

Appendix - LTE_band_4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	20.93	0.72	21.65	<=30	Pass
			2	20.98	0.72	21.70	<=30	Pass
			5	20.96	0.72	21.68	<=30	Pass
		3	0	20.92	0.72	21.64	<=30	Pass
			2	20.91	0.72	21.63	<=30	Pass
			3	20.94	0.72	21.66	<=30	Pass
		6	0	21.00	0.72	21.72	<=30	Pass
	1732.5	1	0	22.04	0.72	22.76	<=30	Pass
			2	22.02	0.72	22.74	<=30	Pass
			5	22.04	0.72	22.76	<=30	Pass
		3	0	22.03	0.72	22.75	<=30	Pass
			2	22.06	0.72	22.78	<=30	Pass
			3	21.99	0.72	22.71	<=30	Pass
		6	0	21.08	0.72	21.80	<=30	Pass
	1754.3	1	0	22.07	0.72	22.79	<=30	Pass
			2	22.12	0.72	22.84	<=30	Pass
			5	22.15	0.72	22.87	<=30	Pass
		3	0	22.12	0.72	22.84	<=30	Pass
			2	22.17	0.72	22.89	<=30	Pass
			3	22.14	0.72	22.86	<=30	Pass
		6	0	21.23	0.72	21.95	<=30	Pass
16QAM	1710.7	1	0	20.98	0.72	21.70	<=30	Pass
			2	20.97	0.72	21.69	<=30	Pass
			5	20.96	0.72	21.68	<=30	Pass
		3	0	20.95	0.72	21.67	<=30	Pass
			2	21.00	0.72	21.72	<=30	Pass
			3	21.04	0.72	21.76	<=30	Pass
		6	0	21.03	0.72	21.75	<=30	Pass
	1732.5	1	0	21.13	0.72	21.85	<=30	Pass
			2	21.07	0.72	21.79	<=30	Pass
			5	21.07	0.72	21.79	<=30	Pass
		3	0	20.93	0.72	21.65	<=30	Pass
			2	20.87	0.72	21.59	<=30	Pass
			3	20.83	0.72	21.55	<=30	Pass
		6	0	20.56	0.72	21.28	<=30	Pass
	1754.3	1	0	21.97	0.72	22.69	<=30	Pass
			2	21.98	0.72	22.70	<=30	Pass
			5	21.96	0.72	22.68	<=30	Pass
		3	0	20.92	0.72	21.64	<=30	Pass
			2	21.02	0.72	21.74	<=30	Pass
			3	21.04	0.72	21.76	<=30	Pass
		6	0	20.33	0.72	21.05	<=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	21.94	0.72	22.66	<=30	Pass	
			7	21.96	0.72	22.68	<=30	Pass	
			14	21.89	0.72	22.61	<=30	Pass	
		8	0	21.03	0.72	21.75	<=30	Pass	
			4	21.01	0.72	21.73	<=30	Pass	
			7	21.02	0.72	21.74	<=30	Pass	
		15	0	20.93	0.72	21.65	<=30	Pass	
		1732.5	1	0	21.96	0.72	22.68	<=30	Pass
				7	21.97	0.72	22.69	<=30	Pass
	14			21.96	0.72	22.68	<=30	Pass	
	8		0	21.02	0.72	21.74	<=30	Pass	
			4	21.07	0.72	21.79	<=30	Pass	
			7	21.04	0.72	21.76	<=30	Pass	
	15	0	21.01	0.72	21.73	<=30	Pass		
	1753.5	1	0	22.10	0.72	22.82	<=30	Pass	
			7	22.08	0.72	22.80	<=30	Pass	
			14	22.13	0.72	22.85	<=30	Pass	
		8	0	21.24	0.72	21.96	<=30	Pass	
			4	21.15	0.72	21.87	<=30	Pass	
			7	21.26	0.72	21.98	<=30	Pass	
		15	0	21.22	0.72	21.94	<=30	Pass	
16QAM		1711.5	1	0	20.92	0.72	21.64	<=30	Pass
				7	21.00	0.72	21.72	<=30	Pass
	14			20.97	0.72	21.69	<=30	Pass	
	8		0	20.17	0.72	20.89	<=30	Pass	
			4	20.24	0.72	20.96	<=30	Pass	
			7	20.56	0.72	21.28	<=30	Pass	
	15		0	20.11	0.72	20.83	<=30	Pass	
	1732.5		1	0	22.28	0.72	23.00	<=30	Pass
				7	22.34	0.72	23.06	<=30	Pass
		14		22.25	0.72	22.97	<=30	Pass	
		8	0	20.13	0.72	20.85	<=30	Pass	
			4	20.51	0.72	21.23	<=30	Pass	
			7	20.56	0.72	21.28	<=30	Pass	
	15	0	20.42	0.72	21.14	<=30	Pass		
	1753.5	1	0	21.80	0.72	22.52	<=30	Pass	
			7	21.71	0.72	22.43	<=30	Pass	
			14	21.79	0.72	22.51	<=30	Pass	
		8	0	20.49	0.72	21.21	<=30	Pass	
			4	20.46	0.72	21.18	<=30	Pass	
			7	20.46	0.72	21.18	<=30	Pass	
		15	0	20.31	0.72	21.03	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	20.98	0.72	21.70	<=30	Pass
			13	21.02	0.72	21.74	<=30	Pass
			24	21.00	0.72	21.72	<=30	Pass
		12	0	20.97	0.72	21.69	<=30	Pass
			6	20.94	0.72	21.66	<=30	Pass
			13	20.94	0.72	21.66	<=30	Pass

	1732.5	25	0	21.04	0.72	21.76	<=30	Pass		
			0	20.97	0.72	21.69	<=30	Pass		
		1	13	21.07	0.72	21.79	<=30	Pass		
			24	21.06	0.72	21.78	<=30	Pass		
			12	0	21.06	0.72	21.78	<=30	Pass	
				6	21.05	0.72	21.77	<=30	Pass	
		13		21.05	0.72	21.77	<=30	Pass		
		25		0	21.04	0.72	21.76	<=30	Pass	
		1752.5	1	0	21.05	0.72	21.77	<=30	Pass	
				13	21.05	0.72	21.77	<=30	Pass	
				24	21.06	0.72	21.78	<=30	Pass	
				12	0	21.06	0.72	21.78	<=30	Pass
			6		21.07	0.72	21.79	<=30	Pass	
			13		21.07	0.72	21.79	<=30	Pass	
	25		0		21.07	0.72	21.79	<=30	Pass	
	16QAM		1712.5	1	0	21.01	0.72	21.73	<=30	Pass
					13	21.02	0.72	21.74	<=30	Pass
					24	21.01	0.72	21.73	<=30	Pass
		12			0	21.01	0.72	21.73	<=30	Pass
				6	21.00	0.72	21.72	<=30	Pass	
				13	21.00	0.72	21.72	<=30	Pass	
				25	0	20.99	0.72	21.71	<=30	Pass
1732.5		1		0	21.04	0.72	21.76	<=30	Pass	
				13	21.03	0.72	21.75	<=30	Pass	
				24	21.03	0.72	21.75	<=30	Pass	
			12	0	21.03	0.72	21.75	<=30	Pass	
		6		21.03	0.72	21.75	<=30	Pass		
		13		21.03	0.72	21.75	<=30	Pass		
		25		0	21.03	0.72	21.75	<=30	Pass	
		1752.5	1	0	21.07	0.72	21.79	<=30	Pass	
13				21.08	0.72	21.80	<=30	Pass		
24				21.08	0.72	21.80	<=30	Pass		
12				0	21.08	0.72	21.80	<=30	Pass	
				6	21.08	0.72	21.80	<=30	Pass	
				13	21.08	0.72	21.80	<=30	Pass	
			25	0	21.08	0.72	21.80	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain										

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	21.88	0.72	22.60	<=30	Pass
			25	21.94	0.72	22.66	<=30	Pass
			49	21.95	0.72	22.67	<=30	Pass
		25	0	20.91	0.72	21.63	<=30	Pass
			13	21.04	0.72	21.76	<=30	Pass
			25	21.04	0.72	21.76	<=30	Pass
		50	0	21.02	0.72	21.74	<=30	Pass
	1732.5	1	0	21.97	0.72	22.69	<=30	Pass
			25	22.03	0.72	22.75	<=30	Pass
			49	22.03	0.72	22.75	<=30	Pass
		25	0	21.00	0.72	21.72	<=30	Pass
			13	21.02	0.72	21.74	<=30	Pass
			25	21.06	0.72	21.78	<=30	Pass
		50	0	21.03	0.72	21.75	<=30	Pass
	1750	1	0	22.09	0.72	22.81	<=30	Pass

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Page 3 of 196

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16QAM		25	25	22.20	0.72	22.92	<=30	Pass
			49	22.16	0.72	22.88	<=30	Pass
			0	21.11	0.72	21.83	<=30	Pass
			13	21.23	0.72	21.95	<=30	Pass
			25	21.13	0.72	21.85	<=30	Pass
	1715	1	0	21.19	0.72	21.91	<=30	Pass
			25	21.61	0.72	22.33	<=30	Pass
			49	21.67	0.72	22.39	<=30	Pass
		25	0	21.74	0.72	22.46	<=30	Pass
			25	20.35	0.72	21.07	<=30	Pass
			13	20.06	0.72	20.78	<=30	Pass
	1732.5	1	25	20.06	0.72	20.78	<=30	Pass
			0	20.06	0.72	20.78	<=30	Pass
			25	20.06	0.72	20.78	<=30	Pass
		25	0	20.08	0.72	20.80	<=30	Pass
			0	20.08	0.72	20.80	<=30	Pass
			25	20.08	0.72	20.80	<=30	Pass
		50	0	20.21	0.72	21.93	<=30	Pass
			25	21.21	0.72	21.93	<=30	Pass
			49	21.22	0.72	21.94	<=30	Pass
			0	21.22	0.72	21.94	<=30	Pass
	1750	1	0	20.25	0.72	20.97	<=30	Pass
			25	20.25	0.72	20.97	<=30	Pass
			49	20.25	0.72	20.97	<=30	Pass
		25	0	20.63	0.72	21.35	<=30	Pass
			13	20.63	0.72	21.35	<=30	Pass
			25	20.63	0.72	21.35	<=30	Pass
		50	25	20.26	0.72	20.98	<=30	Pass
			0	20.26	0.72	20.98	<=30	Pass
			0	20.48	0.72	21.20	<=30	Pass
			25	20.48	0.72	21.20	<=30	Pass
		1	0	22.13	0.72	22.85	<=30	Pass
			25	22.13	0.72	22.85	<=30	Pass
			49	22.15	0.72	22.87	<=30	Pass
		25	0	22.26	0.72	22.98	<=30	Pass
			13	22.26	0.72	22.98	<=30	Pass
			25	22.26	0.72	22.98	<=30	Pass
		50	0	20.25	0.72	20.97	<=30	Pass
			25	20.25	0.72	20.97	<=30	Pass
			0	20.32	0.72	21.04	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	21.80	0.72	22.52	<=30	Pass
			38	21.82	0.72	22.54	<=30	Pass
			74	21.83	0.72	22.55	<=30	Pass
		36	0	21.00	0.72	21.72	<=30	Pass
			18	21.09	0.72	21.81	<=30	Pass
			39	21.04	0.72	21.76	<=30	Pass
		75	0	21.14	0.72	21.86	<=30	Pass
			0	21.14	0.72	21.86	<=30	Pass
			25	21.14	0.72	21.86	<=30	Pass
	1732.5	1	0	22.09	0.72	22.81	<=30	Pass
			38	22.10	0.72	22.82	<=30	Pass
			74	22.09	0.72	22.81	<=30	Pass
		36	0	20.92	0.72	21.64	<=30	Pass
			18	21.04	0.72	21.76	<=30	Pass
			39	21.04	0.72	21.76	<=30	Pass
		75	0	20.99	0.72	21.71	<=30	Pass
			0	20.96	0.72	21.68	<=30	Pass
			25	20.96	0.72	21.68	<=30	Pass
	1747.5	1	0	22.03	0.72	22.75	<=30	Pass
			38	22.09	0.72	22.81	<=30	Pass
			74	22.15	0.72	22.87	<=30	Pass
		36	0	21.08	0.72	21.80	<=30	Pass
			18	21.01	0.72	21.73	<=30	Pass
			39	21.09	0.72	21.81	<=30	Pass
		75	0	21.05	0.72	21.77	<=30	Pass
			0	21.05	0.72	21.77	<=30	Pass
			25	21.05	0.72	21.77	<=30	Pass
16QAM	1717.5	1	0	21.60	0.72	22.32	<=30	Pass
			38	21.72	0.72	22.44	<=30	Pass
			74	21.69	0.72	22.41	<=30	Pass

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Page 4 of 196

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	1732.5	36	0	20.06	0.72	20.78	<=30	Pass
			18	20.09	0.72	20.81	<=30	Pass
			39	20.43	0.72	21.15	<=30	Pass
		75	0	19.99	0.72	20.71	<=30	Pass
			0	21.67	0.72	22.39	<=30	Pass
			38	21.72	0.72	22.44	<=30	Pass
			74	21.69	0.72	22.41	<=30	Pass
		36	0	20.13	0.72	20.85	<=30	Pass
			18	20.52	0.72	21.24	<=30	Pass
			39	20.17	0.72	20.89	<=30	Pass
	1747.5	75	0	20.53	0.72	21.25	<=30	Pass
			0	21.77	0.72	22.49	<=30	Pass
			38	21.82	0.72	22.54	<=30	Pass
		1	74	21.96	0.72	22.68	<=30	Pass
			0	20.49	0.72	21.21	<=30	Pass
			18	20.25	0.72	20.97	<=30	Pass
			39	20.19	0.72	20.91	<=30	Pass
		36	0	20.15	0.72	20.87	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	21.92	0.72	22.64	<=30	Pass
			50	21.98	0.72	22.70	<=30	Pass
			99	21.93	0.72	22.65	<=30	Pass
		50	0	20.91	0.72	21.63	<=30	Pass
			25	21.08	0.72	21.80	<=30	Pass
			50	20.99	0.72	21.71	<=30	Pass
		100	0	21.09	0.72	21.81	<=30	Pass
			0	22.02	0.72	22.74	<=30	Pass
			50	21.99	0.72	22.71	<=30	Pass
	1732.5	1	99	22.06	0.72	22.78	<=30	Pass
			0	21.01	0.72	21.73	<=30	Pass
			25	21.00	0.72	21.72	<=30	Pass
		50	50	21.00	0.72	21.72	<=30	Pass
			0	21.00	0.72	21.72	<=30	Pass
			50	21.00	0.72	21.72	<=30	Pass
		100	0	21.00	0.72	21.72	<=30	Pass
			0	22.28	0.72	23.00	<=30	Pass
			50	22.34	0.72	23.06	<=30	Pass
	1745	1	99	22.31	0.72	23.03	<=30	Pass
			0	20.94	0.72	21.66	<=30	Pass
			25	21.09	0.72	21.81	<=30	Pass
		50	50	21.22	0.72	21.94	<=30	Pass
			0	21.17	0.72	21.89	<=30	Pass
			0	21.48	0.72	22.20	<=30	Pass
		100	50	21.65	0.72	22.37	<=30	Pass
			99	21.59	0.72	22.31	<=30	Pass
			0	20.08	0.72	20.80	<=30	Pass
16QAM	1720	50	25	20.45	0.72	21.17	<=30	Pass
			50	20.17	0.72	20.89	<=30	Pass
			0	20.46	0.72	21.18	<=30	Pass
		1	0	22.33	0.72	23.05	<=30	Pass
			50	22.33	0.72	23.05	<=30	Pass
			99	22.19	0.72	22.91	<=30	Pass
	1732.5	50	0	20.11	0.72	20.83	<=30	Pass
			25	20.40	0.72	21.12	<=30	Pass
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Page 5 of 196

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		100	50	20.05	0.72	20.77	<=30	Pass
			0	20.53	0.72	21.25	<=30	Pass
	1745	1	0	21.45	0.72	22.17	<=30	Pass
			50	21.47	0.72	22.19	<=30	Pass
			99	21.45	0.72	22.17	<=30	Pass
	50		0	20.18	0.72	20.90	<=30	Pass
			25	20.31	0.72	21.03	<=30	Pass
			50	20.27	0.72	20.99	<=30	Pass
	100		0	20.27	0.72	20.99	<=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	14.148	0.0083	-2.5 to 2.5	Pass
					3.85	-25.878	-0.0151	-2.5 to 2.5	Pass
					4.43	-22.902	-0.0134	-2.5 to 2.5	Pass
				-30	3.85	-14.892	-0.0087	-2.5 to 2.5	Pass
				-20	3.85	-26.393	-0.0154	-2.5 to 2.5	Pass
				-10	3.85	-18.110	-0.0106	-2.5 to 2.5	Pass
				0	3.85	-12.231	-0.0071	-2.5 to 2.5	Pass
				10	3.85	6.151	0.0036	-2.5 to 2.5	Pass
				30	3.85	-16.050	-0.0094	-2.5 to 2.5	Pass
				40	3.85	-20.328	-0.0119	-2.5 to 2.5	Pass
				50	3.85	-20.542	-0.0120	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	27.323	0.0158	-2.5 to 2.5	Pass
					3.85	6.366	0.0037	-2.5 to 2.5	Pass
					4.43	-34.018	-0.0196	-2.5 to 2.5	Pass
				-30	3.85	-11.759	-0.0068	-2.5 to 2.5	Pass
				-20	3.85	-28.996	-0.0167	-2.5 to 2.5	Pass
				-10	3.85	-37.594	-0.0217	-2.5 to 2.5	Pass
				0	3.85	-8.812	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-23.246	-0.0134	-2.5 to 2.5	Pass
				30	3.85	-32.630	-0.0188	-2.5 to 2.5	Pass
				40	3.85	-1.559	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-17.495	-0.0101	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	21.586	0.0123	-2.5 to 2.5	Pass
					3.85	26.393	0.0150	-2.5 to 2.5	Pass
					4.43	27.080	0.0154	-2.5 to 2.5	Pass
				-30	3.85	15.492	0.0088	-2.5 to 2.5	Pass
				-20	3.85	33.131	0.0189	-2.5 to 2.5	Pass
				-10	3.85	10.772	0.0061	-2.5 to 2.5	Pass
				0	3.85	19.083	0.0109	-2.5 to 2.5	Pass
				10	3.85	16.222	0.0092	-2.5 to 2.5	Pass
				30	3.85	-6.394	-0.0036	-2.5 to 2.5	Pass
				40	3.85	8.798	0.0050	-2.5 to 2.5	Pass
				50	3.85	22.688	0.0129	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-14.019	-0.0082	-2.5 to 2.5	Pass
					3.85	0.973	0.0006	-2.5 to 2.5	Pass
					4.43	4.148	0.0024	-2.5 to 2.5	Pass

				-30	3.85	1.888	0.0011	-2.5 to 2.5	Pass
				-20	3.85	-5.136	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	1.945	0.0011	-2.5 to 2.5	Pass
				0	3.85	3.347	0.0020	-2.5 to 2.5	Pass
				10	3.85	3.204	0.0019	-2.5 to 2.5	Pass
				30	3.85	12.202	0.0071	-2.5 to 2.5	Pass
				40	3.85	10.600	0.0062	-2.5 to 2.5	Pass
				50	3.85	19.298	0.0113	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-28.796	-0.0166	-2.5 to 2.5	Pass
					3.85	-33.832	-0.0195	-2.5 to 2.5	Pass
					4.43	-20.070	-0.0116	-2.5 to 2.5	Pass
				-30	3.85	-19.455	-0.0112	-2.5 to 2.5	Pass
				-20	3.85	-14.048	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-10.214	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-14.076	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-7.997	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-12.474	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-20.227	-0.0117	-2.5 to 2.5	Pass
				50	3.85	-28.539	-0.0165	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	23.804	0.0136	-2.5 to 2.5	Pass
					3.85	4.292	0.0024	-2.5 to 2.5	Pass
					4.43	31.099	0.0177	-2.5 to 2.5	Pass
				-30	3.85	27.909	0.0159	-2.5 to 2.5	Pass
				-20	3.85	11.888	0.0068	-2.5 to 2.5	Pass
				-10	3.85	40.812	0.0233	-2.5 to 2.5	Pass
				0	3.85	3.877	0.0022	-2.5 to 2.5	Pass
				10	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				30	3.85	21.615	0.0123	-2.5 to 2.5	Pass
				40	3.85	30.956	0.0176	-2.5 to 2.5	Pass
				50	3.85	27.580	0.0157	-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	0.143	0.0001	-2.5 to 2.5	Pass
					3.85	-29.254	-0.0171	-2.5 to 2.5	Pass
					4.43	-33.689	-0.0197	-2.5 to 2.5	Pass
				-30	3.85	-12.860	-0.0075	-2.5 to 2.5	Pass
				-20	3.85	-10.943	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-26.193	-0.0153	-2.5 to 2.5	Pass
				0	3.85	-8.054	-0.0047	-2.5 to 2.5	Pass
				10	3.85	-20.156	-0.0118	-2.5 to 2.5	Pass
				30	3.85	3.490	0.0020	-2.5 to 2.5	Pass
				40	3.85	6.552	0.0038	-2.5 to 2.5	Pass
				50	3.85	-18.311	-0.0107	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	21.973	0.0127	-2.5 to 2.5	Pass
					3.85	18.525	0.0107	-2.5 to 2.5	Pass
					4.43	-6.709	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-12.460	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-23.475	-0.0135	-2.5 to 2.5	Pass
				-10	3.85	4.892	0.0028	-2.5 to 2.5	Pass
				0	3.85	3.705	0.0021	-2.5 to 2.5	Pass
				10	3.85	-4.220	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-12.646	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-11.430	-0.0066	-2.5 to 2.5	Pass
				50	3.85	-22.273	-0.0129	-2.5 to 2.5	Pass

	1753.5	15	0	20	3.27	0.787	0.0004	-2.5 to 2.5	Pass
					3.85	3.920	0.0022	-2.5 to 2.5	Pass
					4.43	5.865	0.0033	-2.5 to 2.5	Pass
				-30	3.85	28.524	0.0163	-2.5 to 2.5	Pass
				-20	3.85	22.302	0.0127	-2.5 to 2.5	Pass
				-10	3.85	14.563	0.0083	-2.5 to 2.5	Pass
				0	3.85	31.271	0.0178	-2.5 to 2.5	Pass
				10	3.85	-1.817	-0.0010	-2.5 to 2.5	Pass
				30	3.85	3.147	0.0018	-2.5 to 2.5	Pass
				40	3.85	16.193	0.0092	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-10.357	-0.0061	-2.5 to 2.5	Pass
					3.85	-13.776	-0.0080	-2.5 to 2.5	Pass
					4.43	-26.093	-0.0152	-2.5 to 2.5	Pass
				-30	3.85	-28.925	-0.0169	-2.5 to 2.5	Pass
				-20	3.85	-8.168	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	9.427	0.0055	-2.5 to 2.5	Pass
				0	3.85	3.762	0.0022	-2.5 to 2.5	Pass
				10	3.85	36.006	0.0210	-2.5 to 2.5	Pass
				30	3.85	37.780	0.0221	-2.5 to 2.5	Pass
				40	3.85	-4.334	-0.0025	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-15.736	-0.0091	-2.5 to 2.5	Pass
					3.85	-2.160	-0.0012	-2.5 to 2.5	Pass
					4.43	23.260	0.0134	-2.5 to 2.5	Pass
				-30	3.85	30.341	0.0175	-2.5 to 2.5	Pass
				-20	3.85	38.195	0.0220	-2.5 to 2.5	Pass
				-10	3.85	19.012	0.0110	-2.5 to 2.5	Pass
				0	3.85	31.486	0.0182	-2.5 to 2.5	Pass
				10	3.85	41.842	0.0242	-2.5 to 2.5	Pass
				30	3.85	7.839	0.0045	-2.5 to 2.5	Pass
				40	3.85	12.174	0.0070	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	20.270	0.0116	-2.5 to 2.5	Pass
					3.85	5.679	0.0032	-2.5 to 2.5	Pass
					4.43	7.482	0.0043	-2.5 to 2.5	Pass
				-30	3.85	35.405	0.0202	-2.5 to 2.5	Pass
				-20	3.85	8.626	0.0049	-2.5 to 2.5	Pass
				-10	3.85	34.189	0.0195	-2.5 to 2.5	Pass
				0	3.85	39.811	0.0227	-2.5 to 2.5	Pass
				10	3.85	10.729	0.0061	-2.5 to 2.5	Pass
				30	3.85	12.231	0.0070	-2.5 to 2.5	Pass
				40	3.85	22.559	0.0129	-2.5 to 2.5	Pass
				50	3.85	42.415	0.0242	-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	-17.881	-0.0104	-2.5 to 2.5	Pass
					3.85	-15.907	-0.0093	-2.5 to 2.5	Pass
					4.43	-27.795	-0.0162	-2.5 to 2.5	Pass
				-30	3.85	-18.053	-0.0105	-2.5 to 2.5	Pass
				-20	3.85	-28.410	-0.0166	-2.5 to 2.5	Pass
				-10	3.85	-22.874	-0.0134	-2.5 to 2.5	Pass
				0	3.85	-18.282	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-4.449	-0.0026	-2.5 to 2.5	Pass

16QAM	1732.5	25	0	30	3.85	-19.655	-0.0115	-2.5 to 2.5	Pass
				40	3.85	-35.934	-0.0210	-2.5 to 2.5	Pass
				50	3.85	-32.945	-0.0192	-2.5 to 2.5	Pass
				20	3.27	13.962	0.0081	-2.5 to 2.5	Pass
					3.85	-9.813	-0.0057	-2.5 to 2.5	Pass
					4.43	-26.336	-0.0152	-2.5 to 2.5	Pass
				-30	3.85	-18.697	-0.0108	-2.5 to 2.5	Pass
				-20	3.85	-31.614	-0.0182	-2.5 to 2.5	Pass
				-10	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				0	3.85	3.047	0.0018	-2.5 to 2.5	Pass
				10	3.85	3.576	0.0021	-2.5 to 2.5	Pass
				30	3.85	-6.766	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-23.589	-0.0136	-2.5 to 2.5	Pass
				50	3.85	39.639	0.0229	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	20.542	0.0117	-2.5 to 2.5	Pass
					3.85	33.603	0.0192	-2.5 to 2.5	Pass
					4.43	28.653	0.0163	-2.5 to 2.5	Pass
				-30	3.85	11.888	0.0068	-2.5 to 2.5	Pass
				-20	3.85	13.719	0.0078	-2.5 to 2.5	Pass
				-10	3.85	21.114	0.0120	-2.5 to 2.5	Pass
				0	3.85	0.315	0.0002	-2.5 to 2.5	Pass
				10	3.85	19.655	0.0112	-2.5 to 2.5	Pass
				30	3.85	22.559	0.0129	-2.5 to 2.5	Pass
				40	3.85	-11.044	-0.0063	-2.5 to 2.5	Pass
				50	3.85	-1.616	-0.0009	-2.5 to 2.5	Pass
	1712.5	25	0	20	3.27	-18.511	-0.0108	-2.5 to 2.5	Pass
					3.85	-8.569	-0.0050	-2.5 to 2.5	Pass
					4.43	-33.259	-0.0194	-2.5 to 2.5	Pass
				-30	3.85	-33.660	-0.0197	-2.5 to 2.5	Pass
				-20	3.85	-24.948	-0.0146	-2.5 to 2.5	Pass
				-10	3.85	0.687	0.0004	-2.5 to 2.5	Pass
				0	3.85	-36.049	-0.0211	-2.5 to 2.5	Pass
				10	3.85	-27.137	-0.0158	-2.5 to 2.5	Pass
				30	3.85	-11.745	-0.0069	-2.5 to 2.5	Pass
				40	3.85	-15.178	-0.0089	-2.5 to 2.5	Pass
				50	3.85	-18.253	-0.0107	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-0.172	-0.0001	-2.5 to 2.5	Pass
					3.85	28.896	0.0167	-2.5 to 2.5	Pass
					4.43	12.259	0.0071	-2.5 to 2.5	Pass
				-30	3.85	25.849	0.0149	-2.5 to 2.5	Pass
				-20	3.85	29.368	0.0170	-2.5 to 2.5	Pass
				-10	3.85	17.352	0.0100	-2.5 to 2.5	Pass
				0	3.85	24.476	0.0141	-2.5 to 2.5	Pass
				10	3.85	35.534	0.0205	-2.5 to 2.5	Pass
				30	3.85	-7.896	-0.0046	-2.5 to 2.5	Pass
				40	3.85	4.191	0.0024	-2.5 to 2.5	Pass
				50	3.85	9.298	0.0054	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	3.748	0.0021	-2.5 to 2.5	Pass
					3.85	16.923	0.0097	-2.5 to 2.5	Pass
					4.43	10.085	0.0058	-2.5 to 2.5	Pass
				-30	3.85	23.046	0.0132	-2.5 to 2.5	Pass
				-20	3.85	-5.136	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-12.074	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-5.264	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-12.560	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-1.345	-0.0008	-2.5 to 2.5	Pass
				50	3.85	7.567	0.0043	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.27	28.181	0.0164	-2.5 to 2.5	Pass
					3.85	-7.539	-0.0044	-2.5 to 2.5	Pass
					4.43	-34.690	-0.0202	-2.5 to 2.5	Pass
				-30	3.85	-35.677	-0.0208	-2.5 to 2.5	Pass
				-20	3.85	-18.153	-0.0106	-2.5 to 2.5	Pass
				-10	3.85	-35.176	-0.0205	-2.5 to 2.5	Pass
				0	3.85	-31.343	-0.0183	-2.5 to 2.5	Pass
				10	3.85	-1.330	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-29.411	-0.0171	-2.5 to 2.5	Pass
				40	3.85	-39.954	-0.0233	-2.5 to 2.5	Pass
				50	3.85	-35.334	-0.0206	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	32.458	0.0187	-2.5 to 2.5	Pass
					3.85	-10.228	-0.0059	-2.5 to 2.5	Pass
					4.43	-1.445	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-36.492	-0.0211	-2.5 to 2.5	Pass
				-20	3.85	-34.947	-0.0202	-2.5 to 2.5	Pass
				-10	3.85	-15.364	-0.0089	-2.5 to 2.5	Pass
				0	3.85	-32.058	-0.0185	-2.5 to 2.5	Pass
				10	3.85	-3.033	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-32.659	-0.0189	-2.5 to 2.5	Pass
				40	3.85	-13.876	-0.0080	-2.5 to 2.5	Pass
				50	3.85	-14.405	-0.0083	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	26.808	0.0153	-2.5 to 2.5	Pass
					3.85	4.978	0.0028	-2.5 to 2.5	Pass
					4.43	4.048	0.0023	-2.5 to 2.5	Pass
				-30	3.85	33.360	0.0191	-2.5 to 2.5	Pass
				-20	3.85	29.325	0.0168	-2.5 to 2.5	Pass
				-10	3.85	13.361	0.0076	-2.5 to 2.5	Pass
				0	3.85	27.080	0.0155	-2.5 to 2.5	Pass
				10	3.85	-11.473	-0.0066	-2.5 to 2.5	Pass
				30	3.85	-17.338	-0.0099	-2.5 to 2.5	Pass
				40	3.85	-1.645	-0.0009	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-39.654	-0.0231	-2.5 to 2.5	Pass
					3.85	-27.552	-0.0161	-2.5 to 2.5	Pass
					4.43	-12.631	-0.0074	-2.5 to 2.5	Pass
				-30	3.85	-6.394	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	10.557	0.0062	-2.5 to 2.5	Pass
				-10	3.85	16.279	0.0095	-2.5 to 2.5	Pass
				0	3.85	10.700	0.0062	-2.5 to 2.5	Pass
				10	3.85	21.229	0.0124	-2.5 to 2.5	Pass
				30	3.85	19.798	0.0115	-2.5 to 2.5	Pass
				40	3.85	24.834	0.0145	-2.5 to 2.5	Pass
				50	3.85	31.414	0.0183	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-3.090	-0.0018	-2.5 to 2.5	Pass
					3.85	5.751	0.0033	-2.5 to 2.5	Pass
					4.43	6.194	0.0036	-2.5 to 2.5	Pass
				-30	3.85	32.187	0.0186	-2.5 to 2.5	Pass
				-20	3.85	7.038	0.0041	-2.5 to 2.5	Pass
				-10	3.85	28.381	0.0164	-2.5 to 2.5	Pass
				0	3.85	-13.318	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-1.302	-0.0008	-2.5 to 2.5	Pass
				30	3.85	16.150	0.0093	-2.5 to 2.5	Pass
				40	3.85	24.948	0.0144	-2.5 to 2.5	Pass

	1750	50	0	50	3.85	0.486	0.0003	-2.5 to 2.5	Pass
				20	3.27	-23.761	-0.0136	-2.5 to 2.5	Pass
					3.85	-2.961	-0.0017	-2.5 to 2.5	Pass
					4.43	-5.336	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-14.520	-0.0083	-2.5 to 2.5	Pass
				-20	3.85	-21.400	-0.0122	-2.5 to 2.5	Pass
				-10	3.85	-20.742	-0.0119	-2.5 to 2.5	Pass
				0	3.85	-25.964	-0.0148	-2.5 to 2.5	Pass
				10	3.85	-13.304	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-19.999	-0.0114	-2.5 to 2.5	Pass
				40	3.85	-23.417	-0.0134	-2.5 to 2.5	Pass
				50	3.85	-26.808	-0.0153	-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	-15.779	-0.0092	-2.5 to 2.5	Pass
					3.85	-28.453	-0.0166	-2.5 to 2.5	Pass
					4.43	-16.022	-0.0093	-2.5 to 2.5	Pass
				-30	3.85	-26.922	-0.0157	-2.5 to 2.5	Pass
				-20	3.85	-28.181	-0.0164	-2.5 to 2.5	Pass
				-10	3.85	-11.816	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-10.099	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-19.927	-0.0116	-2.5 to 2.5	Pass
				30	3.85	-23.189	-0.0135	-2.5 to 2.5	Pass
				40	3.85	-17.481	-0.0102	-2.5 to 2.5	Pass
				50	3.85	-11.301	-0.0066	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	5.479	0.0032	-2.5 to 2.5	Pass
					3.85	-36.135	-0.0209	-2.5 to 2.5	Pass
					4.43	-31.285	-0.0181	-2.5 to 2.5	Pass
				-30	3.85	-17.710	-0.0102	-2.5 to 2.5	Pass
				-20	3.85	2.418	0.0014	-2.5 to 2.5	Pass
				-10	3.85	-27.294	-0.0158	-2.5 to 2.5	Pass
				0	3.85	-10.457	-0.0060	-2.5 to 2.5	Pass
				10	3.85	-26.364	-0.0152	-2.5 to 2.5	Pass
				30	3.85	-21.529	-0.0124	-2.5 to 2.5	Pass
				40	3.85	-31.929	-0.0184	-2.5 to 2.5	Pass
				50	3.85	-1.373	-0.0008	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	37.694	0.0216	-2.5 to 2.5	Pass
					3.85	14.033	0.0080	-2.5 to 2.5	Pass
					4.43	13.690	0.0078	-2.5 to 2.5	Pass
				-30	3.85	28.853	0.0165	-2.5 to 2.5	Pass
				-20	3.85	9.470	0.0054	-2.5 to 2.5	Pass
				-10	3.85	12.560	0.0072	-2.5 to 2.5	Pass
				0	3.85	24.562	0.0141	-2.5 to 2.5	Pass
				10	3.85	13.790	0.0079	-2.5 to 2.5	Pass
				30	3.85	28.682	0.0164	-2.5 to 2.5	Pass
				40	3.85	3.619	0.0021	-2.5 to 2.5	Pass
				50	3.85	13.318	0.0076	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-33.216	-0.0193	-2.5 to 2.5	Pass
					3.85	-1.359	-0.0008	-2.5 to 2.5	Pass
					4.43	20.957	0.0122	-2.5 to 2.5	Pass
				-30	3.85	22.731	0.0132	-2.5 to 2.5	Pass
				-20	3.85	32.144	0.0187	-2.5 to 2.5	Pass
				-10	3.85	8.454	0.0049	-2.5 to 2.5	Pass
				0	3.85	3.405	0.0020	-2.5 to 2.5	Pass

				10	3.85	18.840	0.0110	-2.5 to 2.5	Pass
				30	3.85	23.203	0.0135	-2.5 to 2.5	Pass
				40	3.85	27.380	0.0159	-2.5 to 2.5	Pass
				50	3.85	24.076	0.0140	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-2.904	-0.0017	-2.5 to 2.5	Pass
					3.85	1.531	0.0009	-2.5 to 2.5	Pass
					4.43	4.606	0.0027	-2.5 to 2.5	Pass
				-30	3.85	13.003	0.0075	-2.5 to 2.5	Pass
				-20	3.85	10.328	0.0060	-2.5 to 2.5	Pass
				-10	3.85	-12.803	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-9.985	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-4.120	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-9.170	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-12.674	-0.0073	-2.5 to 2.5	Pass
				50	3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	10.700	0.0061	-2.5 to 2.5	Pass
					3.85	28.982	0.0166	-2.5 to 2.5	Pass
					4.43	21.658	0.0124	-2.5 to 2.5	Pass
				-30	3.85	-12.918	-0.0074	-2.5 to 2.5	Pass
				-20	3.85	12.217	0.0070	-2.5 to 2.5	Pass
				-10	3.85	7.882	0.0045	-2.5 to 2.5	Pass
				0	3.85	7.882	0.0045	-2.5 to 2.5	Pass
				10	3.85	12.145	0.0069	-2.5 to 2.5	Pass
				30	3.85	2.561	0.0015	-2.5 to 2.5	Pass
				40	3.85	12.345	0.0071	-2.5 to 2.5	Pass
				50	3.85	4.506	0.0026	-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	-20.442	-0.0119	-2.5 to 2.5	Pass
					3.85	-29.597	-0.0172	-2.5 to 2.5	Pass
					4.43	-27.609	-0.0161	-2.5 to 2.5	Pass
				-30	3.85	-18.053	-0.0105	-2.5 to 2.5	Pass
				-20	3.85	-25.263	-0.0147	-2.5 to 2.5	Pass
				-10	3.85	-15.507	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-1.516	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-26.622	-0.0155	-2.5 to 2.5	Pass
				30	3.85	-13.332	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-36.464	-0.0212	-2.5 to 2.5	Pass
				50	3.85	-26.107	-0.0152	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	10.314	0.0060	-2.5 to 2.5	Pass
					3.85	-8.368	-0.0048	-2.5 to 2.5	Pass
					4.43	-42.143	-0.0243	-2.5 to 2.5	Pass
				-30	3.85	-32.916	-0.0190	-2.5 to 2.5	Pass
				-20	3.85	-12.546	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-14.634	-0.0084	-2.5 to 2.5	Pass
				0	3.85	-24.390	-0.0141	-2.5 to 2.5	Pass
				10	3.85	-37.422	-0.0216	-2.5 to 2.5	Pass
				30	3.85	-21.501	-0.0124	-2.5 to 2.5	Pass
				40	3.85	-18.125	-0.0105	-2.5 to 2.5	Pass
				50	3.85	-18.439	-0.0106	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	30.055	0.0172	-2.5 to 2.5	Pass
					3.85	10.071	0.0058	-2.5 to 2.5	Pass
					4.43	30.627	0.0176	-2.5 to 2.5	Pass
				-30	3.85	29.597	0.0170	-2.5 to 2.5	Pass

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Page 12 of 196

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<http://www.btf-lab.com>

Version: 1/00

				-20	3.85	-4.749	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	5.422	0.0031	-2.5 to 2.5	Pass
				0	3.85	13.332	0.0076	-2.5 to 2.5	Pass
				10	3.85	19.269	0.0110	-2.5 to 2.5	Pass
				30	3.85	18.926	0.0108	-2.5 to 2.5	Pass
				40	3.85	21.386	0.0123	-2.5 to 2.5	Pass
				50	3.85	-5.064	-0.0029	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-39.268	-0.0228	-2.5 to 2.5	Pass
					3.85	-20.671	-0.0120	-2.5 to 2.5	Pass
					4.43	-5.679	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-14.234	-0.0083	-2.5 to 2.5	Pass
				-20	3.85	-29.783	-0.0173	-2.5 to 2.5	Pass
				-10	3.85	-30.484	-0.0177	-2.5 to 2.5	Pass
				0	3.85	-37.637	-0.0219	-2.5 to 2.5	Pass
				10	3.85	-29.926	-0.0174	-2.5 to 2.5	Pass
				30	3.85	-33.960	-0.0197	-2.5 to 2.5	Pass
				40	3.85	1.874	0.0011	-2.5 to 2.5	Pass
	50	3.85	-13.661	-0.0079	-2.5 to 2.5	Pass			
	1732.5	100	0	20	3.27	-25.864	-0.0149	-2.5 to 2.5	Pass
					3.85	-12.674	-0.0073	-2.5 to 2.5	Pass
					4.43	-18.468	-0.0107	-2.5 to 2.5	Pass
				-30	3.85	-21.958	-0.0127	-2.5 to 2.5	Pass
				-20	3.85	-12.045	-0.0070	-2.5 to 2.5	Pass
				-10	3.85	5.050	0.0029	-2.5 to 2.5	Pass
				0	3.85	1.016	0.0006	-2.5 to 2.5	Pass
				10	3.85	-11.630	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-15.893	-0.0092	-2.5 to 2.5	Pass
				40	3.85	-9.542	-0.0055	-2.5 to 2.5	Pass
	50	3.85	-3.862	-0.0022	-2.5 to 2.5	Pass			
	1745	100	0	20	3.27	10.686	0.0061	-2.5 to 2.5	Pass
					3.85	12.159	0.0070	-2.5 to 2.5	Pass
					4.43	29.683	0.0170	-2.5 to 2.5	Pass
				-30	3.85	25.835	0.0148	-2.5 to 2.5	Pass
				-20	3.85	24.261	0.0139	-2.5 to 2.5	Pass
				-10	3.85	28.353	0.0162	-2.5 to 2.5	Pass
				0	3.85	29.526	0.0169	-2.5 to 2.5	Pass
				10	3.85	3.262	0.0019	-2.5 to 2.5	Pass
				30	3.85	8.483	0.0049	-2.5 to 2.5	Pass
				40	3.85	21.243	0.0122	-2.5 to 2.5	Pass
50	3.85	21.501	0.0123	-2.5 to 2.5	Pass				

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

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

3.1.2 B4_3MHz

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

3.1.3 B4_5MHz

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

3.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		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

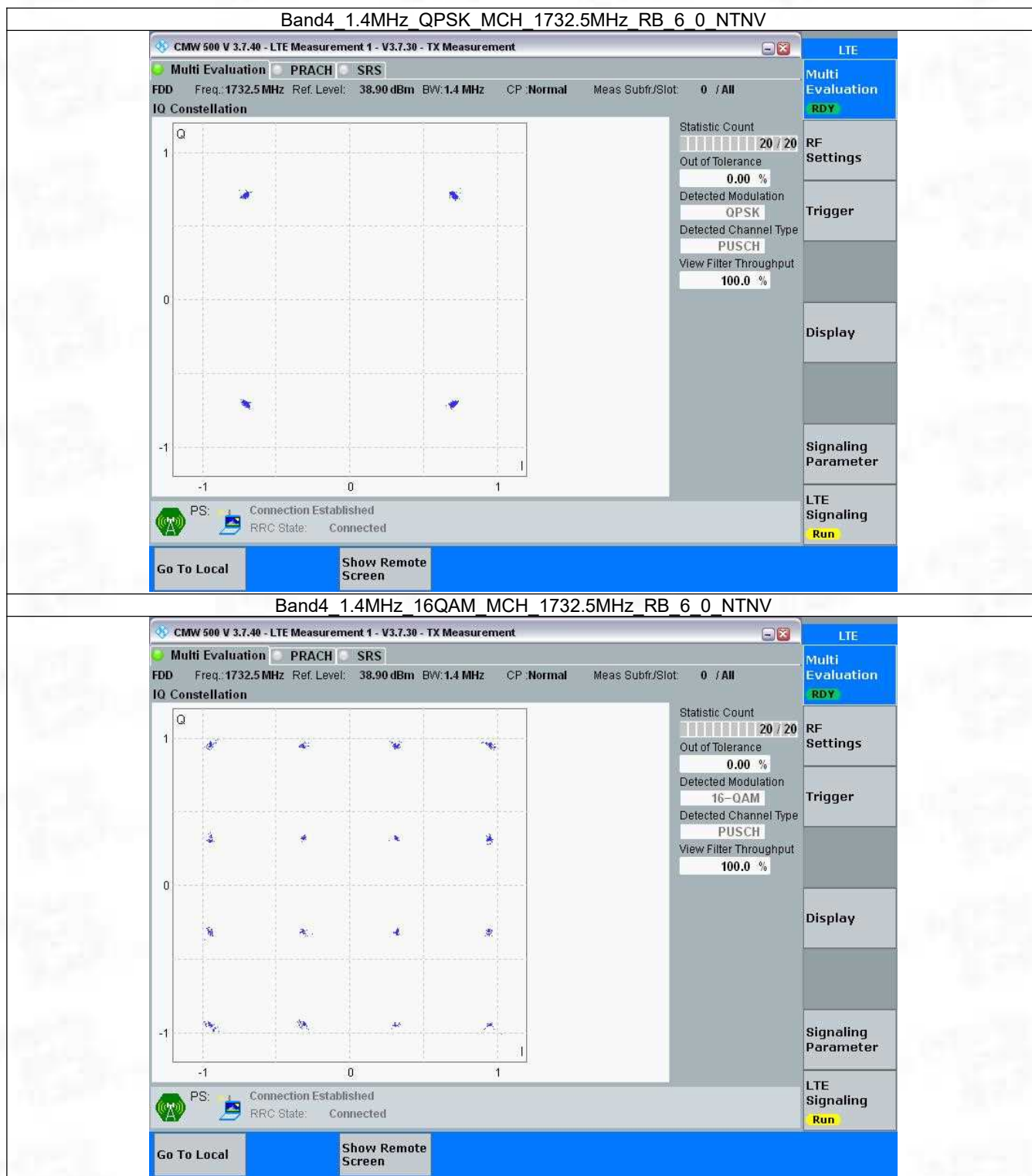
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

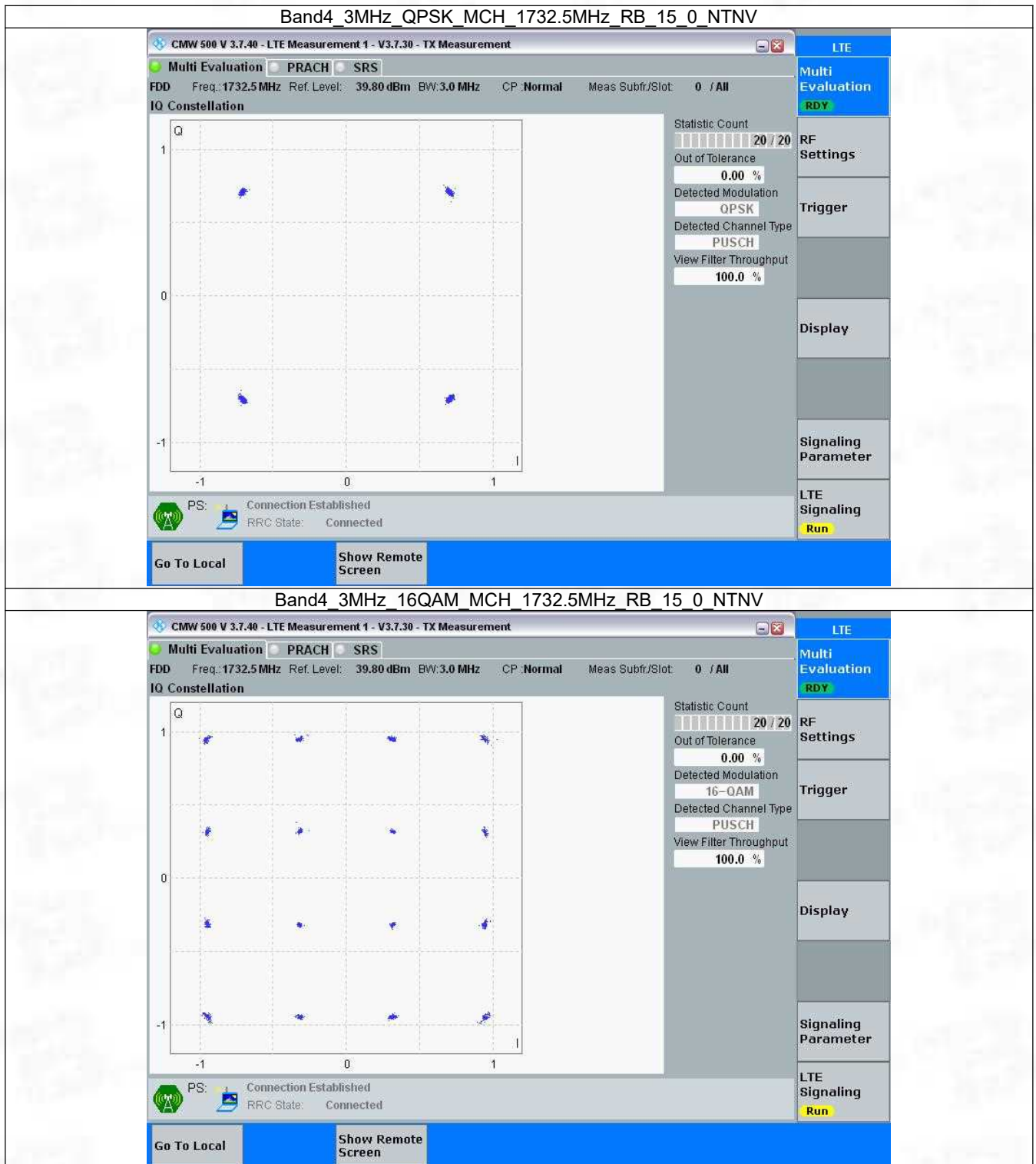
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

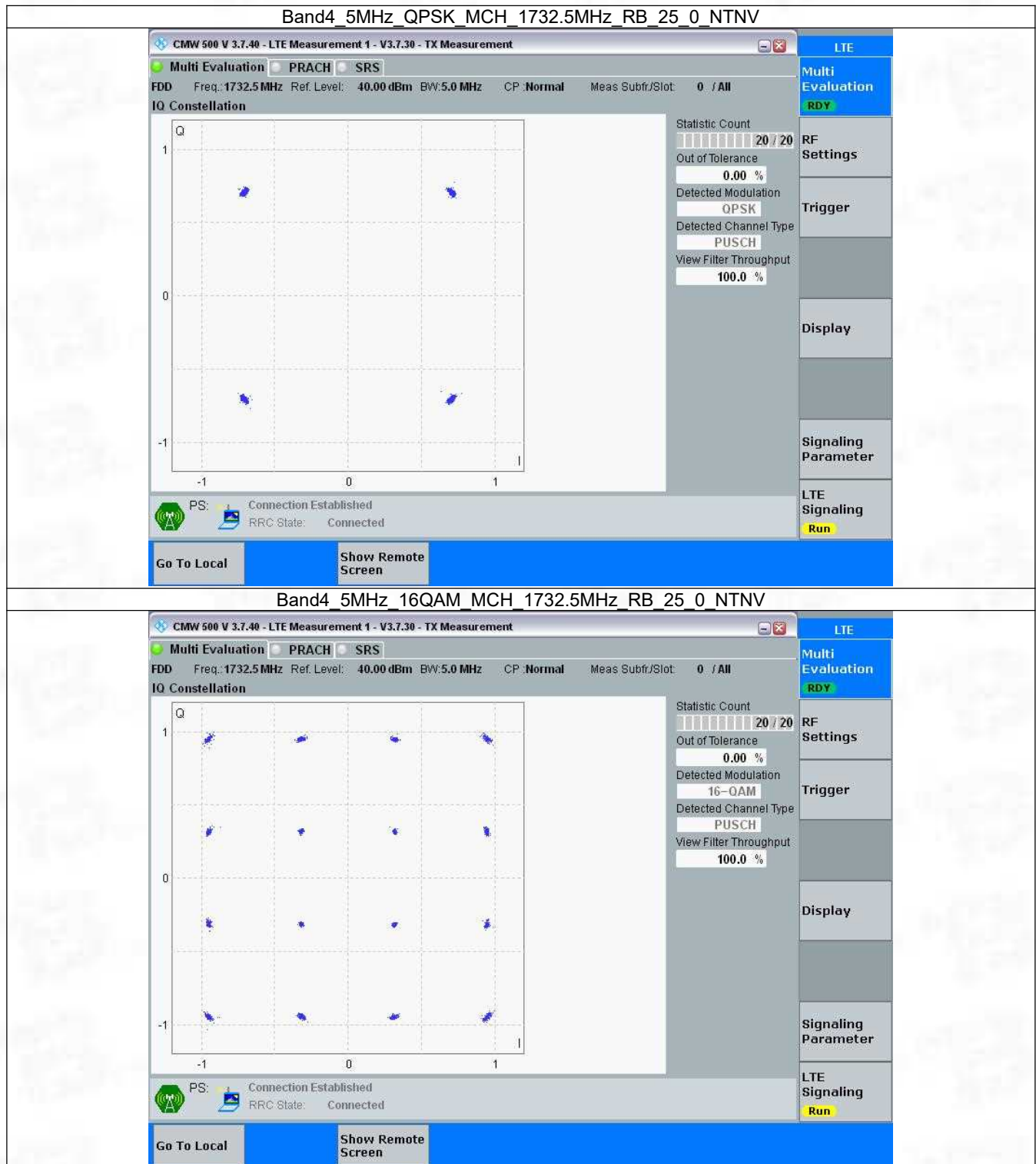
3.2.1 B4_1.4MHz



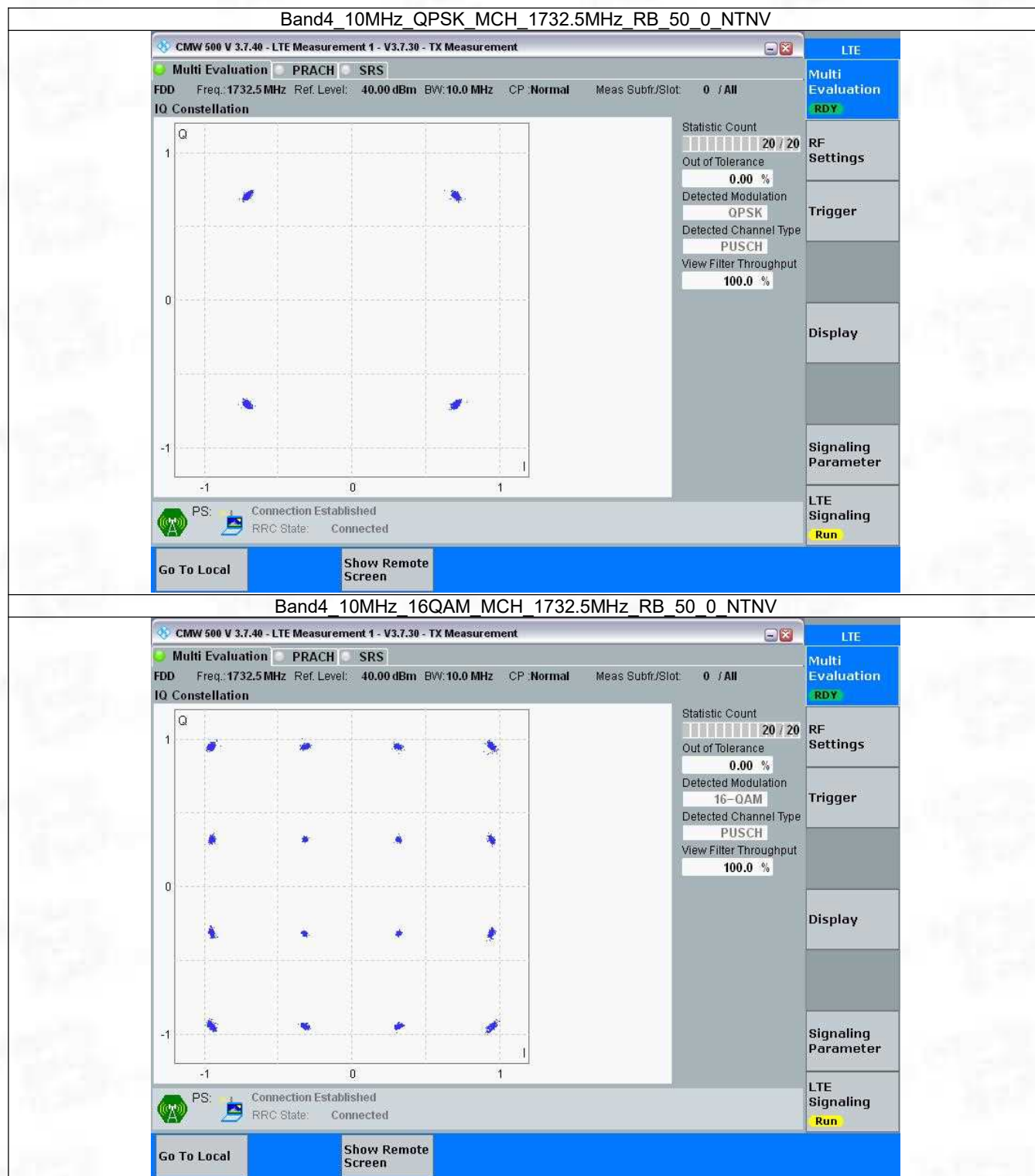
3.2.2 B4_3MHz



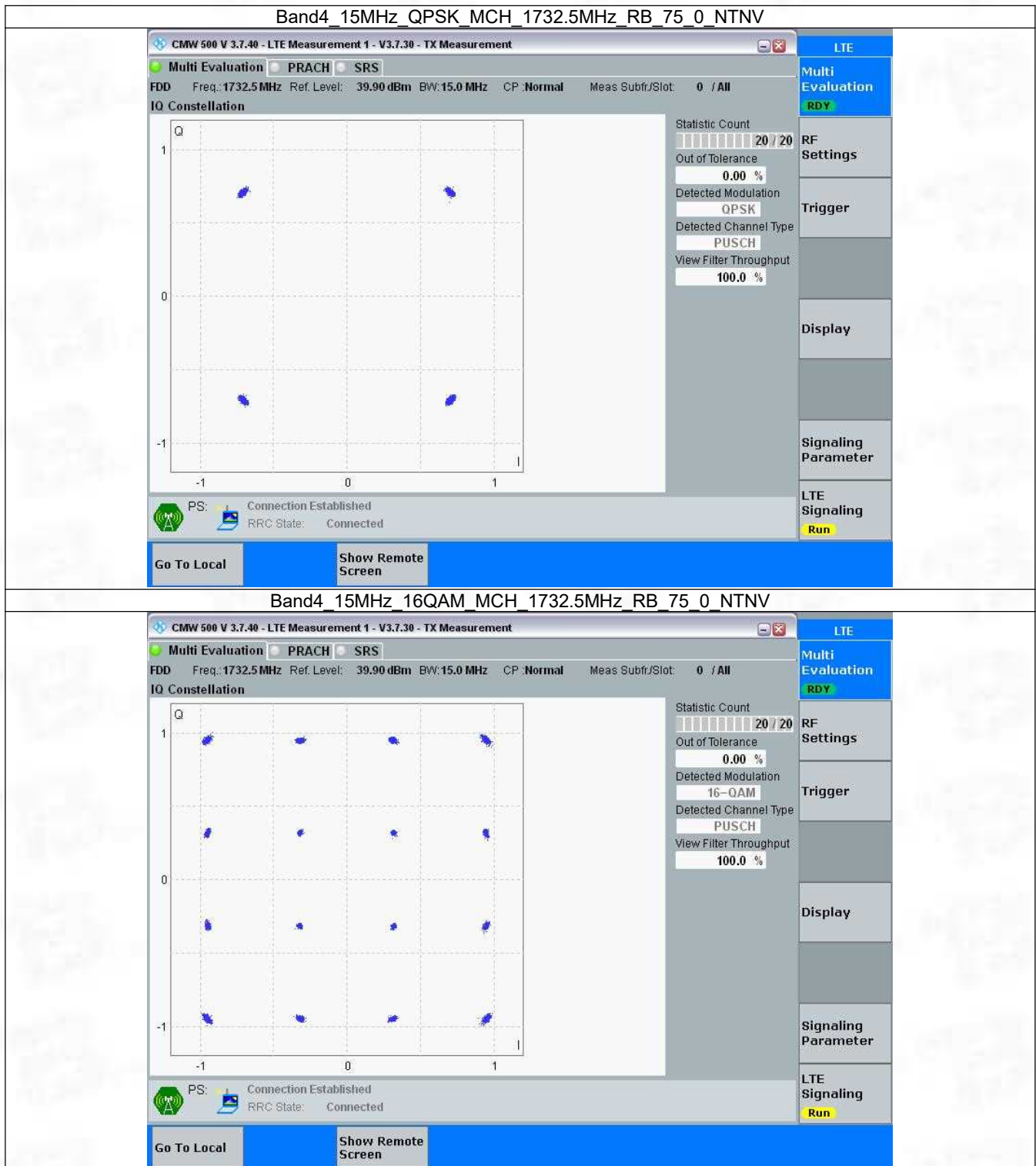
3.2.3 B4_5MHz



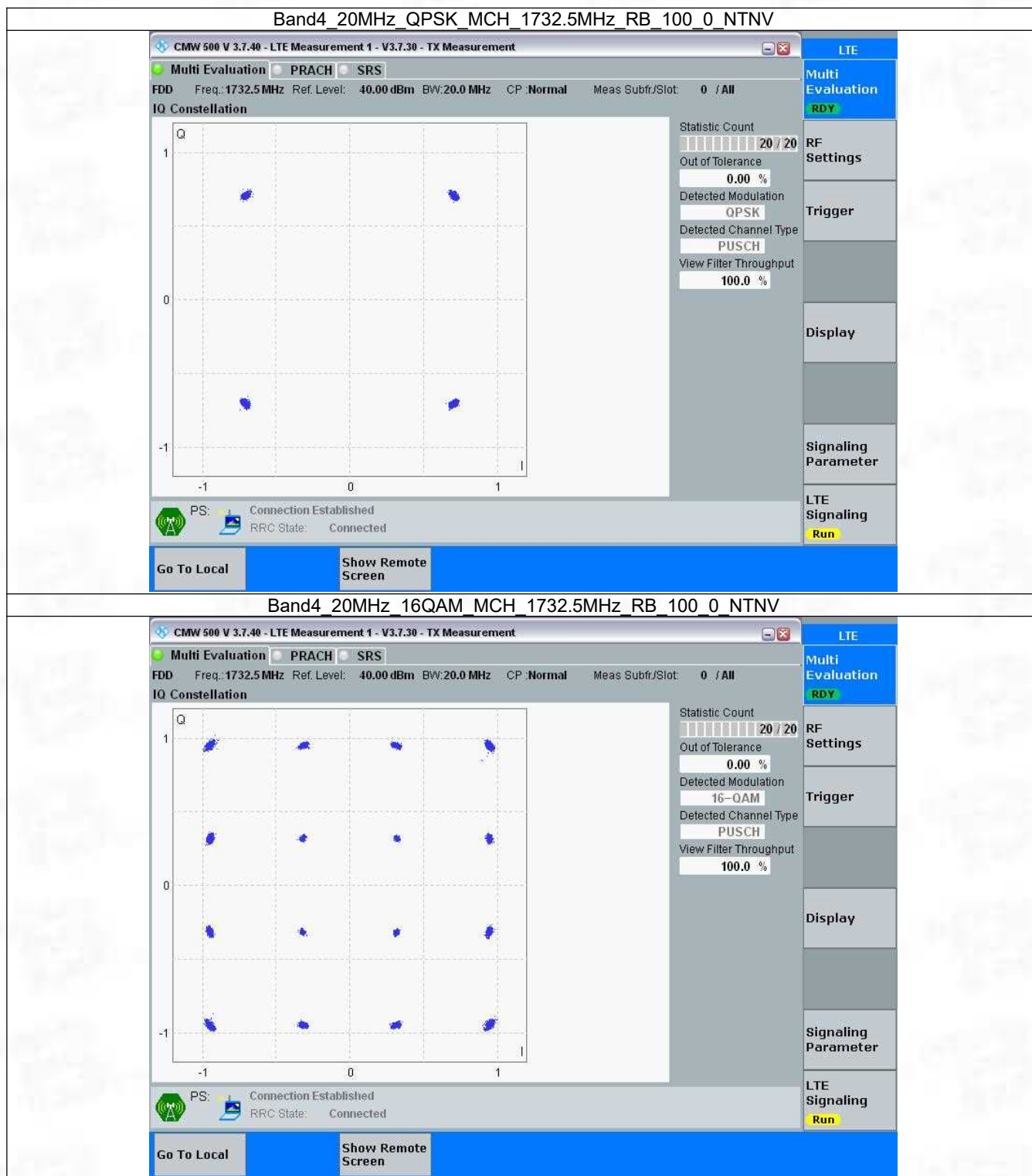
3.2.4 B4_10MHz



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	1.104	/	Pass
		1732.5	6	0	1.114	/	Pass
		1754.3	6	0	1.117	/	Pass
	16QAM	1710.7	6	0	1.102	/	Pass
		1732.5	6	0	1.119	/	Pass
		1754.3	6	0	1.111	/	Pass
3	QPSK	1711.5	15	0	2.753	/	Pass
		1732.5	15	0	2.765	/	Pass
		1753.5	15	0	2.751	/	Pass
	16QAM	1711.5	15	0	2.754	/	Pass
		1732.5	15	0	2.759	/	Pass
		1753.5	15	0	2.740	/	Pass
5	QPSK	1712.5	25	0	4.536	/	Pass
		1732.5	25	0	4.557	/	Pass
		1752.5	25	0	4.561	/	Pass
	16QAM	1712.5	25	0	4.558	/	Pass
		1732.5	25	0	4.566	/	Pass
		1752.5	25	0	4.550	/	Pass
10	QPSK	1715	50	0	9.066	/	Pass
		1732.5	50	0	9.082	/	Pass
		1750	50	0	9.050	/	Pass
	16QAM	1715	50	0	9.054	/	Pass
		1732.5	50	0	9.046	/	Pass
		1750	50	0	9.092	/	Pass
15	QPSK	1717.5	75	0	13.545	/	Pass
		1732.5	75	0	13.587	/	Pass
		1747.5	75	0	13.613	/	Pass
	16QAM	1717.5	75	0	13.577	/	Pass
		1732.5	75	0	13.619	/	Pass
		1747.5	75	0	13.654	/	Pass
20	QPSK	1720	100	0	18.104	/	Pass
		1732.5	100	0	18.180	/	Pass
		1745	100	0	18.095	/	Pass
	16QAM	1720	100	0	18.192	/	Pass
		1732.5	100	0	18.171	/	Pass
		1745	100	0	18.137	/	Pass

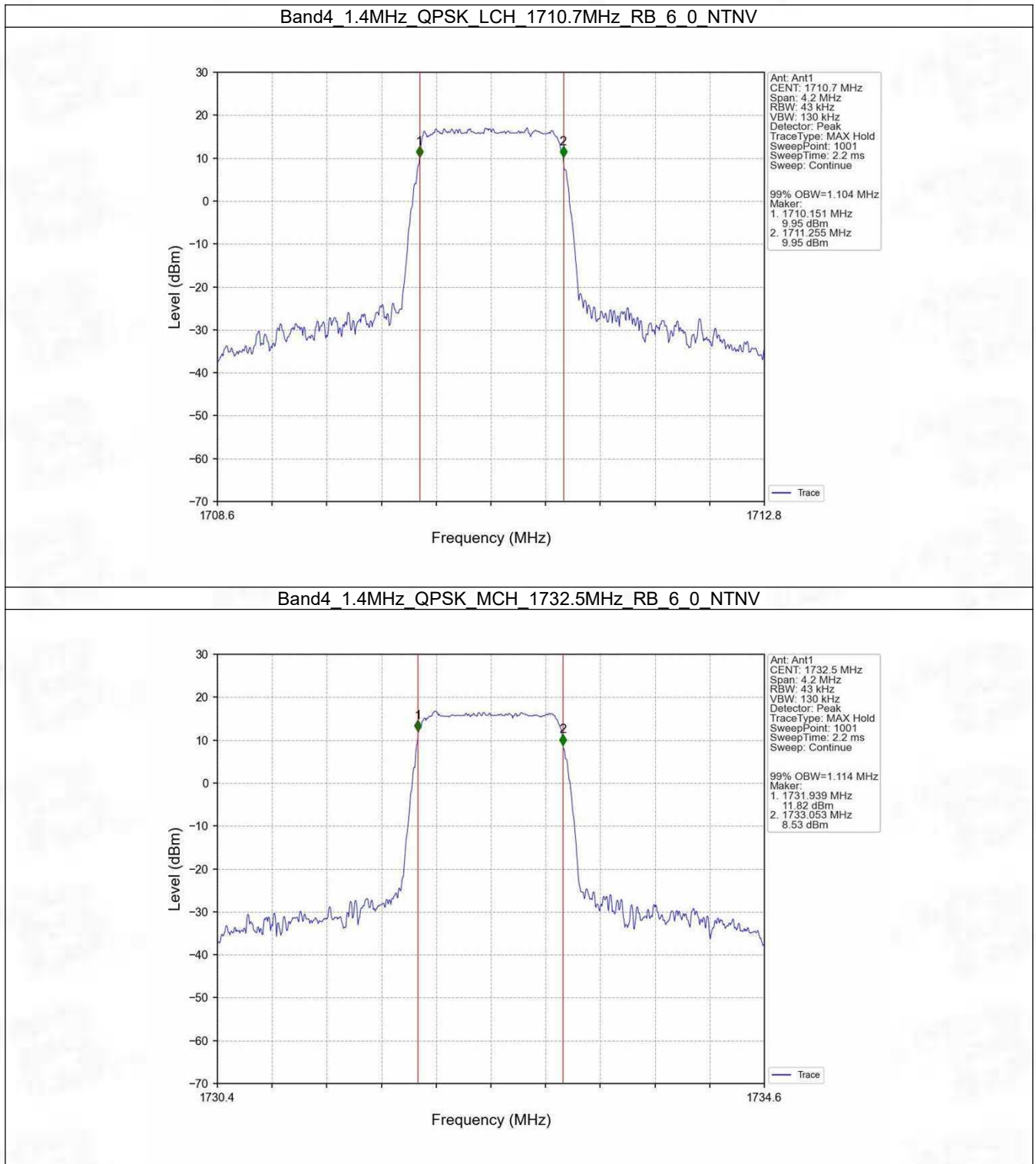
4.1.2 Band4_XDB

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.275	/	Pass
		1732.5	6	0	1.275	/	Pass
		1754.3	6	0	1.271	/	Pass

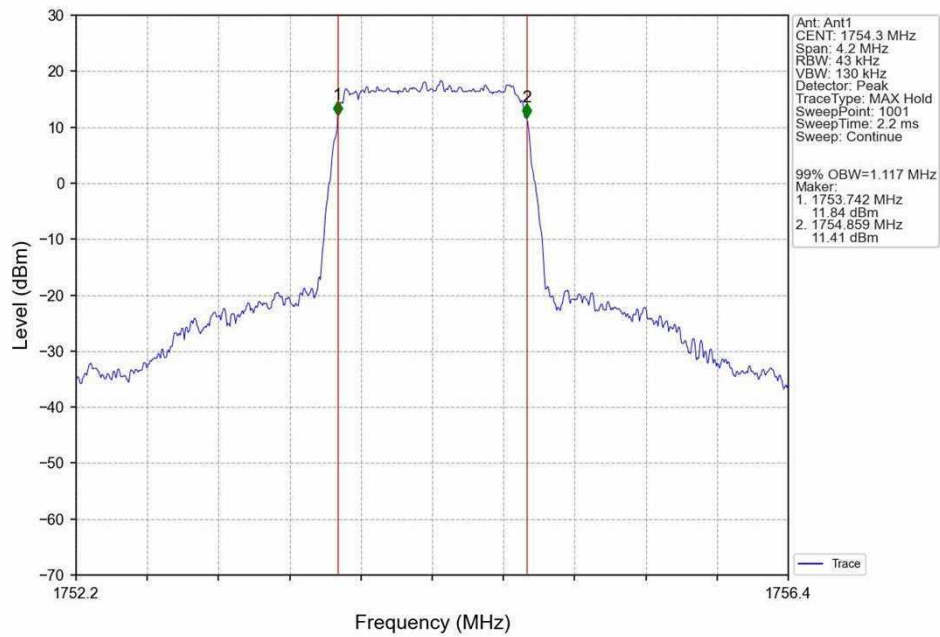
	16QAM	1710.7	6	0	1.268	/	Pass
		1732.5	6	0	1.270	/	Pass
		1754.3	6	0	1.268	/	Pass
3	QPSK	1711.5	15	0	3.083	/	Pass
		1732.5	15	0	3.105	/	Pass
		1753.5	15	0	3.101	/	Pass
	16QAM	1711.5	15	0	3.086	/	Pass
		1732.5	15	0	3.089	/	Pass
		1753.5	15	0	3.075	/	Pass
5	QPSK	1712.5	25	0	5.050	/	Pass
		1732.5	25	0	5.062	/	Pass
		1752.5	25	0	5.032	/	Pass
	16QAM	1712.5	25	0	5.079	/	Pass
		1732.5	25	0	5.052	/	Pass
		1752.5	25	0	5.059	/	Pass
10	QPSK	1715	50	0	10.020	/	Pass
		1732.5	50	0	10.018	/	Pass
		1750	50	0	10.028	/	Pass
	16QAM	1715	50	0	10.085	/	Pass
		1732.5	50	0	10.011	/	Pass
		1750	50	0	10.077	/	Pass
15	QPSK	1717.5	75	0	15.188	/	Pass
		1732.5	75	0	15.120	/	Pass
		1747.5	75	0	15.149	/	Pass
	16QAM	1717.5	75	0	15.160	/	Pass
		1732.5	75	0	15.131	/	Pass
		1747.5	75	0	15.219	/	Pass
20	QPSK	1720	100	0	19.893	/	Pass
		1732.5	100	0	19.993	/	Pass
		1745	100	0	19.911	/	Pass
	16QAM	1720	100	0	19.974	/	Pass
		1732.5	100	0	19.987	/	Pass
		1745	100	0	19.860	/	Pass

4.2 Test Graph

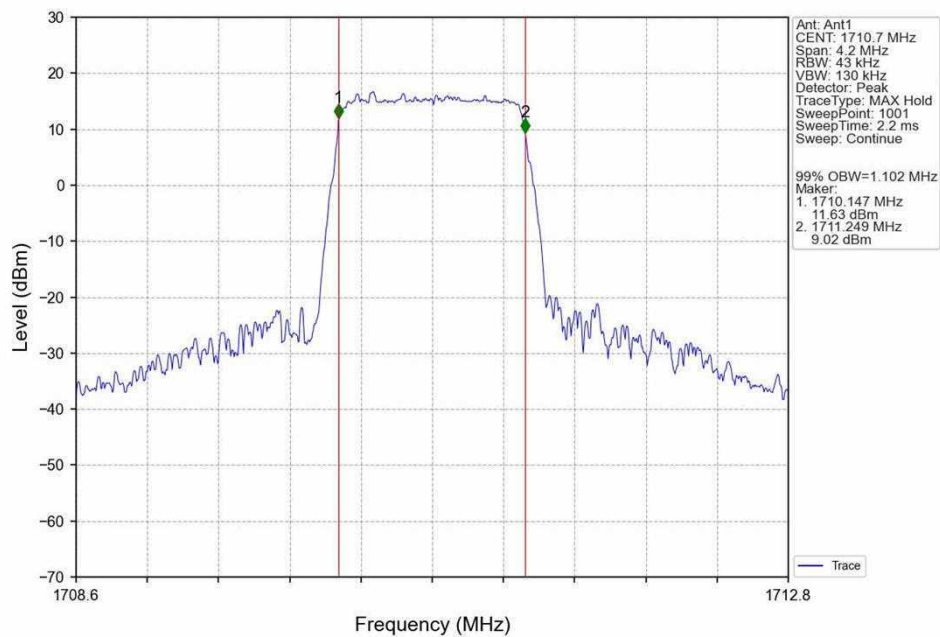
4.2.1 Band4_OBW



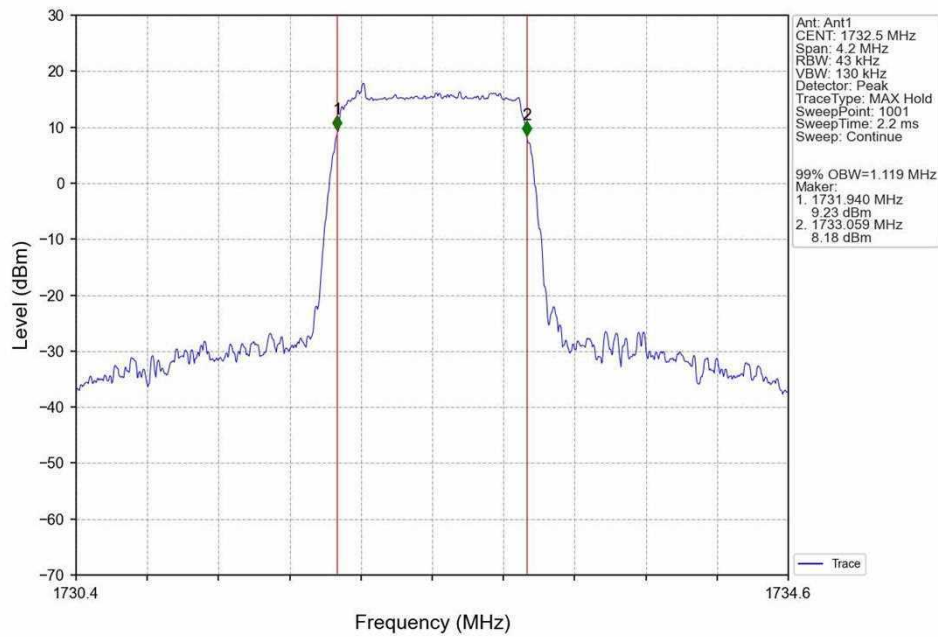
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



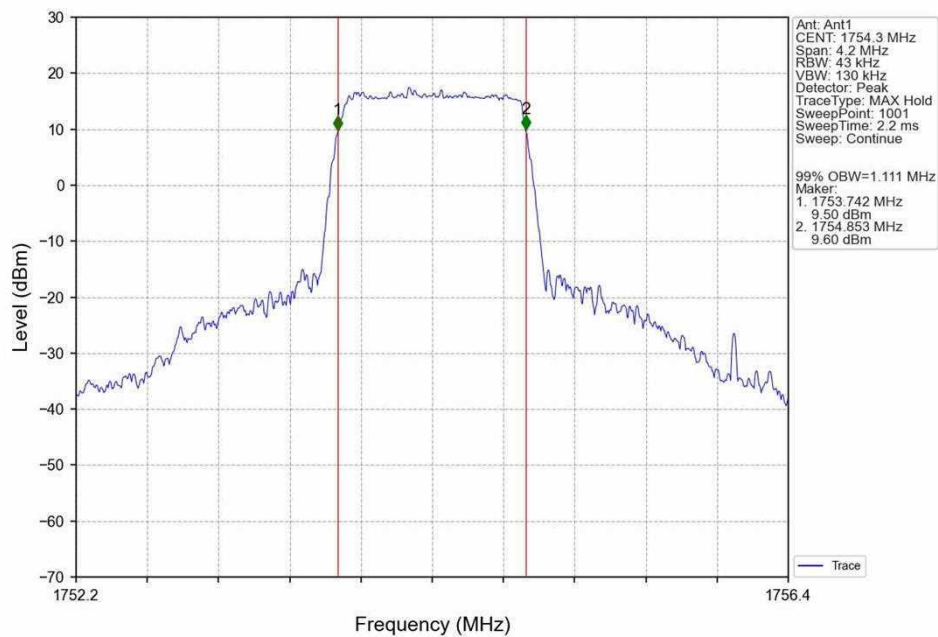
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



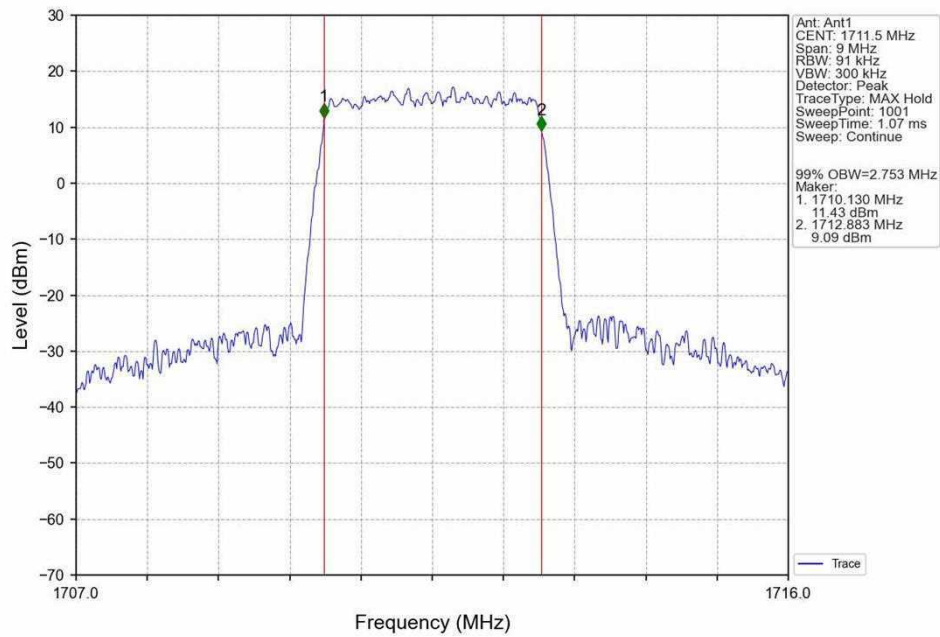
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



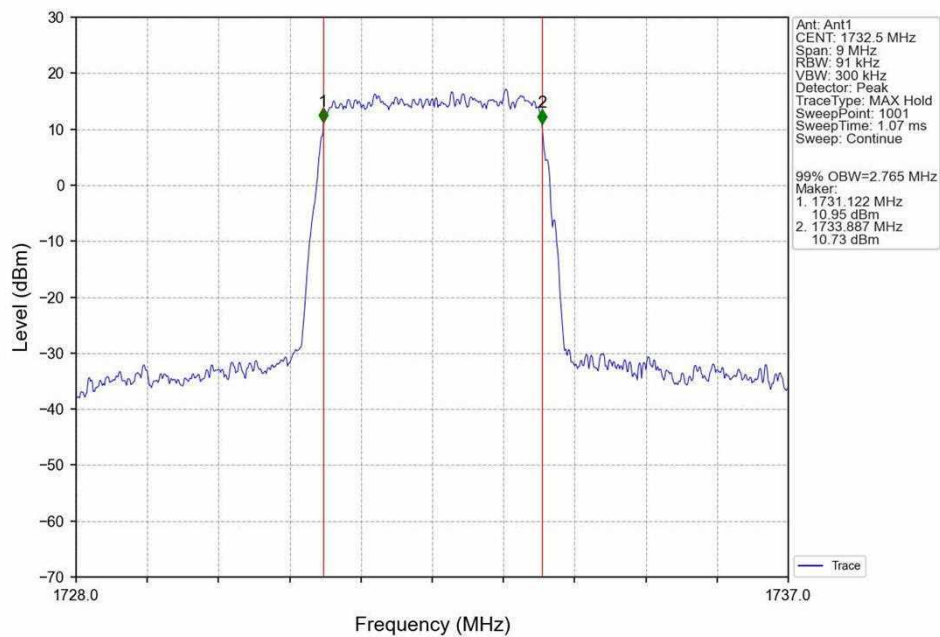
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



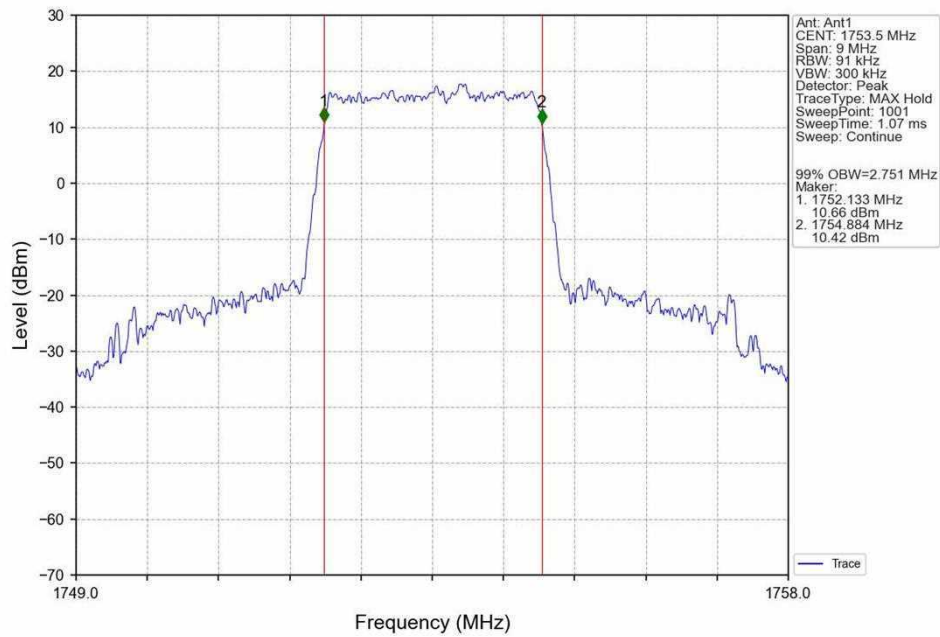
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



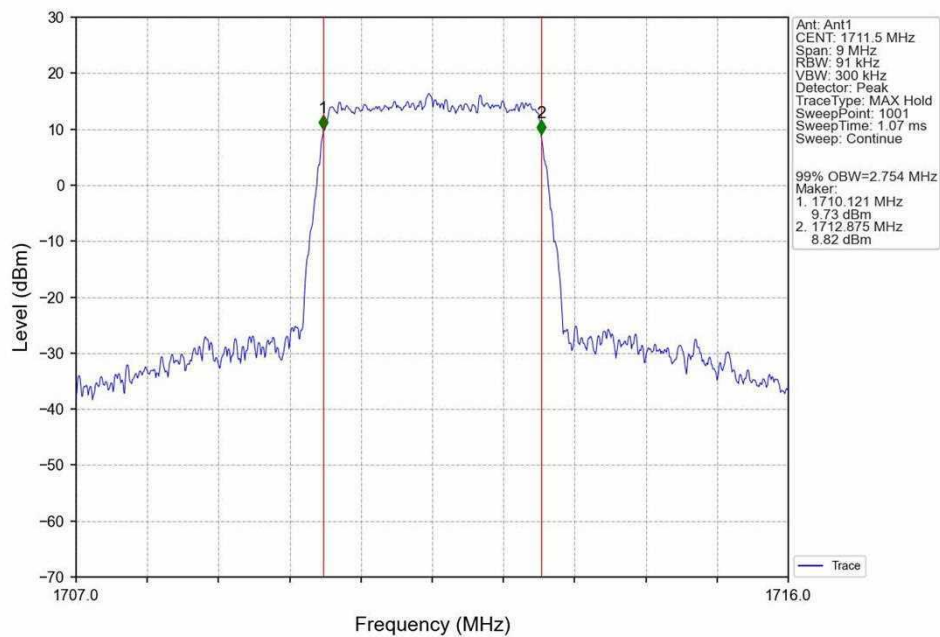
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



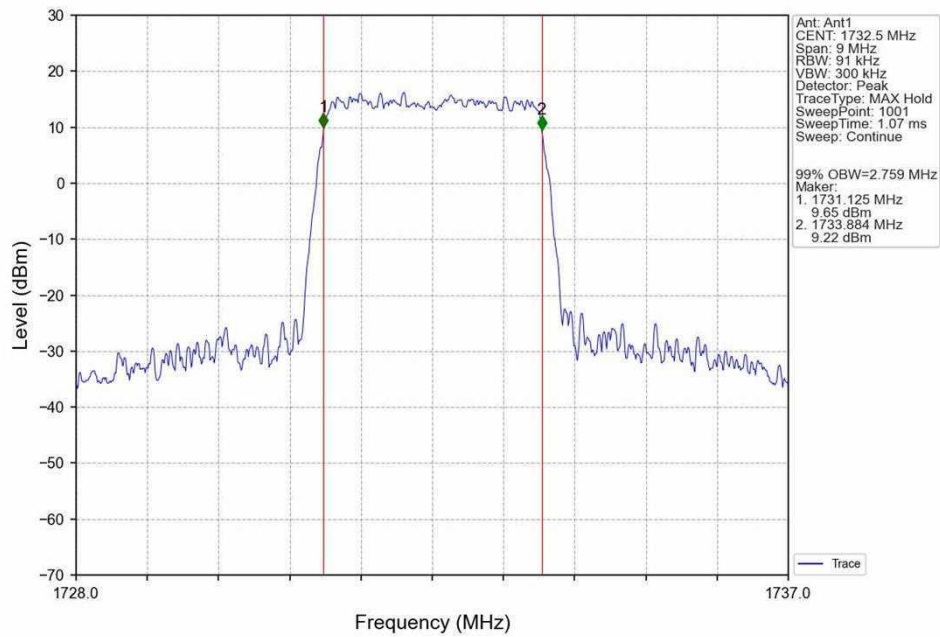
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



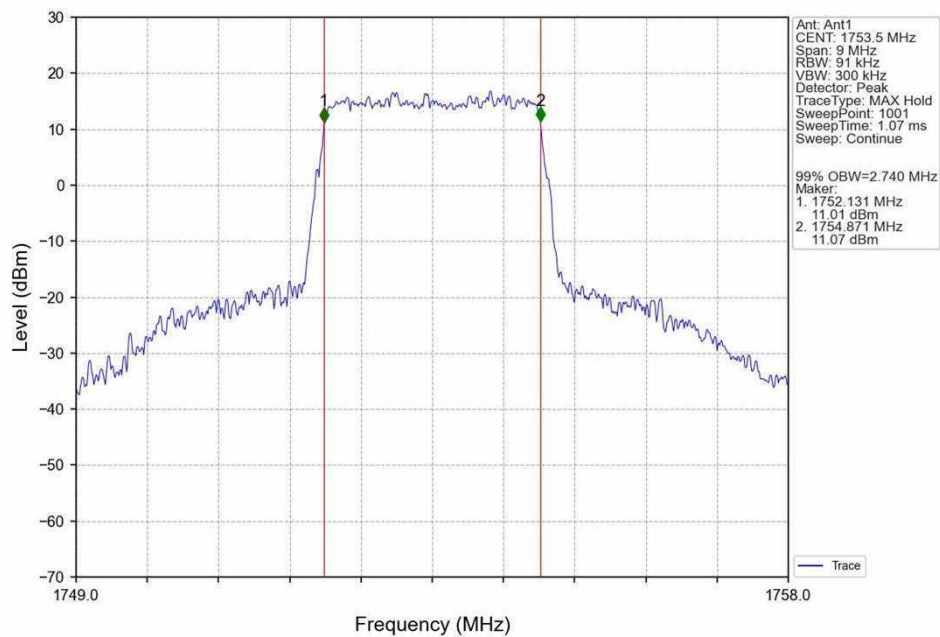
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



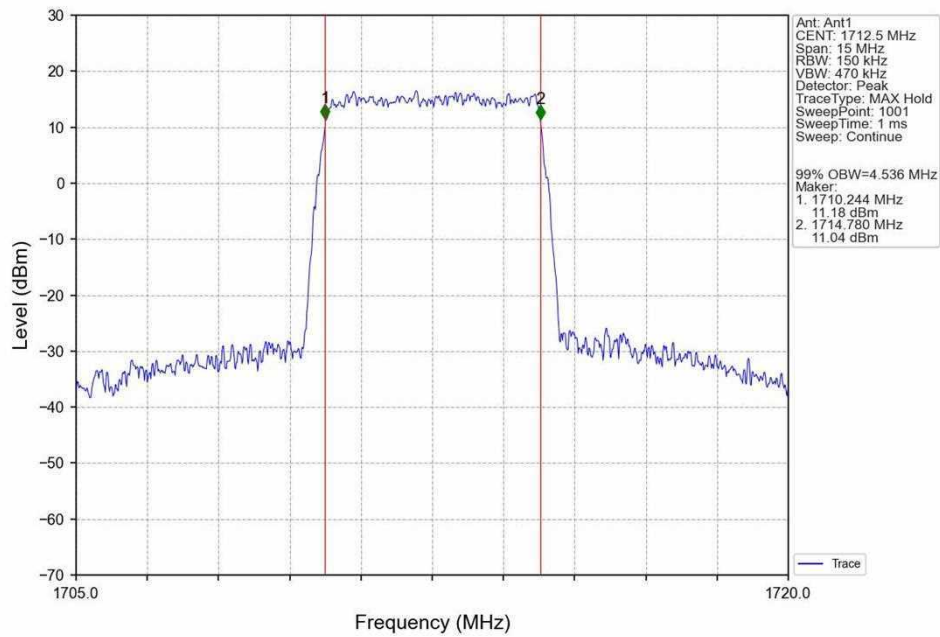
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



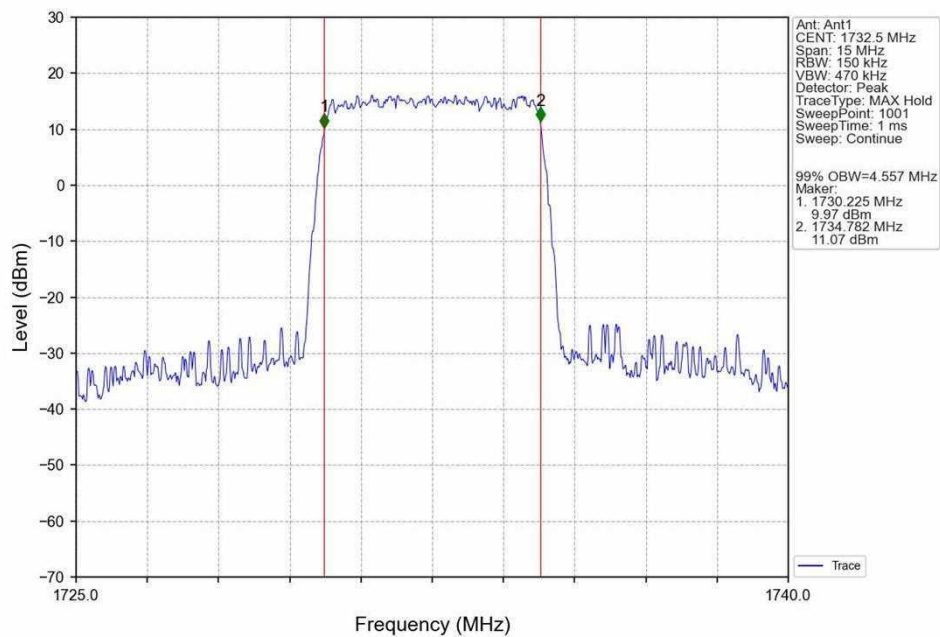
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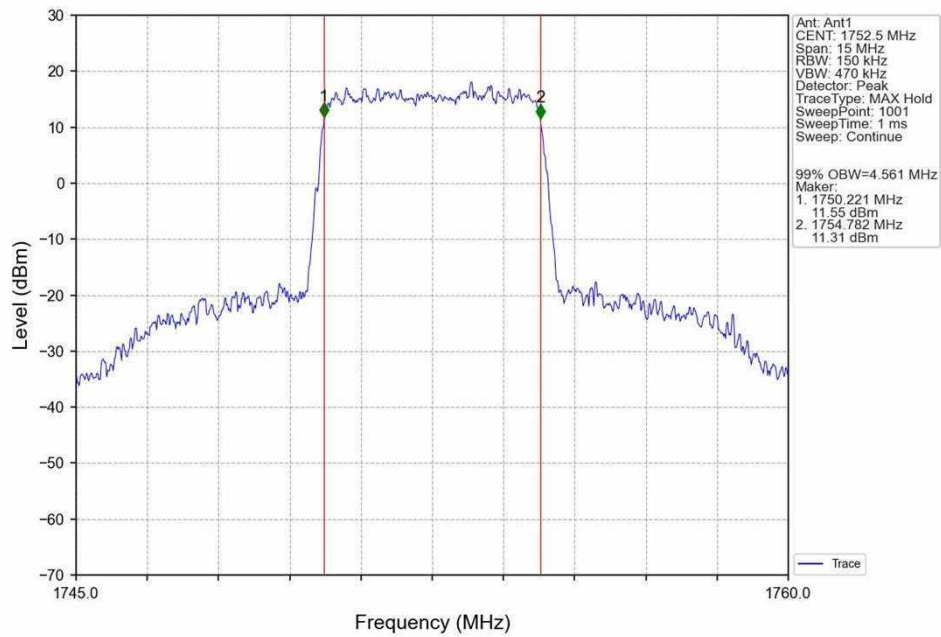
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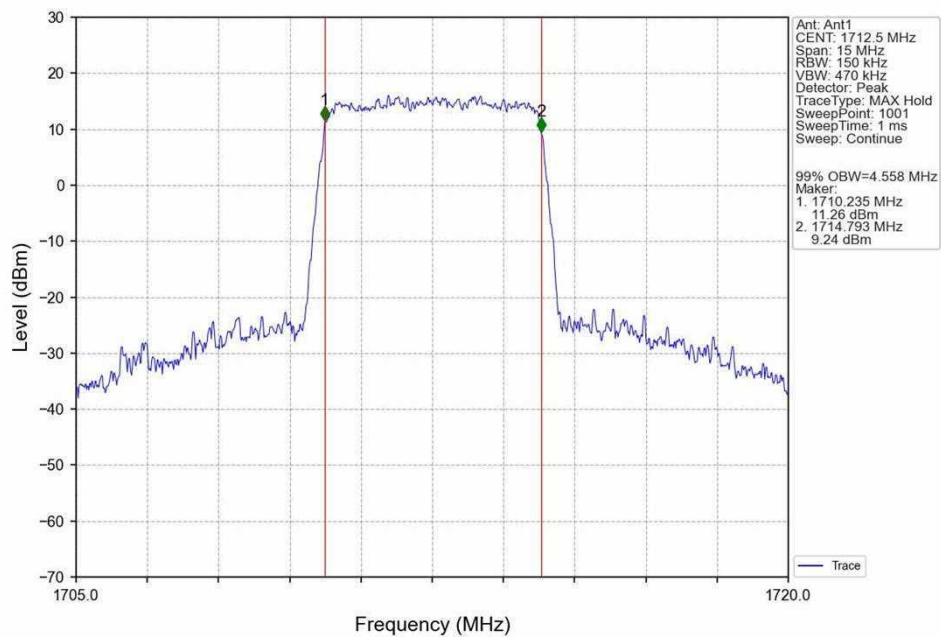
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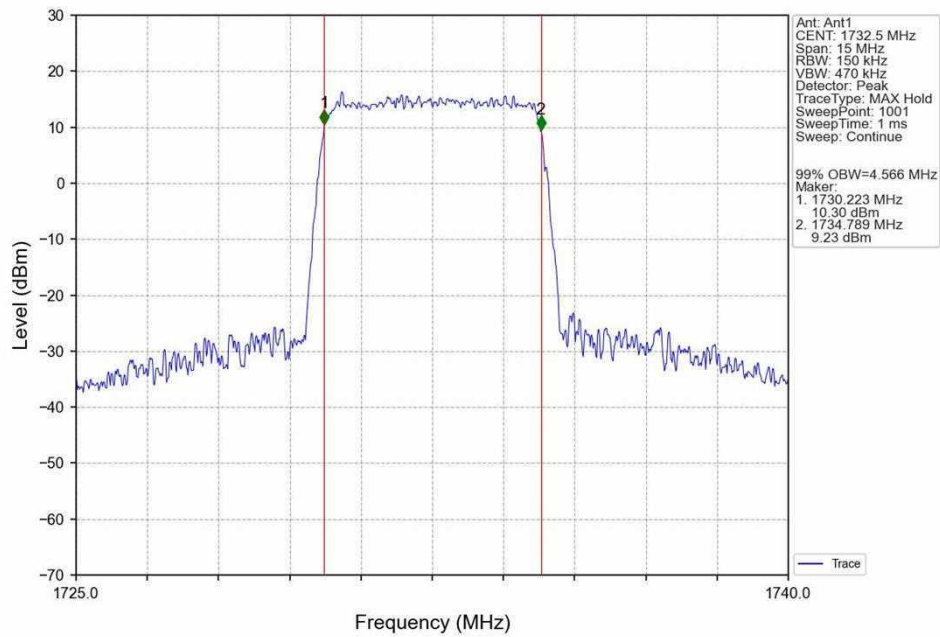
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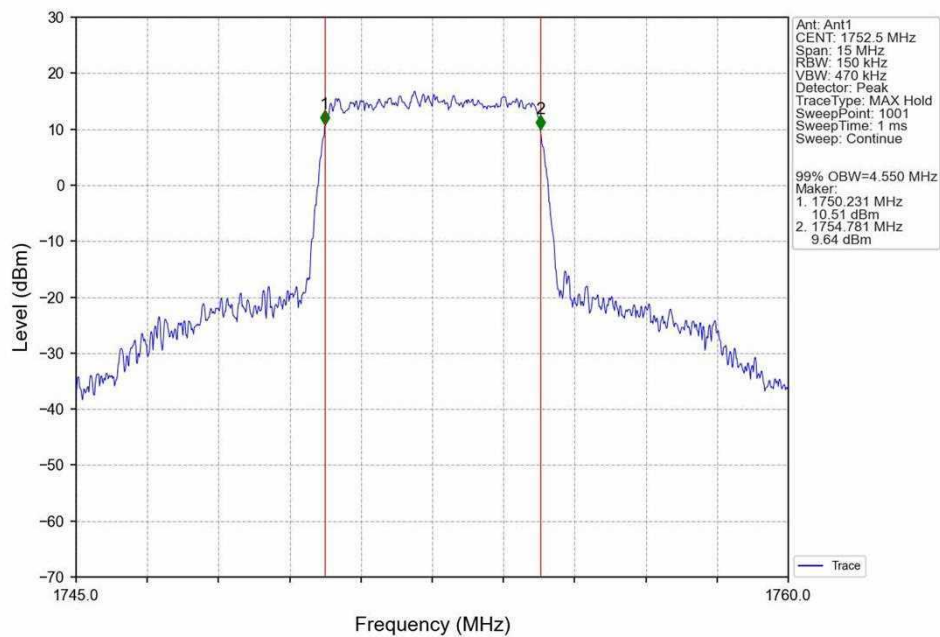
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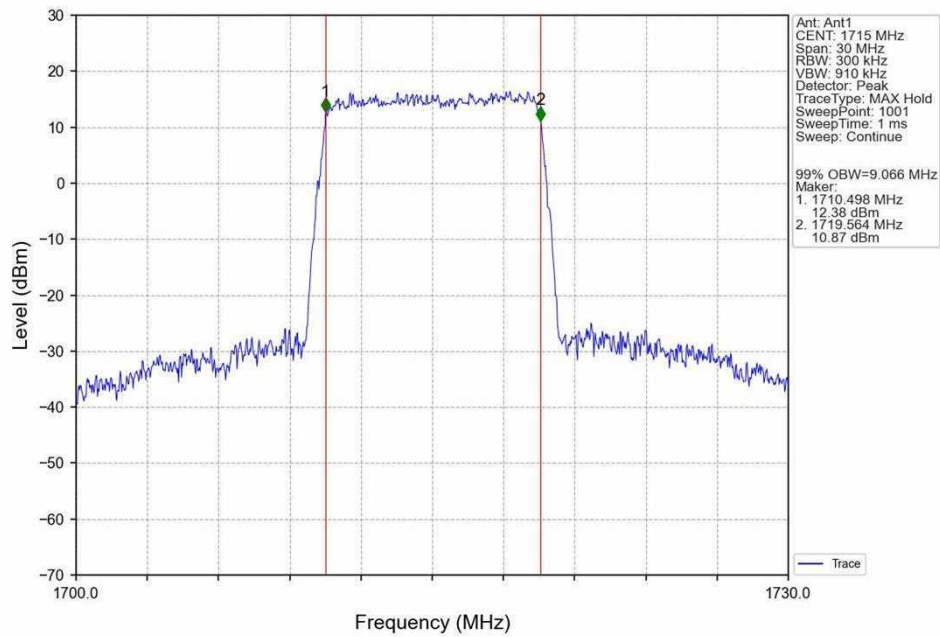
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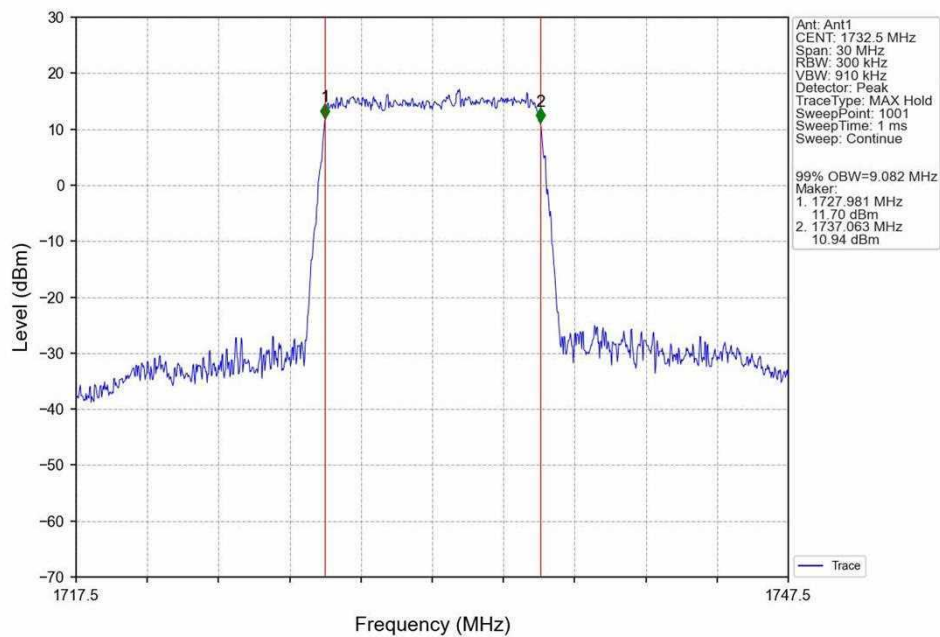
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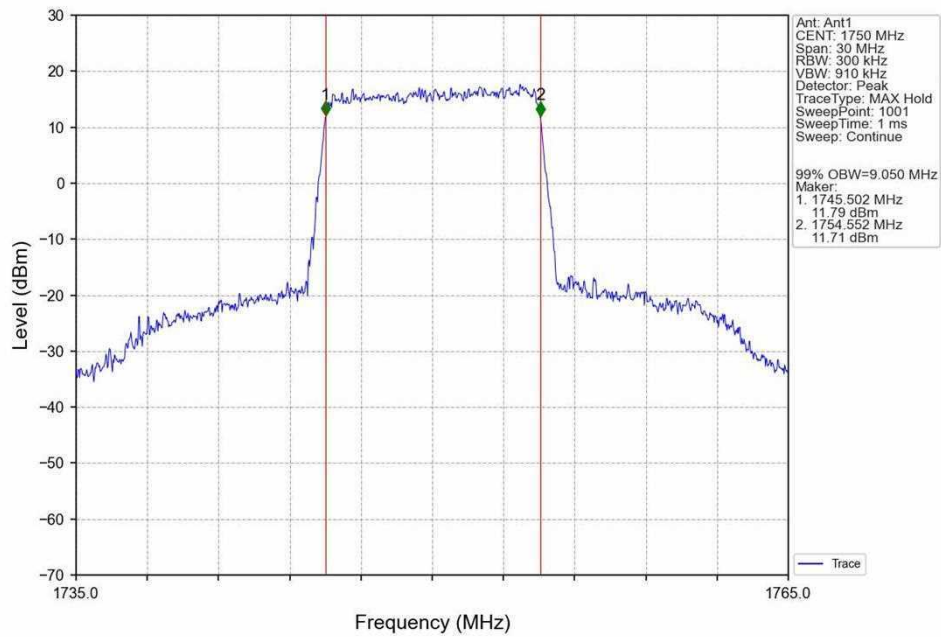
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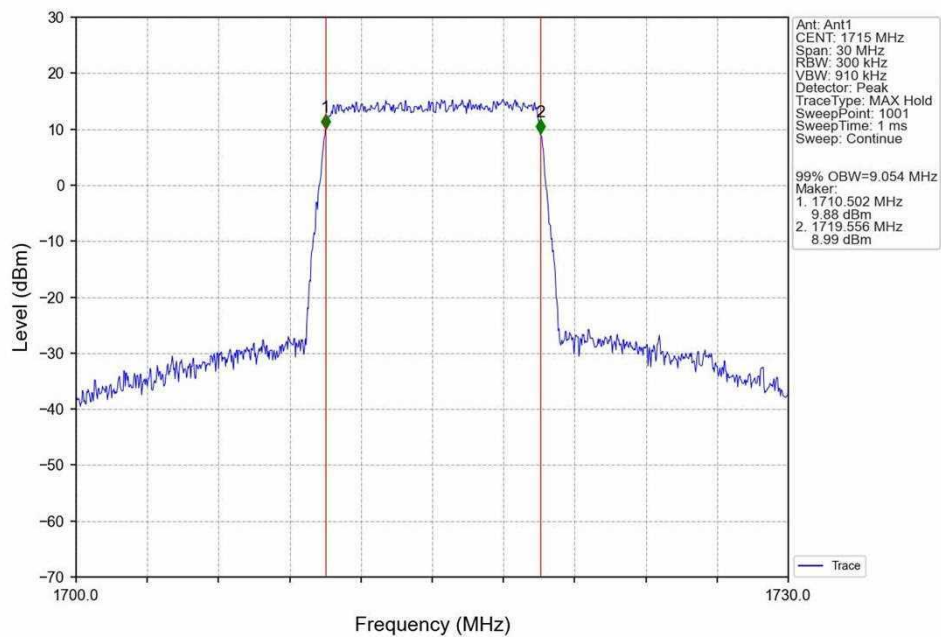
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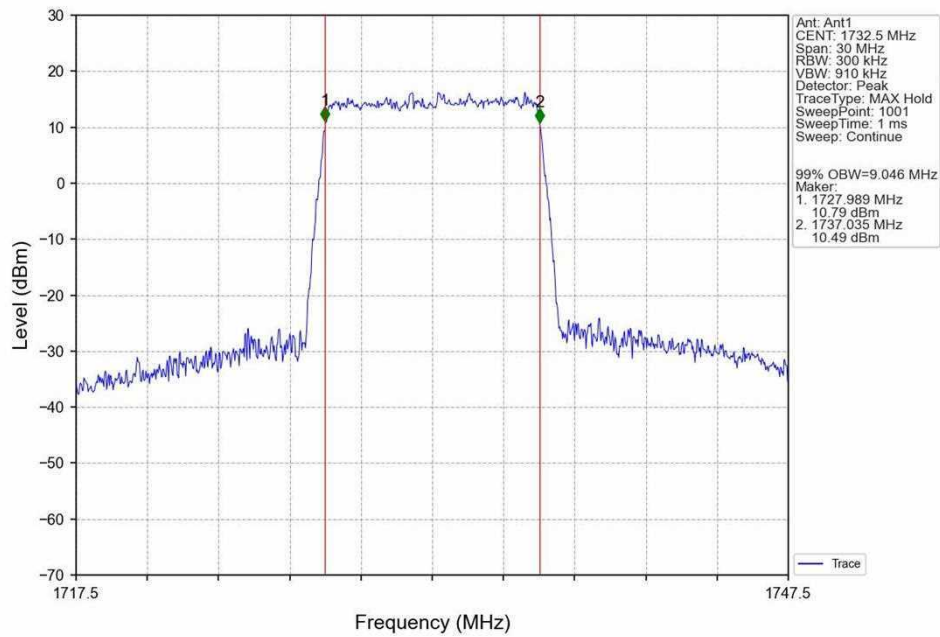
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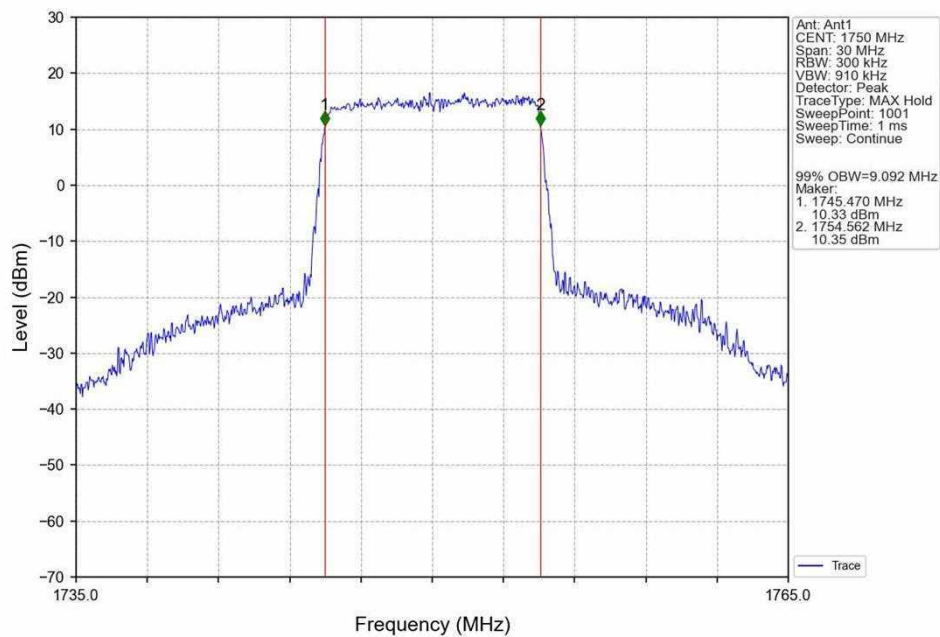
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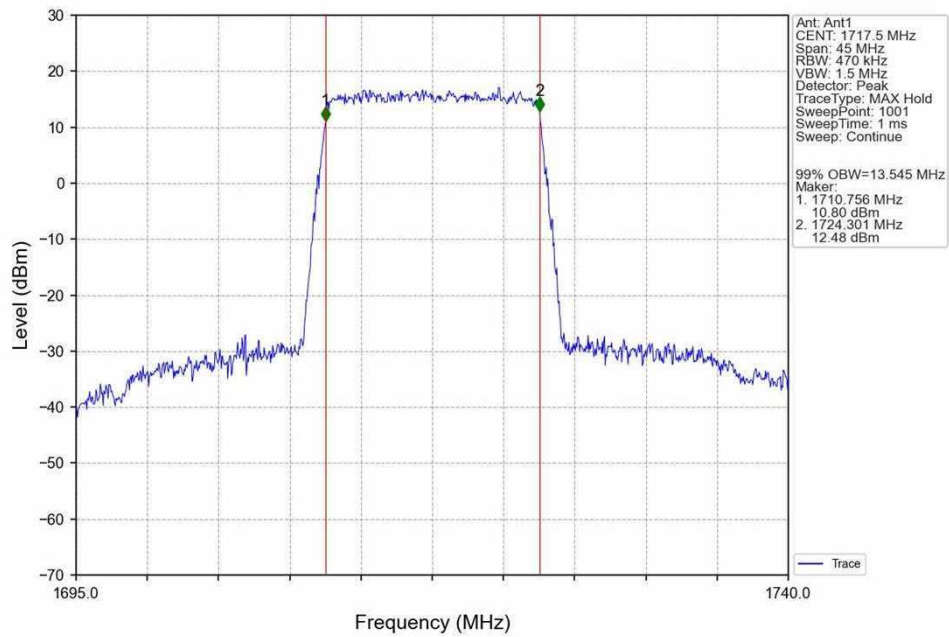
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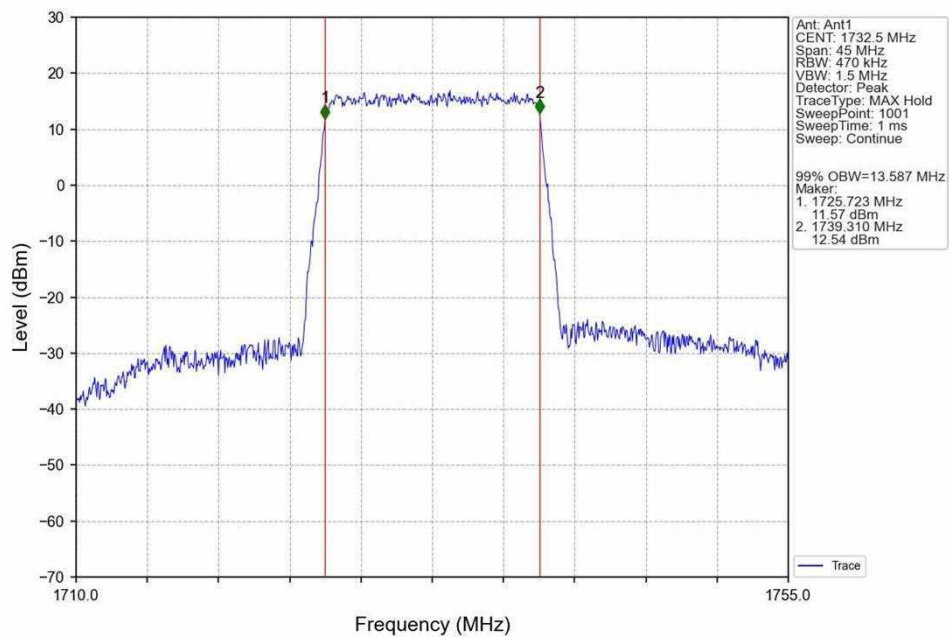
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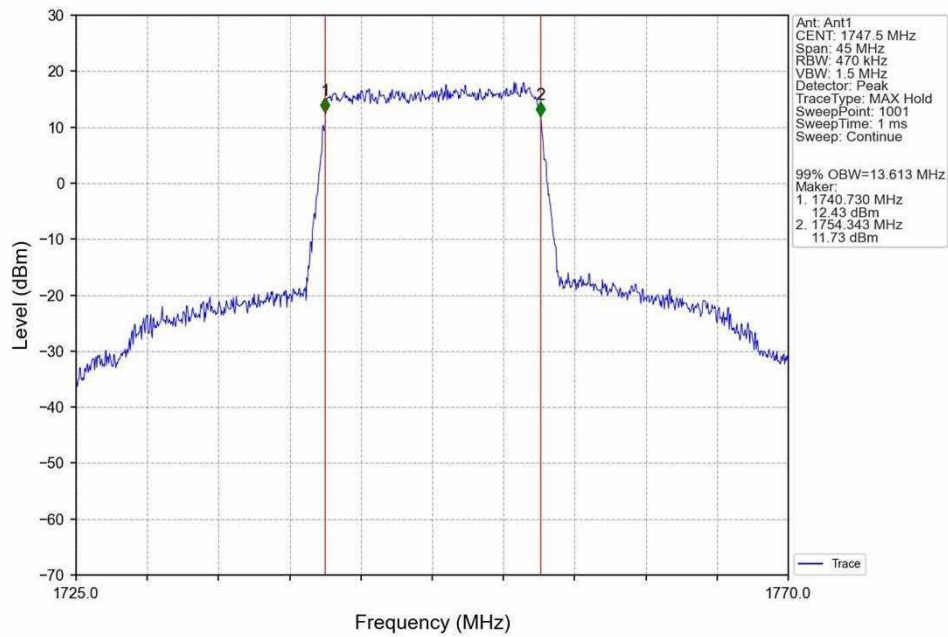
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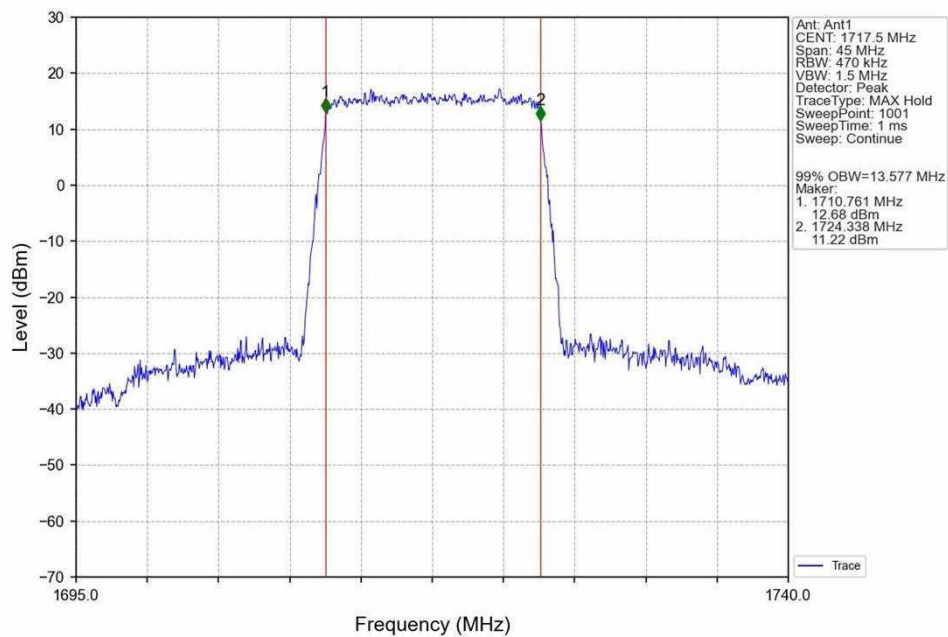
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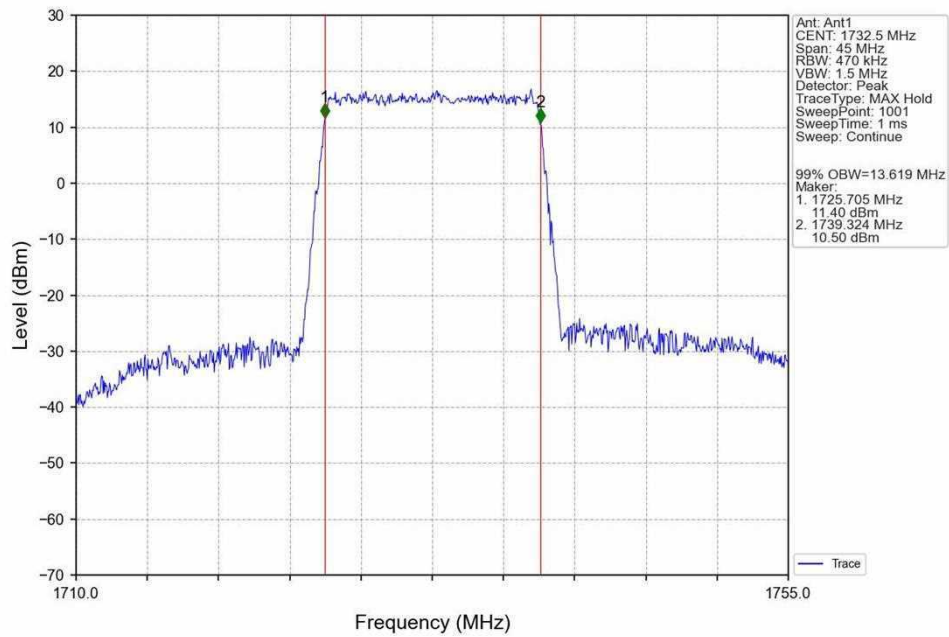
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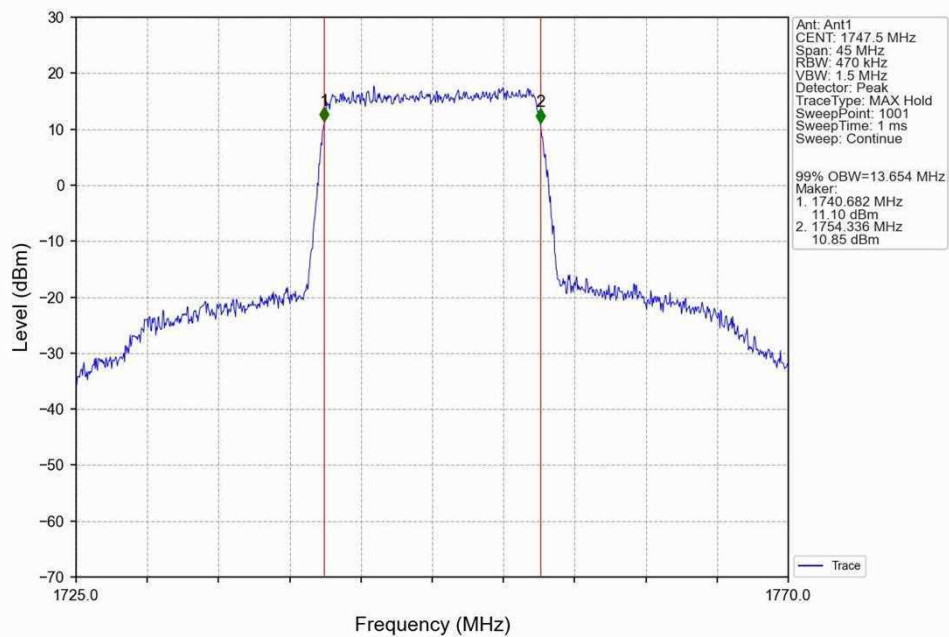
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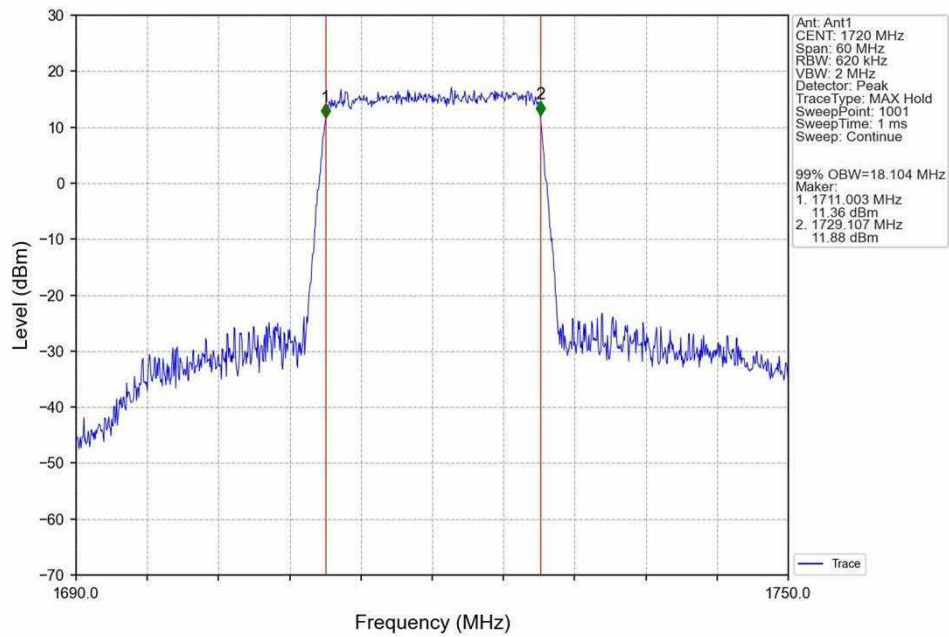
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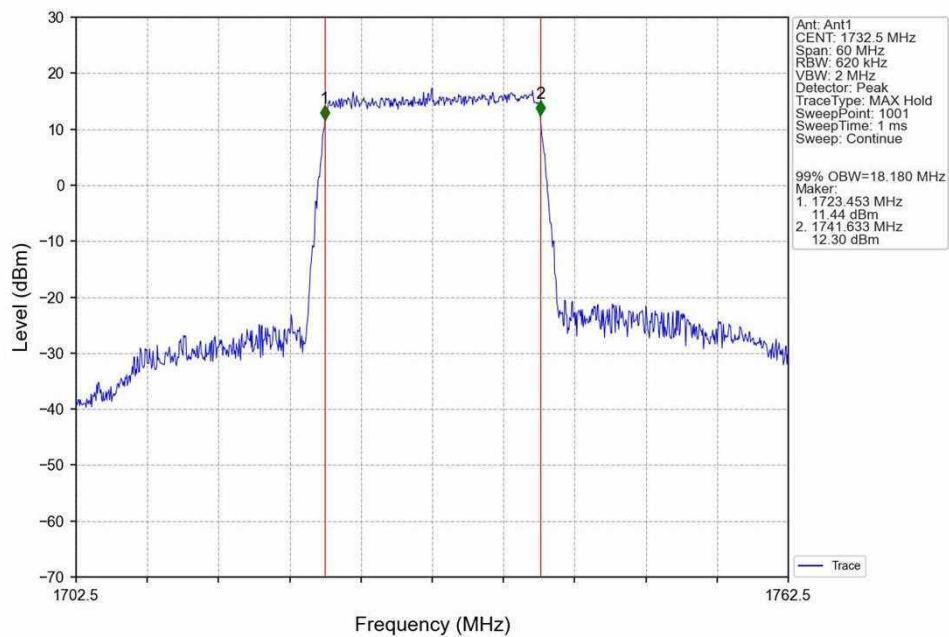
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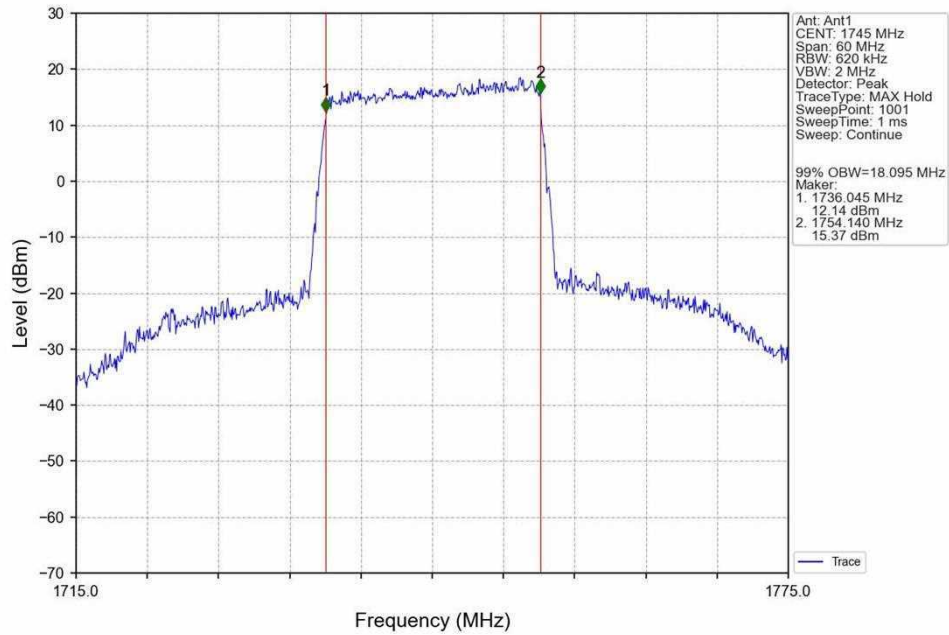
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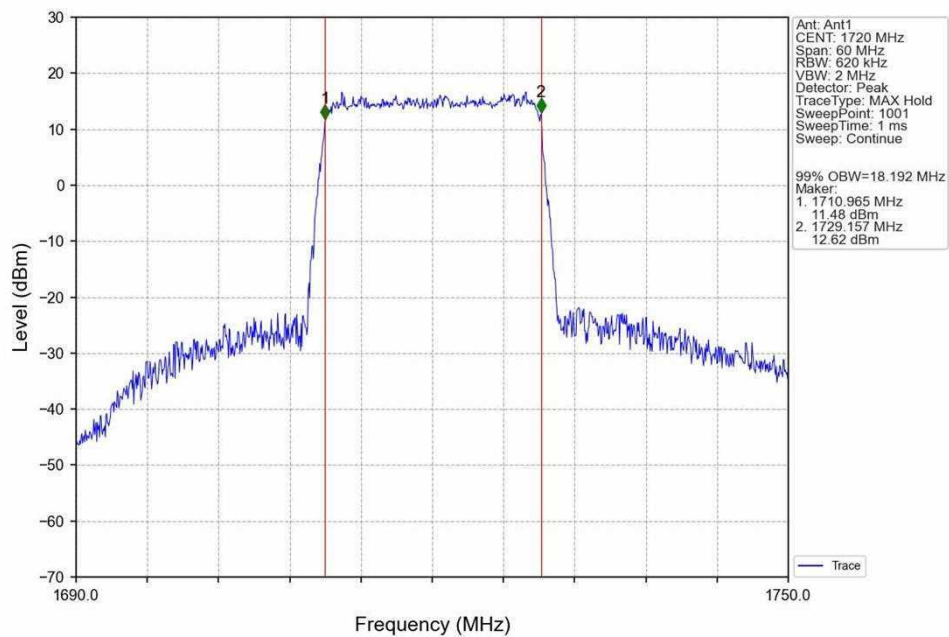
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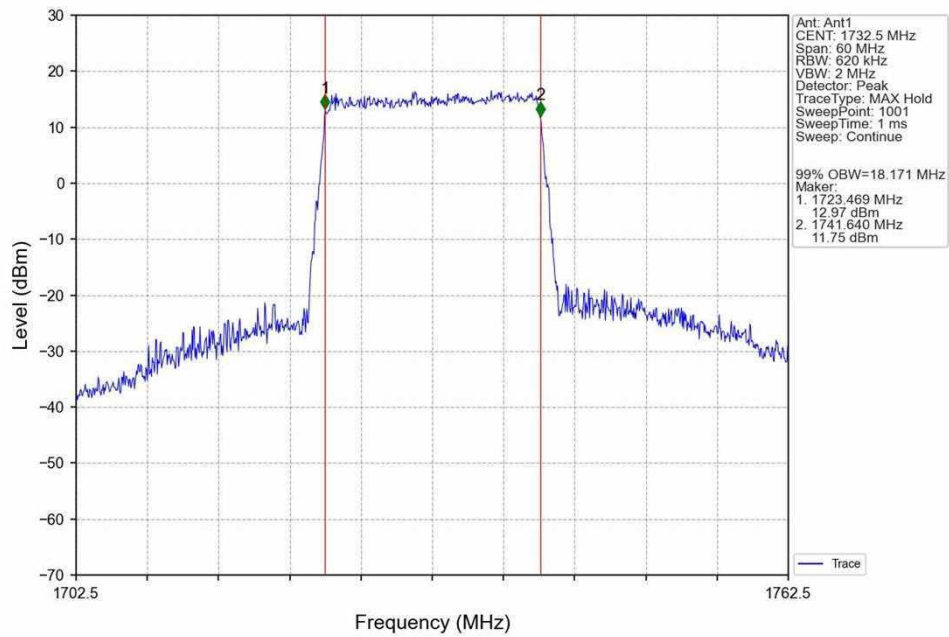
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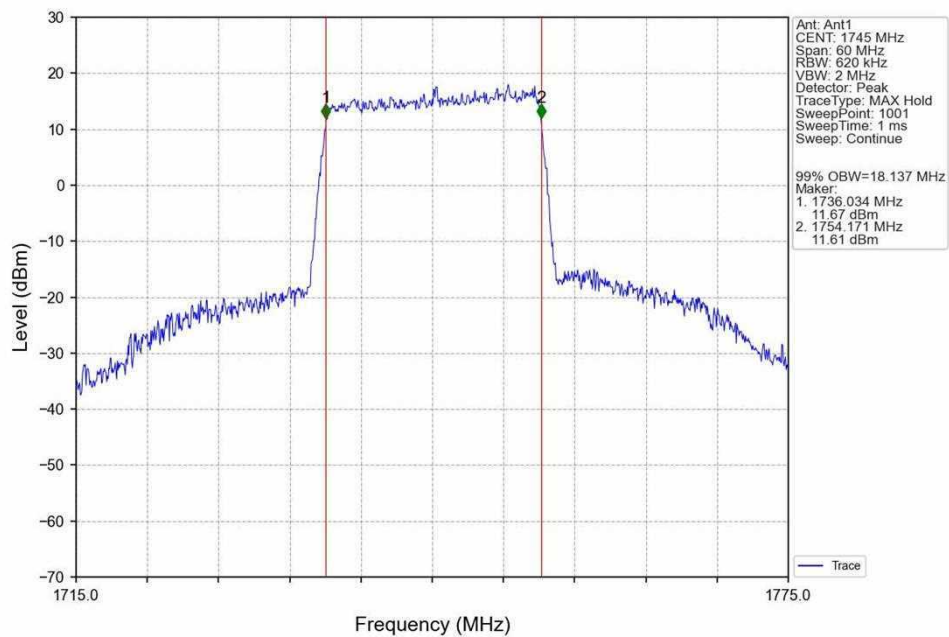
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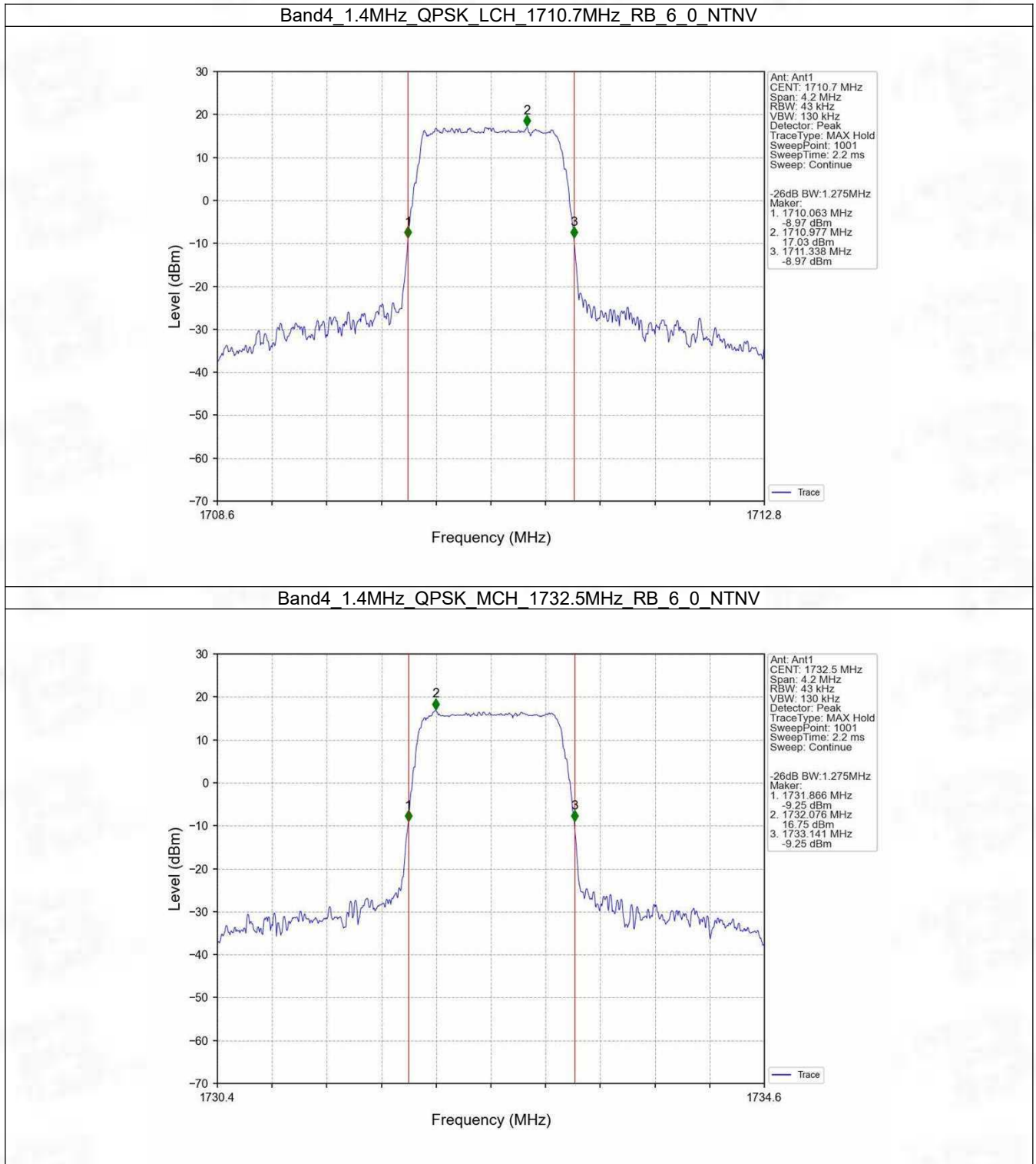
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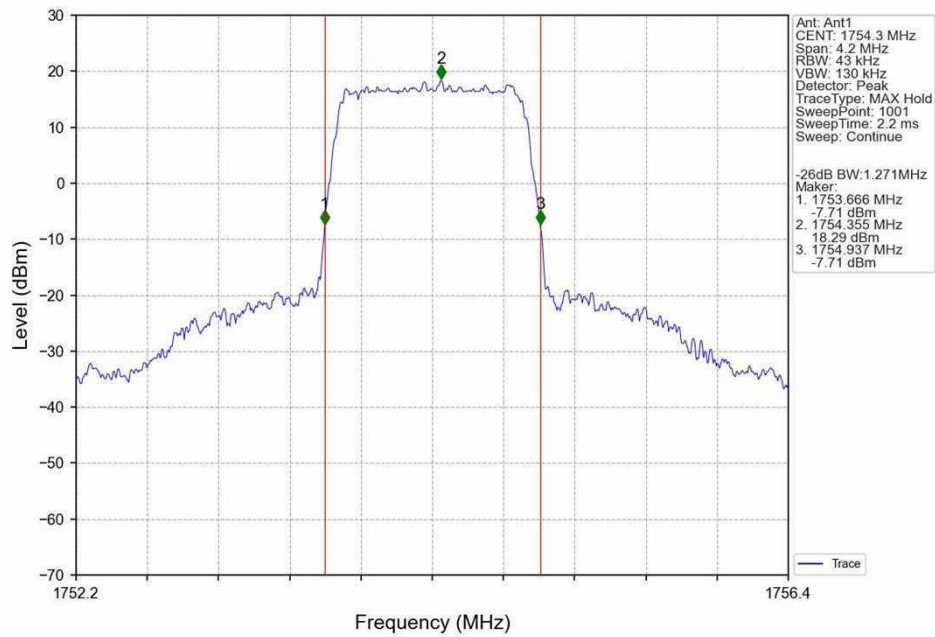
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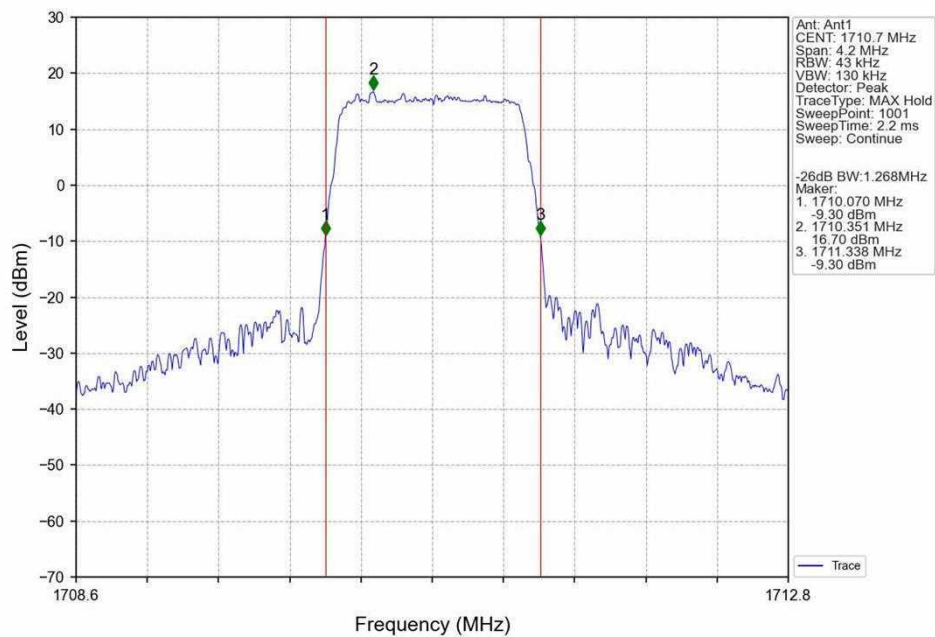
4.2.2 Band4_XDB



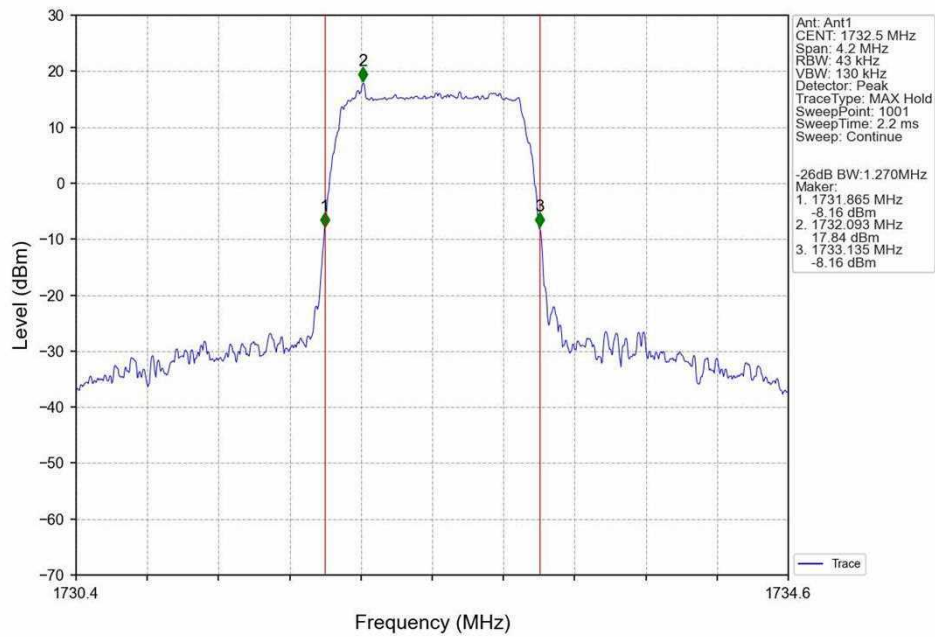
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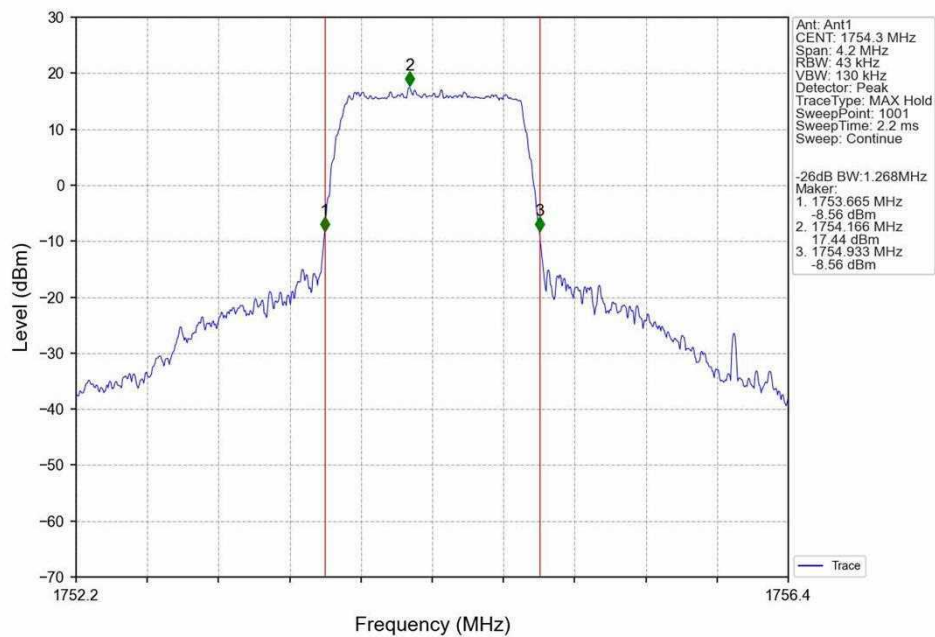
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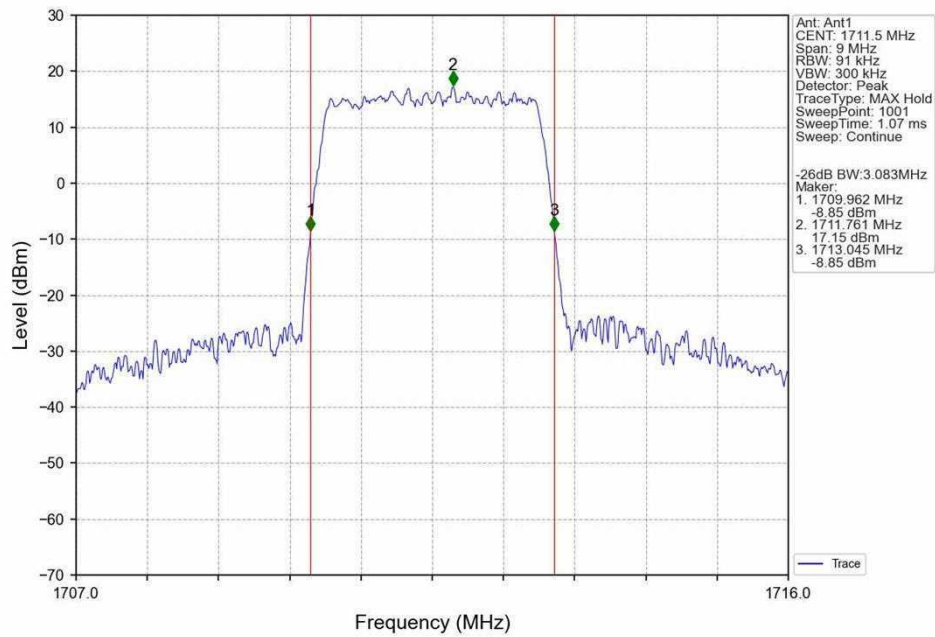
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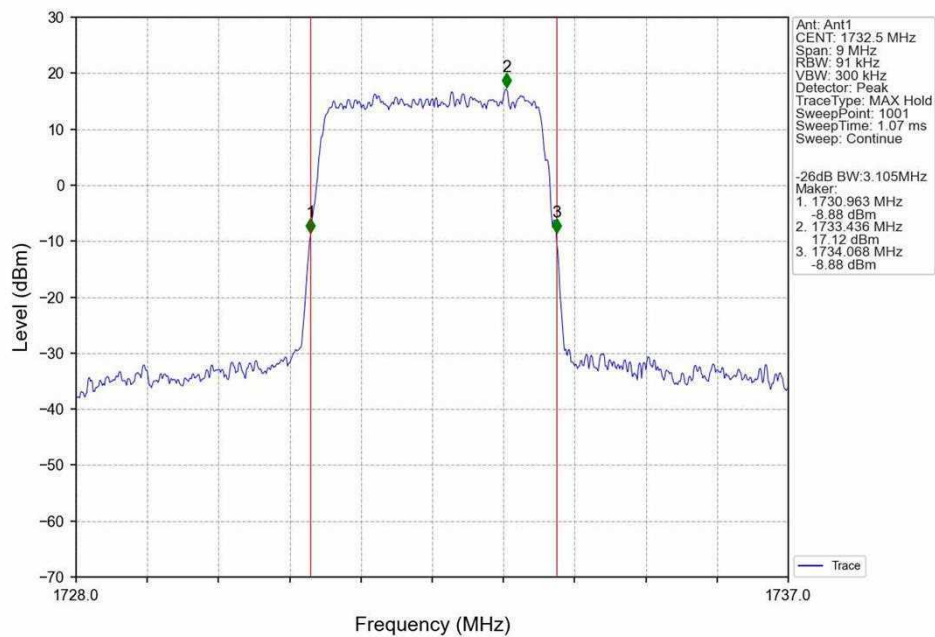
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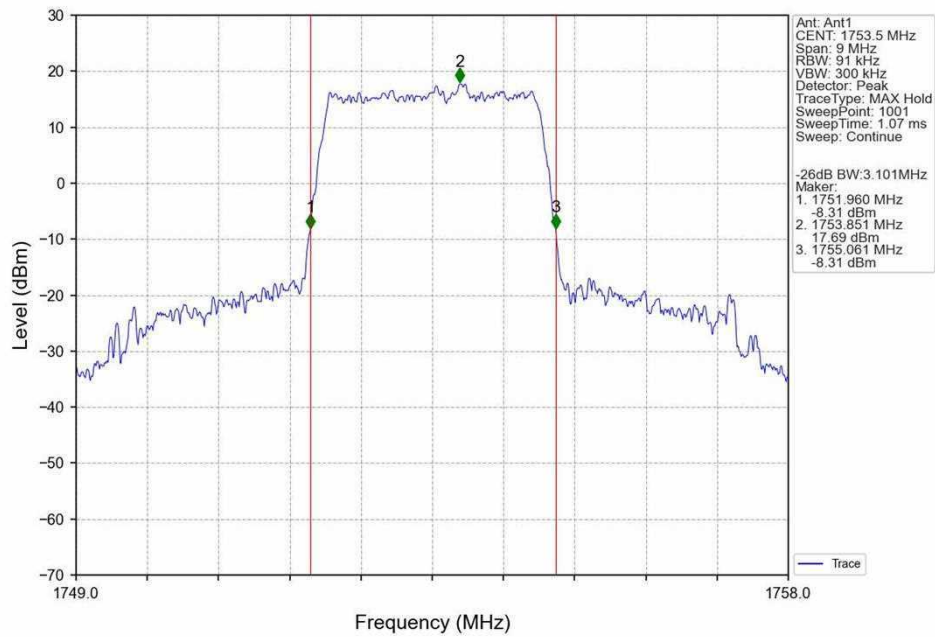
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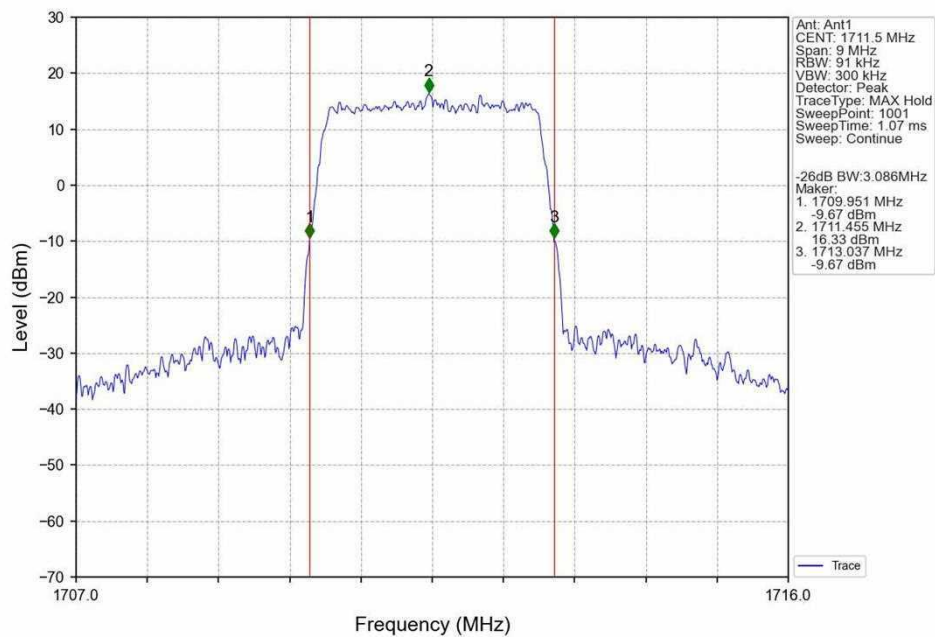
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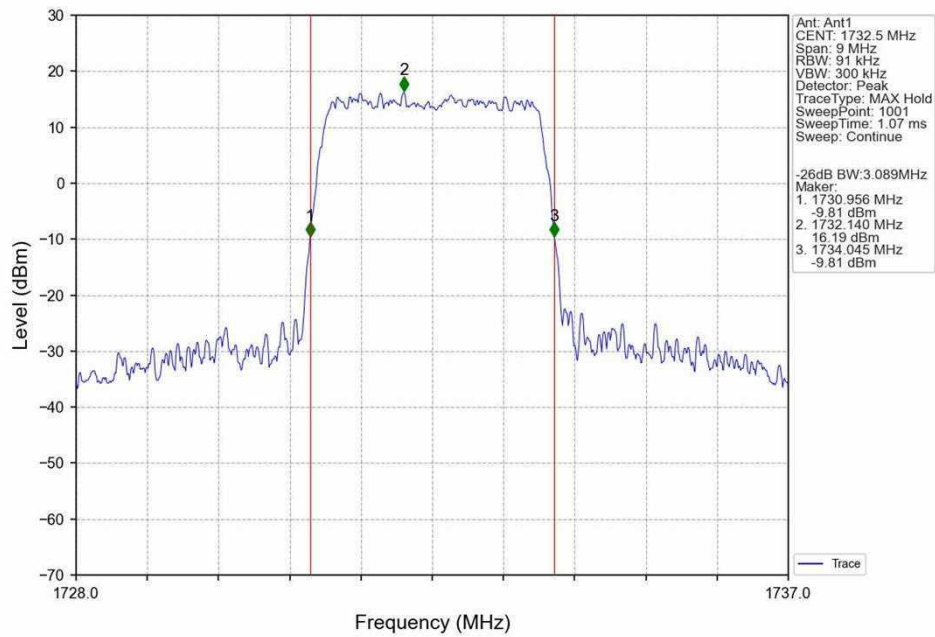
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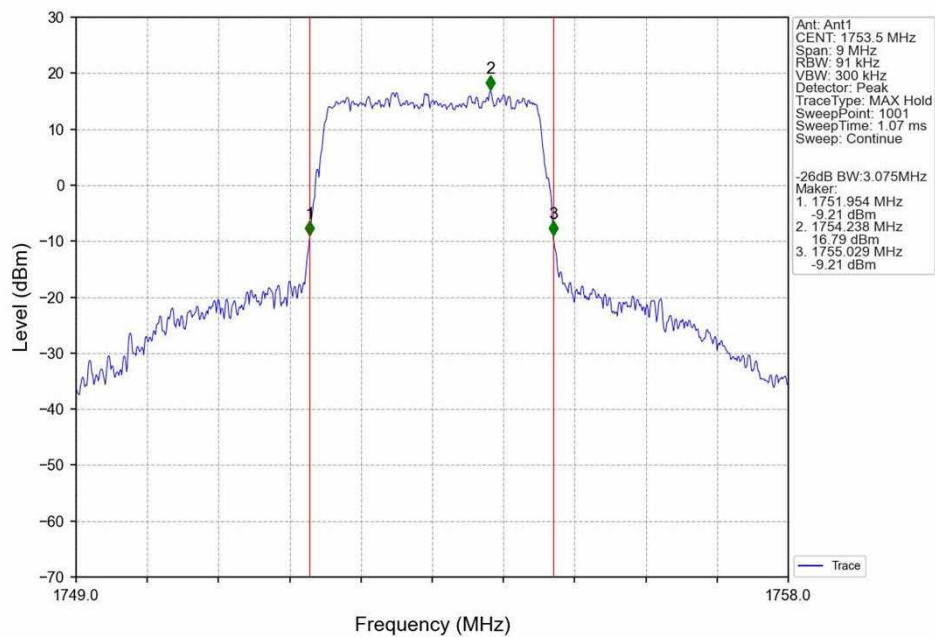
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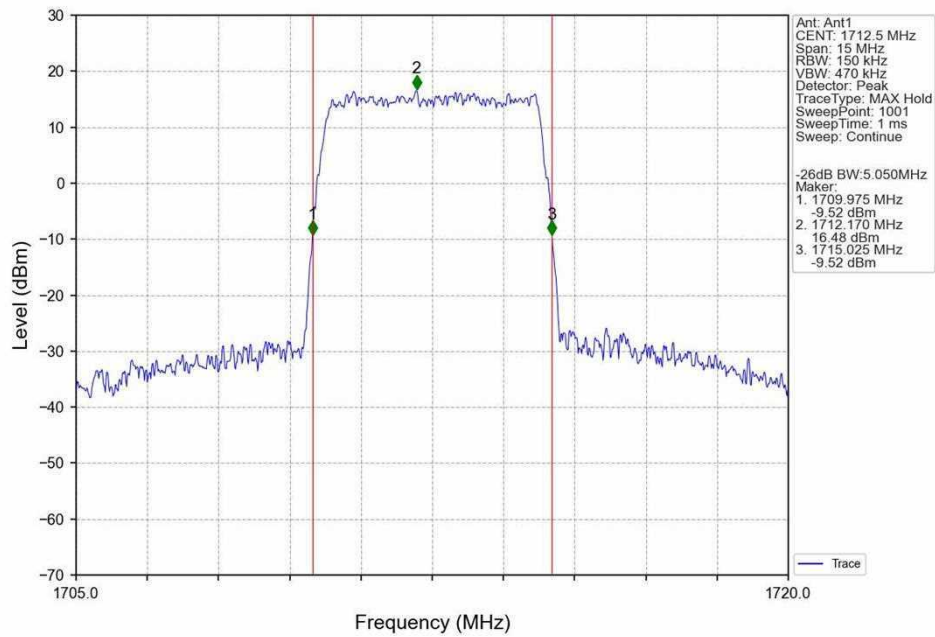
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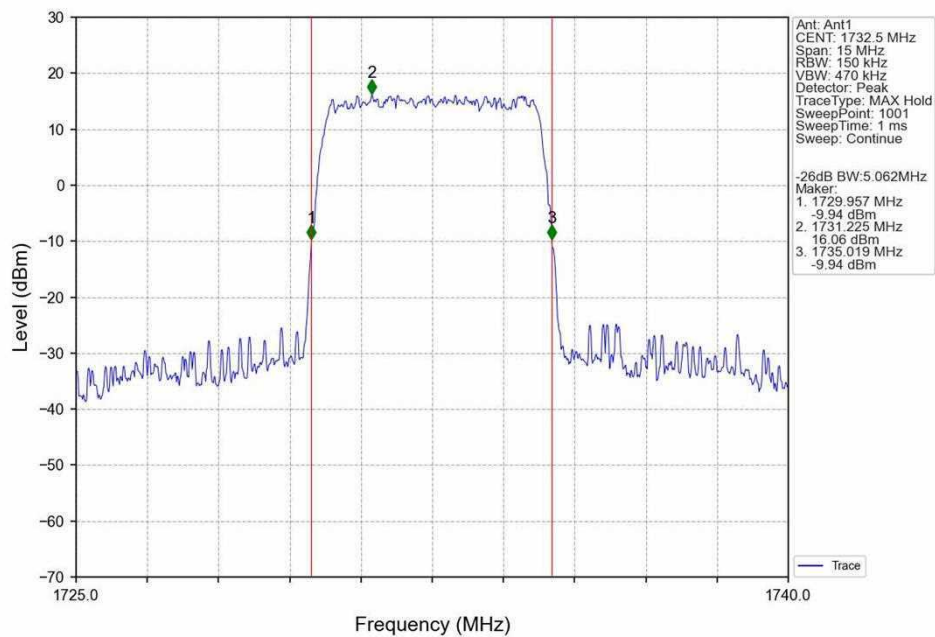
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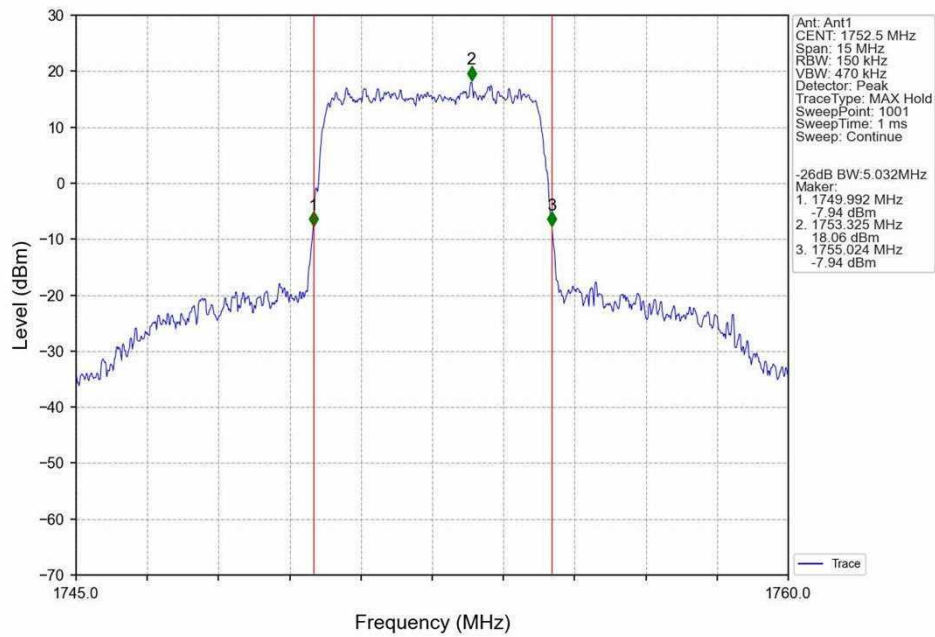
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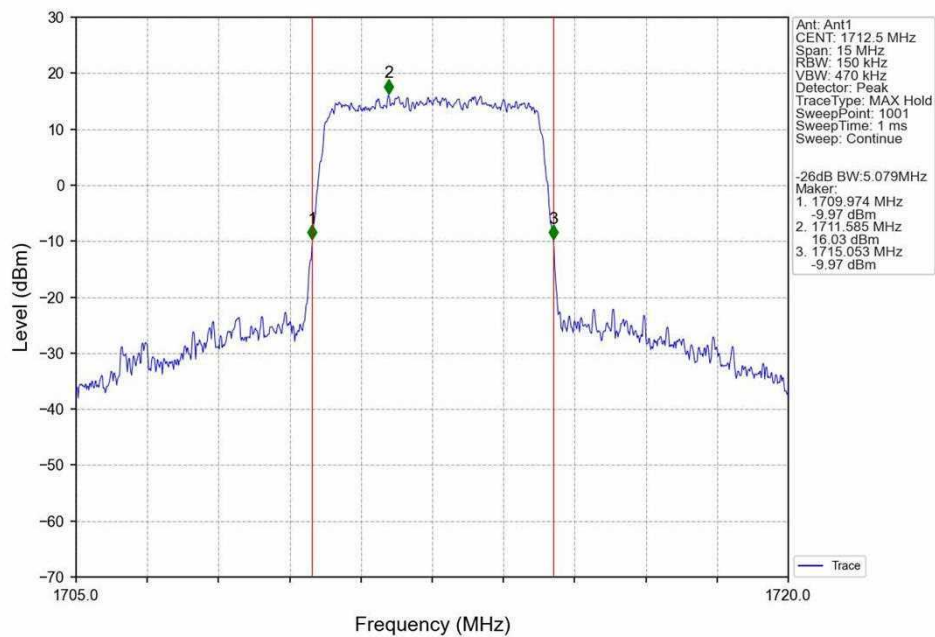
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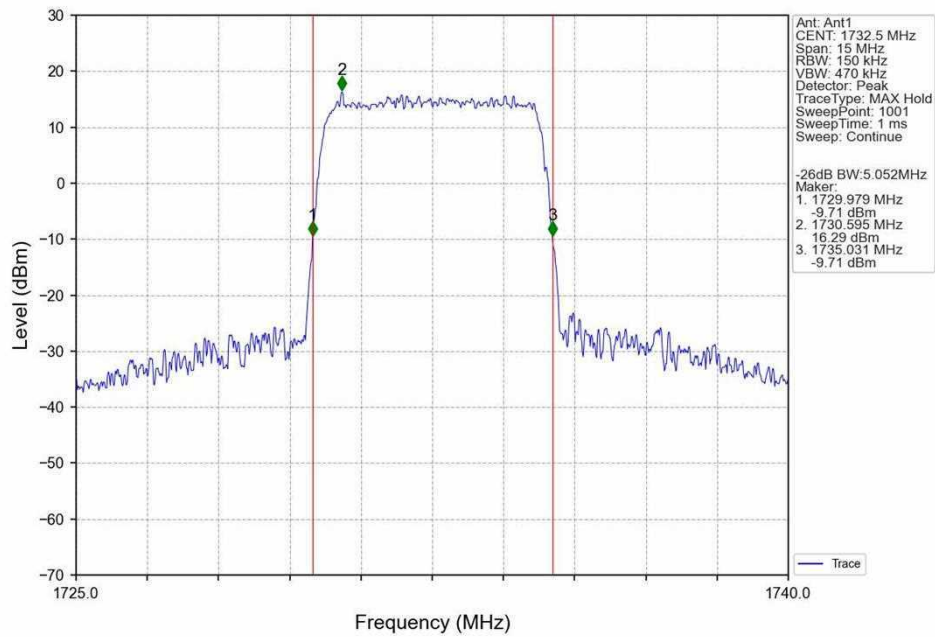
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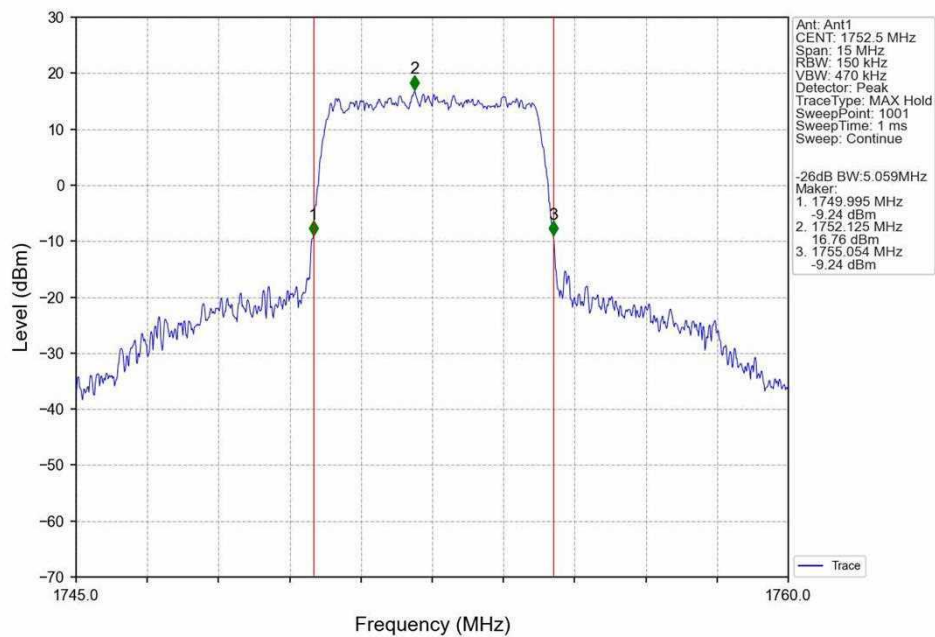
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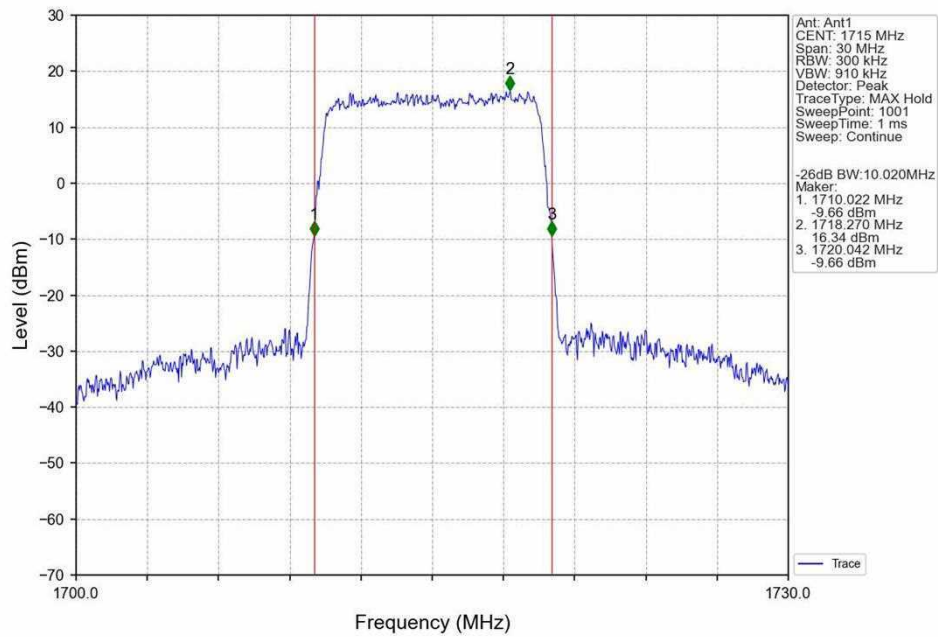
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV

