

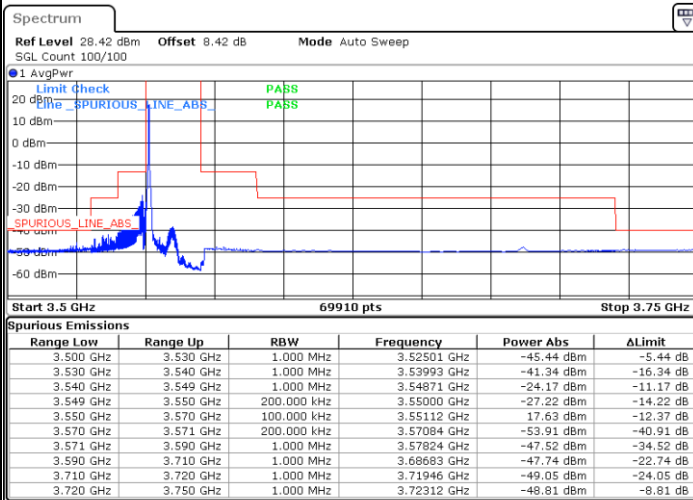


LTE Band 48 / 20MHz

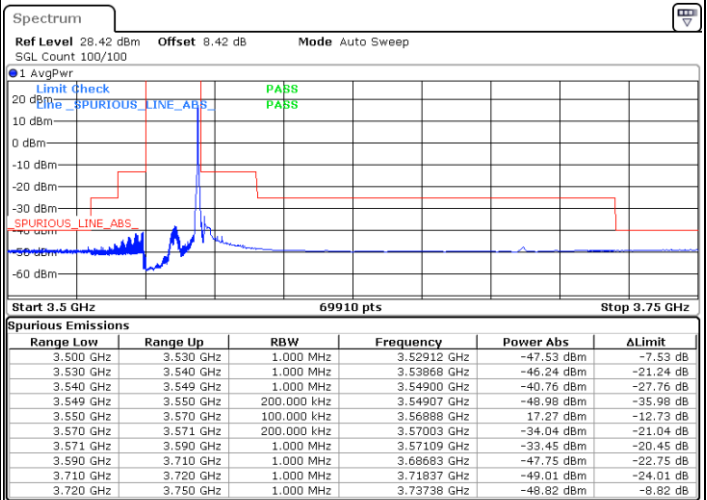
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



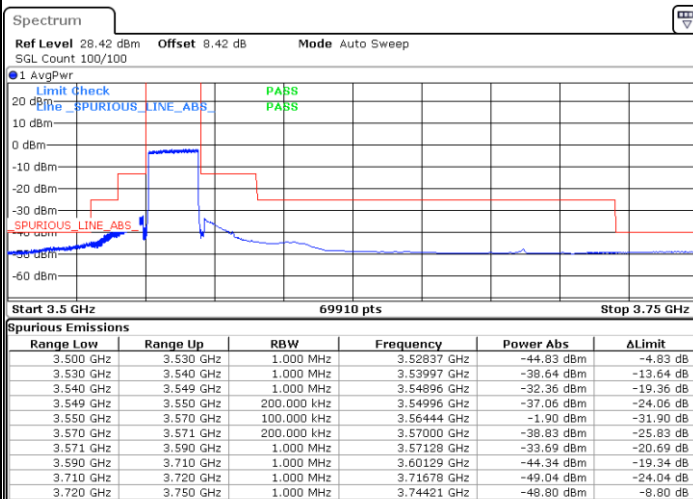
Date: 8.SEP.2020 04:03:49



Date: 8.SEP.2020 04:14:40

Lowest Channel / Full RB

N/A



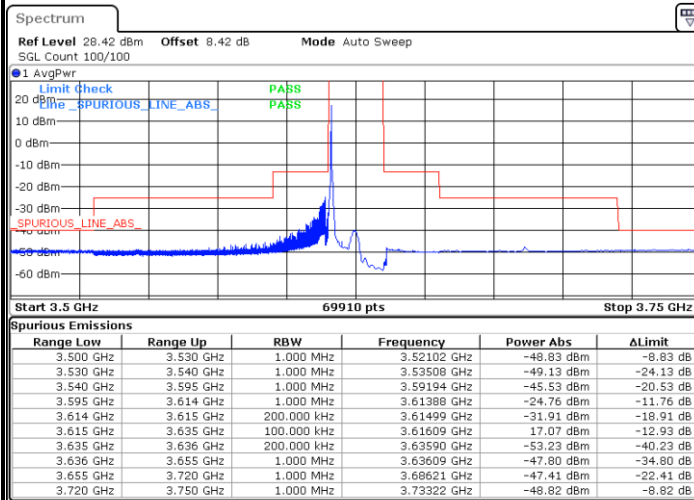
Date: 8.SEP.2020 04:02:18



LTE Band 48 / 20MHz

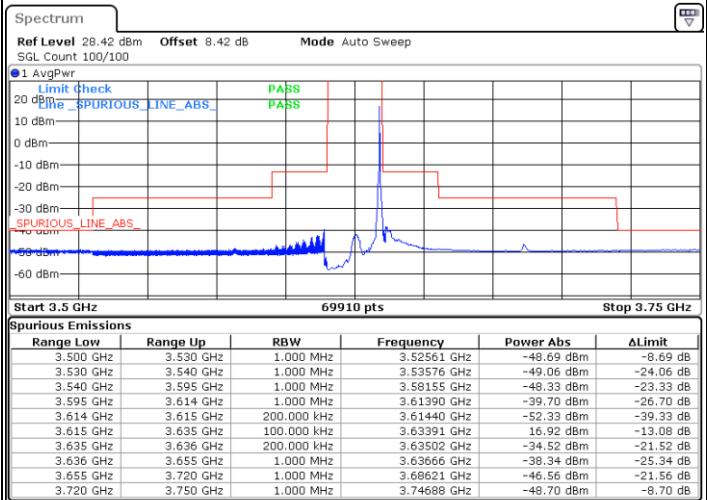
64QAM

Middle Channel / 1RB0



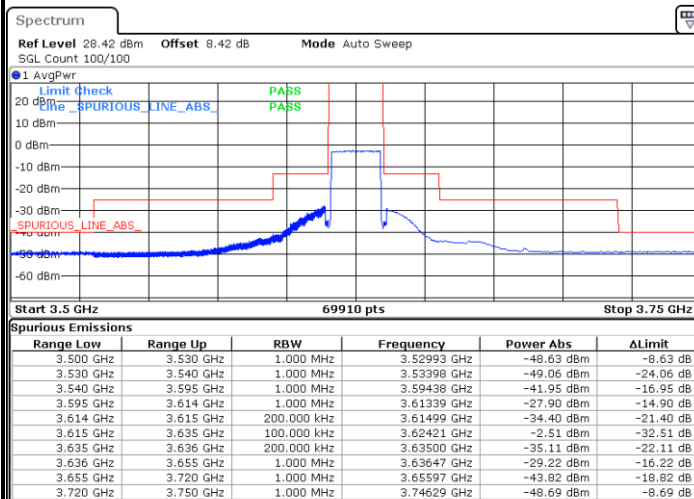
Date: 8.SEP.2020 04:27:26

Middle Channel / 1RBmax



Date: 8.SEP.2020 04:16:38

Middle Channel / Full RB



Date: 8.SEP.2020 04:25:41

N/A

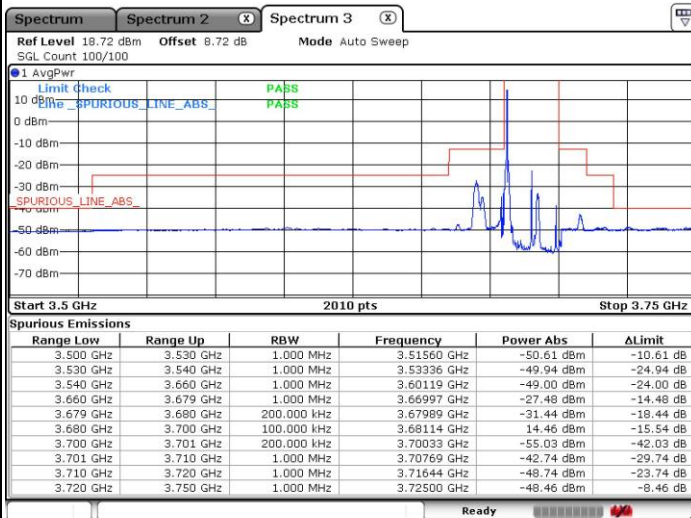


LTE Band 48 / 20MHz

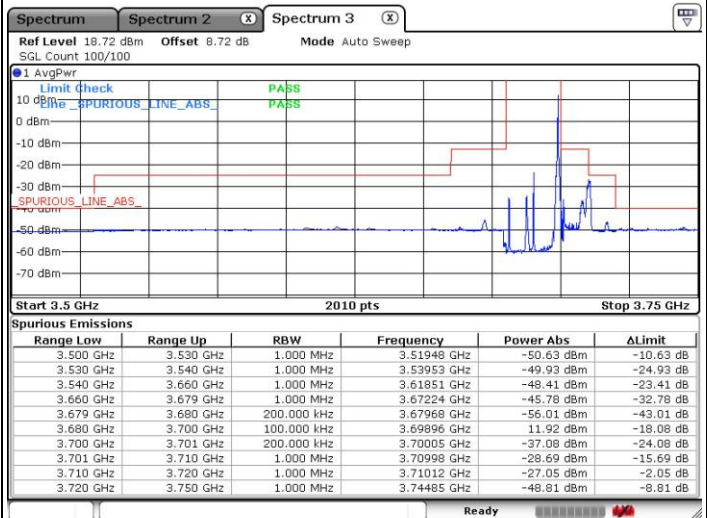
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



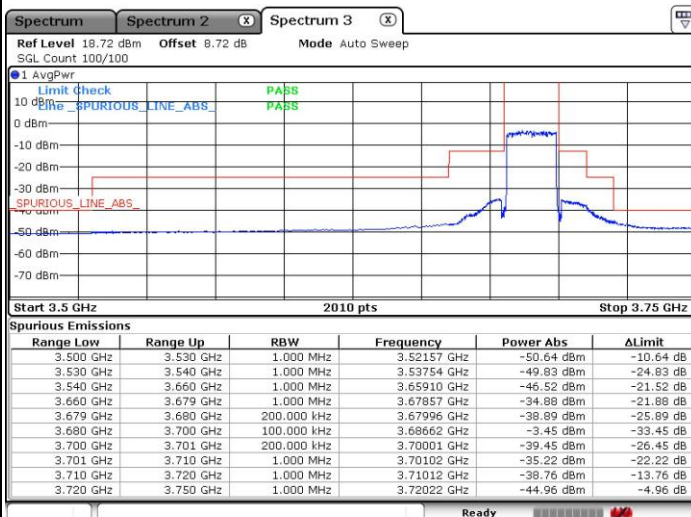
Date: 9 SEP 2020 20:19:55



Date: 9 SEP 2020 20:27:12

Highest Channel / Full RB

N/A



Date: 9 SEP 2020 20:19:02

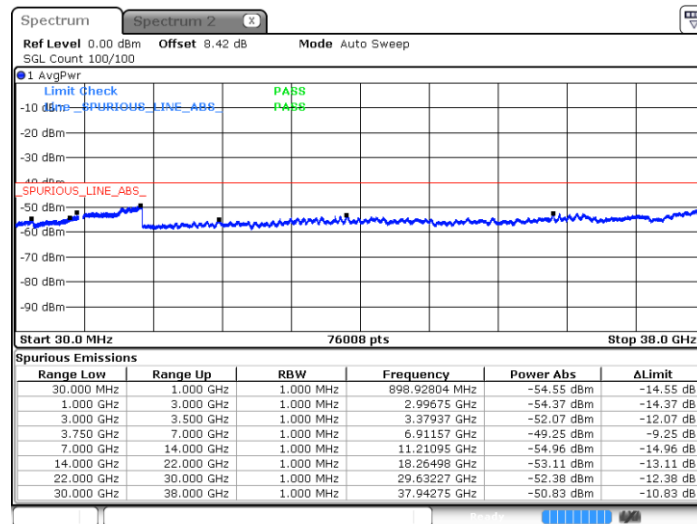


Conducted Spurious Emission

LTE Band 48 / 5MHz

QPSK

Lowest Channel / 1RB0

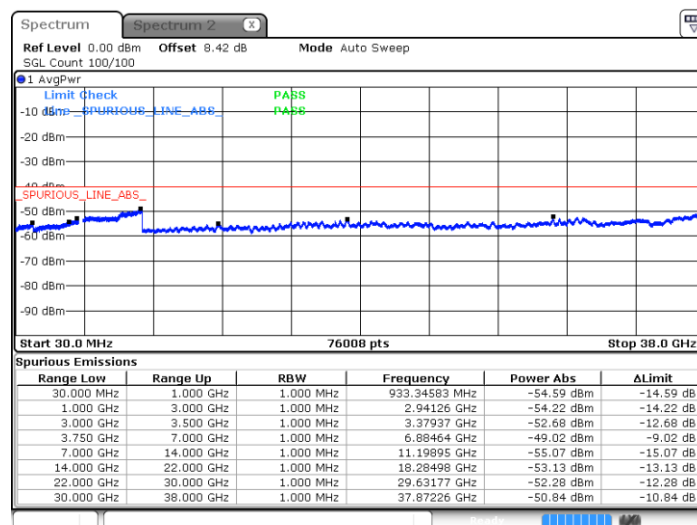


Date: 8 SEP 2020 16:24:53

LTE Band 48 / 5MHz

QPSK

Middle Channel / 1RB0



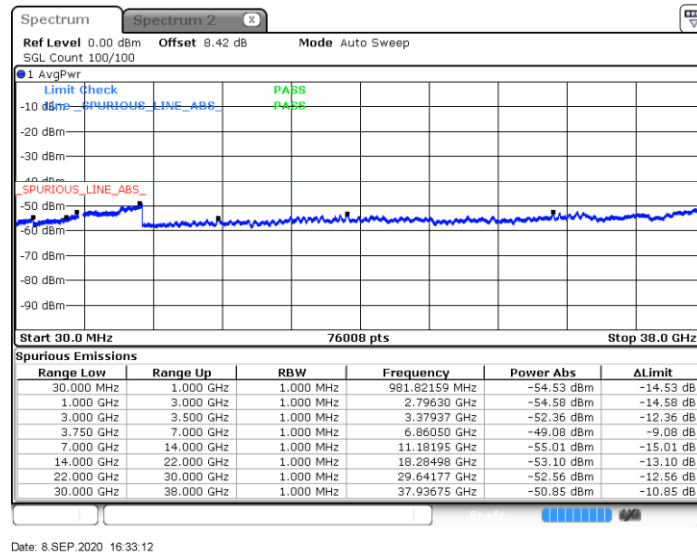
Date: 8 SEP 2020 16:31:35



LTE Band 48 / 5MHz

QPSK

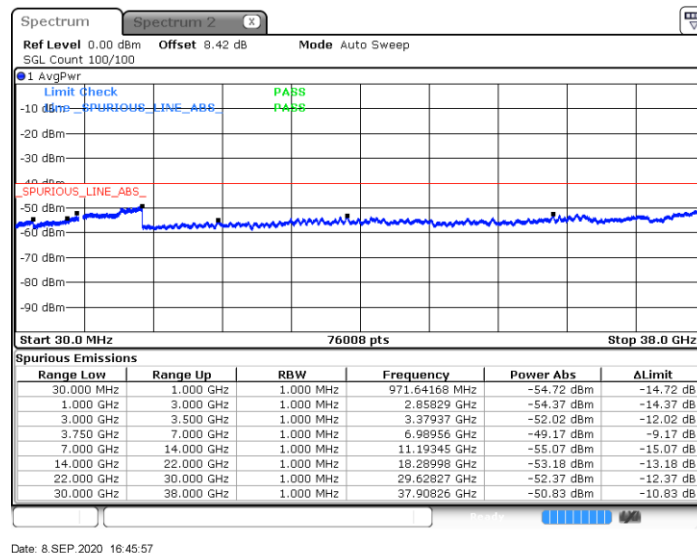
Highest Channel / 1RB0



LTE Band 48 / 10MHz

QPSK

Lowest Channel / 1RB0

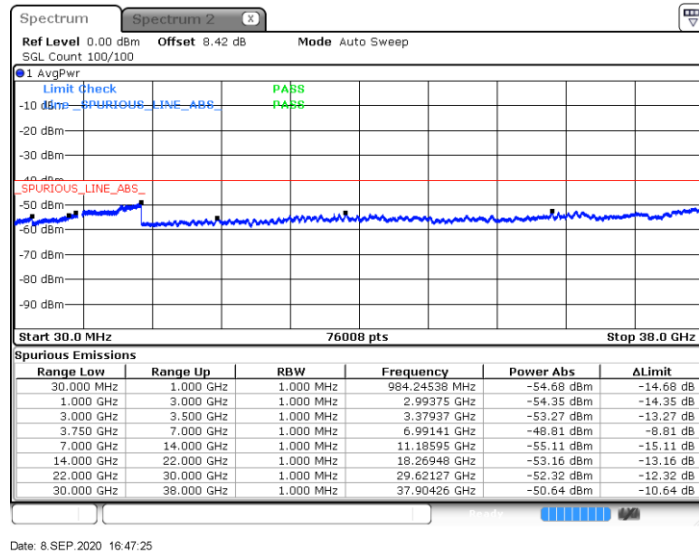




LTE Band 48 / 10MHz

QPSK

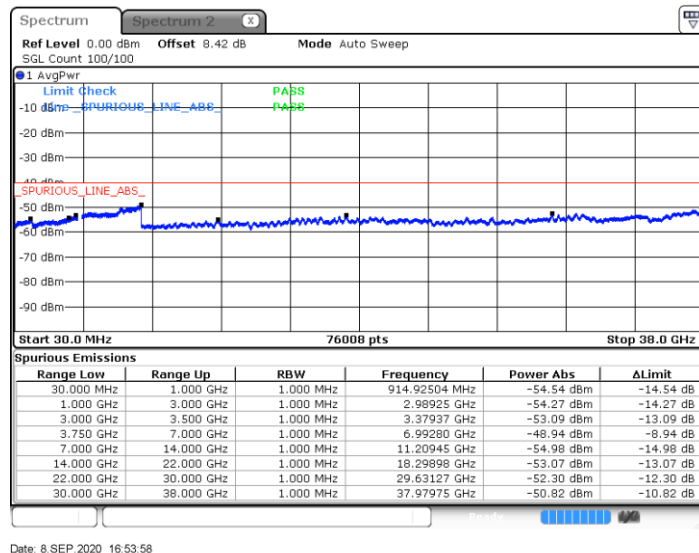
Middle Channel / 1RB0



LTE Band 48 / 10MHz

QPSK

Highest Channel / 1RB0

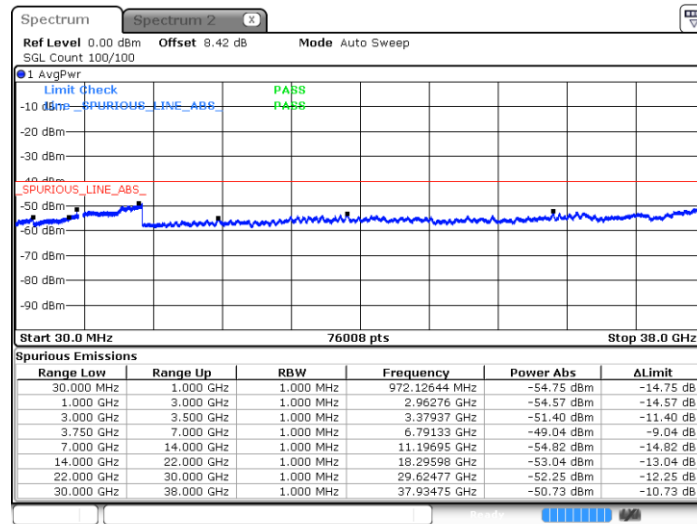




LTE Band 48 / 15MHz

QPSK

Lowest Channel / 1RB0

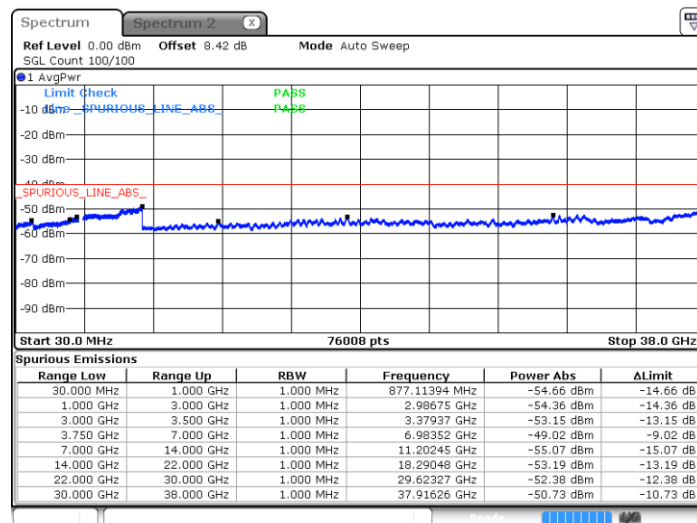


Date: 8 SEP 2020 17:10:13

LTE Band 48 / 15MHz

QPSK

Middle Channel / 1RB0



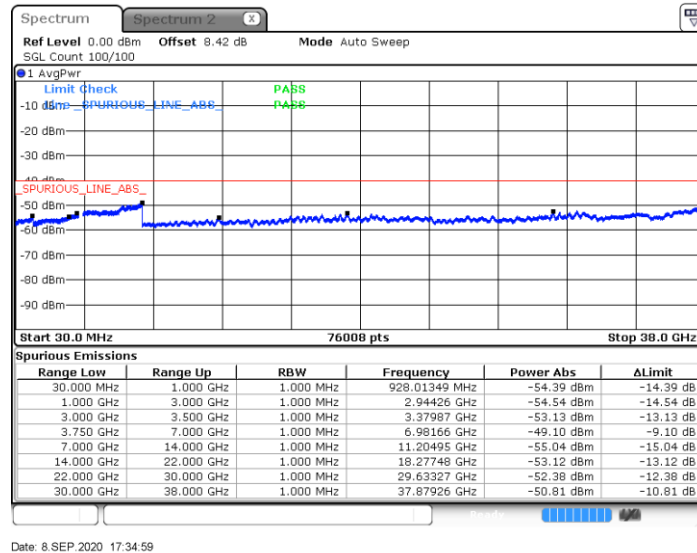
Date: 8 SEP 2020 17:26:37



LTE Band 48 / 15MHz

QPSK

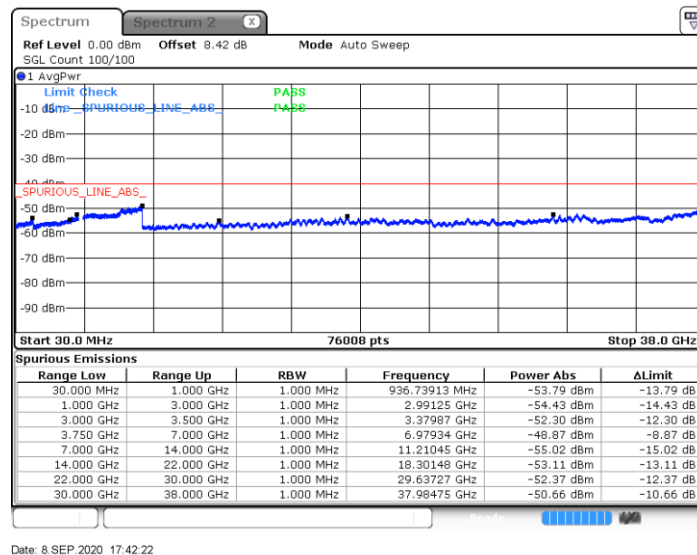
Highest Channel / 1RB0



LTE Band 48 / 20MHz

QPSK

Lowest Channel / 1RB0

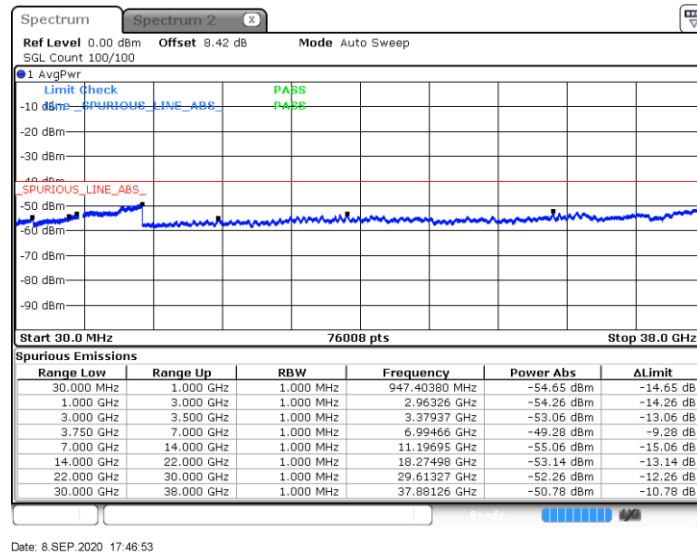




LTE Band 48 / 20MHz

QPSK

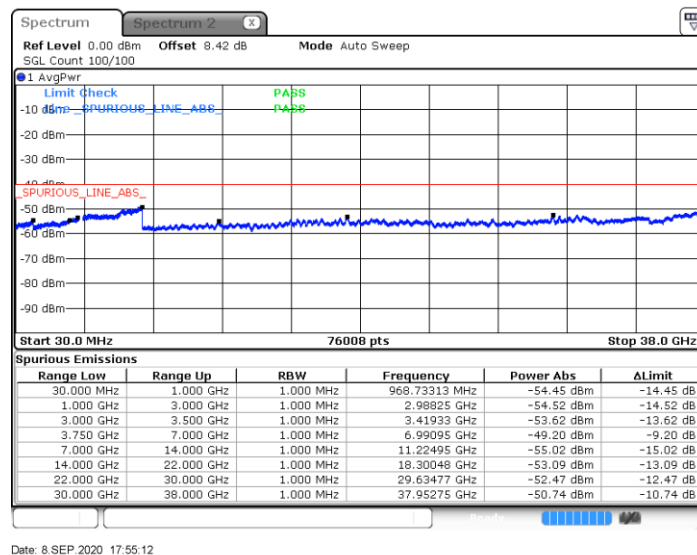
Middle Channel / 1RB0



LTE Band 48 / 20MHz

QPSK

Highest Channel / 1RB0

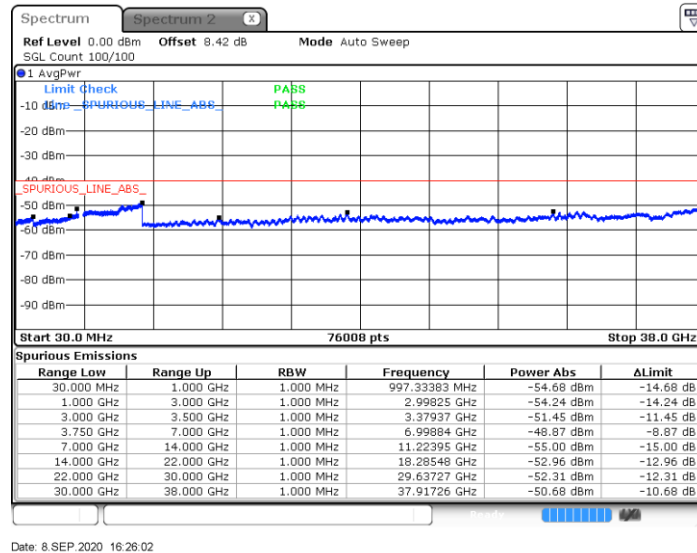




LTE Band 48 / 5MHz

16QAM

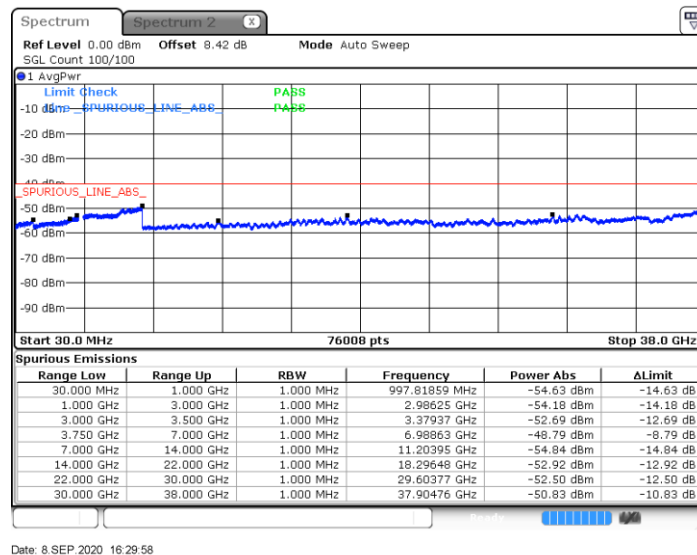
Lowest Channel / 1RB0



LTE Band 48 / 5MHz

16QAM

Middle Channel / 1RB0

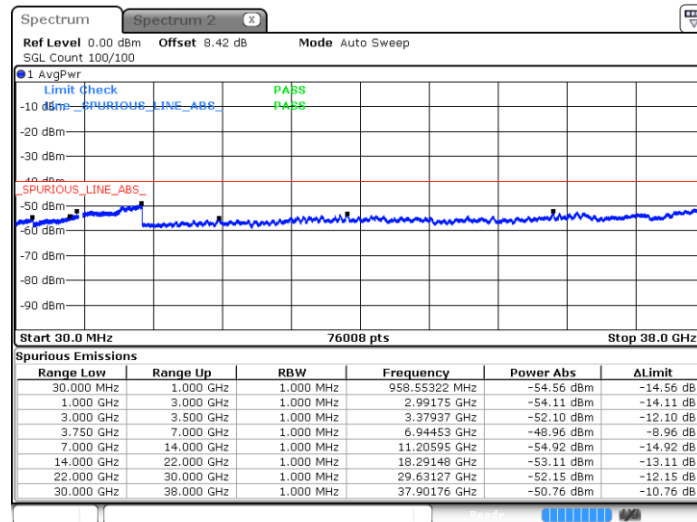




LTE Band 48 / 5MHz

16QAM

Highest Channel / 1RB0

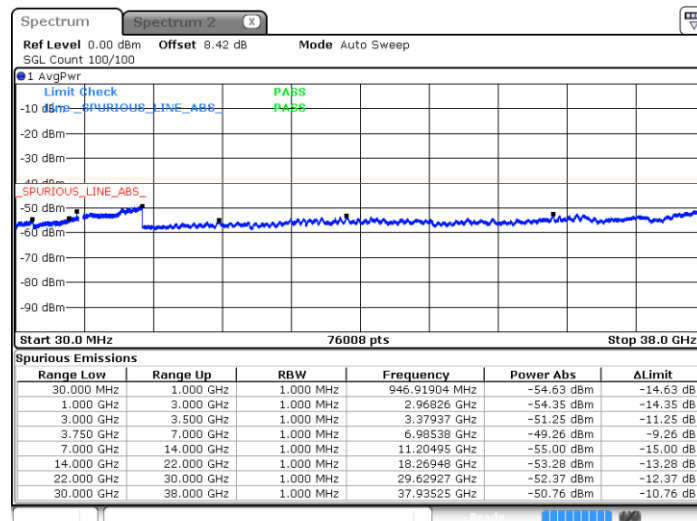


Date: 8 SEP 2020 16:34:42

LTE Band 48 / 10MHz

16QAM

Lowest Channel / 1RB0



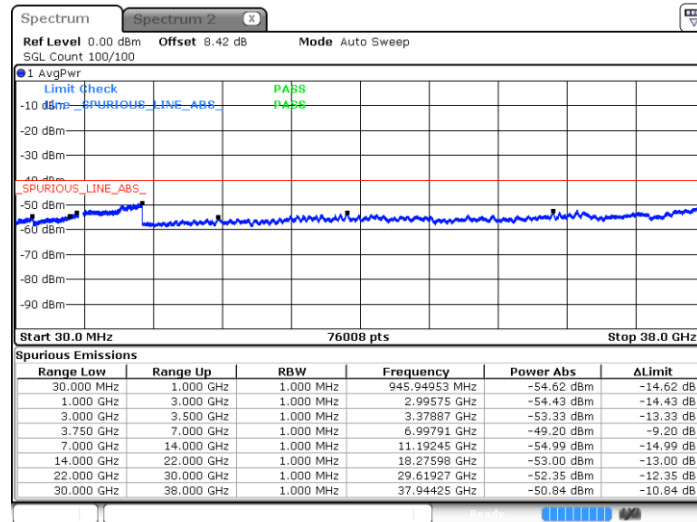
Date: 8 SEP 2020 16:44:51



LTE Band 48 / 10MHz

16QAM

Middle Channel / 1RB0

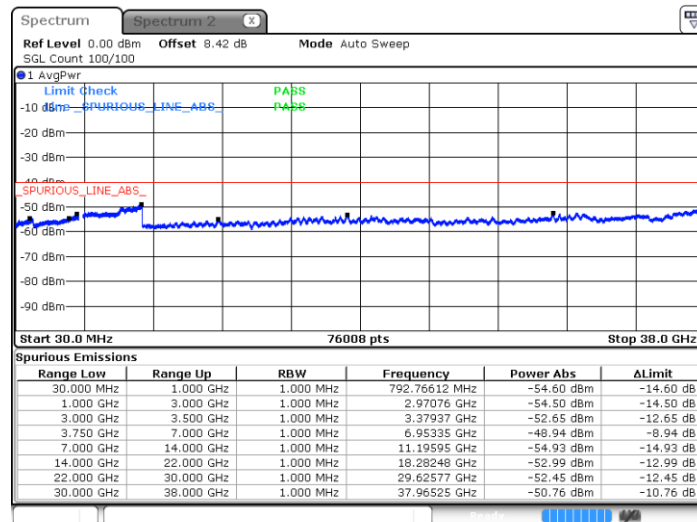


Date: 8 SEP 2020 16:48:37

LTE Band 48 / 10MHz

16QAM

Highest Channel / 1RB0



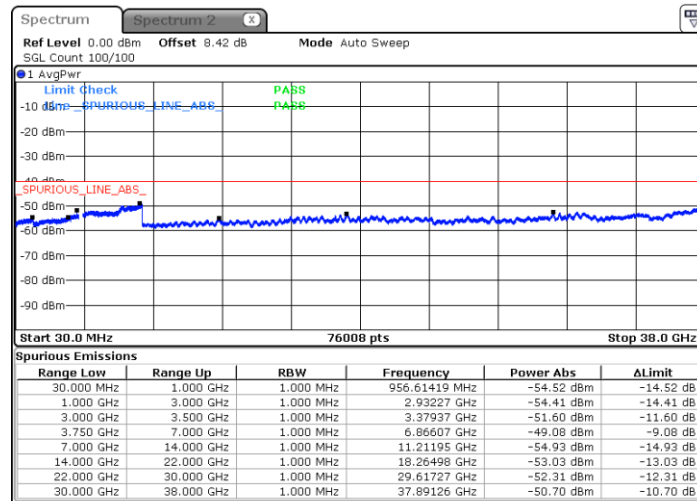
Date: 8 SEP 2020 16:52:38



LTE Band 48 / 15MHz

16QAM

Lowest Channel / 1RB0

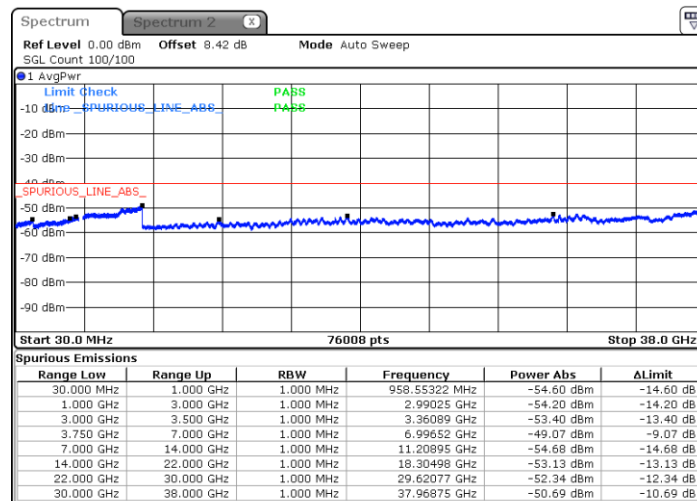


Date: 8 SEP 2020 17:11:22

LTE Band 48 / 15MHz

16QAM

Middle Channel / 1RB0



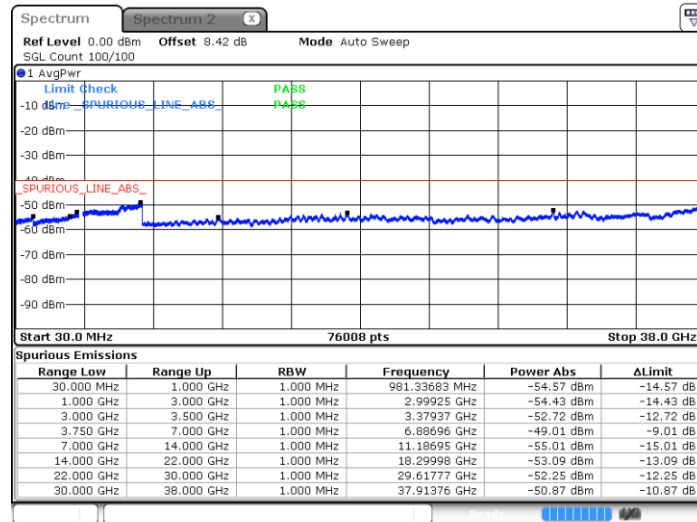
Date: 8 SEP 2020 17:25:02



LTE Band 48 / 15MHz

16QAM

Highest Channel / 1RB0

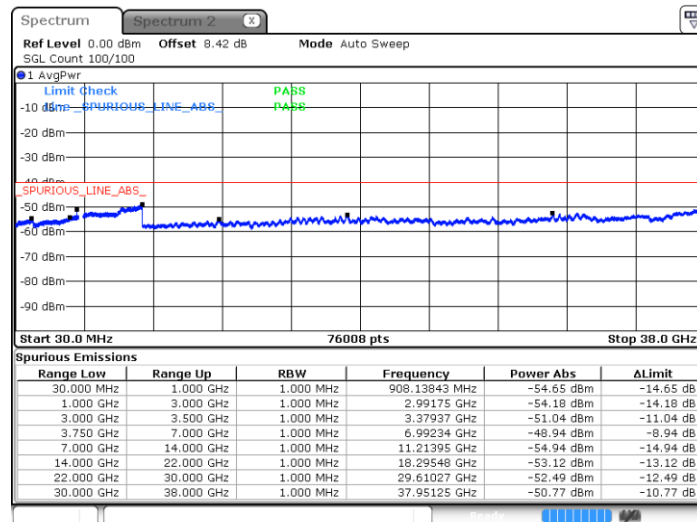


Date: 8 SEP 2020 17:36:45

LTE Band 48 / 20MHz

16QAM

Lowest Channel / 1RB0



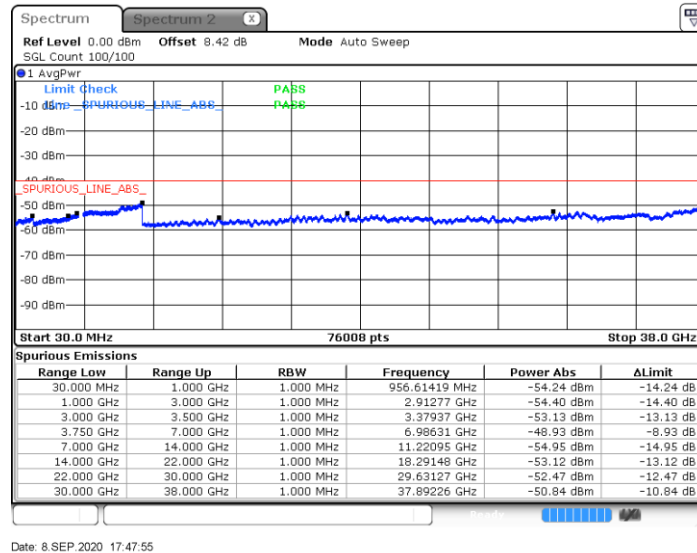
Date: 8 SEP 2020 17:41:22



LTE Band 48 / 20MHz

16QAM

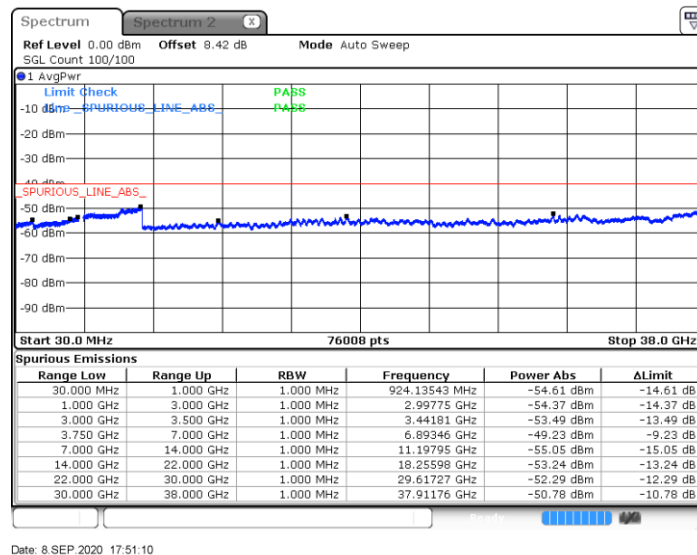
Middle Channel / 1RB0



LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

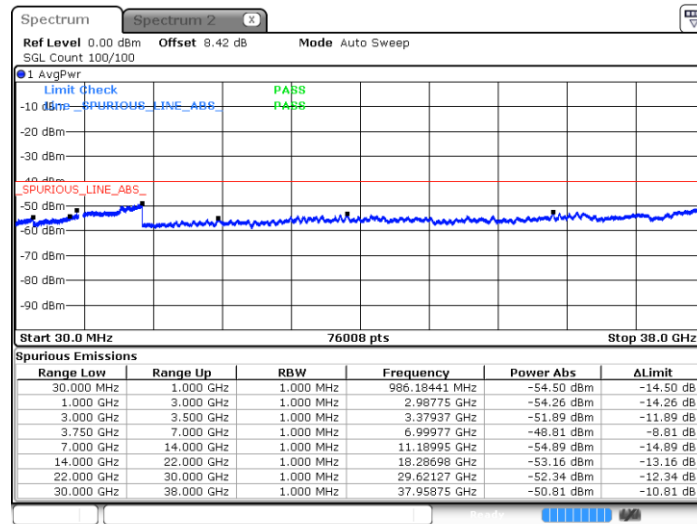




LTE Band 48 / 5MHz

64QAM

Lowest Channel / 1RB0

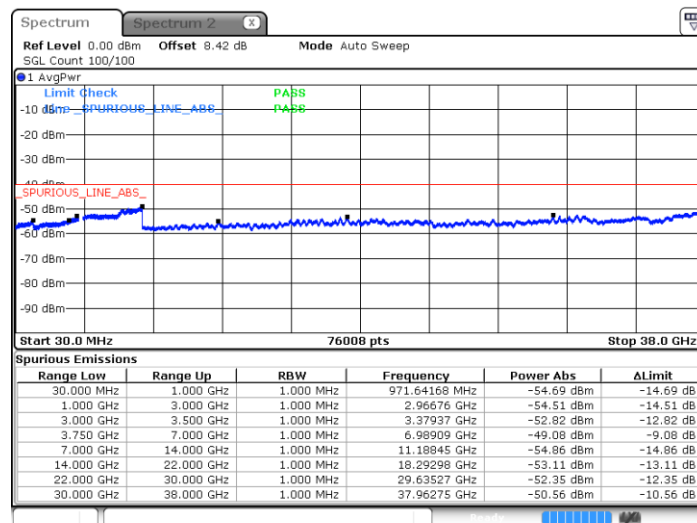


Date: 8 SEP 2020 16:27:18

LTE Band 48 / 5MHz

64QAM

Middle Channel / 1RB0



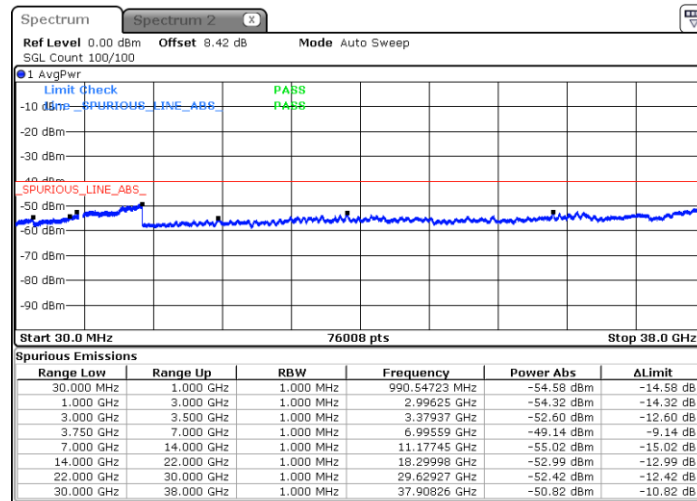
Date: 8 SEP 2020 16:28:42



LTE Band 48 / 5MHz

64QAM

Highest Channel / 1RB0

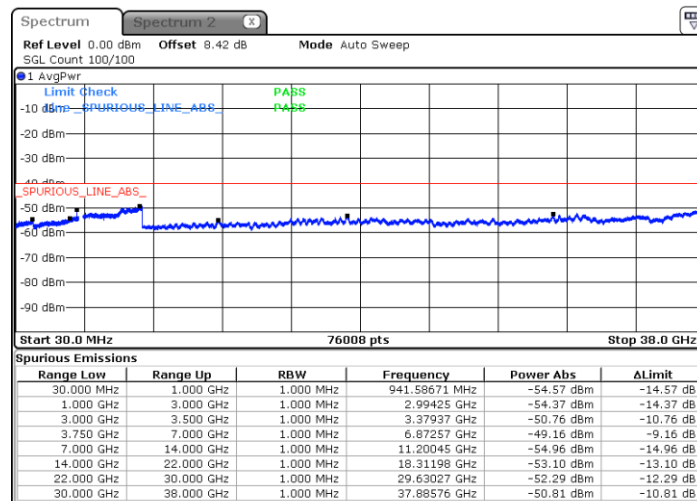


Date: 8 SEP 2020 16:36:05

LTE Band 48 / 10MHz

64QAM

Lowest Channel / 1RB0



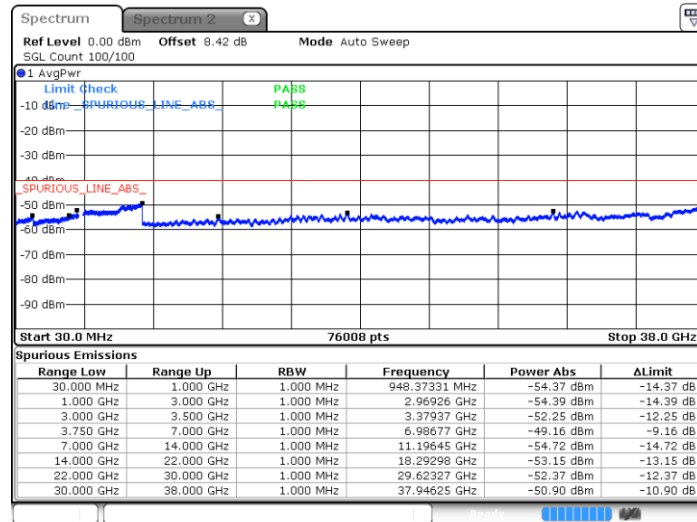
Date: 8 SEP 2020 16:42:35



LTE Band 48 / 10MHz

64QAM

Middle Channel / 1RB0

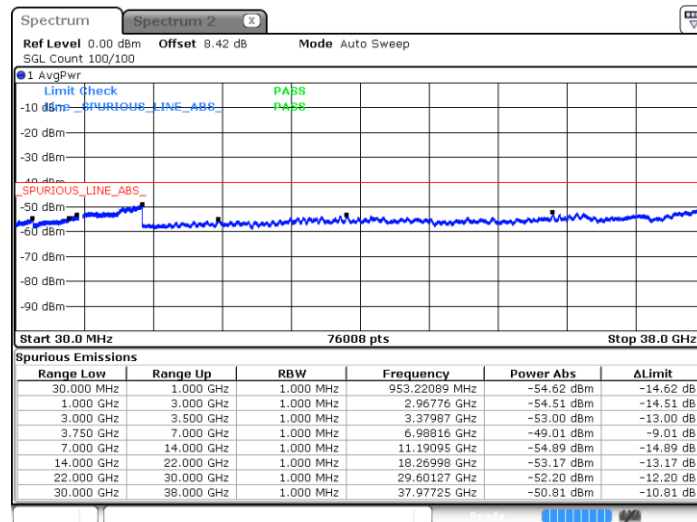


Date: 8 SEP 2020 16:50:02

LTE Band 48 / 10MHz

64QAM

Highest Channel / 1RB0



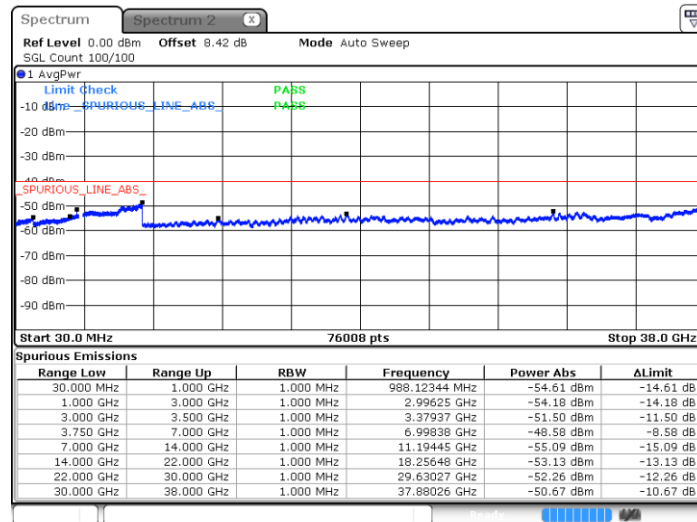
Date: 8 SEP 2020 16:51:23



LTE Band 48 / 15MHz

64QAM

Lowest Channel / 1RB0

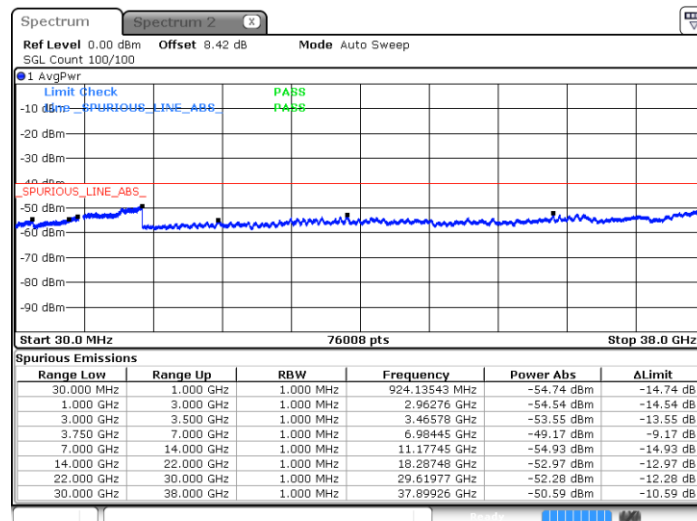


Date: 8 SEP 2020 17:12:29

LTE Band 48 / 15MHz

64QAM

Middle Channel / 1RB0



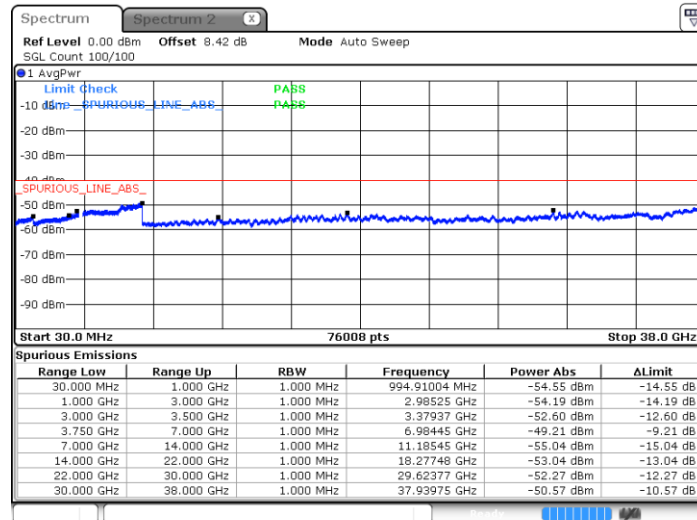
Date: 8 SEP 2020 17:14:37



LTE Band 48 / 15MHz

64QAM

Highest Channel / 1RB0

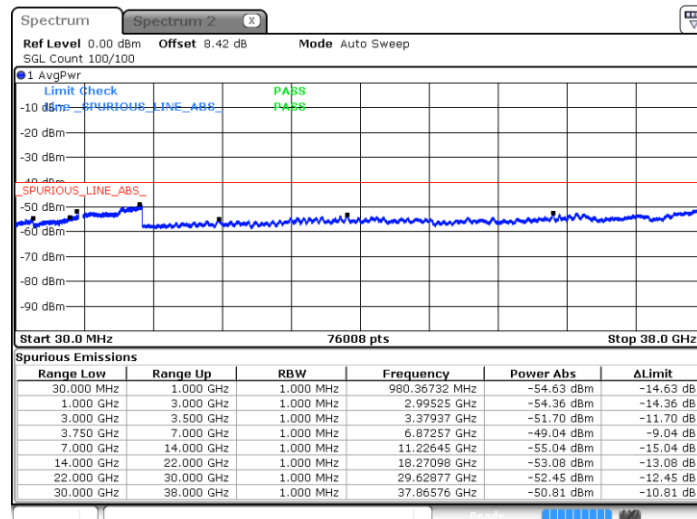


Date: 8 SEP 2020 17:38:42

LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0



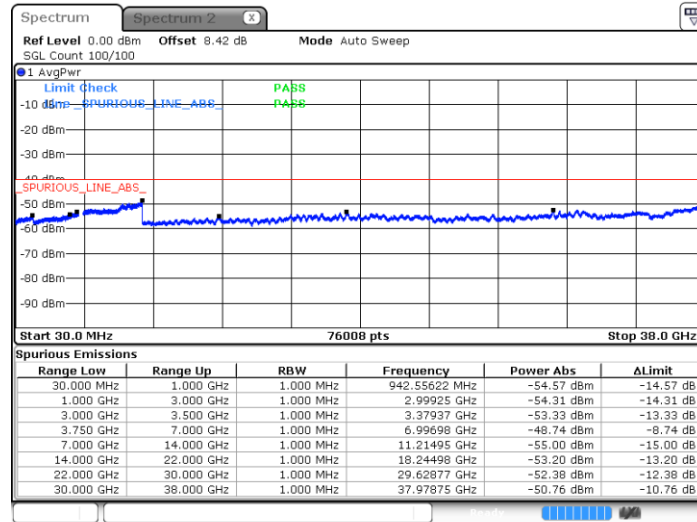
Date: 8 SEP 2020 17:40:15



LTE Band 48 / 20MHz

64QAM

Middle Channel / 1RB0

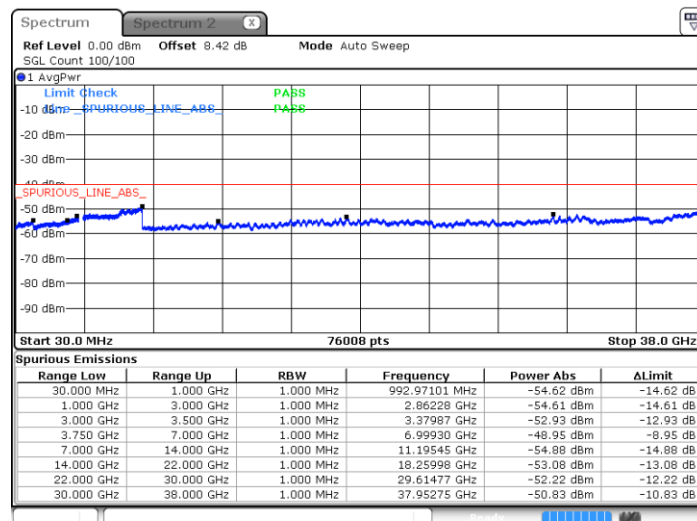


Date: 8 SEP 2020 17:48:57

LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0



Date: 8 SEP 2020 17:50:04

Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0042	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 48 / 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	7200	-55.95	-40	-15.95	-67.41	2.84	14.30	H
	10800	-49.46	-40	-9.46	-59.40	3.49	13.43	H
	14400	-53.28	-40	-13.28	-63.52	3.85	14.09	H
	7200	-61.09	-40	-21.09	-72.55	2.84	14.30	V
	10800	-50.07	-40	-10.07	-60.01	3.49	13.43	V
	14400	-54.63	-40	-14.63	-64.87	3.85	14.09	V

Remark:

1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
2. Pre-scanned in three orthogonal panels, X, Y, Z for Antennas. The worst cases were recorded in this report.