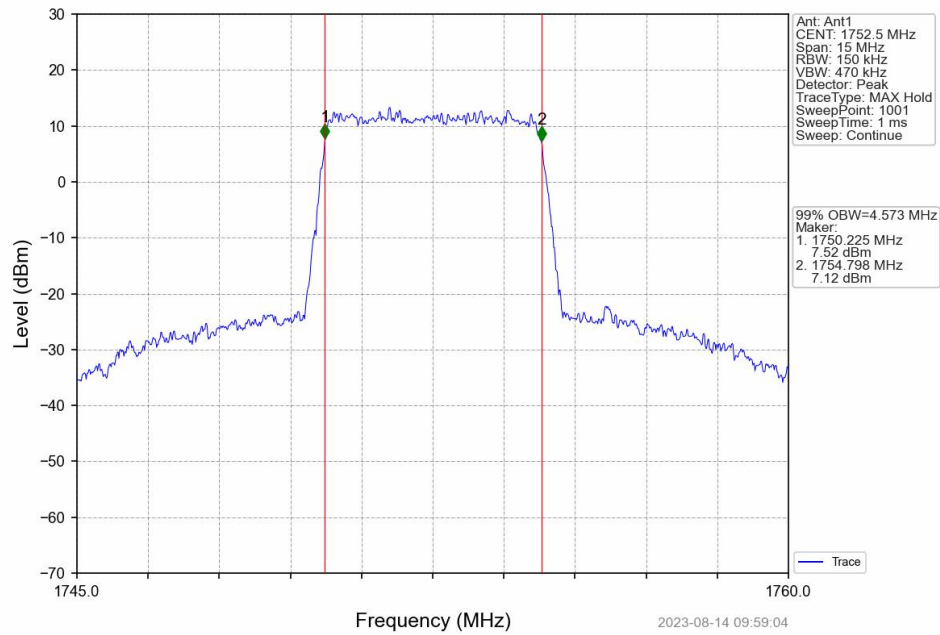
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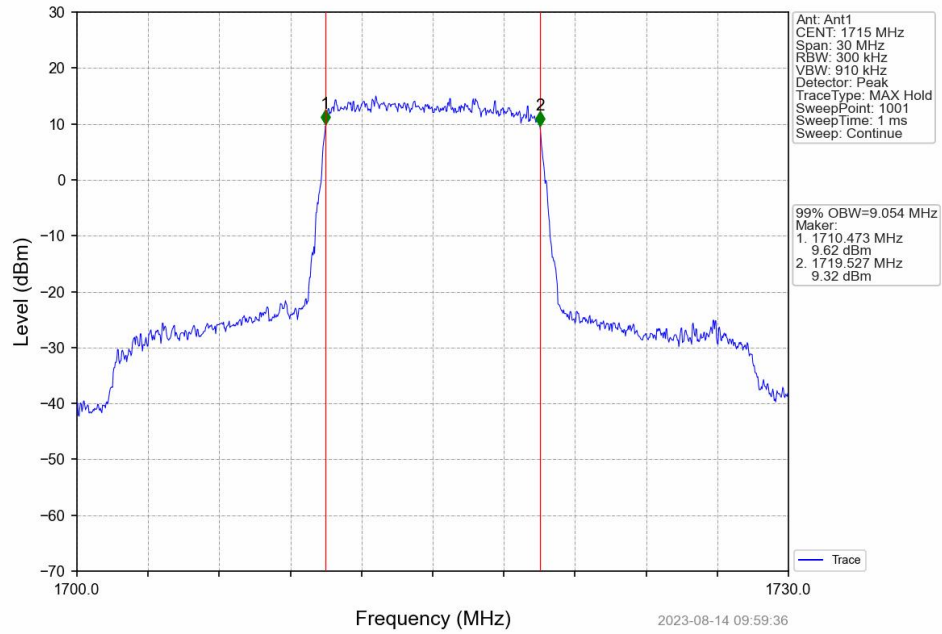
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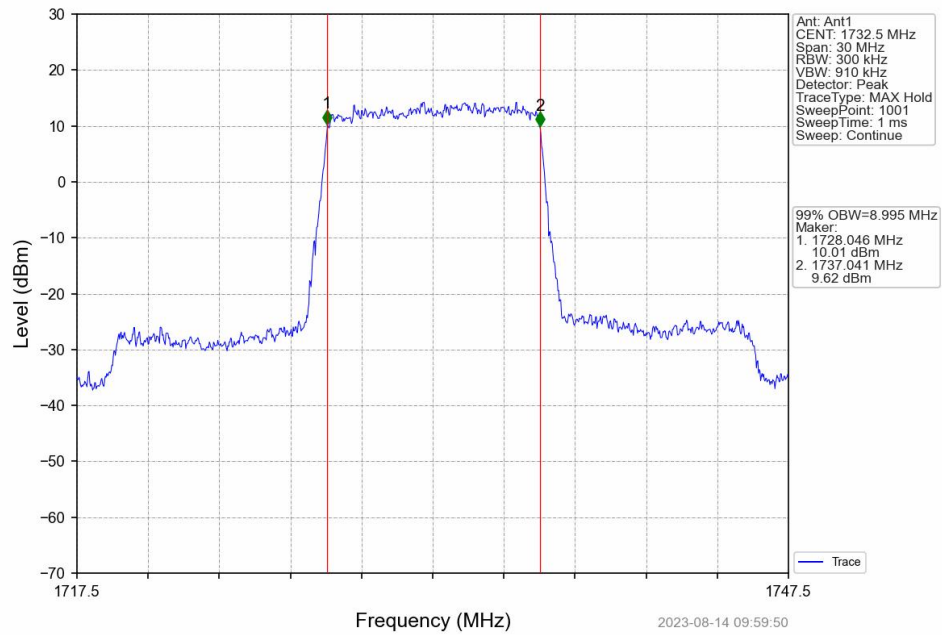
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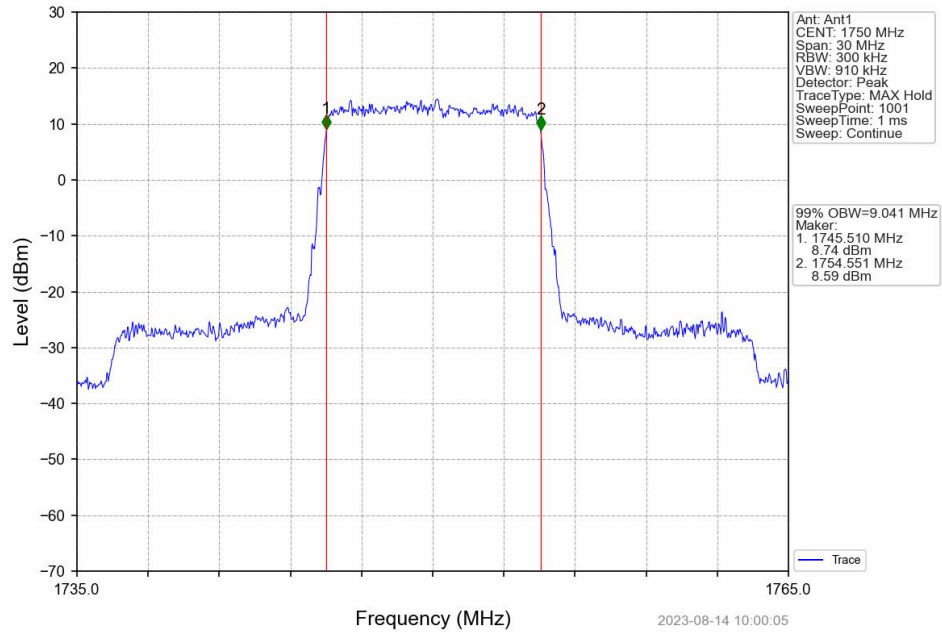
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



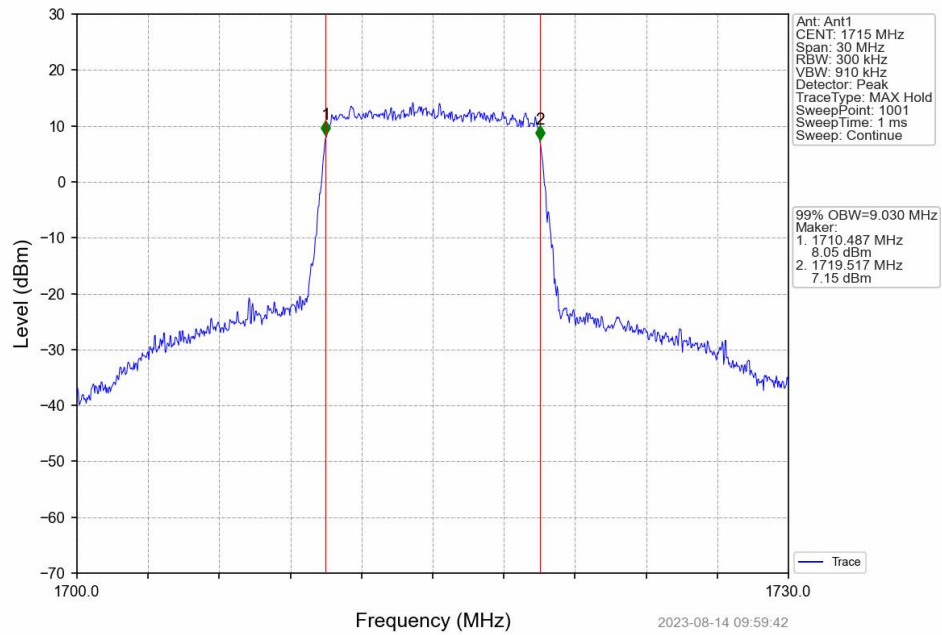
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



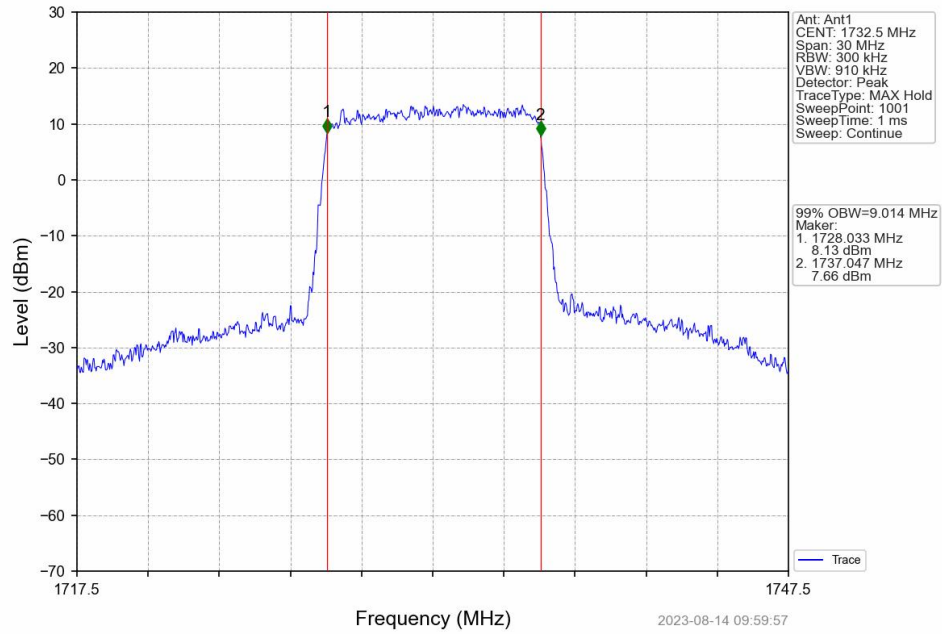
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



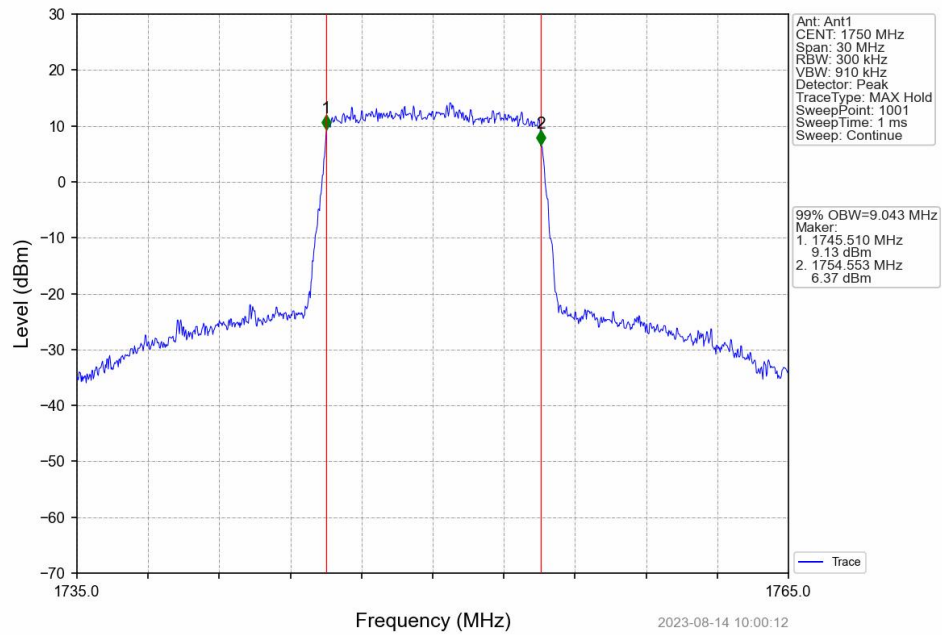
Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTN



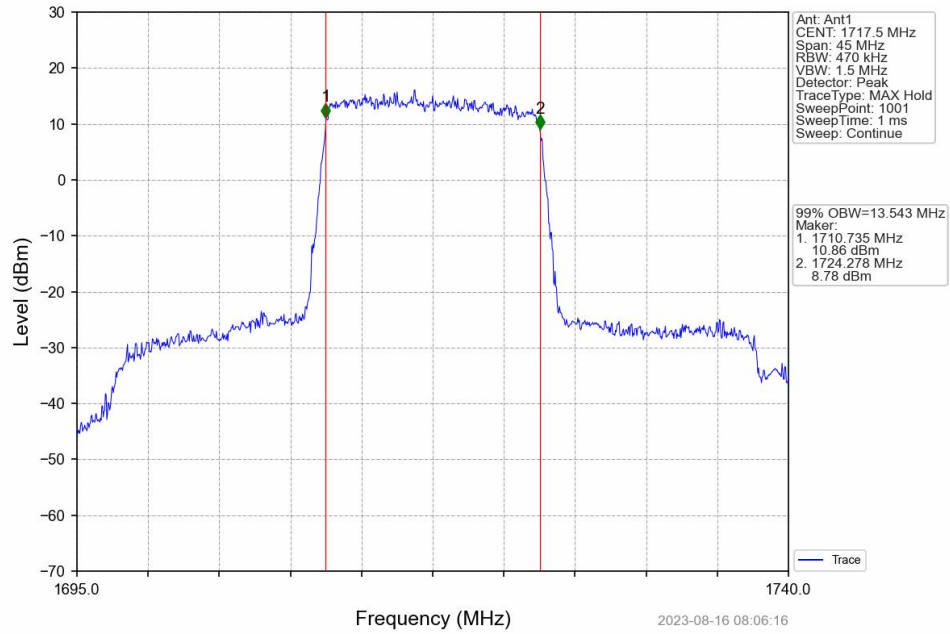
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



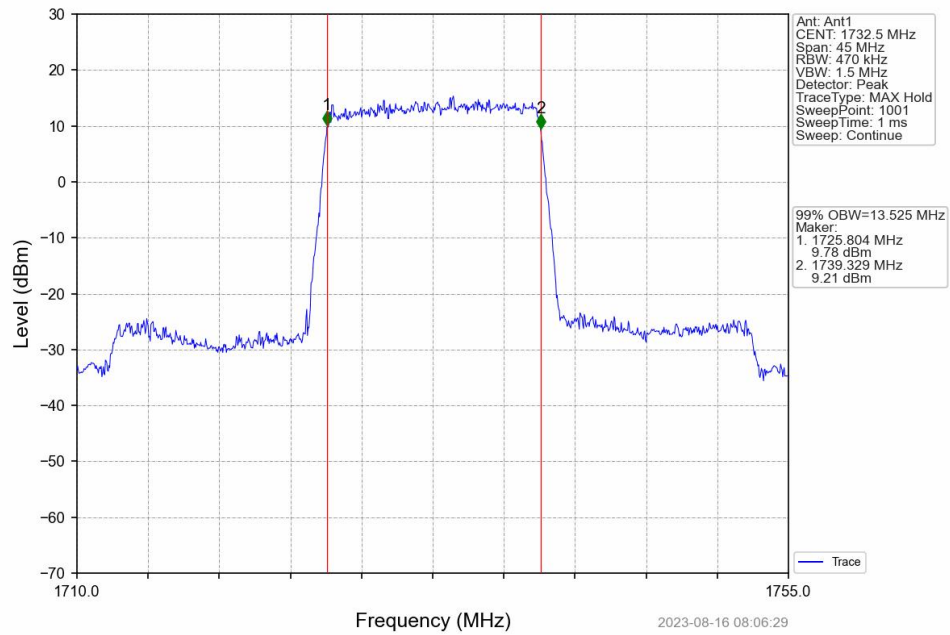
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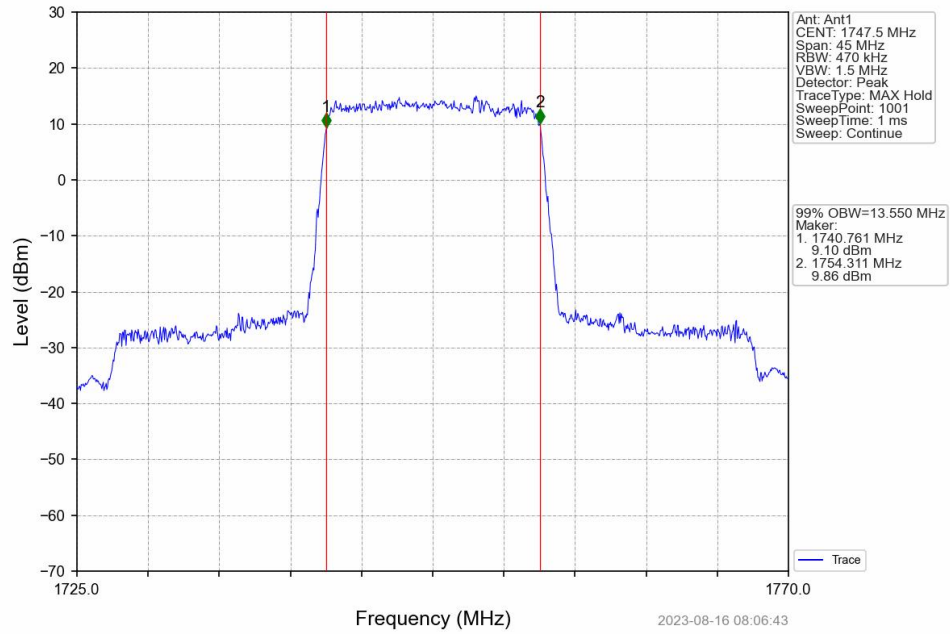
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



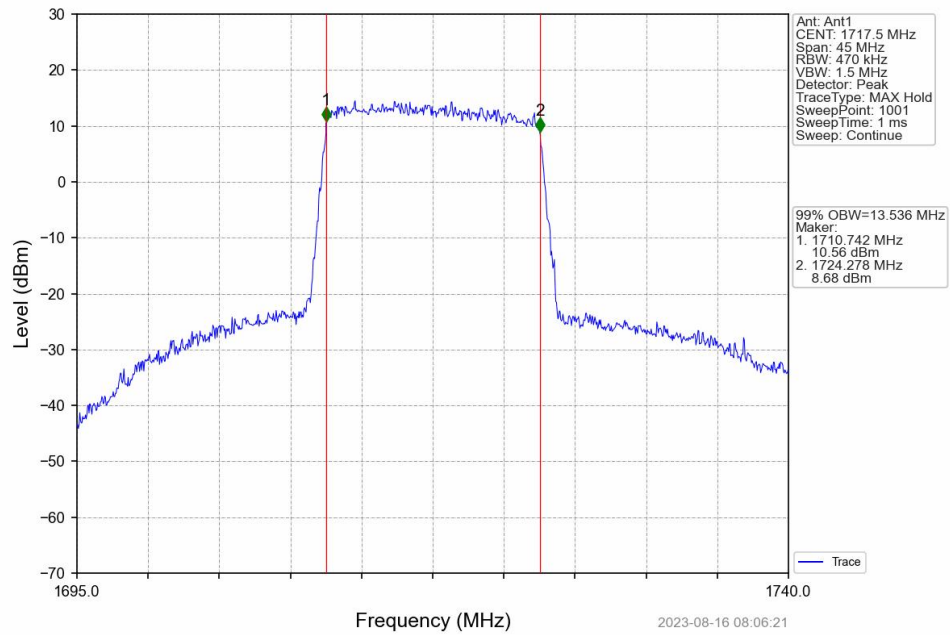
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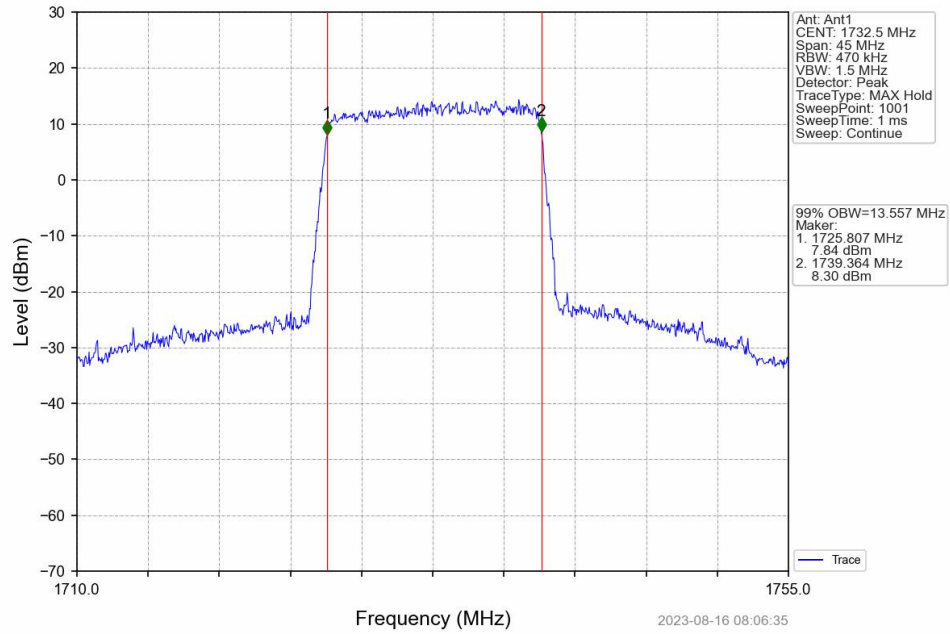
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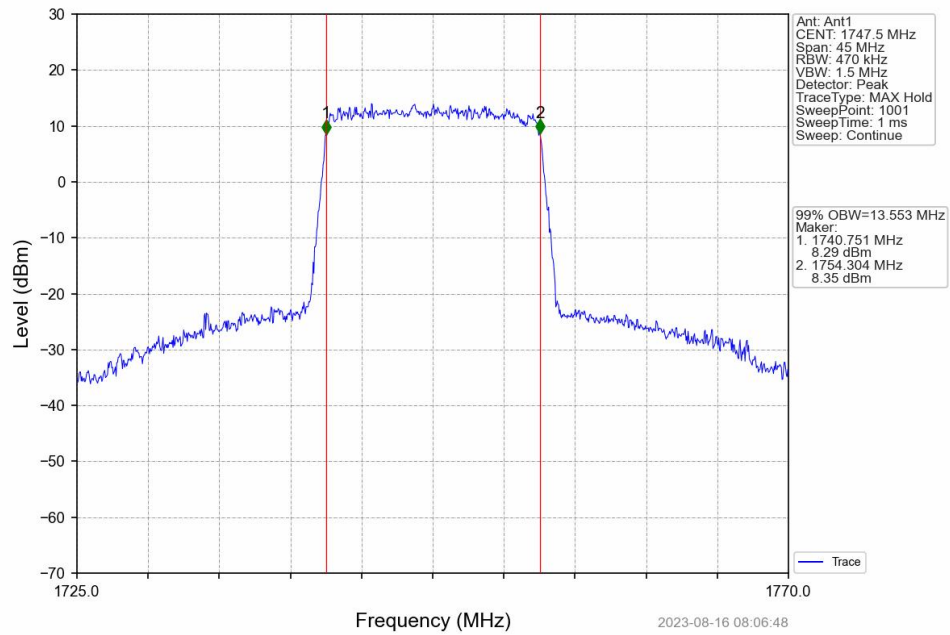
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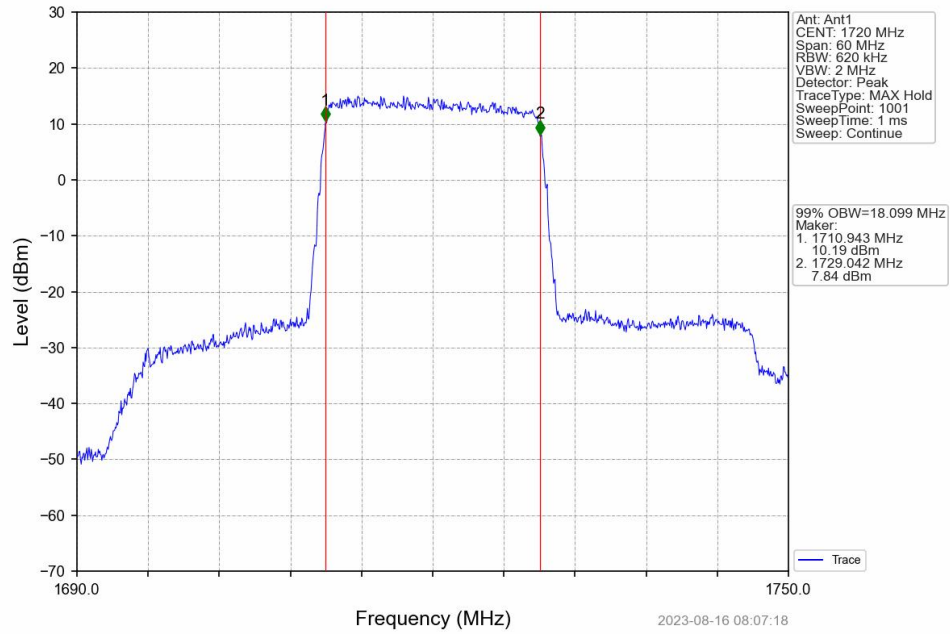
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



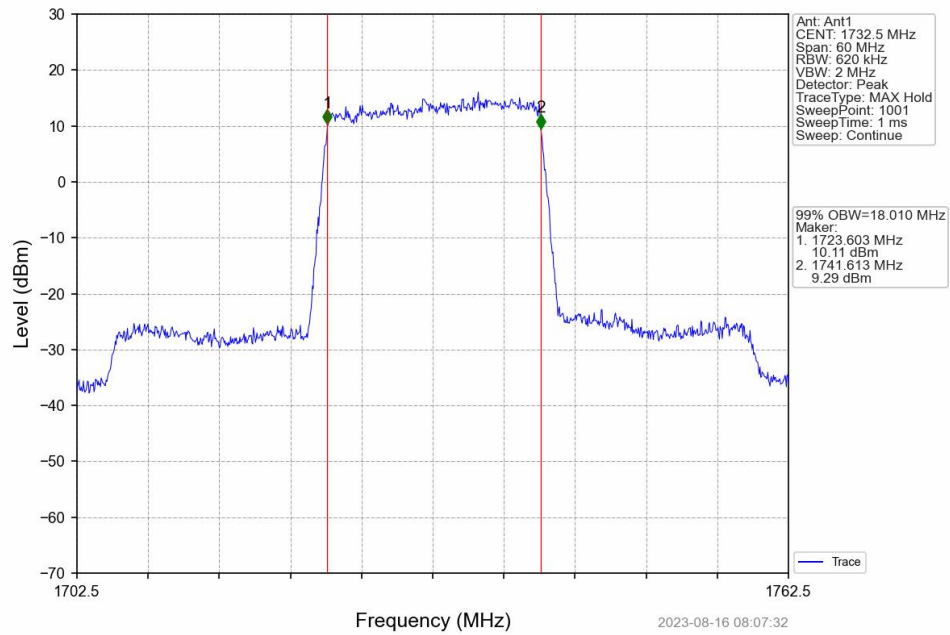
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



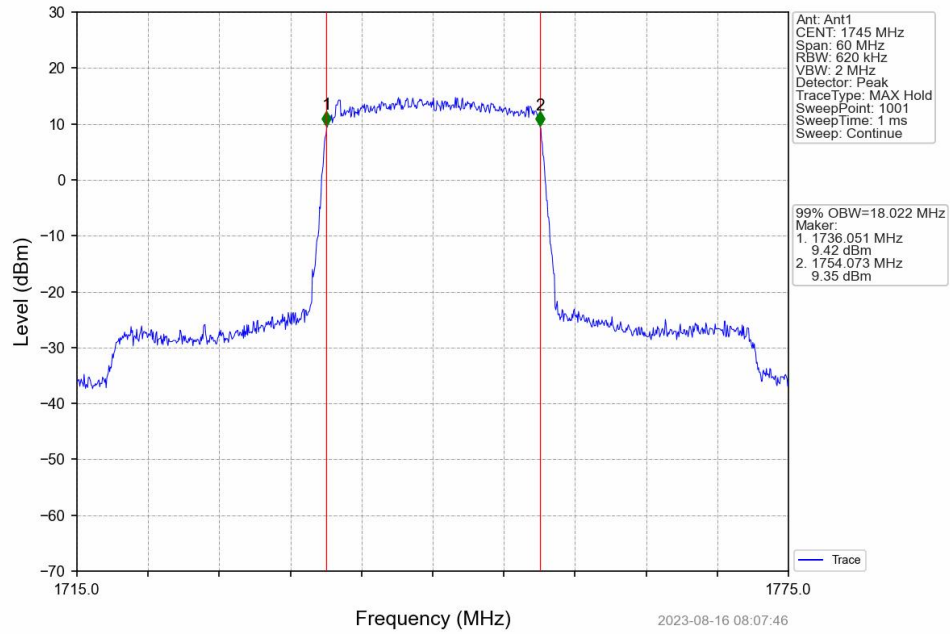
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



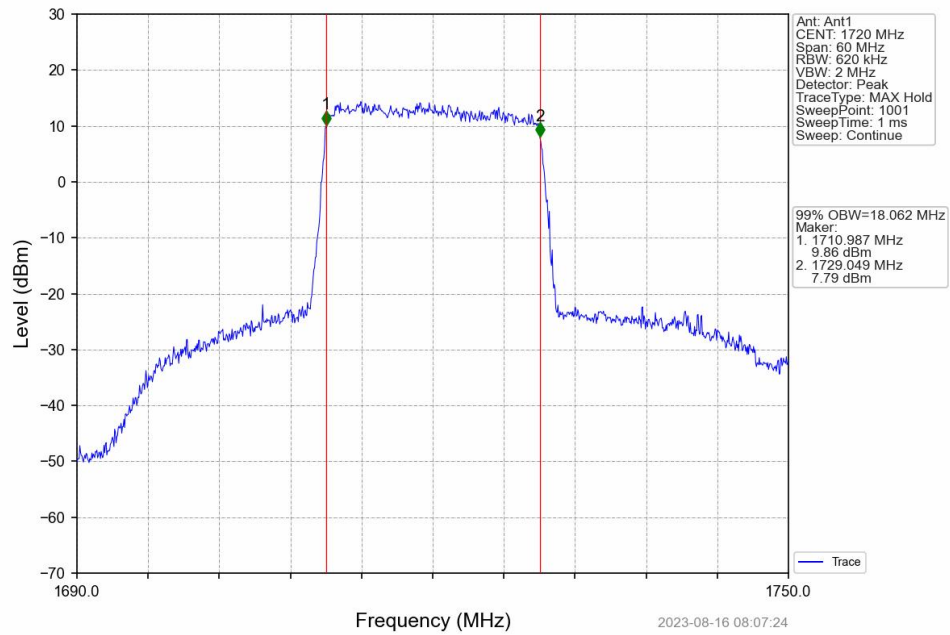
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



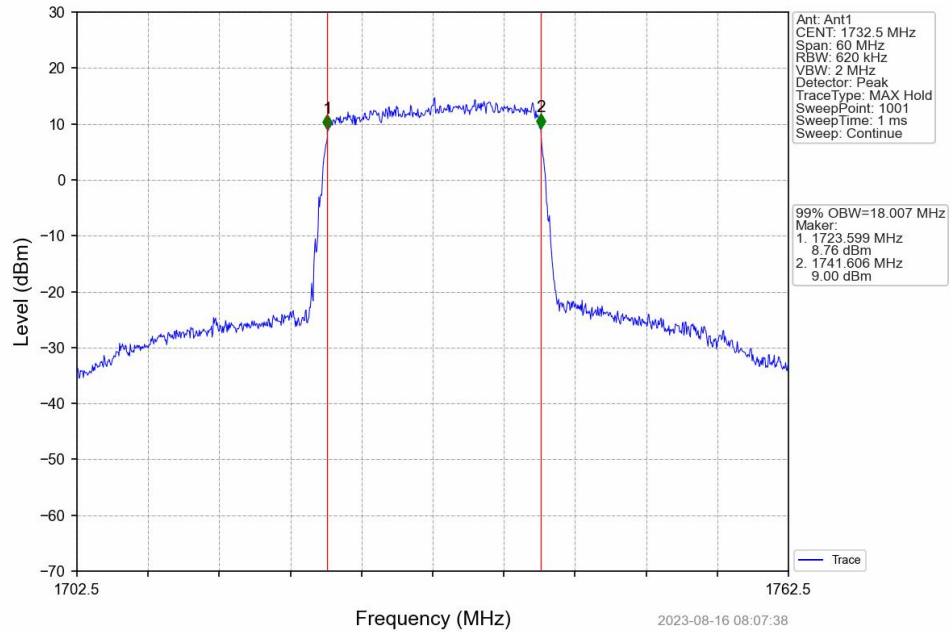
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



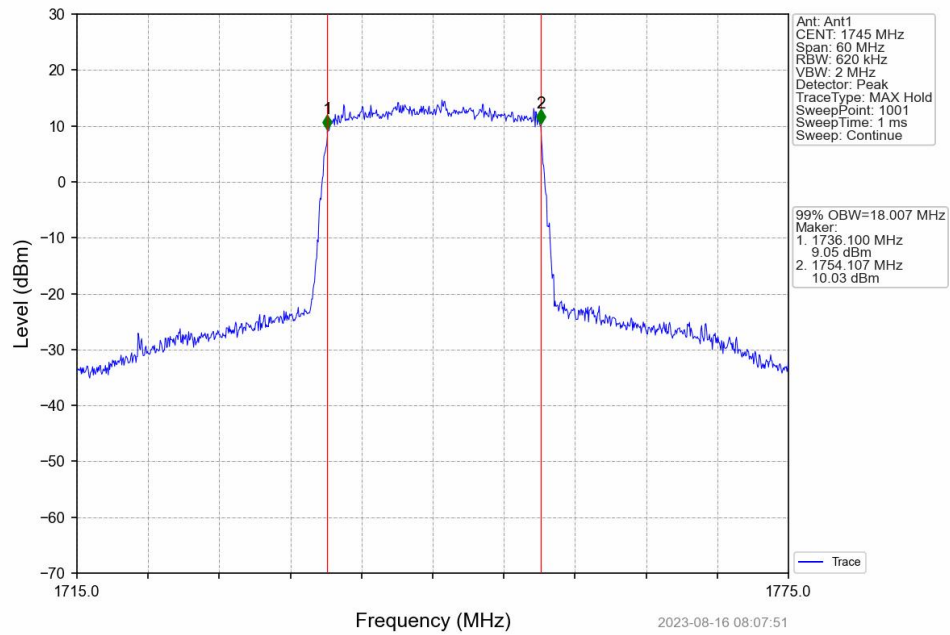
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

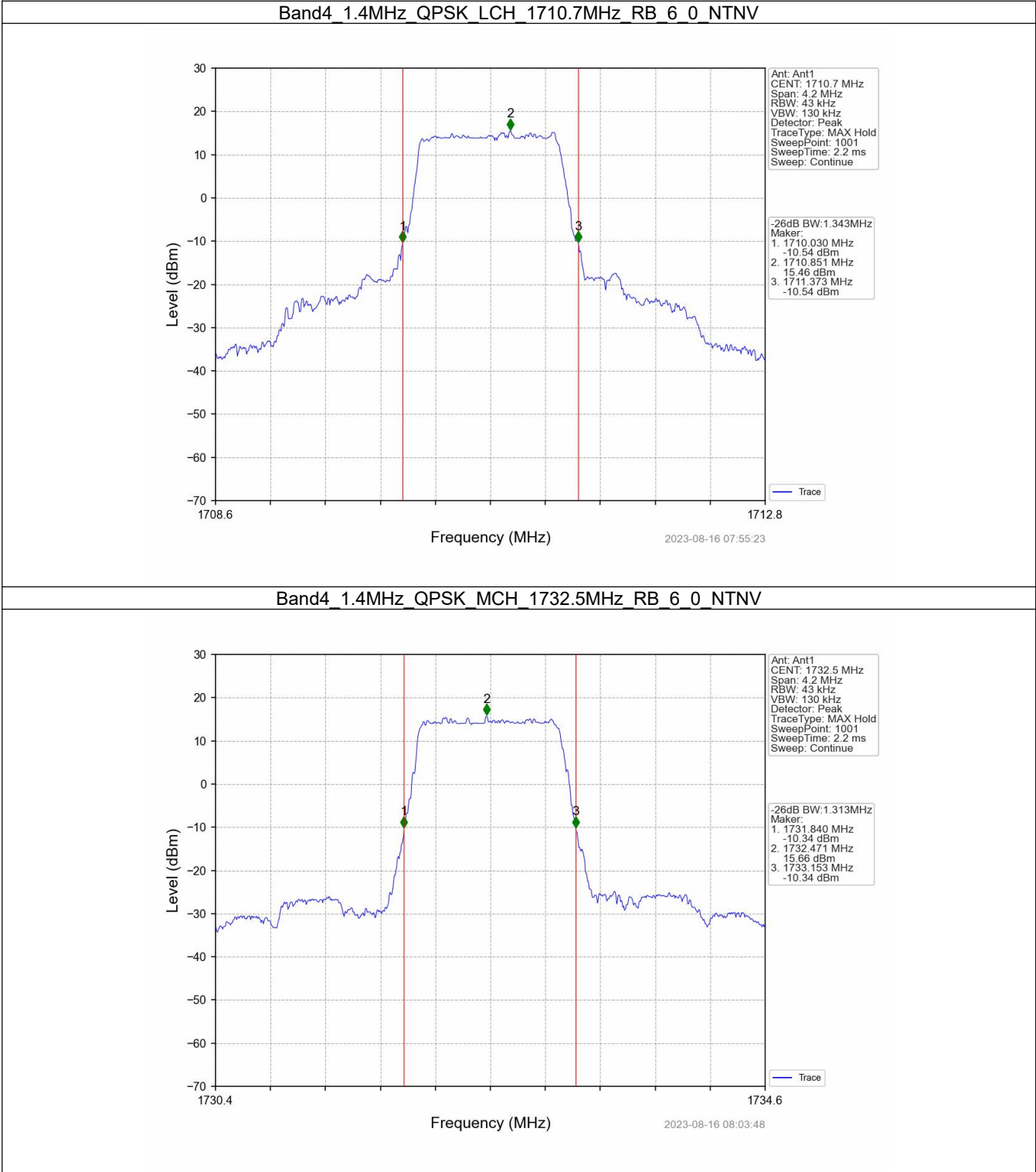


4.2 Band4_XDB

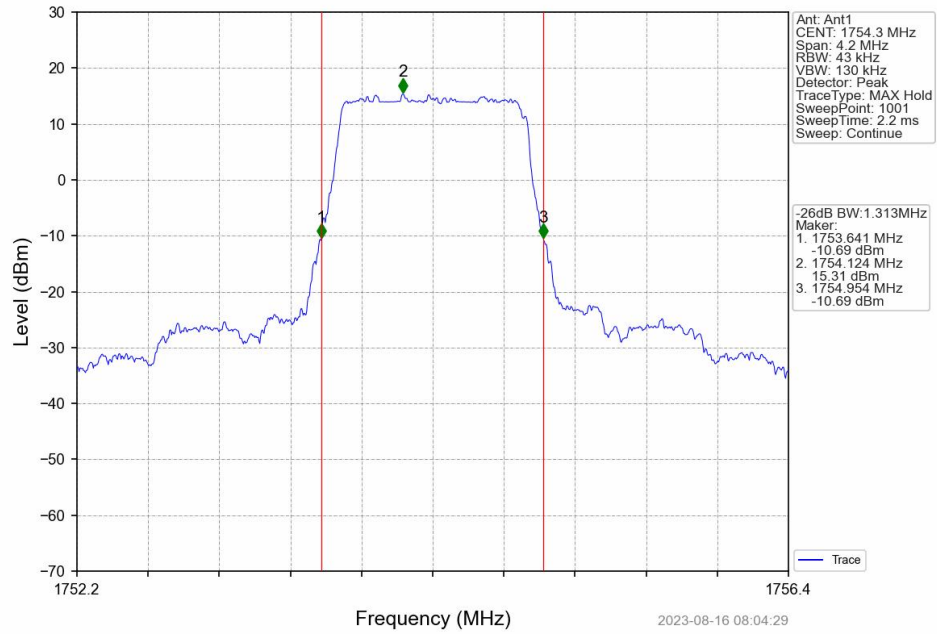
4.2.1 Test Result

Band: 4 / NTN						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.343	Pass
		1732.5	6	0	1.313	Pass
		1754.3	6	0	1.313	Pass
	16QAM	1710.7	6	0	1.338	Pass
		1732.5	6	0	1.330	Pass
		1754.3	6	0	1.329	Pass
3	QPSK	1711.5	15	0	3.062	Pass
		1732.5	15	0	3.048	Pass
		1753.5	15	0	3.060	Pass
	16QAM	1711.5	15	0	3.069	Pass
		1732.5	15	0	3.037	Pass
		1753.5	15	0	3.048	Pass
5	QPSK	1712.5	25	0	5.091	Pass
		1732.5	25	0	5.080	Pass
		1752.5	25	0	5.070	Pass
	16QAM	1712.5	25	0	5.117	Pass
		1732.5	25	0	5.103	Pass
		1752.5	25	0	5.127	Pass
10	QPSK	1715	50	0	9.944	Pass
		1732.5	50	0	10.081	Pass
		1750	50	0	10.118	Pass
	16QAM	1715	50	0	10.045	Pass
		1732.5	50	0	9.972	Pass
		1750	50	0	10.046	Pass
15	QPSK	1717.5	75	0	14.932	Pass
		1732.5	75	0	14.962	Pass
		1747.5	75	0	14.956	Pass
	16QAM	1717.5	75	0	14.878	Pass
		1732.5	75	0	14.990	Pass
		1747.5	75	0	15.002	Pass
20	QPSK	1720	100	0	19.698	Pass
		1732.5	100	0	19.750	Pass
		1745	100	0	19.687	Pass
	16QAM	1720	100	0	19.697	Pass
		1732.5	100	0	19.885	Pass
		1745	100	0	19.670	Pass

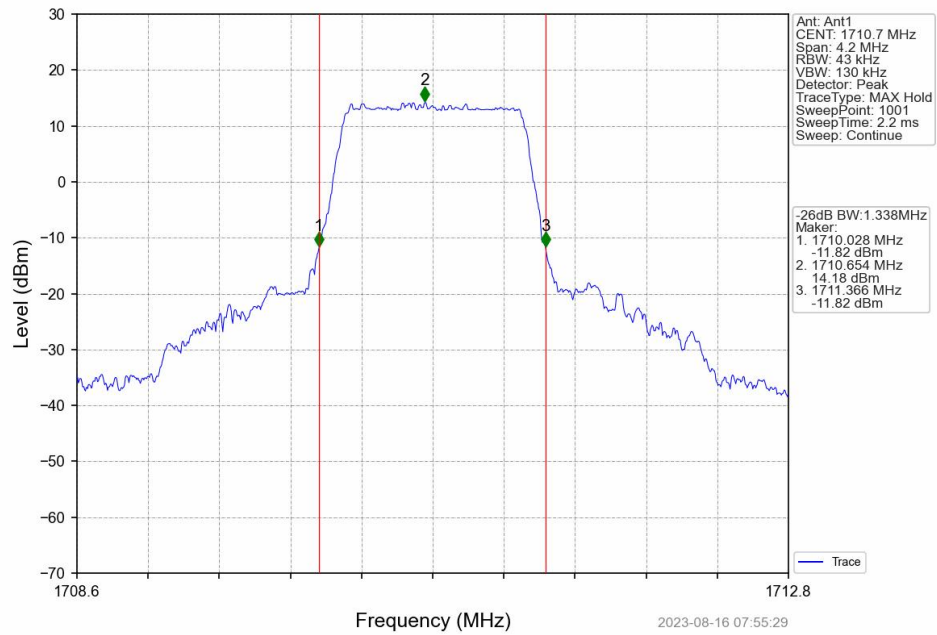
4.2.2 Test Graph



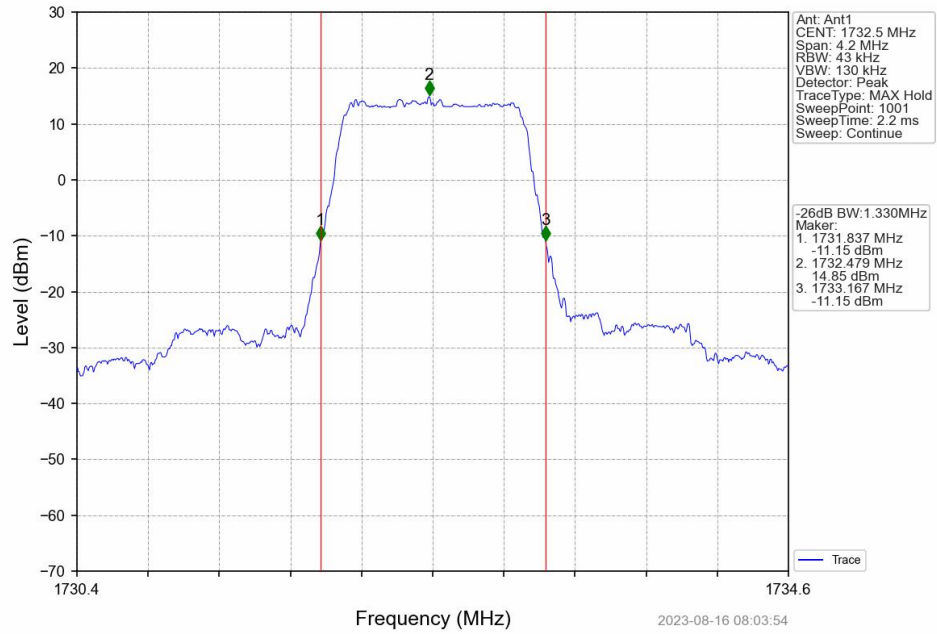
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



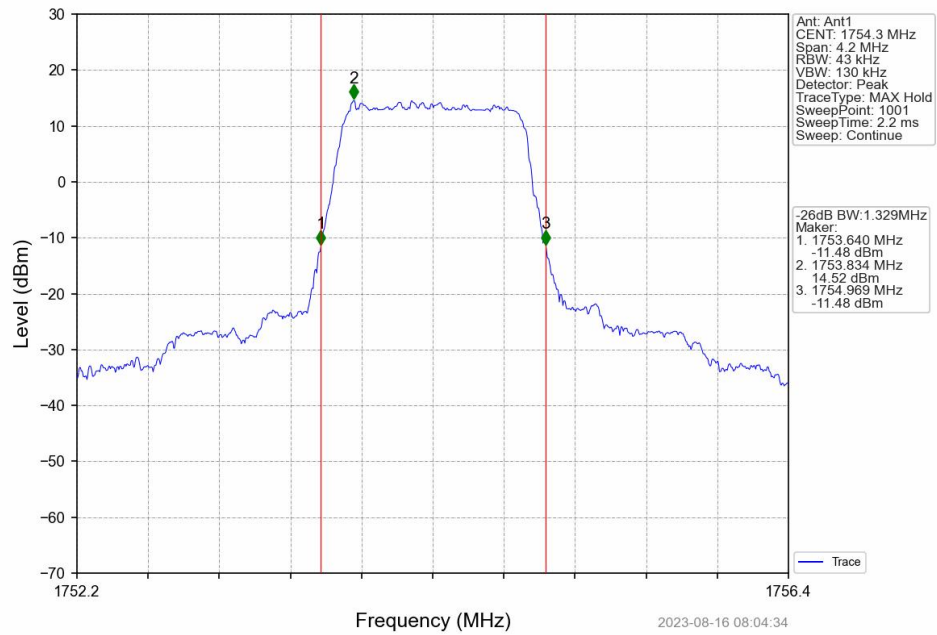
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



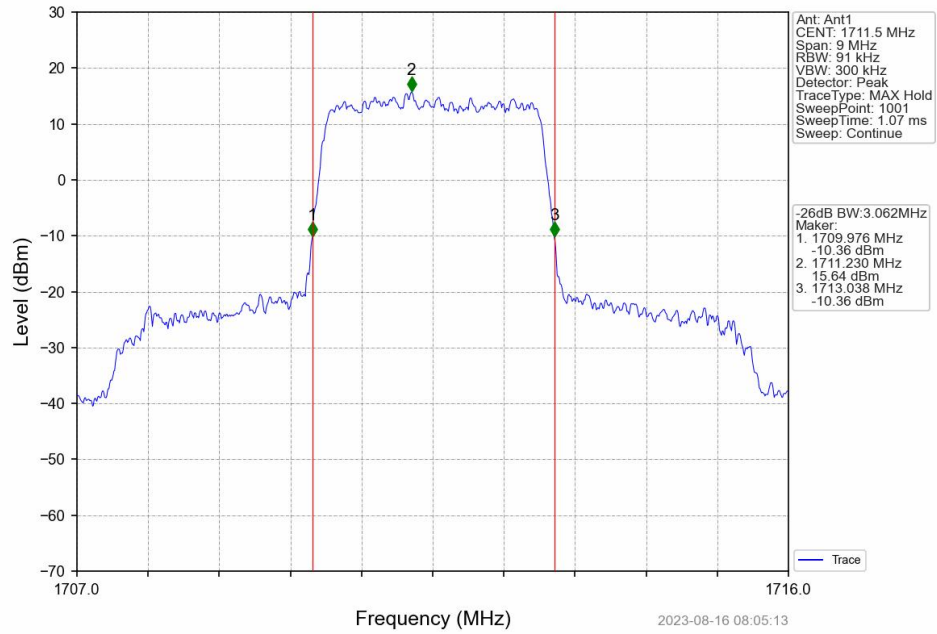
Band4 1.4MHz 16QAM MCH 1732.5MHz RB_6 0 NTNV



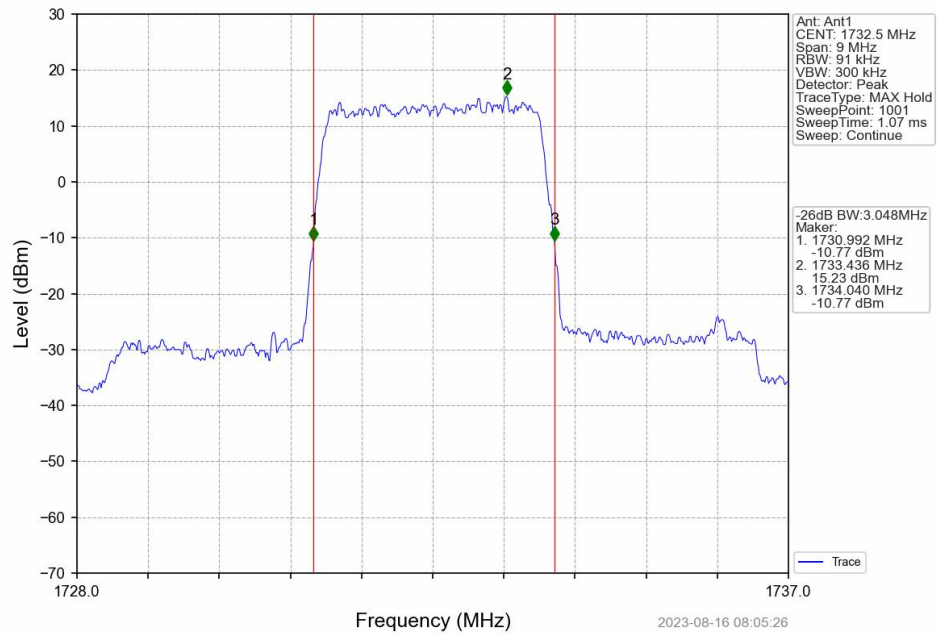
Band4 1.4MHz 16QAM HCH 1754.3MHz RB_6 0 NTNV



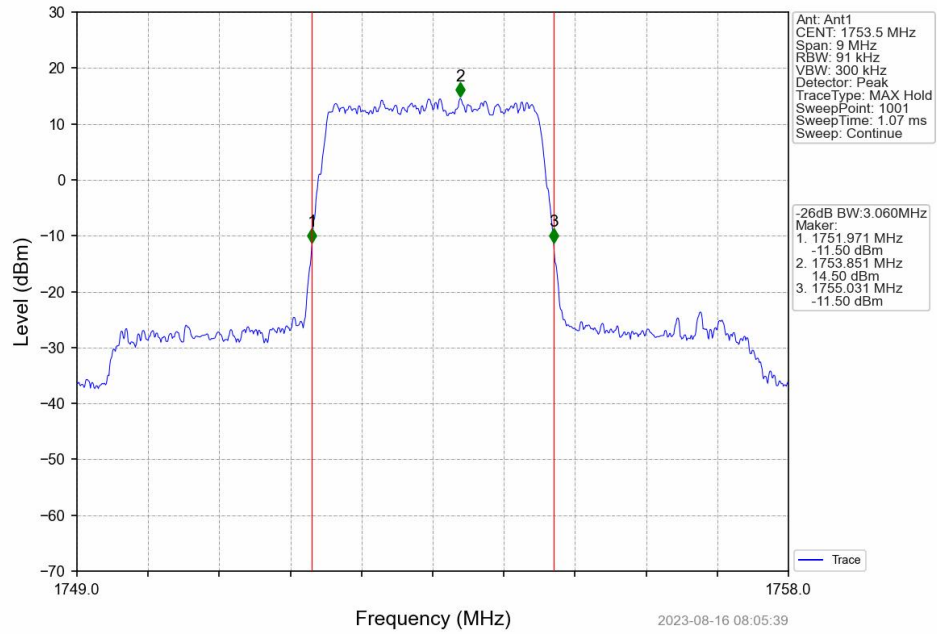
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



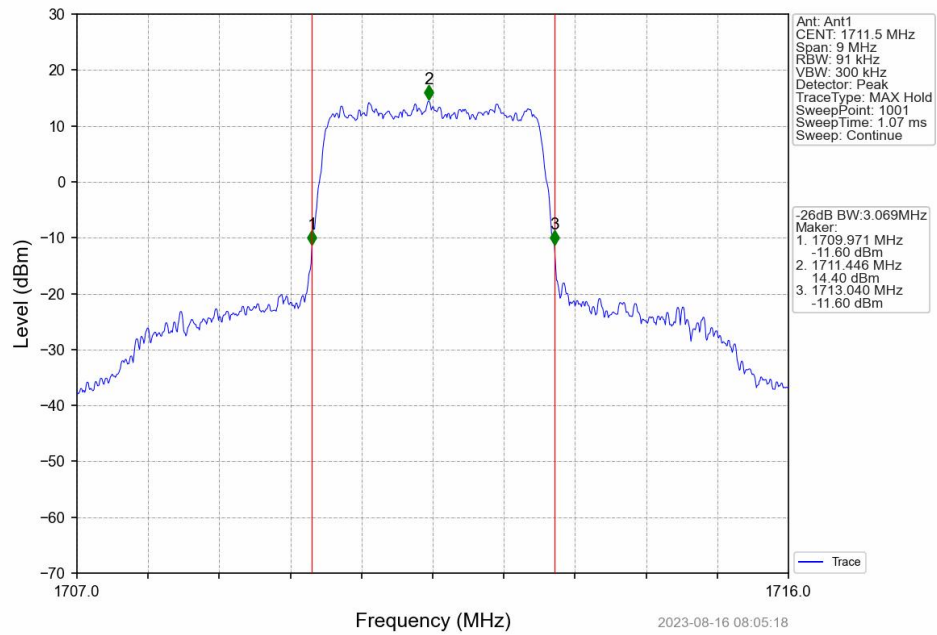
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



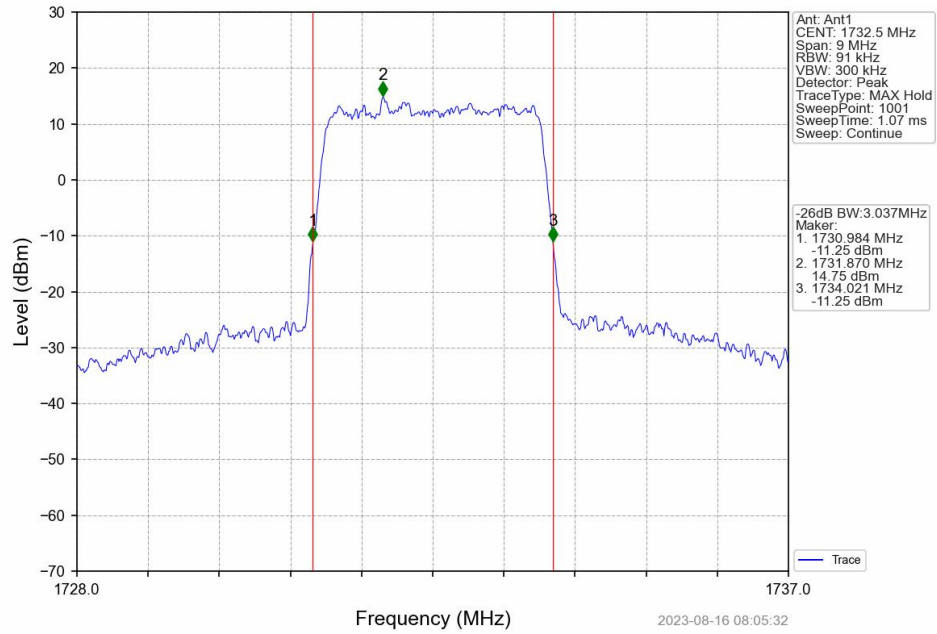
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



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

