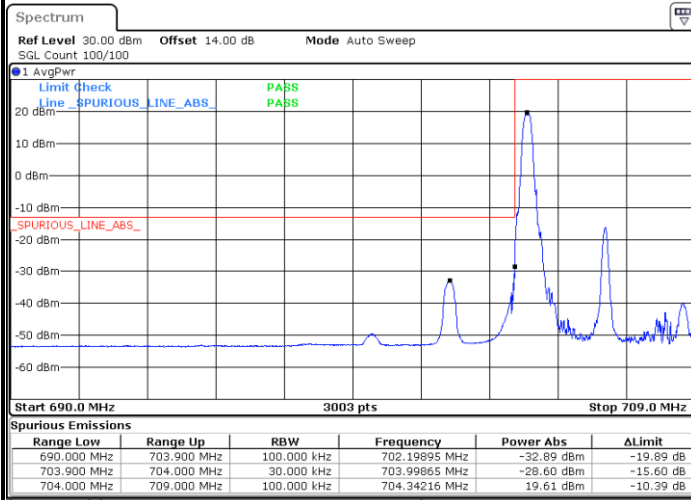


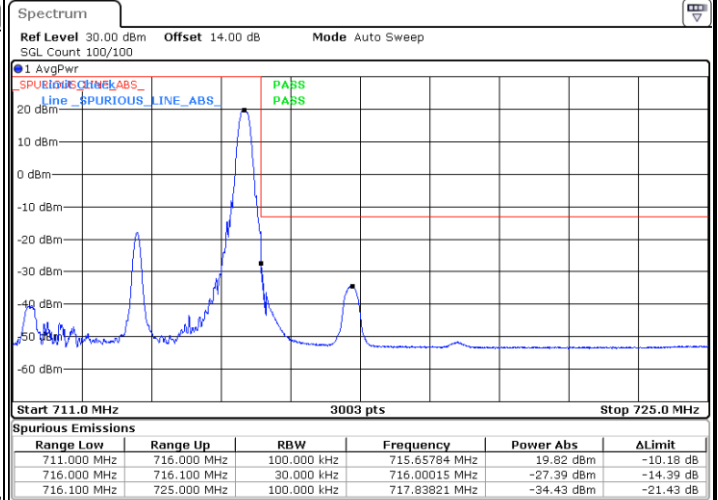


LTE Band 17 / 5MHz / 64QAM

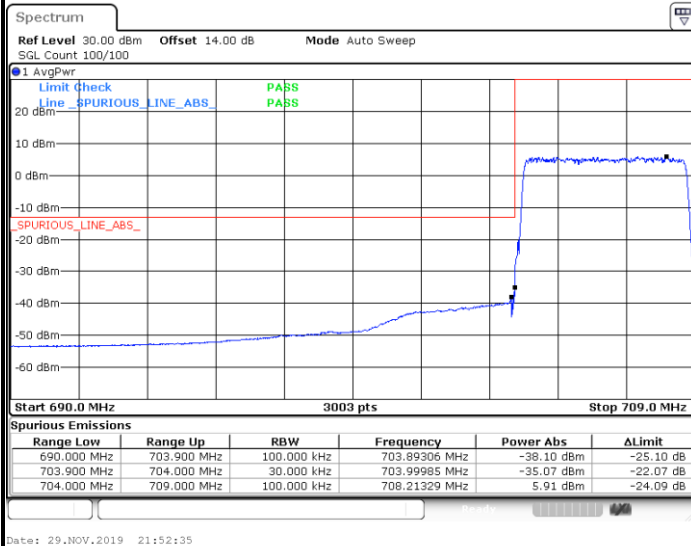
Lowest Band Edge / 1 RB



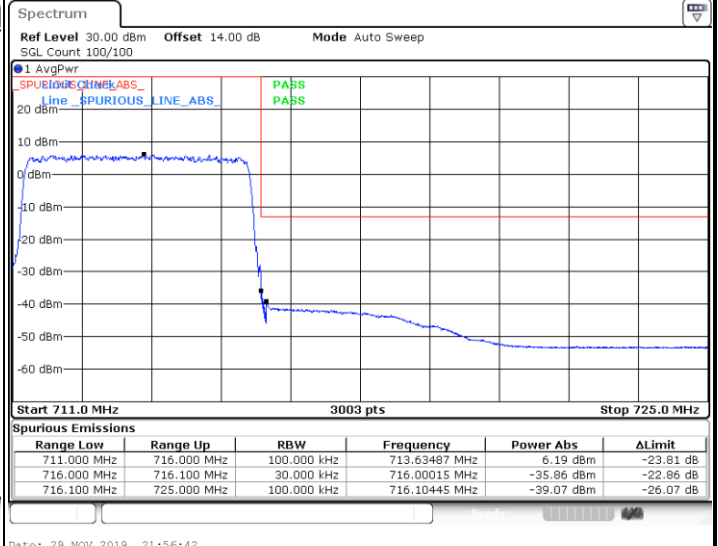
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



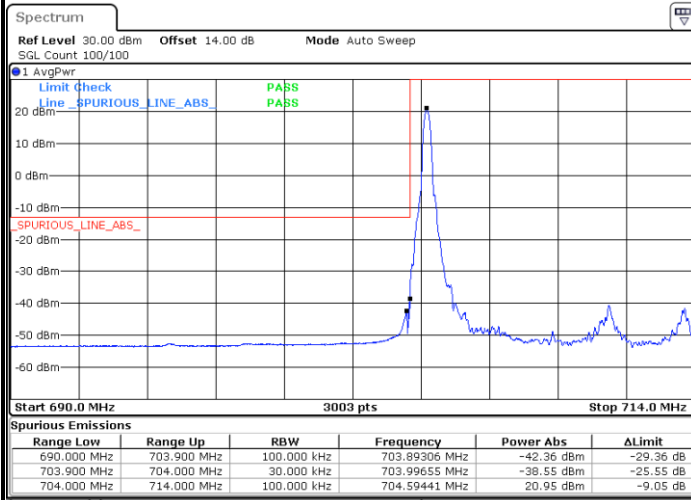
Highest Band Edge / Full RB



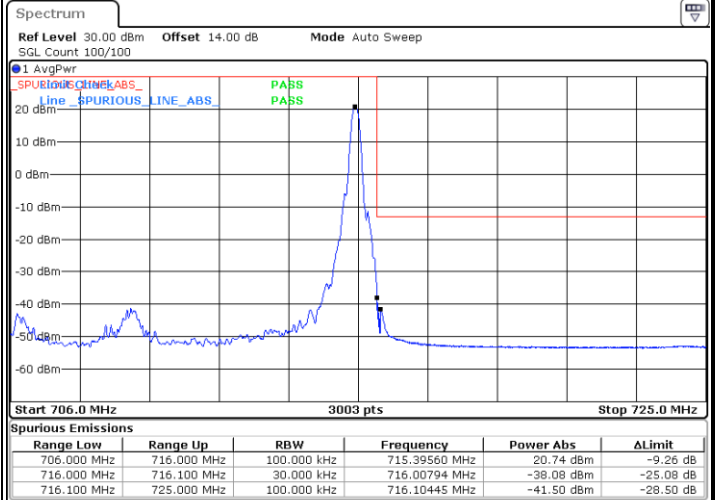


LTE Band 17 / 10MHz / QPSK

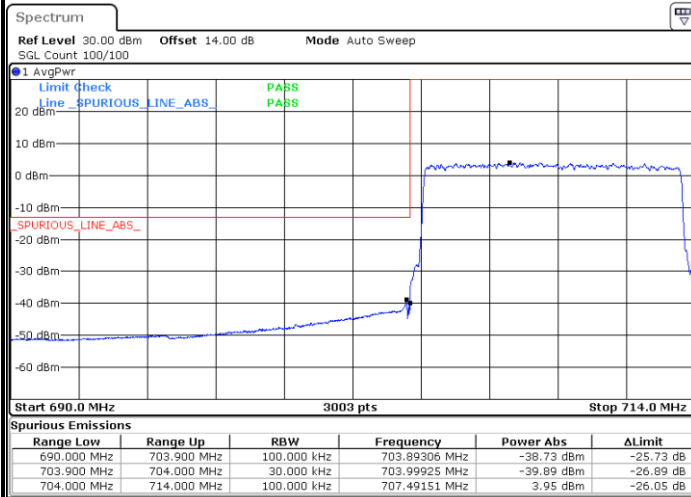
Lowest Band Edge / 1 RB



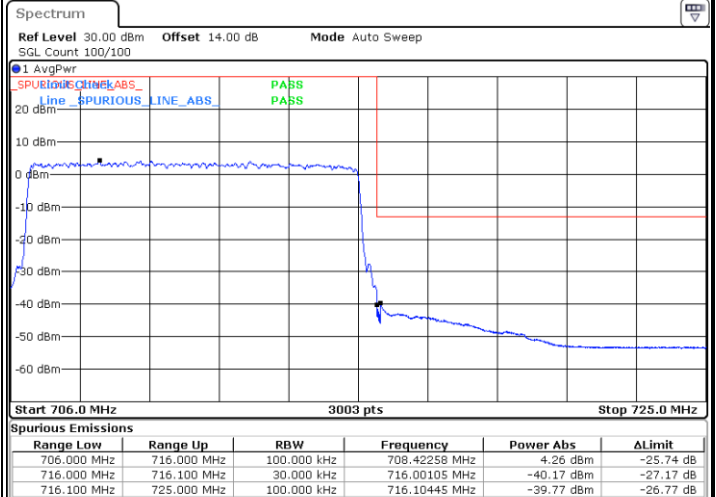
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



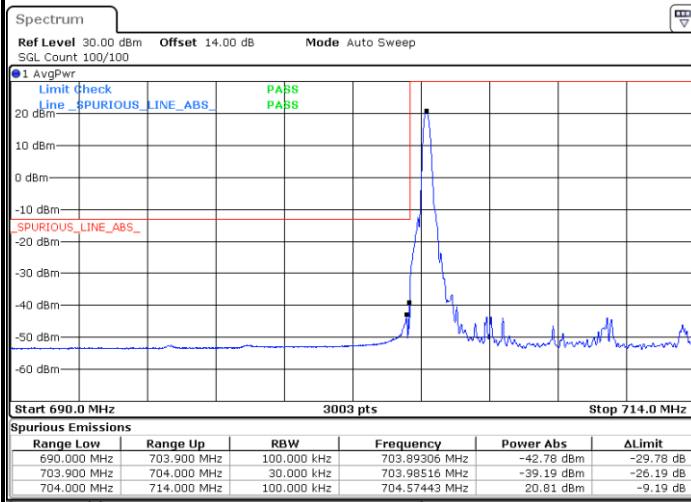
Highest Band Edge / Full RB



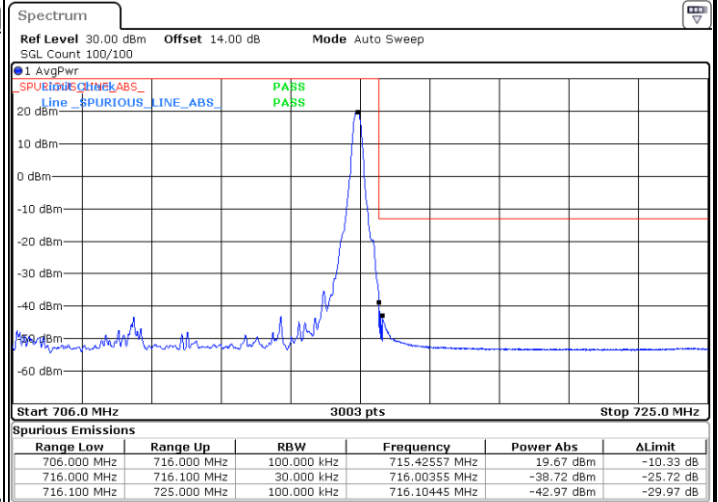


LTE Band 17 / 10MHz / 16QAM

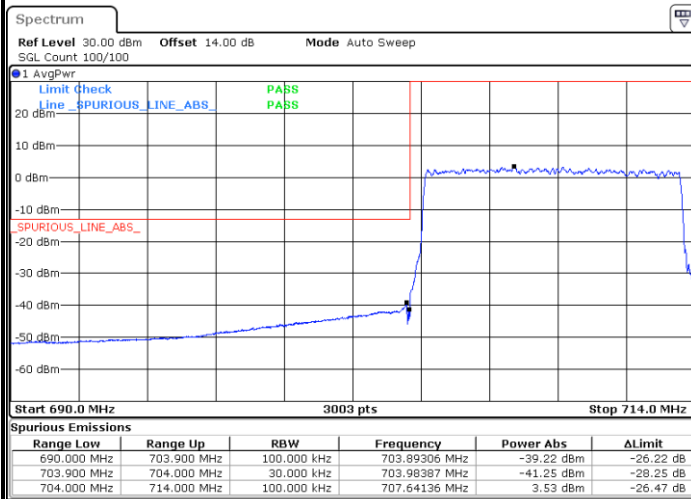
Lowest Band Edge / 1 RB



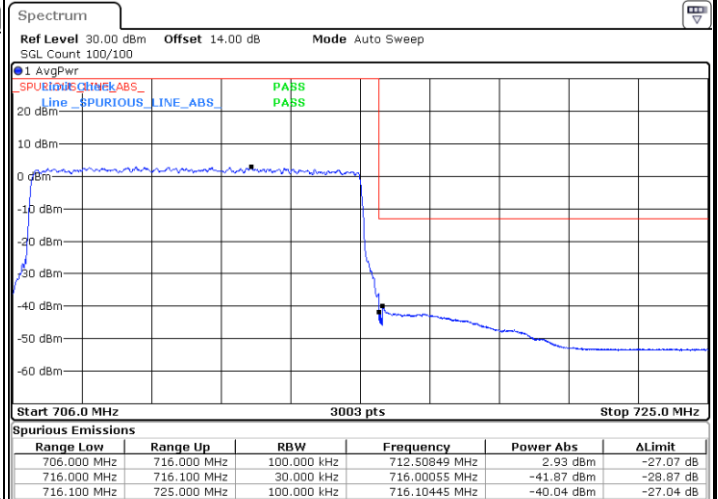
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



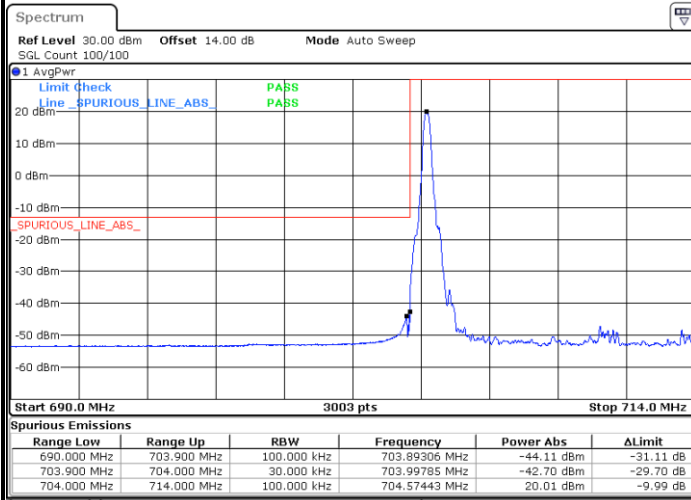
Highest Band Edge / Full RB



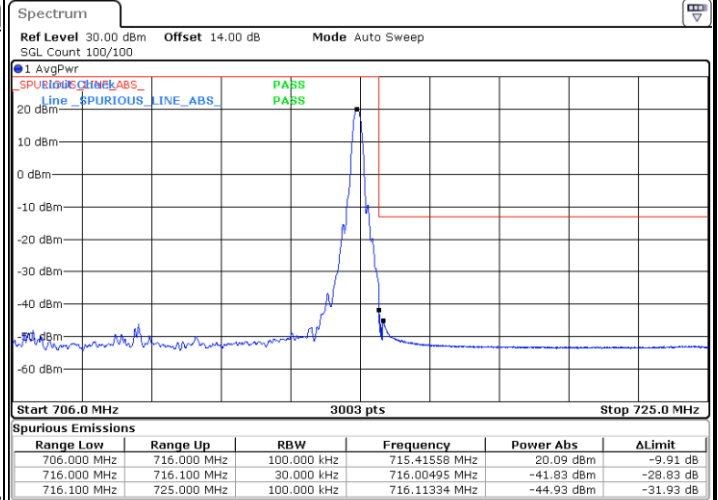


LTE Band 17 / 10MHz / 64QAM

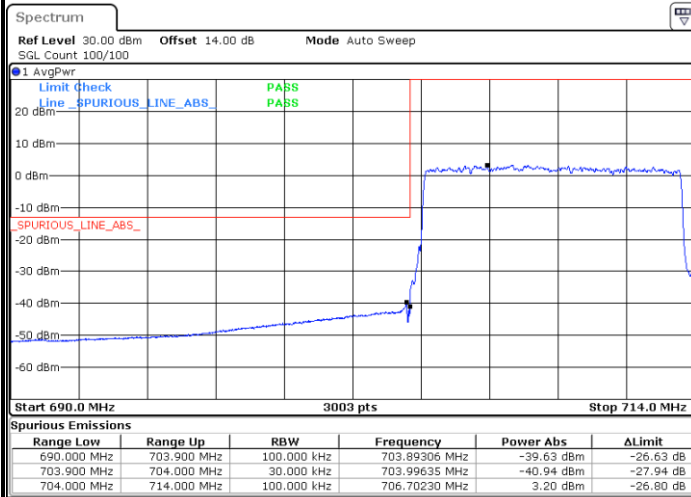
Lowest Band Edge / 1 RB



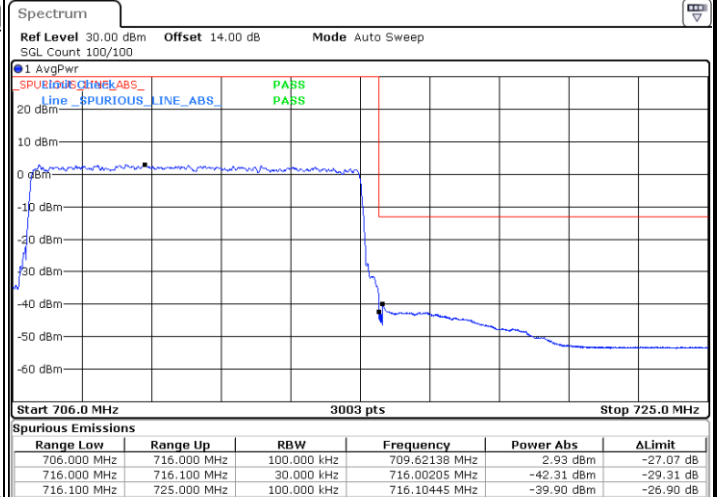
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

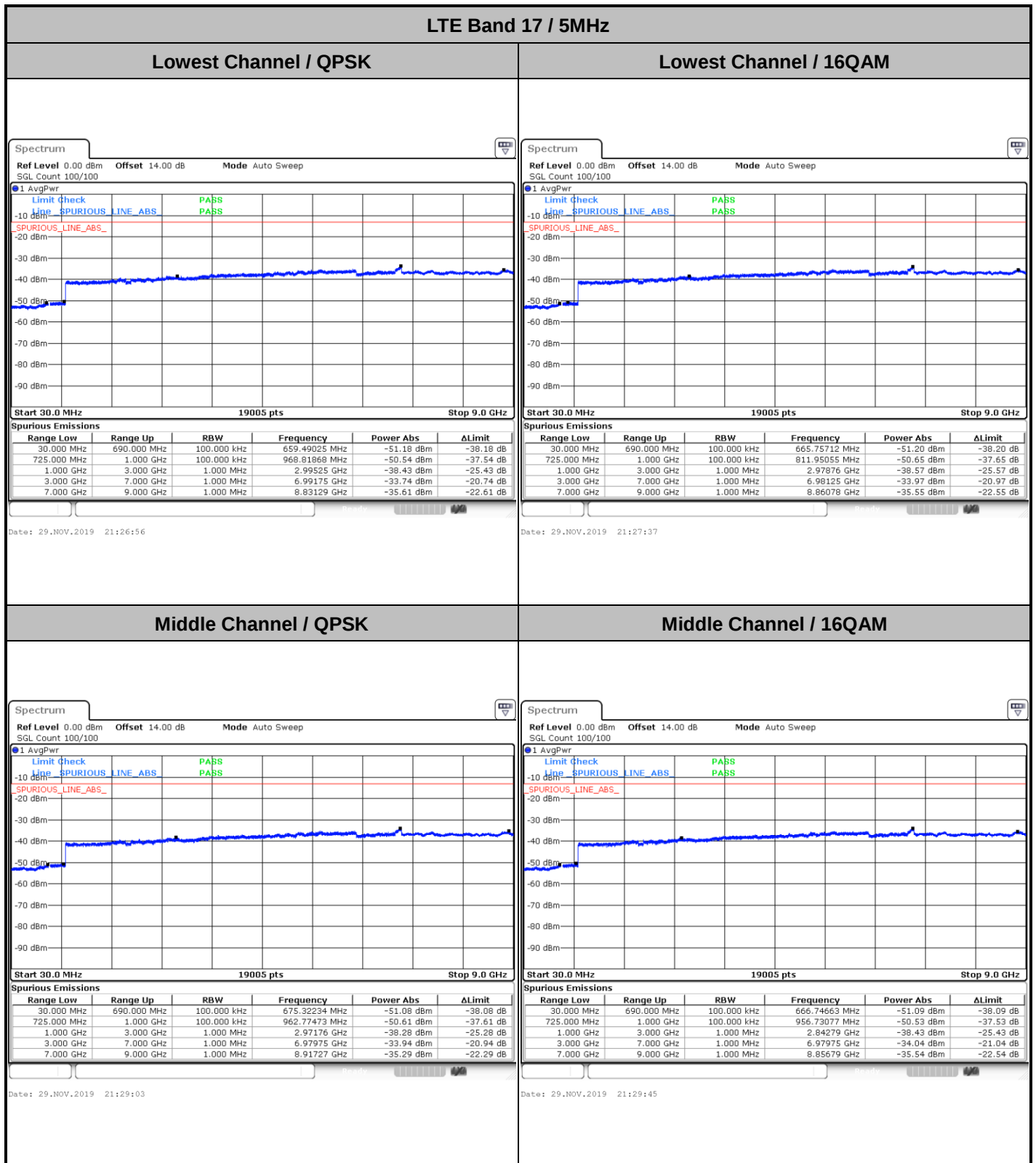


Highest Band Edge / Full RB





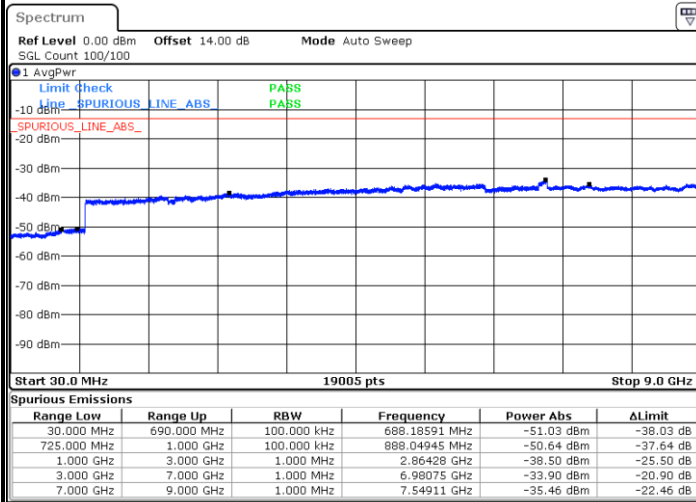
Conducted Spurious Emission





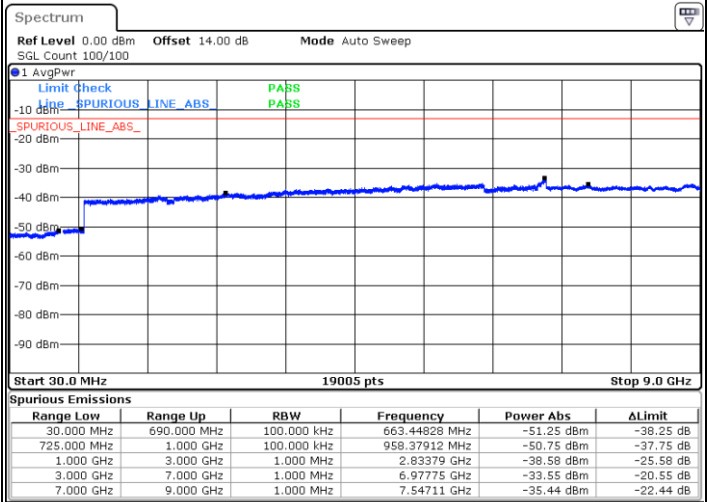
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 29.NOV.2019 21:35:11

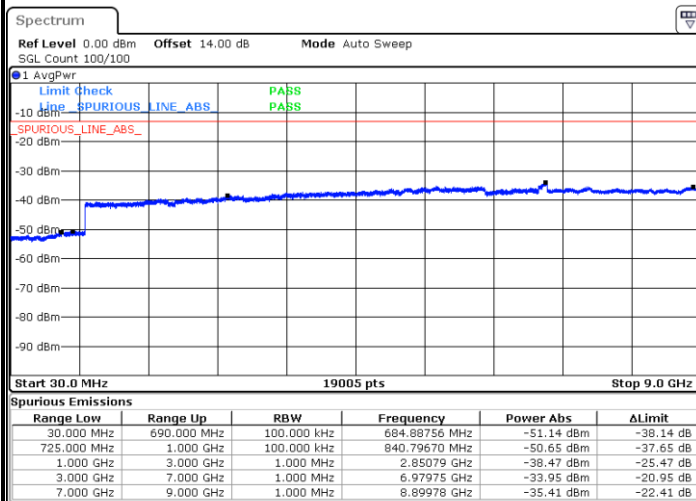
Highest Channel / 16QAM



Date: 29.NOV.2019 21:35:52

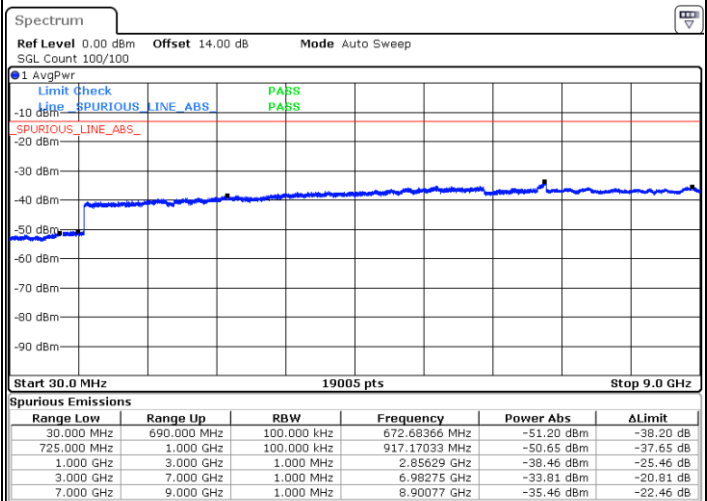
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 29.NOV.2019 21:41:18

Lowest Channel / 16QAM

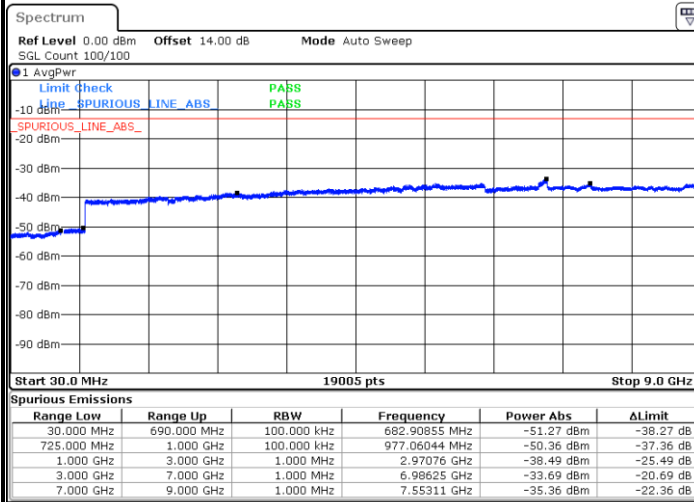


Date: 29.NOV.2019 21:41:59



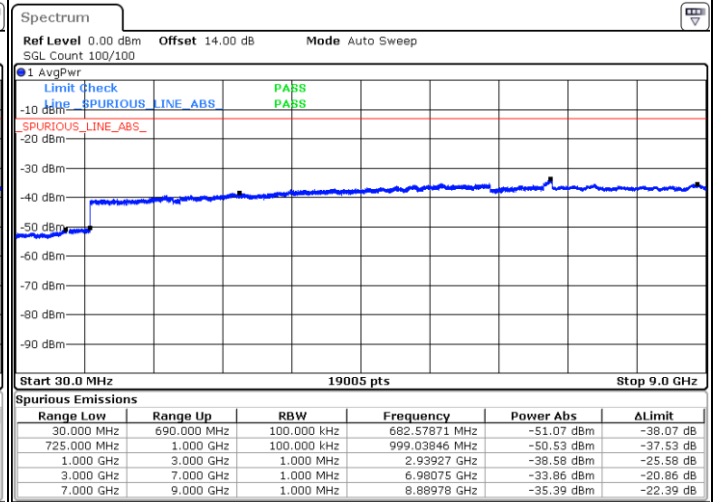
LTE Band 17 / 10MHz

Middle Channel / QPSK



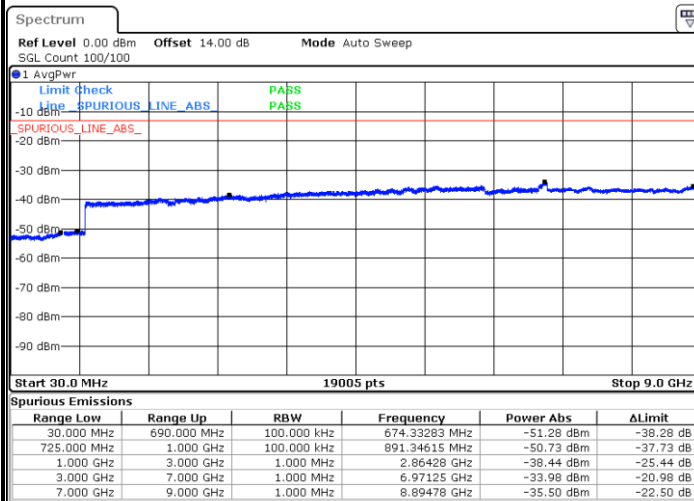
Date: 29.NOV.2019 21:43:25

Middle Channel / 16QAM



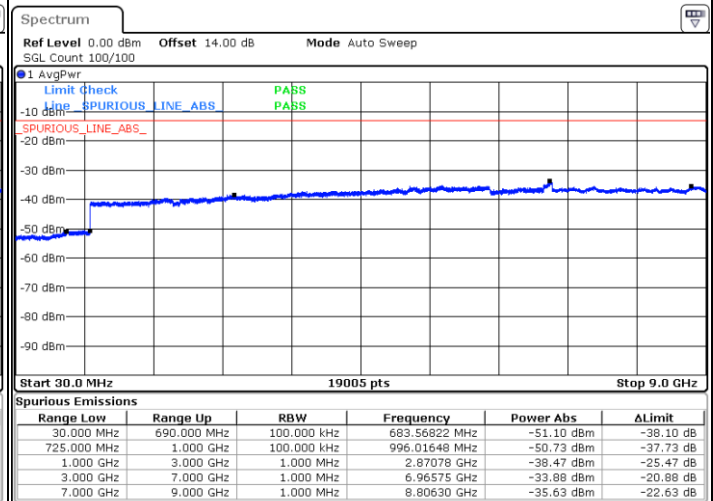
Date: 29.NOV.2019 21:44:06

Highest Channel / QPSK



Date: 29.NOV.2019 21:49:32

Highest Channel / 16QAM

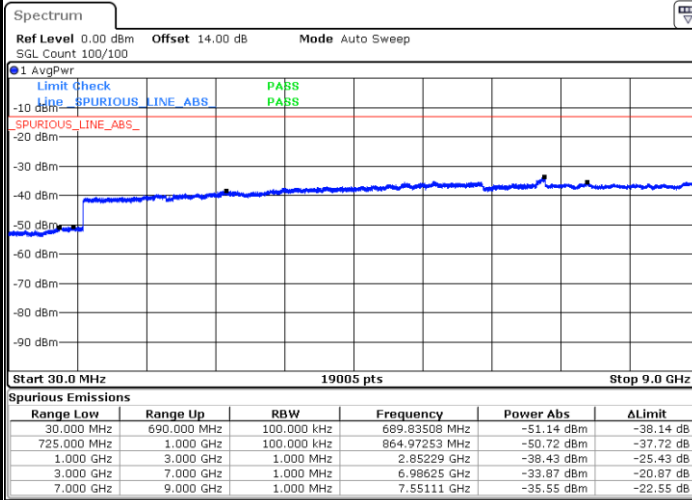


Date: 29.NOV.2019 21:50:13



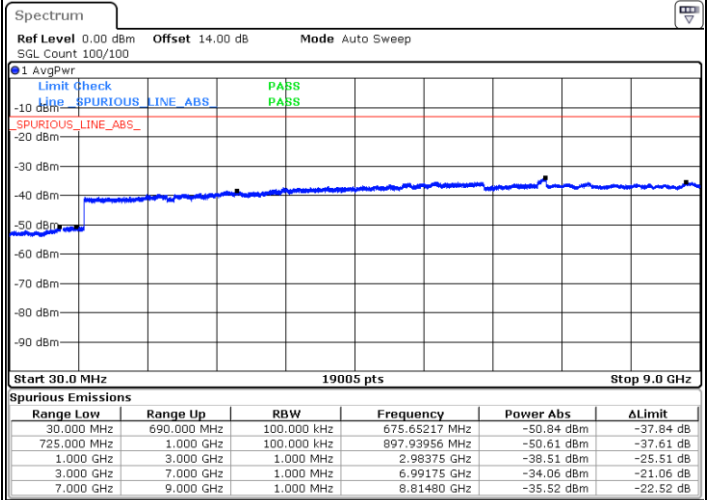
LTE Band 17 / 5MHz

Lowest Channel / 64QAM



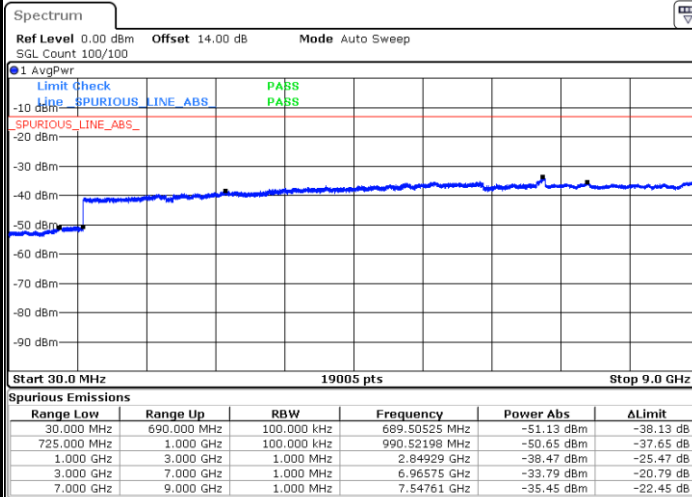
Date: 29.NOV.2019 21:53:17

Middle Channel / 64QAM



Date: 29.NOV.2019 21:54:20

Highest Channel / 64QAM

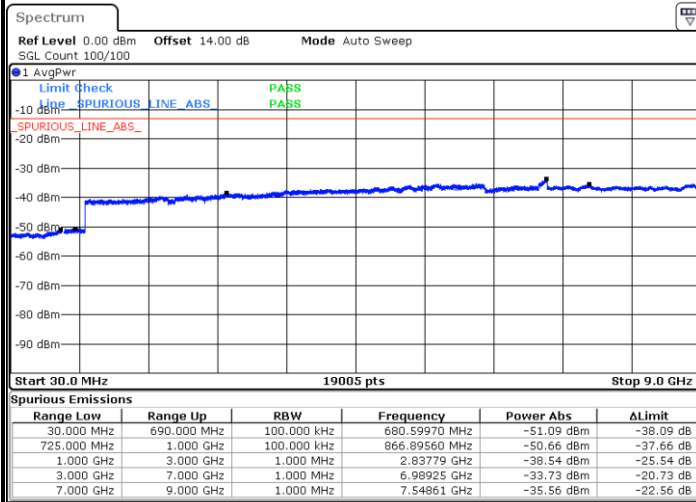


Date: 29.NOV.2019 21:57:24



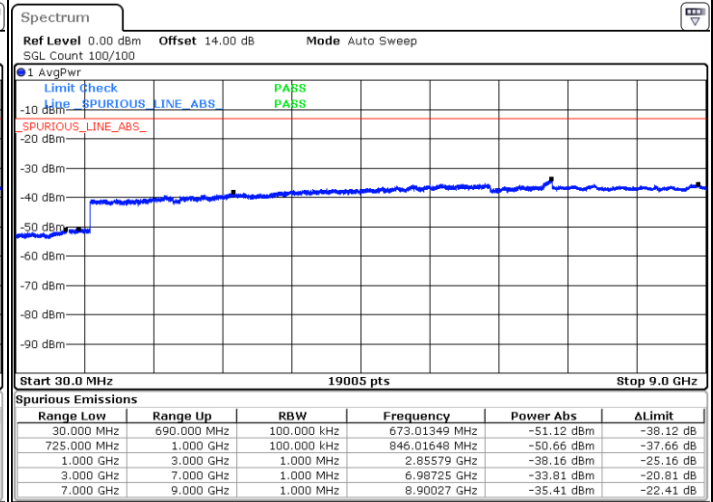
LTE Band 17 / 10MHz

Lowest Channel / 64QAM



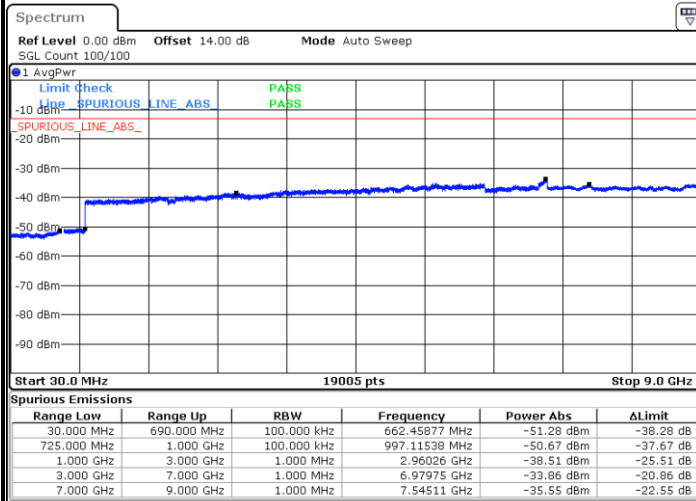
Date: 29.NOV.2019 22:00:27

Middle Channel / 64QAM



Date: 29.NOV.2019 22:01:31

Highest Channel / 64QAM



Date: 29.NOV.2019 22:04:35

**Frequency Stability**

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0039	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

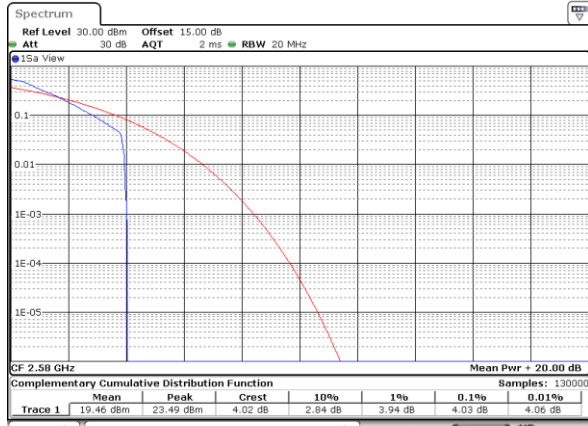
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



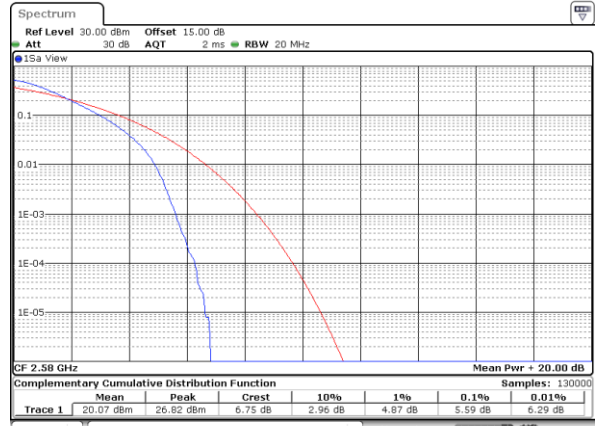
LTE Band 38

Peak-to-Average Ratio

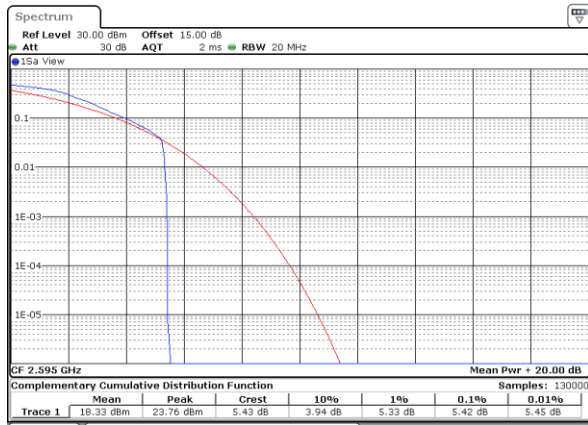
Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.03	5.59	5.36	6.14	PASS
Middle CH	5.42	6.29	6.00	6.09	
Highest CH	4.14	6.52	5.48	6.58	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	6.09	7.13	-	-	PASS
Middle CH	5.54	6.58	-	-	
Highest CH	6.02	7.30	-	-	

LTE Band 38 / 20MHz / QPSK
Lowest Channel / 1RB


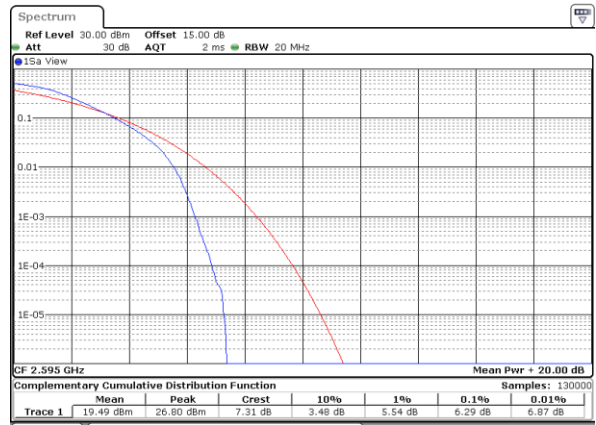
Date: 1.DEC.2019 00:45:14

Lowest Channel / Full RB


Date: 1.DEC.2019 00:45:36

Middle Channel / 1RB


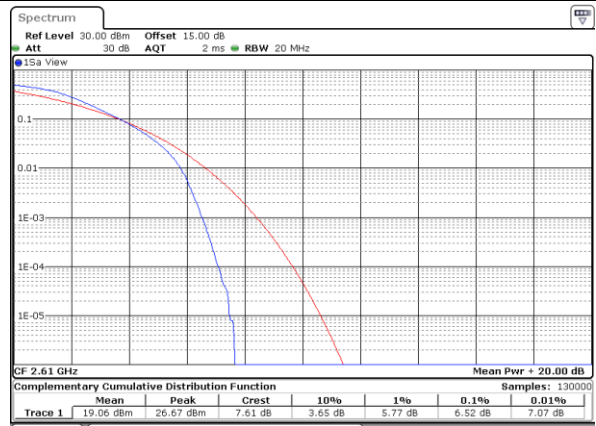
Date: 1.DEC.2019 00:45:46

Middle Channel / Full RB


Date: 1.DEC.2019 00:45:52

Highest Channel / 1RB


Date: 1.DEC.2019 00:46:20

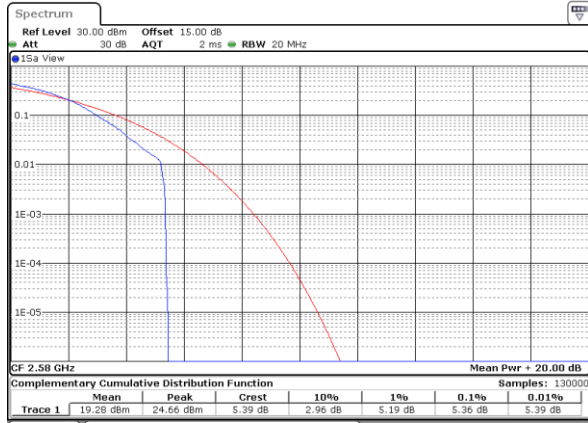
Highest Channel / Full RB


Date: 1.DEC.2019 00:46:32

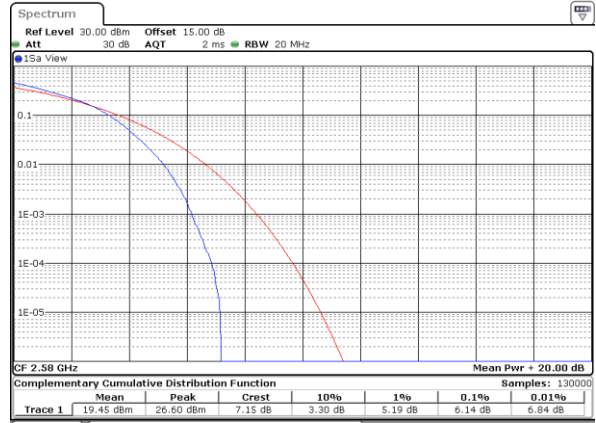


LTE Band 38 / 20MHz / 16QAM

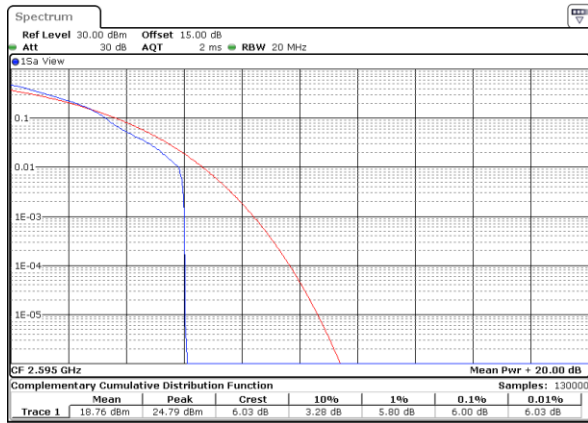
Lowest Channel / 1RB



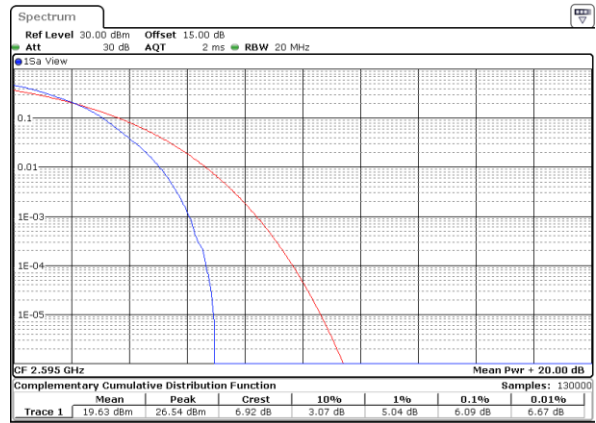
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



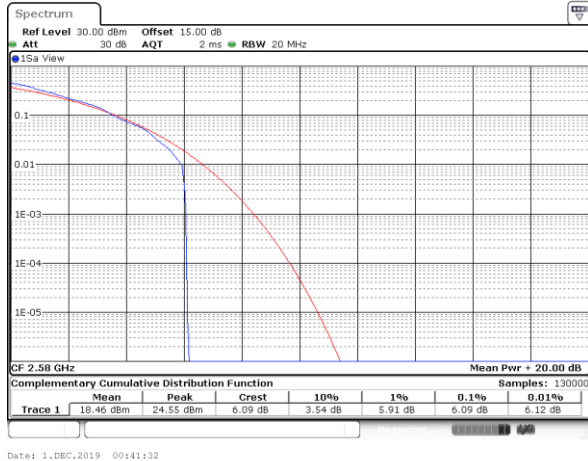
Highest Channel / Full RB



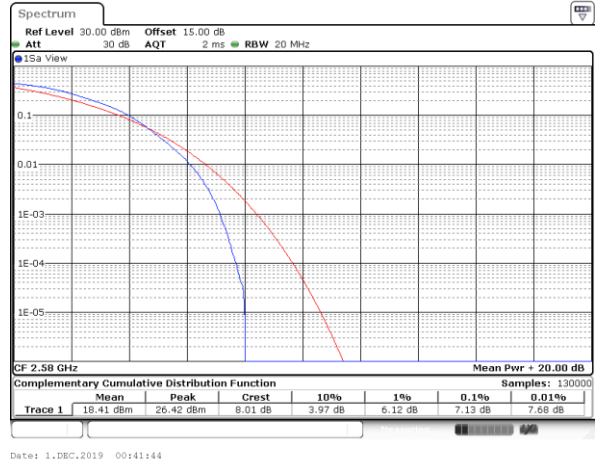


LTE Band 38 / 20MHz / 64QAM

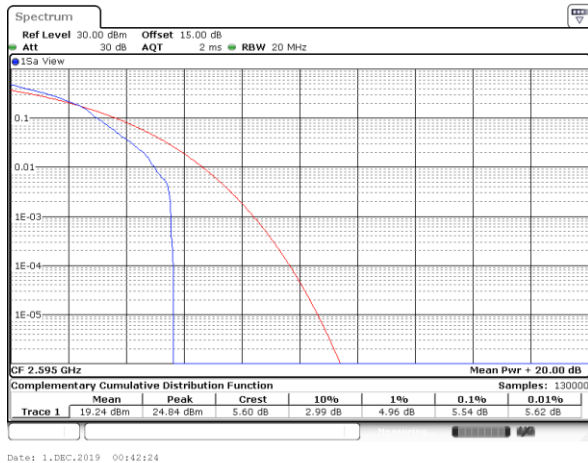
Lowest Channel / 1RB



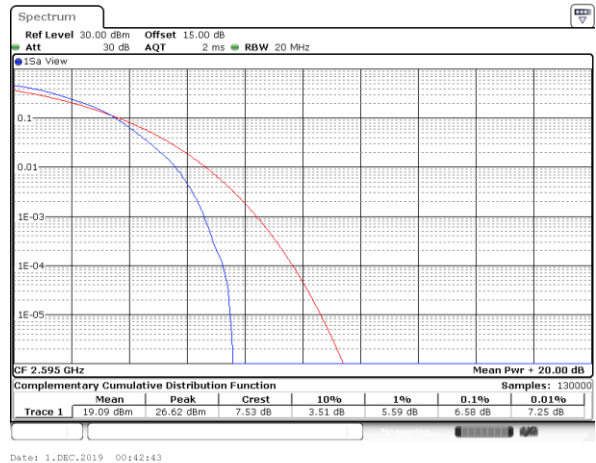
Lowest Channel / Full RB



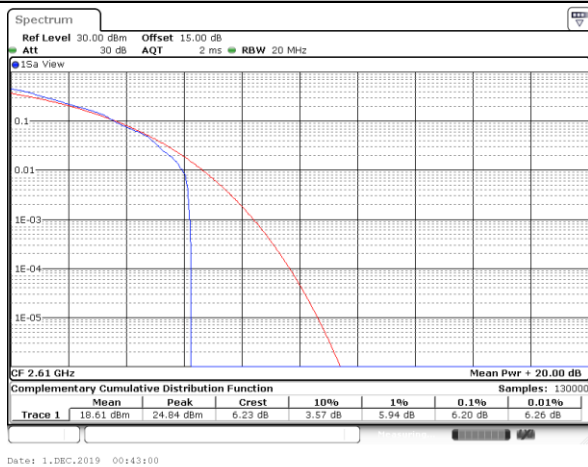
Middle Channel / 1RB



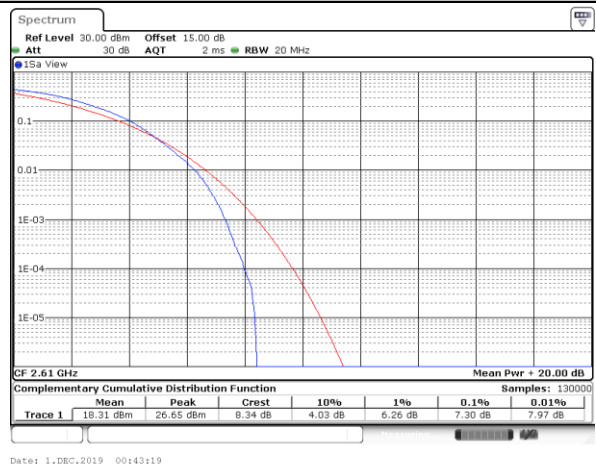
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



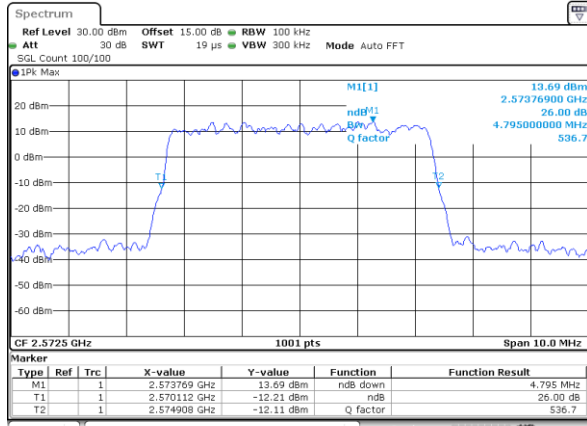
**26dB Bandwidth**

Mode	LTE Band 38 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.795	4.875	9.77	9.69	14.356	14.116	18.821	18.981
Middle CH	4.945	4.865	9.71	9.61	14.296	14.266	18.901	18.621
Highest CH	4.945	4.845	9.69	9.63	14.236	14.236	18.661	18.701
Mode	LTE Band 38 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.785		9.85		14.266		18.701	
Middle CH	4.705		9.77		14.056		18.781	
Highest CH	4.805		9.65		14.356		18.621	



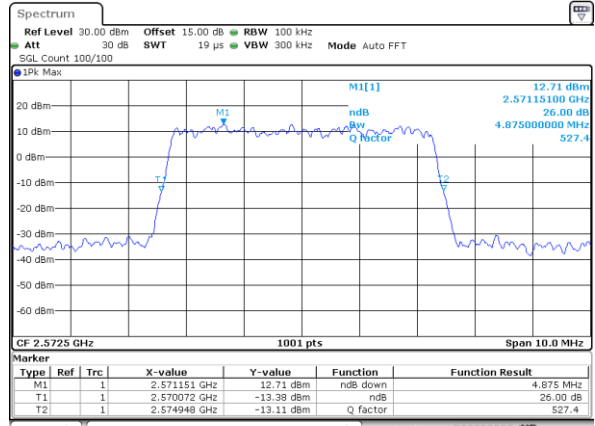
LTE Band 38

Lowest Channel / 5MHz / QPSK



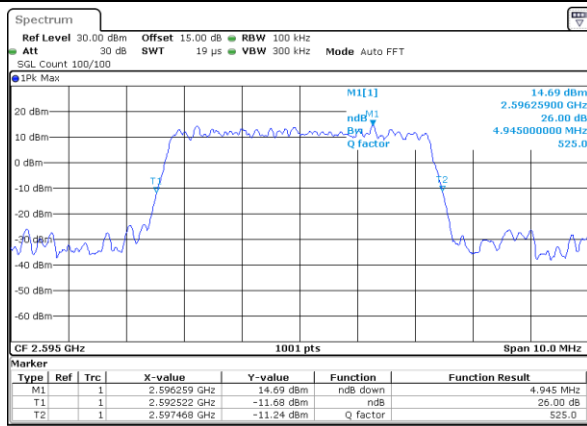
Date: 1.DEC.2019 00:27:17

Lowest Channel / 5MHz / 16QAM



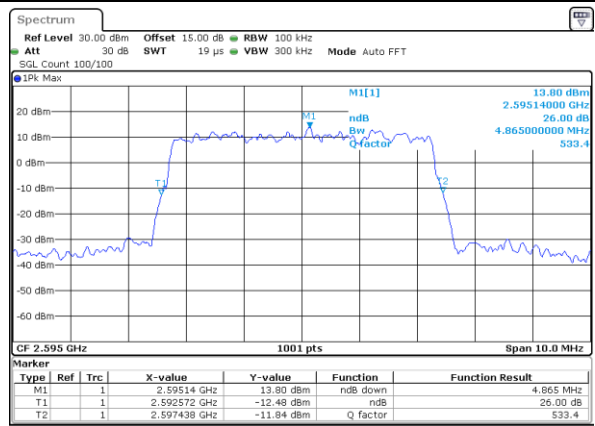
Date: 1.DEC.2019 00:27:28

Middle Channel / 5MHz / QPSK



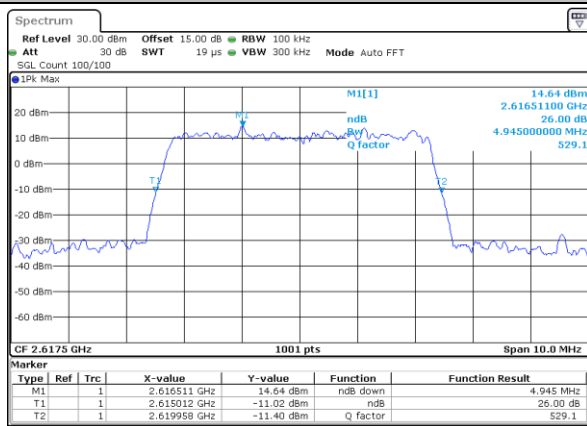
Date: 1.DEC.2019 00:28:02

Middle Channel / 5MHz / 16QAM



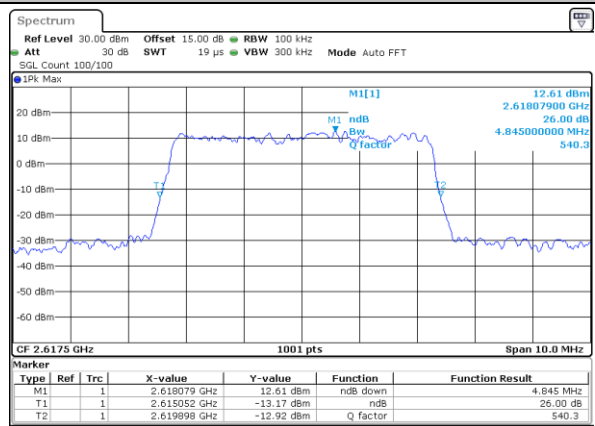
Date: 1.DEC.2019 00:28:13

Highest Channel / 5MHz / QPSK



Date: 1.DEC.2019 00:28:47

Highest Channel / 5MHz / 16QAM

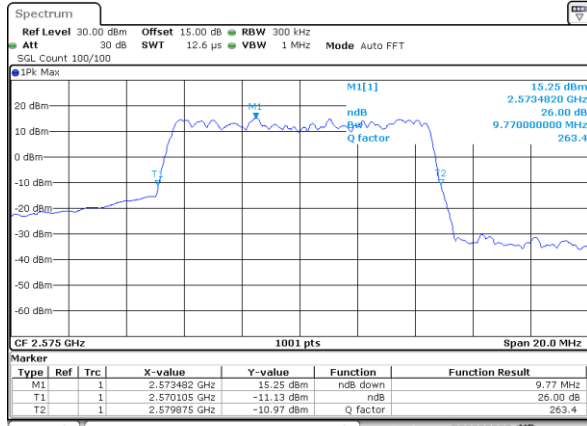


Date: 1.DEC.2019 00:28:58



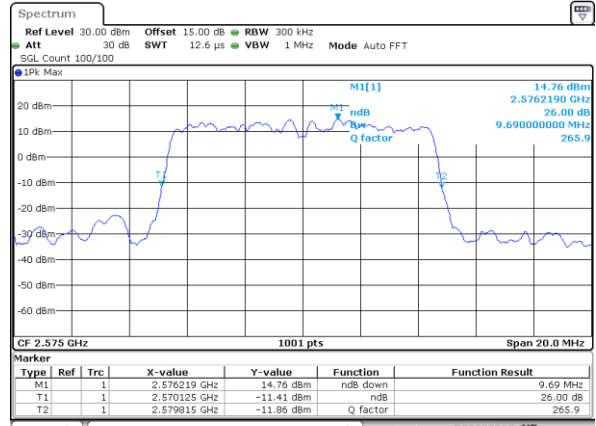
LTE Band 38

Lowest Channel / 10MHz / QPSK



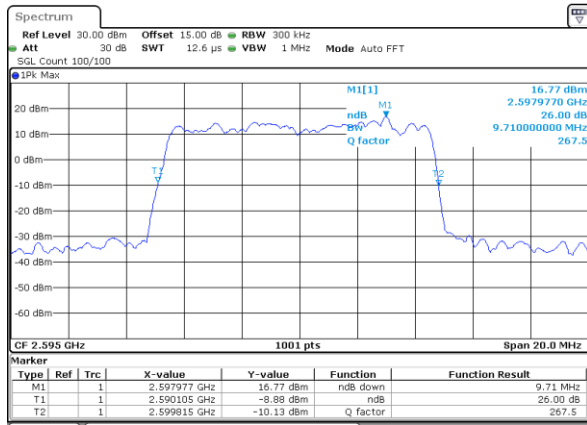
Date: 1.DEC.2019 00:29:31

Lowest Channel / 10MHz / 16QAM



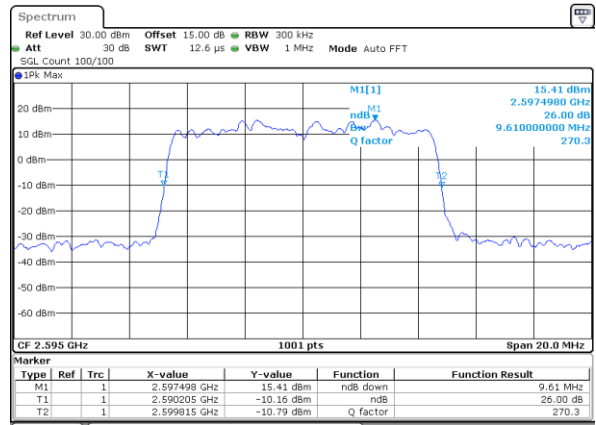
Date: 1.DEC.2019 00:29:42

Middle Channel / 10MHz / QPSK



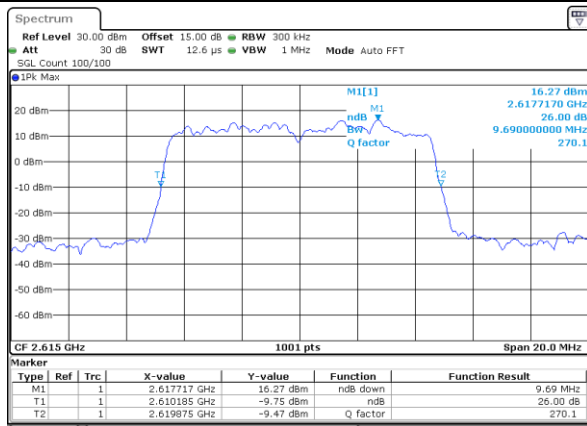
Date: 1.DEC.2019 00:30:16

Middle Channel / 10MHz / 16QAM



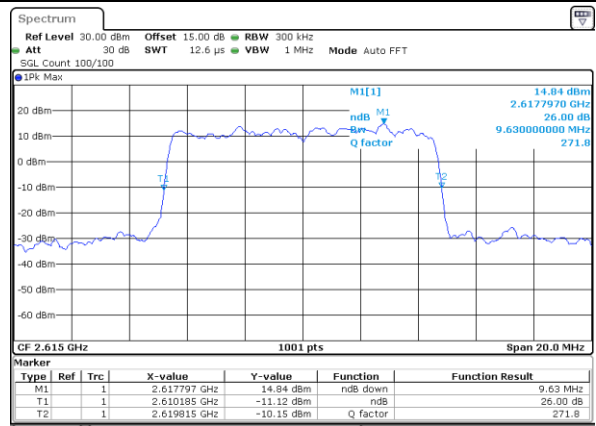
Date: 1.DEC.2019 00:30:27

Highest Channel / 10MHz / QPSK



Date: 1.DEC.2019 00:31:01

Highest Channel / 10MHz / 16QAM

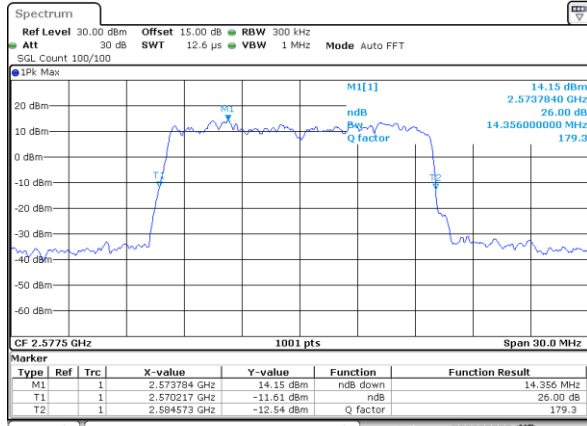


Date: 1.DEC.2019 00:31:12



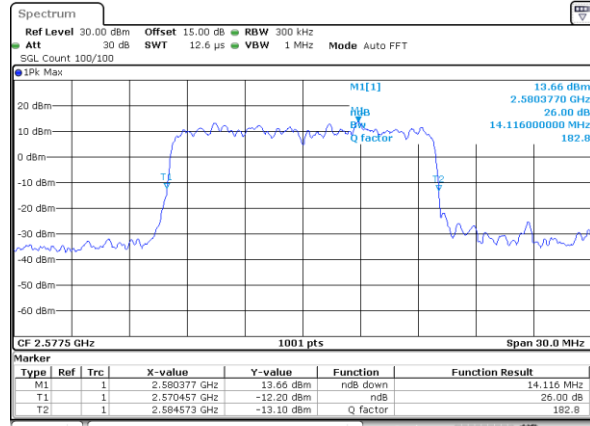
LTE Band 38

Lowest Channel / 15MHz / QPSK



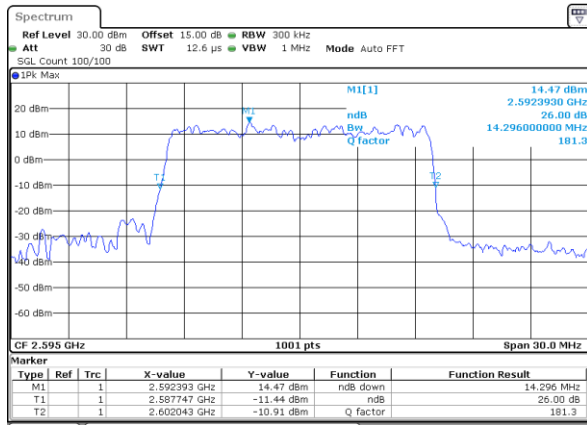
Date: 1.DEC.2019 00:31:45

Lowest Channel / 15MHz / 16QAM



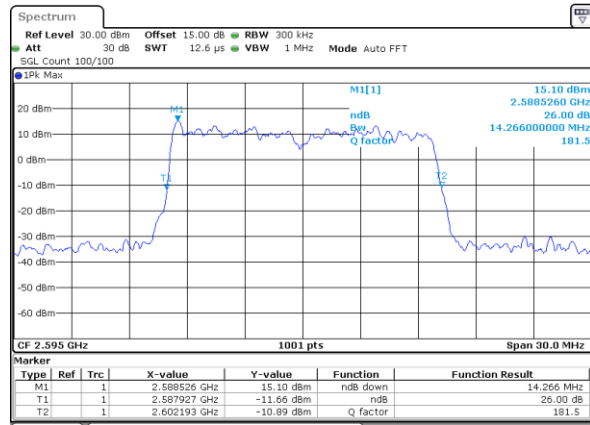
Date: 1.DEC.2019 00:31:57

Middle Channel / 15MHz / QPSK



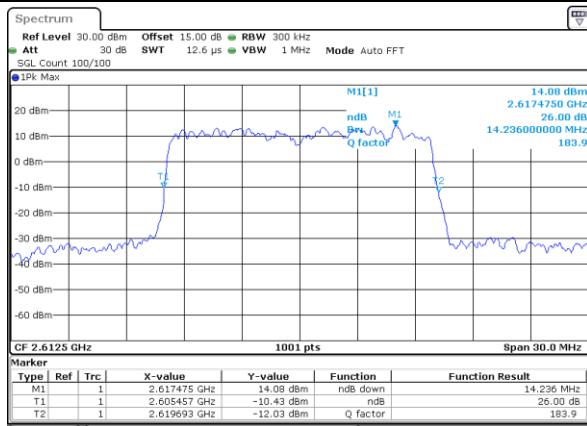
Date: 1.DEC.2019 00:32:30

Middle Channel / 15MHz / 16QAM



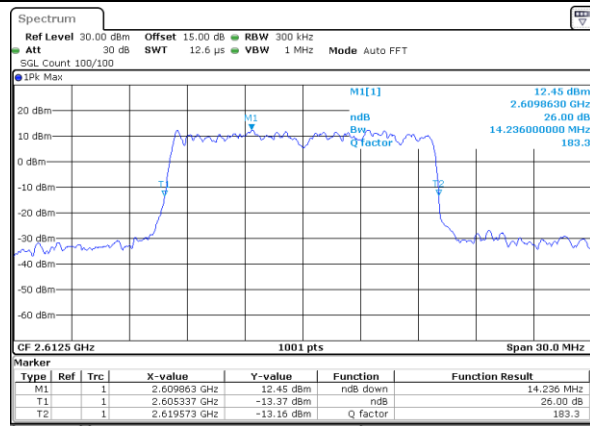
Date: 1.DEC.2019 00:32:41

Highest Channel / 15MHz / QPSK



Date: 1.DEC.2019 00:33:15

Highest Channel / 15MHz / 16QAM

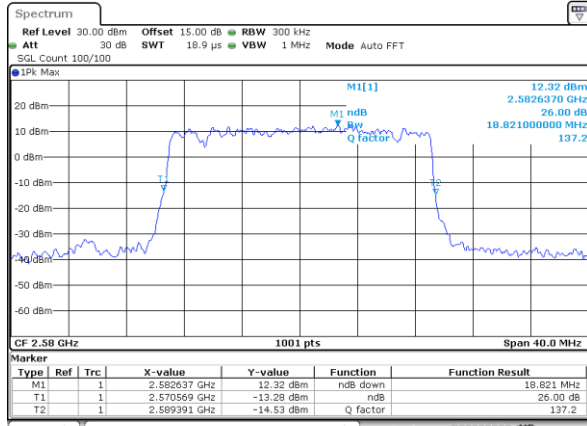


Date: 1.DEC.2019 00:33:26



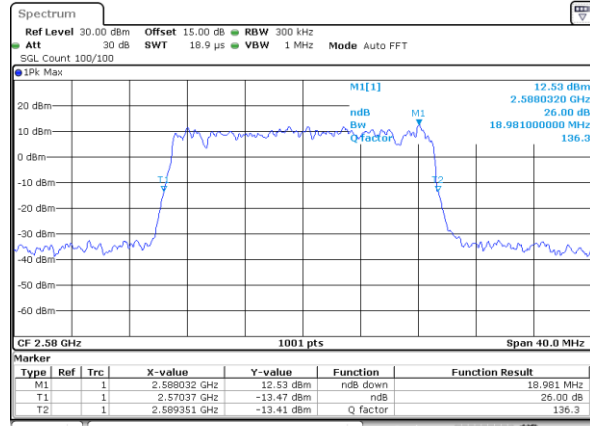
LTE Band 38

Lowest Channel / 20MHz / QPSK



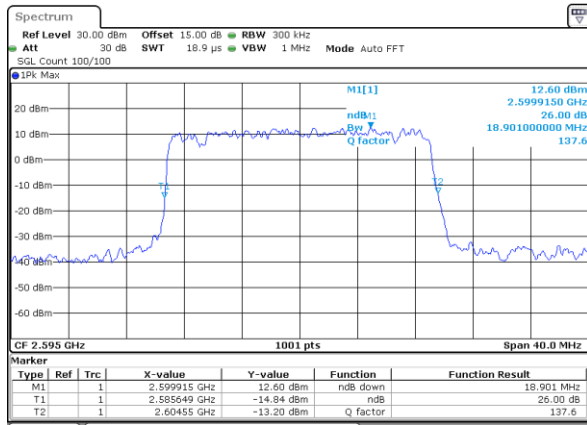
Date: 1.DEC.2019 00:34:00

Lowest Channel / 20MHz / 16QAM



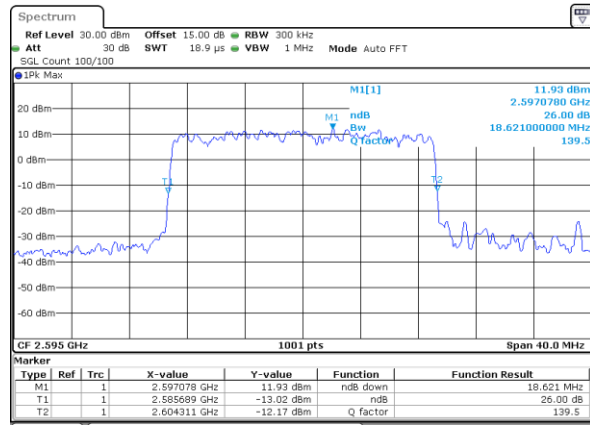
Date: 1.DEC.2019 00:34:11

Middle Channel / 20MHz / QPSK



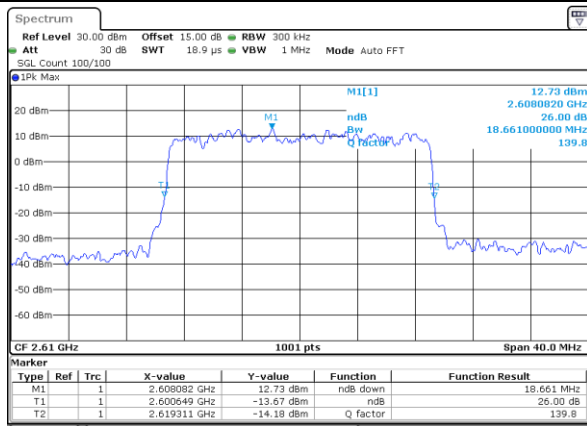
Date: 1.DEC.2019 00:34:45

Middle Channel / 20MHz / 16QAM



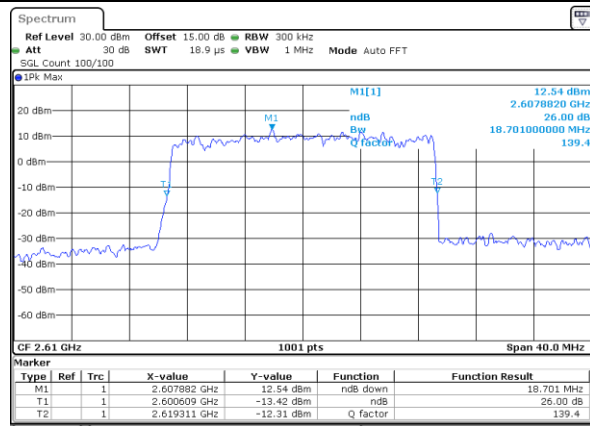
Date: 1.DEC.2019 00:34:56

Highest Channel / 20MHz / QPSK



Date: 1.DEC.2019 00:35:29

Highest Channel / 20MHz / 16QAM

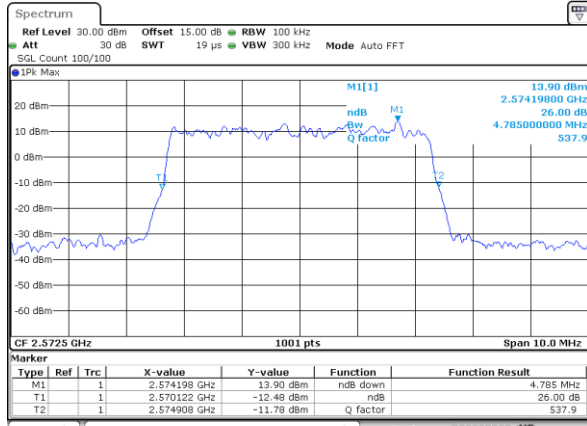


Date: 1.DEC.2019 00:35:40



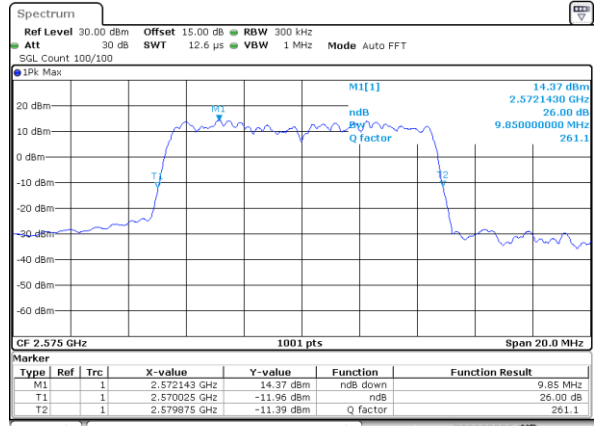
LTE Band 38

Lowest Channel / 5MHz / 64QAM



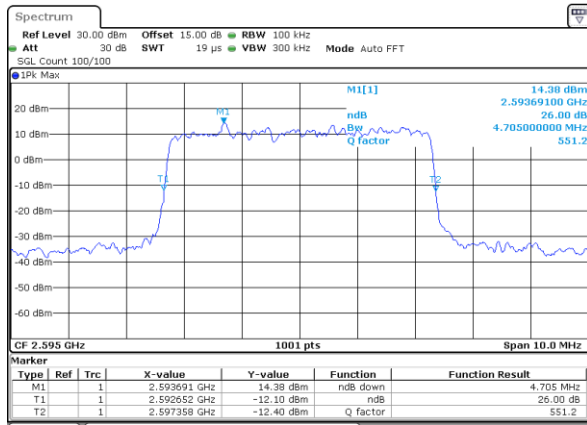
Date: 1.DEC.2019 00:36:03

Lowest Channel / 10MHz / 64QAM



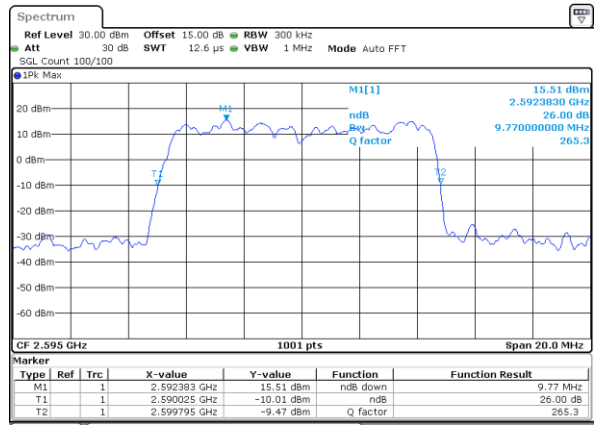
Date: 1.DEC.2019 00:37:10

Middle Channel / 5MHz / 64QAM



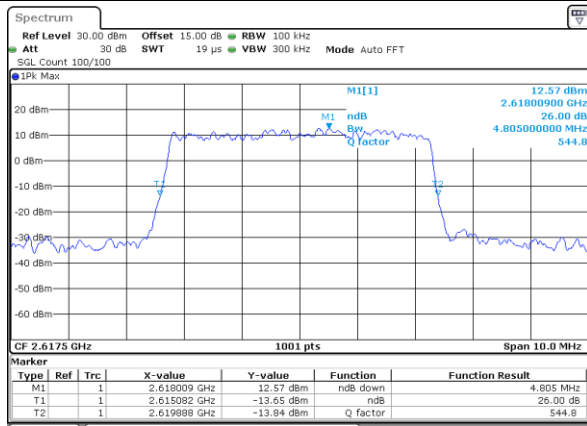
Date: 1.DEC.2019 00:36:25

Middle Channel / 10MHz / 64QAM



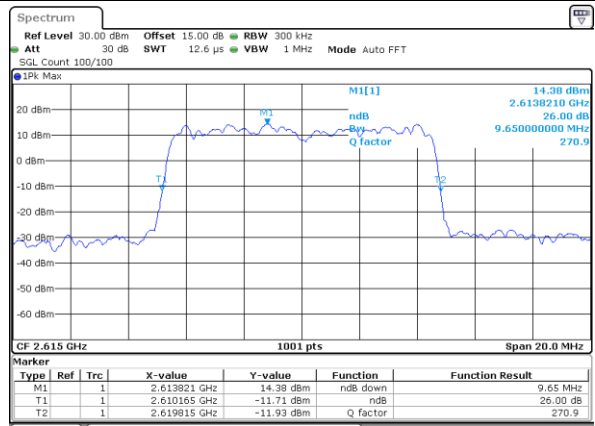
Date: 1.DEC.2019 00:37:32

Highest Channel / 5MHz / 64QAM



Date: 1.DEC.2019 00:36:47

Highest Channel / 10MHz / 64QAM

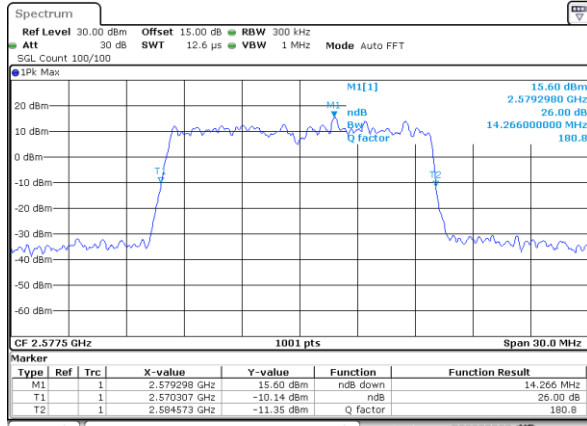


Date: 1.DEC.2019 00:37:54



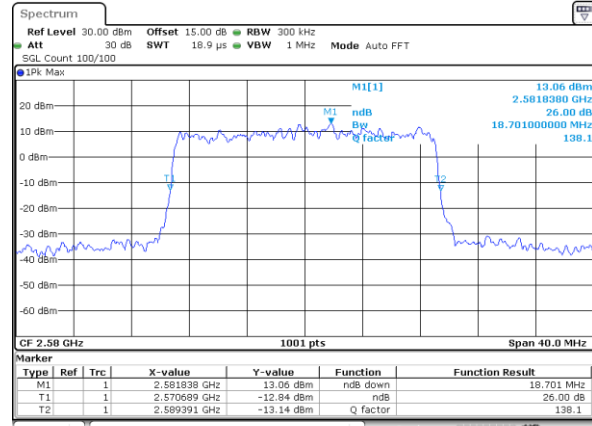
LTE Band 38

Lowest Channel / 15MHz / 64QAM



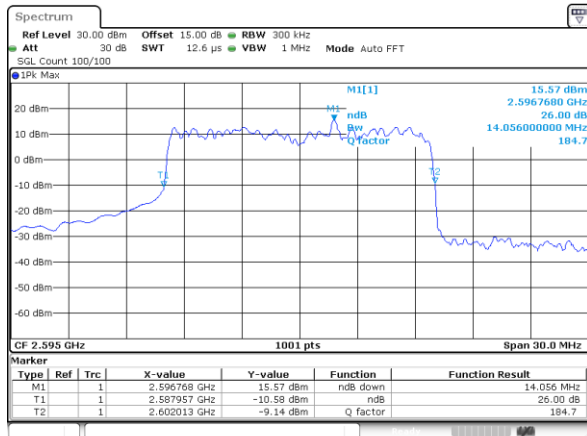
Date: 1.DEC.2019 00:38:17

Lowest Channel / 20MHz / 64QAM



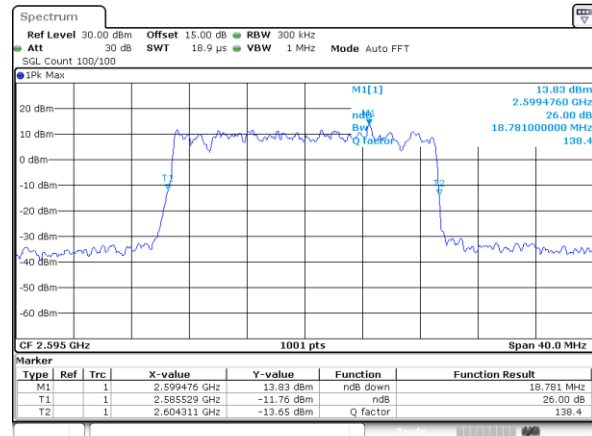
Date: 1.DEC.2019 00:39:24

Middle Channel / 15MHz / 64QAM



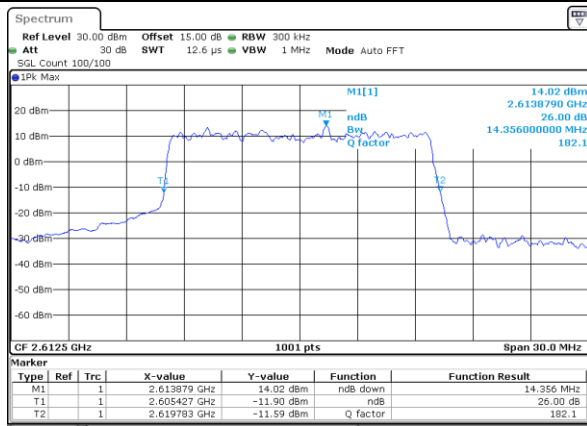
Date: 1.DEC.2019 00:38:39

Middle Channel / 20MHz / 64QAM



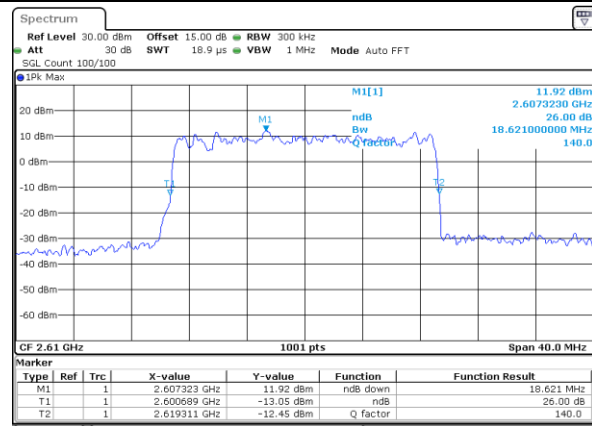
Date: 1.DEC.2019 00:39:47

Highest Channel / 15MHz / 64QAM



Date: 1.DEC.2019 00:39:02

Highest Channel / 20MHz / 64QAM



Date: 1.DEC.2019 00:40:09

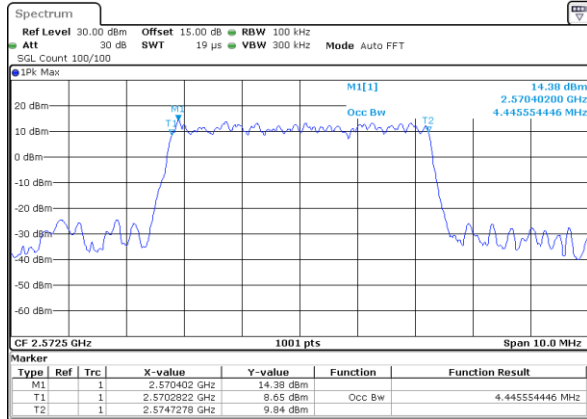
**Occupied Bandwidth**

Mode	LTE Band 38 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.46	4.49	9.09	9.01	13.43	13.46	17.82	17.90
Middle CH	4.49	4.51	9.03	8.97	13.46	13.52	17.82	17.90
Highest CH	4.51	4.50	9.03	9.05	13.46	13.37	17.86	17.90
Mode	LTE Band 38 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.46		9.07		13.40		17.86	
Middle CH	4.50		9.09		13.46		17.82	
Highest CH	4.49		8.97		13.49		17.86	



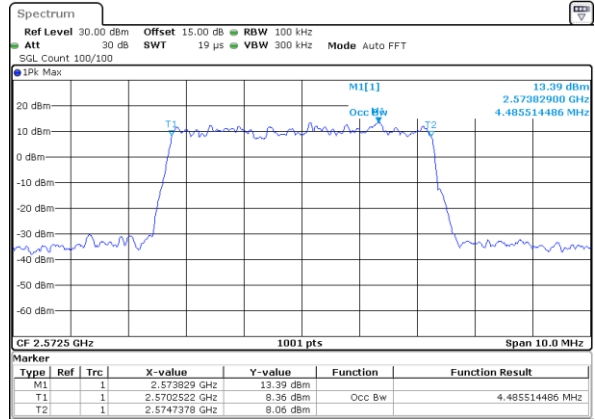
LTE Band 38

Lowest Channel / 5MHz / QPSK



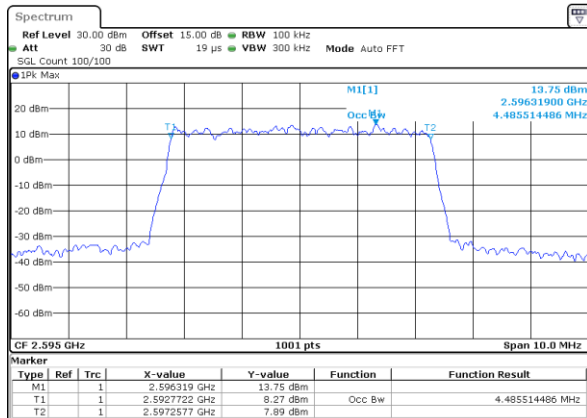
Date: 1.DEC.2019 00:26:54

Lowest Channel / 5MHz / 16QAM



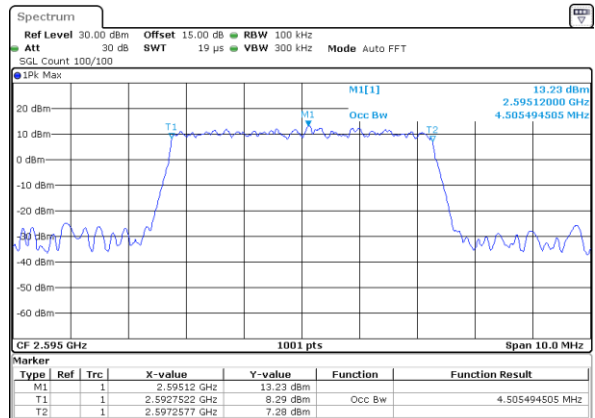
Date: 1.DEC.2019 00:27:06

Middle Channel / 5MHz / QPSK



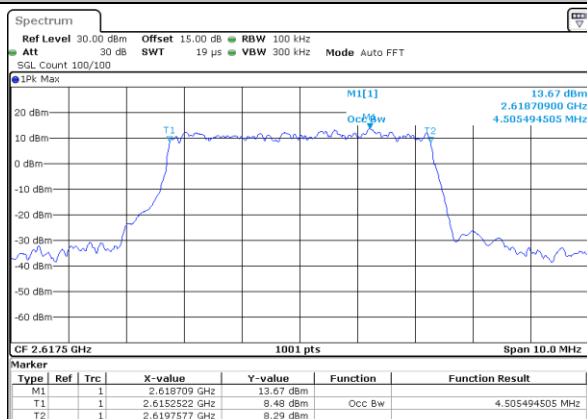
Date: 1.DEC.2019 00:27:39

Middle Channel / 5MHz / 16QAM



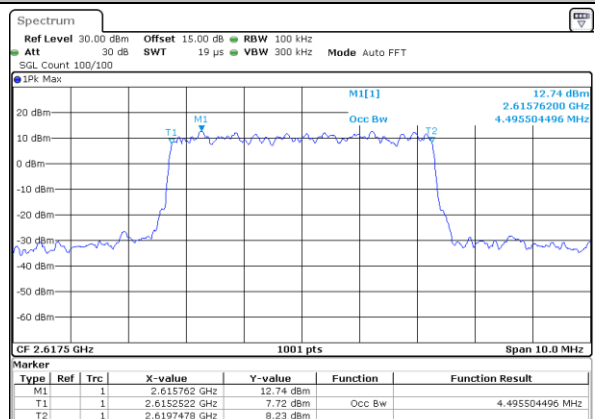
Date: 1.DEC.2019 00:27:51

Highest Channel / 5MHz / QPSK



Date: 1.DEC.2019 00:28:24

Highest Channel / 5MHz / 16QAM



Date: 1.DEC.2019 00:28:35