

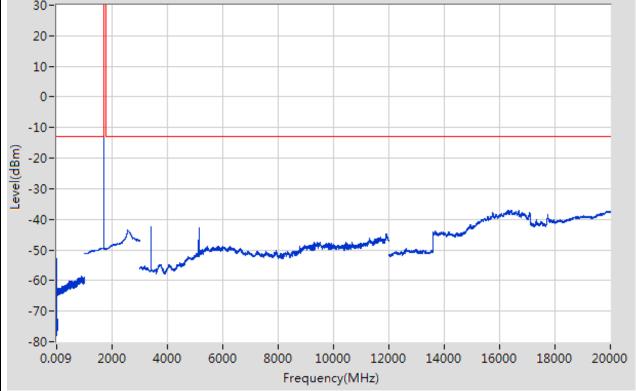
Annex C. LTE Transmitter Spurious Emissions



1. LTE_Band4

1.1. LTE Transmitter Spurious Emissions(NTNV)(Subtest:1, Channel:19957, Bandwidth:1.4, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.32	-13	Pass	601
0.15	30	0.01	RMS	0.16	-52.79	-13	Pass	2985
30	1000	0.1	RMS	896.289	-58.7	-13	Pass	9700
1000	1700	1	RMS	1700	-49.26	-13	Pass	700
1700	1765	1	RMS	1710.292	22.71	60	Pass	601
1765	3000	1	RMS	2564.647	-43.61	-13	Pass	1235
3000	12000	1	RMS	3420.047	-42.37	-13	Pass	9000
12000	20000	1	RMS	16314.539	-37.16	-13	Pass	8000
30 - 20 - 10 -								





-40

-50-

-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.2. LTE Transmitter Spurious Emissions(NTNV)(Subtest:2, Channel:19957, Bandwidth:1.4, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-52.44	-13	Pass	601
0.15	30	0.01	RMS	0.16	-53.55	-13	Pass	2985
30	1000	0.1	RMS	948.295	-58.66	-13	Pass	9700
1000	1700	1	RMS	1700	-49.29	-13	Pass	700
1700	1765	1	RMS	1711.158	22.75	60	Pass	601
1765	3000	1	RMS	2577.658	-43.59	-13	Pass	1235
3000	12000	1	RMS	3422.047	-41.8	-13	Pass	9000
12000	20000	1	RMS	16314.539	-37.09	-13	Pass	8000
30- 20- 10- 0- -10- (mg/g) -20-								



1.3. LTE Transmitter Spurious Emissions(NTNV)(Subtest:3, Channel:19957, Bandwidth:1.4, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.43	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.18	-13	Pass	2985
30	1000	0.1	RMS	897.789	-58.91	-13	Pass	9700
1000	1700	1	RMS	1700	-49.36	-13	Pass	700
1700	1765	1	RMS	1710.292	21.78	60	Pass	601
1765	3000	1	RMS	2574.656	-43.54	-13	Pass	1235
3000	12000	1	RMS	3420.047	-43.17	-13	Pass	9000
12000	20000	1	RMS	16411.551	-37.1	-13	Pass	8000
30- 20- 10- 0-								





-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

14000

16000

18000

20000

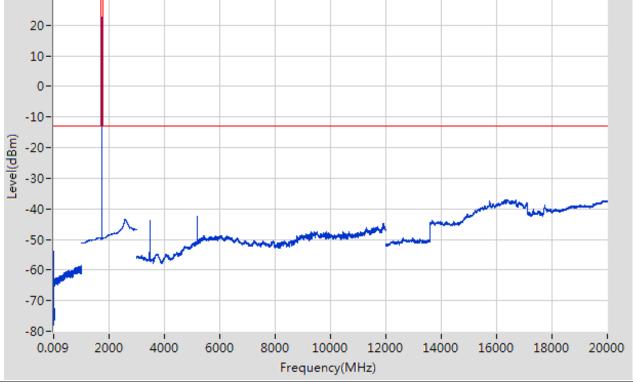
1.4. LTE Transmitter Spurious Emissions(NTNV)(Subtest:4, Channel:19957, Bandwidth:1.4, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

0.15 30 0.01 RMS 0.15 -52.45 -13 Pass 298 30 1000 0.1 RMS 888.989 -58.72 -13 Pass 970 1000 1700 1 RMS 1700 -49.38 -13 Pass 70 1700 1765 1 RMS 1711.158 21.8 60 Pass 60 1765 3000 1 RMS 2570.652 -43.59 -13 Pass 123 3000 12000 1 RMS 3422.047 -42.3 -13 Pass 900 12000 20000 1 RMS 16415.552 -37.13 -13 Pass 800	Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	0.009	0.15	0.001	RMS	0.01	-54.26	-13	Pass	601
1000	0.15	30	0.01	RMS	0.15	-52.45	-13	Pass	298
1700 1765 1 RMS 1711.158 21.8 60 Pass 60 1765 3000 1 RMS 2570.652 -43.59 -13 Pass 123 3000 12000 1 RMS 3422.047 -42.3 -13 Pass 900 12000 20000 1 RMS 16415.552 -37.13 -13 Pass 800	30	1000	0.1	RMS	888.989	-58.72	-13	Pass	970
1765 3000 1 RMS 2570.652 -43.59 -13 Pass 123 3000 12000 1 RMS 3422.047 -42.3 -13 Pass 900 12000 20000 1 RMS 16415.552 -37.13 -13 Pass 800	1000	1700	1	RMS	1700	-49.38	-13	Pass	700
3000 12000 1 RMS 3422.047 -42.3 -13 Pass 900 12000 20000 1 RMS 16415.552 -37.13 -13 Pass 800	1700	1765	1	RMS	1711.158	21.8	60	Pass	60′
12000 20000 1 RMS 16415.552 -37.13 -13 Pass 800	1765	3000	1	RMS	2570.652	-43.59	-13	Pass	1235
30- 20- 10- 0- -10- -20- -30-	3000	12000	1	RMS	3422.047	-42.3	-13	Pass	9000
20- 10- 0- -10- -20- -30-	12000	20000	1	RMS	16415.552	-37.13	-13	Pass	8000
-40-	20- 10- 0- -10- -20-						- Name - State	M. A.	



1.5. LTE Transmitter Spurious Emissions(NTNV)(Subtest:5, Channel:20175, Bandwidth:1.4, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.06	-13	Pass	601
0.15	30	0.01	RMS	0.15	-53.72	-13	Pass	2985
30	1000	0.1	RMS	993.899	-58.44	-13	Pass	9700
1000	1700	1	RMS	1676.967	-49.34	-13	Pass	700
1700	1765	1	RMS	1732.067	22.79	60	Pass	601
1765	3000	1	RMS	2593.671	-43.56	-13	Pass	1235
3000	12000	1	RMS	5196.244	-42.48	-13	Pass	9000
12000	20000	1	RMS	16314.539	-37.03	-13	Pass	8000
30- 20- 10- 0-								





1.6. LTE Transmitter Spurious Emissions(NTNV)(Subtest:6, Channel:20175, Bandwidth:1.4, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.76	-13	Pass	601
0.15	30	0.01	RMS	0.15	-53.04	-13	Pass	2985
30	1000	0.1	RMS	876.287	-58.79	-13	Pass	9700
1000	1700	1	RMS	1618.884	-49.28	-13	Pass	700
1700	1765	1	RMS	1732.933	22.78	60	Pass	601
1765	3000	1	RMS	2575.656	-43.54	-13	Pass	1235
3000	12000	1	RMS	3466.052	-43.99	-13	Pass	9000
12000 30-	20000	1	RMS	16317.54	-37.03	-13	Pass	8000
20- 10- 0- -10- (\(\text{Wgp}\)] -20- -30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000	8000	10000 12000	0 14000	16000	18000	20000

Frequency(MHz)



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.7. LTE Transmitter Spurious Emissions(NTNV)(Subtest:7, Channel:20175, Bandwidth:1.4, Modulation:16QAM, RB Number: 1, RB Position:LOW)

0.009 0.15 30 1000 1700 1765 3000 12000	0.15 30 1000 1700 1765 3000	0.001 0.01 0.1 1	RMS RMS RMS RMS	0.011 0.16 912.091 1680.973	-53.91 -53.05 -58.79	-13 -13 -13	Pass Pass	601 2985
30 1000 1700 1765 3000 12000	1000 1700 1765 3000	0.1	RMS	912.091				2985
1000 1700 1765 3000 12000	1700 1765 3000	1			-58.79	-13	_	
1700 1765 3000 12000	1765 3000		RMS	1680.973			Pass	9700
1765 3000 12000	3000	1		. 000.010	-49.33	-13	Pass	700
3000 12000			RMS	1732.067	21.81	60	Pass	601
12000		1	RMS	2568.651	-43.55	-13	Pass	1235
1	12000	1	RMS	5196.244	-43.45	-13	Pass	9000
30-	20000	1	RMS	16318.54	-36.99	-13	Pass	8000
20 - 10 - 0 - -10 - -20 - -30 - -40 -						A CONTRACTOR OF THE PARTY OF TH	Mun	



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

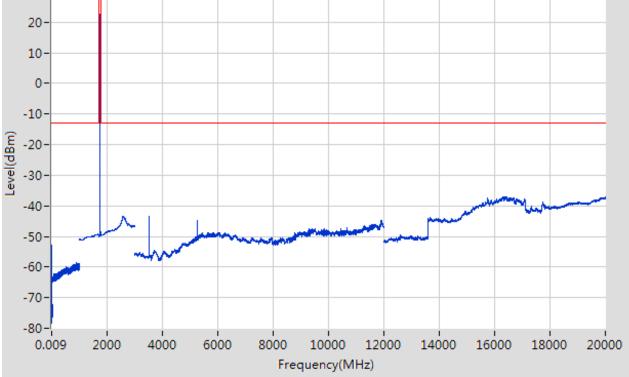
1.8. LTE Transmitter Spurious Emissions(NTNV)(Subtest:8, Channel:20175, Bandwidth:1.4, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-54.24	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.86	-13	Pass	2985
30	1000	0.1	RMS	902.99	-58.78	-13	Pass	9700
1000	1700	1	RMS	1670.959	-49.31	-13	Pass	700
1700	1765	1	RMS	1732.933	21.8	60	Pass	601
1765	3000	1	RMS	2583.663	-43.53	-13	Pass	1235
3000	12000	1	RMS	3466.052	-44.57	-13	Pass	9000
12000	20000	1	RMS	16319.54	-36.97	-13	Pass	8000
30- 20- 10- 0- -10- (Eg) -20-								



1.9. LTE Transmitter Spurious Emissions(NTNV)(Subtest:9, Channel:20393, Bandwidth:1.4, Modulation:QPSK, RB Number: 1, RB Position:LOW)

011	01							
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-54.12	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.77	-13	Pass	2985
30	1000	0.1	RMS	891.689	-58.68	-13	Pass	9700
1000	1700	1	RMS	1677.969	-49.3	-13	Pass	700
1700	1765	1	RMS	1753.842	22.78	60	Pass	601
1765	3000	1	RMS	2570.652	-43.49	-13	Pass	1235
3000	12000	1	RMS	3508.056	-43.59	-13	Pass	9000
12000	20000	1	RMS	16312.539	-37	-13	Pass	8000
30- 20- 10- 0-								





-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.10. LTE Transmitter Spurious Emissions(NTNV)(Subtest:10, Channel:20393, Bandwidth:1.4, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.23	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.45	-13	Pass	298
30	1000	0.1	RMS	992.599	-58.65	-13	Pass	970
1000	1700	1	RMS	1659.943	-49.3	-13	Pass	700
1700	1765	1	RMS	1754.708	22.73	60	Pass	601
1765	3000	1	RMS	2580.66	-43.48	-13	Pass	1235
3000	12000	1	RMS	3509.057	-44.47	-13	Pass	9000
12000	20000	1	RMS	16314.539	-37.03	-13	Pass	8000
30- 20- 10- 0- -10- (\text{\tin}\text{\tetx{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi\texi{\texi{\texi{\texi{\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi						And the state of t	Menten	



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-70-

-80-

0.009

2000

4000

1.11. LTE Transmitter Spurious Emissions(NTNV)(Subtest:11, Channel:20393, Bandwidth:1.4, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-53.81	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.15	-13	Pass	2985
30	1000	0.1	RMS	998.5	-58.48	-13	Pass	9700
1000	1700	1	RMS	1669.957	-49.31	-13	Pass	700
1700	1765	1	RMS	1753.842	21.8	60	Pass	601
1765	3000	1	RMS	2591.669	-43.53	-13	Pass	1235
3000	12000	1	RMS	3508.056	-44.44	-13	Pass	9000
12000	20000	1	RMS	16316.54	-36.99	-13	Pass	8000
20- 10- 0- -10- (Egg) -20- -30- -40-	~					And the second s	Manh	

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.12. LTE Transmitter Spurious Emissions(NTNV)(Subtest:12, Channel:20393, Bandwidth:1.4, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

0.15 30 0.01 RMS 0.15 -52.59 -13 Pass 2983 30 1000 0.1 RMS 923.092 -58.85 -13 Pass 9700 1000 1700 1 RMS 1677.969 -49.33 -13 Pass 700 1700 1765 1 RMS 1754.708 21.77 60 Pass 600 1765 3000 1 RMS 2574.656 -43.48 -13 Pass 1233 3000 12000 1 RMS 11909.99 -44.45 -13 Pass 9000 12000 20000 1 RMS 16317.54 -36.9 -13 Pass 8000	Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	0.009	0.15	0.001	RMS	0.01	-53.85	-13	Pass	601
1000 1700 1 RMS 1677.969 -49.33 -13 Pass 700 1700 1765 1 RMS 1754.708 21.77 60 Pass 60 1765 3000 1 RMS 2574.656 -43.48 -13 Pass 1233 3000 12000 1 RMS 11909.99 -44.45 -13 Pass 9000 12000 20000 1 RMS 16317.54 -36.9 -13 Pass 8000	0.15	30	0.01	RMS	0.15	-52.59	-13	Pass	2985
1700 1765 1 RMS 1754.708 21.77 60 Pass 60 1765 3000 1 RMS 2574.656 -43.48 -13 Pass 1233 3000 12000 1 RMS 11909.99 -44.45 -13 Pass 9000 12000 20000 1 RMS 16317.54 -36.9 -13 Pass 8000 30- 20- 10- 0- -10- -20- -30-	30	1000	0.1	RMS	923.092	-58.85	-13	Pass	9700
1765 3000 1 RMS 2574.656 -43.48 -13 Pass 1233 3000 12000 1 RMS 11909.99 -44.45 -13 Pass 9000 12000 20000 1 RMS 16317.54 -36.9 -13 Pass 8000 30- 20- 10- 010203030303030303	1000	1700	1	RMS	1677.969	-49.33	-13	Pass	700
3000 12000 1 RMS 11909.99 -44.45 -13 Pass 9000 12000 20000 1 RMS 16317.54 -36.9 -13 Pass 8000	1700	1765	1	RMS	1754.708	21.77	60	Pass	601
12000 20000 1 RMS 16317.54 -36.9 -13 Pass 8000	1765	3000	1	RMS	2574.656	-43.48	-13	Pass	1235
30- 20- 10- 0- -10- 20- 30- 30-	3000	12000	1	RMS	11909.99	-44.45	-13	Pass	9000
20- 10- 0- -10- 20- -30-	12000	20000	1	RMS	16317.54	-36.9	-13	Pass	8000
-40-	20- 10- 0- -10-						and to make the	Mahan	



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.13. LTE Transmitter Spurious Emissions(NTNV)(Subtest:13, Channel:19965, Bandwidth:3, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.2	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.79	-13	Pass	2985
30	1000	0.1	RMS	913.391	-58.64	-13	Pass	9700
1000	1700	1	RMS	1700	-49.17	-13	Pass	700
1700	1765	1	RMS	1710.292	22.74	60	Pass	601
1765	3000	1	RMS	2571.653	-43.48	-13	Pass	1235
3000	12000	1	RMS	3420.047	-41.92	-13	Pass	9000
12000	20000	1	RMS	16310.539	-37.03	-13	Pass	8000
30- 20- 10- 0- -10- (\(\text{QBD}\)) -30-								



-40

-50-

-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.14. LTE Transmitter Spurious Emissions(NTNV)(Subtest:14, Channel:19965, Bandwidth:3, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-53.07	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.83	-13	Pass	2985
30	1000	0.1	RMS	935.593	-58.7	-13	Pass	9700
1000	1700	1	RMS	1672.961	-49.29	-13	Pass	700
1700	1765	1	RMS	1712.783	22.8	60	Pass	601
1765	3000	1	RMS	2572.654	-43.51	-13	Pass	1235
3000	12000	1	RMS	5138.238	-42.76	-13	Pass	9000
12000	20000	1	RMS	16415.552	-37.1	-13	Pass	8000
30- 20- 10- 0- -10- (Eg) -20-								



1.15. LTE Transmitter Spurious Emissions(NTNV)(Subtest:15, Channel:19965, Bandwidth:3, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-54.45	-13	Pass	601
0.15	30	0.01	RMS	0.16	-53.33	-13	Pass	2985
30	1000	0.1	RMS	884.988	-58.78	-13	Pass	9700
1000	1700	1	RMS	1698.999	-45.6	-13	Pass	700
1700	1765	1	RMS	1710.183	21.93	60	Pass	601
1765	3000	1	RMS	2586.665	-43.5	-13	Pass	1235
3000	12000	1	RMS	3420.047	-42.53	-13	Pass	9000
12000	20000	1	RMS	16320.54	-37.07	-13	Pass	8000
20- 10- 0- -10- (\(\mathbb{W}\) 20- -30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000	8000	10000 12000	0 14000	16000	18000	20000

Frequency(MHz)



-70

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

14000

16000

18000

20000

1.16. LTE Transmitter Spurious Emissions(NTNV)(Subtest:16, Channel:19965, Bandwidth:3, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.61	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.96	-13	Pass	2985
30	1000	0.1	RMS	907.891	-58.51	-13	Pass	9700
1000	1700	1	RMS	1698.999	-49.29	-13	Pass	700
1700	1765	1	RMS	1712.783	21.95	60	Pass	601
1765	3000	1	RMS	2578.659	-43.56	-13	Pass	1235
3000	12000	1	RMS	3425.047	-43.46	-13	Pass	9000
12000	20000	1	RMS	16315.539	-37	-13	Pass	8000
20- 10- 0- -10- (Egg) -20- -30- -40- -50-		J				A CONTRACTOR OF THE PARTY OF TH	Must	



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.17. LTE Transmitter Spurious Emissions(NTNV)(Subtest:17, Channel:20175, Bandwidth:3, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.58	-13	Pass	601
0.15	30	0.01	RMS	0.15	-53.63	-13	Pass	2985
30	1000	0.1	RMS	870.387	-58.66	-13	Pass	9700
1000	1700	1	RMS	1619.886	-49.26	-13	Pass	700
1700	1765	1	RMS	1731.2	22.79	60	Pass	601
1765	3000	1	RMS	2574.656	-43.52	-13	Pass	1235
3000	12000	1	RMS	5193.244	-43.93	-13	Pass	9000
12000	20000	1	RMS	16313.539	-37.01	-13	Pass	8000
30- 20- 10- 0- -10- -20- -30- -40-						. ite		



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.18. LTE Transmitter Spurious Emissions(NTNV)(Subtest:18, Channel:20175, Bandwidth:3, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.14	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.97	-13	Pass	2985
30	1000	0.1	RMS	916.291	-58.77	-13	Pass	9700
1000	1700	1	RMS	1658.941	-49.29	-13	Pass	700
1700	1765	1	RMS	1733.8	22.8	60	Pass	601
1765	3000	1	RMS	2573.655	-43.51	-13	Pass	1235
3000	12000	1	RMS	5201.245	-44.47	-13	Pass	9000
12000	20000	1	RMS	16319.54	-37.01	-13	Pass	8000
30 - 20 - 10 - 0 - -10 - -20 - -30 - -40 -								



1.19. LTE Transmitter Spurious Emissions(NTNV)(Subtest:19, Channel:20175, Bandwidth:3, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.27	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.89	-13	Pass	2985
30	1000	0.1	RMS	970.197	-58.7	-13	Pass	9700
1000	1700	1	RMS	1671.96	-49.32	-13	Pass	700
1700	1765	1	RMS	1731.2	21.83	60	Pass	601
1765	3000	1	RMS	2576.657	-43.53	-13	Pass	1235
3000	12000	1	RMS	11902.989	-44.7	-13	Pass	9000
12000	20000	1	RMS	16319.54	-37.04	-13	Pass	8000
30- 20- 10- 0- -10-								





-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.20. LTE Transmitter Spurious Emissions(NTNV)(Subtest:20, Channel:20175, Bandwidth:3, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-54.12	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.23	-13	Pass	2985
30	1000	0.1	RMS	972.097	-58.78	-13	Pass	9700
1000	1700	1	RMS	1673.963	-49.33	-13	Pass	700
1700	1765	1	RMS	1733.8	21.82	60	Pass	601
1765	3000	1	RMS	2581.661	-43.54	-13	Pass	1235
3000	12000	1	RMS	11910.99	-44.69	-13	Pass	9000
12000	20000	1	RMS	16318.54	-37.03	-13	Pass	8000
30- 20- 10- 0- -10- (Wap) -30- -40-						and the second second	M	



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.21. LTE Transmitter Spurious Emissions(NTNV)(Subtest:21, Channel:20385, Bandwidth:3, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.29	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.79	-13	Pass	2985
30	1000	0.1	RMS	915.891	-58.72	-13	Pass	9700
1000	1700	1	RMS	1673.963	-49.29	-13	Pass	700
1700	1765	1	RMS	1752.217	22.8	60	Pass	601
1765	3000	1	RMS	2577.658	-43.51	-13	Pass	1235
3000	12000	1	RMS	3504.056	-42.88	-13	Pass	9000
12000	20000	1	RMS	16415.552	-36.98	-13	Pass	8000
30- 20- 10- 0- -10- -20- 50- -30- -40-						and the second	Manh	



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.22. LTE Transmitter Spurious Emissions(NTNV)(Subtest:22, Channel:20385, Bandwidth:3, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.14	-13	Pass	60 ⁻
0.15	30	0.01	RMS	0.15	-52.64	-13	Pass	298
30	1000	0.1	RMS	904.89	-58.76	-13	Pass	970
1000	1700	1	RMS	1676.967	-49.31	-13	Pass	70
1700	1765	1	RMS	1754.708	22.8	60	Pass	60 ⁻
1765	3000	1	RMS	2573.655	-43.51	-13	Pass	123
3000	12000	1	RMS	3509.057	-44.15	-13	Pass	900
12000	20000	1	RMS	16312.539	-37.01	-13	Pass	8000
30- 20- 10- 0- -10- -20- -30-								



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.23. LTE Transmitter Spurious Emissions(NTNV)(Subtest:23, Channel:20385, Bandwidth:3, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.5	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.84	-13	Pass	2985
30	1000	0.1	RMS	909.991	-58.78	-13	Pass	9700
1000	1700	1	RMS	1675.966	-49.32	-13	Pass	700
1700	1765	1	RMS	1752.217	21.84	60	Pass	601
1765	3000	1	RMS	2598.675	-43.52	-13	Pass	1235
3000	12000	1	RMS	3504.056	-43.8	-13	Pass	9000
12000	20000	1	RMS	16314.539	-37.11	-13	Pass	8000
30- 20- 10- 0- -10- -20- -30- -40-								



-40-

-50-

-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.24. LTE Transmitter Spurious Emissions(NTNV)(Subtest:24, Channel:20385, Bandwidth:3, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.011	-53.92	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.9	-13	Pass	2985
30	1000	0.1	RMS	930.593	-58.73	-13	Pass	9700
1000	1700	1	RMS	1686.981	-49.34	-13	Pass	700
1700	1765	1	RMS	1754.817	21.84	60	Pass	601
1765	3000	1	RMS	2575.656	-43.56	-13	Pass	1235
3000	12000	1	RMS	3509.057	-44.66	-13	Pass	9000
12000	20000	1	RMS	16319.54	-37.05	-13	Pass	8000
30- 20- 10- 0- -10- En -20-								



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.25. LTE Transmitter Spurious Emissions(NTNV)(Subtest:25, Channel:19975, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.73	-13	Pass	60
0.15	30	0.01	RMS	0.15	-52.2	-13	Pass	298
30	1000	0.1	RMS	882.388	-58.85	-13	Pass	970
1000	1700	1	RMS	1700	-49.06	-13	Pass	70
1700	1765	1	RMS	1710.292	22.74	60	Pass	60
1765	3000	1	RMS	2574.656	-43.7	-13	Pass	123
3000	12000	1	RMS	5131.237	-40.77	-13	Pass	900
12000	20000	1	RMS	16310.539	-37.13	-13	Pass	800
20- 10- 0- -10-								
-20- -30- -40- -50-		<u></u>		M-1	,	photo and the second	Mun	



1.26. LTE Transmitter Spurious Emissions(NTNV)(Subtest:26, Channel:19975, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.35	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.68	-13	Pass	2985
30	1000	0.1	RMS	927.793	-58.75	-13	Pass	9700
1000	1700	1	RMS	1697.997	-49.32	-13	Pass	700
1700	1765	1	RMS	1714.625	22.77	60	Pass	601
1765	3000	1	RMS	2578.659	-43.68	-13	Pass	1235
3000	12000	1	RMS	3429.048	-42.42	-13	Pass	9000
12000	20000	1	RMS	16317.54	-37.14	-13	Pass	8000
20- 10- 0- -10- (mg -20- -30- -40- -50- -60- -70- -80-		J						

6000

4000

0.009

2000

8000

Frequency(MHz)

10000 12000 14000 16000

18000

20000



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

14000

16000

18000

20000

1.27. LTE Transmitter Spurious Emissions(NTNV)(Subtest:27, Channel:19975, Bandwidth:5, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.8	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.78	-13	Pass	298
30	1000	0.1	RMS	895.889	-58.91	-13	Pass	9700
1000	1700	1	RMS	1700	-49.2	-13	Pass	700
1700	1765	1	RMS	1710.4	21.87	60	Pass	601
1765	3000	1	RMS	2572.654	-43.7	-13	Pass	1235
3000	12000	1	RMS	5131.237	-41.84	-13	Pass	9000
12000	20000	1	RMS	16415.552	-37.16	-13	Pass	8000
30- 20- 10- 0- -10- (Egp) -30- -40-						- Andrews - Andr	Men	



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.28. LTE Transmitter Spurious Emissions(NTNV)(Subtest:28, Channel:19975, Bandwidth:5, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.37	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.97	-13	Pass	2985
30	1000	0.1	RMS	996.7	-58.52	-13	Pass	9700
1000	1700	1	RMS	1698.999	-49.44	-13	Pass	700
1700	1765	1	RMS	1714.625	21.84	60	Pass	601
1765	3000	1	RMS	2580.66	-43.71	-13	Pass	1235
3000	12000	1	RMS	3429.048	-43.16	-13	Pass	9000
12000	20000	1	RMS	19977.997	-37.25	-13	Pass	8000
30 - 20 - 10 - 0 - -10 - -20 - -30 - -40 -								



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.29. LTE Transmitter Spurious Emissions(NTNV)(Subtest:29, Channel:20175, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-54.19	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.46	-13	Pass	2985
30	1000	0.1	RMS	880.288	-58.42	-13	Pass	9700
1000	1700	1	RMS	1680.973	-48.92	-13	Pass	700
1700	1765	1	RMS	1730.333	22.79	60	Pass	601
1765	3000	1	RMS	2581.661	-43.7	-13	Pass	1235
3000	12000	1	RMS	5191.243	-43.06	-13	Pass	9000
12000	20000	1	RMS	16319.54	-37.1	-13	Pass	8000
30- 20- 10- 0- -10- (\(\text{\tin}\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\text{\texi{\text{\texi\text{\text{\texi}\text{\text{\text{\text{\text{\texi}\text{\text{\text{\te								



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

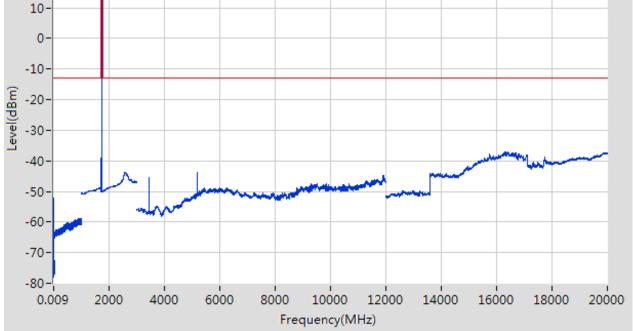
1.30. LTE Transmitter Spurious Emissions(NTNV)(Subtest:30, Channel:20175, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

0.15 30 0.01 RMS 0.15 -51.9 -13 Pass 298 30 1000 0.1 RMS 969.997 -58.76 -13 Pass 970 1000 1700 1 RMS 1673.963 -48.93 -13 Pass 70 1700 1765 1 RMS 1734.667 22.71 60 Pass 60 1765 3000 1 RMS 2581.661 -43.7 -13 Pass 123 3000 12000 1 RMS 3469.052 -44.73 -13 Pass 900 12000 20000 1 RMS 16320.54 -37.2 -13 Pass 800	Start requency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	0.009	0.15	0.001	RMS	0.011	-53.84	-13	Pass	601
1000	0.15	30	0.01	RMS	0.15	-51.9	-13	Pass	298
1700 1765 1 RMS 1734.667 22.71 60 Pass 60 1765 3000 1 RMS 2581.661 -43.7 -13 Pass 123 3000 12000 1 RMS 3469.052 -44.73 -13 Pass 900 12000 20000 1 RMS 16320.54 -37.2 -13 Pass 800 30- 20- 10102030-	30	1000	0.1	RMS	969.997	-58.76	-13	Pass	9700
1765 3000 1 RMS 2581.661 -43.7 -13 Pass 123 3000 12000 1 RMS 3469.052 -44.73 -13 Pass 900 12000 20000 1 RMS 16320.54 -37.2 -13 Pass 800 30- 20- 10102030-	1000	1700	1	RMS	1673.963	-48.93	-13	Pass	700
3000 12000 1 RMS 3469.052 -44.73 -13 Pass 900 12000 20000 1 RMS 16320.54 -37.2 -13 Pass 800 30- 20- 10102030-	1700	1765	1	RMS	1734.667	22.71	60	Pass	60
12000 20000 1 RMS 16320.54 -37.2 -13 Pass 800	1765	3000	1	RMS	2581.661	-43.7	-13	Pass	1235
30- 20- 10- 0- -10- -20- -30-	3000	12000	1	RMS	3469.052	-44.73	-13	Pass	9000
20- 10- 0102030-	12000	20000	1	RMS	16320.54	-37.2	-13	Pass	8000
	20- 10- 0- -10-								



1.31. LTE Transmitter Spurious Emissions(NTNV)(Subtest:31, Channel:20175, Bandwidth:5, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.72	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.28	-13	Pass	2985
30	1000	0.1	RMS	916.591	-58.91	-13	Pass	9700
1000	1700	1	RMS	1683.977	-48.91	-13	Pass	700
1700	1765	1	RMS	1730.333	21.82	60	Pass	601
1765	3000	1	RMS	2576.657	-43.73	-13	Pass	1235
3000	12000	1	RMS	5191.243	-43.82	-13	Pass	9000
12000	20000	1	RMS	16314.539	-37.11	-13	Pass	8000
30- 20- 10- 0- -10-								





1.32. LTE Transmitter Spurious Emissions(NTNV)(Subtest:32, Channel:20175, Bandwidth:5, Modulation:16QAM, RB Number: 1, RB Position:HIGH)



1.33. LTE Transmitter Spurious Emissions(NTNV)(Subtest:33, Channel:20375, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.012	-54.6	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.88	-13	Pass	2985
30	1000	0.1	RMS	911.691	-58.58	-13	Pass	9700
1000	1700	1	RMS	1681.974	-49.35	-13	Pass	700
1700	1765	1	RMS	1750.375	22.84	60	Pass	601
1765	3000	1	RMS	2586.665	-43.58	-13	Pass	1235
3000	12000	1	RMS	3501.056	-42.28	-13	Pass	9000
12000	20000	1	RMS	16318.54	-37.1	-13	Pass	8000
20- 10- 0- -10- ((mgp) -30- -30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000	8000	10000 12000	0 14000	16000	18000	20000
			Frequ	uency(MHz)				



-40

-50-

-60-

-70-

-80-

0.009

4000

2000

6000

1.34. LTE Transmitter Spurious Emissions(NTNV)(Subtest:34, Channel:20375, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-52.4	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.81	-13	Pass	2985
30	1000	0.1	RMS	997.8	-58.46	-13	Pass	9700
1000	1700	1	RMS	1618.884	-49.32	-13	Pass	700
1700	1765	1	RMS	1754.708	22.82	60	Pass	601
1765	3000	1	RMS	2570.652	-43.57	-13	Pass	1235
3000	12000	1	RMS	3509.057	-42.99	-13	Pass	9000
12000	20000	1	RMS	16597.575	-37.12	-13	Pass	8000
30 - 20 - 10 - 0 - -10 -								



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.35. LTE Transmitter Spurious Emissions(NTNV)(Subtest:35, Channel:20375, Bandwidth:5, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.93	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.2	-13	Pass	2985
30	1000	0.1	RMS	905.59	-58.62	-13	Pass	9700
1000	1700	1	RMS	1673.963	-49.37	-13	Pass	700
1700	1765	1	RMS	1750.375	21.8	60	Pass	601
1765	3000	1	RMS	2574.656	-43.58	-13	Pass	1235
3000	12000	1	RMS	3501.056	-42.87	-13	Pass	9000
12000	20000	1	RMS	16317.54	-37.11	-13	Pass	8000
30- 20- 10- 0- -10- -20- -30- -40-	A 1					ALCOHOLD STREET	Mant	



1.36. LTE Transmitter Spurious Emissions(NTNV)(Subtest:36, Channel:20375, Bandwidth:5, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.42	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.88	-13	Pass	2985
30	1000	0.1	RMS	934.093	-58.63	-13	Pass	9700
1000	1700	1	RMS	1674.964	-49.39	-13	Pass	700
1700	1765	1	RMS	1754.708	21.76	60	Pass	601
1765	3000	1	RMS	2594.672	-43.54	-13	Pass	1235
3000	12000	1	RMS	3509.057	-43.74	-13	Pass	9000
12000 30-	20000	1	RMS	16316.54	-37.19	-13	Pass	8000
20- 10- 0- -10- (\overline{\text{W}}{\text{P}}) -30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000	8000	10000 12000	0 14000	16000	18000	20000

Frequency(MHz)



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.37. LTE Transmitter Spurious Emissions(NTNV)(Subtest:37, Channel:20000, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-54.07	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.57	-13	Pass	298
30	1000	0.1	RMS	959.096	-58.82	-13	Pass	9700
1000	1700	1	RMS	1692.99	-40.12	-13	Pass	700
1700	1765	1	RMS	1710.617	22.93	60	Pass	601
1765	3000	1	RMS	2573.655	-43.57	-13	Pass	1235
3000	12000	1	RMS	3421.047	-40.76	-13	Pass	9000
12000	20000	1	RMS	16310.539	-37.19	-13	Pass	8000
30 - 20 - 10 - 0 - -10 - -20 - -30 - -40 -							Mun	



-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.38. LTE Transmitter Spurious Emissions(NTNV)(Subtest:38, Channel:20000, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.51	-13	Pass	601
0.15	30	0.01	RMS	0.16	-53.12	-13	Pass	2985
30	1000	0.1	RMS	906.09	-58.7	-13	Pass	9700
1000	1700	1	RMS	1700	-49.1	-13	Pass	700
1700	1765	1	RMS	1719.392	22.98	60	Pass	601
1765	3000	1	RMS	2575.656	-43.55	-13	Pass	1235
3000	12000	1	RMS	3439.049	-43.68	-13	Pass	9000
12000	20000	1	RMS	16418.552	-37.21	-13	Pass	8000
30- 20- 10- 0- -10- -20- 50 -30- -40-						Account of the second	Mun	



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.39. LTE Transmitter Spurious Emissions(NTNV)(Subtest:39, Channel:20000, Bandwidth:10, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.5	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.91	-13	Pass	298
30	1000	0.1	RMS	894.589	-58.68	-13	Pass	970
1000	1700	1	RMS	1692.99	-41.1	-13	Pass	700
1700	1765	1	RMS	1710.617	22.13	60	Pass	60
1765	3000	1	RMS	2583.663	-43.59	-13	Pass	1235
3000	12000	1	RMS	3421.047	-41.22	-13	Pass	9000
12000	20000	1	RMS	16317.54	-37.2	-13	Pass	8000
30- 20- 10- 0- -10- -20- -30- -40-						And the same of th	P. Mary Market	



1.40. LTE Transmitter Spurious Emissions(NTNV)(Subtest:40, Channel:20000, Bandwidth:10, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.61	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.13	-13	Pass	2985
30	1000	0.1	RMS	942.094	-58.78	-13	Pass	9700
1000	1700	1	RMS	1700	-49.17	-13	Pass	700
1700	1765	1	RMS	1719.392	22.09	60	Pass	601
1765	3000	1	RMS	2577.658	-43.59	-13	Pass	1235
3000	12000	1	RMS	3439.049	-44.36	-13	Pass	9000
12000 30-	20000	1	RMS	16317.54	-37.19	-13	Pass	8000
20- 10- 0- -10- (mgp) -30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000		10000 12000 Jency(MHz)	0 14000	16000	18000	20000



-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.41. LTE Transmitter Spurious Emissions(NTNV)(Subtest:41, Channel:20175, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start requency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.41	-13	Pass	601
0.15	30	0.01	RMS	0.15	-53.58	-13	Pass	298
30	1000	0.1	RMS	935.093	-58.84	-13	Pass	9700
1000	1700	1	RMS	1679.971	-49.32	-13	Pass	700
1700	1765	1	RMS	1728.058	22.97	60	Pass	60
1765	3000	1	RMS	2584.664	-43.59	-13	Pass	123
3000	12000	1	RMS	5184.243	-42.06	-13	Pass	9000
12000	20000	1	RMS	16318.54	-37.16	-13	Pass	800
20- 10- 0- -10- -20-								
-40-						Market Market	Mary Mary	



-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

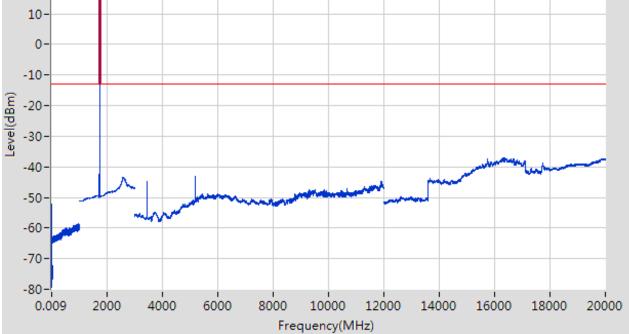
1.42. LTE Transmitter Spurious Emissions(NTNV)(Subtest:42, Channel:20175, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

0.15 30 0.01 RMS 0.15 -53.44 -13 Pass 298 30 1000 0.1 RMS 920.792 -58.52 -13 Pass 970 1000 1700 1 RMS 1676.967 -49.34 -13 Pass 70 1700 1765 1 RMS 1736.942 22.85 60 Pass 60 1765 3000 1 RMS 2574.656 -43.58 -13 Pass 123 3000 12000 1 RMS 3474.053 -43.97 -13 Pass 900 12000 20000 1 RMS 16319.54 -37.14 -13 Pass 800	Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	0.009	0.15	0.001	RMS	0.01	-54.21	-13	Pass	601
1000	0.15	30	0.01	RMS	0.15	-53.44	-13	Pass	298
1700 1765 1 RMS 1736.942 22.85 60 Pass 60 1765 3000 1 RMS 2574.656 -43.58 -13 Pass 123 3000 12000 1 RMS 3474.053 -43.97 -13 Pass 900 12000 20000 1 RMS 16319.54 -37.14 -13 Pass 800 30- 20- 10102030-	30	1000	0.1	RMS	920.792	-58.52	-13	Pass	970
1765 3000 1 RMS 2574.656 -43.58 -13 Pass 123 3000 12000 1 RMS 3474.053 -43.97 -13 Pass 900 12000 20000 1 RMS 16319.54 -37.14 -13 Pass 800 30- 20- 10102030-	1000	1700	1	RMS	1676.967	-49.34	-13	Pass	700
3000 12000 1 RMS 3474.053 -43.97 -13 Pass 900 12000 20000 1 RMS 16319.54 -37.14 -13 Pass 800 30- 20- 10102030-	1700	1765	1	RMS	1736.942	22.85	60	Pass	601
12000 20000 1 RMS 16319.54 -37.14 -13 Pass 800	1765	3000	1	RMS	2574.656	-43.58	-13	Pass	1235
30- 20- 10- 0- -10- -20- -30-	3000	12000	1	RMS	3474.053	-43.97	-13	Pass	9000
20- 10- 0- -10- -20- -30-	12000	20000	1	RMS	16319.54	-37.14	-13	Pass	8000
-40-	10- 0- -10-								



1.43. LTE Transmitter Spurious Emissions(NTNV)(Subtest:43, Channel:20175, Bandwidth:10, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.71	-13	Pass	601
0.15	30	0.01	RMS	0.16	-52.25	-13	Pass	2985
30	1000	0.1	RMS	978.698	-58.44	-13	Pass	9700
1000	1700	1	RMS	1676.967	-49.35	-13	Pass	700
1700	1765	1	RMS	1728.058	21.93	60	Pass	601
1765	3000	1	RMS	2598.675	-43.6	-13	Pass	1235
3000	12000	1	RMS	5184.243	-43.28	-13	Pass	9000
12000	20000	1	RMS	16381.548	-37.2	-13	Pass	8000
30- 20- 10- 0- -10-								





-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.44. LTE Transmitter Spurious Emissions(NTNV)(Subtest:44, Channel:20175, Bandwidth:10, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.47	-13	Pass	601
0.15	30	0.01	RMS	0.16	-53.27	-13	Pass	2985
30	1000	0.1	RMS	927.493	-58.7	-13	Pass	9700
1000	1700	1	RMS	1670.959	-49.34	-13	Pass	700
1700	1765	1	RMS	1736.942	21.86	60	Pass	601
1765	3000	1	RMS	2569.652	-43.58	-13	Pass	1235
3000	12000	1	RMS	3474.053	-44.45	-13	Pass	9000
12000	20000	1	RMS	16320.54	-37.23	-13	Pass	8000
30- 20- 10- 0- -10- -20-								



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.45. LTE Transmitter Spurious Emissions(NTNV)(Subtest:45, Channel:20350, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.95	-13	Pass	601
0.15	30	0.01	RMS	0.16	-52.77	-13	Pass	2985
30	1000	0.1	RMS	897.389	-58.58	-13	Pass	9700
1000	1700	1	RMS	1679.971	-49.35	-13	Pass	700
1700	1765	1	RMS	1745.608	22.82	60	Pass	601
1765	3000	1	RMS	2572.654	-43.59	-13	Pass	1235
3000	12000	1	RMS	3491.055	-41.62	-13	Pass	9000
12000	20000	1	RMS	16313.539	-37.17	-13	Pass	8000
30- 20- 10- 0- -10- (\(\text{\text{\$\text{\$0\$}}}\) -20-								



1.46. LTE Transmitter Spurious Emissions(NTNV)(Subtest:46, Channel:20350, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.06	-13	Pass	601
0.15	30	0.01	RMS	0.15	-53.08	-13	Pass	2985
30	1000	0.1	RMS	872.687	-58.81	-13	Pass	9700
1000	1700	1	RMS	1680.973	-49.35	-13	Pass	700
1700	1765	1	RMS	1754.383	22.87	60	Pass	601
1765	3000	1	RMS	2575.656	-43.59	-13	Pass	1235
3000	12000	1	RMS	3509.057	-42.68	-13	Pass	9000
12000	20000	1	RMS	16421.553	-37.17	-13	Pass	8000
30- 20- 10- 0- -10-								





-40-

-50-

-60-

-70-

-80-

0.009

4000

2000

6000

1.47. LTE Transmitter Spurious Emissions(NTNV)(Subtest:47, Channel:20350, Bandwidth:10, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-54.08	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.7	-13	Pass	2985
30	1000	0.1	RMS	999.6	-58.78	-13	Pass	9700
1000	1700	1	RMS	1671.96	-49.37	-13	Pass	700
1700	1765	1	RMS	1745.608	21.94	60	Pass	601
1765	3000	1	RMS	2581.661	-43.55	-13	Pass	1235
3000	12000	1	RMS	3491.055	-42.16	-13	Pass	9000
12000	20000	1	RMS	16415.552	-37.14	-13	Pass	8000
30- 20- 10- 0- -10- Eng-20-								



-40

-50-

-60-

-70-

-80-

0.009

4000

2000

6000

8000

12000

14000

10000

Frequency(MHz)

16000

18000

20000

1.48. LTE Transmitter Spurious Emissions(NTNV)(Subtest:48, Channel:20350, Bandwidth:10, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.98	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.33	-13	Pass	2985
30	1000	0.1	RMS	984.998	-58.76	-13	Pass	9700
1000	1700	1	RMS	1681.974	-49.34	-13	Pass	700
1700	1765	1	RMS	1754.383	21.88	60	Pass	601
1765	3000	1	RMS	2592.67	-43.62	-13	Pass	1235
3000	12000	1	RMS	3509.057	-43.4	-13	Pass	9000
12000	20000	1	RMS	16314.539	-36.94	-13	Pass	8000
30- 20- 10- 0- -10- (Eg) -20-								



-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.49. LTE Transmitter Spurious Emissions(NTNV)(Subtest:49, Channel:20025, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

	00 65 65 60 60 60 60 60 60 60 60 60 60 60 60 60	01 RM	//S //S //S //S //S	0.009 0.15 981.498 1697.997 1710.833 2567.65 5132.237 16318.54	-54.31 -52.84 -58.69 -45.57 22.99 -43.6 -41.29 -37.16	-13 -13 -13 -13 -60 -13 -13	Pass Pass Pass Pass Pass Pass Pass	60° 2985 9700 700 60° 1235 9000
30 100 1000 170 1700 170 1765 300 3000 1200 12000 2000 30- 20- 10- 0-	00 0.1 00 65 65 600 600 600 600 600 600 600 600	1 RM 1 RM 1 RM 1 RM	//S //S //S //S	981.498 1697.997 1710.833 2567.65 5132.237	-58.69 -45.57 22.99 -43.6 -41.29	-13 -13 60 -13 -13	Pass Pass Pass Pass	9700 700 601 1235
1000 170 1700 170 1765 300 3000 1200 12000 2000	00 65 65 60 60 60 60 60 60 60 60 60 60 60 60 60	1 RM 1 RM 1 RM	AS AS AS	1697.997 1710.833 2567.65 5132.237	-45.57 22.99 -43.6 -41.29	-13 60 -13 -13	Pass Pass Pass	700 60° 1239
1700 170 1765 300 3000 1200 12000 2000 30- 20- 10- 0-	65 00 00	1 RM 1 RM 1 RM	AS AS	1710.833 2567.65 5132.237	22.99 -43.6 -41.29	60 -13 -13	Pass Pass	60 123
1765 300 3000 1200 12000 2000 30- 20- 10- 0-	00 -	1 RM	NS NS	2567.65 5132.237	-43.6 -41.29	-13 -13	Pass	123
3000 1200 12000 2000 30- 20- 10- 0-	00	1 RM	ЛS	5132.237	-41.29	-13		
12000 2000 30- 20- 10- 0-							Pass	9000
30- 20- 10- 0-	00	1 RM	/IS	16318.54	27 16	4.0		
20- 10- 0-		, , , , , , , , , , , , , , , , , , ,			-37.10	-13	Pass	8000
-30-								



1.50. LTE Transmitter Spurious Emissions(NTNV)(Subtest:50, Channel:20025, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-52.88	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.21	-13	Pass	2985
30	1000	0.1	RMS	894.789	-58.74	-13	Pass	9700
1000	1700	1	RMS	1697.997	-34.43	-13	Pass	700
1700	1765	1	RMS	1724.158	23.01	60	Pass	601
1765	3000	1	RMS	2597.674	-43.55	-13	Pass	1235
3000	12000	1	RMS	5172.241	-43.21	-13	Pass	9000
12000 30-	20000	1	RMS	16318.54	-37.27	-13	Pass	8000
20- 10- 0- -10- (\(\mathbb{W}\) -20- -30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000	8000	10000 12000	0 14000	16000	18000	20000

Frequency(MHz)



-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.51. LTE Transmitter Spurious Emissions(NTNV)(Subtest:51, Channel:20025, Bandwidth:15, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.26	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.68	-13	Pass	2985
30	1000	0.1	RMS	894.189	-58.64	-13	Pass	9700
1000	1700	1	RMS	1697.997	-46.26	-13	Pass	700
1700	1765	1	RMS	1710.833	22.15	60	Pass	601
1765	3000	1	RMS	2576.657	-43.57	-13	Pass	1235
3000	12000	1	RMS	5132.237	-42	-13	Pass	9000
12000	20000	1	RMS	16320.54	-37.16	-13	Pass	8000
30- 20- 10- 0- -10- (Mg -20- -30- -40-						photo and the same of the same	Muni	



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.52. LTE Transmitter Spurious Emissions(NTNV)(Subtest:52, Channel:20025, Bandwidth:15, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.012	-54.39	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.89	-13	Pass	2985
30	1000	0.1	RMS	877.387	-58.84	-13	Pass	9700
1000	1700	1	RMS	1697.997	-34.01	-13	Pass	700
1700	1765	1	RMS	1724.158	22.08	60	Pass	601
1765	3000	1	RMS	2581.661	-43.56	-13	Pass	1235
3000	12000	1	RMS	5172.241	-43.86	-13	Pass	9000
12000	20000	1	RMS	16416.552	-37.12	-13	Pass	8000
30- 20- 10- 0- -10- -20- -30- -40-								



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.53. LTE Transmitter Spurious Emissions(NTNV)(Subtest:53, Channel:20175, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.06	-13	Pass	601
0.15	30	0.01	RMS	0.16	-52.29	-13	Pass	2985
30	1000	0.1	RMS	902.49	-58.7	-13	Pass	9700
1000	1700	1	RMS	1698.999	-42.49	-13	Pass	700
1700	1765	1	RMS	1725.783	22.94	60	Pass	601
1765	3000	1	RMS	2581.661	-43.54	-13	Pass	1235
3000	12000	1	RMS	5177.242	-42.92	-13	Pass	9000
12000	20000	1	RMS	16319.54	-37.18	-13	Pass	8000
30- 20- 10- 0- -10- -20-								



-80-

0.009

Frequency(MHz)

1.54. LTE Transmitter Spurious Emissions(NTNV)(Subtest:54, Channel:20175, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.44	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.96	-13	Pass	2985
30	1000	0.1	RMS	988.199	-58.71	-13	Pass	9700
1000	1700	1	RMS	1683.977	-49.34	-13	Pass	700
1700	1765	1	RMS	1739.108	22.83	60	Pass	601
1765	3000	1	RMS	2576.657	-43.58	-13	Pass	1235
3000	12000	1	RMS	3478.053	-43.69	-13	Pass	9000
12000	20000	1	RMS	16319.54	-37.18	-13	Pass	8000
30- 20- 10- 0- -10- (\text{\$\ext{\$\text{\$\text{\$\ext{\$\tex{							***	



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.55. LTE Transmitter Spurious Emissions(NTNV)(Subtest:55, Channel:20175, Bandwidth:15, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.72	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.22	-13	Pass	2985
30	1000	0.1	RMS	919.292	-58.95	-13	Pass	9700
1000	1700	1	RMS	1698.999	-44.1	-13	Pass	700
1700	1765	1	RMS	1725.783	21.93	60	Pass	601
1765	3000	1	RMS	2587.666	-43.6	-13	Pass	1235
3000	12000	1	RMS	5177.242	-43.63	-13	Pass	9000
12000	20000	1	RMS	16417.552	-37.23	-13	Pass	8000
30- 20- 10- 0- -10- (Egg) -20-								



1.56. LTE Transmitter Spurious Emissions(NTNV)(Subtest:56, Channel:20175, Bandwidth:15, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-52.3	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.83	-13	Pass	2985
30	1000	0.1	RMS	905.49	-58.69	-13	Pass	9700
1000	1700	1	RMS	1675.966	-49.36	-13	Pass	700
1700	1765	1	RMS	1739.108	21.86	60	Pass	601
1765	3000	1	RMS	2573.655	-43.61	-13	Pass	1235
3000	12000	1	RMS	3478.053	-44.07	-13	Pass	9000
12000 30-	20000	1	RMS	16315.539	-37.15	-13	Pass	8000
20- 10- 0- -10- (mgp))-30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000	8000	10000 12000	0 14000	16000	18000	20000

Frequency(MHz)



1.57. LTE Transmitter Spurious Emissions(NTNV)(Subtest:57, Channel:20325, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.62	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.81	-13	Pass	2985
30	1000	0.1	RMS	882.388	-58.32	-13	Pass	9700
1000	1700	1	RMS	1679.971	-49.35	-13	Pass	700
1700	1765	1	RMS	1740.842	22.85	60	Pass	601
1765	3000	1	RMS	1767.002	-30.83	-13	Pass	1235
3000	12000	1	RMS	3482.054	-43.41	-13	Pass	9000
12000	20000	1	RMS	16318.54	-37.19	-13	Pass	8000
20- 10- 0- -10- (mg-20- -30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000	8000	10000 12000	0 14000	16000	18000	20000

Frequency(MHz)



1.58. LTE Transmitter Spurious Emissions(NTNV)(Subtest:58, Channel:20325, Bandwidth:15, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-52.79	-13	Pass	601
0.15	30	0.01	RMS	0.16	-53.13	-13	Pass	2985
30	1000	0.1	RMS	887.988	-58.73	-13	Pass	9700
1000	1700	1	RMS	1622.89	-49.35	-13	Pass	700
1700	1765	1	RMS	1754.167	22.89	60	Pass	601
1765	3000	1	RMS	2574.656	-43.6	-13	Pass	1235
3000	12000	1	RMS	3508.056	-42.68	-13	Pass	9000
12000	20000	1	RMS	16319.54	-37.16	-13	Pass	8000
20- 10- 0- -10- (\(\mathbb{W}\) -20- -30- -40- -50- -60- -70-							Manh	

8000

10000

Frequency(MHz)

12000 14000

6000

2000

0.009

4000

20000

18000

16000



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.59. LTE Transmitter Spurious Emissions(NTNV)(Subtest:59, Channel:20325, Bandwidth:15, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.14	-13	Pass	60
0.15	30	0.01	RMS	0.15	-51.11	-13	Pass	298
30	1000	0.1	RMS	975.397	-58.8	-13	Pass	970
1000	1700	1	RMS	1671.96	-49.39	-13	Pass	700
1700	1765	1	RMS	1740.842	22.02	60	Pass	60
1765	3000	1	RMS	1767.002	-30.53	-13	Pass	1235
3000	12000	1	RMS	3482.054	-44.01	-13	Pass	9000
12000	20000	1	RMS	16311.539	-37.2	-13	Pass	8000
30- 20- 10- 0- -10- -20- -30-								



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.60. LTE Transmitter Spurious Emissions(NTNV)(Subtest:60, Channel:20325, Bandwidth:15, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.4	-13	Pass	60
0.15	30	0.01	RMS	0.15	-52.08	-13	Pass	298
30	1000	0.1	RMS	893.289	-58.97	-13	Pass	970
1000	1700	1	RMS	1672.961	-49.39	-13	Pass	70
1700	1765	1	RMS	1754.167	21.95	60	Pass	60
1765	3000	1	RMS	2573.655	-43.52	-13	Pass	123
3000	12000	1	RMS	3508.056	-43.32	-13	Pass	900
12000	20000	1	RMS	16412.552	-37.19	-13	Pass	800
30 - 20 - 10 - 0 - -10 - -20 - -30 - -40 -								



-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.61. LTE Transmitter Spurious Emissions(NTNV)(Subtest:61, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

(MHz)	Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.87	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.38	-13	Pass	298
30	1000	0.1	RMS	907.69	-58.71	-13	Pass	970
1000	1700	1	RMS	1692.99	-44.71	-13	Pass	700
1700	1765	1	RMS	1711.05	23.03	60	Pass	601
1765	3000	1	RMS	2575.656	-43.6	-13	Pass	1235
3000	12000	1	RMS	3422.047	-40.78	-13	Pass	9000
12000	20000	1	RMS	16319.54	-37.14	-13	Pass	8000
30- 20- 10- 0- -10- -20- -30- -40-								



-40

-50-

-60-

-70-

-80-

0.009

4000

2000

6000

1.62. LTE Transmitter Spurious Emissions(NTNV)(Subtest:62, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.27	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.39	-13	Pass	2985
30	1000	0.1	RMS	903.89	-58.64	-13	Pass	9700
1000	1700	1	RMS	1692.99	-35.7	-13	Pass	700
1700	1765	1	RMS	1728.925	23.04	60	Pass	601
1765	3000	1	RMS	2578.659	-43.6	-13	Pass	1235
3000	12000	1	RMS	5186.243	-43.54	-13	Pass	9000
12000	20000	1	RMS	16313.539	-37.06	-13	Pass	8000
30 - 20 - 10 - 0 - -10 - (\overline{\text{W}} 20 -								



1.63. LTE Transmitter Spurious Emissions(NTNV)(Subtest:63, Channel:20050, Bandwidth:20, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.02	-13	Pass	601
0.15	30	0.01	RMS	0.15	-53.51	-13	Pass	2985
30	1000	0.1	RMS	992.999	-58.64	-13	Pass	9700
1000	1700	1	RMS	1692.99	-46.17	-13	Pass	700
1700	1765	1	RMS	1711.158	22.19	60	Pass	601
1765	3000	1	RMS	2576.657	-43.59	-13	Pass	1235
3000	12000	1	RMS	3422.047	-41.48	-13	Pass	9000
12000 30-	20000	1	RMS	16319.54	-37.16	-13	Pass	8000
20- 10- 0- -10- (\(\text{Wg}\)) -30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000	8000	10000 12000	0 14000	16000	18000	20000

Frequency(MHz)



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.64. LTE Transmitter Spurious Emissions(NTNV)(Subtest:64, Channel:20050, Bandwidth:20, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.32	-13	Pass	60
0.15	30	0.01	RMS	0.15	-53.43	-13	Pass	298
30	1000	0.1	RMS	883.888	-58.8	-13	Pass	970
1000	1700	1	RMS	1692.99	-34.49	-13	Pass	70
1700	1765	1	RMS	1728.925	22.17	60	Pass	60
1765	3000	1	RMS	2580.66	-43.61	-13	Pass	123
3000	12000	1	RMS	5186.243	-44.51	-13	Pass	900
12000	20000	1	RMS	16318.54	-37.17	-13	Pass	800
30- 20- 10- 0- -10- -20- -30-						and the second second		



-40

-50-

-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.65. LTE Transmitter Spurious Emissions(NTNV)(Subtest:65, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.79	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.83	-13	Pass	2985
30	1000	0.1	RMS	960.796	-58.78	-13	Pass	9700
1000	1700	1	RMS	1687.983	-48.6	-13	Pass	700
1700	1765	1	RMS	1723.617	23.03	60	Pass	601
1765	3000	1	RMS	2580.66	-43.6	-13	Pass	1235
3000	12000	1	RMS	3447.05	-44.09	-13	Pass	9000
12000	20000	1	RMS	16313.539	-37.16	-13	Pass	8000
30- 20- 10- 0- -10- (Egg)-30-								



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.66. LTE Transmitter Spurious Emissions(NTNV)(Subtest:66, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-52.88	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.9	-13	Pass	298
30	1000	0.1	RMS	873.987	-58.87	-13	Pass	9700
1000	1700	1	RMS	1673.963	-49.32	-13	Pass	700
1700	1765	1	RMS	1741.383	22.85	60	Pass	601
1765	3000	1	RMS	2577.658	-43.57	-13	Pass	1235
3000	12000	1	RMS	3483.054	-42.56	-13	Pass	9000
12000	20000	1	RMS	16313.539	-37.15	-13	Pass	8000
30 - 20 - 10 - 0 - -10 - -20 - -30 - -40 -						- Anna Maria	*Messin	



1.67. LTE Transmitter Spurious Emissions(NTNV)(Subtest:67, Channel:20175, Bandwidth:20, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.65	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.88	-13	Pass	2985
30	1000	0.1	RMS	929.093	-58.79	-13	Pass	9700
1000	1700	1	RMS	1687.983	-49.08	-13	Pass	700
1700	1765	1	RMS	1723.617	22.03	60	Pass	601
1765	3000	1	RMS	2574.656	-43.6	-13	Pass	1235
3000	12000	1	RMS	3447.05	-44.48	-13	Pass	9000
12000	20000	1	RMS	16414.552	-37.22	-13	Pass	8000
30- 20- 10- 0- -10-								



1.68. LTE Transmitter Spurious Emissions(NTNV)(Subtest:68, Channel:20175, Bandwidth:20, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-53.9	-13	Pass	601
0.15	30	0.01	RMS	0.15	-52.55	-13	Pass	2985
30	1000	0.1	RMS	929.093	-58.8	-13	Pass	9700
1000	1700	1	RMS	1676.967	-49.38	-13	Pass	700
1700	1765	1	RMS	1741.383	21.89	60	Pass	601
1765	3000	1	RMS	2570.652	-43.58	-13	Pass	1235
3000	12000	1	RMS	3483.054	-43.02	-13	Pass	9000
12000	20000	1	RMS	16316.54	-37.06	-13	Pass	8000
20- 10- 0- -10- (mgh) -30- -40- -50- -60- -70- -80- 0.009	2000 4000	6000	8000	10000 12000	0 14000	16000	18000	20000

Frequency(MHz)



-60-

-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.69. LTE Transmitter Spurious Emissions(NTNV)(Subtest:69, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.76	-13	Pass	60 ⁻
0.15	30	0.01	RMS	0.15	-51.72	-13	Pass	298
30	1000	0.1	RMS	883.588	-58.81	-13	Pass	970
1000	1700	1	RMS	1700	-45.8	-13	Pass	70
1700	1765	1	RMS	1736.075	22.95	60	Pass	60
1765	3000	1	RMS	1772.006	-32.51	-13	Pass	123
3000	12000	1	RMS	3472.052	-43.86	-13	Pass	900
12000	20000	1	RMS	16320.54	-37.08	-13	Pass	800
30- 20- 10- 0- -10- -20- -30-								



-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.70. LTE Transmitter Spurious Emissions(NTNV)(Subtest:70, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-54.18	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.57	-13	Pass	2985
30	1000	0.1	RMS	917.491	-58.72	-13	Pass	9700
1000	1700	1	RMS	1681.974	-49.36	-13	Pass	700
1700	1765	1	RMS	1753.95	22.87	60	Pass	601
1765	3000	1	RMS	2569.652	-43.56	-13	Pass	1235
3000	12000	1	RMS	3508.056	-42.33	-13	Pass	9000
12000	20000	1	RMS	16311.539	-37.14	-13	Pass	8008
30- 20- 10- 0- -10- -20-								
-40-						Market Market	Men	



-70-

-80-

0.009

4000

2000

6000

8000

10000 12000

Frequency(MHz)

16000

14000

18000

20000

1.71. LTE Transmitter Spurious Emissions(NTNV)(Subtest:71, Channel:20300, Bandwidth:20, Modulation:16QAM, RB Number: 1, RB Position:LOW)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.009	-53.47	-13	Pass	60
0.15	30	0.01	RMS	0.15	-52.27	-13	Pass	298
30	1000	0.1	RMS	966.497	-58.67	-13	Pass	970
1000	1700	1	RMS	1700	-46.05	-13	Pass	70
1700	1765	1	RMS	1736.075	21.98	60	Pass	60
1765	3000	1	RMS	1772.006	-32.85	-13	Pass	123
3000	12000	1	RMS	3472.052	-44.47	-13	Pass	900
12000	20000	1	RMS	16318.54	-37.16	-13	Pass	800
30- 20- 10- 0- -10- -20- -40-								



-70-

-80-

0.009

4000

2000

6000

8000

10000

Frequency(MHz)

12000

14000

16000

18000

20000

1.72. LTE Transmitter Spurious Emissions(NTNV)(Subtest:72, Channel:20300, Bandwidth:20, Modulation:16QAM, RB Number: 1, RB Position:HIGH)

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
0.009	0.15	0.001	RMS	0.01	-54.23	-13	Pass	601
0.15	30	0.01	RMS	0.15	-51.75	-13	Pass	2985
30	1000	0.1	RMS	884.188	-58.77	-13	Pass	9700
1000	1700	1	RMS	1660.944	-49.39	-13	Pass	700
1700	1765	1	RMS	1753.95	21.87	60	Pass	601
1765	3000	1	RMS	2592.67	-43.62	-13	Pass	1235
3000	12000	1	RMS	3508.056	-43.06	-13	Pass	9000
12000	20000	1	RMS	16316.54	-37.19	-13	Pass	8000
30- 20- 10- 0- -10- -20- -30-						- Andrews	*ManA	



END