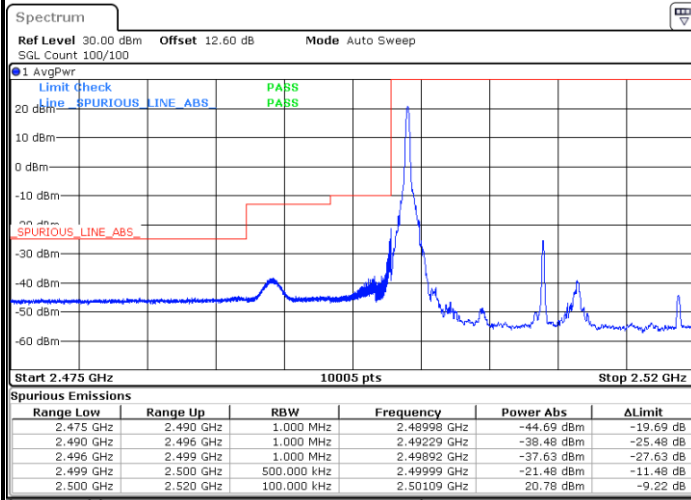


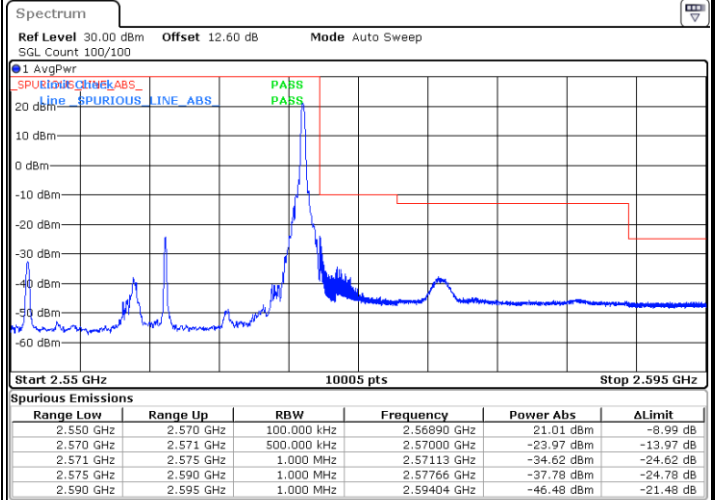


LTE Band 7 / 20MHz / QPSK

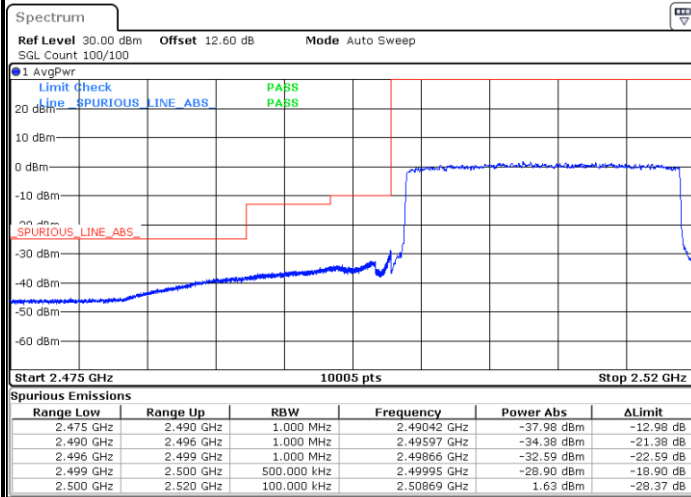
Lowest Band Edge / 1 RB



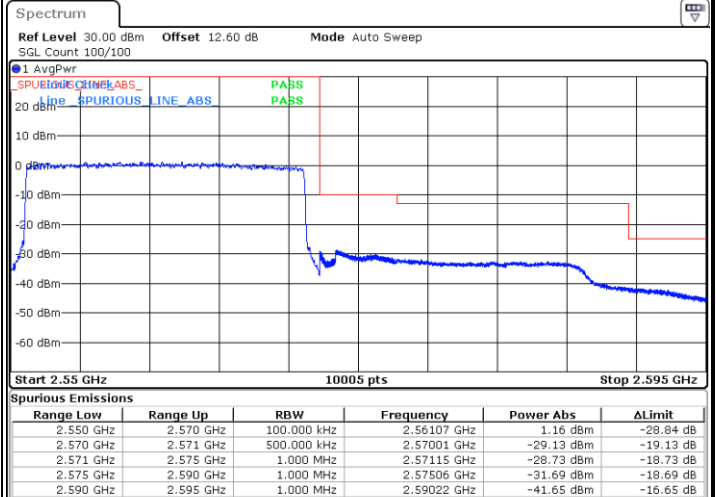
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



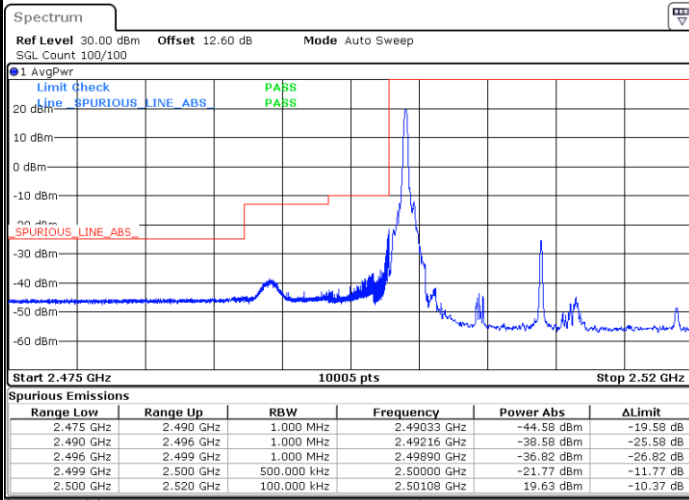
Highest Band Edge / Full RB



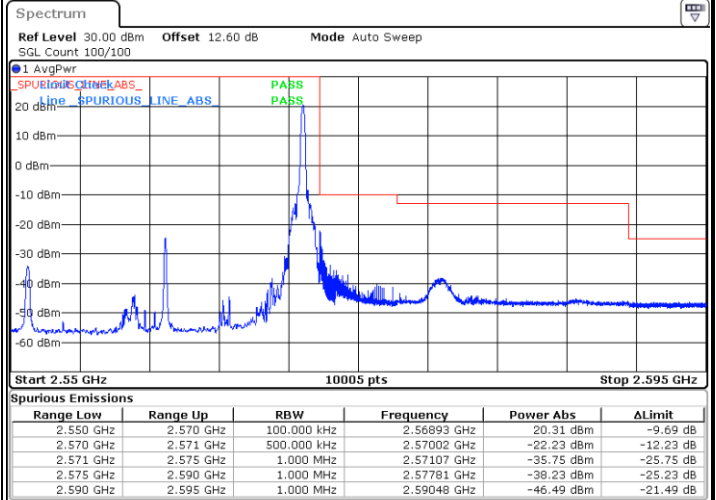


LTE Band 7 / 20MHz / 16QAM

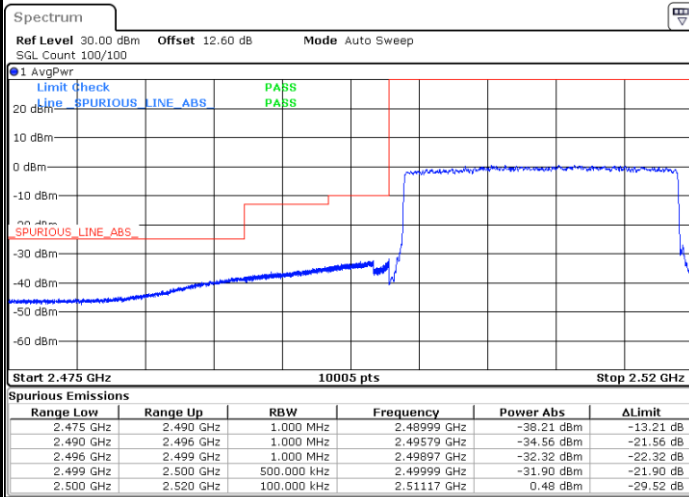
Lowest Band Edge / 1 RB



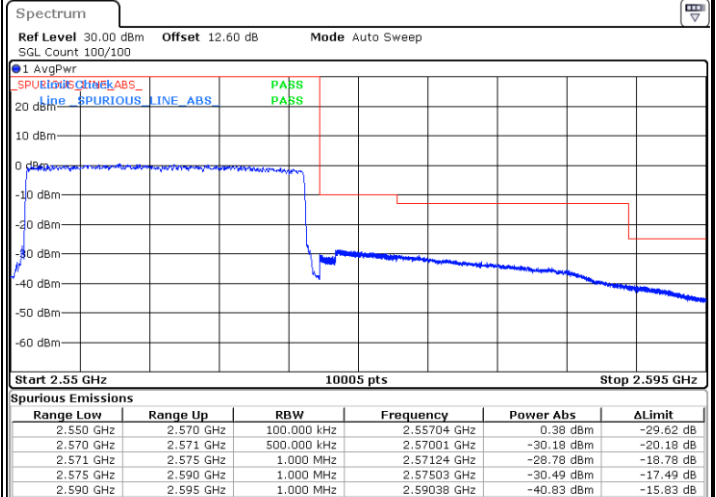
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



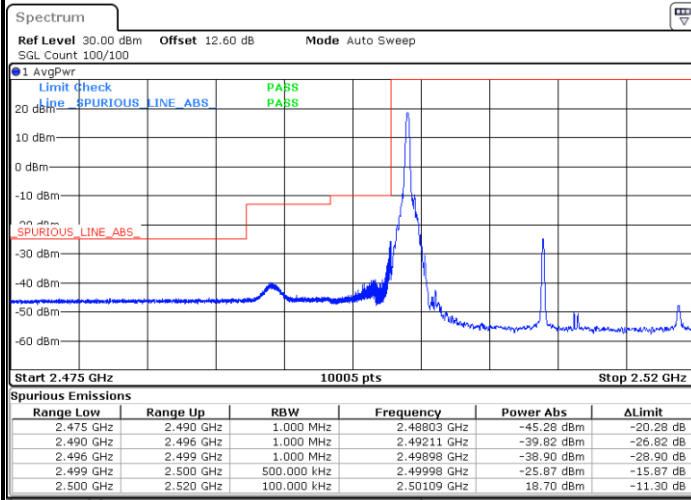
Highest Band Edge / Full RB



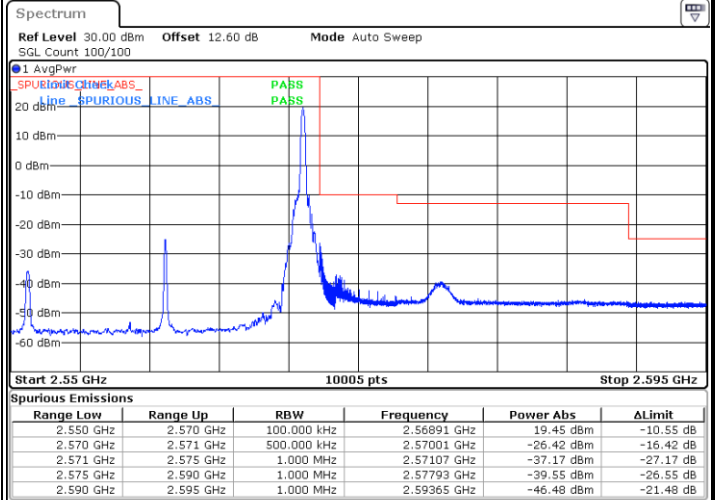


LTE Band 7 / 20MHz / 64QAM

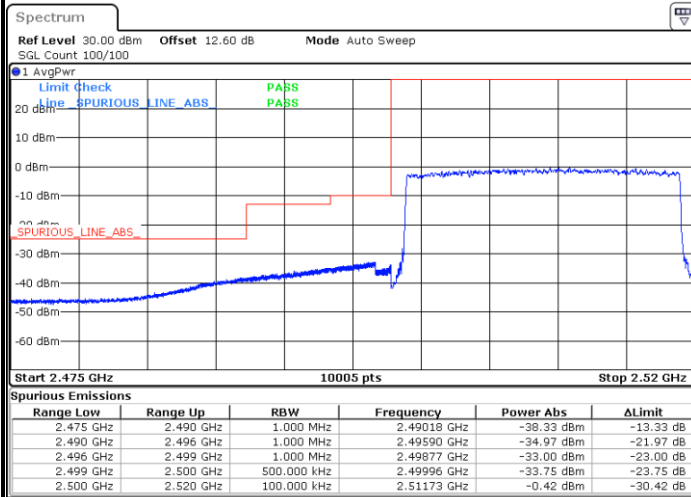
Lowest Band Edge / 1 RB



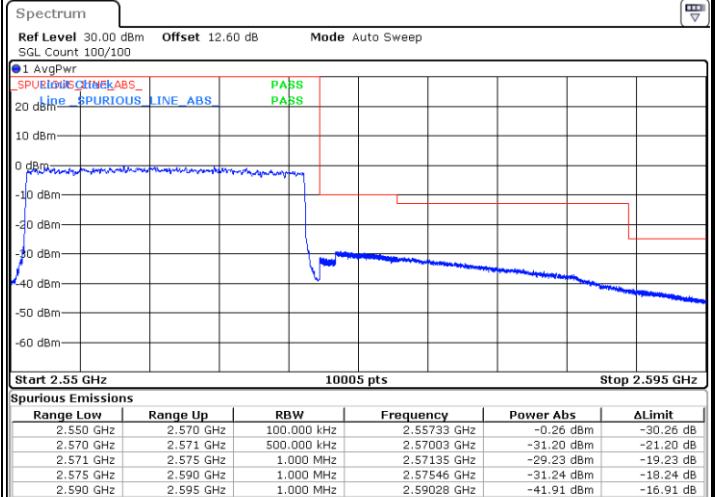
Highest Band Edge / 1 RB

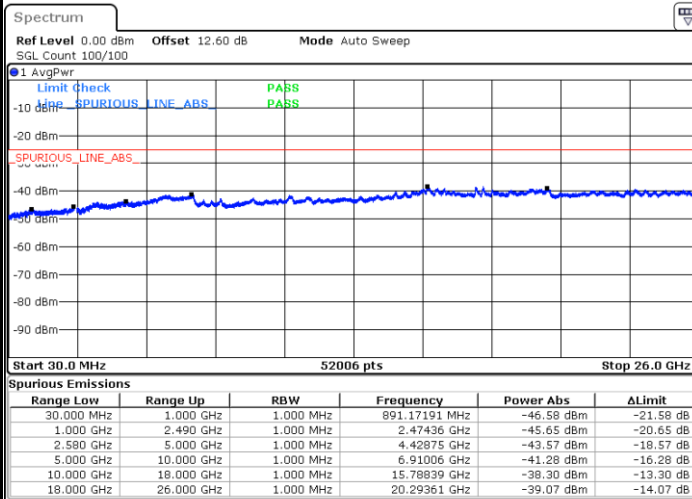
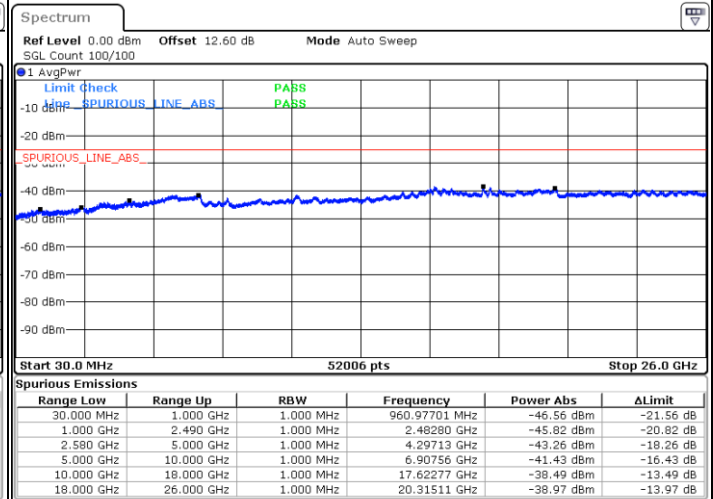
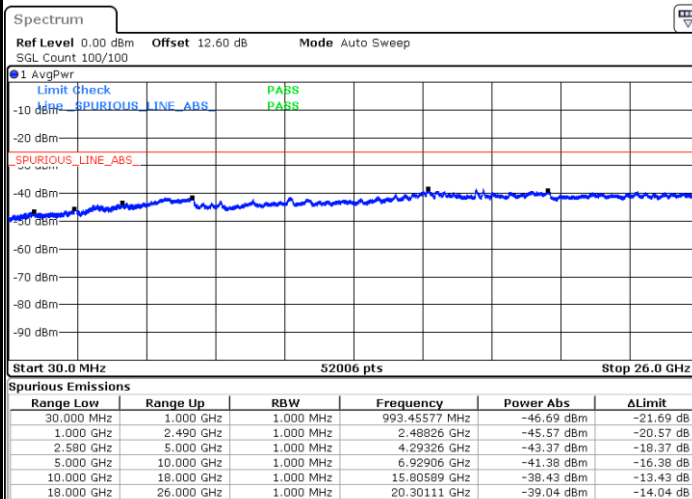
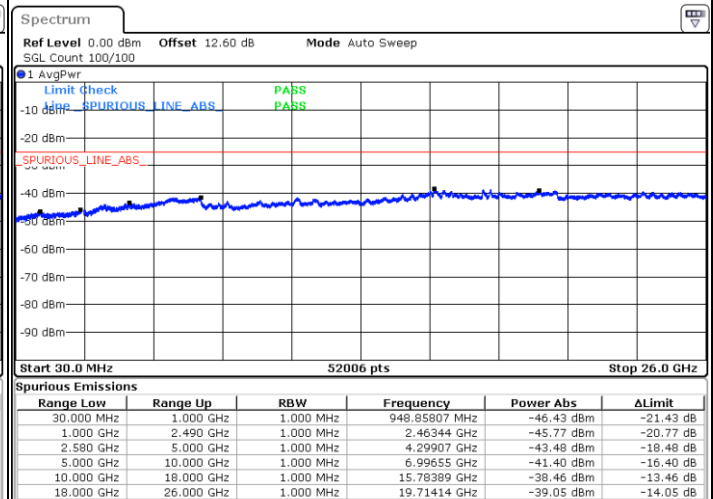


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

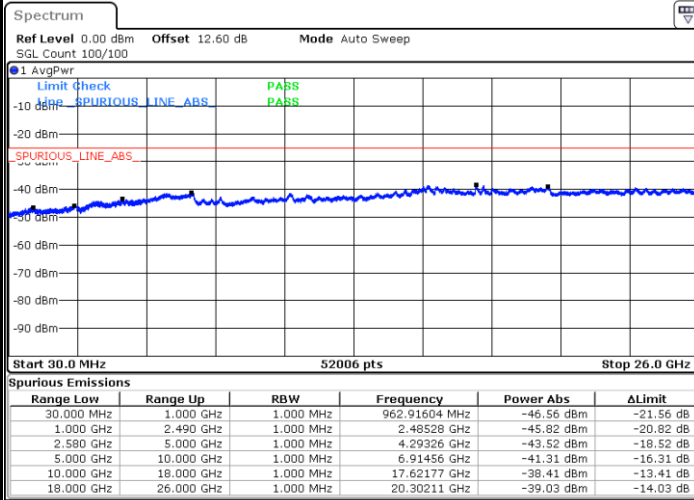


**Conducted Spurious Emission****LTE Band 7 / 5MHz****Lowest Channel / QPSK****Lowest Channel / 16QAM****Middle Channel / QPSK****Middle Channel / 16QAM**



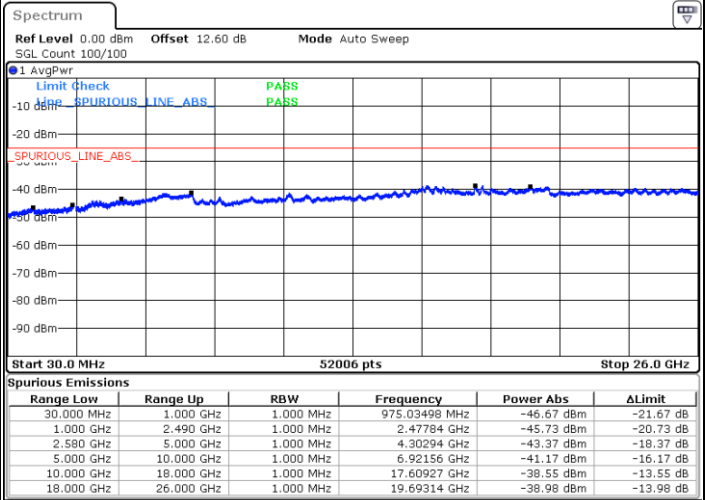
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 24.MAY.2020 11:05:16

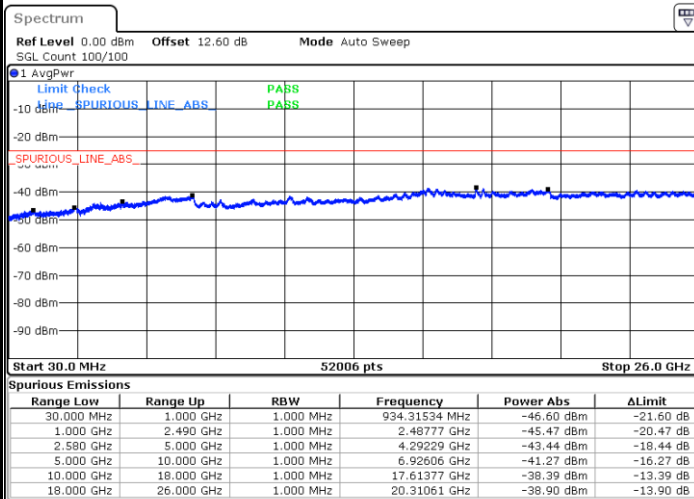
Highest Channel / 16QAM



Date: 24.MAY.2020 11:06:05

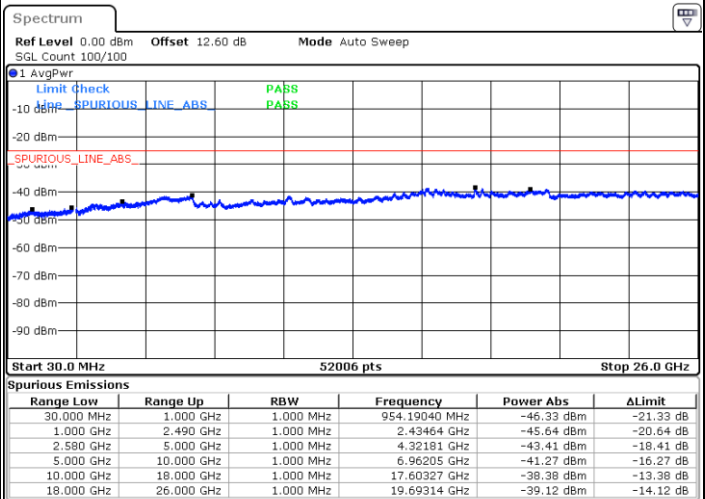
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 24.MAY.2020 11:19:27

Lowest Channel / 16QAM

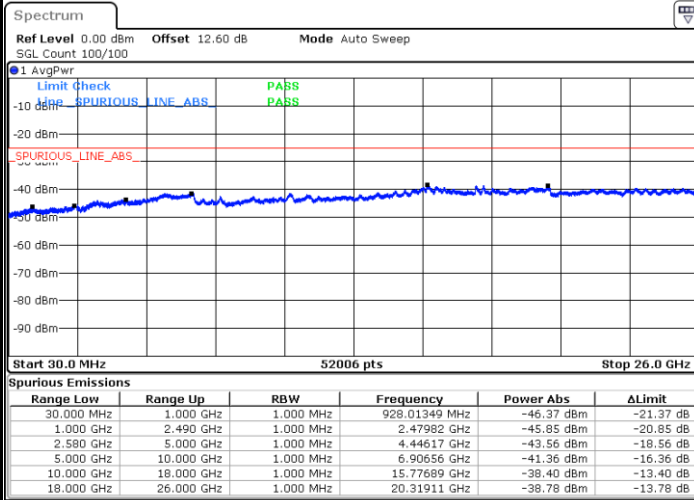


Date: 24.MAY.2020 11:20:17



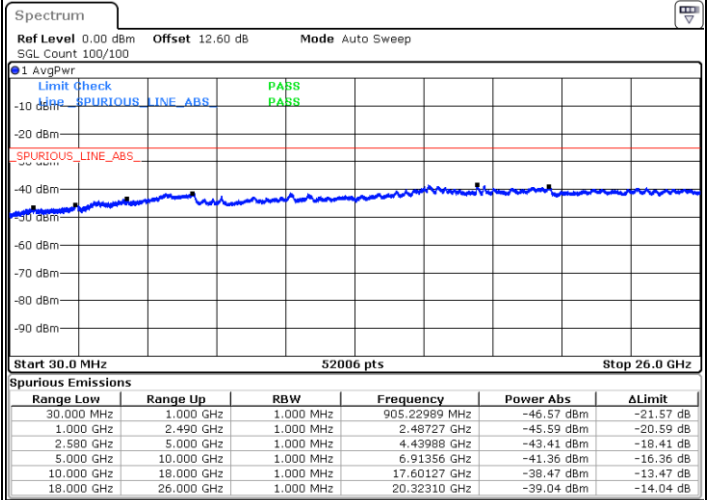
LTE Band 7 / 10MHz

Middle Channel / QPSK



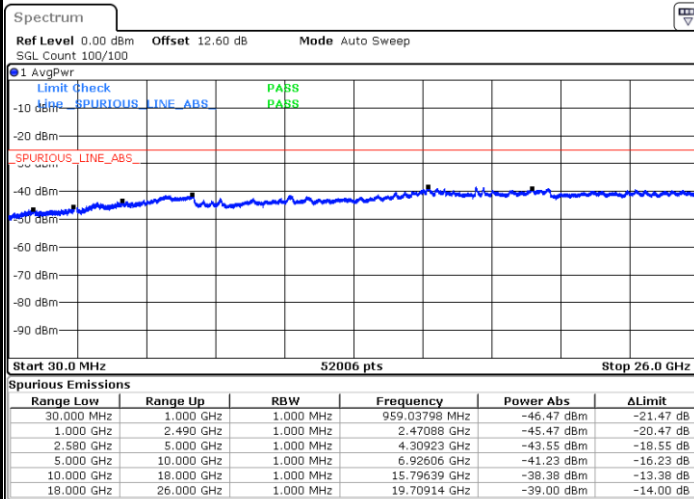
Date: 24.MAY.2020 11:21:52

Middle Channel / 16QAM



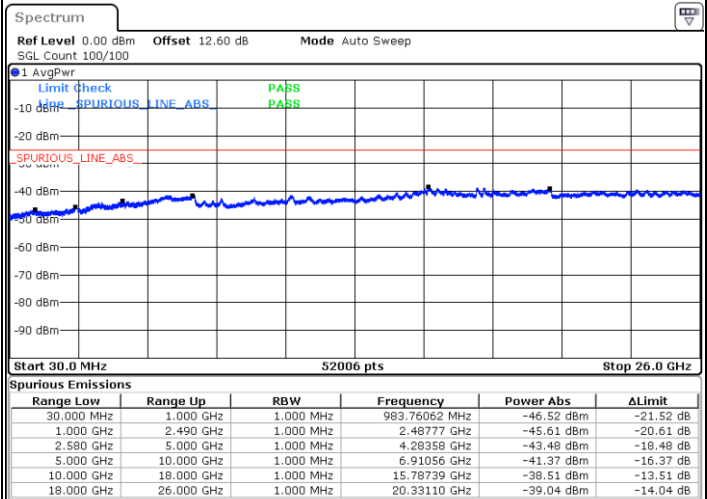
Date: 24.MAY.2020 11:22:41

Highest Channel / QPSK



Date: 24.MAY.2020 11:28:20

Highest Channel / 16QAM

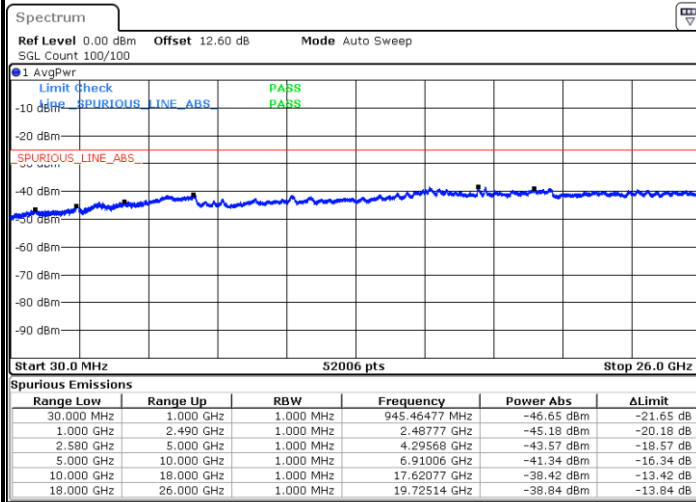


Date: 24.MAY.2020 11:29:10



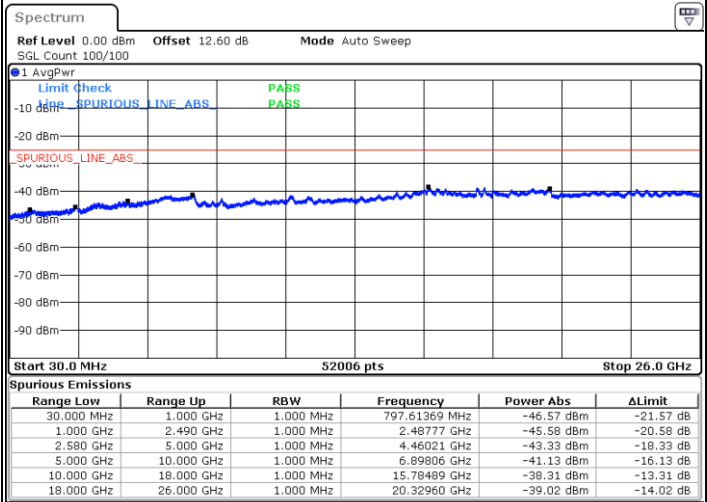
LTE Band 7 / 15MHz

Lowest Channel / QPSK



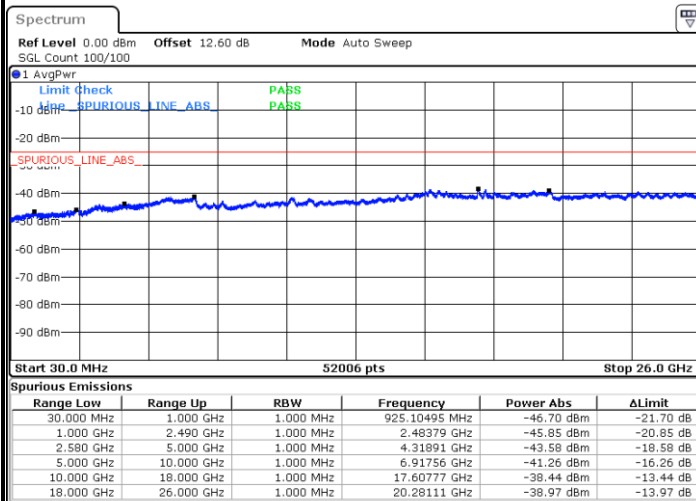
Date: 24.MAY.2020 11:42:33

Lowest Channel / 16QAM



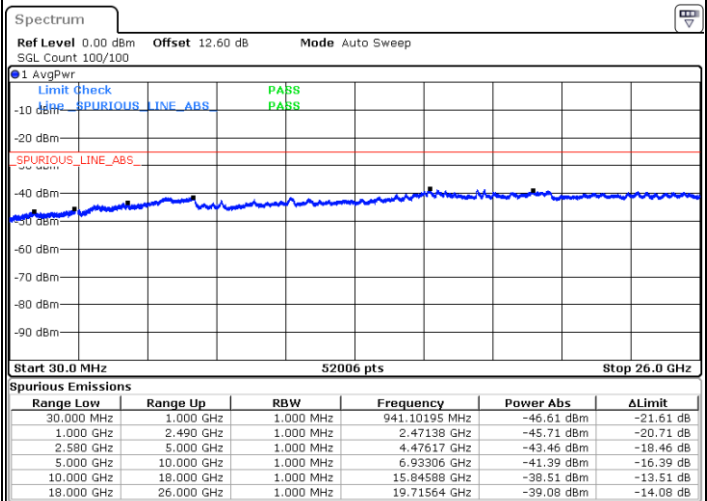
Date: 24.MAY.2020 11:43:23

Middle Channel / QPSK



Date: 24.MAY.2020 11:44:57

Middle Channel / 16QAM

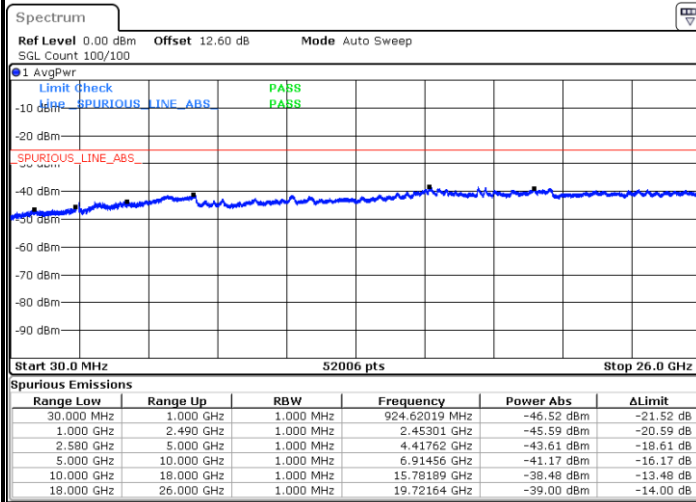


Date: 24.MAY.2020 11:45:46



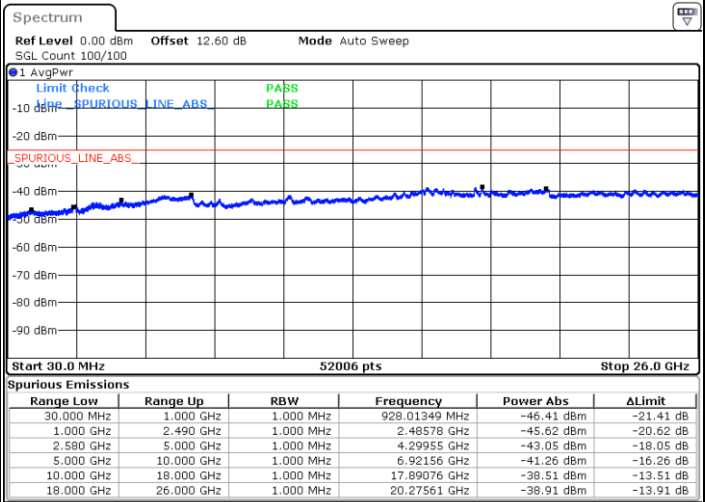
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 24.MAY.2020 11:51:25

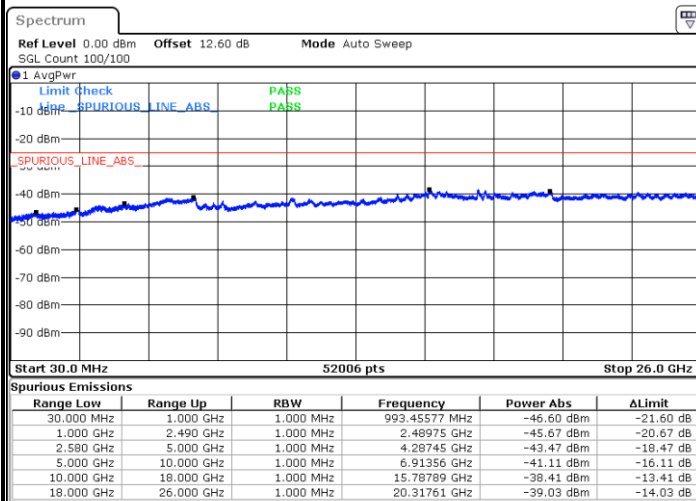
Highest Channel / 16QAM



Date: 24.MAY.2020 11:52:15

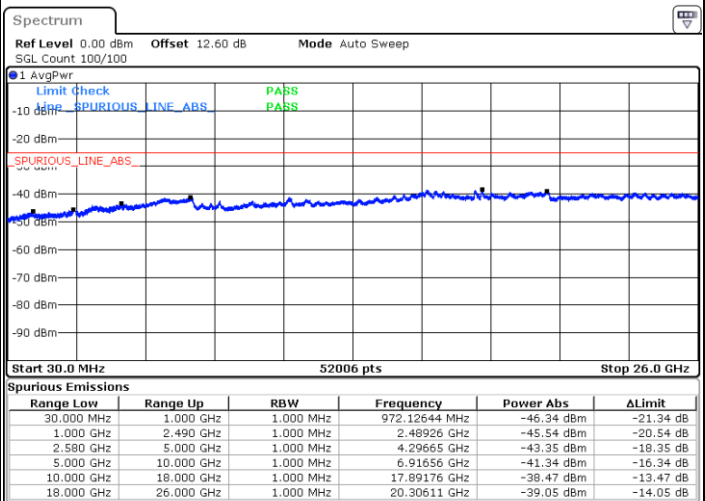
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 24.MAY.2020 12:05:35

Lowest Channel / 16QAM

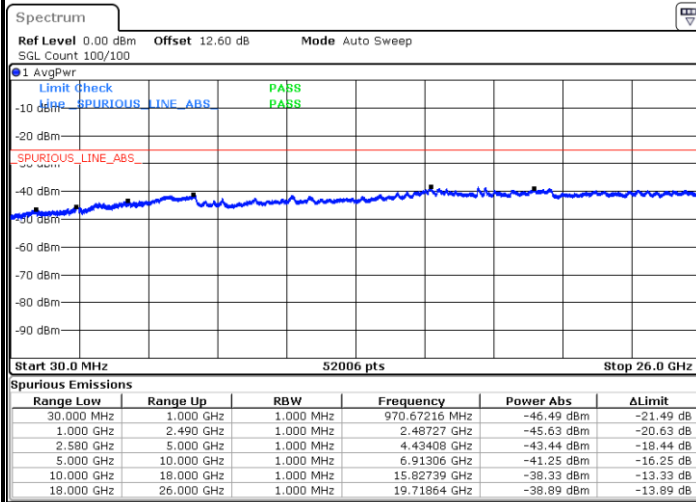


Date: 24.MAY.2020 12:06:25



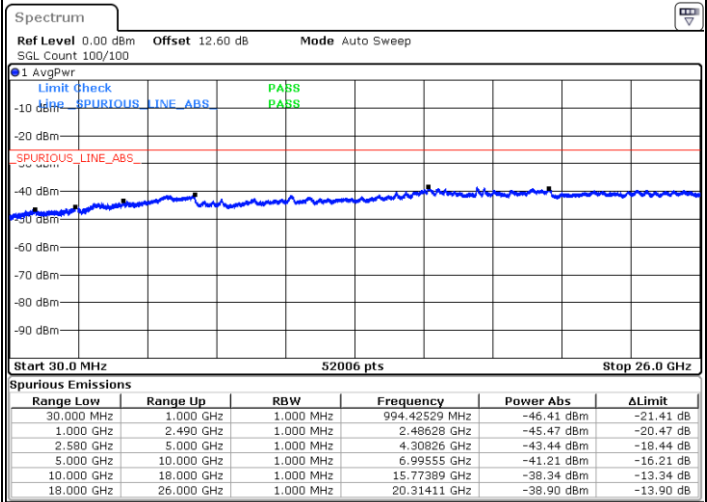
LTE Band 7 / 20MHz

Middle Channel / QPSK



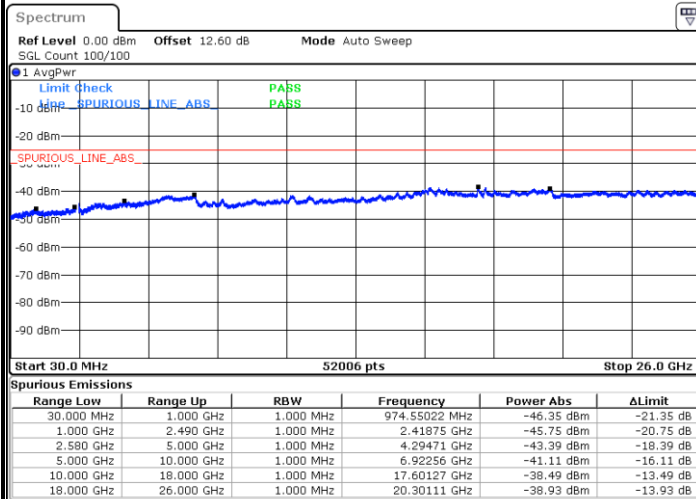
Date: 24.MAY.2020 12:08:00

Middle Channel / 16QAM



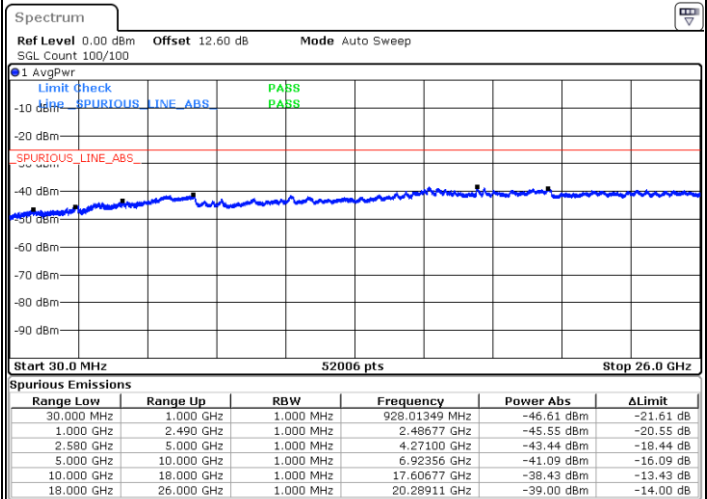
Date: 24.MAY.2020 12:08:50

Highest Channel / QPSK



Date: 24.MAY.2020 12:14:30

Highest Channel / 16QAM

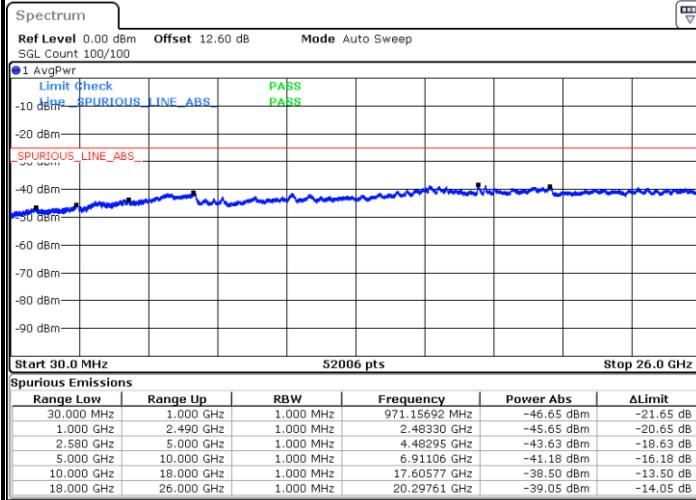


Date: 24.MAY.2020 12:15:19



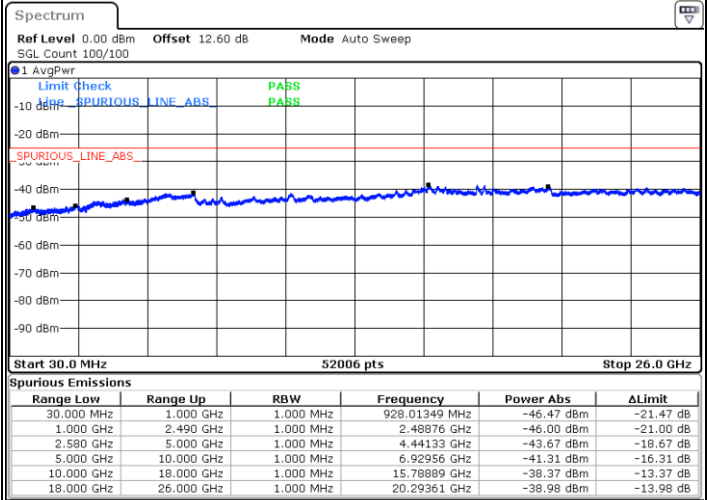
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



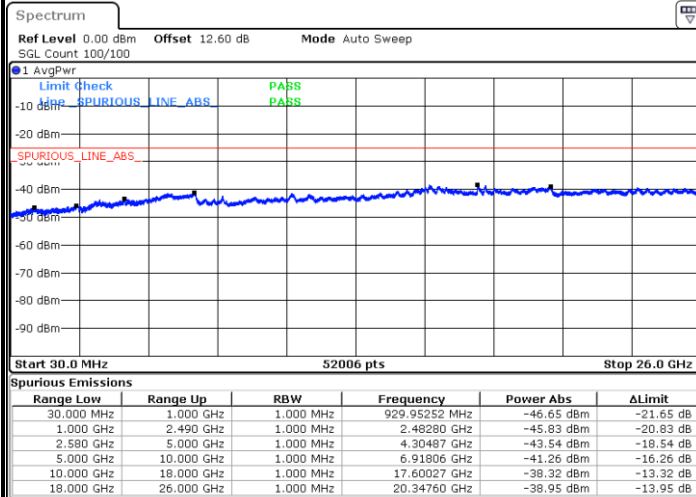
Date: 24.MAY.2020 11:09:21

Middle Channel / 64QAM



Date: 24.MAY.2020 11:10:33

Highest Channel / 64QAM

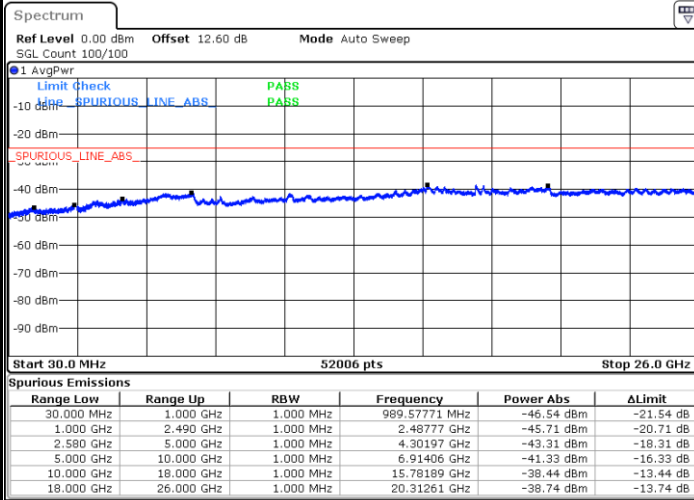


Date: 24.MAY.2020 11:13:47



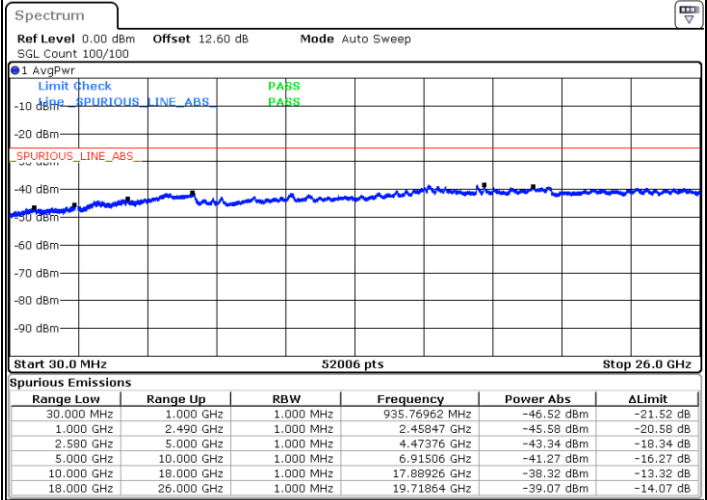
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



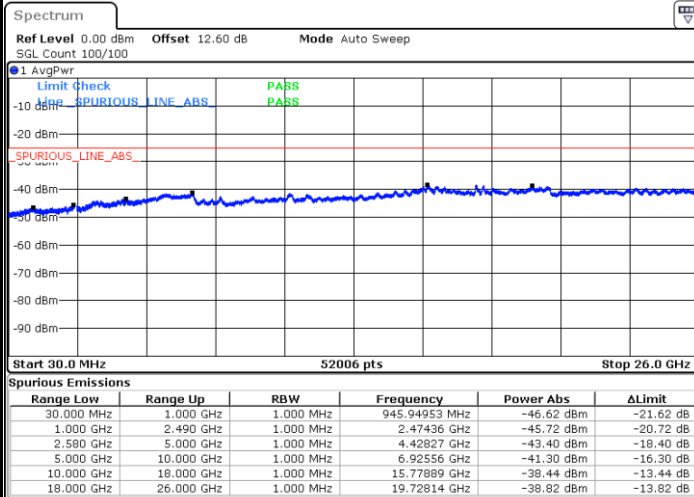
Date: 24.MAY.2020 11:32:24

Middle Channel / 64QAM



Date: 24.MAY.2020 11:33:37

Highest Channel / 64QAM

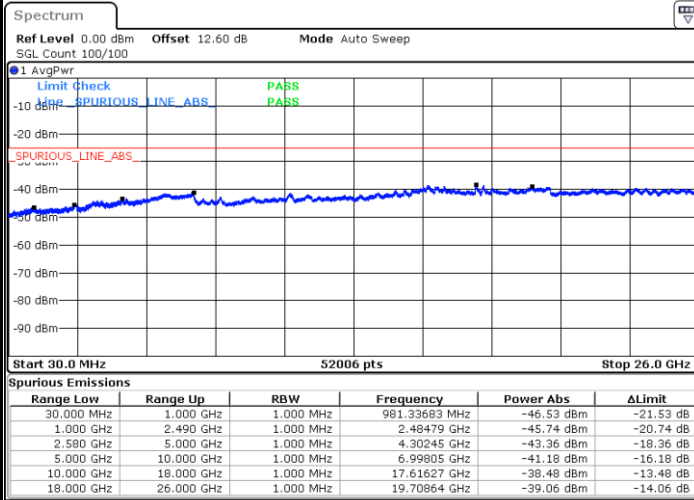


Date: 24.MAY.2020 11:36:51



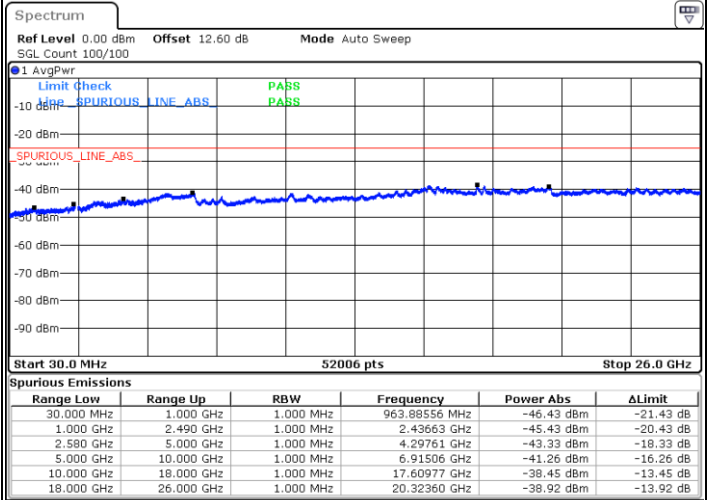
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



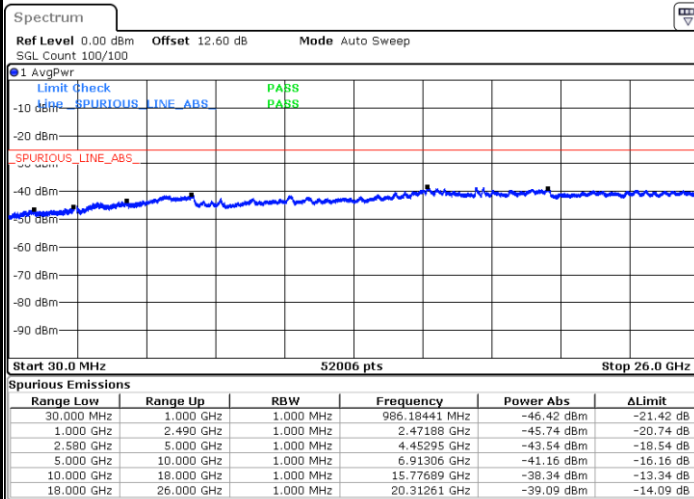
Date: 24.MAY.2020 11:55:29

Middle Channel / 64QAM



Date: 24.MAY.2020 11:56:41

Highest Channel / 64QAM

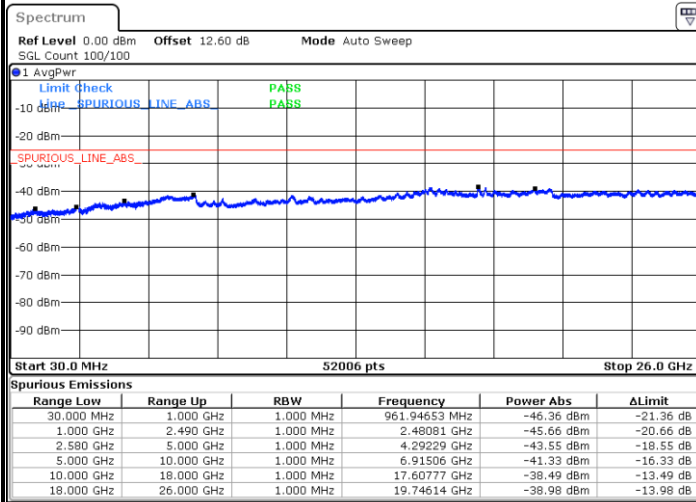


Date: 24.MAY.2020 11:59:55



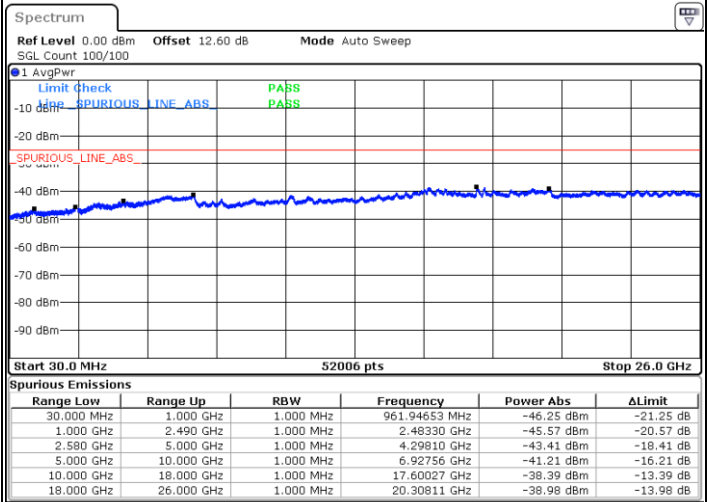
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



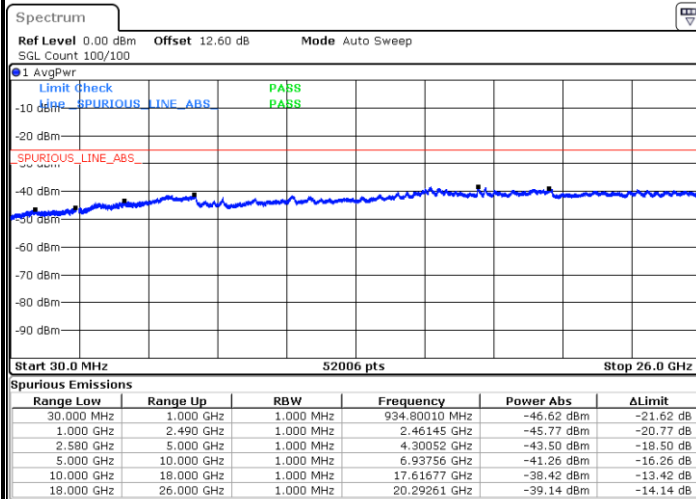
Date: 24.MAY.2020 12:18:34

Middle Channel / 64QAM



Date: 24.MAY.2020 12:19:46

Highest Channel / 64QAM



Date: 24.MAY.2020 12:22:59

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	0.0075	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0071	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0082	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 7C

26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.67	25.23	30.57	34.83
Middle CH	29.85	25.23	30.51	34.76
Highest CH	29.79	25.23	30.51	34.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.97	35.04	39.88	-
Middle CH	30.09	34.97	39.80	-
Highest CH	30.09	35.04	39.96	-

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.67	25.13	30.51	34.90
Middle CH	29.79	25.18	30.51	34.90
Highest CH	29.79	25.28	30.63	34.90
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.09	34.76	39.80	-
Middle CH	29.97	34.83	39.96	-
Highest CH	30.09	34.76	39.80	-

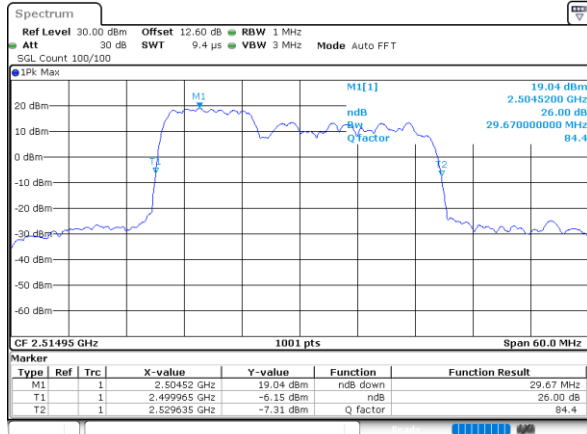
Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.91	25.23	30.39	34.76
Middle CH	29.79	25.23	30.69	34.83
Highest CH	29.85	25.28	30.57	34.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.03	34.83	39.64	-
Middle CH	30.15	34.83	39.88	-
Highest CH	29.85	34.83	39.64	-



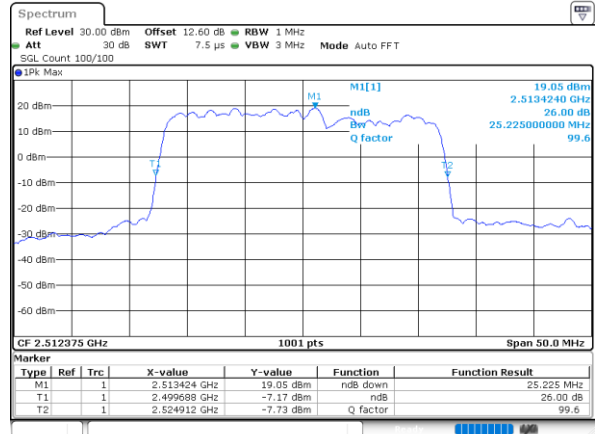
LTE Band 7C

QPSK

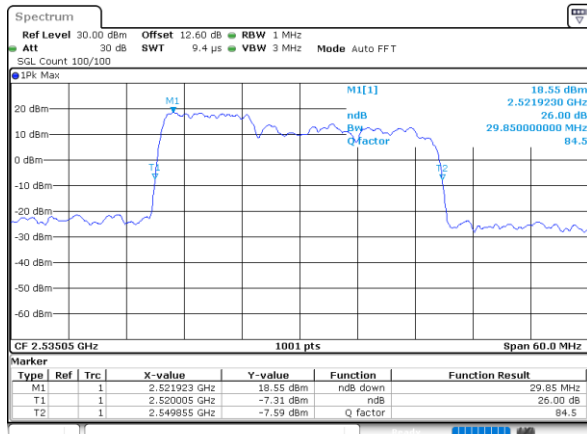
Lowest Channel / 10MHz+20MHz



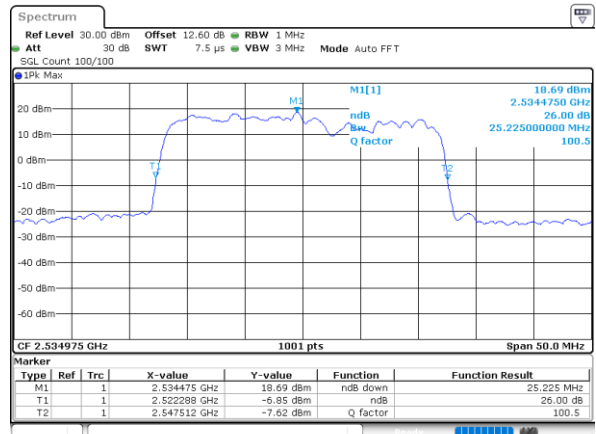
Lowest Channel / 15MHz+10MHz



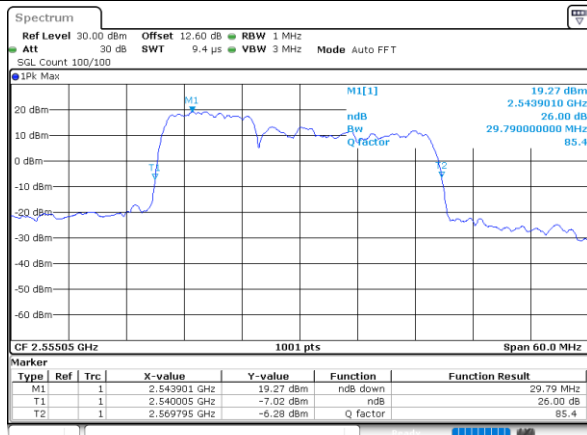
Middle Channel / 10MHz+20MHz



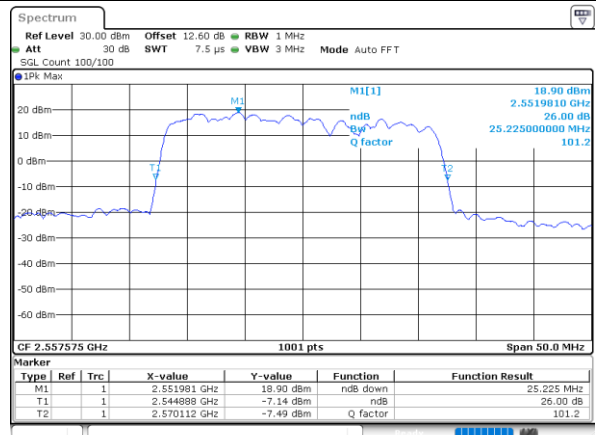
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

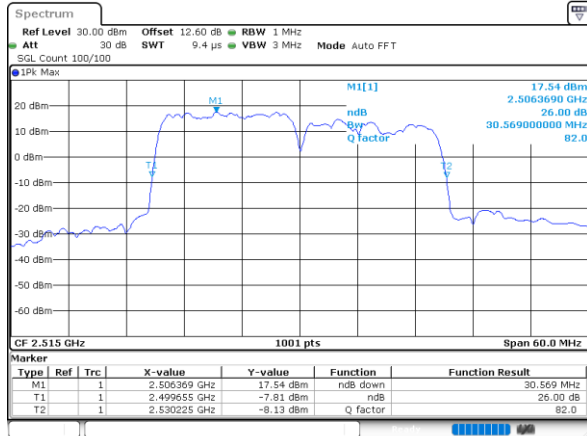




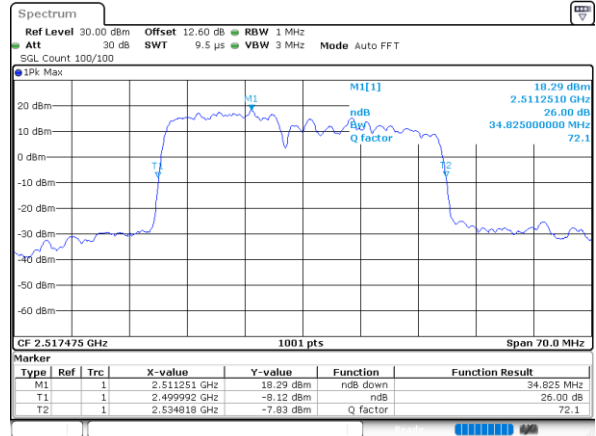
LTE Band 7C

QPSK

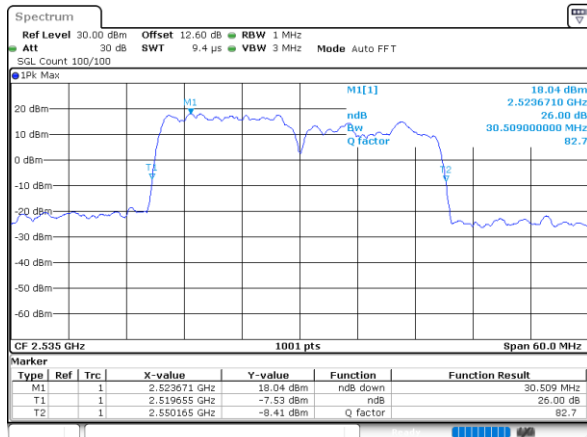
Lowest Channel / 15MHz+15MHz



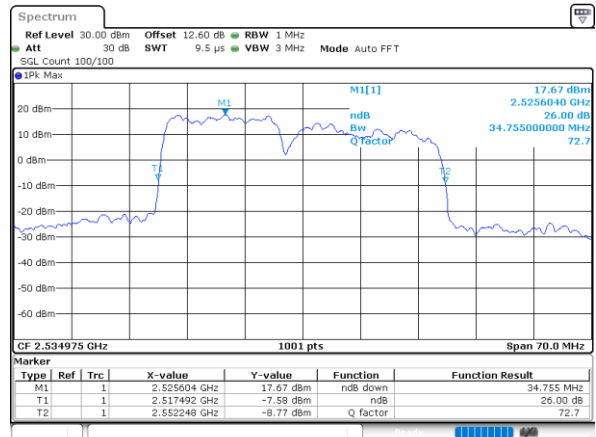
Lowest Channel / 15MHz+20MHz



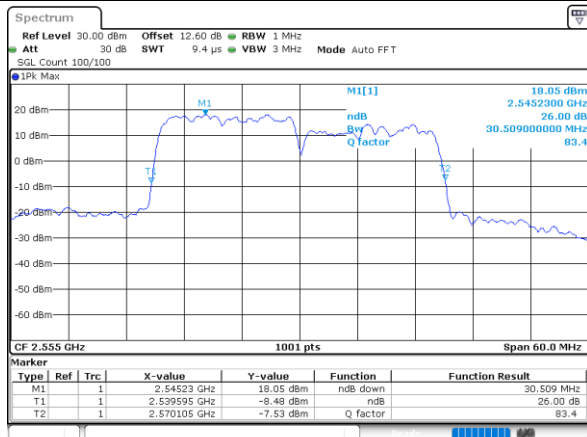
Middle Channel / 15MHz+15MHz



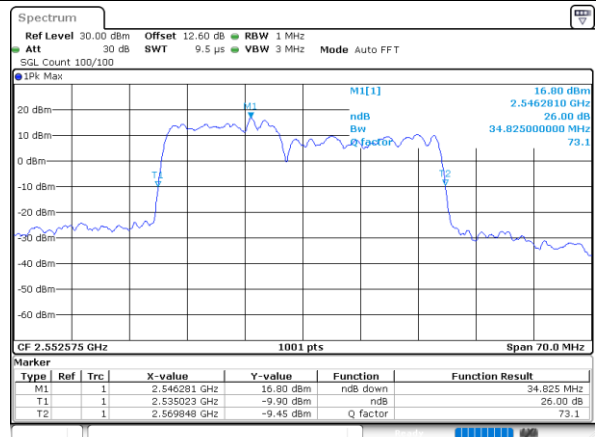
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

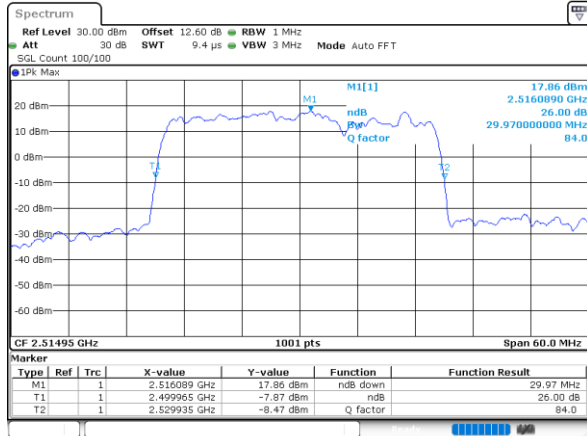




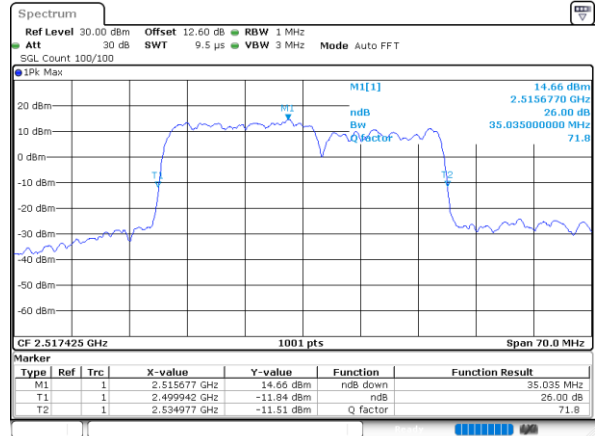
LTE Band 7C

QPSK

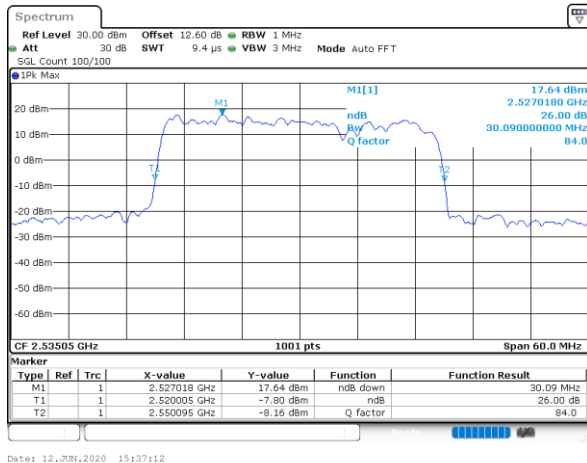
Lowest Channel / 20MHz+10MHz



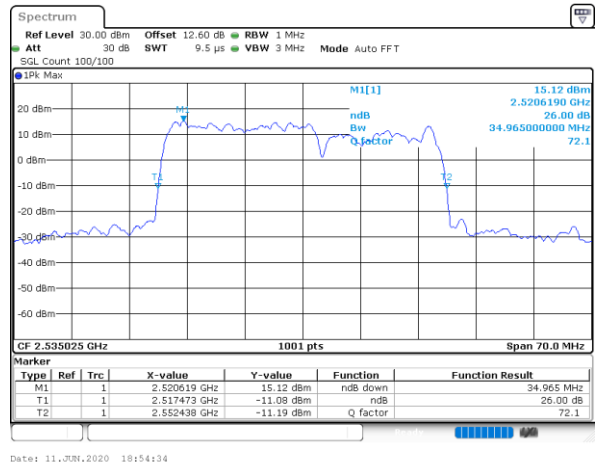
Lowest Channel / 20MHz+15MHz



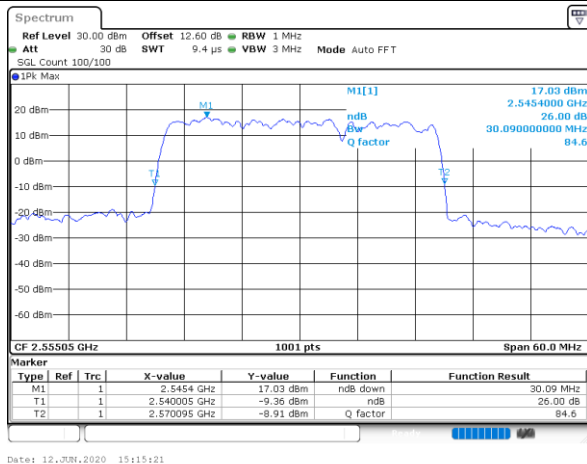
Middle Channel / 20MHz+10MHz



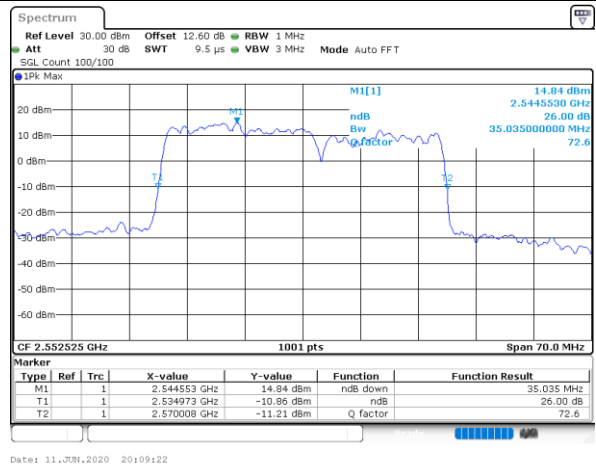
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



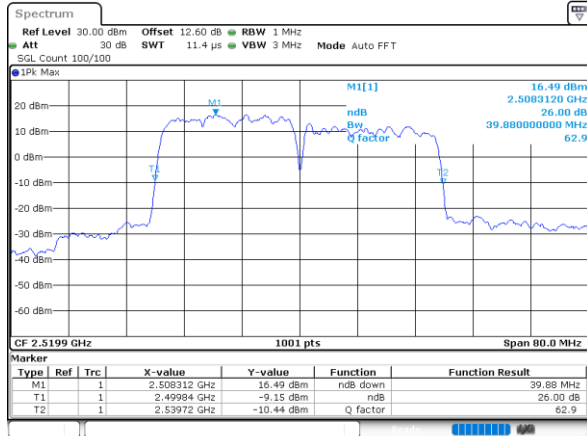


LTE Band 7C

QPSK

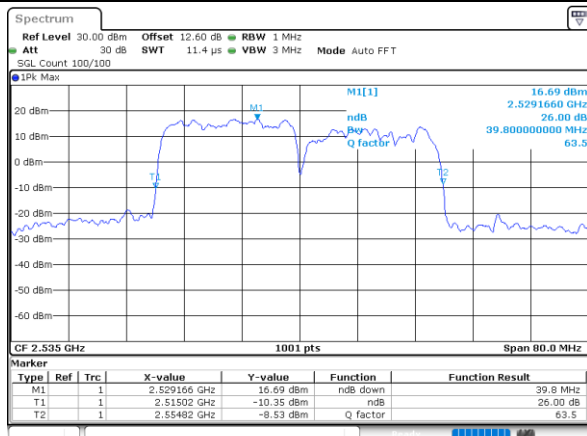
Lowest Channel / 20MHz+20MHz

N/A



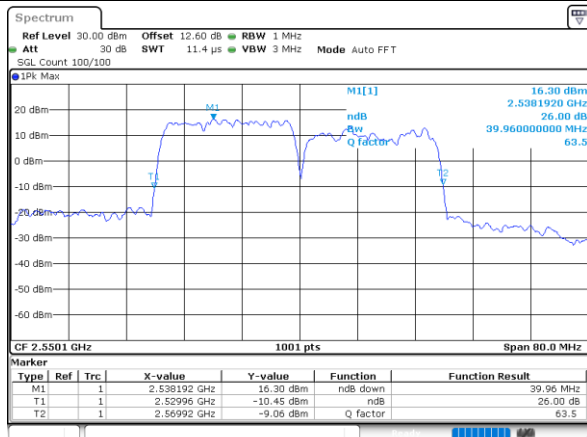
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

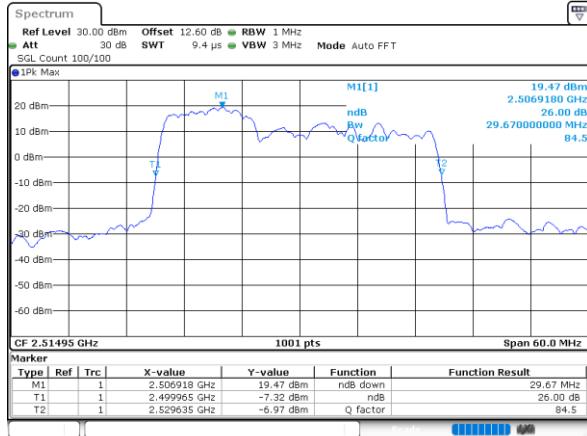




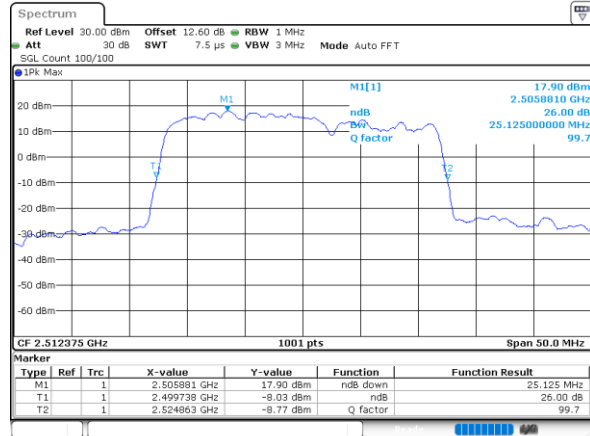
LTE Band 7C

16QAM

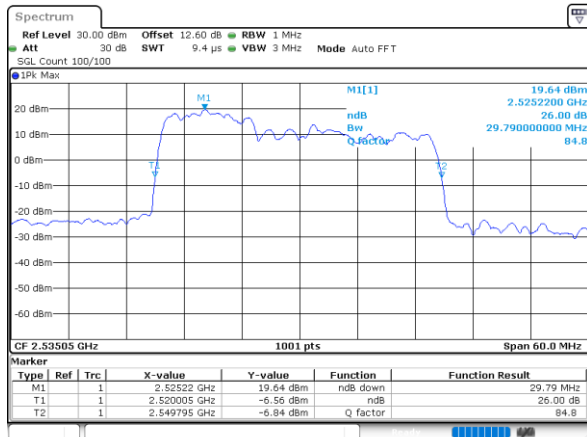
Lowest Channel / 10MHz+20MHz



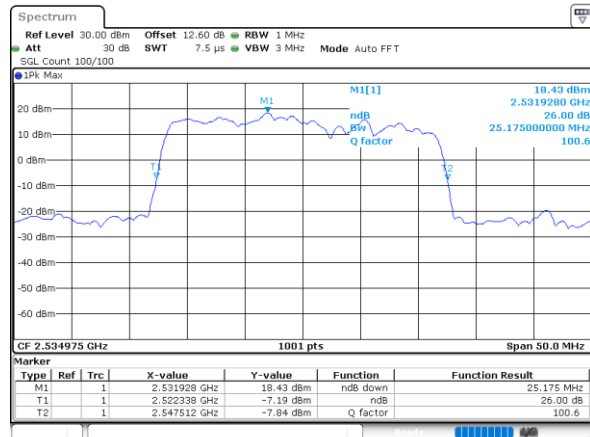
Lowest Channel / 15MHz+10MHz



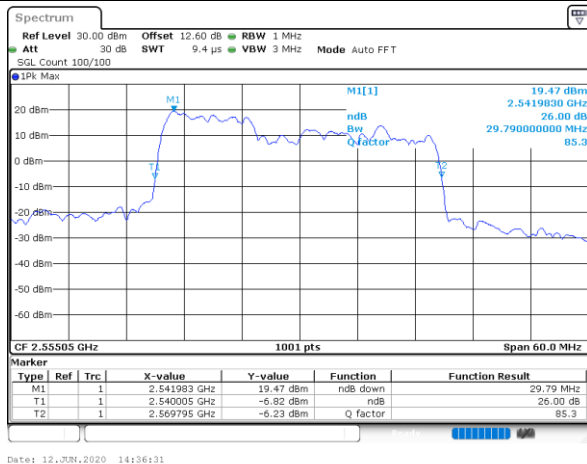
Middle Channel / 10MHz+20MHz



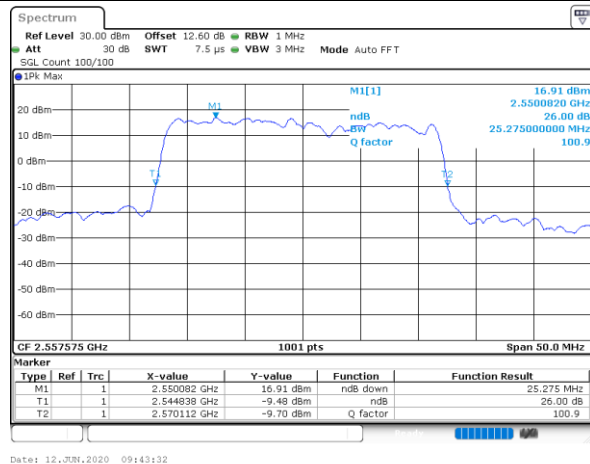
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

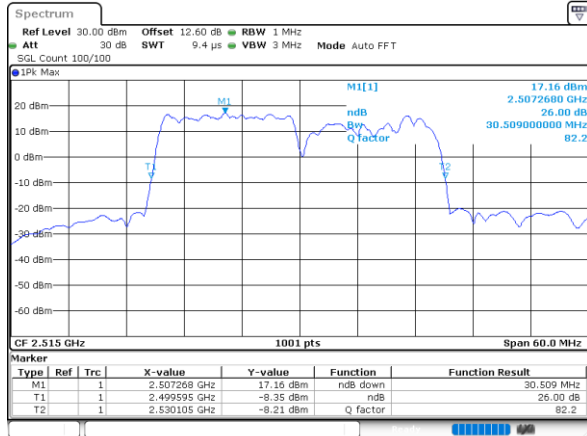




LTE Band 7C

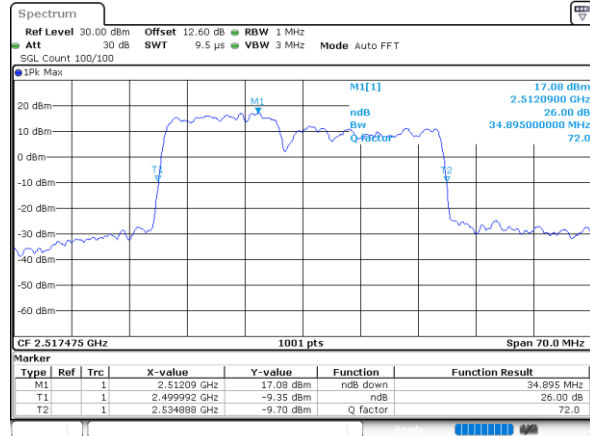
16QAM

Lowest Channel / 15MHz+15MHz



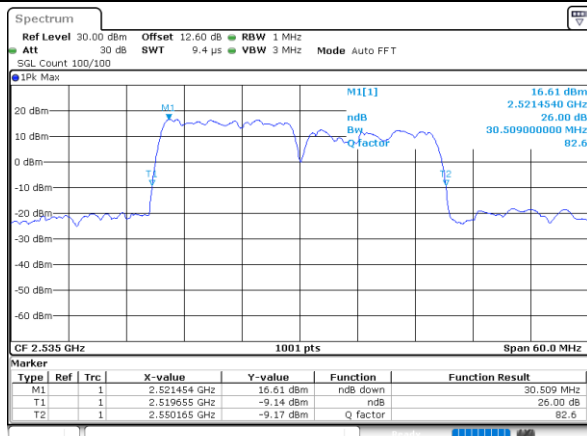
Date: 11.JUN.2020 21:14:51

Lowest Channel / 15MHz+20MHz



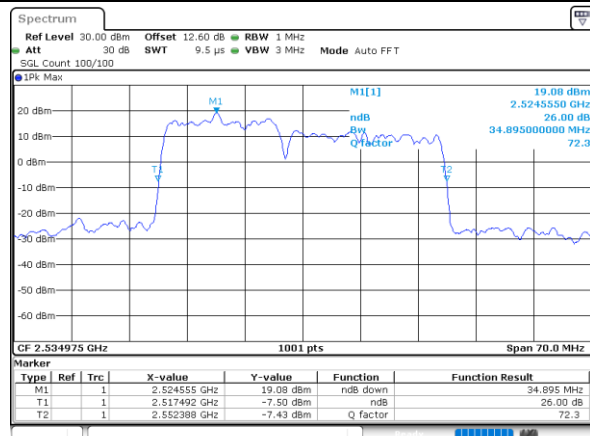
Date: 11.JUN.2020 19:12:47

Middle Channel / 15MHz+15MHz



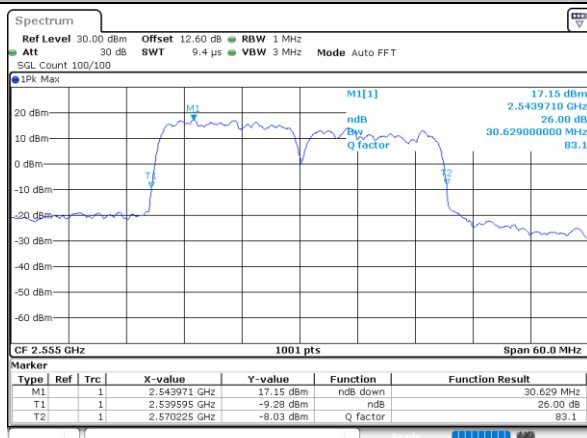
Date: 11.JUN.2020 21:43:40

Middle Channel / 15MHz+20MHz



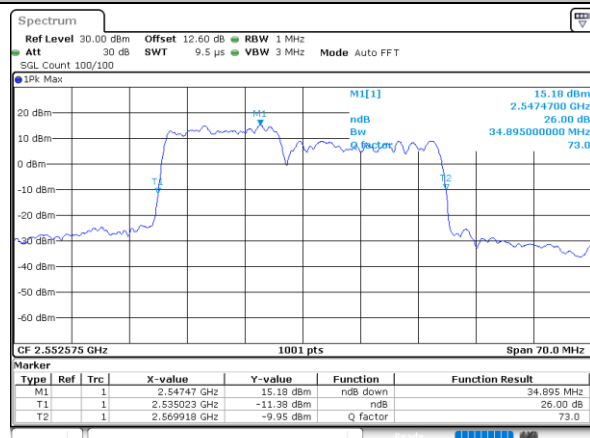
Date: 11.JUN.2020 19:33:37

Highest Channel / 15MHz+15MHz



Date: 11.JUN.2020 20:53:49

Highest Channel / 15MHz+20MHz



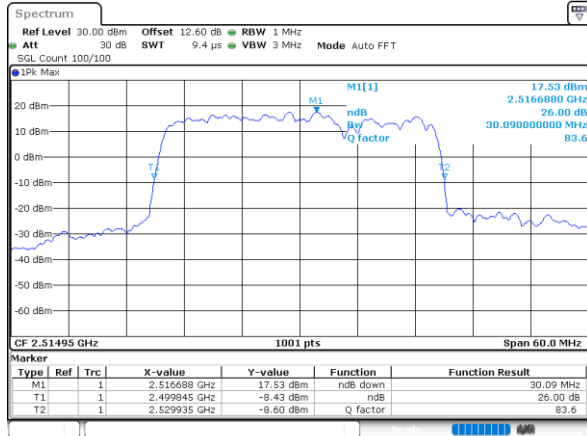
Date: 11.JUN.2020 19:47:41



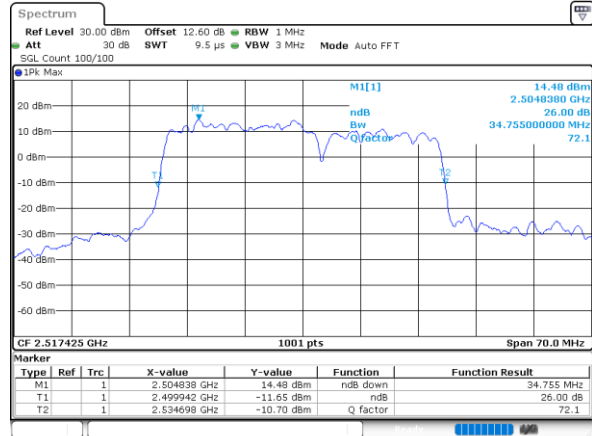
LTE Band 7C

16QAM

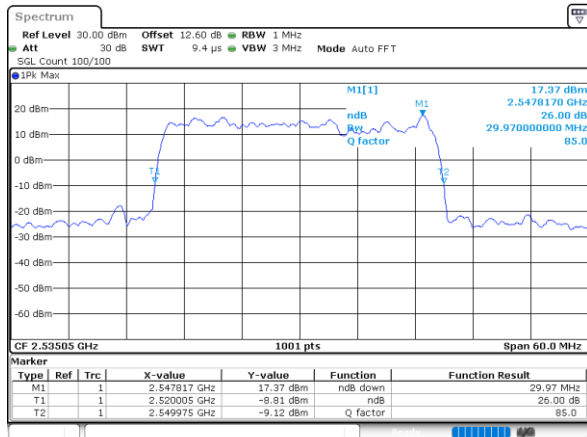
Lowest Channel / 20MHz+10MHz



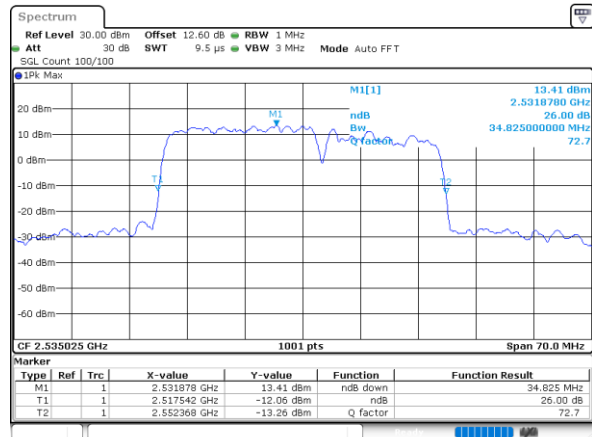
Lowest Channel / 20MHz+15MHz



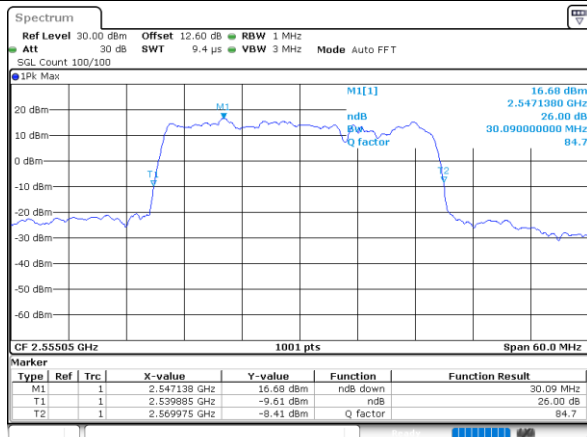
Middle Channel / 20MHz+10MHz



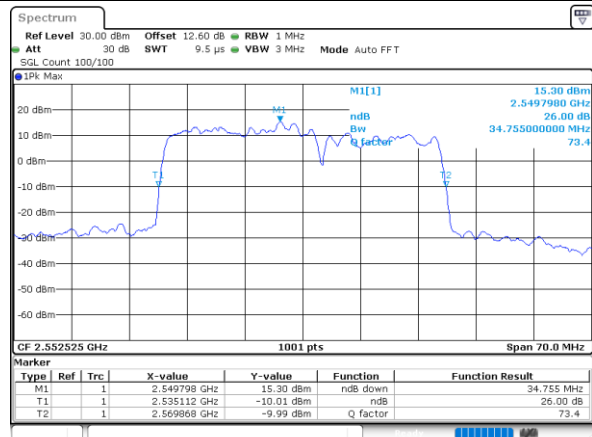
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



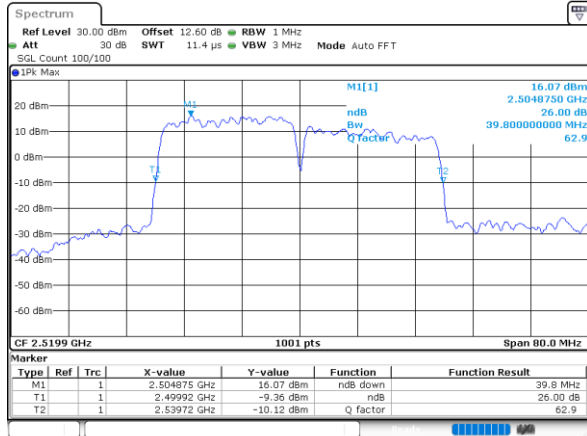


LTE Band 7C

16QAM

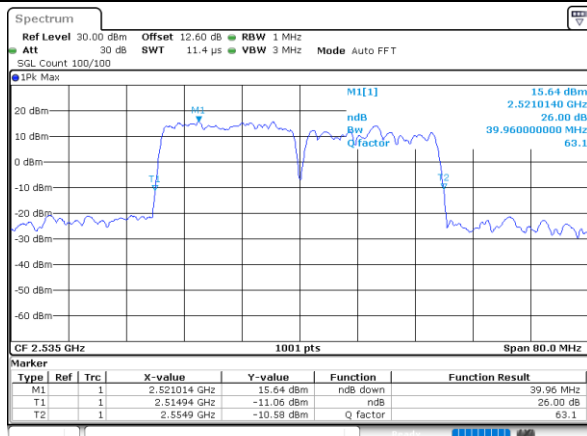
Lowest Channel / 20MHz+20MHz

N/A



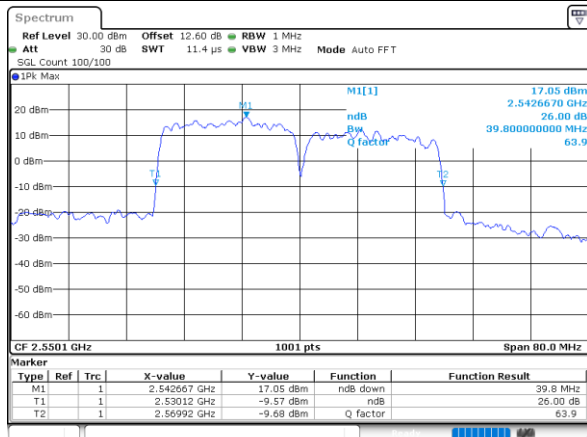
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

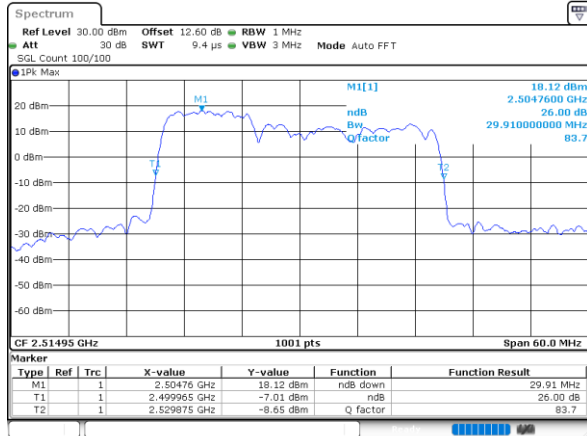




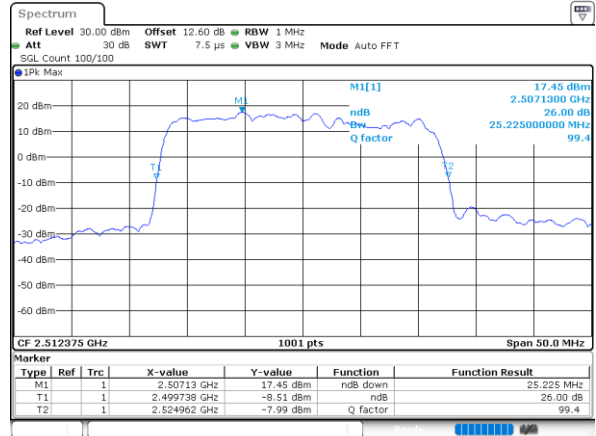
LTE Band 7C

64QAM

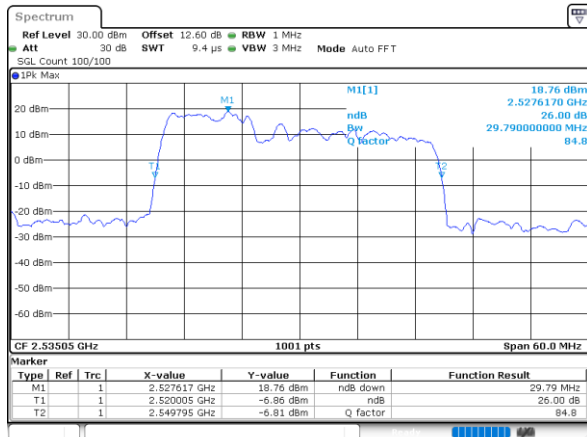
Lowest Channel / 10MHz+20MHz



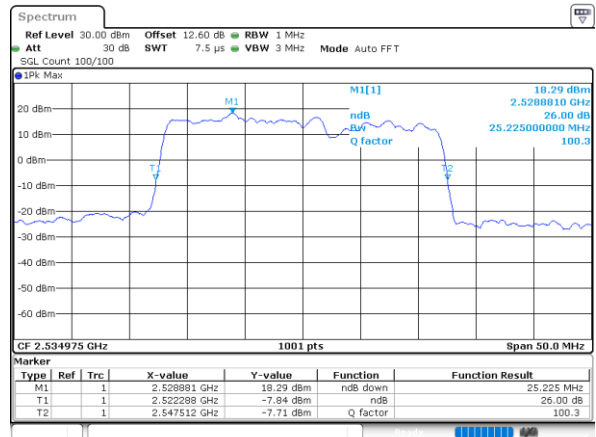
Lowest Channel / 15MHz+10MHz



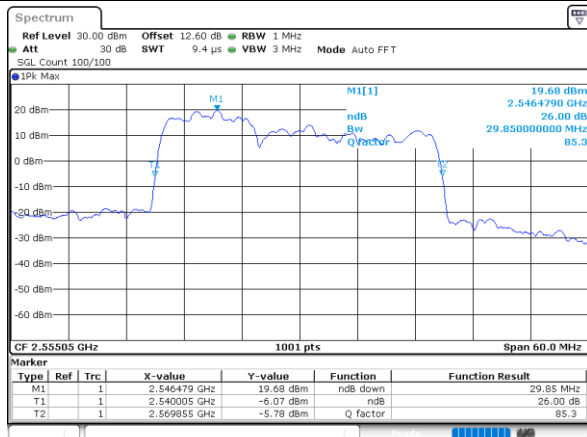
Middle Channel / 10MHz+20MHz



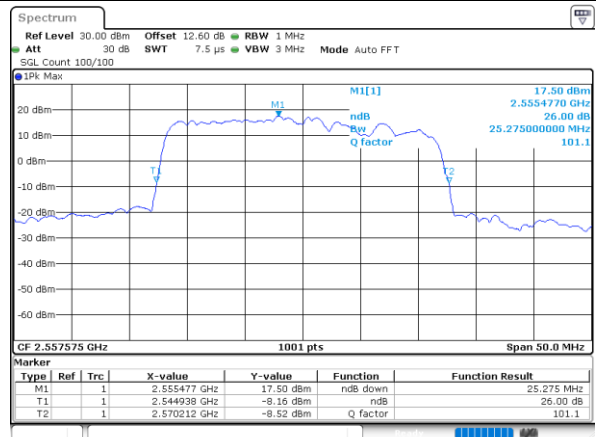
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

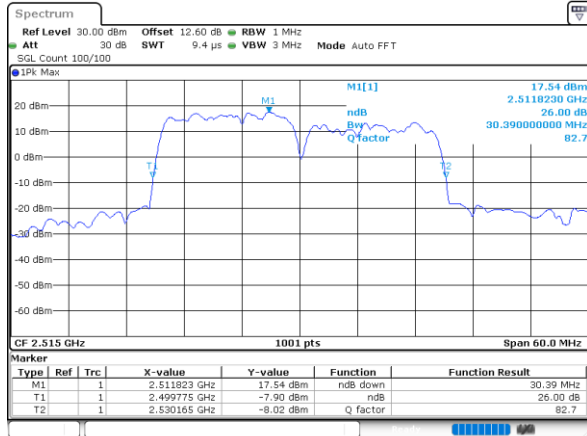




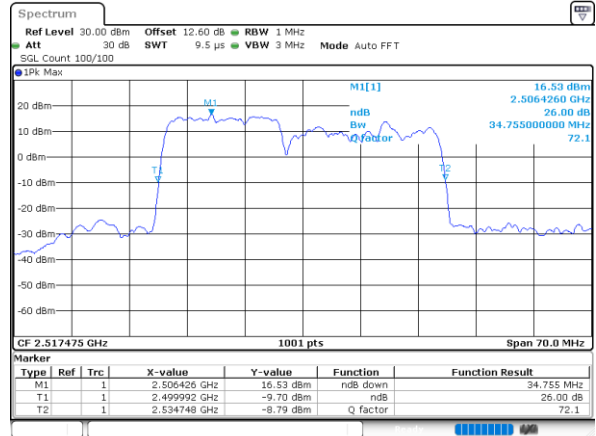
LTE Band 7C

64QAM

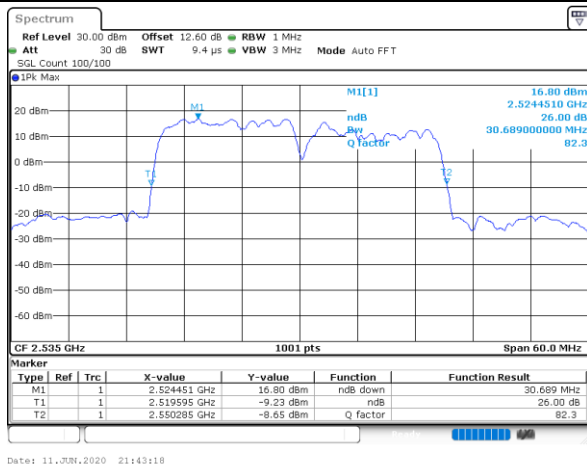
Lowest Channel / 15MHz+15MHz



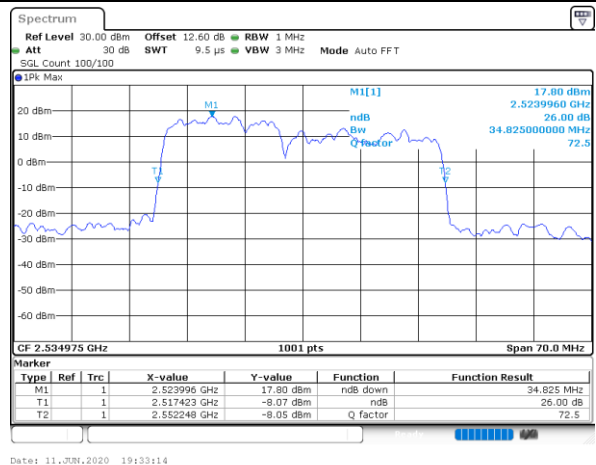
Lowest Channel / 15MHz+20MHz



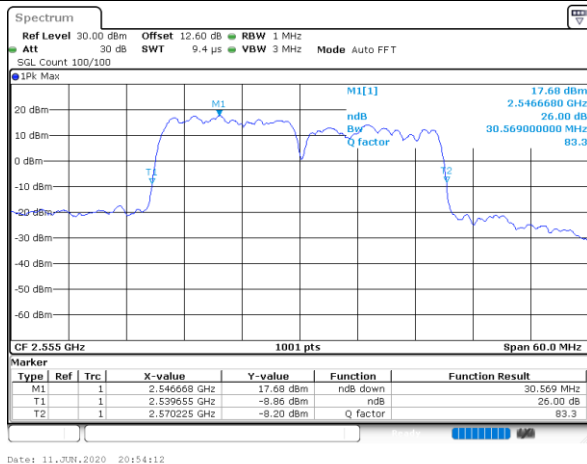
Middle Channel / 15MHz+15MHz



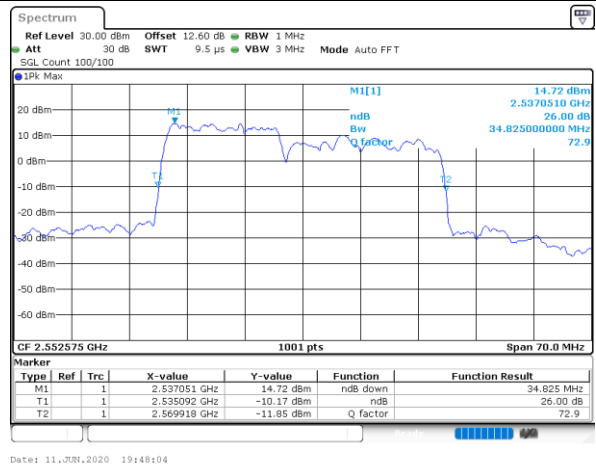
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

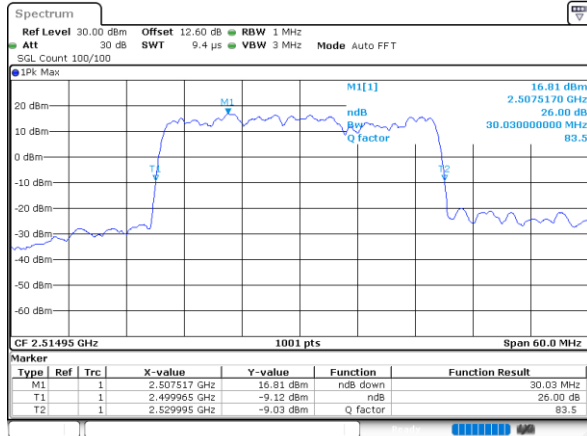




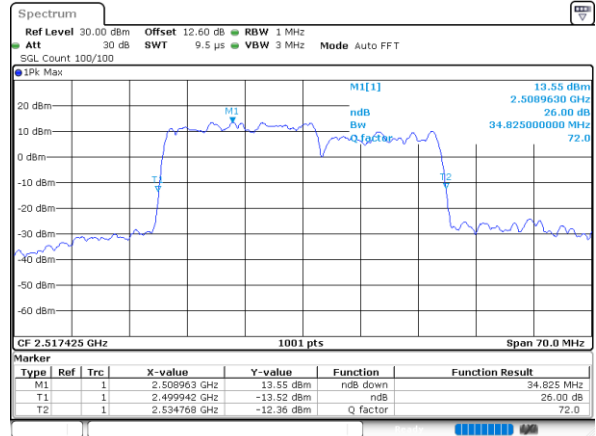
LTE Band 7C

64QAM

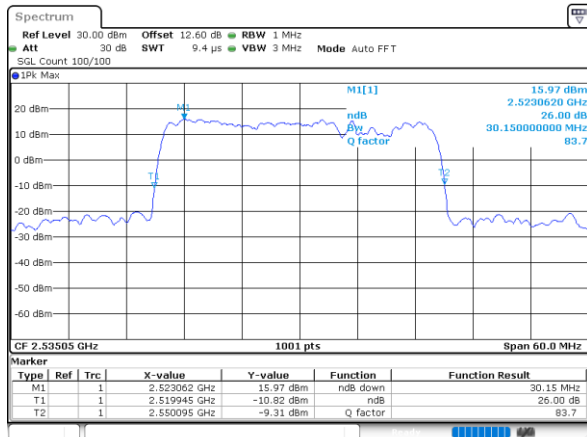
Lowest Channel / 20MHz+10MHz



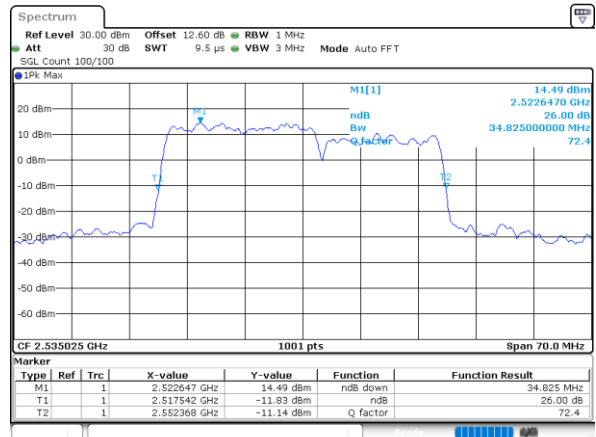
Lowest Channel / 20MHz+15MHz



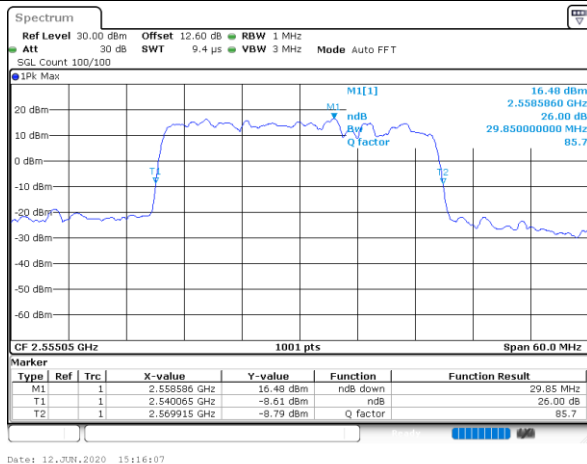
Middle Channel / 20MHz+10MHz



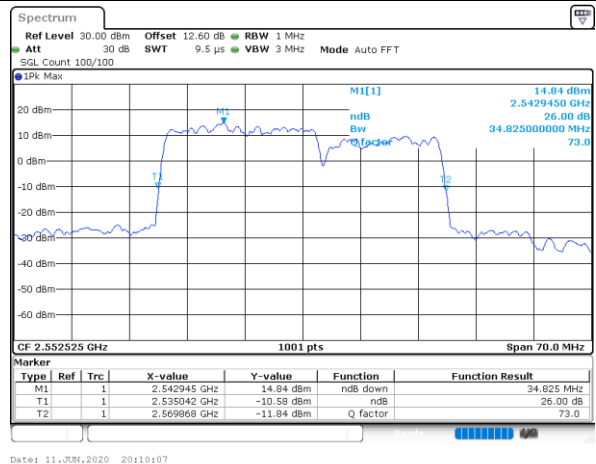
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



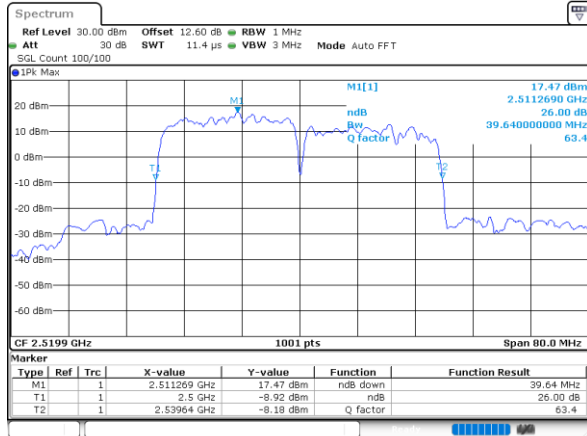


LTE Band 7C

64QAM

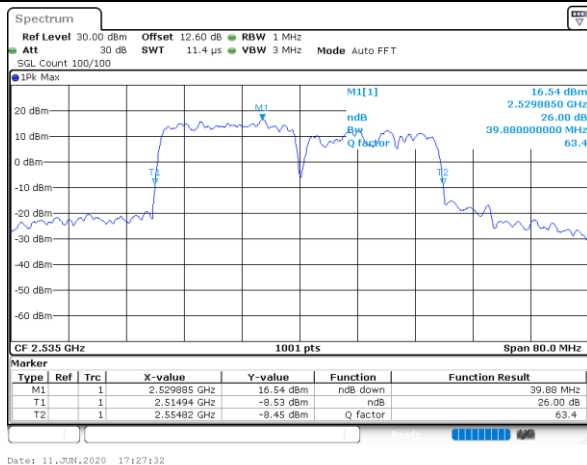
Lowest Channel / 20MHz+20MHz

N/A



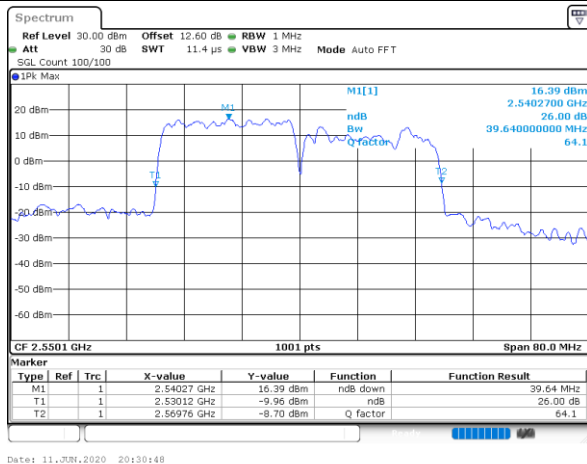
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A



Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	28.05	23.38	28.53	32.73
Middle CH	27.75	23.23	28.53	32.66
Highest CH	27.93	23.38	28.47	32.66
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.87	32.66	37.72	-
Middle CH	27.87	32.45	37.64	-
Highest CH	28.11	32.94	37.72	-

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	27.81	23.38	28.47	32.66
Middle CH	28.05	23.23	28.89	32.73
Highest CH	27.93	23.38	28.59	32.59
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.63	32.52	37.96	-
Middle CH	28.11	32.59	37.40	-
Highest CH	27.93	32.80	37.56	-

Mode	LTE Band 7C : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	27.75	23.43	28.47	32.73
Middle CH	27.63	23.28	28.59	32.66
Highest CH	27.93	23.23	28.53	32.52
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.87	32.87	37.08	-
Middle CH	28.11	32.80	37.72	-
Highest CH	28.23	32.66	37.64	-