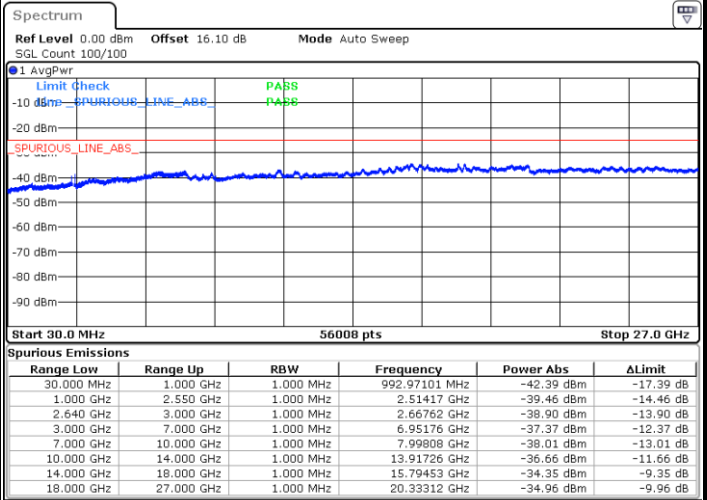
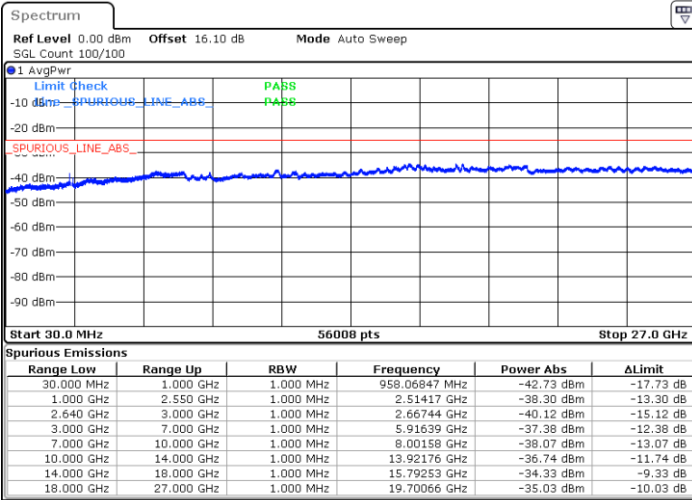




LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

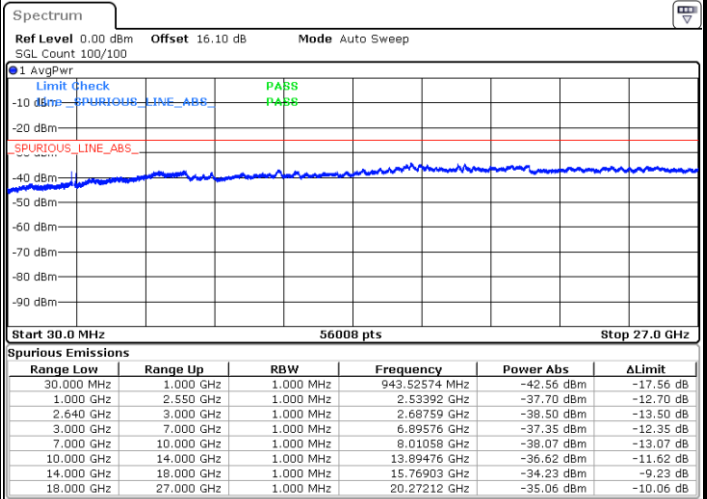
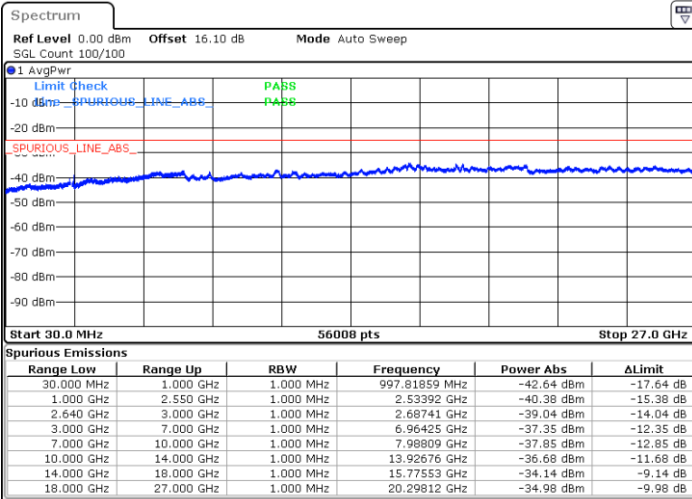


Date: 18.AUG.2020 01:50:58

Date: 18.AUG.2020 01:52:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.AUG.2020 01:53:38

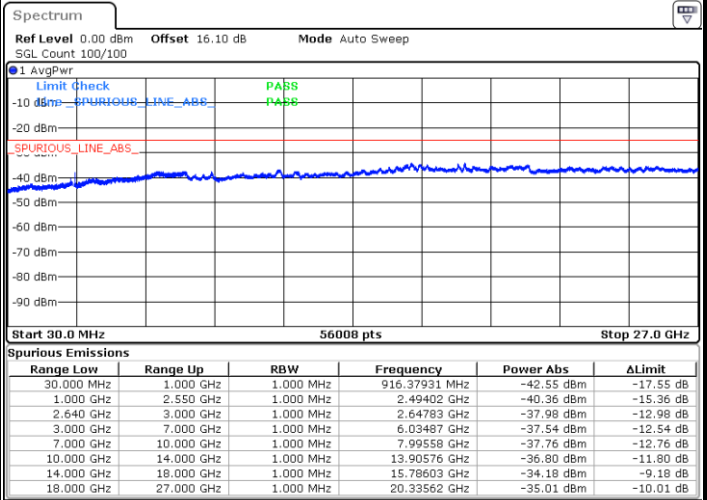
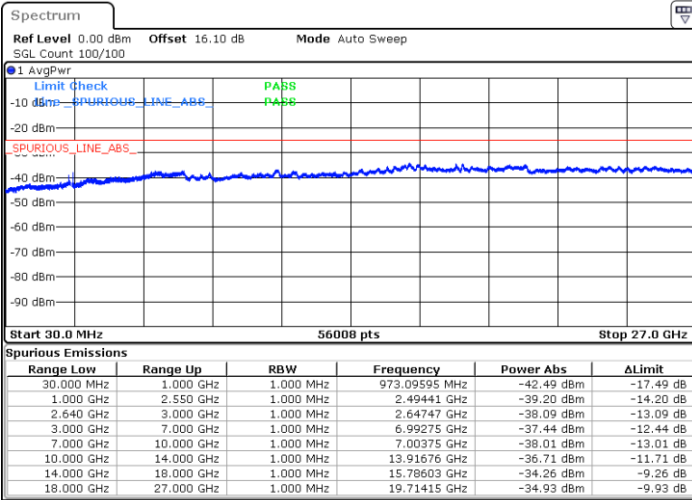
Date: 18.AUG.2020 01:54:58



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

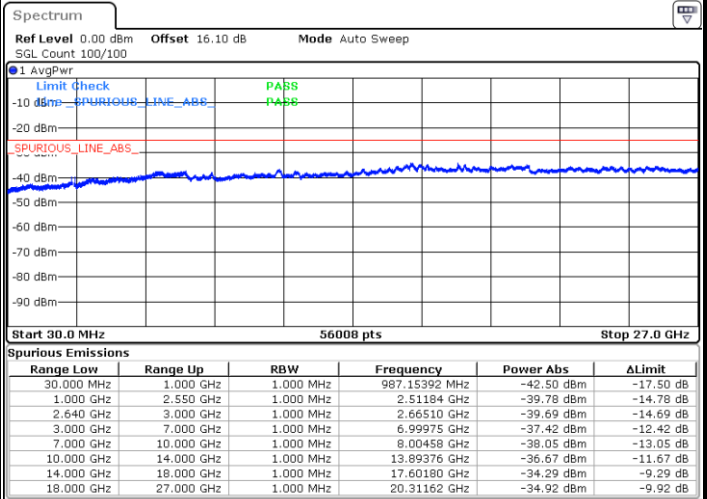
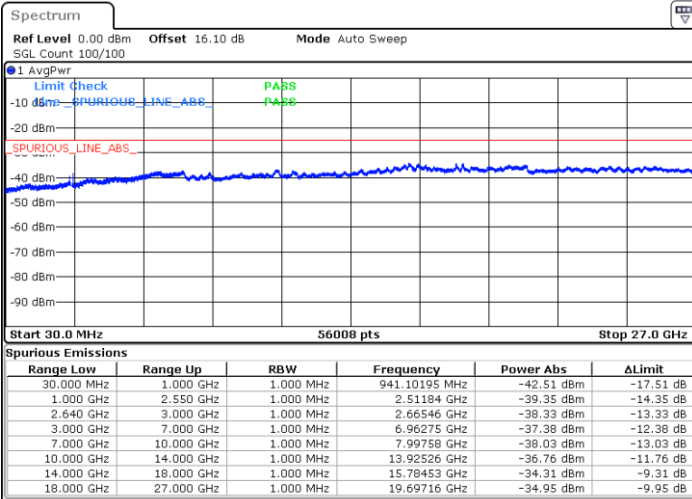


Date: 18.AUG.2020 01:56:19

Date: 18.AUG.2020 01:57:39

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 18.AUG.2020 01:58:59

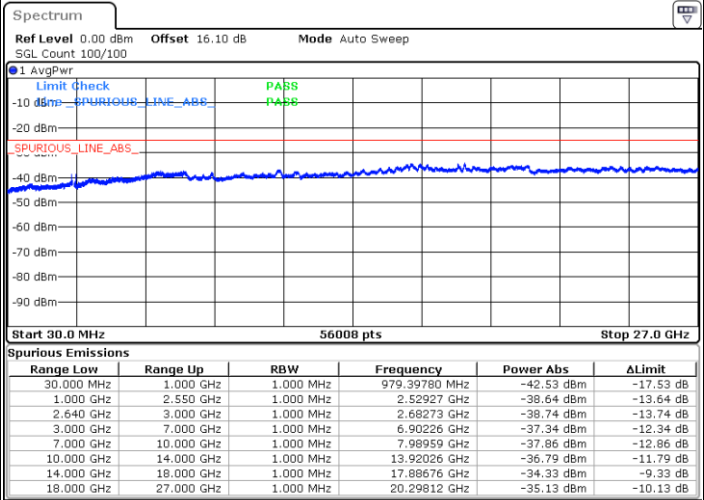
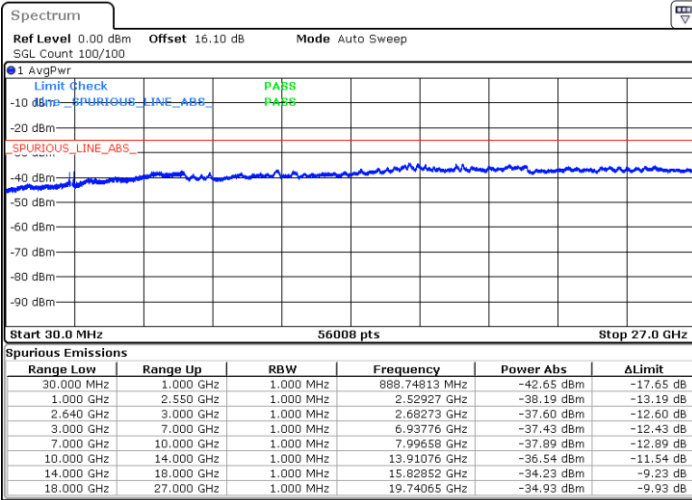
Date: 18.AUG.2020 02:00:19



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



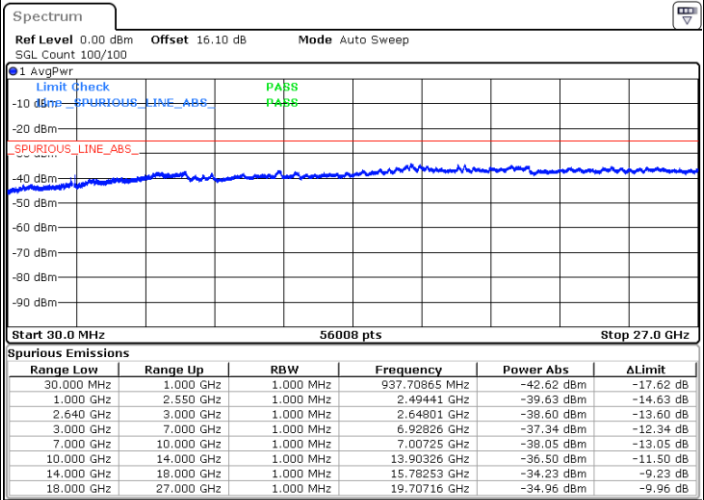
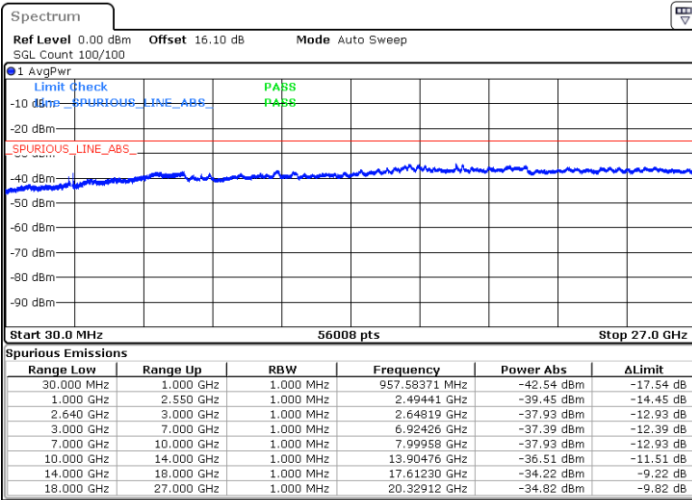
Date: 18.AUG.2020 02:01:39

Date: 18.AUG.2020 02:02:59

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 18.AUG.2020 02:04:20

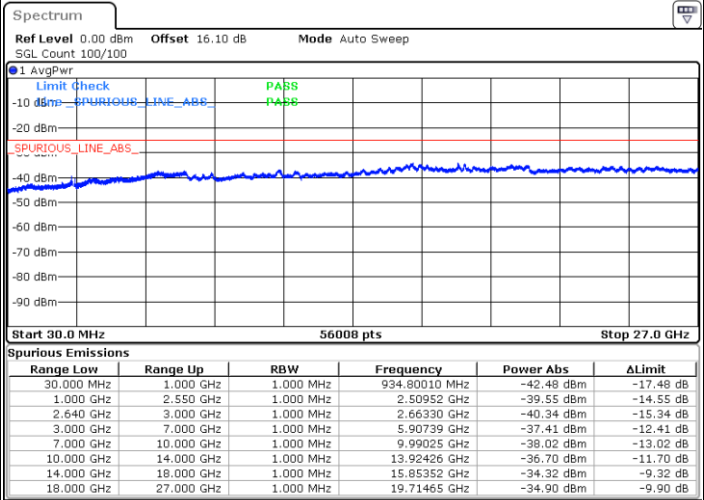
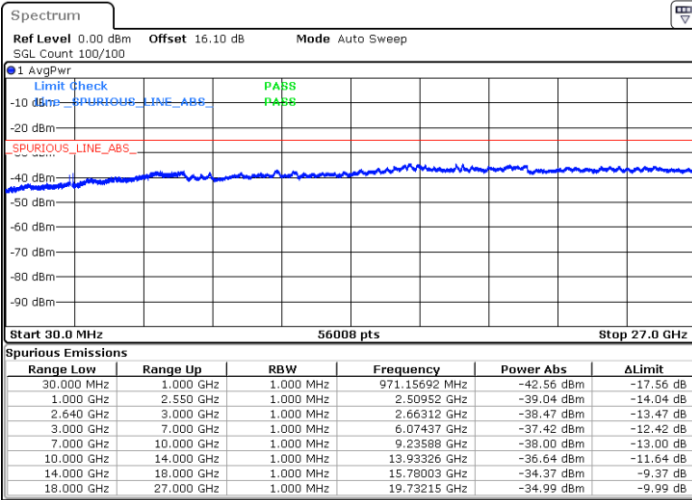
Date: 18.AUG.2020 02:05:40



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

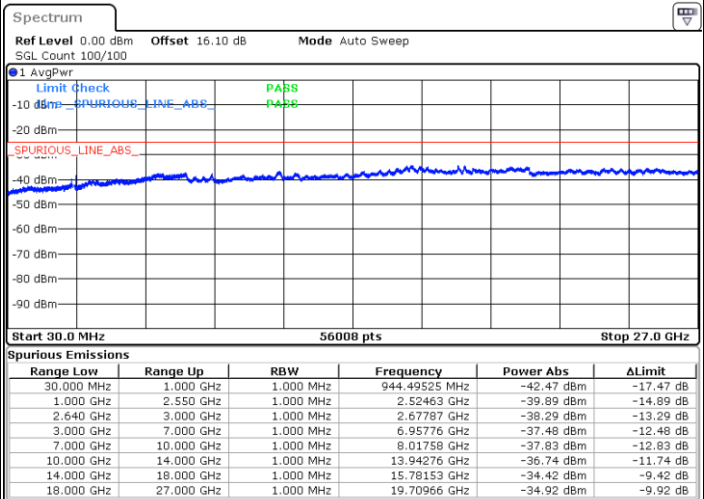
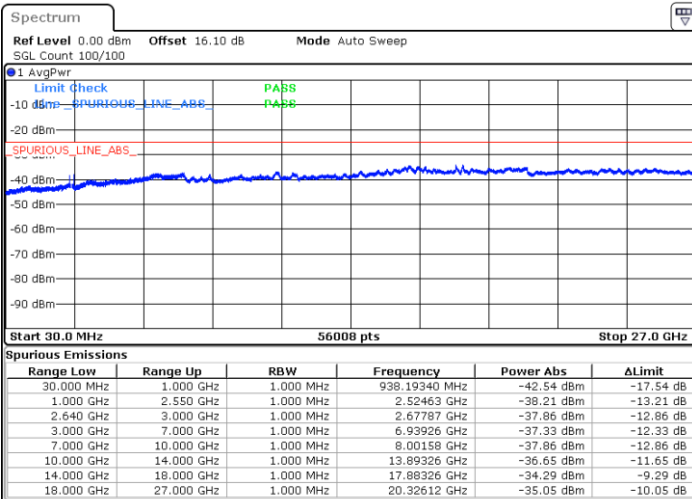


Date: 18.AUG.2020 02:07:00

Date: 18.AUG.2020 02:08:20

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.AUG.2020 02:09:40

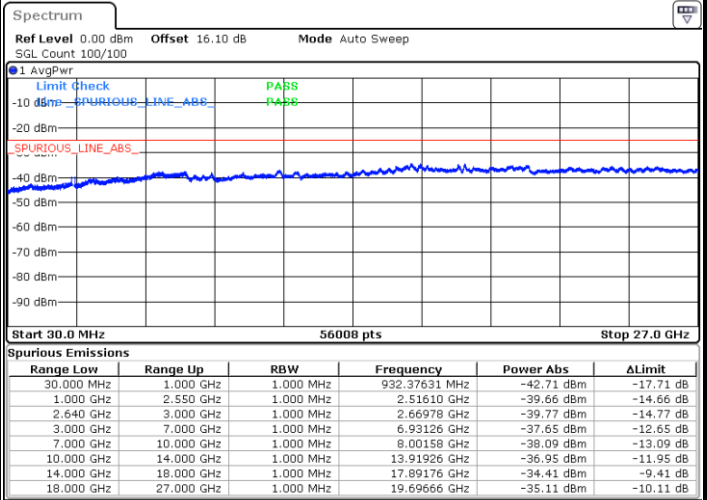
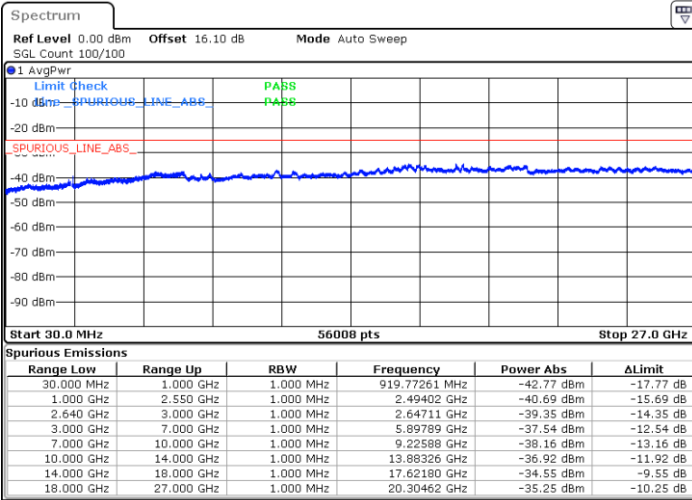
Date: 18.AUG.2020 02:11:00



LTE Band 38 / 5MHz

Lowest Channel / 64QAM

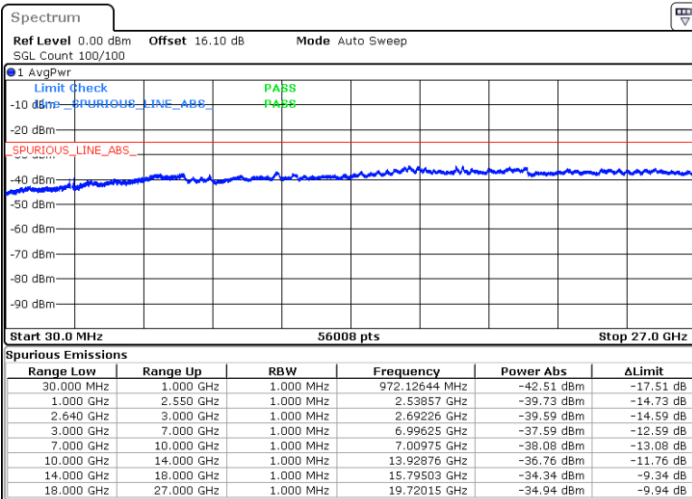
Middle Channel / 64QAM



Date: 4.SEP.2020 23:19:58

Date: 4.SEP.2020 23:21:18

Highest Channel / 64QAM



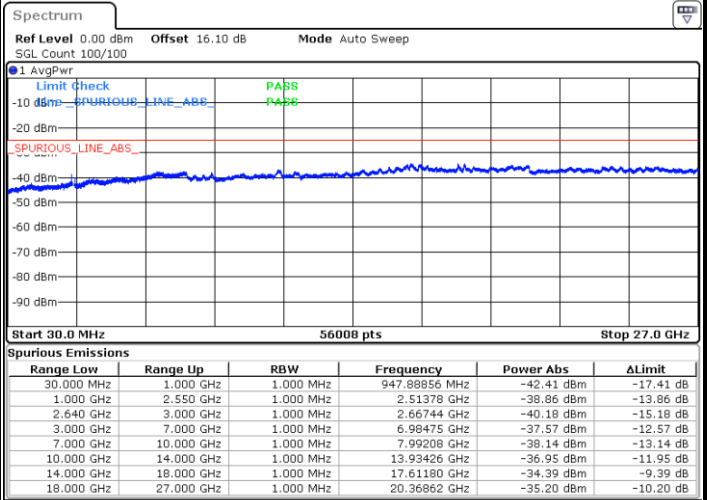
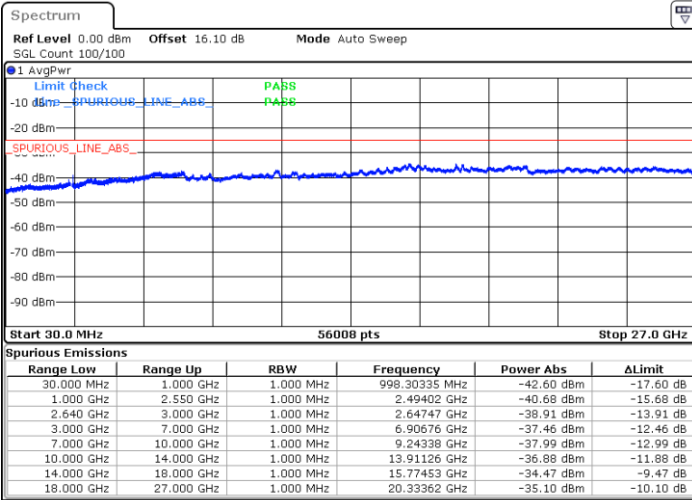
Date: 4.SEP.2020 23:22:38



LTE Band 38 / 10MHz

Lowest Channel / 64QAM

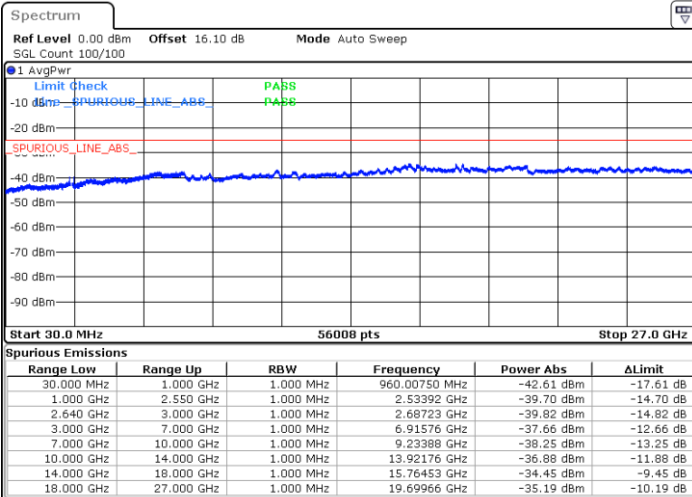
Middle Channel / 64QAM



Date: 4.SEP.2020 23:23:59

Date: 4.SEP.2020 23:25:19

Highest Channel / 64QAM



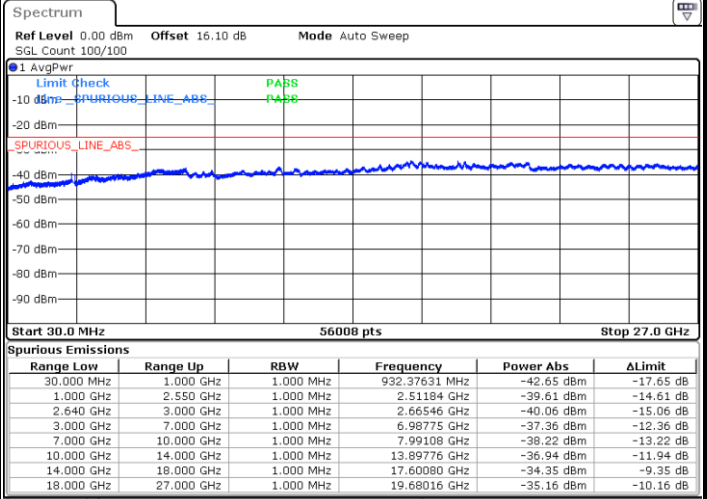
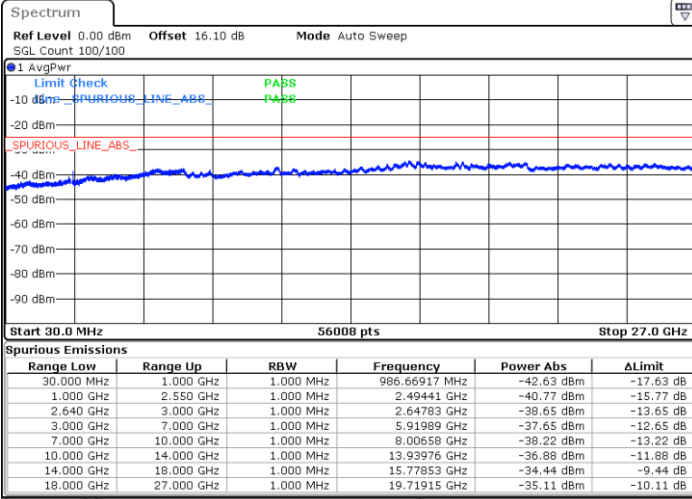
Date: 4.SEP.2020 23:26:39



LTE Band 38 / 15MHz

Lowest Channel / 64QAM

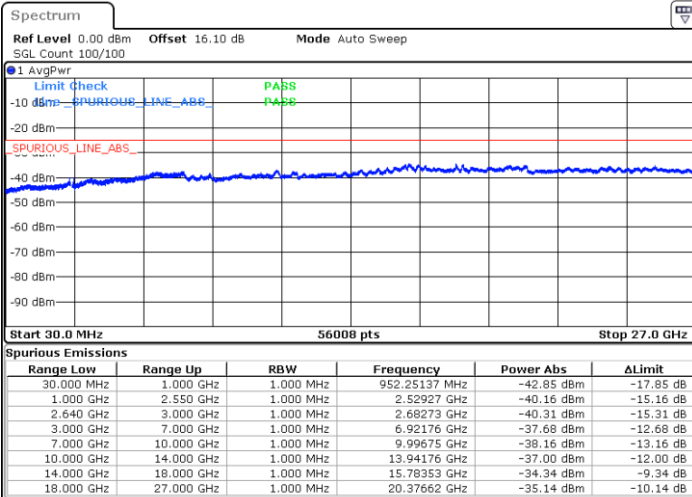
Middle Channel / 64QAM



Date: 4.SEP.2020 23:28:00

Date: 4.SEP.2020 23:29:19

Highest Channel / 64QAM



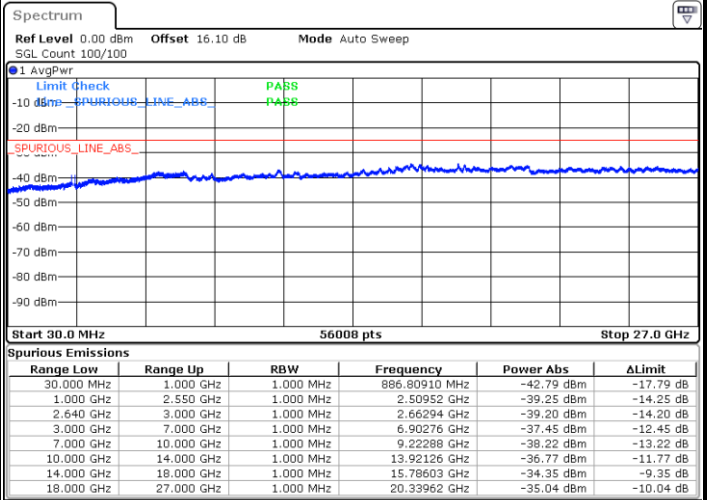
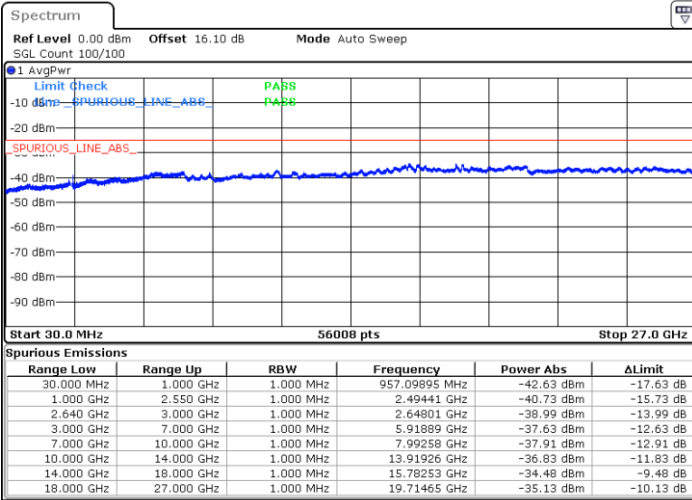
Date: 4.SEP.2020 23:30:39



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

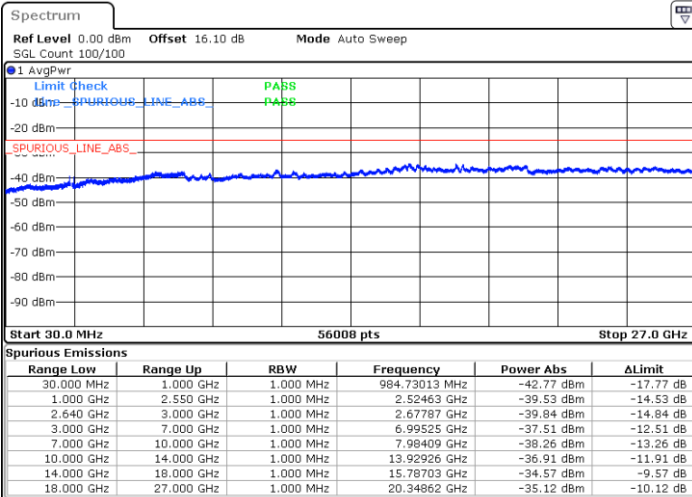
Middle Channel / 64QAM



Date: 4.SEP.2020 23:32:00

Date: 4.SEP.2020 23:33:20

Highest Channel / 64QAM



Date: 4.SEP.2020 23:34:40





Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0039	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41

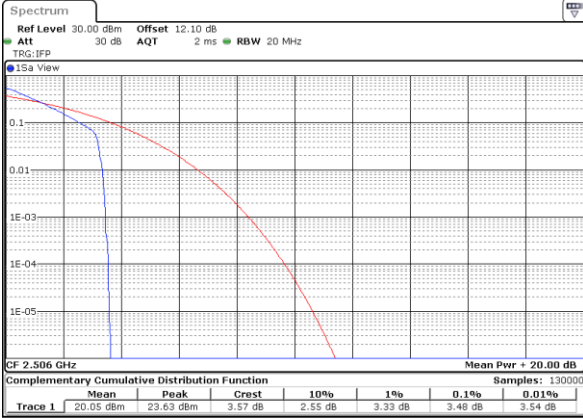
## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.48	4.43	5.04	5.88	PASS
Middle CH	3.51	4.29	5.28	5.62	
Highest CH	3.42	4.64	5.19	6.12	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.29	6.35	-	-	PASS
Middle CH	6.26	6.41	-	-	
Highest CH	6.17	6.78	-	-	



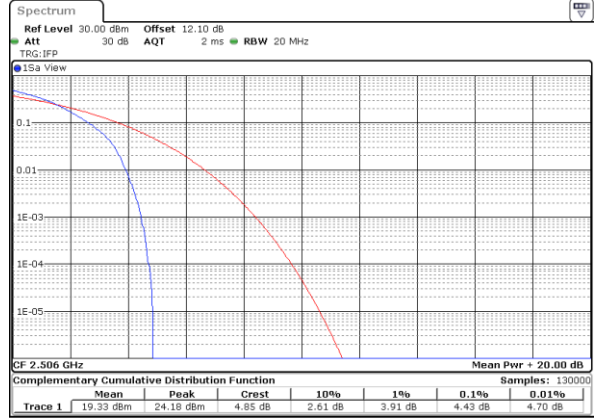
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



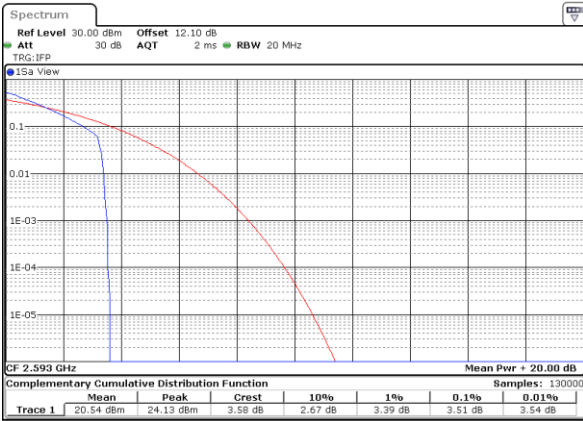
Date: 17\_AUG.2020 23:23:45

Lowest Channel / Full RB



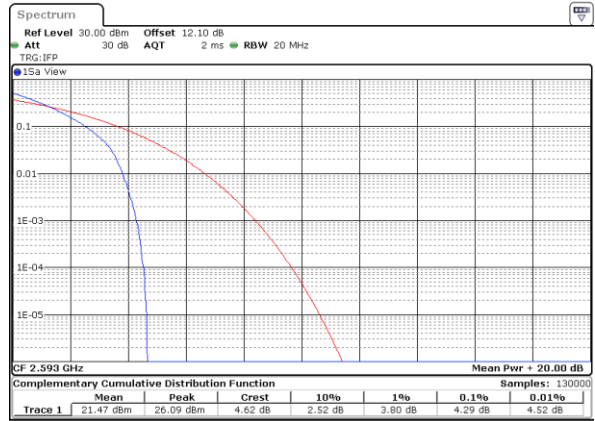
Date: 17\_AUG.2020 23:24:02

Middle Channel / 1RB



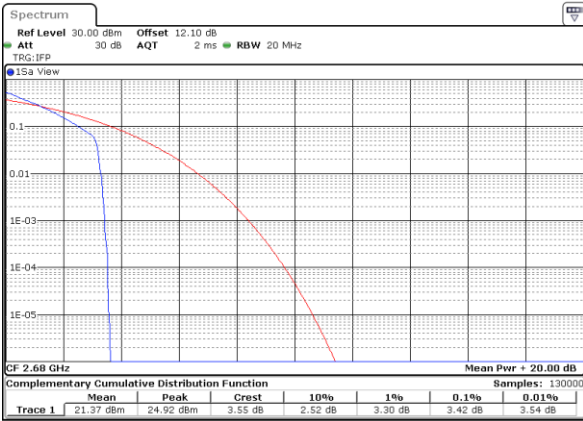
Date: 17\_AUG.2020 23:24:18

Middle Channel / Full RB



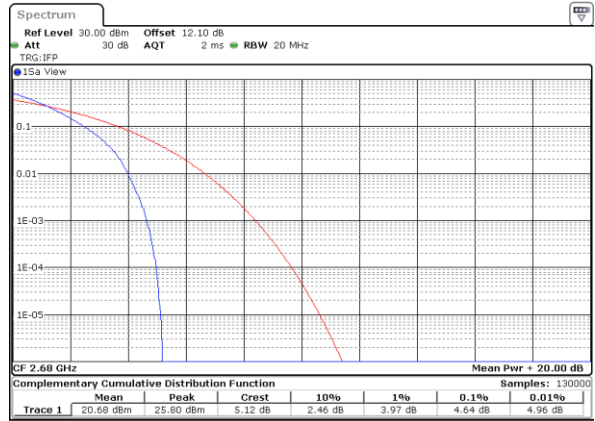
Date: 17\_AUG.2020 23:24:36

Highest Channel / 1RB



Date: 17\_AUG.2020 23:24:53

Highest Channel / Full RB

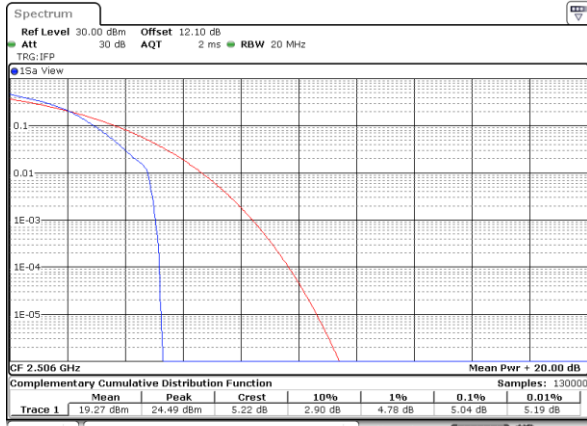


Date: 17\_AUG.2020 23:25:11



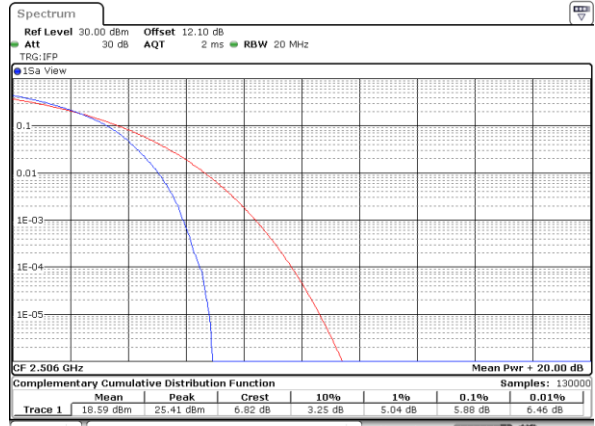
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



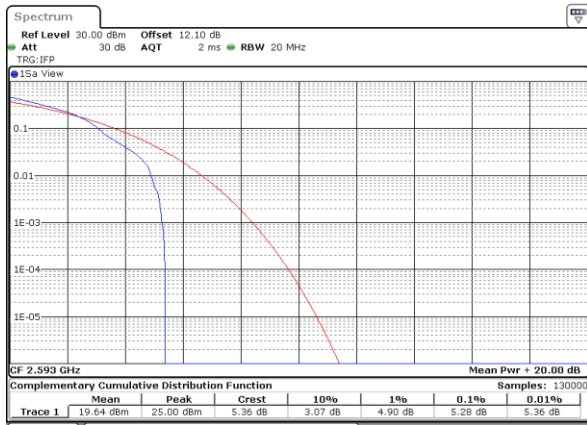
Date: 17\_AUG.2020 23:21:20

Lowest Channel / Full RB



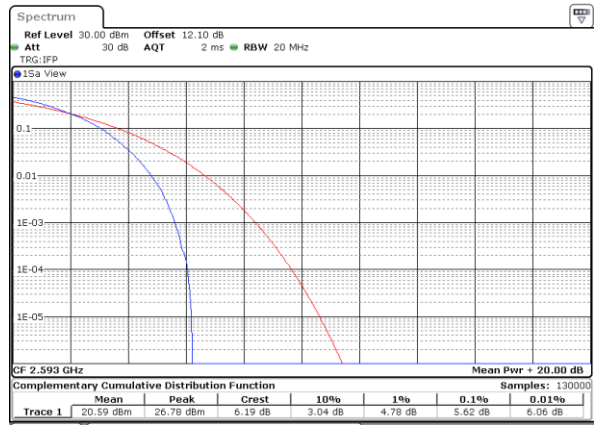
Date: 17\_AUG.2020 23:21:41

Middle Channel / 1RB



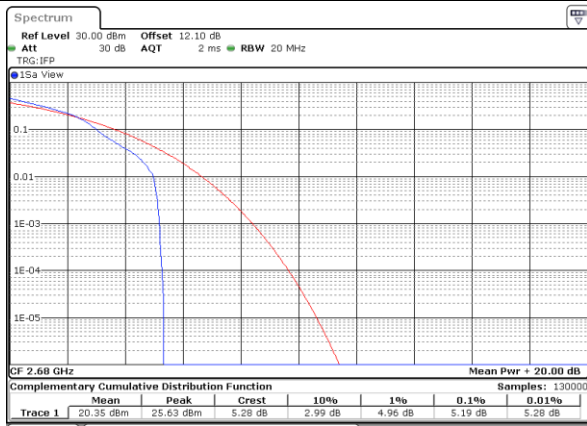
Date: 17\_AUG.2020 23:21:59

Middle Channel / Full RB



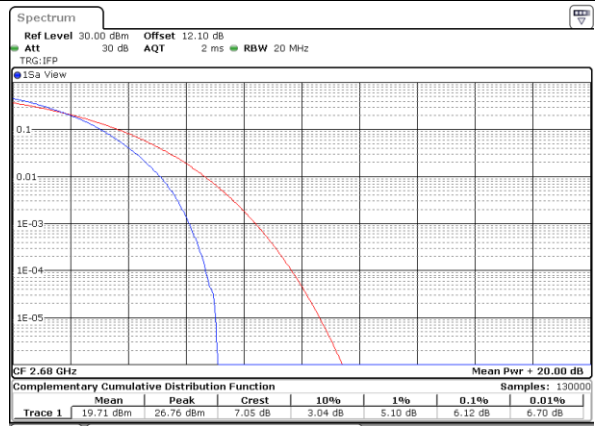
Date: 17\_AUG.2020 23:22:15

Highest Channel / 1RB



Date: 17\_AUG.2020 23:23:04

Highest Channel / Full RB

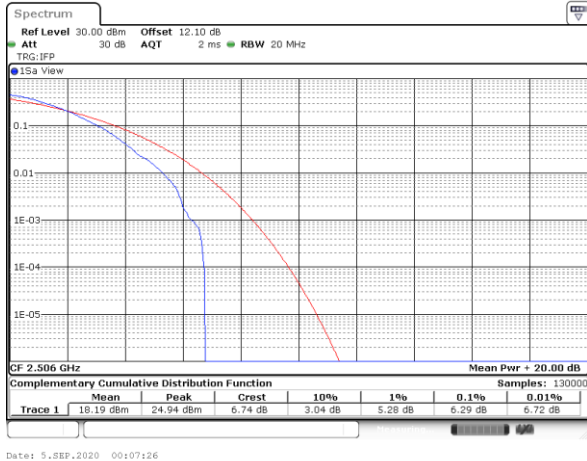


Date: 17\_AUG.2020 23:23:23

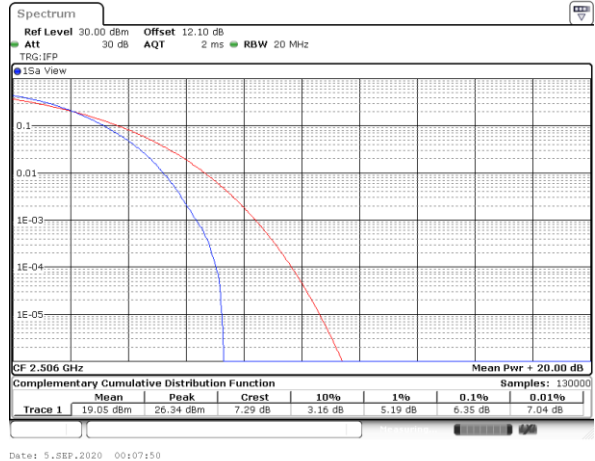


LTE Band 41 / 20MHz / 64QAM

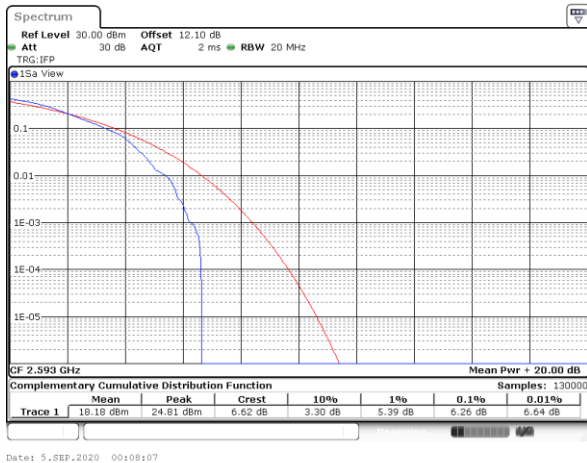
Lowest Channel / 1RB



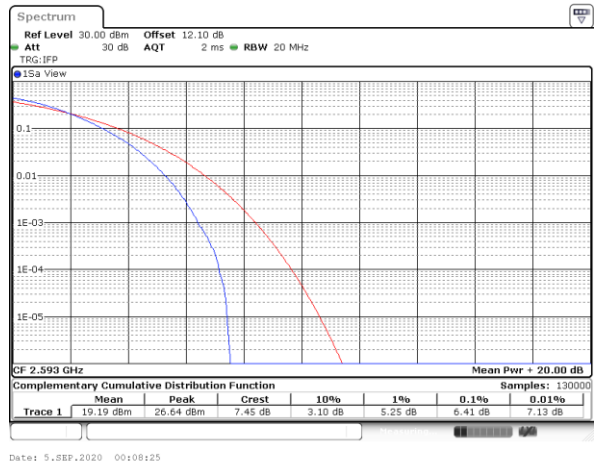
Lowest Channel / Full RB



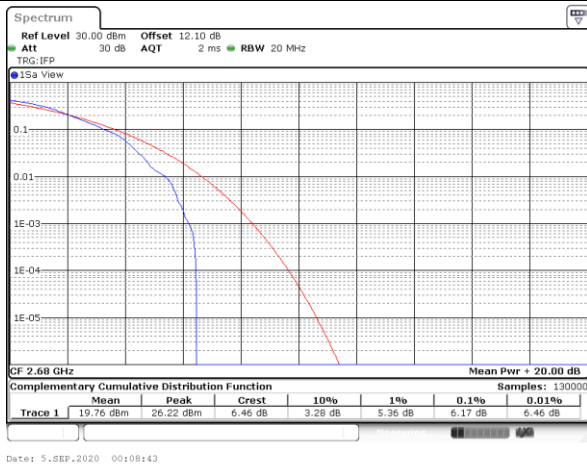
Middle Channel / 1RB



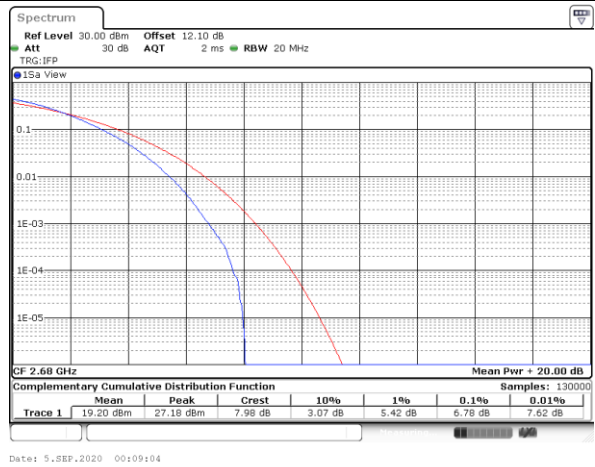
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





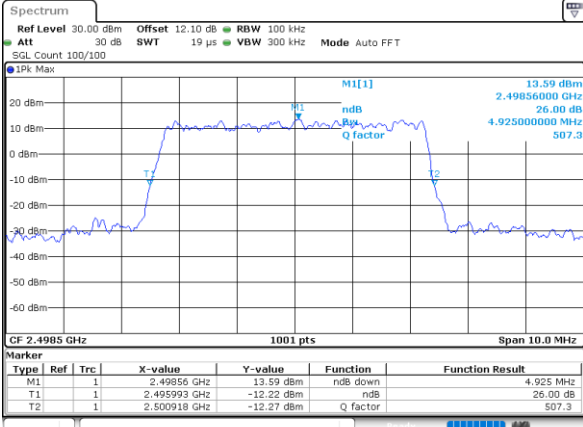
**26dB Bandwidth**

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.93	4.86	9.63	9.73	14.30	14.12	18.70	18.62
Middle CH	-	-	-	-	4.73	4.83	9.69	9.65	14.30	14.09	18.82	18.62
Highest CH	-	-	-	-	4.95	4.94	9.77	9.67	14.57	14.15	19.14	18.74
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.86	-	9.77	-	14.12	-	18.86	-
Middle CH	-	-	-	-	4.91	-	9.77	-	14.12	-	18.98	-
Highest CH	-	-	-	-	4.91	-	9.79	-	14.21	-	18.98	-



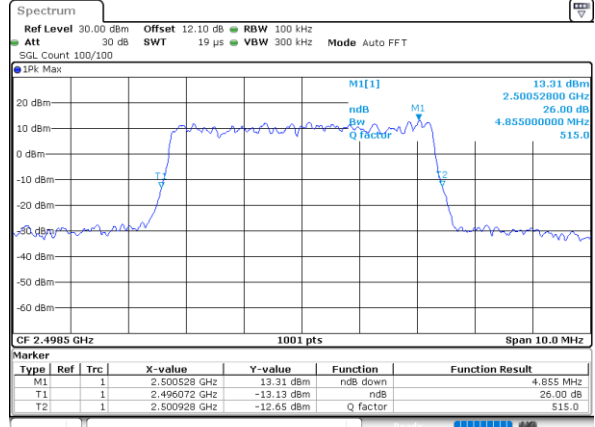
LTE Band 41

Lowest Channel / 5MHz / QPSK



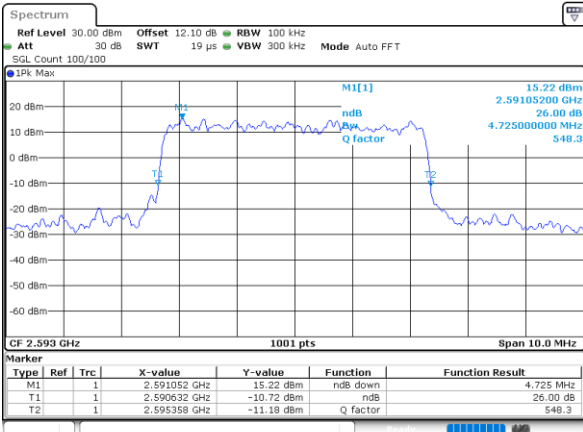
Date: 17\_AUG.2020 23:10:38

Lowest Channel / 5MHz / 16QAM



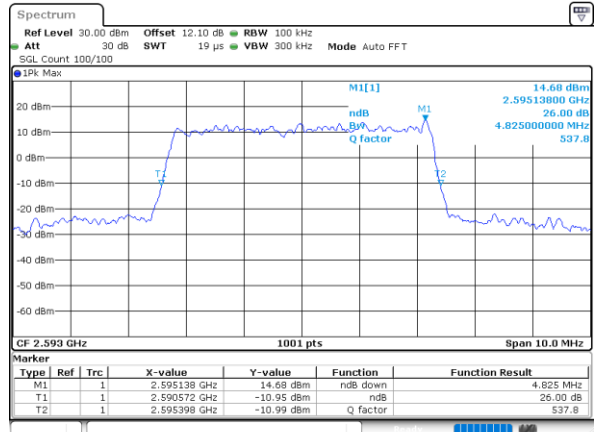
Date: 17\_AUG.2020 23:11:50

Middle Channel / 5MHz / QPSK



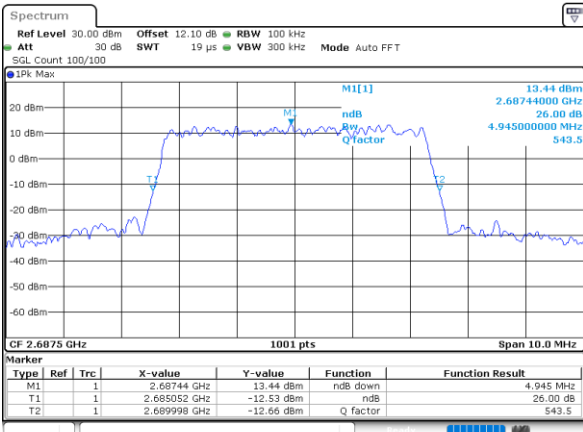
Date: 17\_AUG.2020 23:11:24

Middle Channel / 5MHz / 16QAM



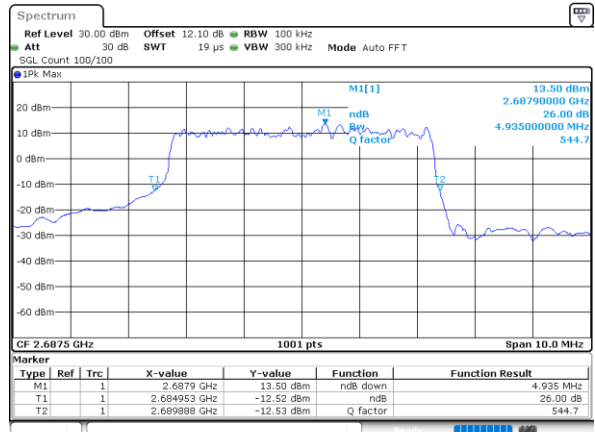
Date: 17\_AUG.2020 23:11:35

Highest Channel / 5MHz / QPSK



Date: 17\_AUG.2020 23:12:10

Highest Channel / 5MHz / 16QAM

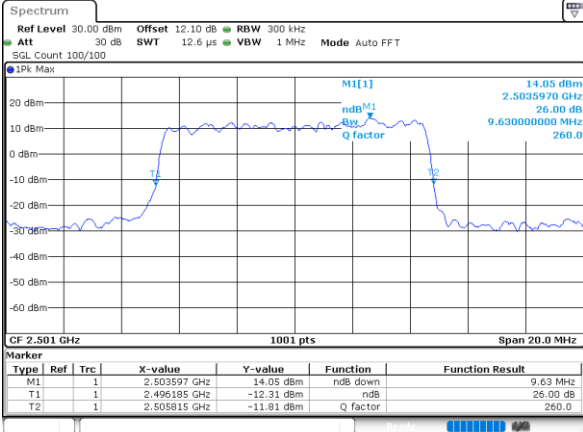


Date: 17\_AUG.2020 23:12:22



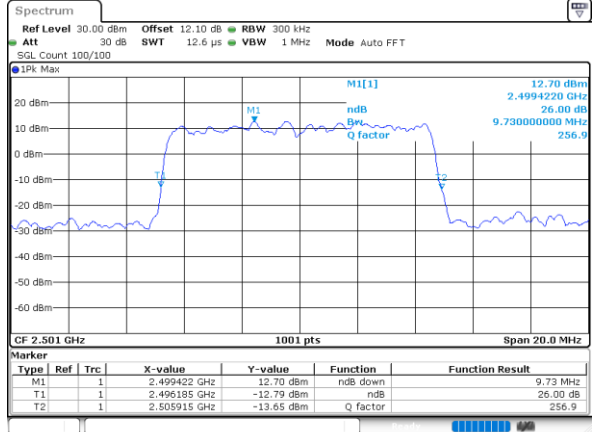
LTE Band 41

Lowest Channel / 10MHz / QPSK



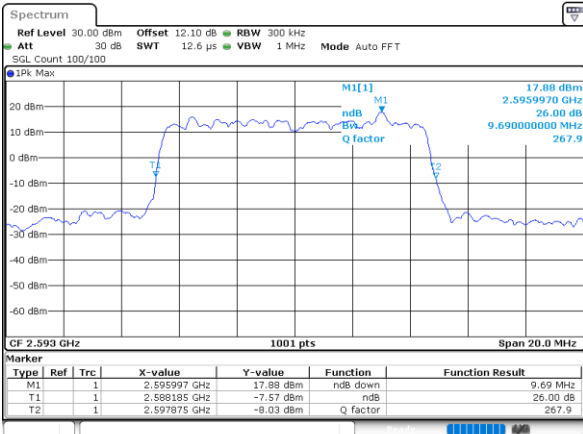
Date: 17\_AUG.2020 23:12:58

Lowest Channel / 10MHz / 16QAM



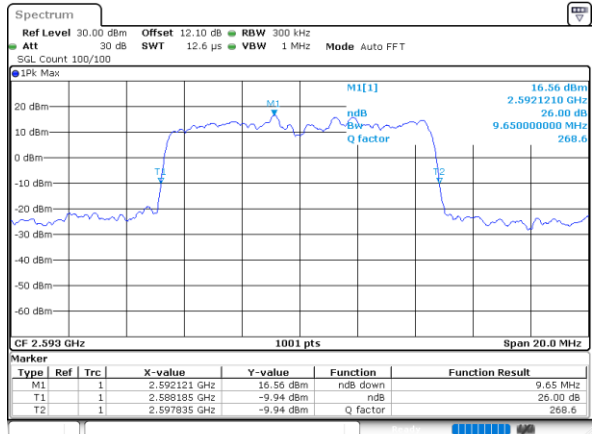
Date: 17\_AUG.2020 23:13:10

Middle Channel / 10MHz / QPSK



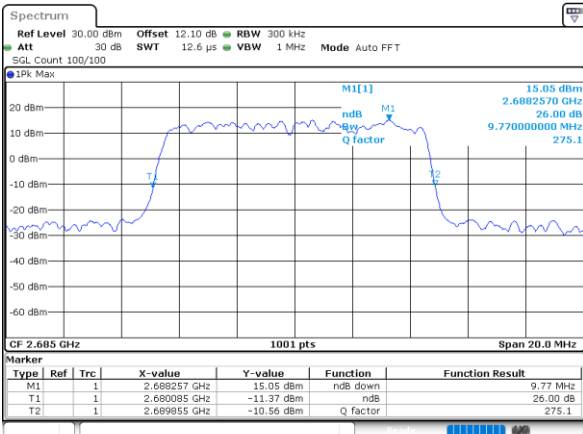
Date: 17\_AUG.2020 23:13:44

Middle Channel / 10MHz / 16QAM



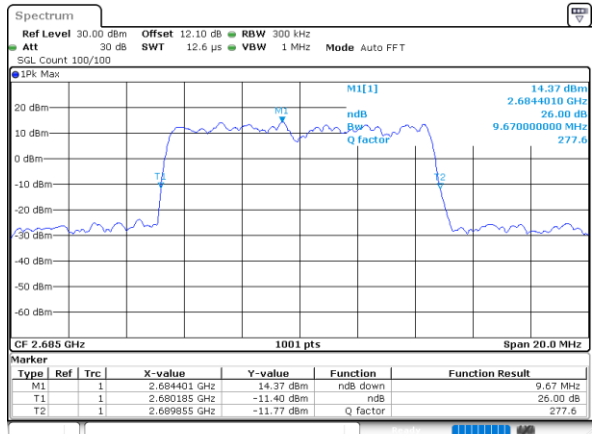
Date: 17\_AUG.2020 23:13:55

Highest Channel / 10MHz / QPSK



Date: 17\_AUG.2020 23:14:31

Highest Channel / 10MHz / 16QAM



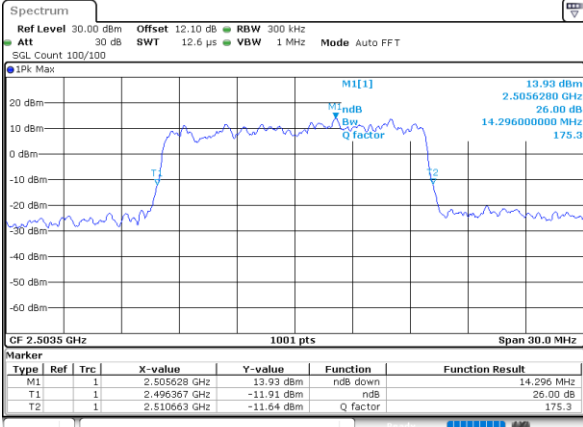
Date: 17\_AUG.2020 23:14:42





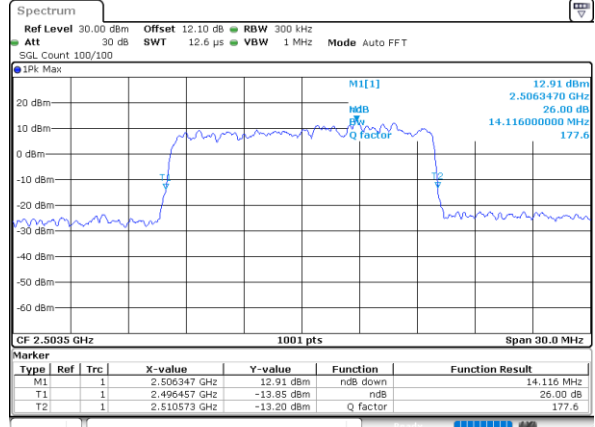
LTE Band 41

Lowest Channel / 15MHz / QPSK



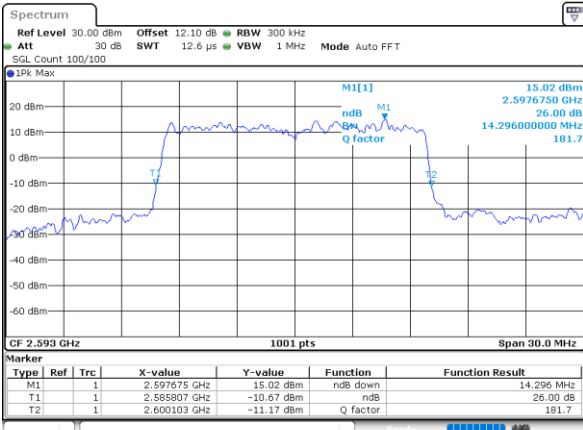
Date: 17\_AUG.2020 23:15:18

Lowest Channel / 15MHz / 16QAM



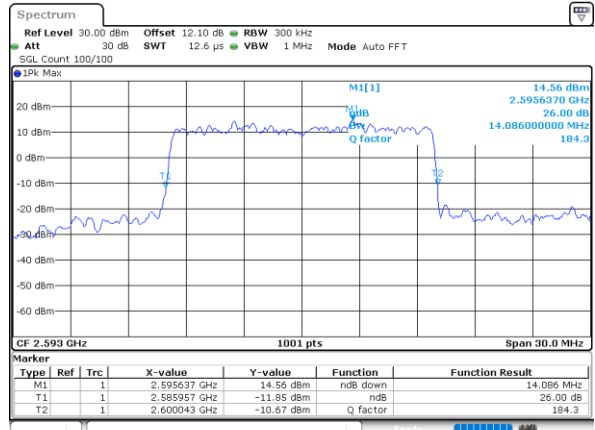
Date: 17\_AUG.2020 23:15:30

Middle Channel / 15MHz / QPSK



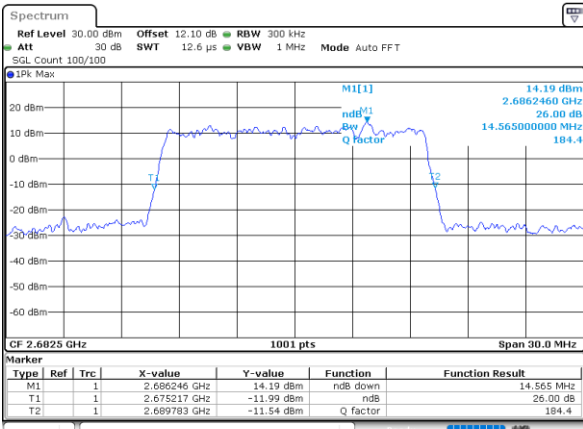
Date: 17\_AUG.2020 23:16:04

Middle Channel / 15MHz / 16QAM



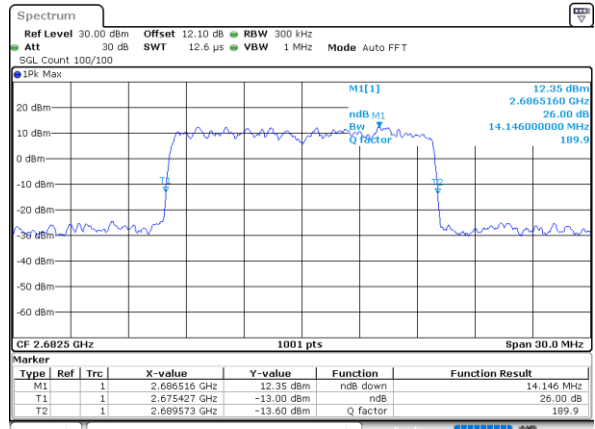
Date: 17\_AUG.2020 23:16:15

Highest Channel / 15MHz / QPSK



Date: 17\_AUG.2020 23:16:51

Highest Channel / 15MHz / 16QAM

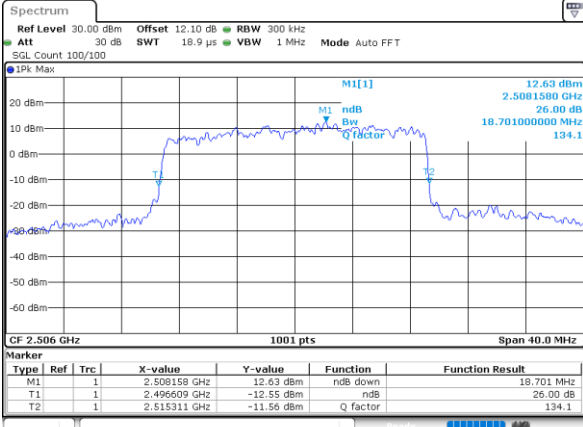


Date: 17\_AUG.2020 23:17:03



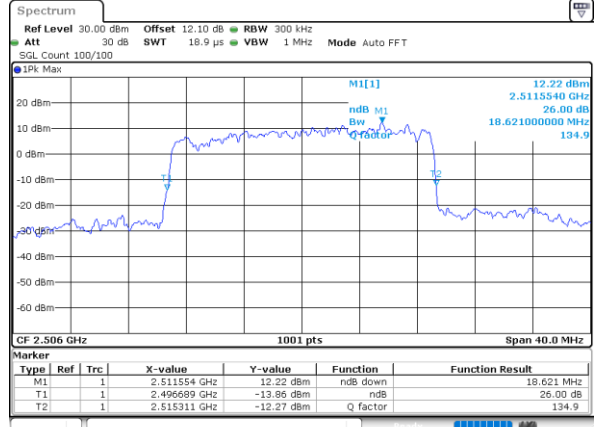
LTE Band 41

Lowest Channel / 20MHz / QPSK



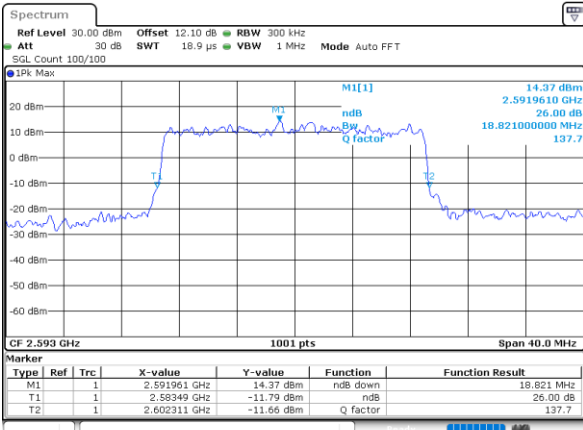
Date: 17\_AUG.2020 23:17:39

Lowest Channel / 20MHz / 16QAM



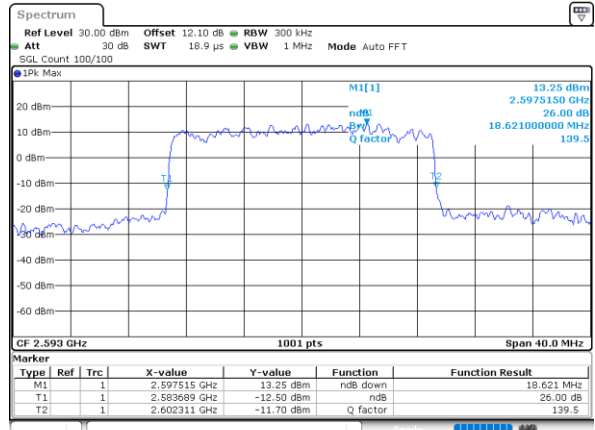
Date: 17\_AUG.2020 23:17:50

Middle Channel / 20MHz / QPSK



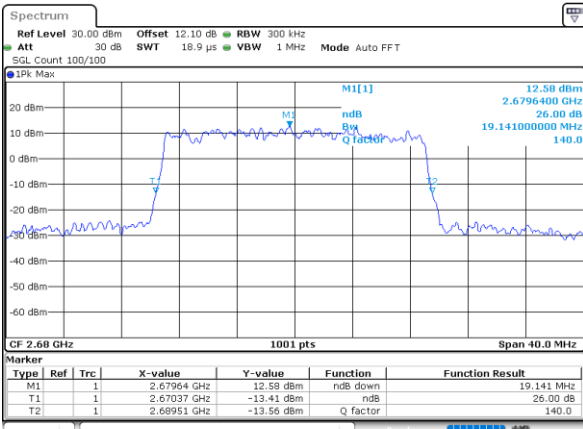
Date: 17\_AUG.2020 23:18:24

Middle Channel / 20MHz / 16QAM



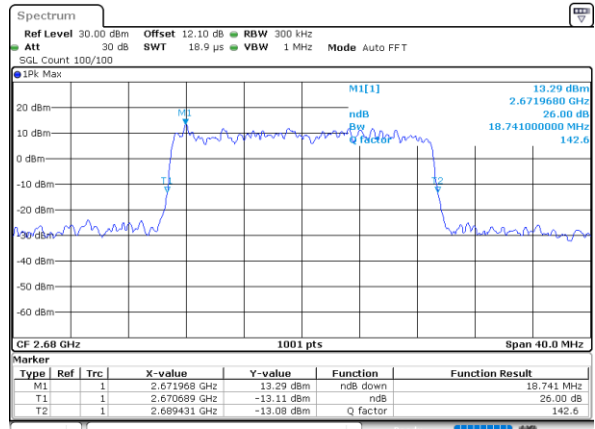
Date: 17\_AUG.2020 23:18:36

Highest Channel / 20MHz / QPSK



Date: 17\_AUG.2020 23:19:11

Highest Channel / 20MHz / 16QAM

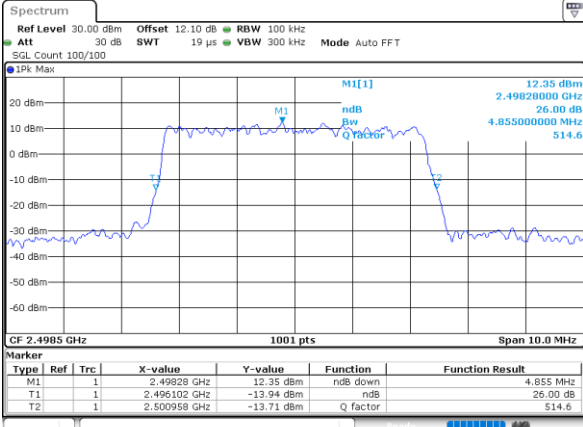


Date: 17\_AUG.2020 23:19:23



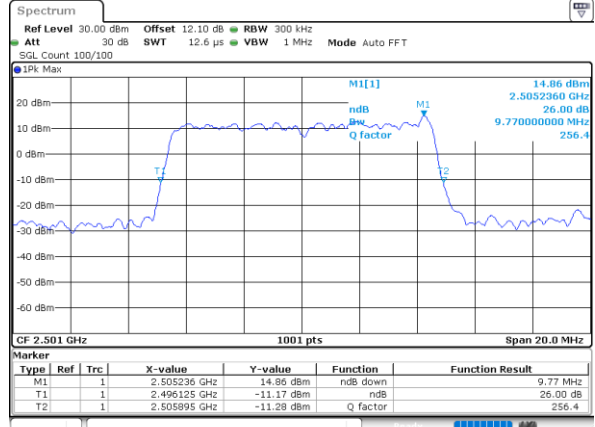
LTE Band 41

Lowest Channel / 5MHz / 64QAM



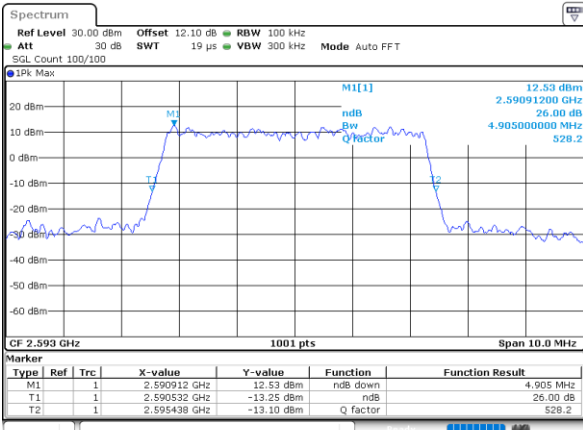
Date: 5,SEP,2020 00:02:48

Lowest Channel / 10MHz / 64QAM



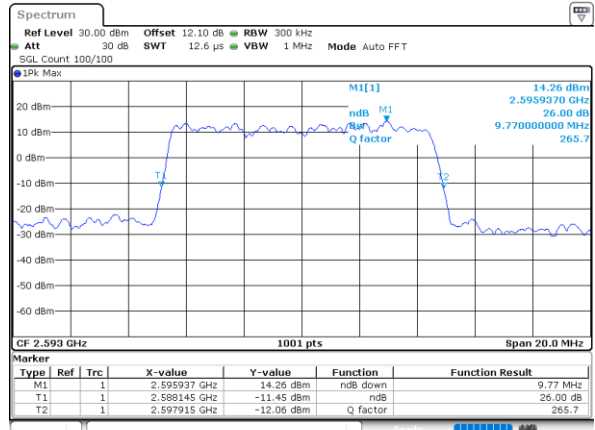
Date: 5,SEP,2020 00:03:58

Middle Channel / 5MHz / 64QAM



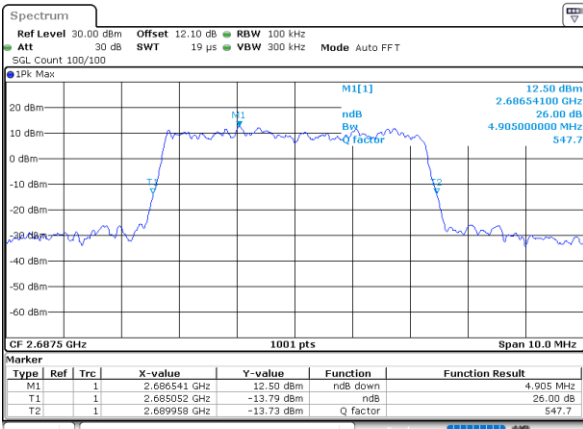
Date: 5,SEP,2020 00:03:10

Middle Channel / 10MHz / 64QAM



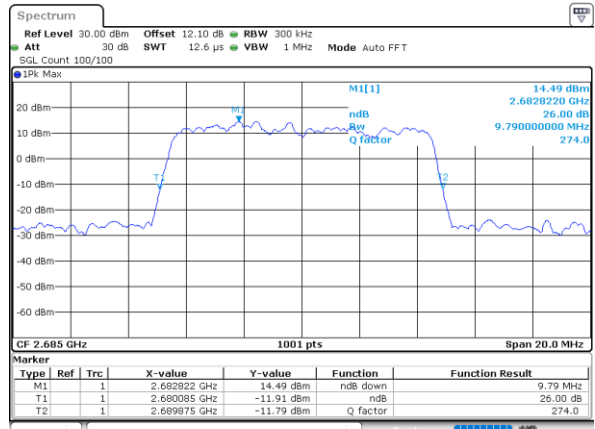
Date: 5,SEP,2020 00:04:20

Highest Channel / 5MHz / 64QAM



Date: 5,SEP,2020 00:03:33

Highest Channel / 10MHz / 64QAM

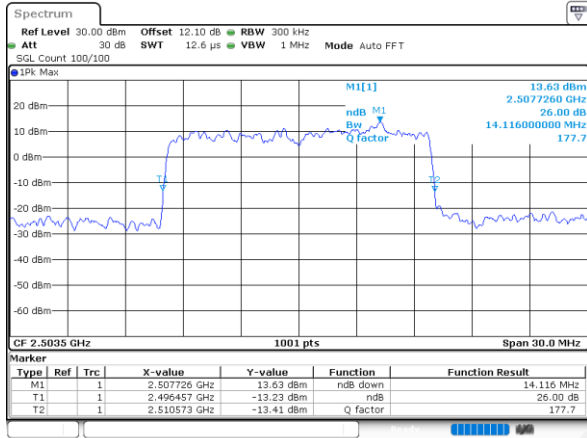


Date: 5,SEP,2020 00:04:43



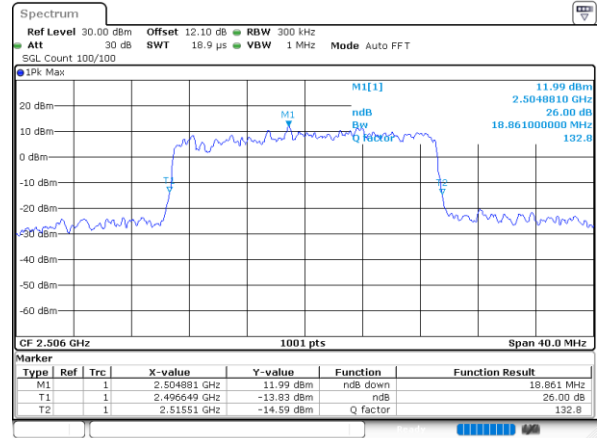
LTE Band 41

Lowest Channel / 15MHz / 64QAM



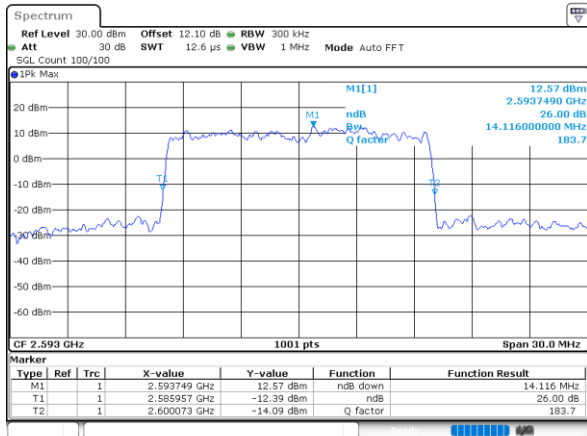
Date: 5,SEP,2020 00:05:08

Lowest Channel / 20MHz / 64QAM



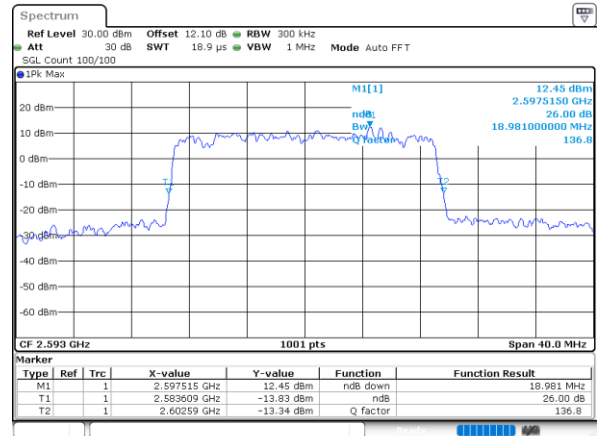
Date: 5,SEP,2020 00:06:17

Middle Channel / 15MHz / 64QAM



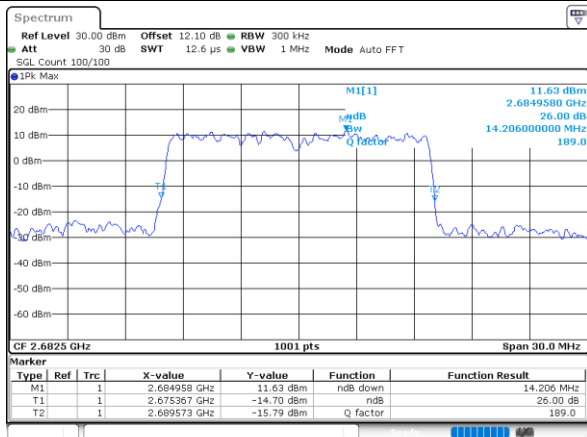
Date: 5,SEP,2020 00:05:30

Middle Channel / 20MHz / 64QAM



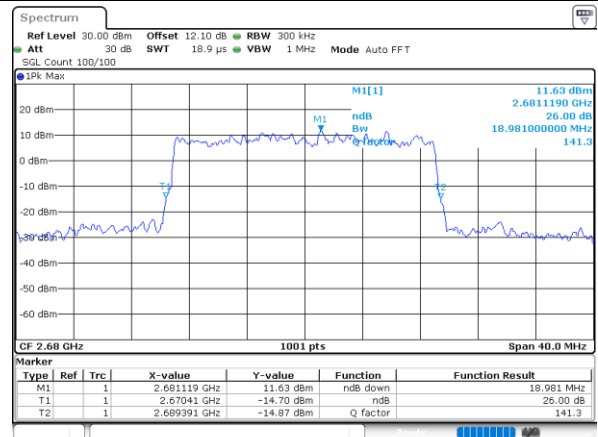
Date: 5,SEP,2020 00:06:40

Highest Channel / 15MHz / 64QAM



Date: 5,SEP,2020 00:05:53

Highest Channel / 20MHz / 64QAM



Date: 5,SEP,2020 00:07:03



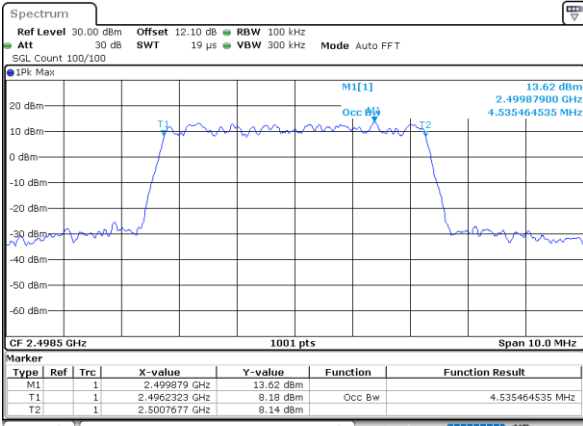
**Occupied Bandwidth**

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.54	4.50	8.95	9.05	13.37	13.49	17.78	17.82
Middle CH	-	-	-	-	4.48	4.48	9.05	9.03	13.40	13.46	17.78	17.90
Highest CH	-	-	-	-	4.52	4.49	9.01	9.03	13.43	13.40	17.74	17.78
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.52	-	9.03	-	13.34	-	17.82	-
Middle CH	-	-	-	-	4.50	-	8.99	-	13.49	-	17.70	-
Highest CH	-	-	-	-	4.49	-	9.05	-	13.43	-	17.78	-



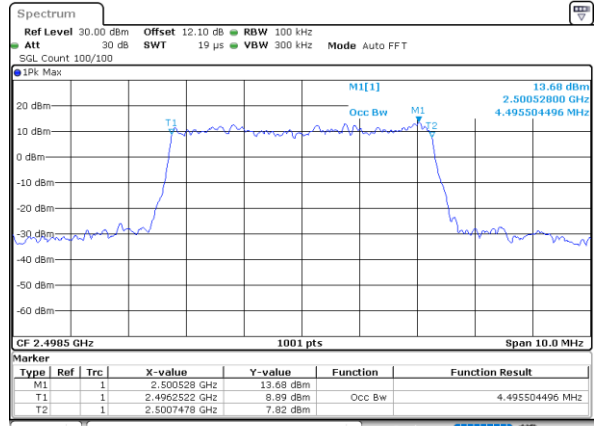
LTE Band 41

Lowest Channel / 5MHz / QPSK



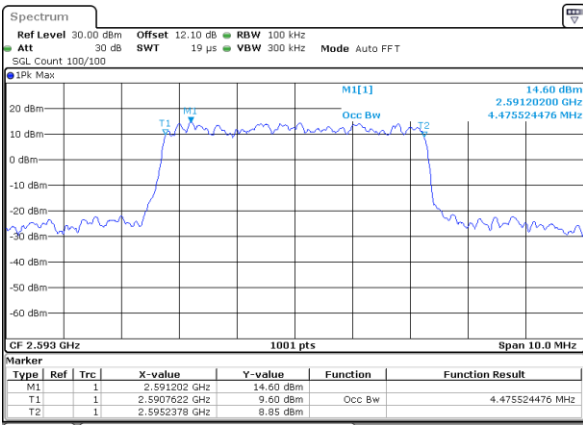
Date: 17\_AUG.2020 23:10:14

Lowest Channel / 5MHz / 16QAM



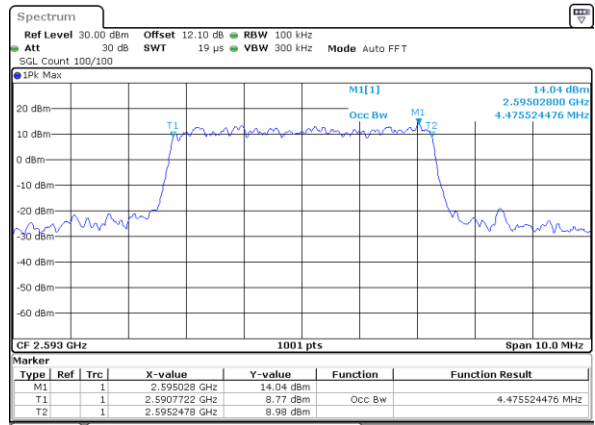
Date: 17\_AUG.2020 23:10:26

Middle Channel / 5MHz / QPSK



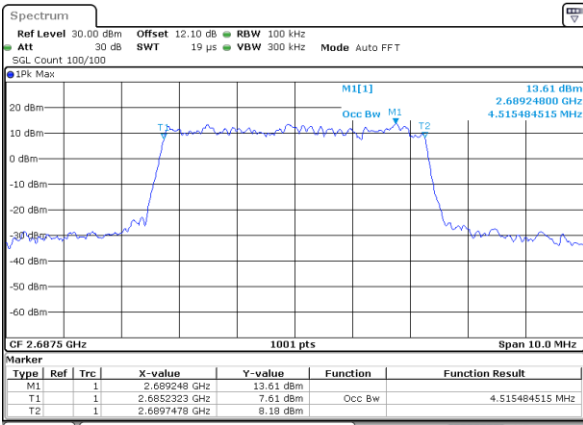
Date: 17\_AUG.2020 23:11:01

Middle Channel / 5MHz / 16QAM



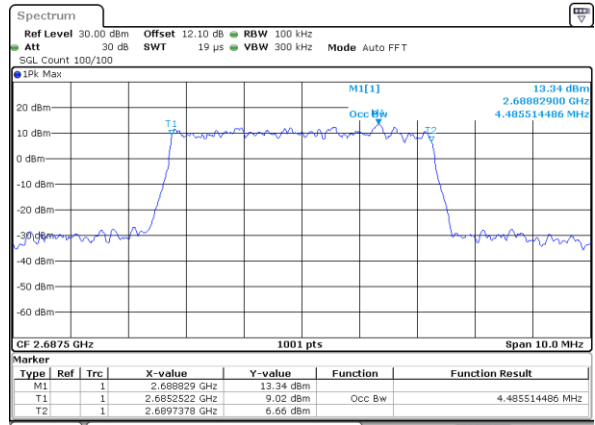
Date: 17\_AUG.2020 23:11:13

Highest Channel / 5MHz / QPSK



Date: 17\_AUG.2020 23:11:47

Highest Channel / 5MHz / 16QAM

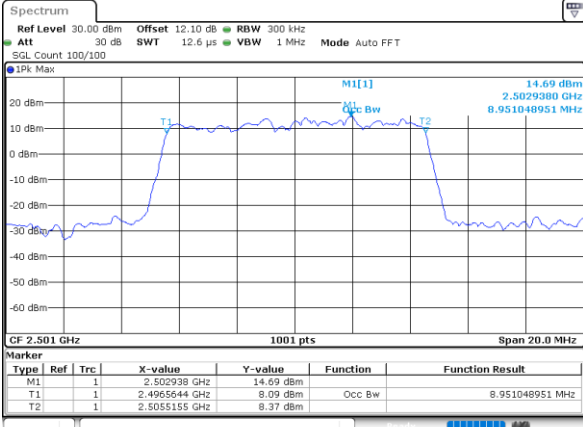


Date: 17\_AUG.2020 23:11:58



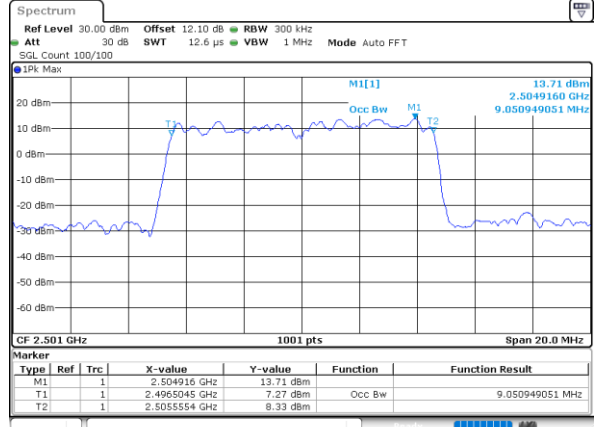
LTE Band 41

Lowest Channel / 10MHz / QPSK



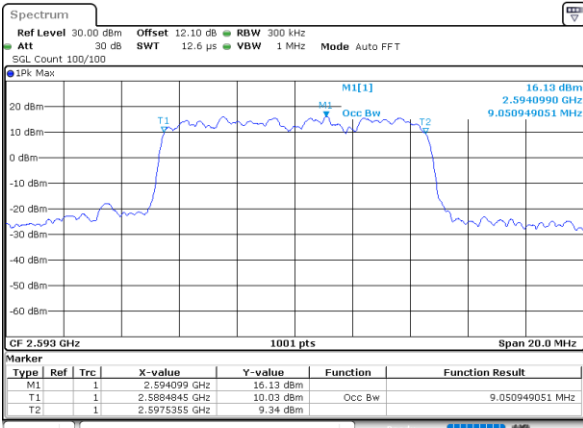
Date: 17\_AUG.2020 23:12:35

Lowest Channel / 10MHz / 16QAM



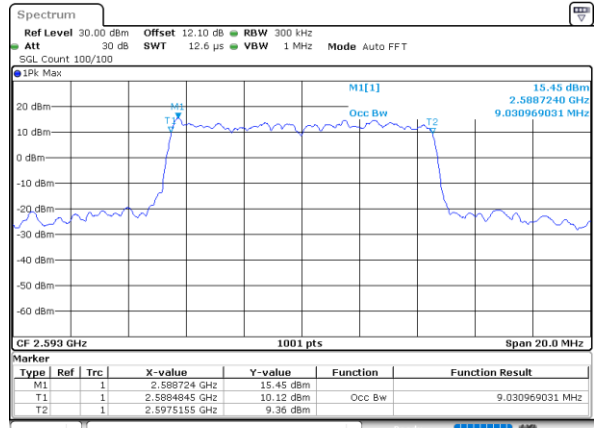
Date: 17\_AUG.2020 23:12:46

Middle Channel / 10MHz / QPSK



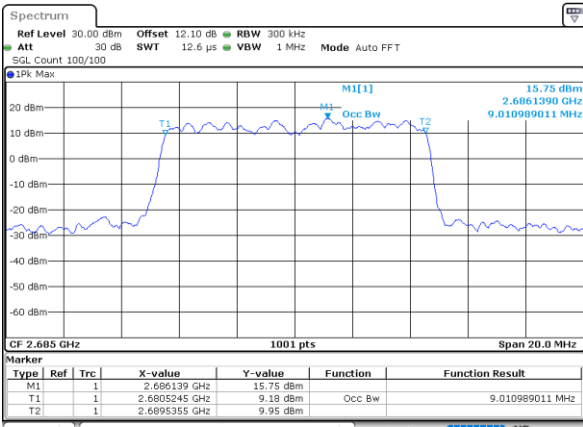
Date: 17\_AUG.2020 23:13:22

Middle Channel / 10MHz / 16QAM



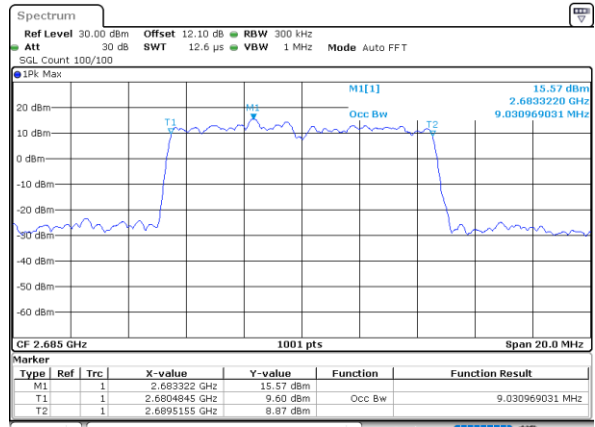
Date: 17\_AUG.2020 23:13:33

Highest Channel / 10MHz / QPSK



Date: 17\_AUG.2020 23:14:07

Highest Channel / 10MHz / 16QAM

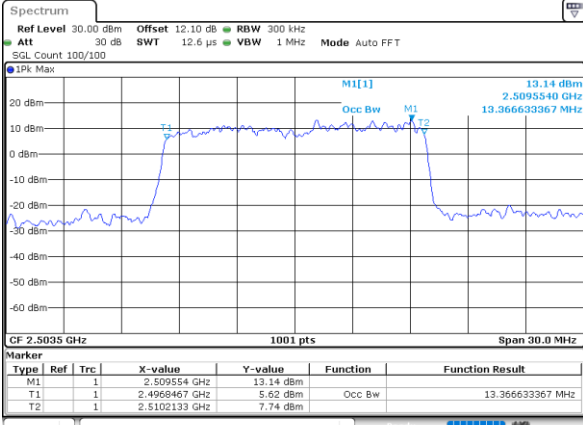


Date: 17\_AUG.2020 23:14:19



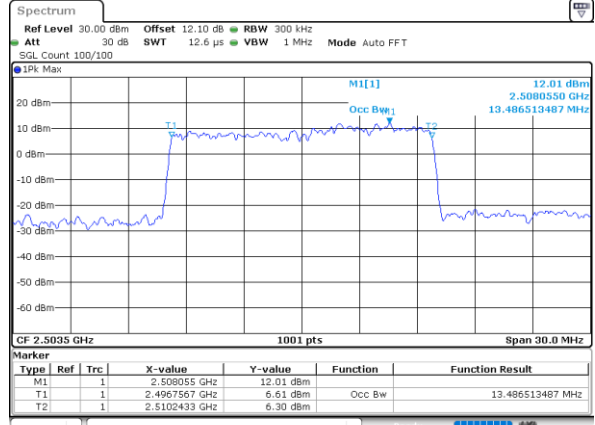
LTE Band 41

Lowest Channel / 15MHz / QPSK



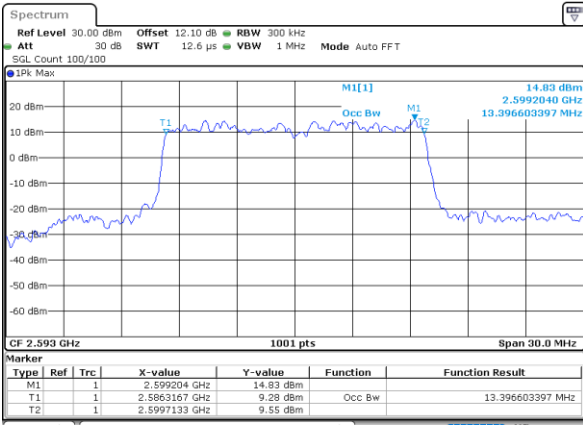
Date: 17\_AUG.2020 23:14:55

Lowest Channel / 15MHz / 16QAM



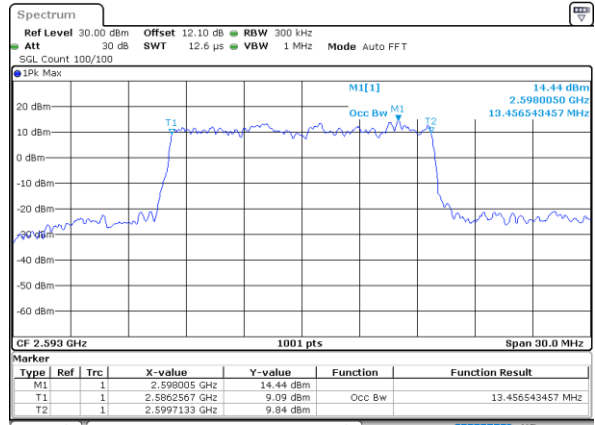
Date: 17\_AUG.2020 23:15:06

Middle Channel / 15MHz / QPSK



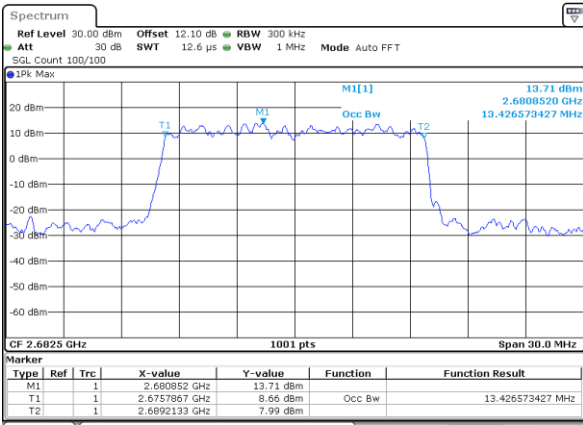
Date: 17\_AUG.2020 23:15:42

Middle Channel / 15MHz / 16QAM



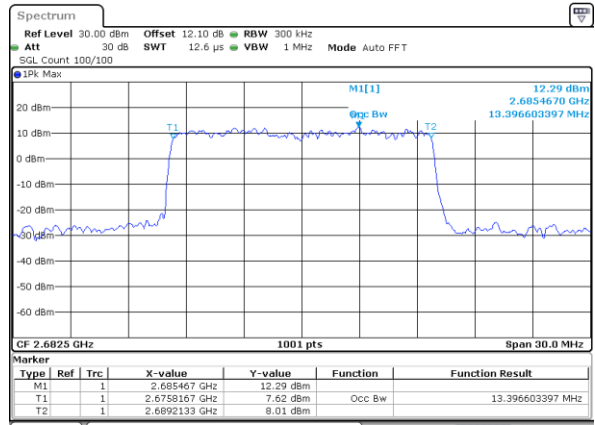
Date: 17\_AUG.2020 23:15:53

Highest Channel / 15MHz / QPSK



Date: 17\_AUG.2020 23:16:27

Highest Channel / 15MHz / 16QAM



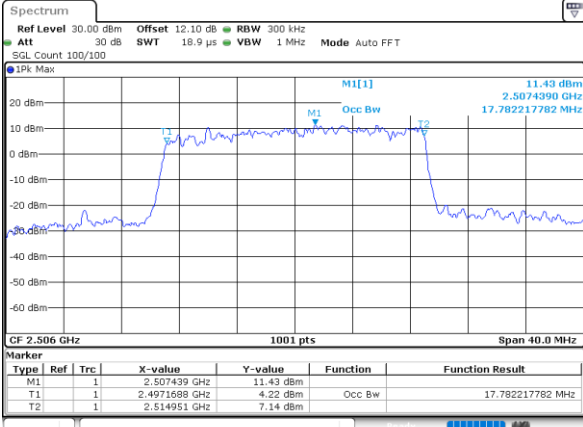
Date: 17\_AUG.2020 23:16:39





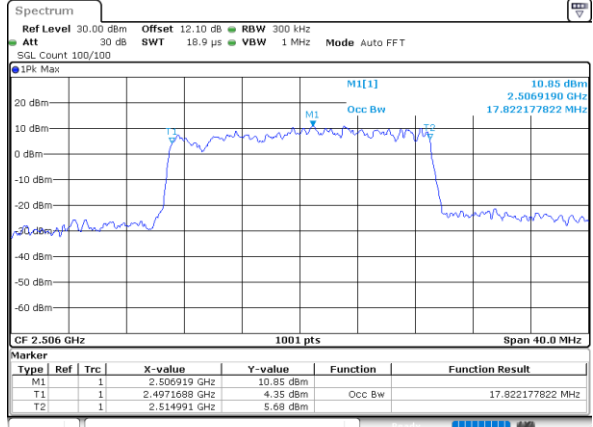
LTE Band 41

Lowest Channel / 20MHz / QPSK



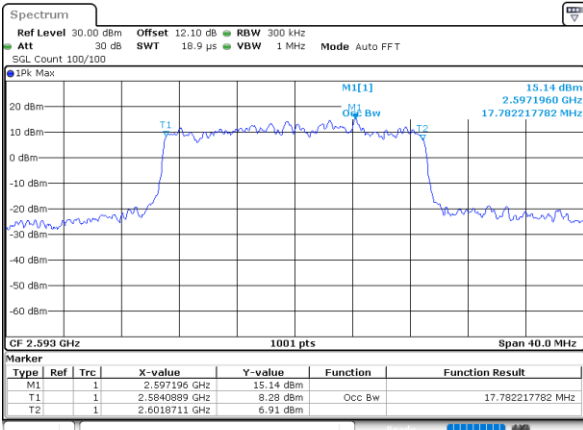
Date: 17\_AUG.2020 23:17:15

Lowest Channel / 20MHz / 16QAM



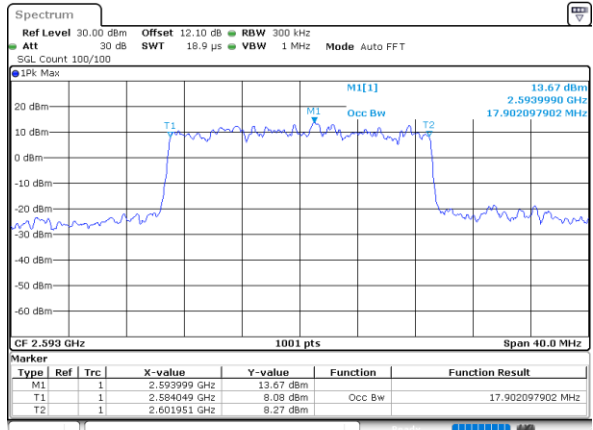
Date: 17\_AUG.2020 23:17:27

Middle Channel / 20MHz / QPSK



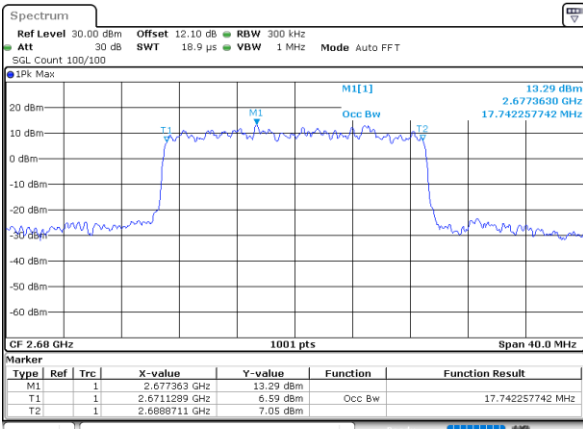
Date: 17\_AUG.2020 23:18:02

Middle Channel / 20MHz / 16QAM



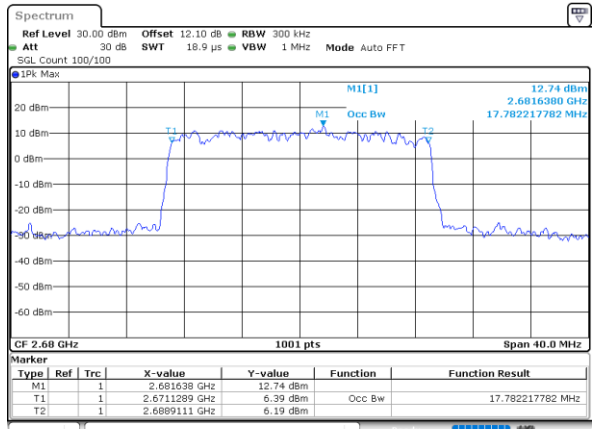
Date: 17\_AUG.2020 23:18:13

Highest Channel / 20MHz / QPSK



Date: 17\_AUG.2020 23:18:47

Highest Channel / 20MHz / 16QAM

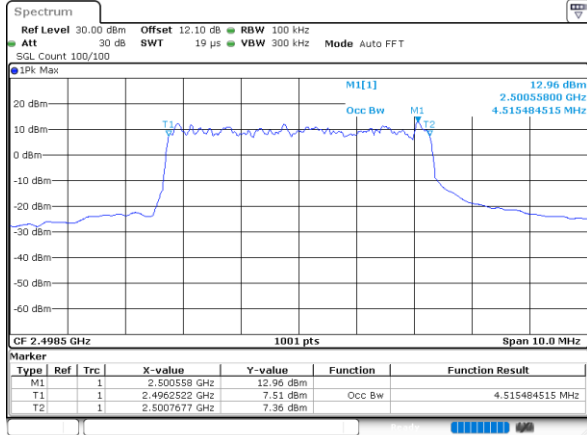


Date: 17\_AUG.2020 23:18:59



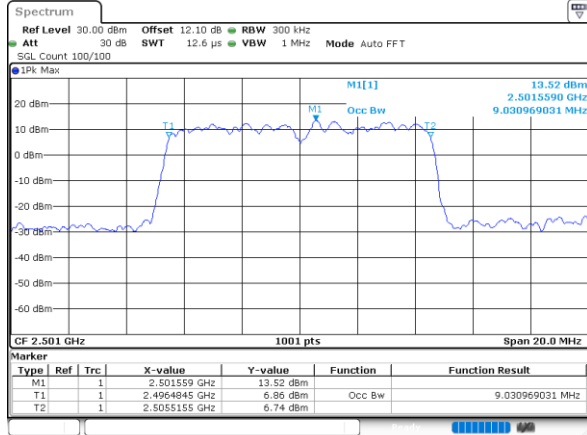
LTE Band 41

Lowest Channel / 5MHz / 64QAM



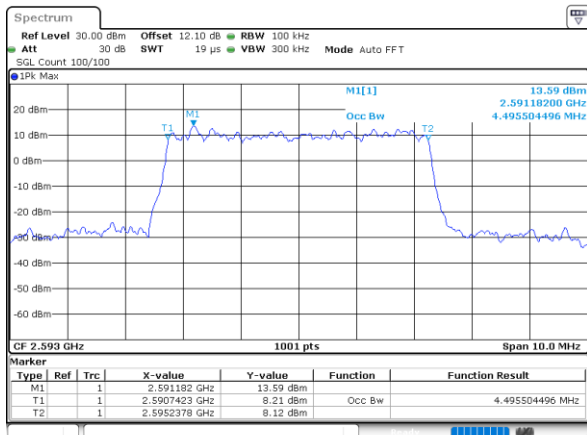
Date: 5,SEP,2020 00:02:136

Lowest Channel / 10MHz / 64QAM



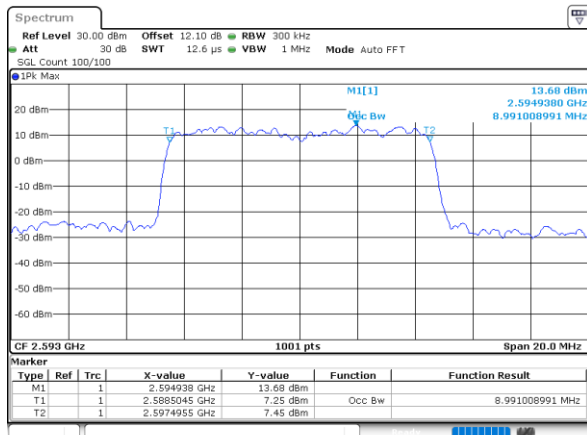
Date: 5,SEP,2020 00:03:146

Middle Channel / 5MHz / 64QAM



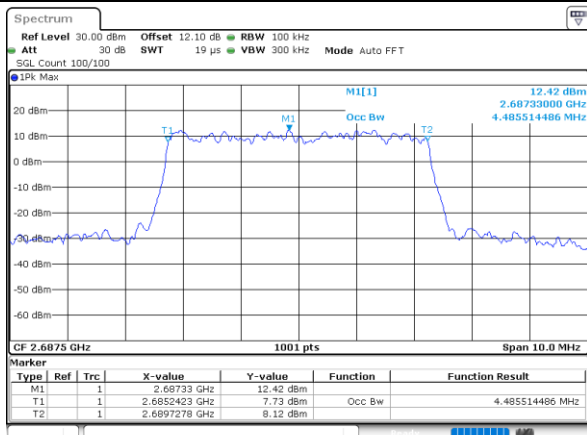
Date: 5,SEP,2020 00:02:159

Middle Channel / 10MHz / 64QAM



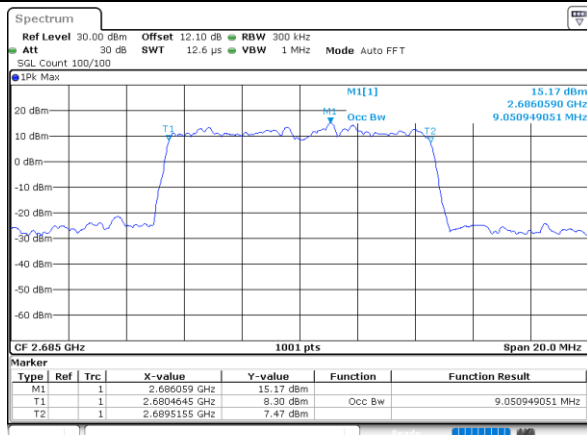
Date: 5,SEP,2020 00:04:09

Highest Channel / 5MHz / 64QAM



Date: 5,SEP,2020 00:03:222

Highest Channel / 10MHz / 64QAM



Date: 5,SEP,2020 00:04:32