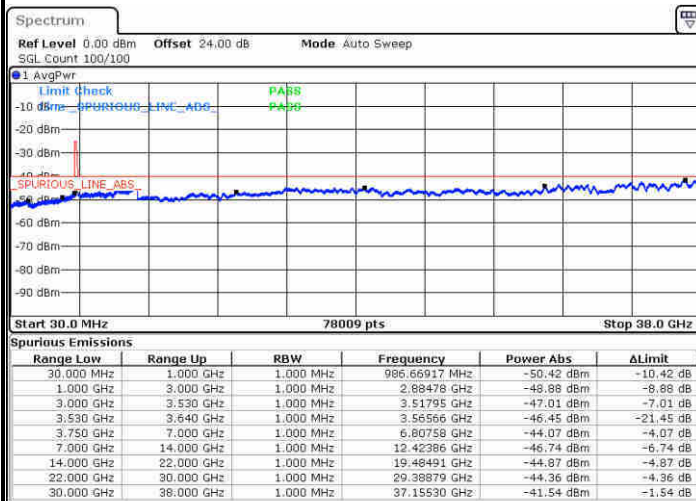




LTE Band 48 / 5MHz

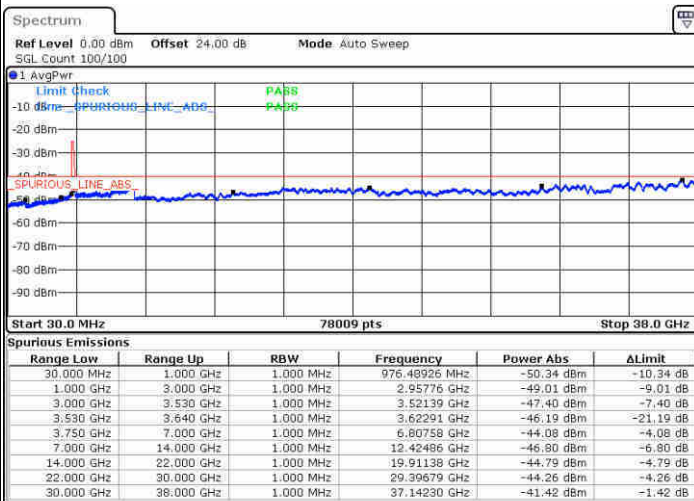
QPSK

Highest Channel / 1RB0



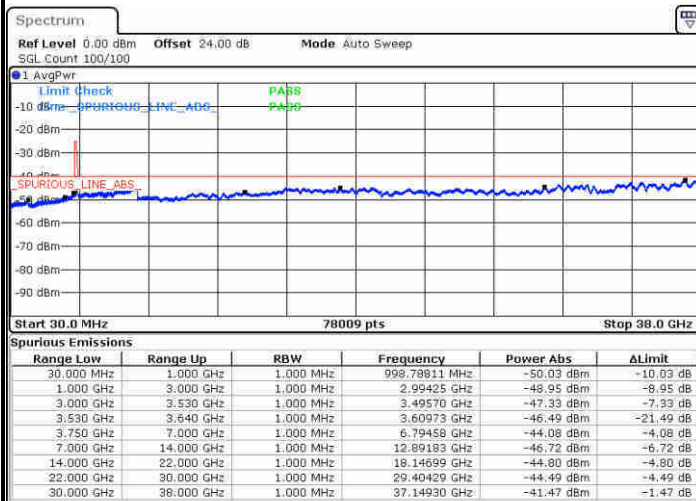
Date: 12 FEB 2020 05:05:29

Highest Channel / 1RBmax



Date: 12 FEB 2020 05:09:54

Highest Channel / FullIRB



Date: 12 FEB 2020 05:16:41

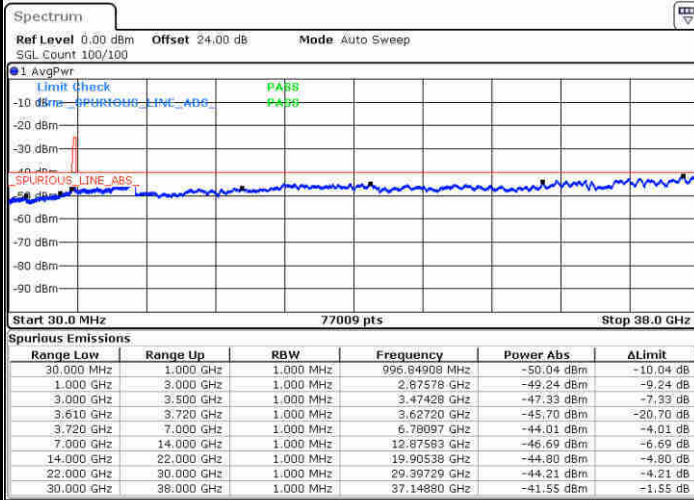
N/A



LTE Band 48 / 10MHz

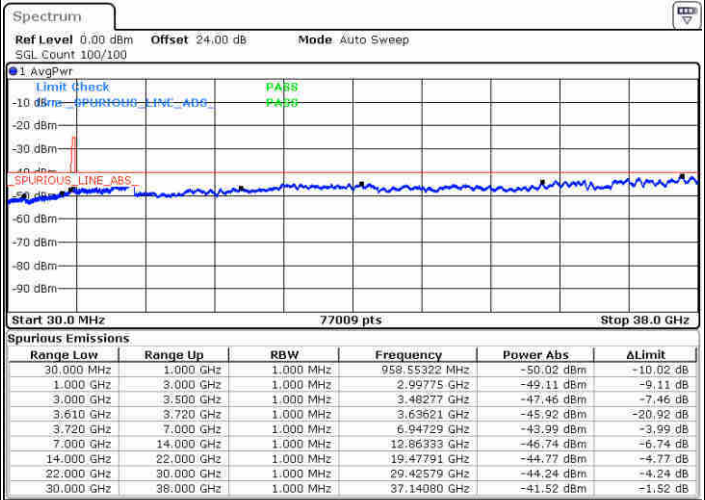
QPSK

Lowest Channel / 1RB0



Date: 12 FEB 2020 06:14:11

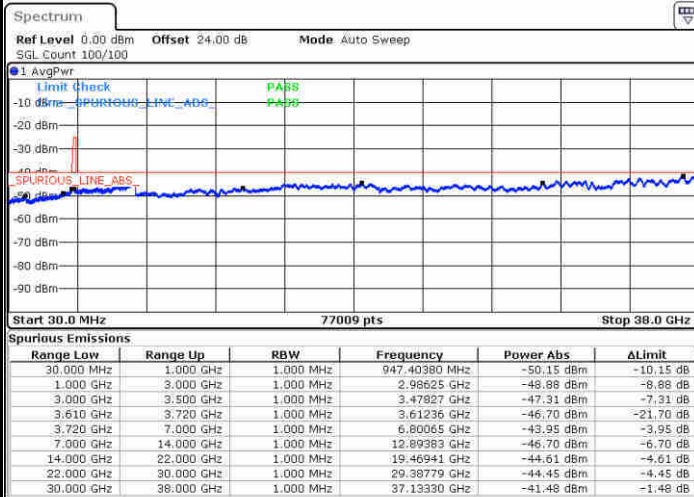
Lowest Channel / 1RBmax



Date: 12 FEB 2020 06:21:45

Lowest Channel / FullRB

N/A



Date: 12 FEB 2020 06:38:20

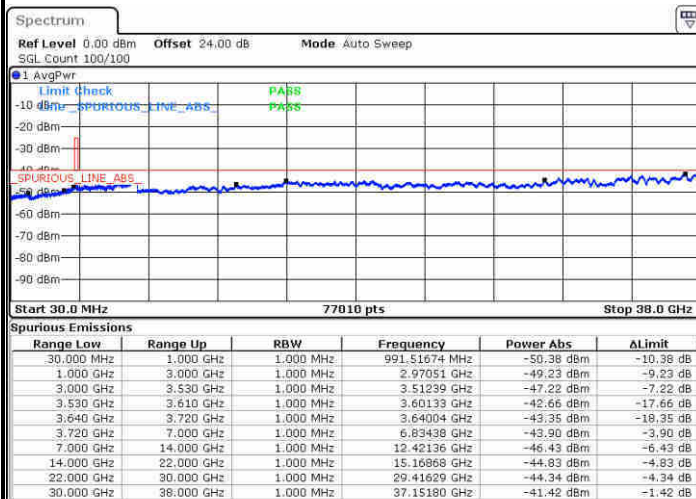


LTE Band 48 / 10MHz

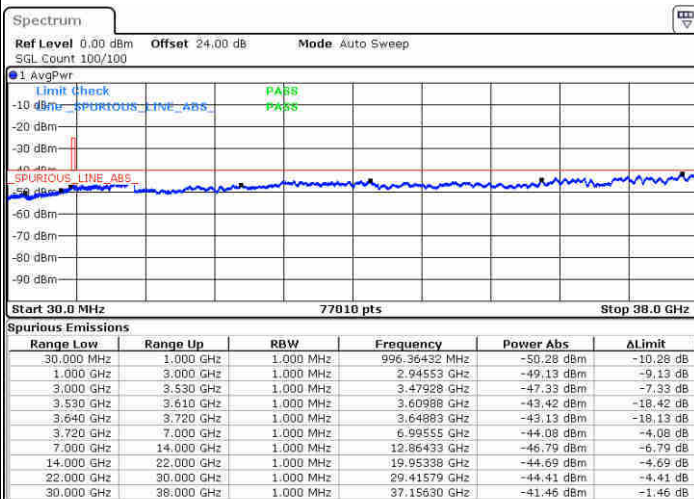
QPSK

MiddleChannel / 1RB0

Middle Channel / 1RBmax



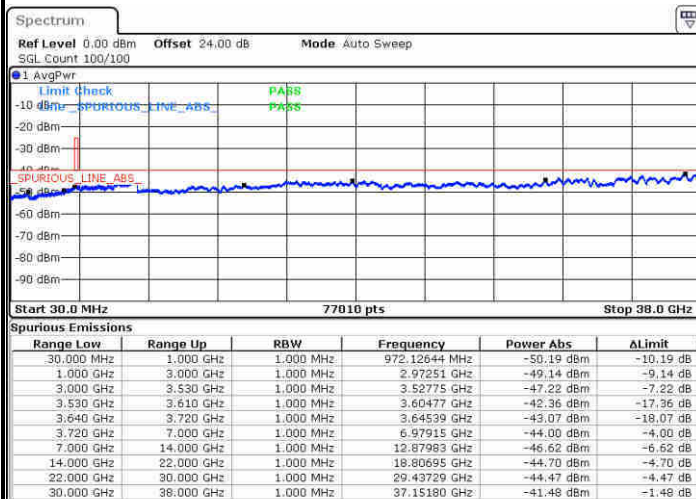
Date: 12 FEB 2020 07:17:44



Date: 12 FEB 2020 07:19:52

Middle Channel / FullIRB

N/A



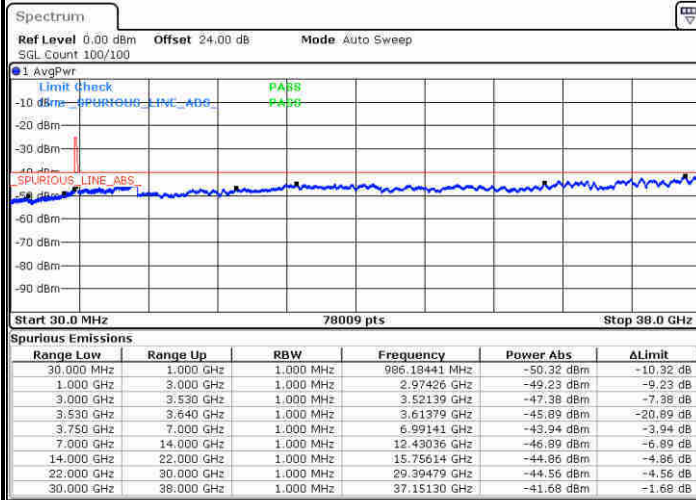
Date: 12 FEB 2020 07:21:46



LTE Band 48 / 10MHz

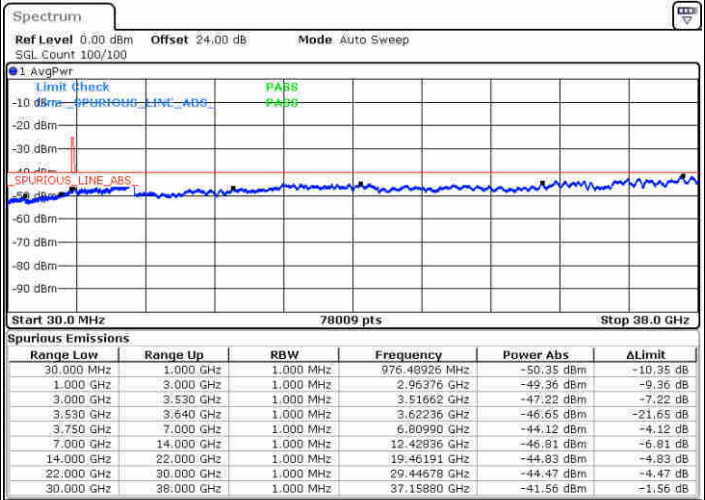
QPSK

Highest Channel / 1RB0



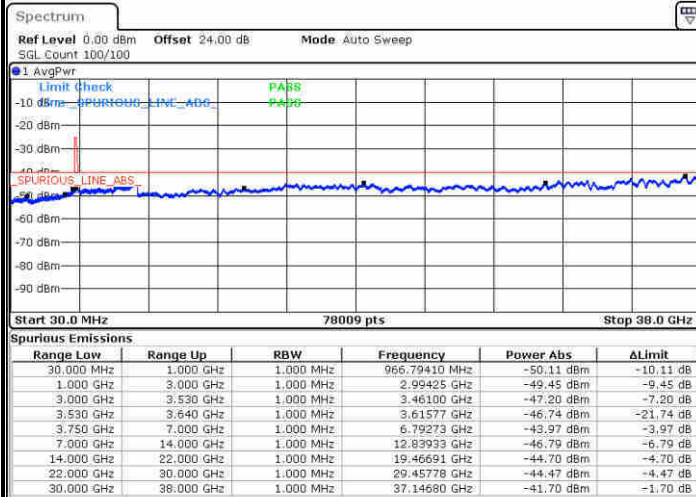
Date: 13 FEB 2020 00:14:24

Highest Channel / 1RBmax



Date: 13 FEB 2020 00:16:49

Highest Channel / FullIRB



Date: 13 FEB 2020 00:18:40

N/A

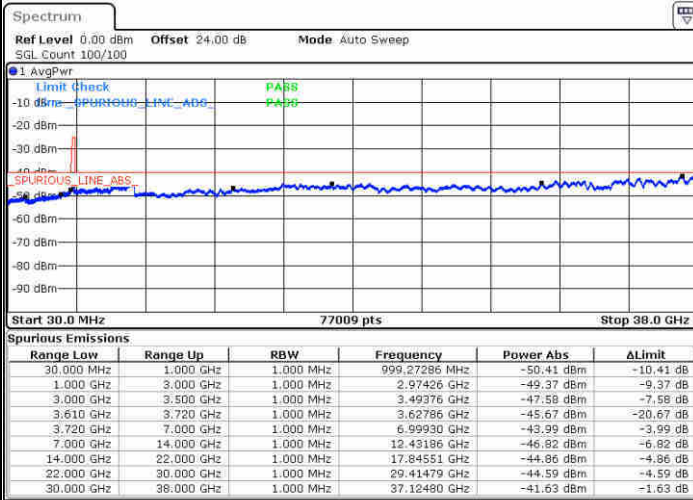


LTE Band 48 / 15MHz

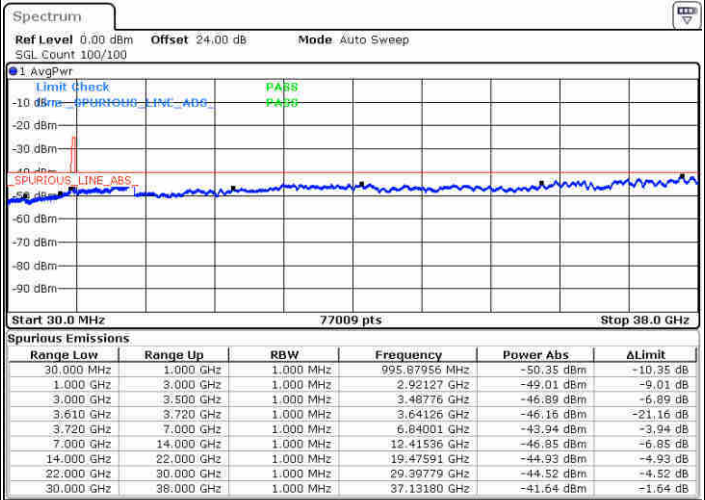
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



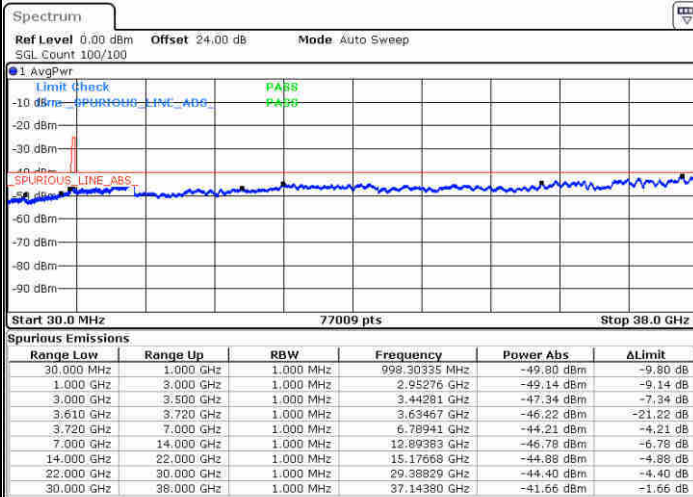
Date: 13 FEB 2020 01:23:12



Date: 13 FEB 2020 01:27:41

Lowest Channel / FullIRB

N/A



Date: 13 FEB 2020 01:29:48

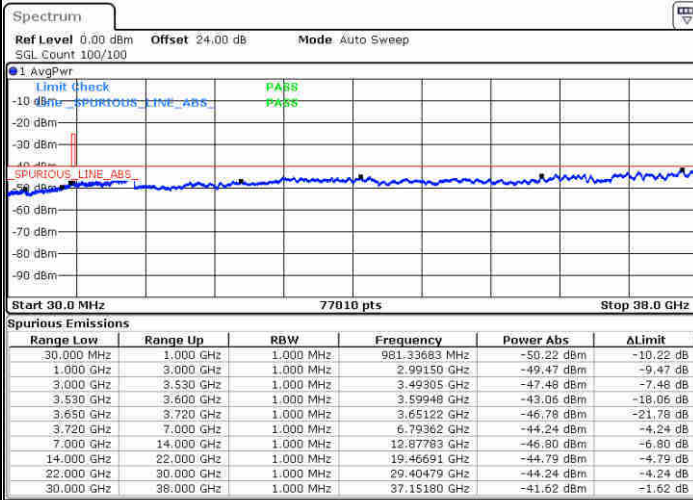


LTE Band 48 / 15MHz

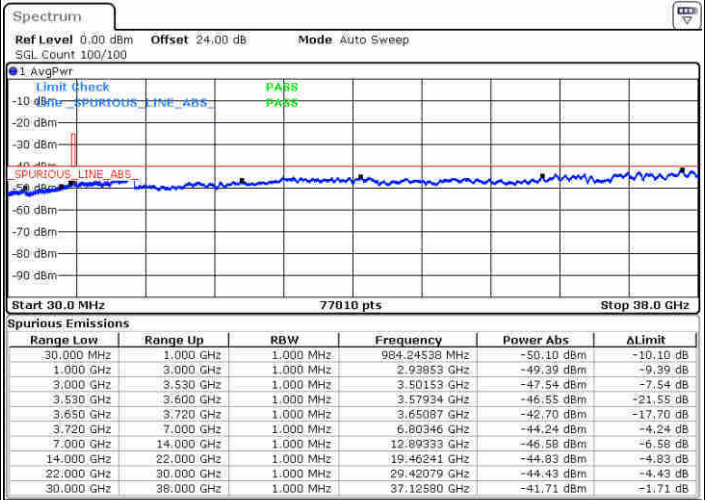
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



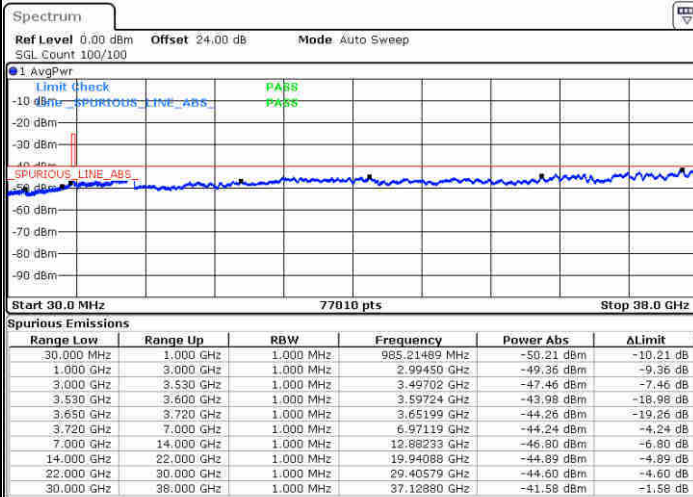
Date: 13 FEB 2020 03:38:25



Date: 13 FEB 2020 03:41:44

Middle Channel / FullIRB

N/A



Date: 13 FEB 2020 03:44:21

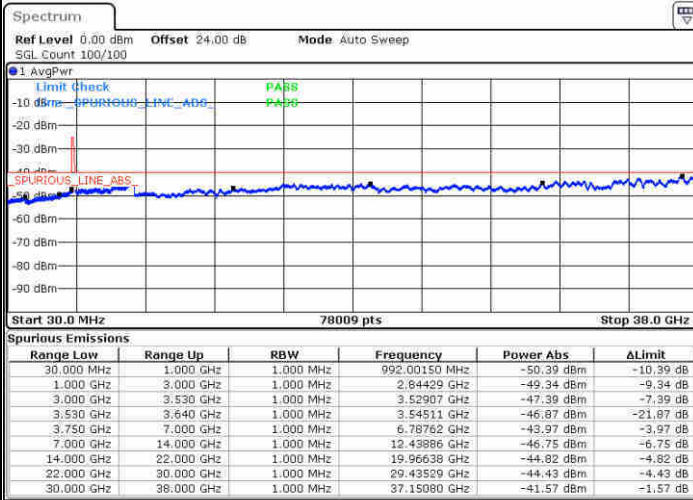


LTE Band 48 / 15MHz

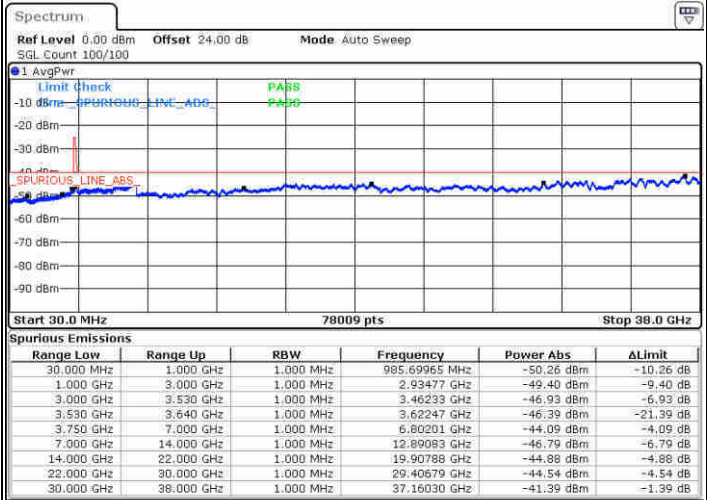
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



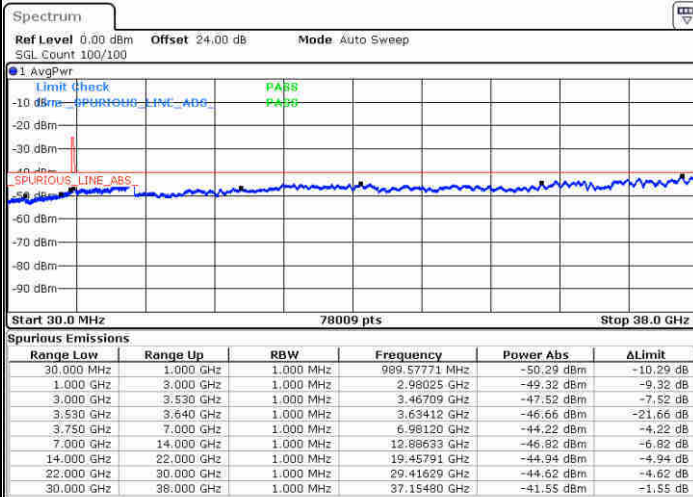
Date: 13 FEB 2020 04:43:09



Date: 13 FEB 2020 04:45:59

Highest Channel / FullIRB

N/A



Date: 13 FEB 2020 04:48:56

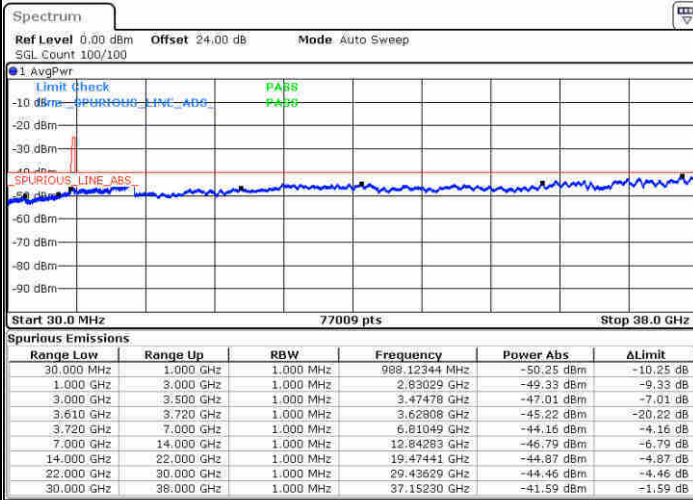


LTE Band 48 / 20MHz

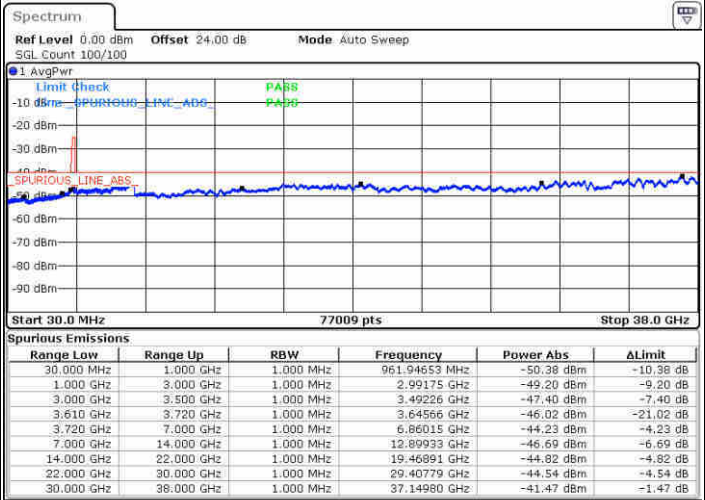
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



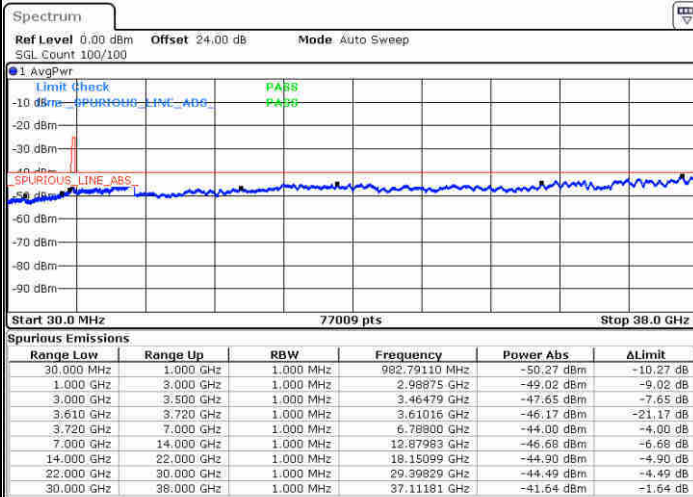
Date: 13 FEB 2020 05:46:59



Date: 13 FEB 2020 05:49:14

Lowest Channel / FullRB

N/A



Date: 13 FEB 2020 05:54:04

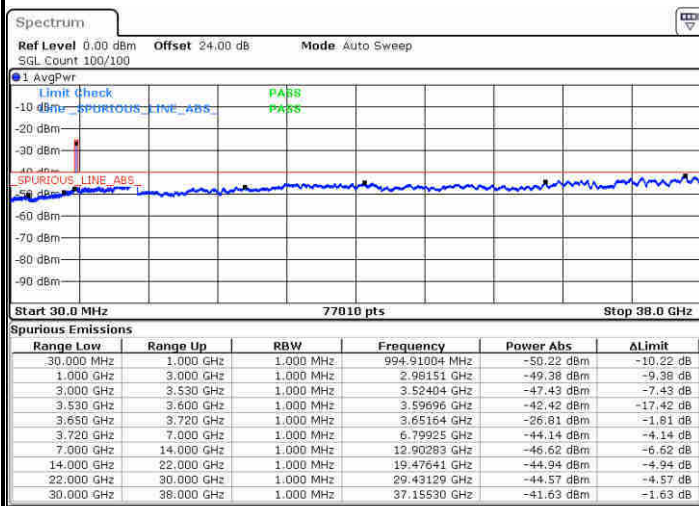


LTE Band 48 / 20MHz

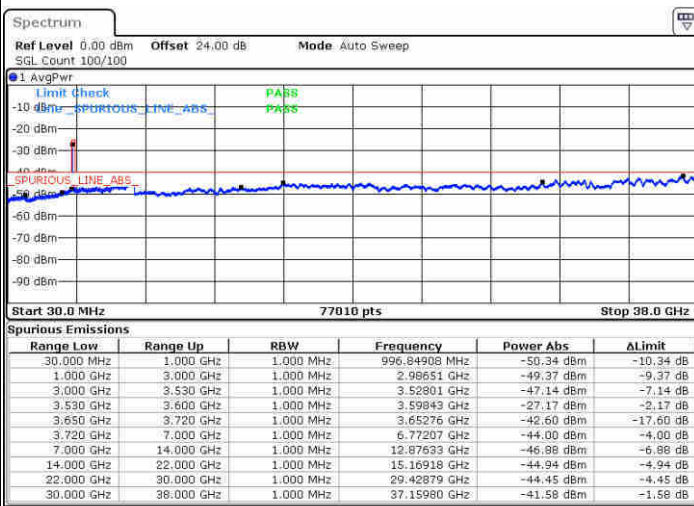
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



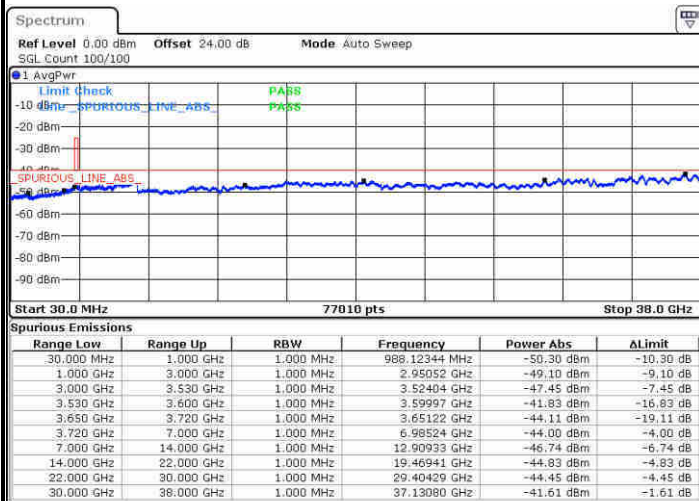
Date: 13 FEB 2020 06:43:49



Date: 13 FEB 2020 06:46:54

Middle Channel / FullIRB

N/A



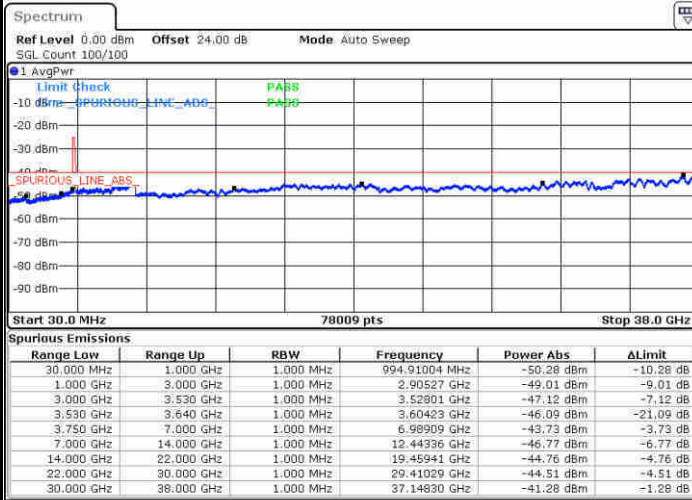
Date: 13 FEB 2020 06:49:27



LTE Band 48 / 20MHz

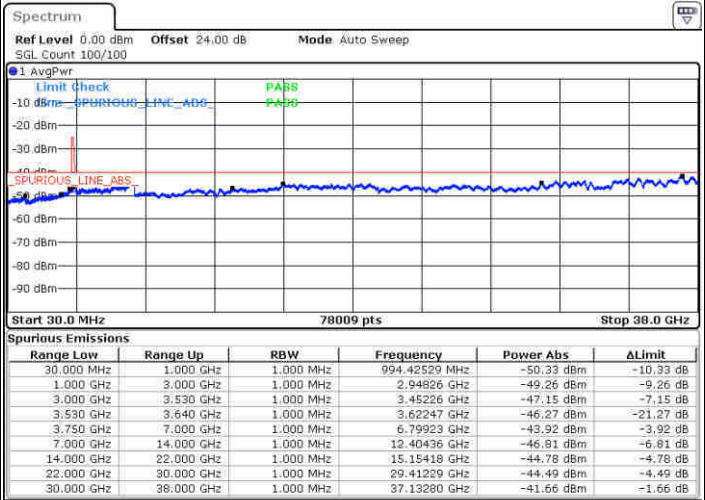
QPSK

Highest Channel / 1RB0



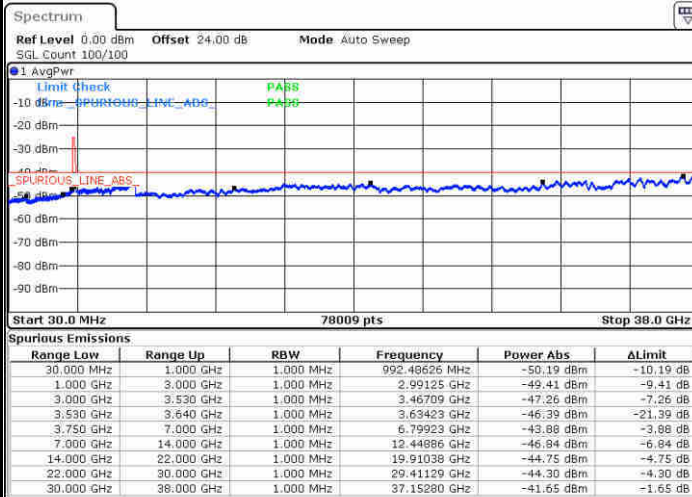
Date: 14.FEB.2020 01:59:26

Highest Channel / 1RBmax



Date: 14.FEB.2020 02:11:05

Highest Channel / FullIRB



Date: 14.FEB.2020 02:13:51

N/A

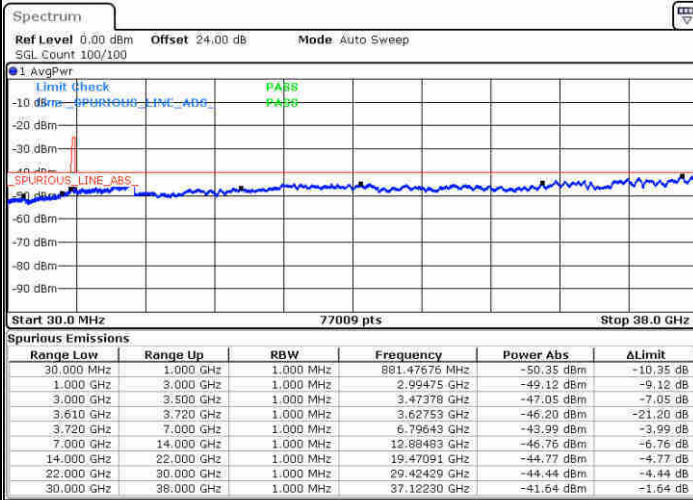


LTE Band 48 / 5MHz

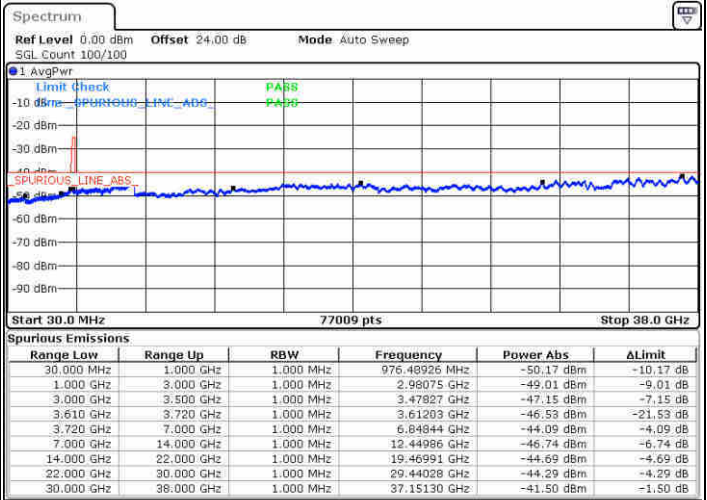
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



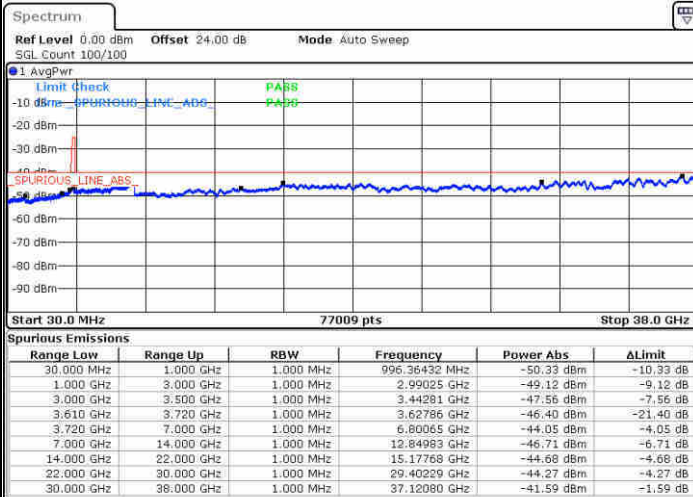
Date: 12 FEB 2020 03:13:04



Date: 12 FEB 2020 03:25:48

Lowest Channel / FullIRB

N/A



Date: 12 FEB 2020 03:36:59

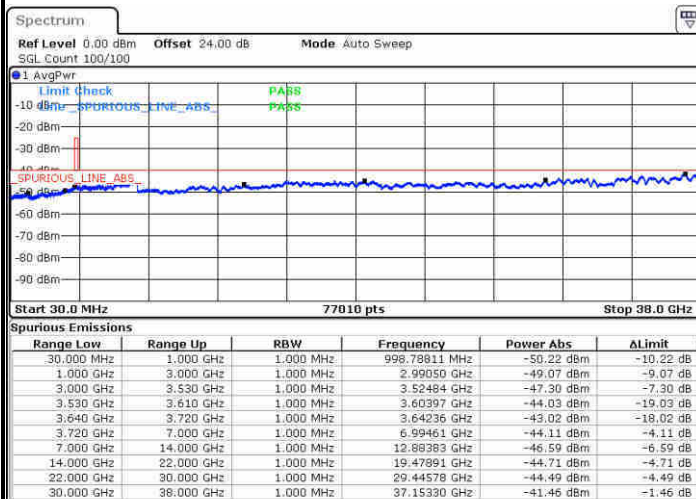


LTE Band 48 / 5MHz

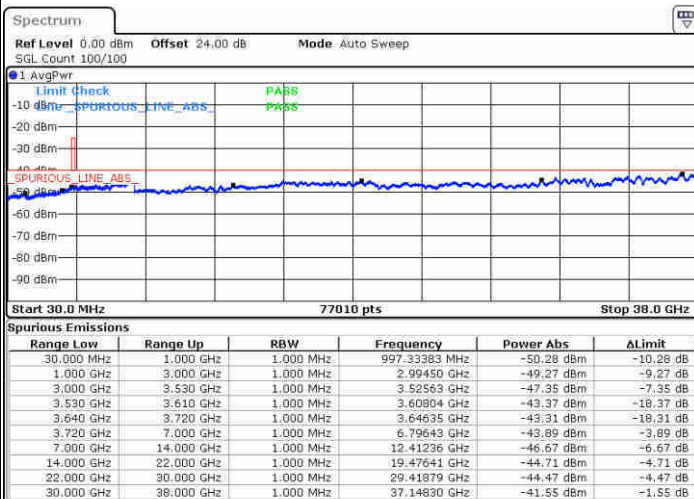
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



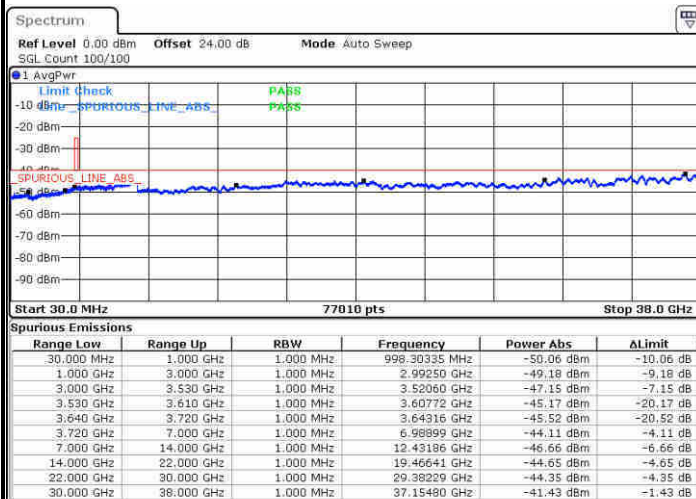
Date: 12 FEB 2020 04:15:40



Date: 12 FEB 2020 04:21:15

Middle Channel / FullIRB

N/A



Date: 12 FEB 2020 04:13:02

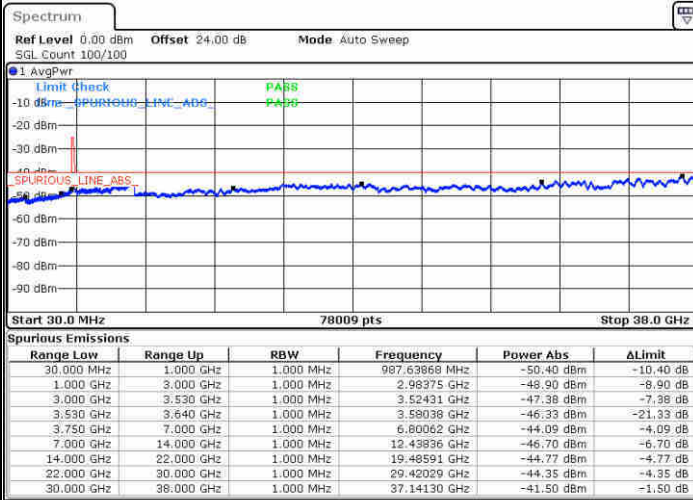


LTE Band 48 / 5MHz

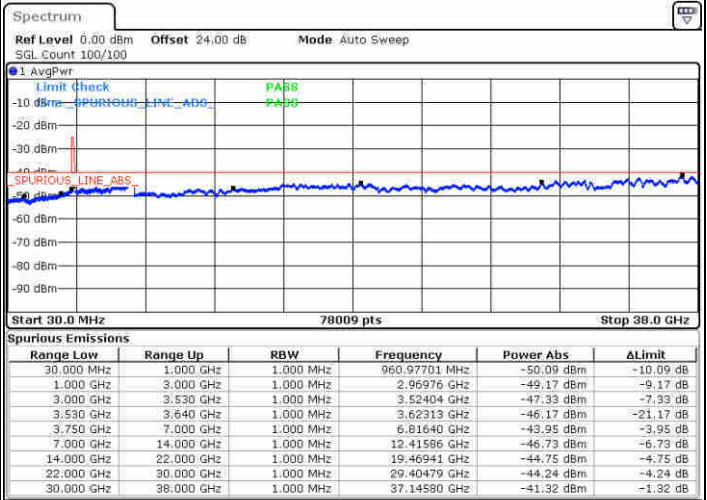
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



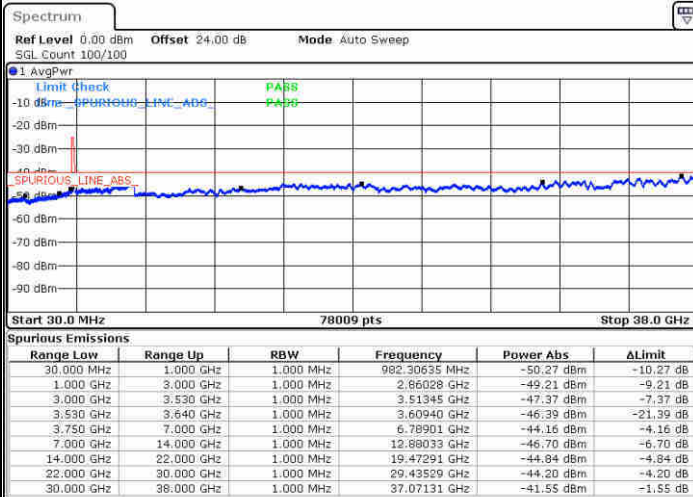
Date: 12 FEB 2020 05:25:13



Date: 12 FEB 2020 05:27:39

Highest Channel / FullIRB

N/A



Date: 12 FEB 2020 05:21:24

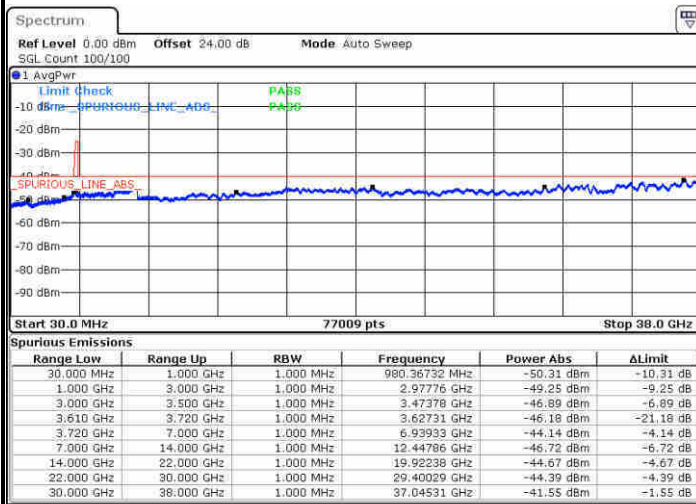


LTE Band 48 / 10MHz

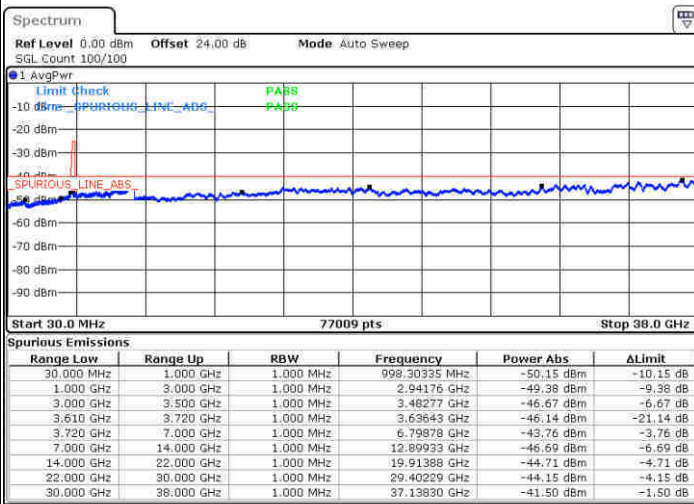
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



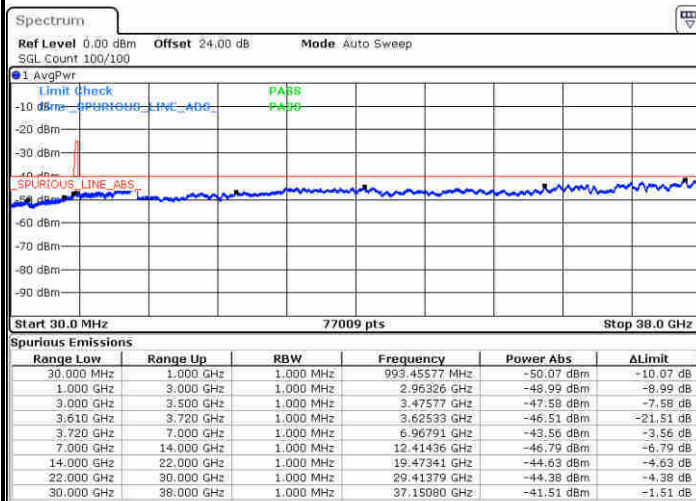
Date: 12 FEB 2020 06:46:23



Date: 12 FEB 2020 06:48:21

Lowest Channel / FullIRB

N/A



Date: 12 FEB 2020 06:43:05

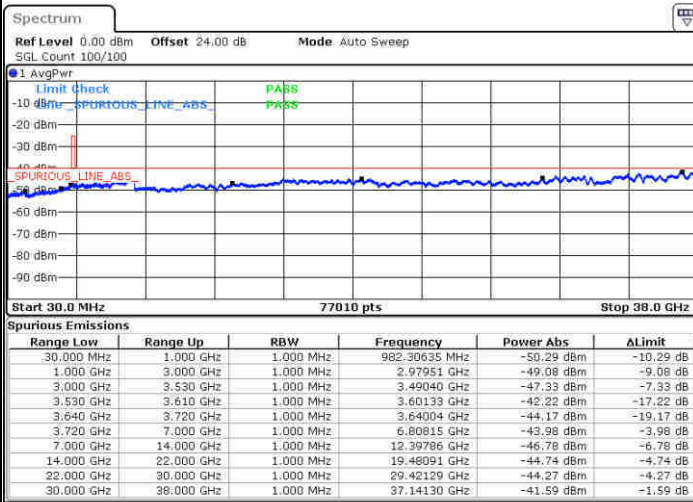


LTE Band 48 / 10MHz

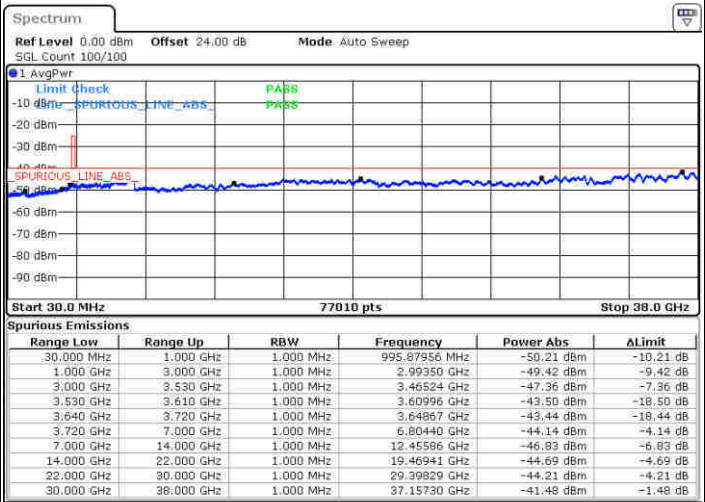
16QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



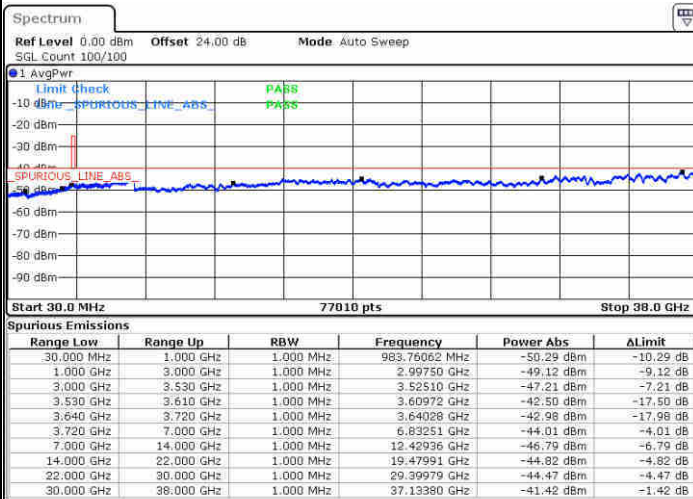
Date: 12 FEB 2020 07:27:34



Date: 12 FEB 2020 07:32:10

Middle Channel / FullIRB

N/A



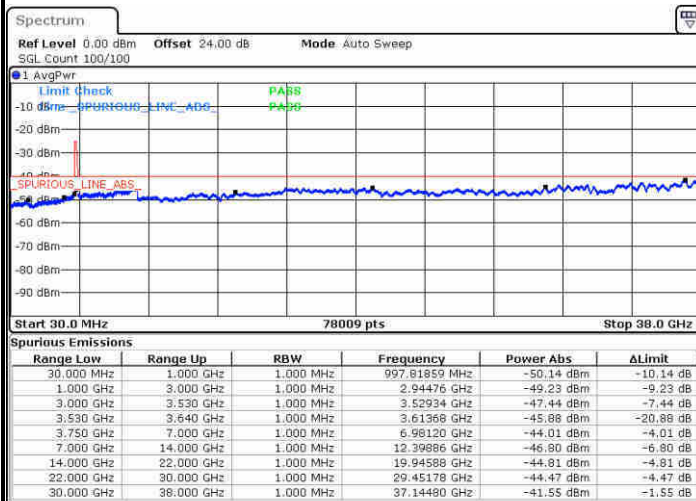
Date: 12 FEB 2020 07:25:10



LTE Band 48 / 10MHz

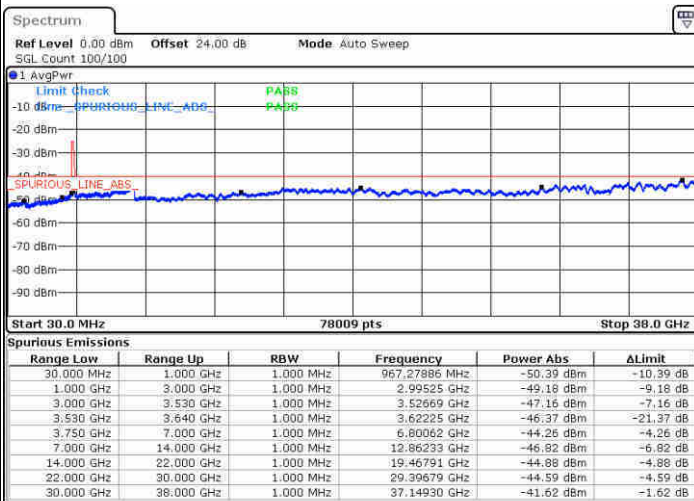
16QAM

Highest Channel / 1RB0



Date: 13 FEB 2020 00:26:34

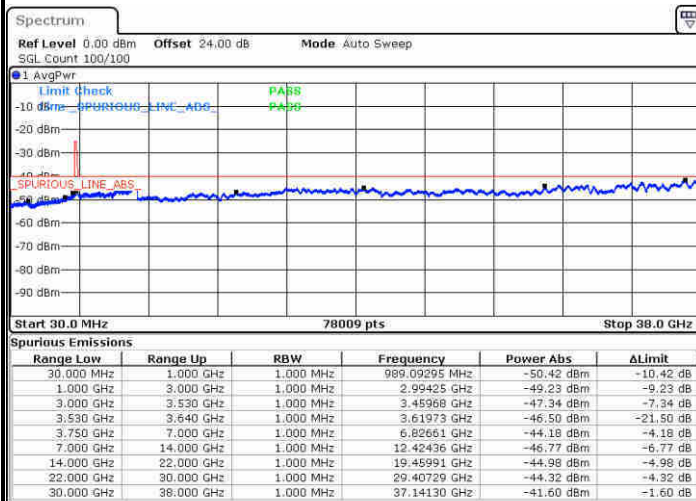
Highest Channel / 1RBmax



Date: 13 FEB 2020 00:32:37

Highest Channel / FullIRB

N/A



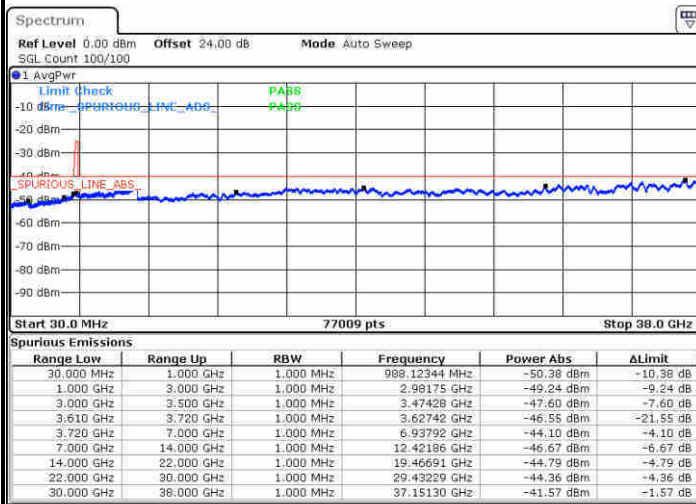
Date: 13 FEB 2020 00:23:02



LTE Band 48 / 15MHz

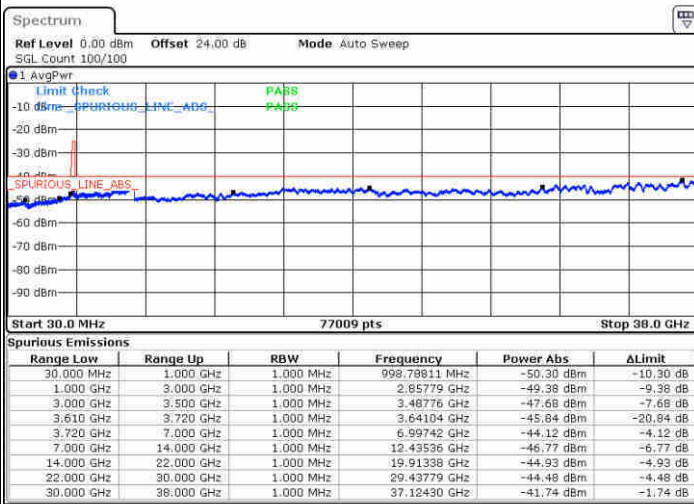
16QAM

Lowest Channel / 1RB0



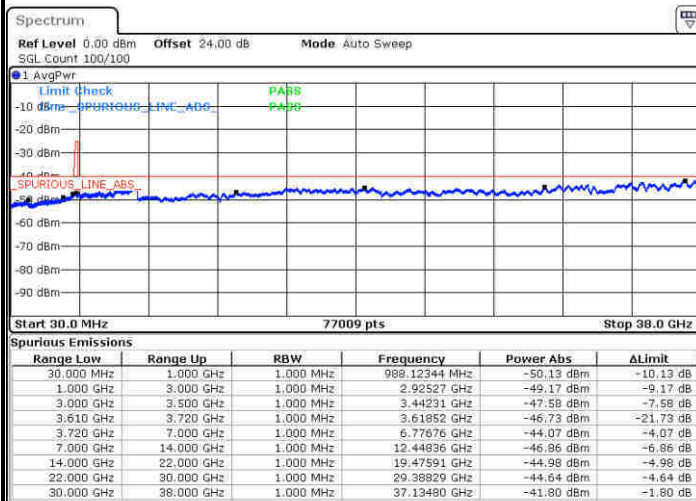
Date: 13 FEB 2020 02:42:21

Lowest Channel / 1RBmax



Date: 13 FEB 2020 02:47:17

Lowest Channel / FullIRB



Date: 13 FEB 2020 02:29:33

N/A

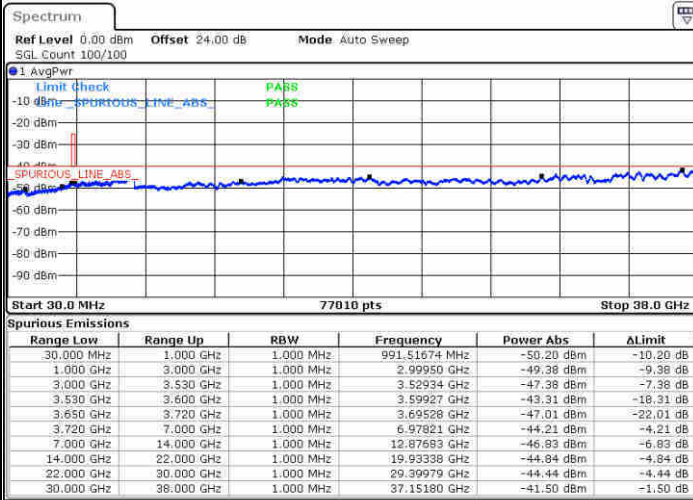


LTE Band 48 / 15MHz

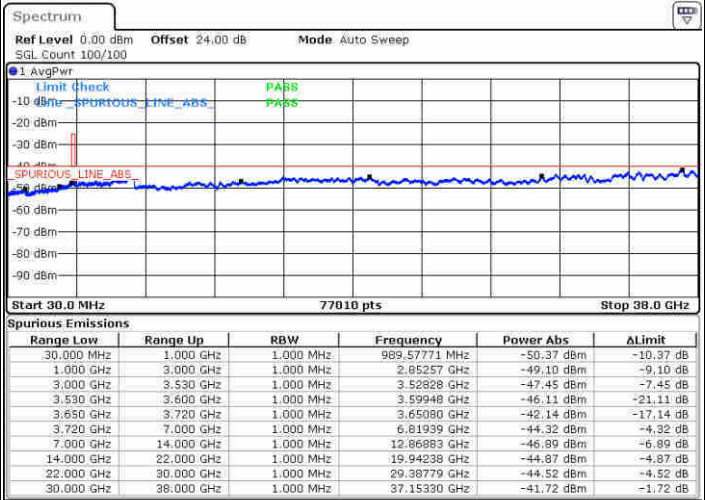
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



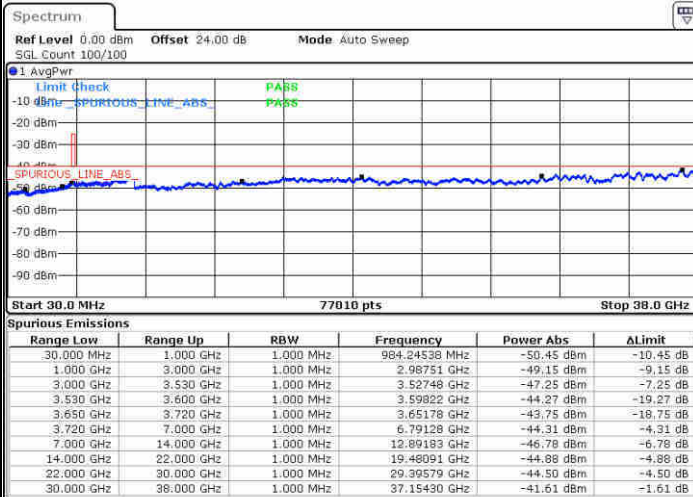
Date: 13 FEB 2020 03:54:48



Date: 13 FEB 2020 03:57:50

Middle Channel / FullIRB

N/A



Date: 13 FEB 2020 03:50:10

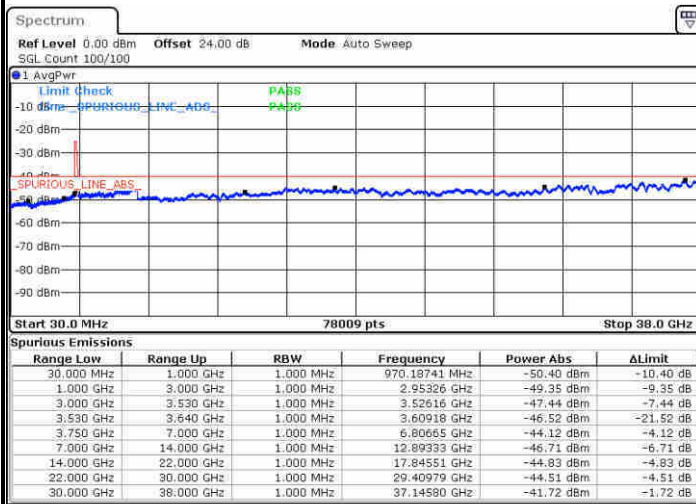


LTE Band 48 / 15MHz

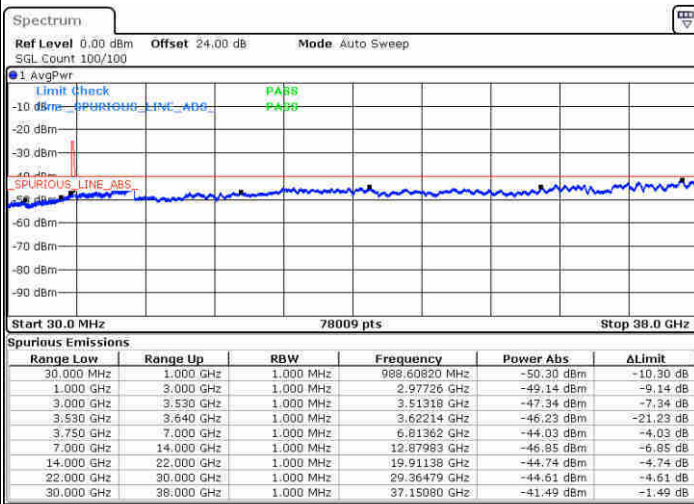
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



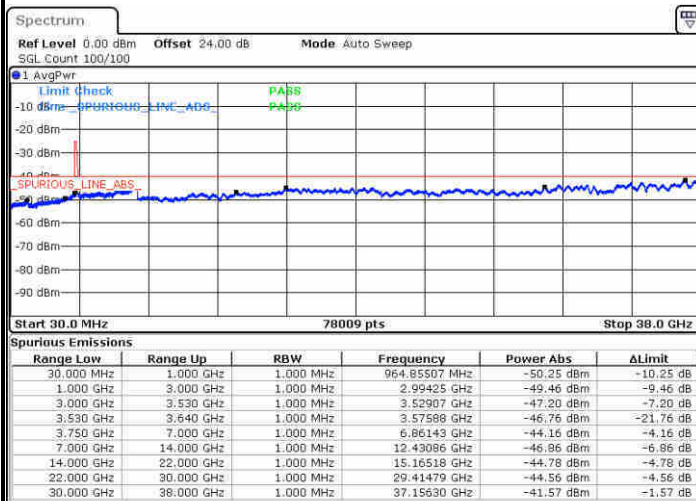
Date: 13 FEB 2020 05:14:41



Date: 13 FEB 2020 05:17:35

Highest Channel / FullIRB

N/A



Date: 13 FEB 2020 04:53:20

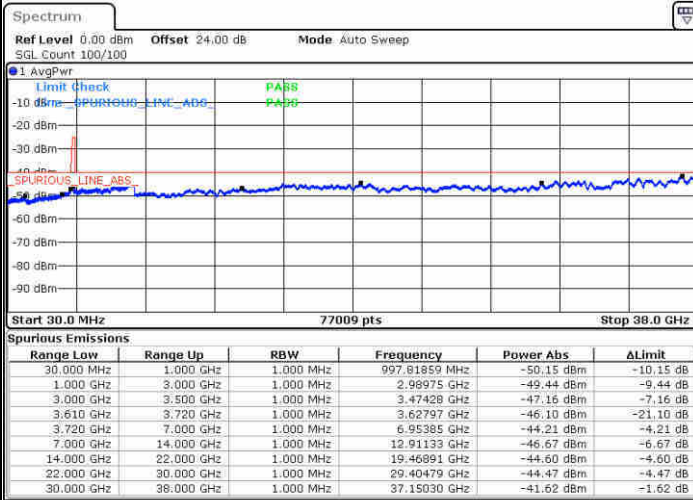


LTE Band 48 / 20MHz

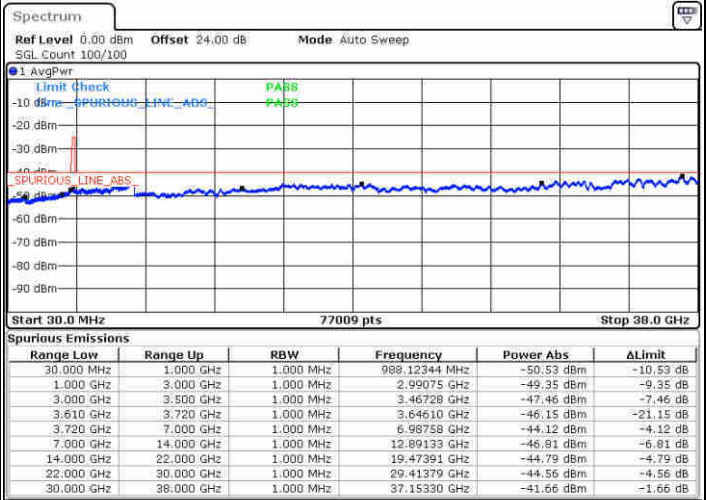
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



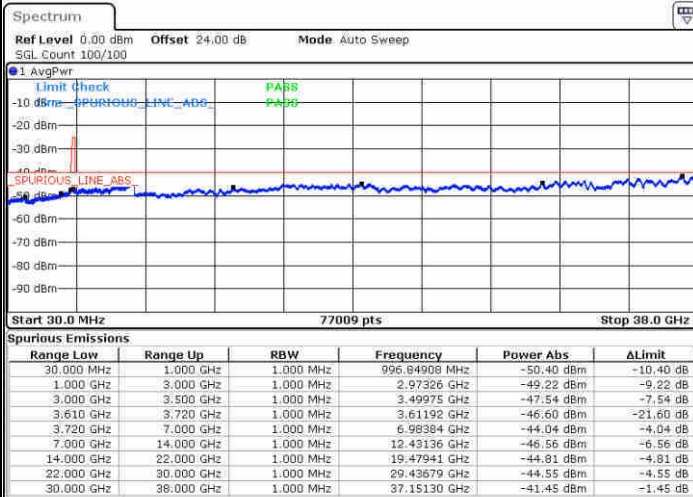
Date: 13 FEB 2020 06:07:18



Date: 13 FEB 2020 06:09:40

Lowest Channel / FullRB

N/A



Date: 13 FEB 2020 05:58:57

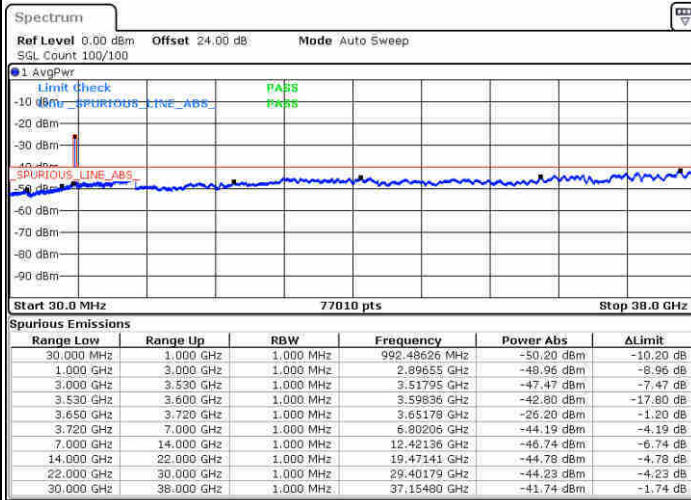


LTE Band 48 / 20MHz

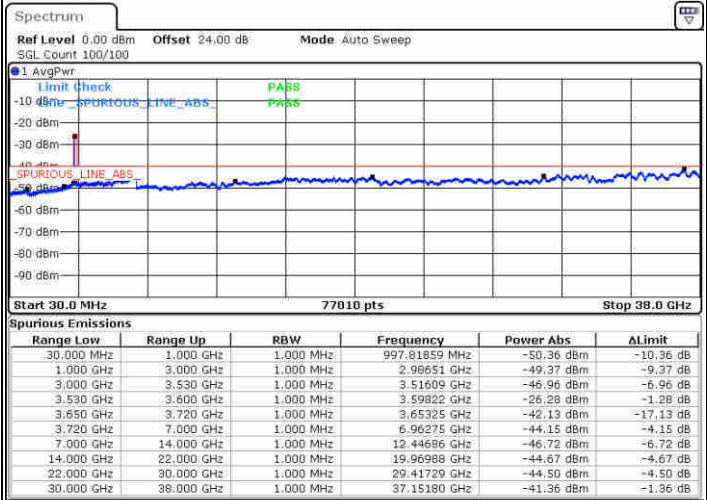
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



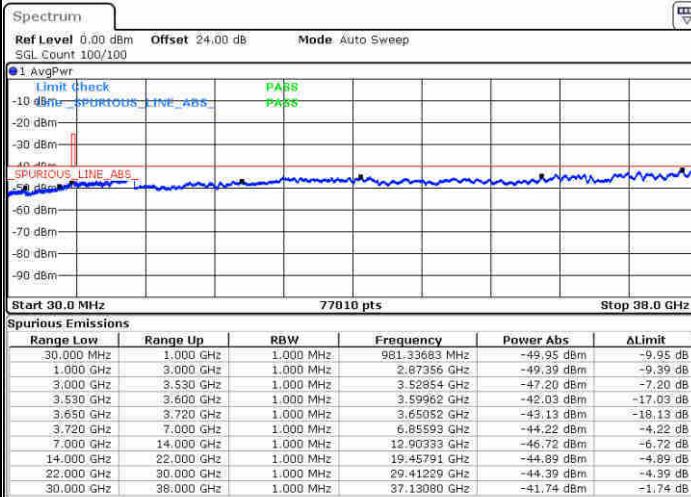
Date: 13 FEB 2020 07:15:15



Date: 13 FEB 2020 07:17:48

Middle Channel / FullIRB

N/A



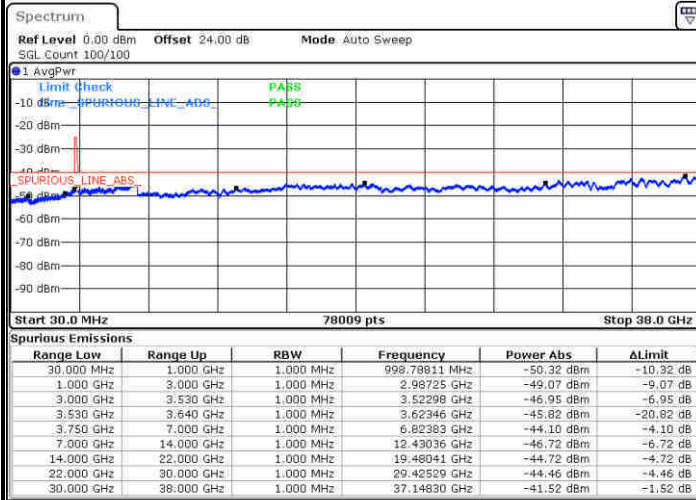
Date: 13 FEB 2020 08:56:22



LTE Band 48 / 20MHz

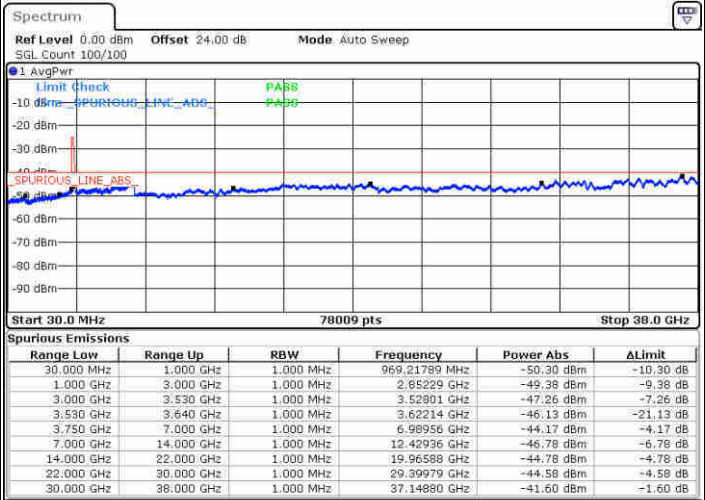
16QAM

Highest Channel / 1RB0



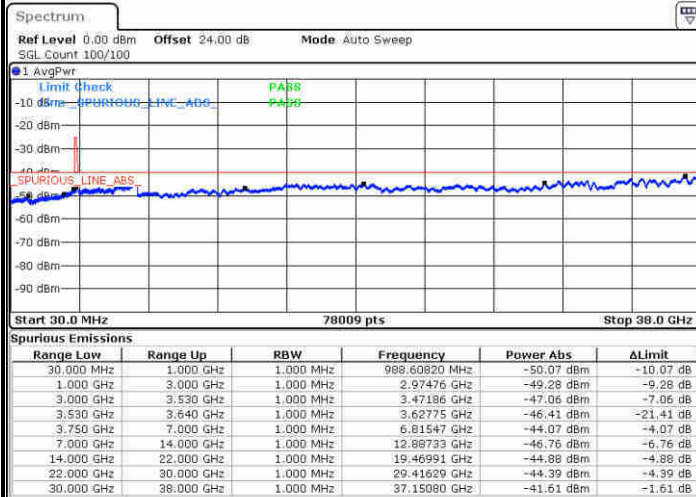
Date: 14 FEB 2020 02:40:05

Highest Channel / 1RBmax



Date: 14 FEB 2020 02:48:23

Highest Channel / FullIRB



Date: 14 FEB 2020 02:21:35

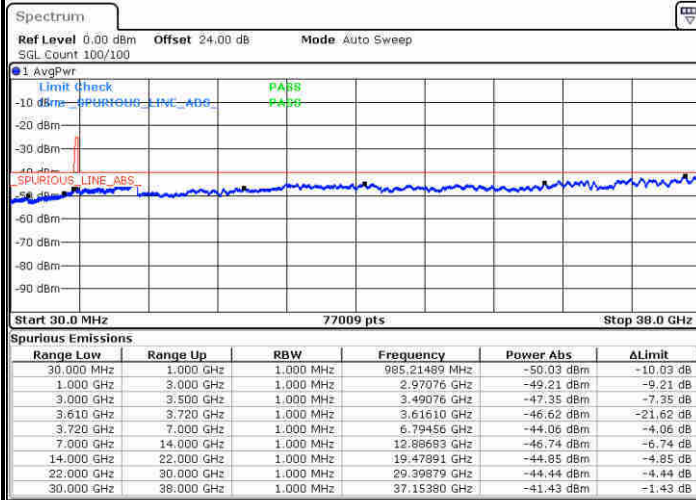
N/A



LTE Band 48 / 5MHz

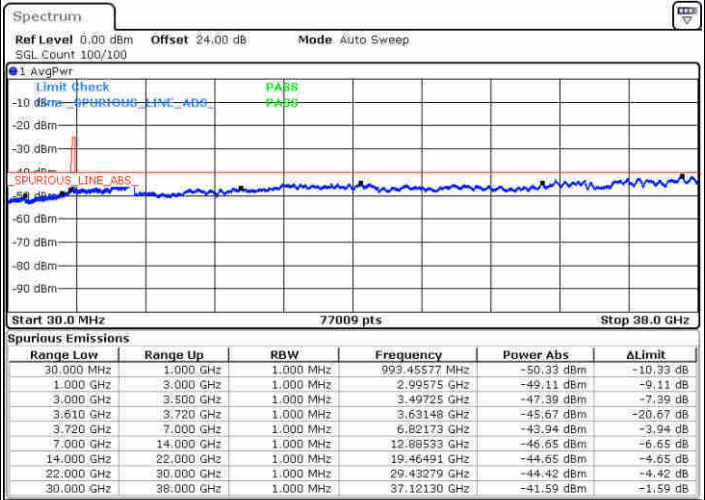
64QAM

Lowest Channel / 1RB0



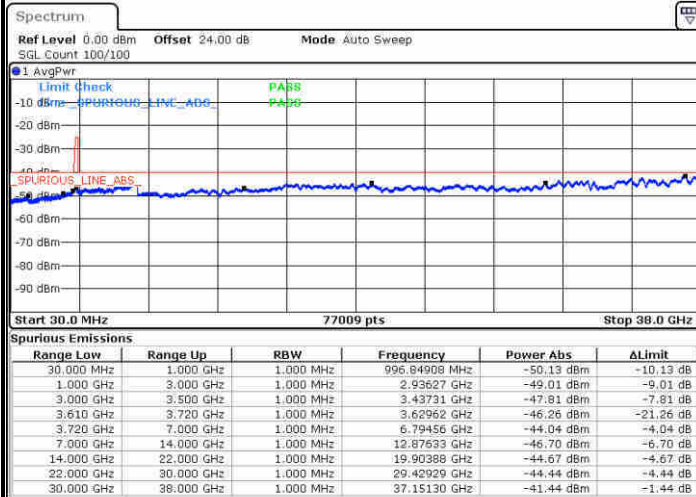
Date: 12 FEB 2020 03:49:46

Lowest Channel / 1RBmax



Date: 12 FEB 2020 03:45:39

Lowest Channel / FullIRB



Date: 12 FEB 2020 03:43:22

N/A

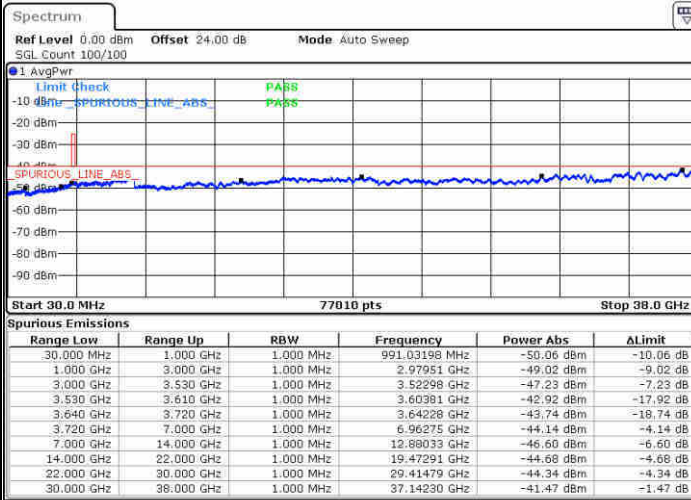


LTE Band 48 / 5MHz

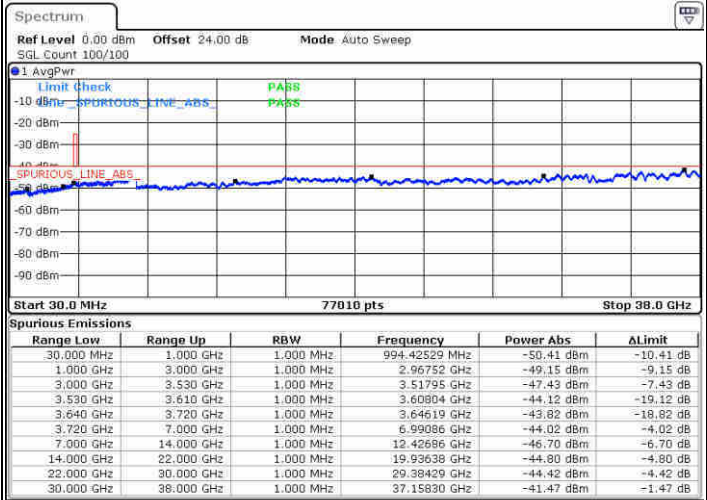
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



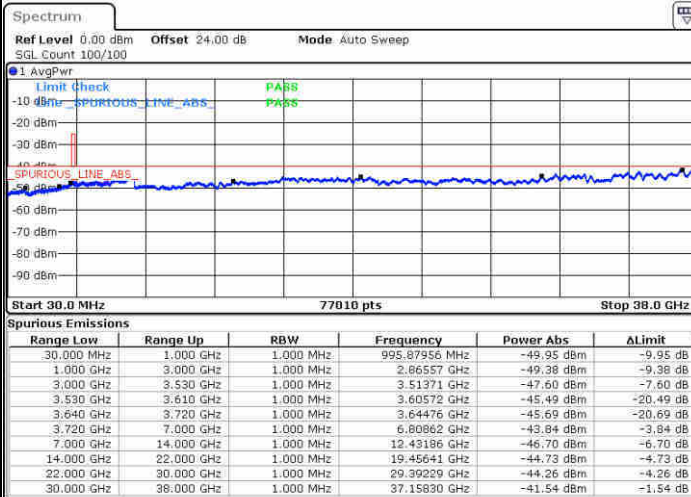
Date: 12 FEB 2020 04:26:37



Date: 12 FEB 2020 04:28:47

Middle Channel / FullIRB

N/A



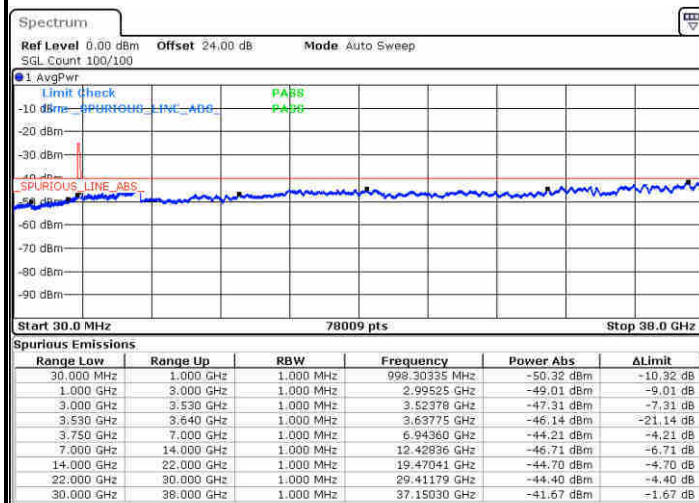
Date: 12 FEB 2020 04:31:51



LTE Band 48 / 5MHz

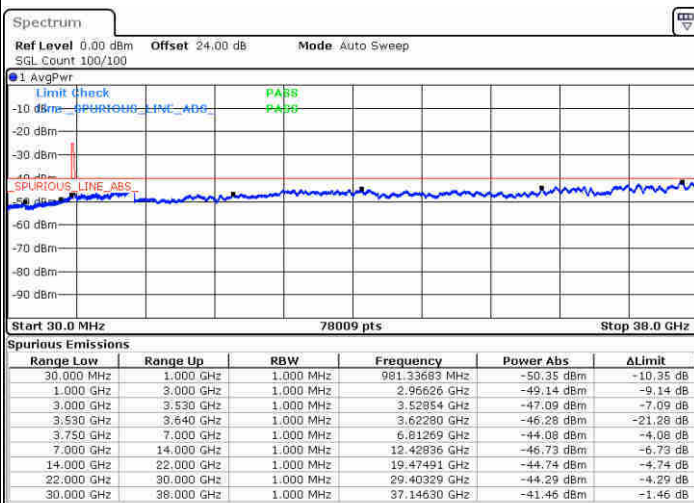
64QAM

Highest Channel / 1RB0



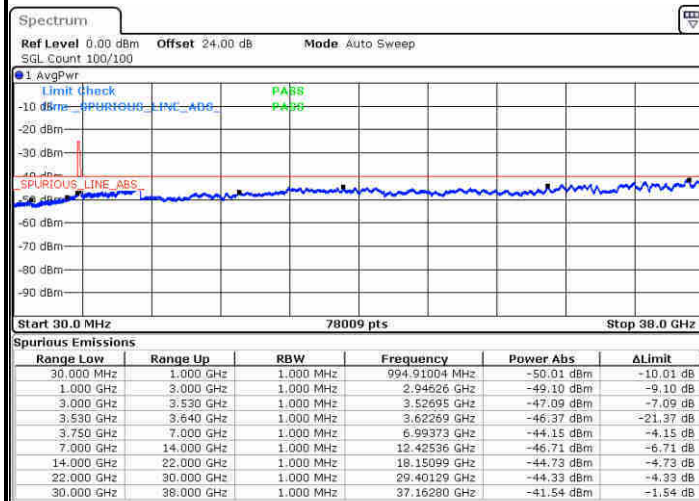
Date: 12 FEB 2020 05:30:02

Highest Channel / 1RBmax



Date: 12 FEB 2020 05:32:27

Highest Channel / FullIRB



Date: 12 FEB 2020 05:34:38

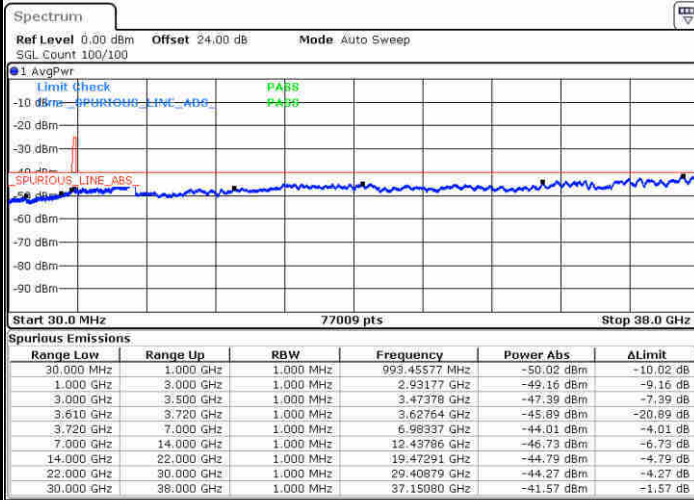
N/A



LTE Band 48 / 10MHz

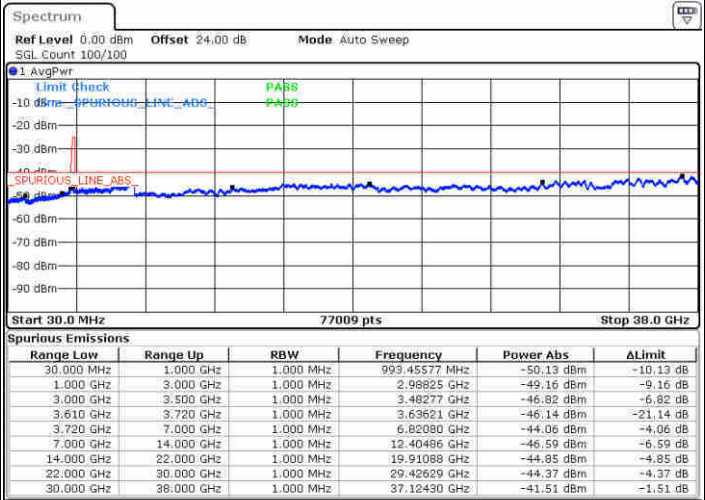
64QAM

Lowest Channel / 1RB0



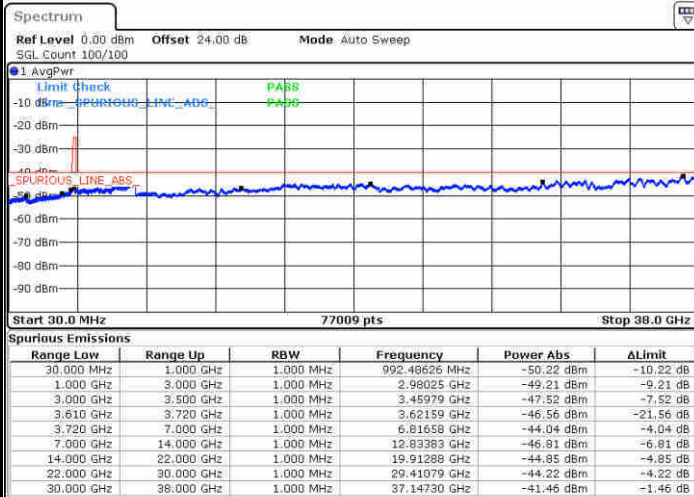
Date: 12 FEB 2020 06:53:53

Lowest Channel / 1RBmax



Date: 12 FEB 2020 06:56:44

Lowest Channel / FullIRB



Date: 12 FEB 2020 06:51:09

N/A

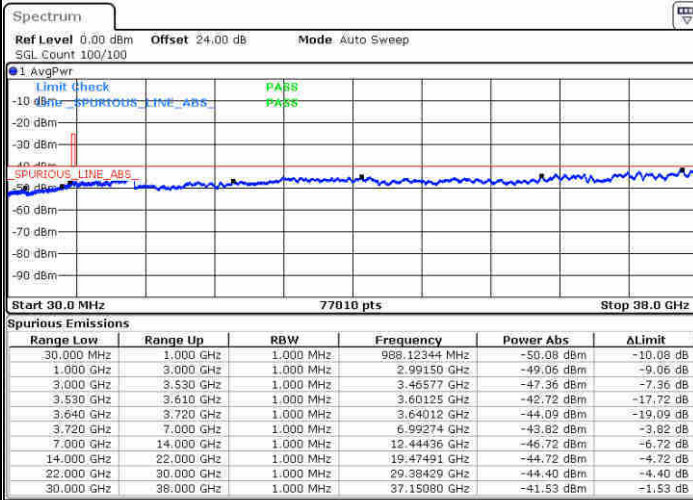


LTE Band 48 / 10MHz

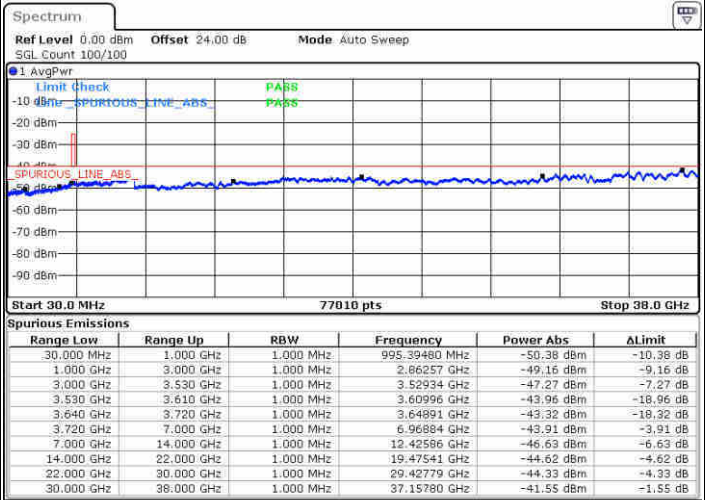
64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



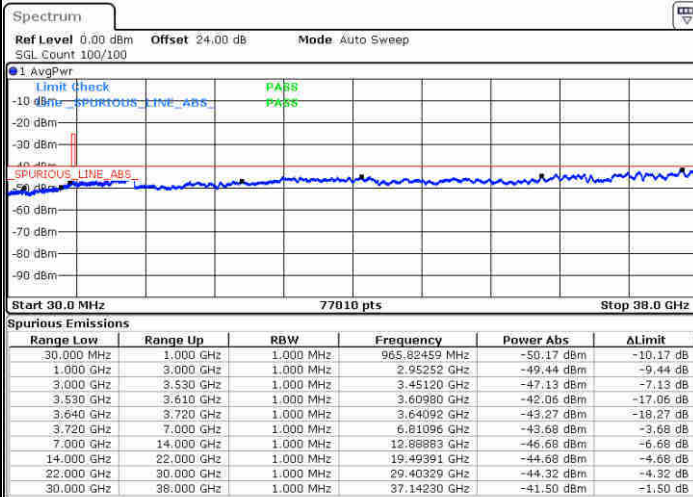
Date: 12 FEB 2020 07:35:10



Date: 12 FEB 2020 07:37:29

Middle Channel / FullIRB

N/A



Date: 12 FEB 2020 07:39:55

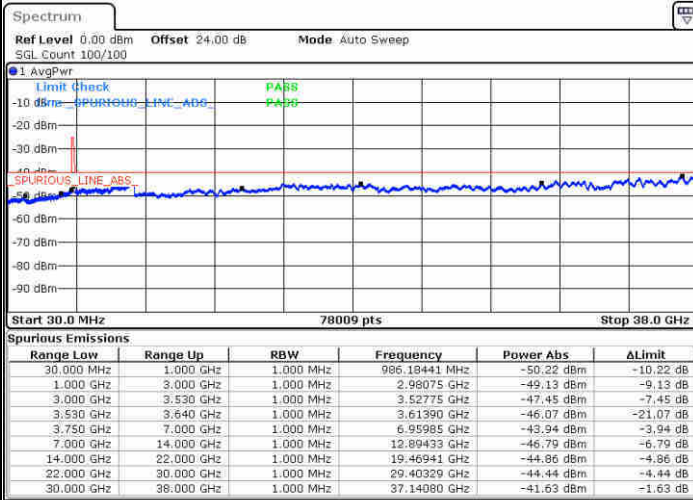


LTE Band 48 / 10MHz

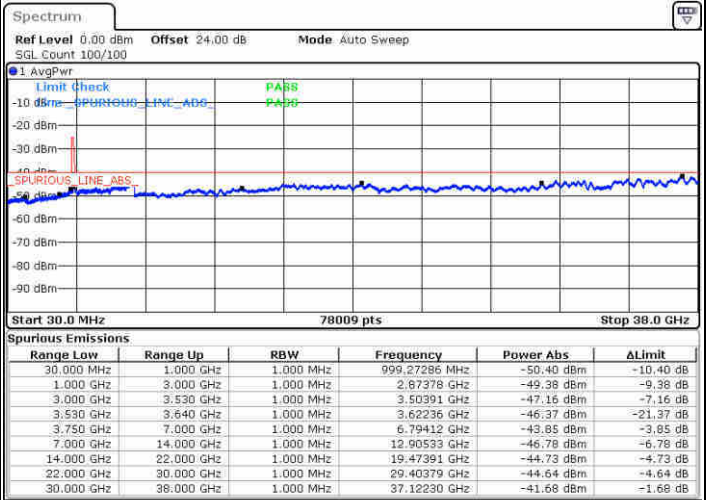
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



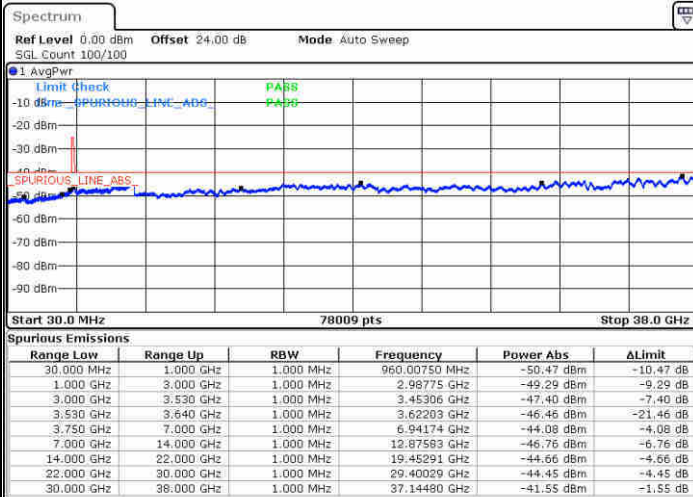
Date: 13 FEB 2020 00:36:30



Date: 13 FEB 2020 00:38:29

Highest Channel / FullIRB

N/A



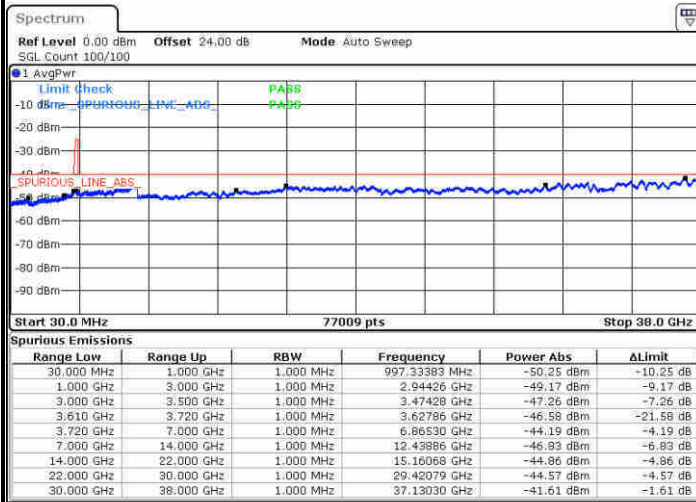
Date: 13 FEB 2020 00:41:27



LTE Band 48 / 15MHz

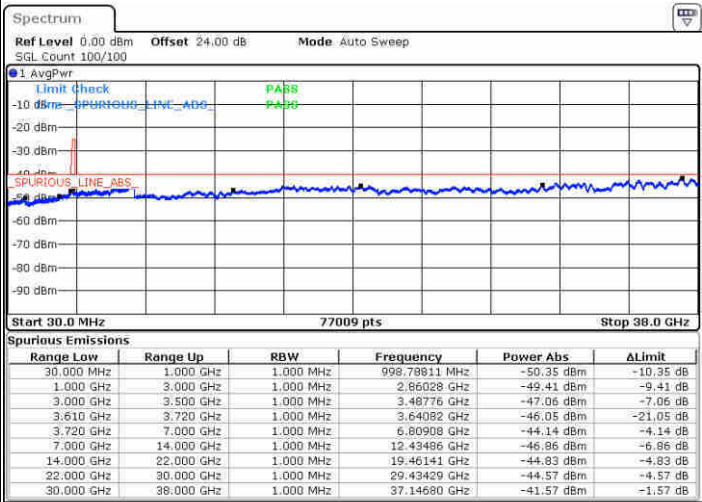
64QAM

Lowest Channel / 1RB0



Date: 13 FEB 2020 02:50:59

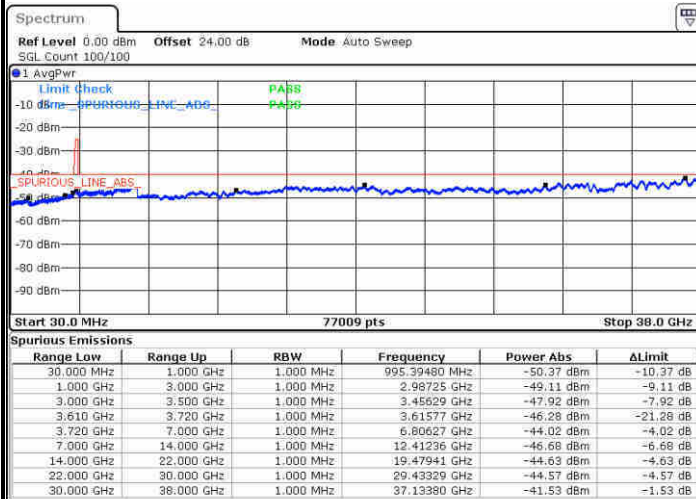
Lowest Channel / 1RBmax



Date: 13 FEB 2020 02:56:10

Lowest Channel / FullRB

N/A



Date: 13 FEB 2020 03:00:27

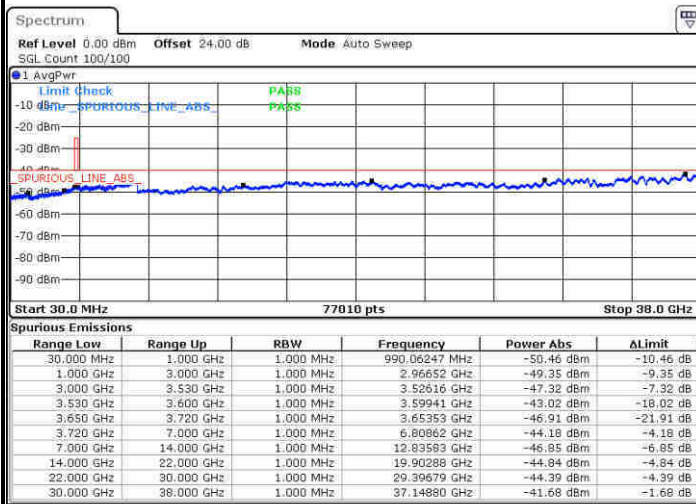


LTE Band 48 / 15MHz

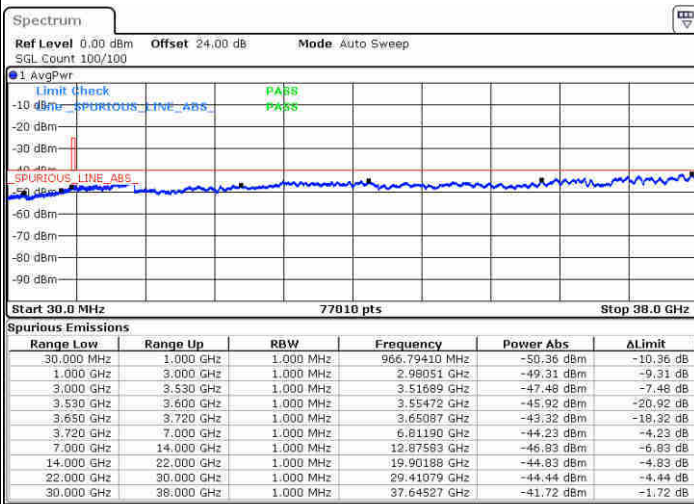
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



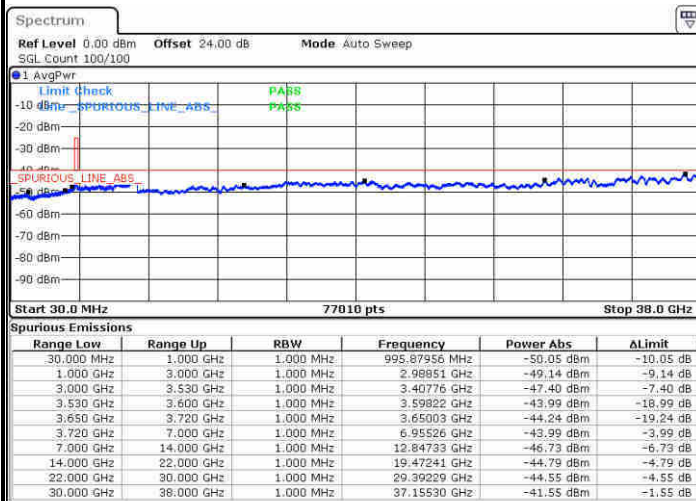
Date: 13 FEB 2020 04:05:44



Date: 13 FEB 2020 04:10:16

Middle Channel / FullIRB

N/A



Date: 13 FEB 2020 04:13:37

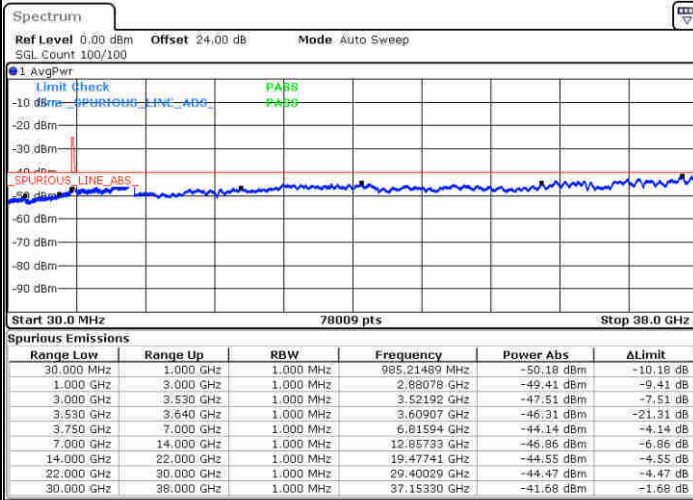


LTE Band 48 / 15MHz

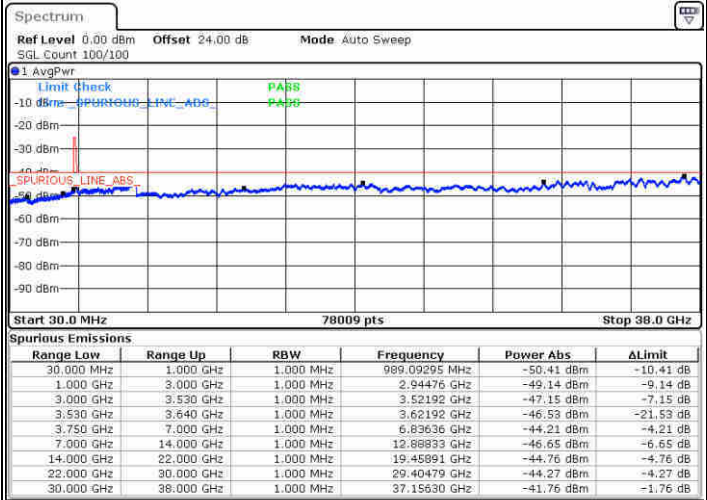
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



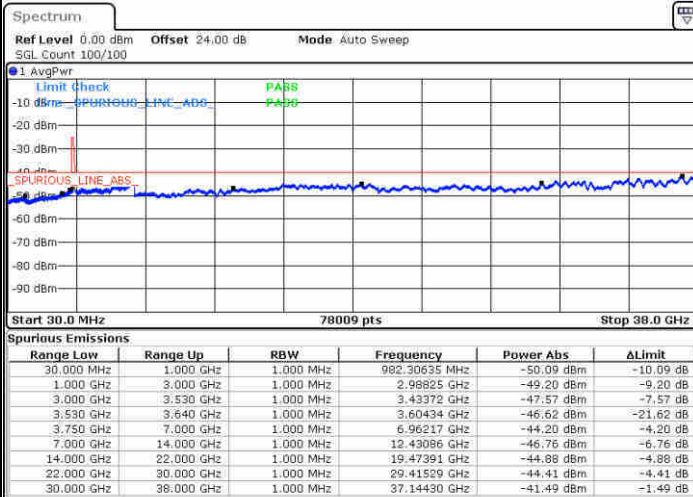
Date: 13 FEB 2020 05:19:59



Date: 13 FEB 2020 05:22:58

Highest Channel / FullIRB

N/A



Date: 13 FEB 2020 05:26:38

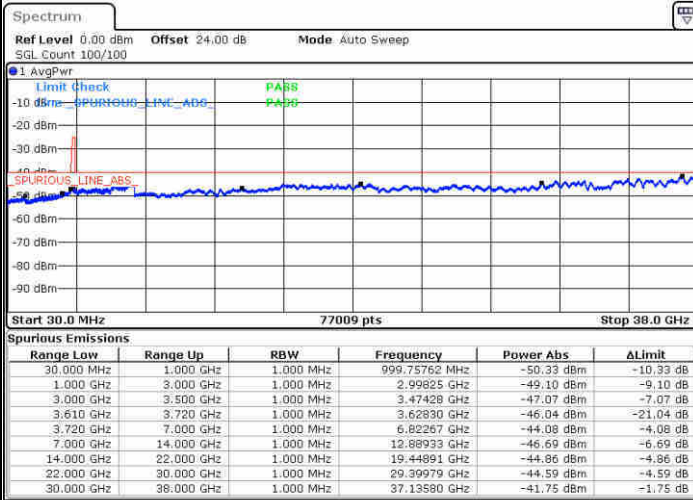


LTE Band 48 / 20MHz

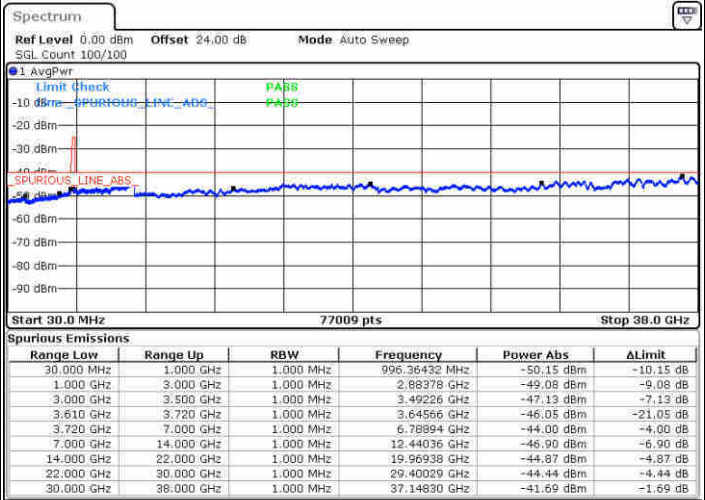
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



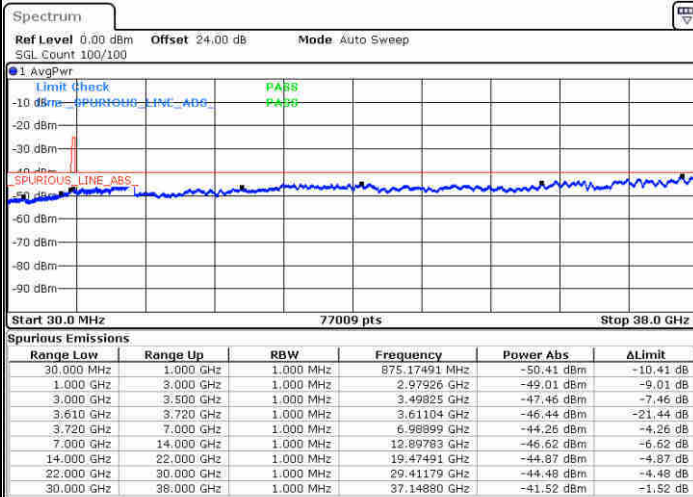
Date: 13 FEB 2020 06:13:18



Date: 13 FEB 2020 06:15:47

Lowest Channel / FullRB

N/A



Date: 13 FEB 2020 06:20:48

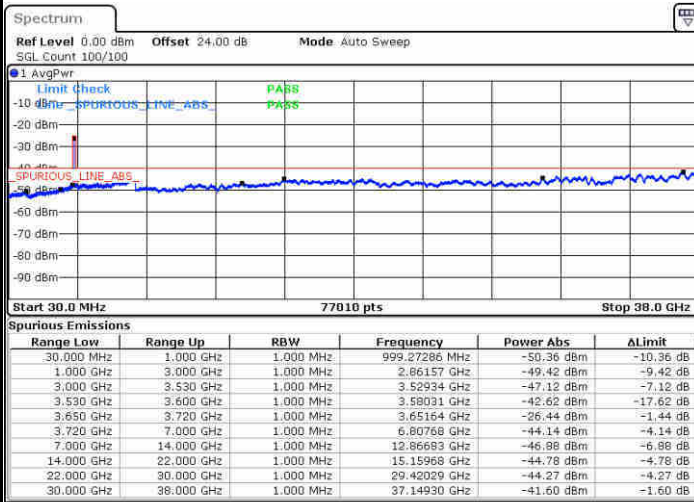


LTE Band 48 / 20MHz

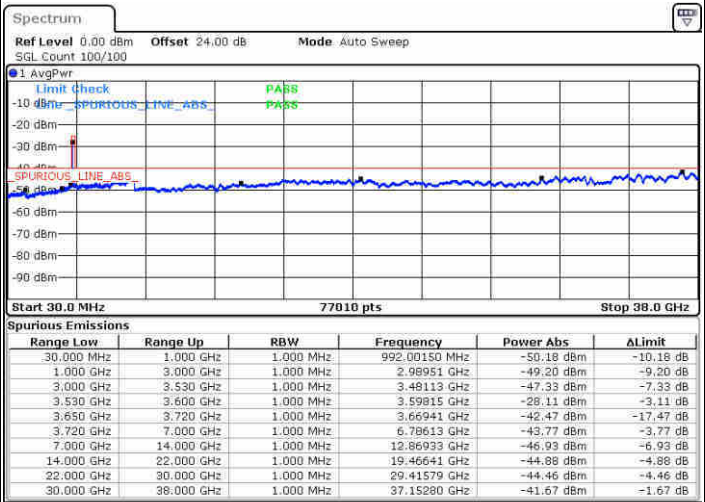
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



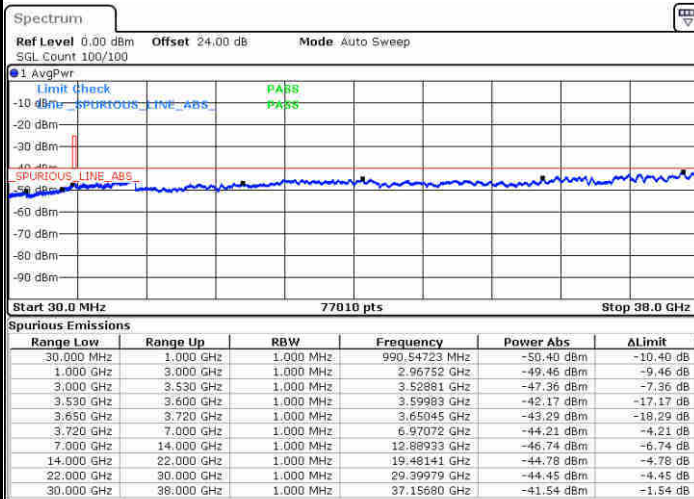
Date: 13 FEB 2020 07:20:32



Date: 13 FEB 2020 07:27:44

Middle Channel / FullIRB

N/A



Date: 13 FEB 2020 07:34:23

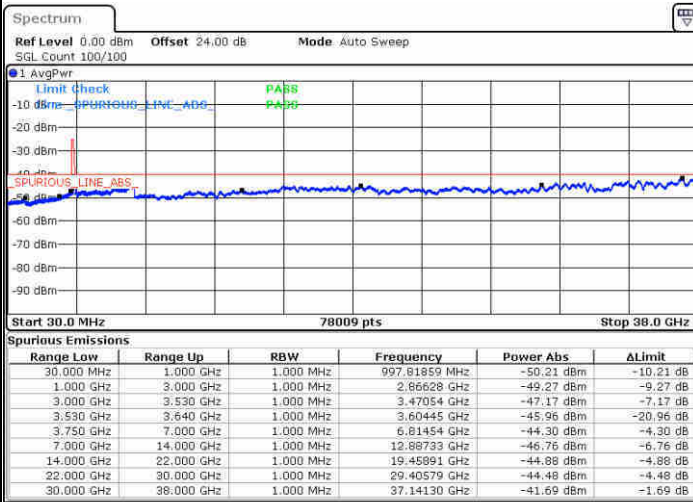


LTE Band 48 / 20MHz

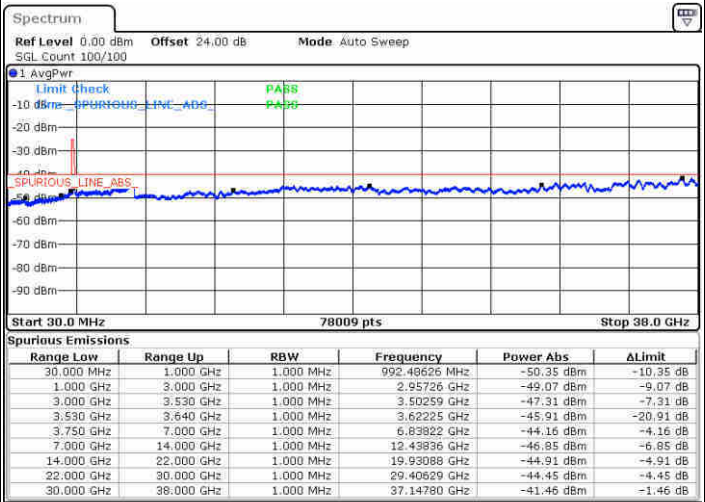
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



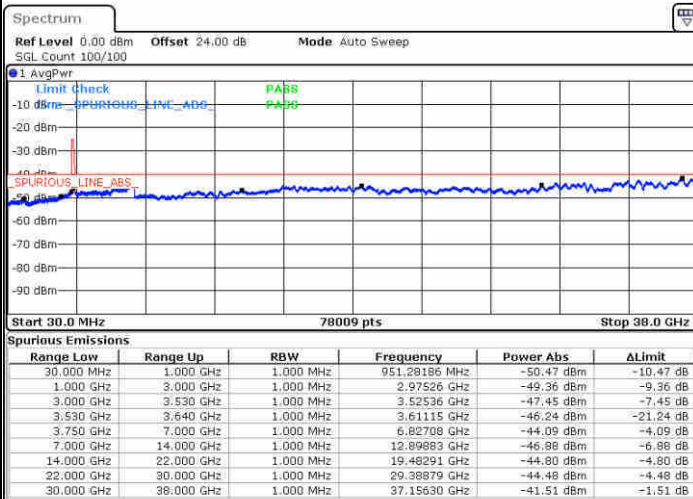
Date: 14.FEB.2020 02:54:15



Date: 14.FEB.2020 02:57:18

Highest Channel / FullIRB

N/A



Date: 14.FEB.2020 02:59:59

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	0.0011	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =110 V. ; Battery End Point (BEP) =100 V. ; Maximum Voltage =120 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**EIRP Power Density**

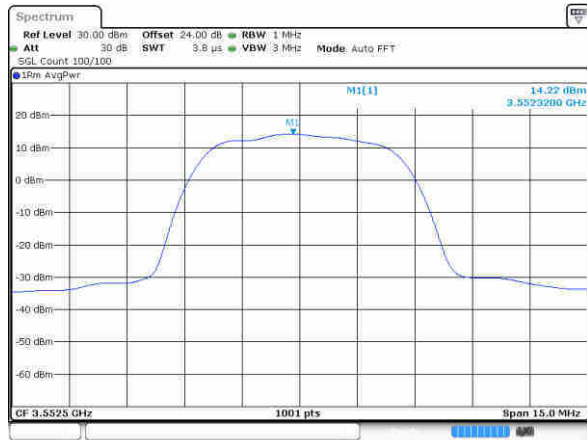
Mode	LTE Band 48 : Conducted Power Density (dBm/MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	14.22	14.96	12.52	11.53	10.5	10.06	9.36	8.79
Middle CH	-	-	-	-	13.83	14.12	11.86	11.72	9.65	9.24	8.93	8.67
Highest CH	-	-	-	-	13.71	13.49	10.52	11.44	10.48	9.25	7.89	8.14
Mode	LTE Band 48 : Conducted Power Density (dBm/MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	14.28	-	12.88	-	9.38	-	9.71	-
Middle CH	-	-	-	-	13.21	-	12.3	-	9.9	-	9.35	-
Highest CH	-	-	-	-	13.07	-	11.09	-	9.29	-	8.79	-

Mode	LTE Band 48 : EIRP Power Density (dBm/MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	29.22	29.96	27.52	26.53	25.5	25.06	24.36	23.79
Middle CH	-	-	-	-	28.83	29.12	26.86	26.72	24.65	24.24	23.93	23.67
Highest CH	-	-	-	-	28.71	28.49	25.52	26.44	25.48	24.25	22.89	23.14
Mode	LTE Band 48 : EIRP Power Density (dBm/MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	29.28	-	27.88	-	24.38	-	24.71	-
Middle CH	-	-	-	-	28.21	-	27.3	-	24.9	-	24.35	-
Highest CH	-	-	-	-	28.07	-	26.09	-	24.29	-	23.79	-
Antenna Gain	15 dBi											
Limit	37dBm / MHz											
Result	Pass											



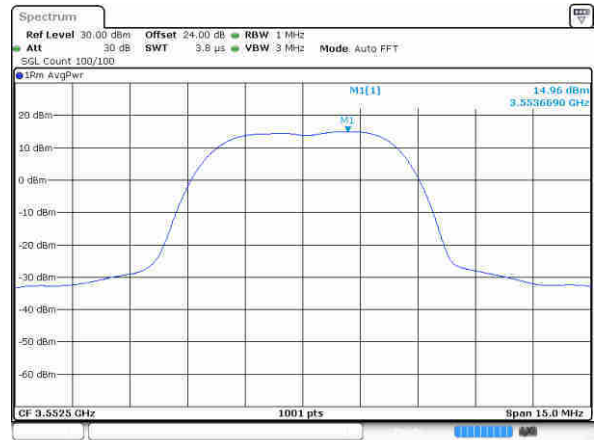
LTE Band 48 / 5MHz

Lowest Channel / 5MHz / Full / QPSK



Date: 12.FEB.2020 03:38:00

Lowest Channel / 5MHz / Full / 16QAM



Date: 12.FEB.2020 03:37:23

Middle Channel / 5MHz / Full / QPSK



Date: 12.FEB.2020 04:09:13

Middle Channel / 5MHz / Full / 16QAM



Date: 12.FEB.2020 04:10:45

Highest Channel / 5MHz / Full / QPSK



Date: 12.FEB.2020 05:17:15

Highest Channel / 5MHz / Full / 16QAM

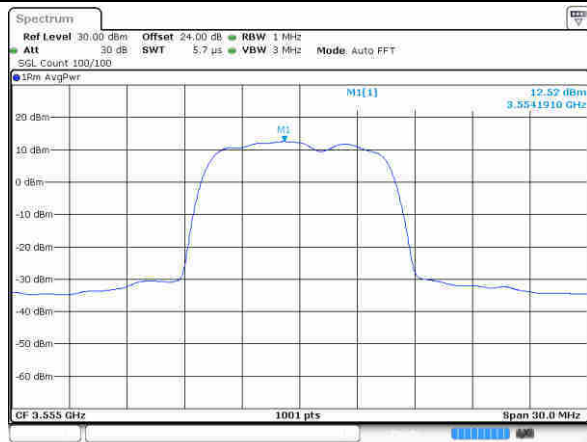


Date: 12.FEB.2020 05:18:31



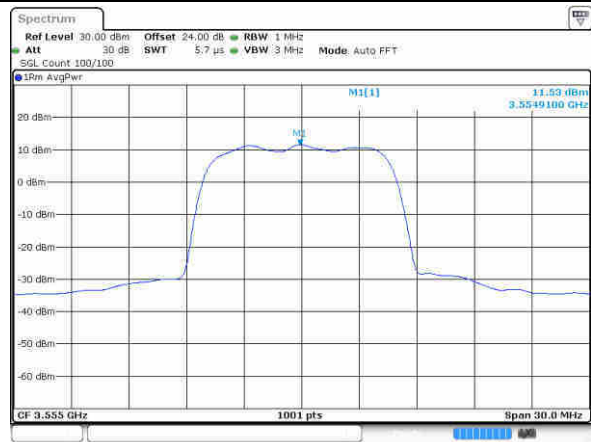
LTE Band 48 / 10MHz

Lowest Channel / 10MHz / Full / QPSK



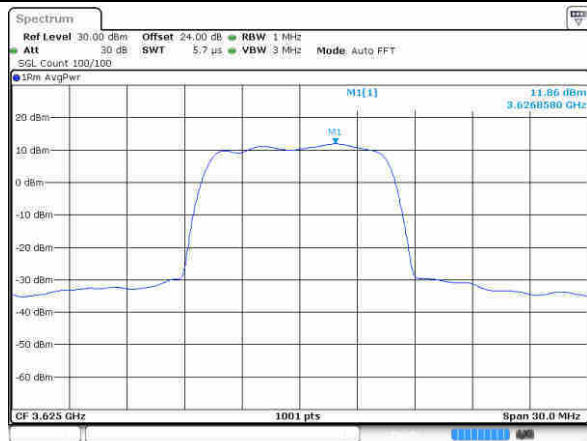
Date: 12 FEB 2020 06:38:48

Lowest Channel / 10MHz / Full / 16QAM



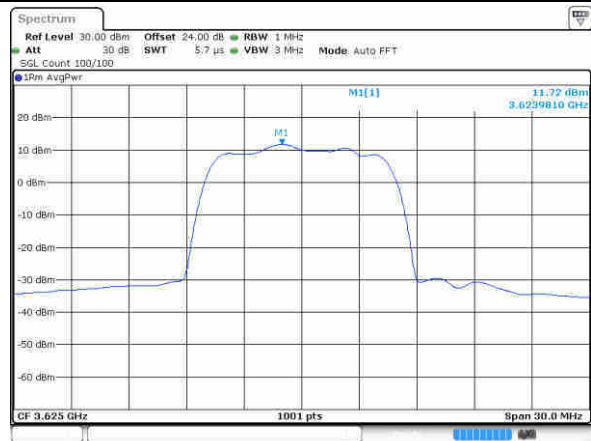
Date: 12 FEB 2020 06:43:29

Middle Channel / 10MHz / Full / QPSK



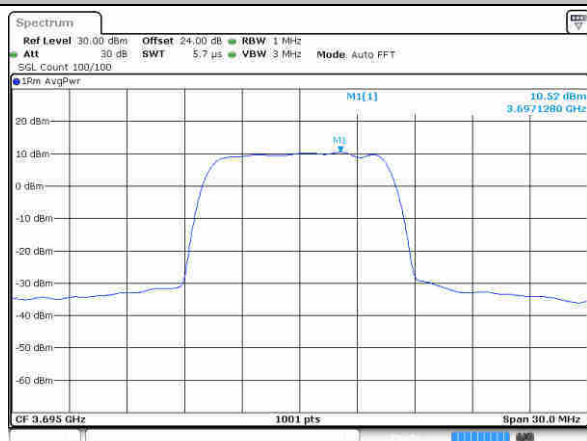
Date: 12 FEB 2020 07:22:03

Middle Channel / 10MHz / Full / 16QAM



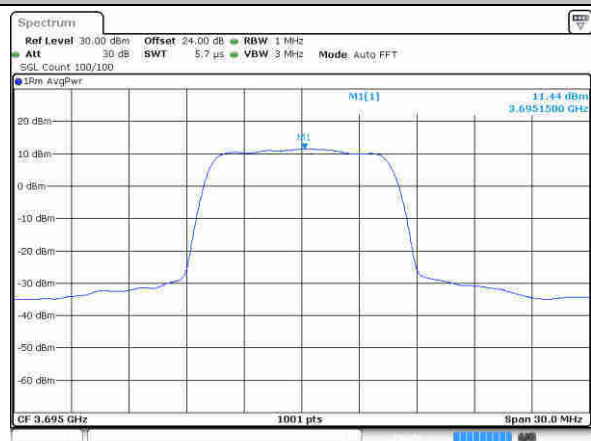
Date: 12 FEB 2020 07:23:17

Highest Channel / 10MHz / Full / QPSK



Date: 13 FEB 2020 00:18:58

Highest Channel / 10MHz / Full / 16QAM



Date: 13 FEB 2020 00:23:18