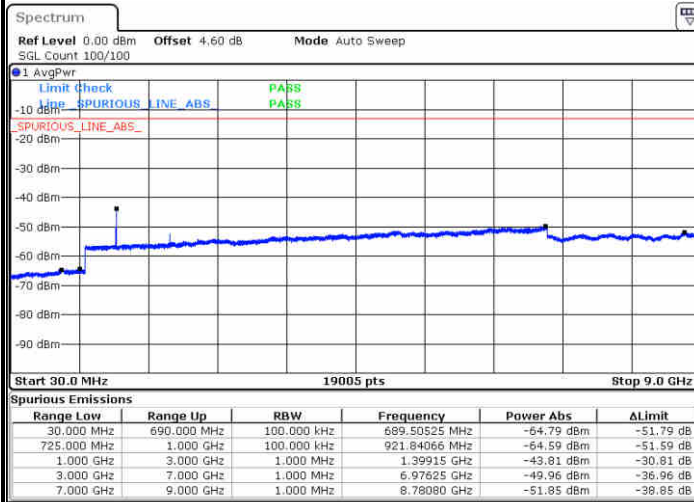




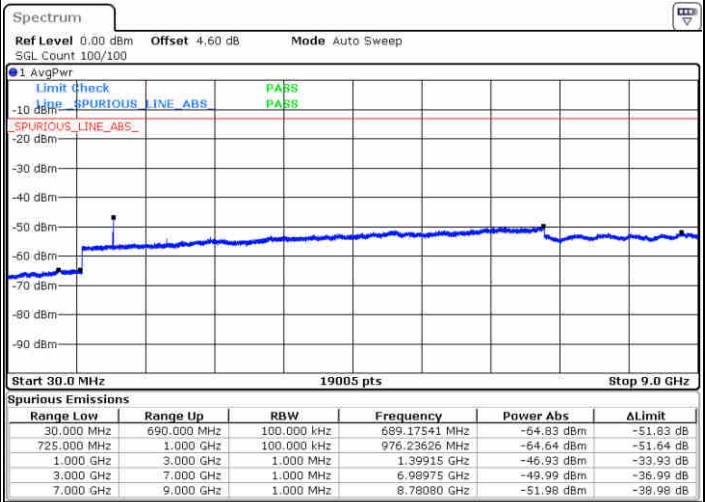
LTE Band 12 / 5MHz

Lowest Channel / QPSK



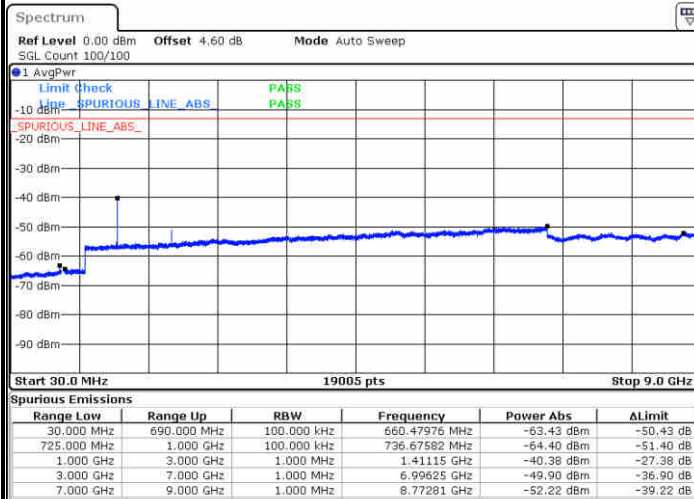
Date: 17.MAY.2020 03:58:40

Lowest Channel / 16QAM



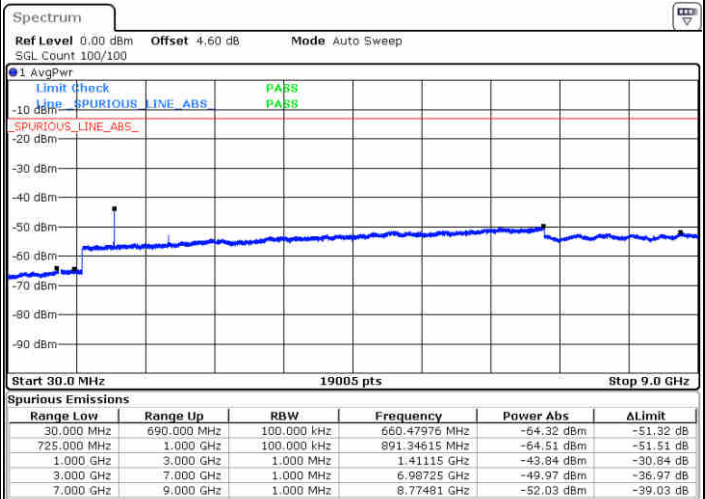
Date: 17.MAY.2020 03:58:34

Middle Channel / QPSK



Date: 17.MAY.2020 04:01:23

Middle Channel / 16QAM

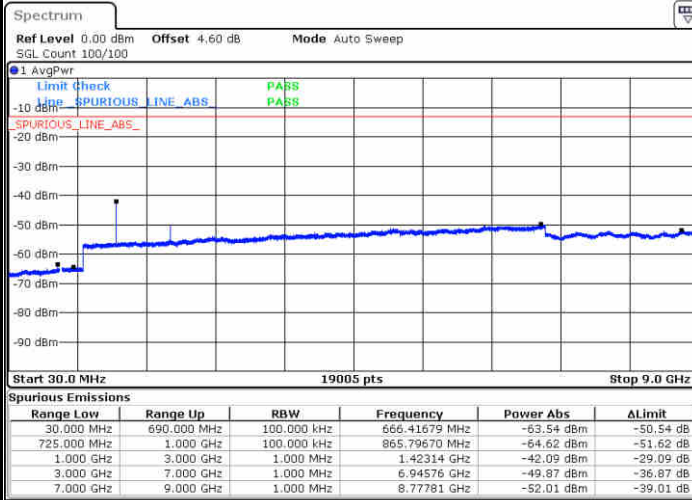


Date: 17.MAY.2020 04:00:29



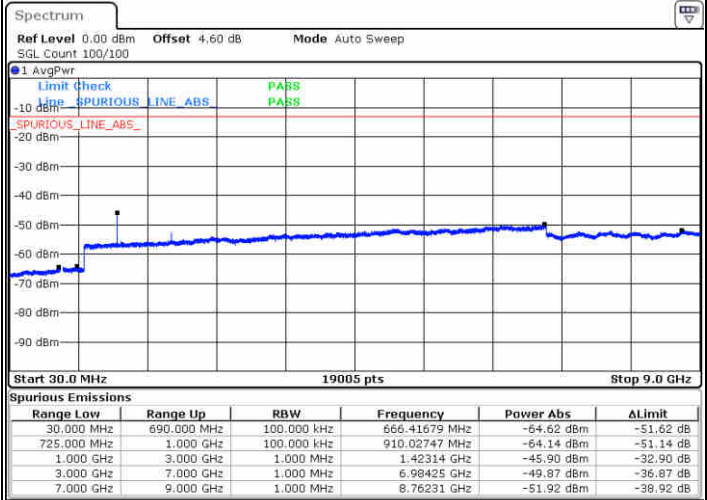
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 17.MAY.2020 04:02:18

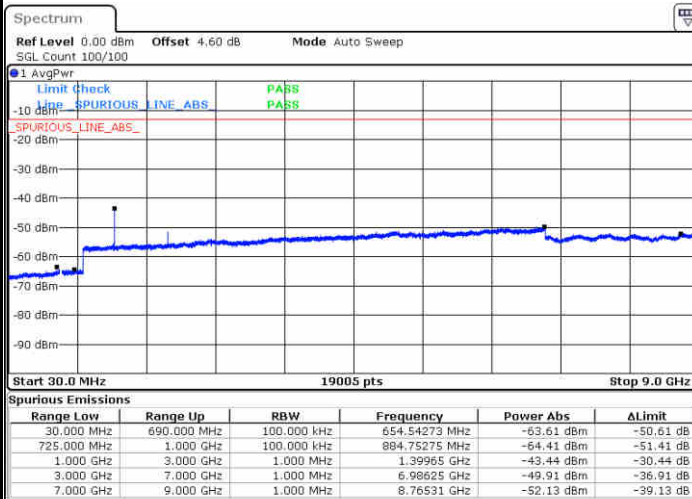
Highest Channel / 16QAM



Date: 17.MAY.2020 04:03:13

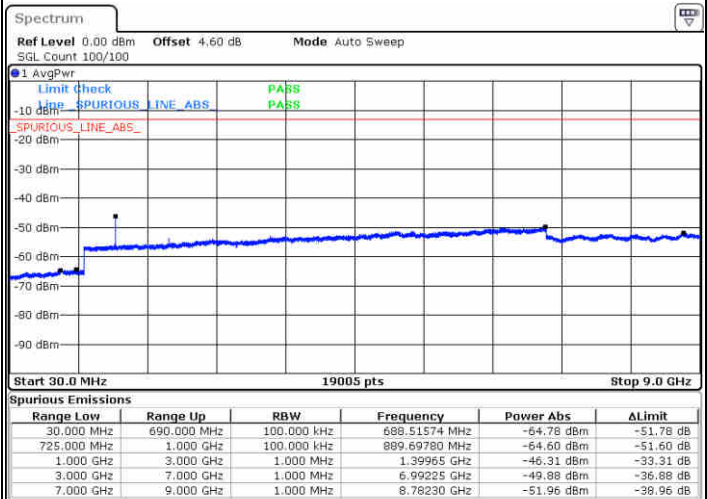
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 17.MAY.2020 04:15:08

Lowest Channel / 16QAM

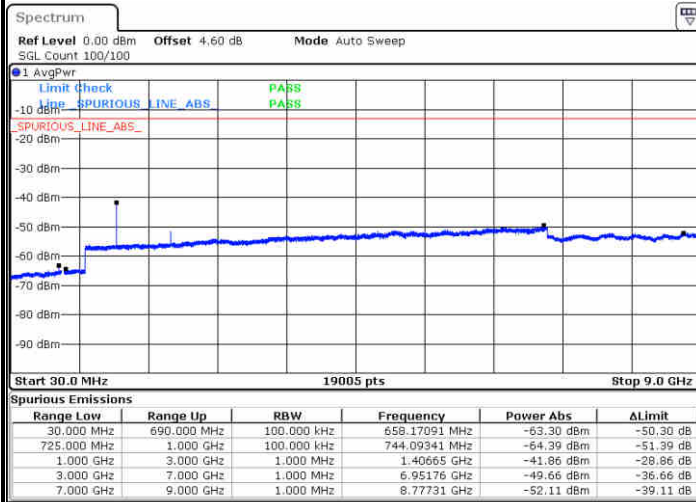


Date: 17.MAY.2020 04:16:02



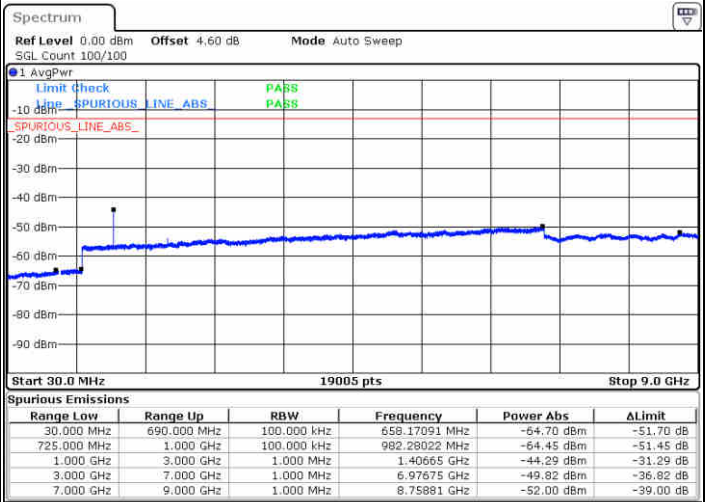
LTE Band 12 / 10MHz

Middle Channel / QPSK



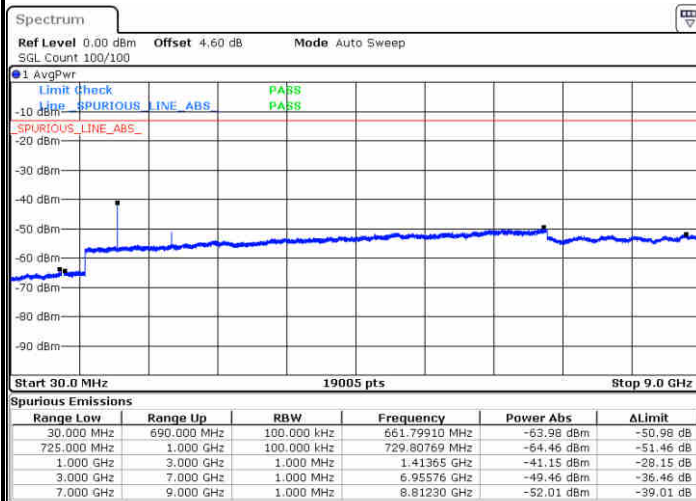
Date: 17.MAY.2020 04:17:51

Middle Channel / 16QAM



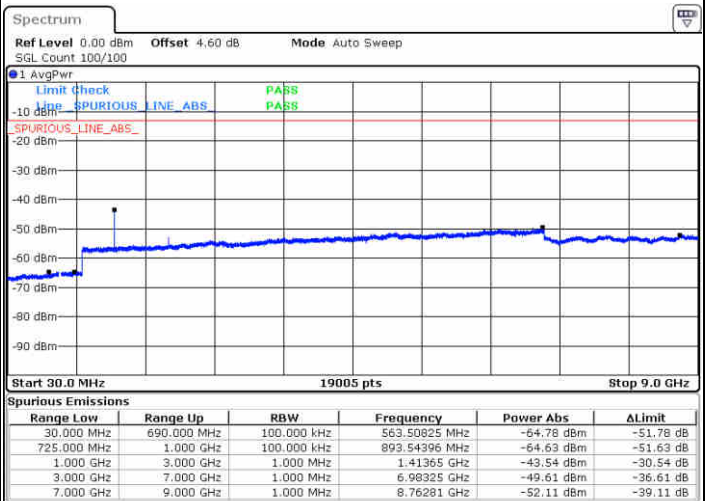
Date: 17.MAY.2020 04:16:57

Highest Channel / QPSK



Date: 17.MAY.2020 04:18:46

Highest Channel / 16QAM



Date: 17.MAY.2020 04:19:41

**Frequency Stability**

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0042	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =4.0 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.

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	-57.19	-13	-44.19	-66.31	1.58	10.70	H
	5613	-54.10	-13	-41.10	-64.50	2.102	12.50	H
	7488	-49.02	-13	-36.02	-60.06	2.856	13.90	H
	3741	-57.69	-13	-44.69	-66.81	1.58	10.70	V
	5613	-53.99	-13	-40.99	-64.39	2.10	12.50	V
	7488	-48.37	-13	-35.37	-59.41	2.86	13.90	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	-53.97	-13	-40.97	-64.71	2.604	13.34	H
	5170.77	-53.58	-13	-40.58	-64.09	3.011	13.52	H
	6900	-50.91	-13	-37.91	-61.11	3.271	13.47	H
	3447	-58.53	-13	-45.53	-69.27	2.604	13.34	V
	5172	-54.65	-13	-41.65	-65.16	3.011	13.52	V
	6900	-50.94	-13	-37.94	-61.14	3.271	13.47	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	-65.78	-13	-52.78	-72.75	1.58	10.70	H
	2496	-64.16	-13	-51.16	-72.41	2.102	12.50	H
	3330	-63.60	-13	-50.60	-72.49	2.856	13.90	H
	1664	-64.06	-13	-51.06	-71.03	1.58	10.70	V
	2496	-64.54	-13	-51.54	-72.79	2.10	12.50	V
	3330	-63.48	-13	-50.48	-72.37	2.86	13.90	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	-67.23	-13	-54.23	-74.20	1.58	10.70	H
	2110	-60.84	-13	-47.84	-69.09	2.102	12.50	H
	2812	-64.29	-13	-51.29	-73.18	2.856	13.90	H
	1406.18	-67.65	-13	-54.65	-74.62	1.58	10.70	V
	2110	-65.18	-13	-52.18	-73.43	2.10	12.50	V
	2812	-63.86	-13	-50.86	-72.75	2.86	13.90	V

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