

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP(ANT41)

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	23.96	-1.70	22.26	<=30	Pass
			2	24.15	-1.70	22.45	<=30	Pass
			5	24.01	-1.70	22.31	<=30	Pass
		3	0	23.96	-1.70	22.26	<=30	Pass
			2	24.05	-1.70	22.35	<=30	Pass
			3	24.05	-1.70	22.35	<=30	Pass
		6	0	22.96	-1.70	21.26	<=30	Pass
	1732.5	1	0	23.99	-1.70	22.29	<=30	Pass
			2	24.15	-1.70	22.45	<=30	Pass
			5	24.08	-1.70	22.38	<=30	Pass
		3	0	24.02	-1.70	22.32	<=30	Pass
			2	24.02	-1.70	22.32	<=30	Pass
			3	24.09	-1.70	22.39	<=30	Pass
		6	0	23.03	-1.70	21.33	<=30	Pass
	1754.3	1	0	23.91	-1.70	22.21	<=30	Pass
			2	24.07	-1.70	22.37	<=30	Pass
			5	24.15	-1.70	22.45	<=30	Pass
		3	0	24.12	-1.70	22.42	<=30	Pass
			2	24.05	-1.70	22.35	<=30	Pass
			3	24.14	-1.70	22.44	<=30	Pass
		6	0	22.99	-1.70	21.29	<=30	Pass
16QAM	1710.7	1	0	22.99	-1.70	21.29	<=30	Pass
			2	22.84	-1.70	21.14	<=30	Pass
			5	22.66	-1.70	20.96	<=30	Pass
		3	0	22.61	-1.70	20.91	<=30	Pass
			2	22.69	-1.70	20.99	<=30	Pass
			3	22.56	-1.70	20.86	<=30	Pass
		6	0	22.10	-1.70	20.40	<=30	Pass
	1732.5	1	0	22.92	-1.70	21.22	<=30	Pass
			2	22.90	-1.70	21.20	<=30	Pass
			5	22.79	-1.70	21.09	<=30	Pass
		3	0	22.66	-1.70	20.96	<=30	Pass
			2	22.71	-1.70	21.01	<=30	Pass
			3	22.81	-1.70	21.11	<=30	Pass
		6	0	22.15	-1.70	20.45	<=30	Pass
	1754.3	1	0	23.02	-1.70	21.32	<=30	Pass
			2	22.73	-1.70	21.03	<=30	Pass
			5	22.84	-1.70	21.14	<=30	Pass
		3	0	22.74	-1.70	21.04	<=30	Pass
			2	22.68	-1.70	20.98	<=30	Pass
			3	22.58	-1.70	20.88	<=30	Pass
		6	0	22.04	-1.70	20.34	<=30	Pass
64QAM	1710.7	1	0	22.57	-1.70	20.87	<=30	Pass
			2	22.59	-1.70	20.89	<=30	Pass
			5	22.55	-1.70	20.85	<=30	Pass
		3	0	22.60	-1.70	20.90	<=30	Pass
			2	22.54	-1.70	20.84	<=30	Pass
			3	22.53	-1.70	20.83	<=30	Pass
		6	0	22.02	-1.70	20.32	<=30	Pass

	1732.5	1	0	22.85	-1.70	21.15	<=30	Pass	
			2	22.64	-1.70	20.94	<=30	Pass	
			5	22.65	-1.70	20.95	<=30	Pass	
		3	0	22.61	-1.70	20.91	<=30	Pass	
			2	22.64	-1.70	20.94	<=30	Pass	
			3	22.72	-1.70	21.02	<=30	Pass	
		6	0	22.03	-1.70	20.33	<=30	Pass	
		1754.3	1	0	22.77	-1.70	21.07	<=30	Pass
				2	22.56	-1.70	20.86	<=30	Pass
	5			22.58	-1.70	20.88	<=30	Pass	
	3		0	22.63	-1.70	20.93	<=30	Pass	
			2	22.63	-1.70	20.93	<=30	Pass	
			3	22.51	-1.70	20.81	<=30	Pass	
	6		0	22.01	-1.70	20.31	<=30	Pass	
256QAM	1710.7	1	0	21.01	-1.70	19.31	<=30	Pass	
			2	21.17	-1.70	19.47	<=30	Pass	
			5	21.06	-1.70	19.36	<=30	Pass	
		3	0	21.07	-1.70	19.37	<=30	Pass	
			2	21.06	-1.70	19.36	<=30	Pass	
			3	21.14	-1.70	19.44	<=30	Pass	
		6	0	21.02	-1.70	19.32	<=30	Pass	
	1732.5	1	0	21.17	-1.70	19.47	<=30	Pass	
			2	21.36	-1.70	19.66	<=30	Pass	
			5	21.18	-1.70	19.48	<=30	Pass	
		3	0	21.02	-1.70	19.32	<=30	Pass	
			2	21.16	-1.70	19.46	<=30	Pass	
			3	21.17	-1.70	19.47	<=30	Pass	
	6	0	21.01	-1.70	19.31	<=30	Pass		
	1754.3	1	0	21.02	-1.70	19.32	<=30	Pass	
			2	21.02	-1.70	19.32	<=30	Pass	
			5	21.25	-1.70	19.55	<=30	Pass	
		3	0	21.14	-1.70	19.44	<=30	Pass	
			2	21.12	-1.70	19.42	<=30	Pass	
			3	21.01	-1.70	19.31	<=30	Pass	
		6	0	21.08	-1.70	19.38	<=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	23.91	-1.70	22.21	<=30	Pass
			7	24.10	-1.70	22.40	<=30	Pass
			14	23.96	-1.70	22.26	<=30	Pass
		8	0	23.08	-1.70	21.38	<=30	Pass
			4	23.13	-1.70	21.43	<=30	Pass
			7	23.06	-1.70	21.36	<=30	Pass
		15	0	23.03	-1.70	21.33	<=30	Pass
	1732.5	1	0	24.10	-1.70	22.40	<=30	Pass
			7	24.18	-1.70	22.48	<=30	Pass
			14	24.11	-1.70	22.41	<=30	Pass
		8	0	23.02	-1.70	21.32	<=30	Pass
			4	23.03	-1.70	21.33	<=30	Pass
			7	23.18	-1.70	21.48	<=30	Pass

	1753.5	15	0	23.10	-1.70	21.40	<=30	Pass
		1	0	23.92	-1.70	22.22	<=30	Pass
			7	24.12	-1.70	22.42	<=30	Pass
			14	24.12	-1.70	22.42	<=30	Pass
		8	0	23.11	-1.70	21.41	<=30	Pass
			4	23.05	-1.70	21.35	<=30	Pass
			7	23.07	-1.70	21.37	<=30	Pass
		15	0	23.05	-1.70	21.35	<=30	Pass
16QAM	1711.5	1	0	23.51	-1.70	21.81	<=30	Pass
			7	23.43	-1.70	21.73	<=30	Pass
			14	23.16	-1.70	21.46	<=30	Pass
		8	0	22.10	-1.70	20.40	<=30	Pass
			4	22.13	-1.70	20.43	<=30	Pass
			7	22.17	-1.70	20.47	<=30	Pass
		15	0	22.04	-1.70	20.34	<=30	Pass
	1732.5	1	0	23.47	-1.70	21.77	<=30	Pass
			7	23.43	-1.70	21.73	<=30	Pass
			14	23.40	-1.70	21.70	<=30	Pass
		8	0	22.23	-1.70	20.53	<=30	Pass
			4	22.15	-1.70	20.45	<=30	Pass
			7	22.24	-1.70	20.54	<=30	Pass
		15	0	22.05	-1.70	20.35	<=30	Pass
	1753.5	1	0	23.36	-1.70	21.66	<=30	Pass
			7	23.49	-1.70	21.79	<=30	Pass
			14	23.46	-1.70	21.76	<=30	Pass
		8	0	22.15	-1.70	20.45	<=30	Pass
			4	22.14	-1.70	20.44	<=30	Pass
			7	22.15	-1.70	20.45	<=30	Pass
		15	0	22.04	-1.70	20.34	<=30	Pass
64QAM	1711.5	1	0	23.31	-1.70	21.61	<=30	Pass
			7	23.22	-1.70	21.52	<=30	Pass
			14	23.10	-1.70	21.40	<=30	Pass
		8	0	22.01	-1.70	20.31	<=30	Pass
			4	22.15	-1.70	20.45	<=30	Pass
			7	22.06	-1.70	20.36	<=30	Pass
		15	0	22.02	-1.70	20.32	<=30	Pass
	1732.5	1	0	23.24	-1.70	21.54	<=30	Pass
			7	23.33	-1.70	21.63	<=30	Pass
			14	23.25	-1.70	21.55	<=30	Pass
		8	0	22.10	-1.70	20.40	<=30	Pass
			4	22.03	-1.70	20.33	<=30	Pass
			7	22.21	-1.70	20.51	<=30	Pass
		15	0	22.15	-1.70	20.45	<=30	Pass
	1753.5	1	0	23.09	-1.70	21.39	<=30	Pass
			7	23.16	-1.70	21.46	<=30	Pass
			14	23.13	-1.70	21.43	<=30	Pass
		8	0	22.10	-1.70	20.40	<=30	Pass
			4	22.15	-1.70	20.45	<=30	Pass
			7	22.06	-1.70	20.36	<=30	Pass
		15	0	22.07	-1.70	20.37	<=30	Pass
256QAM	1711.5	1	0	21.09	-1.70	19.39	<=30	Pass
			7	21.13	-1.70	19.43	<=30	Pass
			14	21.12	-1.70	19.42	<=30	Pass
		8	0	21.01	-1.70	19.31	<=30	Pass
			4	21.12	-1.70	19.42	<=30	Pass
			7	21.17	-1.70	19.47	<=30	Pass
		15	0	20.99	-1.70	19.29	<=30	Pass
	1732.5	1	0	21.14	-1.70	19.44	<=30	Pass
			7	21.35	-1.70	19.65	<=30	Pass

		8	14	21.01	-1.70	19.31	<=30	Pass
			0	21.14	-1.70	19.44	<=30	Pass
			4	21.16	-1.70	19.46	<=30	Pass
			7	21.20	-1.70	19.50	<=30	Pass
	1753.5	15	0	21.10	-1.70	19.40	<=30	Pass
			0	21.13	-1.70	19.43	<=30	Pass
			7	21.08	-1.70	19.38	<=30	Pass
		8	14	20.98	-1.70	19.28	<=30	Pass
			0	21.14	-1.70	19.44	<=30	Pass
			4	21.16	-1.70	19.46	<=30	Pass
			7	21.15	-1.70	19.45	<=30	Pass
		15	0	21.07	-1.70	19.37	<=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 (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.98	-1.70	22.28	<=30	Pass
			13	23.99	-1.70	22.29	<=30	Pass
			24	23.98	-1.70	22.28	<=30	Pass
		12	0	23.02	-1.70	21.32	<=30	Pass
			6	23.04	-1.70	21.34	<=30	Pass
			13	23.04	-1.70	21.34	<=30	Pass
		25	0	23.08	-1.70	21.38	<=30	Pass
	1732.5	1	0	24.13	-1.70	22.43	<=30	Pass
			13	24.22	-1.70	22.52	<=30	Pass
			24	24.12	-1.70	22.42	<=30	Pass
		12	0	23.07	-1.70	21.37	<=30	Pass
			6	23.03	-1.70	21.33	<=30	Pass
			13	23.14	-1.70	21.44	<=30	Pass
		25	0	23.11	-1.70	21.41	<=30	Pass
	1752.5	1	0	24.11	-1.70	22.41	<=30	Pass
			13	24.29	-1.70	22.59	<=30	Pass
			24	24.02	-1.70	22.32	<=30	Pass
		12	0	23.09	-1.70	21.39	<=30	Pass
			6	23.16	-1.70	21.46	<=30	Pass
			13	23.04	-1.70	21.34	<=30	Pass
		25	0	23.04	-1.70	21.34	<=30	Pass
16QAM	1712.5	1	0	23.90	-1.70	22.20	<=30	Pass
			13	23.84	-1.70	22.14	<=30	Pass
			24	23.78	-1.70	22.08	<=30	Pass
		12	0	22.14	-1.70	20.44	<=30	Pass
			6	22.05	-1.70	20.35	<=30	Pass
			13	22.04	-1.70	20.34	<=30	Pass
		25	0	22.08	-1.70	20.38	<=30	Pass
	1732.5	1	0	23.96	-1.70	22.26	<=30	Pass
			13	24.18	-1.70	22.48	<=30	Pass
			24	23.92	-1.70	22.22	<=30	Pass
		12	0	22.18	-1.70	20.48	<=30	Pass
			6	22.17	-1.70	20.47	<=30	Pass
			13	22.13	-1.70	20.43	<=30	Pass
		25	0	21.70	-1.70	20.00	<=30	Pass
	1752.5	1	0	23.85	-1.70	22.15	<=30	Pass

			13	24.00	-1.70	22.30	<=30	Pass	
			24	23.80	-1.70	22.10	<=30	Pass	
		12	0	22.15	-1.70	20.45	<=30	Pass	
			6	22.17	-1.70	20.47	<=30	Pass	
			13	22.06	-1.70	20.36	<=30	Pass	
		25	0	22.10	-1.70	20.40	<=30	Pass	
64QAM	1712.5	1	0	23.65	-1.70	21.95	<=30	Pass	
			13	23.76	-1.70	22.06	<=30	Pass	
			24	23.58	-1.70	21.88	<=30	Pass	
		12	0	22.03	-1.70	20.33	<=30	Pass	
			6	22.09	-1.70	20.39	<=30	Pass	
			13	22.07	-1.70	20.37	<=30	Pass	
		25	0	22.07	-1.70	20.37	<=30	Pass	
		1732.5	1	0	23.73	-1.70	22.03	<=30	Pass
				13	23.88	-1.70	22.18	<=30	Pass
	24			23.82	-1.70	22.12	<=30	Pass	
	12		0	22.07	-1.70	20.37	<=30	Pass	
			6	22.15	-1.70	20.45	<=30	Pass	
			13	22.23	-1.70	20.53	<=30	Pass	
	25		0	22.14	-1.70	20.44	<=30	Pass	
	1752.5		1	0	23.90	-1.70	22.20	<=30	Pass
				13	23.88	-1.70	22.18	<=30	Pass
		24		23.72	-1.70	22.02	<=30	Pass	
		12	0	22.03	-1.70	20.33	<=30	Pass	
			6	22.15	-1.70	20.45	<=30	Pass	
			13	22.06	-1.70	20.36	<=30	Pass	
		25	0	22.11	-1.70	20.41	<=30	Pass	
256QAM		1712.5	1	0	21.18	-1.70	19.48	<=30	Pass
				13	21.15	-1.70	19.45	<=30	Pass
	24			21.01	-1.70	19.31	<=30	Pass	
	12		0	20.94	-1.70	19.24	<=30	Pass	
			6	21.11	-1.70	19.41	<=30	Pass	
			13	21.08	-1.70	19.38	<=30	Pass	
	25		0	21.07	-1.70	19.37	<=30	Pass	
	1732.5		1	0	21.03	-1.70	19.33	<=30	Pass
				13	21.30	-1.70	19.60	<=30	Pass
		24		21.25	-1.70	19.55	<=30	Pass	
		12	0	21.13	-1.70	19.43	<=30	Pass	
			6	21.02	-1.70	19.32	<=30	Pass	
			13	21.17	-1.70	19.47	<=30	Pass	
		25	0	21.06	-1.70	19.36	<=30	Pass	
		1752.5	1	0	21.19	-1.70	19.49	<=30	Pass
				13	21.17	-1.70	19.47	<=30	Pass
	24			21.05	-1.70	19.35	<=30	Pass	
	12		0	21.09	-1.70	19.39	<=30	Pass	
			6	21.19	-1.70	19.49	<=30	Pass	
			13	21.09	-1.70	19.39	<=30	Pass	
	25		0	21.12	-1.70	19.42	<=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	23.92	-1.70	22.22	<=30	Pass
			25	23.98	-1.70	22.28	<=30	Pass
			49	23.96	-1.70	22.26	<=30	Pass
		25	0	23.00	-1.70	21.30	<=30	Pass
			13	23.04	-1.70	21.34	<=30	Pass
			25	23.04	-1.70	21.34	<=30	Pass
		50	0	23.03	-1.70	21.33	<=30	Pass
	1732.5	1	0	24.29	-1.70	22.59	<=30	Pass
			25	24.18	-1.70	22.48	<=30	Pass
			49	24.01	-1.70	22.31	<=30	Pass
		25	0	23.10	-1.70	21.40	<=30	Pass
			13	23.09	-1.70	21.39	<=30	Pass
			25	23.15	-1.70	21.45	<=30	Pass
		50	0	23.08	-1.70	21.38	<=30	Pass
	1750	1	0	24.15	-1.70	22.45	<=30	Pass
			25	24.11	-1.70	22.41	<=30	Pass
			49	23.96	-1.70	22.26	<=30	Pass
		25	0	23.13	-1.70	21.43	<=30	Pass
			13	23.18	-1.70	21.48	<=30	Pass
			25	23.07	-1.70	21.37	<=30	Pass
		50	0	23.06	-1.70	21.36	<=30	Pass
16QAM	1715	1	0	23.73	-1.70	22.03	<=30	Pass
			25	23.91	-1.70	22.21	<=30	Pass
			49	23.77	-1.70	22.07	<=30	Pass
		25	0	22.01	-1.70	20.31	<=30	Pass
			13	22.04	-1.70	20.34	<=30	Pass
			25	22.09	-1.70	20.39	<=30	Pass
		50	0	22.01	-1.70	20.31	<=30	Pass
	1732.5	1	0	23.96	-1.70	22.26	<=30	Pass
			25	23.83	-1.70	22.13	<=30	Pass
			49	24.08	-1.70	22.38	<=30	Pass
		25	0	22.12	-1.70	20.42	<=30	Pass
			13	22.17	-1.70	20.47	<=30	Pass
			25	22.19	-1.70	20.49	<=30	Pass
		50	0	22.08	-1.70	20.38	<=30	Pass
	1750	1	0	24.08	-1.70	22.38	<=30	Pass
			25	23.80	-1.70	22.10	<=30	Pass
			49	23.93	-1.70	22.23	<=30	Pass
		25	0	22.12	-1.70	20.42	<=30	Pass
			13	22.17	-1.70	20.47	<=30	Pass
			25	22.16	-1.70	20.46	<=30	Pass
		50	0	22.07	-1.70	20.37	<=30	Pass
64QAM	1715	1	0	23.44	-1.70	21.74	<=30	Pass
			25	23.64	-1.70	21.94	<=30	Pass
			49	23.66	-1.70	21.96	<=30	Pass
		25	0	22.07	-1.70	20.37	<=30	Pass
			13	22.08	-1.70	20.38	<=30	Pass
			25	22.09	-1.70	20.39	<=30	Pass
		50	0	22.03	-1.70	20.33	<=30	Pass
	1732.5	1	0	23.66	-1.70	21.96	<=30	Pass
			25	23.83	-1.70	22.13	<=30	Pass
			49	23.61	-1.70	21.91	<=30	Pass
		25	0	22.09	-1.70	20.39	<=30	Pass
			13	22.17	-1.70	20.47	<=30	Pass
			25	22.17	-1.70	20.47	<=30	Pass
		50	0	22.19	-1.70	20.49	<=30	Pass
	1750	1	0	23.48	-1.70	21.78	<=30	Pass
			25	23.76	-1.70	22.06	<=30	Pass
			49	23.74	-1.70	22.04	<=30	Pass

		25	0	22.12	-1.70	20.42	<=30	Pass	
			13	22.15	-1.70	20.45	<=30	Pass	
			25	22.08	-1.70	20.38	<=30	Pass	
		50	0	22.08	-1.70	20.38	<=30	Pass	
256QAM	1715	1	0	21.16	-1.70	19.46	<=30	Pass	
			25	21.21	-1.70	19.51	<=30	Pass	
			49	21.14	-1.70	19.44	<=30	Pass	
		25	0	21.05	-1.70	19.35	<=30	Pass	
			13	21.09	-1.70	19.39	<=30	Pass	
			25	21.08	-1.70	19.38	<=30	Pass	
		50	0	21.01	-1.70	19.31	<=30	Pass	
		1732.5	1	0	21.14	-1.70	19.44	<=30	Pass
				25	21.22	-1.70	19.52	<=30	Pass
	49			21.16	-1.70	19.46	<=30	Pass	
	25		0	21.14	-1.70	19.44	<=30	Pass	
			13	21.09	-1.70	19.39	<=30	Pass	
			25	21.18	-1.70	19.48	<=30	Pass	
	50		0	21.09	-1.70	19.39	<=30	Pass	
	1750		1	0	21.17	-1.70	19.47	<=30	Pass
				25	21.21	-1.70	19.51	<=30	Pass
		49		21.09	-1.70	19.39	<=30	Pass	
		25	0	21.07	-1.70	19.37	<=30	Pass	
			13	21.18	-1.70	19.48	<=30	Pass	
			25	21.07	-1.70	19.37	<=30	Pass	
		50	0	21.06	-1.70	19.36	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.5 B4_15MHz_EIRP

1.5.1 Test Result

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	23.70	-1.70	22.00	<=30	Pass
			38	23.81	-1.70	22.11	<=30	Pass
			74	23.76	-1.70	22.06	<=30	Pass
		36	0	22.87	-1.70	21.17	<=30	Pass
			18	22.95	-1.70	21.25	<=30	Pass
			39	22.96	-1.70	21.26	<=30	Pass
		75	0	22.96	-1.70	21.26	<=30	Pass
	1732.5	1	0	23.84	-1.70	22.14	<=30	Pass
			38	23.76	-1.70	22.06	<=30	Pass
			74	23.87	-1.70	22.17	<=30	Pass
		36	0	22.97	-1.70	21.27	<=30	Pass
			18	22.96	-1.70	21.26	<=30	Pass
			39	23.01	-1.70	21.31	<=30	Pass
		75	0	22.94	-1.70	21.24	<=30	Pass
	1747.5	1	0	23.86	-1.70	22.16	<=30	Pass
			38	23.77	-1.70	22.07	<=30	Pass
			74	23.85	-1.70	22.15	<=30	Pass
		36	0	22.93	-1.70	21.23	<=30	Pass
			18	22.98	-1.70	21.28	<=30	Pass
			39	23.04	-1.70	21.34	<=30	Pass
		75	0	22.94	-1.70	21.24	<=30	Pass
16QAM	1717.5	1	0	23.39	-1.70	21.69	<=30	Pass
			38	24.03	-1.70	22.33	<=30	Pass

		36	74	23.65	-1.70	21.95	<=30	Pass
			0	21.85	-1.70	20.15	<=30	Pass
			18	21.97	-1.70	20.27	<=30	Pass
			39	21.95	-1.70	20.25	<=30	Pass
		75	0	21.94	-1.70	20.24	<=30	Pass
	1732.5	1	0	23.60	-1.70	21.90	<=30	Pass
			38	23.96	-1.70	22.26	<=30	Pass
			74	23.52	-1.70	21.82	<=30	Pass
		36	0	21.92	-1.70	20.22	<=30	Pass
			18	21.97	-1.70	20.27	<=30	Pass
			39	22.12	-1.70	20.42	<=30	Pass
		75	0	21.93	-1.70	20.23	<=30	Pass
	1747.5	1	0	23.68	-1.70	21.98	<=30	Pass
			38	23.91	-1.70	22.21	<=30	Pass
			74	23.63	-1.70	21.93	<=30	Pass
		36	0	22.01	-1.70	20.31	<=30	Pass
			18	21.96	-1.70	20.26	<=30	Pass
			39	22.03	-1.70	20.33	<=30	Pass
		75	0	21.95	-1.70	20.25	<=30	Pass
64QAM	1717.5	1	0	23.53	-1.70	21.83	<=30	Pass
			38	23.69	-1.70	21.99	<=30	Pass
			74	23.81	-1.70	22.11	<=30	Pass
		36	0	21.81	-1.70	20.11	<=30	Pass
			18	21.94	-1.70	20.24	<=30	Pass
			39	21.93	-1.70	20.23	<=30	Pass
		75	0	21.91	-1.70	20.21	<=30	Pass
	1732.5	1	0	23.26	-1.70	21.56	<=30	Pass
			38	23.55	-1.70	21.85	<=30	Pass
			74	23.62	-1.70	21.92	<=30	Pass
		36	0	21.92	-1.70	20.22	<=30	Pass
			18	22.04	-1.70	20.34	<=30	Pass
			39	22.09	-1.70	20.39	<=30	Pass
		75	0	22.00	-1.70	20.30	<=30	Pass
	1747.5	1	0	23.48	-1.70	21.78	<=30	Pass
			38	23.46	-1.70	21.76	<=30	Pass
			74	23.44	-1.70	21.74	<=30	Pass
		36	0	21.96	-1.70	20.26	<=30	Pass
			18	21.97	-1.70	20.27	<=30	Pass
			39	22.03	-1.70	20.33	<=30	Pass
		75	0	22.01	-1.70	20.31	<=30	Pass
256QAM	1717.5	1	0	20.84	-1.70	19.14	<=30	Pass
			38	21.09	-1.70	19.39	<=30	Pass
			74	21.11	-1.70	19.41	<=30	Pass
		36	0	20.77	-1.70	19.07	<=30	Pass
			18	20.92	-1.70	19.22	<=30	Pass
			39	20.87	-1.70	19.17	<=30	Pass
		75	0	20.92	-1.70	19.22	<=30	Pass
	1732.5	1	0	21.13	-1.70	19.43	<=30	Pass
			38	20.98	-1.70	19.28	<=30	Pass
			74	21.02	-1.70	19.32	<=30	Pass
		36	0	20.90	-1.70	19.20	<=30	Pass
			18	20.97	-1.70	19.27	<=30	Pass
			39	21.11	-1.70	19.41	<=30	Pass
		75	0	20.88	-1.70	19.18	<=30	Pass
	1747.5	1	0	20.92	-1.70	19.22	<=30	Pass
			38	21.08	-1.70	19.38	<=30	Pass
			74	21.19	-1.70	19.49	<=30	Pass
		36	0	20.96	-1.70	19.26	<=30	Pass
			18	20.95	-1.70	19.25	<=30	Pass

			39	20.94	-1.70	19.24	<=30	Pass
		75	0	20.92	-1.70	19.22	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	23.78	-1.70	22.08	<=30	Pass
			50	23.81	-1.70	22.11	<=30	Pass
			99	23.87	-1.70	22.17	<=30	Pass
		50	0	22.83	-1.70	21.13	<=30	Pass
			25	22.99	-1.70	21.29	<=30	Pass
			50	23.03	-1.70	21.33	<=30	Pass
		100	0	22.93	-1.70	21.23	<=30	Pass
	1732.5	1	0	23.71	-1.70	22.01	<=30	Pass
			50	24.19	-1.70	22.49	<=30	Pass
			99	23.73	-1.70	22.03	<=30	Pass
		50	0	22.94	-1.70	21.24	<=30	Pass
			25	23.00	-1.70	21.30	<=30	Pass
			50	23.02	-1.70	21.32	<=30	Pass
		100	0	23.01	-1.70	21.31	<=30	Pass
	1745	1	0	23.83	-1.70	22.13	<=30	Pass
			50	24.36	-1.70	22.66	<=30	Pass
			99	23.75	-1.70	22.05	<=30	Pass
		50	0	23.01	-1.70	21.31	<=30	Pass
			25	23.09	-1.70	21.39	<=30	Pass
			50	23.02	-1.70	21.32	<=30	Pass
		100	0	23.01	-1.70	21.31	<=30	Pass
16QAM	1720	1	0	23.66	-1.70	21.96	<=30	Pass
			50	23.67	-1.70	21.97	<=30	Pass
			99	23.63	-1.70	21.93	<=30	Pass
		50	0	21.82	-1.70	20.12	<=30	Pass
			25	21.98	-1.70	20.28	<=30	Pass
			50	22.04	-1.70	20.34	<=30	Pass
		100	0	21.91	-1.70	20.21	<=30	Pass
	1732.5	1	0	23.67	-1.70	21.97	<=30	Pass
			50	23.76	-1.70	22.06	<=30	Pass
			99	23.69	-1.70	21.99	<=30	Pass
		50	0	22.01	-1.70	20.31	<=30	Pass
			25	22.07	-1.70	20.37	<=30	Pass
			50	22.12	-1.70	20.42	<=30	Pass
		100	0	21.98	-1.70	20.28	<=30	Pass
	1745	1	0	23.81	-1.70	22.11	<=30	Pass
			50	23.38	-1.70	21.68	<=30	Pass
			99	23.95	-1.70	22.25	<=30	Pass
		50	0	21.98	-1.70	20.28	<=30	Pass
			25	22.07	-1.70	20.37	<=30	Pass
			50	22.04	-1.70	20.34	<=30	Pass
		100	0	22.00	-1.70	20.30	<=30	Pass
64QAM	1720	1	0	23.52	-1.70	21.82	<=30	Pass
			50	23.44	-1.70	21.74	<=30	Pass
			99	23.77	-1.70	22.07	<=30	Pass
		50	0	21.85	-1.70	20.15	<=30	Pass

			25	21.99	-1.70	20.29	<=30	Pass
			50	22.05	-1.70	20.35	<=30	Pass
		100	0	21.93	-1.70	20.23	<=30	Pass
	1732.5	1	0	23.45	-1.70	21.75	<=30	Pass
			50	23.40	-1.70	21.70	<=30	Pass
			99	23.51	-1.70	21.81	<=30	Pass
		50	0	21.92	-1.70	20.22	<=30	Pass
			25	21.98	-1.70	20.28	<=30	Pass
			50	22.01	-1.70	20.31	<=30	Pass
		100	0	22.02	-1.70	20.32	<=30	Pass
	1745	1	0	23.48	-1.70	21.78	<=30	Pass
			50	23.57	-1.70	21.87	<=30	Pass
			99	23.43	-1.70	21.73	<=30	Pass
		50	0	22.08	-1.70	20.38	<=30	Pass
			25	22.07	-1.70	20.37	<=30	Pass
			50	22.01	-1.70	20.31	<=30	Pass
		100	0	22.01	-1.70	20.31	<=30	Pass
256QAM	1720	1	0	20.94	-1.70	19.24	<=30	Pass
			50	21.00	-1.70	19.30	<=30	Pass
			99	21.28	-1.70	19.58	<=30	Pass
		50	0	20.82	-1.70	19.12	<=30	Pass
			25	20.98	-1.70	19.28	<=30	Pass
			50	20.92	-1.70	19.22	<=30	Pass
	100	0	20.94	-1.70	19.24	<=30	Pass	
	1732.5	1	0	20.94	-1.70	19.24	<=30	Pass
			50	20.91	-1.70	19.21	<=30	Pass
			99	21.05	-1.70	19.35	<=30	Pass
		50	0	20.93	-1.70	19.23	<=30	Pass
			25	20.91	-1.70	19.21	<=30	Pass
			50	21.02	-1.70	19.32	<=30	Pass
	100	0	20.91	-1.70	19.21	<=30	Pass	
	1745	1	0	21.08	-1.70	19.38	<=30	Pass
			50	21.07	-1.70	19.37	<=30	Pass
			99	20.99	-1.70	19.29	<=30	Pass
		50	0	20.98	-1.70	19.28	<=30	Pass
			25	20.96	-1.70	19.26	<=30	Pass
			50	20.98	-1.70	19.28	<=30	Pass
		100	0	21.00	-1.70	19.30	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 B4_20MHz

2.1.1 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	3.6	-2.700	-0.0016	/	Pass
					3.86	-2.900	-0.0017	/	Pass
					4.3	-1.700	-0.0010	/	Pass
				-30	3.86	-2.900	-0.0017	/	Pass
				-20	3.86	-3.500	-0.0020	/	Pass
				-10	3.86	-3.900	-0.0023	/	Pass
				0	3.86	-3.800	-0.0022	/	Pass

				10	3.86	-2.400	-0.0014	/	Pass
				30	3.86	-2.200	-0.0013	/	Pass
				40	3.86	-2.100	-0.0012	/	Pass
				50	3.86	-4.200	-0.0024	/	Pass
	1732.5	100	0	20	3.6	-3.100	-0.0018	/	Pass
					3.86	-2.800	-0.0016	/	Pass
					4.3	-2.300	-0.0013	/	Pass
				-30	3.86	-1.900	-0.0011	/	Pass
				-20	3.86	-2.600	-0.0015	/	Pass
				-10	3.86	-1.600	-0.0009	/	Pass
				0	3.86	-0.400	-0.0002	/	Pass
				10	3.86	-1.300	-0.0008	/	Pass
				30	3.86	-2.500	-0.0014	/	Pass
				40	3.86	-2.300	-0.0013	/	Pass
				50	3.86	-0.600	-0.0003	/	Pass
	1745	100	0	20	3.6	-2.700	-0.0015	/	Pass
					3.86	-1.100	-0.0006	/	Pass
					4.3	-3.600	-0.0021	/	Pass
				-30	3.86	-2.500	-0.0014	/	Pass
				-20	3.86	-1.000	-0.0006	/	Pass
				-10	3.86	-2.500	-0.0014	/	Pass
				0	3.86	-2.000	-0.0011	/	Pass
				10	3.86	-2.300	-0.0013	/	Pass
				30	3.86	-2.100	-0.0012	/	Pass
				40	3.86	-0.800	-0.0005	/	Pass
				50	3.86	-2.200	-0.0013	/	Pass

3. 99% & 26dB Bandwidth

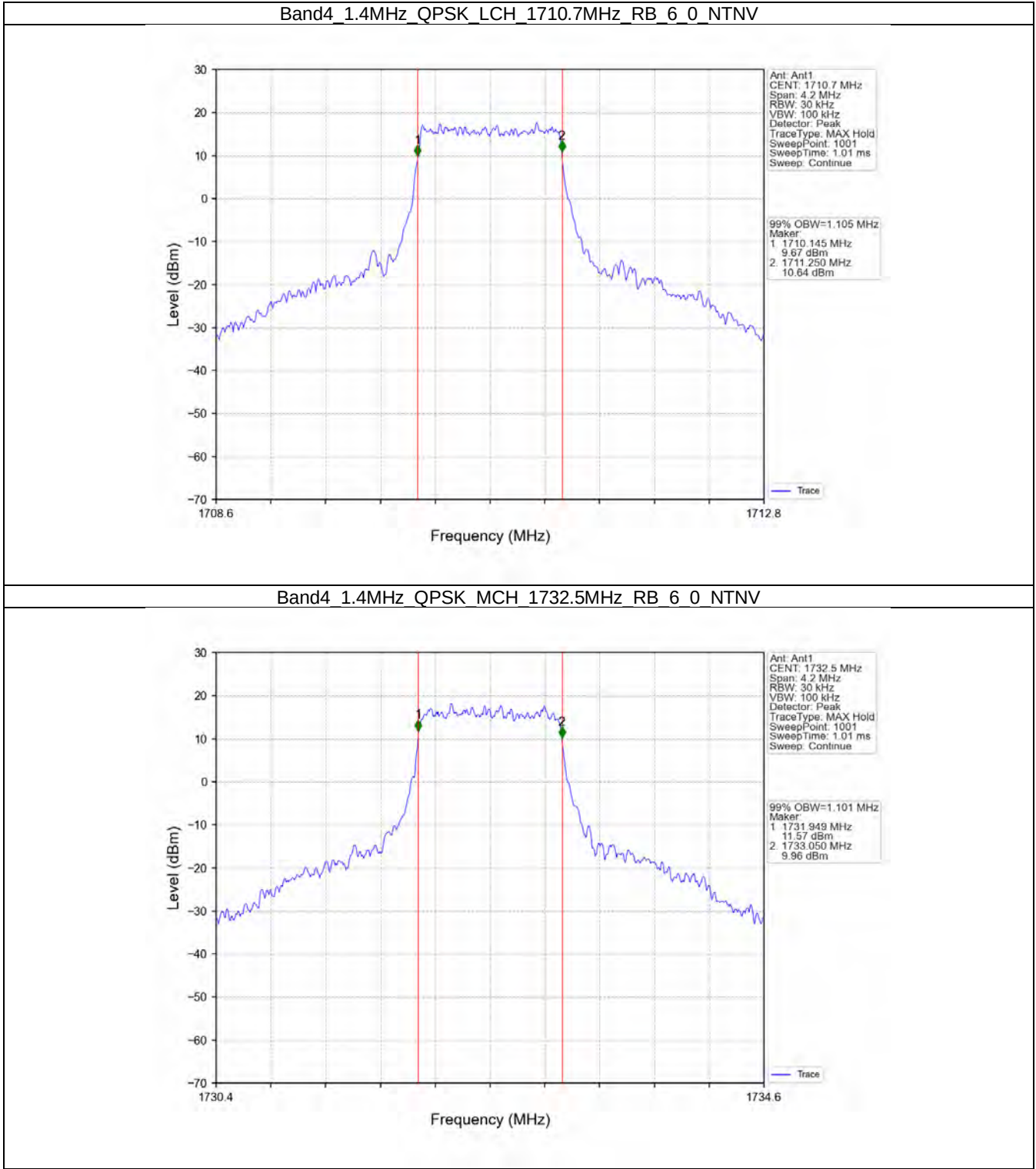
3.1 Band4_OBW

3.1.1 Test Result

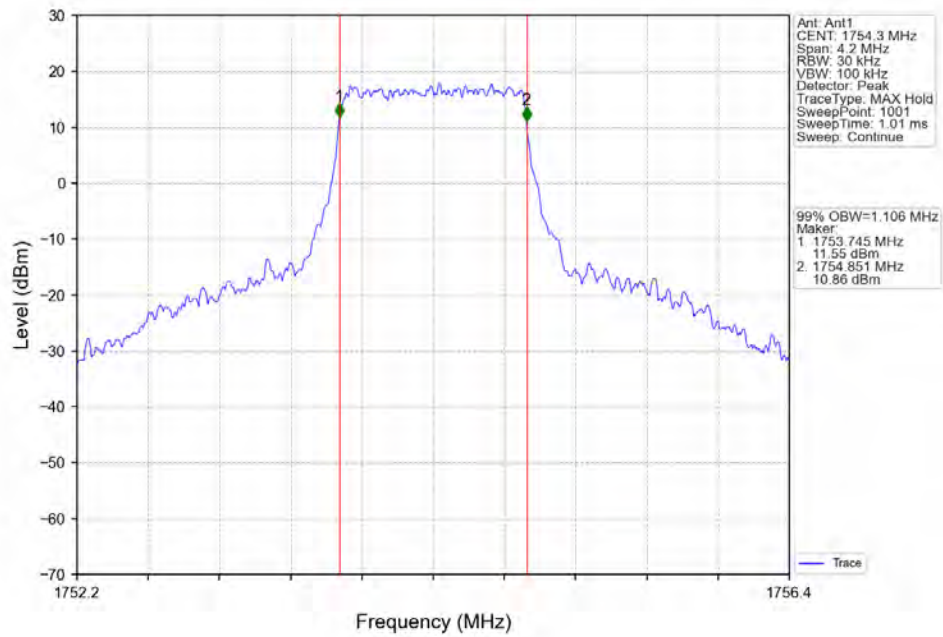
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.105	/	Pass
		1732.5	6	0	1.101	/	Pass
		1754.3	6	0	1.106	/	Pass
	16QAM	1710.7	6	0	1.114	/	Pass
		1732.5	6	0	1.102	/	Pass
		1754.3	6	0	1.107	/	Pass
	64QAM	1710.7	6	0	1.106	/	Pass
		1732.5	6	0	1.100	/	Pass
		1754.3	6	0	1.107	/	Pass
	256QAM	1710.7	6	0	1.101	/	Pass
		1732.5	6	0	1.100	/	Pass
		1754.3	6	0	1.112	/	Pass
3	QPSK	1711.5	15	0	2.744	/	Pass
		1732.5	15	0	2.747	/	Pass
		1753.5	15	0	2.741	/	Pass
	16QAM	1711.5	15	0	2.744	/	Pass
		1732.5	15	0	2.748	/	Pass
		1753.5	15	0	2.748	/	Pass
	64QAM	1711.5	15	0	2.746	/	Pass
		1732.5	15	0	2.739	/	Pass

	256QAM	1753.5	15	0	2.756	/	Pass
		1711.5	15	0	2.739	/	Pass
		1732.5	15	0	2.742	/	Pass
		1753.5	15	0	2.738	/	Pass
5	QPSK	1712.5	25	0	4.532	/	Pass
		1732.5	25	0	4.492	/	Pass
		1752.5	25	0	4.532	/	Pass
	16QAM	1712.5	25	0	4.520	/	Pass
		1732.5	25	0	4.510	/	Pass
		1752.5	25	0	4.523	/	Pass
	64QAM	1712.5	25	0	4.518	/	Pass
		1732.5	25	0	4.510	/	Pass
		1752.5	25	0	4.515	/	Pass
	256QAM	1712.5	25	0	4.513	/	Pass
		1732.5	25	0	4.518	/	Pass
		1752.5	25	0	4.508	/	Pass
10	QPSK	1715	50	0	9.035	/	Pass
		1732.5	50	0	9.031	/	Pass
		1750	50	0	9.017	/	Pass
	16QAM	1715	50	0	9.050	/	Pass
		1732.5	50	0	9.014	/	Pass
		1750	50	0	9.005	/	Pass
	64QAM	1715	50	0	9.022	/	Pass
		1732.5	50	0	8.988	/	Pass
		1750	50	0	9.019	/	Pass
	256QAM	1715	50	0	9.034	/	Pass
		1732.5	50	0	9.001	/	Pass
		1750	50	0	8.980	/	Pass
15	QPSK	1717.5	75	0	13.550	/	Pass
		1732.5	75	0	13.533	/	Pass
		1747.5	75	0	13.525	/	Pass
	16QAM	1717.5	75	0	13.529	/	Pass
		1732.5	75	0	13.522	/	Pass
		1747.5	75	0	13.547	/	Pass
	64QAM	1717.5	75	0	13.520	/	Pass
		1732.5	75	0	13.522	/	Pass
		1747.5	75	0	13.540	/	Pass
	256QAM	1717.5	75	0	13.548	/	Pass
		1732.5	75	0	13.508	/	Pass
		1747.5	75	0	13.471	/	Pass
20	QPSK	1720	100	0	18.077	/	Pass
		1732.5	100	0	18.072	/	Pass
		1745	100	0	18.087	/	Pass
	16QAM	1720	100	0	18.086	/	Pass
		1732.5	100	0	18.130	/	Pass
		1745	100	0	18.076	/	Pass
	64QAM	1720	100	0	18.088	/	Pass
		1732.5	100	0	18.087	/	Pass
		1745	100	0	18.052	/	Pass
	256QAM	1720	100	0	18.106	/	Pass
		1732.5	100	0	18.063	/	Pass
		1745	100	0	18.075	/	Pass

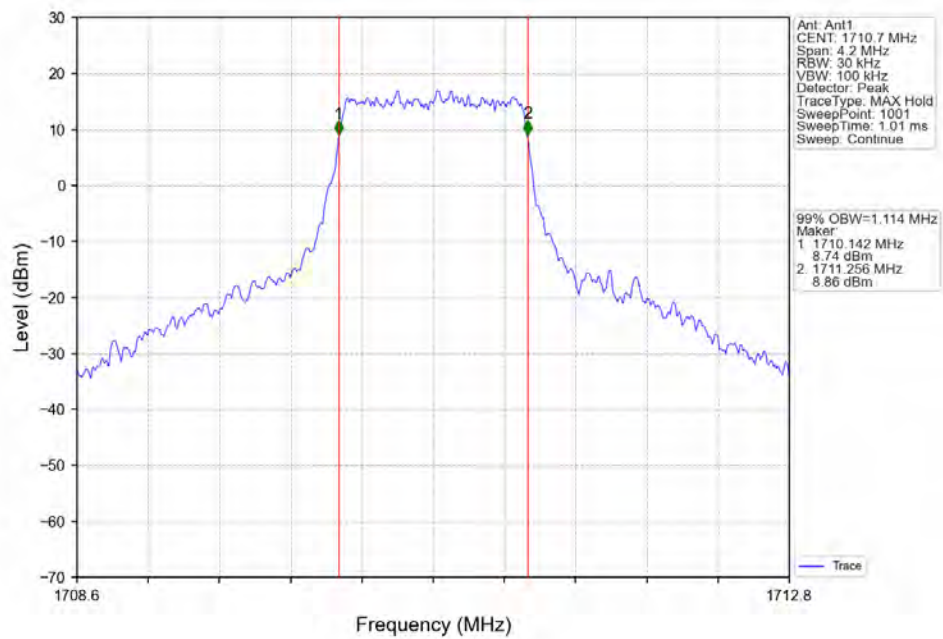
3.1.2 Test Graph



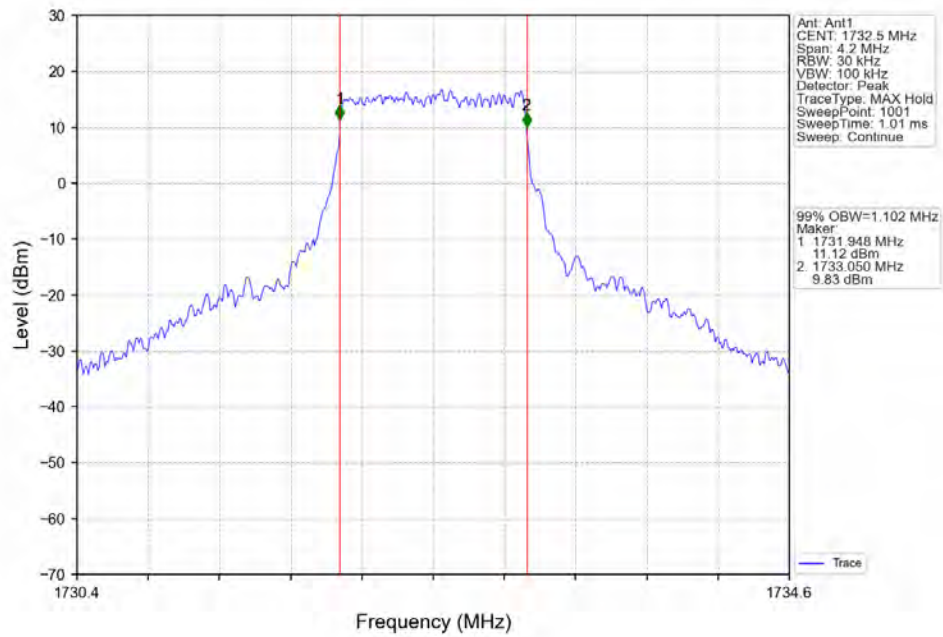
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



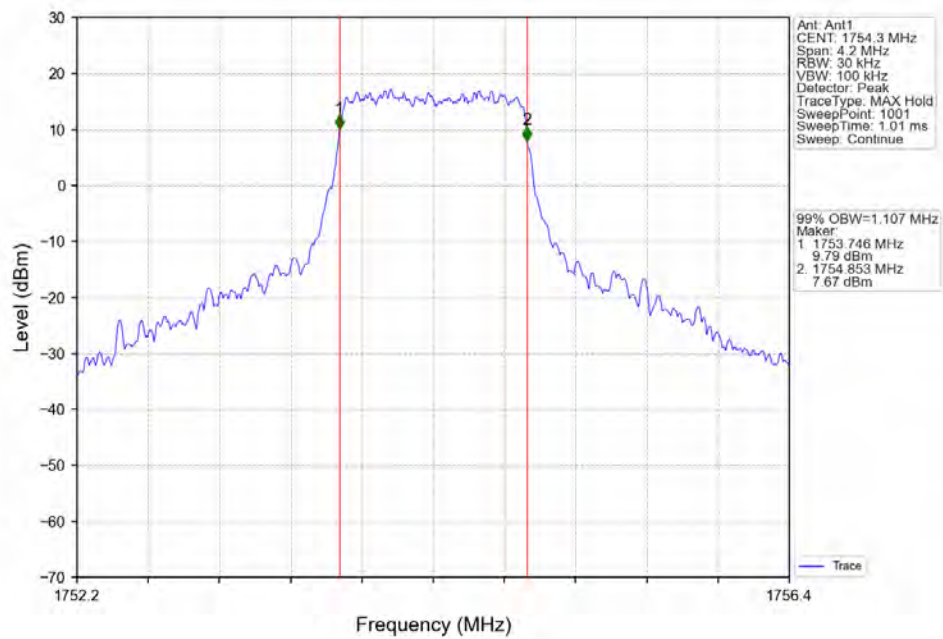
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



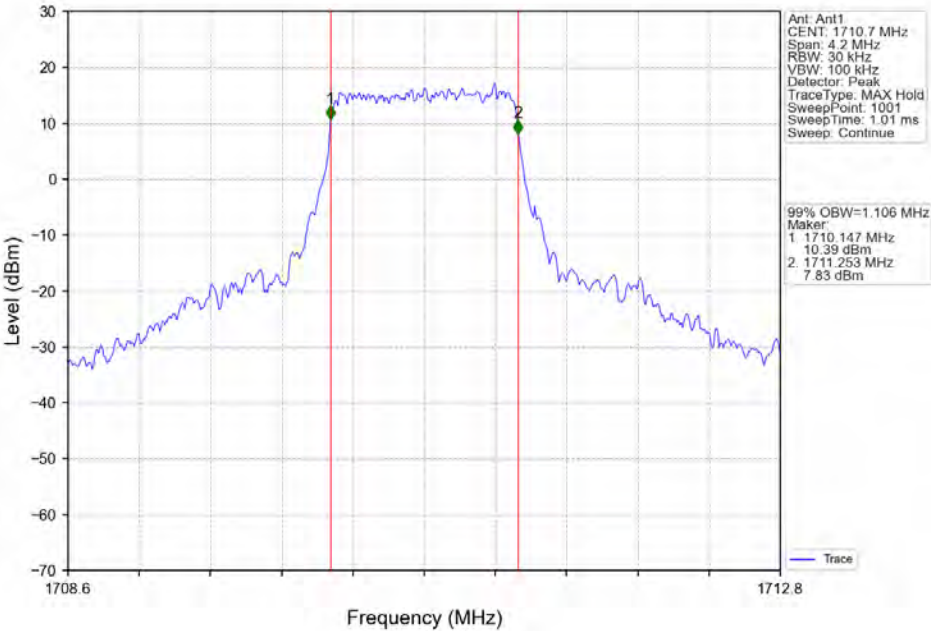
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



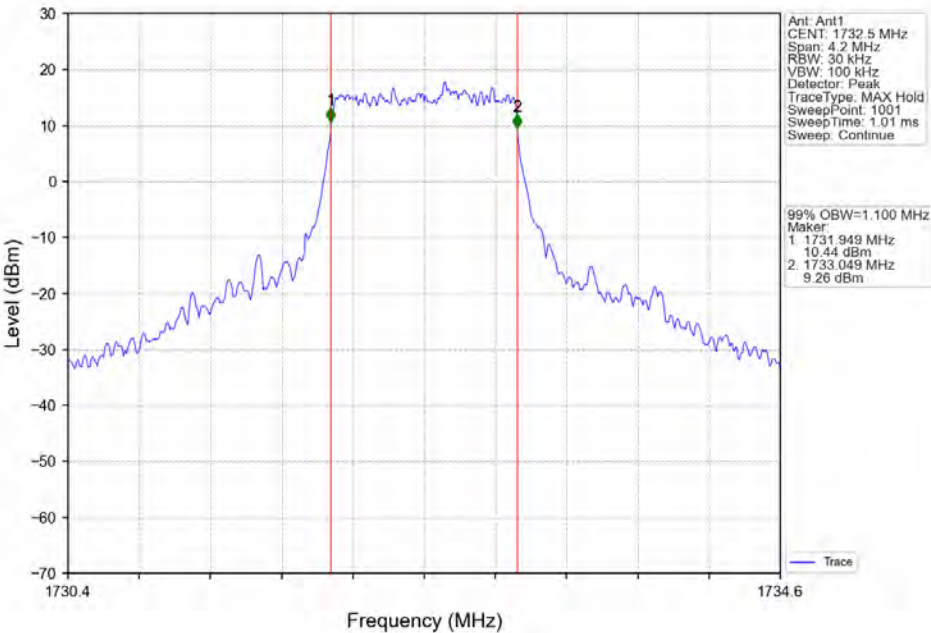
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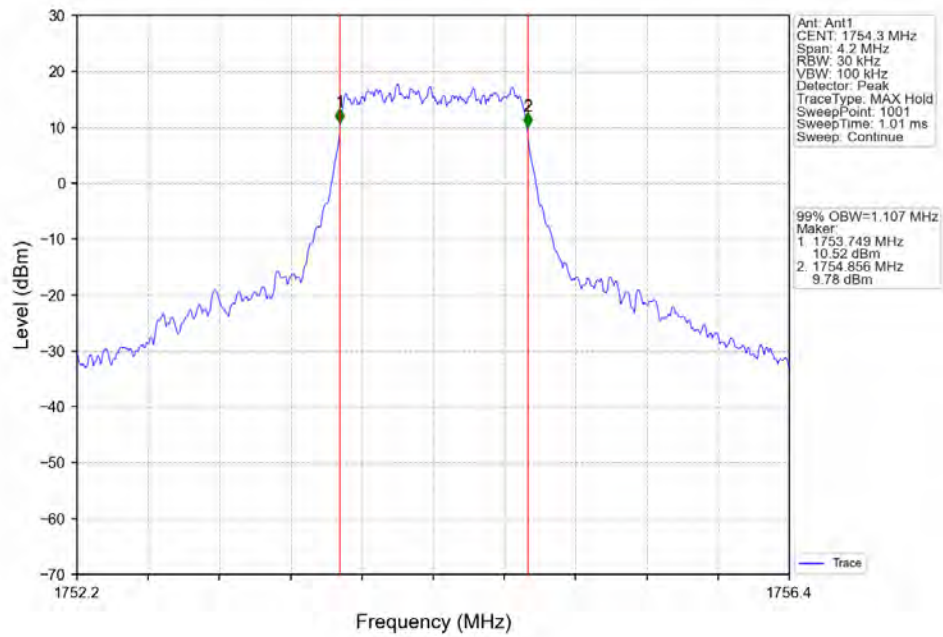
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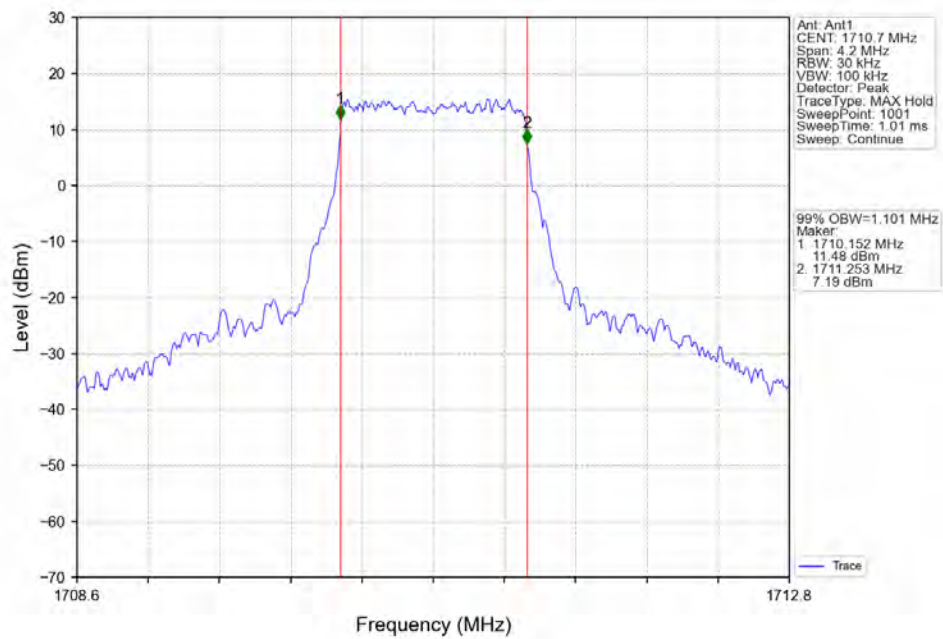
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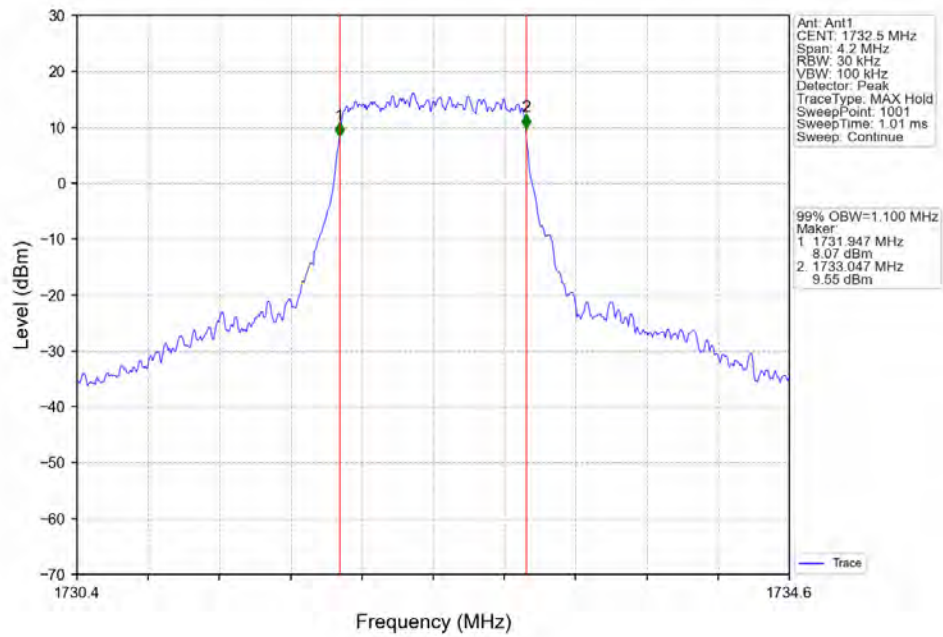
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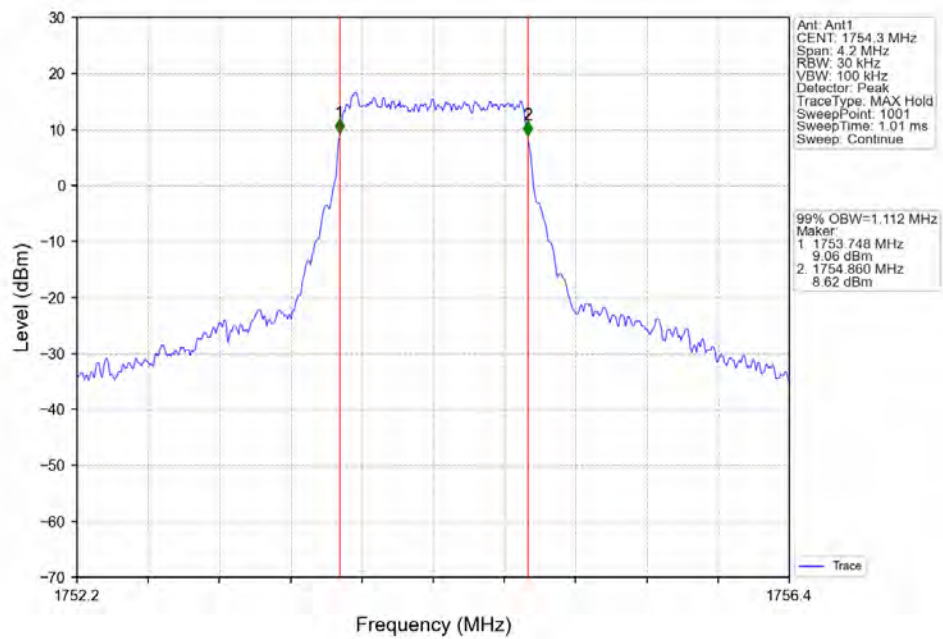
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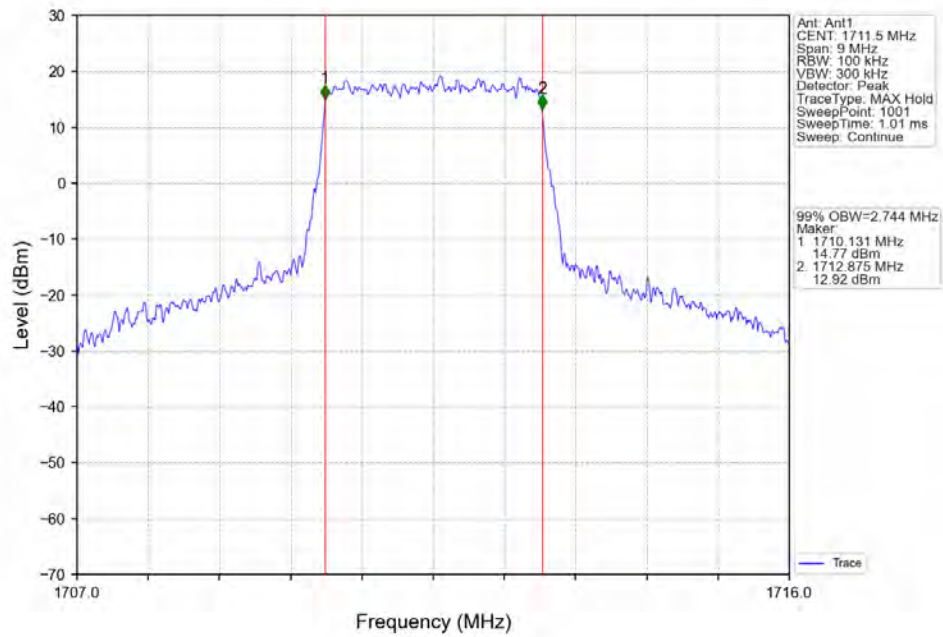
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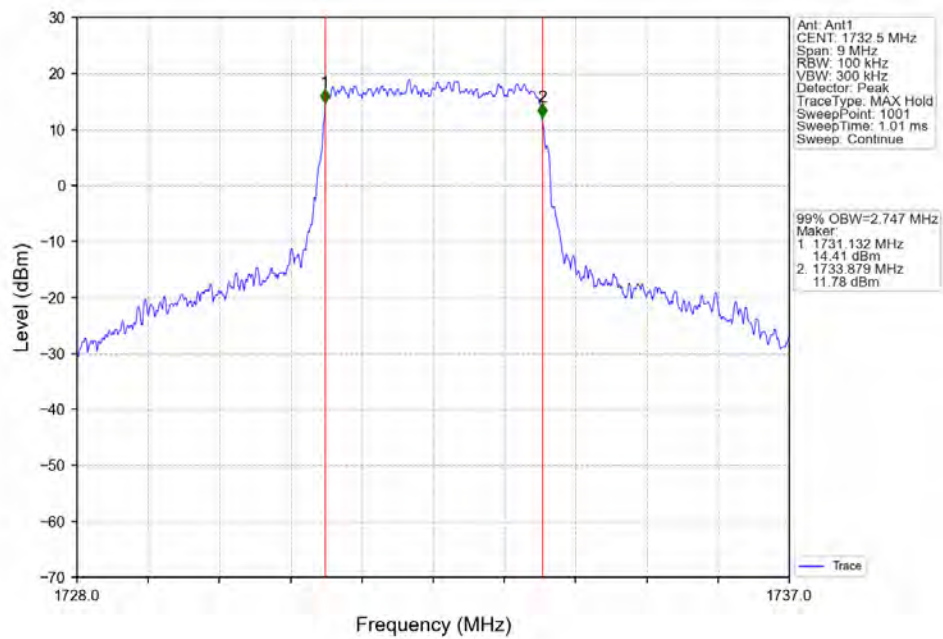
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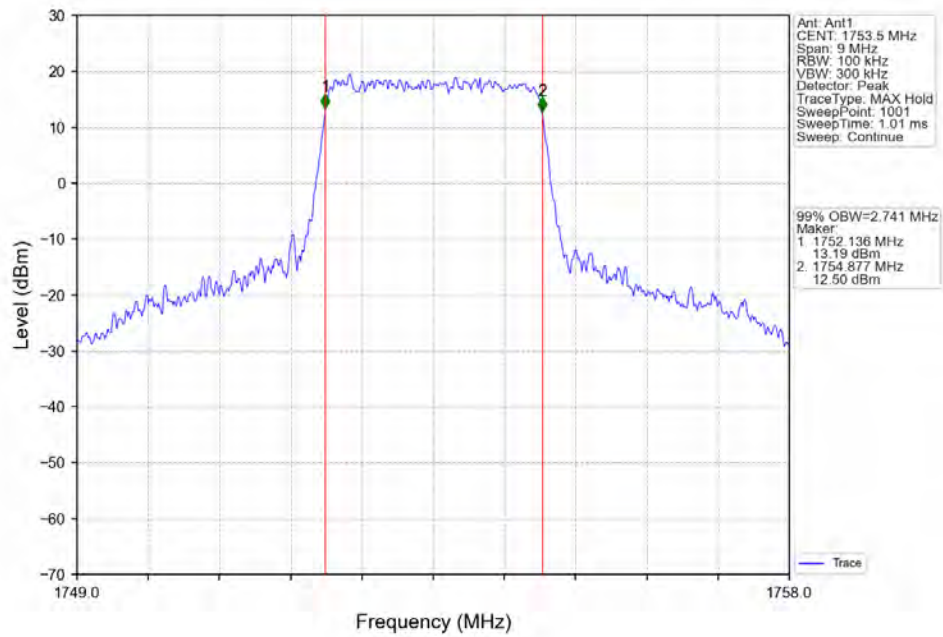
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTN



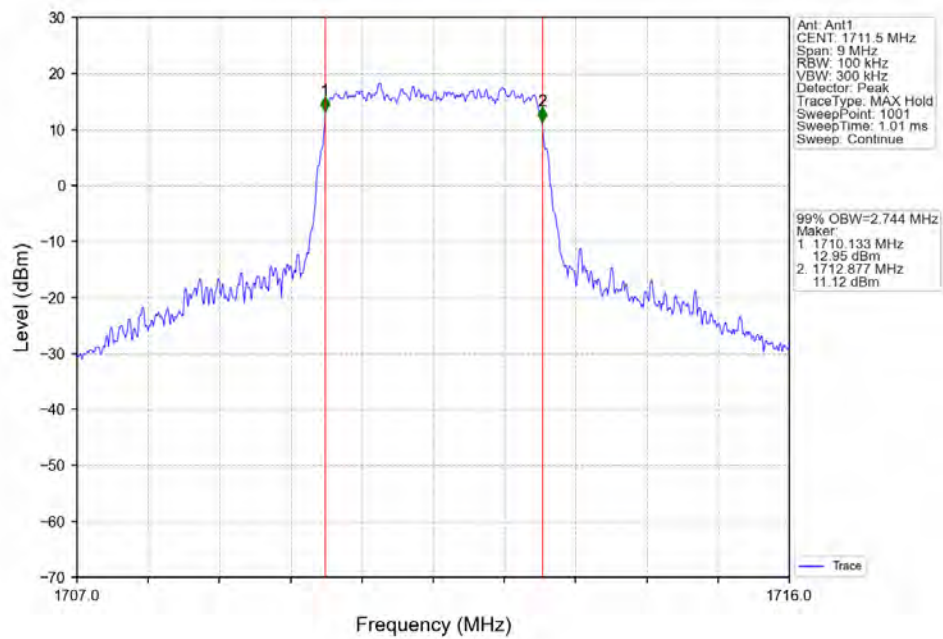
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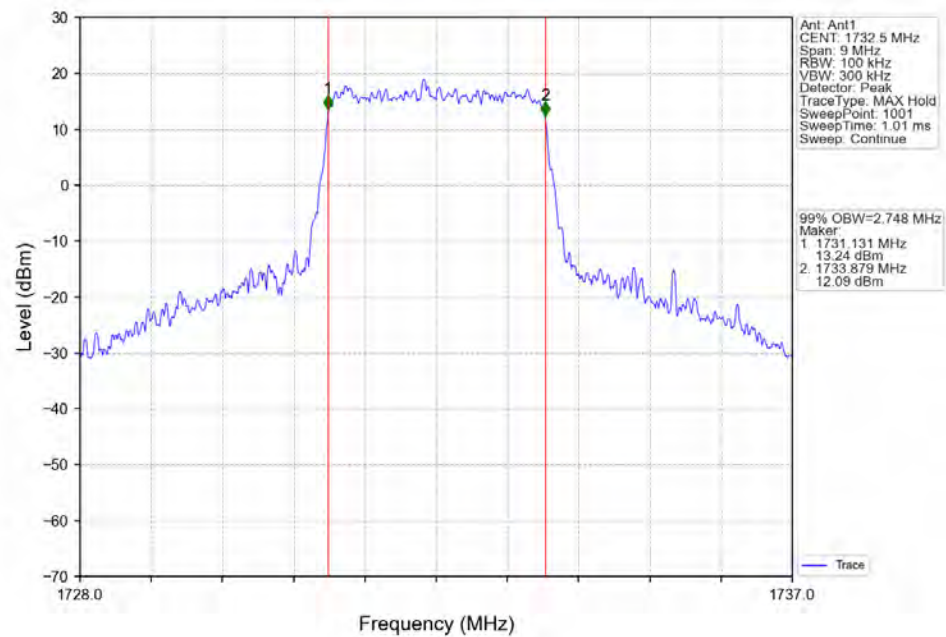
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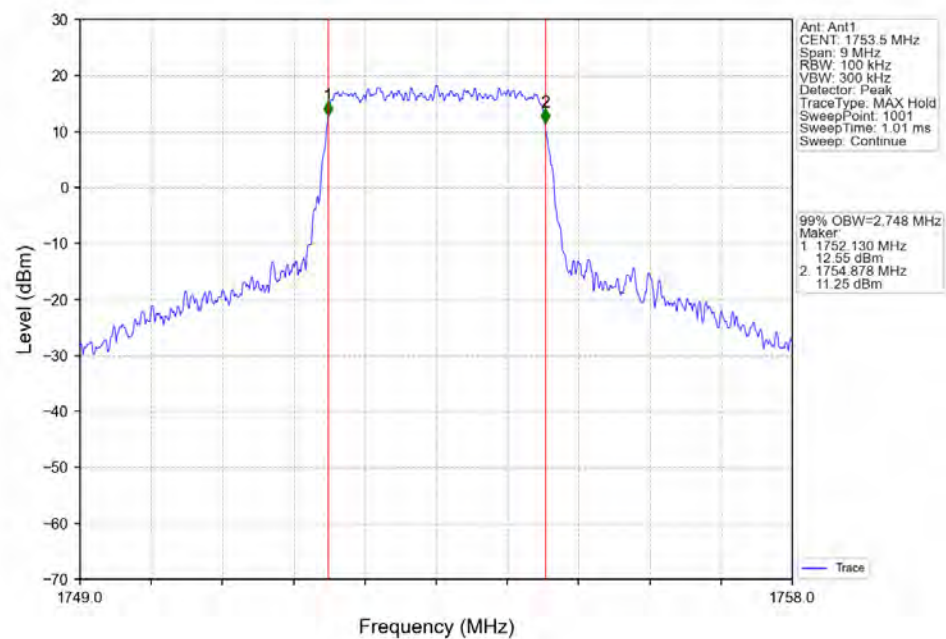
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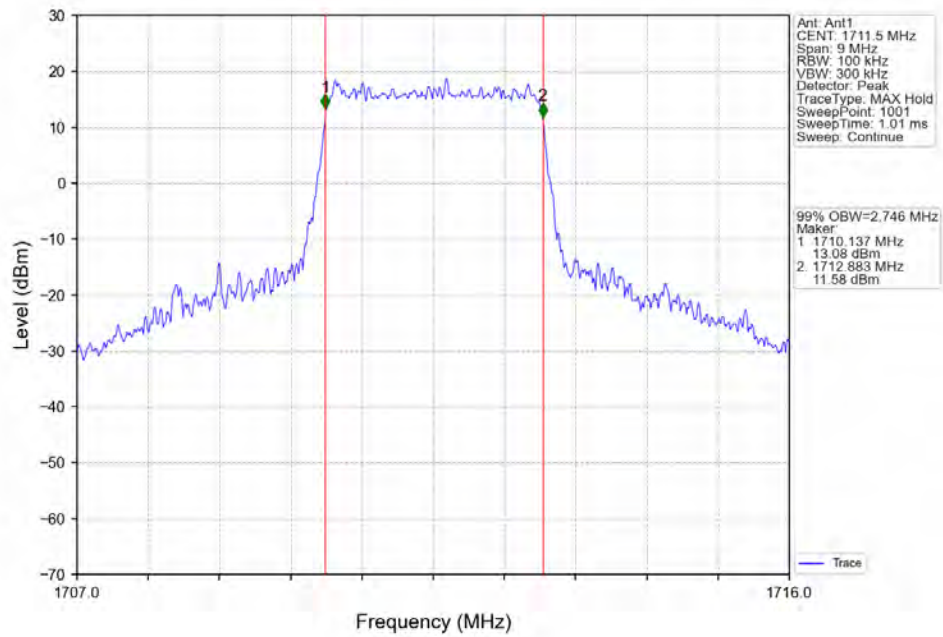
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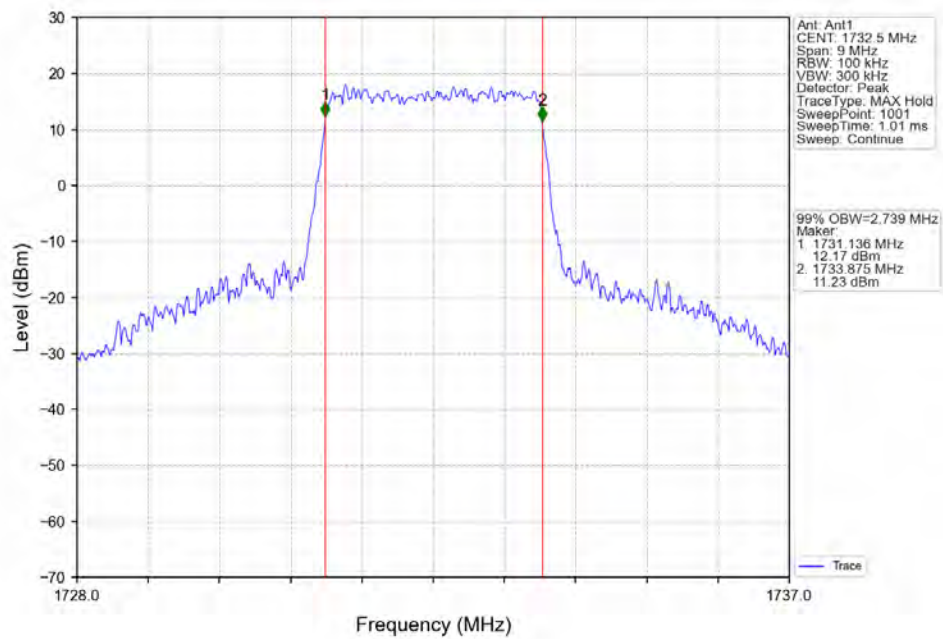
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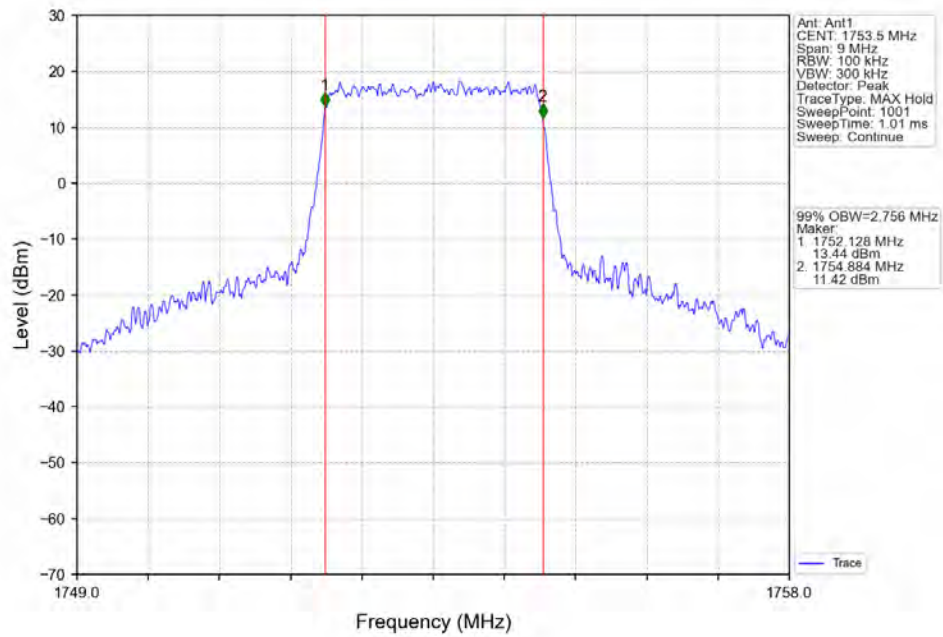
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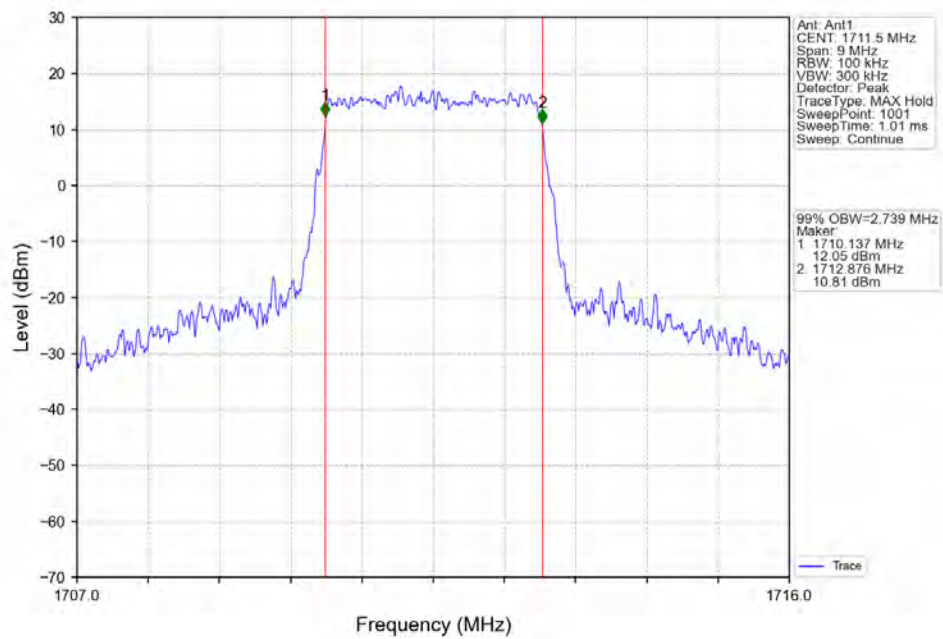
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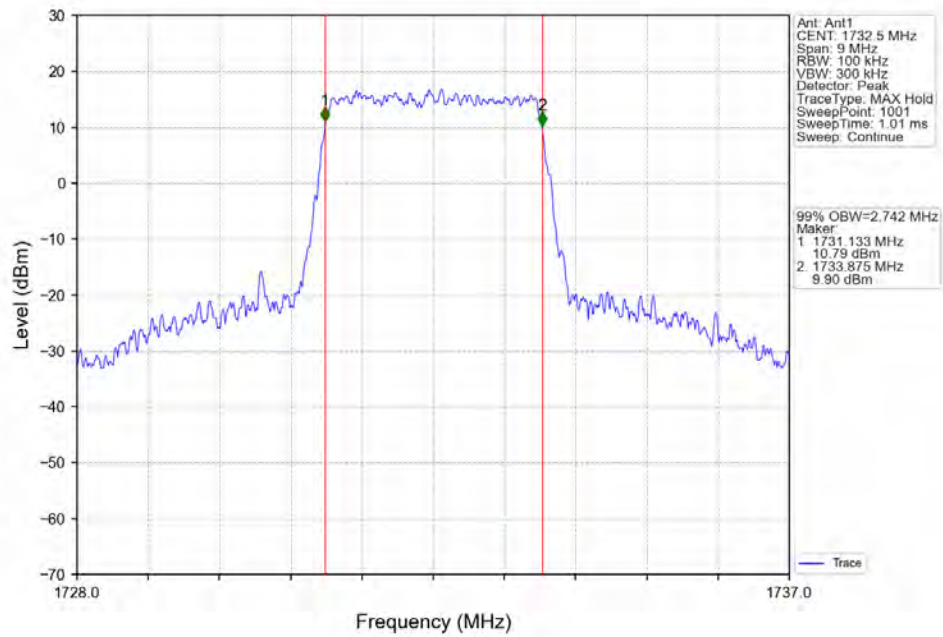
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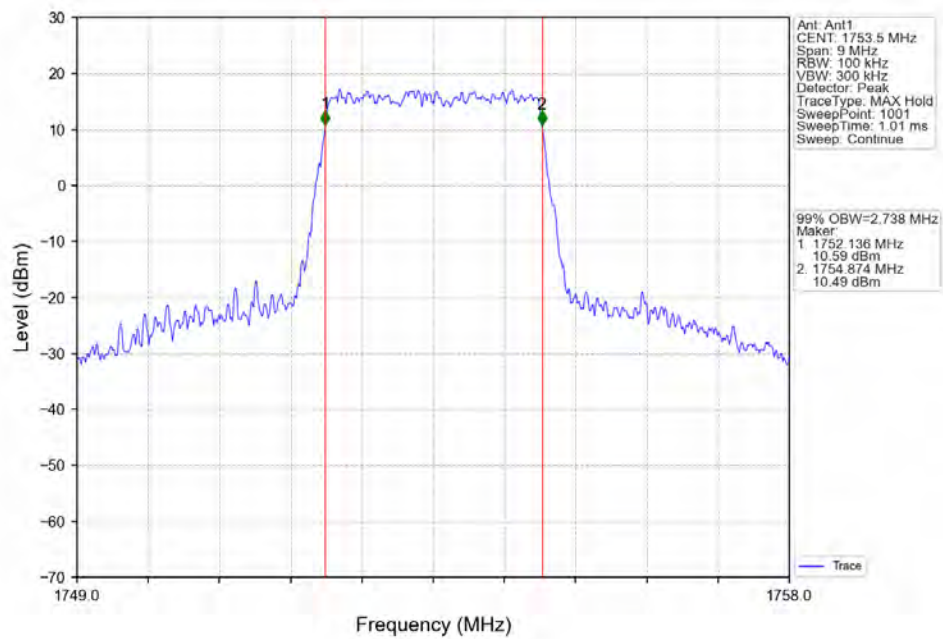
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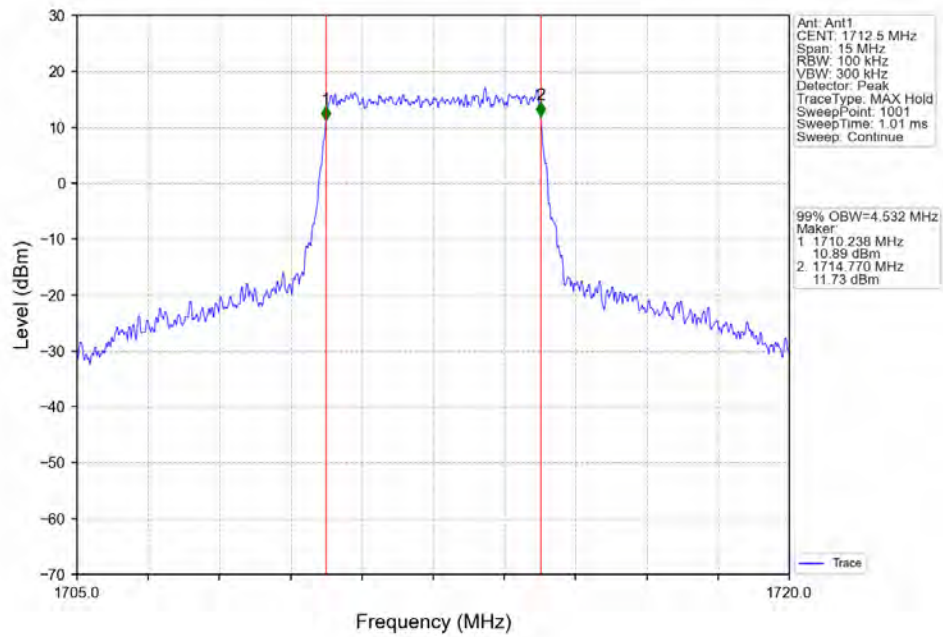
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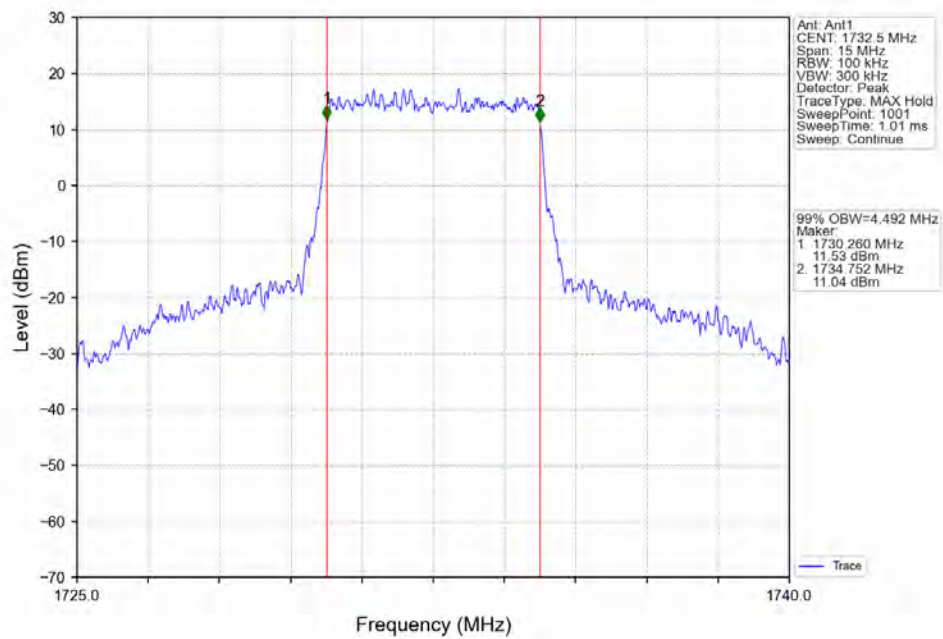
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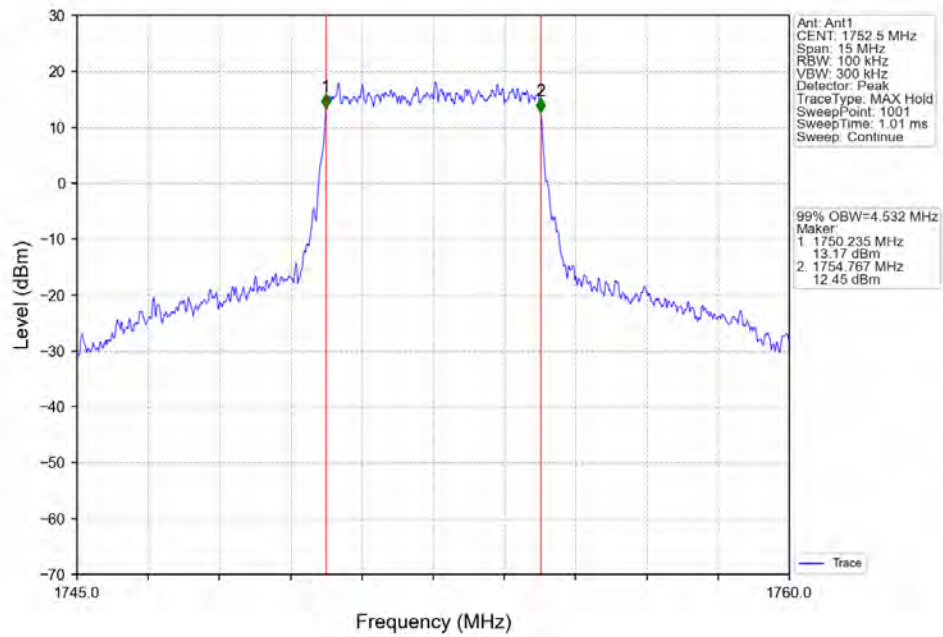
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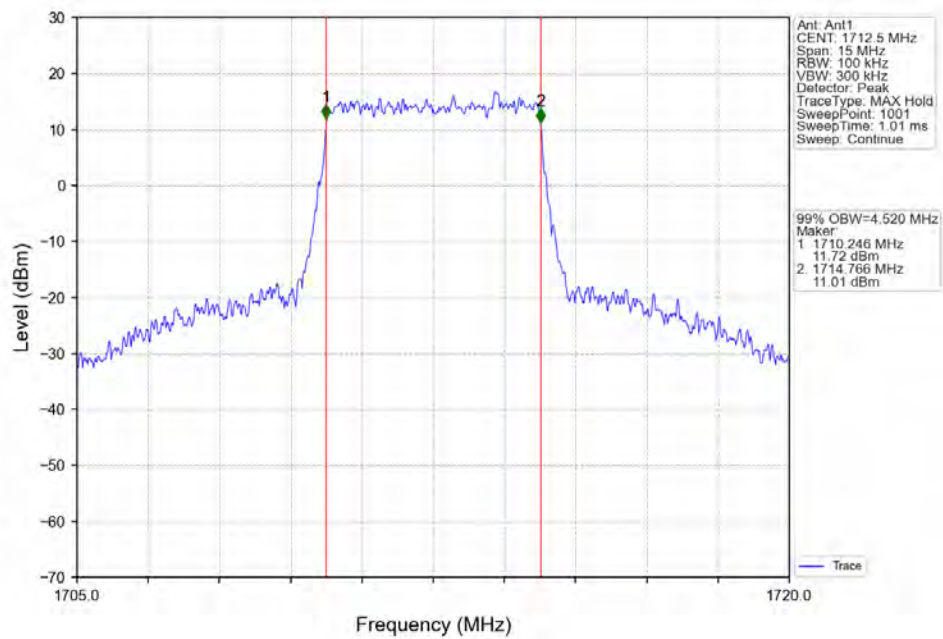
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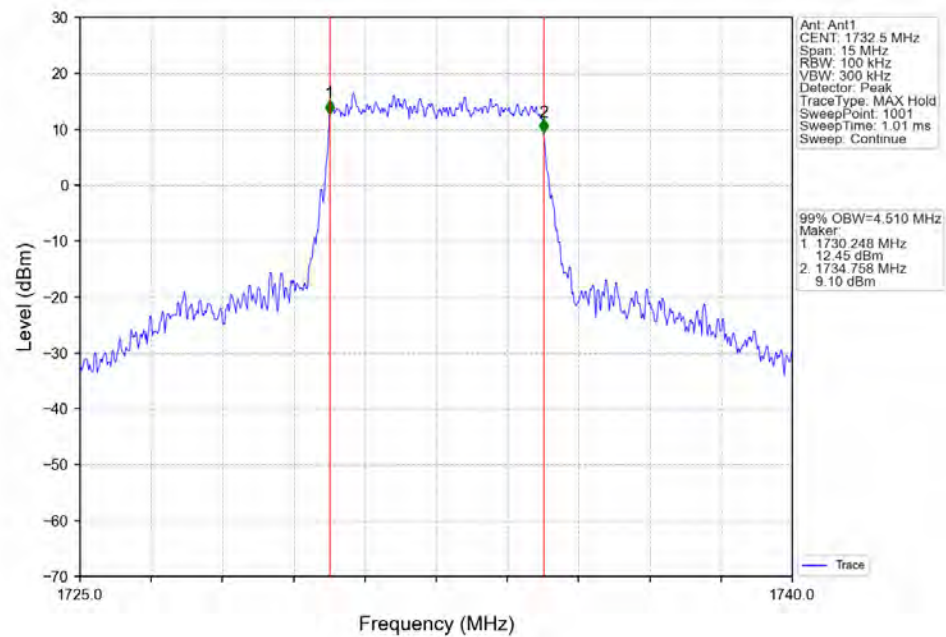
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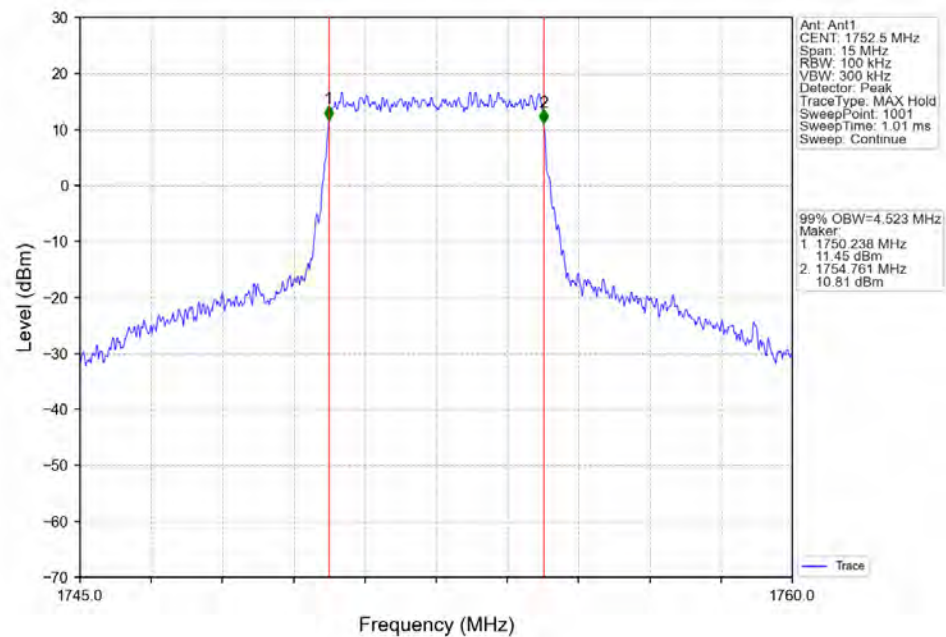
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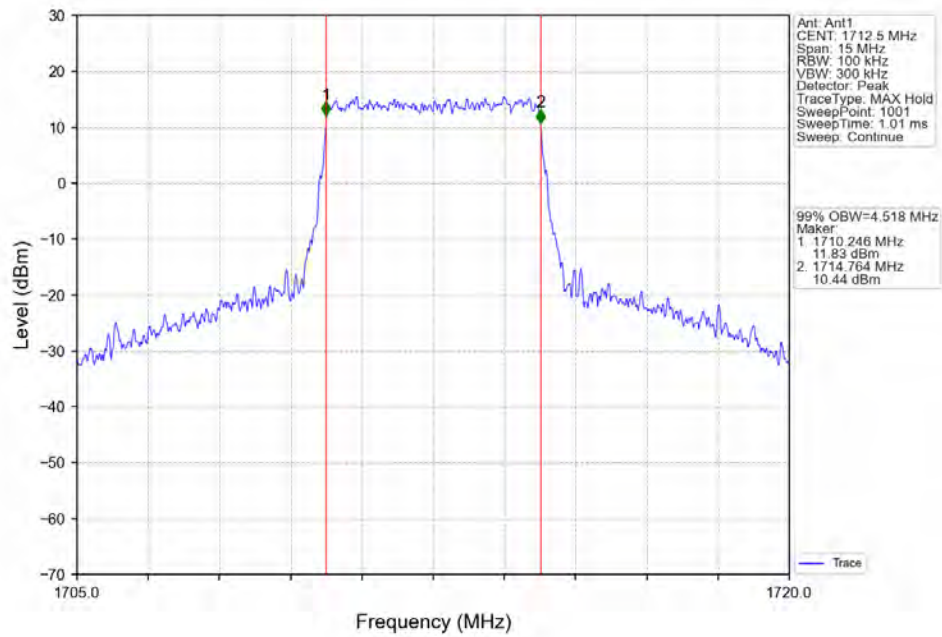
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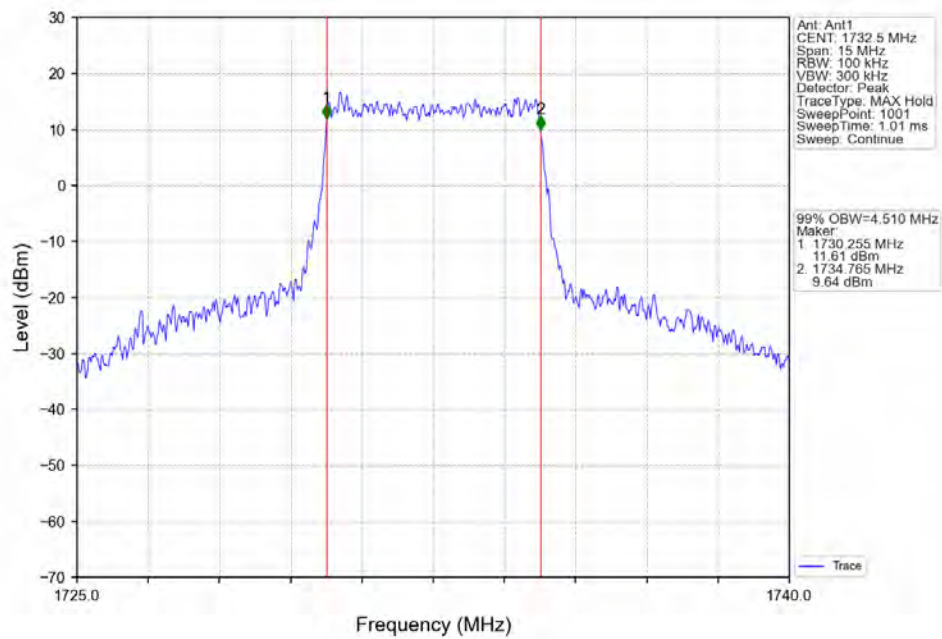
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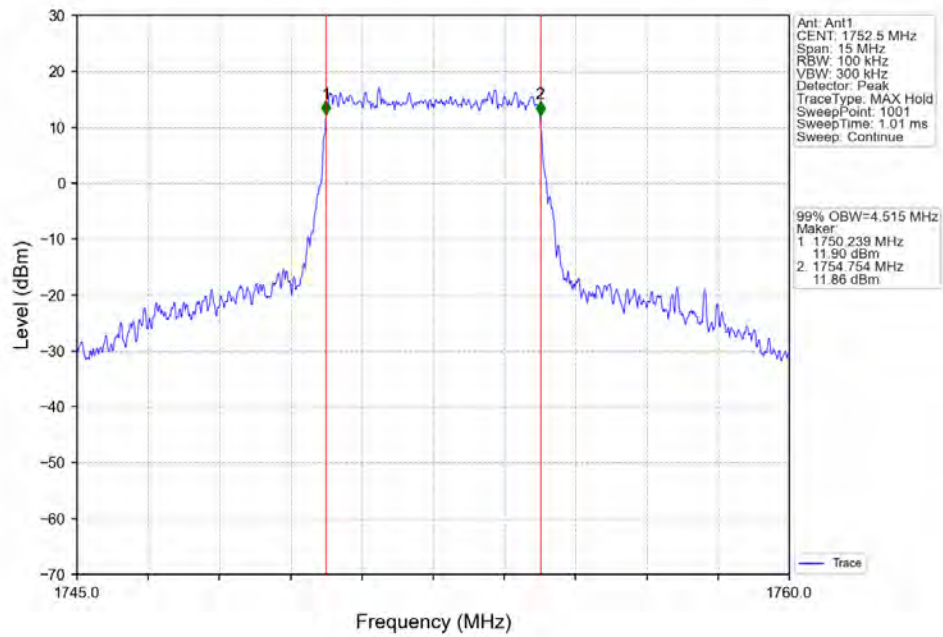
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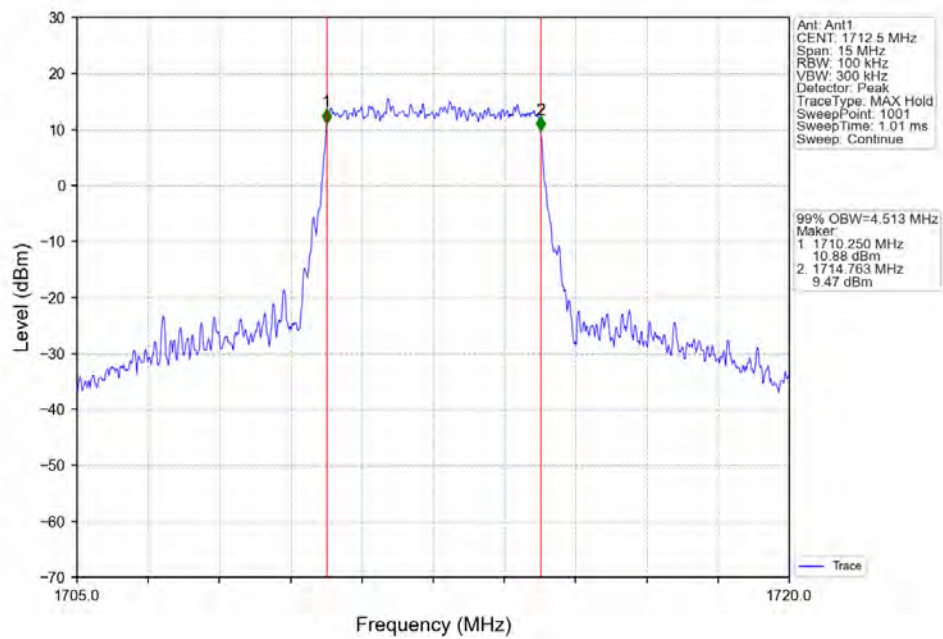
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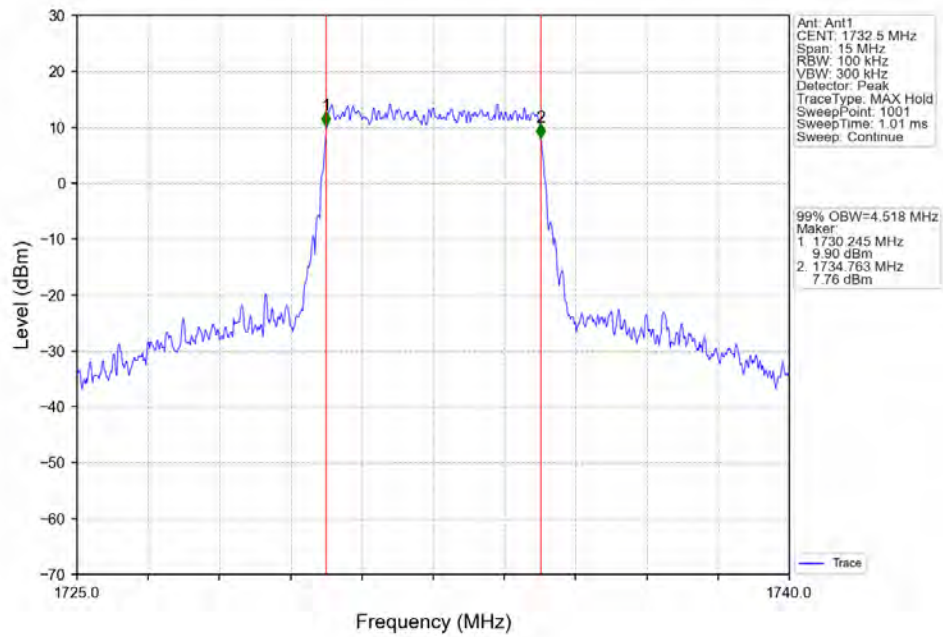
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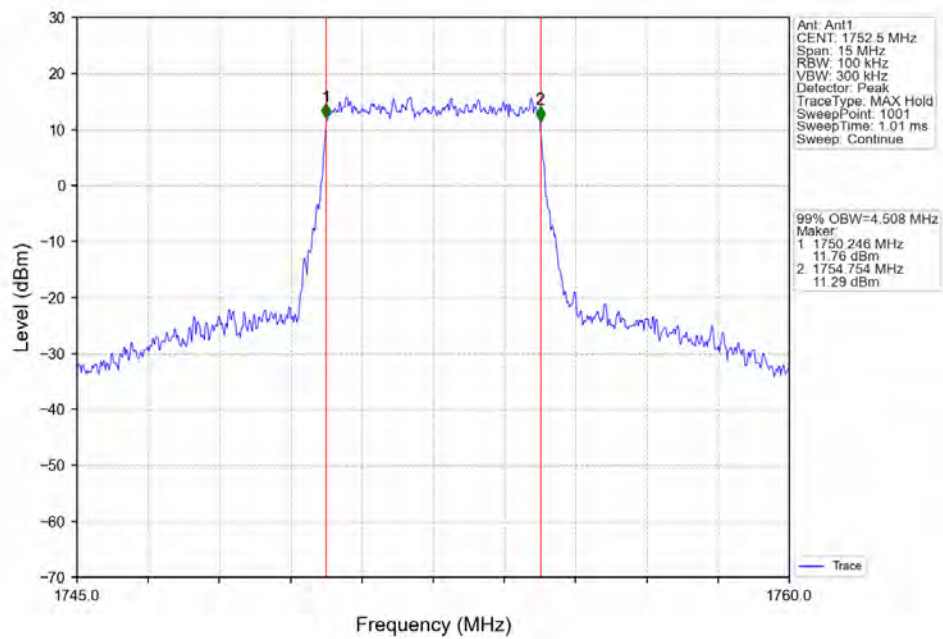
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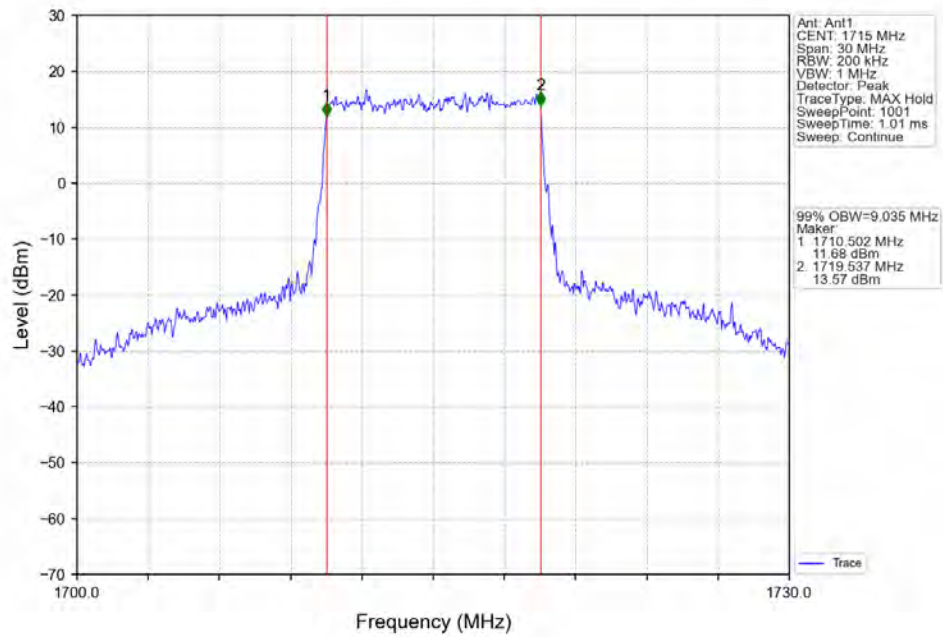
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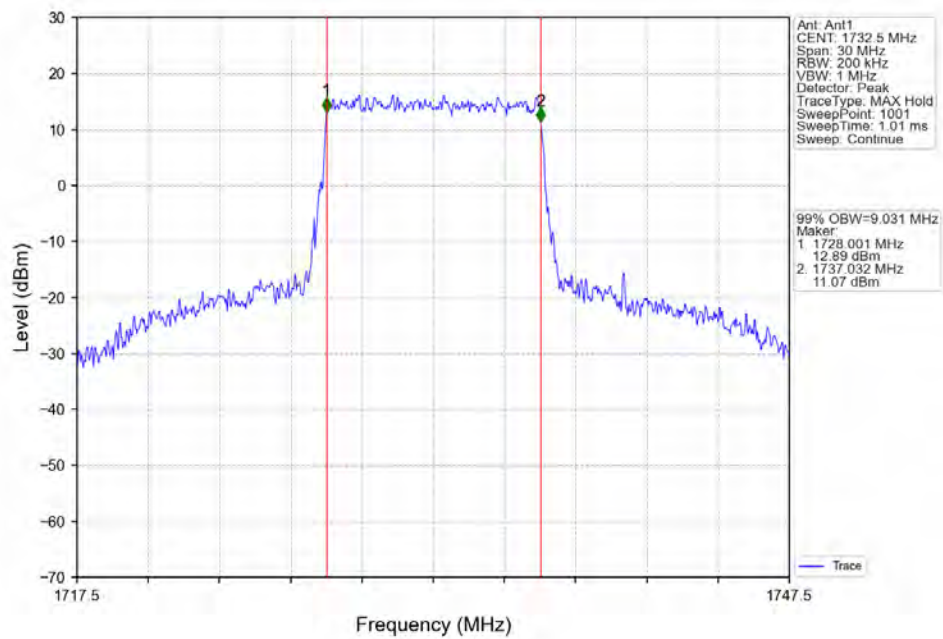
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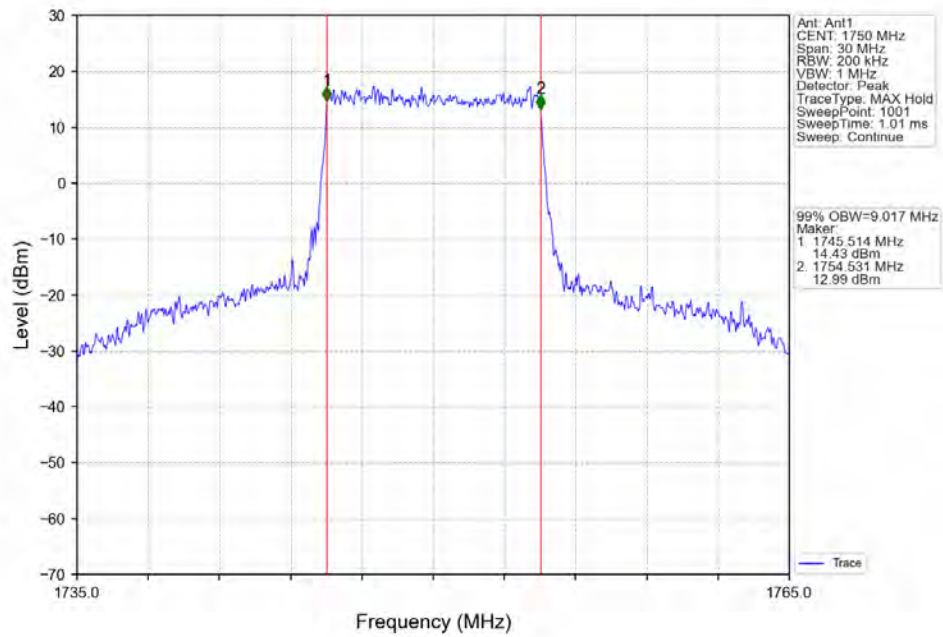
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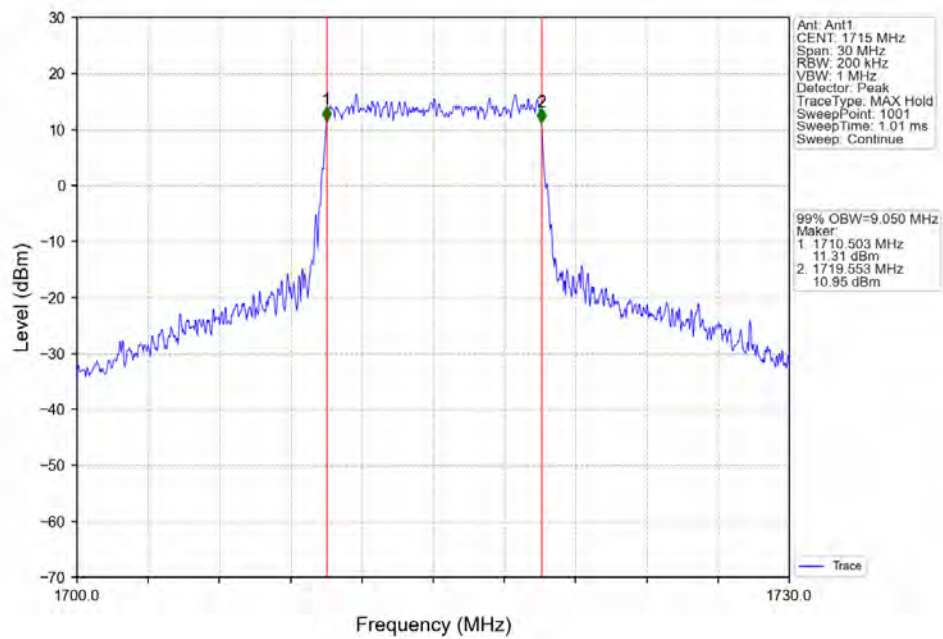
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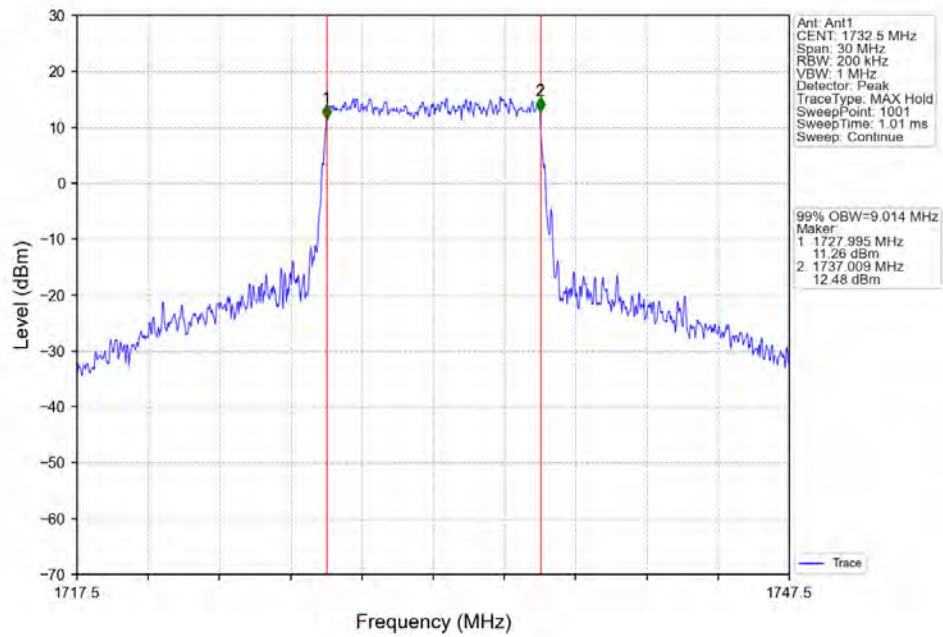
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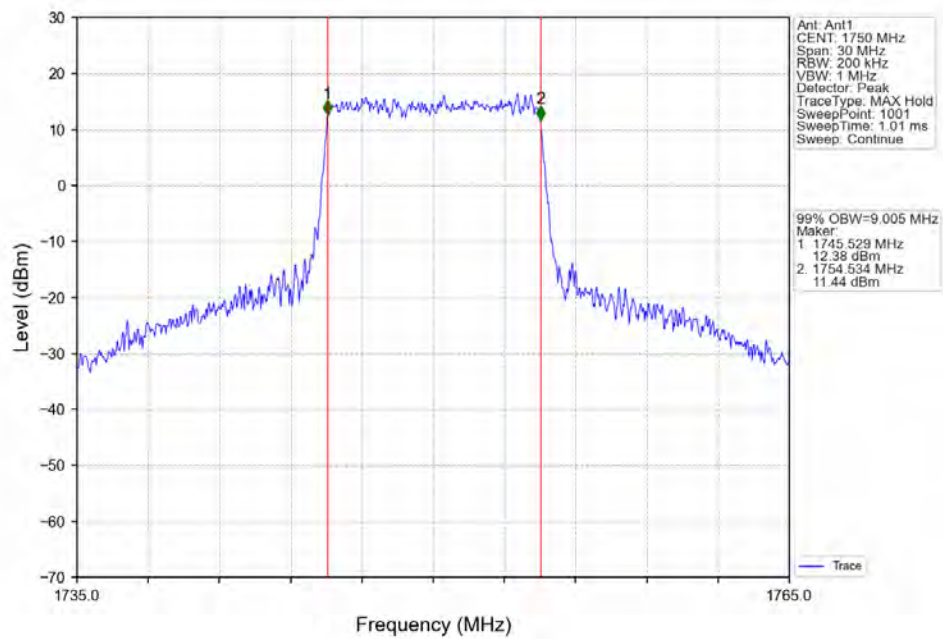
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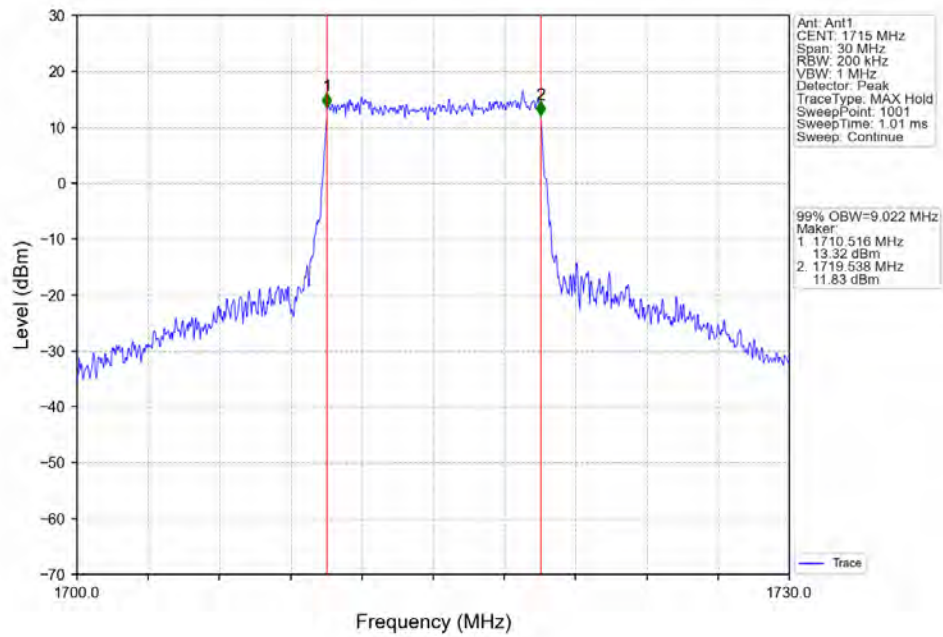
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTNV



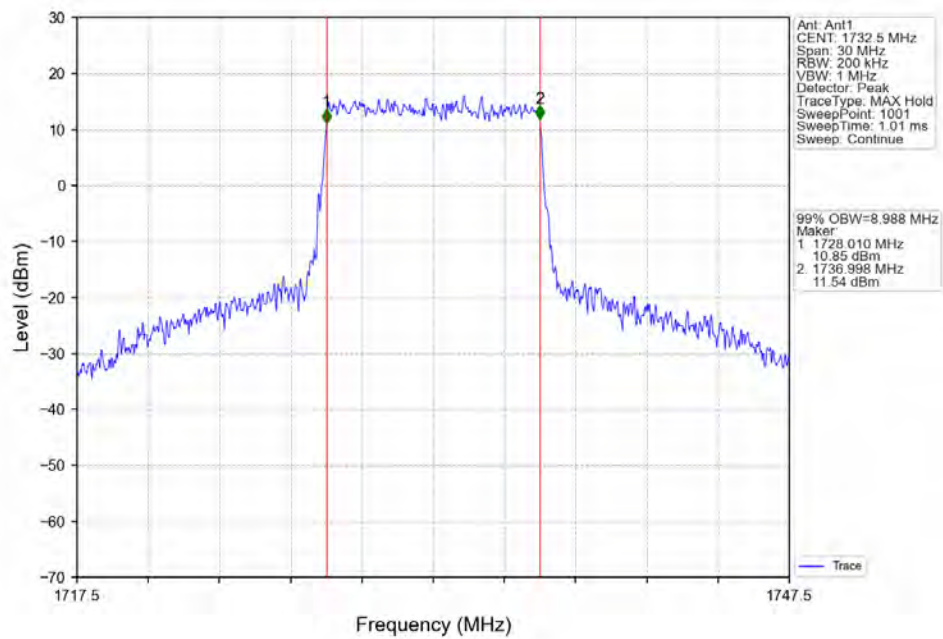
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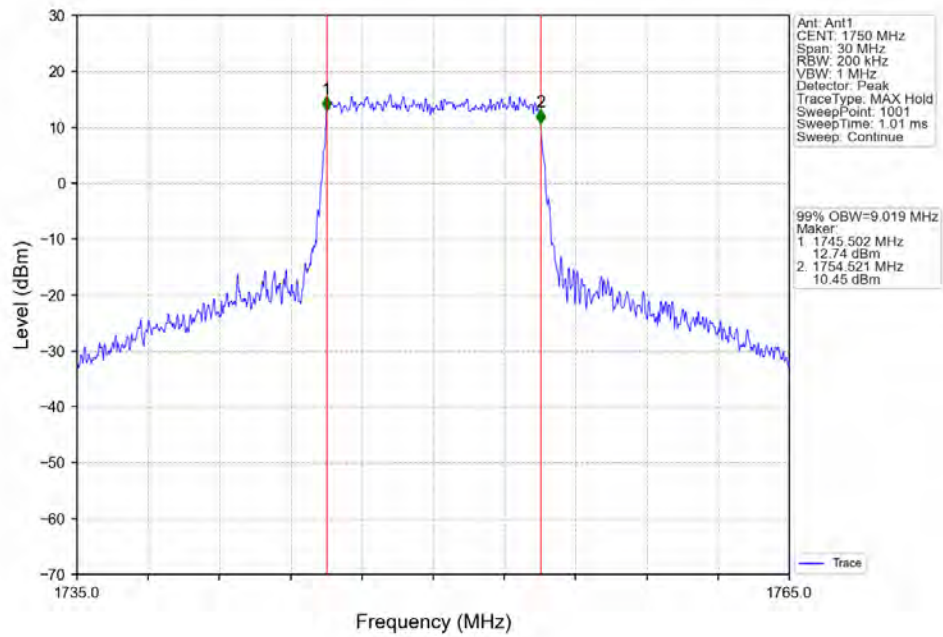
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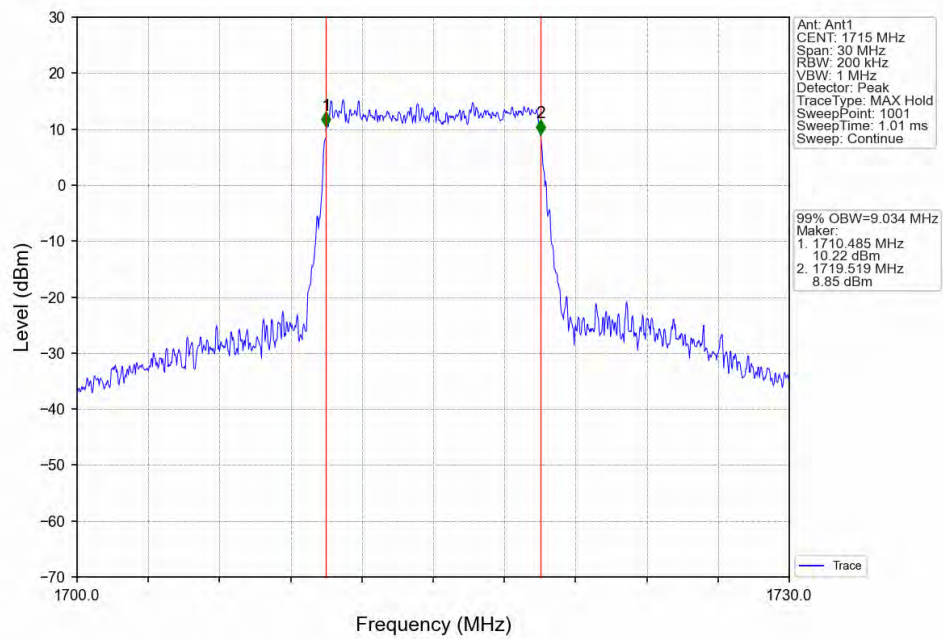
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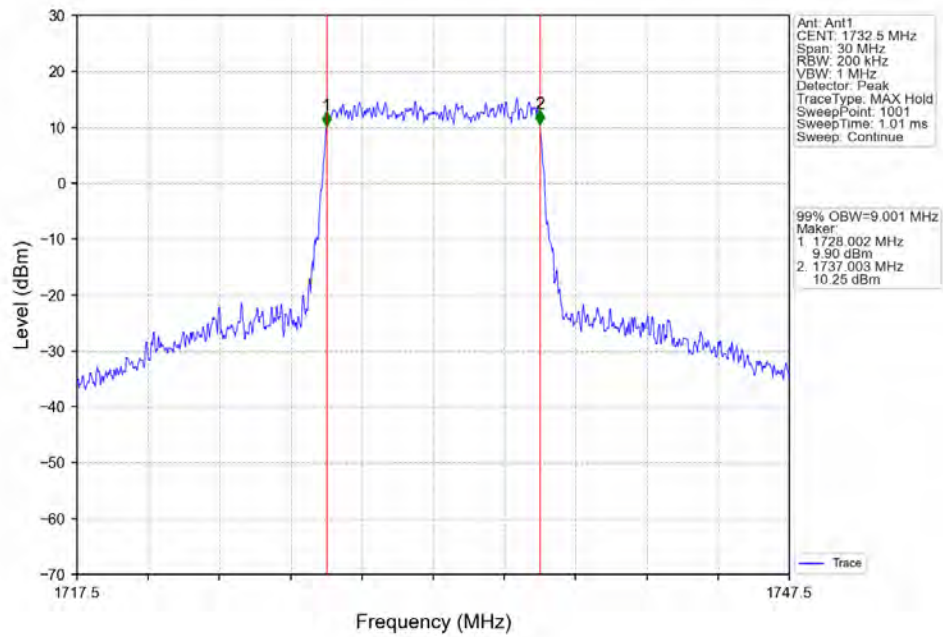
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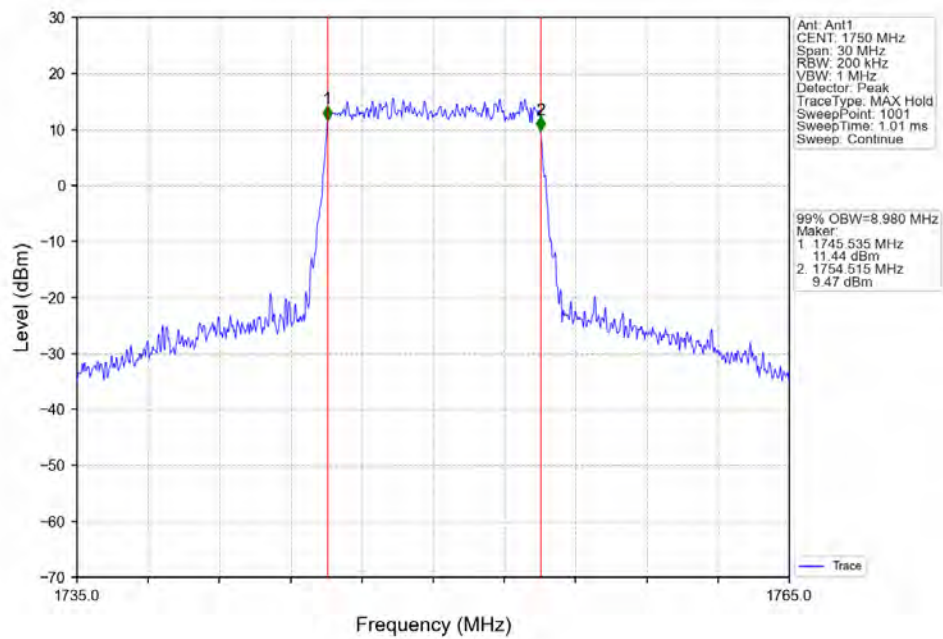
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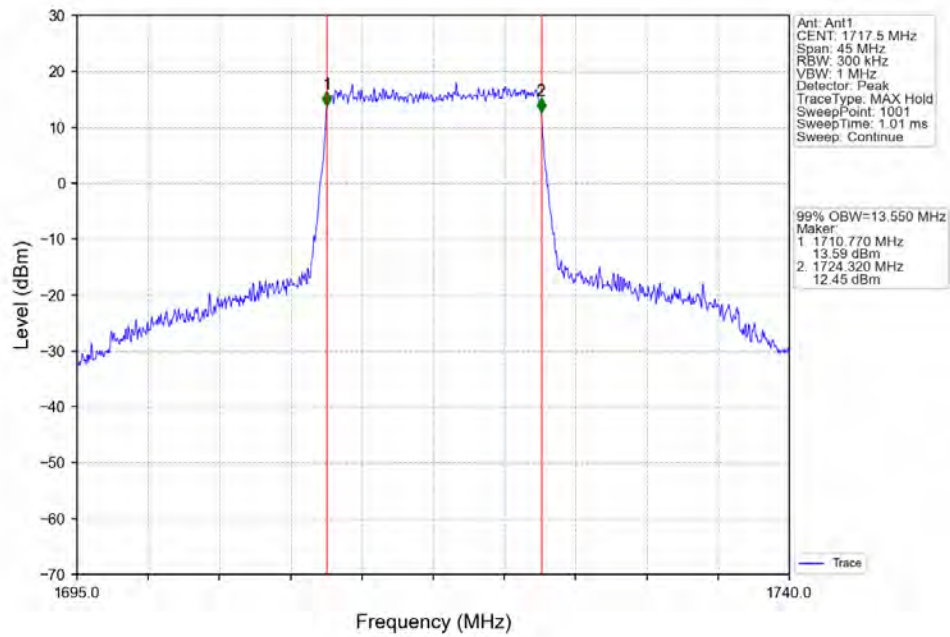
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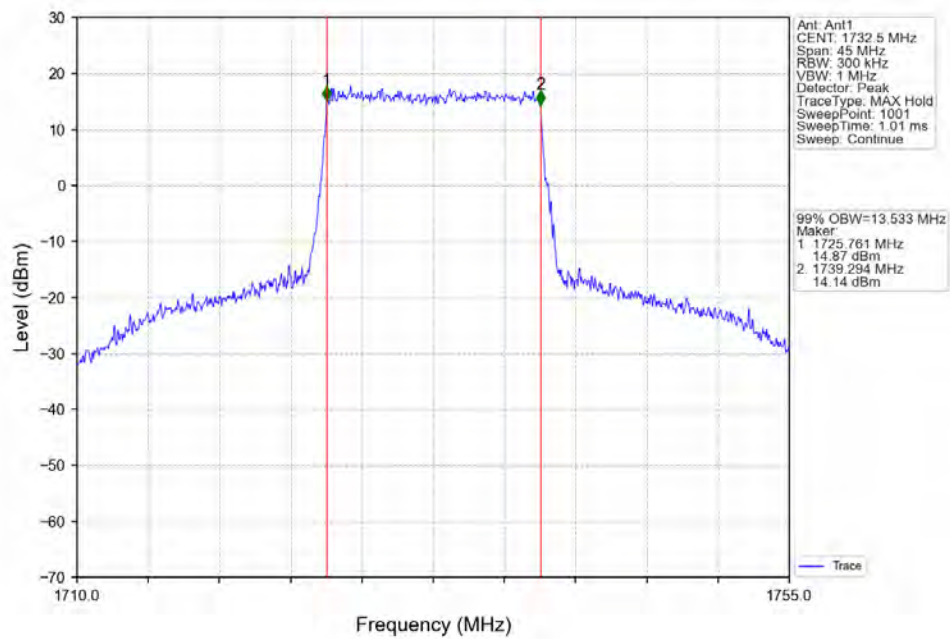
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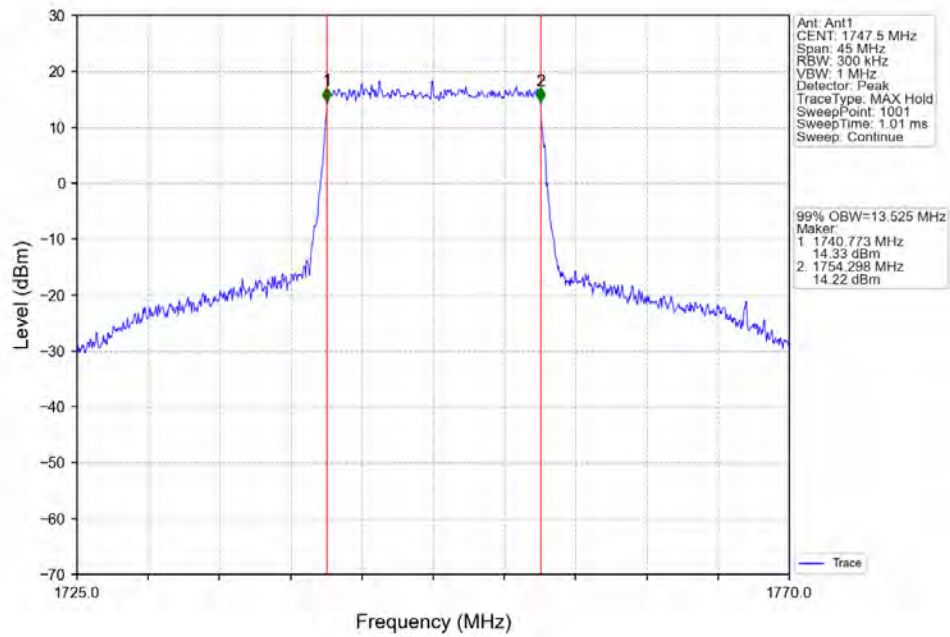
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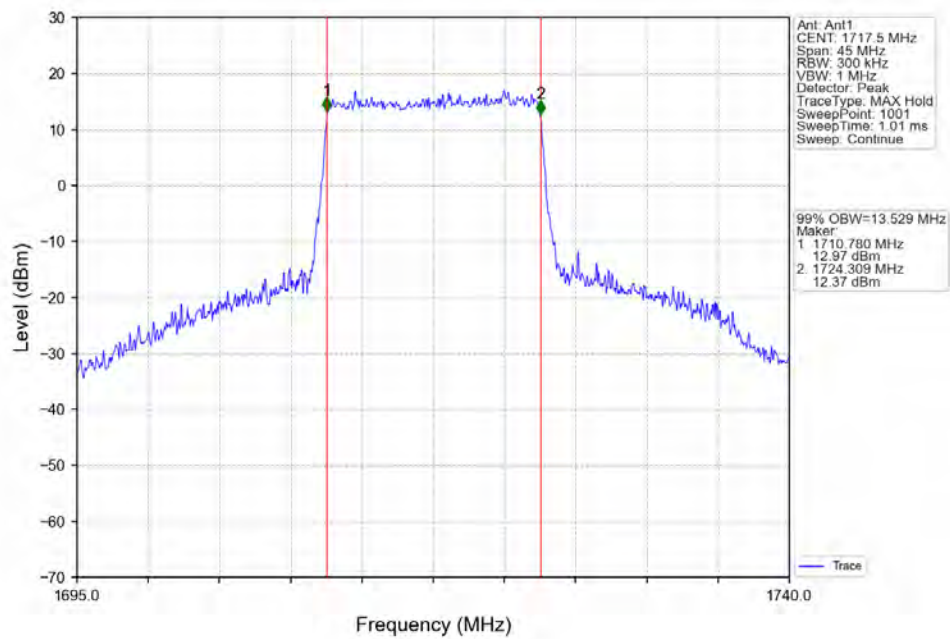
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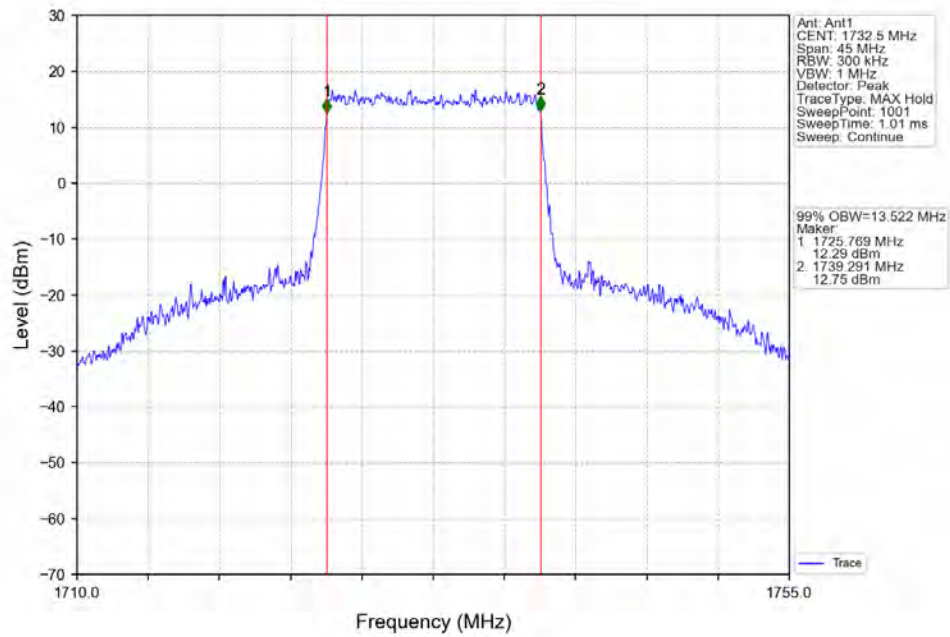
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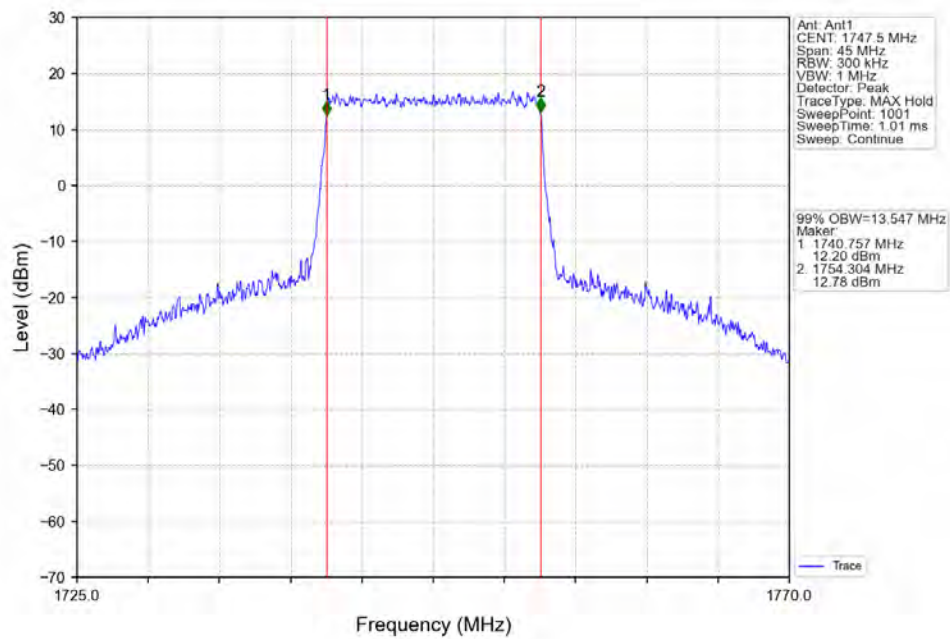
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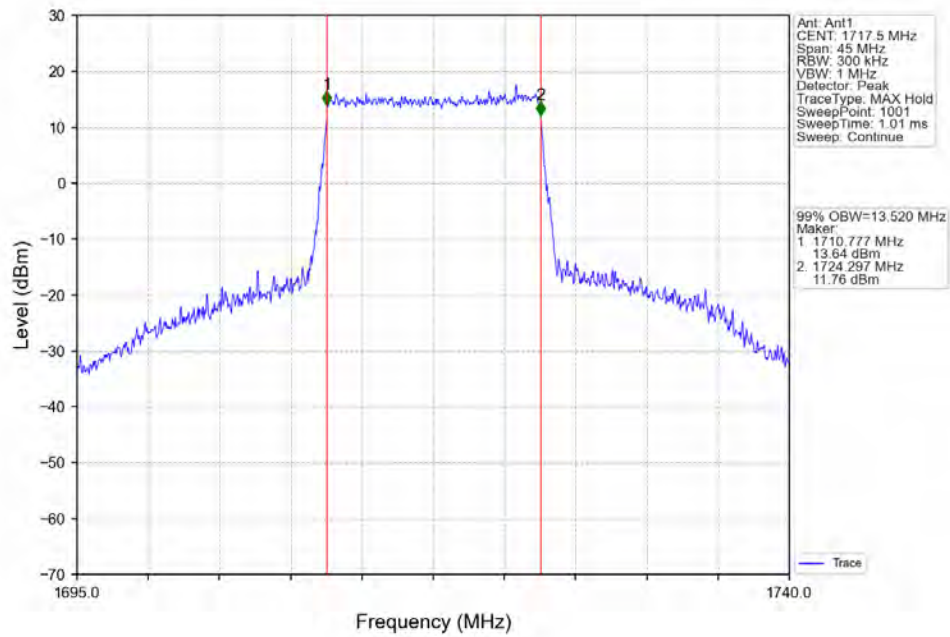
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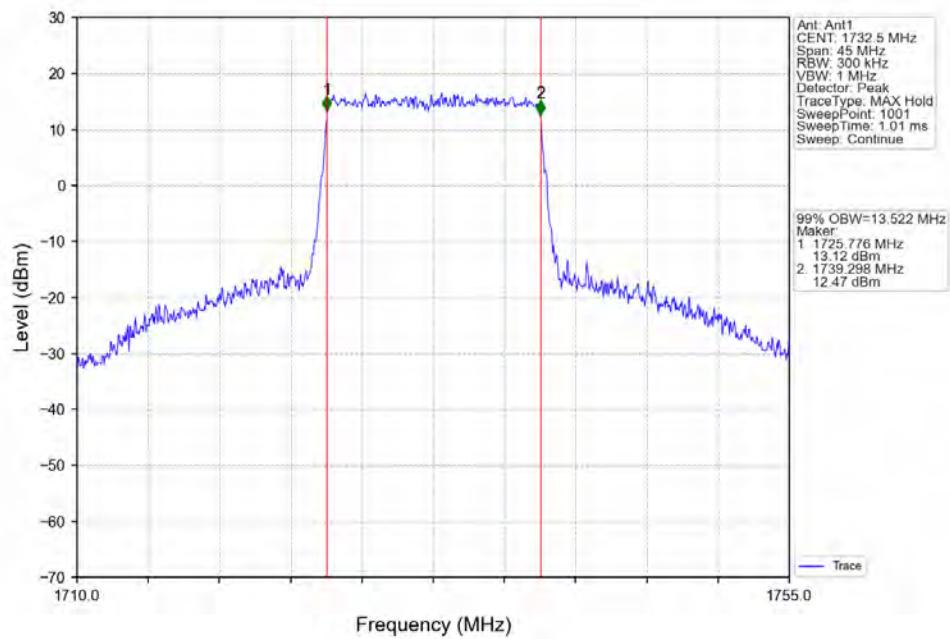
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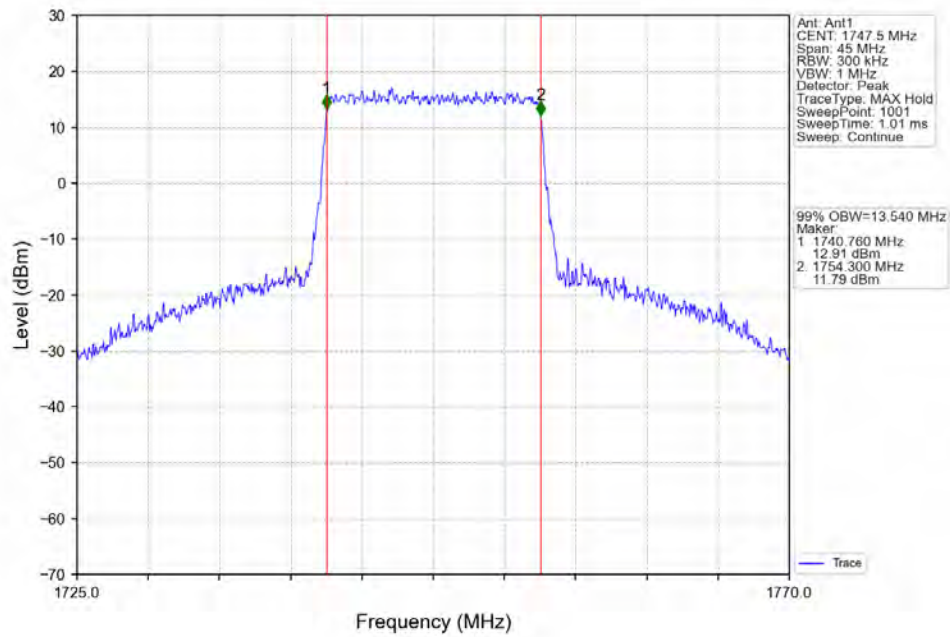
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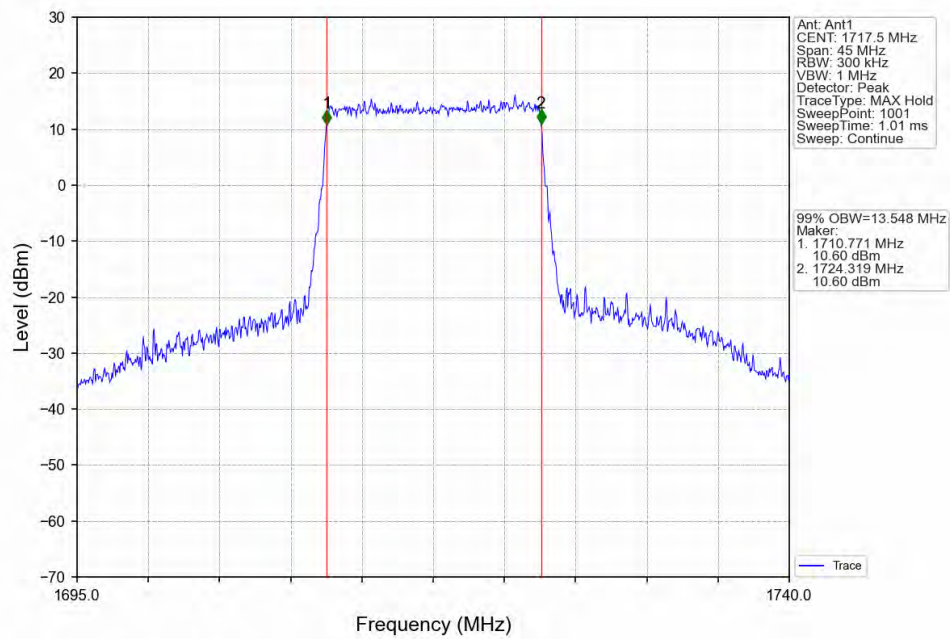
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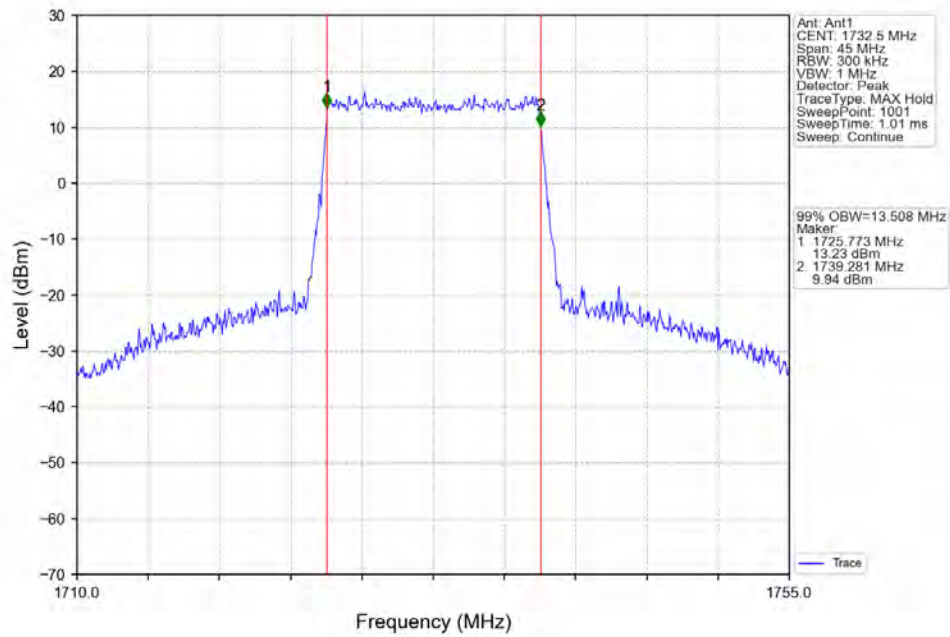
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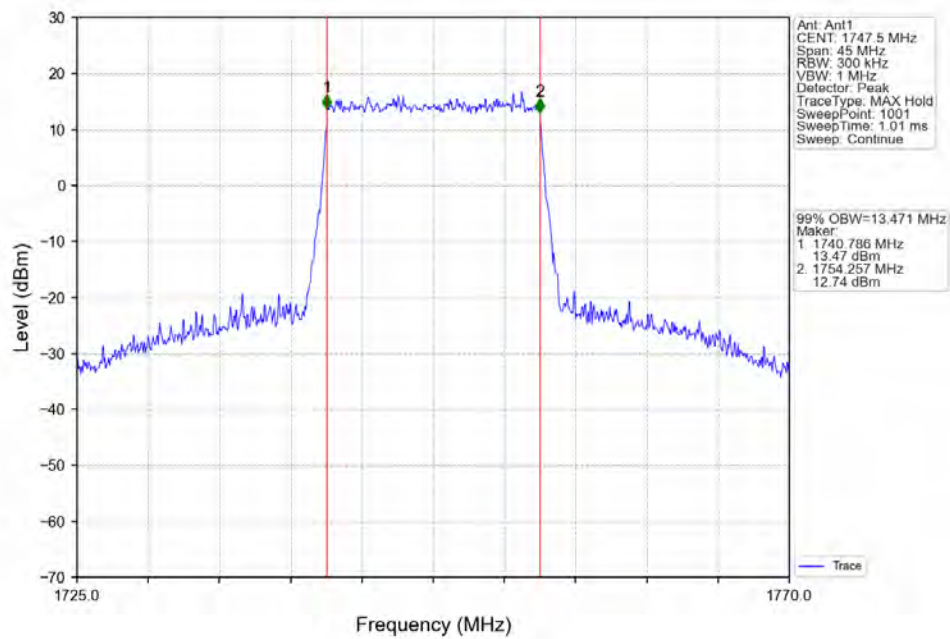
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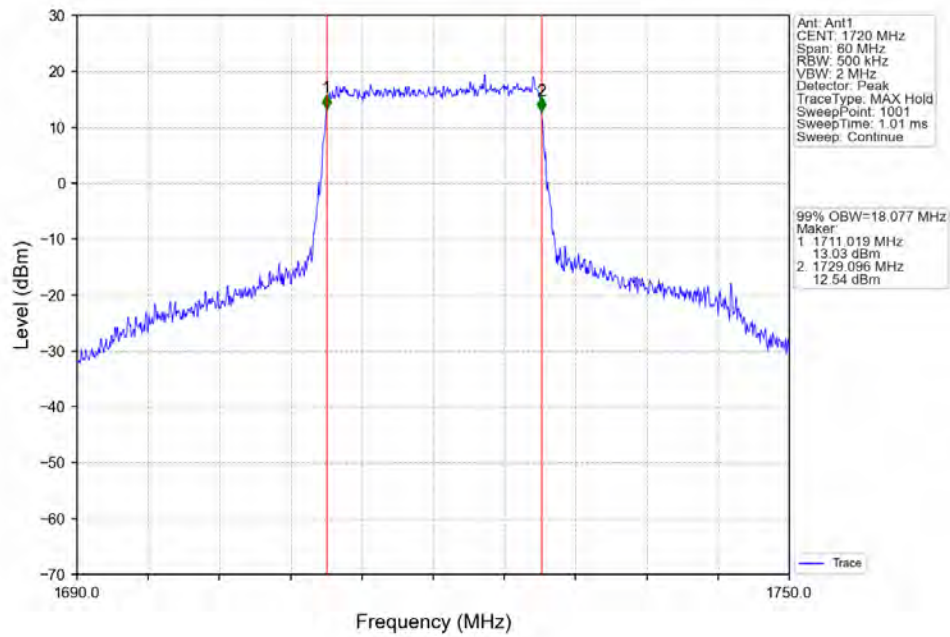
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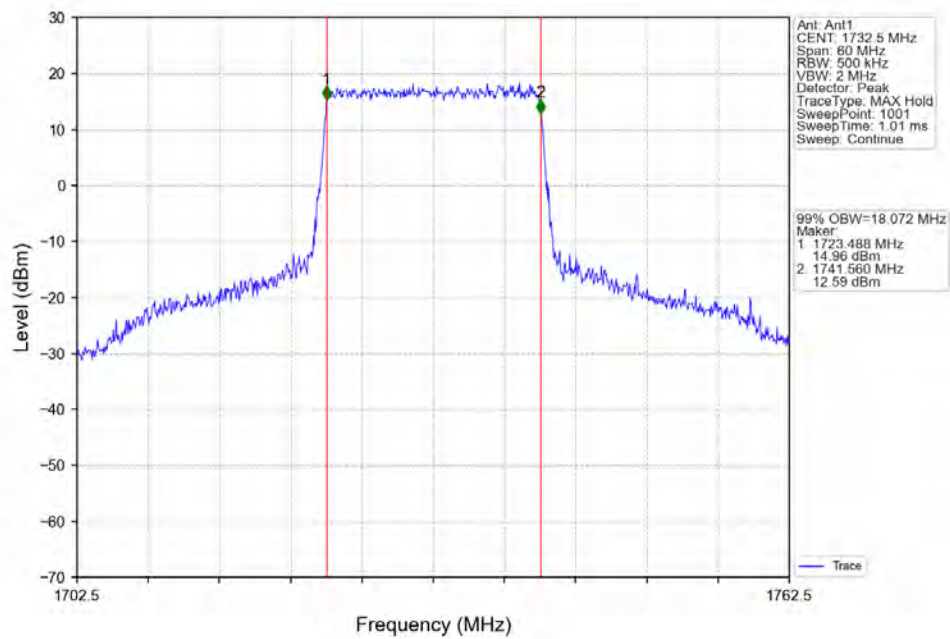
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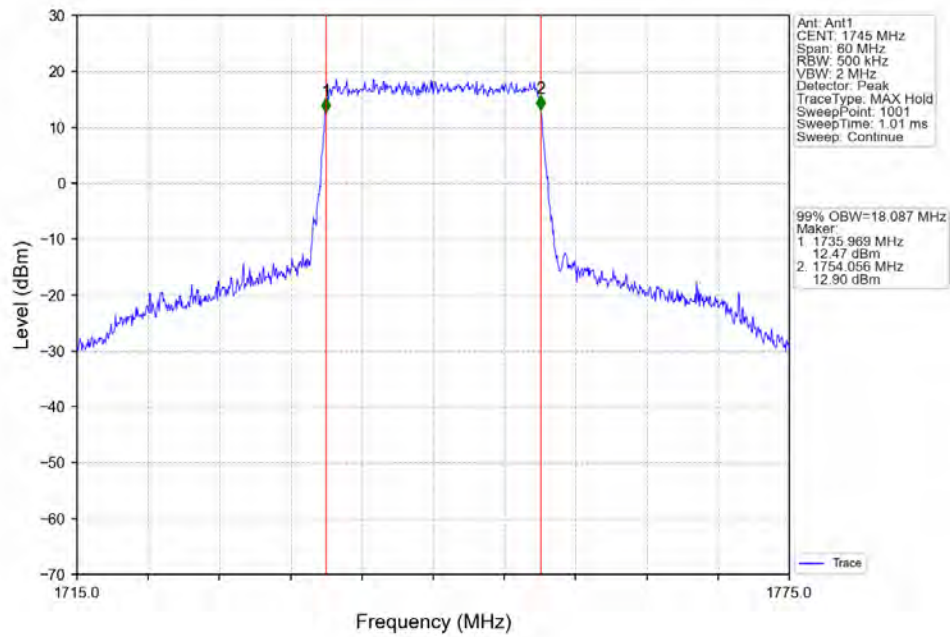
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTNV



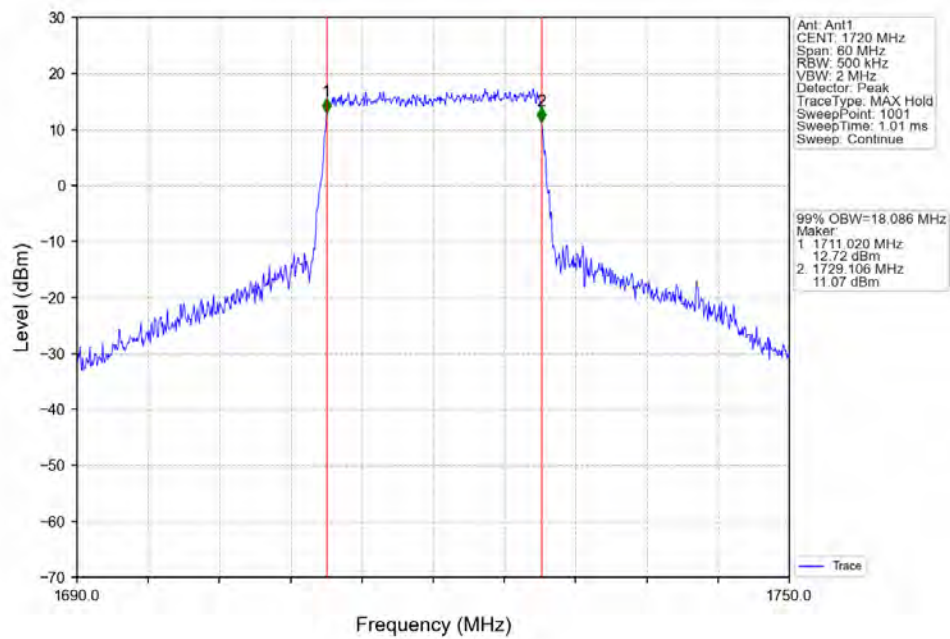
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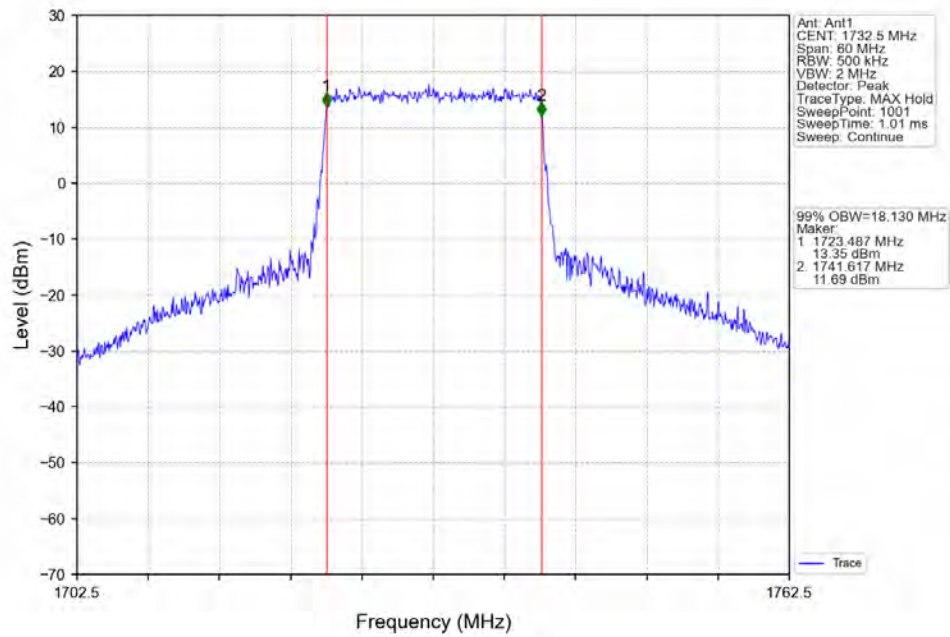
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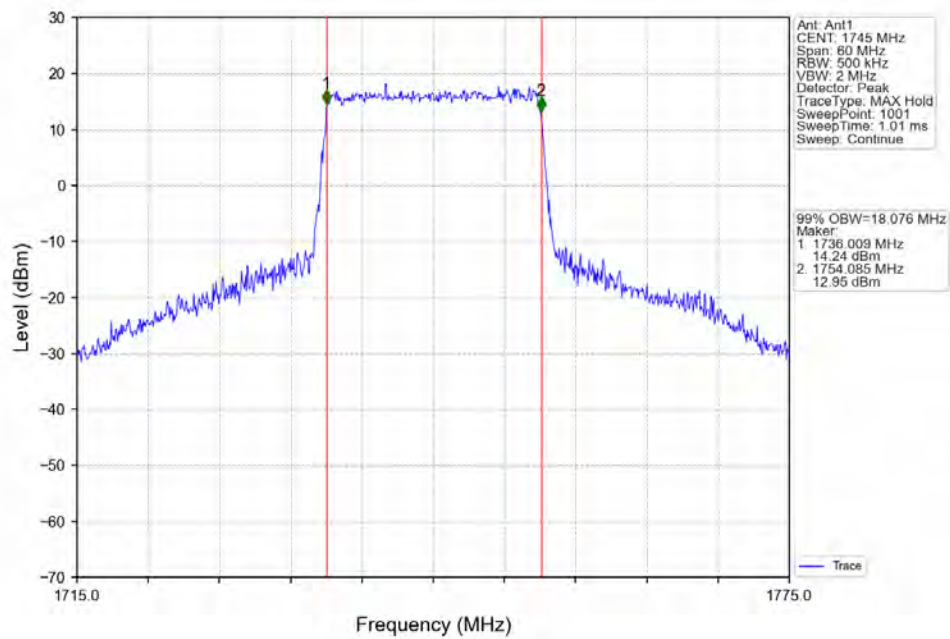
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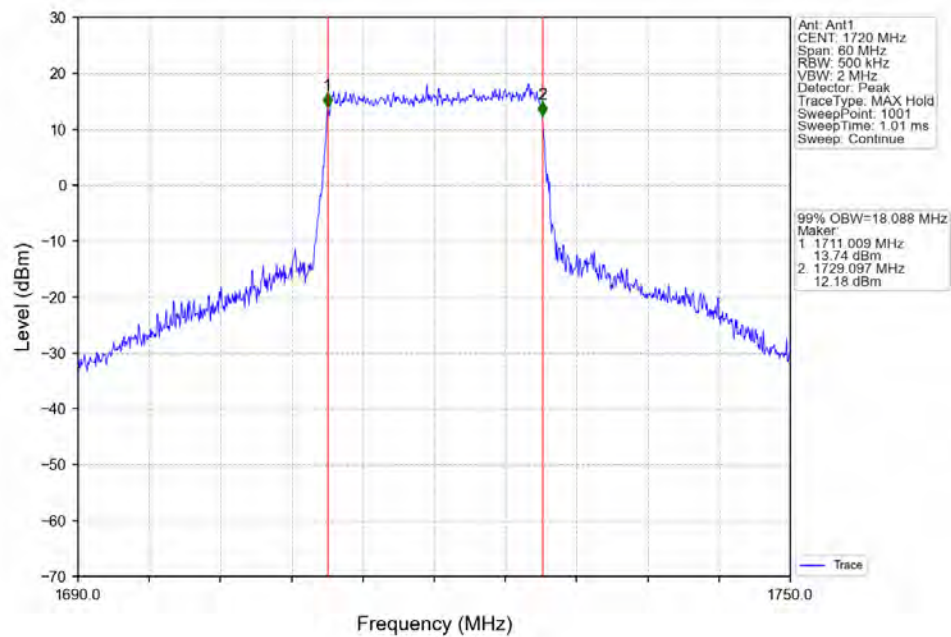
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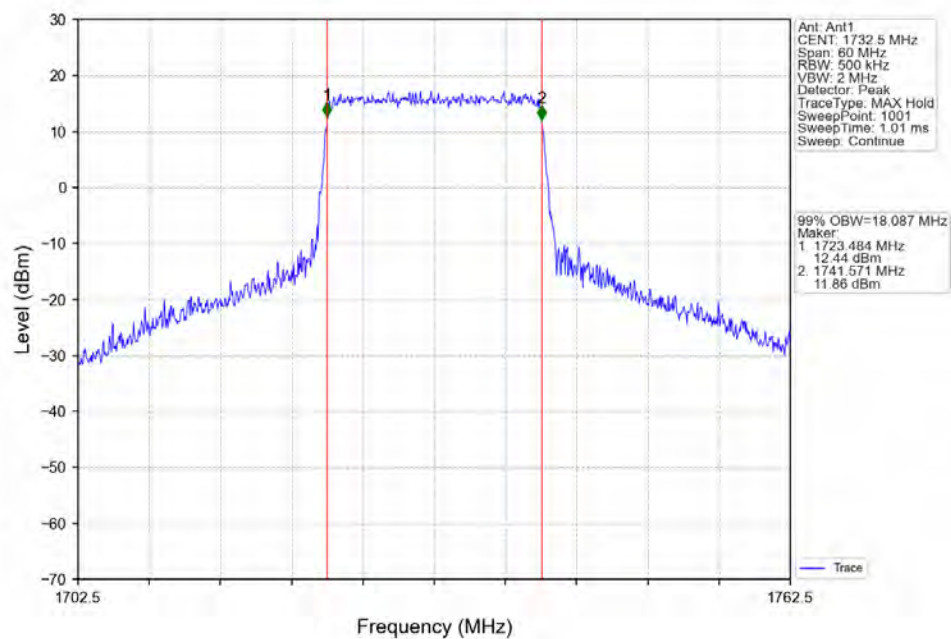
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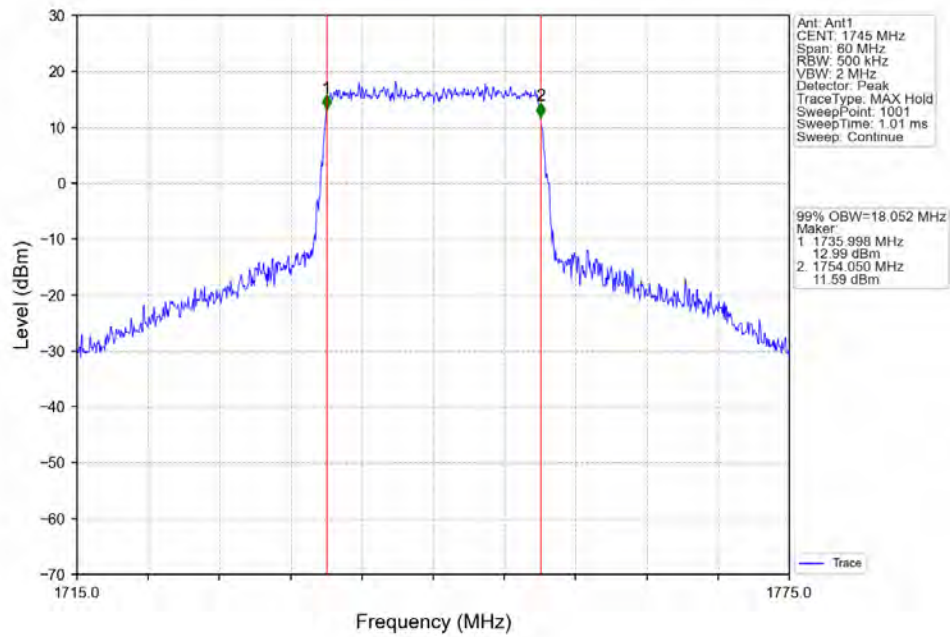
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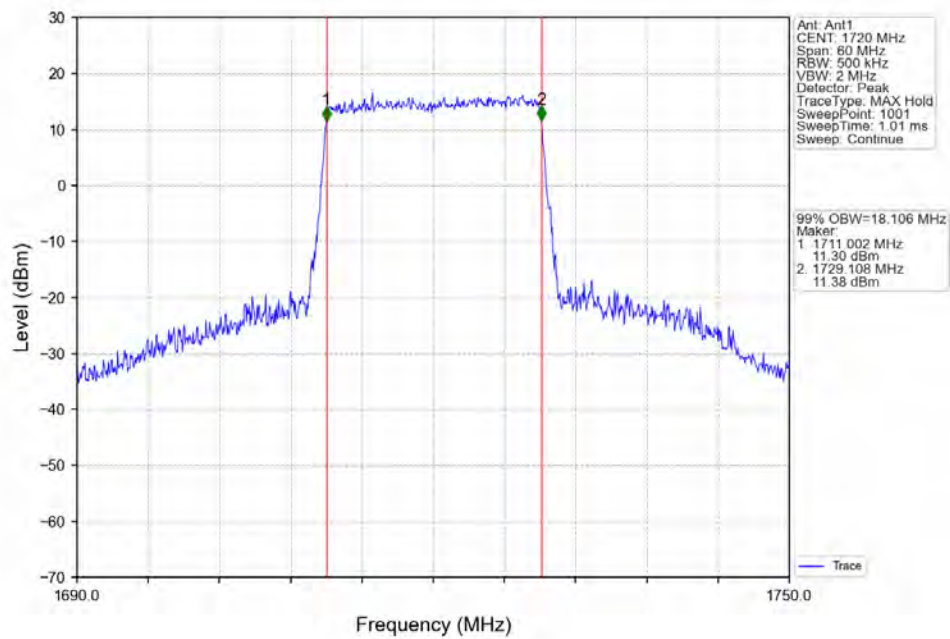
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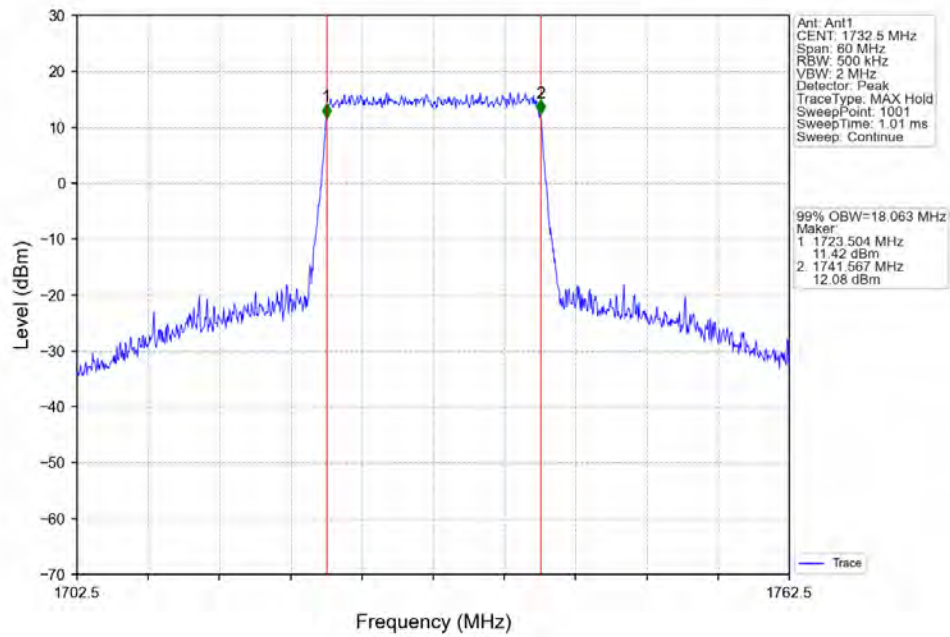
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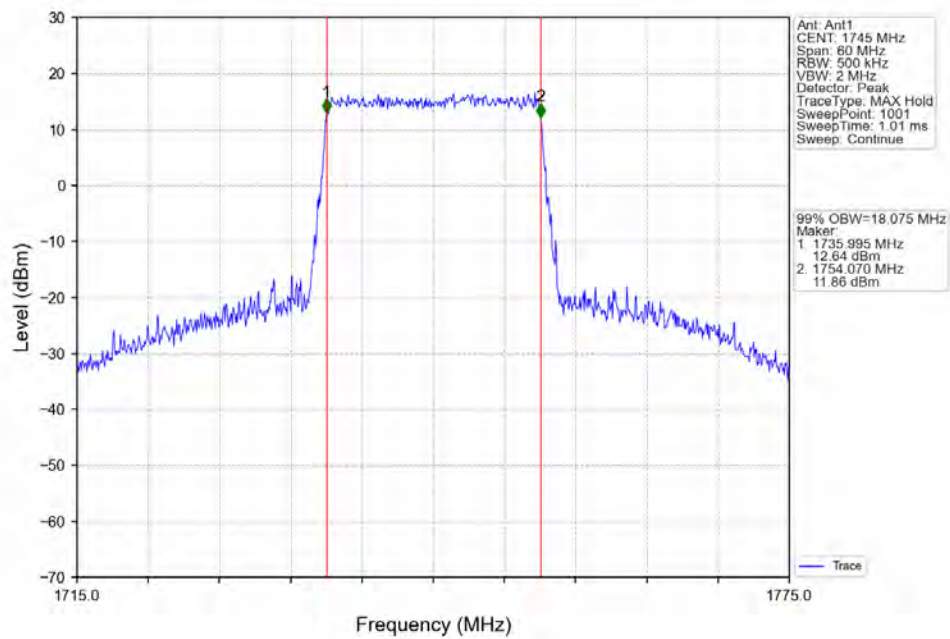
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Band4 20MHz 256QAM MCH 1732.5MHz RB 100 0 NTN



Band4_20MHz_256QAM_HCH_1745MHz_RB_100_0 NTN



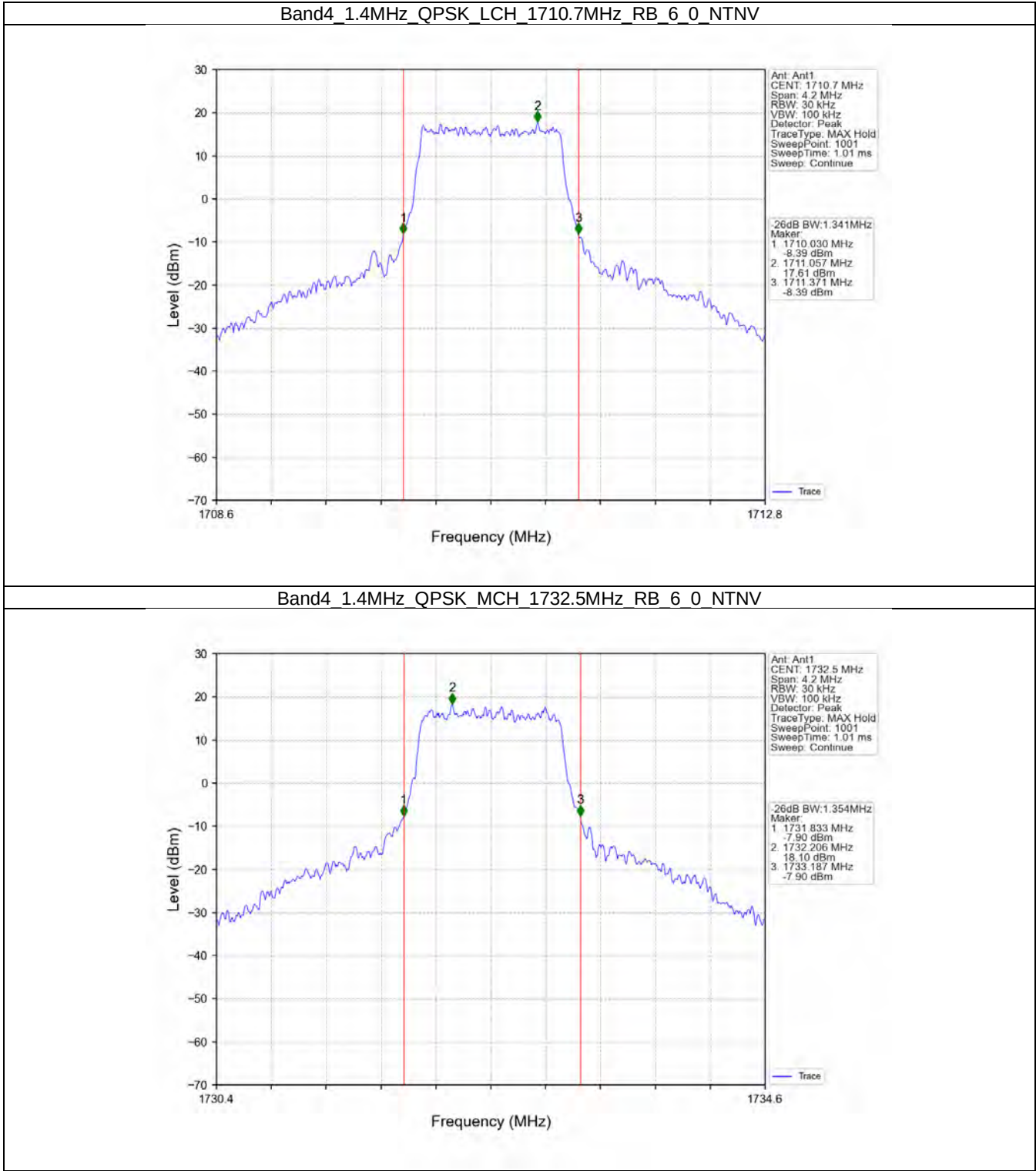
3.2 Band4_XDB

3.2.1 Test Result

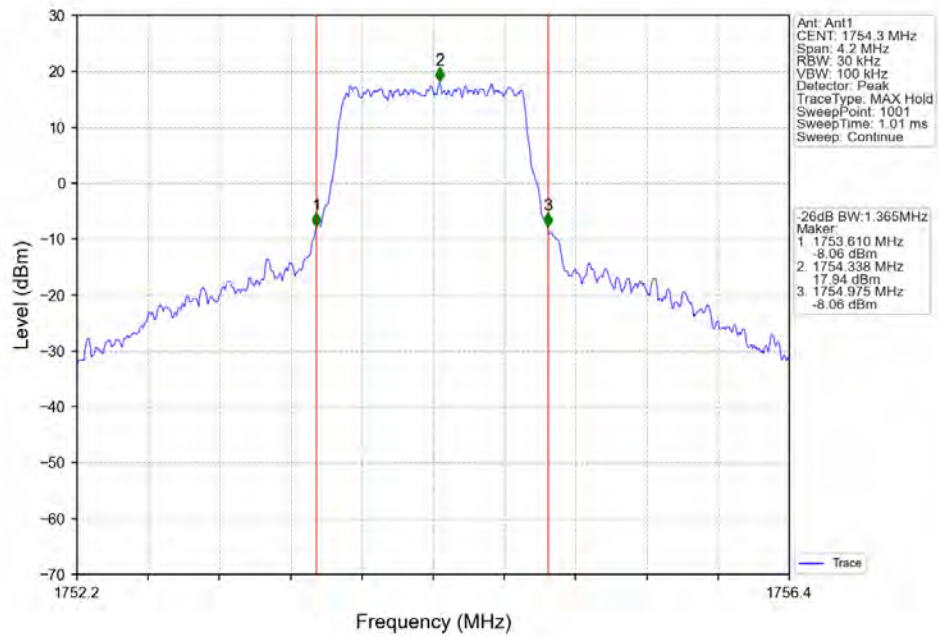
Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.341	/	Pass
		1732.5	6	0	1.354	/	Pass
		1754.3	6	0	1.365	/	Pass
	16QAM	1710.7	6	0	1.377	/	Pass
		1732.5	6	0	1.378	/	Pass
		1754.3	6	0	1.356	/	Pass
	64QAM	1710.7	6	0	1.387	/	Pass
		1732.5	6	0	1.328	/	Pass
		1754.3	6	0	1.382	/	Pass
	256QAM	1710.7	6	0	1.379	/	Pass
		1732.5	6	0	1.369	/	Pass
		1754.3	6	0	1.346	/	Pass
3	QPSK	1711.5	15	0	3.138	/	Pass
		1732.5	15	0	3.122	/	Pass
		1753.5	15	0	3.120	/	Pass
	16QAM	1711.5	15	0	3.096	/	Pass
		1732.5	15	0	3.108	/	Pass
		1753.5	15	0	3.145	/	Pass
	64QAM	1711.5	15	0	3.117	/	Pass
		1732.5	15	0	3.099	/	Pass
		1753.5	15	0	3.142	/	Pass
	256QAM	1711.5	15	0	3.116	/	Pass
		1732.5	15	0	3.102	/	Pass
		1753.5	15	0	3.136	/	Pass
5	QPSK	1712.5	25	0	5.156	/	Pass
		1732.5	25	0	5.049	/	Pass
		1752.5	25	0	5.154	/	Pass
	16QAM	1712.5	25	0	5.137	/	Pass
		1732.5	25	0	5.130	/	Pass
		1752.5	25	0	5.177	/	Pass
	64QAM	1712.5	25	0	5.194	/	Pass
		1732.5	25	0	5.025	/	Pass
		1752.5	25	0	5.112	/	Pass
	256QAM	1712.5	25	0	5.075	/	Pass
		1732.5	25	0	5.154	/	Pass
		1752.5	25	0	5.146	/	Pass
10	QPSK	1715	50	0	9.977	/	Pass
		1732.5	50	0	10.174	/	Pass
		1750	50	0	10.144	/	Pass
	16QAM	1715	50	0	10.015	/	Pass
		1732.5	50	0	9.900	/	Pass
		1750	50	0	9.991	/	Pass
	64QAM	1715	50	0	9.988	/	Pass
		1732.5	50	0	9.812	/	Pass
		1750	50	0	9.891	/	Pass
	256QAM	1715	50	0	9.997	/	Pass
		1732.5	50	0	9.957	/	Pass
		1750	50	0	9.906	/	Pass
15	QPSK	1717.5	75	0	14.912	/	Pass

		1732.5	75	0	15.064	/	Pass
		1747.5	75	0	14.973	/	Pass
		1717.5	75	0	14.950	/	Pass
	16QAM	1732.5	75	0	15.100	/	Pass
		1747.5	75	0	14.834	/	Pass
		1717.5	75	0	14.973	/	Pass
	64QAM	1732.5	75	0	14.886	/	Pass
		1747.5	75	0	15.169	/	Pass
		1717.5	75	0	14.956	/	Pass
	256QAM	1732.5	75	0	14.945	/	Pass
		1747.5	75	0	14.892	/	Pass
		1717.5	75	0	14.956	/	Pass
20	QPSK	1720	100	0	19.837	/	Pass
		1732.5	100	0	19.981	/	Pass
		1745	100	0	20.191	/	Pass
	16QAM	1720	100	0	19.915	/	Pass
		1732.5	100	0	20.160	/	Pass
		1745	100	0	19.935	/	Pass
	64QAM	1720	100	0	20.013	/	Pass
		1732.5	100	0	20.023	/	Pass
		1745	100	0	19.829	/	Pass
	256QAM	1720	100	0	19.915	/	Pass
		1732.5	100	0	19.887	/	Pass
		1745	100	0	20.010	/	Pass

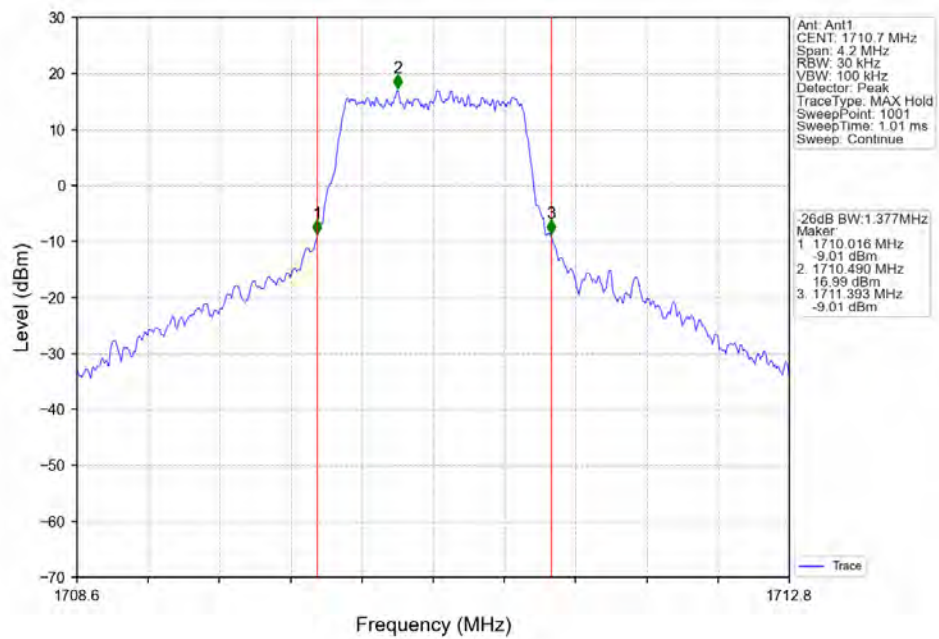
3.2.2 Test Graph



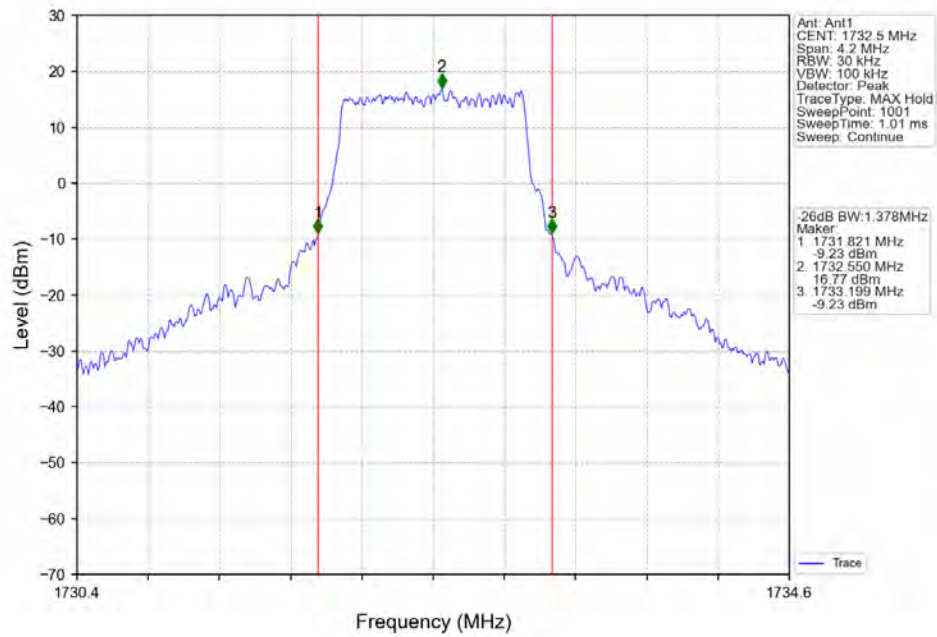
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



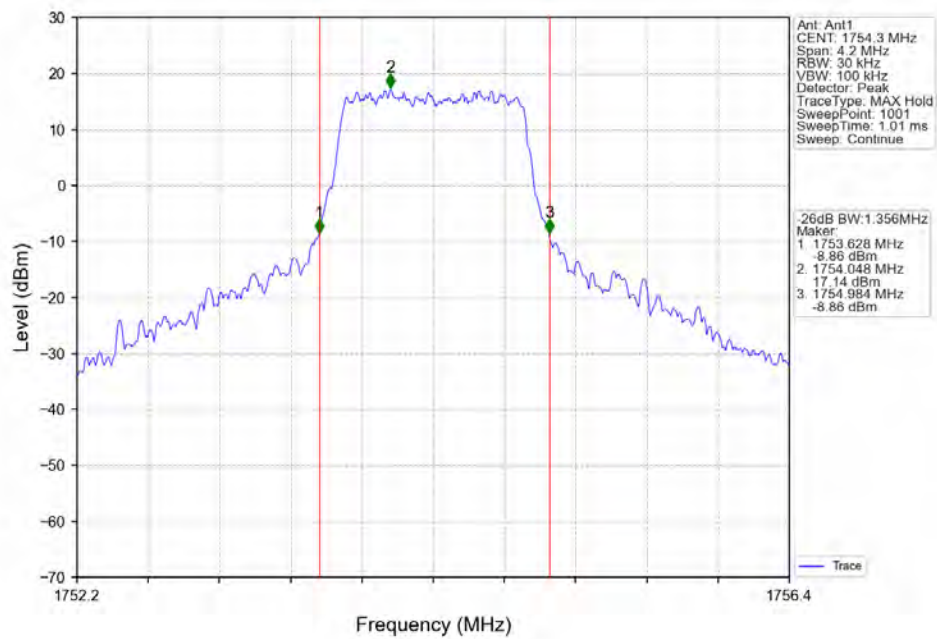
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



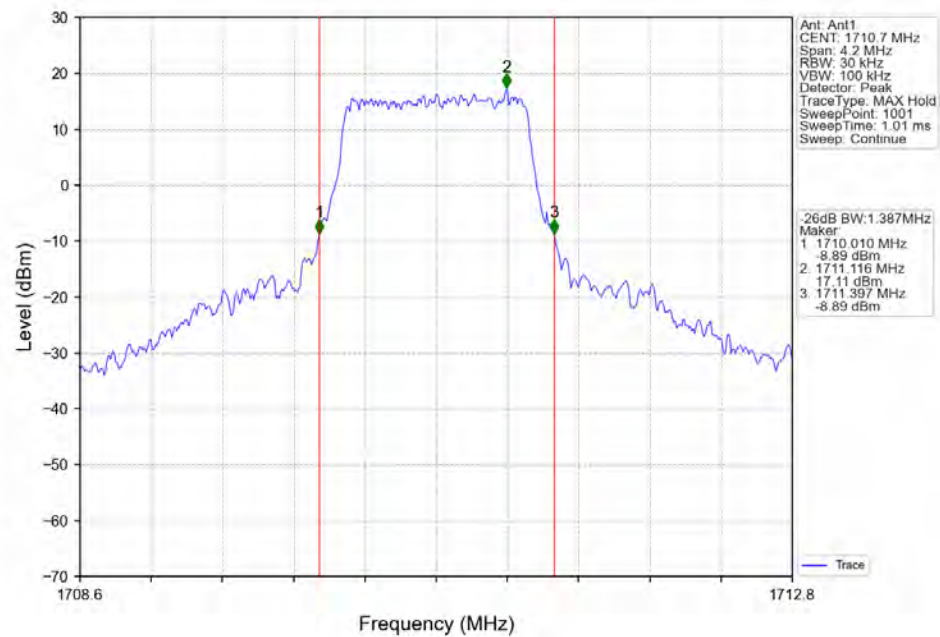
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



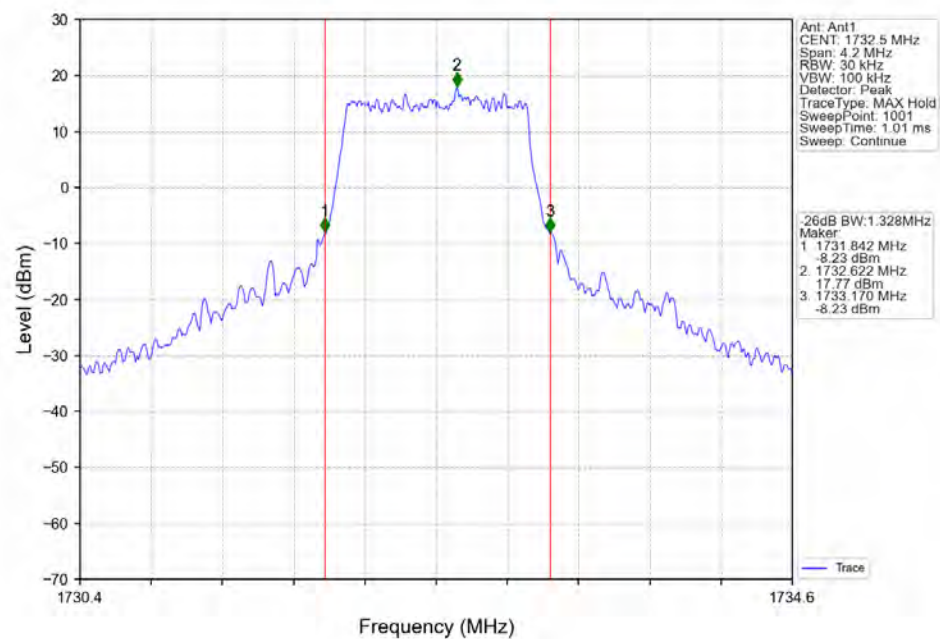
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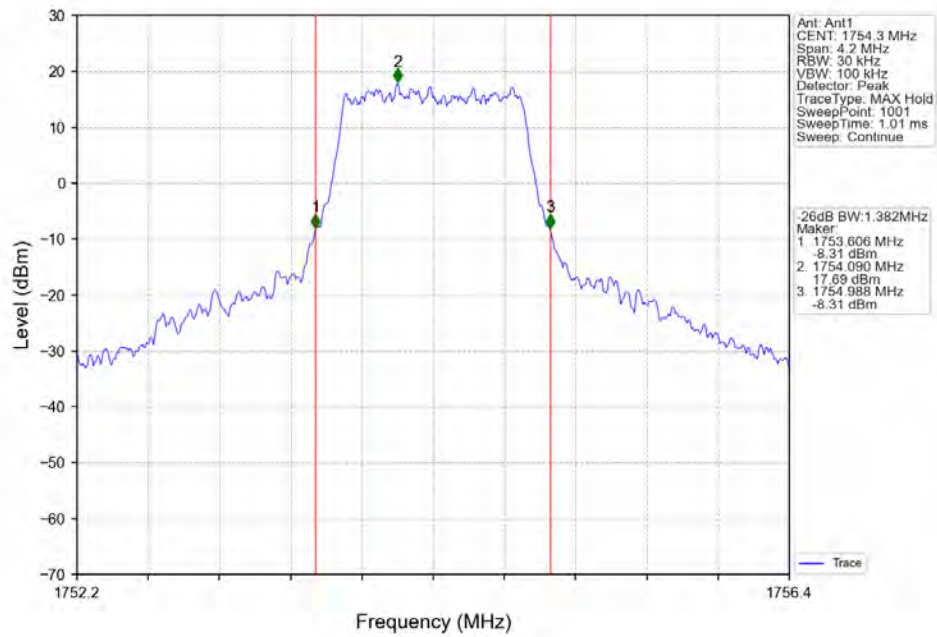
Band4 1.4MHz 64QAM LCH 1710.7MHz RB 6 0 NTNV



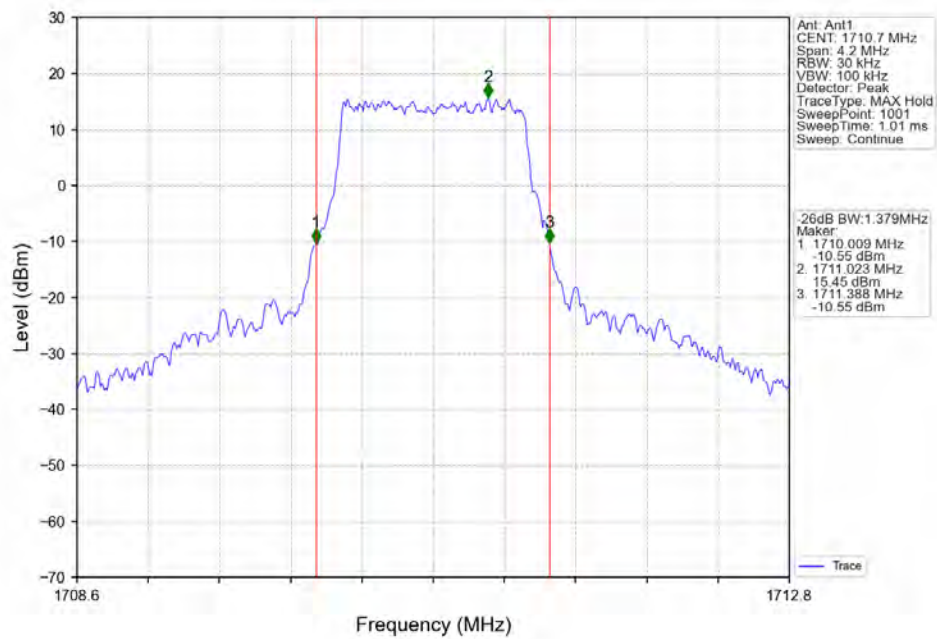
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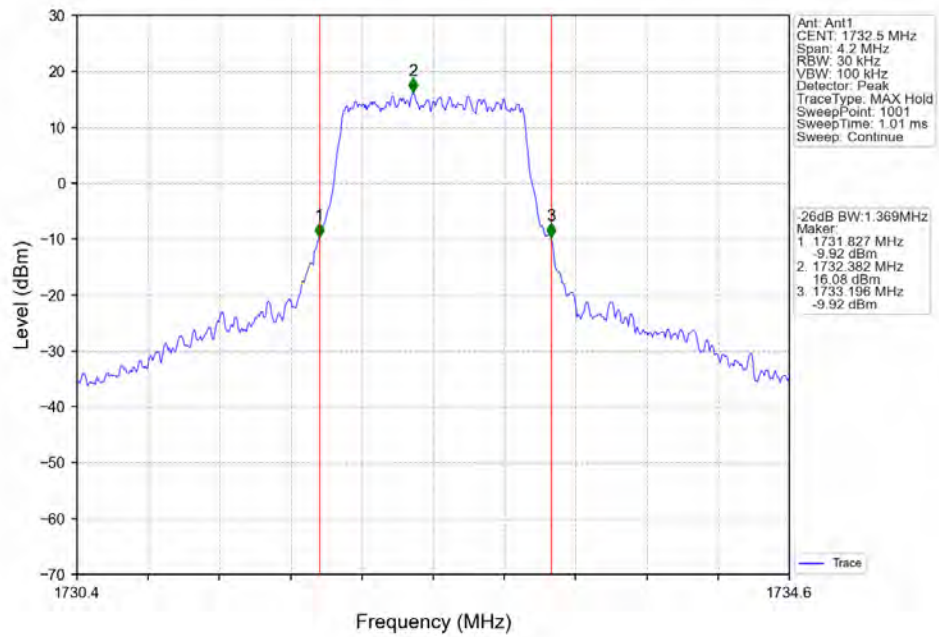
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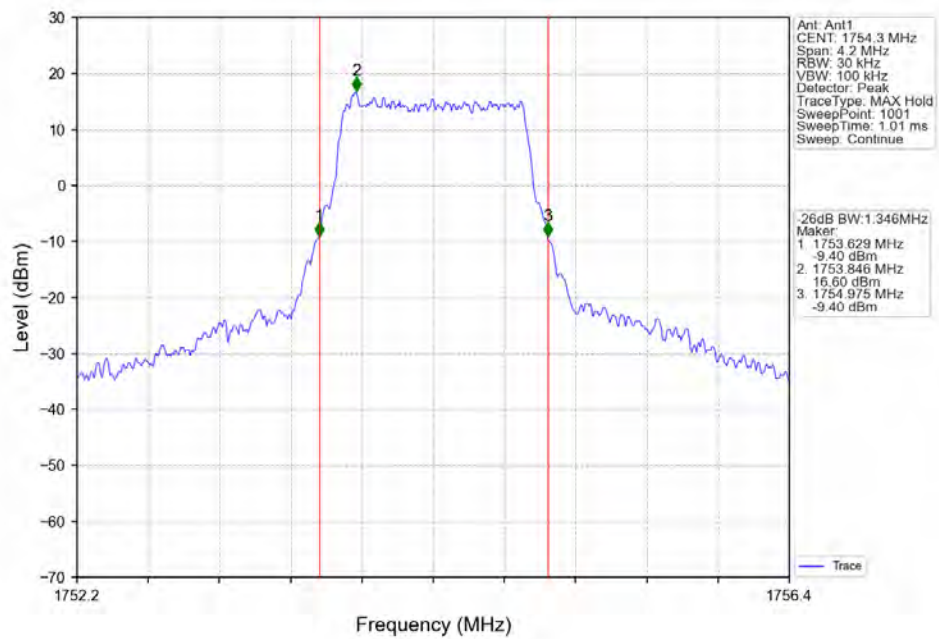
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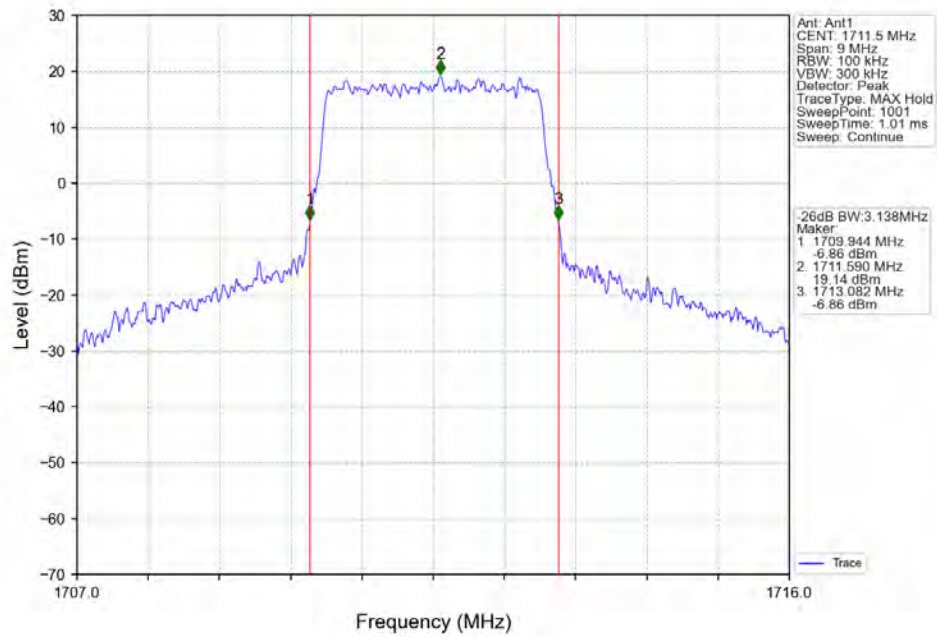
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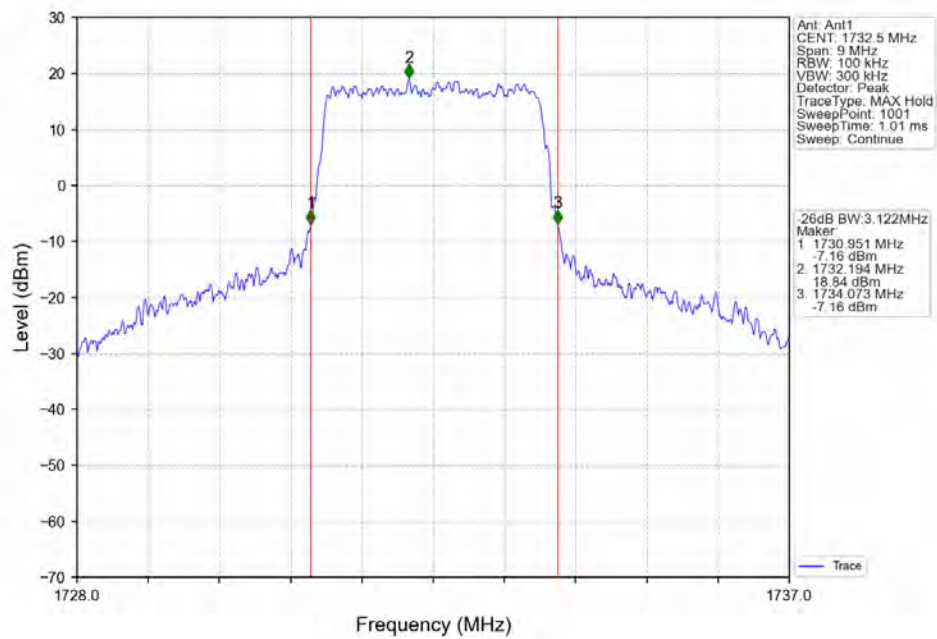
Band4 1.4MHz 256QAM HCH 1754.3MHz RB 6 0 NTN



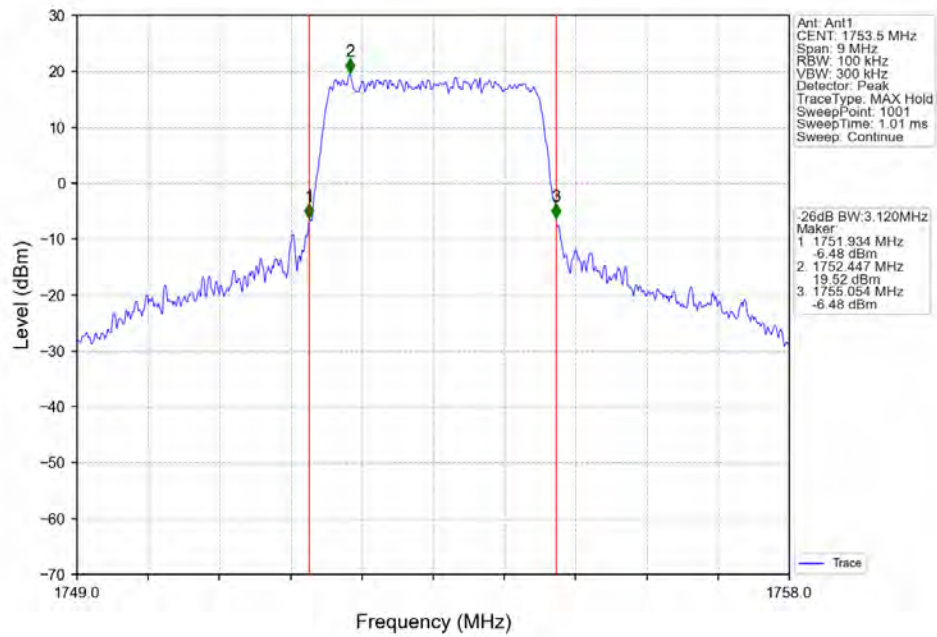
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV



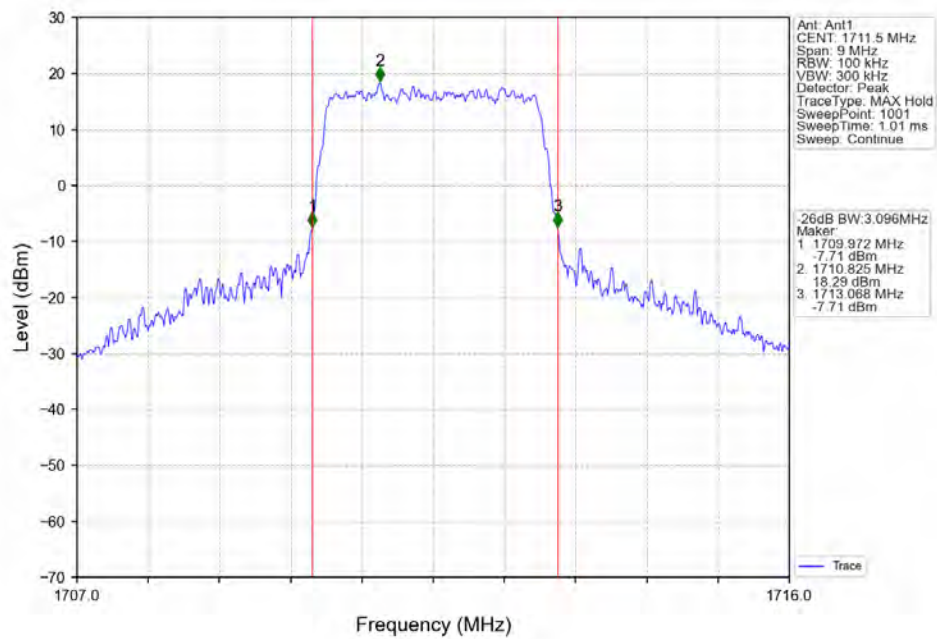
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



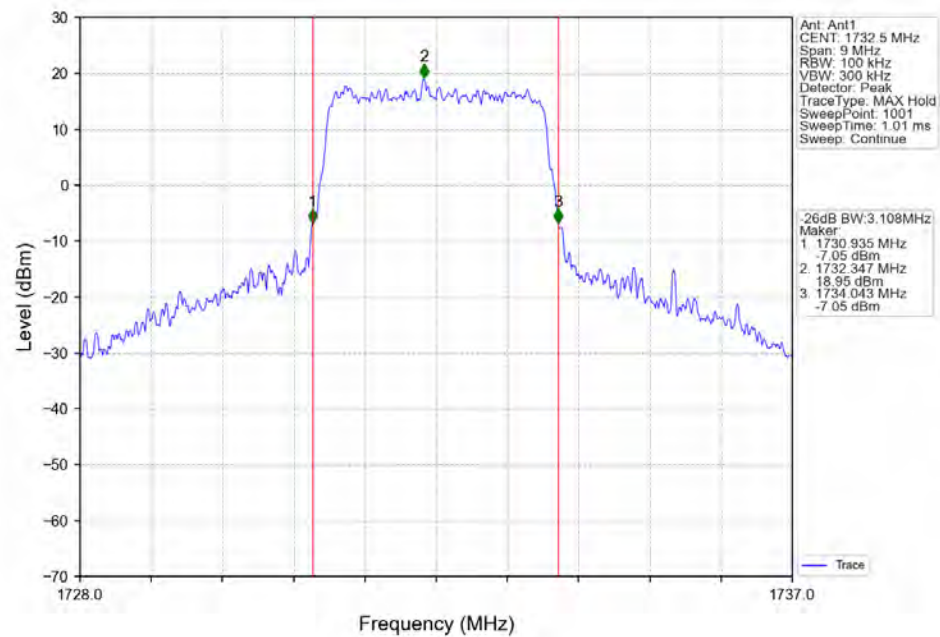
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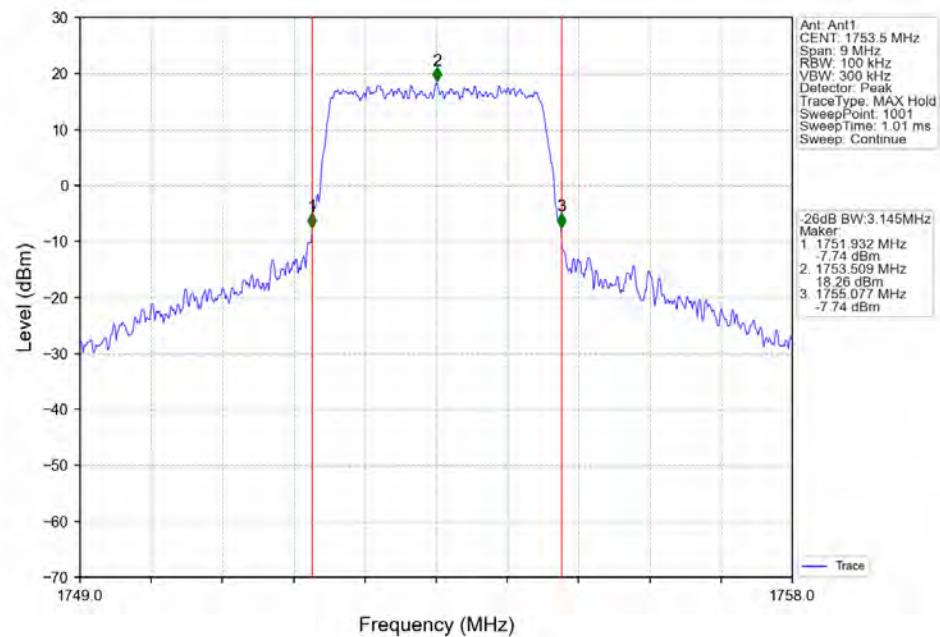
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



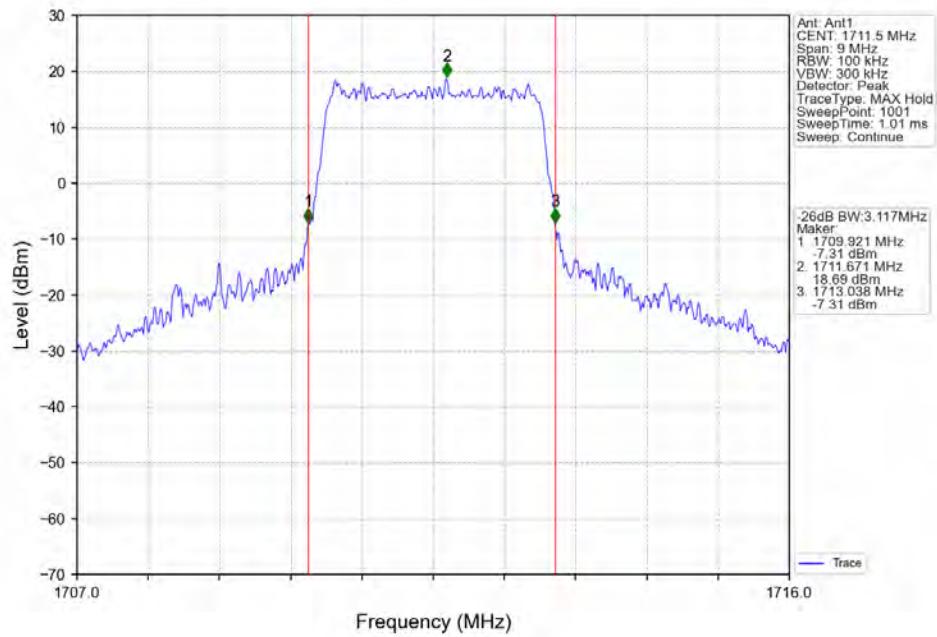
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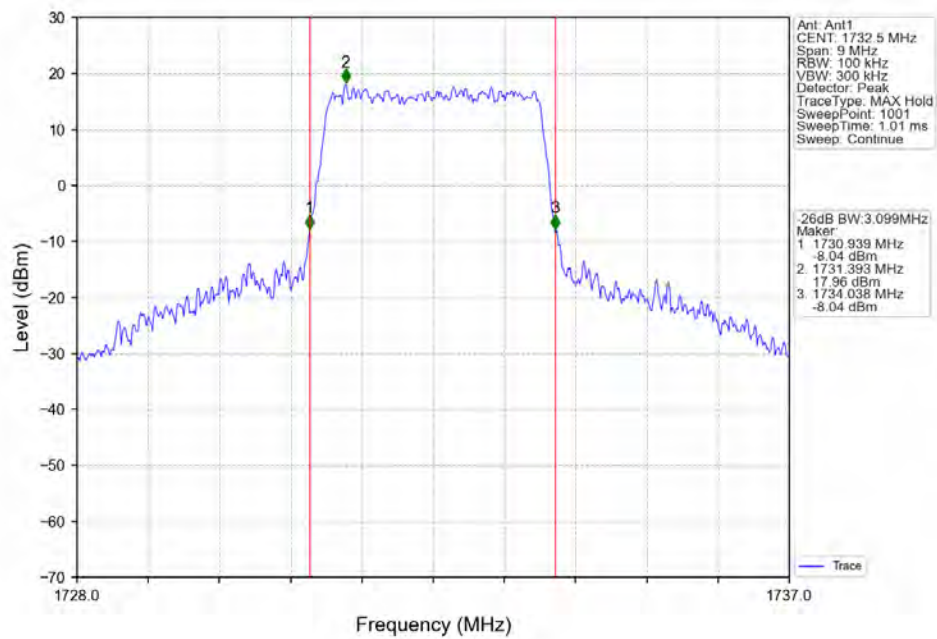
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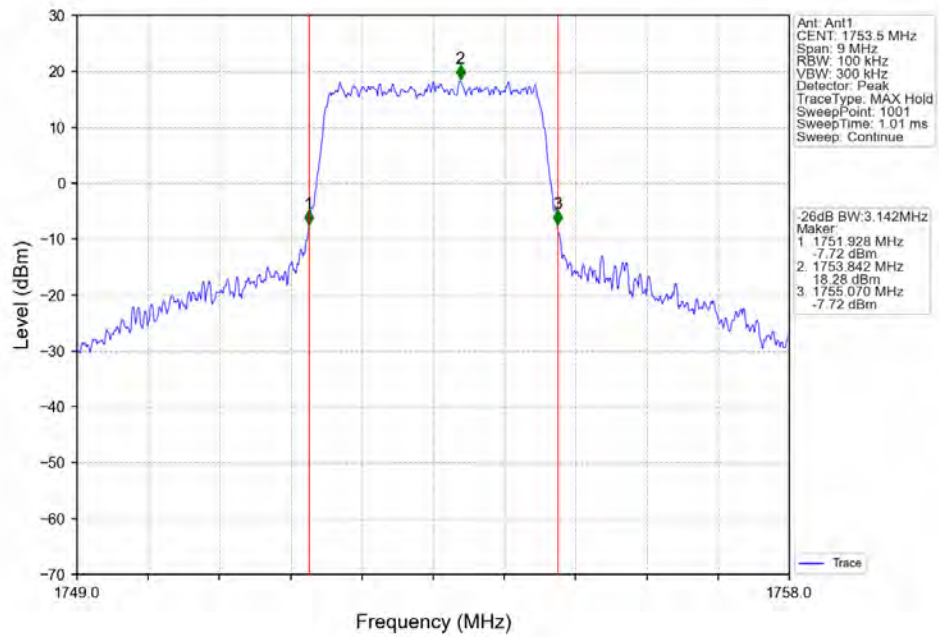
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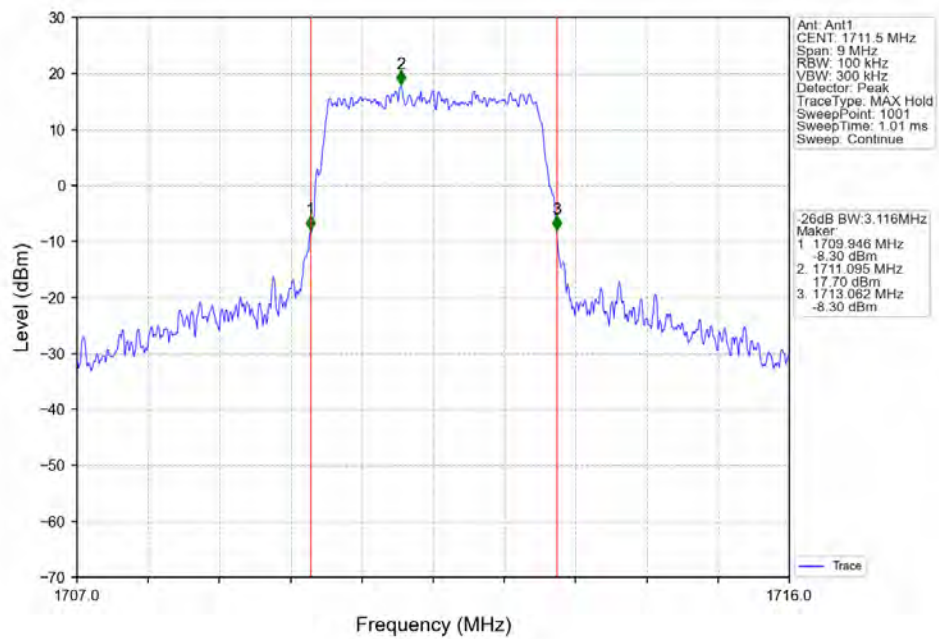
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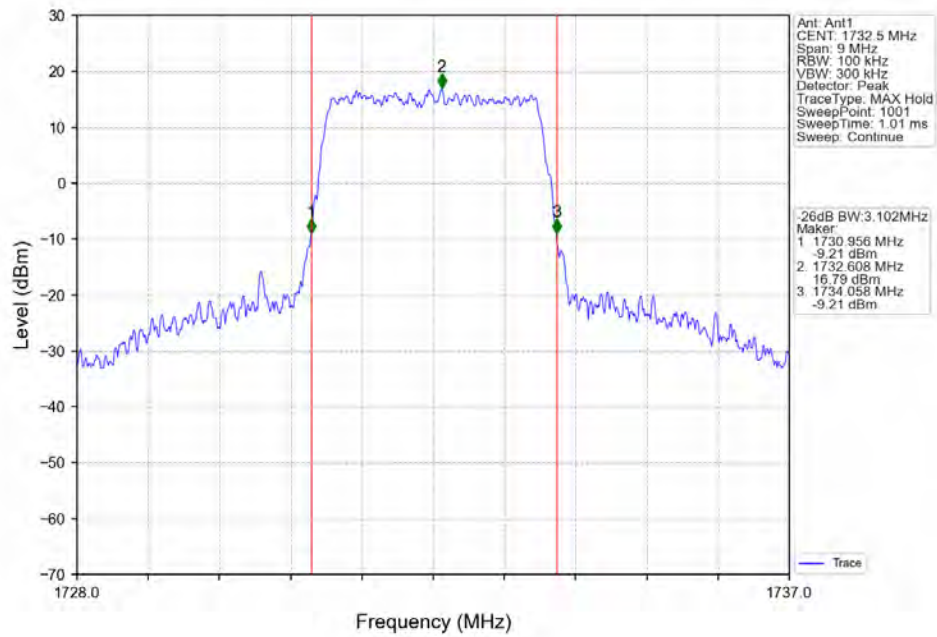
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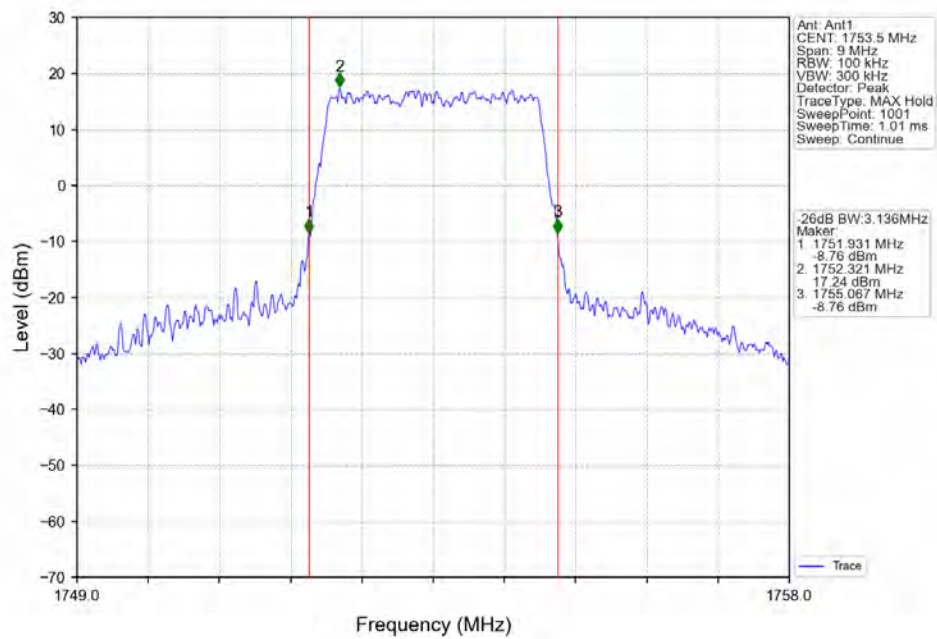
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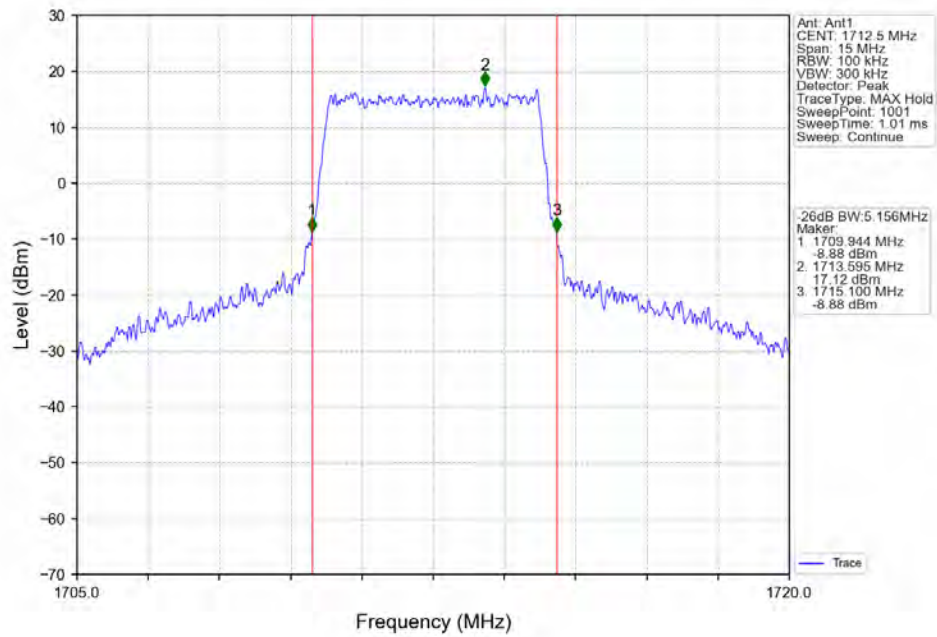
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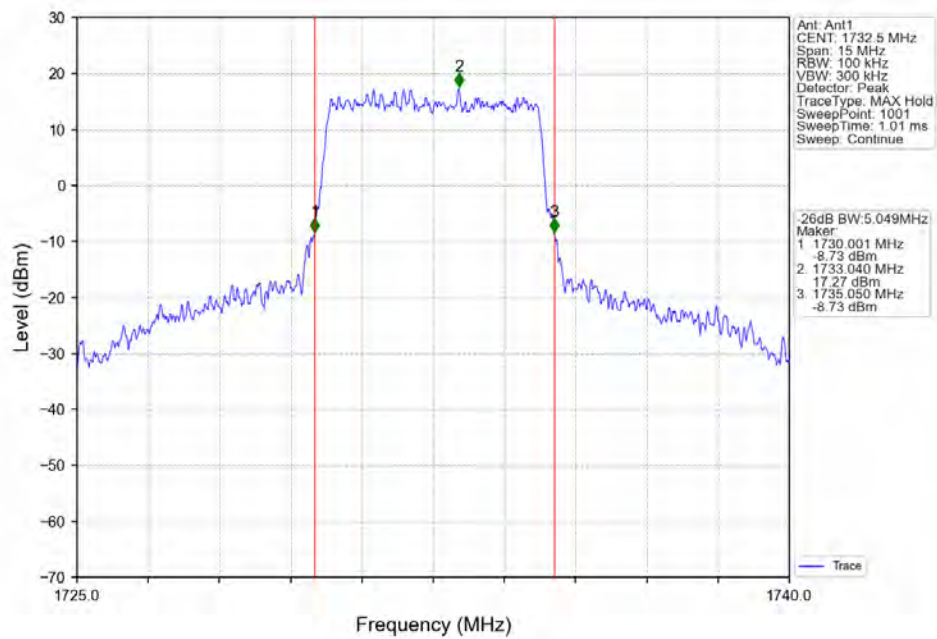
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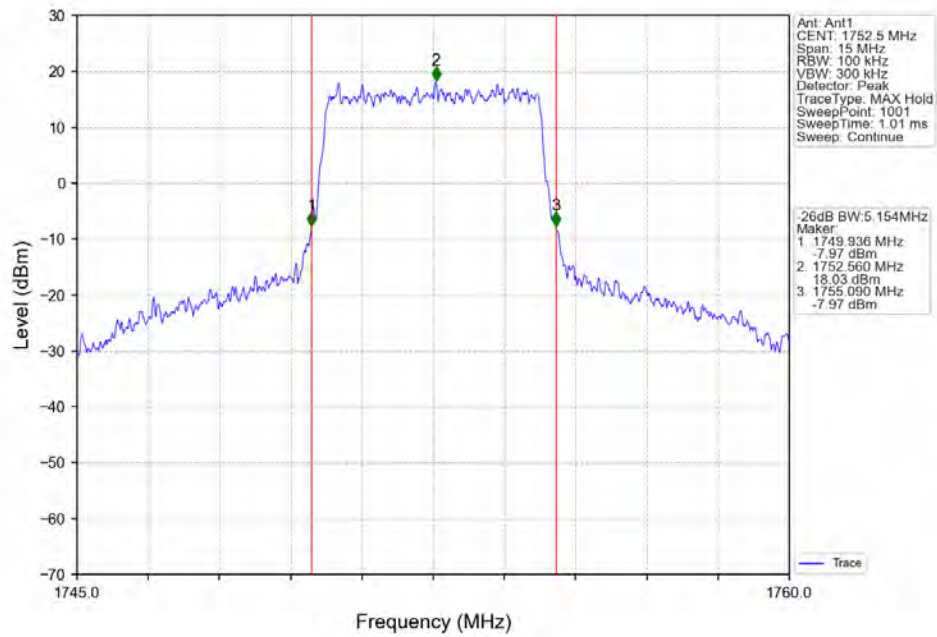
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTN



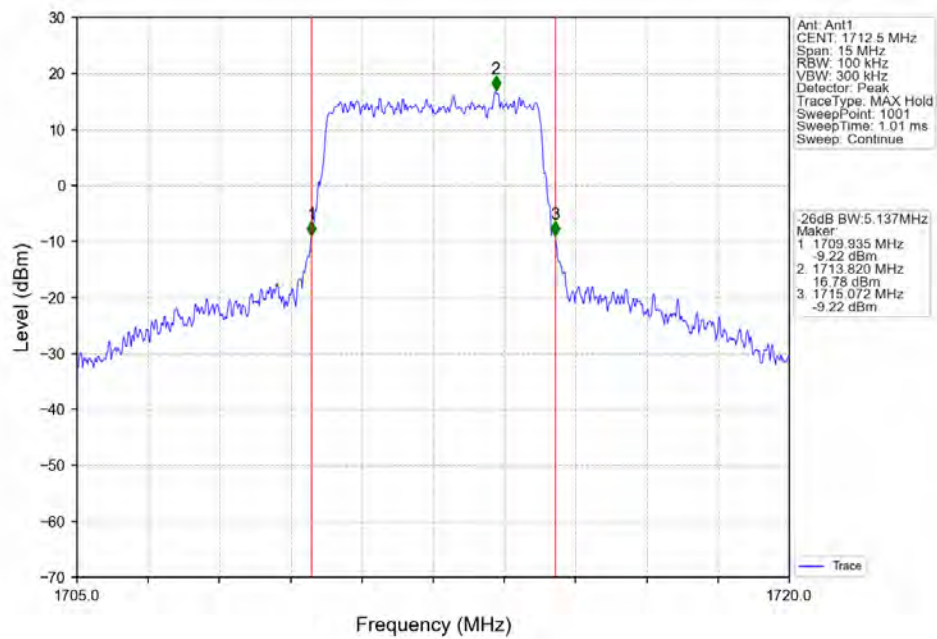
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTN



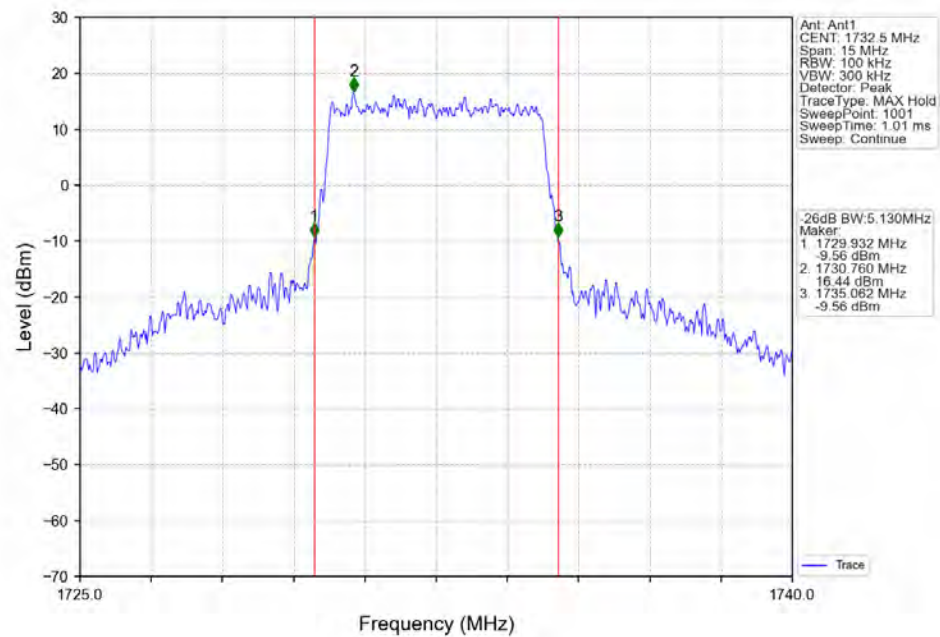
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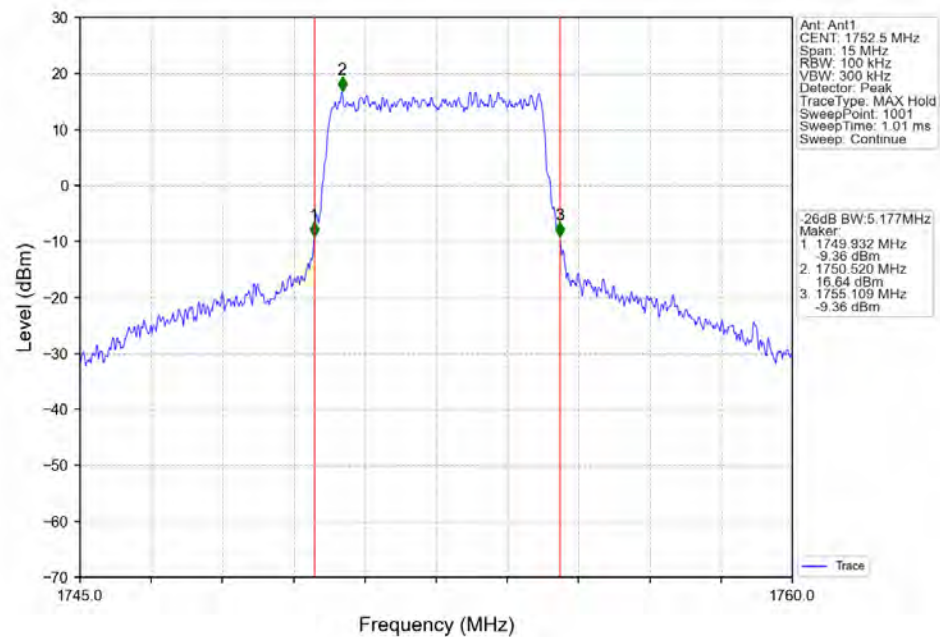
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



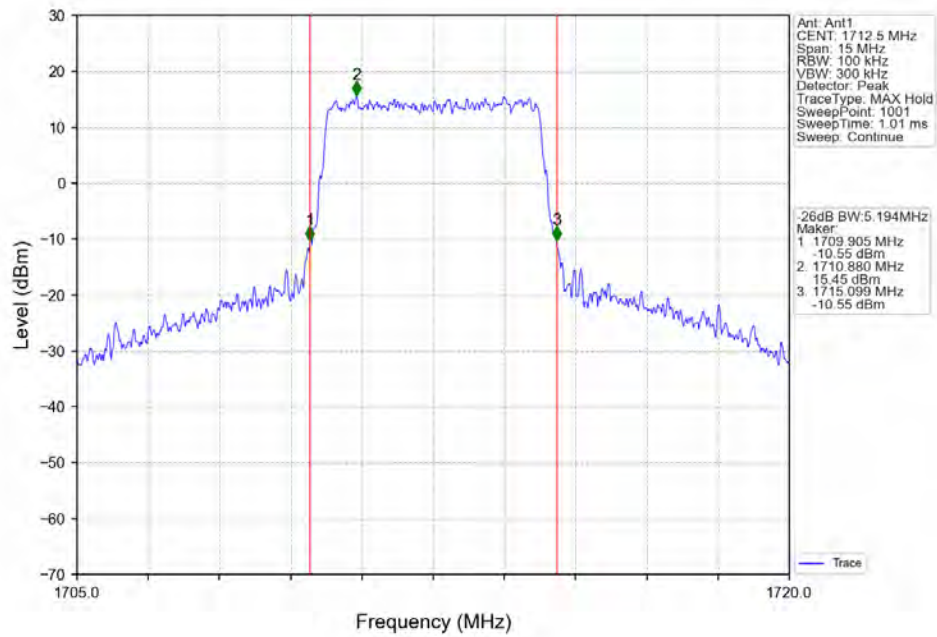
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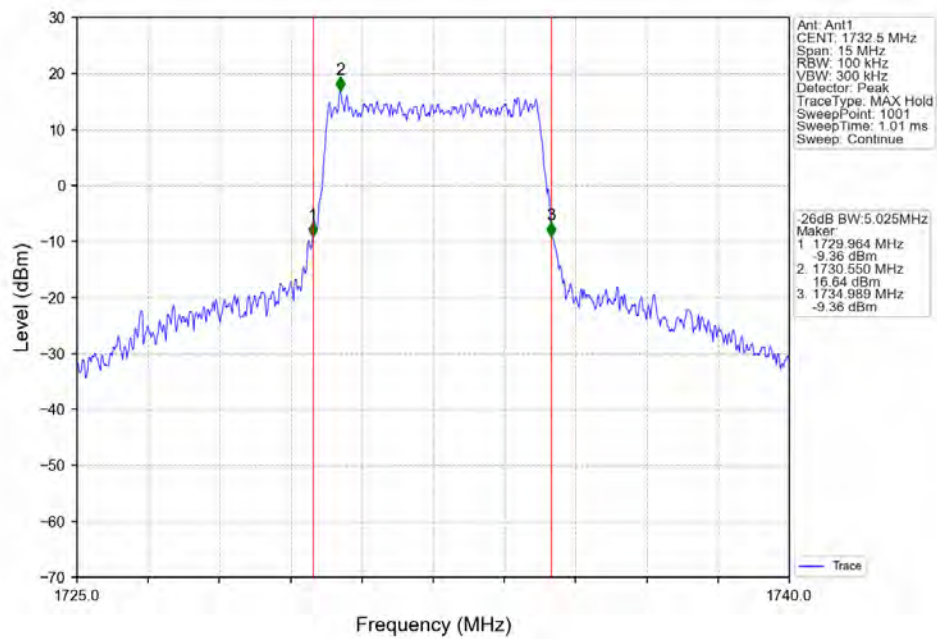
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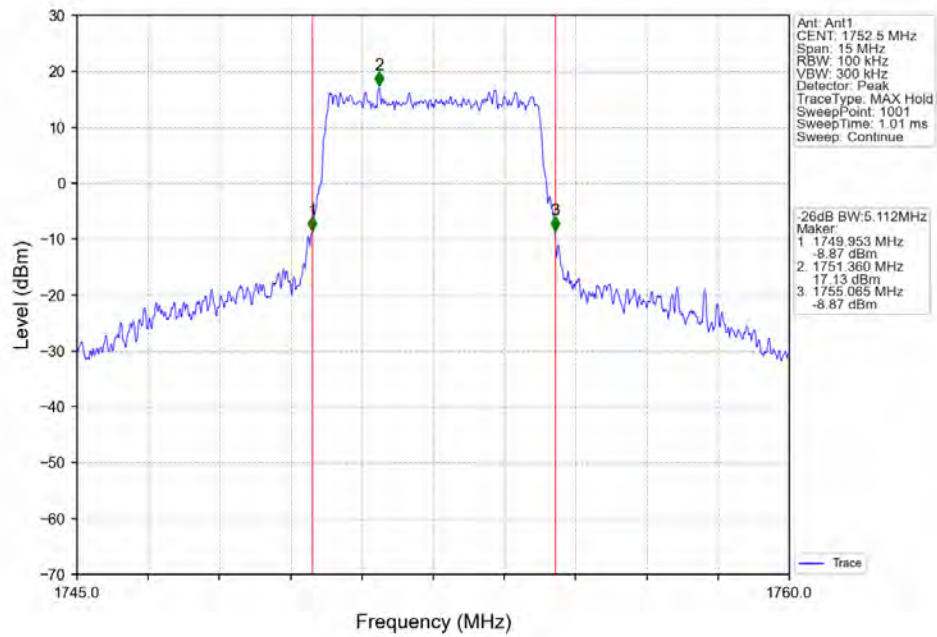
Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



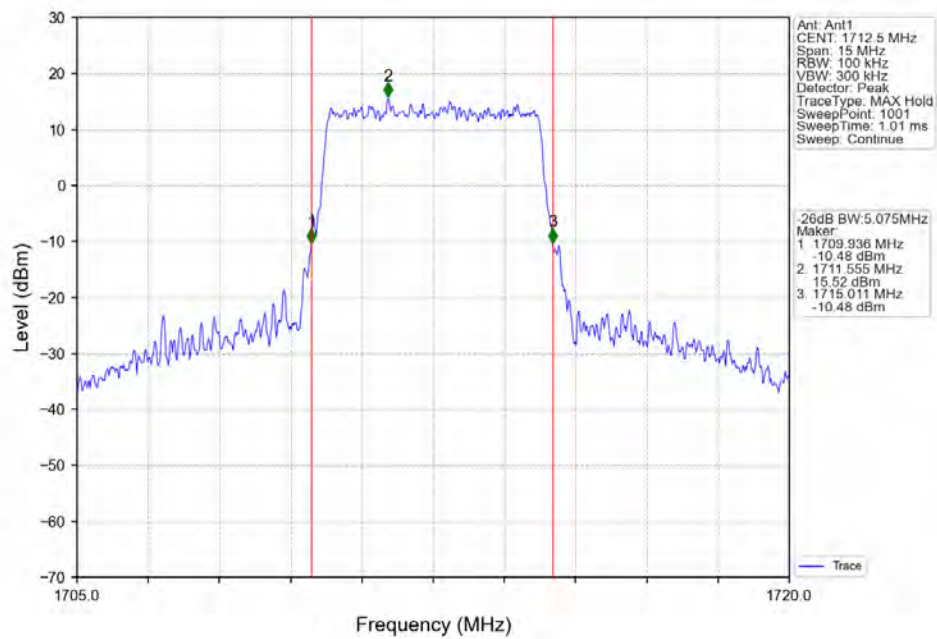
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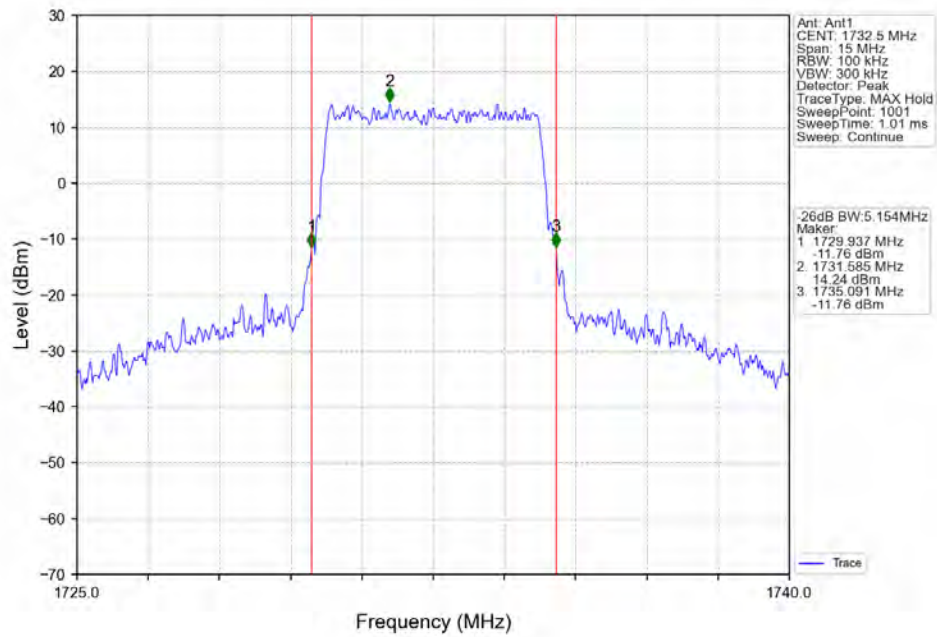
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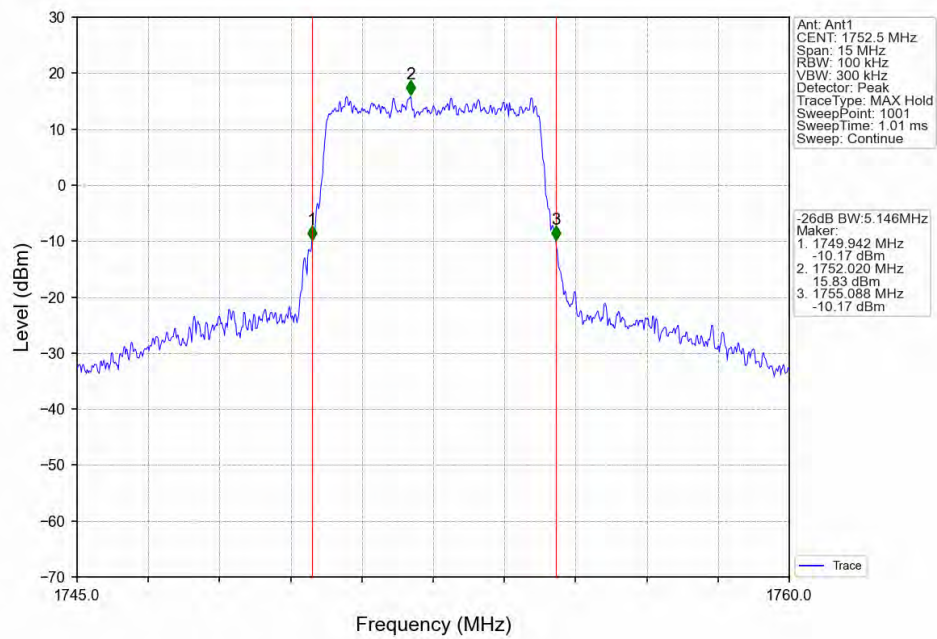
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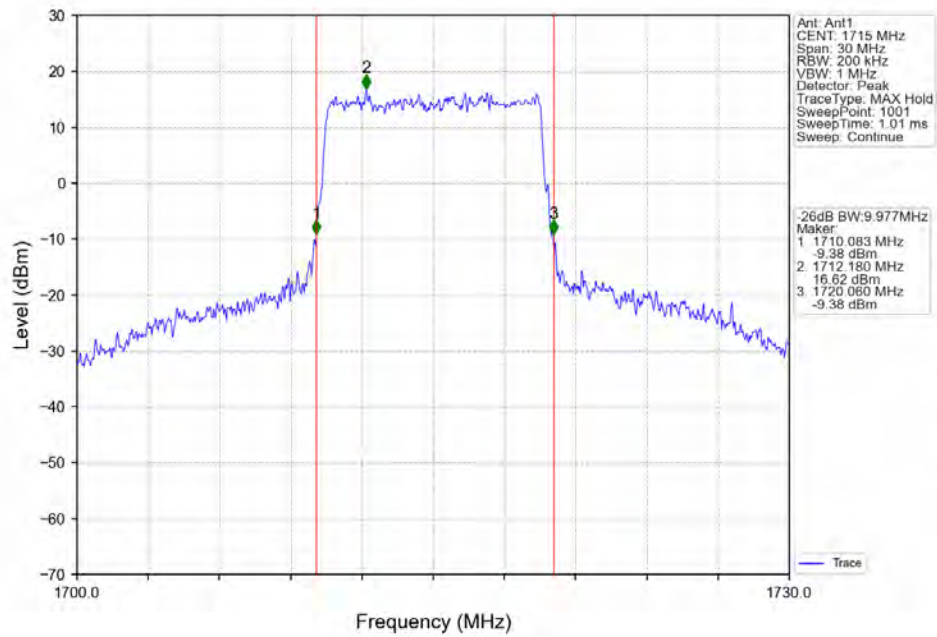
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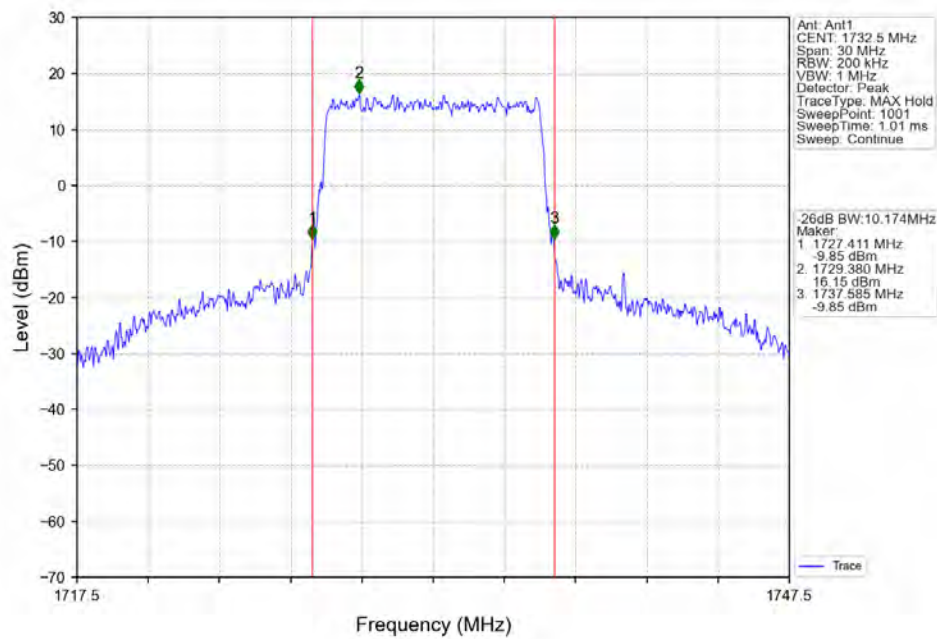
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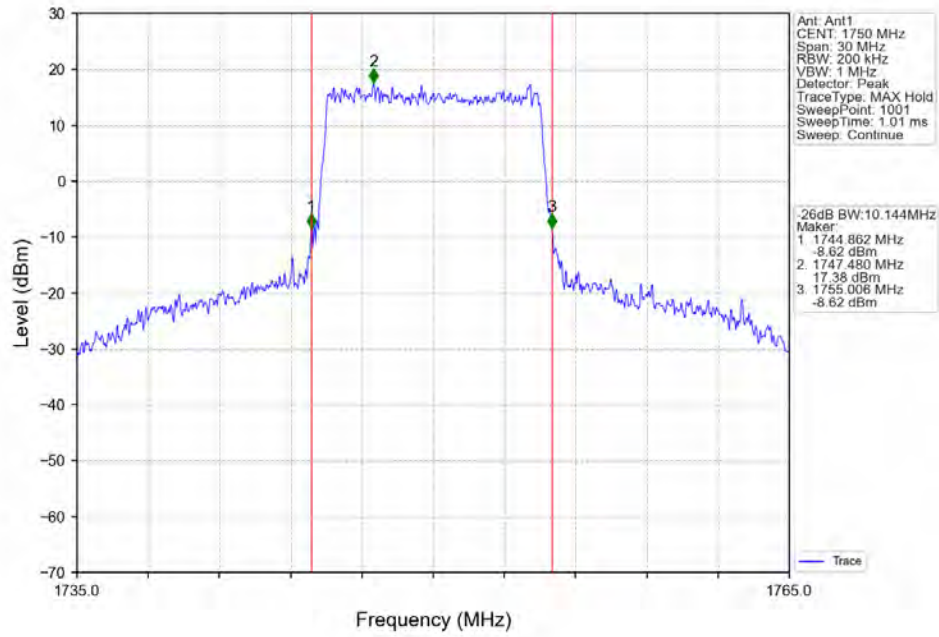
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



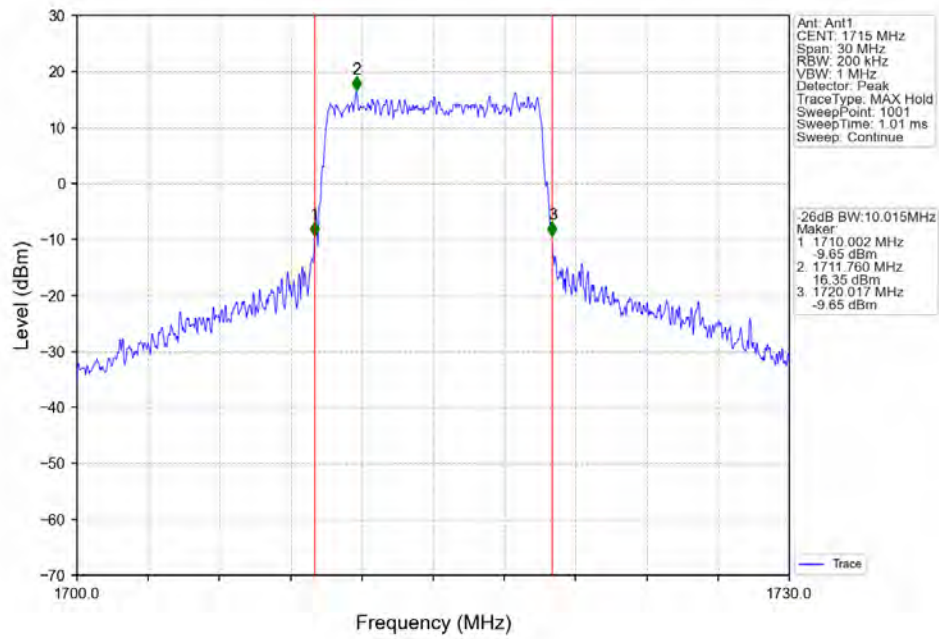
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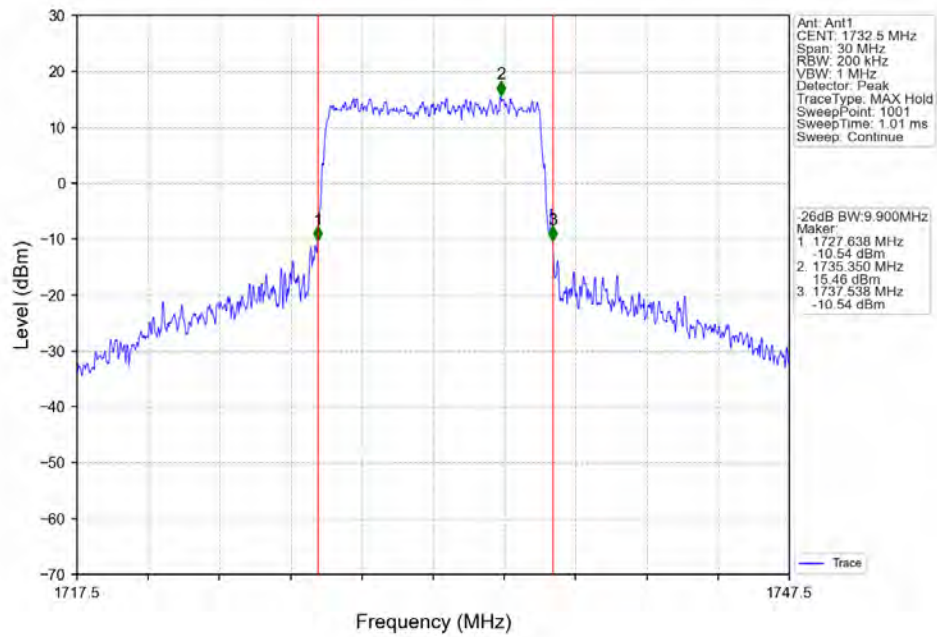
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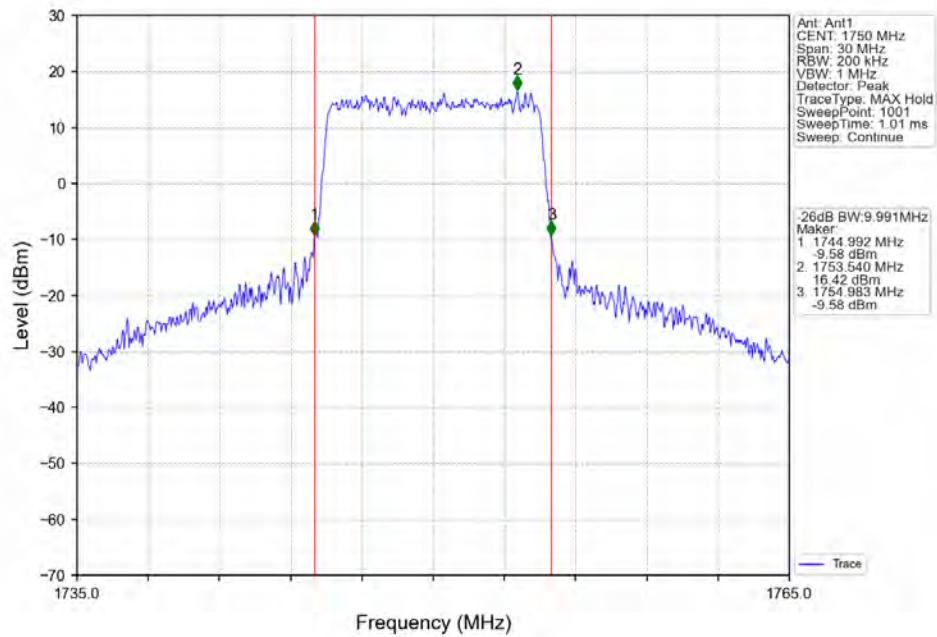
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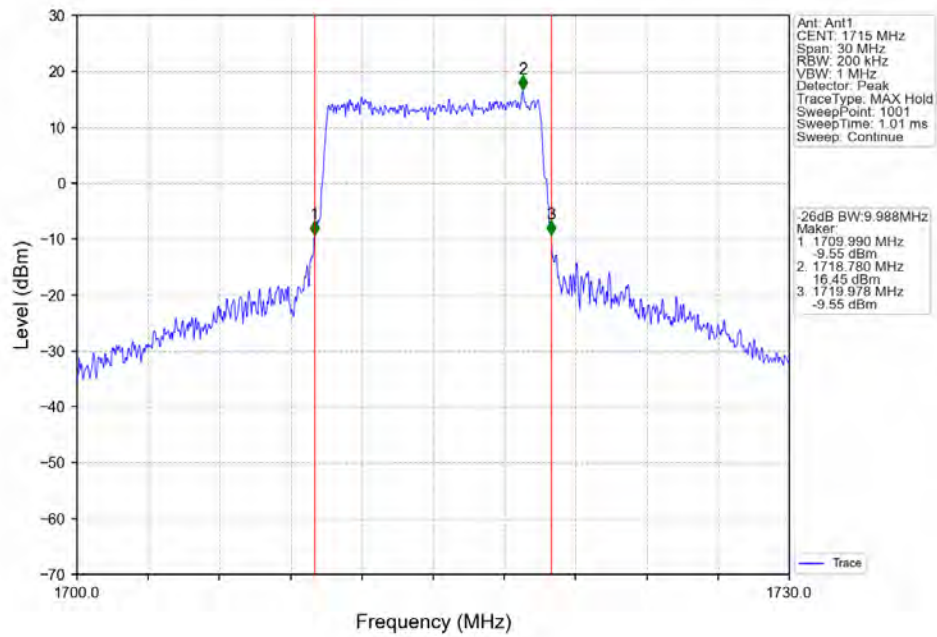
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTNV



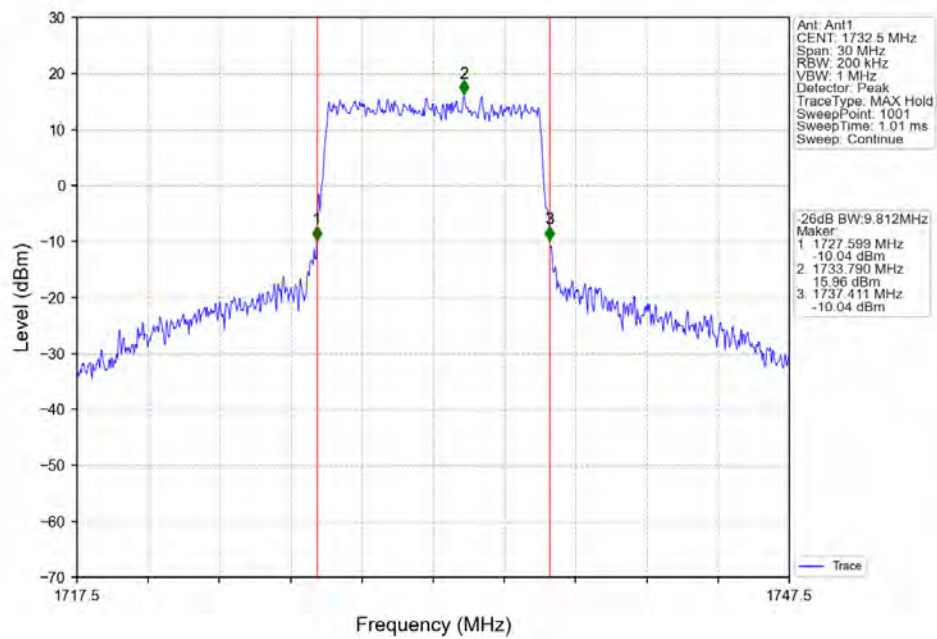
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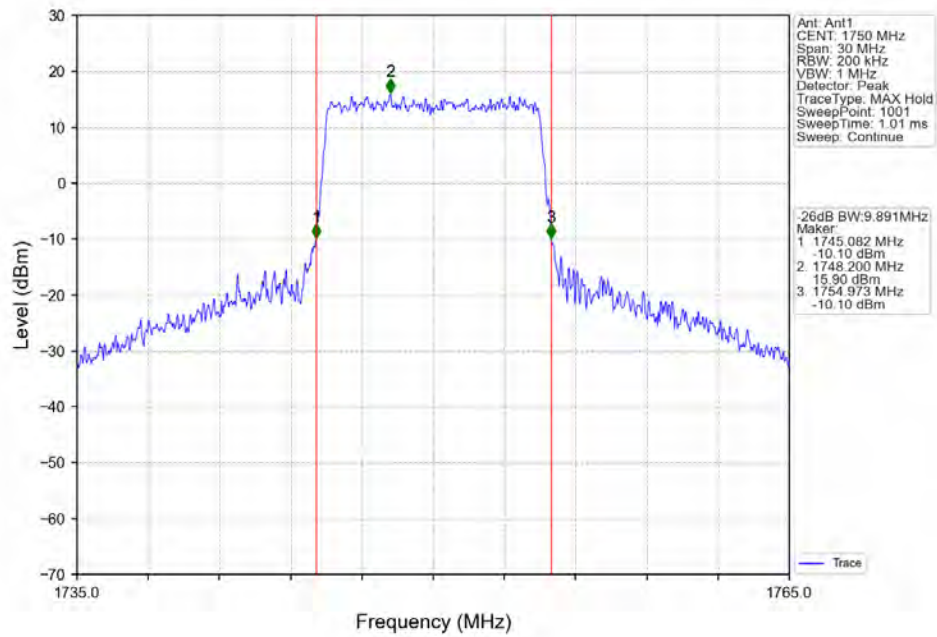
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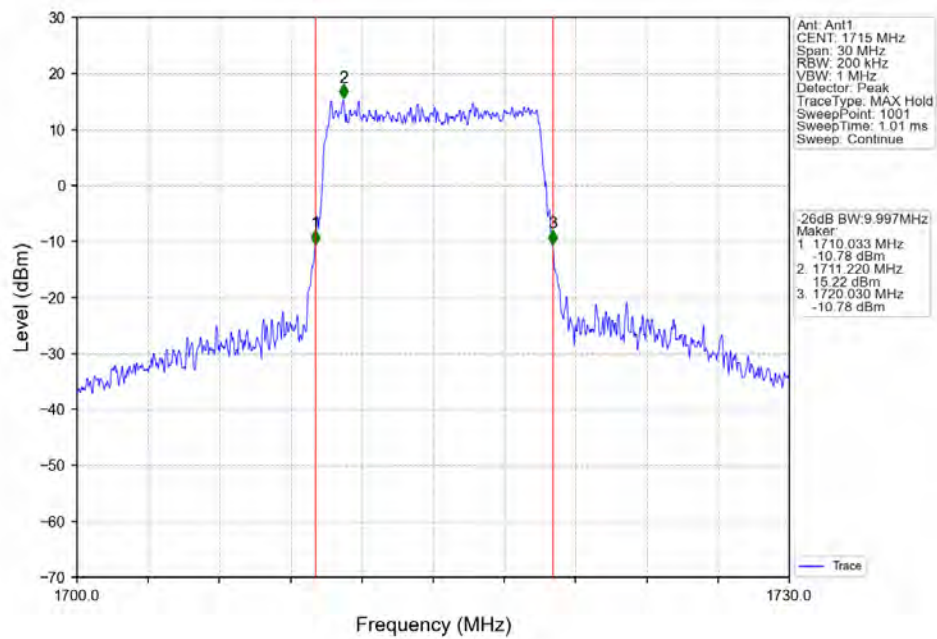
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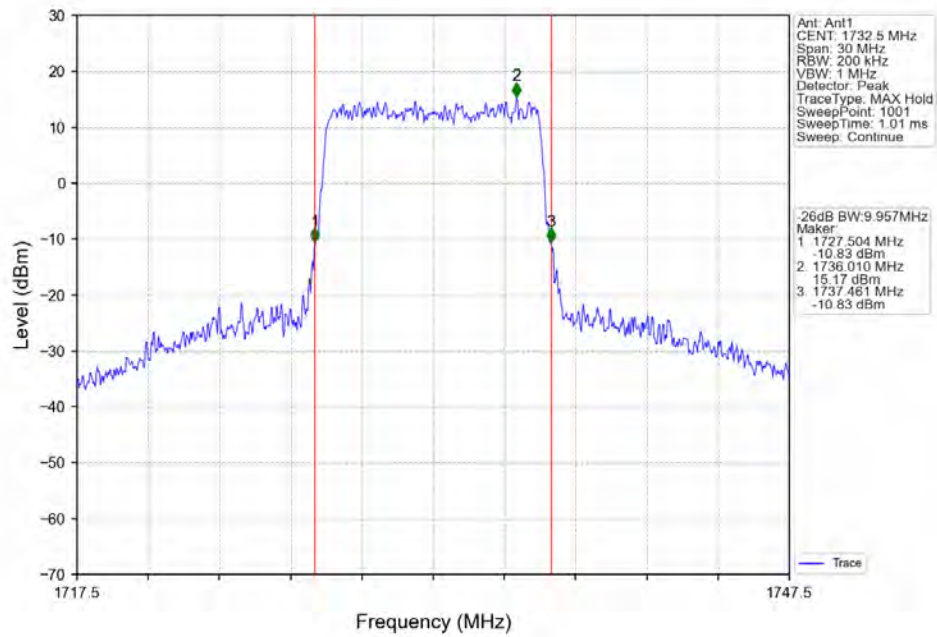
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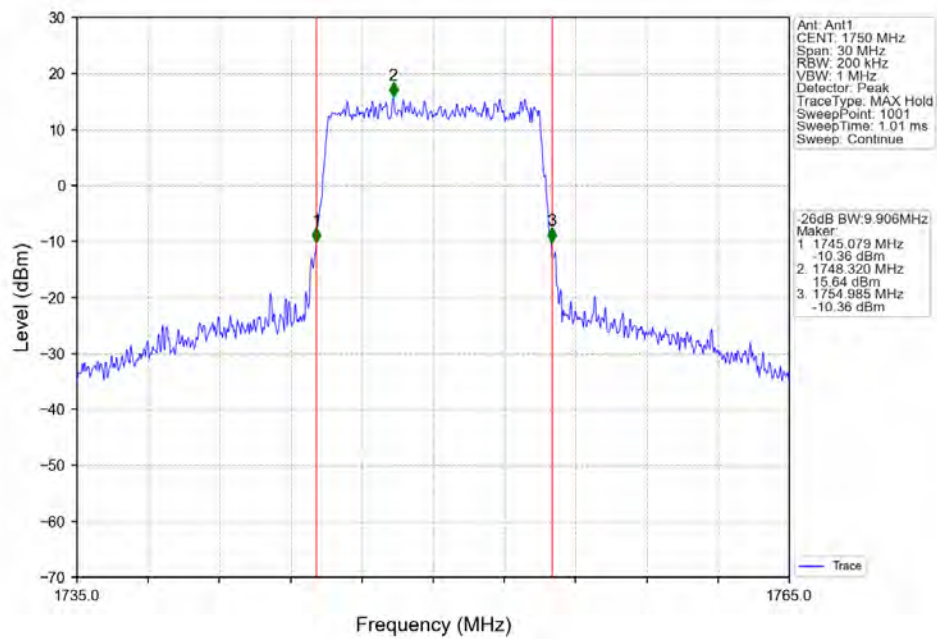
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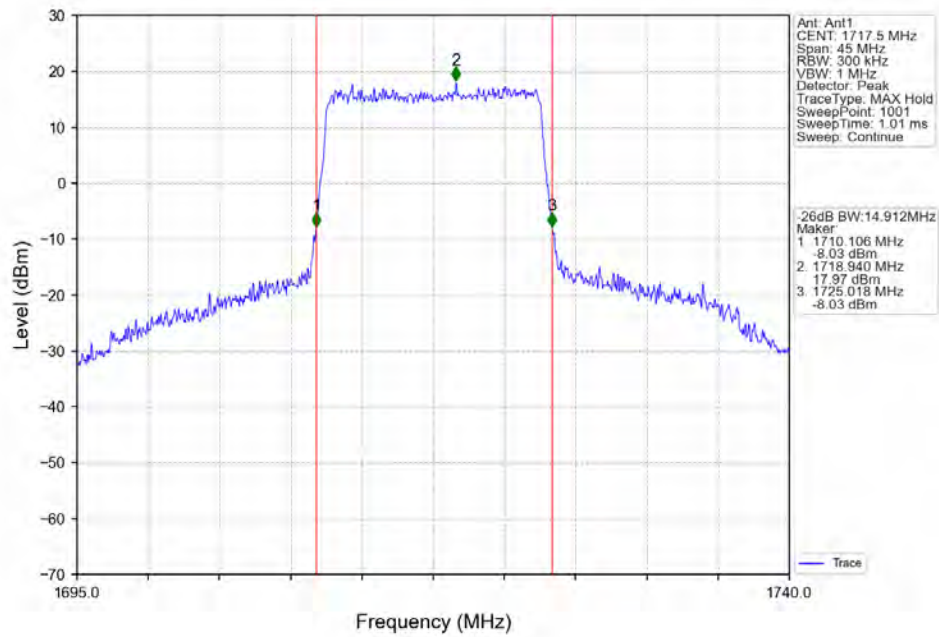
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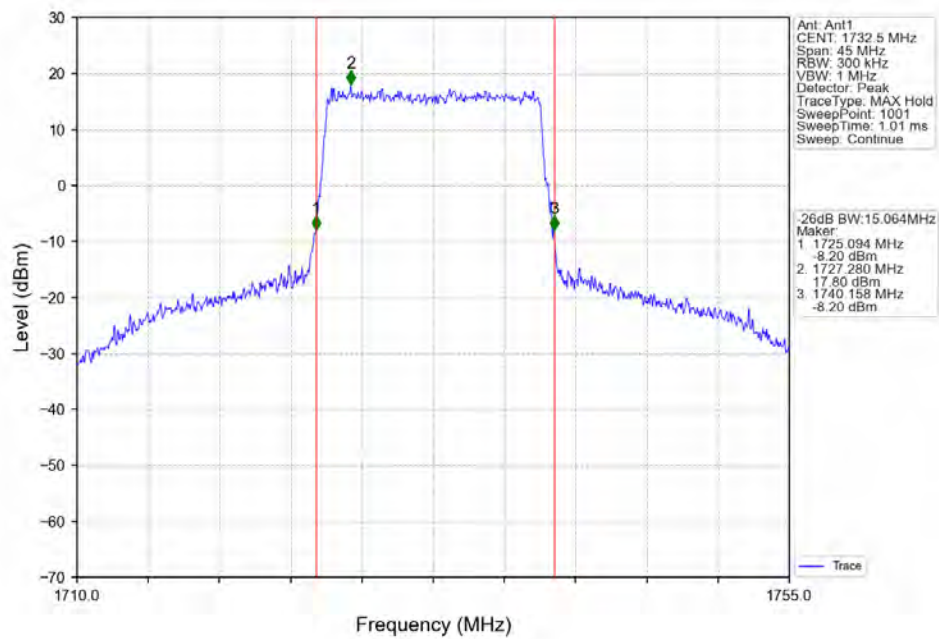
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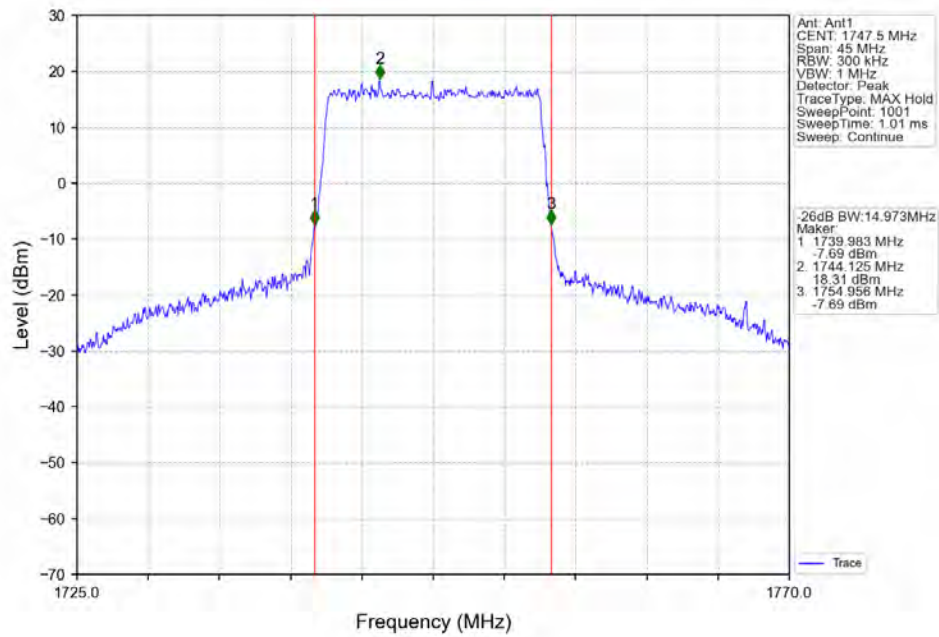
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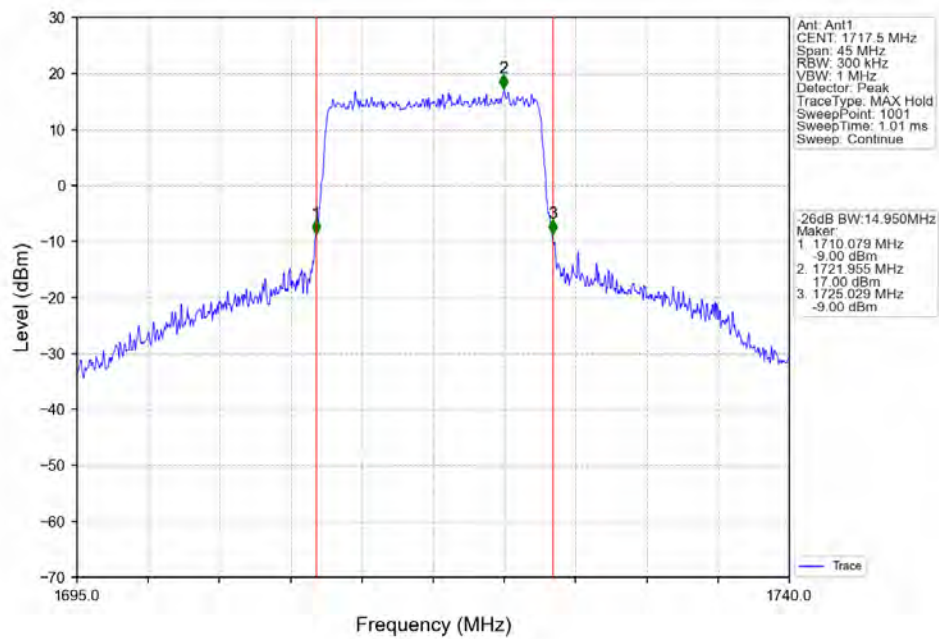
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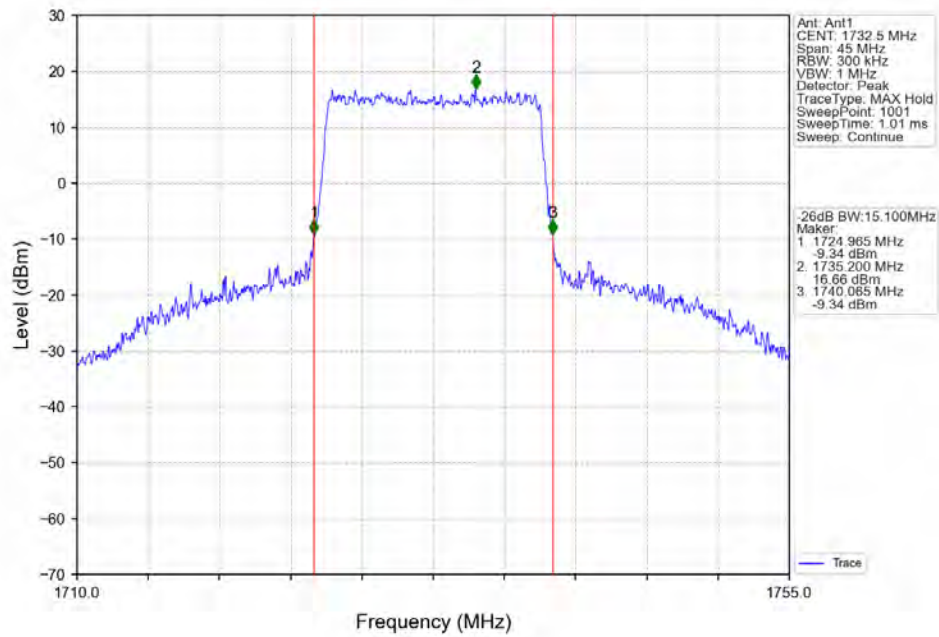
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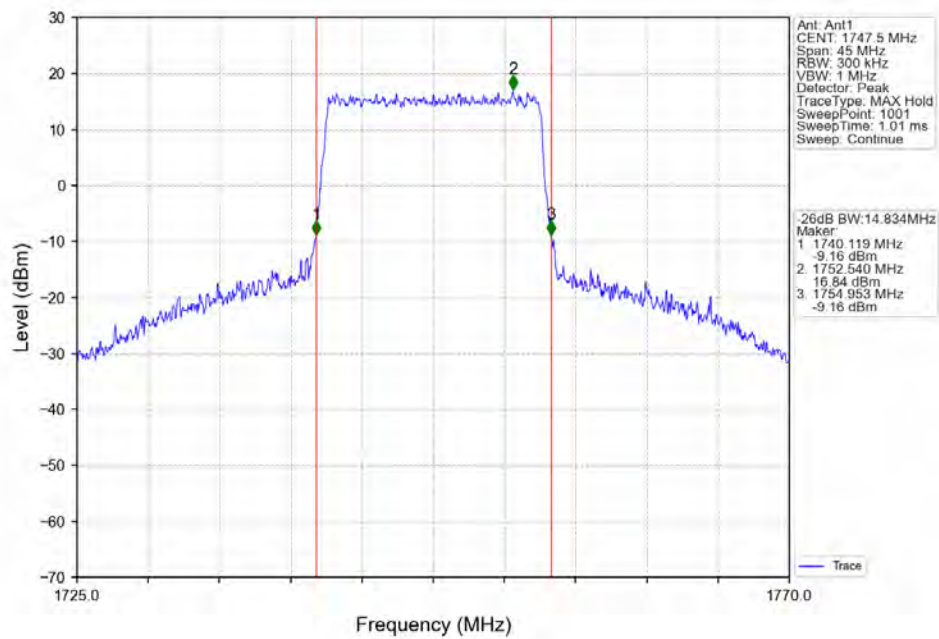
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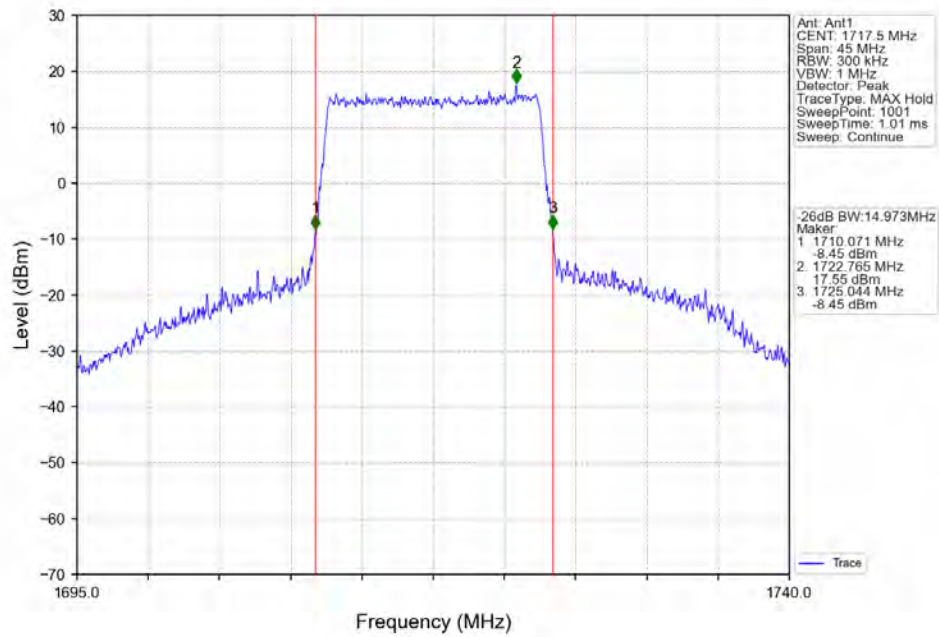
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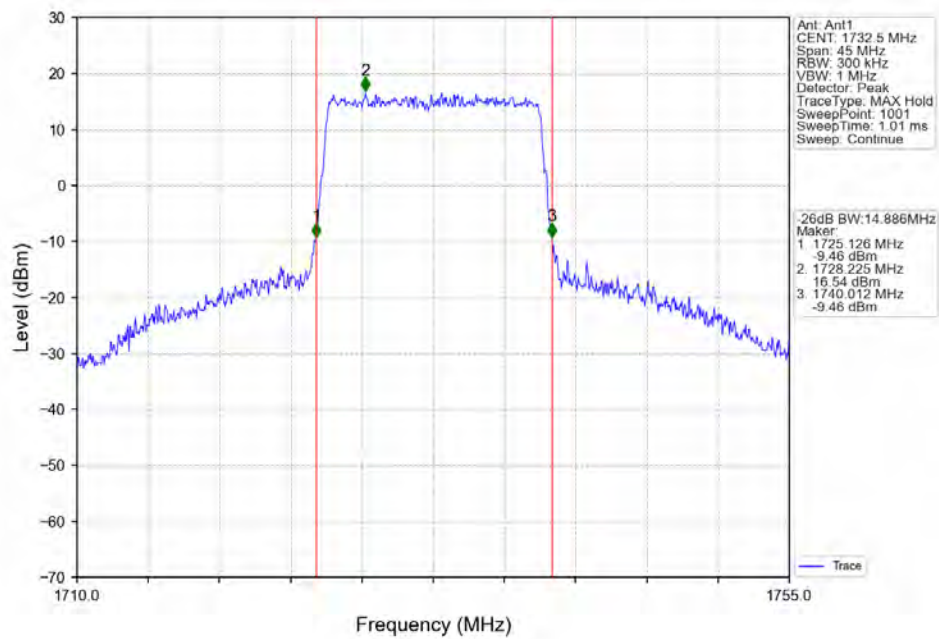
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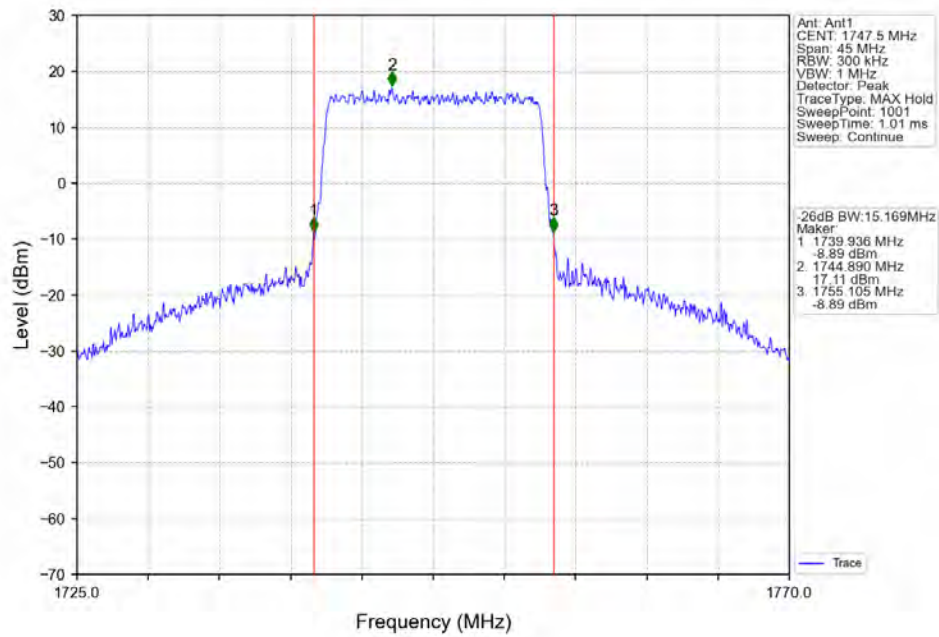
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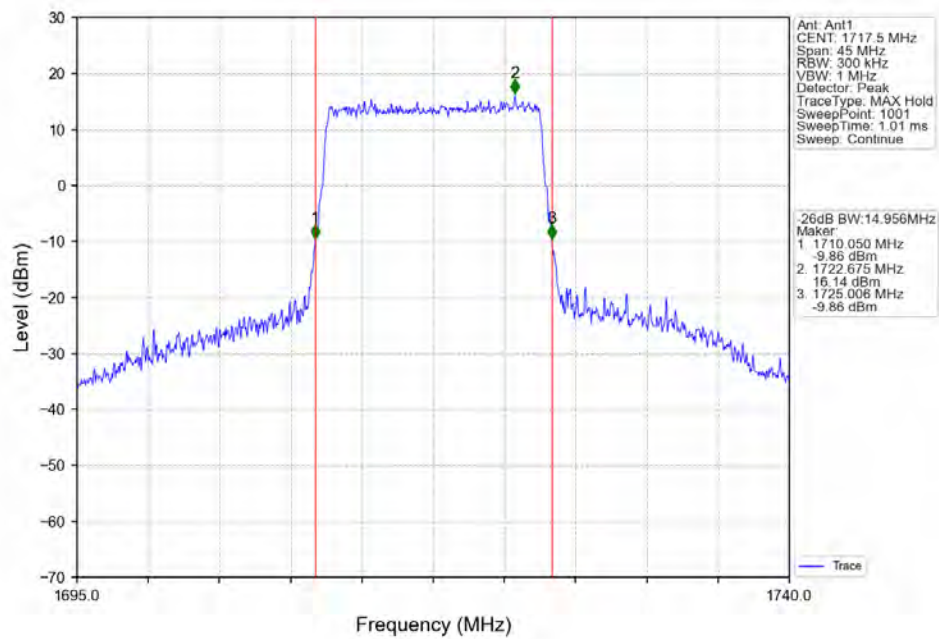
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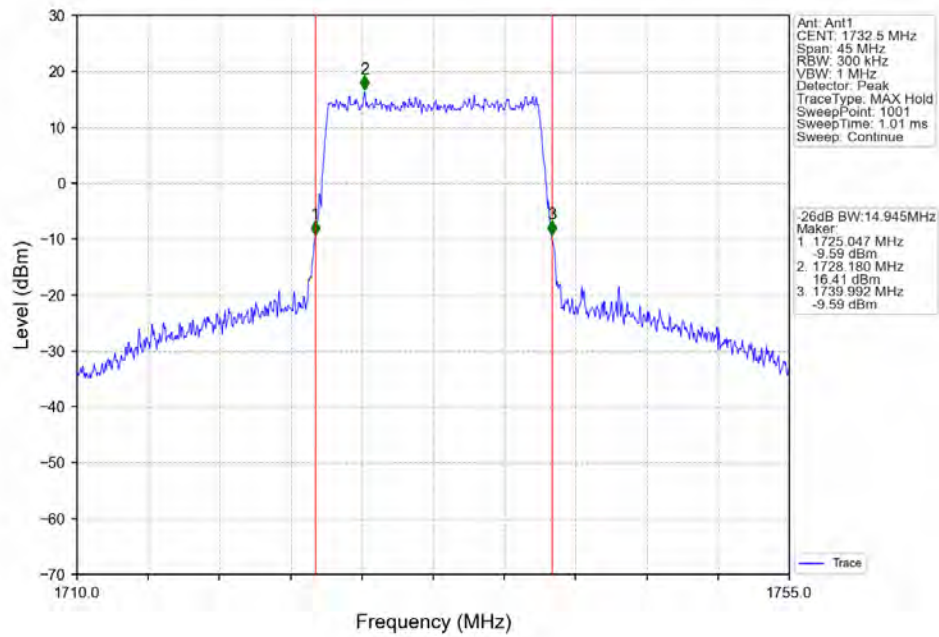
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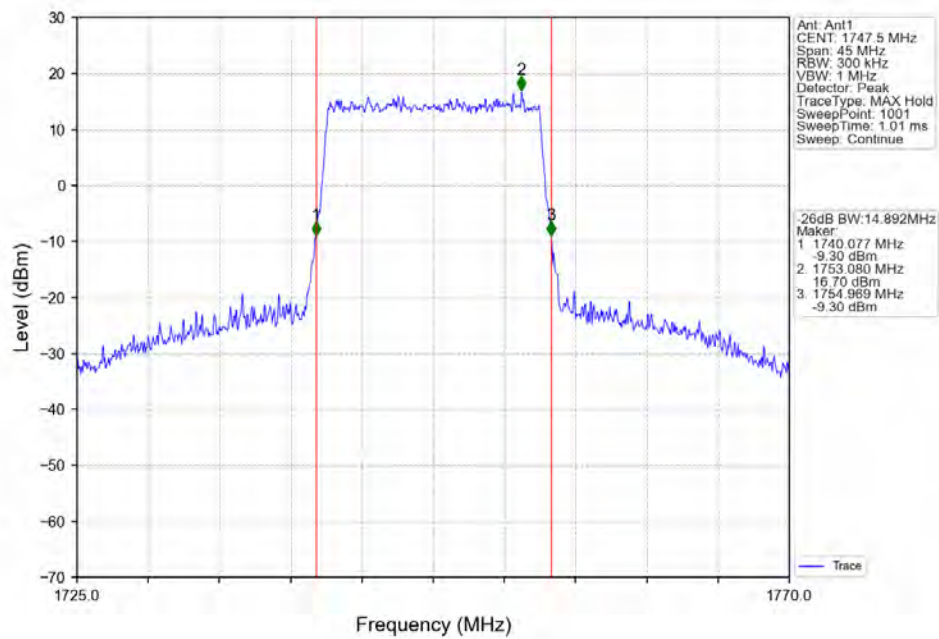
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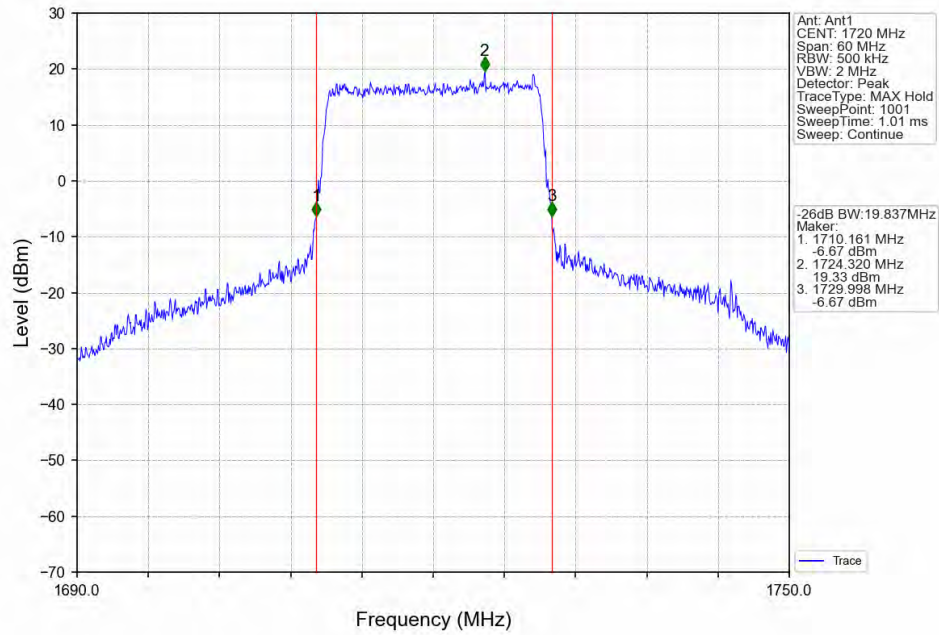
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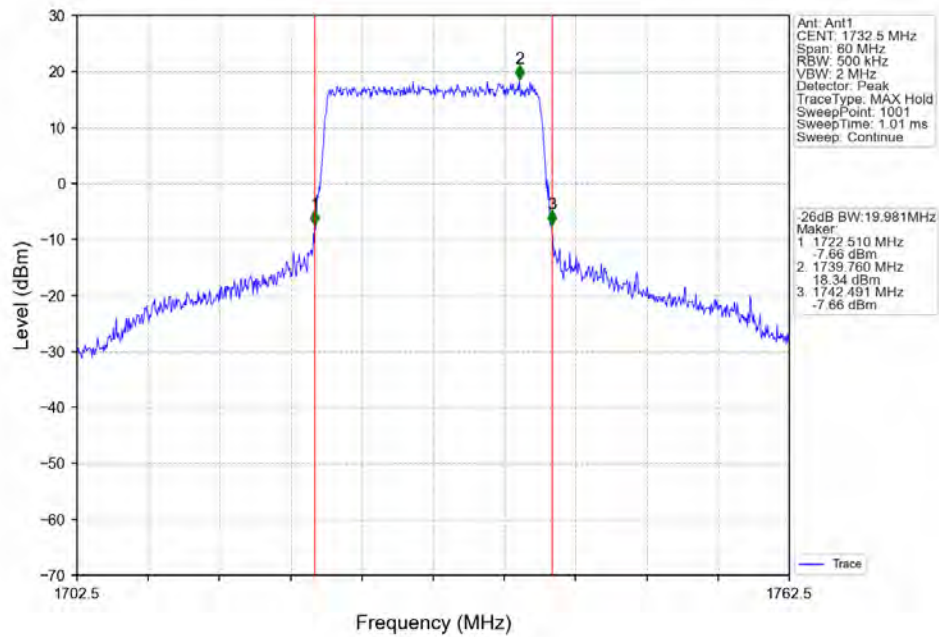
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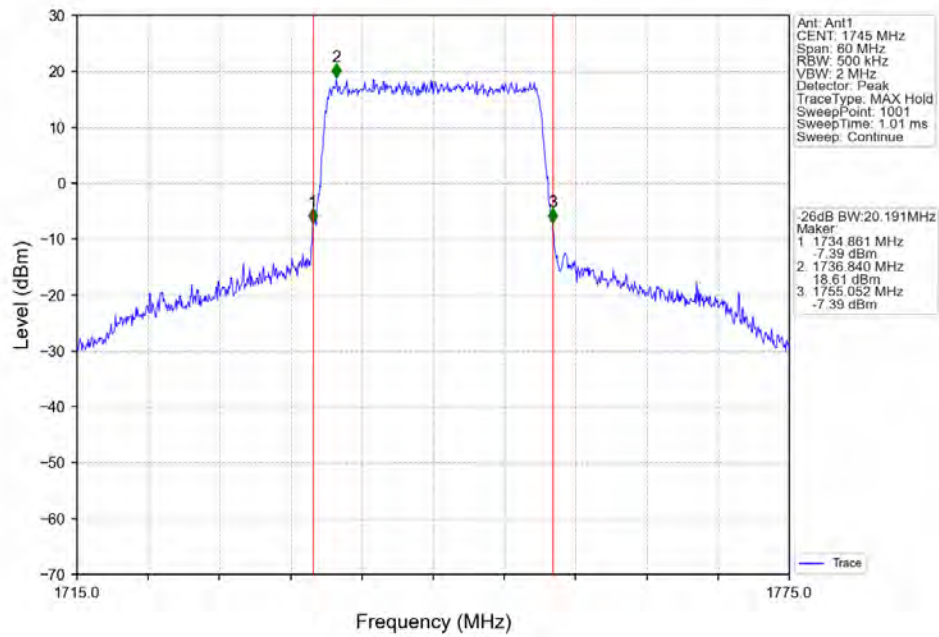
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTN



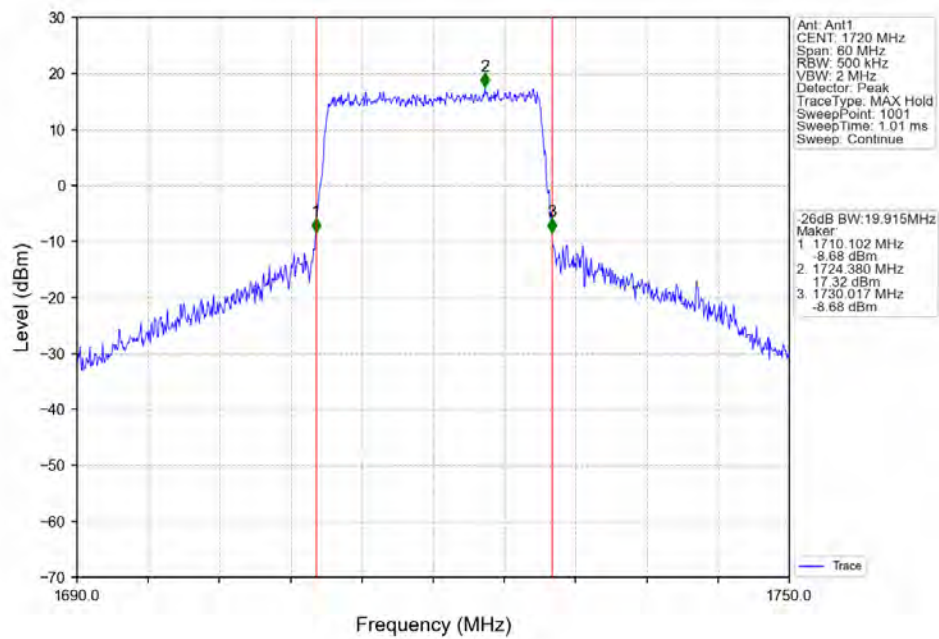
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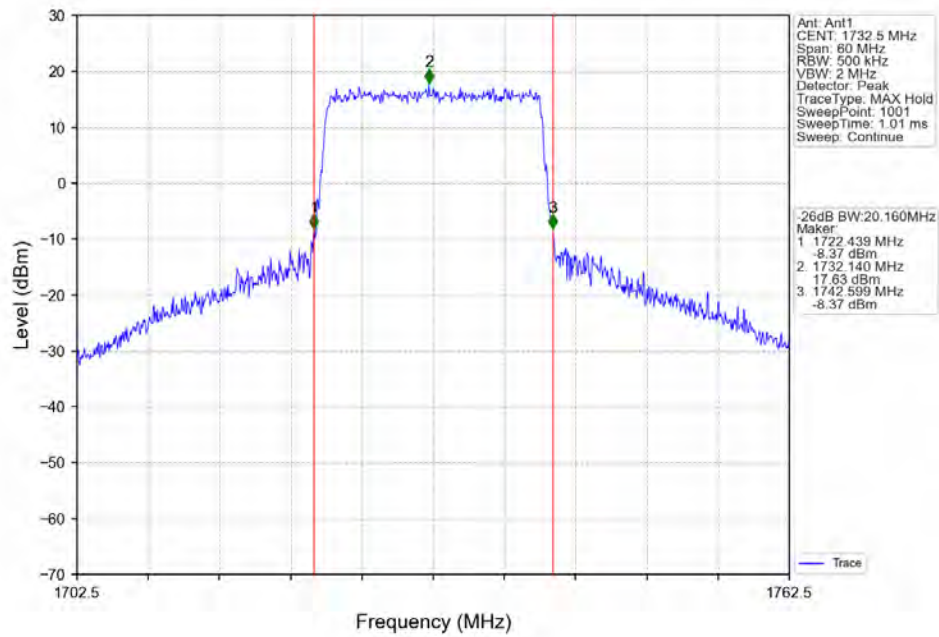
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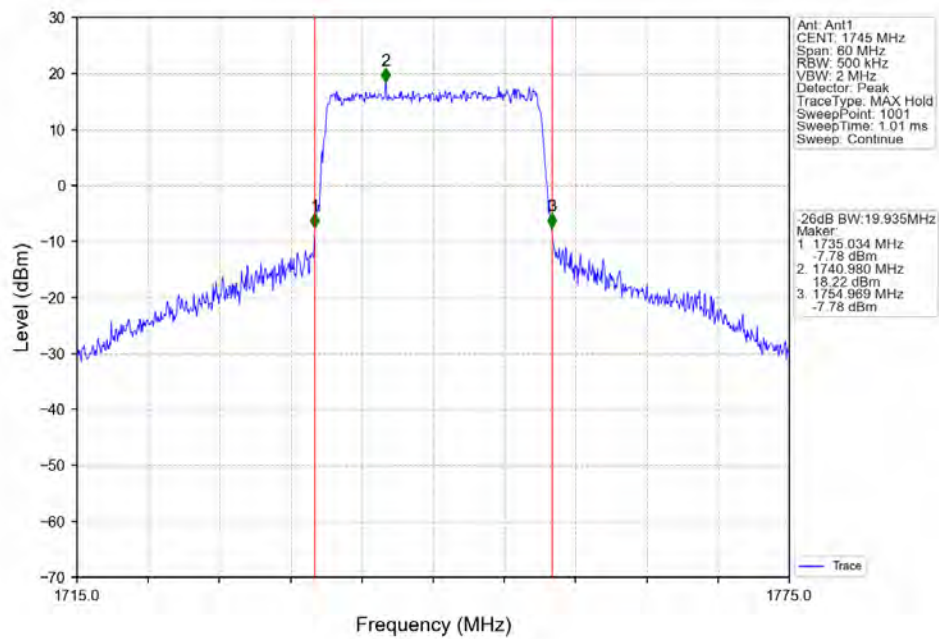
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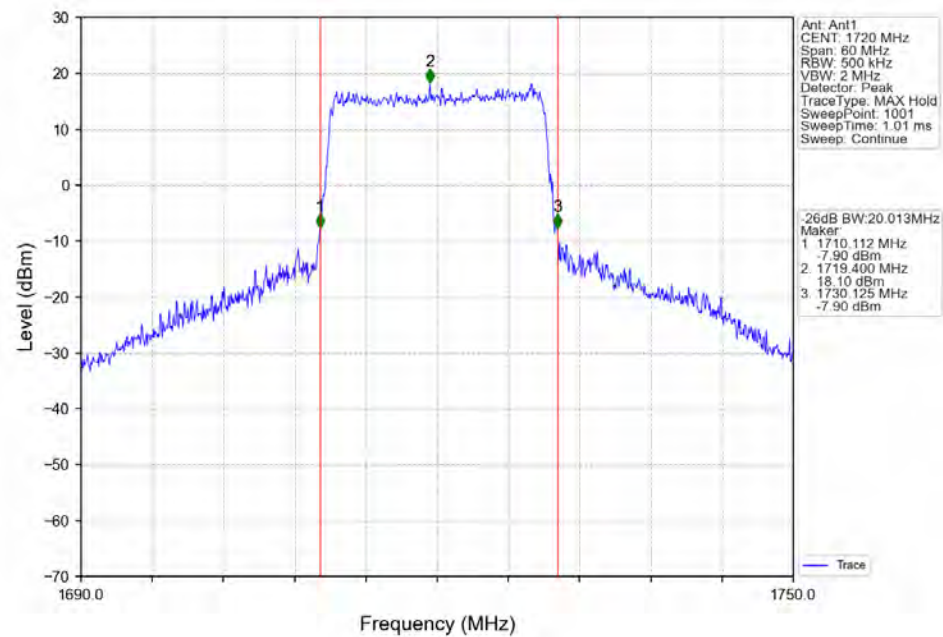
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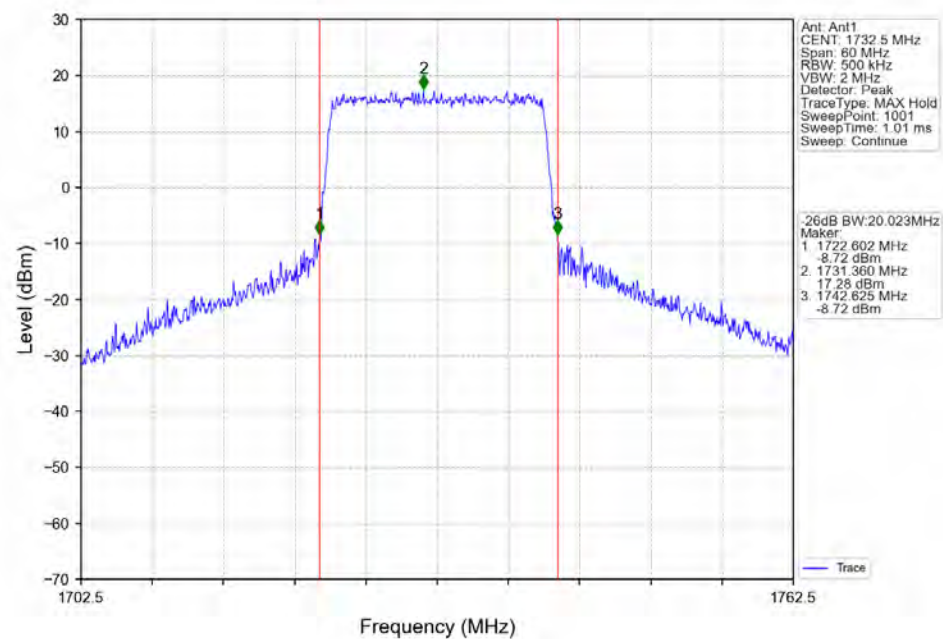
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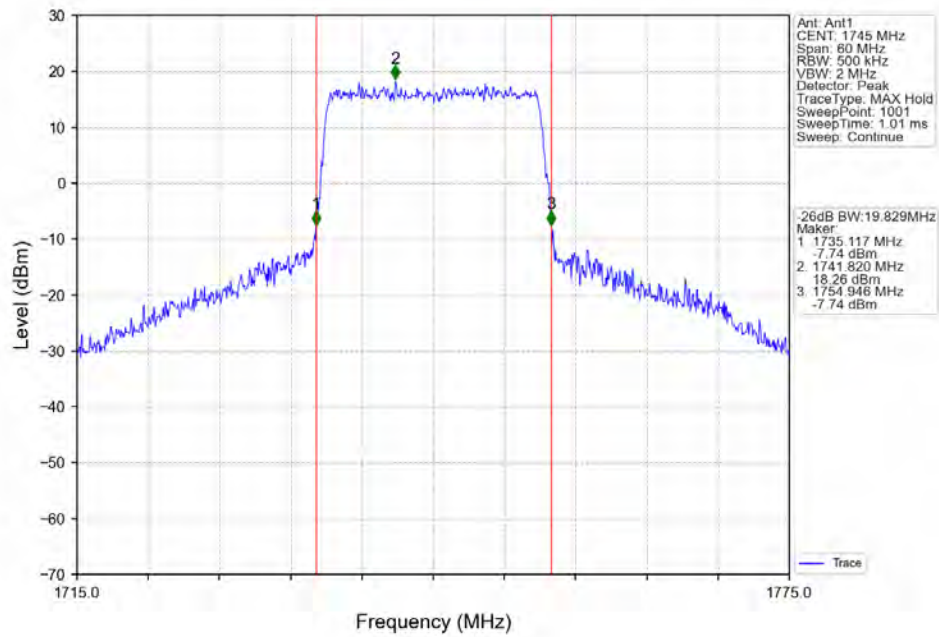
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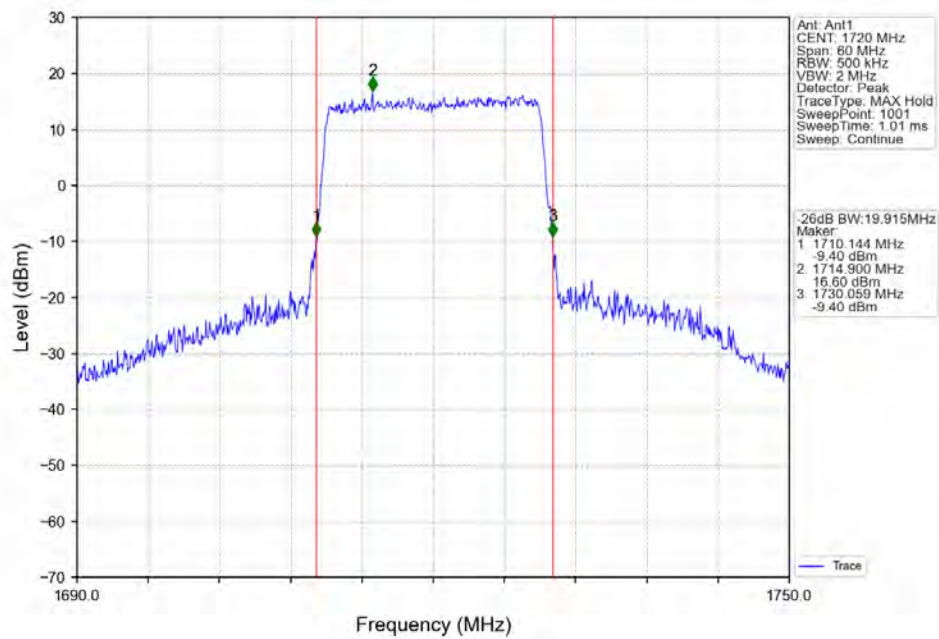
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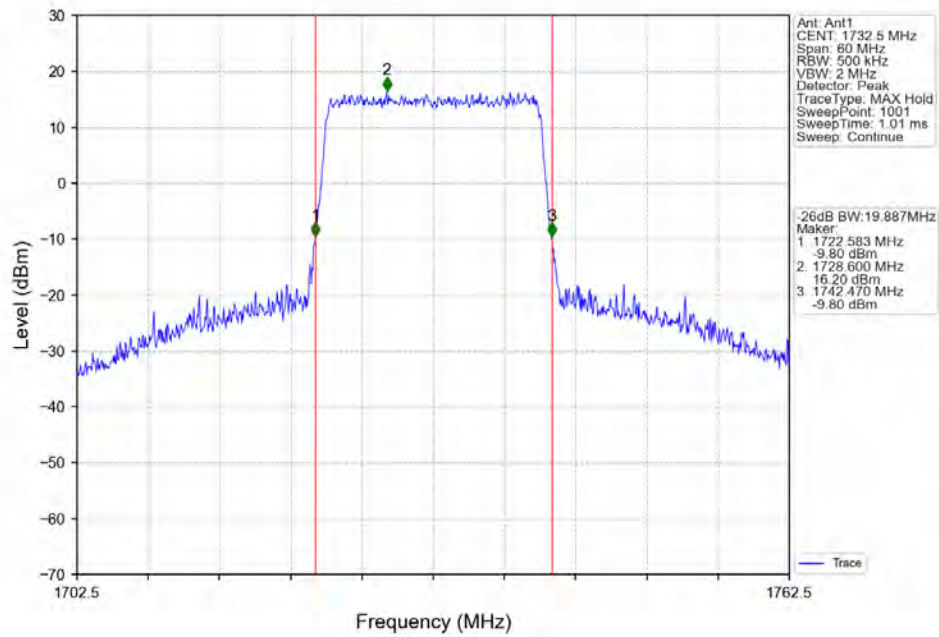
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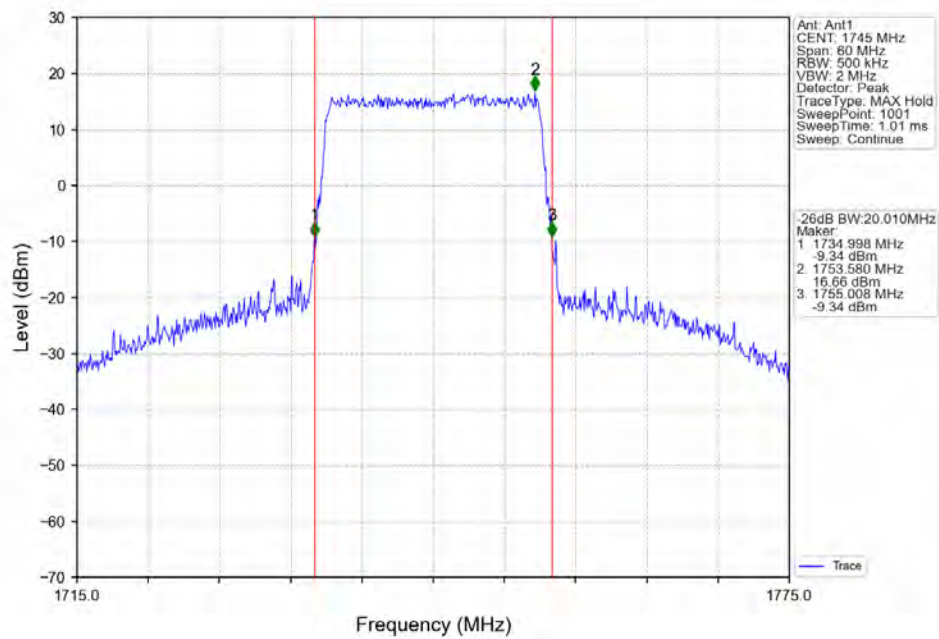
Band4 20MHz 256QAM LCH 1720MHz RB 100 0 NTN



Band4 20MHz 256QAM MCH 1732.5MHz RB 100 0 NTN



Band4_20MHz_256QAM_HCH_1745MHz_RB_100_0 NTN



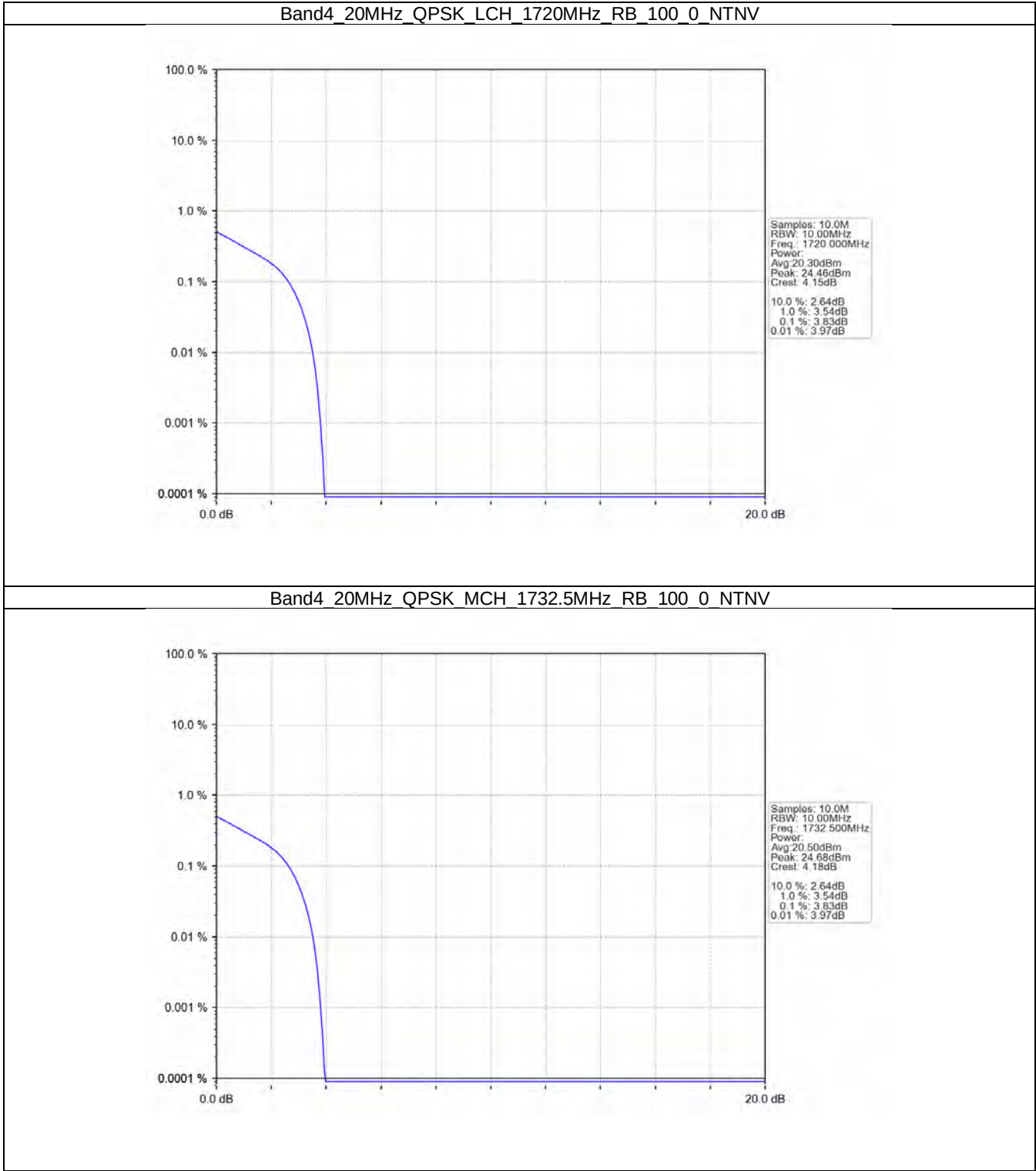
4. Peak-Average Ratio

4.1 B4_20MHz

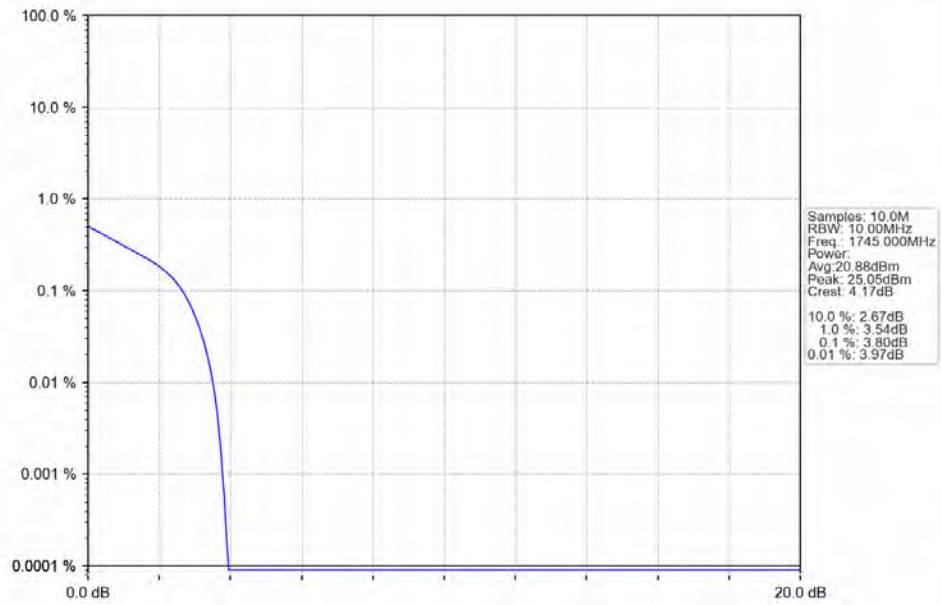
4.1.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	3.83	<=13	Pass
	1732.5	100	0	3.83	<=13	Pass
	1745	100	0	3.80	<=13	Pass
16QAM	1720	100	0	5.54	<=13	Pass
	1732.5	100	0	5.54	<=13	Pass
	1745	100	0	5.57	<=13	Pass
64QAM	1720	100	0	6.00	<=13	Pass
	1732.5	100	0	6.00	<=13	Pass
	1745	100	0	6.03	<=13	Pass
256QAM	1720	100	0	6.06	<=13	Pass
	1732.5	100	0	6.12	<=13	Pass
	1745	100	0	6.12	<=13	Pass

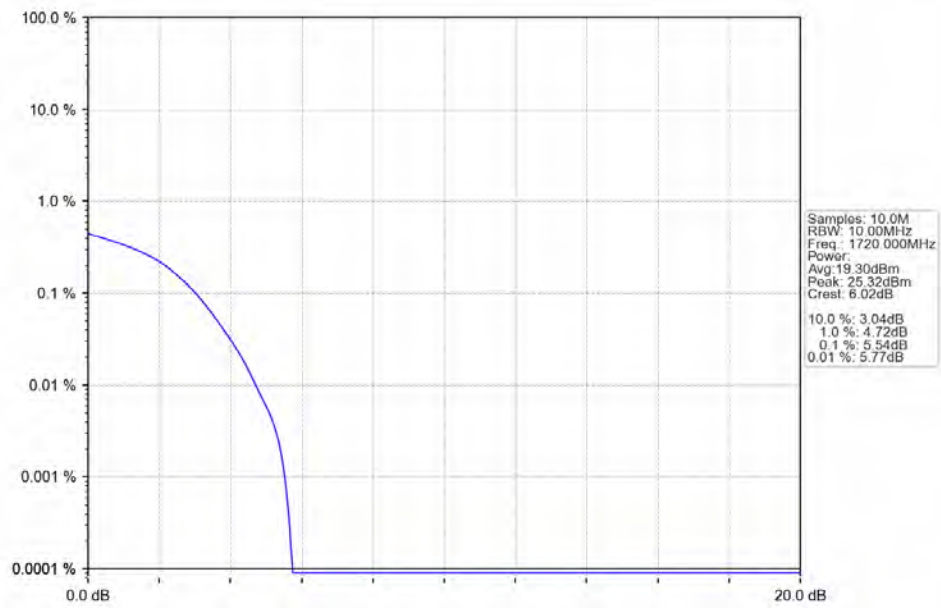
4.1.2 Test Graph



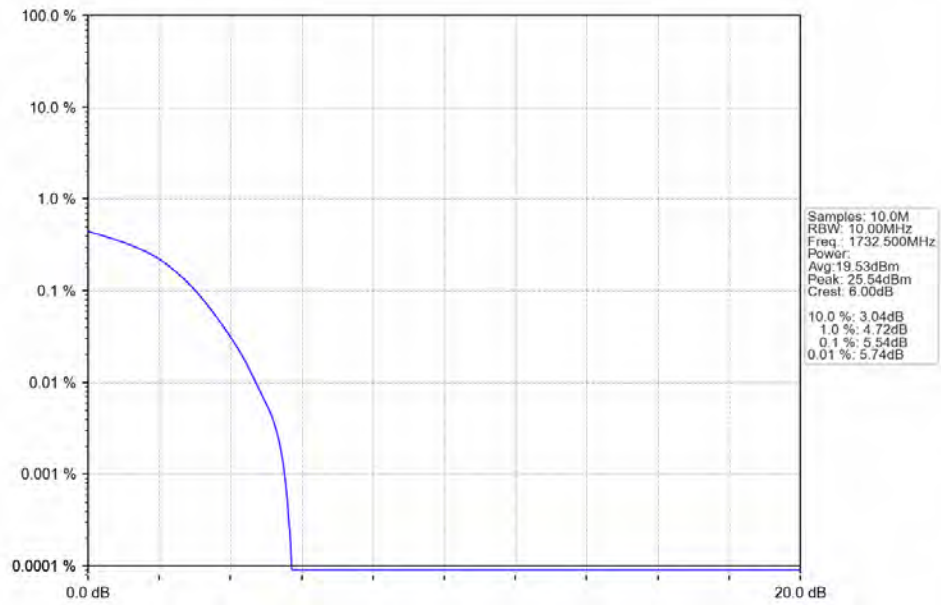
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



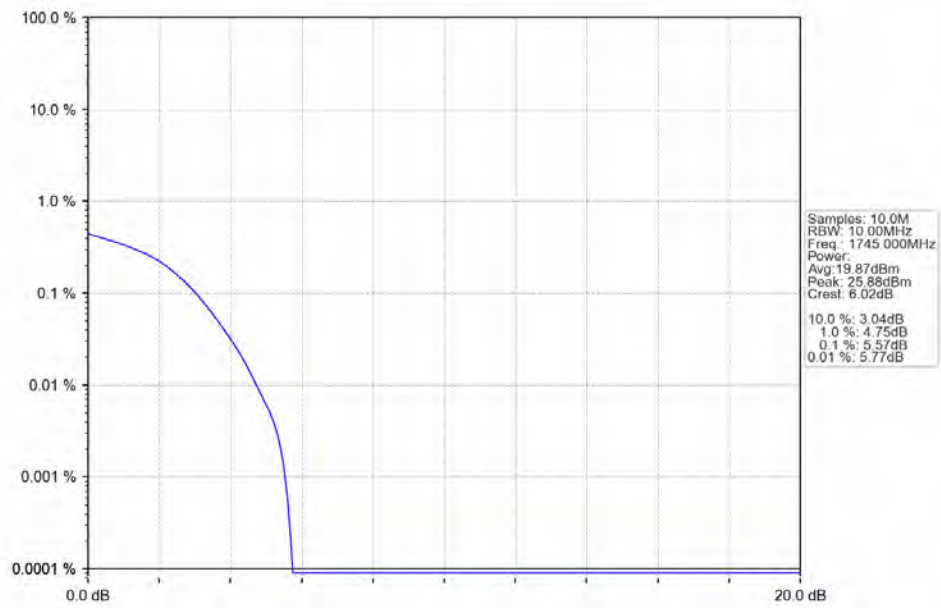
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



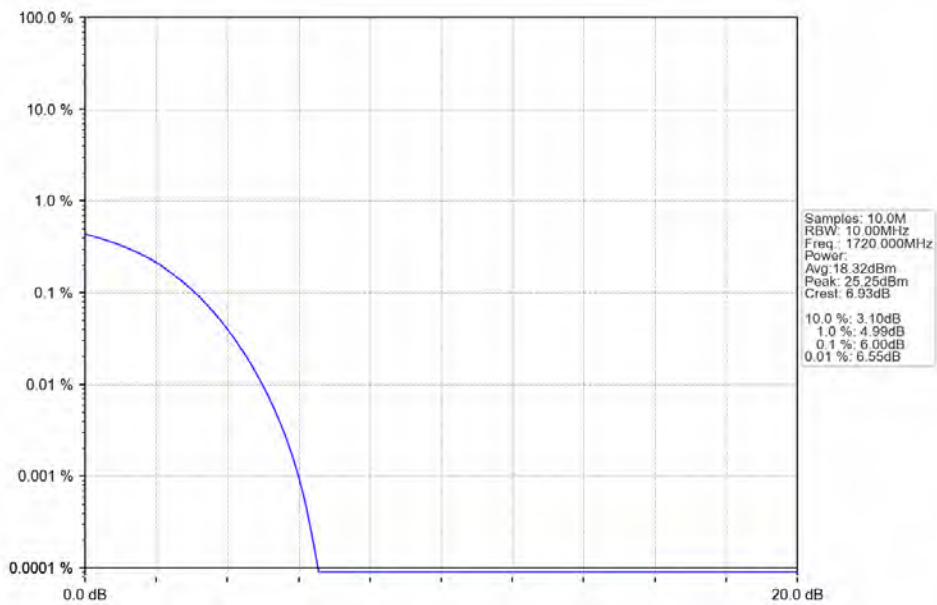
Band4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTNV



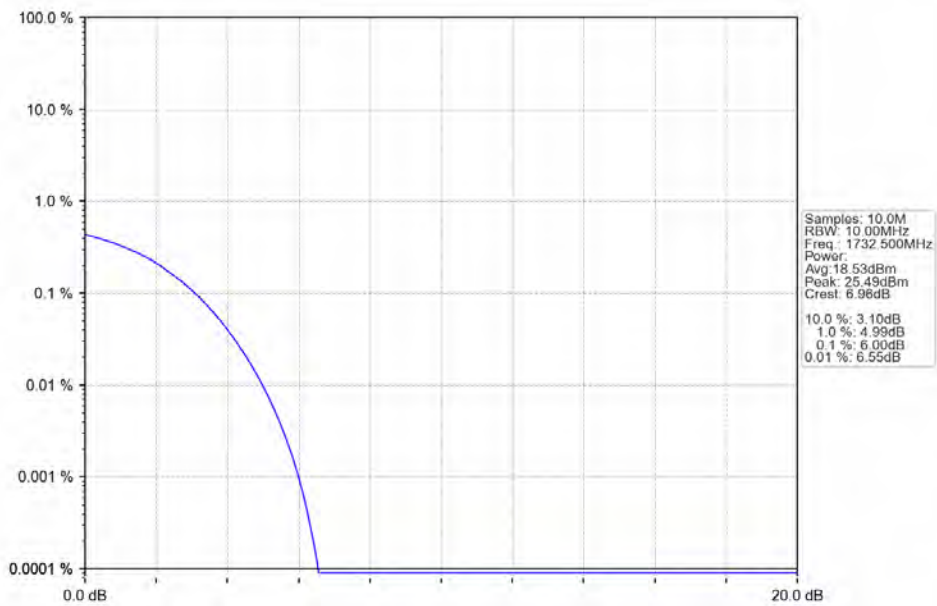
Band4 20MHz 16QAM HCH 1745MHz RB 100 0 NTNV



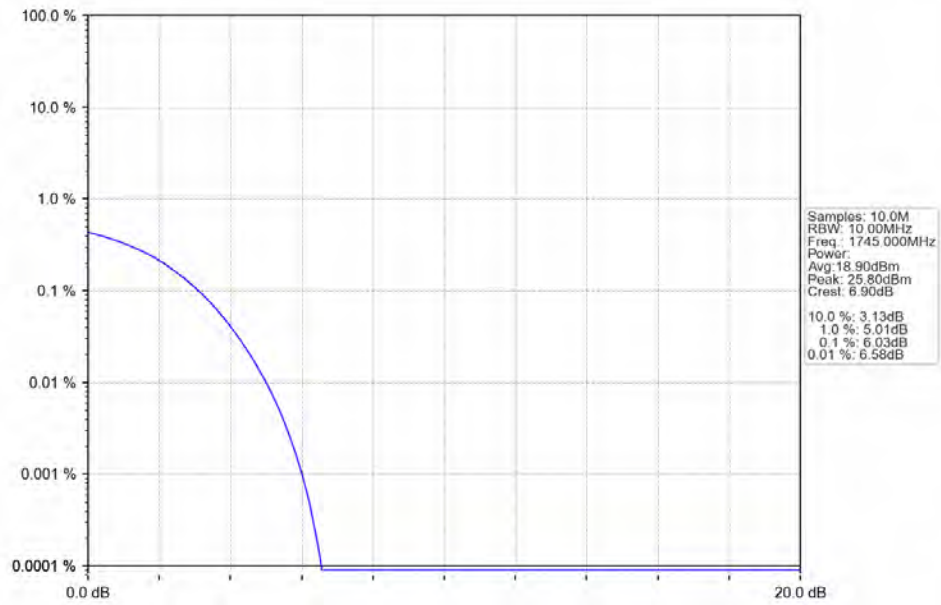
Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



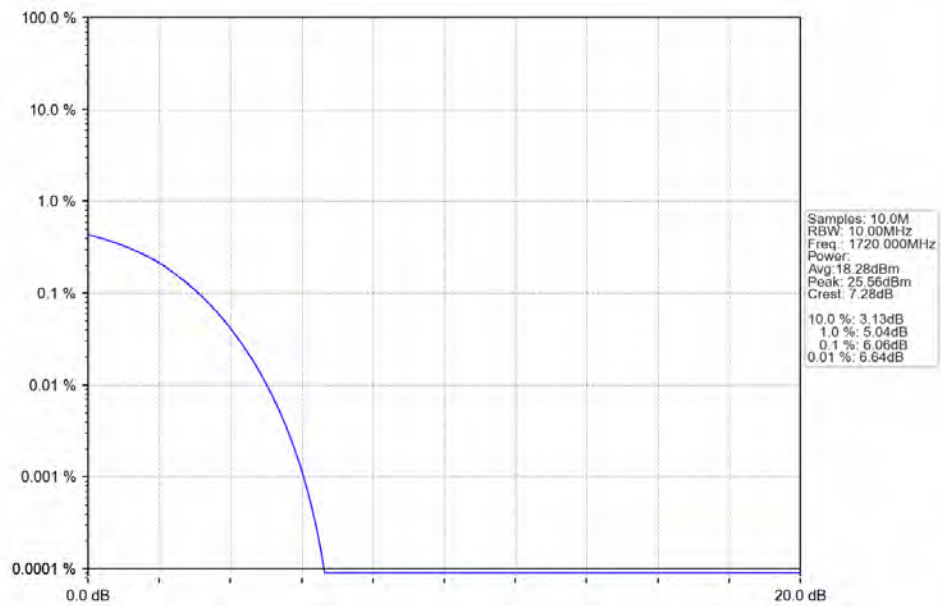
Band4_20MHz_64QAM_MCH_1732.5MHz_RB_100_0_NTNV



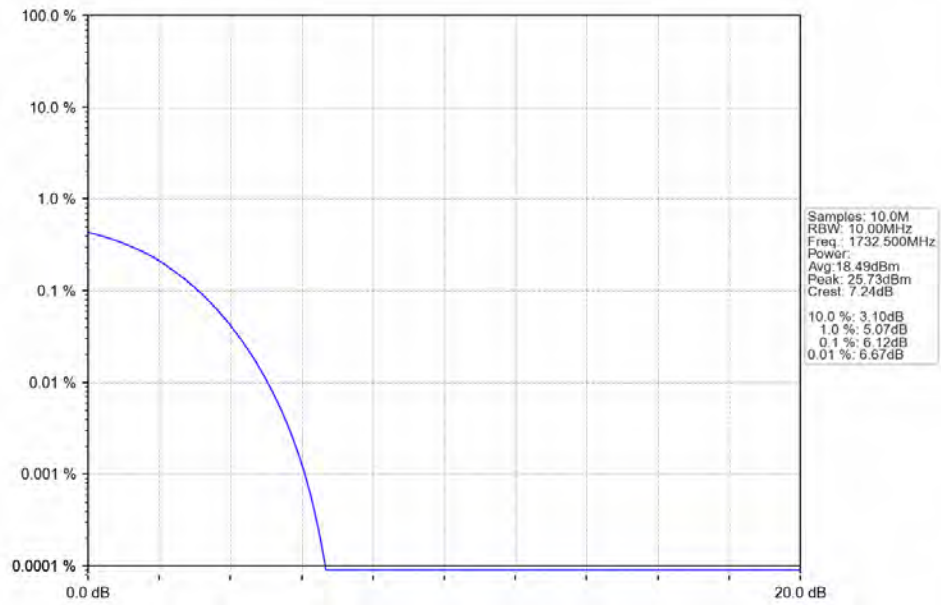
Band4_20MHz_64QAM_HCH_1745MHz_RB_100_0_NTNV



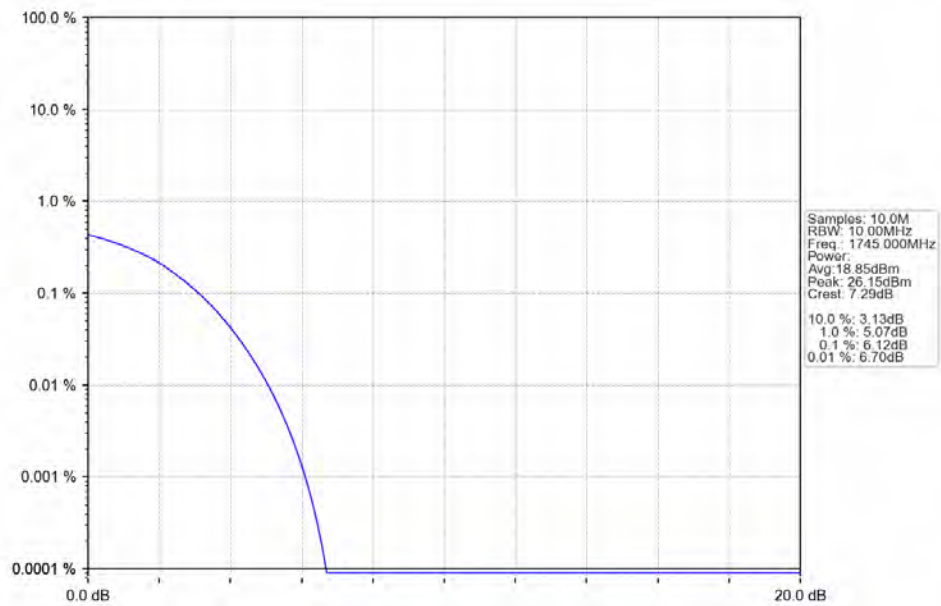
Band4_20MHz_256QAM_LCH_1720MHz_RB_100_0_NTNV



Band4 20MHz 256QAM MCH 1732.5MHz RB 100 0 NTN



Band4 20MHz 256QAM HCH 1745MHz RB 100 0 NTN



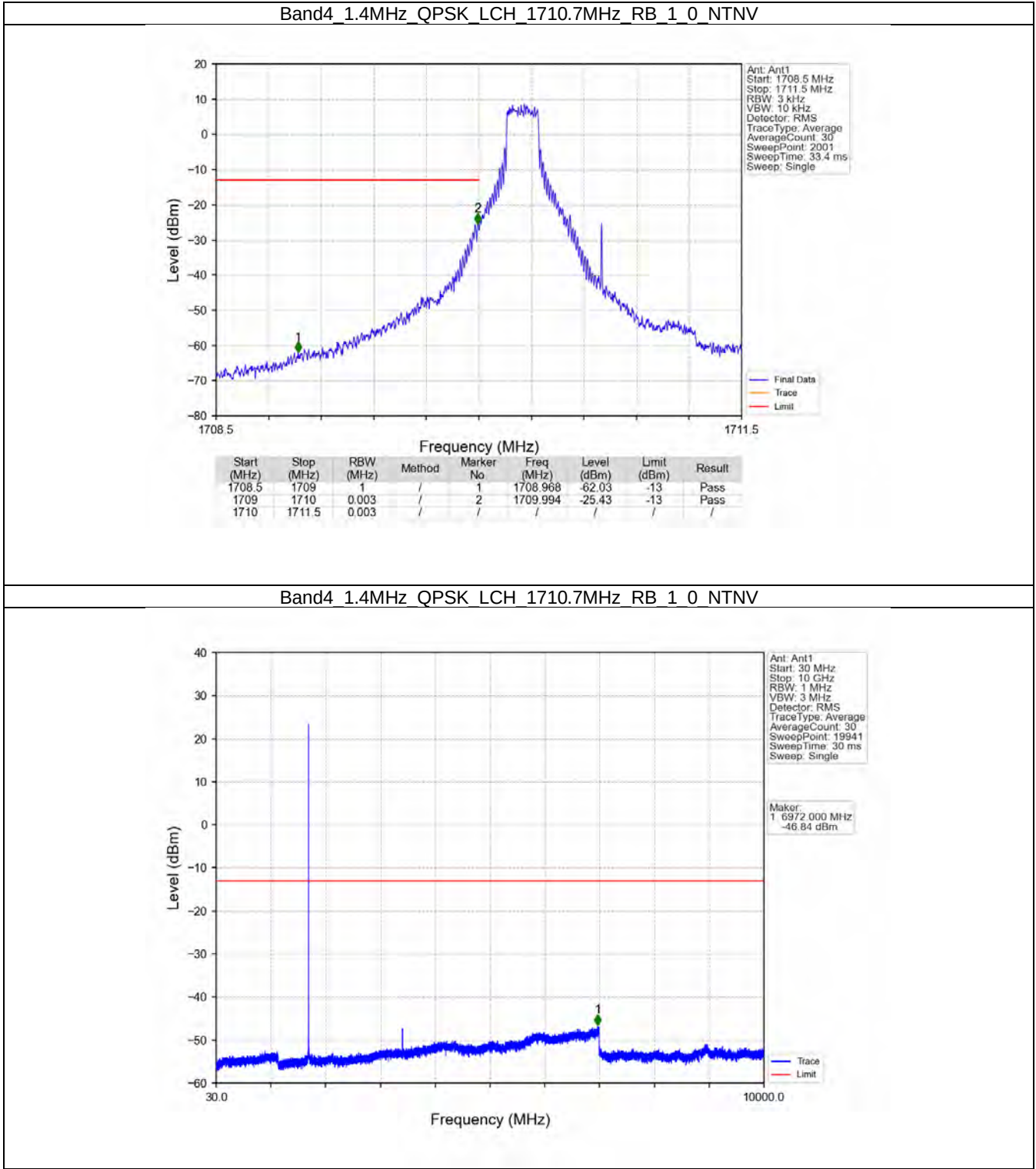
5. Spurious Emission & Band Edges

5.1 B4_1.4MHz

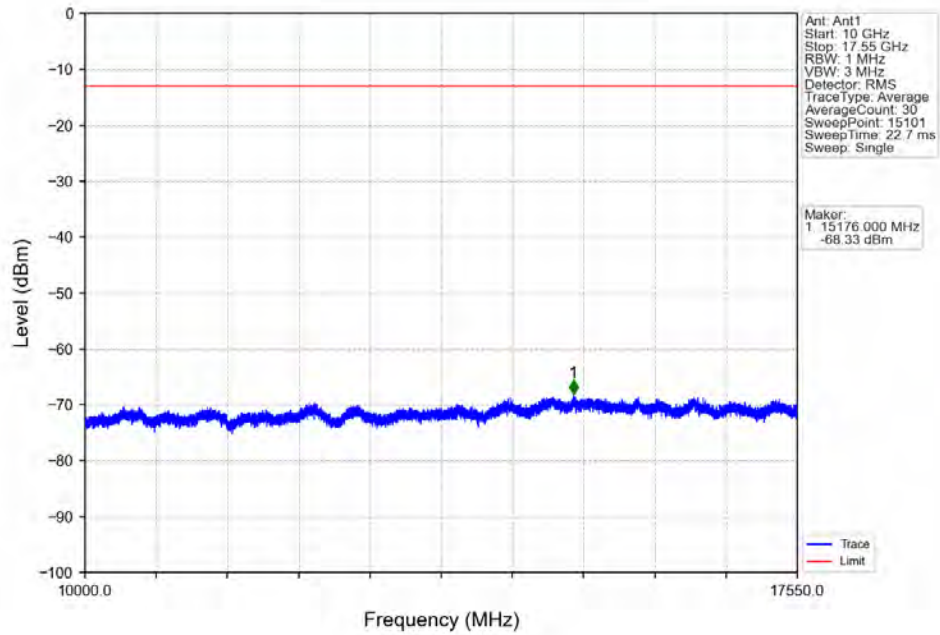
5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

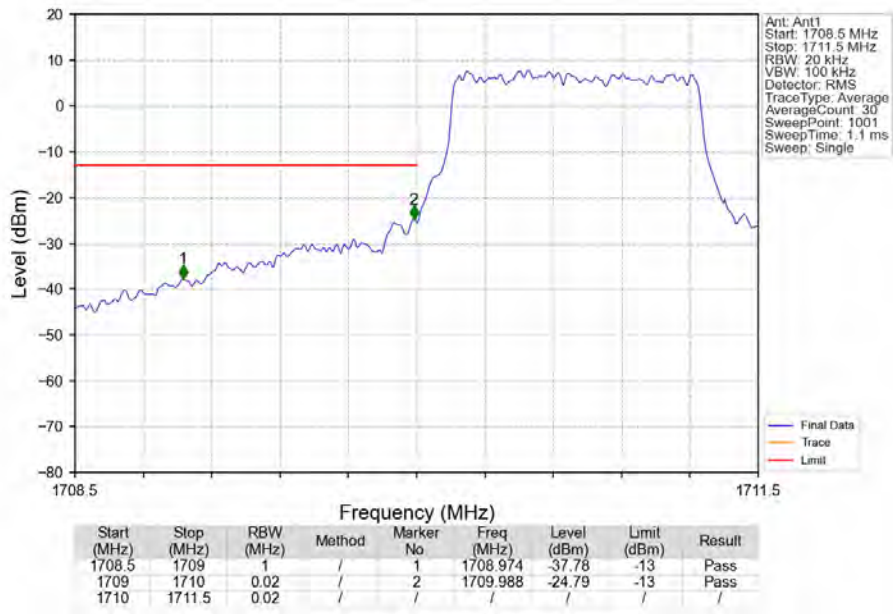
5.1.2 Test Graph



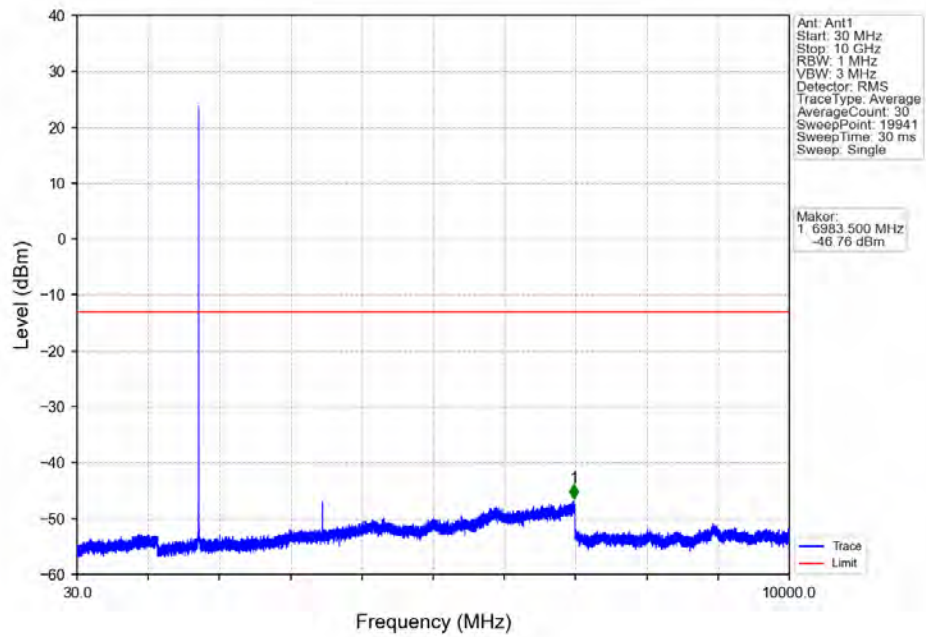
Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTNV



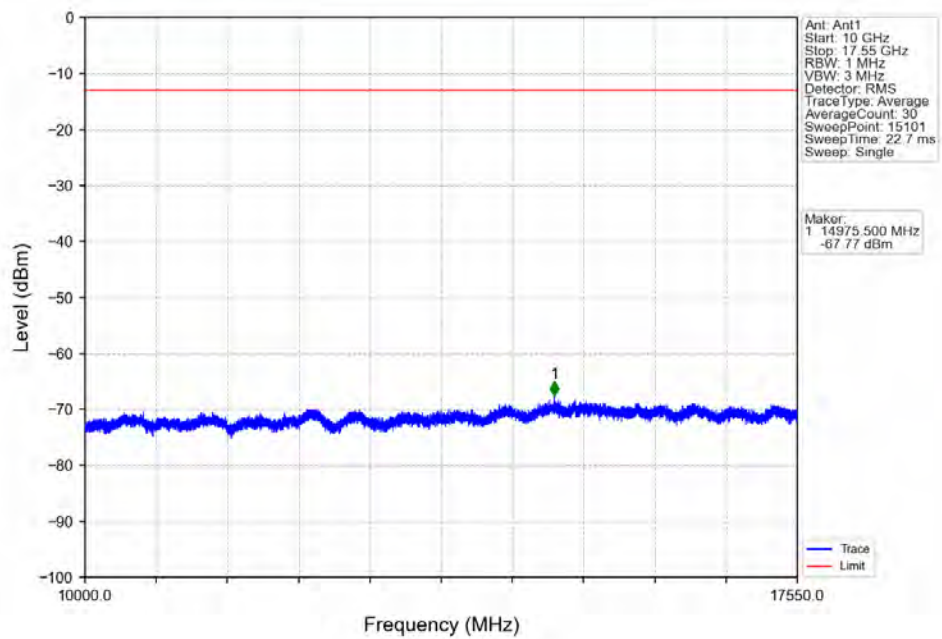
Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTNV



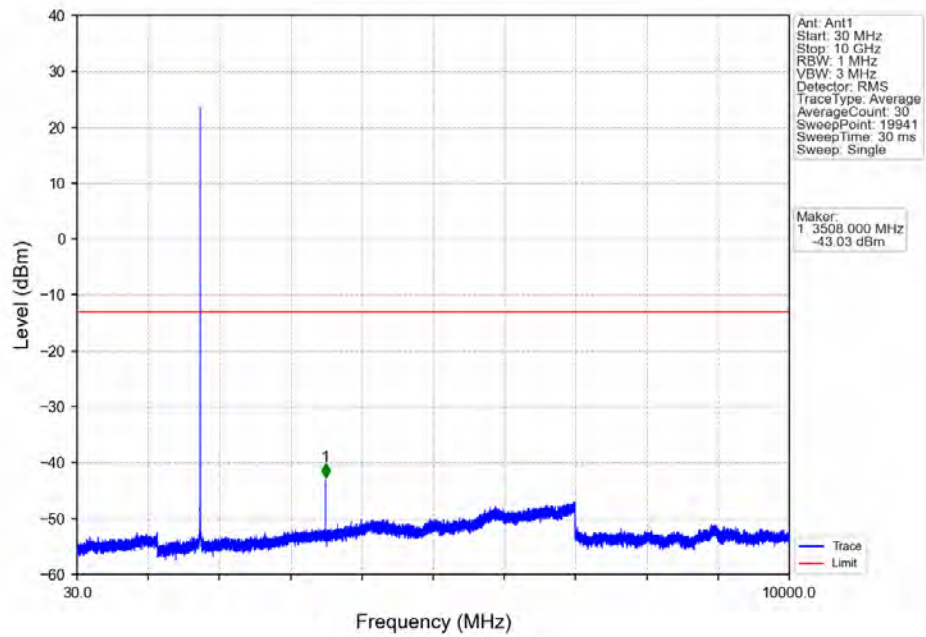
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



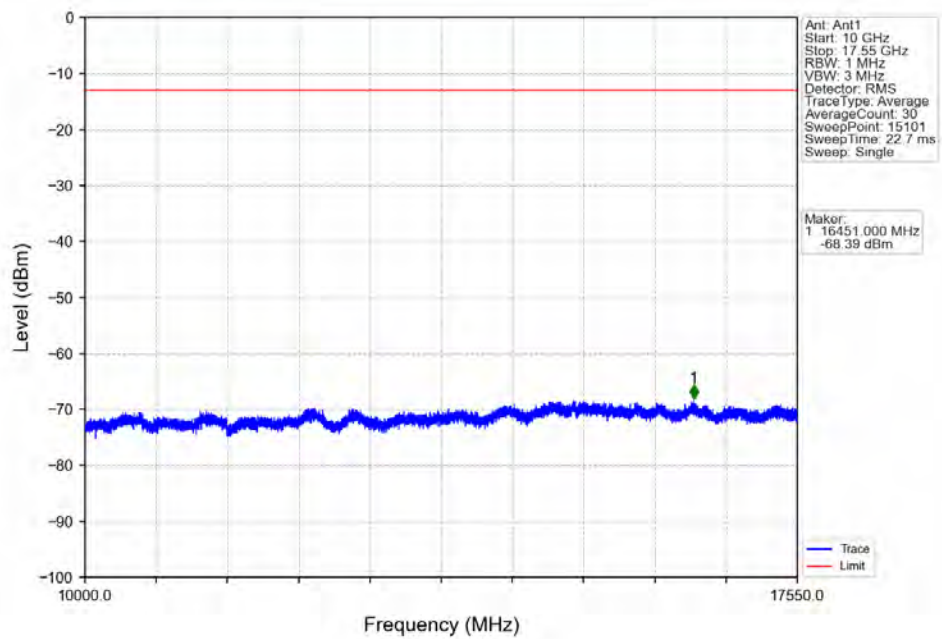
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



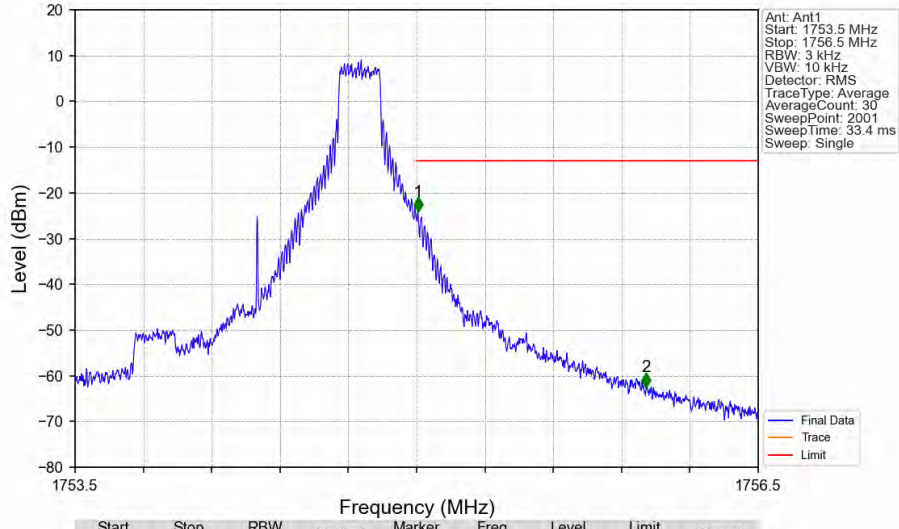
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV



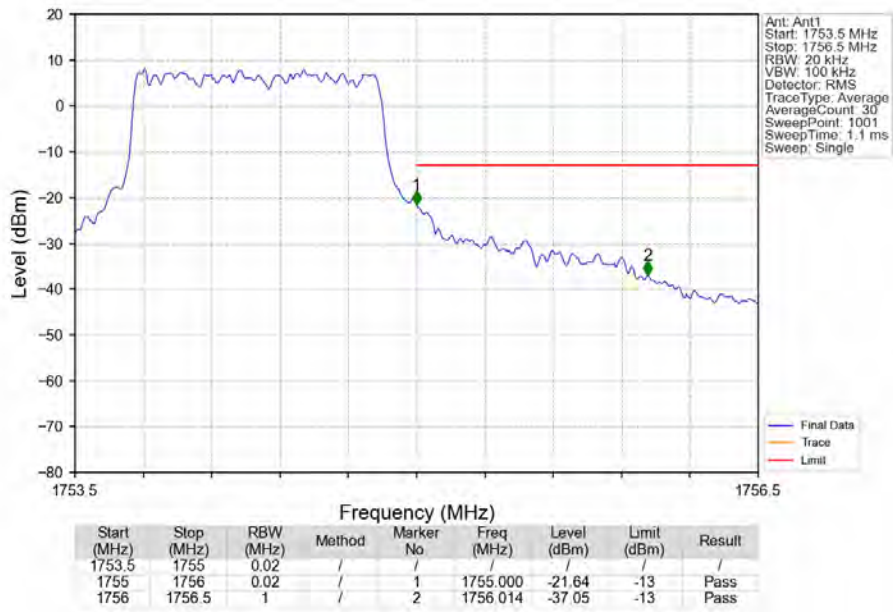
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV



Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 5 NTV



Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV

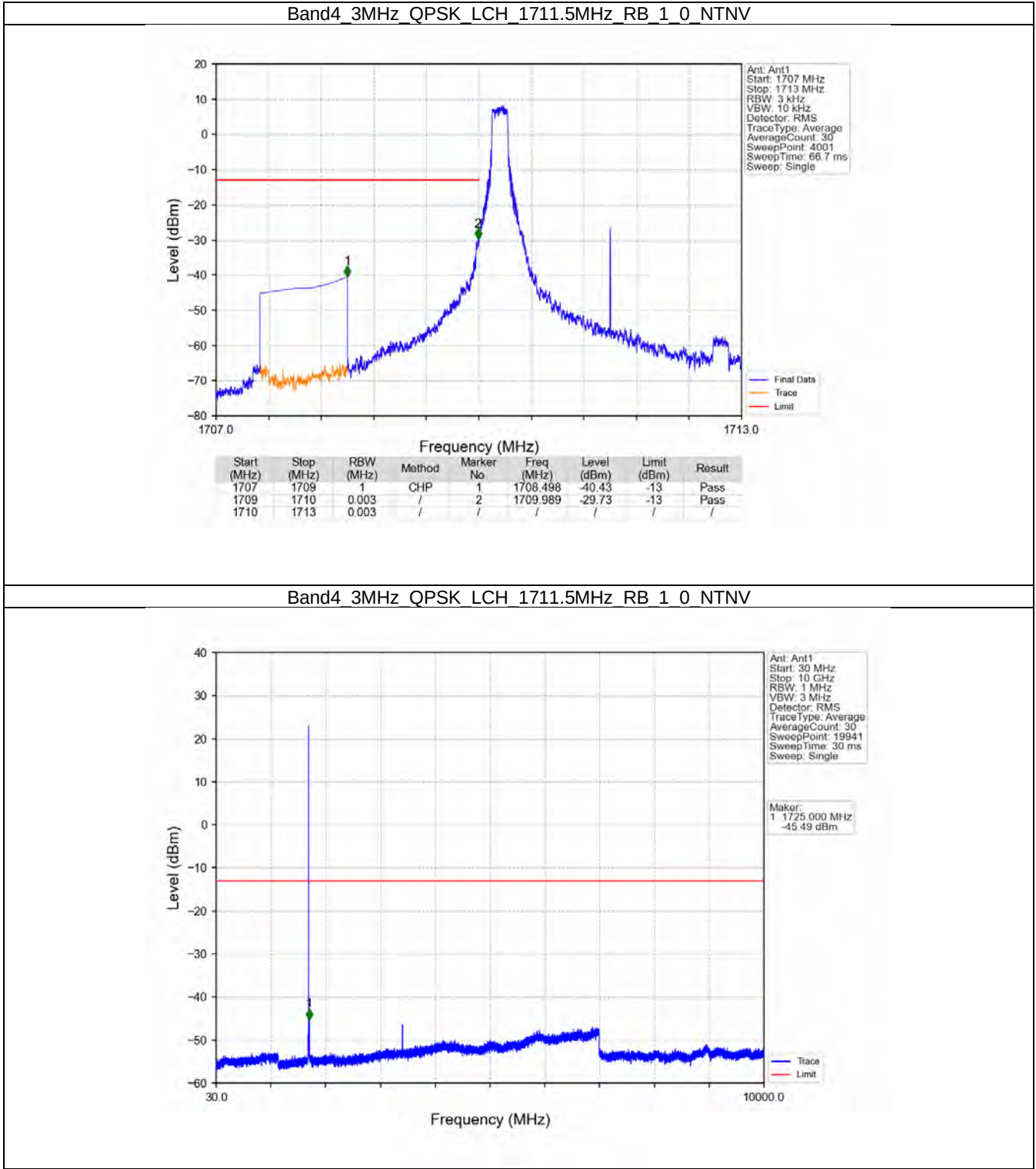


5.2 B4_3MHz

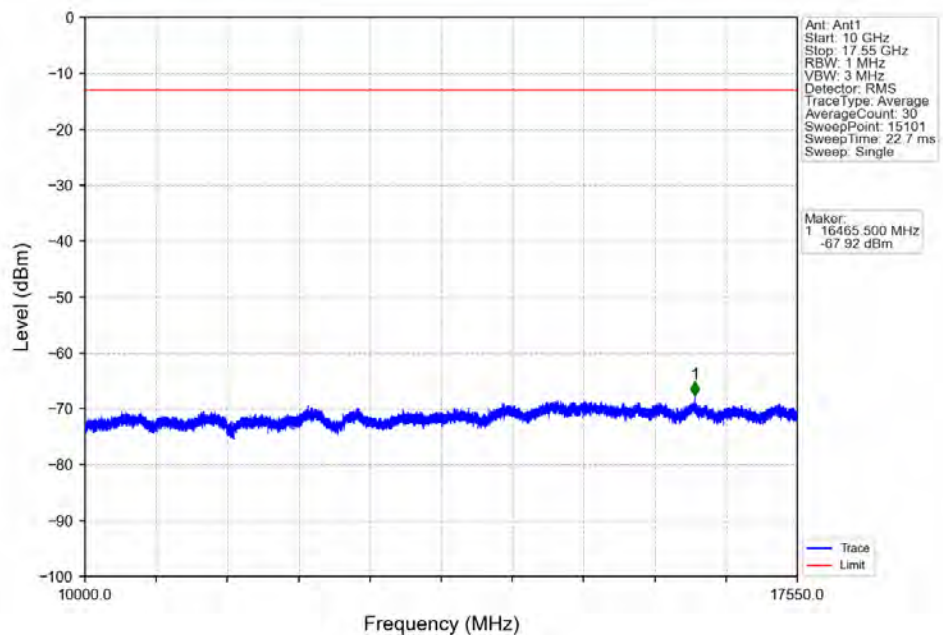
5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

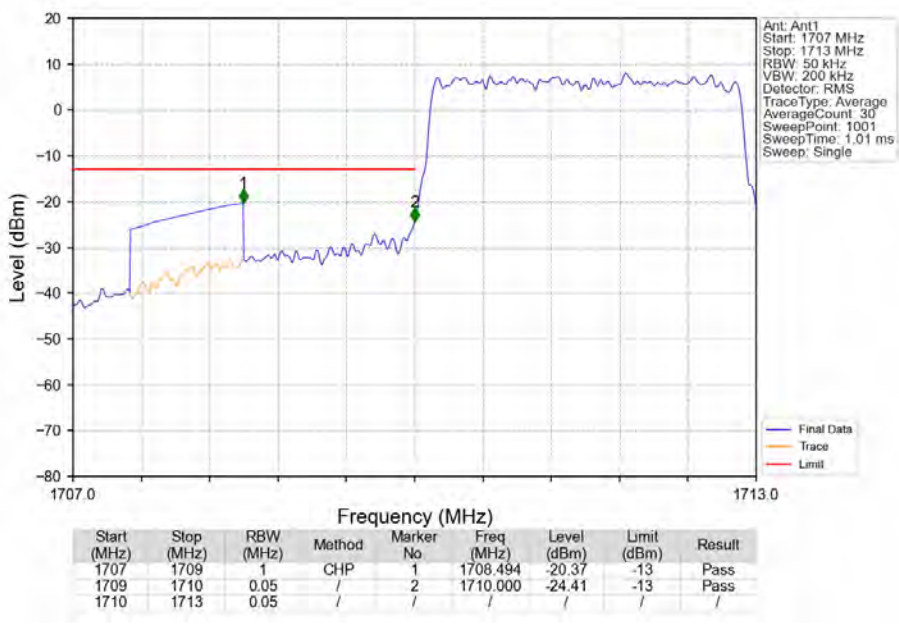
5.2.2 Test Graph



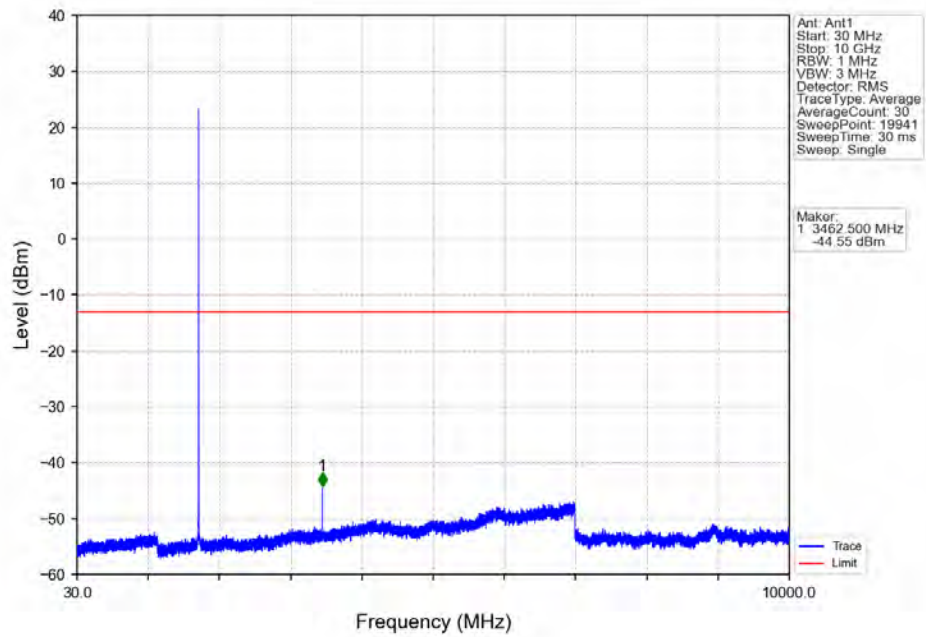
Band4 3MHz QPSK LCH 1711.5MHz RB 1 0 NTN



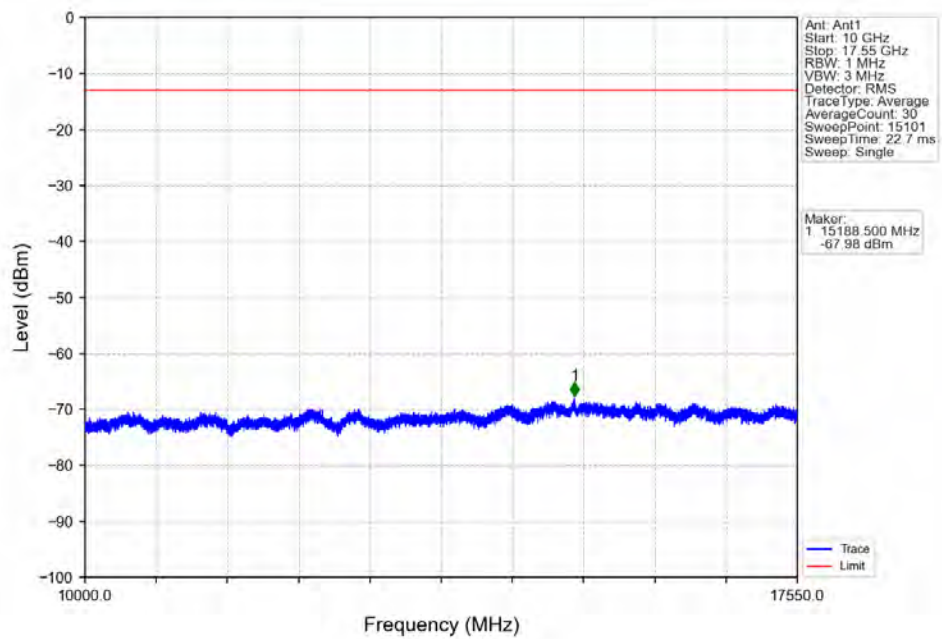
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTN



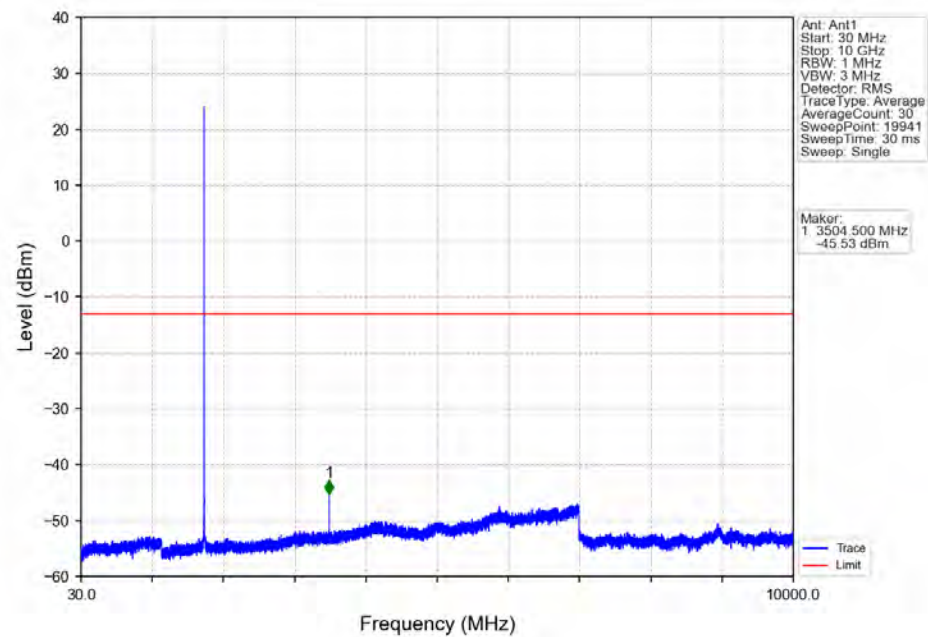
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



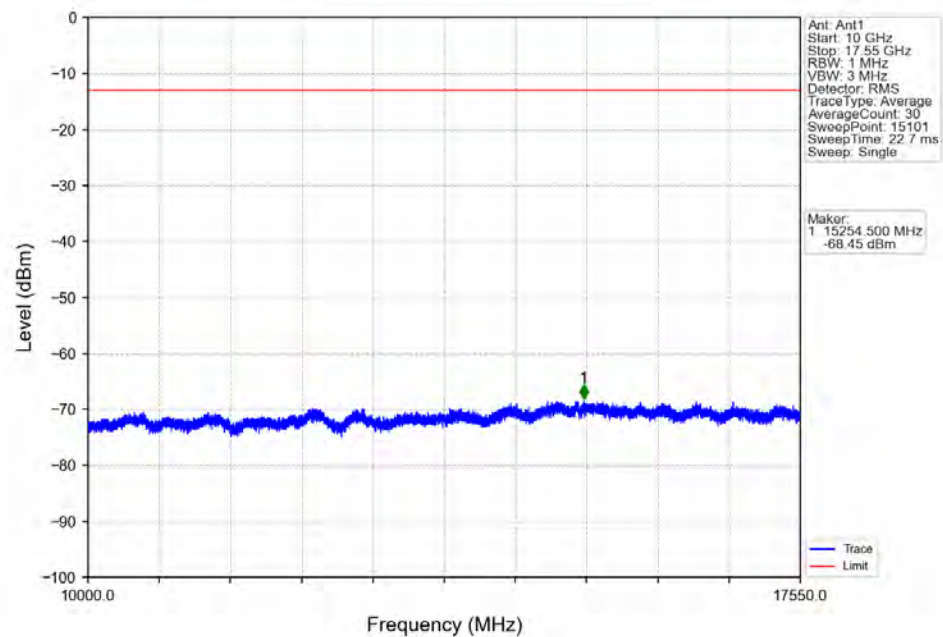
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



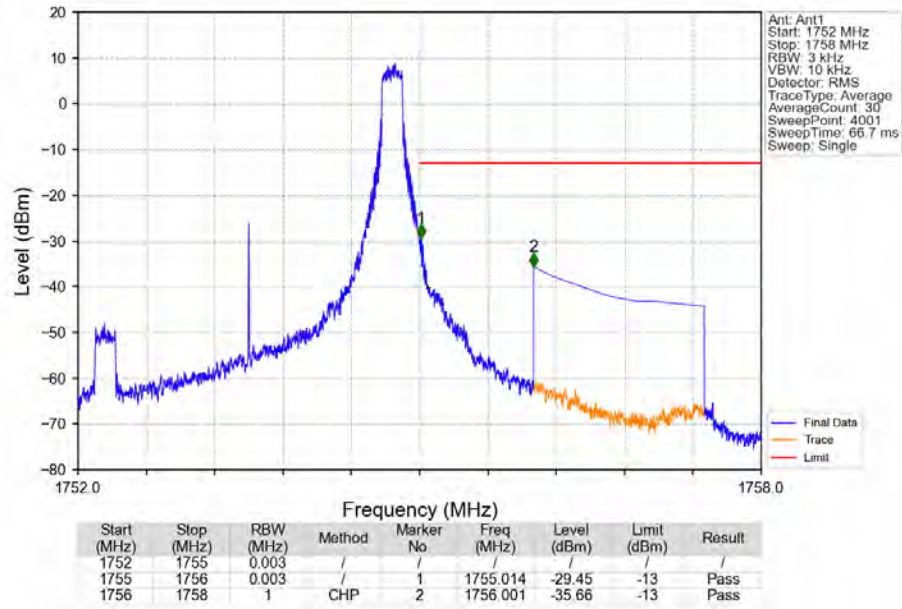
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTNV



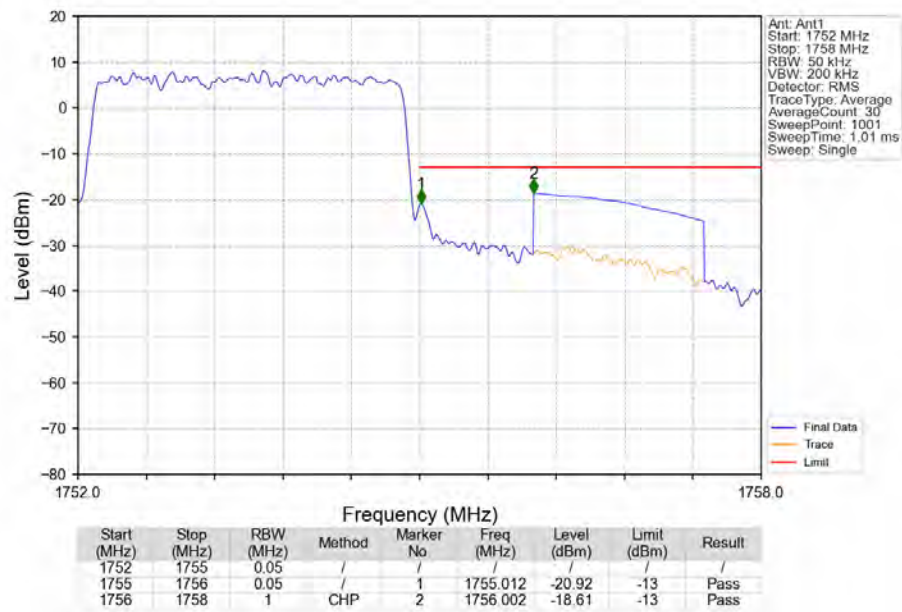
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTNV



Band4 3MHz QPSK HCH 1753.5MHz RB 1 14 NTNV



Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV

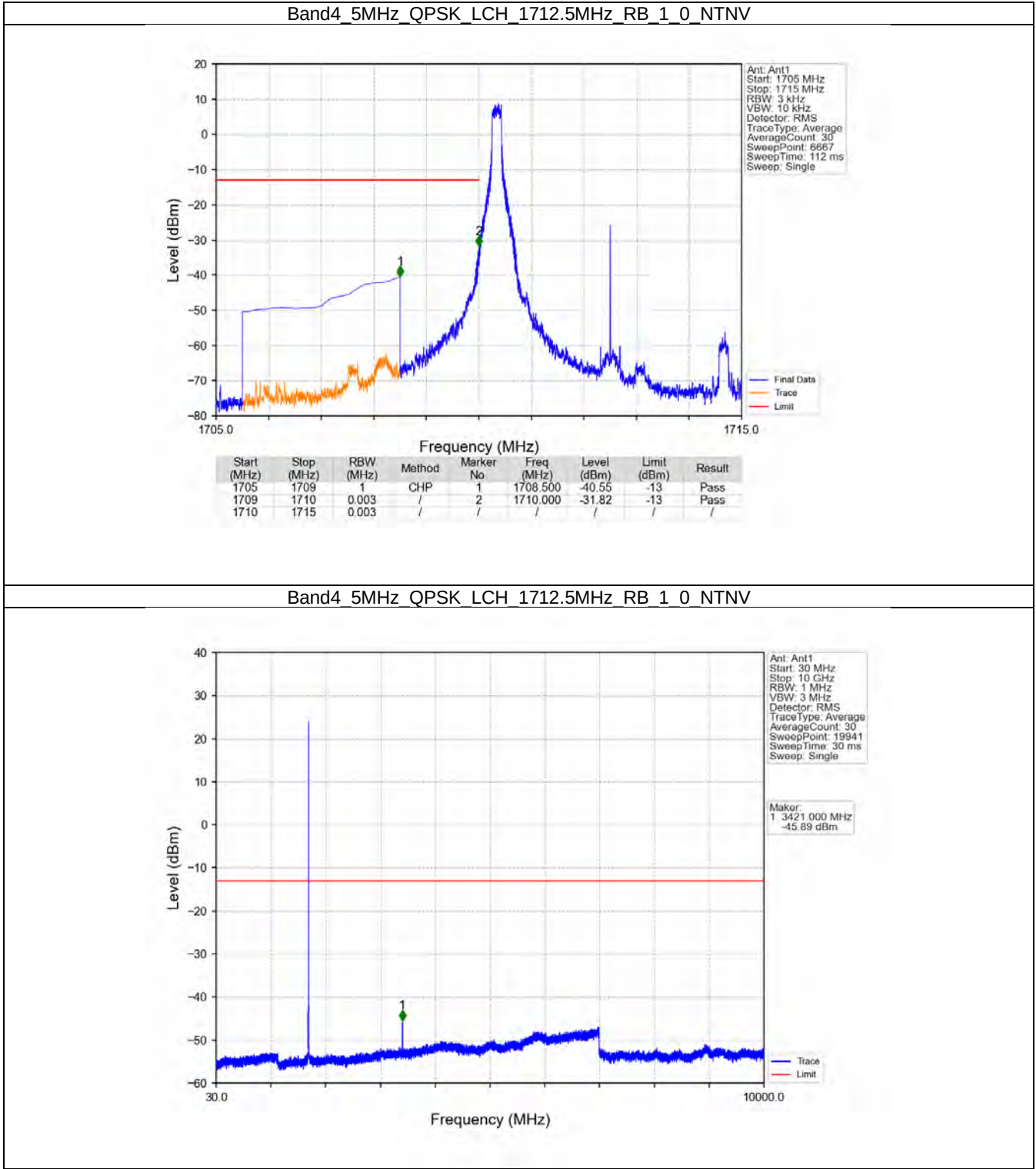


5.3 B4_5MHz

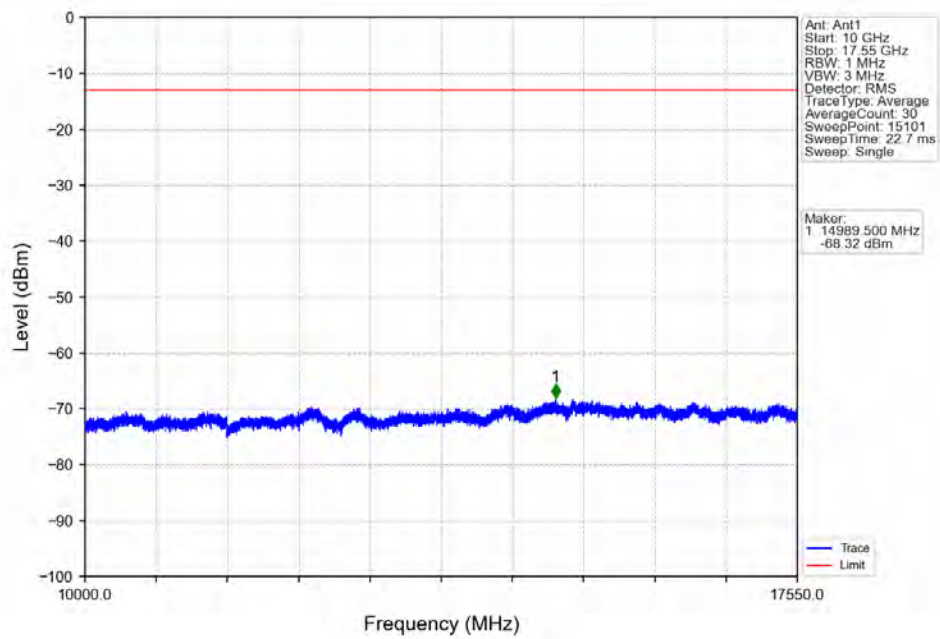
5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

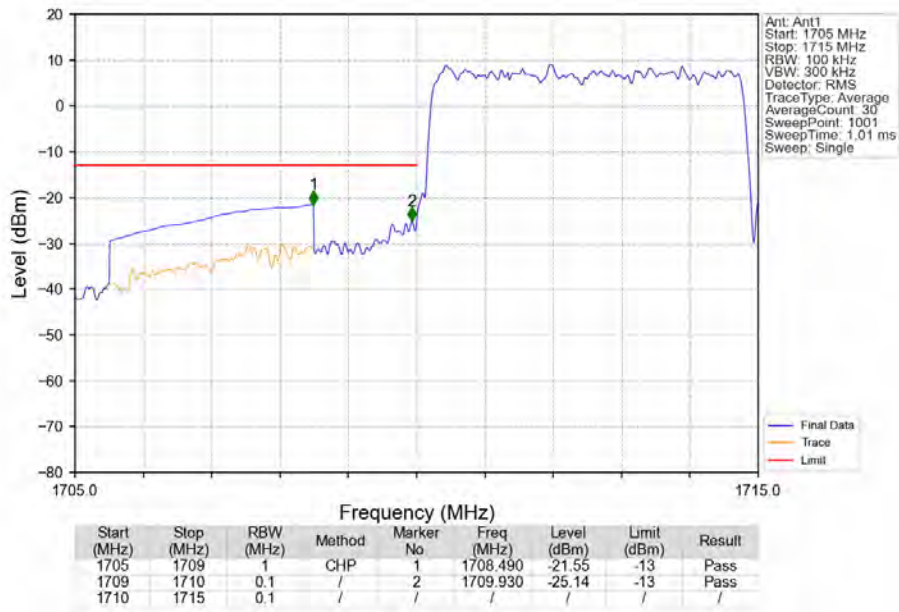
5.3.2 Test Graph



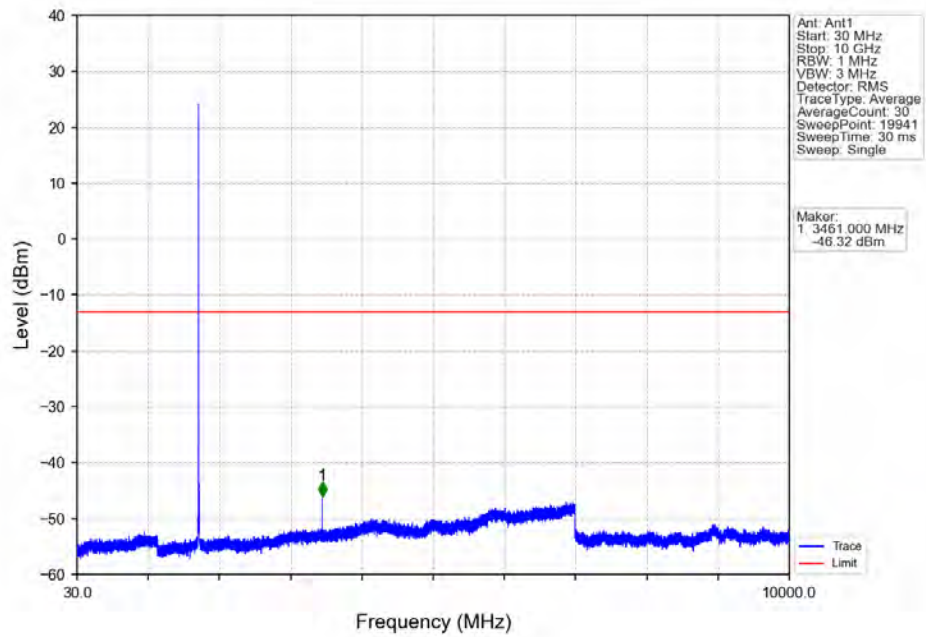
Band4 5MHz QPSK LCH 1712.5MHz RB 1 0 NTN



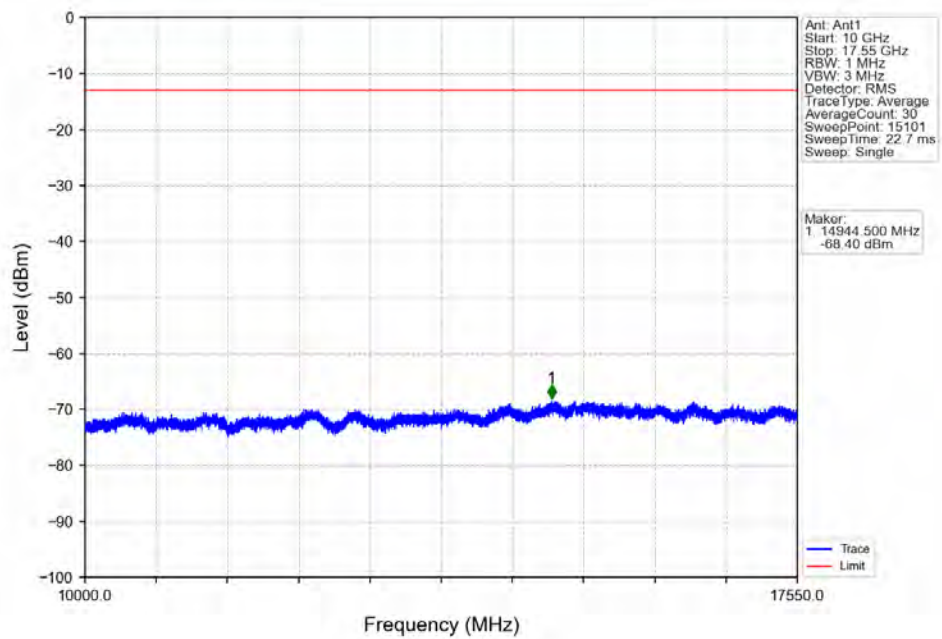
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTN



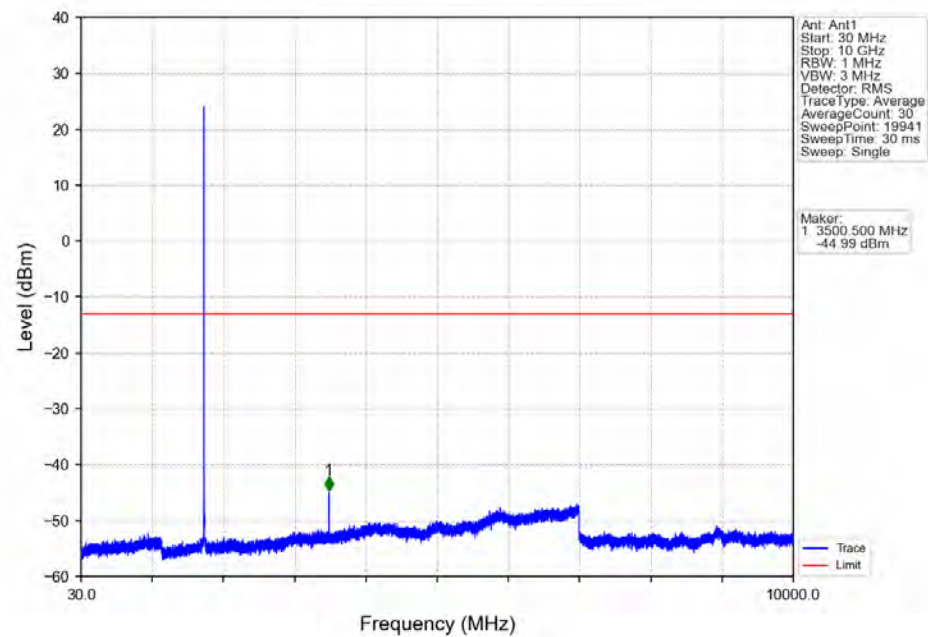
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



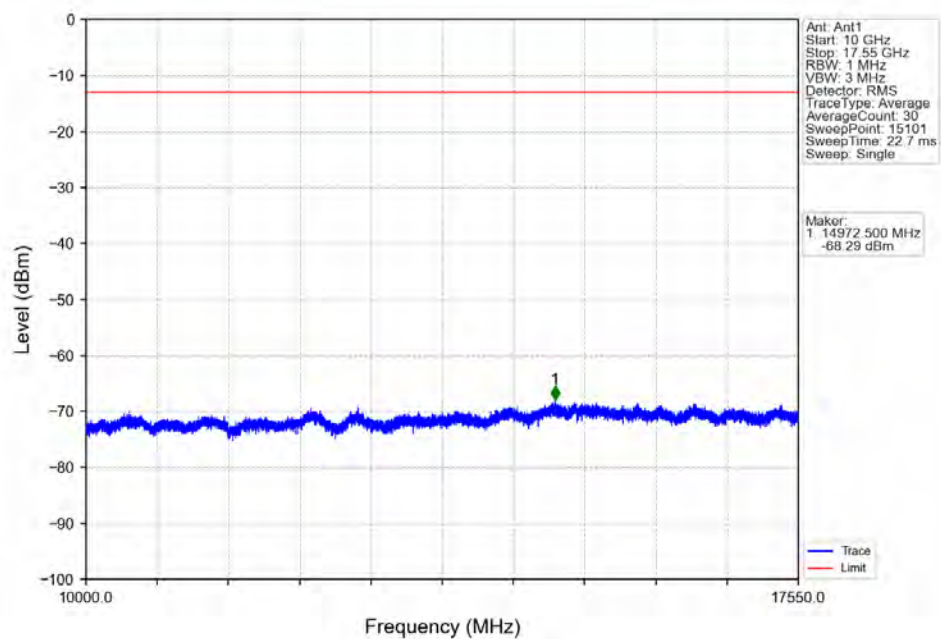
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



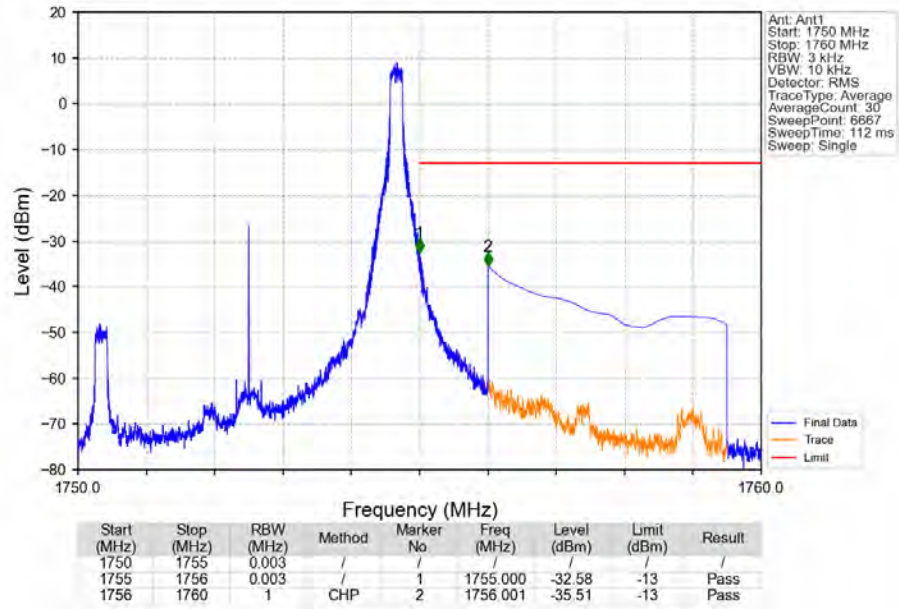
Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN



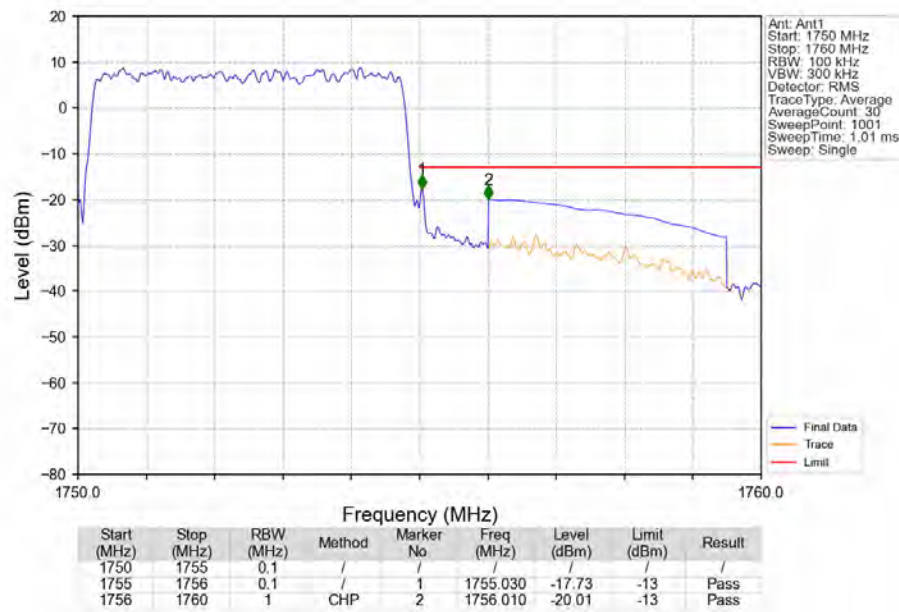
Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN



Band4 5MHz QPSK HCH 1752.5MHz RB 1 24 NTNV



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

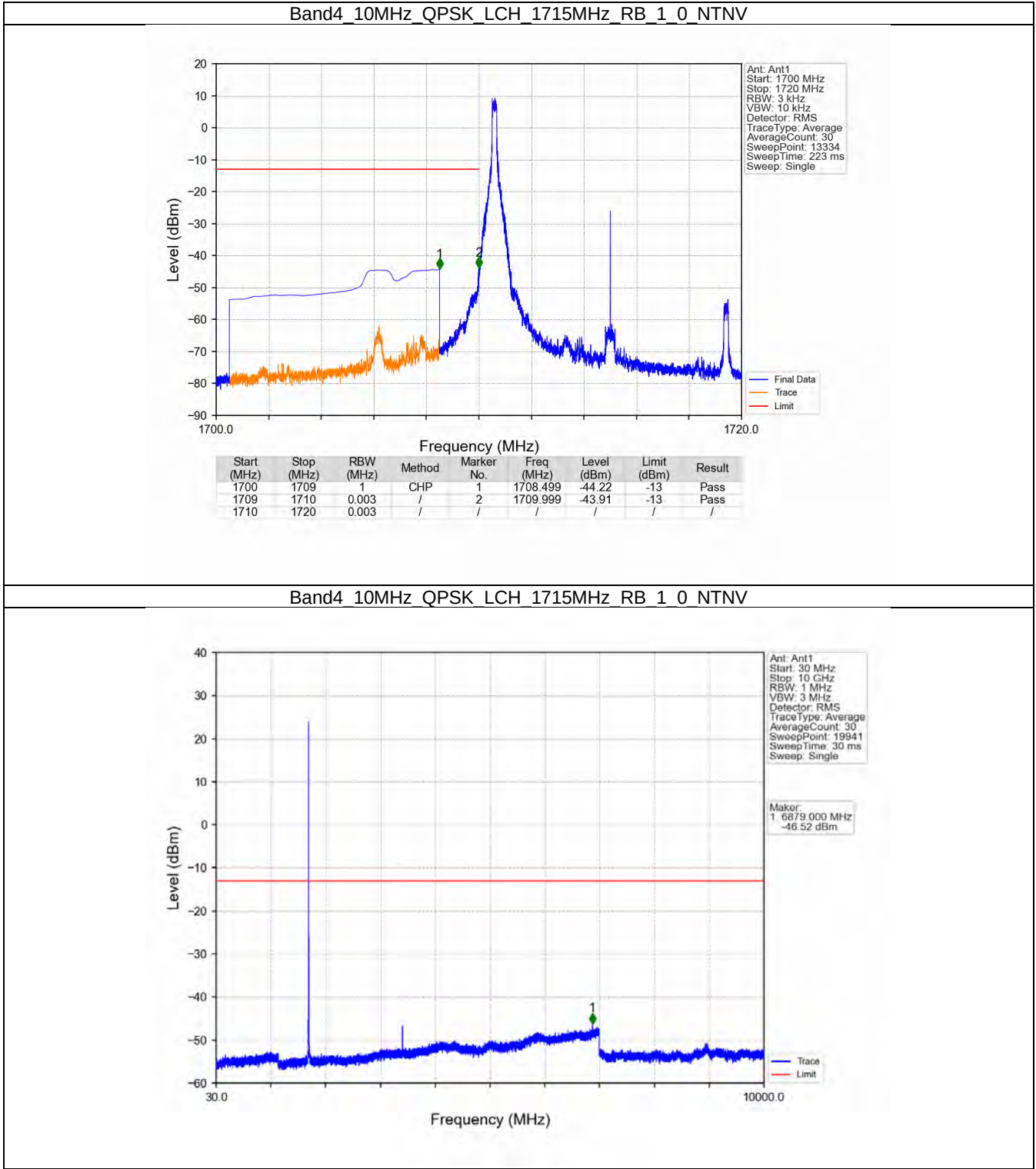


5.4 B4_10MHz

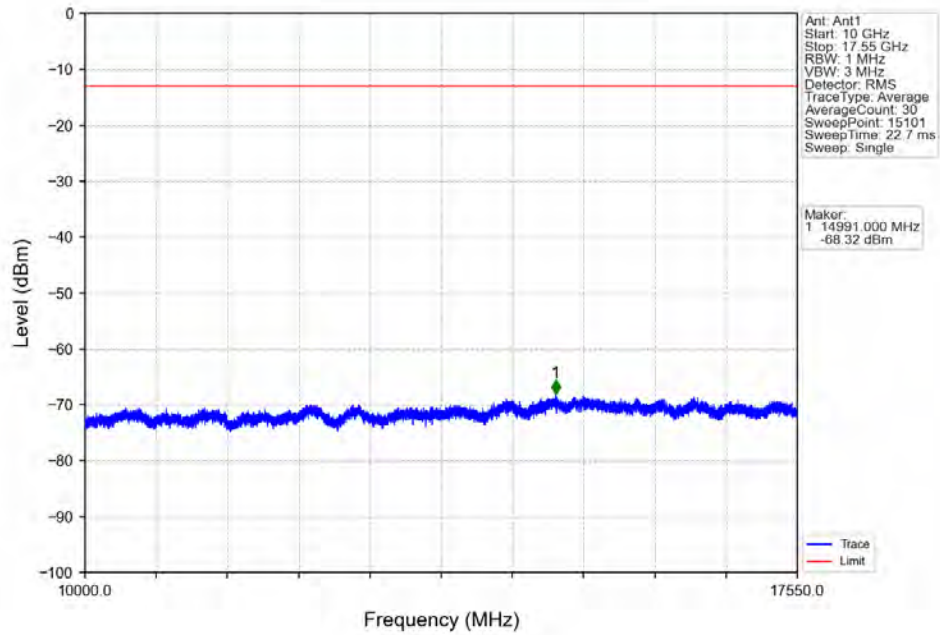
5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

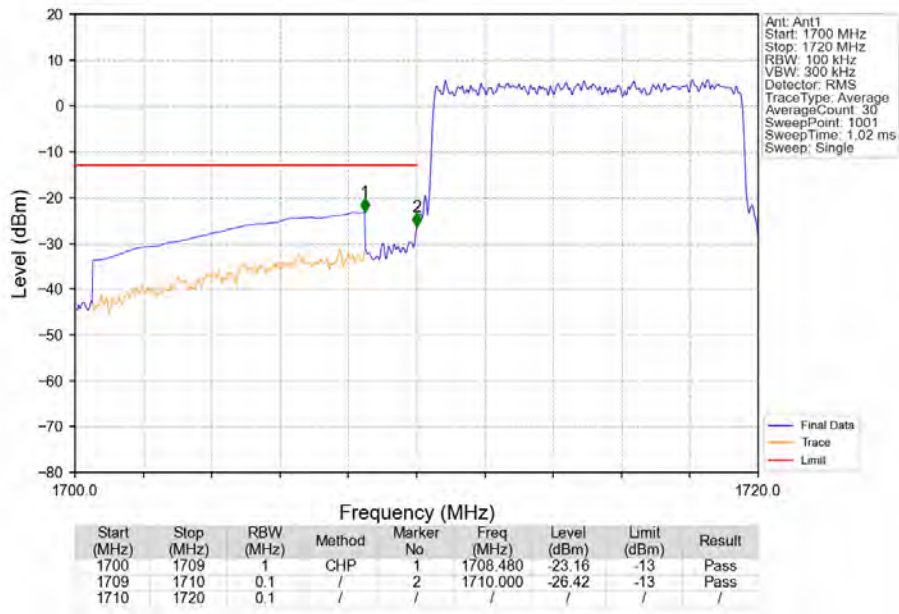
5.4.2 Test Graph



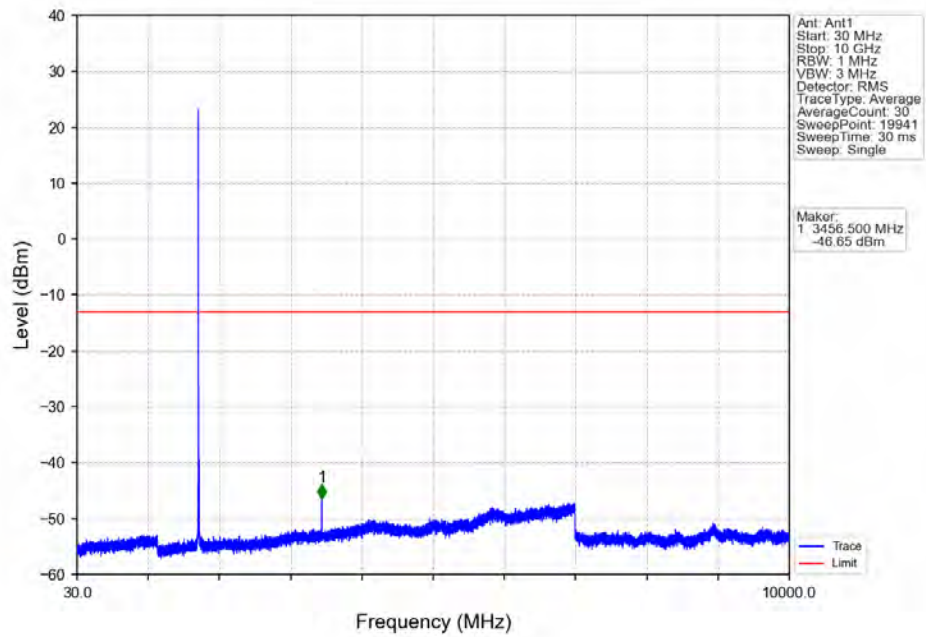
Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



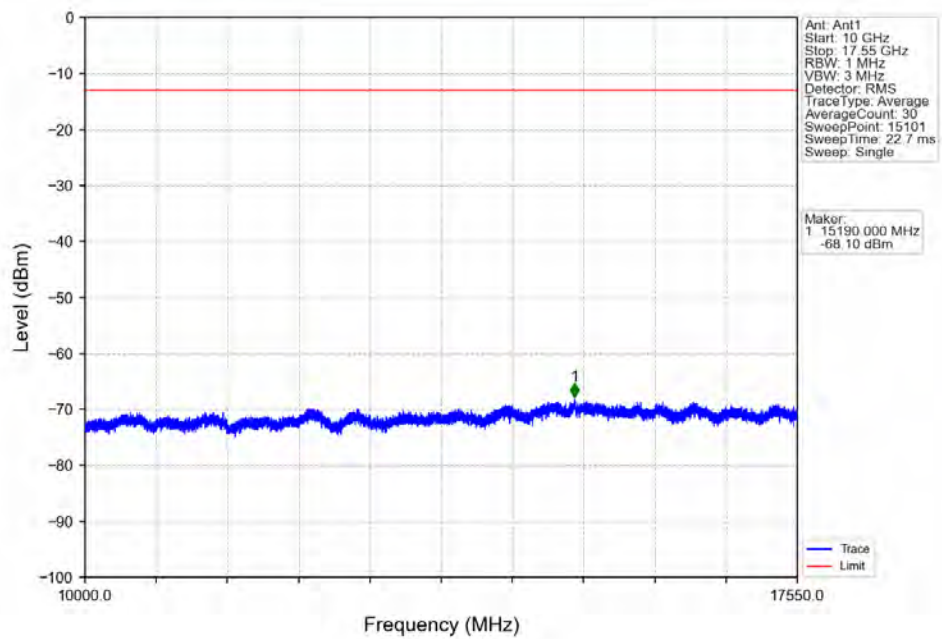
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



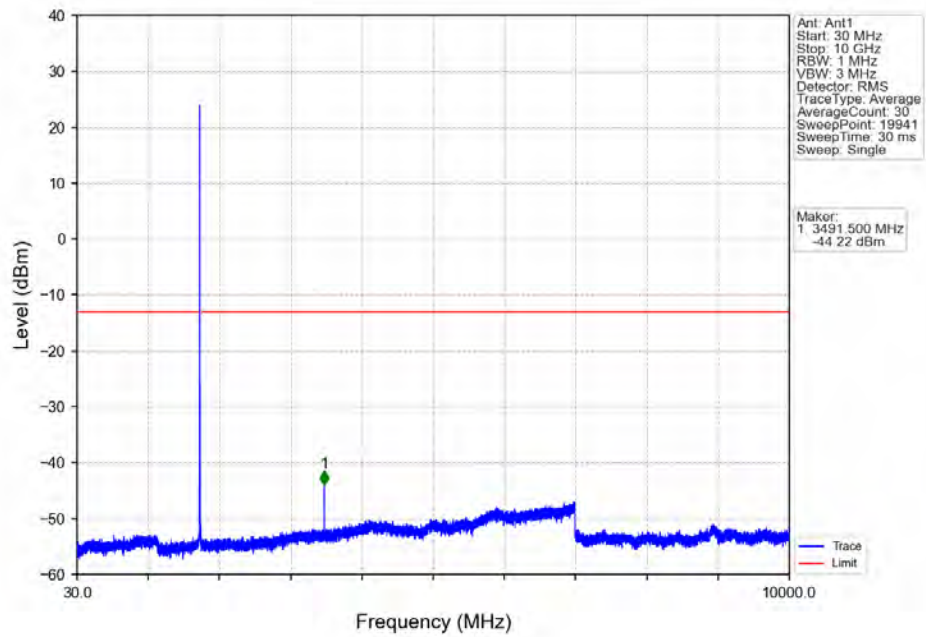
Band4 10MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



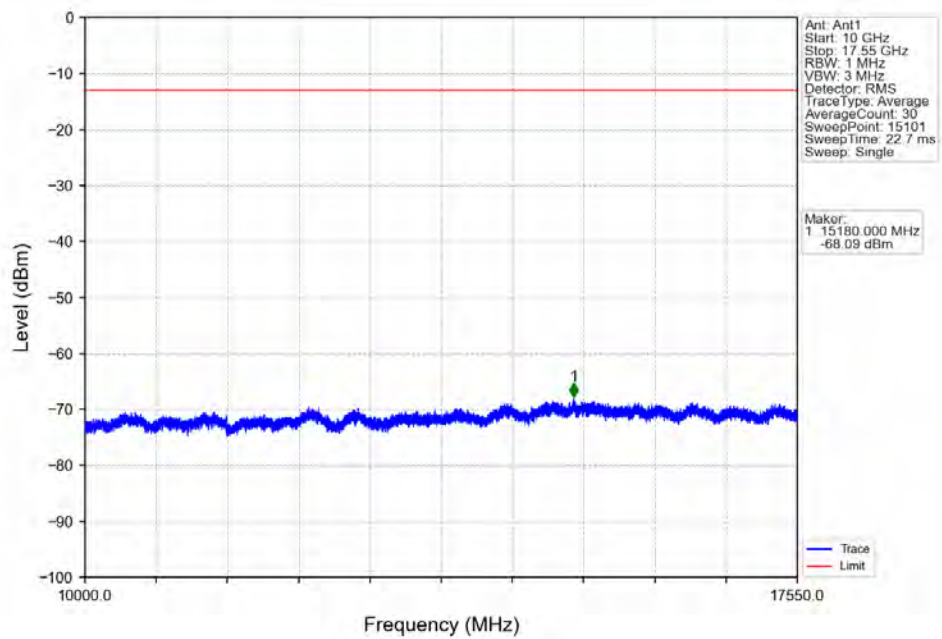
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



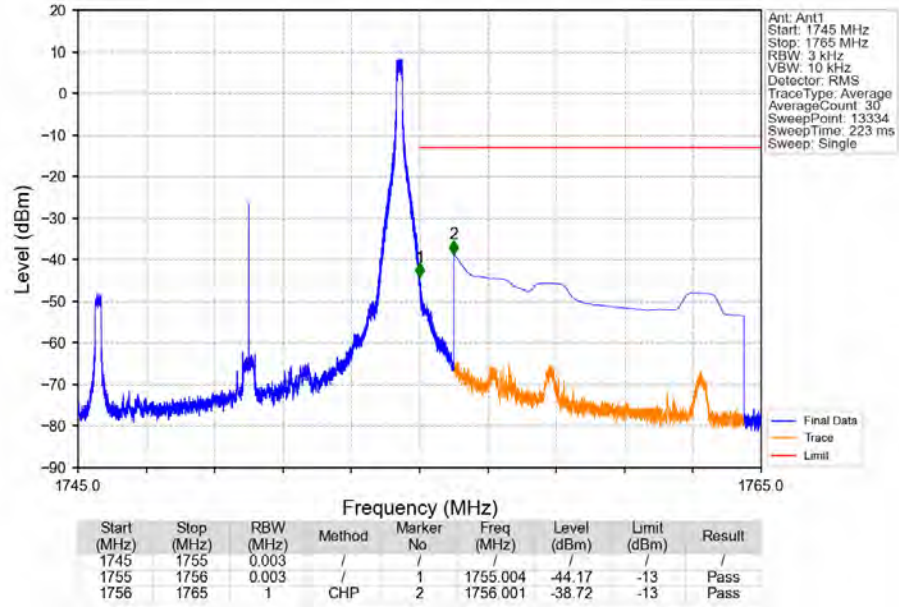
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



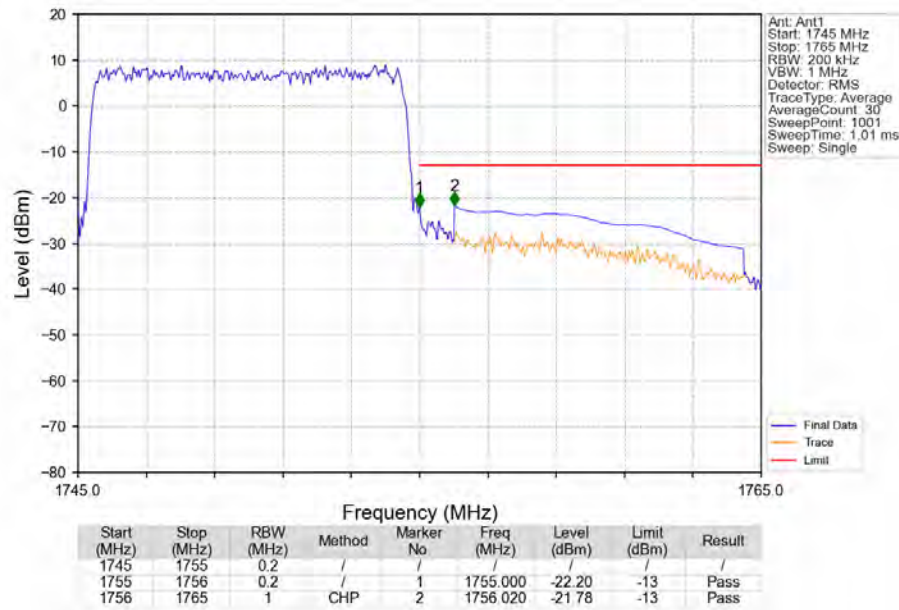
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



Band4 10MHz QPSK HCH 1750MHz RB 1 49 NTV



Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTV

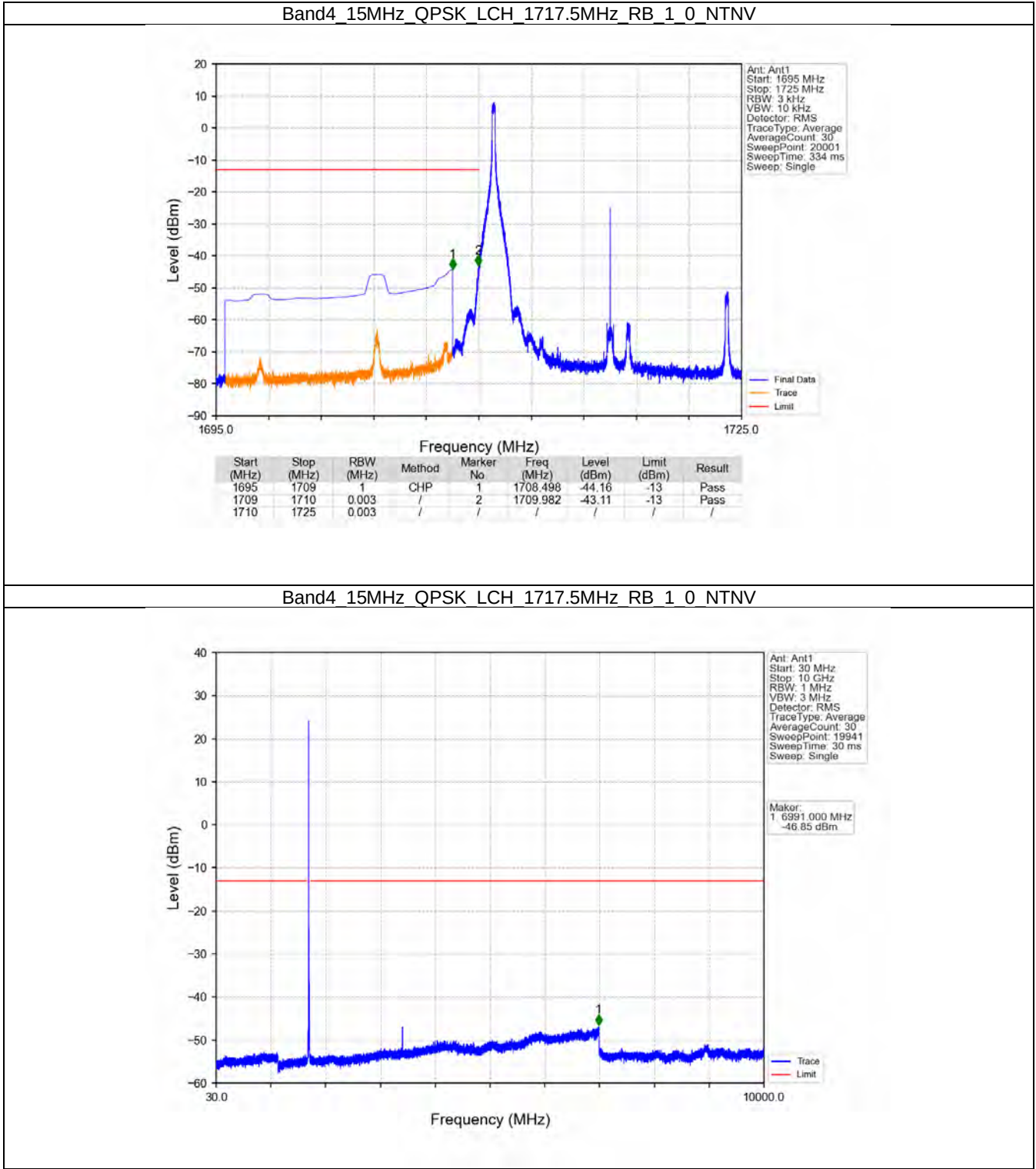


5.5 B4_15MHz

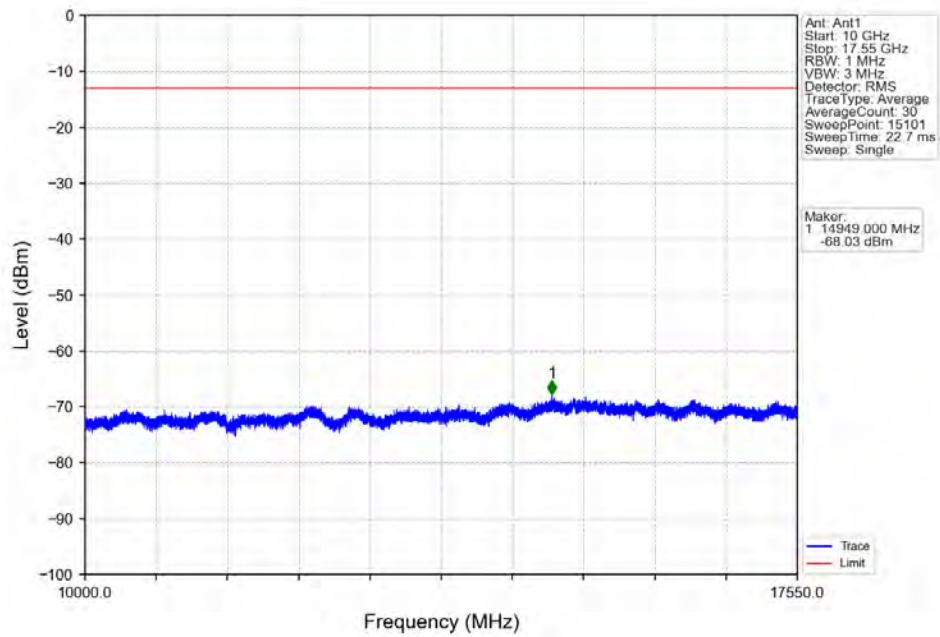
5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

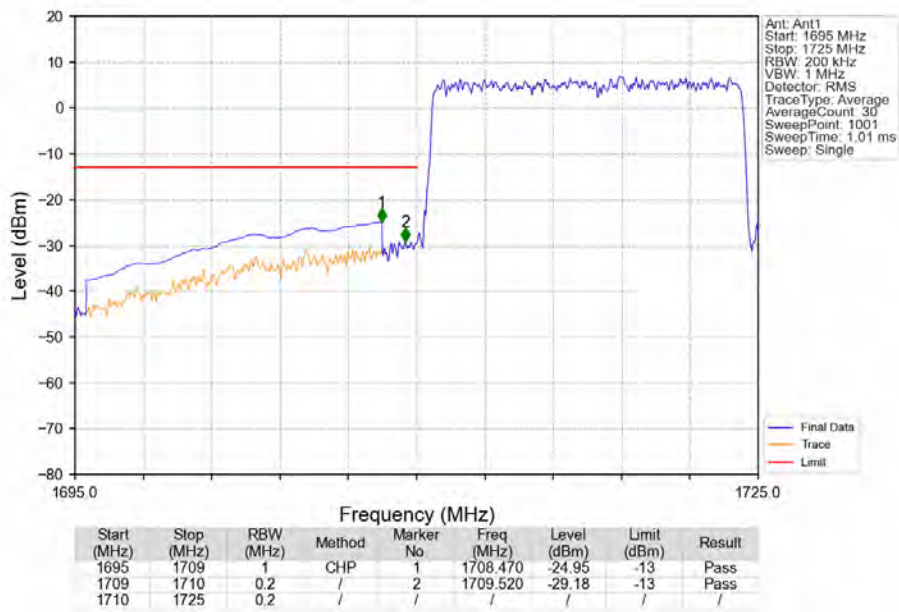
5.5.2 Test Graph



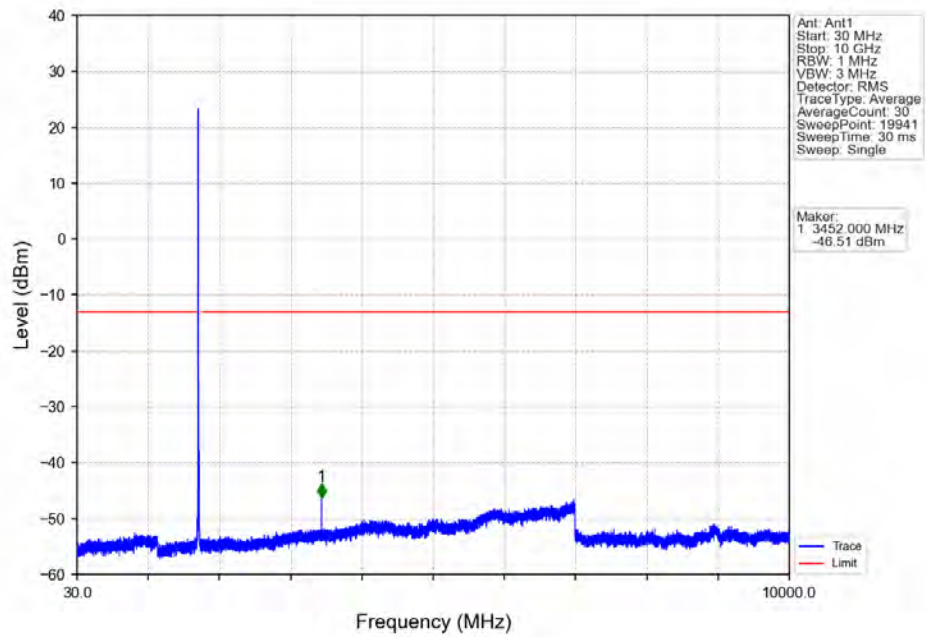
Band4 15MHz QPSK LCH 1717.5MHz RB 1 0 NTV



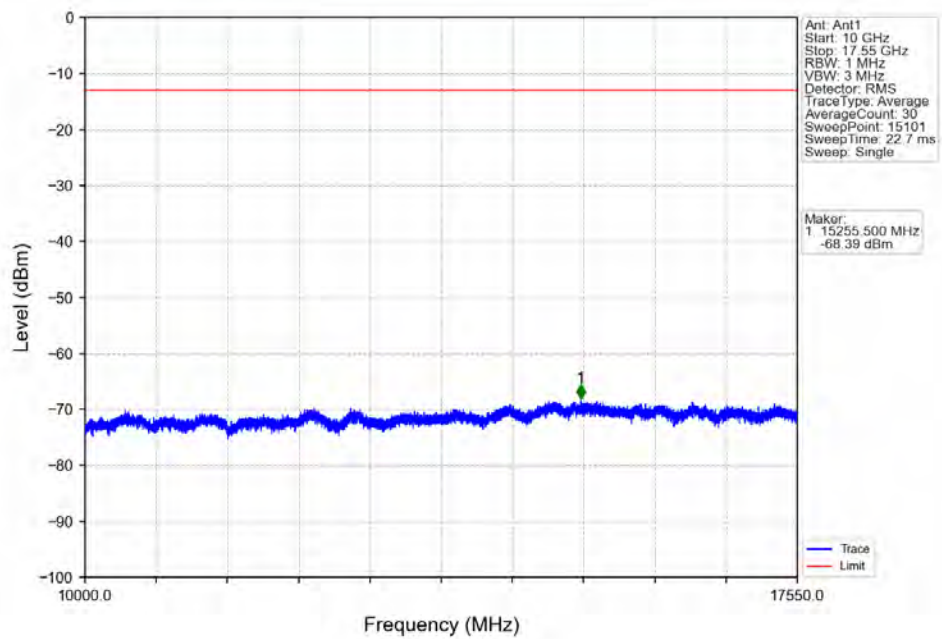
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTV



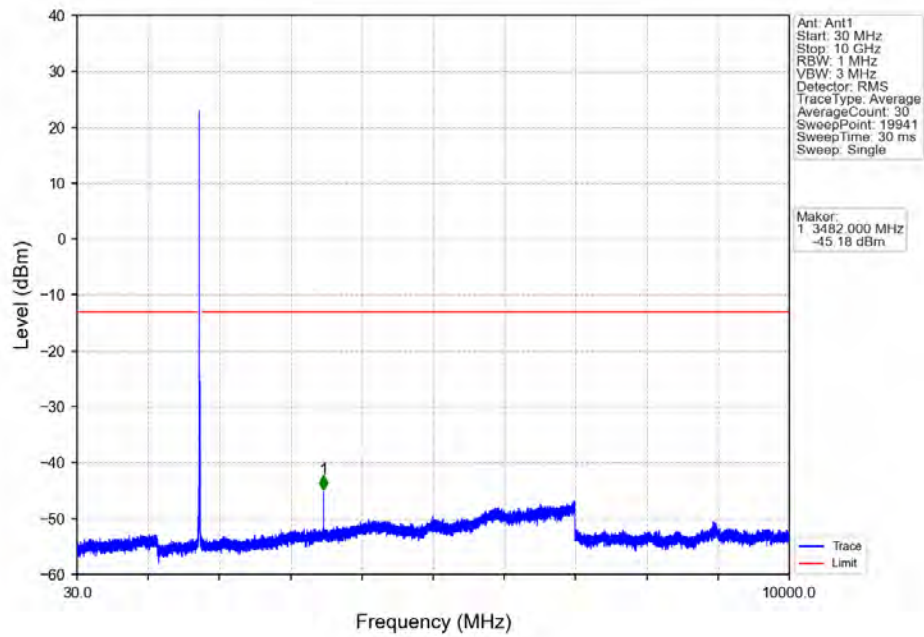
Band4 15MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



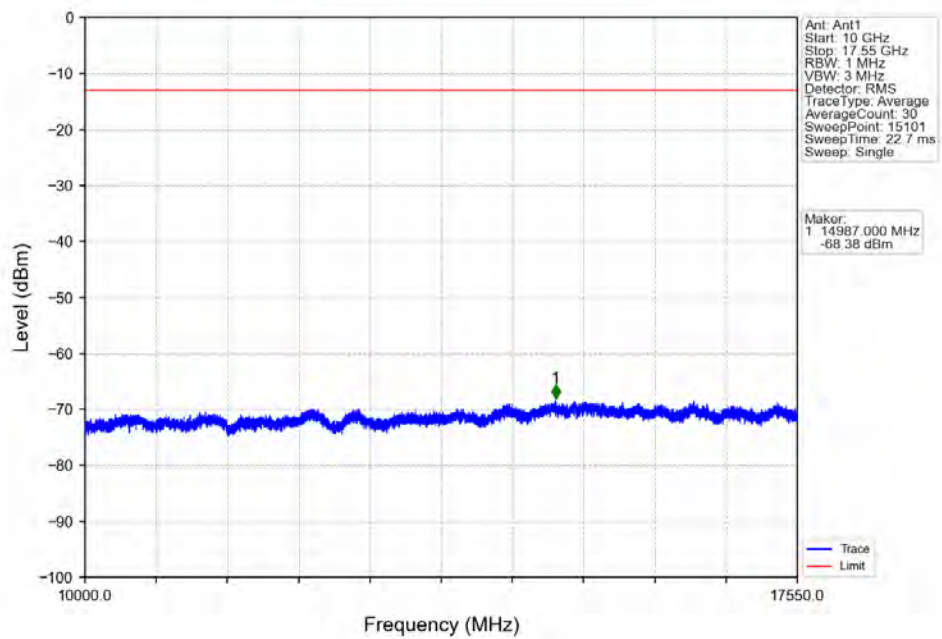
Band4 15MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



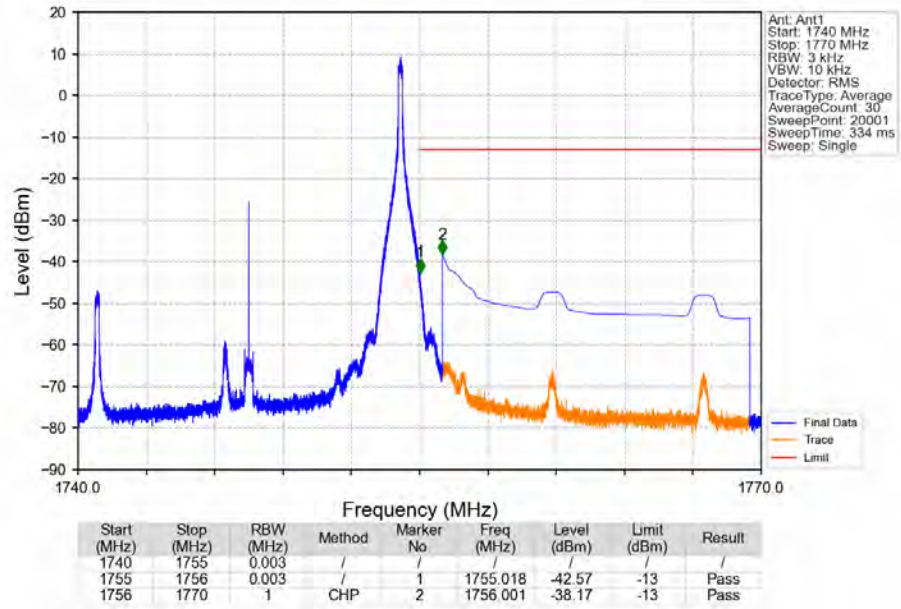
Band4 15MHz QPSK HCH 1747.5MHz RB 1 0 NTN



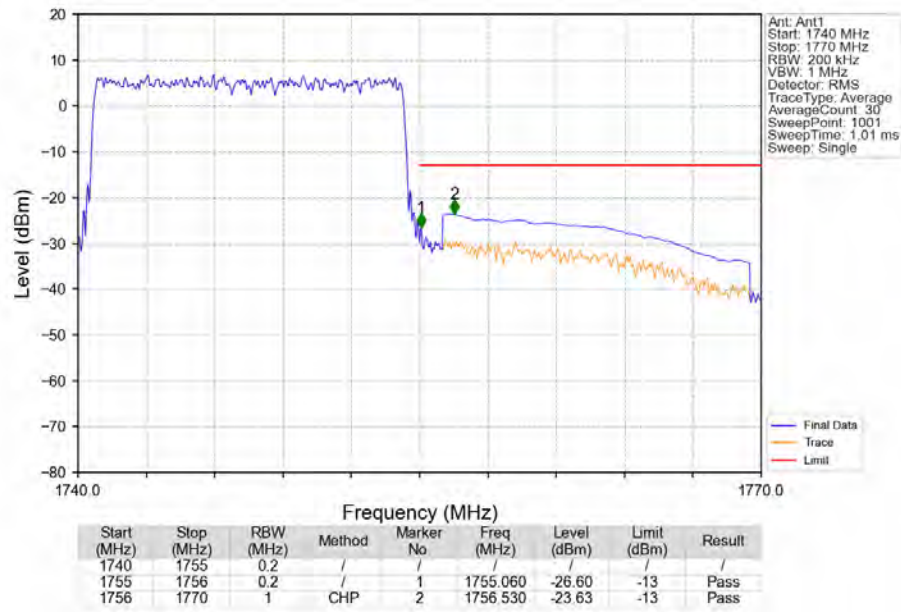
Band4 15MHz QPSK HCH 1747.5MHz RB 1 0 NTN



Band4 15MHz QPSK HCH 1747.5MHz RB 1 74 NTV



Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTV

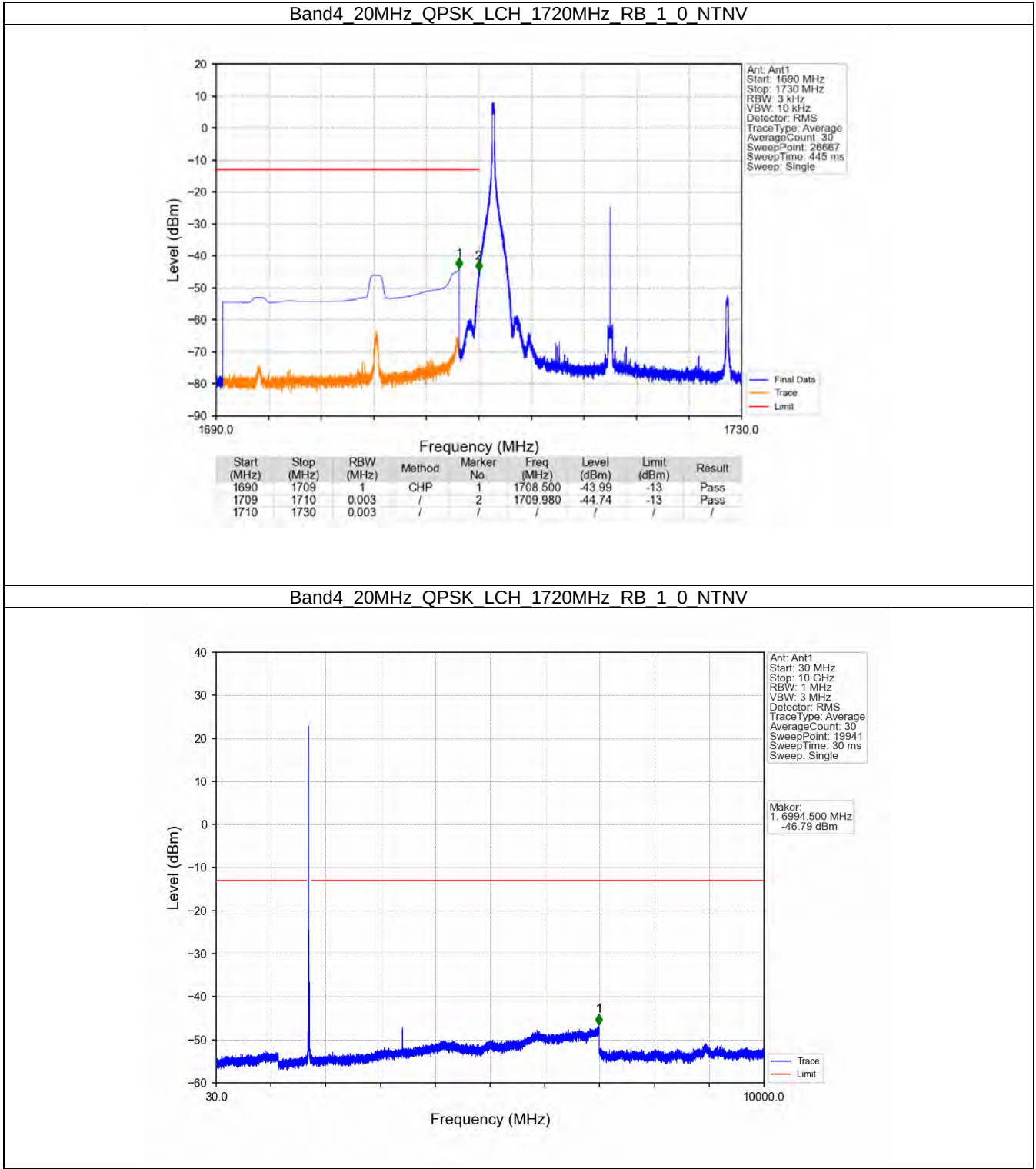


5.6 B4_20MHz

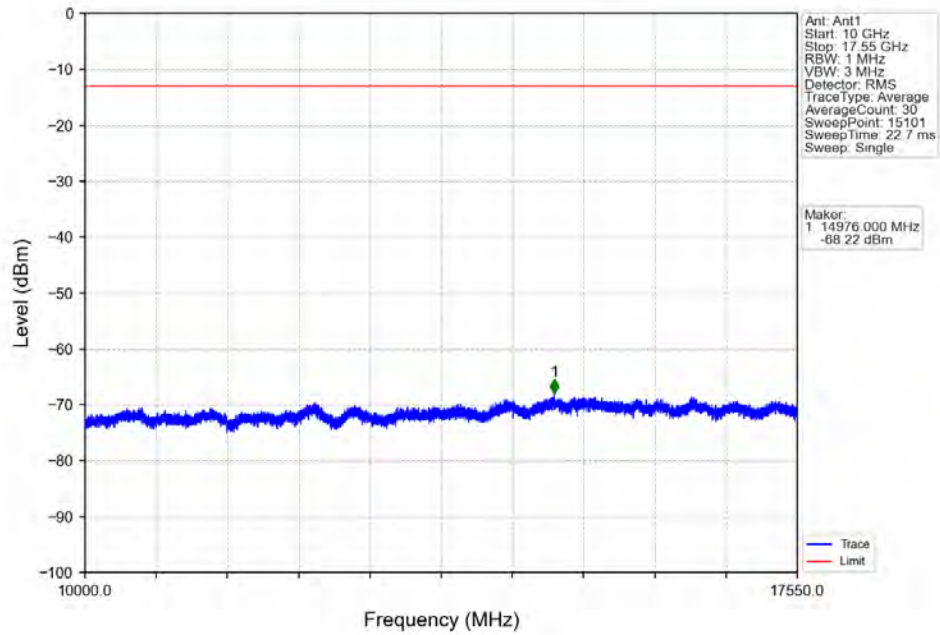
5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

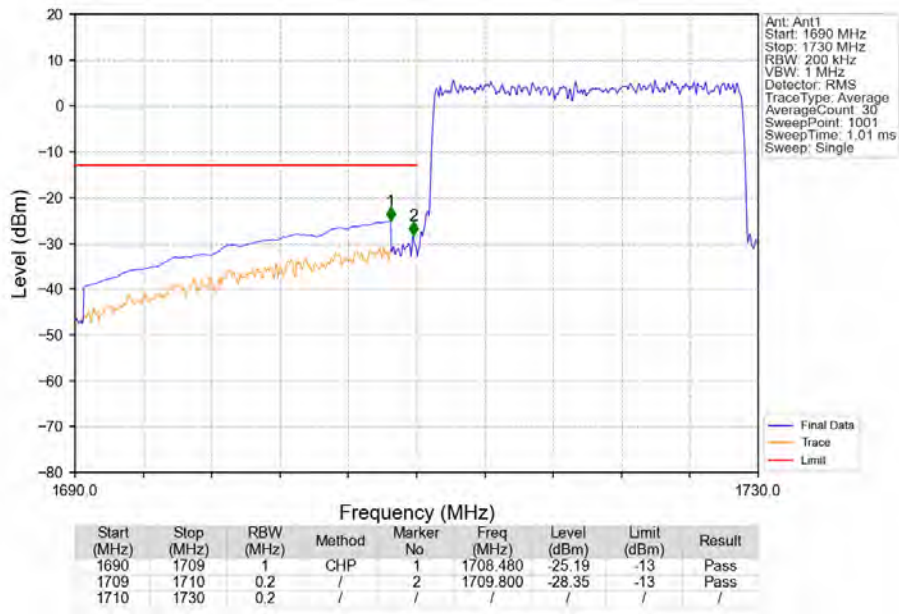
5.6.2 Test Graph



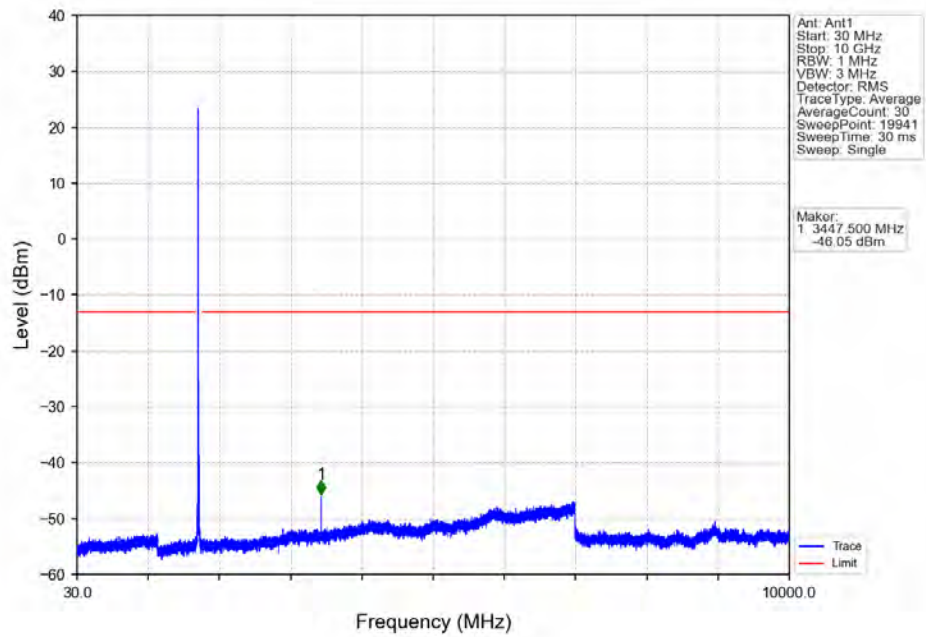
Band4 20MHz QPSK LCH 1720MHz RB 1 0 NTN



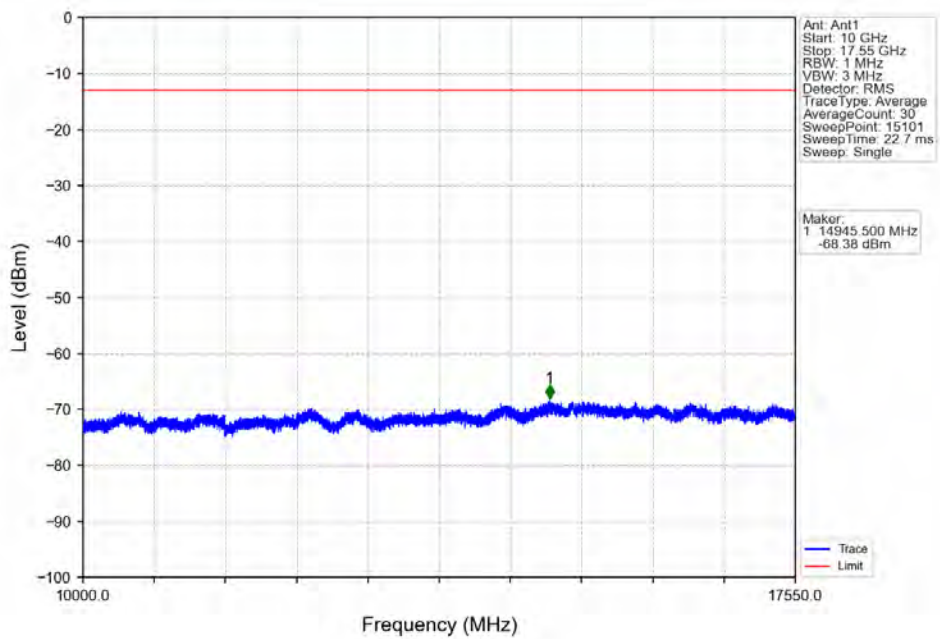
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTN



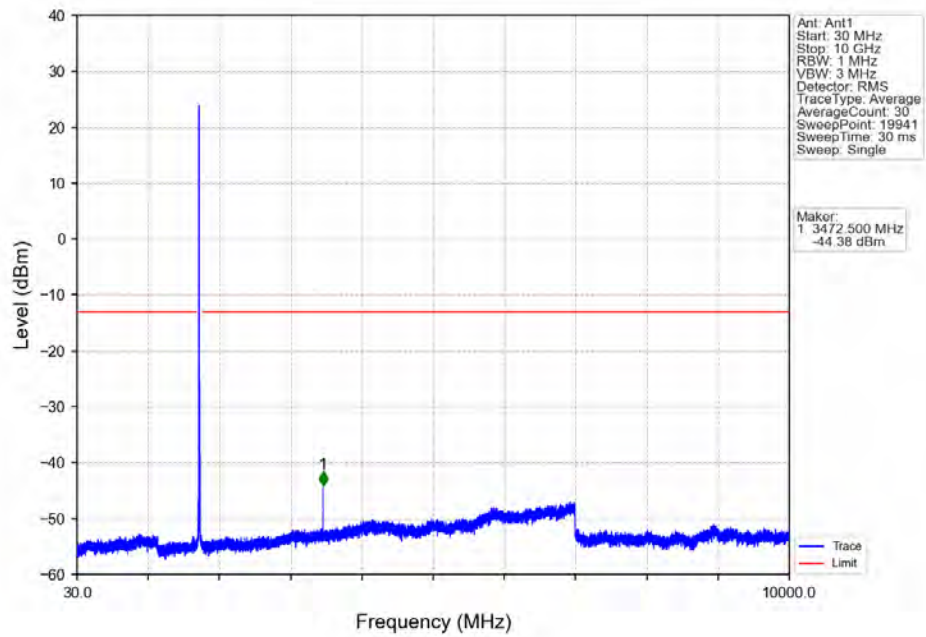
Band4 20MHz QPSK MCH 1732.5MHz RB 1 0 NTN



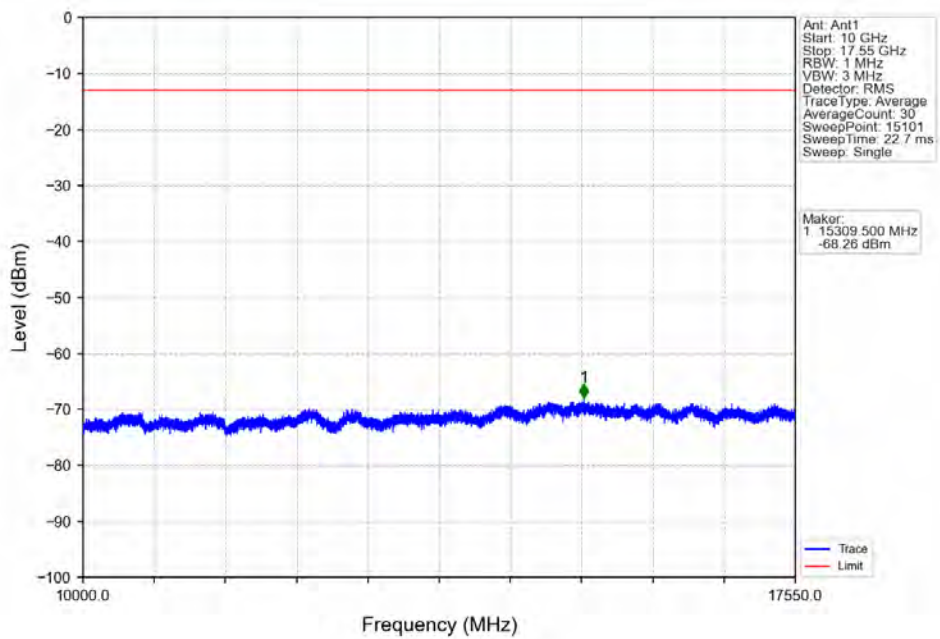
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0 NTN



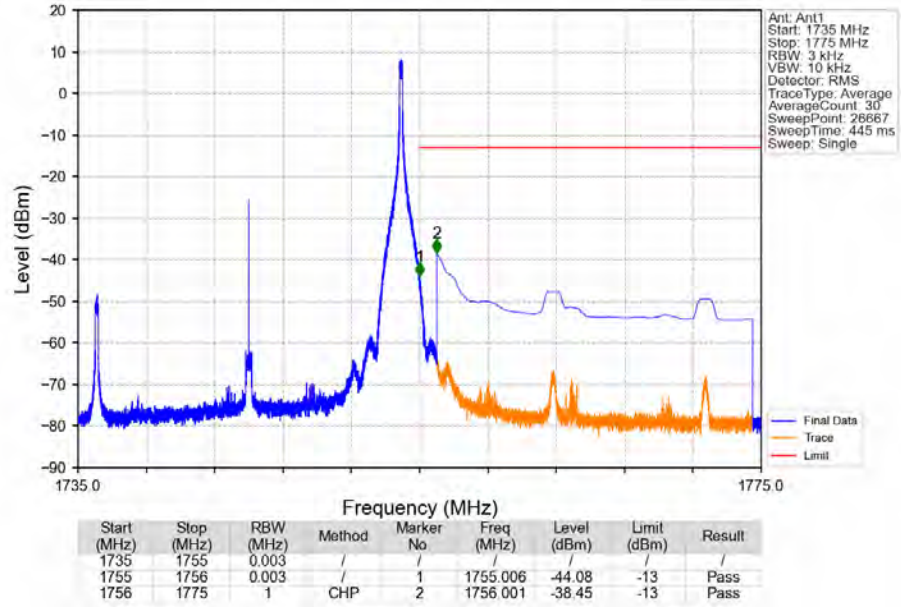
Band4 20MHz QPSK HCH 1745MHz RB 1 0 NTNV



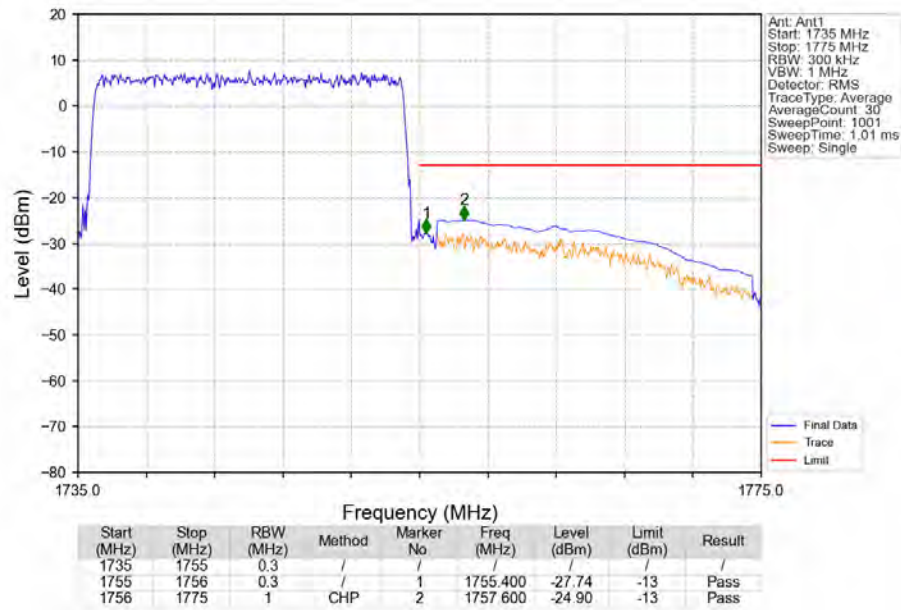
Band4 20MHz QPSK HCH 1745MHz RB 1 0 NTNV



Band4 20MHz QPSK HCH 1745MHz RB 1 99 NTV



Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTV



6. Field Strength of Spurious Radiation

LTE Band 4 ANT41-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422.0	-66.59	-13	-53.59	-71.21	3.36	7.98	Horizontal	Pass
5133.0	-58.52	-13	-45.52	-64.13	4.61	10.22	Horizontal	Pass
6844.0	-60.42	-13	-47.42	-66.45	4.9	10.93	Horizontal	Pass
3422.0	-63.16	-13	-50.16	-67.78	3.36	7.98	Vertical	Pass
5133.0	-58.59	-13	-45.59	-64.2	4.61	10.22	Vertical	Pass
6844.0	-61.07	-13	-48.07	-67.1	4.9	10.93	Vertical	Pass

LTE Band 4 ANT41-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447.0	-66.37	-13	-53.37	-71.04	3.37	8.04	Horizontal	Pass
5170.5	-58.4	-13	-45.4	-64.03	4.62	10.25	Horizontal	Pass
6894.0	-61.33	-13	-48.33	-67.42	4.9	10.99	Horizontal	Pass
3447.0	-63.79	-13	-50.79	-68.46	3.37	8.04	Vertical	Pass
5170.5	-57.25	-13	-44.25	-62.88	4.62	10.25	Vertical	Pass
6894.0	-61.44	-13	-48.44	-67.53	4.9	10.99	Vertical	Pass

LTE Band 4 ANT41-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472.0	-67.07	-13	-54.07	-71.78	3.39	8.1	Horizontal	Pass
5208.0	-57.7	-13	-44.7	-63.33	4.64	10.27	Horizontal	Pass
6944.0	-61.3	-13	-48.3	-67.45	4.91	11.06	Horizontal	Pass
3472.0	-63.15	-13	-50.15	-67.86	3.39	8.1	Vertical	Pass
5208.0	-58.08	-13	-45.08	-63.71	4.64	10.27	Vertical	Pass
6944.0	-61.13	-13	-48.13	-67.28	4.91	11.06	Vertical	Pass

CA 4A-5A -Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649.0	-74.08	-13	-61.08	-76.96	2.62	5.5	Horizontal	Pass
2473.5	-71.19	-13	-58.19	-73.89	3.06	5.76	Horizontal	Pass
3298.0	-66.81	-13	-53.81	-71.17	3.3	7.66	Horizontal	Pass
1649.0	-73.9	-13	-60.9	-76.78	2.62	5.5	Vertical	Pass
2473.5	-70.87	-13	-57.87	-73.57	3.06	5.76	Vertical	Pass
3298.0	-66.88	-13	-53.88	-71.24	3.3	7.66	Vertical	Pass

CA 4A-5A -Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664.0	-74.13	-13	-61.13	-76.97	2.63	5.47	Horizontal	Pass
2496.0	-71.2	-13	-58.2	-73.93	3.08	5.81	Horizontal	Pass
3328.0	-67.03	-13	-54.03	-71.46	3.31	7.74	Horizontal	Pass
1664.0	-74.29	-13	-61.29	-77.13	2.63	5.47	Vertical	Pass
2496.0	-70.76	-13	-57.76	-73.49	3.08	5.81	Vertical	Pass
3328.0	-67.05	-13	-54.05	-71.48	3.31	7.74	Vertical	Pass

CA 4A-5A -High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679.0	-74.31	-13	-61.31	-77.11	2.63	5.43	Horizontal	Pass
2518.5	-71.69	-13	-58.69	-74.47	3.08	5.86	Horizontal	Pass
3358.0	-67.06	-13	-54.06	-71.55	3.33	7.82	Horizontal	Pass
1679.0	-74.15	-13	-61.15	-76.95	2.63	5.43	Vertical	Pass
2518.5	-71.06	-13	-58.06	-73.84	3.08	5.86	Vertical	Pass
3358.0	-67.26	-13	-54.26	-71.75	3.33	7.82	Vertical	Pass

CA 4A-7A -Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5002.0	-62.48	-25	-37.48	-68.05	4.57	10.14	Horizontal	Pass
7503.0	-60.53	-25	-35.53	-67.33	4.94	11.74	Horizontal	Pass
10004.0	-57.49	-25	-32.49	-65.06	5.46	13.03	Horizontal	Pass
5002.0	-62.6	-25	-37.6	-68.17	4.57	10.14	Vertical	Pass
7503.0	-60.93	-25	-35.93	-67.73	4.94	11.74	Vertical	Pass
10004.0	-57.3	-25	-32.3	-64.87	5.46	13.03	Vertical	Pass

CA 4A-7A -Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052.0	-63.05	-25	-38.05	-68.63	4.59	10.17	Horizontal	Pass
7578.0	-60.66	-25	-35.66	-67.54	4.95	11.83	Horizontal	Pass
10104.0	-57.08	-25	-32.08	-64.65	5.48	13.05	Horizontal	Pass
5052.0	-63.06	-25	-38.06	-68.64	4.59	10.17	Vertical	Pass
7578.0	-60.73	-25	-35.73	-67.61	4.95	11.83	Vertical	Pass
10104.0	-57.4	-25	-32.4	-64.97	5.48	13.05	Vertical	Pass

CA 4A-7A -High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5102.0	-63.17	-25	-38.17	-68.77	4.6	10.2	Horizontal	Pass
7653.0	-60.01	-25	-35.01	-66.98	4.95	11.92	Horizontal	Pass
10204.0	-57.15	-25	-32.15	-64.73	5.49	13.07	Horizontal	Pass
5102.0	-63.21	-25	-38.21	-68.81	4.6	10.2	Vertical	Pass
7653.0	-59.86	-25	-34.86	-66.83	4.95	11.92	Vertical	Pass
10204.0	-57.66	-25	-32.66	-65.24	5.49	13.07	Vertical	Pass

1) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---