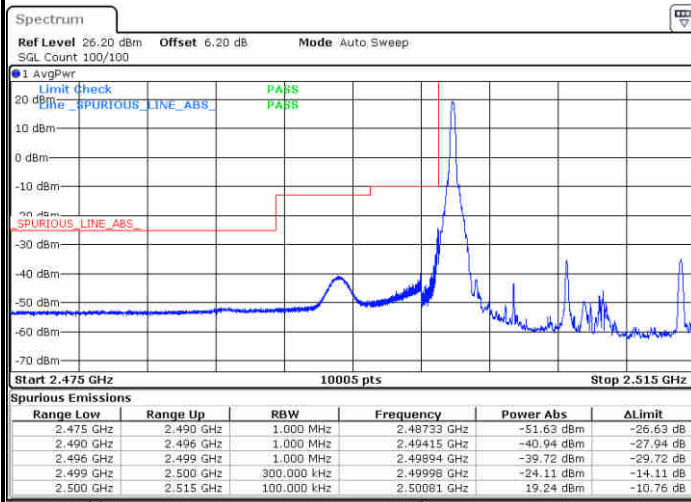


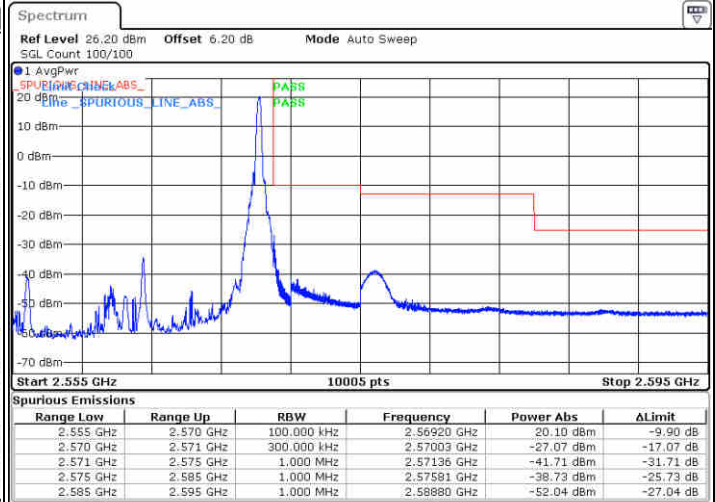


LTE Band 7 / 15MHz / 16QAM

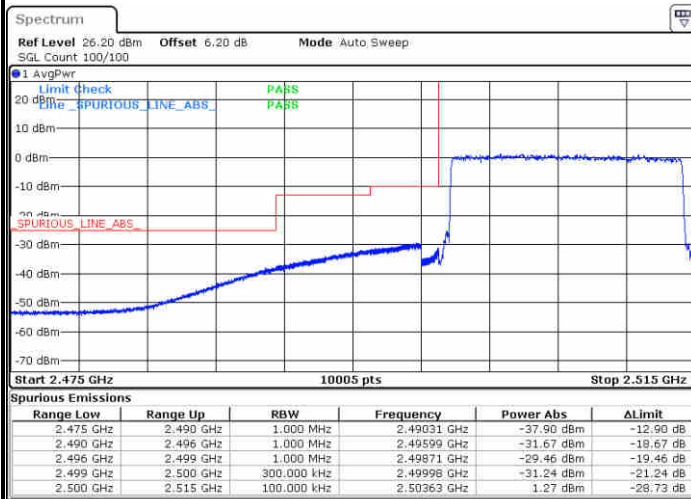
Lowest Band Edge / 1 RB



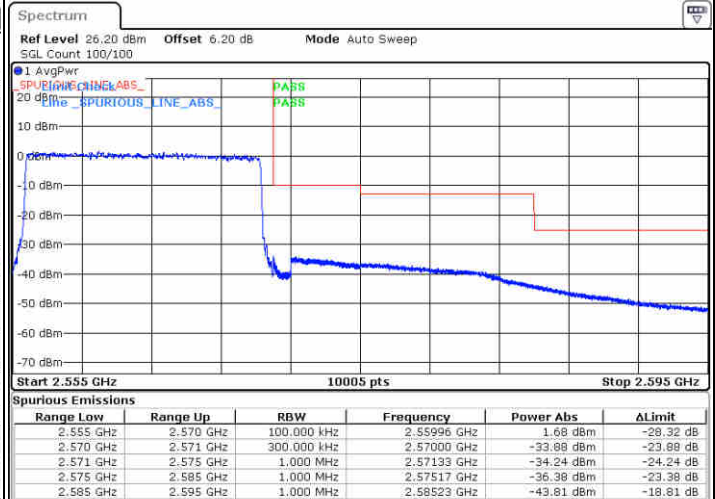
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



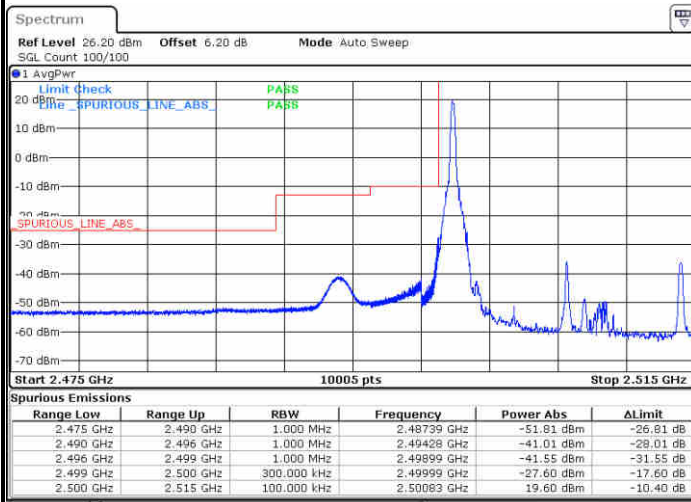
Highest Band Edge / Full RB



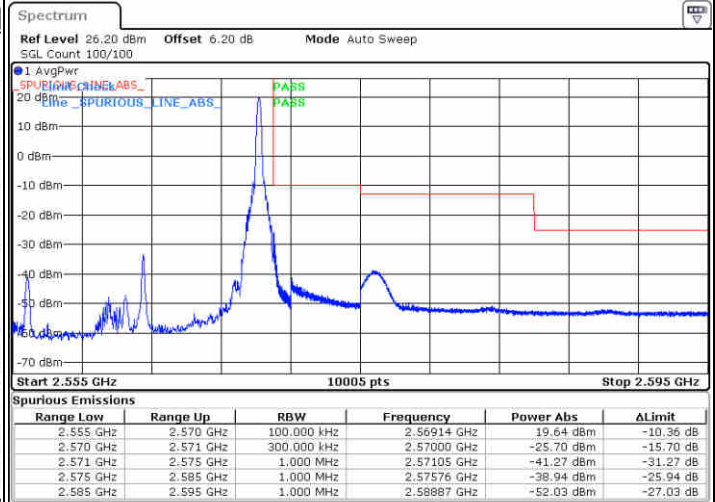


LTE Band 7 / 15MHz / 64QAM

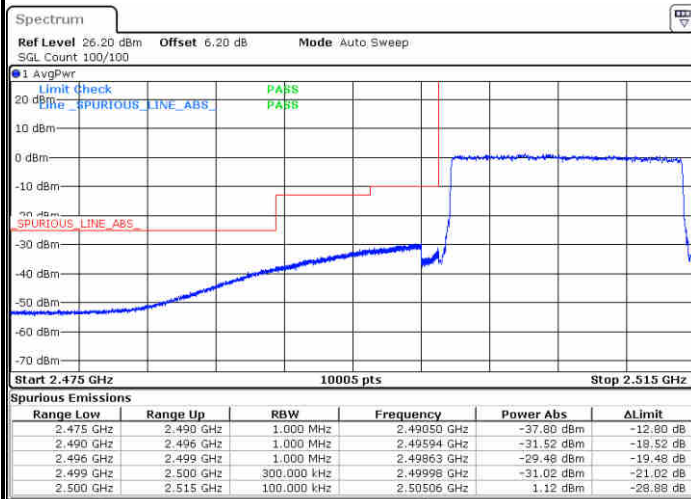
Lowest Band Edge / 1 RB



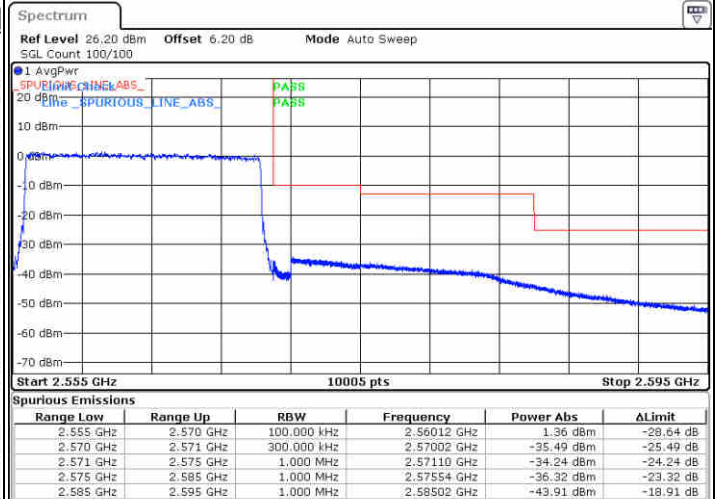
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



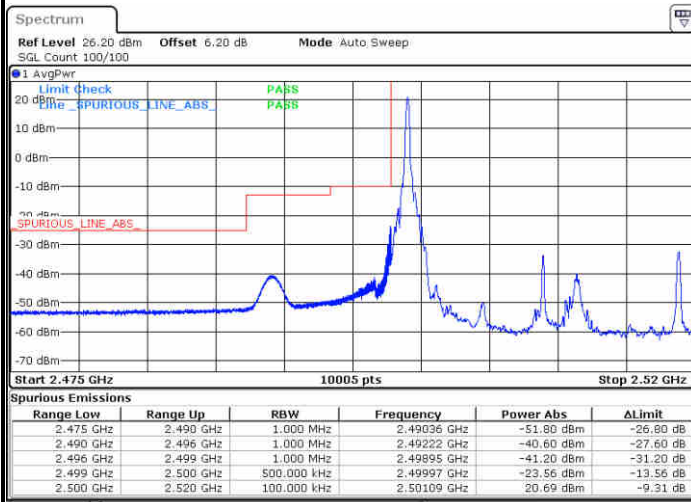
Highest Band Edge / Full RB



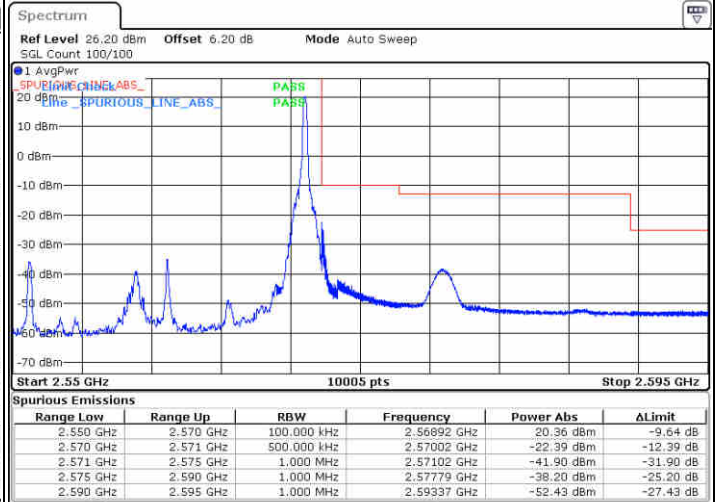


LTE Band 7 / 20MHz / QPSK

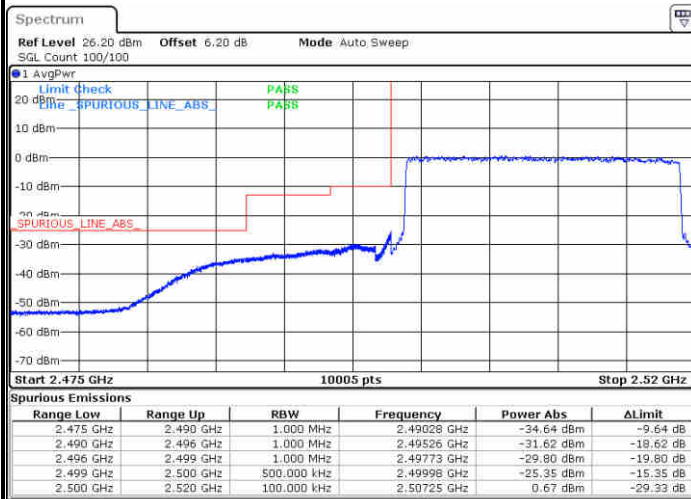
Lowest Band Edge / 1 RB



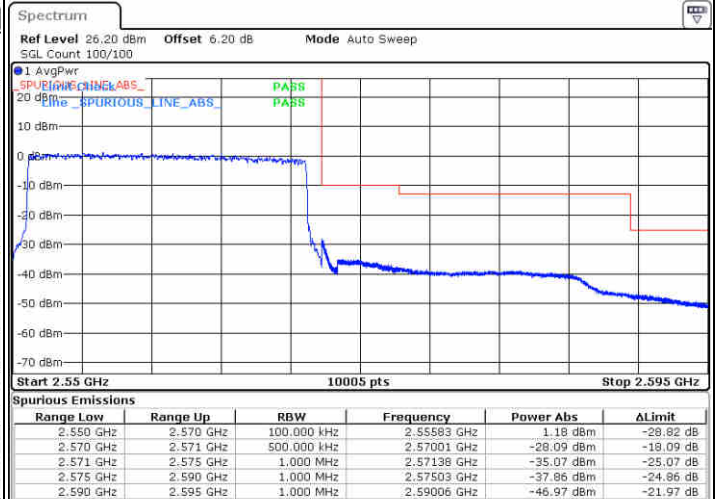
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



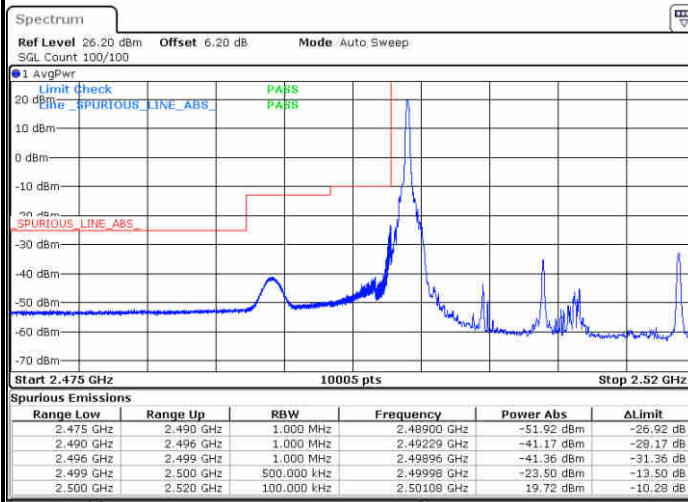
Highest Band Edge / Full RB



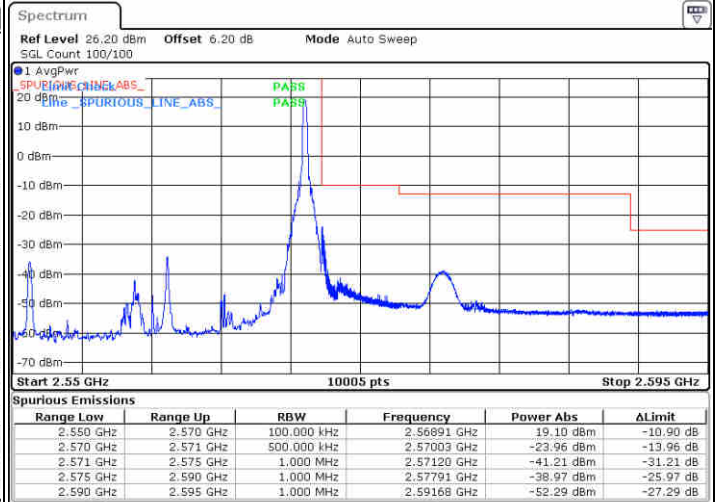


LTE Band 7 / 20MHz / 16QAM

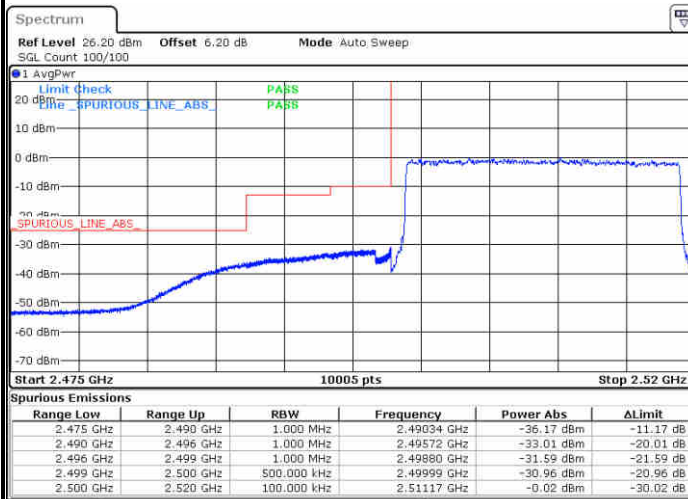
Lowest Band Edge / 1 RB



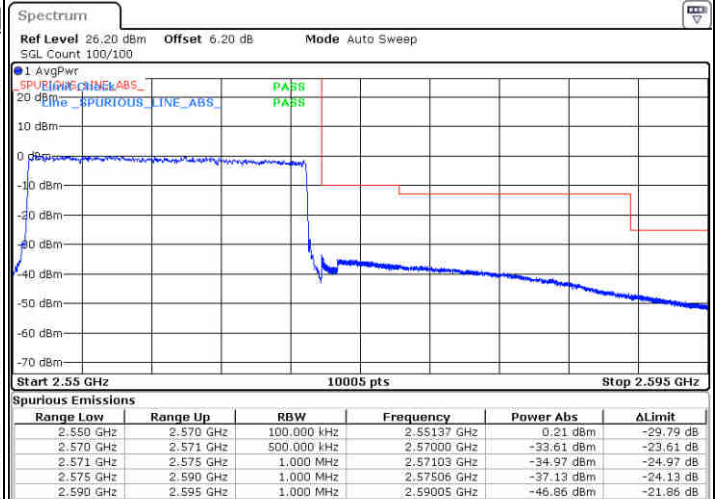
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



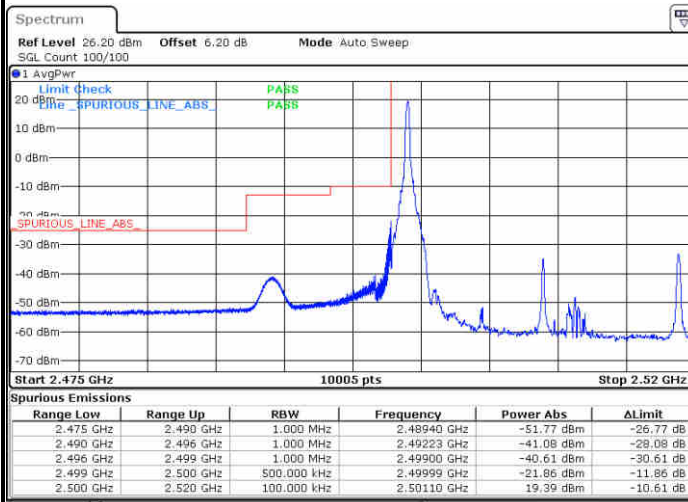
Highest Band Edge / Full RB



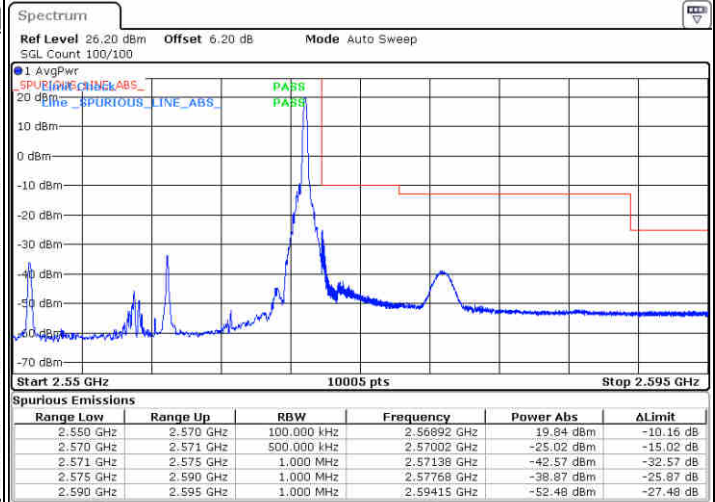


LTE Band 7 / 20MHz / 64QAM

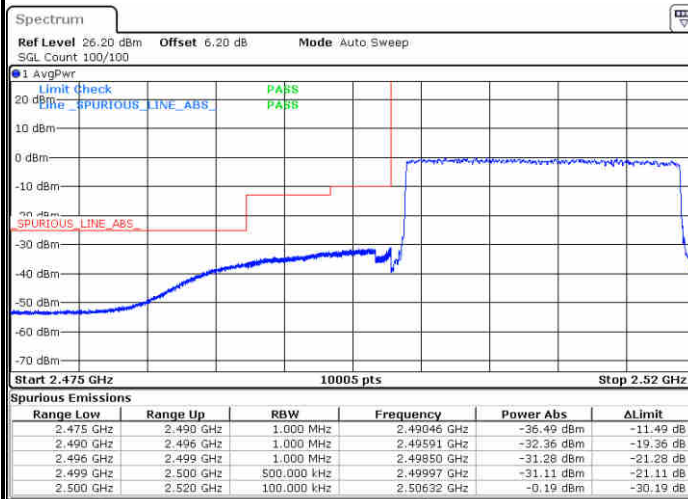
Lowest Band Edge / 1 RB



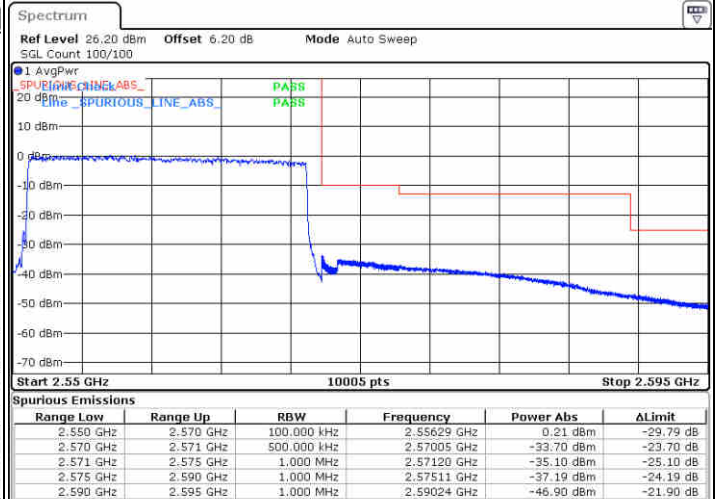
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

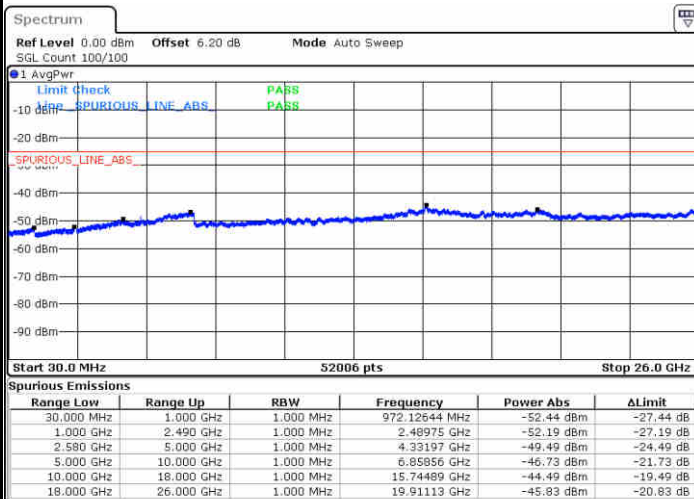




Conducted Spurious Emission

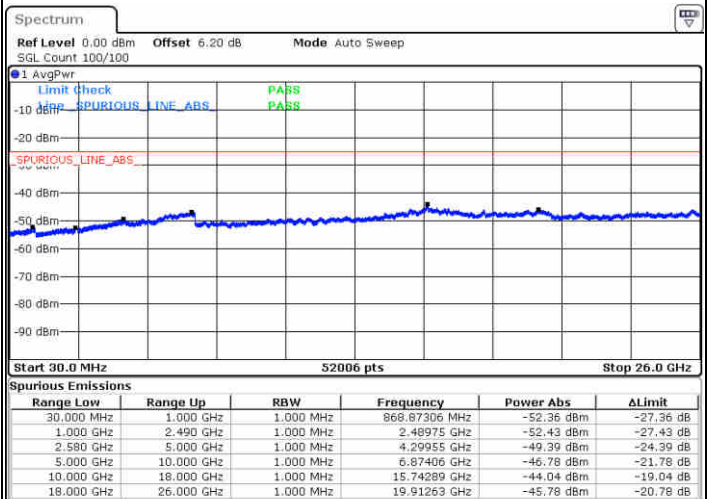
LTE Band 7 / 5MHz

Lowest Channel / QPSK



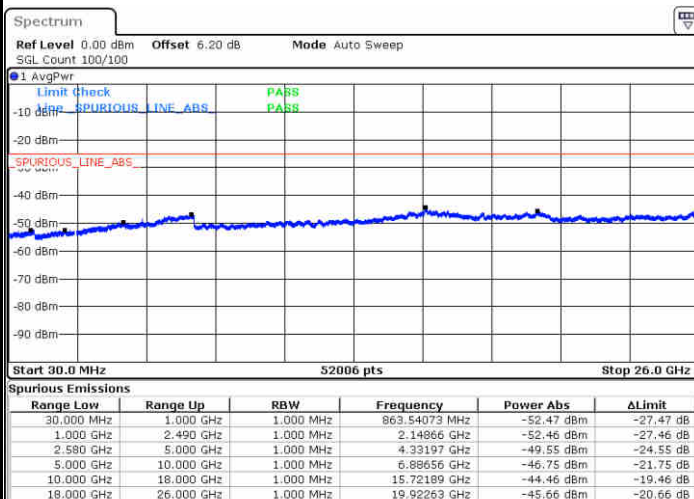
Date: 20.OCT.2019 01:50:45

Lowest Channel / 16QAM



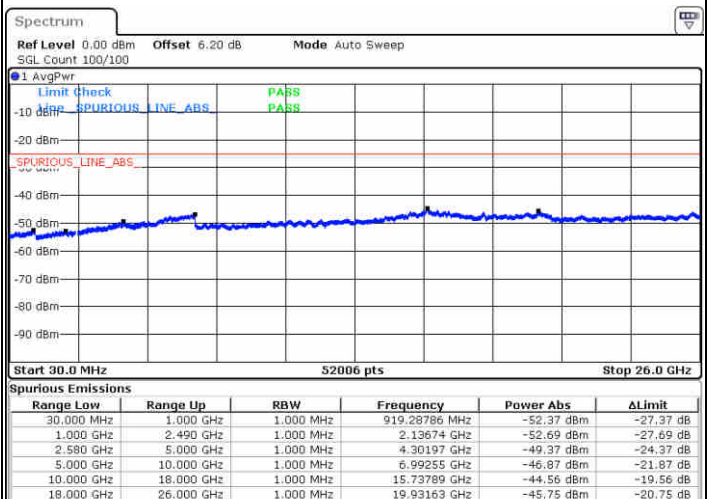
Date: 20.OCT.2019 01:51:39

Middle Channel / QPSK



Date: 20.OCT.2019 01:37:53

Middle Channel / 16QAM

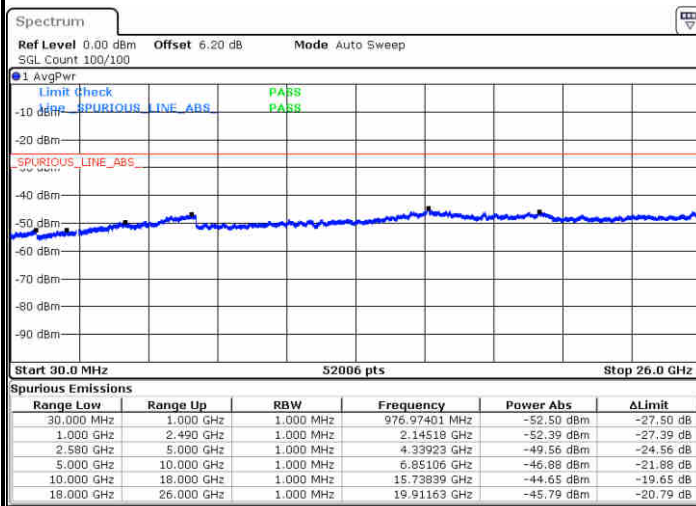


Date: 20.OCT.2019 01:52:33



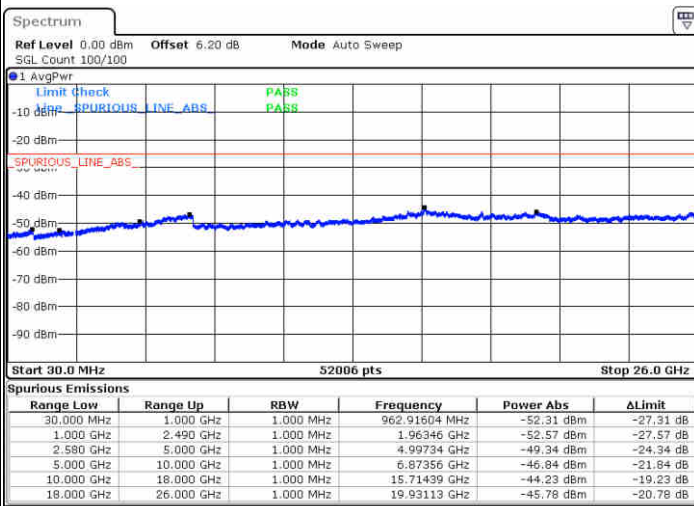
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 20 OCT 2019 01:53:27

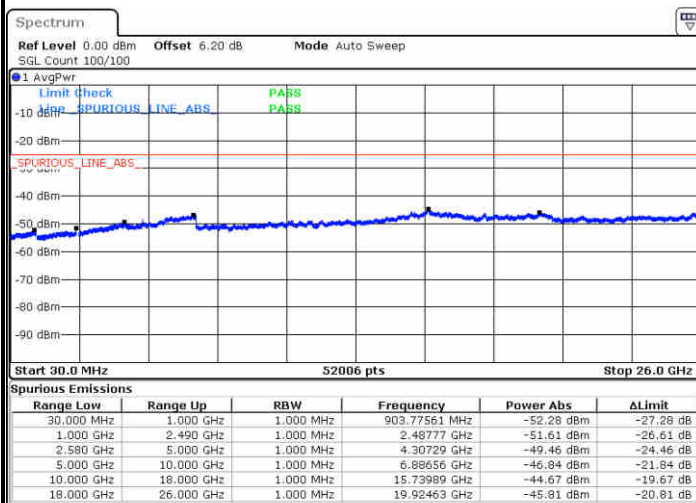
Highest Channel / 16QAM



Date: 20 OCT 2019 01:54:20

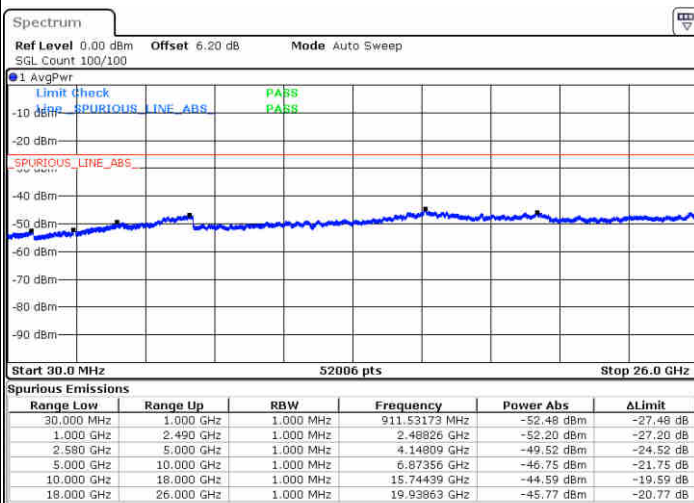
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 20 OCT 2019 02:29:39

Lowest Channel / 16QAM

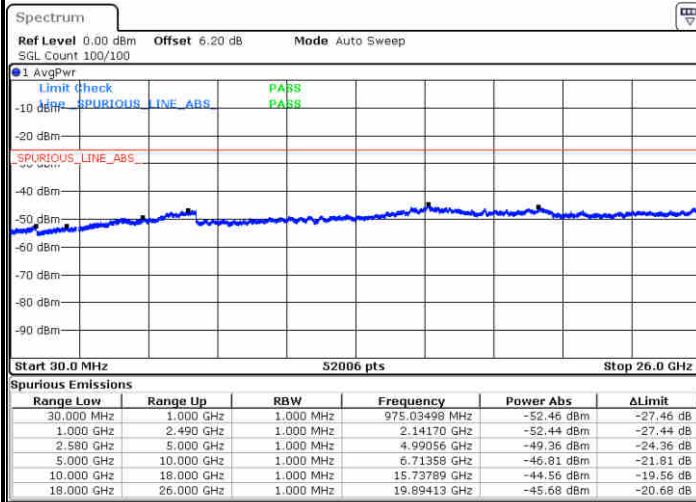


Date: 20 OCT 2019 02:30:32



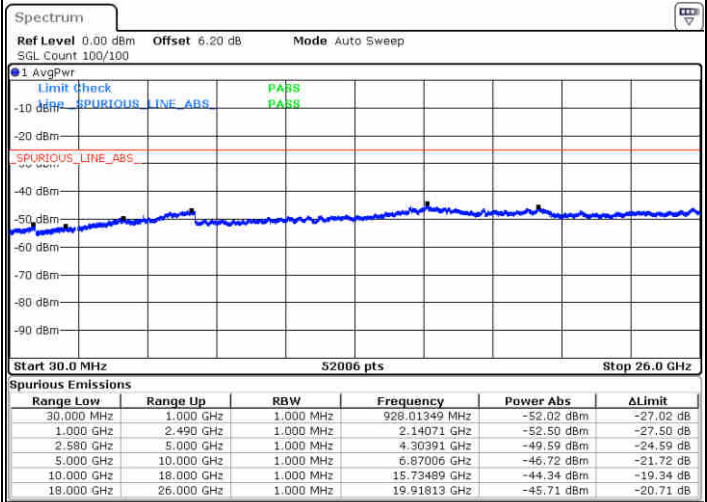
LTE Band 7 / 10MHz

Middle Channel / QPSK



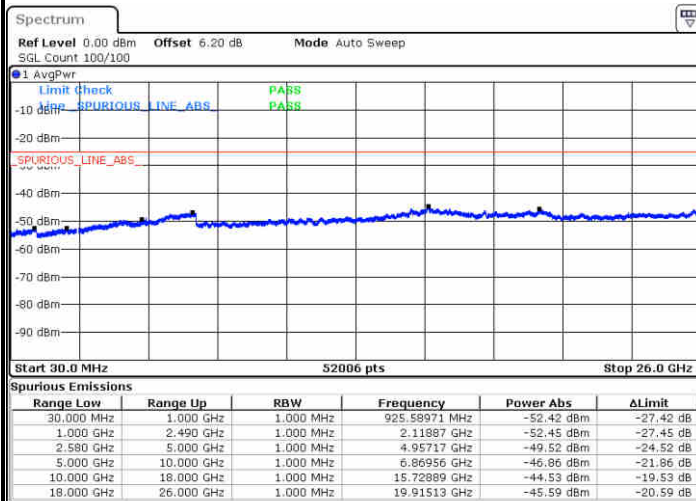
Date: 20.OCT.2019 02:32:20

Middle Channel / 16QAM



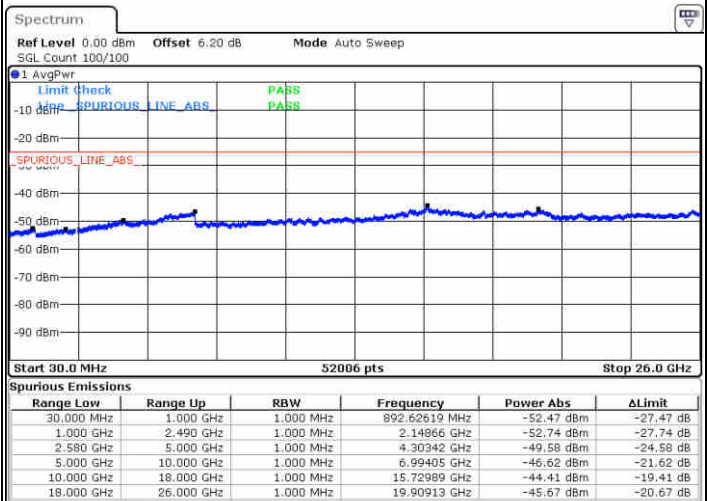
Date: 20.OCT.2019 02:31:26

Highest Channel / QPSK



Date: 20.OCT.2019 02:33:14

Highest Channel / 16QAM

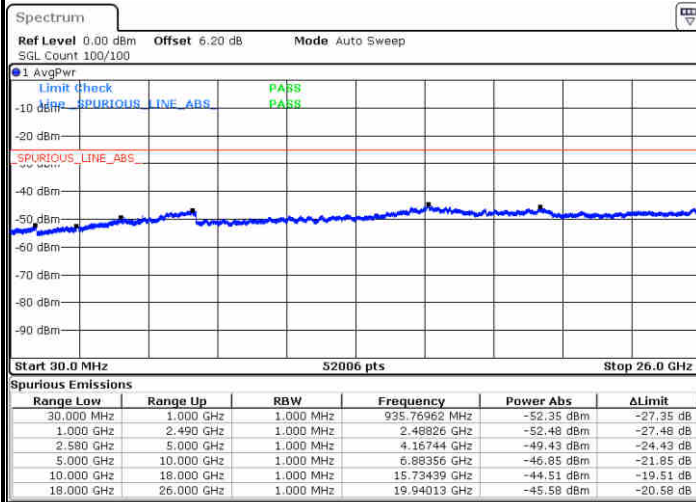


Date: 20.OCT.2019 02:34:07



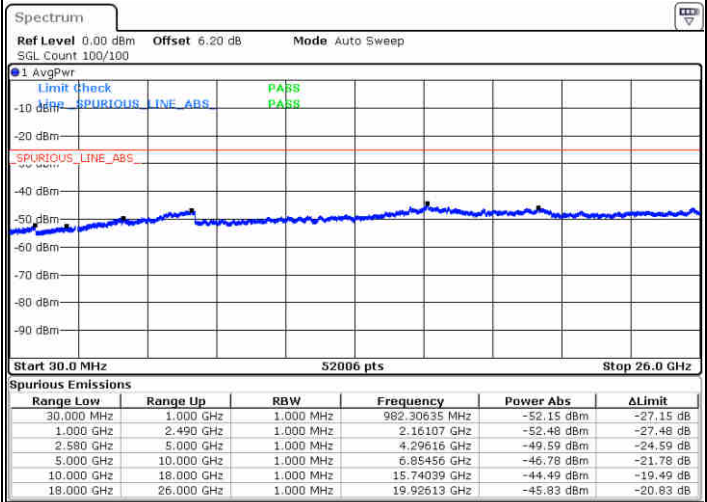
LTE Band 7 / 15MHz

Lowest Channel / QPSK



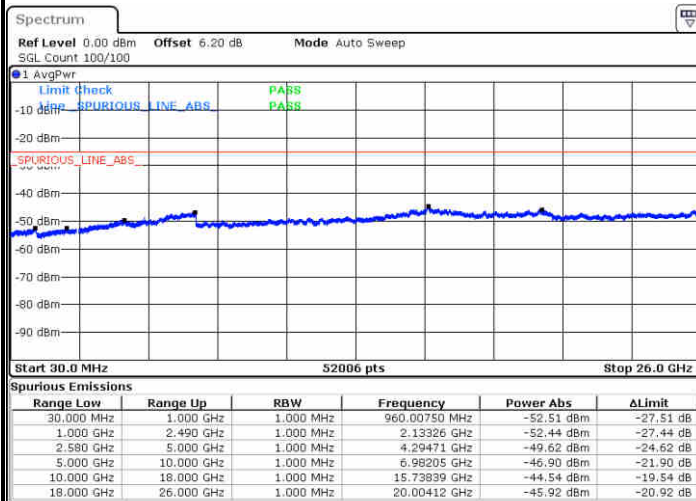
Date: 20.OCT.2019 02:46:07

Lowest Channel / 16QAM



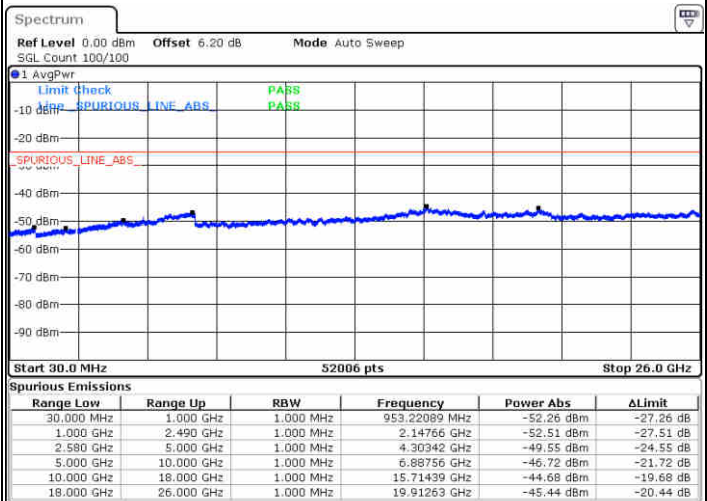
Date: 20.OCT.2019 02:47:01

Middle Channel / QPSK



Date: 20.OCT.2019 02:48:48

Middle Channel / 16QAM

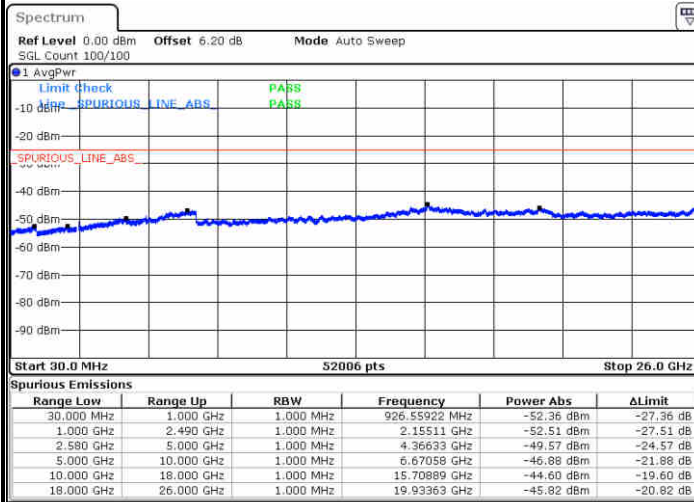


Date: 20.OCT.2019 02:47:55



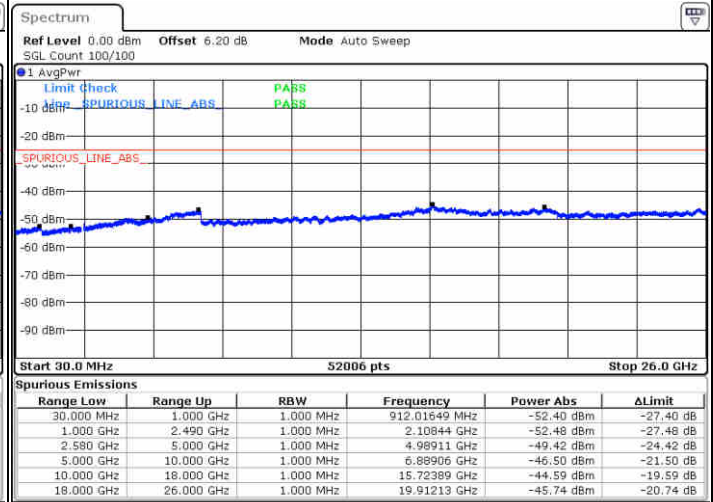
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 20 OCT 2019 02:49:42

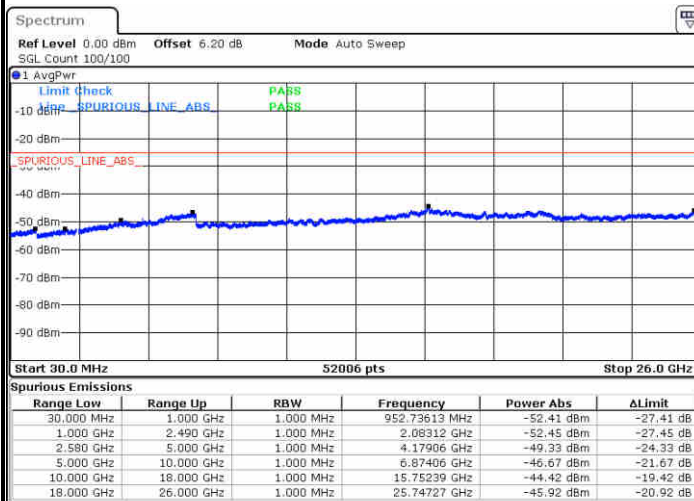
Highest Channel / 16QAM



Date: 20 OCT 2019 02:50:36

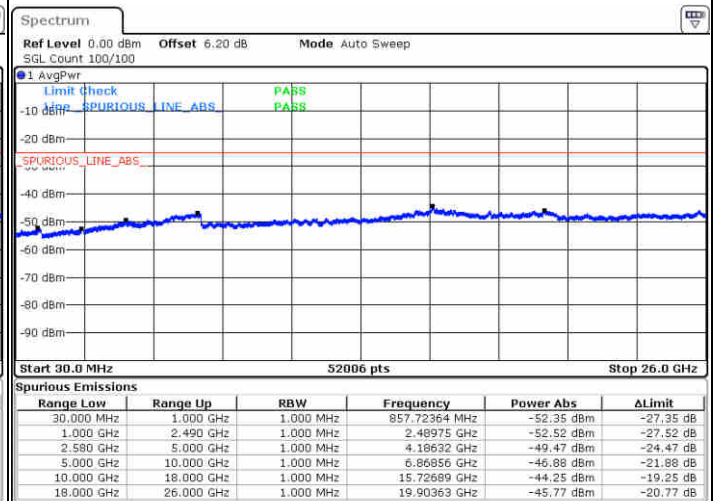
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 20 OCT 2019 03:02:36

Lowest Channel / 16QAM

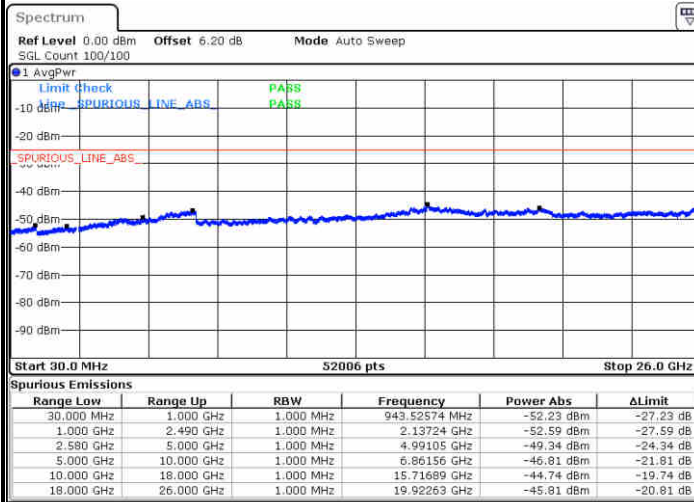


Date: 20 OCT 2019 03:03:29



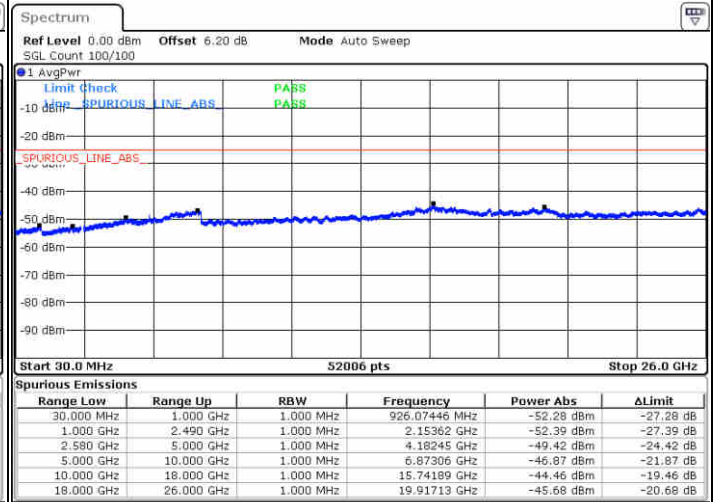
LTE Band 7 / 20MHz

Middle Channel / QPSK



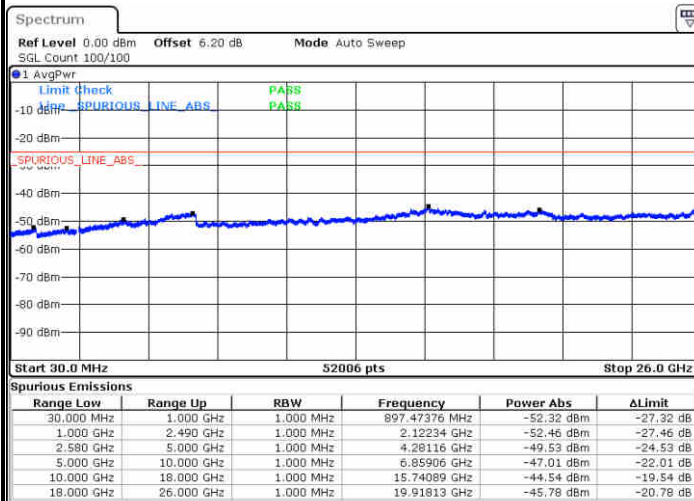
Date: 20.OCT.2019 03:05:17

Middle Channel / 16QAM



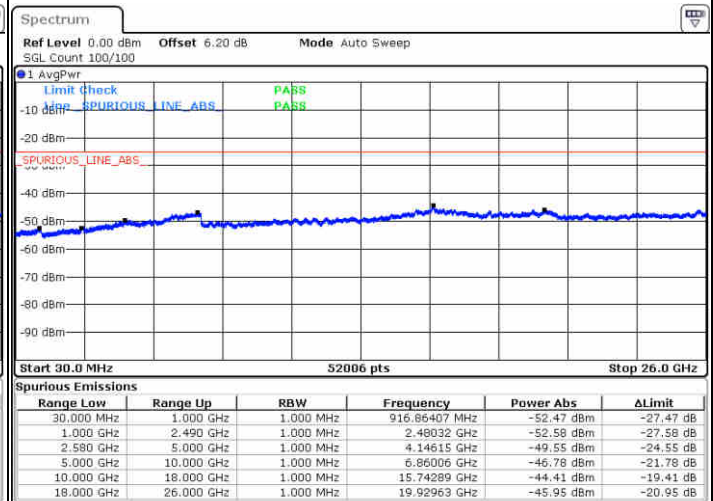
Date: 20.OCT.2019 03:04:23

Highest Channel / QPSK



Date: 20.OCT.2019 03:06:11

Highest Channel / 16QAM

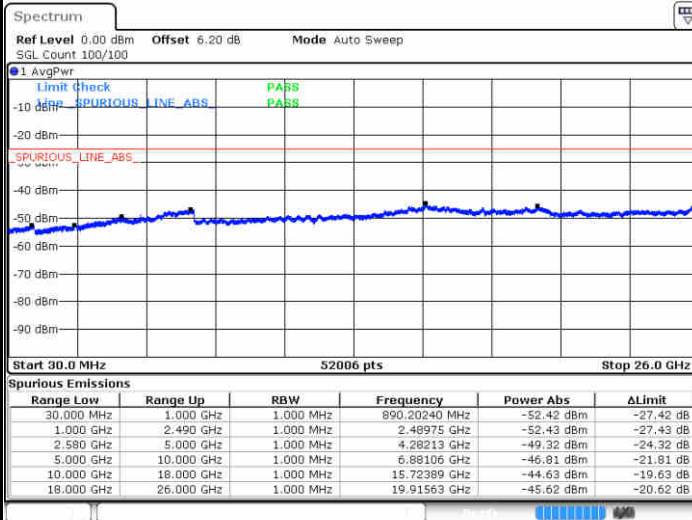


Date: 20.OCT.2019 03:07:05



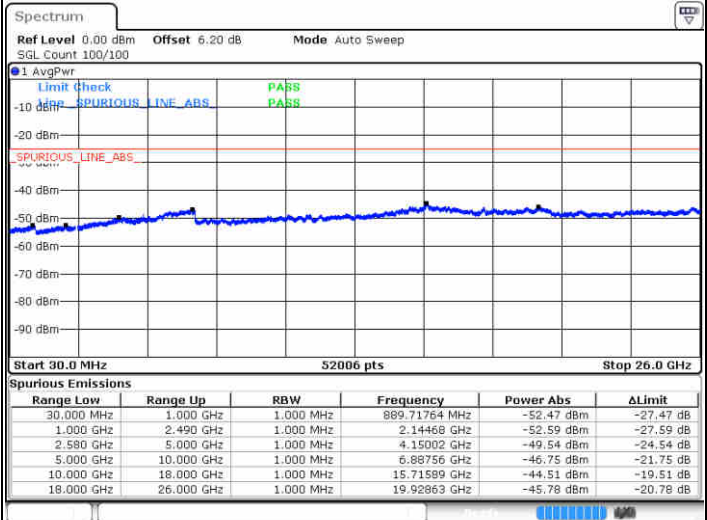
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



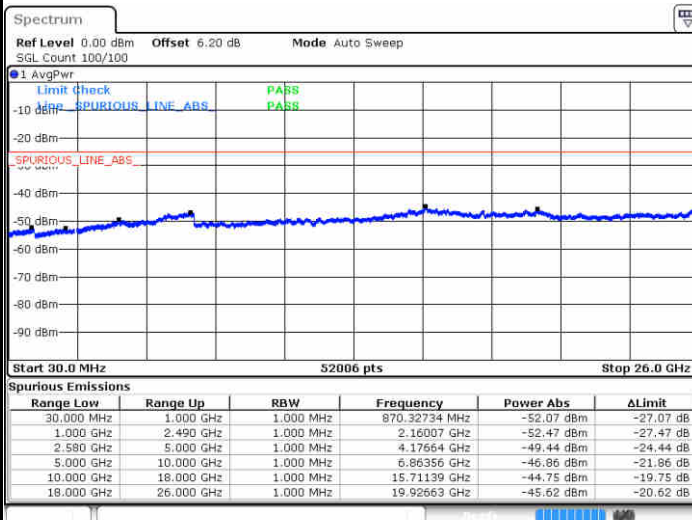
Date: 20 OCT 2019 03:08:59

Middle Channel / 64QAM



Date: 20 OCT 2019 03:09:52

Highest Channel / 64QAM

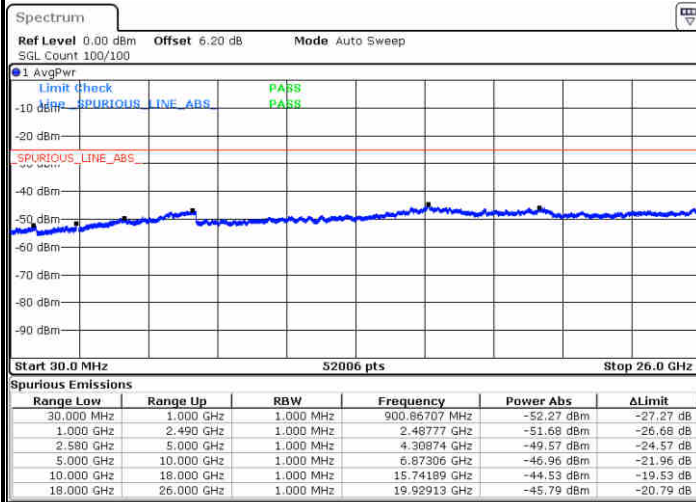


Date: 20 OCT 2019 03:10:46



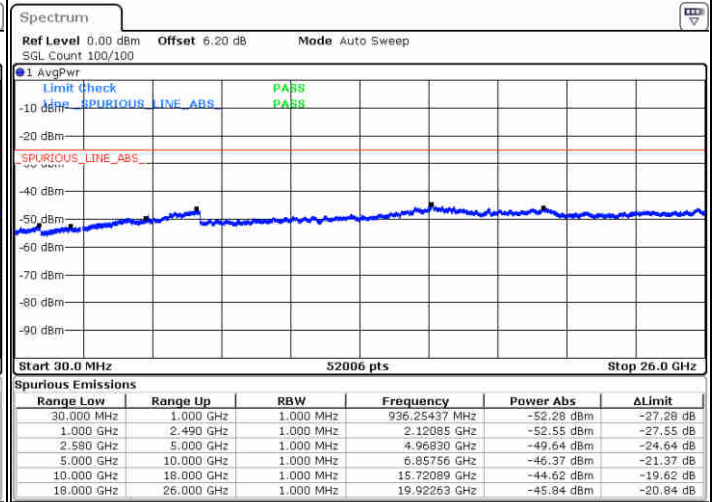
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



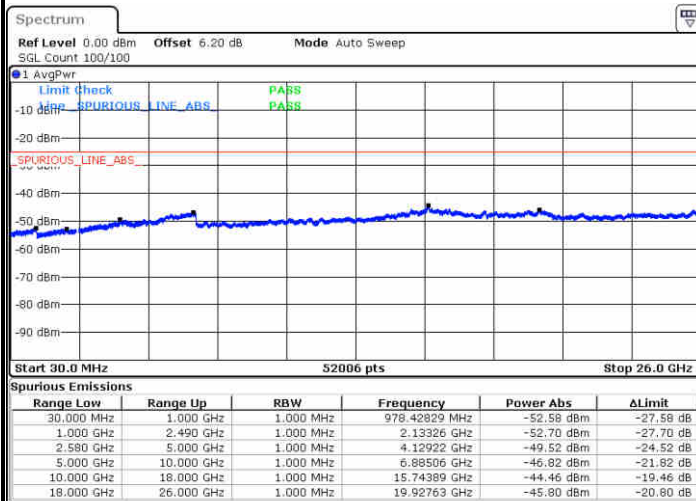
Date: 20.OCT.2019 03:17:13

Middle Channel / 64QAM



Date: 20.OCT.2019 03:18:07

Highest Channel / 64QAM

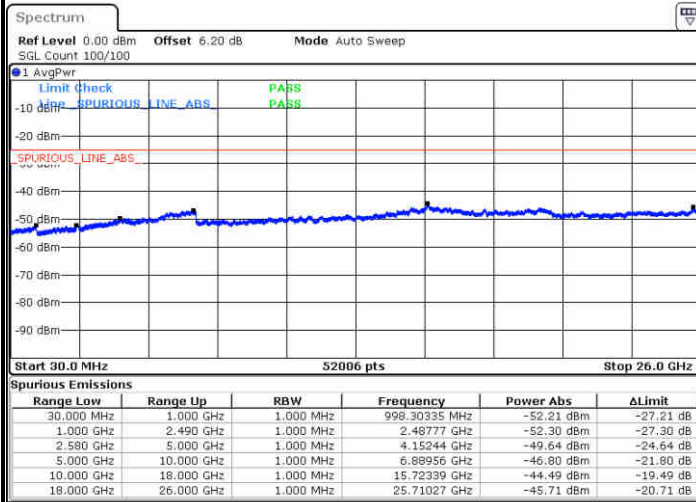


Date: 20.OCT.2019 03:19:01



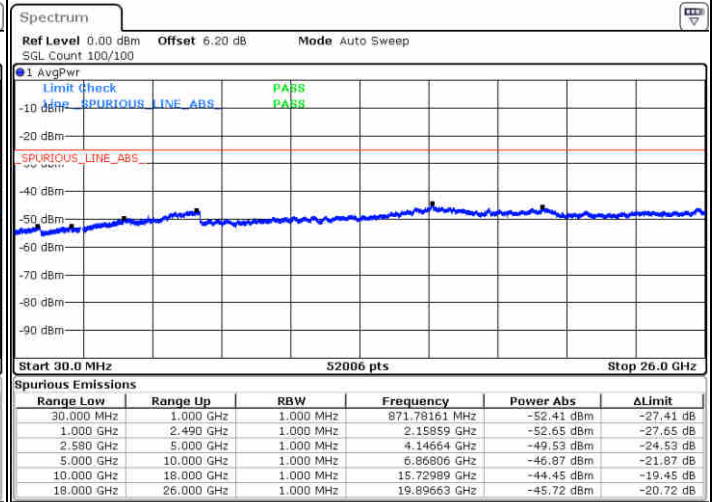
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



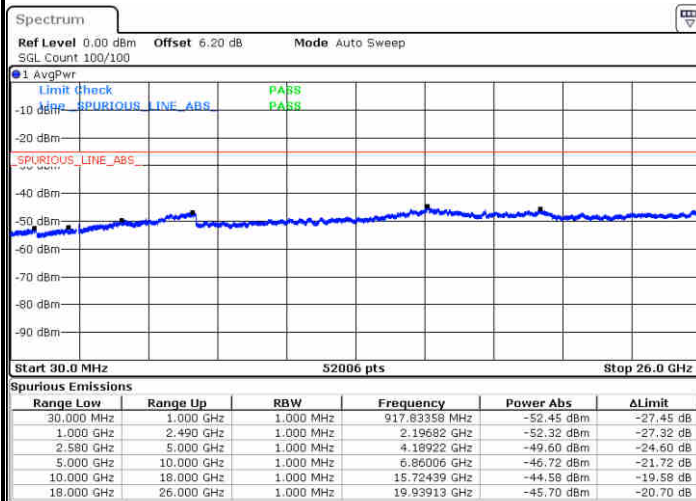
Date: 20 OCT 2019 03:30:00

Middle Channel / 64QAM



Date: 20 OCT 2019 03:30:54

Highest Channel / 64QAM

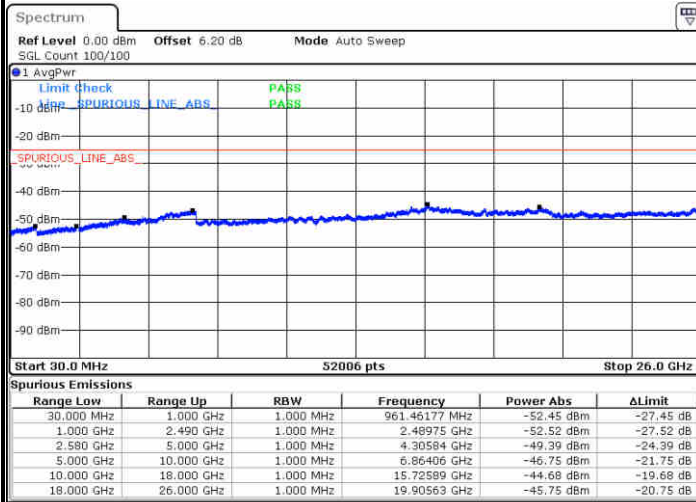


Date: 20 OCT 2019 03:31:48



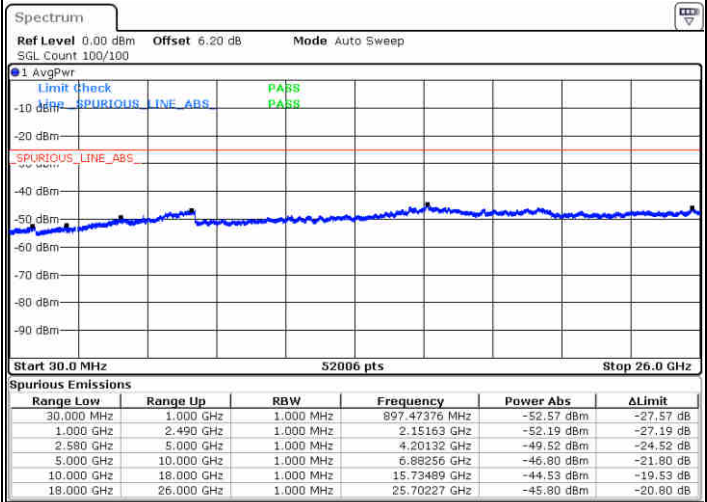
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



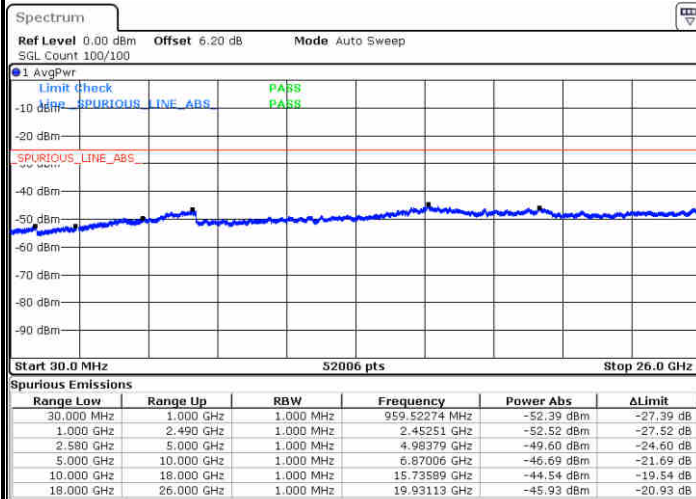
Date: 20 OCT 2019 03:38:14

Middle Channel / 64QAM



Date: 20 OCT 2019 03:39:08

Highest Channel / 64QAM



Date: 20 OCT 2019 03:40:02

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0033	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0037	

Note:

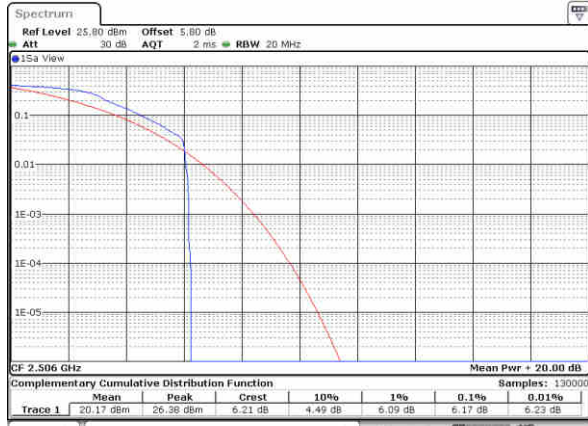
1. Normal Voltage =3.8 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



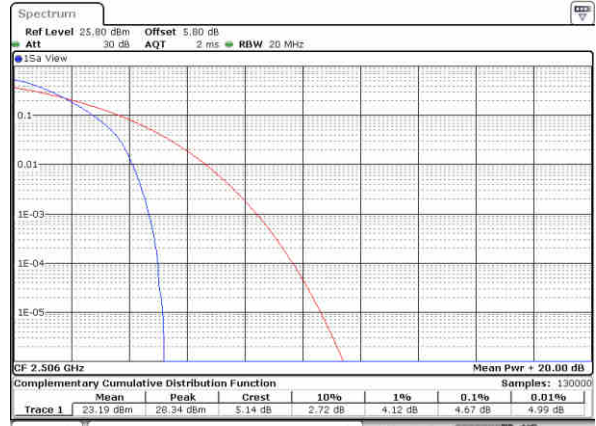
LTE Band 41

Peak-to-Average Ratio

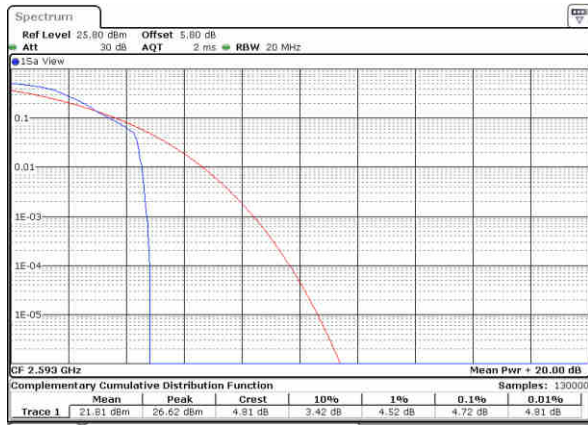
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.17	4.67	5.42	6.17	PASS
Middle CH	4.72	4.35	5.22	5.88	
Highest CH	6.84	6.26	4.78	6.09	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB	Result		
Lowest CH	6.35	6.64	PASS		
Middle CH	6.35	6.73			
Highest CH	6.41	6.49			

LTE Band 41 / 20MHz / QPSK
Lowest Channel / 1RB


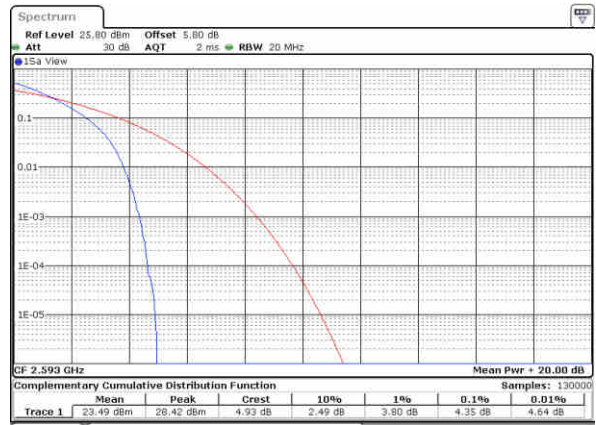
Date: 30.OCT.2019 13:36:54

Lowest Channel / Full RB


Date: 30.OCT.2019 13:37:13

Middle Channel / 1RB


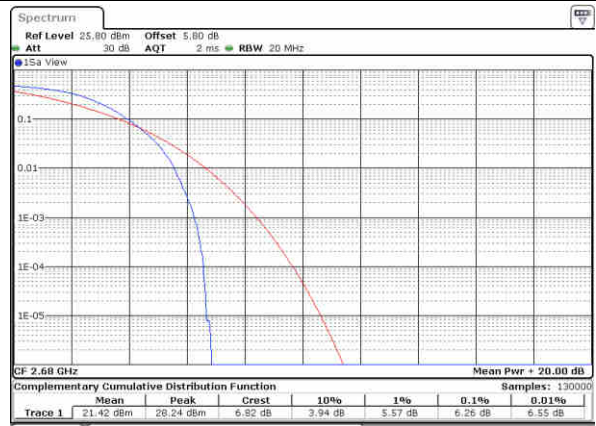
Date: 30.OCT.2019 13:37:32

Middle Channel / Full RB


Date: 30.OCT.2019 13:37:55

Highest Channel / 1RB


Date: 30.OCT.2019 13:38:06

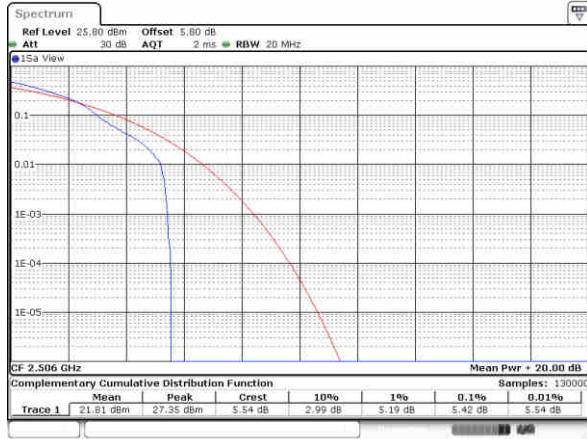
Highest Channel / Full RB


Date: 30.OCT.2019 13:38:16

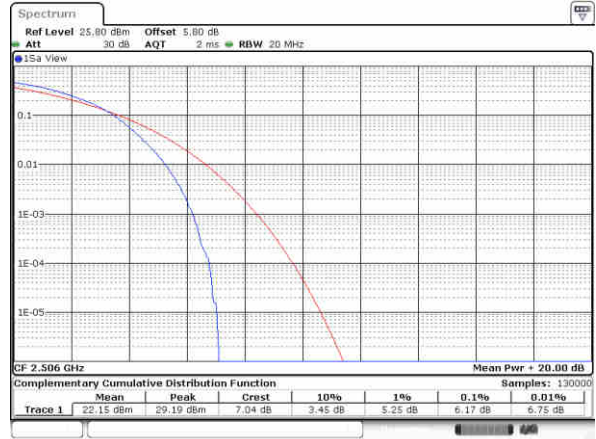


LTE Band 41 / 20MHz / 16QAM

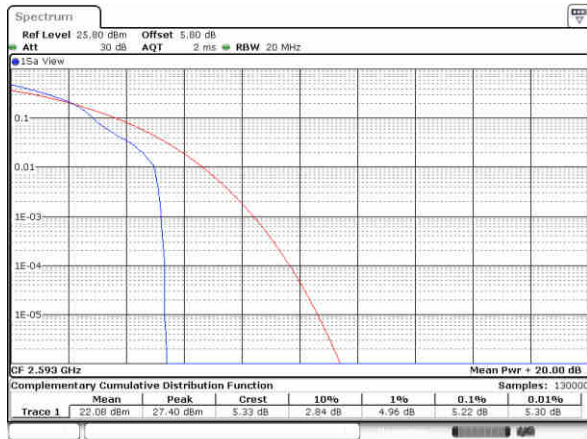
Lowest Channel / 1RB



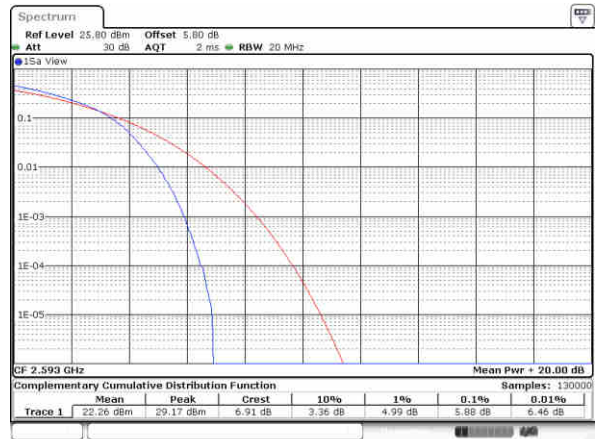
Lowest Channel / Full RB



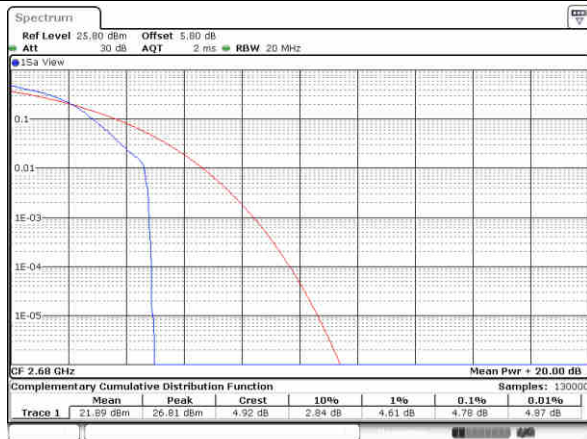
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



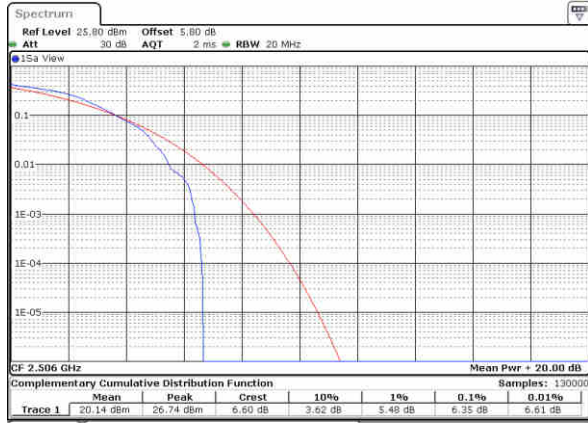
Highest Channel / Full RB





LTE Band 41 / 20MHz / 64QAM

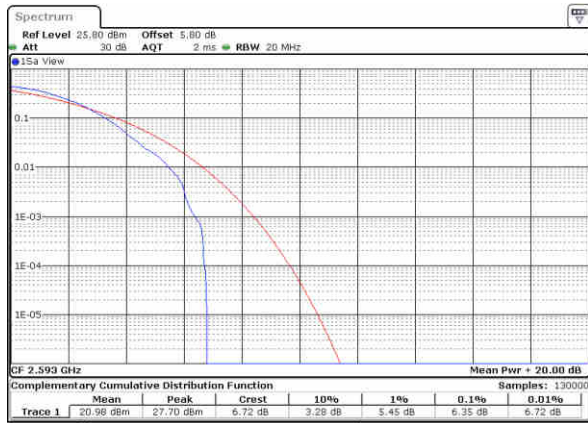
Lowest Channel / 1RB



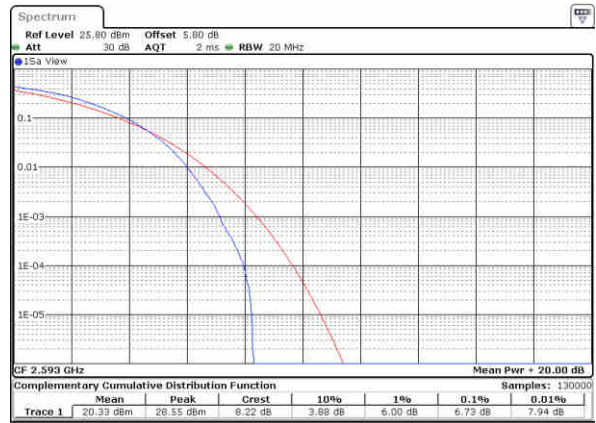
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



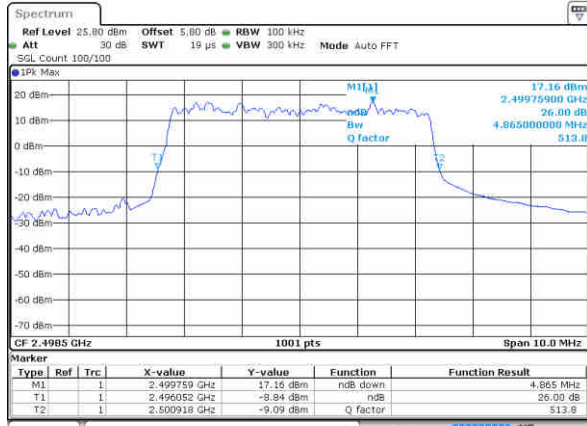
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.865	4.815	9.69	9.73	14.206	14.326	20.02	20.06
Middle CH	-	-	-	-	4.895	4.775	9.85	9.83	14.236	14.146	20.06	19.98
Highest CH	-	-	-	-	4.875	4.885	9.61	9.65	14.505	14.236	20.10	20.02
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-		-		4.865		9.79		14.386		20.06	
Middle CH	-		-		4.835		9.69		14.206		20.06	
Highest CH	-		-		4.705		9.71		14.326		20.06	

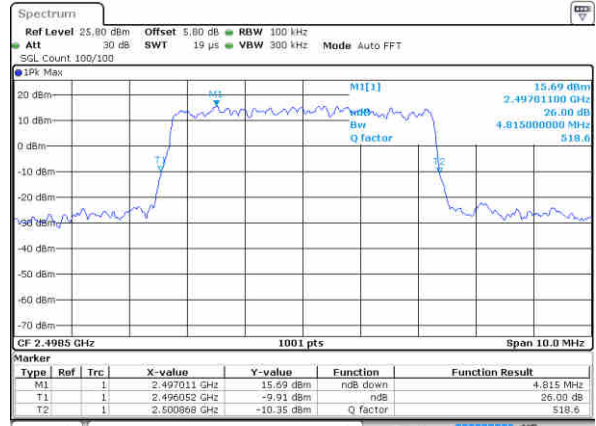


LTE Band 41

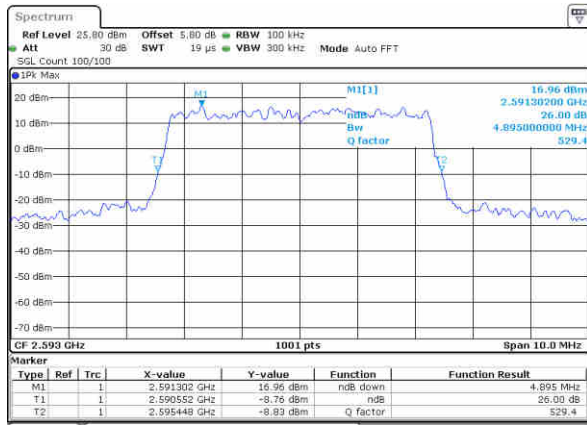
Lowest Channel / 5MHz / QPSK



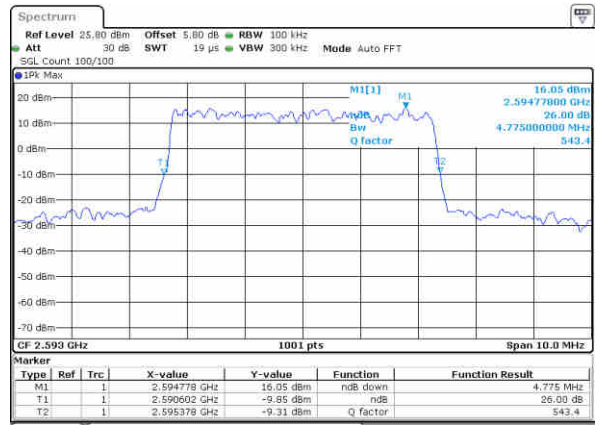
Lowest Channel / 5MHz / 16QAM



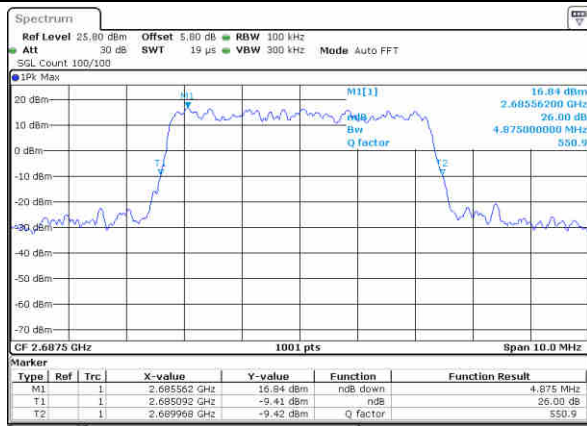
Middle Channel / 5MHz / QPSK



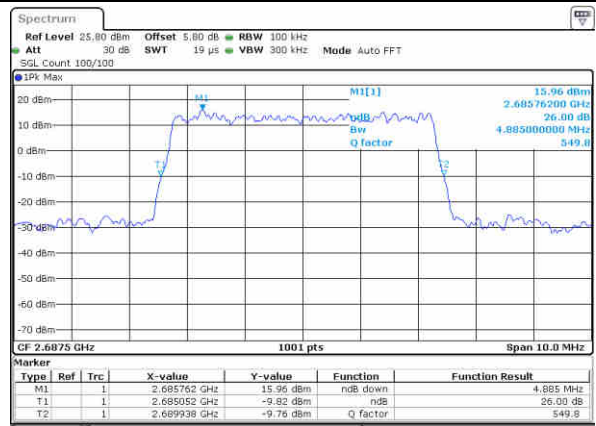
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



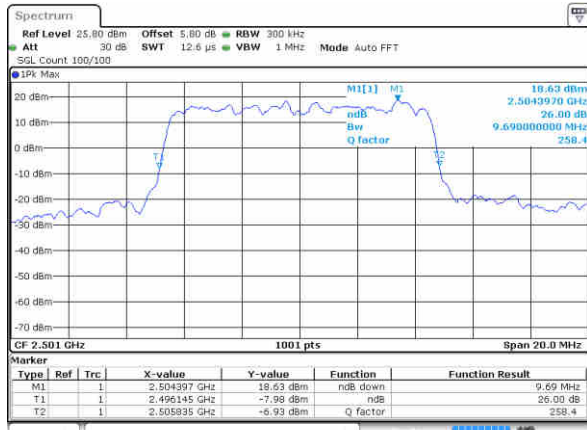
Highest Channel / 5MHz / 16QAM





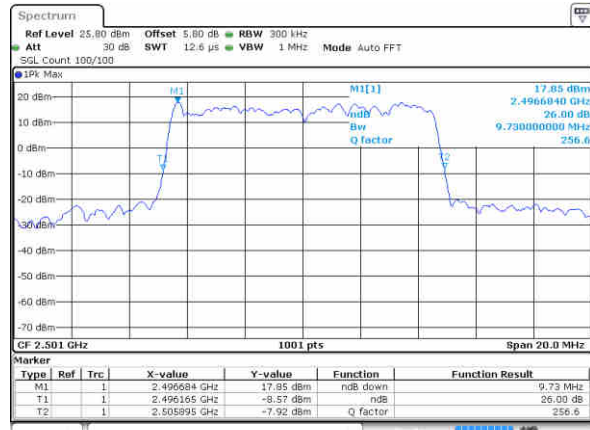
LTE Band 41

Lowest Channel / 10MHz / QPSK



Date: 30.OCT.2019 11:56:37

Lowest Channel / 10MHz / 16QAM



Date: 30.OCT.2019 11:56:47

Middle Channel / 10MHz / QPSK



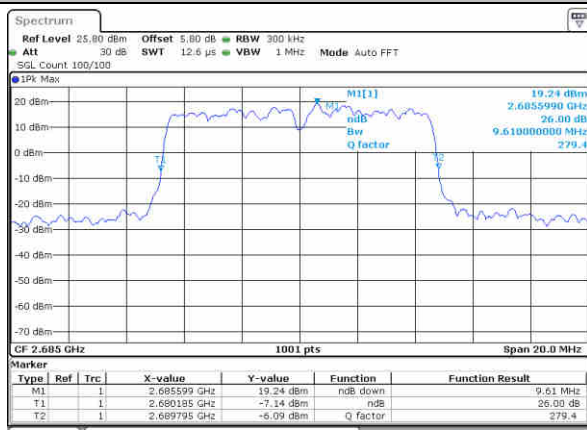
Date: 30.OCT.2019 11:57:18

Middle Channel / 10MHz / 16QAM



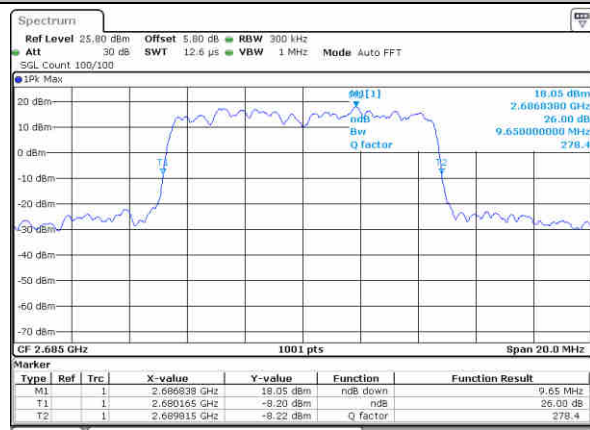
Date: 30.OCT.2019 11:57:28

Highest Channel / 10MHz / QPSK



Date: 30.OCT.2019 11:57:58

Highest Channel / 10MHz / 16QAM

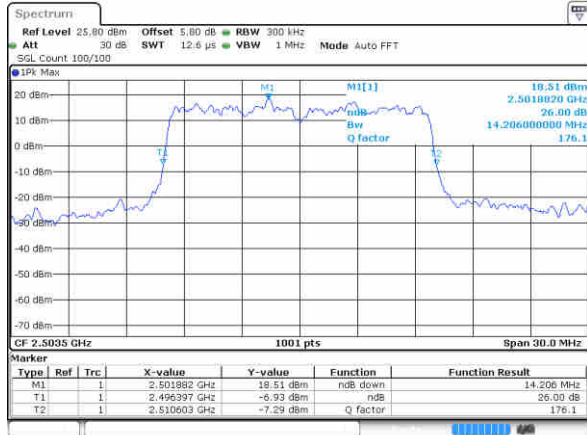


Date: 30.OCT.2019 11:58:08



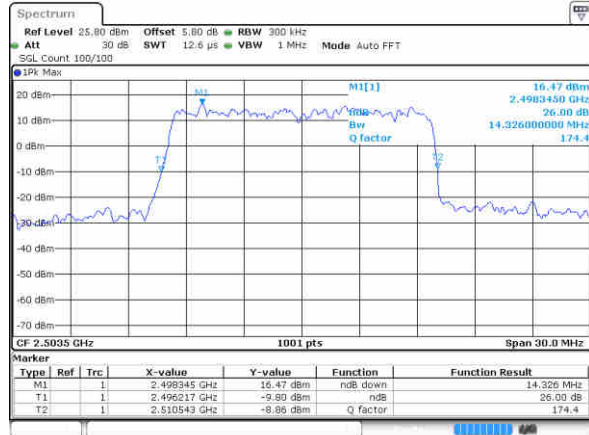
LTE Band 41

Lowest Channel / 15MHz / QPSK



Date: 30.OCT.2019 11:58:38

Lowest Channel / 15MHz / 16QAM



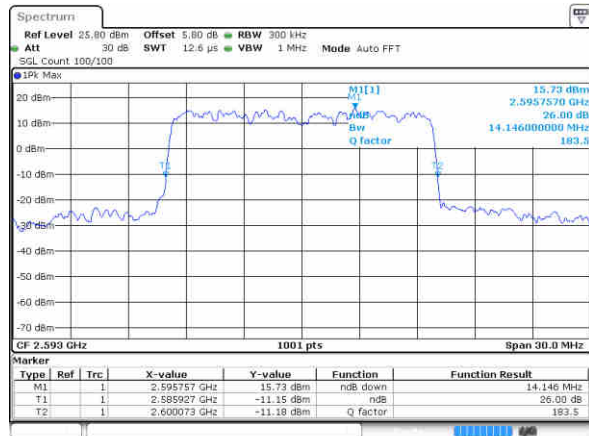
Date: 30.OCT.2019 11:58:48

Middle Channel / 15MHz / QPSK



Date: 30.OCT.2019 11:59:18

Middle Channel / 15MHz / 16QAM



Date: 30.OCT.2019 11:59:28

Highest Channel / 15MHz / QPSK



Date: 30.OCT.2019 11:59:58

Highest Channel / 15MHz / 16QAM

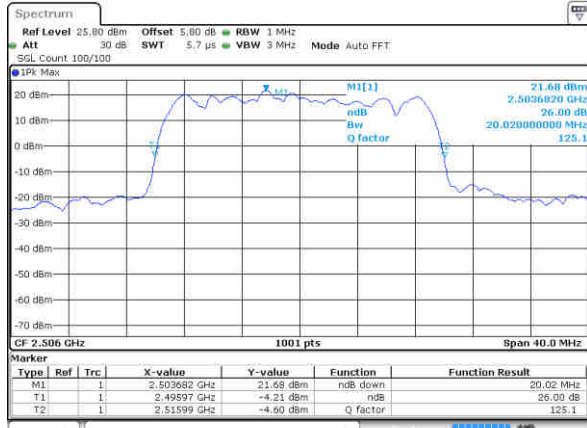


Date: 30.OCT.2019 12:00:08



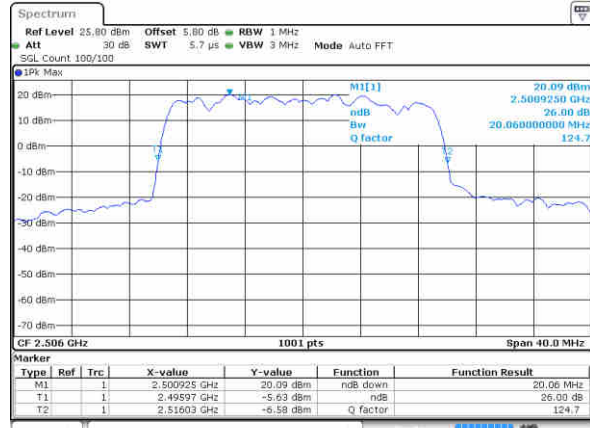
LTE Band 41

Lowest Channel / 20MHz / QPSK



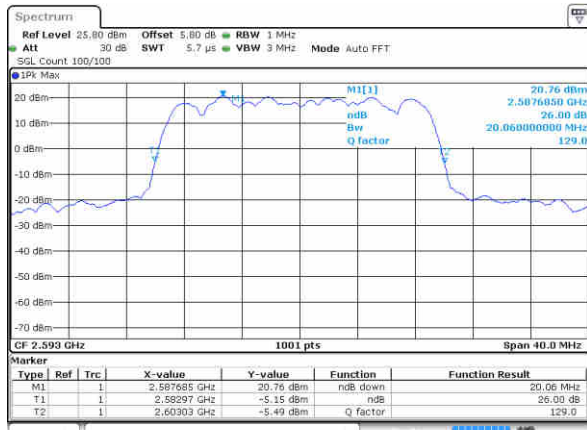
Date: 30.OCT.2019 12:00:39

Lowest Channel / 20MHz / 16QAM



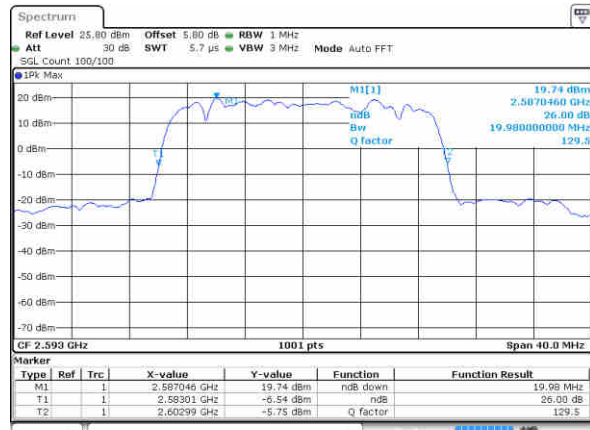
Date: 30.OCT.2019 12:00:49

Middle Channel / 20MHz / QPSK



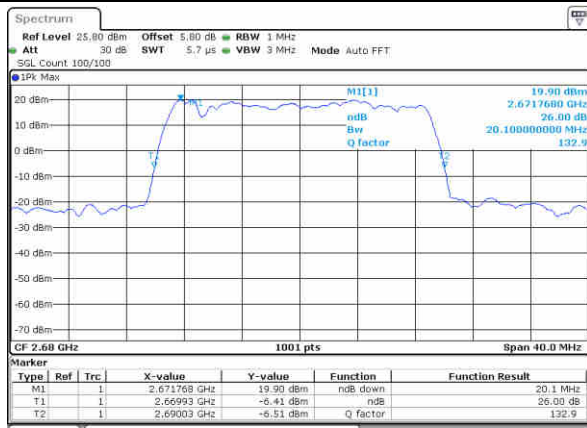
Date: 30.OCT.2019 12:01:19

Middle Channel / 20MHz / 16QAM



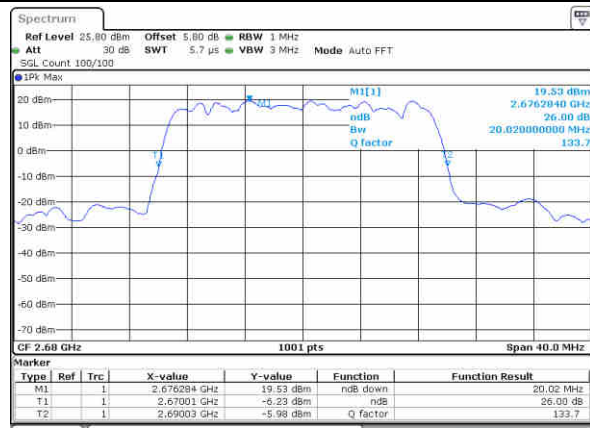
Date: 30.OCT.2019 12:01:28

Highest Channel / 20MHz / QPSK



Date: 30.OCT.2019 12:01:58

Highest Channel / 20MHz / 16QAM

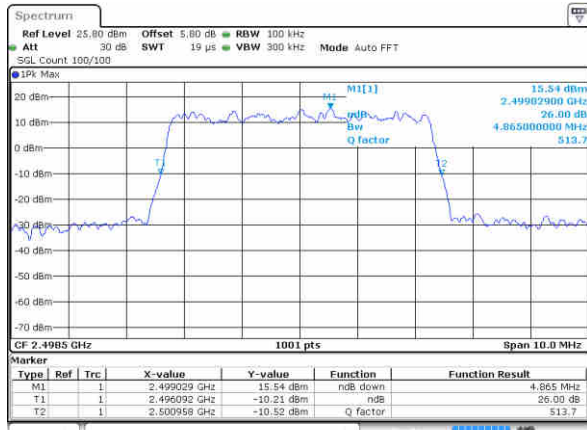


Date: 30.OCT.2019 12:02:08



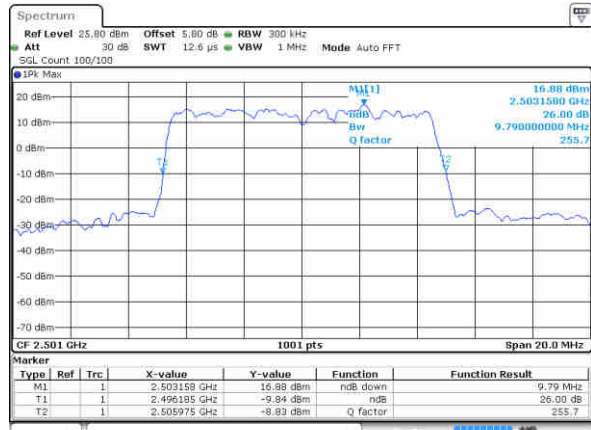
LTE Band 41

Lowest Channel / 5MHz / 64QAM



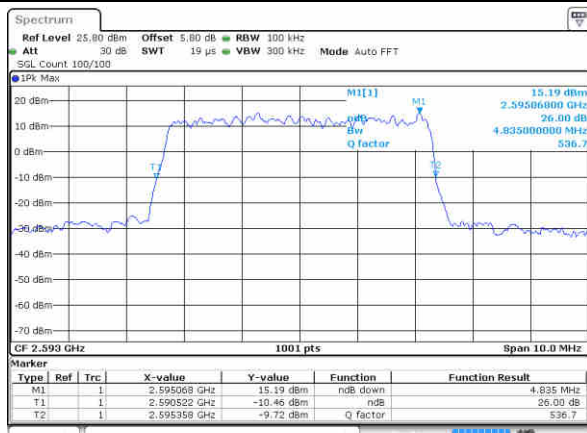
Date: 30.OCT.2019 12:02:28

Lowest Channel / 10MHz / 64QAM



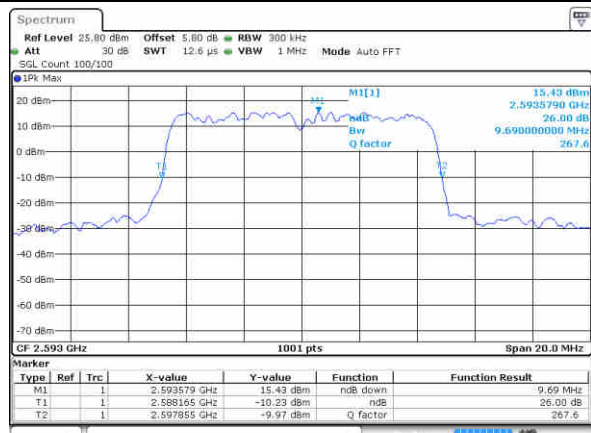
Date: 30.OCT.2019 12:03:29

Middle Channel / 5MHz / 64QAM



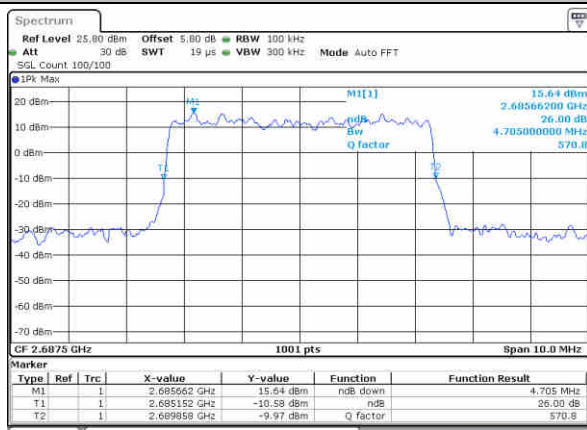
Date: 30.OCT.2019 12:02:48

Middle Channel / 10MHz / 64QAM



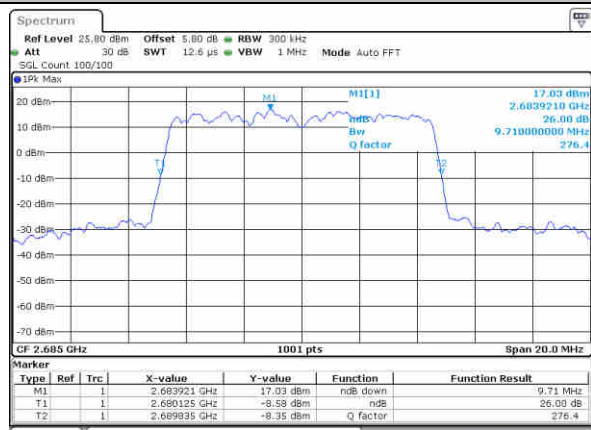
Date: 30.OCT.2019 12:03:48

Highest Channel / 5MHz / 64QAM



Date: 30.OCT.2019 12:03:08

Highest Channel / 10MHz / 64QAM

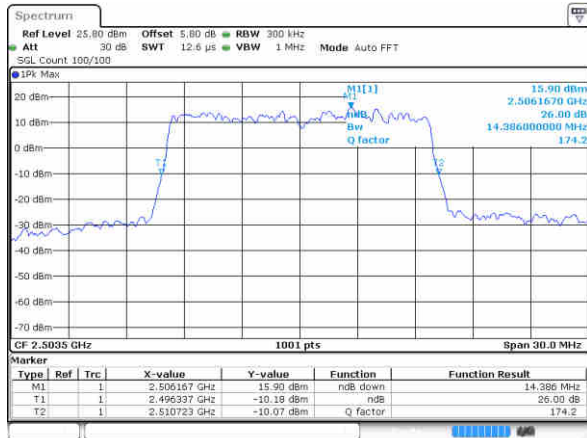


Date: 30.OCT.2019 12:04:09



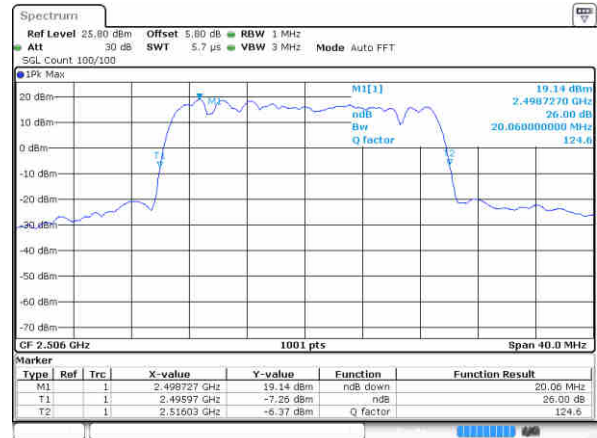
LTE Band 41

Lowest Channel / 15MHz / 64QAM



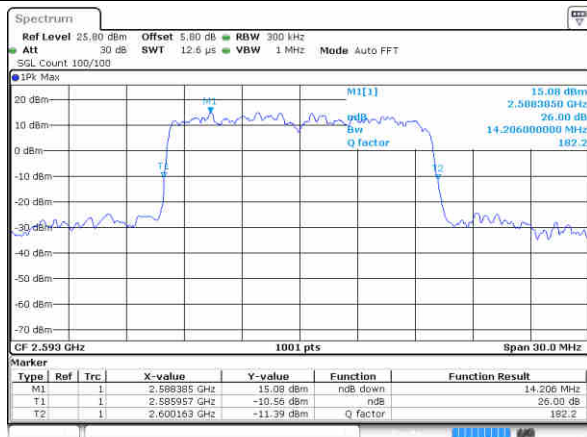
Date: 30.OCT.2019 12:04:29

Lowest Channel / 20MHz / 64QAM



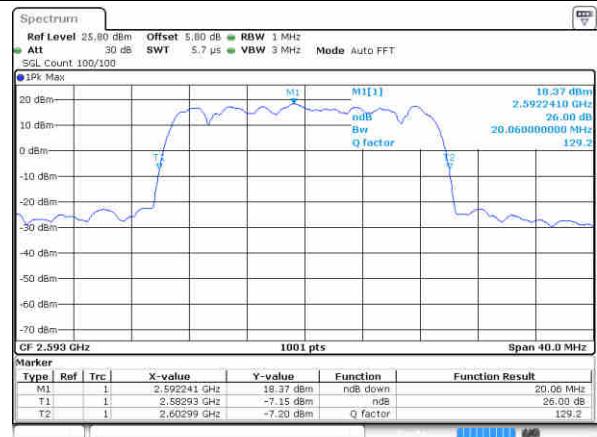
Date: 30.OCT.2019 12:05:30

Middle Channel / 15MHz / 64QAM



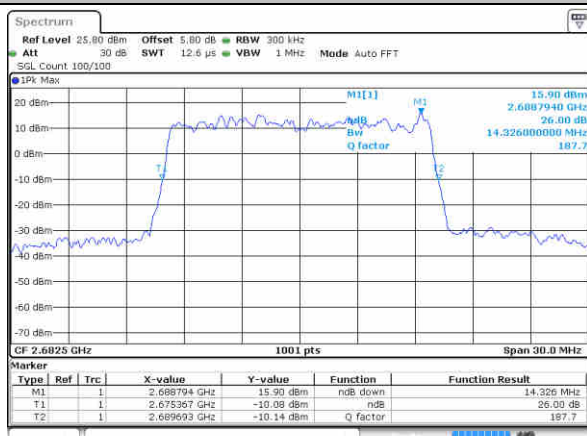
Date: 30.OCT.2019 12:04:49

Middle Channel / 20MHz / 64QAM



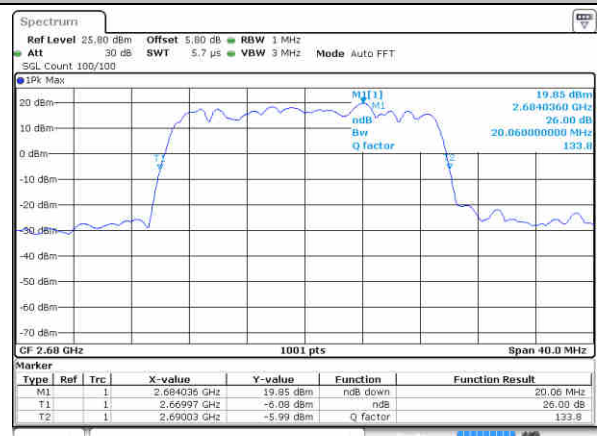
Date: 30.OCT.2019 12:05:50

Highest Channel / 15MHz / 64QAM



Date: 30.OCT.2019 12:05:09

Highest Channel / 20MHz / 64QAM



Date: 30.OCT.2019 12:06:10

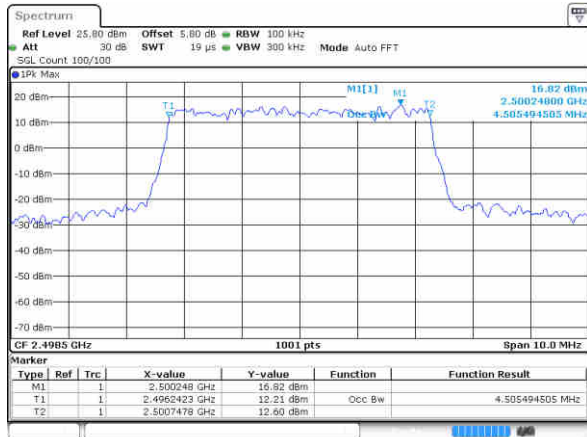
**Occupied Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.51	4.51	9.01	9.07	13.49	13.43	18.14	18.34
Middle CH	-	-	-	-	4.53	4.49	9.03	8.99	13.46	13.43	18.38	18.46
Highest CH	-	-	-	-	4.54	4.48	9.03	9.03	13.43	13.43	18.30	17.98
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-		-		4.52		8.99		13.40		18.26	
Middle CH	-		-		4.49		9.03		13.40		18.42	
Highest CH	-		-		4.52		9.01		13.43		18.34	

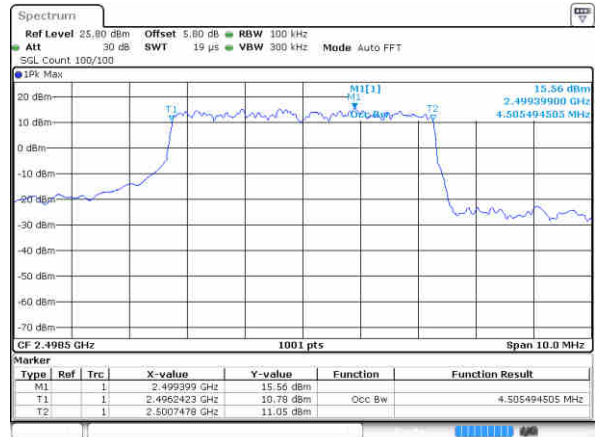


LTE Band 41

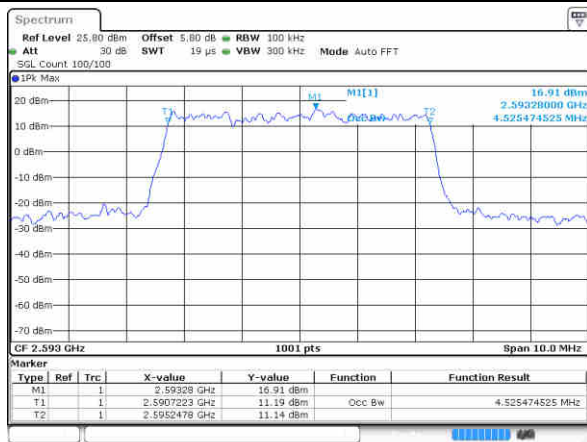
Lowest Channel / 5MHz / QPSK



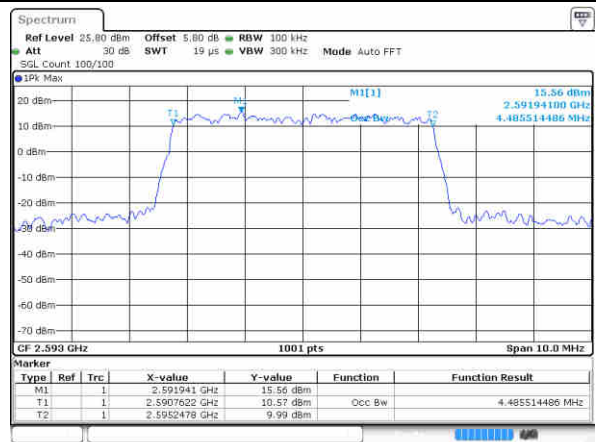
Lowest Channel / 5MHz / 16QAM



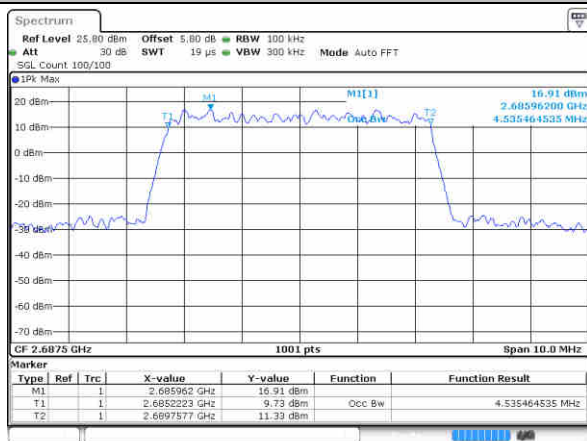
Middle Channel / 5MHz / QPSK



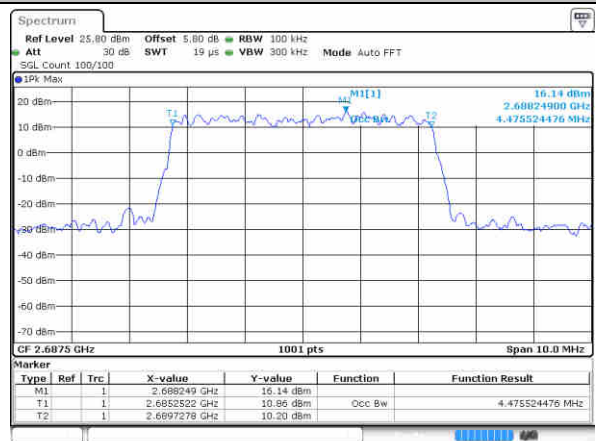
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



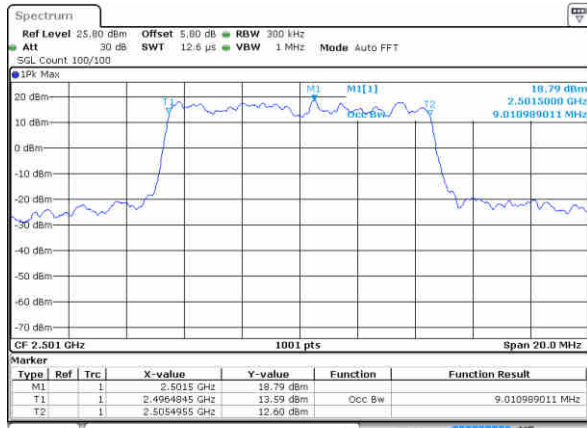
Highest Channel / 5MHz / 16QAM





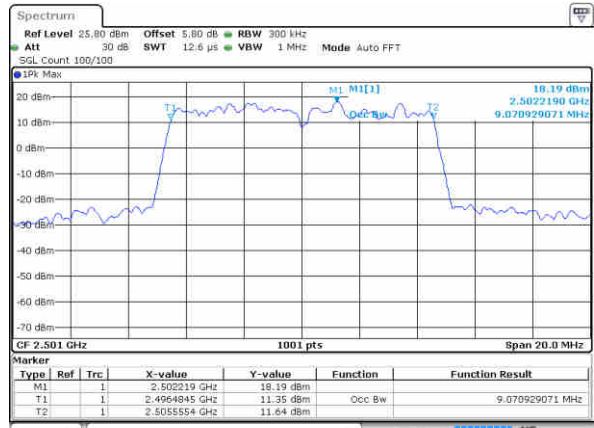
LTE Band 41

Lowest Channel / 10MHz / QPSK



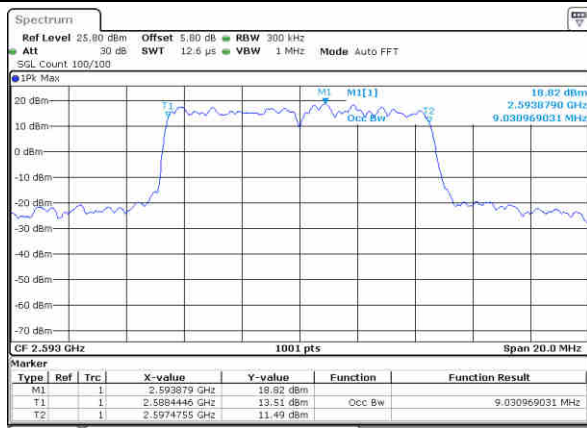
Date: 30.OCT.2019 11:58:17

Lowest Channel / 10MHz / 16QAM



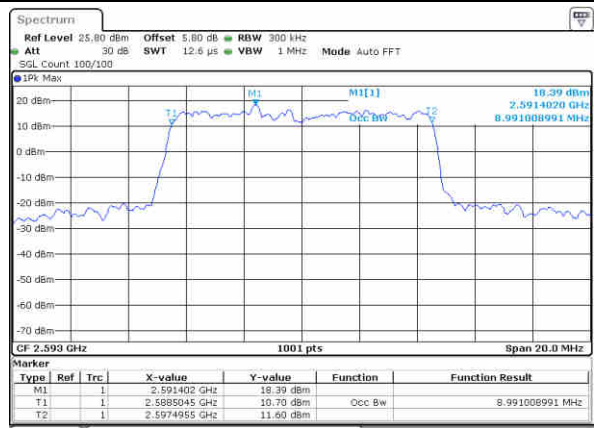
Date: 30.OCT.2019 11:58:27

Middle Channel / 10MHz / QPSK



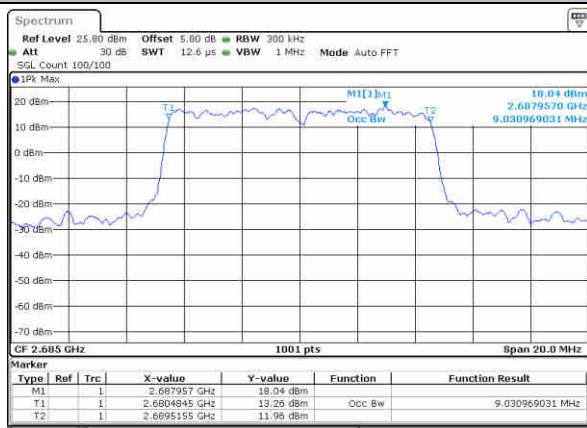
Date: 30.OCT.2019 11:58:57

Middle Channel / 10MHz / 16QAM



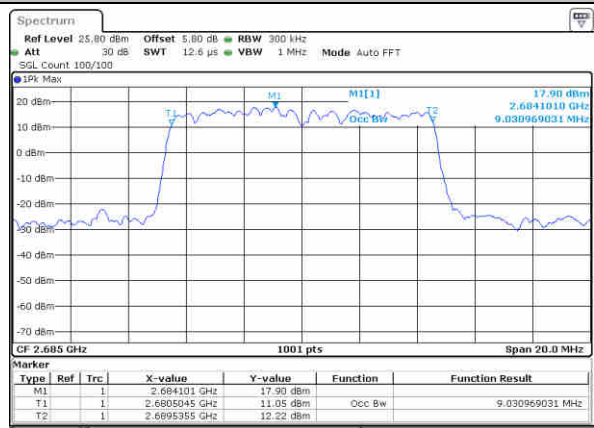
Date: 30.OCT.2019 11:57:08

Highest Channel / 10MHz / QPSK



Date: 30.OCT.2019 11:57:38

Highest Channel / 10MHz / 16QAM

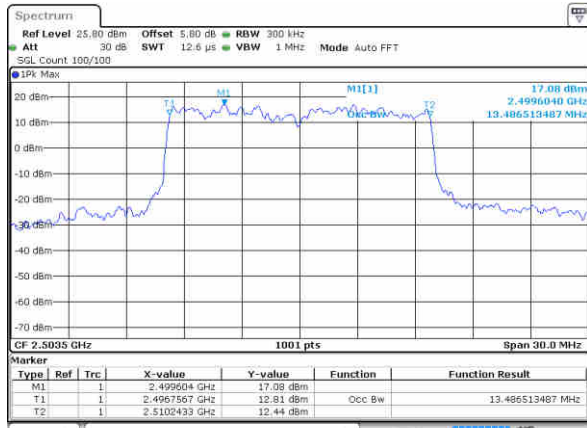


Date: 30.OCT.2019 11:57:48



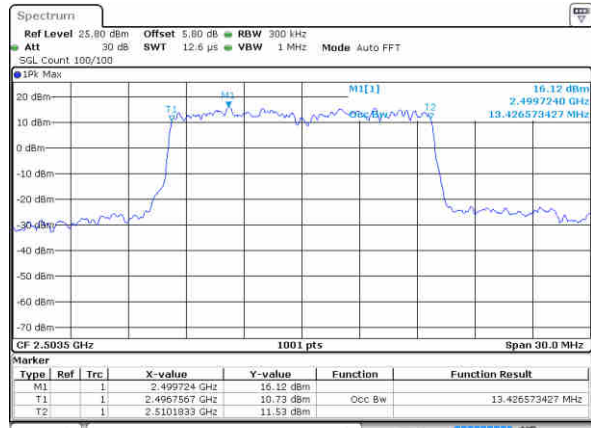
LTE Band 41

Lowest Channel / 15MHz / QPSK



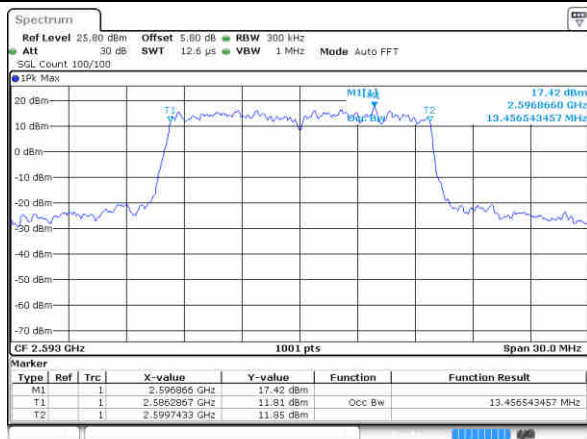
Date: 30.OCT.2019 11:58:18

Lowest Channel / 15MHz / 16QAM



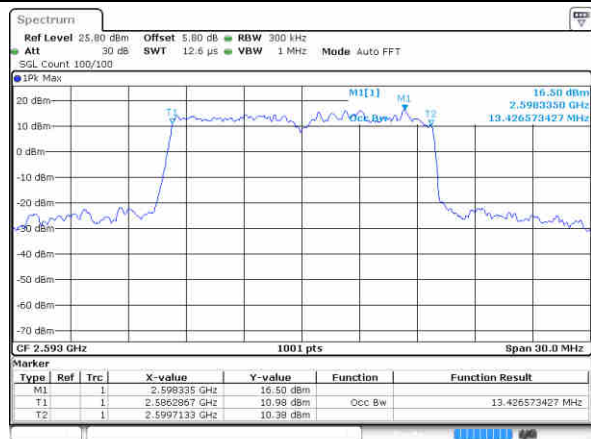
Date: 30.OCT.2019 11:58:28

Middle Channel / 15MHz / QPSK



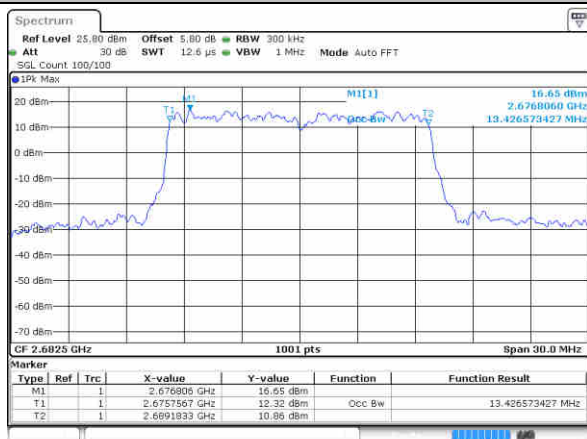
Date: 30.OCT.2019 11:58:58

Middle Channel / 15MHz / 16QAM



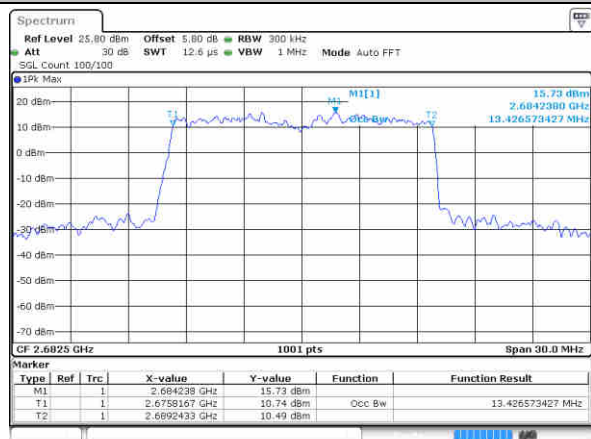
Date: 30.OCT.2019 11:59:08

Highest Channel / 15MHz / QPSK



Date: 30.OCT.2019 11:59:38

Highest Channel / 15MHz / 16QAM

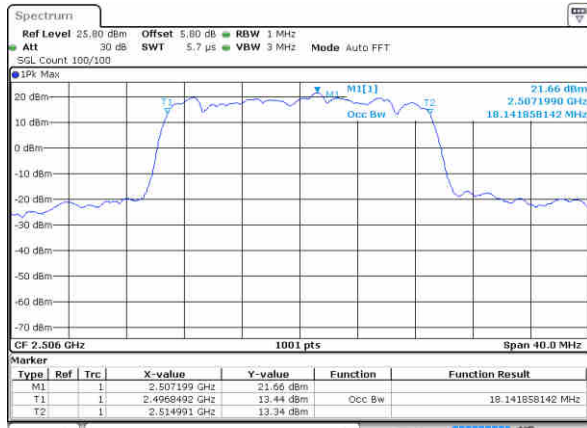


Date: 30.OCT.2019 11:59:48



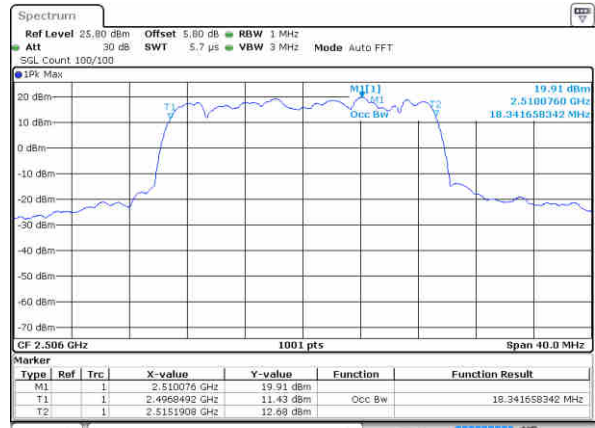
LTE Band 41

Lowest Channel / 20MHz / QPSK



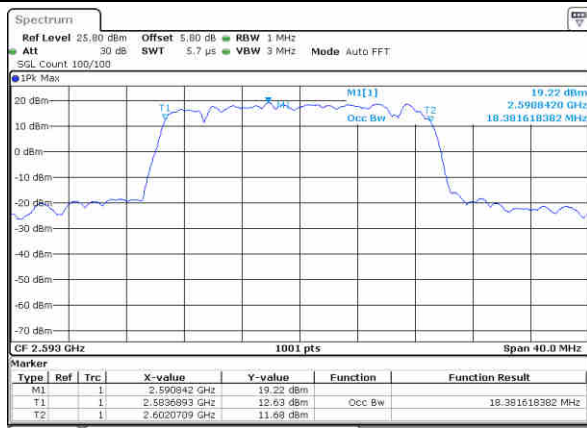
Date: 30.OCT.2019 12:00:19

Lowest Channel / 20MHz / 16QAM



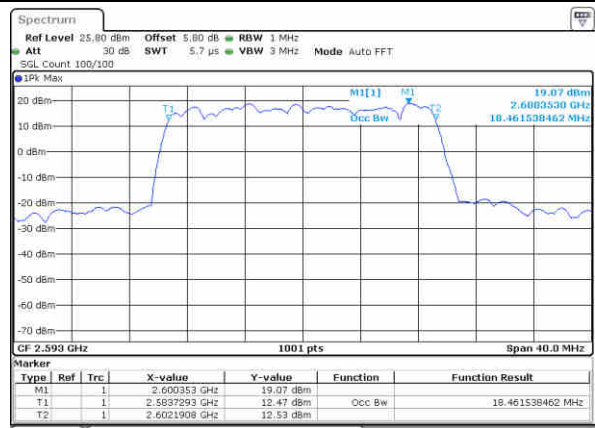
Date: 30.OCT.2019 12:00:29

Middle Channel / 20MHz / QPSK



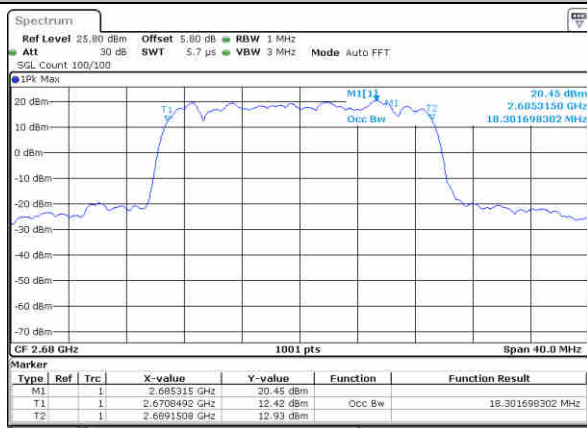
Date: 30.OCT.2019 12:00:58

Middle Channel / 20MHz / 16QAM



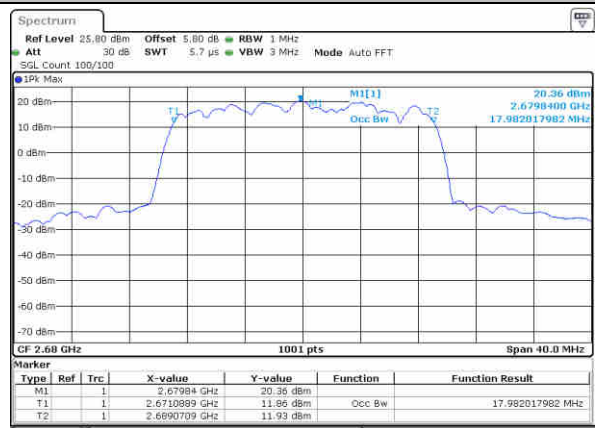
Date: 30.OCT.2019 12:01:09

Highest Channel / 20MHz / QPSK



Date: 30.OCT.2019 12:01:38

Highest Channel / 20MHz / 16QAM

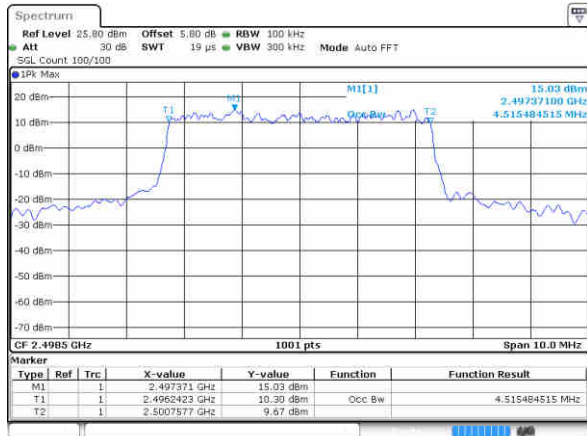


Date: 30.OCT.2019 12:01:48

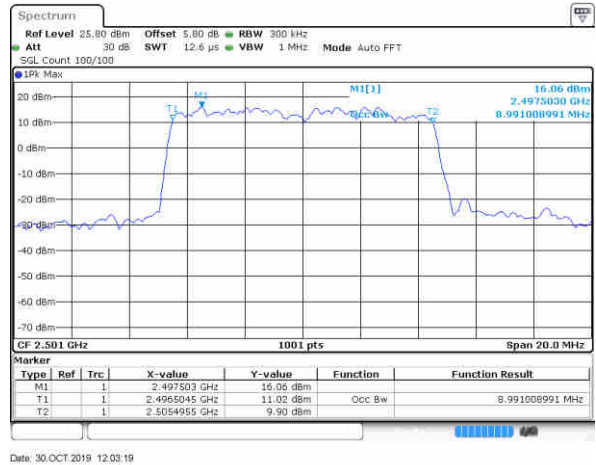


LTE Band 41

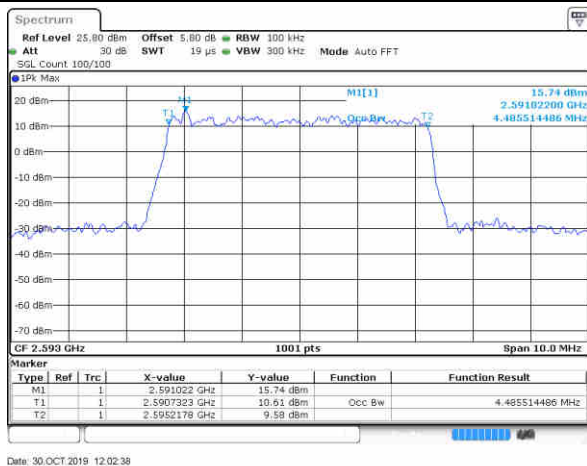
Lowest Channel / 5MHz / 64QAM



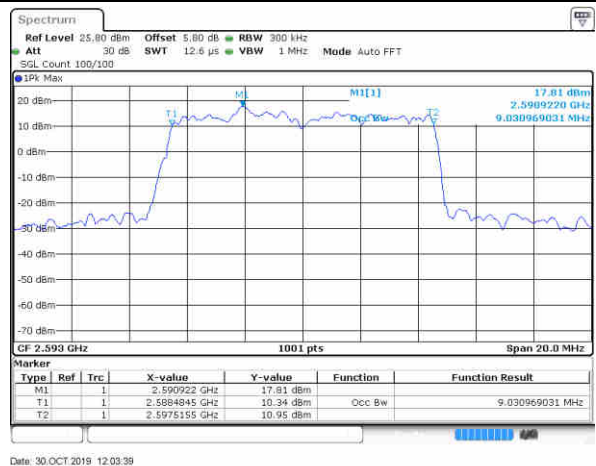
Lowest Channel / 10MHz / 64QAM



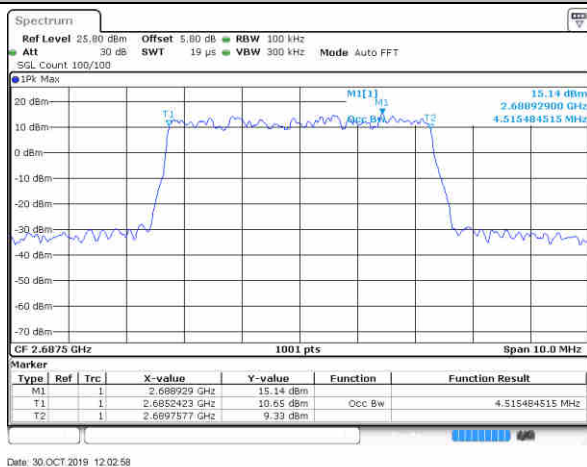
Middle Channel / 5MHz / 64QAM



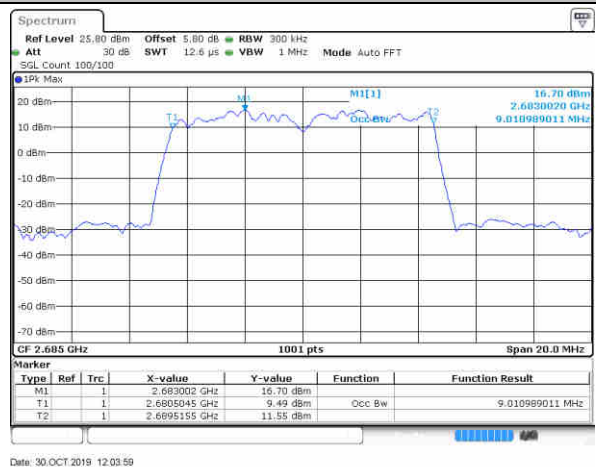
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



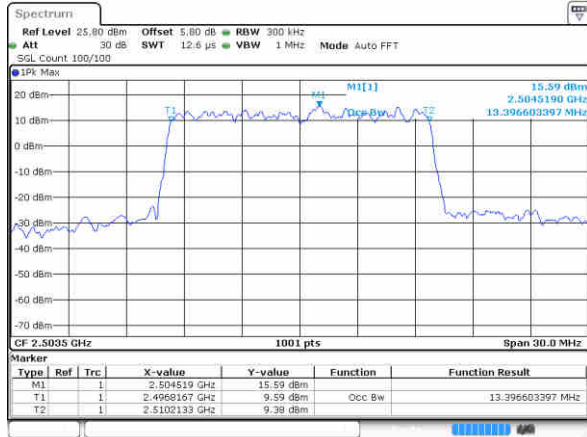
Highest Channel / 10MHz / 64QAM



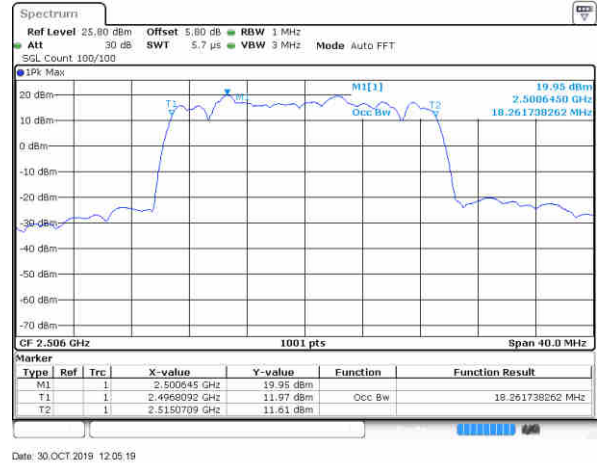


LTE Band 41

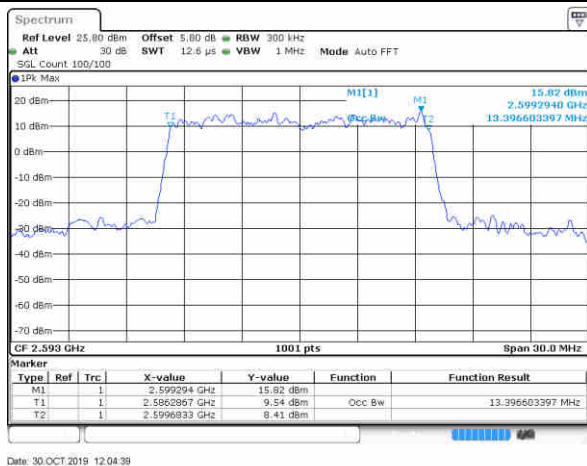
Lowest Channel / 15MHz / 64QAM



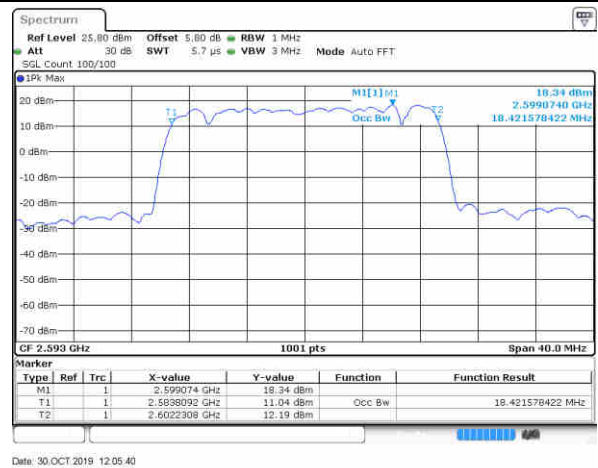
Lowest Channel / 20MHz / 64QAM



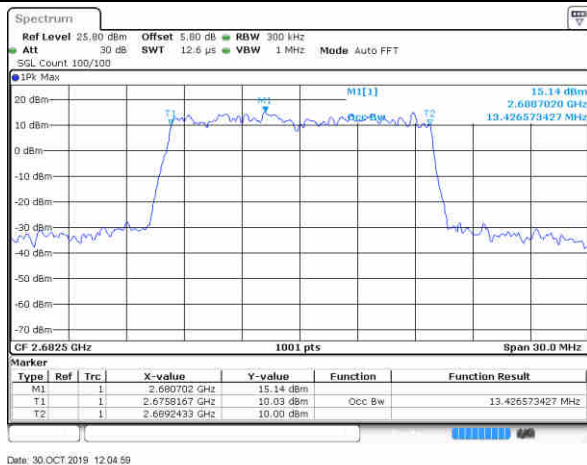
Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

