

LTE CAT-M Band 25 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3820.5	Vertical	-51.16	-13	-38.16
3829	Horizontal	-50.38	-13	-37.38
5732.9	Horizontal	-51.19	-13	-38.19
5736.6	Vertical	-52.82	-13	-39.82

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3812	Vertical	-50.97	-13	-37.97
3812	Horizontal	-42.41	-13	-29.41
5726.1	Vertical	-52.79	-13	-39.79
5726.4	Horizontal	-53.09	-13	-40.09

LTE CAT-M Band 25 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3801.8	Vertical	-52.77	-13	-39.77
3801.8	Horizontal	-47.4	-13	-34.4
5721	Vertical	-52.73	-13	-39.73
5728.1	Horizontal	-52.76	-13	-39.76

LTE CAT-M Band 25 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3793.3	Vertical	-47.97	-13	-34.97
3793.3	Horizontal	-48.1	-13	-35.1
5709.1	Vertical	-51.32	-13	-38.32
5709.4	Horizontal	-52.96	-13	-39.96

LTE CAT-M Band 26 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1629.2	Vertical	-56.26	-13	-43.26
1629.2	Horizontal	-52.79	-13	-39.79
2443.4	Vertical	-55.02	-13	-42.02
2443.7	Horizontal	-42.55	-13	-29.55

LTE CAT-M Band 26 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1629.2	Vertical	-53.63	-13	-40.63
1629.2	Horizontal	-53.54	-13	-40.54
2443.4	Vertical	-52.78	-13	-39.78
2443.7	Horizontal	-49.36	-13	-36.36

LTE CAT-M Band 26 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1627.5	Vertical	-55.02	-13	-42.02
1629.2	Horizontal	-50.02	-13	-37.02
2443.4	Vertical	-54.4	-13	-41.4
2443.7	Horizontal	-46.41	-13	-33.41

LTE CAT-M Band 26 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1629.2	Vertical	-53.7	-13	-40.7
1630.9	Horizontal	-52.47	-13	-39.47
2443.4	Vertical	-50.8	-13	-37.8
2443.7	Horizontal	-47.64	-13	-34.64

LTE CAT-M Band 26 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1663.2	Vertical	-53.01	-13	-40.01
1663.2	Horizontal	-52.59	-13	-39.59
2493.975	Vertical	-49.85	-13	-36.85
2490.025	Horizontal	-45.65	-13	-32.65

LTE CAT-M Band 26 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1663.2	Vertical	-56.4	-13	-43.4
1663.2	Horizontal	-47.67	-13	-34.67
2494.4	Vertical	-46.41	-13	-33.41
2494.7	Horizontal	-43.03	-13	-30.03

LTE CAT-M Band 26 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1661.5	Vertical	-52.26	-13	-39.26
1661.5	Horizontal	-48.05	-13	-35.05
2492.7	Vertical	-46.22	-13	-33.22
2493	Horizontal	-43.31	-13	-30.31

LTE CAT-M Band 26 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1658.1	Vertical	-54.96	-13	-41.96
1659.8	Horizontal	-48.63	-13	-35.63
2487.6	Vertical	-44.42	-13	-31.42
2489.6	Horizontal	-42.39	-13	-29.39

LTE CAT-M Band 26 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1654.7	Vertical	-53.5	-13	-40.5
1654.7	Horizontal	-47.58	-13	-34.58
2482.5	Vertical	-48.6	-13	-35.6
2482.8	Horizontal	-43.3	-13	-30.3

LTE CAT-M Band 26 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1649.6	Vertical	-52.08	-13	-39.08
1649.6	Horizontal	-50.44	-13	-37.44
2475.7	Vertical	-47.44	-13	-34.44
2476	Horizontal	-43.59	-13	-30.59

LTE CAT-M Band 26 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1693.8	Vertical	-57.61	-13	-44.61
1695.5	Horizontal	-55.13	-13	-42.13
2543.7	Vertical	-53.25	-13	-40.25
2545.7	Horizontal	-54.59	-13	-41.59

LTE CAT-M Band 26 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1693.8	Vertical	-52.78	-13	-39.78
1695.5	Horizontal	-57.13	-13	-44.13
2540.3	Vertical	-53.14	-13	-40.14
2540.6	Horizontal	-51.19	-13	-38.19

LTE CAT-M Band 26 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1688.7	Vertical	-55.07	-13	-42.07
1688.7	Horizontal	-51.1	-13	-38.1
2533.5	Vertical	-50.94	-13	-37.94
2533.8	Horizontal	-48.2	-13	-35.2

LTE CAT-M Band 26 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1678.5	Vertical	-55.67	-13	-42.67
1680.2	Horizontal	-48.26	-13	-35.26
2519.9	Vertical	-48.8	-13	-35.8
2520.2	Horizontal	-46.68	-13	-33.68

LTE CAT-M Band 26 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1670	Vertical	-54.48	-13	-41.48
1670	Horizontal	-47.29	-13	-34.29
2506.3	Vertical	-49.68	-13	-36.68
2506.6	Horizontal	-46.3	-13	-33.3

LTE CAT-M Band 66 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3421	Vertical	-36.8	-13	-23.8
3421	Horizontal	-38.85	-13	-25.85
5132.8	Vertical	-53.1	-13	-40.1
5133.1	Horizontal	-53.29	-13	-40.29

LTE CAT-M Band 66 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3421	Vertical	-45.47	-13	-32.47
3421	Horizontal	-45.79	-13	-32.79
5136.2	Horizontal	-52.24	-13	-39.24
5138.2	Vertical	-53.02	-13	-40.02

LTE CAT-M Band 66 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3421	Vertical	-42.11	-13	-29.11
3421	Horizontal	-37.68	-13	-24.68
5136.2	Horizontal	-51.73	-13	-38.73
5138.2	Vertical	-52.66	-13	-39.66

LTE CAT-M Band 66 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3422.7	Vertical	-36.78	-13	-23.78
3422.7	Horizontal	-39.53	-13	-26.53
5141.3	Horizontal	-51.97	-13	-38.97
5145	Vertical	-53.33	-13	-40.33

LTE CAT-M Band 66 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3422.7	Vertical	-37.25	-13	-24.25
3422.7	Horizontal	-36.95	-13	-23.95
5146.4	Vertical	-51.64	-13	-38.64
5148.4	Horizontal	-52.39	-13	-39.39

LTE CAT-M Band 66 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3422.7	Vertical	-35.18	-13	-22.18
3422.7	Horizontal	-37.94	-13	-24.94
5151.5	Horizontal	-52.35	-13	-39.35
5158.6	Vertical	-52.51	-13	-39.51

LTE CAT-M Band 66 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3509.4	Vertical	-45.46	-13	-32.46
3509.4	Horizontal	-48.28	-13	-35.28
5263.7	Vertical	-54.45	-13	-41.45
5264	Horizontal	-54.5	-13	-41.5

LTE CAT-M Band 66 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3509.4	Vertical	-49.11	-13	-36.11
3509.4	Horizontal	-38.47	-13	-25.47
5263.7	Vertical	-53.66	-13	-40.66
5264	Horizontal	-53.79	-13	-40.79

LTE CAT-M Band 66 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3506	Vertical	-44.57	-13	-31.57
3506	Horizontal	-40.46	-13	-27.46
5262	Vertical	-52.72	-13	-39.72
5267.4	Horizontal	-53.84	-13	-40.84

LTE CAT-M Band 66 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3500.9	Vertical	-42.58	-13	-29.58
3502.6	Horizontal	-40.95	-13	-27.95
5260.3	Vertical	-53.61	-13	-40.61
5262.3	Horizontal	-53.96	-13	-40.96

LTE CAT-M Band 66 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3497.5	Vertical	-41.86	-13	-28.86
3497.5	Horizontal	-38.05	-13	-25.05
5263.7	Vertical	-52.24	-13	-39.24
5269.1	Horizontal	-53.59	-13	-40.59

LTE CAT-M Band 66 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3494.1	Vertical	-46.56	-13	-33.56
3494.1	Horizontal	-41.67	-13	-28.67
5256.9	Horizontal	-53.37	-13	-40.37
5264	Vertical	-53.95	-13	-40.95

LTE CAT-M Band 66 Bandwidth 1.4 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3558.7	Vertical	-45.76	-13	-32.76
3558.7	Horizontal	-46.22	-13	-33.22
5338.5	Vertical	-52.85	-13	-39.85
5338.8	Horizontal	-52.54	-13	-39.54

LTE CAT-M Band 66 Bandwidth 3 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3555.3	Vertical	-48.15	-13	-35.15
3555.3	Horizontal	-43.81	-13	-30.81
5335.1	Vertical	-51.81	-13	-38.81
5338.8	Horizontal	-52.78	-13	-39.78

LTE CAT-M Band 66 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3550.2	Vertical	-47.75	-13	-34.75
3551.9	Horizontal	-43.86	-13	-30.86
5328.3	Vertical	-51.35	-13	-38.35
5330.3	Horizontal	-52.21	-13	-39.21

LTE CAT-M Band 66 Bandwidth 10 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3541.7	Vertical	-42.76	-13	-29.76
3558.7	Horizontal	-49.33	-13	-36.33
5319.8	Vertical	-51.47	-13	-38.47
5321.8	Horizontal	-52.18	-13	-39.18

LTE CAT-M Band 66 Bandwidth 15 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3531.5	Vertical	-45.72	-13	-32.72
3533.2	Horizontal	-49.09	-13	-36.09
5309.6	Vertical	-52.61	-13	-39.61
5321.8	Horizontal	-51.45	-13	-38.45

LTE CAT-M Band 66 Bandwidth 20 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3523	Vertical	-49.28	-13	-36.28
3523	Horizontal	-44.93	-13	-31.93
5302.8	Vertical	-51.83	-13	-38.83
5309.9	Horizontal	-51.71	-13	-38.71

LTE NB-IOT Band 2 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3703.2	Vertical	-55.09	-13	-42.09
3704.9	Horizontal	-52.98	-13	-39.98
5556.1	Vertical	-53.99	-13	-40.99
5561.5	Horizontal	-53.69	-13	-40.69

LTE NB-IOT Band 2 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3761	Vertical	-54.31	-13	-41.31
3762.7	Horizontal	-53.47	-13	-40.47
5639.4	Vertical	-53.47	-13	-40.47
5641.4	Horizontal	-54.07	-13	-41.07

LTE NB-IOT Band 2 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3813.7	Vertical	-54.39	-13	-41.39
3815.4	Horizontal	-54.68	-13	-41.68
5721	Vertical	-53.04	-13	-40.04
5723	Horizontal	-55.28	-13	-42.28

LTE NB-IOT Band 4 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3424.4	Vertical	-41.51	-13	-28.51
3424.4	Horizontal	-40.39	-13	-27.39
5137.9	Vertical	-53.14	-13	-40.14
5139.9	Horizontal	-53.44	-13	-40.44

LTE NB-IOT Band 4 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3465.2	Vertical	-43.18	-13	-30.18
3465.2	Horizontal	-40.83	-13	-27.83
5197.4	Vertical	-52.63	-13	-39.63
5199.4	Horizontal	-53.7	-13	-40.7

LTE NB-IOT Band 4 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3504.3	Vertical	-44.28	-13	-31.28
3504.3	Horizontal	-38.09	-13	-25.09
5256.9	Vertical	-54.68	-13	-41.68
5257.2	Horizontal	-54.28	-13	-41.28

LTE NB-IOT Band 5 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1653	Vertical	-52.54	-13	-39.54
1653	Horizontal	-50.74	-13	-37.74
2479.1	Vertical	-47.16	-13	-34.16
2479.4	Horizontal	-45.55	-13	-32.55

LTE NB-IOT Band 5 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1671.7	Vertical	-53.44	-13	-40.44
1671.7	Horizontal	-51.43	-13	-38.43
2508	Vertical	-50.7	-13	-37.7
2508.3	Horizontal	-48.93	-13	-35.93

LTE NB-IOT Band 5 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1692.1	Vertical	-53.18	-13	-40.18
1692.1	Horizontal	-51.51	-13	-38.51
2538.6	Vertical	-52.51	-13	-39.51
2538.9	Horizontal	-52.56	-13	-39.56

LTE NB-IOT Band 12 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1401.4	Horizontal	-47.58	-13	-34.58
1403.1	Vertical	-51.61	-13	-38.61
2103.4	Vertical	-43.06	-13	-30.06
2103.7	Horizontal	-37.48	-13	-24.48

LTE NB-IOT Band 12 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1415	Vertical	-50.9	-13	-37.9
1415	Horizontal	-50.58	-13	-37.58
2122.1	Vertical	-50.13	-13	-37.13
2122.4	Horizontal	-47.46	-13	-34.46

LTE NB-IOT Band 12 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1426.9	Vertical	-49.17	-13	-36.17
1426.9	Horizontal	-43.42	-13	-30.42
2139.1	Vertical	-46.74	-13	-33.74
2141.1	Horizontal	-42.47	-13	-29.47

LTE NB-IOT Band 13 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1557.8	Vertical	-55.06	-13	-42.06
1561.2	Horizontal	-57.89	-13	-44.89
2336.3	Vertical	-54.06	-13	-41.06
2338.3	Horizontal	-55.46	-13	-42.46

LTE NB-IOT Band 13 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1562.9	Vertical	-55.06	-13	-42.06
1562.9	Horizontal	-57.89	-13	-44.89
2346.5	Vertical	-54.06	-13	-41.06
2348.5	Horizontal	-55.46	-13	-42.46

LTE NB-IOT Band 13 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1568	Vertical	-58.92	-13	-45.92
1568	Horizontal	-56.62	-13	-43.62
2353.3	Vertical	-54.79	-13	-41.79
2353.6	Horizontal	-54.96	-13	-41.96

LTE NB-IOT Band 17 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1411.6	Vertical	-51.99	-13	-38.99
1411.6	Horizontal	-47.61	-13	-34.61
2118.7	Vertical	-49.05	-13	-36.05
2119	Horizontal	-43.09	-13	-30.09

LTE NB-IOT Band 17 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1418.4	Vertical	-46.57	-13	-33.57
1420.1	Horizontal	-53.48	-13	-40.48
2128.9	Vertical	-50.77	-13	-37.77
2130.9	Horizontal	-46.26	-13	-33.26

LTE NB-IOT Band 17 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1426.9	Vertical	-51.25	-13	-38.25
1426.9	Horizontal	-48.46	-13	-35.46
2139.1	Vertical	-49.09	-13	-36.09
2141.1	Horizontal	-47.48	-13	-34.48

LTE NB-IOT Band 25 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3704.9	Vertical	-54.43	-13	-41.43
3704.9	Horizontal	-53.38	-13	-40.38
5556.1	Vertical	-52.23	-13	-39.23
5558.1	Horizontal	-54.23	-13	-41.23

LTE NB-IOT Band 25 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3764.4	Vertical	-53.92	-13	-40.92
3766.1	Horizontal	-54.31	-13	-41.31
5646.2	Vertical	-53.98	-13	-40.98
5649.9	Horizontal	-53.58	-13	-40.58

LTE NB-IOT Band 25 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3823.9	Vertical	-54.35	-13	-41.35
3825.6	Horizontal	-55.52	-13	-42.52
5738	Vertical	-52.32	-13	-39.32
5740	Horizontal	-53.33	-13	-40.33

LTE NB-IOT Band 26 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1630.9	Vertical	-57.99	-13	-44.99
1632.6	Horizontal	-57.59	-13	-44.59
2448.5	Vertical	-55	-13	-42
2450.5	Horizontal	-54.26	-13	-41.26

LTE NB-IOT Band 26 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1664.9	Vertical	-58.14	-13	-45.14
1664.9	Horizontal	-57.69	-13	-44.69
2492.7	Vertical	-53.75	-13	-40.75
2493	Horizontal	-52.96	-13	-39.96

LTE NB-IOT Band 26 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
1695.5	Vertical	-58.2	-13	-45.2
1695.5	Horizontal	-57.41	-13	-44.41
2540.3	Vertical	-53.81	-13	-40.81
2542.3	Horizontal	-53.84	-13	-40.84

LTE NB-IOT Band 66 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Low Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3424.4	Vertical	-41.74	-13	-28.74
3424.4	Horizontal	-38.84	-13	-25.84
5136.2	Vertical	-53.08	-13	-40.08
5136.5	Horizontal	-52.76	-13	-39.76

LTE NB-IOT Band 66 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	Mid Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3509.4	Vertical	-44.73	-13	-31.73
3509.4	Horizontal	-42.01	-13	-29.01
5265.4	Vertical	-54.98	-13	-41.98
5267.4	Horizontal	-54.29	-13	-41.29

LTE NB-IOT Band 66 Bandwidth 5 MHz

Frequency Range	1GHz ~ 26.5GHz	Operating Channel	High Channel
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SPURIOUS EMISSION LEVEL				
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
3555.3	Vertical	-47.8	-13	-34.8
3555.3	Horizontal	-49.32	-13	-36.32
5333.4	Vertical	-52.03	-13	-39.03
5335.4	Horizontal	-53.34	-13	-40.34

Test Setup Photo

(Please refer to the attached file (Test Setup Photo))

IV. Test Equipment List

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2003	EMI Test Receiver	Keysight	N9030B	11/06/2023	11/06/2024
1S2399	Turntable Controller	SUNOL SCIENCE	SC99V	Not Required	Not Required
1S2486	5 Meter Chamber Control Room	Panashield	5 Meter Control Room	Not Required	Not Required
1S2435	Horn Antenna	ETS-LINDGREN	3117	04/06/2023	04/06/2025
1S3826	Horn Antenna	ETS-LINDGREN	3117	04/06/2023	04/06/2025
1S4802	Preamplifier	EMC Instrument	EMC118A45SE	Note 1	Note 1
1S2668	Preamplifier	Sonoma Instrument	310N	Note 1	Note 1
1S2756	EXG Vector Signal Generator	Keysight	N5172B	August 27, 2022	August 27, 2024
1S2600	Antenna	TESEQ GmbH	D-12623	April 19, 2023	April 19, 2025
Note 1: Verified by calibrated instrumentation at the time of testing					

Table 1. Radiated Emission and Bandage Measurement, Test Equipment List

END OF REPORT