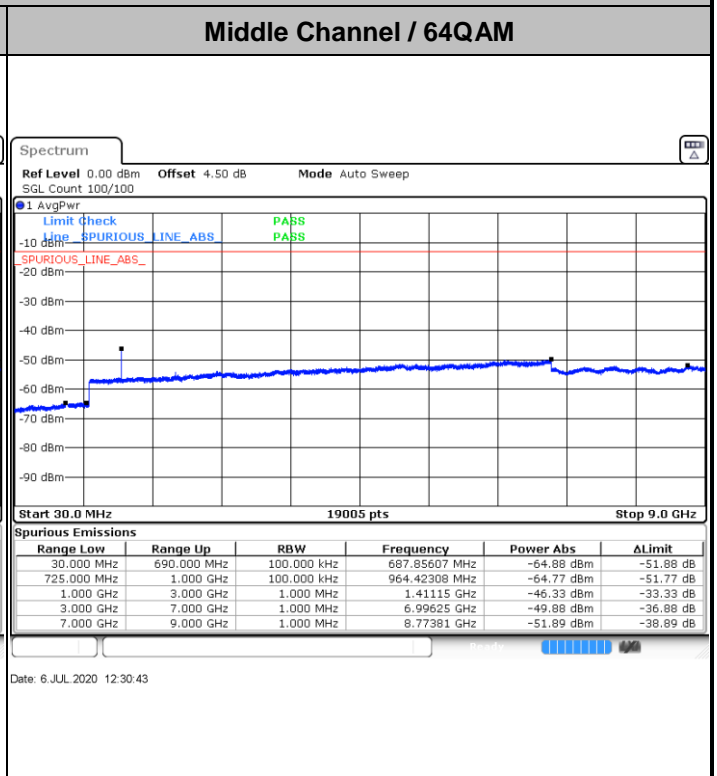
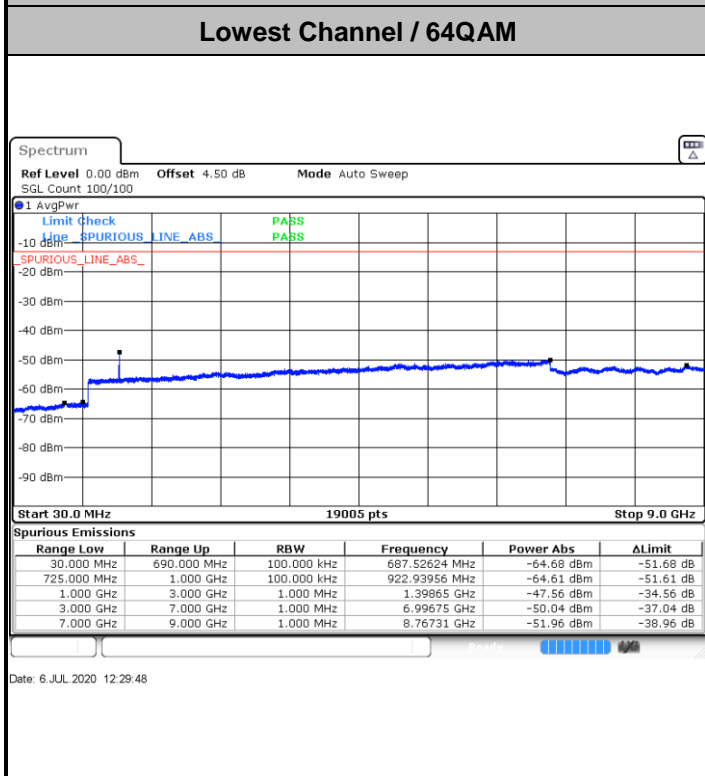
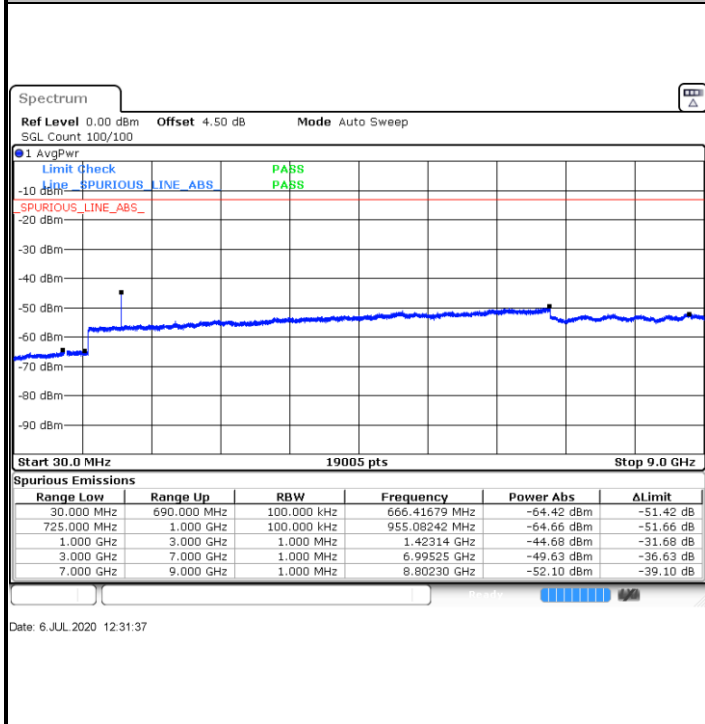




LTE Band 12 / 5MHz



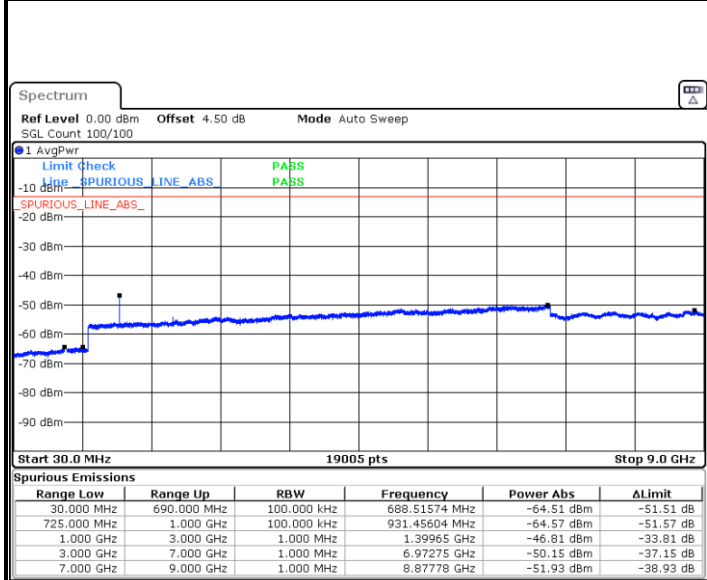
Highest Channel / 64QAM





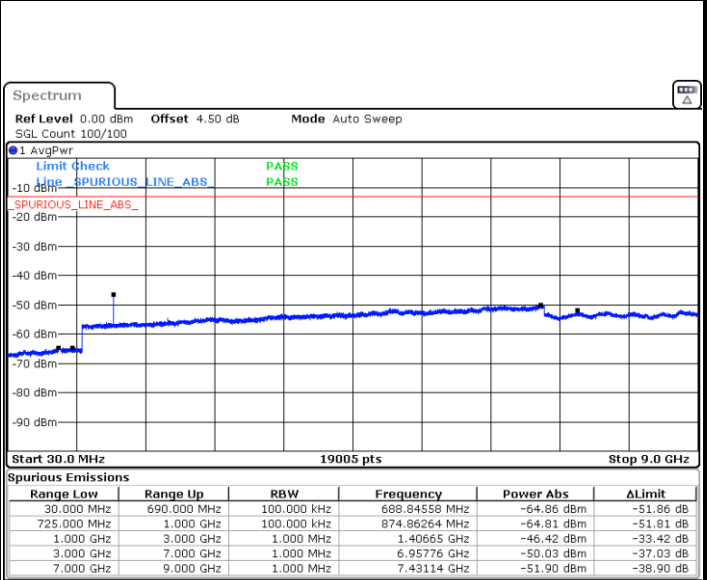
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



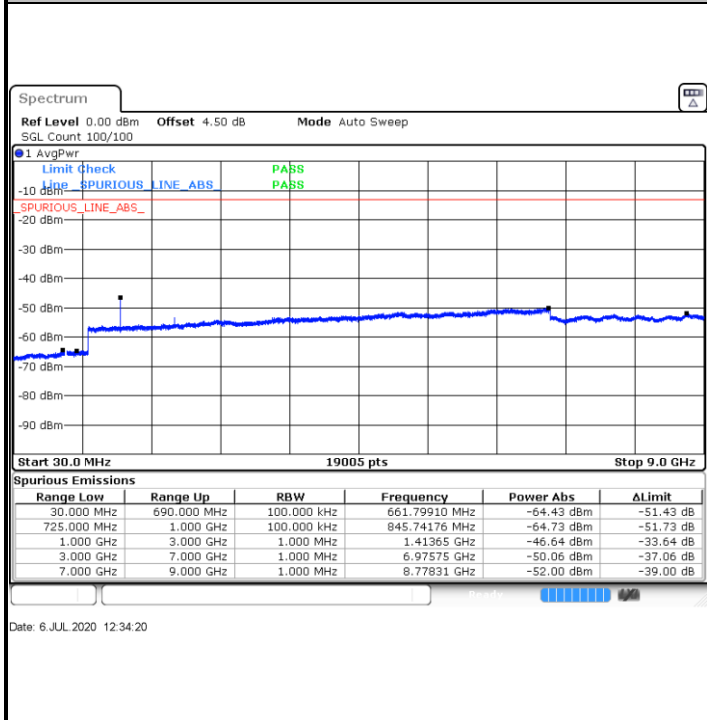
Date: 6 JUL 2020 12:32:31

Middle Channel / 64QAM



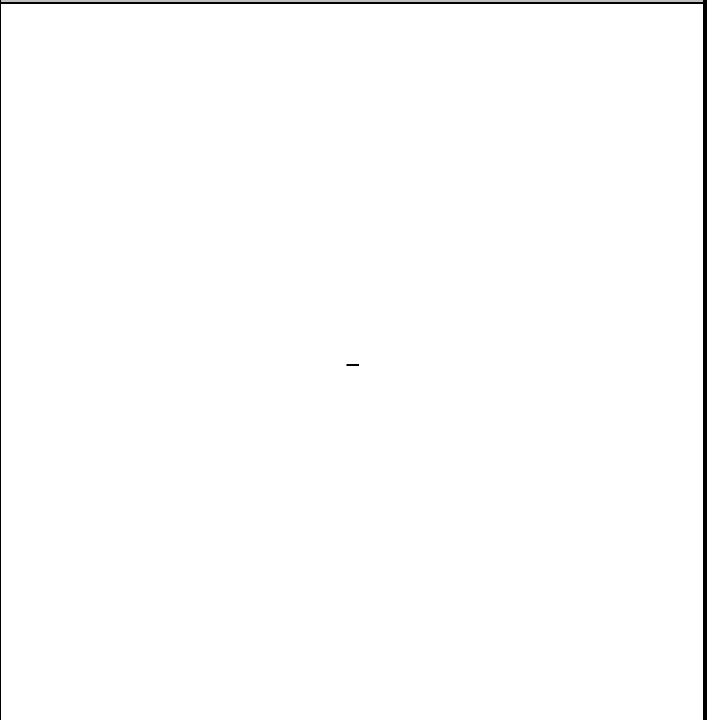
Date: 6 JUL 2020 12:33:25

Highest Channel / 64QAM



Date: 6 JUL 2020 12:34:20

-





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0049	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0021	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

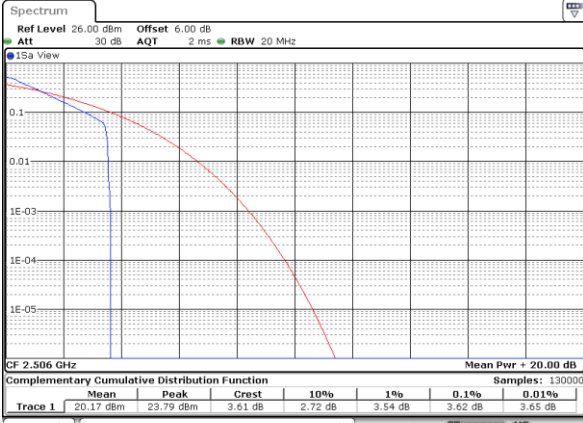
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	5.65	5.86	5.86	PASS
Middle CH	4.49	6.17	6.12	6.12	
Highest CH	4.29	6.84	6.87	6.78	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.43	6.43	-	-	PASS
Middle CH	6.93	6.52	-	-	
Highest CH	6.75	6.78	-	-	



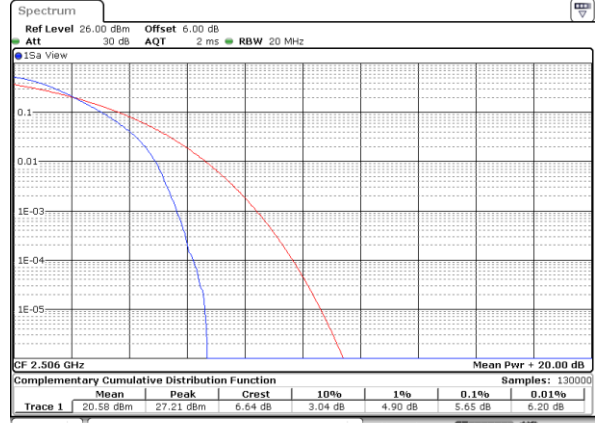
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



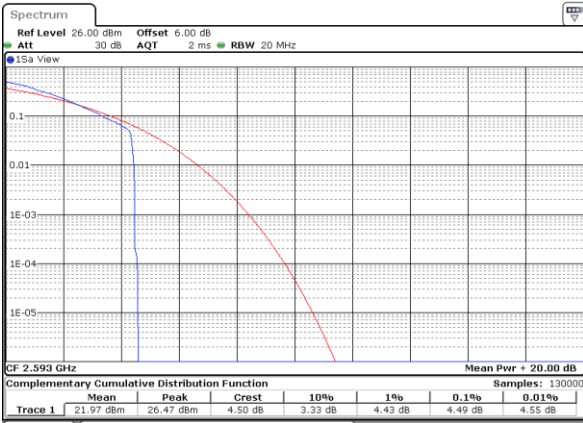
Date: 7 JUL 2020 18:28:21

Lowest Channel / Full RB



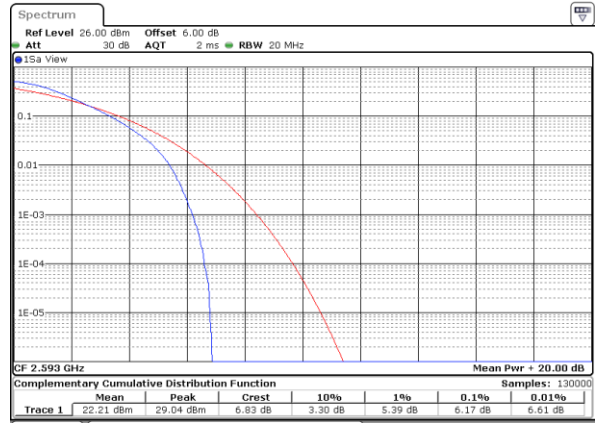
Date: 7 JUL 2020 18:24:33

Middle Channel / 1RB



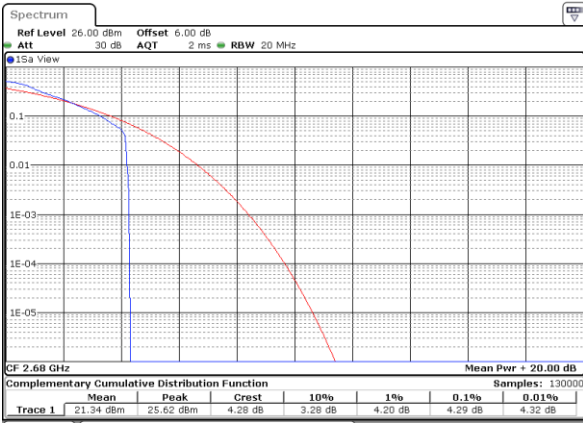
Date: 7 JUL 2020 18:29:02

Middle Channel / Full RB



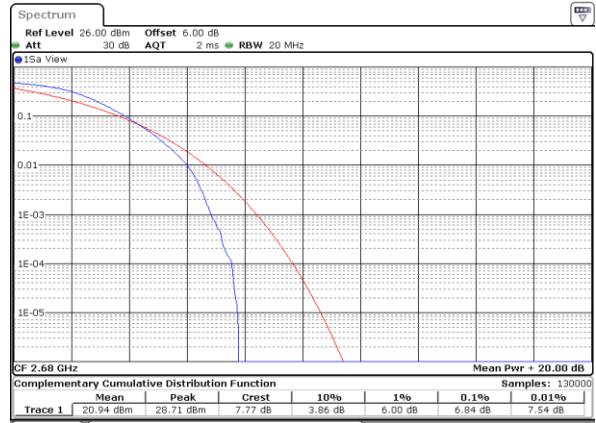
Date: 7 JUL 2020 18:25:49

Highest Channel / 1RB



Date: 7 JUL 2020 18:29:52

Highest Channel / Full RB

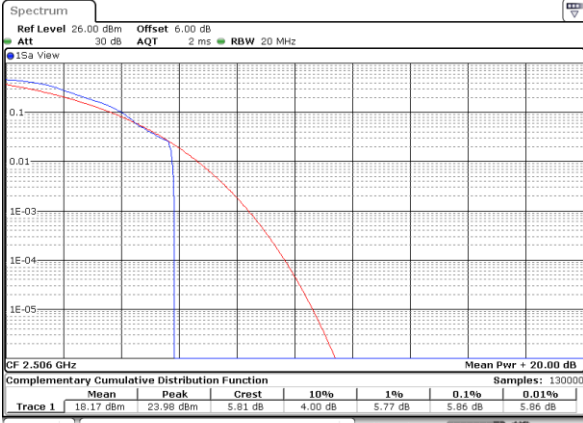


Date: 7 JUL 2020 18:27:05



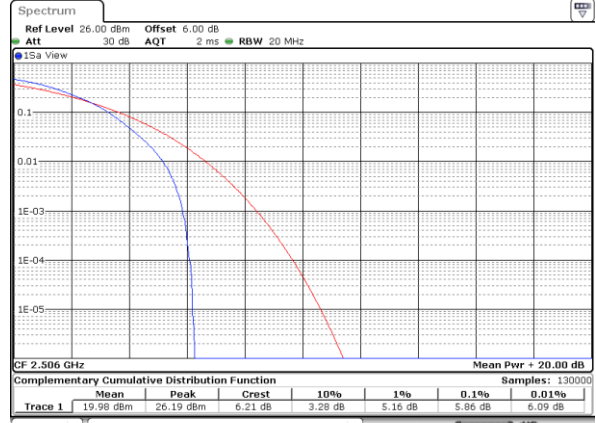
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 7 JUL 2020 18:28:31

Lowest Channel / Full RB



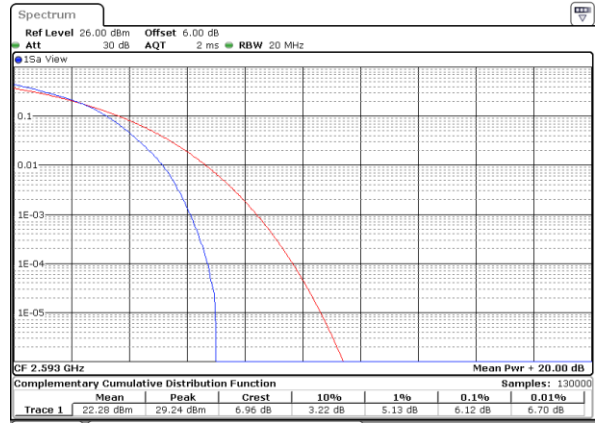
Date: 7 JUL 2020 18:24:46

Middle Channel / 1RB



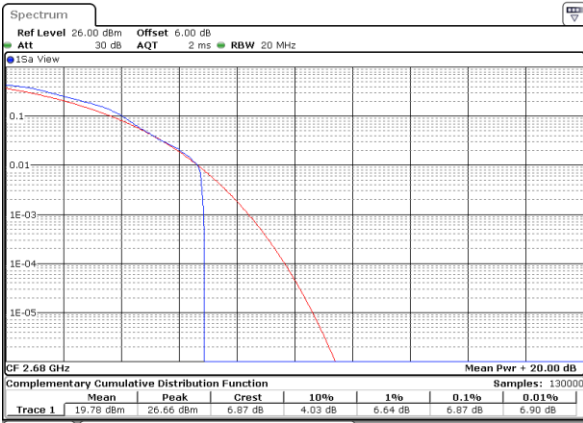
Date: 7 JUL 2020 18:29:23

Middle Channel / Full RB



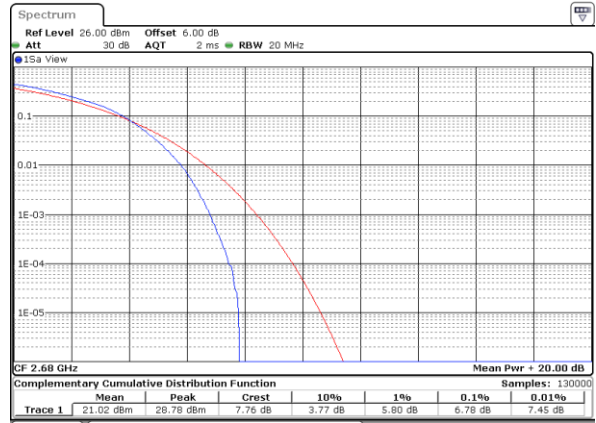
Date: 7 JUL 2020 18:26:20

Highest Channel / 1RB



Date: 7 JUL 2020 18:30:06

Highest Channel / Full RB

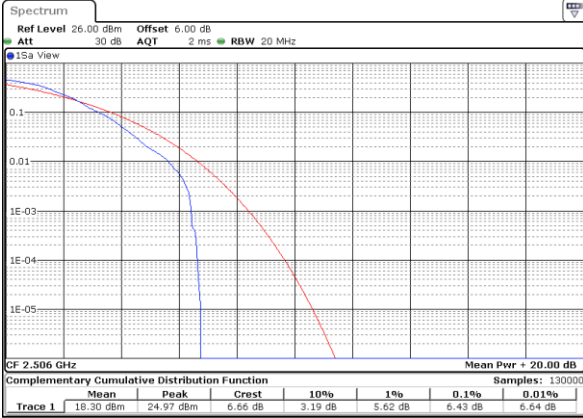


Date: 7 JUL 2020 18:27:34



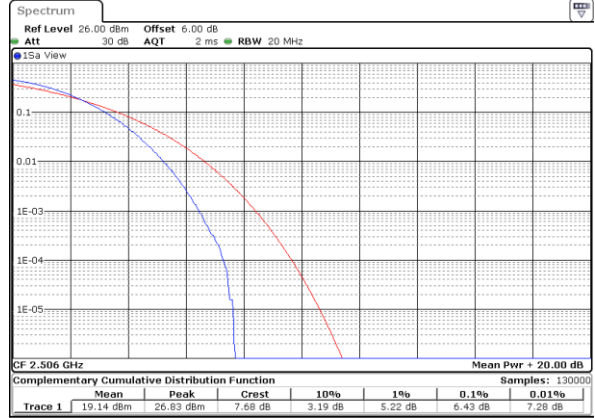
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



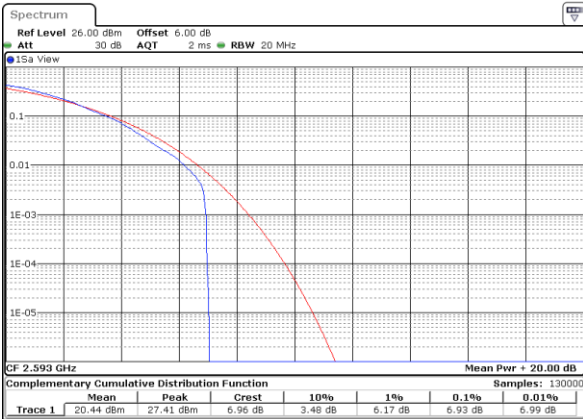
Date: 7 JUL 2020 18:28:52

Lowest Channel / Full RB



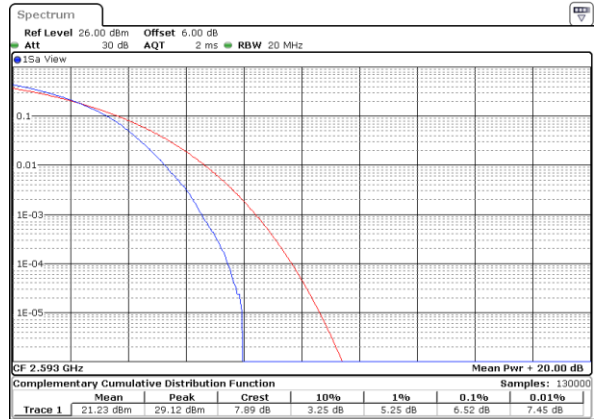
Date: 7 JUL 2020 18:25:37

Middle Channel / 1RB



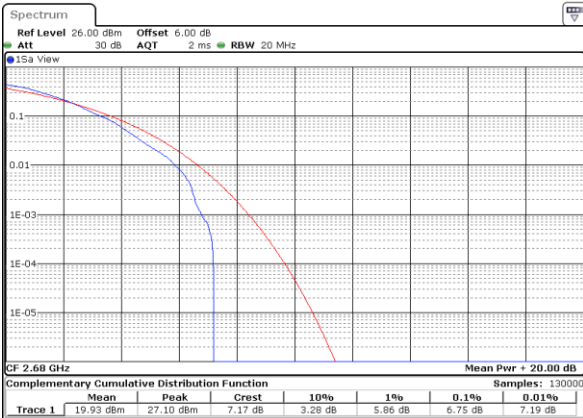
Date: 7 JUL 2020 18:29:34

Middle Channel / Full RB



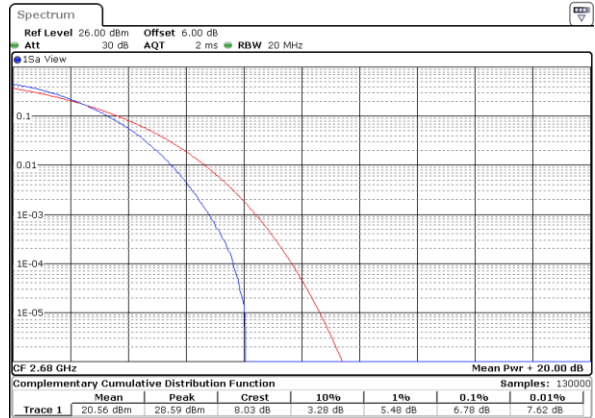
Date: 7 JUL 2020 18:26:49

Highest Channel / 1RB



Date: 7 JUL 2020 18:30:19

Highest Channel / Full RB



Date: 7 JUL 2020 18:28:07



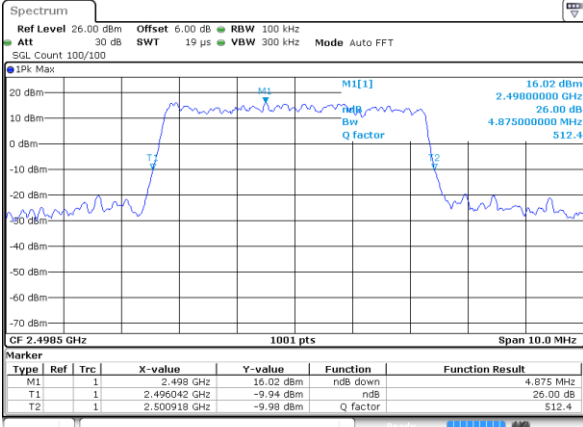
26dB Bandwidth

BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.88	4.89	9.81	9.83	14.18	14.33	19.94	20.26
Middle CH	4.77	4.86	9.69	9.73	14.12	14.18	20.22	20.26
Highest CH	4.91	4.80	9.65	9.81	14.12	14.36	19.98	20.10
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.88	-	9.71	-	14.18	-	20.14	-
Middle CH	4.99	-	9.81	-	14.24	-	19.98	-
Highest CH	4.86	-	9.71	-	14.48	-	20.10	-



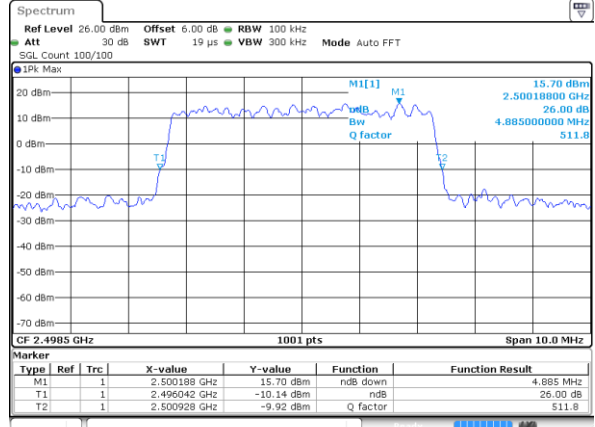
LTE Band 41

Lowest Channel / 5MHz / QPSK



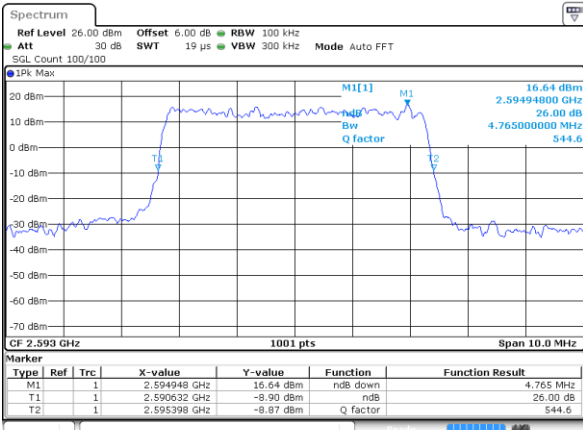
Date: 7 JUL 2020 18:11:17

Lowest Channel / 5MHz / 16QAM



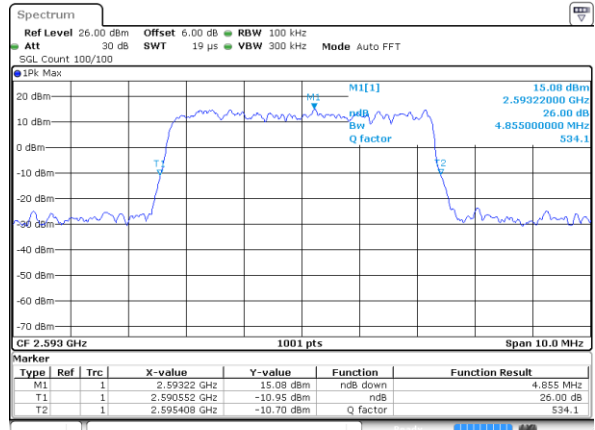
Date: 7 JUL 2020 18:11:37

Middle Channel / 5MHz / QPSK



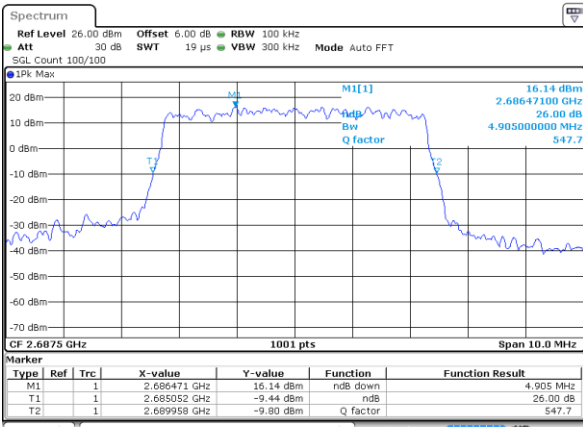
Date: 7 JUL 2020 18:12:17

Middle Channel / 5MHz / 16QAM



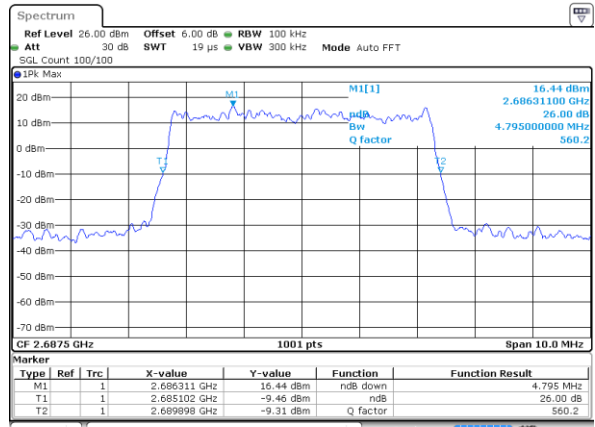
Date: 7 JUL 2020 18:12:36

Highest Channel / 5MHz / QPSK



Date: 7 JUL 2020 18:13:16

Highest Channel / 5MHz / 16QAM

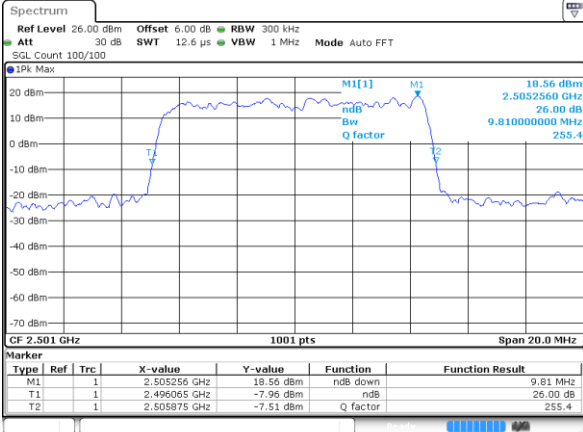


Date: 7 JUL 2020 18:13:36



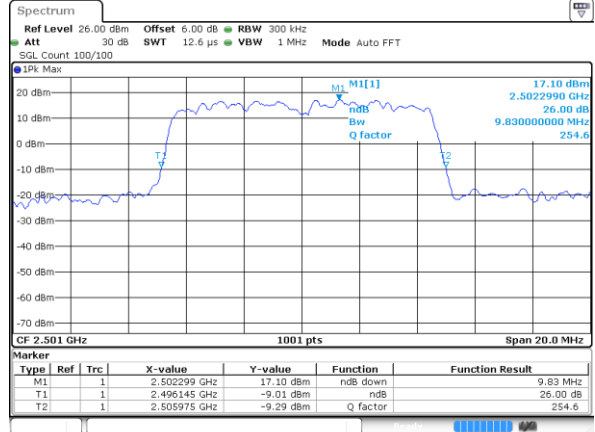
LTE Band 41

Lowest Channel / 10MHz / QPSK



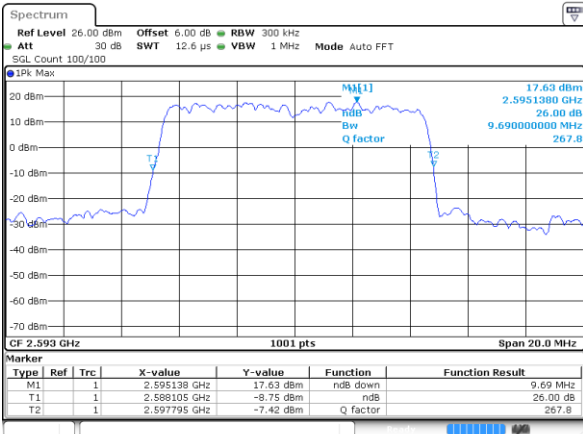
Date: 7 JUL 2020 18:14:16

Lowest Channel / 10MHz / 16QAM



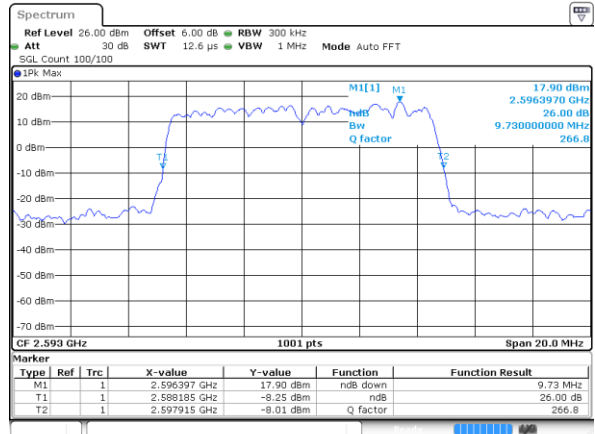
Date: 7 JUL 2020 18:15:24

Middle Channel / 10MHz / QPSK



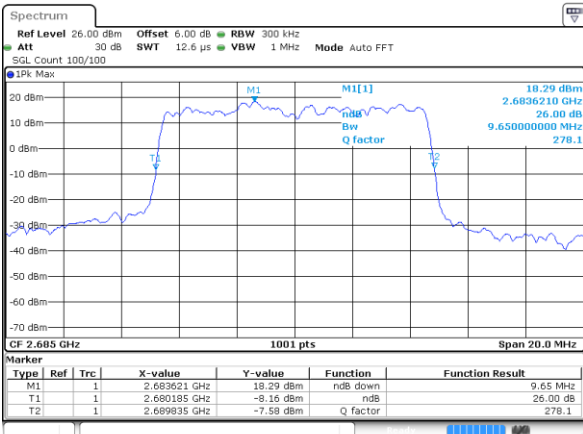
Date: 7 JUL 2020 18:16:04

Middle Channel / 10MHz / 16QAM



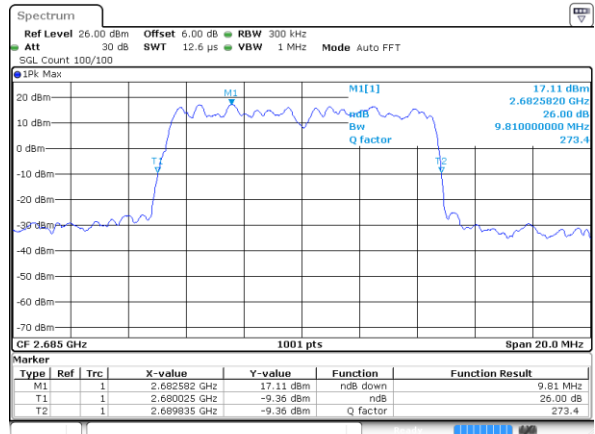
Date: 7 JUL 2020 18:16:23

Highest Channel / 10MHz / QPSK



Date: 7 JUL 2020 18:17:03

Highest Channel / 10MHz / 16QAM

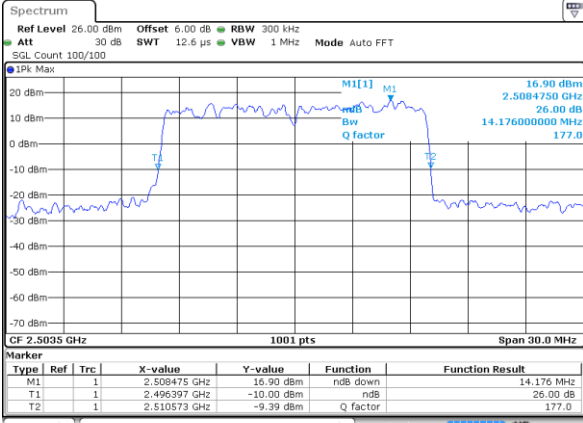


Date: 7 JUL 2020 18:17:23



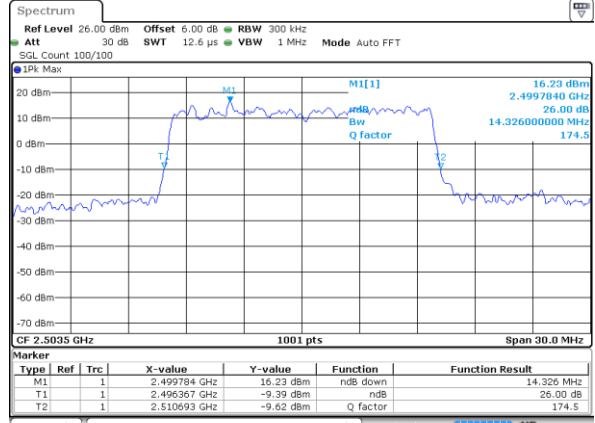
LTE Band 41

Lowest Channel / 15MHz / QPSK



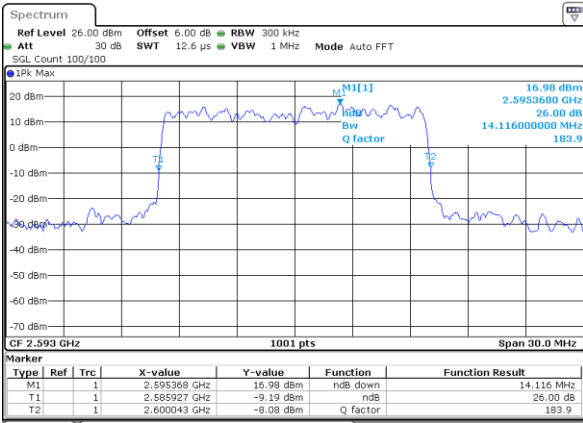
Date: 7 JUL 2020 18:18:03

Lowest Channel / 15MHz / 16QAM



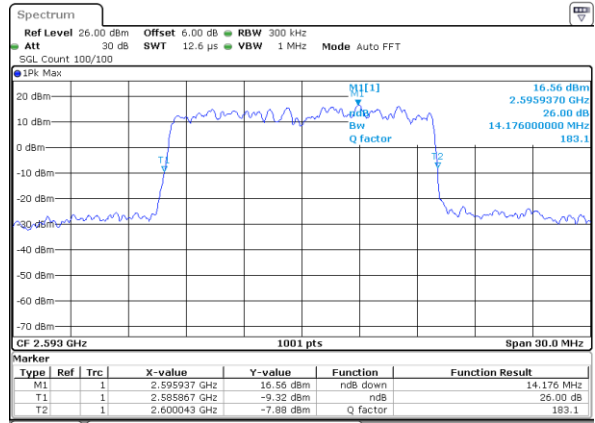
Date: 7 JUL 2020 18:18:23

Middle Channel / 15MHz / QPSK



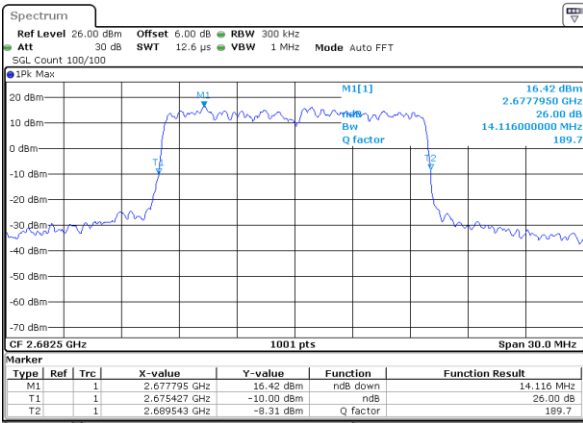
Date: 7 JUL 2020 18:19:02

Middle Channel / 15MHz / 16QAM



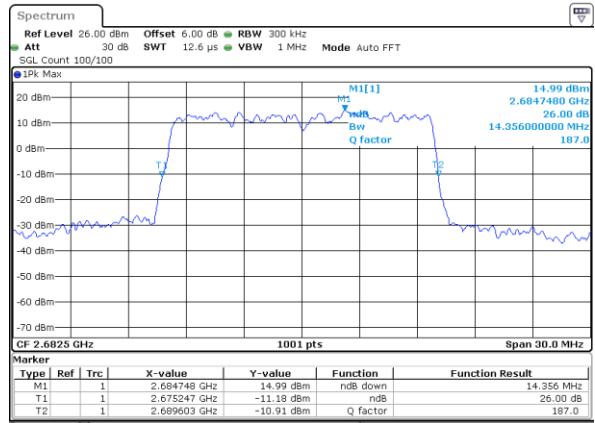
Date: 7 JUL 2020 18:19:22

Highest Channel / 15MHz / QPSK



Date: 7 JUL 2020 18:20:02

Highest Channel / 15MHz / 16QAM

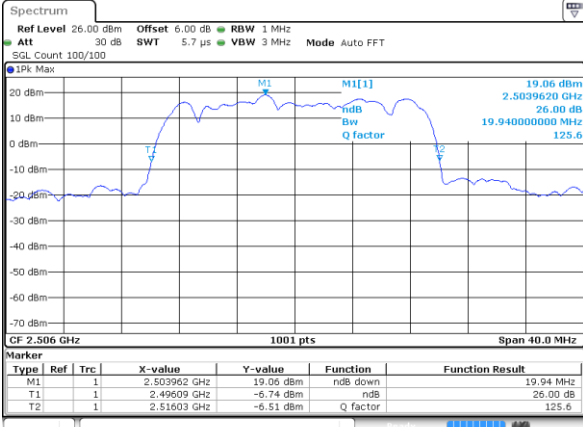


Date: 7 JUL 2020 18:20:22



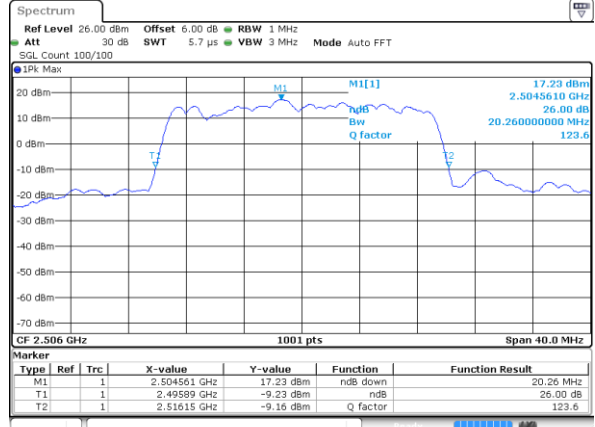
LTE Band 41

Lowest Channel / 20MHz / QPSK



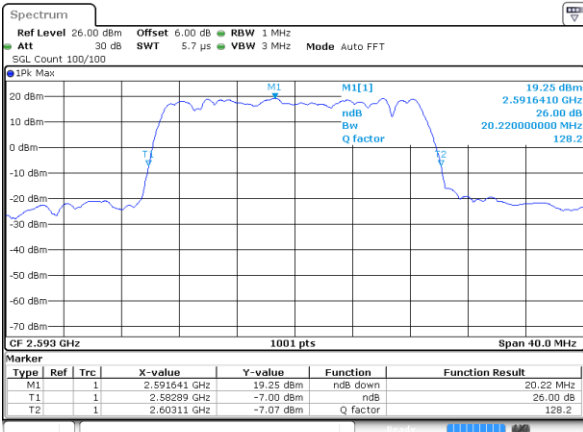
Date: 7 JUL 2020 18:21:26

Lowest Channel / 20MHz / 16QAM



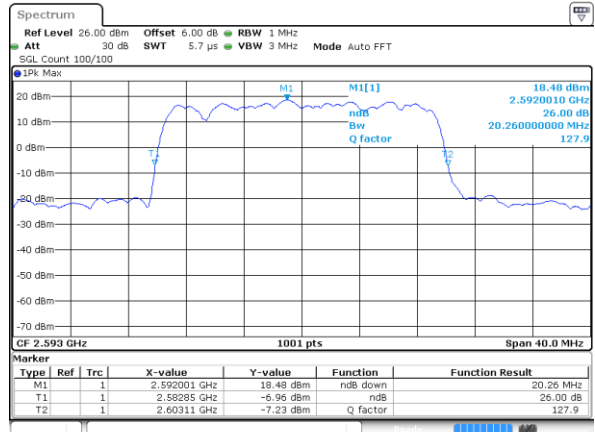
Date: 7 JUL 2020 18:21:46

Middle Channel / 20MHz / QPSK



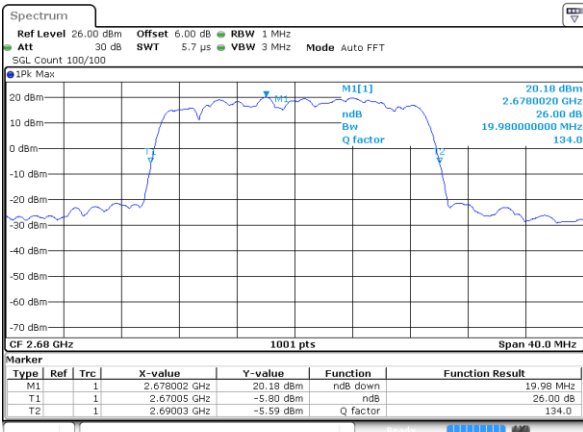
Date: 7 JUL 2020 18:22:26

Middle Channel / 20MHz / 16QAM



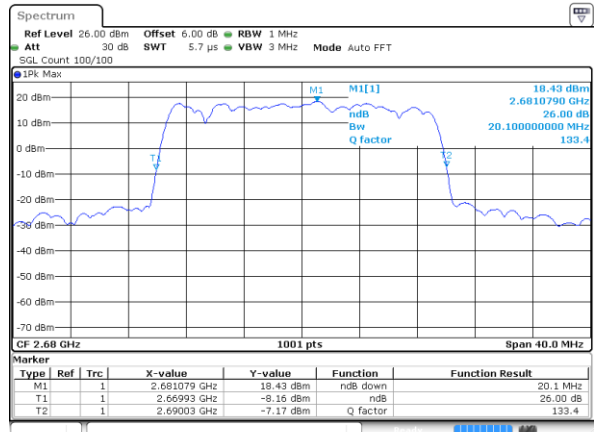
Date: 7 JUL 2020 18:22:45

Highest Channel / 20MHz / QPSK



Date: 7 JUL 2020 18:23:25

Highest Channel / 20MHz / 16QAM

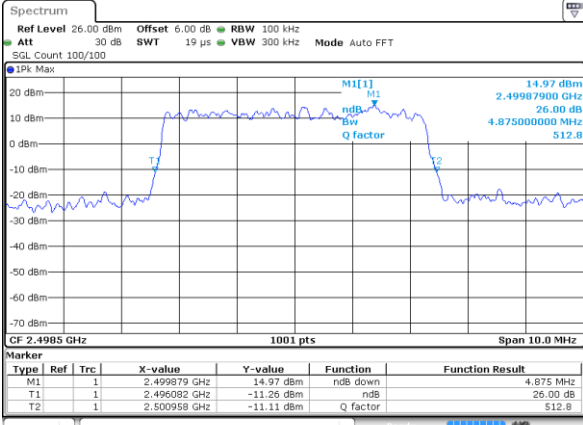


Date: 7 JUL 2020 18:23:45



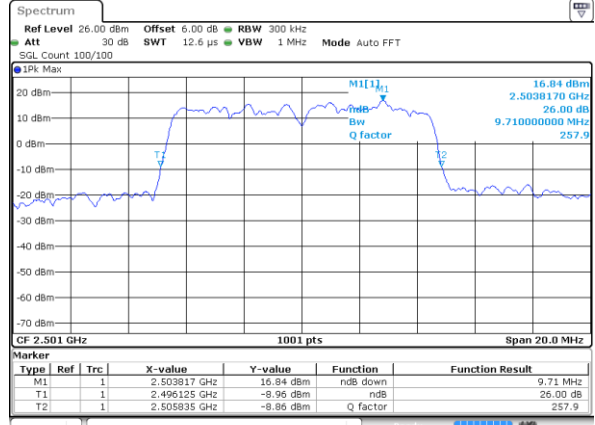
LTE Band 41

Lowest Channel / 5MHz / 64QAM



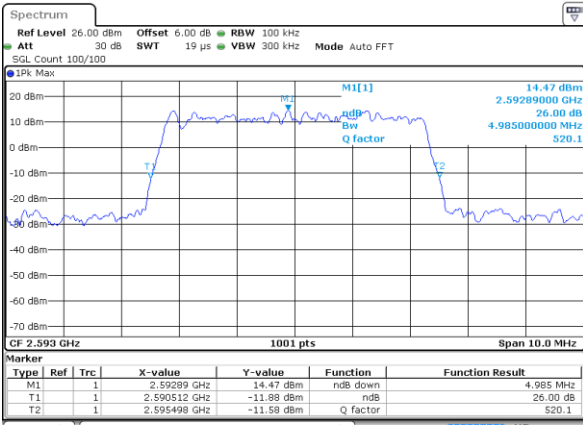
Date: 7 JUL 2020 18:11:57

Lowest Channel / 10MHz / 64QAM



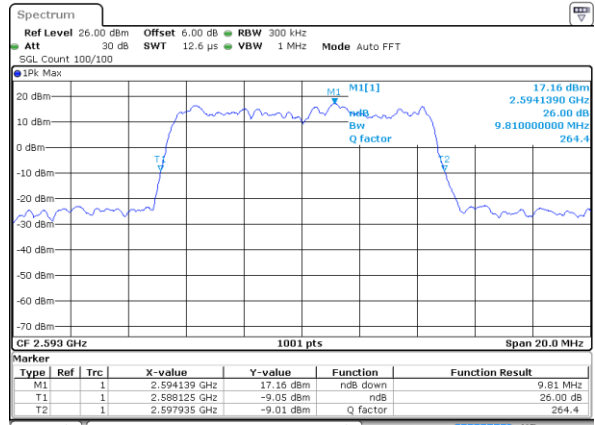
Date: 7 JUL 2020 18:15:44

Middle Channel / 5MHz / 64QAM



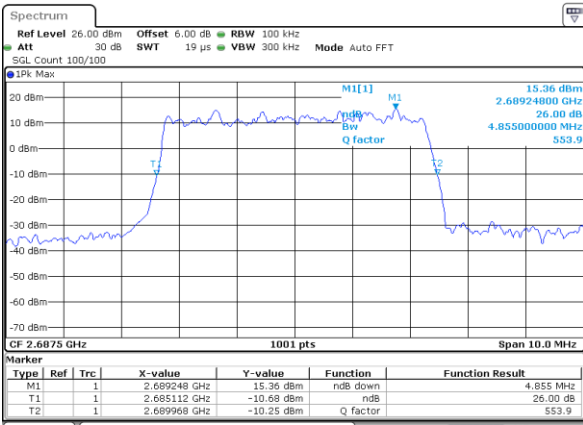
Date: 7 JUL 2020 18:12:56

Middle Channel / 10MHz / 64QAM



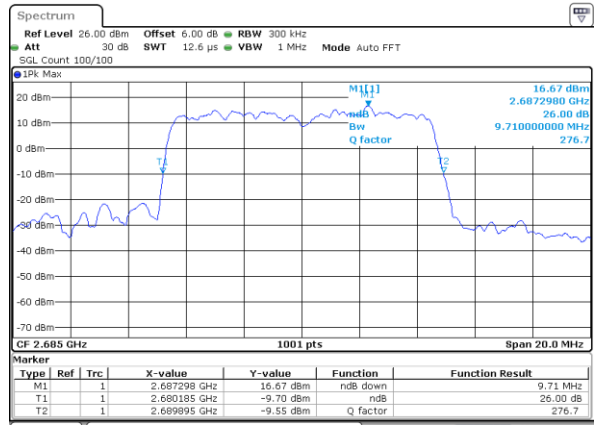
Date: 7 JUL 2020 18:16:43

Highest Channel / 5MHz / 64QAM



Date: 7 JUL 2020 18:13:56

Highest Channel / 10MHz / 64QAM

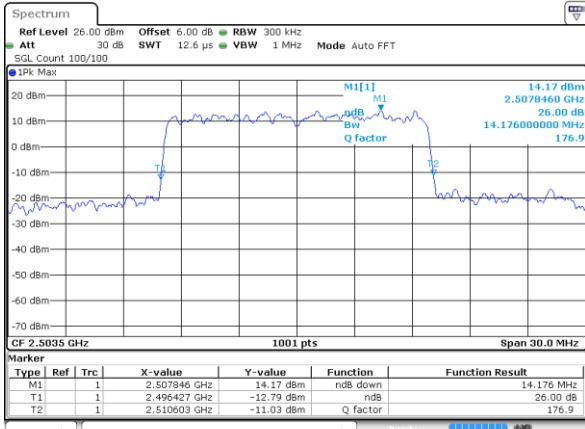


Date: 7 JUL 2020 18:17:43



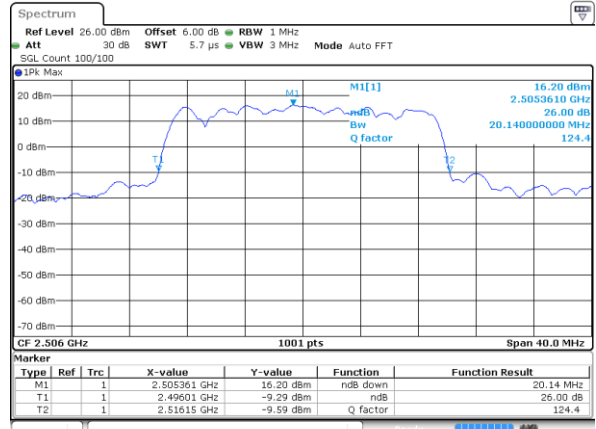
LTE Band 41

Lowest Channel / 15MHz / 64QAM



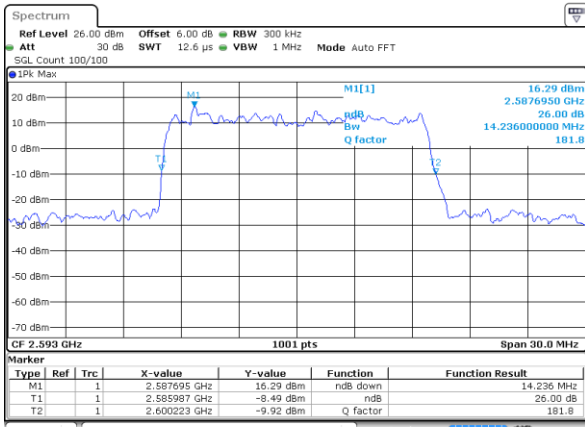
Date: 7 JUL 2020 18:18:42

Lowest Channel / 20MHz / 64QAM



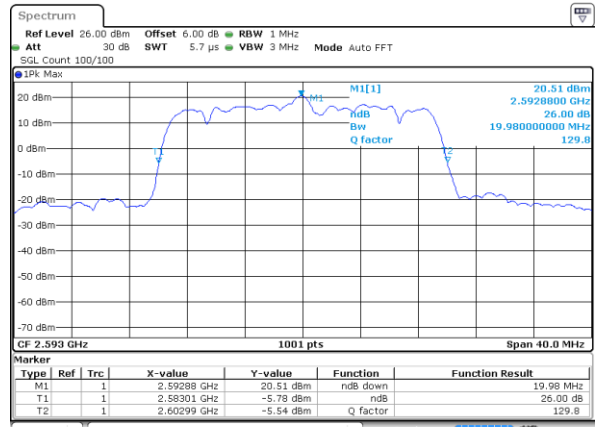
Date: 7 JUL 2020 18:22:06

Middle Channel / 15MHz / 64QAM



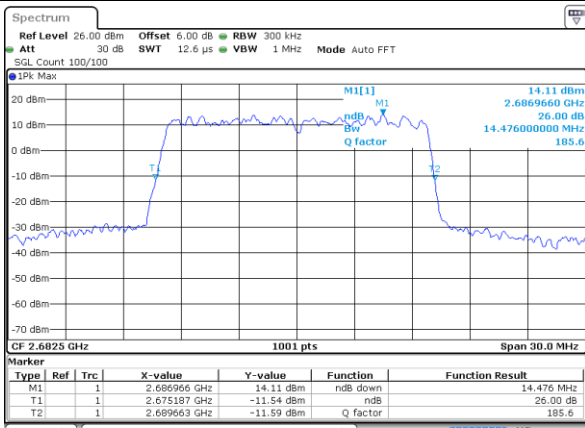
Date: 7 JUL 2020 18:19:42

Middle Channel / 20MHz / 64QAM



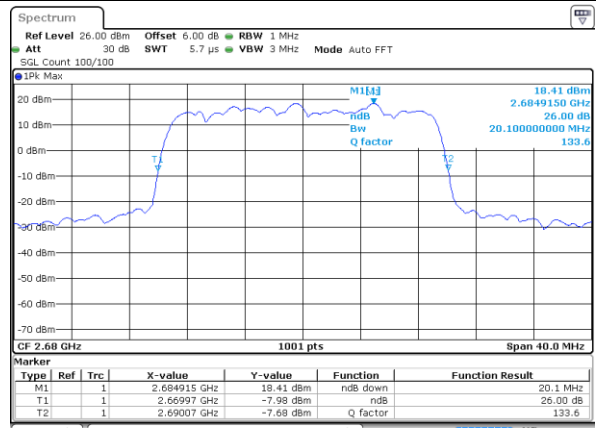
Date: 7 JUL 2020 18:23:05

Highest Channel / 15MHz / 64QAM



Date: 7 JUL 2020 18:21:06

Highest Channel / 20MHz / 64QAM



Date: 7 JUL 2020 18:24:05



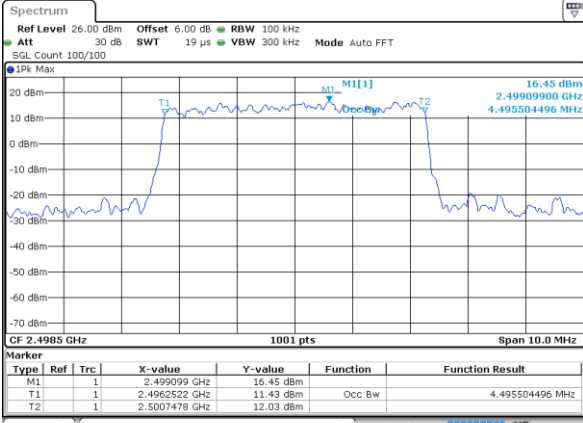
Occupied Bandwidth

BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.50	4.49	8.97	8.97	13.46	13.40	18.34	18.46
Middle CH	4.47	4.48	9.07	9.03	13.46	13.49	18.10	18.38
Highest CH	4.47	4.47	8.95	9.03	13.37	13.46	18.30	18.22
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.50	-	9.05	-	13.43	-	18.42	-
Middle CH	4.50	-	9.01	-	13.46	-	18.34	-
Highest CH	4.50	-	8.99	-	13.37	-	18.18	-



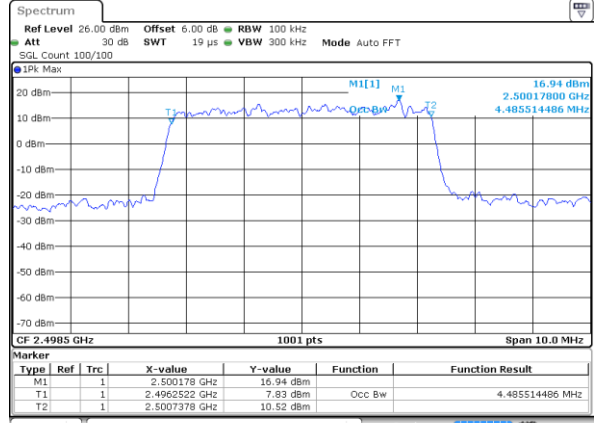
LTE Band 41

Lowest Channel / 5MHz / QPSK



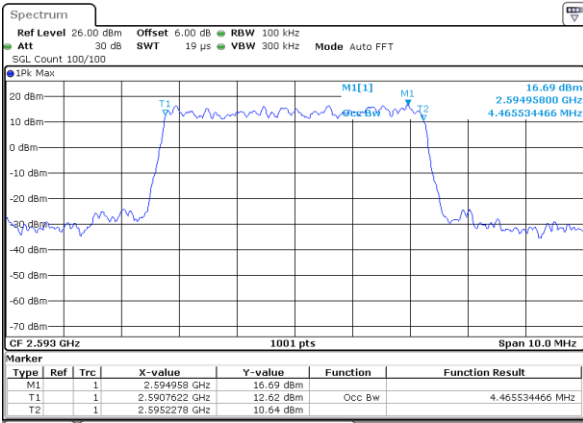
Date: 7 JUL 2020 18:11:07

Lowest Channel / 5MHz / 16QAM



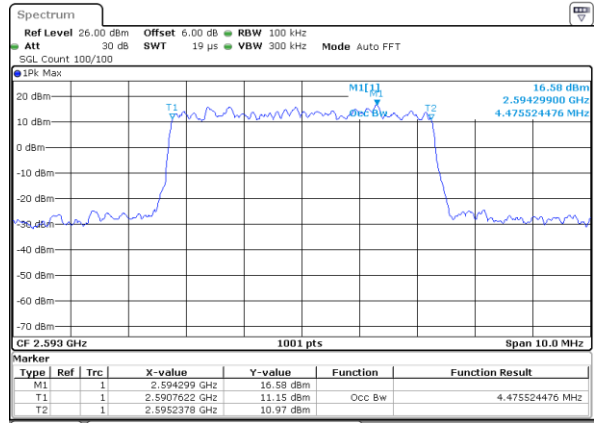
Date: 7 JUL 2020 18:11:27

Middle Channel / 5MHz / QPSK



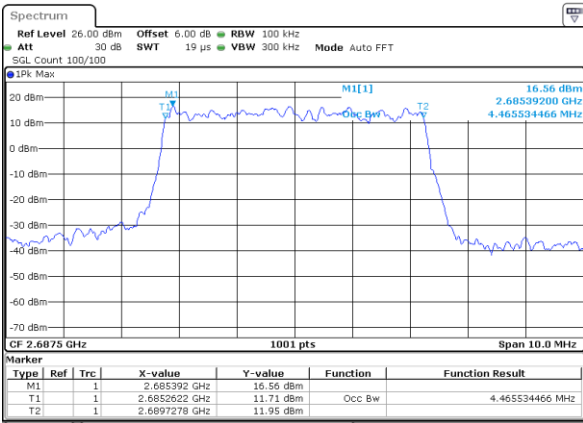
Date: 7 JUL 2020 18:12:07

Middle Channel / 5MHz / 16QAM



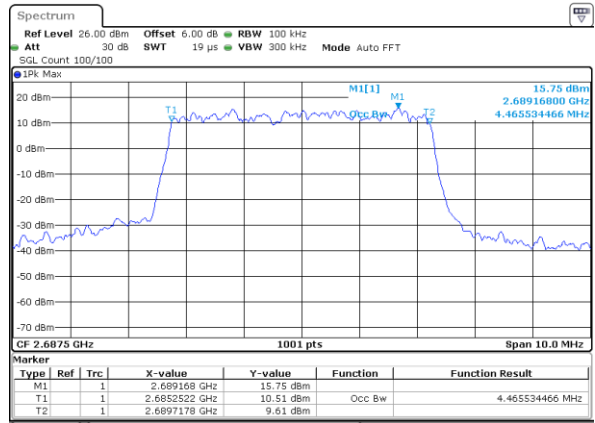
Date: 7 JUL 2020 18:12:27

Highest Channel / 5MHz / QPSK



Date: 7 JUL 2020 18:13:06

Highest Channel / 5MHz / 16QAM

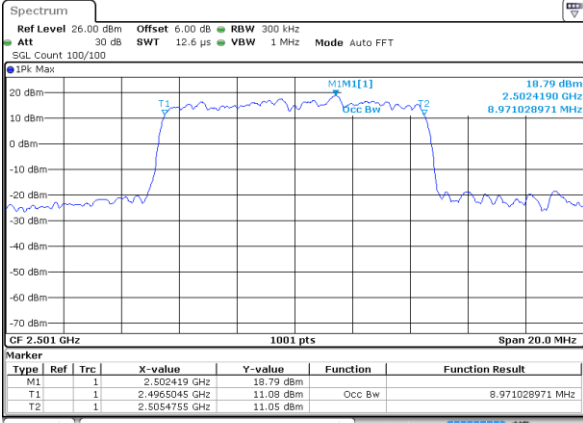


Date: 7 JUL 2020 18:13:26



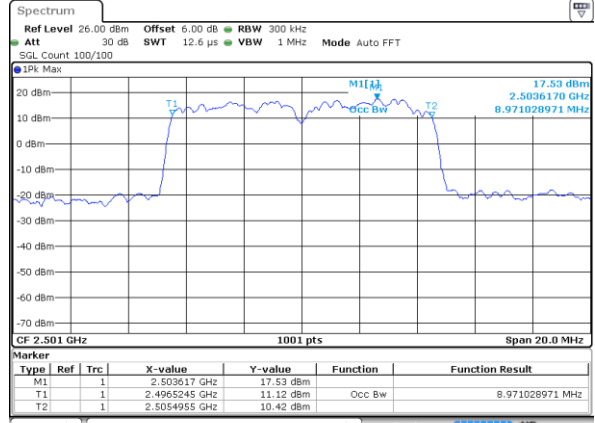
LTE Band 41

Lowest Channel / 10MHz / QPSK



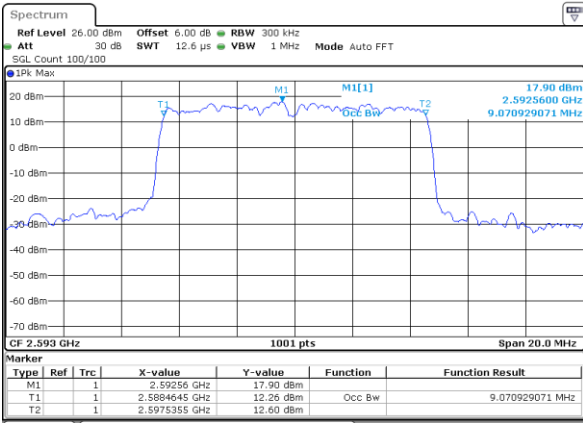
Date: 7 JUL 2020 18:14:06

Lowest Channel / 10MHz / 16QAM



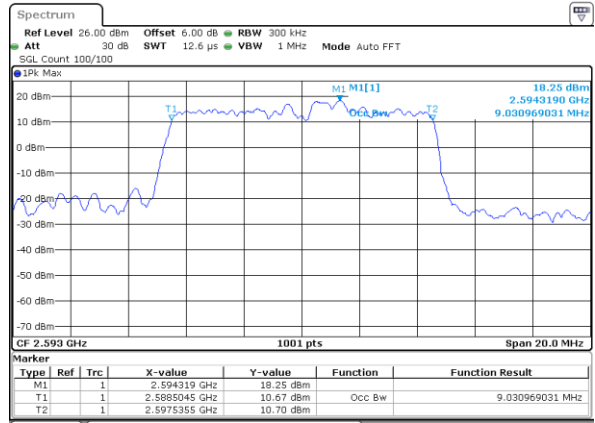
Date: 7 JUL 2020 18:15:14

Middle Channel / 10MHz / QPSK



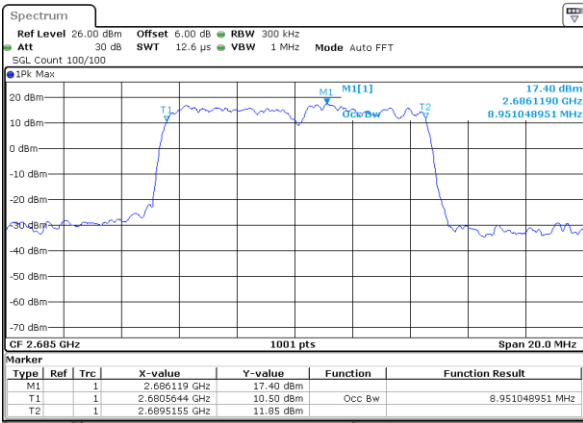
Date: 7 JUL 2020 18:15:54

Middle Channel / 10MHz / 16QAM



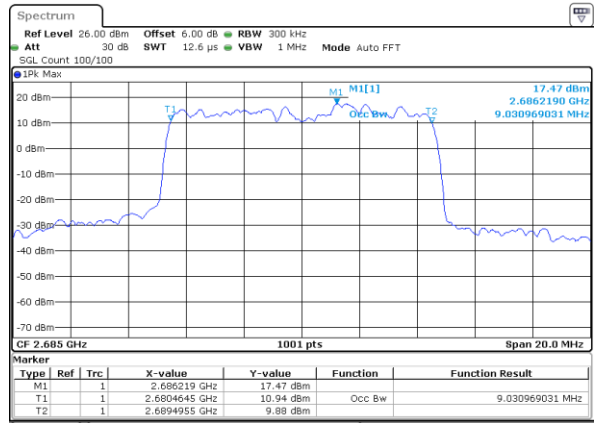
Date: 7 JUL 2020 18:16:13

Highest Channel / 10MHz / QPSK



Date: 7 JUL 2020 18:16:53

Highest Channel / 10MHz / 16QAM

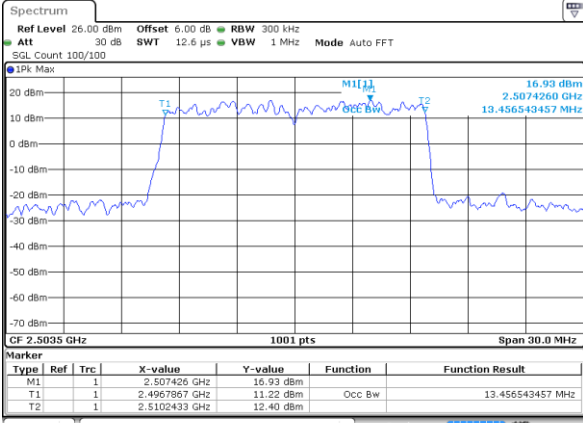


Date: 7 JUL 2020 18:17:13



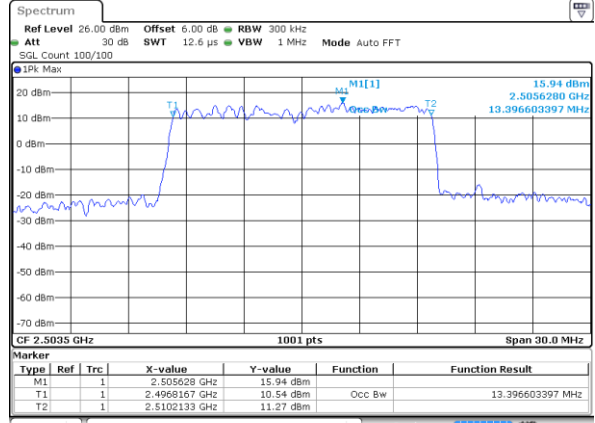
LTE Band 41

Lowest Channel / 15MHz / QPSK



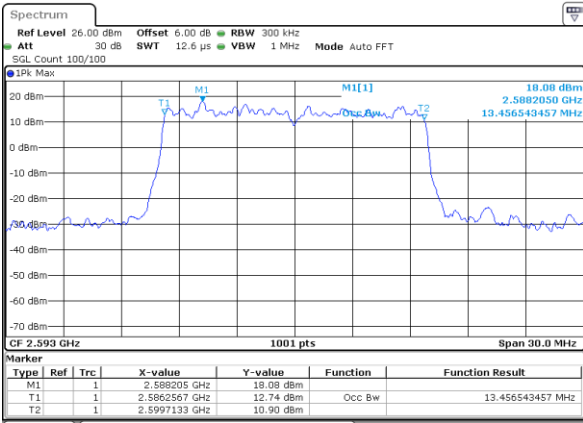
Date: 7 JUL 2020 18:17:53

Lowest Channel / 15MHz / 16QAM



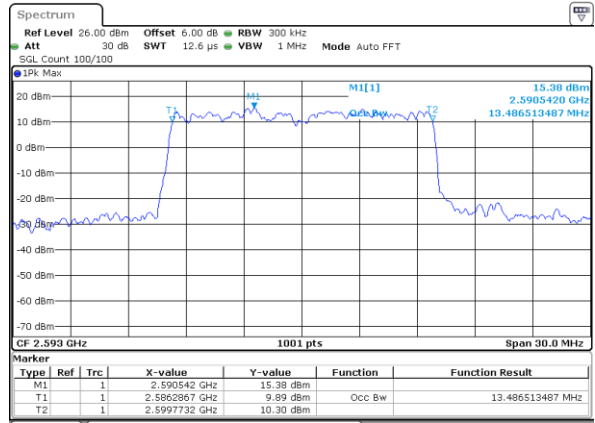
Date: 7 JUL 2020 18:18:13

Middle Channel / 15MHz / QPSK



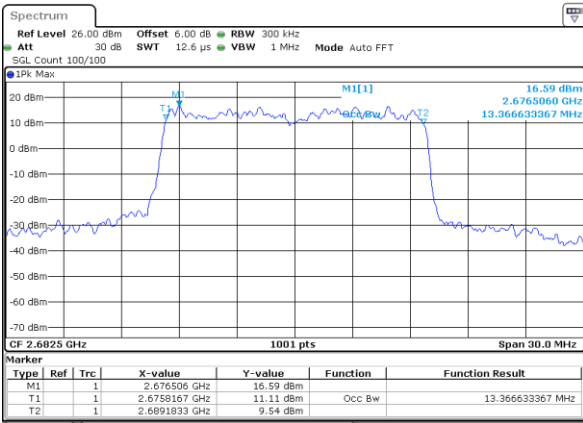
Date: 7 JUL 2020 18:18:52

Middle Channel / 15MHz / 16QAM



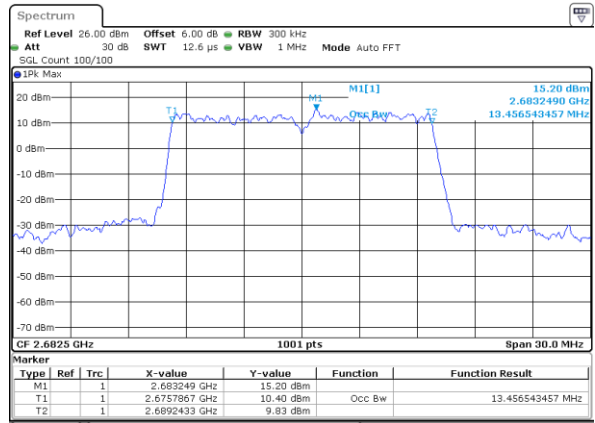
Date: 7 JUL 2020 18:19:12

Highest Channel / 15MHz / QPSK



Date: 7 JUL 2020 18:19:52

Highest Channel / 15MHz / 16QAM

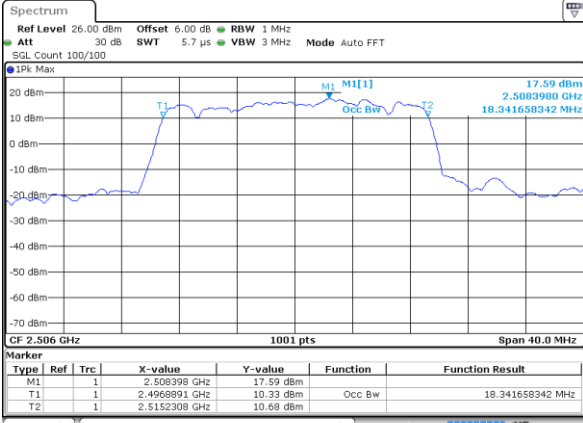


Date: 7 JUL 2020 18:20:12



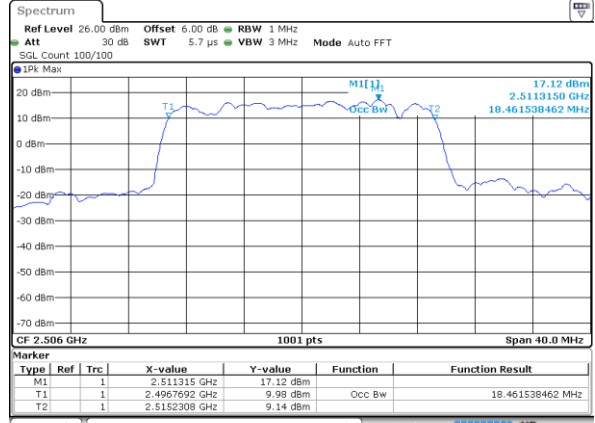
LTE Band 41

Lowest Channel / 20MHz / QPSK



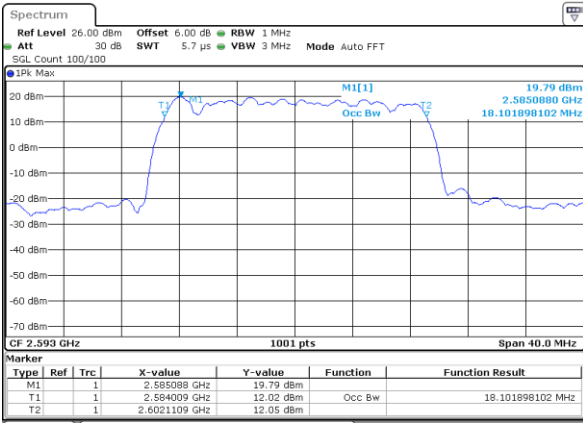
Date: 7 JUL 2020 18:21:16

Lowest Channel / 20MHz / 16QAM



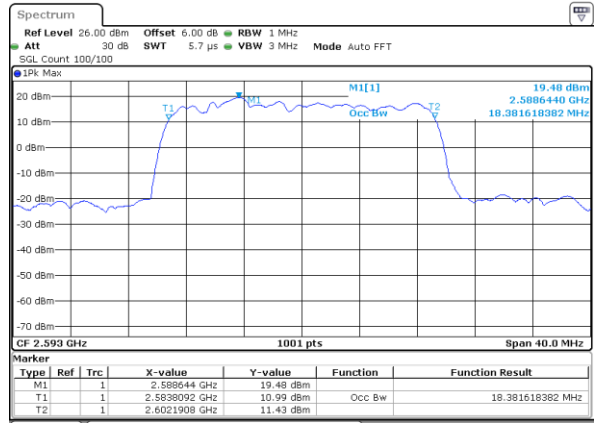
Date: 7 JUL 2020 18:21:36

Middle Channel / 20MHz / QPSK



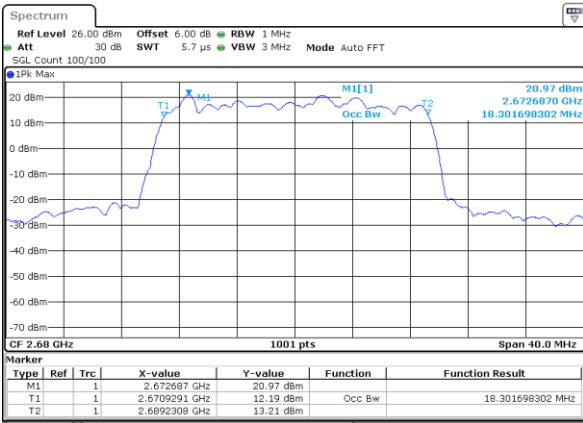
Date: 7 JUL 2020 18:22:16

Middle Channel / 20MHz / 16QAM



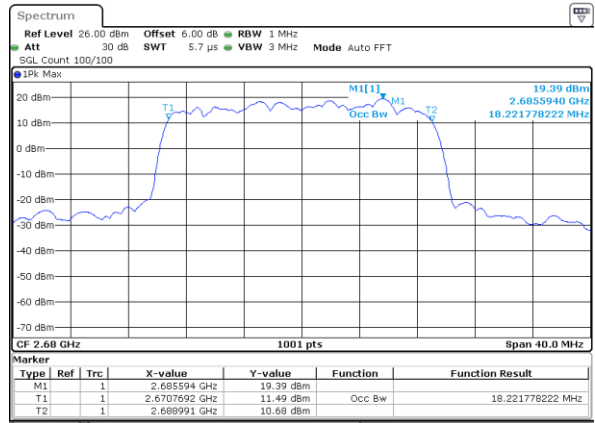
Date: 7 JUL 2020 18:22:36

Highest Channel / 20MHz / QPSK



Date: 7 JUL 2020 18:23:15

Highest Channel / 20MHz / 16QAM

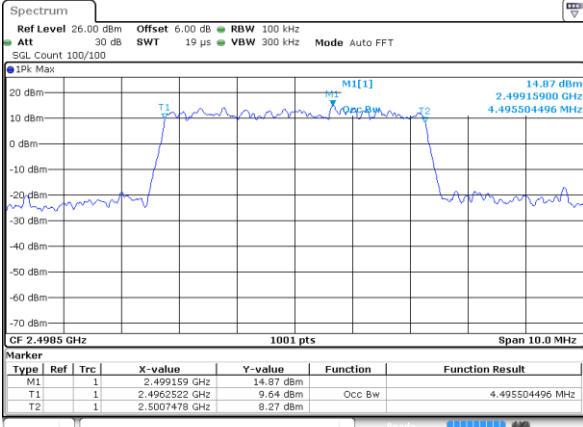


Date: 7 JUL 2020 18:23:35



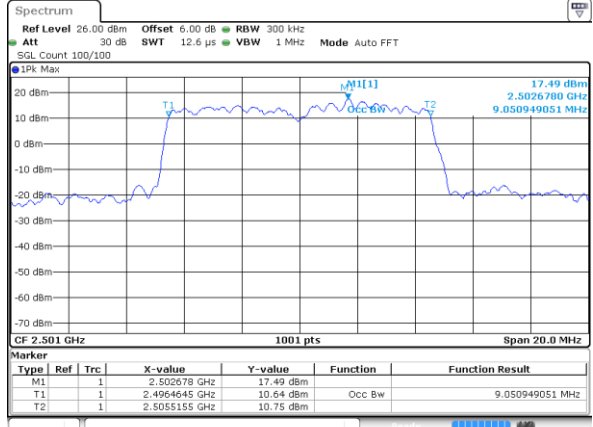
LTE Band 41

Lowest Channel / 5MHz / 64QAM



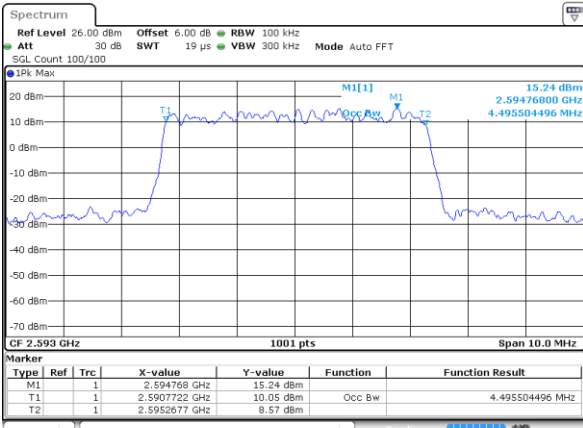
Date: 7 JUL 2020 18:11:47

Lowest Channel / 10MHz / 64QAM



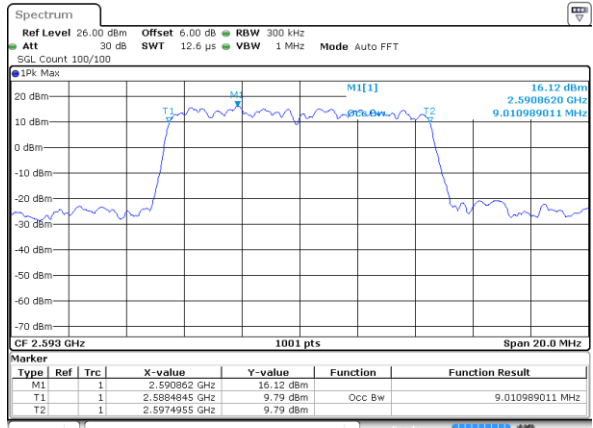
Date: 7 JUL 2020 18:15:34

Middle Channel / 5MHz / 64QAM



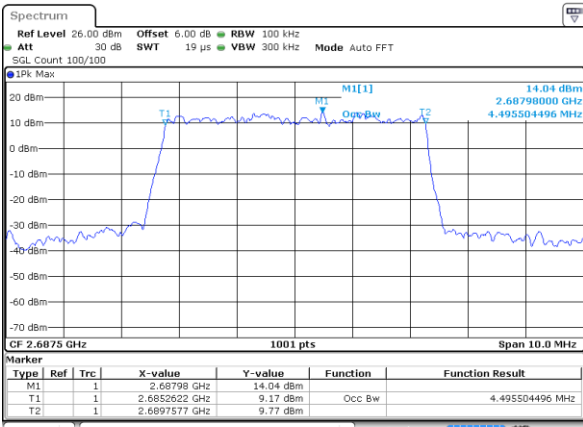
Date: 7 JUL 2020 18:12:46

Middle Channel / 10MHz / 64QAM



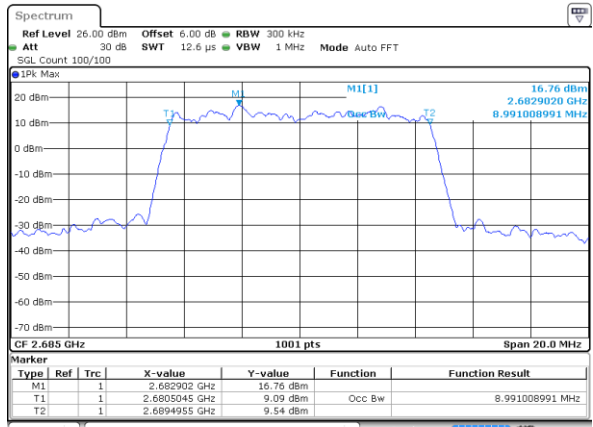
Date: 7 JUL 2020 18:16:33

Highest Channel / 5MHz / 64QAM



Date: 7 JUL 2020 18:13:46

Highest Channel / 10MHz / 64QAM

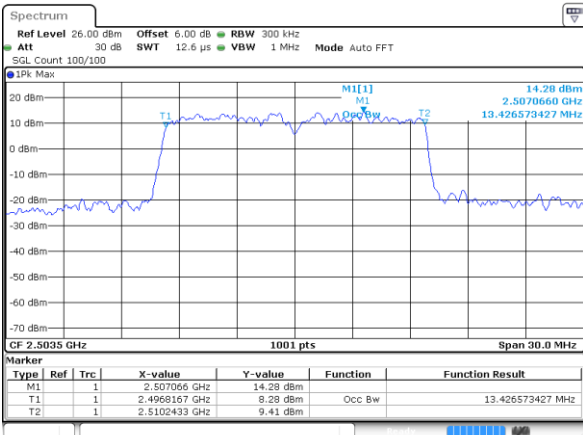


Date: 7 JUL 2020 18:17:33



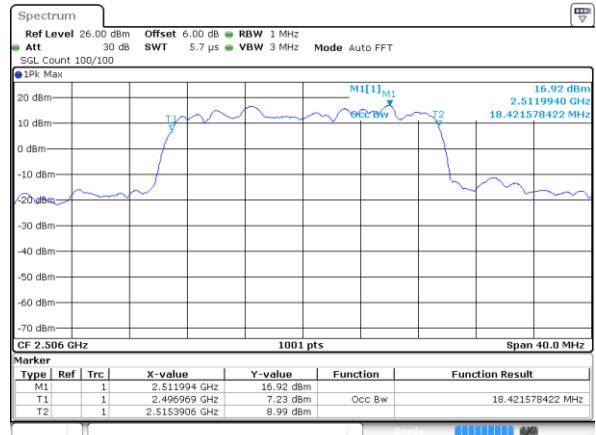
LTE Band 41

Lowest Channel / 15MHz / 64QAM



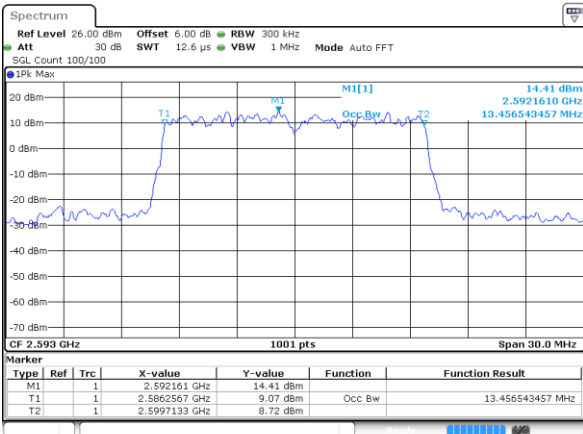
Date: 7 JUL 2020 18:18:33

Lowest Channel / 20MHz / 64QAM



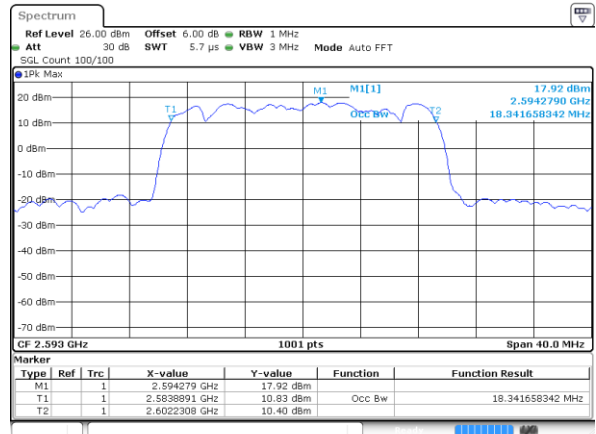
Date: 7 JUL 2020 18:21:56

Middle Channel / 15MHz / 64QAM



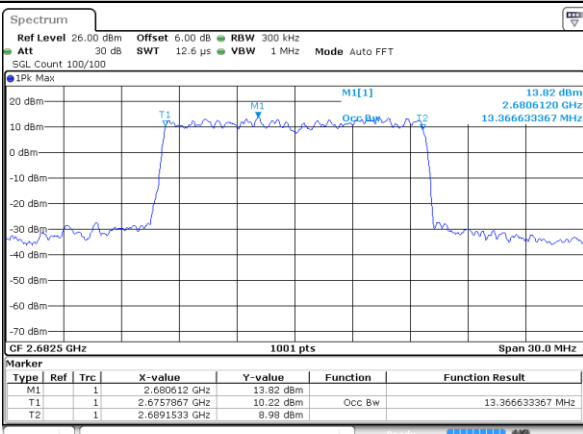
Date: 7 JUL 2020 18:19:32

Middle Channel / 20MHz / 64QAM



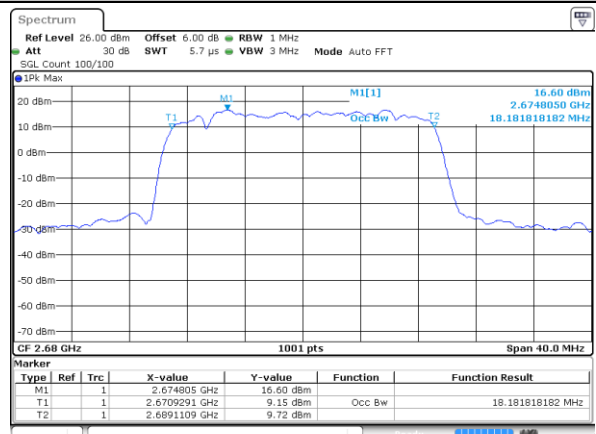
Date: 7 JUL 2020 18:22:55

Highest Channel / 15MHz / 64QAM



Date: 7 JUL 2020 18:20:57

Highest Channel / 20MHz / 64QAM



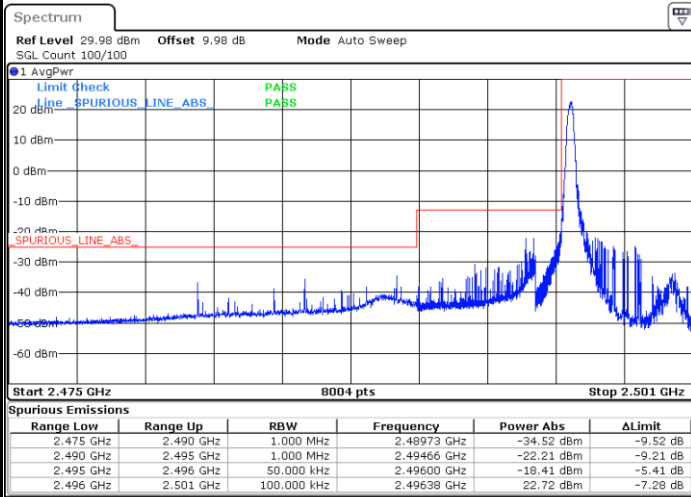
Date: 7 JUL 2020 18:23:55



Conducted Band Edge

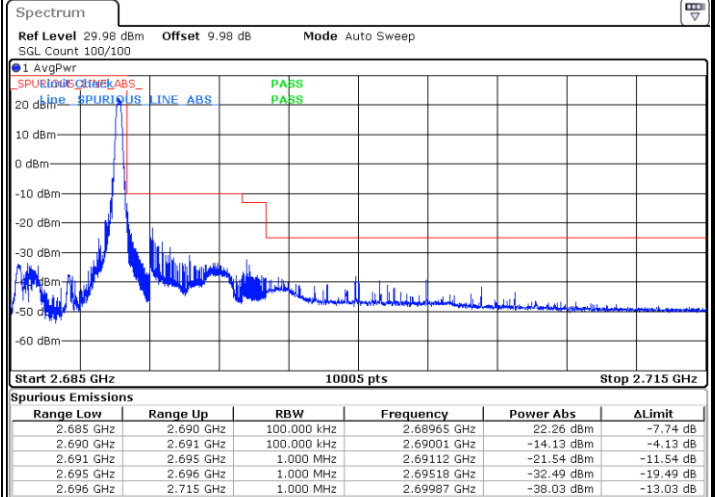
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



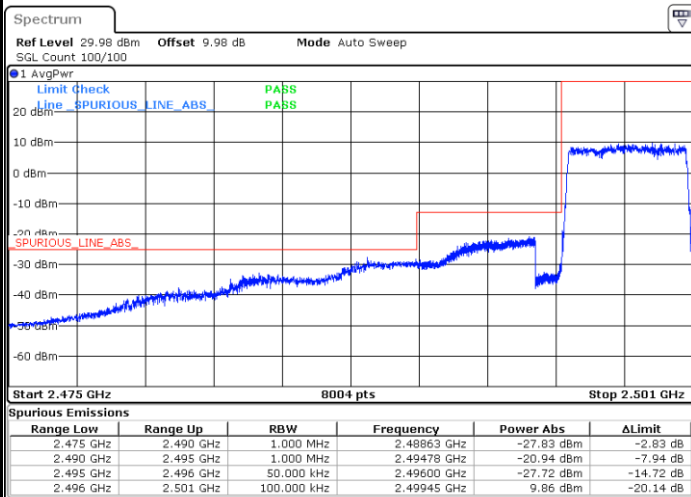
Date: 7 JUL 2020 20:36:51

Highest Band Edge / 1 RB



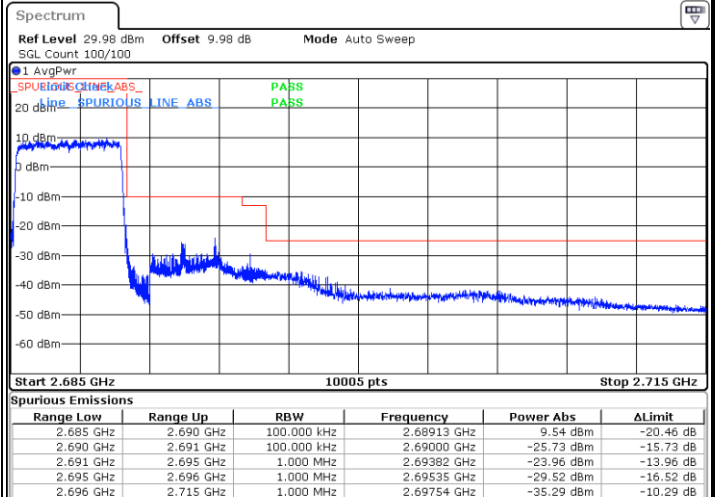
Date: 7 JUL 2020 20:41:23

Lowest Band Edge / Full RB



Date: 7 JUL 2020 20:39:07

Highest Band Edge / Full RB

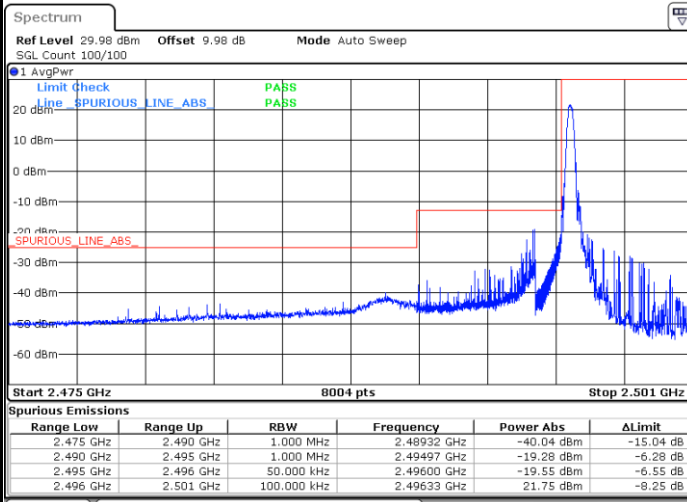


Date: 7 JUL 2020 20:43:39



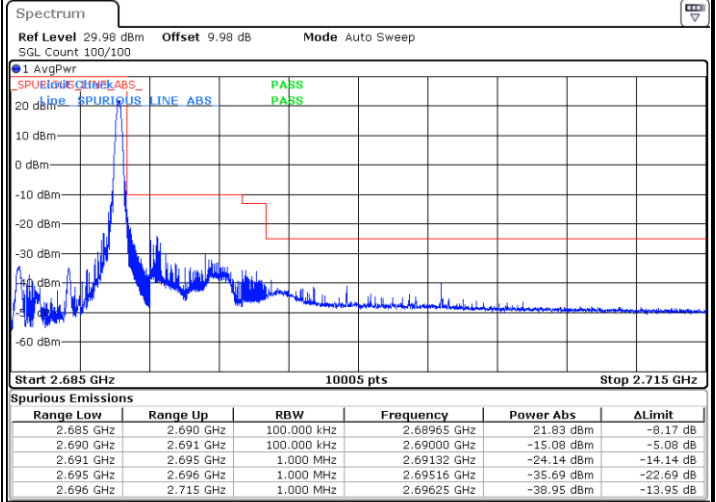
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



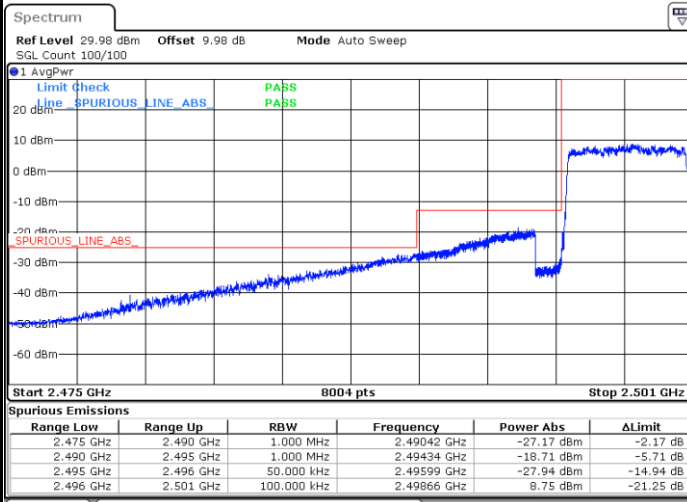
Date: 7 JUL 2020 20:37:59

Highest Band Edge / 1 RB



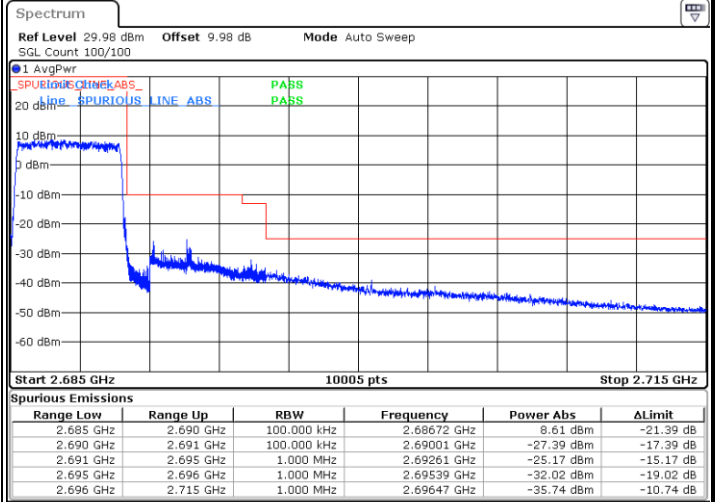
Date: 7 JUL 2020 20:42:31

Lowest Band Edge / Full RB



Date: 7 JUL 2020 20:40:15

Highest Band Edge / Full RB

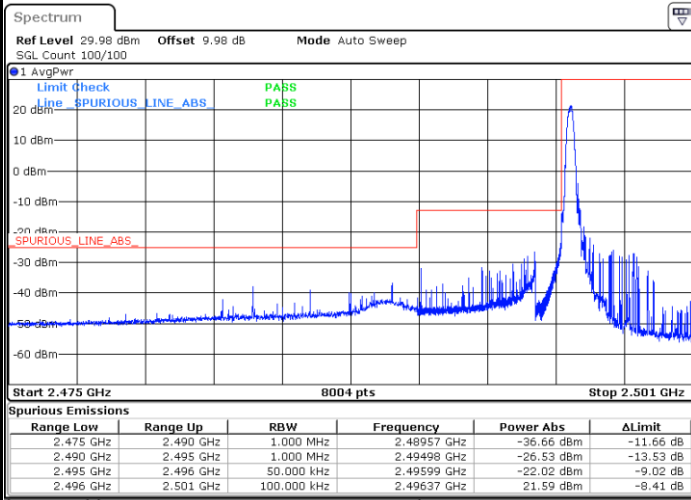


Date: 7 JUL 2020 20:44:47



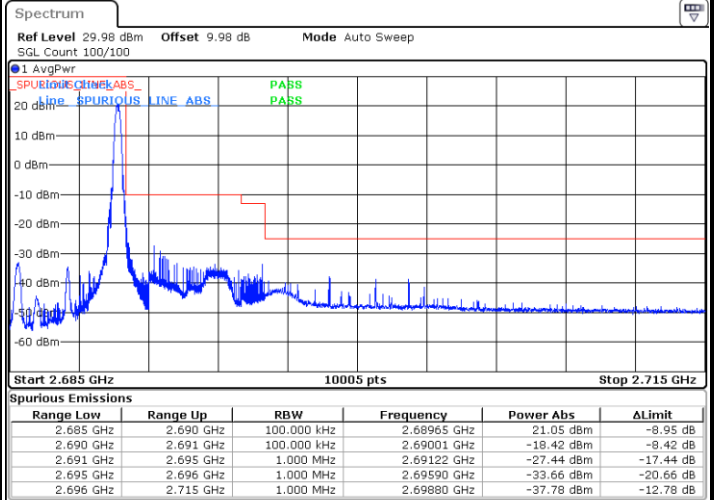
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



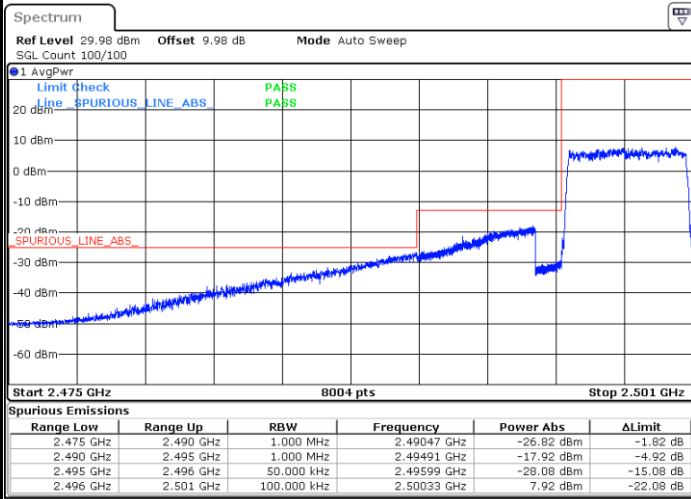
Date: 7 JUL 2020 21:13:07

Highest Band Edge / 1 RB



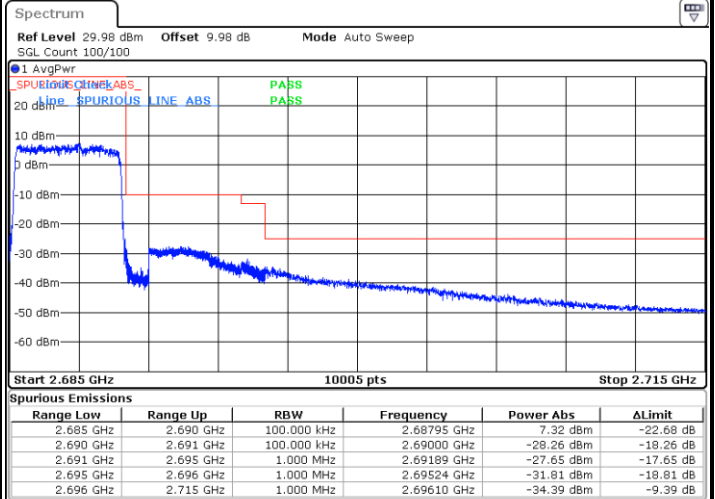
Date: 7 JUL 2020 21:16:31

Lowest Band Edge / Full RB



Date: 7 JUL 2020 21:14:15

Highest Band Edge / Full RB



Date: 7 JUL 2020 21:15:23