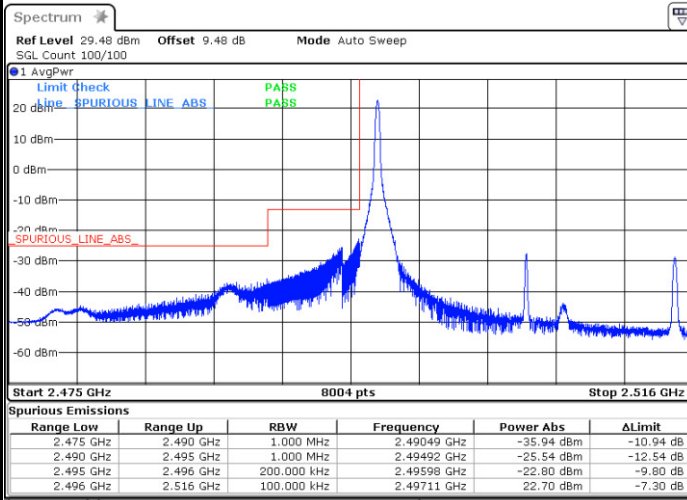




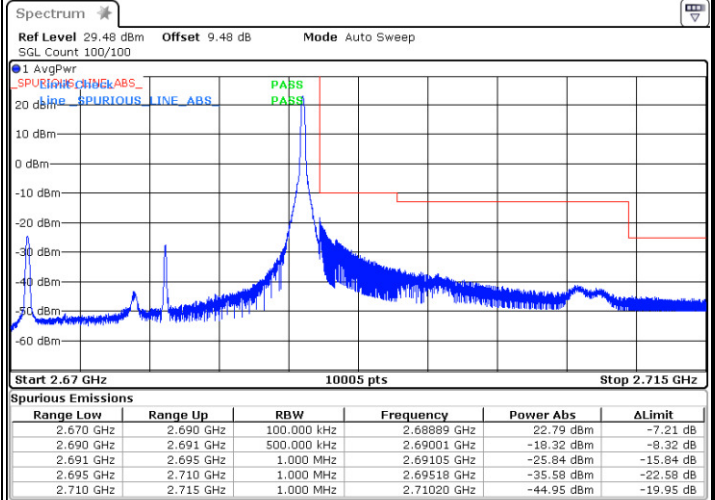
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



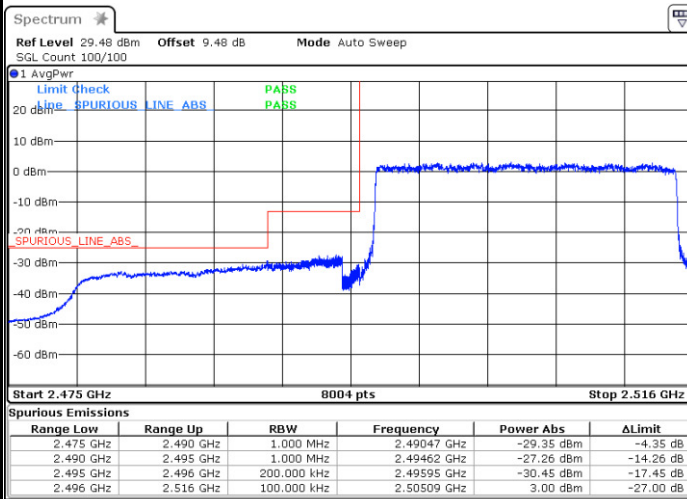
Date: 8 MAR 2019 03:21:49

Highest Band Edge / 1 RB



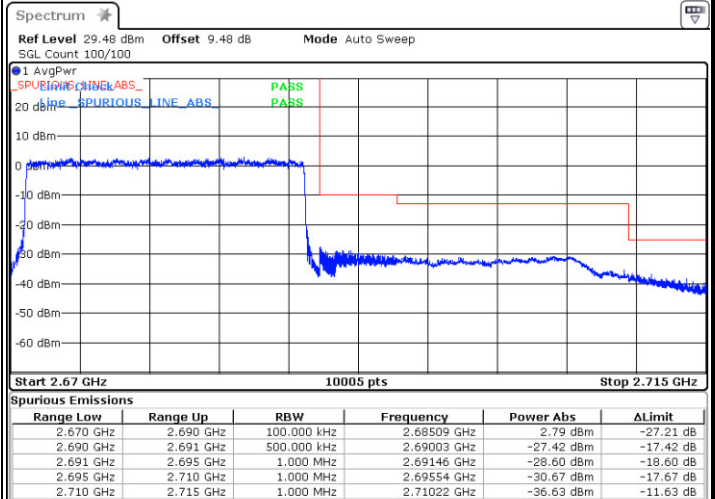
Date: 8 MAR 2019 03:45:24

Lowest Band Edge / Full RB



Date: 8 MAR 2019 03:38:56

Highest Band Edge / Full RB

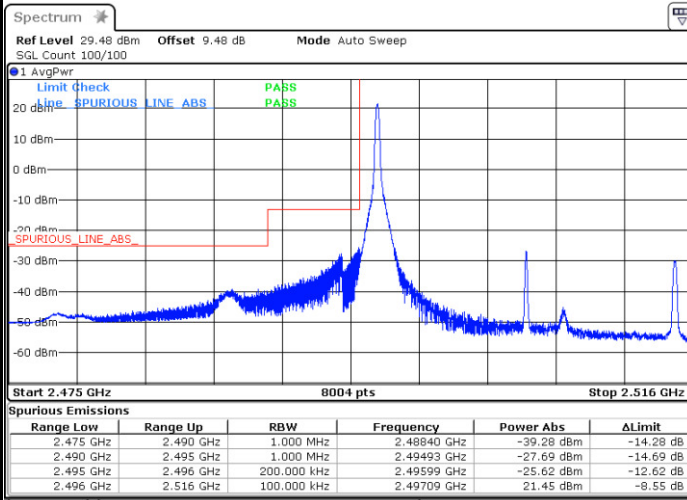


Date: 8 MAR 2019 03:43:00



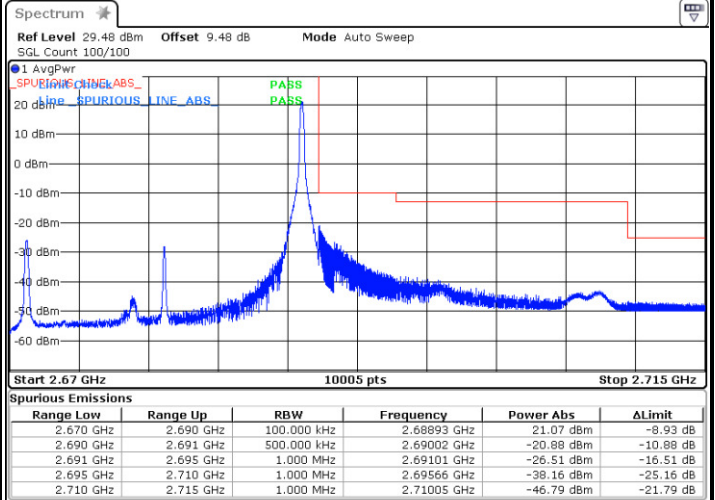
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



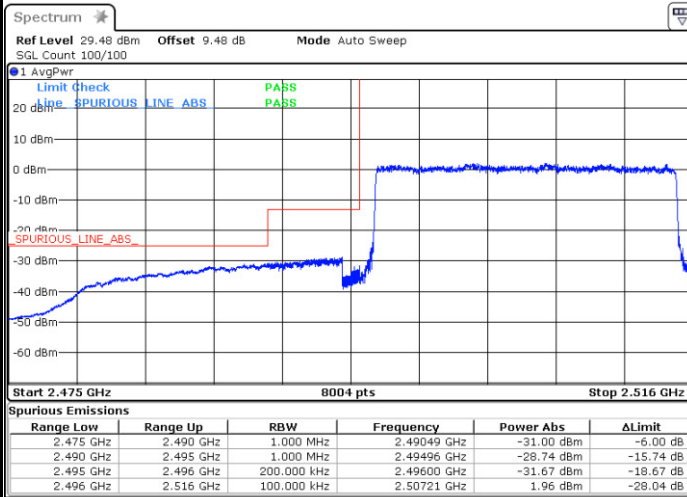
Date: 8 MAR 2019 03:23:41

Highest Band Edge / 1 RB



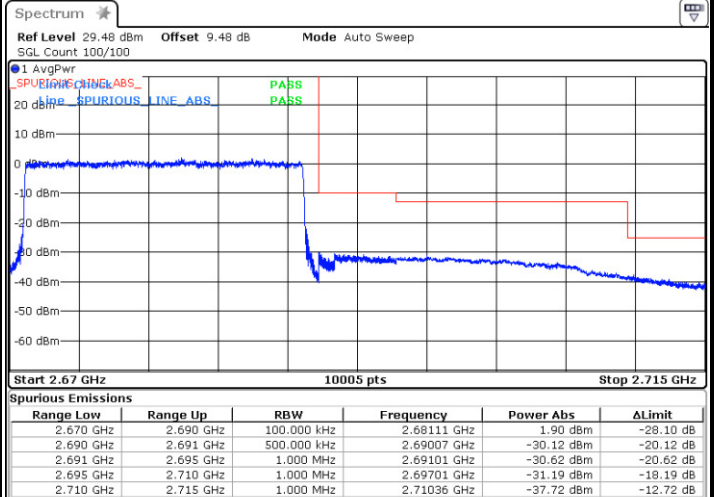
Date: 8 MAR 2019 03:47:40

Lowest Band Edge / Full RB



Date: 8 MAR 2019 03:39:54

Highest Band Edge / Full RB

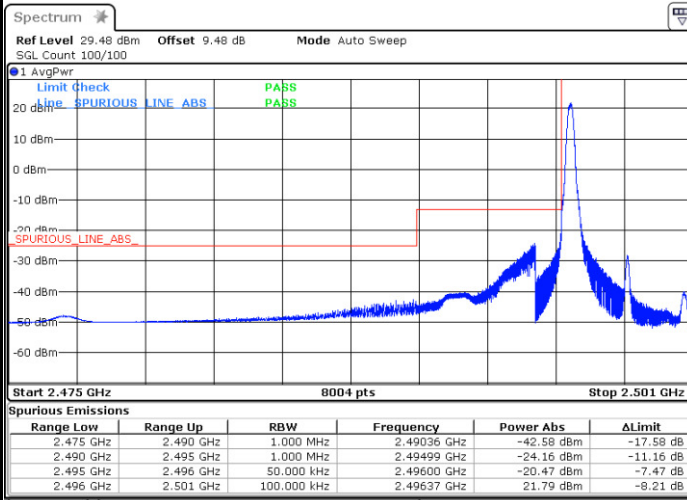


Date: 8 MAR 2019 03:42:04



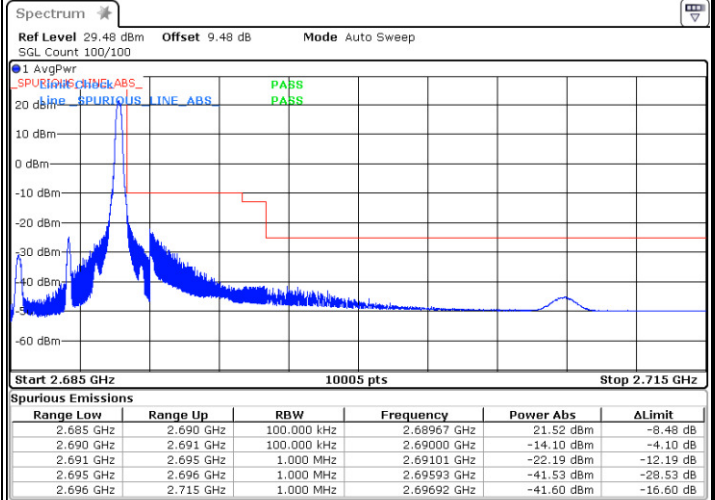
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



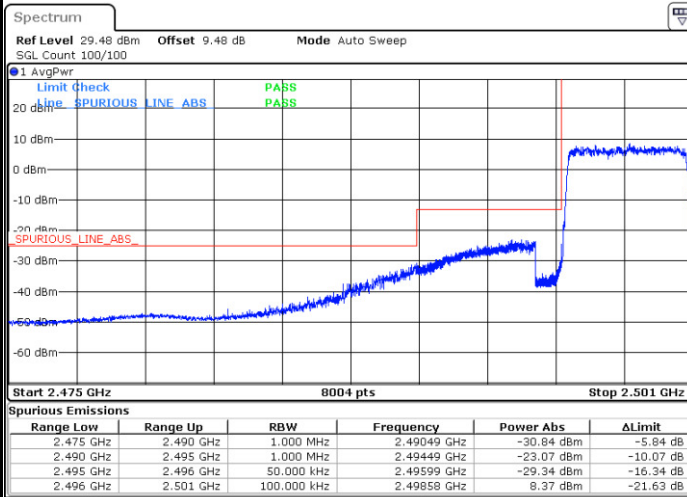
Date: 8 MAR 2019 00:04:29

Highest Band Edge / 1 RB



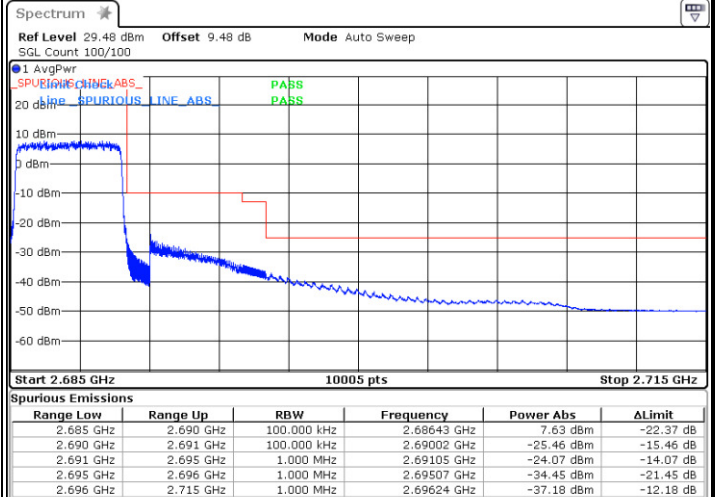
Date: 8 MAR 2019 00:15:50

Lowest Band Edge / Full RB



Date: 8 MAR 2019 00:04:52

Highest Band Edge / Full RB

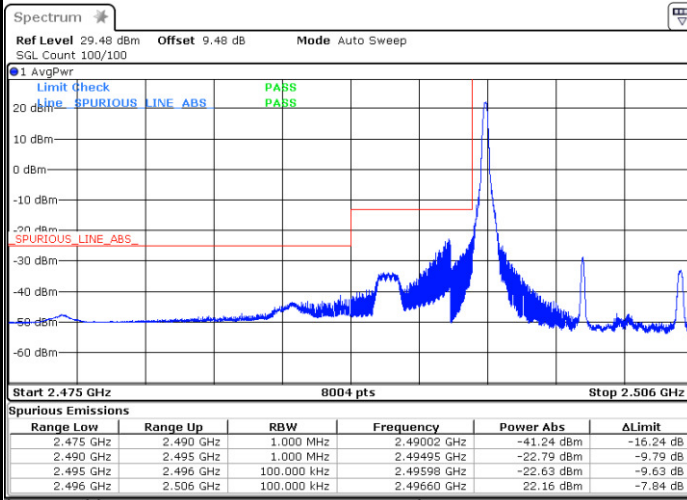


Date: 8 MAR 2019 00:13:27



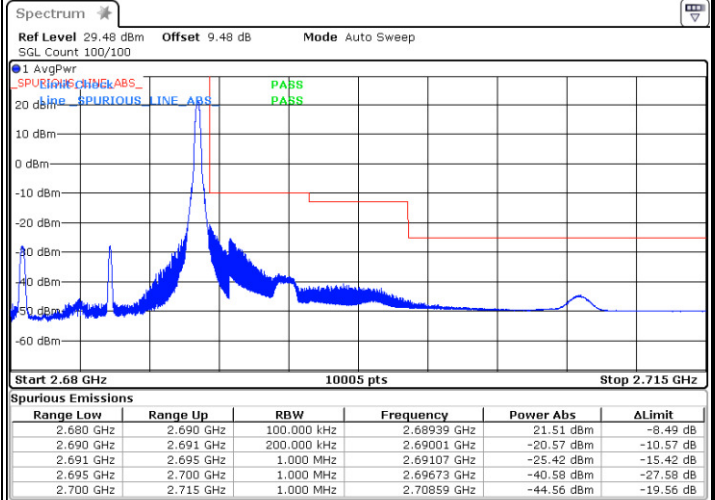
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



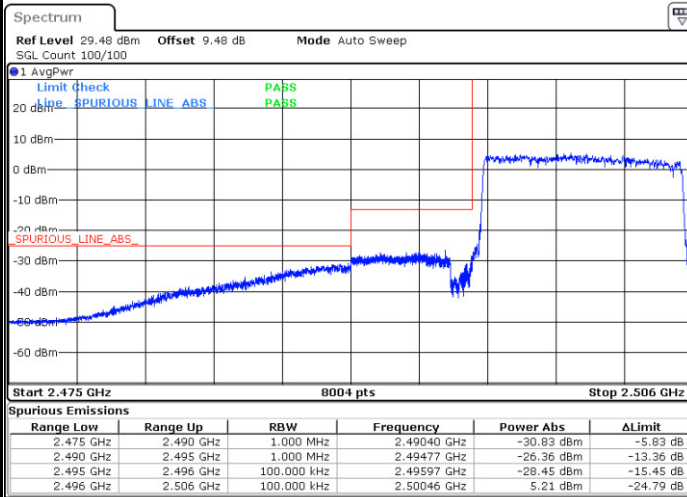
Date: 8 MAR 2019 00:32:39

Highest Band Edge / 1 RB



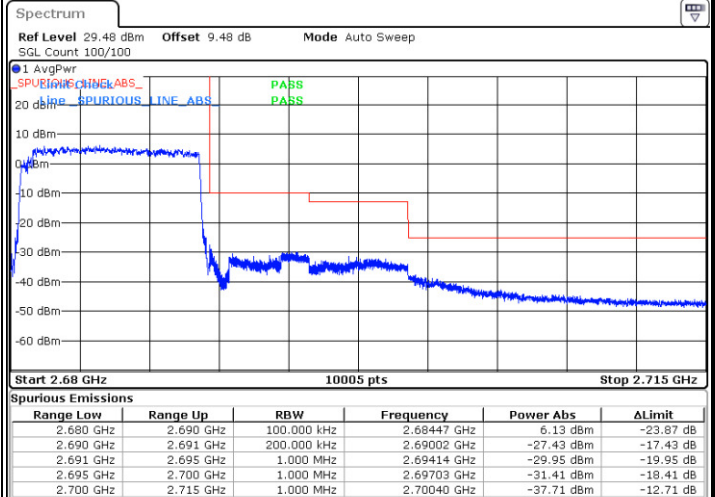
Date: 8 MAR 2019 00:39:51

Lowest Band Edge / Full RB



Date: 8 MAR 2019 00:33:02

Highest Band Edge / Full RB

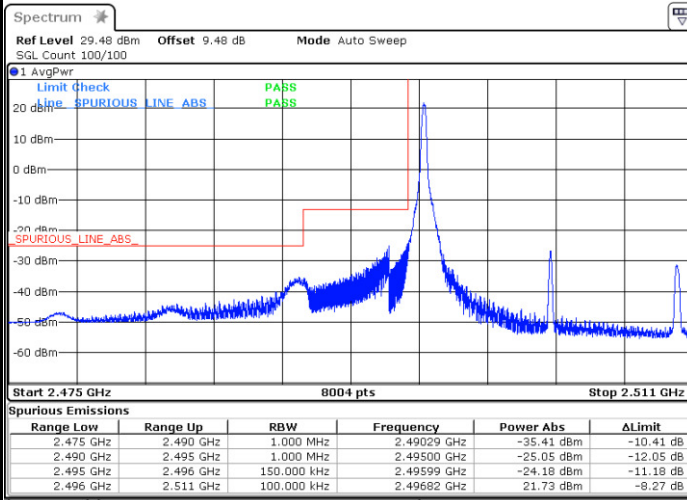


Date: 8 MAR 2019 00:36:33



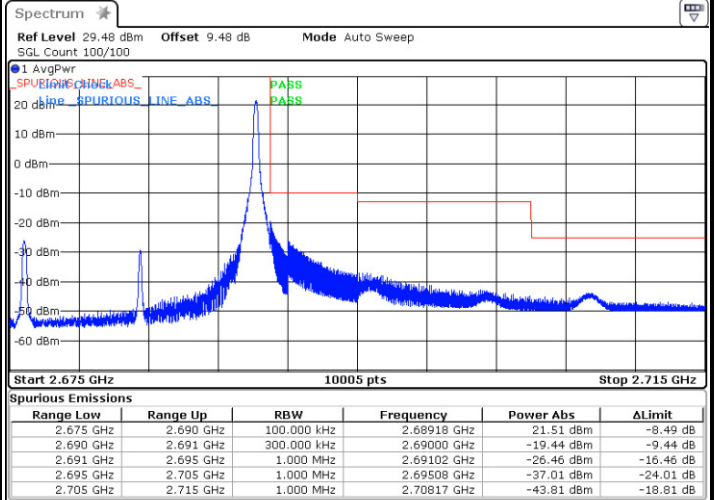
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



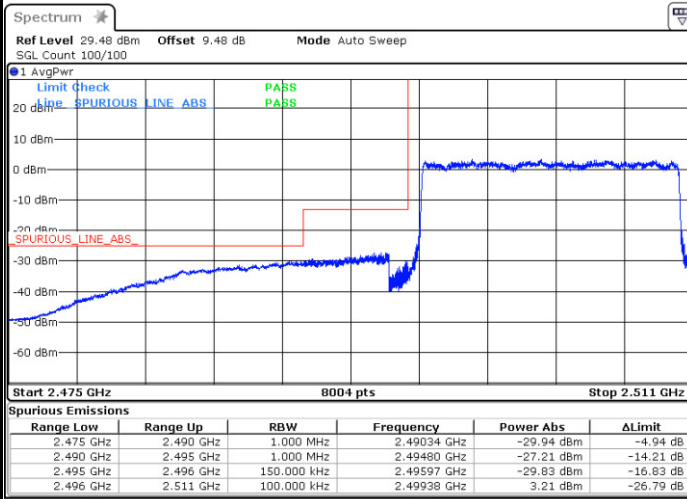
Date: 8 MAR 2019 02:55:18

Highest Band Edge / 1 RB



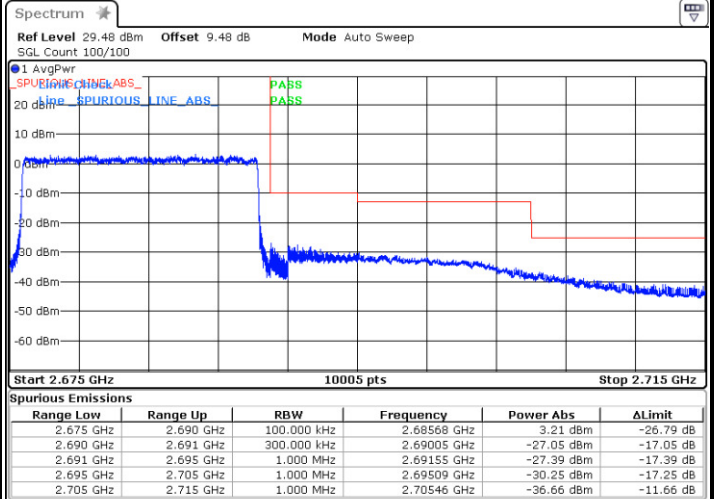
Date: 8 MAR 2019 03:07:14

Lowest Band Edge / Full RB



Date: 8 MAR 2019 02:55:53

Highest Band Edge / Full RB

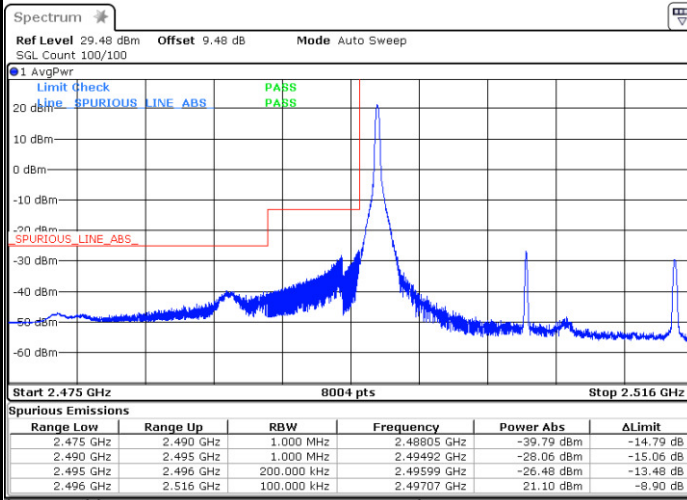


Date: 8 MAR 2019 03:08:14



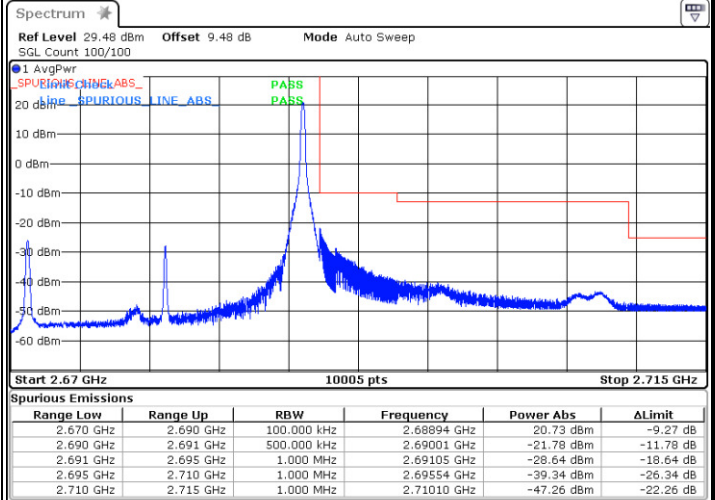
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



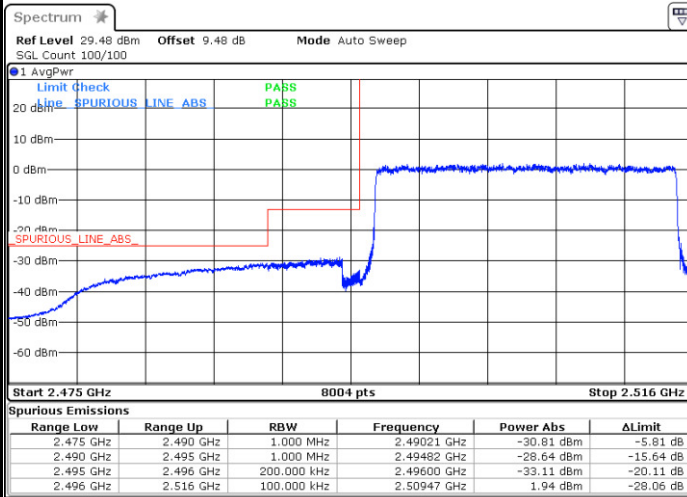
Date: 8 MAR 2019 03:25:48

Highest Band Edge / 1 RB



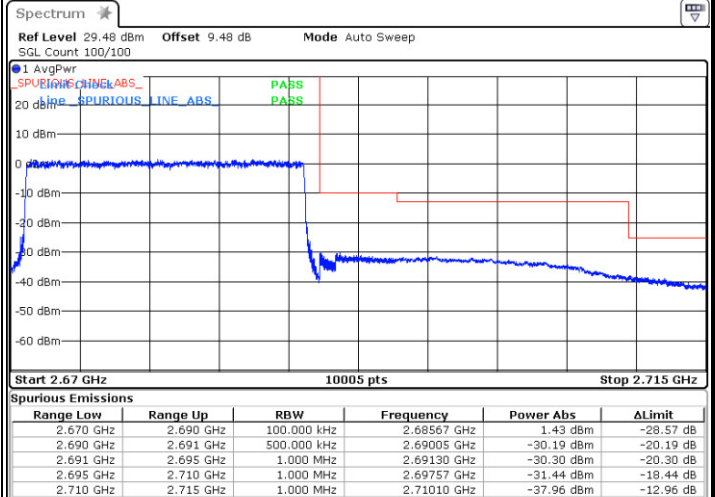
Date: 8 MAR 2019 03:50:05

Lowest Band Edge / Full RB



Date: 8 MAR 2019 03:40:38

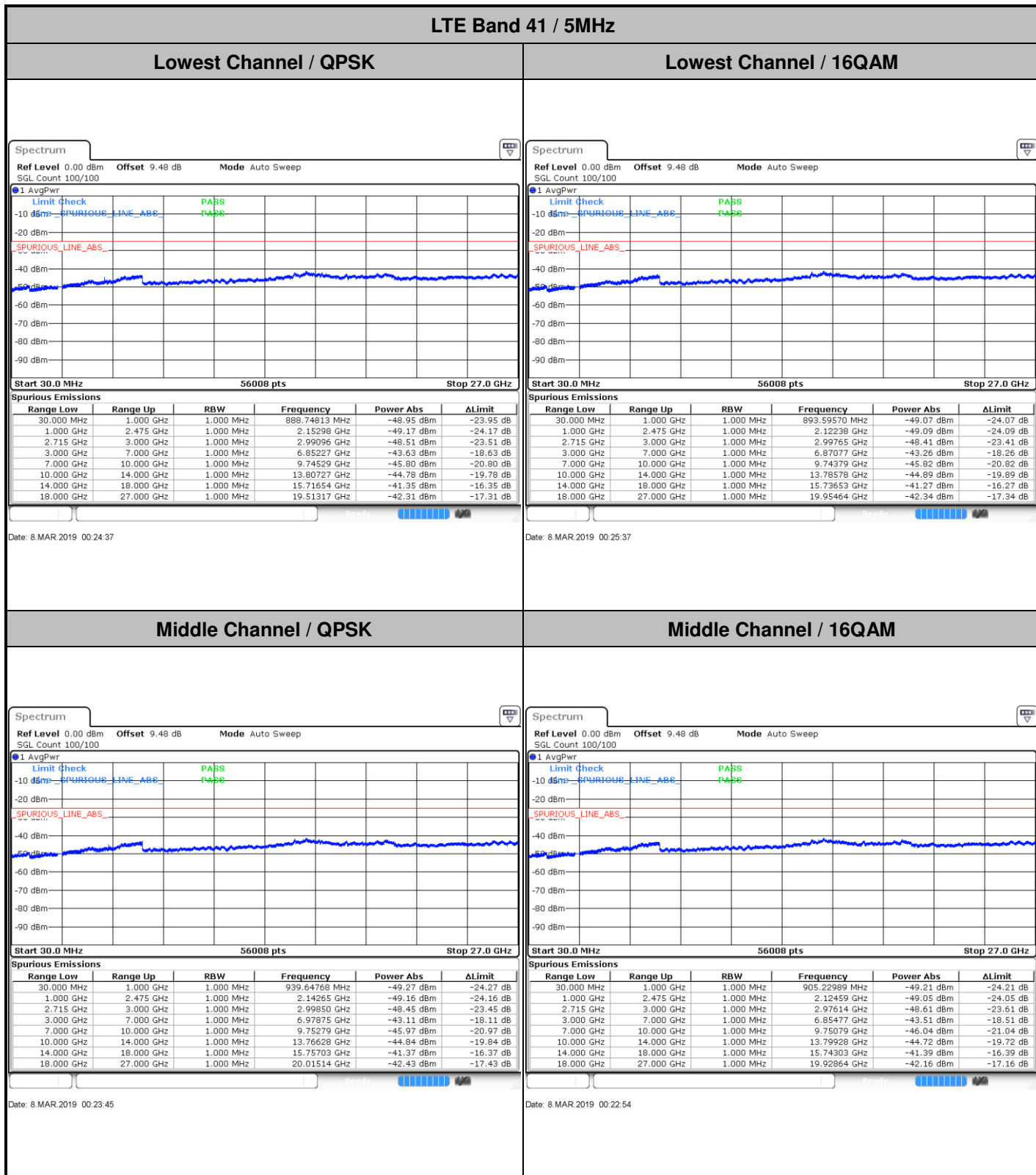
Highest Band Edge / Full RB



Date: 8 MAR 2019 03:41:26



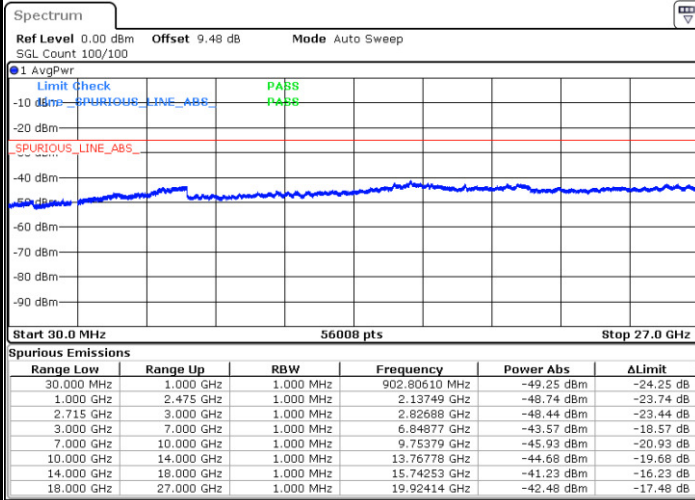
Conducted Spurious Emission





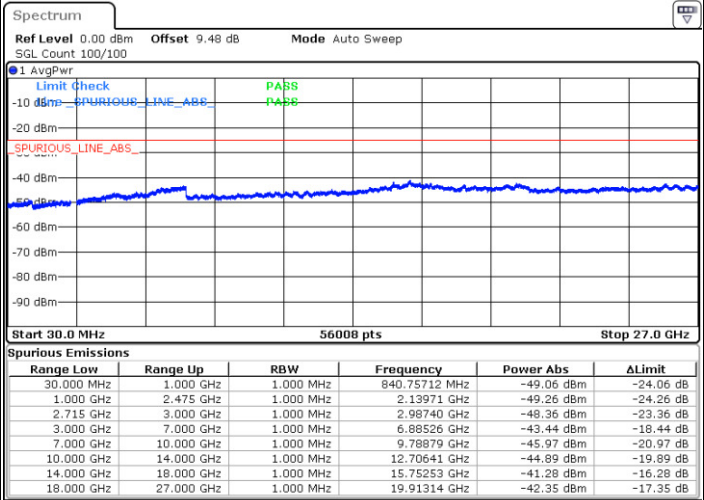
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 8 MAR 2019 00:19:34

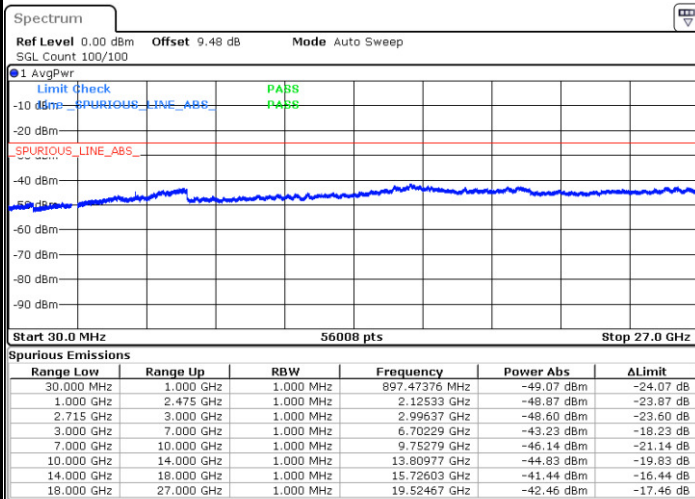
Highest Channel / 16QAM



Date: 8 MAR 2019 00:20:26

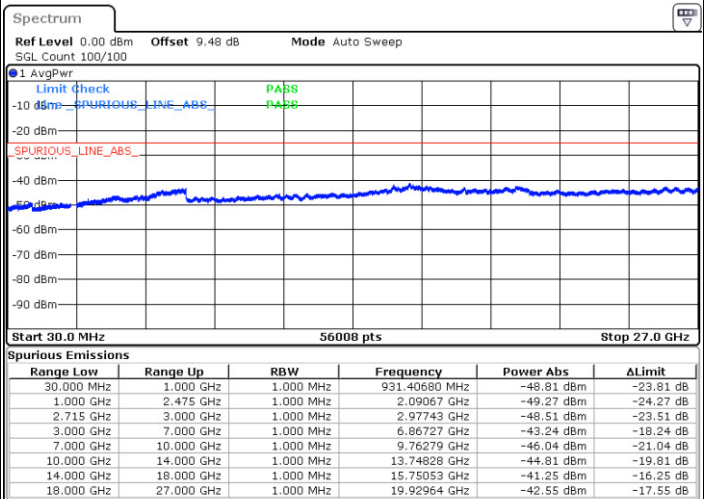
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 8 MAR 2019 00:44:52

Lowest Channel / 16QAM

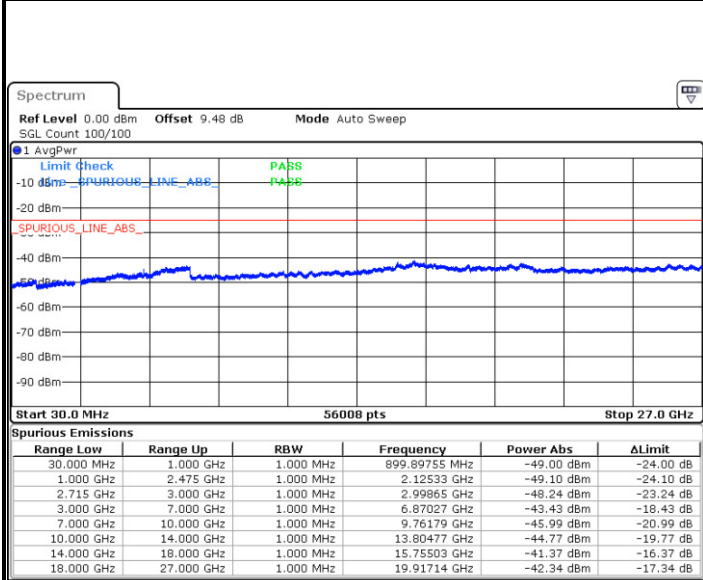


Date: 8 MAR 2019 00:45:43



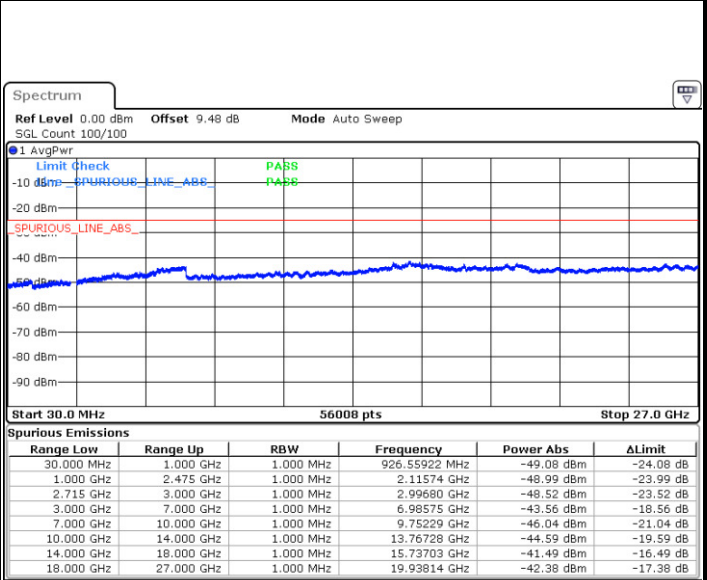
LTE Band 41 / 10MHz

Middle Channel / QPSK



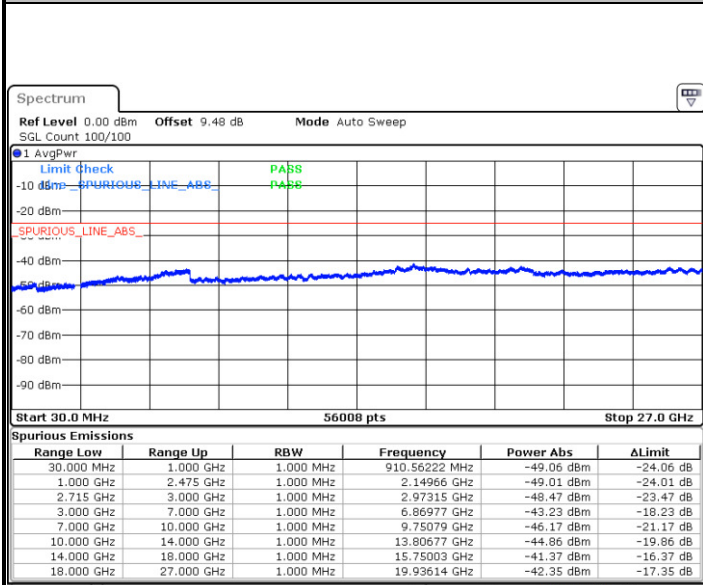
Date: 8.MAR.2019 00:49:14

Middle Channel / 16QAM



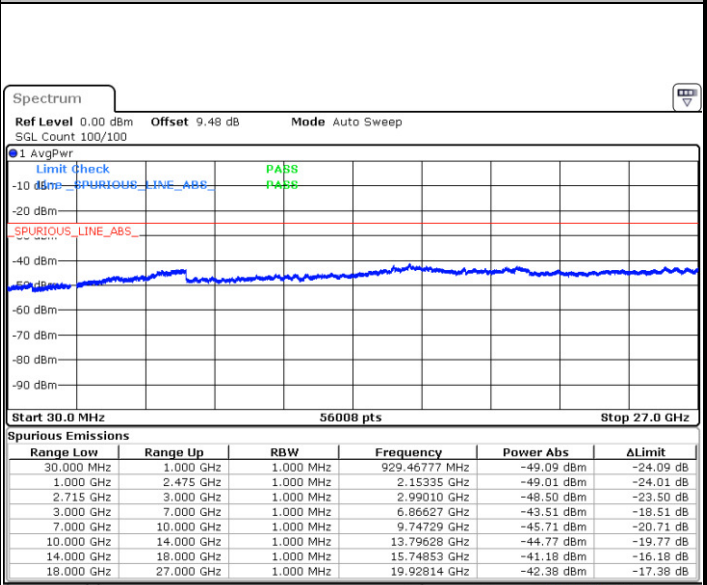
Date: 8.MAR.2019 00:48:21

Highest Channel / QPSK



Date: 8.MAR.2019 00:50:08

Highest Channel / 16QAM



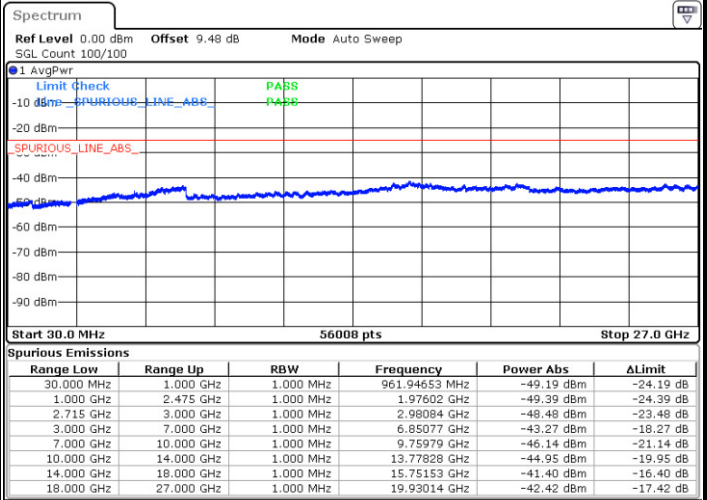
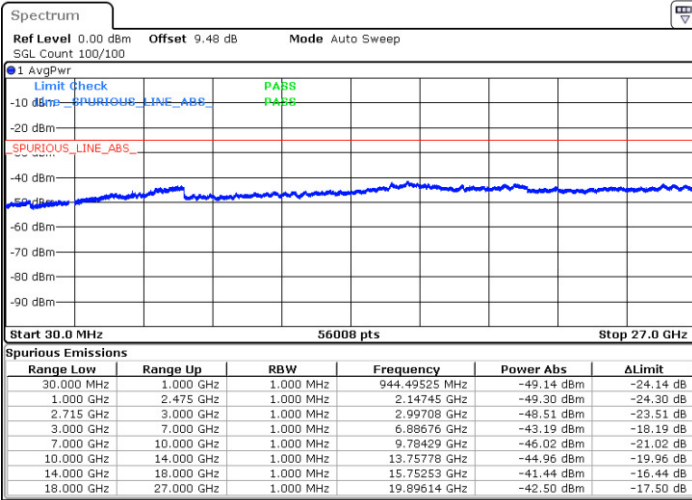
Date: 8.MAR.2019 00:51:03



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

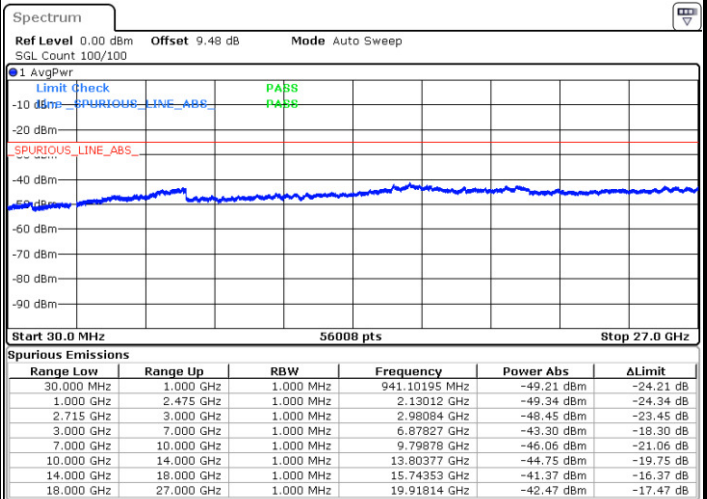
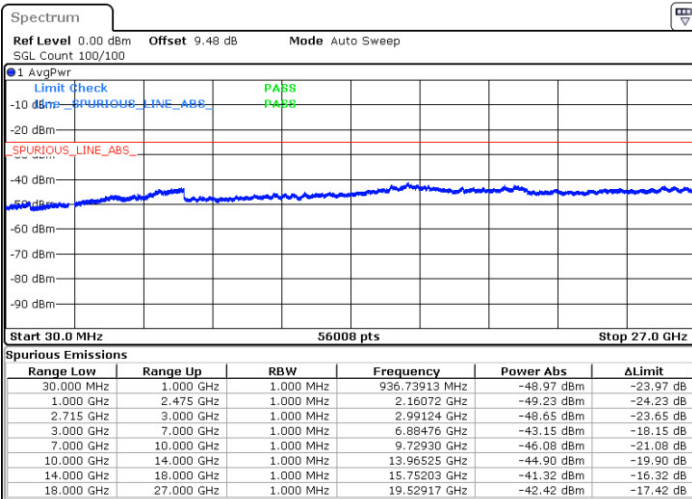


Date: 8 MAR 2019 03:10:40

Date: 8 MAR 2019 03:11:28

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 8 MAR 2019 03:16:22

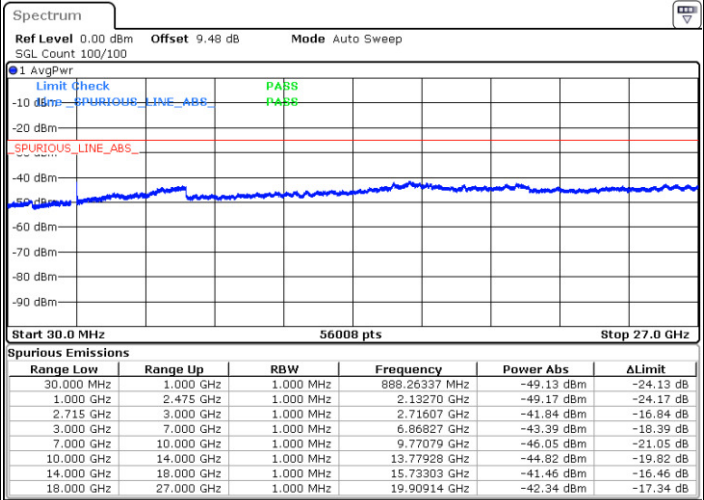
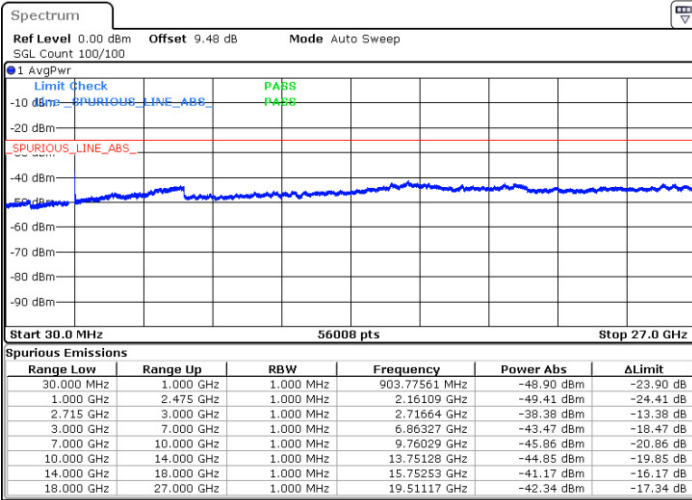
Date: 8 MAR 2019 03:14:13



LTE Band 41 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



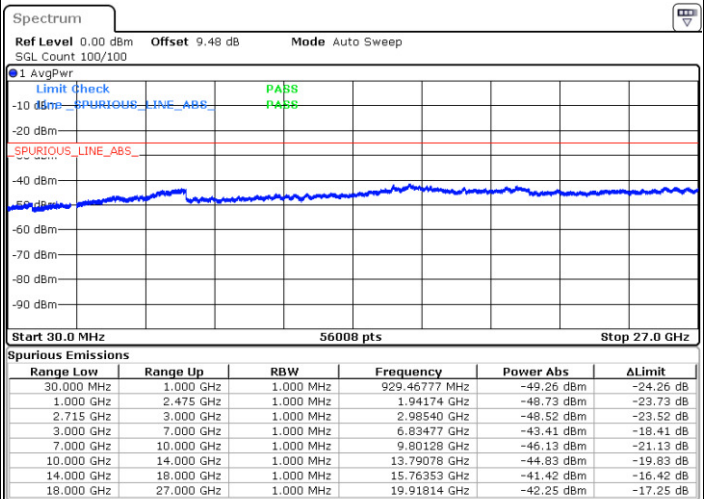
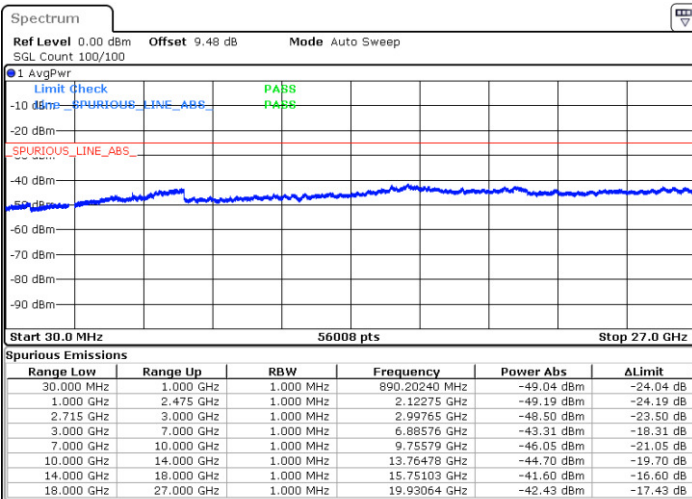
Date: 8.MAR.2019 03:17:22

Date: 8.MAR.2019 03:18:11

LTE Band 41 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



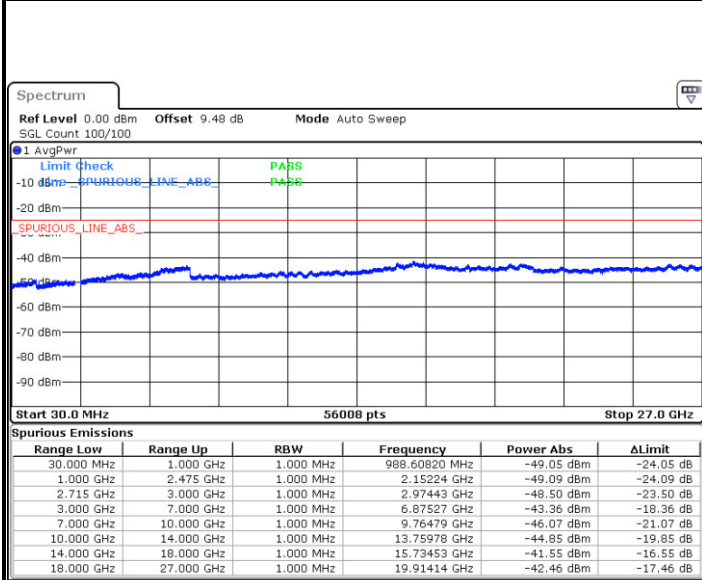
Date: 8.MAR.2019 03:51:22

Date: 8.MAR.2019 03:52:19



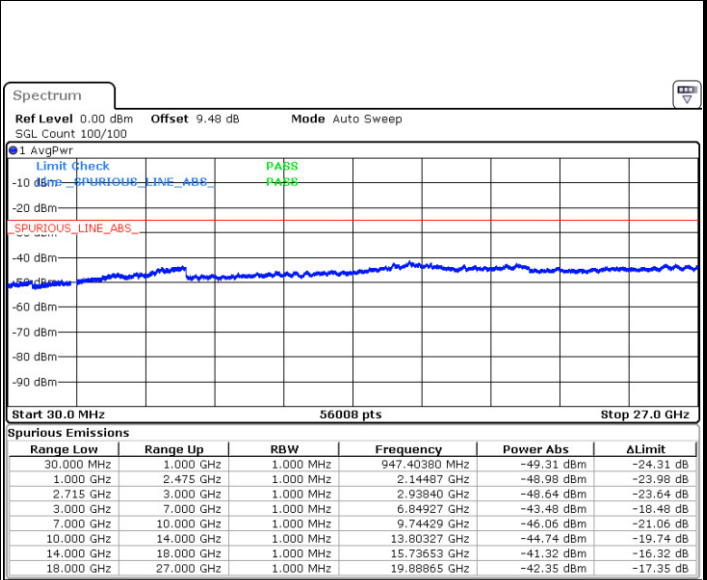
LTE Band 41 / 20MHz

Middle Channel / QPSK



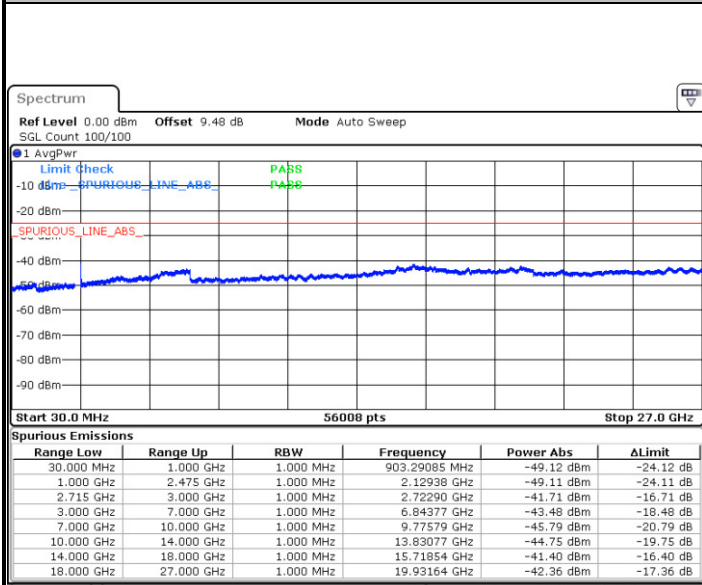
Date: 8.MAR.2019 03:57:15

Middle Channel / 16QAM



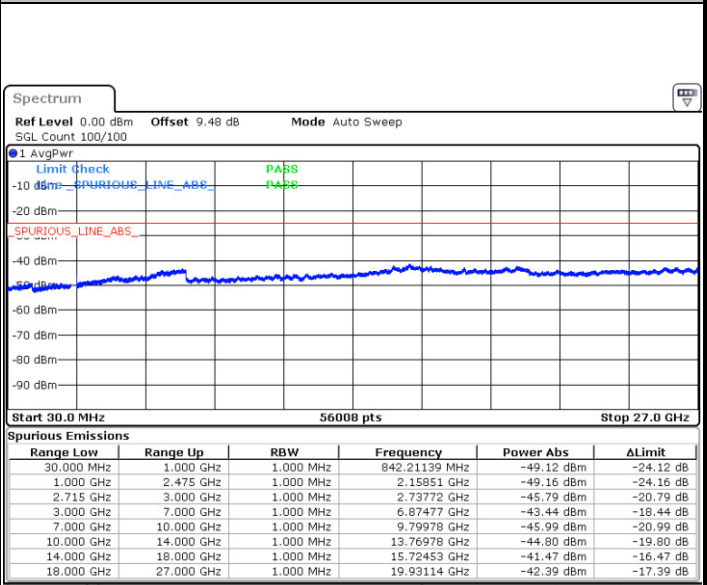
Date: 8.MAR.2019 03:56:04

Highest Channel / QPSK



Date: 8.MAR.2019 03:58:18

Highest Channel / 16QAM

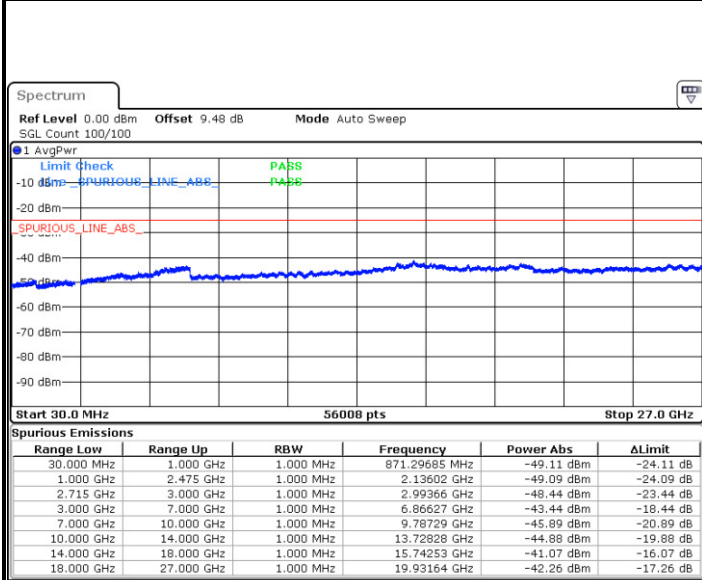


Date: 8.MAR.2019 03:59:19



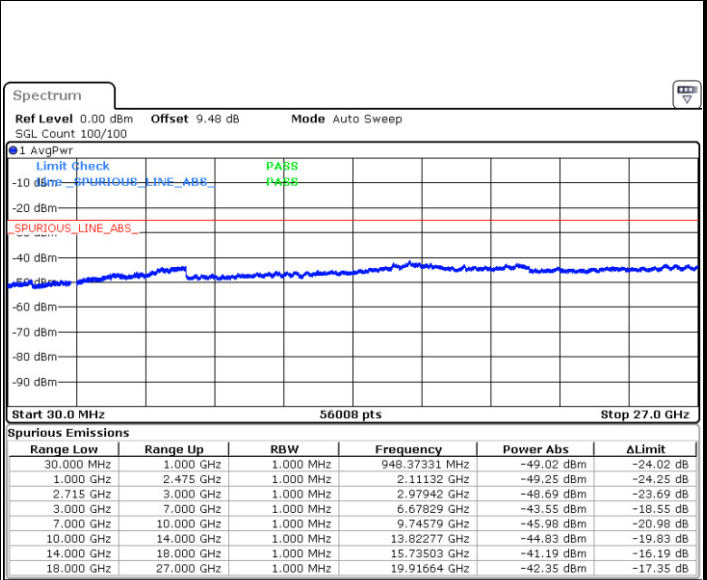
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



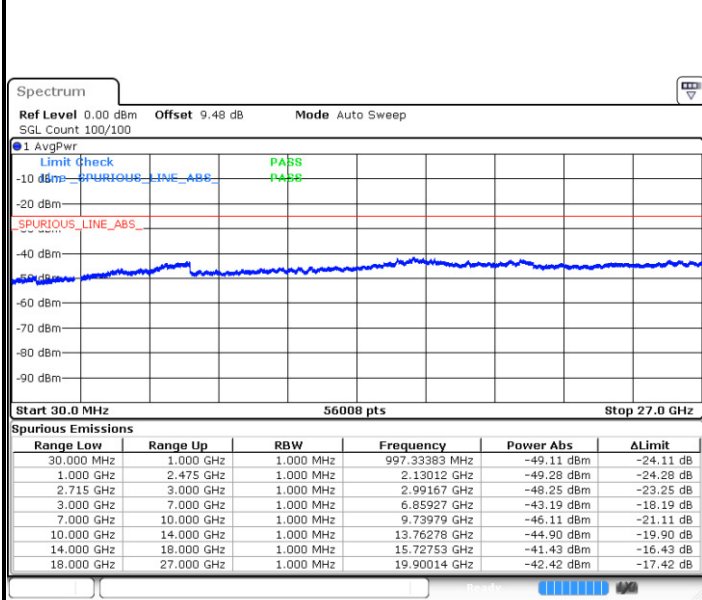
Date: 8.MAR.2019 00:26:34

Middle Channel / 64QAM



Date: 8.MAR.2019 00:22:07

Highest Channel / 64QAM

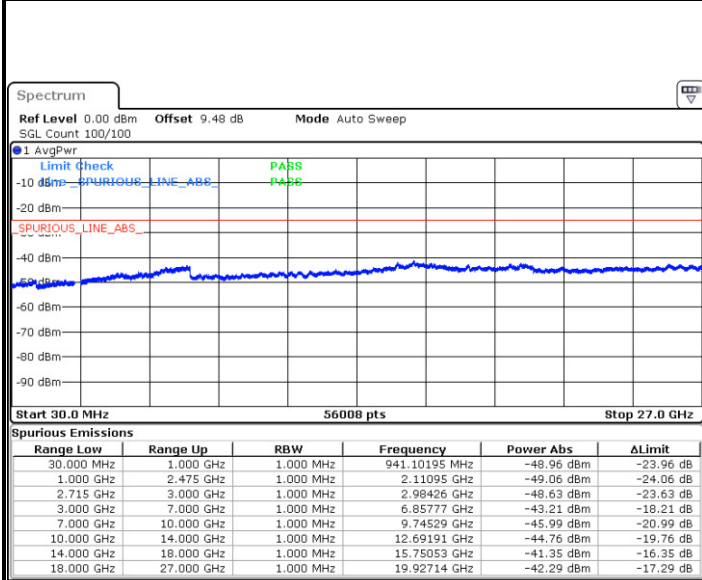


Date: 8.MAR.2019 00:21:15



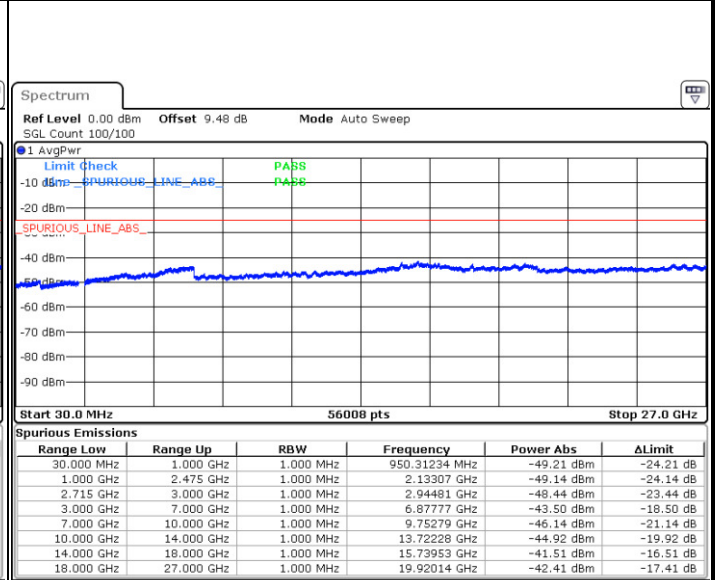
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



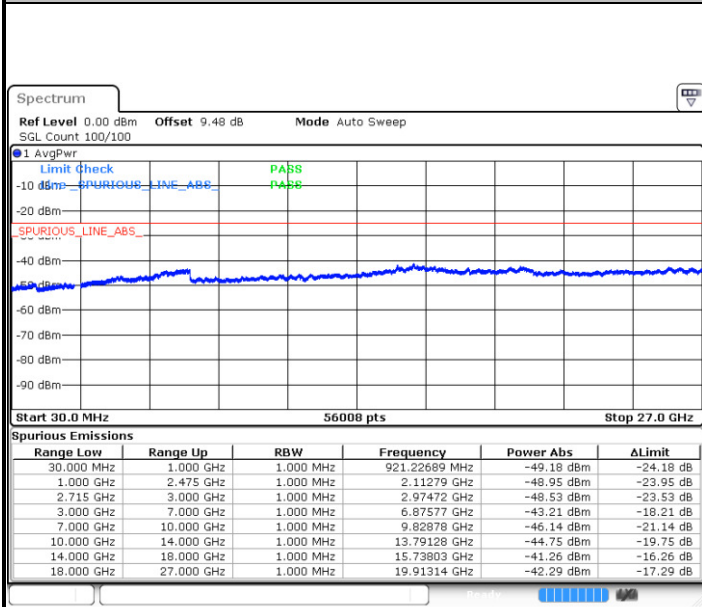
Date: 8.MAR.2019 00:46:43

Middle Channel / 64QAM



Date: 8.MAR.2019 00:47:32

Highest Channel / 64QAM



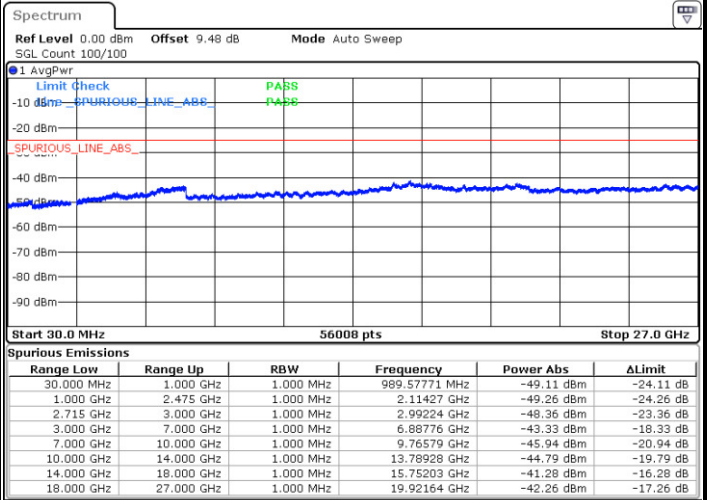
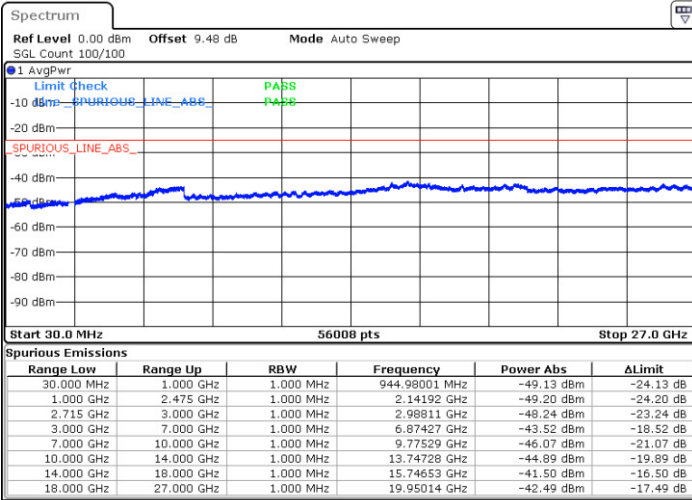
Date: 8.MAR.2019 00:51:51



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

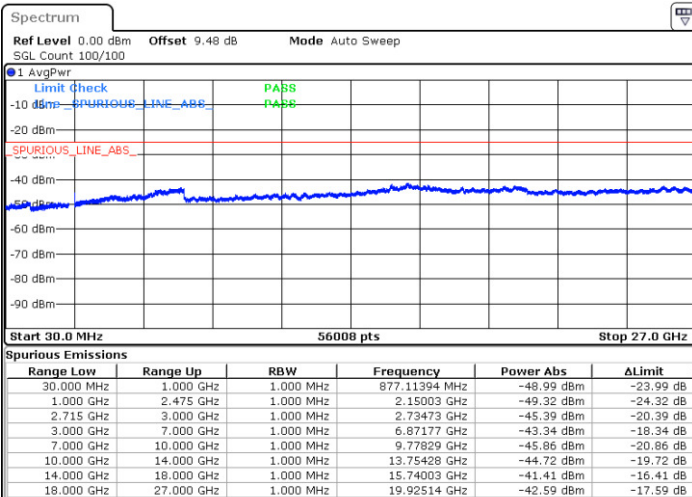
Middle Channel / 64QAM



Date: 8.MAR.2019 03:12:17

Date: 8.MAR.2019 03:15:10

Highest Channel / 64QAM



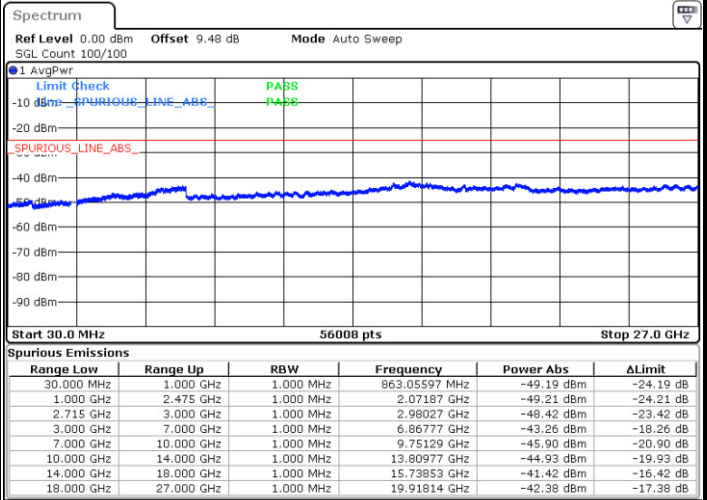
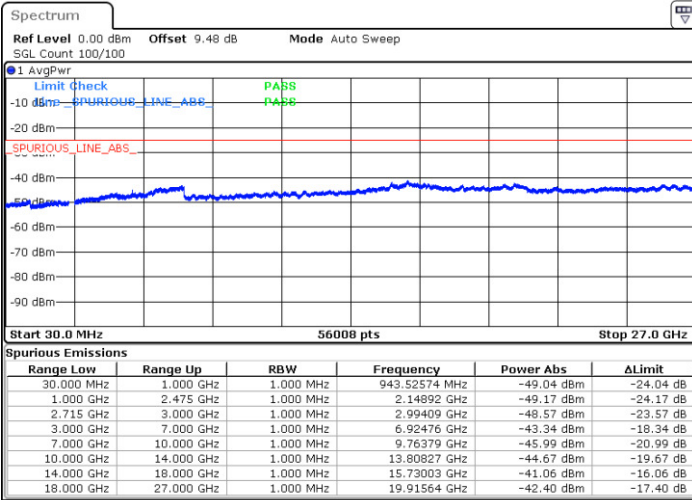
Date: 8.MAR.2019 03:19:01



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

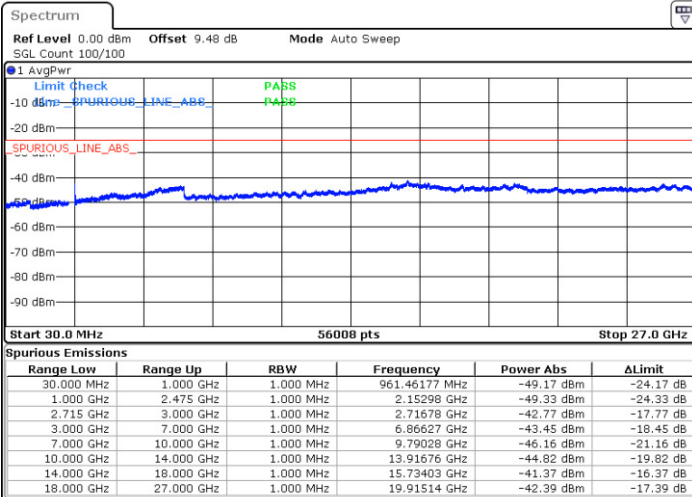
Middle Channel / 64QAM



Date: 8.MAR.2019 03:53:11

Date: 8.MAR.2019 03:55:14

Highest Channel / 64QAM



Date: 8.MAR.2019 04:00:08



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)								
BW	5MHz+20MHz			10MHz+20MHz			15MHz+15MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	23.33	23.18	23.38	27.99	27.87	27.93	28.53	28.53	28.59
Middle CH	23.23	23.18	23.03	27.81	27.87	27.87	28.59	28.47	28.47
Highest CH	23.28	23.28	23.43	28.05	27.93	27.87	28.65	28.47	28.53

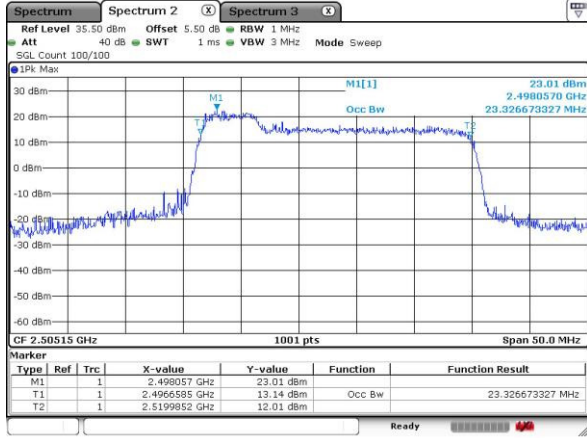
Mode	LTE Band 41 : 99%OBW(MHz)								
BW	15MHz+20MHz			20MHz+5MHz			20MHz+10MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	32.66	32.73	32.73	23.43	23.23	23.38	28.11	27.93	27.93
Middle CH	32.59	32.59	32.66	23.33	23.33	23.28	27.99	27.99	27.99
Highest CH	32.73	32.66	32.80	23.38	23.28	23.33	27.93	27.87	27.99

Mode	LTE Band 41 : 99%OBW(MHz)					
BW	20MHz+15MHz			20MHz+20MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	32.80	32.73	32.66	37.40	37.32	37.48
Middle CH	32.59	32.73	32.66	37.56	37.32	37.32
Highest CH	32.94	32.80	32.87	37.40	37.48	37.48



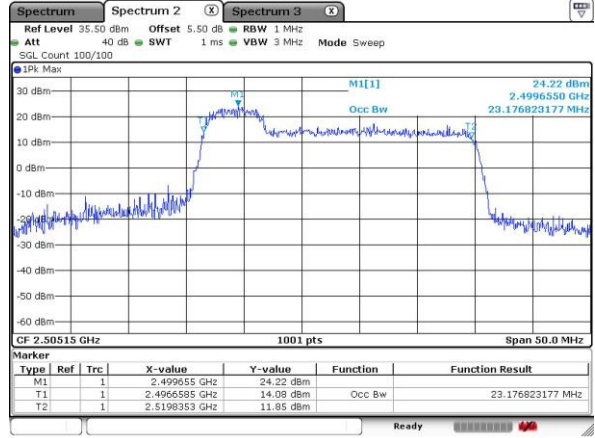
LTE Band 41

Lowest Channel / 5MHz+20MHz/QPSK



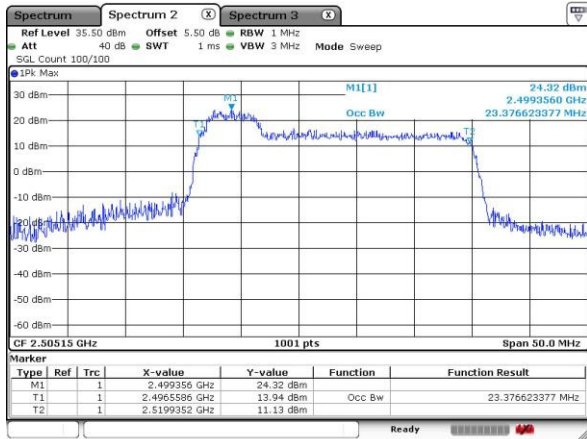
Date: 7 MAR 2018 19:28:13

Lowest Channel / 5MHz+20MHz /16QAM



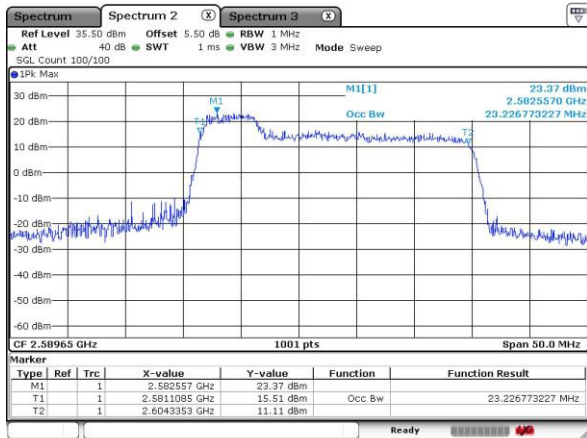
Date: 7 MAR 2018 19:26:47

Lowest Channel / 5MHz+20MHz/64QAM



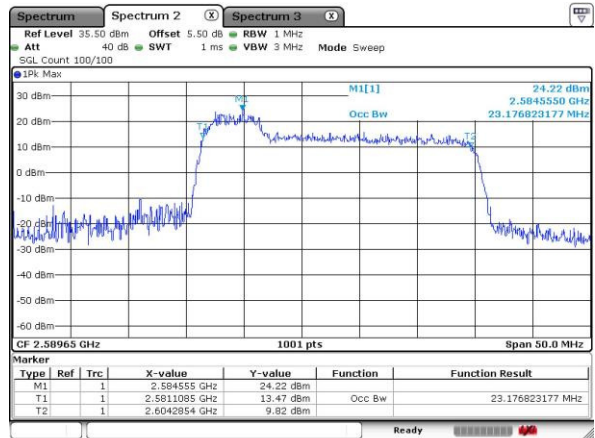
Date: 7 MAR 2018 19:26:12

Middle Channel / 5MHz+20MHz/QPSK



Date: 7 MAR 2018 19:29:43

Middle Channel / 5MHz+20MHz/16QAM

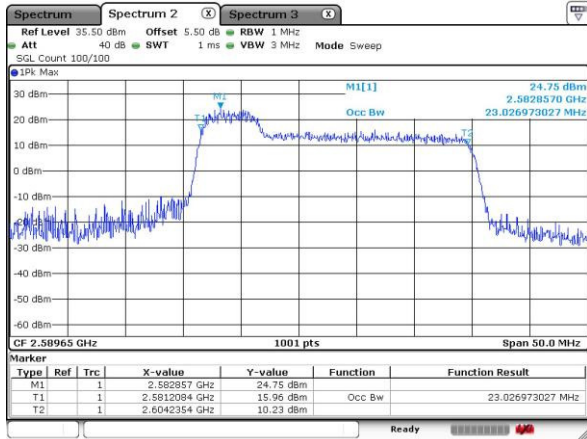


Date: 7 MAR 2018 19:33:26



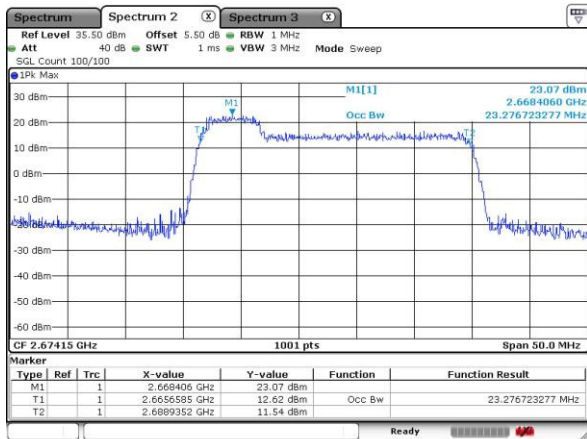
LTE Band 41

Middle Channel / 5MHz+20MHz/64QAM



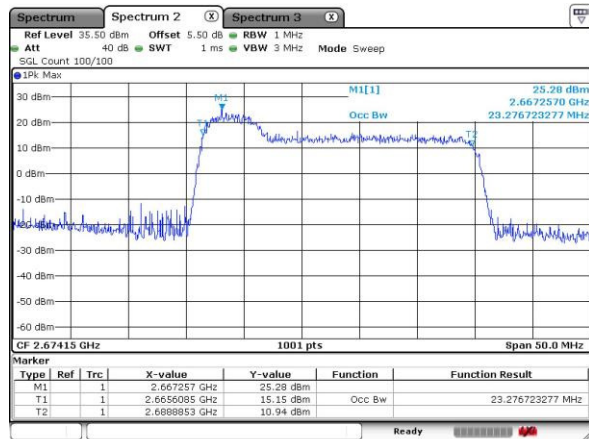
Date: 7 MAR 2018 19:34:32

Highest Channel / 5MHz+20MHz/QPSK



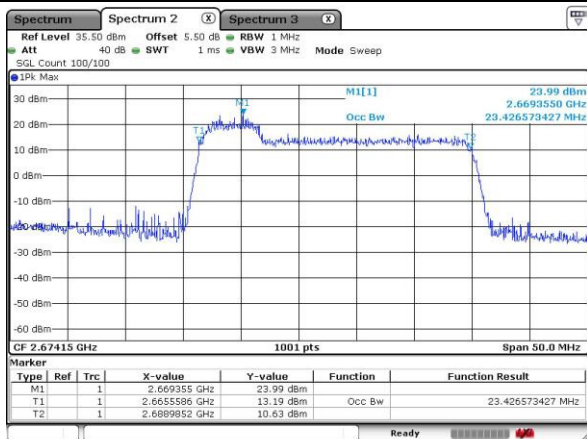
Date: 7 MAR 2018 19:38:56

Highest Channel / 5MHz+20MHz/16QAM



Date: 7 MAR 2018 19:37:24

Highest Channel / 5MHz+20MHz/64QAM

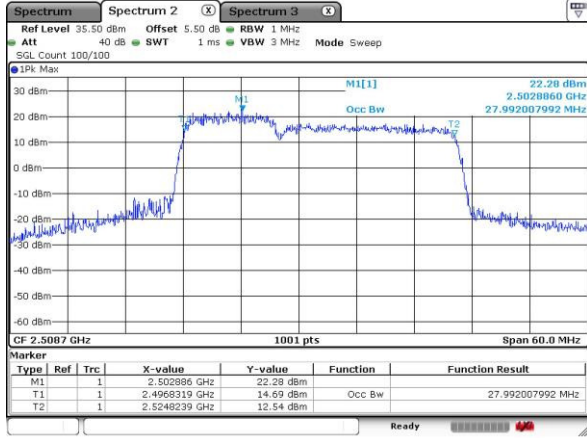


Date: 7 MAR 2018 19:36:37



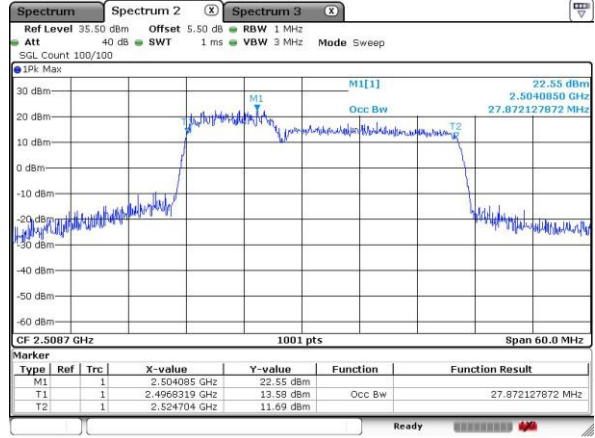
LTE Band 41

Lowest Channel / 10MHz+20MHz/QPSK



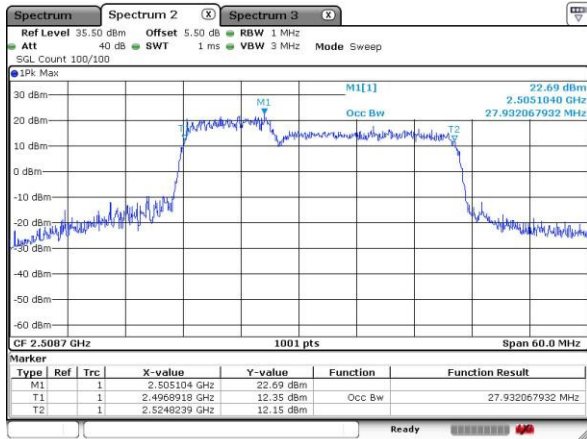
Date: 7 MAR 2018 20:10:07

Lowest Channel / 10MHz+20MHz /16QAM



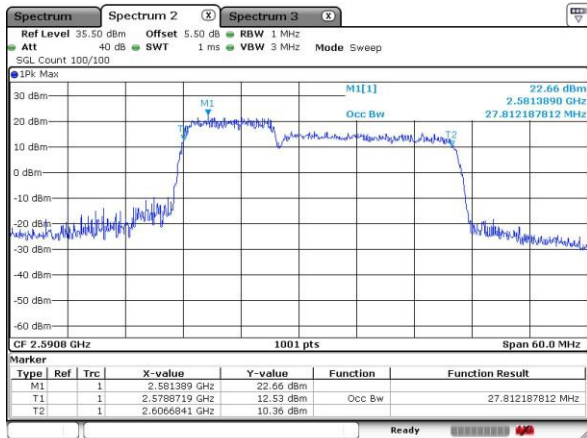
Date: 7 MAR 2018 20:08:40

Lowest Channel / 10MHz+20MHz/64QAM



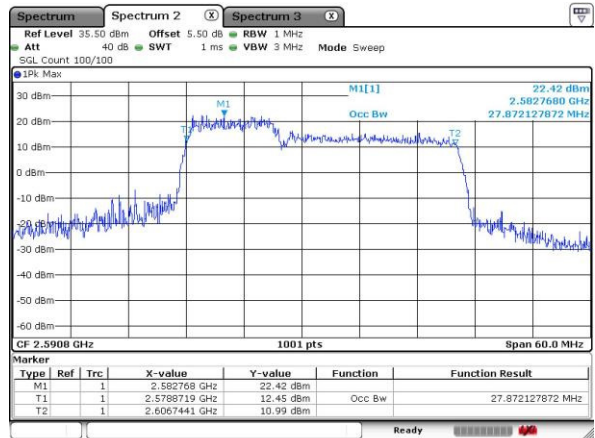
Date: 7 MAR 2018 20:07:51

Middle Channel / 10MHz+20MHz/QPSK



Date: 7 MAR 2018 20:16:34

Middle Channel / 10MHz+20MHz/16QAM

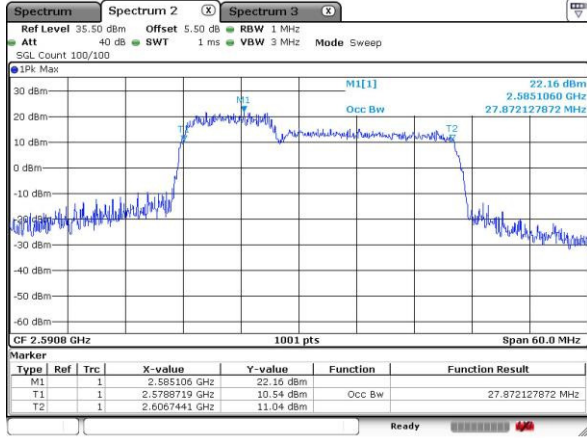


Date: 7 MAR 2018 20:23:29



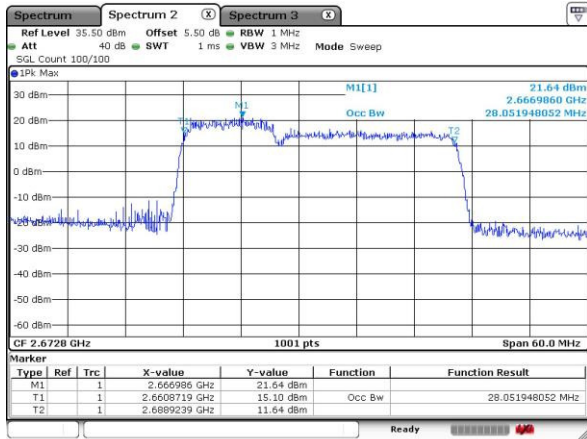
LTE Band 41

Middle Channel / 10MHz+20MHz/64QAM



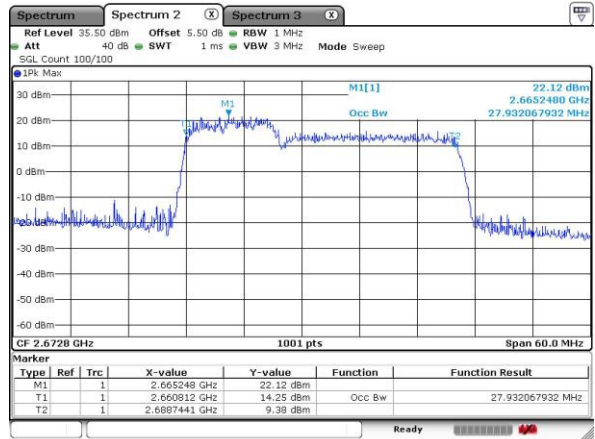
Date: 7 MAR 2018 20:24:23

Highest Channel / 10MHz+20MHz/QPSK



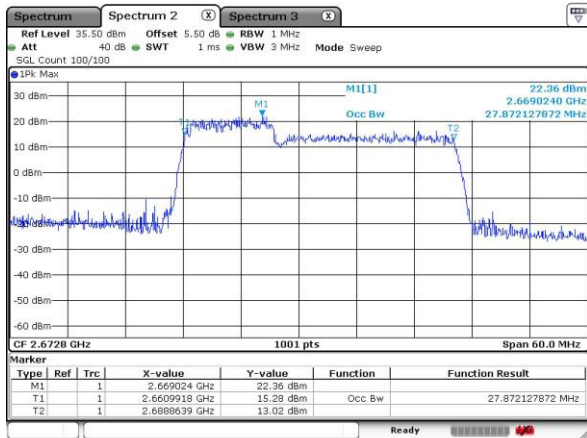
Date: 7 MAR 2018 20:29:19

Highest Channel / 10MHz+20MHz/16QAM



Date: 7 MAR 2018 20:27:49

Highest Channel / 10MHz+20MHz/64QAM

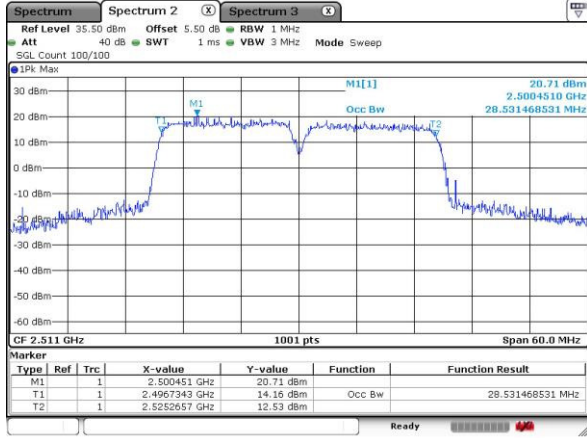


Date: 7 MAR 2018 20:26:48



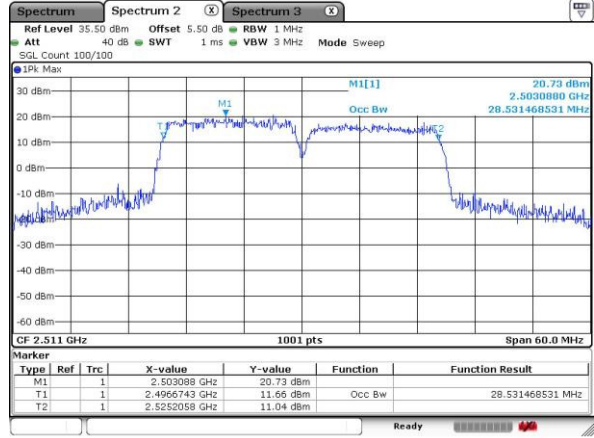
LTE Band 41

Lowest Channel / 15MHz+15MHz/QPSK



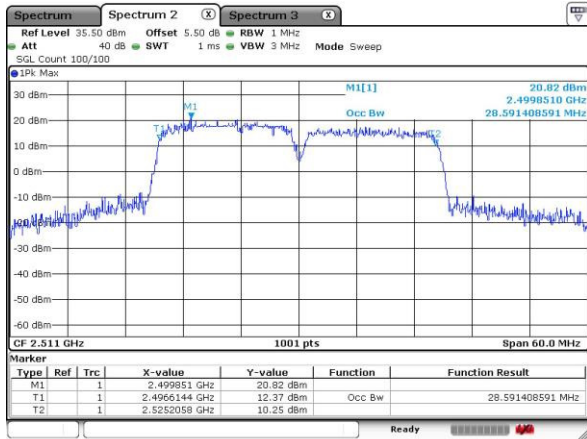
Date: 7 MAR 2018 20:53:25

Lowest Channel / 15MHz+15MHz/16QAM



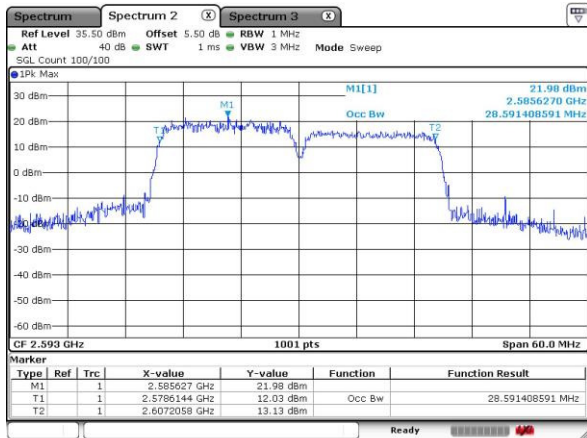
Date: 7 MAR 2018 20:52:02

Lowest Channel / 15MHz+15MHz /64QAM



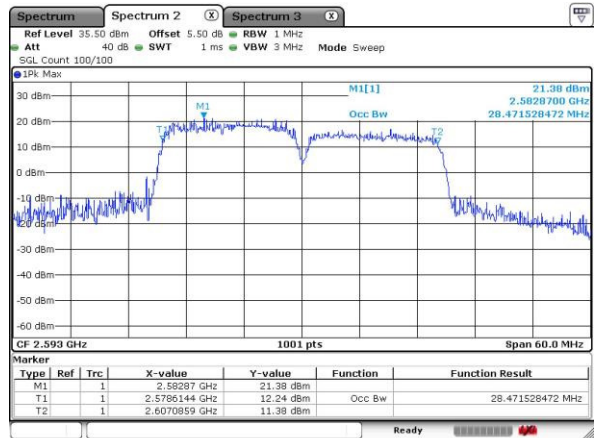
Date: 7 MAR 2018 20:51:21

Middle Channel / 15MHz+15MHz /QPSK



Date: 7 MAR 2018 20:55:31

Middle Channel / 15MHz+15MHz /16QAM

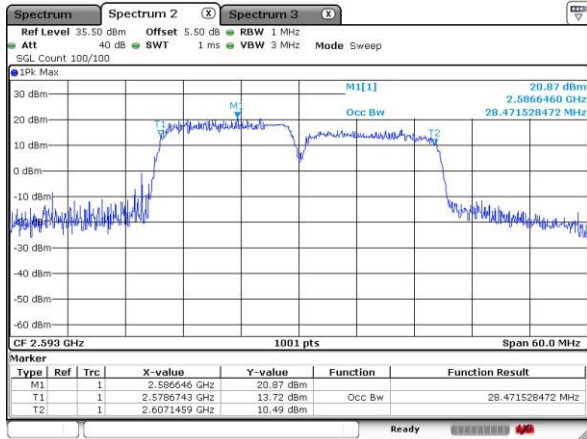


Date: 7 MAR 2018 20:58:02



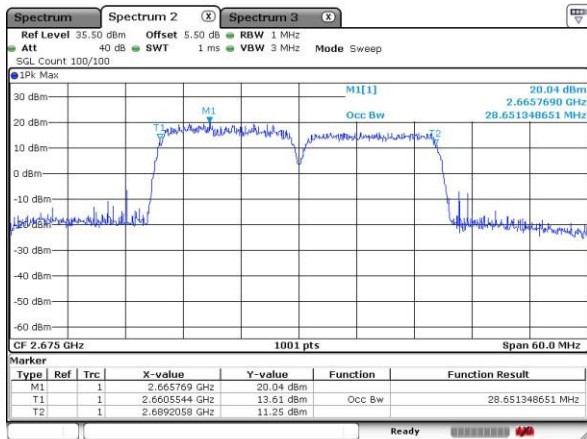
LTE Band 41

Middle Channel / 15MHz+15MHz /64QAM



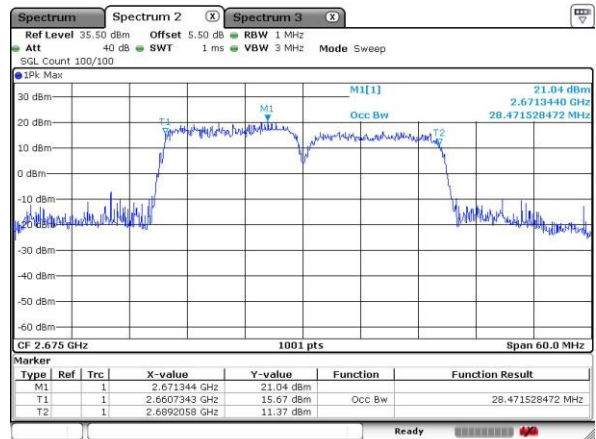
Date: 7 MAR 2018 21:28:39

Highest Channel / 15MHz+15MHz /QPSK



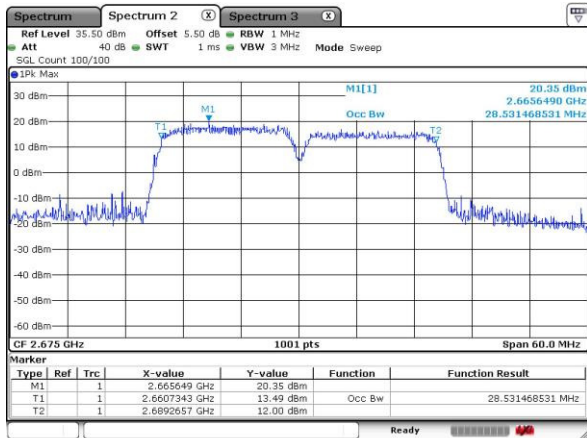
Date: 7 MAR 2018 21:34:53

Highest Channel / 15MHz+15MHz /16QAM



Date: 7 MAR 2018 21:33:23

Highest Channel / 15MHz+15MHz /64QAM

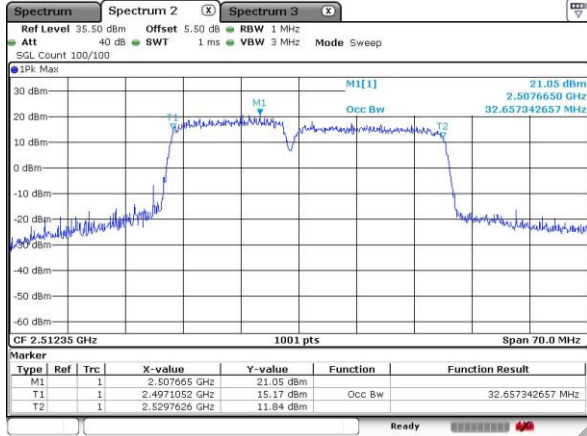


Date: 7 MAR 2018 21:32:46



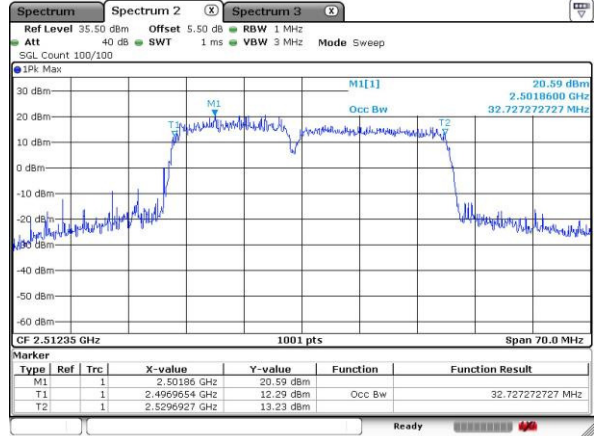
LTE Band 41

Lowest Channel / 15MHz+20MHz/QPSK



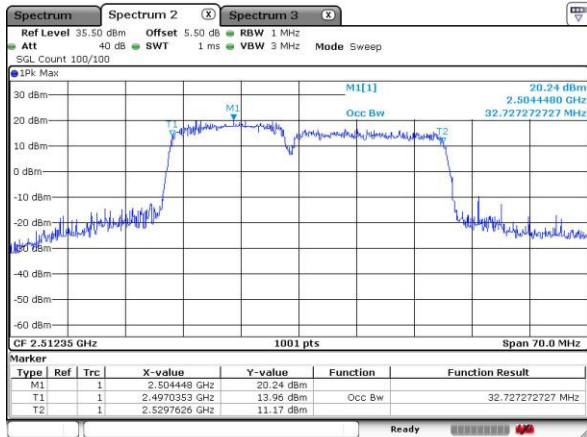
Date: 7 MAR 2018 22:07:05

Lowest Channel / 15MHz+20MHz /16QAM



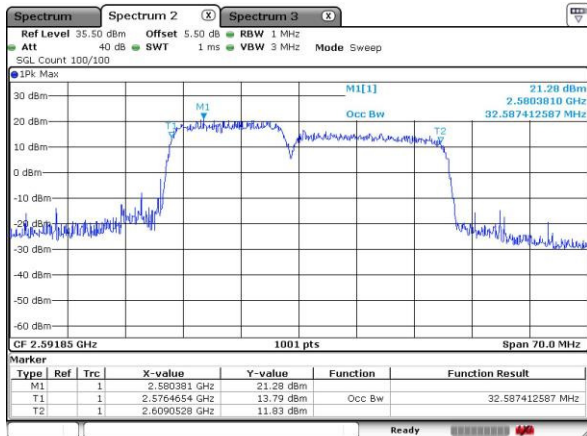
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Lowest Channel / 15MHz+20MHz /64QAM



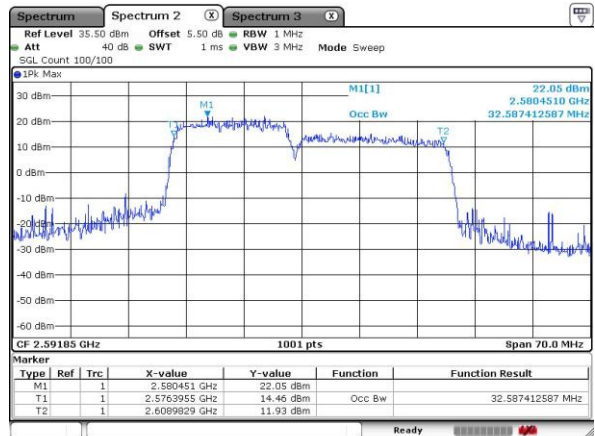
Date: 7 MAR 2018 22:05:40

Middle Channel / 15MHz+20MHz /QPSK



Date: 7 MAR 2018 22:01:33

Middle Channel / 15MHz+20MHz /16QAM

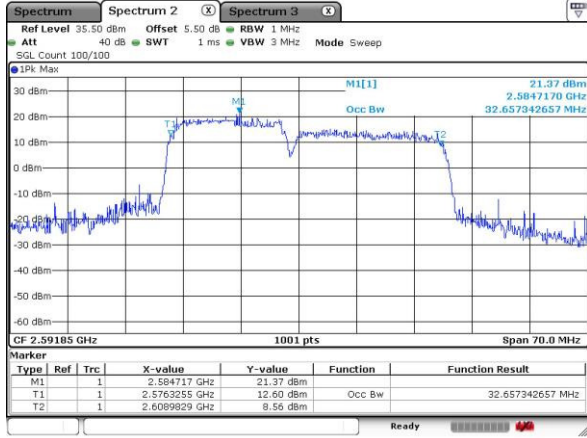


Date: 7 MAR 2018 22:02:41

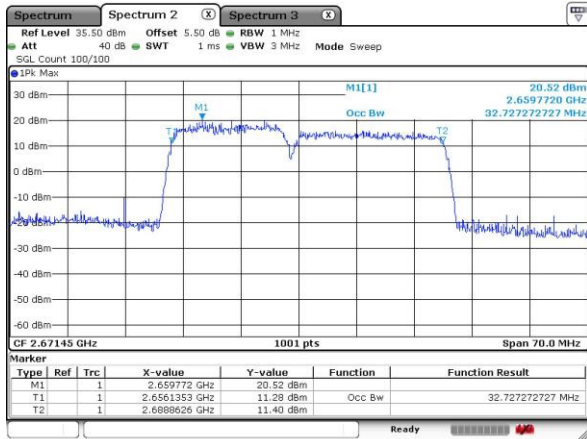


LTE Band 41

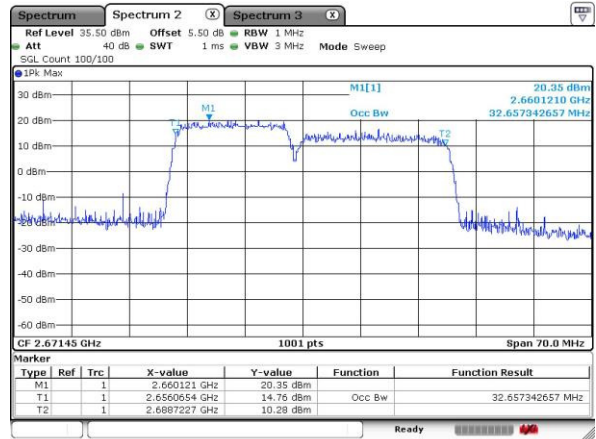
Middle Channel / 15MHz+20MHz /64QAM



Highest Channel / 15MHz+20MHz /QPSK



Highest Channel / 15MHz+20MHz /16QAM



Highest Channel / 15MHz+20MHz /64QAM

