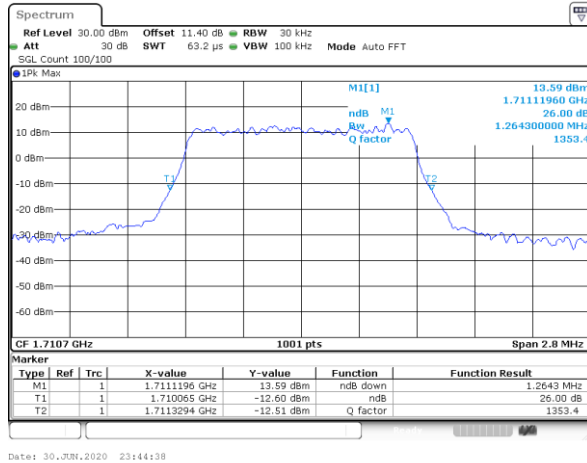


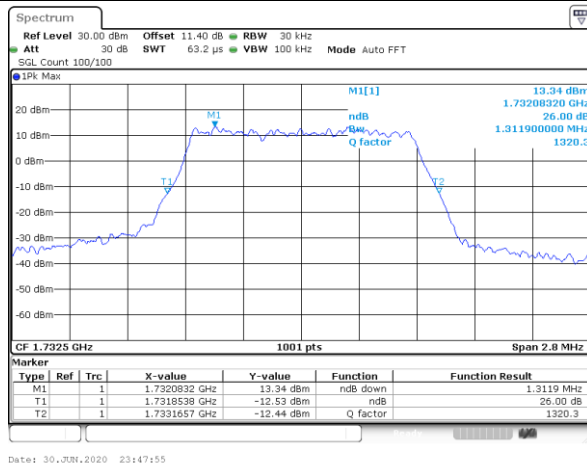


LTE Band 4

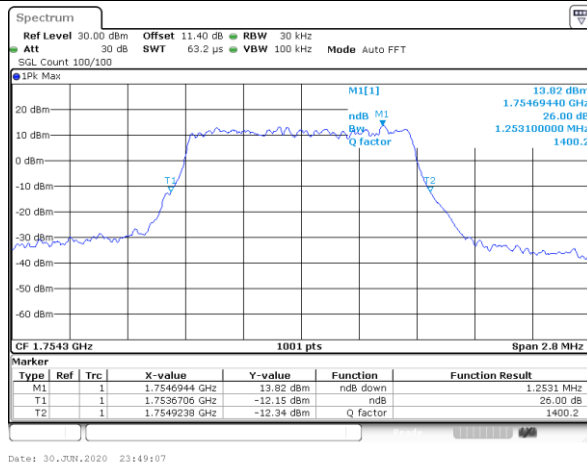
Lowest Channel / 1.4MHz / 16QAM



Middle Channel / 1.4MHz / 16QAM



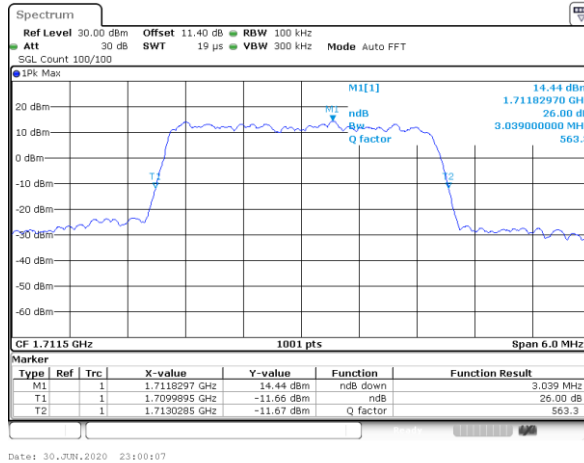
Highest Channel / 1.4MHz / 16QAM



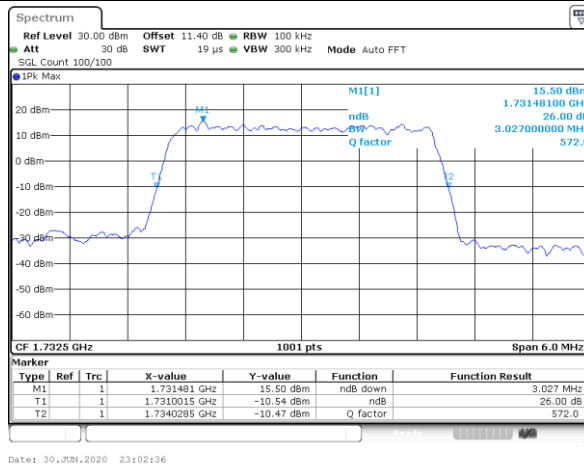


LTE Band 4

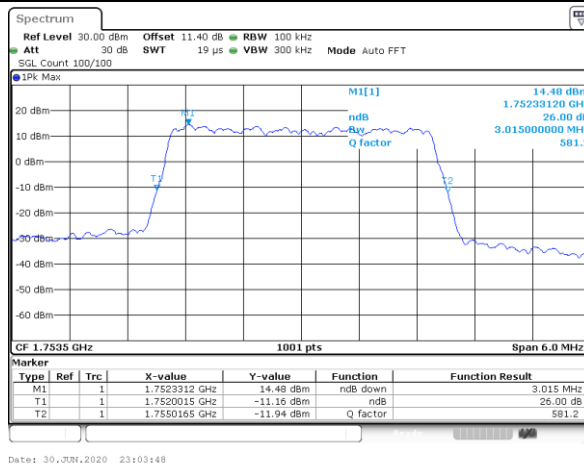
Lowest Channel / 3MHz / 16QAM



Middle Channel / 3MHz / 16QAM



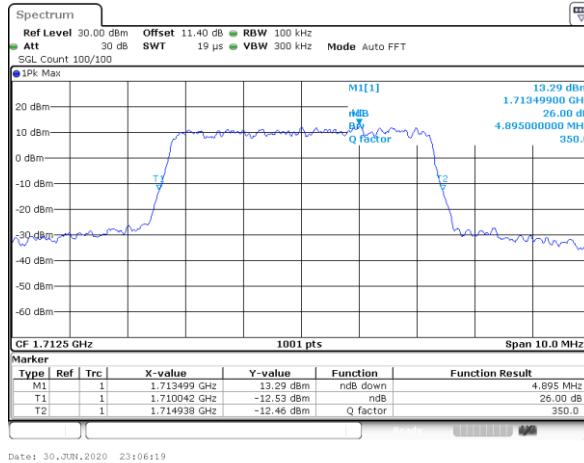
Highest Channel / 3MHz / 16QAM



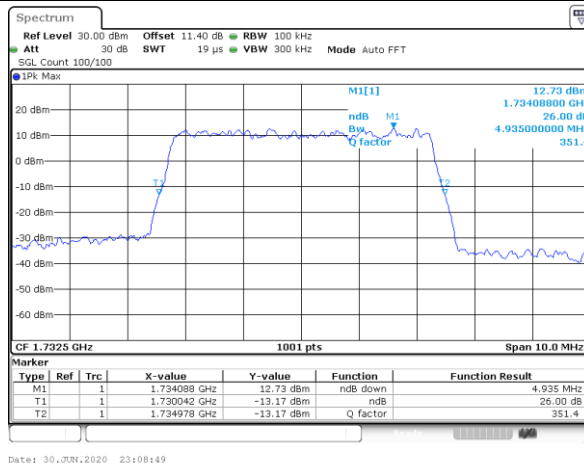


LTE Band 4

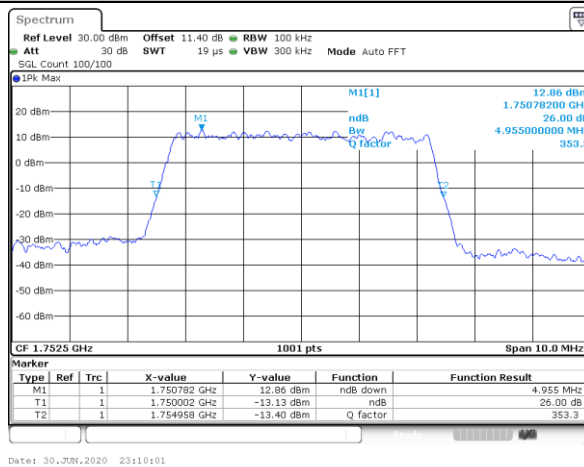
Lowest Channel / 5MHz / 16QAM



Middle Channel / 5MHz / 16QAM



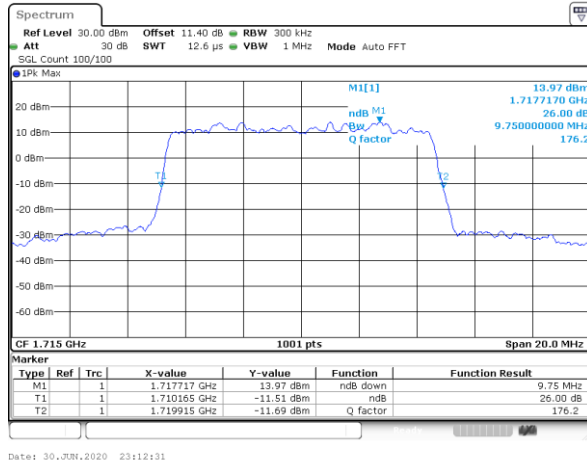
Highest Channel / 5MHz / 16QAM



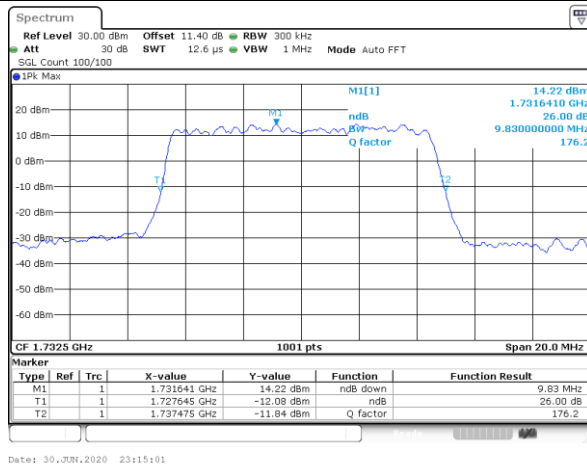


LTE Band 4

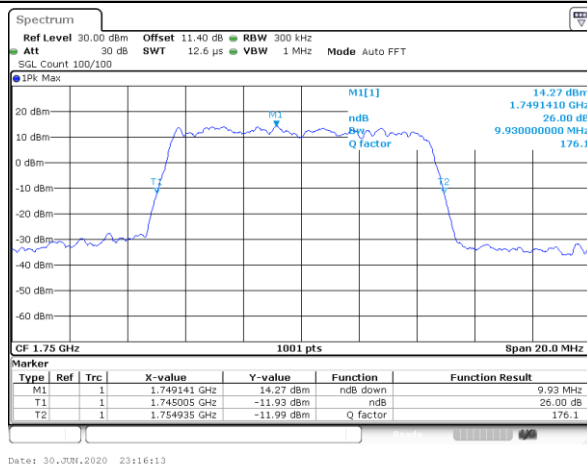
Lowest Channel / 10MHz / 16QAM



Middle Channel / 10MHz / 16QAM



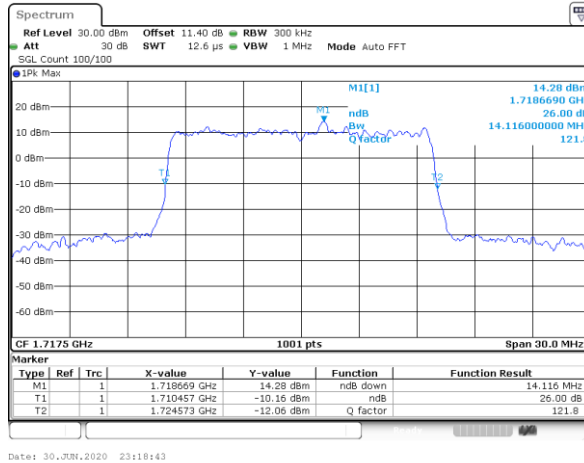
Highest Channel / 10MHz / 16QAM



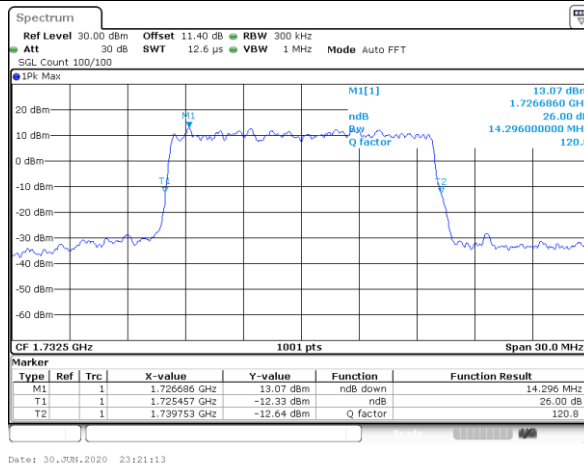


LTE Band 4

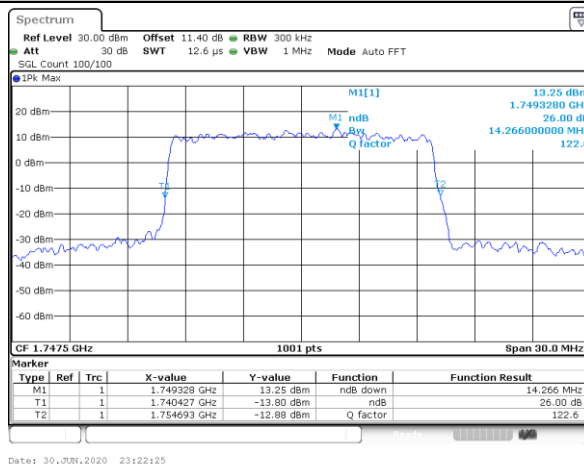
Lowest Channel / 15MHz / 16QAM



Middle Channel / 15MHz / 16QAM



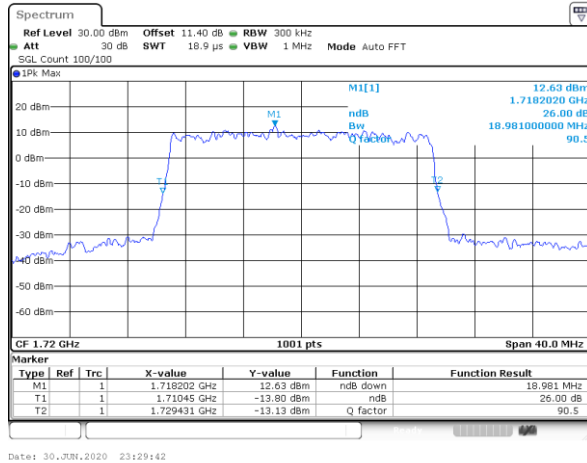
Highest Channel / 15MHz / 16QAM





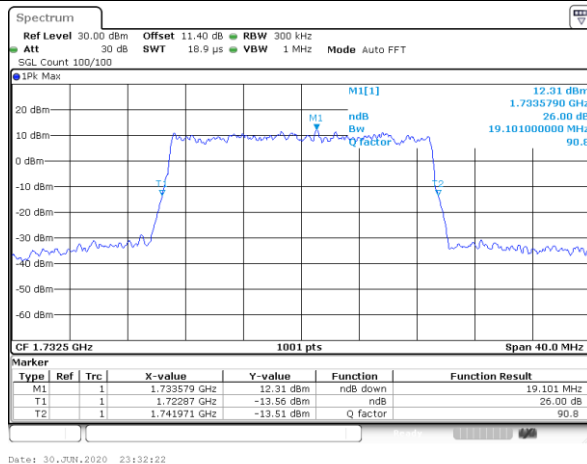
LTE Band 4

Lowest Channel / 20MHz / 16QAM



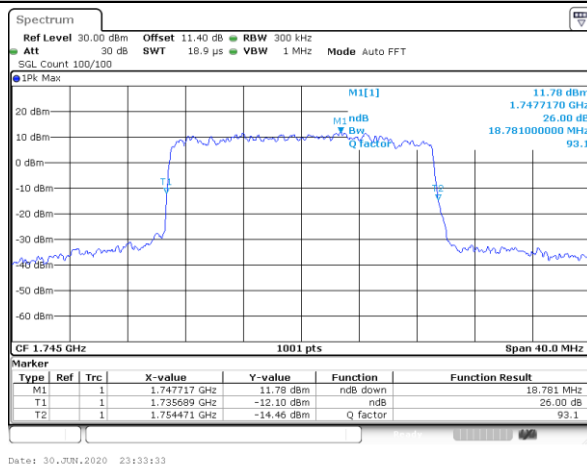
Date: 30 JUN 2020 23:29:42

Middle Channel / 20MHz / 16QAM



Date: 30 JUN 2020 23:32:22

Highest Channel / 20MHz / 16QAM



Date: 30 JUN 2020 23:33:33



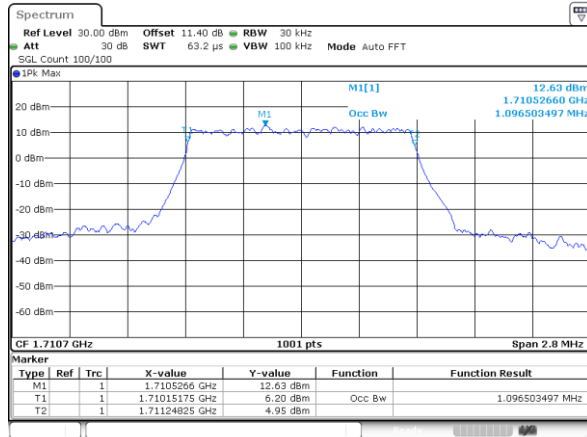
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	1.10	-	2.72	-	4.49	-	8.97	-	13.37	-	17.86
Middle CH	-	1.09	-	2.73	-	4.49	-	9.01	-	13.49	-	17.82
Highest CH	-	1.09	-	2.73	-	4.51	-	8.99	-	13.40	-	17.78



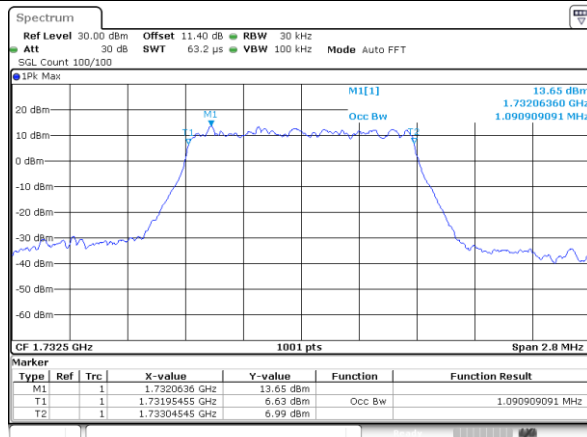
LTE Band 4

Lowest Channel / 1.4MHz / 16QAM



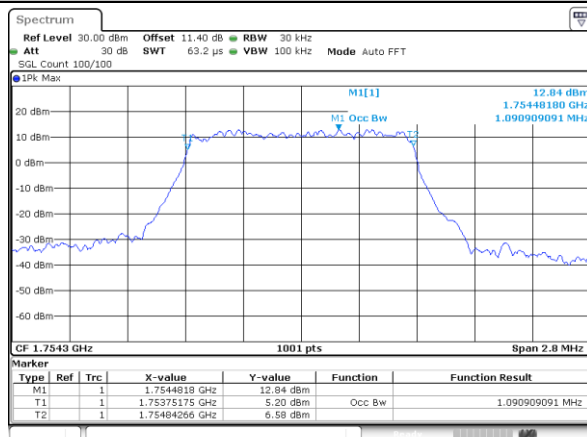
Date: 30 JUN 2020 23:44:27

Middle Channel / 1.4MHz / 16QAM



Date: 30 JUN 2020 23:47:44

Highest Channel / 1.4MHz / 16QAM

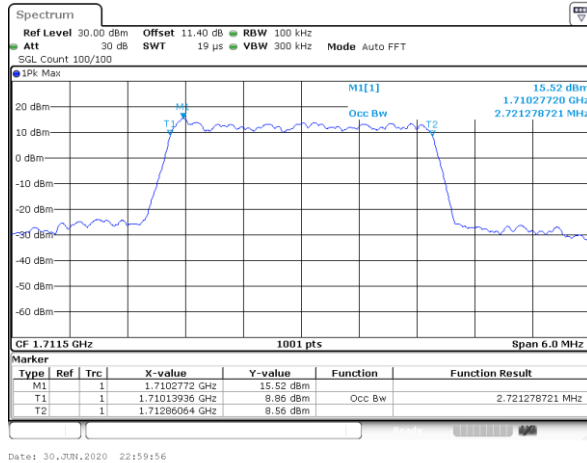


Date: 30 JUN 2020 23:48:56

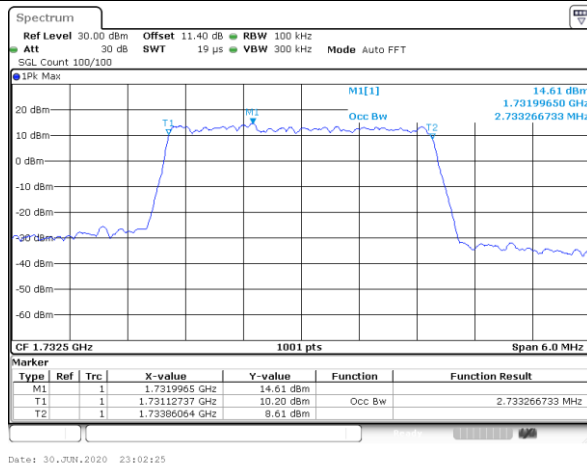


LTE Band 4

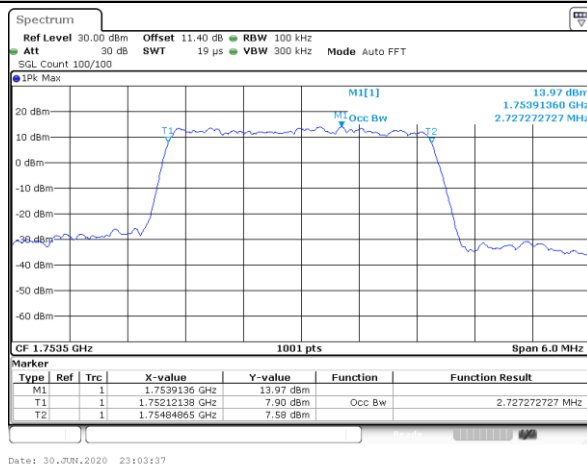
Lowest Channel / 3MHz / 16QAM



Middle Channel / 3MHz / 16QAM



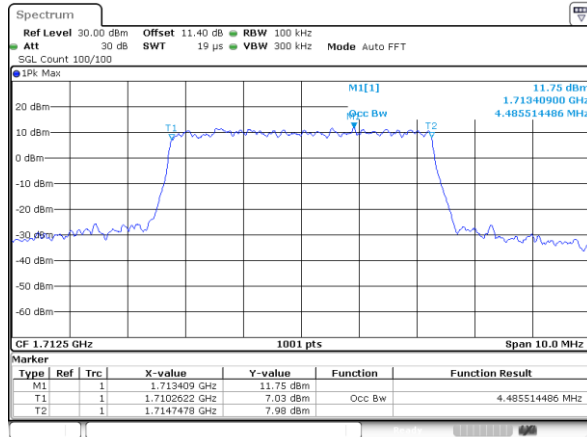
Highest Channel / 3MHz / 16QAM





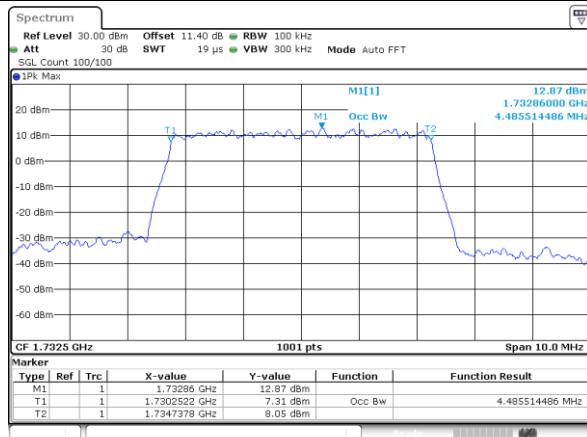
LTE Band 4

Lowest Channel / 5MHz / 16QAM



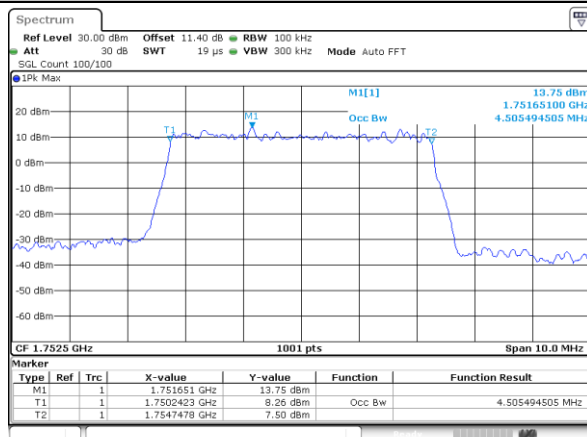
Date: 30 JUN 2020 23:06:08

Middle Channel / 5MHz / 16QAM



Date: 30 JUN 2020 23:08:38

Highest Channel / 5MHz / 16QAM

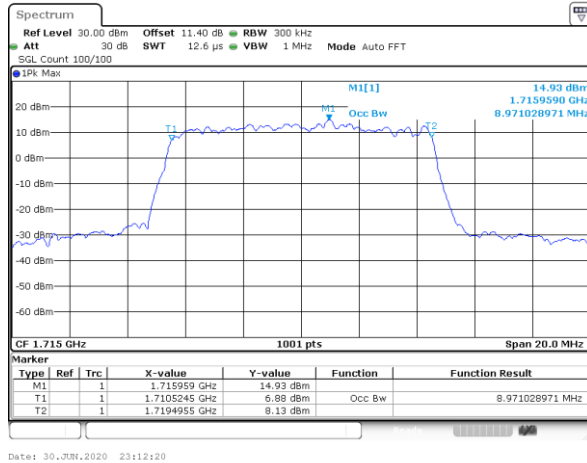


Date: 30 JUN 2020 23:09:49

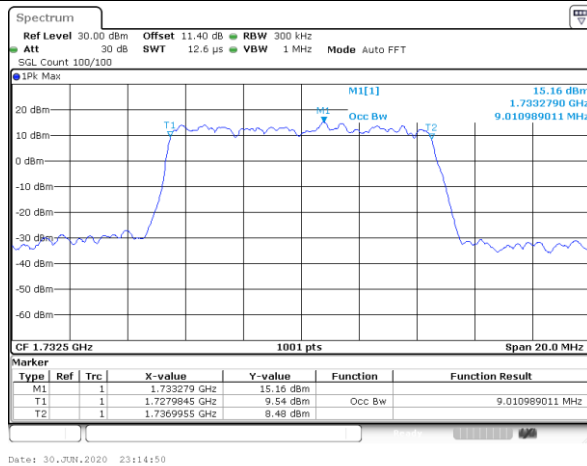


LTE Band 4

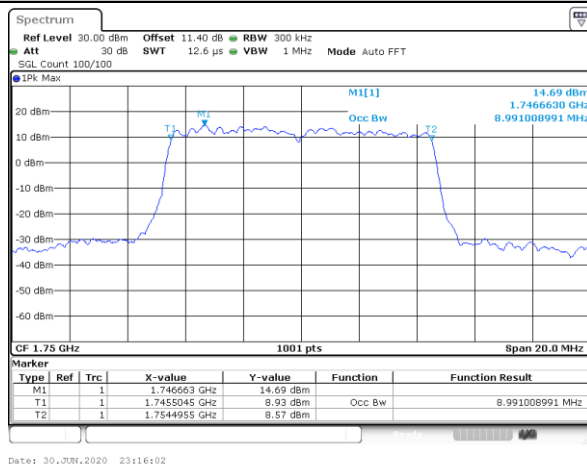
Lowest Channel / 10MHz / 16QAM



Middle Channel / 10MHz / 16QAM



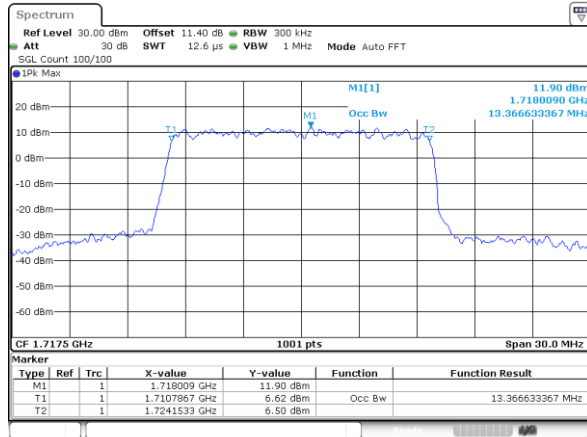
Highest Channel / 10MHz / 16QAM





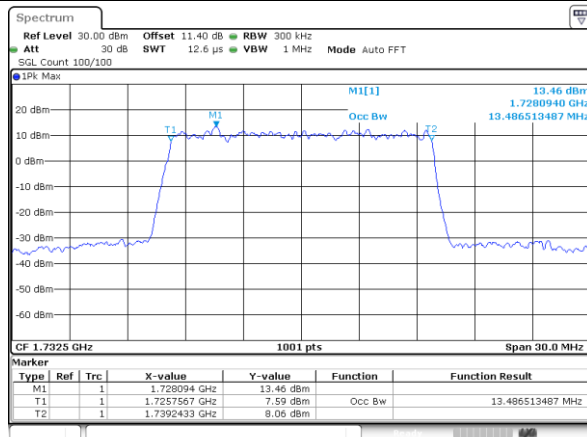
LTE Band 4

Lowest Channel / 15MHz / 16QAM



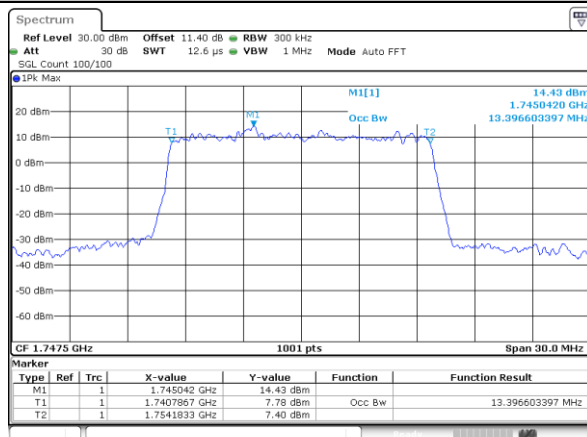
Date: 30 JUN 2020 23:18:32

Middle Channel / 15MHz / 16QAM



Date: 30 JUN 2020 23:21:02

Highest Channel / 15MHz / 16QAM

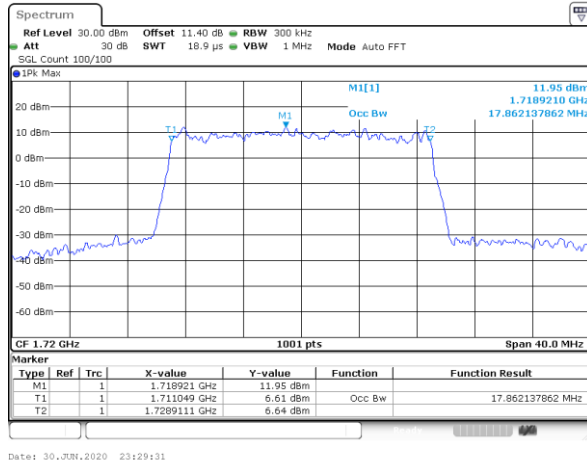


Date: 30 JUN 2020 23:22:14



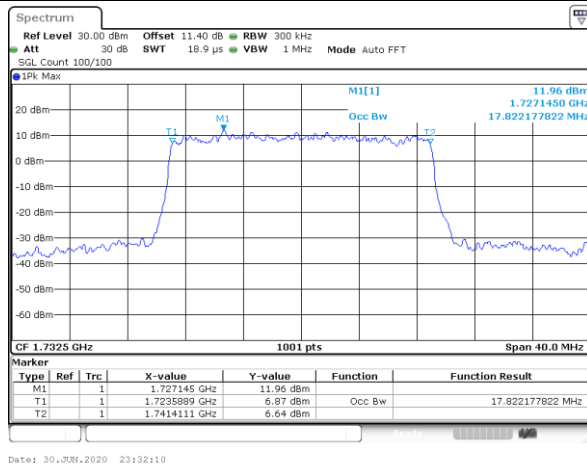
LTE Band 4

Lowest Channel / 20MHz / 16QAM



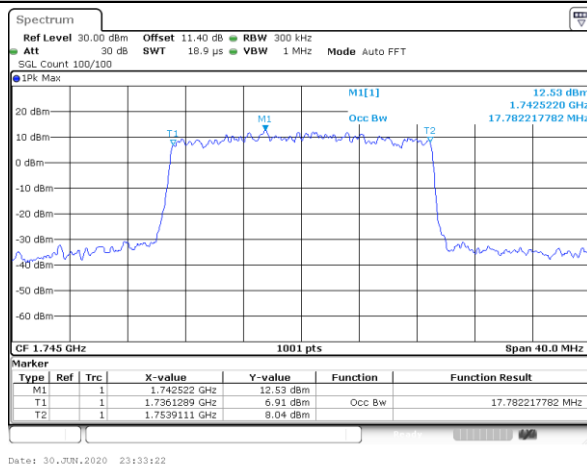
Date: 30 JUN 2020 23:29:31

Middle Channel / 20MHz / 16QAM



Date: 30 JUN 2020 23:32:10

Highest Channel / 20MHz / 16QAM



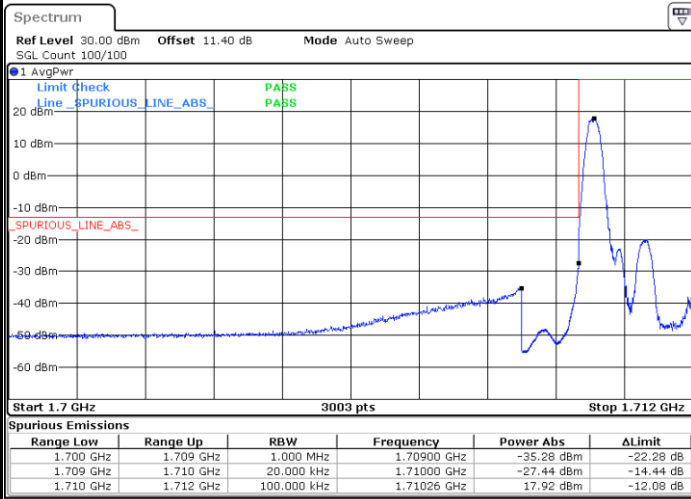
Date: 30 JUN 2020 23:33:22



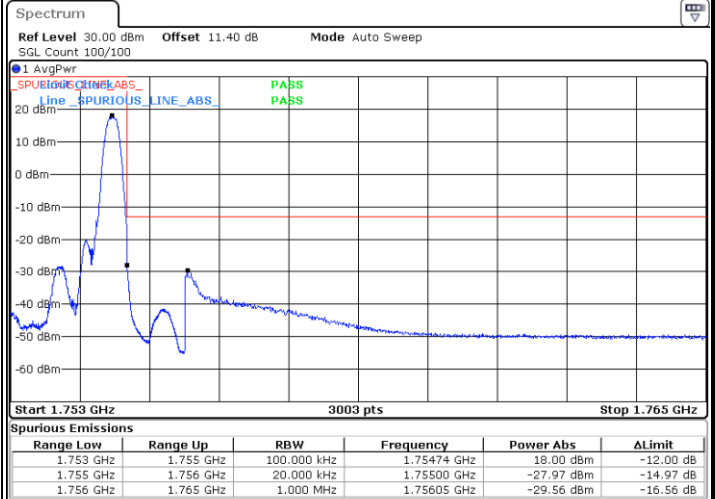
Conducted Band Edge

LTE Band 4 / 1.4MHz / 16QAM

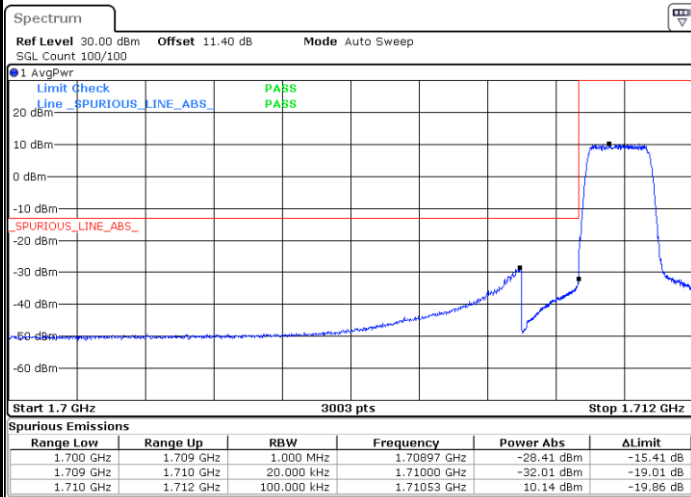
Lowest Band Edge / 1 RB



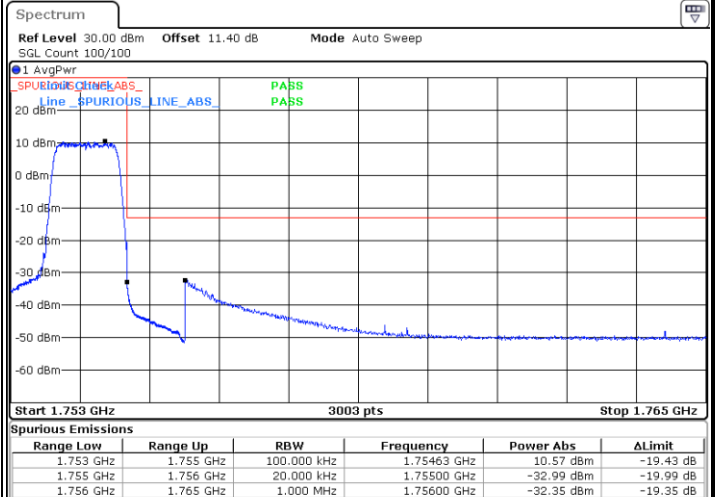
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

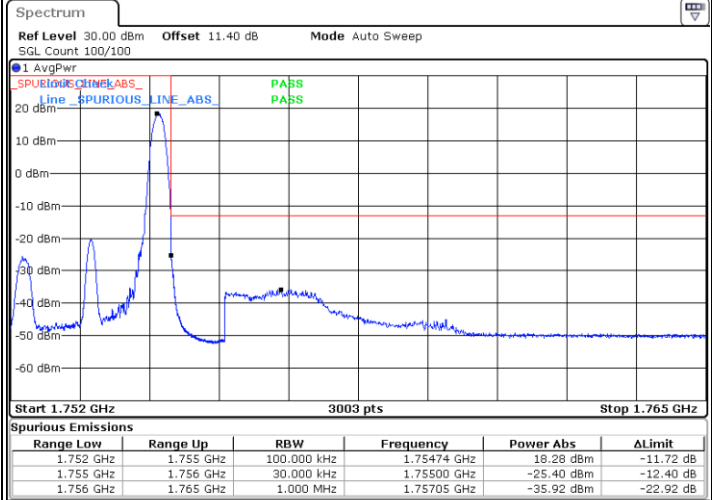
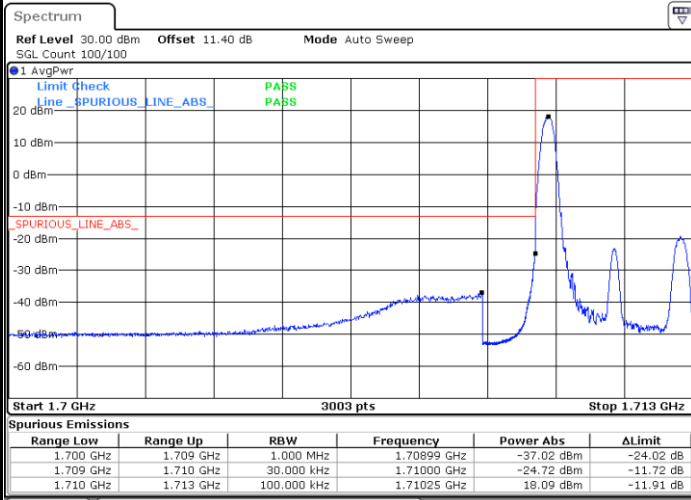




LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

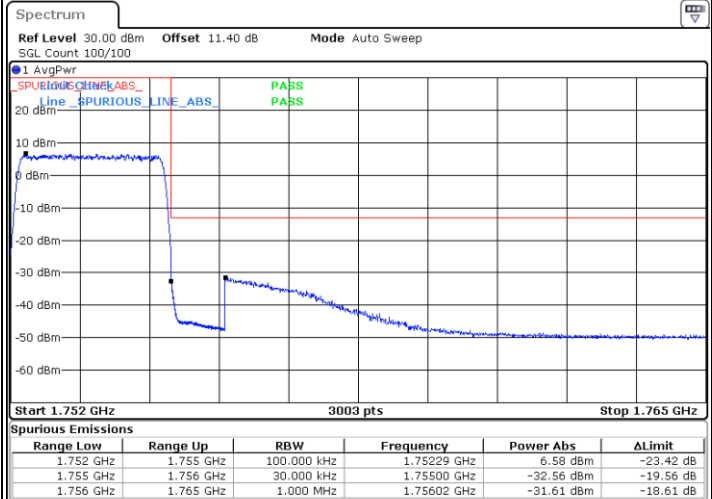
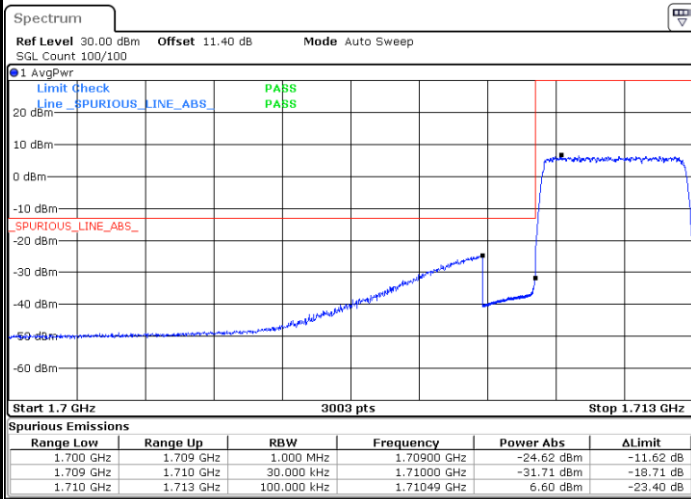


Date: 30 JUN.2020 23:00:47

Date: 30 JUN.2020 23:04:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



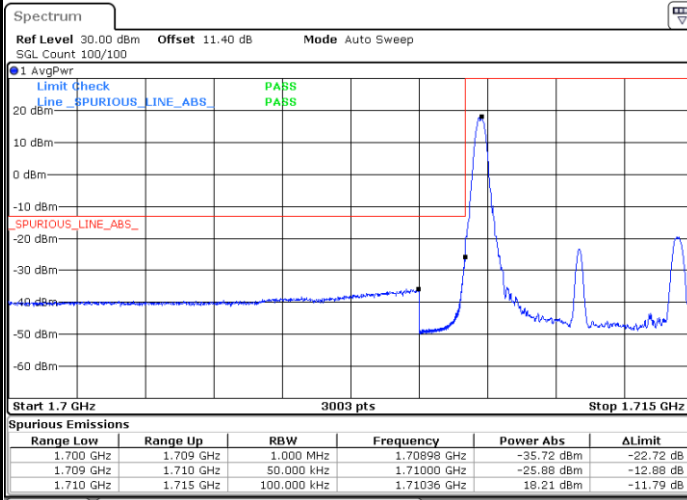
Date: 30 JUN.2020 23:01:26

Date: 30 JUN.2020 23:05:07



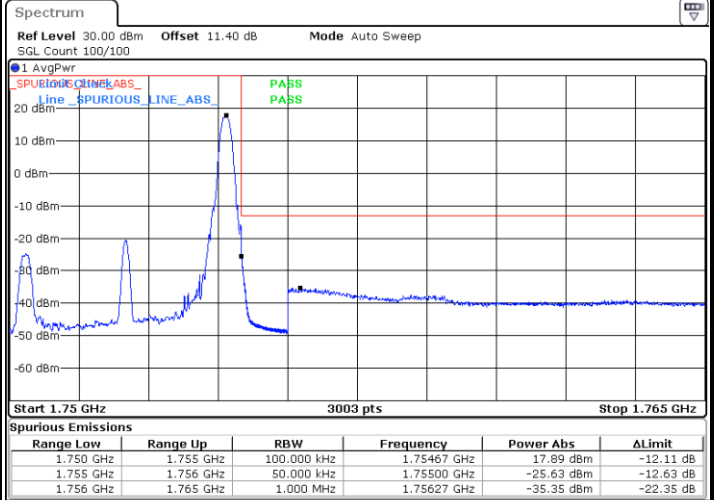
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



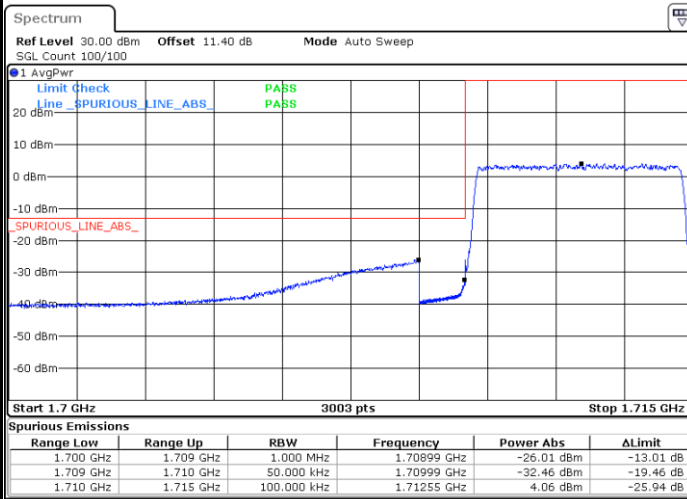
Date: 30 JUN.2020 23:06:58

Highest Band Edge / 1 RB



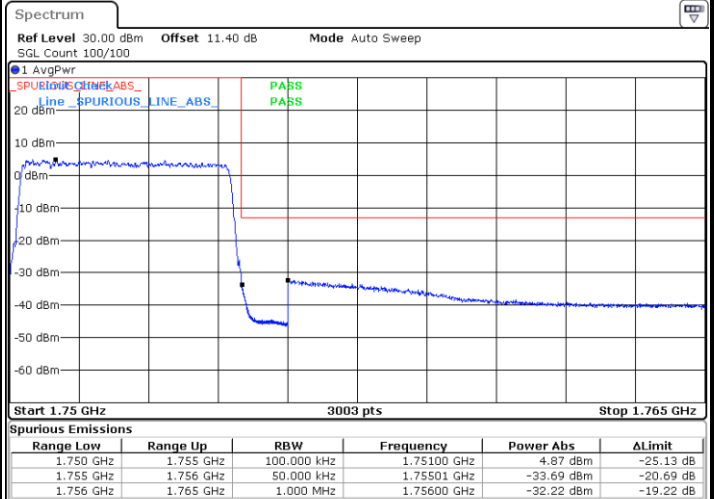
Date: 30 JUN.2020 23:10:40

Lowest Band Edge / Full RB



Date: 30 JUN.2020 23:07:37

Highest Band Edge / Full RB

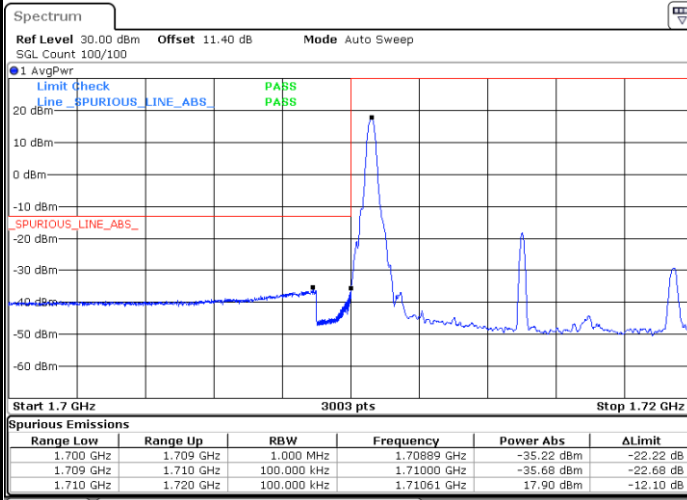


Date: 30 JUN.2020 23:11:19



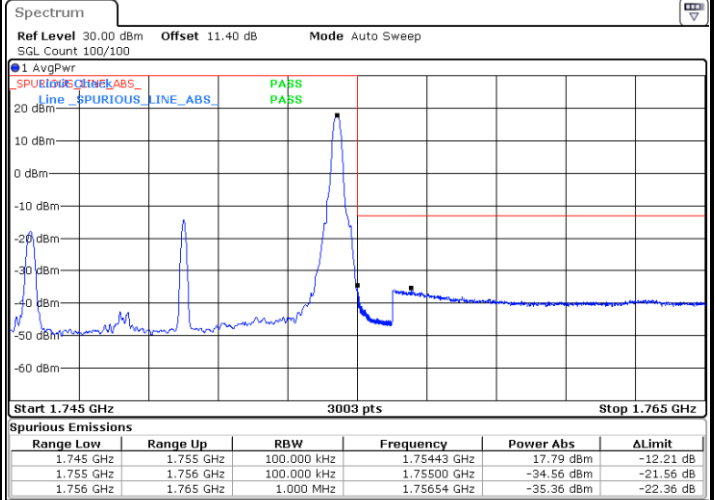
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



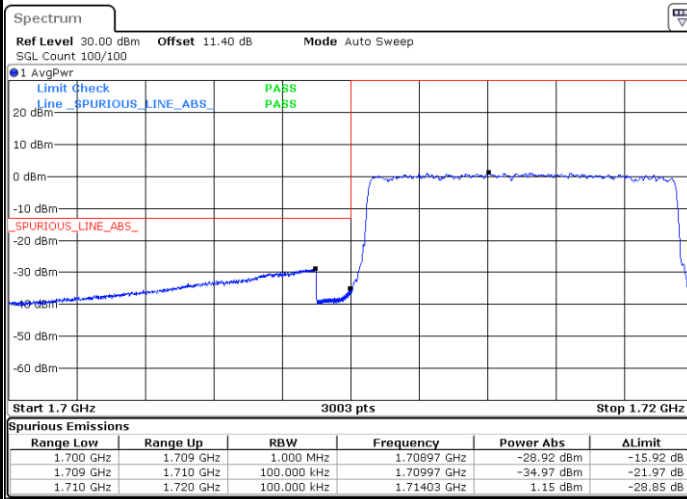
Date: 30 JUN.2020 23:13:10

Highest Band Edge / 1 RB



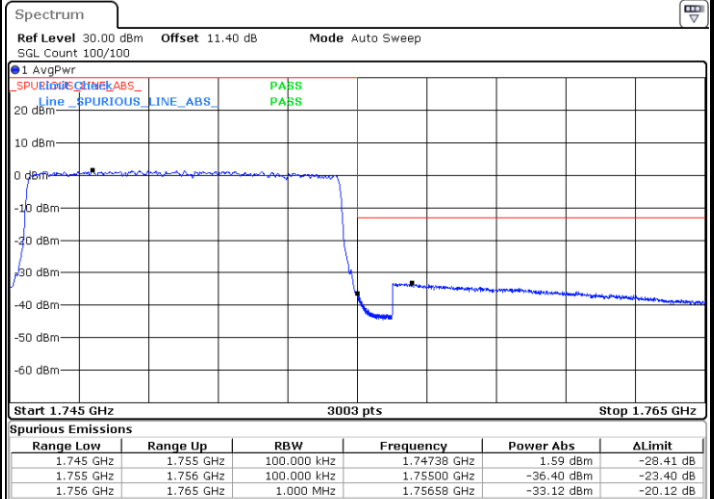
Date: 30 JUN.2020 23:16:52

Lowest Band Edge / Full RB



Date: 30 JUN.2020 23:13:50

Highest Band Edge / Full RB

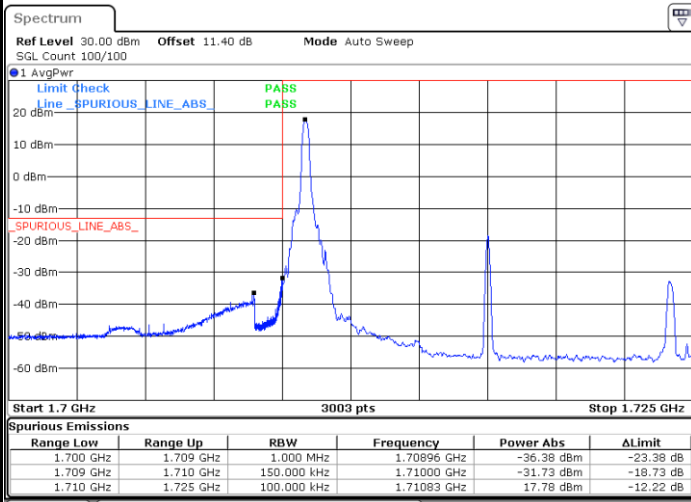


Date: 30 JUN.2020 23:17:32



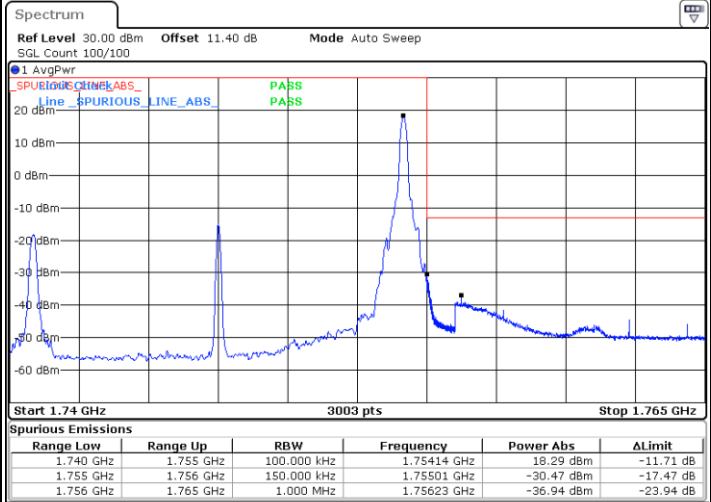
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



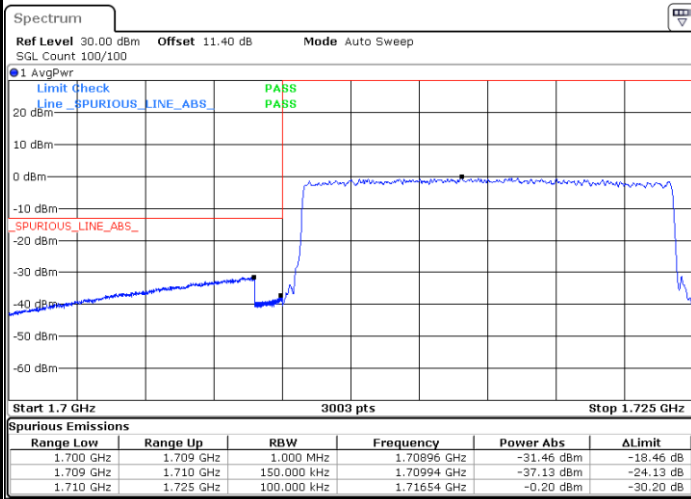
Date: 30 JUN.2020 23:19:23

Highest Band Edge / 1 RB



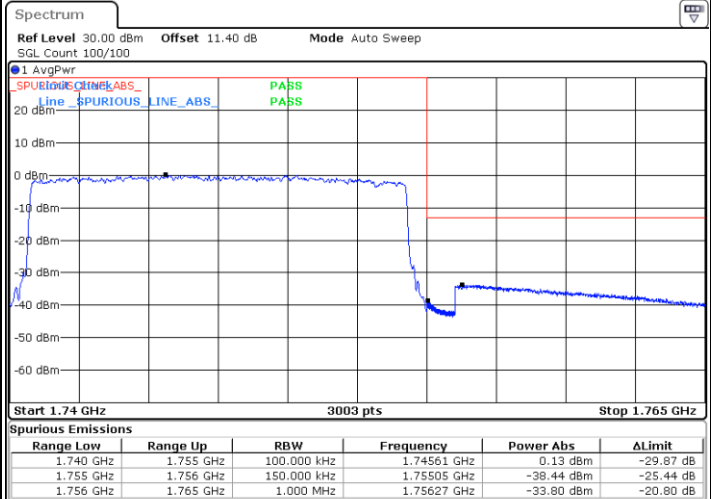
Date: 30 JUN.2020 23:23:04

Lowest Band Edge / Full RB



Date: 30 JUN.2020 23:20:02

Highest Band Edge / Full RB

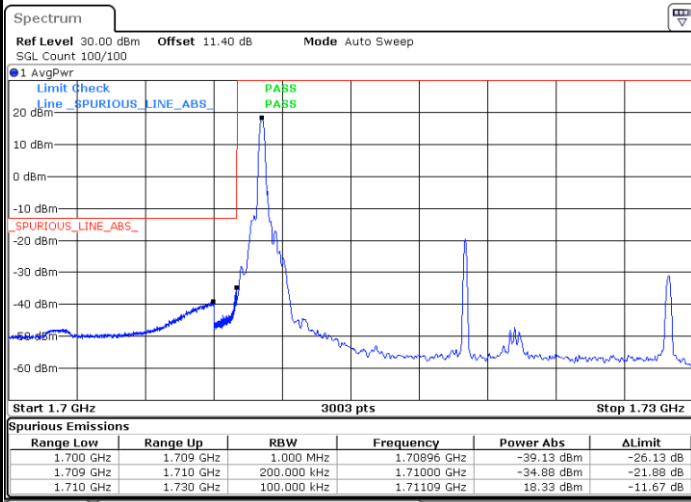


Date: 30 JUN.2020 23:23:43



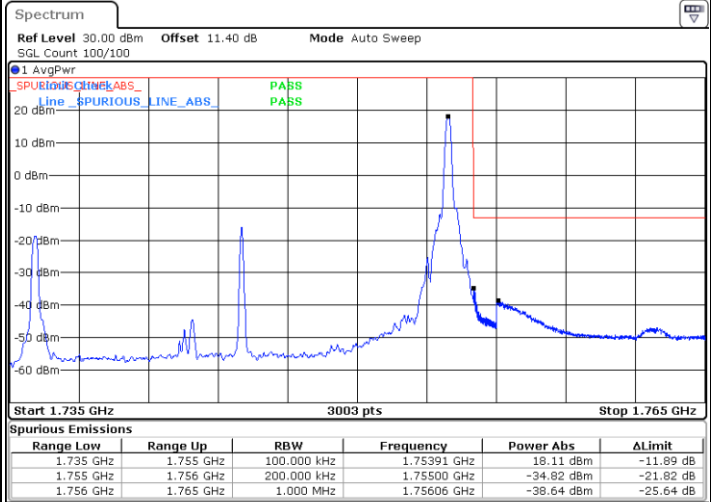
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



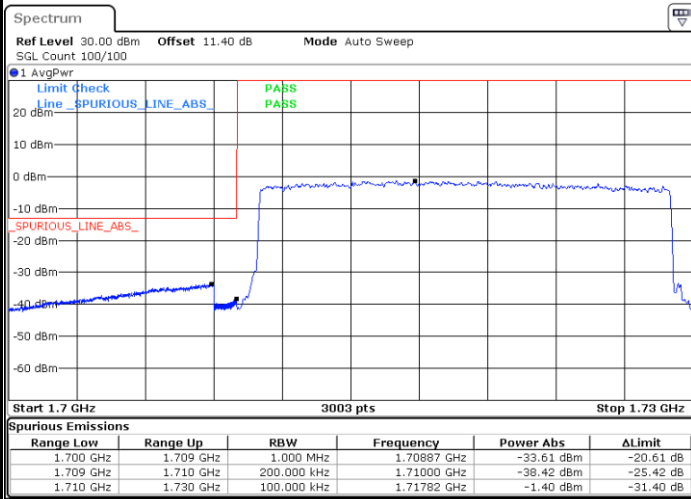
Date: 30 JUN.2020 23:30:26

Highest Band Edge / 1 RB



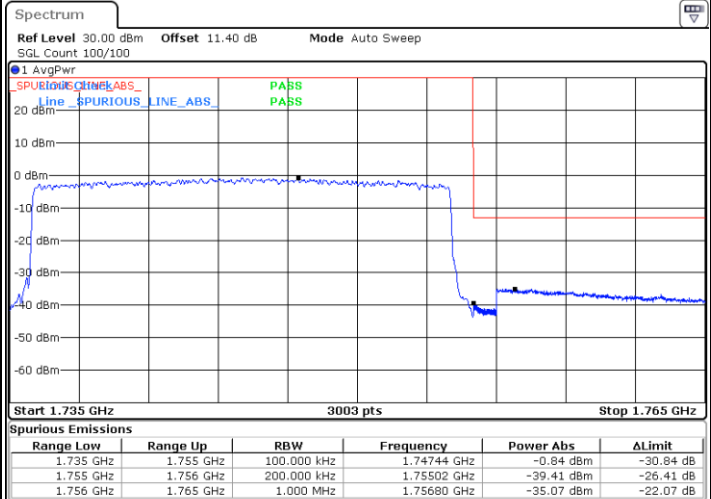
Date: 30 JUN.2020 23:34:17

Lowest Band Edge / Full RB



Date: 30 JUN.2020 23:31:10

Highest Band Edge / Full RB



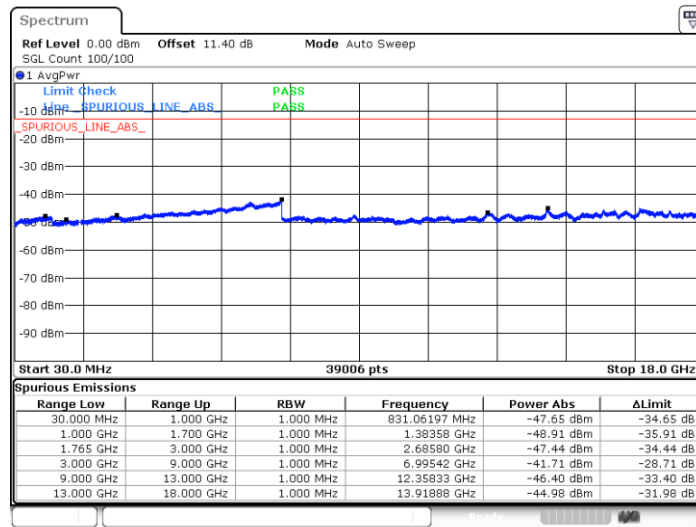
Date: 30 JUN.2020 23:35:01



Conducted Spurious Emission

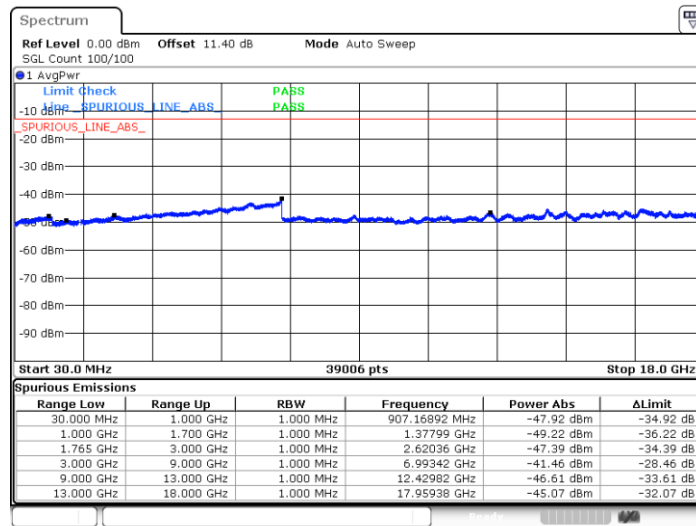
LTE Band 4 / 1.4MHz

Lowest Channel / 16QAM



Date: 30 JUN 2020 23:47:33

Middle Channel / 16QAM

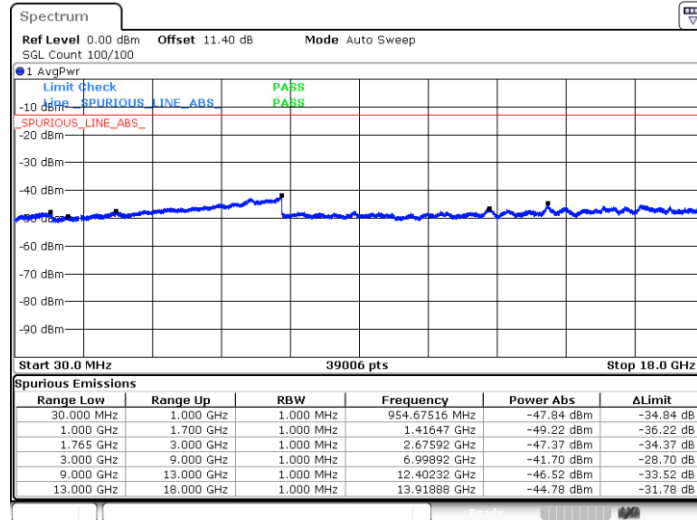


Date: 30 JUN 2020 23:48:45



LTE Band 4 / 1.4MHz

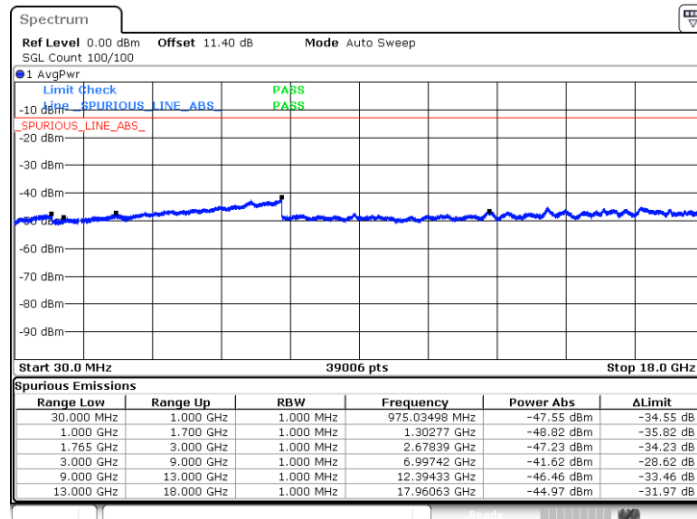
Highest Channel / 16QAM



Date: 30.JUN.2020 23:52:01

LTE Band 4 / 3MHz

Lowest Channel / 16QAM

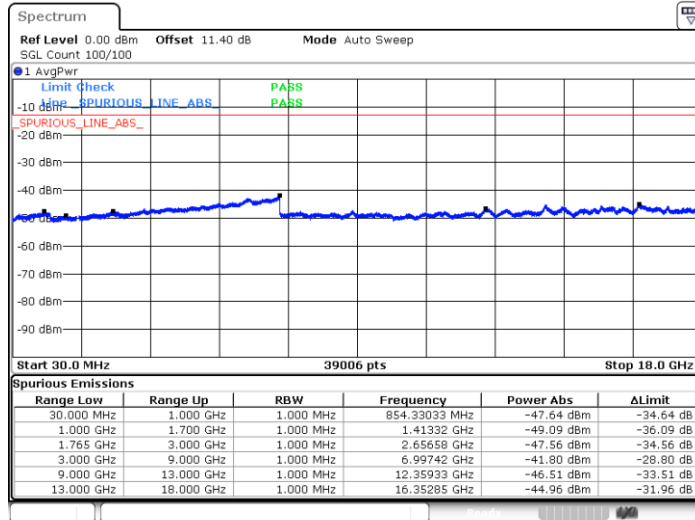


Date: 30.JUN.2020 23:02:13



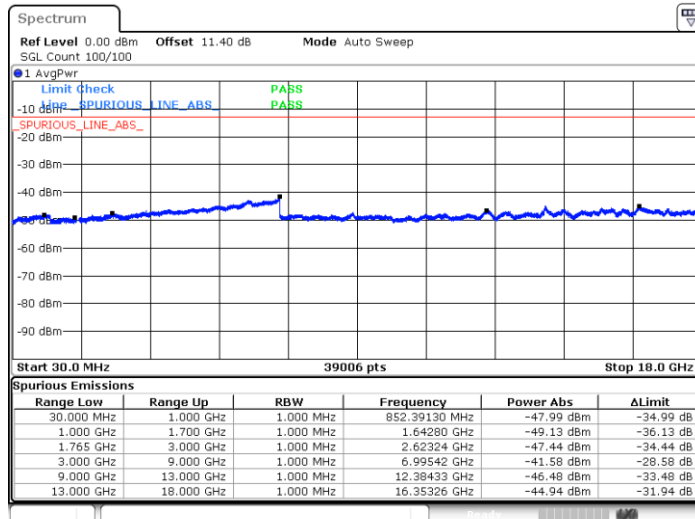
LTE Band 4 / 3MHz

Middle Channel / 16QAM



Date: 30 JUN.2020 23:03:25

Highest Channel / 16QAM

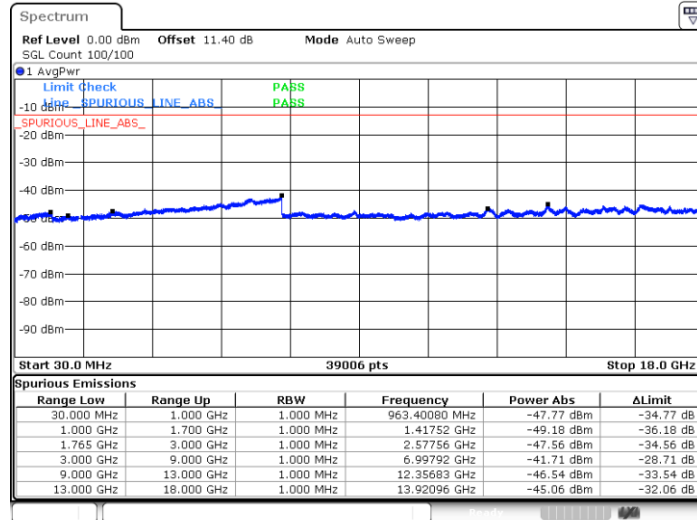


Date: 30 JUN.2020 23:05:16



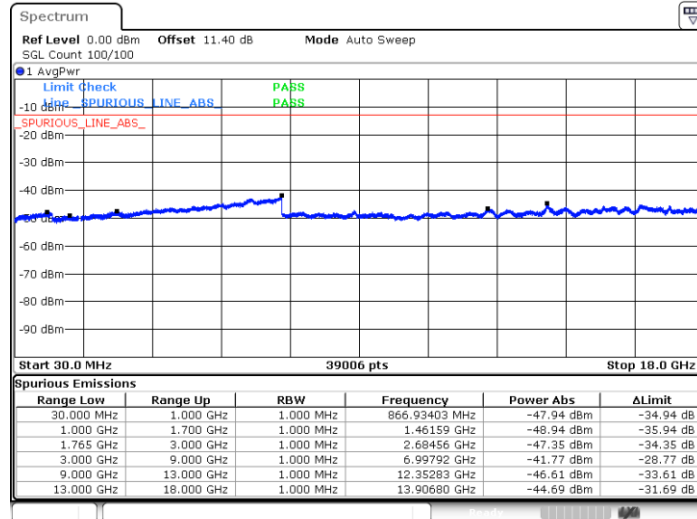
LTE Band 4 / 5MHz

Lowest Channel / 16QAM



Date: 30 JUN 2020 23:08:26

Middle Channel / 16QAM

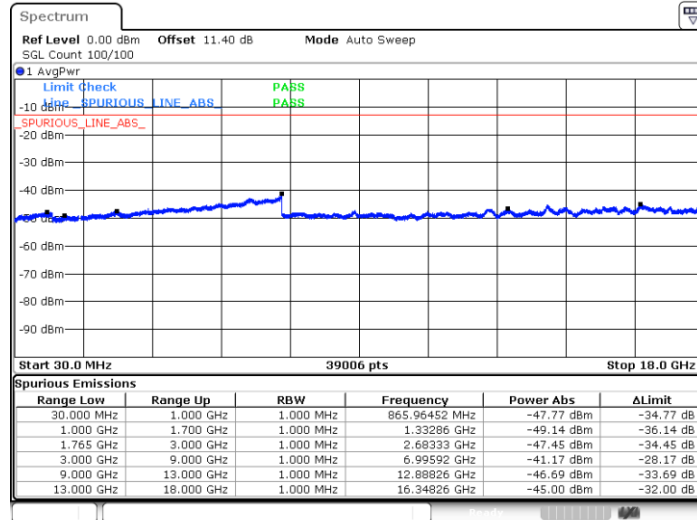


Date: 30 JUN 2020 23:09:38



LTE Band 4 / 5MHz

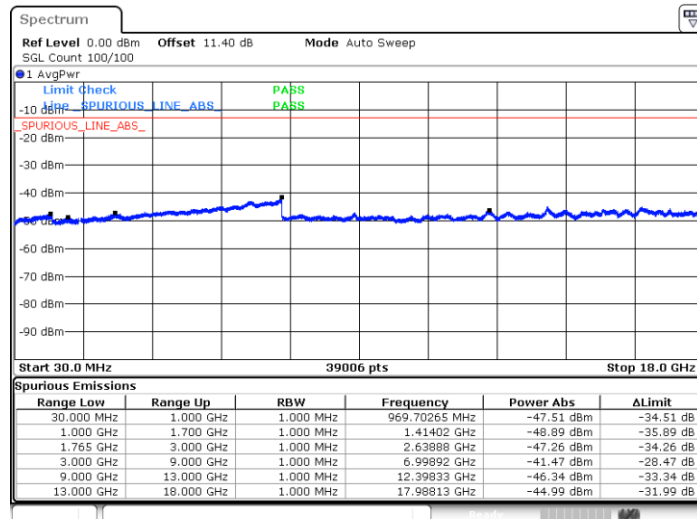
Highest Channel / 16QAM



Date: 30.JUN.2020 23:12:08

LTE Band 4 / 10MHz

Lowest Channel / 16QAM

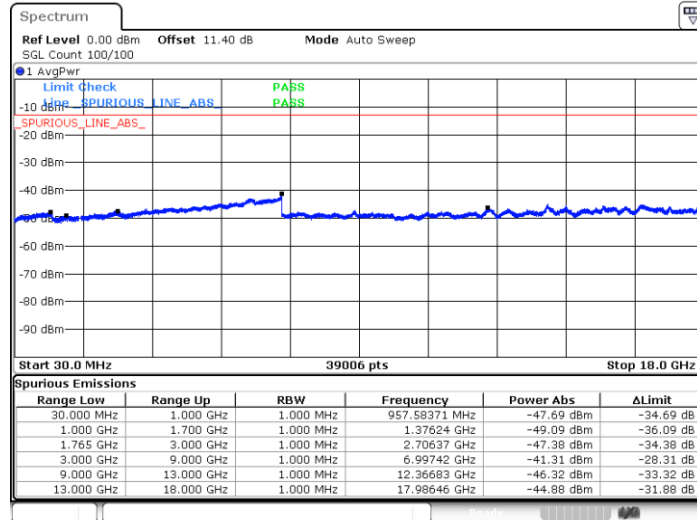


Date: 30.JUN.2020 23:14:38



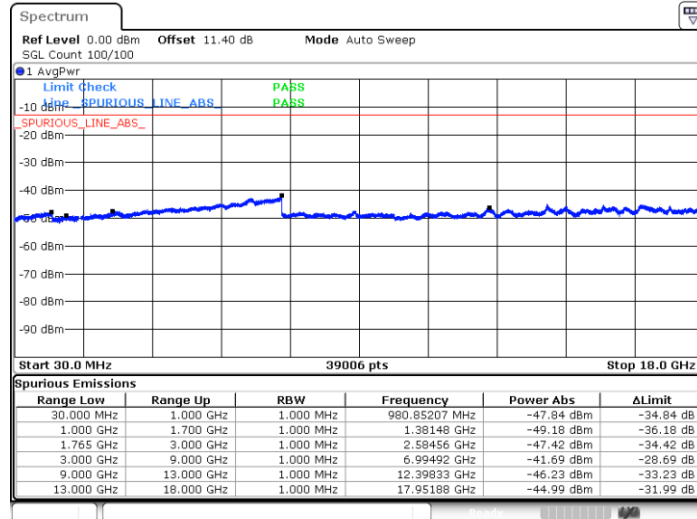
LTE Band 4 / 10MHz

Middle Channel / 16QAM



Date: 30 JUN.2020 23:15:50

Highest Channel / 16QAM

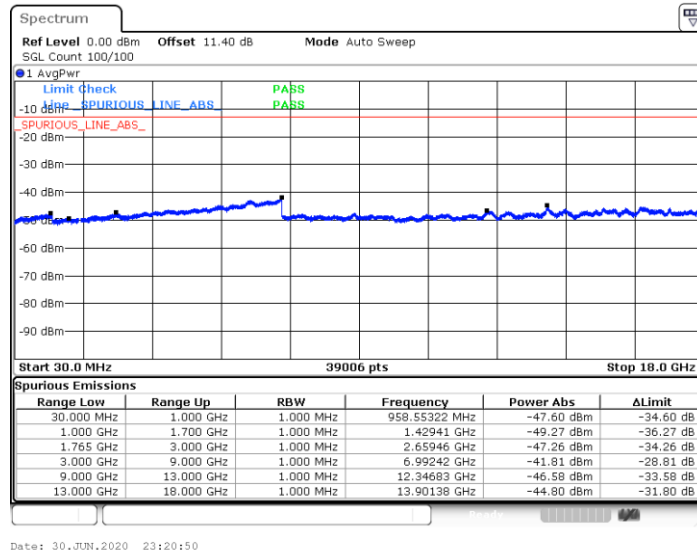


Date: 30 JUN.2020 23:18:20

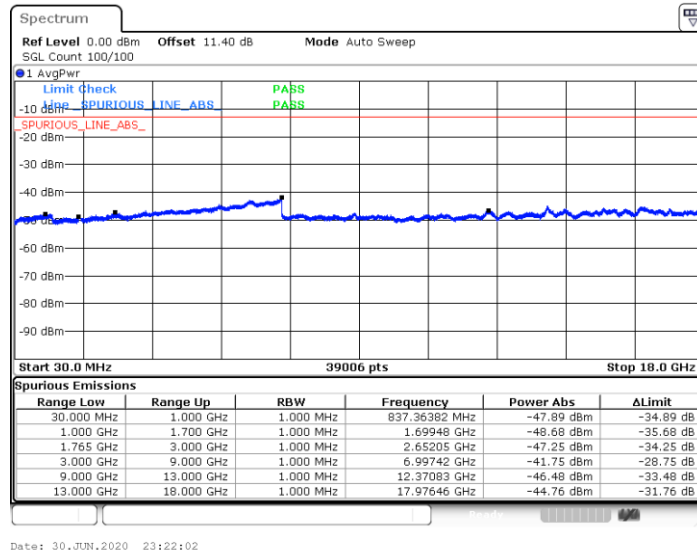


LTE Band 4 / 15MHz

Lowest Channel / 16QAM



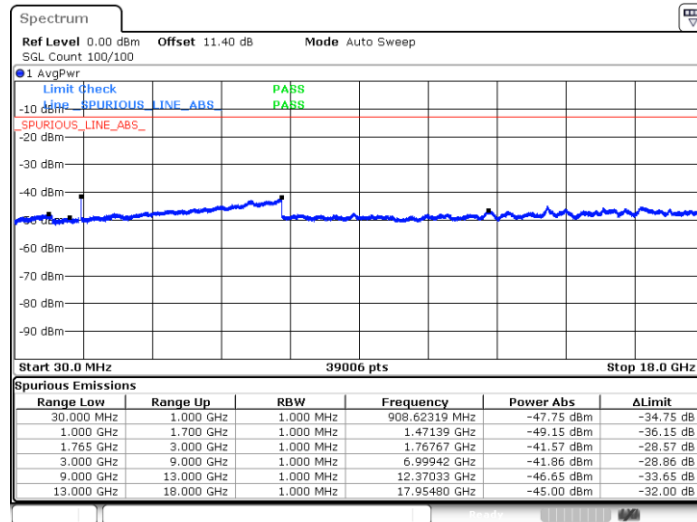
Middle Channel / 16QAM





LTE Band 4 / 15MHz

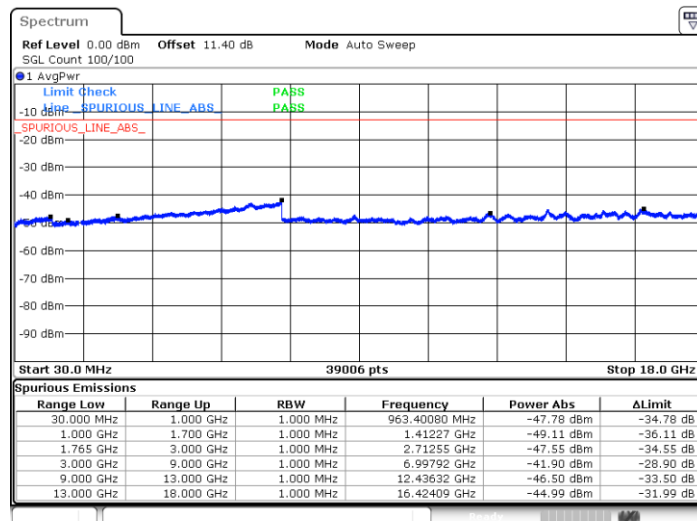
Highest Channel / 16QAM



Date: 30.JUN.2020 23:24:32

LTE Band 4 / 20MHz

Lowest Channel / 16QAM

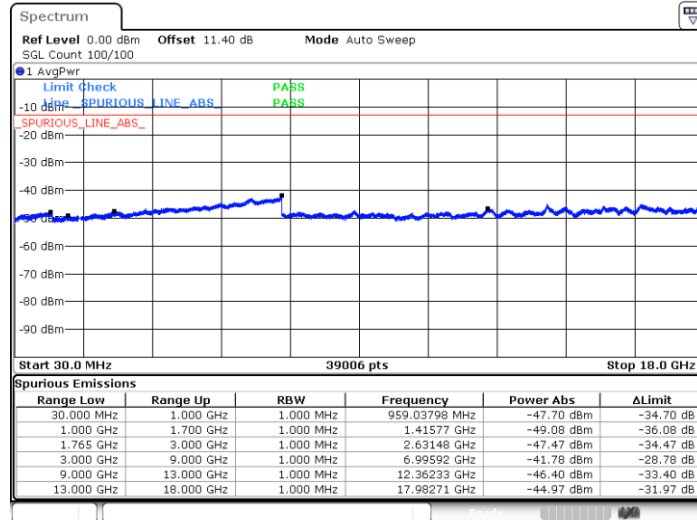


Date: 30.JUN.2020 23:31:59



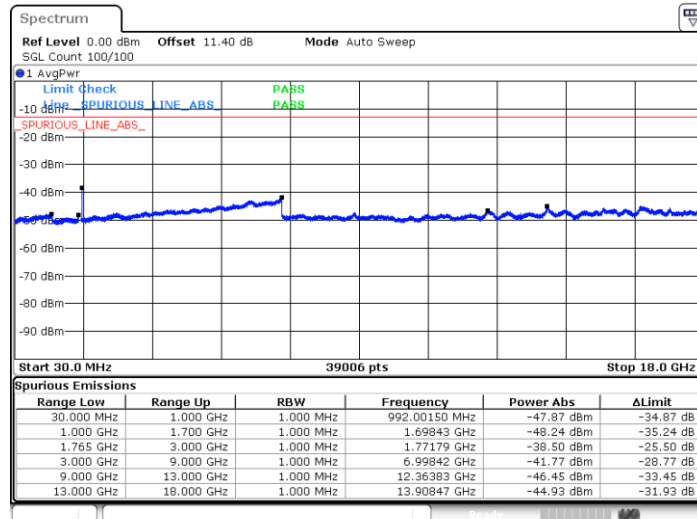
LTE Band 4 / 20MHz

Middle Channel / 16QAM



Date: 30 JUN.2020 23:33:10

Highest Channel / 16QAM



Date: 30 JUN.2020 23:35:50



Frequency Stability

Test Conditions		LTE Band 4 (16AQM) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0045	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0048	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =10.2 V. ; Maximum Voltage =13.8 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

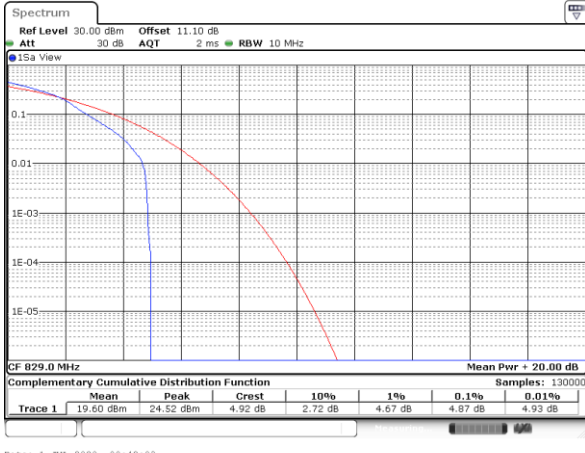
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	4.87	5.54	PASS
Middle CH	-	-	4.81	5.68	
Highest CH	-	-	5.07	5.71	



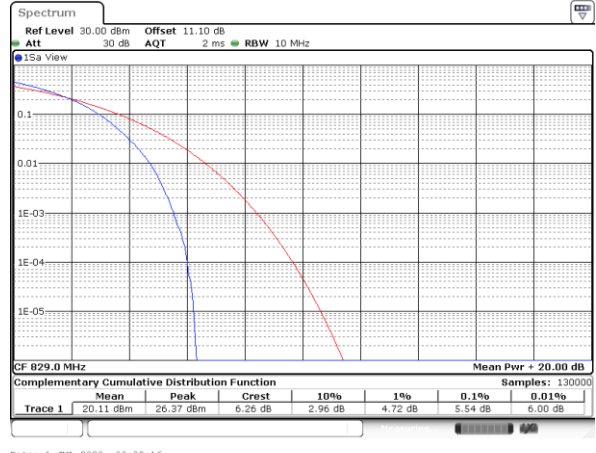
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



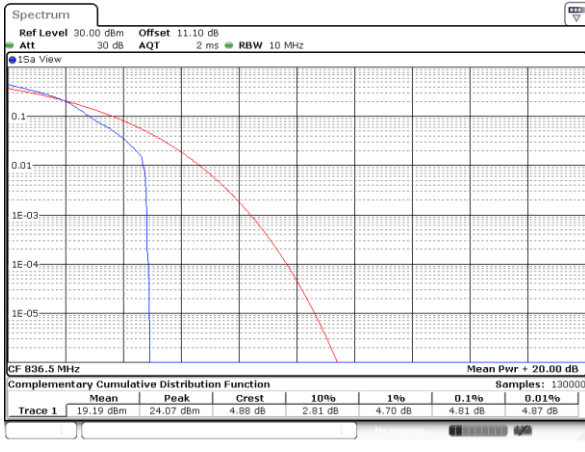
Date: 1.JUL.2020 00:42:03

Lowest Channel / Full RB



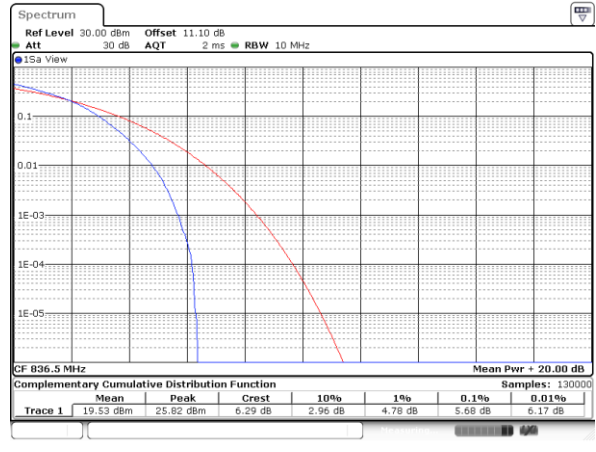
Date: 1.JUL.2020 00:39:16

Middle Channel / 1RB



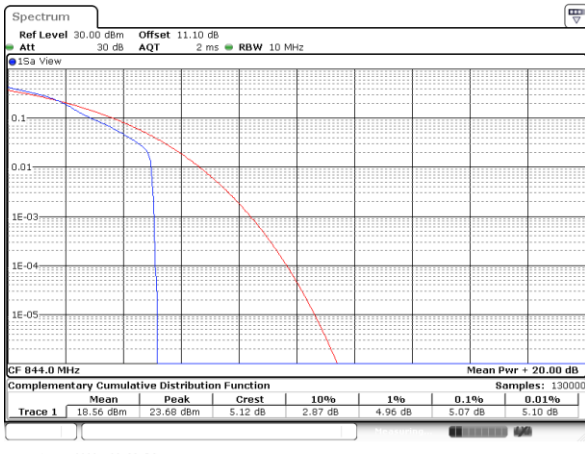
Date: 1.JUL.2020 00:42:39

Middle Channel / Full RB



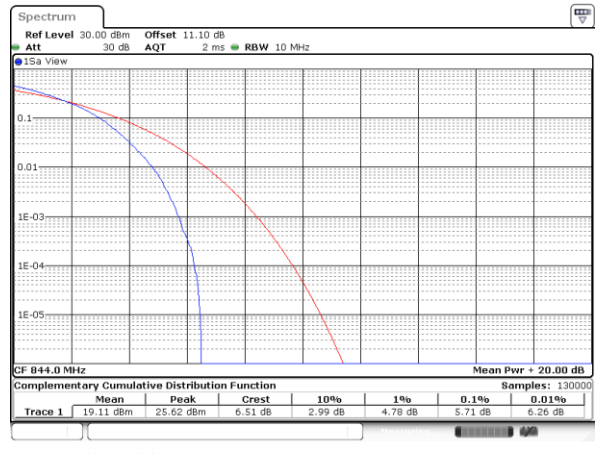
Date: 1.JUL.2020 00:43:30

Highest Channel / 1RB



Date: 1.JUL.2020 00:39:56

Highest Channel / Full RB



Date: 1.JUL.2020 00:43:56



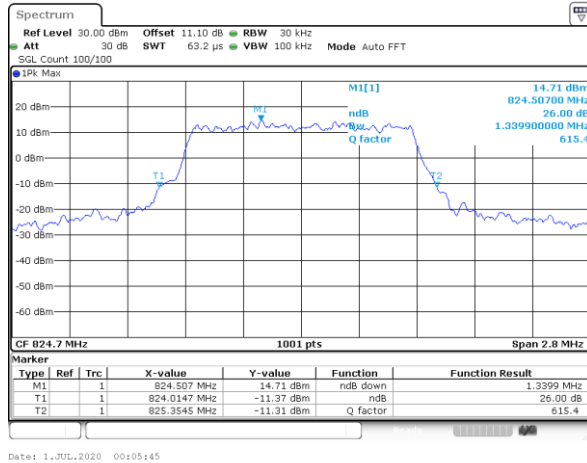
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	1.34	-	3.04	-	4.91	-	9.79	-	-	-	-
Middle CH	-	1.28	-	3.05	-	4.82	-	9.75	-	-	-	-
Highest CH	-	1.28	-	2.99	-	4.93	-	9.81	-	-	-	-



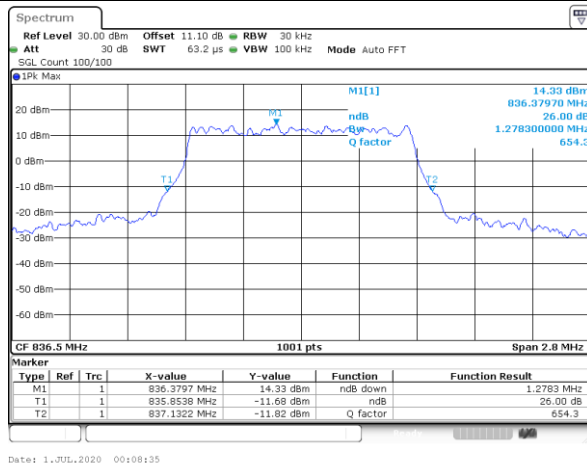
LTE Band 5

Lowest Channel / 1.4MHz / 16QAM



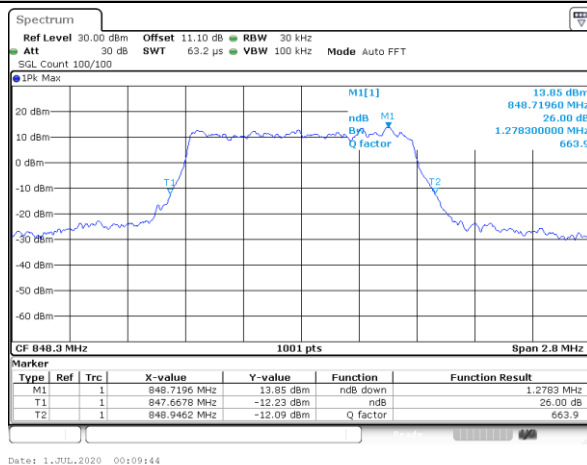
Date: 1.JUL.2020 00:05:45

Middle Channel / 1.4MHz / 16QAM



Date: 1.JUL.2020 00:09:35

Highest Channel / 1.4MHz / 16QAM

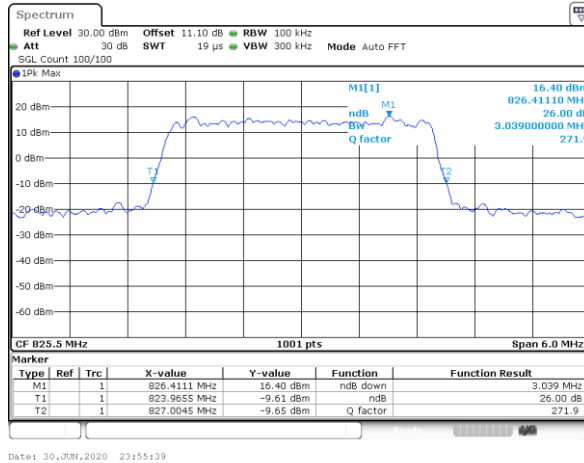


Date: 1.JUL.2020 00:09:44



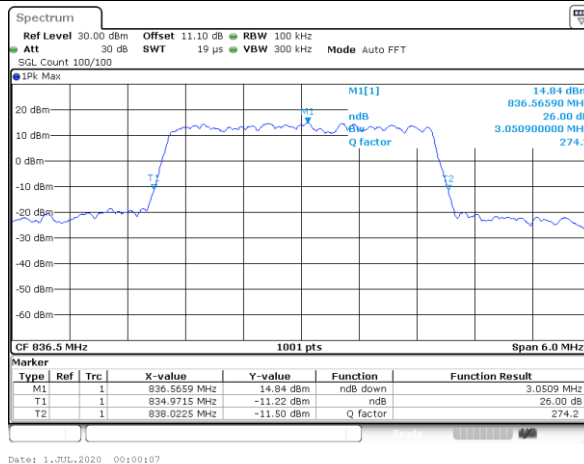
LTE Band 5

Lowest Channel / 3MHz / 16QAM



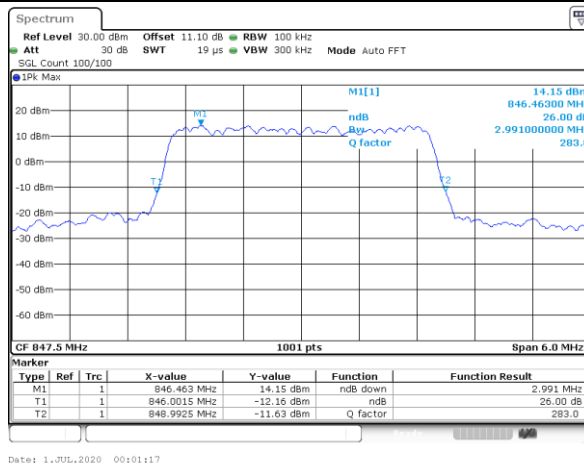
Date: 30.JUN.2020 23:55:39

Middle Channel / 3MHz / 16QAM



Date: 1.JUL.2020 00:00:07

Highest Channel / 3MHz / 16QAM

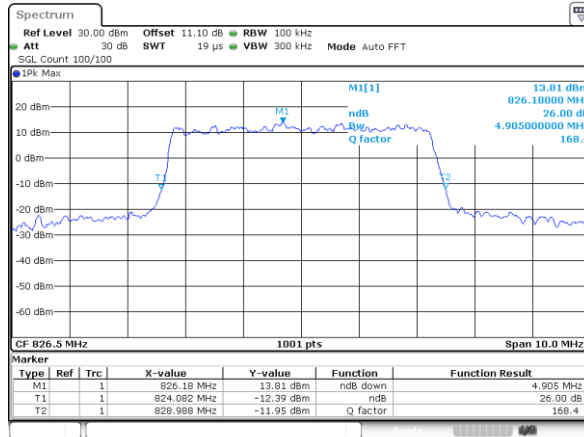


Date: 1.JUL.2020 00:01:17



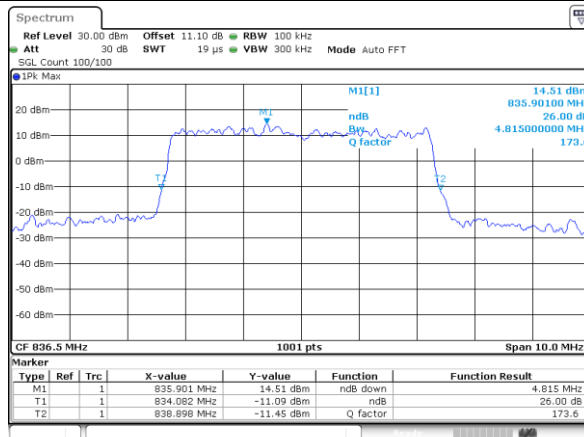
LTE Band 5

Lowest Channel / 5MHz / 16QAM



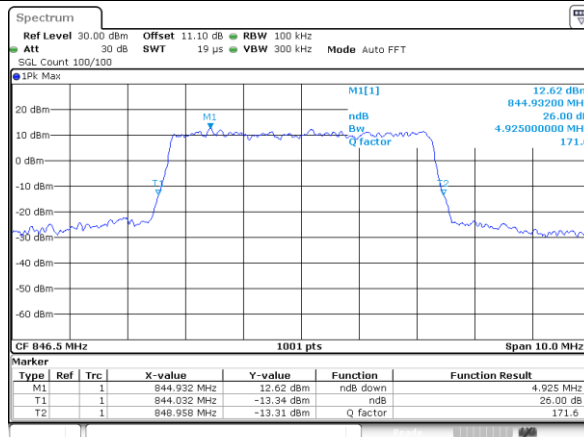
Date: 1.JUL.2020 00:18:47

Middle Channel / 5MHz / 16QAM



Date: 1.JUL.2020 00:23:14

Highest Channel / 5MHz / 16QAM

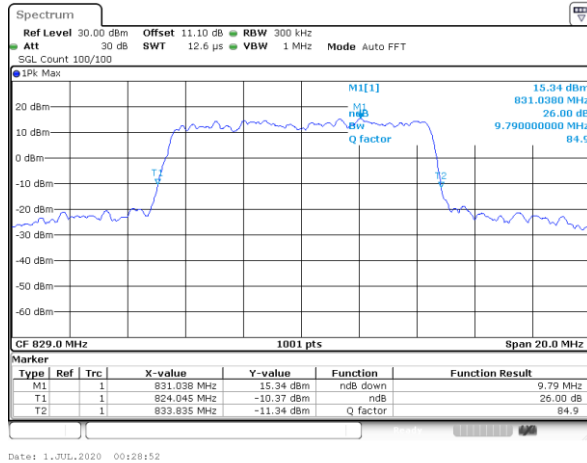


Date: 1.JUL.2020 00:24:24

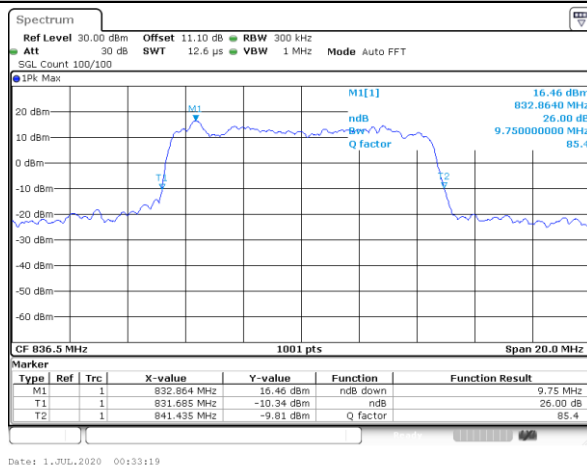


LTE Band 5

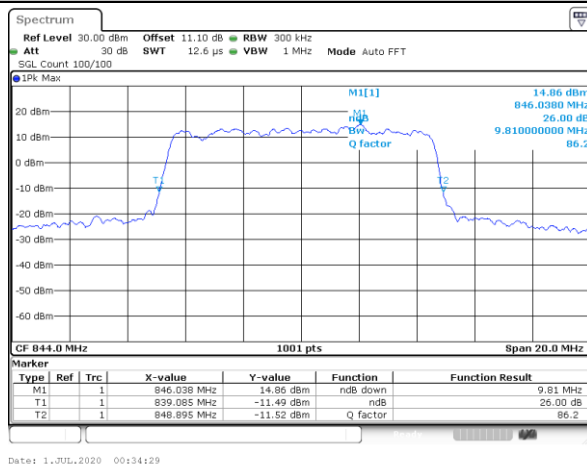
Lowest Channel / 10MHz / 16QAM



Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / 16QAM





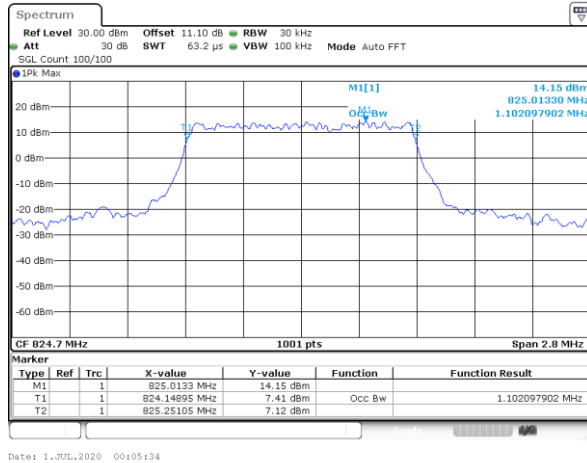
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	1.10	-	2.73	-	4.48	-	8.97	-	-	-	-
Middle CH	-	1.09	-	2.73	-	4.51	-	9.03	-	-	-	-
Highest CH	-	1.09	-	2.72	-	4.48	-	9.01	-	-	-	-

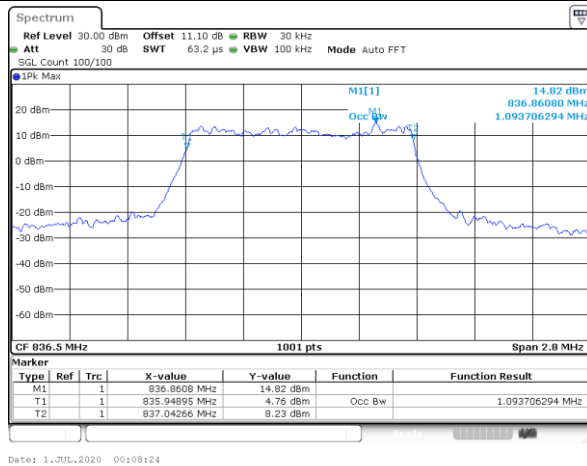


LTE Band 5

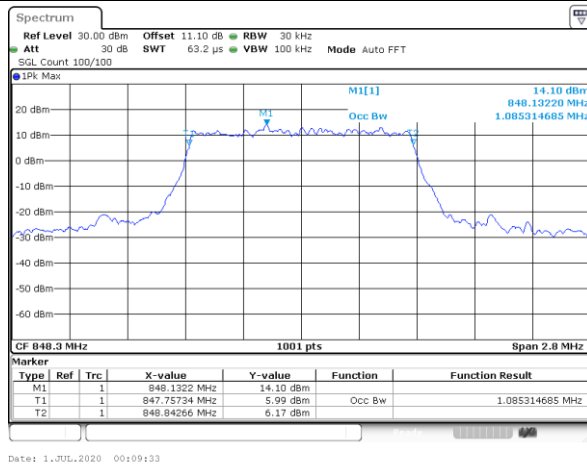
Lowest Channel / 1.4MHz / 16QAM



Middle Channel / 1.4MHz / 16QAM



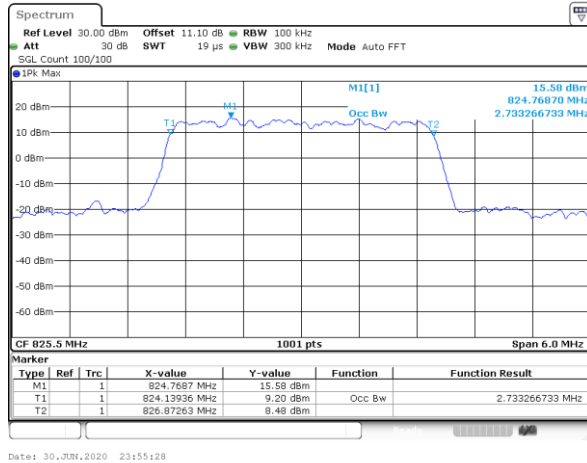
Highest Channel / 1.4MHz / 16QAM





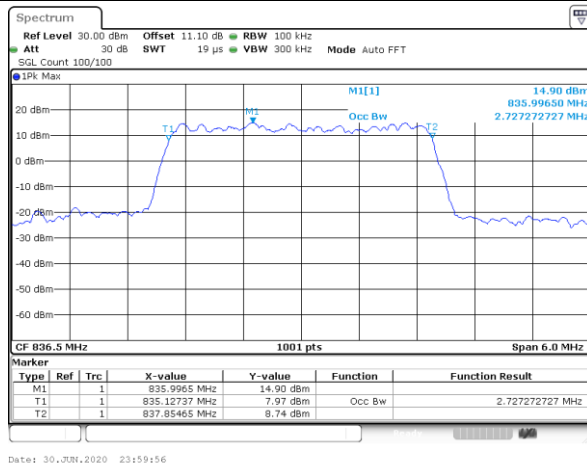
LTE Band 5

Lowest Channel / 3MHz / 16QAM



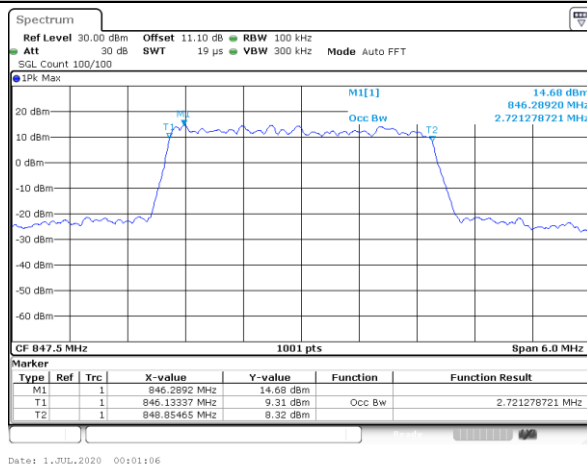
Date: 30 JUN 2020 23:55:28

Middle Channel / 3MHz / 16QAM



Date: 30 JUN 2020 23:59:56

Highest Channel / 3MHz / 16QAM

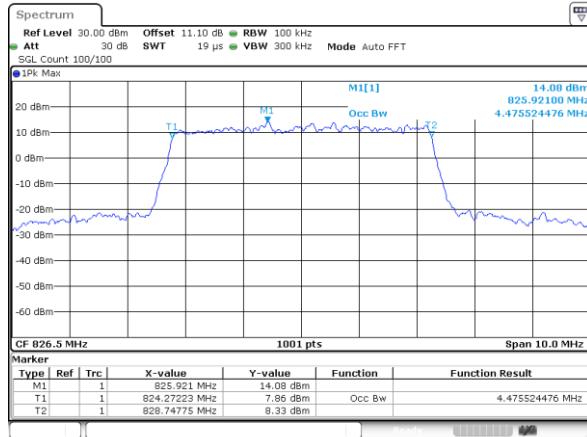


Date: 1 JUL 2020 00:01:06



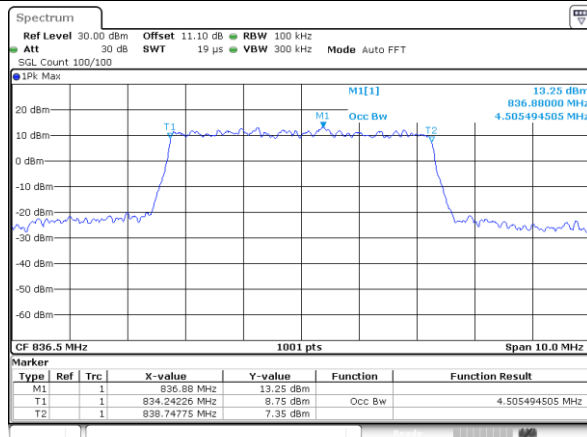
LTE Band 5

Lowest Channel / 5MHz / 16QAM



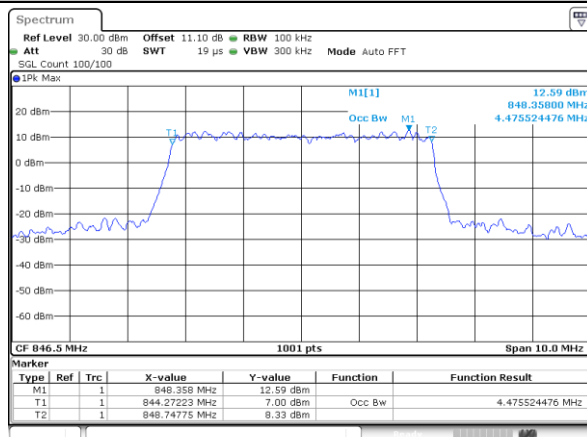
Date: 1.JUL.2020 00:18:35

Middle Channel / 5MHz / 16QAM



Date: 1.JUL.2020 00:23:03

Highest Channel / 5MHz / 16QAM



Date: 1.JUL.2020 00:24:13