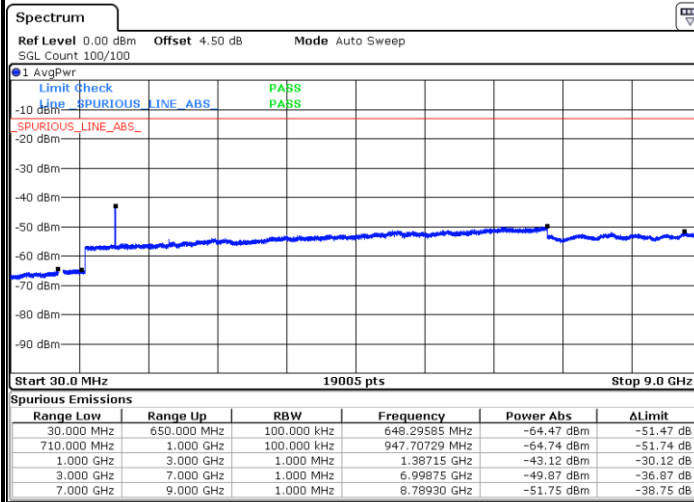




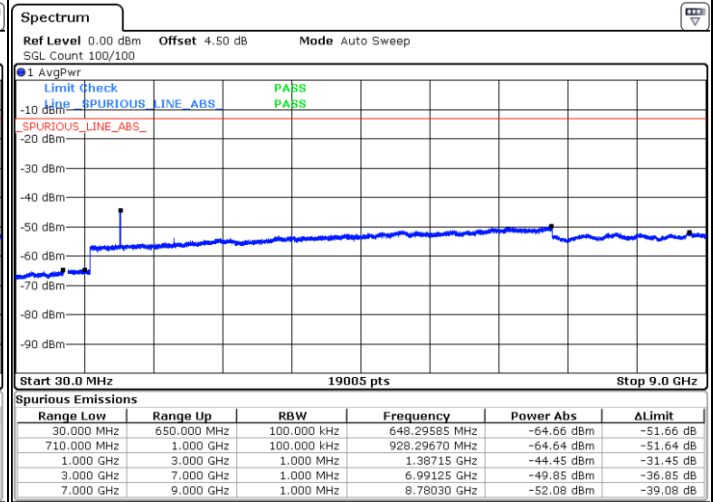
LTE Band 71 / 5MHz

Highest Channel / QPSK



Date: 24 FEB 2020 04:52:47

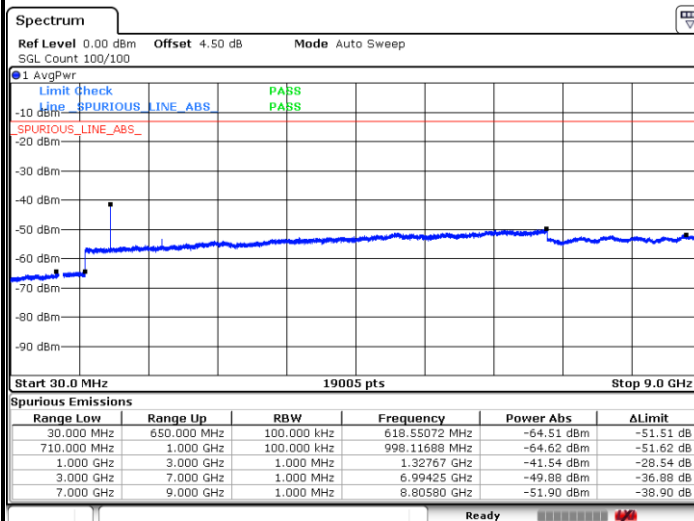
Highest Channel / 16QAM



Date: 24 FEB 2020 04:52:23

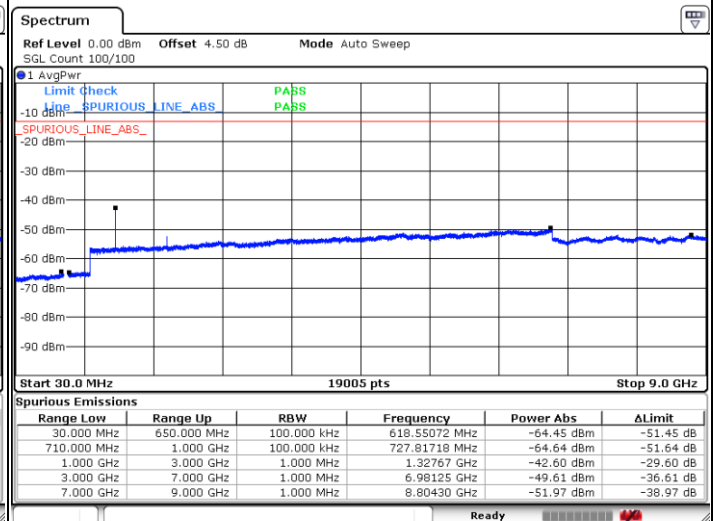
LTE Band 71 / 10MHz

Lowest Channel / QPSK



Date: 24 FEB 2020 04:48:38

Lowest Channel / 16QAM

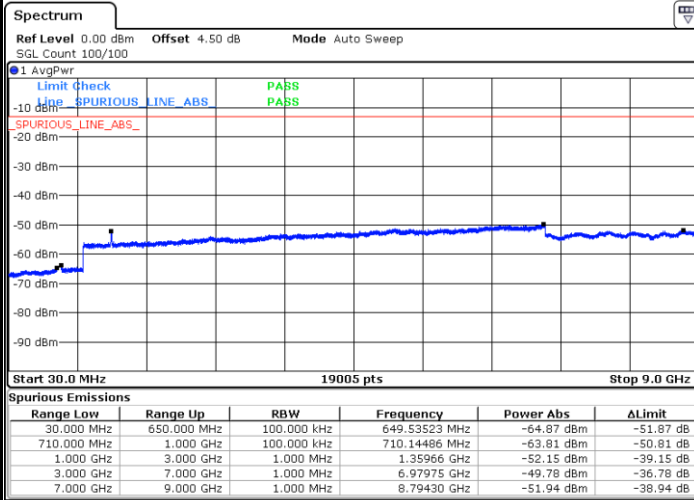


Date: 24 FEB 2020 04:49:08



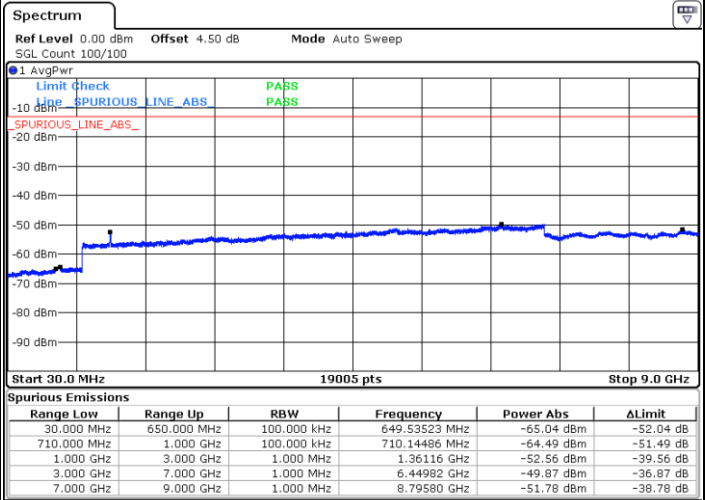
LTE Band 71 / 10MHz

Middle Channel / QPSK



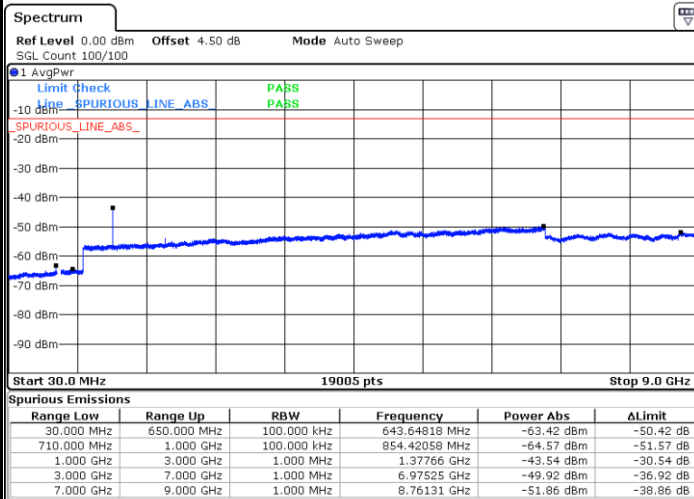
Date: 24 FEB 2020 04:37:16

Middle Channel / 16QAM



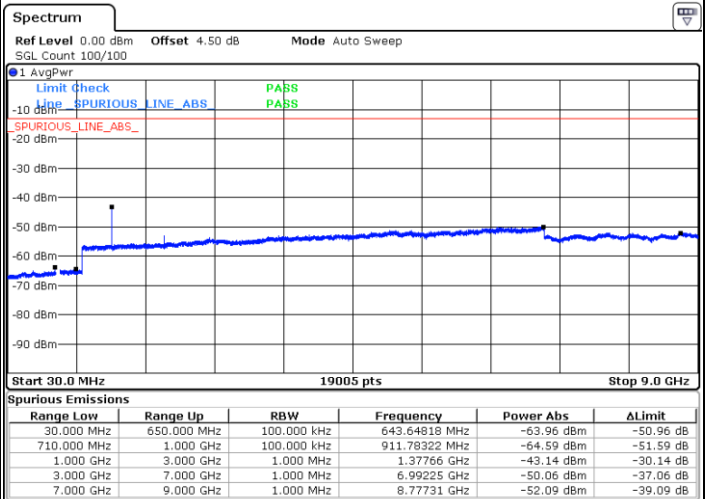
Date: 24 FEB 2020 04:36:45

Highest Channel / QPSK



Date: 24 FEB 2020 04:50:55

Highest Channel / 16QAM

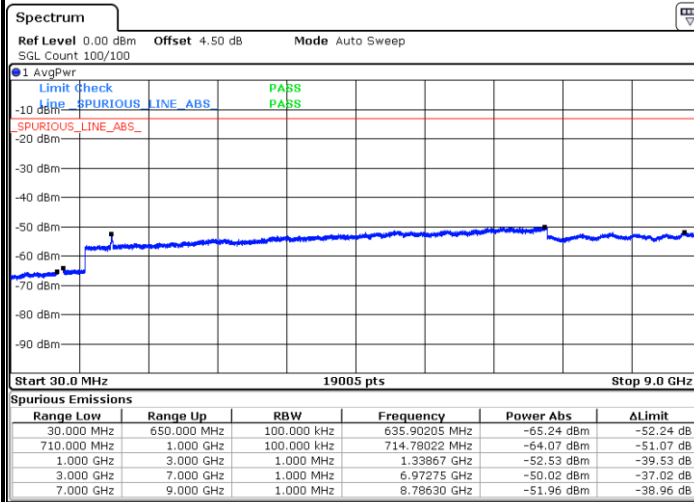


Date: 24 FEB 2020 04:50:27



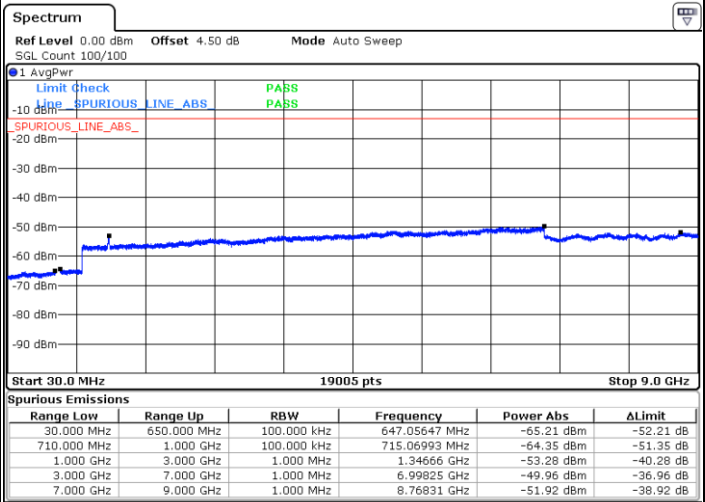
LTE Band 71 / 15MHz

Lowest Channel / QPSK



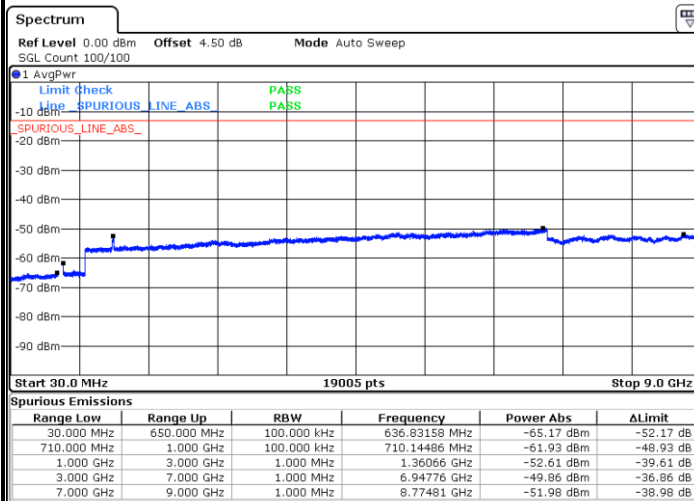
Date: 24 FEB 2020 04:47:47

Lowest Channel / 16QAM



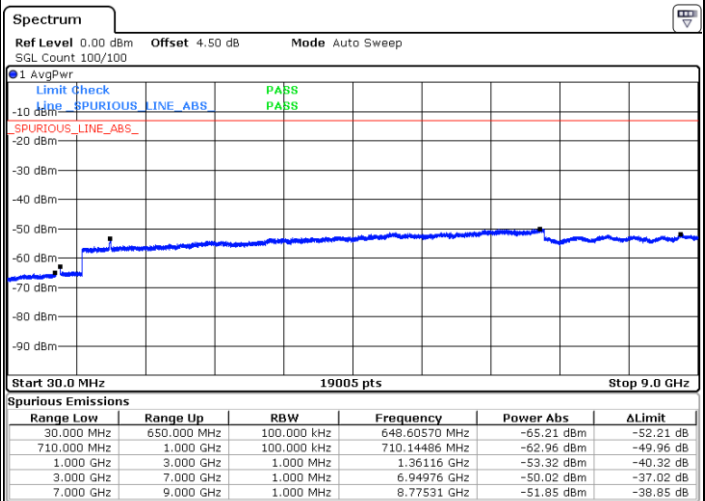
Date: 24 FEB 2020 04:47:18

Middle Channel / QPSK



Date: 24 FEB 2020 04:38:01

Middle Channel / 16QAM

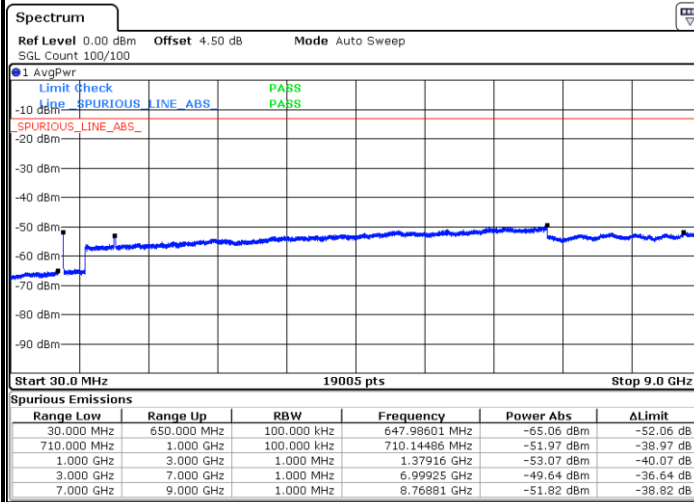


Date: 24 FEB 2020 04:38:47



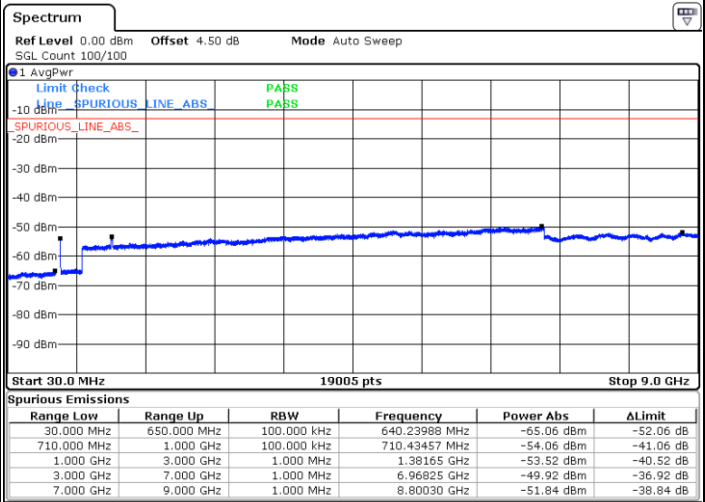
LTE Band71 / 15MHz

Highest Channel / QPSK



Date: 24 FEB 2020 04:44:54

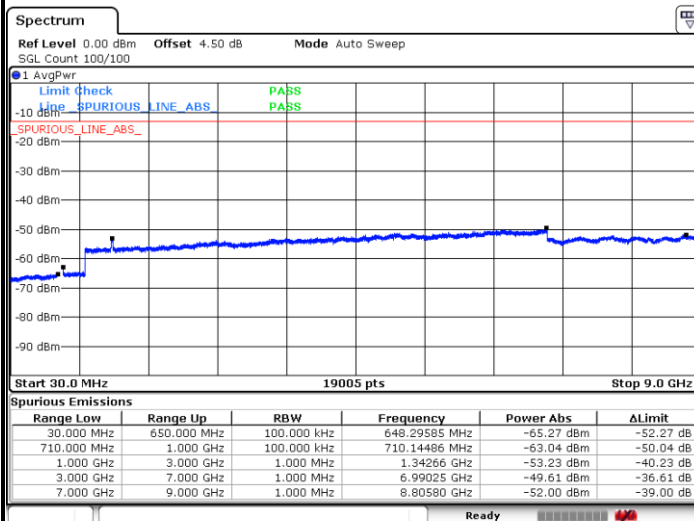
Highest Channel / 16QAM



Date: 24 FEB 2020 04:45:38

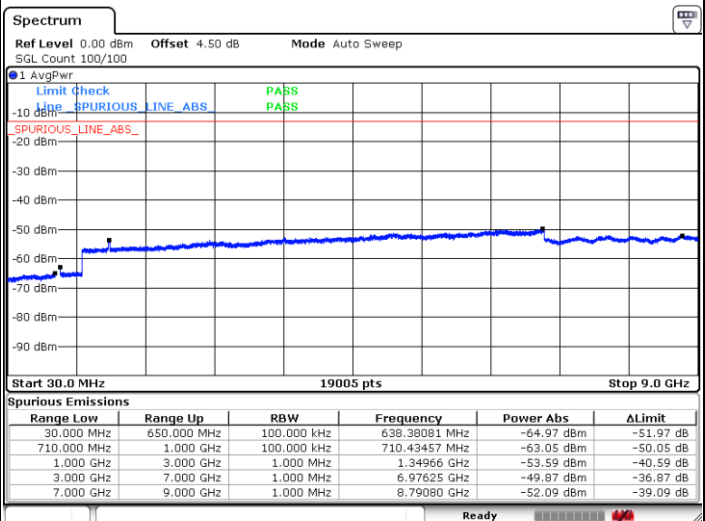
LTE Band 71 / 20MHz

Lowest Channel / QPSK



Date: 24 FEB 2020 04:41:34

Lowest Channel / 16QAM

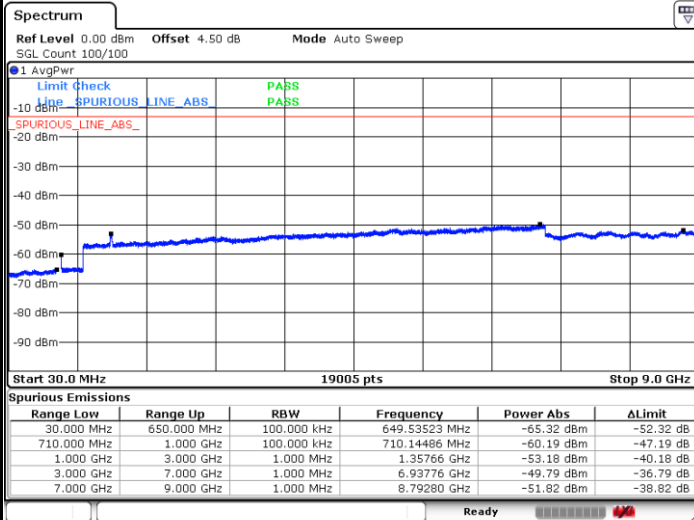


Date: 24 FEB 2020 04:42:03



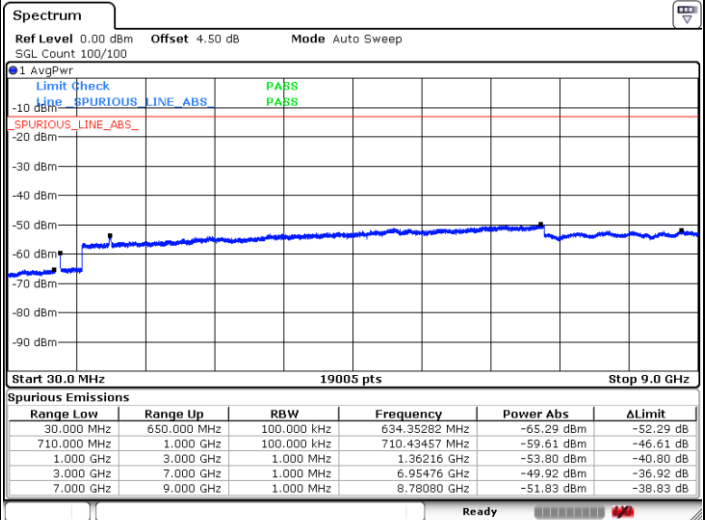
LTE Band 71 / 20MHz

Middle Channel / QPSK



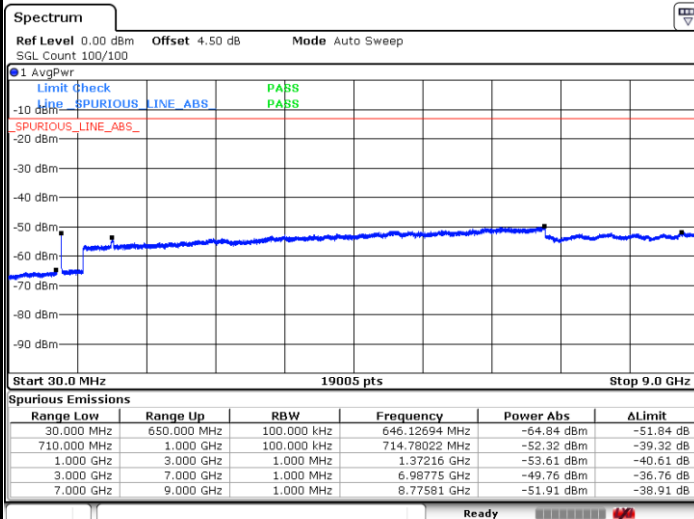
Date: 24 FEB 2020 04:40:56

Middle Channel / 16QAM



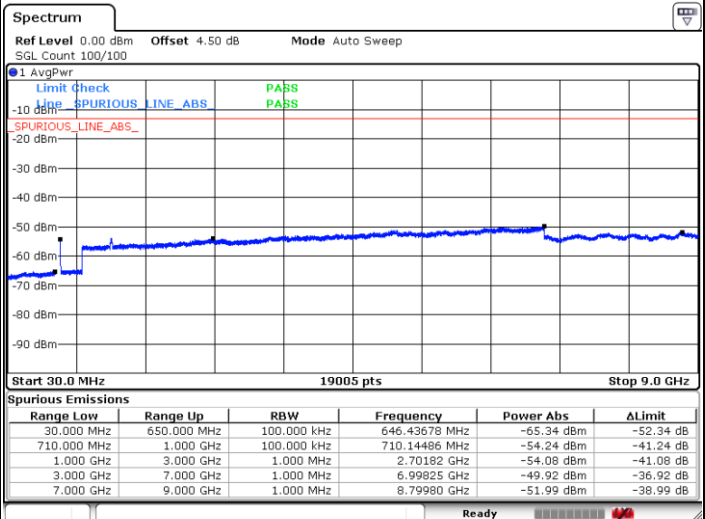
Date: 24 FEB 2020 04:40:24

Highest Channel / QPSK



Date: 24 FEB 2020 04:44:04

Highest Channel / 16QAM

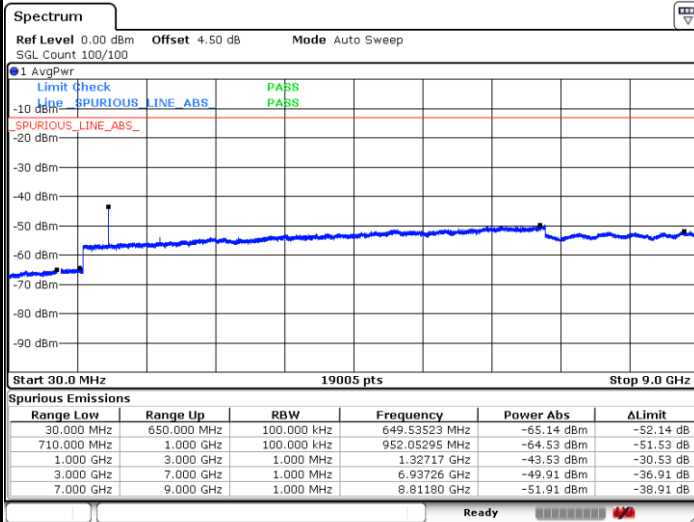


Date: 24 FEB 2020 04:43:38



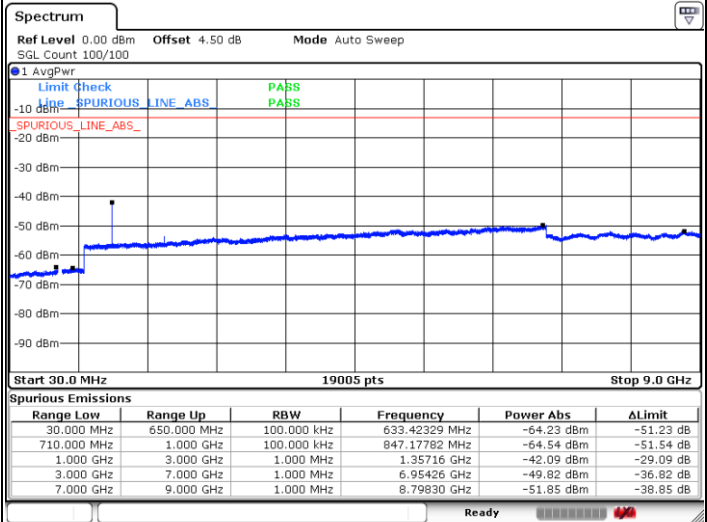
LTE Band 71 / 5MHz

Lowest Channel / 64QAM



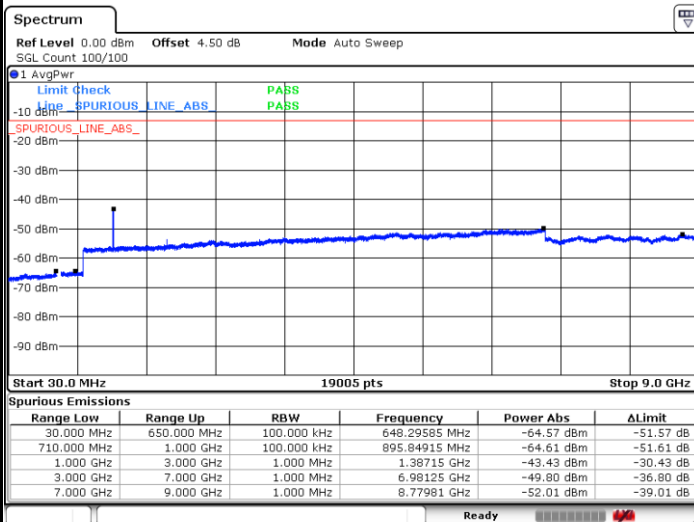
Date: 24 FEB 2020 04:54:17

Middle Channel / 64QAM



Date: 24 FEB 2020 04:35:30

Highest Channel / 64QAM

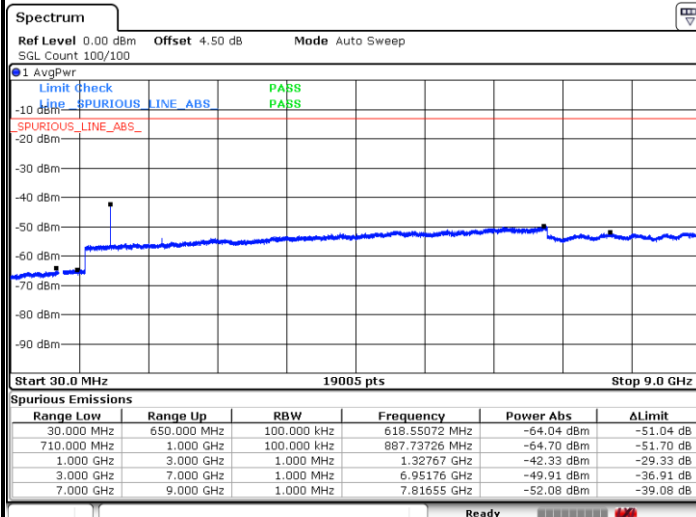


Date: 24 FEB 2020 04:51:50



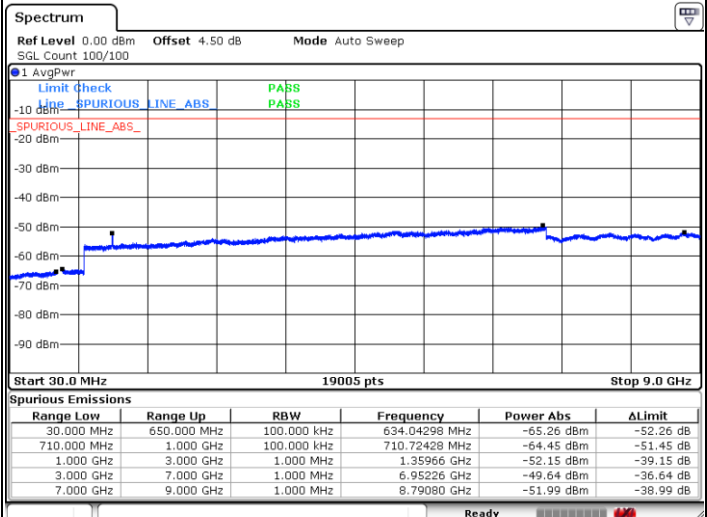
LTE Band 71 / 10MHz

Lowest Channel / 64QAM



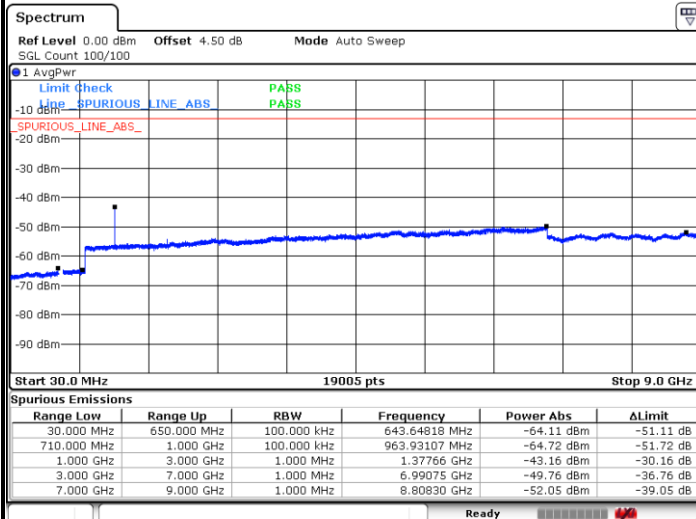
Date: 24 FEB 2020 04:49:31

Middle Channel / 64QAM



Date: 24 FEB 2020 04:36:10

Highest Channel / 64QAM

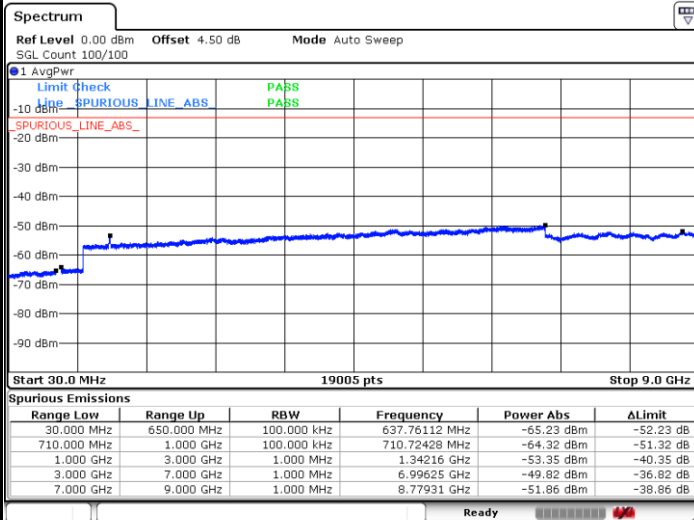


Date: 24 FEB 2020 04:49:59



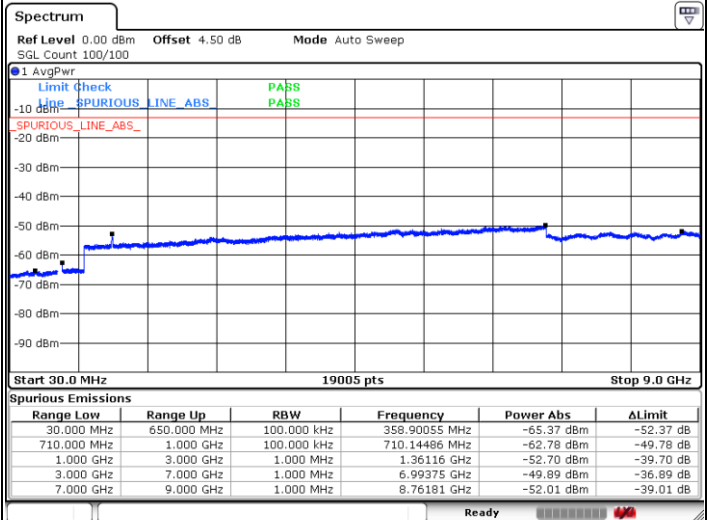
LTE Band 71 / 15MHz

Lowest Channel / 64QAM



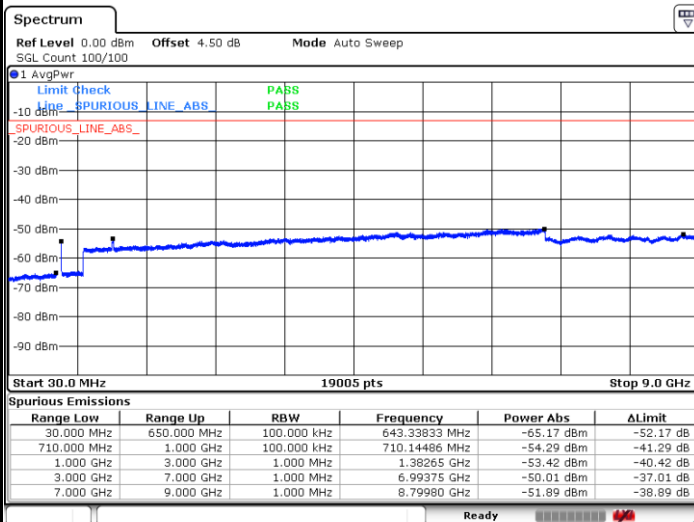
Date: 24 FEB 2020 04:46:52

Middle Channel / 64QAM



Date: 24 FEB 2020 04:39:20

Highest Channel / 64QAM

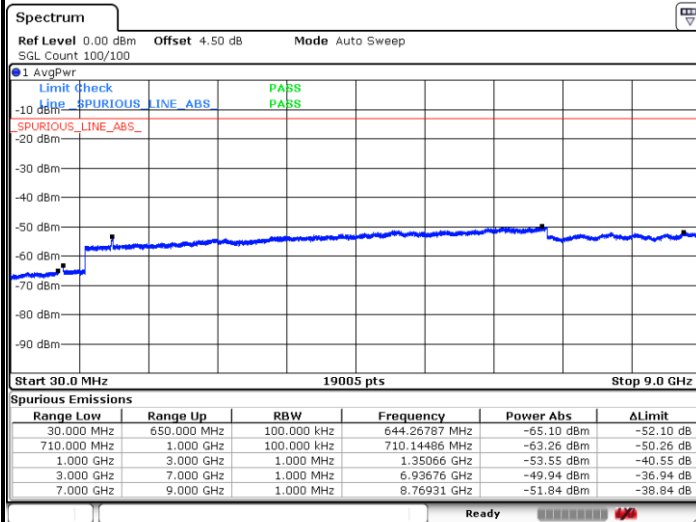


Date: 24 FEB 2020 04:46:22



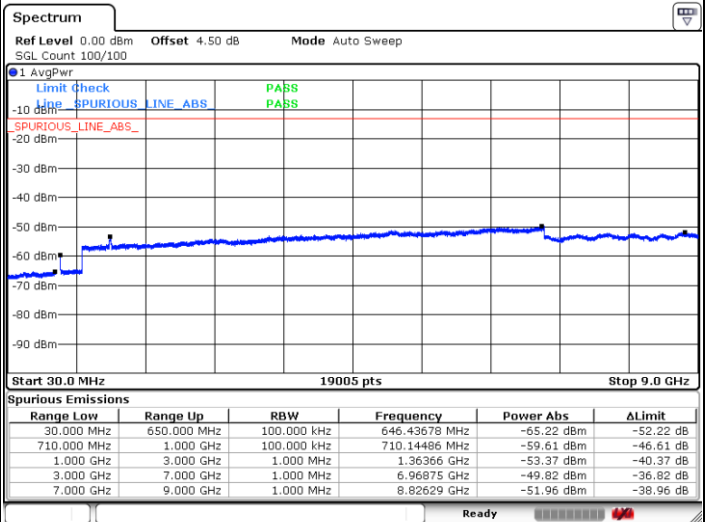
LTE Band 71 / 20MHz

Lowest Channel / 64QAM



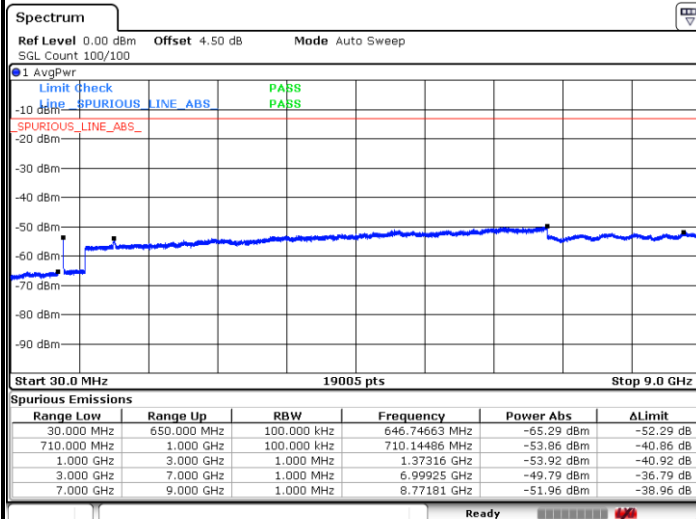
Date: 24 FEB 2020 04:42:29

Middle Channel / 64QAM



Date: 24 FEB 2020 04:39:54

Highest Channel / 64QAM



Date: 24 FEB 2020 04:43:01

Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0040	PASS
40	Normal Voltage	0.0052	
30	Normal Voltage	0.0079	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7 CA

26dB Bandwidth

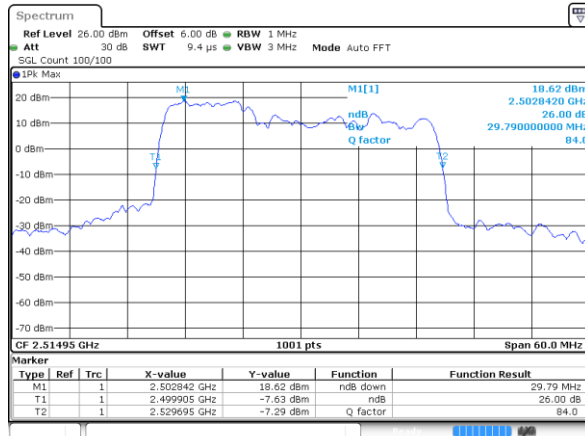
Mode	LTE Band 7 CA : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.79		25.225	30.689
Middle CH	29.97		25.325	30.509
Highest CH	29.97		25.325	30.569
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.895	30.15	34.825	39.8
Middle CH	34.755	30.09	34.895	39.8
Highest CH	34.825	29.97	35.035	39.8

Mode	LTE Band 7 CA : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.91		25.175	30.869
Middle CH	29.79		25.375	30.33
Highest CH	29.73		25.275	30.629
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.965	29.85	34.825	39.96
Middle CH	34.755	30.15	34.965	39.72
Highest CH	34.965	29.97	35.035	39.72

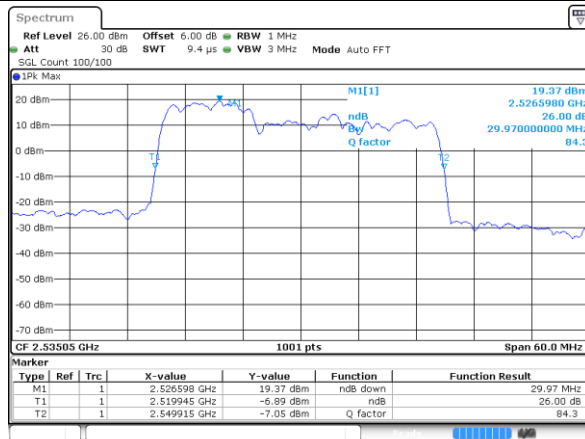
Mode	LTE Band 7 CA : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	29.85		25.125	30.629
Middle CH	29.97		25.375	30.45
Highest CH	29.79		25.225	30.509
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.825	30.15	34.895	39.88
Middle CH	34.895	30.27	34.965	39.72
Highest CH	34.755	30.03	34.825	39.96



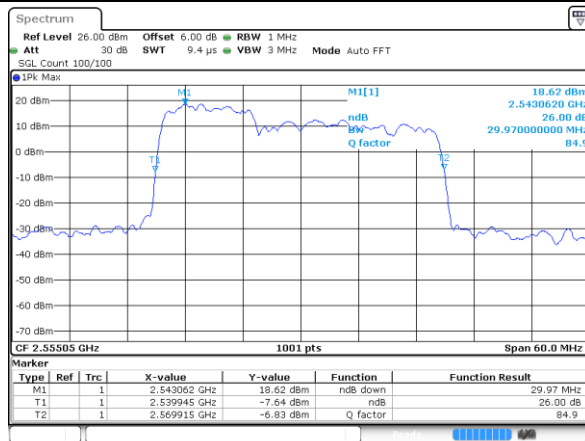
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

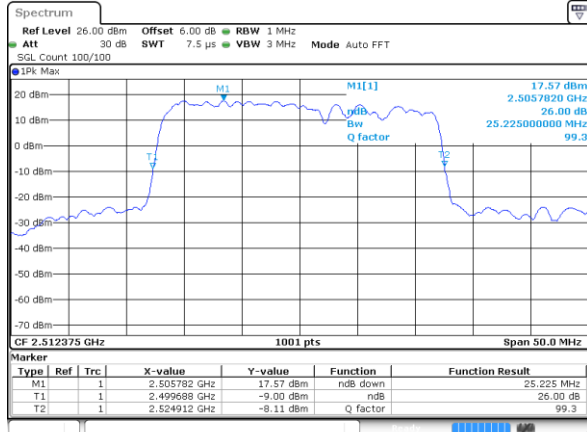




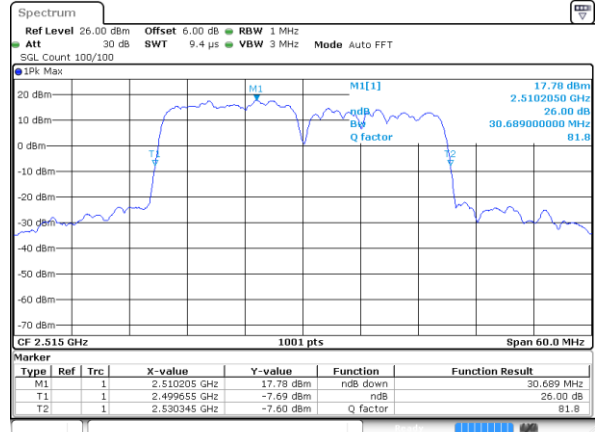
LTE Band 7 CA

QPSK

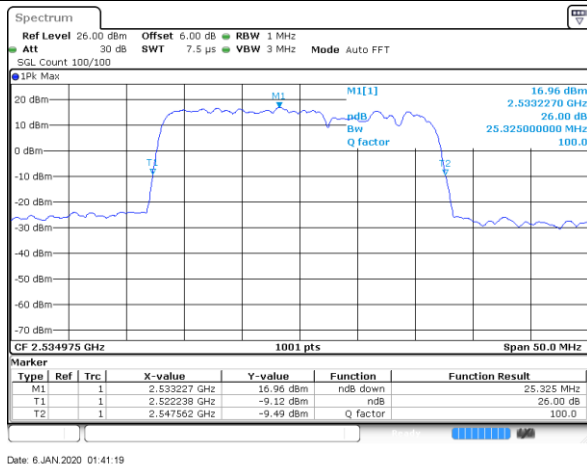
Lowest Channel / 15MHz+10MHz



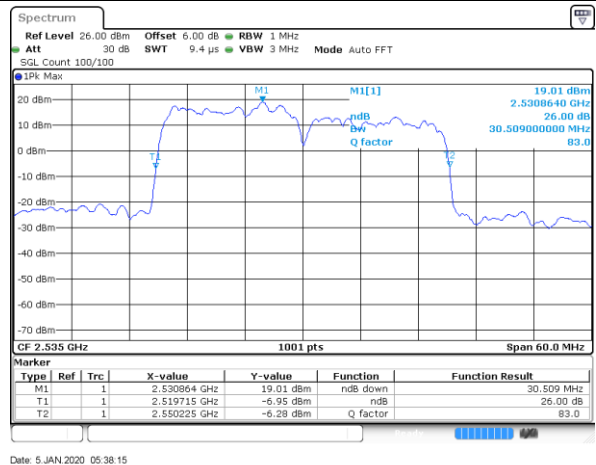
Lowest Channel / 15MHz+15MHz



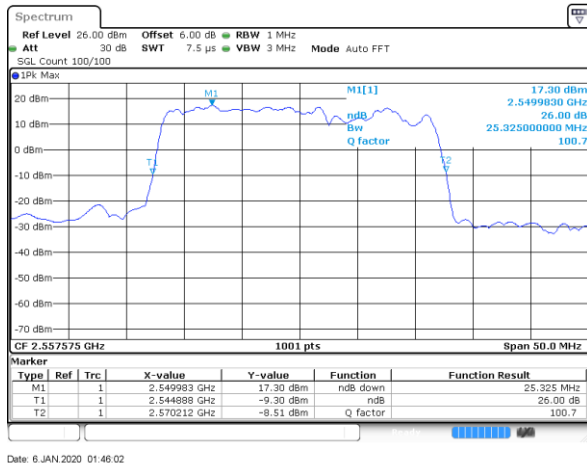
Middle Channel / 15MHz+10MHz



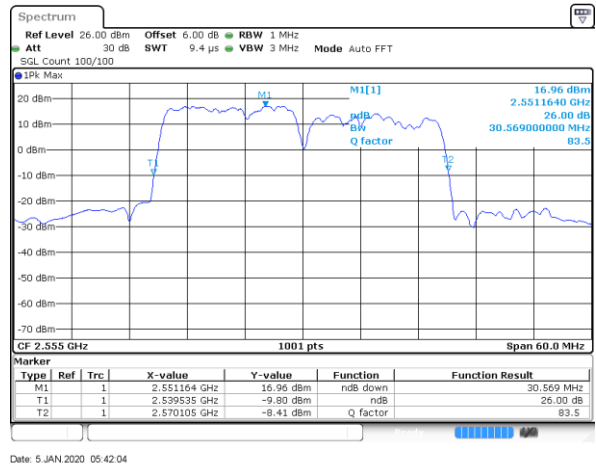
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

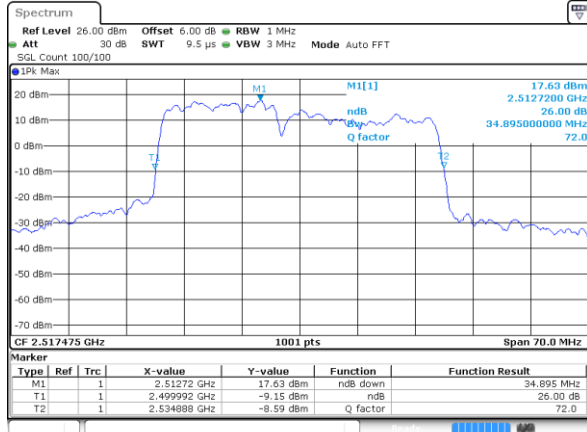




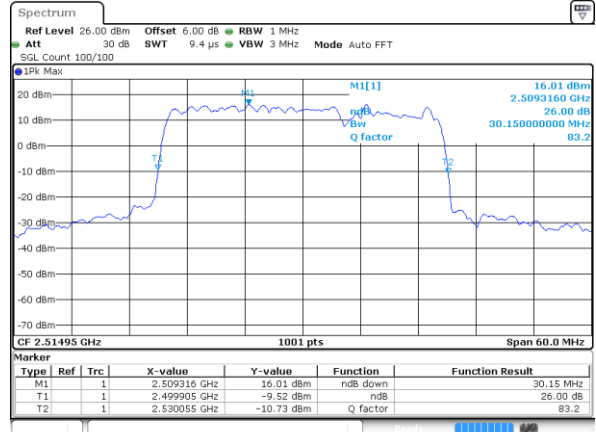
LTE Band 7 CA

QPSK

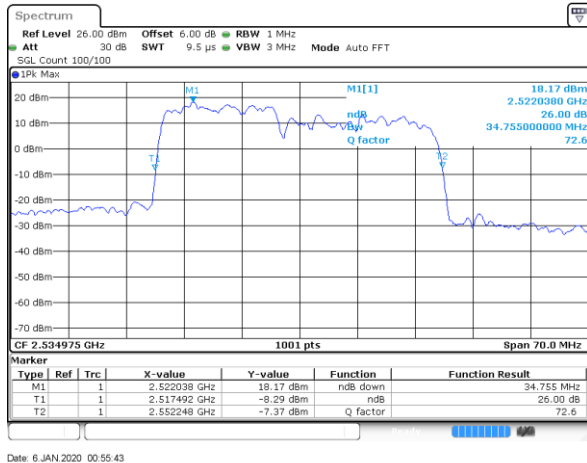
Lowest Channel / 15MHz+20MHz



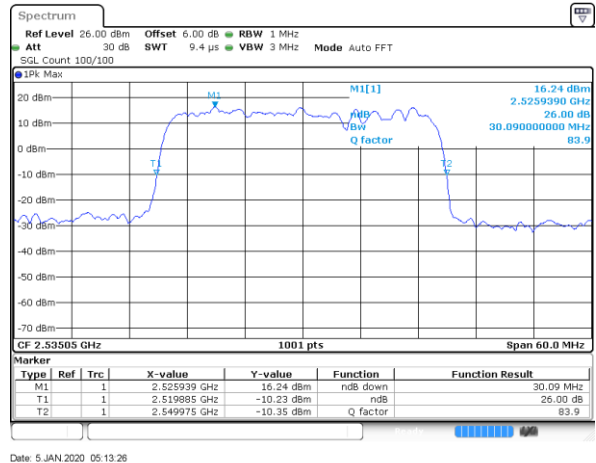
Lowest Channel / 20MHz+10MHz



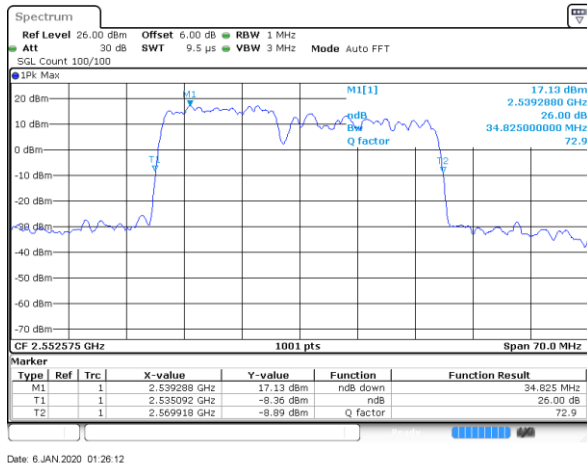
Middle Channel / 15MHz+20MHz



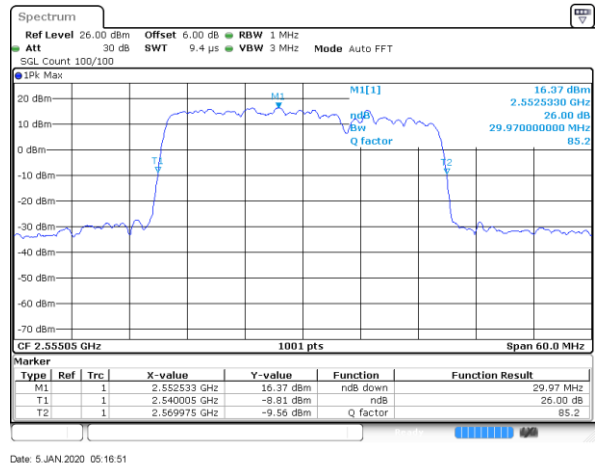
Middle Channel / 20MHz+10MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+10MHz

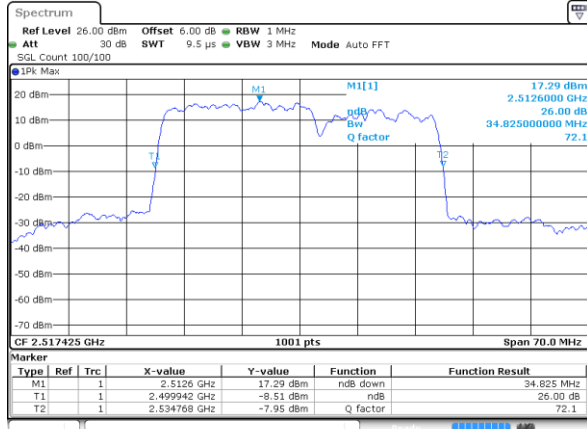




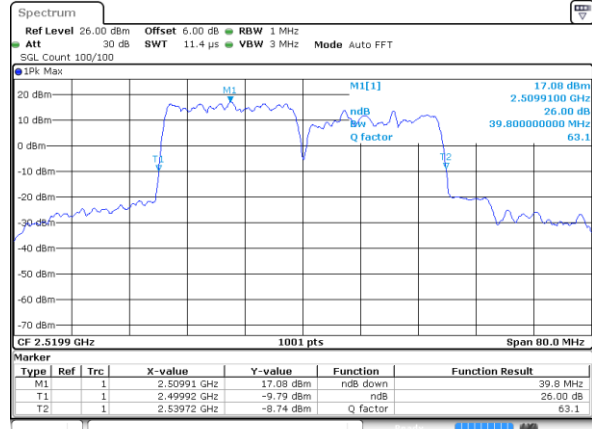
LTE Band 7 CA

QPSK

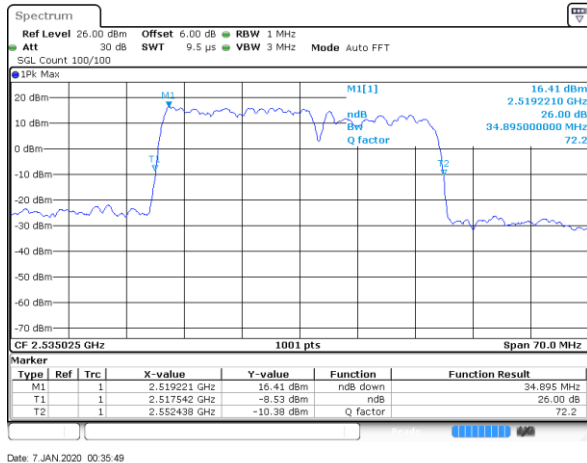
Lowest Channel / 20MHz+15MHz



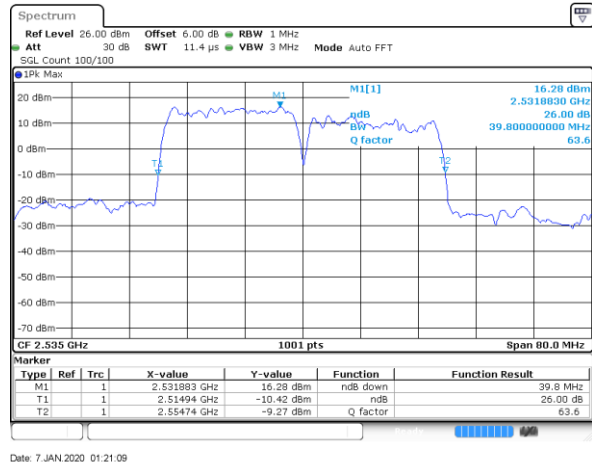
Lowest Channel / 20MHz+20MHz



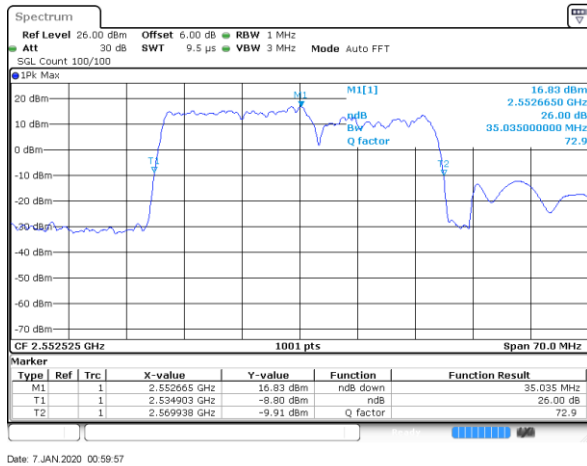
Middle Channel / 20MHz+15MHz



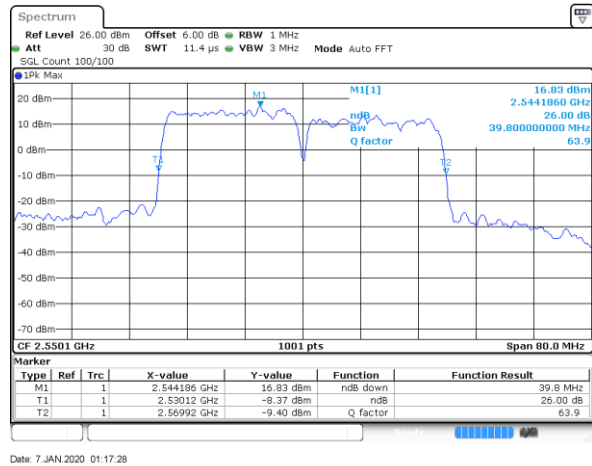
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz

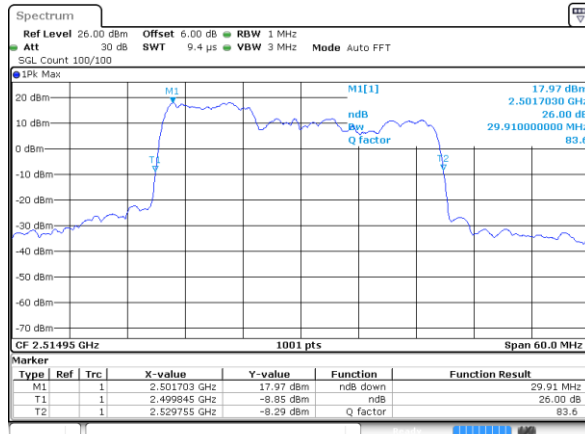


Highest Channel / 20MHz+20MHz

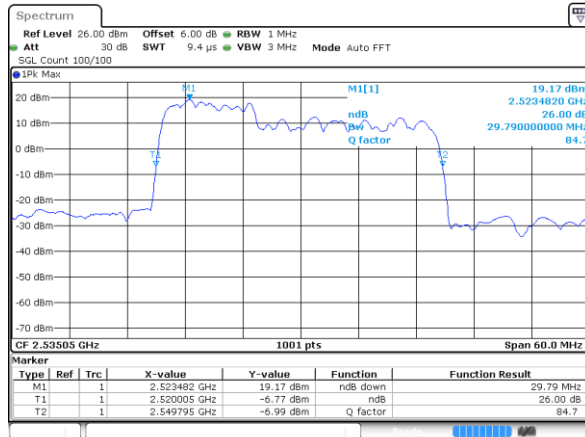




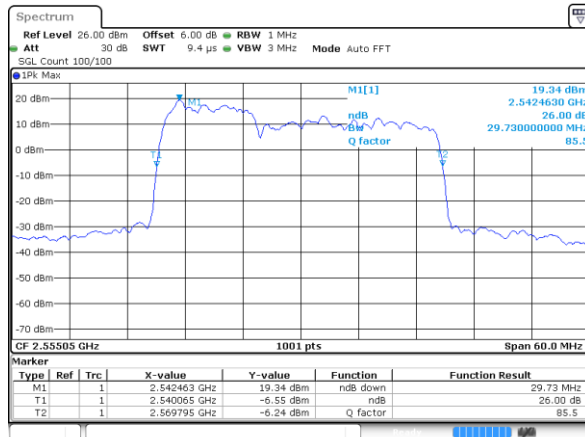
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

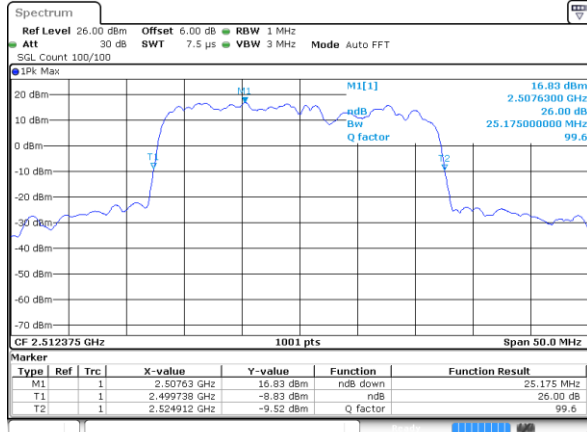




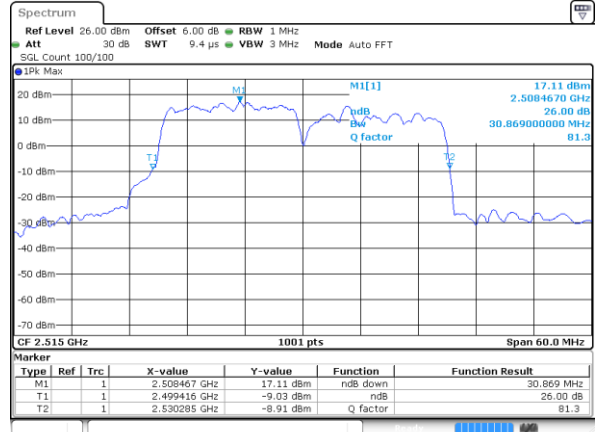
LTE Band 7 CA

16QAM

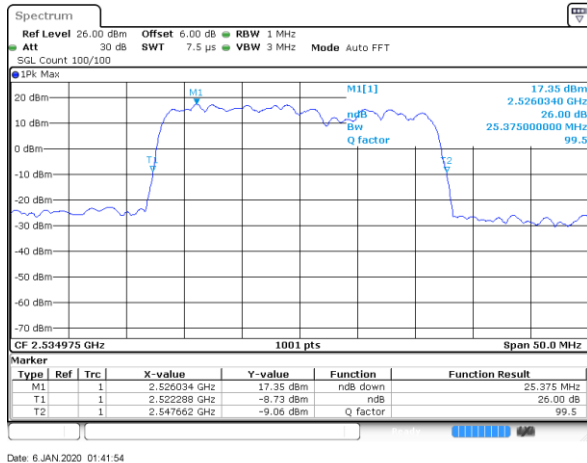
Lowest Channel / 15MHz+10MHz



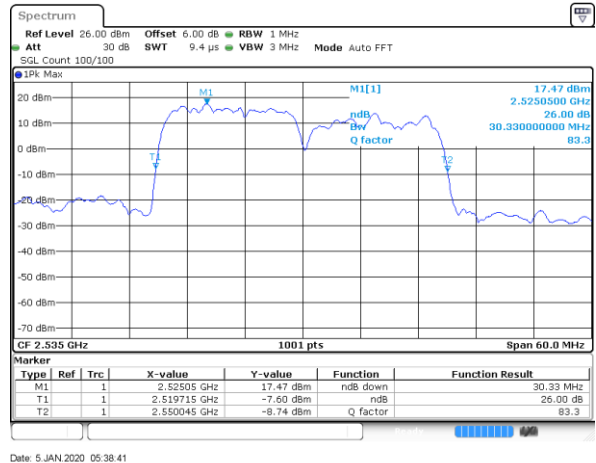
Lowest Channel / 15MHz+15MHz



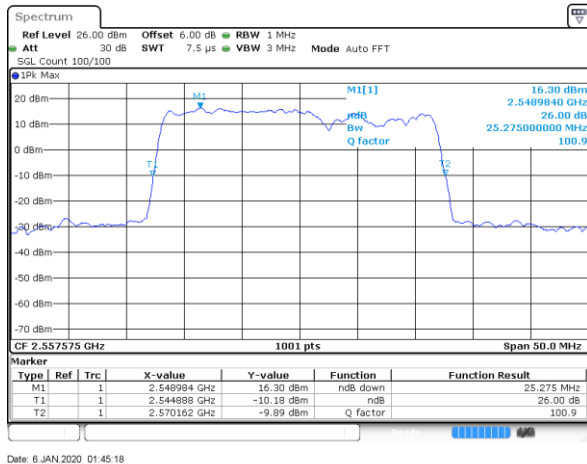
Middle Channel / 15MHz+10MHz



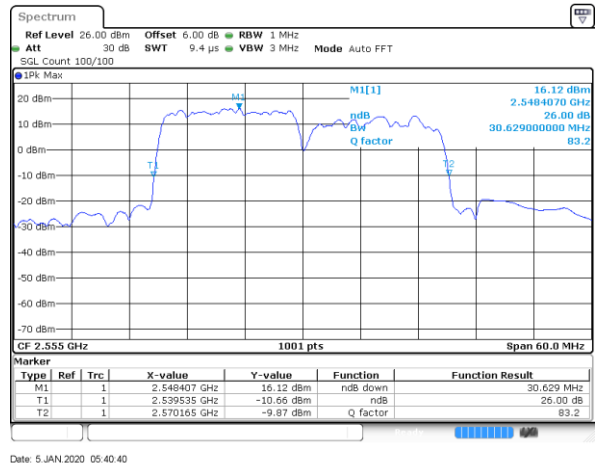
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

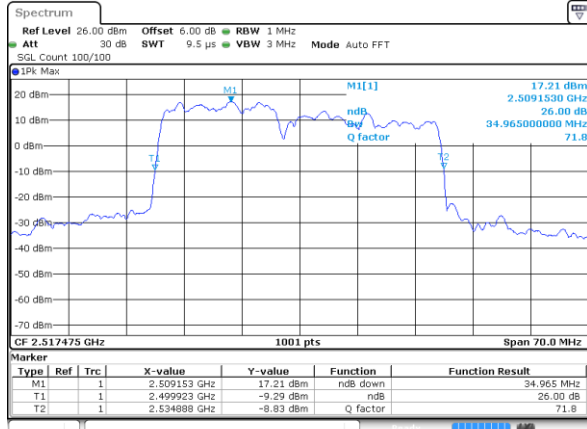




LTE Band 7 CA

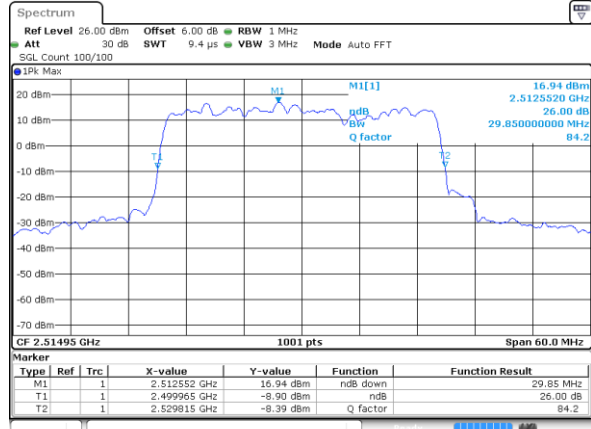
16QAM

Lowest Channel / 15MHz+20MHz



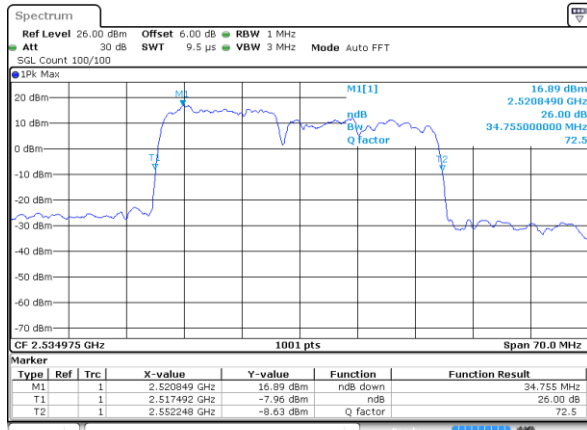
Date: 6 JAN 2020 00:53:04

Lowest Channel / 20MHz+10MHz



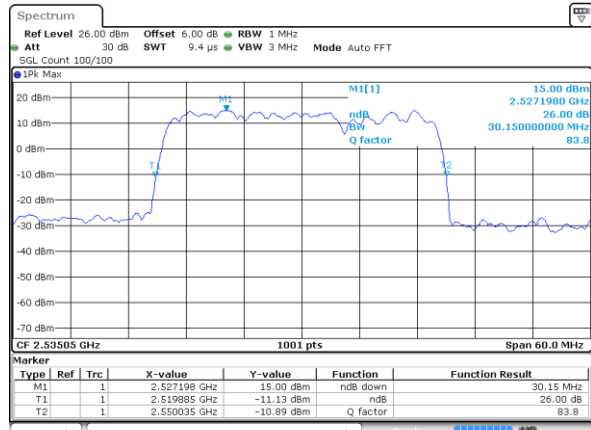
Date: 5 JAN 2020 04:30:15

Middle Channel / 15MHz+20MHz



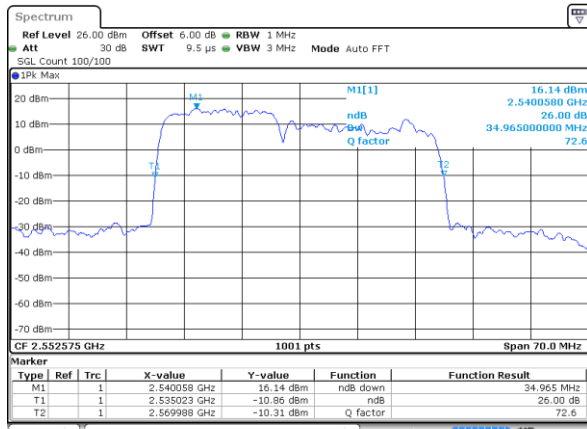
Date: 6 JAN 2020 00:55:18

Middle Channel / 20MHz+10MHz



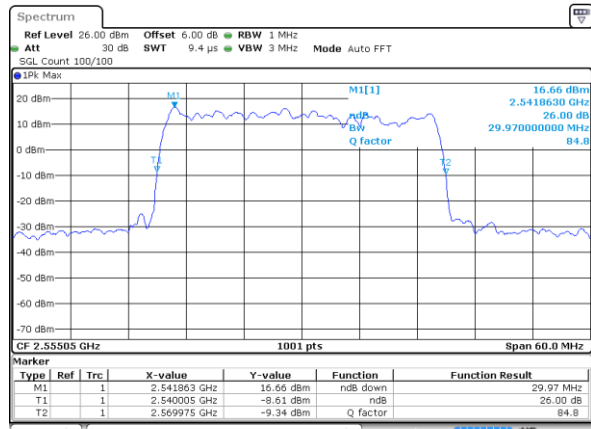
Date: 5 JAN 2020 05:15:11

Highest Channel / 15MHz+20MHz



Date: 6 JAN 2020 01:25:35

Highest Channel / 20MHz+10MHz



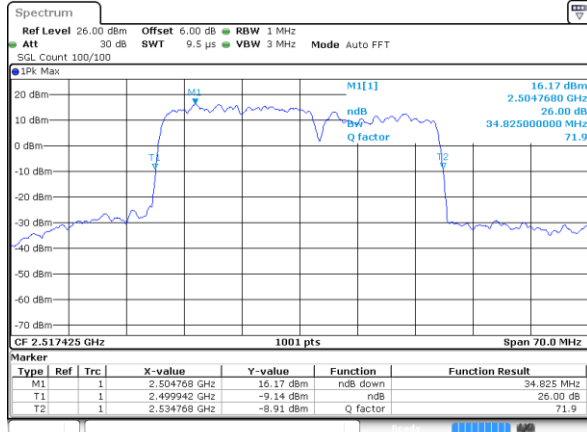
Date: 5 JAN 2020 05:16:12



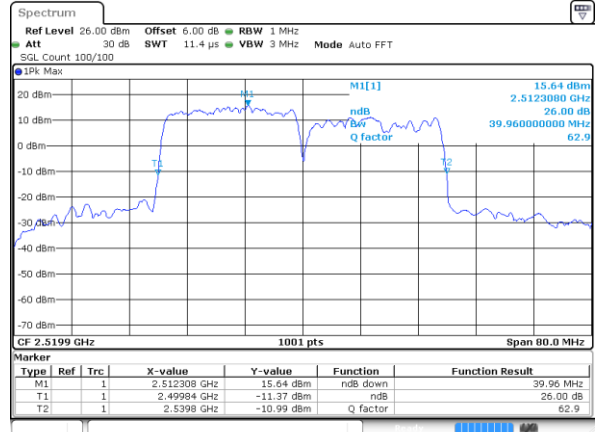
LTE Band 7 CA

16QAM

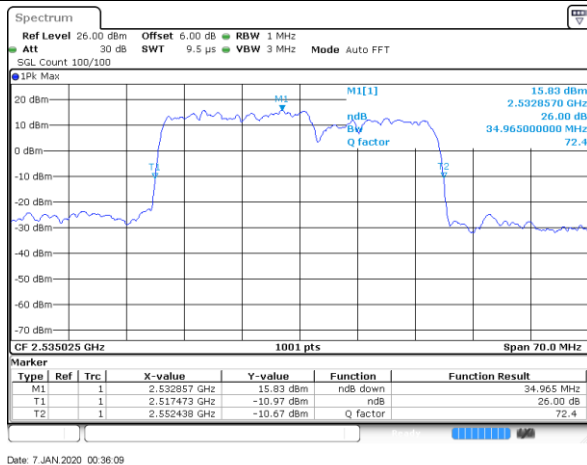
Lowest Channel / 20MHz+15MHz



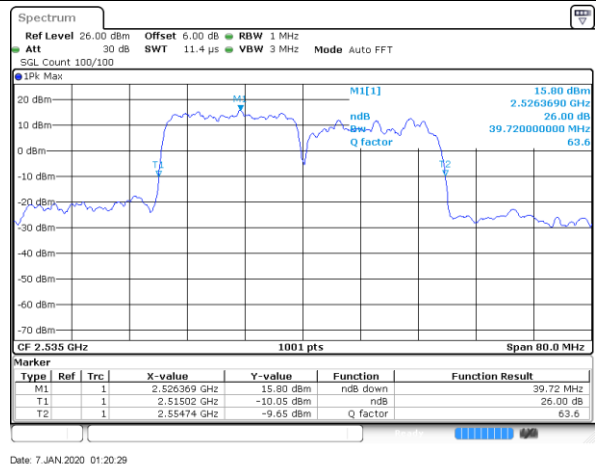
Lowest Channel / 20MHz+20MHz



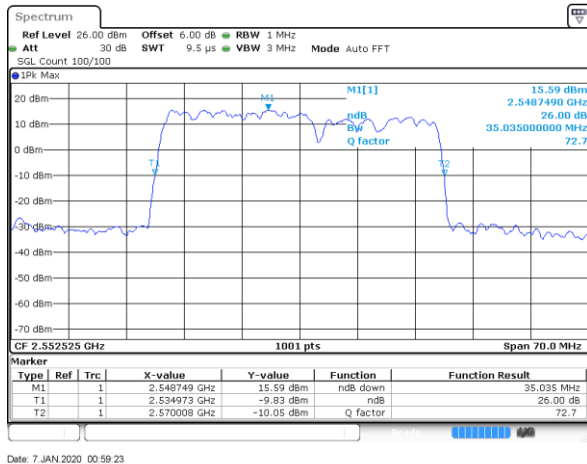
Middle Channel / 20MHz+15MHz



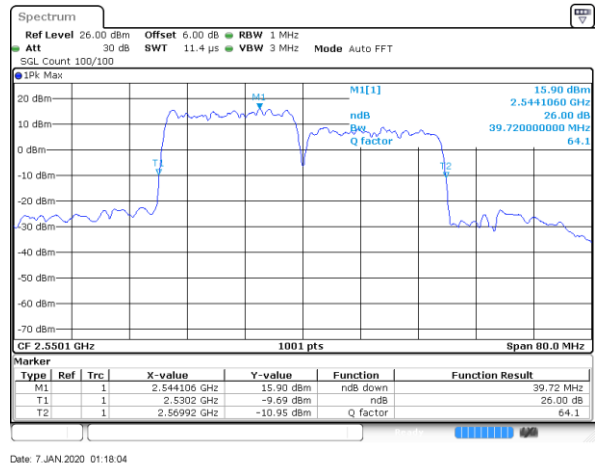
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz

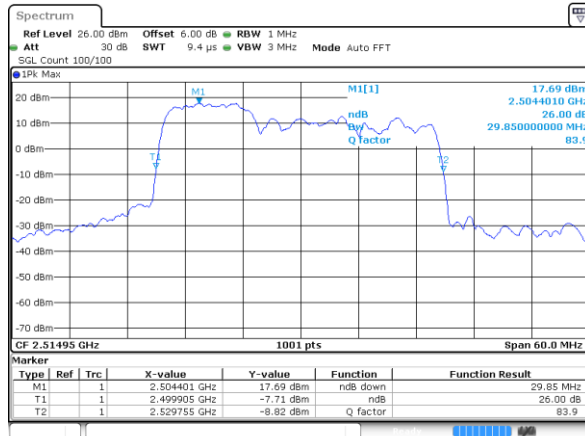


Highest Channel / 20MHz+20MHz



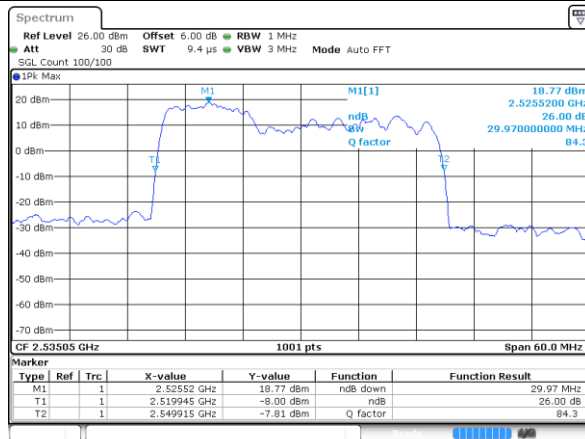


Lowest Channel / 10MHz+20MHz



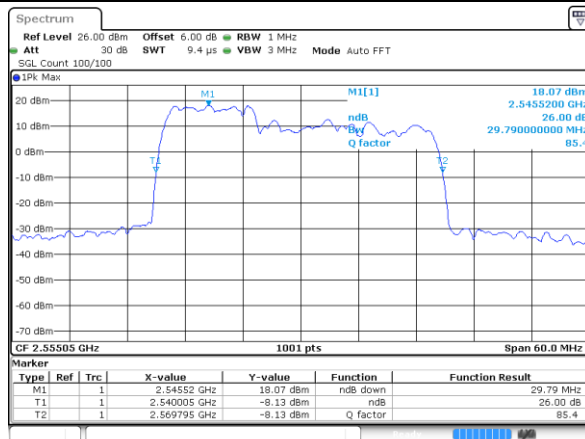
Date: 5 JAN 2020 02:37:24

Middle Channel / 10MHz+20MHz



Date: 5 JAN 2020 02:38:37

Highest Channel / 10MHz+20MHz



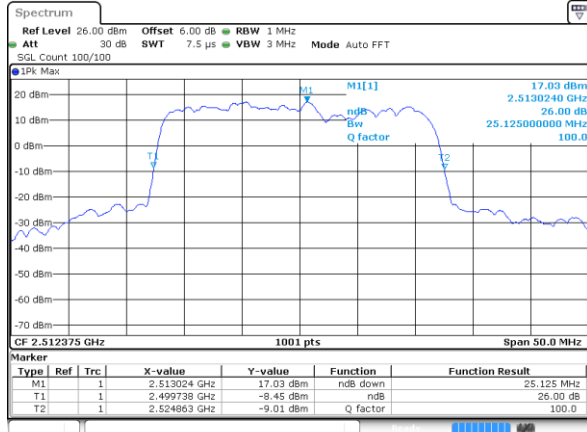
Date: 5 JAN 2020 03:59:15



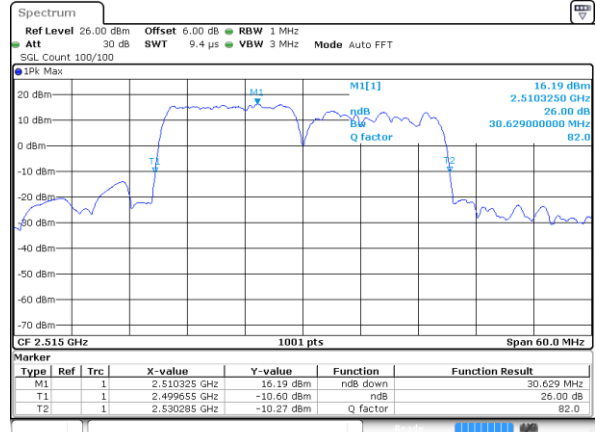
LTE Band 7 CA

64QAM

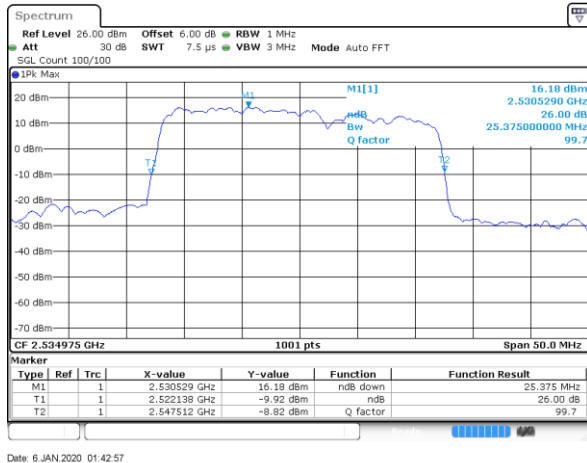
Lowest Channel / 15MHz+10MHz



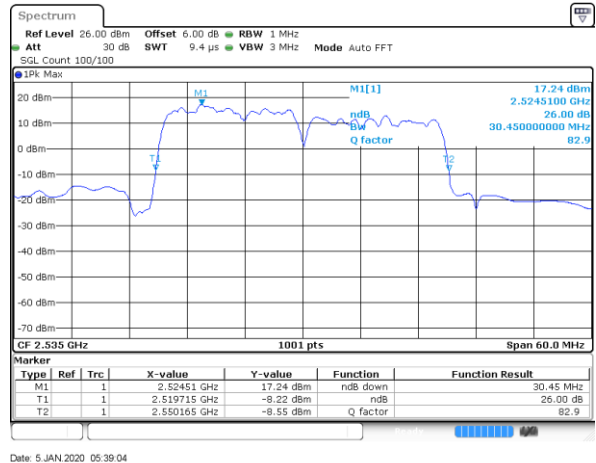
Lowest Channel / 15MHz+15MHz



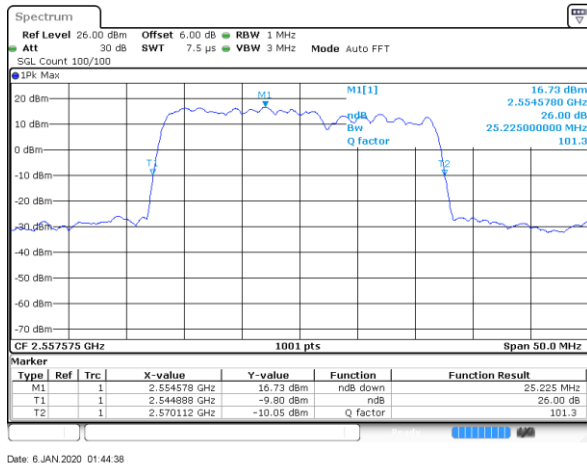
Middle Channel / 15MHz+10MHz



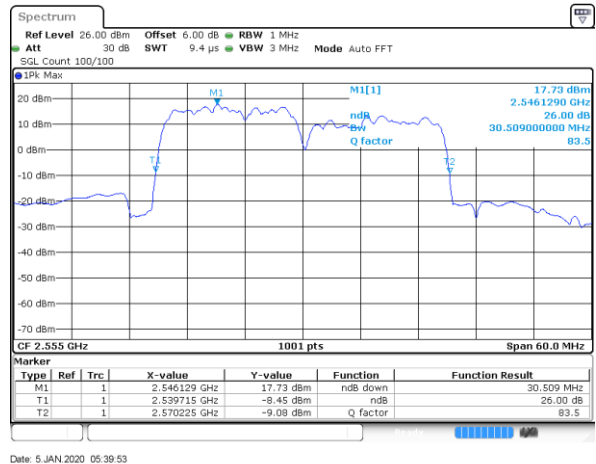
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

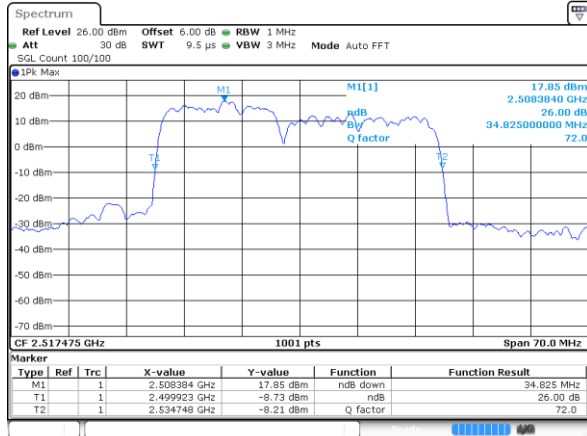




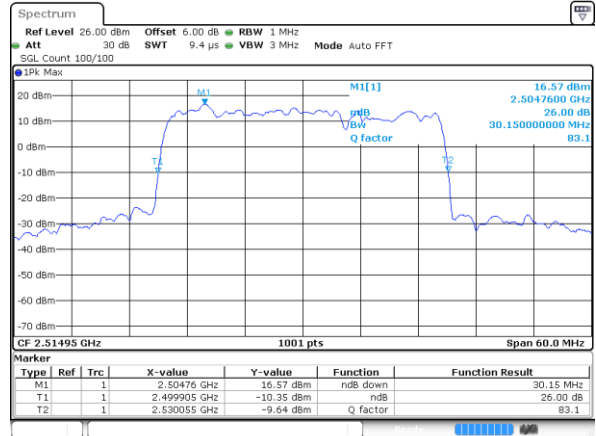
LTE Band 7 CA

64QAM

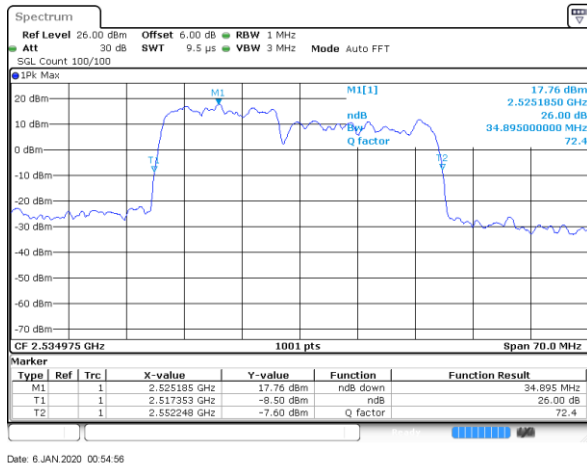
Lowest Channel / 15MHz+20MHz



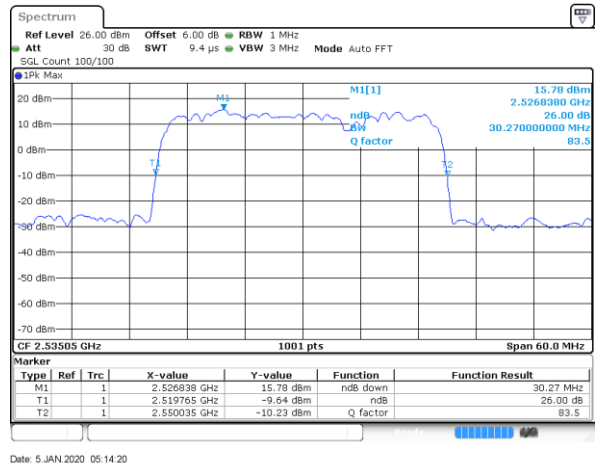
Lowest Channel / 20MHz+10MHz



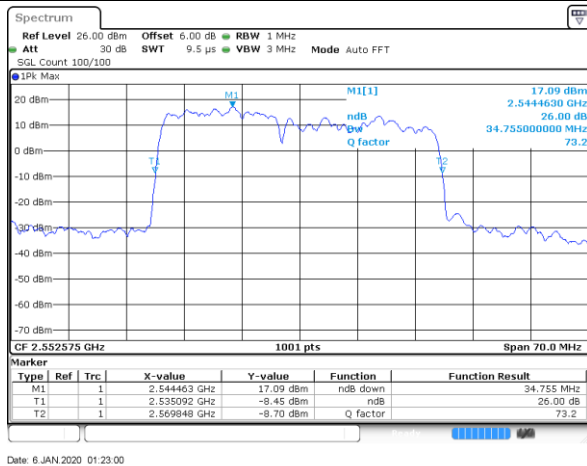
Middle Channel / 15MHz+20MHz



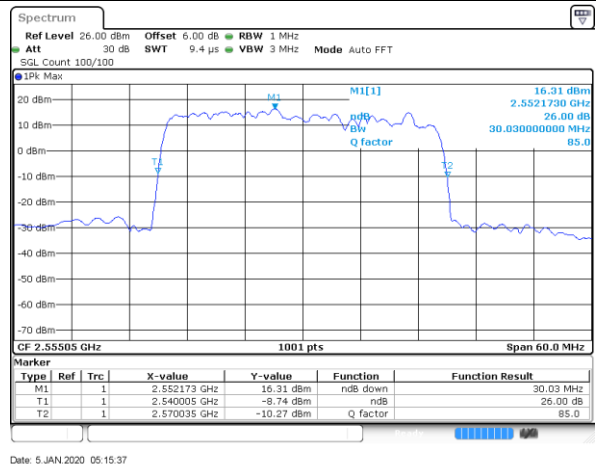
Middle Channel / 20MHz+10MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+10MHz

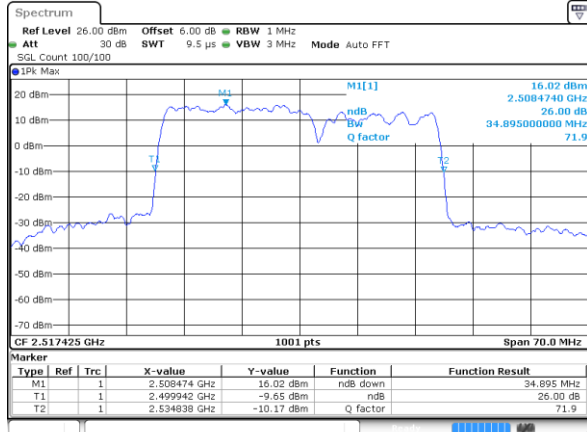




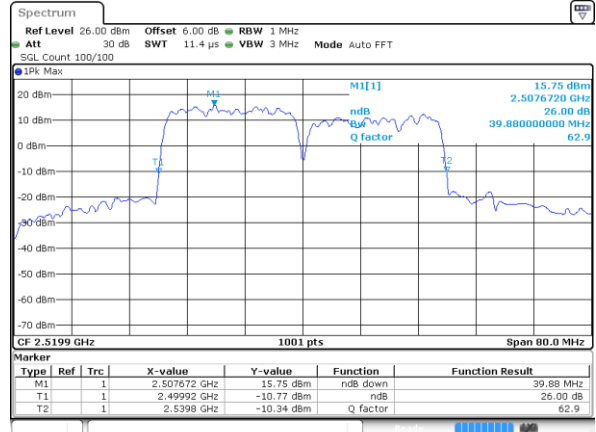
LTE Band 7 CA

64QAM

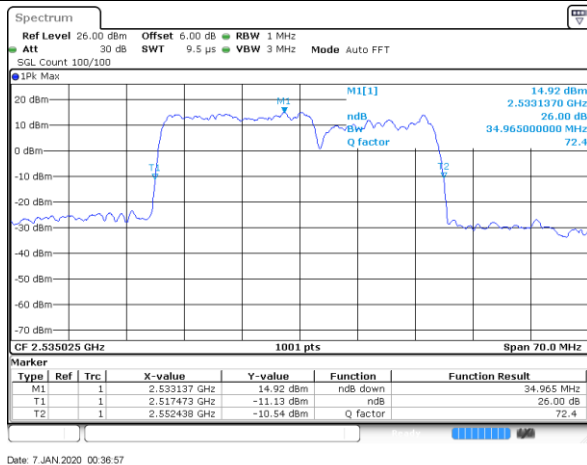
Lowest Channel / 20MHz+15MHz



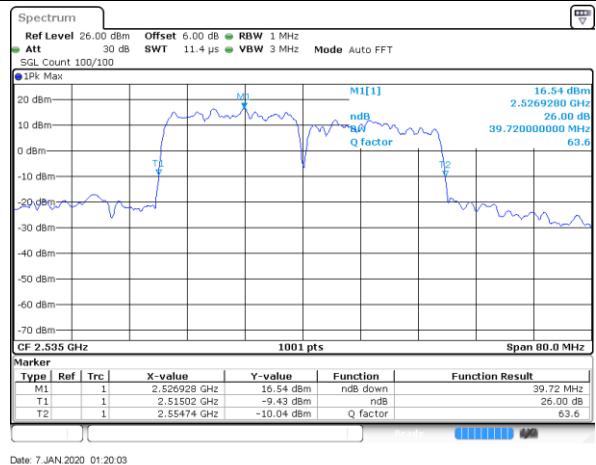
Lowest Channel / 20MHz+20MHz



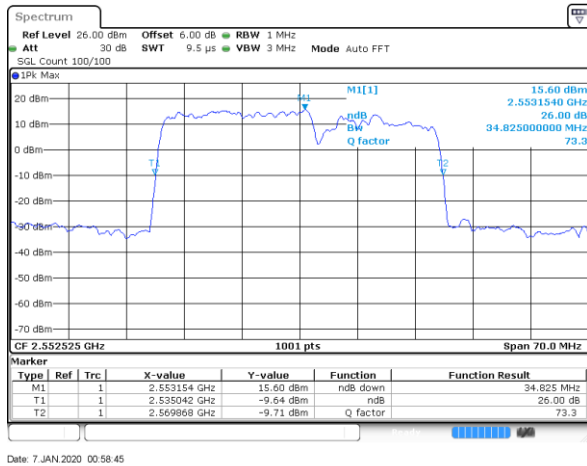
Middle Channel / 20MHz+15MHz



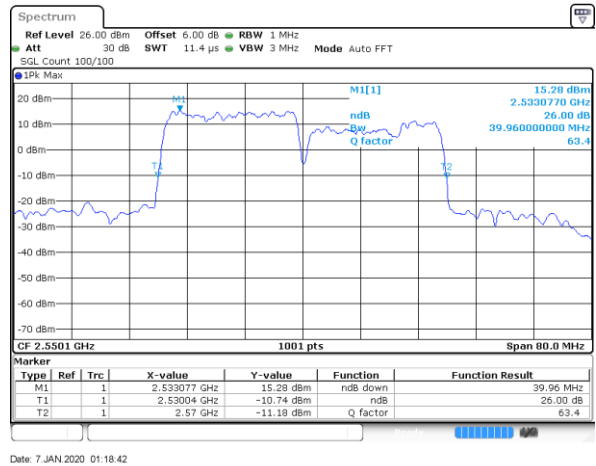
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz



Highest Channel / 20MHz+20MHz



**Occupied Bandwidth**

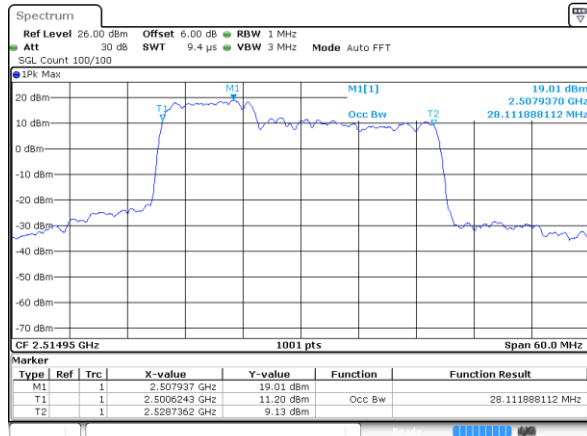
Mode	LTE Band 7 CA : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	28.11		23.43	28.47
Middle CH	27.87		23.23	28.29
Highest CH	27.87		23.38	28.41
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.66	27.75	33.01	37.56
Middle CH	32.80	27.99	32.73	37.64
Highest CH	32.73	28.11	32.59	37.32

Mode	LTE Band 7 CA : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.93		23.23	28.65
Middle CH	27.93		23.38	28.59
Highest CH	27.93		23.48	28.59
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.59	27.93	32.45	37.72
Middle CH	32.66	28.05	32.80	37.32
Highest CH	32.52	27.69	32.87	37.48

Mode	LTE Band 7 CA : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+5MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	27.63		23.23	28.59
Middle CH	27.63		23.48	28.47
Highest CH	27.87		23.53	28.29
BW	15MHz+20MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	32.94	27.75	32.80	37.56
Middle CH	32.94	28.11	32.66	37.48
Highest CH	32.45	27.99	32.94	37.56

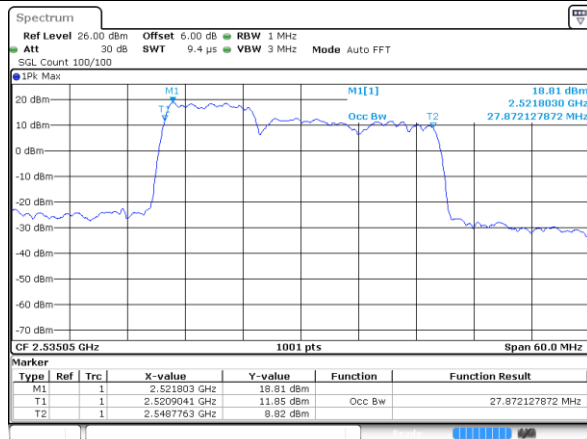


Lowest Channel / 10MHz+20MHz



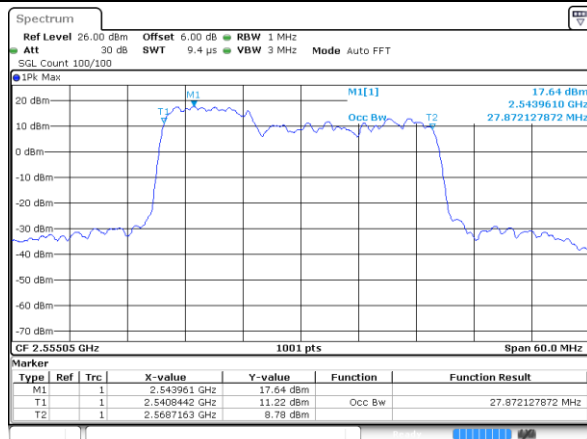
Date: 5 JAN 2020 02:35:51

Middle Channel / 10MHz+20MHz



Date: 5 JAN 2020 02:38:48

Highest Channel / 10MHz+20MHz



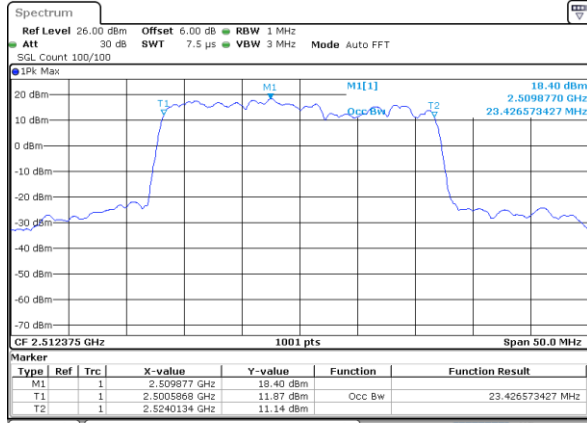
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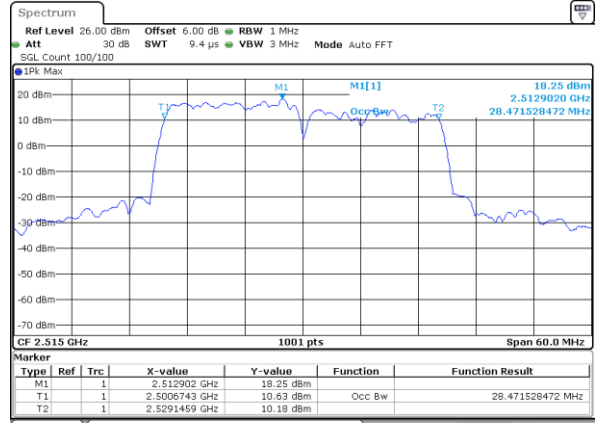
LTE Band 7 CA

QPSK

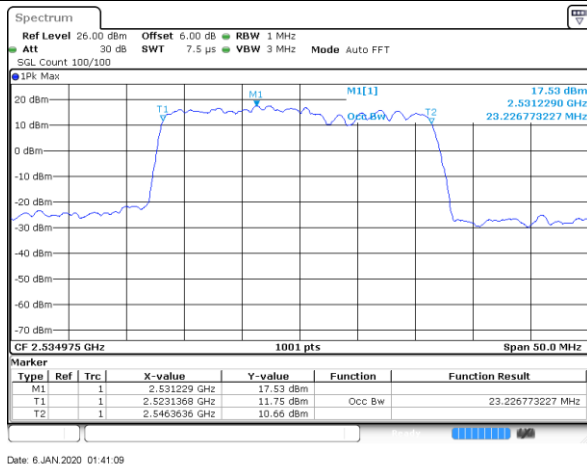
Lowest Channel / 15MHz+10MHz



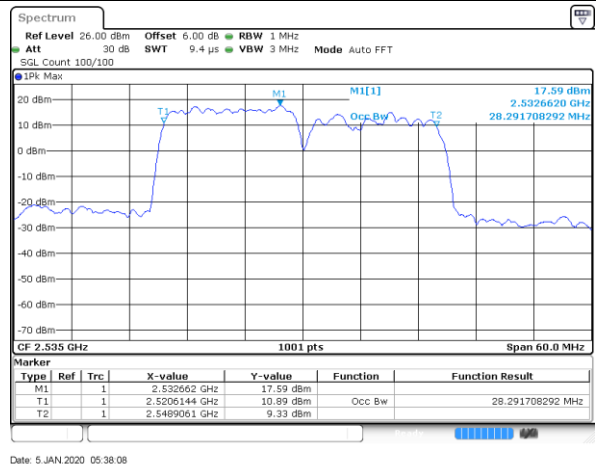
Lowest Channel / 15MHz+15MHz



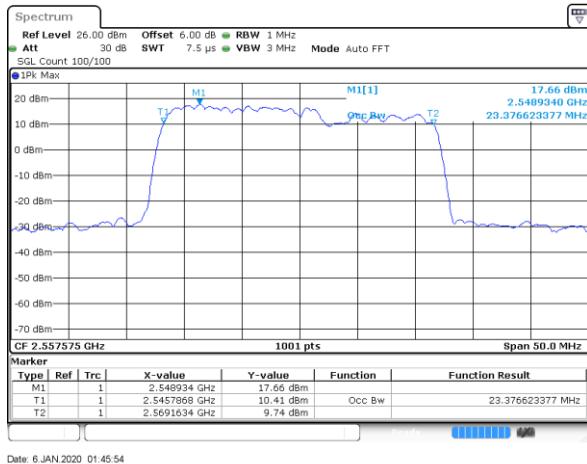
Middle Channel / 15MHz+10MHz



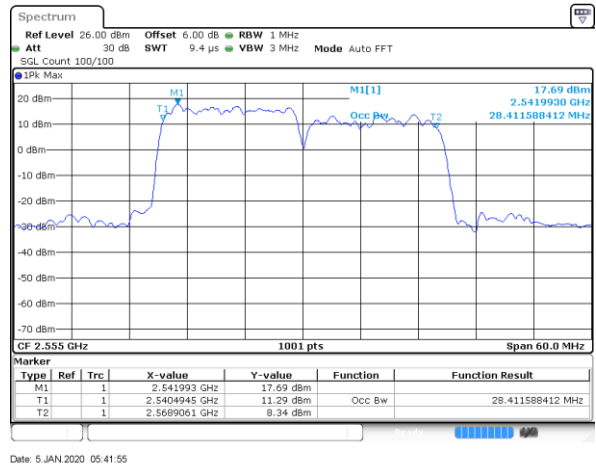
Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

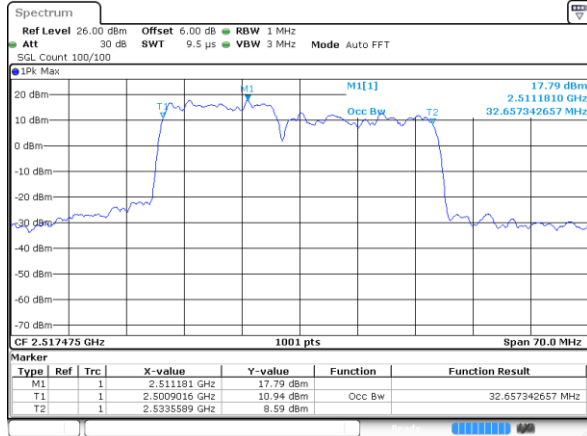




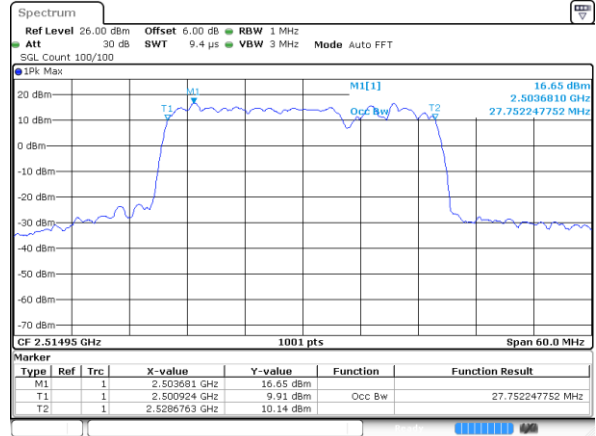
LTE Band 7 CA

QPSK

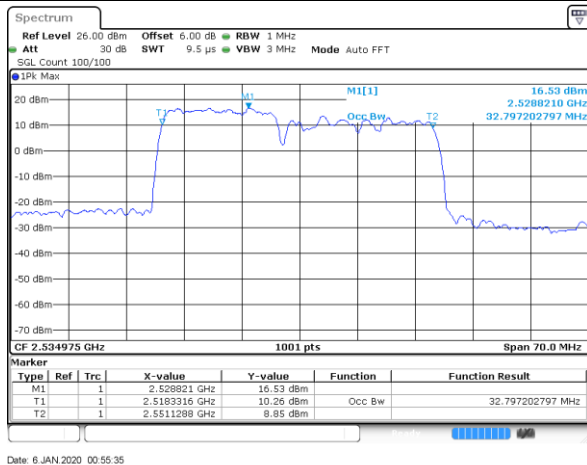
Lowest Channel / 15MHz+20MHz



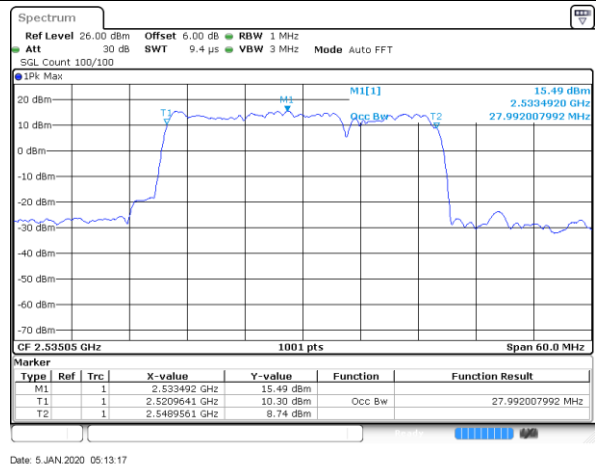
Lowest Channel / 20MHz+10MHz



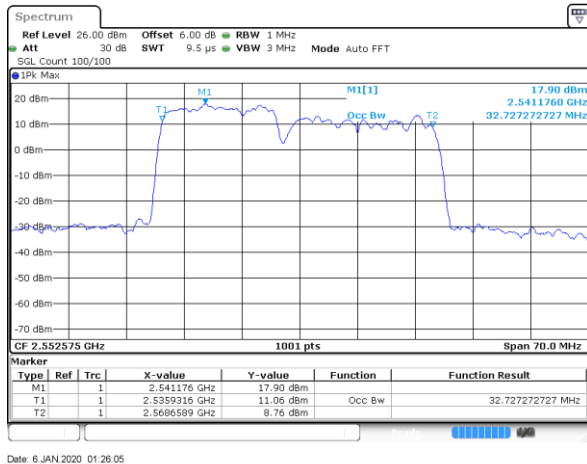
Middle Channel / 15MHz+20MHz



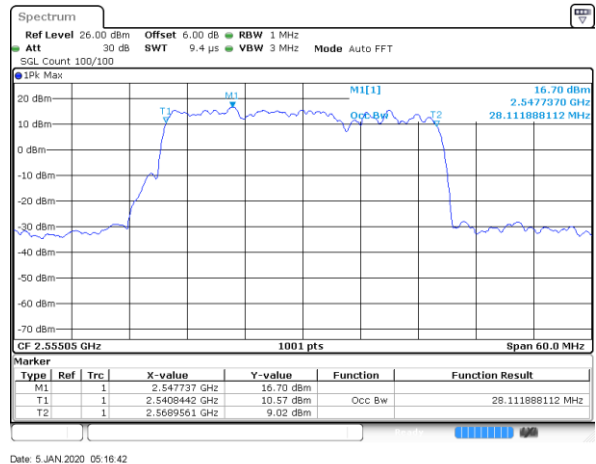
Middle Channel / 20MHz+10MHz



Highest Channel / 15MHz+20MHz



Highest Channel / 20MHz+10MHz

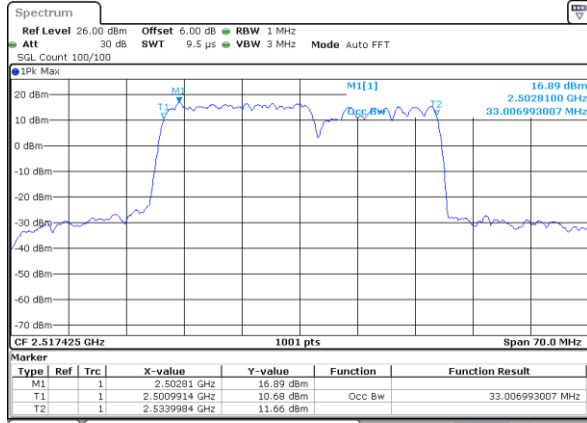




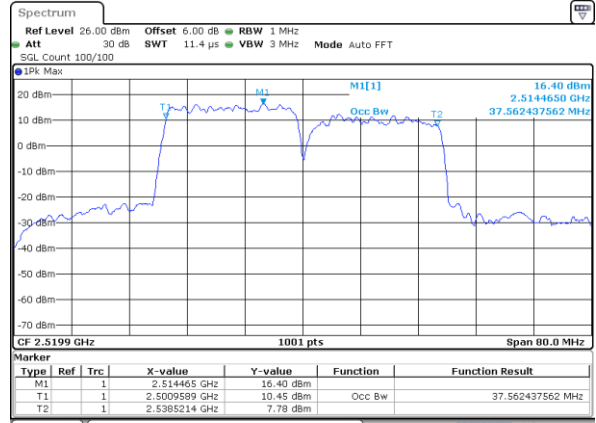
LTE Band 7 CA

QPSK

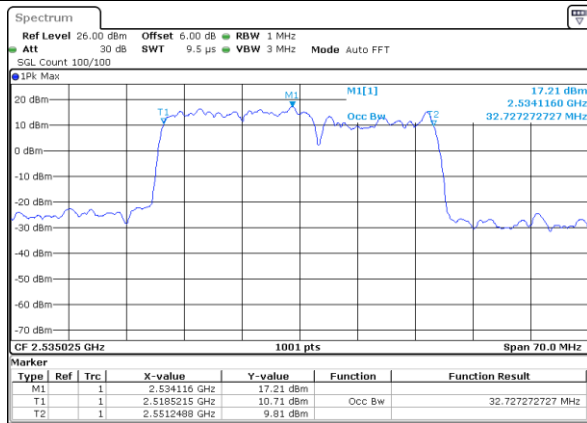
Lowest Channel / 20MHz+15MHz



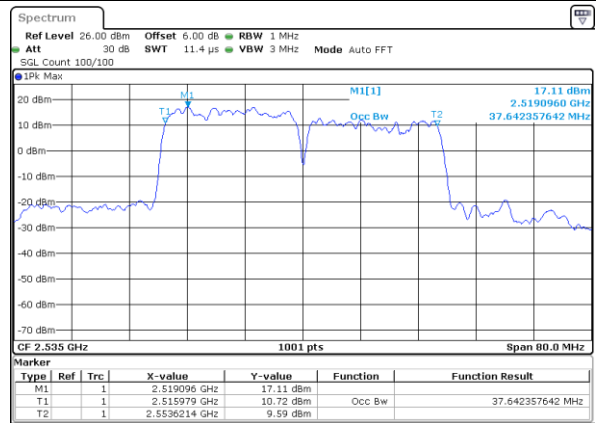
Lowest Channel / 20MHz+20MHz



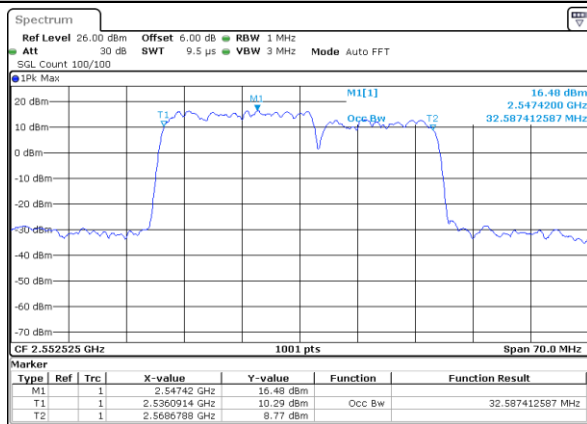
Middle Channel / 20MHz+15MHz



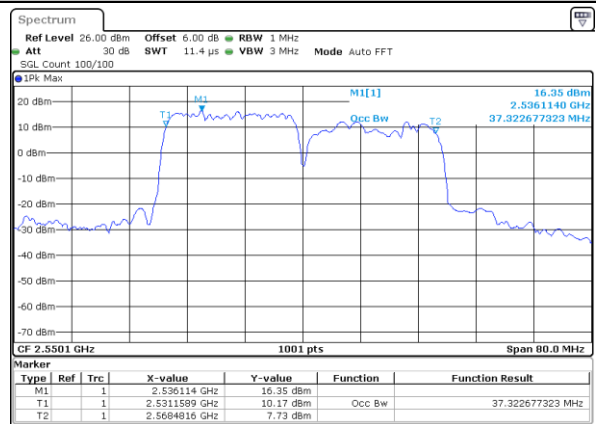
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz

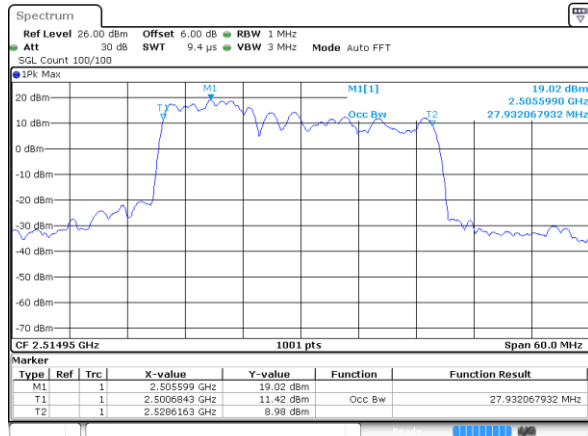


Highest Channel / 20MHz+20MHz

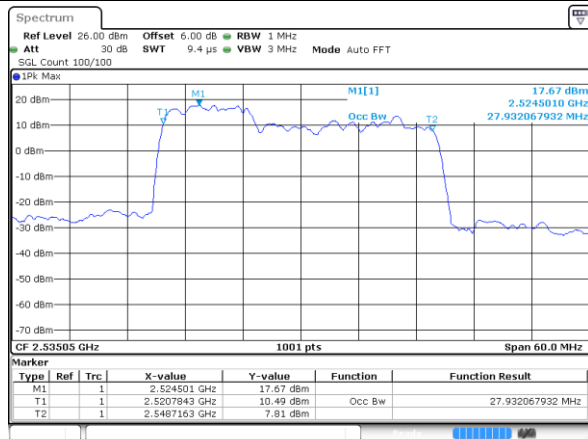




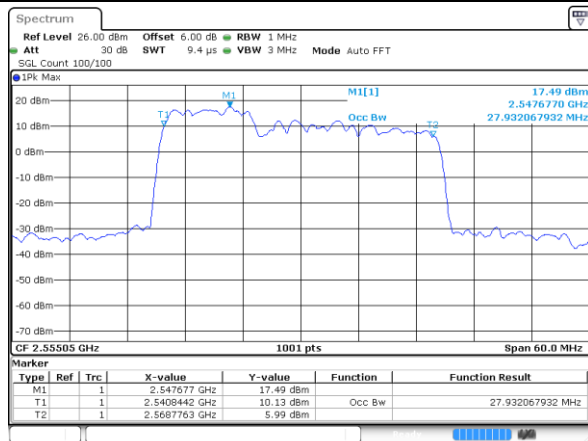
Lowest Channel / 10MHz+20MHz



Middle Channel / 10MHz+20MHz



Highest Channel / 10MHz+20MHz

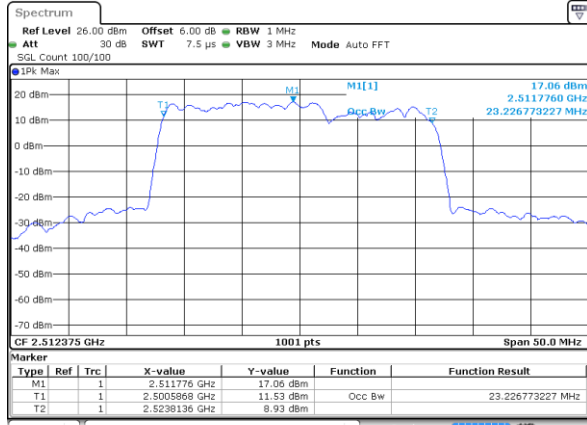




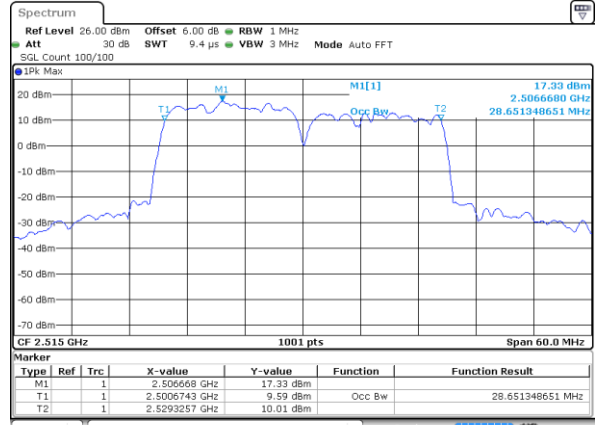
LTE Band 7 CA

16QAM

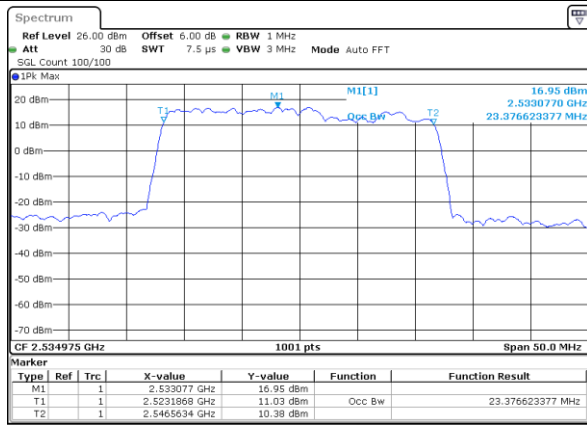
Lowest Channel / 15MHz+10MHz



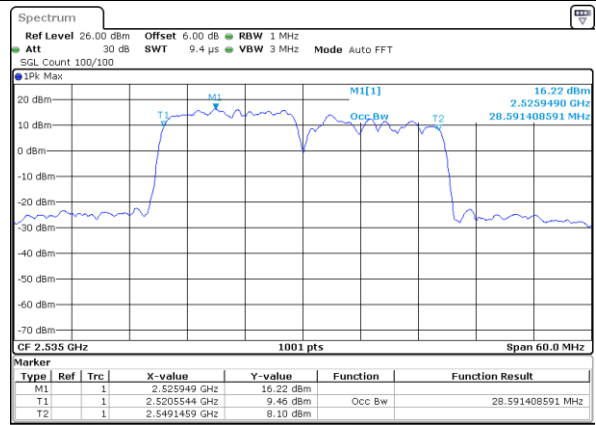
Lowest Channel / 15MHz+15MHz



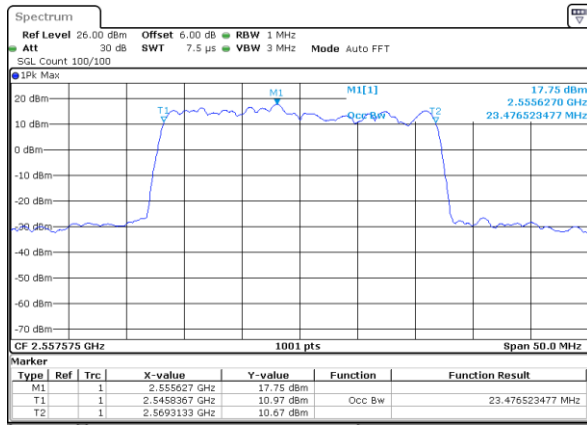
Middle Channel / 15MHz+10MHz



Middle Channel / 15MHz+15MHz



Highest Channel / 15MHz+10MHz



Highest Channel / 15MHz+15MHz

