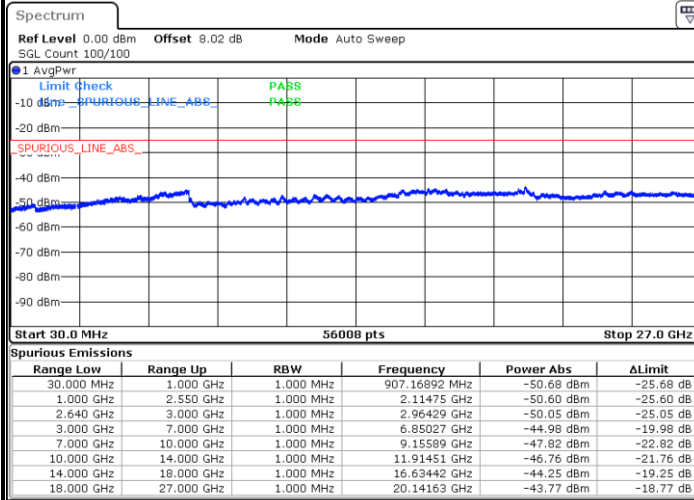




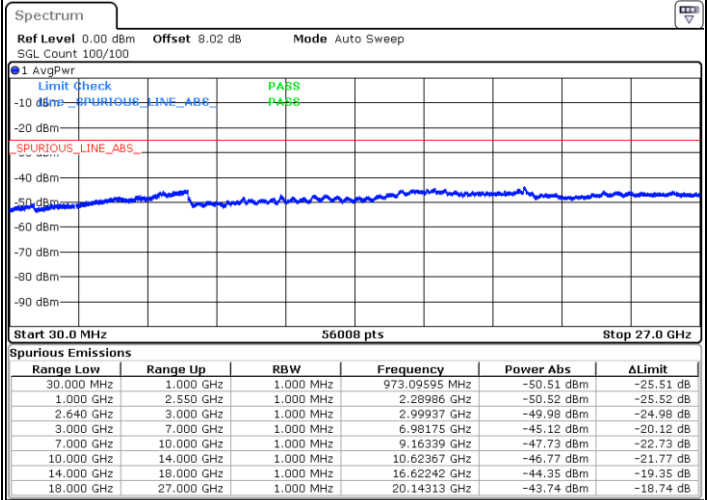
LTE Band 38 / 5MHz

Lowest Channel / QPSK



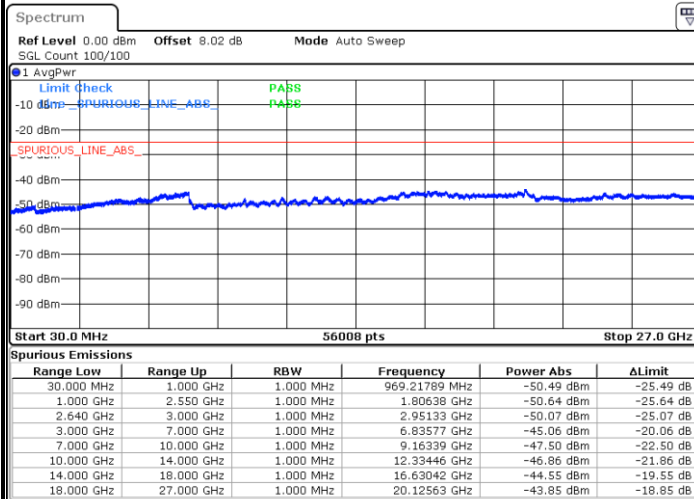
Date: 26 APR 2018 23:39:20

Lowest Channel / 16QAM



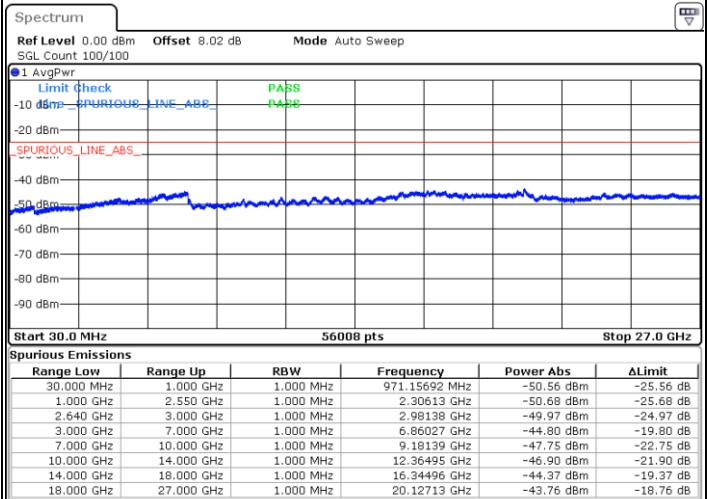
Date: 26 APR 2018 23:40:16

Middle Channel / QPSK



Date: 26 APR 2018 23:41:11

Middle Channel / 16QAM

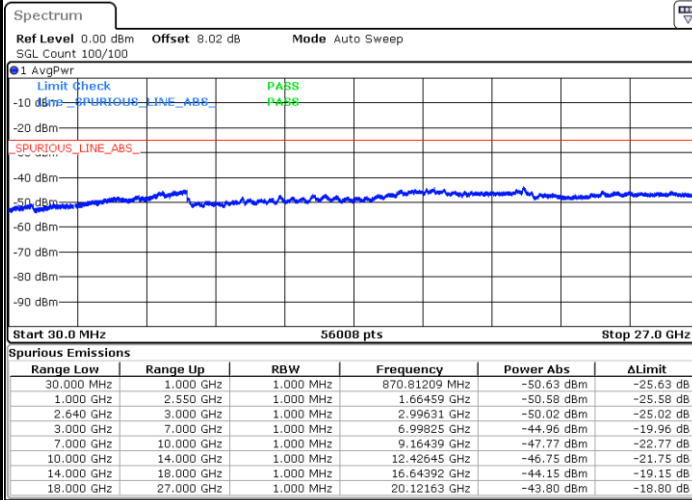


Date: 26 APR 2018 23:42:07



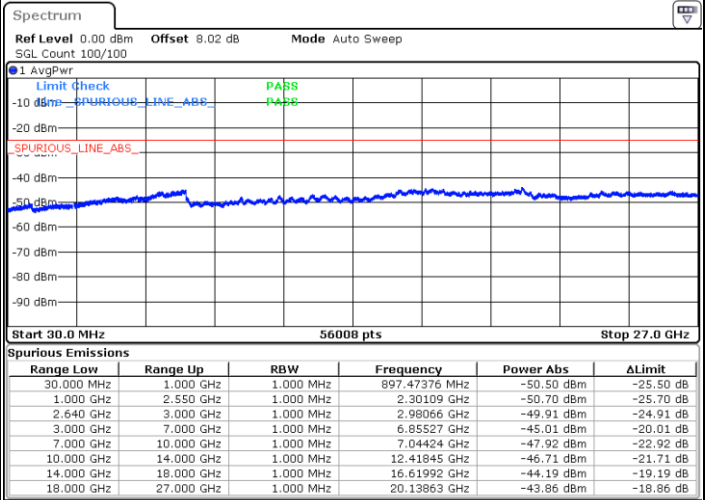
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 26 APR 2018 23:43:02

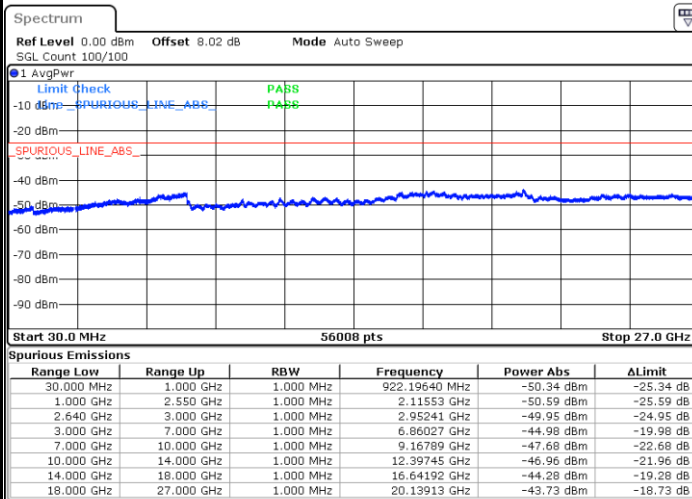
Highest Channel / 16QAM



Date: 26 APR 2018 23:46:54

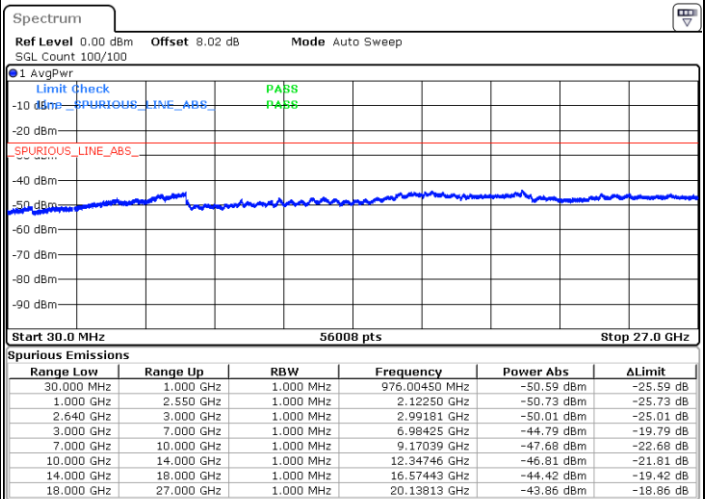
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 26 APR 2018 23:48:48

Lowest Channel / 16QAM

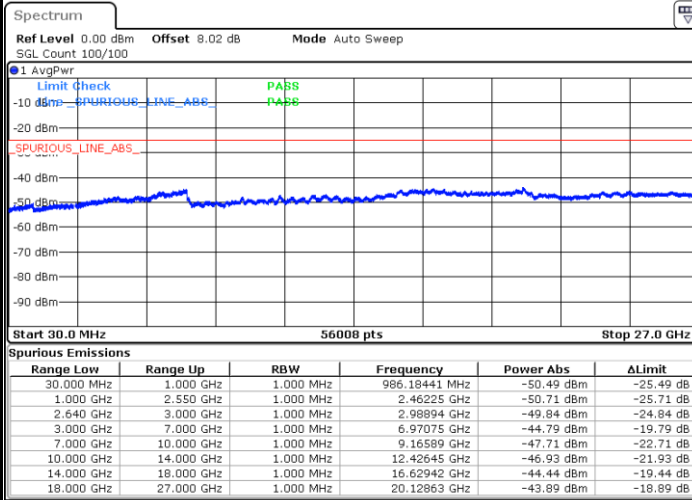


Date: 26 APR 2018 23:49:43



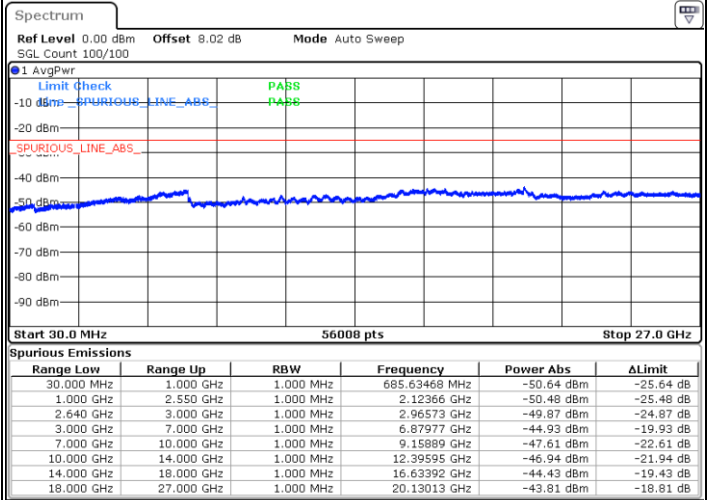
LTE Band 38 / 10MHz

Middle Channel / QPSK



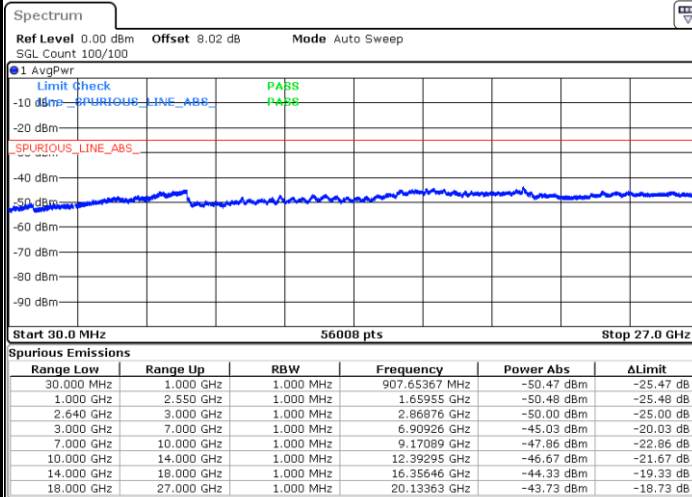
Date: 26 APR 2018 23:50:38

Middle Channel / 16QAM



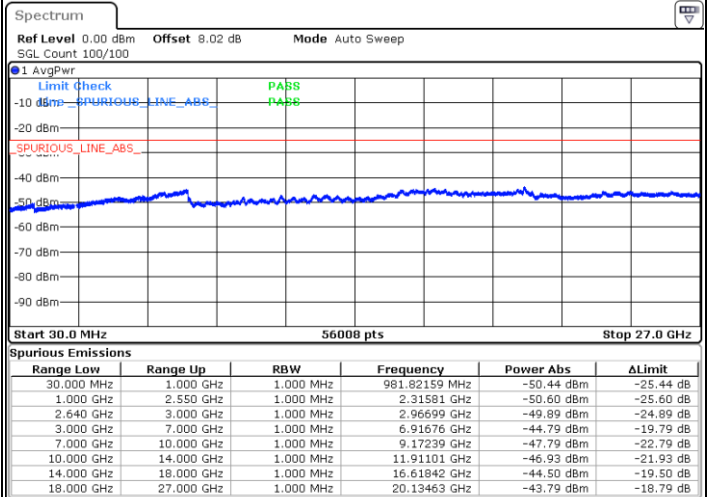
Date: 26 APR 2018 23:51:34

Highest Channel / QPSK



Date: 26 APR 2018 23:52:29

Highest Channel / 16QAM

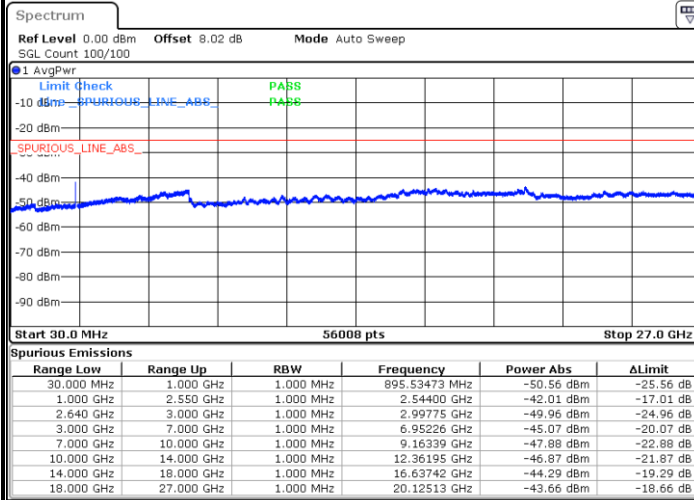


Date: 26 APR 2018 23:53:25



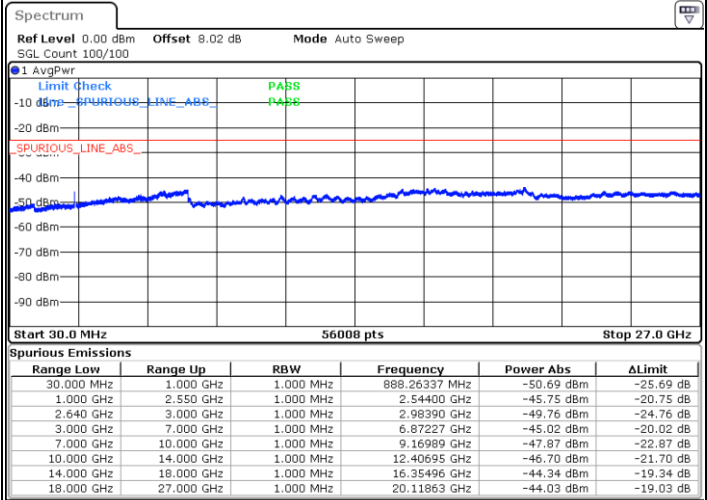
LTE Band 38 / 15MHz

Lowest Channel / QPSK



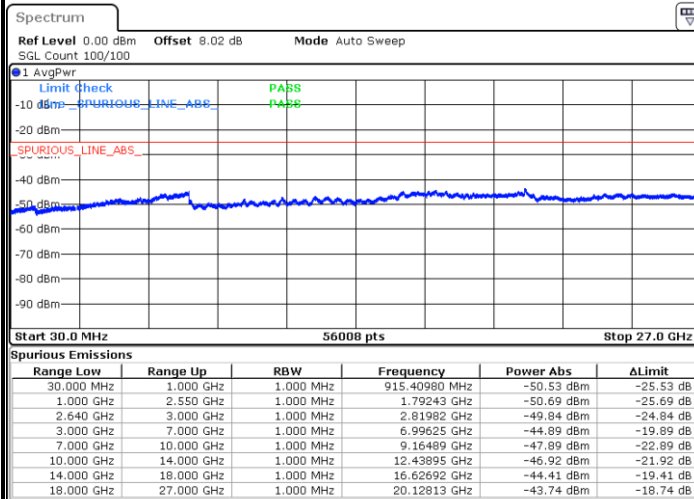
Date: 26 APR 2018 23:54:21

Lowest Channel / 16QAM



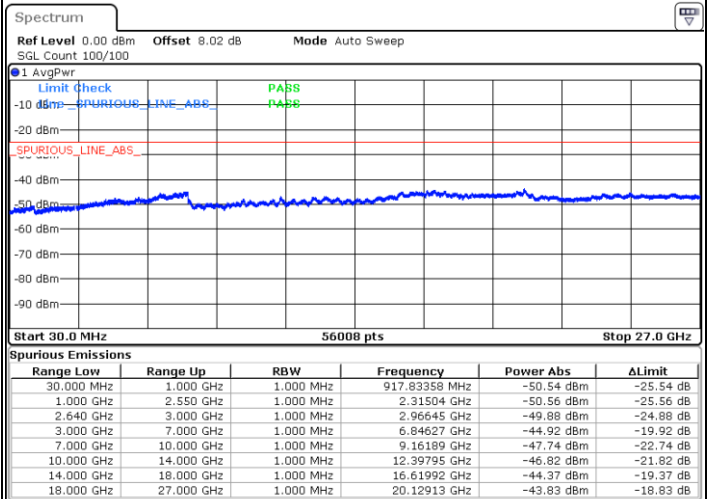
Date: 26 APR 2018 23:55:16

Middle Channel / QPSK



Date: 26 APR 2018 23:56:13

Middle Channel / 16QAM

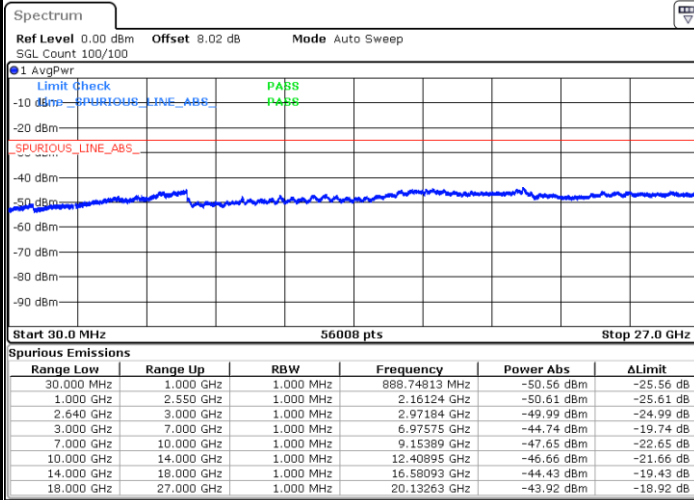


Date: 26 APR 2018 23:57:08



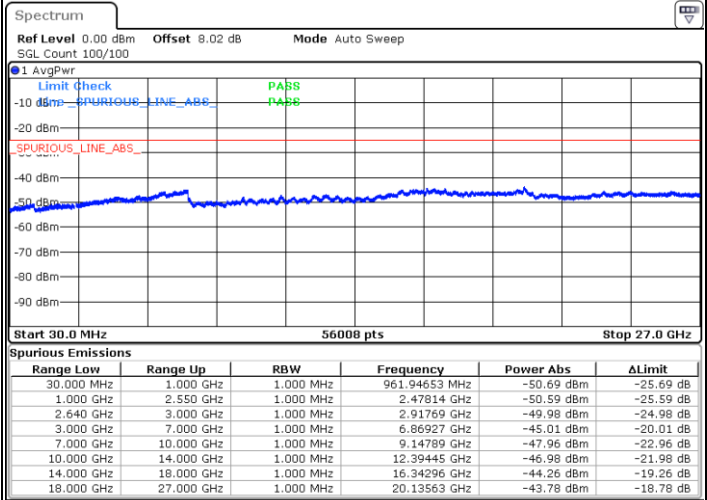
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 26 APR 2018 23:58:04

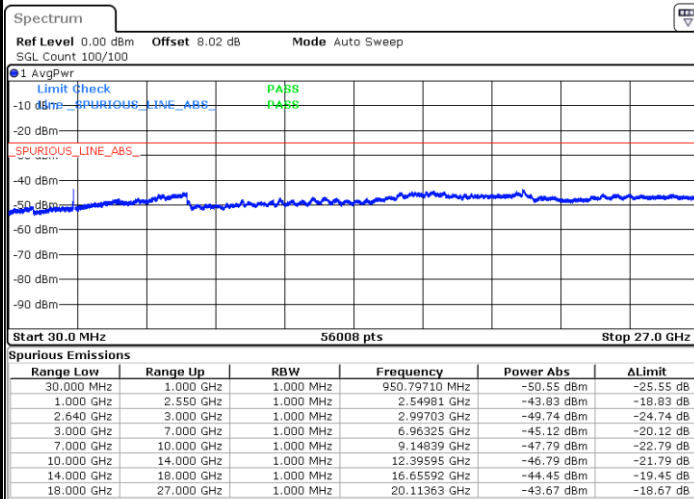
Highest Channel / 16QAM



Date: 26 APR 2018 23:58:59

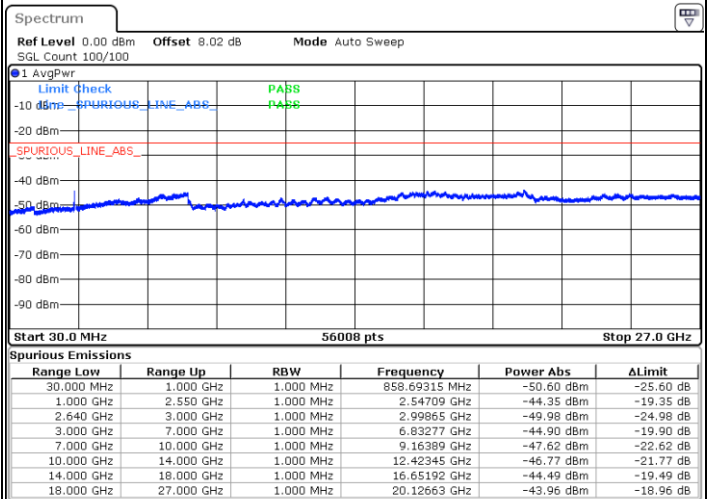
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 26 APR 2018 23:59:55

Lowest Channel / 16QAM

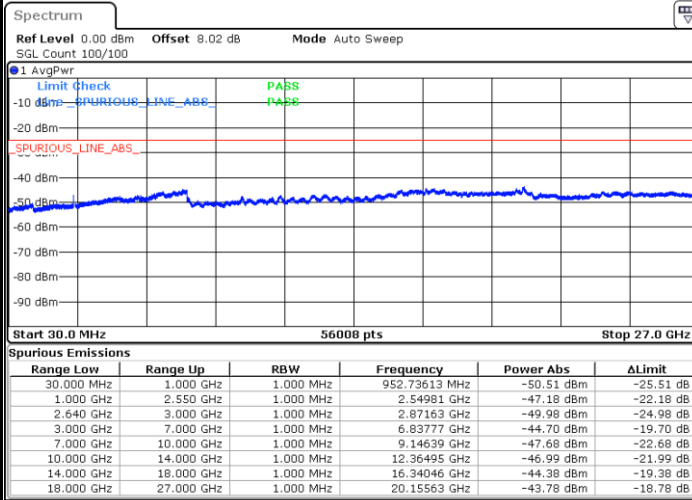


Date: 27 APR 2018 00:00:50



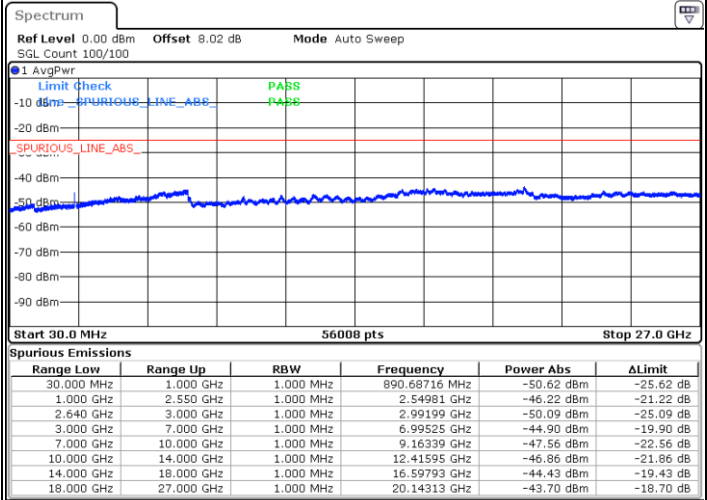
LTE Band 38 / 20MHz

Middle Channel / QPSK



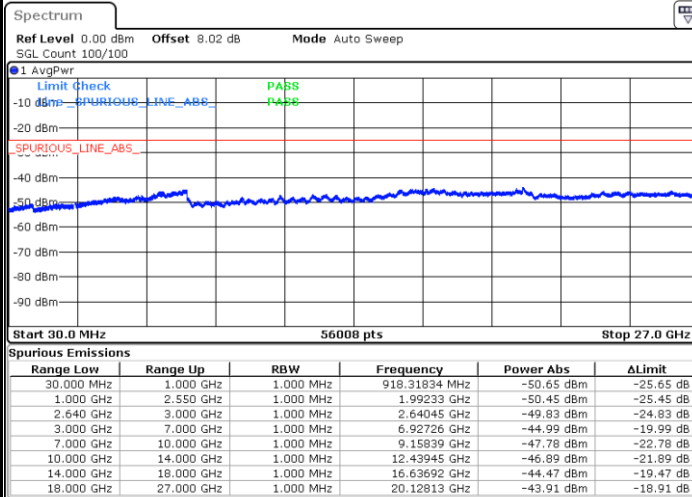
Date: 27 APR 2018 00:01:46

Middle Channel / 16QAM



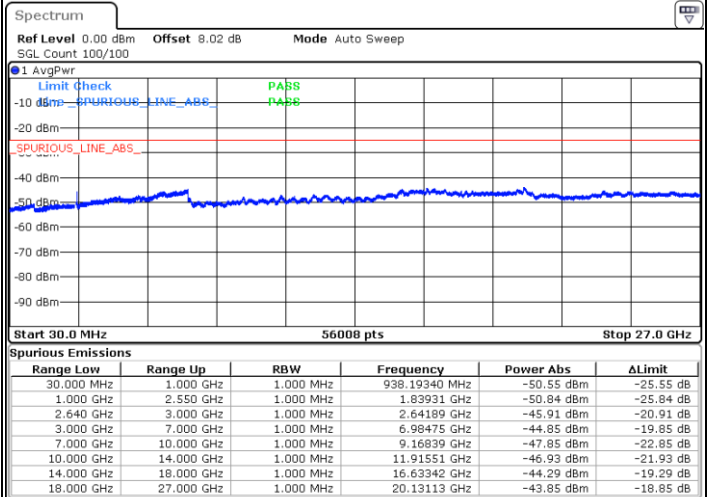
Date: 27 APR 2018 00:02:42

Highest Channel / QPSK



Date: 27 APR 2018 00:03:37

Highest Channel / 16QAM

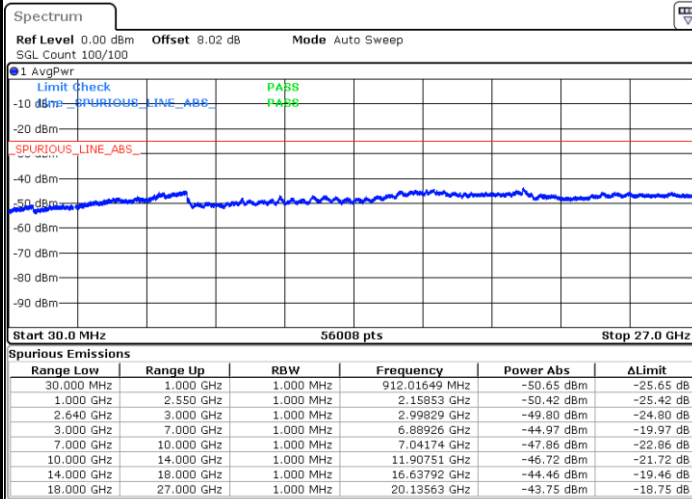


Date: 27 APR 2018 00:04:33



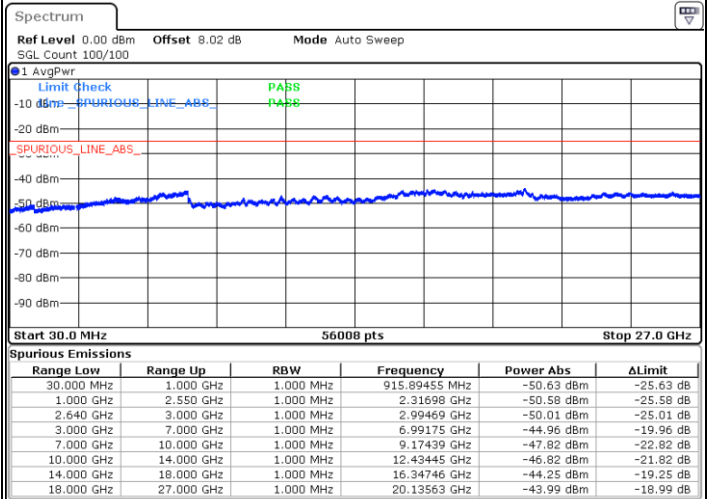
LTE Band 38 / 5MHz

Lowest Channel / 64QAM



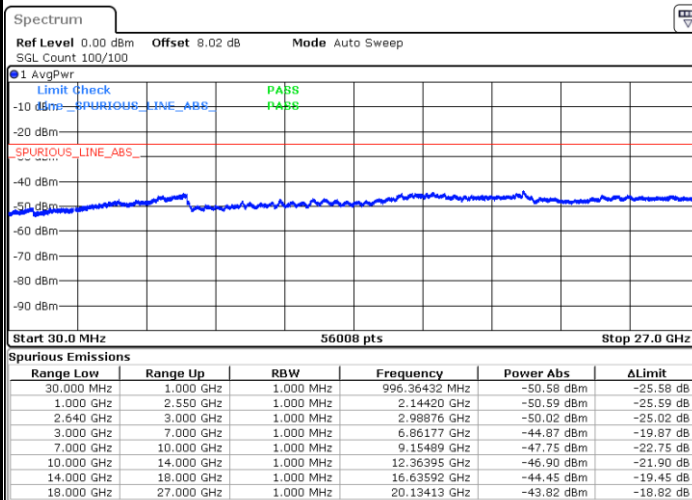
Date: 27 APR 2018 01:06:54

Middle Channel / 64QAM



Date: 27 APR 2018 01:07:50

Highest Channel / 64QAM

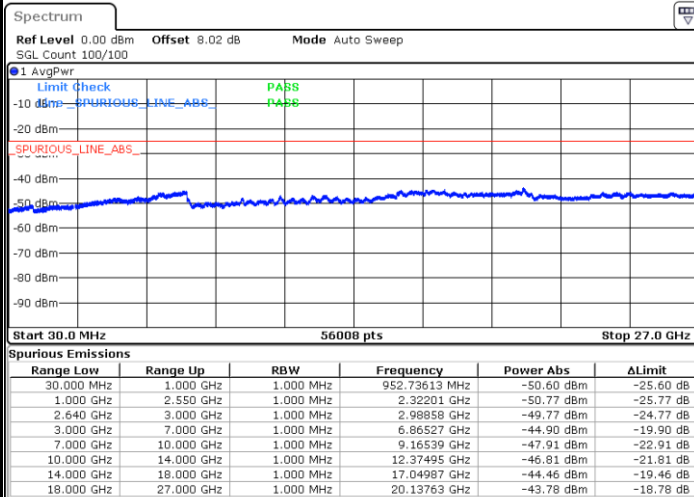


Date: 27 APR 2018 01:08:39



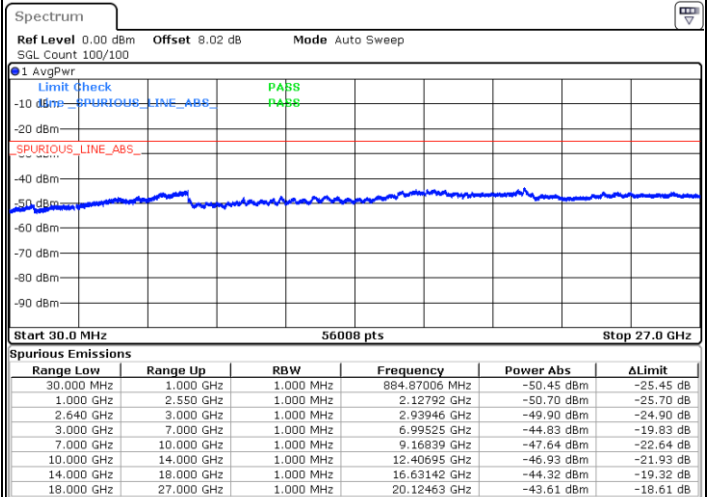
LTE Band 38 / 10MHz

Lowest Channel / 64QAM



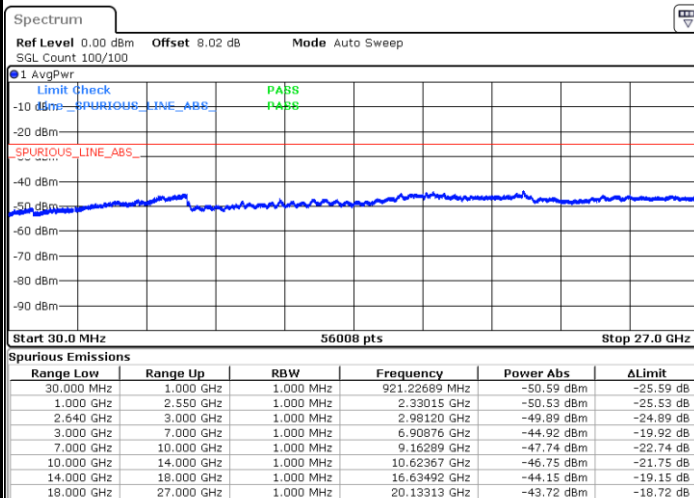
Date: 27 APR 2018 01:04:11

Middle Channel / 64QAM



Date: 27 APR 2018 01:04:59

Highest Channel / 64QAM

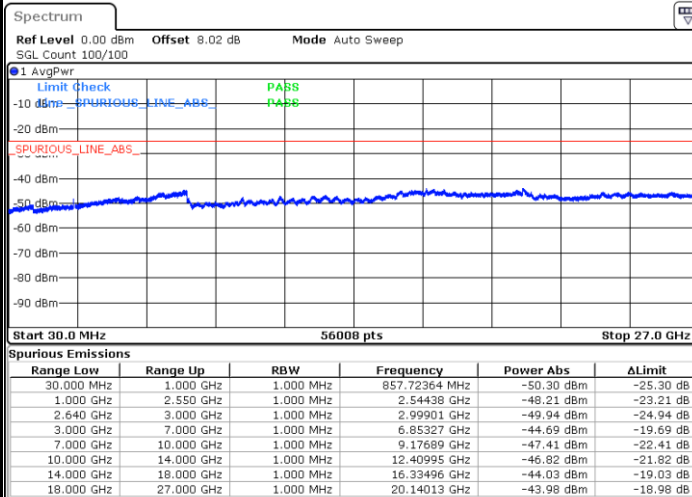


Date: 27 APR 2018 01:05:55



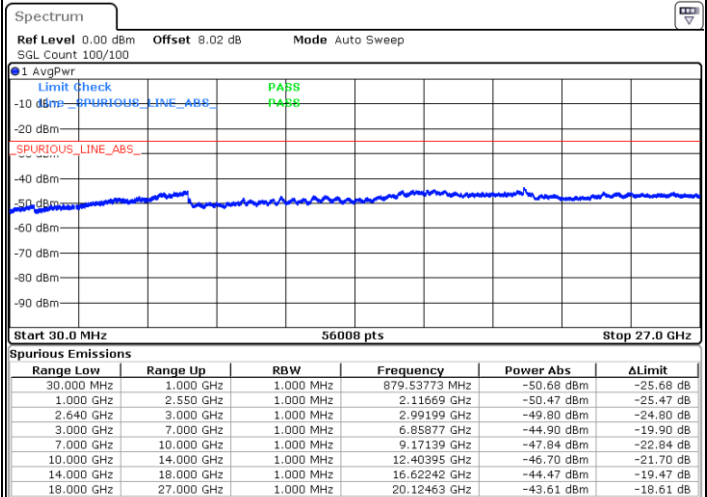
LTE Band 38 / 15MHz

Lowest Channel / 64QAM



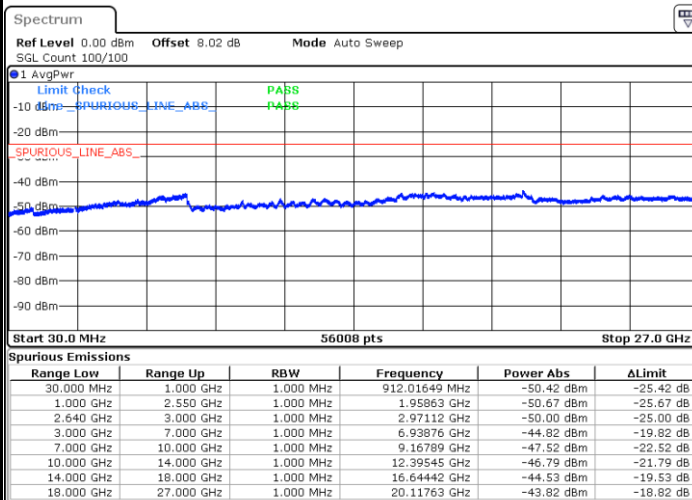
Date: 27 APR 2018 01:01:05

Middle Channel / 64QAM



Date: 27 APR 2018 01:01:58

Highest Channel / 64QAM

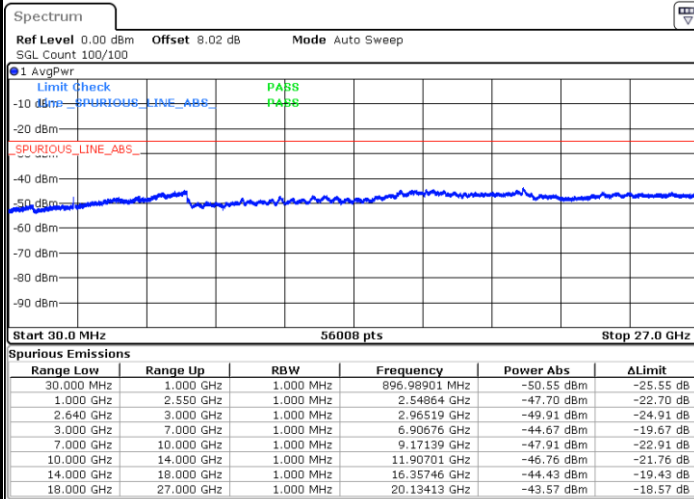


Date: 27 APR 2018 01:02:47



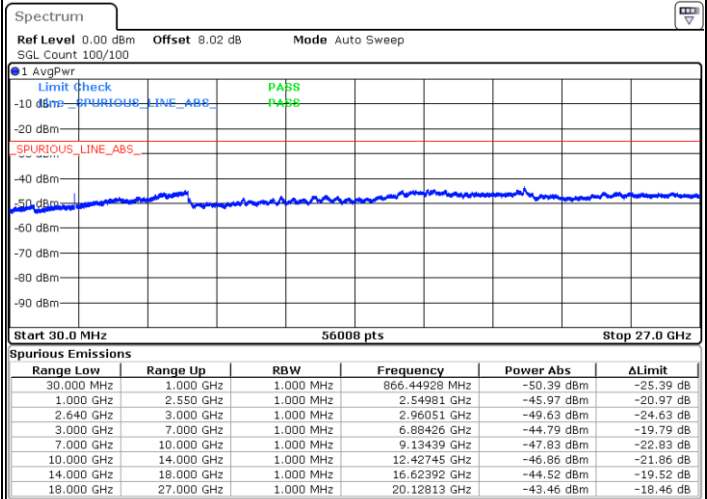
LTE Band 38 / 20MHz

Lowest Channel / 64QAM



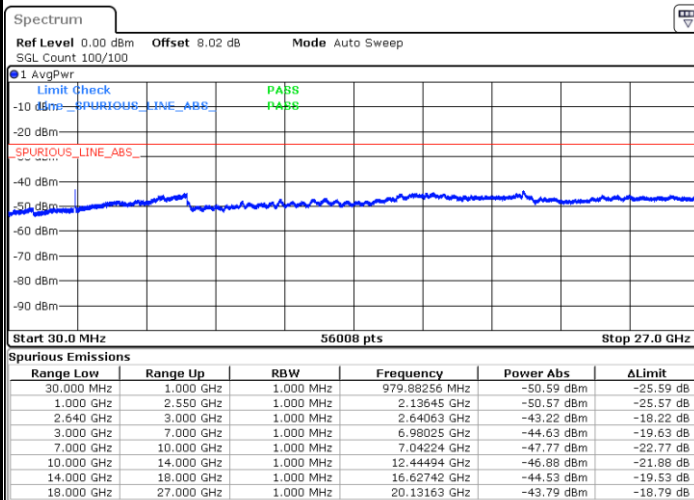
Date: 27 APR 2018 01:00:05

Middle Channel / 64QAM



Date: 27 APR 2018 00:59:13

Highest Channel / 64QAM



Date: 27 APR 2018 00:58:25

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0018	
20	Battery End Point	0.0023	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0041	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0007	

Note: Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0024	

Note:

1. Normal Voltage =3.85V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 2 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-57.11	-13	-44.11	-62.28	1.83	7.00	H
	5613	-47.44	-13	-34.44	-55.06	2.18	9.80	H
	7485	-52.00	-13	-39.00	-61.67	2.53	12.20	H
	3741	-56.10	-13	-43.10	-61.27	1.83	7.00	V
	5613	-48.28	-13	-35.28	-55.90	2.18	9.80	V
	7485	-54.09	-13	-41.09	-63.76	2.53	12.20	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447	-51.27	-13	-38.27	-56.41	1.81	6.95	H
	5169	-54.26	-13	-41.26	-61.33	2.23	9.30	H
	6894	-55.33	-13	-42.33	-63.61	2.60	10.88	H
	3447	-46.65	-13	-33.65	-51.79	1.81	6.95	V
	5169	-57.45	-13	-44.45	-64.52	2.23	9.30	V
	6894	-55.23	-13	-42.23	-63.51	2.6	10.88	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-48.48	-13	-35.48	-50.39	1.14	5.20	H
	2496	-44.72	-13	-31.72	-47.35	1.12	5.90	H
	3327	-64.04	-13	-51.04	-67.25	1.34	6.70	H
	1664	-53.60	-13	-40.60	-55.51	1.14	5.20	V
	2496	-50.63	-13	-37.63	-53.26	1.12	5.90	V
	3327	-60.81	-13	-47.81	-64.02	1.34	6.70	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 15MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5056	-61.15	-25	-36.15	-67.87	2.40	9.12	H
	7584	-42.94	-25	-17.94	-52.57	2.87	12.50	H
	10116	-57.40	-25	-32.40	-66.32	3.18	12.10	H
	12645	-52.29	-25	-27.29	-61.39	3.79	12.89	H
	5056	-63.05	-25	-38.05	-69.77	2.40	9.12	V
	7584	-54.37	-25	-29.37	-64.00	2.87	12.50	V
	10116	-57.95	-25	-32.95	-66.87	3.18	12.10	V
	12645	-56.93	-25	-31.93	-65.97	3.79	12.83	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 38 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5172	-60.67	-25	-35.67	-67.50	2.46	9.29	H
	7760	-47.82	-25	-22.82	-57.01	3.01	12.20	H
	10341	-54.68	-25	-29.68	-63.41	3.52	12.25	H
	12930	-47.32	-25	-22.32	-56.51	3.82	13.01	H
	5172	-58.90	-25	-33.90	-65.73	2.46	9.29	V
	7760	-42.23	-25	-17.23	-51.42	3.01	12.20	V
	10341	-58.08	-25	-33.08	-66.81	3.52	12.25	V
	12933	-52.54	-25	-27.54	-61.73	3.82	13.01	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.