

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	24.12	3.00	27.12	<=30	Pass
			2	24.18	3.00	27.18	<=30	Pass
			5	24.13	3.00	27.13	<=30	Pass
		3	0	24.21	3.00	27.21	<=30	Pass
			2	24.24	3.00	27.24	<=30	Pass
			3	24.21	3.00	27.21	<=30	Pass
		6	0	23.14	3.00	26.14	<=30	Pass
	1732.5	1	0	24.17	3.00	27.17	<=30	Pass
			2	24.28	3.00	27.28	<=30	Pass
			5	24.16	3.00	27.16	<=30	Pass
		3	0	24.29	3.00	27.29	<=30	Pass
			2	24.26	3.00	27.26	<=30	Pass
			3	24.31	3.00	27.31	<=30	Pass
		6	0	23.19	3.00	26.19	<=30	Pass
	1754.3	1	0	23.99	3.00	26.99	<=30	Pass
			2	24.15	3.00	27.15	<=30	Pass
			5	24.05	3.00	27.05	<=30	Pass
		3	0	24.18	3.00	27.18	<=30	Pass
			2	24.19	3.00	27.19	<=30	Pass
			3	24.18	3.00	27.18	<=30	Pass
		6	0	23.14	3.00	26.14	<=30	Pass
16QAM	1710.7	1	0	23.30	3.00	26.30	<=30	Pass
			2	23.42	3.00	26.42	<=30	Pass
			5	23.33	3.00	26.33	<=30	Pass
		3	0	23.19	3.00	26.19	<=30	Pass
			2	23.24	3.00	26.24	<=30	Pass
			3	23.20	3.00	26.20	<=30	Pass
		6	0	22.24	3.00	25.24	<=30	Pass
	1732.5	1	0	23.19	3.00	26.19	<=30	Pass
			2	23.30	3.00	26.30	<=30	Pass
			5	23.26	3.00	26.26	<=30	Pass
		3	0	23.35	3.00	26.35	<=30	Pass
			2	23.27	3.00	26.27	<=30	Pass
			3	23.34	3.00	26.34	<=30	Pass
		6	0	22.15	3.00	25.15	<=30	Pass
	1754.3	1	0	23.03	3.00	26.03	<=30	Pass
			2	23.17	3.00	26.17	<=30	Pass
			5	23.09	3.00	26.09	<=30	Pass
		3	0	23.36	3.00	26.36	<=30	Pass
			2	23.38	3.00	26.38	<=30	Pass
			3	23.38	3.00	26.38	<=30	Pass
		6	0	22.18	3.00	25.18	<=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	24.20	3.00	27.20	<=30	Pass
			7	24.32	3.00	27.32	<=30	Pass
			14	24.12	3.00	27.12	<=30	Pass
		8	0	23.20	3.00	26.20	<=30	Pass
			4	23.24	3.00	26.24	<=30	Pass
			7	23.20	3.00	26.20	<=30	Pass
		15	0	23.21	3.00	26.21	<=30	Pass
	1732.5	1	0	24.23	3.00	27.23	<=30	Pass
			7	24.31	3.00	27.31	<=30	Pass
			14	24.15	3.00	27.15	<=30	Pass
		8	0	23.25	3.00	26.25	<=30	Pass
			4	23.27	3.00	26.27	<=30	Pass
			7	23.19	3.00	26.19	<=30	Pass
	15	0	23.22	3.00	26.22	<=30	Pass	
	1753.5	1	0	24.13	3.00	27.13	<=30	Pass
			7	24.29	3.00	27.29	<=30	Pass
			14	24.17	3.00	27.17	<=30	Pass
		8	0	23.15	3.00	26.15	<=30	Pass
			4	23.23	3.00	26.23	<=30	Pass
			7	23.16	3.00	26.16	<=30	Pass
		15	0	23.11	3.00	26.11	<=30	Pass
16QAM	1711.5	1	0	23.84	3.00	26.84	<=30	Pass
			7	23.94	3.00	26.94	<=30	Pass
			14	23.73	3.00	26.73	<=30	Pass
		8	0	22.41	3.00	25.41	<=30	Pass
			4	22.44	3.00	25.44	<=30	Pass
			7	22.40	3.00	25.40	<=30	Pass
		15	0	22.32	3.00	25.32	<=30	Pass
	1732.5	1	0	23.42	3.00	26.42	<=30	Pass
			7	23.52	3.00	26.52	<=30	Pass
			14	23.39	3.00	26.39	<=30	Pass
		8	0	22.25	3.00	25.25	<=30	Pass
			4	22.30	3.00	25.30	<=30	Pass
			7	22.21	3.00	25.21	<=30	Pass
	15	0	22.25	3.00	25.25	<=30	Pass	
	1753.5	1	0	23.17	3.00	26.17	<=30	Pass
			7	23.32	3.00	26.32	<=30	Pass
			14	23.19	3.00	26.19	<=30	Pass
		8	0	22.26	3.00	25.26	<=30	Pass
4			22.30	3.00	25.30	<=30	Pass	
7			22.23	3.00	25.23	<=30	Pass	
15		0	22.20	3.00	25.20	<=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	24.14	3.00	27.14	<=30	Pass
			13	24.27	3.00	27.27	<=30	Pass
			24	24.14	3.00	27.14	<=30	Pass
		12	0	23.12	3.00	26.12	<=30	Pass
			6	23.23	3.00	26.23	<=30	Pass
			13	23.15	3.00	26.15	<=30	Pass
		25	0	23.19	3.00	26.19	<=30	Pass
	1732.5	1	0	24.17	3.00	27.17	<=30	Pass
			13	24.25	3.00	27.25	<=30	Pass
			24	24.08	3.00	27.08	<=30	Pass
		12	0	23.21	3.00	26.21	<=30	Pass
			6	23.25	3.00	26.25	<=30	Pass
			13	23.14	3.00	26.14	<=30	Pass
		25	0	23.20	3.00	26.20	<=30	Pass
	1752.5	1	0	24.05	3.00	27.05	<=30	Pass
			13	24.16	3.00	27.16	<=30	Pass
			24	24.07	3.00	27.07	<=30	Pass
		12	0	23.08	3.00	26.08	<=30	Pass
			6	23.16	3.00	26.16	<=30	Pass
			13	23.12	3.00	26.12	<=30	Pass
		25	0	23.13	3.00	26.13	<=30	Pass
16QAM	1712.5	1	0	23.00	3.00	26.00	<=30	Pass
			13	23.08	3.00	26.08	<=30	Pass
			24	22.97	3.00	25.97	<=30	Pass
		12	0	22.20	3.00	25.20	<=30	Pass
			6	22.22	3.00	25.22	<=30	Pass
			13	22.18	3.00	25.18	<=30	Pass
		25	0	22.23	3.00	25.23	<=30	Pass
	1732.5	1	0	23.40	3.00	26.40	<=30	Pass
			13	23.54	3.00	26.54	<=30	Pass
			24	23.34	3.00	26.34	<=30	Pass
		12	0	22.27	3.00	25.27	<=30	Pass
			6	22.35	3.00	25.35	<=30	Pass
			13	22.27	3.00	25.27	<=30	Pass
		25	0	22.24	3.00	25.24	<=30	Pass
	1752.5	1	0	23.12	3.00	26.12	<=30	Pass
			13	23.28	3.00	26.28	<=30	Pass
			24	23.18	3.00	26.18	<=30	Pass
		12	0	22.08	3.00	25.08	<=30	Pass
			6	22.18	3.00	25.18	<=30	Pass
			13	22.14	3.00	25.14	<=30	Pass
		25	0	22.16	3.00	25.16	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.4 B4_10MHz_EIRP

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	24.17	3.00	27.17	<=30	Pass
			25	24.35	3.00	27.35	<=30	Pass
			49	24.16	3.00	27.16	<=30	Pass
		25	0	23.23	3.00	26.23	<=30	Pass
			13	23.20	3.00	26.20	<=30	Pass
			25	23.27	3.00	26.27	<=30	Pass
		50	0	23.21	3.00	26.21	<=30	Pass
	1732.5	1	0	24.27	3.00	27.27	<=30	Pass
			25	24.36	3.00	27.36	<=30	Pass
			49	24.07	3.00	27.07	<=30	Pass
		25	0	23.31	3.00	26.31	<=30	Pass
			13	23.28	3.00	26.28	<=30	Pass
			25	23.25	3.00	26.25	<=30	Pass
		50	0	23.26	3.00	26.26	<=30	Pass
	1750	1	0	24.04	3.00	27.04	<=30	Pass
			25	24.19	3.00	27.19	<=30	Pass
			49	24.09	3.00	27.09	<=30	Pass
		25	0	23.19	3.00	26.19	<=30	Pass
			13	23.09	3.00	26.09	<=30	Pass
			25	23.06	3.00	26.06	<=30	Pass
		50	0	23.13	3.00	26.13	<=30	Pass
16QAM	1715	1	0	23.76	3.00	26.76	<=30	Pass
			25	23.95	3.00	26.95	<=30	Pass
			49	23.81	3.00	26.81	<=30	Pass
		25	0	22.31	3.00	25.31	<=30	Pass
			13	22.31	3.00	25.31	<=30	Pass
			25	22.34	3.00	25.34	<=30	Pass
		50	0	22.25	3.00	25.25	<=30	Pass
	1732.5	1	0	23.45	3.00	26.45	<=30	Pass
			25	23.58	3.00	26.58	<=30	Pass
			49	23.27	3.00	26.27	<=30	Pass
		25	0	22.33	3.00	25.33	<=30	Pass
			13	22.33	3.00	25.33	<=30	Pass
			25	22.29	3.00	25.29	<=30	Pass
		50	0	22.31	3.00	25.31	<=30	Pass
	1750	1	0	23.06	3.00	26.06	<=30	Pass
			25	23.24	3.00	26.24	<=30	Pass
			49	23.08	3.00	26.08	<=30	Pass
		25	0	22.25	3.00	25.25	<=30	Pass
			13	22.24	3.00	25.24	<=30	Pass
			25	22.20	3.00	25.20	<=30	Pass
		50	0	22.21	3.00	25.21	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.5 B4_15MHz_EIRP

1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	24.16	3.00	27.16	<=30	Pass
			38	24.23	3.00	27.23	<=30	Pass
			74	24.12	3.00	27.12	<=30	Pass
		36	0	23.22	3.00	26.22	<=30	Pass
			18	23.33	3.00	26.33	<=30	Pass
			39	23.34	3.00	26.34	<=30	Pass
		75	0	23.32	3.00	26.32	<=30	Pass
	1732.5	1	0	24.21	3.00	27.21	<=30	Pass
			38	24.30	3.00	27.30	<=30	Pass
			74	24.05	3.00	27.05	<=30	Pass
		36	0	23.29	3.00	26.29	<=30	Pass
			18	23.31	3.00	26.31	<=30	Pass
			39	23.25	3.00	26.25	<=30	Pass
	75	0	23.26	3.00	26.26	<=30	Pass	
	1747.5	1	0	24.09	3.00	27.09	<=30	Pass
			38	24.06	3.00	27.06	<=30	Pass
			74	23.97	3.00	26.97	<=30	Pass
		36	0	23.21	3.00	26.21	<=30	Pass
			18	23.10	3.00	26.10	<=30	Pass
			39	23.05	3.00	26.05	<=30	Pass
		75	0	23.14	3.00	26.14	<=30	Pass
16QAM	1717.5	1	0	23.74	3.00	26.74	<=30	Pass
			38	23.87	3.00	26.87	<=30	Pass
			74	23.78	3.00	26.78	<=30	Pass
		36	0	22.26	3.00	25.26	<=30	Pass
			18	22.32	3.00	25.32	<=30	Pass
			39	22.38	3.00	25.38	<=30	Pass
		75	0	22.33	3.00	25.33	<=30	Pass
	1732.5	1	0	23.41	3.00	26.41	<=30	Pass
			38	23.43	3.00	26.43	<=30	Pass
			74	23.23	3.00	26.23	<=30	Pass
		36	0	22.32	3.00	25.32	<=30	Pass
			18	22.32	3.00	25.32	<=30	Pass
			39	22.26	3.00	25.26	<=30	Pass
	75	0	22.30	3.00	25.30	<=30	Pass	
	1747.5	1	0	23.45	3.00	26.45	<=30	Pass
			38	23.49	3.00	26.49	<=30	Pass
			74	23.45	3.00	26.45	<=30	Pass
		36	0	22.09	3.00	25.09	<=30	Pass
			18	22.13	3.00	25.13	<=30	Pass
			39	22.04	3.00	25.04	<=30	Pass
		75	0	22.15	3.00	25.15	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	24.08	3.00	27.08	<=30	Pass
			50	24.39	3.00	27.39	<=30	Pass
			99	24.18	3.00	27.18	<=30	Pass
		50	0	23.18	3.00	26.18	<=30	Pass
			25	23.22	3.00	26.22	<=30	Pass
			50	23.34	3.00	26.34	<=30	Pass
		100	0	23.24	3.00	26.24	<=30	Pass
	1732.5	1	0	24.13	3.00	27.13	<=30	Pass
			50	24.42	3.00	27.42	<=30	Pass
			99	23.96	3.00	26.96	<=30	Pass
		50	0	23.24	3.00	26.24	<=30	Pass
			25	23.29	3.00	26.29	<=30	Pass
			50	23.10	3.00	26.10	<=30	Pass
		100	0	23.24	3.00	26.24	<=30	Pass
	1745	1	0	24.05	3.00	27.05	<=30	Pass
			50	24.21	3.00	27.21	<=30	Pass
			99	23.93	3.00	26.93	<=30	Pass
		50	0	23.18	3.00	26.18	<=30	Pass
			25	23.09	3.00	26.09	<=30	Pass
			50	22.96	3.00	25.96	<=30	Pass
		100	0	23.06	3.00	26.06	<=30	Pass
16QAM	1720	1	0	23.37	3.00	26.37	<=30	Pass
			50	23.69	3.00	26.69	<=30	Pass
			99	23.43	3.00	26.43	<=30	Pass
		50	0	22.23	3.00	25.23	<=30	Pass
			25	22.31	3.00	25.31	<=30	Pass
			50	22.34	3.00	25.34	<=30	Pass
		100	0	22.26	3.00	25.26	<=30	Pass
	1732.5	1	0	23.40	3.00	26.40	<=30	Pass
			50	23.65	3.00	26.65	<=30	Pass
			99	23.15	3.00	26.15	<=30	Pass
		50	0	22.28	3.00	25.28	<=30	Pass
			25	22.27	3.00	25.27	<=30	Pass
			50	22.17	3.00	25.17	<=30	Pass
		100	0	22.22	3.00	25.22	<=30	Pass
	1745	1	0	23.66	3.00	26.66	<=30	Pass
			50	23.81	3.00	26.81	<=30	Pass
			99	23.54	3.00	26.54	<=30	Pass
		50	0	22.13	3.00	25.13	<=30	Pass
			25	22.12	3.00	25.12	<=30	Pass
			50	22.00	3.00	25.00	<=30	Pass
		100	0	22.01	3.00	25.01	<=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	10.2	-6.224	-0.0036	-2.5 to 2.5	Pass
					12	-3.789	-0.0022	-2.5 to 2.5	Pass
					13.8	-7.299	-0.0042	-2.5 to 2.5	Pass
				-30	12	-3.087	-0.0018	-2.5 to 2.5	Pass
				-20	12	-4.363	-0.0025	-2.5 to 2.5	Pass
				-10	12	-5.940	-0.0035	-2.5 to 2.5	Pass
				0	12	-6.716	-0.0039	-2.5 to 2.5	Pass
				10	12	-4.938	-0.0029	-2.5 to 2.5	Pass
				30	12	-5.070	-0.0029	-2.5 to 2.5	Pass
				40	12	-4.915	-0.0029	-2.5 to 2.5	Pass
				50	12	-5.363	-0.0031	-2.5 to 2.5	Pass
	1732.5	100	0	20	10.2	-3.476	-0.0020	-2.5 to 2.5	Pass
					12	-5.797	-0.0033	-2.5 to 2.5	Pass
					13.8	-3.100	-0.0018	-2.5 to 2.5	Pass
				-30	12	-6.245	-0.0036	-2.5 to 2.5	Pass
				-20	12	-4.053	-0.0023	-2.5 to 2.5	Pass
				-10	12	-6.828	-0.0039	-2.5 to 2.5	Pass
				0	12	-8.061	-0.0047	-2.5 to 2.5	Pass
				10	12	-3.368	-0.0019	-2.5 to 2.5	Pass
				30	12	-7.807	-0.0045	-2.5 to 2.5	Pass
				40	12	-7.981	-0.0046	-2.5 to 2.5	Pass
				50	12	-10.097	-0.0058	-2.5 to 2.5	Pass
	1745	100	0	20	10.2	-1.590	-0.0009	-2.5 to 2.5	Pass
					12	-2.611	-0.0015	-2.5 to 2.5	Pass
					13.8	-4.023	-0.0023	-2.5 to 2.5	Pass
				-30	12	-4.636	-0.0027	-2.5 to 2.5	Pass
				-20	12	-6.397	-0.0037	-2.5 to 2.5	Pass
				-10	12	-6.954	-0.0040	-2.5 to 2.5	Pass
				0	12	-3.218	-0.0018	-2.5 to 2.5	Pass
				10	12	-6.390	-0.0037	-2.5 to 2.5	Pass
				30	12	-6.731	-0.0039	-2.5 to 2.5	Pass
				40	12	-5.613	-0.0032	-2.5 to 2.5	Pass
				50	12	-4.218	-0.0024	-2.5 to 2.5	Pass

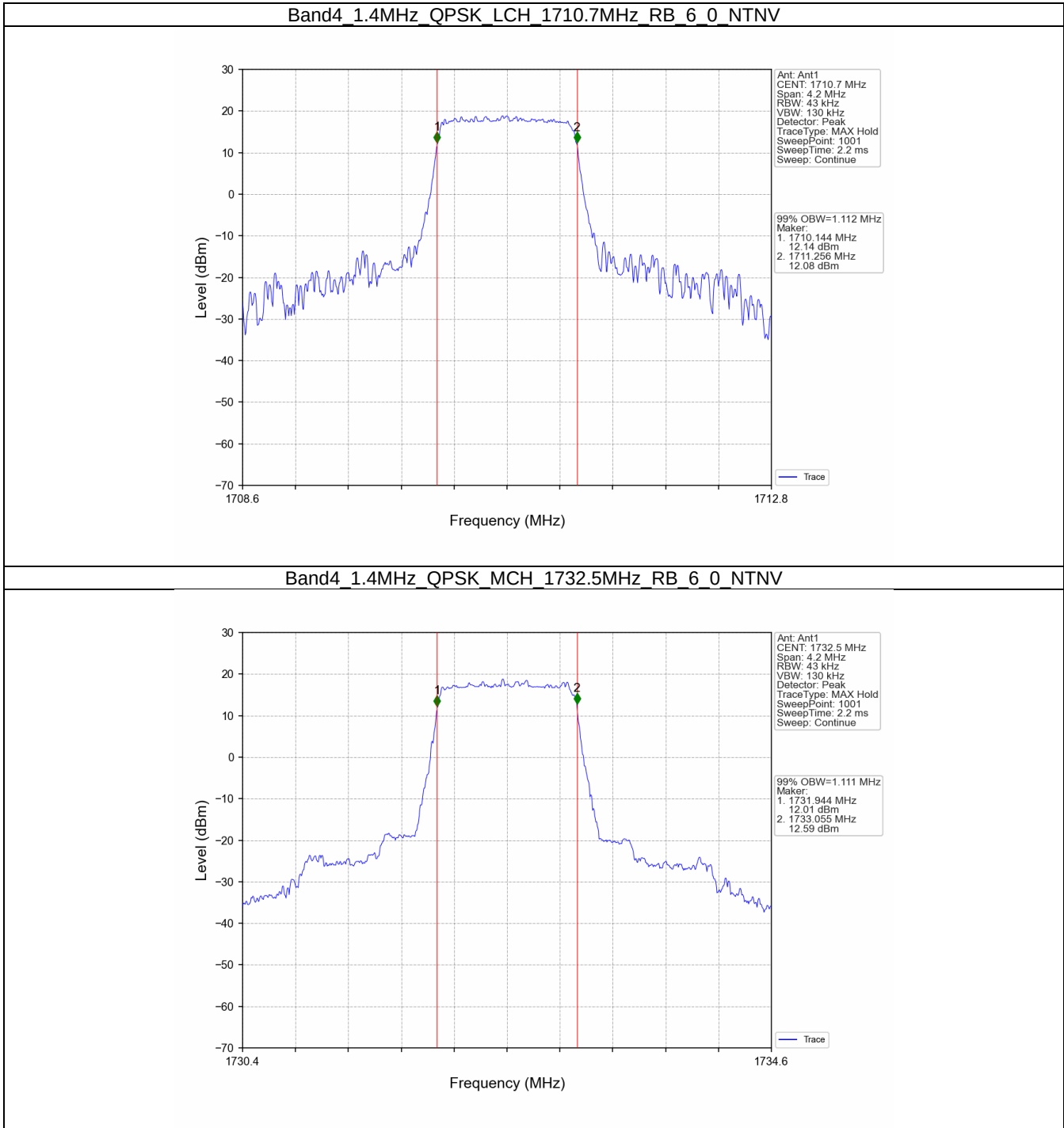
3. 99% & 26dB Bandwidth

3.1 Band4_OBW

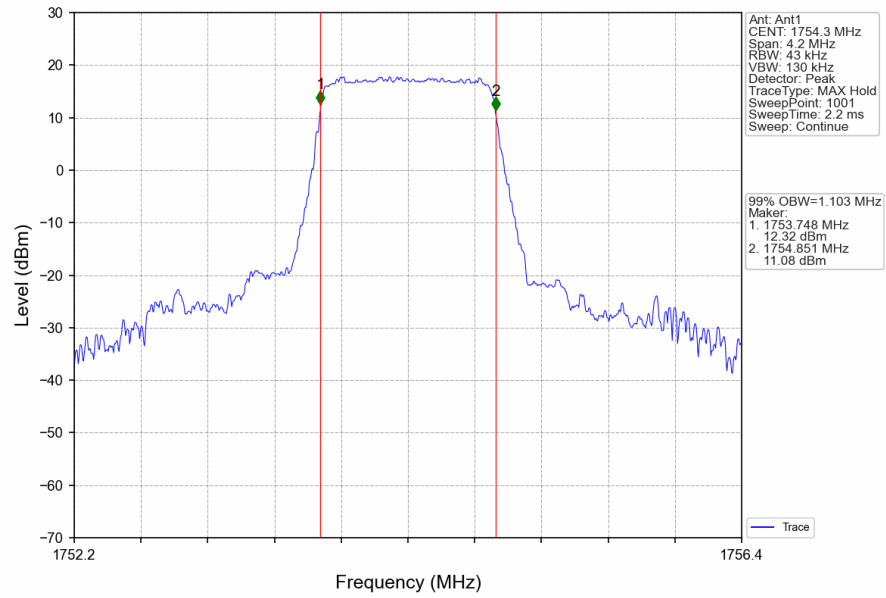
3.1.1 Test Result

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.112	/	Pass
		1732.5	6	0	1.111	/	Pass
		1754.3	6	0	1.103	/	Pass
	16QAM	1710.7	6	0	1.099	/	Pass
		1732.5	6	0	1.103	/	Pass
		1754.3	6	0	1.110	/	Pass
3	QPSK	1711.5	15	0	2.719	/	Pass
		1732.5	15	0	2.719	/	Pass
		1753.5	15	0	2.732	/	Pass
	16QAM	1711.5	15	0	2.719	/	Pass
		1732.5	15	0	2.714	/	Pass
		1753.5	15	0	2.725	/	Pass
5	QPSK	1712.5	25	0	4.550	/	Pass
		1732.5	25	0	4.543	/	Pass
		1752.5	25	0	4.538	/	Pass
	16QAM	1712.5	25	0	4.534	/	Pass
		1732.5	25	0	4.550	/	Pass
		1752.5	25	0	4.537	/	Pass
10	QPSK	1715	50	0	9.047	/	Pass
		1732.5	50	0	9.073	/	Pass
		1750	50	0	9.077	/	Pass
	16QAM	1715	50	0	9.063	/	Pass
		1732.5	50	0	9.050	/	Pass
		1750	50	0	9.056	/	Pass
15	QPSK	1717.5	75	0	13.612	/	Pass
		1732.5	75	0	13.547	/	Pass
		1747.5	75	0	13.626	/	Pass
	16QAM	1717.5	75	0	13.562	/	Pass
		1732.5	75	0	13.567	/	Pass
		1747.5	75	0	13.576	/	Pass
20	QPSK	1720	100	0	18.108	/	Pass
		1732.5	100	0	18.086	/	Pass
		1745	100	0	18.179	/	Pass
	16QAM	1720	100	0	18.130	/	Pass
		1732.5	100	0	18.060	/	Pass
		1745	100	0	18.100	/	Pass

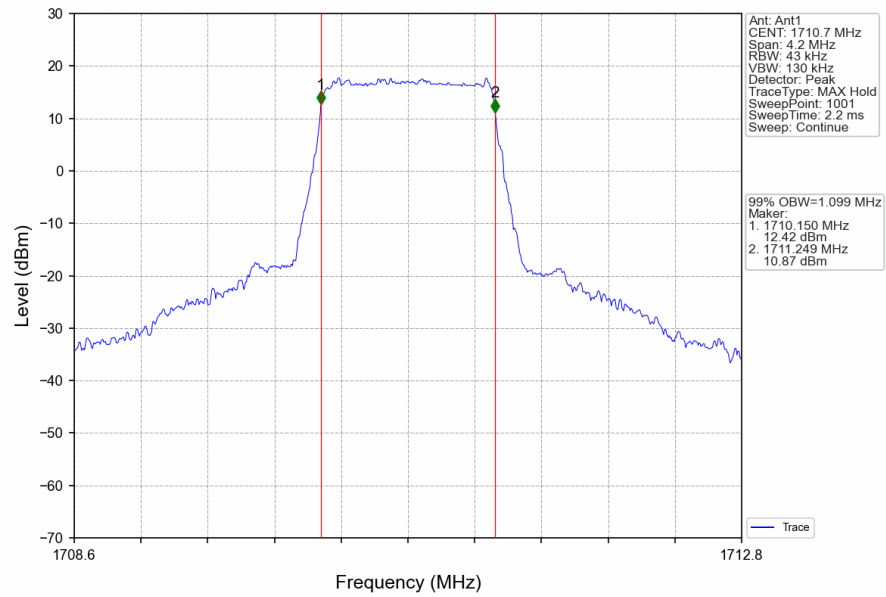
3.1.2 Test Graph



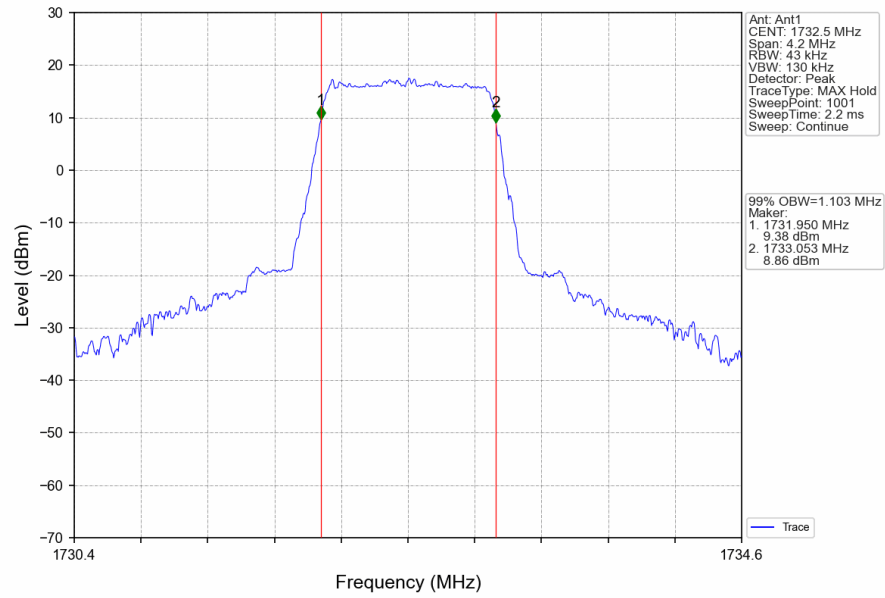
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



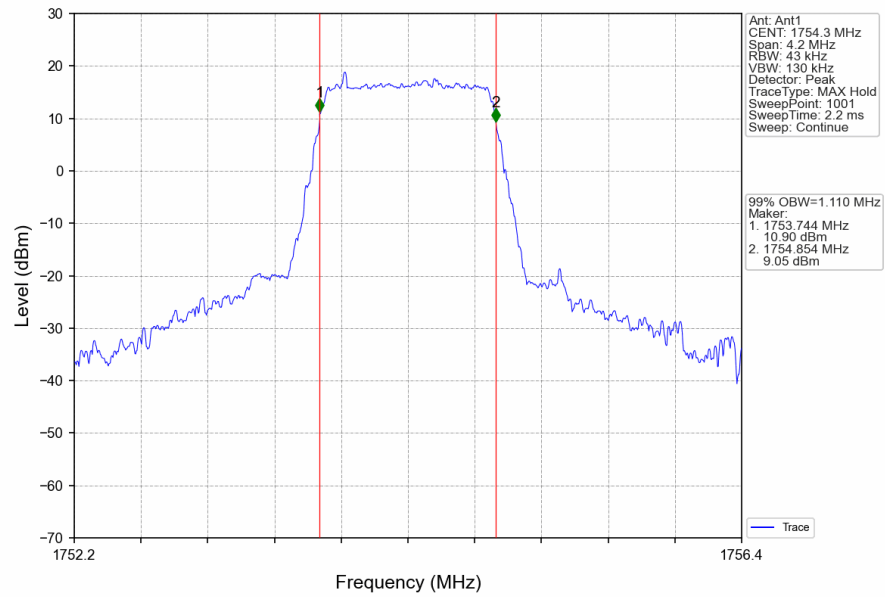
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



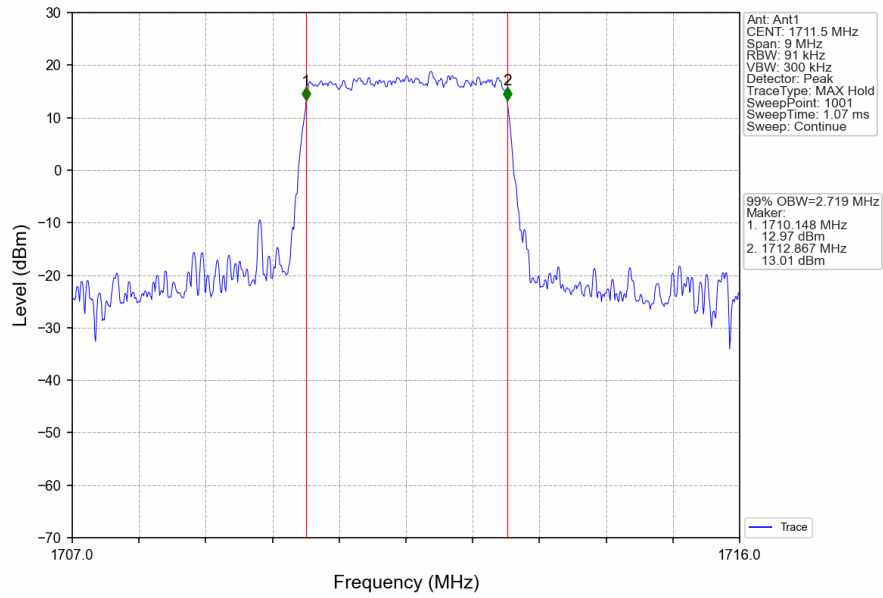
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTN



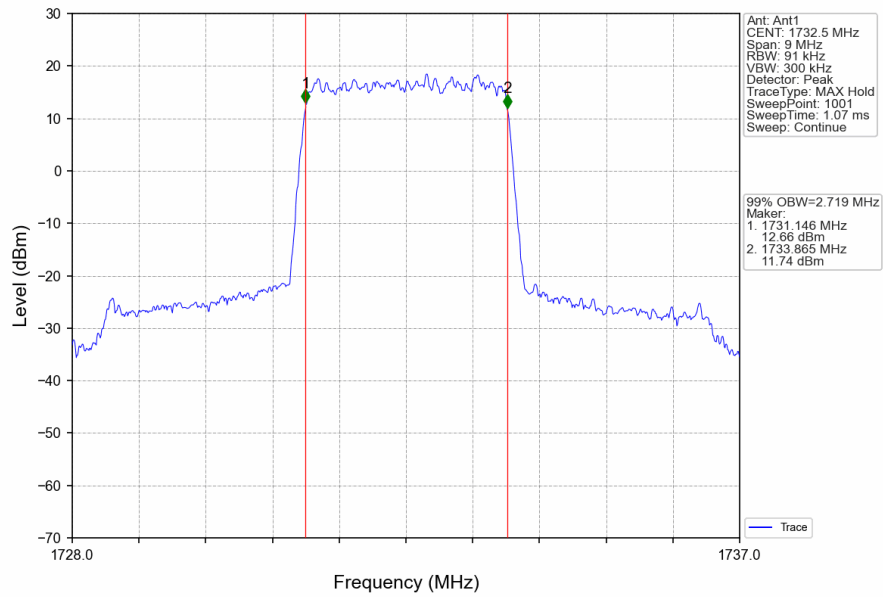
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTN



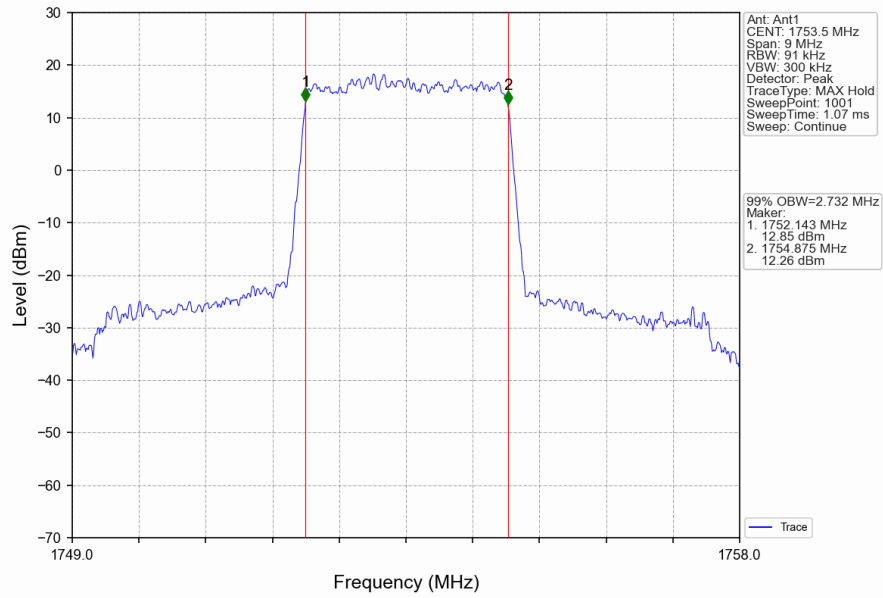
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



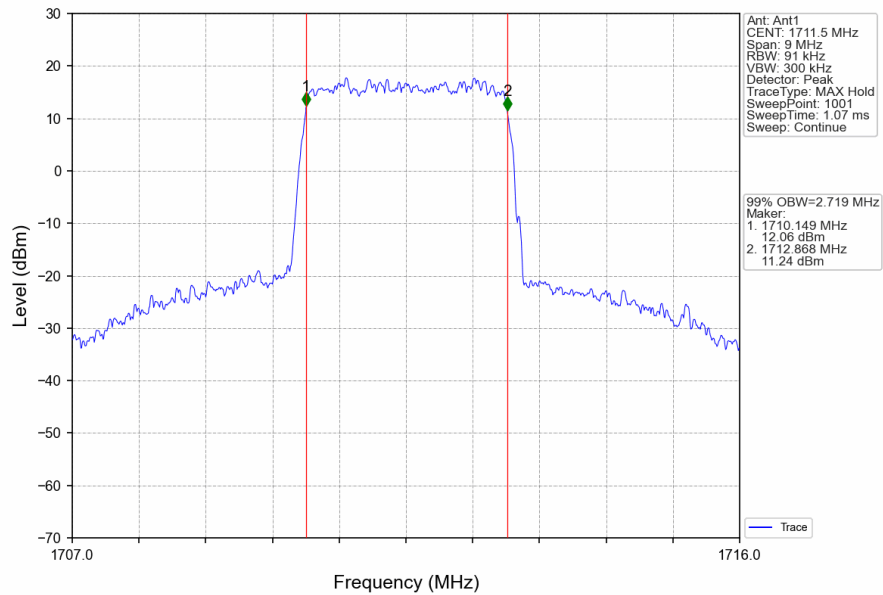
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



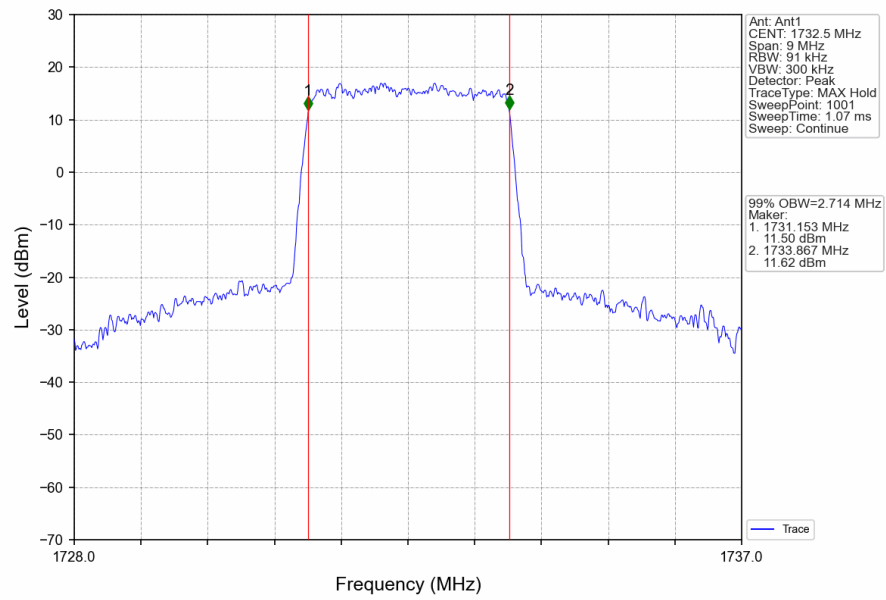
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



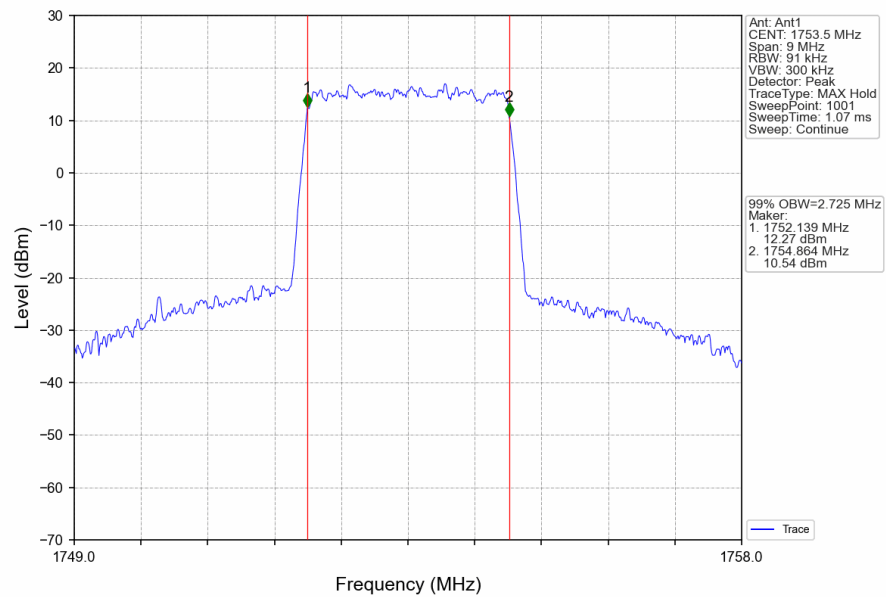
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



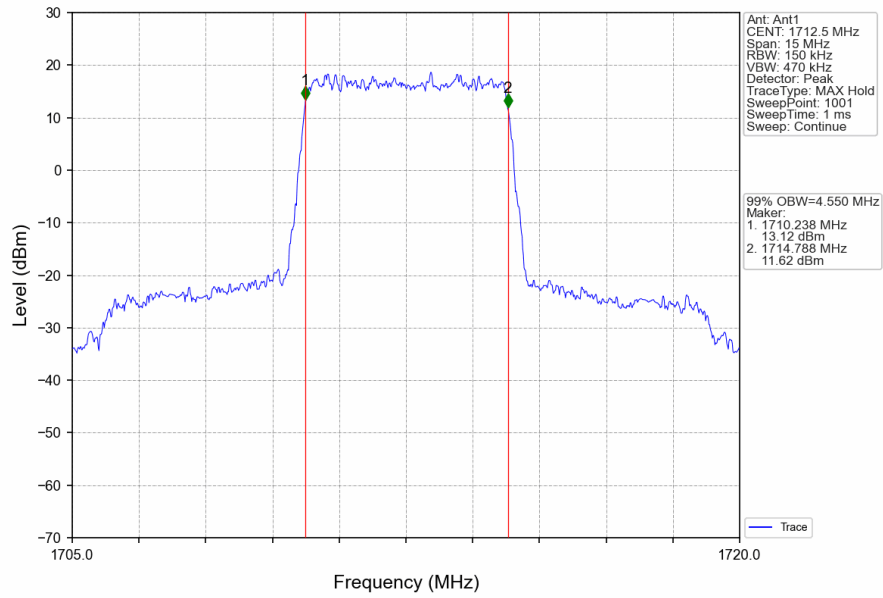
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



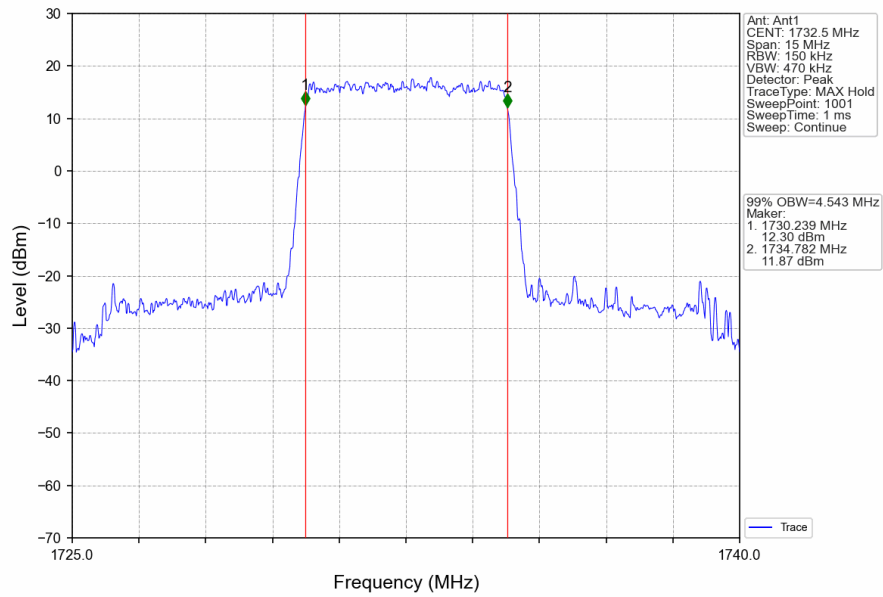
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



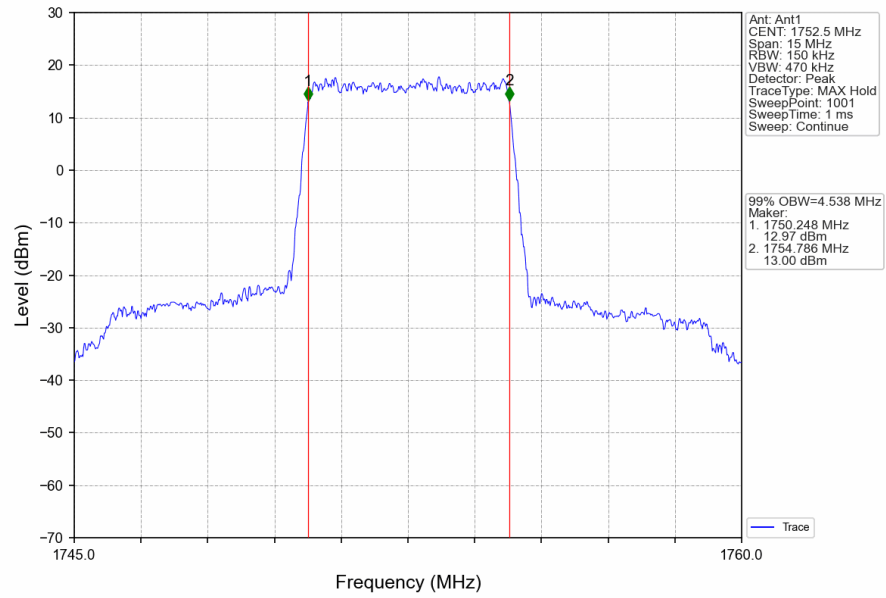
Band4 5MHz QPSK LCH 1712.5MHz RB 25_0 NTN



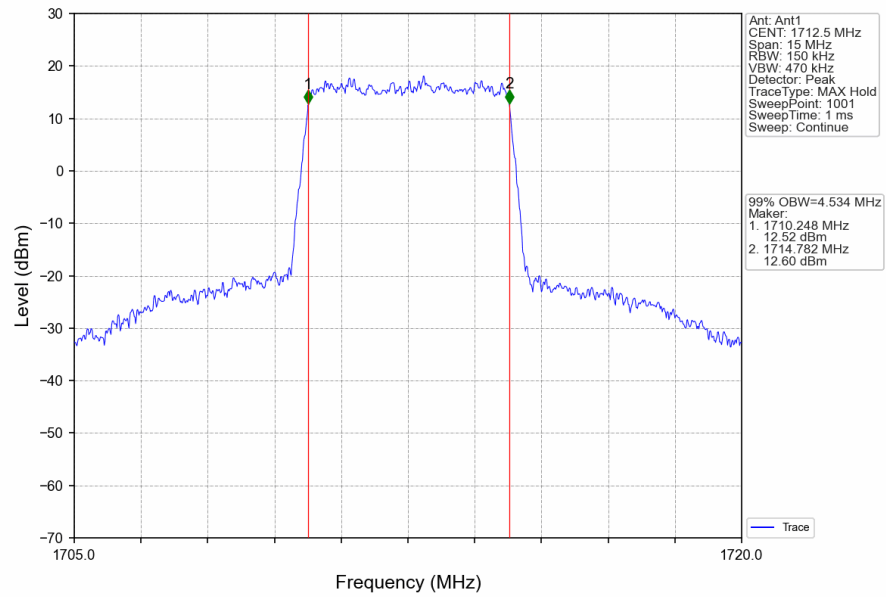
Band4 5MHz QPSK MCH 1732.5MHz RB 25_0 NTN



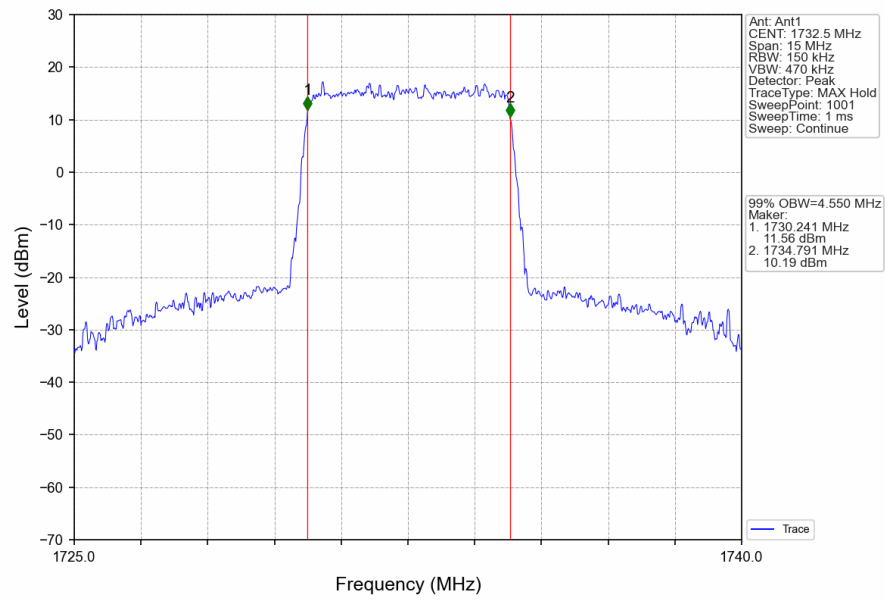
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



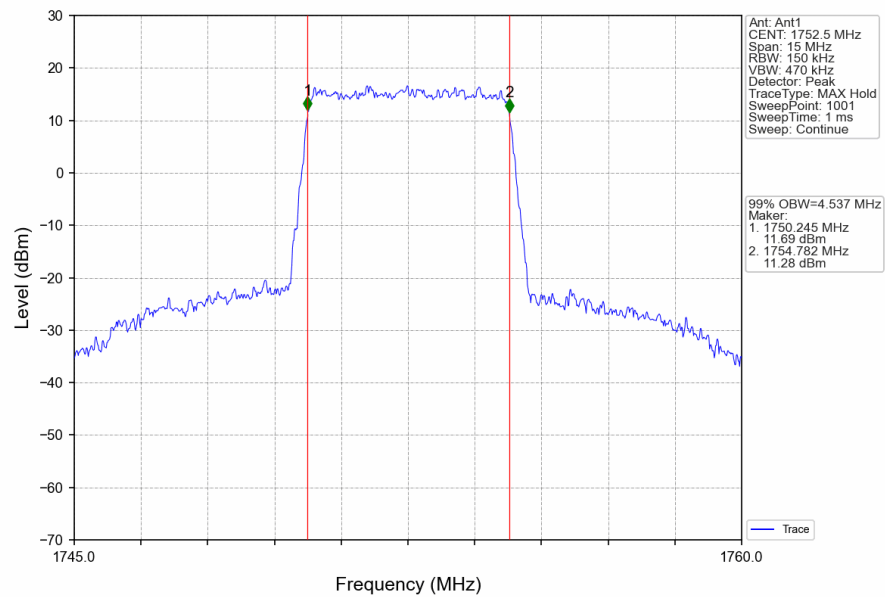
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



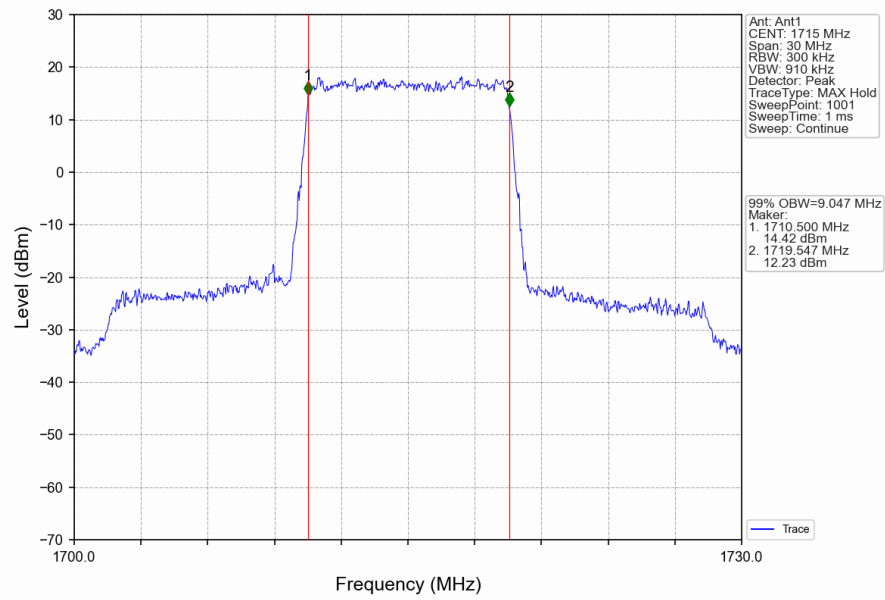
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



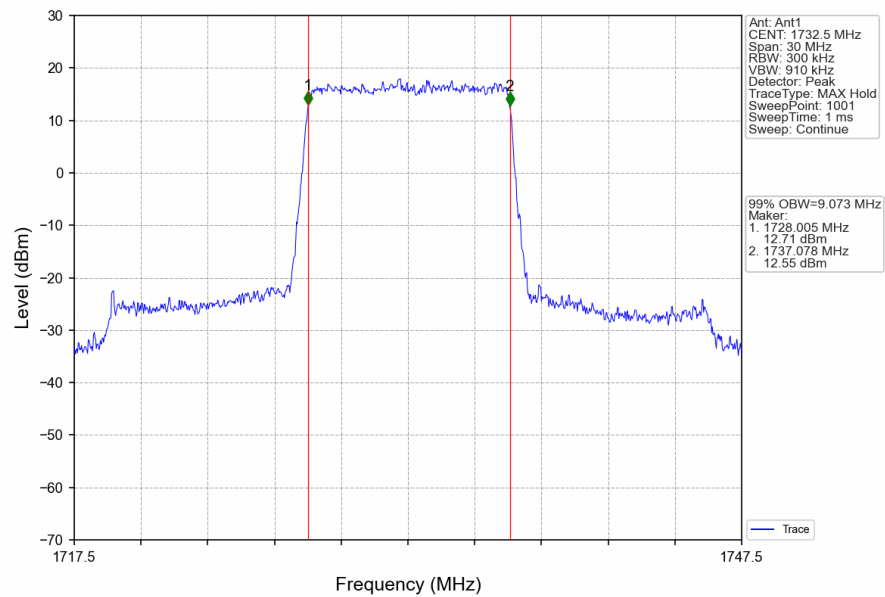
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



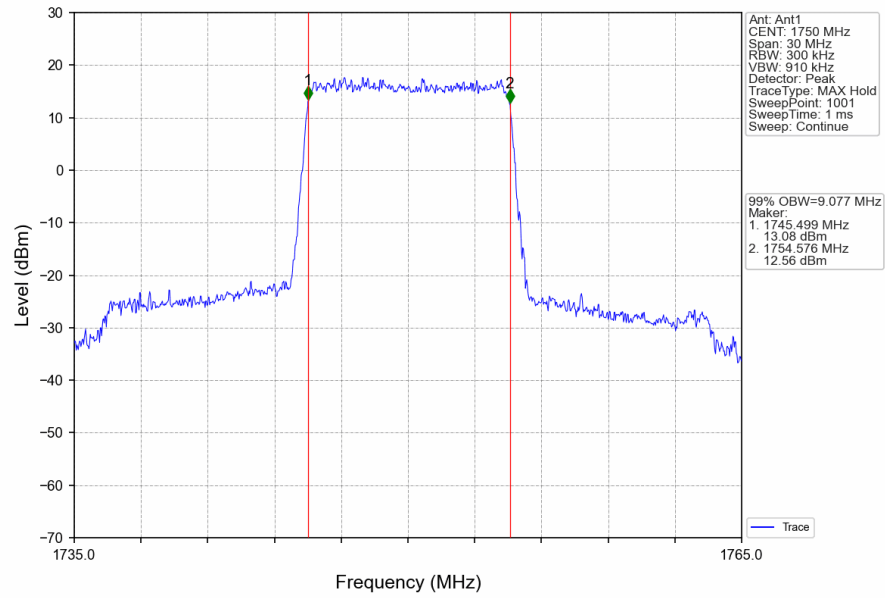
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTN



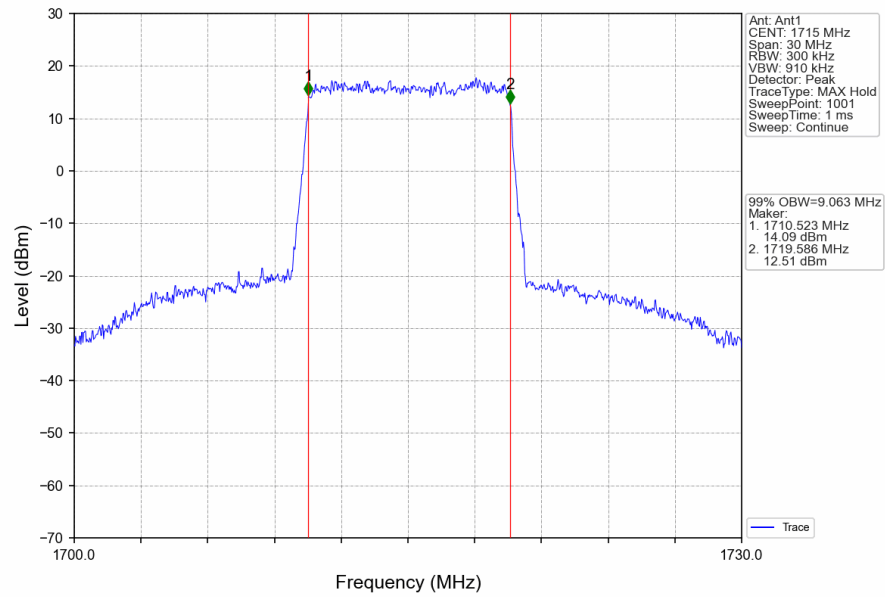
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTN



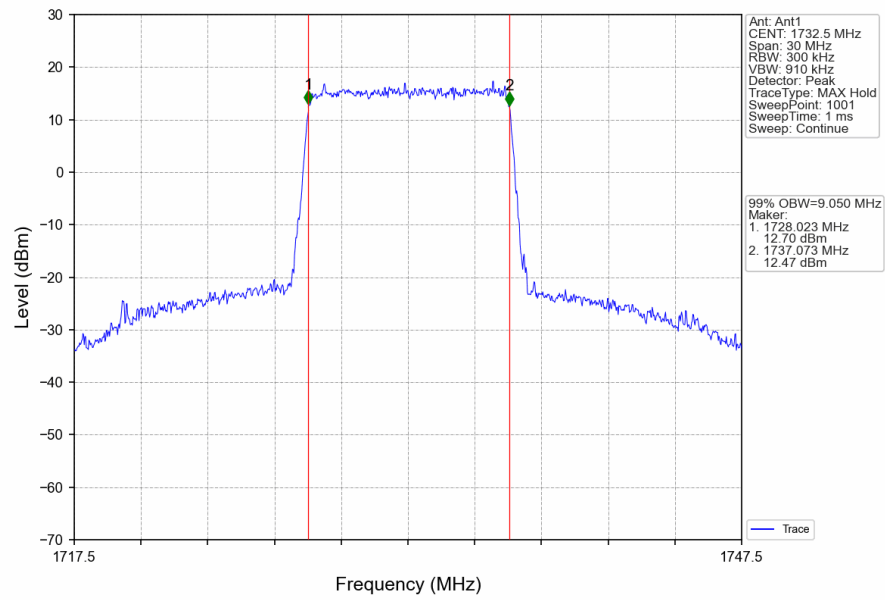
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



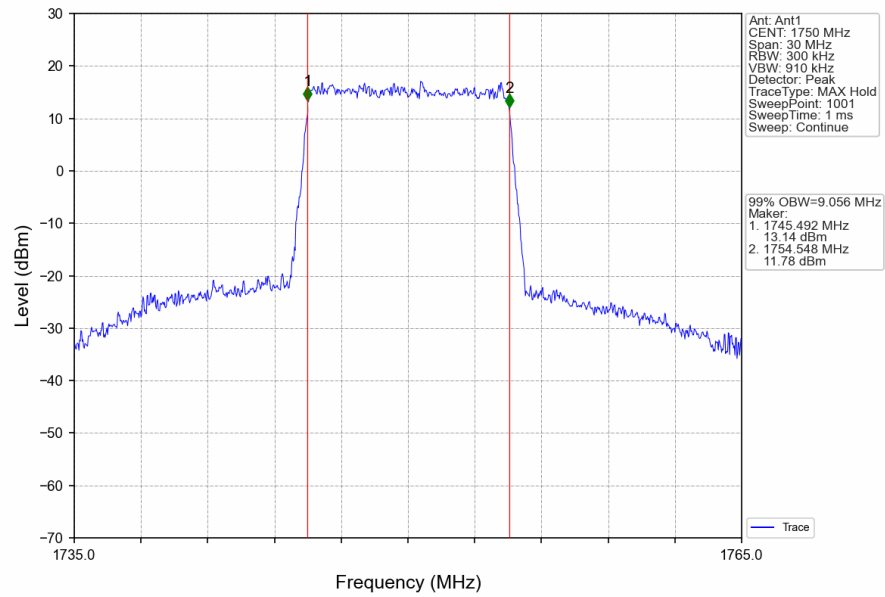
Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTN



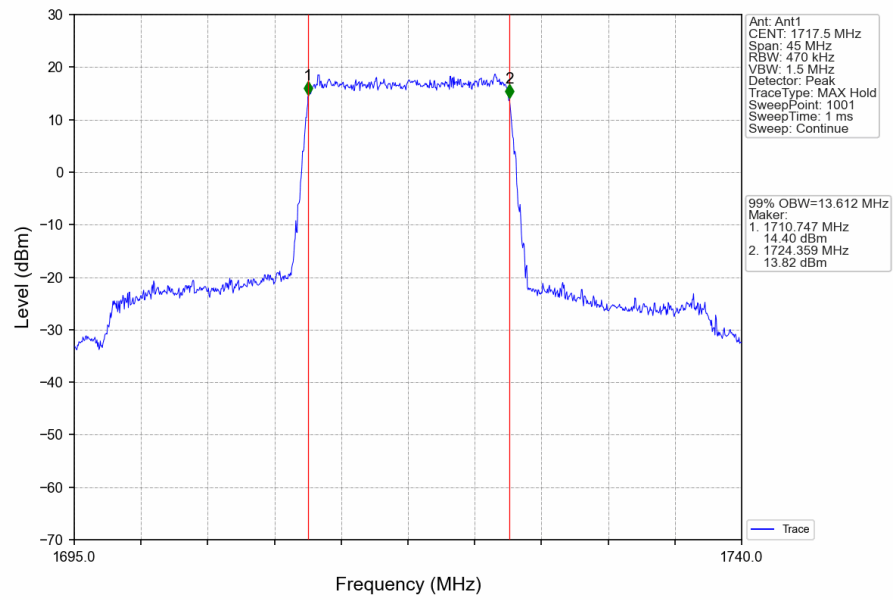
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



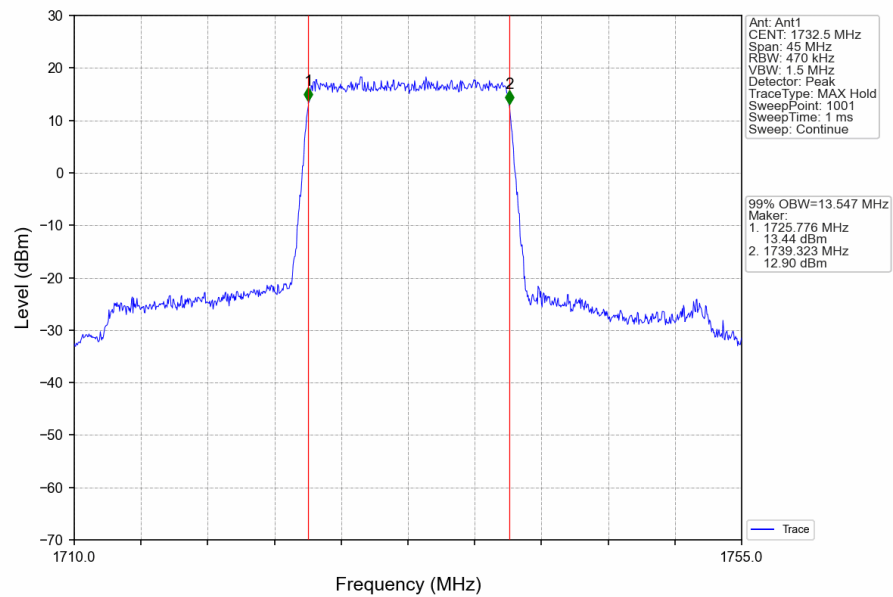
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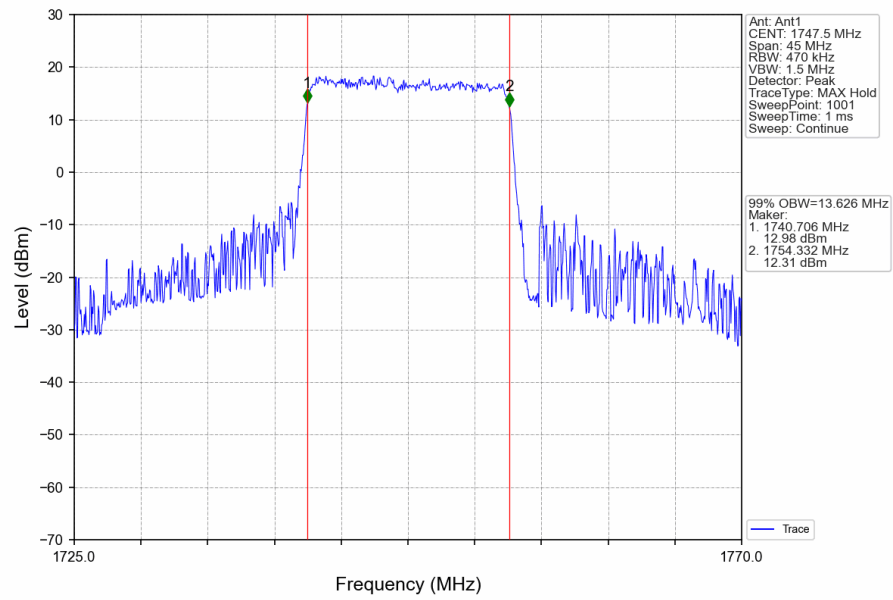
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



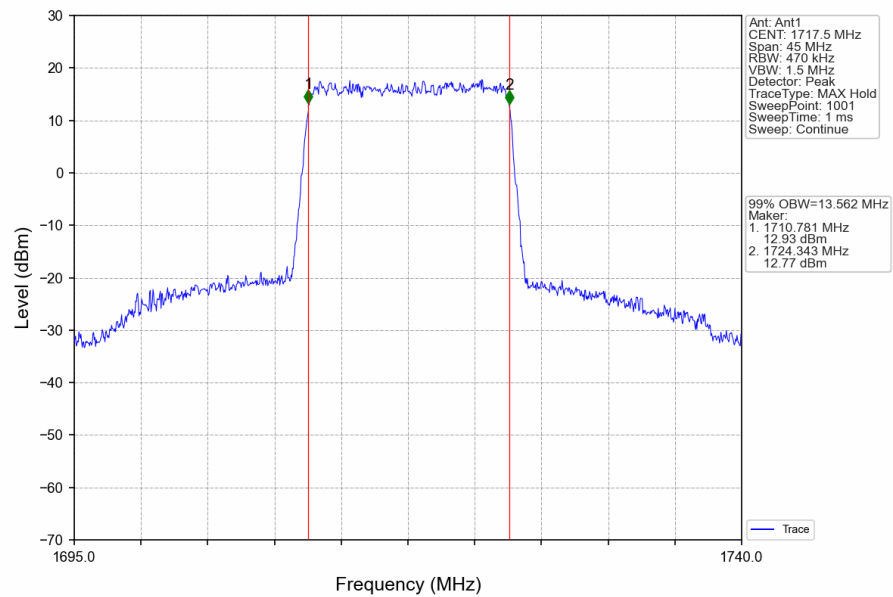
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



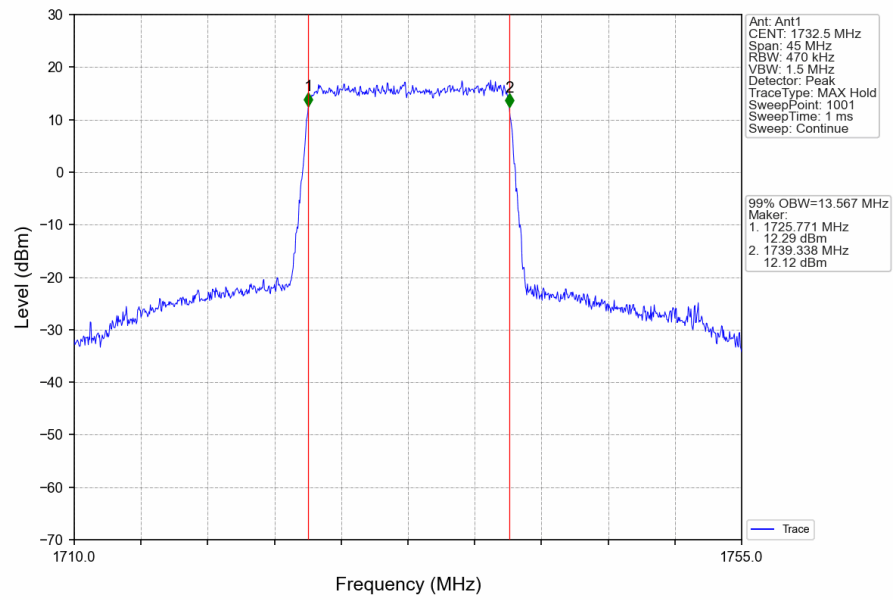
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



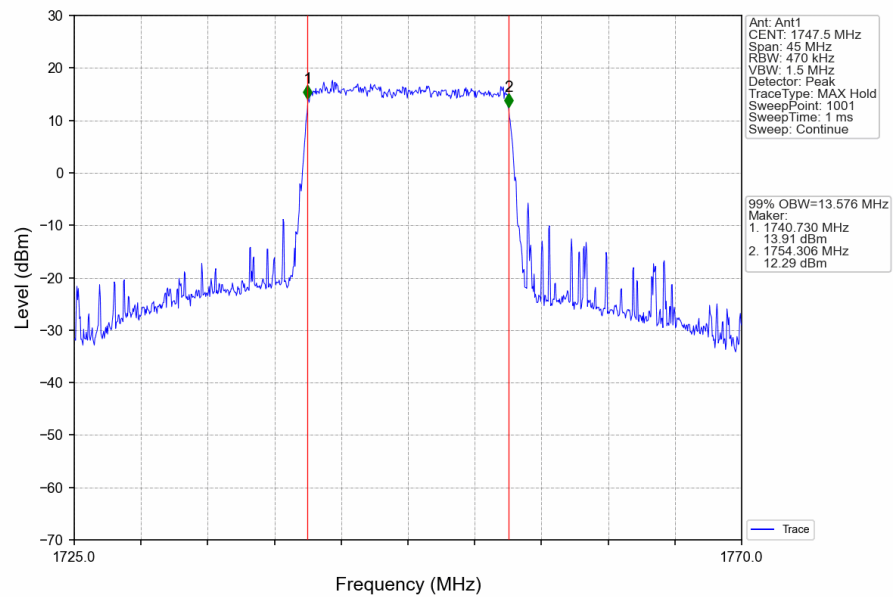
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



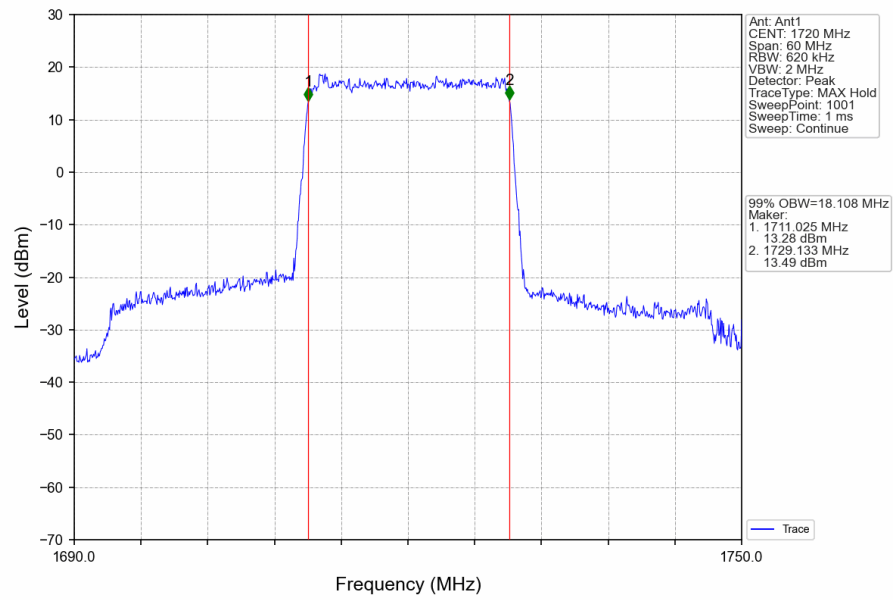
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



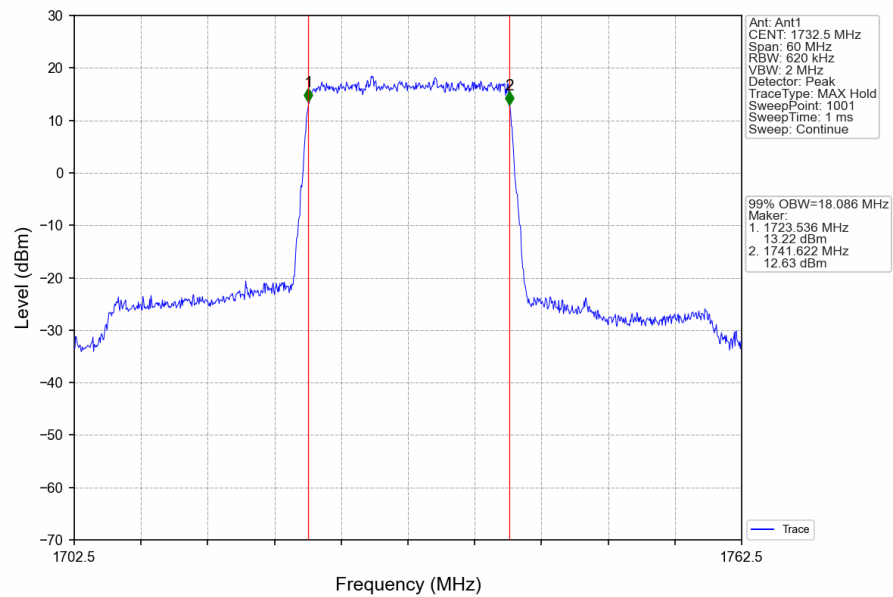
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



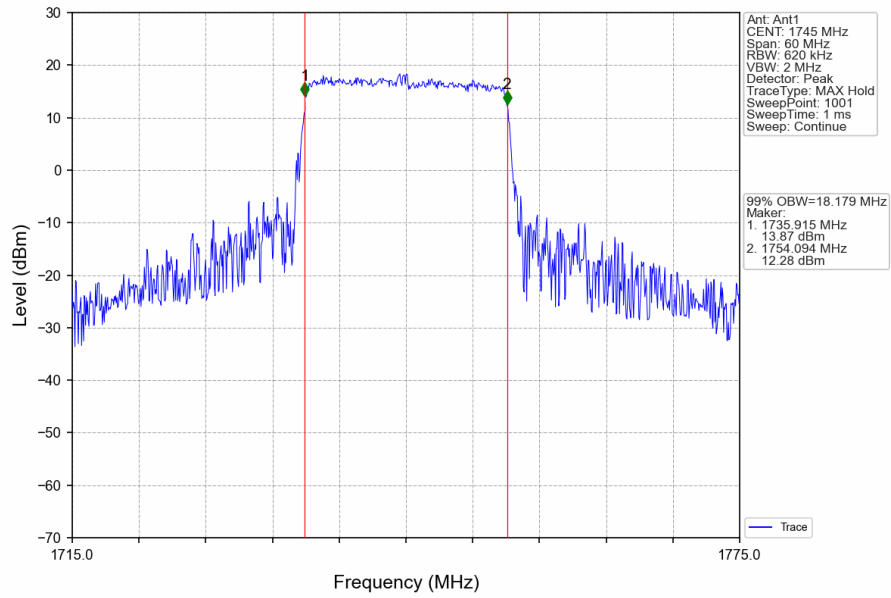
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



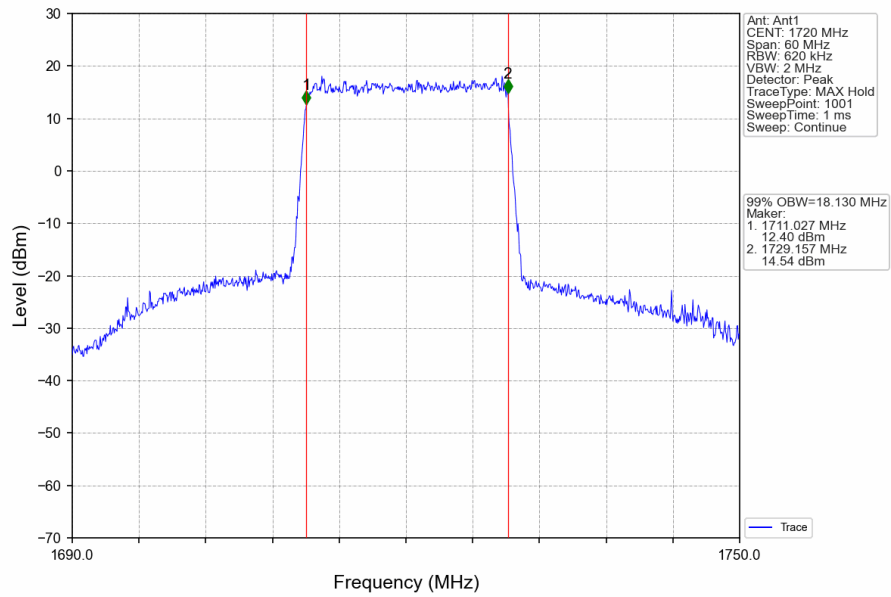
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



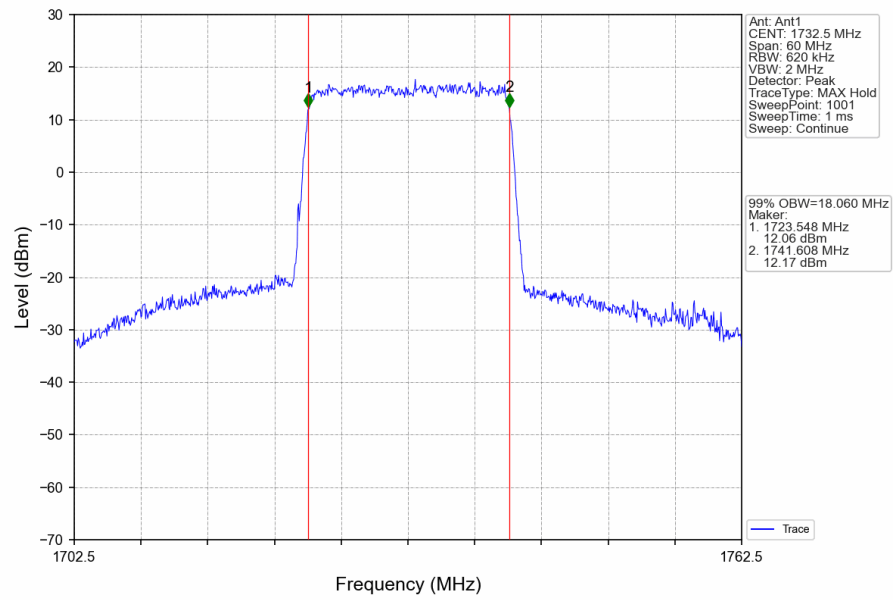
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



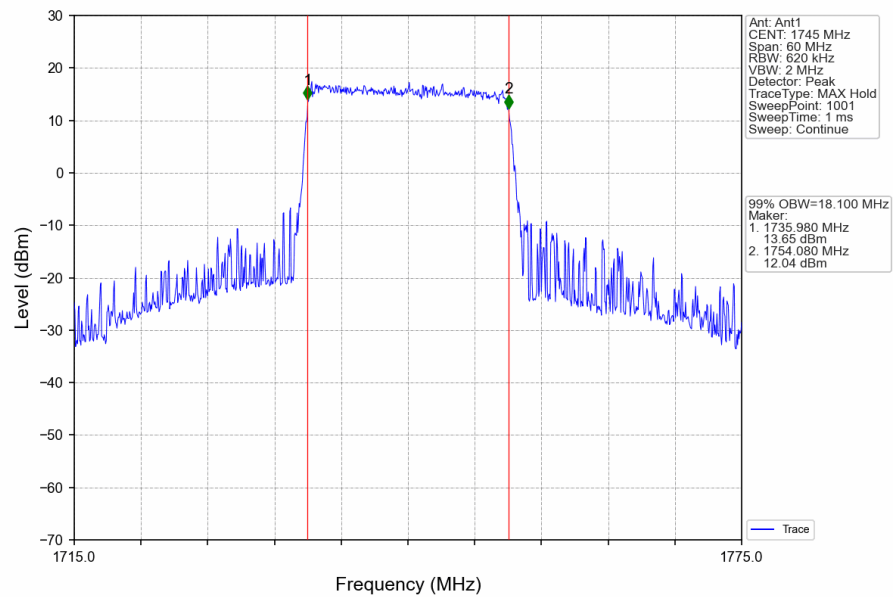
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

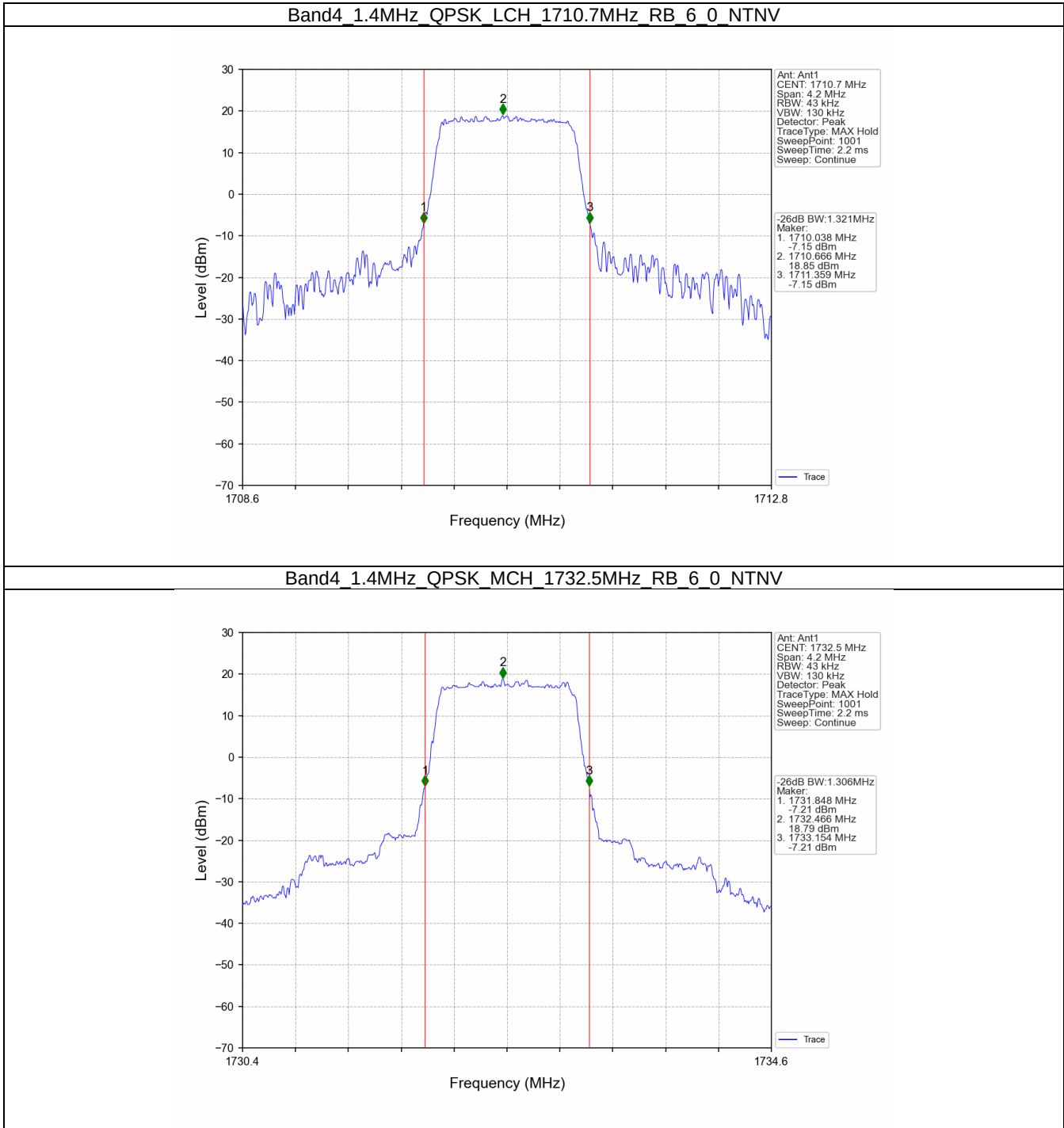


3.2 Band4_XDB

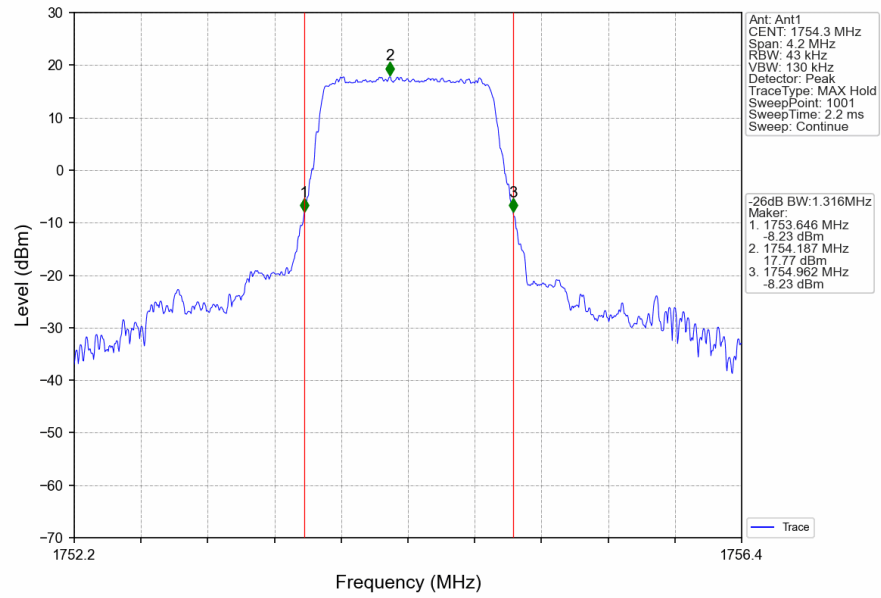
3.2.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.321	/	Pass
		1732.5	6	0	1.306	/	Pass
		1754.3	6	0	1.316	/	Pass
	16QAM	1710.7	6	0	1.312	/	Pass
		1732.5	6	0	1.324	/	Pass
		1754.3	6	0	1.317	/	Pass
3	QPSK	1711.5	15	0	3.009	/	Pass
		1732.5	15	0	2.984	/	Pass
		1753.5	15	0	3.002	/	Pass
	16QAM	1711.5	15	0	2.979	/	Pass
		1732.5	15	0	3.010	/	Pass
		1753.5	15	0	3.004	/	Pass
5	QPSK	1712.5	25	0	5.046	/	Pass
		1732.5	25	0	4.986	/	Pass
		1752.5	25	0	5.007	/	Pass
	16QAM	1712.5	25	0	5.027	/	Pass
		1732.5	25	0	5.001	/	Pass
		1752.5	25	0	5.029	/	Pass
10	QPSK	1715	50	0	10.004	/	Pass
		1732.5	50	0	9.966	/	Pass
		1750	50	0	9.961	/	Pass
	16QAM	1715	50	0	9.928	/	Pass
		1732.5	50	0	9.831	/	Pass
		1750	50	0	10.017	/	Pass
15	QPSK	1717.5	75	0	15.024	/	Pass
		1732.5	75	0	14.846	/	Pass
		1747.5	75	0	17.716	/	Pass
	16QAM	1717.5	75	0	14.896	/	Pass
		1732.5	75	0	14.861	/	Pass
		1747.5	75	0	15.508	/	Pass
20	QPSK	1720	100	0	19.766	/	Pass
		1732.5	100	0	19.666	/	Pass
		1745	100	0	24.563	/	Pass
	16QAM	1720	100	0	19.661	/	Pass
		1732.5	100	0	19.799	/	Pass
		1745	100	0	21.315	/	Pass

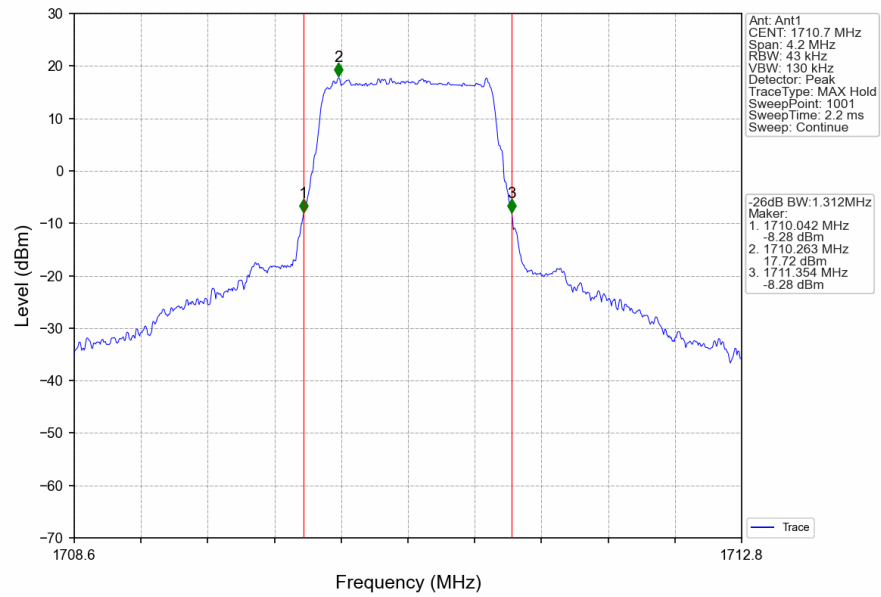
3.2.2 Test Graph



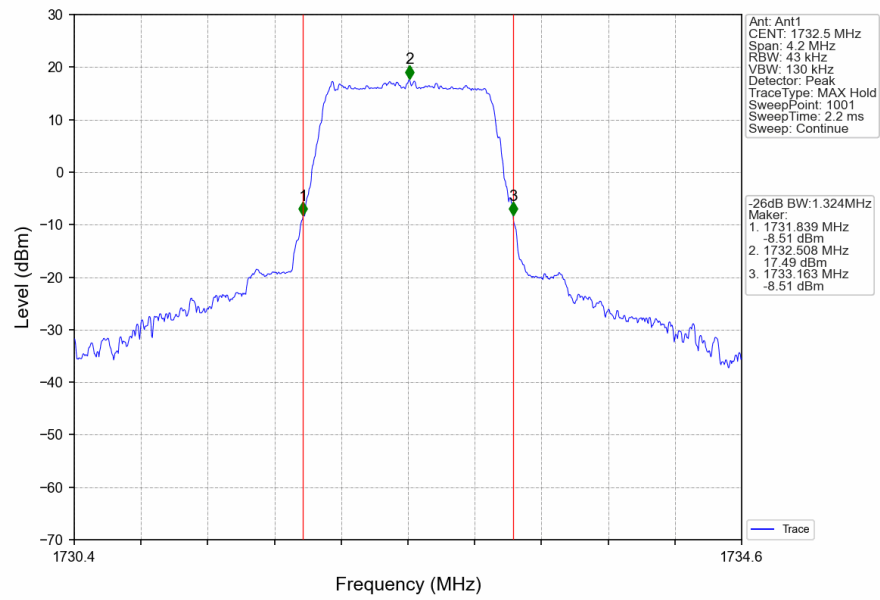
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



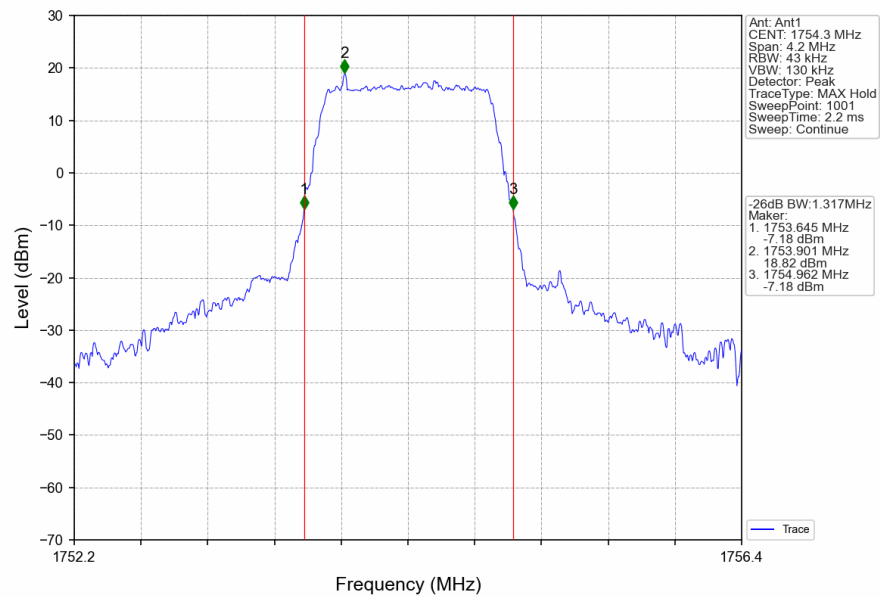
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



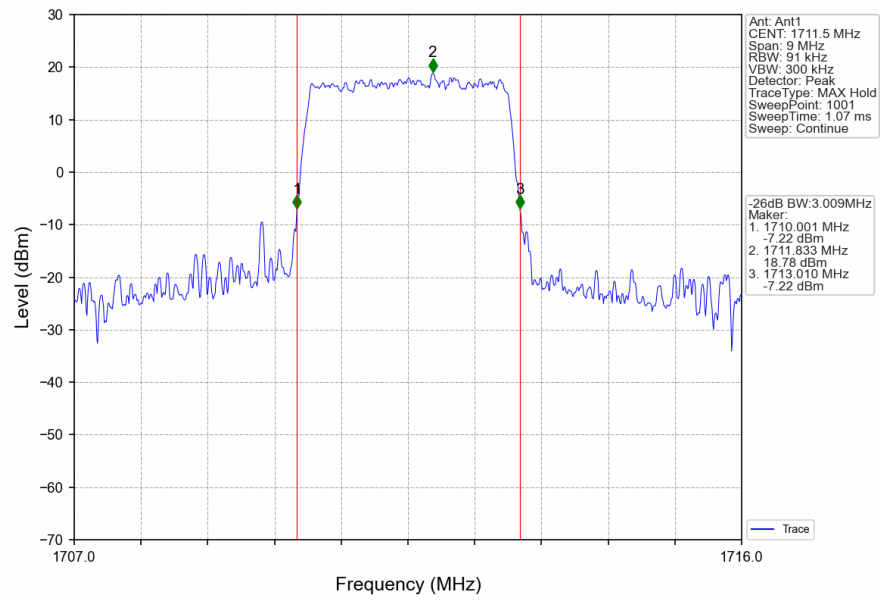
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTN



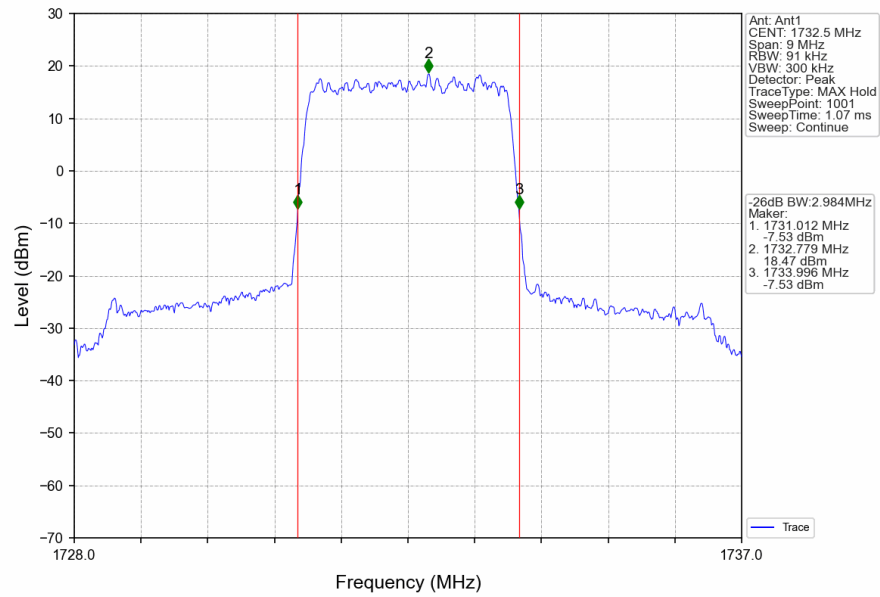
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTN



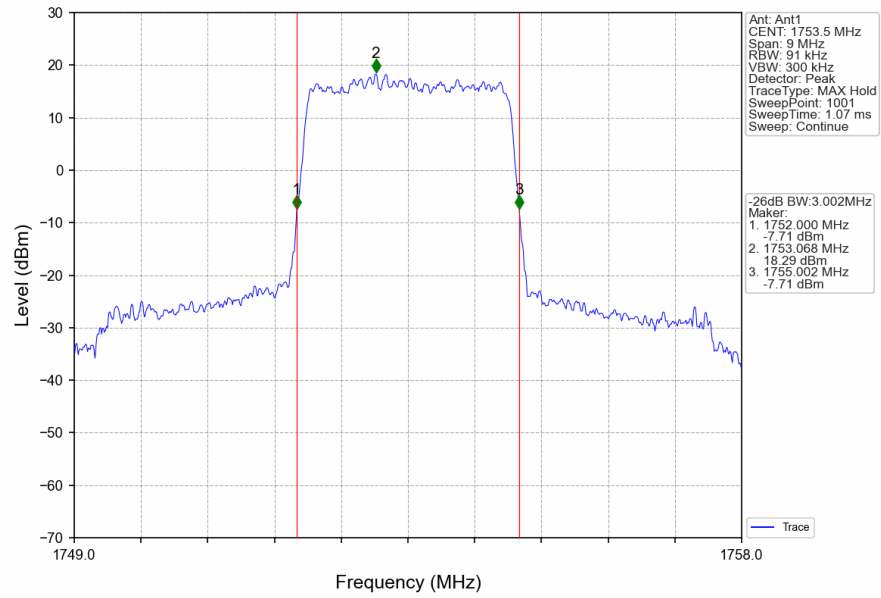
Band4 3MHz QPSK LCH 1711.5MHz RB 15_0 NTNV



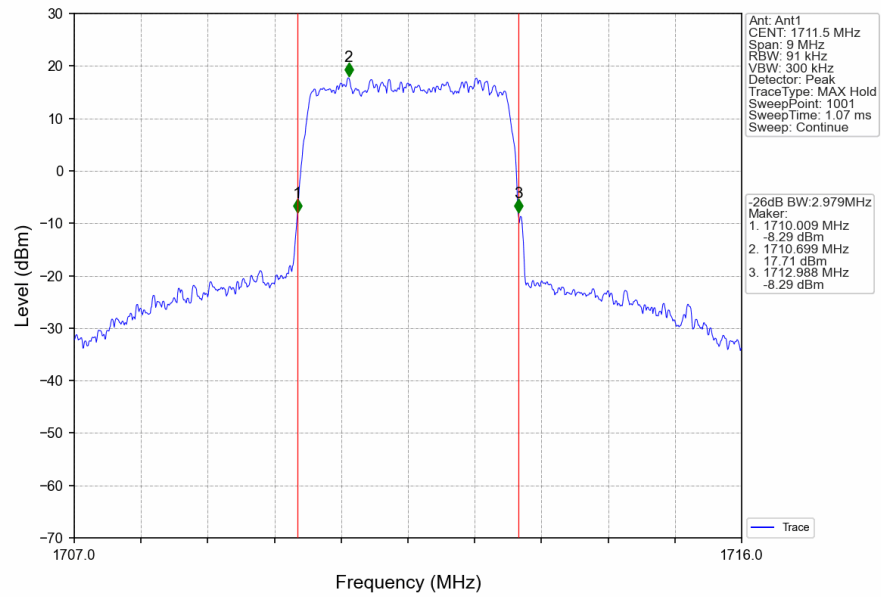
Band4 3MHz QPSK MCH 1732.5MHz RB 15_0 NTNV



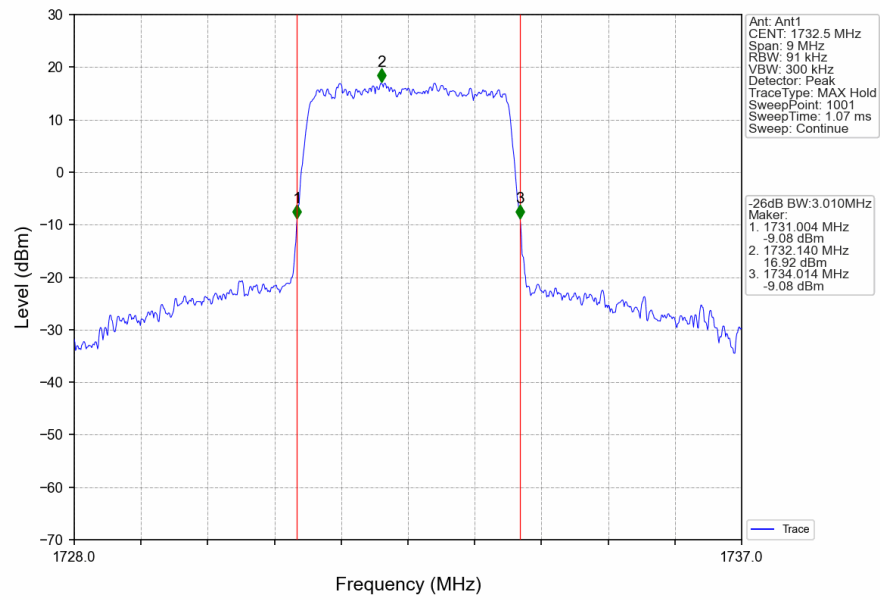
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



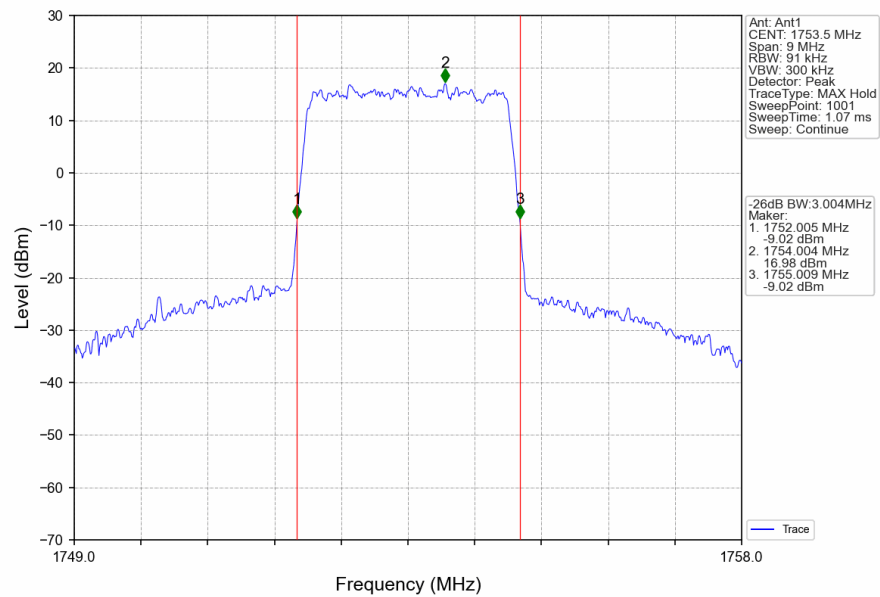
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



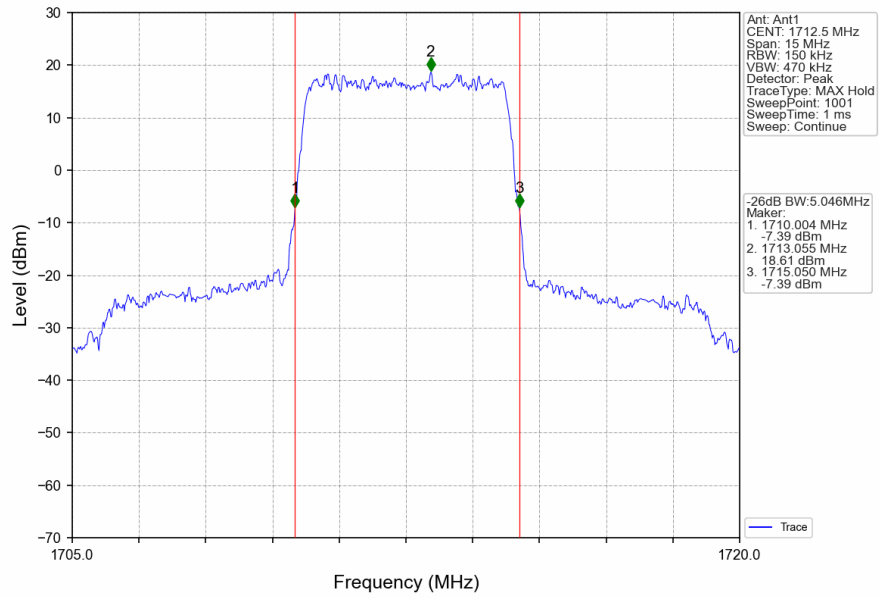
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



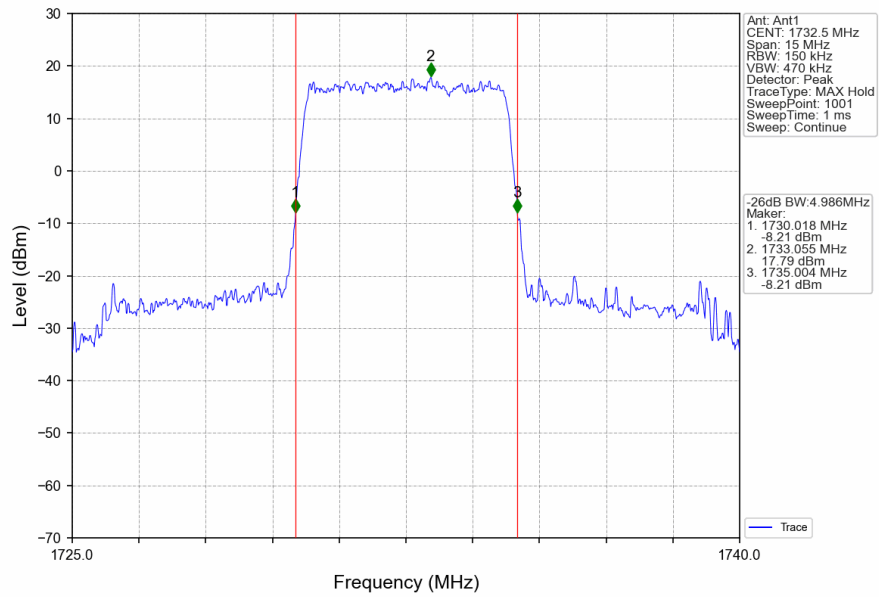
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



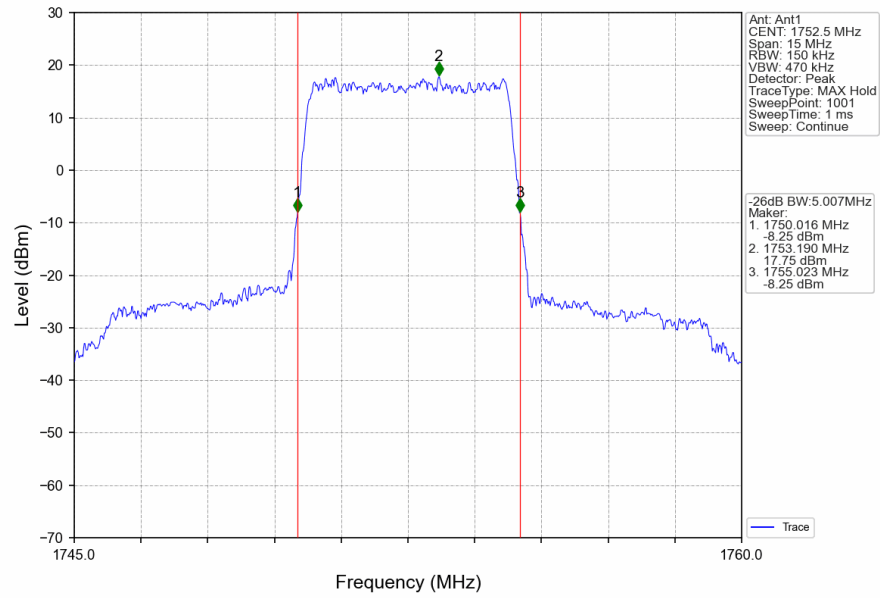
Band4 5MHz QPSK LCH 1712.5MHz RB 25_0 NTNV



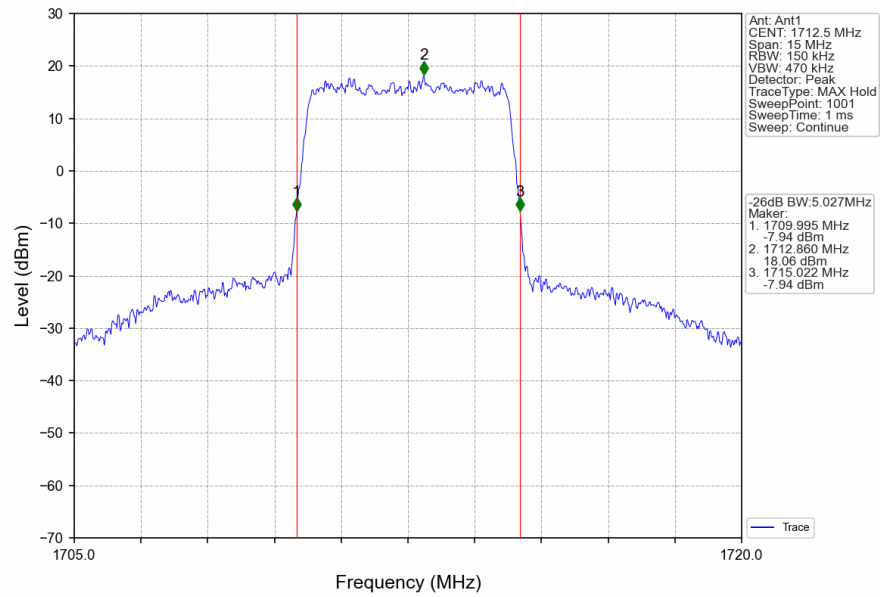
Band4 5MHz QPSK MCH 1732.5MHz RB 25_0 NTNV



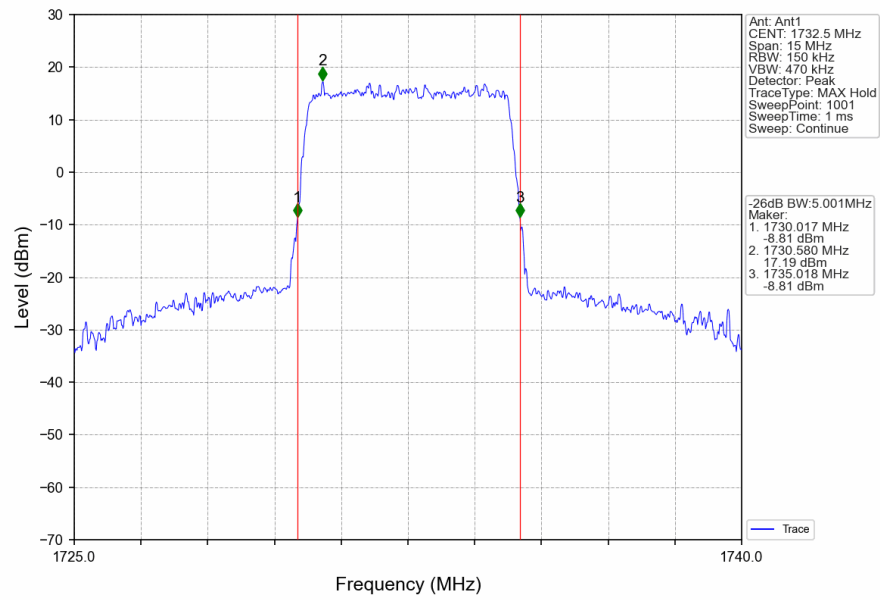
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



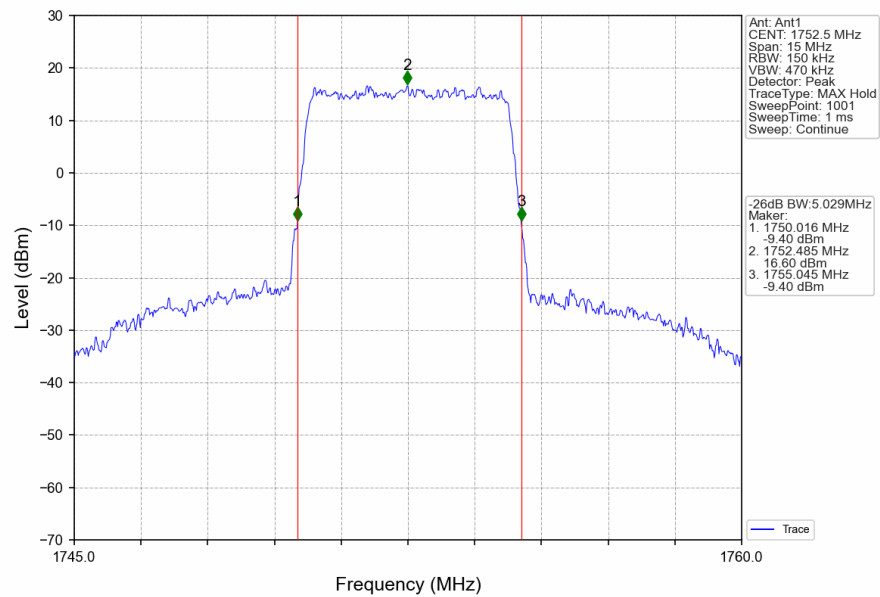
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



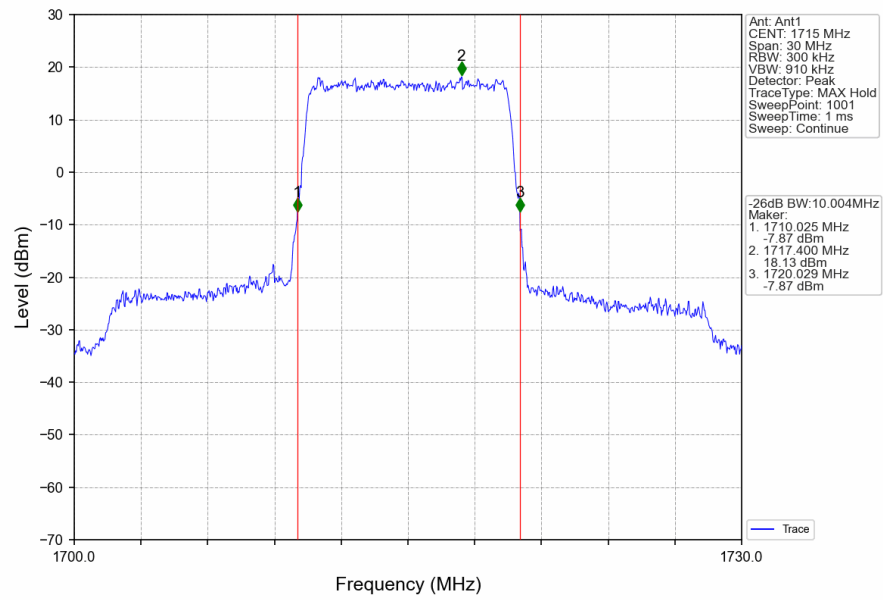
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



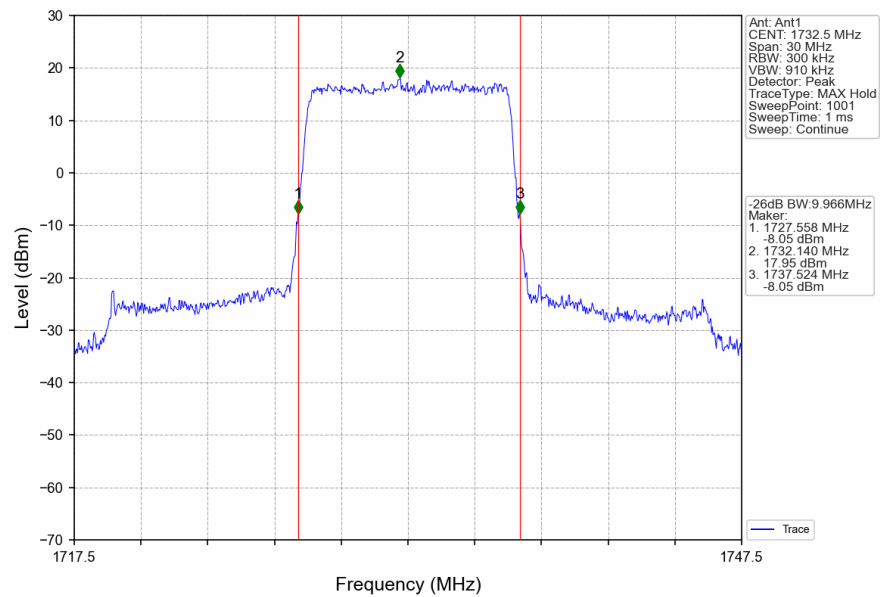
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



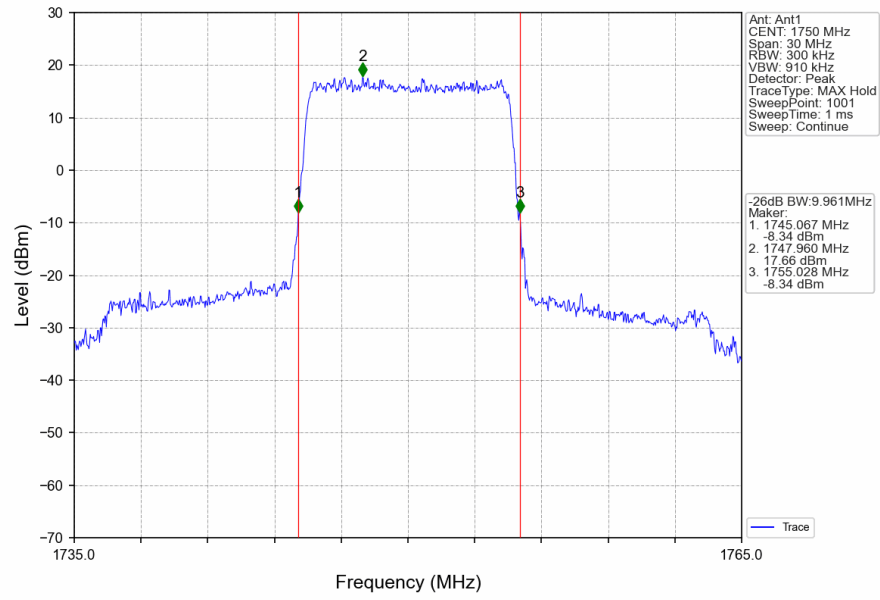
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV



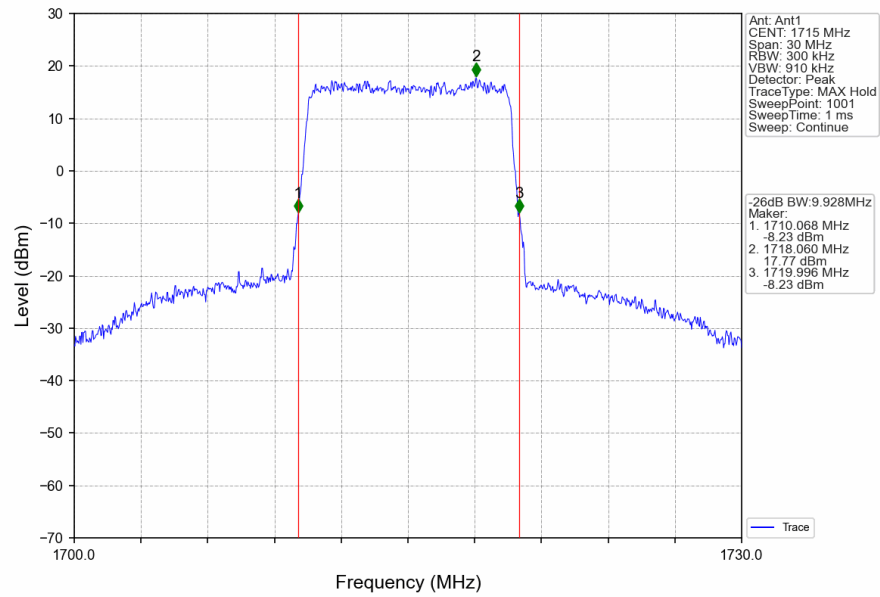
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



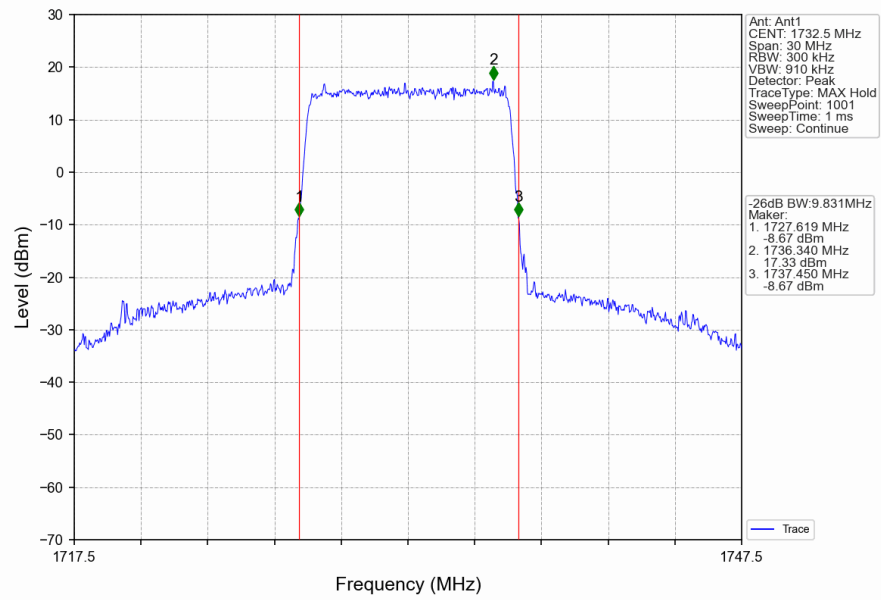
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



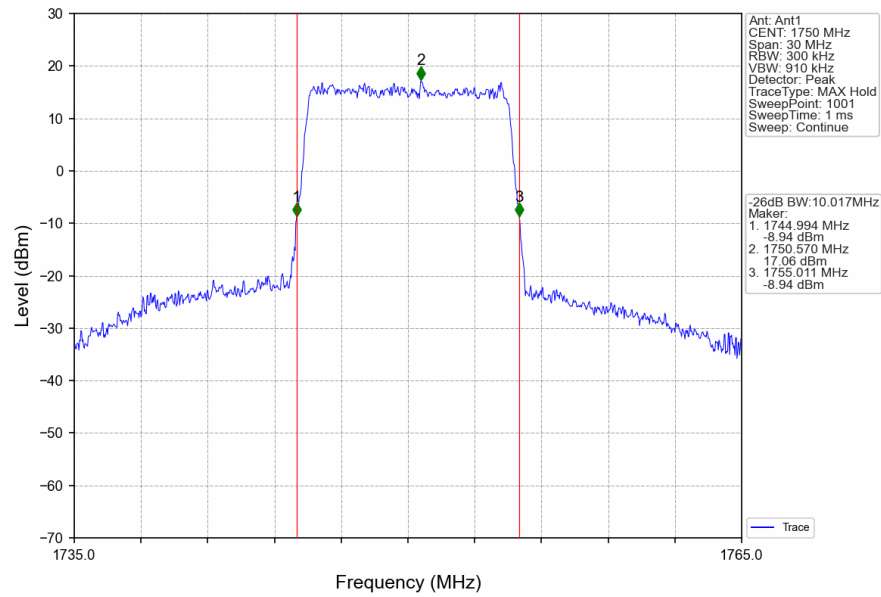
Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTNV



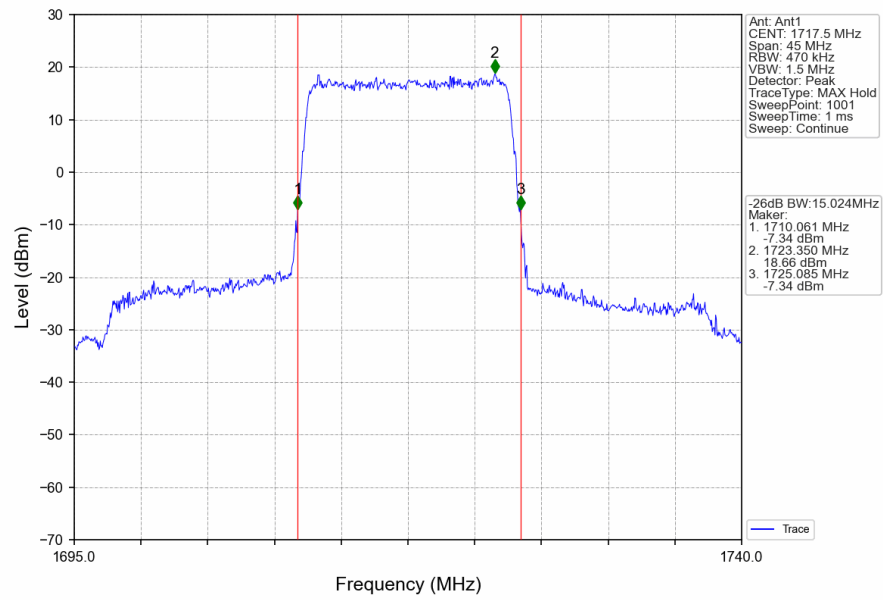
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



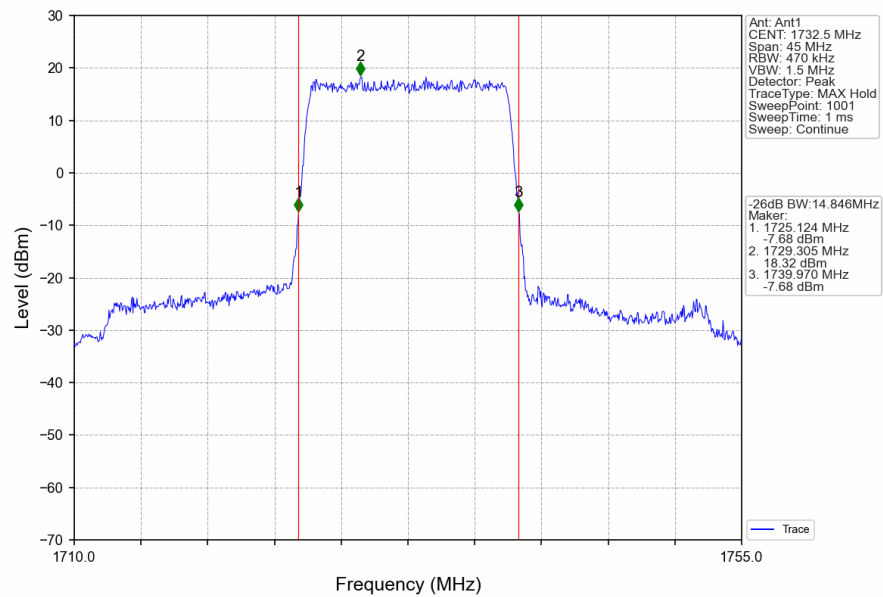
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



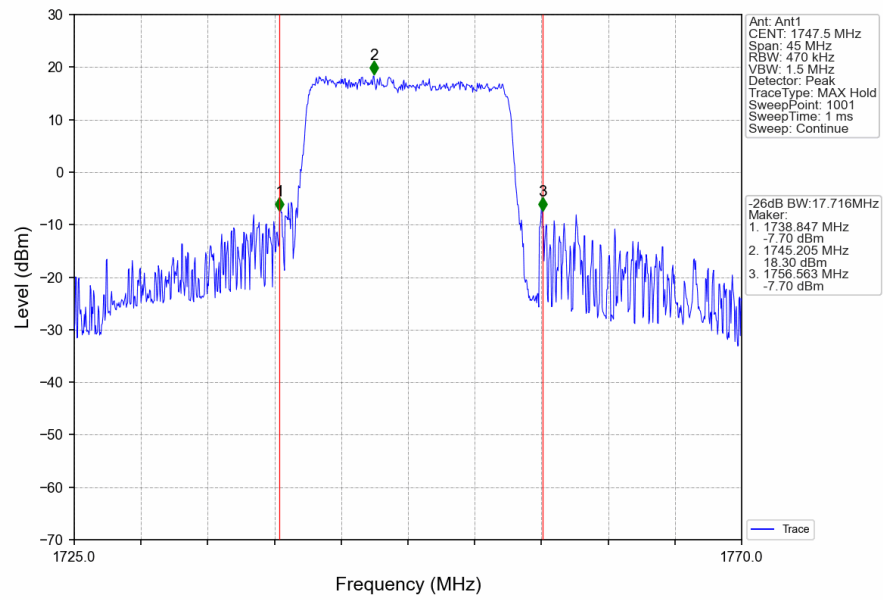
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



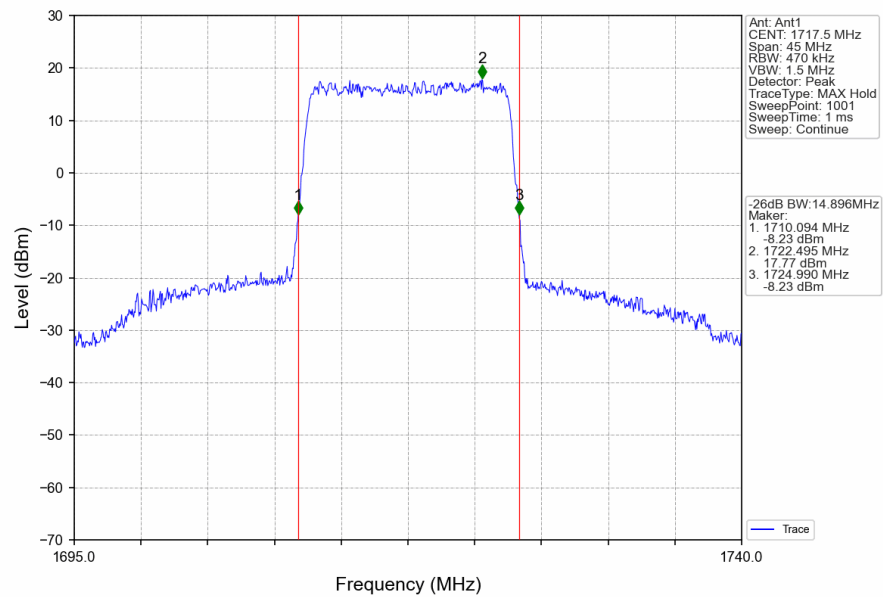
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



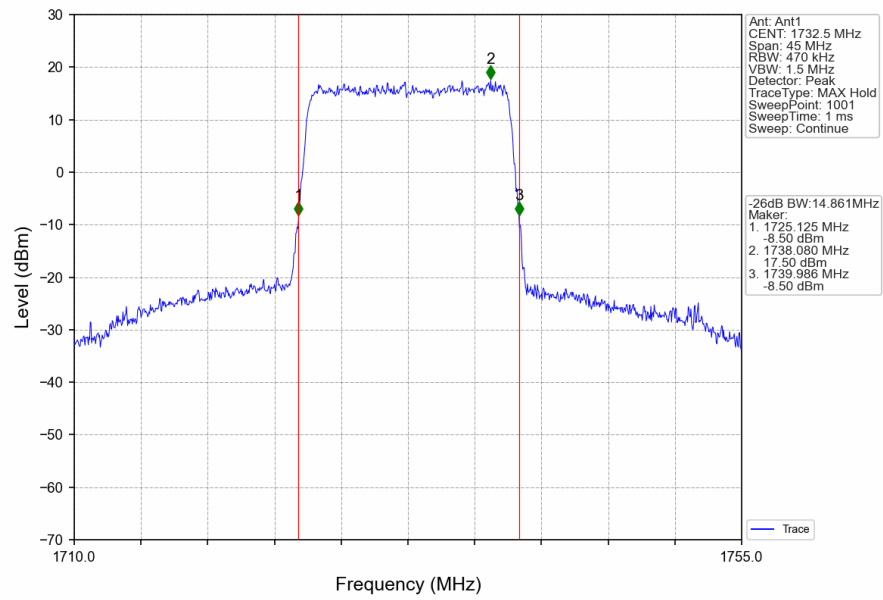
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



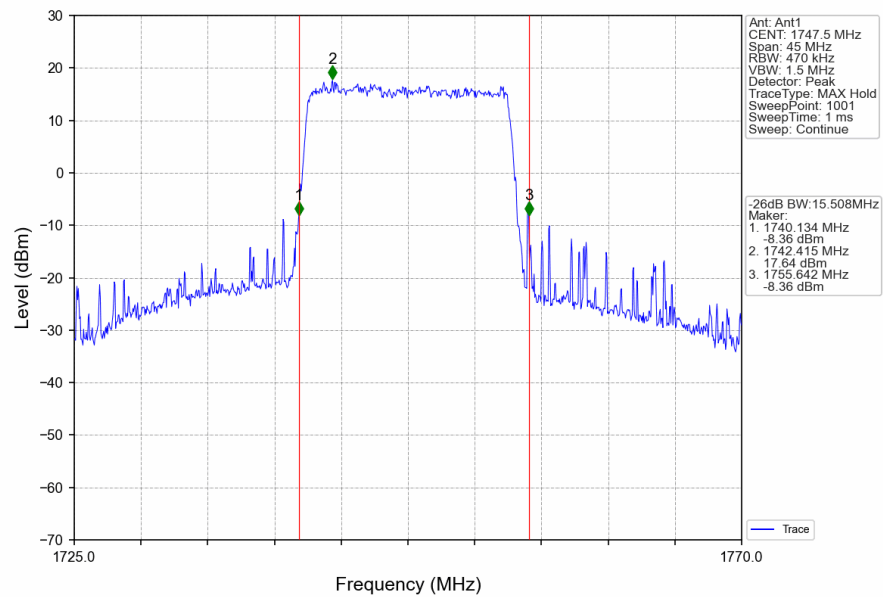
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



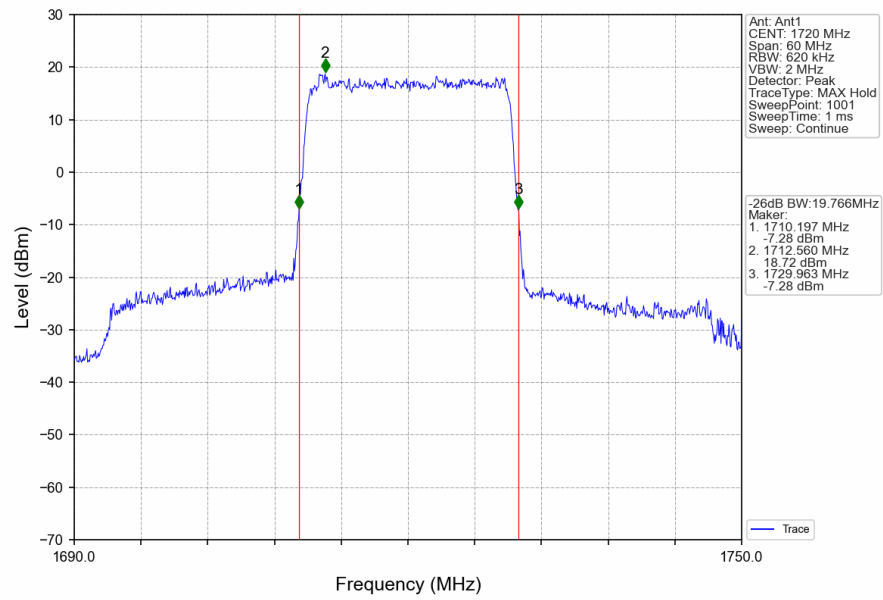
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



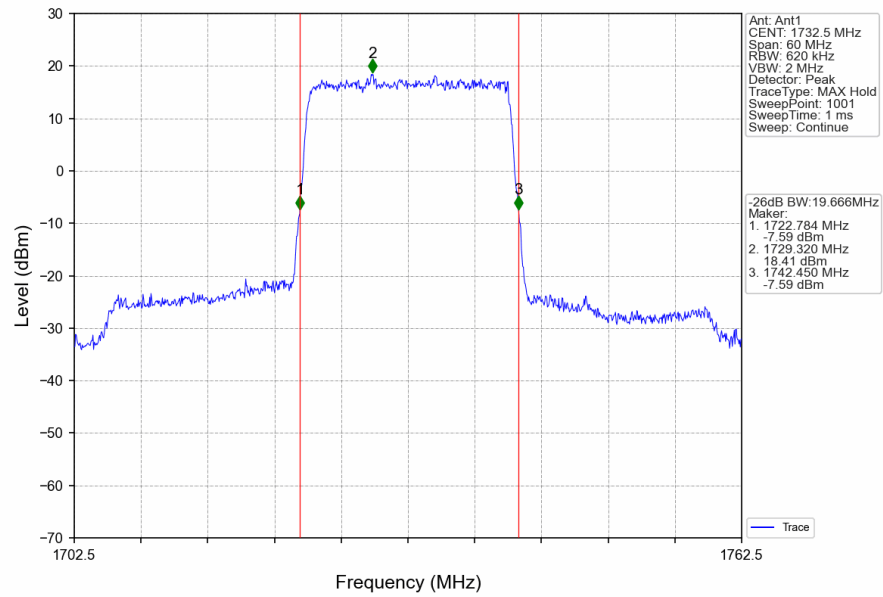
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



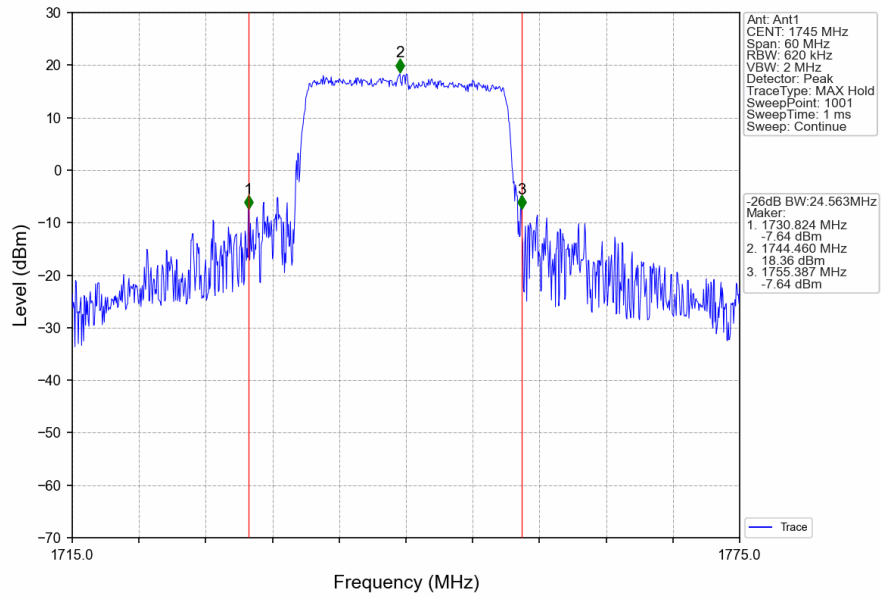
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



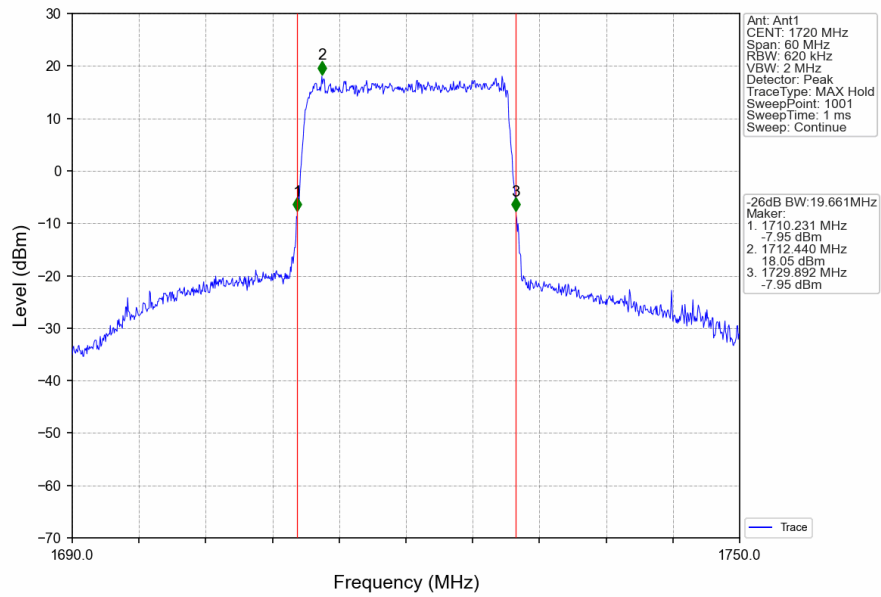
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



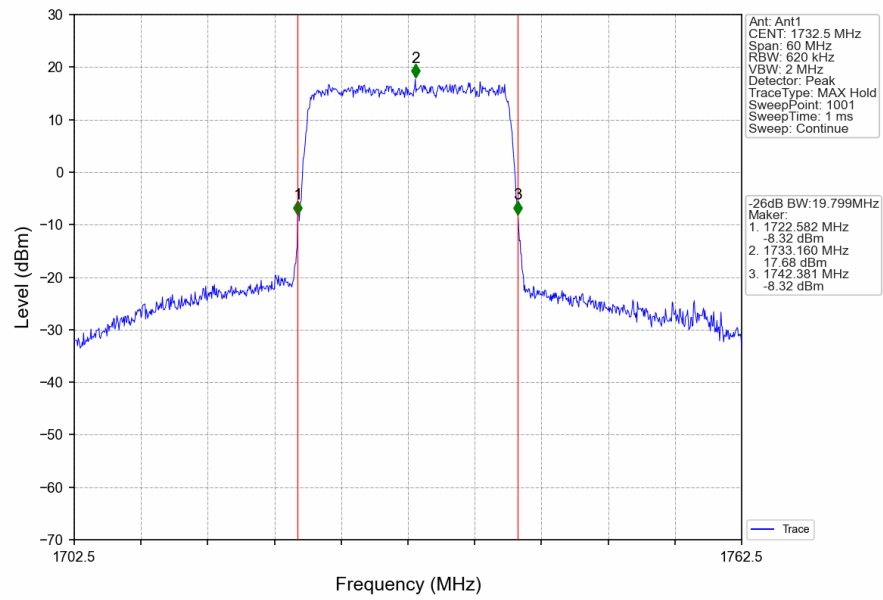
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



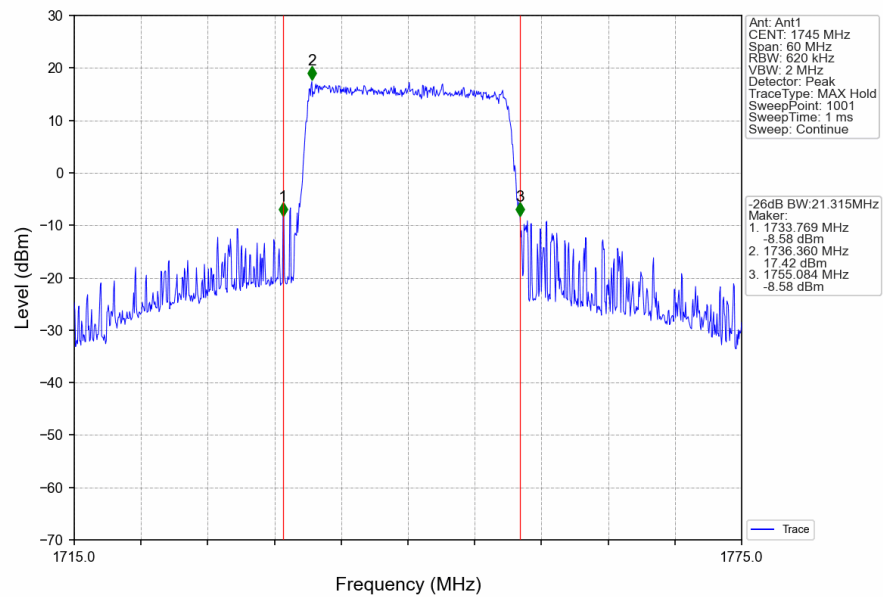
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



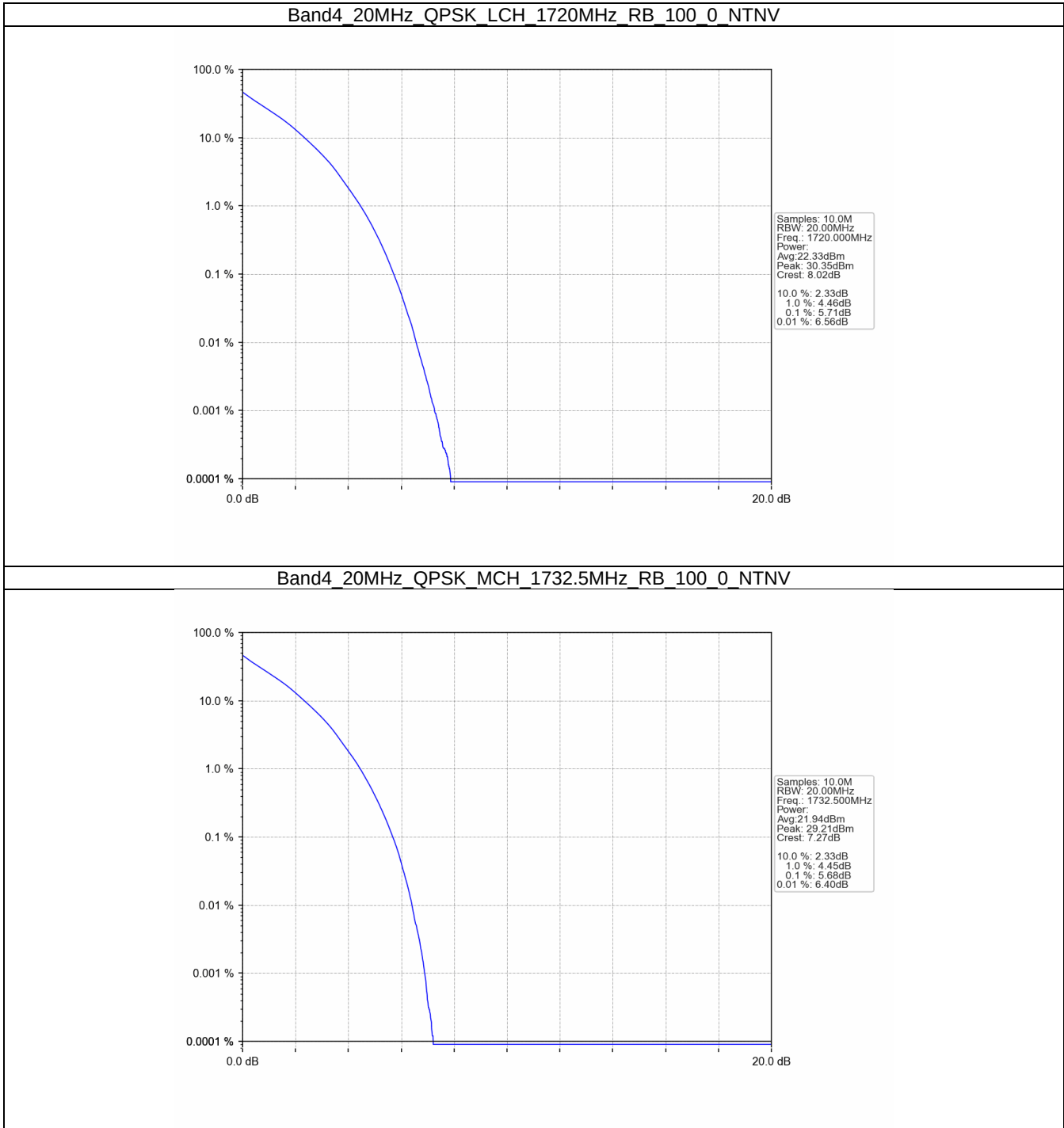
4. Peak-Average Ratio

4.1 B4_20MHz

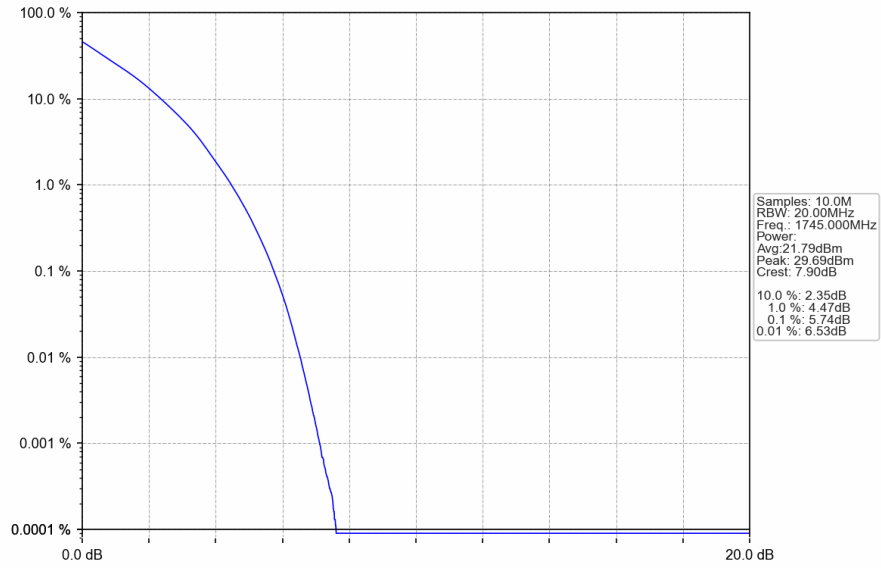
4.1.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.72	<=13	Pass
	1732.5	100	0	5.68	<=13	Pass
	1745	100	0	5.74	<=13	Pass
16QAM	1720	100	0	6.48	<=13	Pass
	1732.5	100	0	6.45	<=13	Pass
	1745	100	0	6.48	<=13	Pass

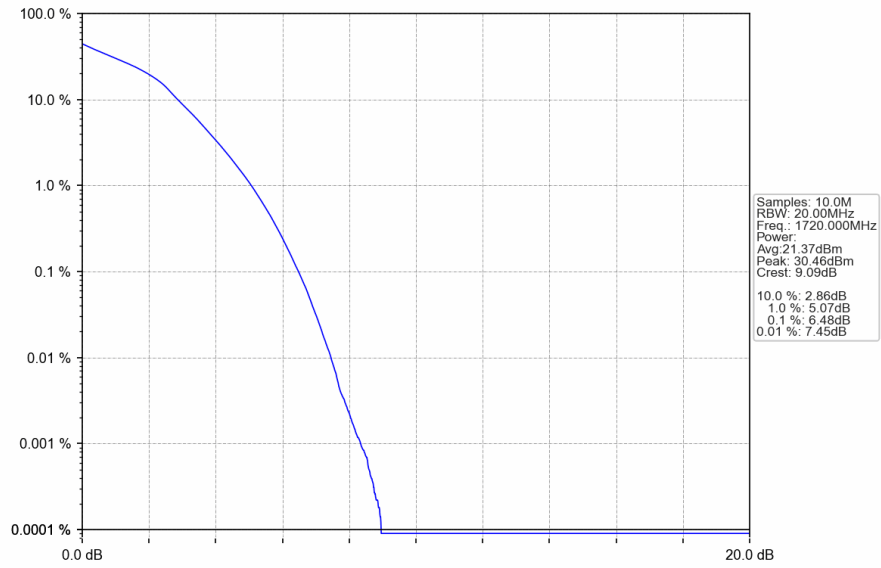
4.1.2 Test Graph



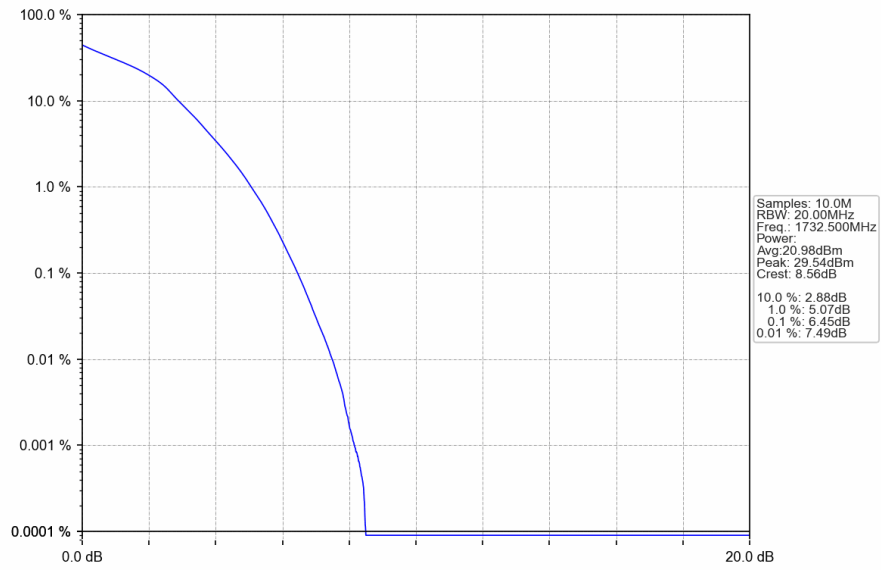
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



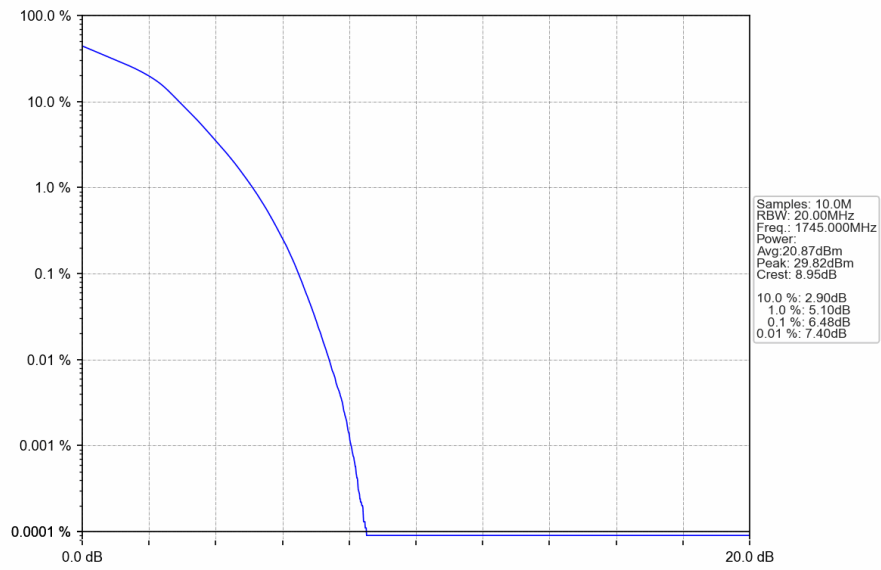
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



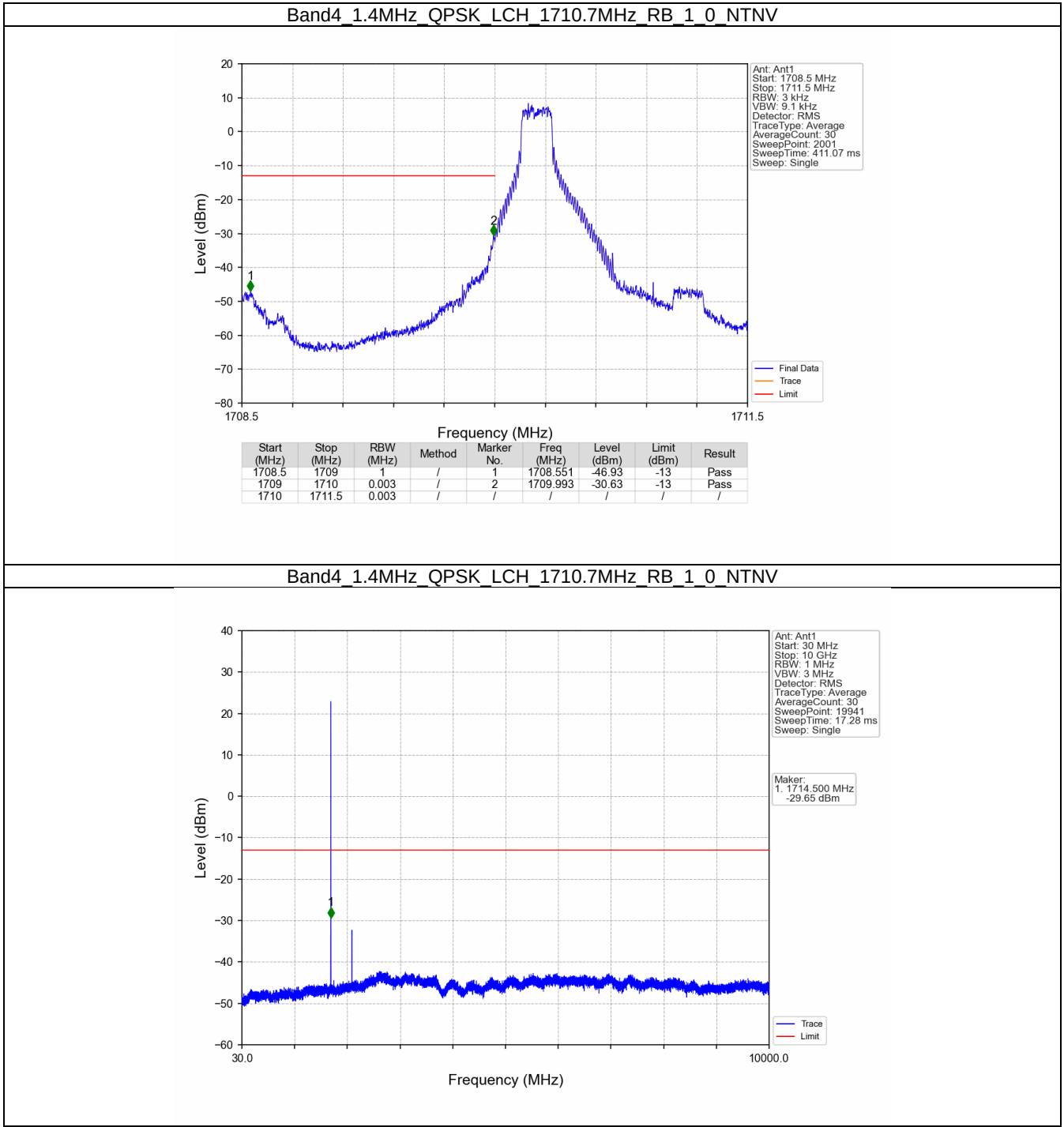
5. Spurious Emission

5.1 B4_1.4MHz

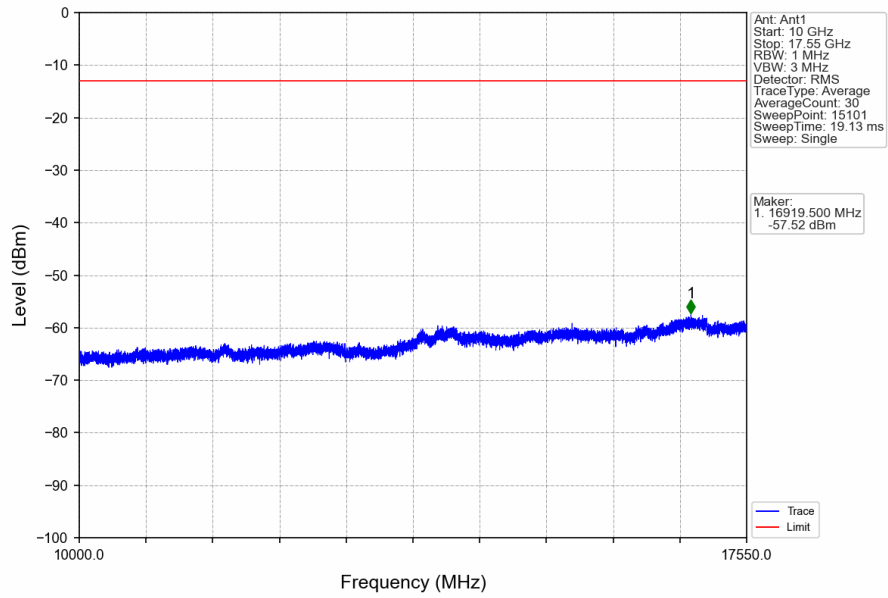
5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
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

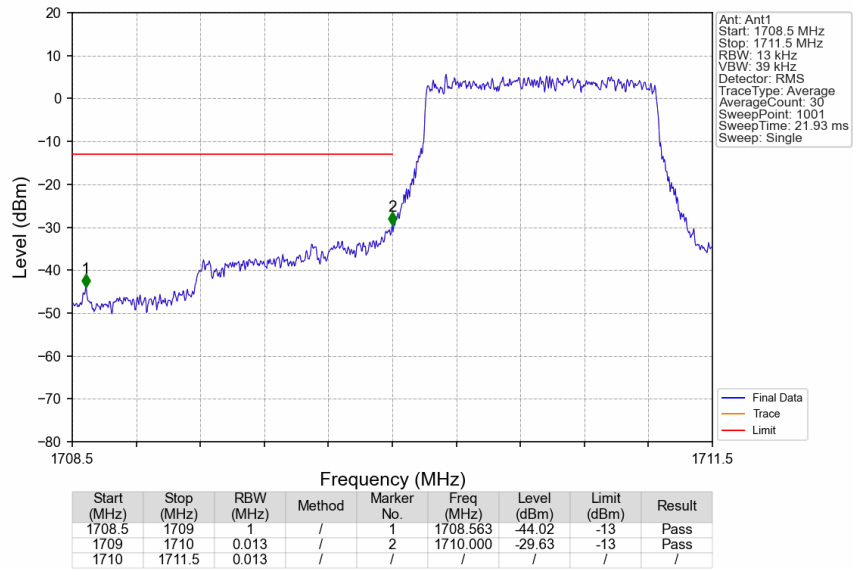
5.1.2 Test Graph



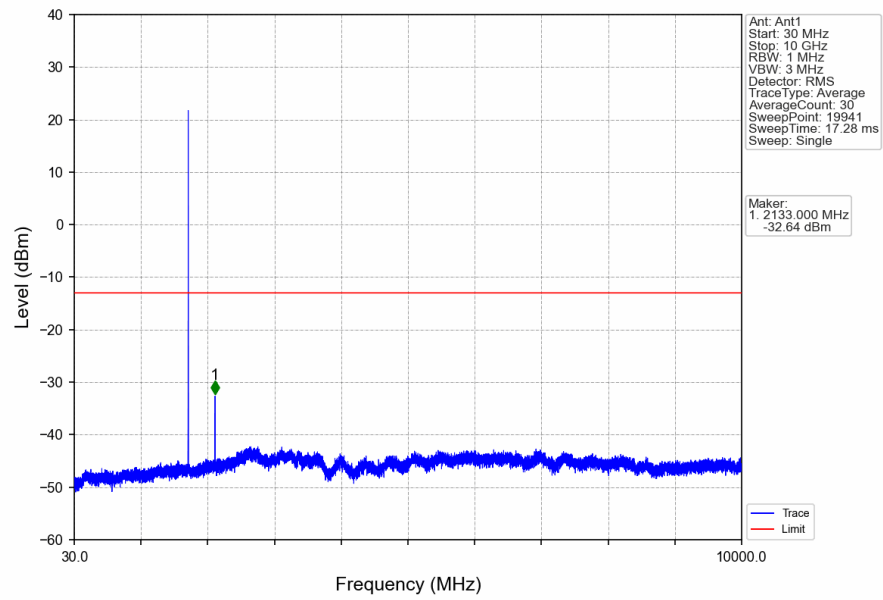
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



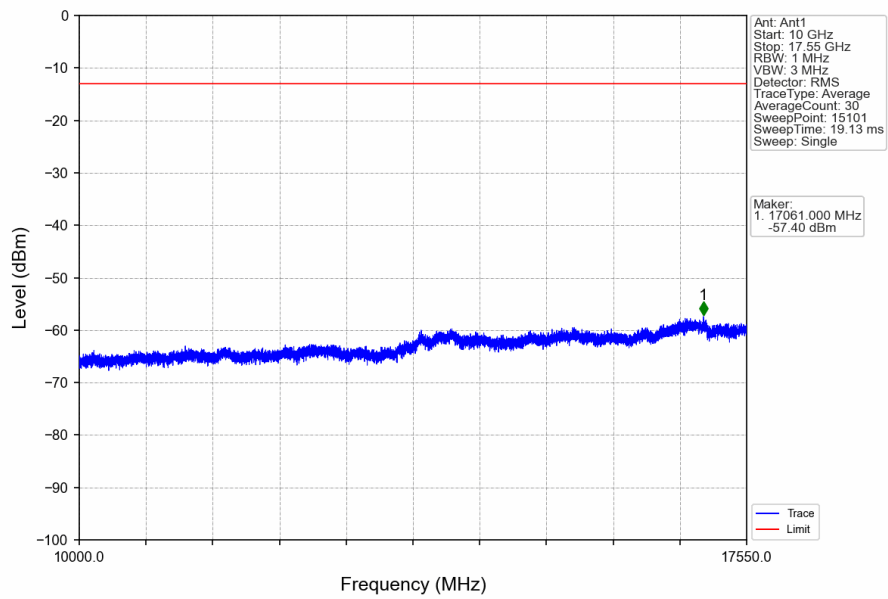
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



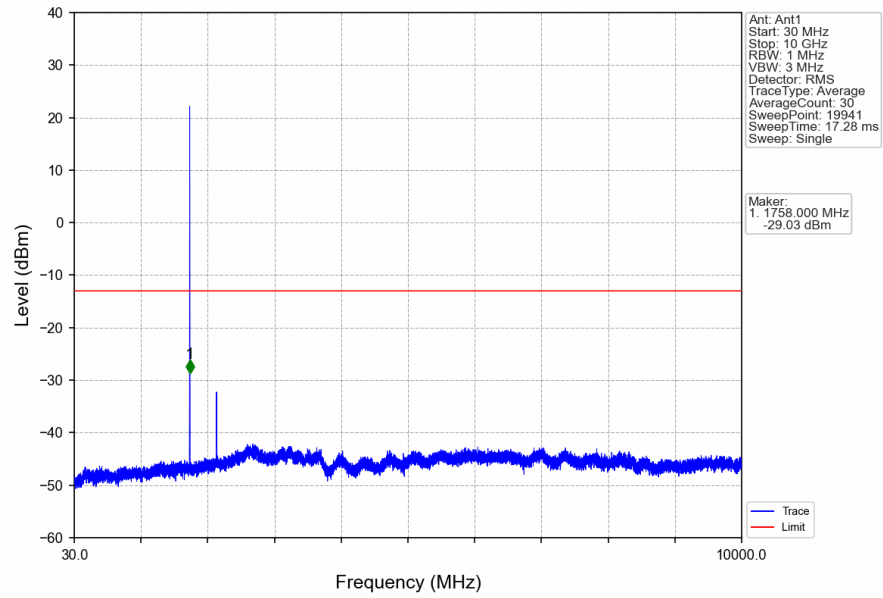
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



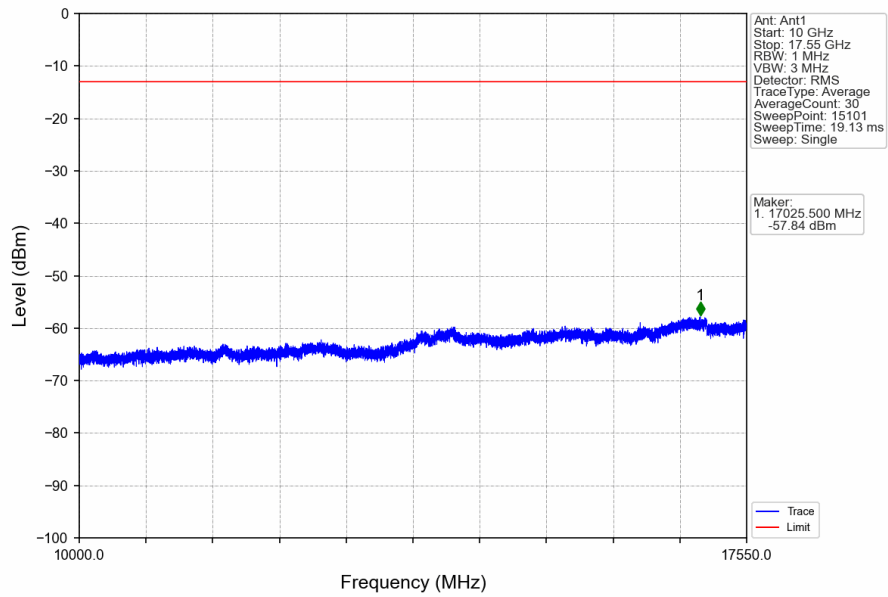
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



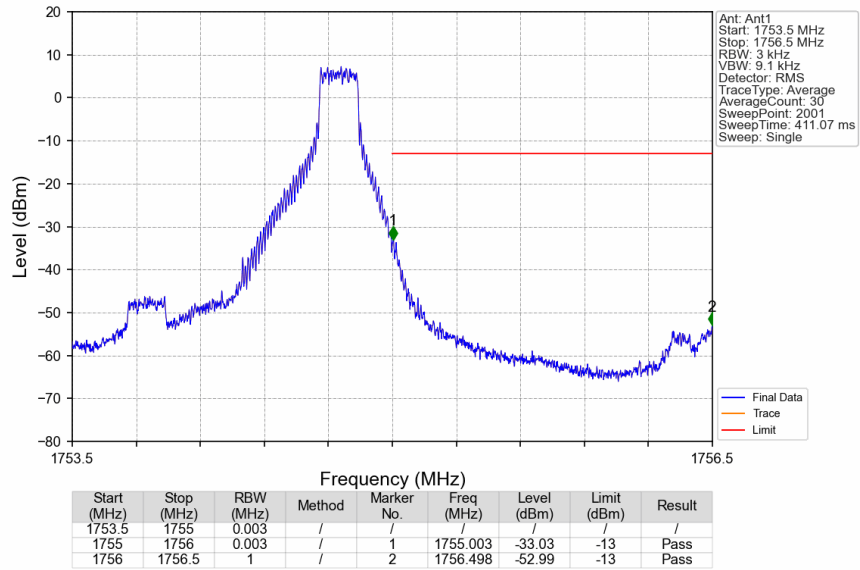
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



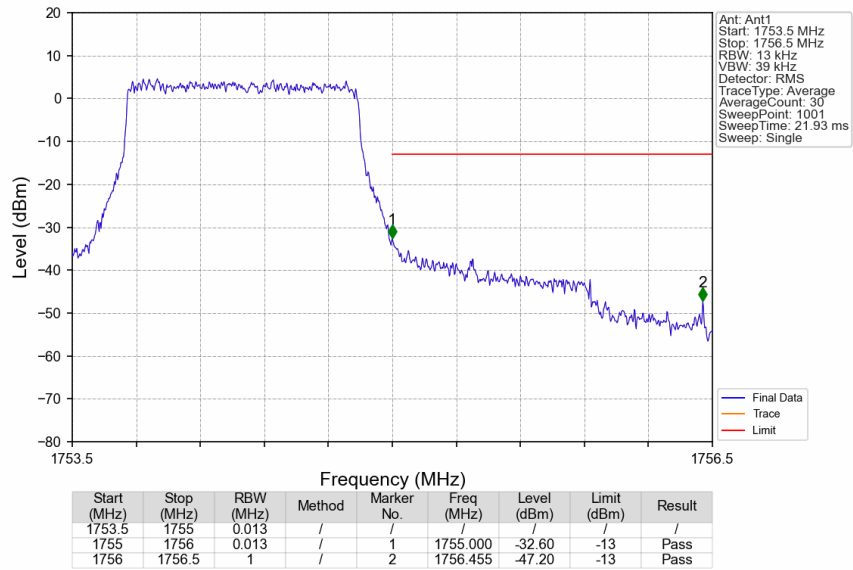
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



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

