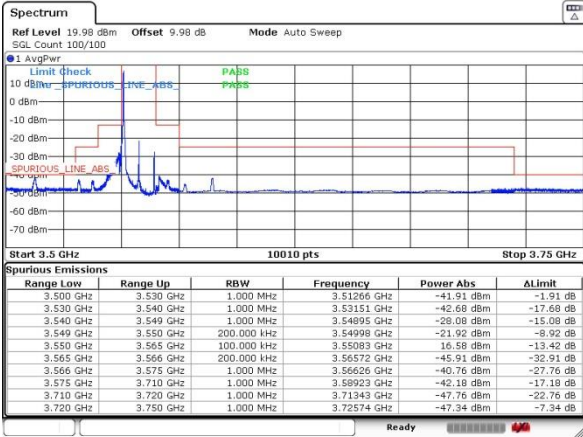




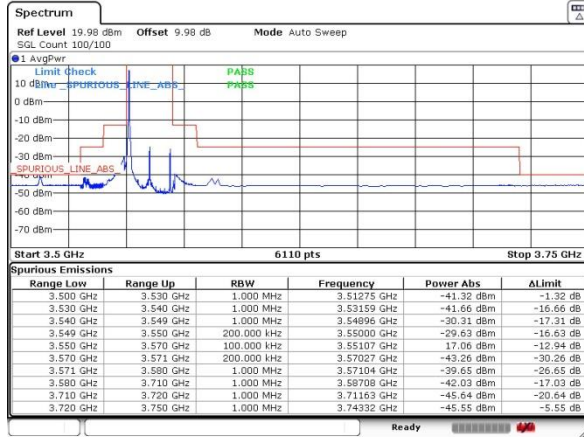
LTE Band 48

Lowest Channel / 1RB0 / 15M / 64QAM



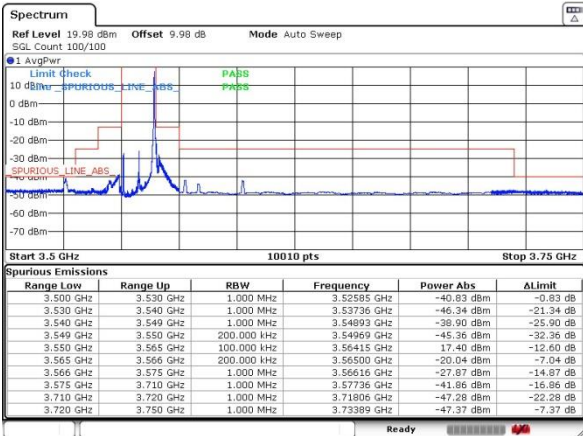
Date: 21.AUG.2020 17:21:06

Lowest Channel / 1RB0 / 20M / 64QAM



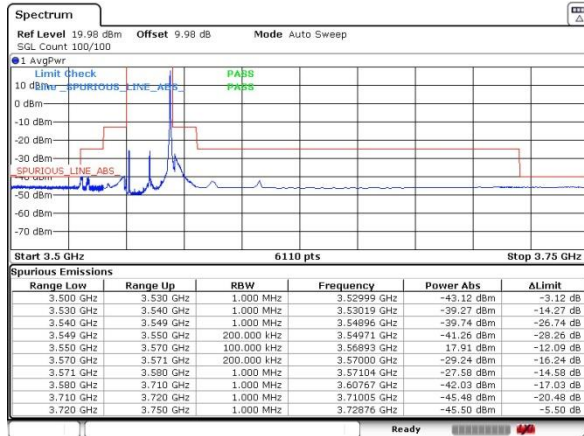
Date: 21.AUG.2020 18:10:28

Lowest Channel / 1RBmax / 15M / 64QAM



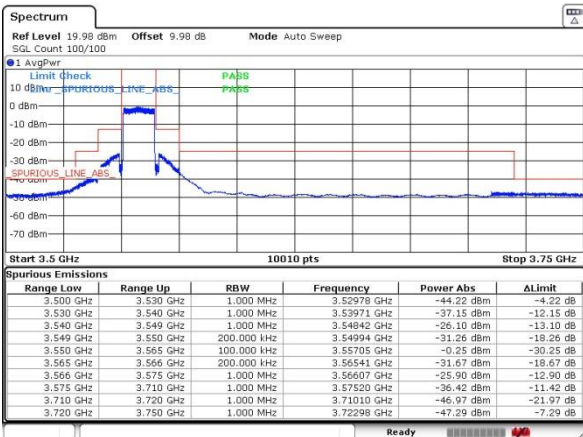
Date: 21.AUG.2020 17:24:24

Lowest Channel / 1RBmax / 20M / 64QAM



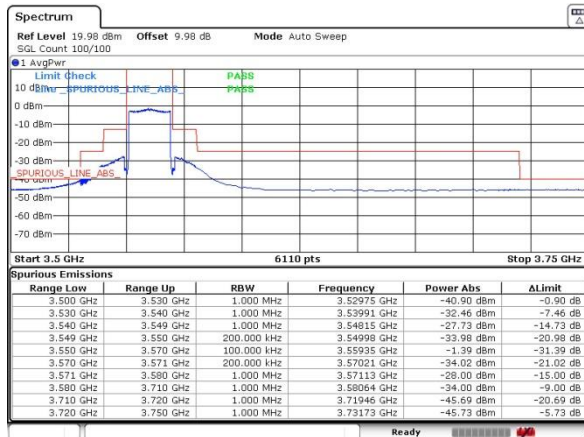
Date: 21.AUG.2020 18:14:53

Lowest Channel / FullIRB / 15M / 64QAM



Date: 21.AUG.2020 17:17:45

Lowest Channel / FullIRB / 20M / 64QAM

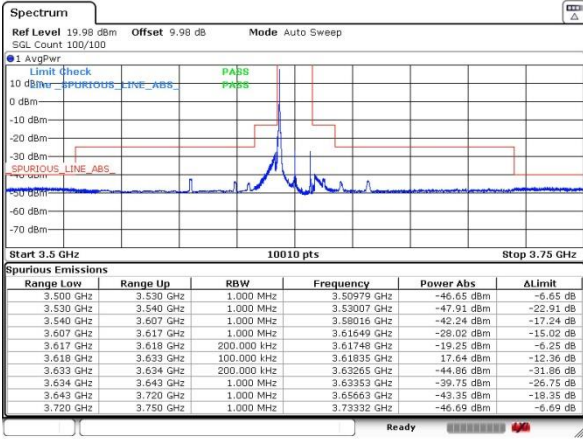


Date: 21.AUG.2020 18:06:20



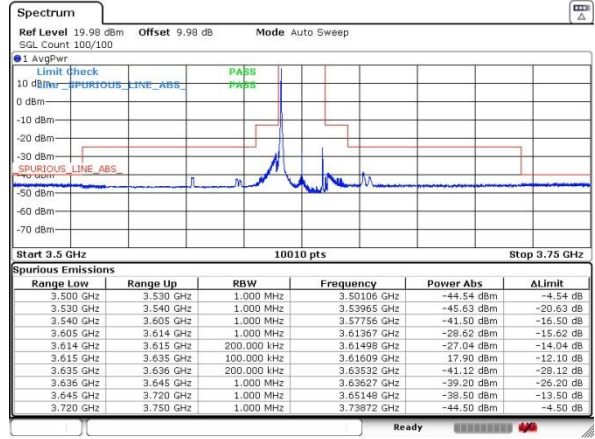
LTE Band 48

Middle Channel / 1RB0 / 15M / 64QAM



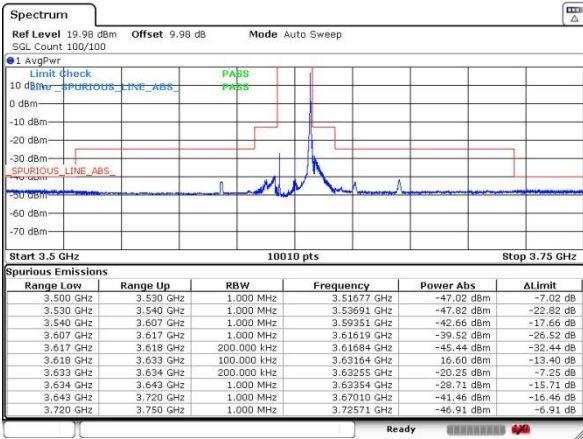
Date: 21.AUG.2020 17:30:37

Middle Channel / 1RB0 / 20M / 64QAM



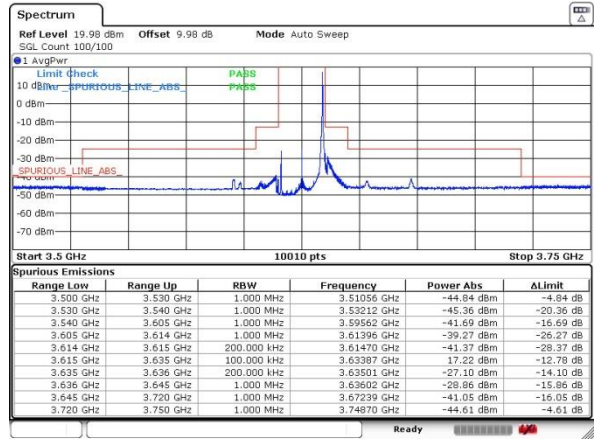
Date: 21.AUG.2020 18:24:13

Middle Channel / 1RBmax / 15M / 64QAM



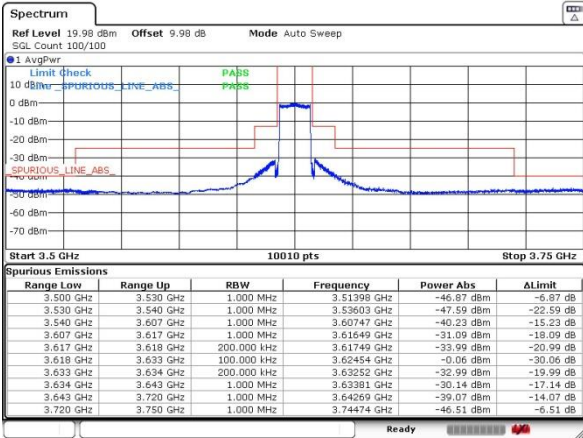
Date: 21.AUG.2020 17:34:59

Middle Channel / 1RBmax / 20M / 64QAM



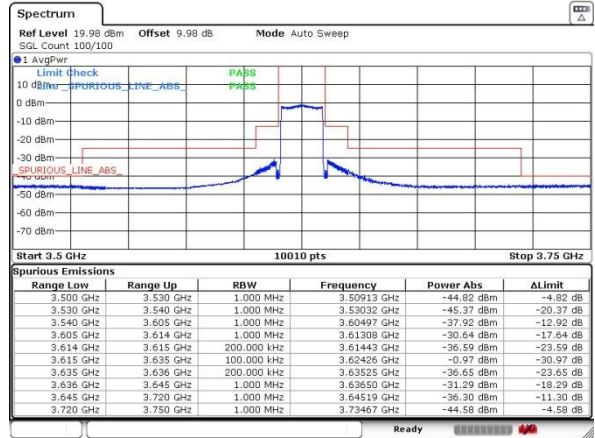
Date: 21.AUG.2020 18:20:52

Middle Channel / FullRB / 15M / 64QAM



Date: 21.AUG.2020 17:38:33

Middle Channel / FullRB / 20M / 64QAM

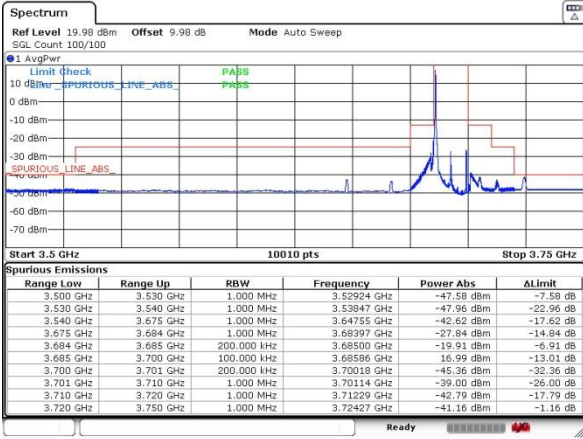


Date: 21.AUG.2020 19:07:52



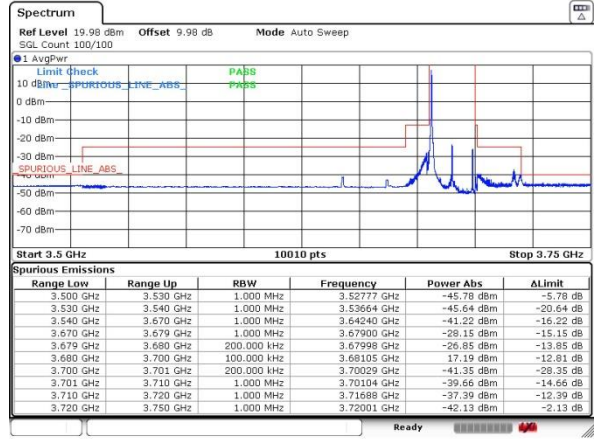
LTE Band 48

Highest Channel / 1RB0 / 15M / 64QAM



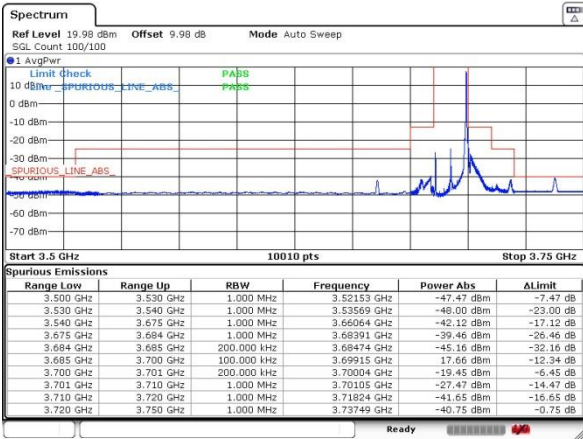
Date: 21.AUG.2020 17:50:55

Highest Channel / 1RB0 / 20M / 64QAM



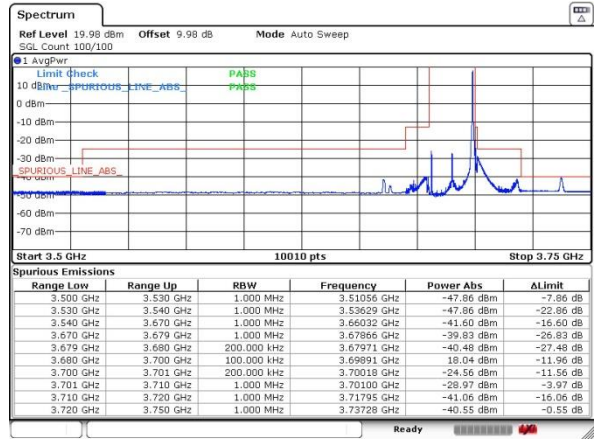
Date: 21.AUG.2020 18:39:18

Highest Channel / 1RBmax / 15M / 64QAM



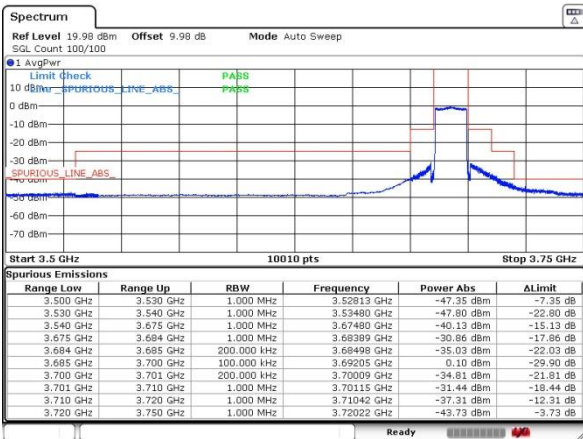
Date: 21.AUG.2020 17:56:54

Highest Channel / 1RBmax / 20M / 64QAM



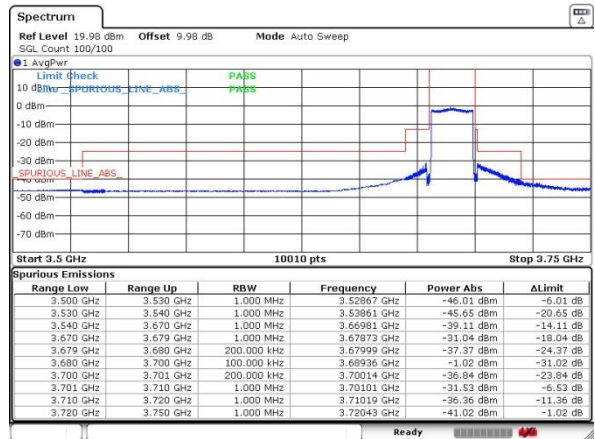
Date: 21.AUG.2020 18:58:14

Highest Channel / FullIRB / 15M / 64QAM



Date: 21.AUG.2020 17:44:50

Highest Channel / FullIRB / 20M / 64QAM



Date: 21.AUG.2020 18:35:02



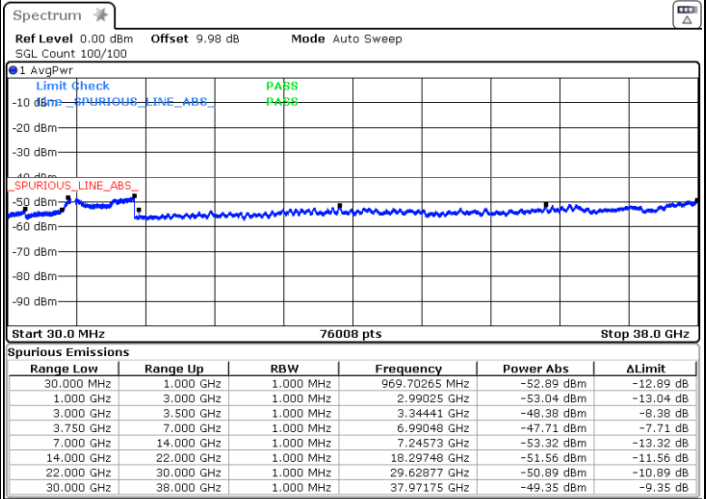
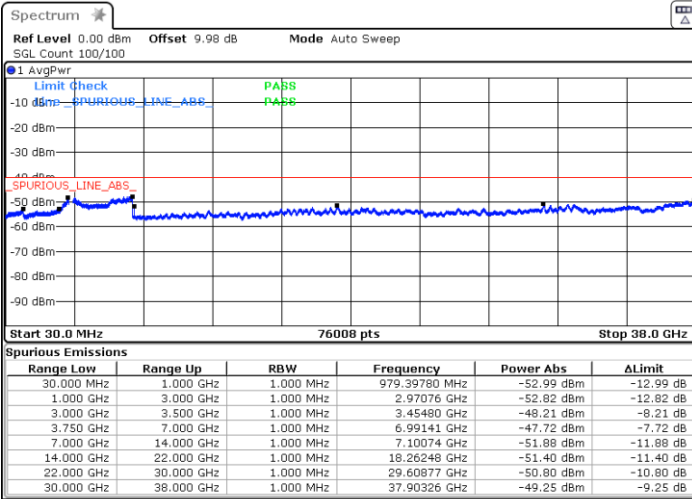
Conducted Spurious Emission

LTE Band 48 / 5MHz

QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

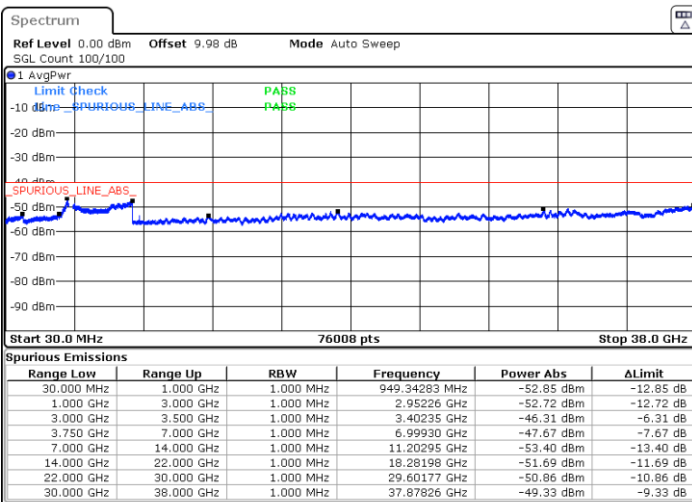


Date: 21 AUG 2020 02:31:08

Date: 21.AUG.2020 02:32:46

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 02:50:03



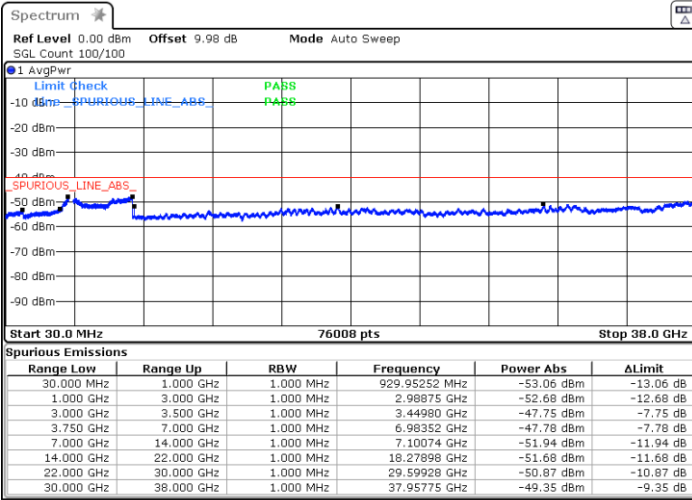


LTE Band 48 / 5MHz

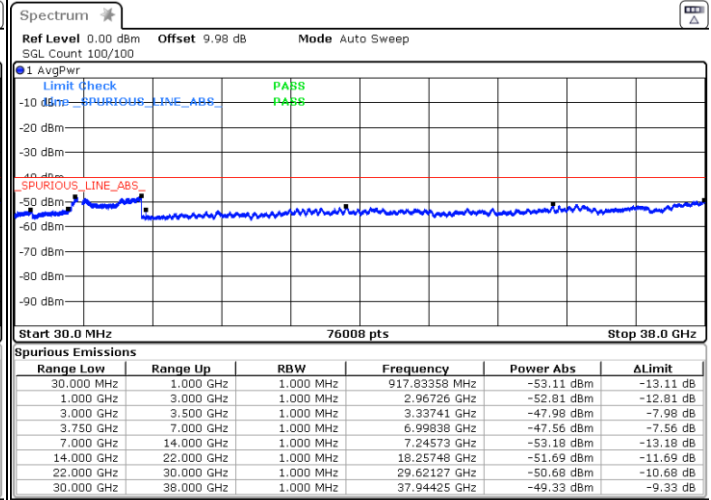
16QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



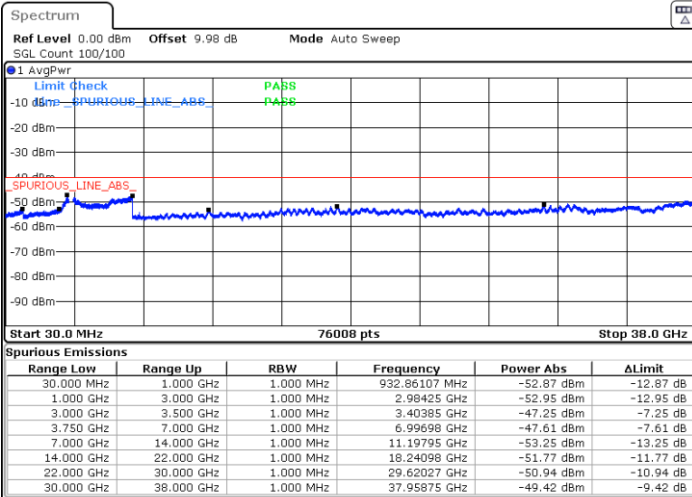
Date: 21 AUG 2020 02:29:25



Date: 21 AUG 2020 02:34:44

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 02:48:57

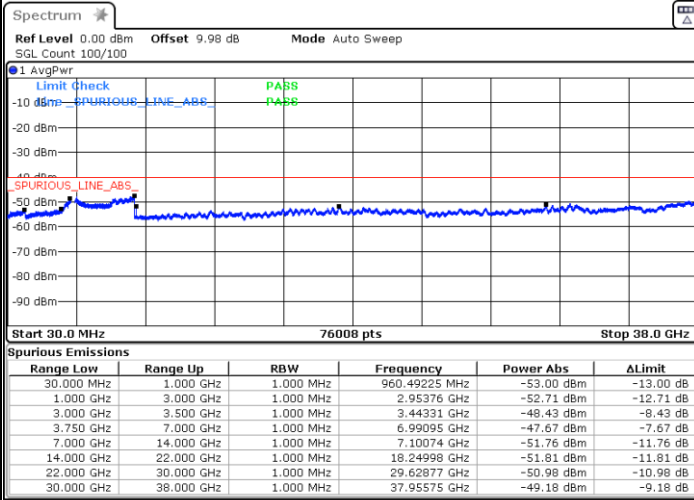


LTE Band 48 / 5MHz

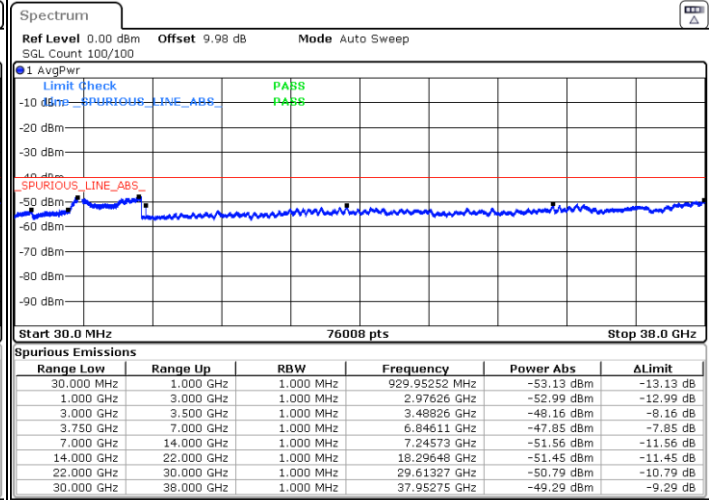
64QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



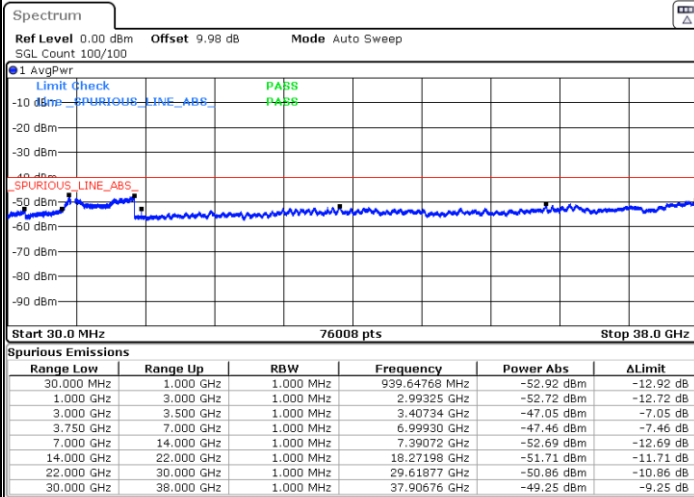
Date: 21 AUG 2020 02:22:59



Date: 21 AUG 2020 02:46:26

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 02:47:43

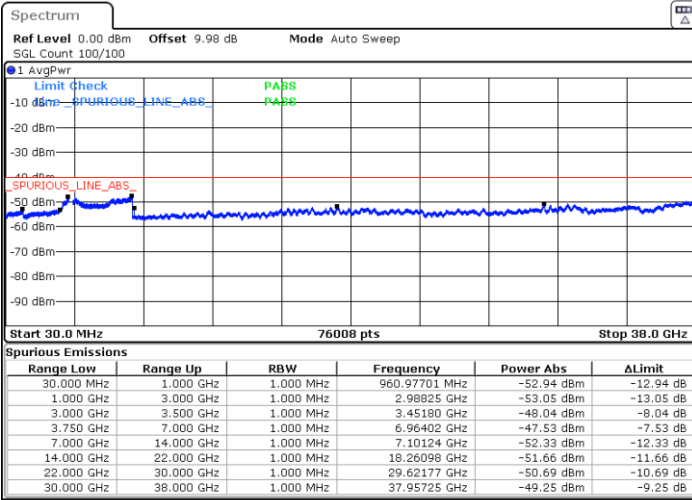


LTE Band 48 / 10MHz

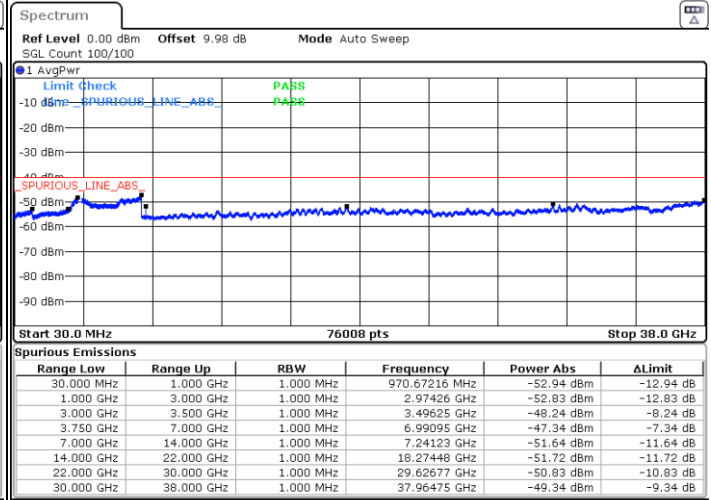
QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0



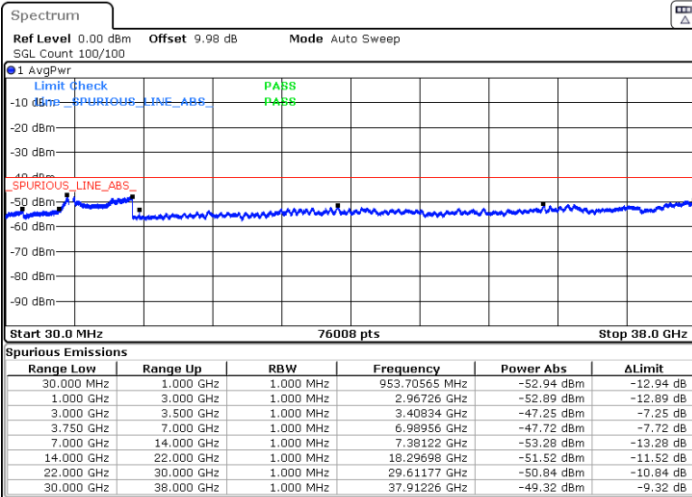
Date: 21 AUG 2020 02:51:26



Date: 21 AUG 2020 02:58:33

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 03:00:03

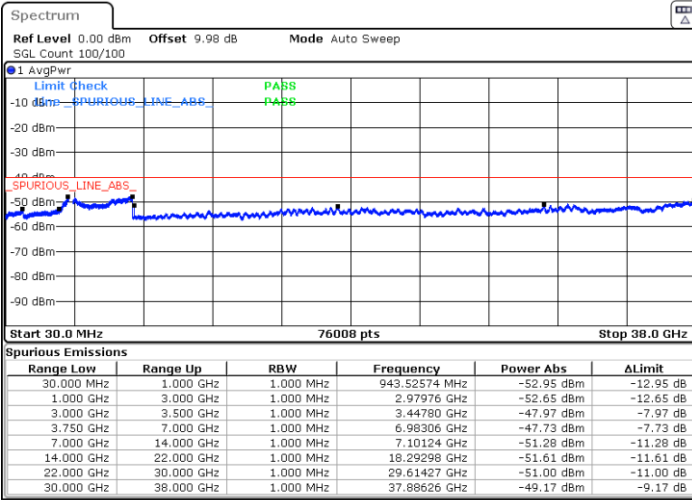


LTE Band 48 / 10MHz

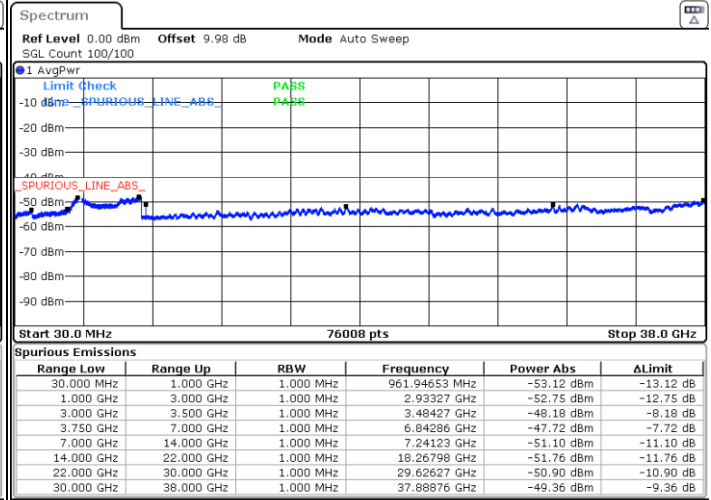
16QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



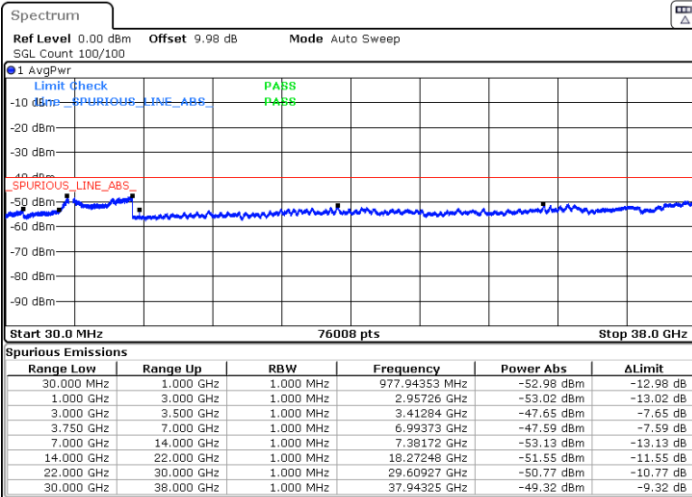
Date: 21 AUG 2020 02:52:51



Date: 21 AUG 2020 02:57:23

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 03:05:53

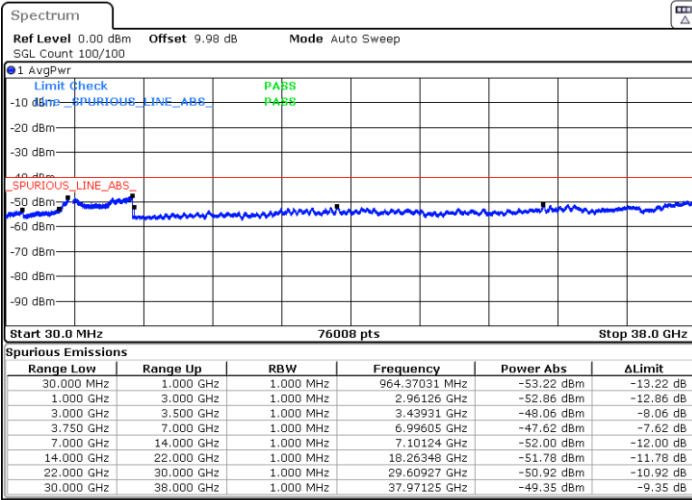


LTE Band 48 / 10MHz

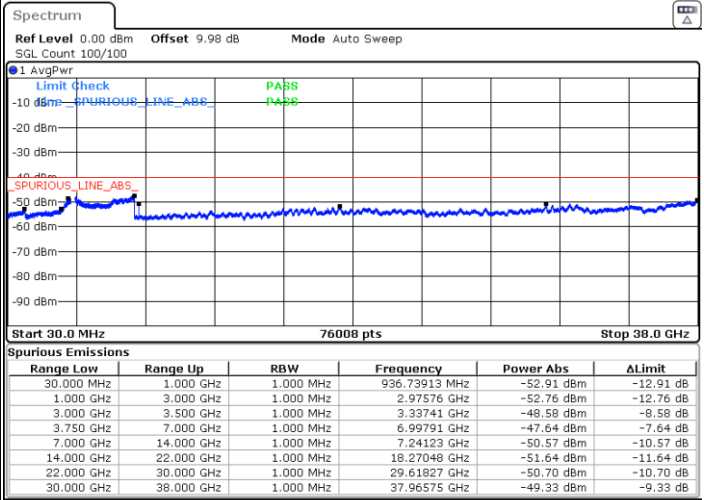
64QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



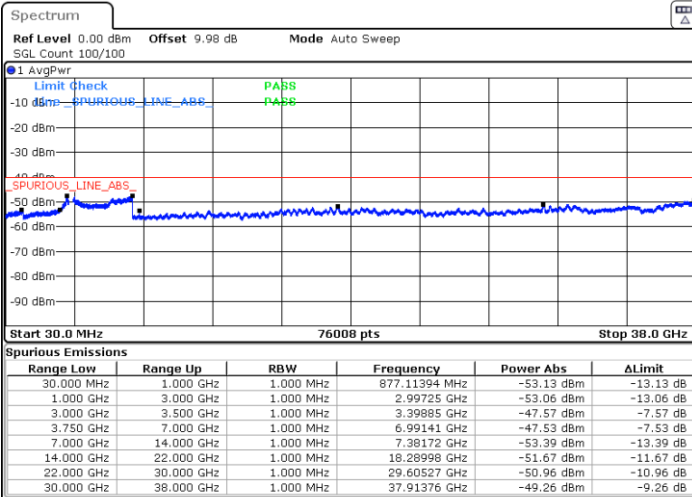
Date: 21 AUG 2020 02:54:12



Date: 21 AUG 2020 02:55:19

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 03:06:58

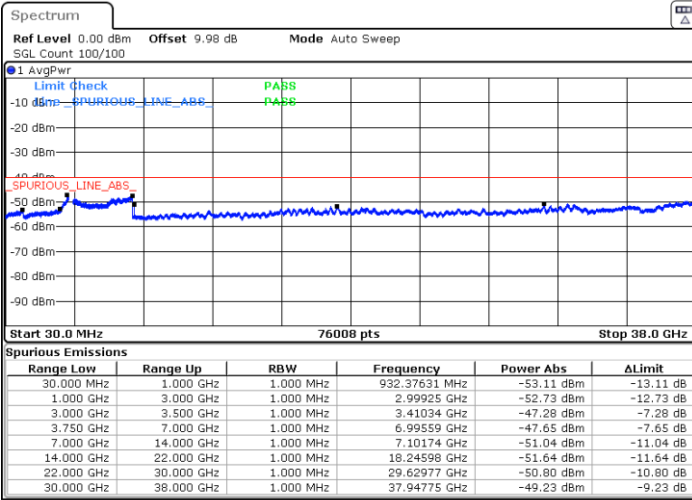


LTE Band 48 / 15MHz

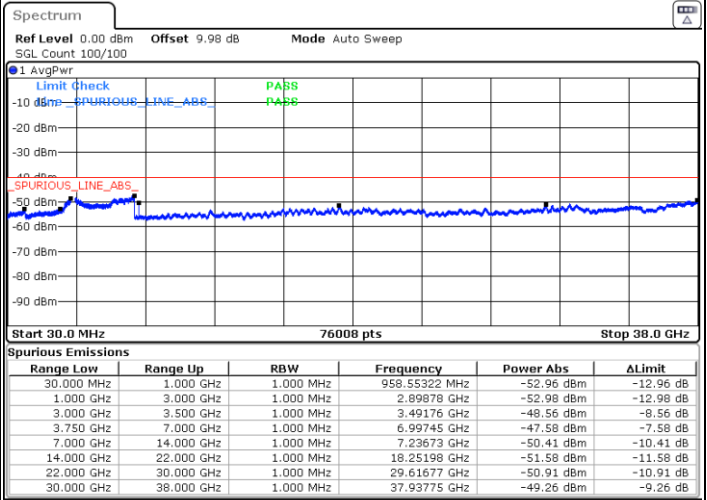
QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0



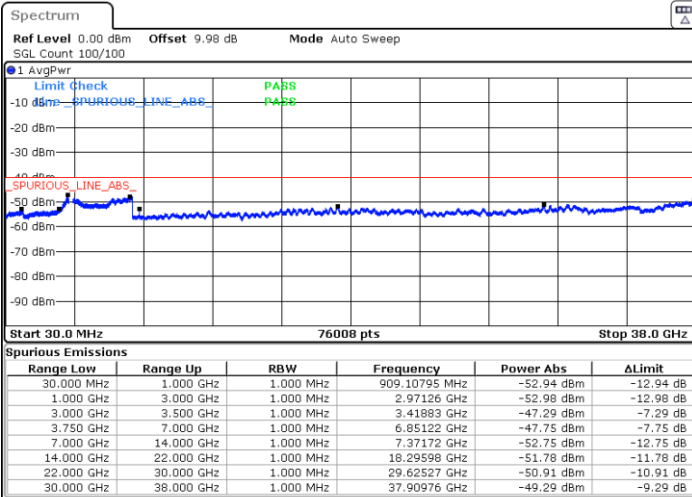
Date: 21 AUG 2020 03:11:32



Date: 21 AUG 2020 03:13:05

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 03:18:30

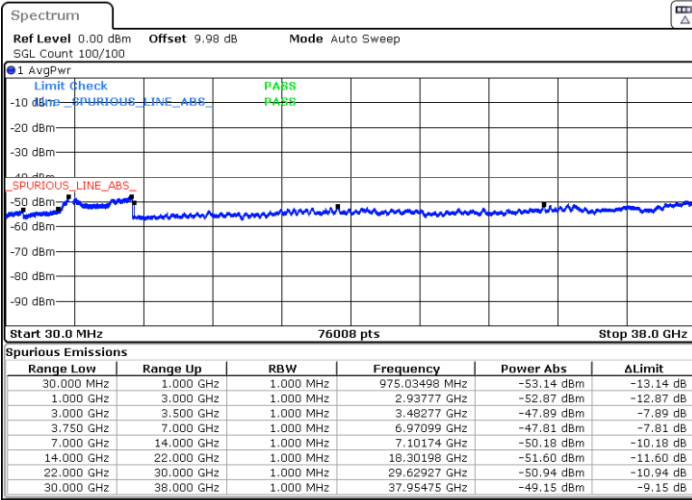


LTE Band 48 / 15MHz

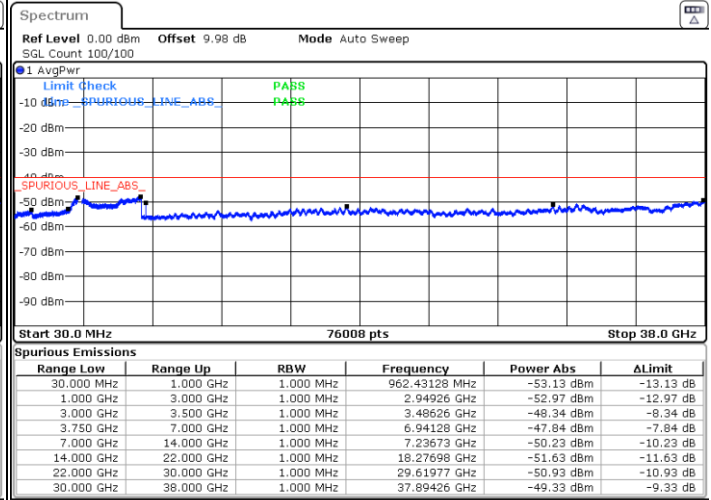
16QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



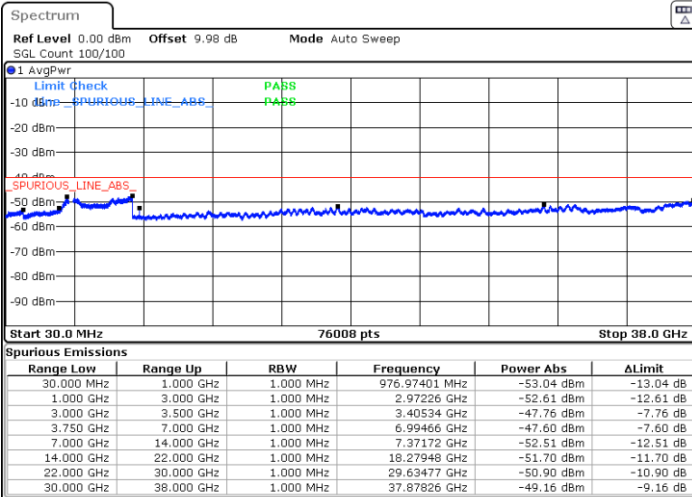
Date: 21 AUG 2020 03:09:34



Date: 21 AUG 2020 03:14:08

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 03:17:28

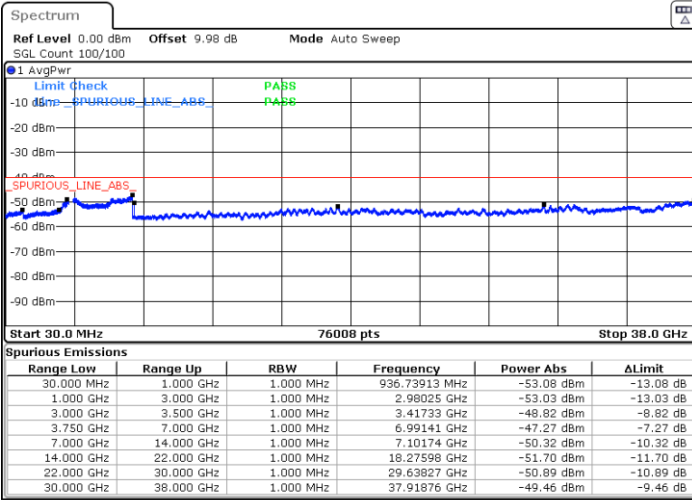


LTE Band 48 / 15MHz

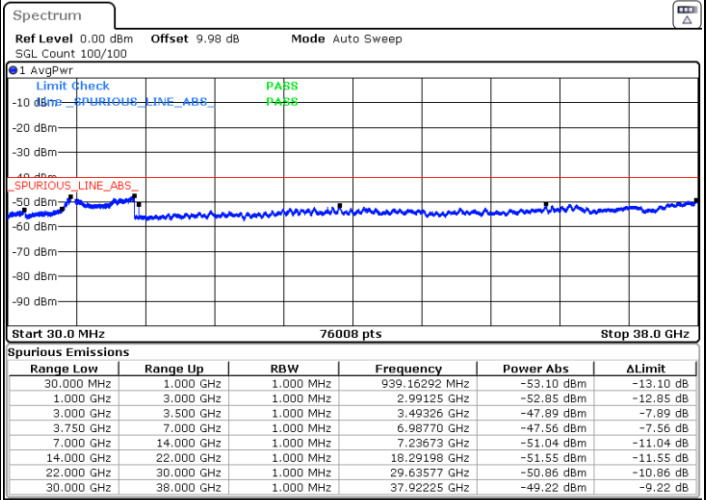
64QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



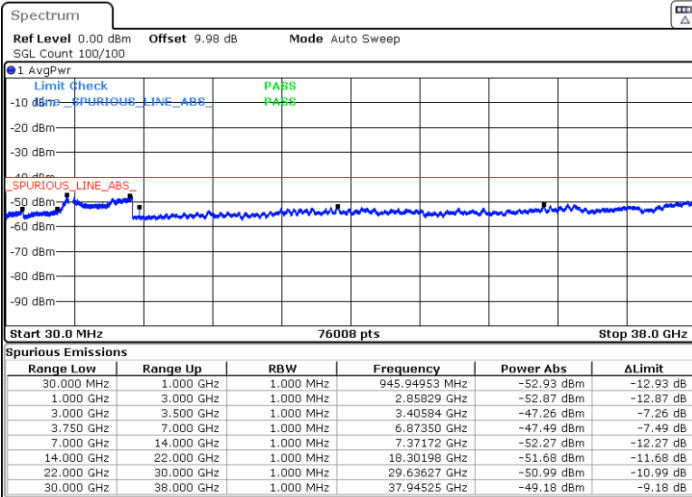
Date: 21 AUG 2020 03:08:22



Date: 21 AUG 2020 03:15:12

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 03:16:24

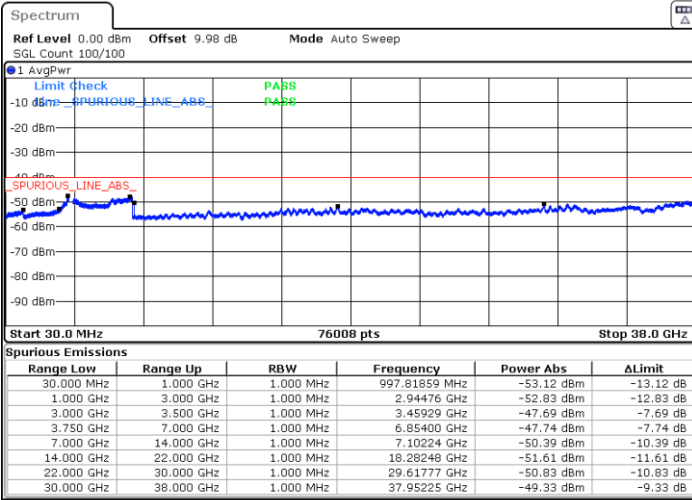


LTE Band 48 / 20MHz

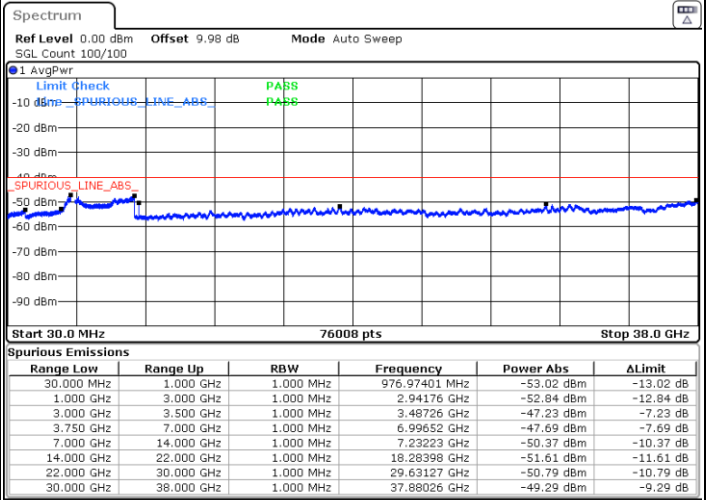
QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0



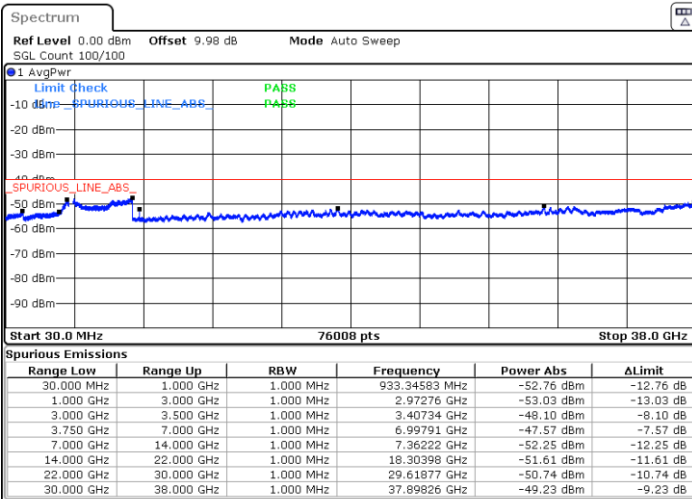
Date: 21 AUG 2020 03:19:58



Date: 21 AUG 2020 03:25:26

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 03:26:32

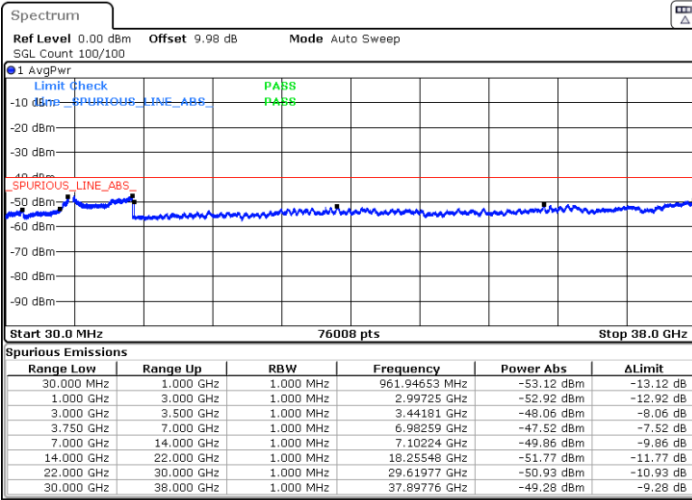


LTE Band 48 / 20MHz

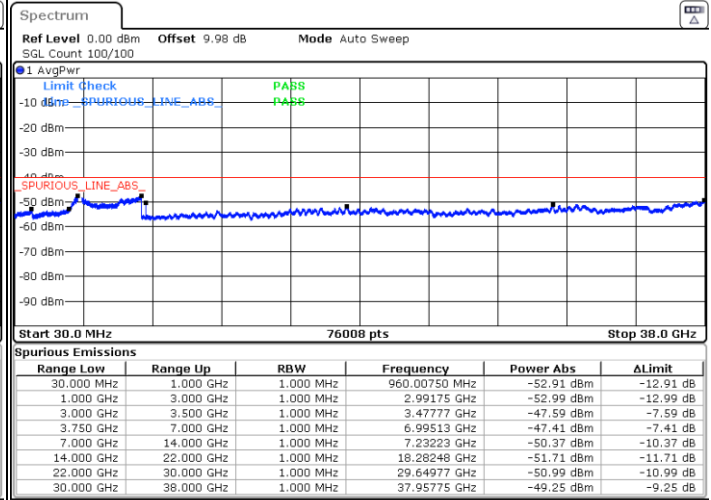
16QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



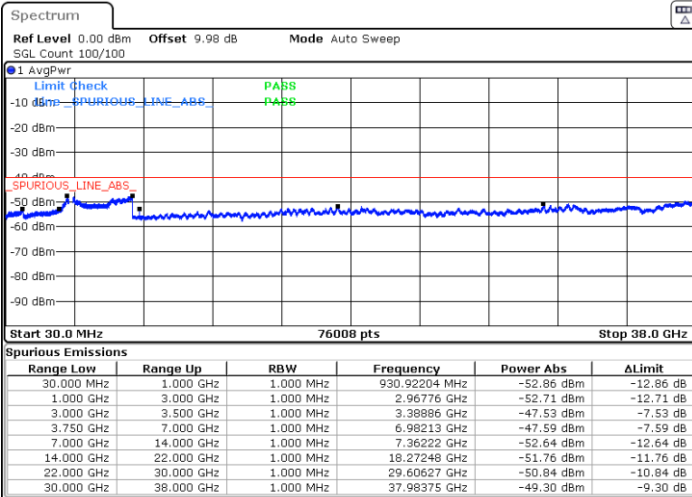
Date: 21 AUG 2020 03:21:02



Date: 21 AUG 2020 03:24:23

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 03:27:36

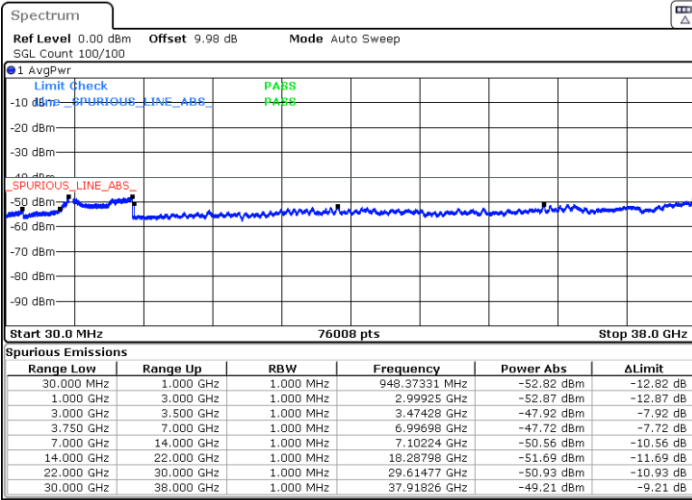


LTE Band 48 / 20MHz

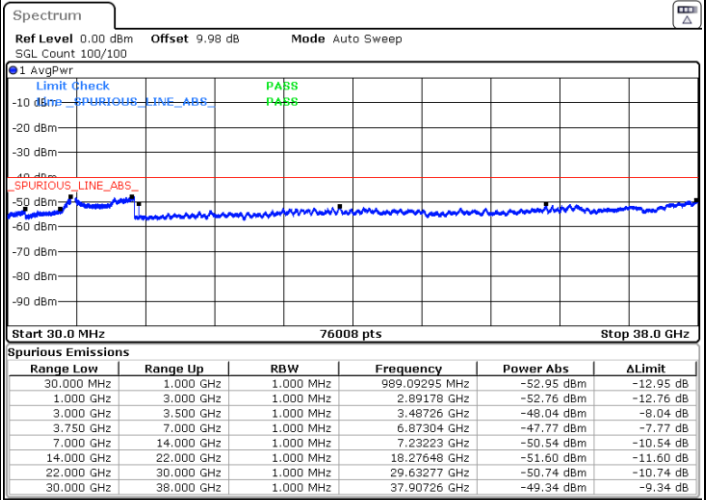
64QAM

Lowest Channel / 1RB0

Middle Channel / 1RB0



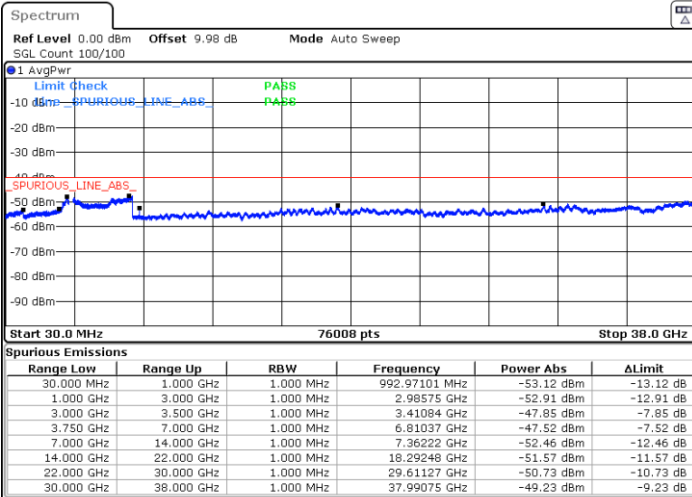
Date: 21 AUG 2020 03:22:08



Date: 21 AUG 2020 03:23:19

Highest Channel / 1RB0

N/A



Date: 21 AUG 2020 03:28:54



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	0.0016	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =24V. ; Battery End Point (BEP) =19V. ; Maximum Voltage =30V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 48 / 10MHz / 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	7240	-46.41	-40	-6.41	-57.87	2.84	14.30	H
	10860	-55.26	-40	-15.26	-65.20	3.49	13.43	H
	14484	-52.91	-40	-12.91	-63.15	3.85	14.09	H
	7240	-48.53	-40	-8.53	-59.99	2.84	14.30	V
	10860	-55.80	-40	-15.80	-65.74	3.49	13.43	V
	14484	-52.50	-40	-12.50	-62.74	3.85	14.09	V

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