

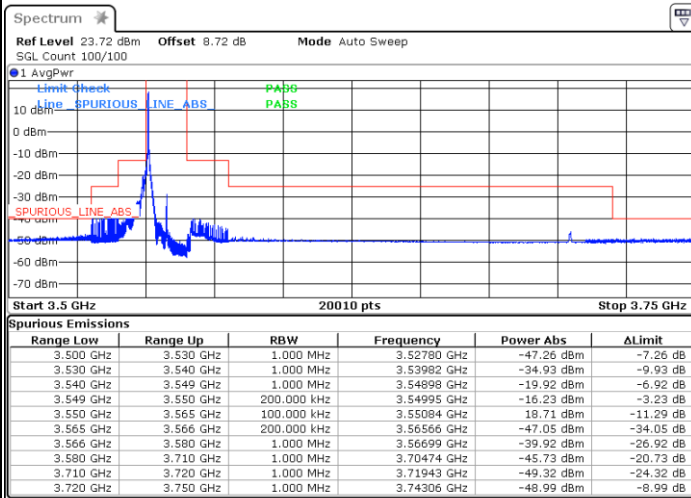


LTE Band 48 / 15MHz

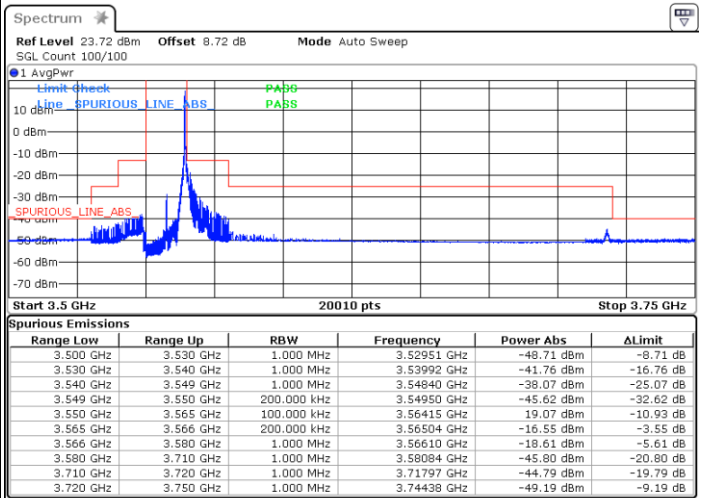
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



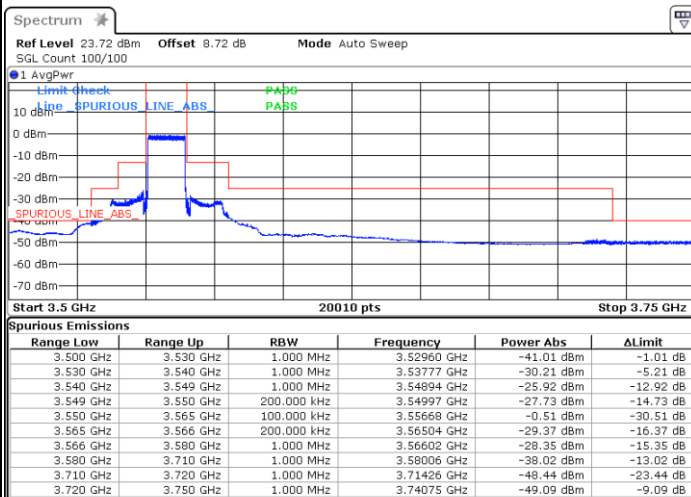
Date: 3 FEB 2021 18:56:54



Date: 3 FEB 2021 18:58:48

Lowest Channel / Full RB

N/A



Date: 3 FEB 2021 18:48:50

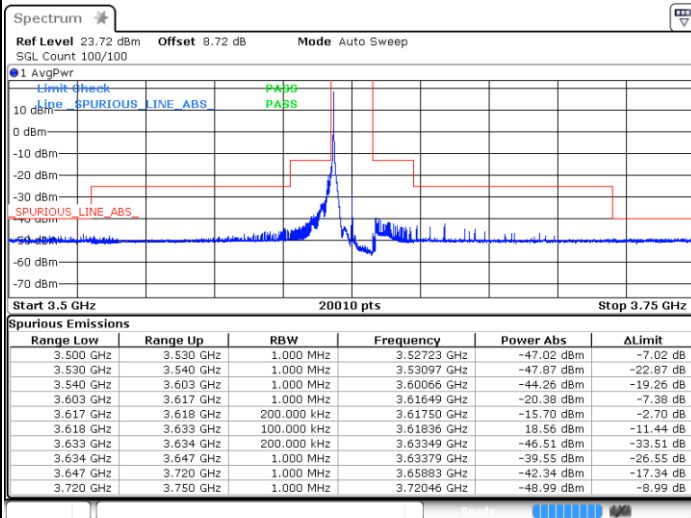


LTE Band 48 / 15MHz

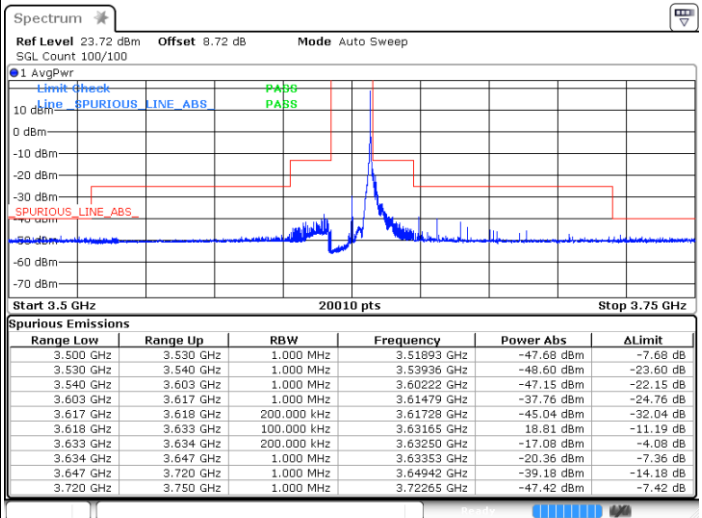
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



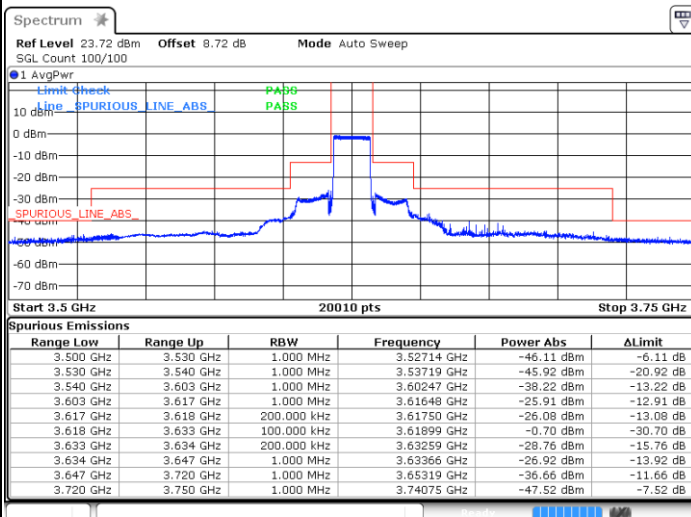
Date: 3.FEB.2021 19:10:16



Date: 3.FEB.2021 19:04:13

Middle Channel / Full RB

N/A



Date: 3.FEB.2021 19:14:01

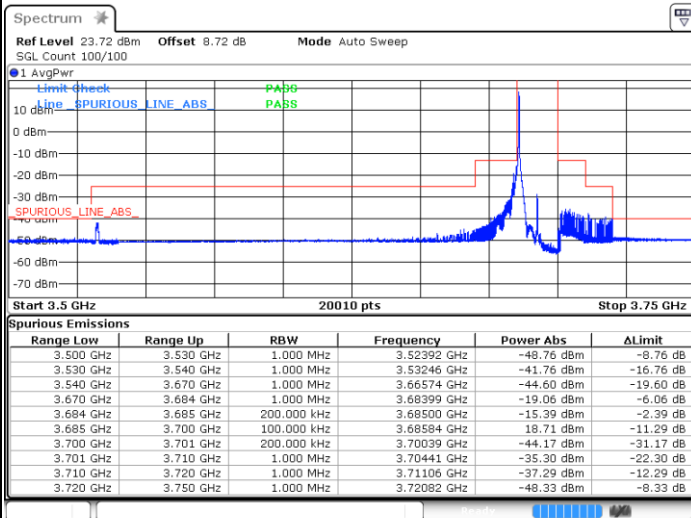


LTE Band 48 / 15MHz

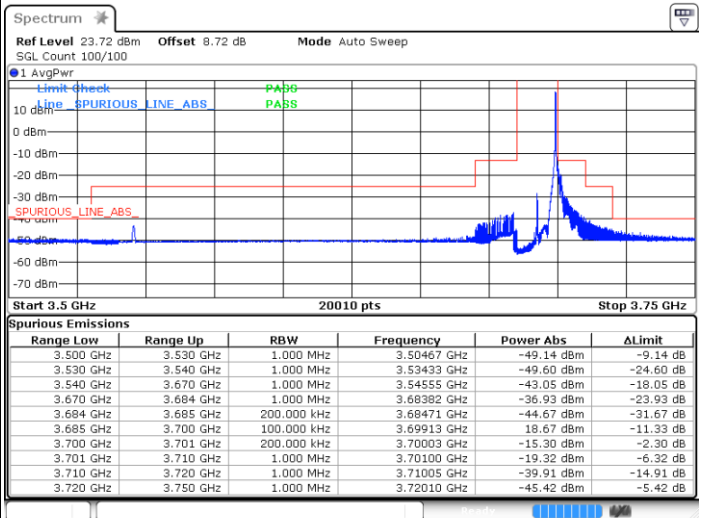
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



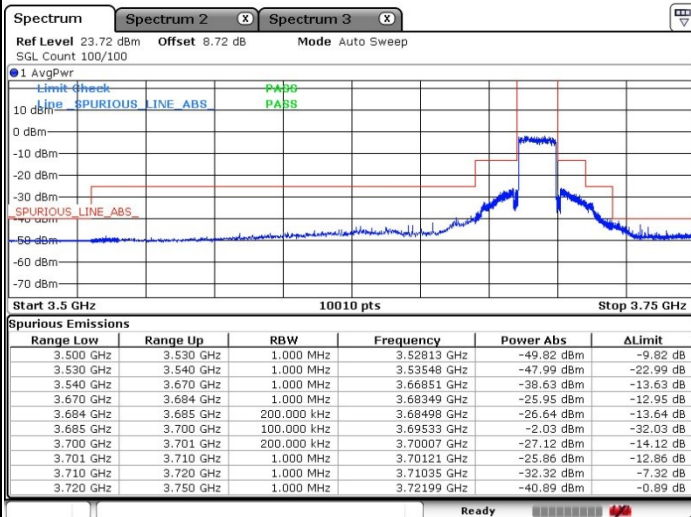
Date: 3 FEB 2021 19:26:50



Date: 3 FEB 2021 19:37:32

Highest Channel / Full RB

N/A



Date: 4 FEB 2021 10:54:53

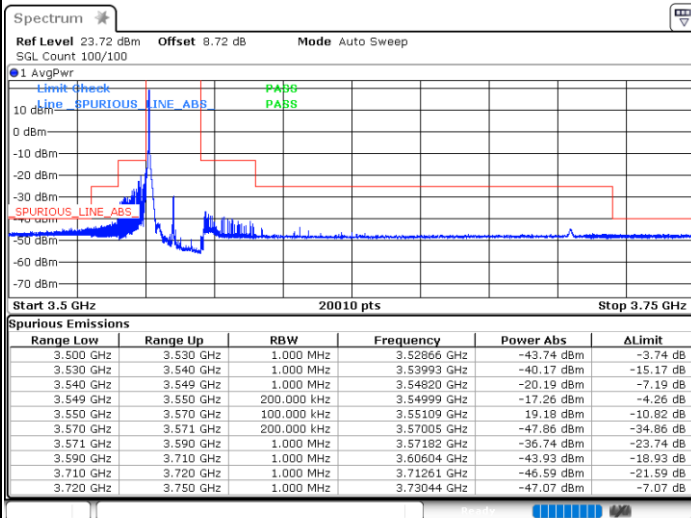


LTE Band 48 / 20MHz

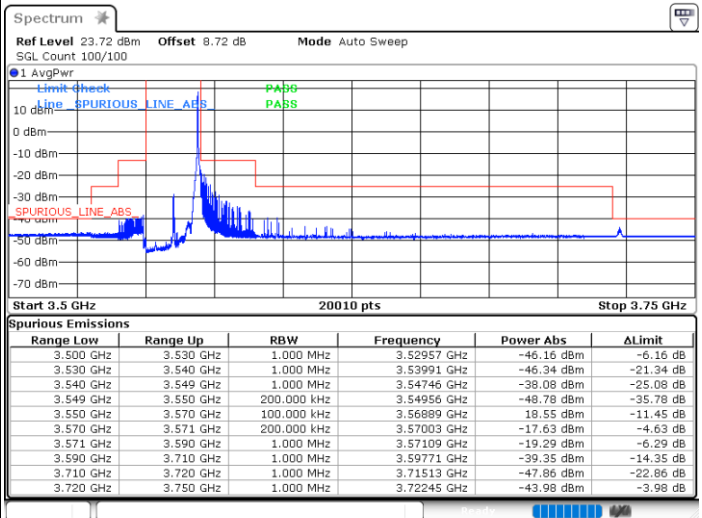
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



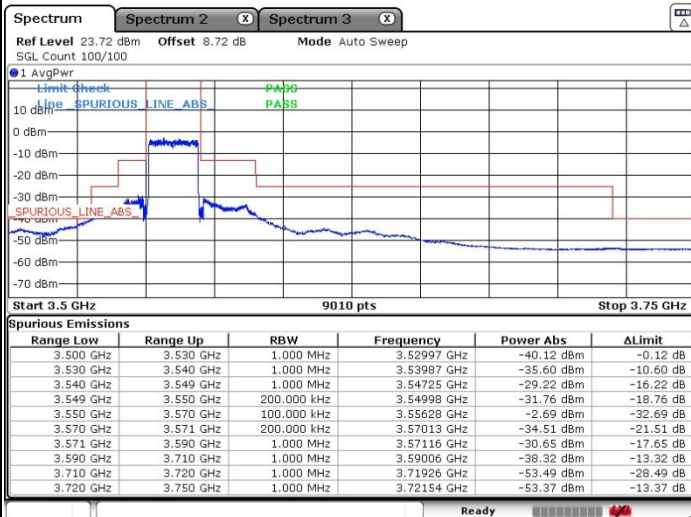
Date: 3.FEB.2021 12:41:38



Date: 3.FEB.2021 13:53:33

Lowest Channel / Full RB

N/A



Date: 4 FEB 2021 10:41:15

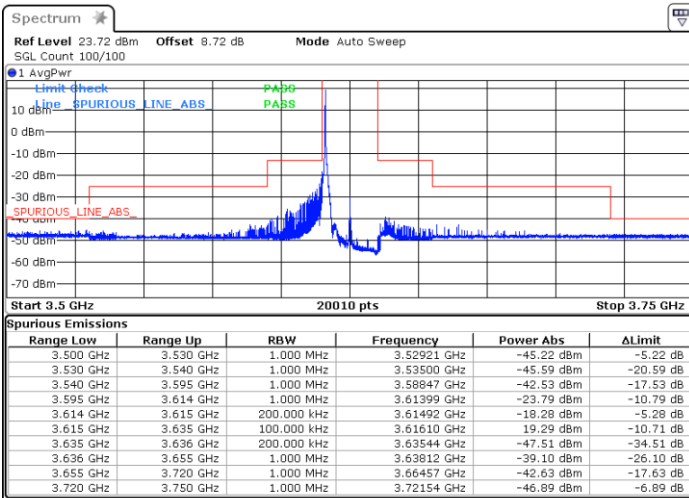


LTE Band 48 / 20MHz

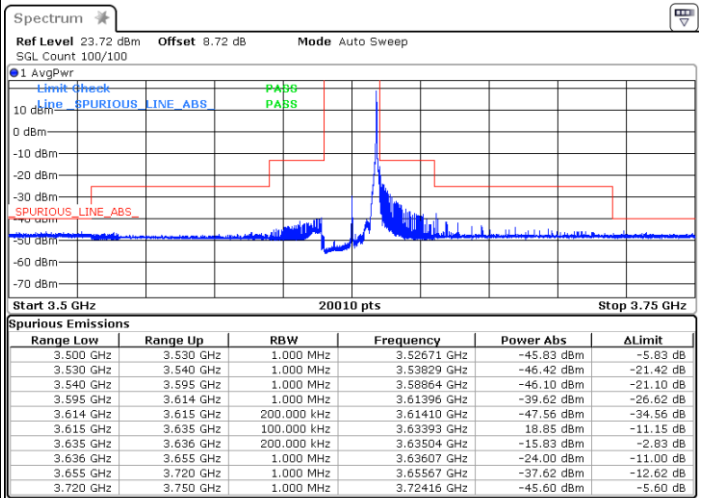
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



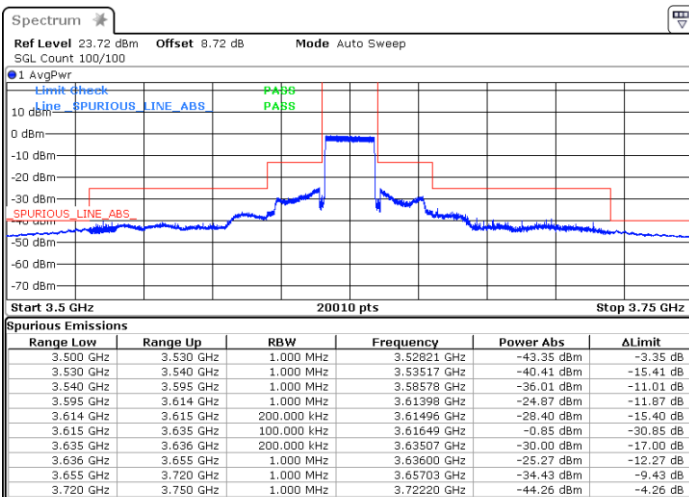
Date: 3.FEB.2021 13:16:11



Date: 3.FEB.2021 13:18:55

Middle Channel / Full RB

N/A



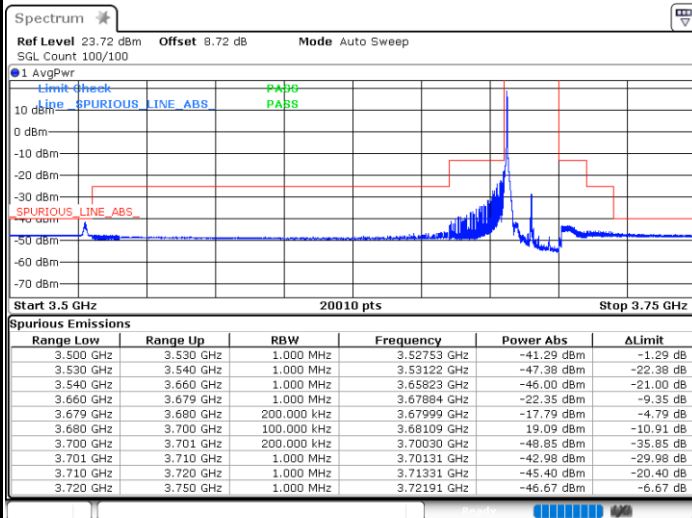
Date: 3.FEB.2021 12:57:00



LTE Band 48 / 20MHz

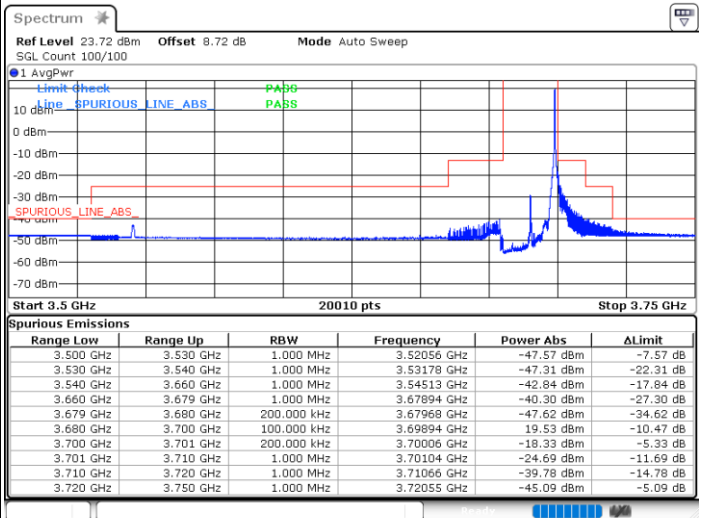
QPSK

Highest Channel / 1RB0



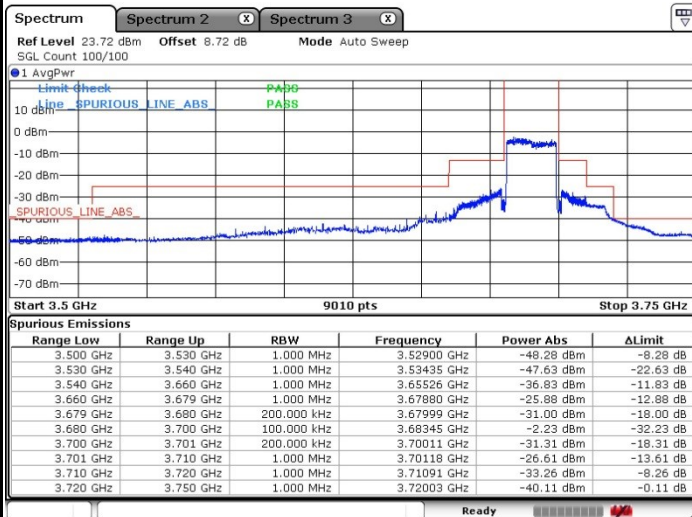
Date: 3.FEB.2021 13:32:44

Highest Channel / 1RBmax



Date: 3.FEB.2021 13:27:13

Highest Channel / Full RB



Date: 4 FEB 2021 10:49:48

N/A

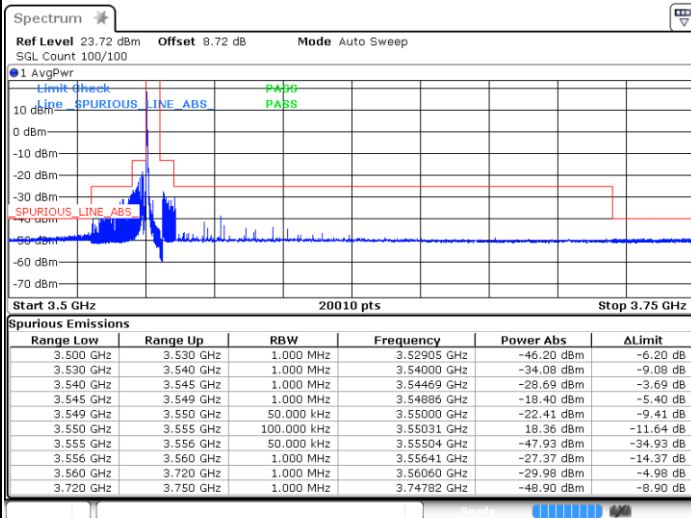


LTE Band 48 / 5MHz

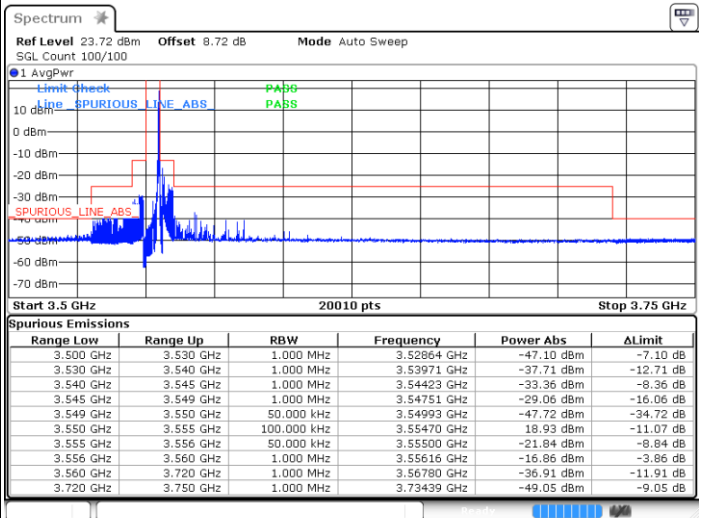
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



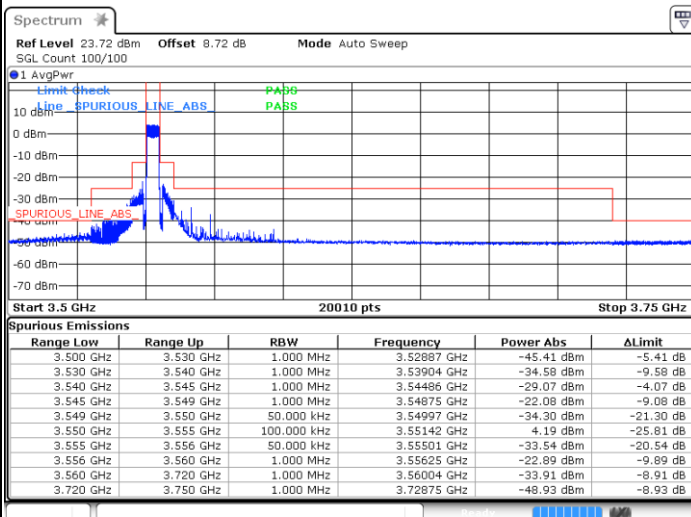
Date: 3 FEB 2021 16:40:34



Date: 3 FEB 2021 16:35:17

Lowest Channel / Full RB

N/A



Date: 3 FEB 2021 16:48:25

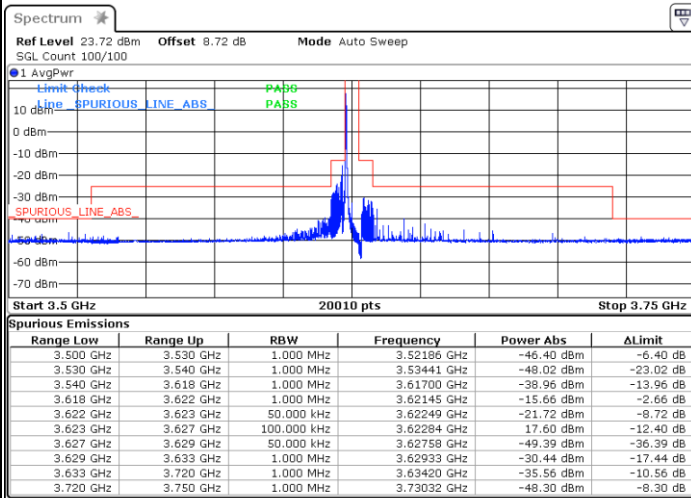


LTE Band 48 / 5MHz

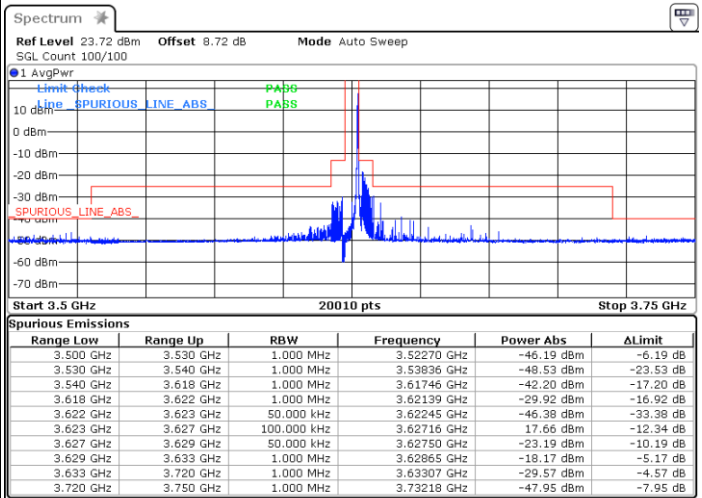
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



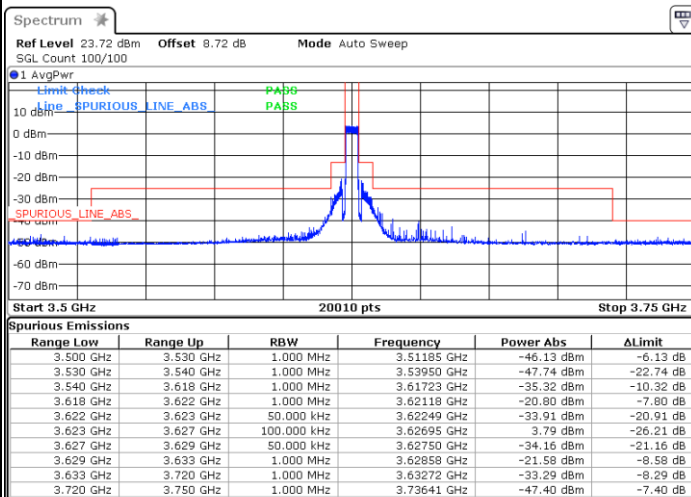
Date: 3 FEB 2021 16:54:50



Date: 3 FEB 2021 16:58:31

Middle Channel / Full RB

N/A



Date: 3 FEB 2021 16:52:32

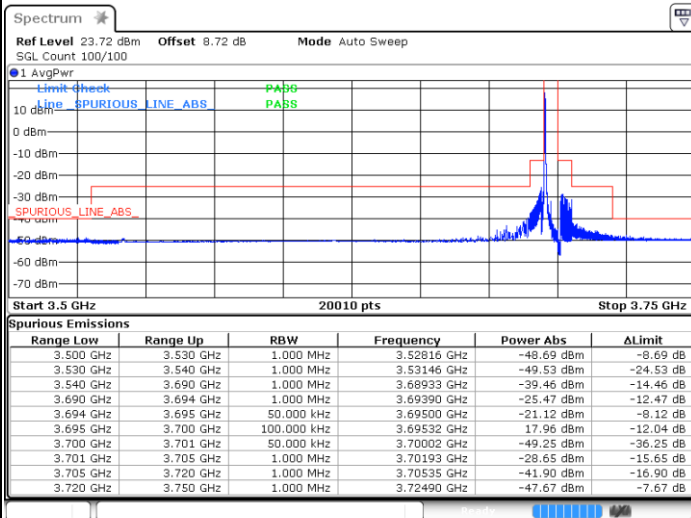


LTE Band 48 / 5MHz

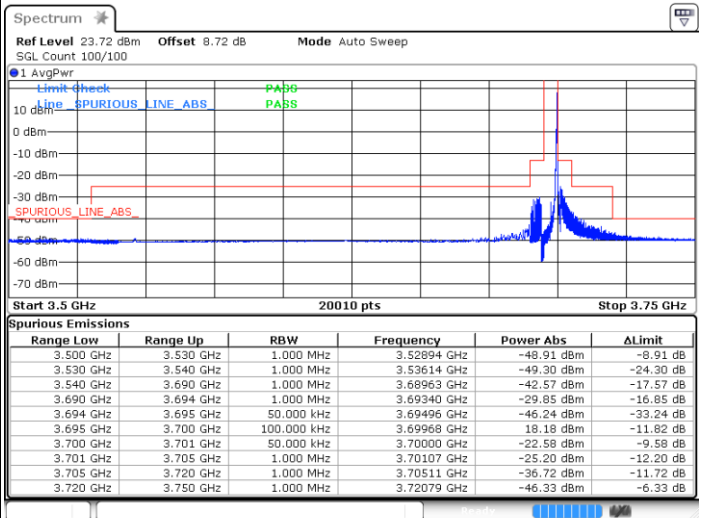
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



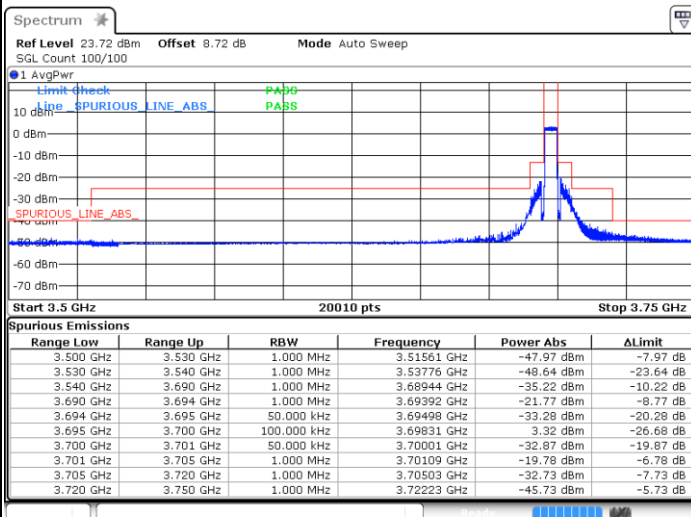
Date: 3.FEB.2021 17:04:50



Date: 3.FEB.2021 17:02:56

Highest Channel / Full RB

N/A



Date: 3.FEB.2021 17:10:17

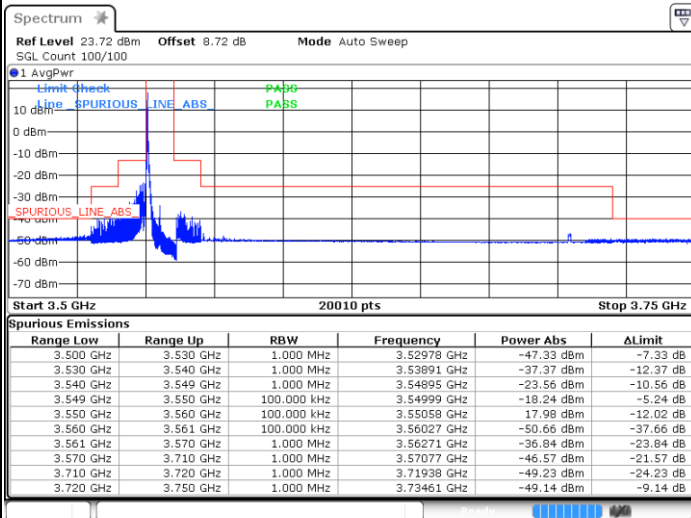


LTE Band 48 / 10MHz

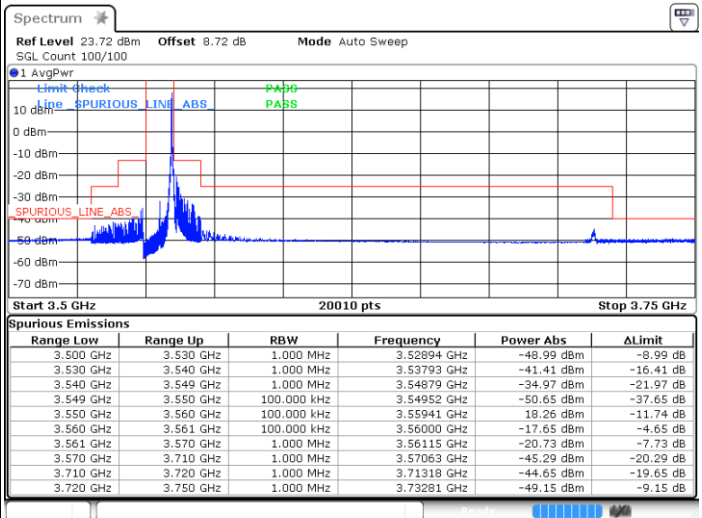
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



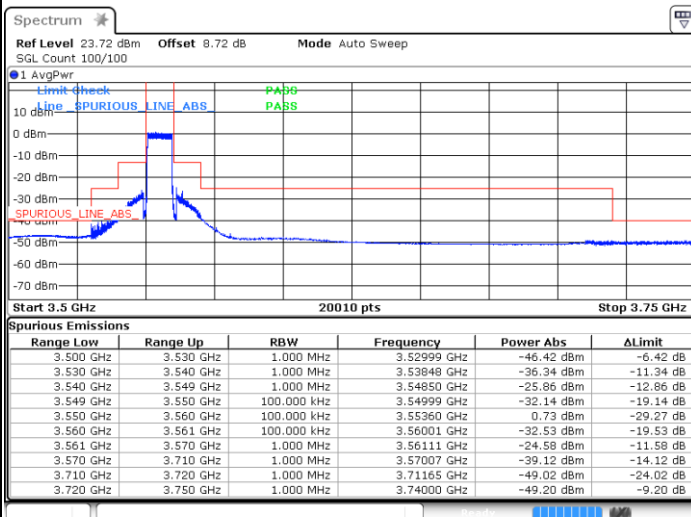
Date: 3.FEB.2021 17:19:57



Date: 3.FEB.2021 17:23:27

Lowest Channel / Full RB

N/A



Date: 3.FEB.2021 17:17:14

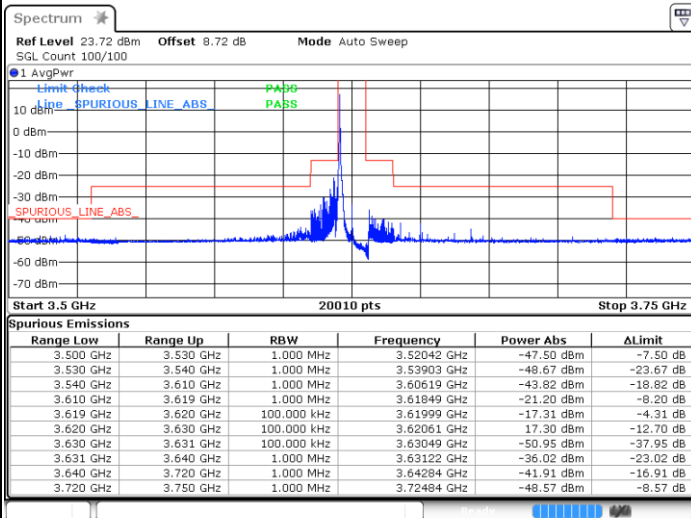


LTE Band 48 / 10MHz

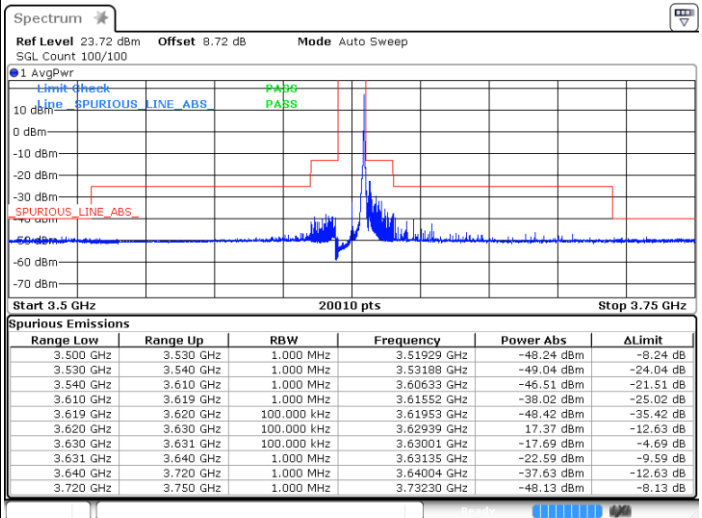
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



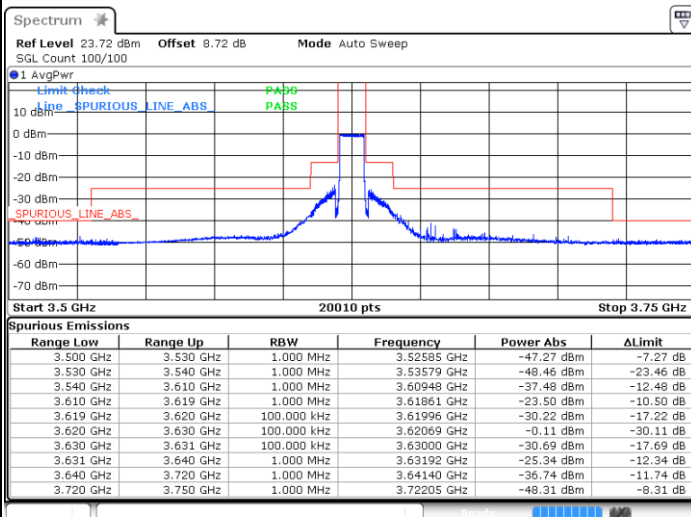
Date: 3.FEB.2021 17:28:10



Date: 3.FEB.2021 17:26:00

Middle Channel / Full RB

N/A



Date: 3.FEB.2021 17:30:58

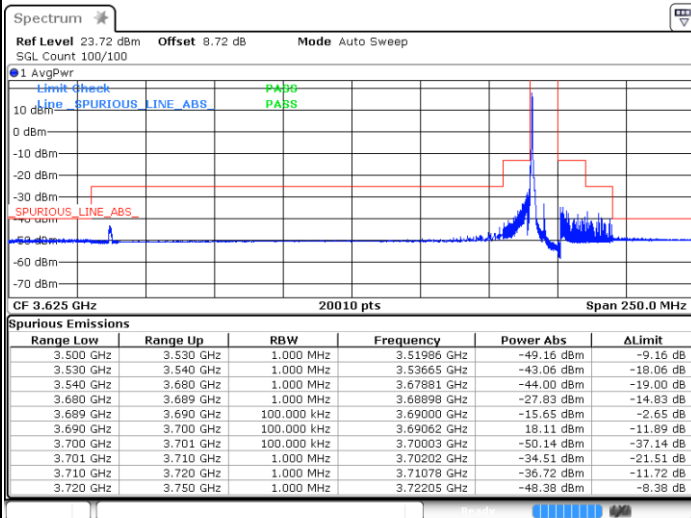


LTE Band 48 / 10MHz

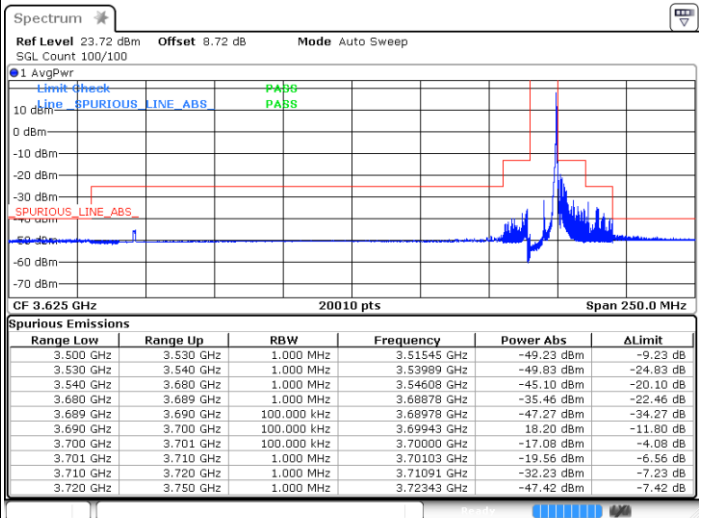
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



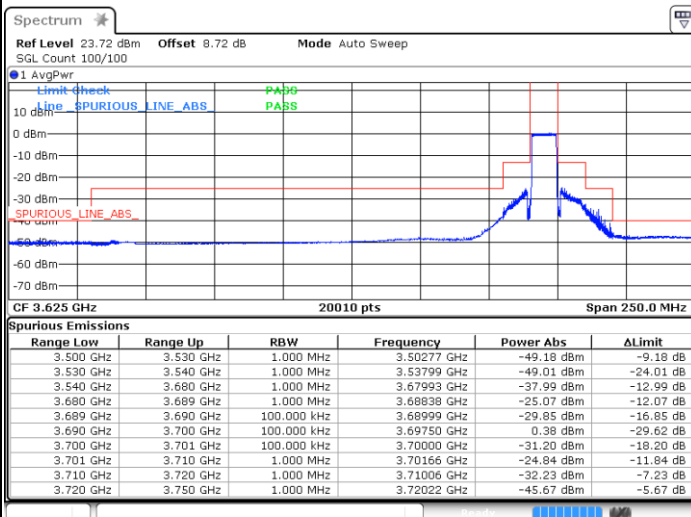
Date: 3 FEB 2021 18:09:59



Date: 3 FEB 2021 18:30:16

Highest Channel / Full RB

N/A



Date: 3 FEB 2021 18:08:19

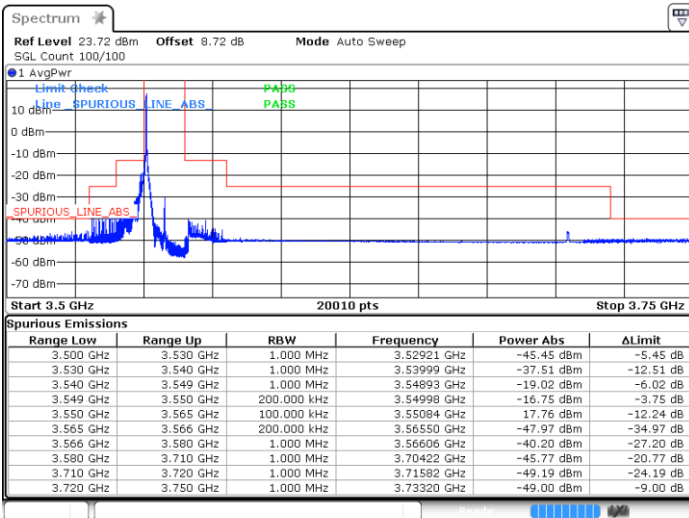


LTE Band 48 / 15MHz

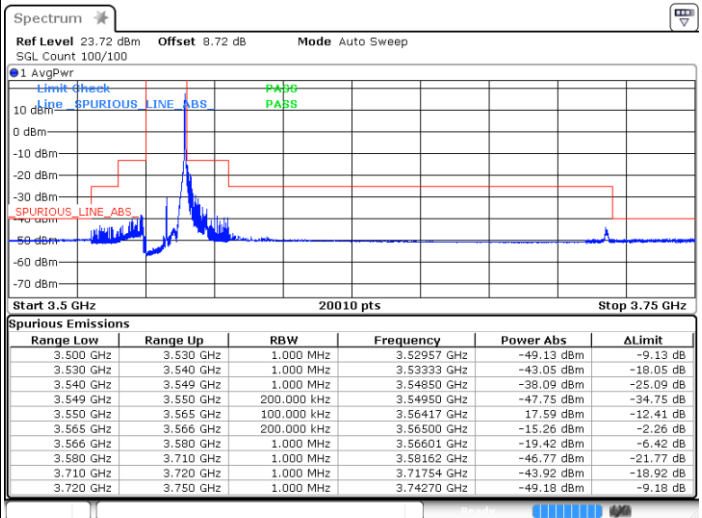
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



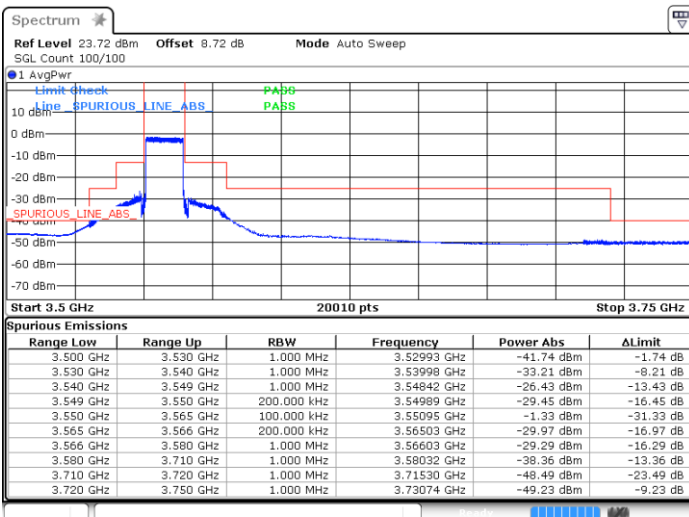
Date: 3.FEB.2021 18:55:00



Date: 3.FEB.2021 19:00:38

Lowest Channel / Full RB

N/A



Date: 3.FEB.2021 18:52:11

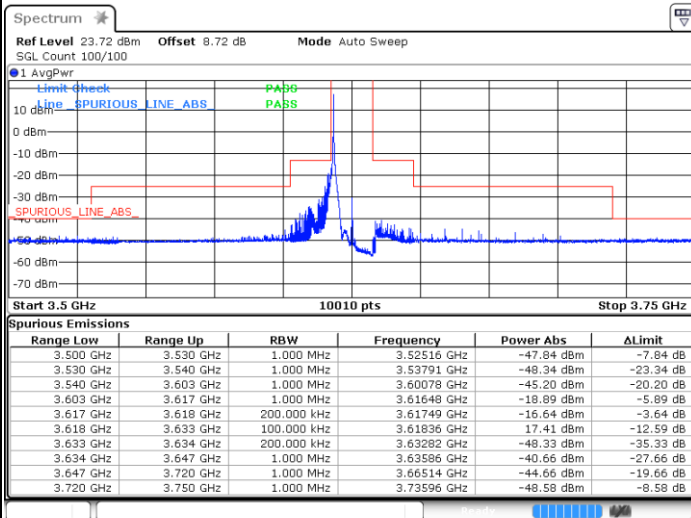


LTE Band 48 / 15MHz

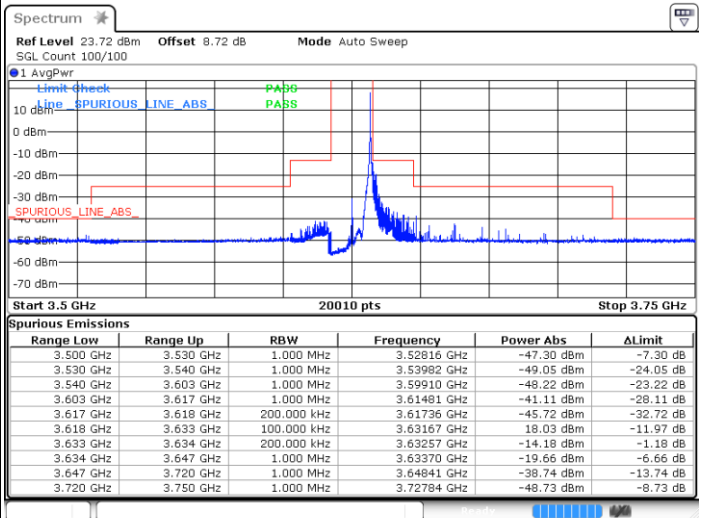
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



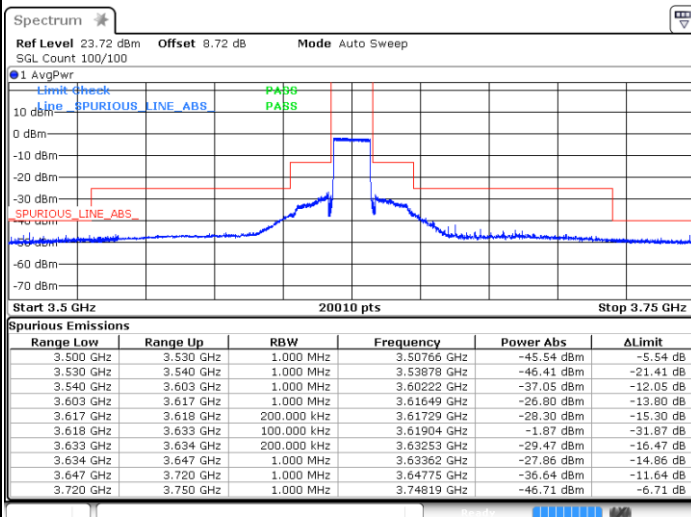
Date: 3 FEB 2021 19:11:37



Date: 3 FEB 2021 19:05:24

Middle Channel / Full RB

N/A



Date: 3 FEB 2021 19:15:03

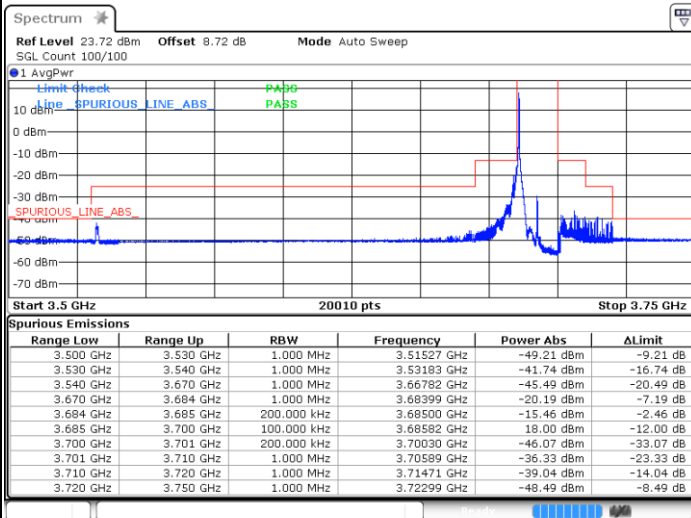


LTE Band 48 / 15MHz

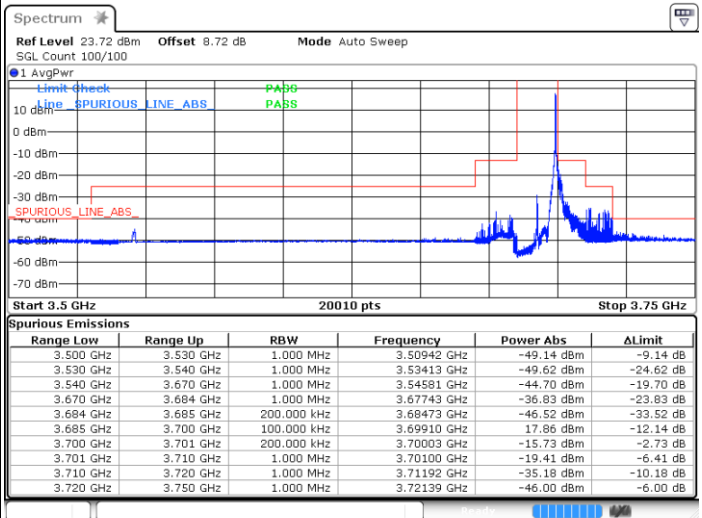
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



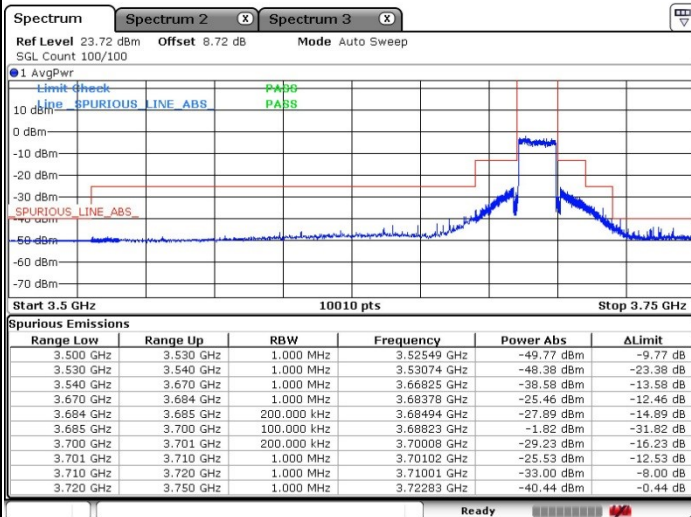
Date: 3 FEB 2021 19:29:07



Date: 3 FEB 2021 19:35:18

Highest Channel / Full RB

N/A



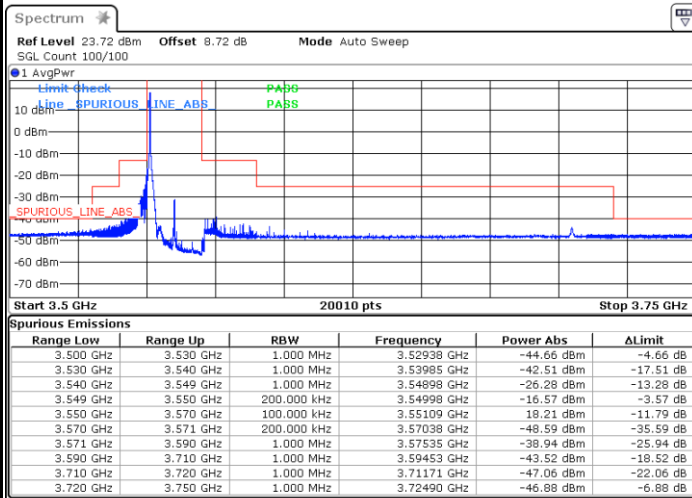
Date: 4 FEB 2021 10:57:02



LTE Band 48 / 20MHz

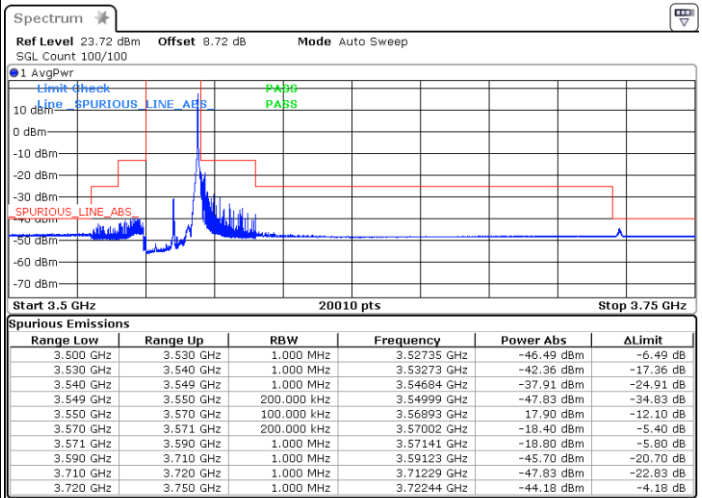
16QAM

Lowest Channel / 1RB0



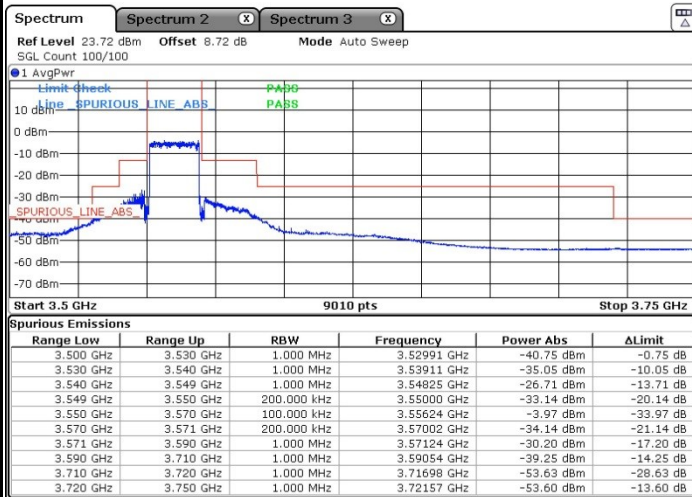
Date: 3.FEB.2021 12:46:01

Lowest Channel / 1RBmax



Date: 3.FEB.2021 12:49:28

Lowest Channel / Full RB



Date: 4 FEB 2021 10:43:02

N/A

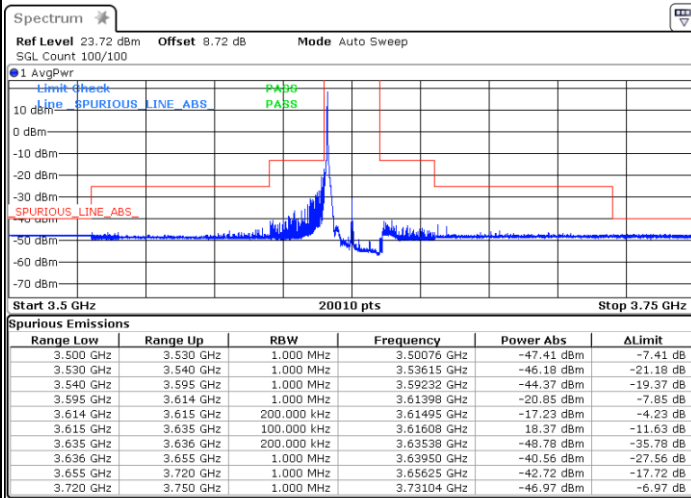


LTE Band 48 / 20MHz

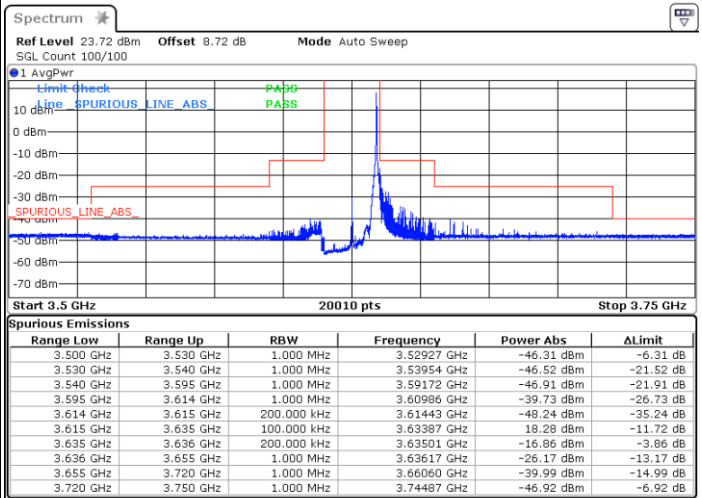
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



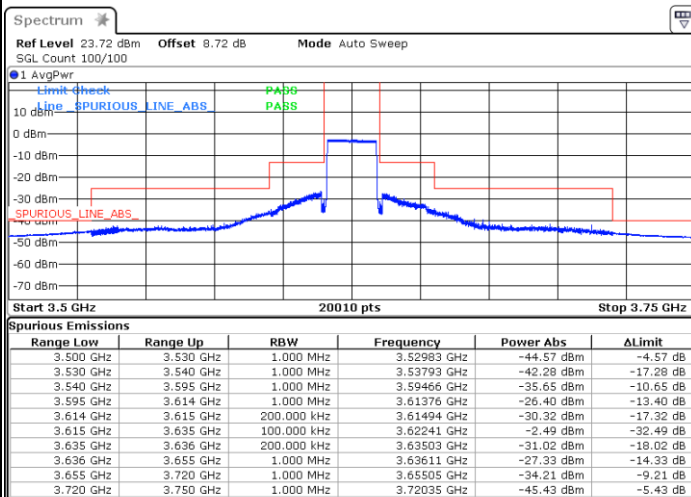
Date: 3.FEB.2021 13:11:59



Date: 3.FEB.2021 13:22:35

Middle Channel / Full RB

N/A



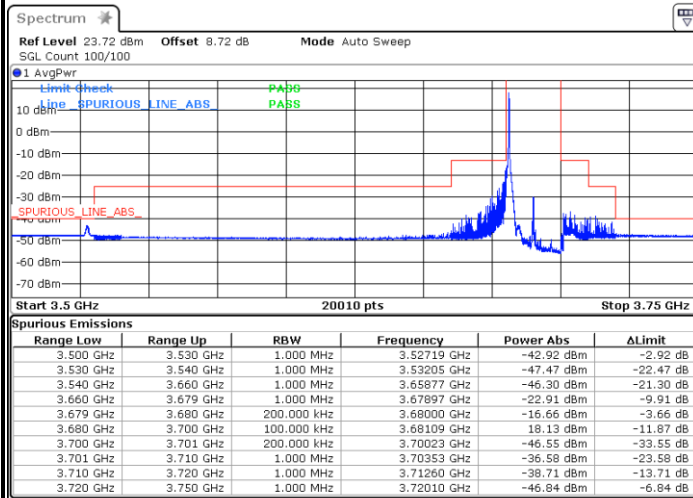
Date: 3.FEB.2021 12:59:57



LTE Band 48 / 20MHz

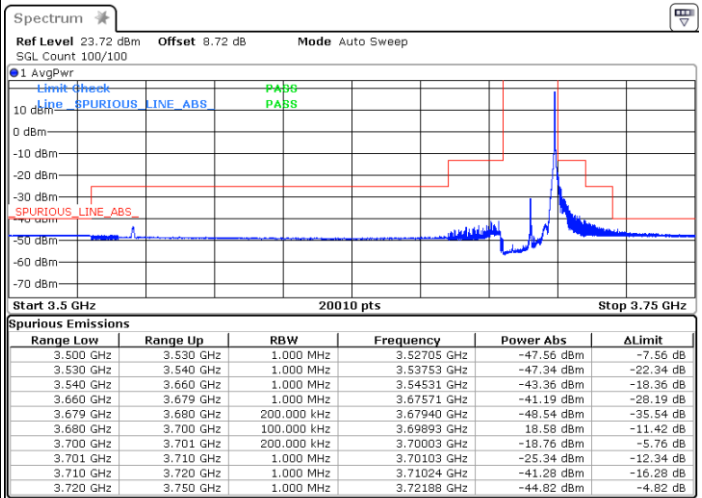
16QAM

Highest Channel / 1RB0



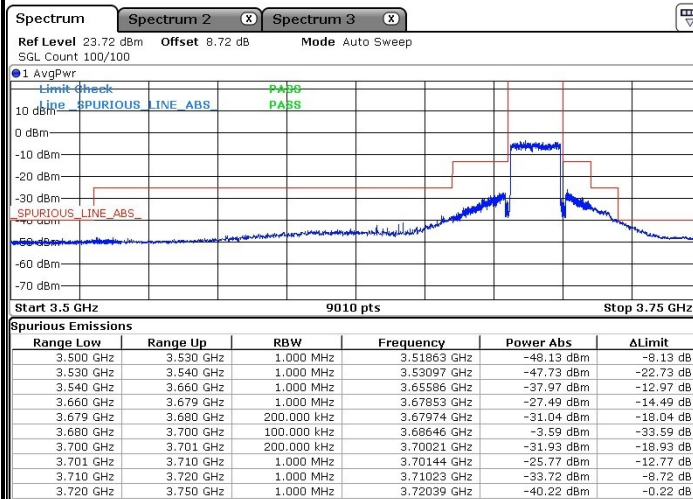
Date: 3.FEB.2021 13:36:44

Highest Channel / 1RBmax



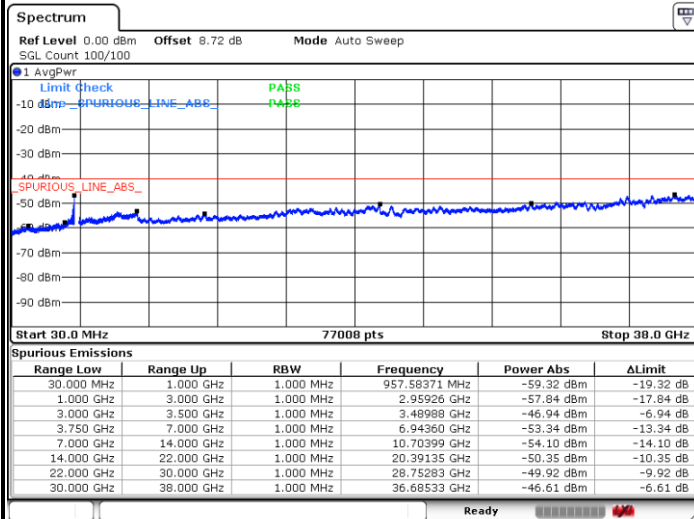
Date: 3.FEB.2021 13:29:43

Highest Channel / Full RB

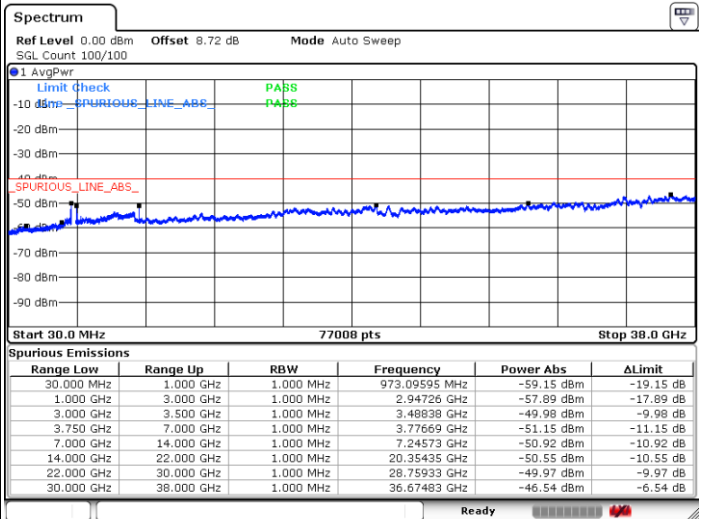


Date: 4.FEB.2021 10:49:17

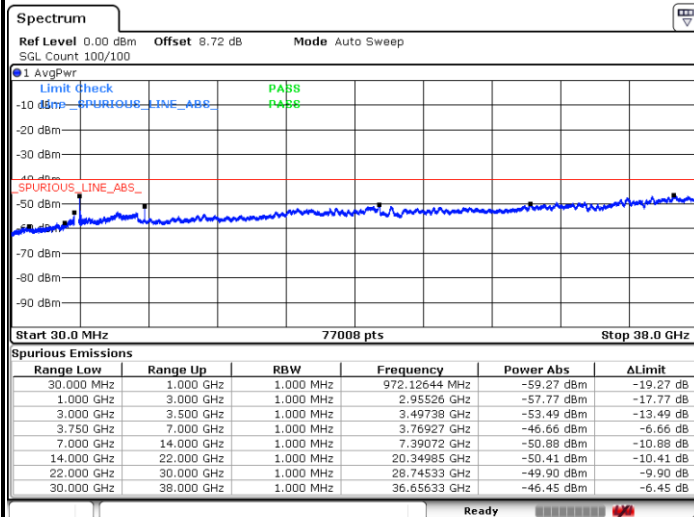
N/A

**Conducted Spurious Emission****LTE Band 48 / 5MHz****Lowest Channel / 1RB0**

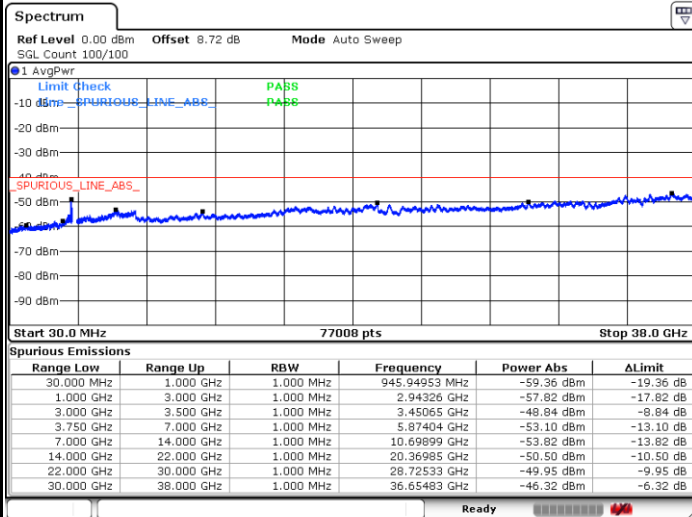
Date: 3.FEB.2021 14:13:59

LTE Band 48 / 5MHz**Middle Channel / 1RB0**

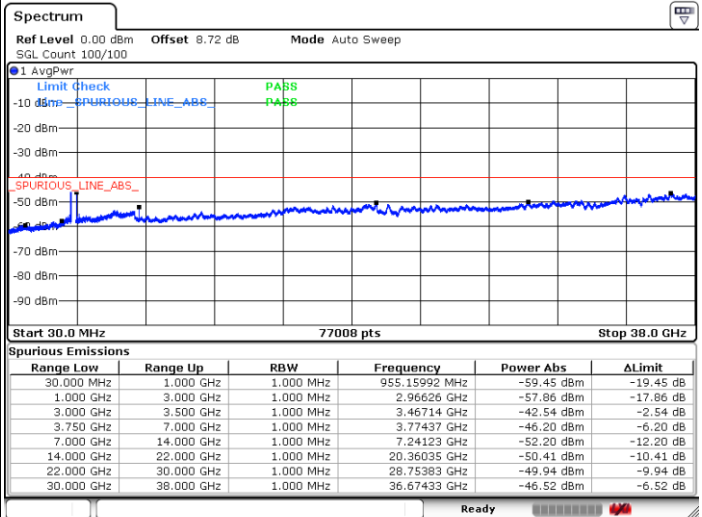
Date: 3.FEB.2021 14:17:07

LTE Band 48 / 5MHz**Highest Channel / 1RB0**

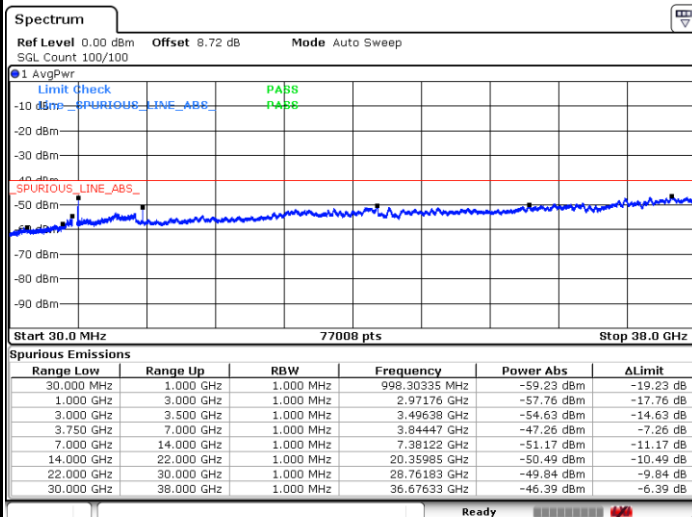
Date: 3.FEB.2021 14:18:30

LTE Band 48 / 10MHz
Lowest Channel / 1RB0

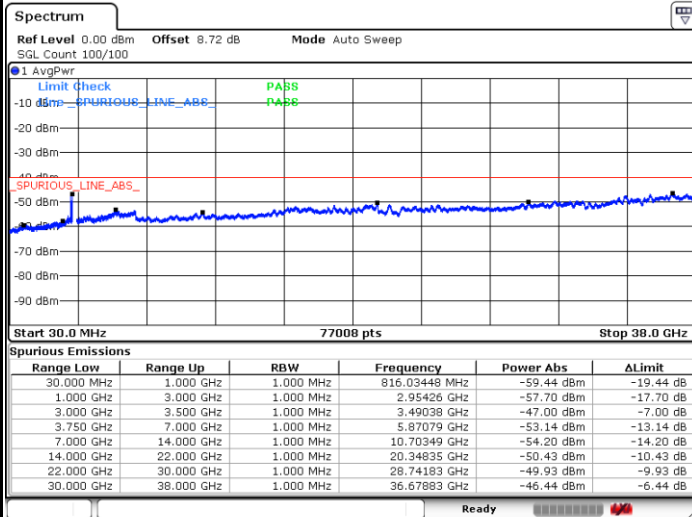
Date: 3.FEB.2021 14:06:50

LTE Band 48 / 10MHz
Middle Channel / 1RB0

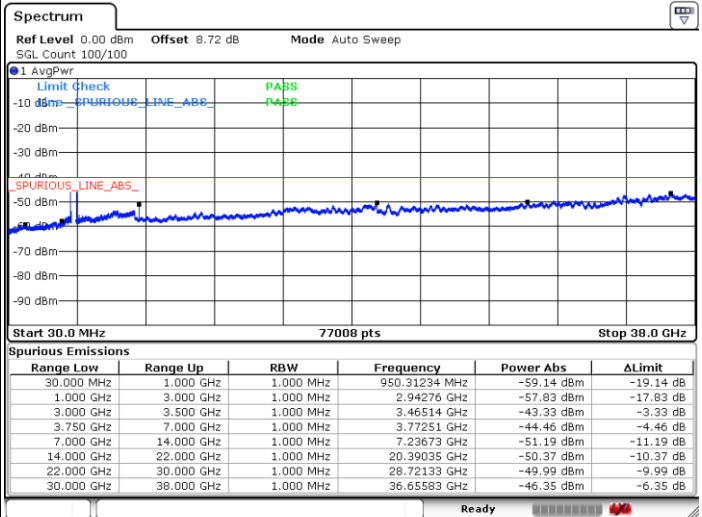
Date: 3.FEB.2021 14:08:19

LTE Band 48 / 10MHz
Highest Channel / 1RB0

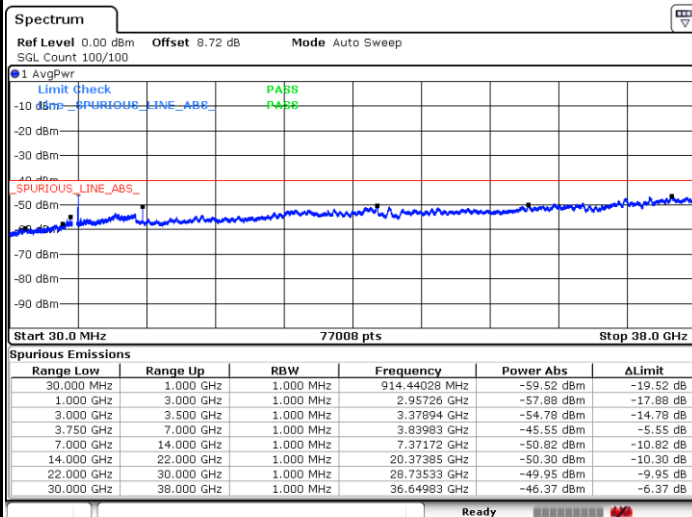
Date: 3.FEB.2021 14:09:39

LTE Band 48 / 15MHz
Lowest Channel / 1RB0

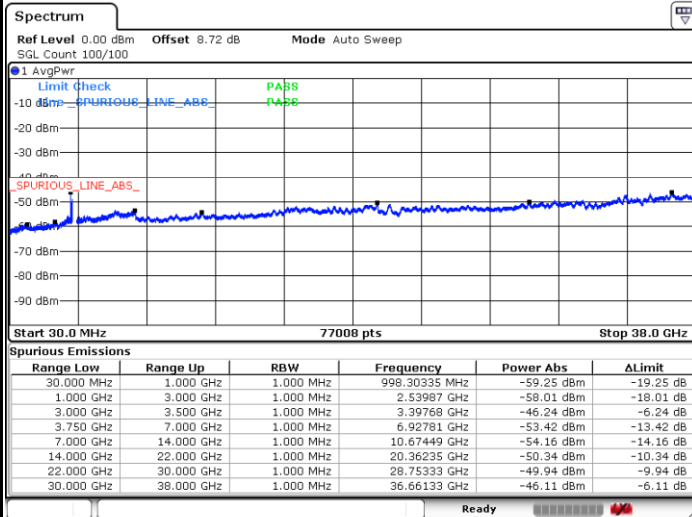
Date: 3.FEB.2021 14:04:05

LTE Band 48 / 15MHz
Middle Channel / 1RB0

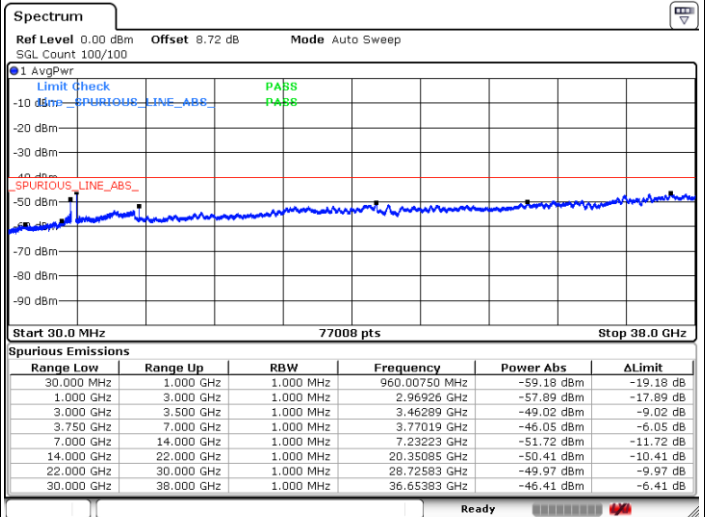
Date: 3.FEB.2021 14:02:50

LTE Band 48 / 15MHz
Highest Channel / 1RB0

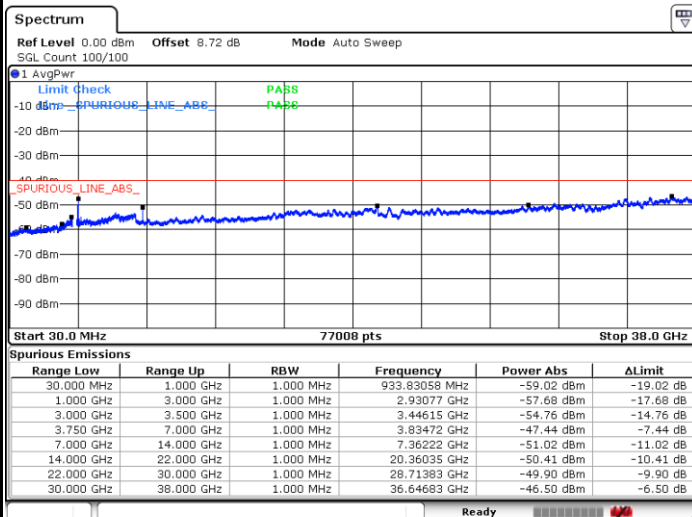
Date: 3.FEB.2021 14:05:21

LTE Band 48 / 20MHz
Lowest Channel / 1RB0

Date: 3.FEB.2021 13:58:40

LTE Band 48 / 20MHz
Middle Channel / 1RB0

Date: 3.FEB.2021 14:00:03

LTE Band 48 / 20MHz
Highest Channel / 1RB0

Date: 3.FEB.2021 14:01:17

Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0043	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0010	
20	Battery End Point	0.0023	

Note:

1. Normal Voltage =3.3V. ; Battery End Point (BEP) =3.135 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 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)
Lowest	7104	-62.87	-40	-22.87	-74.33	2.84	14.30	H
	10656	-60.64	-40	-20.64	-70.58	3.49	13.43	H
	14202	-60.26	-40	-20.26	-70.50	3.85	14.09	H
	7104	-62.51	-40	-22.51	-73.97	2.84	14.30	V
	10656	-60.96	-40	-20.96	-70.90	3.49	13.43	V
	14202	-61.05	-40	-21.05	-71.29	3.85	14.09	V
Middle	7230	-62.44	-40	-22.44	-73.90	2.84	14.30	H
	10848	-61.04	-40	-21.04	-70.98	3.49	13.43	H
	14466	-59.50	-40	-19.50	-69.74	3.85	14.09	H
	7230	-62.37	-40	-22.37	-73.83	2.84	14.30	V
	10848	-61.54	-40	-21.54	-71.48	3.49	13.43	V
	14466	-60.35	-40	-20.35	-70.59	3.85	14.09	V
Highest	7362	-62.68	-40	-22.68	-74.14	2.84	14.30	H
	11046	-60.98	-40	-20.98	-70.92	3.49	13.43	H
	14724	-58.85	-40	-18.85	-69.09	3.85	14.09	H
	7362	-62.34	-40	-22.34	-73.80	2.84	14.30	V
	11046	-61.39	-40	-21.39	-71.33	3.49	13.43	V
	14724	-60.03	-40	-20.03	-70.27	3.85	14.09	V

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