

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	23.43	2.17	25.60	<=30	Pass
			2	23.34	2.17	25.51	<=30	Pass
			5	23.23	2.17	25.40	<=30	Pass
		3	0	23.19	2.17	25.36	<=30	Pass
			2	23.17	2.17	25.34	<=30	Pass
			3	23.22	2.17	25.39	<=30	Pass
		6	0	22.40	2.17	24.57	<=30	Pass
	1732.5	1	0	23.11	2.17	25.28	<=30	Pass
			2	23.30	2.17	25.47	<=30	Pass
			5	23.30	2.17	25.47	<=30	Pass
		3	0	23.23	2.17	25.40	<=30	Pass
			2	23.26	2.17	25.43	<=30	Pass
			3	23.27	2.17	25.44	<=30	Pass
		6	0	22.27	2.17	24.44	<=30	Pass
	1754.3	1	0	23.19	2.17	25.36	<=30	Pass
			2	23.25	2.17	25.42	<=30	Pass
			5	23.25	2.17	25.42	<=30	Pass
		3	0	23.20	2.17	25.37	<=30	Pass
			2	23.23	2.17	25.40	<=30	Pass
			3	23.27	2.17	25.44	<=30	Pass
		6	0	22.20	2.17	24.37	<=30	Pass
16QAM	1710.7	1	0	22.43	2.17	24.60	<=30	Pass
			2	22.41	2.17	24.58	<=30	Pass
			5	22.40	2.17	24.57	<=30	Pass
		3	0	22.38	2.17	24.55	<=30	Pass
			2	22.36	2.17	24.53	<=30	Pass
			3	22.32	2.17	24.49	<=30	Pass
		6	0	21.42	2.17	23.59	<=30	Pass
	1732.5	1	0	22.12	2.17	24.29	<=30	Pass
			2	22.11	2.17	24.28	<=30	Pass
			5	22.13	2.17	24.30	<=30	Pass
		3	0	22.23	2.17	24.40	<=30	Pass
			2	22.30	2.17	24.47	<=30	Pass
			3	22.38	2.17	24.55	<=30	Pass
		6	0	21.23	2.17	23.40	<=30	Pass
	1754.3	1	0	22.23	2.17	24.40	<=30	Pass
			2	22.31	2.17	24.48	<=30	Pass
			5	22.34	2.17	24.51	<=30	Pass
		3	0	22.15	2.17	24.32	<=30	Pass
			2	22.22	2.17	24.39	<=30	Pass
			3	22.21	2.17	24.38	<=30	Pass
		6	0	21.36	2.17	23.53	<=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	23.20	2.17	25.37	<=30	Pass
			7	23.15	2.17	25.32	<=30	Pass
			14	22.81	2.17	24.98	<=30	Pass
		8	0	22.23	2.17	24.40	<=30	Pass
			4	22.19	2.17	24.36	<=30	Pass
			7	22.08	2.17	24.25	<=30	Pass
		15	0	22.15	2.17	24.32	<=30	Pass
	1732.5	1	0	23.16	2.17	25.33	<=30	Pass
			7	23.25	2.17	25.42	<=30	Pass
			14	23.05	2.17	25.22	<=30	Pass
		8	0	22.17	2.17	24.34	<=30	Pass
			4	22.22	2.17	24.39	<=30	Pass
			7	22.19	2.17	24.36	<=30	Pass
		15	0	22.17	2.17	24.34	<=30	Pass
	1753.5	1	0	23.11	2.17	25.28	<=30	Pass
			7	23.31	2.17	25.48	<=30	Pass
			14	23.19	2.17	25.36	<=30	Pass
		8	0	22.24	2.17	24.41	<=30	Pass
			4	22.28	2.17	24.45	<=30	Pass
			7	22.26	2.17	24.43	<=30	Pass
		15	0	22.26	2.17	24.43	<=30	Pass
16QAM	1711.5	1	0	22.47	2.17	24.64	<=30	Pass
			7	22.47	2.17	24.64	<=30	Pass
			14	22.18	2.17	24.35	<=30	Pass
		8	0	21.30	2.17	23.47	<=30	Pass
			4	21.29	2.17	23.46	<=30	Pass
			7	21.18	2.17	23.35	<=30	Pass
		15	0	21.16	2.17	23.33	<=30	Pass
	1732.5	1	0	22.17	2.17	24.34	<=30	Pass
			7	22.28	2.17	24.45	<=30	Pass
			14	22.06	2.17	24.23	<=30	Pass
		8	0	21.30	2.17	23.47	<=30	Pass
			4	21.35	2.17	23.52	<=30	Pass
			7	21.32	2.17	23.49	<=30	Pass
		15	0	21.26	2.17	23.43	<=30	Pass
	1753.5	1	0	21.93	2.17	24.10	<=30	Pass
			7	22.16	2.17	24.33	<=30	Pass
			14	22.02	2.17	24.19	<=30	Pass
		8	0	21.22	2.17	23.39	<=30	Pass
			4	21.28	2.17	23.45	<=30	Pass
			7	21.25	2.17	23.42	<=30	Pass
		15	0	21.24	2.17	23.41	<=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	23.30	2.17	25.47	<=30	Pass
			13	23.10	2.17	25.27	<=30	Pass
			24	22.96	2.17	25.13	<=30	Pass
		12	0	22.18	2.17	24.35	<=30	Pass
			6	22.06	2.17	24.23	<=30	Pass
			13	21.99	2.17	24.16	<=30	Pass
		25	0	22.08	2.17	24.25	<=30	Pass
	1732.5	1	0	23.29	2.17	25.46	<=30	Pass
			13	23.23	2.17	25.40	<=30	Pass
			24	23.18	2.17	25.35	<=30	Pass
		12	0	22.26	2.17	24.43	<=30	Pass
			6	22.23	2.17	24.40	<=30	Pass
			13	22.23	2.17	24.40	<=30	Pass
		25	0	22.24	2.17	24.41	<=30	Pass
	1752.5	1	0	23.50	2.17	25.67	<=30	Pass
			13	23.31	2.17	25.48	<=30	Pass
			24	23.38	2.17	25.55	<=30	Pass
		12	0	22.41	2.17	24.58	<=30	Pass
			6	22.35	2.17	24.52	<=30	Pass
			13	22.38	2.17	24.55	<=30	Pass
		25	0	22.38	2.17	24.55	<=30	Pass
16QAM	1712.5	1	0	22.45	2.17	24.62	<=30	Pass
			13	22.23	2.17	24.40	<=30	Pass
			24	22.16	2.17	24.33	<=30	Pass
		12	0	21.28	2.17	23.45	<=30	Pass
			6	21.18	2.17	23.35	<=30	Pass
			13	21.12	2.17	23.29	<=30	Pass
		25	0	21.24	2.17	23.41	<=30	Pass
	1732.5	1	0	22.41	2.17	24.58	<=30	Pass
			13	22.38	2.17	24.55	<=30	Pass
			24	22.31	2.17	24.48	<=30	Pass
		12	0	21.36	2.17	23.53	<=30	Pass
			6	21.34	2.17	23.51	<=30	Pass
			13	21.35	2.17	23.52	<=30	Pass
		25	0	21.38	2.17	23.55	<=30	Pass
	1752.5	1	0	22.69	2.17	24.86	<=30	Pass
			13	22.53	2.17	24.70	<=30	Pass
			24	22.61	2.17	24.78	<=30	Pass
		12	0	21.50	2.17	23.67	<=30	Pass
			6	21.44	2.17	23.61	<=30	Pass
			13	21.48	2.17	23.65	<=30	Pass
		25	0	21.53	2.17	23.70	<=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	23.35	2.17	25.52	<=30	Pass
			25	23.08	2.17	25.25	<=30	Pass
			49	23.18	2.17	25.35	<=30	Pass
		25	0	22.15	2.17	24.32	<=30	Pass
			13	22.05	2.17	24.22	<=30	Pass
			25	22.07	2.17	24.24	<=30	Pass
		50	0	22.12	2.17	24.29	<=30	Pass
	1732.5	1	0	23.39	2.17	25.56	<=30	Pass
			25	23.30	2.17	25.47	<=30	Pass
			49	23.23	2.17	25.40	<=30	Pass
		25	0	22.31	2.17	24.48	<=30	Pass
			13	22.31	2.17	24.48	<=30	Pass
			25	22.26	2.17	24.43	<=30	Pass
		50	0	22.30	2.17	24.47	<=30	Pass
	1750	1	0	23.40	2.17	25.57	<=30	Pass
			25	23.45	2.17	25.62	<=30	Pass
			49	23.35	2.17	25.52	<=30	Pass
		25	0	22.50	2.17	24.67	<=30	Pass
			13	22.52	2.17	24.69	<=30	Pass
			25	22.50	2.17	24.67	<=30	Pass
		50	0	22.52	2.17	24.69	<=30	Pass
16QAM	1715	1	0	22.57	2.17	24.74	<=30	Pass
			25	22.30	2.17	24.47	<=30	Pass
			49	22.40	2.17	24.57	<=30	Pass
		12	0	22.29	2.17	24.46	<=30	Pass
			19	22.07	2.17	24.24	<=30	Pass
			38	22.16	2.17	24.33	<=30	Pass
		27	0	21.21	2.17	23.38	<=30	Pass
	1732.5	1	0	22.38	2.17	24.55	<=30	Pass
			25	22.31	2.17	24.48	<=30	Pass
			49	22.24	2.17	24.41	<=30	Pass
		12	0	22.32	2.17	24.49	<=30	Pass
			19	22.27	2.17	24.44	<=30	Pass
			38	22.24	2.17	24.41	<=30	Pass
		27	0	21.47	2.17	23.64	<=30	Pass
	1750	1	0	22.29	2.17	24.46	<=30	Pass
			25	22.36	2.17	24.53	<=30	Pass
			49	22.29	2.17	24.46	<=30	Pass
		12	0	22.54	2.17	24.71	<=30	Pass
			19	22.59	2.17	24.76	<=30	Pass
			38	22.45	2.17	24.62	<=30	Pass
		27	23	21.65	2.17	23.82	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.24	2.17	25.41	<=30	Pass
			38	23.03	2.17	25.20	<=30	Pass
			74	23.17	2.17	25.34	<=30	Pass
		36	0	22.03	2.17	24.20	<=30	Pass
			18	22.12	2.17	24.29	<=30	Pass
			39	22.24	2.17	24.41	<=30	Pass
		75	0	22.16	2.17	24.33	<=30	Pass
	1732.5	1	0	23.43	2.17	25.60	<=30	Pass
			38	23.39	2.17	25.56	<=30	Pass
			74	23.21	2.17	25.38	<=30	Pass
		36	0	22.39	2.17	24.56	<=30	Pass
			18	22.33	2.17	24.50	<=30	Pass
			39	22.37	2.17	24.54	<=30	Pass
		75	0	22.40	2.17	24.57	<=30	Pass
	1747.5	1	0	23.31	2.17	25.48	<=30	Pass
			38	23.74	2.17	25.91	<=30	Pass
			74	23.63	2.17	25.80	<=30	Pass
		36	0	22.62	2.17	24.79	<=30	Pass
			18	22.75	2.17	24.92	<=30	Pass
			39	22.72	2.17	24.89	<=30	Pass
		75	0	22.65	2.17	24.82	<=30	Pass
16QAM	1717.5	1	0	22.23	2.17	24.40	<=30	Pass
			38	22.05	2.17	24.22	<=30	Pass
			74	22.24	2.17	24.41	<=30	Pass
		12	0	22.13	2.17	24.30	<=30	Pass
			31	22.01	2.17	24.18	<=30	Pass
			63	22.19	2.17	24.36	<=30	Pass
		27	0	21.17	2.17	23.34	<=30	Pass
	1732.5	1	0	22.43	2.17	24.60	<=30	Pass
			38	22.42	2.17	24.59	<=30	Pass
			74	22.32	2.17	24.49	<=30	Pass
		12	0	22.43	2.17	24.60	<=30	Pass
			31	22.37	2.17	24.54	<=30	Pass
			63	22.27	2.17	24.44	<=30	Pass
		27	0	21.53	2.17	23.70	<=30	Pass
	1747.5	1	0	22.30	2.17	24.47	<=30	Pass
			38	22.68	2.17	24.85	<=30	Pass
			74	22.52	2.17	24.69	<=30	Pass
		12	0	22.35	2.17	24.52	<=30	Pass
			31	22.73	2.17	24.90	<=30	Pass
			63	22.60	2.17	24.77	<=30	Pass
		27	48	21.87	2.17	24.04	<=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	23.34	2.17	25.51	<=30	Pass
			50	23.47	2.17	25.64	<=30	Pass
			99	23.45	2.17	25.62	<=30	Pass
		50	0	22.30	2.17	24.47	<=30	Pass
			25	22.39	2.17	24.56	<=30	Pass
			50	22.47	2.17	24.64	<=30	Pass
		100	0	22.39	2.17	24.56	<=30	Pass
	1732.5	1	0	23.45	2.17	25.62	<=30	Pass
			50	23.41	2.17	25.58	<=30	Pass
			99	23.19	2.17	25.36	<=30	Pass
		50	0	22.60	2.17	24.77	<=30	Pass
			25	22.56	2.17	24.73	<=30	Pass
			50	22.46	2.17	24.63	<=30	Pass
		100	0	22.51	2.17	24.68	<=30	Pass
	1745	1	0	23.21	2.17	25.38	<=30	Pass
			50	23.63	2.17	25.80	<=30	Pass
			99	23.64	2.17	25.81	<=30	Pass
		50	0	22.55	2.17	24.72	<=30	Pass
			25	22.72	2.17	24.89	<=30	Pass
			50	22.76	2.17	24.93	<=30	Pass
		100	0	22.62	2.17	24.79	<=30	Pass
16QAM	1720	1	0	22.84	2.17	25.01	<=30	Pass
			50	22.83	2.17	25.00	<=30	Pass
			99	22.86	2.17	25.03	<=30	Pass
		12	0	22.43	2.17	24.60	<=30	Pass
			44	22.45	2.17	24.62	<=30	Pass
			88	22.53	2.17	24.70	<=30	Pass
		27	0	21.39	2.17	23.56	<=30	Pass
	1732.5	1	0	22.85	2.17	25.02	<=30	Pass
			50	22.85	2.17	25.02	<=30	Pass
			99	22.68	2.17	24.85	<=30	Pass
		12	0	22.54	2.17	24.71	<=30	Pass
			44	22.47	2.17	24.64	<=30	Pass
			88	22.38	2.17	24.55	<=30	Pass
		27	0	21.60	2.17	23.77	<=30	Pass
	1745	1	0	22.66	2.17	24.83	<=30	Pass
			50	22.99	2.17	25.16	<=30	Pass
			99	22.88	2.17	25.05	<=30	Pass
		12	0	22.35	2.17	24.52	<=30	Pass
			44	22.72	2.17	24.89	<=30	Pass
			88	22.62	2.17	24.79	<=30	Pass
		27	73	21.83	2.17	24.00	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1732.5	50	0	20	LV	-3.905	-0.0023	-2.5 to 2.5	Pass
					NV	-2.875	-0.0017	-2.5 to 2.5	Pass
					HV	-2.503	-0.0014	-2.5 to 2.5	Pass
				-30	NV	-0.172	-0.0001	-2.5 to 2.5	Pass
				-20	NV	0.458	0.0003	-2.5 to 2.5	Pass
				-10	NV	-0.758	-0.0004	-2.5 to 2.5	Pass
				0	NV	-1.130	-0.0007	-2.5 to 2.5	Pass
				10	NV	-0.029	0.0000	-2.5 to 2.5	Pass
				30	NV	-0.143	-0.0001	-2.5 to 2.5	Pass
				40	NV	-0.057	0.0000	-2.5 to 2.5	Pass
				50	NV	0.372	0.0002	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band4_OBW

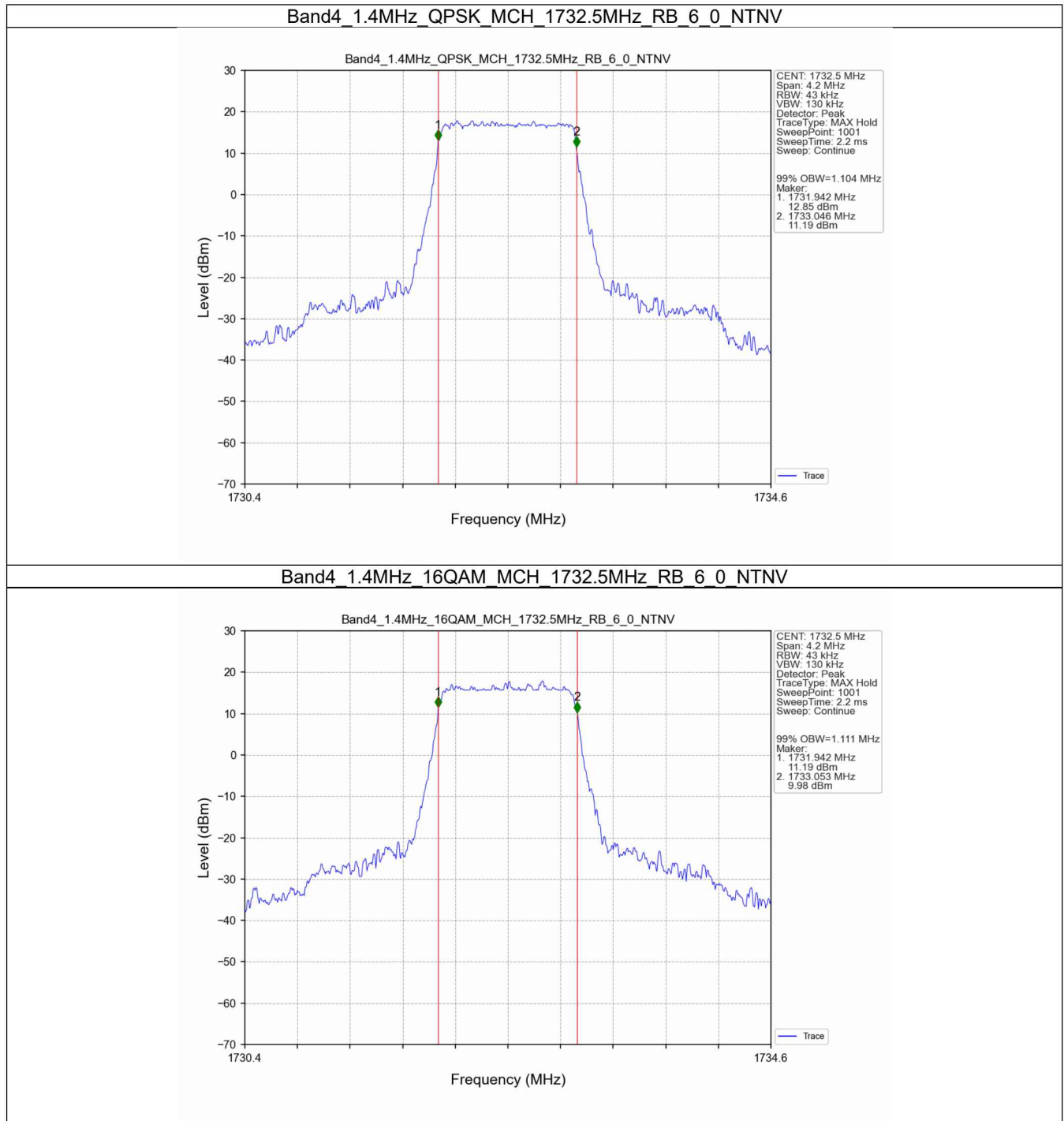
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.104	/	Pass
	16QAM	1732.5	6	0	1.111	/	Pass
3	QPSK	1732.5	15	0	2.740	/	Pass
	16QAM	1732.5	15	0	2.748	/	Pass
5	QPSK	1732.5	25	0	4.574	/	Pass
	16QAM	1732.5	25	0	4.548	/	Pass
10	QPSK	1732.5	50	0	9.069	/	Pass
	16QAM	1732.5	27	0	5.132	/	Pass
15	QPSK	1732.5	75	0	13.625	/	Pass
	16QAM	1732.5	27	0	5.380	/	Pass
20	QPSK	1732.5	100	0	18.103	/	Pass
	16QAM	1732.5	27	0	5.676	/	Pass

3.1.2 Band4_XDB

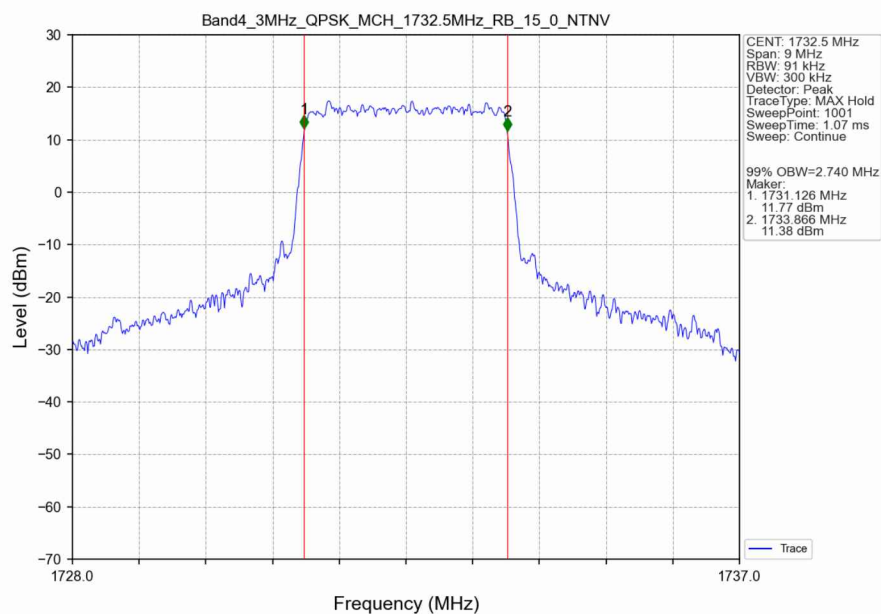
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.313	/	Pass
	16QAM	1732.5	6	0	1.309	/	Pass
3	QPSK	1732.5	15	0	3.033	/	Pass
	16QAM	1732.5	15	0	3.039	/	Pass
5	QPSK	1732.5	25	0	5.479	/	Pass
	16QAM	1732.5	25	0	5.793	/	Pass
10	QPSK	1732.5	50	0	10.262	/	Pass
	16QAM	1732.5	27	0	6.353	/	Pass
15	QPSK	1732.5	75	0	15.598	/	Pass
	16QAM	1732.5	27	0	7.084	/	Pass
20	QPSK	1732.5	100	0	20.420	/	Pass
	16QAM	1732.5	27	0	7.589	/	Pass

3.2 Test Graph

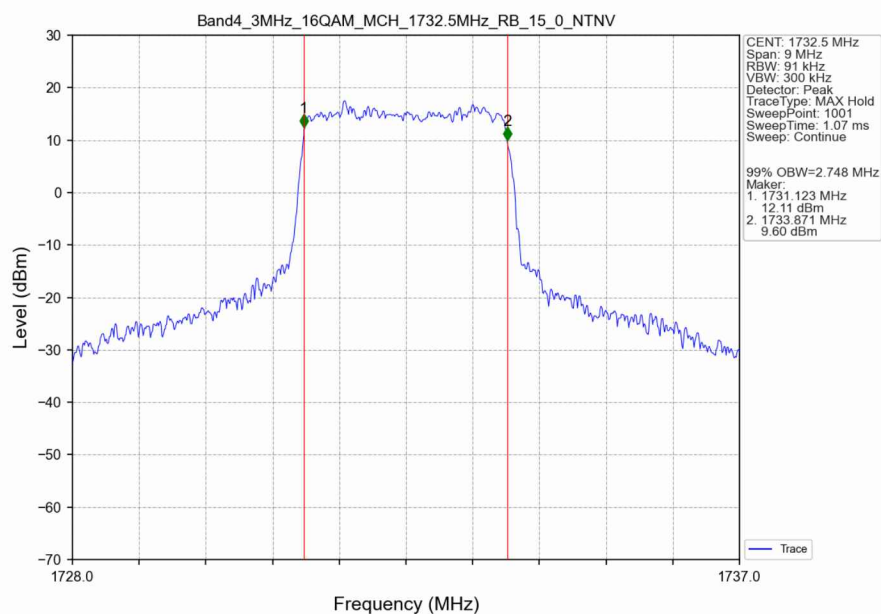
3.2.1 Band4_OBW



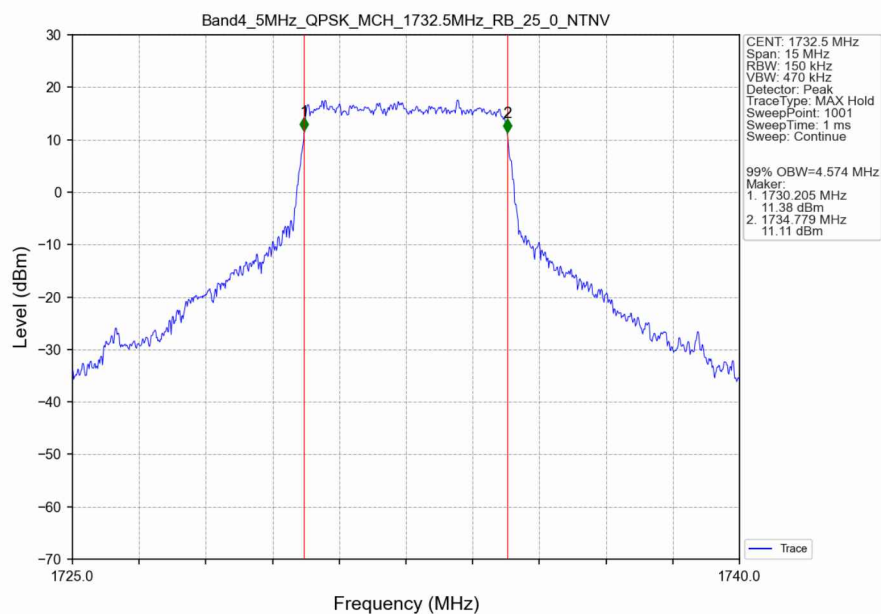
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



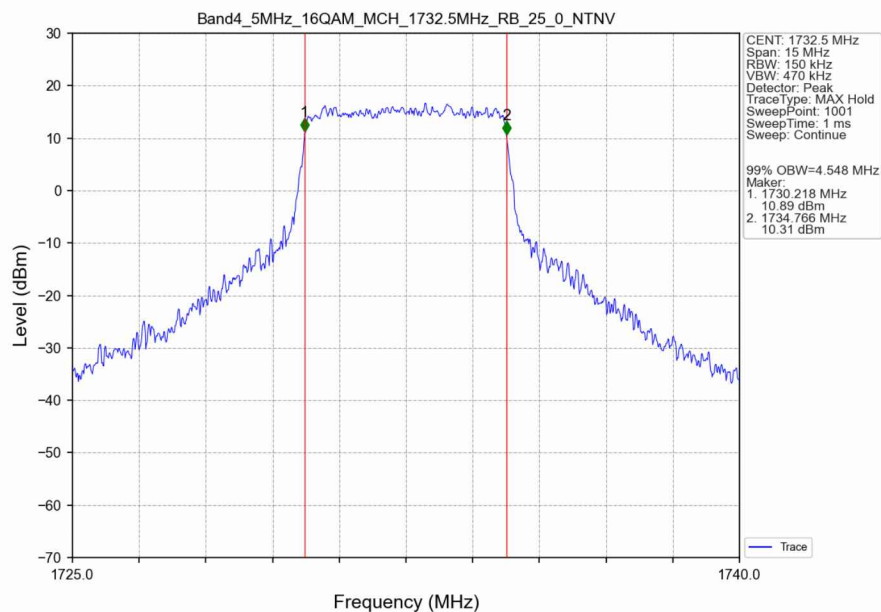
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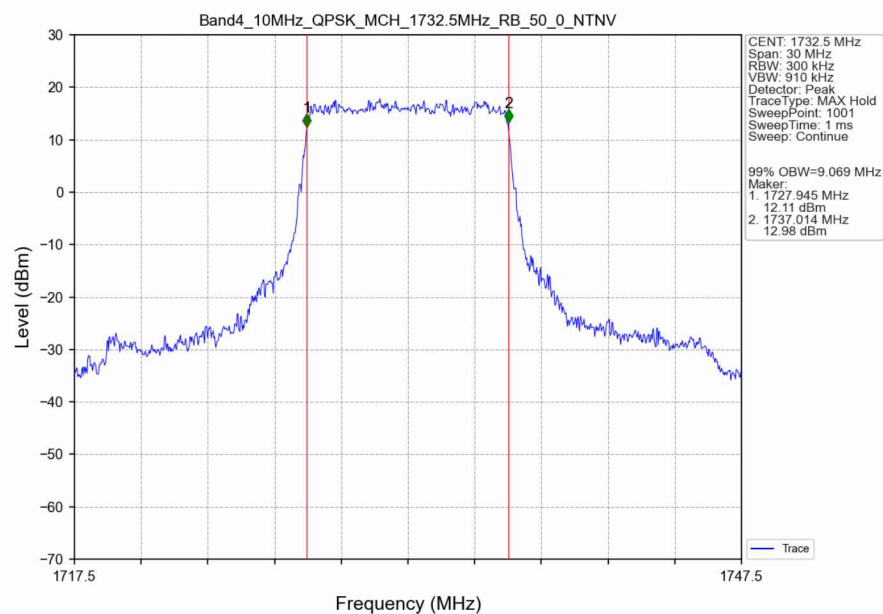
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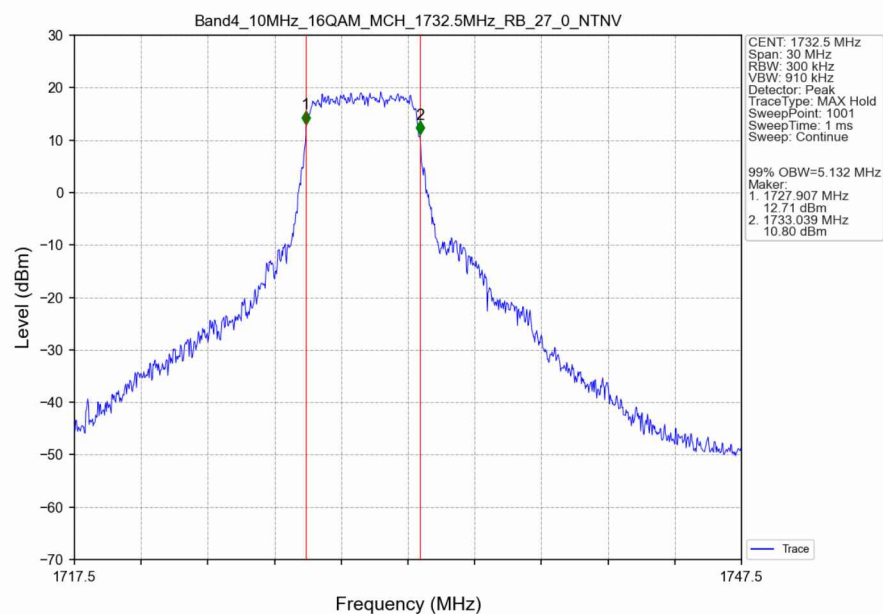
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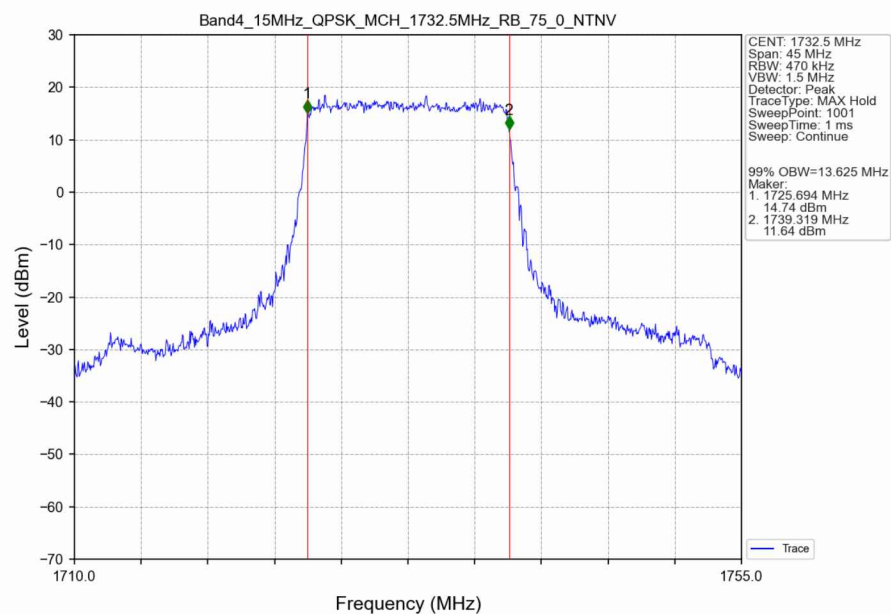
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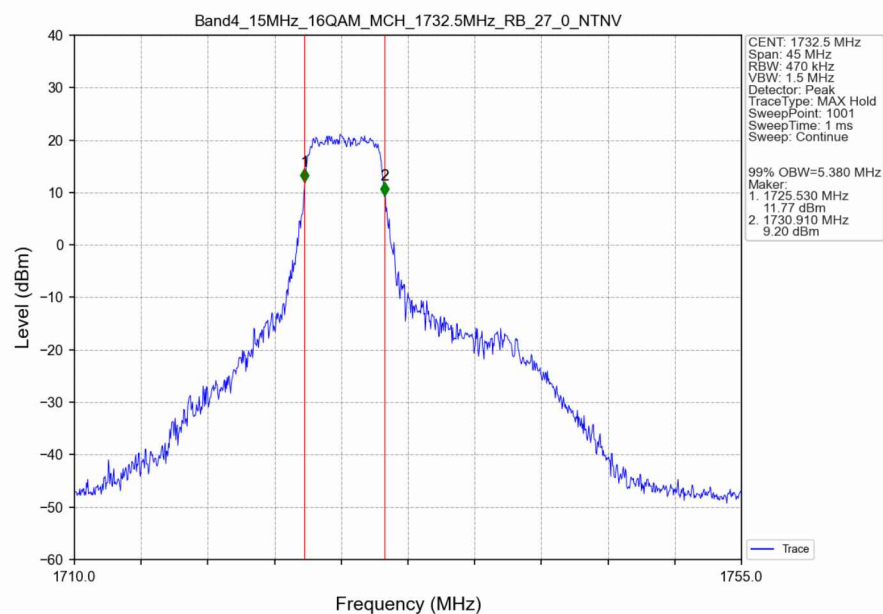
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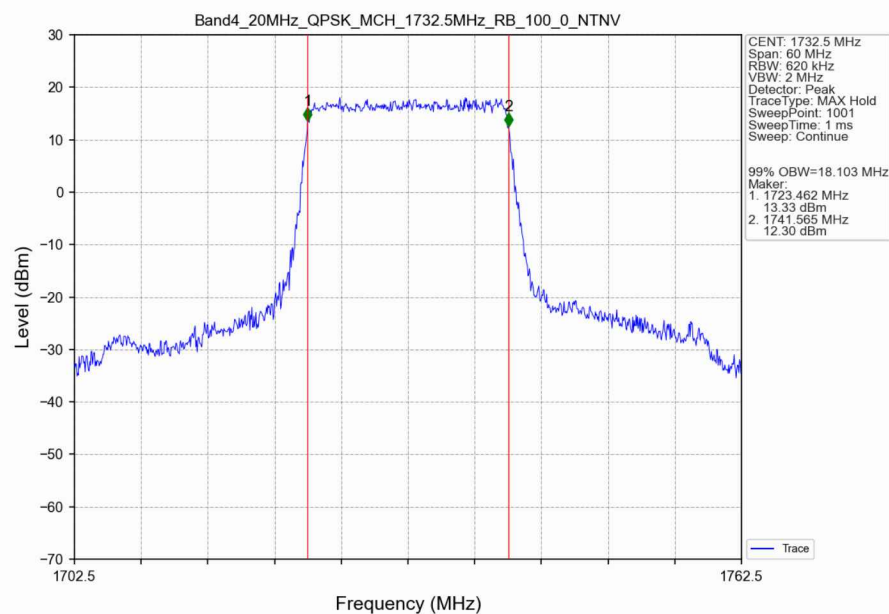
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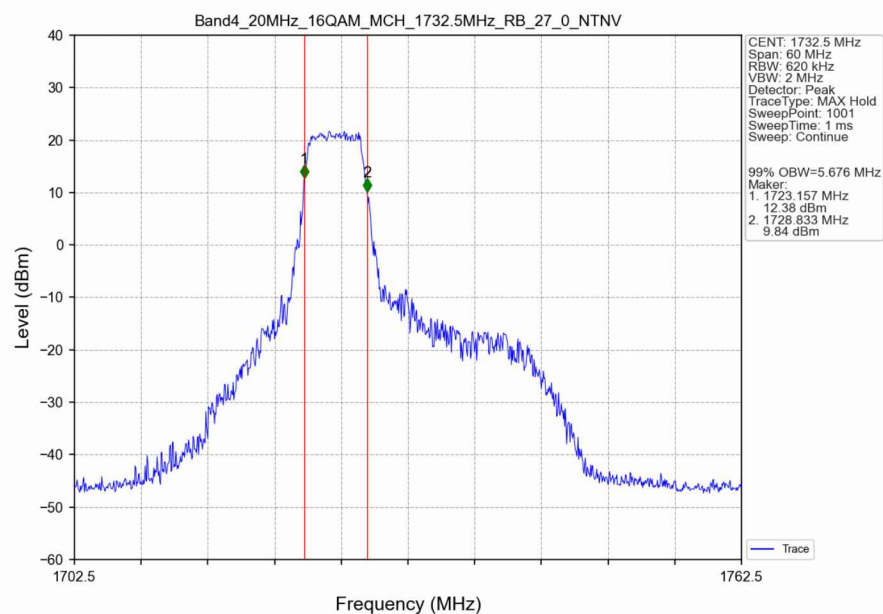
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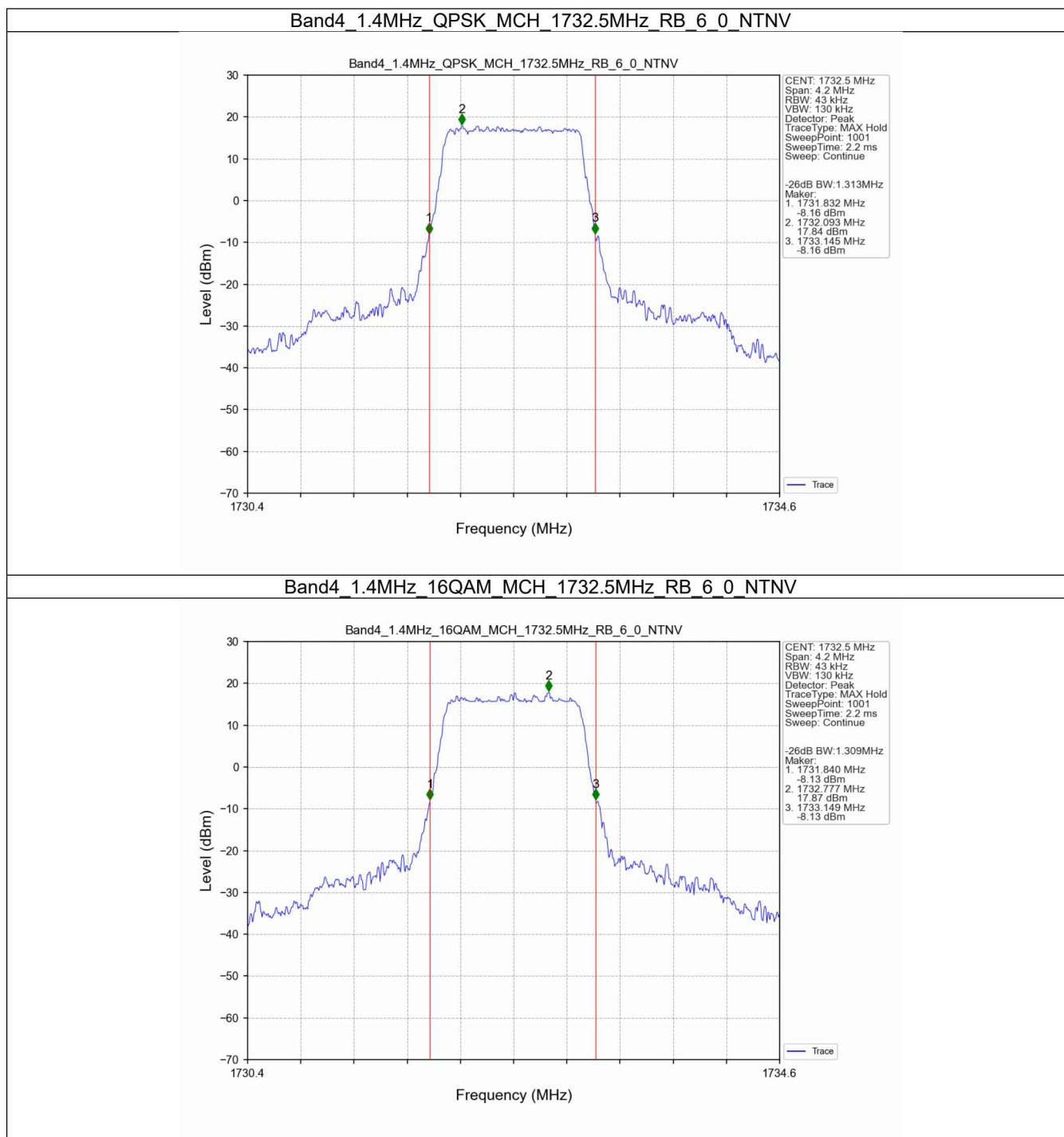
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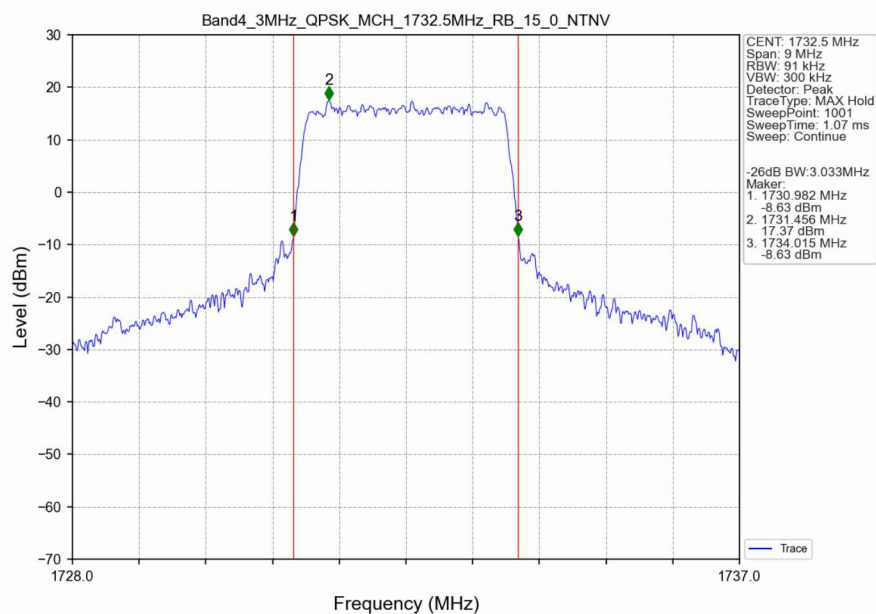
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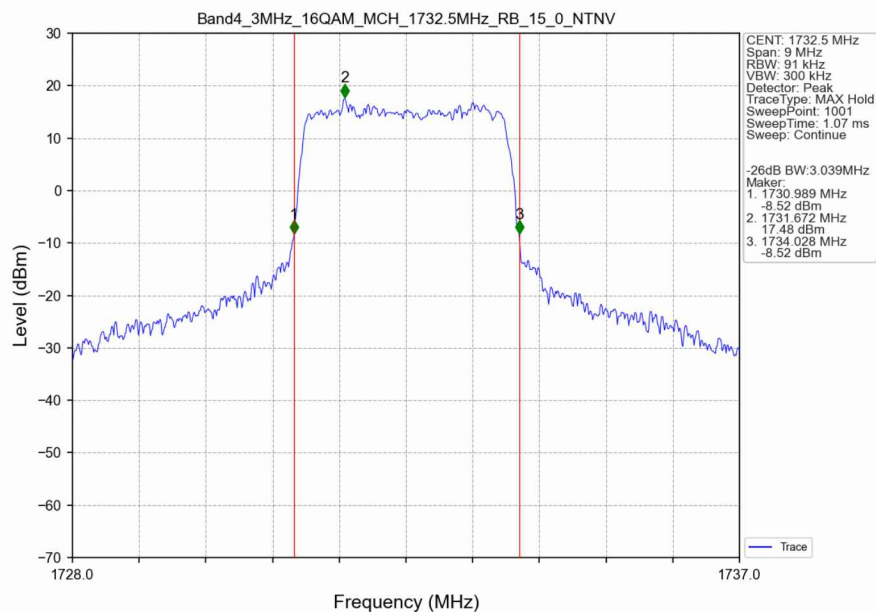
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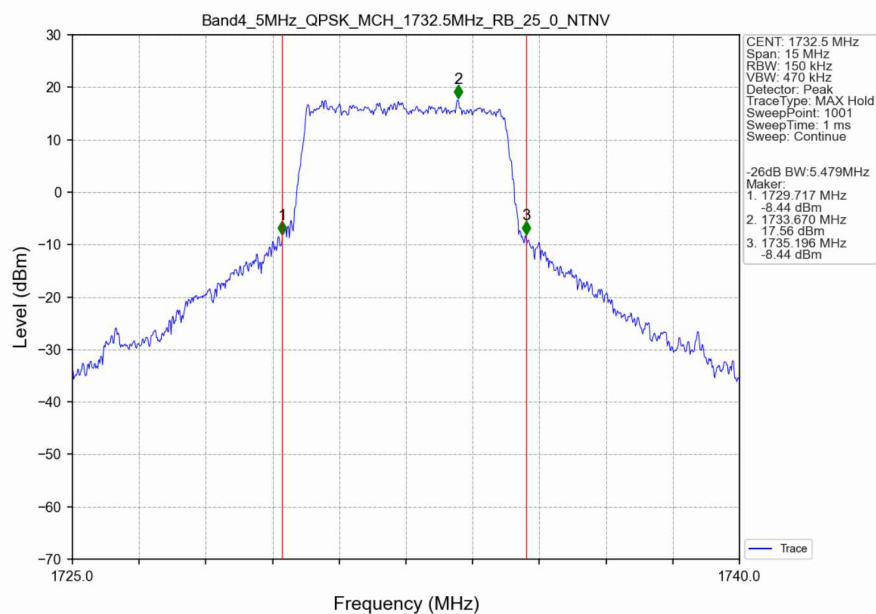
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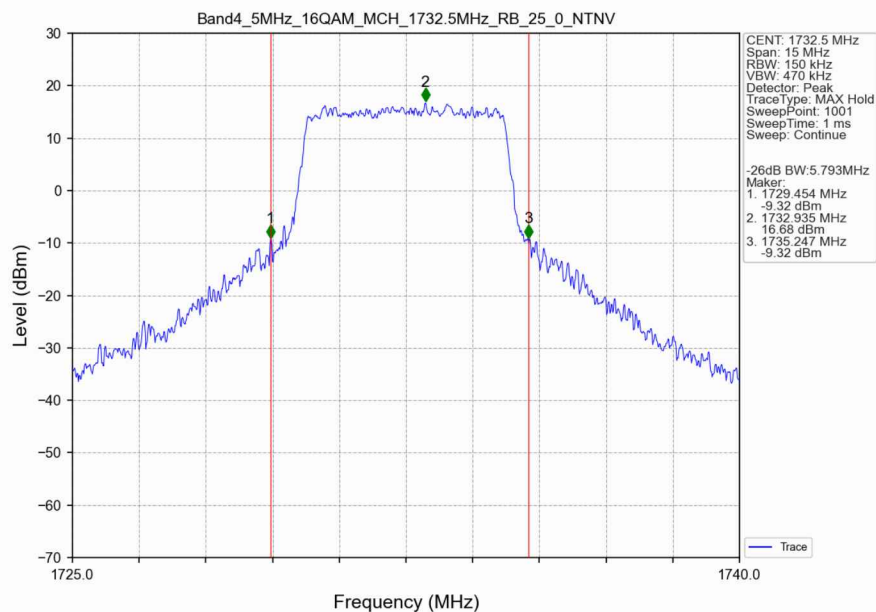
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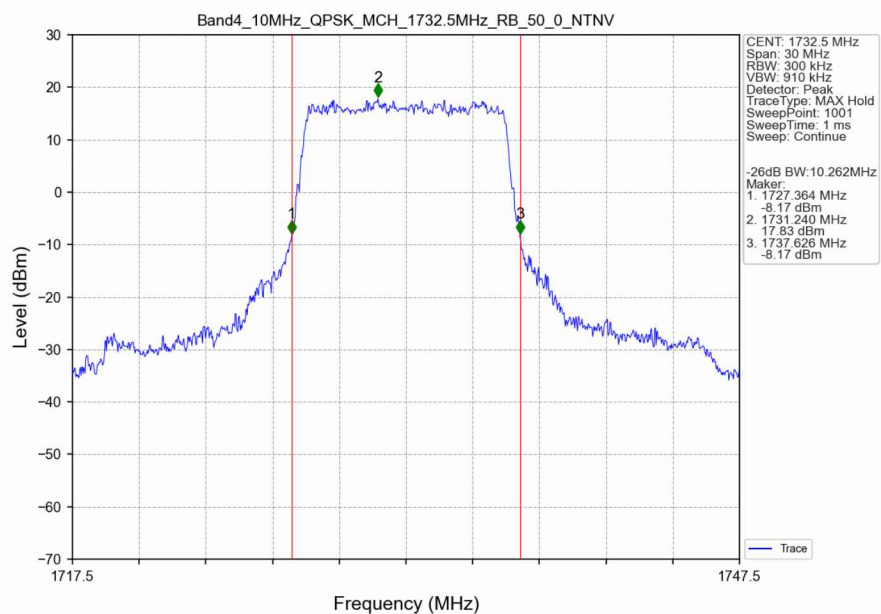
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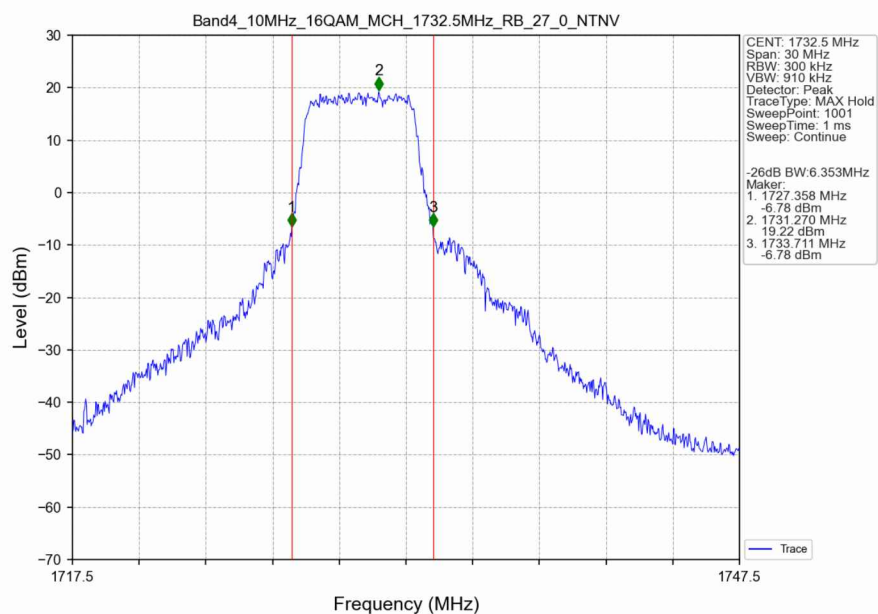
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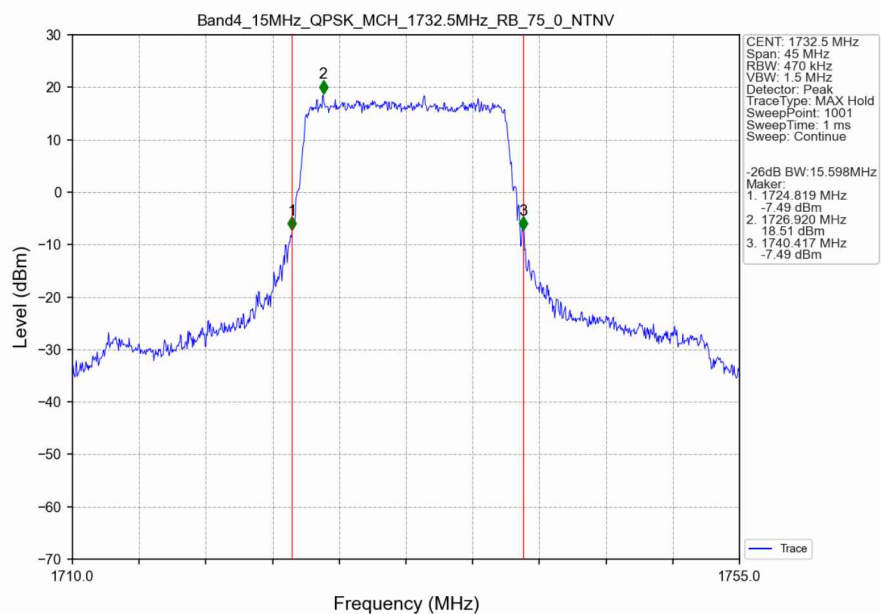
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Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV

