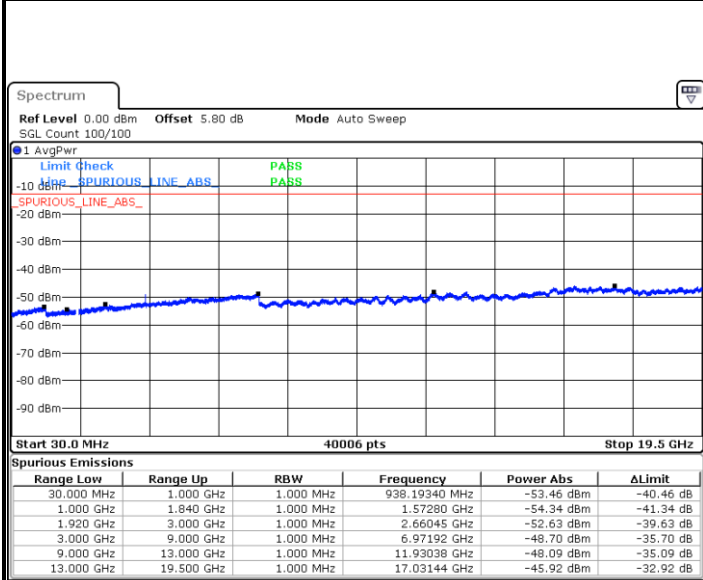




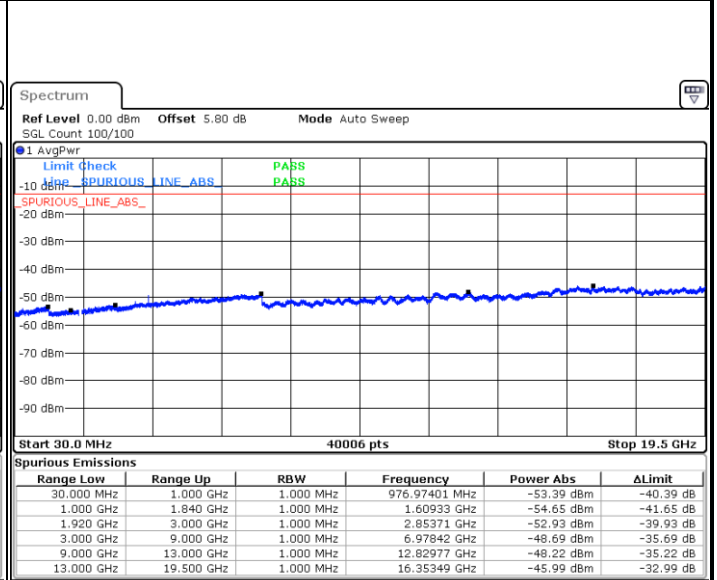
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 5 FEB 2020 14:07:47

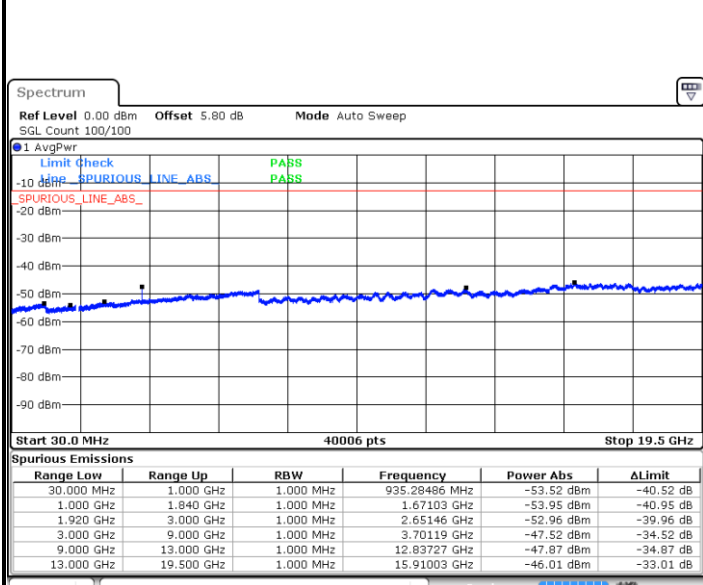
Highest Channel / 16QAM



Date: 5 FEB 2020 14:08:42

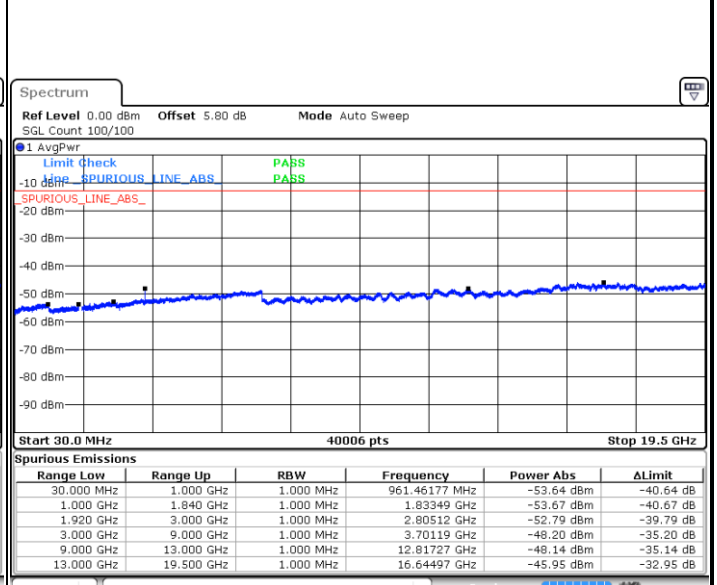
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 5 FEB 2020 14:14:46

Lowest Channel / 16QAM



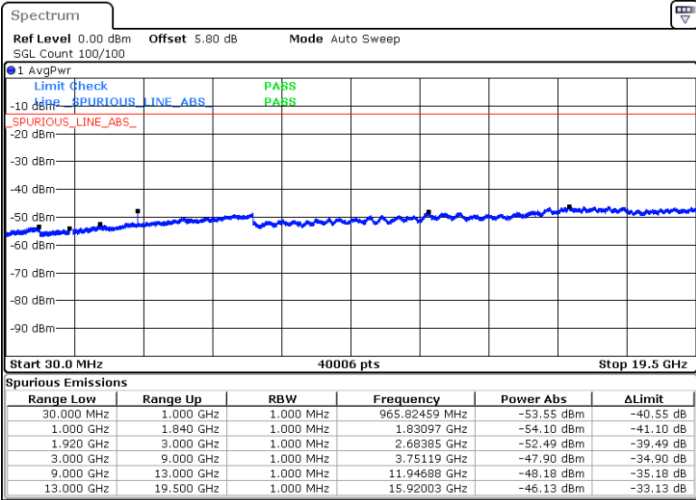
Date: 5 FEB 2020 14:15:41



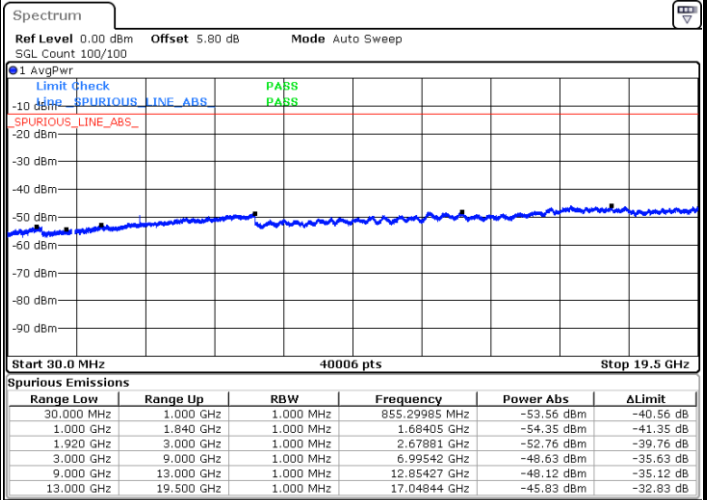
LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



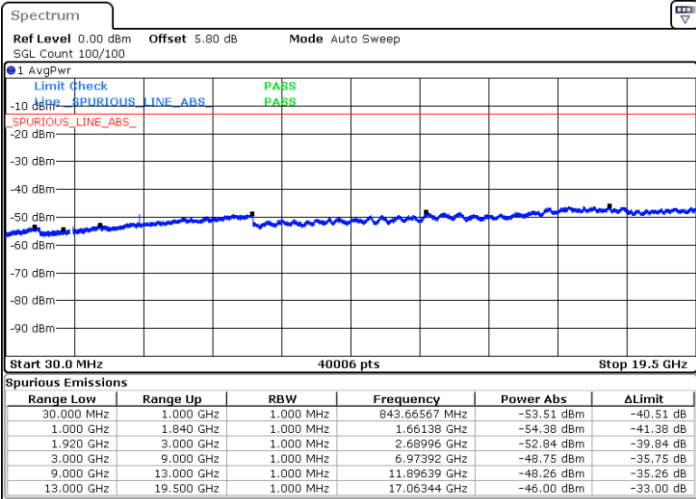
Date: 5 FEB 2020 14:17:16



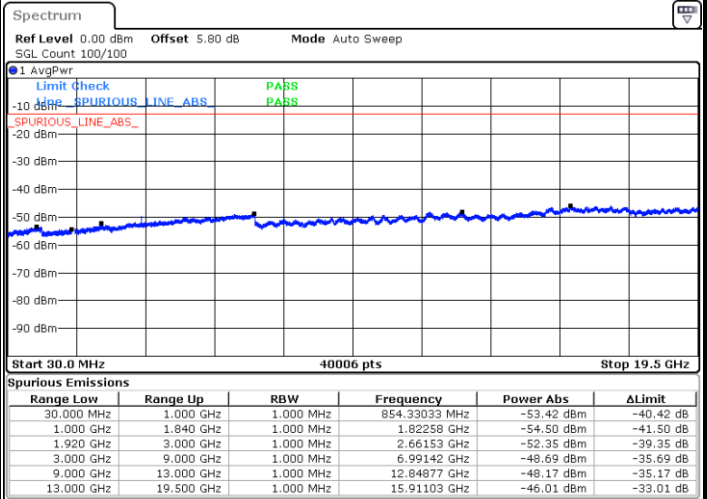
Date: 5 FEB 2020 14:18:10

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5 FEB 2020 14:24:15



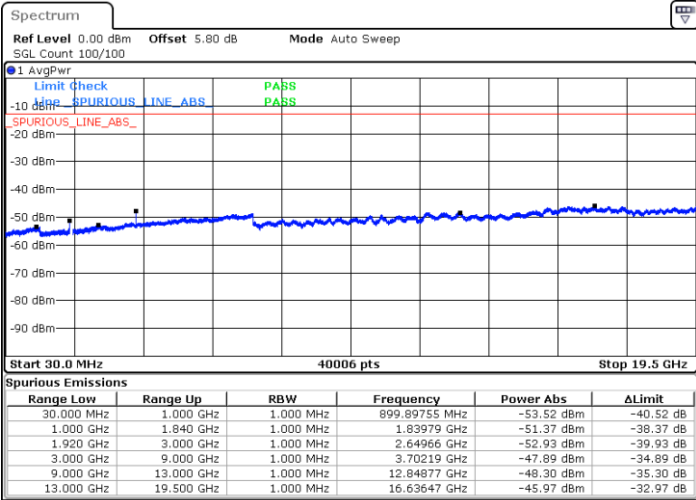
Date: 5 FEB 2020 14:25:09



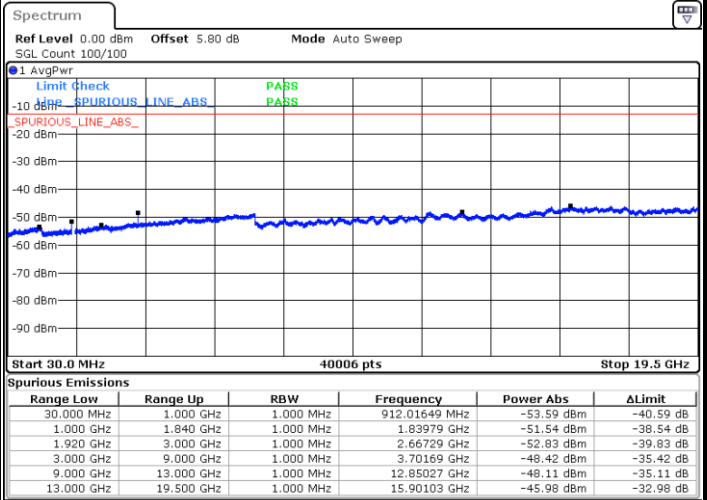
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



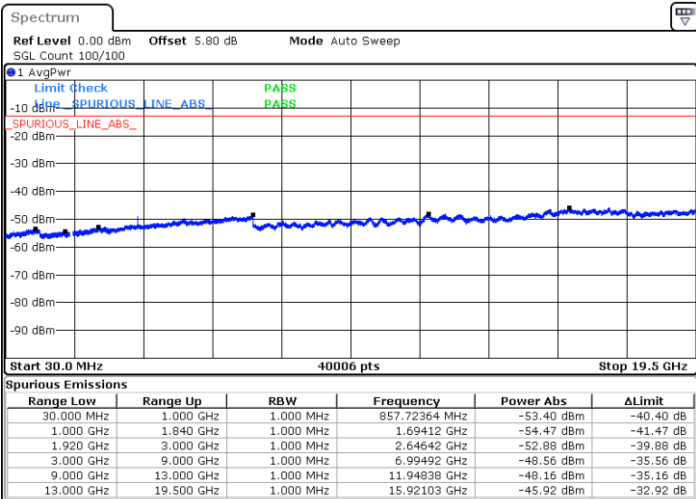
Date: 5 FEB 2020 14:31:14



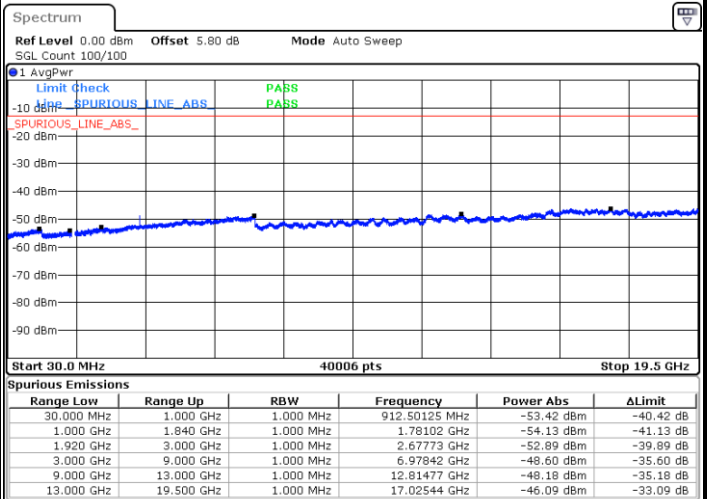
Date: 5 FEB 2020 14:32:08

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 5 FEB 2020 14:33:43

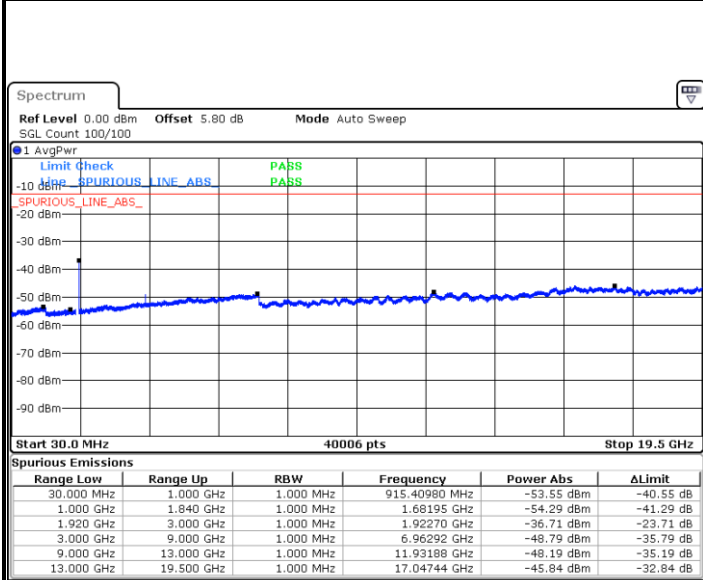


Date: 5 FEB 2020 14:34:37



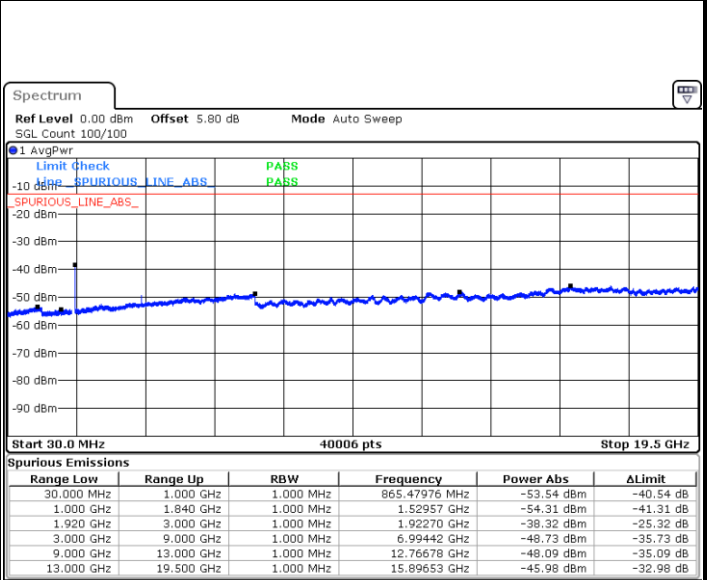
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 5 FEB 2020 14:40:42

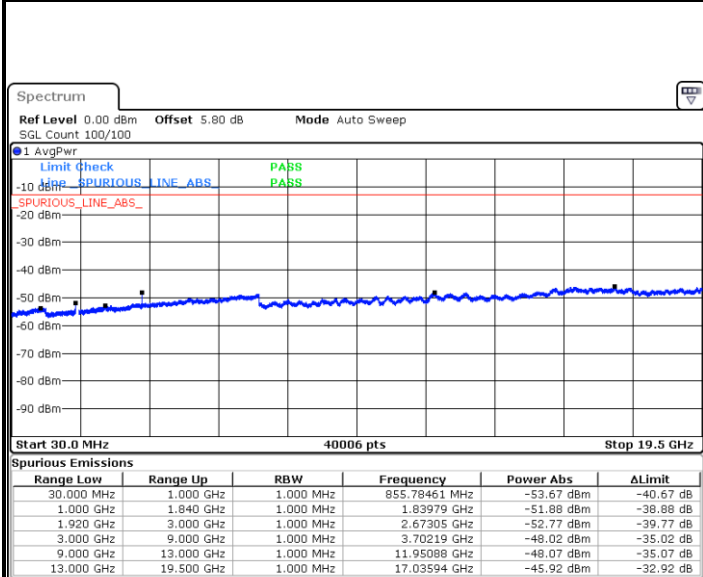
Highest Channel / 16QAM



Date: 5 FEB 2020 14:41:36

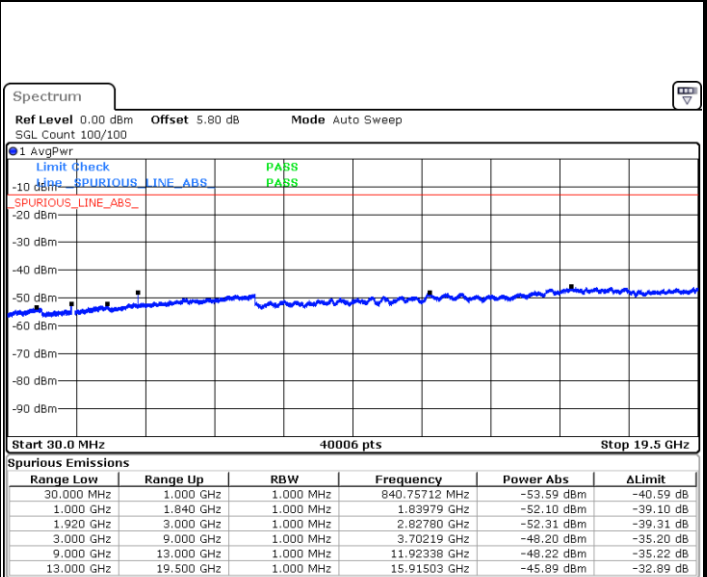
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 5 FEB 2020 14:47:41

Lowest Channel / 16QAM



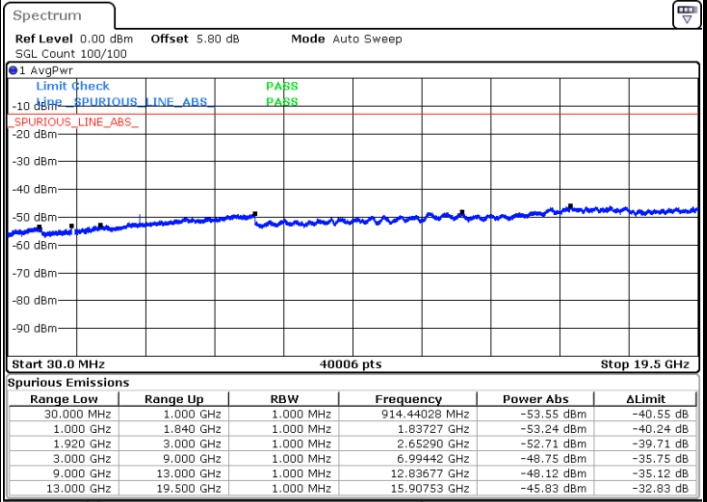
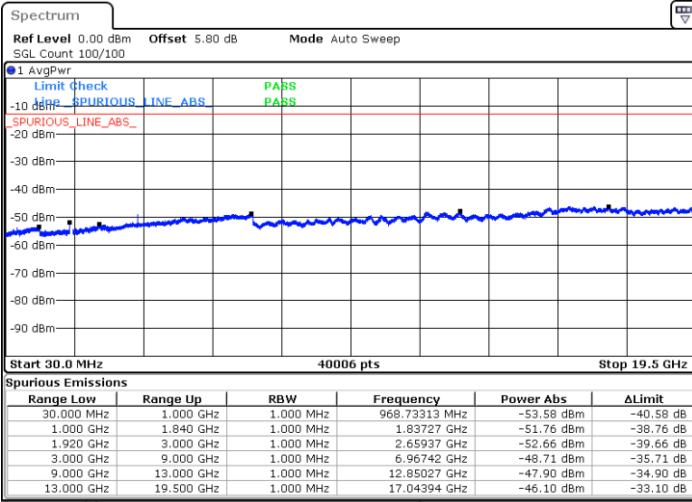
Date: 5 FEB 2020 14:48:36



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

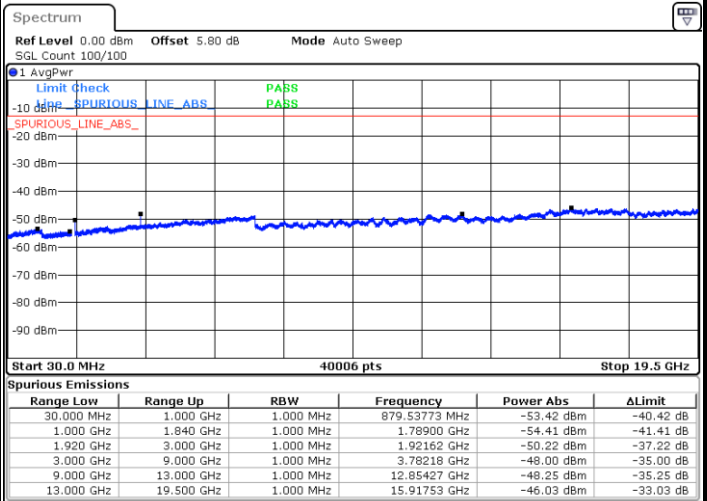
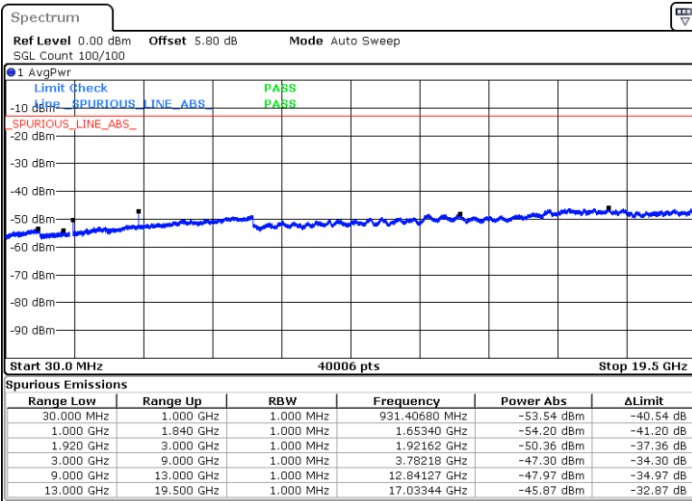


Date: 5 FEB 2020 14:50:10

Date: 5 FEB 2020 14:51:05

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5 FEB 2020 14:57:09

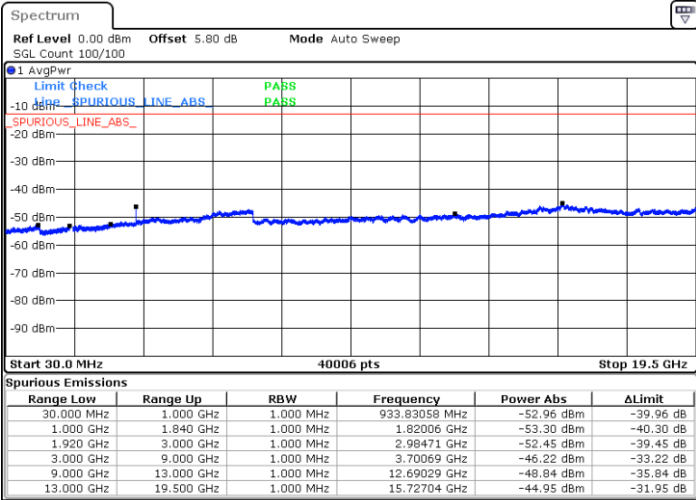
Date: 5 FEB 2020 14:58:04



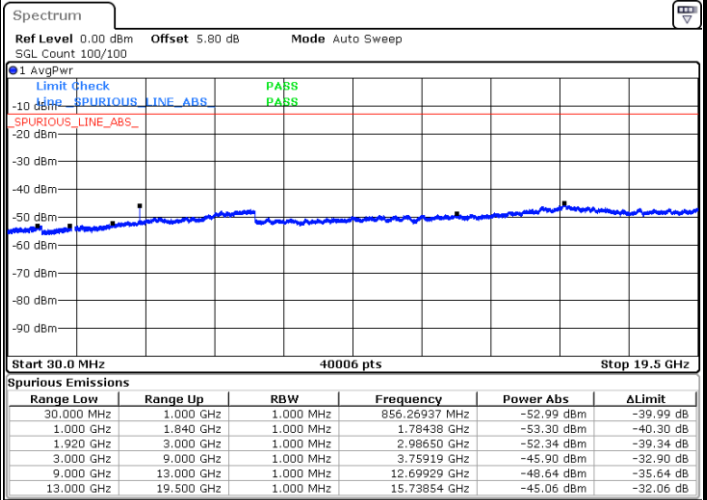
LTE Band 2 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

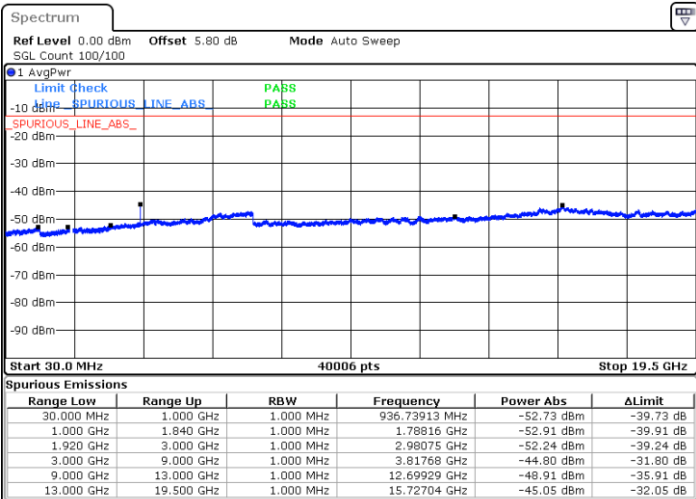


Date: 15.FEB.2020 00:24:38



Date: 15.FEB.2020 00:25:32

Highest Channel / 64QAM

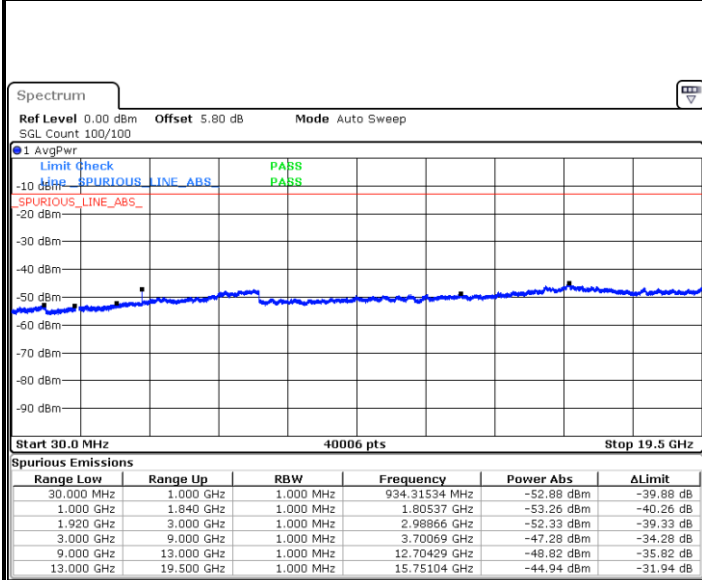


Date: 15.FEB.2020 00:26:27



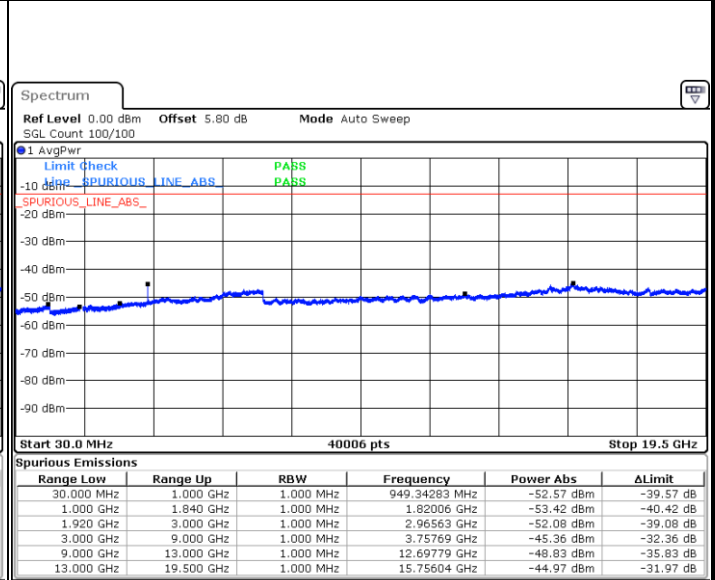
LTE Band 2 / 3MHz

Lowest Channel / 64QAM



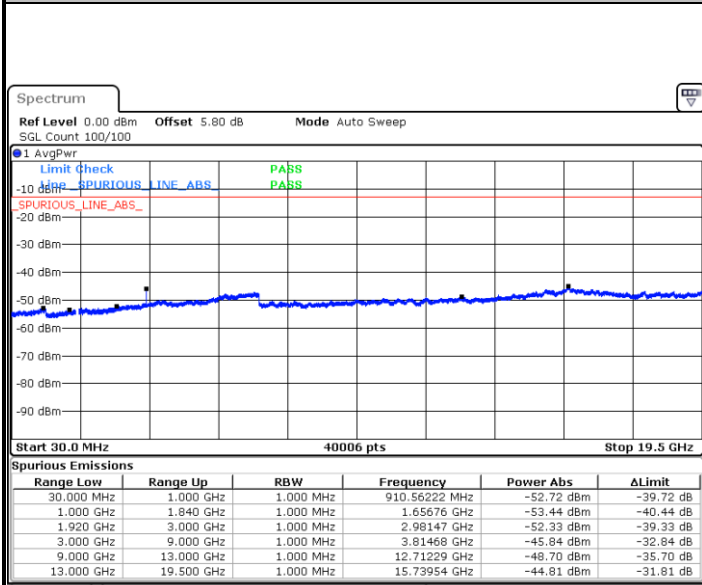
Date: 15.FEB.2020 00:27:21

Middle Channel / 64QAM



Date: 15.FEB.2020 00:28:16

Highest Channel / 64QAM



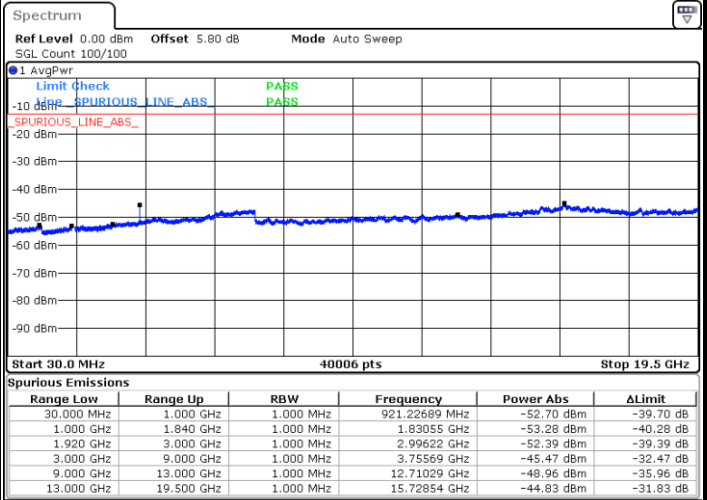
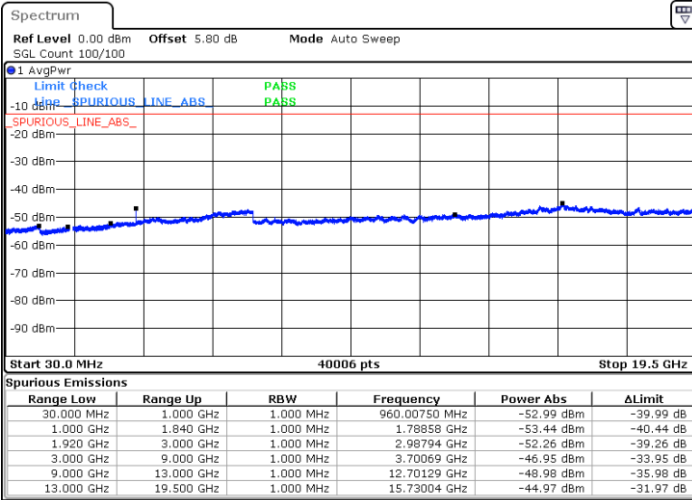
Date: 15.FEB.2020 00:29:10



LTE Band 2 / 5MHz

Lowest Channel / 64QAM

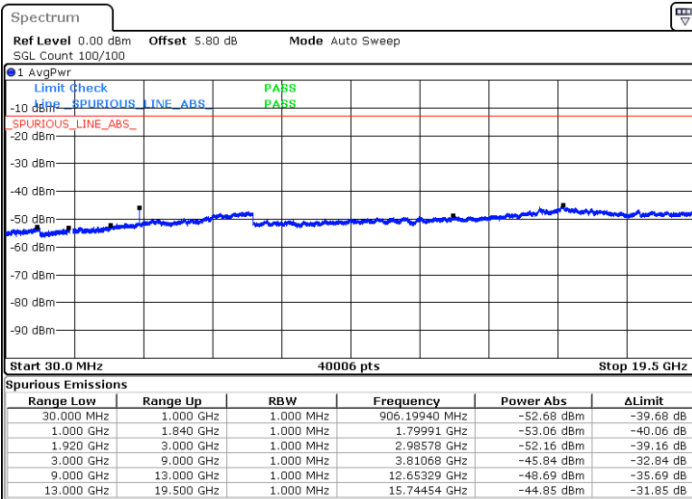
Middle Channel / 64QAM



Date: 15.FEB.2020 00:30:04

Date: 15.FEB.2020 00:30:59

Highest Channel / 64QAM



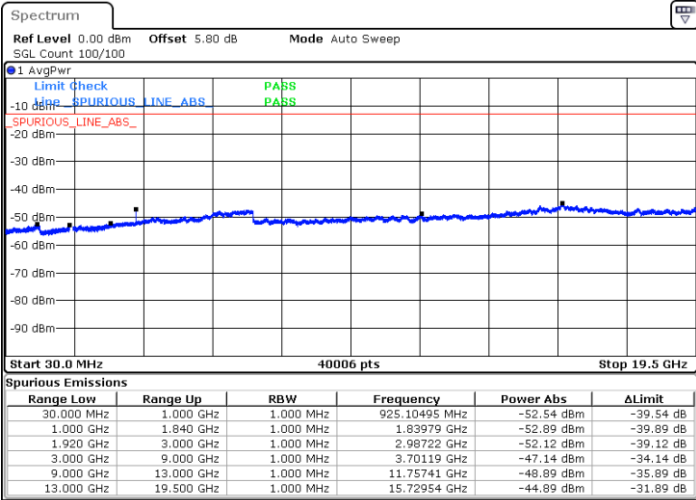
Date: 15.FEB.2020 00:31:53



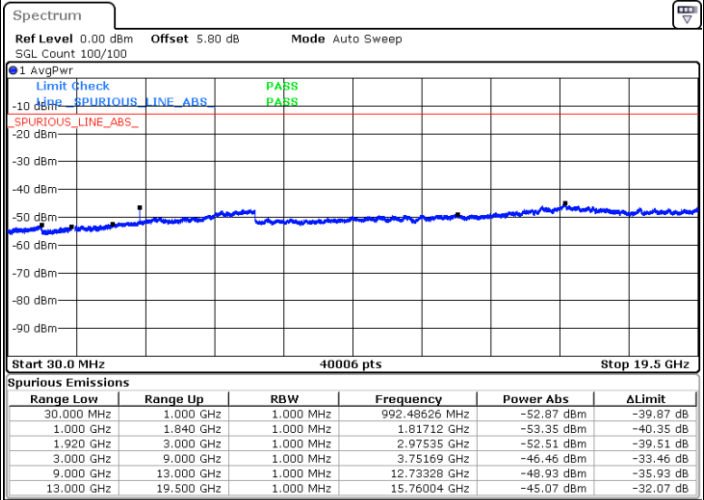
LTE Band 2 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

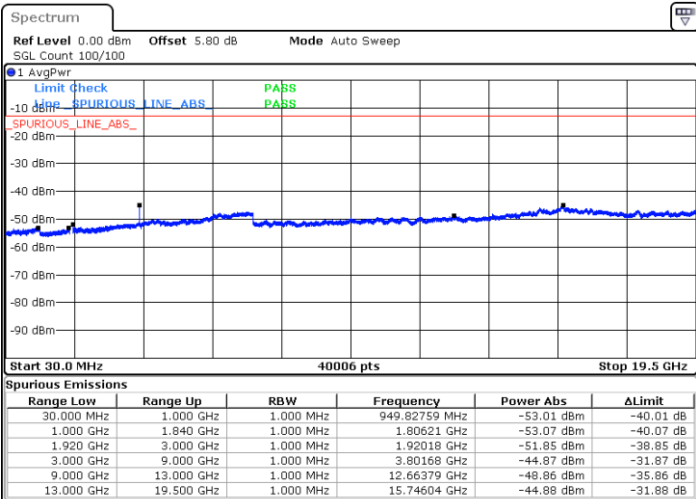


Date: 15.FEB.2020 00:32:48



Date: 15.FEB.2020 00:33:42

Highest Channel / 64QAM



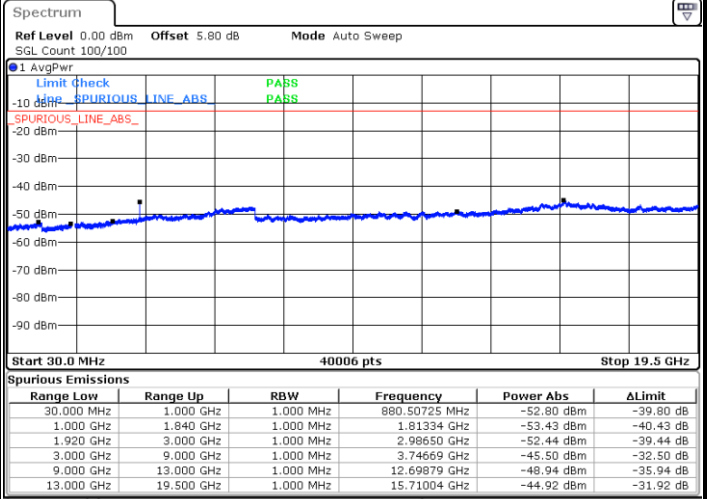
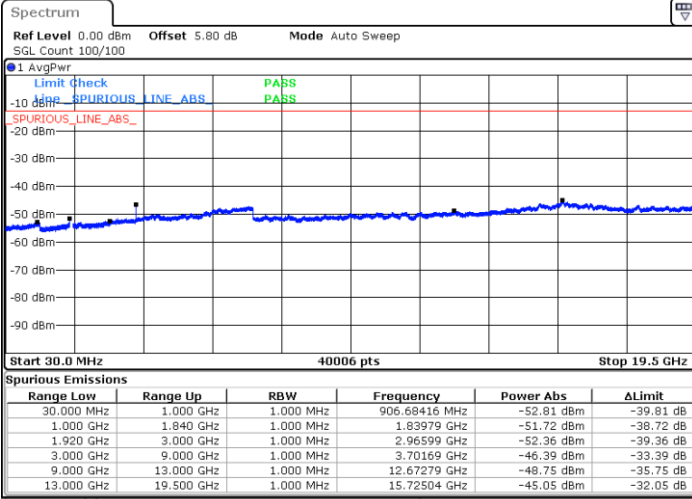
Date: 15.FEB.2020 00:34:37



LTE Band 2 / 15MHz

Lowest Channel / 64QAM

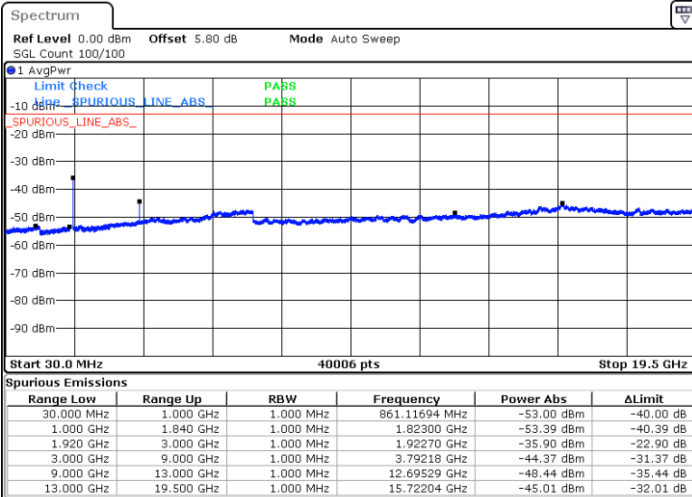
Middle Channel / 64QAM



Date: 15.FEB.2020 00:35:31

Date: 15.FEB.2020 00:36:26

Highest Channel / 64QAM

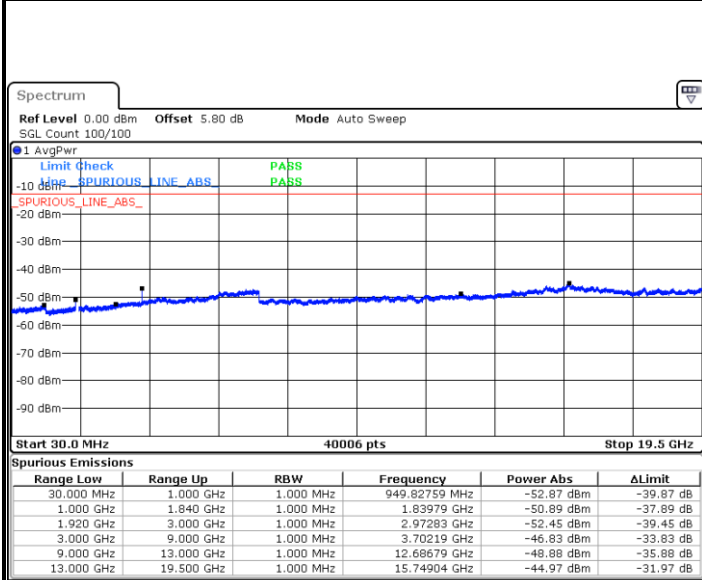


Date: 15.FEB.2020 00:37:20



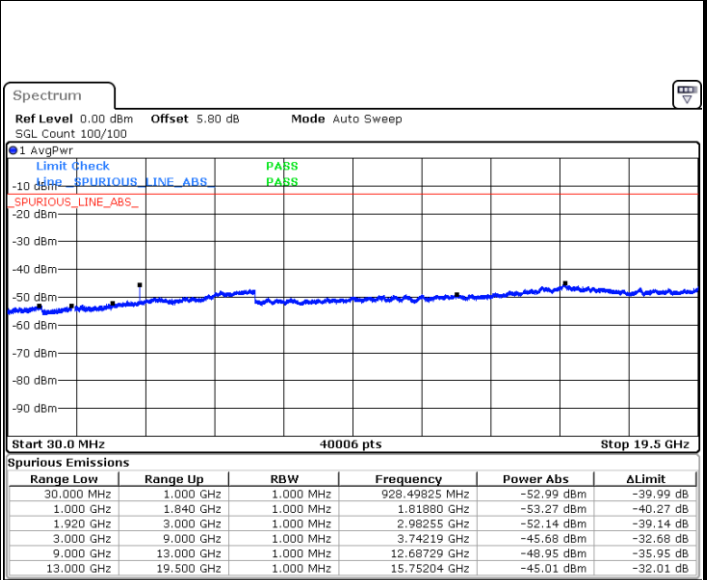
LTE Band 2 / 20MHz

Lowest Channel / 64QAM



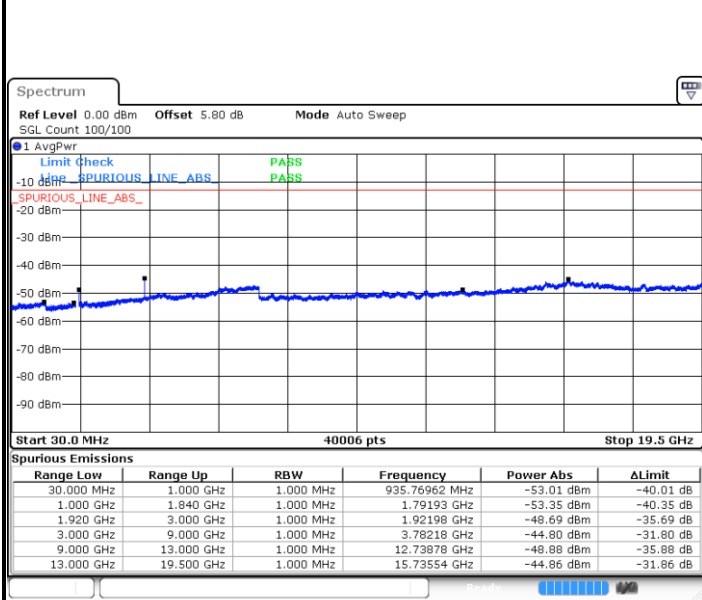
Date: 15.FEB.2020 00:38:15

Middle Channel / 64QAM



Date: 15.FEB.2020 00:39:09

Highest Channel / 64QAM



Date: 15.FEB.2020 00:40:03



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =3.85V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

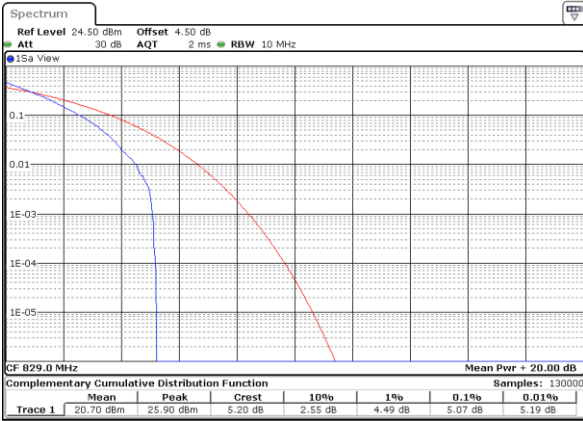
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.07	5.33	6.20	6.03	PASS
Middle CH	4.64	5.42	5.88	6.17	
Highest CH	5.42	5.48	6.32	6.32	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.10	6.00	-	-	PASS
Middle CH	5.42	6.32	-	-	
Highest CH	6.03	6.43	-	-	



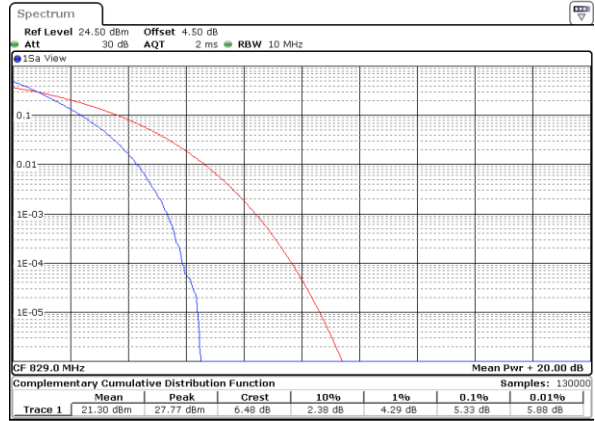
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



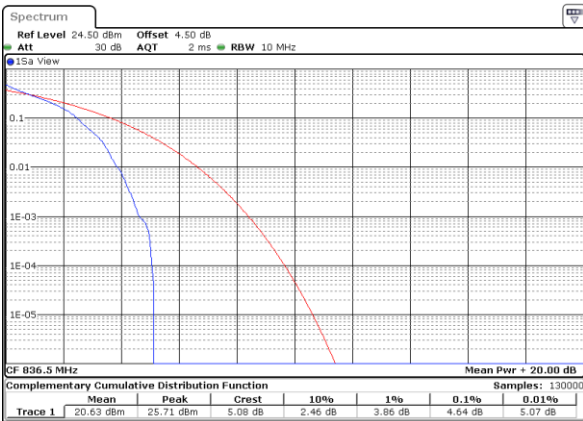
Date: 5 FEB 2020 18:34:08

Lowest Channel / Full RB



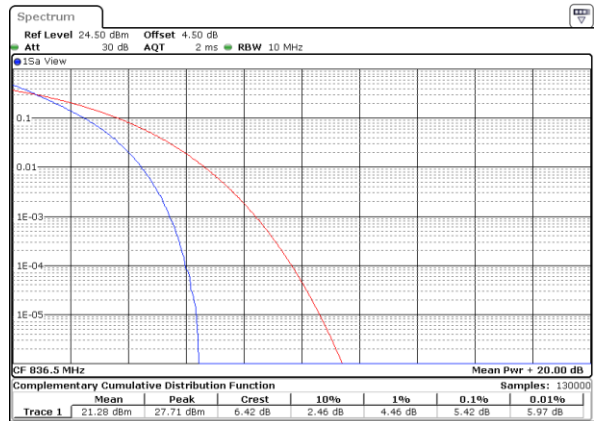
Date: 5 FEB 2020 18:34:17

Middle Channel / 1RB



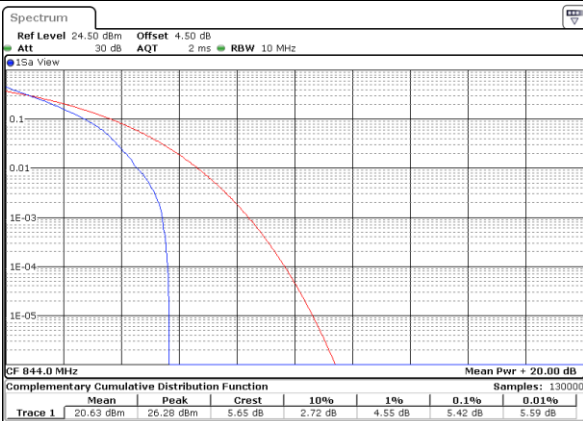
Date: 5 FEB 2020 18:33:58

Middle Channel / Full RB



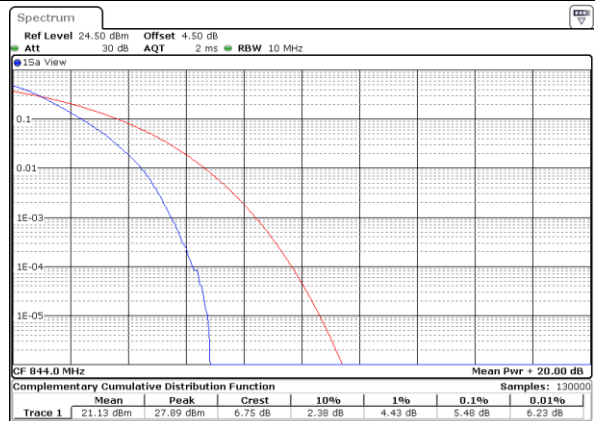
Date: 5 FEB 2020 18:33:49

Highest Channel / 1RB



Date: 5 FEB 2020 18:33:31

Highest Channel / Full RB

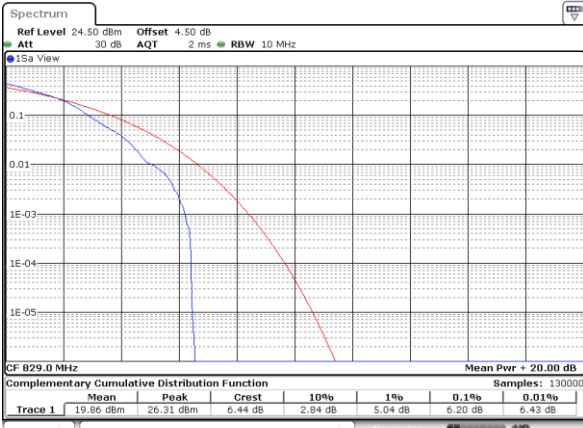


Date: 5 FEB 2020 18:33:40



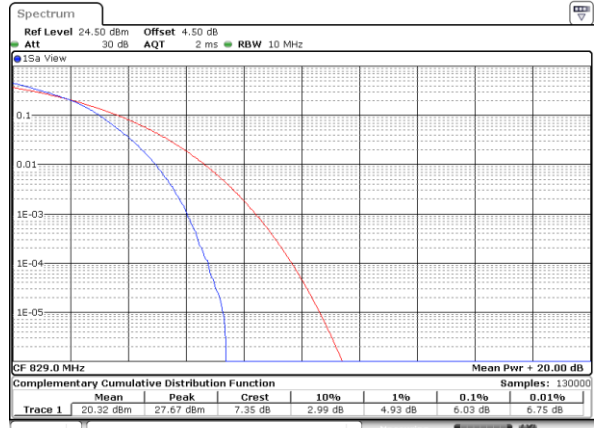
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



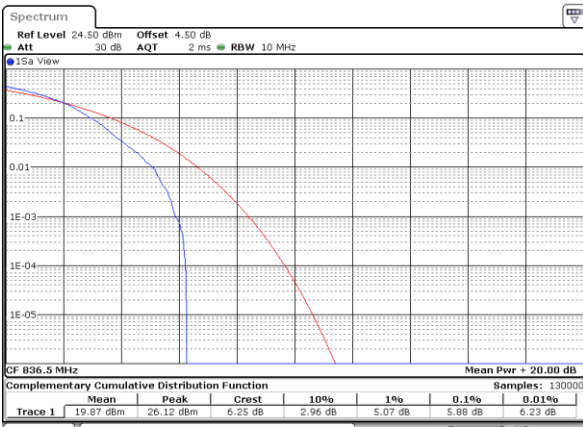
Date: 5 FEB 2020 18:32:32

Lowest Channel / Full RB



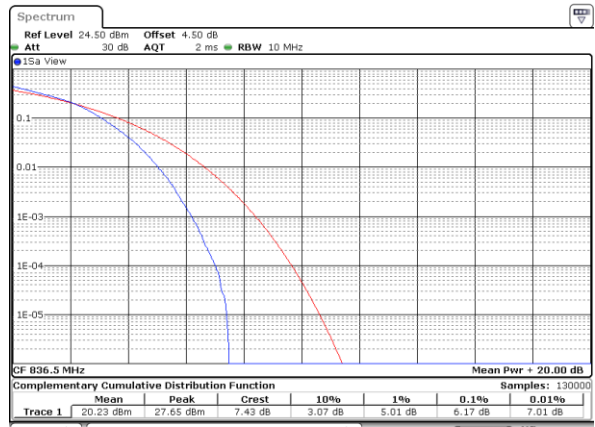
Date: 5 FEB 2020 18:32:41

Middle Channel / 1RB



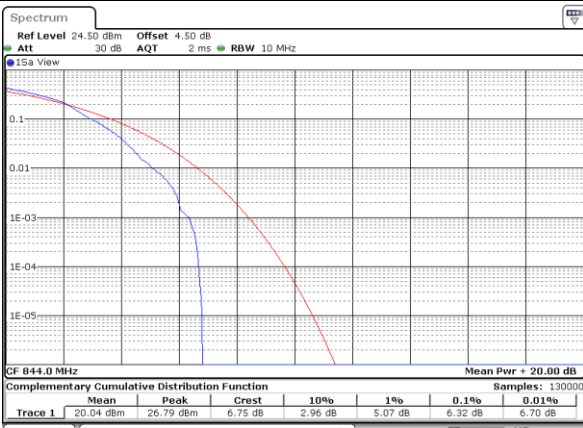
Date: 5 FEB 2020 18:32:51

Middle Channel / Full RB



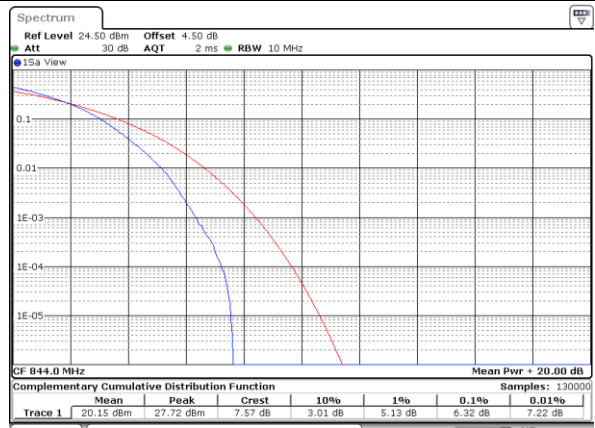
Date: 5 FEB 2020 18:33:02

Highest Channel / 1RB



Date: 5 FEB 2020 18:33:11

Highest Channel / Full RB

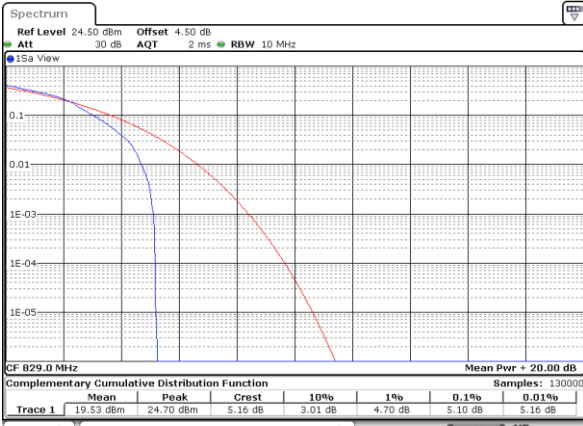


Date: 5 FEB 2020 18:33:21



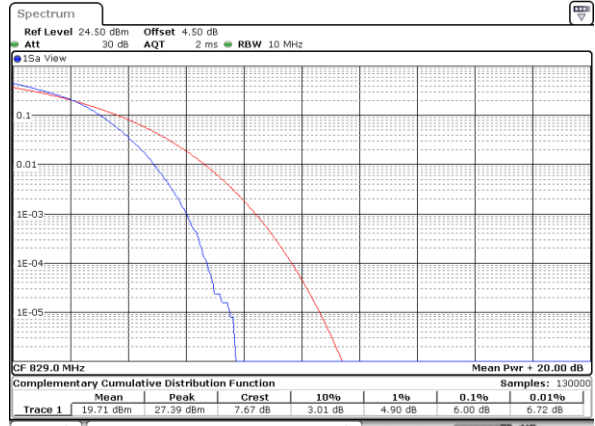
LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



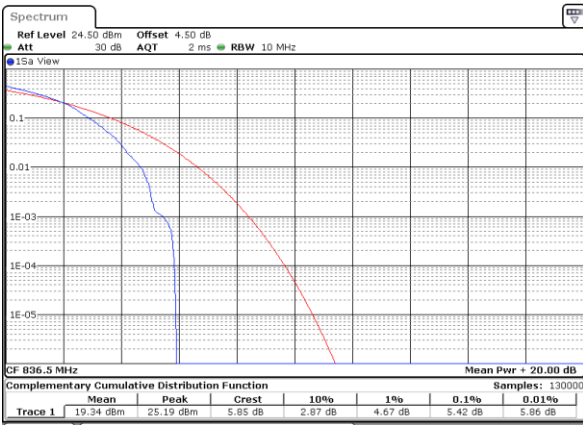
Date: 15 FEB 2020 02:20:08

Lowest Channel / Full RB



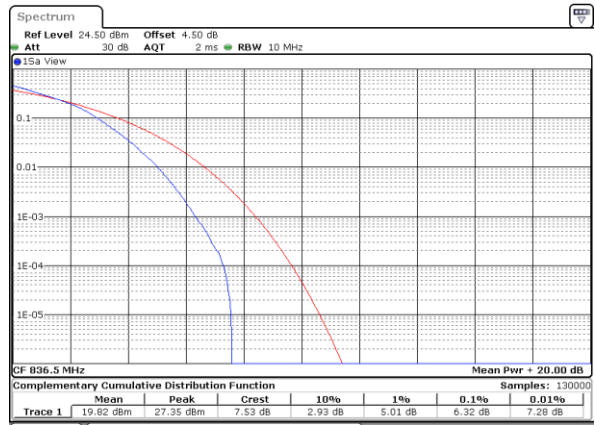
Date: 15 FEB 2020 02:20:17

Middle Channel / 1RB



Date: 15 FEB 2020 02:19:59

Middle Channel / Full RB



Date: 15 FEB 2020 02:19:50

Highest Channel / 1RB



Date: 15 FEB 2020 02:19:32

Highest Channel / Full RB



Date: 15 FEB 2020 02:19:41



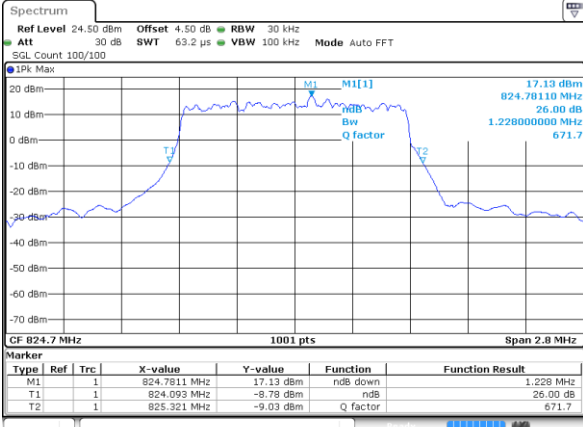
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.28	2.94	2.96	4.72	4.90	9.73	9.79
Middle CH	1.29	1.28	2.97	2.94	4.79	4.95	9.73	9.81
Highest CH	1.28	1.28	2.97	2.93	4.83	4.83	9.75	9.75
Mode	LTE Band 5 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.30		2.95		4.85		9.83	
Middle CH	1.27		2.96		4.82		9.69	
Highest CH	1.26		2.95		4.86		9.65	



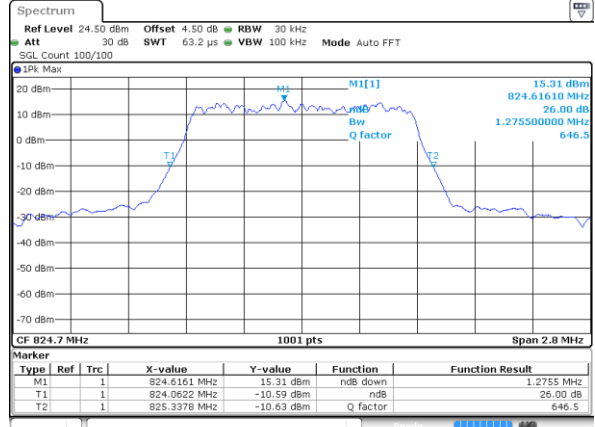
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



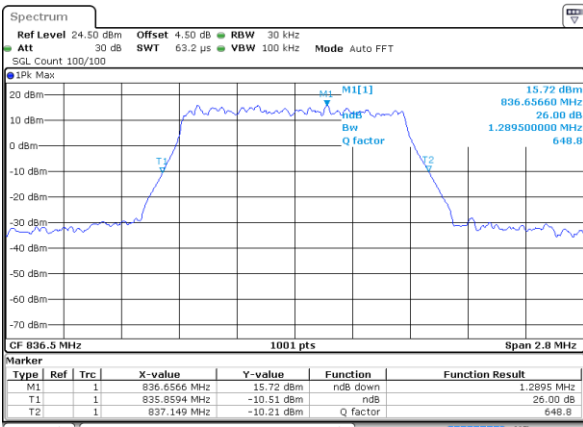
Date: 5 FEB 2020 16:58:46

Lowest Channel / 1.4MHz / 16QAM



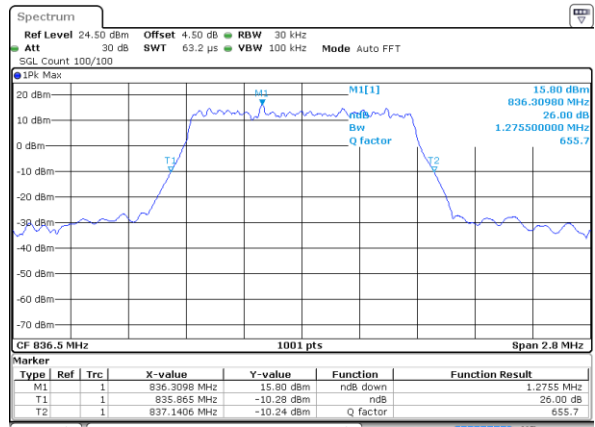
Date: 5 FEB 2020 16:58:36

Middle Channel / 1.4MHz / QPSK



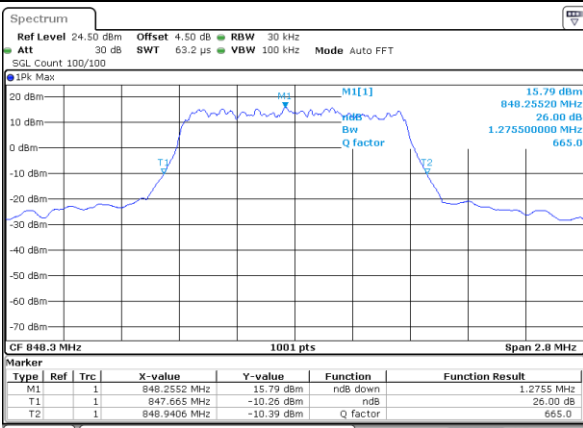
Date: 5 FEB 2020 17:11:40

Middle Channel / 1.4MHz / 16QAM



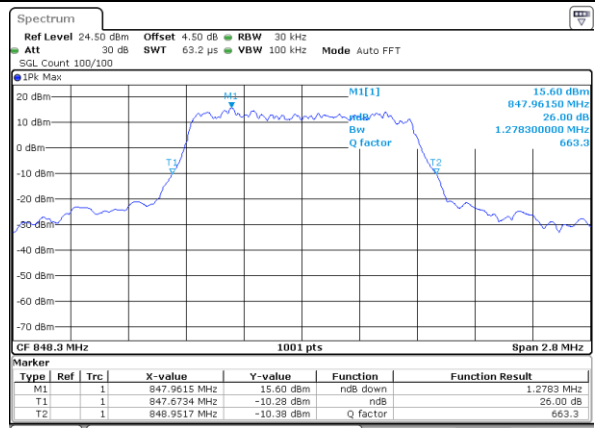
Date: 5 FEB 2020 17:11:50

Highest Channel / 1.4MHz / QPSK



Date: 5 FEB 2020 17:14:09

Highest Channel / 1.4MHz / 16QAM

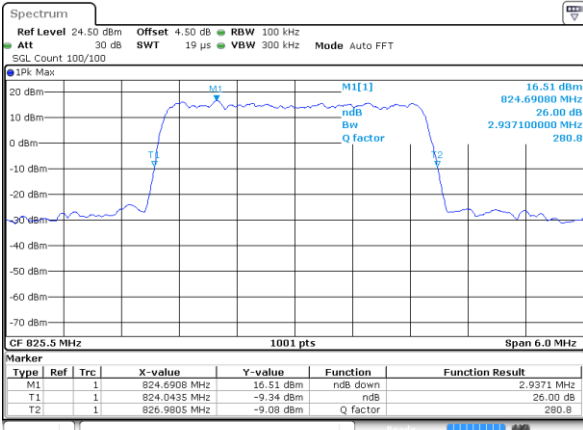


Date: 5 FEB 2020 17:14:19



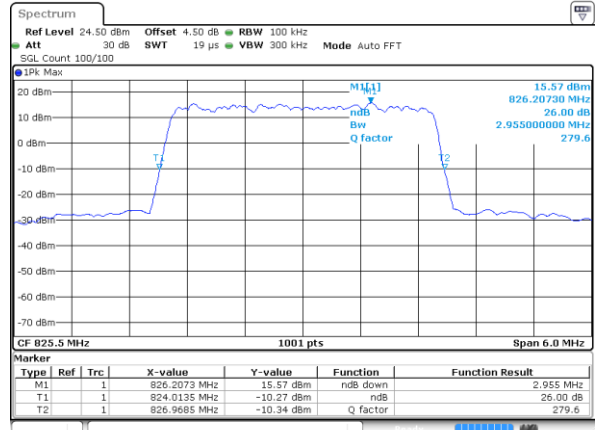
LTE Band 5

Lowest Channel / 3MHz / QPSK



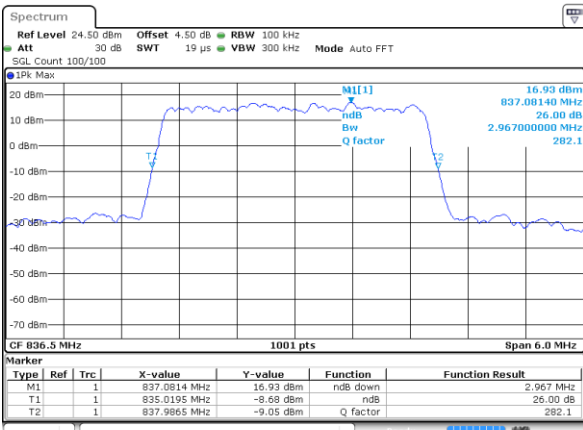
Date: 5 FEB 2020 17:23:07

Lowest Channel / 3MHz / 16QAM



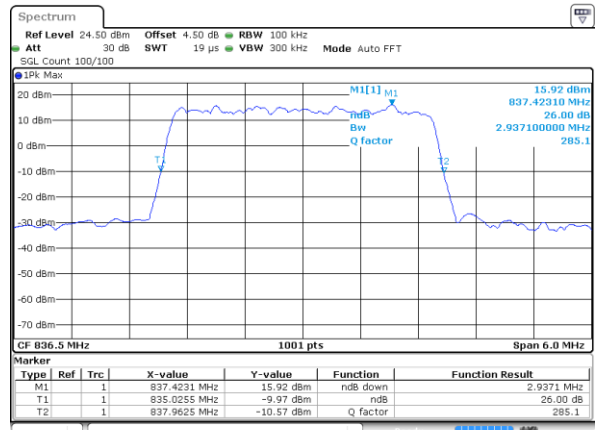
Date: 5 FEB 2020 17:23:17

Middle Channel / 3MHz / QPSK



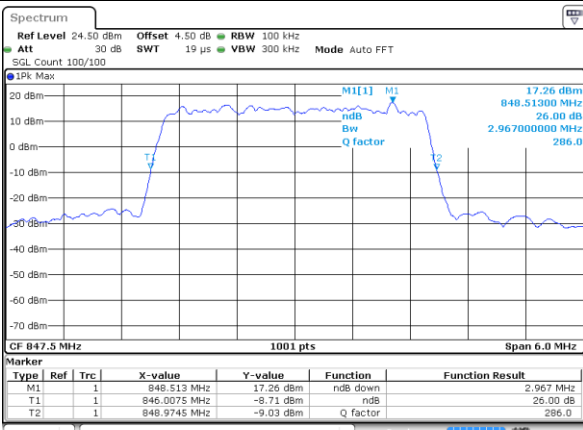
Date: 5 FEB 2020 17:32:06

Middle Channel / 3MHz / 16QAM



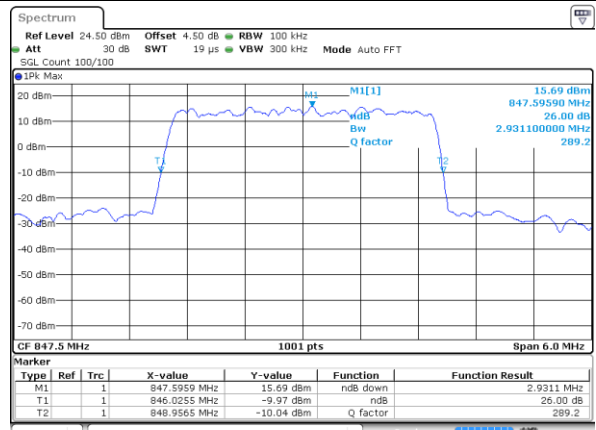
Date: 5 FEB 2020 17:32:16

Highest Channel / 3MHz / QPSK



Date: 5 FEB 2020 17:34:35

Highest Channel / 3MHz / 16QAM

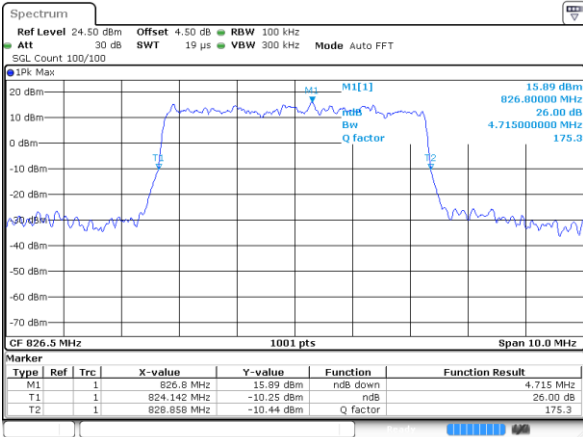


Date: 5 FEB 2020 17:34:45



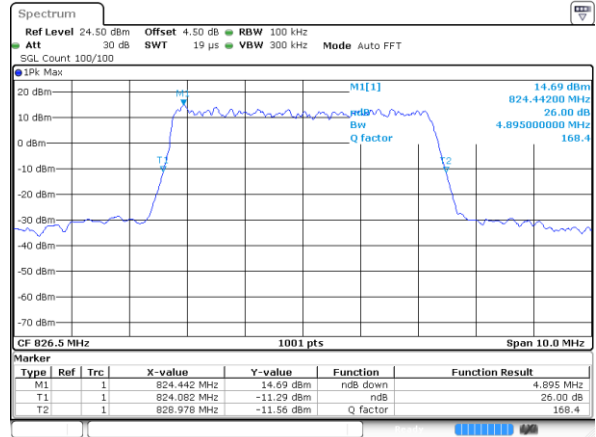
LTE Band 5

Lowest Channel / 5MHz / QPSK



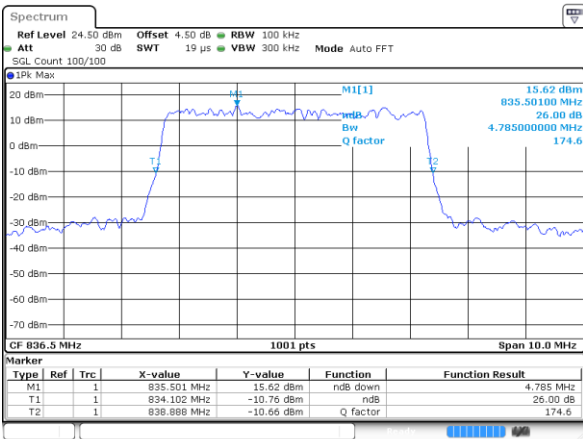
Date: 5 FEB 2020 17:43:34

Lowest Channel / 5MHz / 16QAM



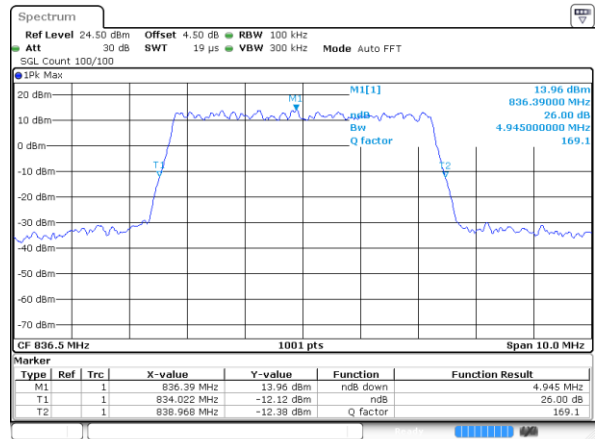
Date: 5 FEB 2020 17:43:44

Middle Channel / 5MHz / QPSK



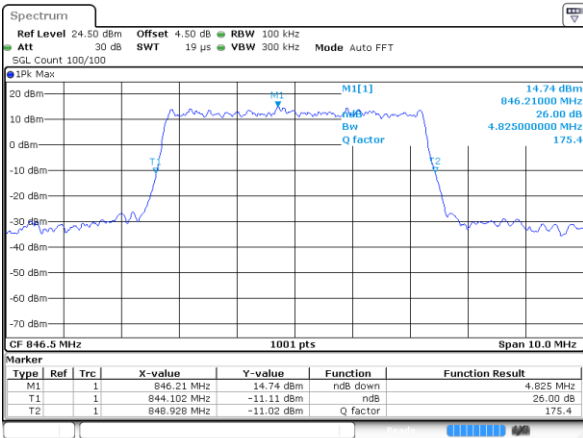
Date: 5 FEB 2020 17:52:32

Middle Channel / 5MHz / 16QAM



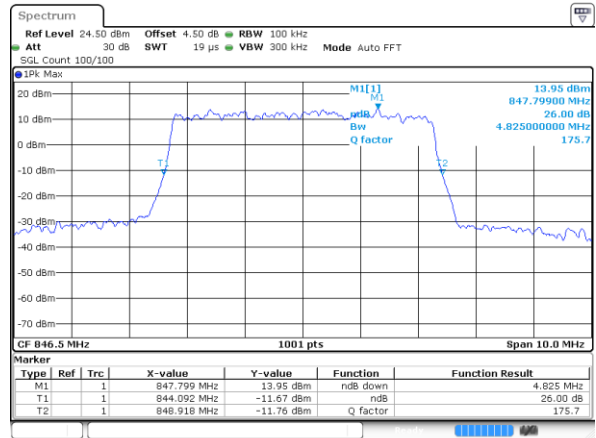
Date: 5 FEB 2020 17:52:42

Highest Channel / 5MHz / QPSK



Date: 5 FEB 2020 17:55:01

Highest Channel / 5MHz / 16QAM

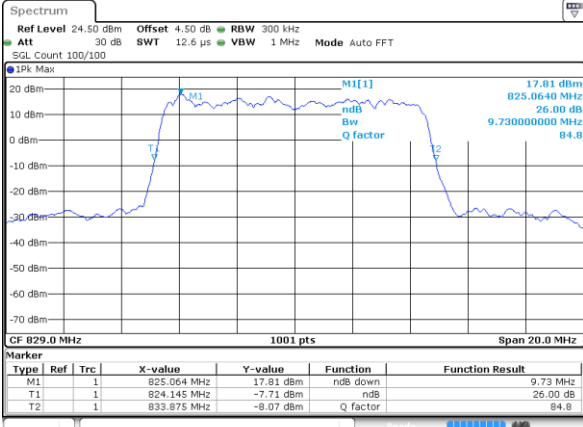


Date: 5 FEB 2020 17:55:11



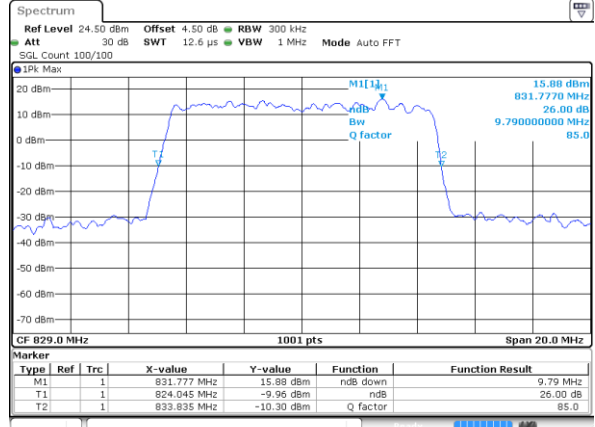
LTE Band 5

Lowest Channel / 10MHz / QPSK



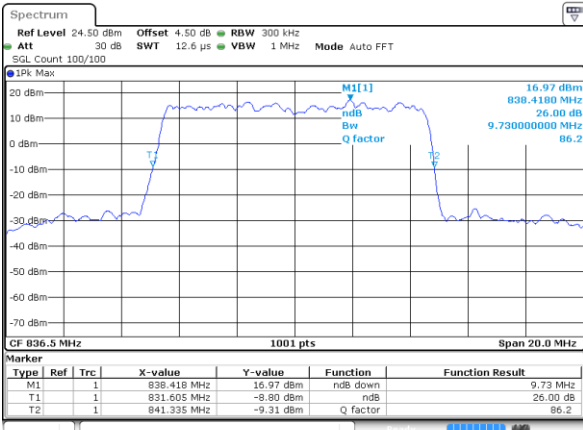
Date: 5 FEB 2020 18:04:00

Lowest Channel / 10MHz / 16QAM



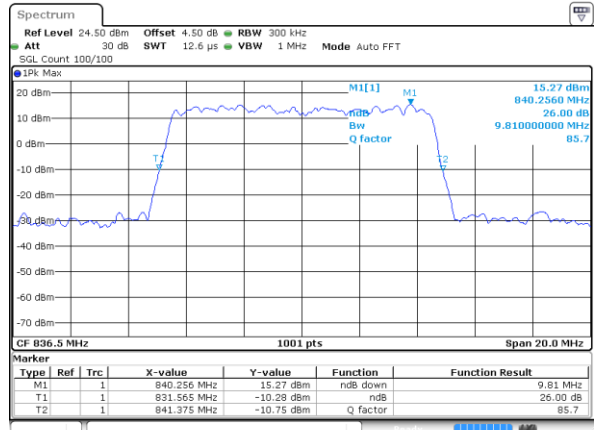
Date: 5 FEB 2020 18:04:10

Middle Channel / 10MHz / QPSK



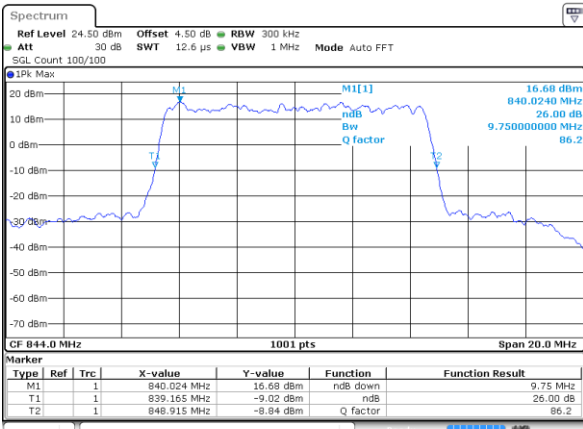
Date: 5 FEB 2020 18:12:58

Middle Channel / 10MHz / 16QAM



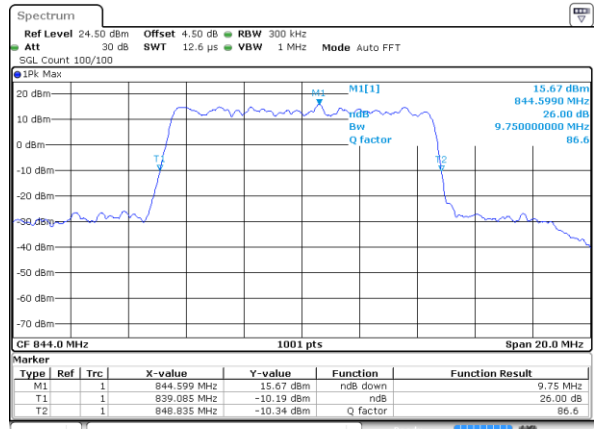
Date: 5 FEB 2020 18:13:08

Highest Channel / 10MHz / QPSK



Date: 5 FEB 2020 18:15:27

Highest Channel / 10MHz / 16QAM

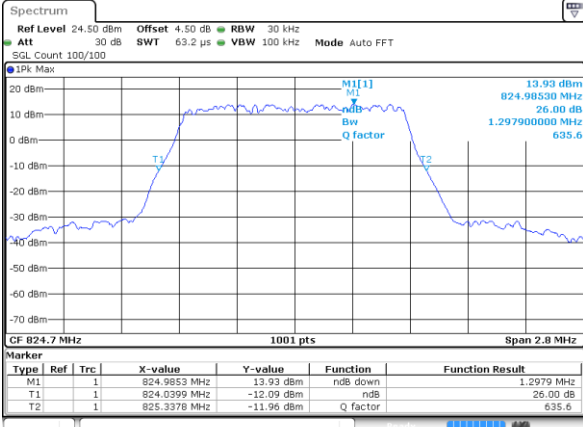


Date: 5 FEB 2020 18:15:37



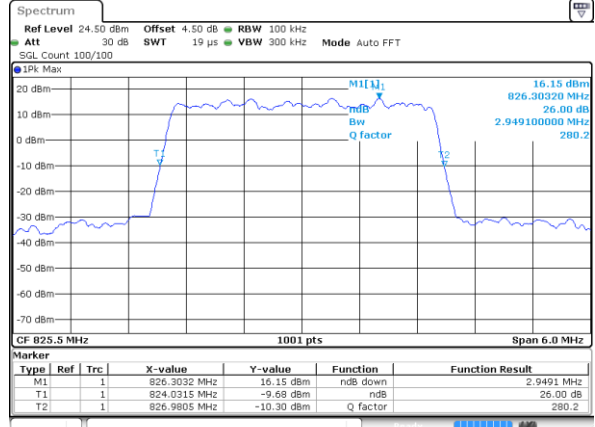
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



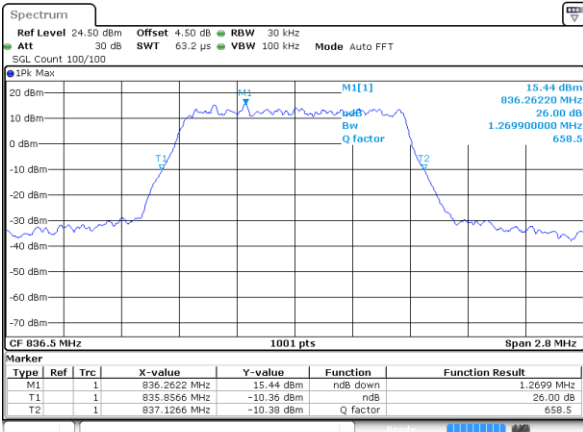
Date: 15 FEB 2020 01:38:55

Lowest Channel / 3MHz / 64QAM



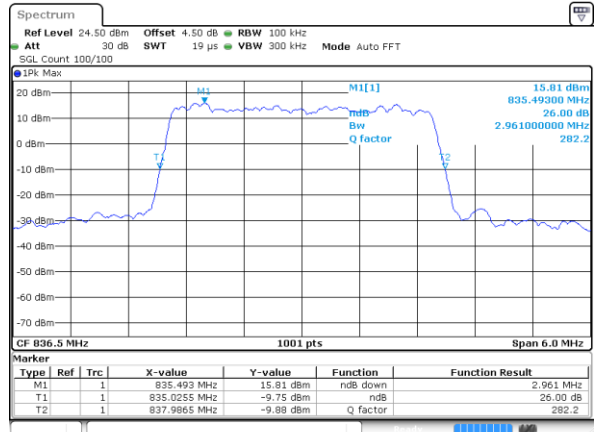
Date: 15 FEB 2020 01:49:07

Middle Channel / 1.4MHz / 64QAM



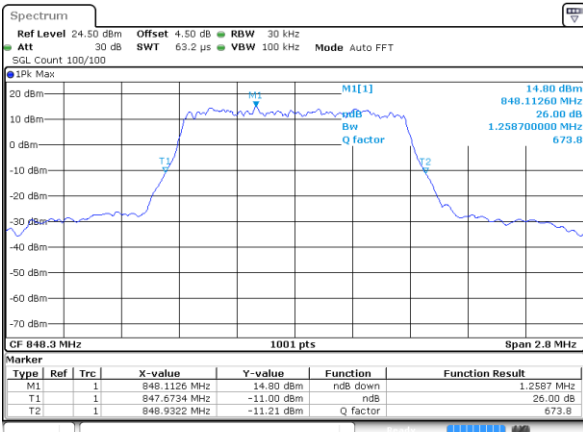
Date: 15 FEB 2020 01:44:18

Middle Channel / 3MHz / 64QAM



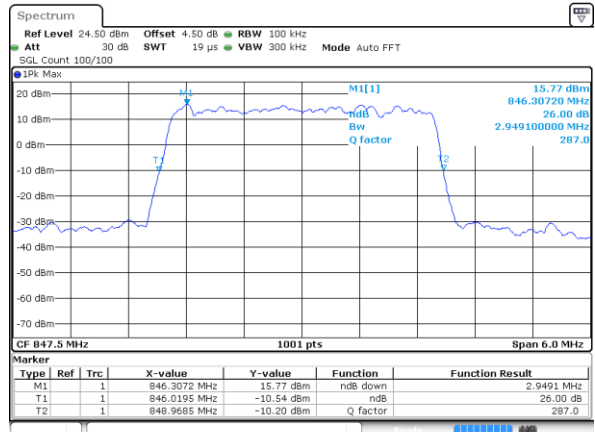
Date: 15 FEB 2020 01:54:30

Highest Channel / 1.4MHz / 64QAM



Date: 15 FEB 2020 01:44:38

Highest Channel / 3MHz / 64QAM

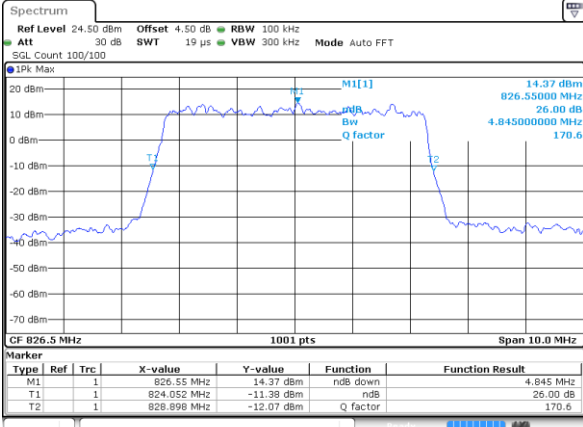


Date: 15 FEB 2020 01:54:50



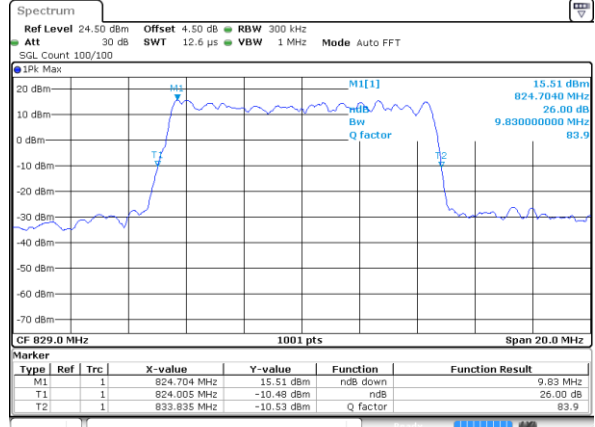
LTE Band 5

Lowest Channel / 5MHz / 64QAM



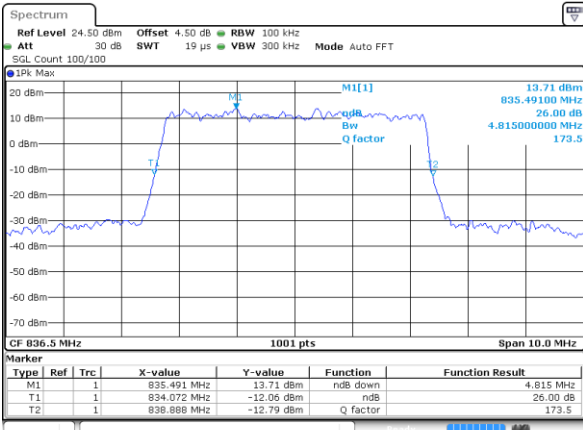
Date: 15 FEB 2020 01:59:19

Lowest Channel / 10MHz / 64QAM



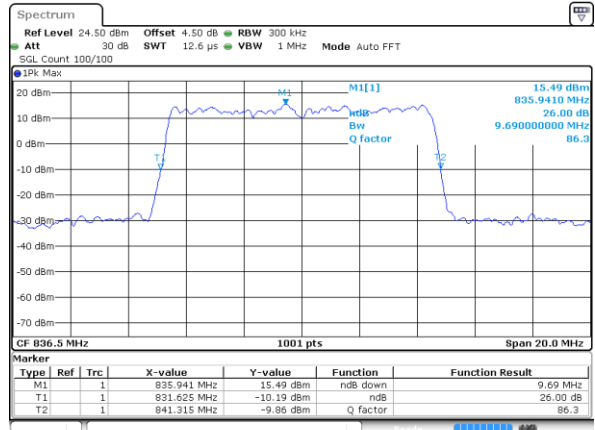
Date: 15 FEB 2020 02:09:30

Middle Channel / 5MHz / 64QAM



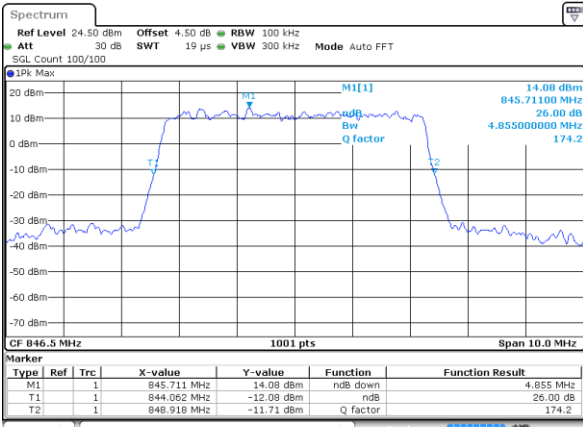
Date: 15 FEB 2020 02:04:41

Middle Channel / 10MHz / 64QAM



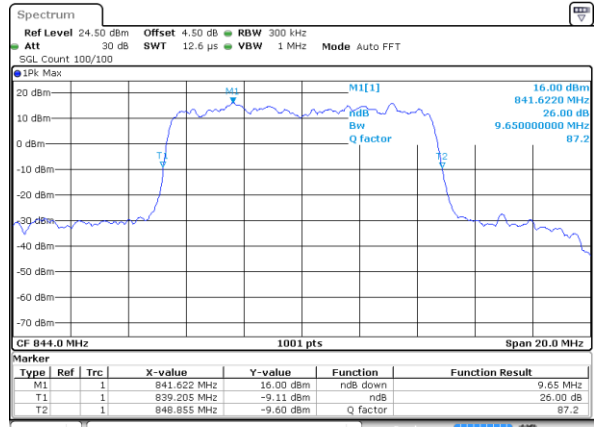
Date: 15 FEB 2020 02:14:53

Highest Channel / 5MHz / 64QAM



Date: 15 FEB 2020 02:05:01

Highest Channel / 10MHz / 64QAM



Date: 15 FEB 2020 02:15:13



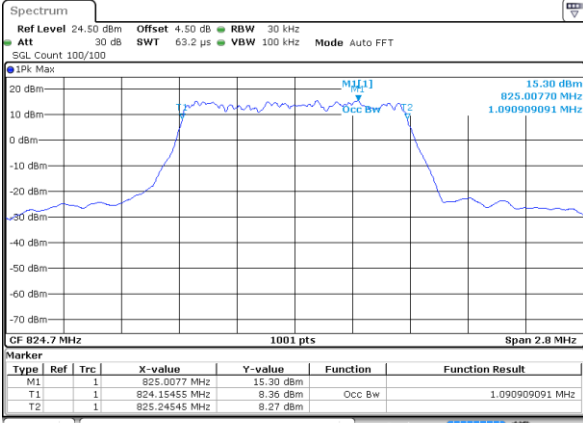
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.70	4.51	4.50	9.03	9.03
Middle CH	1.10	1.09	2.70	2.70	4.48	4.50	9.03	9.07
Highest CH	1.09	1.09	2.71	2.72	4.49	4.48	9.07	9.01
Mode	LTE Band 5 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.08		2.72		4.46		9.01	
Middle CH	1.08		2.72		4.50		9.07	
Highest CH	1.10		2.70		4.46		9.01	



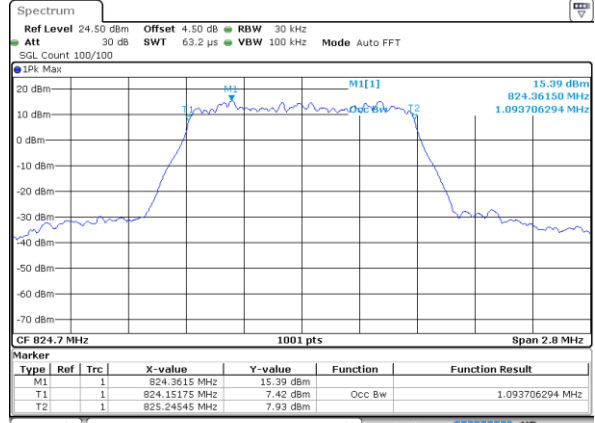
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



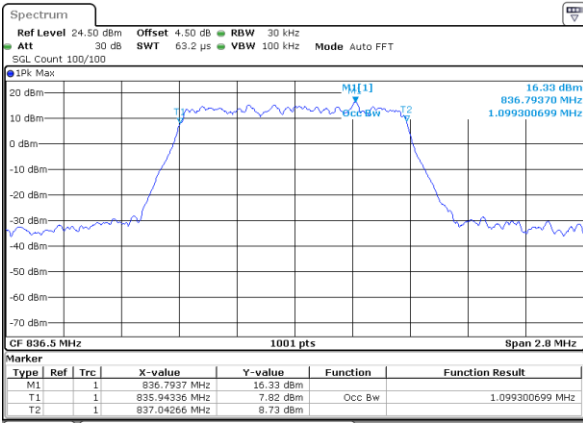
Date: 5 FEB 2020 16:58:16

Lowest Channel / 1.4MHz / 16QAM



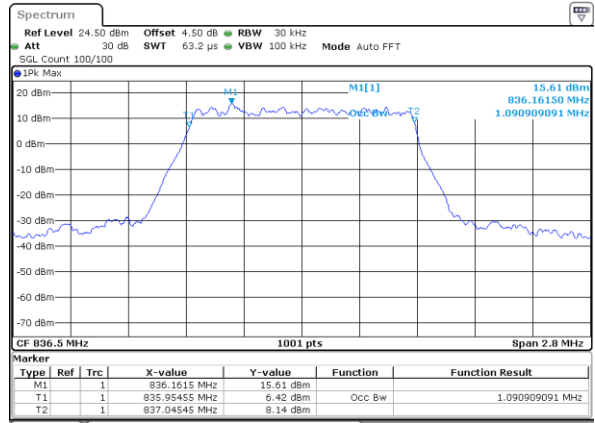
Date: 5 FEB 2020 16:58:26

Middle Channel / 1.4MHz / QPSK



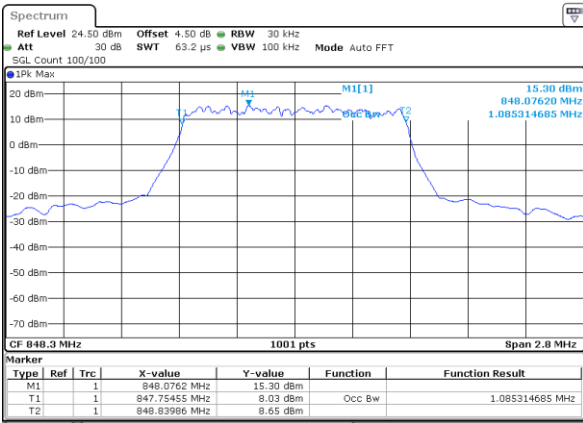
Date: 5 FEB 2020 17:11:20

Middle Channel / 1.4MHz / 16QAM



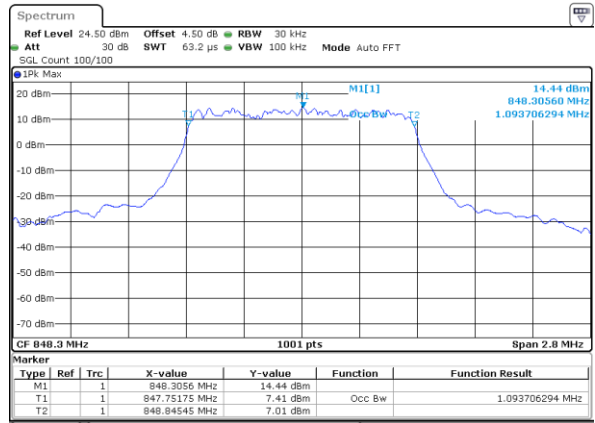
Date: 5 FEB 2020 17:11:30

Highest Channel / 1.4MHz / QPSK



Date: 5 FEB 2020 17:13:49

Highest Channel / 1.4MHz / 16QAM

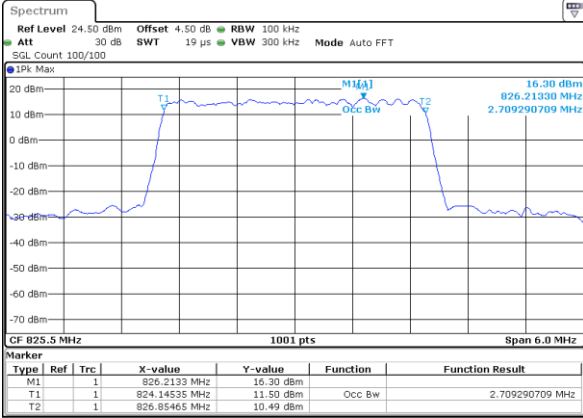


Date: 5 FEB 2020 17:13:59



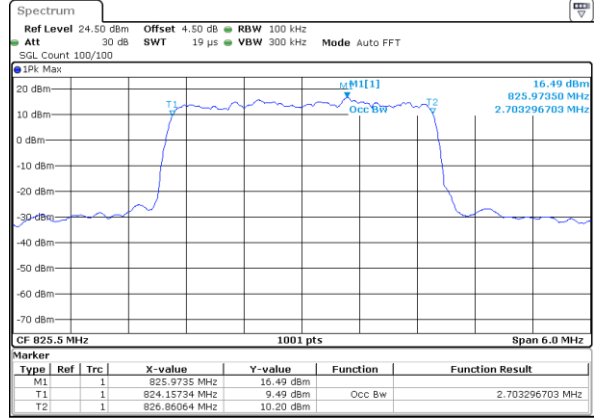
LTE Band 5

Lowest Channel / 3MHz / QPSK



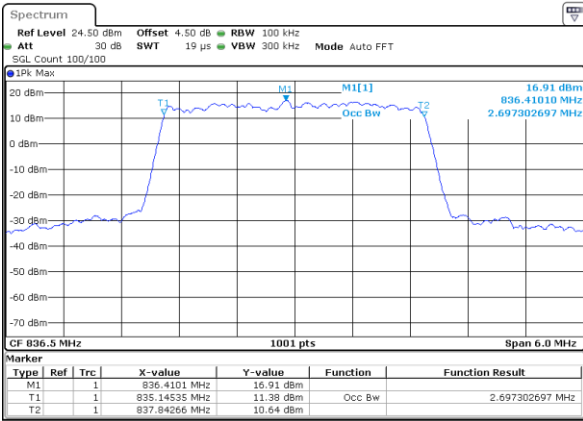
Date: 5 FEB 2020 17:22:47

Lowest Channel / 3MHz / 16QAM



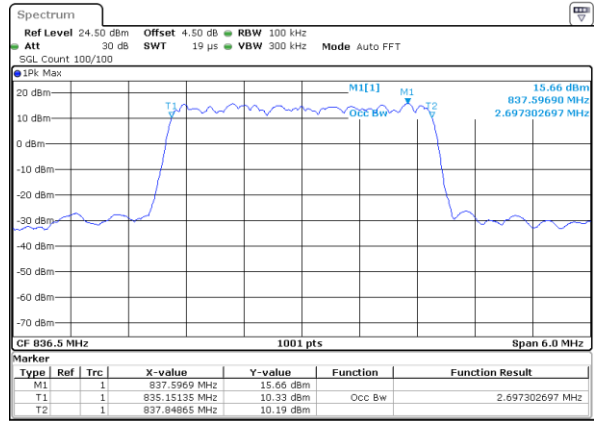
Date: 5 FEB 2020 17:22:57

Middle Channel / 3MHz / QPSK



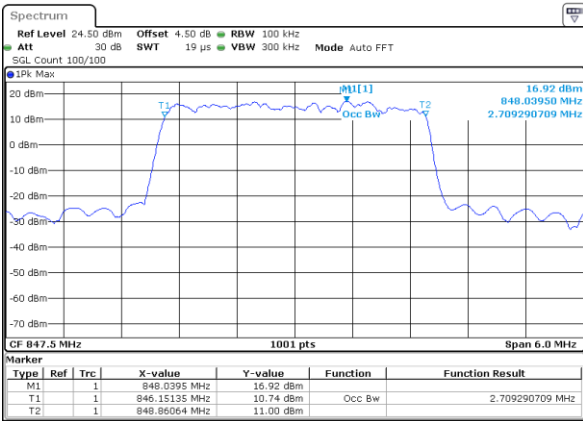
Date: 5 FEB 2020 17:31:46

Middle Channel / 3MHz / 16QAM



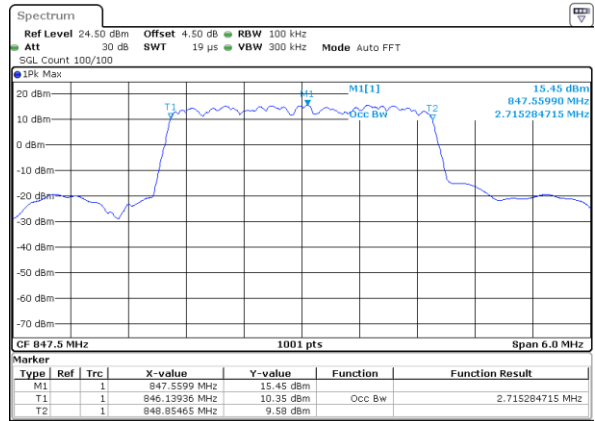
Date: 5 FEB 2020 17:31:56

Highest Channel / 3MHz / QPSK



Date: 5 FEB 2020 17:34:15

Highest Channel / 3MHz / 16QAM

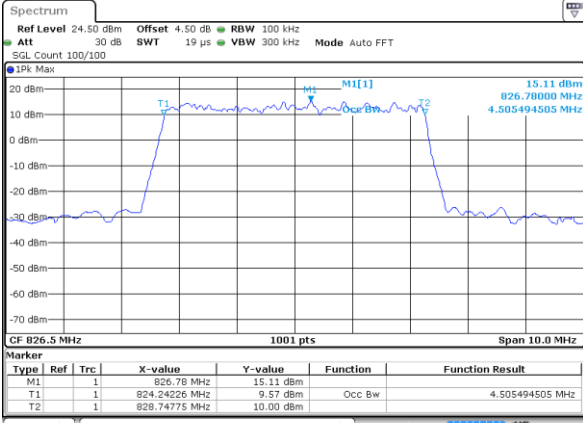


Date: 5 FEB 2020 17:34:25



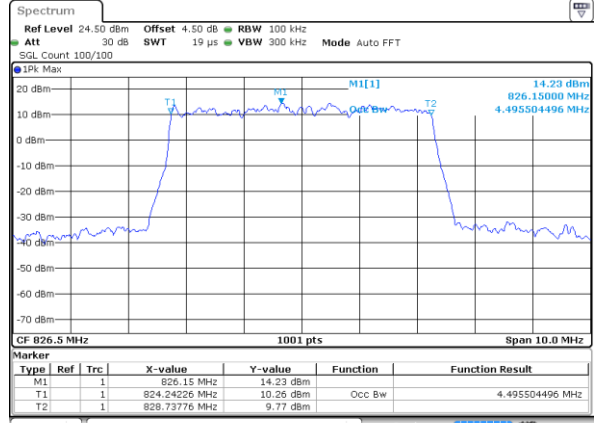
LTE Band 5

Lowest Channel / 5MHz / QPSK



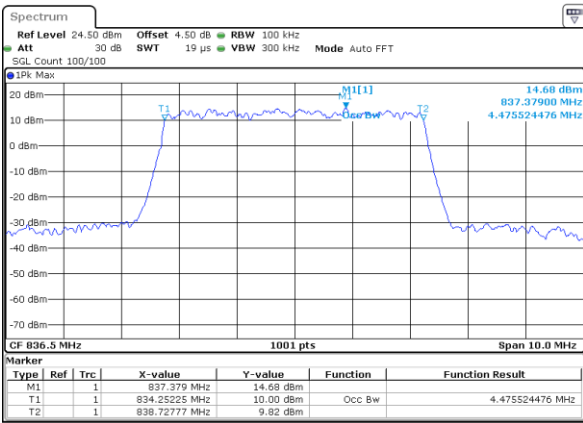
Date: 5 FEB 2020 17:43:14

Lowest Channel / 5MHz / 16QAM



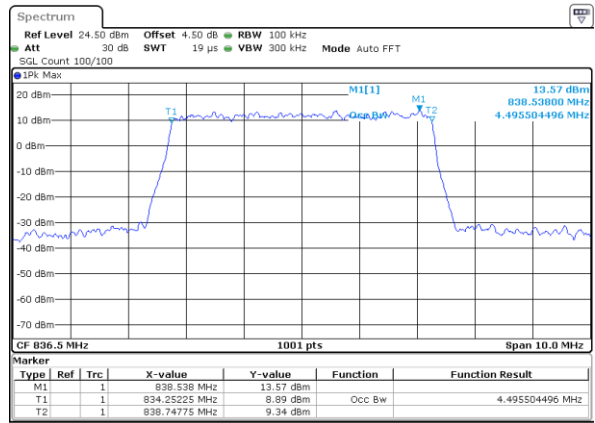
Date: 5 FEB 2020 17:43:24

Middle Channel / 5MHz / QPSK



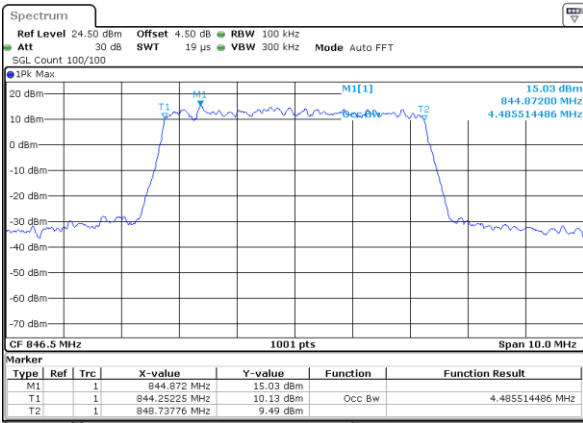
Date: 5 FEB 2020 17:52:12

Middle Channel / 5MHz / 16QAM



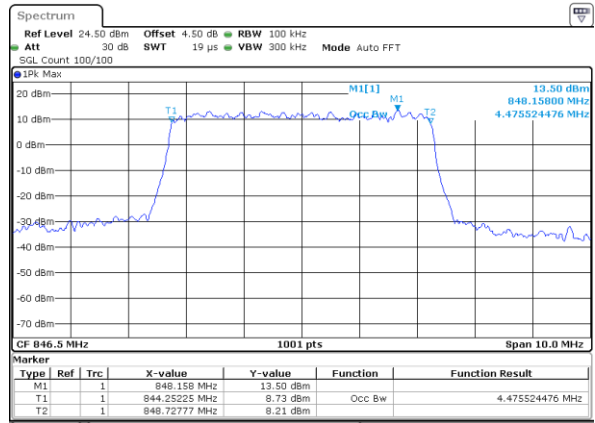
Date: 5 FEB 2020 17:52:22

Highest Channel / 5MHz / QPSK



Date: 5 FEB 2020 17:54:41

Highest Channel / 5MHz / 16QAM



Date: 5 FEB 2020 17:54:51