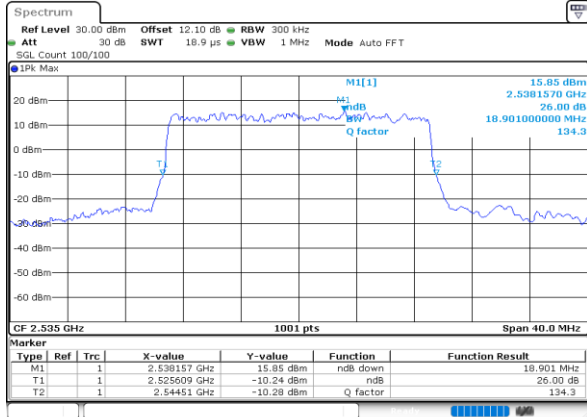




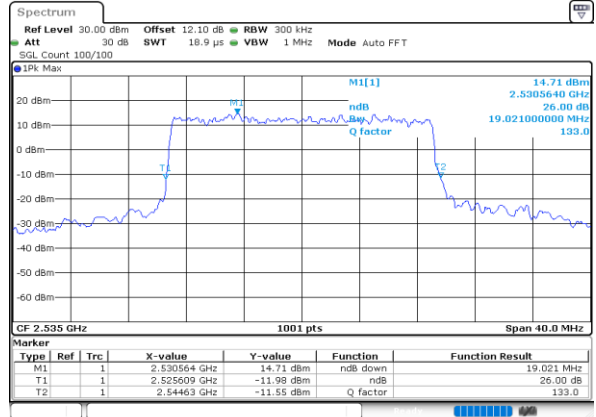
LTE Band 7

Middle Channel / 20MHz / QPSK



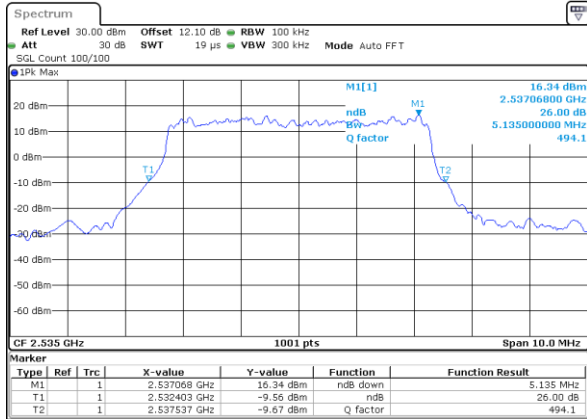
Date: 13.FEB.2023 10:23:09

Middle Channel / 20MHz / 16QAM



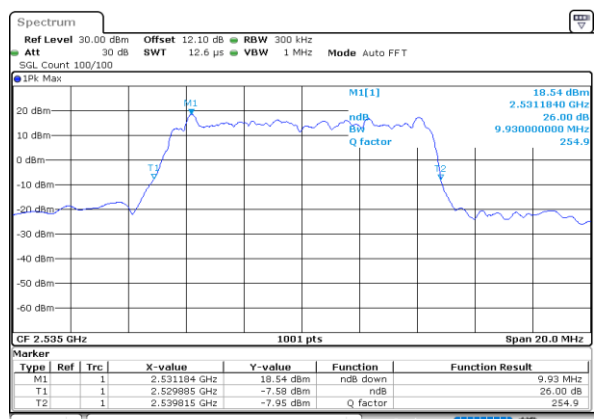
Date: 13.FEB.2023 10:23:17

Middle Channel / 5MHz / 64QAM



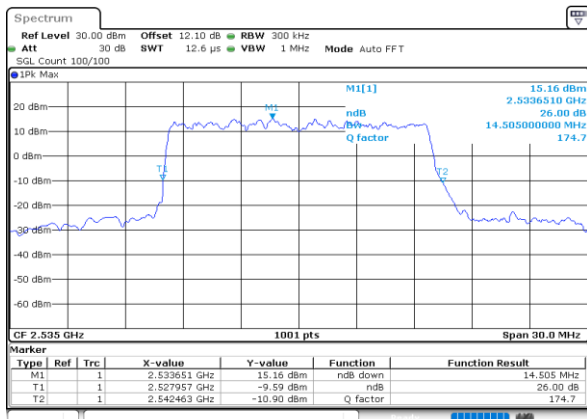
Date: 13.FEB.2023 09:58:08

Middle Channel / 10MHz / 64QAM



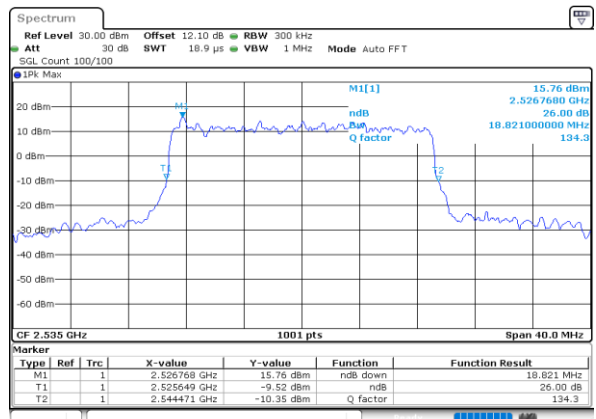
Date: 13.FEB.2023 10:08:13

Middle Channel / 15MHz / 64QAM



Date: 13.FEB.2023 10:18:40

Middle Channel / 20MHz / 64QAM

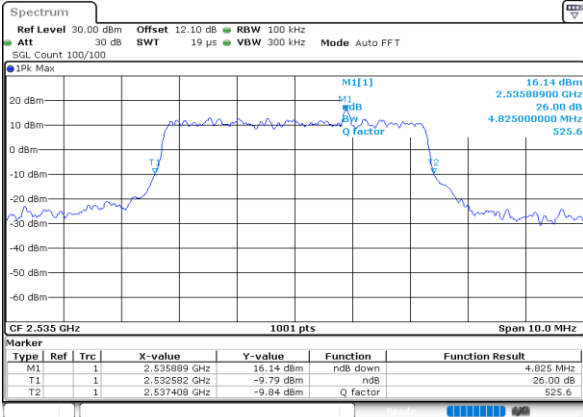


Date: 13.FEB.2023 10:27:18



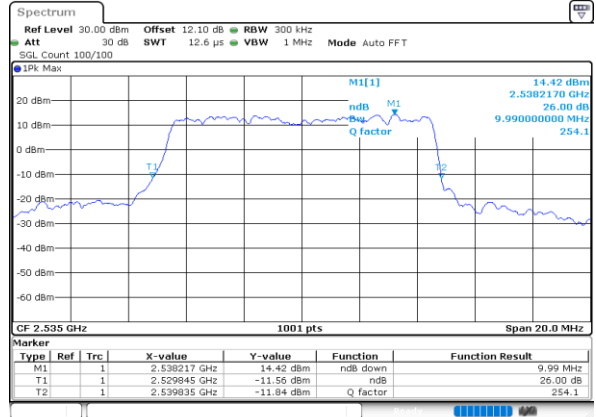
LTE Band 7

Middle Channel / 5MHz / 256QAM



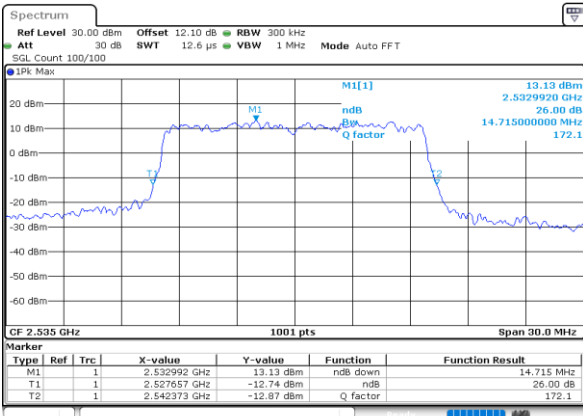
Date: 13.FEB.2023 10:32:34

Middle Channel / 10MHz / 256QAM



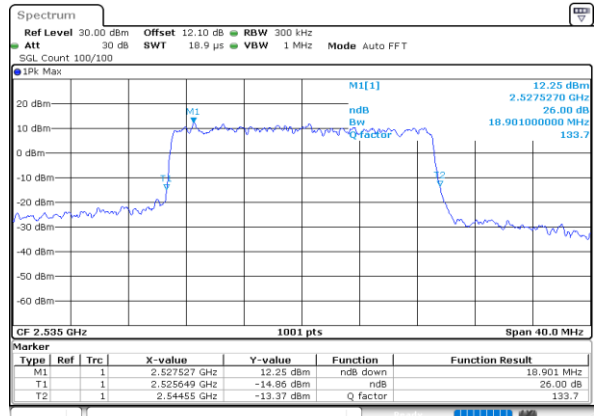
Date: 13.FEB.2023 10:36:19

Middle Channel / 15MHz / 256QAM



Date: 13.FEB.2023 10:39:06

Middle Channel / 20MHz / 256QAM



Date: 13.FEB.2023 10:41:52



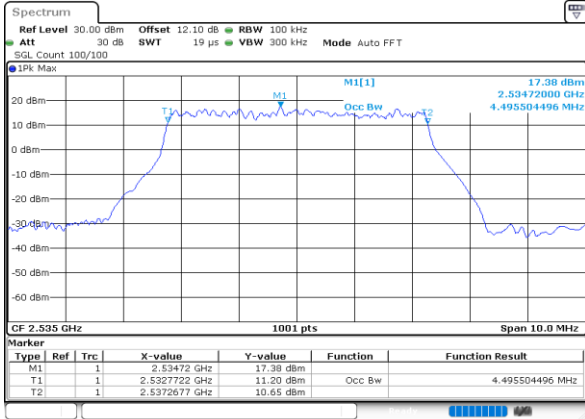
Occupied Bandwidth

LTE Band 7 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.53	9.03	9.05	13.49	13.46	17.98	17.86
LTE Band 7 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.51	4.55	9.01	9.15	13.49	13.49	17.94	17.90



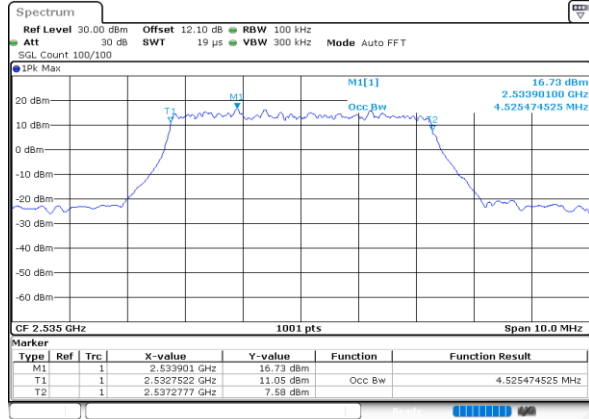
LTE Band 7

Middle Channel / 5MHz / QPSK



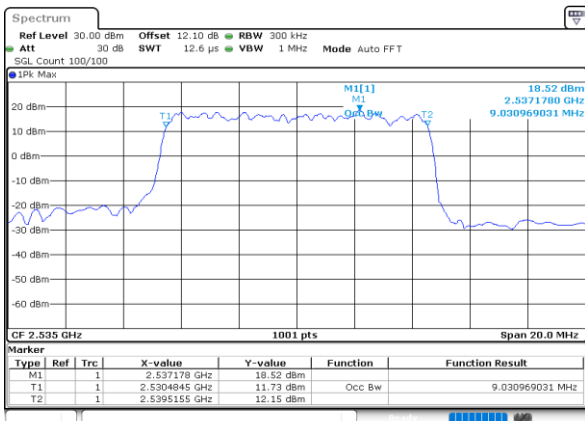
Date: 13.FEB.2023 09:48:00

Middle Channel / 5MHz / 16QAM



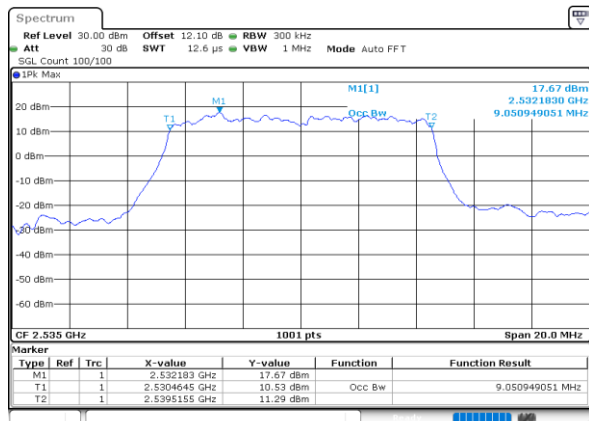
Date: 13.FEB.2023 09:48:29

Middle Channel / 10MHz / QPSK



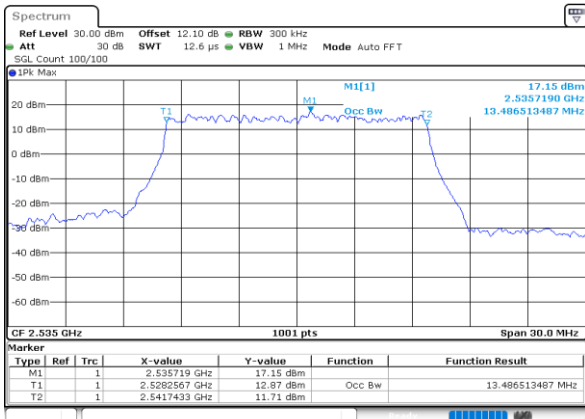
Date: 13.FEB.2023 10:03:06

Middle Channel / 10MHz / 16QAM



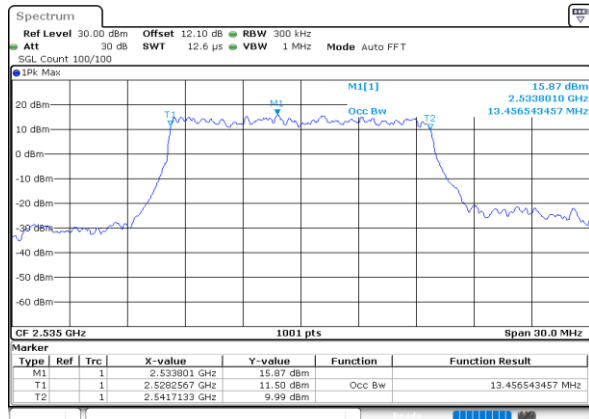
Date: 13.FEB.2023 10:03:36

Middle Channel / 15MHz / QPSK



Date: 13.FEB.2023 10:13:34

Middle Channel / 15MHz / 16QAM

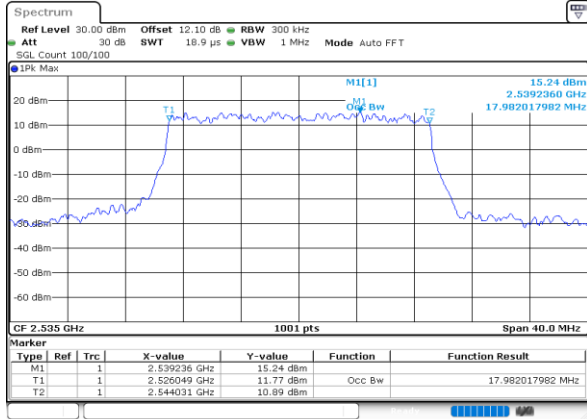


Date: 13.FEB.2023 10:14:03



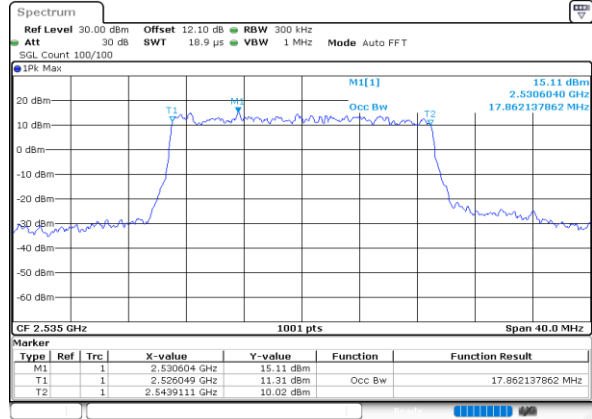
LTE Band 7

Middle Channel / 20MHz / QPSK



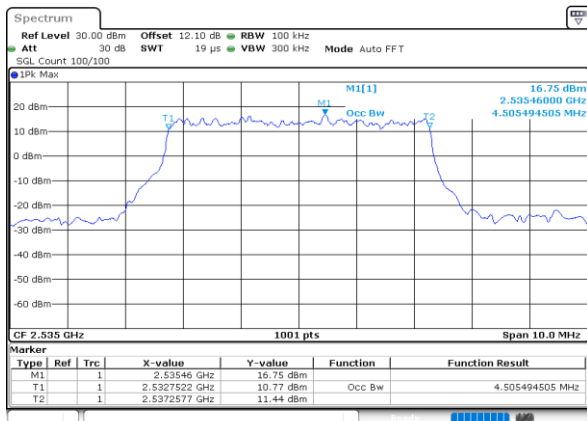
Date: 13.FEB.2023 10:22:11

Middle Channel / 20MHz / 16QAM



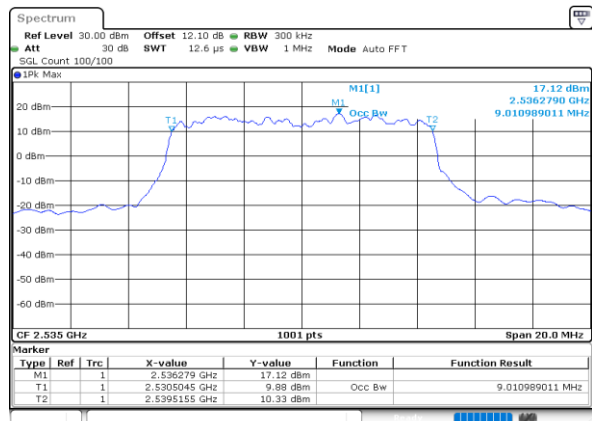
Date: 13.FEB.2023 10:22:40

Middle Channel / 5MHz / 64QAM



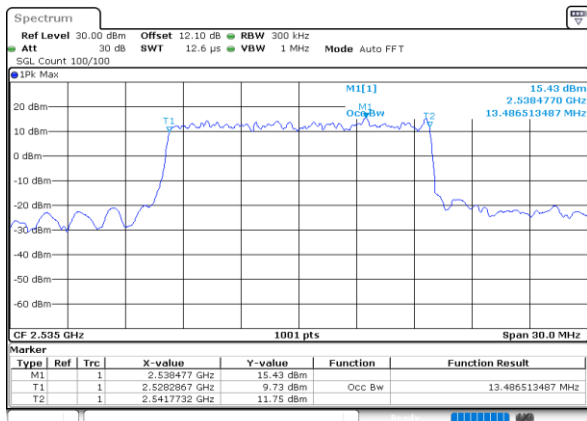
Date: 13.FEB.2023 09:58:24

Middle Channel / 10MHz / 64QAM



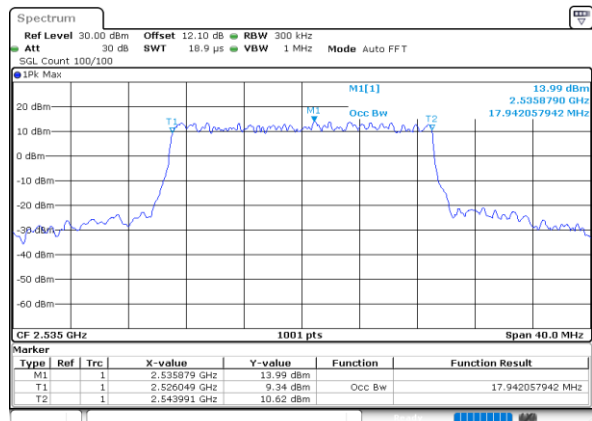
Date: 13.FEB.2023 10:07:59

Middle Channel / 15MHz / 64QAM



Date: 13.FEB.2023 10:18:26

Middle Channel / 20MHz / 64QAM

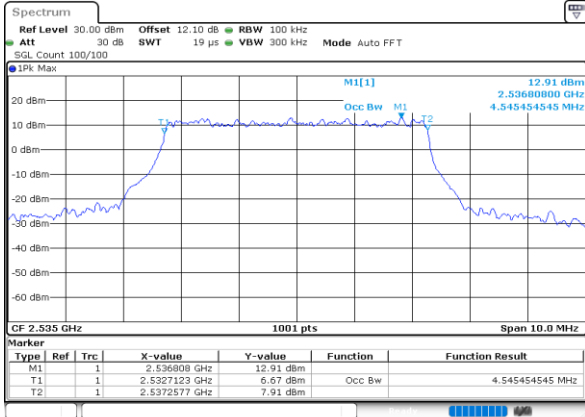


Date: 13.FEB.2023 10:27:04



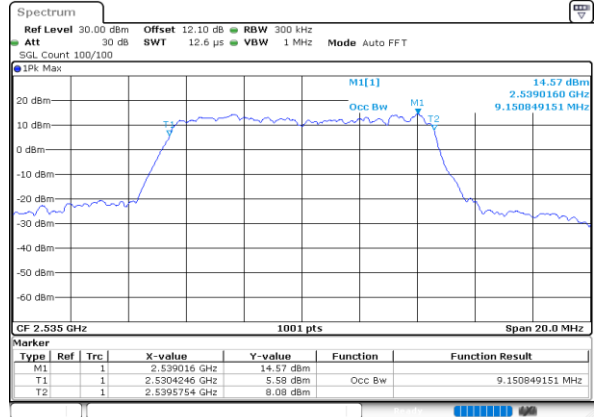
LTE Band 7

Middle Channel / 5MHz / 256QAM



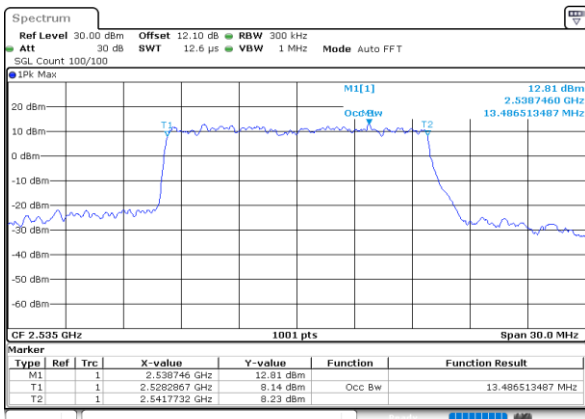
Date: 13.FEB.2023 10:32:20

Middle Channel / 10MHz / 256QAM



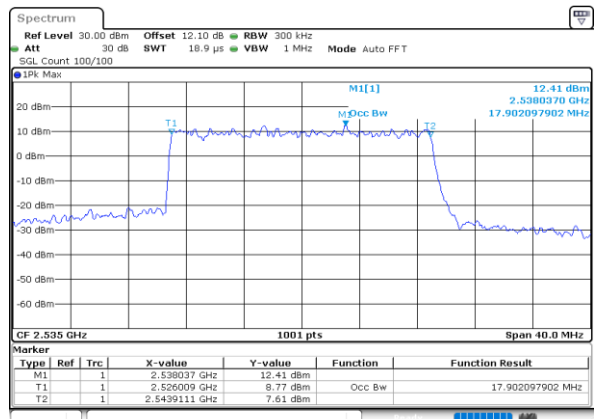
Date: 13.FEB.2023 10:36:05

Middle Channel / 15MHz / 256QAM



Date: 13.FEB.2023 10:38:52

Middle Channel / 20MHz / 256QAM



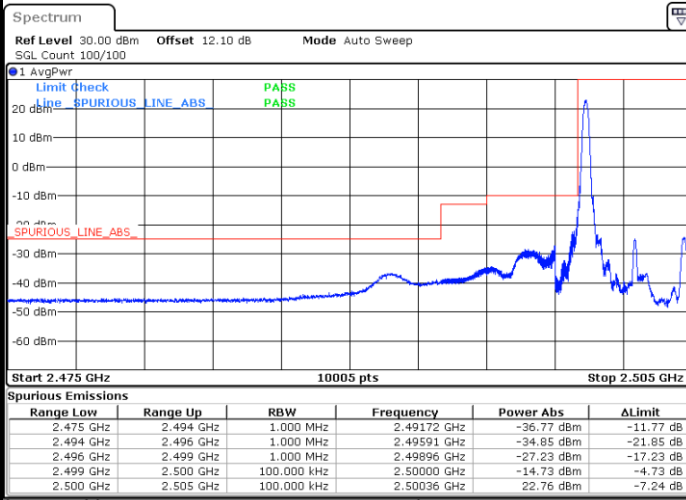
Date: 13.FEB.2023 10:41:38



# Conducted Band Edge

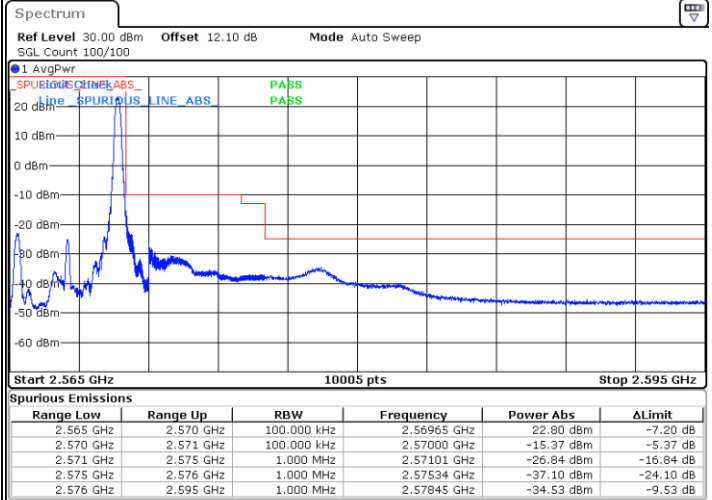
## LTE Band 7 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



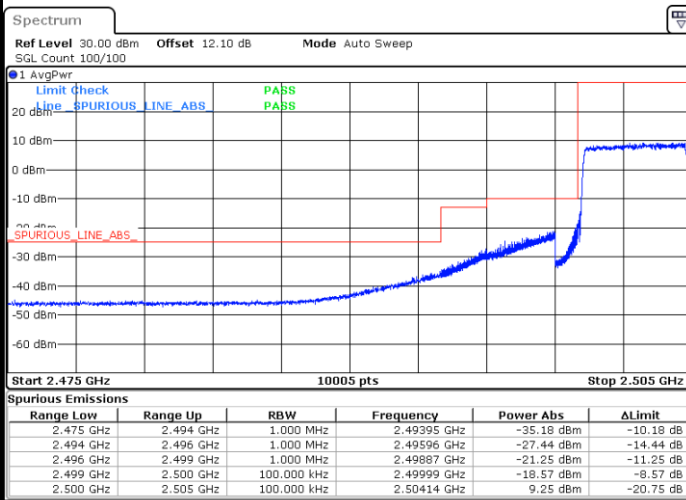
Date: 13.FEB.2023 09:43:15

### Highest Band Edge / 1 RB



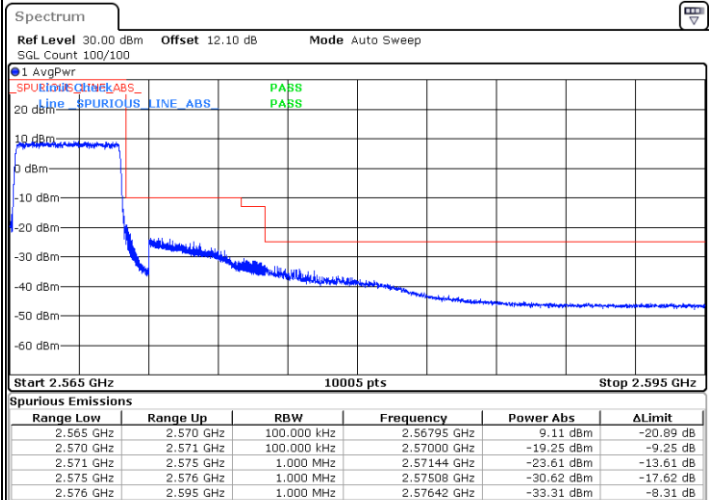
Date: 13.FEB.2023 09:51:42

### Lowest Band Edge / Full RB



Date: 13.FEB.2023 09:45:14

### Highest Band Edge / Full RB

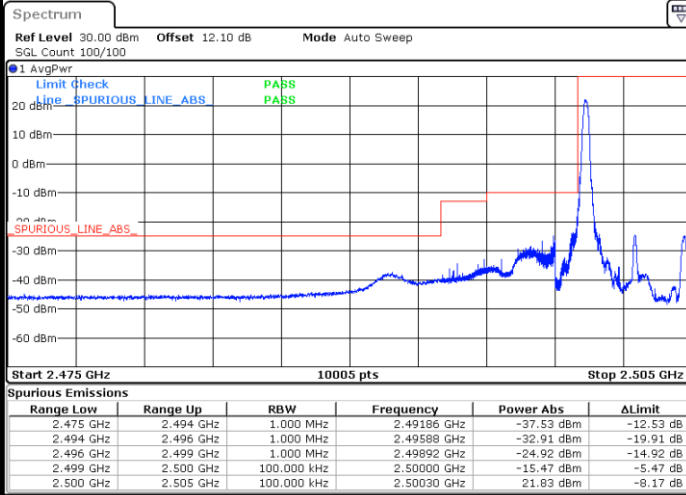


Date: 13.FEB.2023 09:53:39



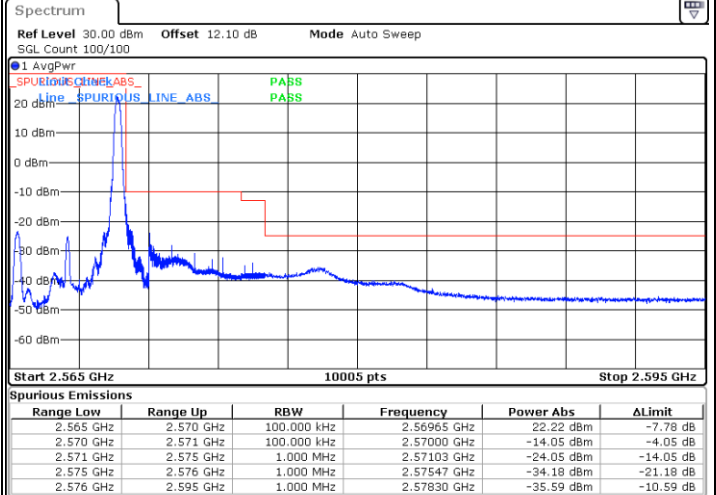
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



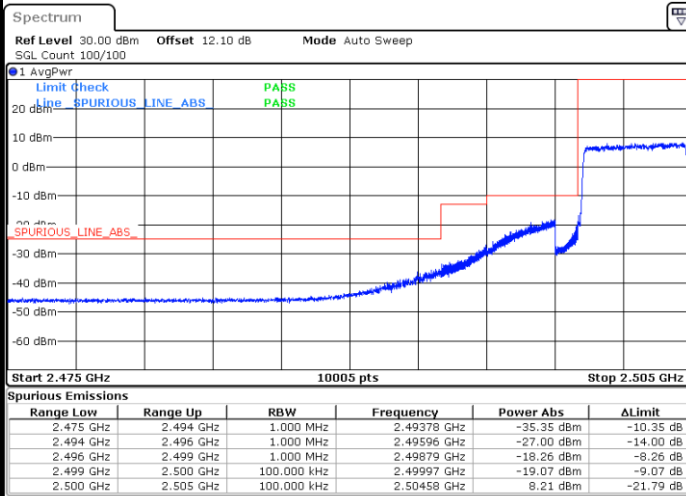
Date: 13.FEB.2023 09:44:14

Highest Band Edge / 1 RB



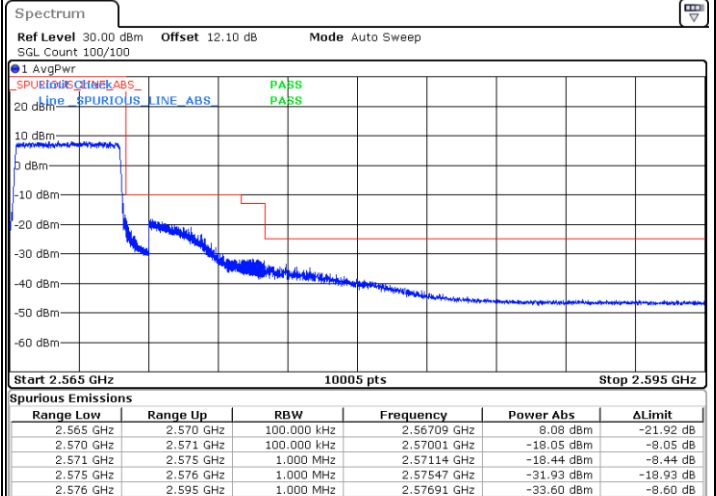
Date: 13.FEB.2023 09:52:40

Lowest Band Edge / Full RB



Date: 13.FEB.2023 09:46:13

Highest Band Edge / Full RB



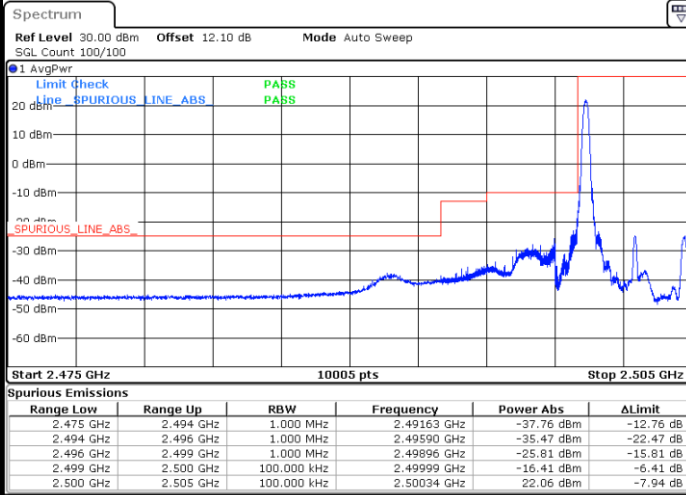
Date: 13.FEB.2023 09:54:37





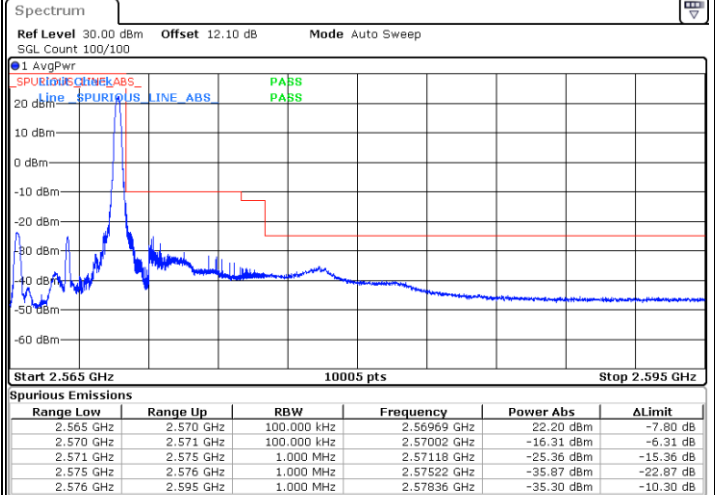
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



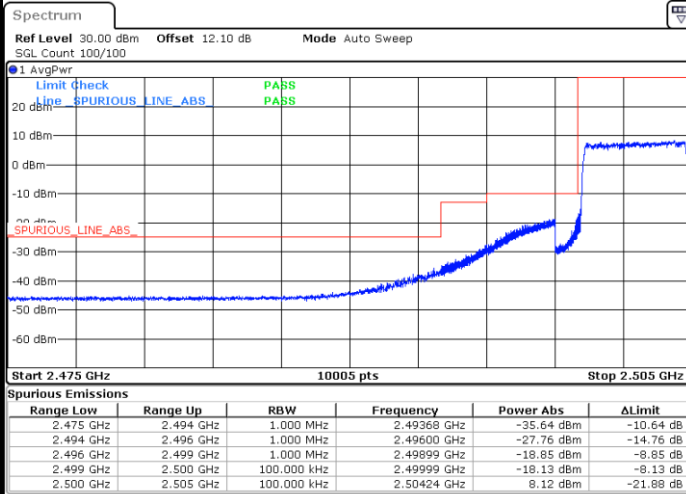
Date: 13.FEB.2023 09:56:55

Highest Band Edge / 1 RB



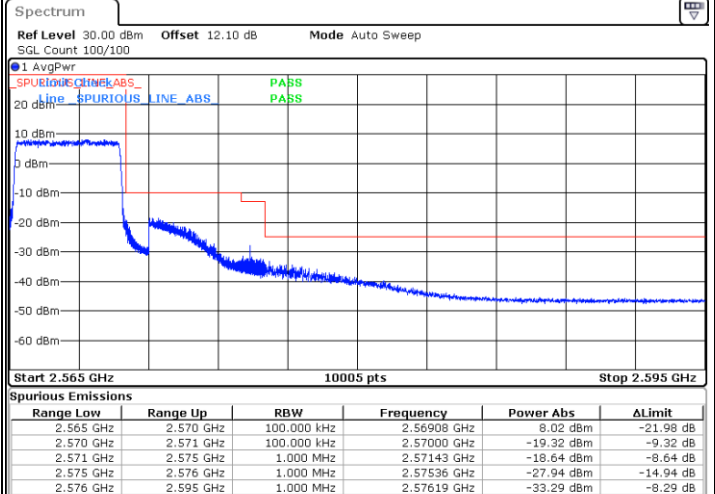
Date: 13.FEB.2023 09:59:36

Lowest Band Edge / Full RB



Date: 13.FEB.2023 09:57:54

Highest Band Edge / Full RB

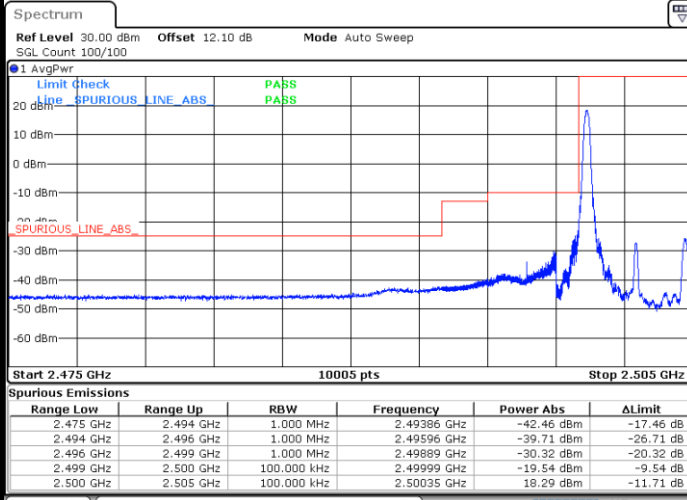


Date: 13.FEB.2023 10:00:35



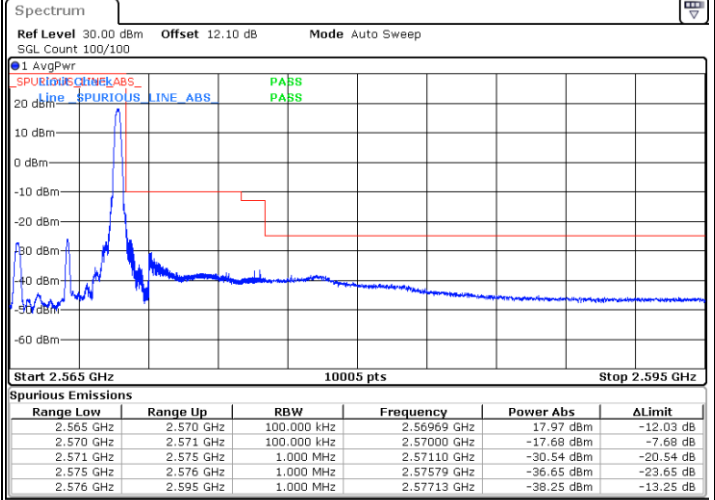
LTE Band 7 / 5MHz / 256QAM

Lowest Band Edge / 1RB



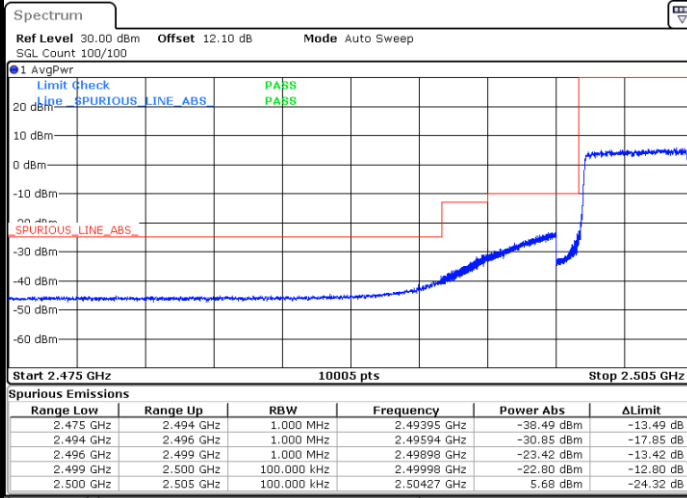
Date: 13.FEB.2023 10:30:51

Highest Band Edge / 1 RB



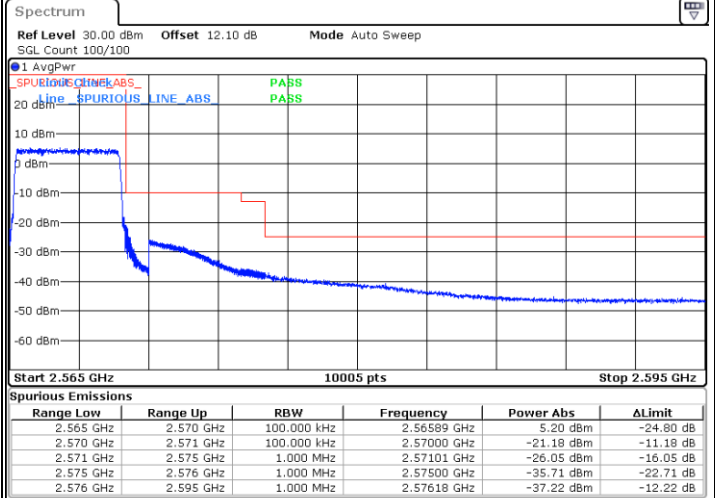
Date: 13.FEB.2023 10:33:33

Lowest Band Edge / Full RB



Date: 13.FEB.2023 10:31:51

Highest Band Edge / Full RB



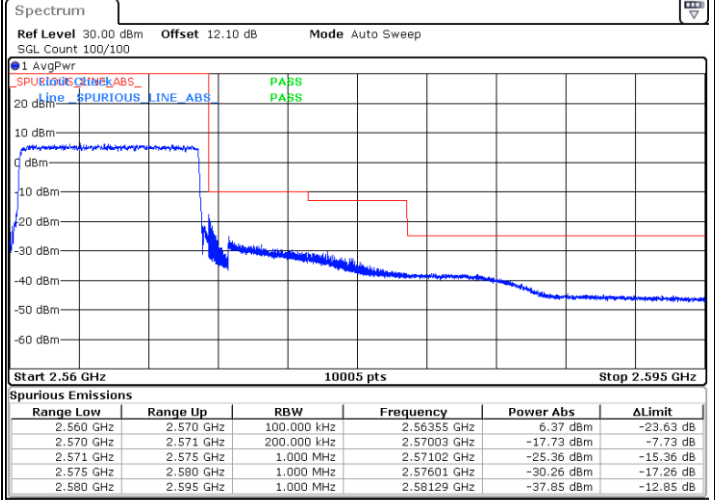
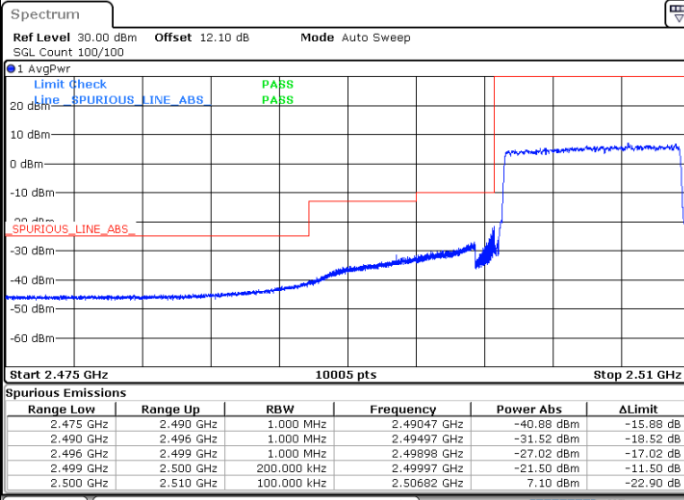
Date: 13.FEB.2023 10:34:32



LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



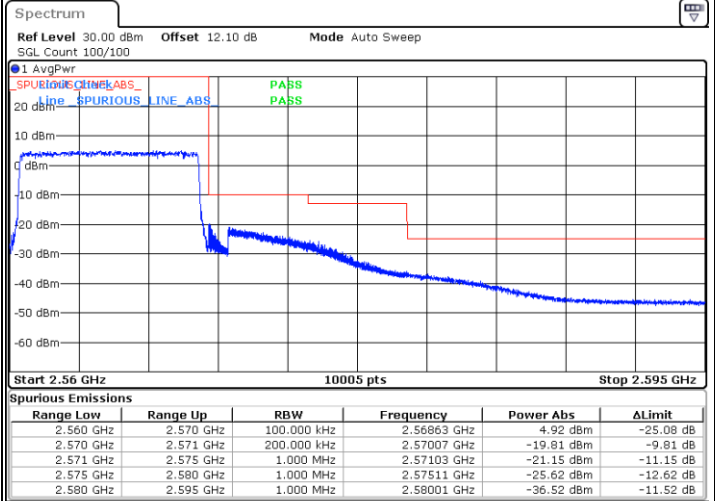
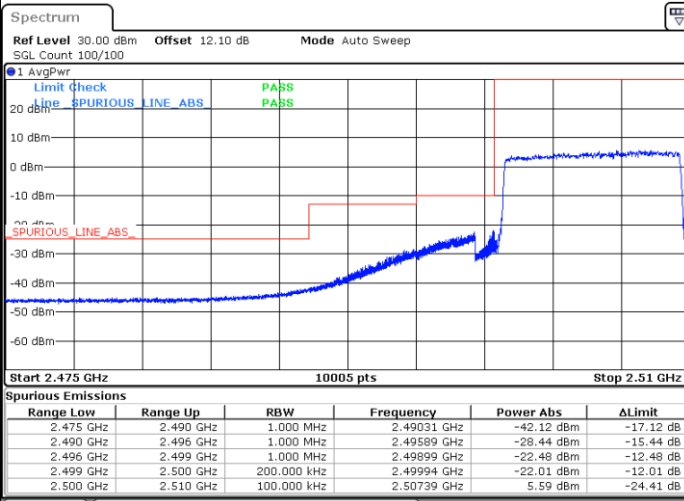
Date: 13.FEB.2023 10:01:39

Date: 13.FEB.2023 10:05:33

LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.FEB.2023 10:02:37

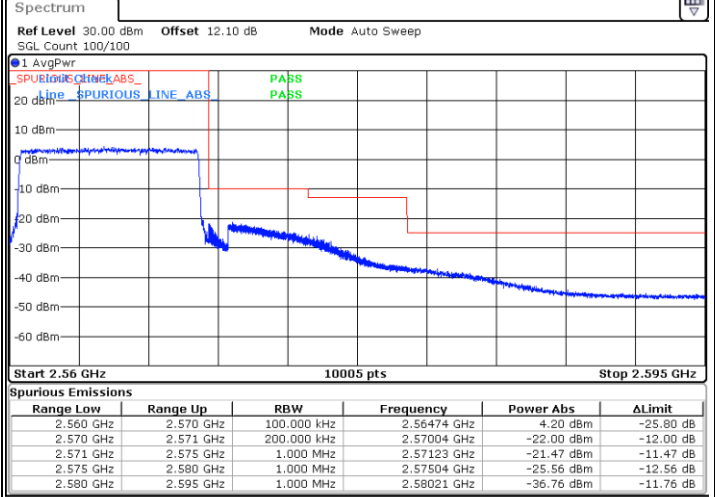
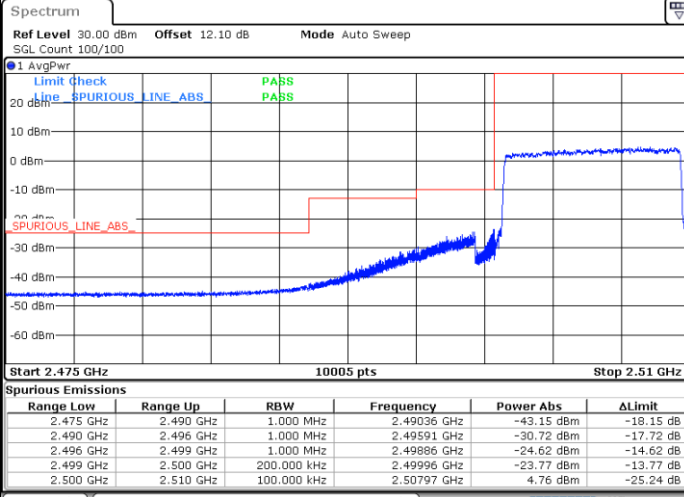
Date: 13.FEB.2023 10:06:31



LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



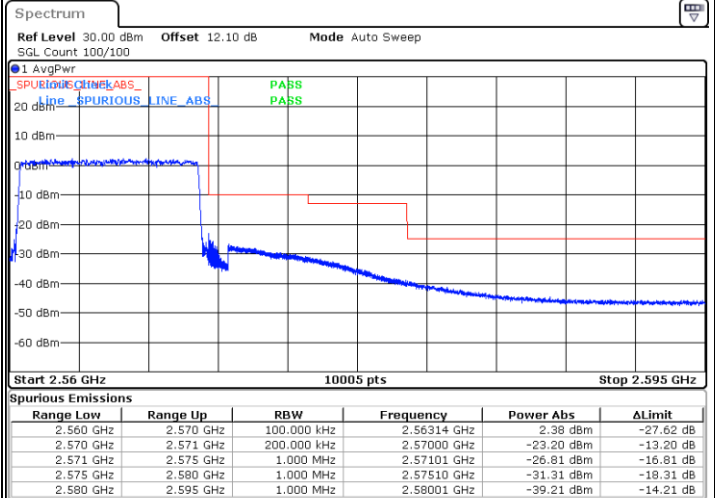
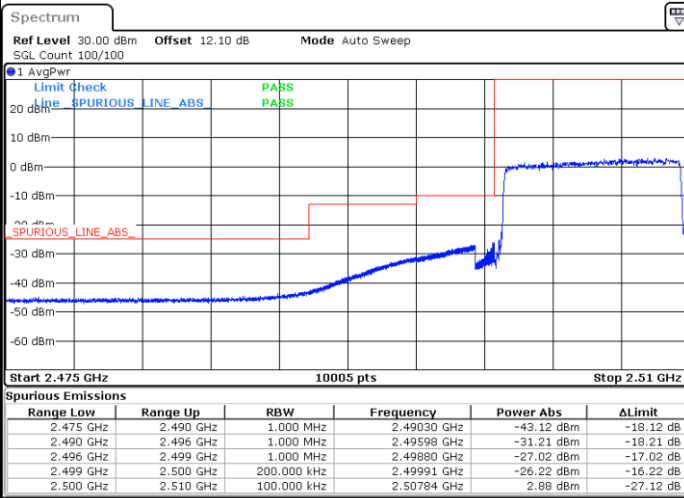
Date: 13.FEB.2023 10:07:30

Date: 13.FEB.2023 10:09:11

LTE Band 7 / 10MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



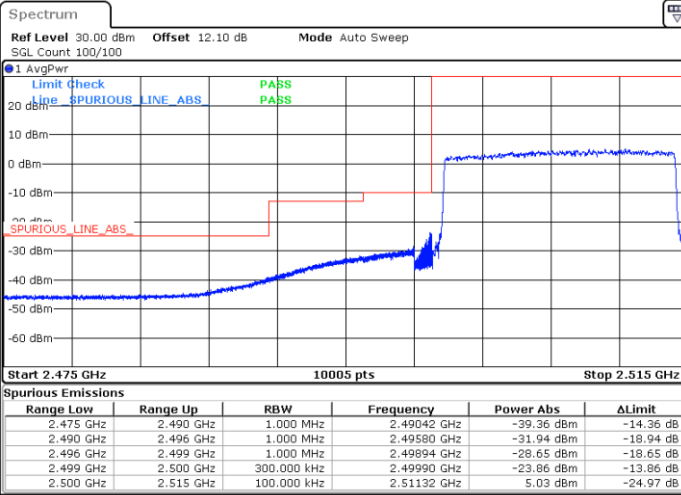
Date: 13.FEB.2023 10:35:36

Date: 13.FEB.2023 10:37:17



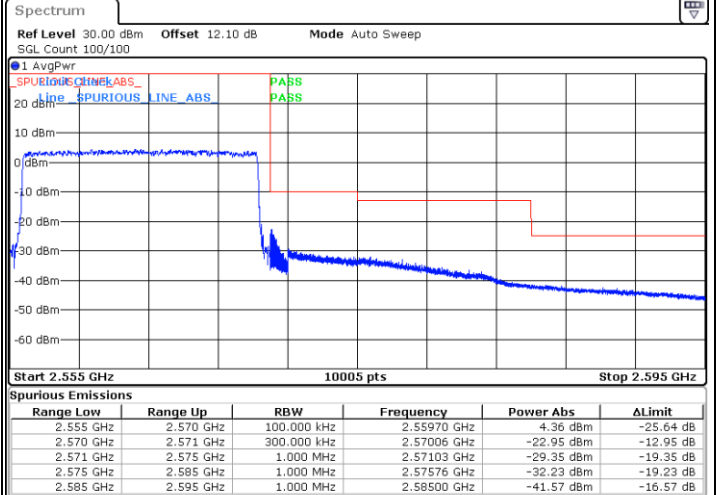
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 13.FEB.2023 10:12:06

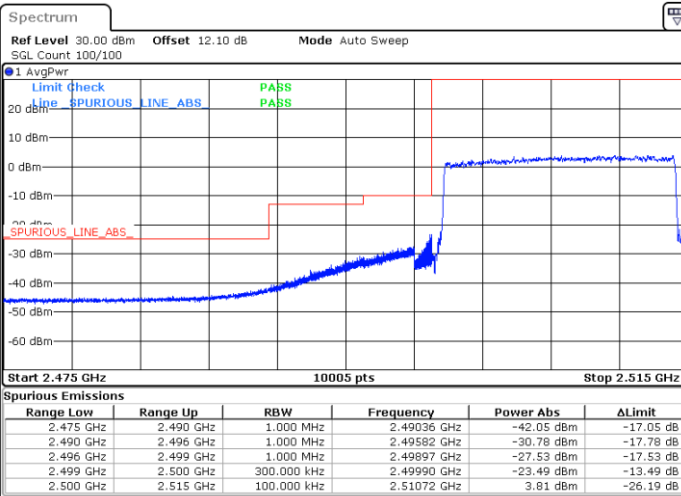
Highest Band Edge / Full RB



Date: 13.FEB.2023 10:15:58

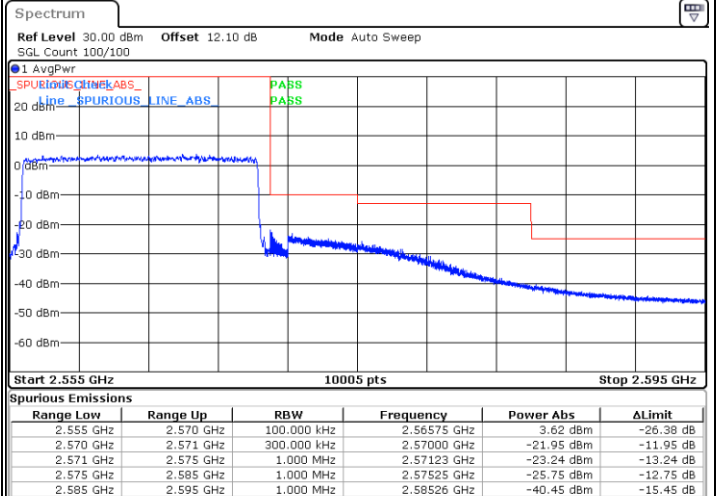
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 13.FEB.2023 10:13:05

Highest Band Edge / Full RB



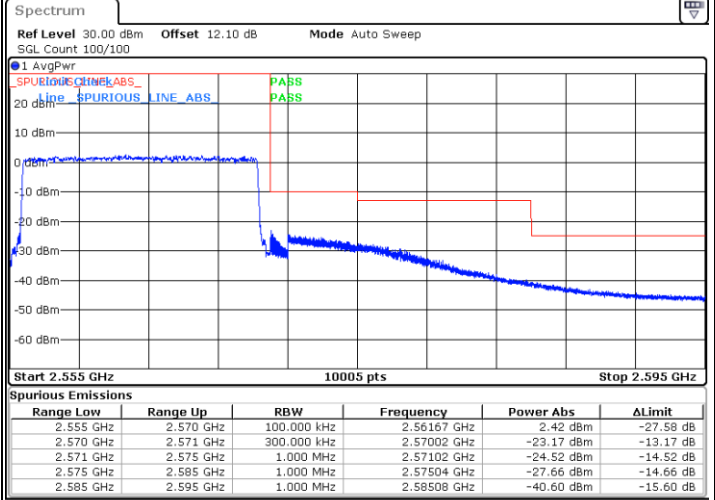
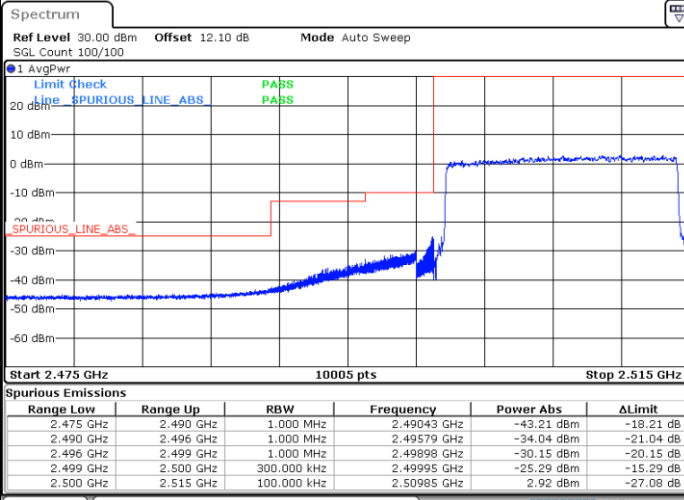
Date: 13.FEB.2023 10:16:57



LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



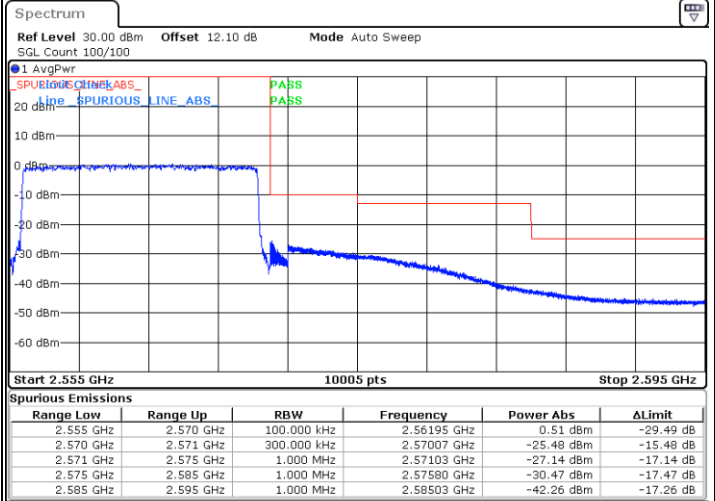
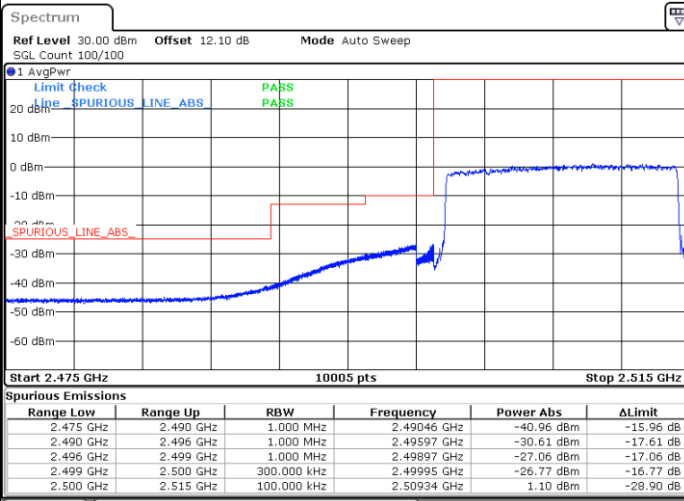
Date: 13.FEB.2023 10:17:56

Date: 13.FEB.2023 10:19:39

LTE Band 7 / 15MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



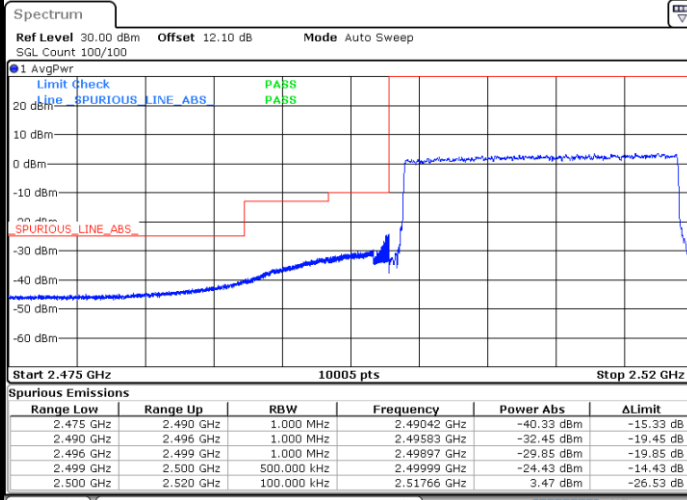
Date: 13.FEB.2023 10:38:21

Date: 13.FEB.2023 10:40:04



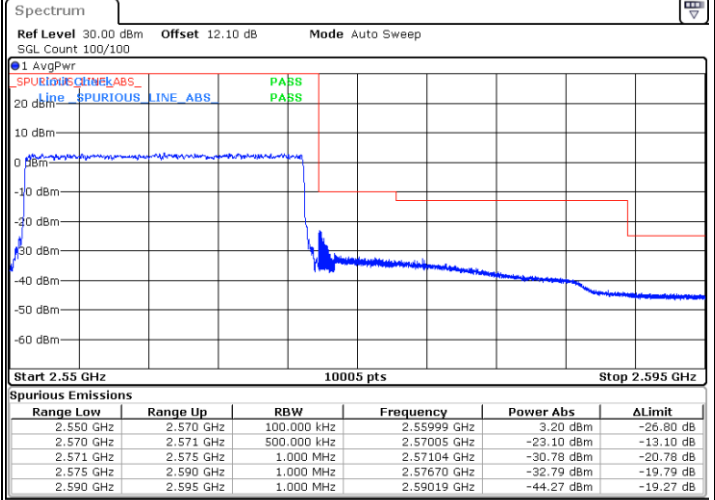
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 13.FEB.2023 10:20:43

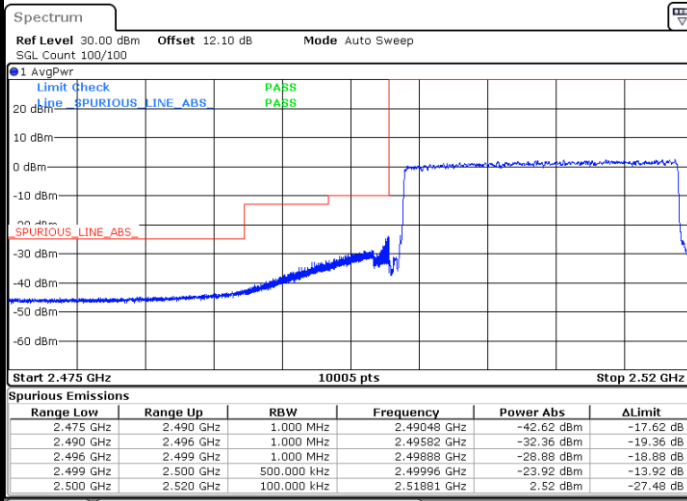
Highest Band Edge / Full RB



Date: 13.FEB.2023 10:25:34

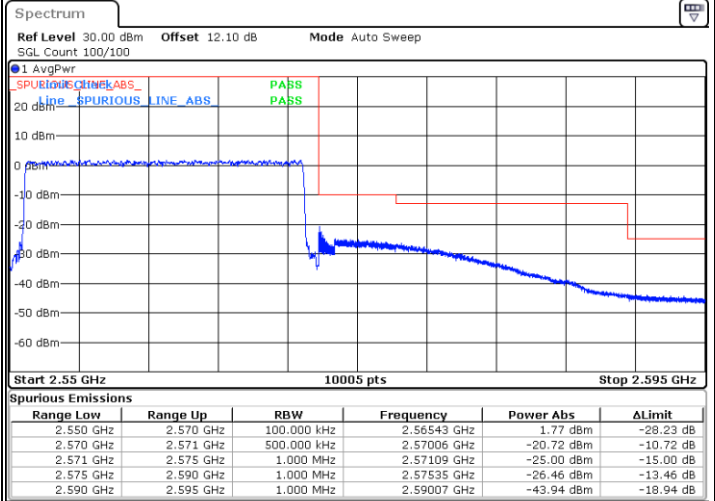
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 13.FEB.2023 10:21:42

Highest Band Edge / Full RB



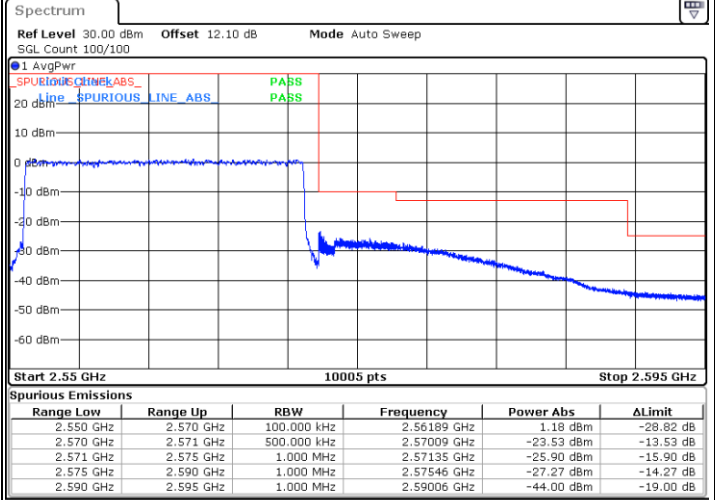
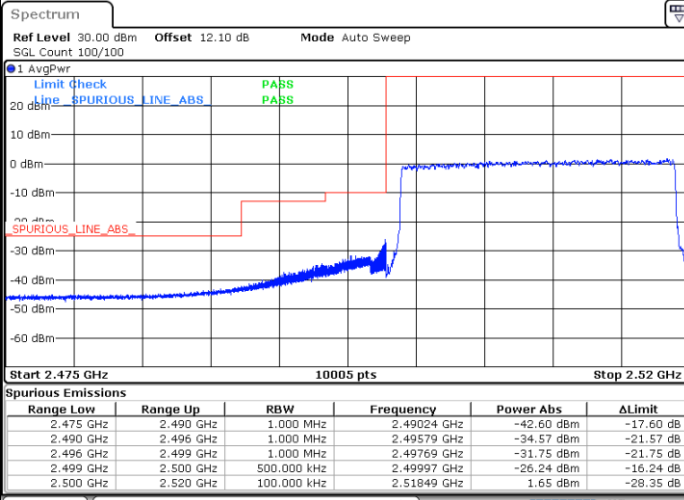
Date: 13.FEB.2023 10:24:36



LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



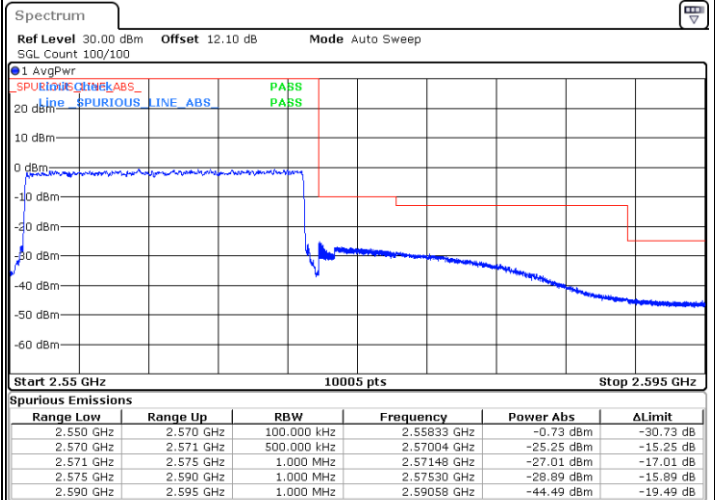
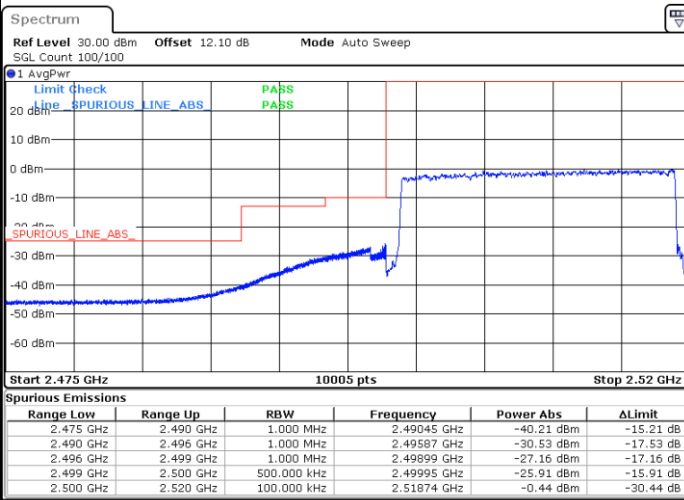
Date: 13.FEB.2023 10:26:33

Date: 13.FEB.2023 10:28:17

LTE Band 7 / 20MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



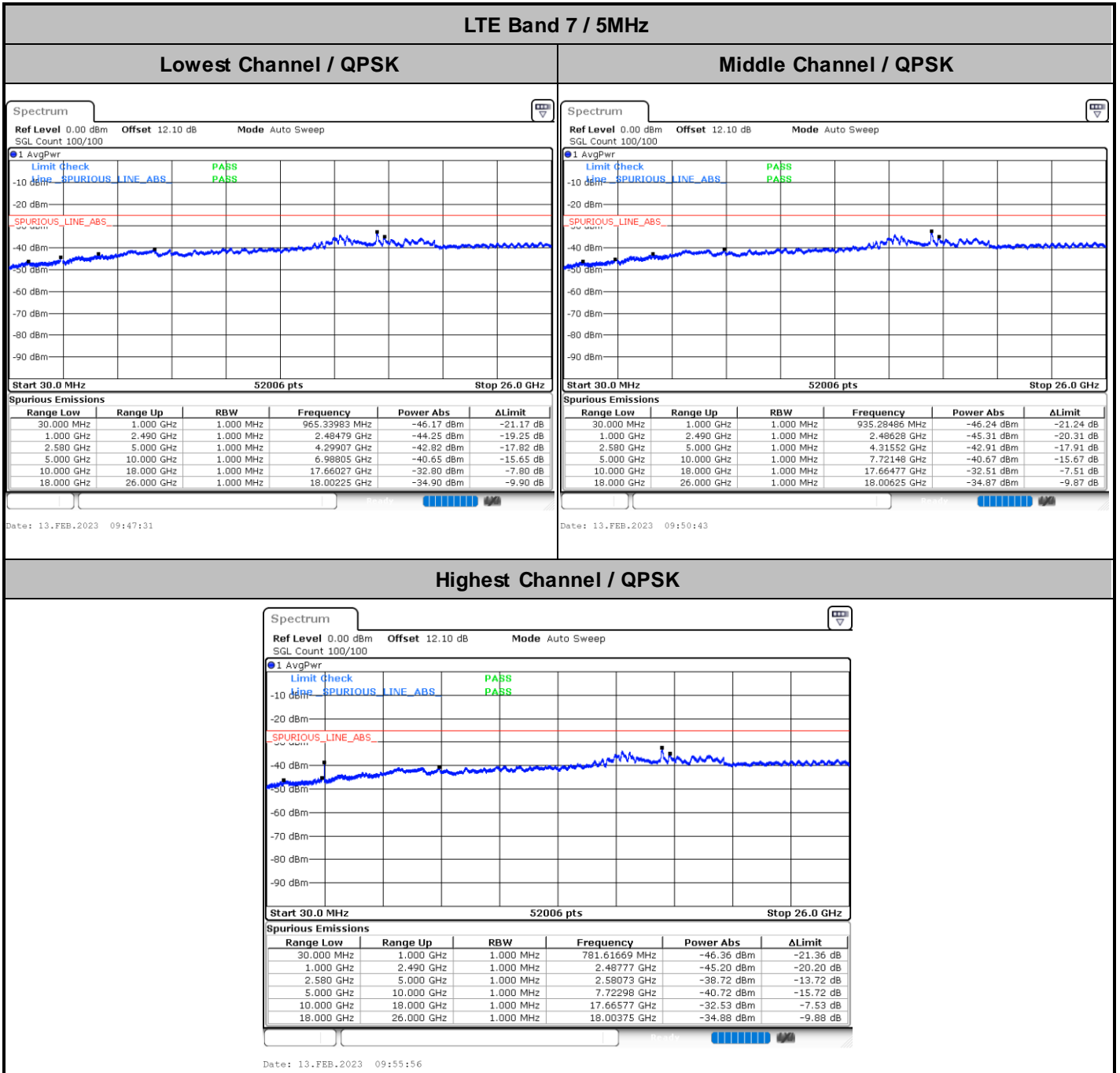
Date: 13.FEB.2023 10:41:08

Date: 13.FEB.2023 10:42:50





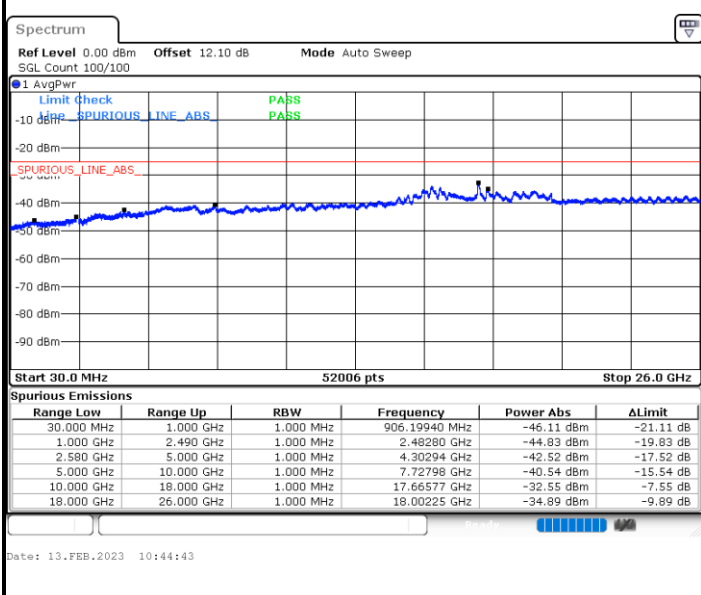
# Conducted Spurious Emission



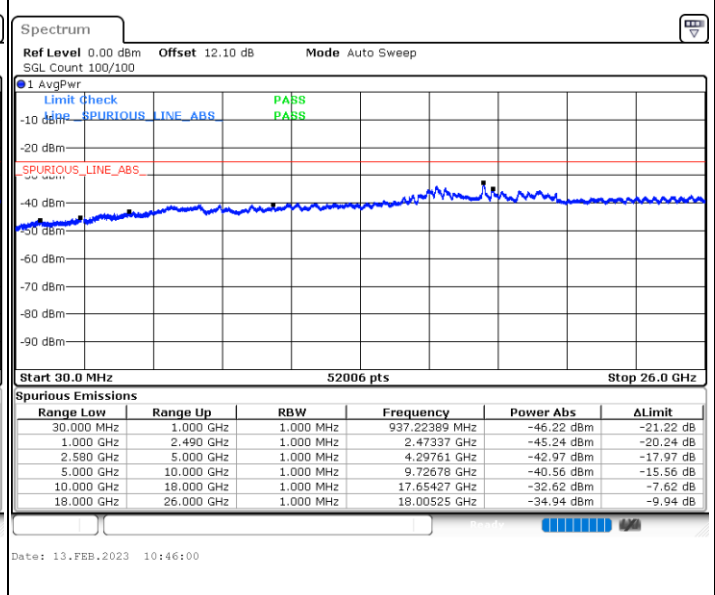


**LTE Band 7 / 10MHz**

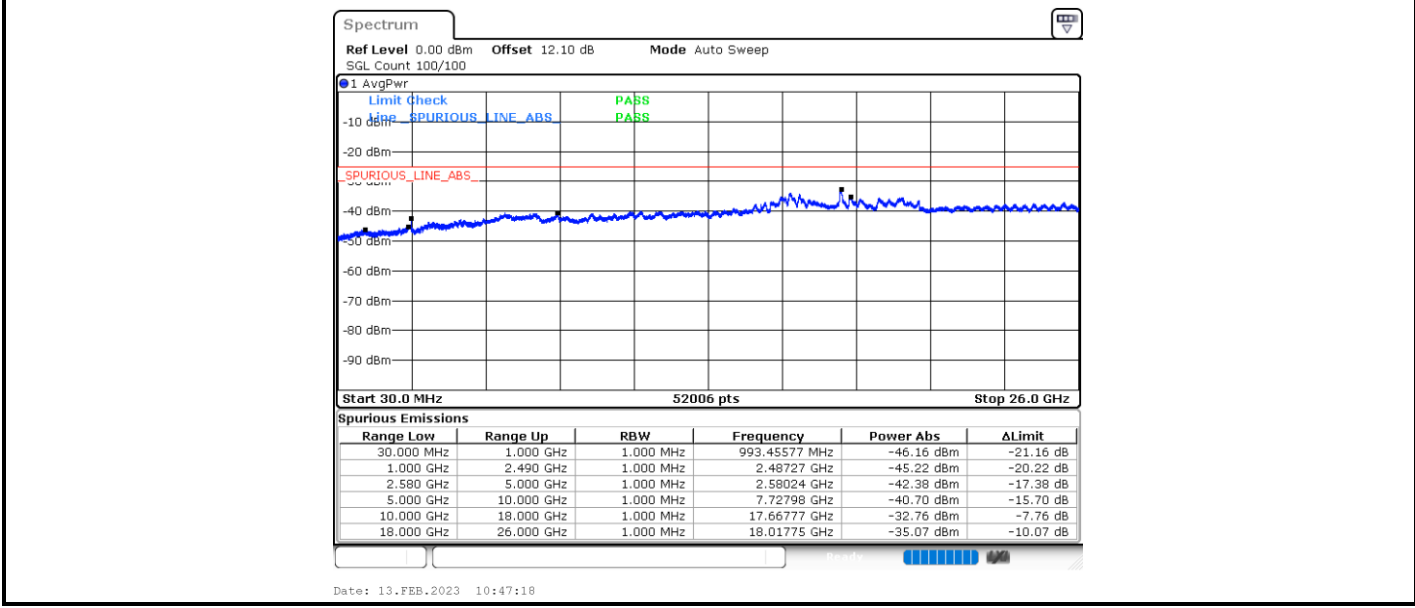
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



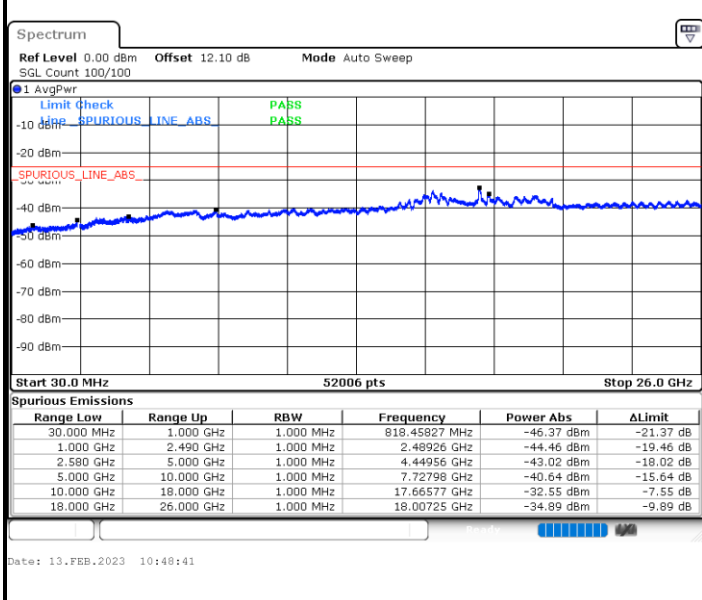
**Highest Channel / QPSK**



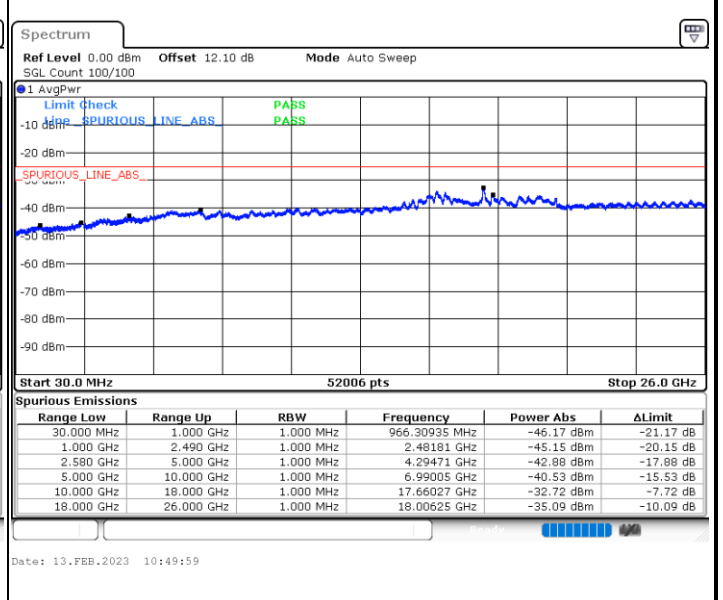


**LTE Band 7 / 15MHz**

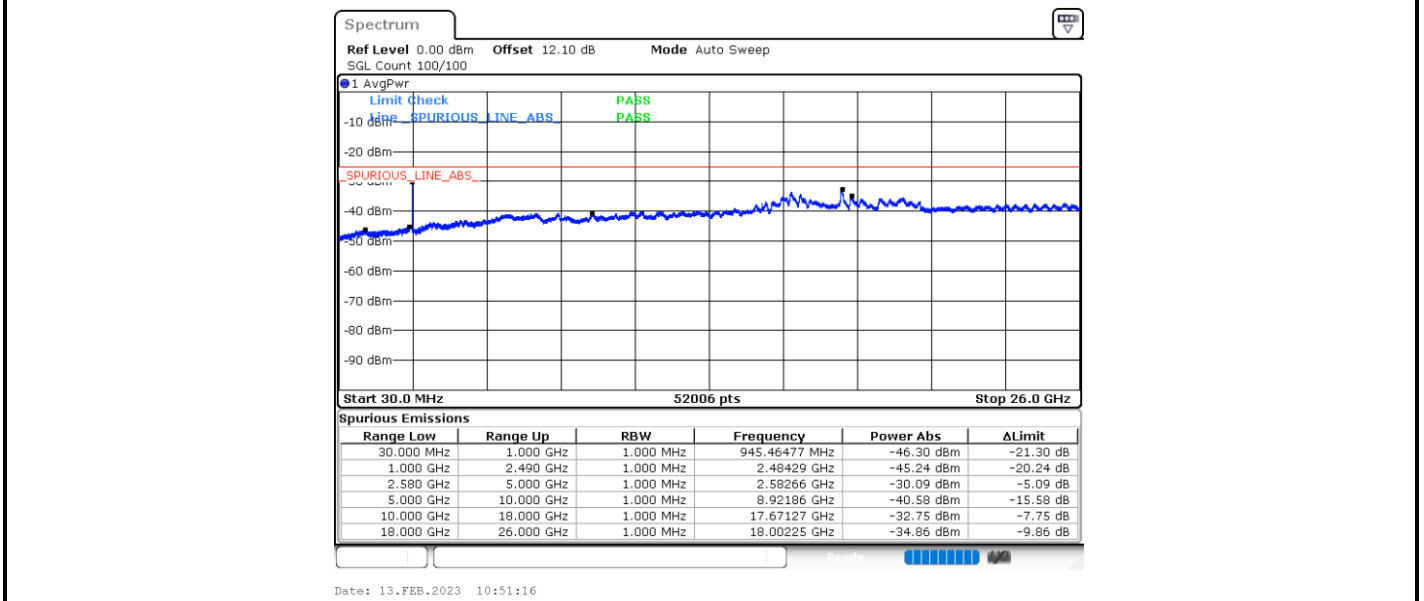
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

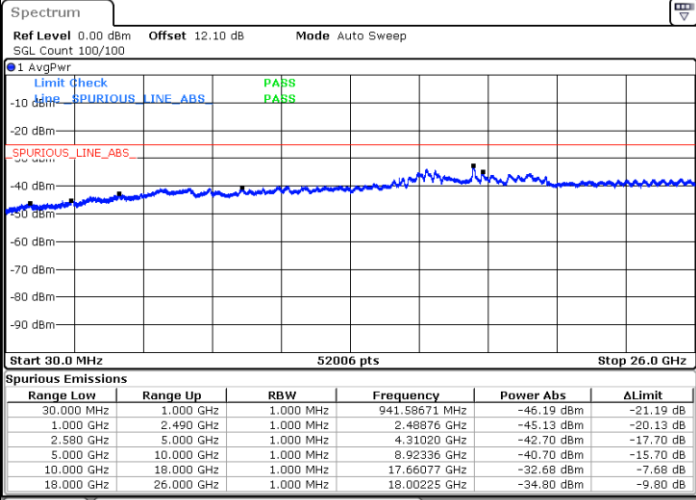




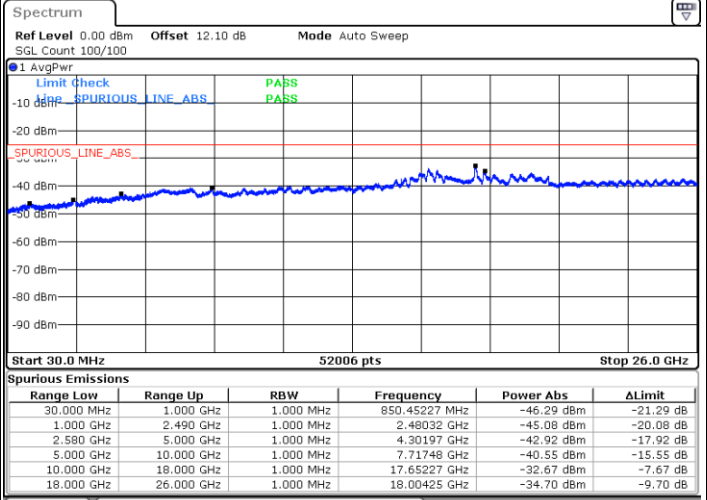
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

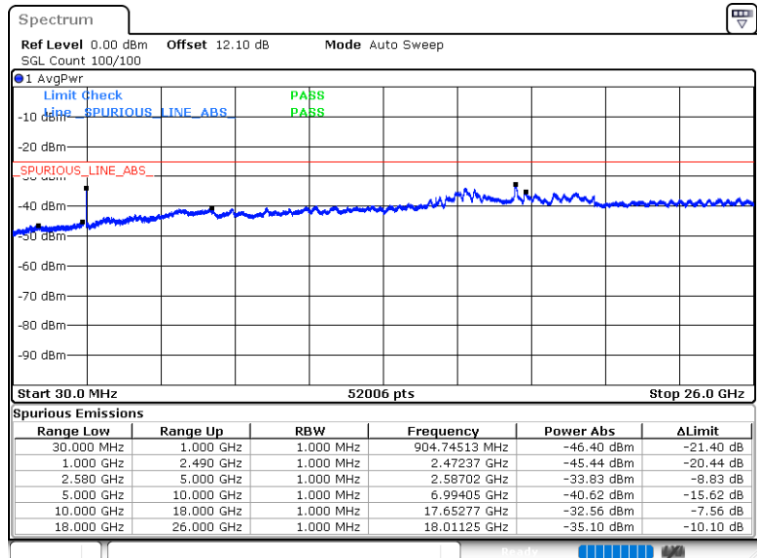


Date: 13.FEB.2023 10:52:40



Date: 13.FEB.2023 10:53:57

Highest Channel / QPSK



Date: 13.FEB.2023 10:55:14



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	0.0026	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0045	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0043	
-30	Normal Voltage	0.0039	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage = 3.89 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	30.39	25.28	30.87	35.59
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	35.39	39.96	

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.97	25.28	30.57	34.97
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.21	34.97	39.80	

Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	30.45	25.23	30.51	34.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	35.11	39.96	

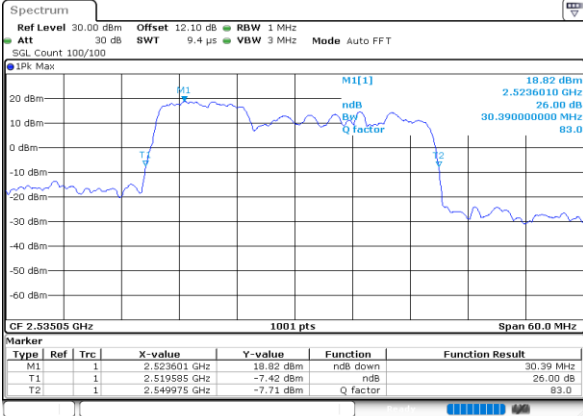
Mode	LTE Band 7C : 26dB BW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.79	25.23	30.69	34.97
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.27	34.90	39.80	



LTE Band 7C

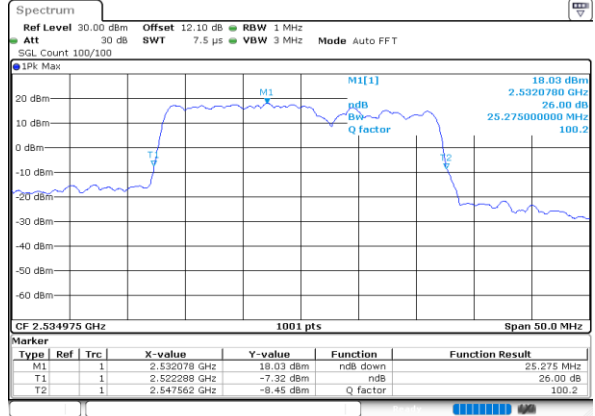
QPSK

Middle Channel / 10MHz+20MHz



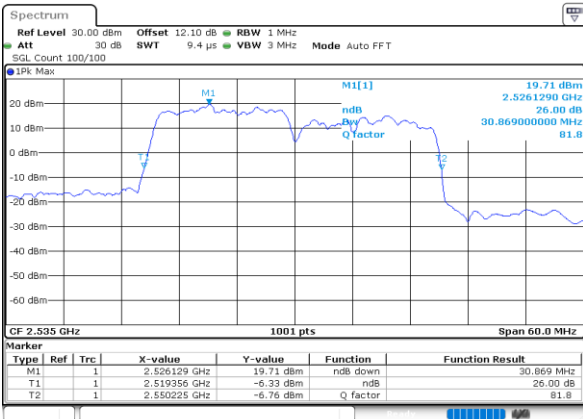
Date: 14.FEB.2023 16:12:15

Middle Channel / 15MHz+10MHz



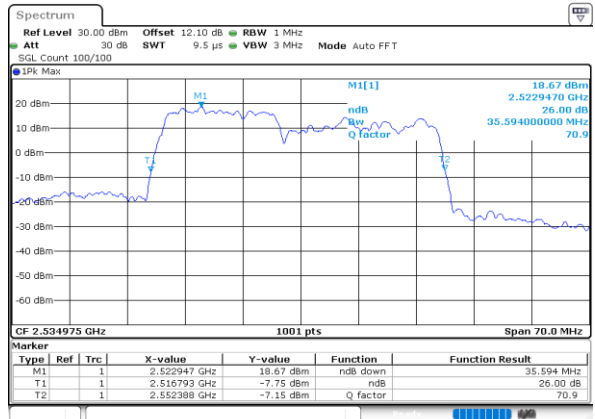
Date: 15.FEB.2023 04:58:26

Middle Channel / 15MHz+15MHz



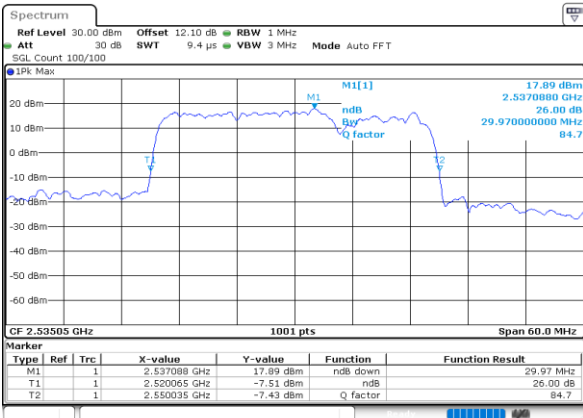
Date: 14.FEB.2023 18:24:39

Middle Channel / 15MHz+20MHz



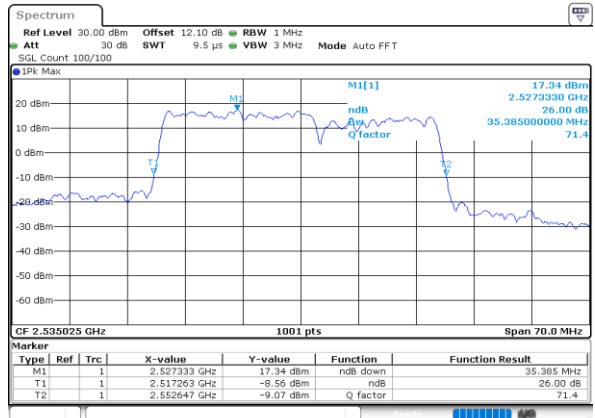
Date: 15.FEB.2023 02:39:19

Middle Channel / 20MHz+10MHz



Date: 14.FEB.2023 17:41:09

Middle Channel / 20MHz+15MHz



Date: 15.FEB.2023 03:27:20

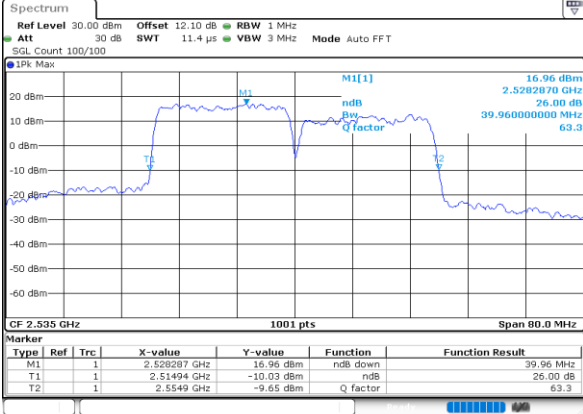


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



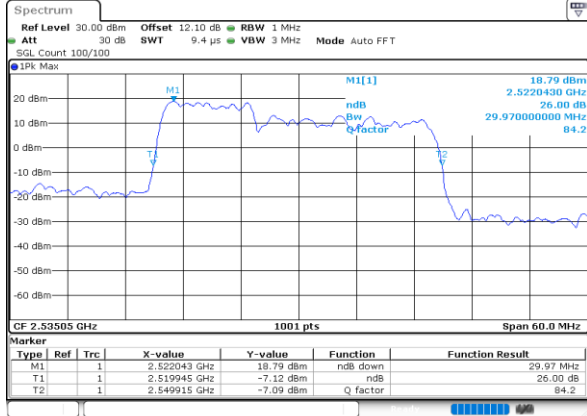




LTE Band 7C

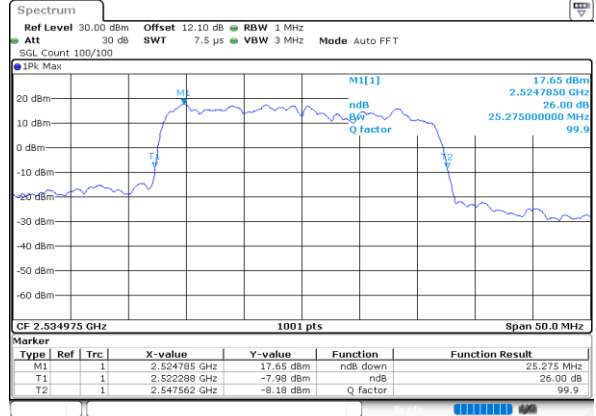
16QAM

Middle Channel / 10MHz+20MHz



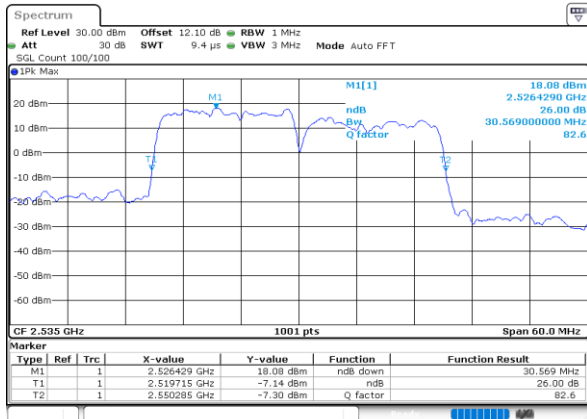
Date: 14.FEB.2023 16:11:39

Middle Channel / 15MHz+10MHz



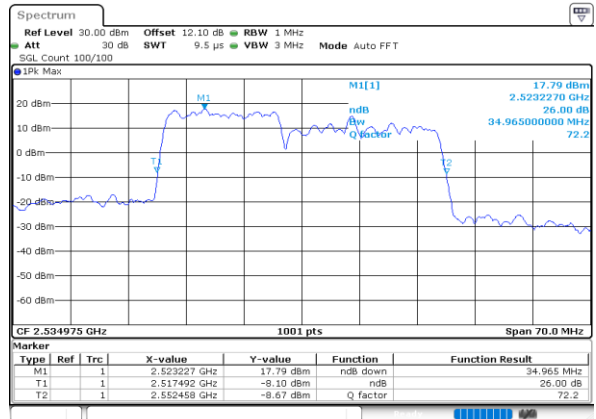
Date: 15.FEB.2023 04:57:49

Middle Channel / 15MHz+15MHz



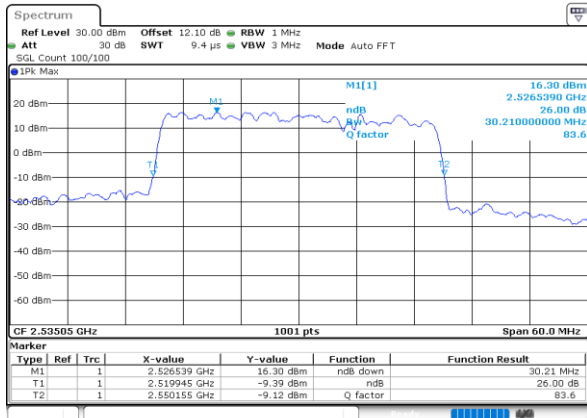
Date: 14.FEB.2023 18:24:08

Middle Channel / 15MHz+20MHz



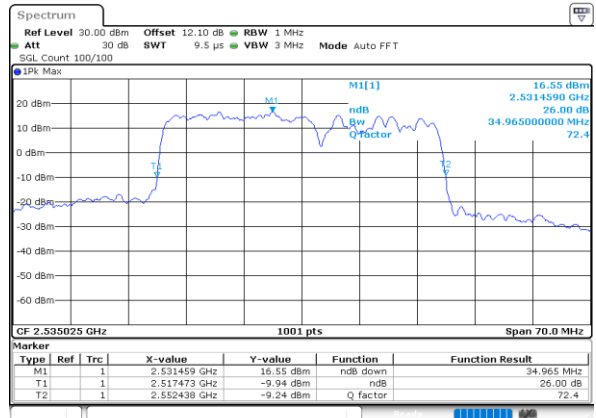
Date: 15.FEB.2023 02:18:42

Middle Channel / 20MHz+10MHz



Date: 14.FEB.2023 17:40:31

Middle Channel / 20MHz+15MHz



Date: 15.FEB.2023 03:26:44

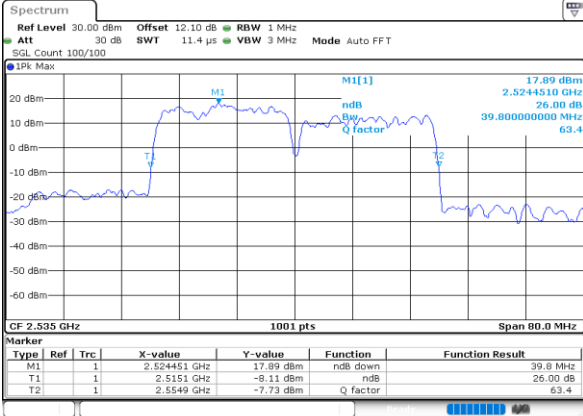


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A



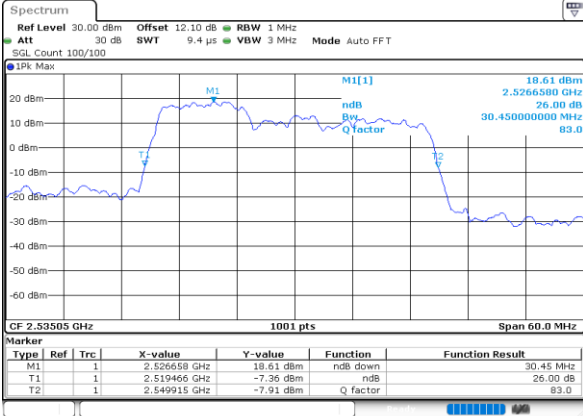
Date: 15.FEB.2023 04:10:16



LTE Band 7C

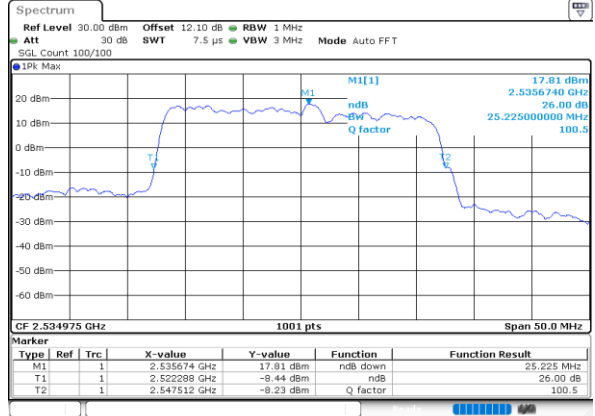
64QAM

Middle Channel / 10MHz+20MHz



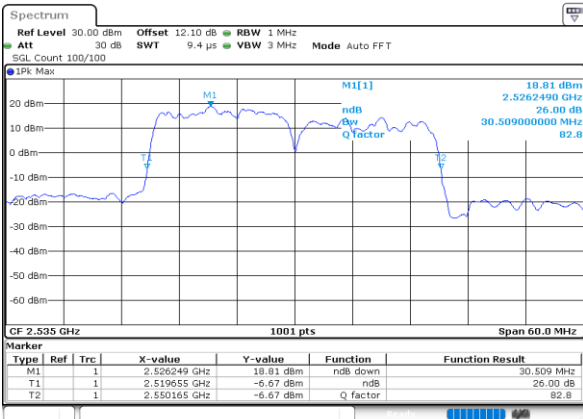
Date: 14.FEB.2023 16:11:01

Middle Channel / 15MHz+10MHz



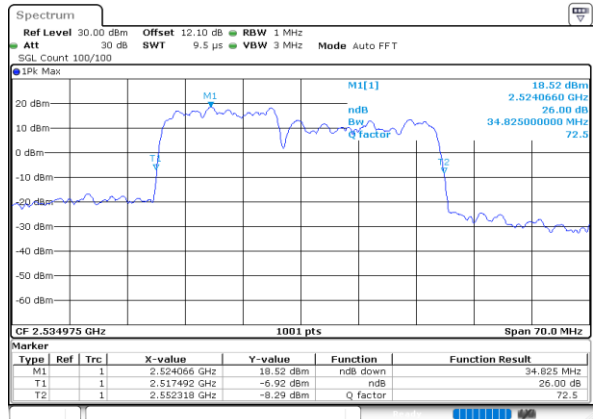
Date: 15.FEB.2023 04:57:13

Middle Channel / 15MHz+15MHz



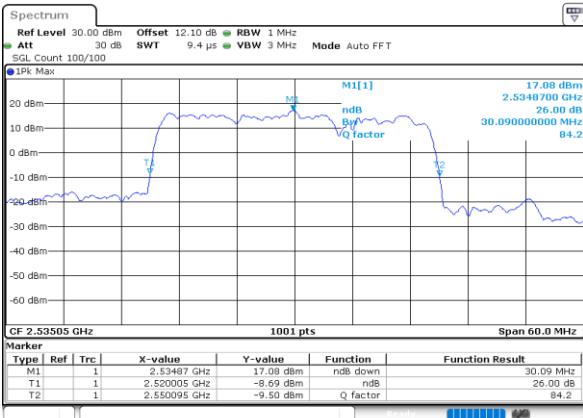
Date: 14.FEB.2023 18:23:36

Middle Channel / 15MHz+20MHz



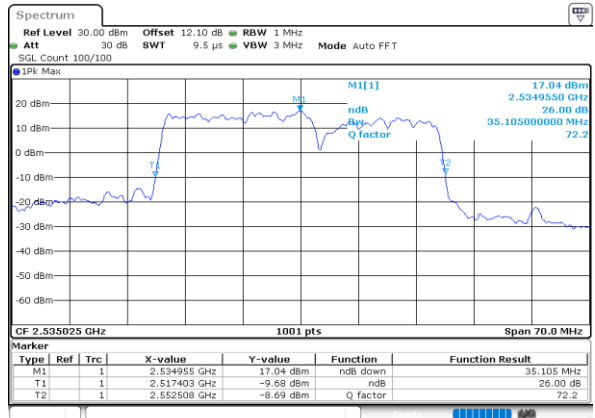
Date: 15.FEB.2023 02:13:05

Middle Channel / 20MHz+10MHz



Date: 14.FEB.2023 17:39:54

Middle Channel / 20MHz+15MHz



Date: 15.FEB.2023 03:26:07

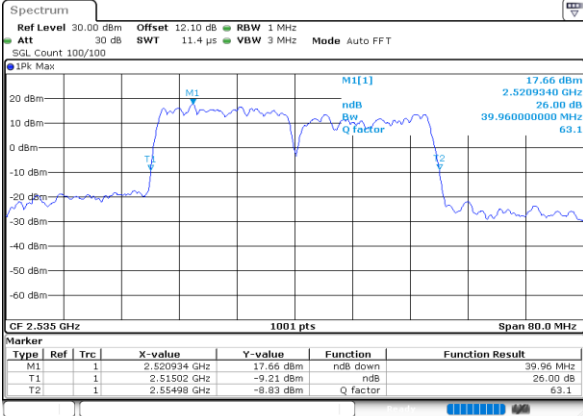


LTE Band 7C

64QAM

Middle Channel / 20MHz+20MHz

N/A



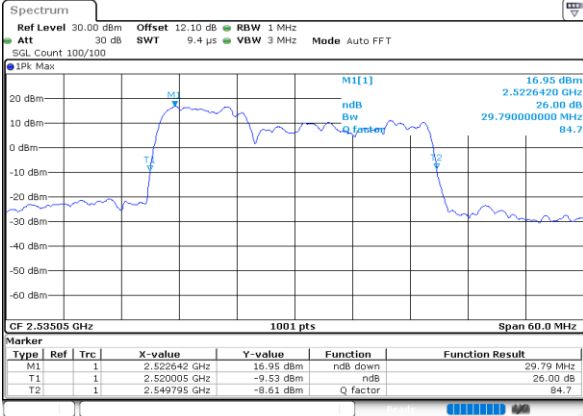
Date: 15.FEB.2023 04:09:43



LTE Band 7C

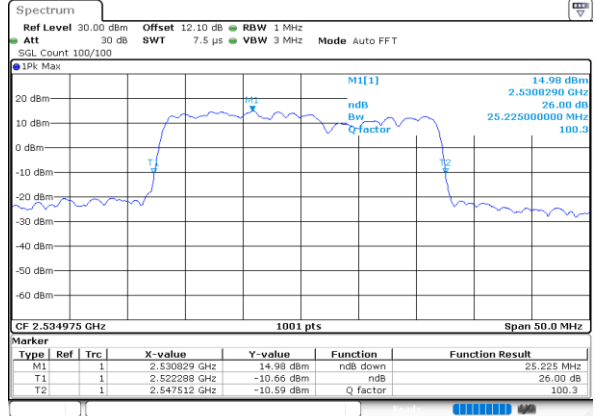
256QAM

Middle Channel / 10MHz+20MHz



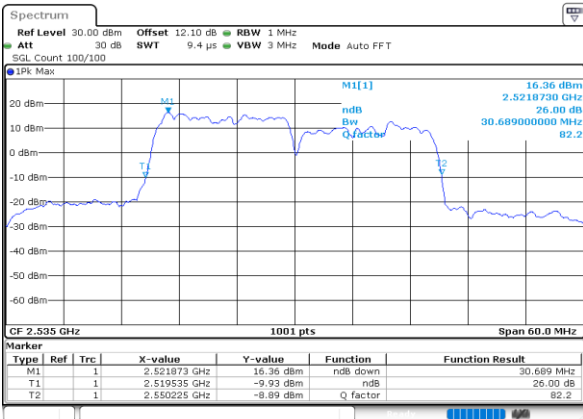
Date: 15.FEB.2023 05:14:37

Middle Channel / 15MHz+10MHz



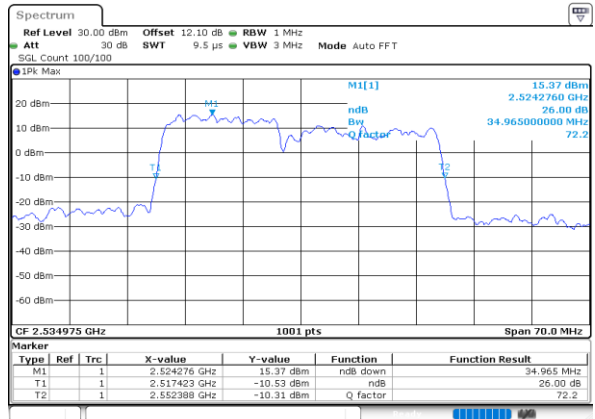
Date: 15.FEB.2023 08:15:29

Middle Channel / 15MHz+15MHz



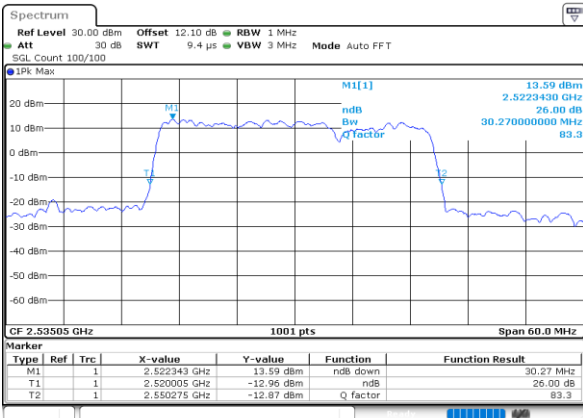
Date: 15.FEB.2023 05:19:46

Middle Channel / 15MHz+20MHz



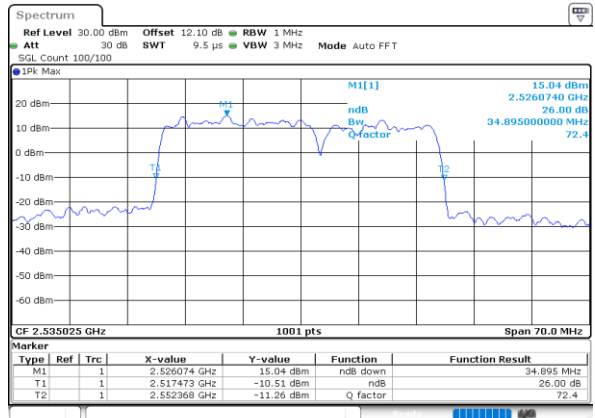
Date: 15.FEB.2023 05:15:08

Middle Channel / 20MHz+10MHz



Date: 15.FEB.2023 05:27:51

Middle Channel / 20MHz+15MHz



Date: 15.FEB.2023 06:10:24

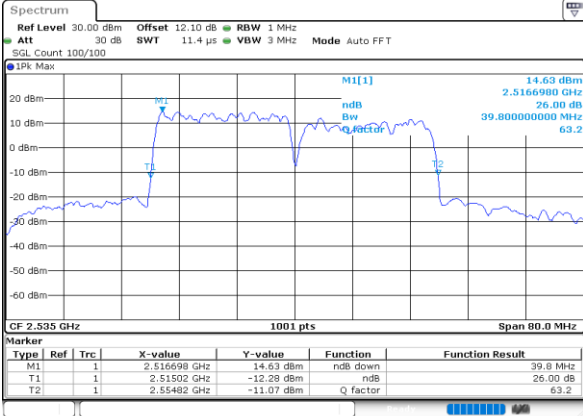


LTE Band 7C

256QAM

Middle Channel / 20MHz+20MHz

N/A





Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.17	23.33	28.41	33.08
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.99	32.66	37.96	

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	27.87	23.28	28.35	33.01
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.11	32.80	37.64	

Mode	LTE Band 7C : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	27.93	23.58	28.65	32.66
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.80	37.56	

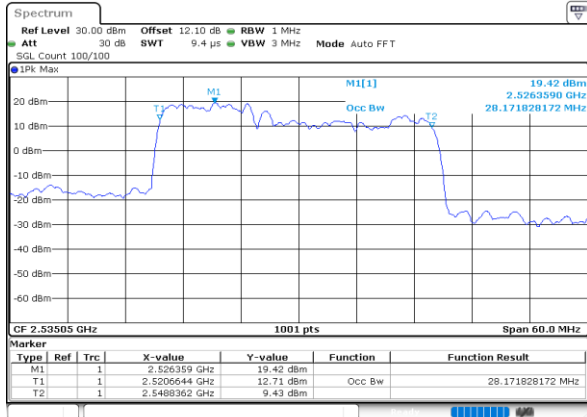
Mode	LTE Band 7C : 99%OBW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	27.81	23.48	28.59	32.94
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	33.15	37.96	



LTE Band 7C

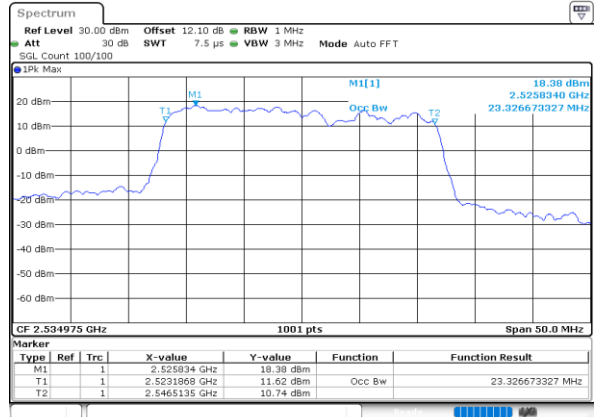
QPSK

Middle Channel / 10MHz+20MHz



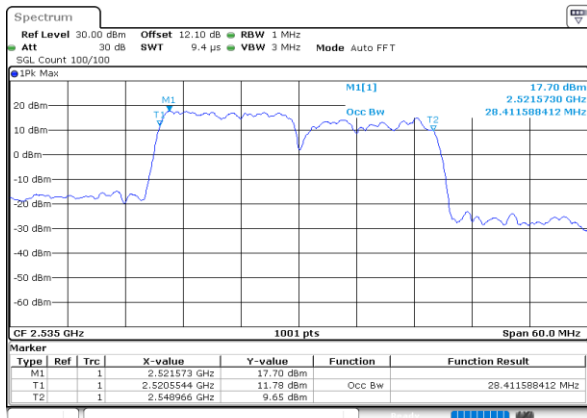
Date: 14.FEB.2023 16:05:27

Middle Channel / 15MHz+10MHz



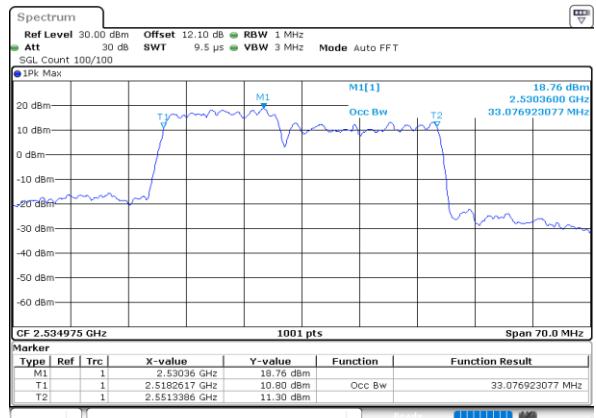
Date: 15.FEB.2023 04:51:40

Middle Channel / 15MHz+15MHz



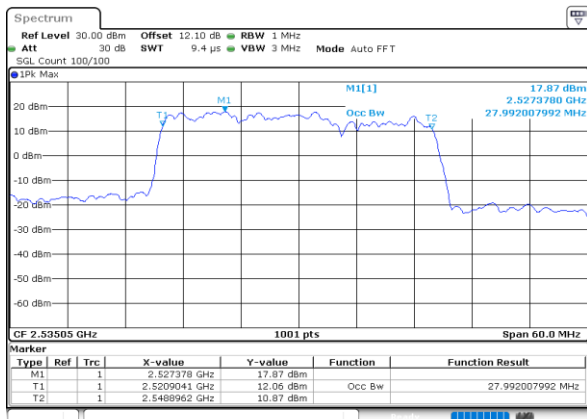
Date: 14.FEB.2023 18:18:49

Middle Channel / 15MHz+20MHz



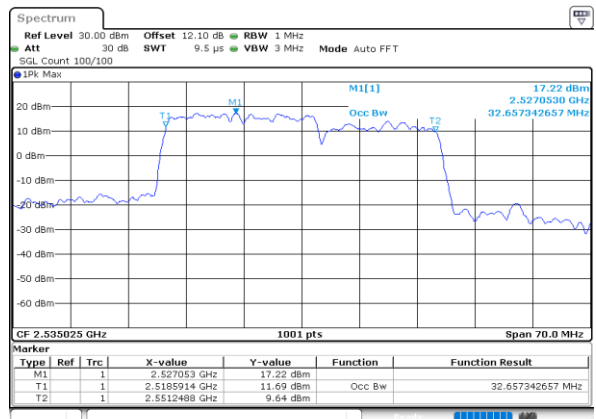
Date: 15.FEB.2023 02:32:34

Middle Channel / 20MHz+10MHz



Date: 14.FEB.2023 17:34:22

Middle Channel / 20MHz+15MHz



Date: 15.FEB.2023 03:20:34



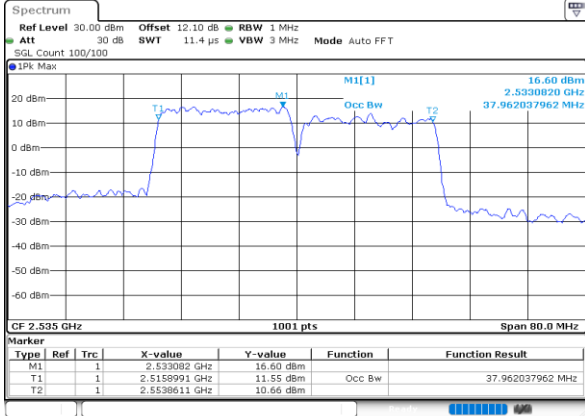


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



Date: 15.FEB.2023 04:04:57