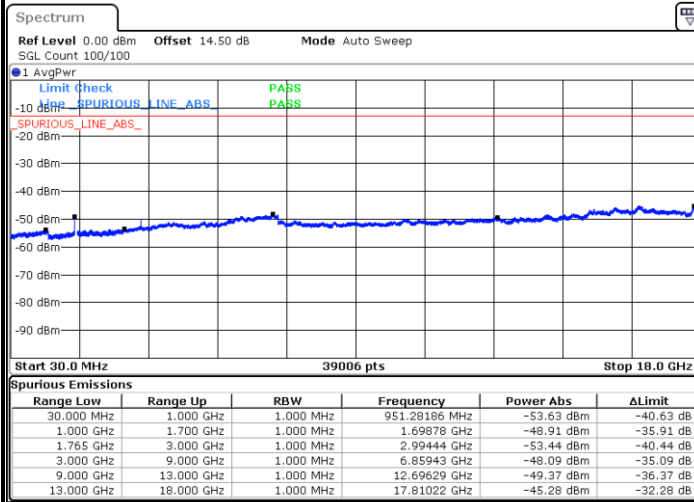




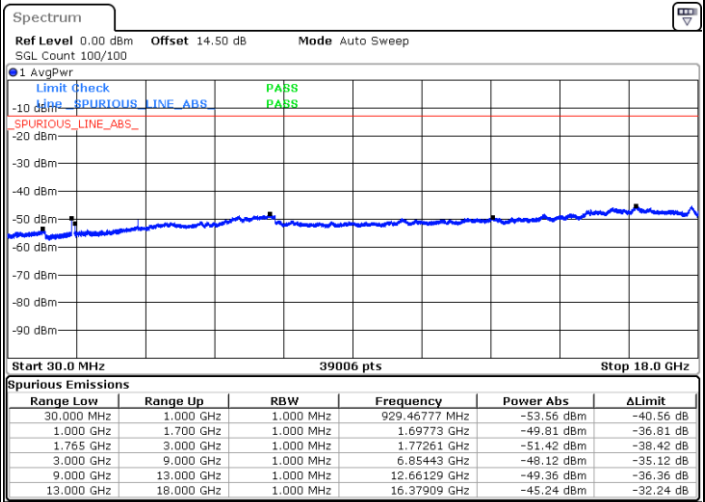
LTE Band 4 / 15MHz

Lowest Channel / QPSK



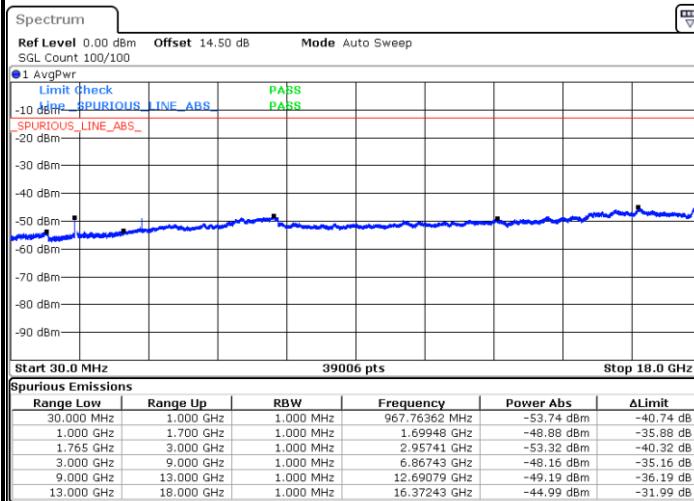
Date: 22 MAR 2020 11:33:08

Lowest Channel / 16QAM



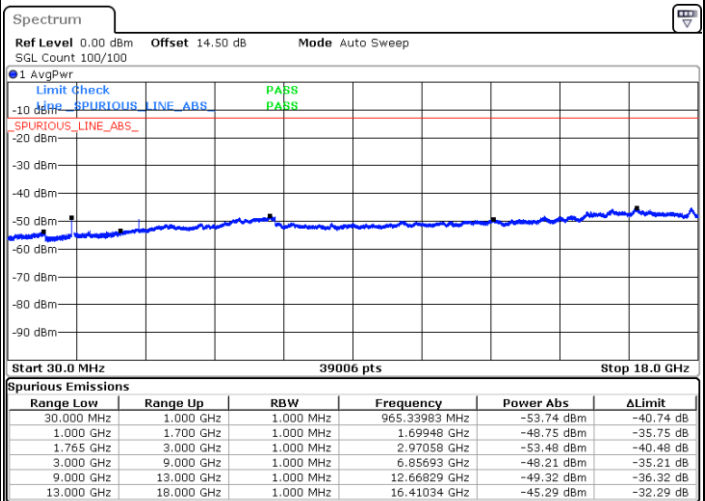
Date: 22 MAR 2020 11:34:07

Middle Channel / QPSK



Date: 22 MAR 2020 11:35:50

Middle Channel / 16QAM

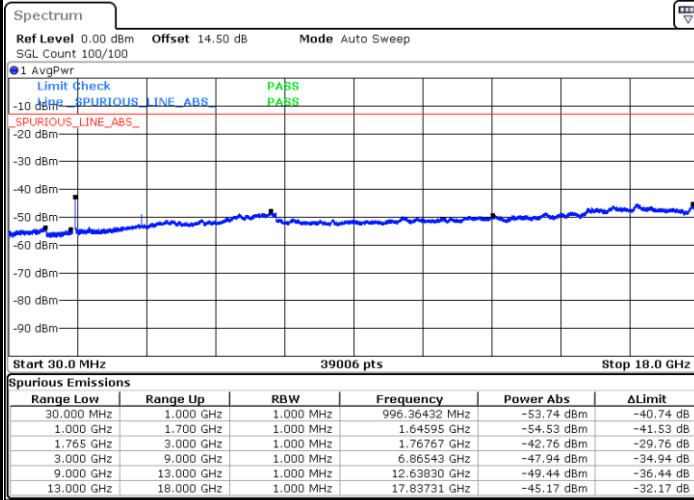


Date: 22 MAR 2020 11:36:49



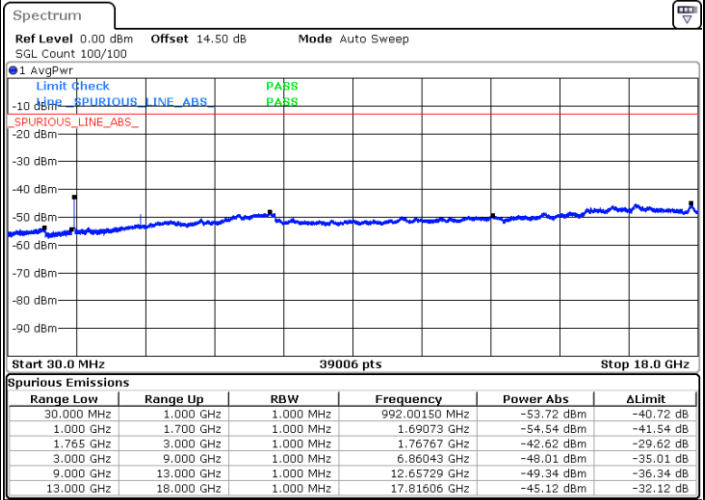
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 22 MAR 2020 11:41:08

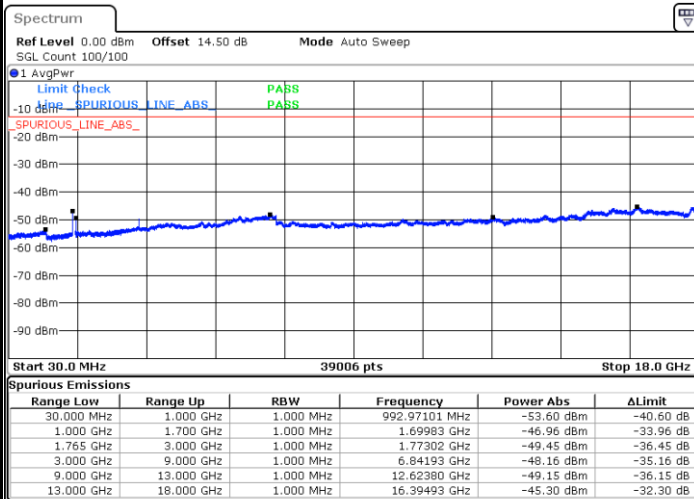
Highest Channel / 16QAM



Date: 22 MAR 2020 11:42:07

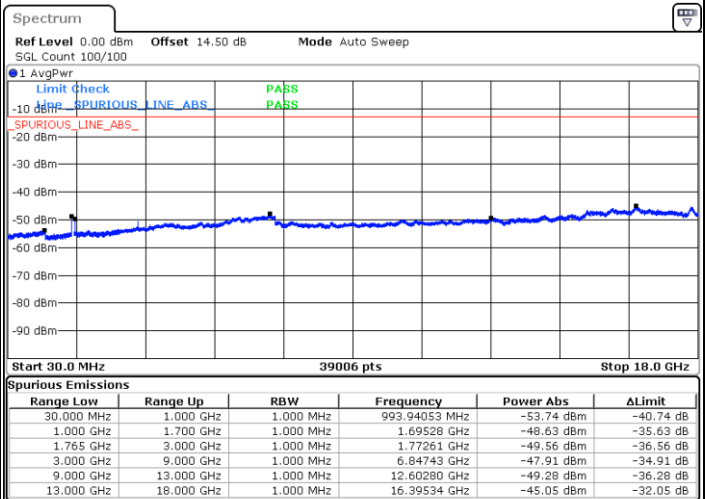
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 22 MAR 2020 11:46:25

Lowest Channel / 16QAM

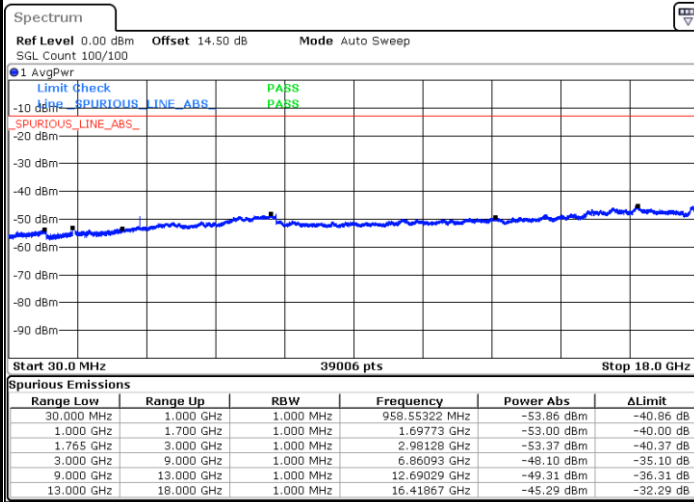


Date: 22 MAR 2020 11:47:25



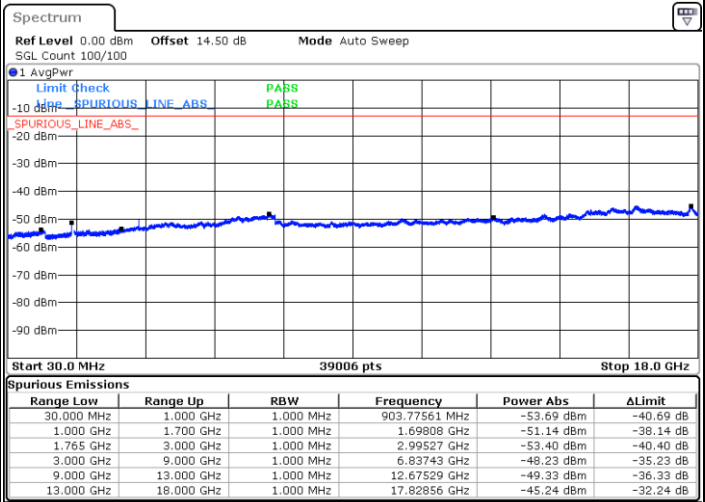
LTE Band 4 / 20MHz

Middle Channel / QPSK



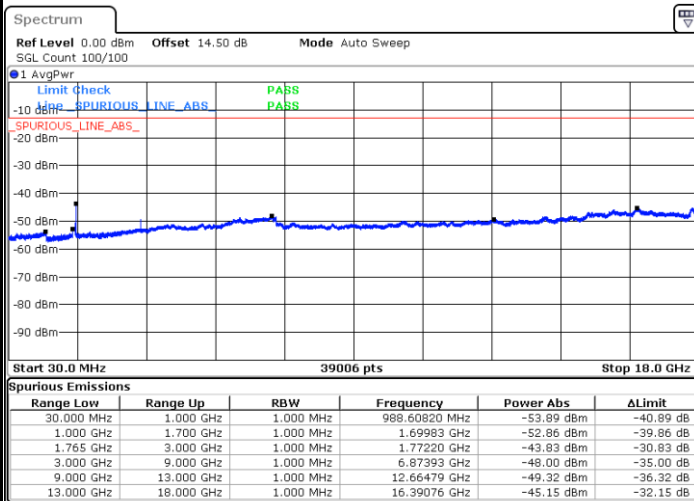
Date: 22 MAR 2020 11:49:08

Middle Channel / 16QAM



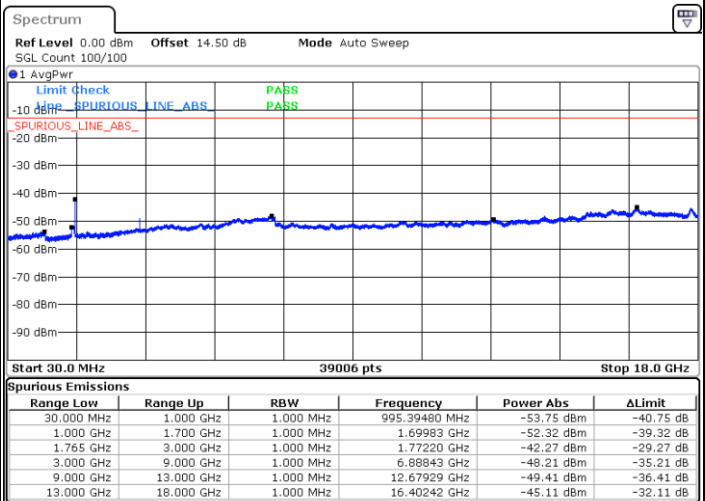
Date: 22 MAR 2020 11:50:07

Highest Channel / QPSK



Date: 22 MAR 2020 11:54:25

Highest Channel / 16QAM



Date: 22 MAR 2020 11:55:25

**Frequency Stability**

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. Note: 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	4.93	5.3	6.35	6.03	PASS
Middle CH	4.67	5.36	6.09	6.17	
Highest CH	5.04	5.36	6.12	6.17	

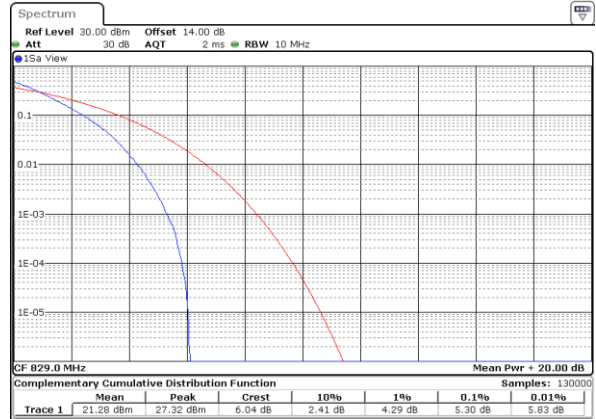
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



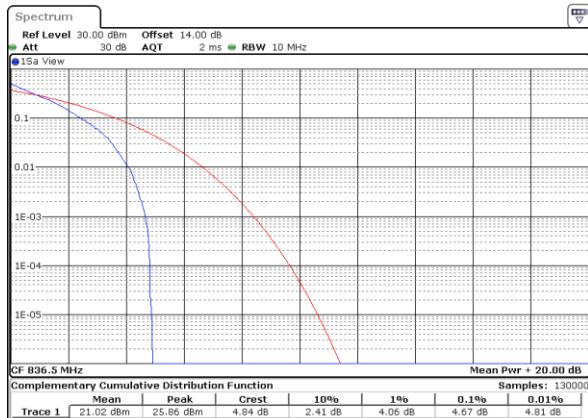
Date: 22 MAR 2020 10:13:43

Lowest Channel / Full RB



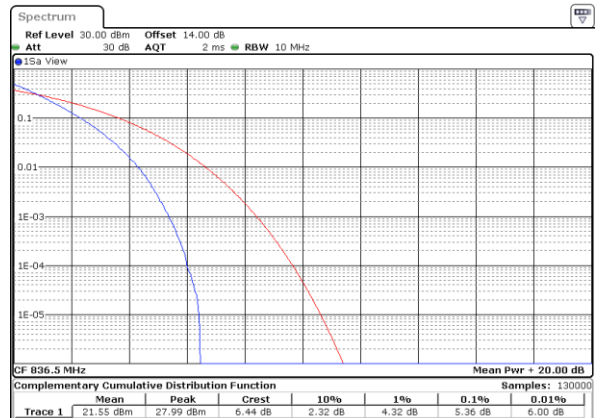
Date: 22 MAR 2020 10:13:52

Middle Channel / 1RB



Date: 22 MAR 2020 10:14:07

Middle Channel / Full RB



Date: 22 MAR 2020 10:14:17

Highest Channel / 1RB

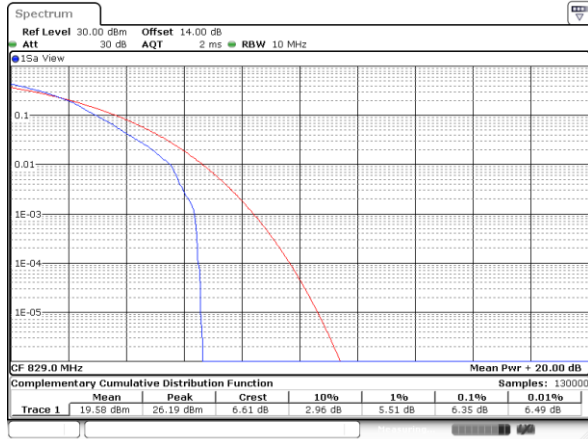


Date: 22 MAR 2020 10:14:32

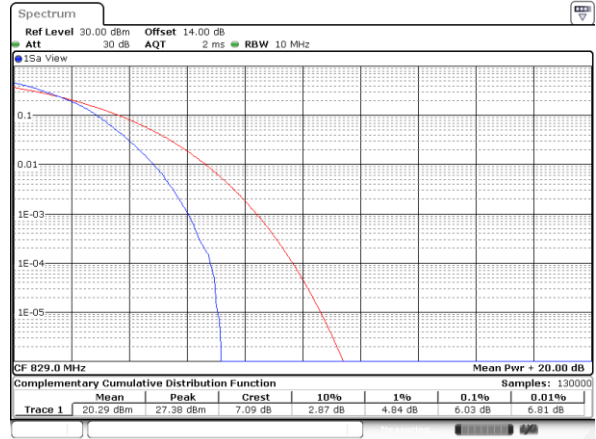
Highest Channel / Full RB



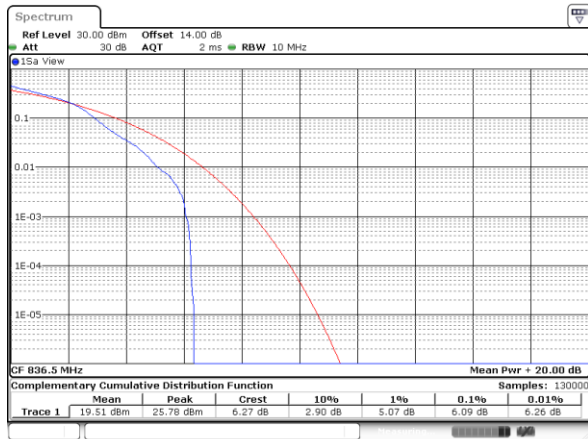
Date: 22 MAR 2020 10:14:42

LTE Band 5 / 10MHz / 16QAM
Lowest Channel / 1RB


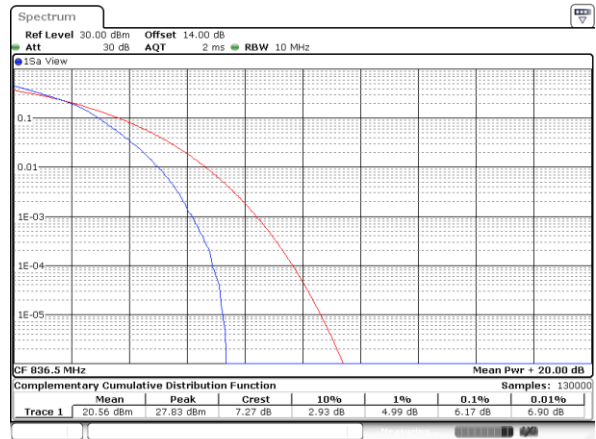
Date: 22 MAR 2020 10:11:59

Lowest Channel / Full RB


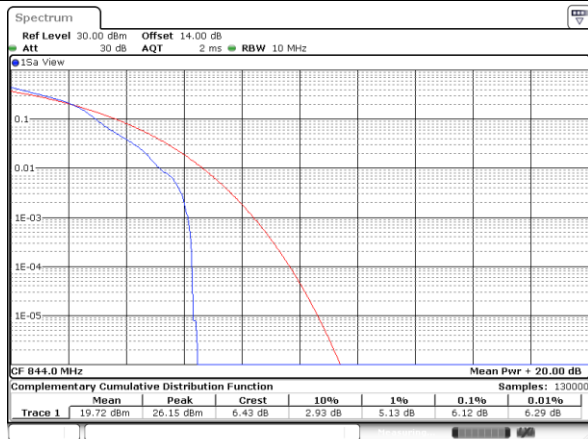
Date: 22 MAR 2020 10:12:15

Middle Channel / 1RB


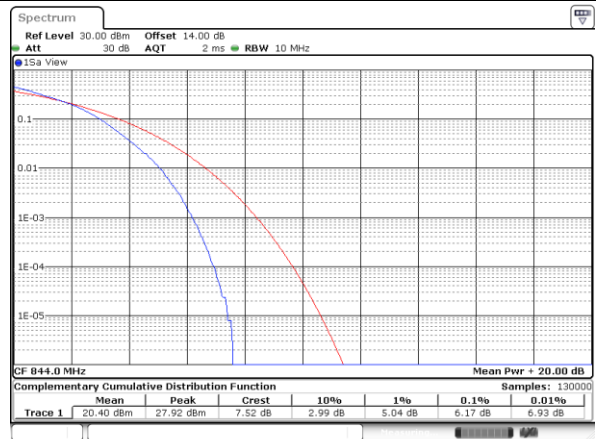
Date: 22 MAR 2020 10:12:37

Middle Channel / Full RB


Date: 22 MAR 2020 10:12:57

Highest Channel / 1RB


Date: 22 MAR 2020 10:13:22

Highest Channel / Full RB


Date: 22 MAR 2020 10:13:33



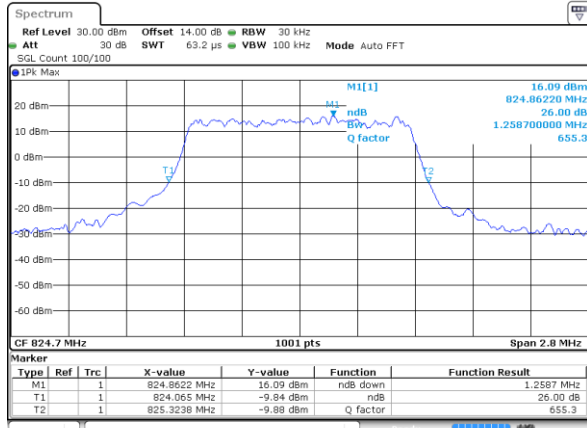
26dB Bandwidth

Mode	LTE Band 5 : 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	1.26	1.26	3.05	3.1	5.07	5.23	9.69	9.99	-	-	-	-
Middle CH	1.25	1.24	3.1	3.13	4.85	5.02	10.31	10.11	-	-	-	-
Highest CH	1.29	1.24	3.14	3.06	5.09	4.92	9.75	10.15	-	-	-	-



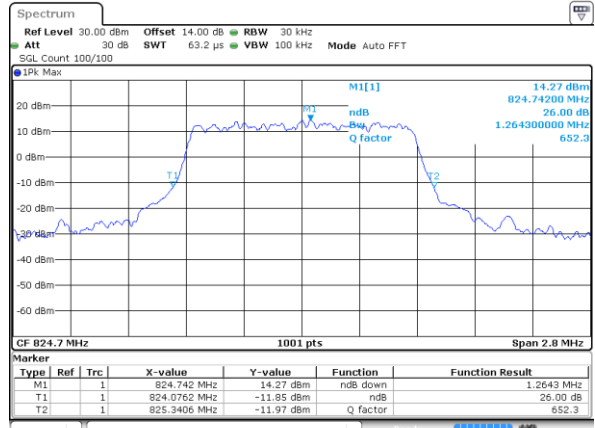
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



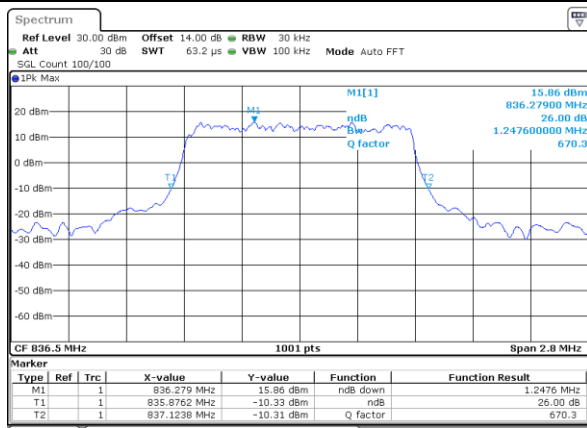
Date: 22 MAR 2020 09:52:29

Lowest Channel / 1.4MHz / 16QAM



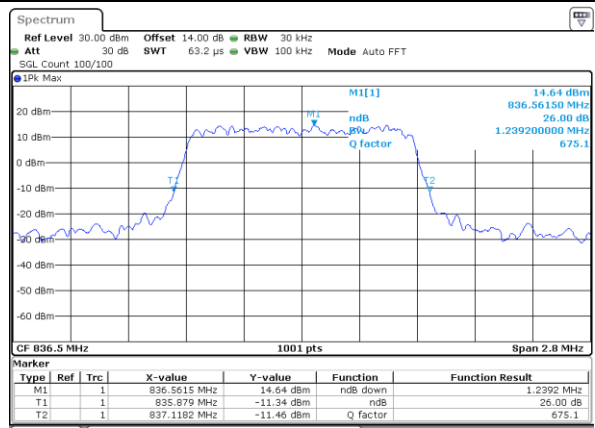
Date: 22 MAR 2020 09:52:18

Middle Channel / 1.4MHz / QPSK



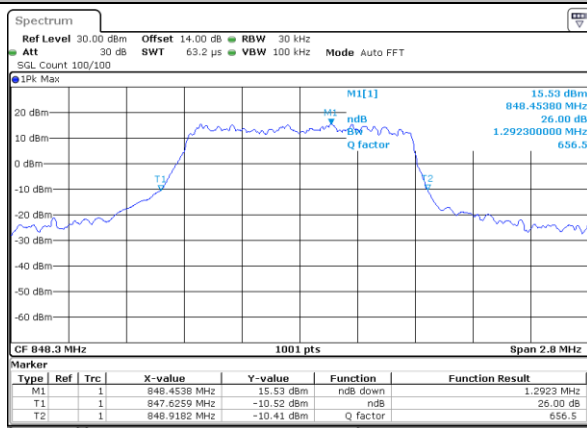
Date: 22 MAR 2020 09:58:20

Middle Channel / 1.4MHz / 16QAM



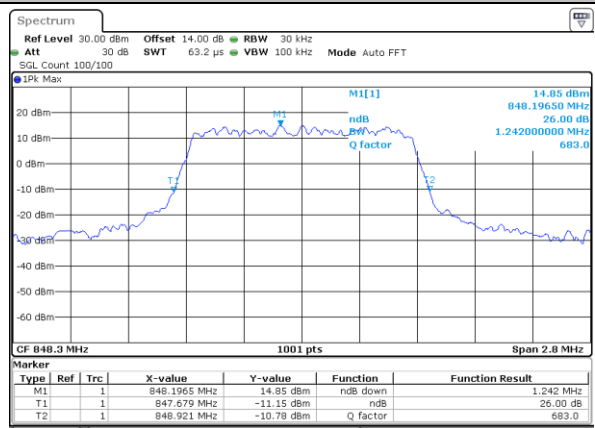
Date: 22 MAR 2020 09:58:31

Highest Channel / 1.4MHz / QPSK



Date: 22 MAR 2020 10:01:02

Highest Channel / 1.4MHz / 16QAM

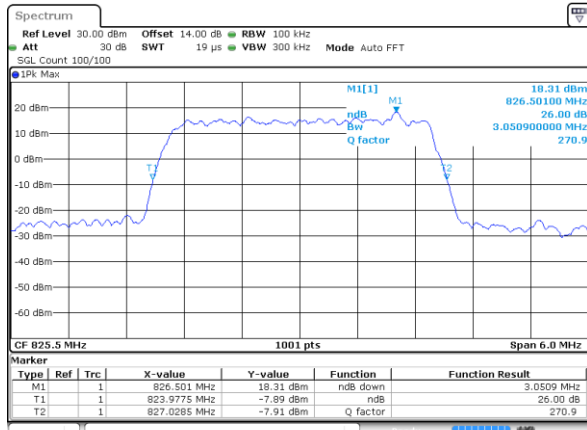


Date: 22 MAR 2020 10:01:13

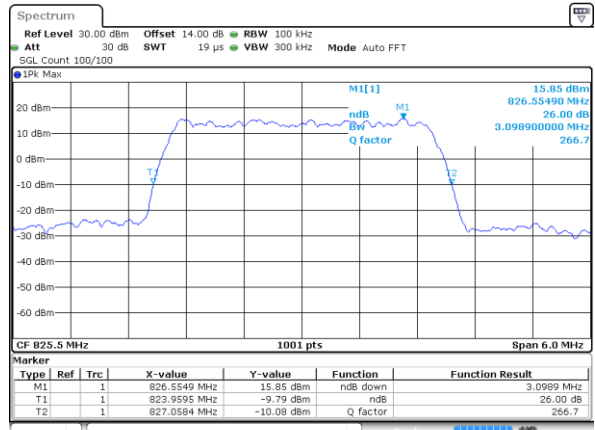


LTE Band 5

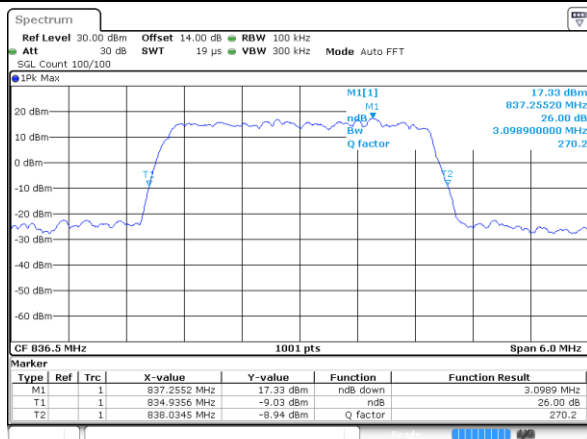
Lowest Channel / 3MHz / QPSK



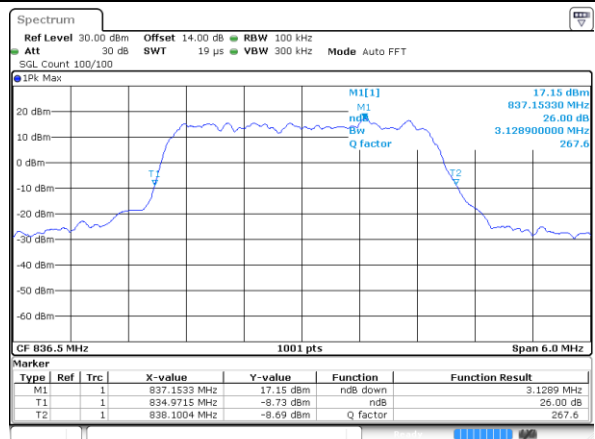
Lowest Channel / 3MHz / 16QAM



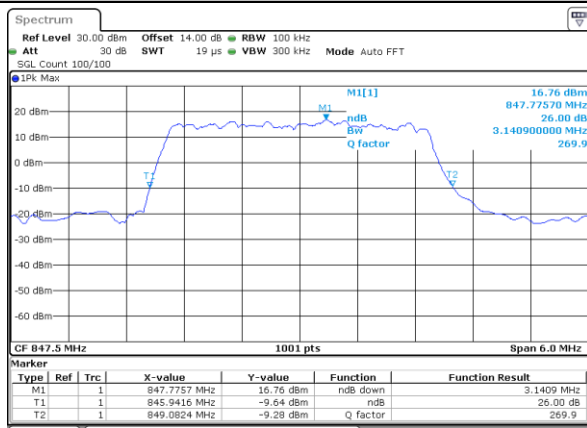
Middle Channel / 3MHz / QPSK



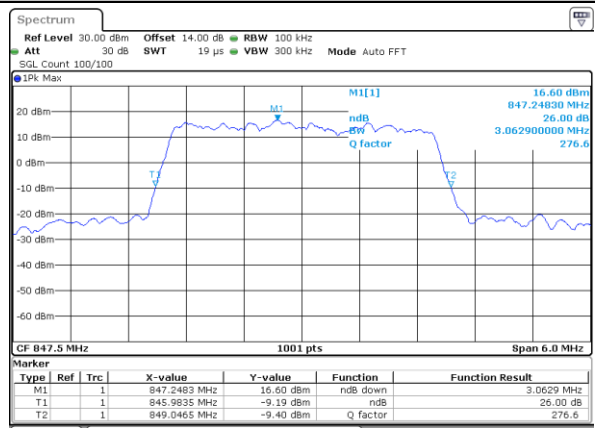
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



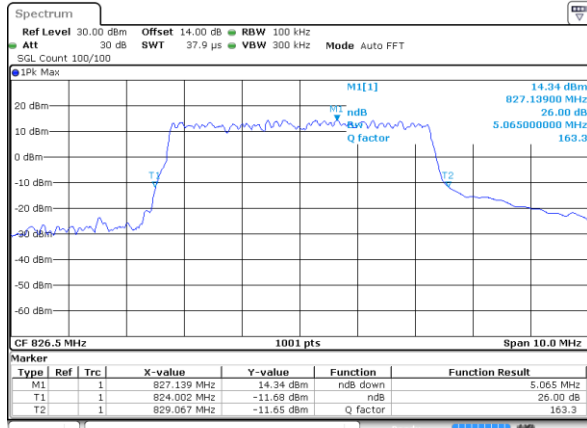
Highest Channel / 3MHz / 16QAM





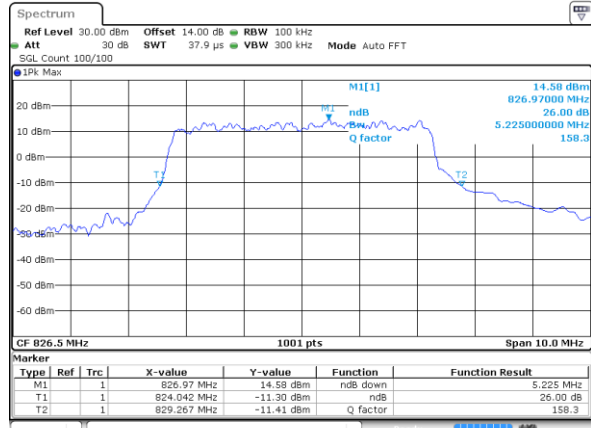
LTE Band 5

Lowest Channel / 5MHz / QPSK



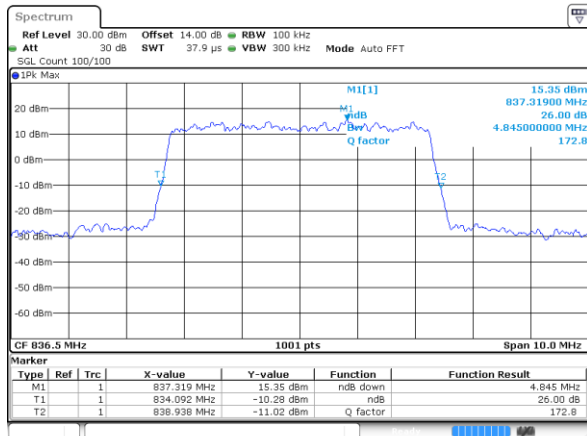
Date: 22 MAR 2020 09:09:44

Lowest Channel / 5MHz / 16QAM



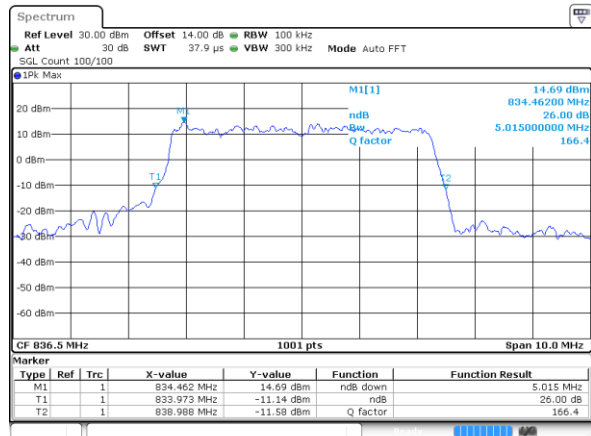
Date: 22 MAR 2020 09:09:55

Middle Channel / 5MHz / QPSK



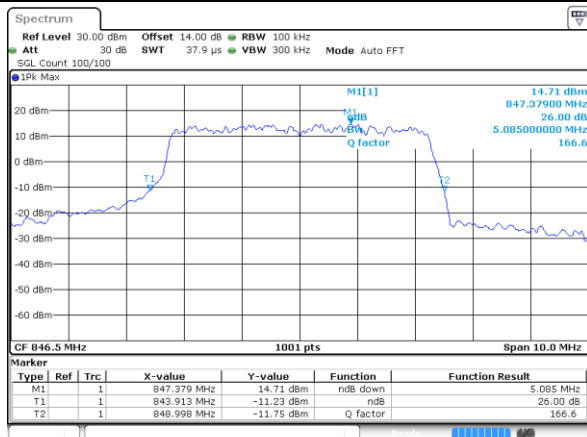
Date: 22 MAR 2020 09:19:02

Middle Channel / 5MHz / 16QAM



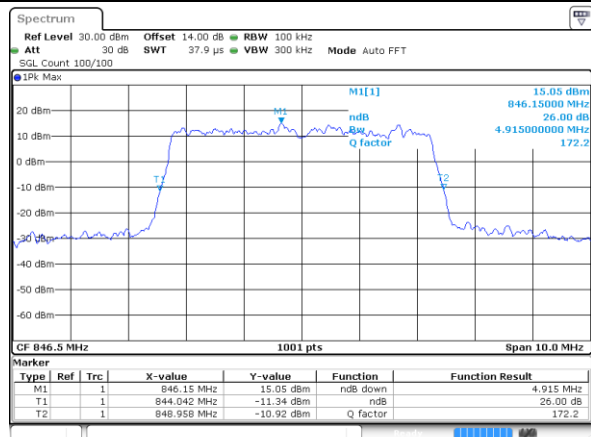
Date: 22 MAR 2020 09:19:13

Highest Channel / 5MHz / QPSK



Date: 22 MAR 2020 09:21:44

Highest Channel / 5MHz / 16QAM

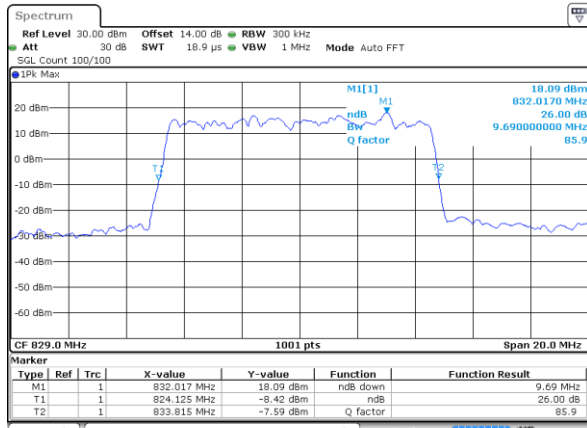


Date: 22 MAR 2020 09:21:55



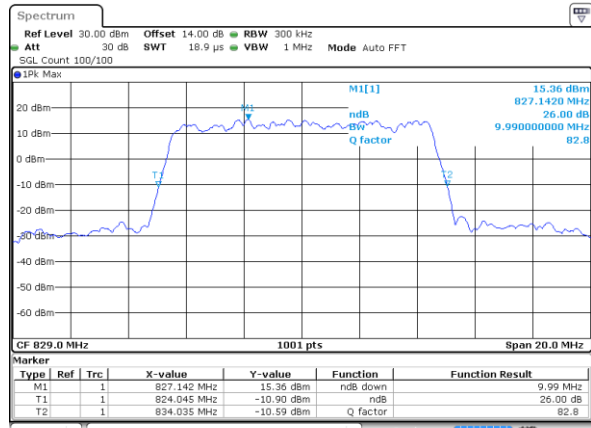
LTE Band 5

Lowest Channel / 10MHz / QPSK



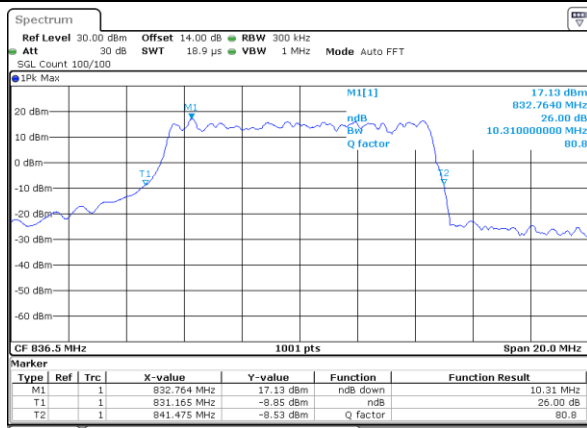
Date: 22 MAR 2020 09:31:01

Lowest Channel / 10MHz / 16QAM



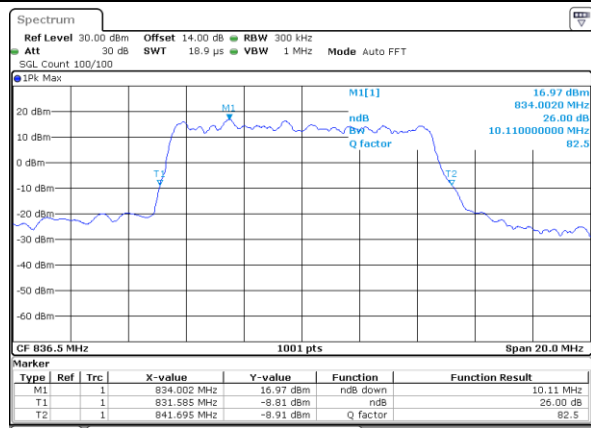
Date: 22 MAR 2020 09:31:12

Middle Channel / 10MHz / QPSK



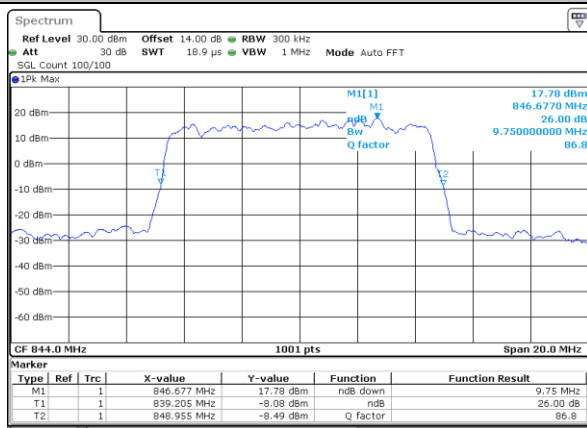
Date: 22 MAR 2020 09:40:19

Middle Channel / 10MHz / 16QAM



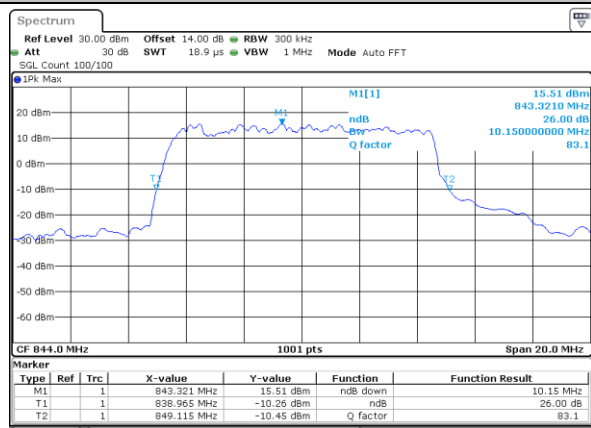
Date: 22 MAR 2020 09:40:29

Highest Channel / 10MHz / QPSK



Date: 22 MAR 2020 09:43:01

Highest Channel / 10MHz / 16QAM



Date: 22 MAR 2020 09:43:11



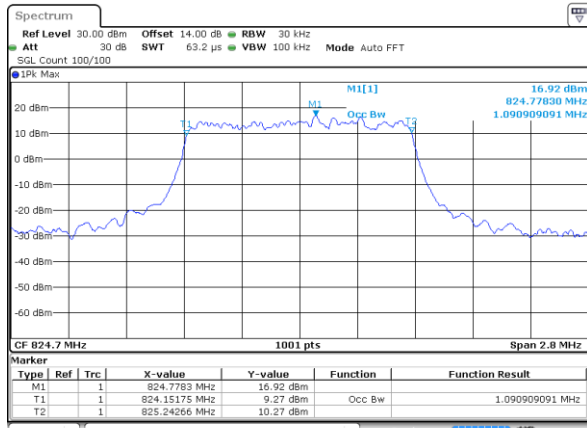
Occupied Bandwidth

Mode	LTE Band 5 : 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	2.71	2.75	4.49	4.48	9.03	9.07	-	-	-	-
Middle CH	1.1	1.1	2.78	2.74	4.47	4.48	9.09	9.05	-	-	-	-
Highest CH	1.1	1.1	2.74	2.71	4.48	4.49	9.01	9.03	-	-	-	-



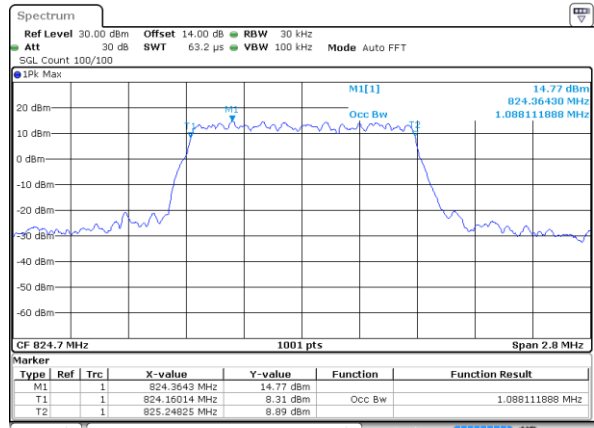
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



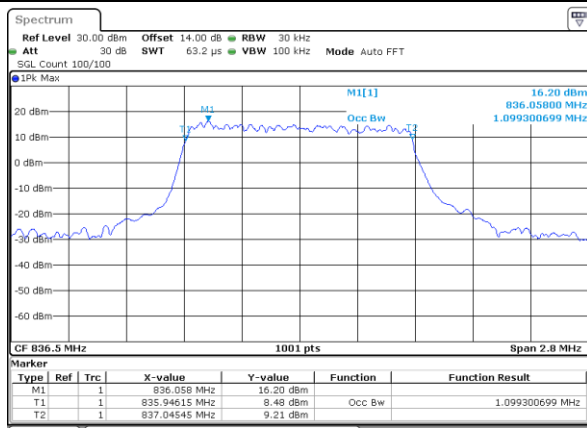
Date: 22 MAR 2020 09:51:56

Lowest Channel / 1.4MHz / 16QAM



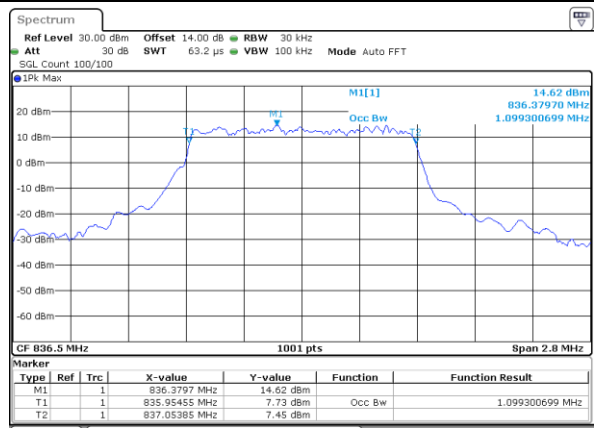
Date: 22 MAR 2020 09:52:07

Middle Channel / 1.4MHz / QPSK



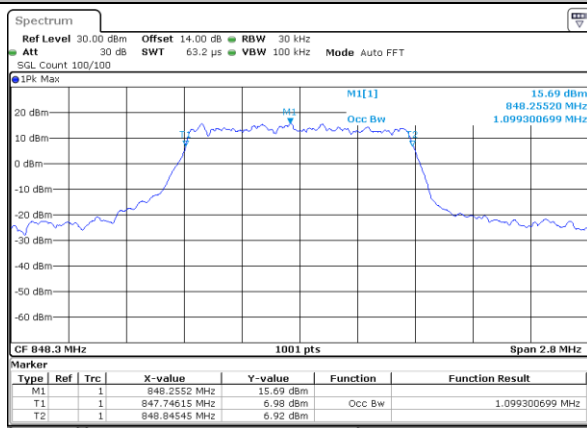
Date: 22 MAR 2020 09:57:58

Middle Channel / 1.4MHz / 16QAM



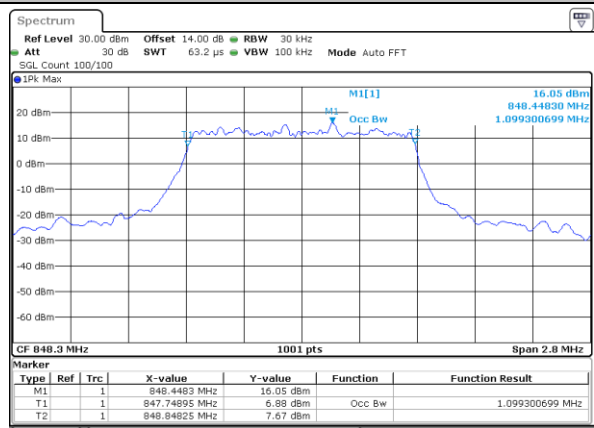
Date: 22 MAR 2020 09:58:09

Highest Channel / 1.4MHz / QPSK



Date: 22 MAR 2020 10:00:40

Highest Channel / 1.4MHz / 16QAM

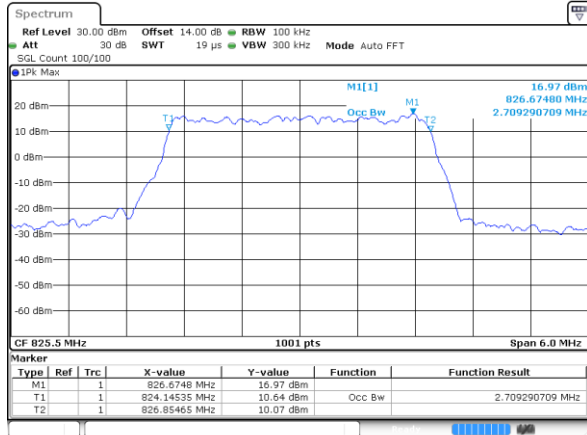


Date: 22 MAR 2020 10:00:51

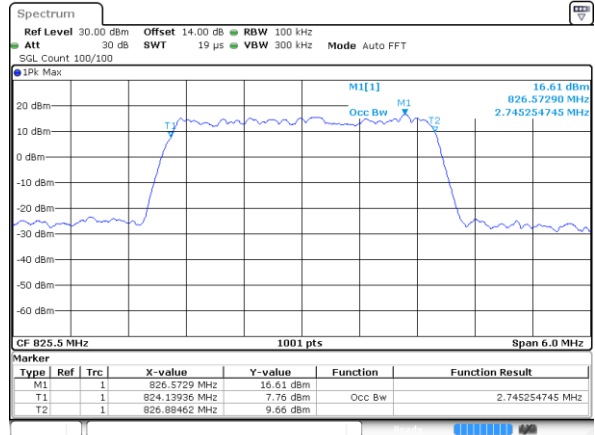


LTE Band 5

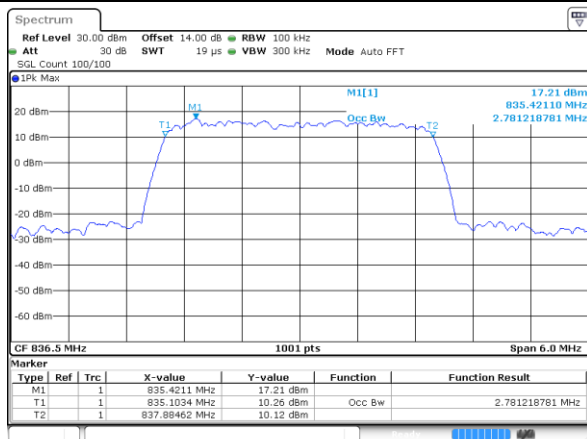
Lowest Channel / 3MHz / QPSK



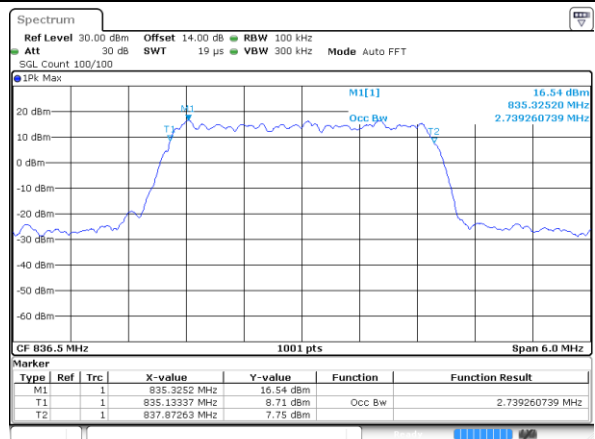
Lowest Channel / 3MHz / 16QAM



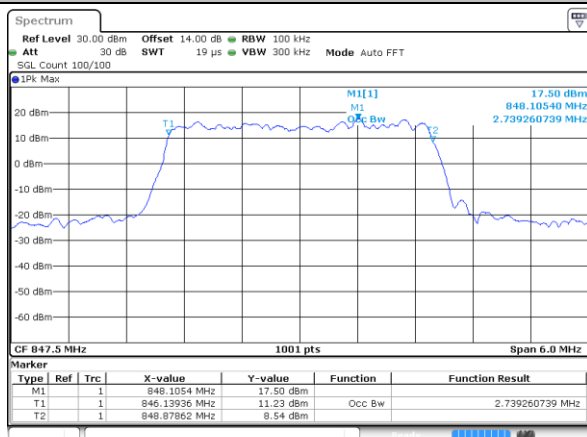
Middle Channel / 3MHz / QPSK



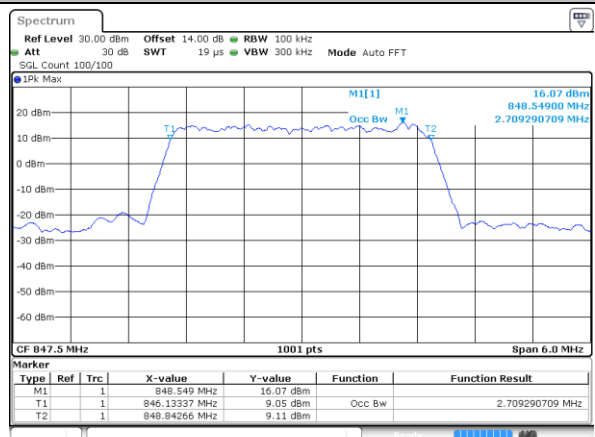
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



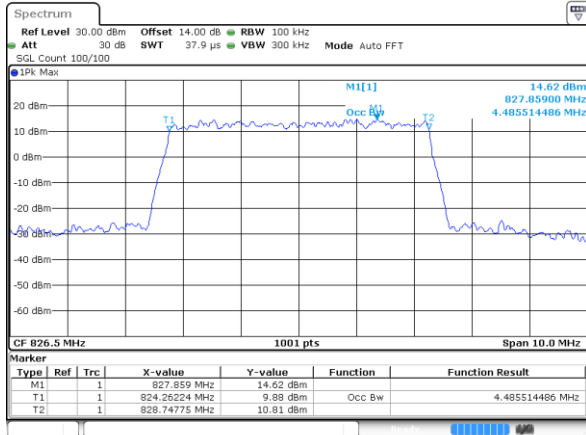
Highest Channel / 3MHz / 16QAM





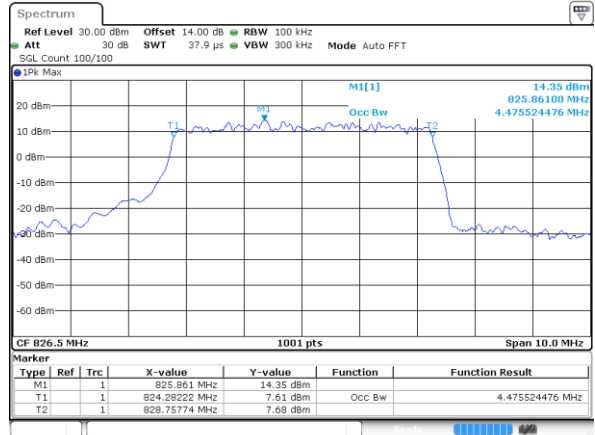
LTE Band 5

Lowest Channel / 5MHz / QPSK



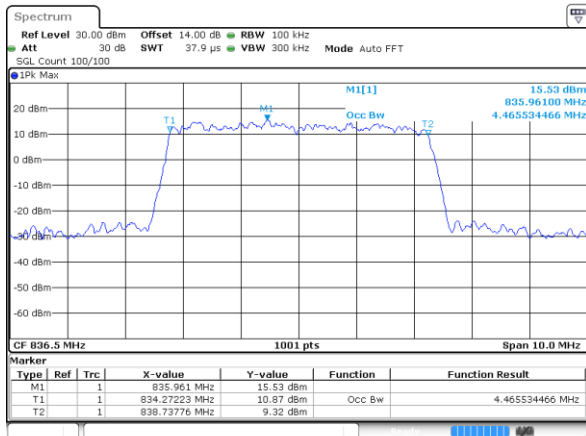
Date: 22 MAR 2020 09:09:23

Lowest Channel / 5MHz / 16QAM



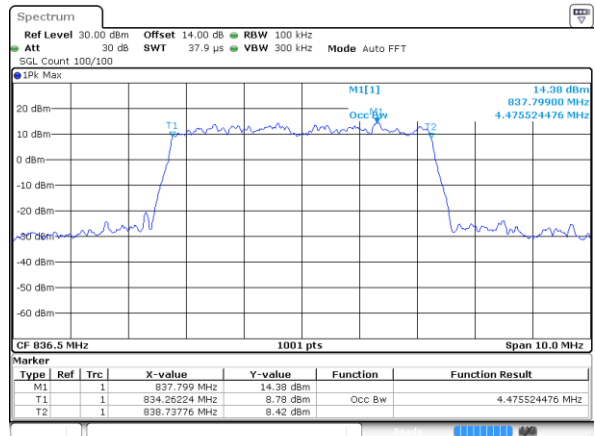
Date: 22 MAR 2020 09:09:34

Middle Channel / 5MHz / QPSK



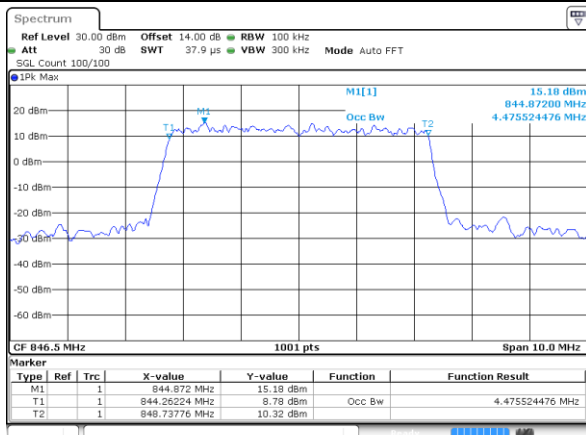
Date: 22 MAR 2020 09:18:40

Middle Channel / 5MHz / 16QAM



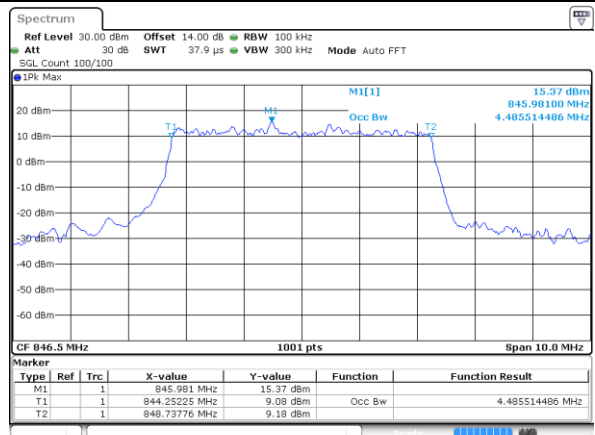
Date: 22 MAR 2020 09:18:51

Highest Channel / 5MHz / QPSK



Date: 22 MAR 2020 09:21:22

Highest Channel / 5MHz / 16QAM

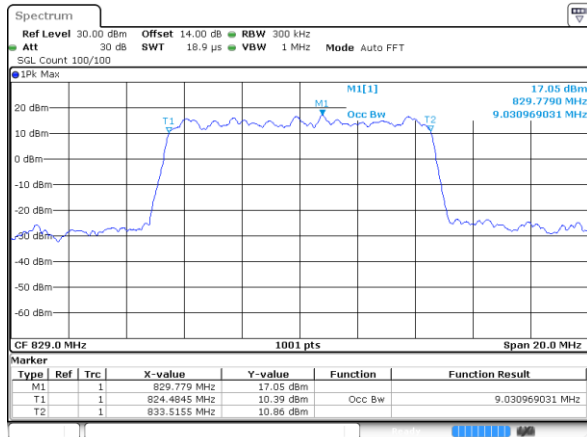


Date: 22 MAR 2020 09:21:33

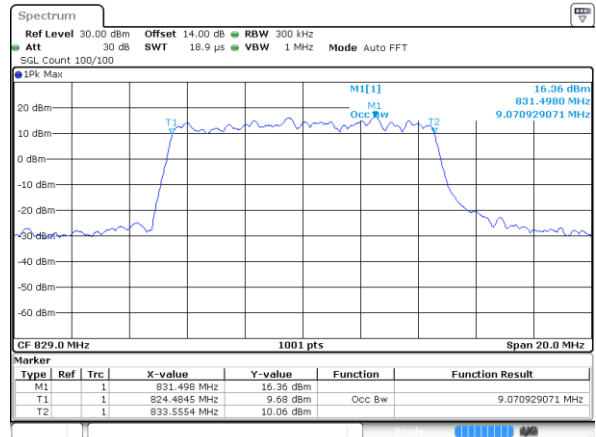


LTE Band 5

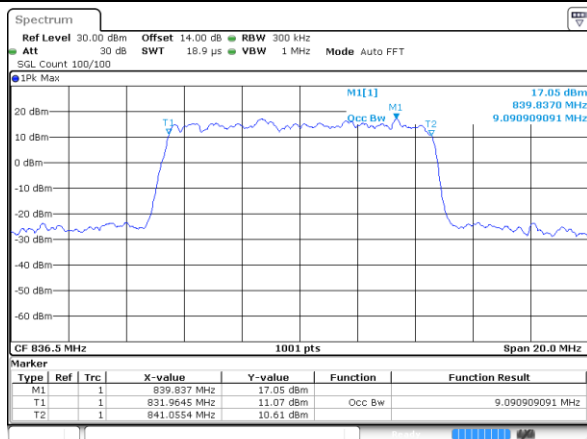
Lowest Channel / 10MHz / QPSK



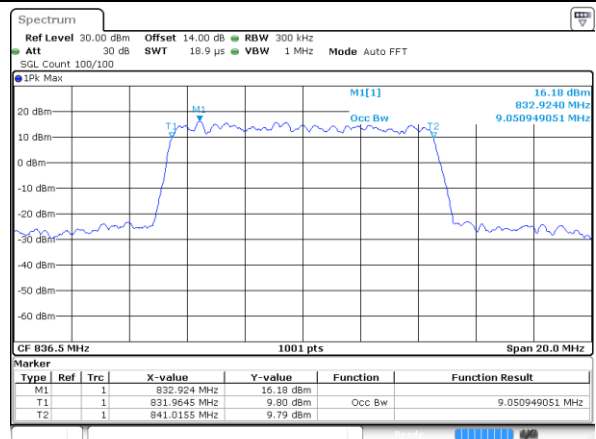
Lowest Channel / 10MHz / 16QAM



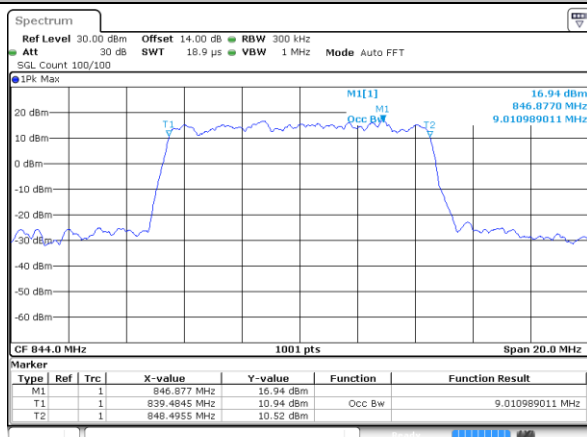
Middle Channel / 10MHz / QPSK



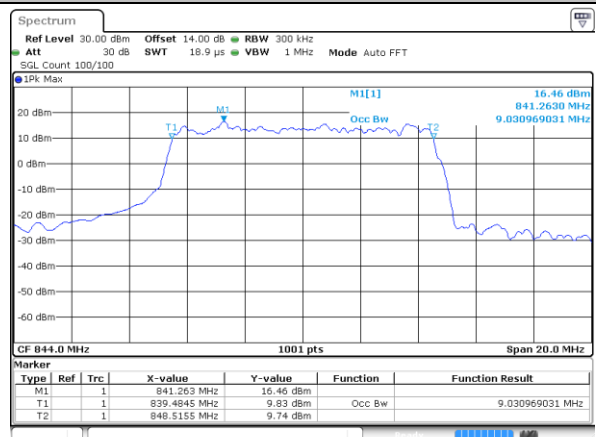
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



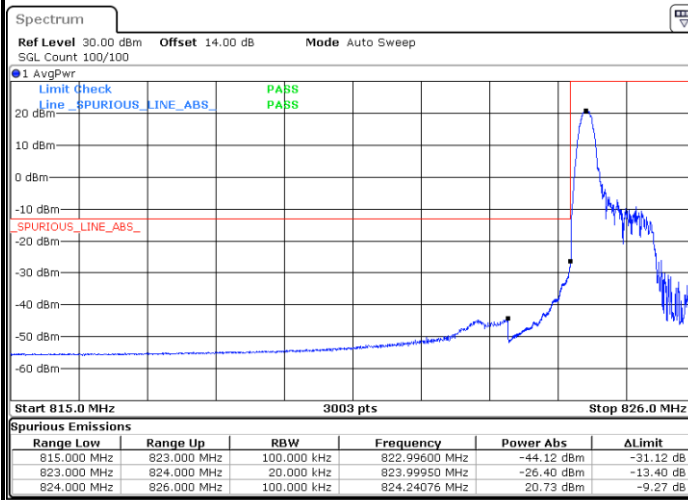


Conducted Band Edge

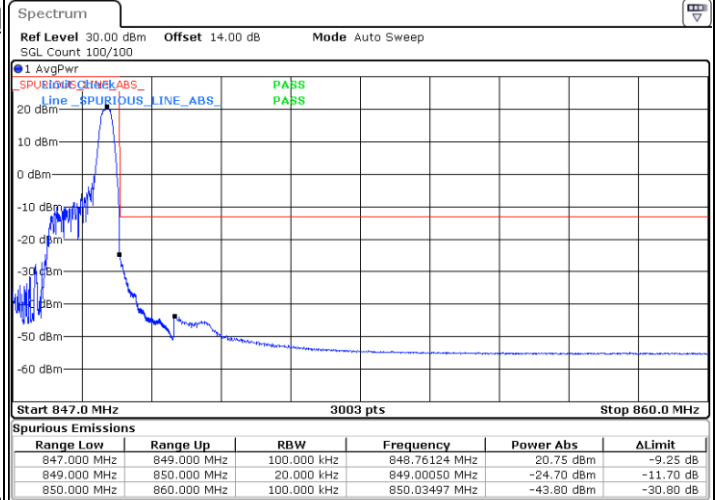


LTE Band 5 / 1.4MHz / QPSK

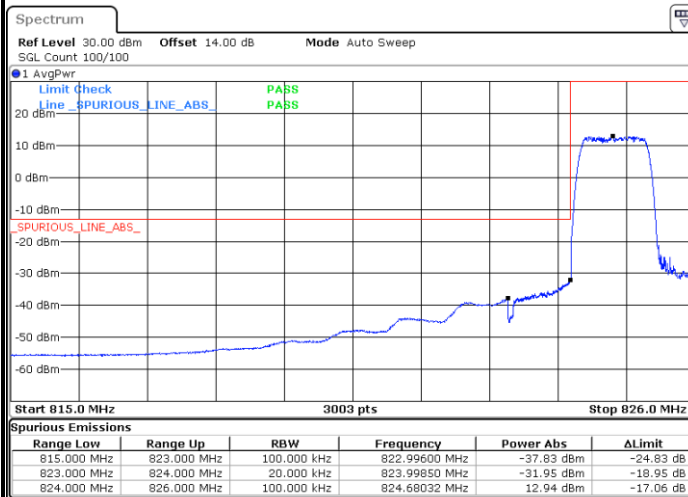
Lowest Band Edge / 1RB



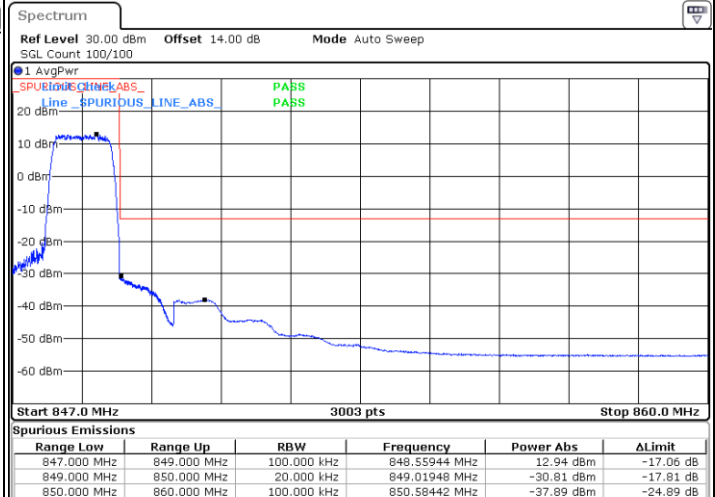
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



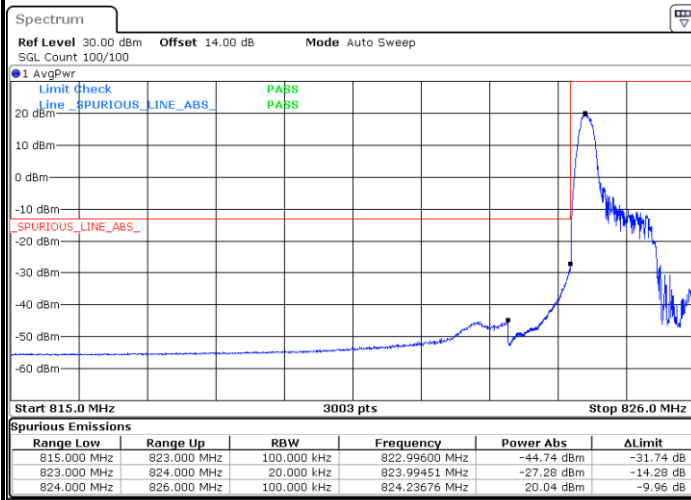
Highest Band Edge / Full RB



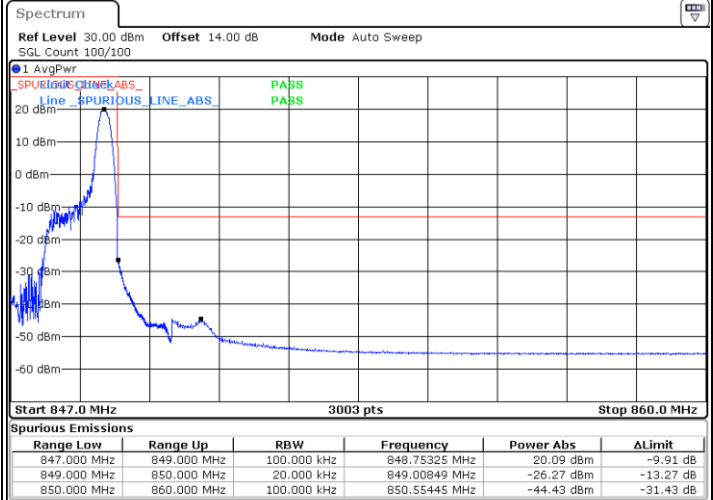


LTE Band 5 / 1.4MHz / 16QAM

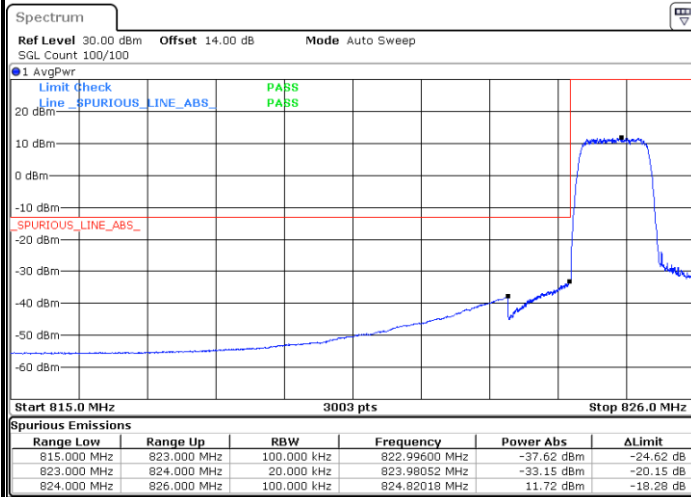
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



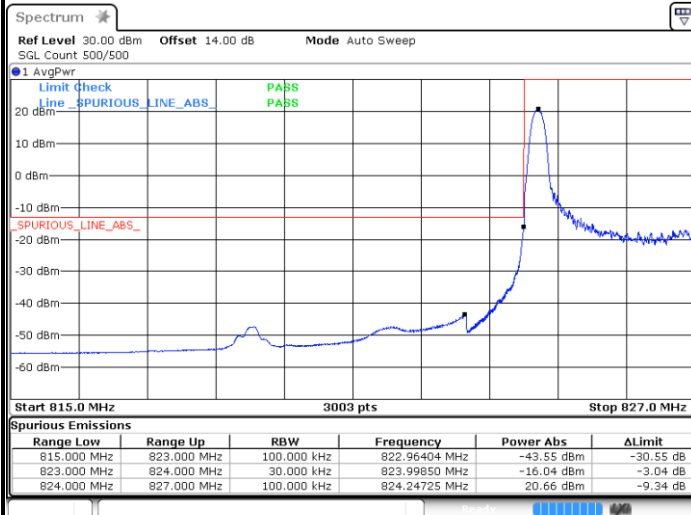
Highest Band Edge / Full RB





LTE Band 5 / 3MHz / QPSK

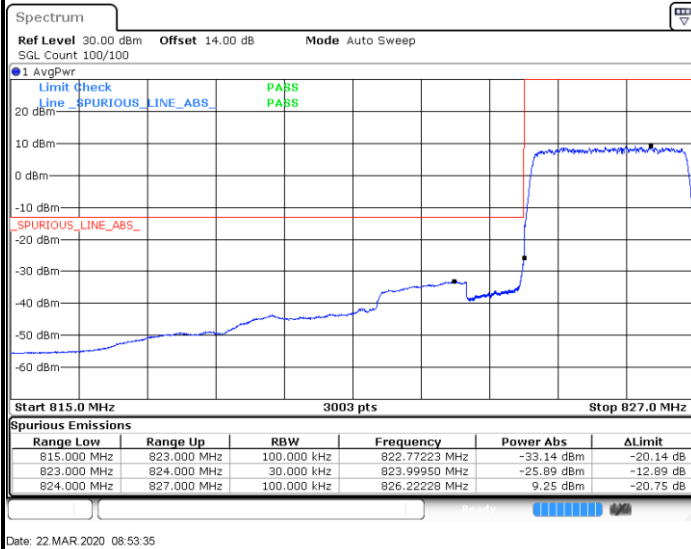
Lowest Band Edge / 1RB



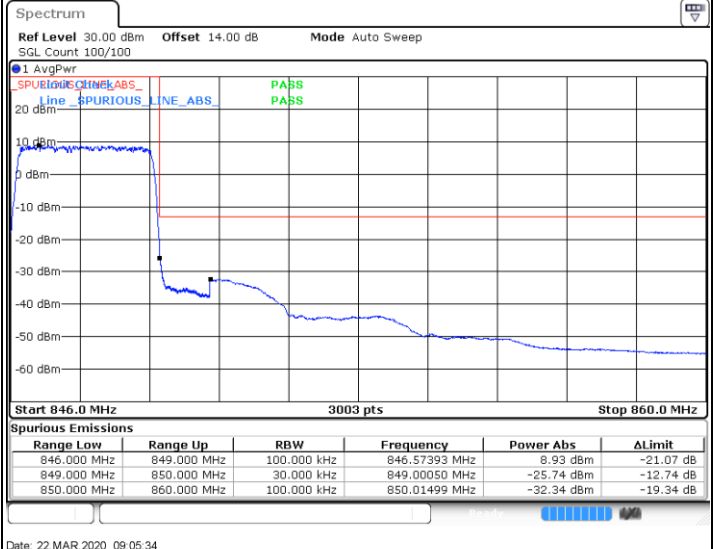
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



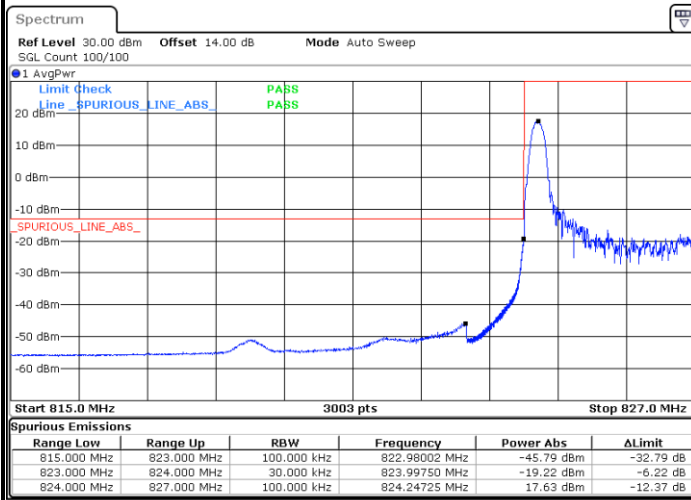
Highest Band Edge / Full RB



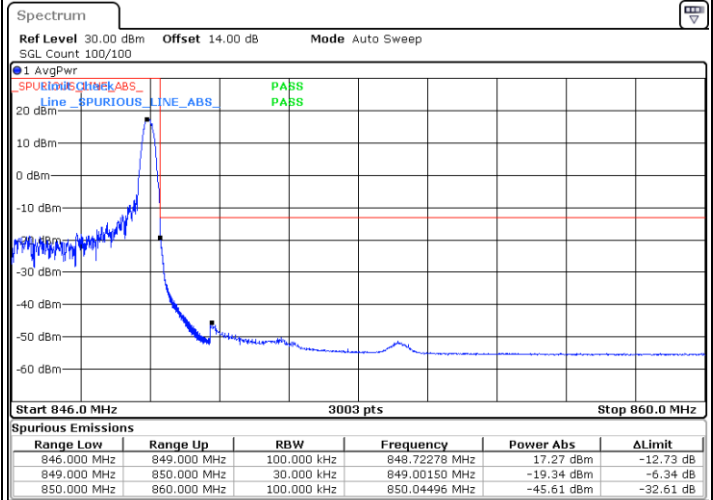


LTE Band 5 / 3MHz / 16QAM

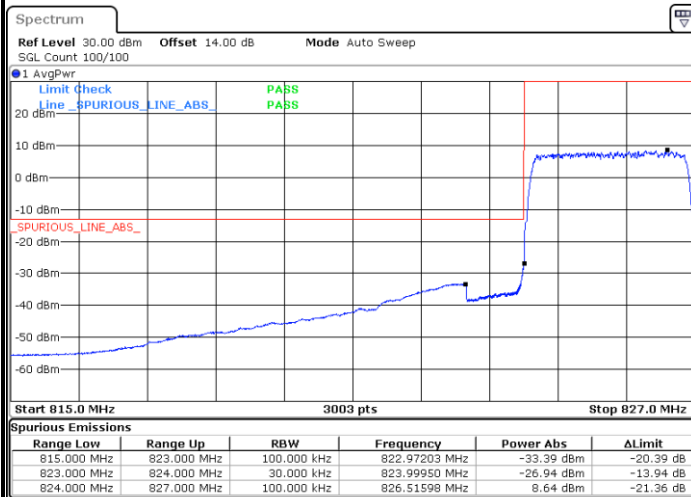
Lowest Band Edge / 1 RB



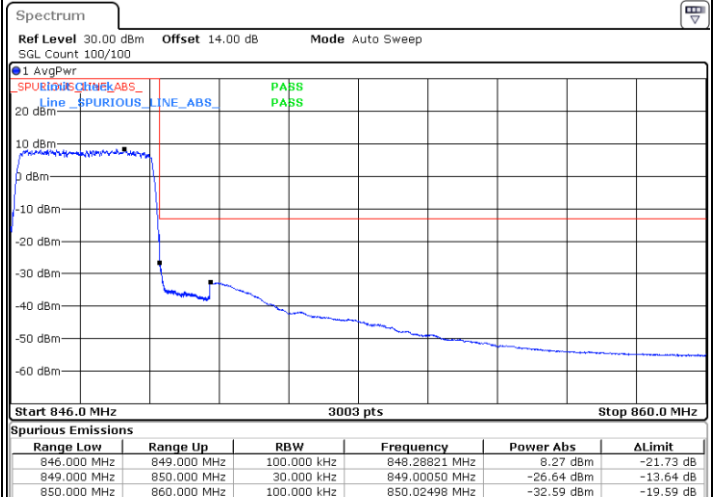
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



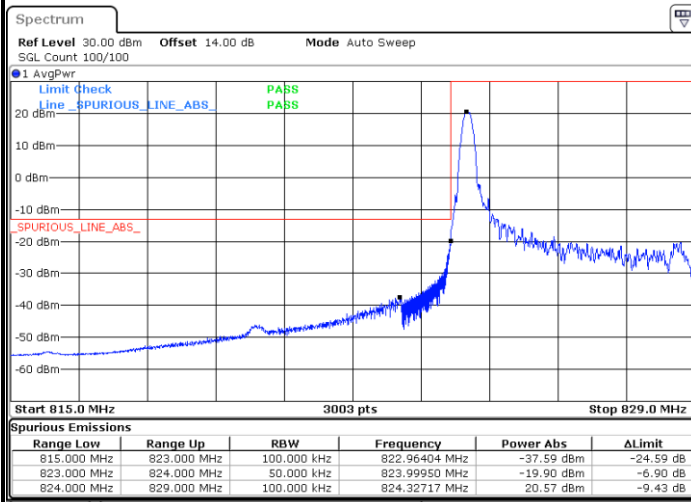
Highest Band Edge / Full RB



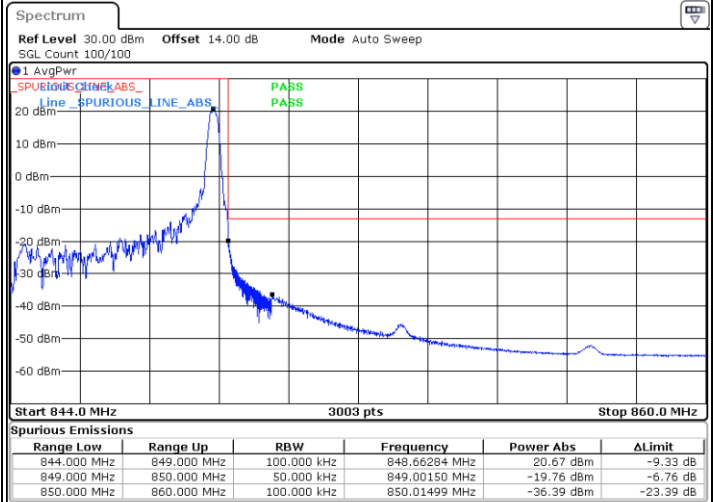


LTE Band 5 / 5MHz / QPSK

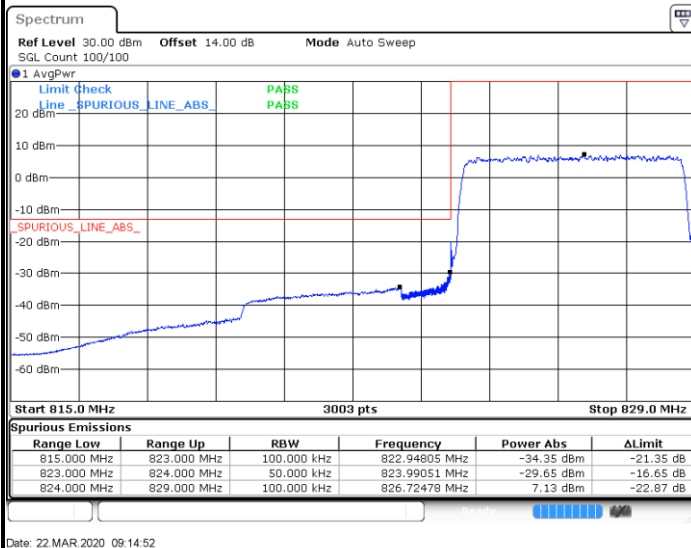
Lowest Band Edge / 1 RB



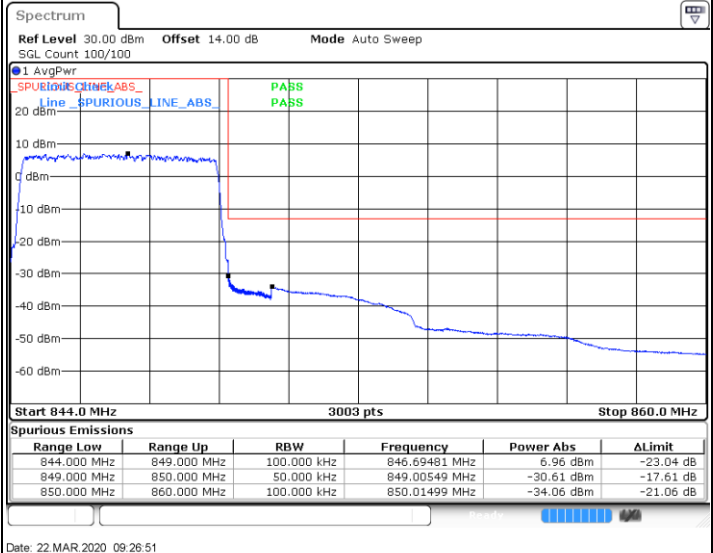
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



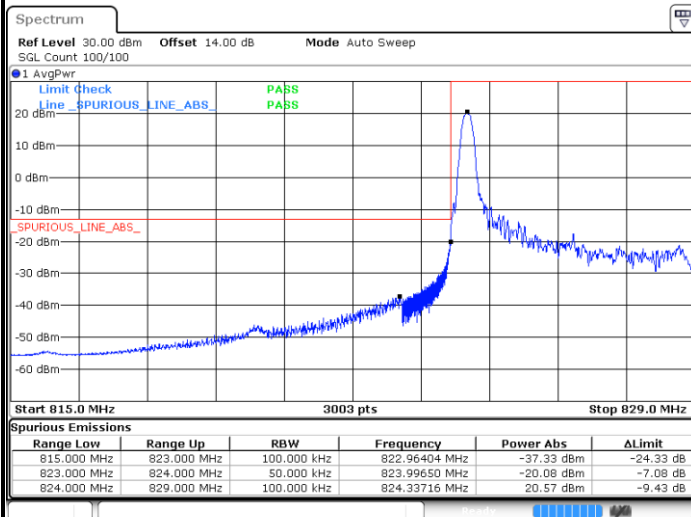
Highest Band Edge / Full RB



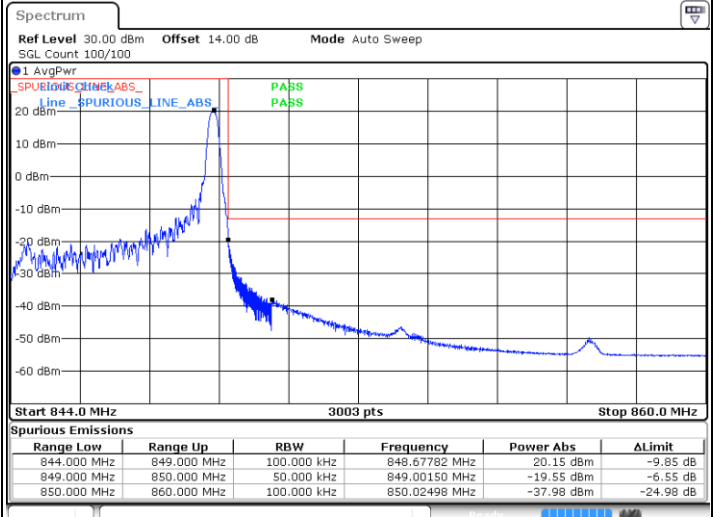


LTE Band 5 / 5MHz / 16QAM

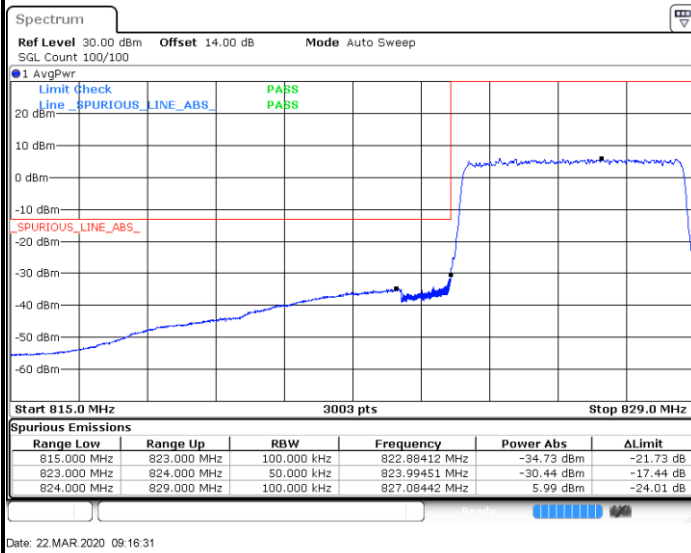
Lowest Band Edge / 1RB



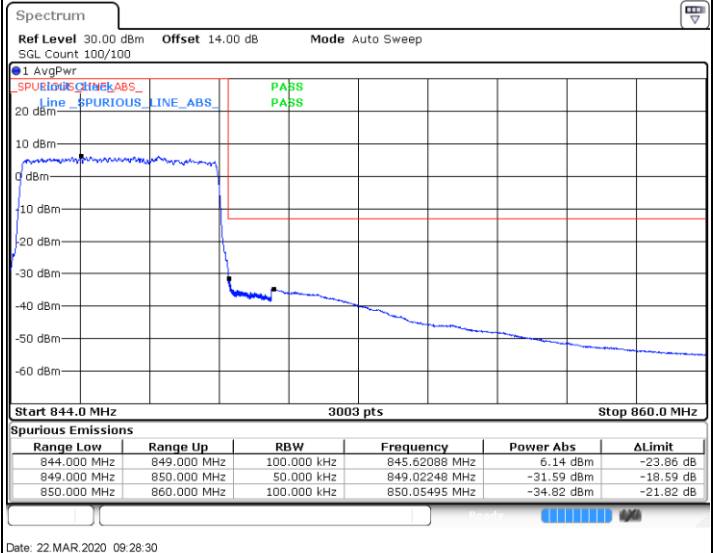
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



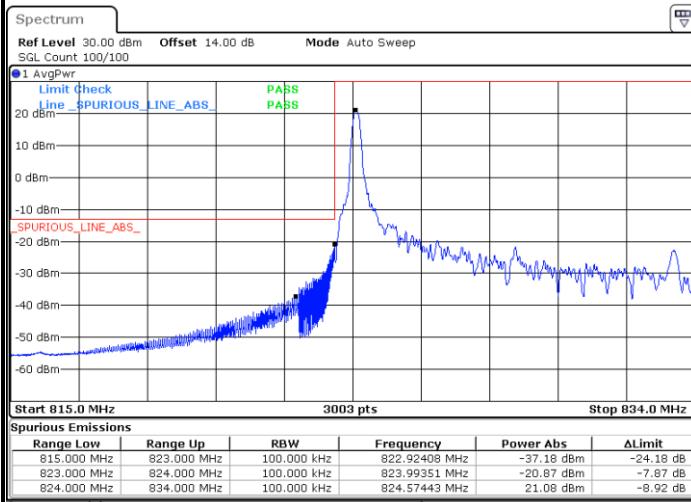
Highest Band Edge / Full RB



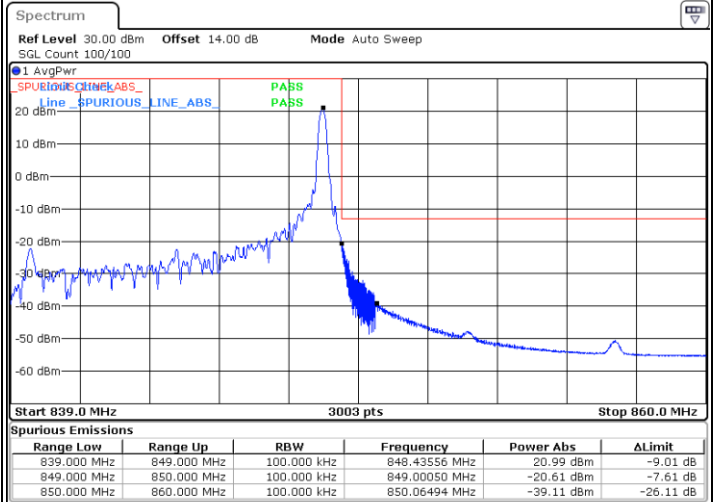


LTE Band 5 / 10MHz / QPSK

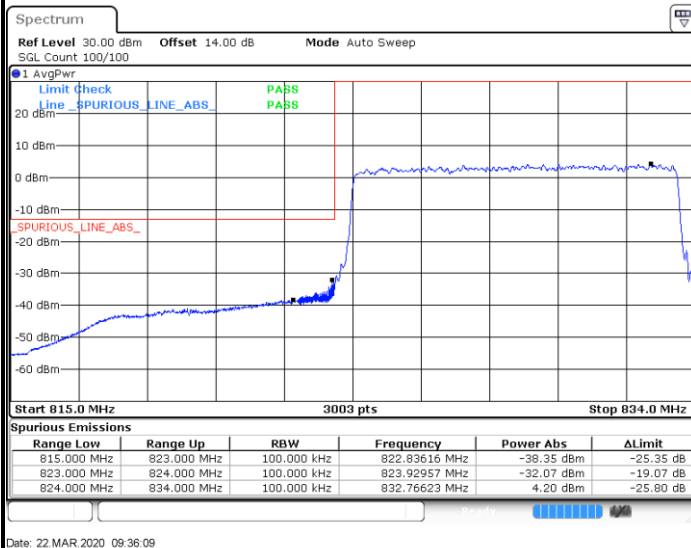
Lowest Band Edge / 1 RB



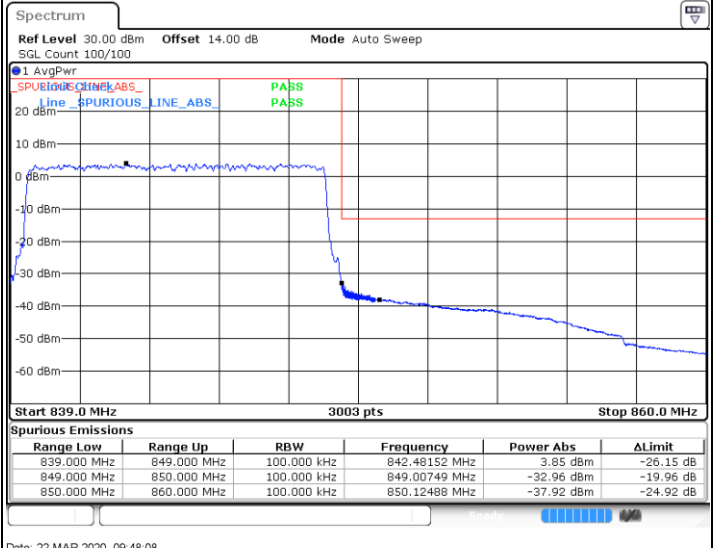
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



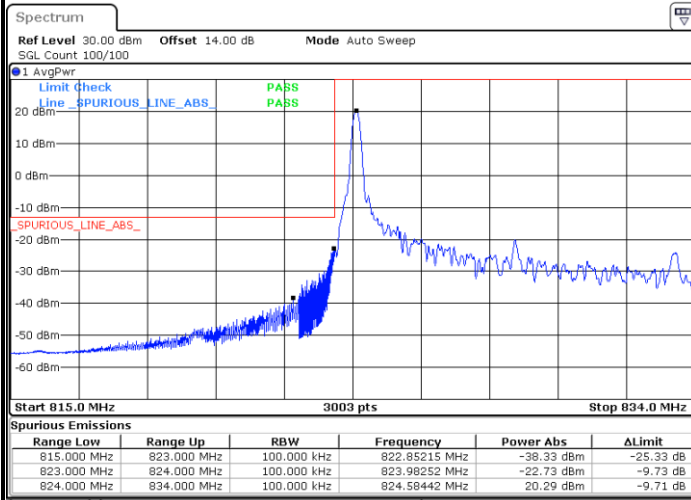
Highest Band Edge / Full RB



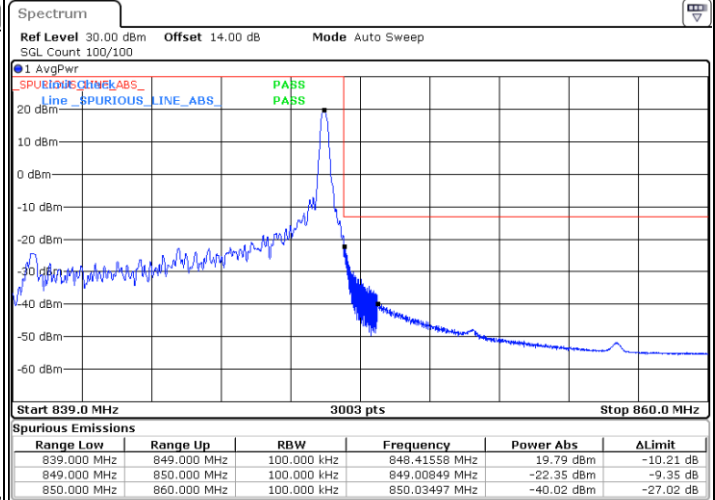


LTE Band 5 / 10MHz / 16QAM

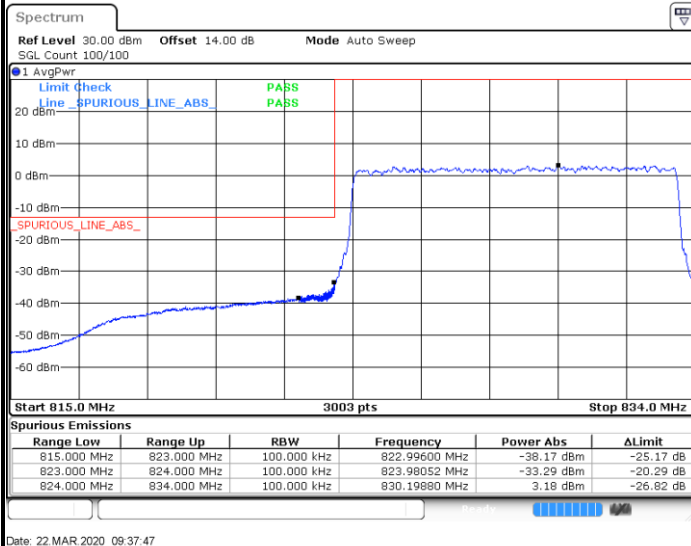
Lowest Band Edge / 1 RB



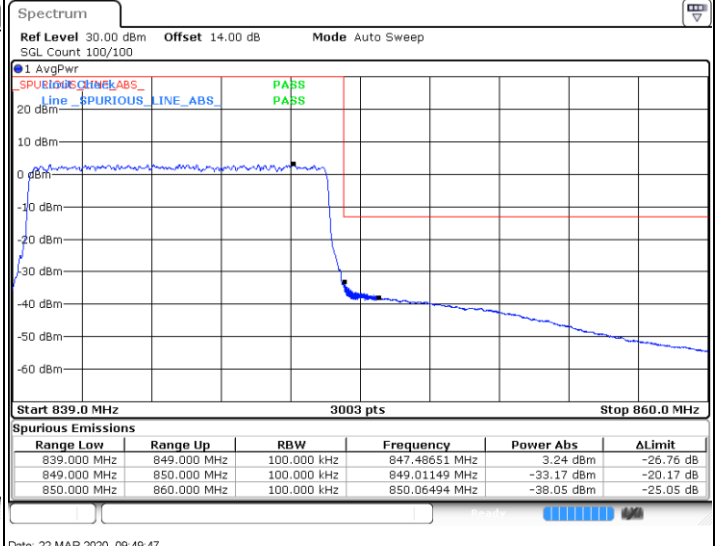
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



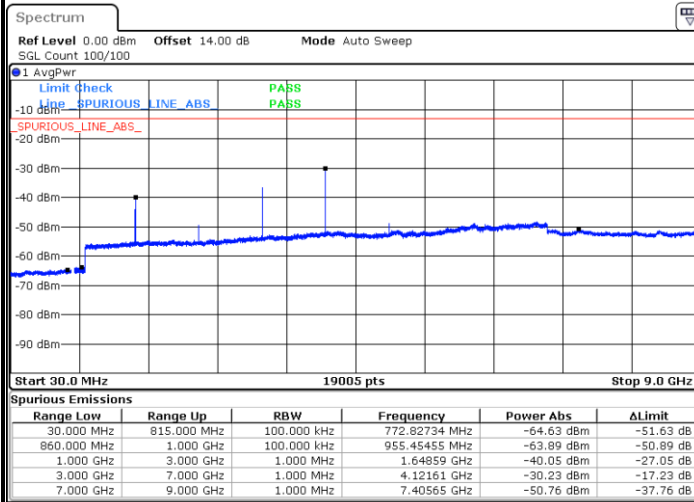


Conducted Spurious Emission



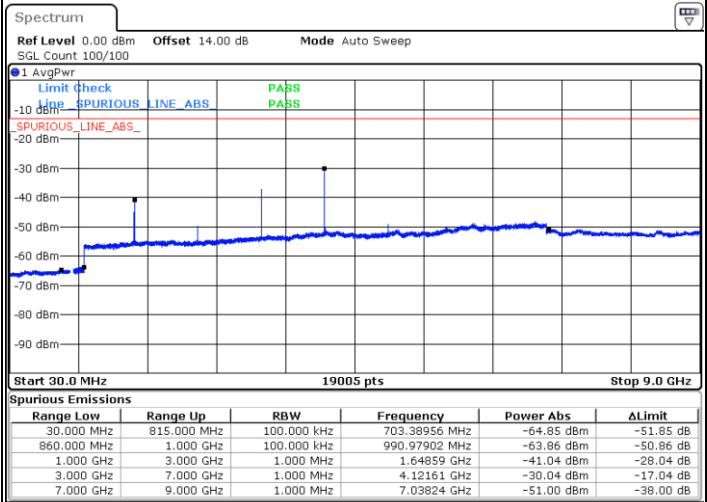
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



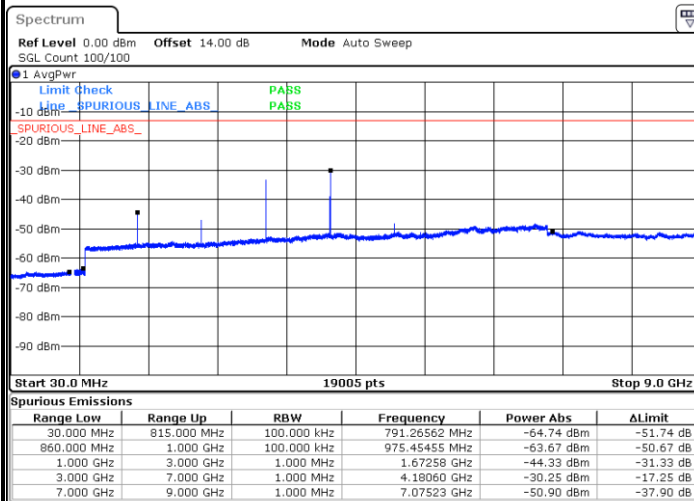
Date: 22 MAR 2020 09:56:48

Lowest Channel / 16QAM



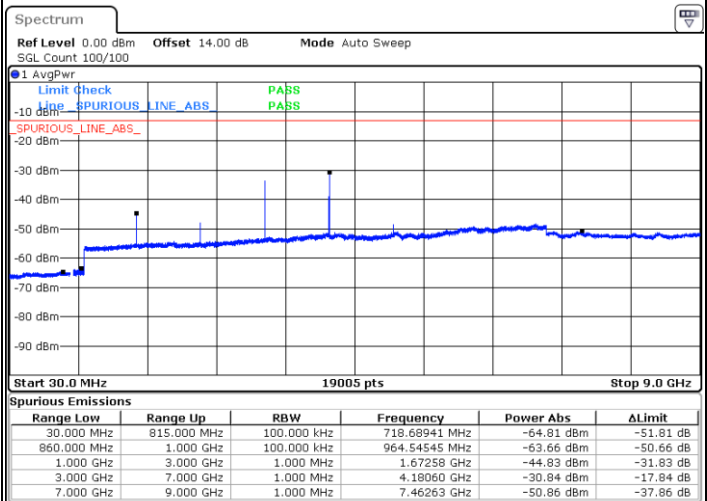
Date: 22 MAR 2020 09:57:47

Middle Channel / QPSK



Date: 22 MAR 2020 09:59:30

Middle Channel / 16QAM

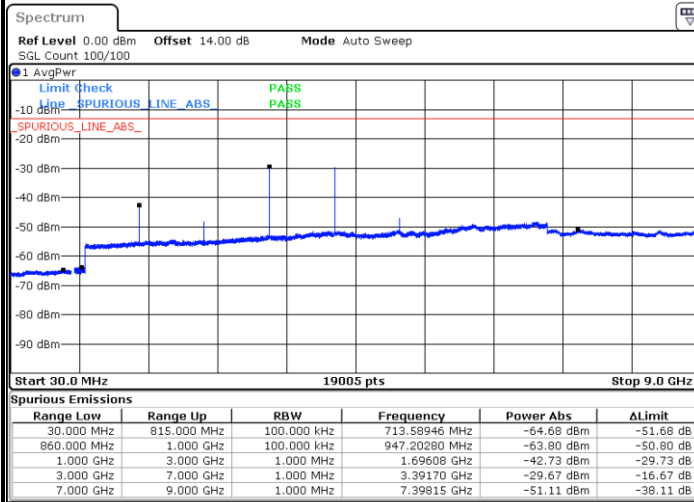


Date: 22 MAR 2020 10:00:29



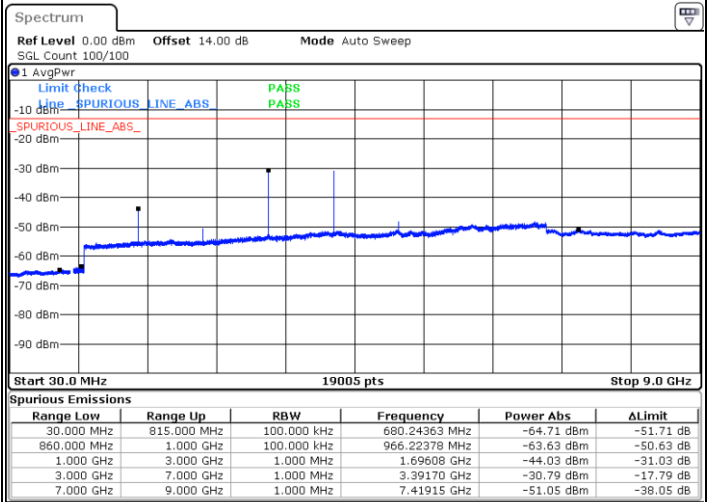
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 22 MAR 2020 10:08:48

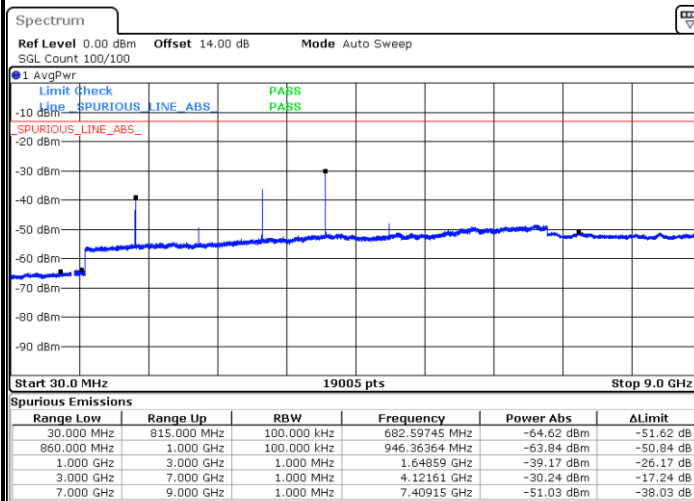
Highest Channel / 16QAM



Date: 22 MAR 2020 10:09:47

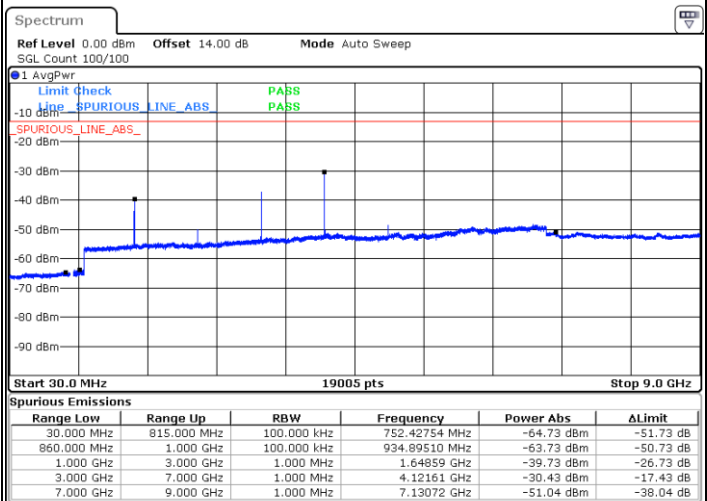
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 22 MAR 2020 08:56:14

Lowest Channel / 16QAM

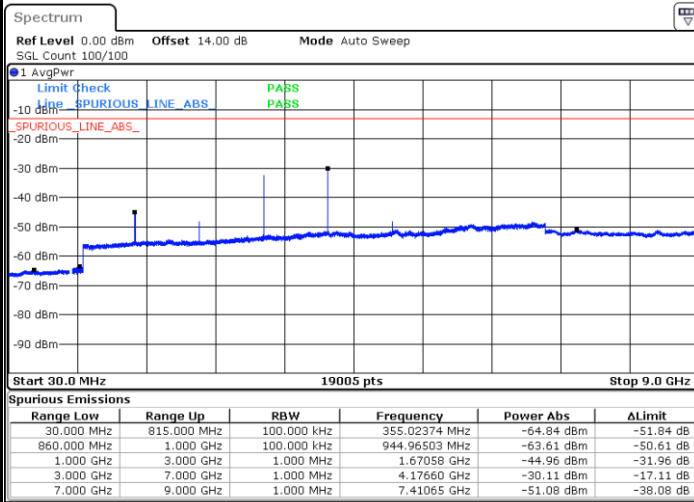


Date: 22 MAR 2020 08:57:13



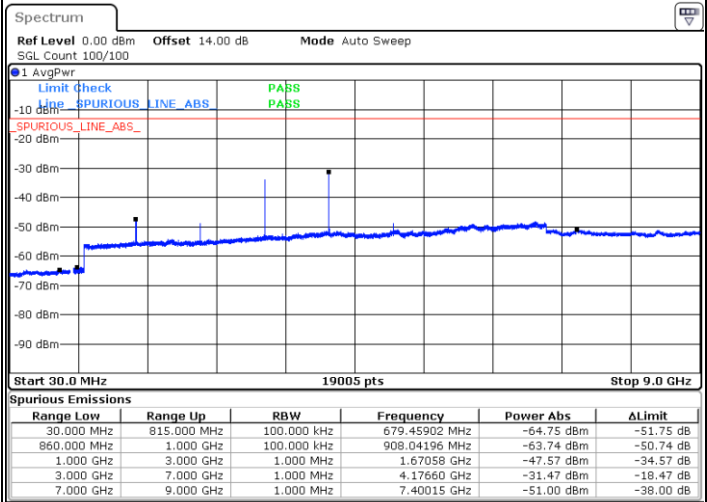
LTE Band 5 / 3MHz

Middle Channel / QPSK



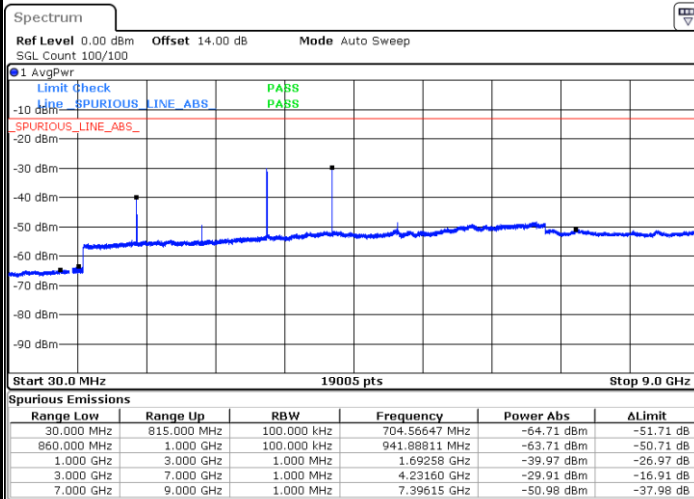
Date: 22 MAR 2020 08:58:56

Middle Channel / 16QAM



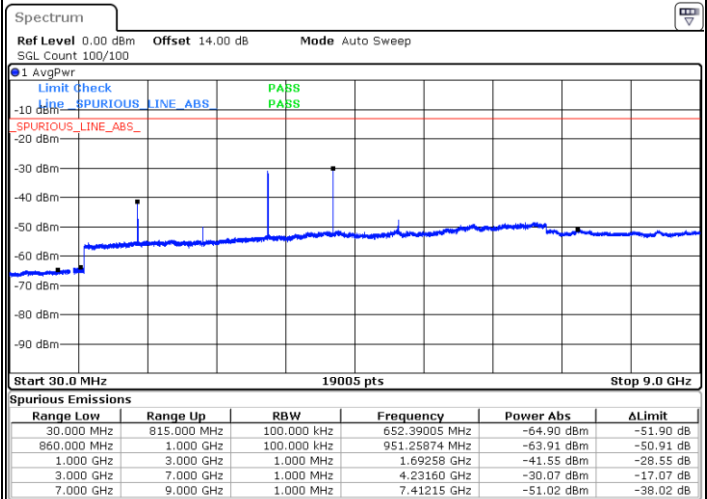
Date: 22 MAR 2020 08:59:55

Highest Channel / QPSK



Date: 22 MAR 2020 09:08:13

Highest Channel / 16QAM



Date: 22 MAR 2020 09:09:12