

Appendix - LTE_band_4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	22.01	0.72	22.73	<=30	Pass
			2	22.08	0.72	22.80	<=30	Pass
			5	22.04	0.72	22.76	<=30	Pass
		3	0	22.09	0.72	22.81	<=30	Pass
			2	22.06	0.72	22.78	<=30	Pass
			3	22.01	0.72	22.73	<=30	Pass
	1732.5	6	0	21.02	0.72	21.74	<=30	Pass
			0	22.09	0.72	22.81	<=30	Pass
			2	22.09	0.72	22.81	<=30	Pass
		1	5	22.07	0.72	22.79	<=30	Pass
			0	22.20	0.72	22.92	<=30	Pass
			2	22.23	0.72	22.95	<=30	Pass
		3	3	22.15	0.72	22.87	<=30	Pass
			0	21.10	0.72	21.82	<=30	Pass
			0	21.10	0.72	21.82	<=30	Pass
	1754.3	6	0	21.40	0.72	23.12	<=30	Pass
			2	22.35	0.72	23.07	<=30	Pass
			5	22.27	0.72	22.99	<=30	Pass
		1	0	22.27	0.72	22.99	<=30	Pass
			2	22.25	0.72	22.97	<=30	Pass
			3	22.21	0.72	22.93	<=30	Pass
		3	0	21.17	0.72	21.89	<=30	Pass
			0	21.07	0.72	21.79	<=30	Pass
			2	21.13	0.72	21.85	<=30	Pass
16QAM	1710.7	1	5	21.12	0.72	21.84	<=30	Pass
			0	21.19	0.72	21.91	<=30	Pass
			2	20.91	0.72	21.63	<=30	Pass
		3	3	20.87	0.72	21.59	<=30	Pass
			0	20.26	0.72	20.98	<=30	Pass
			0	21.72	0.72	22.44	<=30	Pass
	1732.5	1	2	21.71	0.72	22.43	<=30	Pass
			5	21.72	0.72	22.44	<=30	Pass
			0	20.95	0.72	21.67	<=30	Pass
		3	2	21.04	0.72	21.76	<=30	Pass
			3	21.01	0.72	21.73	<=30	Pass
			0	20.19	0.72	20.91	<=30	Pass
	1754.3	6	0	21.46	0.72	22.18	<=30	Pass
			2	21.41	0.72	22.13	<=30	Pass
			5	21.44	0.72	22.16	<=30	Pass
		1	0	20.95	0.72	21.67	<=30	Pass
			2	20.95	0.72	21.67	<=30	Pass
			3	20.91	0.72	21.63	<=30	Pass
		3	0	20.69	0.72	21.41	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1711.5	1	0	22.07	0.72	22.79	<=30	Pass	
			7	21.96	0.72	22.68	<=30	Pass	
			14	22.01	0.72	22.73	<=30	Pass	
		8	0	20.96	0.72	21.68	<=30	Pass	
			4	21.10	0.72	21.82	<=30	Pass	
			7	21.08	0.72	21.80	<=30	Pass	
		15	0	21.01	0.72	21.73	<=30	Pass	
		1732.5	1	0	22.00	0.72	22.72	<=30	Pass
				7	22.09	0.72	22.81	<=30	Pass
	14			22.07	0.72	22.79	<=30	Pass	
	8		0	21.09	0.72	21.81	<=30	Pass	
			4	21.15	0.72	21.87	<=30	Pass	
			7	21.11	0.72	21.83	<=30	Pass	
	15		0	21.10	0.72	21.82	<=30	Pass	
	1753.5		1	0	22.13	0.72	22.85	<=30	Pass
				7	22.13	0.72	22.85	<=30	Pass
		14		22.15	0.72	22.87	<=30	Pass	
		8	0	21.16	0.72	21.88	<=30	Pass	
			4	21.27	0.72	21.99	<=30	Pass	
			7	21.24	0.72	21.96	<=30	Pass	
		15	0	21.28	0.72	22.00	<=30	Pass	
16QAM		1711.5	1	0	21.06	0.72	21.78	<=30	Pass
				7	21.03	0.72	21.75	<=30	Pass
	14			21.30	0.72	22.02	<=30	Pass	
	8		0	20.23	0.72	20.95	<=30	Pass	
			4	20.22	0.72	20.94	<=30	Pass	
			7	20.26	0.72	20.98	<=30	Pass	
	15		0	20.15	0.72	20.87	<=30	Pass	
	1732.5		1	0	22.34	0.72	23.06	<=30	Pass
				7	22.34	0.72	23.06	<=30	Pass
		14		22.34	0.72	23.06	<=30	Pass	
		8	0	20.63	0.72	21.35	<=30	Pass	
			4	20.27	0.72	20.99	<=30	Pass	
			7	20.31	0.72	21.03	<=30	Pass	
		15	0	20.18	0.72	20.90	<=30	Pass	
		1753.5	1	0	21.81	0.72	22.53	<=30	Pass
				7	21.81	0.72	22.53	<=30	Pass
	14			21.82	0.72	22.54	<=30	Pass	
	8		0	20.43	0.72	21.15	<=30	Pass	
			4	20.44	0.72	21.16	<=30	Pass	
			7	20.76	0.72	21.48	<=30	Pass	
	15		0	20.32	0.72	21.04	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	21.91	0.72	22.63	<=30	Pass
			13	21.91	0.72	22.63	<=30	Pass
			24	21.85	0.72	22.57	<=30	Pass
		12	0	20.97	0.72	21.69	<=30	Pass
			6	21.15	0.72	21.87	<=30	Pass
			13	21.04	0.72	21.76	<=30	Pass

	1732.5	25	0	21.05	0.72	21.77	<=30	Pass	
		1	0	22.01	0.72	22.73	<=30	Pass	
			13	22.12	0.72	22.84	<=30	Pass	
			24	22.14	0.72	22.86	<=30	Pass	
			0	21.10	0.72	21.82	<=30	Pass	
		12	6	21.14	0.72	21.86	<=30	Pass	
			13	21.15	0.72	21.87	<=30	Pass	
			25	0	21.15	0.72	21.87	<=30	Pass
		1752.5	1	0	22.30	0.72	23.02	<=30	Pass
				13	22.23	0.72	22.95	<=30	Pass
				24	22.12	0.72	22.84	<=30	Pass
			12	0	21.28	0.72	22.00	<=30	Pass
	6			21.17	0.72	21.89	<=30	Pass	
	13			21.20	0.72	21.92	<=30	Pass	
	25		0	21.20	0.72	21.92	<=30	Pass	
	16QAM		1712.5	1	0	21.50	0.72	22.22	<=30
		13			21.60	0.72	22.32	<=30	Pass
		24			21.62	0.72	22.34	<=30	Pass
12		0		20.13	0.72	20.85	<=30	Pass	
		6		20.13	0.72	20.85	<=30	Pass	
		13		19.95	0.72	20.67	<=30	Pass	
25		0		20.20	0.72	20.92	<=30	Pass	
1732.5		1	0	21.74	0.72	22.46	<=30	Pass	
			13	21.76	0.72	22.48	<=30	Pass	
			24	21.74	0.72	22.46	<=30	Pass	
		12	0	20.46	0.72	21.18	<=30	Pass	
			6	20.21	0.72	20.93	<=30	Pass	
			13	20.26	0.72	20.98	<=30	Pass	
		25	0	20.18	0.72	20.90	<=30	Pass	
1752.5		1	0	20.95	0.72	21.67	<=30	Pass	
			13	20.96	0.72	21.68	<=30	Pass	
			24	20.90	0.72	21.62	<=30	Pass	
		12	0	20.28	0.72	21.00	<=30	Pass	
			6	20.28	0.72	21.00	<=30	Pass	
			13	20.23	0.72	20.95	<=30	Pass	
		25	0	20.33	0.72	21.05	<=30	Pass	
		Note1: EIRP=Conducted Power+Antenna Gain							

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	21.99	0.72	22.71	<=30	Pass
			25	22.02	0.72	22.74	<=30	Pass
			49	22.04	0.72	22.76	<=30	Pass
		25	0	21.13	0.72	21.85	<=30	Pass
			13	21.17	0.72	21.89	<=30	Pass
			25	21.10	0.72	21.82	<=30	Pass
		50	0	21.14	0.72	21.86	<=30	Pass
			0	22.15	0.72	22.87	<=30	Pass
			25	22.21	0.72	22.93	<=30	Pass
	1732.5	1	49	22.29	0.72	23.01	<=30	Pass
			0	21.23	0.72	21.95	<=30	Pass
			13	21.08	0.72	21.80	<=30	Pass
		25	25	21.20	0.72	21.92	<=30	Pass
			0	21.10	0.72	21.82	<=30	Pass
			0	22.21	0.72	22.93	<=30	Pass

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 3 of 196

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

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

Version: 1/00

16QAM		25	25	22.32	0.72	23.04	<=30	Pass
			49	22.21	0.72	22.93	<=30	Pass
			0	21.30	0.72	22.02	<=30	Pass
			13	21.36	0.72	22.08	<=30	Pass
			25	21.19	0.72	21.91	<=30	Pass
	50	0	21.36	0.72	22.08	<=30	Pass	
			21.34	0.72	22.06	<=30	Pass	
			21.37	0.72	22.09	<=30	Pass	
			21.39	0.72	22.11	<=30	Pass	
			20.33	0.72	21.05	<=30	Pass	
	1715	1	20.37	0.72	21.09	<=30	Pass	
			20.62	0.72	21.34	<=30	Pass	
			20.17	0.72	20.89	<=30	Pass	
			21.75	0.72	22.47	<=30	Pass	
			21.85	0.72	22.57	<=30	Pass	
	1732.5	1	21.91	0.72	22.63	<=30	Pass	
			20.67	0.72	21.39	<=30	Pass	
			20.33	0.72	21.05	<=30	Pass	
			20.69	0.72	21.41	<=30	Pass	
			20.29	0.72	21.01	<=30	Pass	
	1750	1	22.02	0.72	22.74	<=30	Pass	
			22.14	0.72	22.86	<=30	Pass	
			21.96	0.72	22.68	<=30	Pass	
			20.27	0.72	20.99	<=30	Pass	
			20.44	0.72	21.16	<=30	Pass	
		25	20.26	0.72	20.98	<=30	Pass	
			20.47	0.72	21.19	<=30	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	21.96	0.72	22.68	<=30	Pass
			38	21.91	0.72	22.63	<=30	Pass
			74	22.02	0.72	22.74	<=30	Pass
		36	0	20.99	0.72	21.71	<=30	Pass
			18	21.08	0.72	21.80	<=30	Pass
			39	21.18	0.72	21.90	<=30	Pass
		75	0	21.14	0.72	21.86	<=30	Pass
	1732.5	1	0	22.18	0.72	22.90	<=30	Pass
			38	22.23	0.72	22.95	<=30	Pass
			74	22.42	0.72	23.14	<=30	Pass
		36	0	21.13	0.72	21.85	<=30	Pass
			18	21.15	0.72	21.87	<=30	Pass
			39	21.17	0.72	21.89	<=30	Pass
		75	0	21.21	0.72	21.93	<=30	Pass
	1747.5	1	0	22.20	0.72	22.92	<=30	Pass
			38	22.27	0.72	22.99	<=30	Pass
			74	22.20	0.72	22.92	<=30	Pass
		36	0	21.26	0.72	21.98	<=30	Pass
			18	21.29	0.72	22.01	<=30	Pass
			39	21.19	0.72	21.91	<=30	Pass
		75	0	21.24	0.72	21.96	<=30	Pass
16QAM	1717.5	1	0	21.79	0.72	22.51	<=30	Pass
			38	21.81	0.72	22.53	<=30	Pass
			74	21.88	0.72	22.60	<=30	Pass

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 4 of 196

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

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

Version: 1/00

		36	0	20.22	0.72	20.94	<=30	Pass
			18	20.41	0.72	21.13	<=30	Pass
			39	20.14	0.72	20.86	<=30	Pass
		75	0	20.46	0.72	21.18	<=30	Pass
	1732.5	1	0	21.85	0.72	22.57	<=30	Pass
			38	21.82	0.72	22.54	<=30	Pass
			74	21.92	0.72	22.64	<=30	Pass
		36	0	20.24	0.72	20.96	<=30	Pass
			18	20.27	0.72	20.99	<=30	Pass
			39	20.32	0.72	21.04	<=30	Pass
		75	0	20.23	0.72	20.95	<=30	Pass
	1747.5	1	0	21.91	0.72	22.63	<=30	Pass
			38	21.98	0.72	22.70	<=30	Pass
			74	21.97	0.72	22.69	<=30	Pass
		36	0	20.37	0.72	21.09	<=30	Pass
			18	20.42	0.72	21.14	<=30	Pass
			39	20.41	0.72	21.13	<=30	Pass
		75	0	20.24	0.72	20.96	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	22.02	0.72	22.74	<=30	Pass
			50	21.98	0.72	22.70	<=30	Pass
			99	22.13	0.72	22.85	<=30	Pass
		50	0	21.12	0.72	21.84	<=30	Pass
			25	21.01	0.72	21.73	<=30	Pass
			50	21.12	0.72	21.84	<=30	Pass
		100	0	21.06	0.72	21.78	<=30	Pass
	1732.5	1	0	22.07	0.72	22.79	<=30	Pass
			50	22.13	0.72	22.85	<=30	Pass
			99	22.15	0.72	22.87	<=30	Pass
		50	0	21.17	0.72	21.89	<=30	Pass
			25	21.13	0.72	21.85	<=30	Pass
			50	21.16	0.72	21.88	<=30	Pass
		100	0	21.13	0.72	21.85	<=30	Pass
	1745	1	0	22.10	0.72	22.82	<=30	Pass
			50	22.43	0.72	23.15	<=30	Pass
			99	22.41	0.72	23.13	<=30	Pass
		50	0	21.15	0.72	21.87	<=30	Pass
			25	21.16	0.72	21.88	<=30	Pass
			50	21.31	0.72	22.03	<=30	Pass
		100	0	21.15	0.72	21.87	<=30	Pass
16QAM	1720	1	0	22.31	0.72	23.03	<=30	Pass
			50	22.34	0.72	23.06	<=30	Pass
			99	22.42	0.72	23.14	<=30	Pass
		50	0	20.11	0.72	20.83	<=30	Pass
			25	20.39	0.72	21.11	<=30	Pass
			50	20.43	0.72	21.15	<=30	Pass
		100	0	20.49	0.72	21.21	<=30	Pass
	1732.5	1	0	21.90	0.72	22.62	<=30	Pass
			50	21.95	0.72	22.67	<=30	Pass
			99	22.09	0.72	22.81	<=30	Pass
		50	0	20.60	0.72	21.32	<=30	Pass
			25	20.26	0.72	20.98	<=30	Pass

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 5 of 196

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

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

Version: 1/00

		100	50	20.33	0.72	21.05	<=30	Pass
			0	20.19	0.72	20.91	<=30	Pass
	1745	1	0	20.91	0.72	21.63	<=30	Pass
			50	21.12	0.72	21.84	<=30	Pass
			99	21.17	0.72	21.89	<=30	Pass
	50		0	20.60	0.72	21.32	<=30	Pass
			25	20.33	0.72	21.05	<=30	Pass
			50	20.44	0.72	21.16	<=30	Pass
	100		0	20.21	0.72	20.93	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.27	19.841	0.0116	-2.5 to 2.5	Pass
					3.85	-9.141	-0.0053	-2.5 to 2.5	Pass
					4.43	-24.619	-0.0144	-2.5 to 2.5	Pass
				-30	3.85	-13.905	-0.0081	-2.5 to 2.5	Pass
					3.85	9.813	0.0057	-2.5 to 2.5	Pass
					3.85	-33.460	-0.0196	-2.5 to 2.5	Pass
				0	3.85	0.272	0.0002	-2.5 to 2.5	Pass
					3.85	-32.601	-0.0191	-2.5 to 2.5	Pass
					3.85	-21.043	-0.0123	-2.5 to 2.5	Pass
				40	3.85	7.696	0.0045	-2.5 to 2.5	Pass
					3.85	-20.499	-0.0120	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	15.464	0.0089	-2.5 to 2.5	Pass
					3.85	15.593	0.0090	-2.5 to 2.5	Pass
					4.43	15.764	0.0091	-2.5 to 2.5	Pass
				-30	3.85	14.019	0.0081	-2.5 to 2.5	Pass
					3.85	10.414	0.0060	-2.5 to 2.5	Pass
					3.85	12.388	0.0072	-2.5 to 2.5	Pass
				0	3.85	10.729	0.0062	-2.5 to 2.5	Pass
					3.85	11.458	0.0066	-2.5 to 2.5	Pass
					3.85	5.751	0.0033	-2.5 to 2.5	Pass
				40	3.85	3.948	0.0023	-2.5 to 2.5	Pass
					3.85	0.815	0.0005	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	19.712	0.0112	-2.5 to 2.5	Pass
					3.85	22.430	0.0128	-2.5 to 2.5	Pass
					4.43	27.266	0.0155	-2.5 to 2.5	Pass
				-30	3.85	32.516	0.0185	-2.5 to 2.5	Pass
					3.85	35.319	0.0201	-2.5 to 2.5	Pass
					3.85	30.713	0.0175	-2.5 to 2.5	Pass
				0	3.85	37.622	0.0214	-2.5 to 2.5	Pass
					3.85	36.507	0.0208	-2.5 to 2.5	Pass
					3.85	37.565	0.0214	-2.5 to 2.5	Pass
				40	3.85	36.736	0.0209	-2.5 to 2.5	Pass
					3.85	38.252	0.0218	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-31.071	-0.0182	-2.5 to 2.5	Pass
					3.85	-29.840	-0.0174	-2.5 to 2.5	Pass
					4.43	-30.799	-0.0180	-2.5 to 2.5	Pass

				-30	3.85	-35.620	-0.0208	-2.5 to 2.5	Pass
				-20	3.85	-40.641	-0.0238	-2.5 to 2.5	Pass
				-10	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-10.557	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-13.461	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-15.264	-0.0089	-2.5 to 2.5	Pass
				40	3.85	-18.940	-0.0111	-2.5 to 2.5	Pass
				50	3.85	-22.674	-0.0133	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	1.888	0.0011	-2.5 to 2.5	Pass
					3.85	13.661	0.0079	-2.5 to 2.5	Pass
					4.43	16.494	0.0095	-2.5 to 2.5	Pass
				-30	3.85	20.056	0.0116	-2.5 to 2.5	Pass
				-20	3.85	25.020	0.0144	-2.5 to 2.5	Pass
				-10	3.85	32.802	0.0189	-2.5 to 2.5	Pass
				0	3.85	30.398	0.0175	-2.5 to 2.5	Pass
				10	3.85	33.331	0.0192	-2.5 to 2.5	Pass
				30	3.85	4.206	0.0024	-2.5 to 2.5	Pass
				40	3.85	3.862	0.0022	-2.5 to 2.5	Pass
				50	3.85	3.061	0.0018	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	5.422	0.0031	-2.5 to 2.5	Pass
					3.85	13.704	0.0078	-2.5 to 2.5	Pass
					4.43	22.373	0.0128	-2.5 to 2.5	Pass
				-30	3.85	28.696	0.0164	-2.5 to 2.5	Pass
				-20	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	5.493	0.0031	-2.5 to 2.5	Pass
				0	3.85	15.063	0.0086	-2.5 to 2.5	Pass
				10	3.85	20.270	0.0116	-2.5 to 2.5	Pass
				30	3.85	24.090	0.0137	-2.5 to 2.5	Pass
				40	3.85	25.949	0.0148	-2.5 to 2.5	Pass
				50	3.85	33.488	0.0191	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.27	-24.705	-0.0144	-2.5 to 2.5	Pass
					3.85	-29.440	-0.0172	-2.5 to 2.5	Pass
					4.43	-26.650	-0.0156	-2.5 to 2.5	Pass
				-30	3.85	-6.065	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-21.558	-0.0126	-2.5 to 2.5	Pass
				-10	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				0	3.85	-36.592	-0.0214	-2.5 to 2.5	Pass
				10	3.85	-33.889	-0.0198	-2.5 to 2.5	Pass
				30	3.85	-18.611	-0.0109	-2.5 to 2.5	Pass
				40	3.85	-31.857	-0.0186	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.85	-25.849	-0.0151	-2.5 to 2.5	Pass
					3.27	24.490	0.0141	-2.5 to 2.5	Pass
					3.85	28.639	0.0165	-2.5 to 2.5	Pass
					4.43	17.738	0.0102	-2.5 to 2.5	Pass
				-30	3.85	11.072	0.0064	-2.5 to 2.5	Pass
				-20	3.85	9.685	0.0056	-2.5 to 2.5	Pass
				-10	3.85	4.721	0.0027	-2.5 to 2.5	Pass
				0	3.85	-1.688	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-3.119	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-7.610	-0.0044	-2.5 to 2.5	Pass
				40	3.85	-11.272	-0.0065	-2.5 to 2.5	Pass
				50	3.85	-16.179	-0.0093	-2.5 to 2.5	Pass

16QAM	1753.5	15	0	20	3.27	15.035	0.0086	-2.5 to 2.5	Pass
					3.85	9.956	0.0057	-2.5 to 2.5	Pass
					4.43	11.330	0.0065	-2.5 to 2.5	Pass
				-30	3.85	8.326	0.0047	-2.5 to 2.5	Pass
				-20	3.85	4.835	0.0028	-2.5 to 2.5	Pass
				-10	3.85	1.731	0.0010	-2.5 to 2.5	Pass
				0	3.85	-1.745	-0.0010	-2.5 to 2.5	Pass
				10	3.85	0.558	0.0003	-2.5 to 2.5	Pass
				30	3.85	2.189	0.0012	-2.5 to 2.5	Pass
				40	3.85	-3.219	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-3.176	-0.0018	-2.5 to 2.5	Pass
	1711.5	15	0	20	3.27	-30.670	-0.0179	-2.5 to 2.5	Pass
					3.85	-6.280	-0.0037	-2.5 to 2.5	Pass
					4.43	-22.759	-0.0133	-2.5 to 2.5	Pass
				-30	3.85	-33.031	-0.0193	-2.5 to 2.5	Pass
				-20	3.85	-11.015	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	-20.828	-0.0122	-2.5 to 2.5	Pass
				0	3.85	-27.194	-0.0159	-2.5 to 2.5	Pass
				10	3.85	11.058	0.0065	-2.5 to 2.5	Pass
				30	3.85	0.157	0.0001	-2.5 to 2.5	Pass
				40	3.85	-6.051	-0.0035	-2.5 to 2.5	Pass
16QAM	1732.5	15	0	20	3.27	-11.888	-0.0069	-2.5 to 2.5	Pass
					3.85	-2.947	-0.0017	-2.5 to 2.5	Pass
					4.43	9.570	0.0055	-2.5 to 2.5	Pass
				-30	3.85	17.195	0.0099	-2.5 to 2.5	Pass
				-20	3.85	16.909	0.0098	-2.5 to 2.5	Pass
				-10	3.85	20.099	0.0116	-2.5 to 2.5	Pass
				0	3.85	22.931	0.0132	-2.5 to 2.5	Pass
				10	3.85	28.124	0.0162	-2.5 to 2.5	Pass
				30	3.85	29.039	0.0168	-2.5 to 2.5	Pass
				40	3.85	32.787	0.0189	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	1.931	0.0011	-2.5 to 2.5	Pass
					3.85	13.990	0.0080	-2.5 to 2.5	Pass
					4.43	21.544	0.0123	-2.5 to 2.5	Pass
				-30	3.85	28.968	0.0165	-2.5 to 2.5	Pass
				-20	3.85	38.738	0.0221	-2.5 to 2.5	Pass
				-10	3.85	-2.861	-0.0016	-2.5 to 2.5	Pass
				0	3.85	4.349	0.0025	-2.5 to 2.5	Pass
				10	3.85	7.224	0.0041	-2.5 to 2.5	Pass
				30	3.85	14.176	0.0081	-2.5 to 2.5	Pass
				40	3.85	17.495	0.0100	-2.5 to 2.5	Pass
				50	3.85	20.914	0.0119	-2.5 to 2.5	Pass

2.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.27	6.380	0.0037	-2.5 to 2.5	Pass
					3.85	-12.760	-0.0075	-2.5 to 2.5	Pass
					4.43	-19.312	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-18.711	-0.0109	-2.5 to 2.5	Pass
				-20	3.85	-38.123	-0.0223	-2.5 to 2.5	Pass
				-10	3.85	-14.591	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-10.858	-0.0063	-2.5 to 2.5	Pass
				10	3.85	2.975	0.0017	-2.5 to 2.5	Pass

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 8 of 196

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

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

Version: 1/00

16QAM	1732.5	25	0	30	3.85	-15.922	-0.0093	-2.5 to 2.5	Pass
				40	3.85	-41.127	-0.0240	-2.5 to 2.5	Pass
				50	3.85	-23.117	-0.0135	-2.5 to 2.5	Pass
				20	3.27	15.664	0.0090	-2.5 to 2.5	Pass
					3.85	19.655	0.0113	-2.5 to 2.5	Pass
					4.43	10.943	0.0063	-2.5 to 2.5	Pass
				-30	3.85	9.828	0.0057	-2.5 to 2.5	Pass
				-20	3.85	9.685	0.0056	-2.5 to 2.5	Pass
				-10	3.85	8.411	0.0049	-2.5 to 2.5	Pass
				0	3.85	10.929	0.0063	-2.5 to 2.5	Pass
	1752.5	25	0	10	3.85	6.065	0.0035	-2.5 to 2.5	Pass
				30	3.85	6.866	0.0040	-2.5 to 2.5	Pass
				40	3.85	3.734	0.0022	-2.5 to 2.5	Pass
				50	3.85	-0.486	-0.0003	-2.5 to 2.5	Pass
				20	3.27	18.997	0.0108	-2.5 to 2.5	Pass
					3.85	14.362	0.0082	-2.5 to 2.5	Pass
					4.43	10.285	0.0059	-2.5 to 2.5	Pass
				-30	3.85	8.612	0.0049	-2.5 to 2.5	Pass
				-20	3.85	4.120	0.0024	-2.5 to 2.5	Pass
				-10	3.85	2.804	0.0016	-2.5 to 2.5	Pass
				0	3.85	0.916	0.0005	-2.5 to 2.5	Pass
				10	3.85	1.845	0.0011	-2.5 to 2.5	Pass
				30	3.85	2.546	0.0015	-2.5 to 2.5	Pass
				40	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				50	3.85	0.343	0.0002	-2.5 to 2.5	Pass
	1712.5	25	0	20	3.27	-39.783	-0.0232	-2.5 to 2.5	Pass
					3.85	-37.594	-0.0220	-2.5 to 2.5	Pass
					4.43	-34.990	-0.0204	-2.5 to 2.5	Pass
				-30	3.85	-38.180	-0.0223	-2.5 to 2.5	Pass
				-20	3.85	-4.878	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-5.980	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-9.041	-0.0053	-2.5 to 2.5	Pass
				30	3.85	-12.860	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-10.157	-0.0059	-2.5 to 2.5	Pass
				50	3.85	-13.175	-0.0077	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	1.659	0.0010	-2.5 to 2.5	Pass
					3.85	17.509	0.0101	-2.5 to 2.5	Pass
					4.43	29.511	0.0170	-2.5 to 2.5	Pass
				-30	3.85	0.687	0.0004	-2.5 to 2.5	Pass
				-20	3.85	12.789	0.0074	-2.5 to 2.5	Pass
				-10	3.85	15.450	0.0089	-2.5 to 2.5	Pass
				0	3.85	18.253	0.0105	-2.5 to 2.5	Pass
				10	3.85	24.791	0.0143	-2.5 to 2.5	Pass
				30	3.85	30.642	0.0177	-2.5 to 2.5	Pass
				40	3.85	28.367	0.0164	-2.5 to 2.5	Pass
	1752.5	25	0	50	3.85	33.317	0.0192	-2.5 to 2.5	Pass
				20	3.27	2.460	0.0014	-2.5 to 2.5	Pass
					3.85	13.905	0.0079	-2.5 to 2.5	Pass
					4.43	22.802	0.0130	-2.5 to 2.5	Pass
				-30	3.85	30.599	0.0175	-2.5 to 2.5	Pass
				-20	3.85	38.738	0.0221	-2.5 to 2.5	Pass
				-10	3.85	-7.439	-0.0042	-2.5 to 2.5	Pass
				0	3.85	2.232	0.0013	-2.5 to 2.5	Pass
				10	3.85	8.240	0.0047	-2.5 to 2.5	Pass
				30	3.85	16.236	0.0093	-2.5 to 2.5	Pass
				40	3.85	17.509	0.0100	-2.5 to 2.5	Pass
				50	3.85	19.112	0.0109	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.27	-0.944	-0.0006	-2.5 to 2.5	Pass
					3.85	-17.467	-0.0102	-2.5 to 2.5	Pass
					4.43	-9.799	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-21.915	-0.0128	-2.5 to 2.5	Pass
				-20	3.85	-34.618	-0.0202	-2.5 to 2.5	Pass
				-10	3.85	-42.458	-0.0248	-2.5 to 2.5	Pass
				0	3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-32.501	-0.0190	-2.5 to 2.5	Pass
				30	3.85	-6.394	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-20.828	-0.0121	-2.5 to 2.5	Pass
				50	3.85	-41.170	-0.0240	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	24.319	0.0140	-2.5 to 2.5	Pass
					3.85	14.148	0.0082	-2.5 to 2.5	Pass
					4.43	6.495	0.0037	-2.5 to 2.5	Pass
				-30	3.85	-1.531	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-9.928	-0.0057	-2.5 to 2.5	Pass
				-10	3.85	-14.019	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-18.868	-0.0109	-2.5 to 2.5	Pass
				10	3.85	-21.400	-0.0124	-2.5 to 2.5	Pass
				30	3.85	-25.764	-0.0149	-2.5 to 2.5	Pass
				40	3.85	-30.756	-0.0178	-2.5 to 2.5	Pass
				50	3.85	-32.988	-0.0190	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	15.864	0.0091	-2.5 to 2.5	Pass
					3.85	7.424	0.0042	-2.5 to 2.5	Pass
					4.43	-1.760	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-8.597	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-14.420	-0.0082	-2.5 to 2.5	Pass
				-10	3.85	-19.441	-0.0111	-2.5 to 2.5	Pass
				0	3.85	-26.951	-0.0154	-2.5 to 2.5	Pass
				10	3.85	-31.042	-0.0177	-2.5 to 2.5	Pass
				30	3.85	-36.464	-0.0208	-2.5 to 2.5	Pass
				40	3.85	-39.554	-0.0226	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-14.949	-0.0087	-2.5 to 2.5	Pass
					3.85	-11.115	-0.0065	-2.5 to 2.5	Pass
					4.43	-4.821	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-1.330	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-3.376	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-7.024	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-6.094	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-8.240	-0.0048	-2.5 to 2.5	Pass
				30	3.85	-8.941	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-10.757	-0.0063	-2.5 to 2.5	Pass
				50	3.85	-12.217	-0.0071	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-34.332	-0.0198	-2.5 to 2.5	Pass
					3.85	-23.975	-0.0138	-2.5 to 2.5	Pass
					4.43	-16.336	-0.0094	-2.5 to 2.5	Pass
				-30	3.85	-9.141	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-5.407	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				0	3.85	5.465	0.0032	-2.5 to 2.5	Pass
				10	3.85	10.057	0.0058	-2.5 to 2.5	Pass
				30	3.85	9.656	0.0056	-2.5 to 2.5	Pass
				40	3.85	11.129	0.0064	-2.5 to 2.5	Pass

				50	3.85	12.460	0.0072	-2.5 to 2.5	Pass
				20	3.27	4.048	0.0023	-2.5 to 2.5	Pass
					3.85	14.892	0.0085	-2.5 to 2.5	Pass
					4.43	20.800	0.0119	-2.5 to 2.5	Pass
				-30	3.85	24.290	0.0139	-2.5 to 2.5	Pass
				-20	3.85	34.375	0.0196	-2.5 to 2.5	Pass
				-10	3.85	39.582	0.0226	-2.5 to 2.5	Pass
				0	3.85	39.568	0.0226	-2.5 to 2.5	Pass
				10	3.85	41.814	0.0239	-2.5 to 2.5	Pass
				30	3.85	43.116	0.0246	-2.5 to 2.5	Pass
				40	3.85	-7.267	-0.0042	-2.5 to 2.5	Pass
				50	3.85	1.431	0.0008	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.27	-9.398	-0.0055	-2.5 to 2.5	Pass
					3.85	-23.174	-0.0135	-2.5 to 2.5	Pass
					4.43	-35.362	-0.0206	-2.5 to 2.5	Pass
				-30	3.85	-4.649	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-16.851	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-23.546	-0.0137	-2.5 to 2.5	Pass
				0	3.85	-34.161	-0.0199	-2.5 to 2.5	Pass
				10	3.85	-9.570	-0.0056	-2.5 to 2.5	Pass
				30	3.85	-23.203	-0.0135	-2.5 to 2.5	Pass
				40	3.85	9.842	0.0057	-2.5 to 2.5	Pass
				50	3.85	-7.024	-0.0041	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	10.242	0.0059	-2.5 to 2.5	Pass
					3.85	2.632	0.0015	-2.5 to 2.5	Pass
					4.43	-6.809	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-12.531	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-18.325	-0.0106	-2.5 to 2.5	Pass
				-10	3.85	-27.580	-0.0159	-2.5 to 2.5	Pass
				0	3.85	-31.071	-0.0179	-2.5 to 2.5	Pass
				10	3.85	-35.777	-0.0207	-2.5 to 2.5	Pass
				30	3.85	-40.684	-0.0235	-2.5 to 2.5	Pass
				40	3.85	-42.686	-0.0246	-2.5 to 2.5	Pass
				50	3.85	4.349	0.0025	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	7.195	0.0041	-2.5 to 2.5	Pass
					3.85	-6.037	-0.0035	-2.5 to 2.5	Pass
					4.43	-12.975	-0.0074	-2.5 to 2.5	Pass
				-30	3.85	-22.759	-0.0130	-2.5 to 2.5	Pass
				-20	3.85	-29.769	-0.0170	-2.5 to 2.5	Pass
				-10	3.85	-34.604	-0.0198	-2.5 to 2.5	Pass
				0	3.85	-40.069	-0.0229	-2.5 to 2.5	Pass
				10	3.85	7.381	0.0042	-2.5 to 2.5	Pass
				30	3.85	2.589	0.0015	-2.5 to 2.5	Pass
				40	3.85	-1.845	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-13.504	-0.0079	-2.5 to 2.5	Pass
					3.85	-13.361	-0.0078	-2.5 to 2.5	Pass
					4.43	-13.089	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-17.424	-0.0101	-2.5 to 2.5	Pass
				-20	3.85	-16.880	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-19.655	-0.0114	-2.5 to 2.5	Pass
				0	3.85	-18.897	-0.0110	-2.5 to 2.5	Pass

				10	3.85	-18.969	-0.0110	-2.5 to 2.5	Pass
				30	3.85	-20.027	-0.0117	-2.5 to 2.5	Pass
				40	3.85	-22.073	-0.0129	-2.5 to 2.5	Pass
				50	3.85	-25.463	-0.0148	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	3.691	0.0021	-2.5 to 2.5	Pass
					3.85	13.676	0.0079	-2.5 to 2.5	Pass
					4.43	21.772	0.0126	-2.5 to 2.5	Pass
				-30	3.85	27.523	0.0159	-2.5 to 2.5	Pass
				-20	3.85	-1.488	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-10.471	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-7.696	-0.0044	-2.5 to 2.5	Pass
				10	3.85	-3.705	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-4.478	-0.0026	-2.5 to 2.5	Pass
				40	3.85	-2.961	-0.0017	-2.5 to 2.5	Pass
				50	3.85	0.687	0.0004	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-4.406	-0.0025	-2.5 to 2.5	Pass
					3.85	5.593	0.0032	-2.5 to 2.5	Pass
					4.43	16.880	0.0097	-2.5 to 2.5	Pass
				-30	3.85	24.648	0.0141	-2.5 to 2.5	Pass
				-20	3.85	29.483	0.0169	-2.5 to 2.5	Pass
				-10	3.85	32.415	0.0185	-2.5 to 2.5	Pass
				0	3.85	33.031	0.0189	-2.5 to 2.5	Pass
				10	3.85	35.176	0.0201	-2.5 to 2.5	Pass
				30	3.85	40.083	0.0229	-2.5 to 2.5	Pass
				40	3.85	42.872	0.0245	-2.5 to 2.5	Pass
				50	3.85	-5.050	-0.0029	-2.5 to 2.5	Pass

2.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.27	-15.206	-0.0088	-2.5 to 2.5	Pass
					3.85	-36.178	-0.0210	-2.5 to 2.5	Pass
					4.43	-23.289	-0.0135	-2.5 to 2.5	Pass
				-30	3.85	-13.289	-0.0077	-2.5 to 2.5	Pass
				-20	3.85	8.812	0.0051	-2.5 to 2.5	Pass
				-10	3.85	-21.844	-0.0127	-2.5 to 2.5	Pass
				0	3.85	-7.710	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-22.702	-0.0132	-2.5 to 2.5	Pass
				30	3.85	-38.424	-0.0223	-2.5 to 2.5	Pass
				40	3.85	-12.388	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-20.571	-0.0120	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-4.220	-0.0024	-2.5 to 2.5	Pass
					3.85	-33.202	-0.0192	-2.5 to 2.5	Pass
					4.43	11.702	0.0068	-2.5 to 2.5	Pass
				-30	3.85	-17.509	-0.0101	-2.5 to 2.5	Pass
				-20	3.85	-7.238	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-28.310	-0.0163	-2.5 to 2.5	Pass
				0	3.85	-4.849	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-15.163	-0.0088	-2.5 to 2.5	Pass
				30	3.85	-26.479	-0.0153	-2.5 to 2.5	Pass
				40	3.85	-4.320	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-8.783	-0.0051	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	13.490	0.0077	-2.5 to 2.5	Pass
					3.85	-7.224	-0.0041	-2.5 to 2.5	Pass
					4.43	-19.369	-0.0111	-2.5 to 2.5	Pass
				-30	3.85	-33.488	-0.0192	-2.5 to 2.5	Pass

				-20	3.85	-22.745	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-9.842	-0.0056	-2.5 to 2.5	Pass
				0	3.85	-21.501	-0.0123	-2.5 to 2.5	Pass
				10	3.85	-22.974	-0.0132	-2.5 to 2.5	Pass
				30	3.85	-27.165	-0.0156	-2.5 to 2.5	Pass
				40	3.85	-32.372	-0.0186	-2.5 to 2.5	Pass
				50	3.85	-40.541	-0.0232	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-22.488	-0.0131	-2.5 to 2.5	Pass
					3.85	-16.222	-0.0094	-2.5 to 2.5	Pass
					4.43	-20.771	-0.0121	-2.5 to 2.5	Pass
				-30	3.85	-26.951	-0.0157	-2.5 to 2.5	Pass
				-20	3.85	-23.189	-0.0135	-2.5 to 2.5	Pass
				-10	3.85	-24.676	-0.0143	-2.5 to 2.5	Pass
				0	3.85	-8.969	-0.0052	-2.5 to 2.5	Pass
				10	3.85	-4.749	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-32.501	-0.0189	-2.5 to 2.5	Pass
				40	3.85	-10.171	-0.0059	-2.5 to 2.5	Pass
	50	3.85	3.119	0.0018	-2.5 to 2.5	Pass			
	1732.5	100	0	20	3.27	-11.287	-0.0065	-2.5 to 2.5	Pass
					3.85	-1.559	-0.0009	-2.5 to 2.5	Pass
					4.43	1.416	0.0008	-2.5 to 2.5	Pass
				-30	3.85	10.328	0.0060	-2.5 to 2.5	Pass
				-20	3.85	13.790	0.0080	-2.5 to 2.5	Pass
				-10	3.85	13.418	0.0077	-2.5 to 2.5	Pass
				0	3.85	17.853	0.0103	-2.5 to 2.5	Pass
				10	3.85	17.910	0.0103	-2.5 to 2.5	Pass
				30	3.85	16.065	0.0093	-2.5 to 2.5	Pass
				40	3.85	14.362	0.0083	-2.5 to 2.5	Pass
	50	3.85	13.475	0.0078	-2.5 to 2.5	Pass			
	1745	100	0	20	3.27	7.939	0.0045	-2.5 to 2.5	Pass
					3.85	15.635	0.0090	-2.5 to 2.5	Pass
					4.43	18.883	0.0108	-2.5 to 2.5	Pass
				-30	3.85	27.881	0.0160	-2.5 to 2.5	Pass
				-20	3.85	26.107	0.0150	-2.5 to 2.5	Pass
				-10	3.85	-16.608	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-16.136	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-13.962	-0.0080	-2.5 to 2.5	Pass
30				3.85	-14.434	-0.0083	-2.5 to 2.5	Pass	
40				3.85	-14.949	-0.0086	-2.5 to 2.5	Pass	
50	3.85	-11.530	-0.0066	-2.5 to 2.5	Pass				

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

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

3.1.2 B4_3MHz

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

3.1.3 B4_5MHz

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

3.1.4 B4_10MHz

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

3.1.5 B4_15MHz

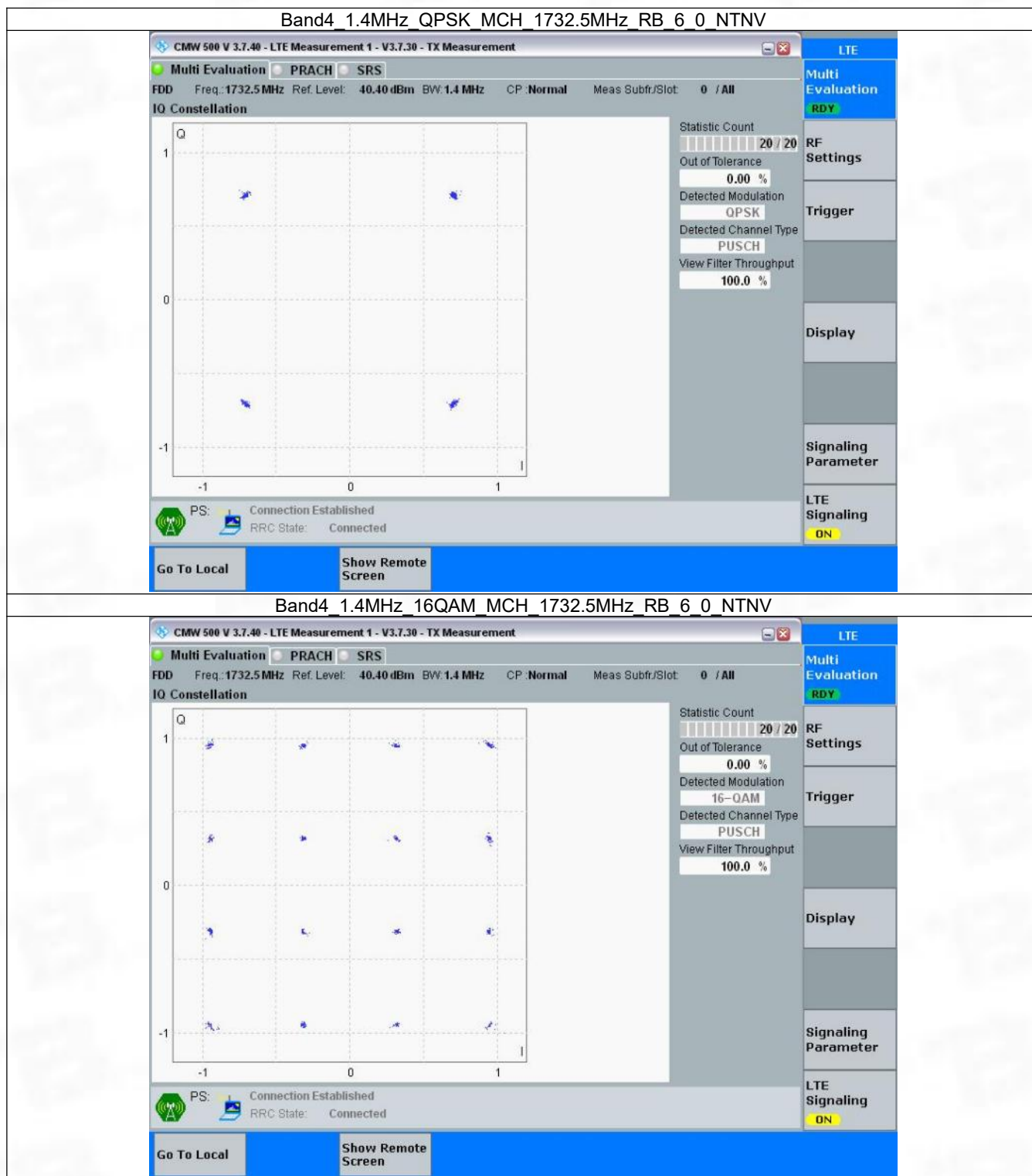
Band: 4 / Bandwidth: 15MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	75	0	Refer To Test Graph	
16QAM	1732.5	75	0	Refer To Test Graph	

3.1.6 B4_20MHz

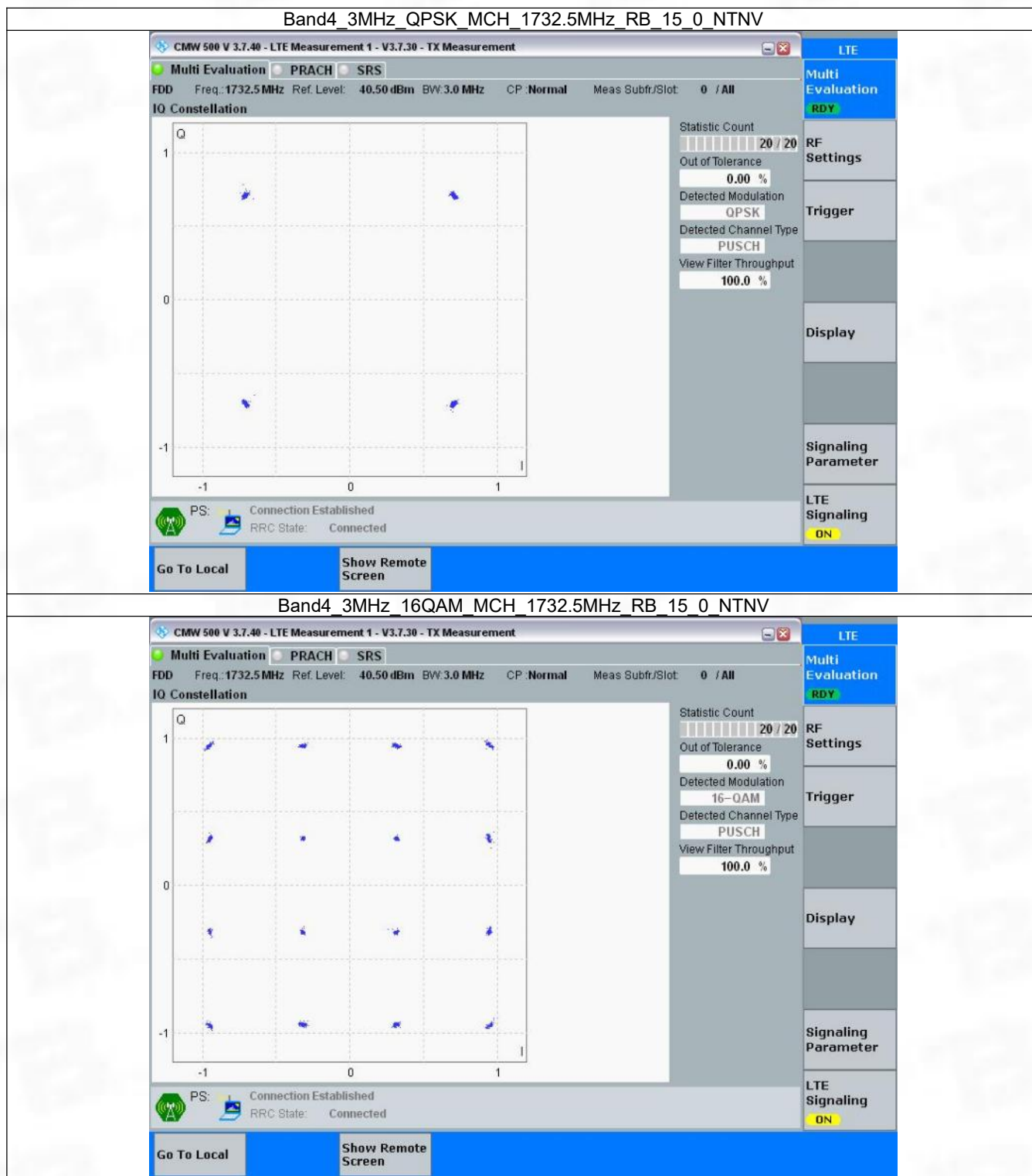
Band: 4 / Bandwidth: 20MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	100	0	Refer To Test Graph	
16QAM	1732.5	100	0	Refer To Test Graph	

3.2 Test Graph

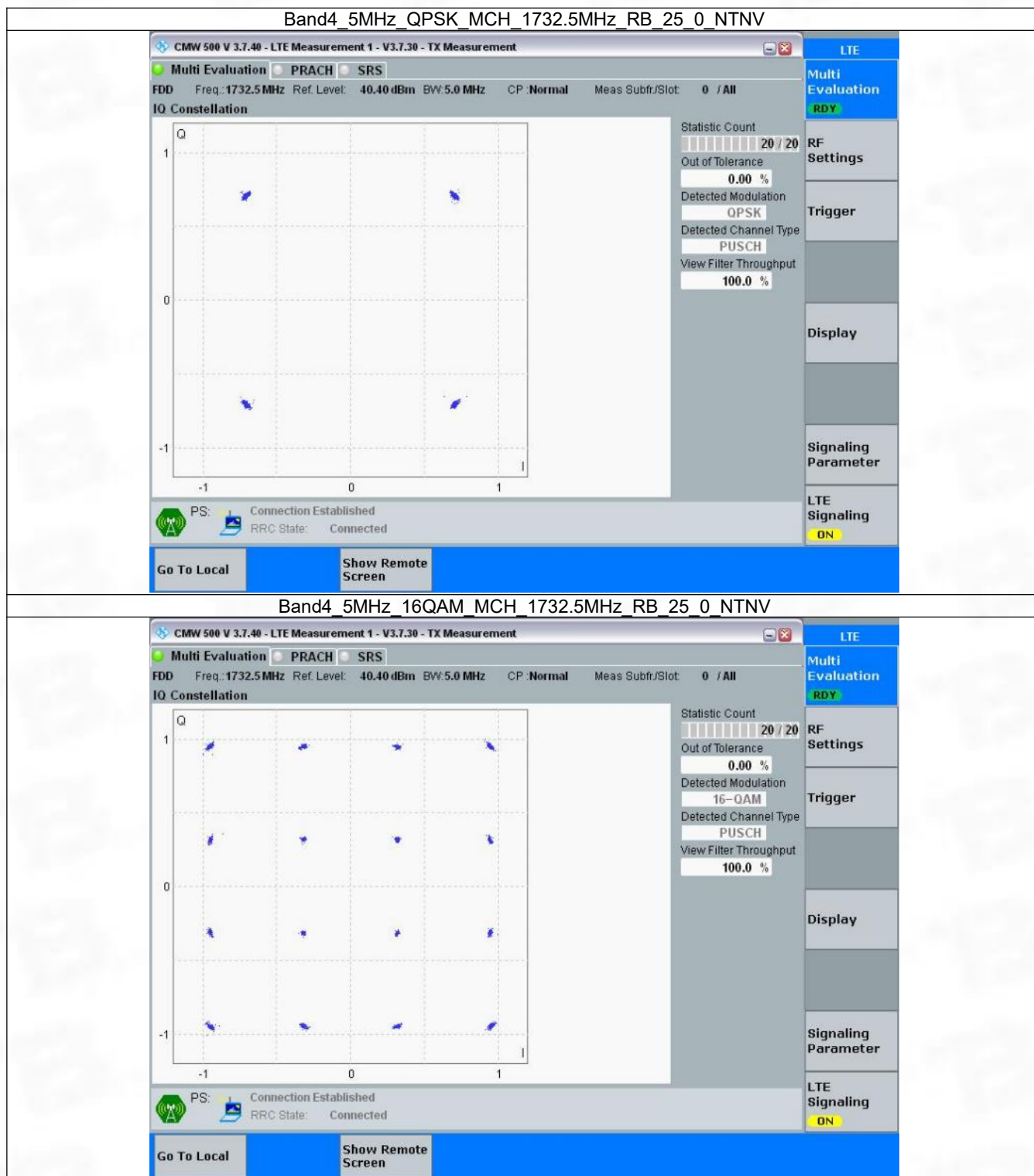
3.2.1 B4_1.4MHz



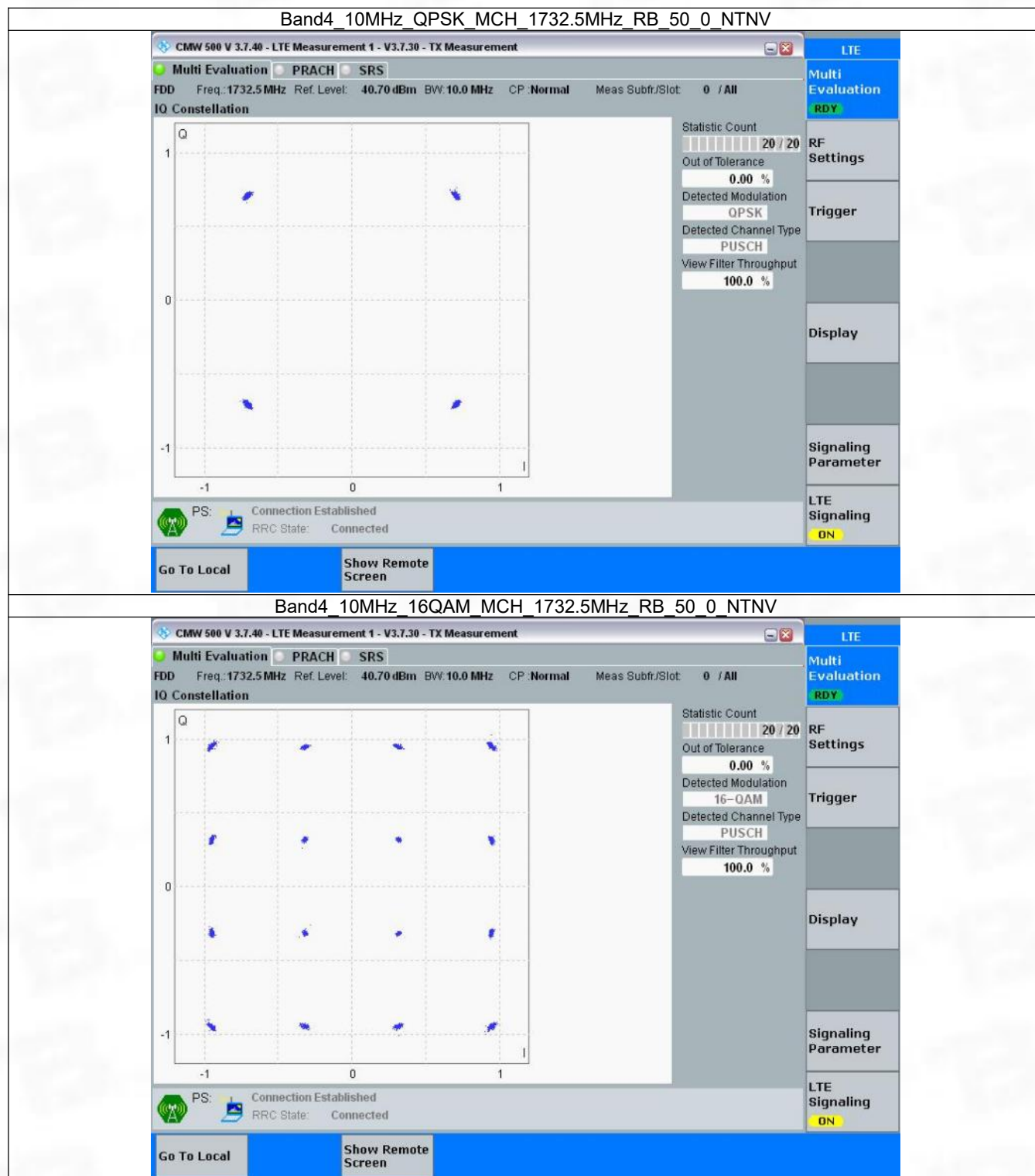
3.2.2 B4_3MHz



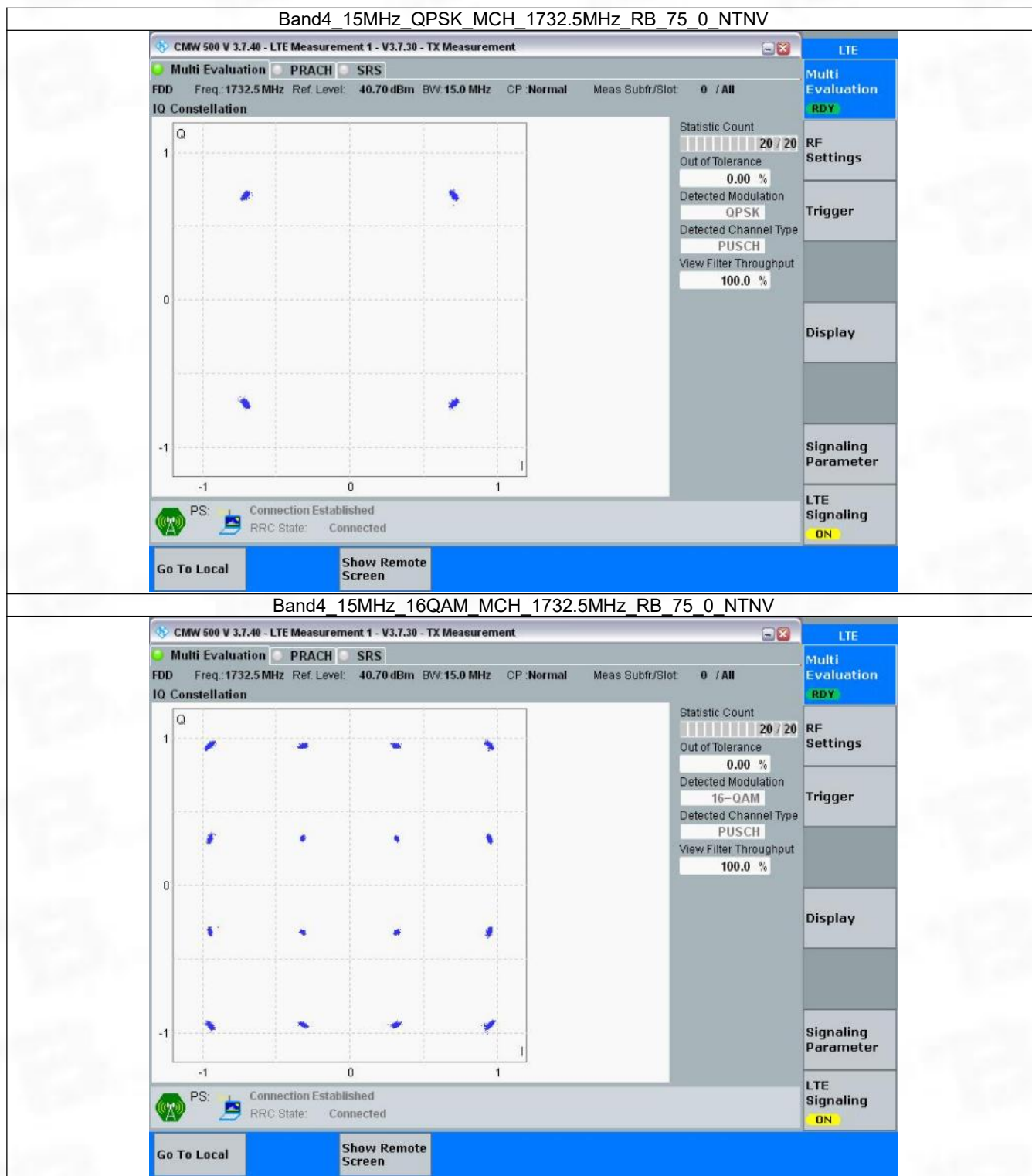
3.2.3 B4_5MHz



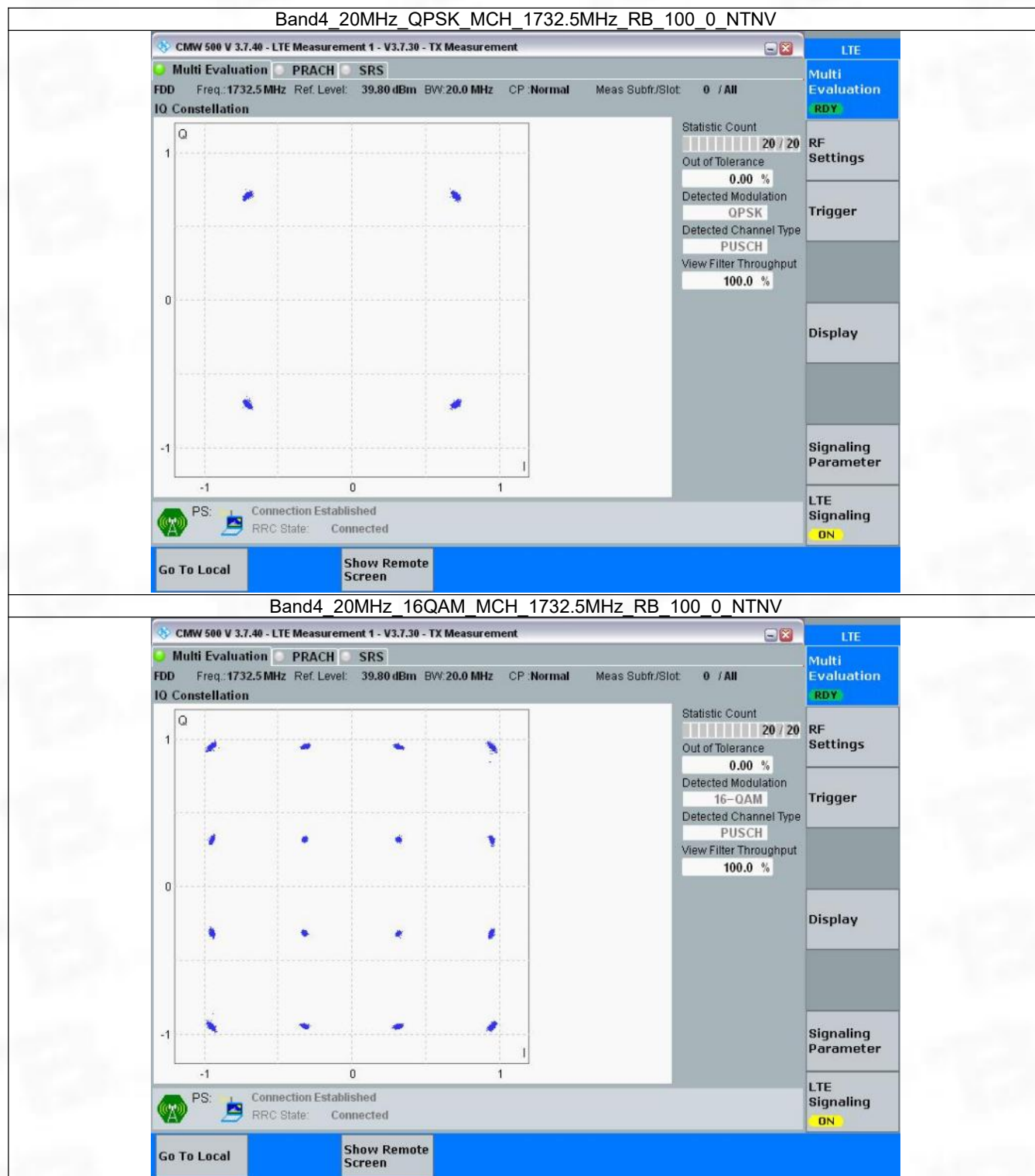
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.112	/	Pass
		1732.5	6	0	1.115	/	Pass
		1754.3	6	0	1.116	/	Pass
	16QAM	1710.7	6	0	1.118	/	Pass
		1732.5	6	0	1.106	/	Pass
		1754.3	6	0	1.121	/	Pass
3	QPSK	1711.5	15	0	2.757	/	Pass
		1732.5	15	0	2.736	/	Pass
		1753.5	15	0	2.772	/	Pass
	16QAM	1711.5	15	0	2.764	/	Pass
		1732.5	15	0	2.752	/	Pass
		1753.5	15	0	2.760	/	Pass
5	QPSK	1712.5	25	0	4.541	/	Pass
		1732.5	25	0	4.556	/	Pass
		1752.5	25	0	4.574	/	Pass
	16QAM	1712.5	25	0	4.531	/	Pass
		1732.5	25	0	4.570	/	Pass
		1752.5	25	0	4.550	/	Pass
10	QPSK	1715	50	0	9.060	/	Pass
		1732.5	50	0	9.037	/	Pass
		1750	50	0	9.081	/	Pass
	16QAM	1715	50	0	9.086	/	Pass
		1732.5	50	0	9.058	/	Pass
		1750	50	0	9.066	/	Pass
15	QPSK	1717.5	75	0	13.608	/	Pass
		1732.5	75	0	13.593	/	Pass
		1747.5	75	0	13.625	/	Pass
	16QAM	1717.5	75	0	13.602	/	Pass
		1732.5	75	0	13.616	/	Pass
		1747.5	75	0	13.585	/	Pass
20	QPSK	1720	100	0	18.153	/	Pass
		1732.5	100	0	18.124	/	Pass
		1745	100	0	18.133	/	Pass
	16QAM	1720	100	0	18.133	/	Pass
		1732.5	100	0	18.146	/	Pass
		1745	100	0	18.259	/	Pass

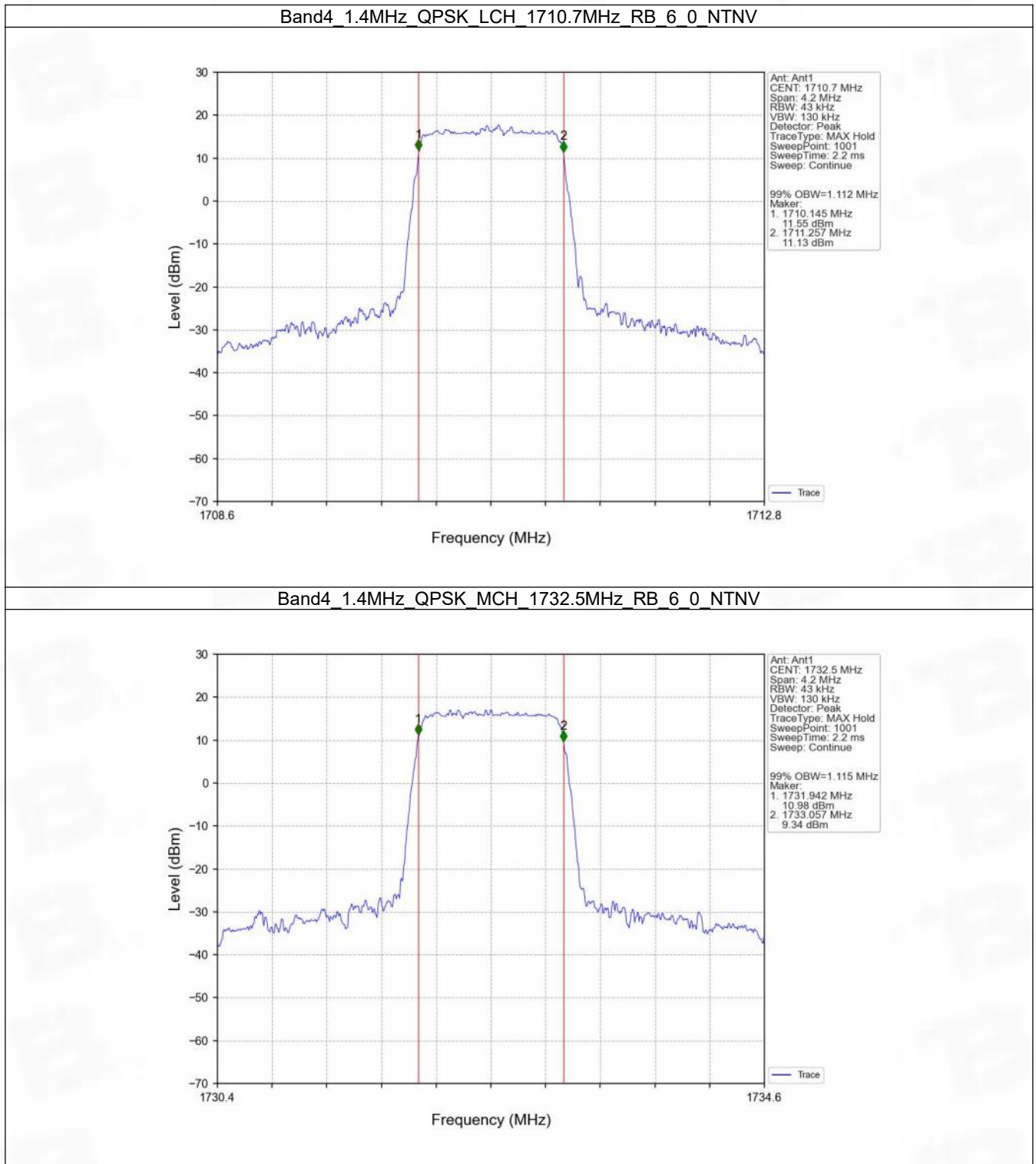
4.1.2 Band4_XDB

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.268	/	Pass
		1732.5	6	0	1.274	/	Pass
		1754.3	6	0	1.274	/	Pass

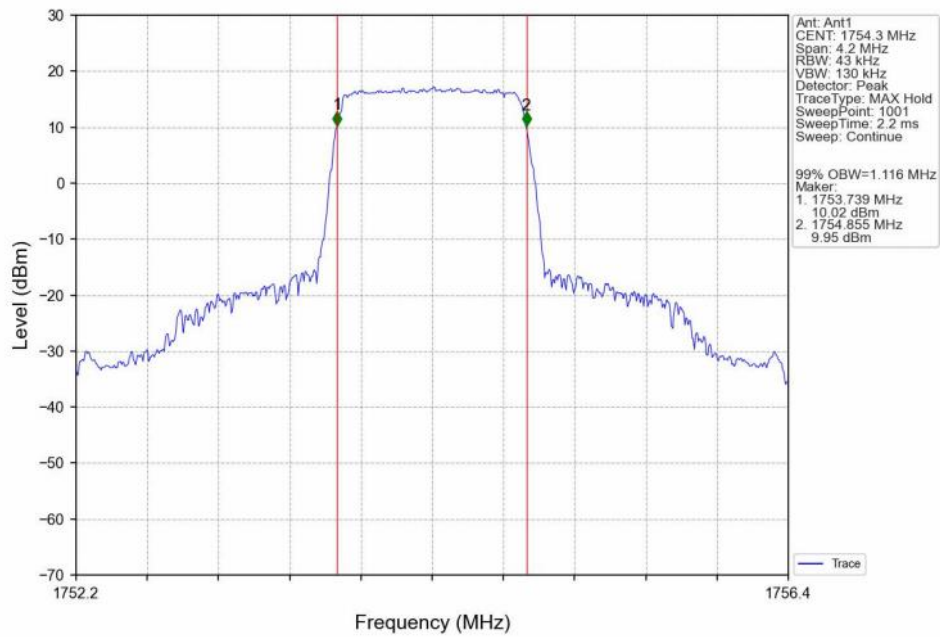
	16QAM	1710.7	6	0	1.283	/	Pass
		1732.5	6	0	1.261	/	Pass
		1754.3	6	0	1.279	/	Pass
3	QPSK	1711.5	15	0	3.080	/	Pass
		1732.5	15	0	3.074	/	Pass
		1753.5	15	0	3.111	/	Pass
	16QAM	1711.5	15	0	3.105	/	Pass
		1732.5	15	0	3.097	/	Pass
		1753.5	15	0	3.098	/	Pass
5	QPSK	1712.5	25	0	5.031	/	Pass
		1732.5	25	0	5.080	/	Pass
		1752.5	25	0	5.043	/	Pass
	16QAM	1712.5	25	0	4.928	/	Pass
		1732.5	25	0	5.053	/	Pass
		1752.5	25	0	5.072	/	Pass
10	QPSK	1715	50	0	10.065	/	Pass
		1732.5	50	0	9.996	/	Pass
		1750	50	0	10.067	/	Pass
	16QAM	1715	50	0	10.115	/	Pass
		1732.5	50	0	10.080	/	Pass
		1750	50	0	10.095	/	Pass
15	QPSK	1717.5	75	0	15.256	/	Pass
		1732.5	75	0	15.151	/	Pass
		1747.5	75	0	15.177	/	Pass
	16QAM	1717.5	75	0	15.234	/	Pass
		1732.5	75	0	15.216	/	Pass
		1747.5	75	0	15.123	/	Pass
20	QPSK	1720	100	0	20.097	/	Pass
		1732.5	100	0	20.046	/	Pass
		1745	100	0	19.979	/	Pass
	16QAM	1720	100	0	20.026	/	Pass
		1732.5	100	0	20.025	/	Pass
		1745	100	0	20.100	/	Pass

4.2 Test Graph

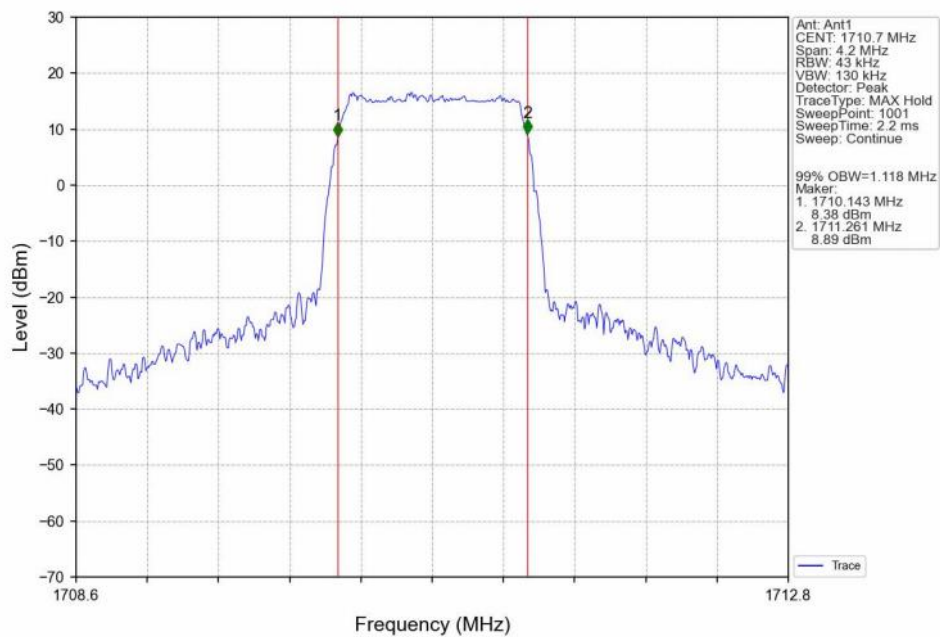
4.2.1 Band4_OBW



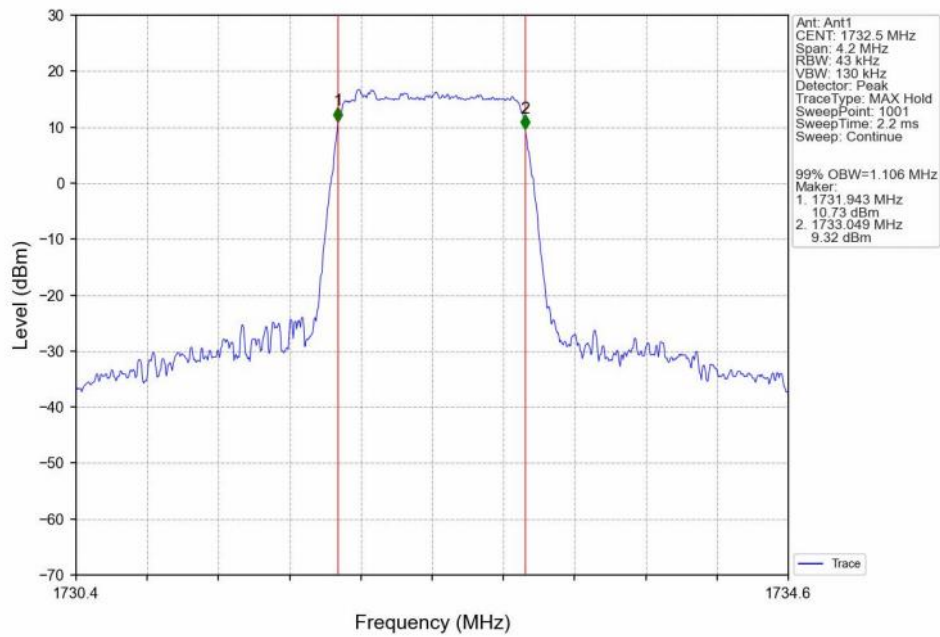
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



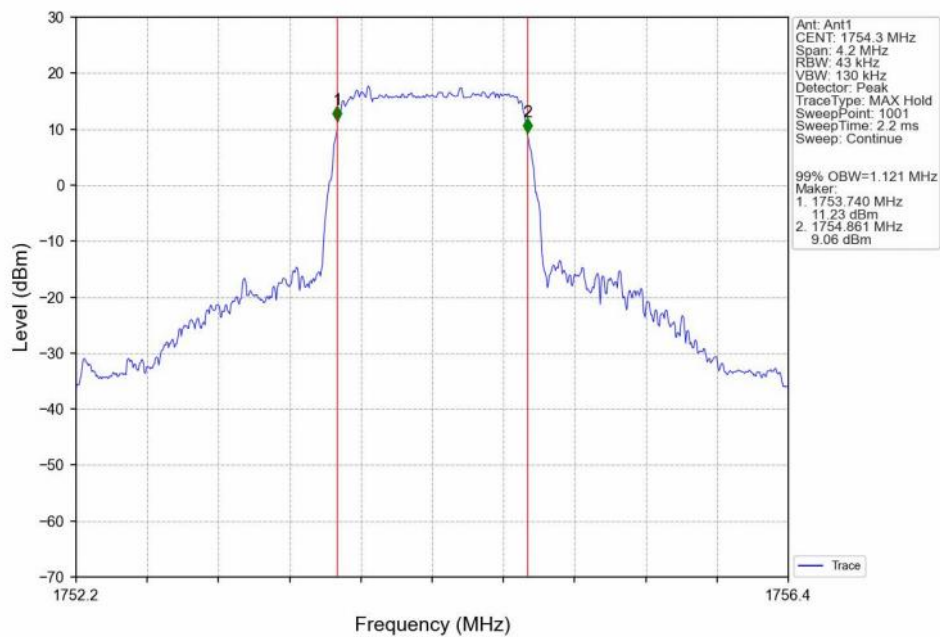
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



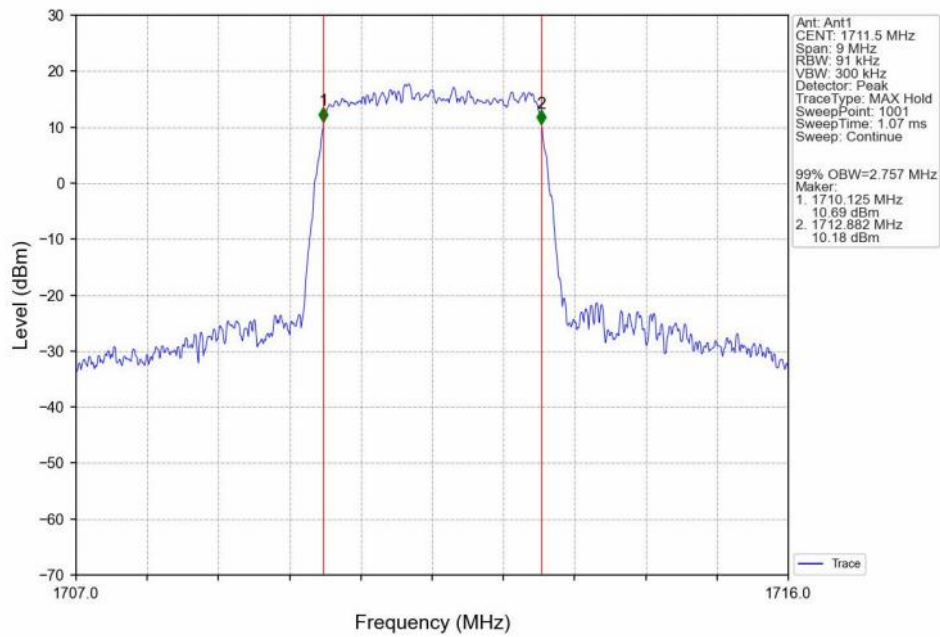
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



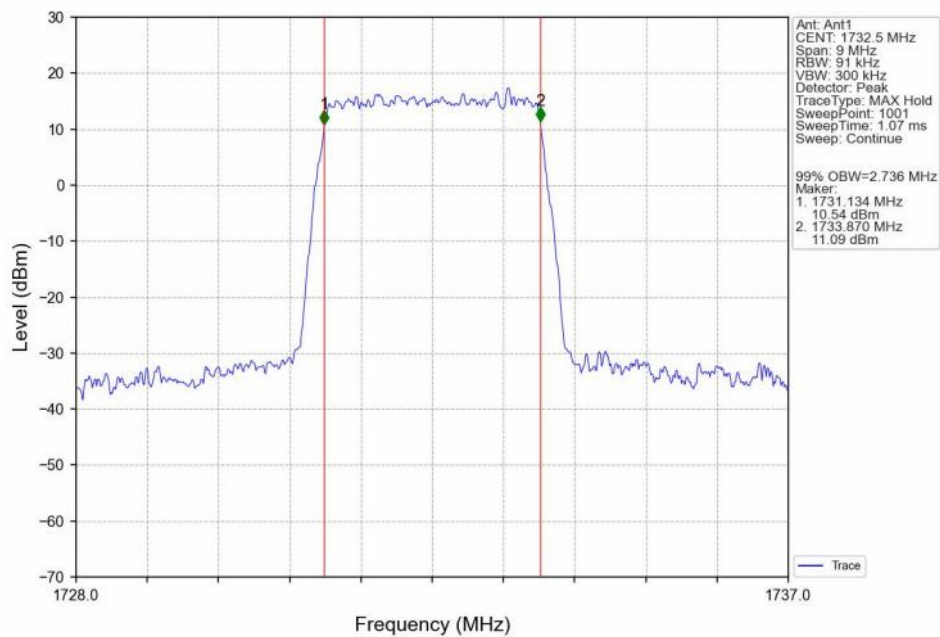
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



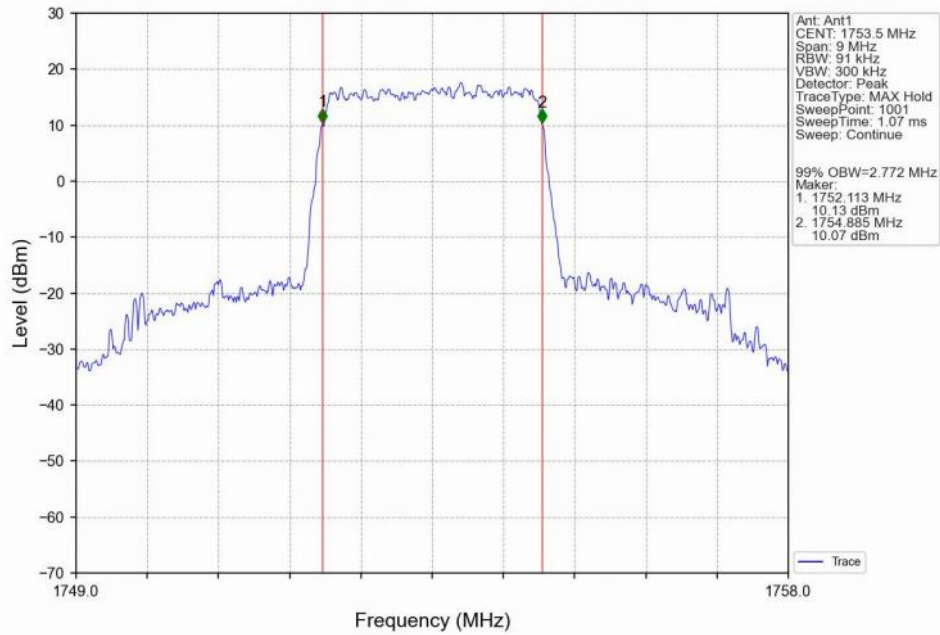
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



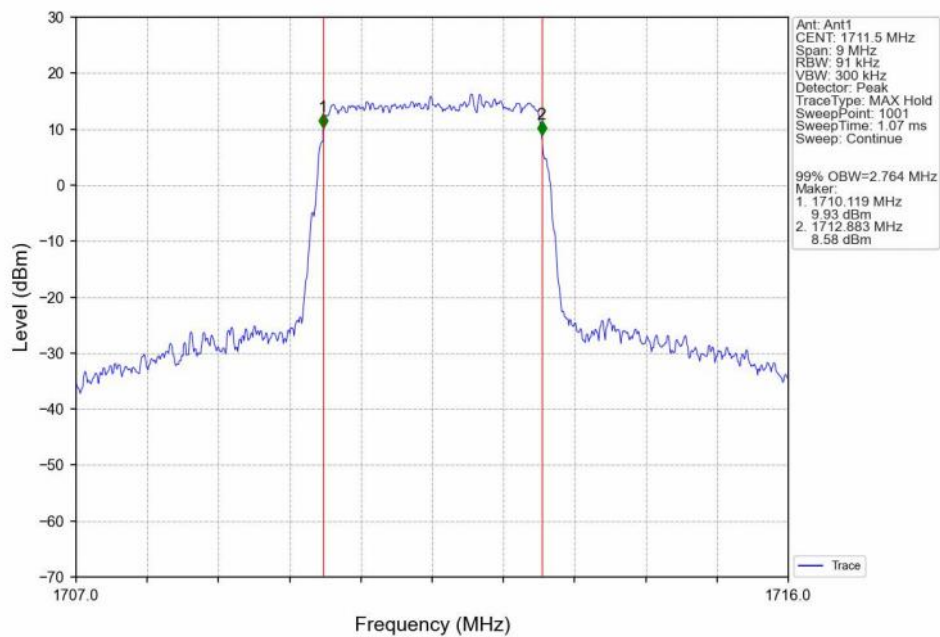
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



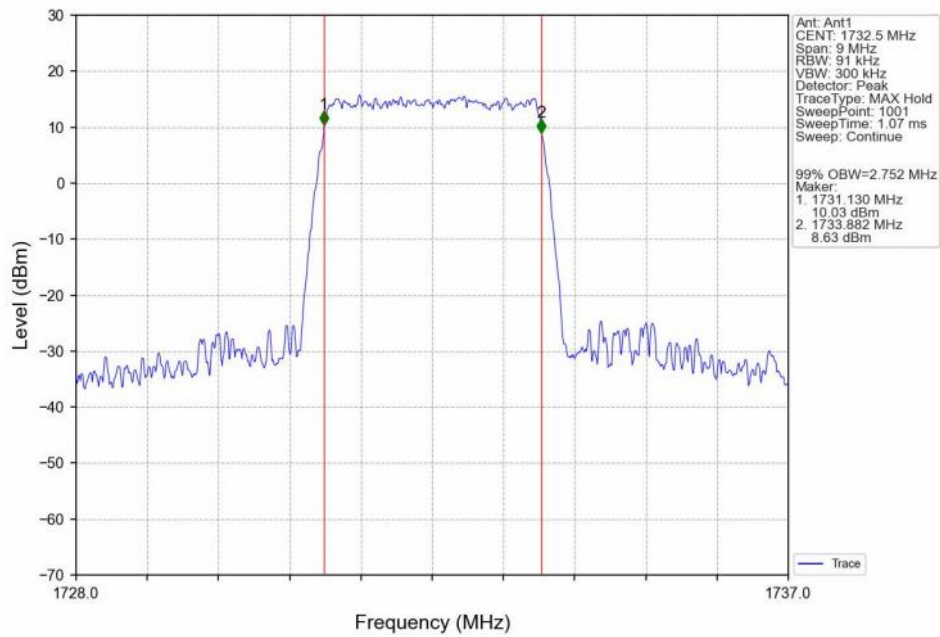
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



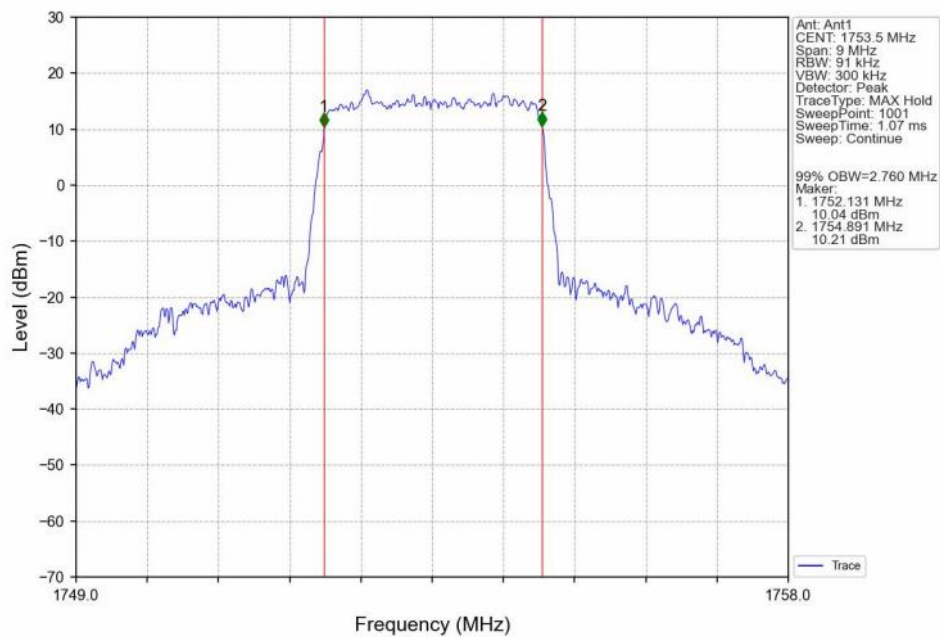
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



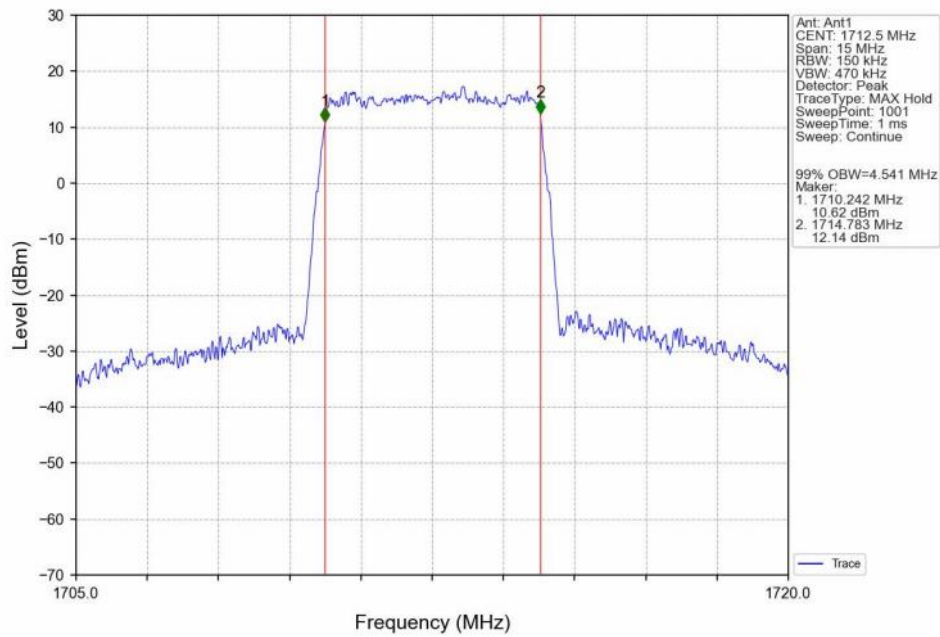
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



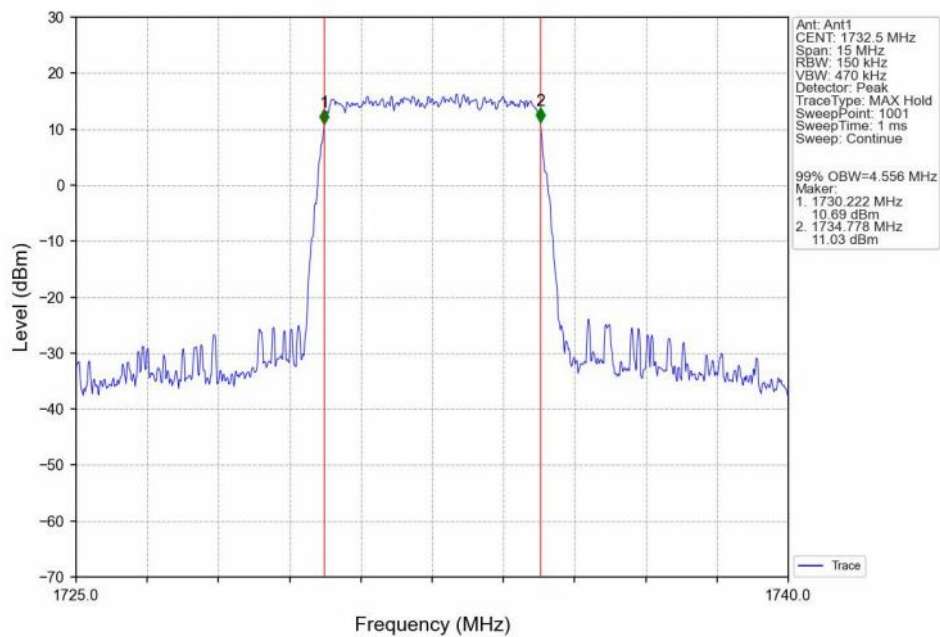
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



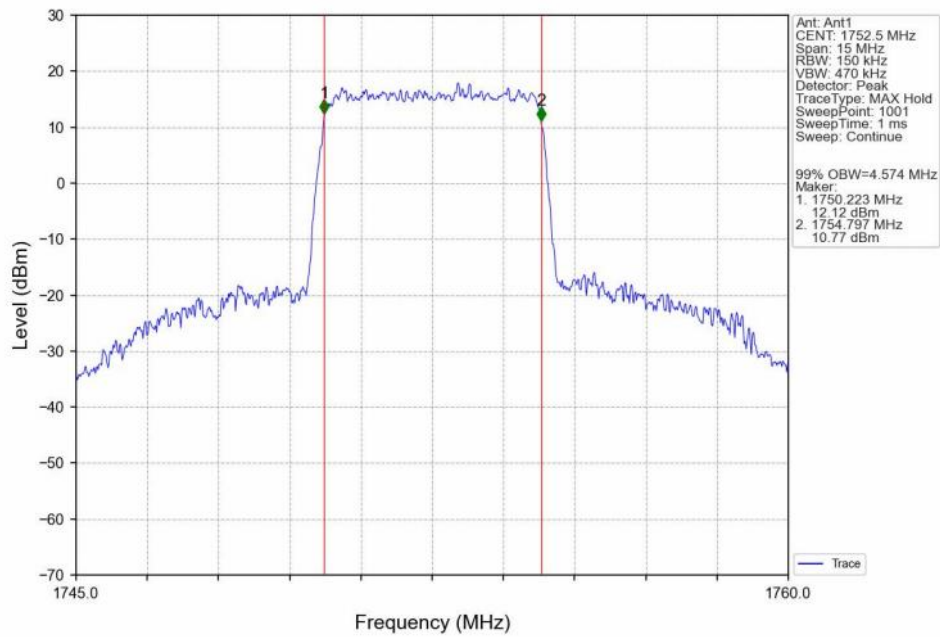
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



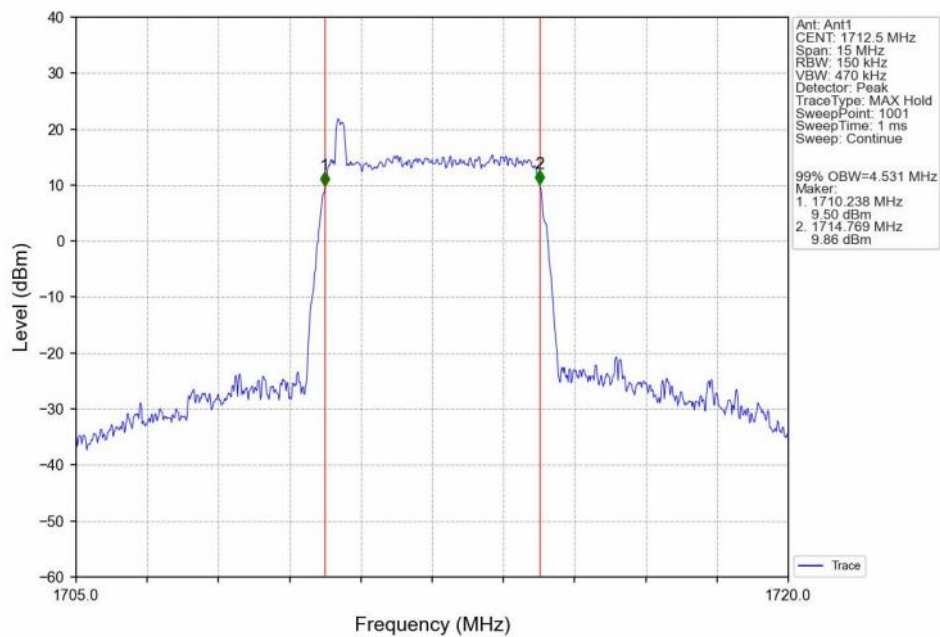
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



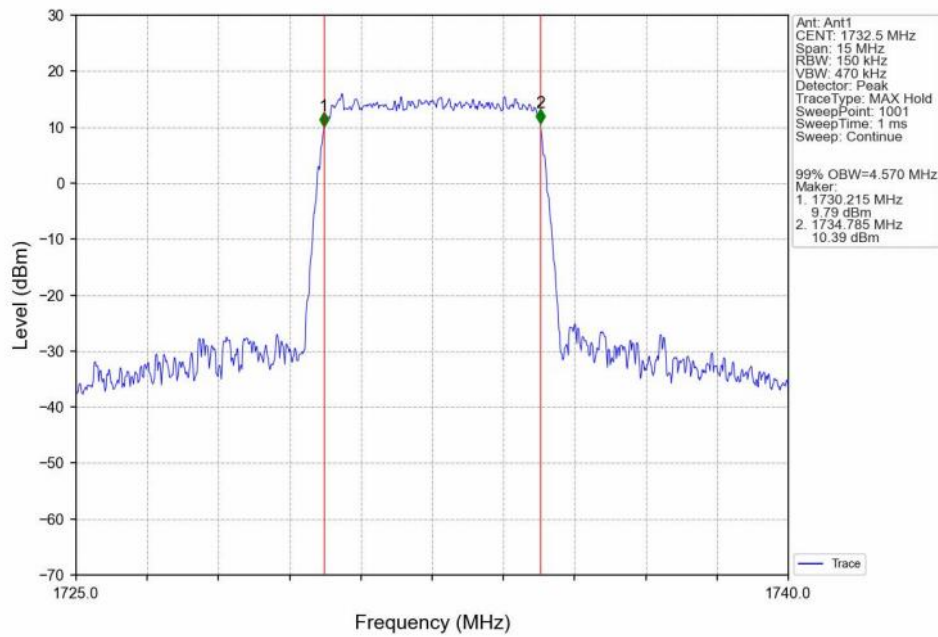
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



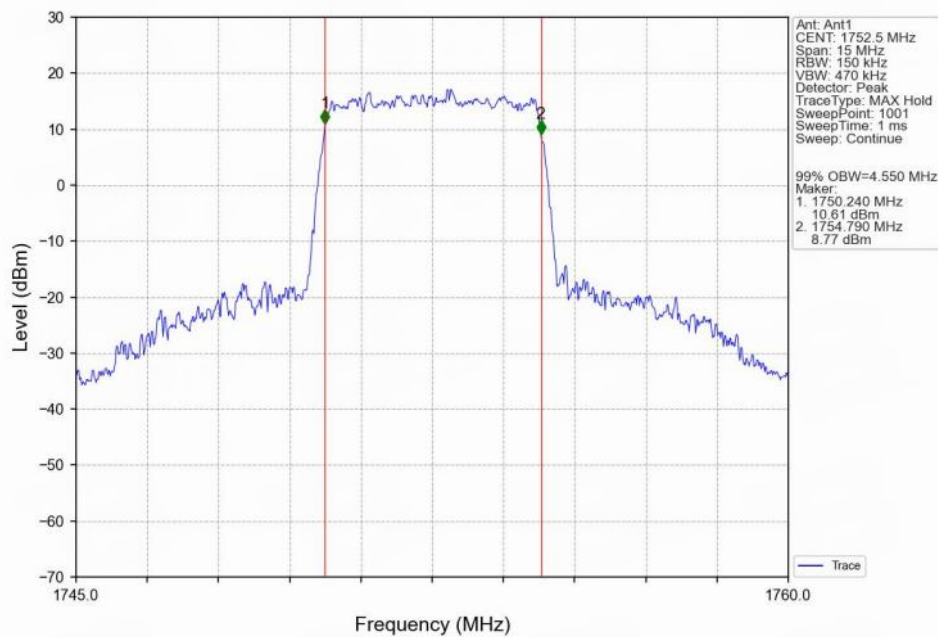
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



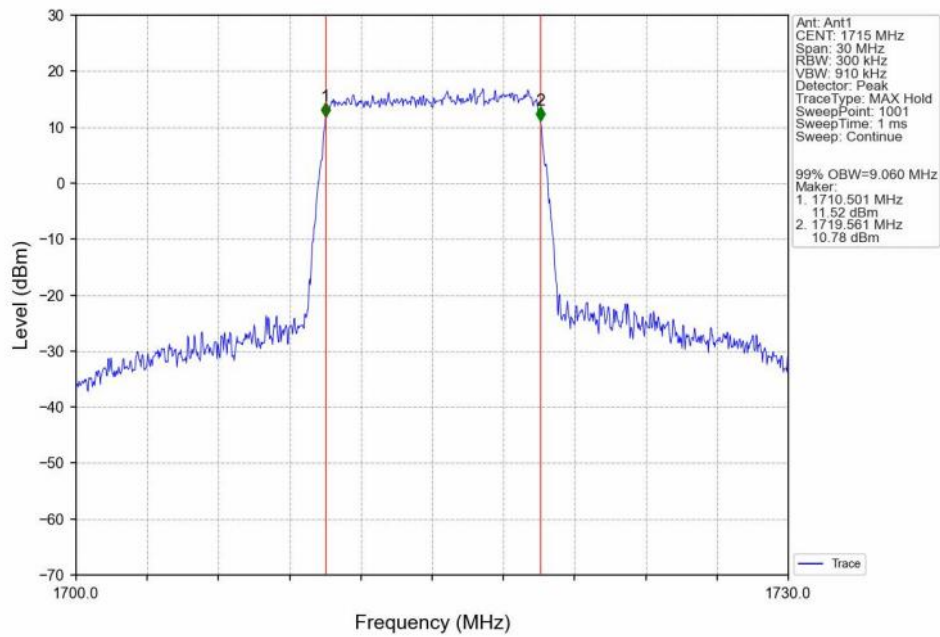
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



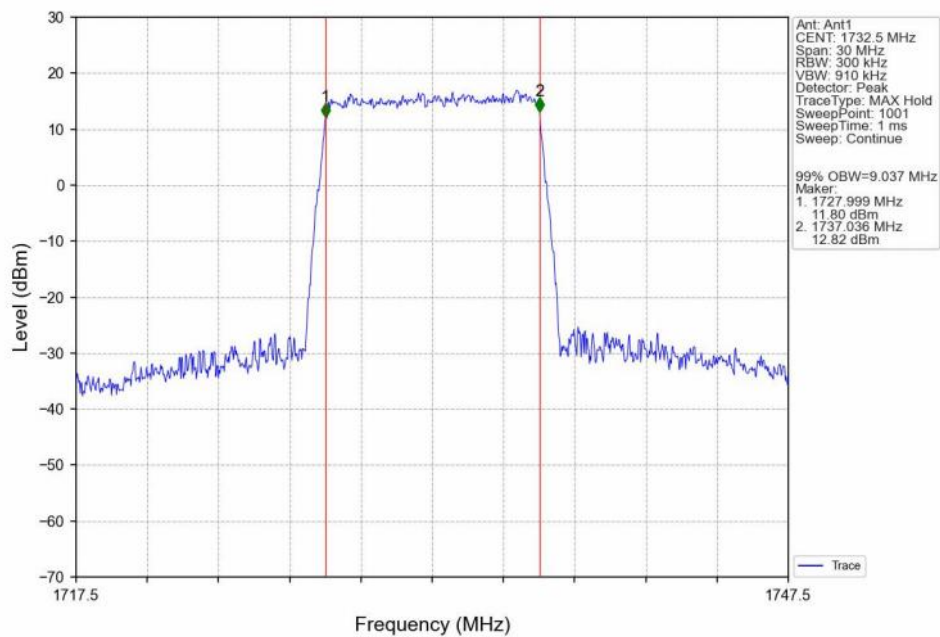
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



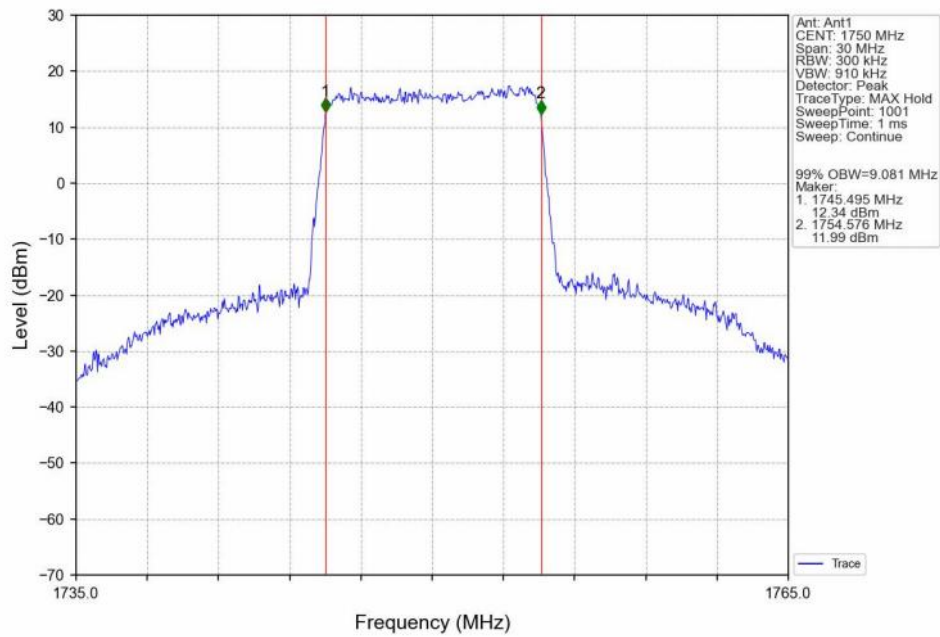
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



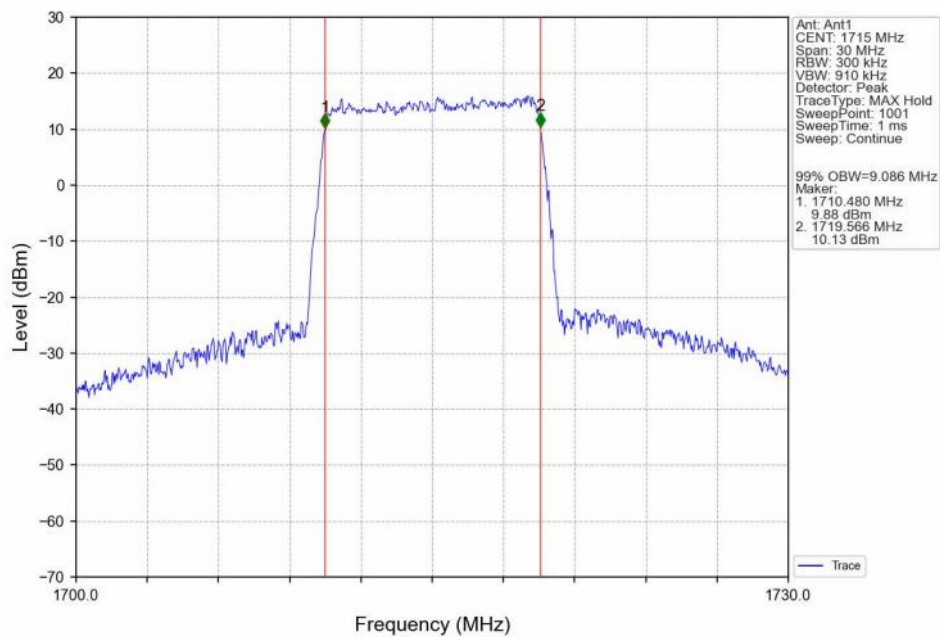
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



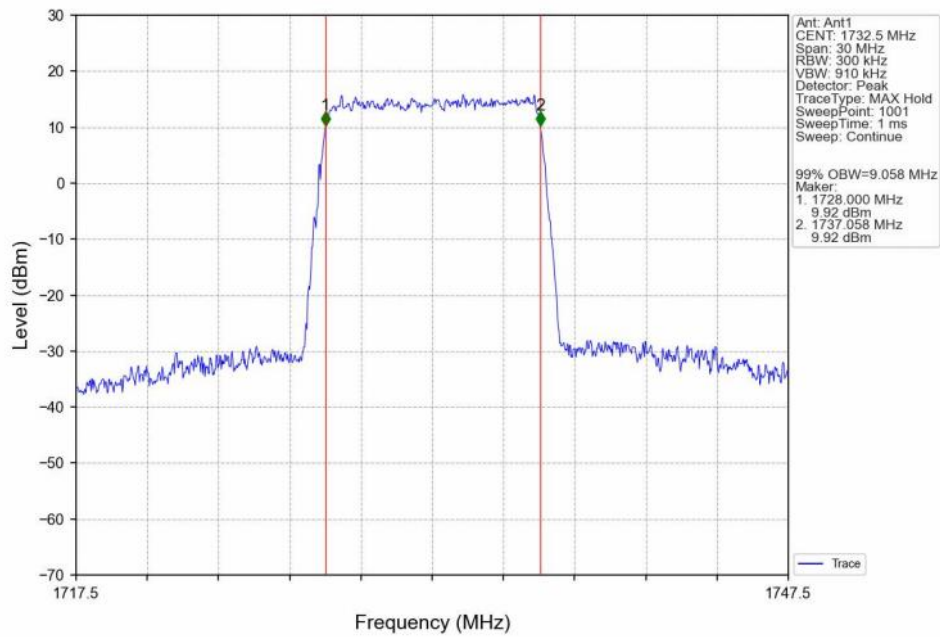
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



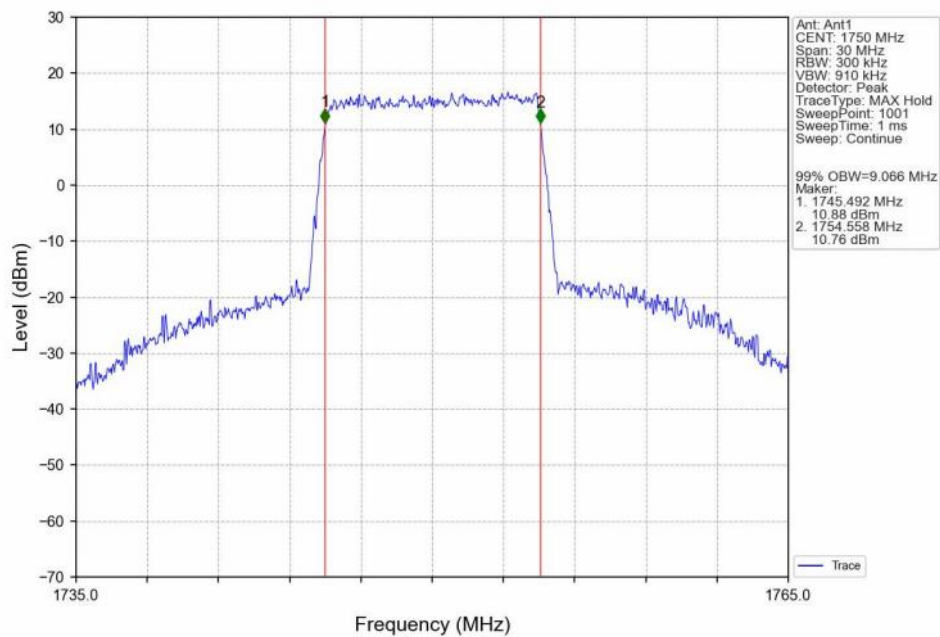
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



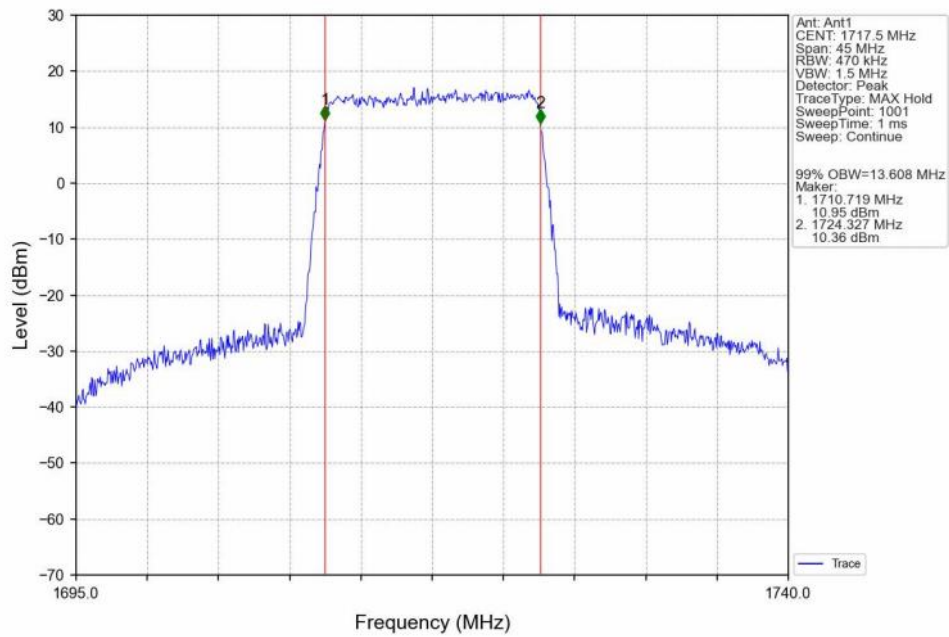
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



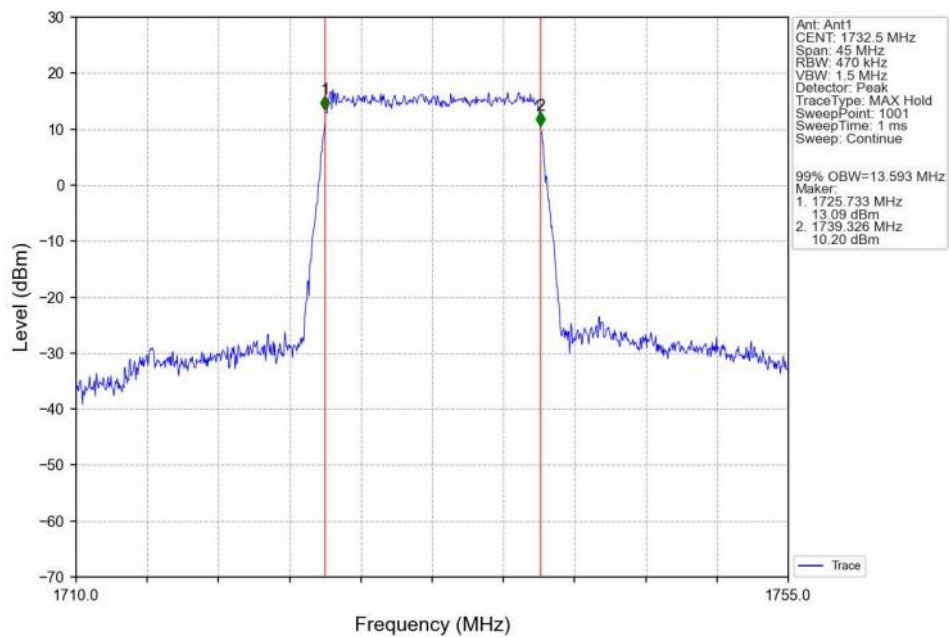
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



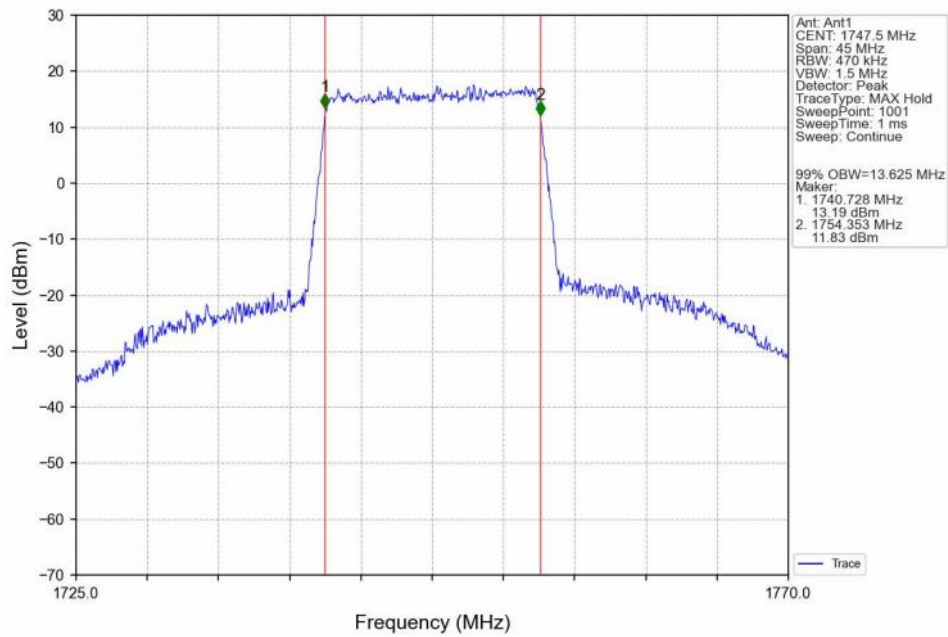
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



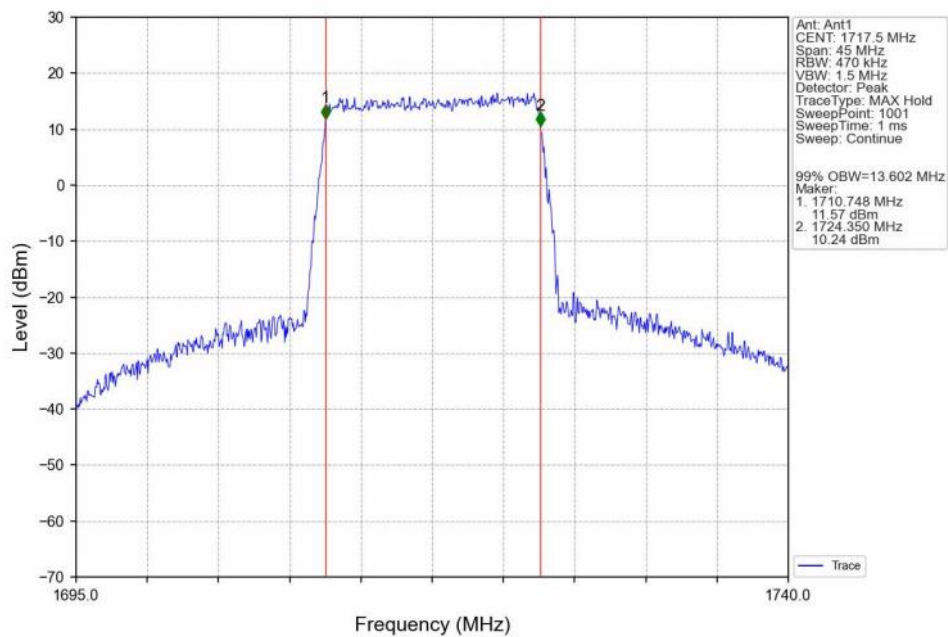
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



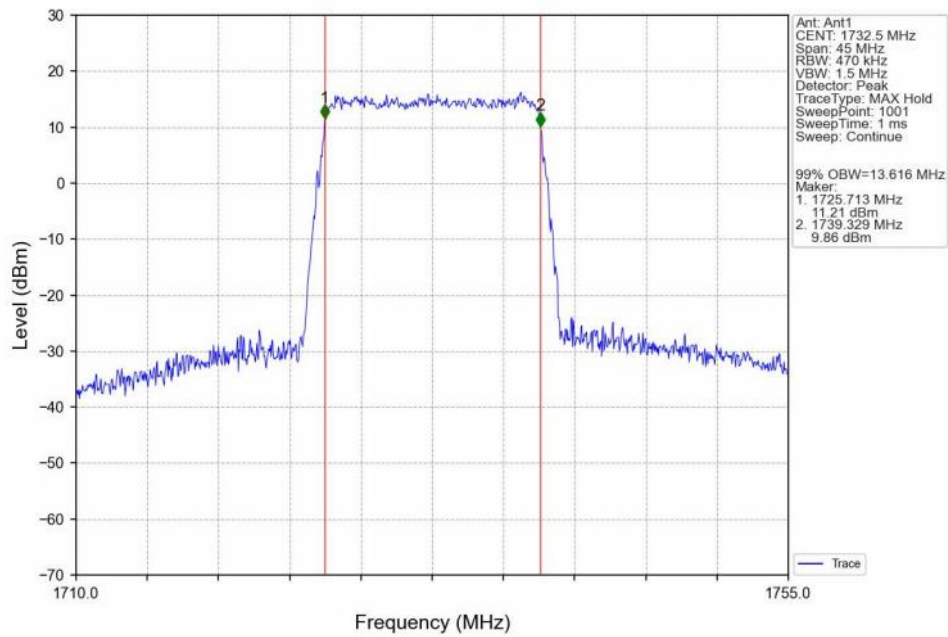
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



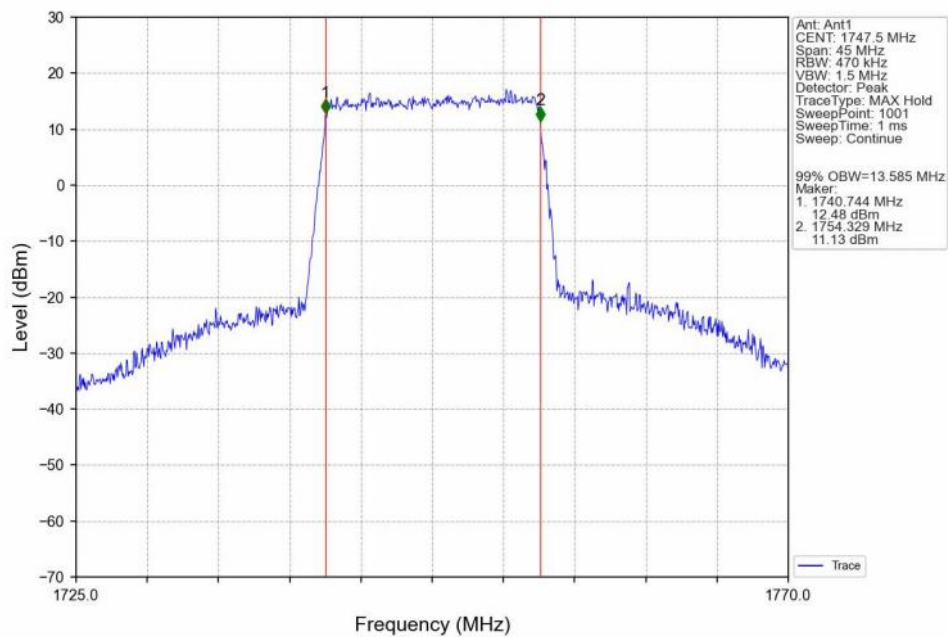
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



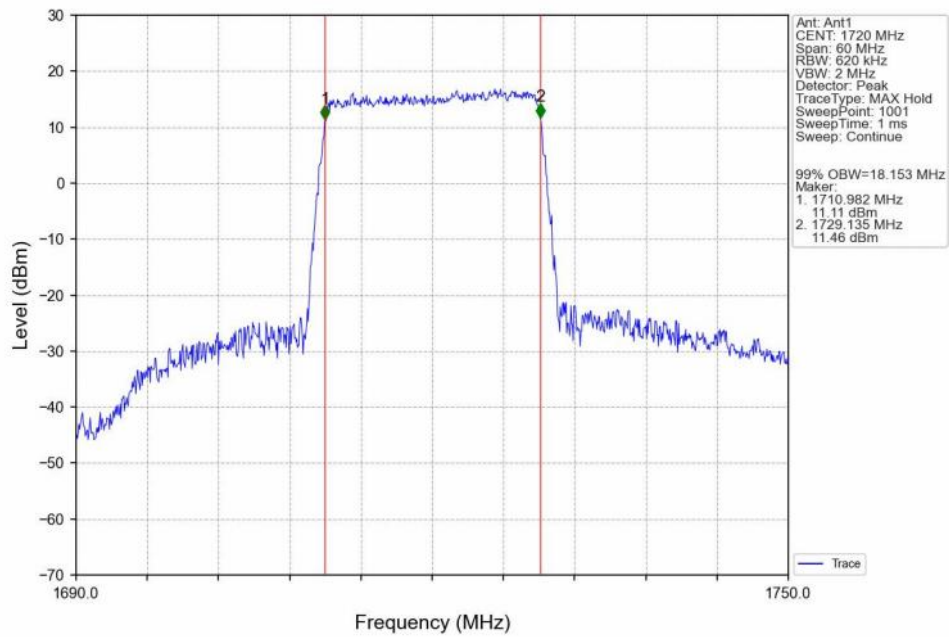
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



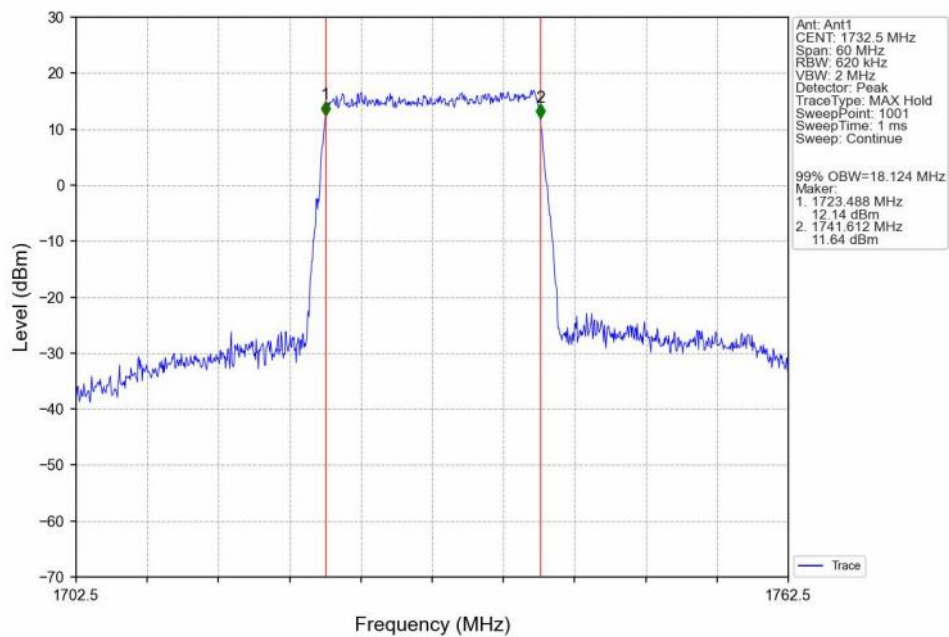
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



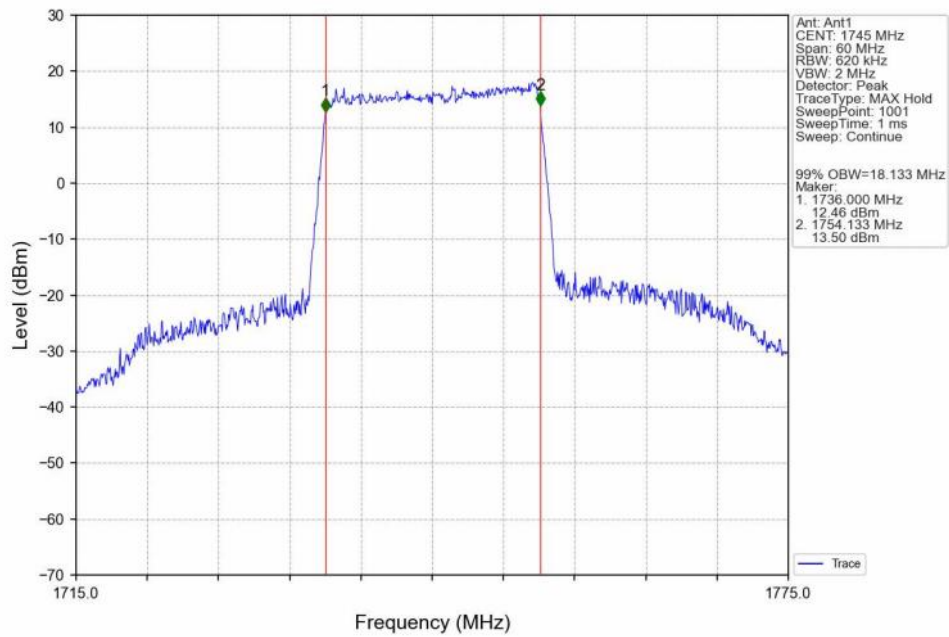
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



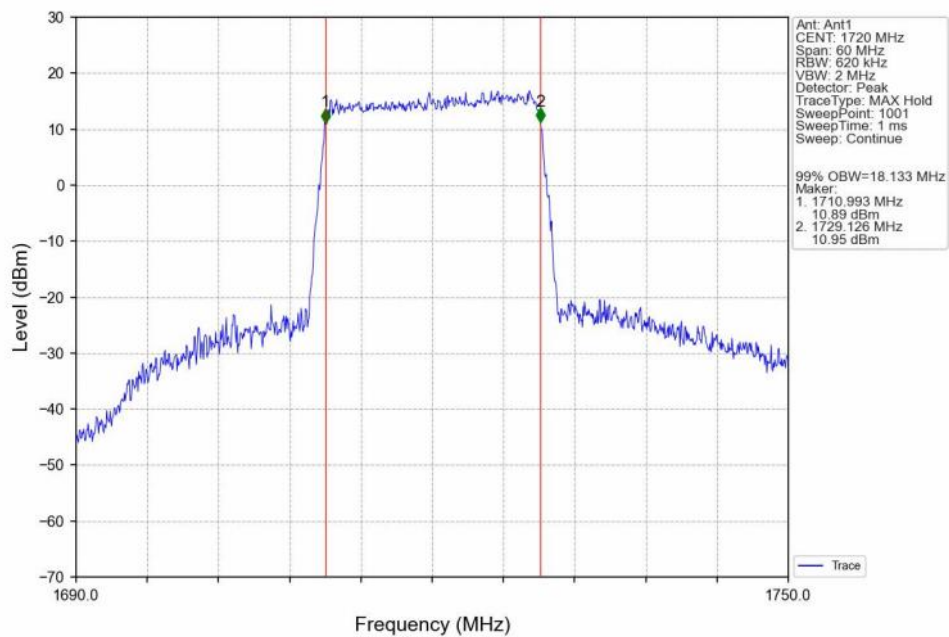
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



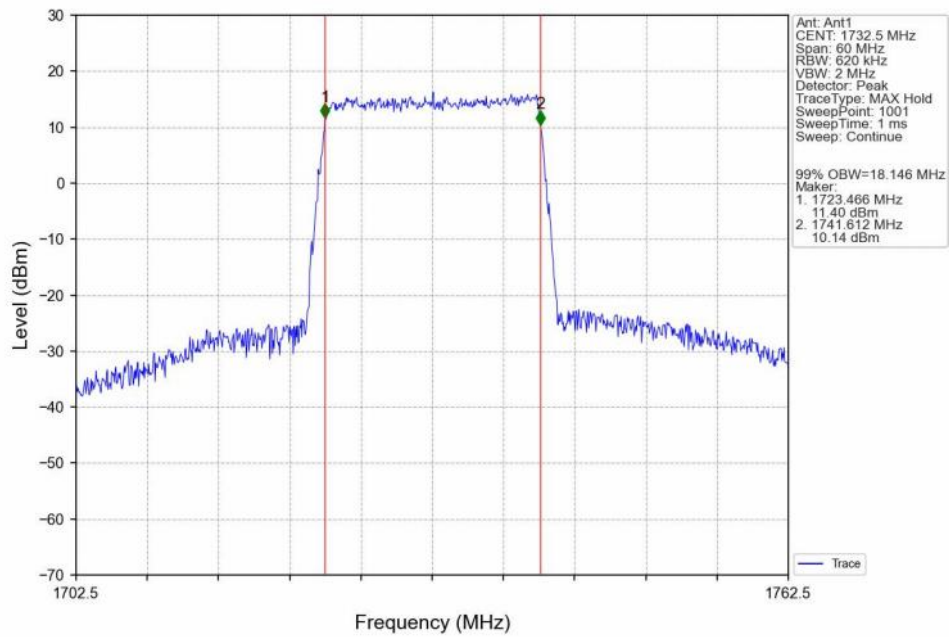
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



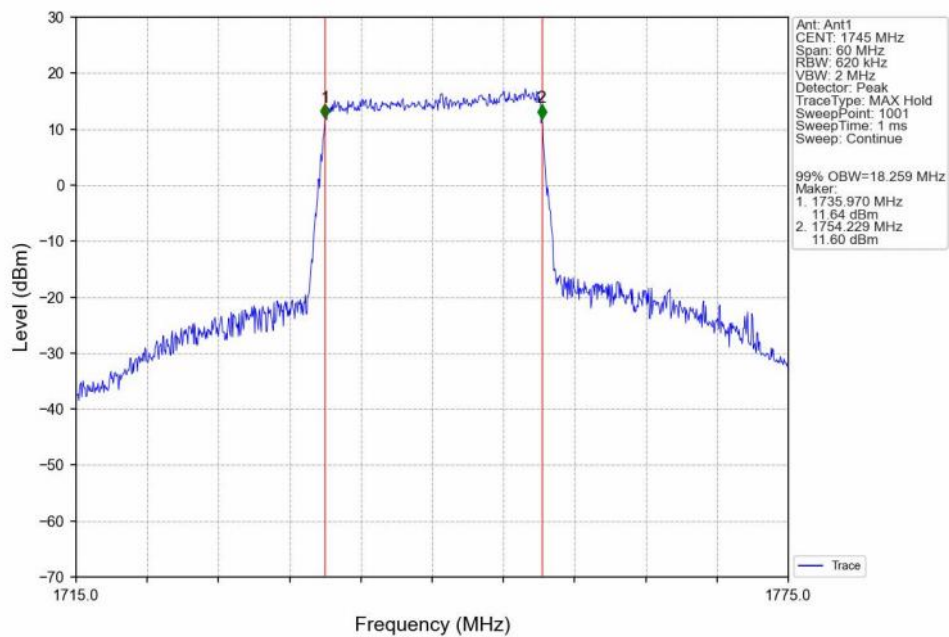
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



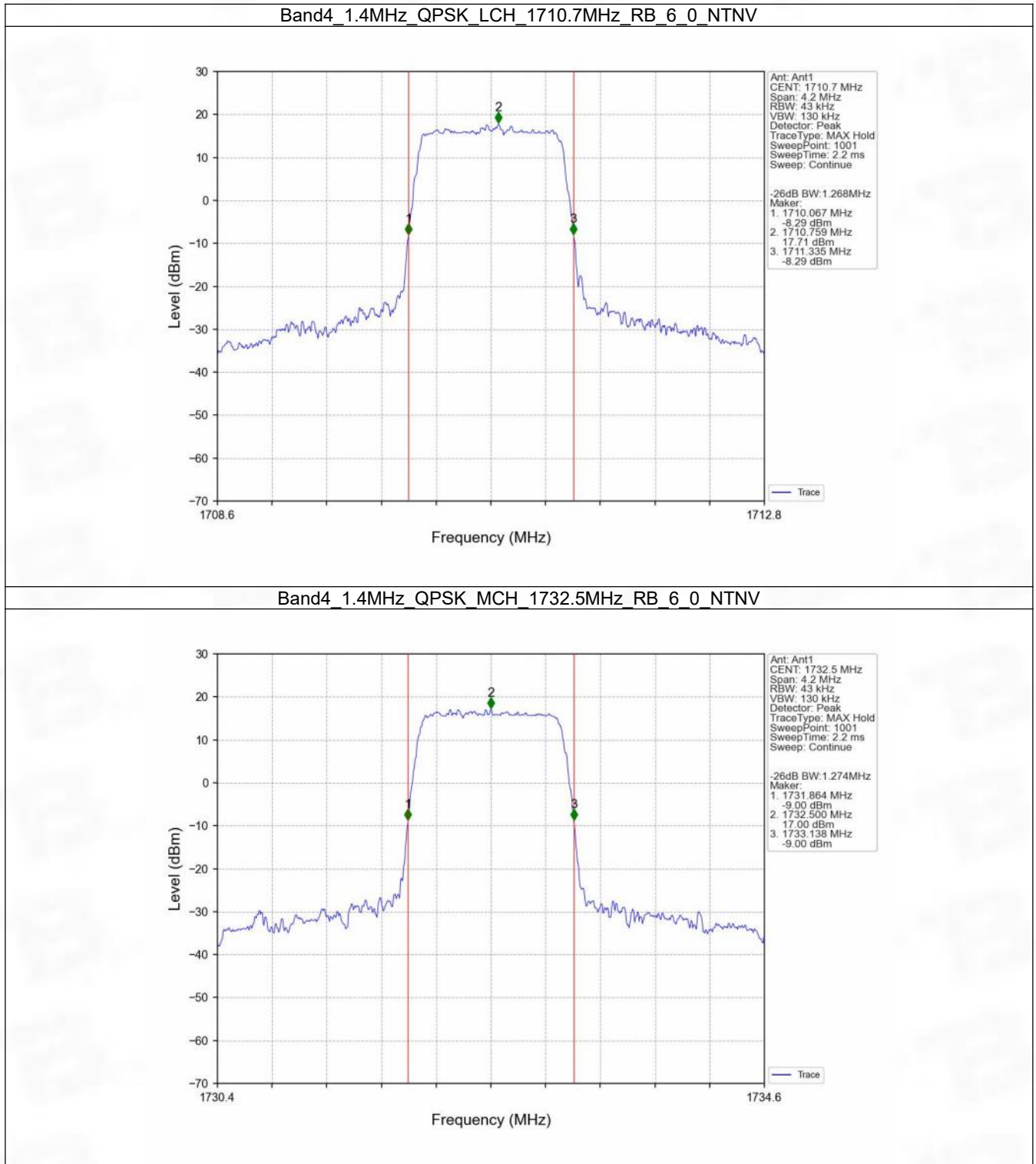
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



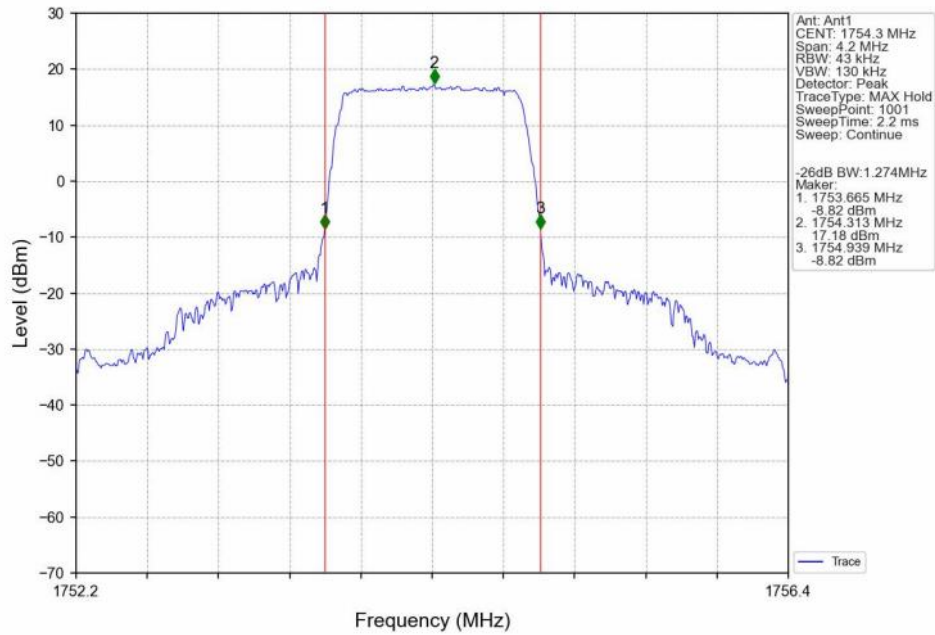
Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



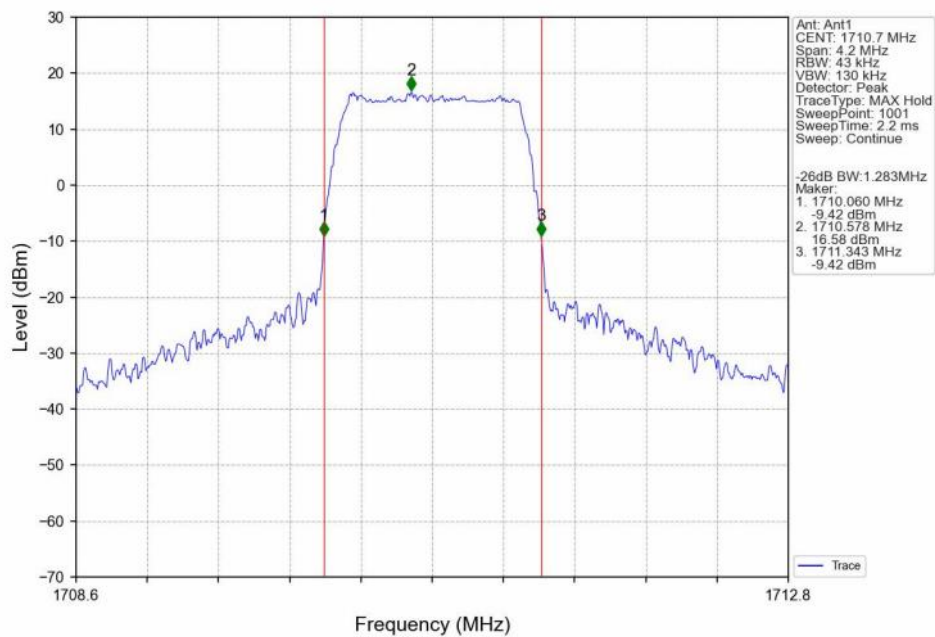
4.2.2 Band4_XDB



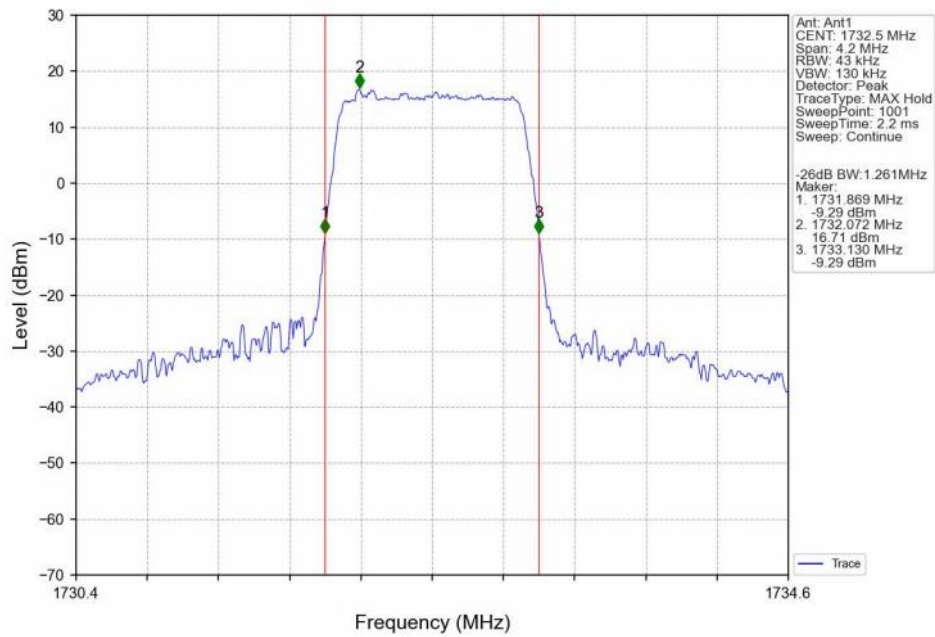
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



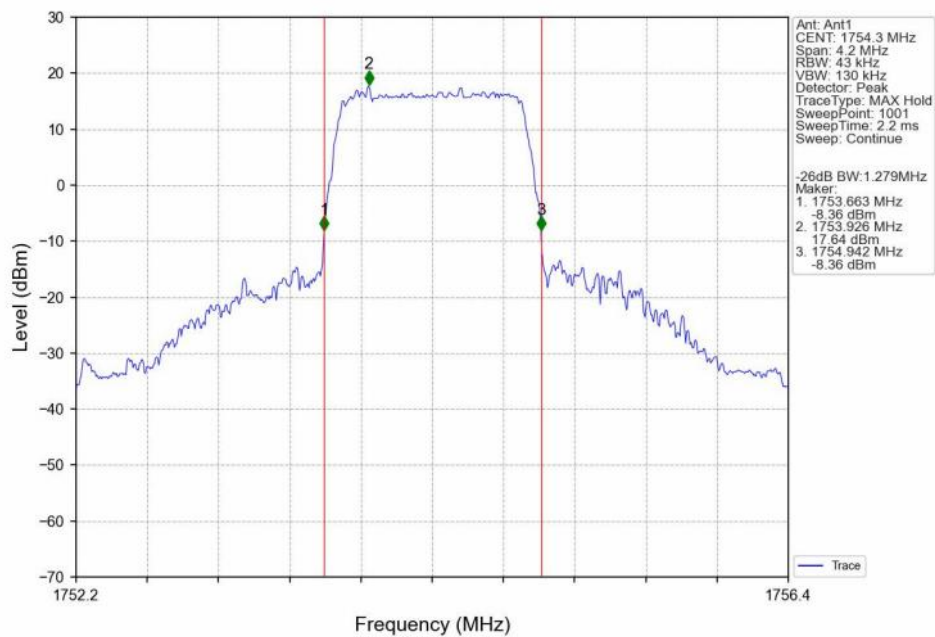
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



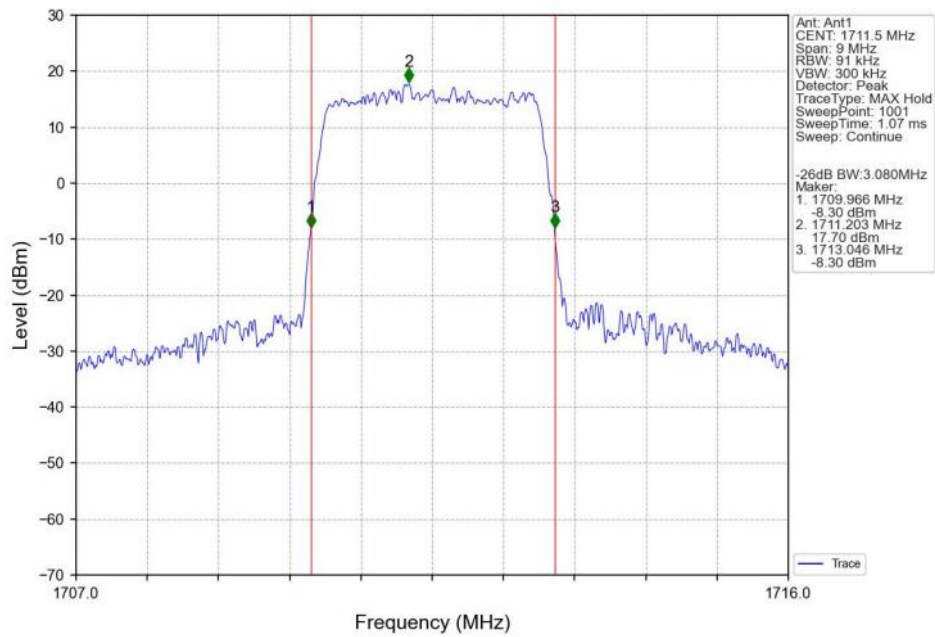
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



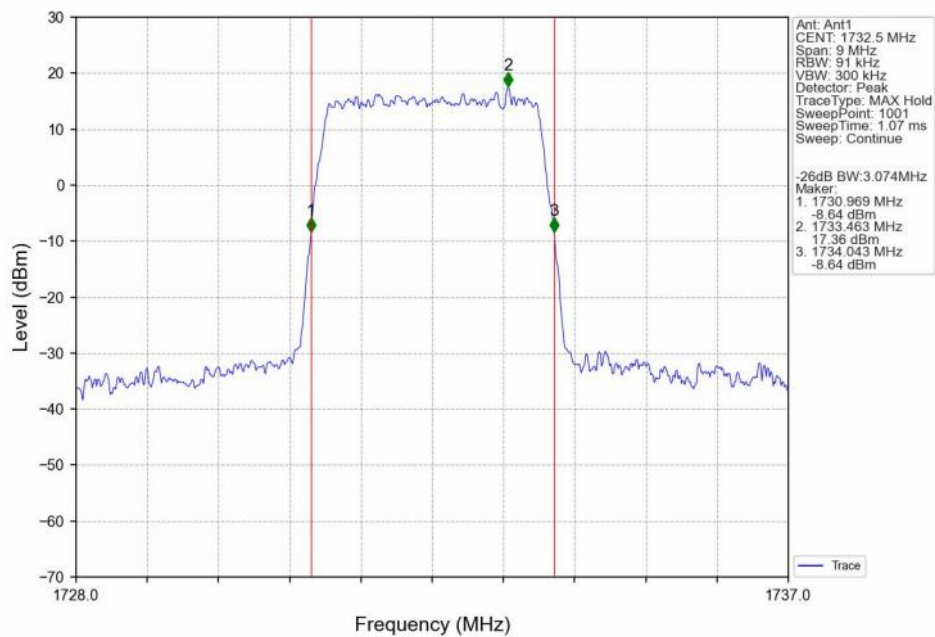
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



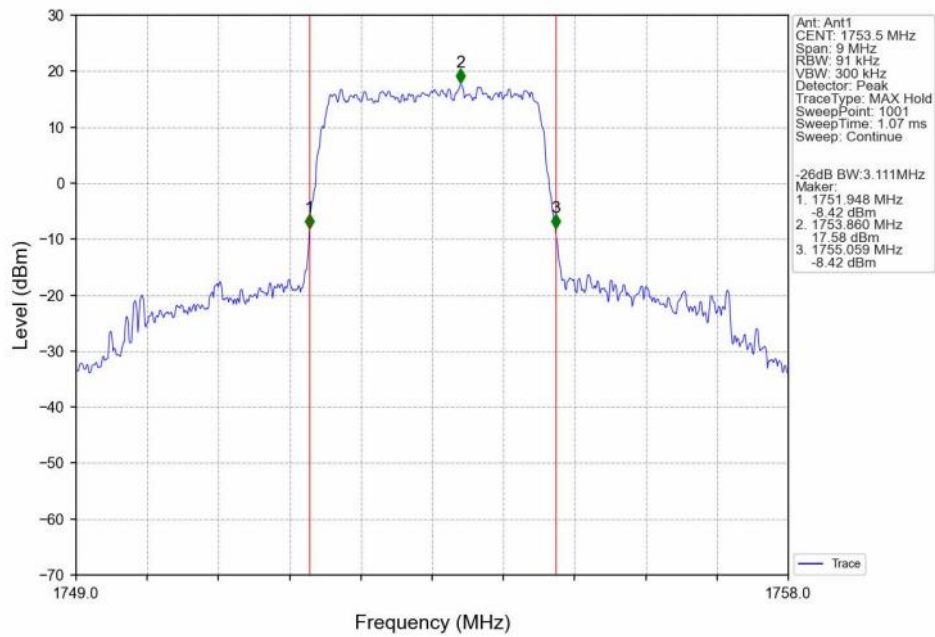
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



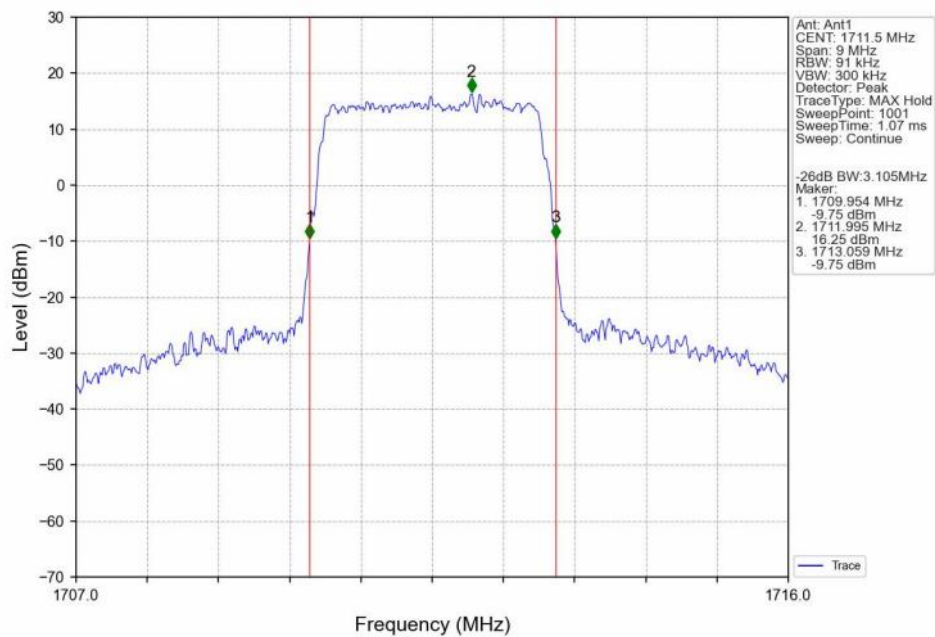
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



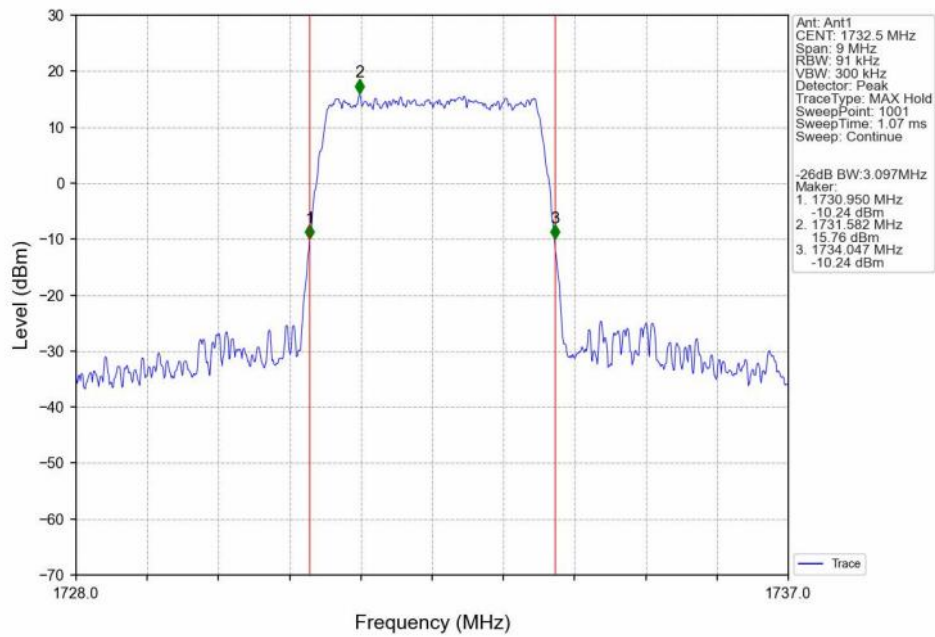
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



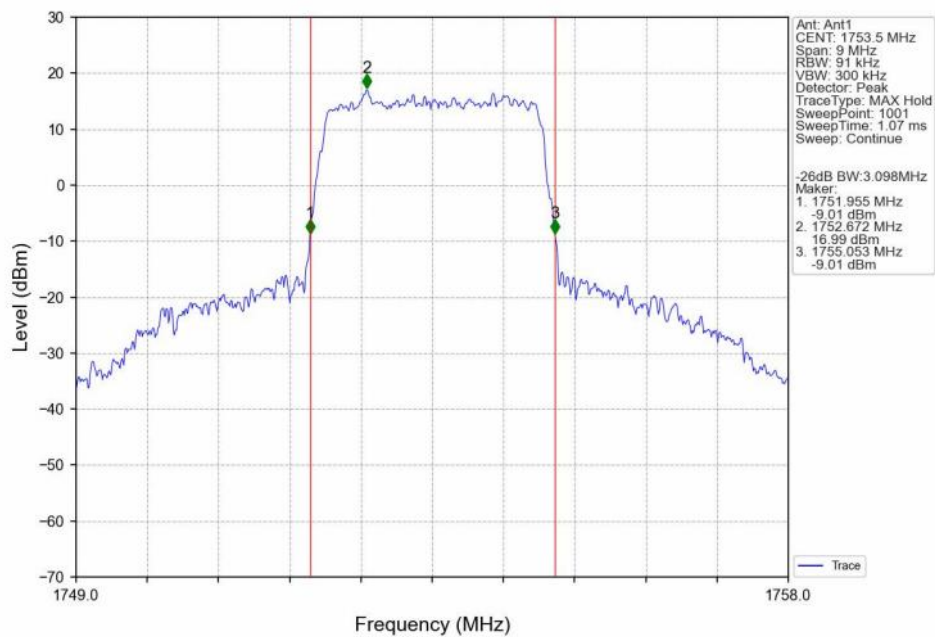
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



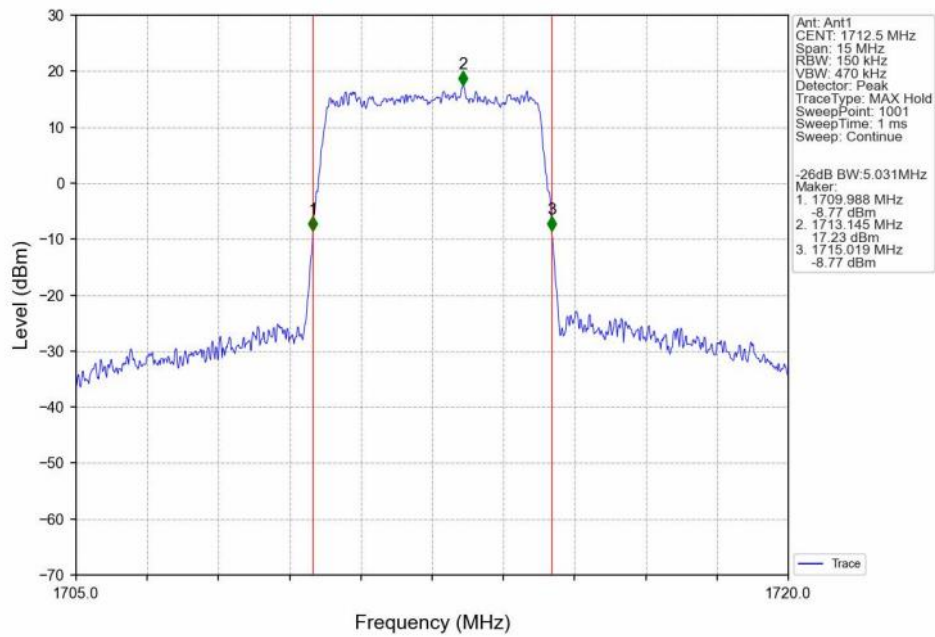
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



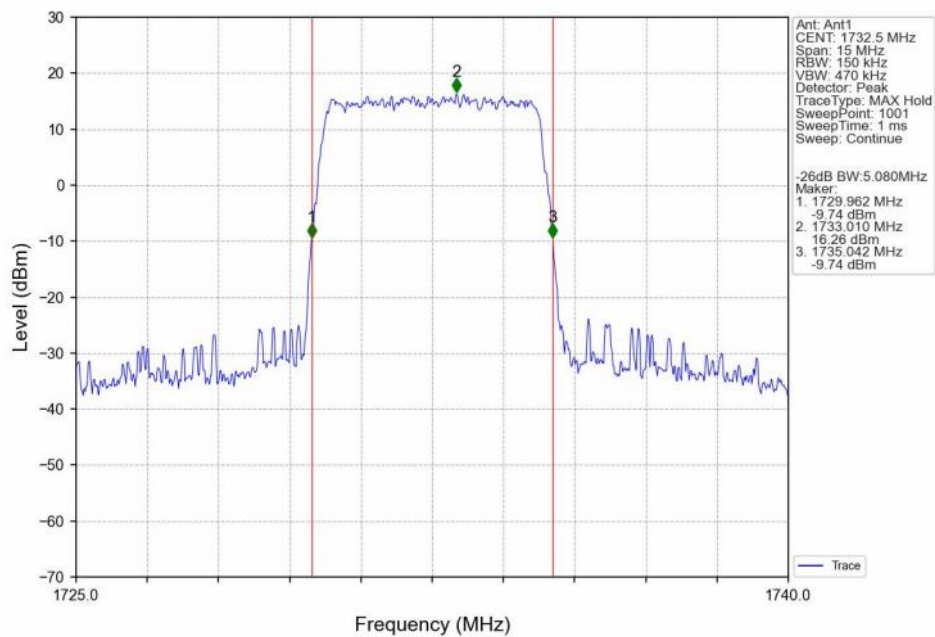
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



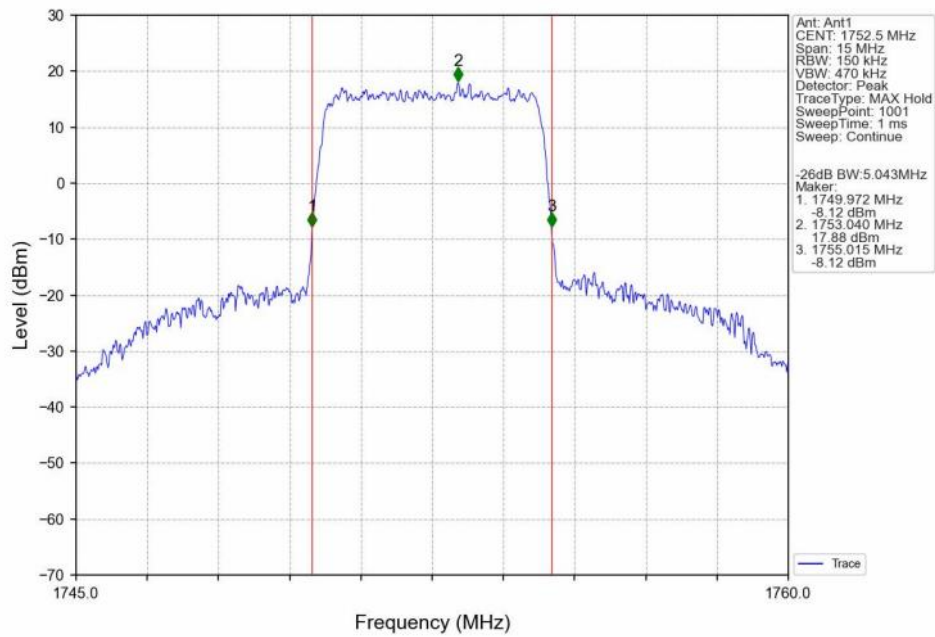
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



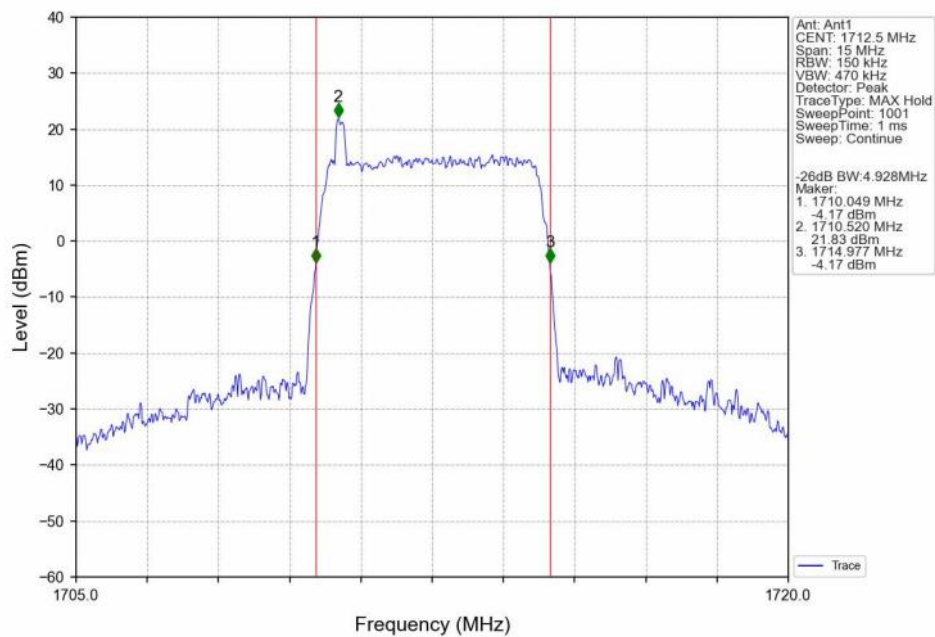
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



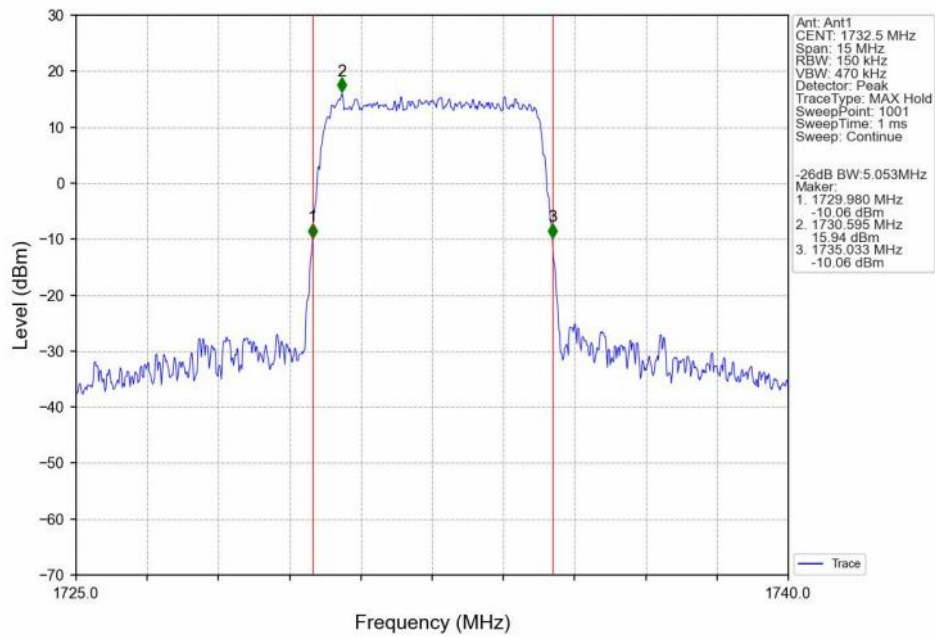
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



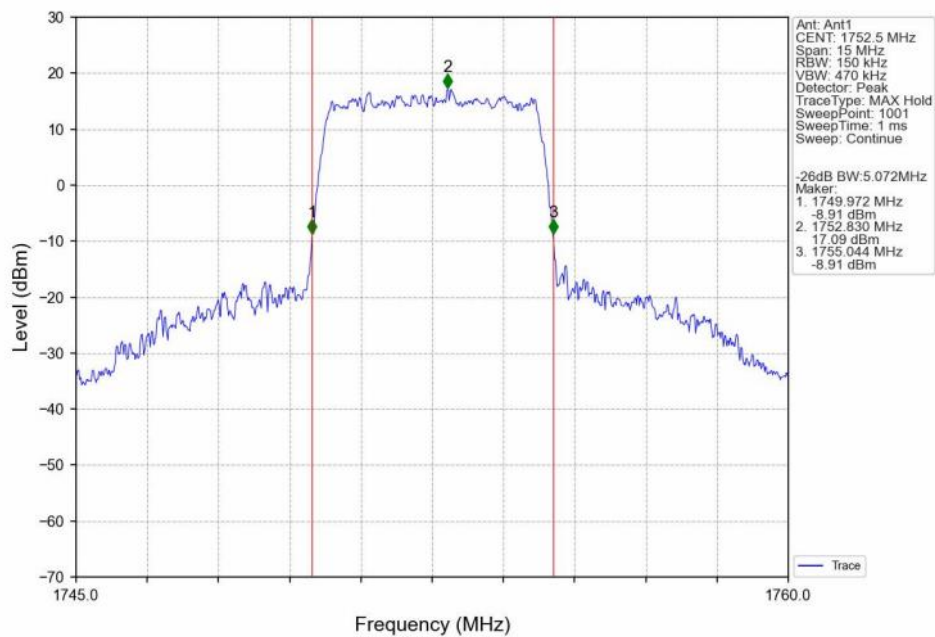
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



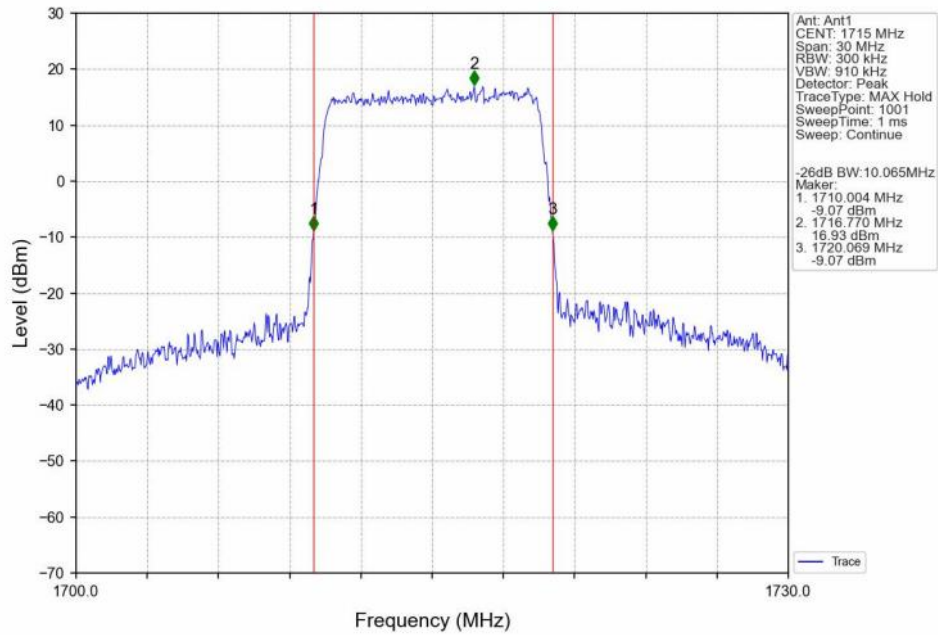
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



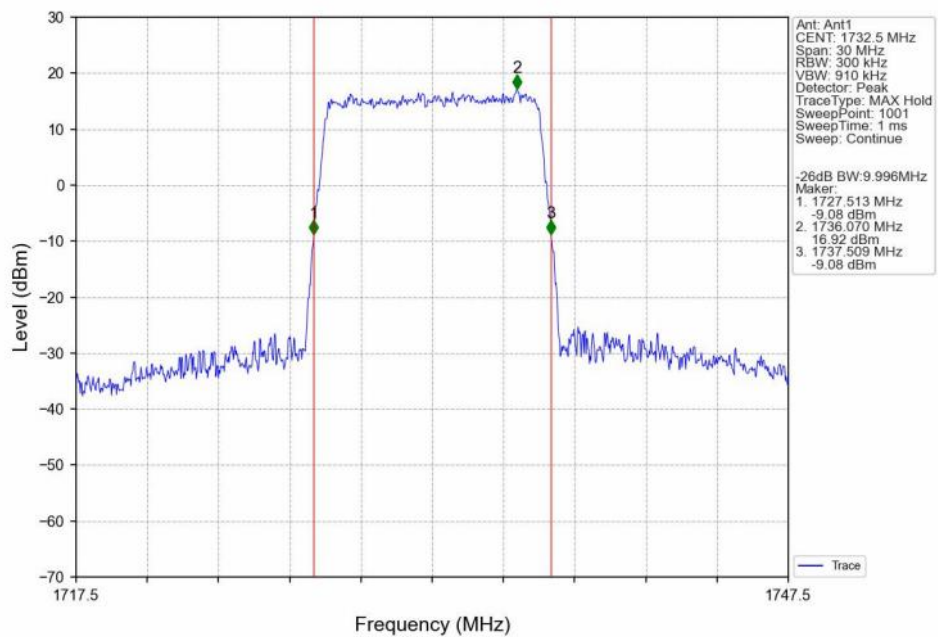
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



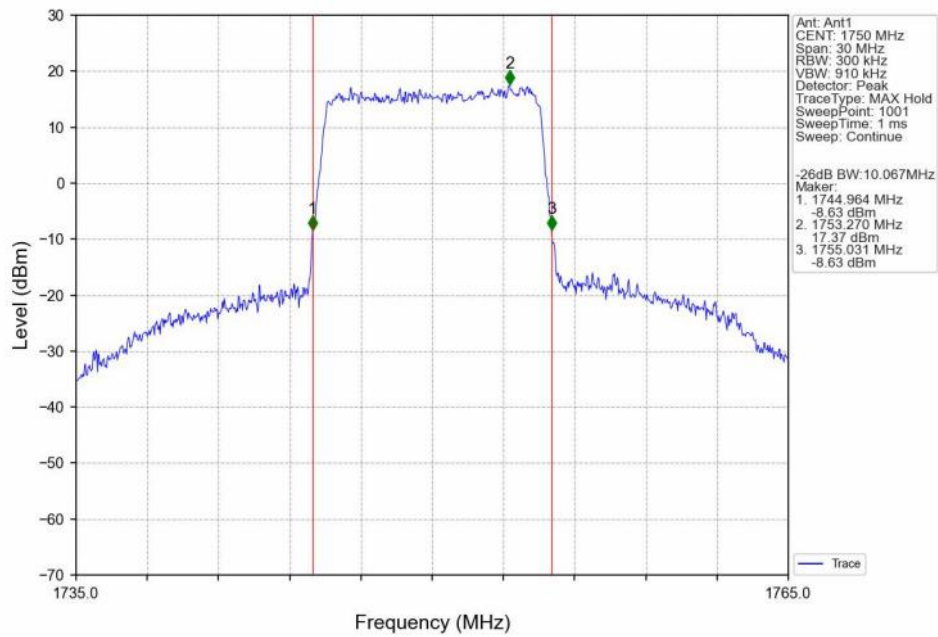
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



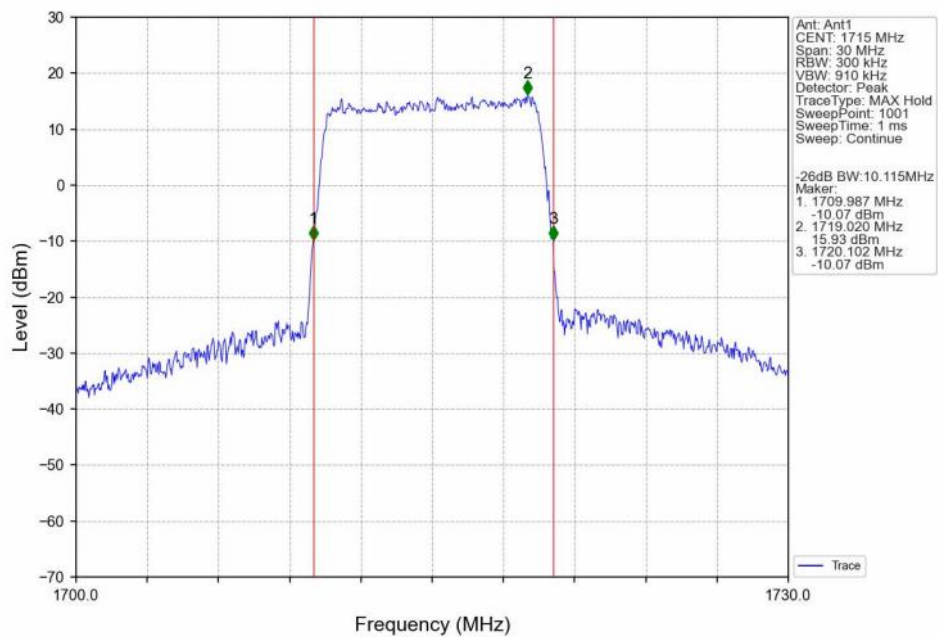
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



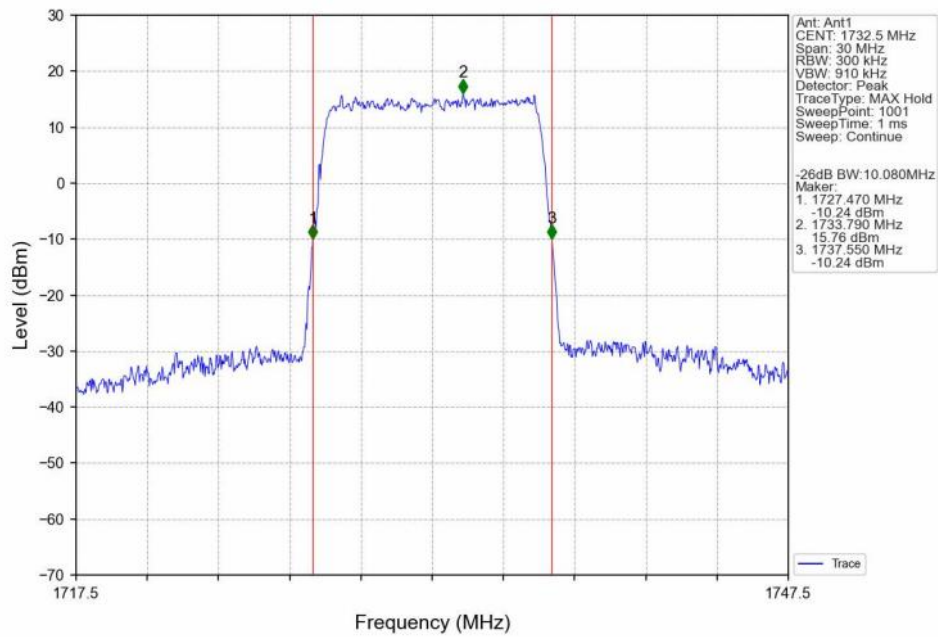
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



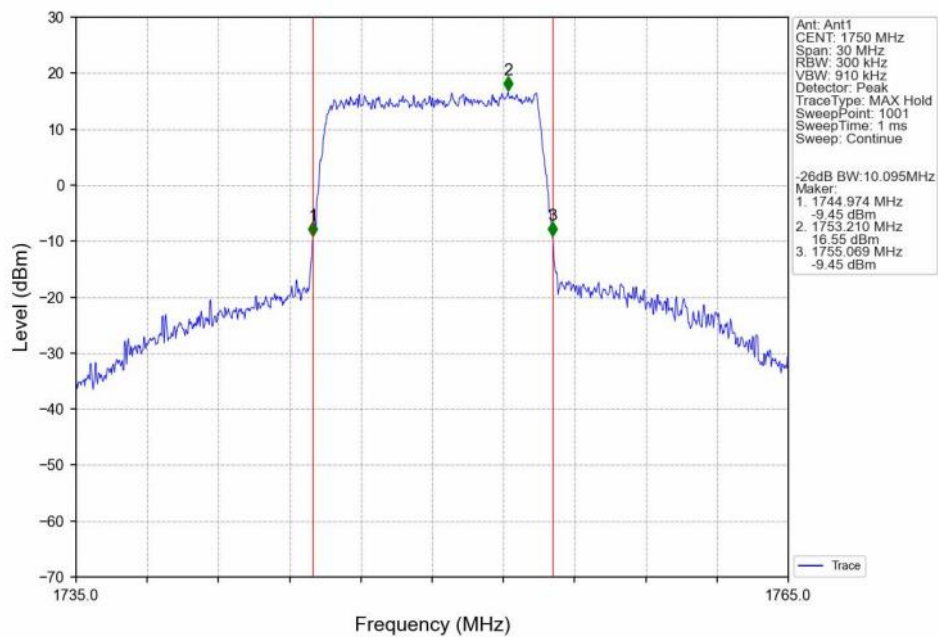
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



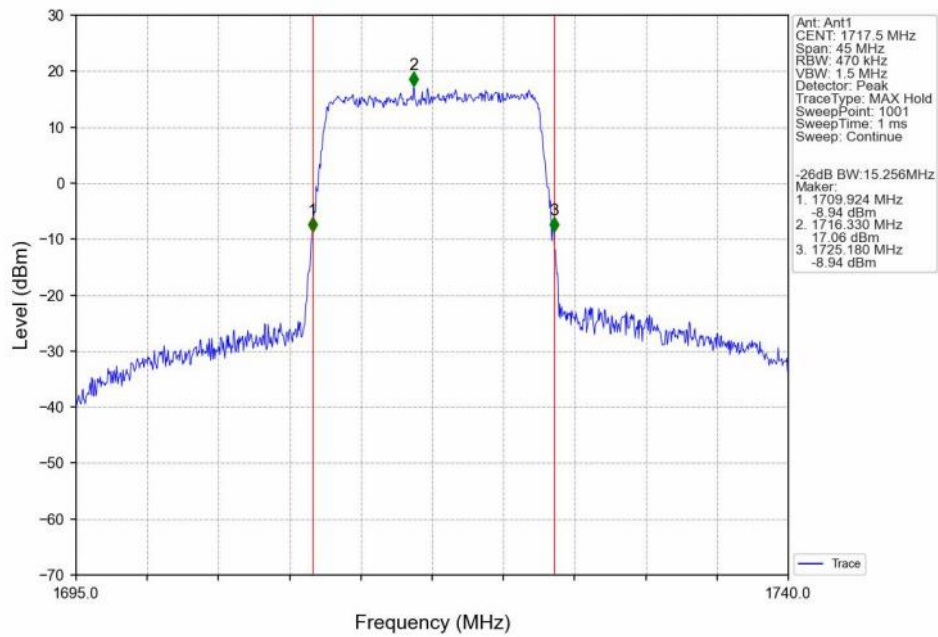
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



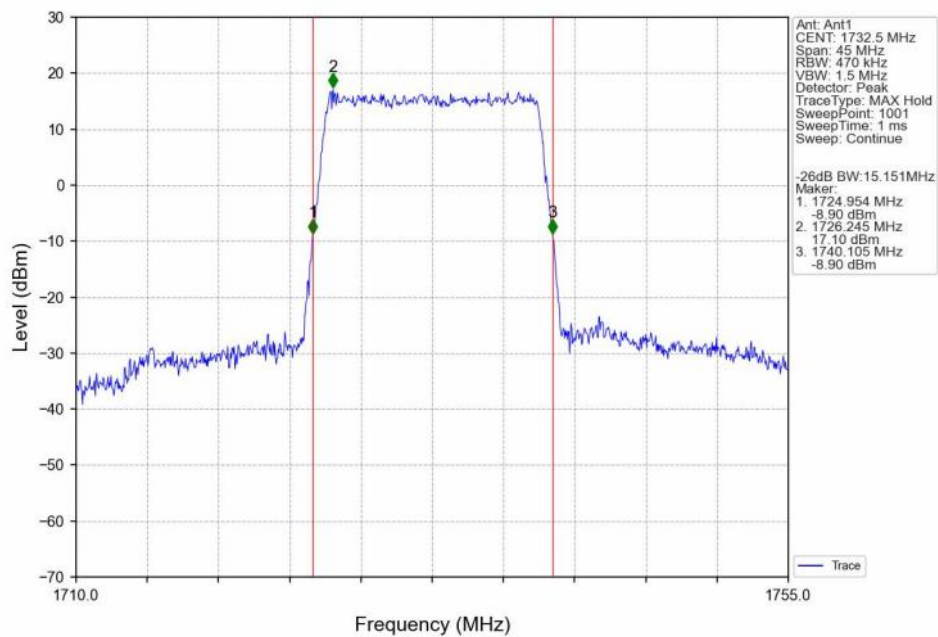
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



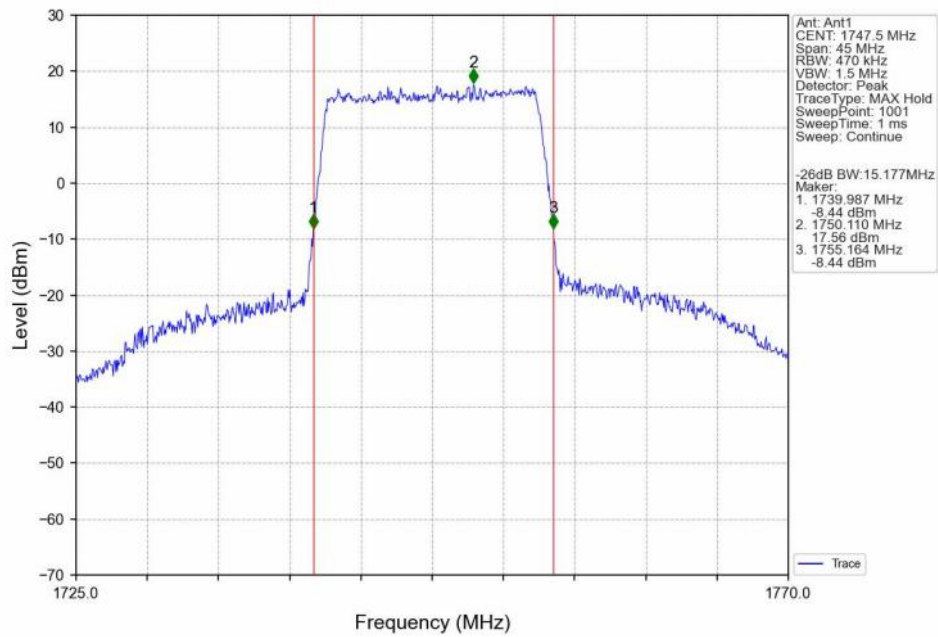
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



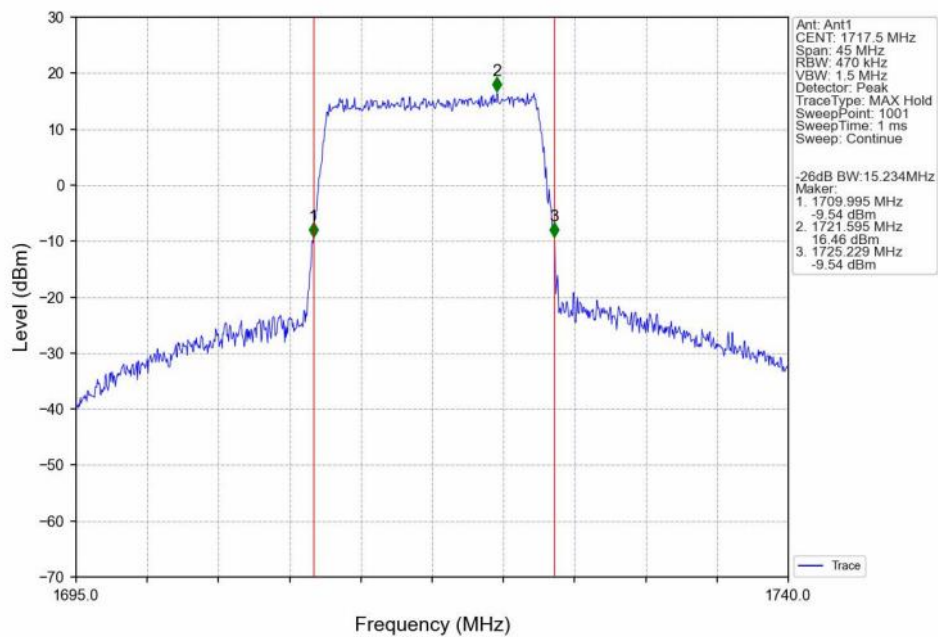
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



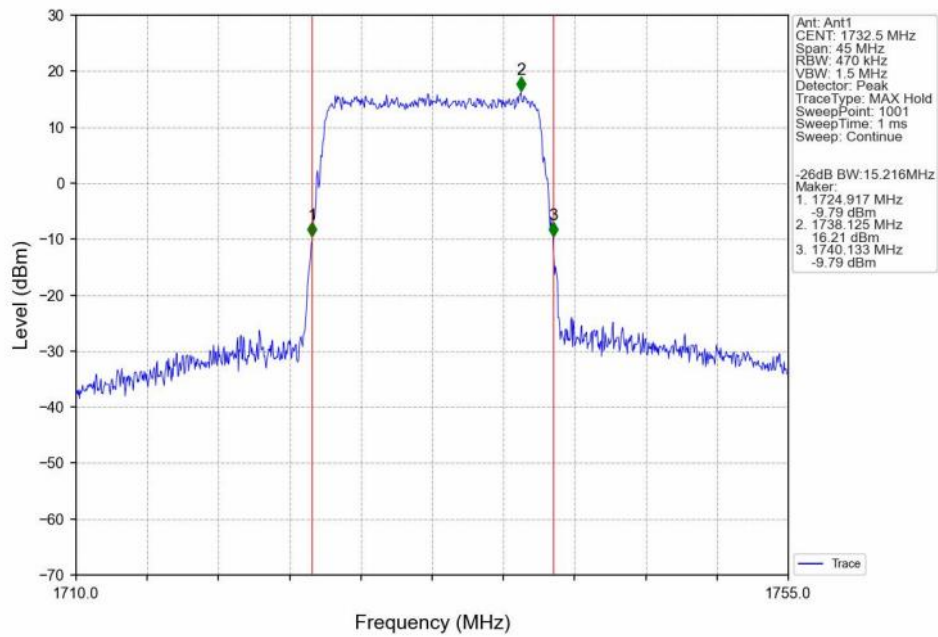
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



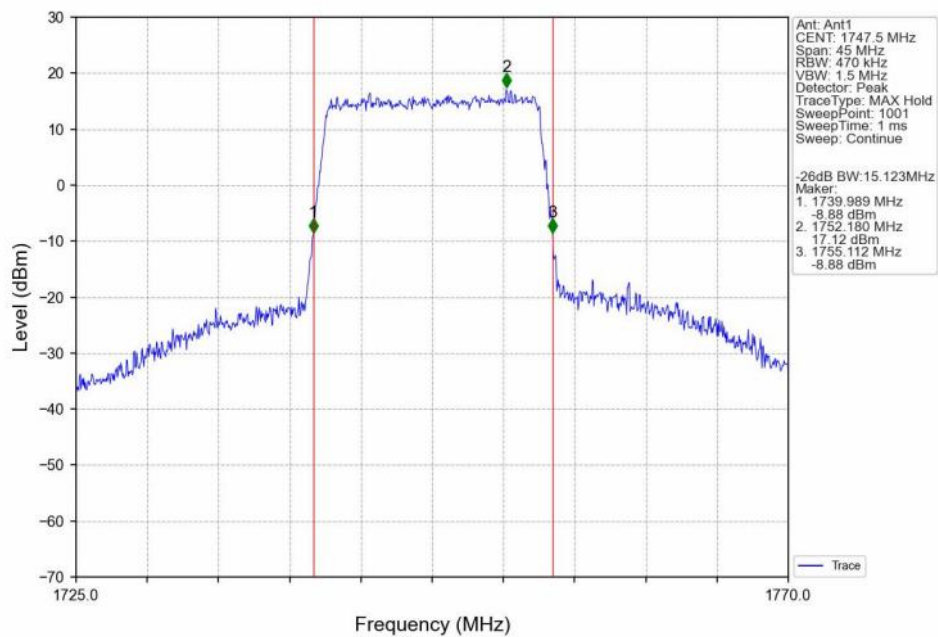
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



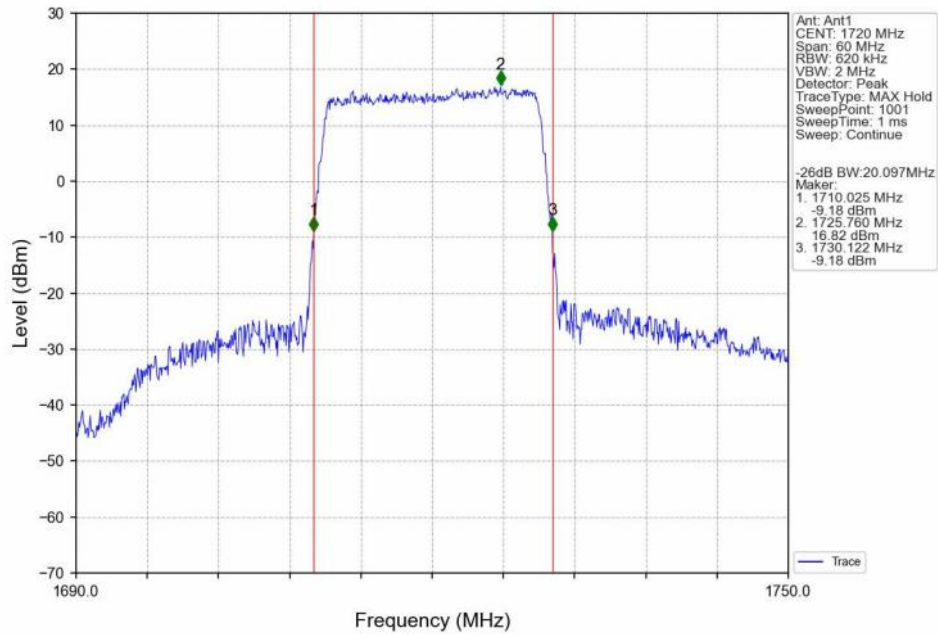
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



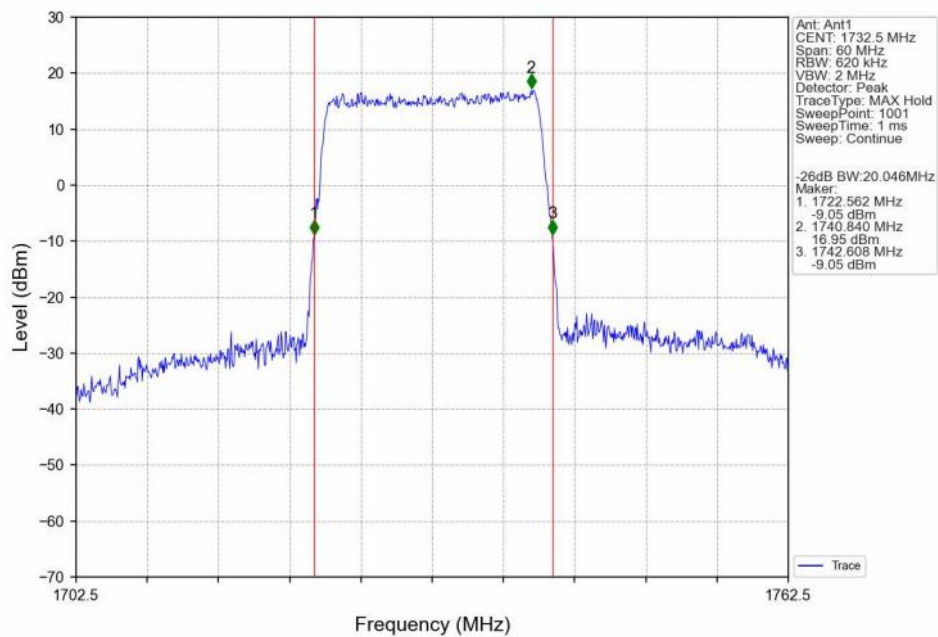
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



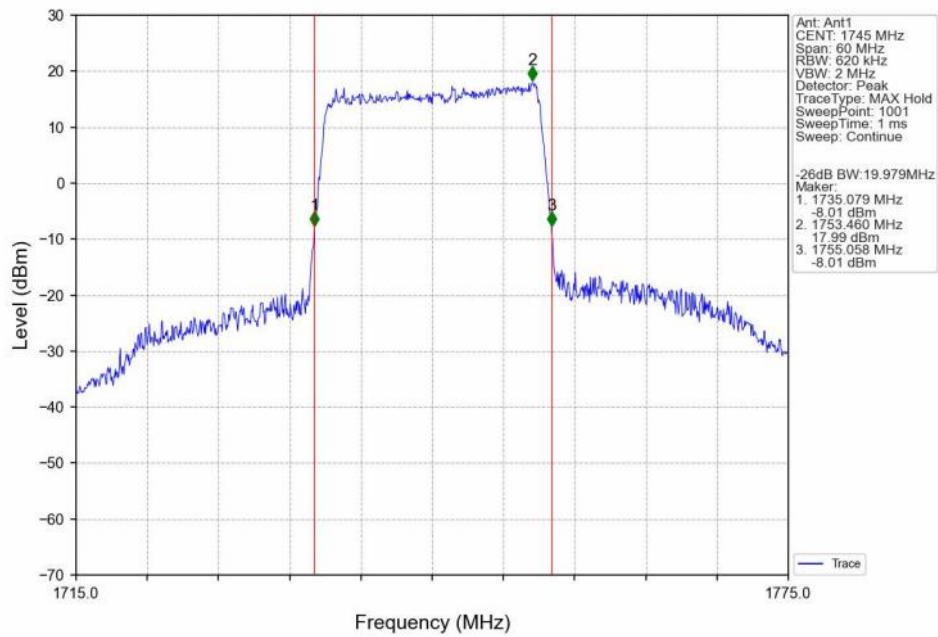
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



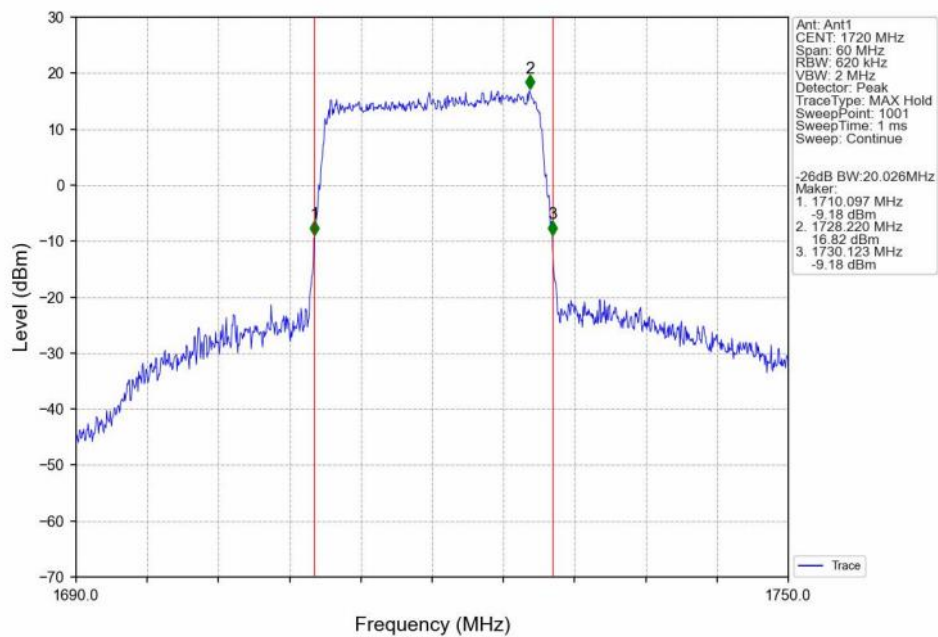
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



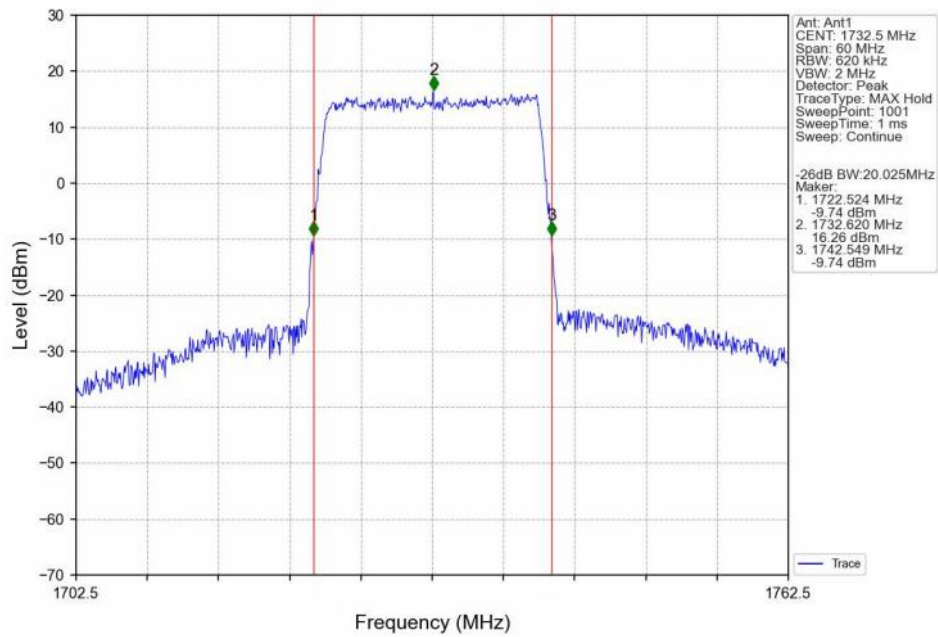
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



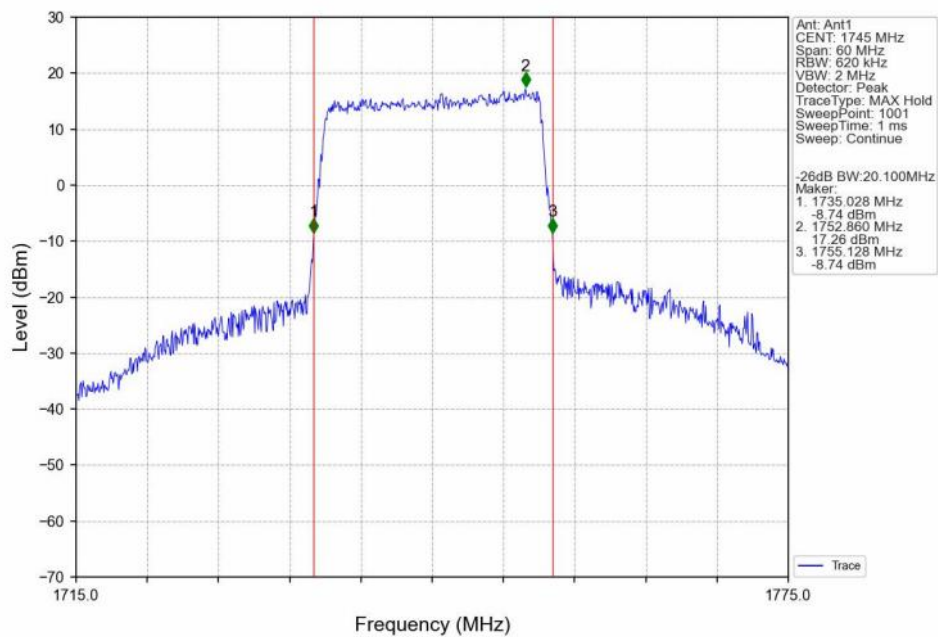
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.45	≤ 13	Pass
	1732.5	6	0	5.63	≤ 13	Pass
	1754.3	6	0	4.67	≤ 13	Pass
16QAM	1710.7	6	0	6.18	≤ 13	Pass
	1732.5	6	0	6.48	≤ 13	Pass
	1754.3	6	0	5.33	≤ 13	Pass

5.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.48	≤ 13	Pass
	1732.5	15	0	5.66	≤ 13	Pass
	1753.5	15	0	4.74	≤ 13	Pass
16QAM	1711.5	15	0	6.26	≤ 13	Pass
	1732.5	15	0	6.47	≤ 13	Pass
	1753.5	15	0	5.56	≤ 13	Pass

5.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.51	≤ 13	Pass
	1732.5	25	0	5.72	≤ 13	Pass
	1752.5	25	0	5.07	≤ 13	Pass
16QAM	1712.5	25	0	6.30	≤ 13	Pass
	1732.5	25	0	6.41	≤ 13	Pass
	1752.5	25	0	5.76	≤ 13	Pass

5.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.53	≤ 13	Pass
	1732.5	50	0	5.73	≤ 13	Pass
	1750	50	0	5.20	≤ 13	Pass
16QAM	1715	50	0	6.29	≤ 13	Pass
	1732.5	50	0	6.47	≤ 13	Pass

	1750	50	0	5.93	<=13	Pass
--	------	----	---	------	------	------

5.1.5 B4_15MHz

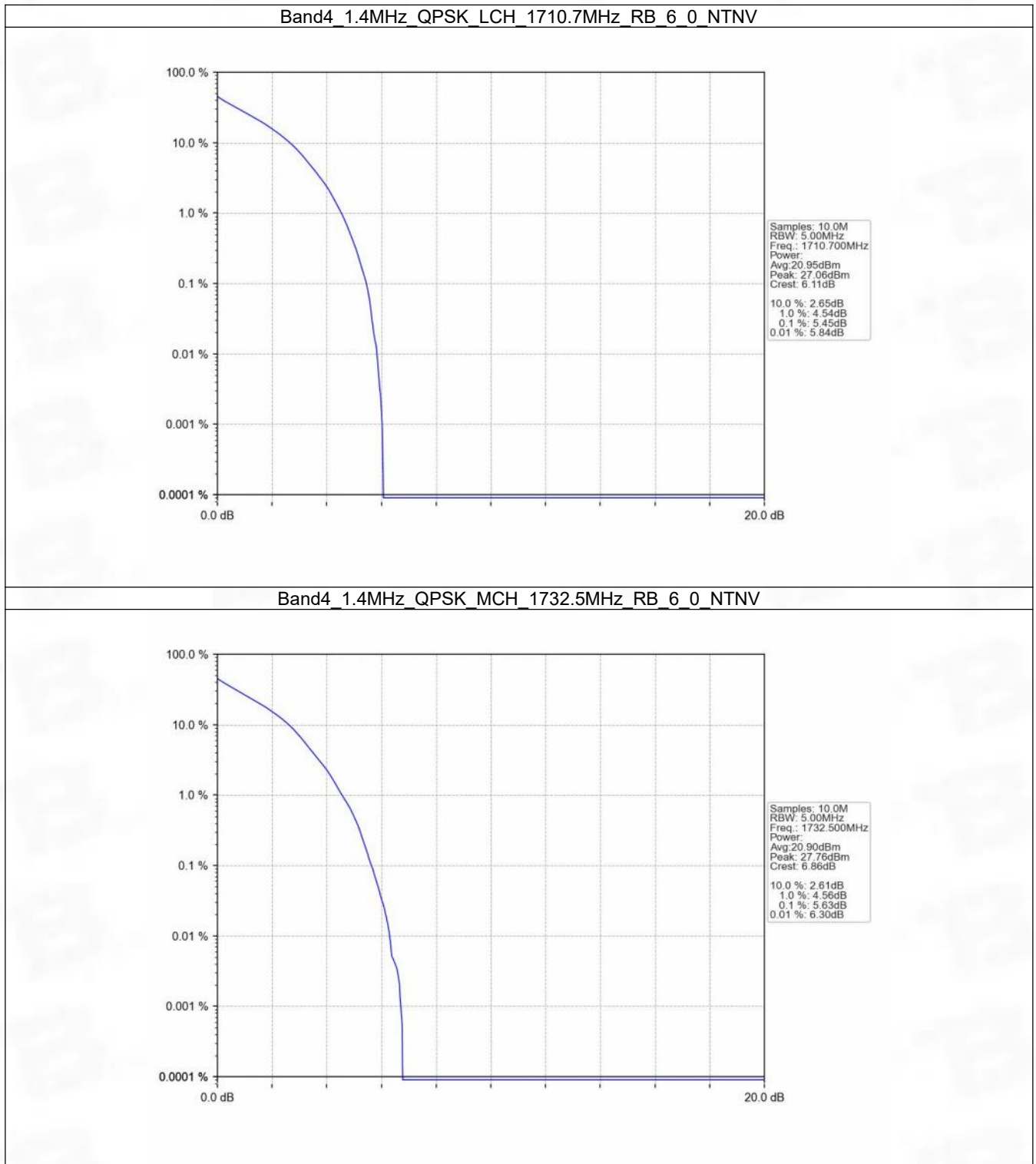
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.74	<=13	Pass
	1732.5	75	0	5.97	<=13	Pass
	1747.5	75	0	5.47	<=13	Pass
16QAM	1717.5	75	0	6.17	<=13	Pass
	1732.5	75	0	6.47	<=13	Pass
	1747.5	75	0	6.06	<=13	Pass

5.1.6 B4_20MHz

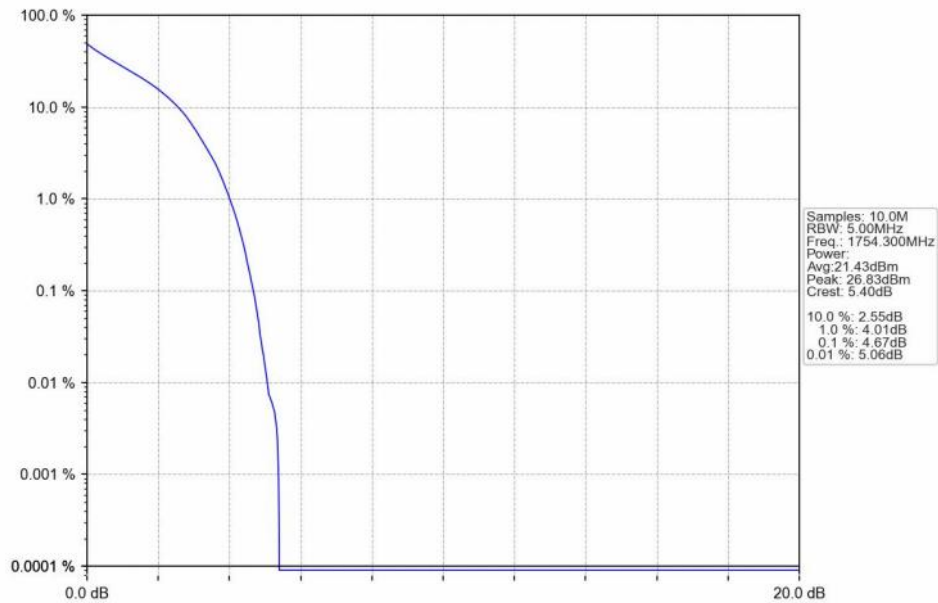
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.62	<=13	Pass
	1732.5	100	0	5.73	<=13	Pass
	1745	100	0	5.44	<=13	Pass
16QAM	1720	100	0	6.25	<=13	Pass
	1732.5	100	0	6.43	<=13	Pass
	1745	100	0	8.40	<=13	Pass

5.2 Test Graph

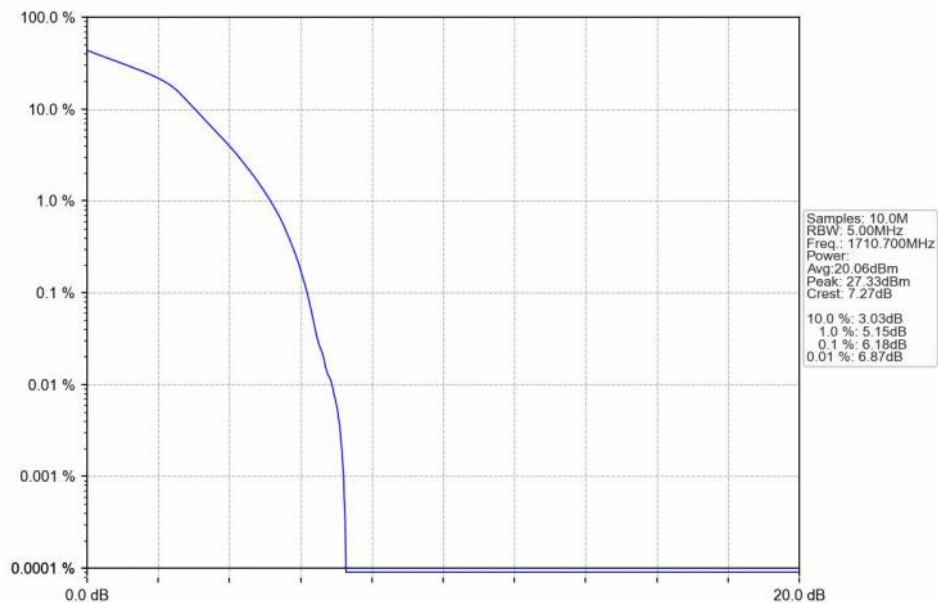
5.2.1 B4_1.4MHz



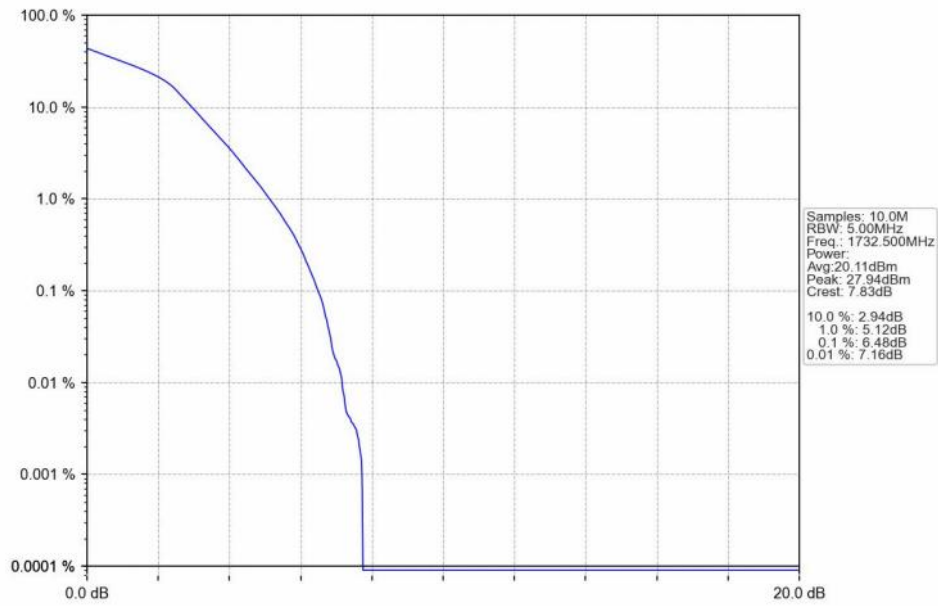
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



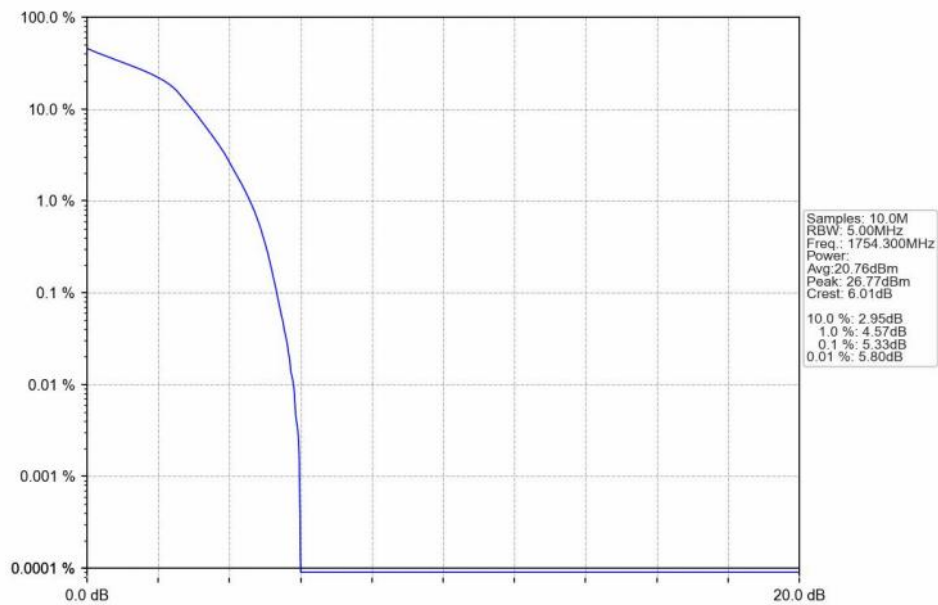
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



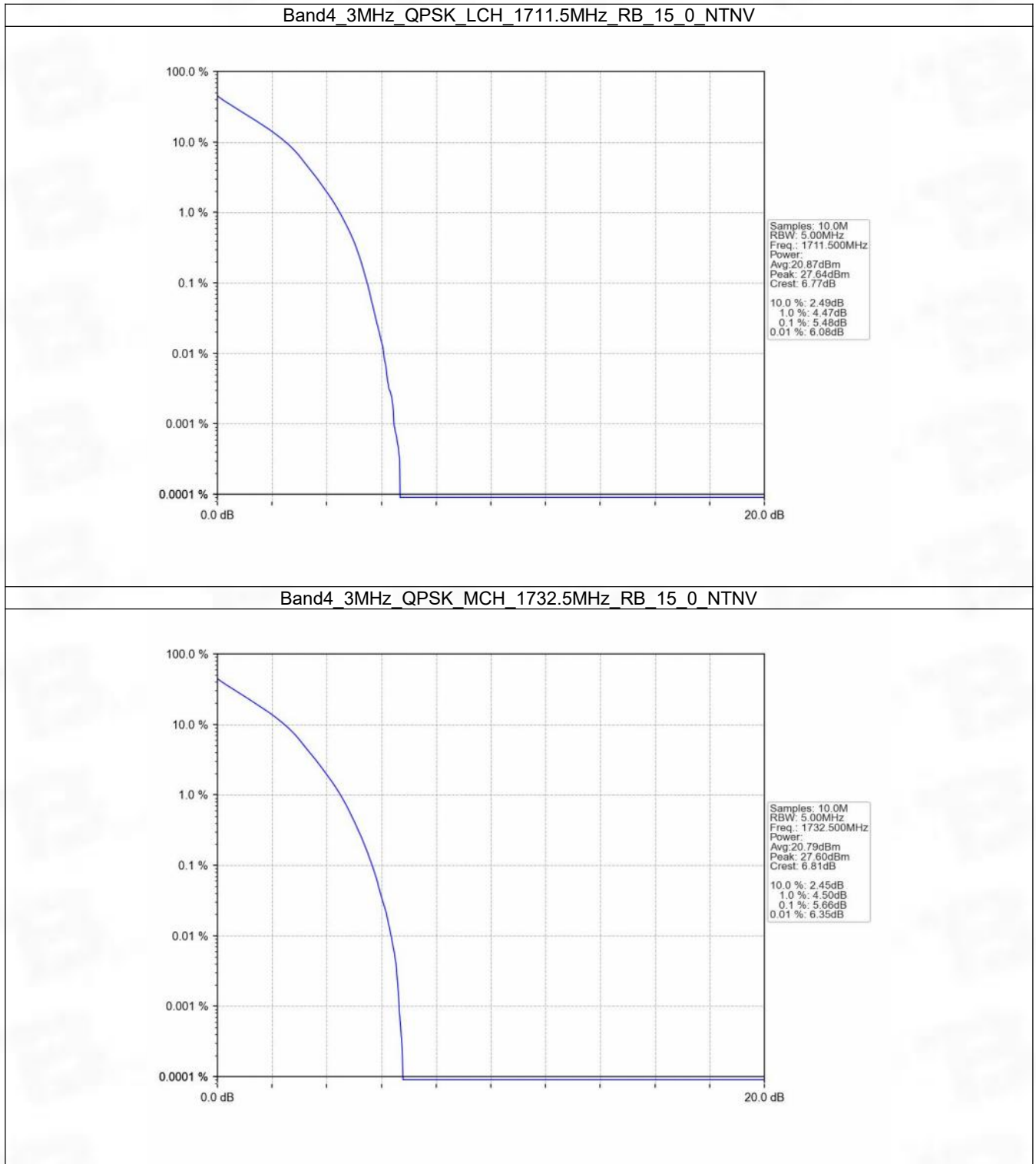
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



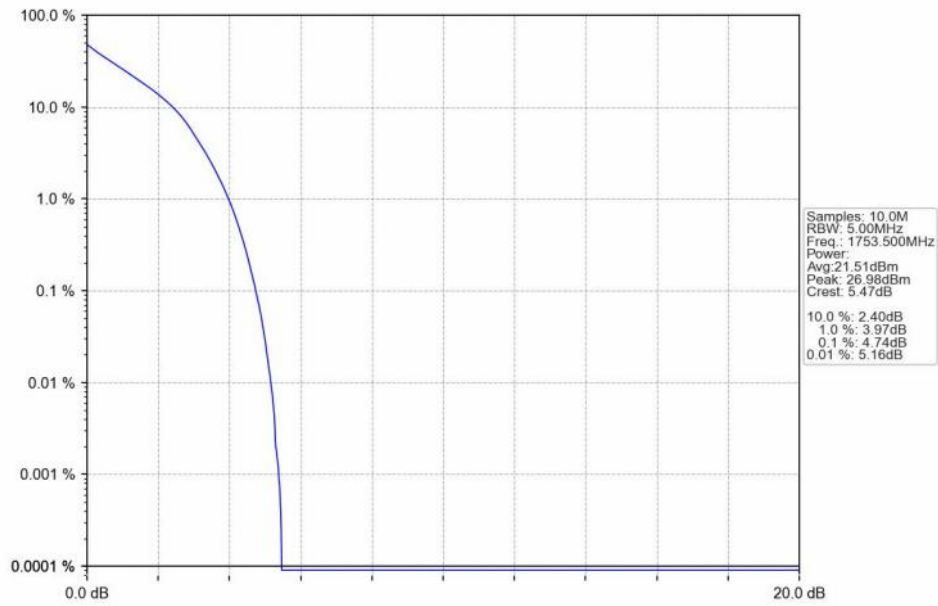
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



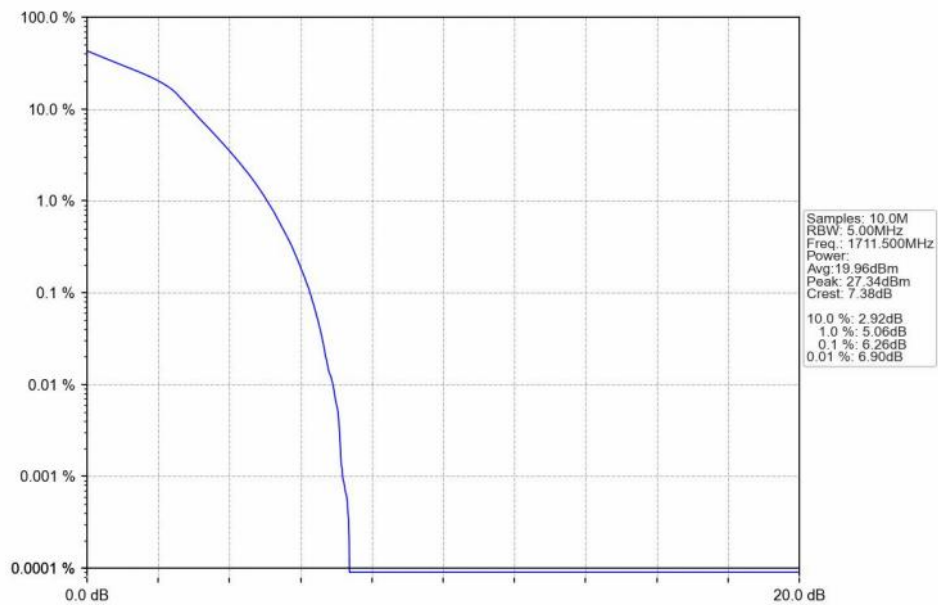
5.2.2 B4_3MHz



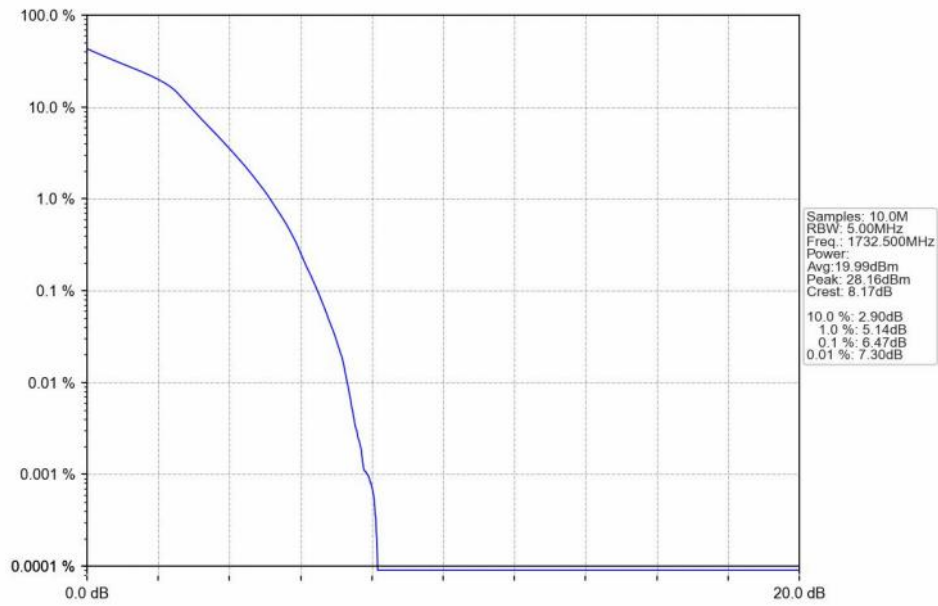
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



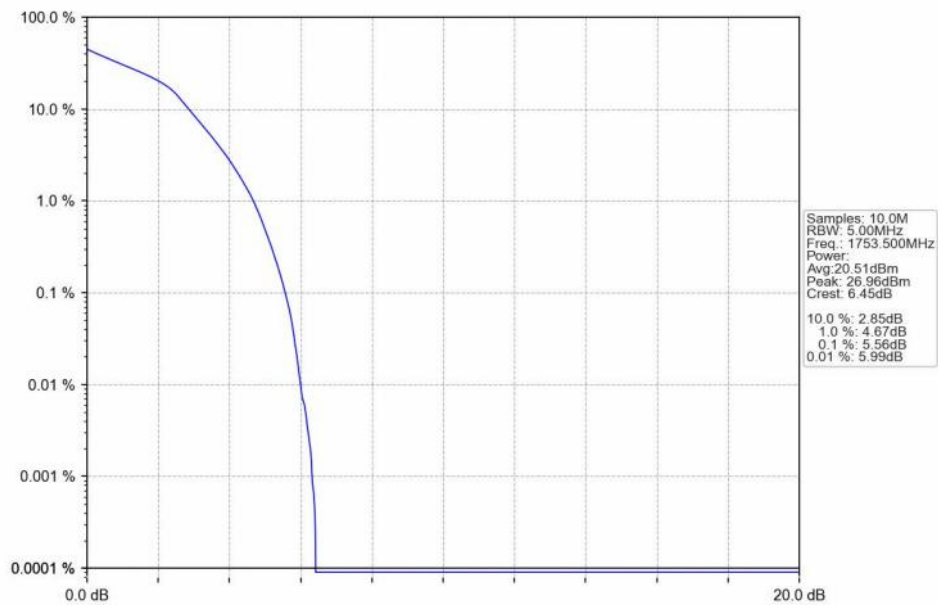
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



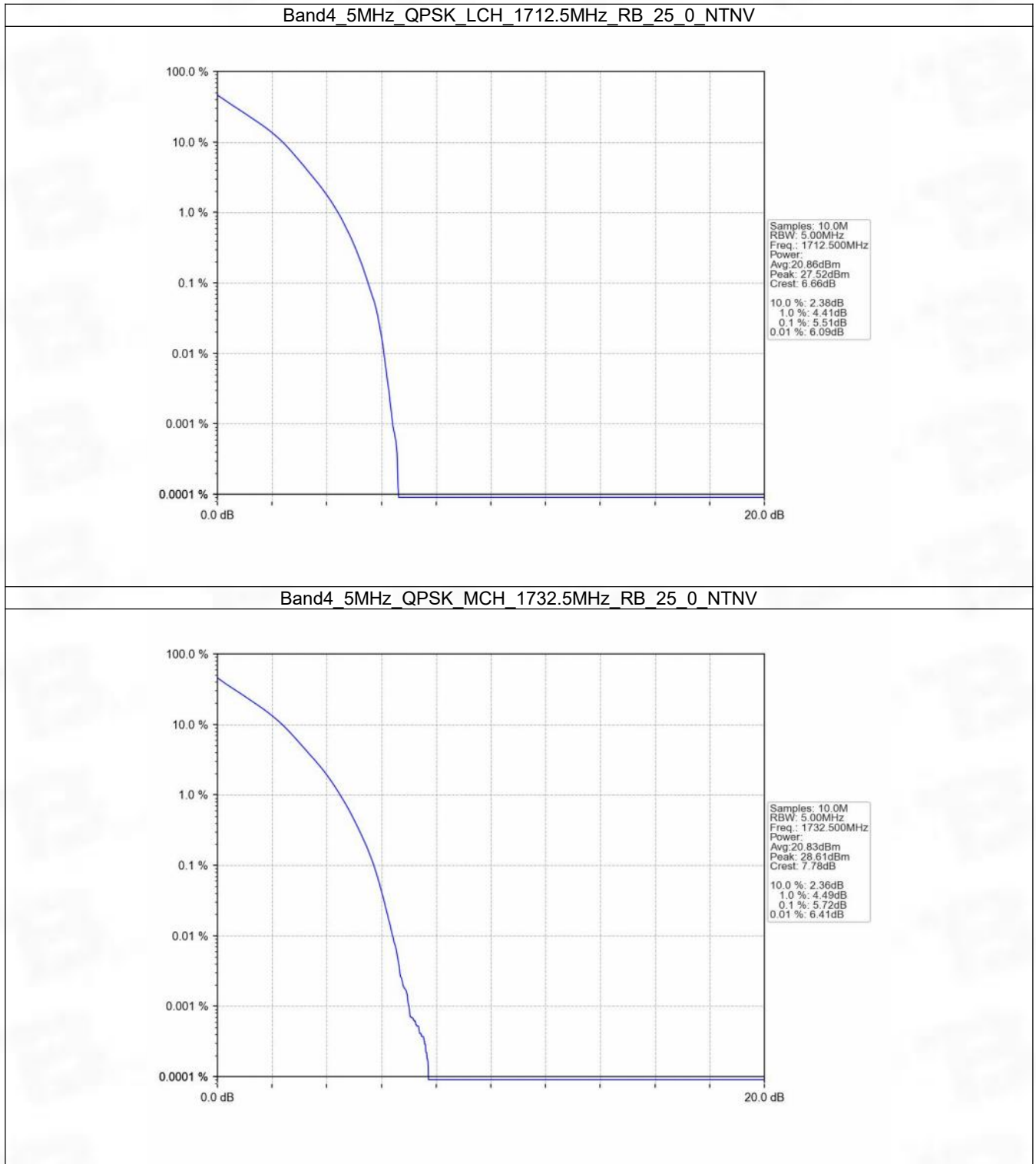
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



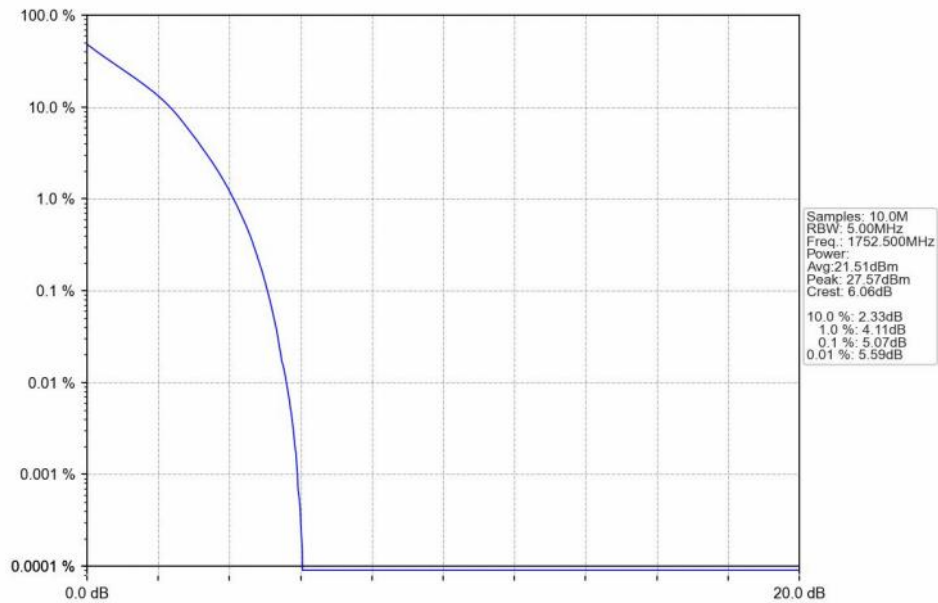
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



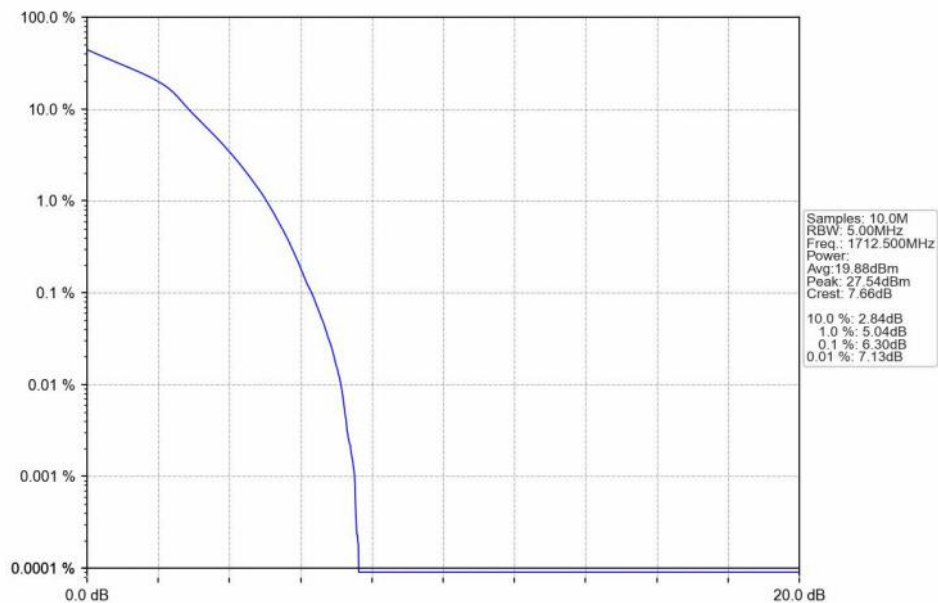
5.2.3 B4_5MHz



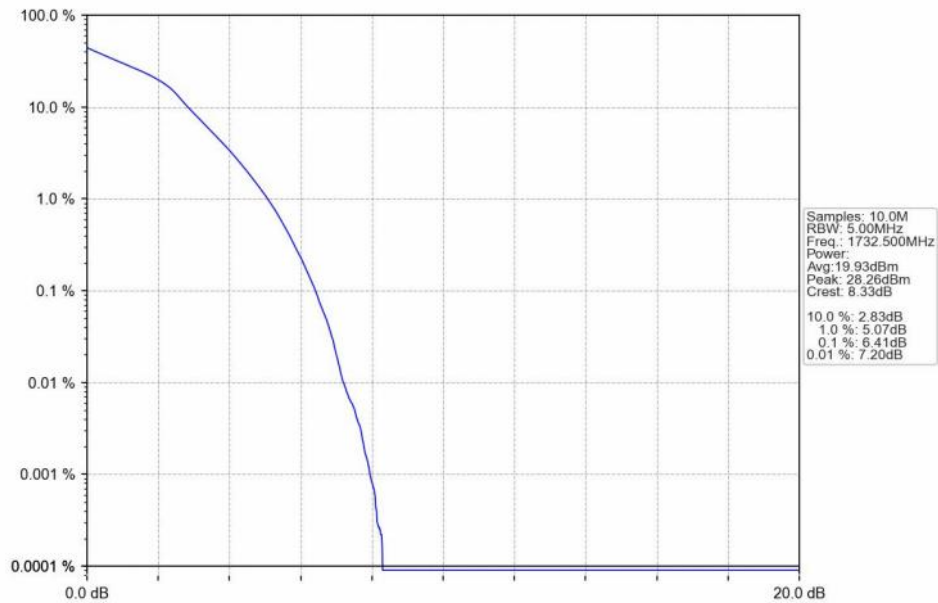
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



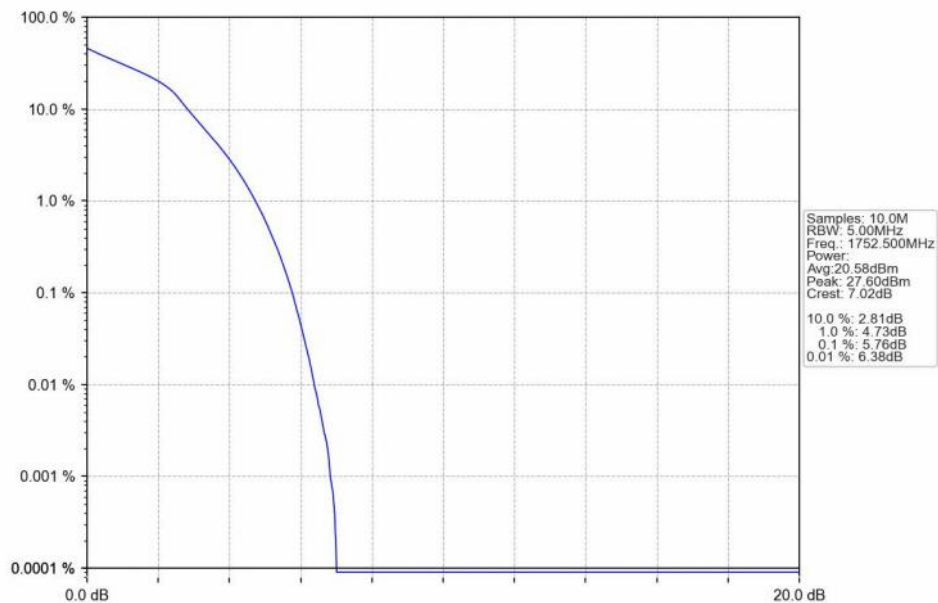
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



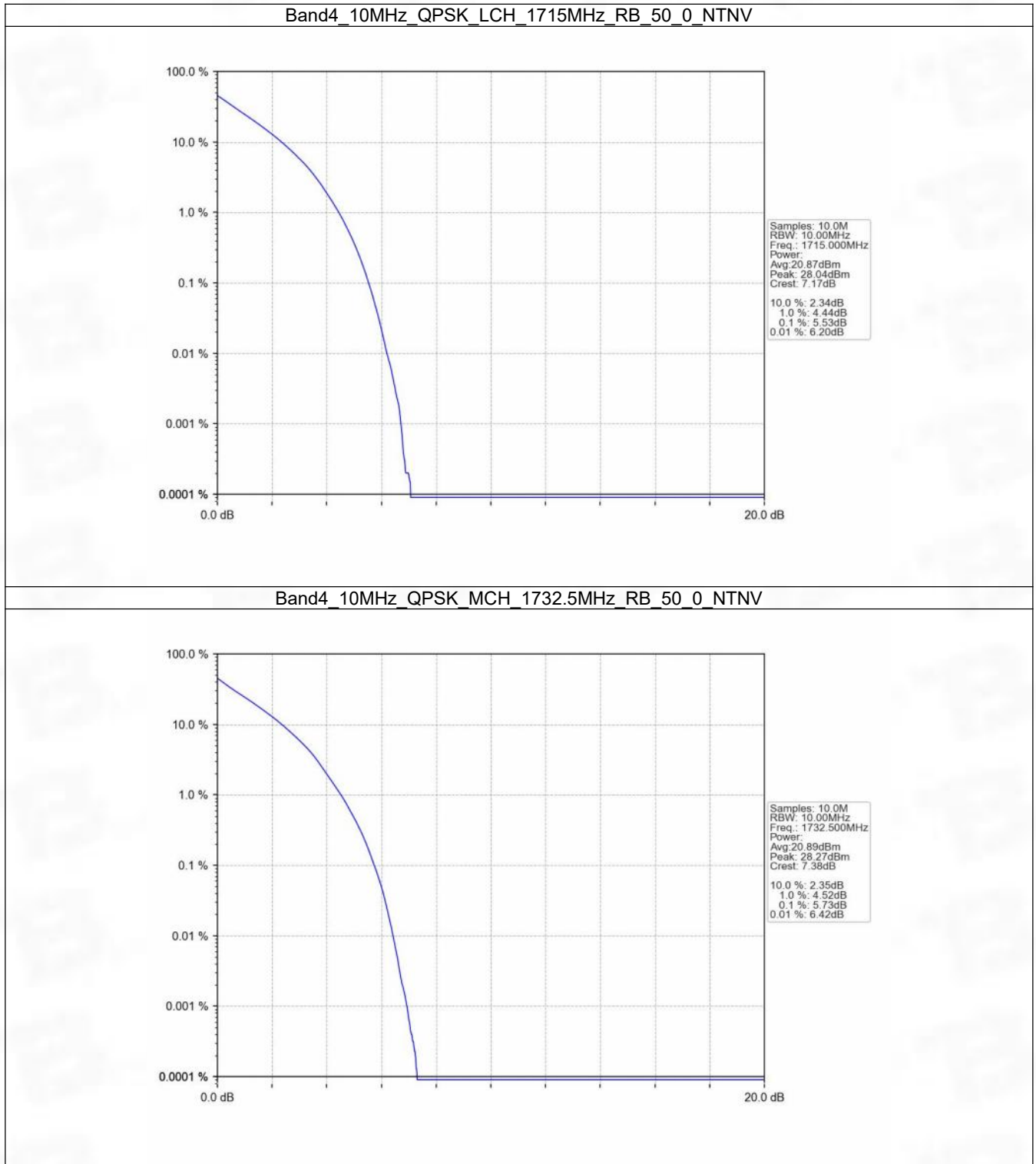
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



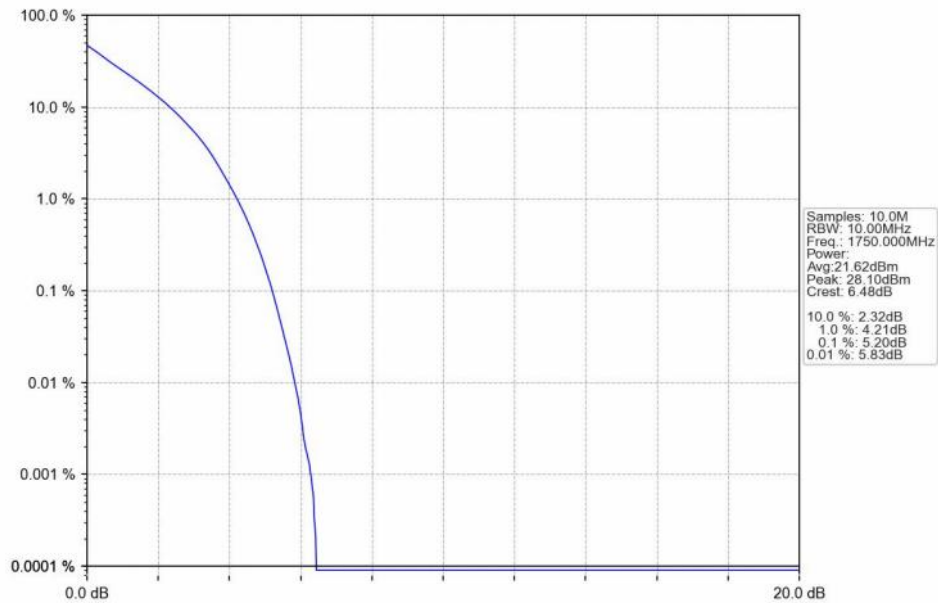
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



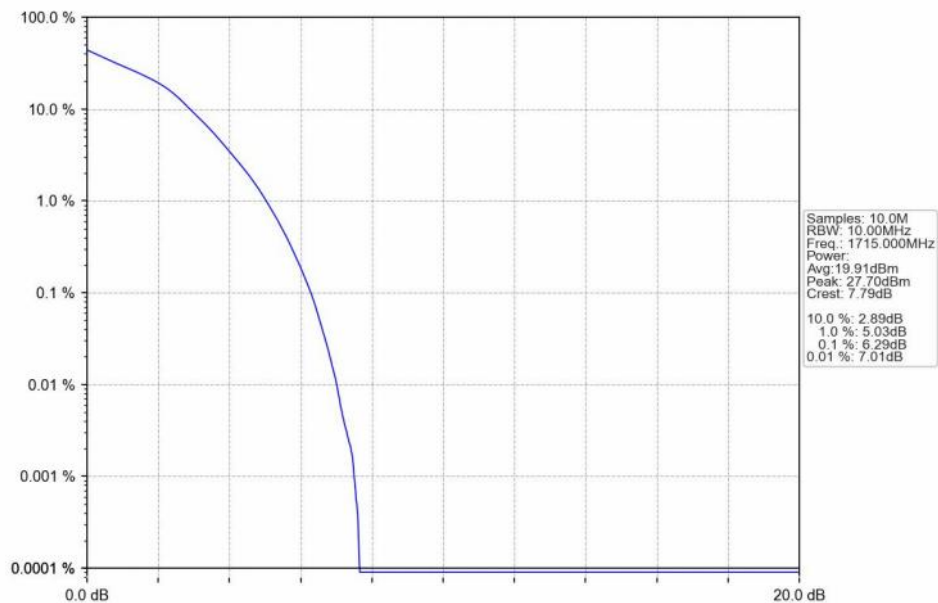
5.2.4 B4_10MHz



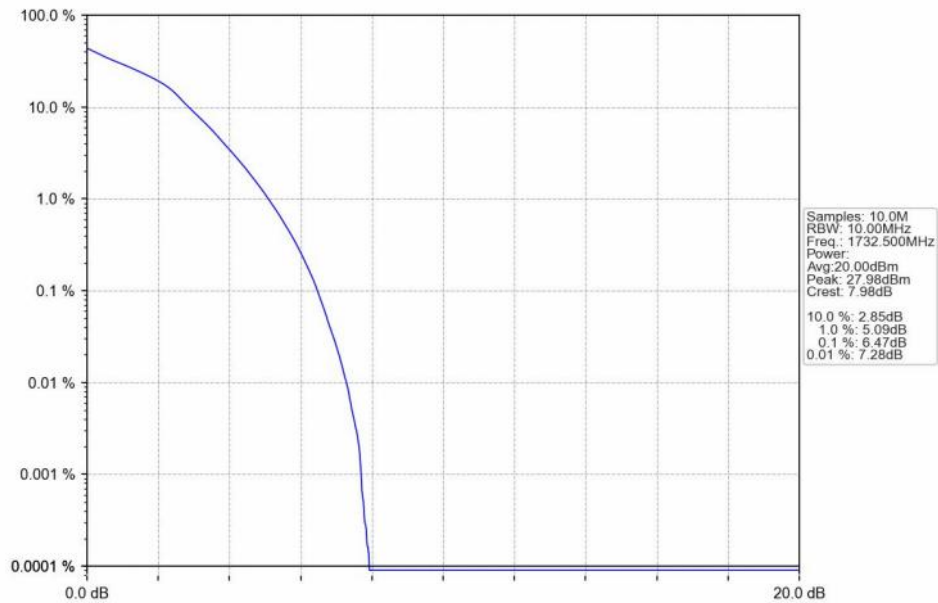
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



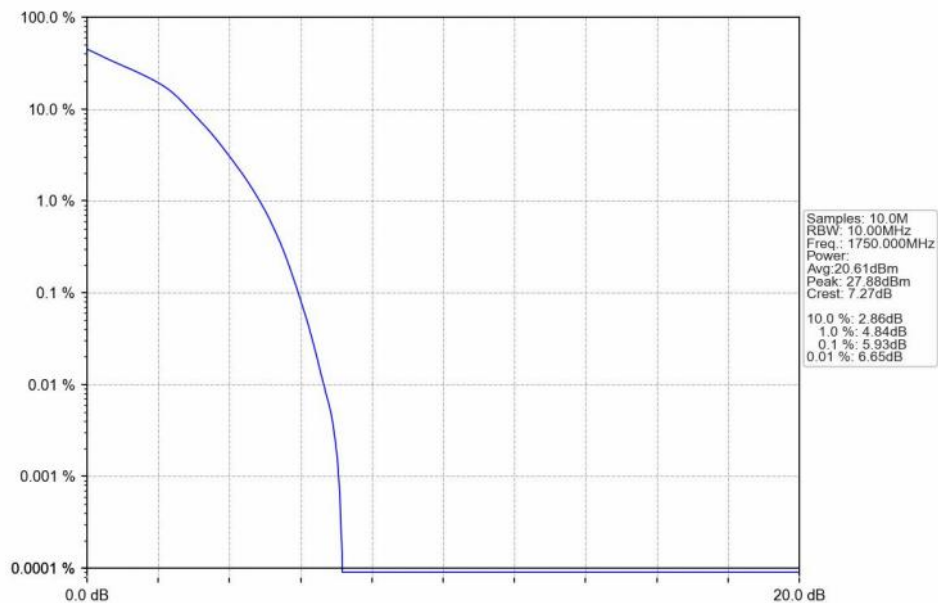
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



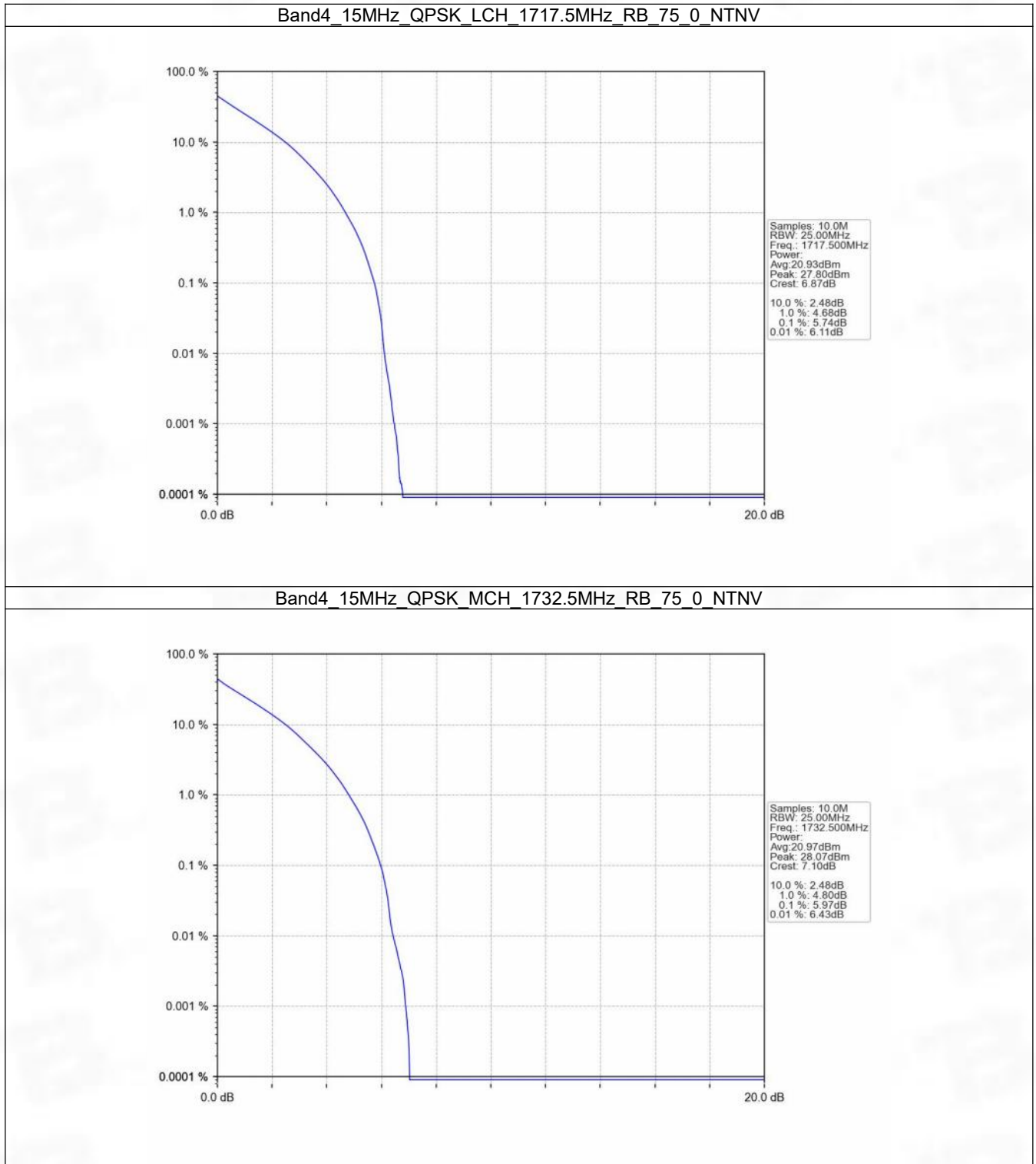
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



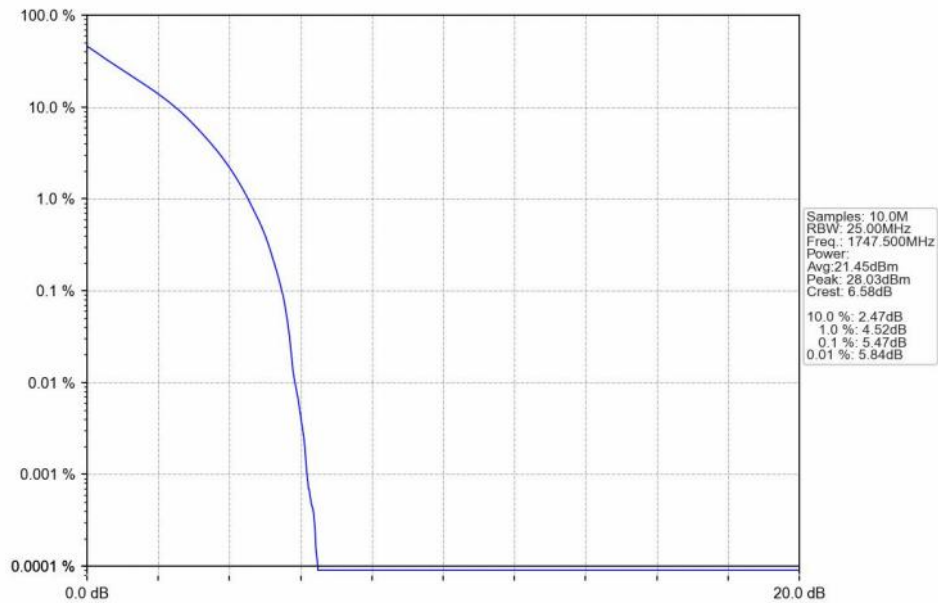
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



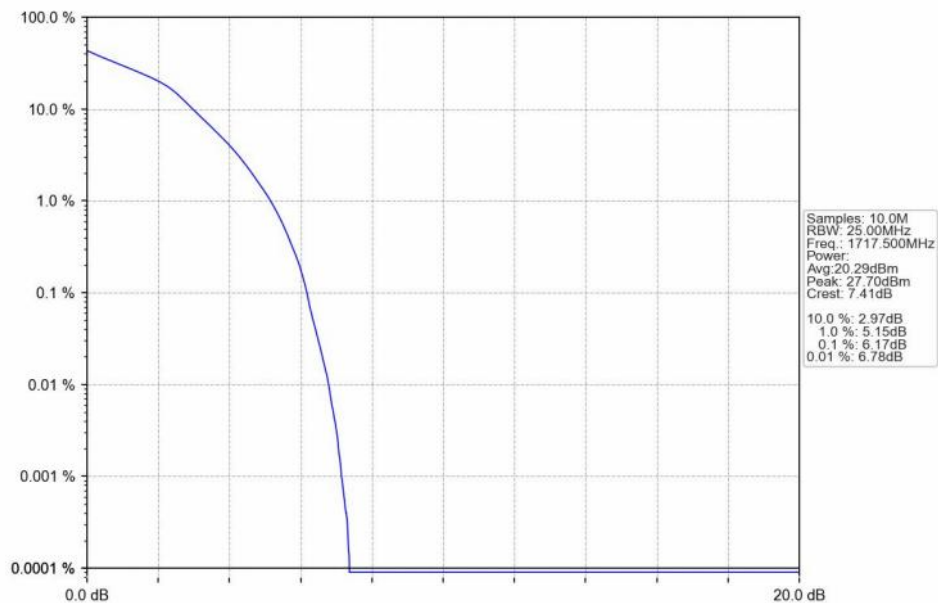
5.2.5 B4_15MHz



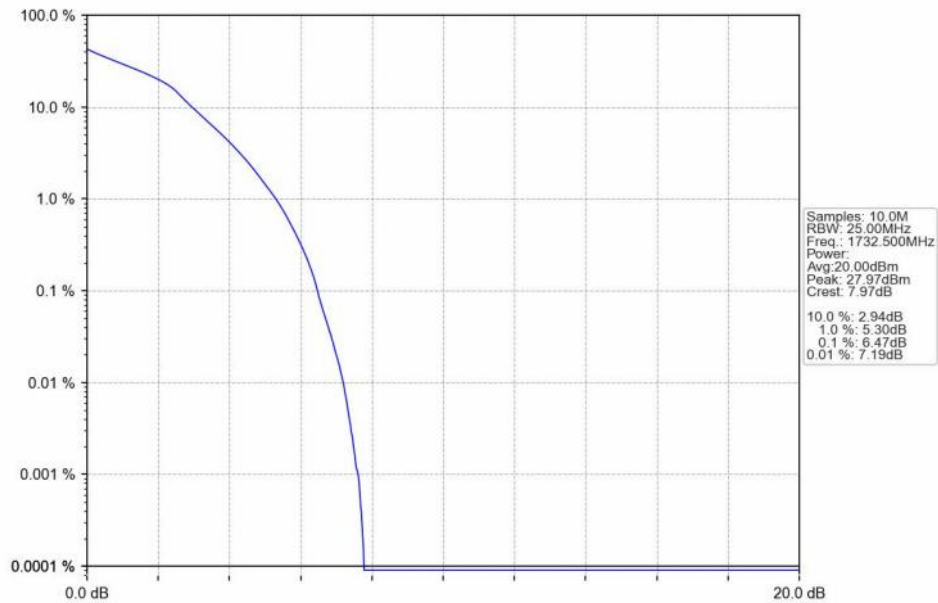
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



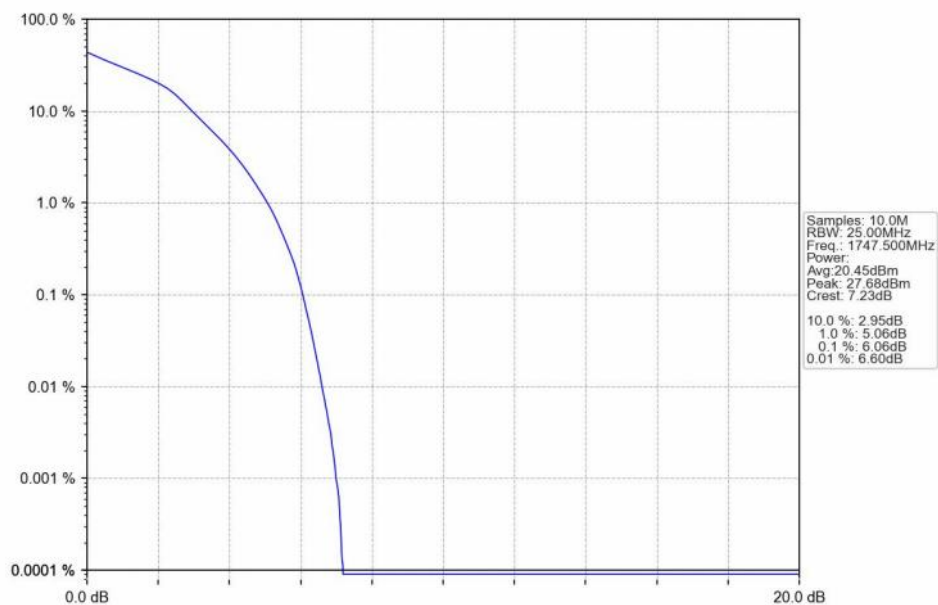
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



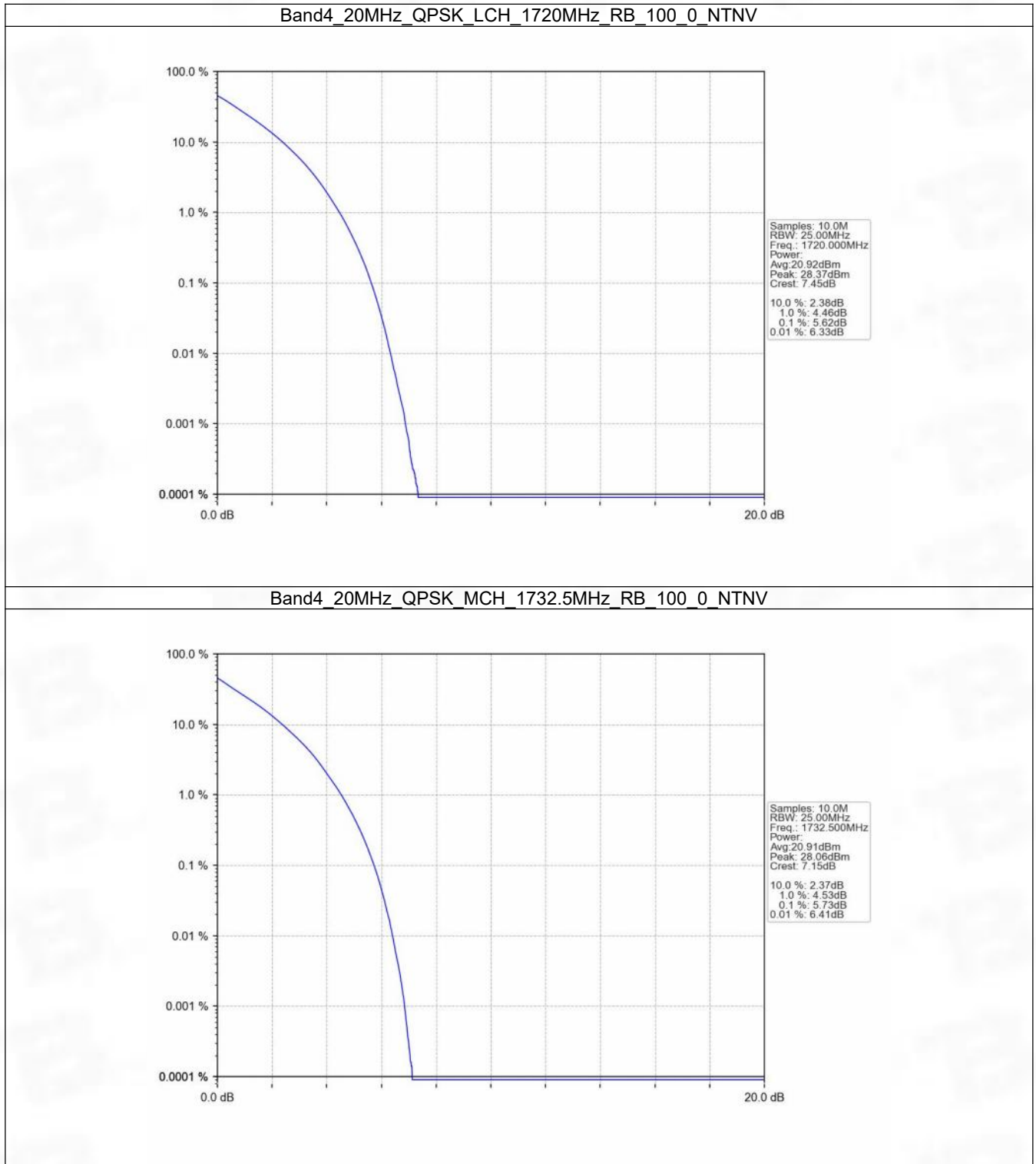
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



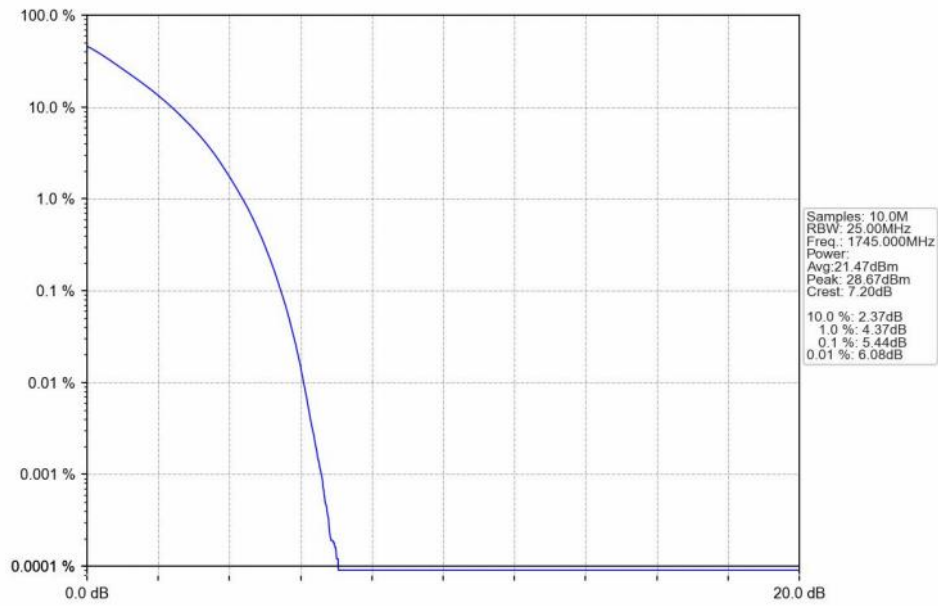
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



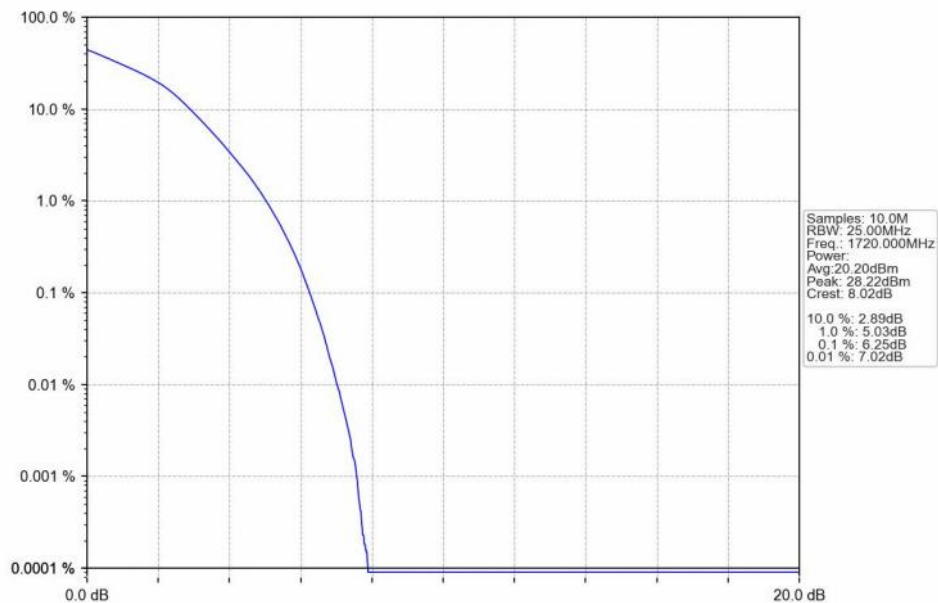
5.2.6 B4_20MHz



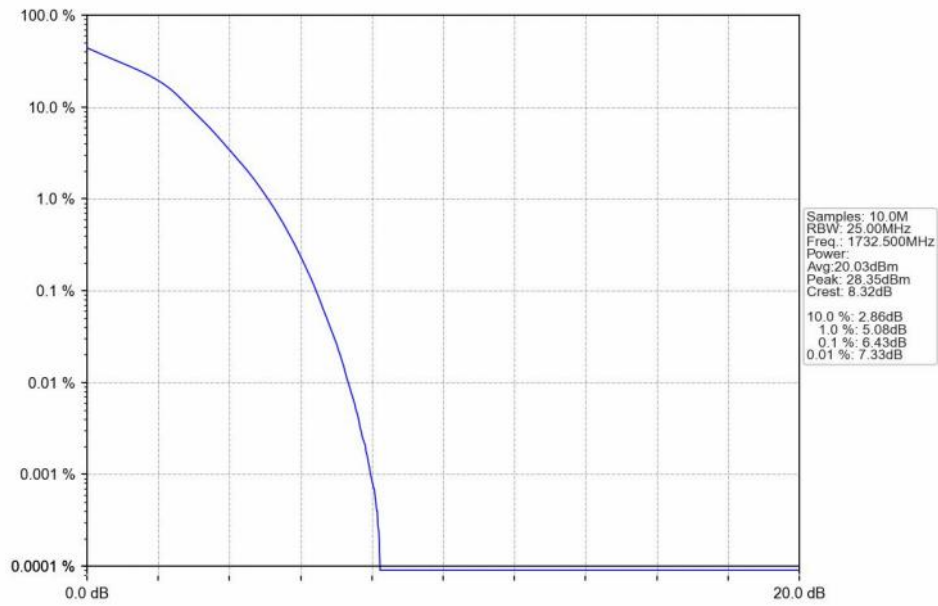
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



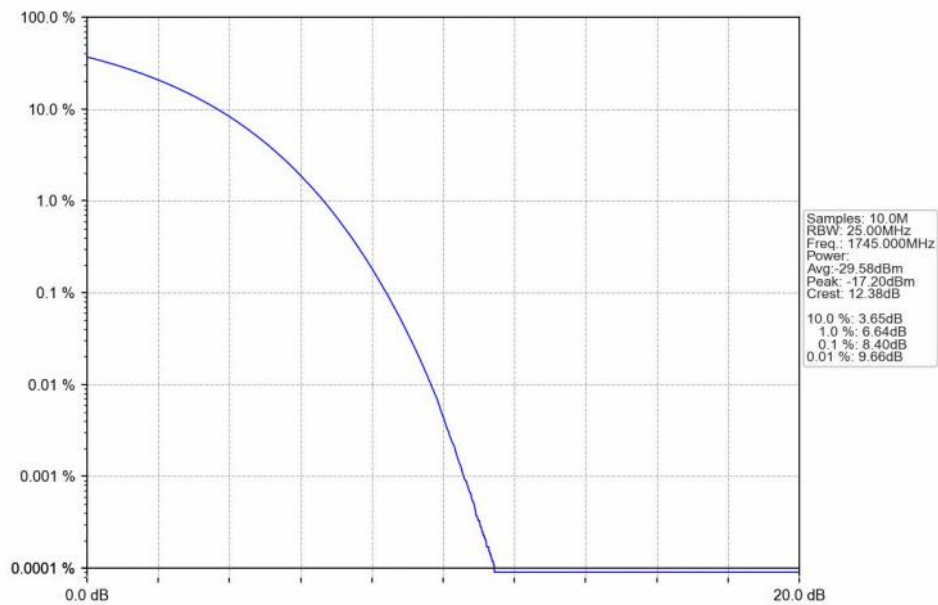
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
		1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
16QAM	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
		1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass

6.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
		1	0	Refer To Test Graph	Pass
			14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
16QAM	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
		1	0	Refer To Test Graph	Pass
			14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass

6.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
		1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
16QAM	1712.5	1	0	Refer To Test Graph	Pass

	1732.5	25	0	Refer To Test Graph	Pass
		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

6.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
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
16QAM	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	
	49			Refer To Test Graph		Pass
	50		0	Refer To Test Graph		Pass

6.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz / NTNV						
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
16QAM	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

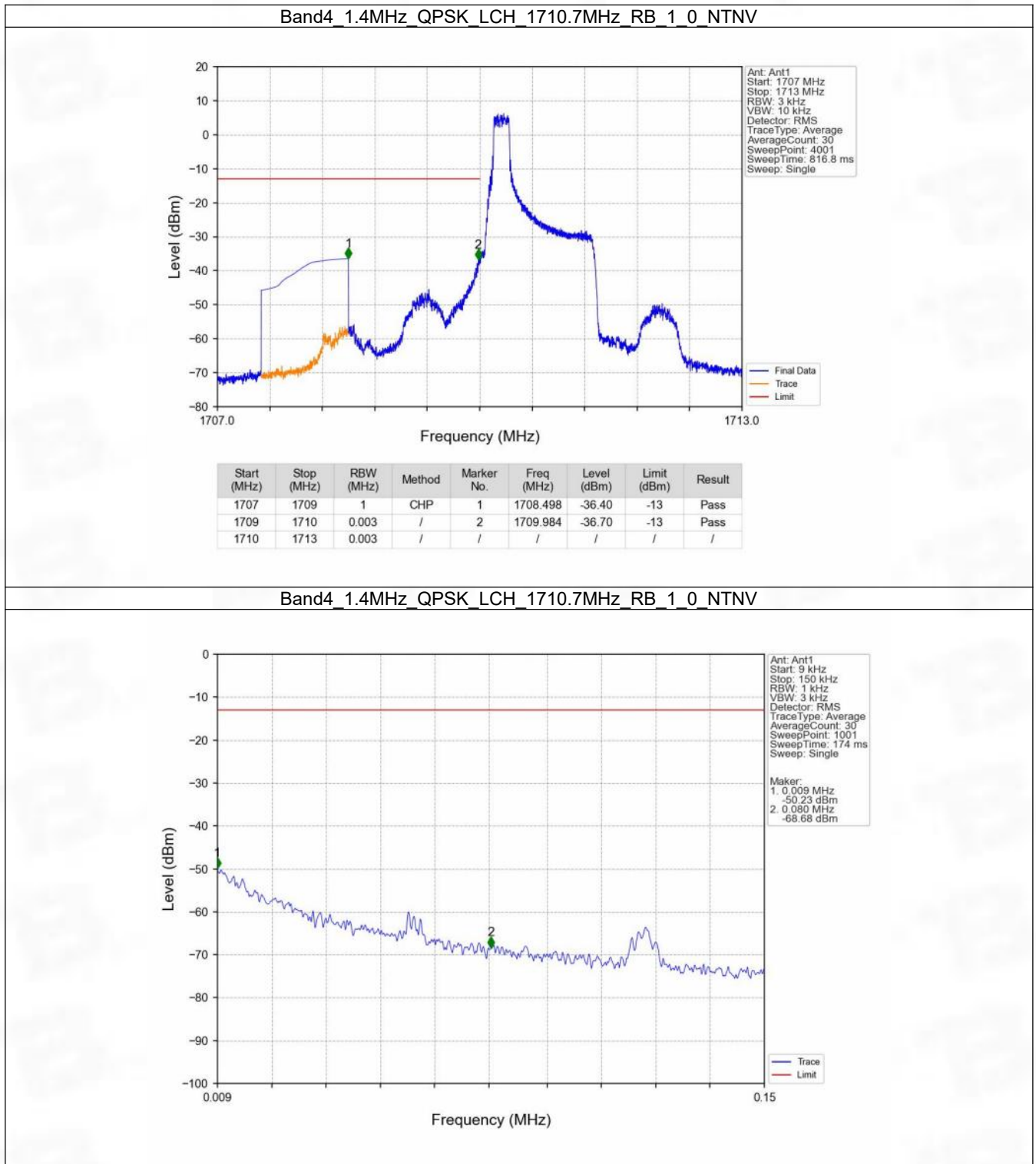
6.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz / NTNV						
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
16QAM	1720	1	0	Refer To Test Graph		Pass

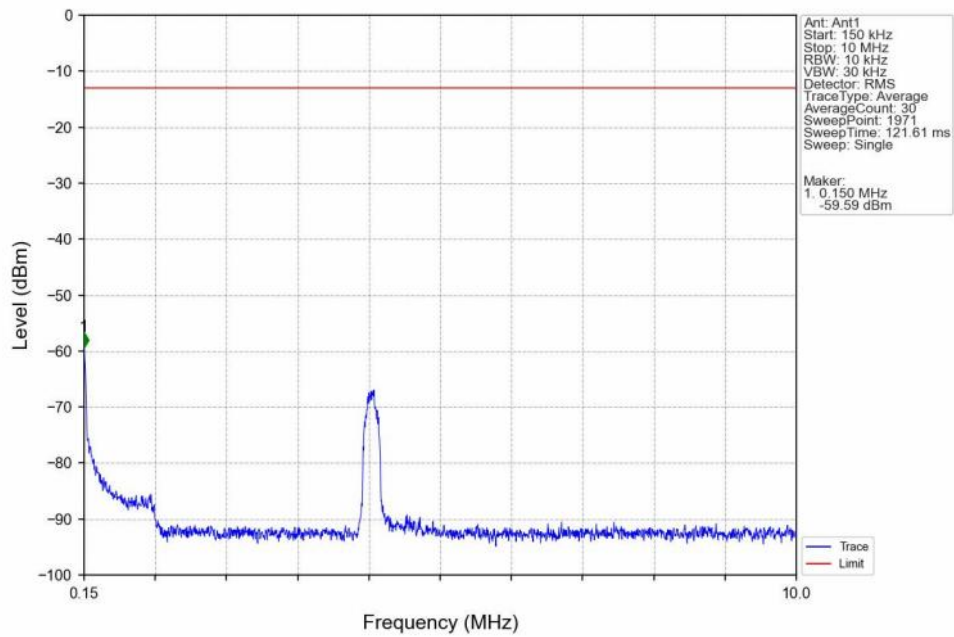
		100	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1745	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass

6.2 Test Graph

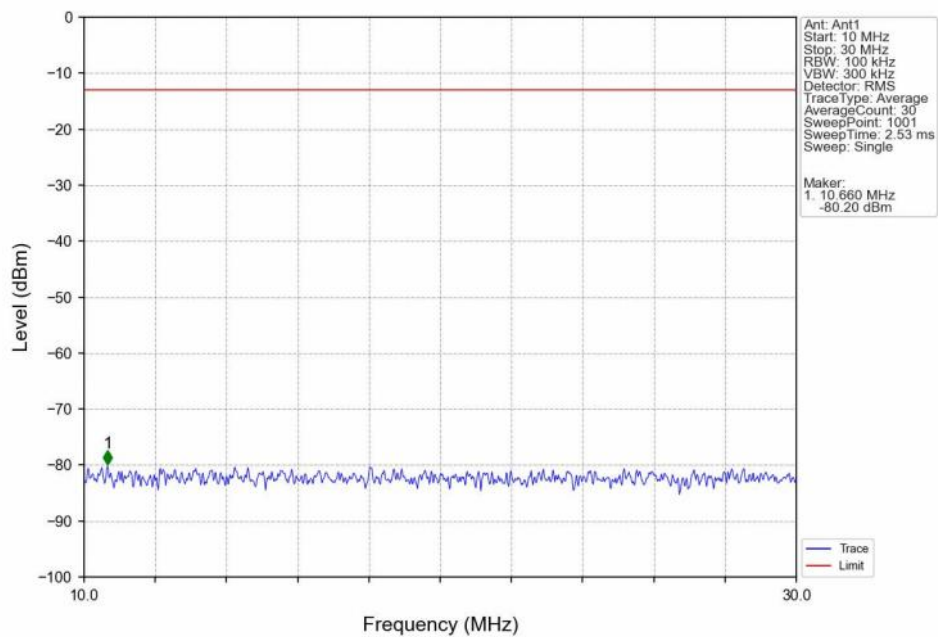
6.2.1 B4_1.4MHz



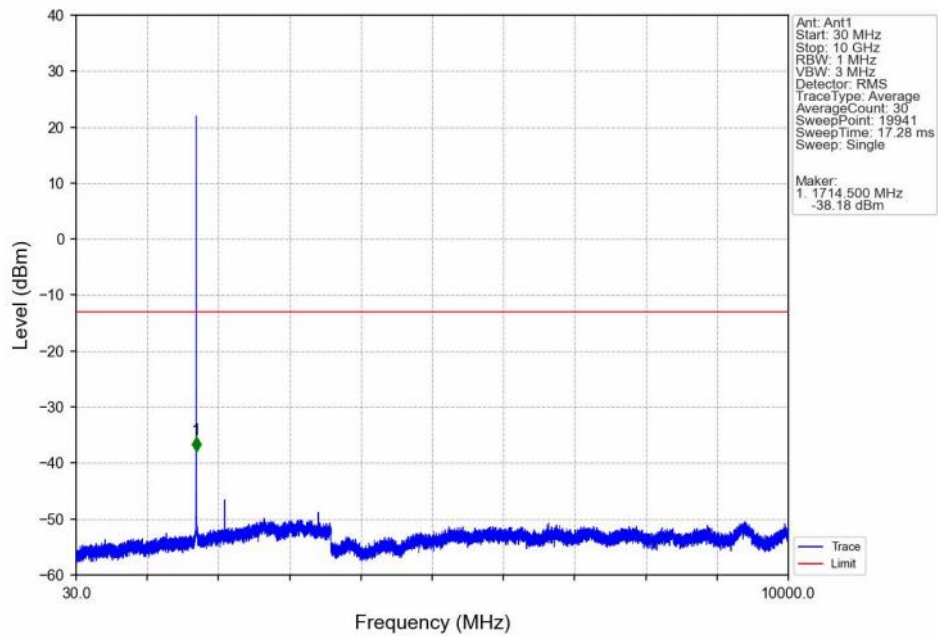
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



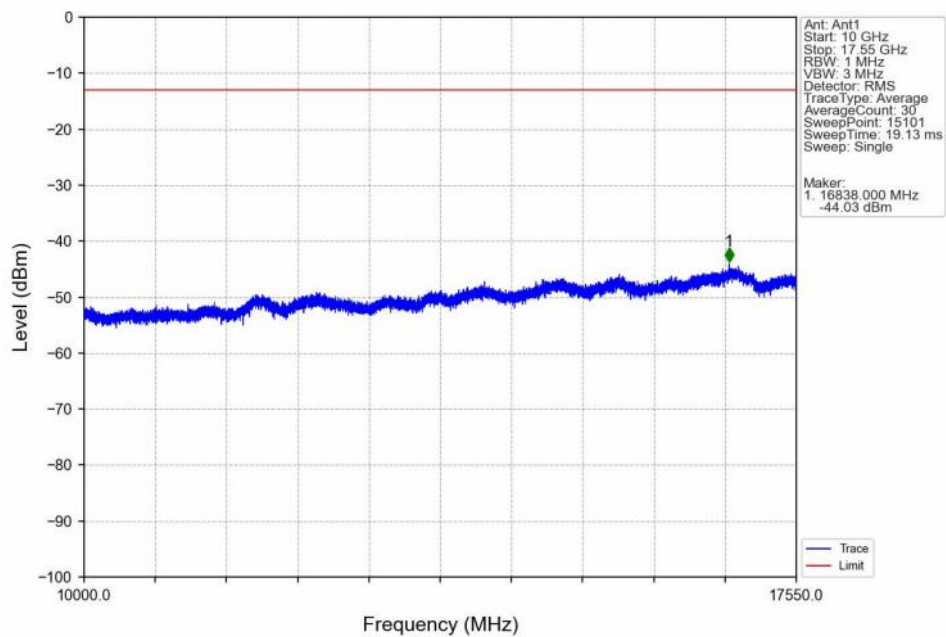
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



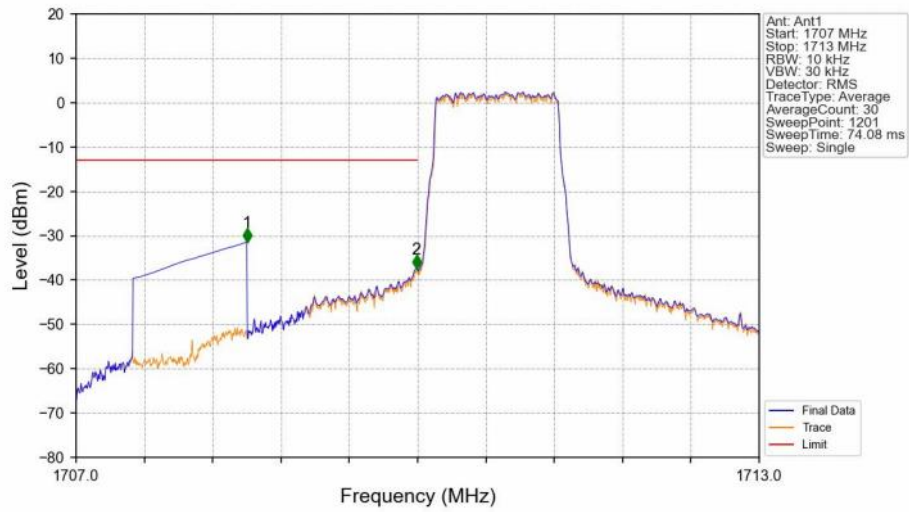
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

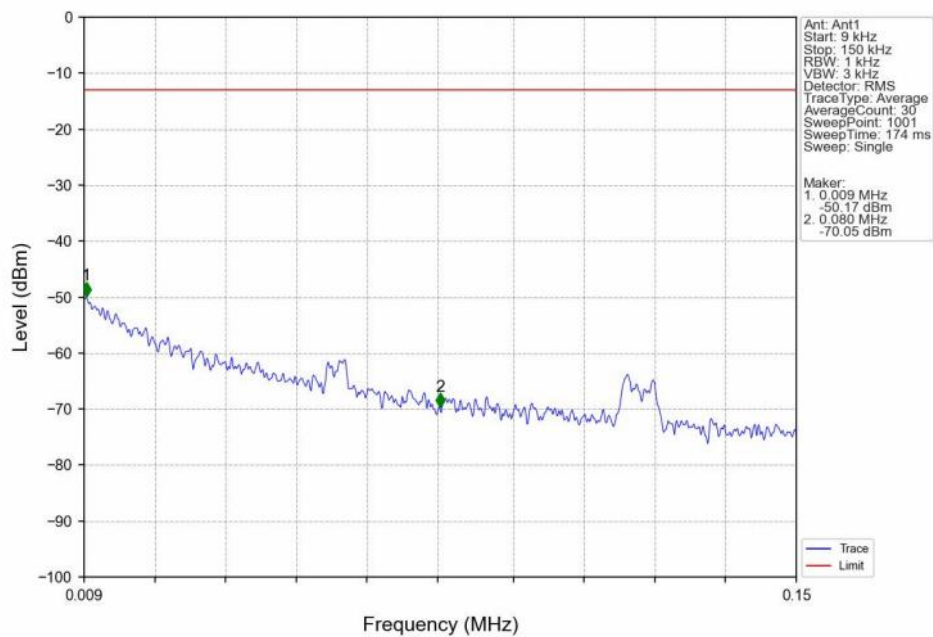


Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

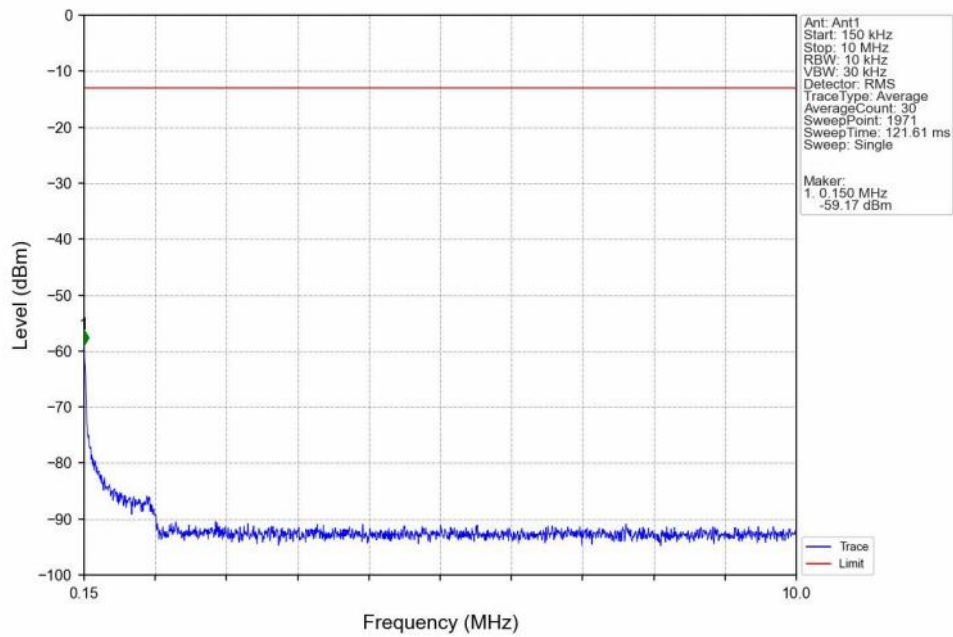


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-31.44	-13	Pass
1709	1710	0.013	CHP	2	1709.990	-37.55	-13	Pass
1710	1713	0.013	CHP	/	/	/	/	/

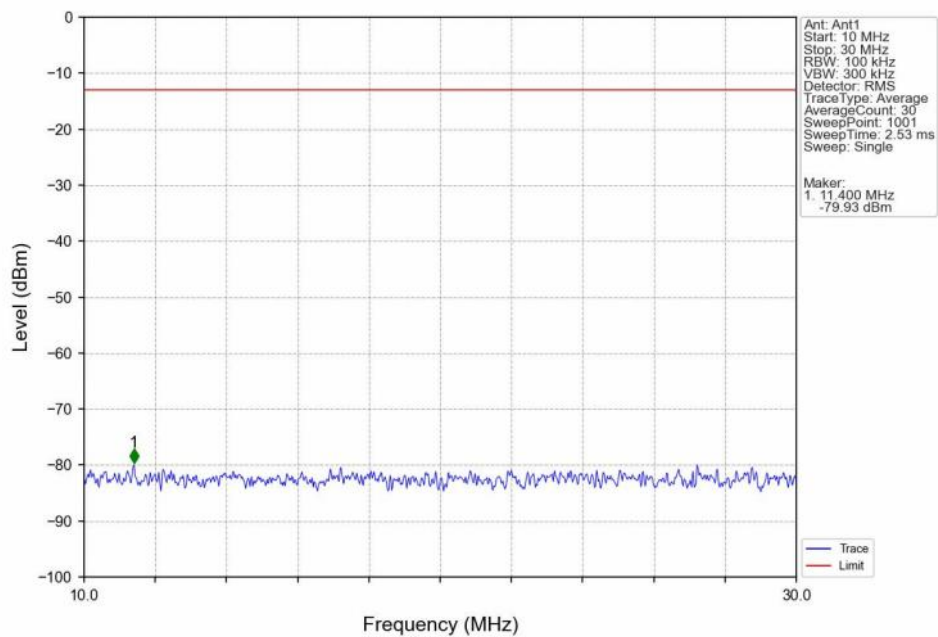
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



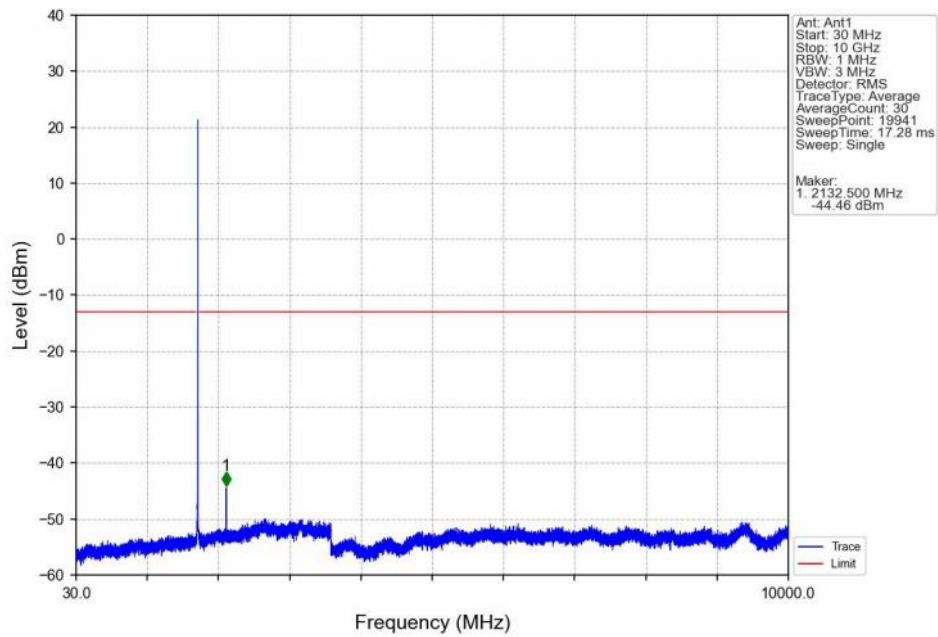
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



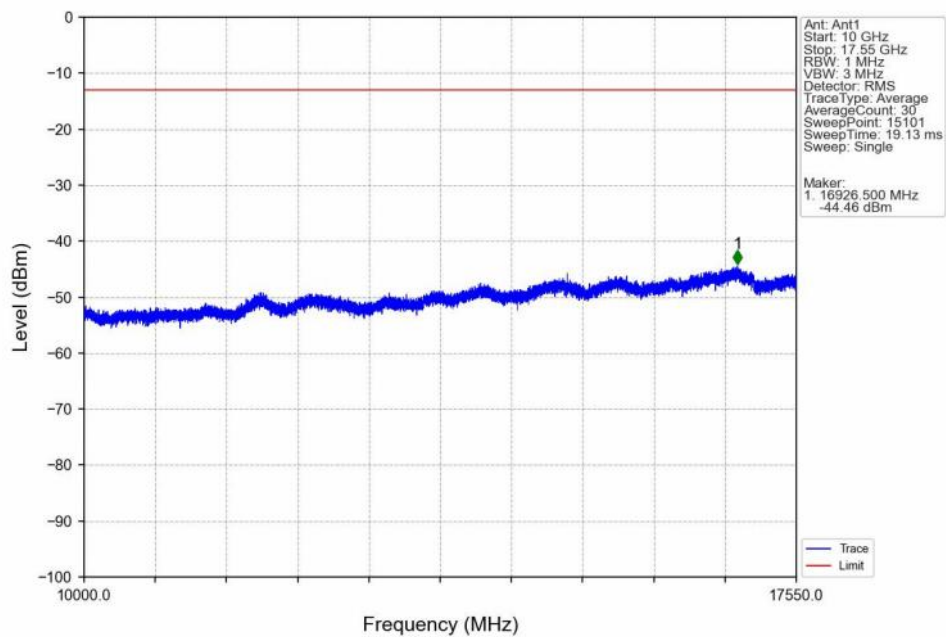
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



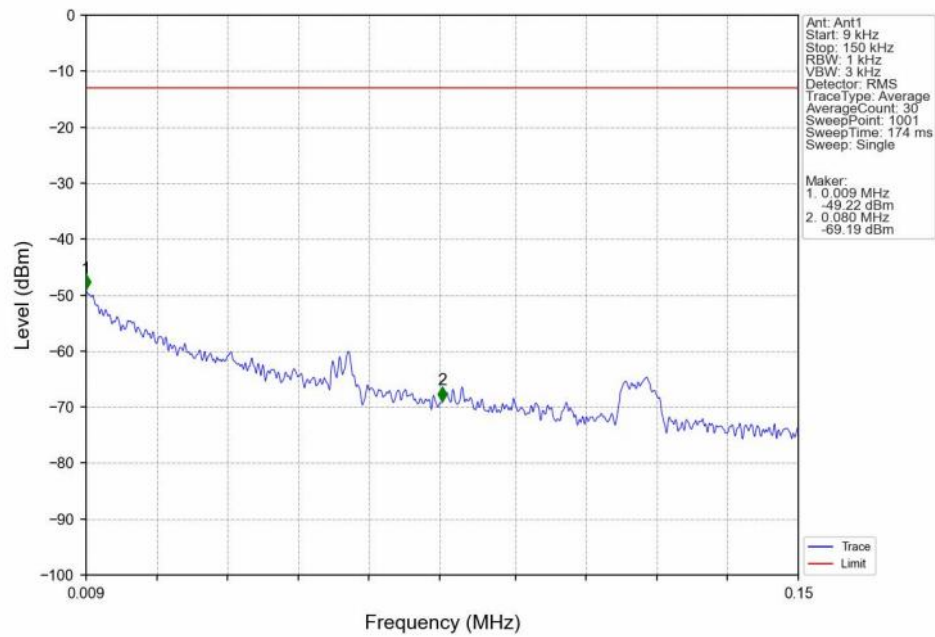
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



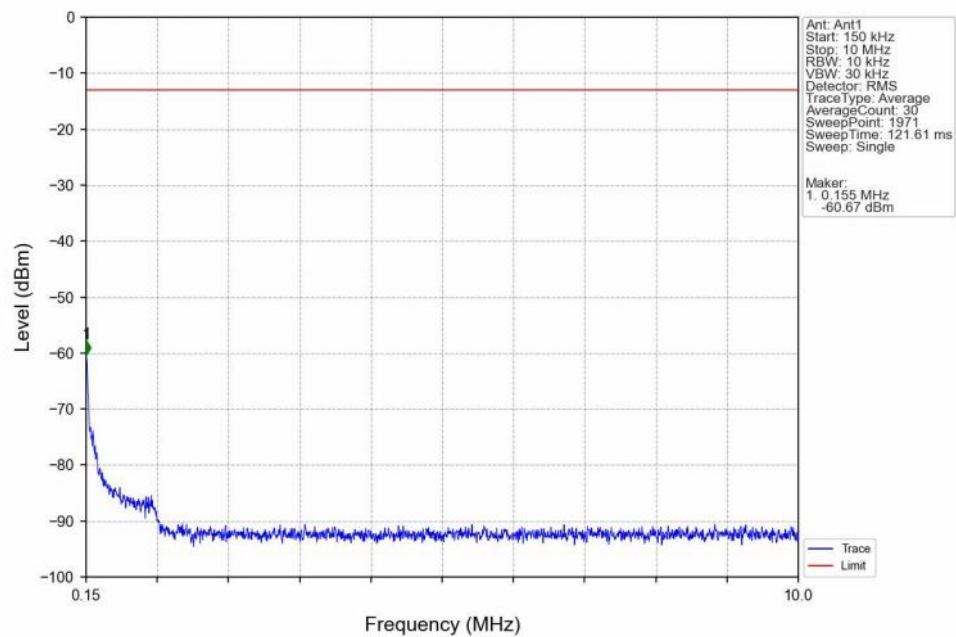
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



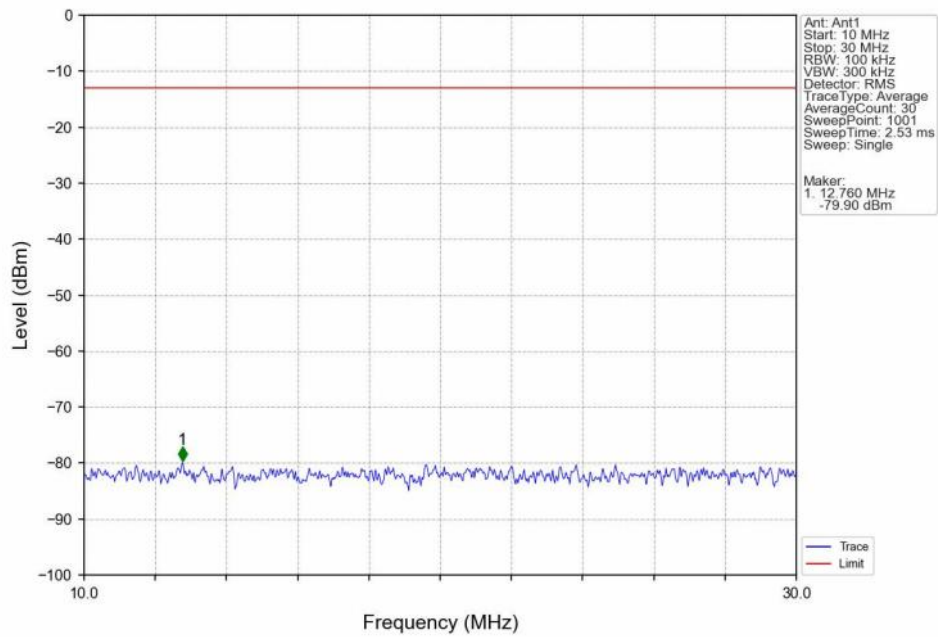
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



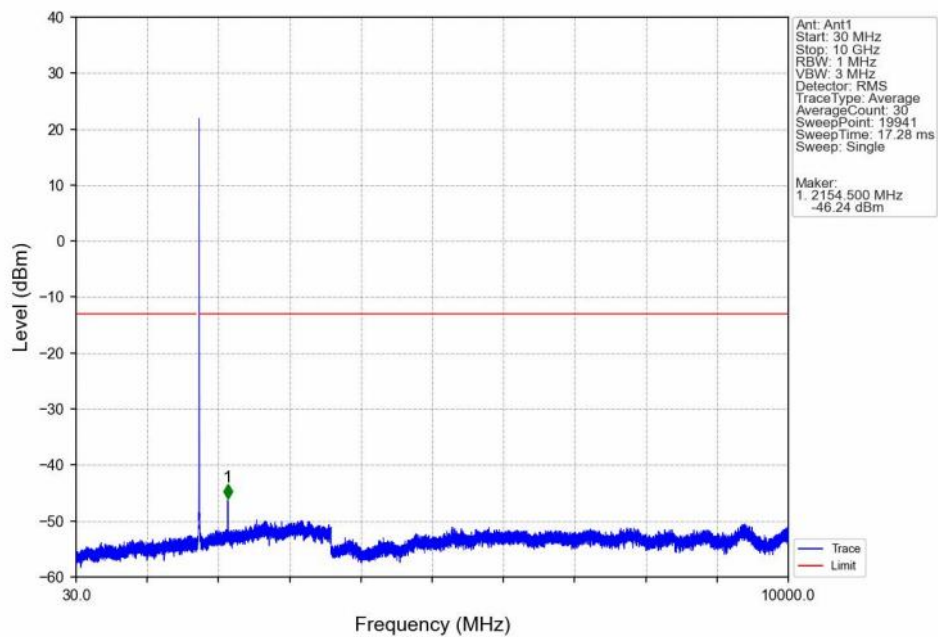
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



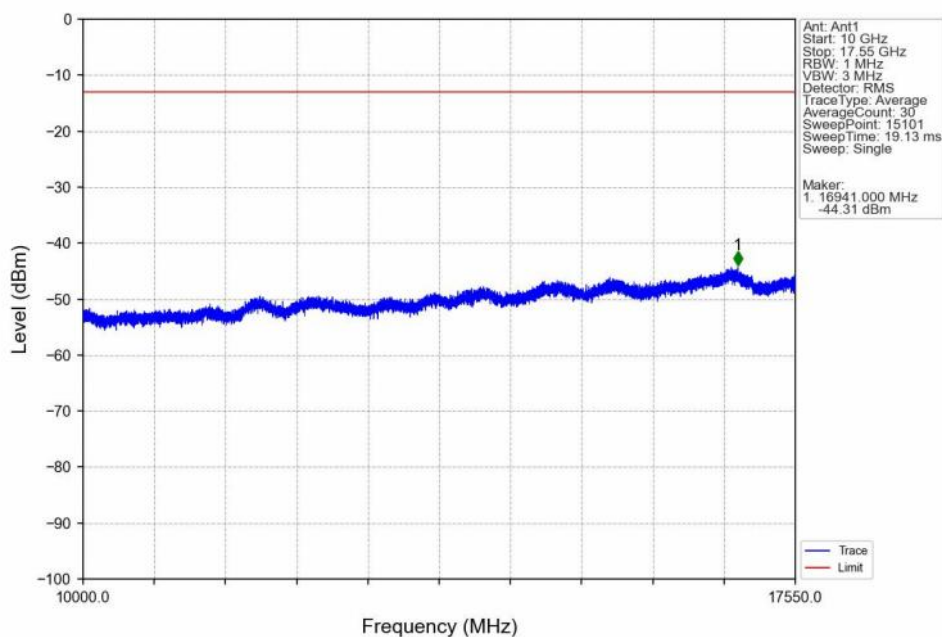
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



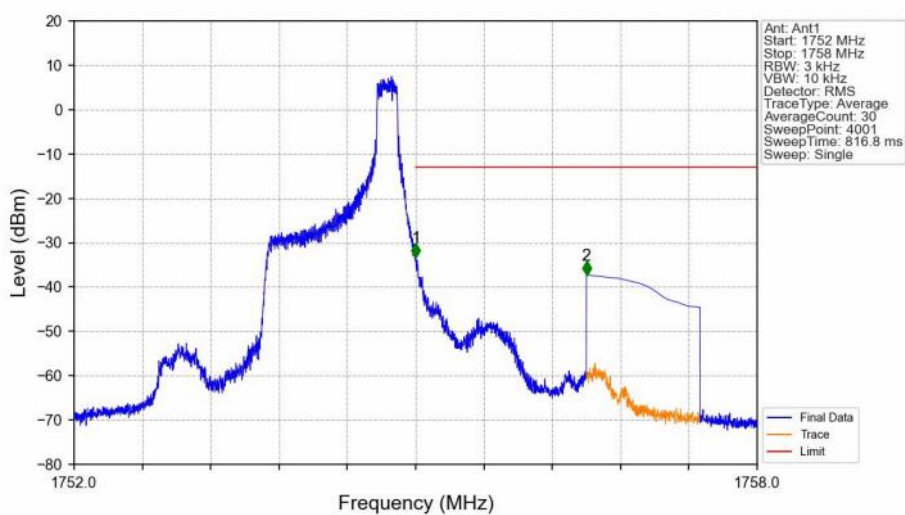
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

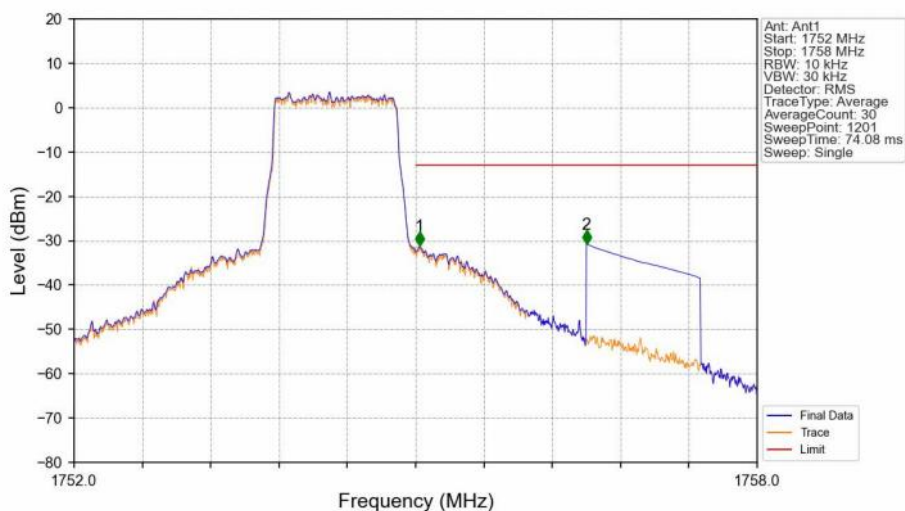


Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



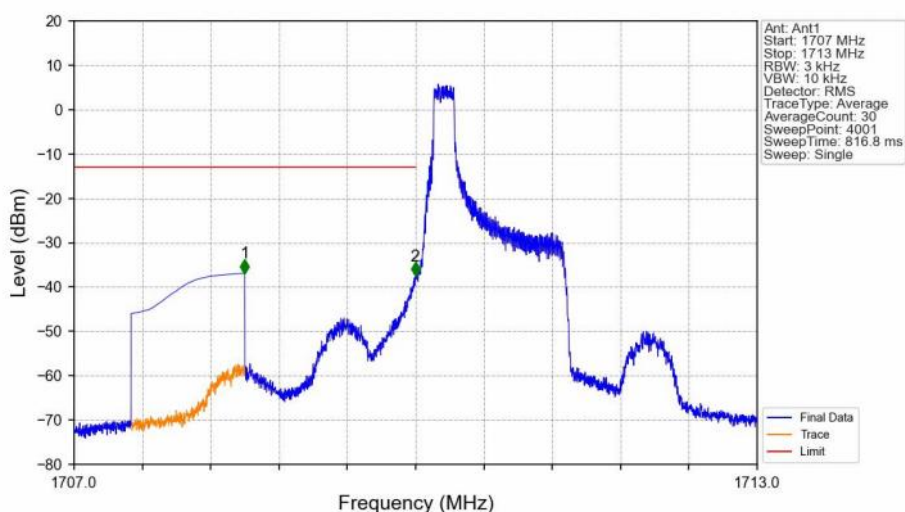
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-33.39	-13	Pass
1756	1758	1	CHP	2	1756.500	-37.25	-13	Pass

Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



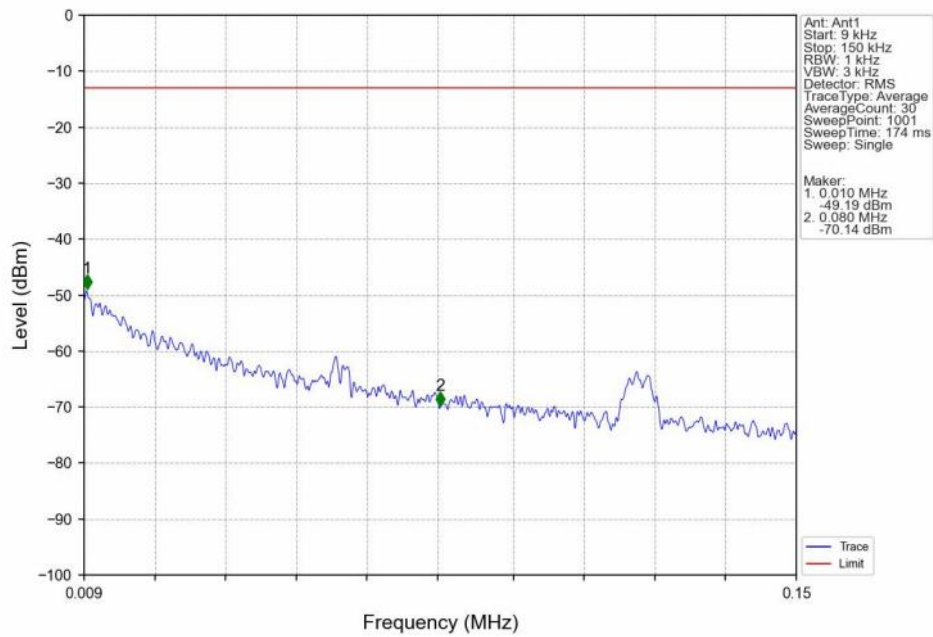
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.013	CHP	/	/	/	/	/
1755	1756	0.013	CHP	1	1755.035	-31.21	-13	Pass
1756	1758	1	CHP	2	1756.500	-30.79	-13	Pass

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

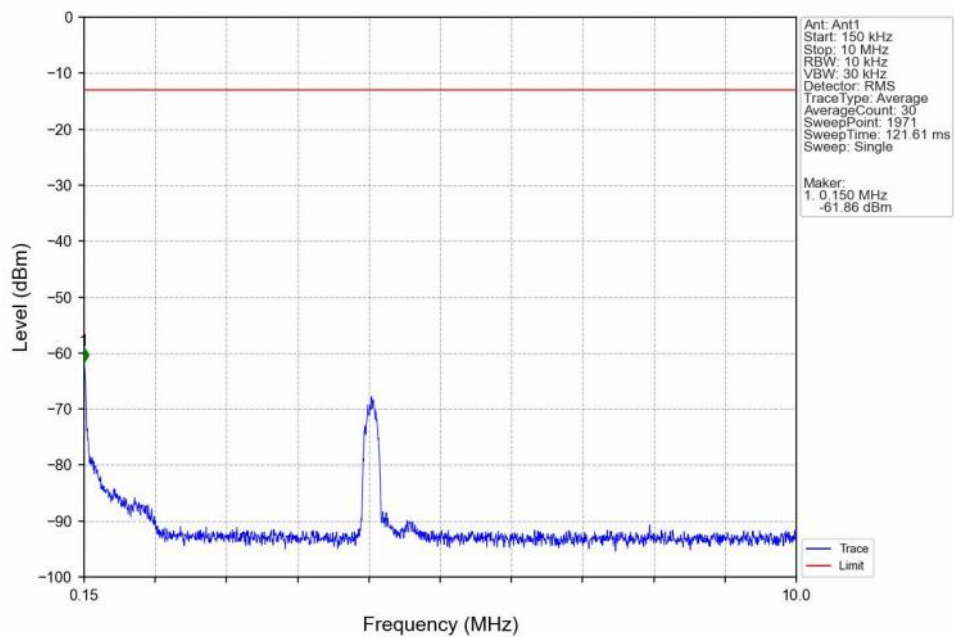


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.498	-36.87	-13	Pass
1709	1710	0.003	/	2	1709.997	-37.52	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

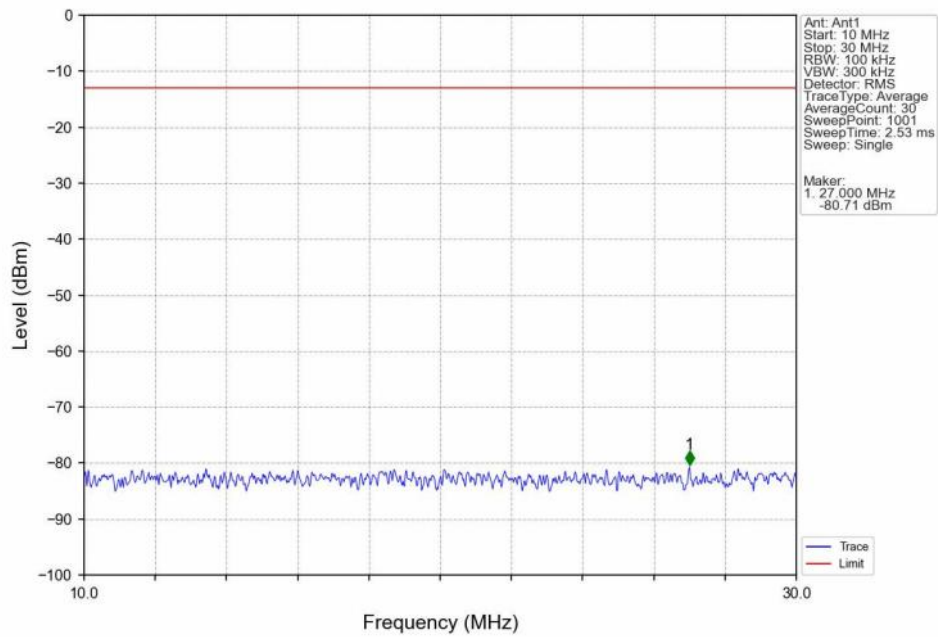
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



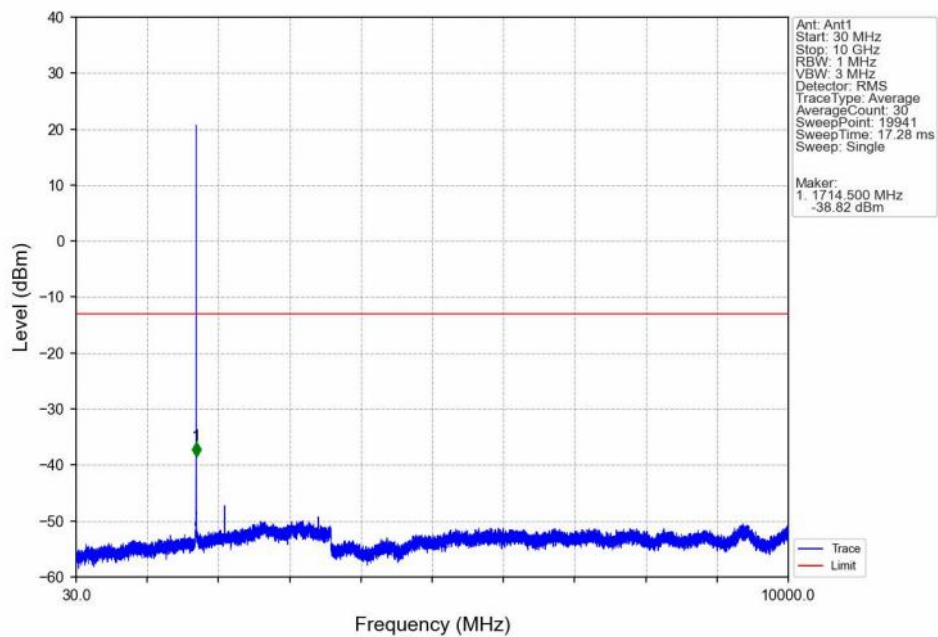
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



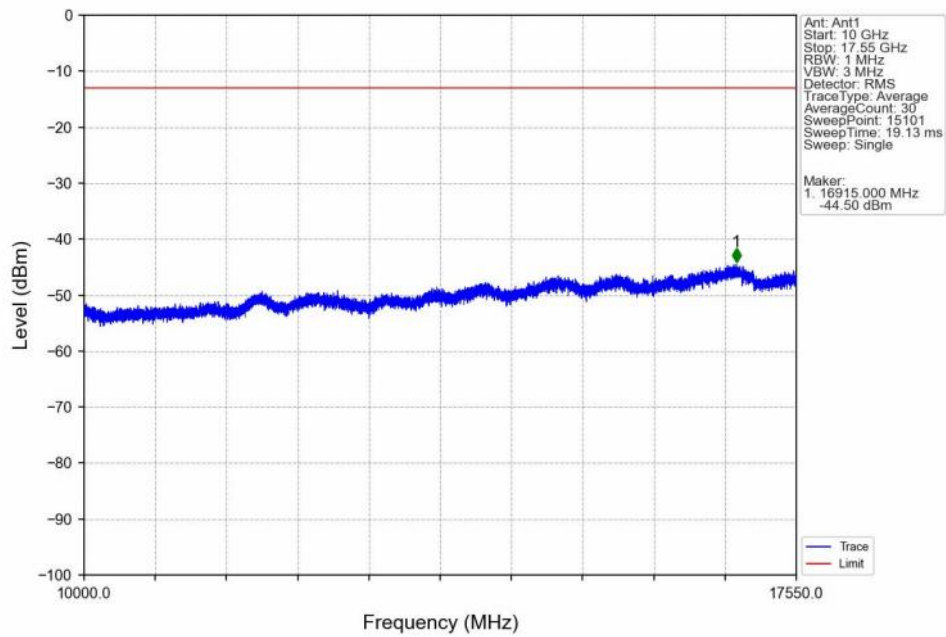
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



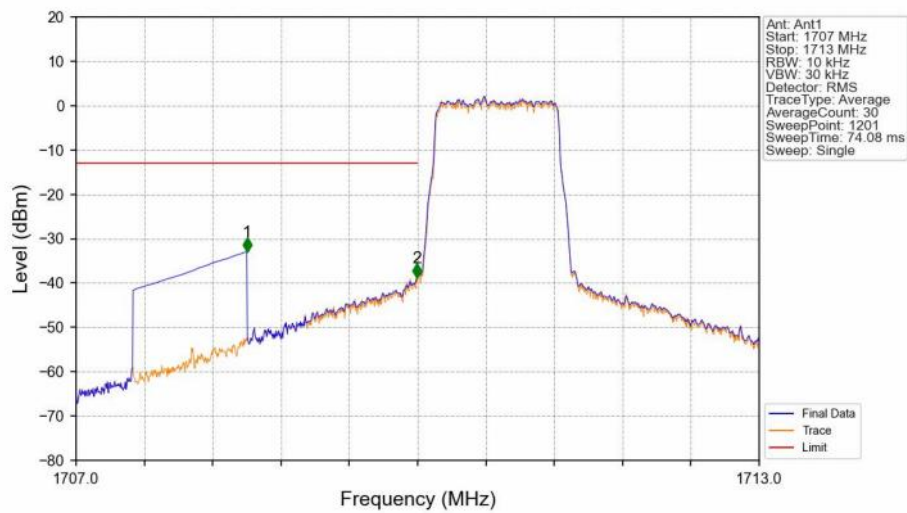
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

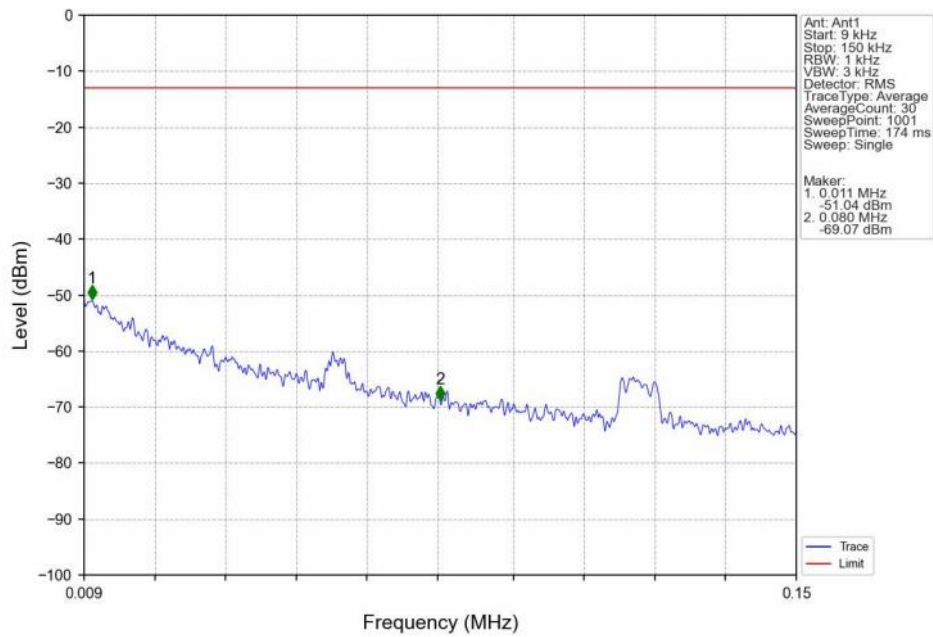


Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV

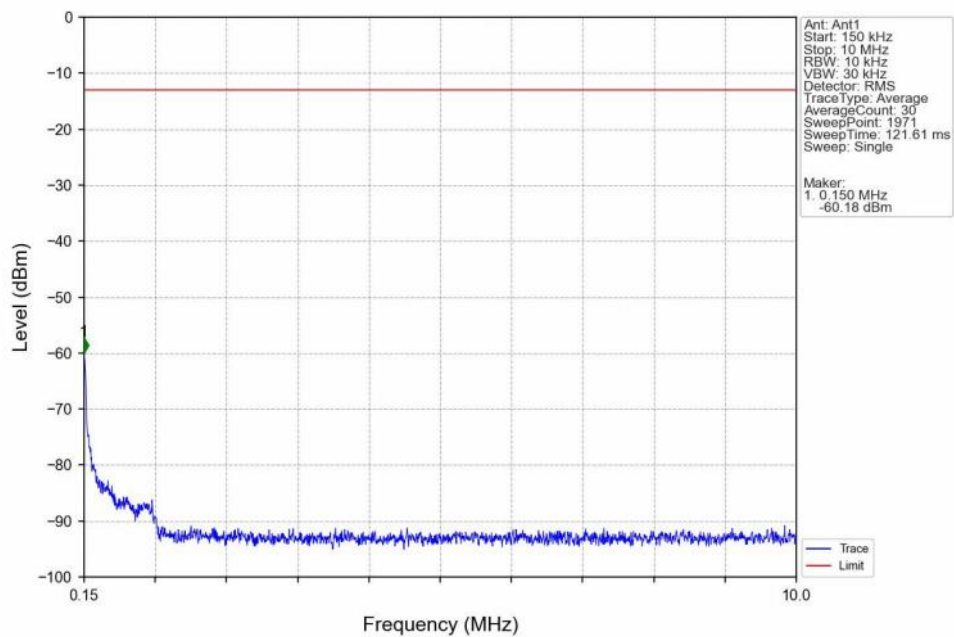


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-32.95	-13	Pass
1709	1710	0.013	CHP	2	1709.995	-38.71	-13	Pass
1710	1713	0.013	CHP	/	/	/	/	/

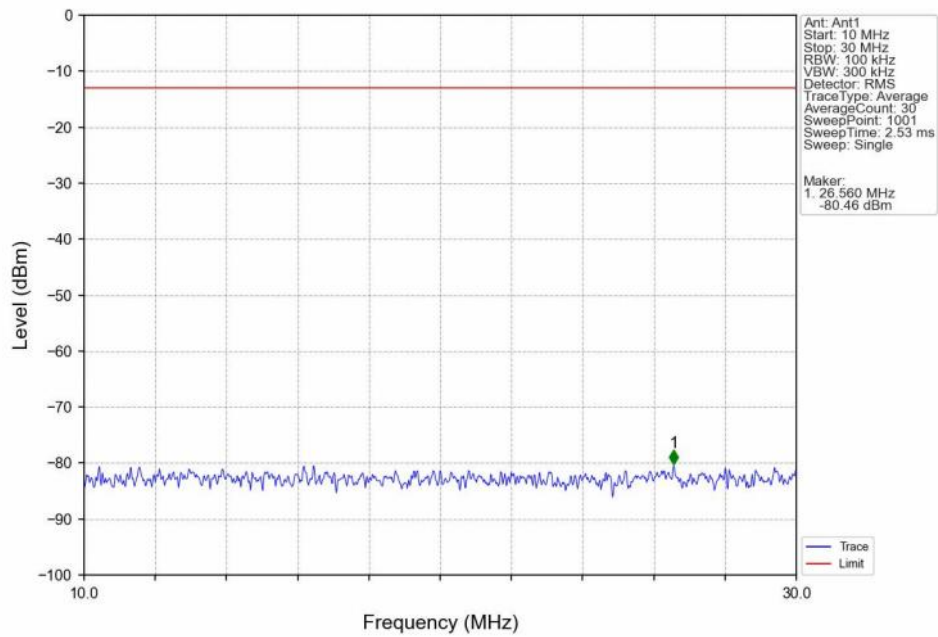
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



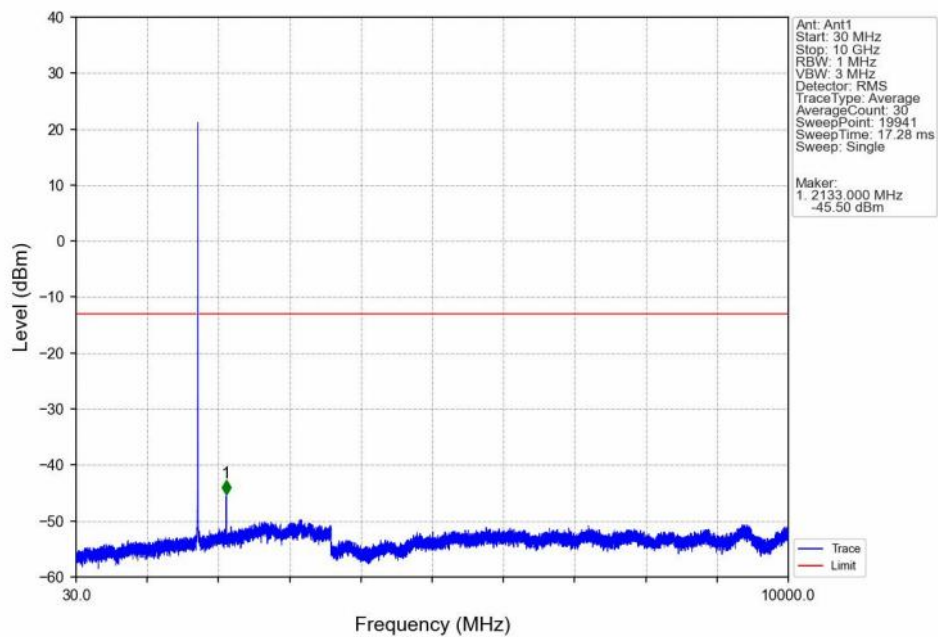
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



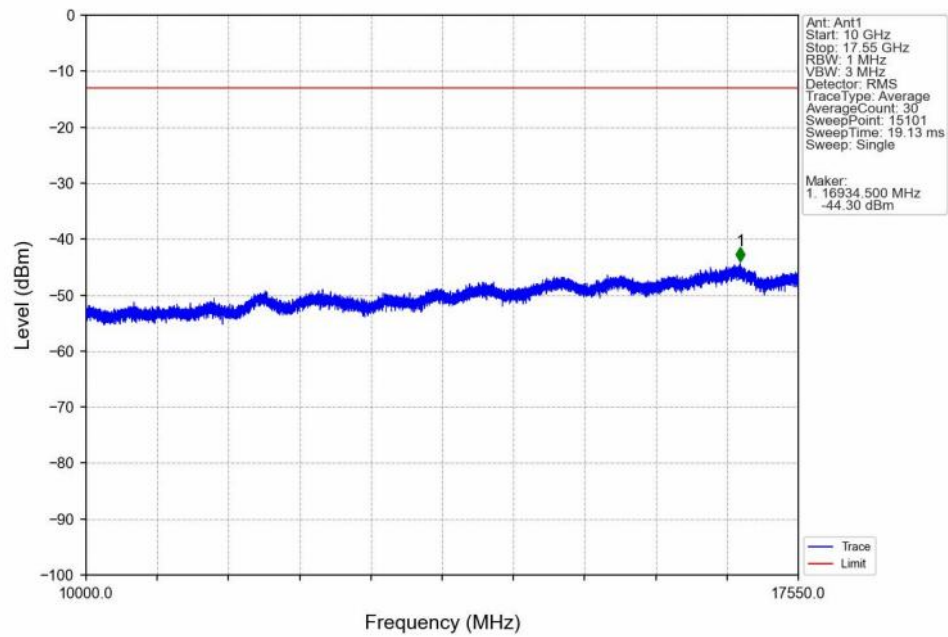
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



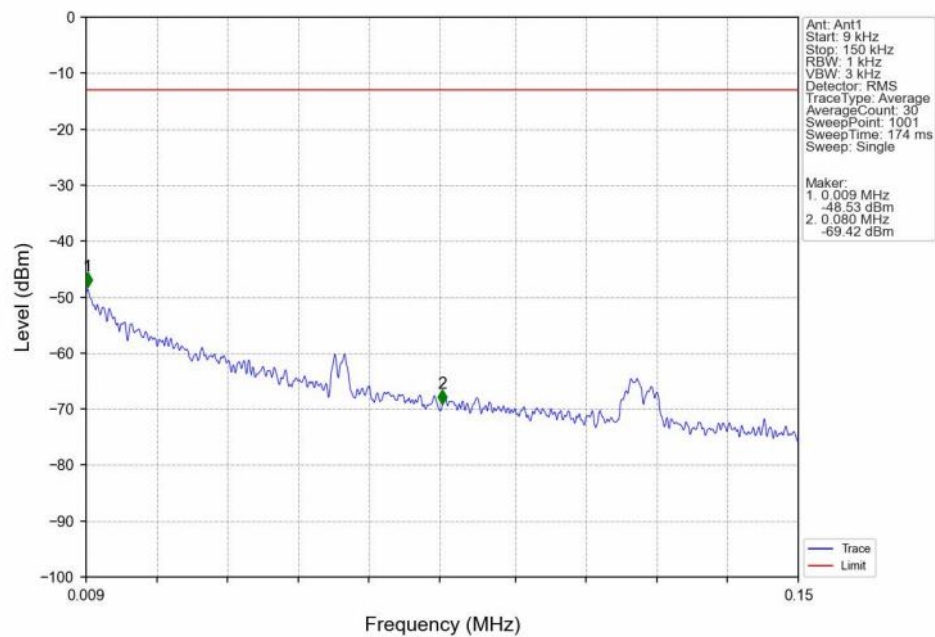
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



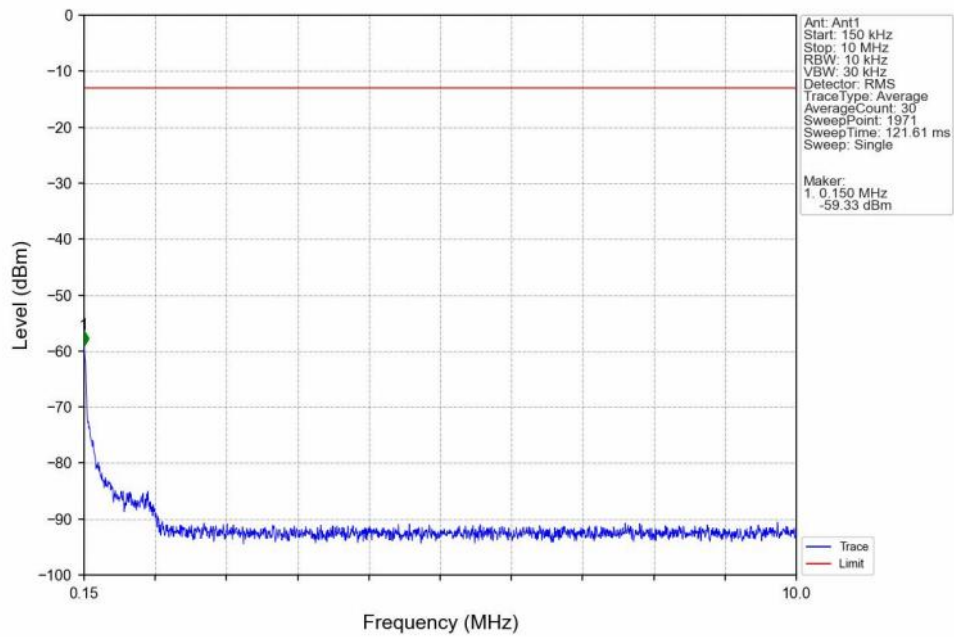
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



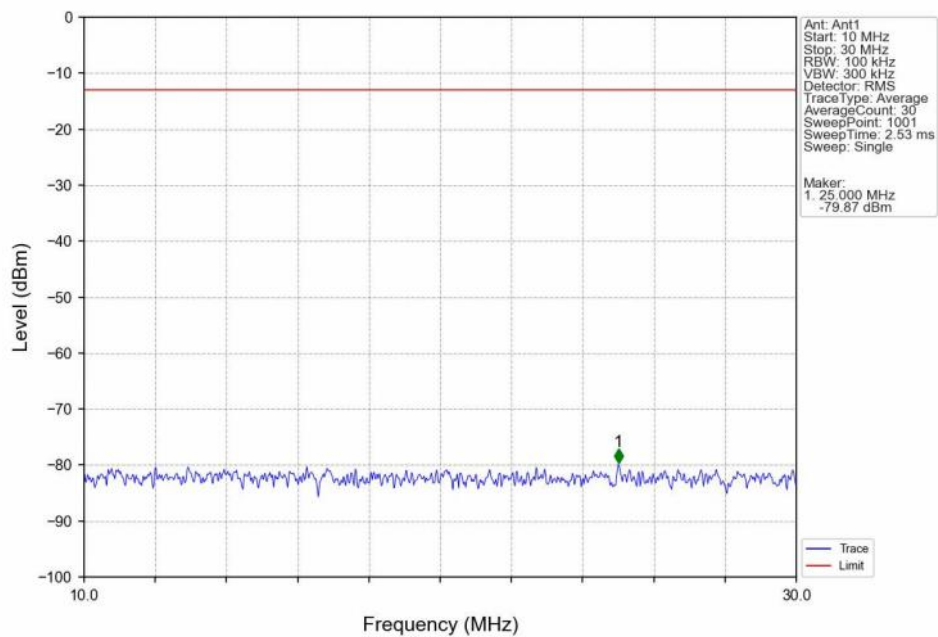
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



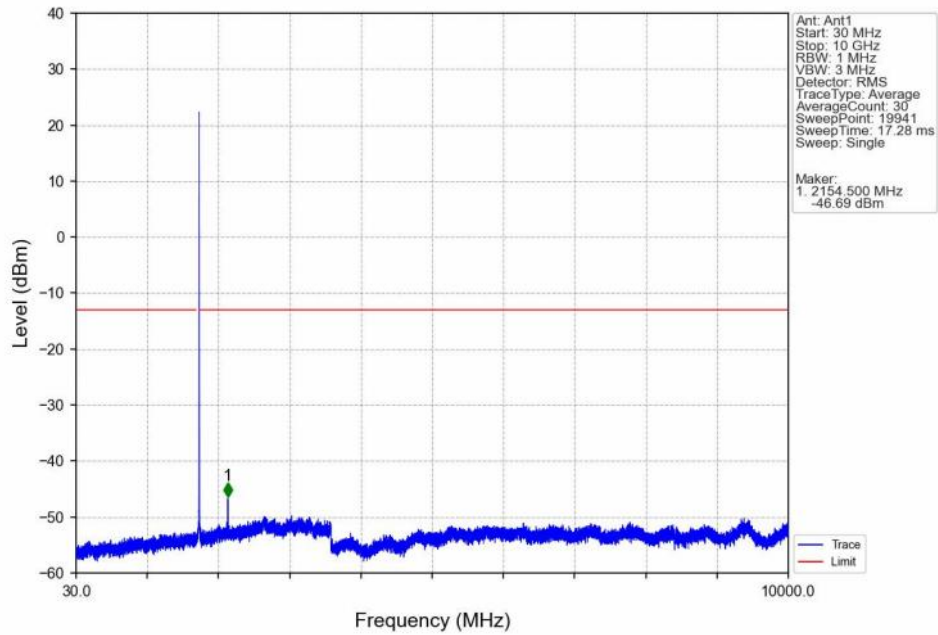
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



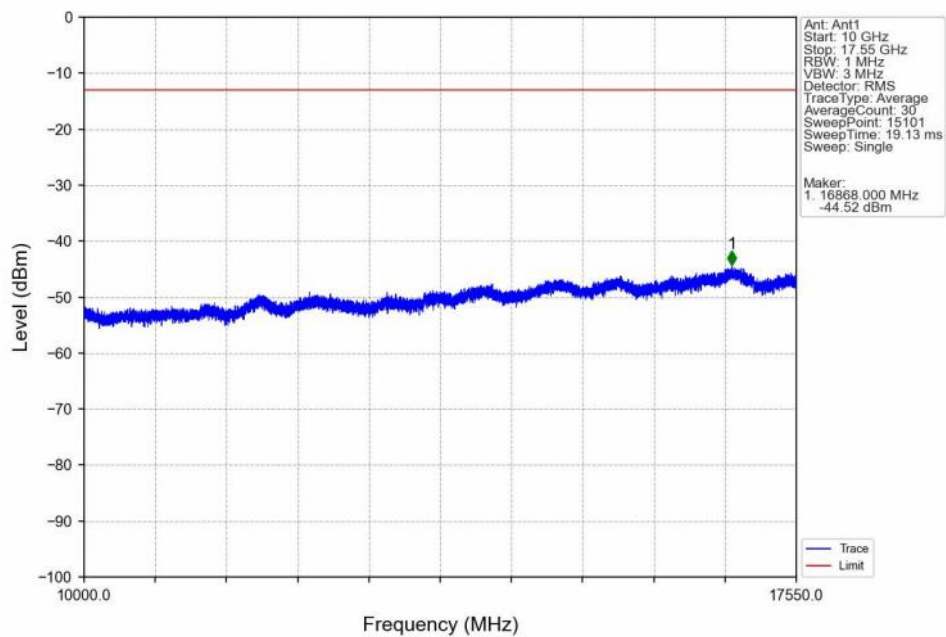
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



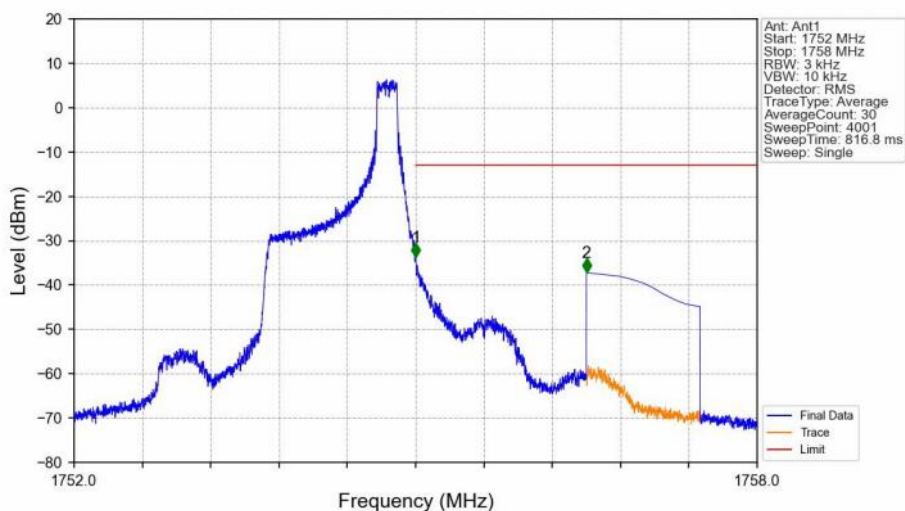
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV

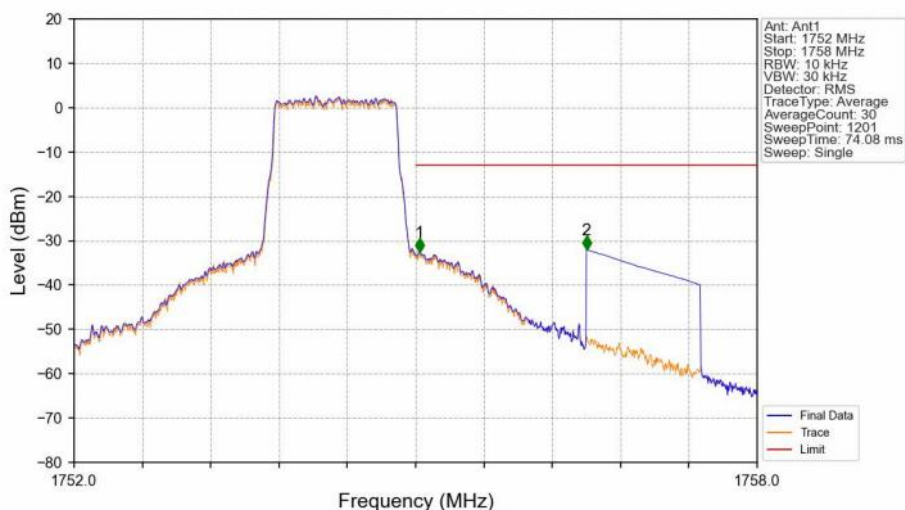


Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-33.66	-13	Pass
1756	1758	1	CHP	2	1756.500	-37.18	-13	Pass

Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.013	CHP	/	/	/	/	/
1755	1756	0.013	CHP	1	1755.035	-32.53	-13	Pass
1756	1758	1	CHP	2	1756.500	-32.07	-13	Pass