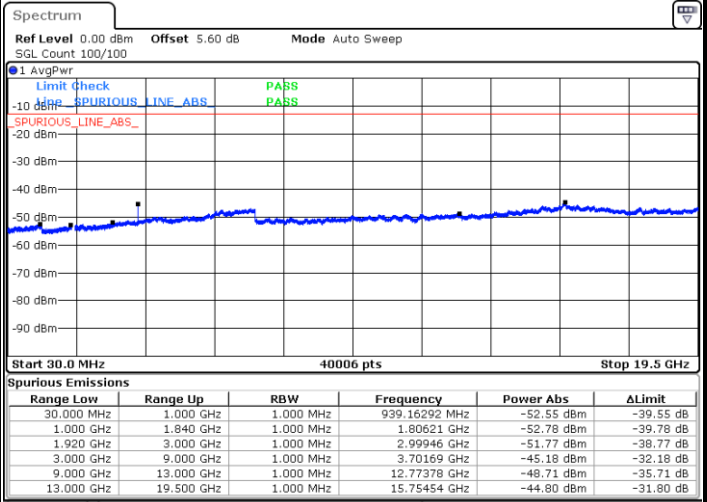
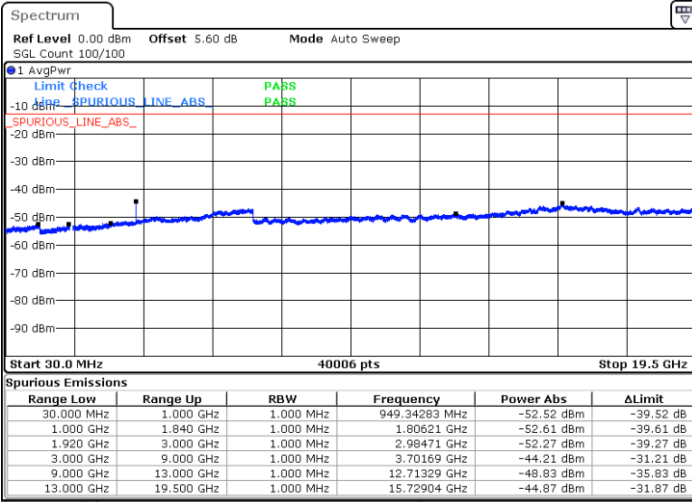




LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

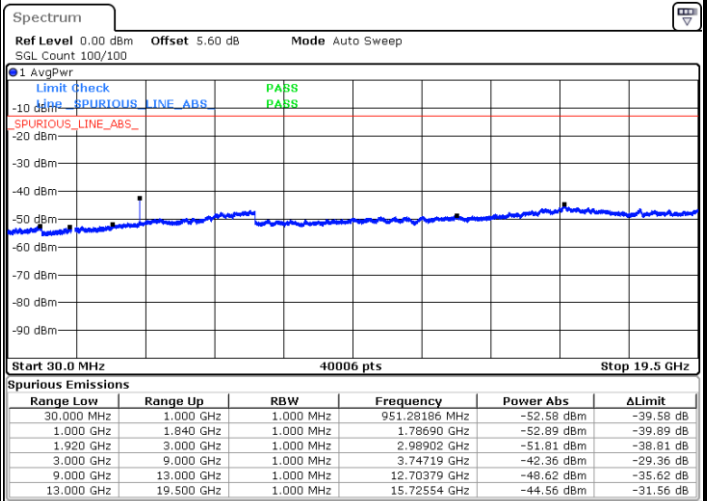
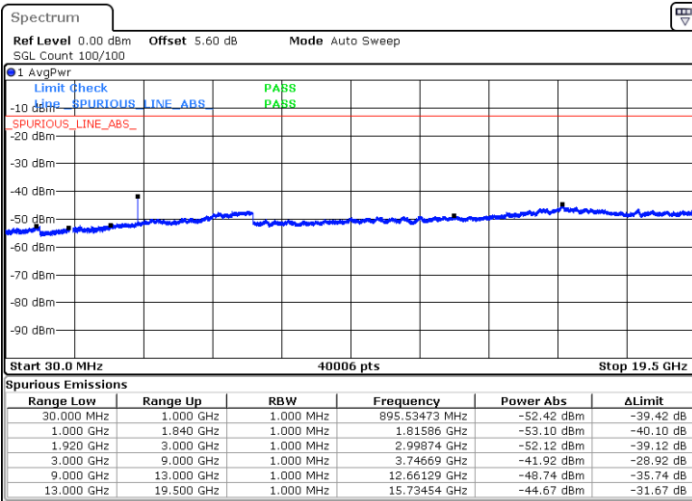


Date: 9.JUL.2020 23:13:01

Date: 9.JUL.2020 23:13:57

Middle Channel / QPSK

Middle Channel / 16QAM



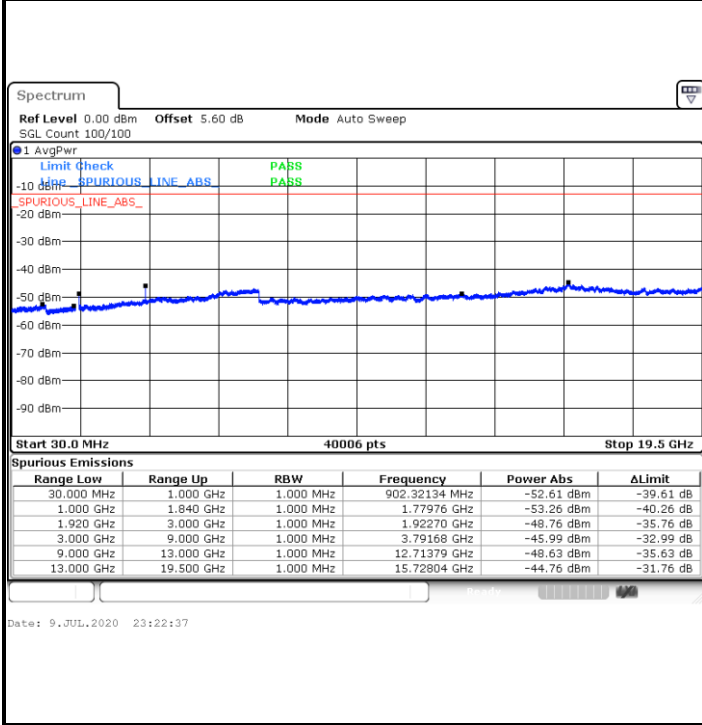
Date: 9.JUL.2020 23:15:33

Date: 9.JUL.2020 23:16:30

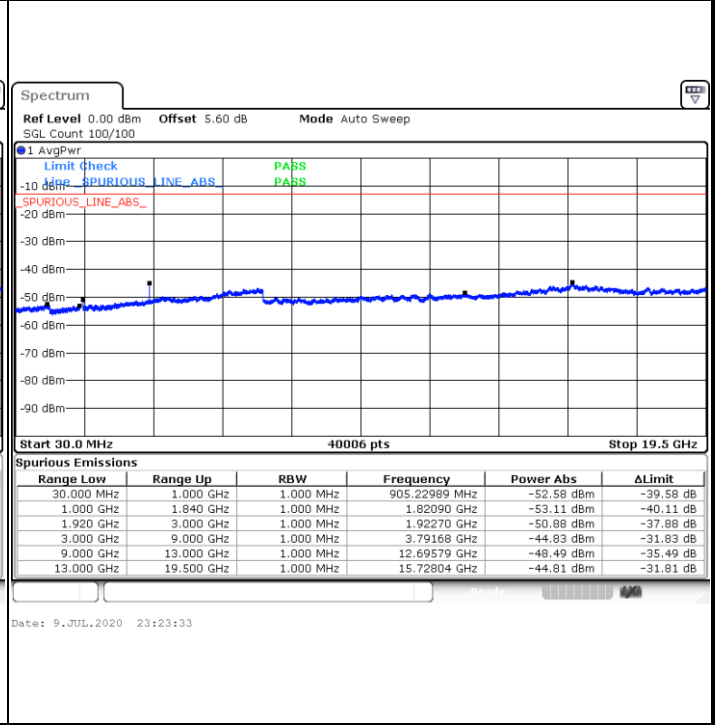


LTE Band 2 / 15MHz

Highest Channel / QPSK

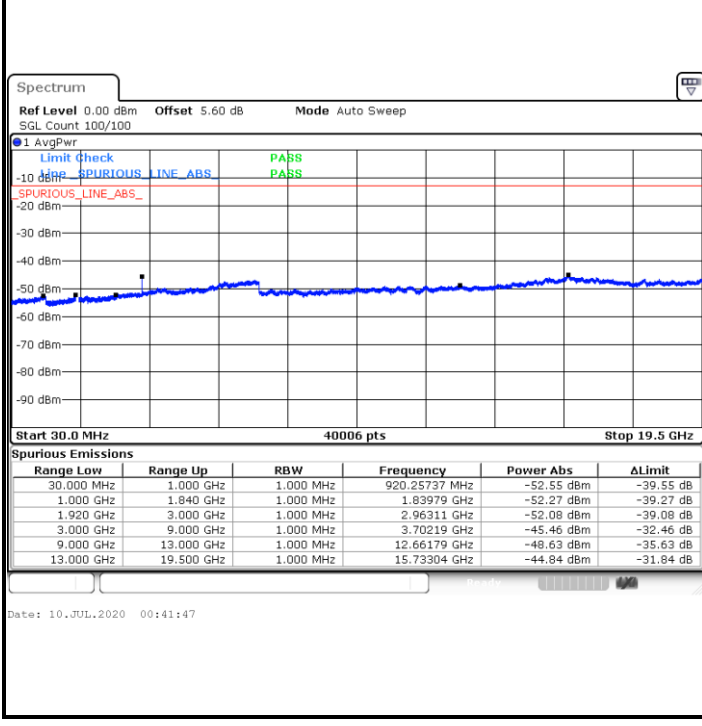


Highest Channel / 16QAM

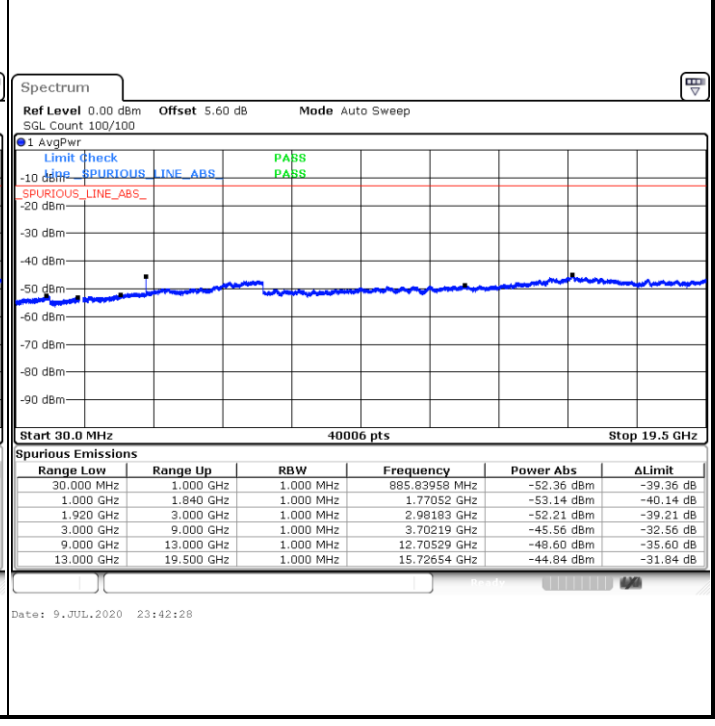


LTE Band 2 / 20MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

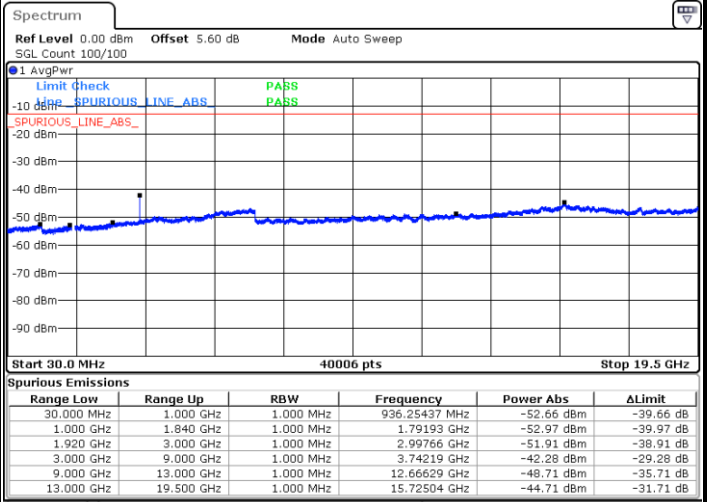
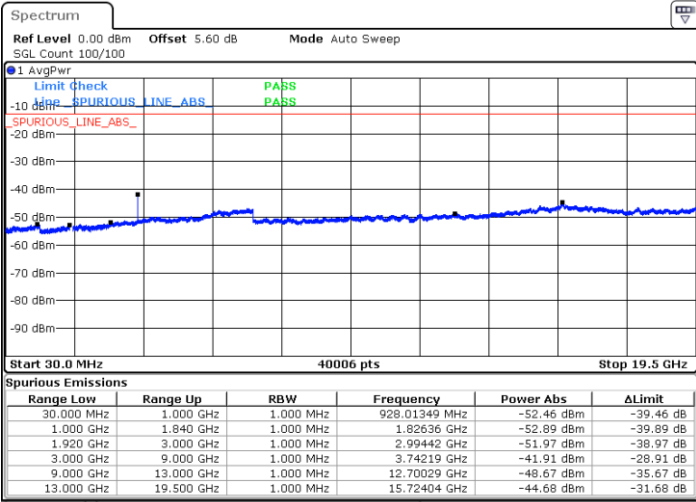




LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

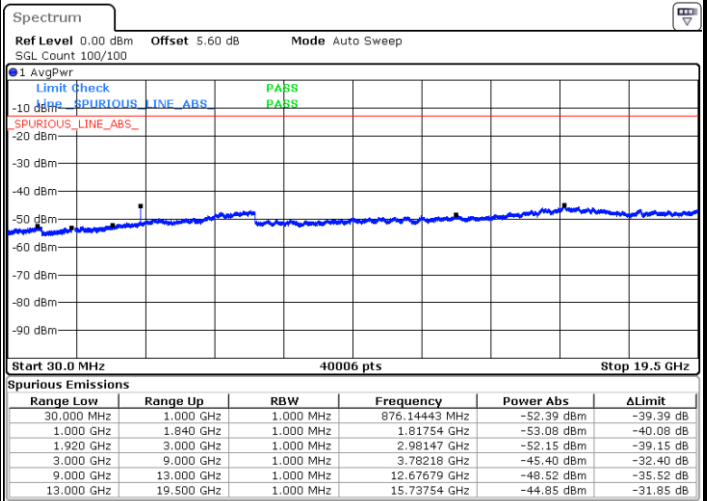
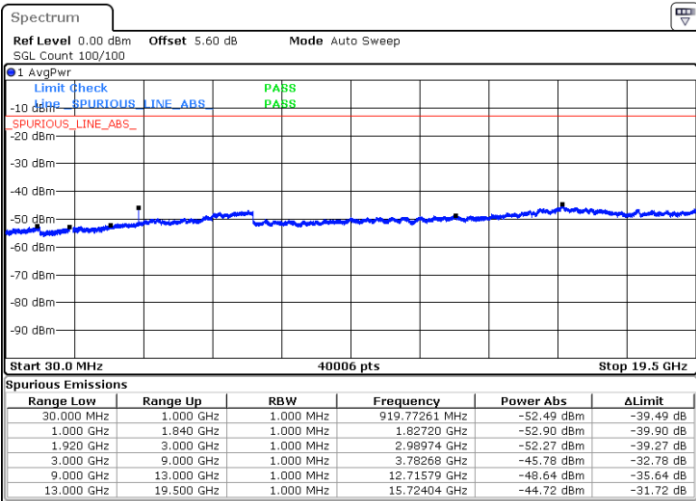


Date: 10.JUL.2020 00:59:19

Date: 9.JUL.2020 23:33:17

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.JUL.2020 01:05:37

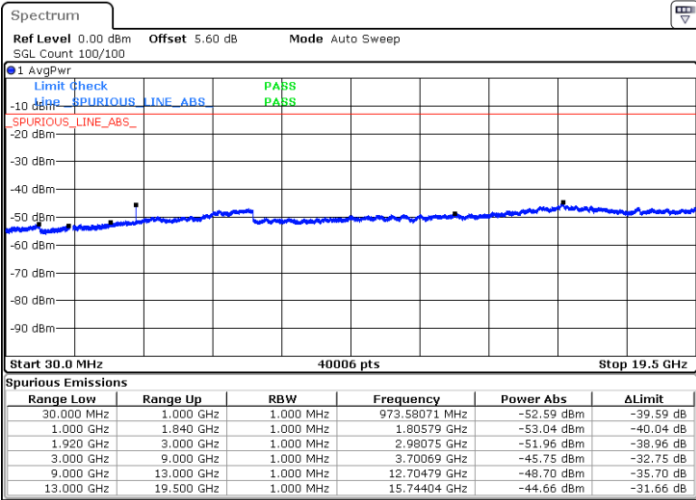
Date: 10.JUL.2020 01:04:38



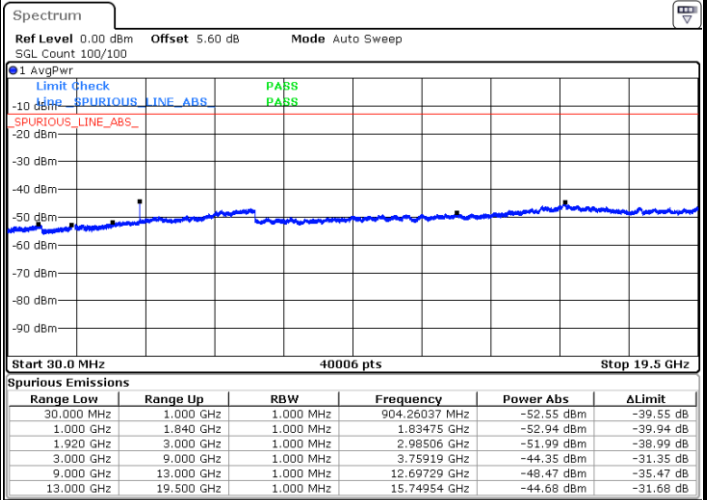
LTE Band 2 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

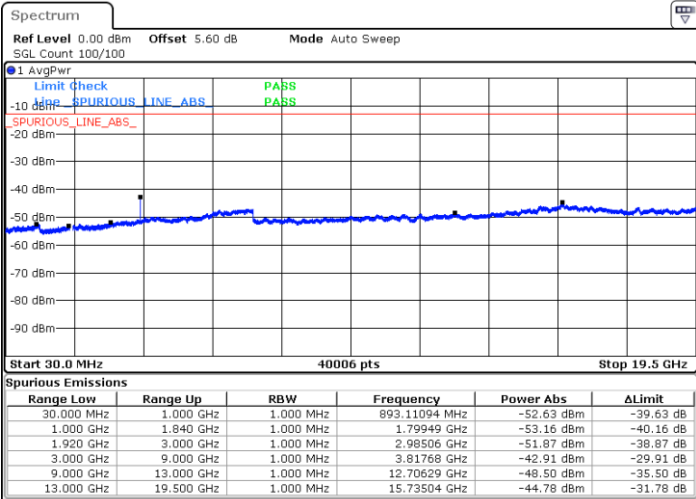


Date: 10.JUL.2020 02:30:19



Date: 10.JUL.2020 02:31:11

Highest Channel / 64QAM

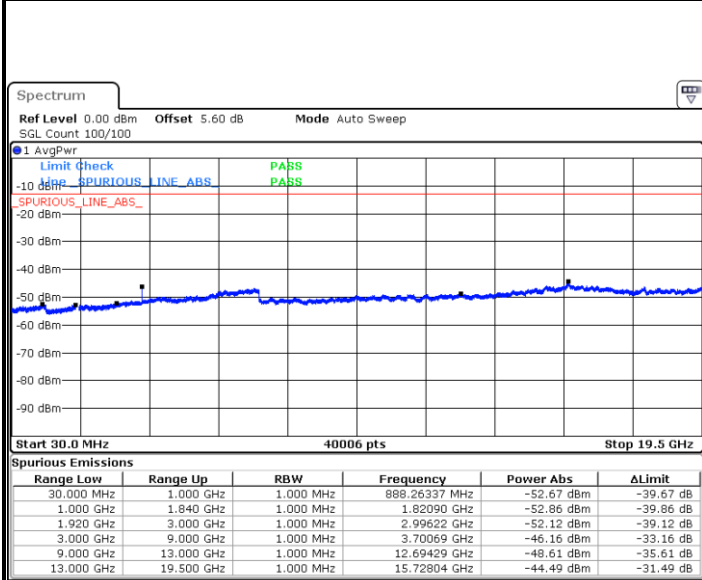


Date: 10.JUL.2020 02:32:04



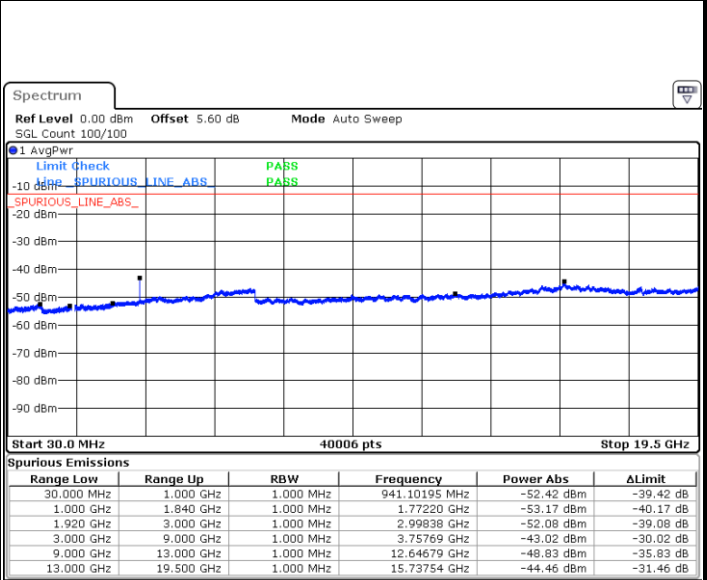
LTE Band 2 / 3MHz

Lowest Channel / 64QAM



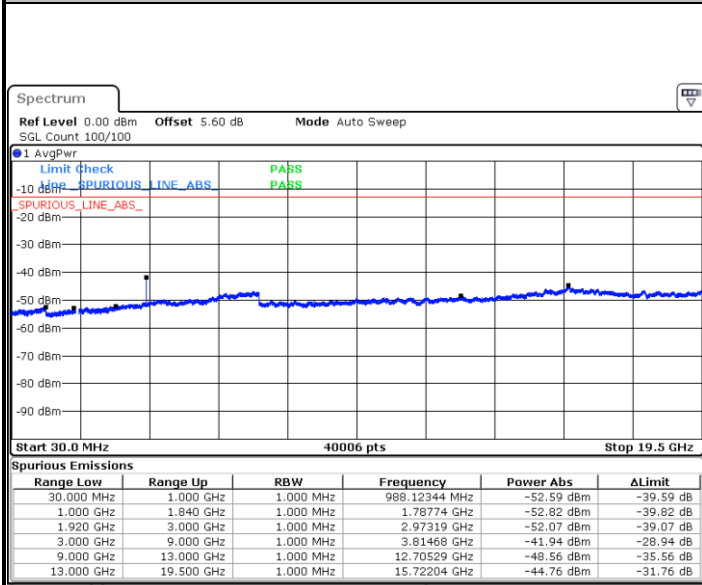
Date: 10.JUL.2020 02:36:08

Middle Channel / 64QAM

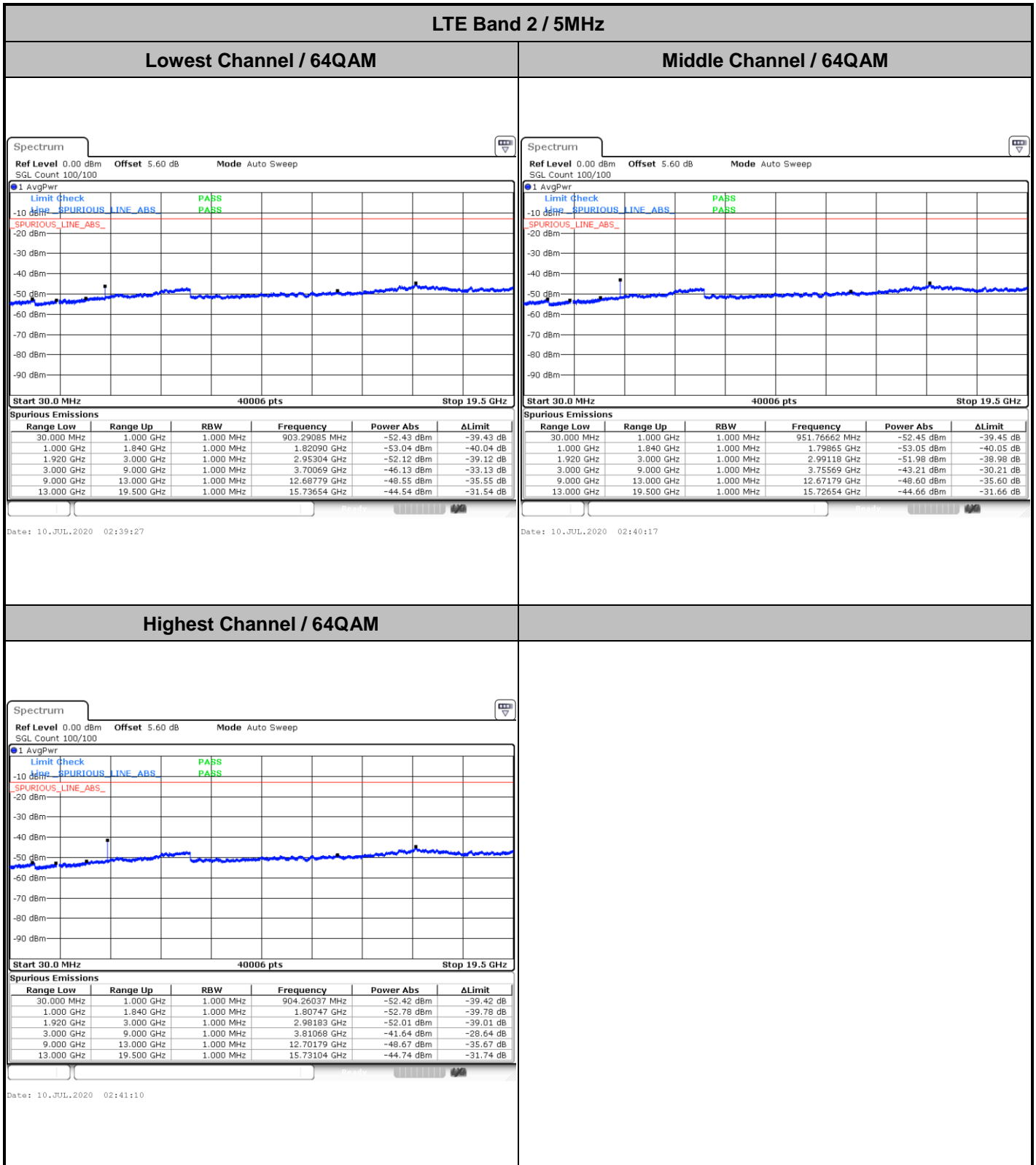


Date: 10.JUL.2020 02:37:03

Highest Channel / 64QAM



Date: 10.JUL.2020 02:37:53

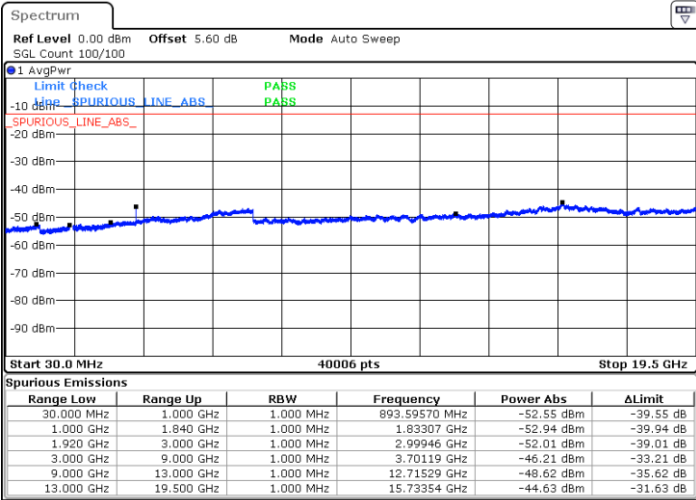




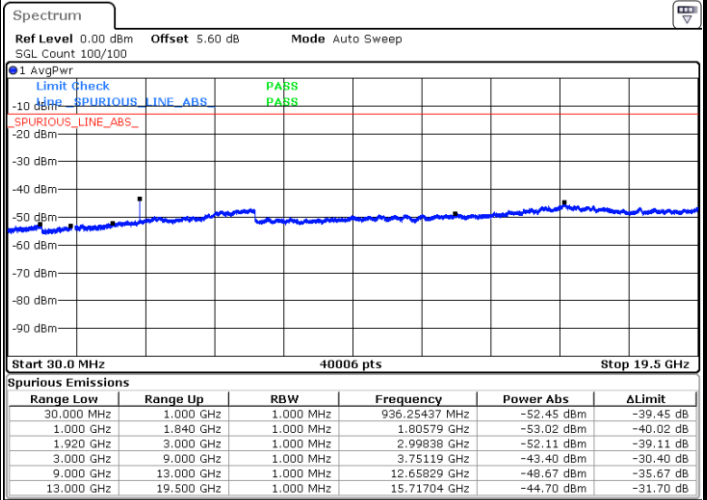
LTE Band 2 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

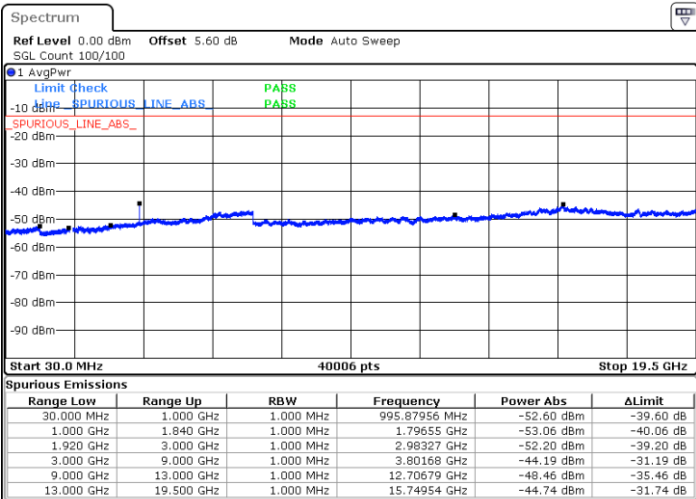


Date: 10.JUL.2020 02:42:36



Date: 10.JUL.2020 02:43:34

Highest Channel / 64QAM



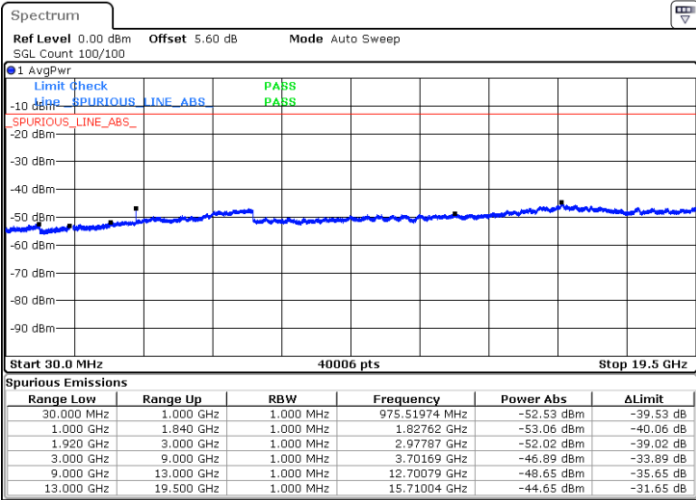
Date: 10.JUL.2020 02:44:49



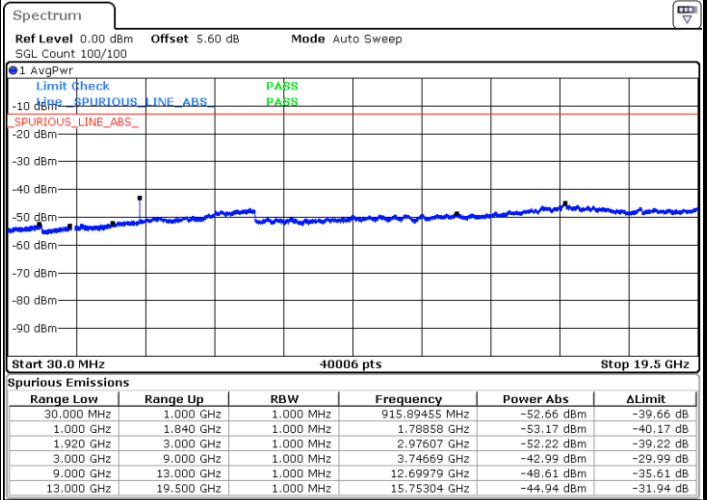
LTE Band 2 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

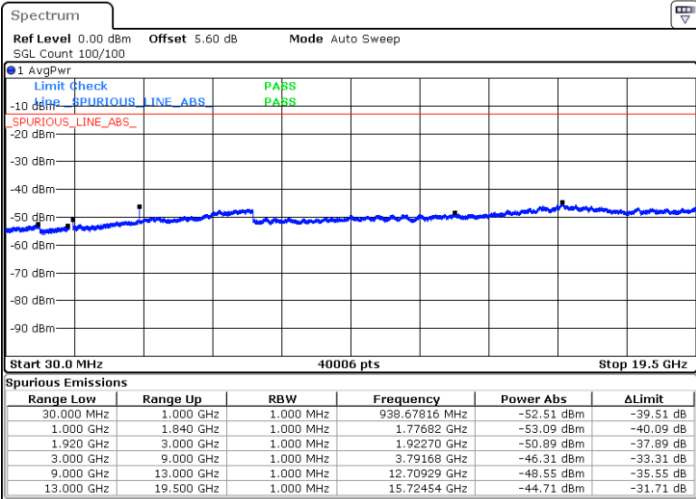


Date: 10.JUL.2020 02:46:38



Date: 10.JUL.2020 02:47:28

Highest Channel / 64QAM



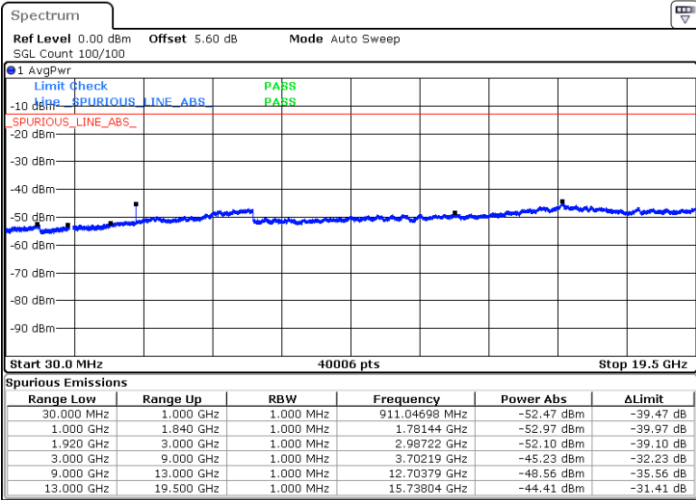
Date: 10.JUL.2020 02:48:20



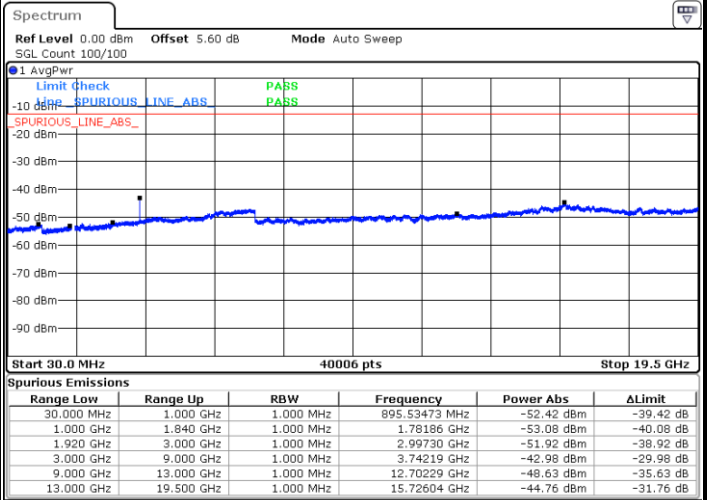
LTE Band 2 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

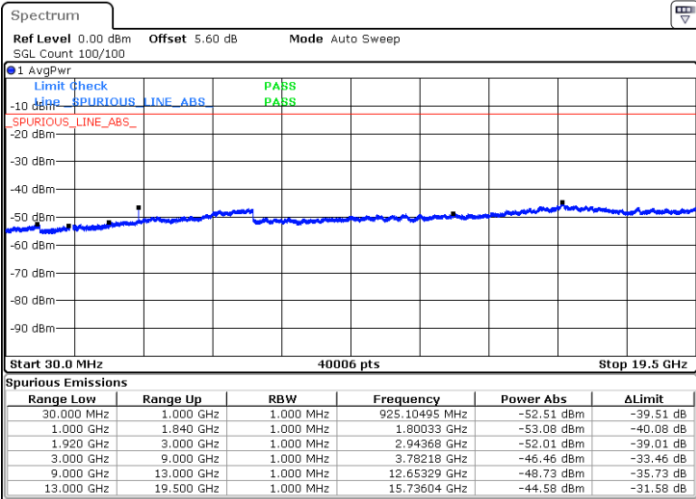


Date: 10.JUL.2020 00:55:25



Date: 10.JUL.2020 01:02:02

Highest Channel / 64QAM



Date: 10.JUL.2020 01:03:41



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	0.0020	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

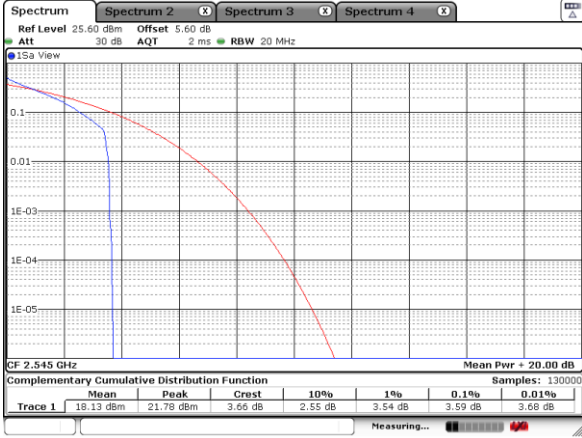
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.58	5.45	6.00	PASS
Middle CH	4.87	5.65	5.62	6.55	
Highest CH	3.77	4.75	5.54	5.97	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	6.70	6.58	PASS		
Middle CH	6.32	6.78			
Highest CH	6.70	6.67			



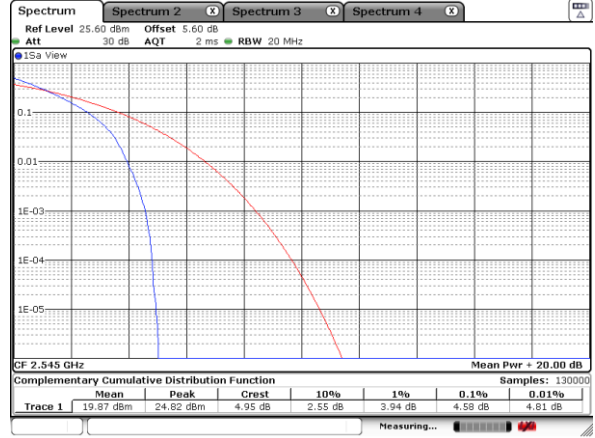
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



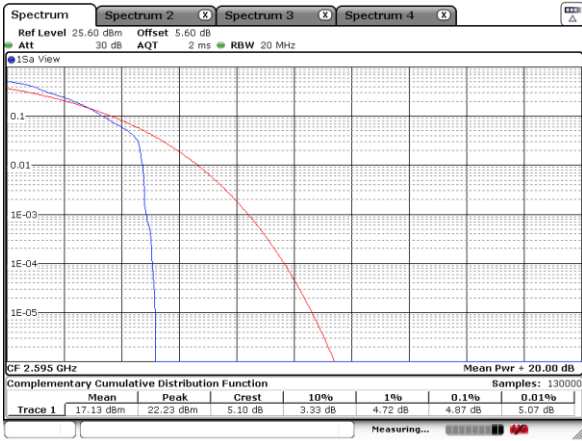
Date: 18 JUL 2020 02:32:02

Lowest Channel / Full RB



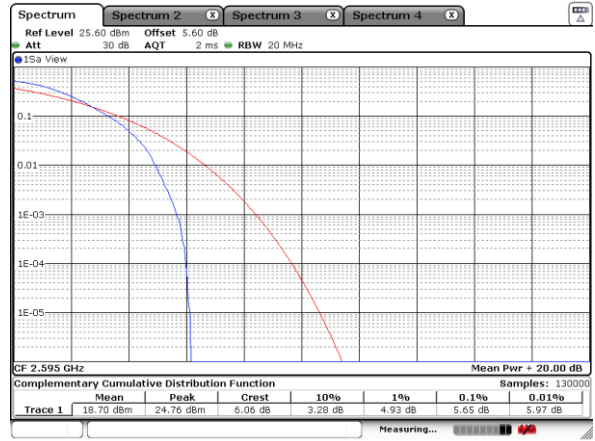
Date: 18 JUL 2020 02:29:30

Middle Channel / 1RB



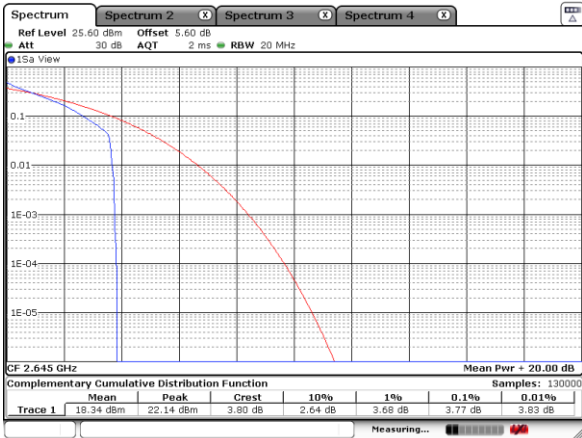
Date: 18 JUL 2020 02:32:29

Middle Channel / Full RB



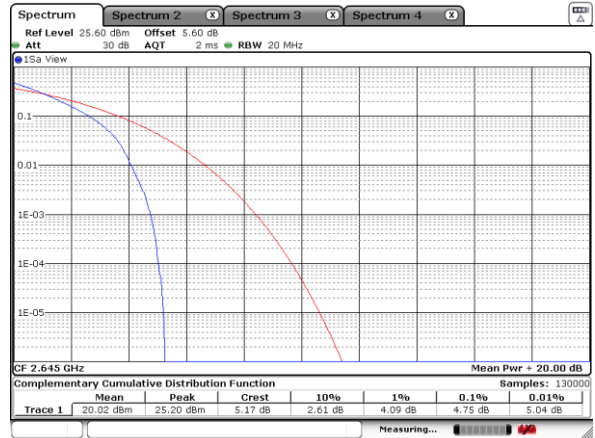
Date: 18 JUL 2020 02:34:19

Highest Channel / 1RB



Date: 18 JUL 2020 02:36:43

Highest Channel / Full RB

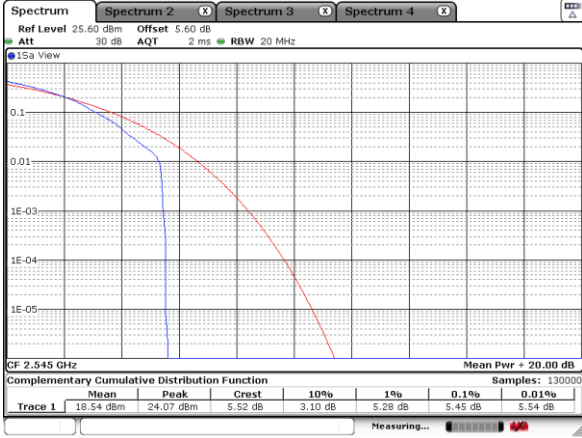


Date: 18 JUL 2020 02:35:05



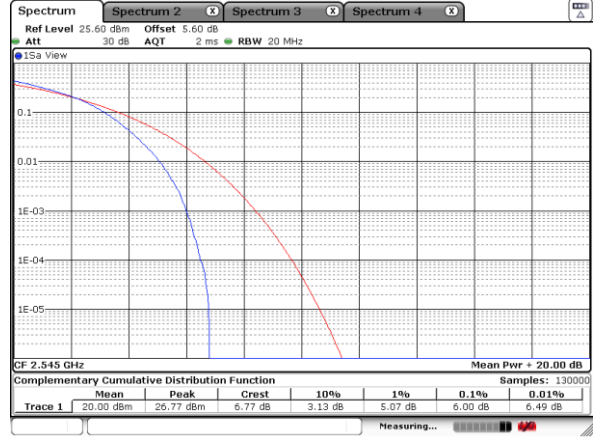
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



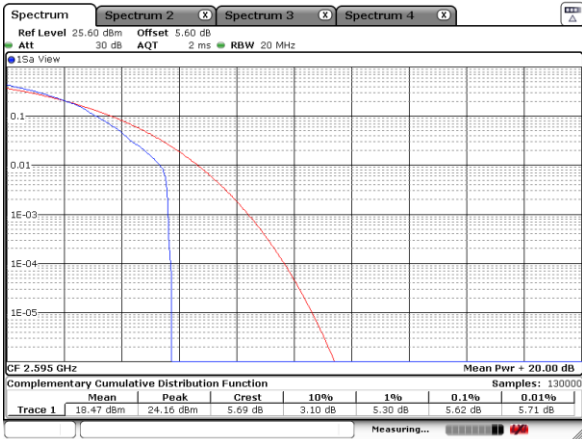
Date: 18 JUL 2020 02:31:46

Lowest Channel / Full RB



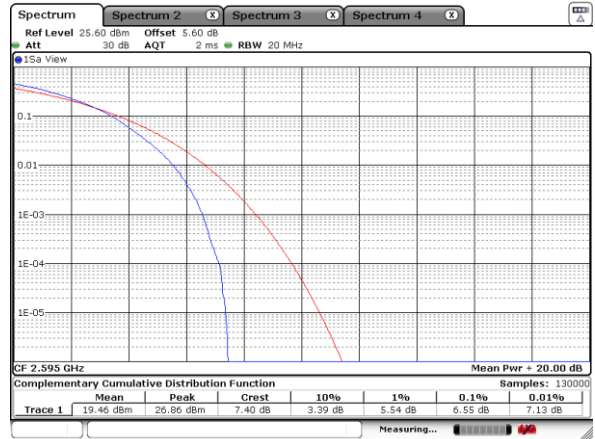
Date: 18 JUL 2020 02:30:34

Middle Channel / 1RB



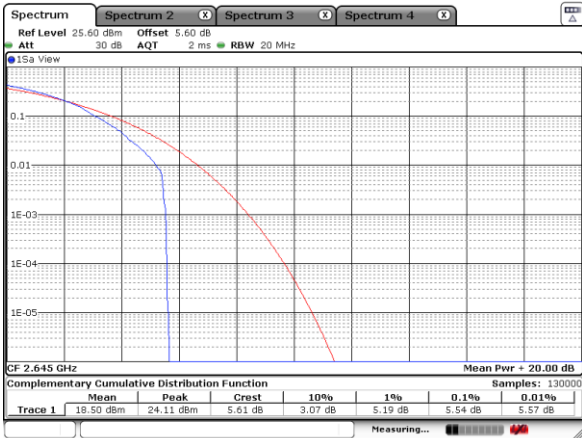
Date: 18 JUL 2020 02:33:06

Middle Channel / Full RB



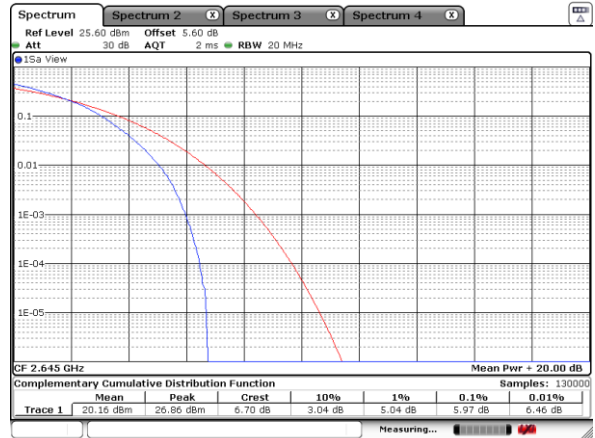
Date: 18 JUL 2020 02:34:03

Highest Channel / 1RB



Date: 18 JUL 2020 02:36:27

Highest Channel / Full RB

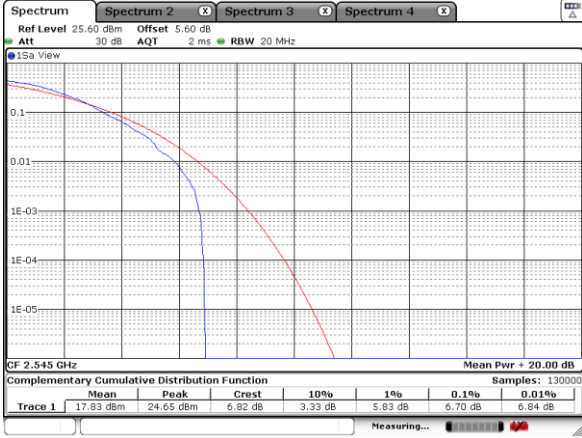


Date: 18 JUL 2020 02:35:24



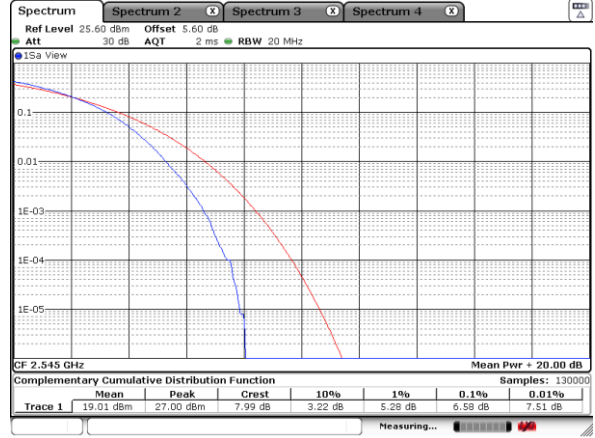
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



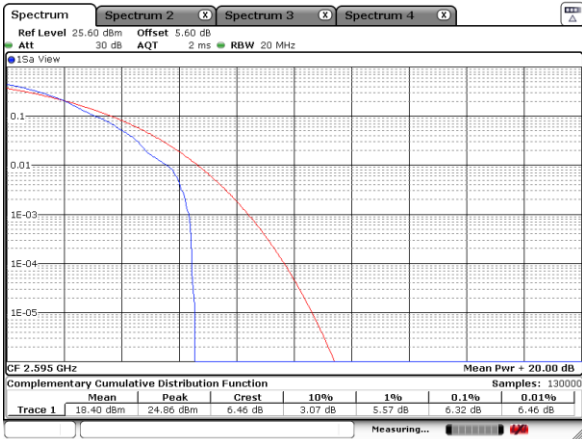
Date: 18 JUL 2020 02:31:28

Lowest Channel / Full RB



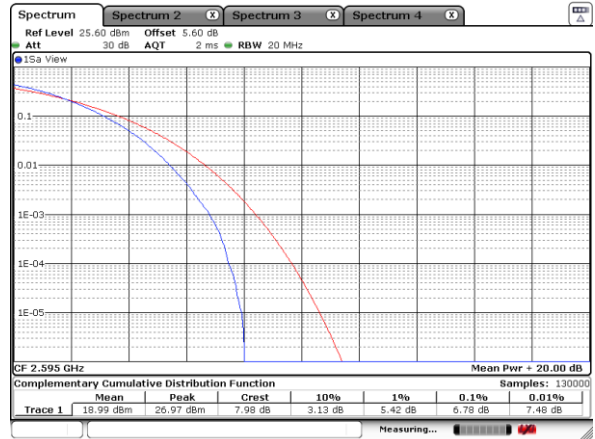
Date: 18 JUL 2020 02:31:06

Middle Channel / 1RB



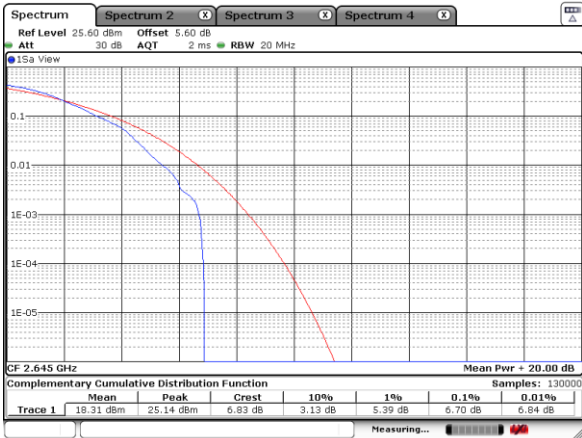
Date: 18 JUL 2020 02:33:22

Middle Channel / Full RB



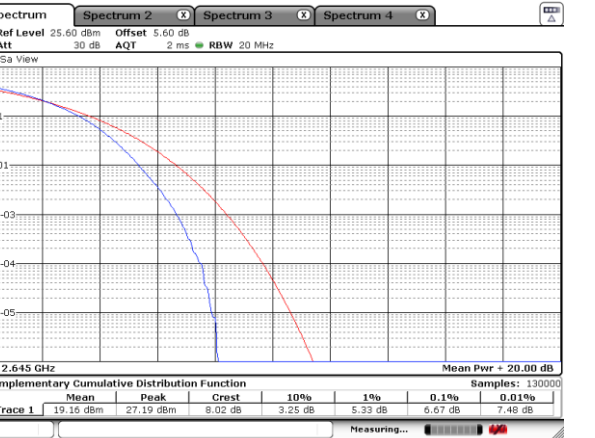
Date: 18 JUL 2020 02:33:47

Highest Channel / 1RB



Date: 18 JUL 2020 02:36:07

Highest Channel / Full RB



Date: 18 JUL 2020 02:35:46



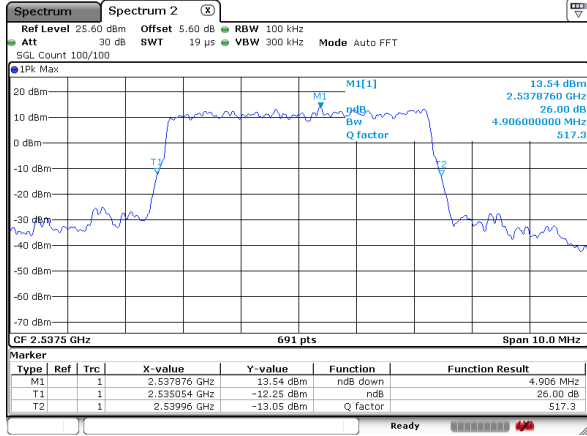
26dB Bandwidth

Mode												
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.91	4.82	9.78	9.75	14.33	14.46	19.16	18.70	4.75	9.06	14.20	18.76
Middle CH	4.79	4.88	9.81	9.67	14.67	14.15	19.05	18.87	4.91	9.03	14.28	18.87
Highest CH	4.86	4.96	9.61	9.81	14.63	14.54	18.93	18.81	4.96	9.06	14.37	18.13



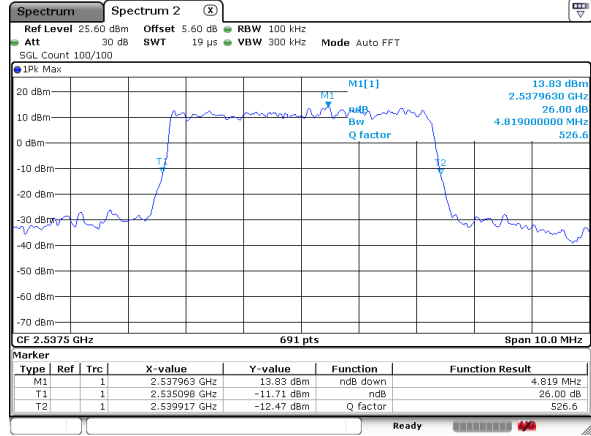
LTE Band 41

Lowest Channel / 5MHz / QPSK



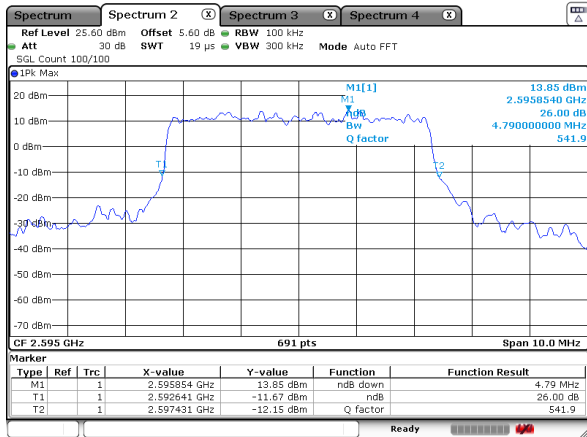
Date: 17_JUL_2020 22:45:09

Lowest Channel / 5MHz / 16QAM



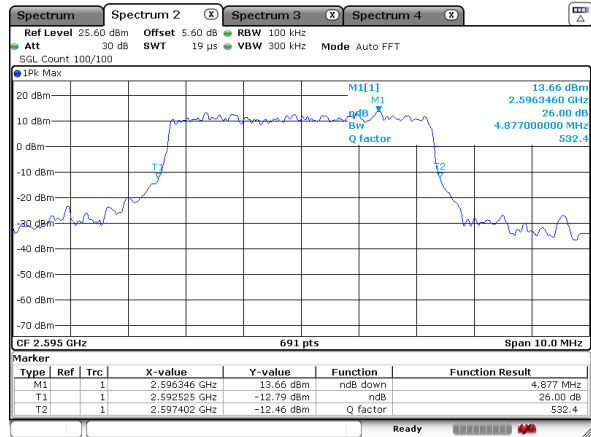
Date: 17_JUL_2020 22:44:53

Middle Channel / 5MHz / QPSK



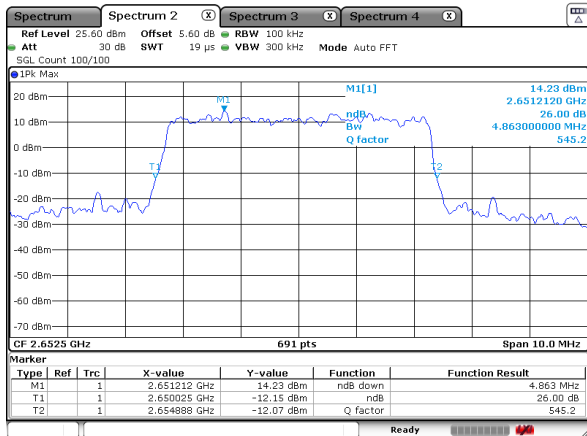
Date: 17_JUL_2020 23:04:00

Middle Channel / 5MHz / 16QAM



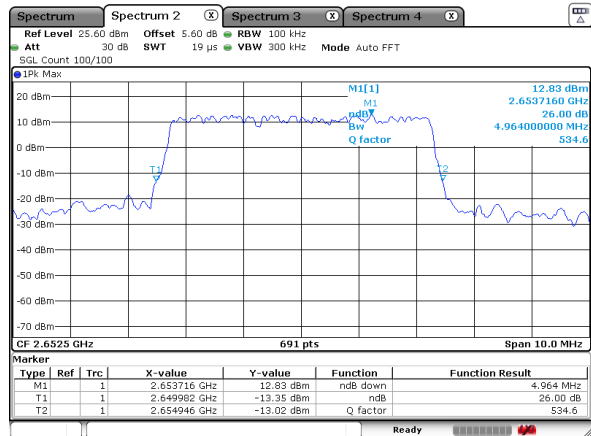
Date: 17_JUL_2020 23:04:01

Highest Channel / 5MHz / QPSK



Date: 17_JUL_2020 23:16:47

Highest Channel / 5MHz / 16QAM

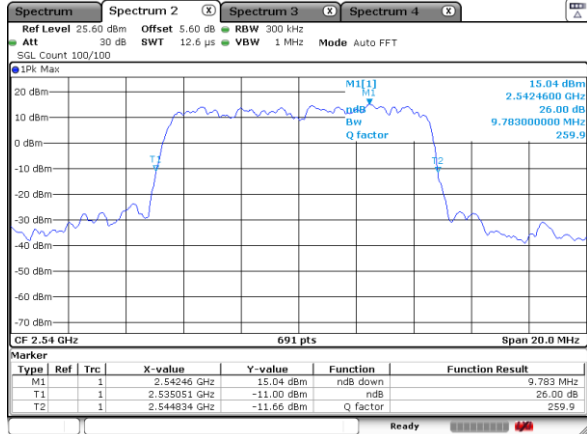


Date: 17_JUL_2020 23:17:05



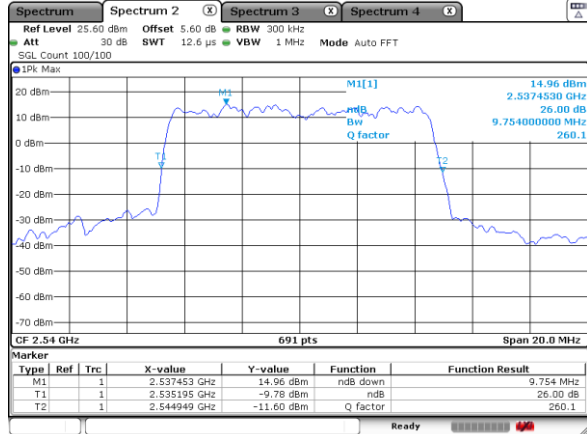
LTE Band 41

Lowest Channel / 10MHz / QPSK



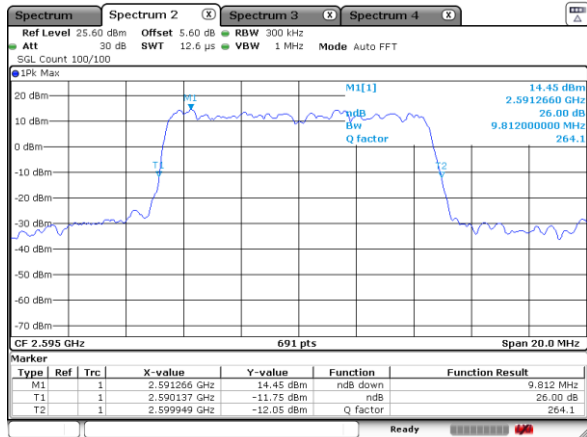
Date: 18 JUL 2020 00:23:01

Lowest Channel / 10MHz / 16QAM



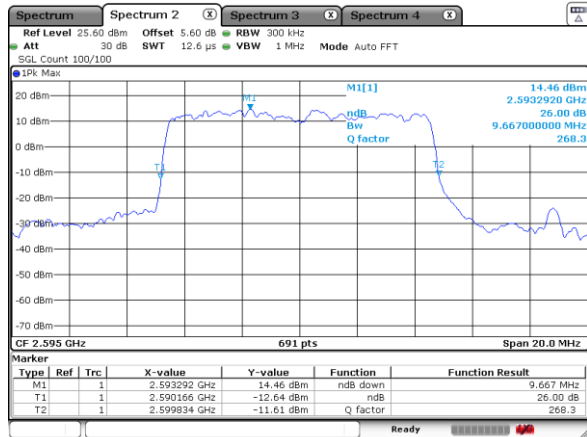
Date: 18 JUL 2020 00:23:24

Middle Channel / 10MHz / QPSK



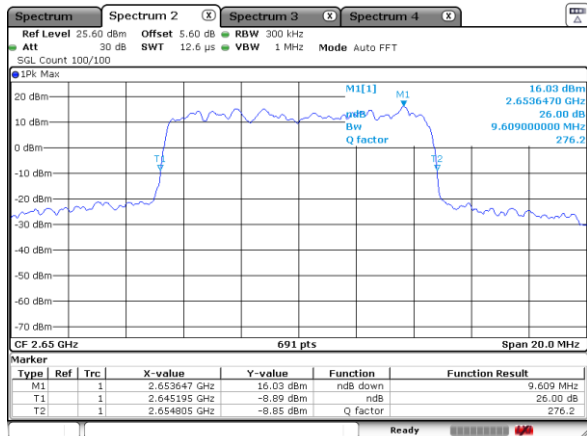
Date: 18 JUL 2020 00:24:25

Middle Channel / 10MHz / 16QAM



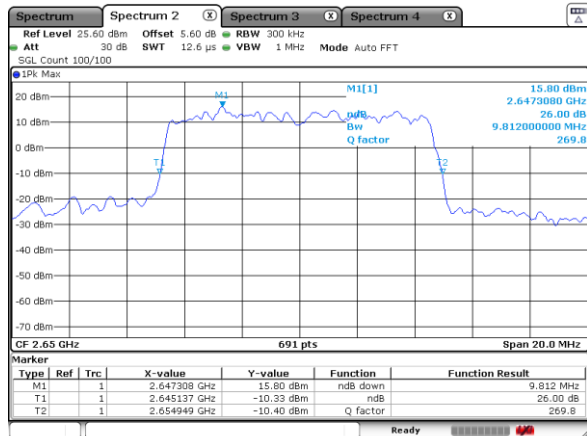
Date: 18 JUL 2020 00:24:11

Highest Channel / 10MHz / QPSK



Date: 18 JUL 2020 00:26:53

Highest Channel / 10MHz / 16QAM

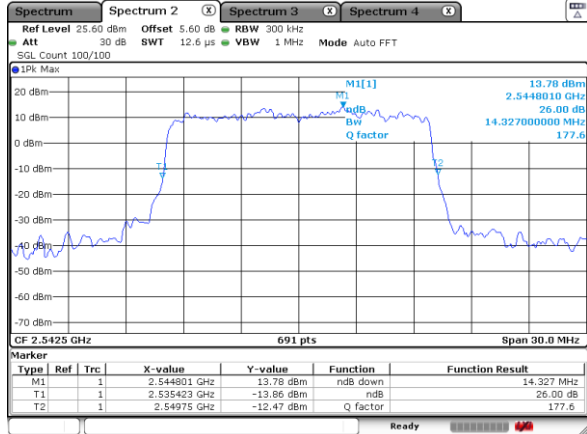


Date: 18 JUL 2020 00:27:08



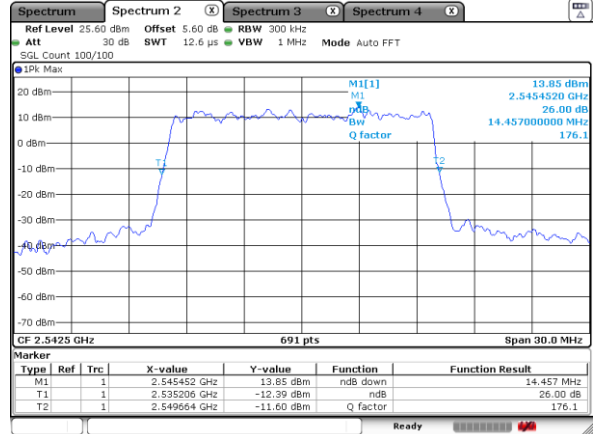
LTE Band 41

Lowest Channel / 15MHz / QPSK



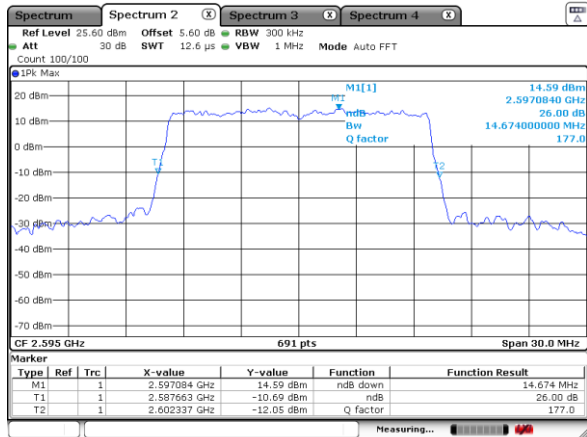
Date: 18 JUL 2020 00:30:03

Lowest Channel / 15MHz / 16QAM



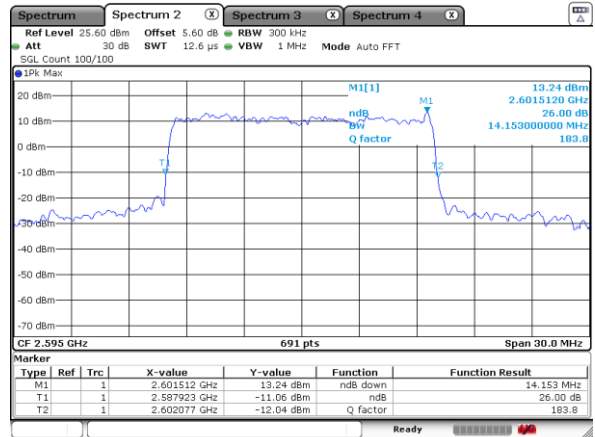
Date: 18 JUL 2020 00:30:18

Middle Channel / 15MHz / QPSK



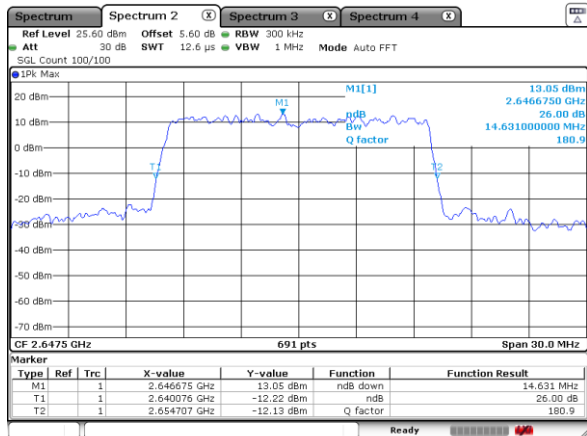
Date: 18 JUL 2020 00:41:00

Middle Channel / 15MHz / 16QAM



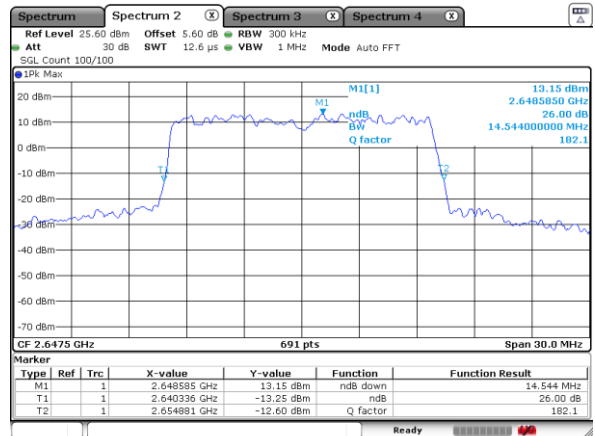
Date: 18 JUL 2020 00:39:18

Highest Channel / 15MHz / QPSK



Date: 18 JUL 2020 00:49:50

Highest Channel / 15MHz / 16QAM

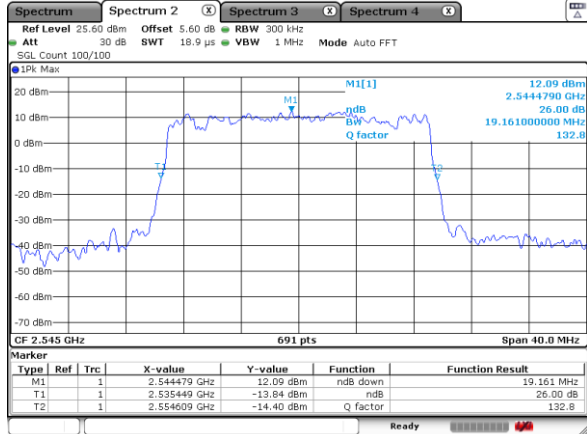


Date: 18 JUL 2020 00:50:15



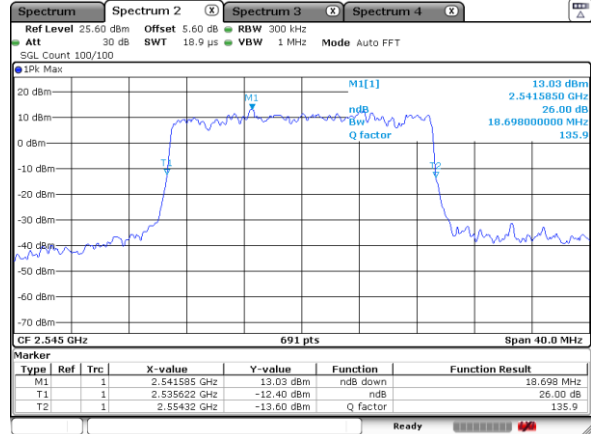
LTE Band 41

Lowest Channel / 20MHz / QPSK



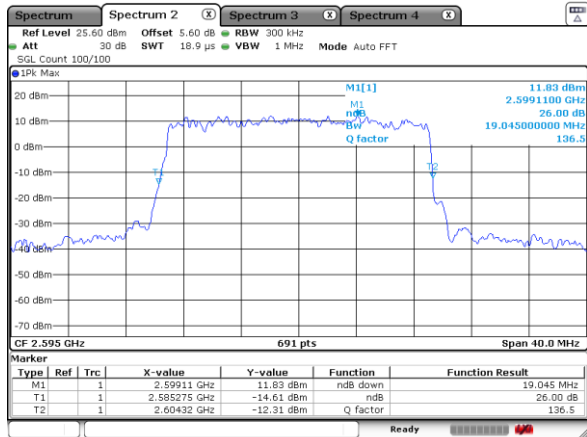
Date: 18 JUL 2020 00:56:22

Lowest Channel / 20MHz / 16QAM



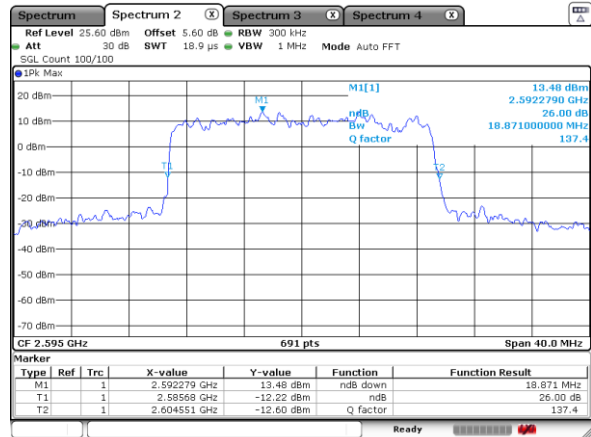
Date: 18 JUL 2020 00:56:38

Middle Channel / 20MHz / QPSK



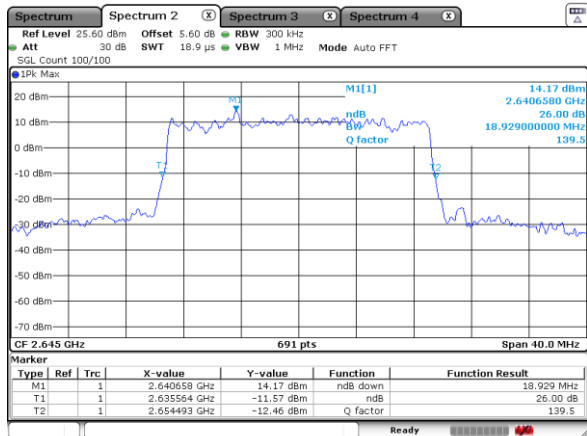
Date: 18 JUL 2020 01:05:59

Middle Channel / 20MHz / 16QAM



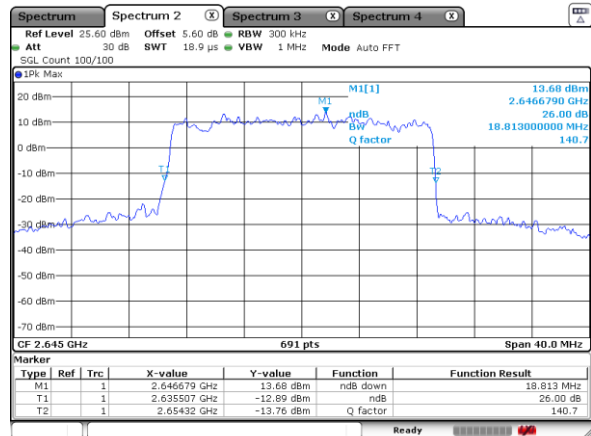
Date: 18 JUL 2020 01:05:47

Highest Channel / 20MHz / QPSK



Date: 18 JUL 2020 02:18:39

Highest Channel / 20MHz / 16QAM

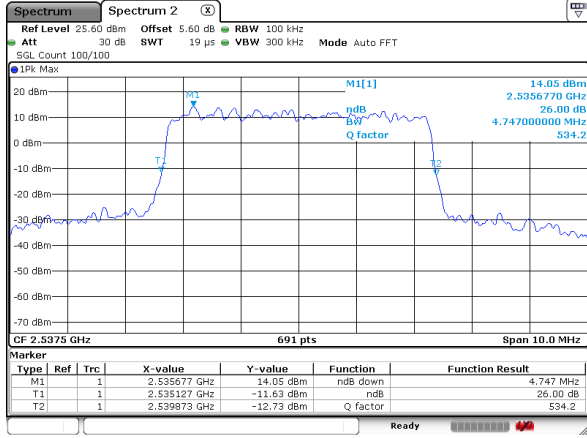


Date: 18 JUL 2020 02:18:57



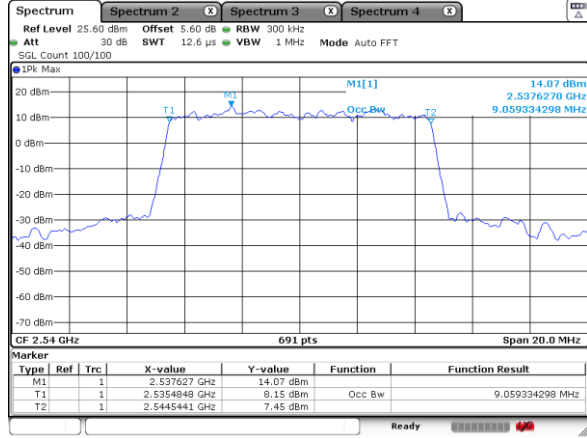
LTE Band 41

Lowest Channel / 5MHz / 64QAM



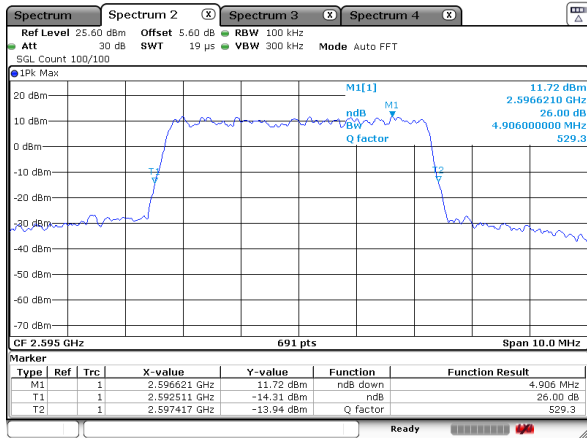
Date: 17_JUL_2020 22:44:39

Lowest Channel / 10MHz / 64QAM



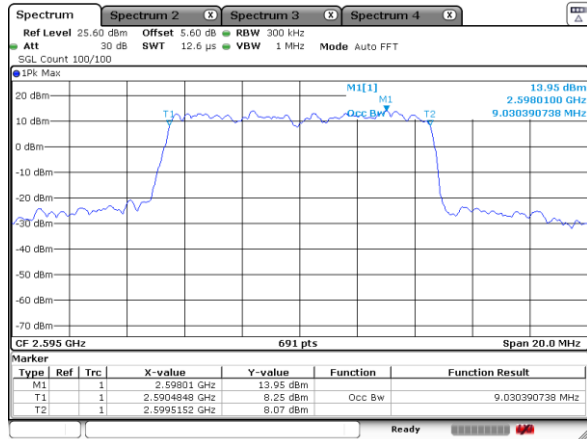
Date: 18_JUL_2020 00:21:48

Middle Channel / 5MHz / 64QAM



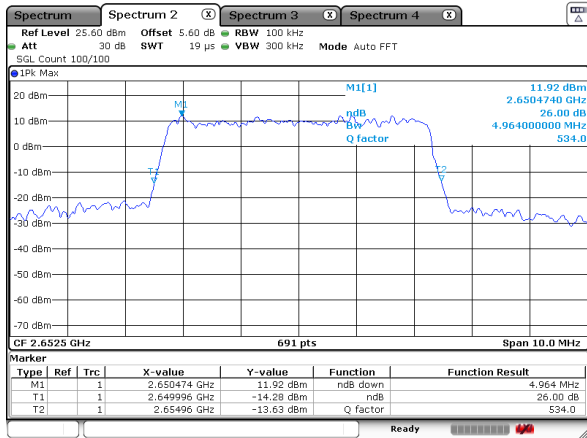
Date: 17_JUL_2020 23:05:11

Middle Channel / 10MHz / 64QAM



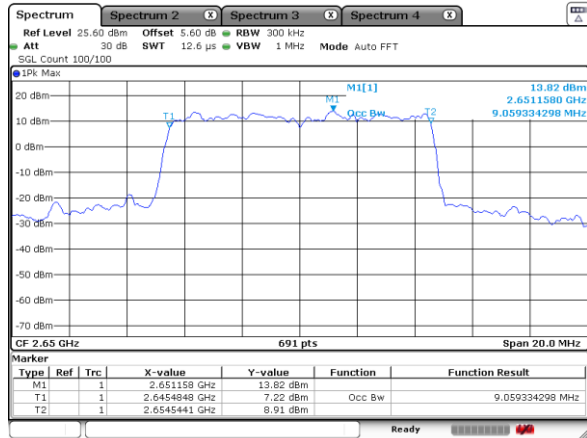
Date: 18_JUL_2020 00:25:24

Highest Channel / 5MHz / 64QAM



Date: 17_JUL_2020 23:17:21

Highest Channel / 10MHz / 64QAM

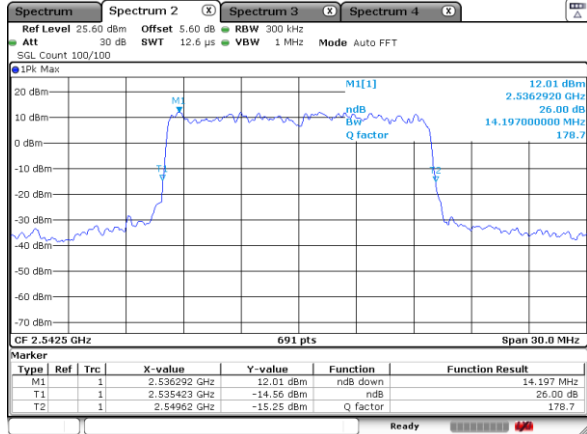


Date: 18_JUL_2020 00:25:48



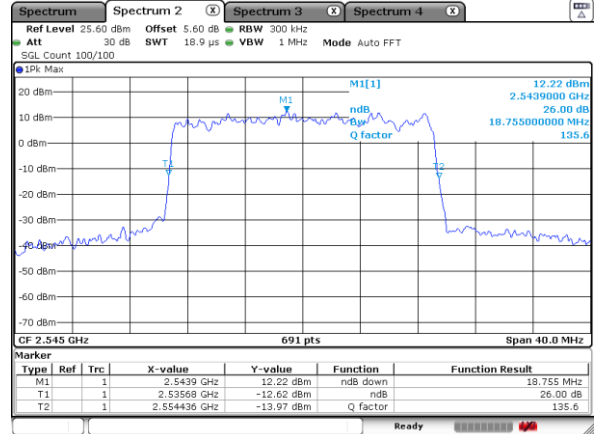
LTE Band 41

Lowest Channel / 15MHz / 64QAM



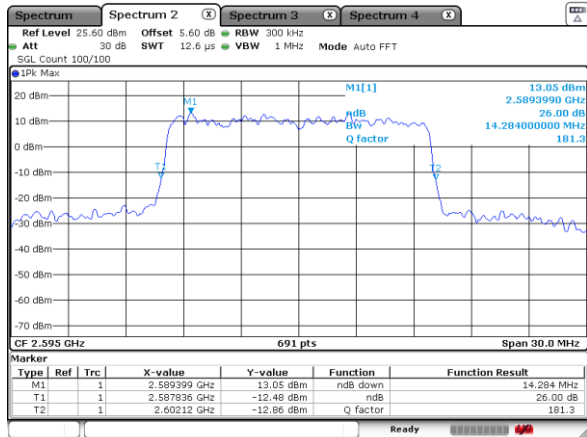
Date: 18 JUL 2020 00:30:33

Lowest Channel / 20MHz / 64QAM



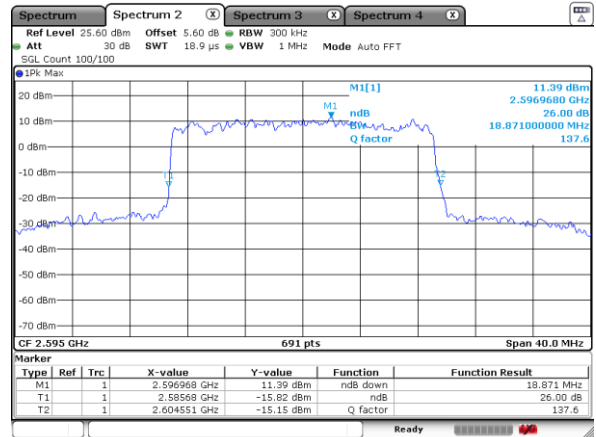
Date: 18 JUL 2020 00:58:33

Middle Channel / 15MHz / 64QAM



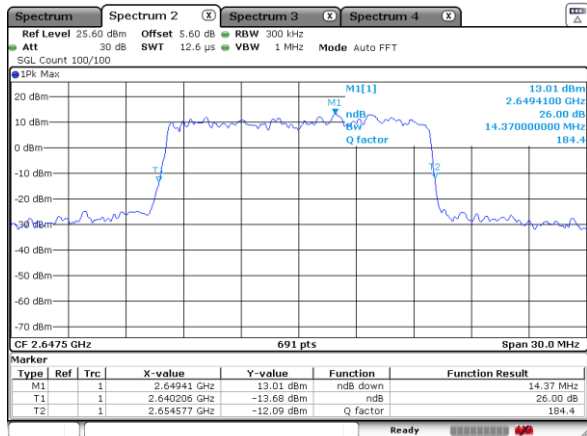
Date: 18 JUL 2020 00:39:04

Middle Channel / 20MHz / 64QAM



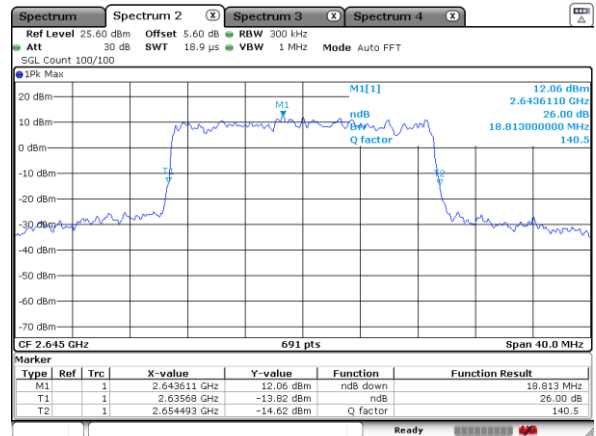
Date: 18 JUL 2020 01:05:27

Highest Channel / 15MHz / 64QAM



Date: 18 JUL 2020 00:50:32

Highest Channel / 20MHz / 64QAM



Date: 18 JUL 2020 02:19:29



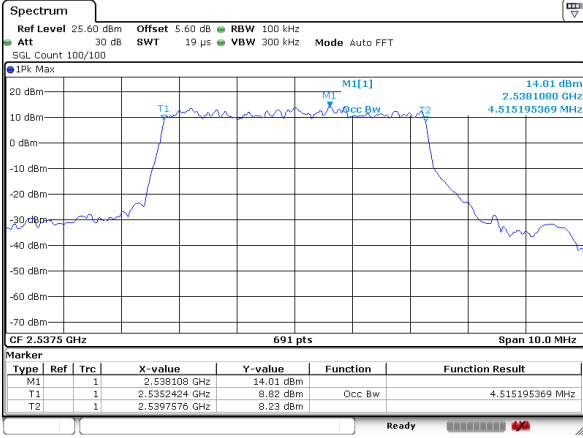
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.52	4.50	8.97	9.03	13.37	13.33	17.89	17.83	4.49	9.06	13.37	17.89
Middle CH	4.50	4.50	9.06	9.03	13.42	13.42	17.77	17.71	4.50	9.03	13.50	17.95
Highest CH	4.50	4.52	9.00	8.97	13.42	13.37	17.83	17.77	4.50	9.06	13.42	17.89



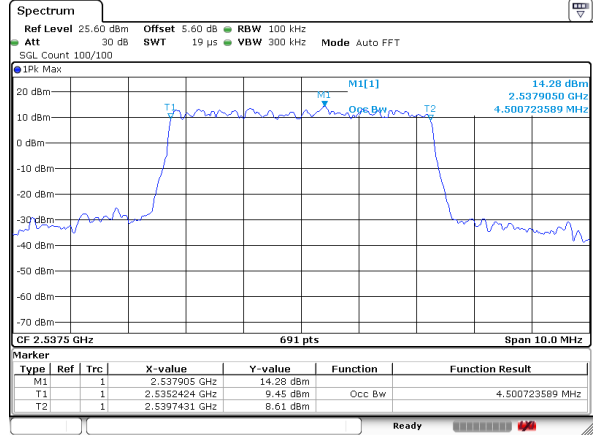
LTE Band 41

Lowest Channel / 5MHz / QPSK



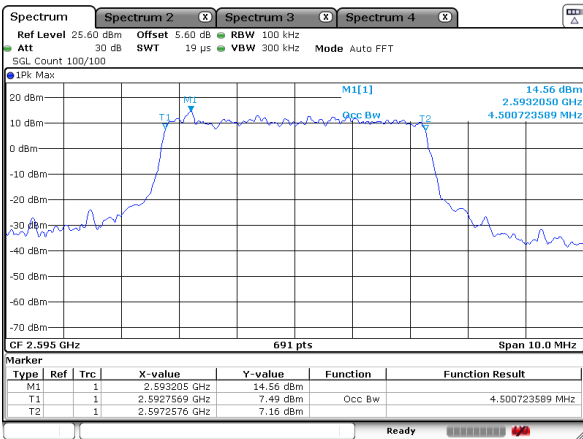
Date: 17_JUL_2020 22:41:41

Lowest Channel / 5MHz / 16QAM



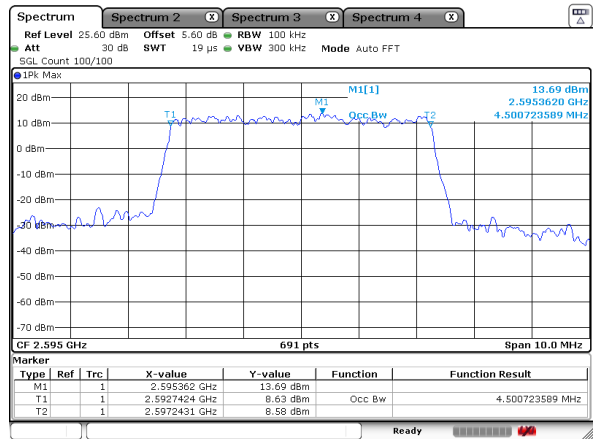
Date: 17_JUL_2020 22:43:31

Middle Channel / 5MHz / QPSK



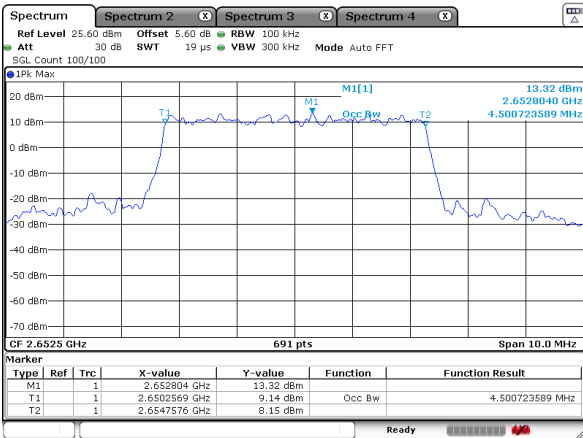
Date: 17_JUL_2020 23:03:45

Middle Channel / 5MHz / 16QAM



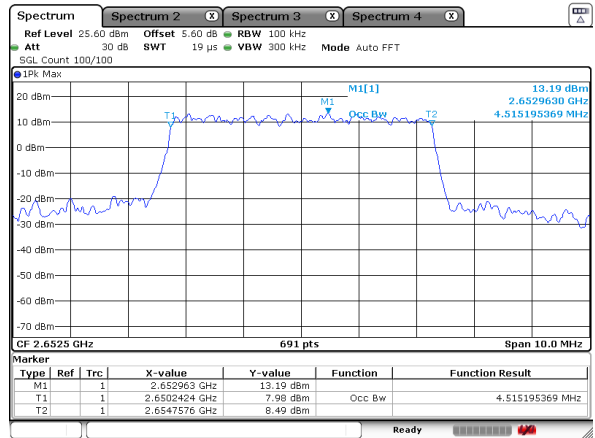
Date: 17_JUL_2020 23:03:29

Highest Channel / 5MHz / QPSK



Date: 17_JUL_2020 23:16:22

Highest Channel / 5MHz / 16QAM

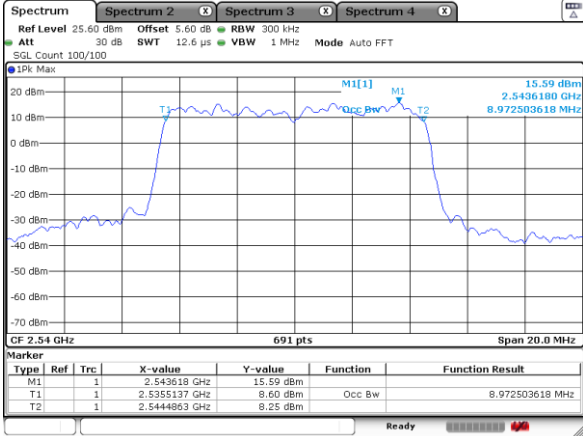


Date: 17_JUL_2020 23:16:06



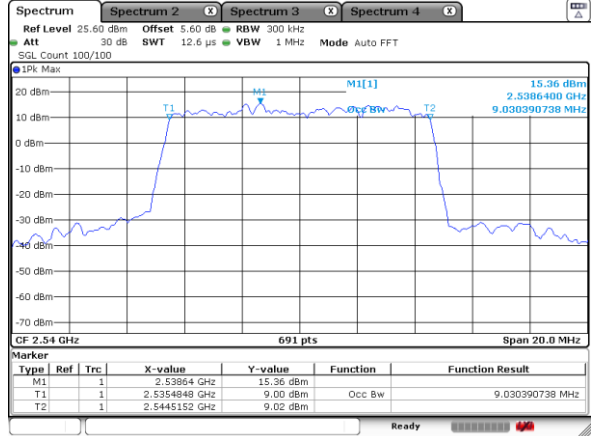
LTE Band 41

Lowest Channel / 10MHz / QPSK



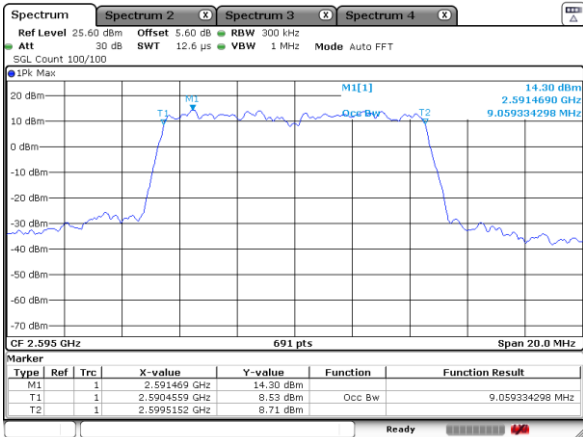
Date: 18 JUL 2020 00:22:41

Lowest Channel / 10MHz / 16QAM



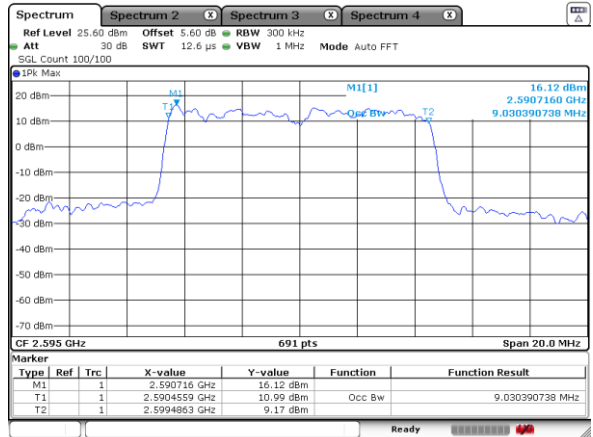
Date: 18 JUL 2020 00:22:29

Middle Channel / 10MHz / QPSK



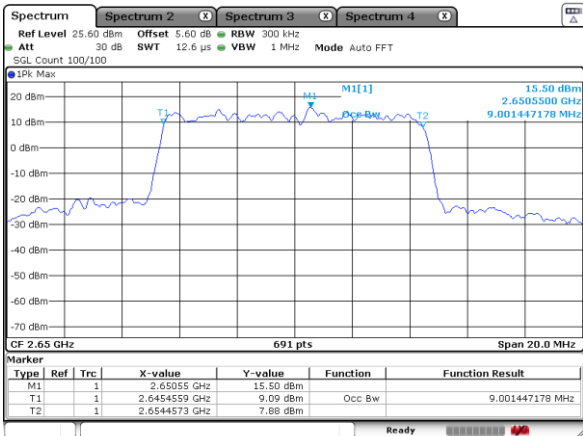
Date: 18 JUL 2020 00:24:50

Middle Channel / 10MHz / 16QAM



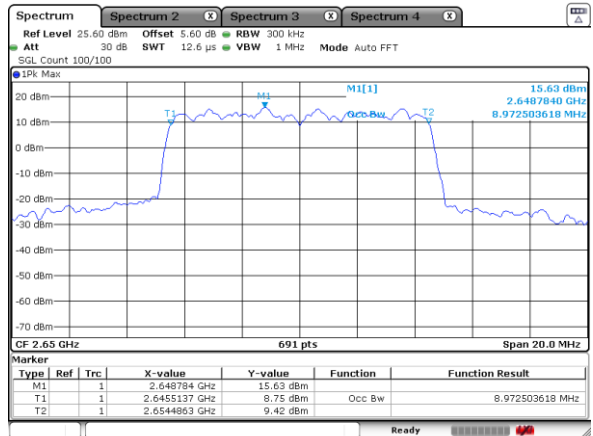
Date: 18 JUL 2020 00:25:05

Highest Channel / 10MHz / QPSK



Date: 18 JUL 2020 00:26:29

Highest Channel / 10MHz / 16QAM

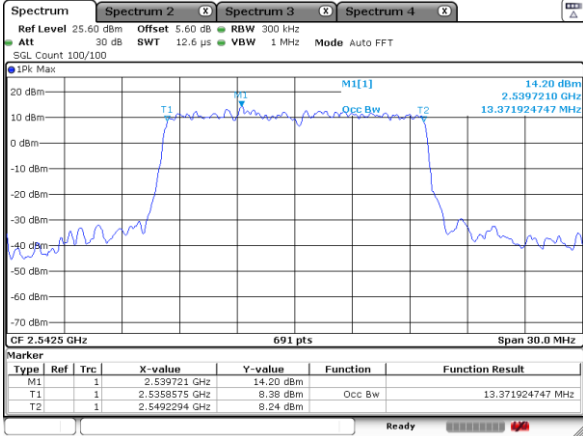


Date: 18 JUL 2020 00:26:14



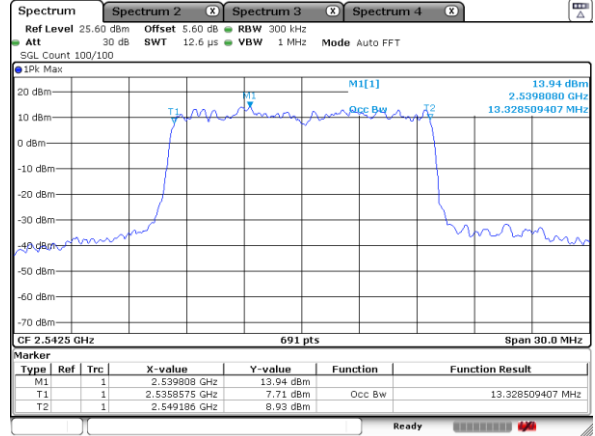
LTE Band 41

Lowest Channel / 15MHz / QPSK



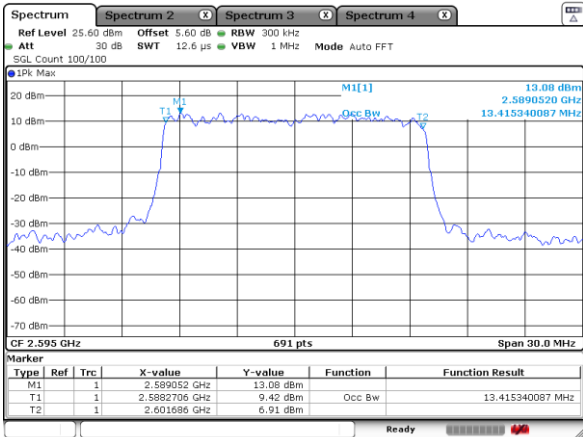
Date: 18 JUL 2020 00:29:37

Lowest Channel / 15MHz / 16QAM



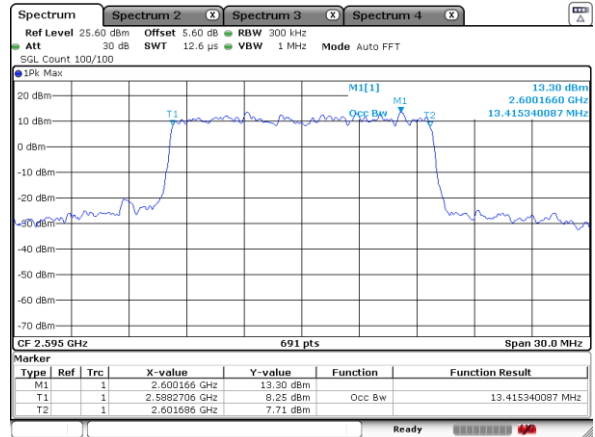
Date: 18 JUL 2020 00:29:24

Middle Channel / 15MHz / QPSK



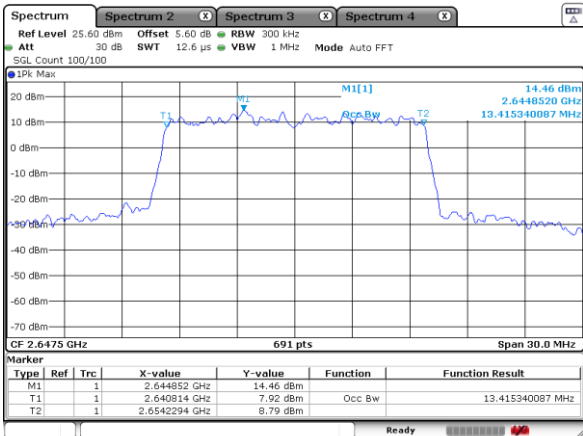
Date: 18 JUL 2020 00:38:07

Middle Channel / 15MHz / 16QAM



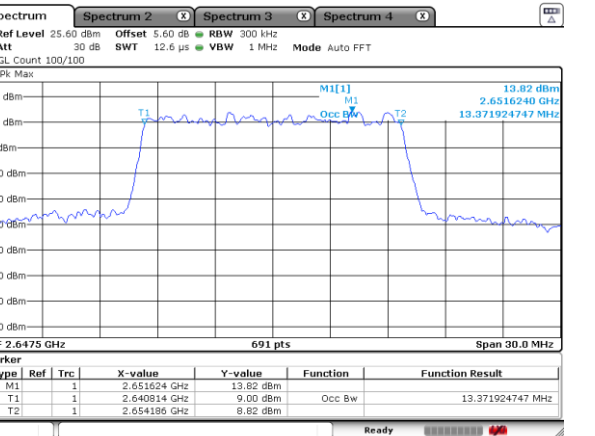
Date: 18 JUL 2020 00:38:29

Highest Channel / 15MHz / QPSK



Date: 18 JUL 2020 00:49:30

Highest Channel / 15MHz / 16QAM

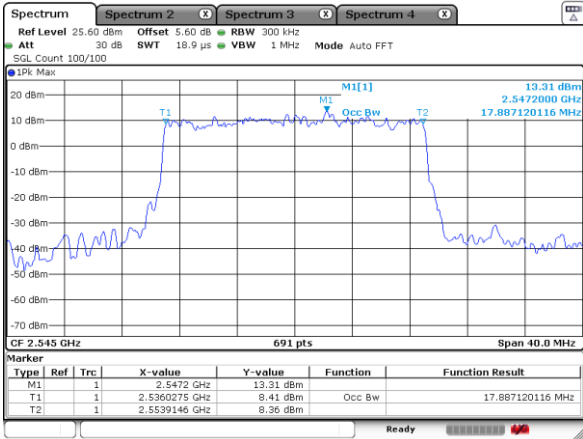


Date: 18 JUL 2020 00:49:15



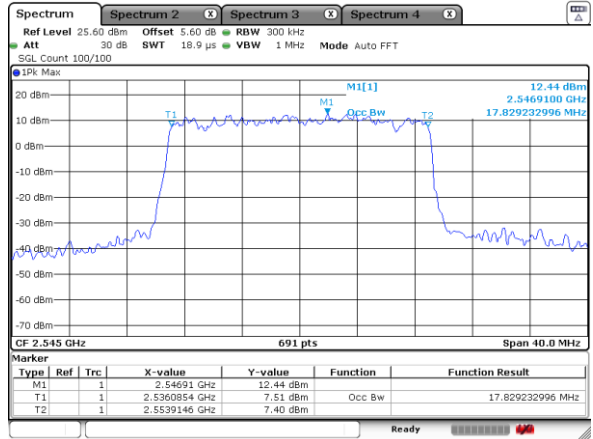
LTE Band 41

Lowest Channel / 20MHz / QPSK



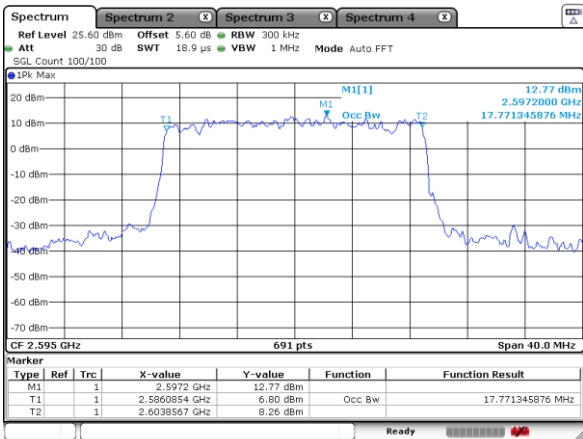
Date: 18 JUL 2020 00:55:59

Lowest Channel / 20MHz / 16QAM



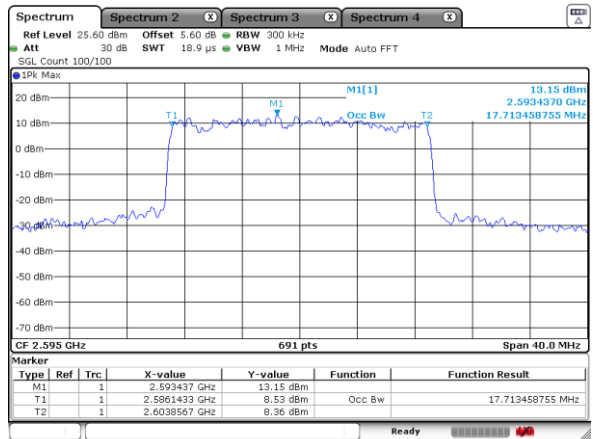
Date: 18 JUL 2020 00:55:47

Middle Channel / 20MHz / QPSK



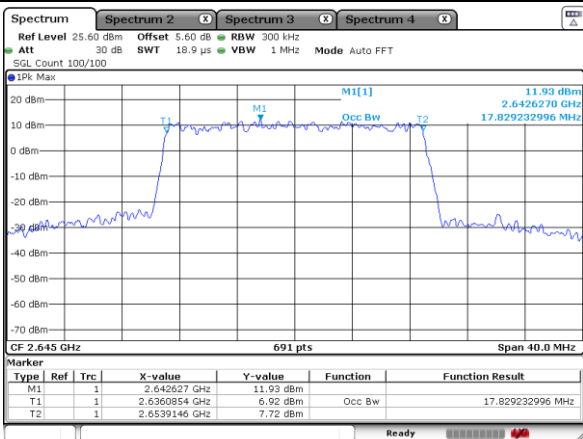
Date: 18 JUL 2020 01:04:40

Middle Channel / 20MHz / 16QAM



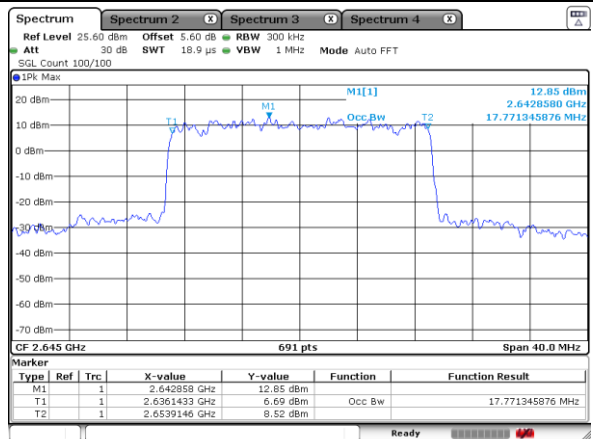
Date: 18 JUL 2020 01:05:00

Highest Channel / 20MHz / QPSK



Date: 18 JUL 2020 02:17:53

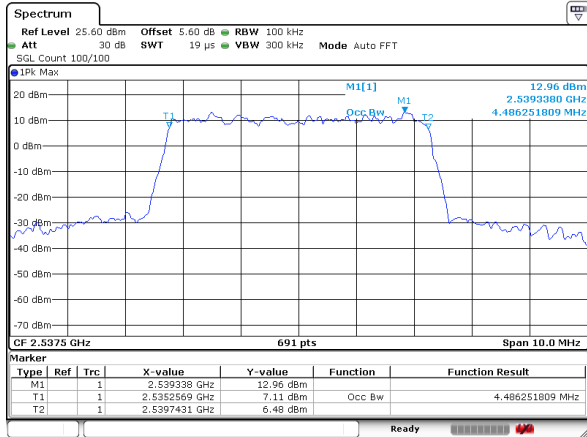
Highest Channel / 20MHz / 16QAM



Date: 18 JUL 2020 02:17:05

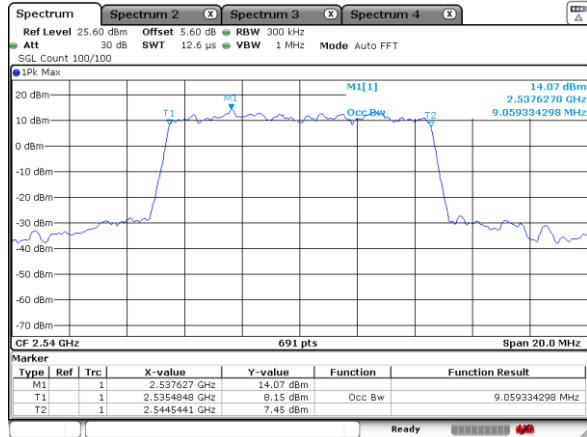


Lowest Channel / 5MHz / 64QAM



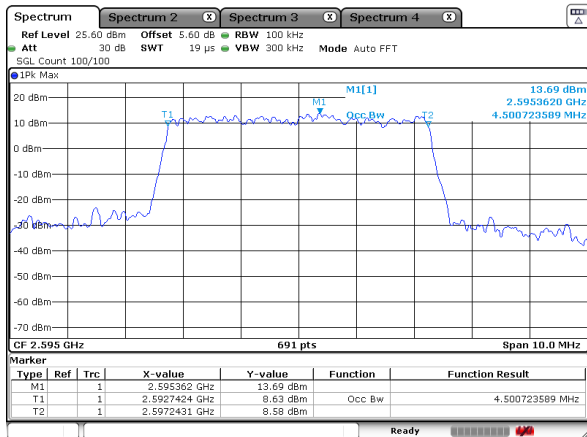
Date: 17 JUL 2020 22:43:44

Lowest Channel / 10MHz / 64QAM



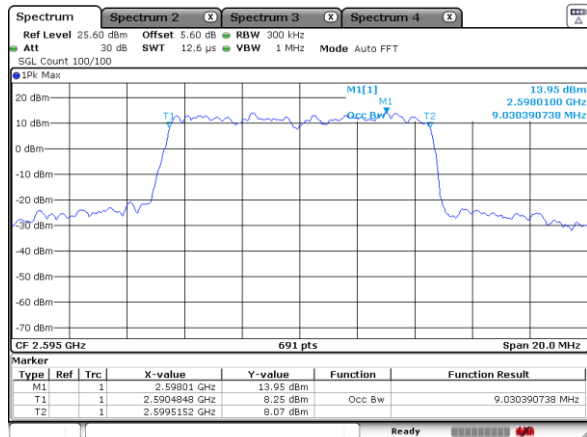
Date: 18 JUL 2020 00:21:48

Middle Channel / 5MHz / 64QAM



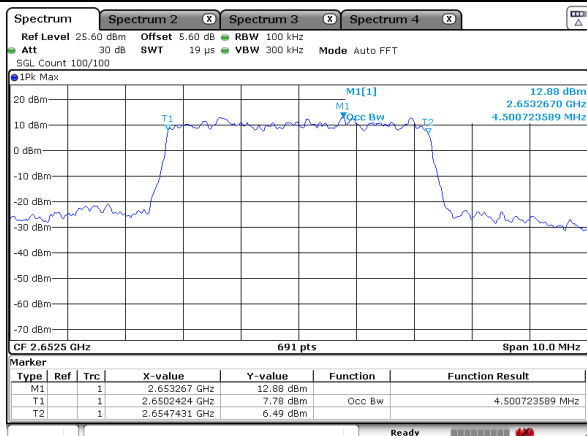
Date: 17 JUL 2020 23:03:29

Middle Channel / 10MHz / 64QAM



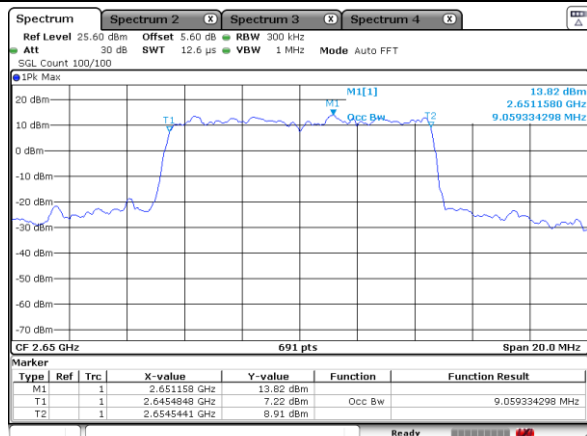
Date: 18 JUL 2020 00:25:24

Highest Channel / 5MHz / 64QAM



Date: 17 JUL 2020 23:15:42

Highest Channel / 10MHz / 64QAM



Date: 18 JUL 2020 00:25:48