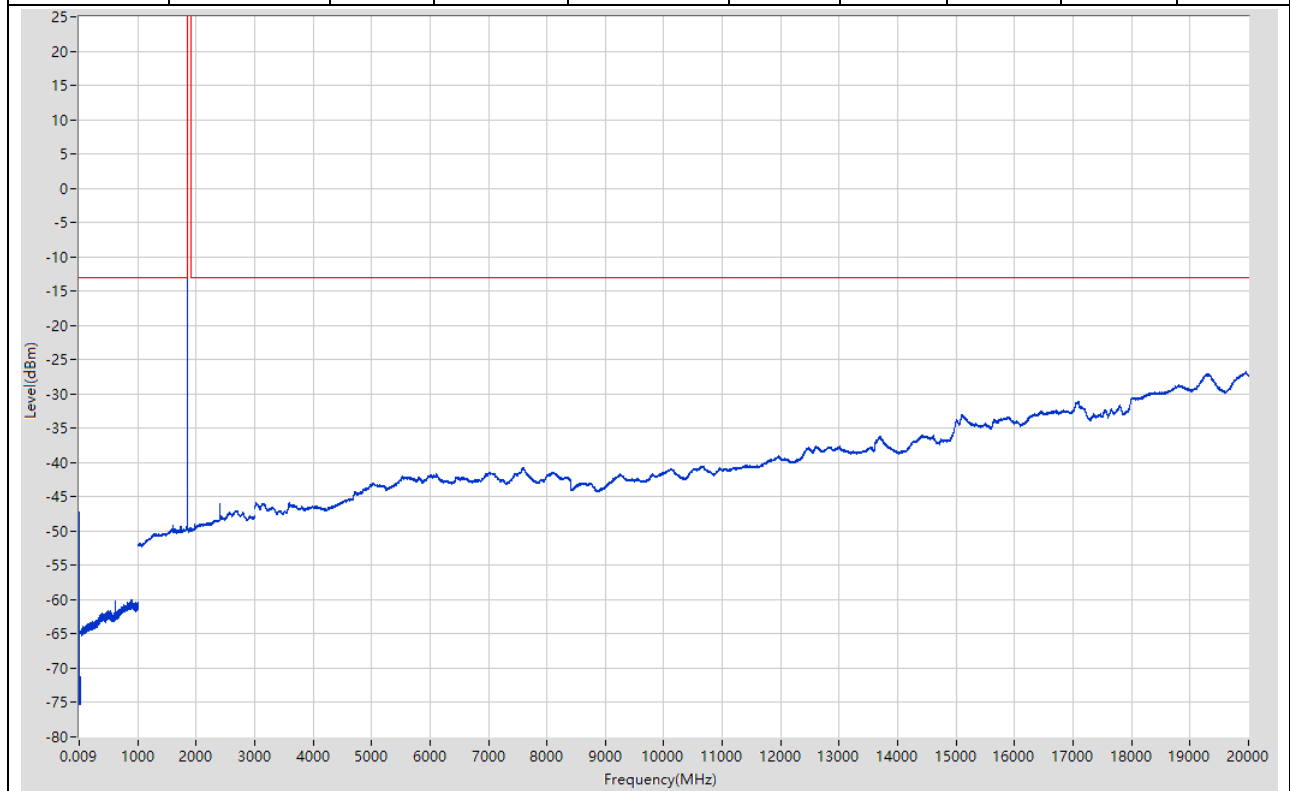


Annex A.5 Spurious Emission at Antenna Terminals

1. NB-IoT_Band2_QPSK_15kHz_1@0_Low

1.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

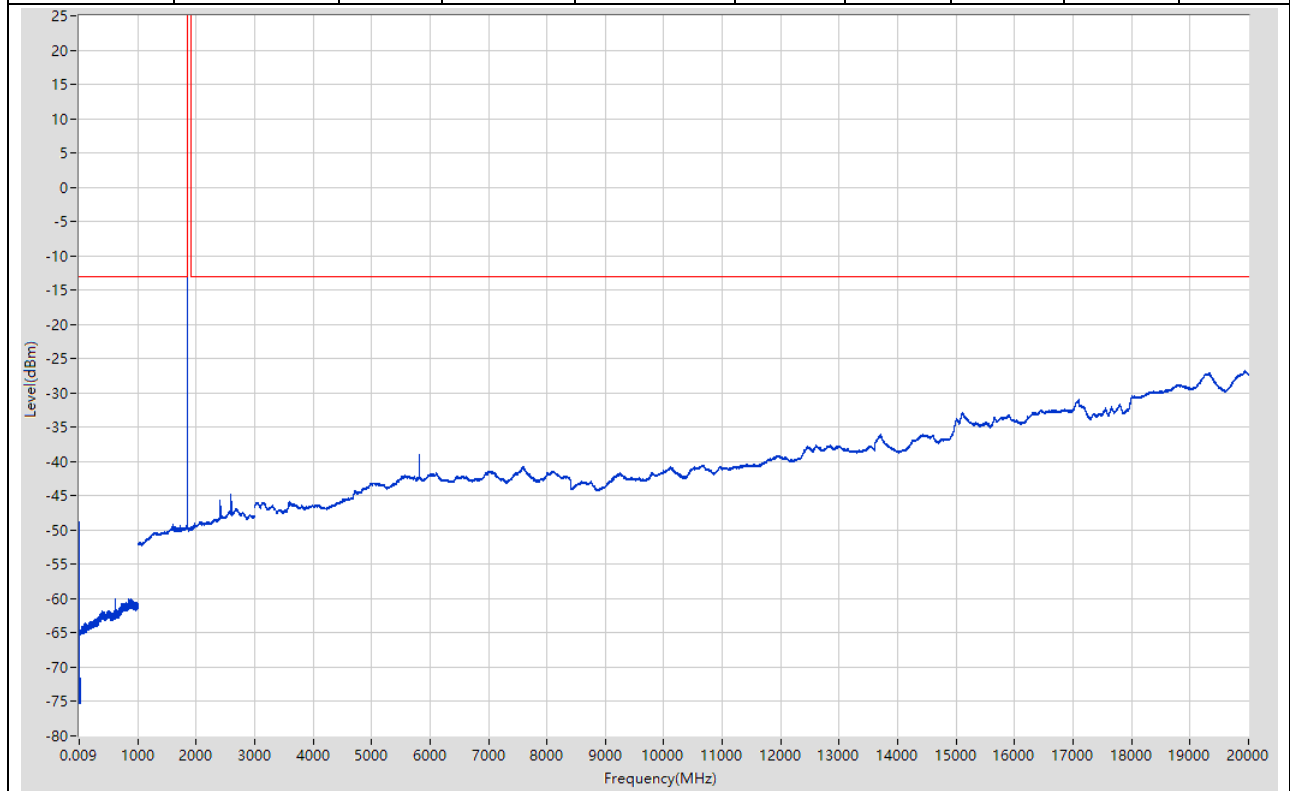
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-47.26	-13	34.26	Pass	401
0.15	30	0.01	RMS	0.15	-55.16	-13	42.16	Pass	5971
30	1000	0.1	RMS	879.3	-59.99	-13	46.99	Pass	19401
1000	1840	1	RMS	1604	-49.18	-13	36.18	Pass	1681
1840	1920	1	RMS	1850	19.21	60	40.79	Pass	401
1920	3000	1	RMS	2409	-46.02	-13	33.02	Pass	2161
3000	20000	1	RMS	19957	-26.79	-13	13.79	Pass	34001



2. NB-IoT_Band2_BPSK_15kHz_1@0_Low

2.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

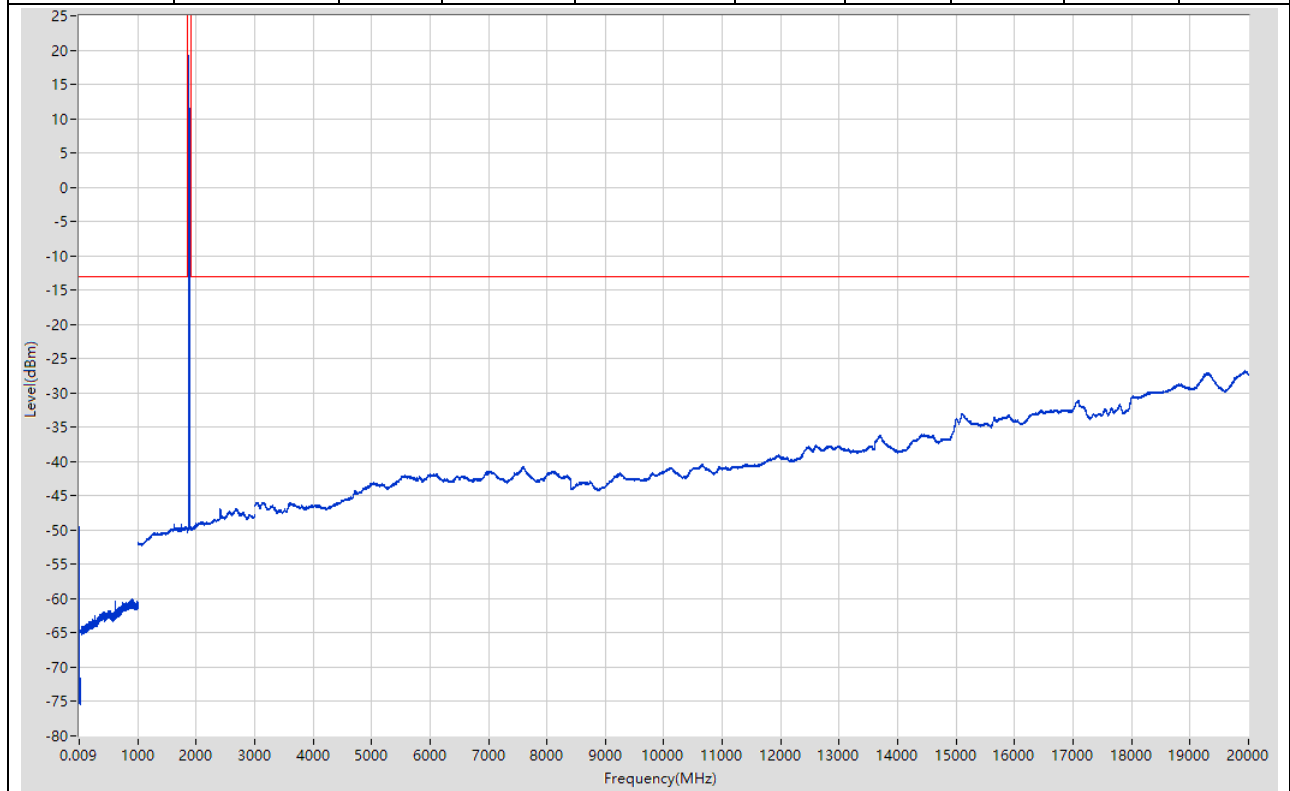
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-48.87	-13	35.87	Pass	401
0.15	30	0.01	RMS	0.15	-56.07	-13	43.07	Pass	5971
30	1000	0.1	RMS	892.2	-59.96	-13	46.96	Pass	19401
1000	1840	1	RMS	1604	-49.12	-13	36.12	Pass	1681
1840	1920	1	RMS	1850	19.54	60	40.46	Pass	401
1920	3000	1	RMS	2598	-44.69	-13	31.69	Pass	2161
3000	20000	1	RMS	19932	-26.72	-13	13.72	Pass	34001



3. NB-IoT_Band2_BPSK_15kHz_1@0_Mid

3.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

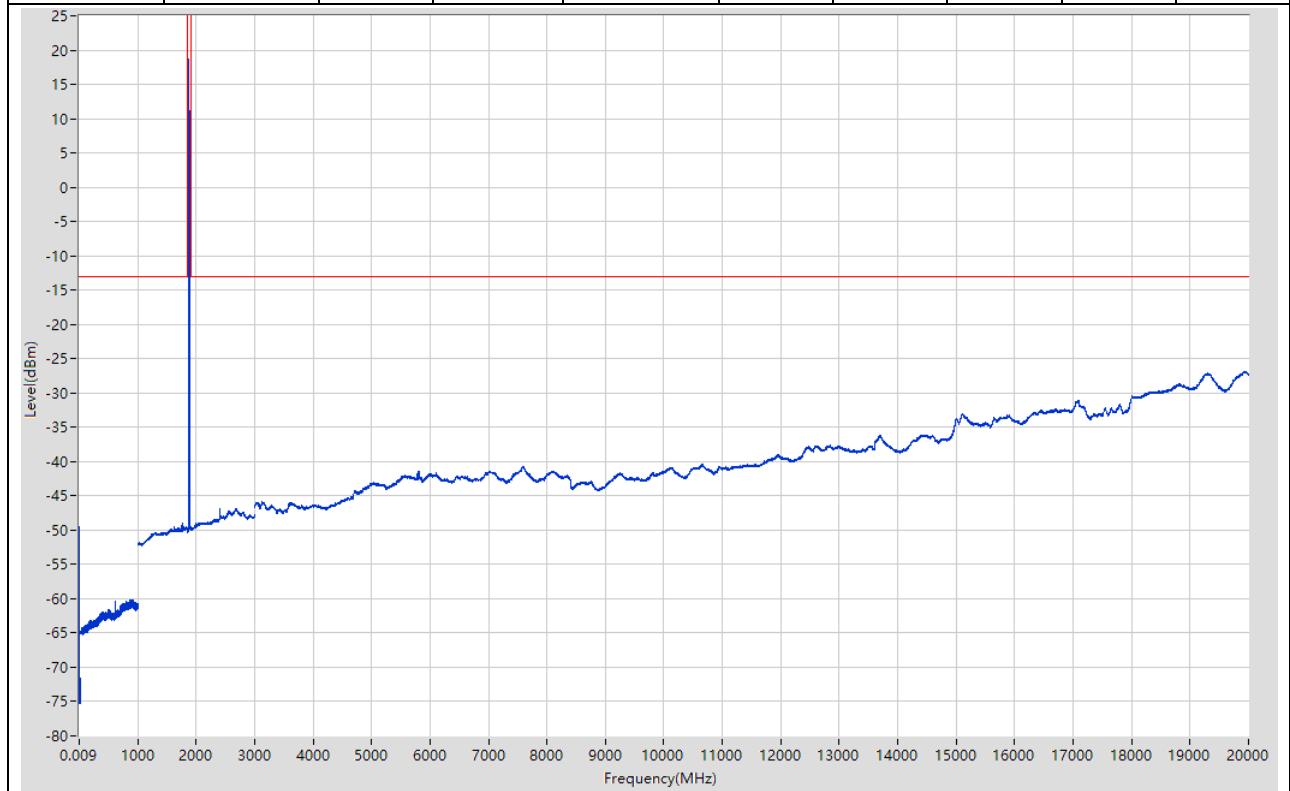
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-49.58	-13	36.58	Pass	401
0.15	30	0.01	RMS	0.16	-55.35	-13	42.35	Pass	5971
30	1000	0.1	RMS	896.2	-60.07	-13	47.07	Pass	19401
1000	1840	1	RMS	1634	-49.07	-13	36.07	Pass	1681
1840	1920	1	RMS	1880	19.25	60	40.75	Pass	401
1920	3000	1	RMS	2409	-46.83	-13	33.83	Pass	2161
3000	20000	1	RMS	19948	-26.79	-13	13.79	Pass	34001



4. NB-IoT_Band2_QPSK_15kHz_1@0_Mid

4.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

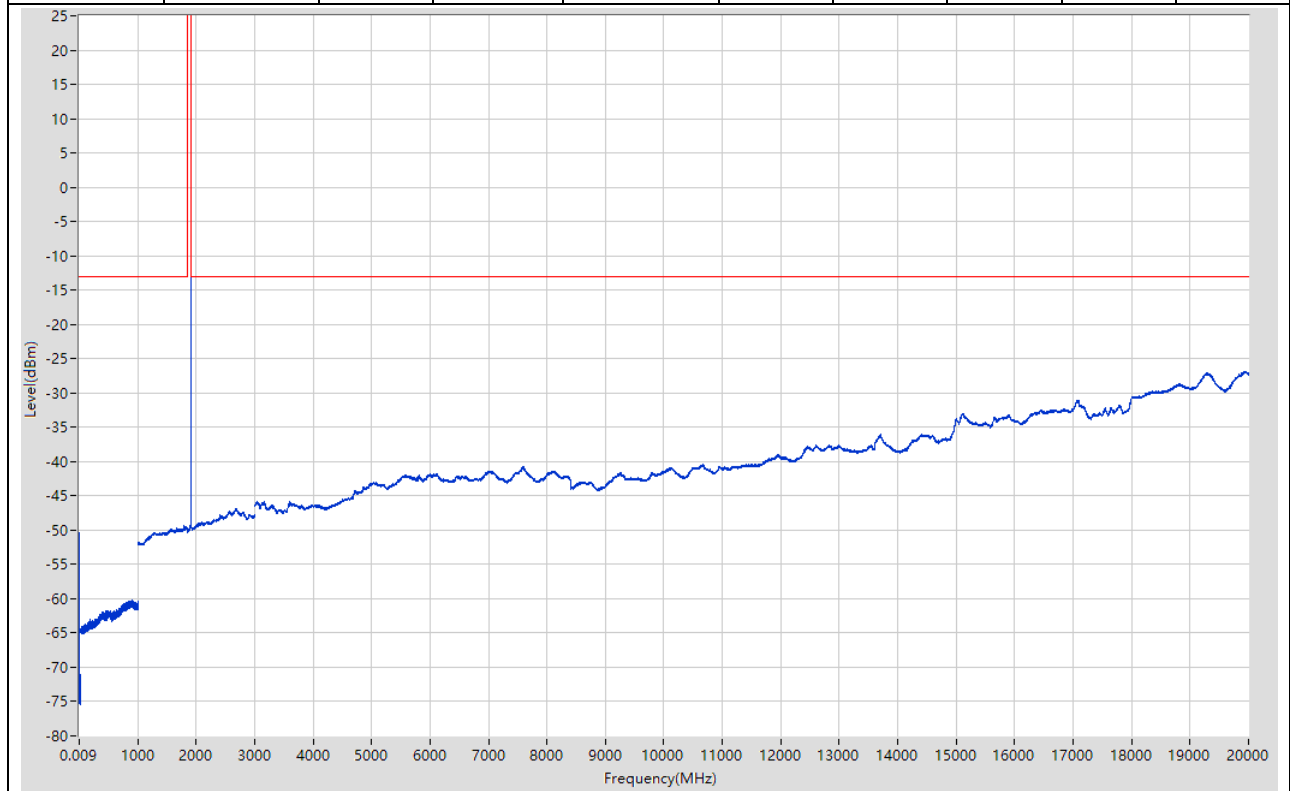
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-49.42	-13	36.42	Pass	401
0.15	30	0.01	RMS	0.15	-55.51	-13	42.51	Pass	5971
30	1000	0.1	RMS	924.2	-60.13	-13	47.13	Pass	19401
1000	1840	1	RMS	1778	-49.03	-13	36.03	Pass	1681
1840	1920	1	RMS	1880	18.71	60	41.29	Pass	401
1920	3000	1	RMS	2407	-46.8	-13	33.8	Pass	2161
3000	20000	1	RMS	19939	-26.82	-13	13.82	Pass	34001



5. NB-IoT_Band2_QPSK_15kHz_1@0_High

5.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

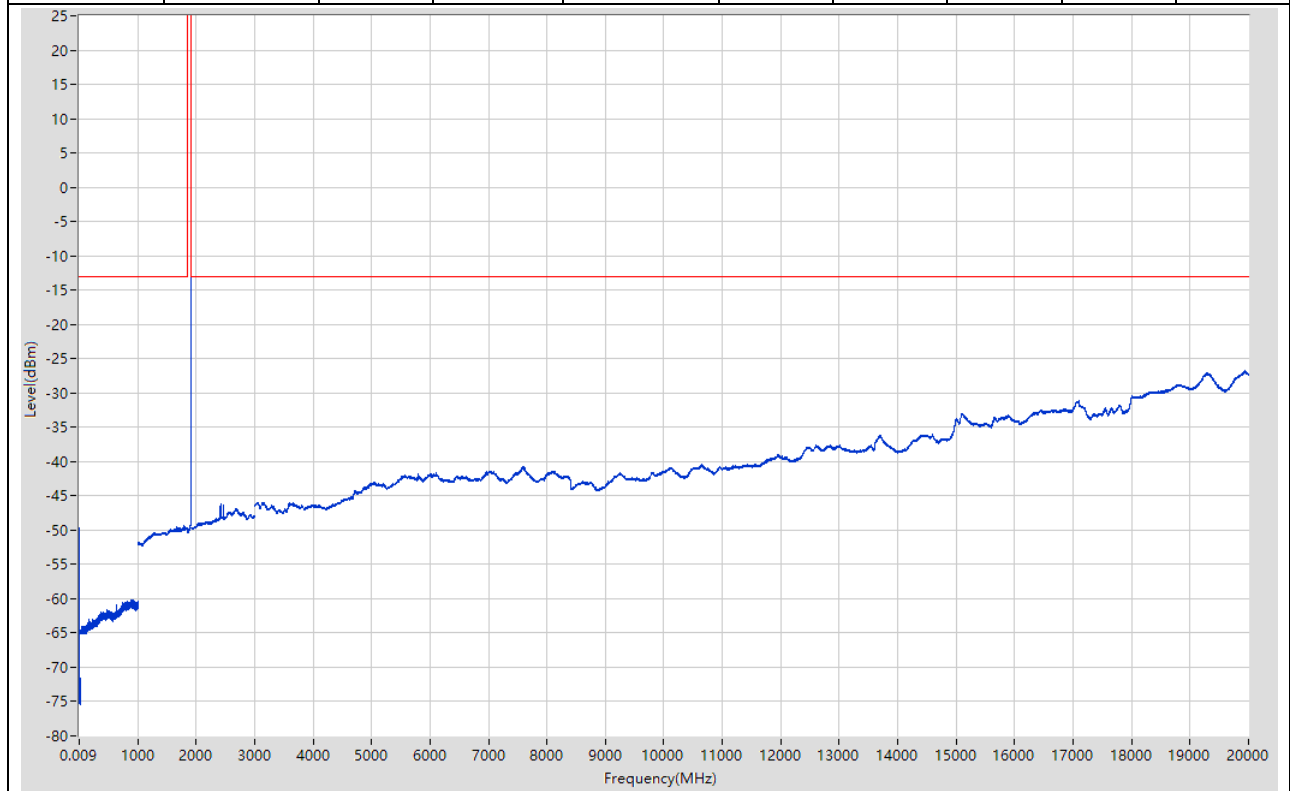
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-50.35	-13	37.35	Pass	401
0.15	30	0.01	RMS	0.16	-55.84	-13	42.84	Pass	5971
30	1000	0.1	RMS	900.3	-60.25	-13	47.25	Pass	19401
1000	1840	1	RMS	1787	-49.38	-13	36.38	Pass	1681
1840	1920	1	RMS	1909.8	18.05	60	41.95	Pass	401
1920	3000	1	RMS	2673	-46.92	-13	33.92	Pass	2161
3000	20000	1	RMS	19936	-26.8	-13	13.8	Pass	34001



6. NB-IoT_Band2_BPSK_15kHz_1@0_High

6.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

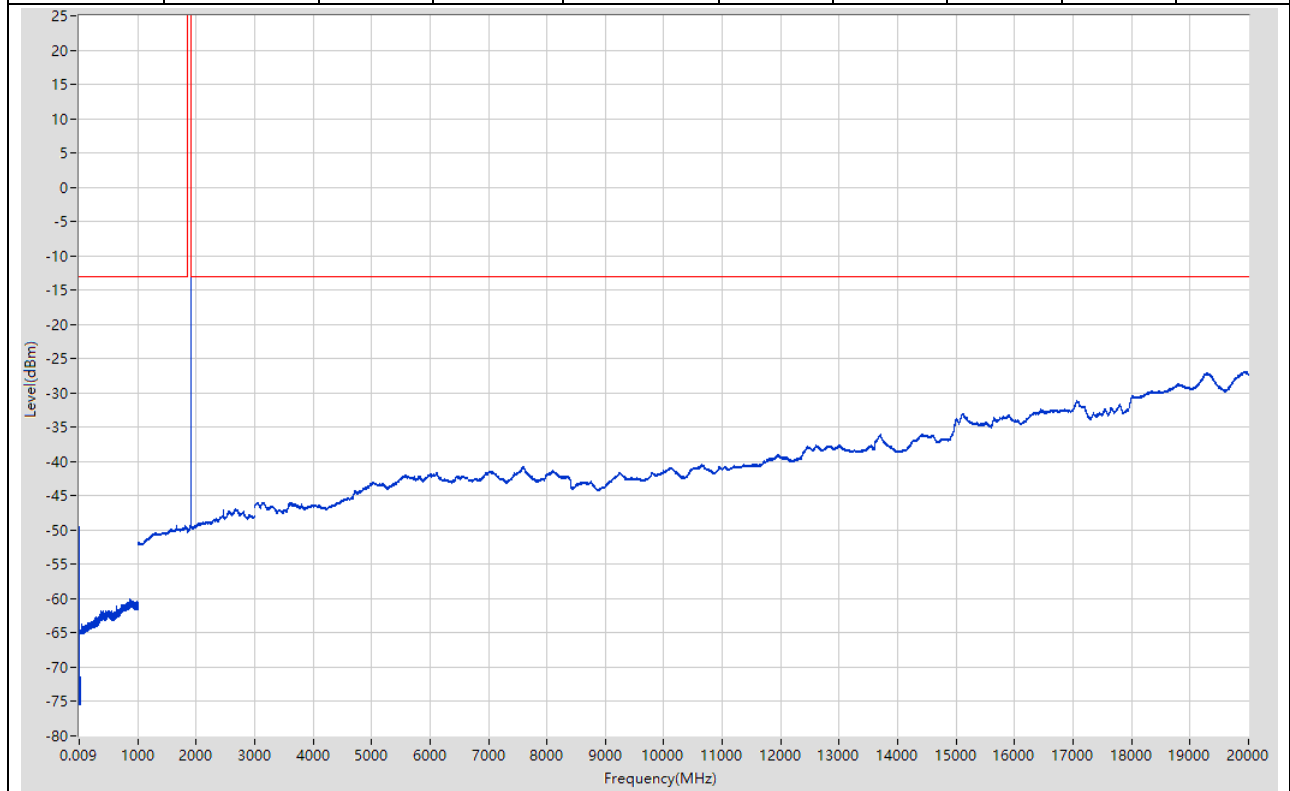
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-49.68	-13	36.68	Pass	401
0.15	30	0.01	RMS	0.15	-55.27	-13	42.27	Pass	5971
30	1000	0.1	RMS	905	-60.19	-13	47.19	Pass	19401
1000	1840	1	RMS	1787	-49.39	-13	36.39	Pass	1681
1840	1920	1	RMS	1909.8	18.5	60	41.5	Pass	401
1920	3000	1	RMS	2426	-46.17	-13	33.17	Pass	2161
3000	20000	1	RMS	19948	-26.74	-13	13.74	Pass	34001



7. NB-IoT_Band2_BPSK_3.75kHz_1@0_High

7.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

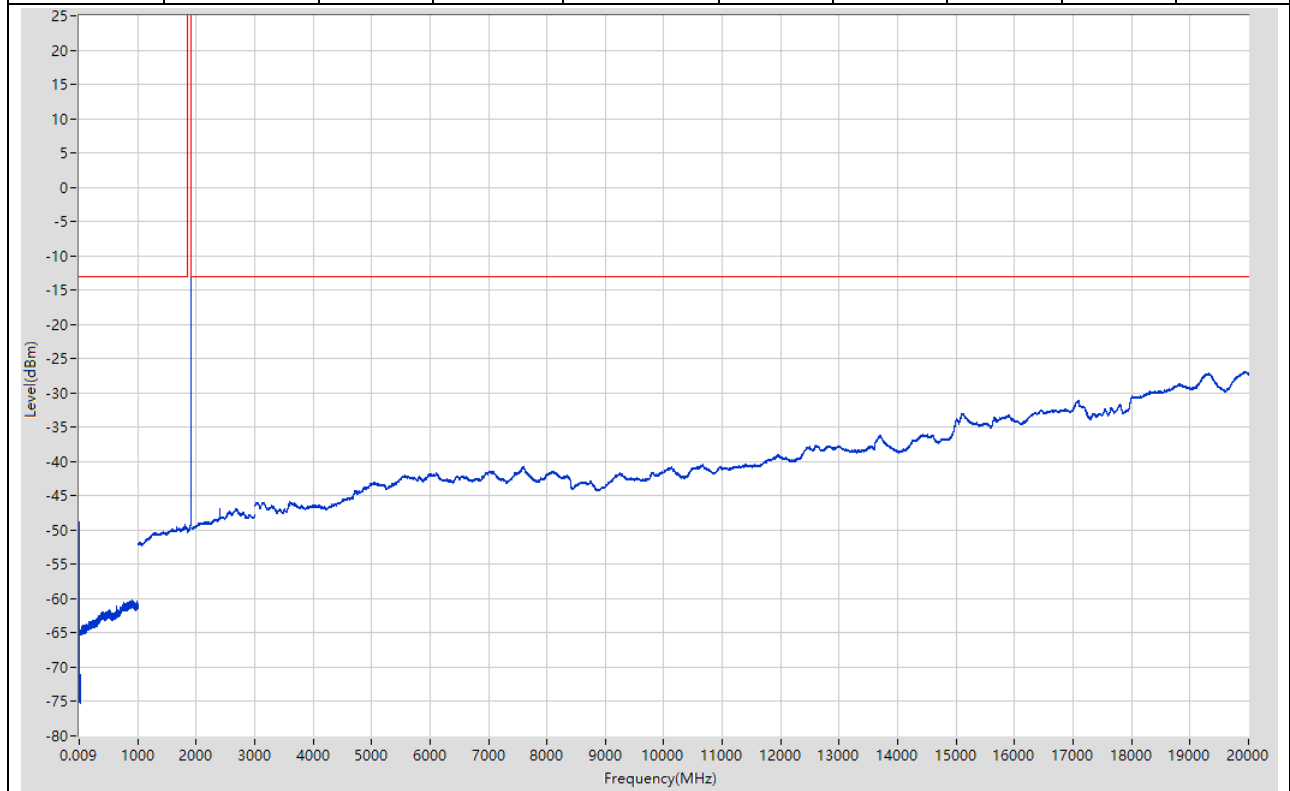
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-49.51	-13	36.51	Pass	401
0.15	30	0.01	RMS	0.15	-55.56	-13	42.56	Pass	5971
30	1000	0.1	RMS	859.2	-60	-13	47	Pass	19401
1000	1840	1	RMS	1807	-49.39	-13	36.39	Pass	1681
1840	1920	1	RMS	1909.8	18.68	60	41.32	Pass	401
1920	3000	1	RMS	2682	-46.95	-13	33.95	Pass	2161
3000	20000	1	RMS	19940	-26.84	-13	13.84	Pass	34001



8. NB-IoT_Band2_QPSK_3.75kHz_1@0_High

8.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

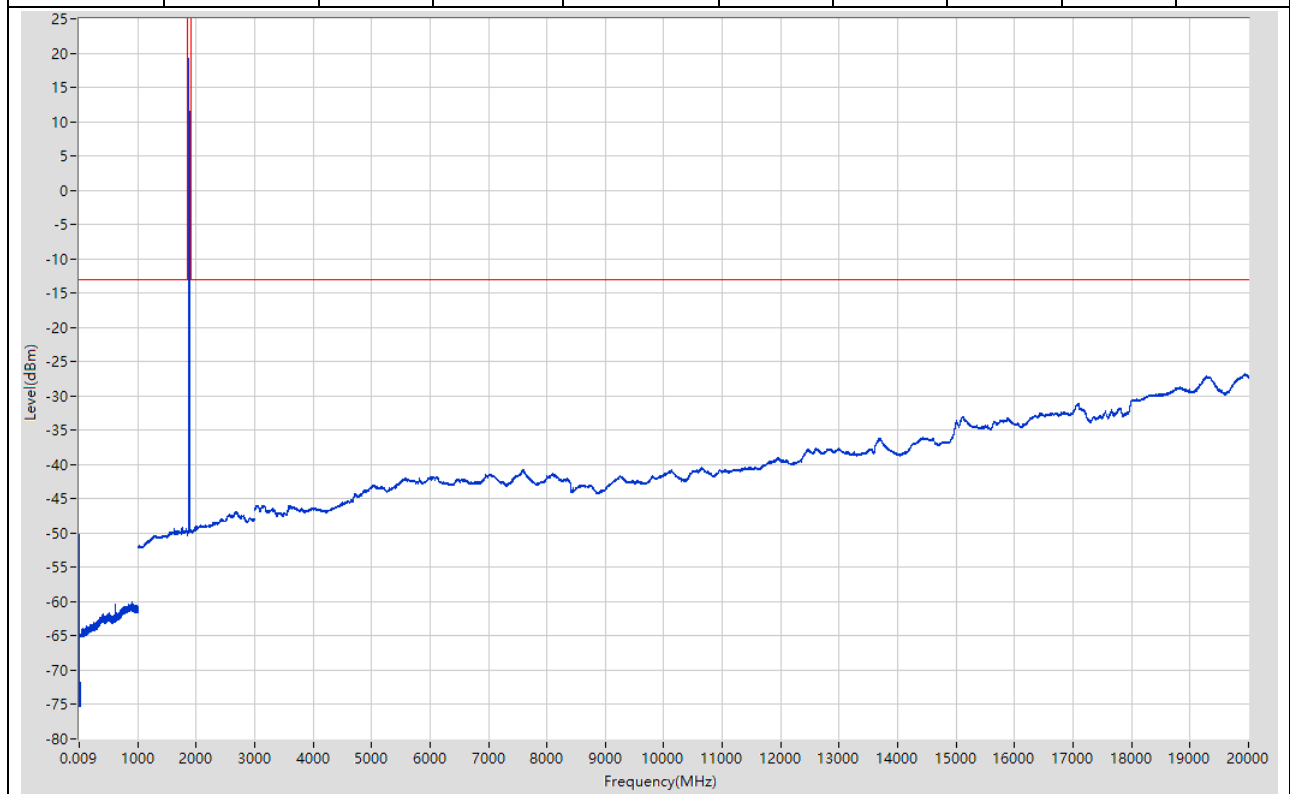
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-48.78	-13	35.78	Pass	401
0.15	30	0.01	RMS	0.15	-55.9	-13	42.9	Pass	5971
30	1000	0.1	RMS	900.5	-60.26	-13	47.26	Pass	19401
1000	1840	1	RMS	1808	-49.22	-13	36.22	Pass	1681
1840	1920	1	RMS	1909.8	18.49	60	41.51	Pass	401
1920	3000	1	RMS	2409	-46.78	-13	33.78	Pass	2161
3000	20000	1	RMS	19944	-26.81	-13	13.81	Pass	34001



9. NB-IoT_Band2_BPSK_3.75kHz_1@0_Mid

9.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

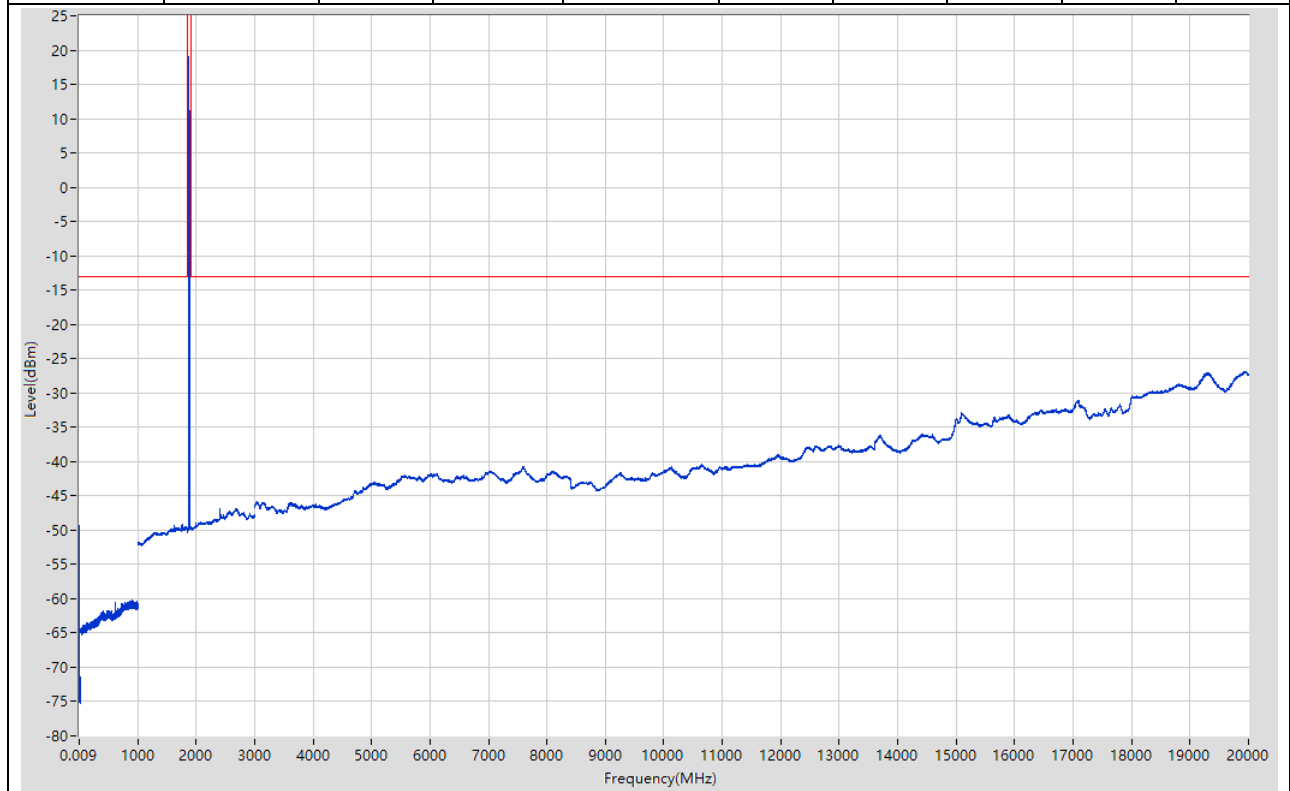
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.012	-50.16	-13	37.16	Pass	401
0.15	30	0.01	RMS	0.15	-55	-13	42	Pass	5971
30	1000	0.1	RMS	905.1	-59.95	-13	46.95	Pass	19401
1000	1840	1	RMS	1777	-49.19	-13	36.19	Pass	1681
1840	1920	1	RMS	1880	19.23	60	40.77	Pass	401
1920	3000	1	RMS	2676	-46.87	-13	33.87	Pass	2161
3000	20000	1	RMS	19944	-26.77	-13	13.77	Pass	34001



10. NB-IoT_Band2_QPSK_3.75kHz_1@0_Mid

10.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

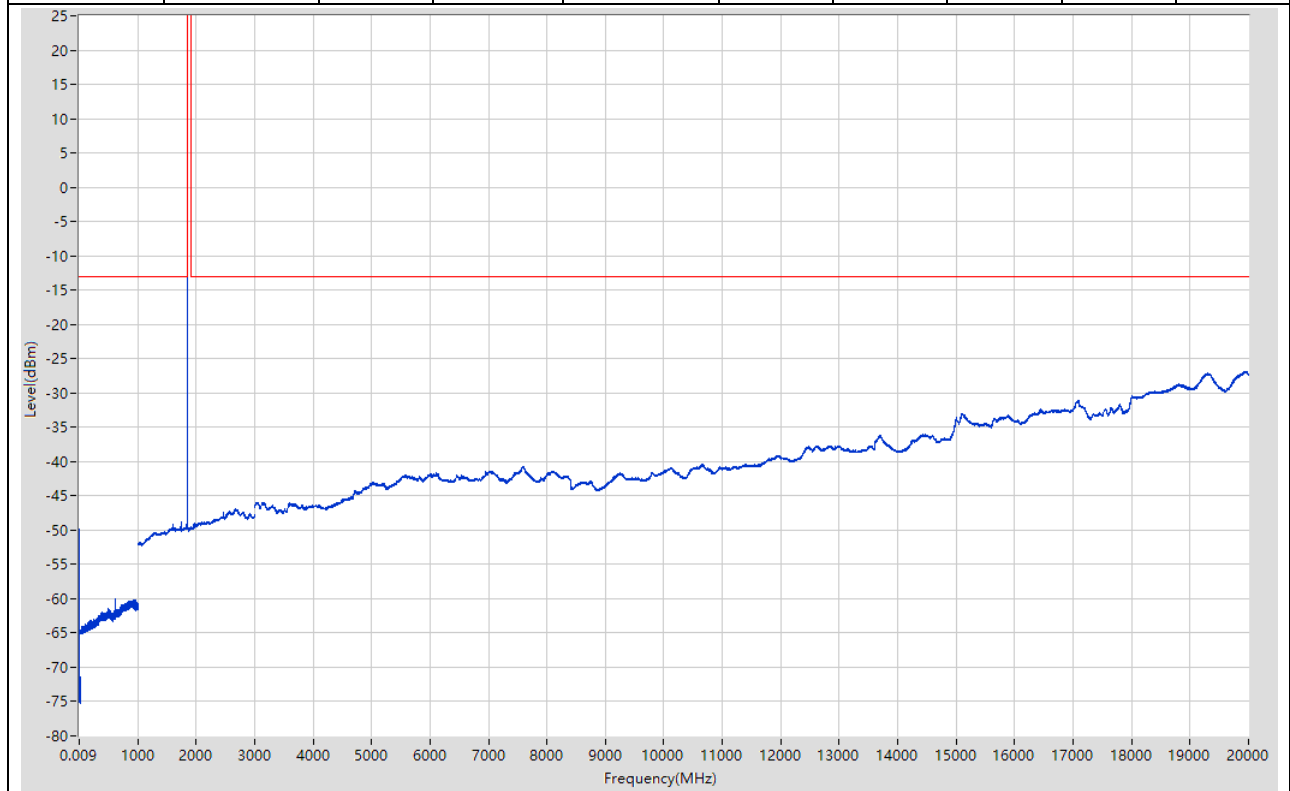
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.012	-49.31	-13	36.31	Pass	401
0.15	30	0.01	RMS	0.15	-55.53	-13	42.53	Pass	5971
30	1000	0.1	RMS	904.1	-60.21	-13	47.21	Pass	19401
1000	1840	1	RMS	1777	-49.19	-13	36.19	Pass	1681
1840	1920	1	RMS	1879.8	18.97	60	41.03	Pass	401
1920	3000	1	RMS	2675	-46.84	-13	33.84	Pass	2161
3000	20000	1	RMS	19935	-26.81	-13	13.81	Pass	34001



11. NB-IoT_Band2_BPSK_3.75kHz_1@0_Low

11.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

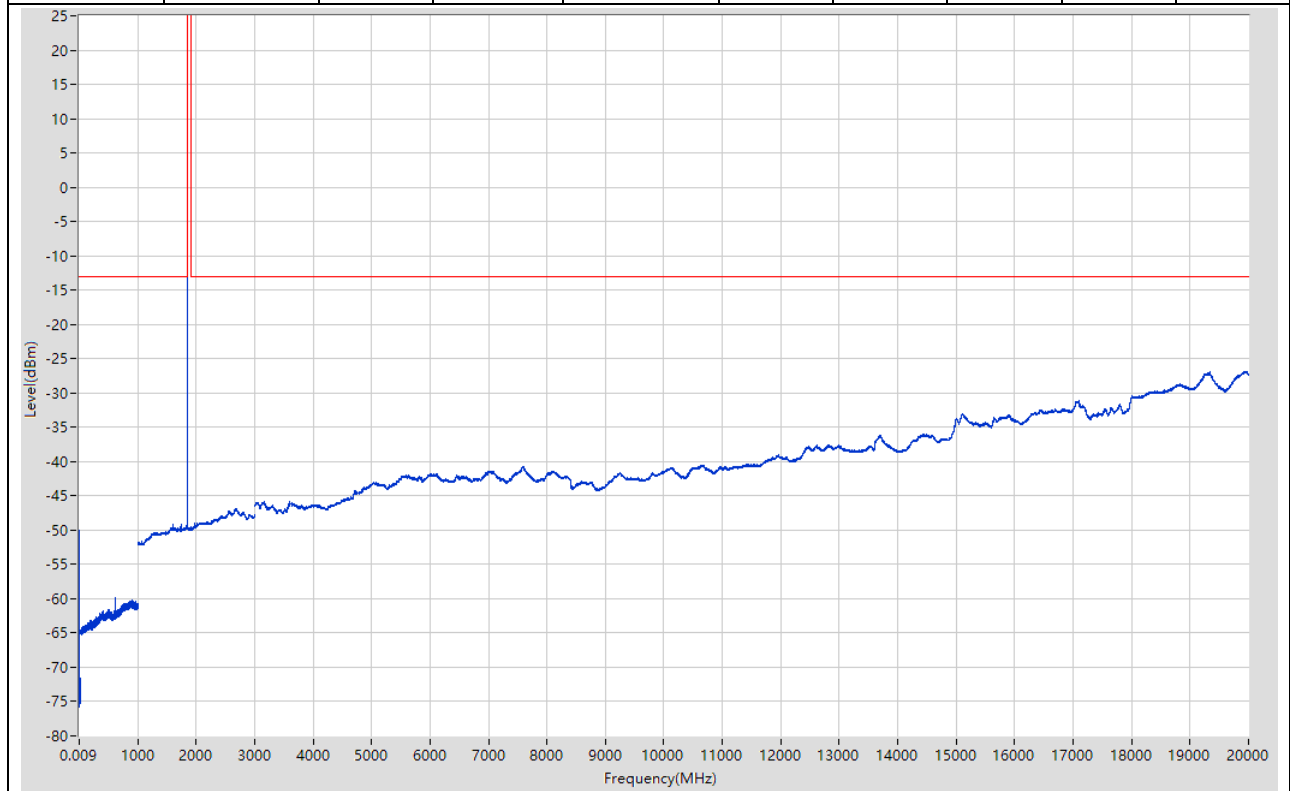
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-49.89	-13	36.89	Pass	401
0.15	30	0.01	RMS	0.15	-54.71	-13	41.71	Pass	5971
30	1000	0.1	RMS	616.4	-60	-13	47	Pass	19401
1000	1840	1	RMS	1748	-48.76	-13	35.76	Pass	1681
1840	1920	1	RMS	1850	19.35	60	40.65	Pass	401
1920	3000	1	RMS	2676	-46.92	-13	33.92	Pass	2161
3000	20000	1	RMS	19921	-26.83	-13	13.83	Pass	34001



12. NB-IoT_Band2_QPSK_3.75kHz_1@0_Low

12.1. NB-IoT Spurious Emission at Antenna Terminals_Part22-24-27(NTNV)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Margin (dB)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.013	-50.05	-13	37.05	Pass	401
0.15	30	0.01	RMS	0.16	-55.83	-13	42.83	Pass	5971
30	1000	0.1	RMS	616.4	-59.9	-13	46.9	Pass	19401
1000	1840	1	RMS	1748	-49.09	-13	36.09	Pass	1681
1840	1920	1	RMS	1850	19.41	60	40.59	Pass	401
1920	3000	1	RMS	2676	-46.86	-13	33.86	Pass	2161
3000	20000	1	RMS	19935	-26.82	-13	13.82	Pass	34001



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