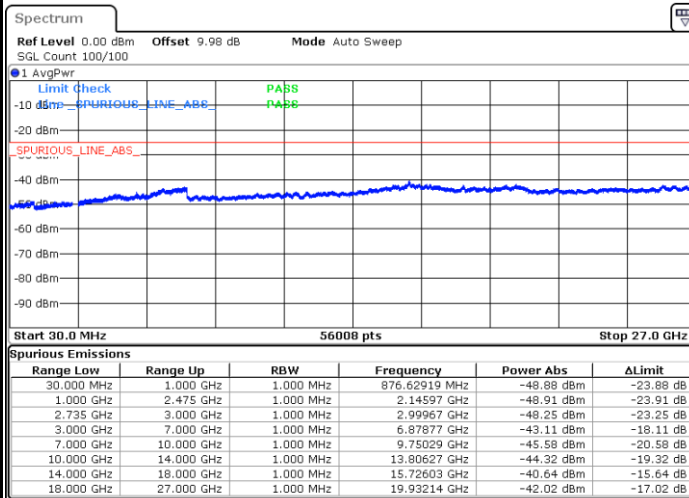




Conducted Spurious Emission

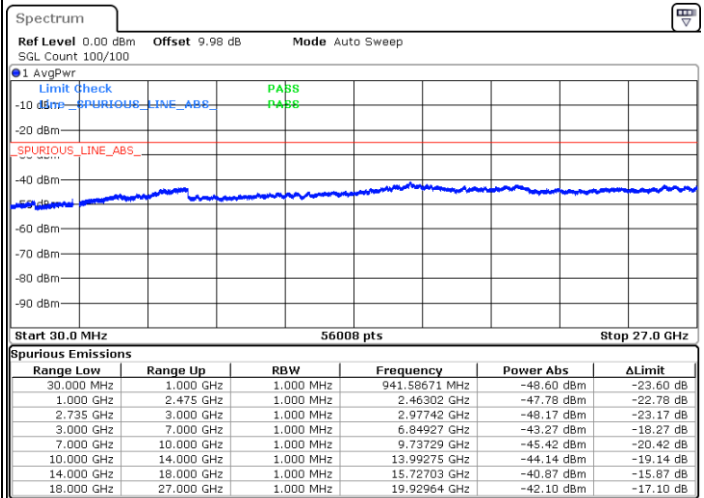
LTE Band 41C / 5MHz+20MHz

Lowest Channel / QPSK



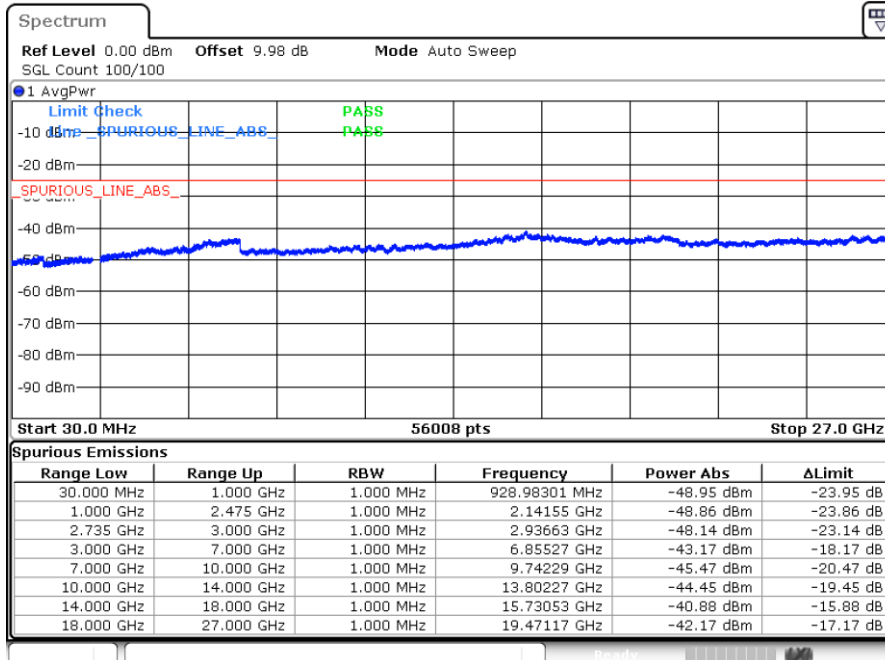
Date: 7.DEC.2022 17:51:43

Middle Channel / QPSK



Date: 7.DEC.2022 18:08:07

Highest Channel / QPSK

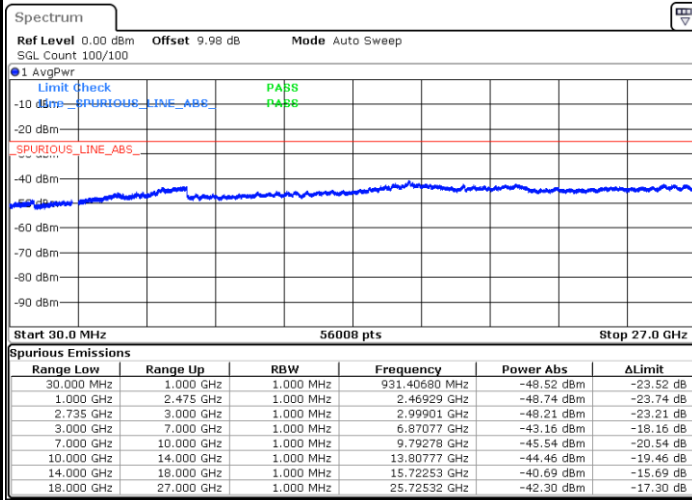


Date: 7.DEC.2022 18:09:45



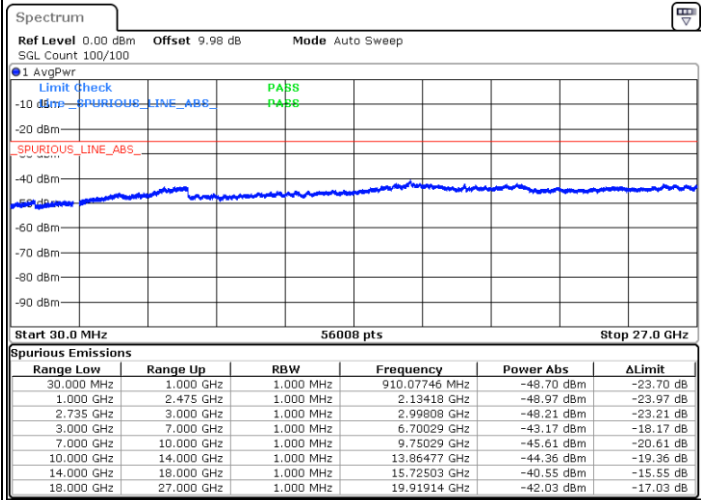
LTE Band 41C / 10MHz+15MHz

Lowest Channel / QPSK



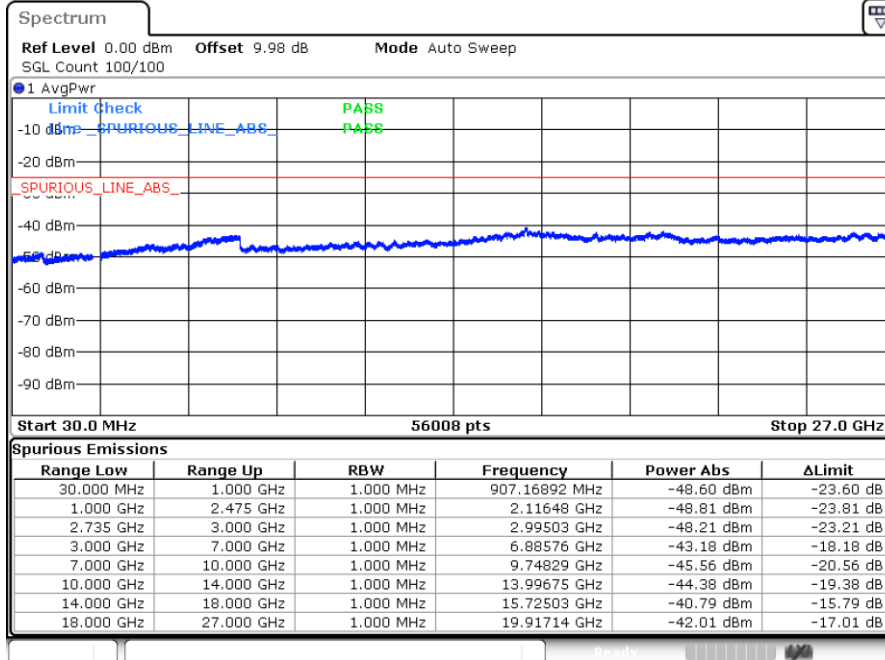
Date: 7.DEC.2022 18:36:34

Middle Channel / QPSK



Date: 7.DEC.2022 18:56:55

Highest Channel / QPSK



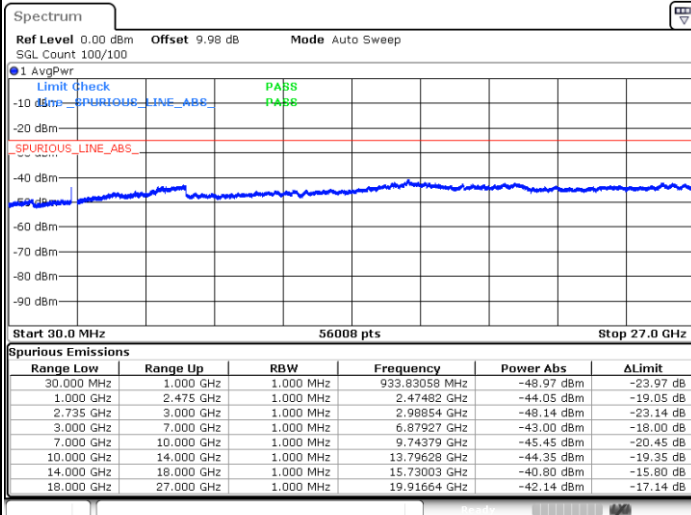
Date: 7.DEC.2022 18:58:34



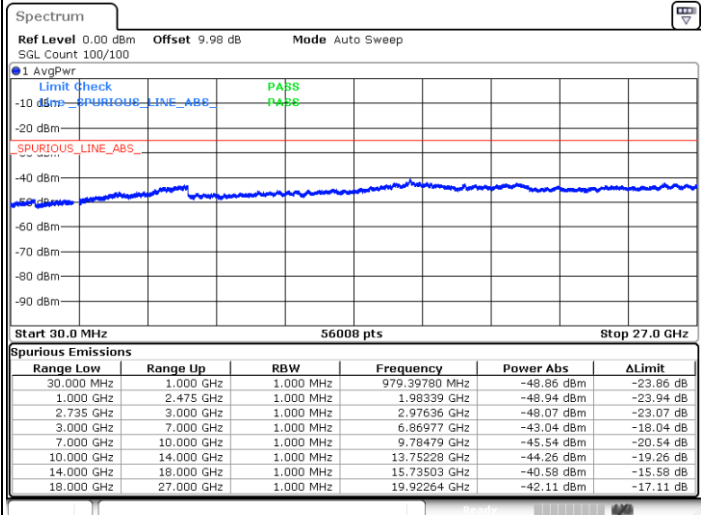
LTE Band 41C / 10MHz+20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

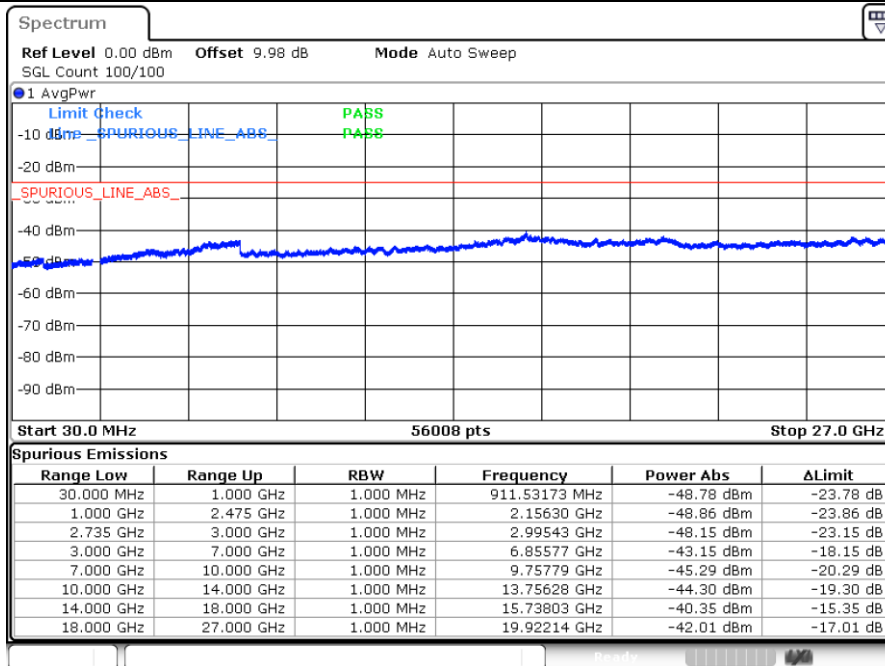


Date: 7.DEC.2022 19:16:45



Date: 7.DEC.2022 19:43:33

Highest Channel / QPSK

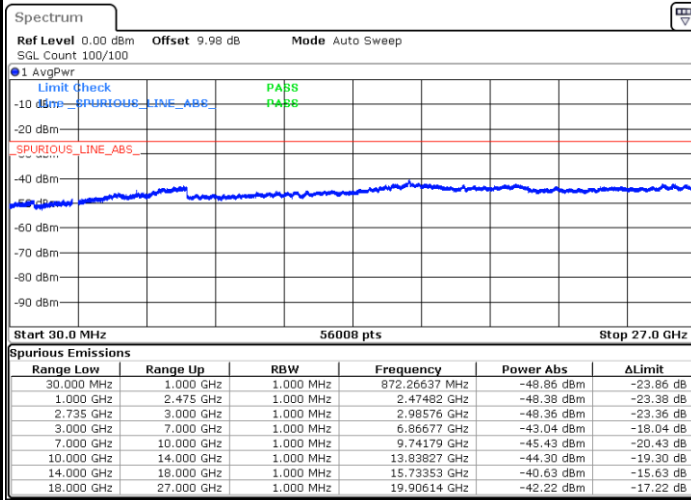


Date: 7.DEC.2022 19:45:10



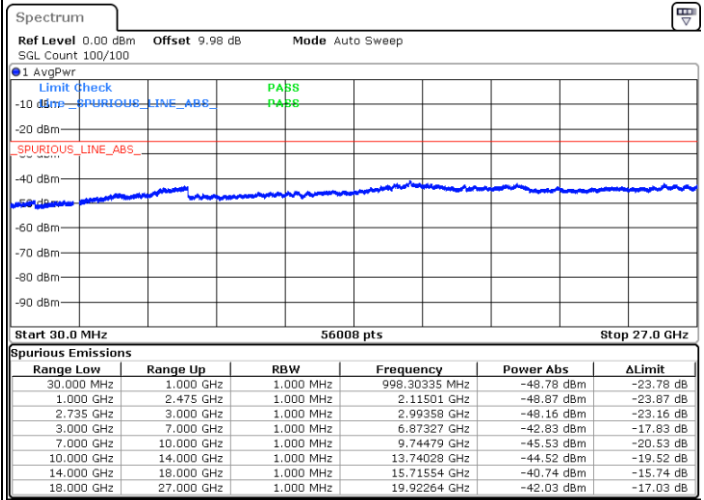
LTE Band 41C / 15MHz+10MHz

Lowest Channel / QPSK



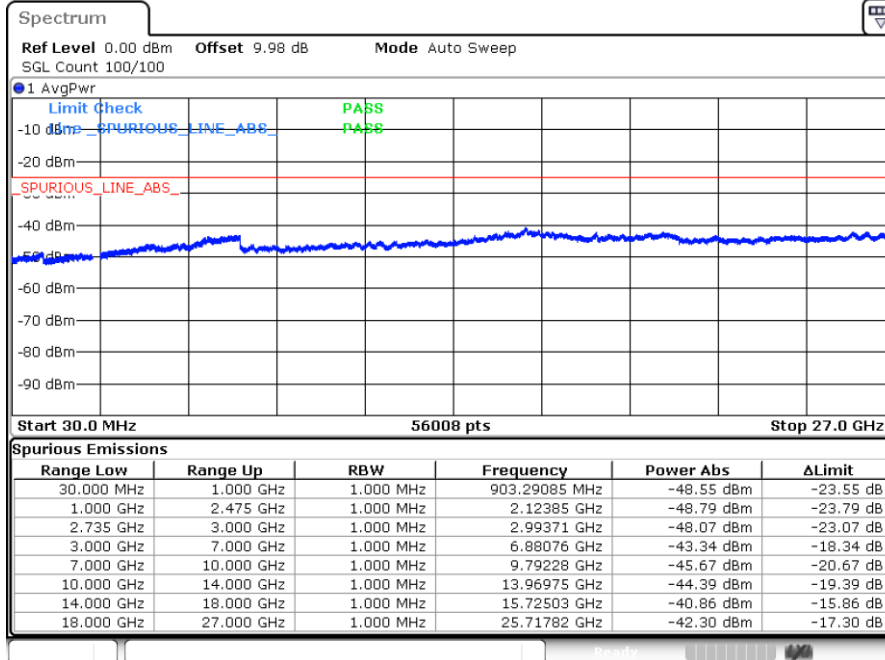
Date: 7.DEC.2022 20:02:48

Middle Channel / QPSK



Date: 7.DEC.2022 20:19:26

Highest Channel / QPSK

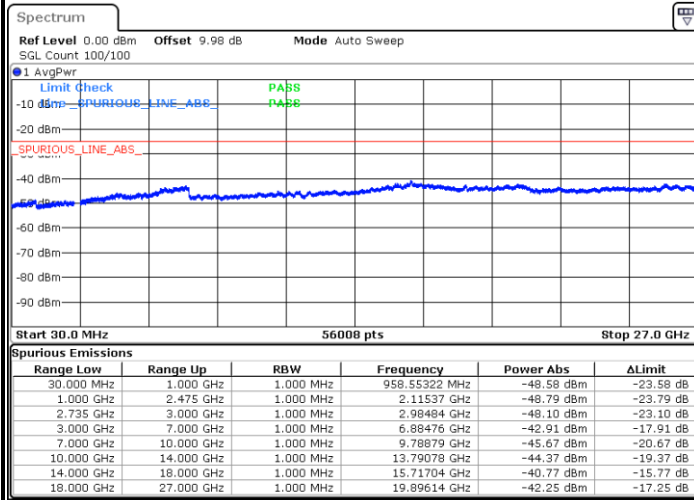


Date: 7.DEC.2022 20:21:04



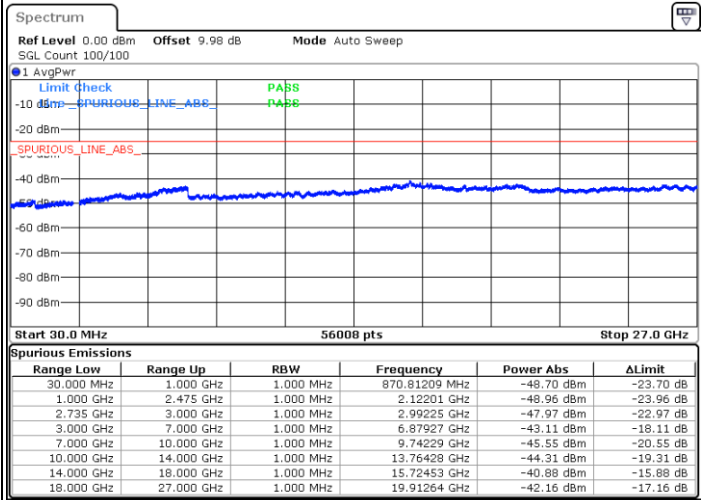
LTE Band 41C / 15MHz+15MHz

Lowest Channel / QPSK



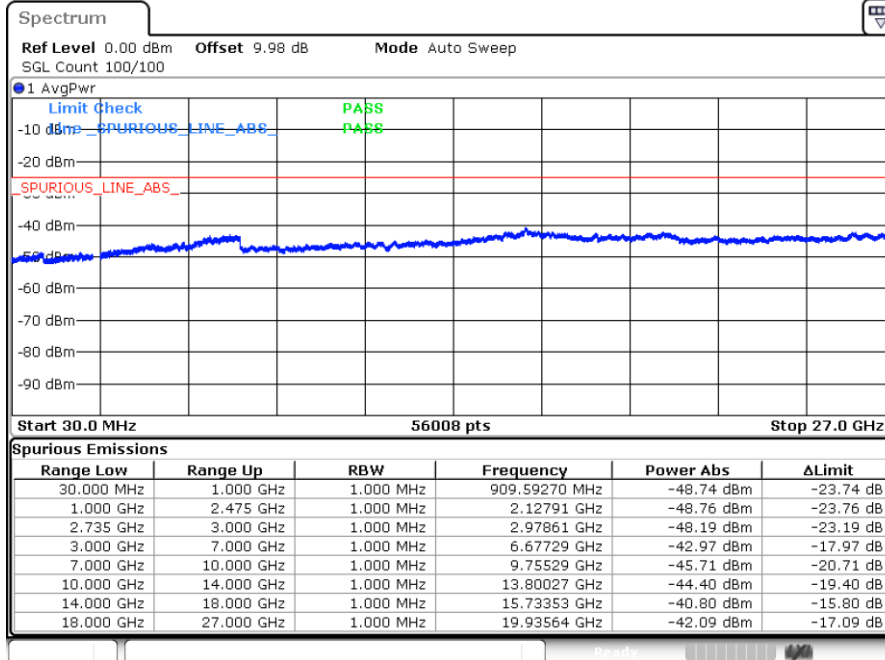
Date: 7.DEC.2022 20:37:55

Middle Channel / QPSK



Date: 7.DEC.2022 20:54:44

Highest Channel / QPSK

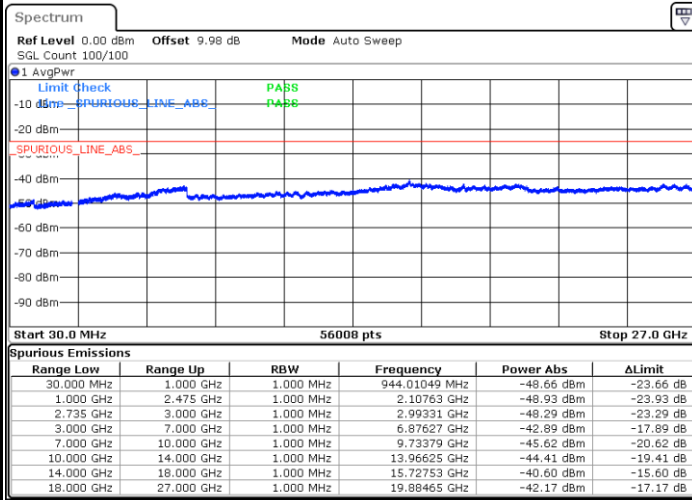


Date: 7.DEC.2022 20:56:22



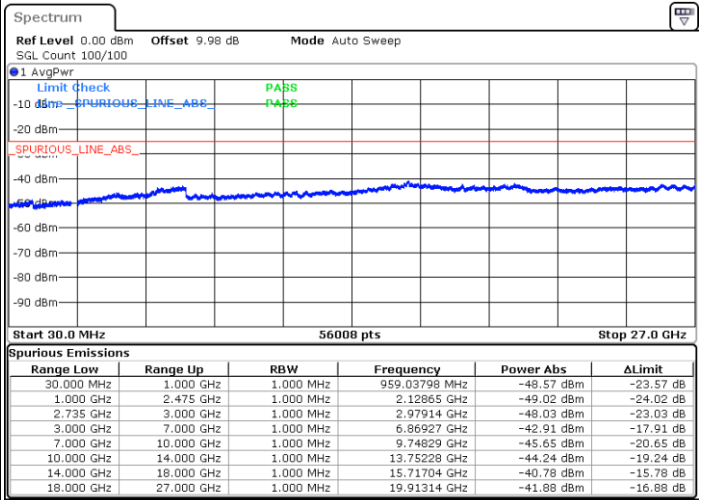
LTE Band 41C / 15MHz+20MHz

Lowest Channel / QPSK



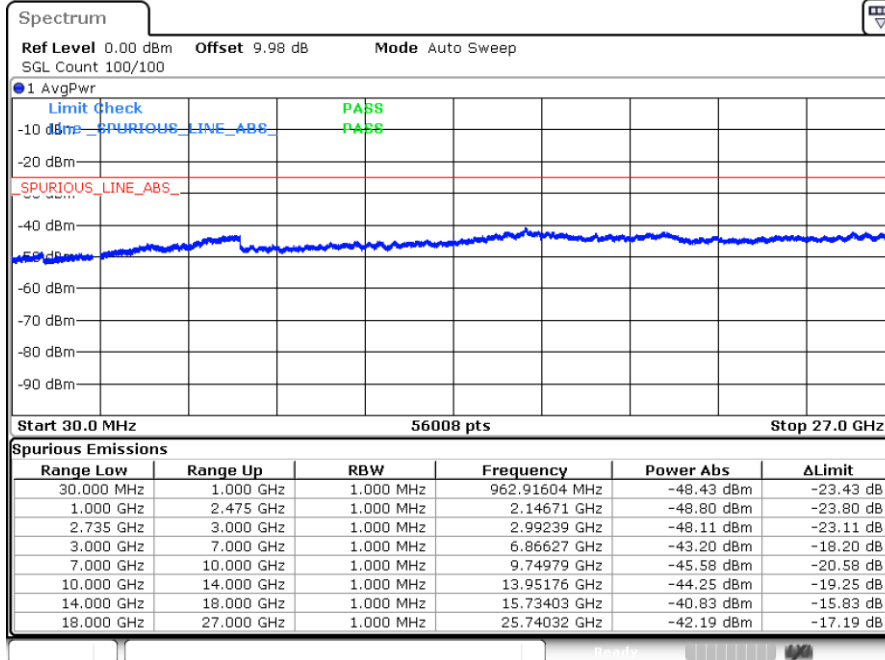
Date: 7.DEC.2022 21:16:30

Middle Channel / QPSK



Date: 7.DEC.2022 21:32:45

Highest Channel / QPSK

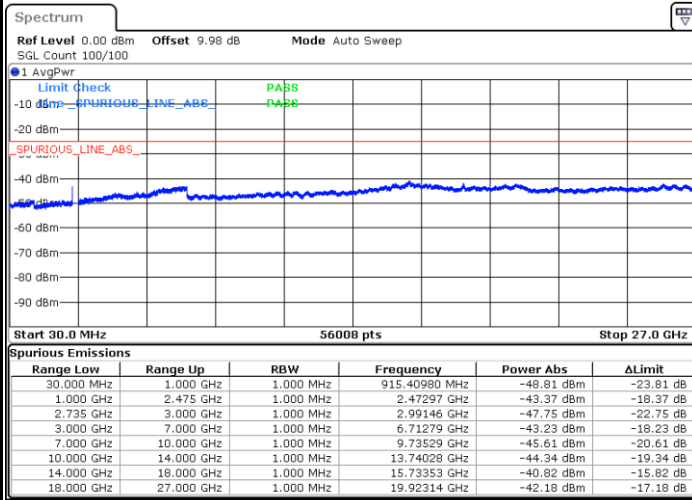


Date: 7.DEC.2022 21:34:23



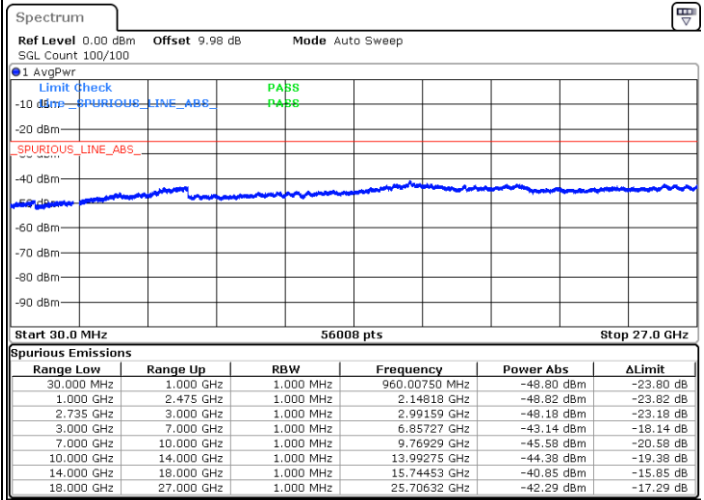
LTE Band 41C / 20MHz+5MHz

Lowest Channel / QPSK



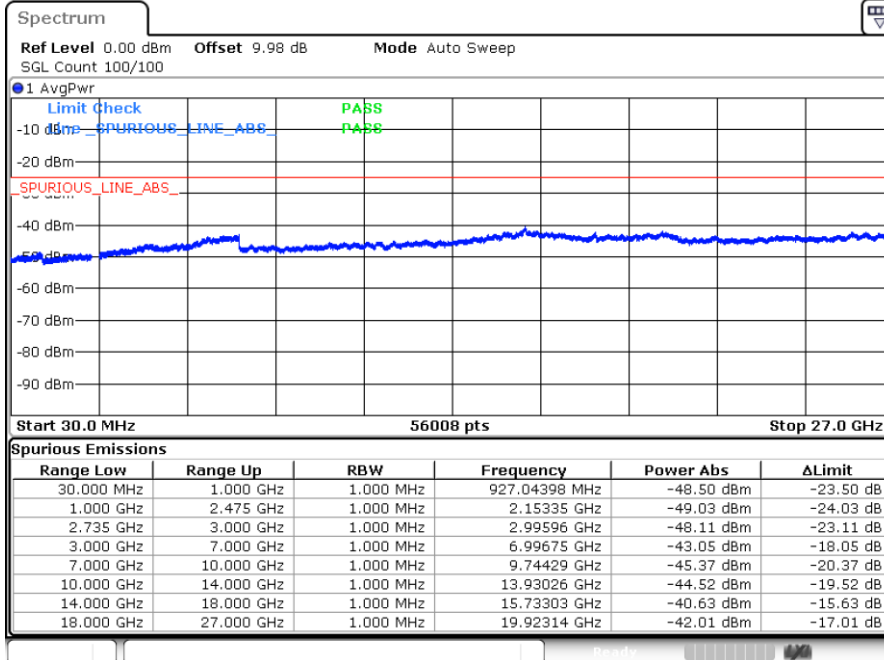
Date: 7.DEC.2022 21:52:30

Middle Channel / QPSK



Date: 7.DEC.2022 22:08:37

Highest Channel / QPSK

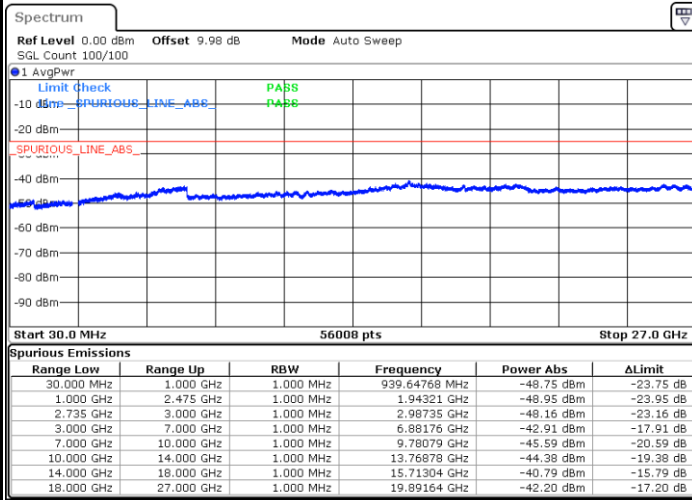


Date: 7.DEC.2022 22:10:14



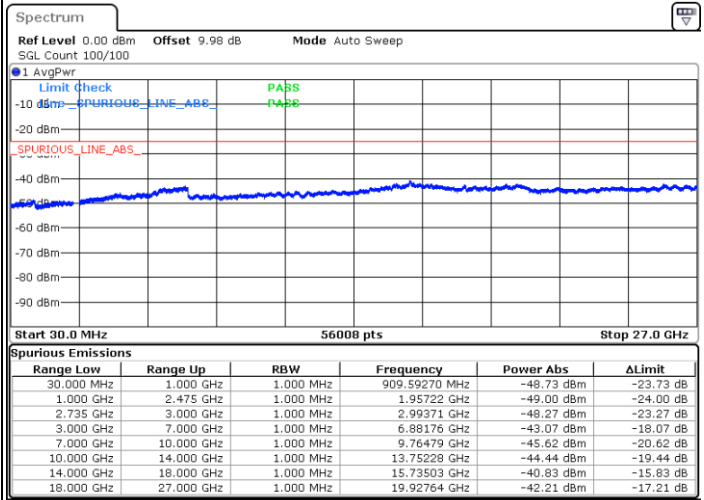
LTE Band 41C / 20MHz+10MHz

Lowest Channel / QPSK



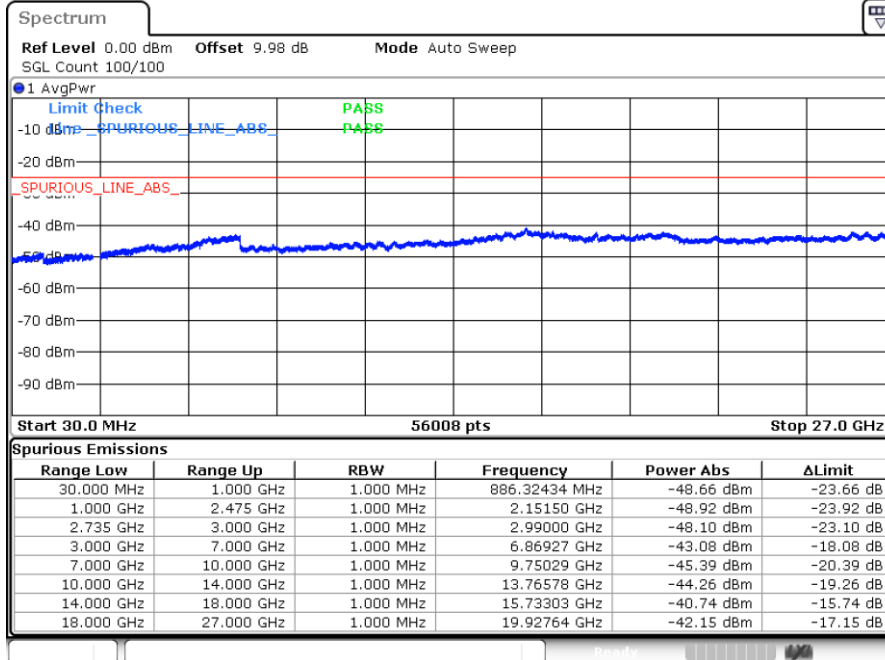
Date: 7.DEC.2022 22:26:19

Middle Channel / QPSK



Date: 7.DEC.2022 22:42:36

Highest Channel / QPSK

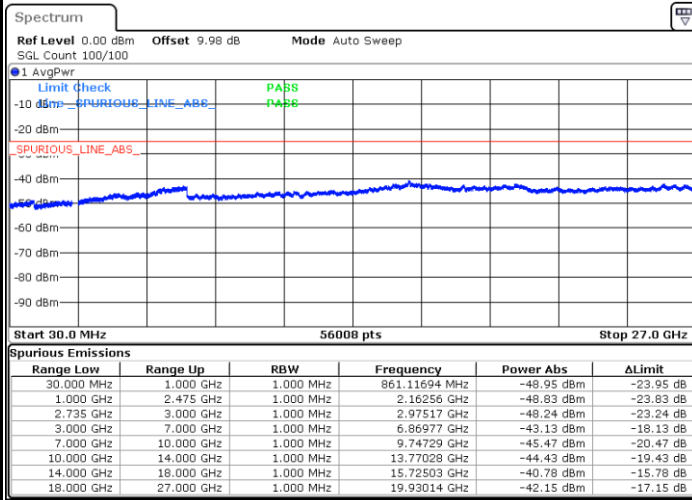


Date: 7.DEC.2022 22:44:14



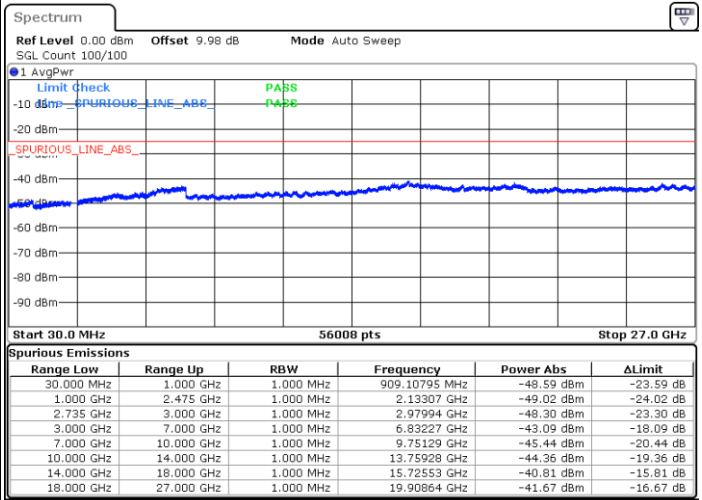
LTE Band 41C / 20MHz+15MHz

Lowest Channel / QPSK



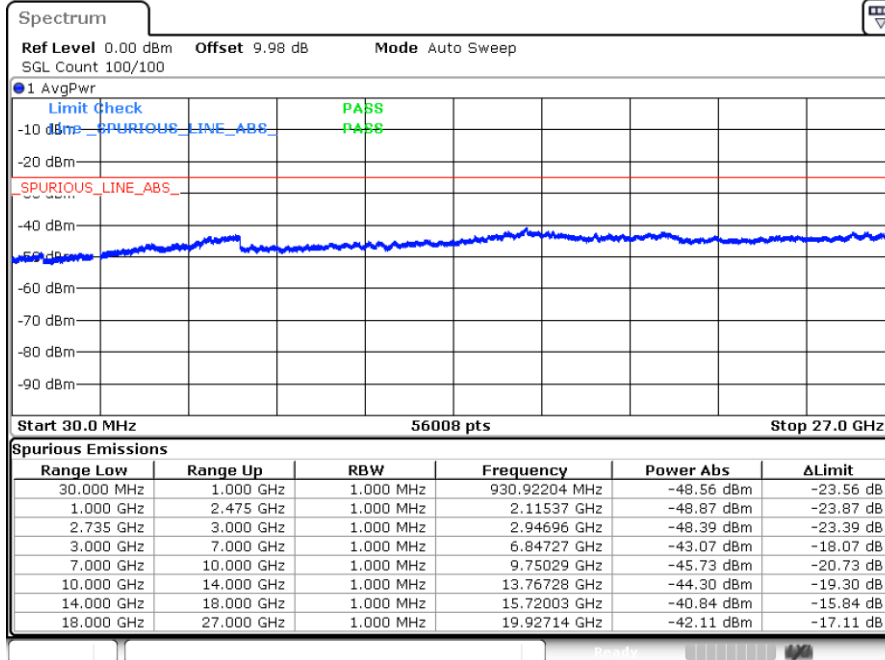
Date: 7.DEC.2022 23:00:12

Middle Channel / QPSK



Date: 7.DEC.2022 23:16:28

Highest Channel / QPSK



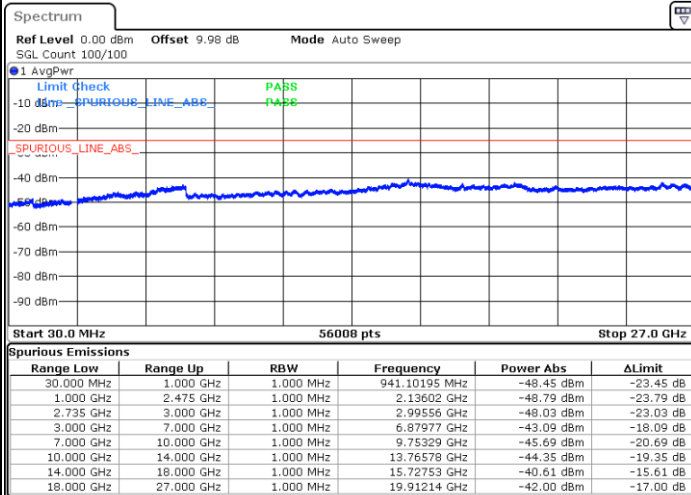
Date: 7.DEC.2022 23:18:06



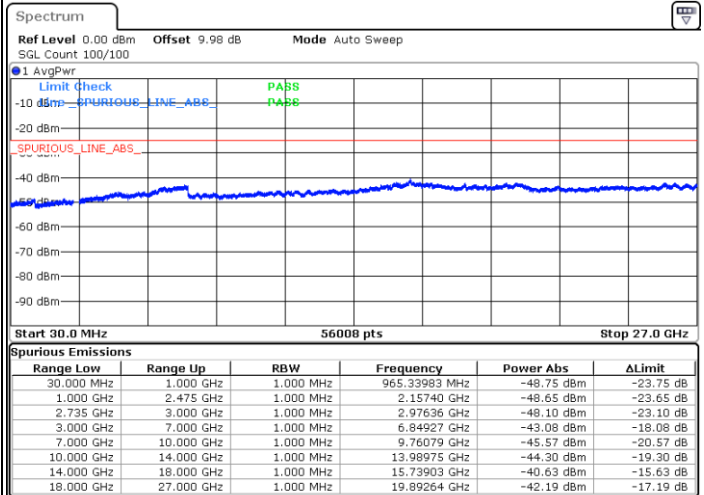
LTE Band 41C / 20MHz+20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

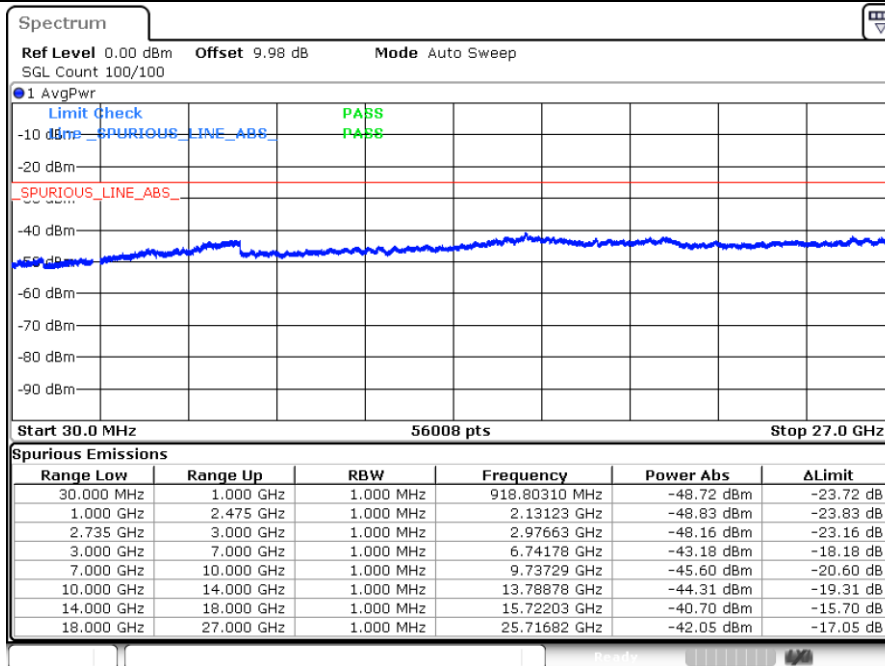


Date: 7.DEC.2022 23:34:06



Date: 7.DEC.2022 23:50:21

Highest Channel / QPSK



Date: 7.DEC.2022 23:51:59

**Frequency Stability**

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0046	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carl Ni	Temperature :	22~25°C
		Relative Humidity :	48~52%

Pre-scanned harmonic for all the supported antennas, choose the worst antenna perform final test and record in the report.

LTE Band 7 / 20MHz / QPSK (ANT6)								
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)
Lowest	5000	-64.44	-25	-39.44	-74.65	3.03	13.24	H
	7504	-63.27	-25	-38.27	-72.72	3.56	13.01	H
	10000	-62.35	-25	-37.35	-71.87	3.92	13.44	H
	5000	-64.50	-25	-39.50	-74.71	3.03	13.24	V
	7504	-62.97	-25	-37.97	-72.42	3.56	13.01	V
	10000	-62.39	-25	-37.39	-71.91	3.92	13.44	V
Middle	5052	-63.46	-25	-38.46	-73.67	3.03	13.24	H
	7576	-62.19	-25	-37.19	-71.64	3.56	13.01	H
	10100	-62.04	-25	-37.04	-71.56	3.92	13.44	H
	5052	-63.50	-25	-38.50	-73.71	3.03	13.24	V
	7576	-62.71	-25	-37.71	-72.16	3.56	13.01	V
	10100	-62.16	-25	-37.16	-71.68	3.92	13.44	V
Highest	5104	-64.64	-25	-39.64	-74.85	3.03	13.24	H
	7652	-62.95	-25	-37.95	-72.40	3.56	13.01	H
	10200	-62.10	-25	-37.10	-71.62	3.92	13.44	H
	5104	-64.51	-25	-39.51	-74.72	3.03	13.24	V
	7652	-62.76	-25	-37.76	-72.21	3.56	13.01	V
	10200	-62.55	-25	-37.55	-72.07	3.92	13.44	V

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



LTE Band 41 / 20MHz / QPSK (ANT0)								
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)
Lowest	4996	-60.87	-25	-35.87	-71.08	3.03	13.24	H
	7492	-60.87	-25	-35.87	-70.32	3.56	13.01	H
	9990	-62.37	-25	-37.37	-71.89	3.92	13.44	H
	4996	-64.50	-25	-39.50	-74.71	3.03	13.24	V
	7492	-62.80	-25	-37.80	-72.25	3.56	13.01	V
	9990	-62.73	-25	-37.73	-72.25	3.92	13.44	V
Middle	5168	-59.61	-25	-34.61	-69.82	3.03	13.24	H
	7752	-62.51	-25	-37.51	-71.96	3.56	13.01	H
	10340	-63.11	-25	-38.11	-72.63	3.92	13.44	H
	5168	-64.26	-25	-39.26	-74.47	3.03	13.24	V
	7752	-62.72	-25	-37.72	-72.17	3.56	13.01	V
	10340	-62.97	-25	-37.97	-72.49	3.92	13.44	V
Highest	5344	-64.21	-25	-39.21	-74.42	3.03	13.24	H
	8010	-62.89	-25	-37.89	-72.34	3.56	13.01	H
	10680	-61.65	-25	-36.65	-71.17	3.92	13.44	H
	5344	-65.20	-25	-40.20	-75.41	3.03	13.24	V
	8010	-62.95	-25	-37.95	-72.40	3.56	13.01	V
	10680	-62.06	-25	-37.06	-71.58	3.92	13.44	V

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



LTE Band 38C_CA / 20MHz+20MHz / QPSK (ANT0)								
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)
Lowest (1RB0)	5144	-63.16	-25	-38.16	-73.37	3.03	13.24	H
	7712	-62.12	-25	-37.12	-71.57	3.56	13.01	H
	10280	-61.33	-25	-36.33	-70.85	3.92	13.44	H
	5144	-63.24	-25	-38.24	-73.45	3.03	13.24	V
	7712	-62.24	-25	-37.24	-71.69	3.56	13.01	V
	10280	-61.73	-25	-36.73	-71.25	3.92	13.44	V
Lowest (1RBMax)	5180	-63.60	-25	-38.60	-73.81	3.03	13.24	H
	7772	-62.62	-25	-37.62	-72.07	3.56	13.01	H
	10360	-61.82	-25	-36.82	-71.34	3.92	13.44	H
	5180	-63.60	-25	-38.60	-73.81	3.03	13.24	V
	7772	-62.62	-25	-37.62	-72.07	3.56	13.01	V
	10360	-61.82	-25	-36.82	-71.34	3.92	13.44	V
Middle (1RB0)	5152	-62.80	-25	-37.80	-73.01	3.03	13.24	H
	7728	-62.35	-25	-37.35	-71.80	3.56	13.01	H
	10300	-61.43	-25	-36.43	-70.95	3.92	13.44	H
	5152	-63.42	-25	-38.42	-73.63	3.03	13.24	V
	7728	-62.51	-25	-37.51	-71.96	3.56	13.01	V
	10300	-61.80	-25	-36.80	-71.32	3.92	13.44	V
Middle (1RBMax)	5192	-63.16	-25	-38.16	-73.37	3.03	13.24	H
	7788	-62.01	-25	-37.01	-71.46	3.56	13.01	H
	10380	-61.70	-25	-36.70	-71.22	3.92	13.44	H
	5192	-63.80	-25	-38.80	-74.01	3.03	13.24	V
	7788	-62.35	-25	-37.35	-71.80	3.56	13.01	V
	10380	-62.28	-25	-37.28	-71.80	3.92	13.44	V
Highest (1RB0)	5160	-63.59	-25	-38.59	-73.80	3.03	13.24	H
	7744	-62.35	-25	-37.35	-71.80	3.56	13.01	H
	10320	-61.59	-25	-36.59	-71.11	3.92	13.44	H
	5160	-63.22	-25	-38.22	-73.43	3.03	13.24	V
	7744	-62.05	-25	-37.05	-71.50	3.56	13.01	V
	10320	-61.89	-25	-36.89	-71.41	3.92	13.44	V
Highest (1RBMax)	5200	-63.96	-25	-38.96	-74.17	3.03	13.24	H
	7804	-62.19	-25	-37.19	-71.64	3.56	13.01	H
	10400	-60.75	-25	-35.75	-70.27	3.92	13.44	H
	5200	-63.42	-25	-38.42	-73.63	3.03	13.24	V
	7804	-61.69	-25	-36.69	-71.14	3.56	13.01	V
	10400	-61.58	-25	-36.58	-71.10	3.92	13.44	V

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



LTE Band 41C_CA / 20MHz+20MHz / QPSK (ANT0)								
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)
Lowest (1RB0)	4992	-60.36	-25	-35.36	-70.57	3.03	13.24	H
	7492	-61.74	-25	-36.74	-71.19	3.56	13.01	H
	9990	-62.69	-25	-37.69	-72.21	3.92	13.44	H
	4992	-64.05	-25	-39.05	-74.26	3.03	13.24	V
	7492	-63.12	-25	-38.12	-72.57	3.56	13.01	V
	9990	-62.85	-25	-37.85	-72.37	3.92	13.44	V
Lowest (1RBMax)	5032	-64.38	-25	-39.38	-74.59	3.03	13.24	H
	7544	-63.84	-25	-38.84	-73.29	3.56	13.01	H
	10060	-62.56	-25	-37.56	-72.08	3.92	13.44	H
	5032	-64.20	-25	-39.20	-74.41	3.03	13.24	V
	7544	-63.34	-25	-38.34	-72.79	3.56	13.01	V
	10060	-62.89	-25	-37.89	-72.41	3.92	13.44	V
Middle (1RB0)	5148	-60.84	-25	-35.84	-71.05	3.03	13.24	H
	7720	-63.04	-25	-38.04	-72.49	3.56	13.01	H
	10300	-62.49	-25	-37.49	-72.01	3.92	13.44	H
	5148	-63.80	-25	-38.80	-74.01	3.03	13.24	V
	7720	-62.79	-25	-37.79	-72.24	3.56	13.01	V
	10300	-63.91	-25	-38.91	-73.43	3.92	13.44	V
Middle (1RBMax)	5184	-64.29	-25	-39.29	-74.50	3.03	13.24	H
	7776	-63.15	-25	-38.15	-72.60	3.56	13.01	H
	10370	-62.42	-25	-37.42	-71.94	3.92	13.44	H
	5184	-64.39	-25	-39.39	-74.60	3.03	13.24	V
	7776	-63.05	-25	-38.05	-72.50	3.56	13.01	V
	10370	-63.42	-25	-38.42	-72.94	3.92	13.44	V
Highest (1RB0)	5304	-64.36	-25	-39.36	-74.57	3.03	13.24	H
	7952	-61.89	-25	-36.89	-71.34	3.56	13.01	H
	10600	-62.07	-25	-37.07	-71.59	3.92	13.44	H
	5304	-64.76	-25	-39.76	-74.97	3.03	13.24	V
	7952	-60.28	-25	-35.28	-69.73	3.56	13.01	V
	10600	-62.11	-25	-37.11	-71.63	3.92	13.44	V
Highest (1RBMax)	5336	-65.18	-25	-40.18	-75.39	3.03	13.24	H
	8000	-62.97	-25	-37.97	-72.42	3.56	13.01	H
	10680	-61.81	-25	-36.81	-71.33	3.92	13.44	H
	5336	-64.81	-25	-39.81	-75.02	3.03	13.24	V
	8000	-63.12	-25	-38.12	-72.57	3.56	13.01	V
	10680	-62.06	-25	-37.06	-71.58	3.92	13.44	V

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