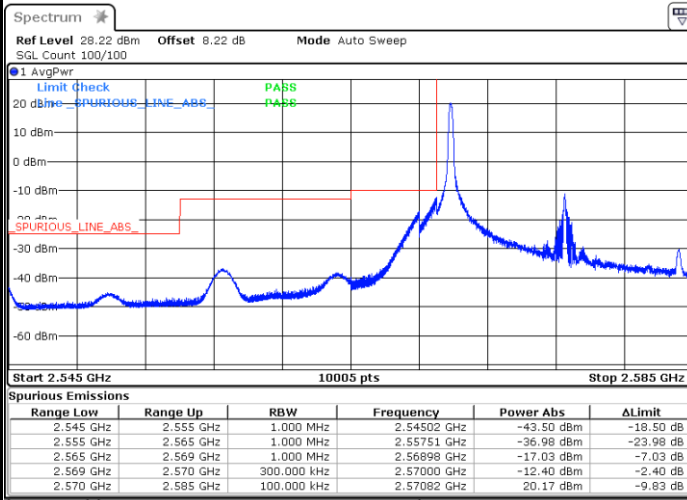




LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



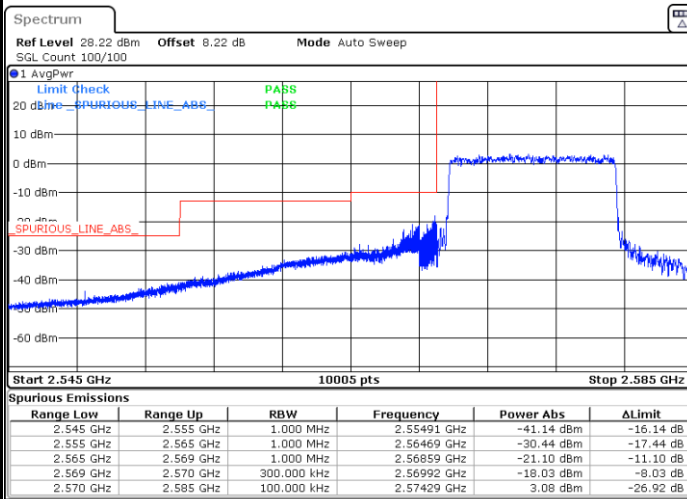
Date: 15.NOV.2019 17:05:05

Highest Band Edge / 1 RB



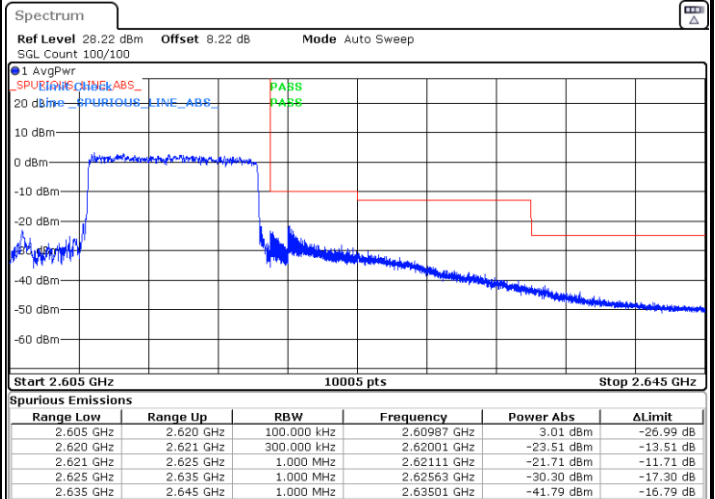
Date: 15.NOV.2019 17:11:29

Lowest Band Edge / Full RB



Date: 26.NOV.2019 09:21:36

Highest Band Edge / Full RB

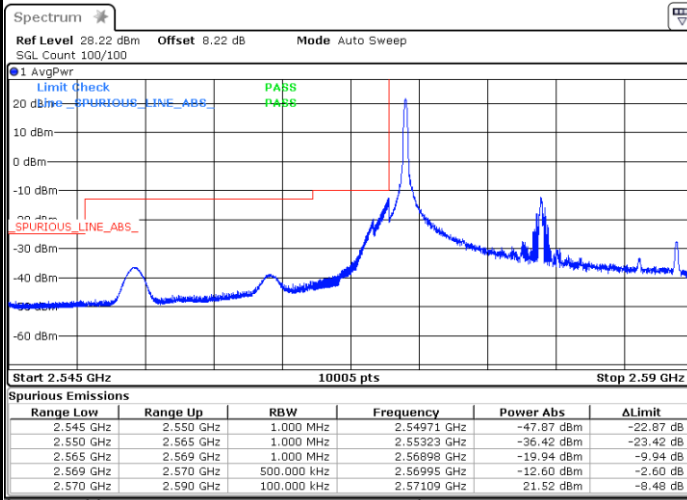


Date: 26.NOV.2019 09:21:09



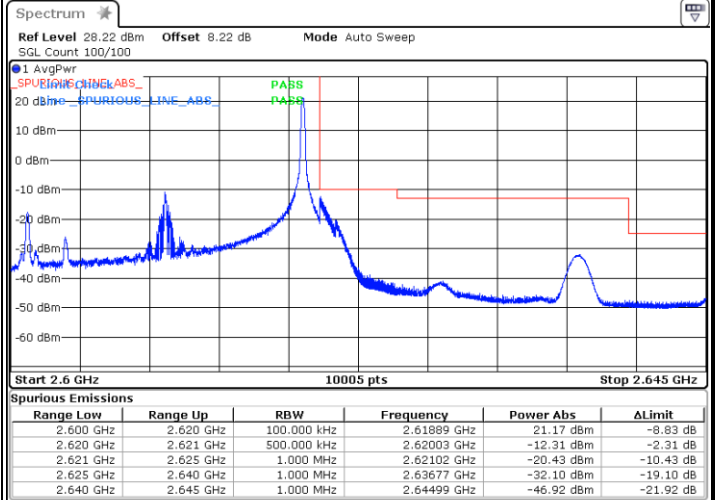
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB



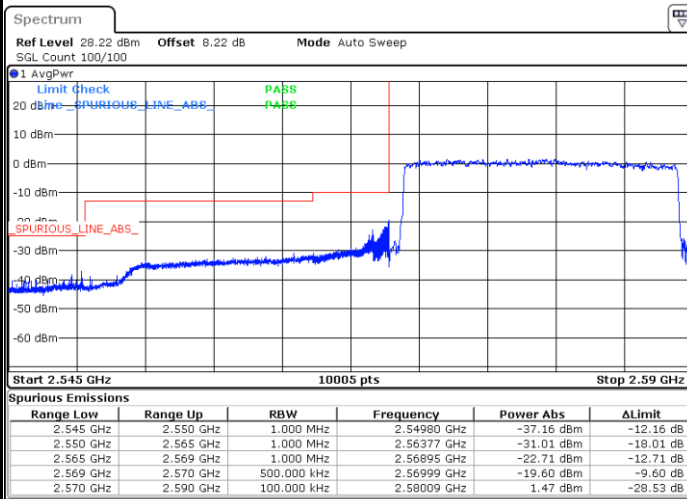
Date: 15.NOV.2019 17:13:07

Highest Band Edge / 1 RB



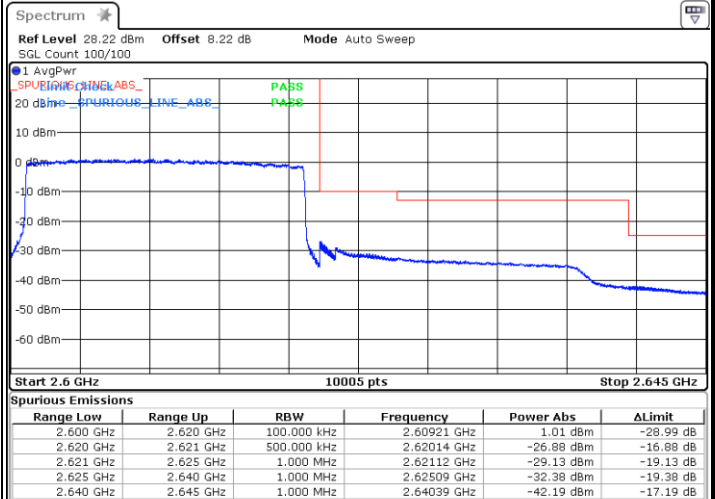
Date: 15.NOV.2019 17:29:03

Lowest Band Edge / Full RB



Date: 15.NOV.2019 17:25:45

Highest Band Edge / Full RB

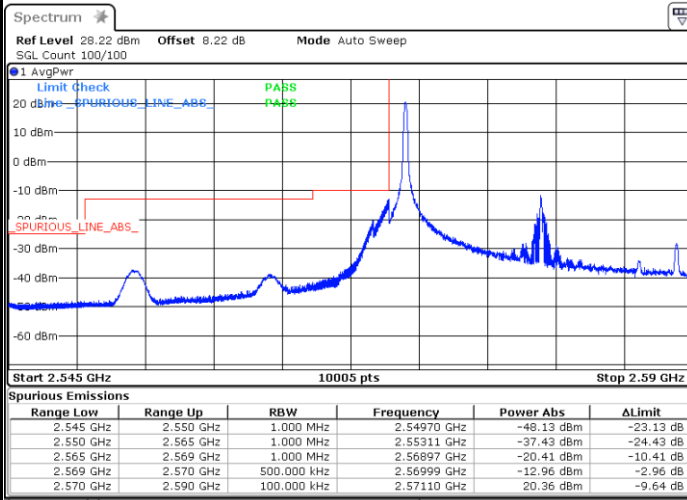


Date: 15.NOV.2019 17:27:28



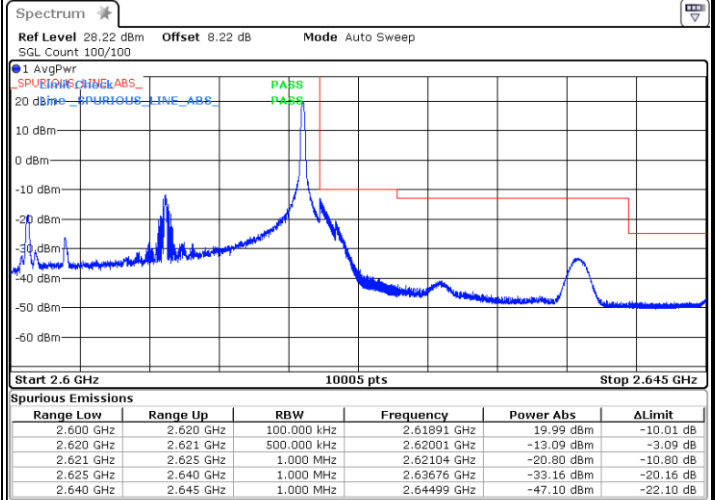
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



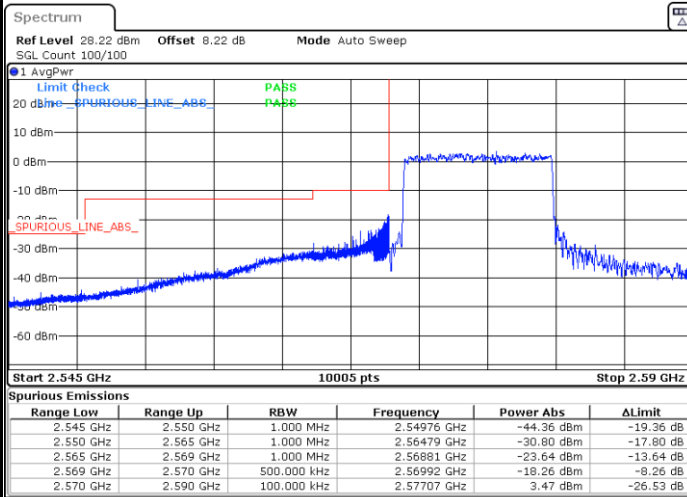
Date: 15.NOV.2019 17:23:12

Highest Band Edge / 1 RB



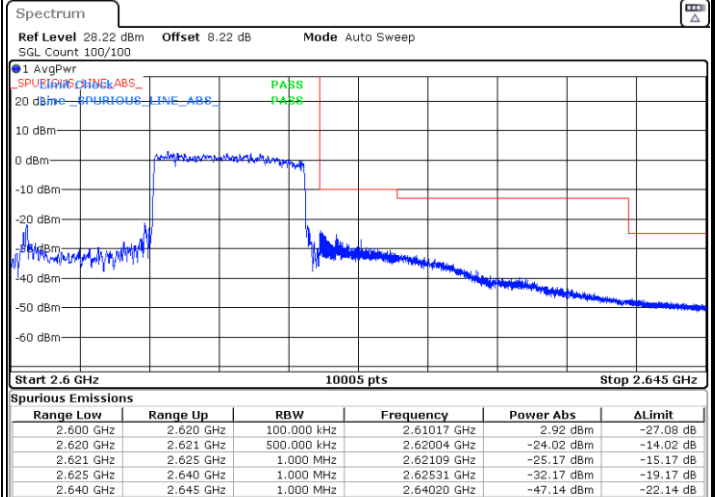
Date: 15.NOV.2019 17:30:36

Lowest Band Edge / Full RB



Date: 26.NOV.2019 09:22:56

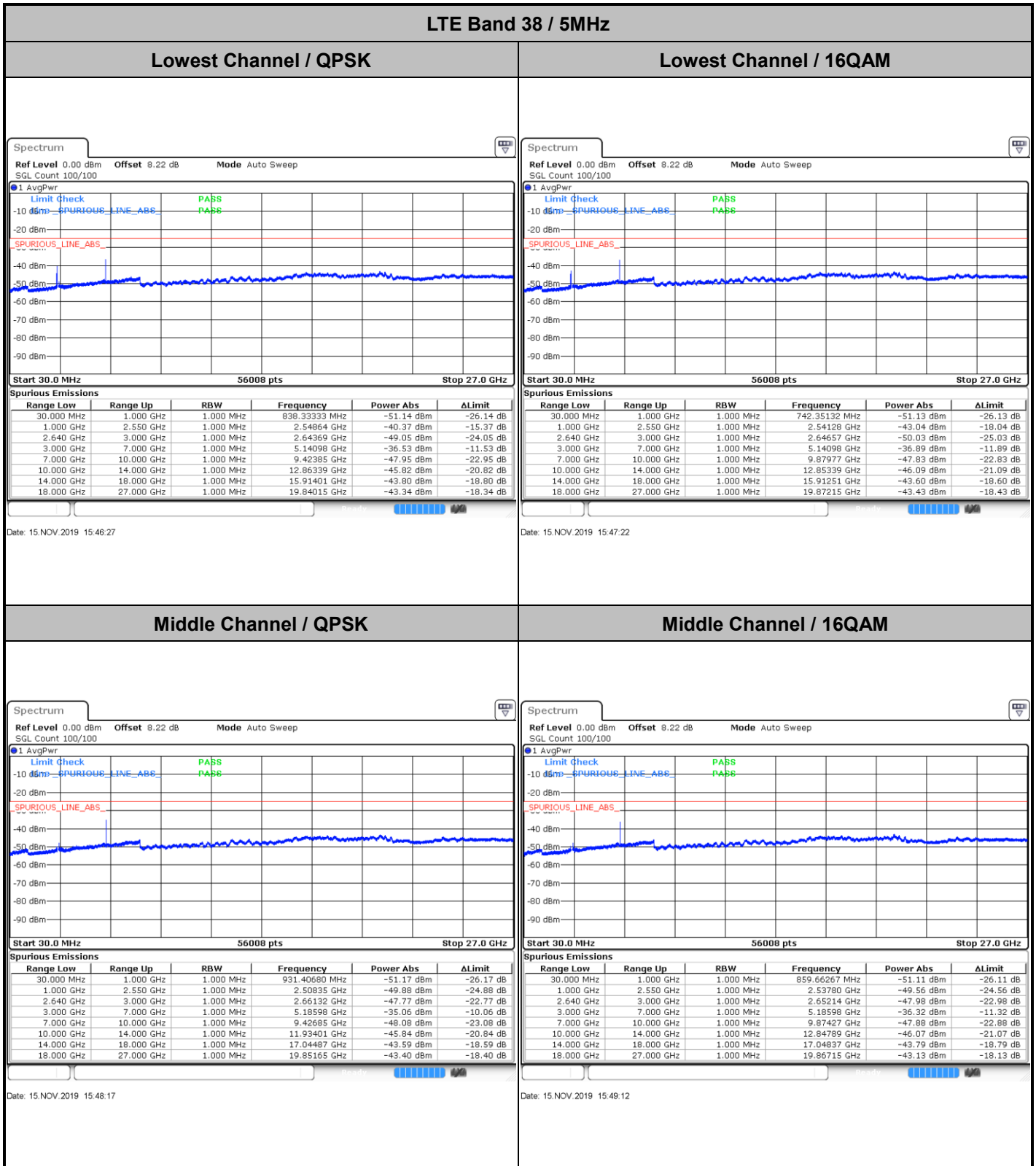
Highest Band Edge / Full RB



Date: 26.NOV.2019 09:23:37



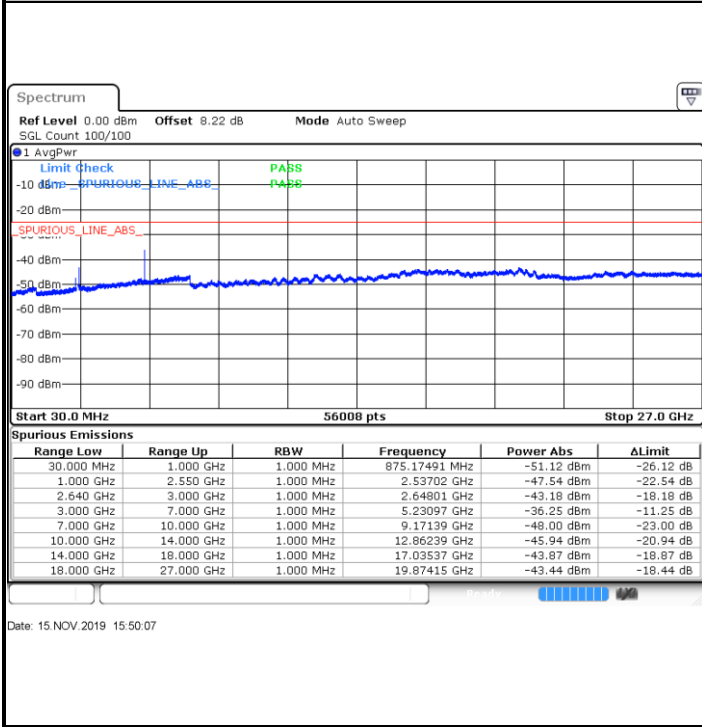
Conducted Spurious Emission



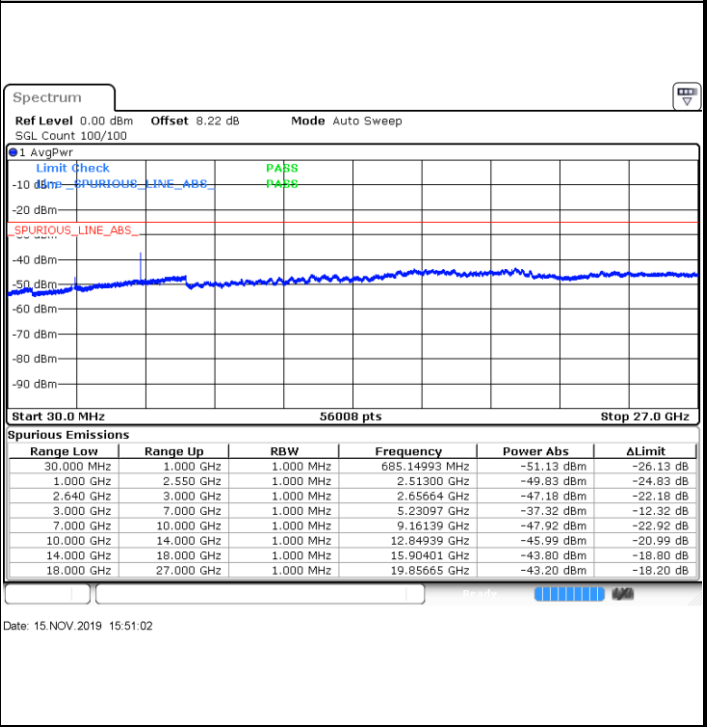


LTE Band 38 / 5MHz

Highest Channel / QPSK

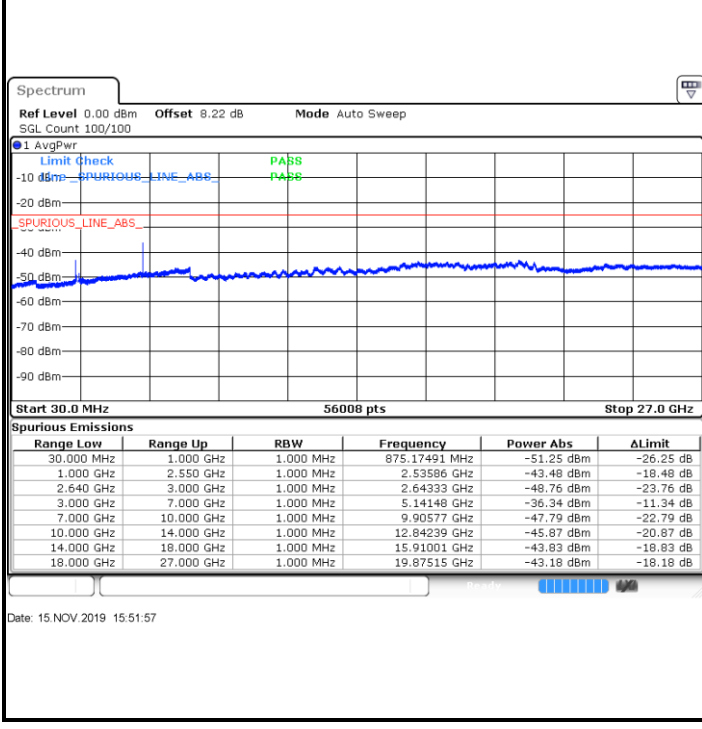


Highest Channel / 16QAM

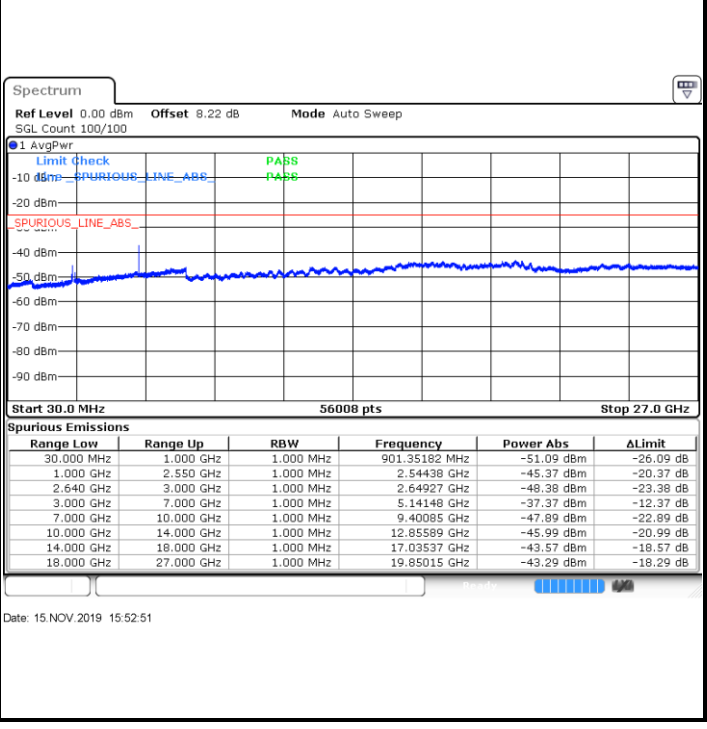


LTE Band 38 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

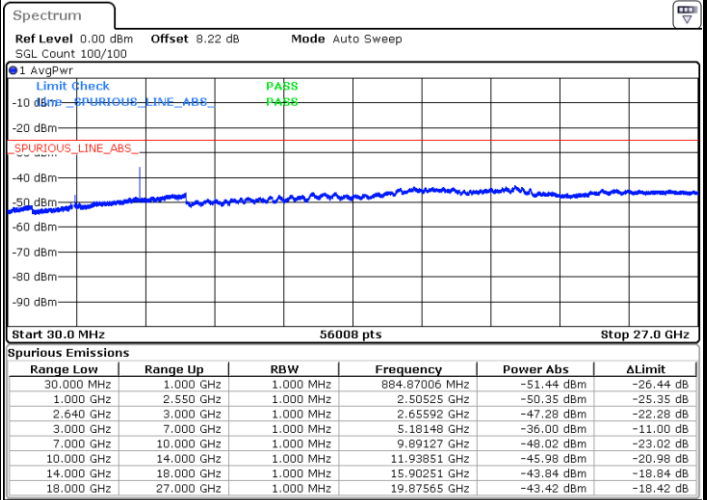
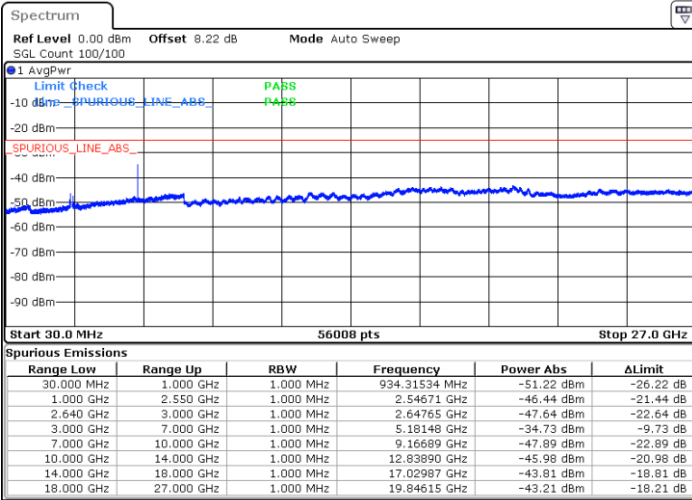




LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

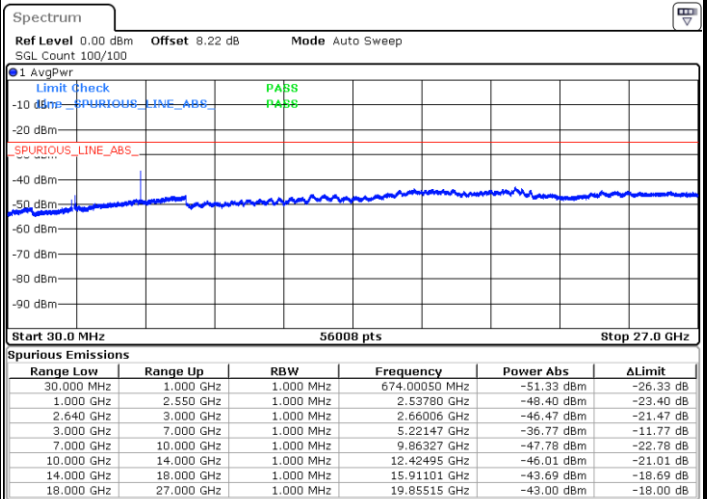
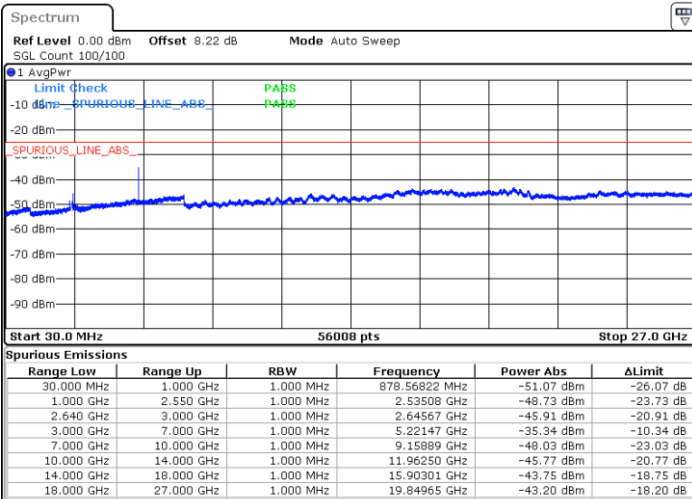


Date: 15.NOV.2019 15:53:46

Date: 15.NOV.2019 15:54:41

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.NOV.2019 15:55:36

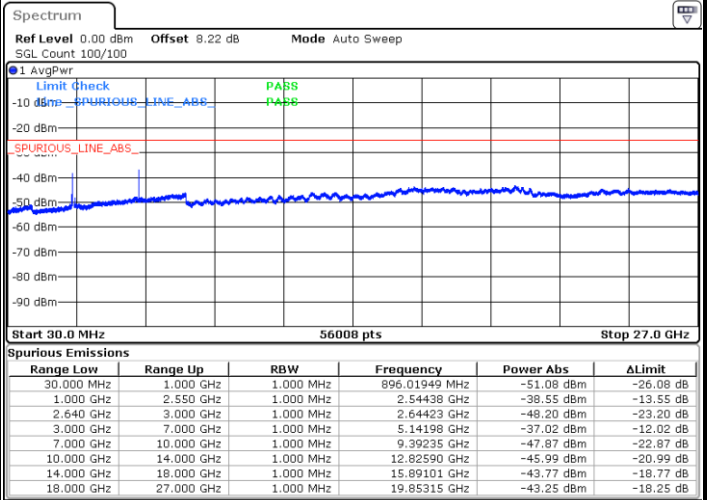
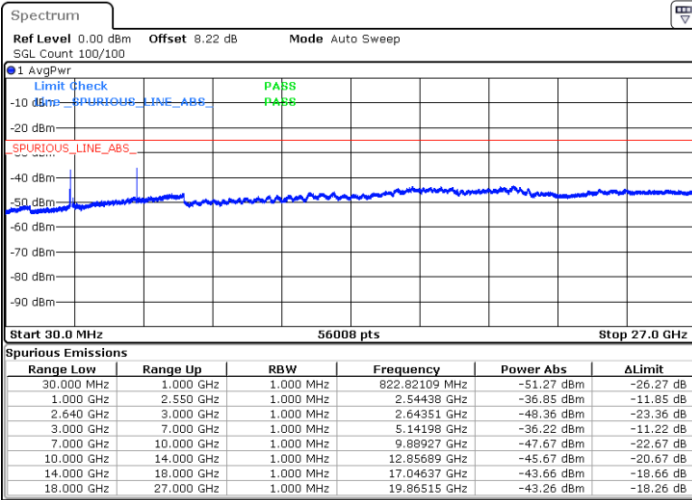
Date: 15.NOV.2019 15:56:31



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

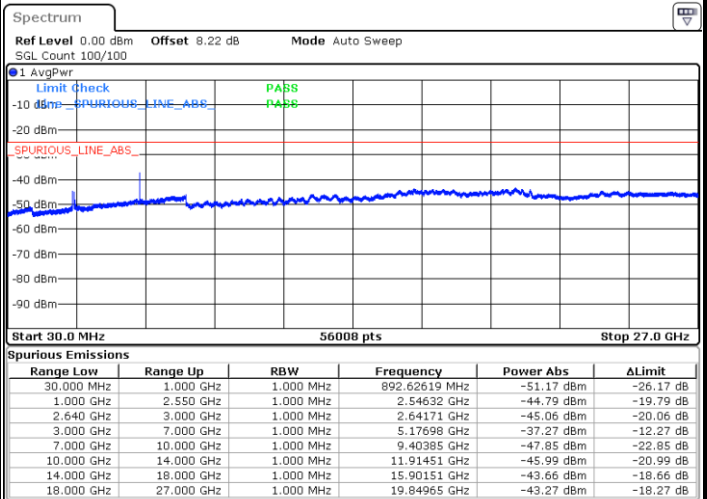
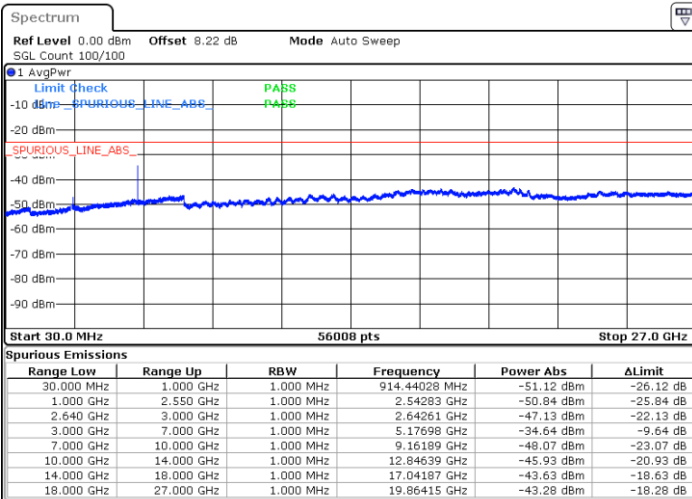


Date: 15.NOV.2019 15:57:26

Date: 15.NOV.2019 15:58:20

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 15.NOV.2019 15:59:15

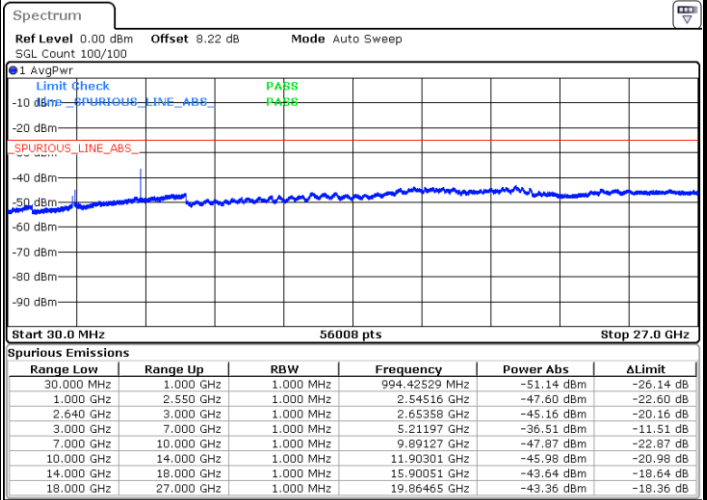
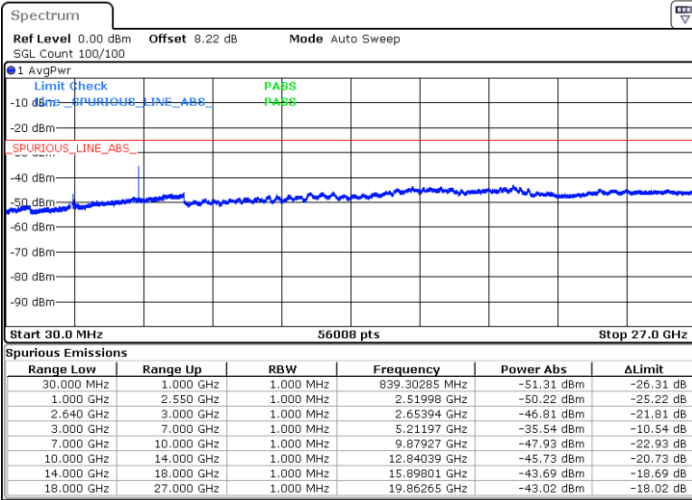
Date: 15.NOV.2019 16:00:10



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



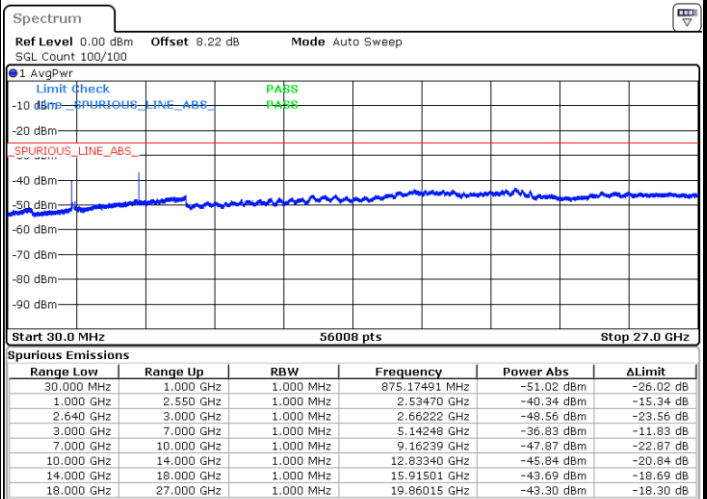
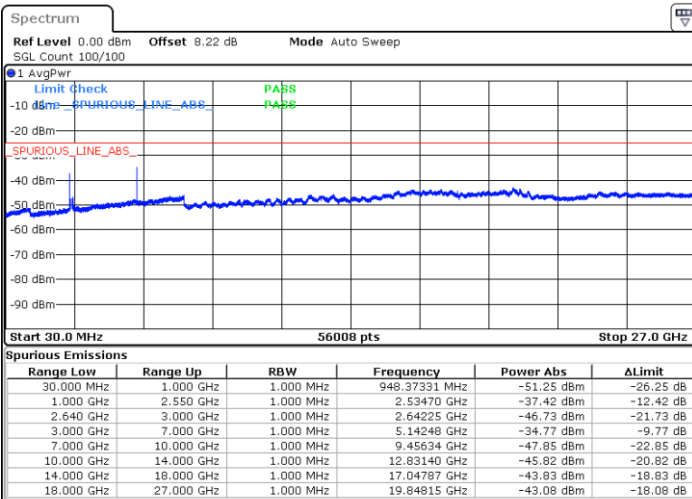
Date: 15.NOV.2019 16:01:05

Date: 15.NOV.2019 16:02:00

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 15.NOV.2019 16:02:55

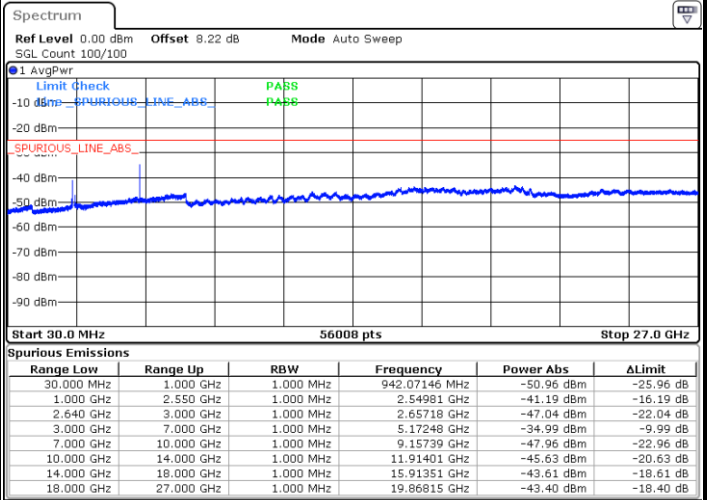
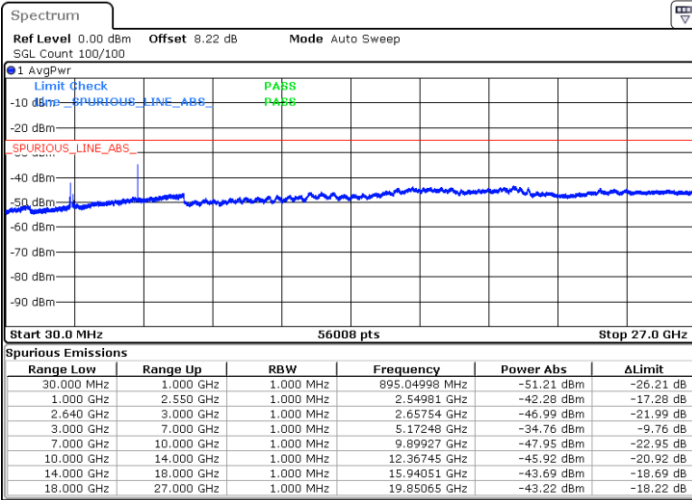
Date: 15.NOV.2019 16:03:50



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

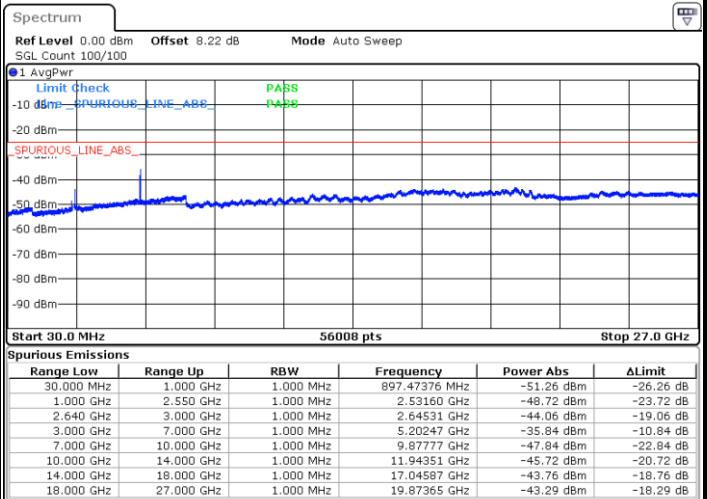
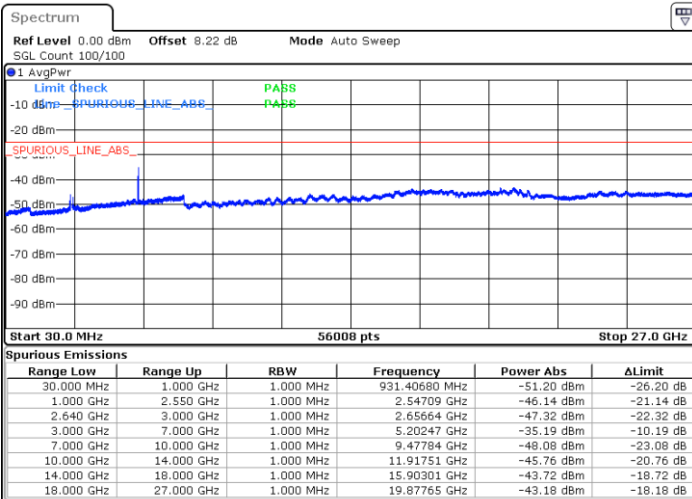


Date: 15.NOV.2019 16:04:45

Date: 15.NOV.2019 16:05:40

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.NOV.2019 16:06:35

Date: 15.NOV.2019 16:07:30



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0041	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0030	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 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 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	-60.49	-13	-47.49	-67.46	1.58	10.70	H
	2496	-54.38	-13	-41.38	-62.63	2.102	12.50	H
	3330	-54.43	-13	-41.43	-63.32	2.856	13.90	H
	4158	-57.95	-13	-44.95	-66.41	2.689	13.30	H
	1664	-51.49	-13	-38.49	-58.46	1.58	10.70	V
	2496	-54.33	-13	-41.33	-62.58	2.10	12.50	V
	3330	-58.46	-13	-45.46	-67.35	2.86	13.90	V
	4158	-60.13	-13	-47.13	-68.59	2.69	13.30	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	-46.96	-25	-21.96	-57.17	3.03	13.24	H
	7580	-48.76	-25	-23.76	-58.21	3.56	13.01	H
	10100	-47.94	-25	-22.94	-57.46	3.92	13.44	H
	12630	-47.02	-25	-22.02	-56.94	4.44	14.36	H
	5052	-46.22	-25	-21.22	-56.43	3.03	13.24	V
	7580	-45.22	-25	-20.22	-54.67	3.56	13.01	V
	10100	-49.86	-25	-24.86	-59.38	3.92	13.44	V
	12630	-46.06	-25	-21.06	-55.98	4.44	14.36	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	-47.42	-25	-22.42	-57.63	3.03	13.24	H
	7760	-47.38	-25	-22.38	-56.83	3.56	13.01	H
	10340	-49.95	-25	-24.95	-59.47	3.92	13.44	H
	12930	-43.84	-25	-18.84	-53.76	4.44	14.36	H
	5172	-46.96	-25	-21.96	-57.17	3.03	13.24	V
	7760	-43.70	-25	-18.70	-53.15	3.56	13.01	V
	10340	-50.31	-25	-25.31	-59.83	3.92	13.44	V
	12930	-45.23	-25	-20.23	-55.15	4.44	14.36	V

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