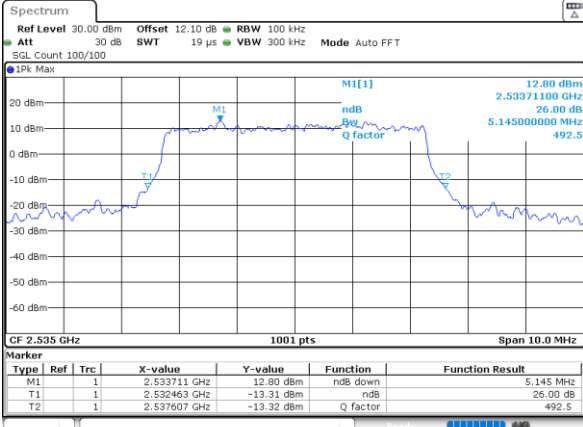




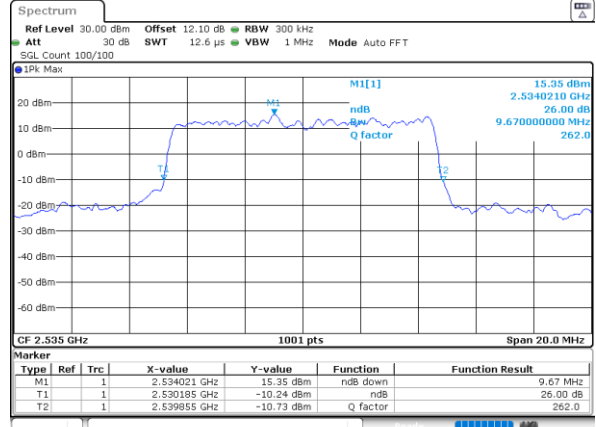
LTE Band 7

Middle Channel / 5MHz / 256QAM



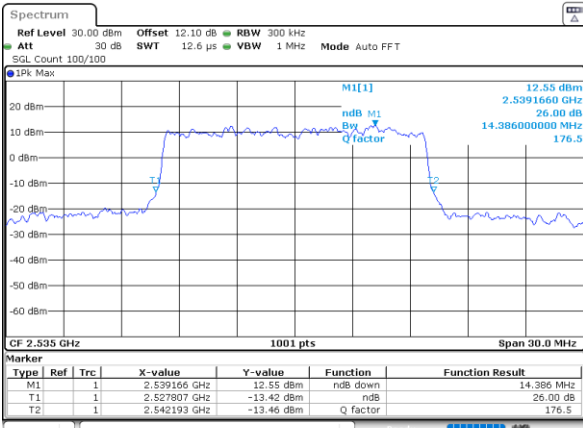
Date: 1,DEC,2022 13:27:58

Middle Channel / 10MHz / 256QAM



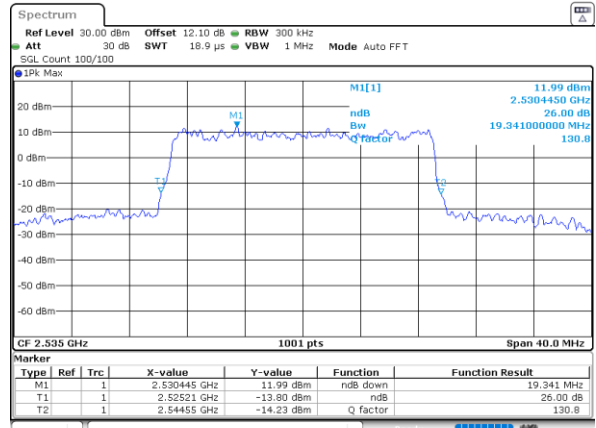
Date: 1,DEC,2022 13:31:43

Middle Channel / 15MHz / 256QAM



Date: 1,DEC,2022 13:34:30

Middle Channel / 20MHz / 256QAM



Date: 1,DEC,2022 13:37:17



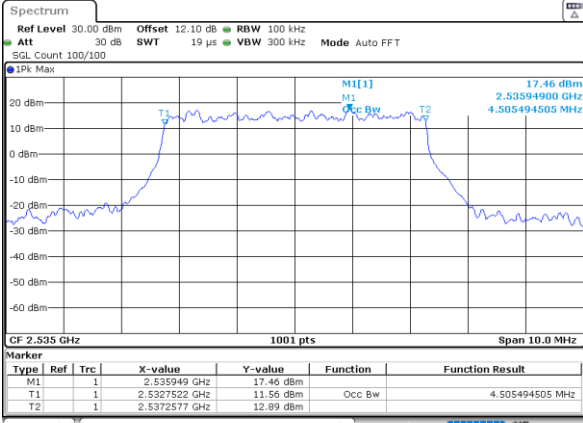
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.51	4.54	9.09	9.07	13.46	13.55	17.98	17.90
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.50	4.52	9.07	8.97	13.55	13.46	17.94	17.94



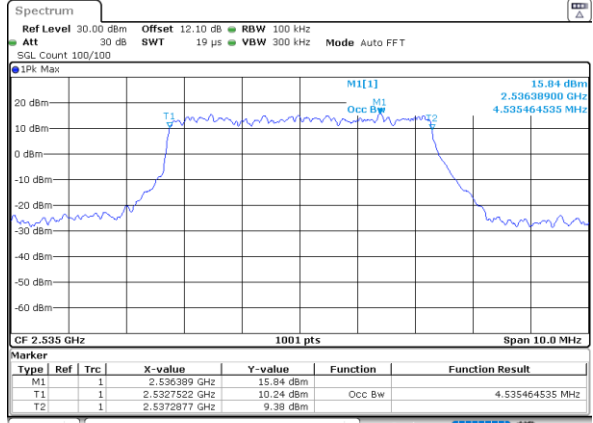
LTE Band 7

Middle Channel / 5MHz / QPSK



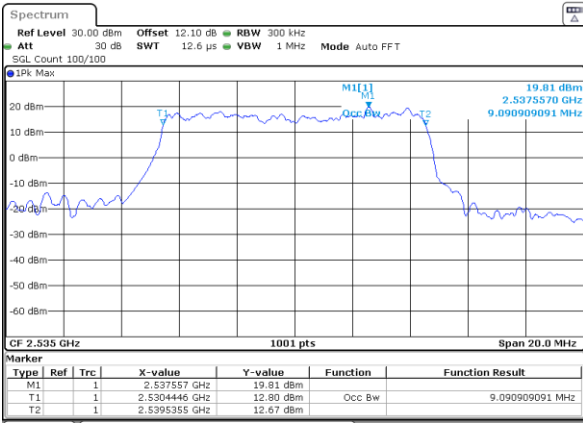
Date: 1.DEC.2022 12:44:53

Middle Channel / 5MHz / 16QAM



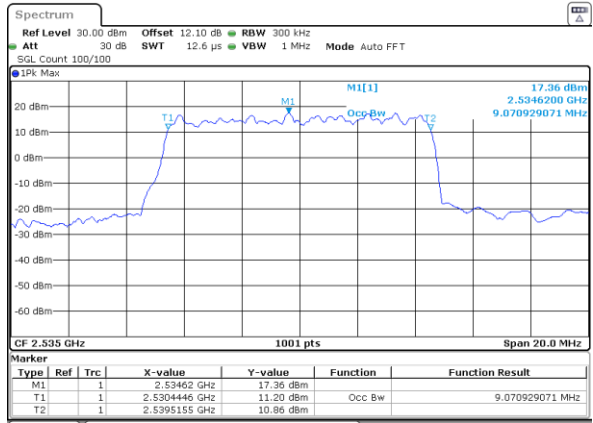
Date: 1.DEC.2022 12:45:22

Middle Channel / 10MHz / QPSK



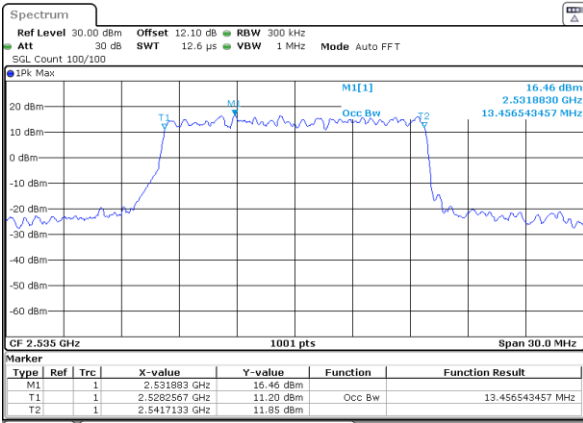
Date: 1.DEC.2022 13:00:11

Middle Channel / 10MHz / 16QAM



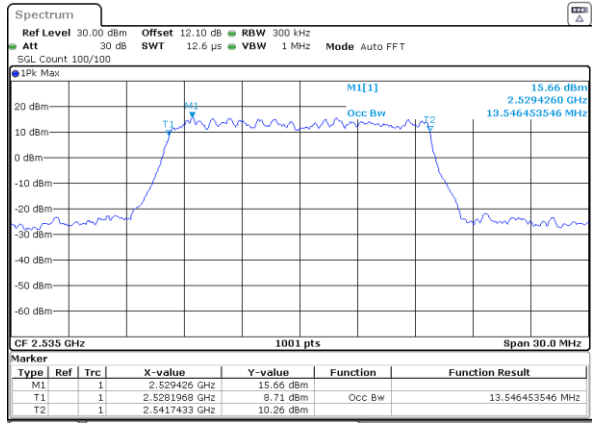
Date: 1.DEC.2022 13:00:39

Middle Channel / 15MHz / QPSK



Date: 1.DEC.2022 13:08:50

Middle Channel / 15MHz / 16QAM

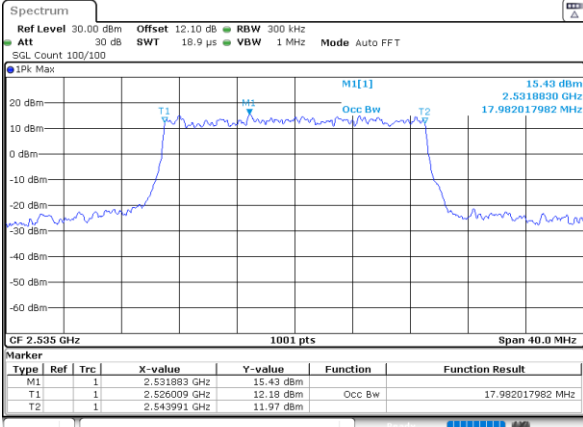


Date: 1.DEC.2022 13:09:19



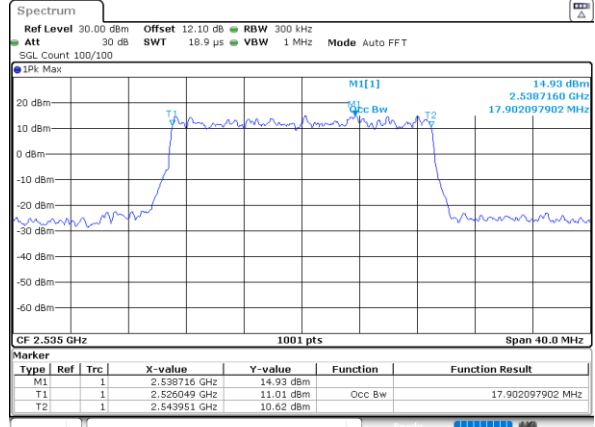
LTE Band 7

Middle Channel / 20MHz / QPSK



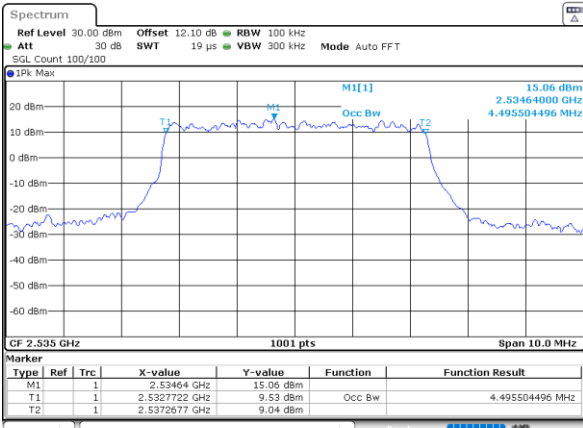
Date: 1.DEC.2022 13:17:31

Middle Channel / 20MHz / 16QAM



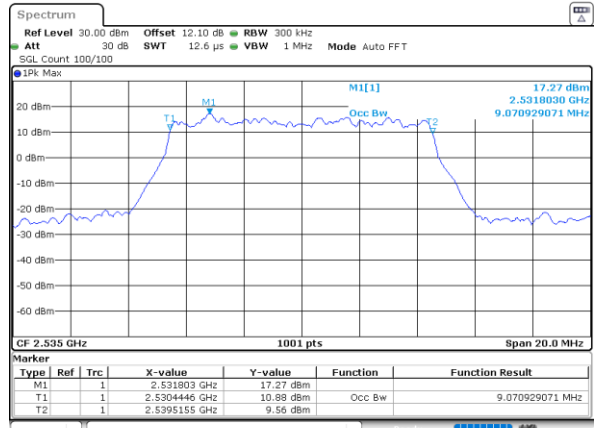
Date: 1.DEC.2022 13:17:59

Middle Channel / 5MHz / 64QAM



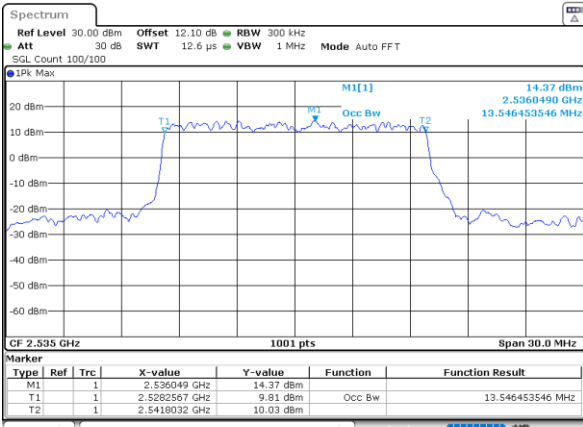
Date: 1.DEC.2022 12:55:25

Middle Channel / 10MHz / 64QAM



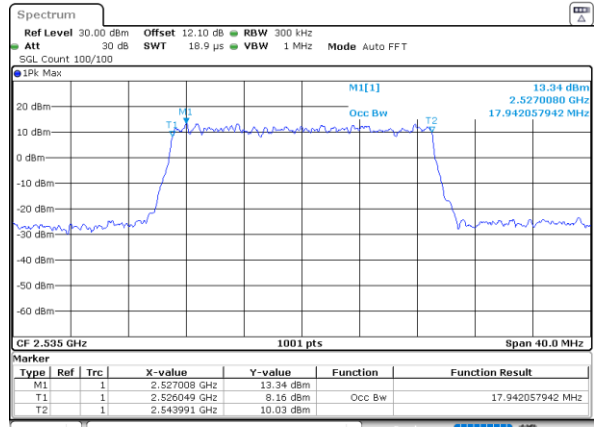
Date: 1.DEC.2022 13:05:04

Middle Channel / 15MHz / 64QAM



Date: 1.DEC.2022 13:13:44

Middle Channel / 20MHz / 64QAM

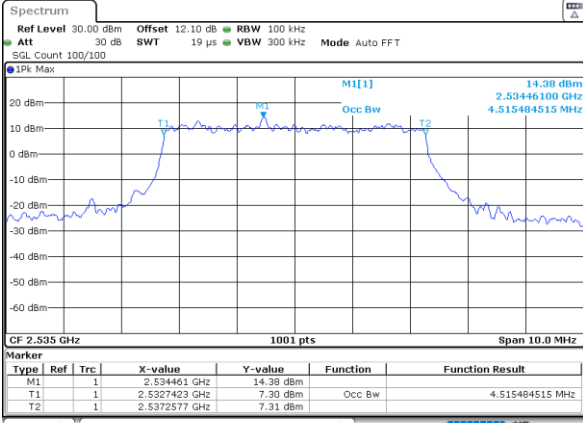


Date: 1.DEC.2022 13:22:24



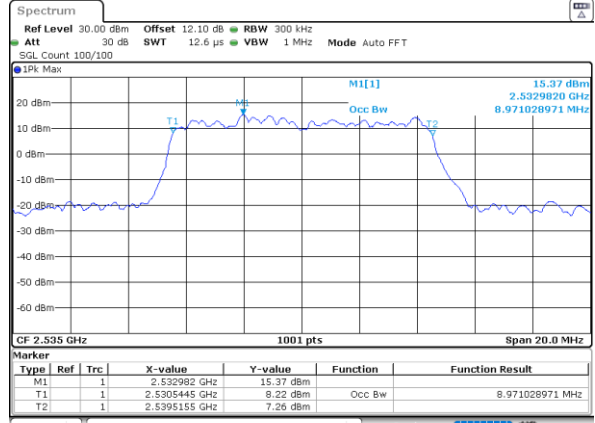
LTE Band 7

Middle Channel / 5MHz / 256QAM



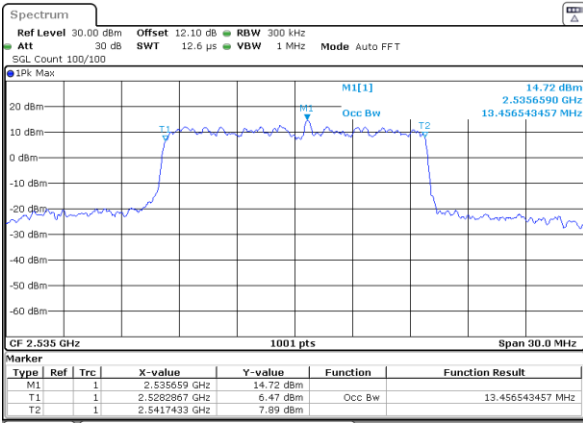
Date: 1,DEC,2022 13:27:43

Middle Channel / 10MHz / 256QAM



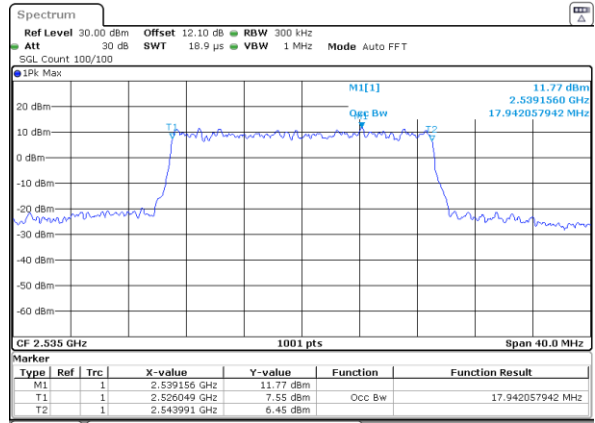
Date: 1,DEC,2022 13:31:29

Middle Channel / 15MHz / 256QAM



Date: 1,DEC,2022 13:34:16

Middle Channel / 20MHz / 256QAM



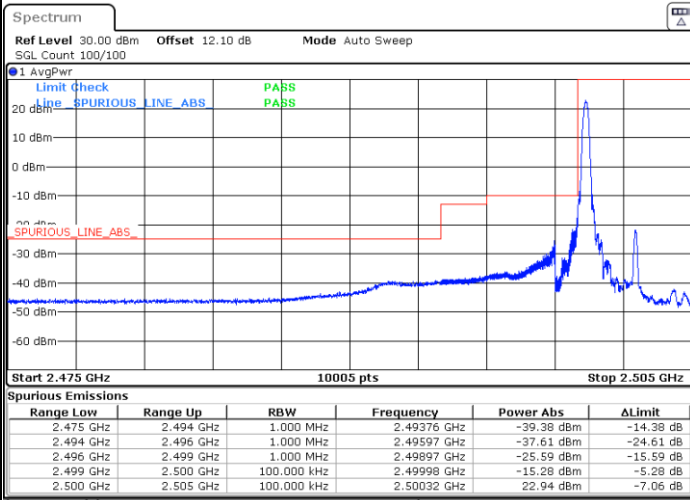
Date: 1,DEC,2022 13:37:02



Conducted Band Edge

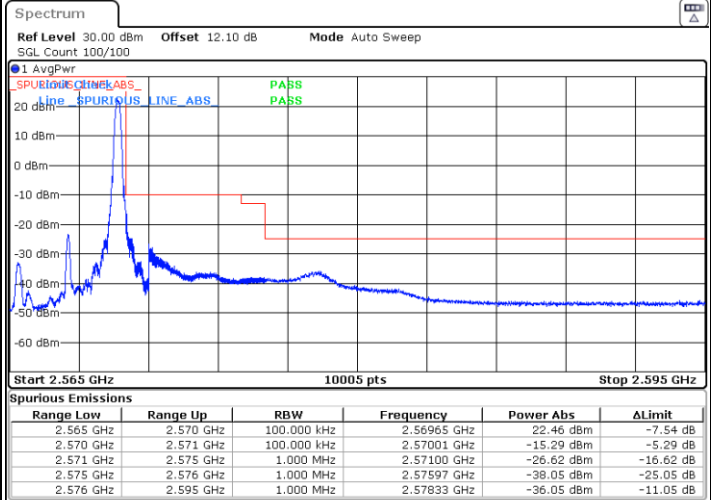
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



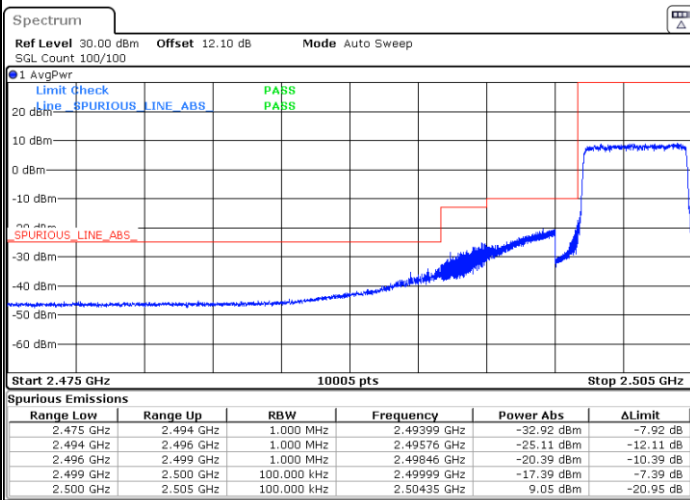
Date: 1.DEC.2022 12:40:05

Highest Band Edge / 1 RB



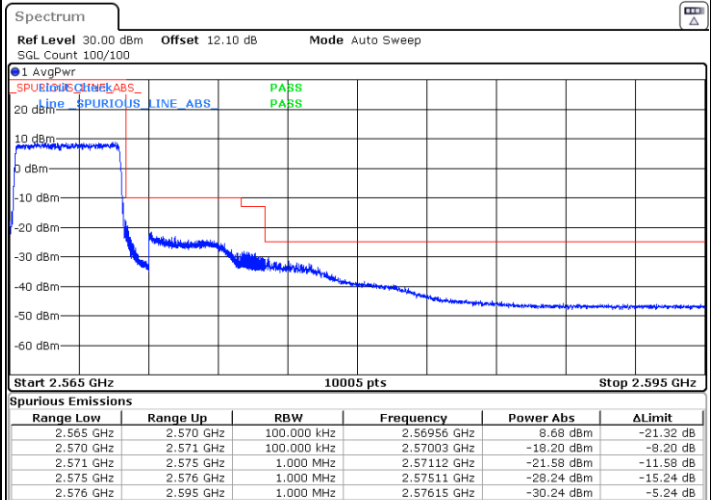
Date: 1.DEC.2022 12:48:35

Lowest Band Edge / Full RB



Date: 1.DEC.2022 12:42:04

Highest Band Edge / Full RB

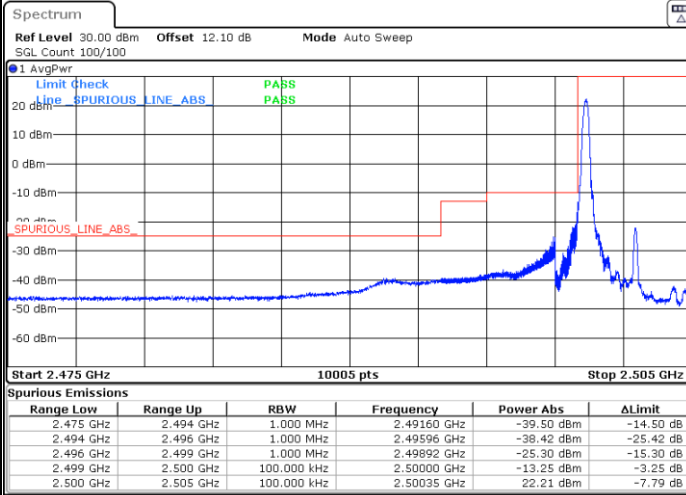


Date: 1.DEC.2022 12:50:37



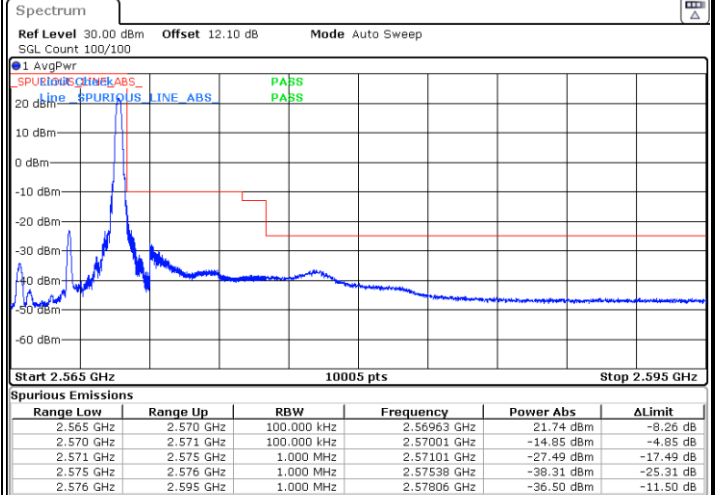
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



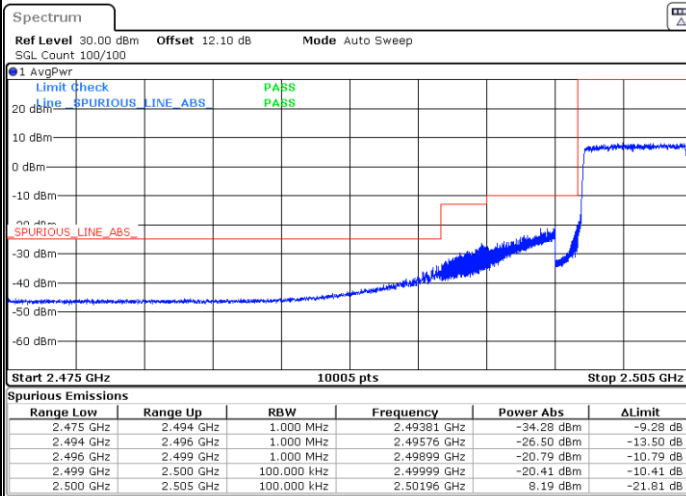
Date: 1.DEC.2022 12:41:04

Highest Band Edge / 1 RB



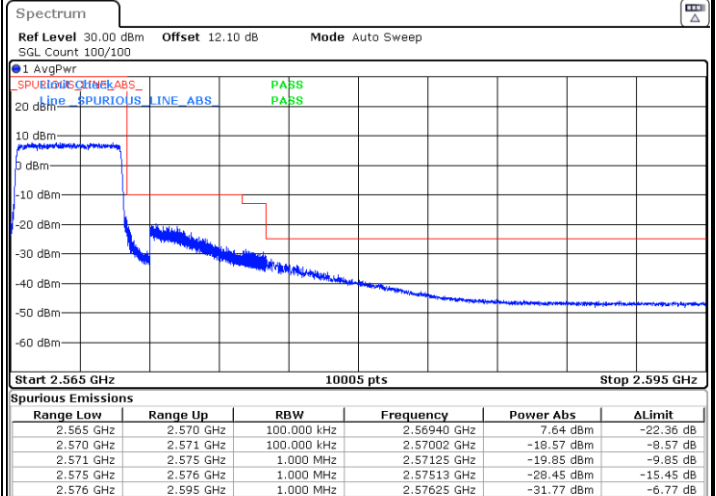
Date: 1.DEC.2022 12:49:34

Lowest Band Edge / Full RB



Date: 1.DEC.2022 12:43:04

Highest Band Edge / Full RB

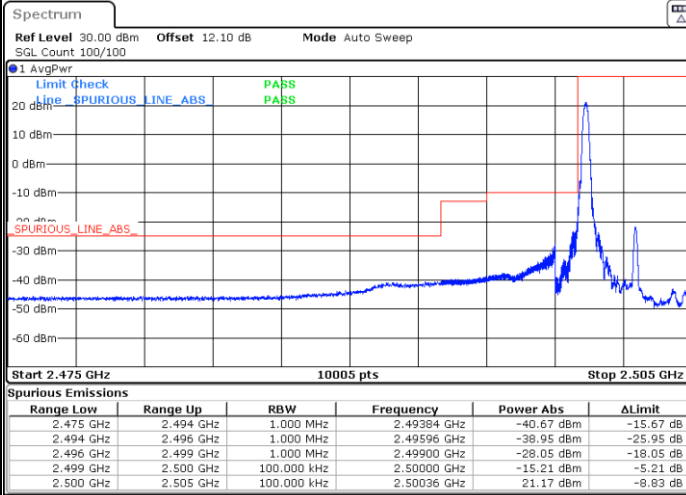


Date: 1.DEC.2022 12:51:36



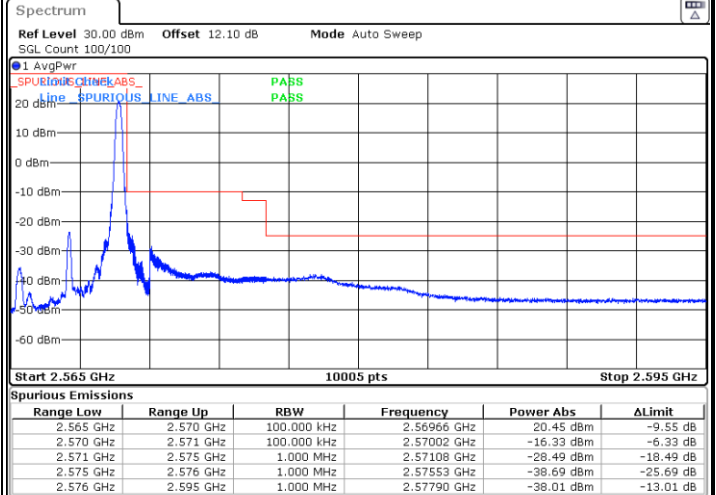
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



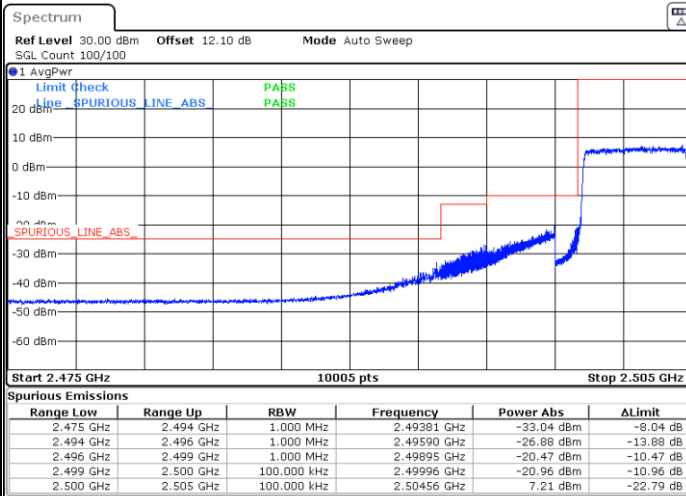
Date: 1.DEC.2022 12:53:55

Highest Band Edge / 1 RB



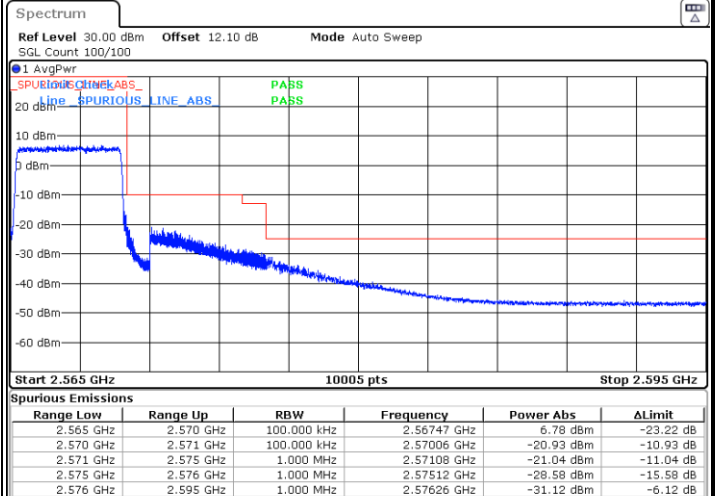
Date: 1.DEC.2022 12:56:37

Lowest Band Edge / Full RB



Date: 1.DEC.2022 12:54:55

Highest Band Edge / Full RB

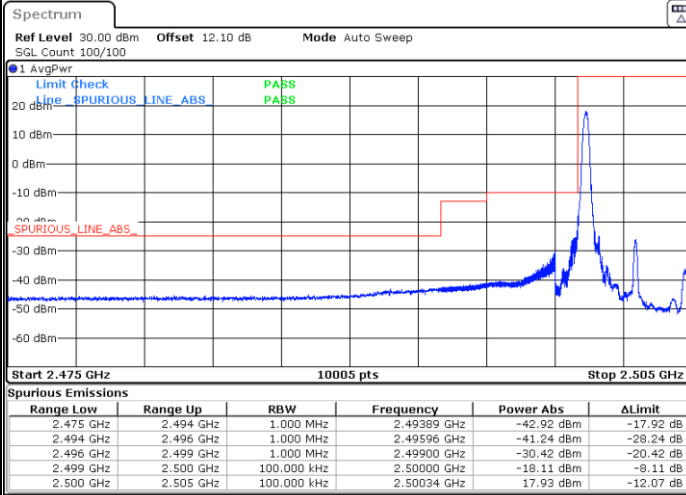


Date: 1.DEC.2022 12:57:37



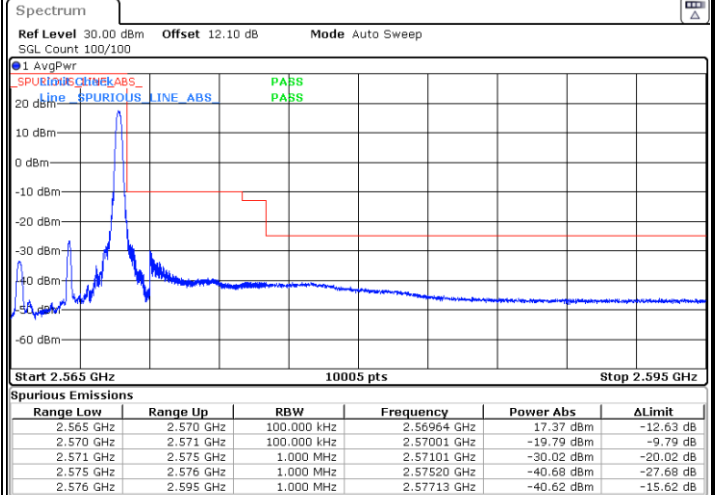
LTE Band 7 / 5MHz / 256QAM

Lowest Band Edge / 1RB



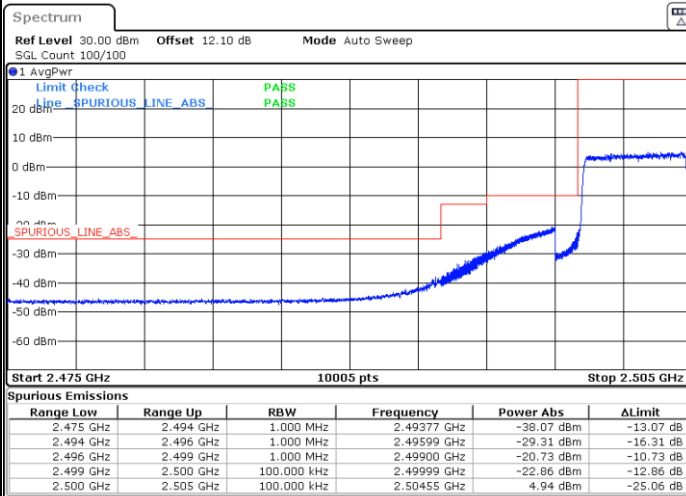
Date: 1.DEC.2022 13:26:14

Highest Band Edge / 1 RB



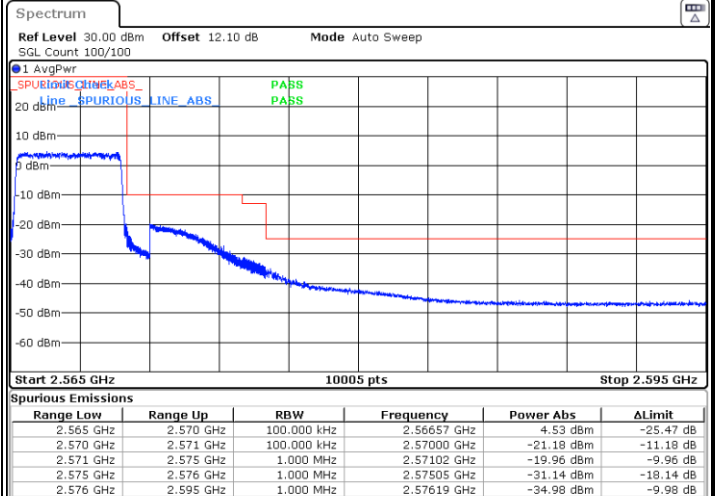
Date: 1.DEC.2022 13:28:56

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:27:14

Highest Band Edge / Full RB

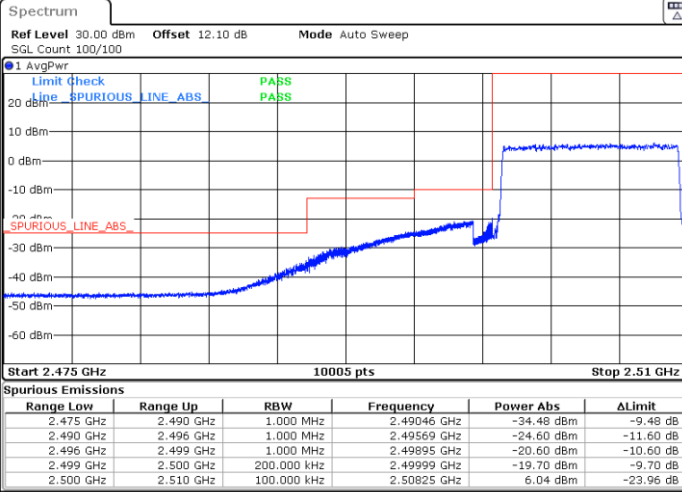


Date: 1.DEC.2022 13:29:55



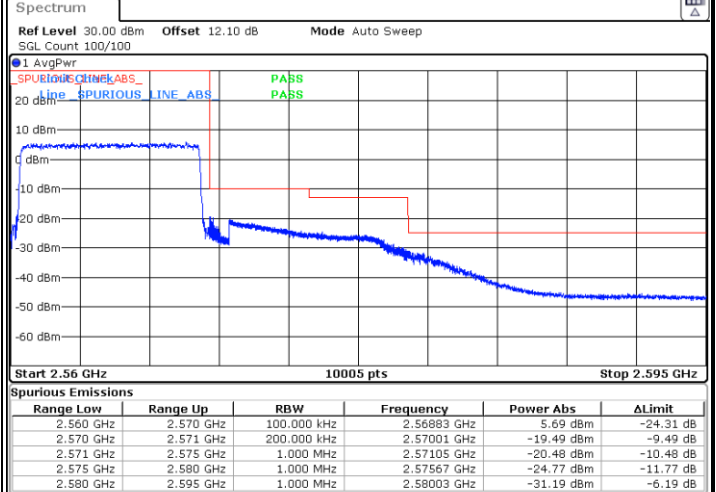
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.DEC.2022 12:58:41

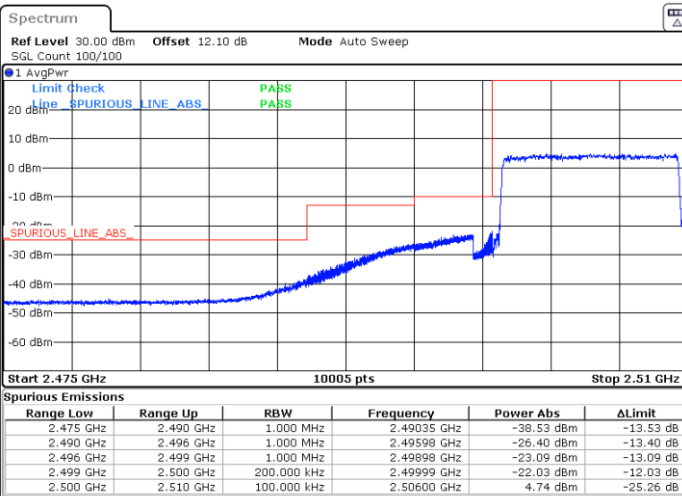
Highest Band Edge / Full RB



Date: 1.DEC.2022 13:02:35

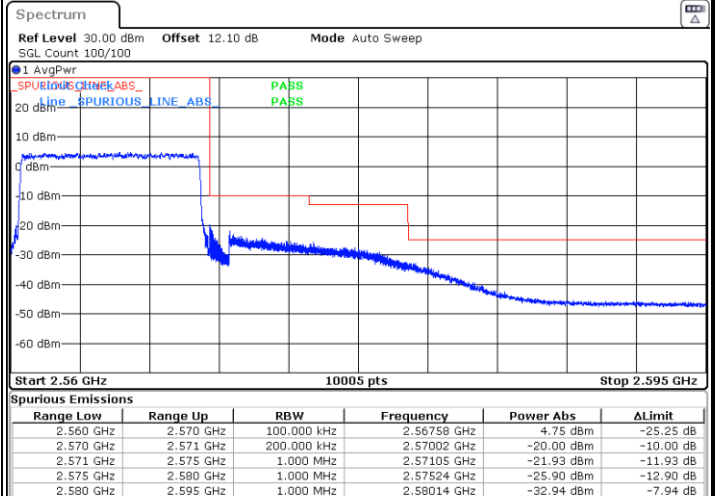
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.DEC.2022 12:59:40

Highest Band Edge / Full RB

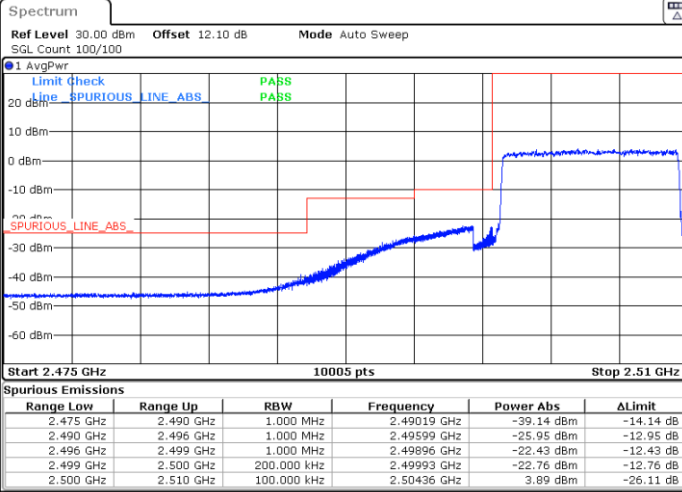


Date: 1.DEC.2022 13:03:35



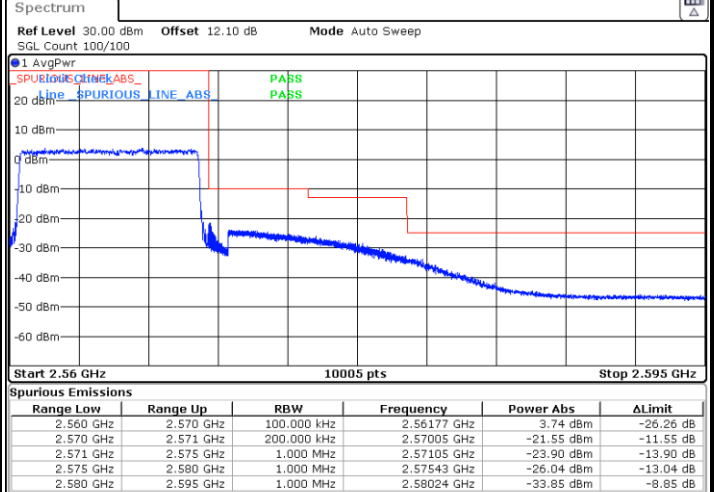
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:04:34

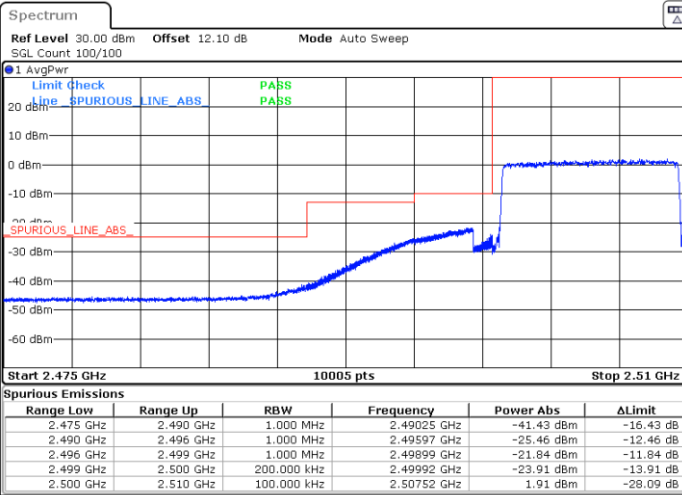
Highest Band Edge / Full RB



Date: 1.DEC.2022 13:06:16

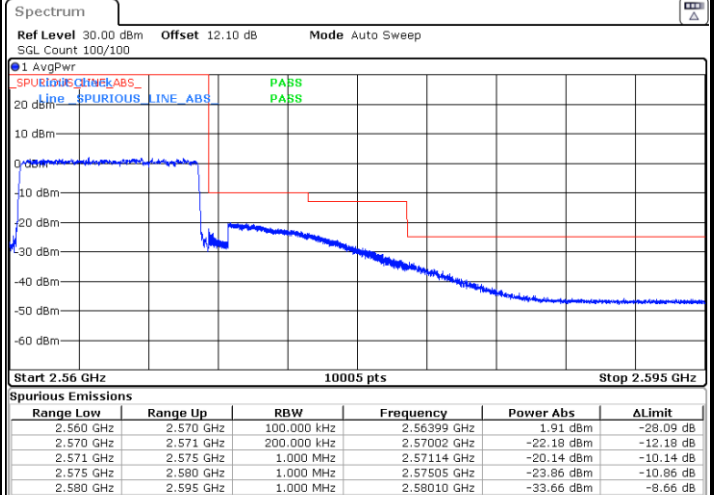
LTE Band 7 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:30:59

Highest Band Edge / Full RB

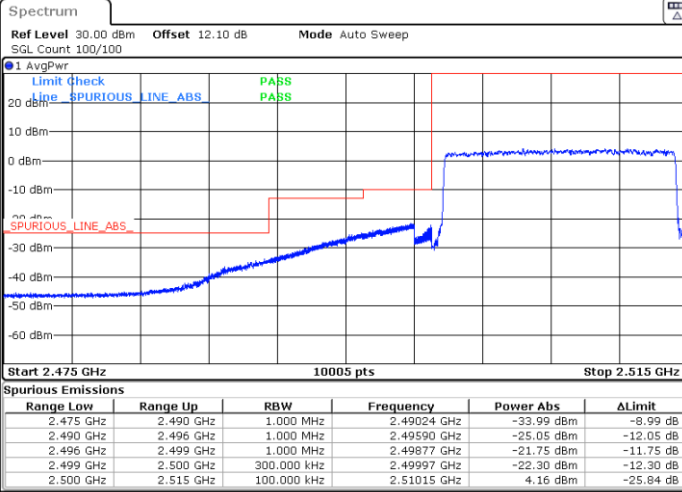


Date: 1.DEC.2022 13:32:41



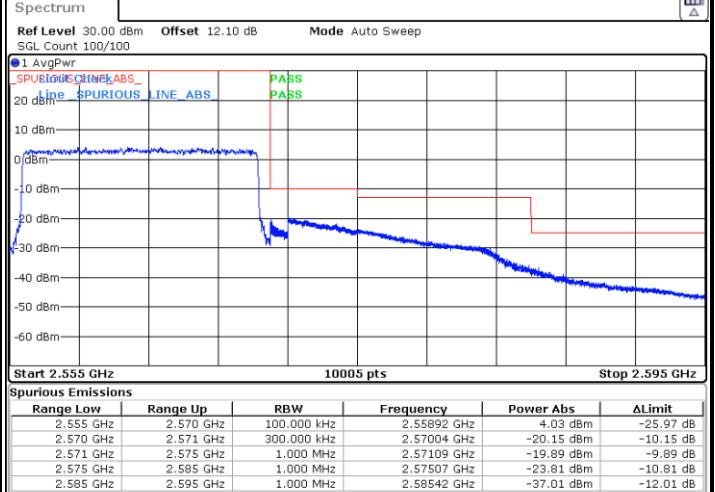
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:07:21

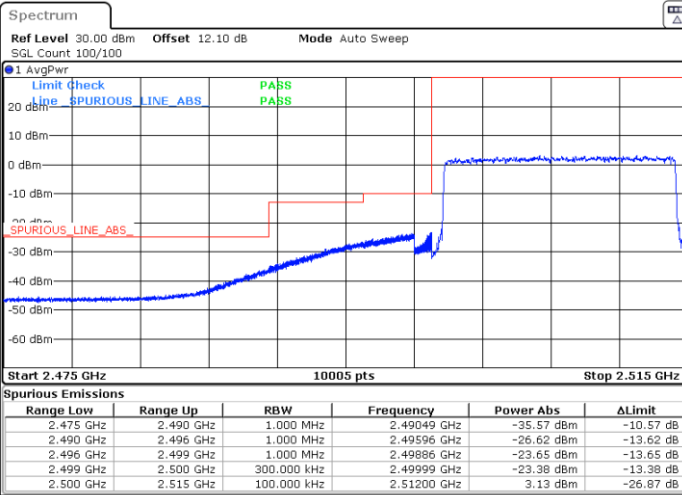
Highest Band Edge / Full RB



Date: 1.DEC.2022 13:11:15

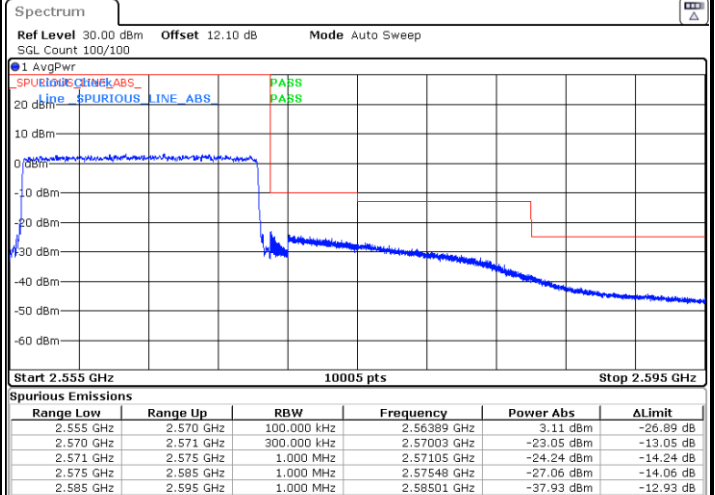
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:08:20

Highest Band Edge / Full RB

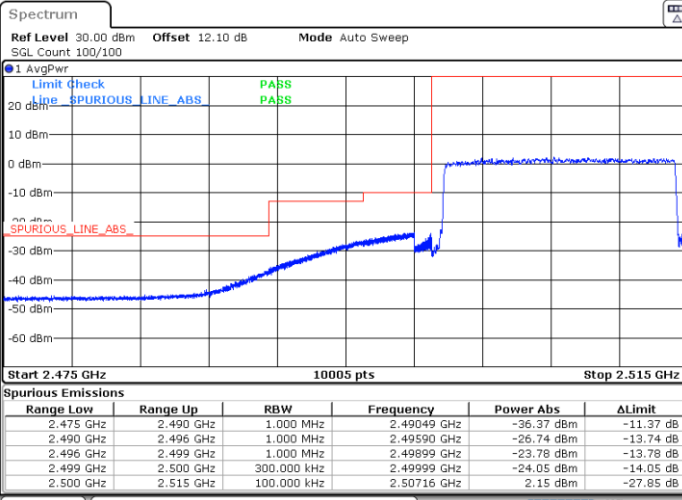


Date: 1.DEC.2022 13:12:14



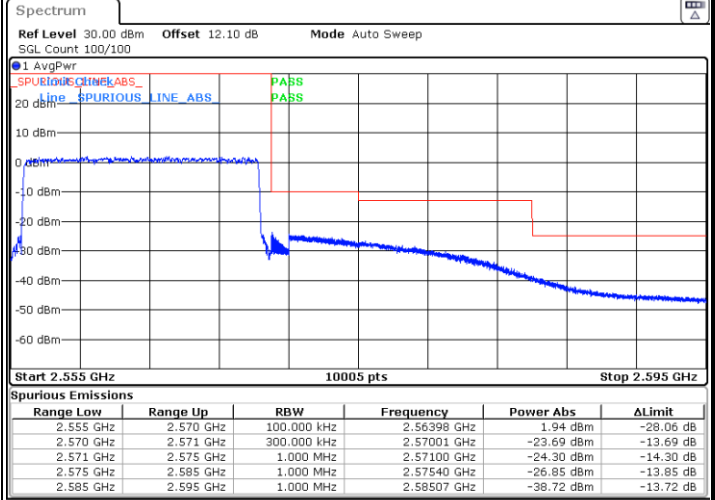
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:13:14

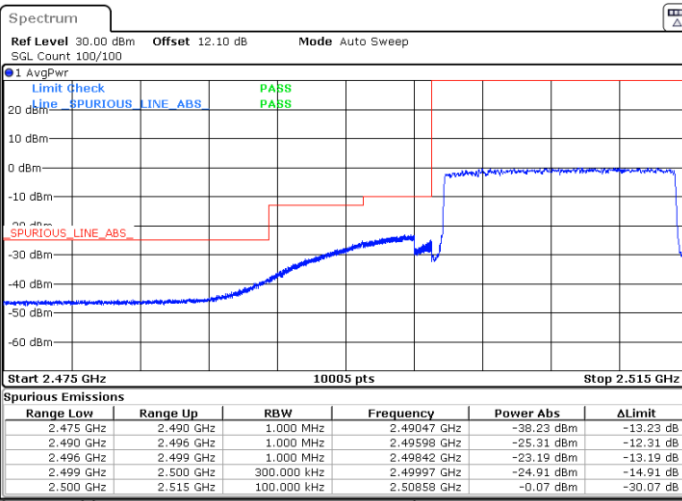
Highest Band Edge / Full RB



Date: 1.DEC.2022 13:14:56

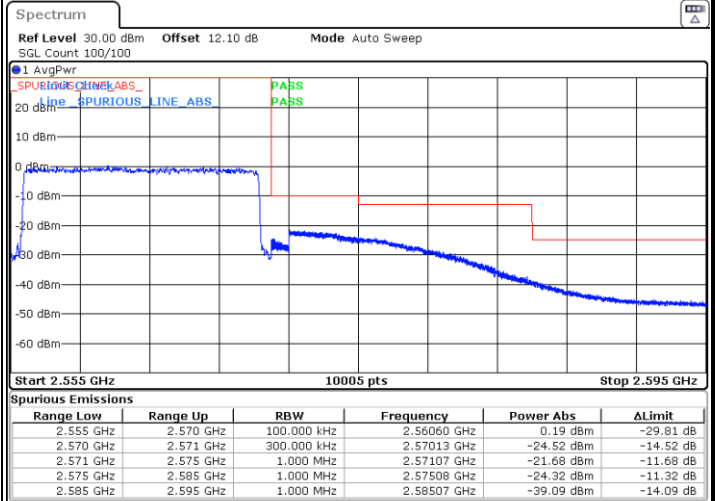
LTE Band 7 / 15MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:33:16

Highest Band Edge / Full RB

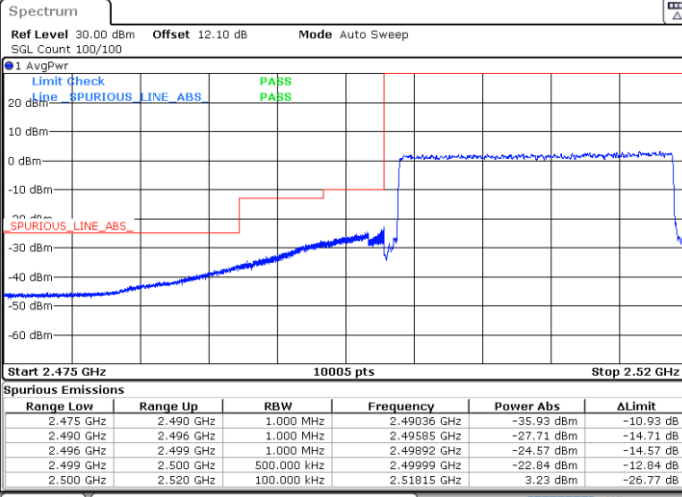


Date: 1.DEC.2022 13:35:28



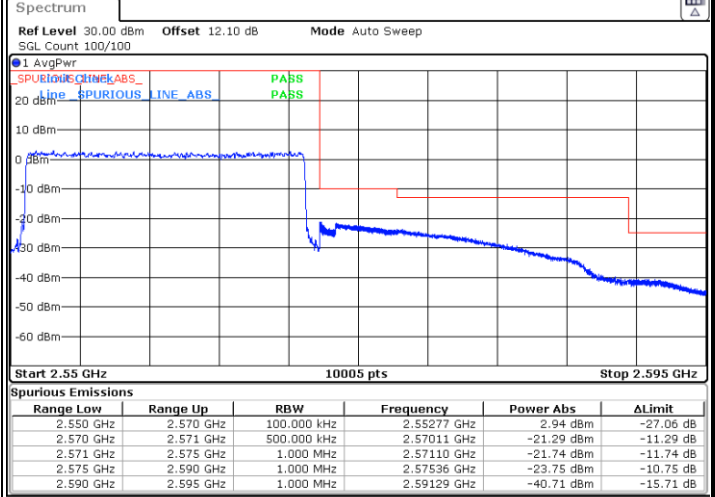
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:16:01

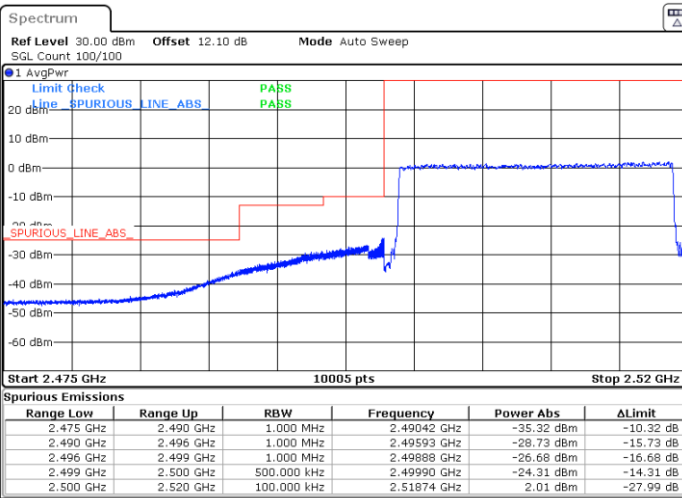
Highest Band Edge / Full RB



Date: 1.DEC.2022 13:20:54

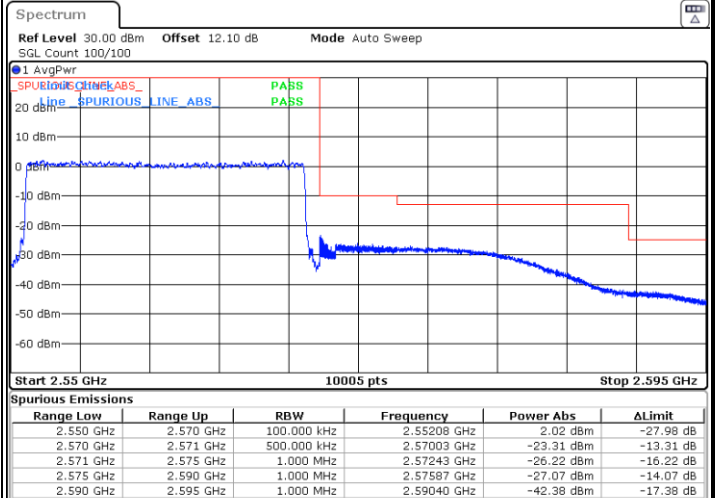
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:17:01

Highest Band Edge / Full RB

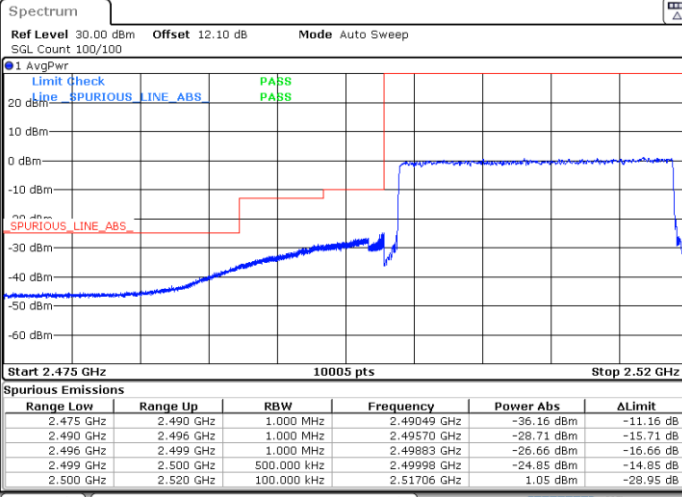


Date: 1.DEC.2022 13:19:55



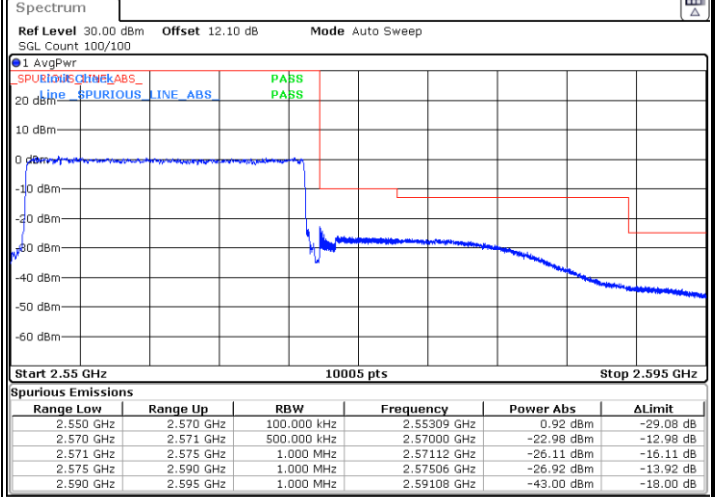
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:21:54

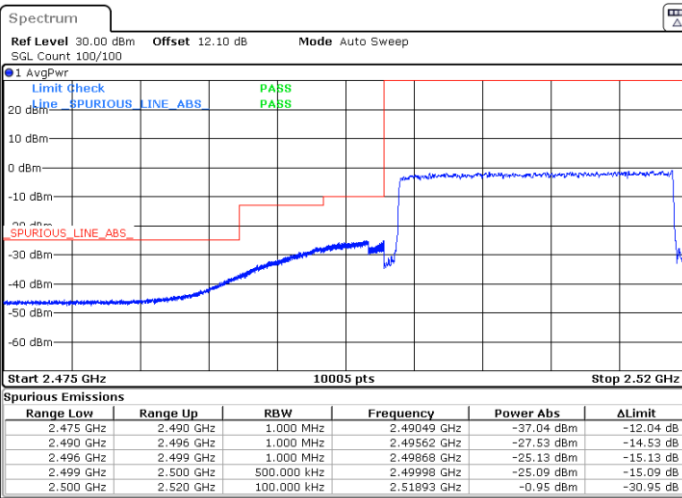
Highest Band Edge / Full RB



Date: 1.DEC.2022 13:23:36

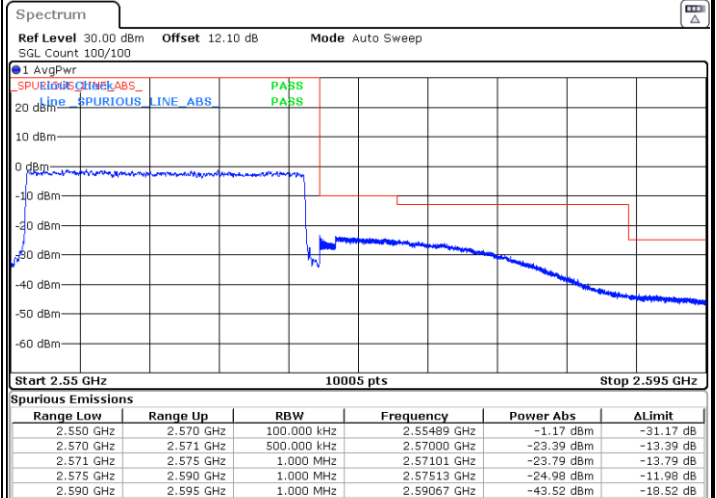
LTE Band 7 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.DEC.2022 13:36:13

Highest Band Edge / Full RB



Date: 1.DEC.2022 13:38:15



Conducted Spurious Emission

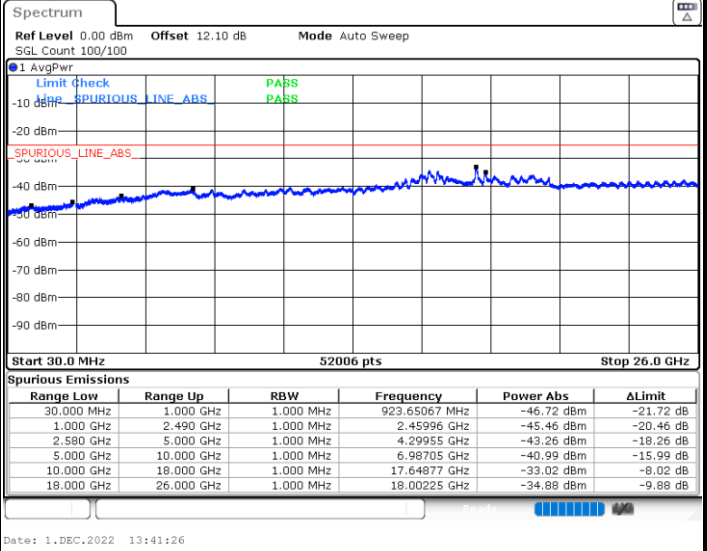
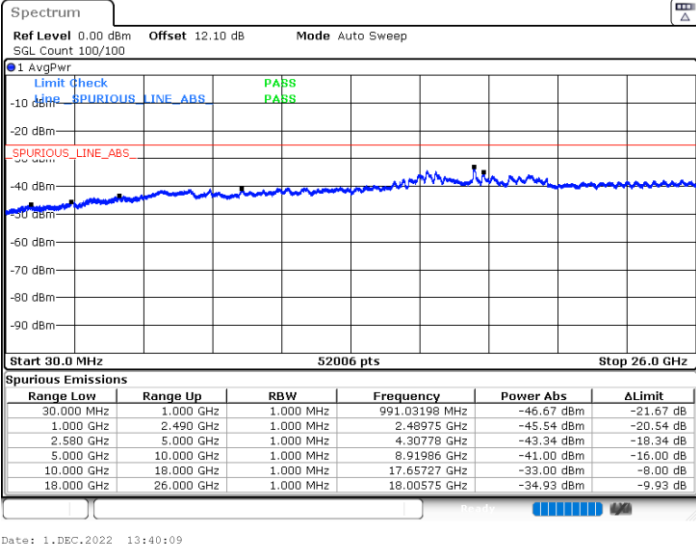




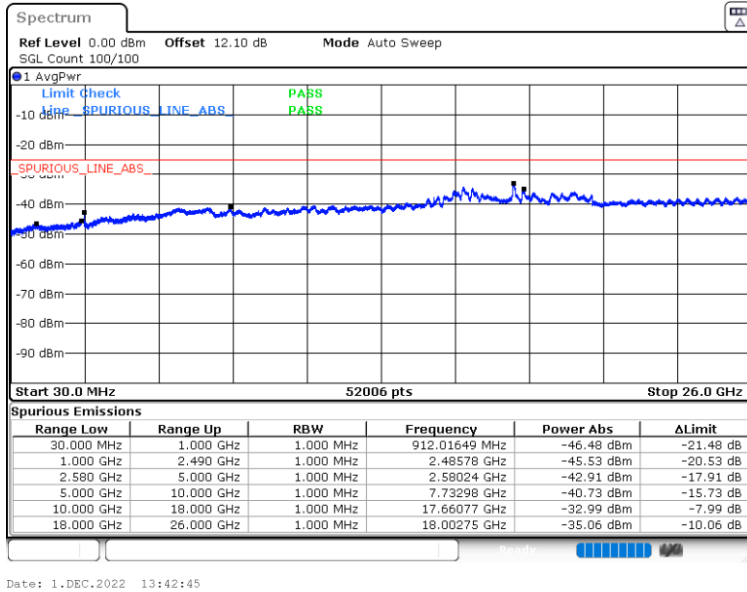
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

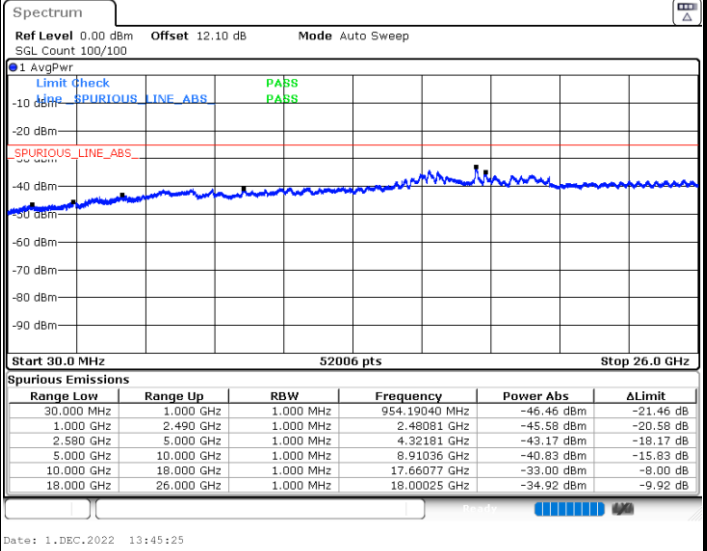
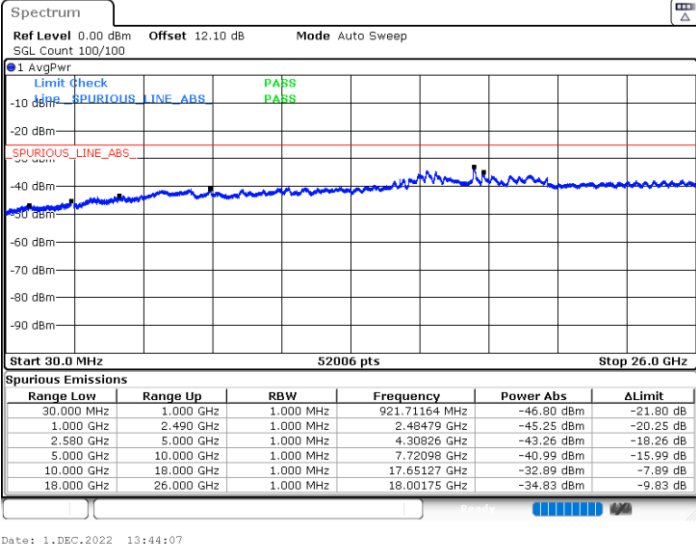




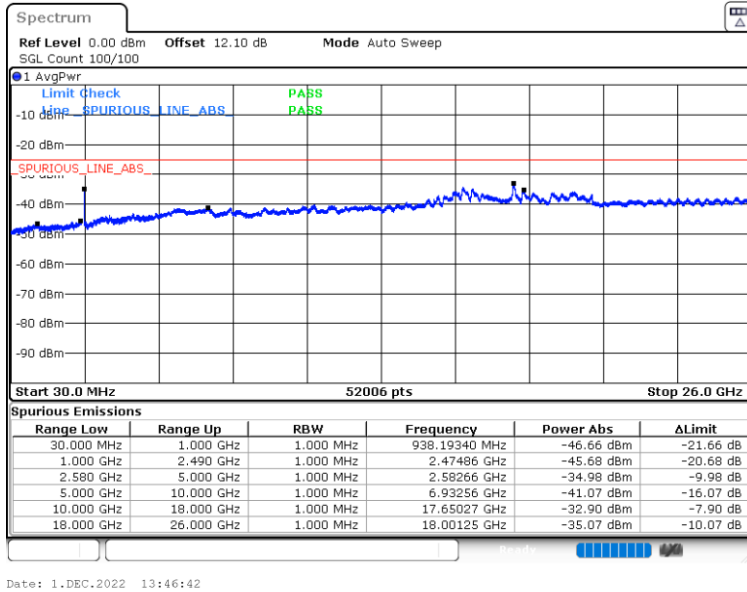
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

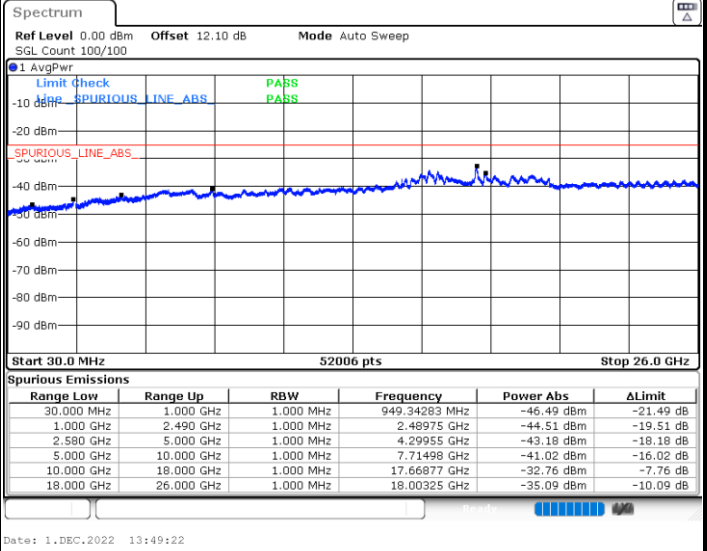
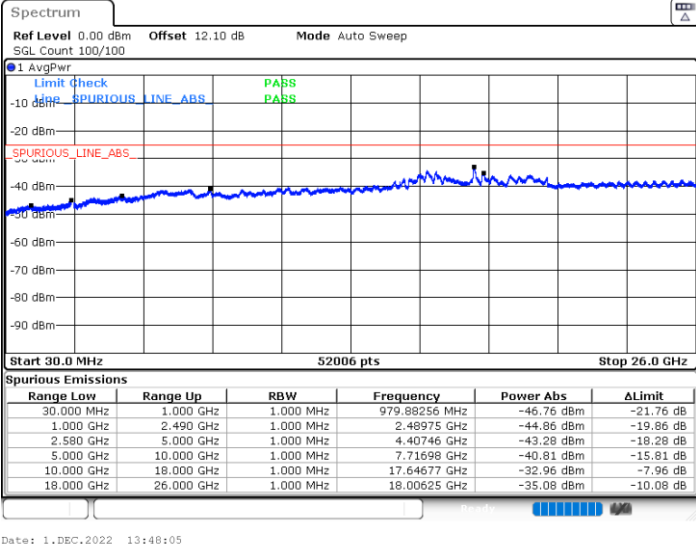




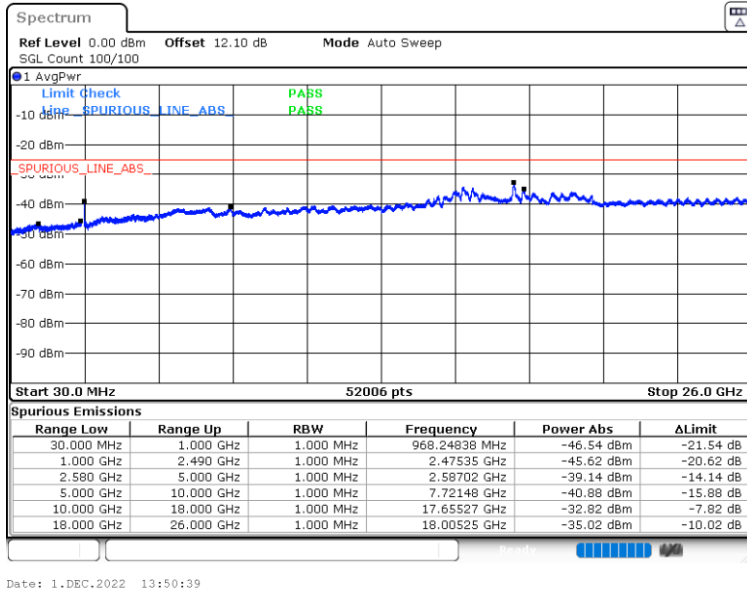
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





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	0.0070	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0053	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0056	
-30	Normal Voltage	0.0052	
20	Maximum Voltage	0.0056	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

- 1. Normal Voltage = 3.88 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 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
Middle CH	30.03	25.33	30.57	34.97
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.33	34.97	39.88	

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	30.03	25.38	30.63	34.97
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.15	35.04	39.96	

Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.91	25.67	30.69	34.90
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.63	34.97	39.88	

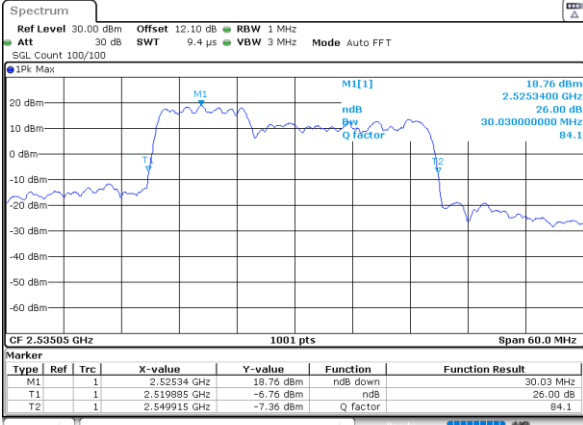
Mode	LTE Band 7C : 26dB BW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.79	25.33	30.63	35.18
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.90	39.96	



LTE Band 7C

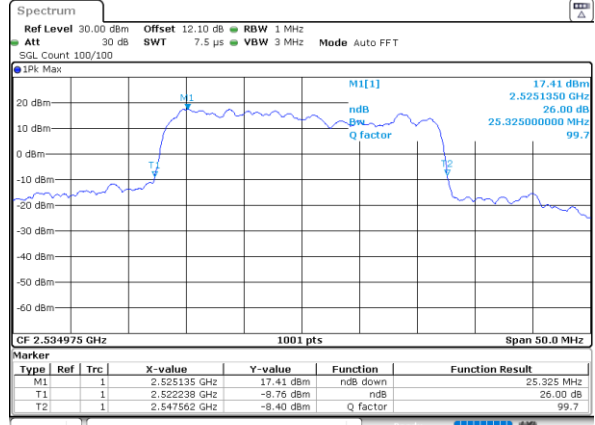
QPSK

Middle Channel / 10MHz+20MHz



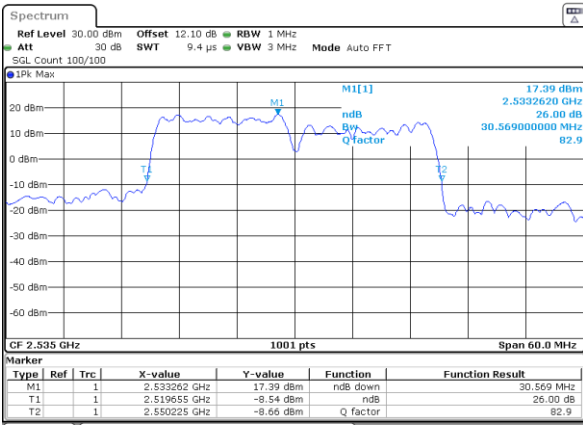
Date: 1.DEC.2022 02:51:55

Middle Channel / 15MHz+10MHz



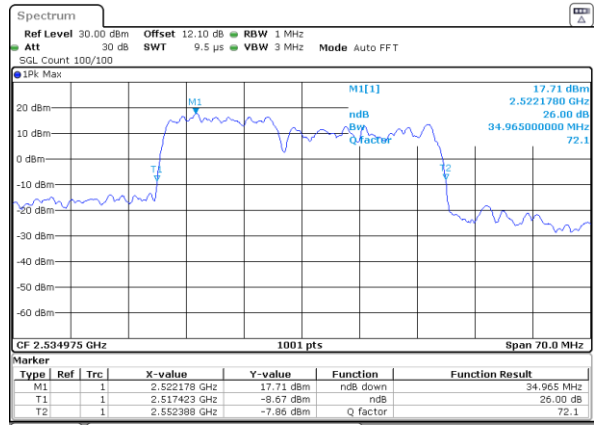
Date: 1.DEC.2022 09:41:55

Middle Channel / 15MHz+15MHz



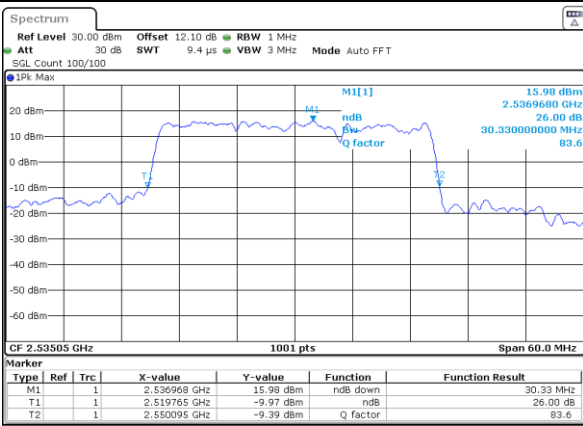
Date: 1.DEC.2022 04:34:39

Middle Channel / 15MHz+20MHz



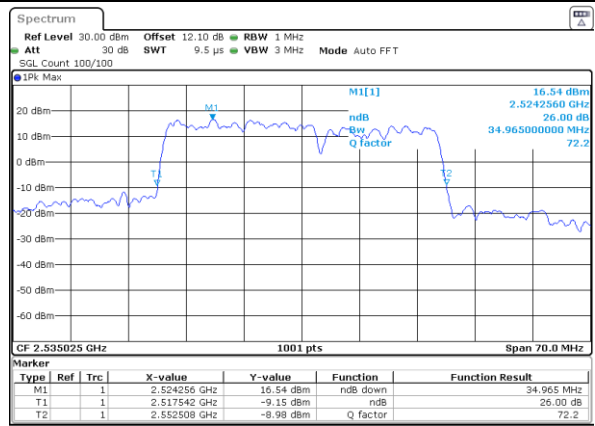
Date: 1.DEC.2022 05:30:33

Middle Channel / 20MHz+10MHz



Date: 1.DEC.2022 03:44:35

Middle Channel / 20MHz+15MHz



Date: 1.DEC.2022 06:23:19

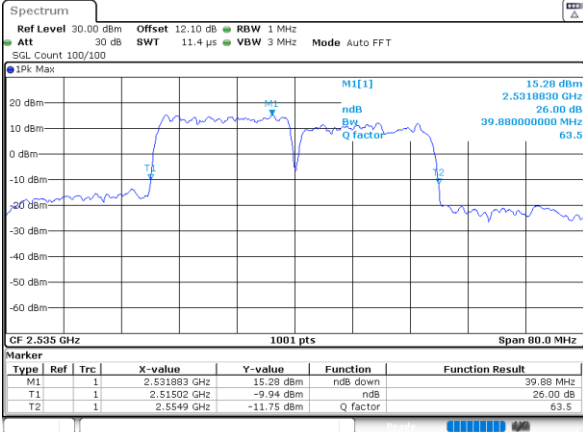


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



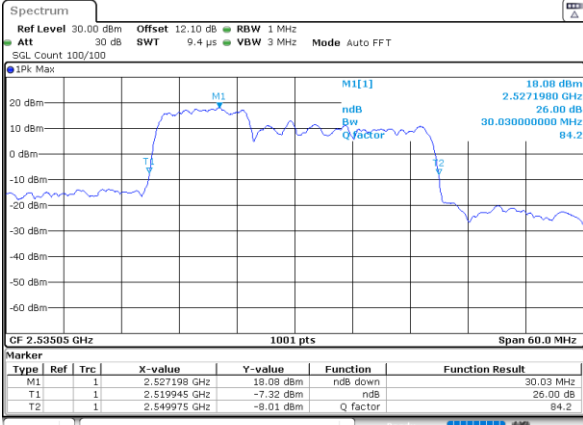
Date: 1.DEC.2022 08:42:47



LTE Band 7C

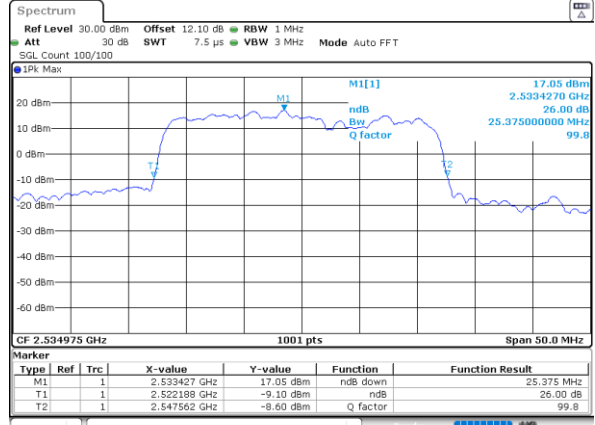
16QAM

Middle Channel / 10MHz+20MHz



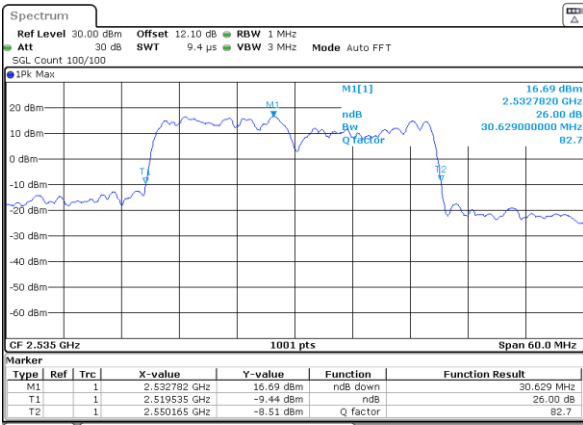
Date: 1.DEC.2022 02:51:17

Middle Channel / 15MHz+10MHz



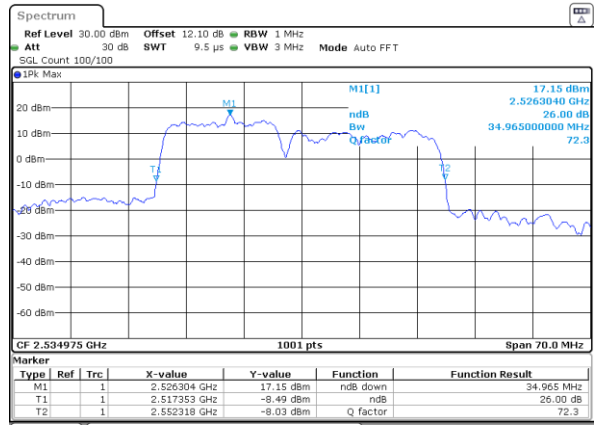
Date: 1.DEC.2022 09:41:17

Middle Channel / 15MHz+15MHz



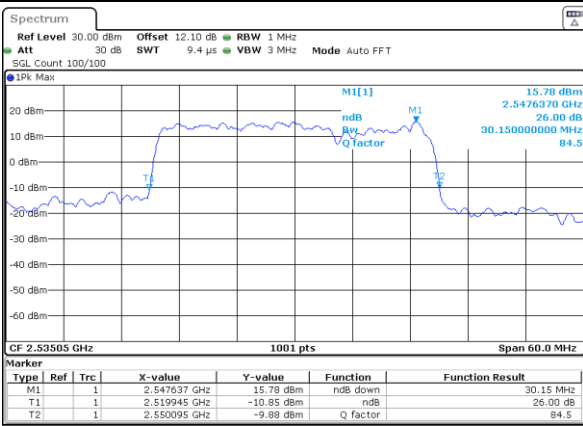
Date: 1.DEC.2022 04:34:07

Middle Channel / 15MHz+20MHz



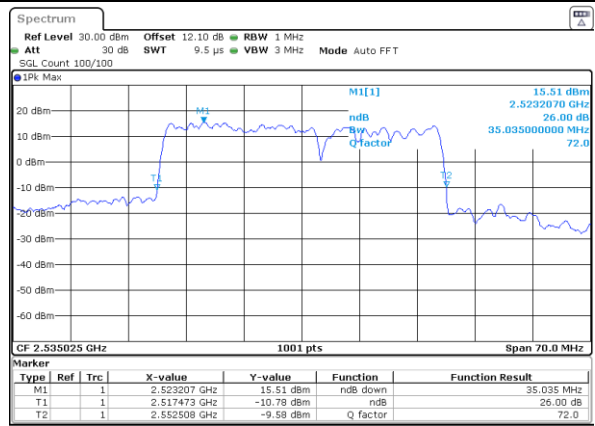
Date: 1.DEC.2022 05:29:55

Middle Channel / 20MHz+10MHz



Date: 1.DEC.2022 03:43:57

Middle Channel / 20MHz+15MHz



Date: 1.DEC.2022 06:22:41

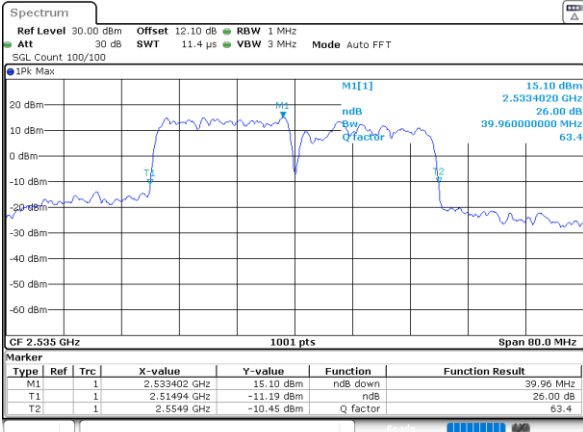


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A



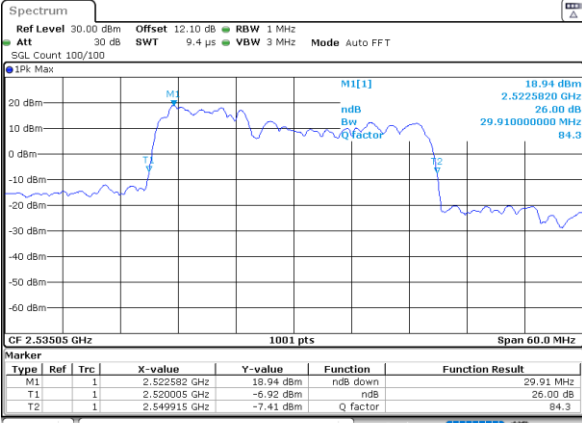
Date: 1.DEC.2022 08:41:37



LTE Band 7C

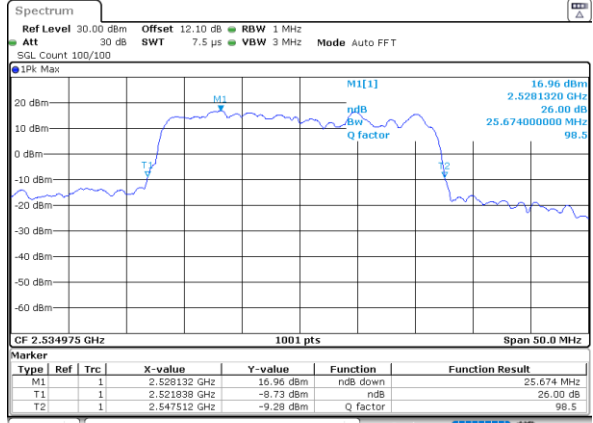
64QAM

Middle Channel / 10MHz+20MHz



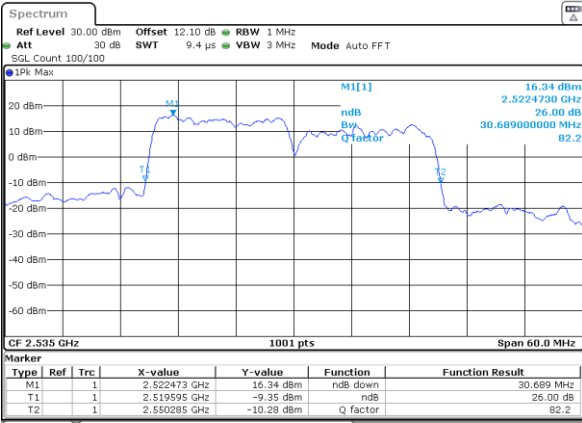
Date: 1.DEC.2022 02:50:39

Middle Channel / 15MHz+10MHz



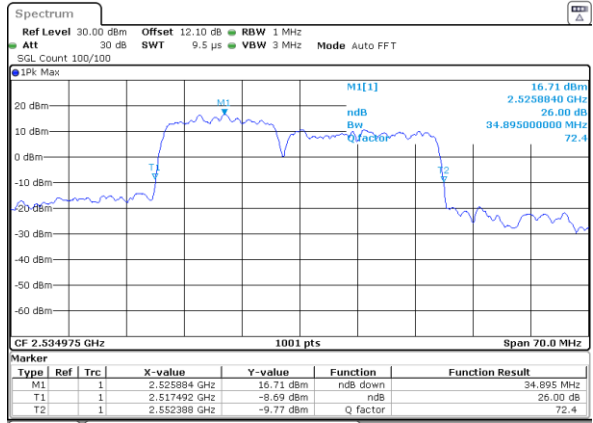
Date: 1.DEC.2022 09:38:47

Middle Channel / 15MHz+15MHz



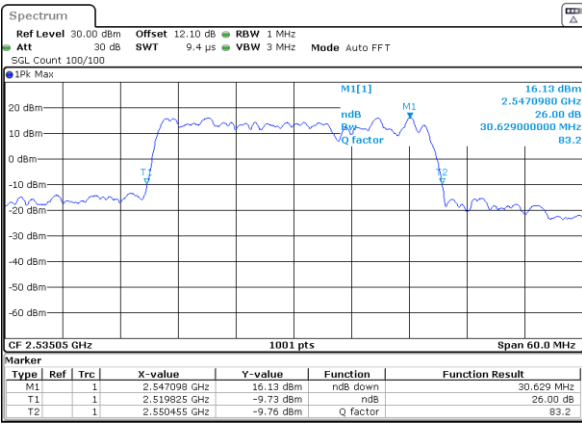
Date: 1.DEC.2022 04:33:34

Middle Channel / 15MHz+20MHz



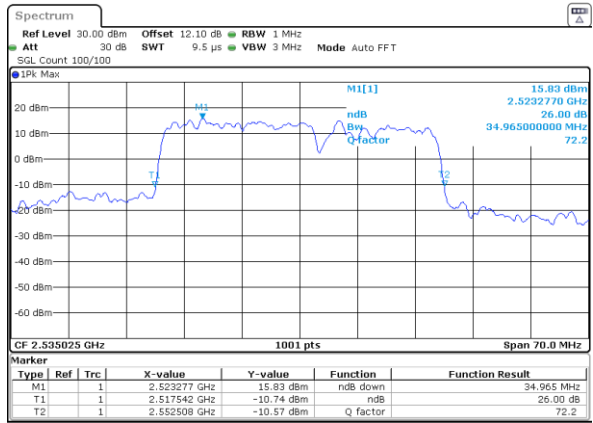
Date: 1.DEC.2022 05:28:45

Middle Channel / 20MHz+10MHz



Date: 1.DEC.2022 03:43:19

Middle Channel / 20MHz+15MHz



Date: 1.DEC.2022 06:22:03

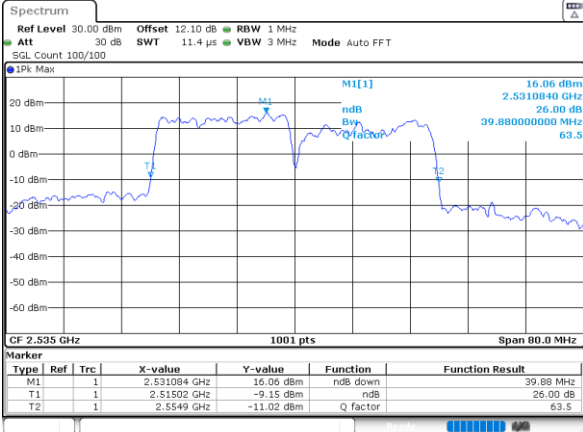


LTE Band 7C

64QAM

Middle Channel / 20MHz+20MHz

N/A



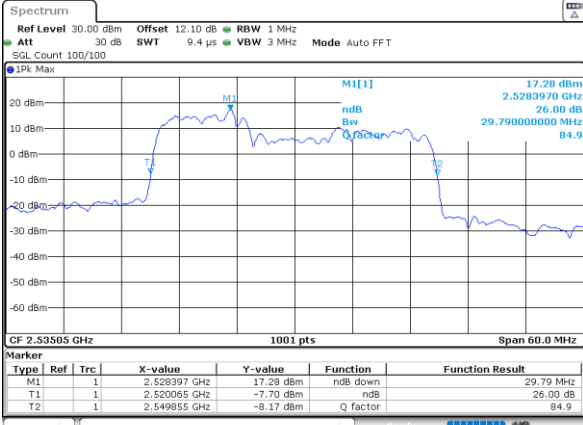
Date: 1.DEC.2022 07:10:24



LTE Band 7C

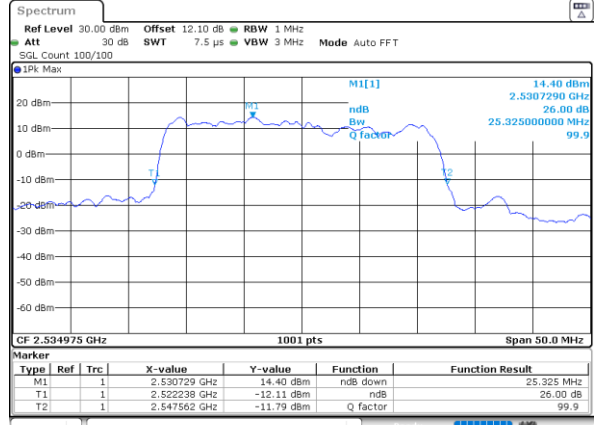
256QAM

Middle Channel / 10MHz+20MHz



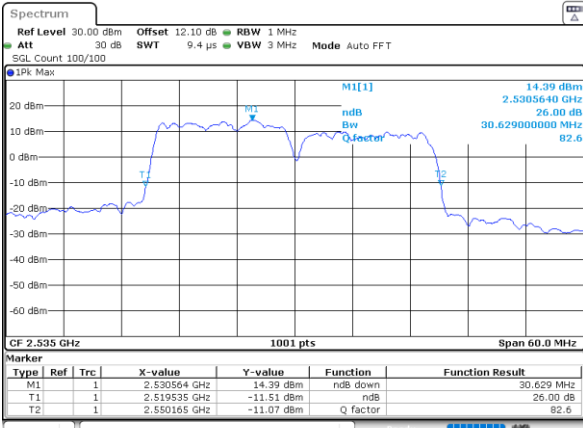
Date: 1.DEC.2022 09:59:03

Middle Channel / 15MHz+10MHz



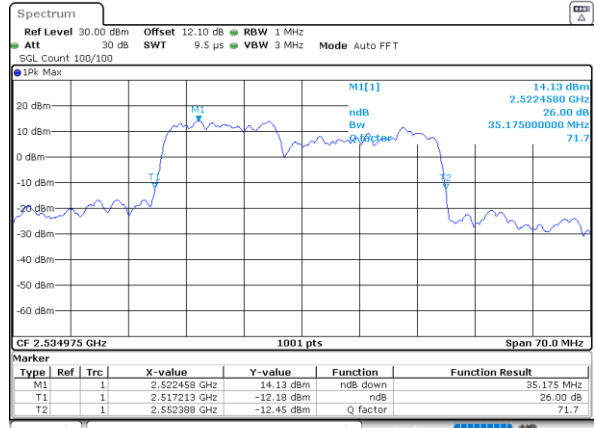
Date: 1.DEC.2022 11:19:11

Middle Channel / 15MHz+15MHz



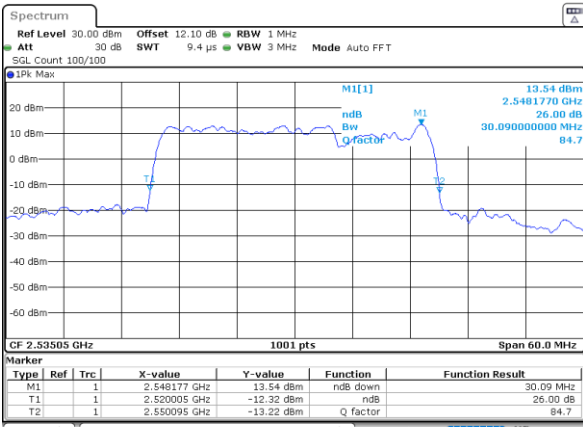
Date: 1.DEC.2022 10:25:31

Middle Channel / 15MHz+20MHz



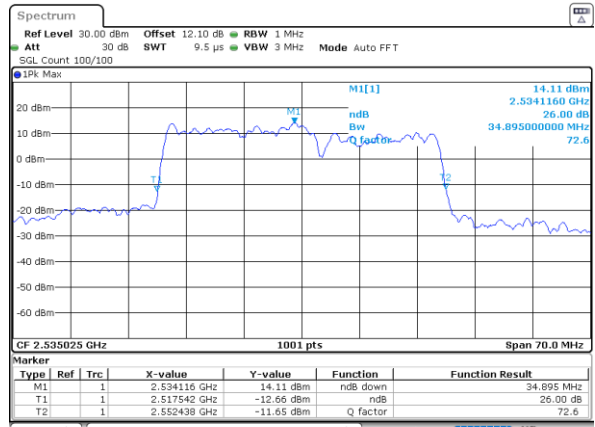
Date: 1.DEC.2022 10:39:40

Middle Channel / 20MHz+10MHz



Date: 1.DEC.2022 10:12:43

Middle Channel / 20MHz+15MHz



Date: 1.DEC.2022 10:53:19

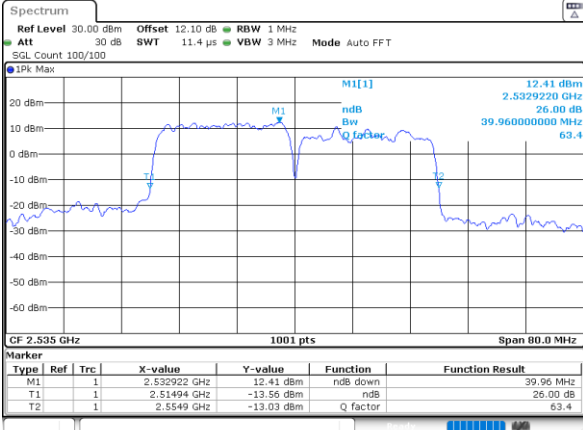


LTE Band 7C

256QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 1.DEC.2022 11:05:33



Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	27.99	23.58	28.71	32.87
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.17	32.94	37.88	

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.05	23.38	28.77	32.73
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.17	32.87	37.64	

Mode	LTE Band 7C : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.29	23.43	28.53	33.15
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.23	32.94	37.64	

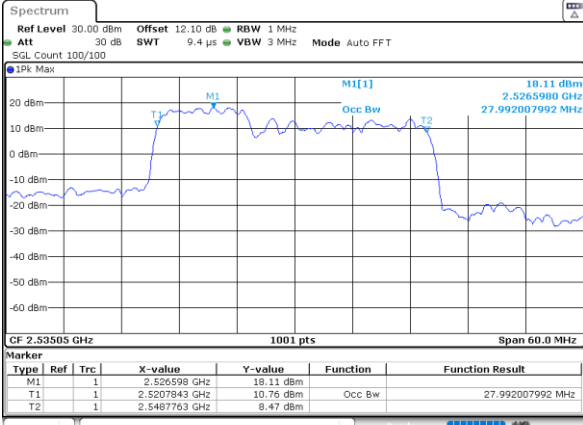
Mode	LTE Band 7C : 99%OBW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.05	23.38	28.59	32.80
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.05	32.80	37.96	



LTE Band 7C

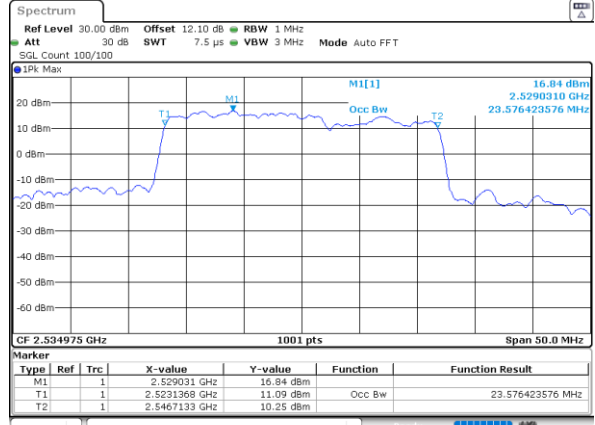
QPSK

Middle Channel / 10MHz+20MHz



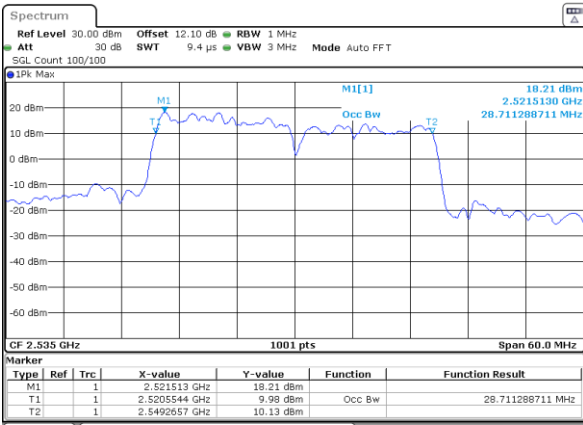
Date: 1.DEC.2022 02:44:54

Middle Channel / 15MHz+10MHz



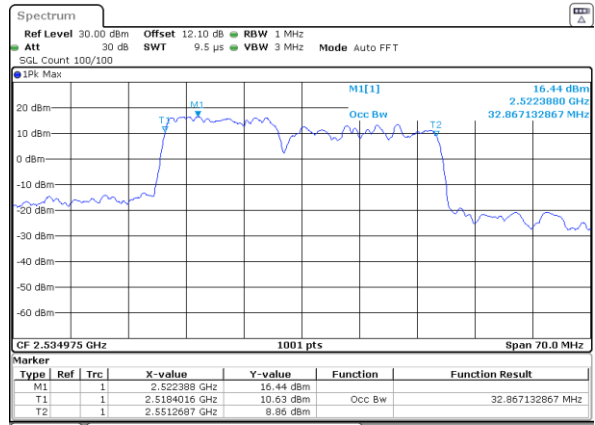
Date: 1.DEC.2022 09:31:26

Middle Channel / 15MHz+15MHz



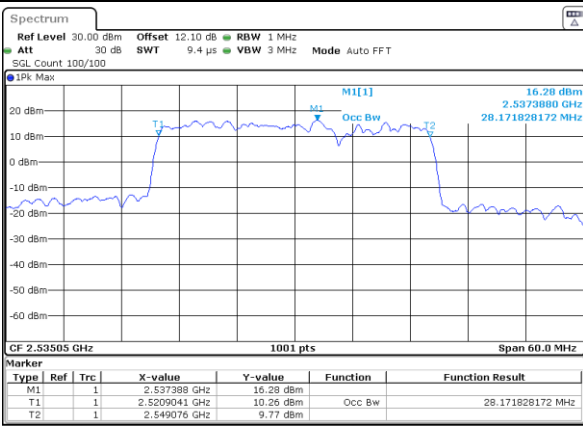
Date: 1.DEC.2022 04:28:36

Middle Channel / 15MHz+20MHz



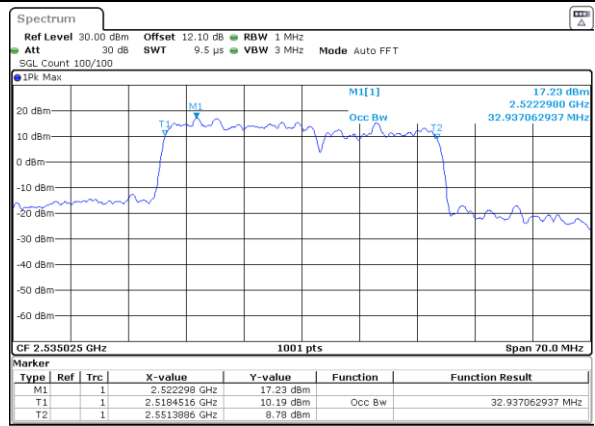
Date: 1.DEC.2022 05:23:01

Middle Channel / 20MHz+10MHz



Date: 1.DEC.2022 03:37:35

Middle Channel / 20MHz+15MHz



Date: 1.DEC.2022 06:16:18

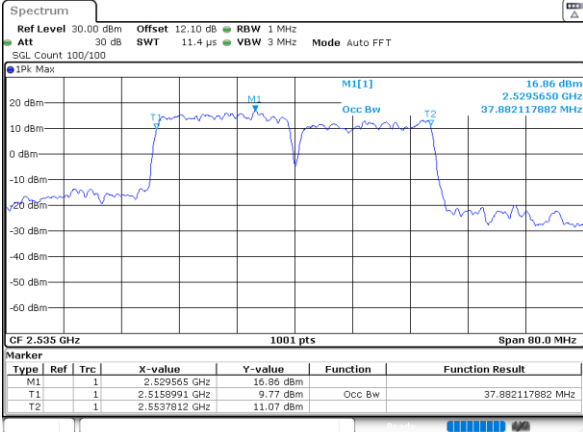


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



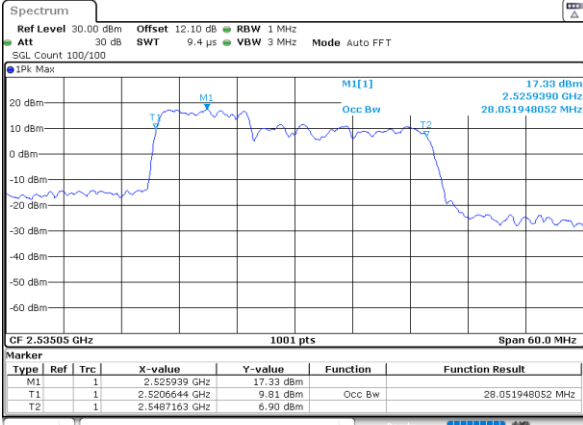
Date: 1.DEC.2022 07:05:26



LTE Band 7C

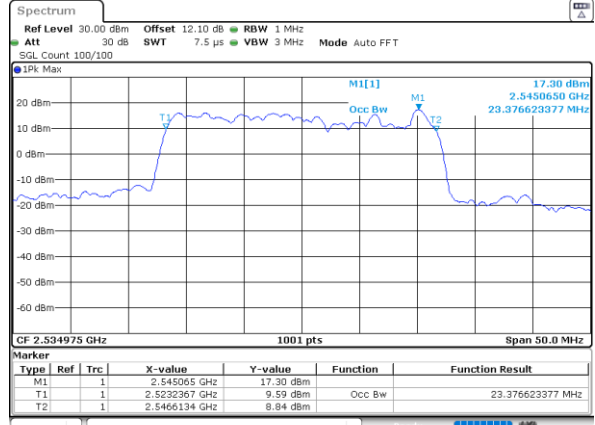
16QAM

Middle Channel / 10MHz+20MHz



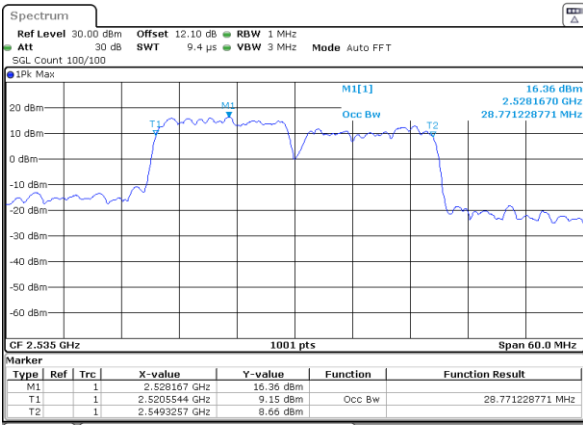
Date: 1.DEC.2022 02:48:06

Middle Channel / 15MHz+10MHz



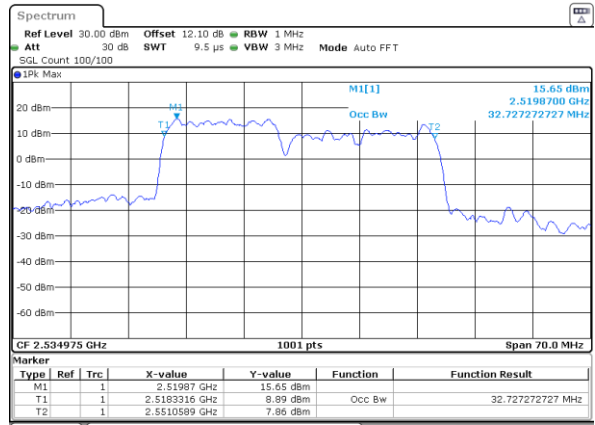
Date: 1.DEC.2022 09:35:09

Middle Channel / 15MHz+15MHz



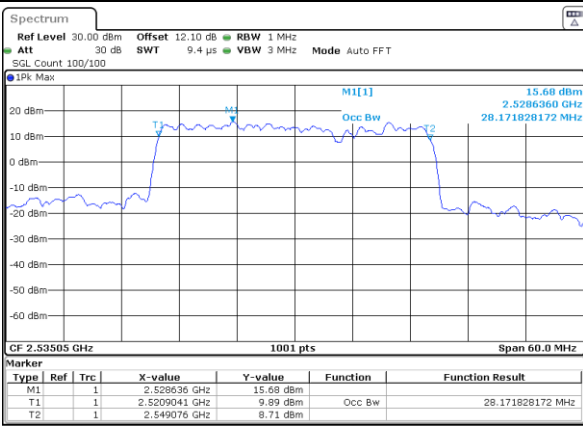
Date: 1.DEC.2022 04:31:21

Middle Channel / 15MHz+20MHz



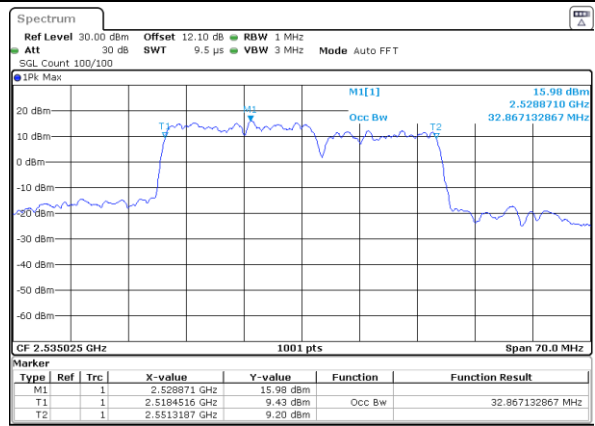
Date: 1.DEC.2022 05:26:12

Middle Channel / 20MHz+10MHz



Date: 1.DEC.2022 03:40:46

Middle Channel / 20MHz+15MHz



Date: 1.DEC.2022 06:19:29

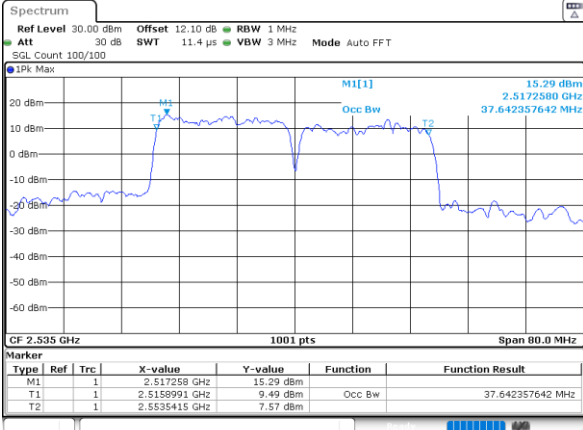


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 1.DEC.2022 07:08:11