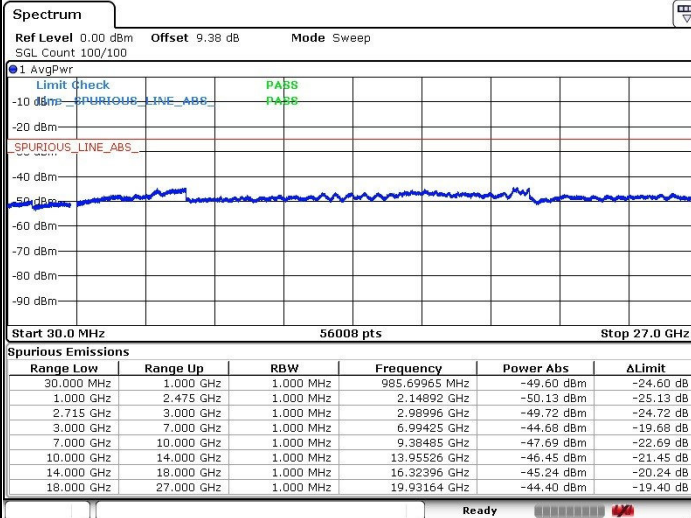




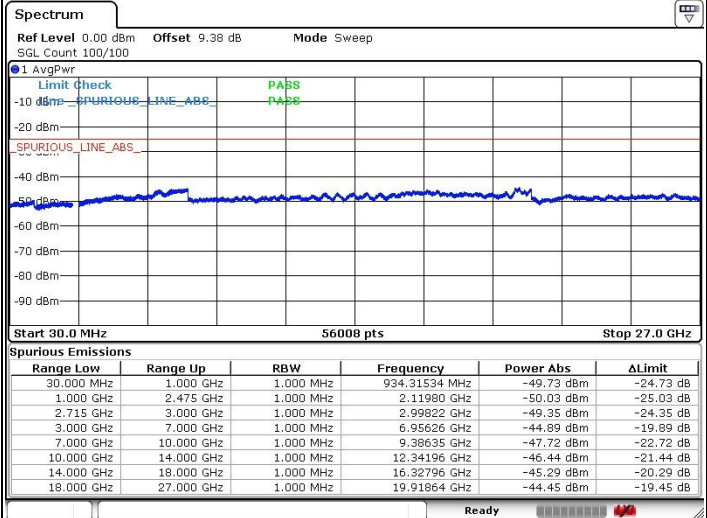
LTE Band 41 / 20MHz+10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



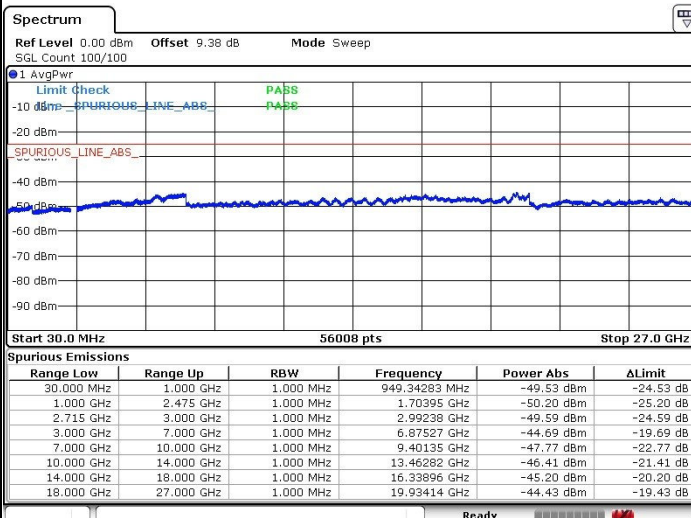
Date: 17.MAR.2018 11:35:28



Date: 17.MAR.2018 11:37:06

Lowest Channel / 64QAM

N/A

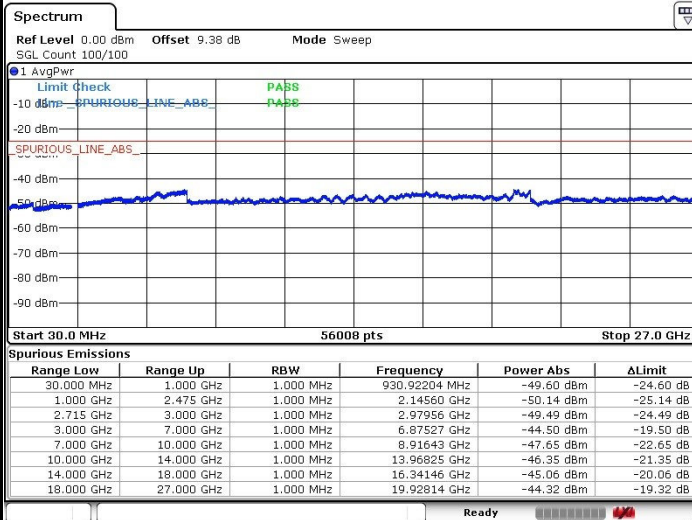


Date: 17.MAR.2018 11:38:24



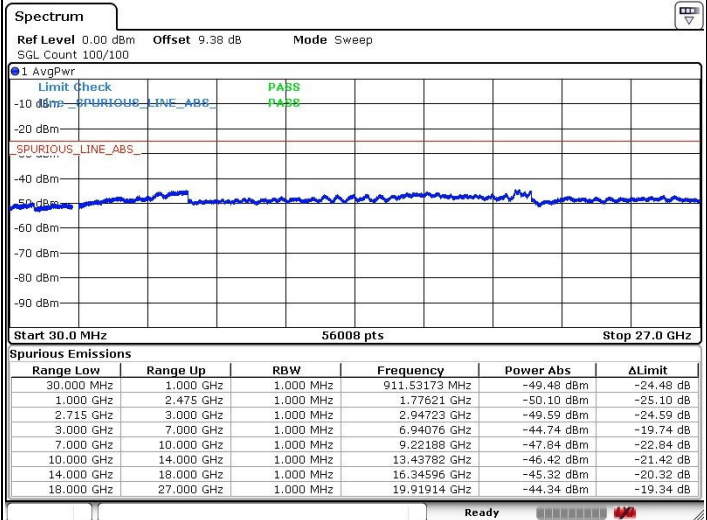
LTE Band 41 / 20MHz+10MHz

Middle Channel / QPSK



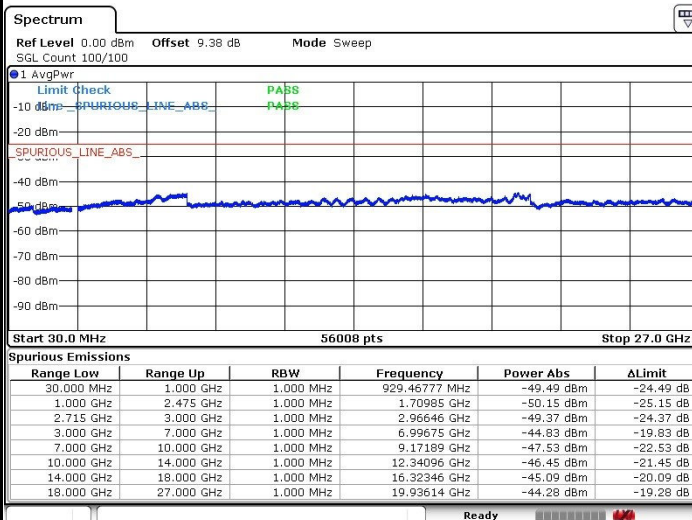
Date: 17.MAR.2018 11:41:41

Middle Channel / 16QAM



Date: 17.MAR.2018 11:42:47

Middle Channel / 64QAM



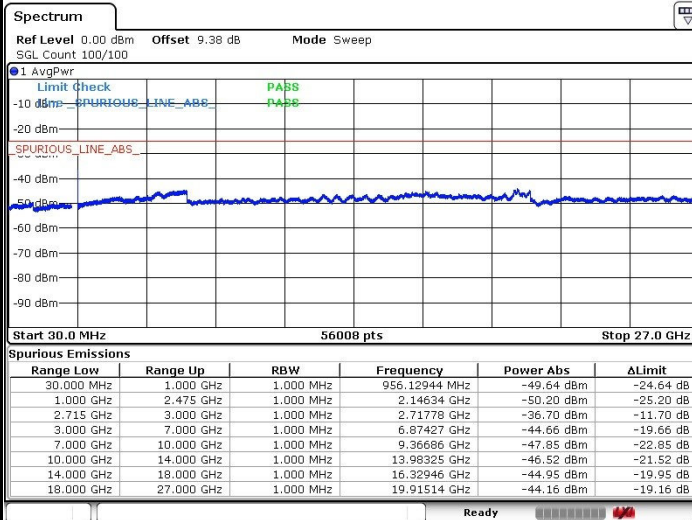
Date: 17.MAR.2018 11:44:01

N/A



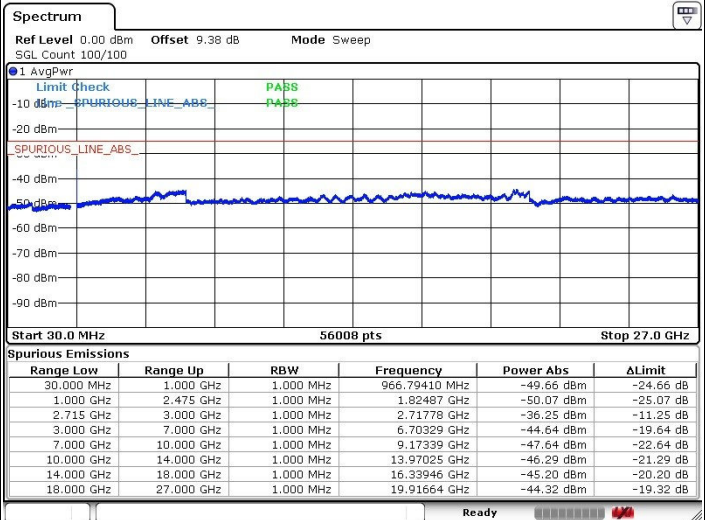
LTE Band 41 / 20MHz+10MHz

Highest Channel / QPSK



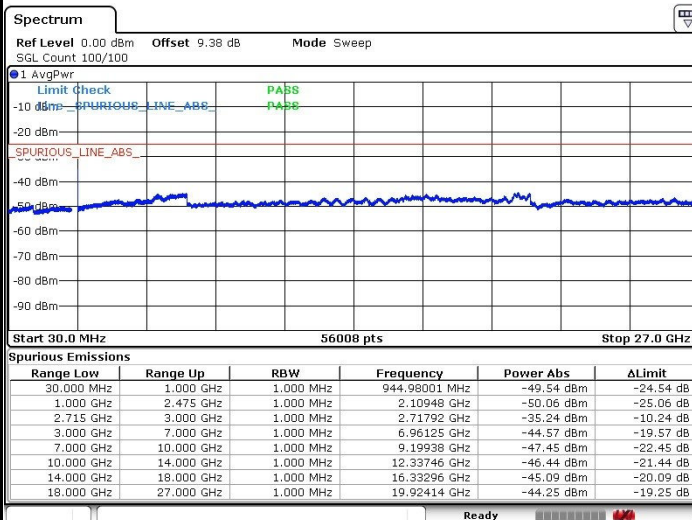
Date: 17.MAR.2018 11:48:08

Highest Channel / 16QAM



Date: 17.MAR.2018 11:49:26

Highest Channel / 64QAM



Date: 17.MAR.2018 11:50:33

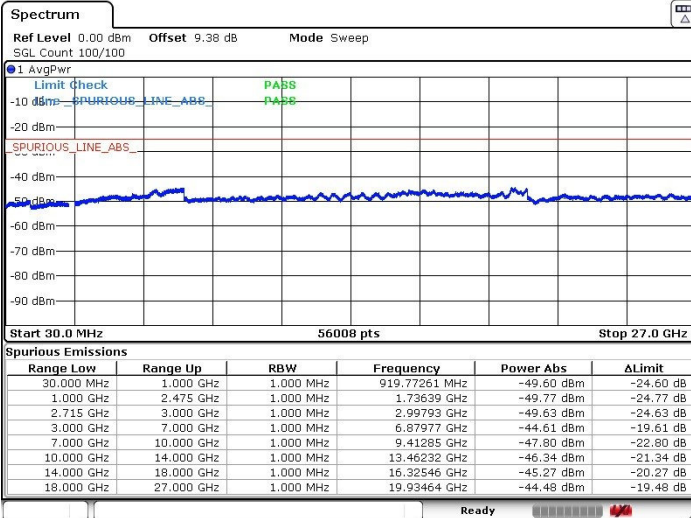
N/A



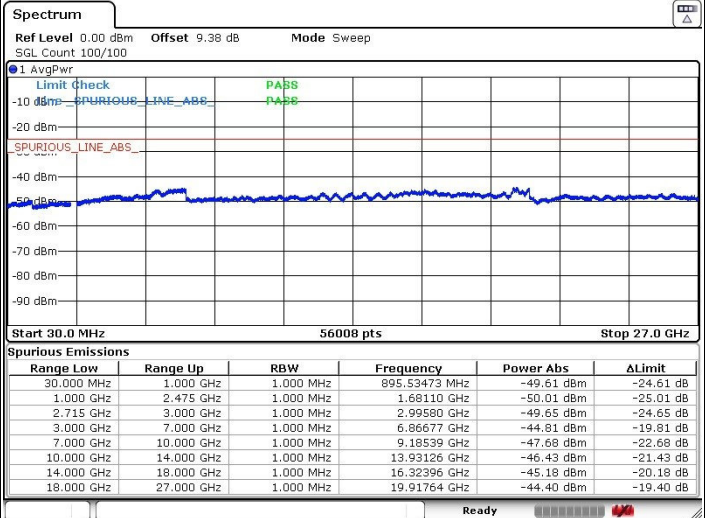
LTE Band 41 / 20MHz+15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



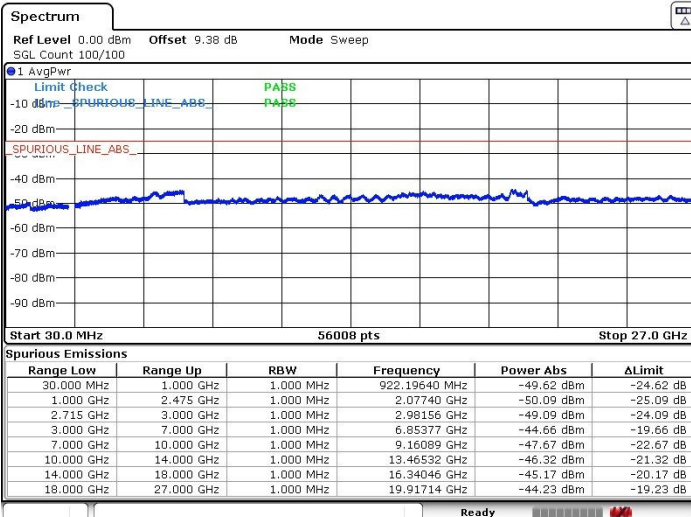
Date: 17.MAR.2018 01:37:10



Date: 17.MAR.2018 01:38:41

Lowest Channel / 64QAM

N/A

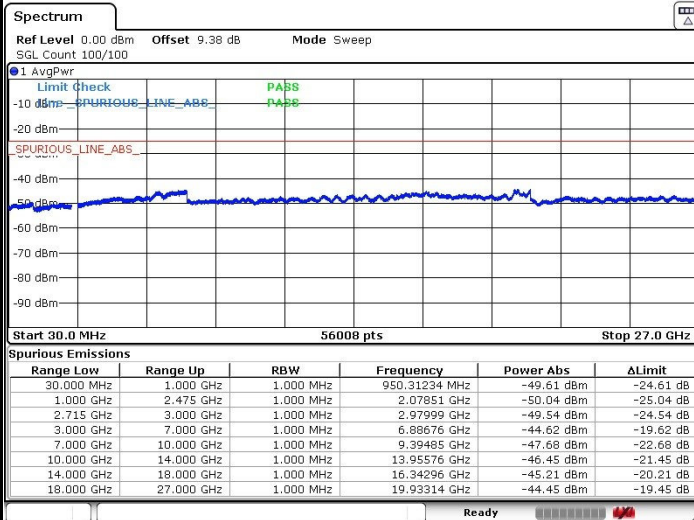


Date: 17.MAR.2018 01:39:57



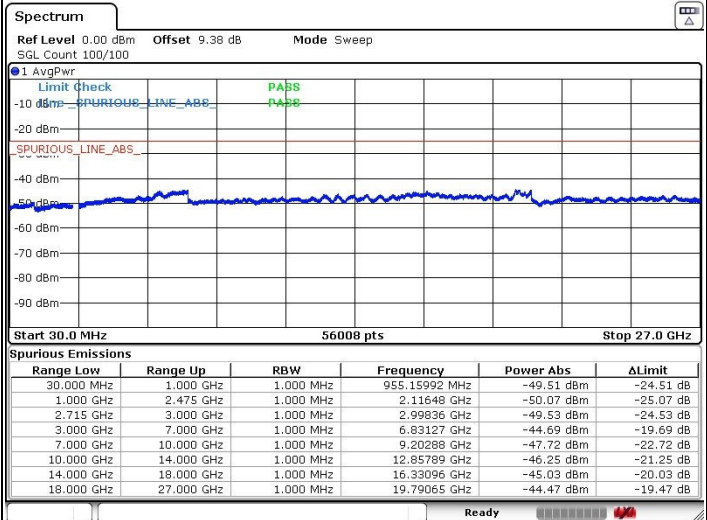
LTE Band 41 / 20MHz+15MHz

Middle Channel / QPSK



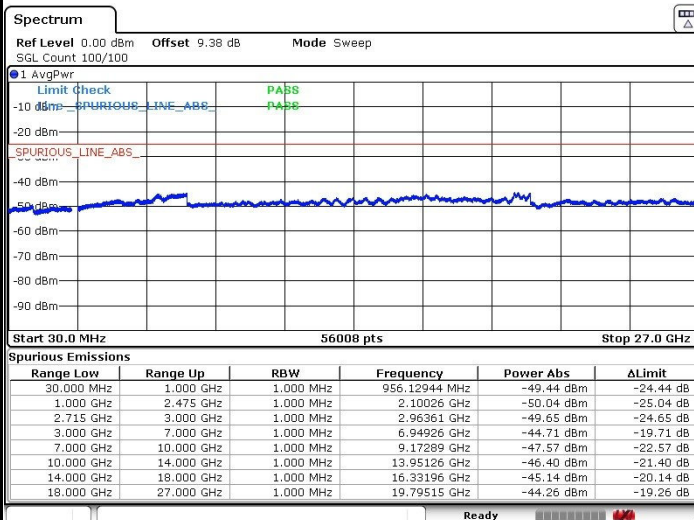
Date: 17.MAR.2018 01:44:05

Middle Channel / 16QAM



Date: 17.MAR.2018 01:42:47

Middle Channel / 64QAM



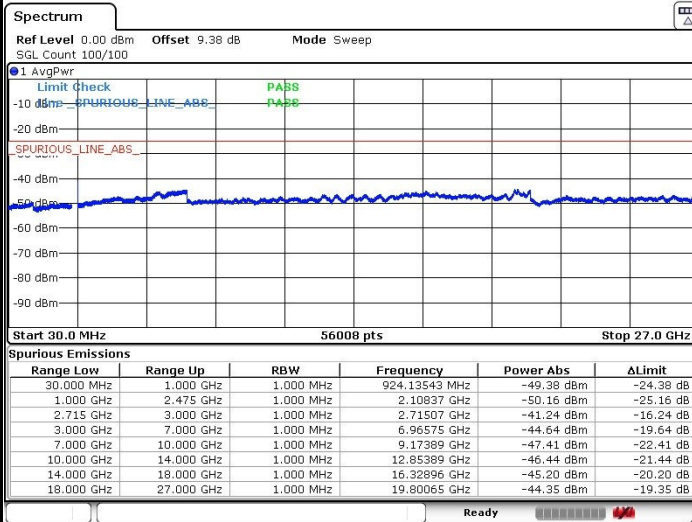
Date: 17.MAR.2018 01:41:41

N/A



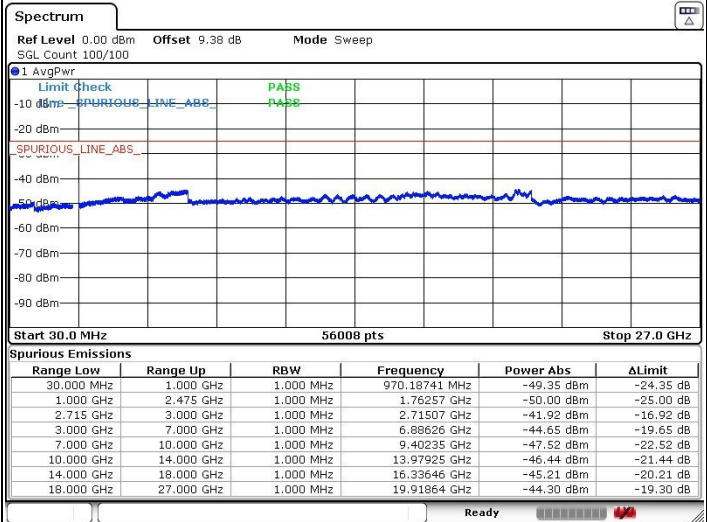
LTE Band 41 / 20MHz+15MHz

Highest Channel / QPSK



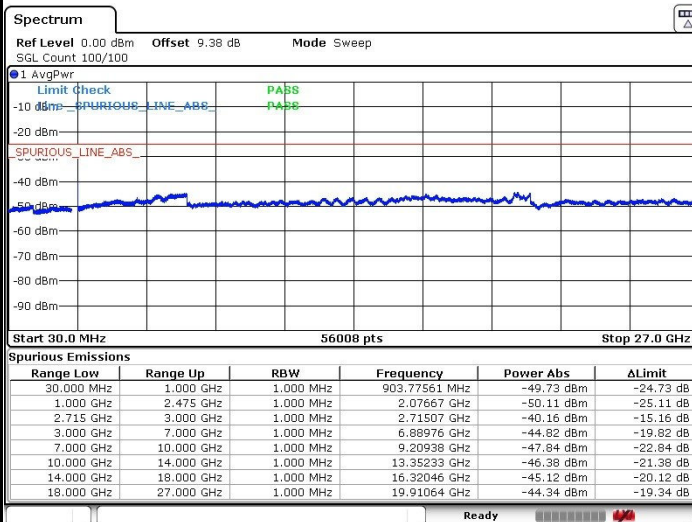
Date: 17.MAR 2018 01:47:03

Highest Channel / 16QAM



Date: 17.MAR 2018 01:48:12

Highest Channel / 64QAM



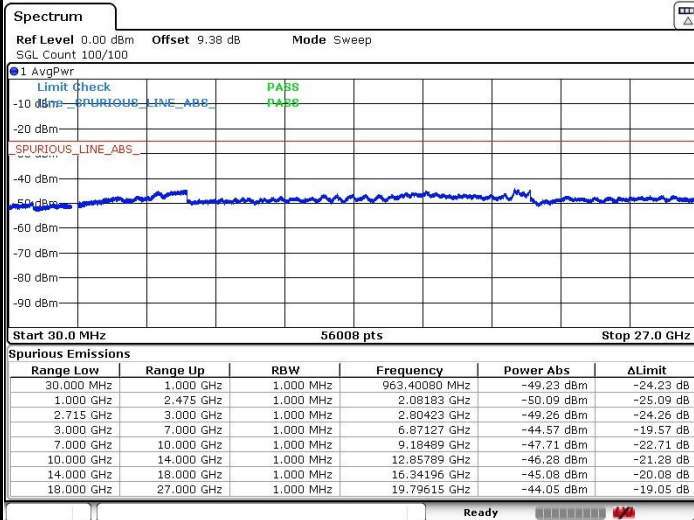
Date: 17.MAR 2018 01:49:16

N/A



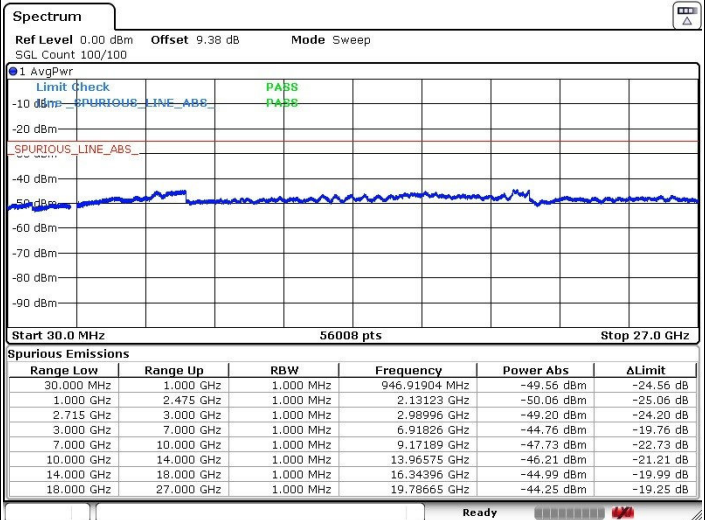
LTE Band 41 / 20MHz+20MHz

Lowest Channel / QPSK



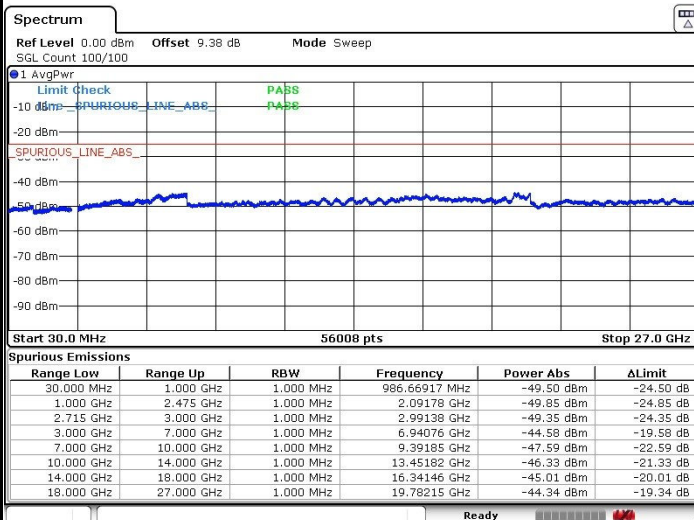
Date: 17.MAR.2018 01:24:35

Lowest Channel / 16QAM



Date: 17.MAR.2018 01:23:28

Lowest Channel / 64QAM



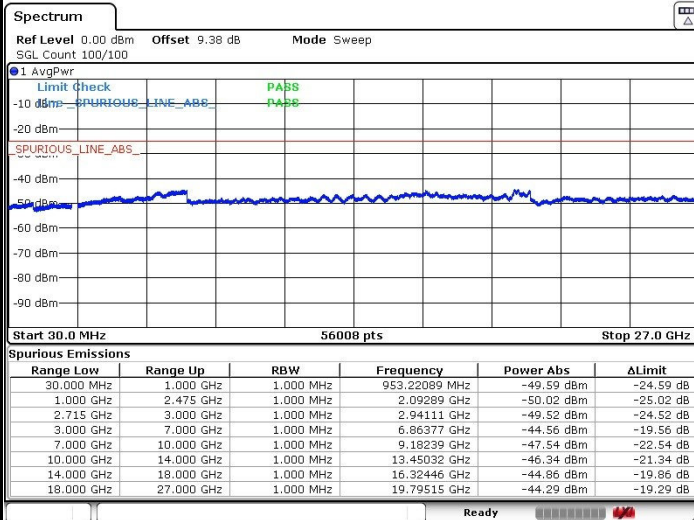
Date: 17.MAR.2018 01:21:22

N/A



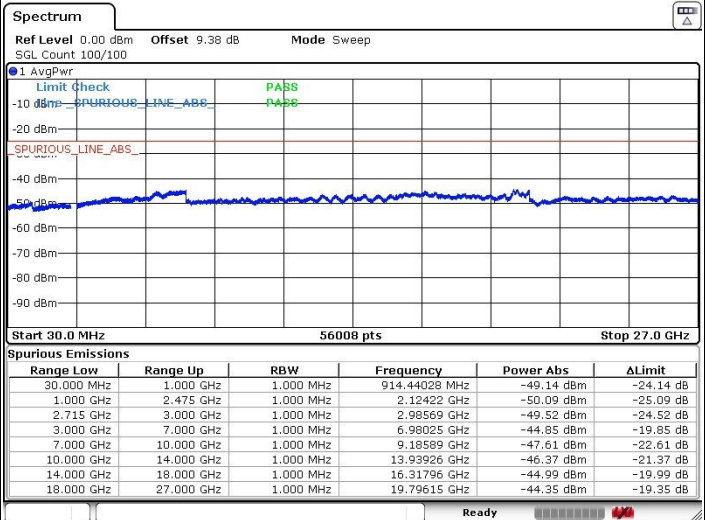
LTE Band 41 / 20MHz+20MHz

MiddleChannel / QPSK



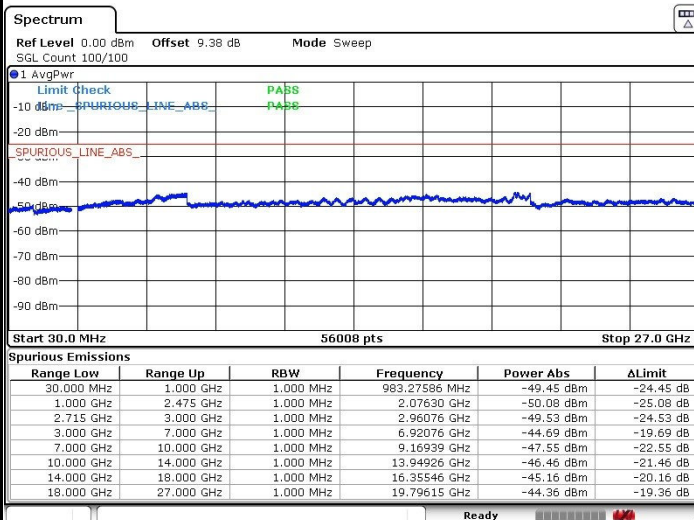
Date: 17.MAR 2018 01:26:54

Middle Channel / 16QAM



Date: 17.MAR 2018 01:28:21

Middle Channel / 64QAM



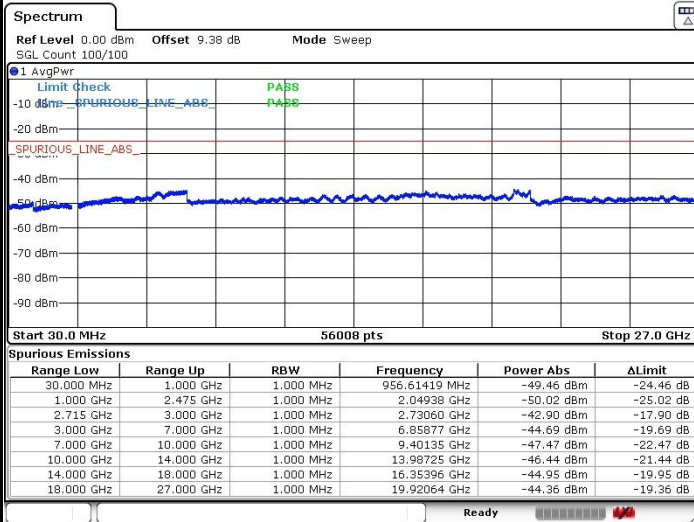
Date: 17.MAR 2018 01:29:29

N/A



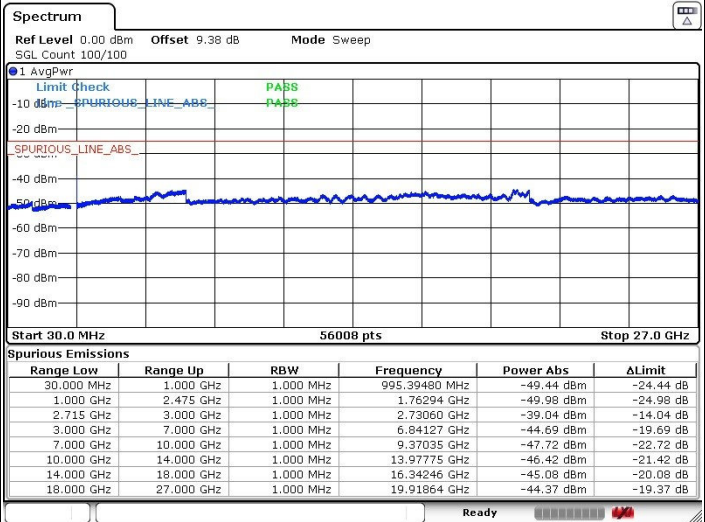
LTE Band 41 / 20MHz+20MHz

Highest Channel / QPSK



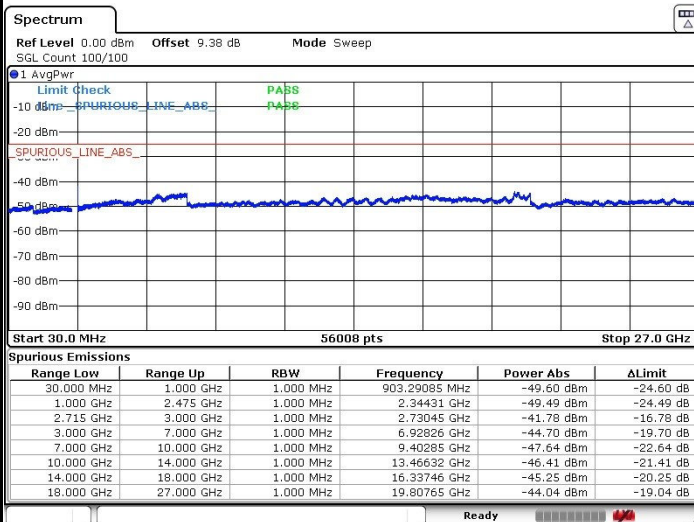
Date: 17.MAR.2018 01:34:27

Highest Channel / 16QAM



Date: 17.MAR.2018 01:33:20

Highest Channel / 64QAM



Date: 17.MAR.2018 01:32:10

N/A

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	0.0006	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 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	0.0020	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 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	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

Note: Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 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	0.0023	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0089	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0105	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0082	
-30	Normal Voltage	0.0073	
20	Maximum Voltage	0.0083	
20	Normal Voltage	0.0020	
20	Battery End Point	0.0112	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0090	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0061	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0074	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0072	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0052	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0062	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0045	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0022	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.85V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0096	PASS
40	Normal Voltage	0.0086	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0093	
0	Normal Voltage	0.0079	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0080	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0084	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 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	0.0009	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.7 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 25 / 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	-53.22	-13	-40.22	-58.39	1.83	7.00	H
	5613	-46.54	-13	-33.54	-54.16	2.18	9.80	H
	7485	-53.66	-13	-40.66	-63.33	2.53	12.20	H
	3741	-52.04	-13	-39.04	-57.21	1.83	7.00	V
	5613	-47.88	-13	-34.88	-55.50	2.18	9.80	V
	7485	-54.56	-13	-41.56	-64.23	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	-61.48	-13	-48.48	-66.62	1.81	6.95	H
	5172	-60.30	-13	-47.30	-67.37	2.23	9.30	H
	6894	-56.53	-13	-43.53	-64.81	2.60	10.88	H
	3447	-63.30	-13	-50.30	-68.44	1.81	6.95	V
	5172	-60.82	-13	-47.82	-67.89	2.23	9.30	V
	6894	-57.39	-13	-44.39	-65.67	2.6	10.88	V

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

LTE Band 7 / 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	5052	-60.27	-25	-35.27	-66.99	2.40	9.12	H
	7580	-58.78	-25	-33.78	-68.41	2.87	12.50	H
	10107	-59.83	-25	-34.83	-68.75	3.18	12.10	H
	5052	-61.63	-25	-36.63	-68.35	2.40	9.12	V
	7576	-58.35	-25	-33.35	-67.98	2.87	12.50	V
	10107	-56.93	-25	-31.93	-65.85	3.18	12.10	V

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



LTE Band 12 / 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	1406	-58.89	-13	-45.89	-60.26	1.167	4.69	H
	2110	-61.99	-13	-48.99	-64.59	1.446	6.20	H
	2812	-63.72	-13	-50.72	-67.28	1.694	7.40	H
	1406	-58.71	-13	-45.71	-60.08	1.167	4.69	V
	2110	-60.73	-13	-47.73	-63.33	1.446	6.20	V
	2812	-64.03	-13	-51.03	-67.59	1.694	7.40	V

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

LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0								
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	1560	-58.61	-40	-18.61	-62.46	1.385	5.23	H
	2340	-60.91	-13	-47.91	-62.90	1.88	6.02	H
	3120	-63.62	-13	-50.62	-65.99	2.38	6.90	H
	1560	-54.86	-40	-14.86	-58.71	1.385	5.23	V
	2340	-63.90	-13	-50.90	-65.89	1.88	6.02	V
	3120	-63.97	-13	-50.97	-66.34	2.38	6.90	V

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

LTE Band 26 / 15MHz / 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	1660	-41.01	-13	-28.01	-42.92	1.14	5.20	H
	2490	-57.98	-13	-44.98	-60.61	1.12	5.90	H
	3318	-64.76	-13	-51.76	-67.97	1.34	6.70	H
	1660	-42.32	-13	-29.32	-44.23	1.14	5.20	V
	2490	-60.36	-13	-47.36	-62.99	1.12	5.90	V
	3318	-65.47	-13	-52.47	-68.68	1.34	6.70	V

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



LTE Band 41 / 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	5168	-61.72	-25	-36.72	-68.55	2.46	9.29	H
	7752	-56.80	-25	-31.80	-65.99	3.01	12.20	H
	10332	-60.60	-25	-35.60	-69.33	3.52	12.25	H
	5168	-59.88	-25	-34.88	-66.71	2.46	9.29	V
	7752	-56.10	-25	-31.10	-65.29	3.01	12.20	V
	10332	-54.04	-25	-29.04	-62.77	3.52	12.25	V

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



For CA

LTE Band 7 CA / 20M+20M / 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	5032	-58.60	-25	-33.60	-65.32	2.40	9.12	H
	7548	-52.52	-25	-27.52	-62.15	2.87	12.50	H
	10062	-56.18	-25	-31.18	-65.10	3.18	12.10	H
	5032	-61.80	-25	-36.80	-68.52	2.40	9.12	V
	7548	-56.66	-25	-31.66	-66.29	2.87	12.50	V
	10062	-54.71	-25	-29.71	-63.63	3.18	12.10	V

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

LTE Band 38 CA / 20M+20M / 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	5152	-64.15	-25	-39.15	-70.98	2.46	9.29	H
	7728	-54.04	-25	-29.04	-63.23	3.01	12.20	H
	10305	-51.18	-25	-26.18	-59.91	3.52	12.25	H
	5152	-63.11	-25	-38.11	-69.94	2.46	9.29	V
	7728	-50.57	-25	-25.57	-59.76	3.01	12.20	V
	10305	-56.59	-25	-31.59	-65.32	3.52	12.25	V

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

LTE Band 41 CA / 20M+20M / 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	5148	-59.76	-25	-34.76	-66.59	2.46	9.29	H
	7724	-58.11	-25	-33.11	-67.30	3.01	12.20	H
	10296	-57.00	-25	-32.00	-65.73	3.52	12.25	H
	5148	-61.36	-25	-36.36	-68.19	2.46	9.29	V
	7724	-53.58	-25	-28.58	-62.77	3.01	12.20	V
	10296	-53.22	-25	-28.22	-61.95	3.52	12.25	V

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