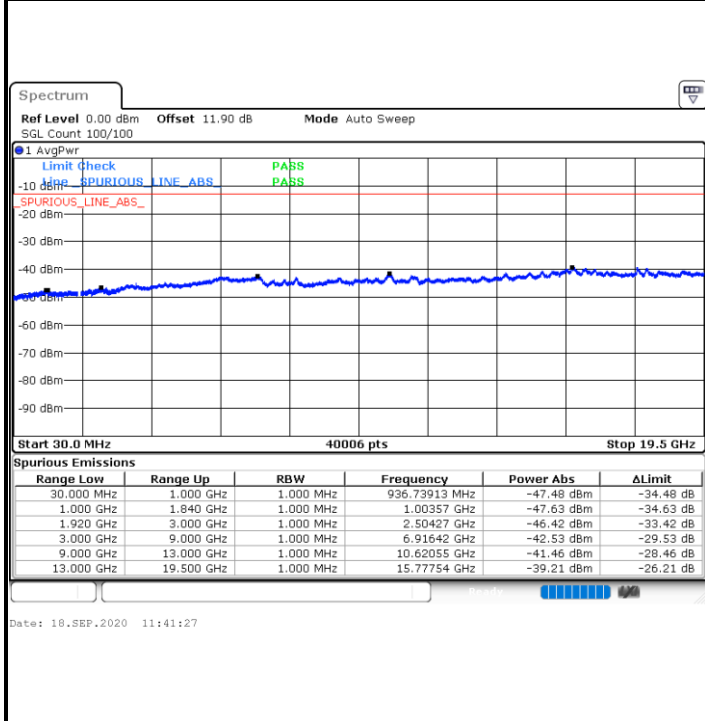


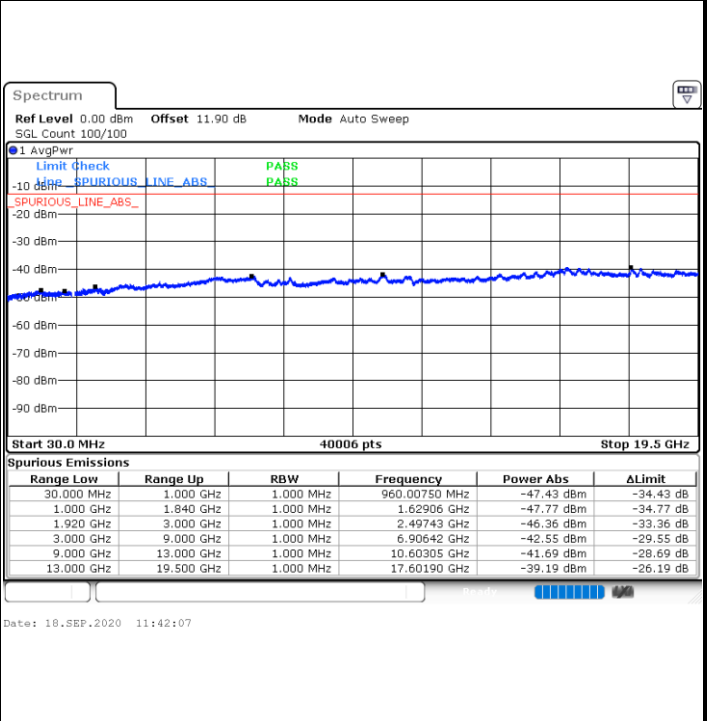


LTE Band 2 / 5MHz

Highest Channel / QPSK

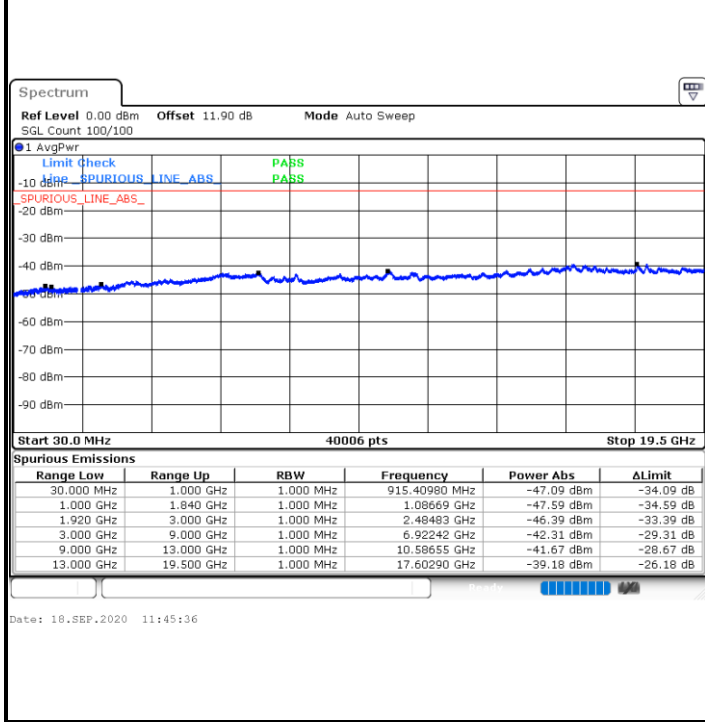


Highest Channel / 16QAM

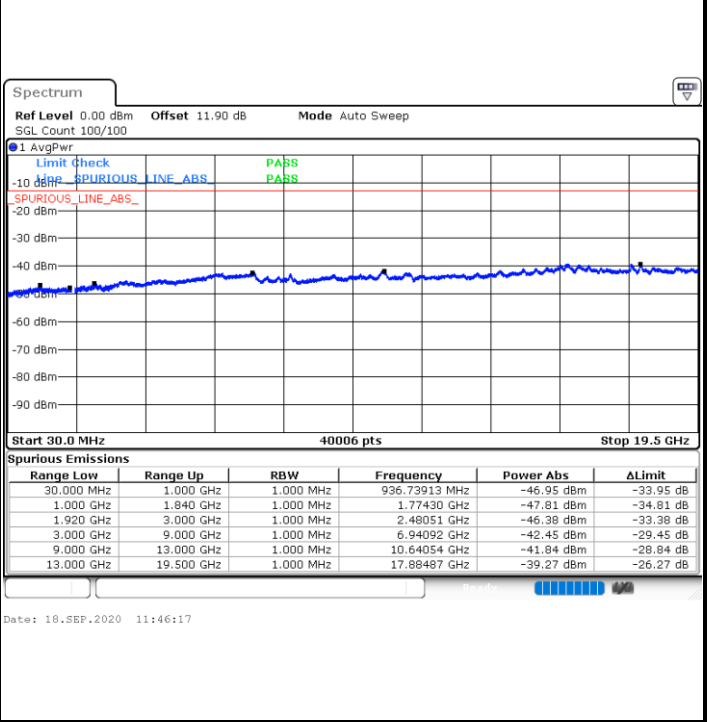


LTE Band 2 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

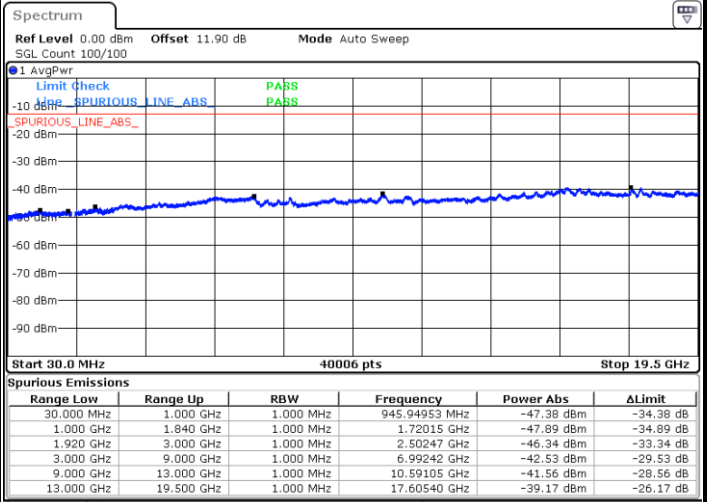
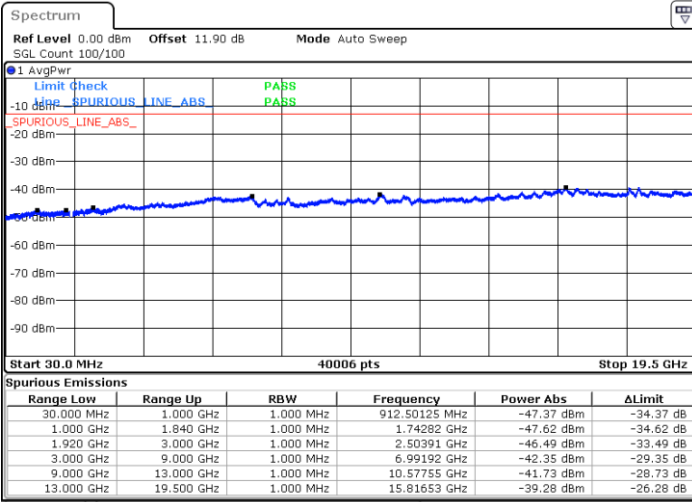




LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

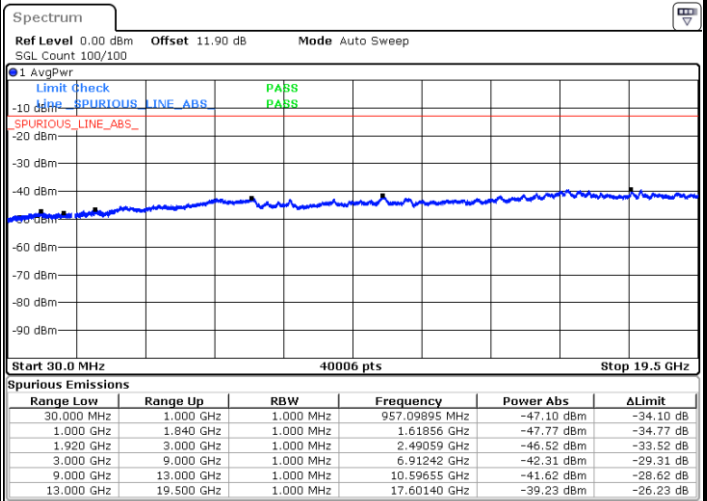
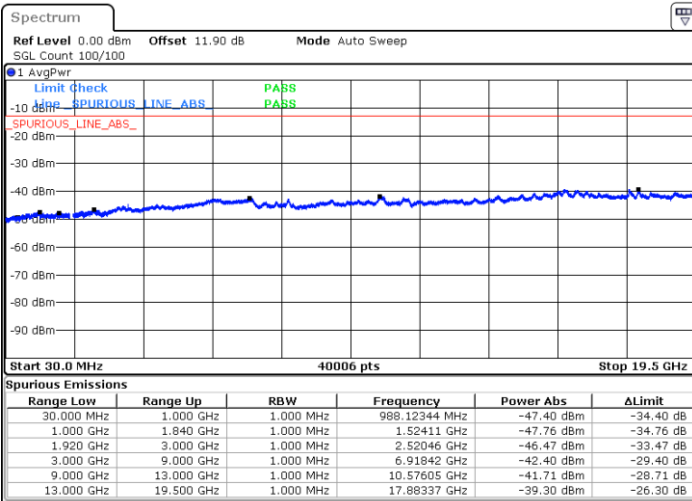


Date: 18.SEP.2020 11:47:42

Date: 18.SEP.2020 11:48:23

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.SEP.2020 11:51:50

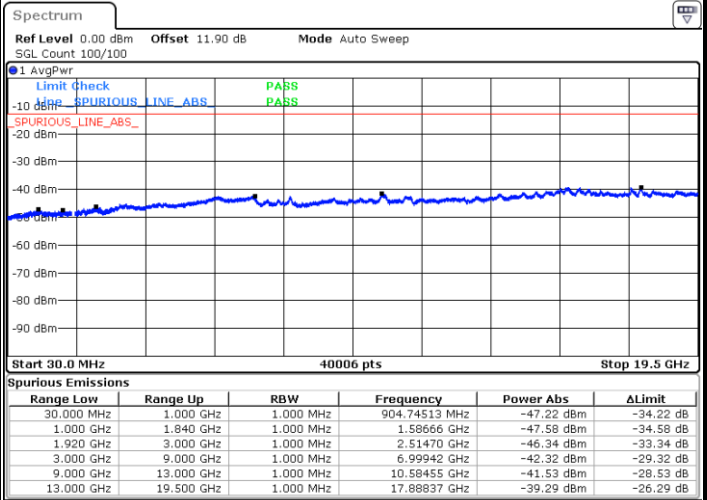
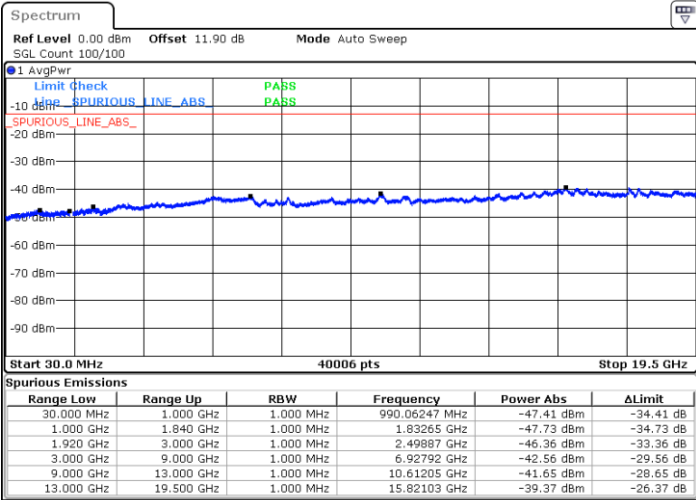
Date: 18.SEP.2020 11:52:32



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

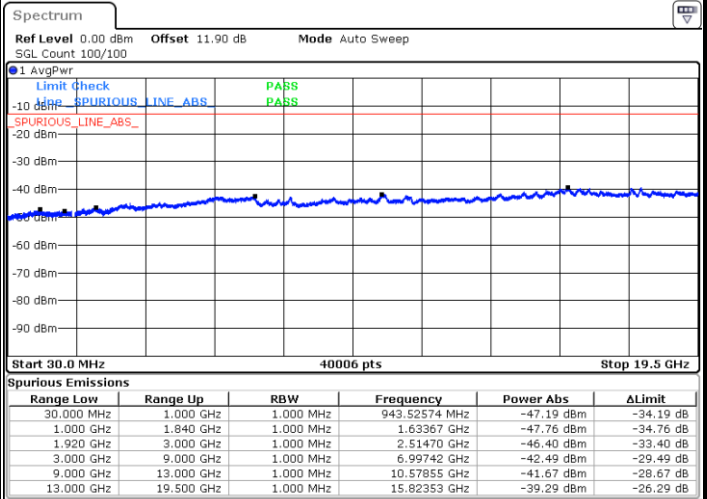
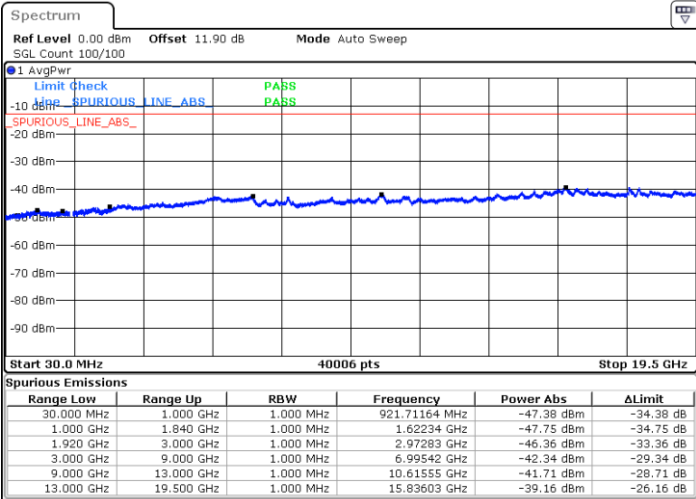


Date: 18.SEP.2020 11:56:00

Date: 18.SEP.2020 11:56:41

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 18.SEP.2020 11:58:07

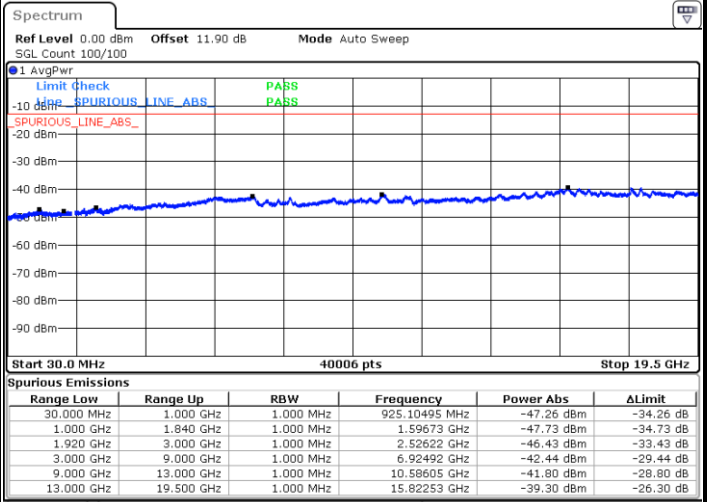
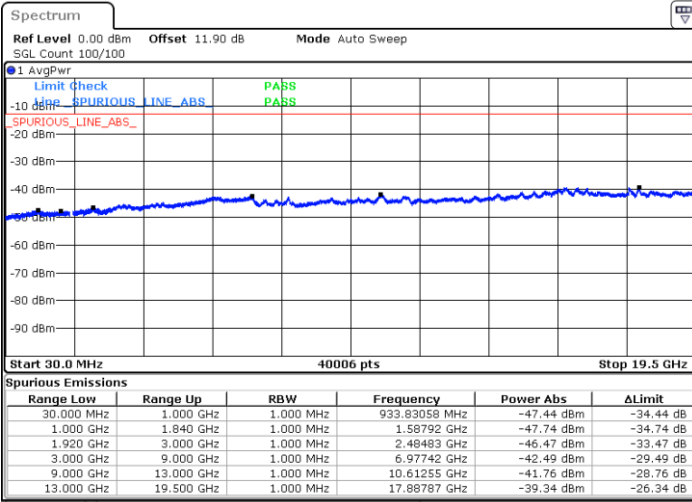
Date: 18.SEP.2020 11:58:47



LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



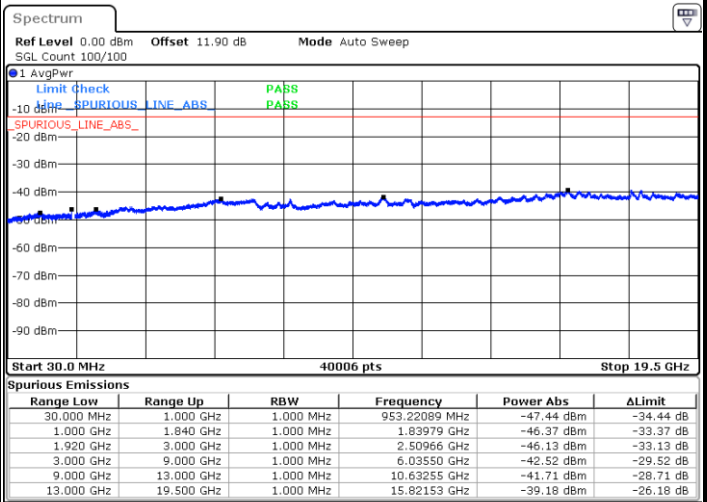
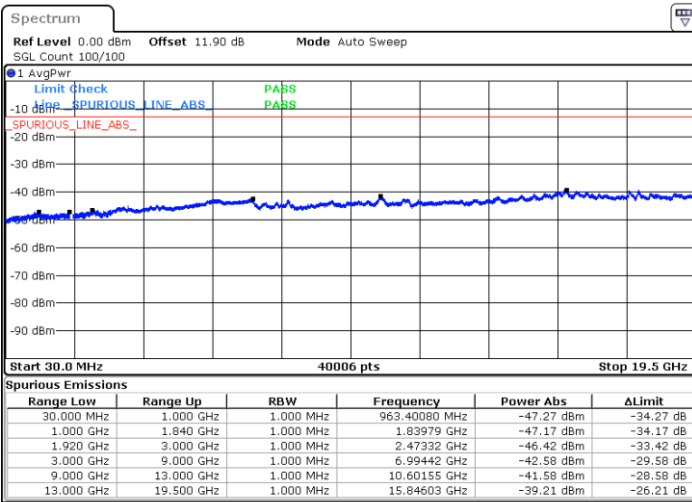
Date: 18.SEP.2020 12:02:15

Date: 18.SEP.2020 12:02:56

LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 18.SEP.2020 12:06:25

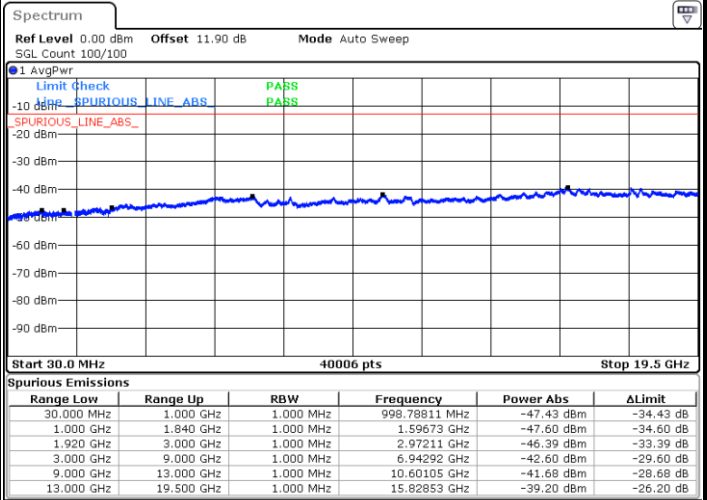
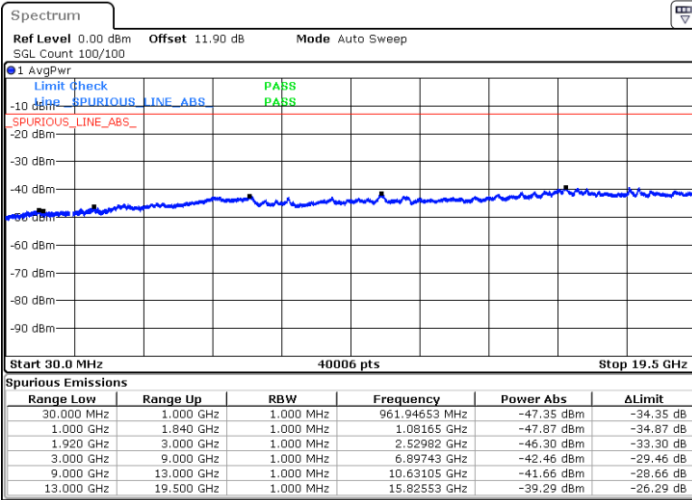
Date: 18.SEP.2020 12:07:06



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

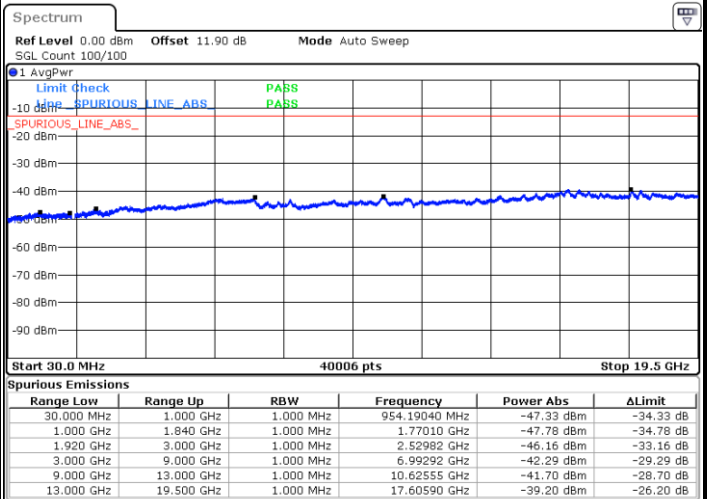
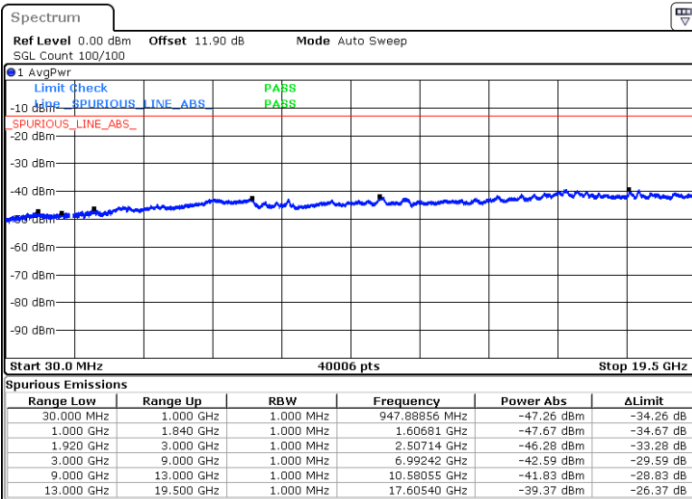


Date: 18.SEP.2020 12:08:31

Date: 18.SEP.2020 12:09:12

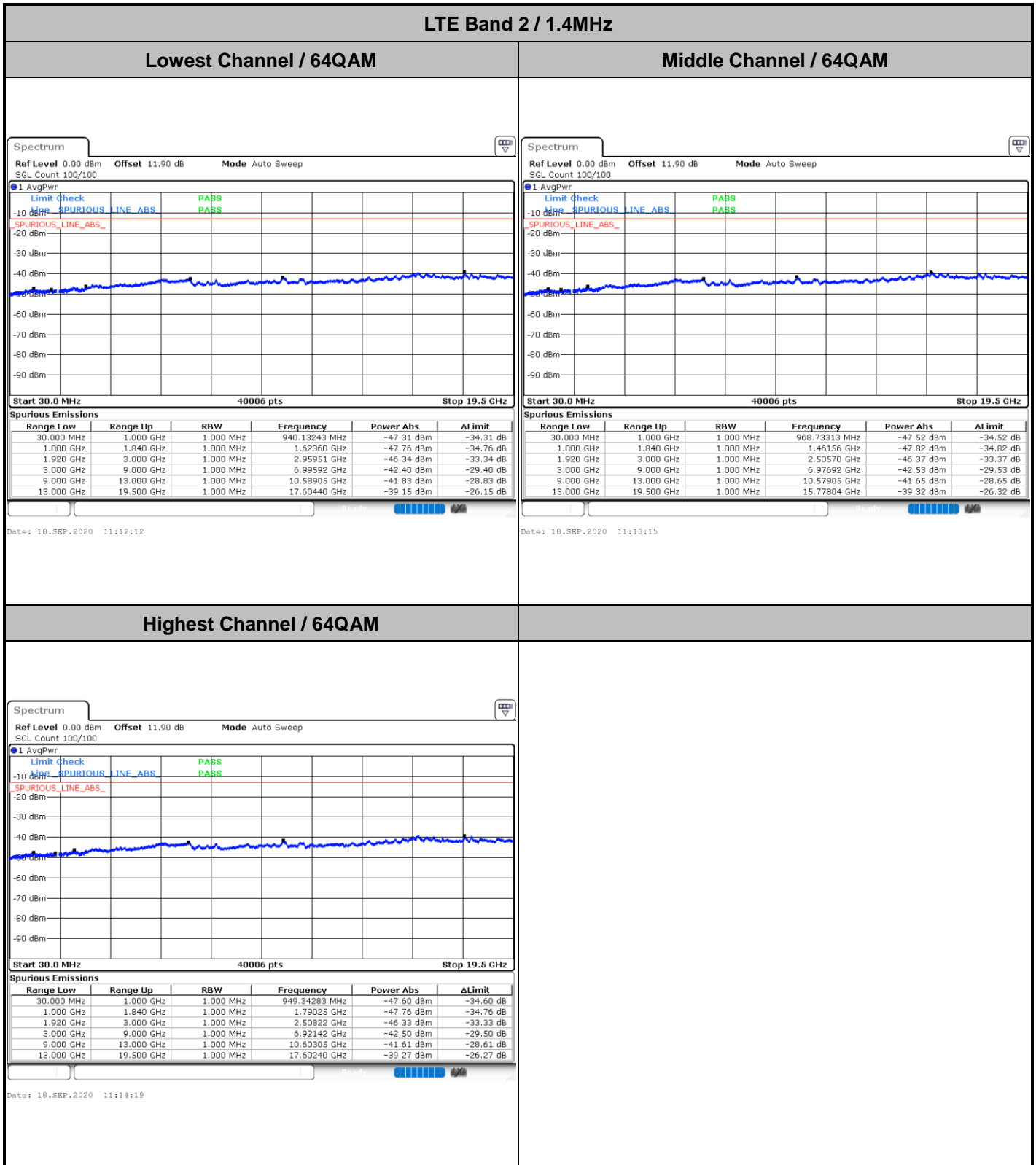
Highest Channel / QPSK

Highest Channel / 16QAM



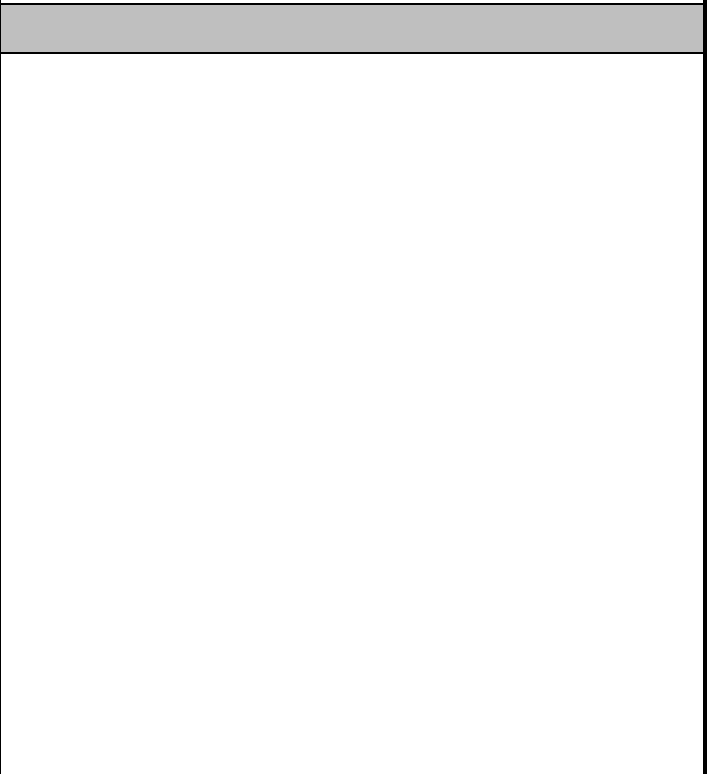
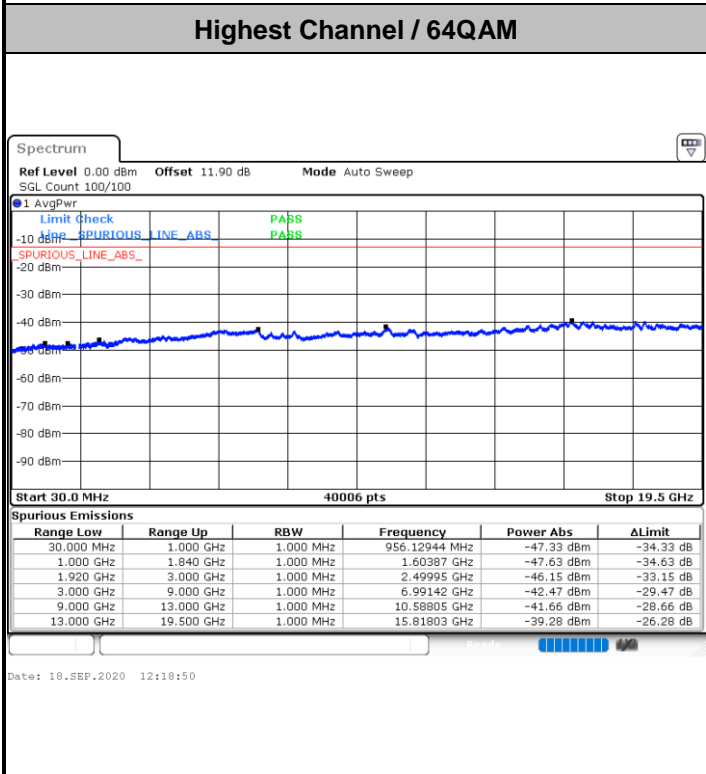
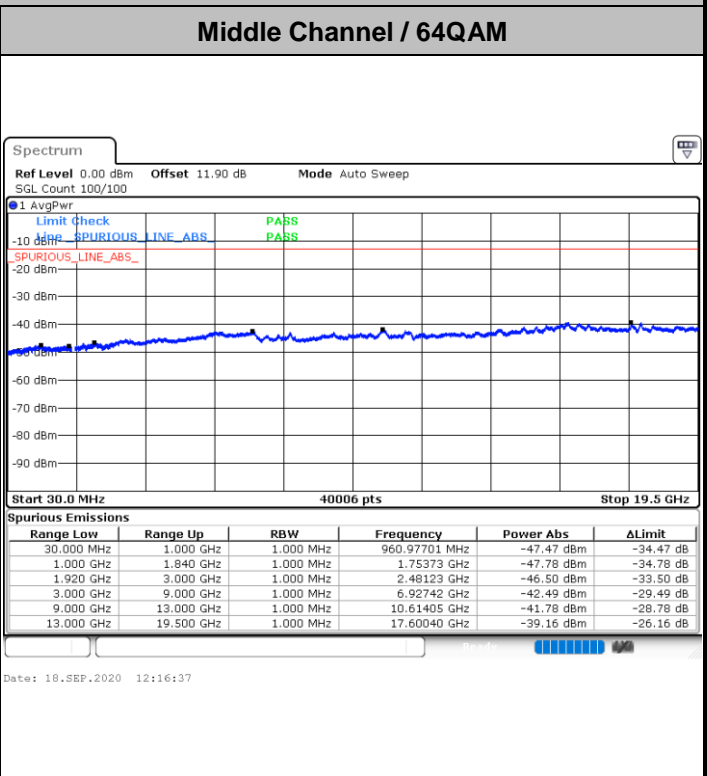
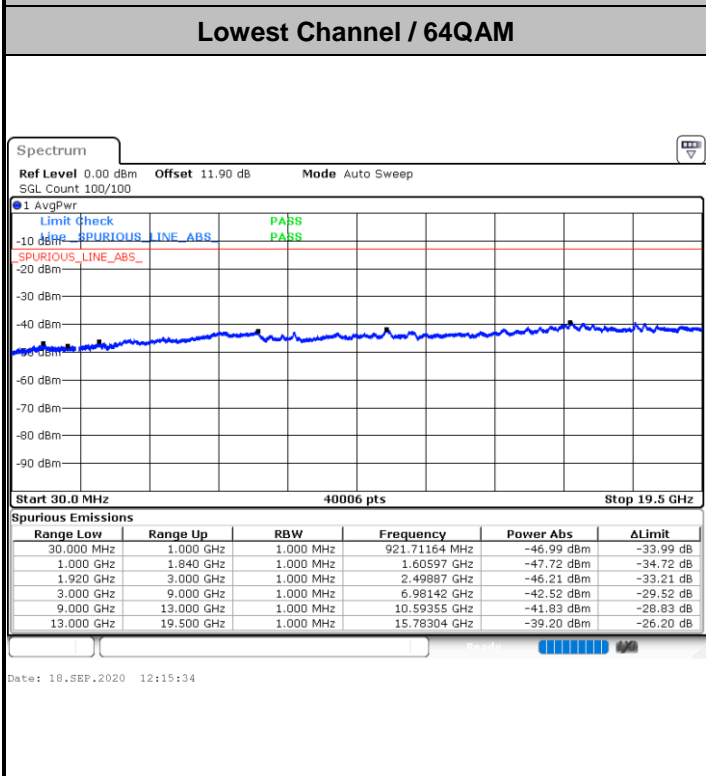
Date: 18.SEP.2020 12:12:40

Date: 18.SEP.2020 12:13:20





LTE Band 2 / 3MHz

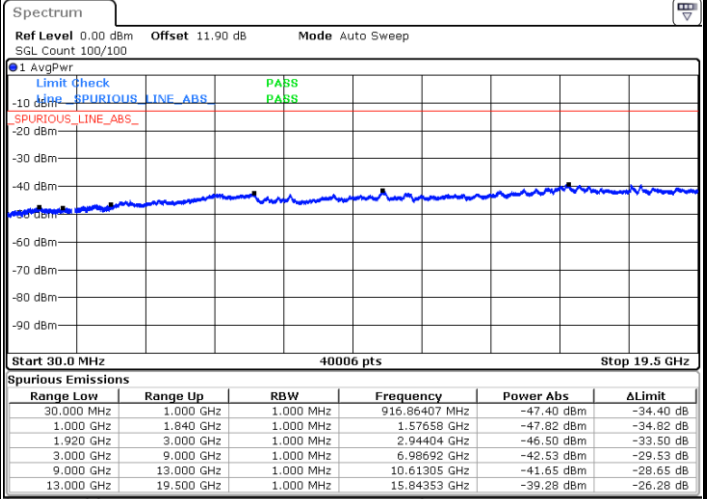
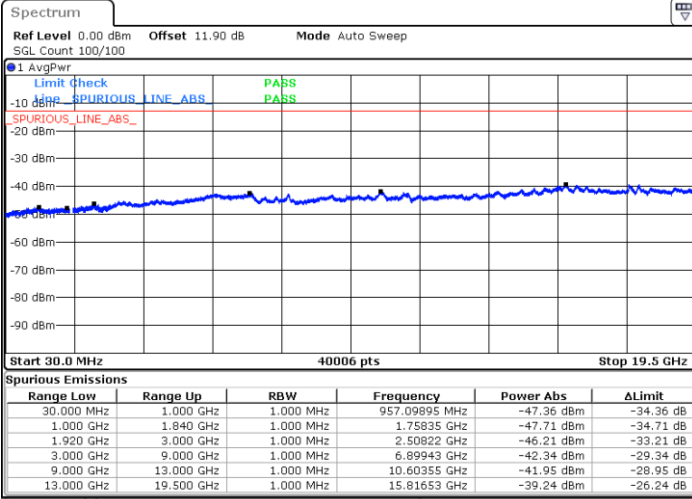




LTE Band 2 / 5MHz

Lowest Channel / 64QAM

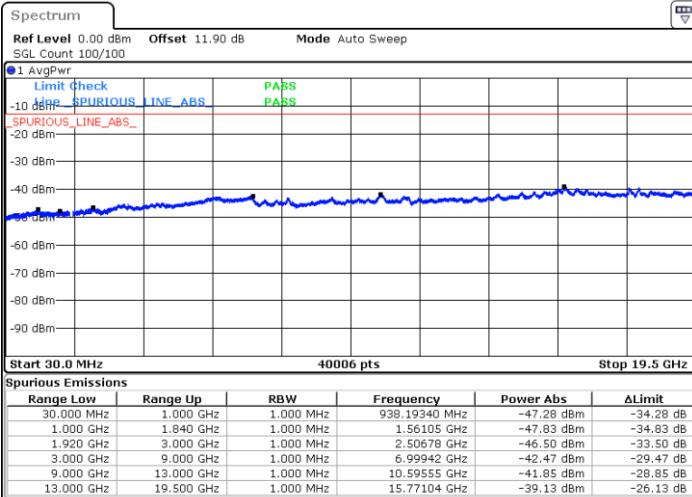
Middle Channel / 64QAM



Date: 18.SEP.2020 12:20:55

Date: 18.SEP.2020 12:21:58

Highest Channel / 64QAM

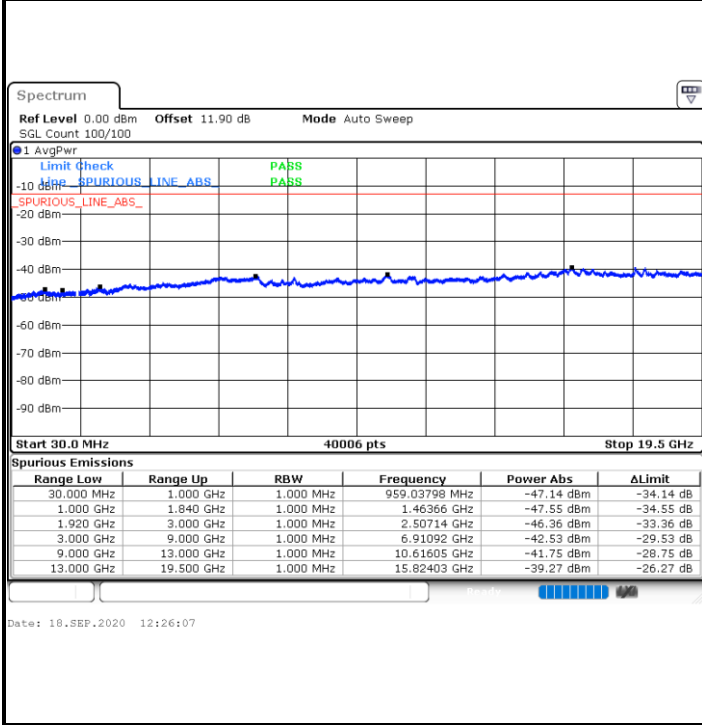


Date: 18.SEP.2020 12:24:02

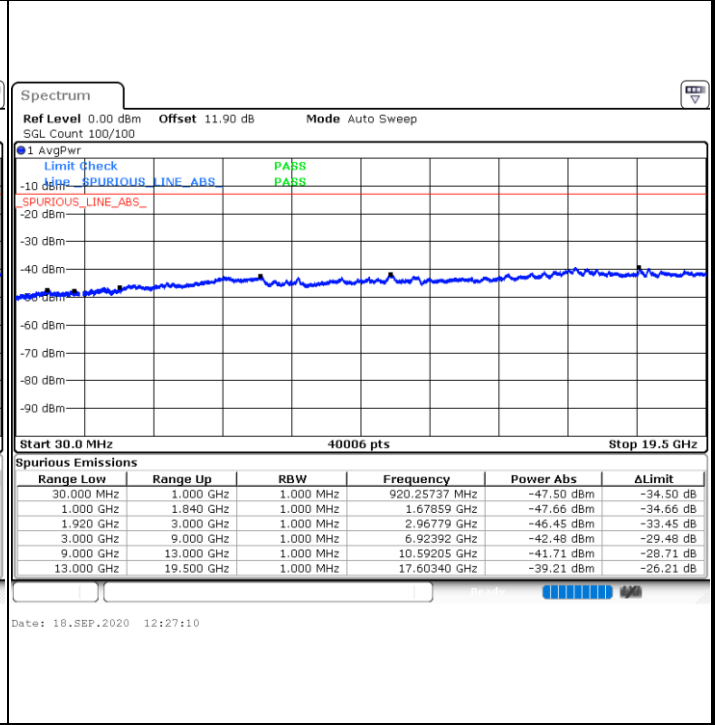


LTE Band 2 / 10MHz

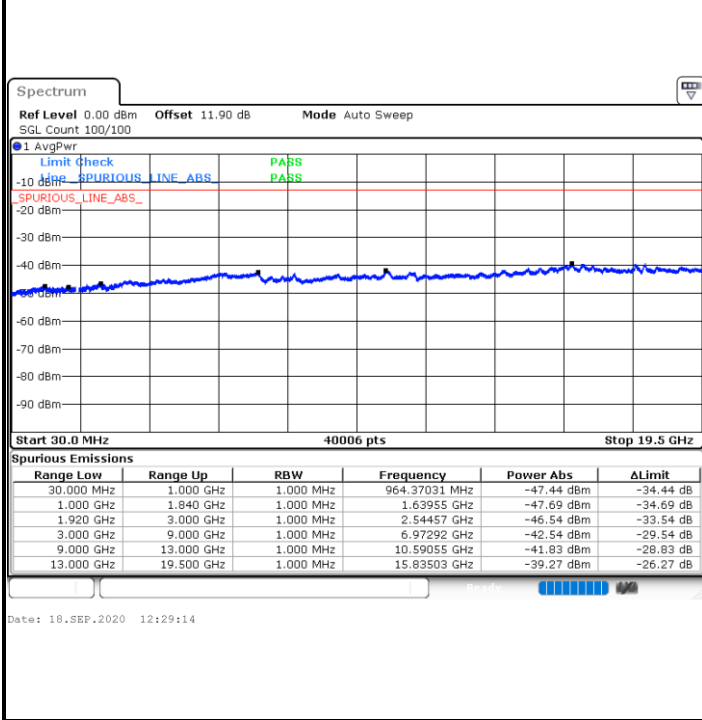
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM

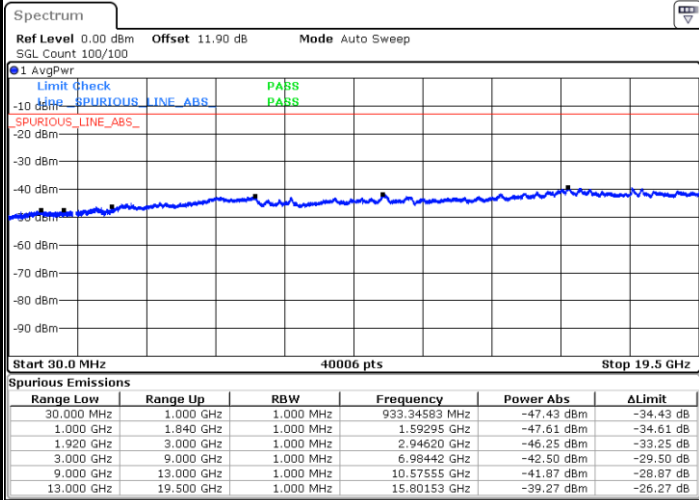




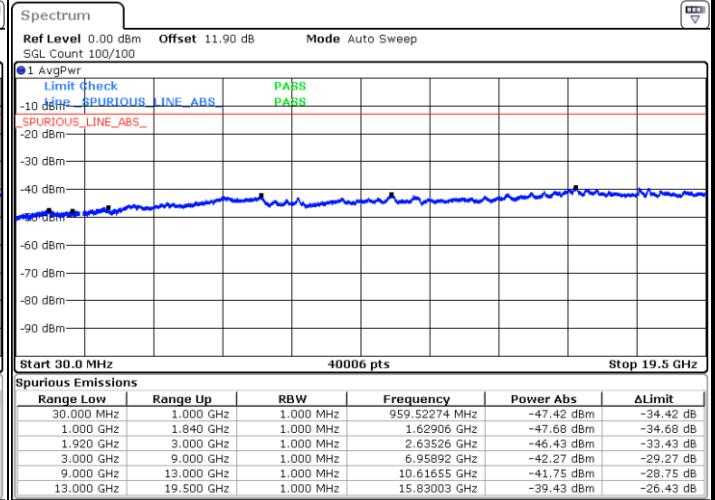
LTE Band 2 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

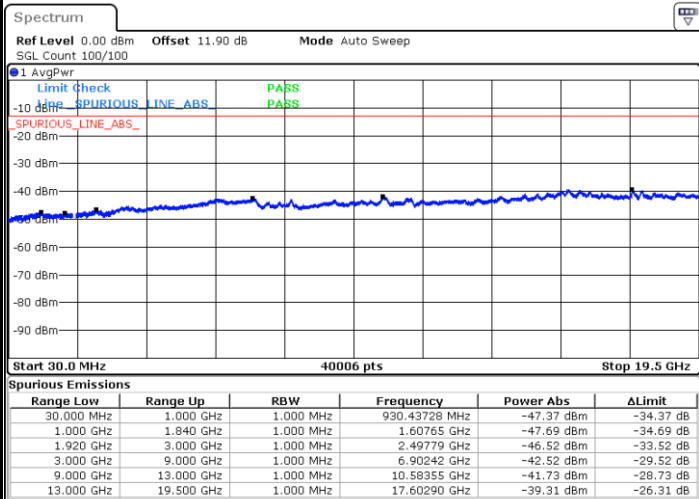


Date: 18.SEP.2020 12:31:19



Date: 18.SEP.2020 12:32:22

Highest Channel / 64QAM

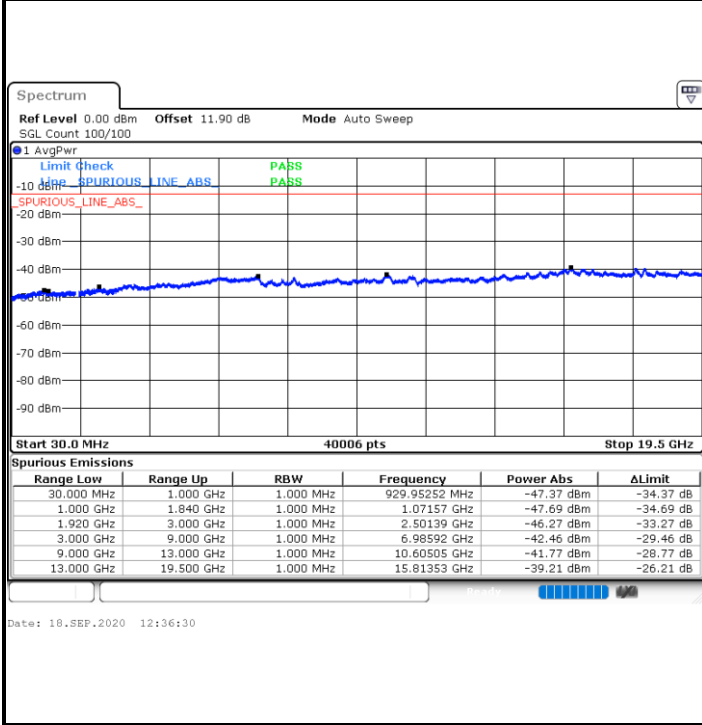


Date: 18.SEP.2020 12:34:26

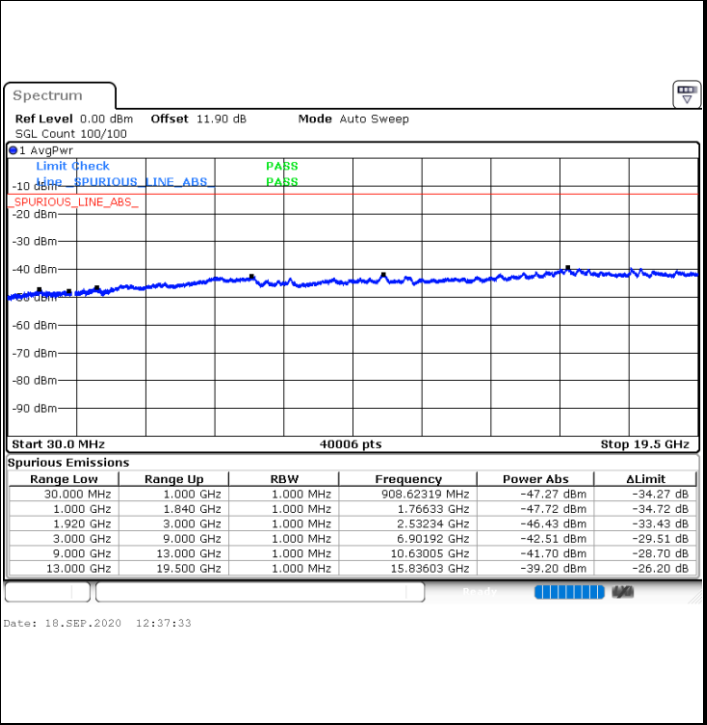


LTE Band 2 / 20MHz

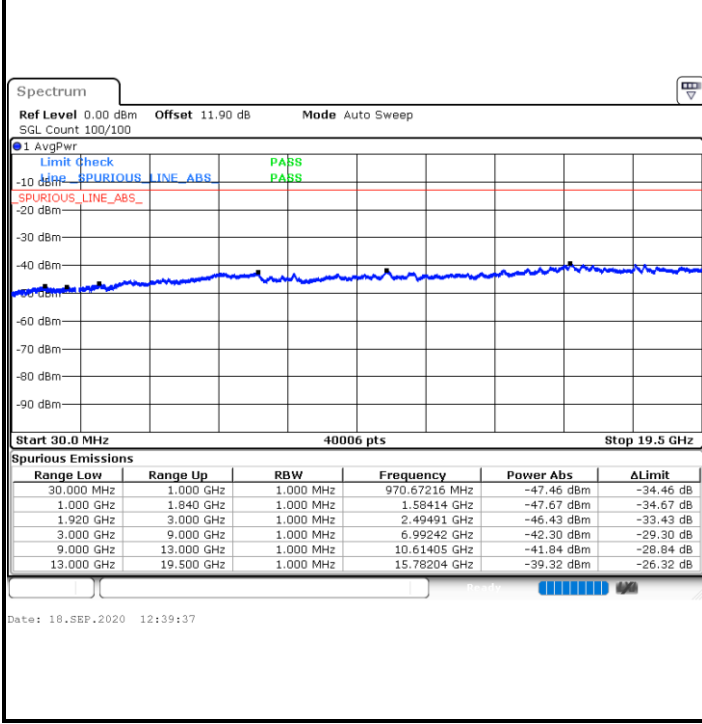
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



Highest Channel / 64QAM





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	0.0014	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

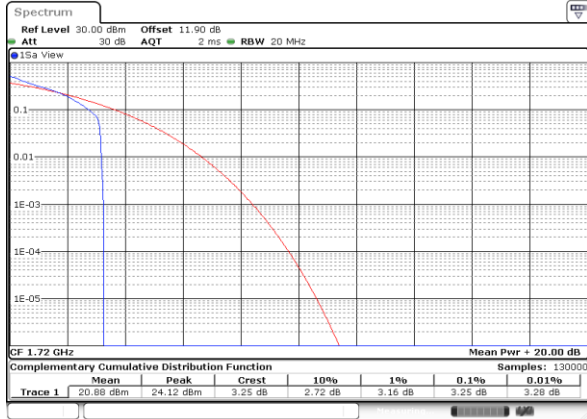
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.25	4.38	4.09	5.59	PASS
Middle CH	3.57	4.46	4.70	5.71	
Highest CH	3.62	4.43	5.07	5.71	
Mode	LTE Band 4 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.68	6.23	-	-	PASS
Middle CH	6.23	6.35	-	-	
Highest CH	6.23	6.32	-	-	



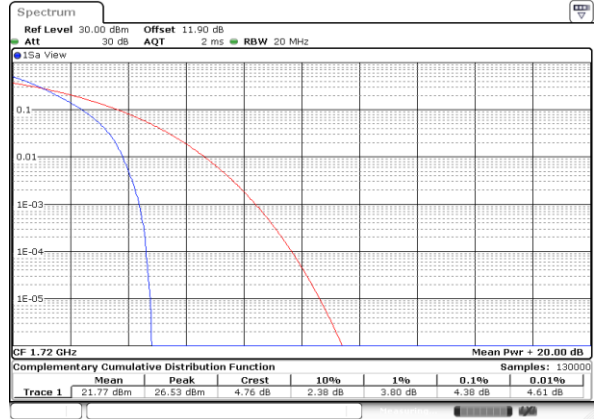
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



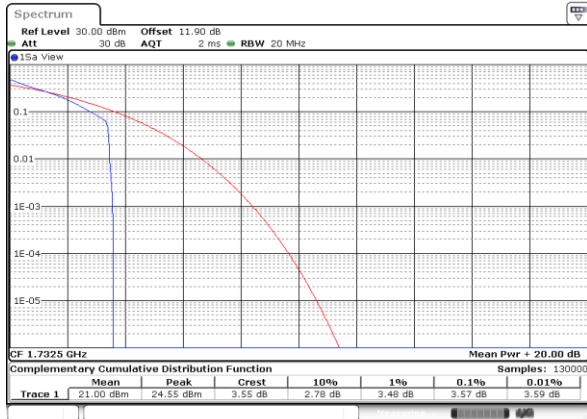
Date: 18_SEP.2020 15:00:47

Lowest Channel / Full RB



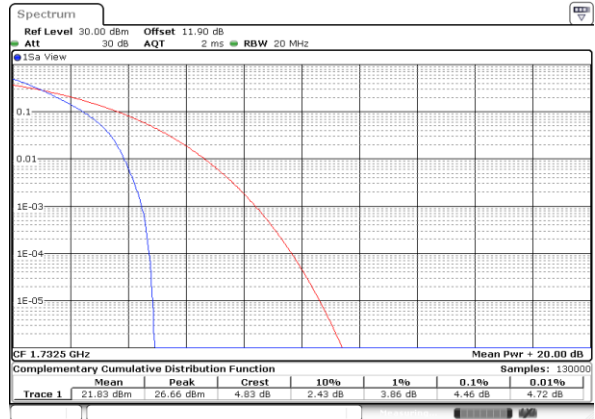
Date: 18_SEP.2020 15:00:58

Middle Channel / 1RB



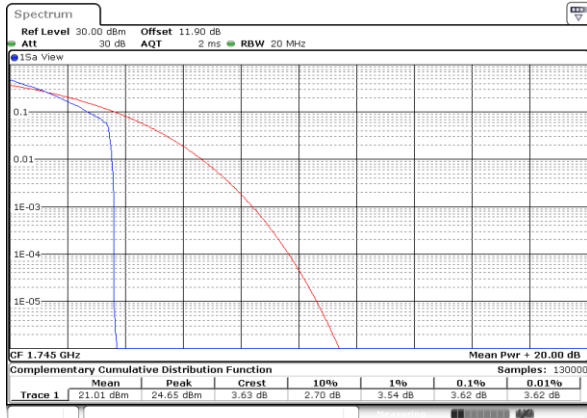
Date: 18_SEP.2020 15:01:08

Middle Channel / Full RB



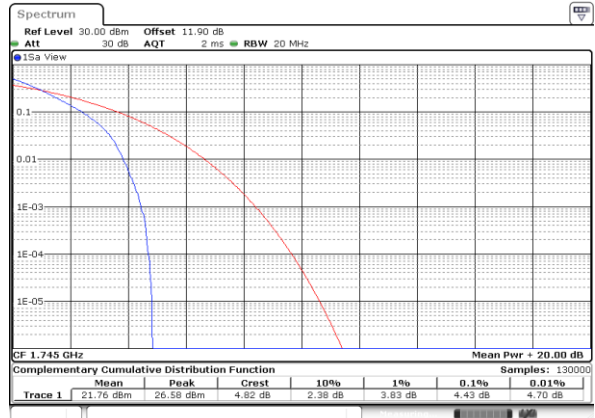
Date: 18_SEP.2020 15:01:18

Highest Channel / 1RB



Date: 18_SEP.2020 15:01:28

Highest Channel / Full RB

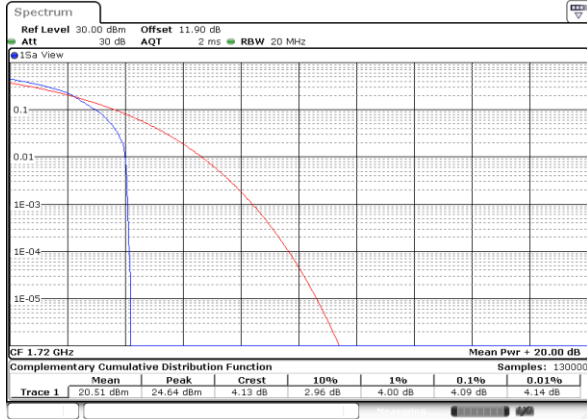


Date: 18_SEP.2020 15:02:40



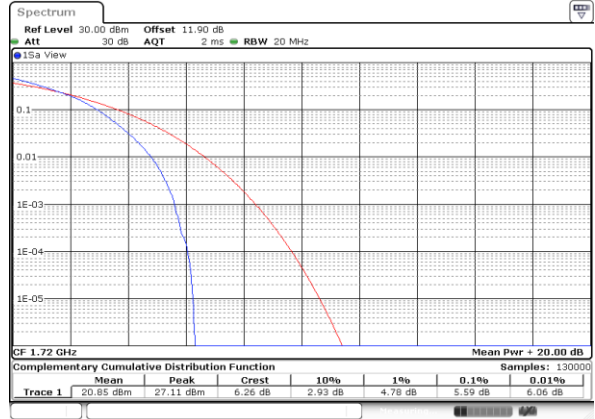
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



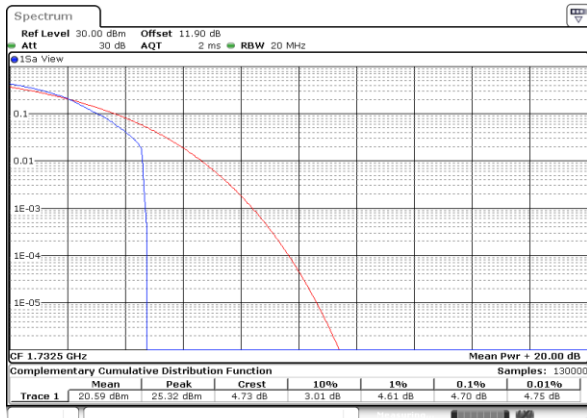
Date: 18_SEP.2020 14:59:41

Lowest Channel / Full RB



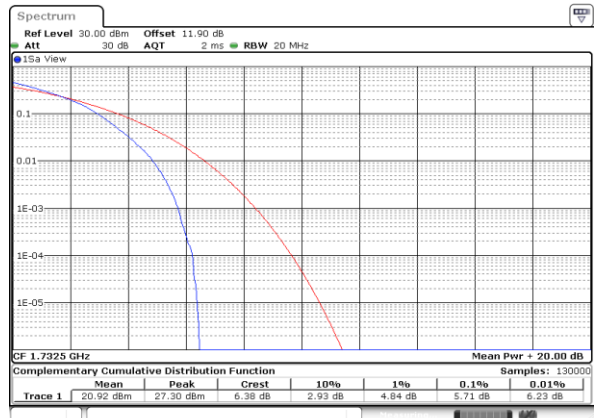
Date: 18_SEP.2020 14:59:54

Middle Channel / 1RB



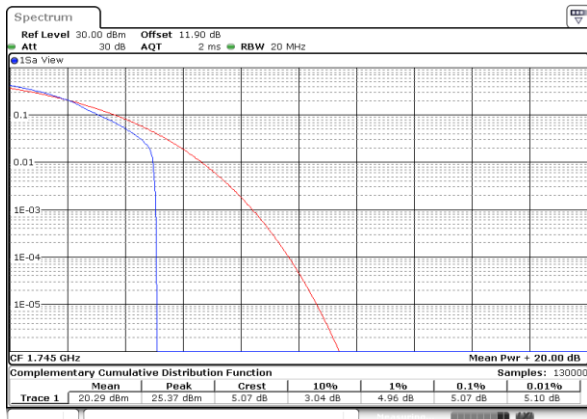
Date: 18_SEP.2020 15:00:04

Middle Channel / Full RB



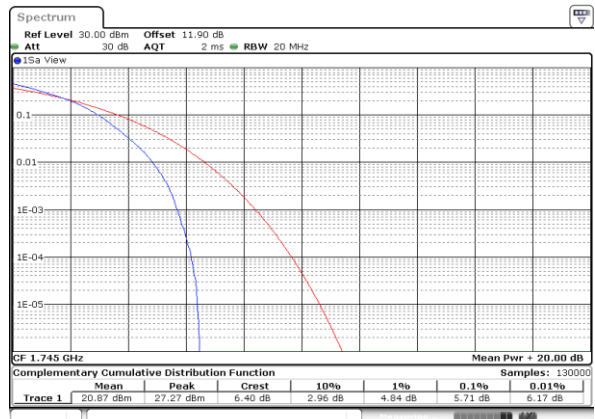
Date: 18_SEP.2020 15:00:16

Highest Channel / 1RB



Date: 18_SEP.2020 15:00:26

Highest Channel / Full RB

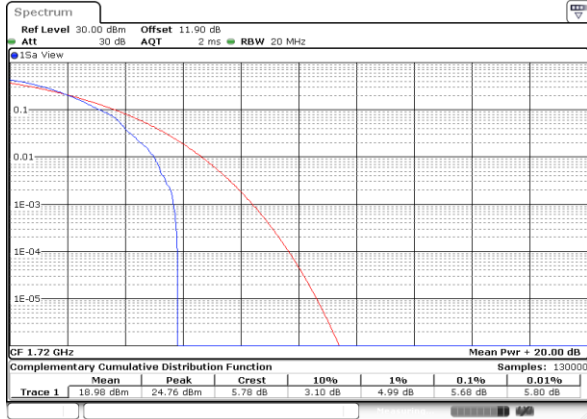


Date: 18_SEP.2020 15:00:37

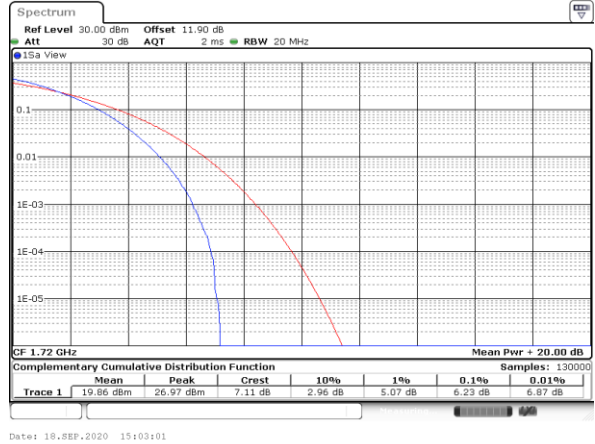


LTE Band 4 / 20MHz / 64QAM

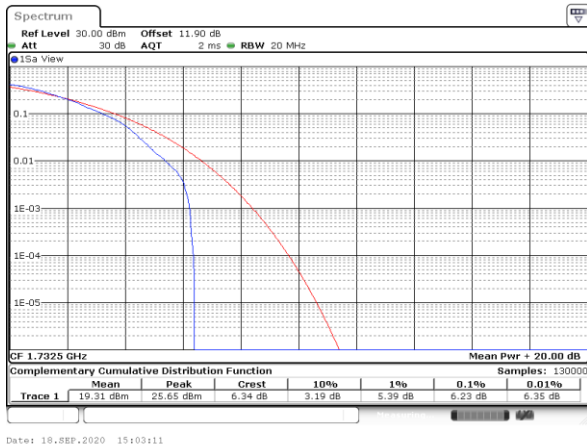
Lowest Channel / 1RB



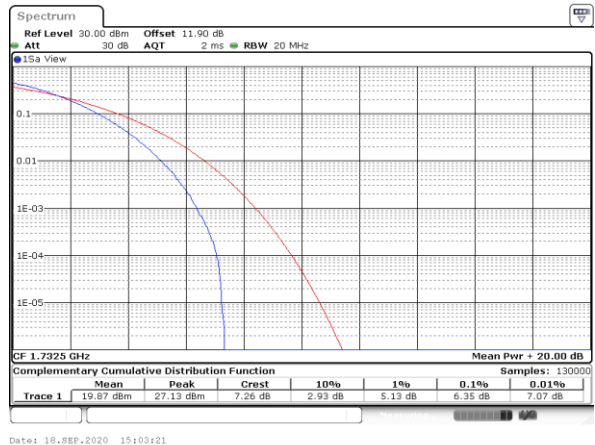
Lowest Channel / Full RB



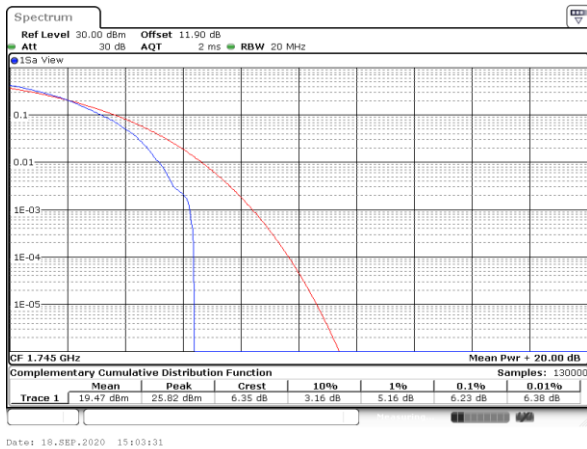
Middle Channel / 1RB



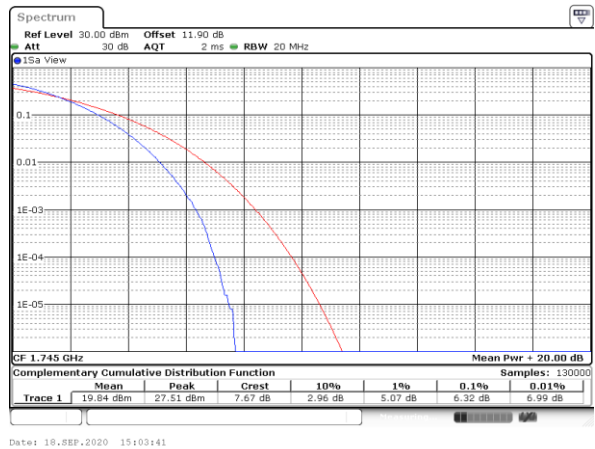
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





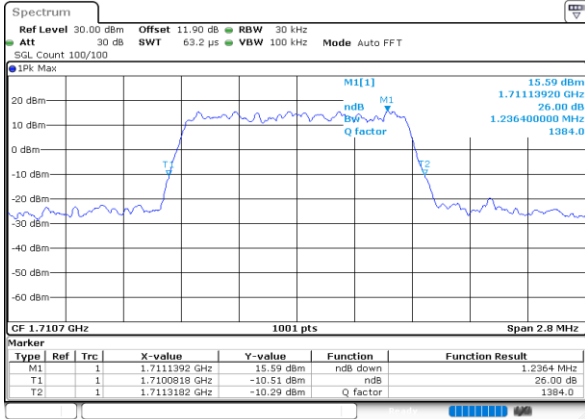
26dB Bandwidth

Mode	LTE Band 4 : 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	1.24	1.23	2.98	3.03	4.91	4.90	9.79	9.87	14.42	14.18	19.30	19.10
Middle CH	1.24	1.23	3.00	2.99	4.80	4.86	9.73	9.67	14.24	14.60	19.06	19.34
Highest CH	1.23	1.22	3.05	2.98	4.88	4.92	9.85	9.83	14.33	14.42	18.90	18.82
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.04	-	4.94	-	9.77	-	14.45	-	19.06	-
Middle CH	1.23	-	2.98	-	4.91	-	9.87	-	14.45	-	18.90	-
Highest CH	1.23	-	3.05	-	4.95	-	9.79	-	14.57	-	18.98	-



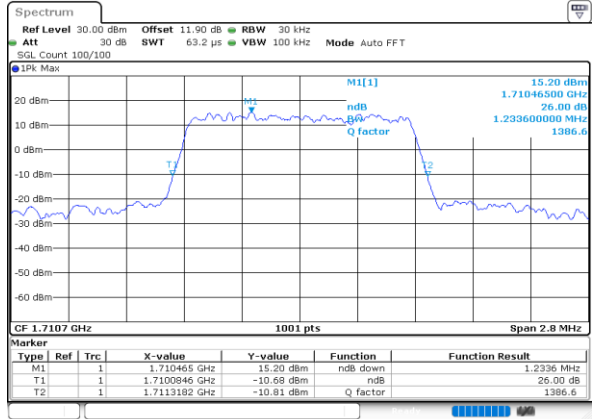
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



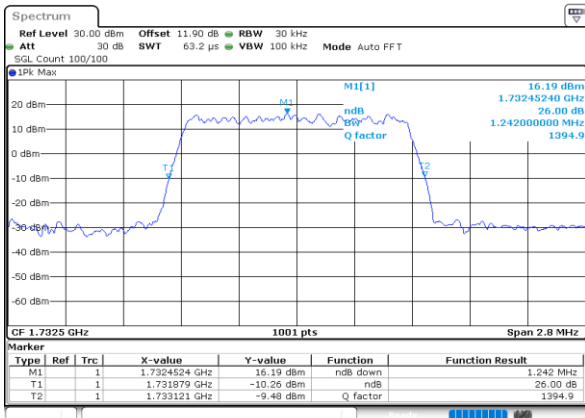
Date: 18_SEP.2020 13:33:15

Lowest Channel / 1.4MHz / 16QAM



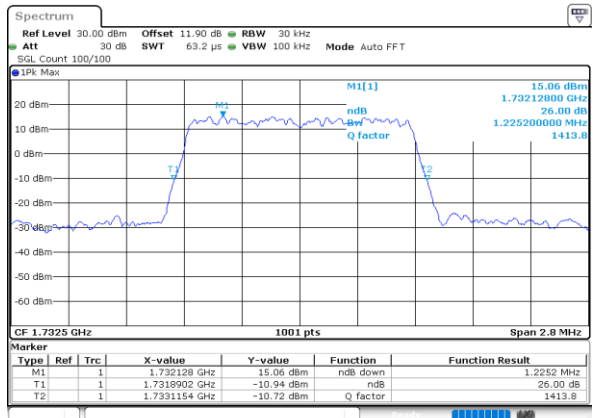
Date: 18_SEP.2020 13:33:27

Middle Channel / 1.4MHz / QPSK



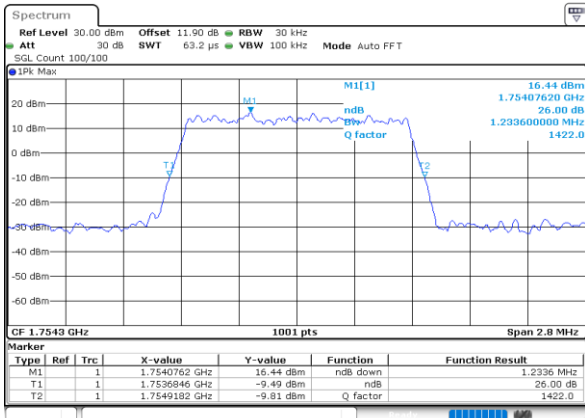
Date: 18_SEP.2020 13:35:19

Middle Channel / 1.4MHz / 16QAM



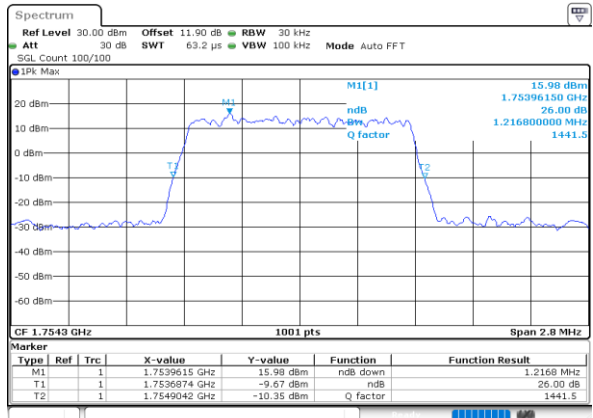
Date: 18_SEP.2020 13:35:30

Highest Channel / 1.4MHz / QPSK



Date: 18_SEP.2020 13:37:22

Highest Channel / 1.4MHz / 16QAM

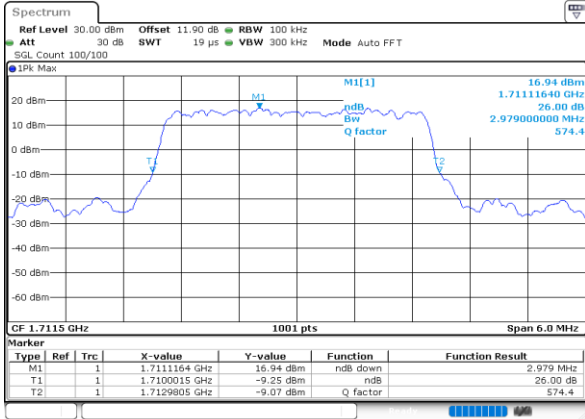


Date: 18_SEP.2020 13:37:34



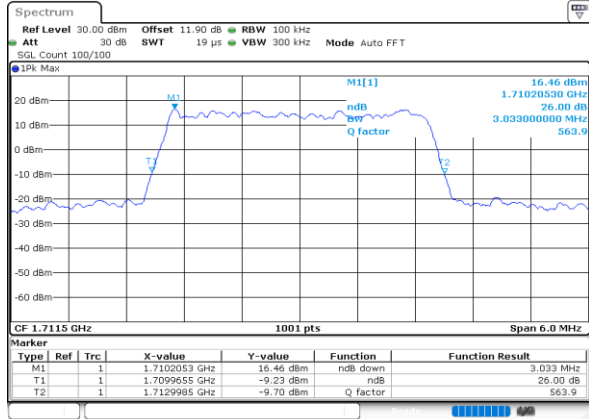
LTE Band 4

Lowest Channel / 3MHz / QPSK



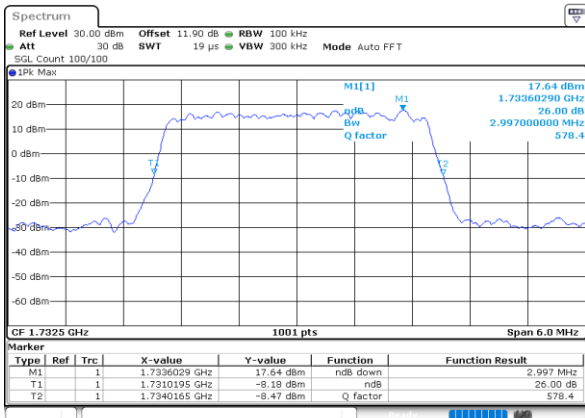
Date: 18_SEP.2020 13:42:33

Lowest Channel / 3MHz / 16QAM



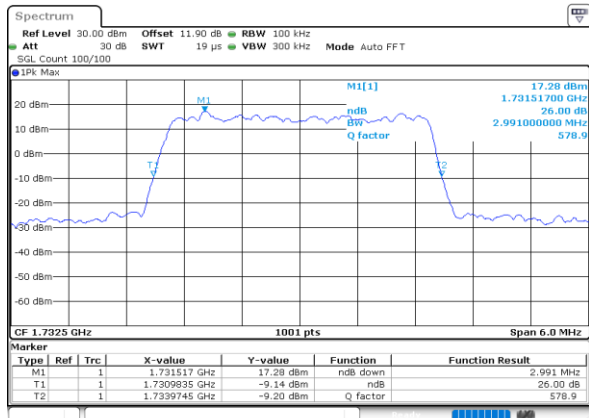
Date: 18_SEP.2020 13:42:45

Middle Channel / 3MHz / QPSK



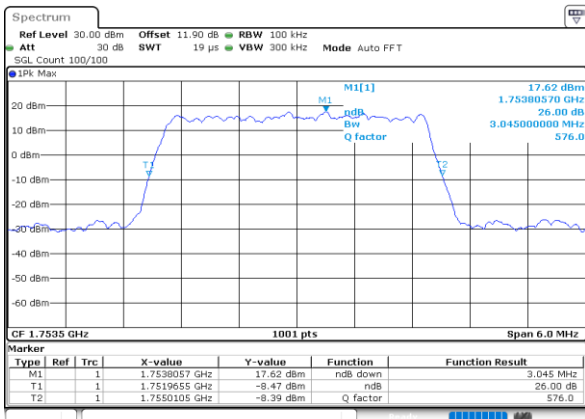
Date: 18_SEP.2020 13:46:55

Middle Channel / 3MHz / 16QAM



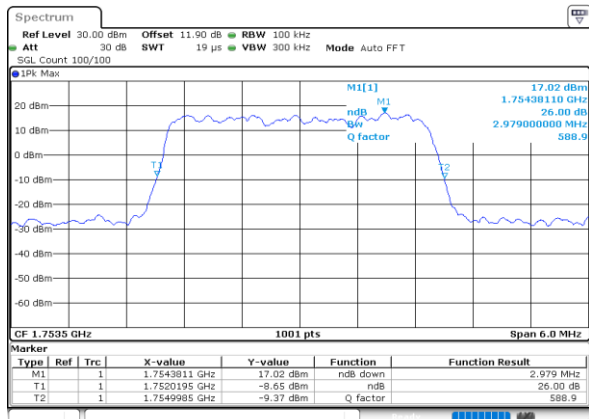
Date: 18_SEP.2020 13:47:06

Highest Channel / 3MHz / QPSK



Date: 18_SEP.2020 13:48:50

Highest Channel / 3MHz / 16QAM

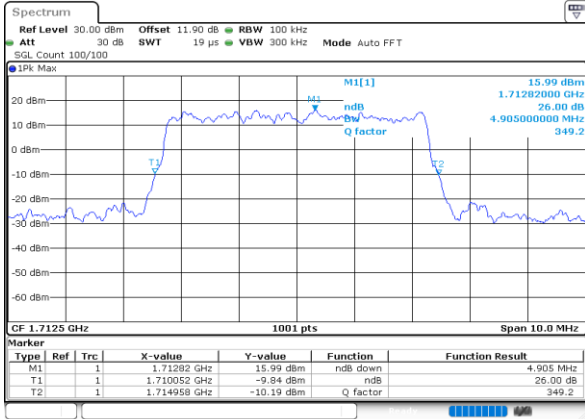


Date: 18_SEP.2020 13:49:10



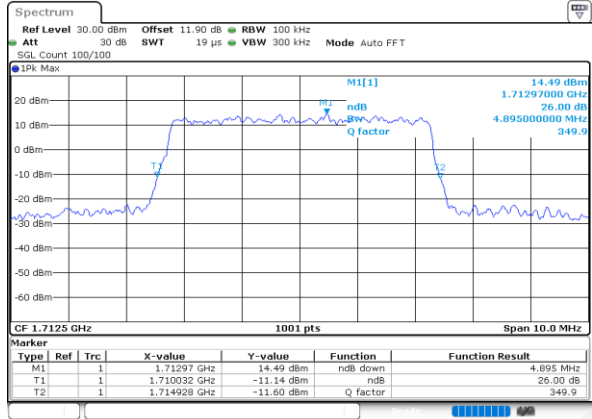
LTE Band 4

Lowest Channel / 5MHz / QPSK



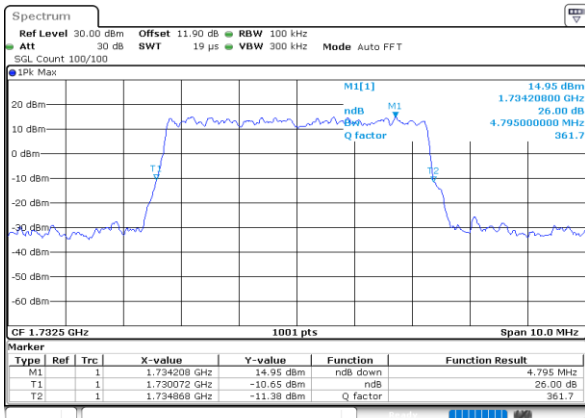
Date: 18_SEP.2020 14:03:50

Lowest Channel / 5MHz / 16QAM



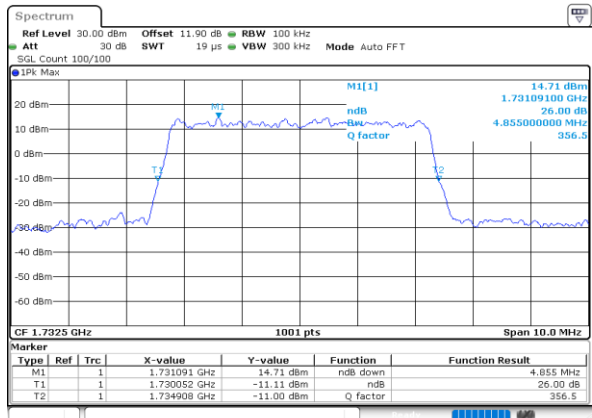
Date: 18_SEP.2020 14:04:02

Middle Channel / 5MHz / QPSK



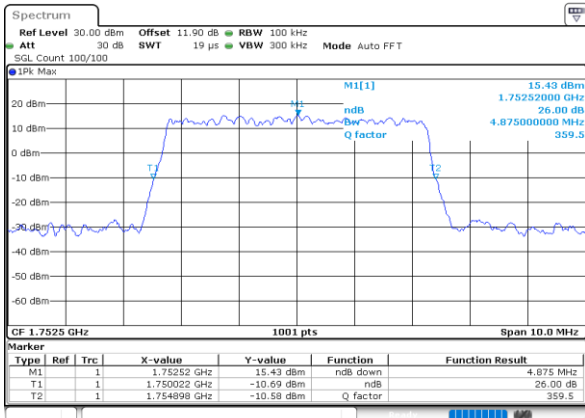
Date: 18_SEP.2020 14:07:54

Middle Channel / 5MHz / 16QAM



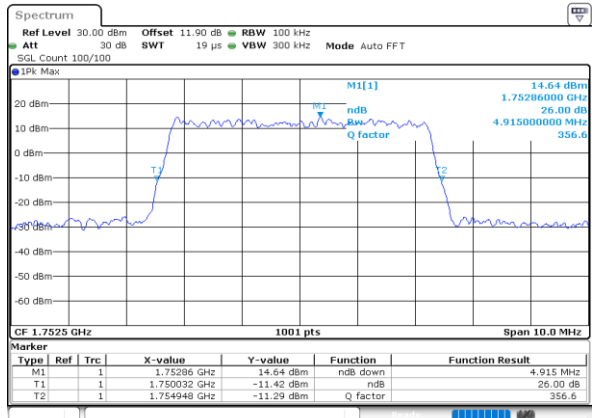
Date: 18_SEP.2020 14:10:05

Highest Channel / 5MHz / QPSK



Date: 18_SEP.2020 14:09:57

Highest Channel / 5MHz / 16QAM

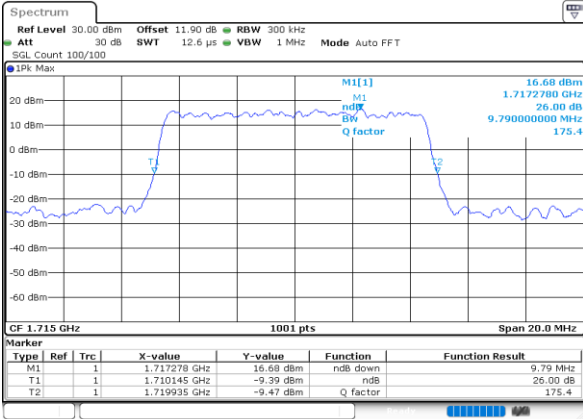


Date: 18_SEP.2020 14:10:09



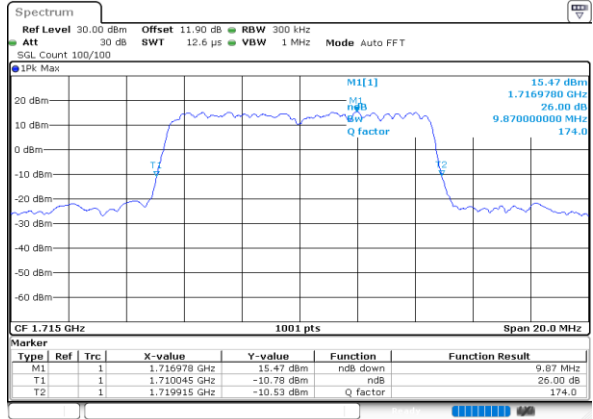
LTE Band 4

Lowest Channel / 10MHz / QPSK



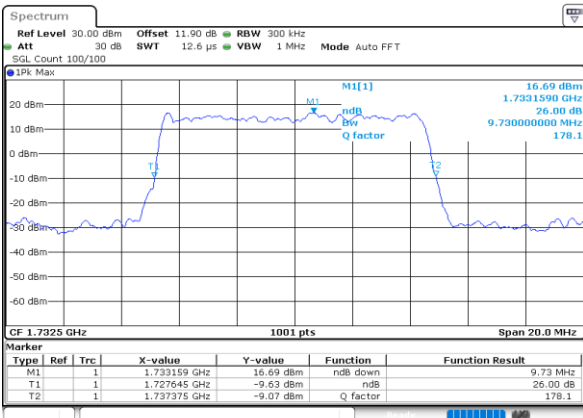
Date: 18_SEP.2020 14:14:02

Lowest Channel / 10MHz / 16QAM



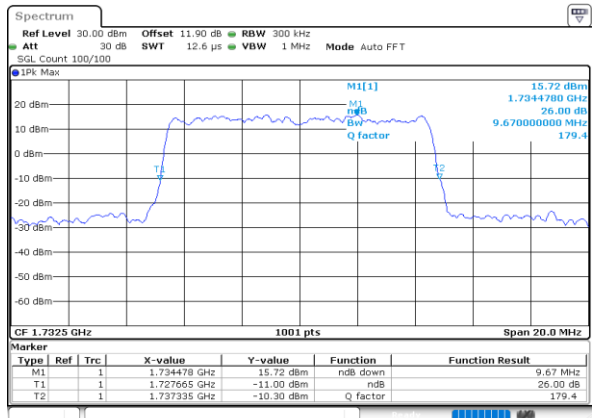
Date: 18_SEP.2020 14:14:14

Middle Channel / 10MHz / QPSK



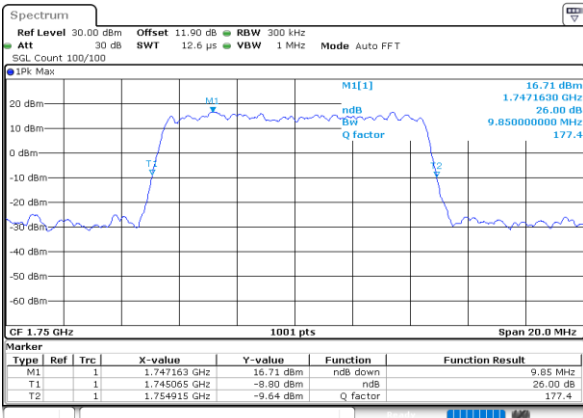
Date: 18_SEP.2020 14:18:06

Middle Channel / 10MHz / 16QAM



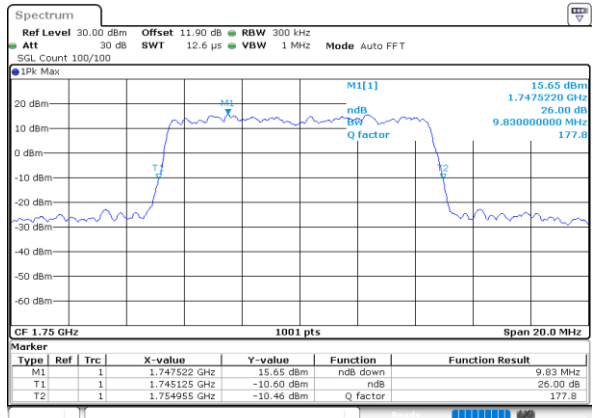
Date: 18_SEP.2020 14:18:17

Highest Channel / 10MHz / QPSK



Date: 18_SEP.2020 14:20:09

Highest Channel / 10MHz / 16QAM

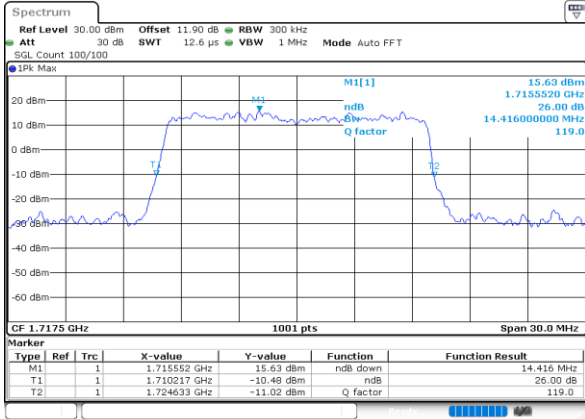


Date: 18_SEP.2020 14:20:21



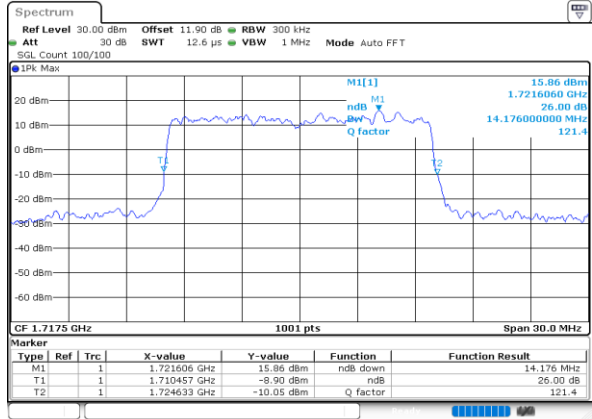
LTE Band 4

Lowest Channel / 15MHz / QPSK



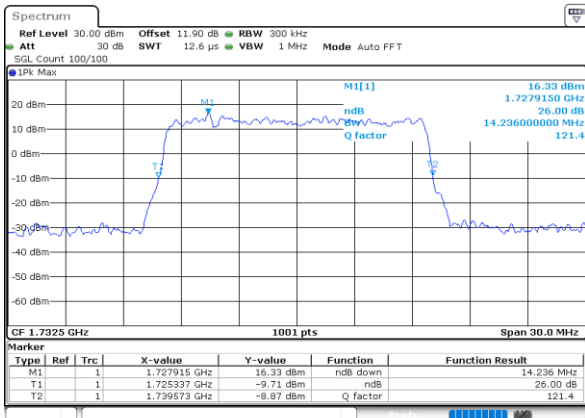
Date: 18_SEP.2020 14:29:21

Lowest Channel / 15MHz / 16QAM



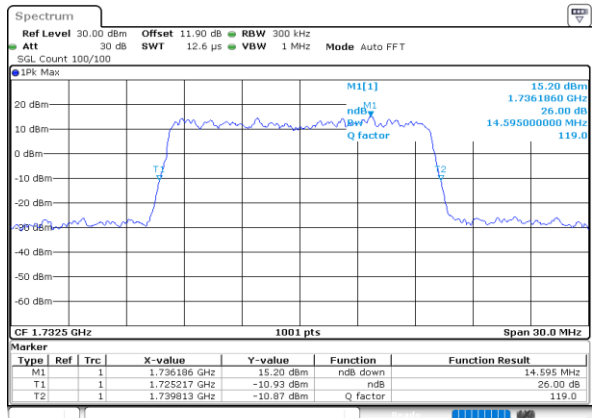
Date: 18_SEP.2020 14:29:33

Middle Channel / 15MHz / QPSK



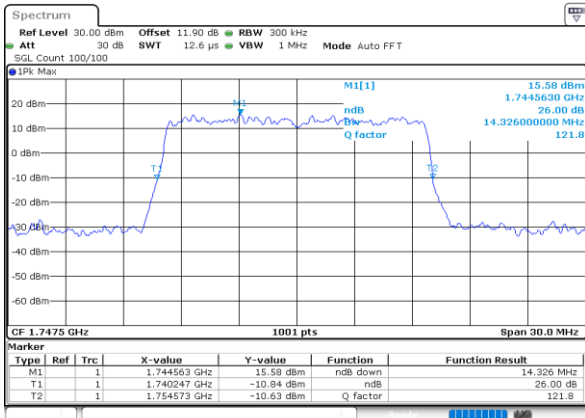
Date: 18_SEP.2020 14:33:25

Middle Channel / 15MHz / 16QAM



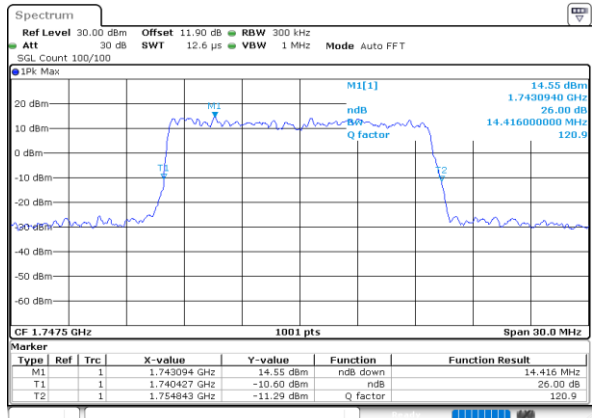
Date: 18_SEP.2020 14:33:36

Highest Channel / 15MHz / QPSK



Date: 18_SEP.2020 14:35:28

Highest Channel / 15MHz / 16QAM

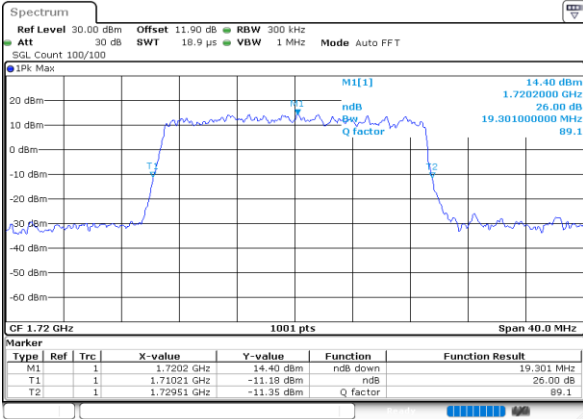


Date: 18_SEP.2020 14:35:40



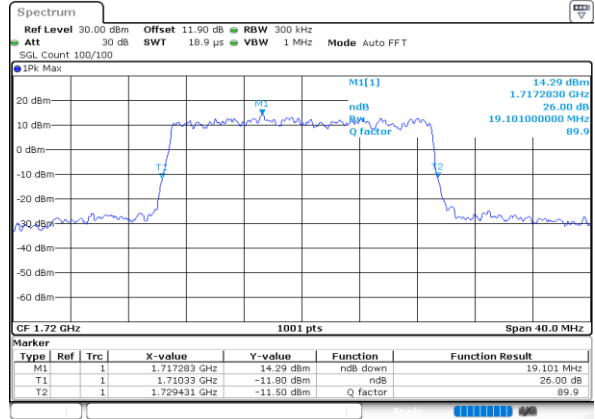
LTE Band 4

Lowest Channel / 20MHz / QPSK



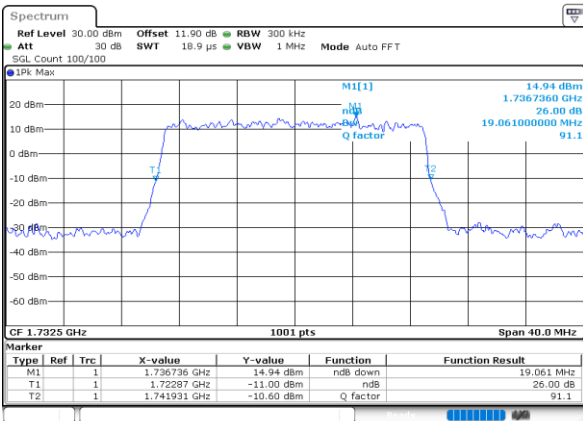
Date: 18_SEP.2020 14:44:39

Lowest Channel / 20MHz / 16QAM



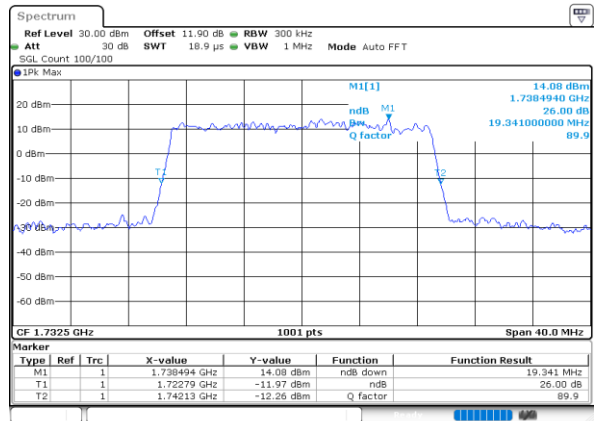
Date: 18_SEP.2020 14:44:51

Middle Channel / 20MHz / QPSK



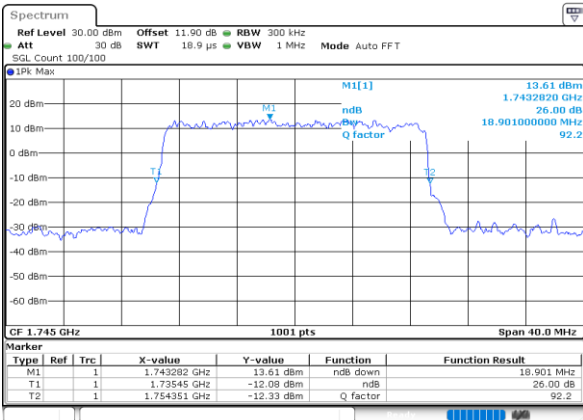
Date: 18_SEP.2020 14:48:43

Middle Channel / 20MHz / 16QAM



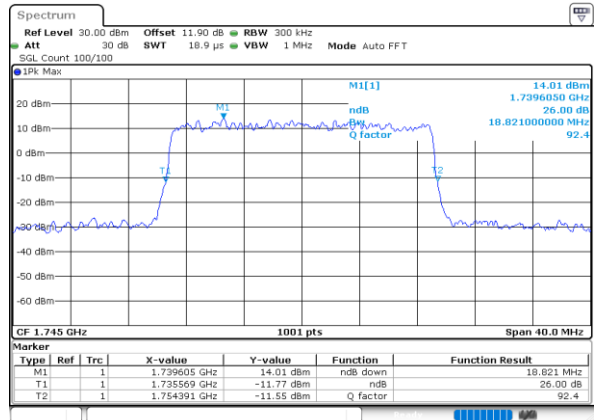
Date: 18_SEP.2020 14:48:54

Highest Channel / 20MHz / QPSK



Date: 18_SEP.2020 14:50:46

Highest Channel / 20MHz / 16QAM

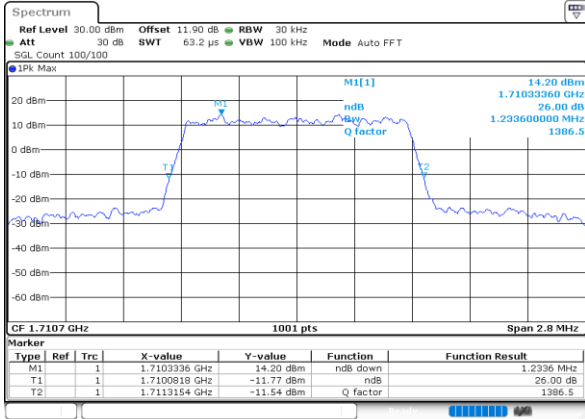


Date: 18_SEP.2020 14:50:58



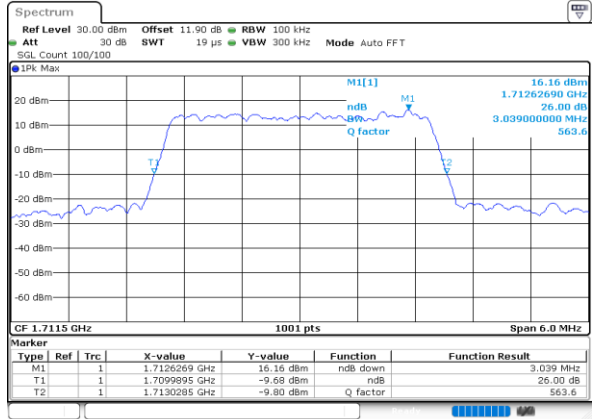
LTE Band 4

Lowest Channel / 1.4MHz / 64QAM



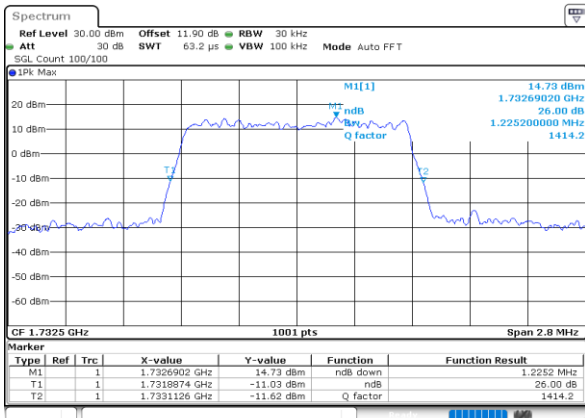
Date: 18_SEP.2020 13:39:15

Lowest Channel / 3MHz / 64QAM



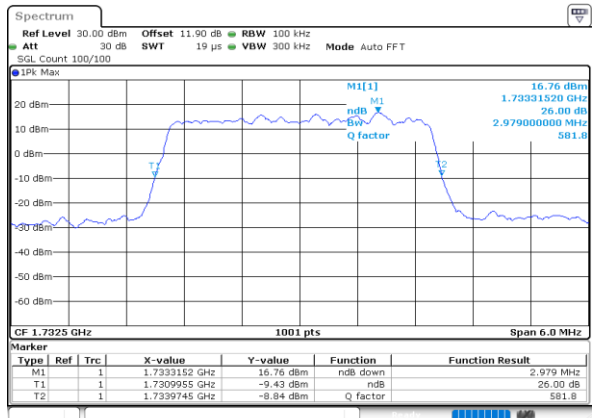
Date: 18_SEP.2020 13:53:09

Middle Channel / 1.4MHz / 64QAM



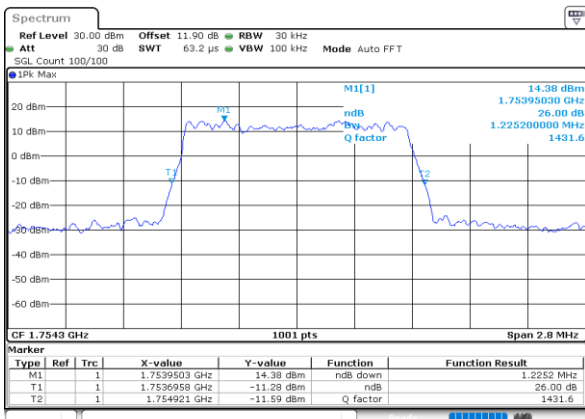
Date: 18_SEP.2020 13:40:17

Middle Channel / 3MHz / 64QAM



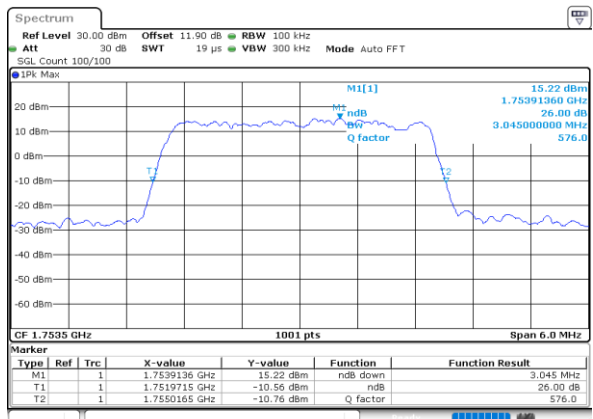
Date: 18_SEP.2020 13:55:19

Highest Channel / 1.4MHz / 64QAM



Date: 18_SEP.2020 13:41:19

Highest Channel / 3MHz / 64QAM

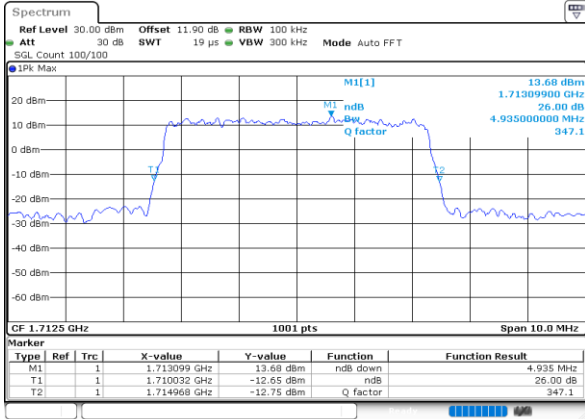


Date: 18_SEP.2020 13:56:21



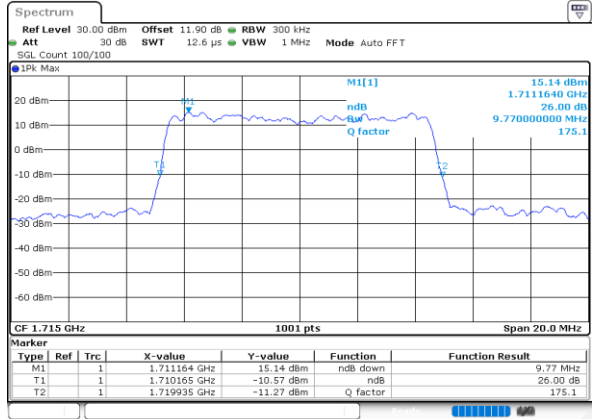
LTE Band 4

Lowest Channel / 5MHz / 64QAM



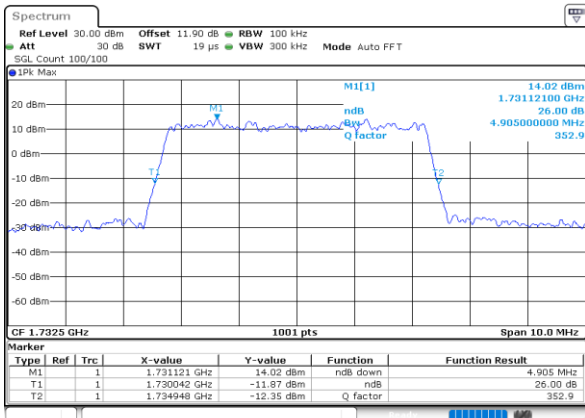
Date: 18_SEP.2020 13:58:33

Lowest Channel / 10MHz / 64QAM



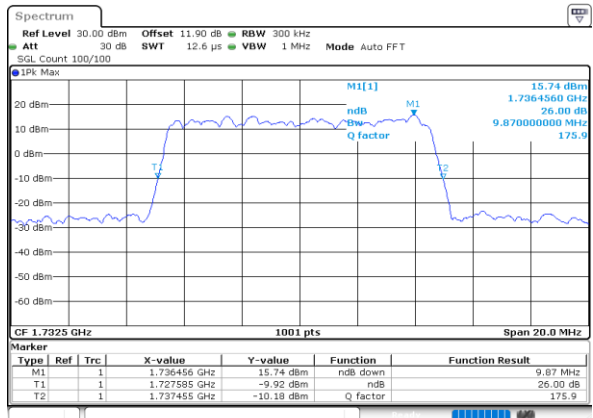
Date: 18_SEP.2020 14:24:02

Middle Channel / 5MHz / 64QAM



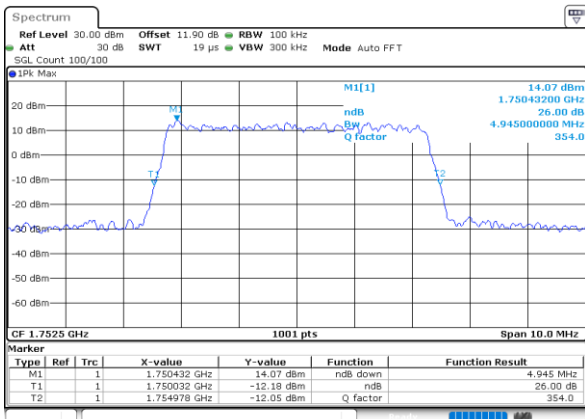
Date: 18_SEP.2020 14:00:34

Middle Channel / 10MHz / 64QAM



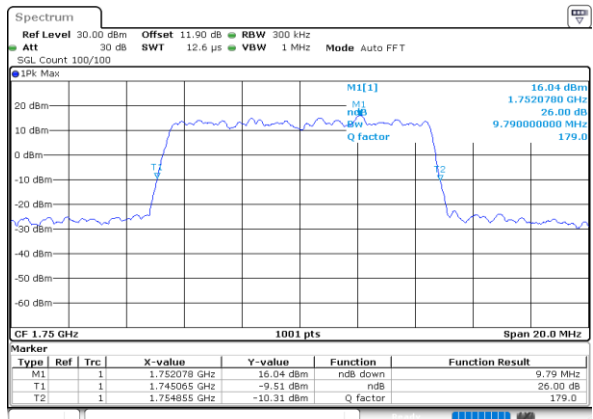
Date: 18_SEP.2020 14:26:04

Highest Channel / 5MHz / 64QAM



Date: 18_SEP.2020 14:01:36

Highest Channel / 10MHz / 64QAM

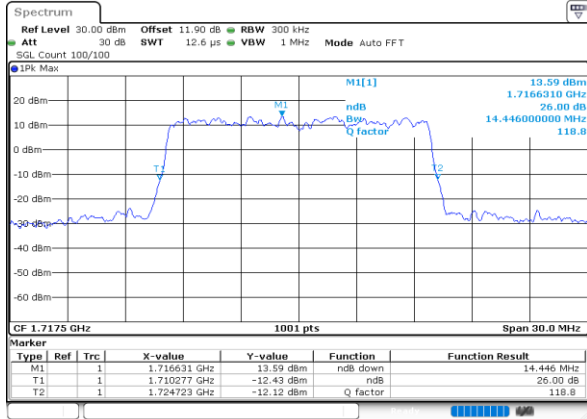


Date: 18_SEP.2020 14:27:06



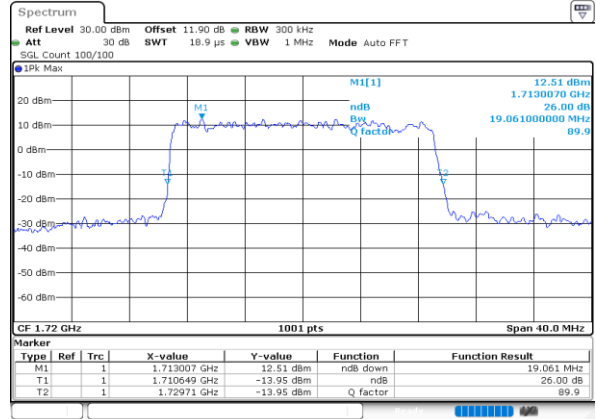
LTE Band 4

Lowest Channel / 15MHz / 64QAM



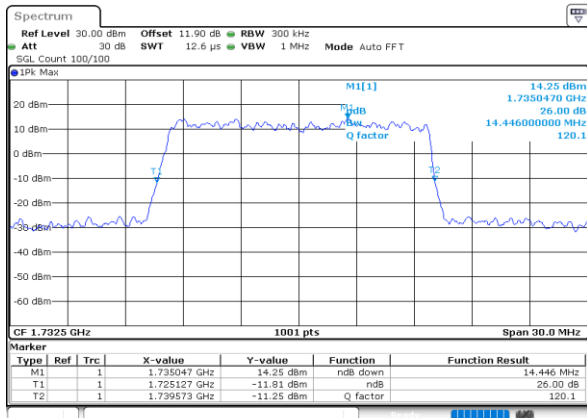
Date: 18_SEP.2020 14:39:21

Lowest Channel / 20MHz / 64QAM



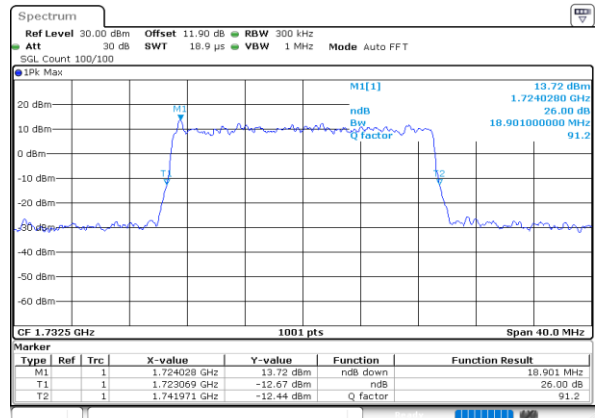
Date: 18_SEP.2020 14:54:39

Middle Channel / 15MHz / 64QAM



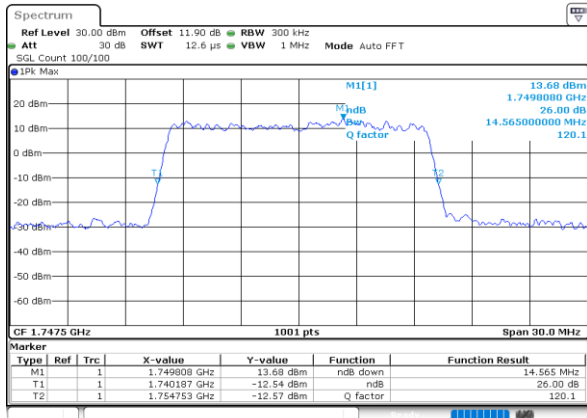
Date: 18_SEP.2020 14:41:22

Middle Channel / 20MHz / 64QAM



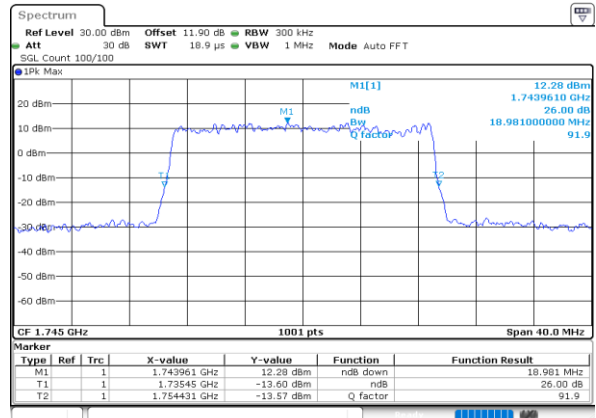
Date: 18_SEP.2020 14:56:41

Highest Channel / 15MHz / 64QAM



Date: 18_SEP.2020 14:42:24

Highest Channel / 20MHz / 64QAM



Date: 18_SEP.2020 14:57:43



Occupied Bandwidth

Mode	LTE Band 4 : 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	1.09	1.09	2.70	2.73	4.48	4.49	8.97	9.05	13.40	13.43	17.90	17.90
Middle CH	1.09	1.09	2.72	2.72	4.50	4.48	9.05	9.03	13.37	13.40	17.82	17.82
Highest CH	1.09	1.10	2.72	2.70	4.53	4.49	9.01	9.07	13.49	13.40	17.82	17.90
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.50	-	9.01	-	13.40	-	17.90	-
Middle CH	1.09	-	2.71	-	4.51	-	9.01	-	13.37	-	17.90	-
Highest CH	1.09	-	2.74	-	4.51	-	9.07	-	13.40	-	17.82	-