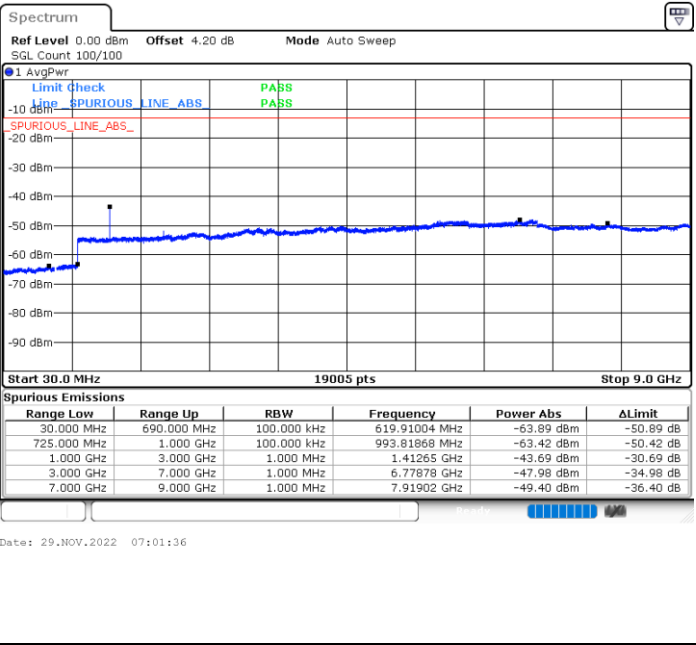
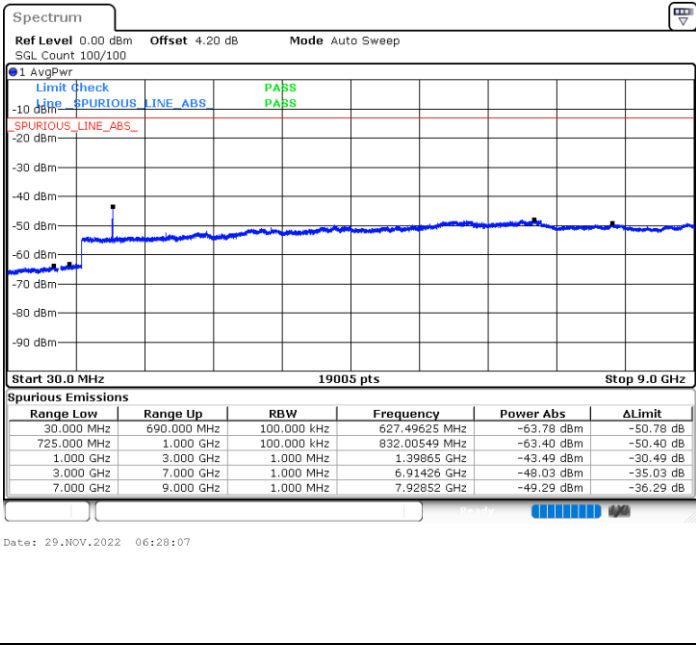




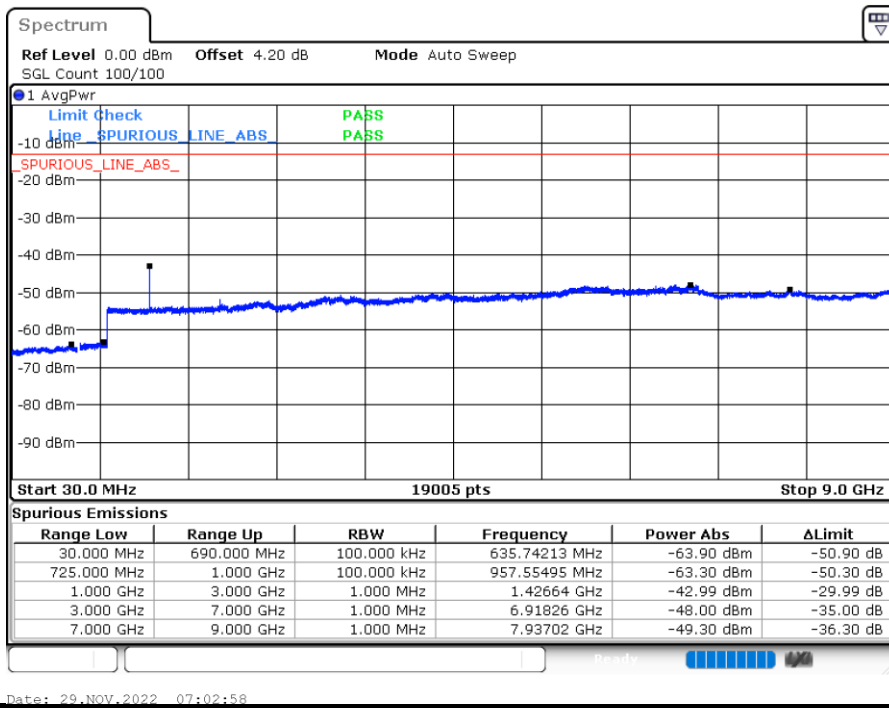
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

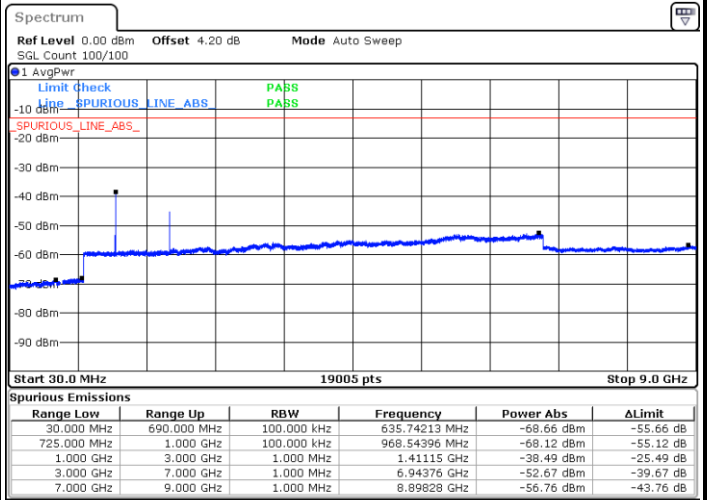
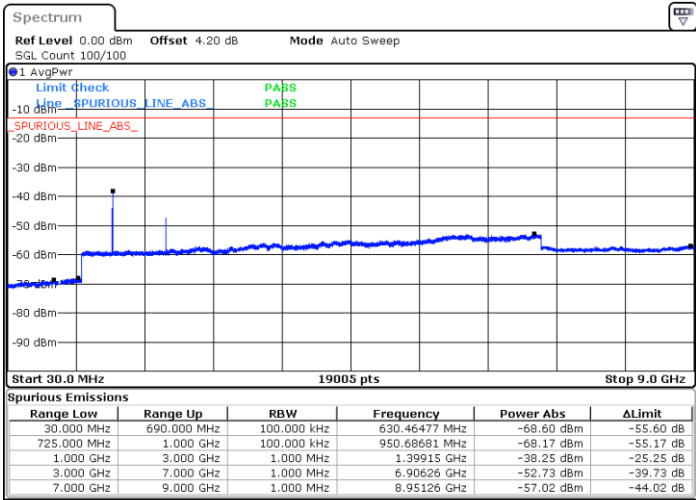




LTE Band 12 / 5MHz

Lowest Channel / QPSK

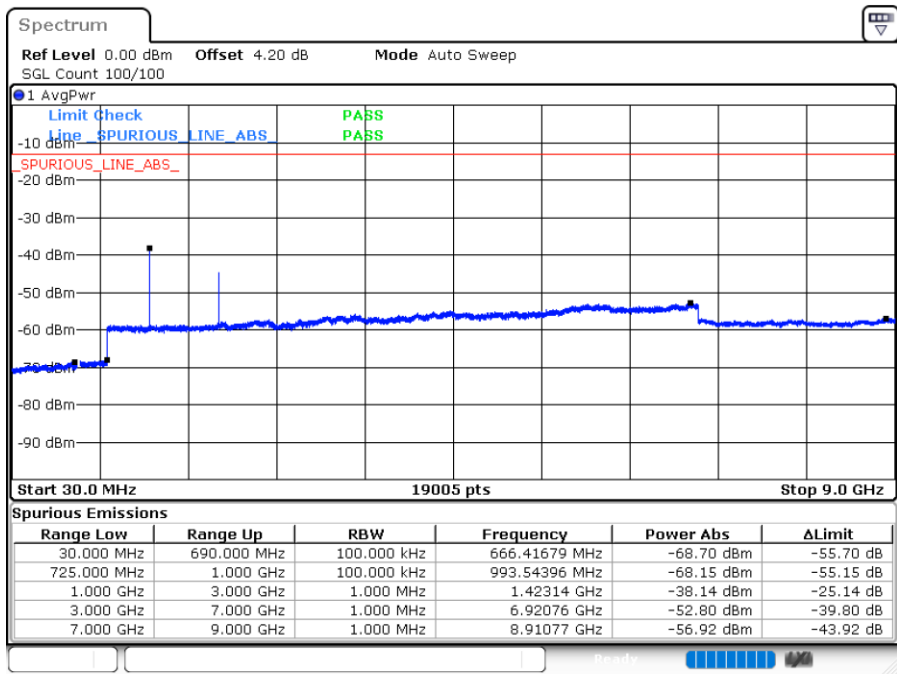
Middle Channel / QPSK



Date: 29.NOV.2022 07:24:24

Date: 29.NOV.2022 07:37:28

Highest Channel / QPSK



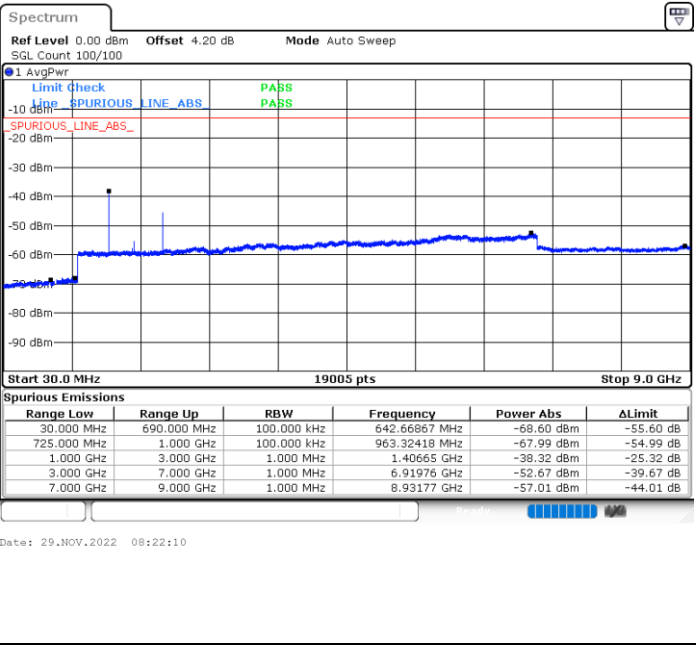
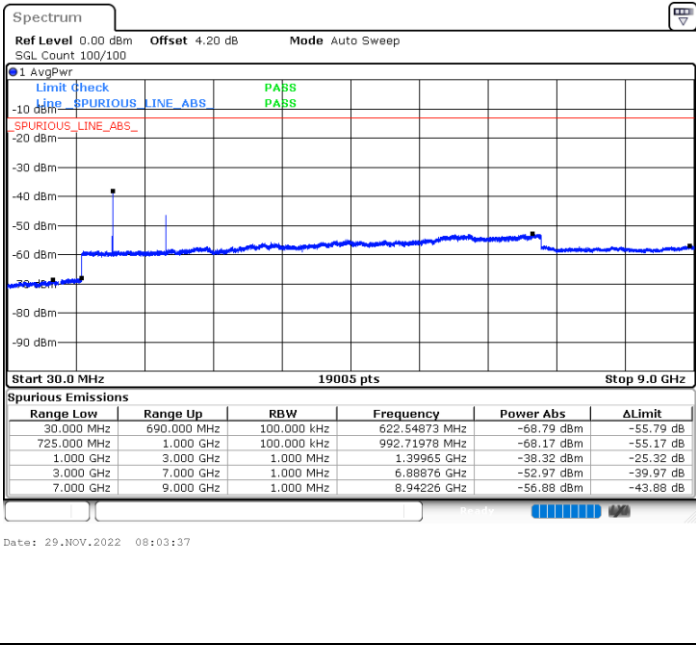
Date: 29.NOV.2022 07:38:50



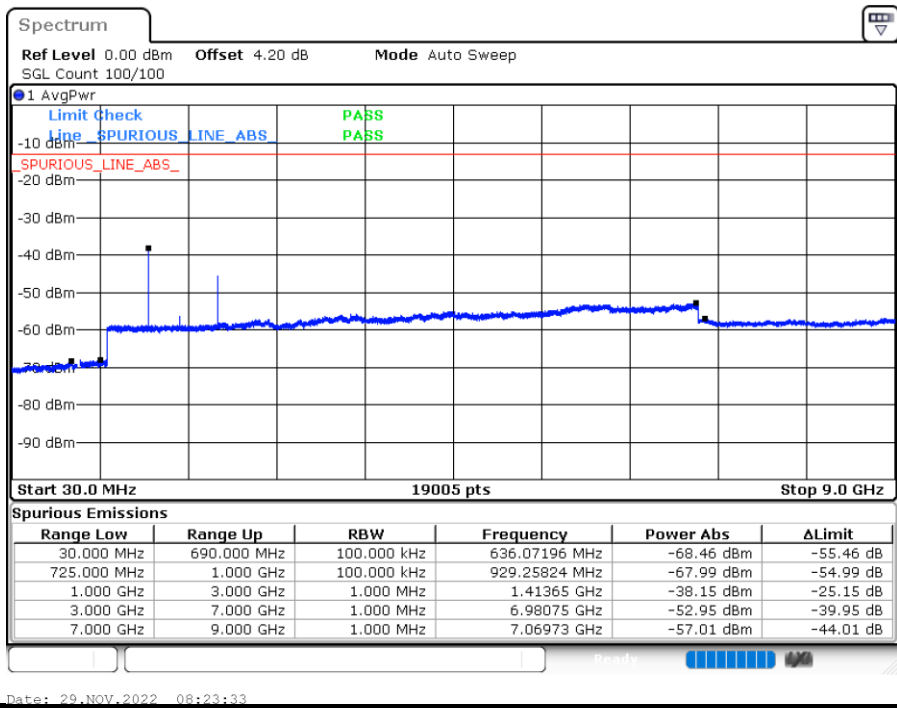
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0099	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0071	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

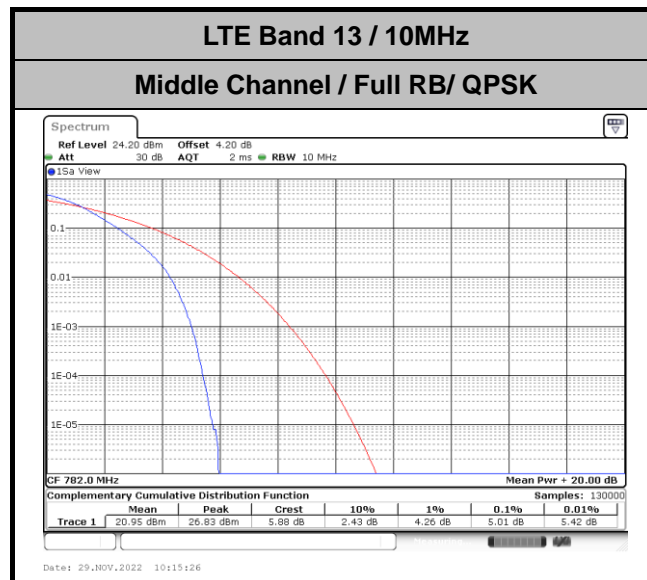
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.51 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

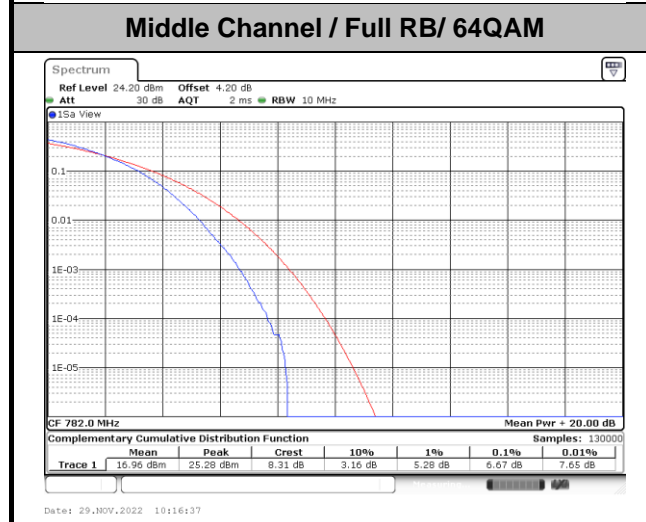
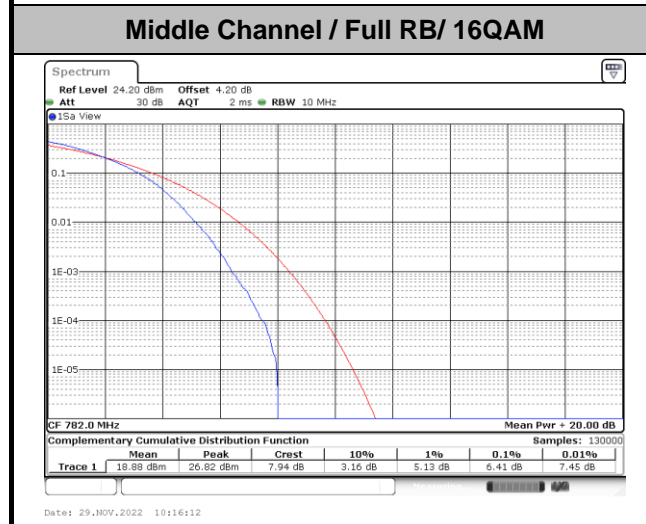
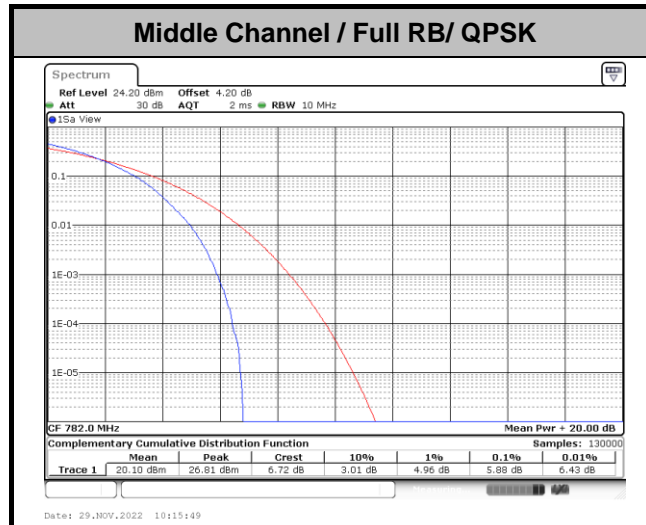


LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.01	5.88	6.41	6.67	PASS

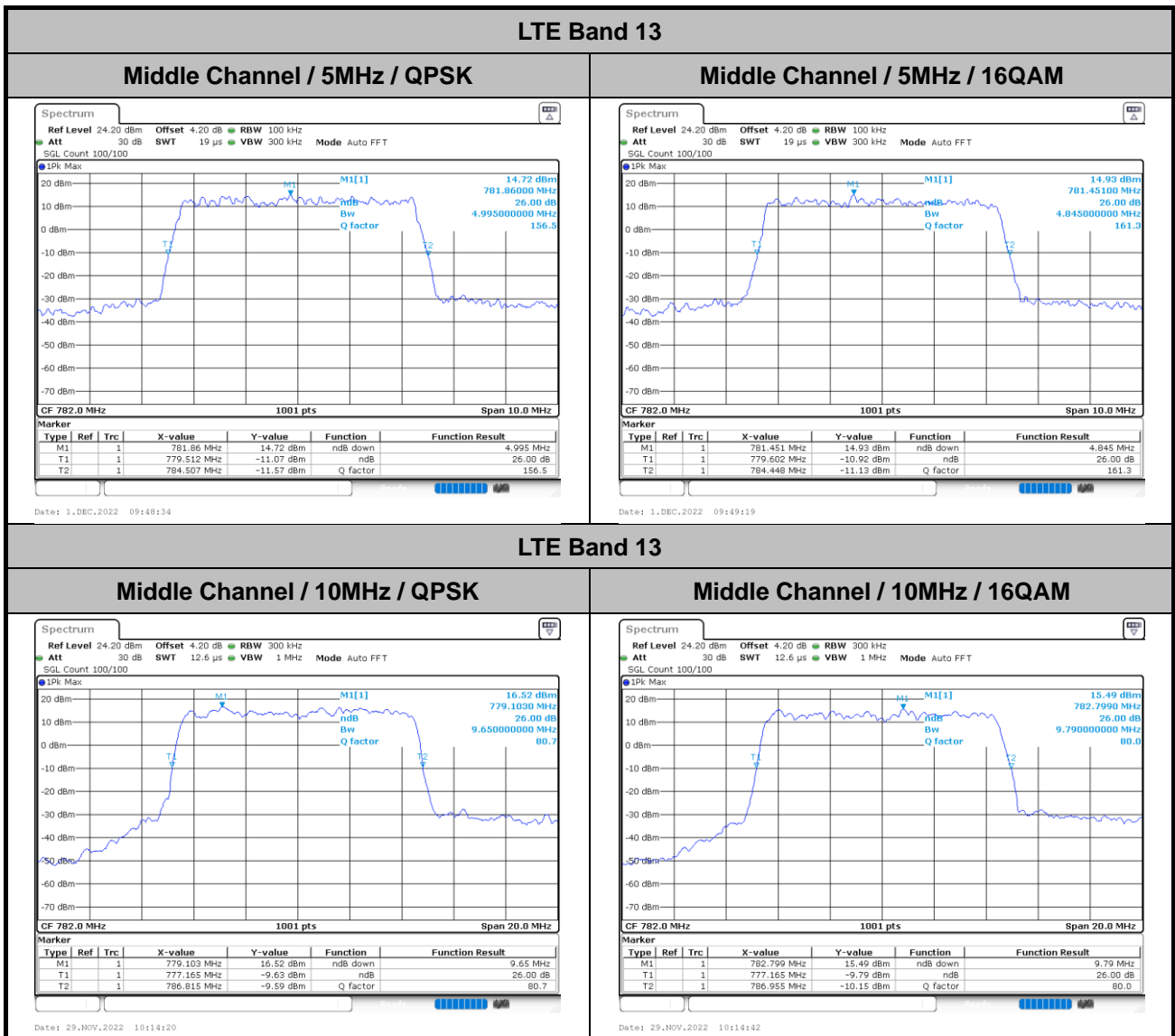






26dB Bandwidth

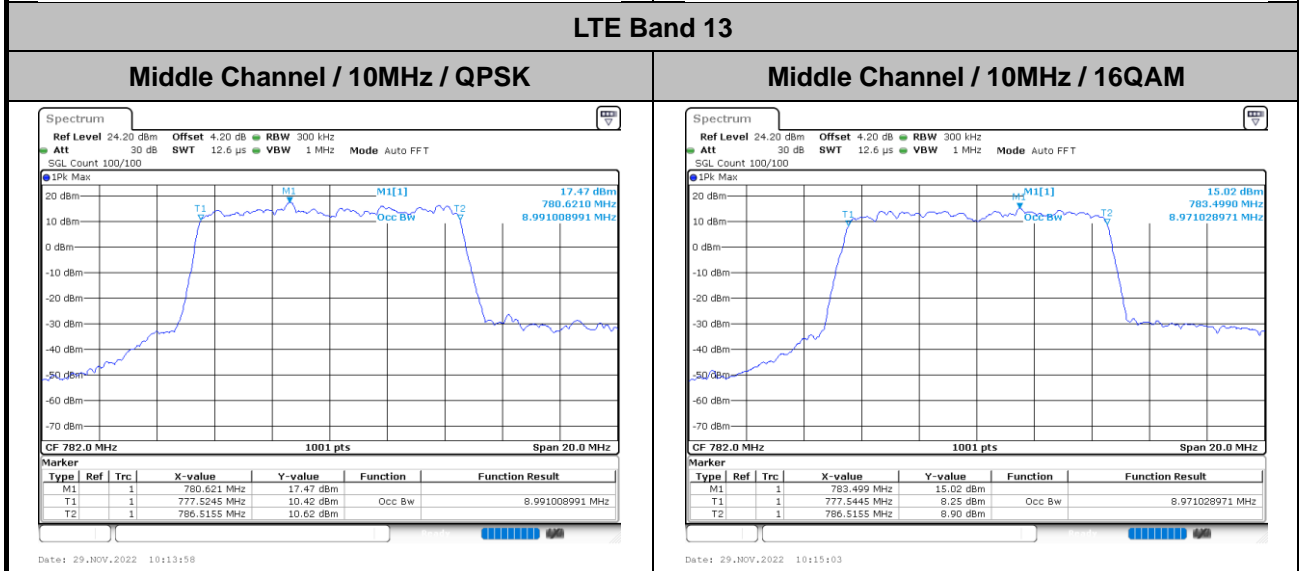
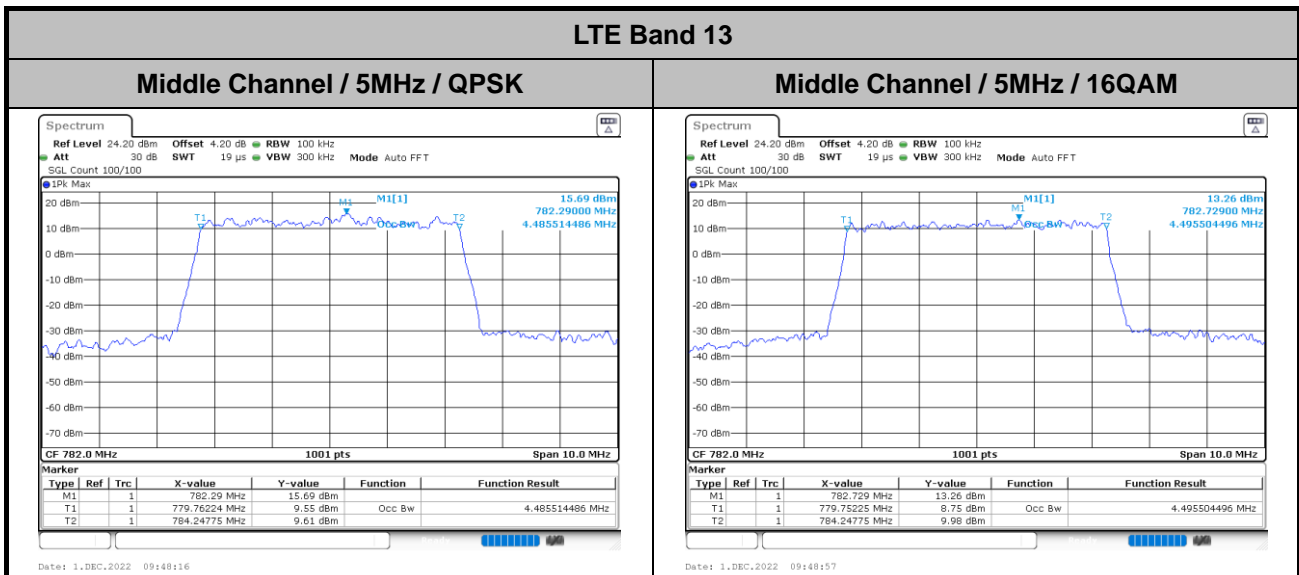
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.00	4.85
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.65	9.79





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	8.97

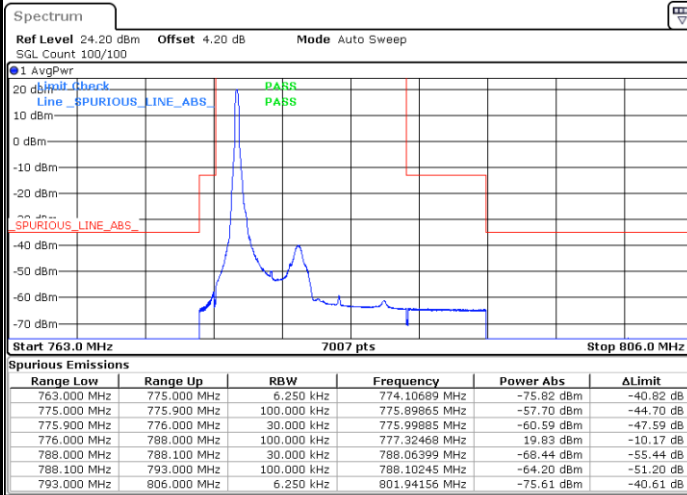




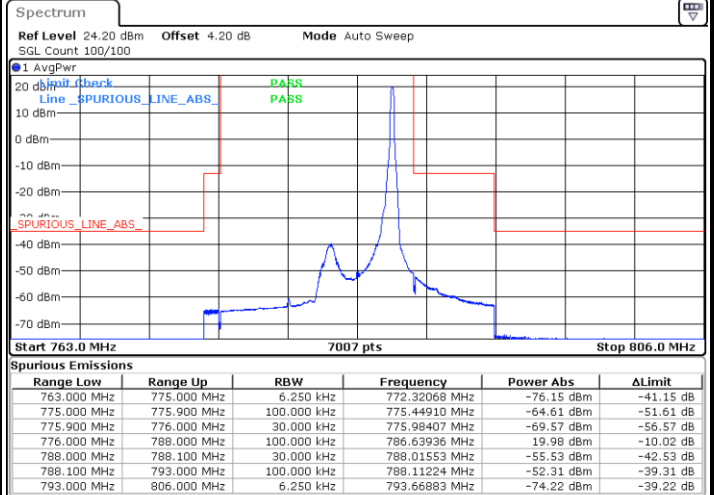
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

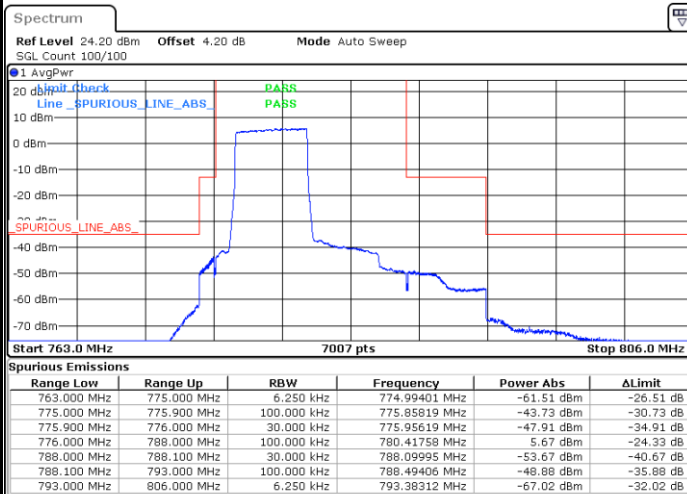
Lowest Band Edge / 1 RB



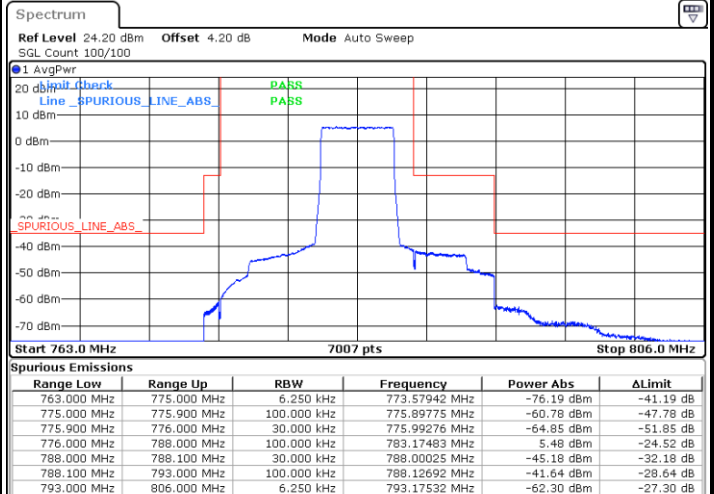
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

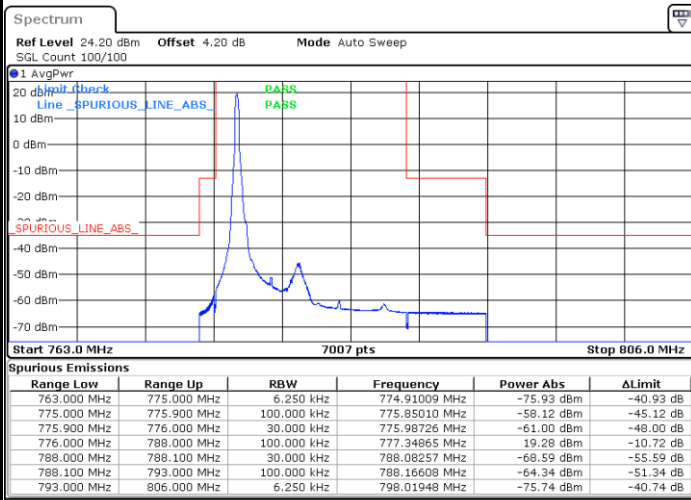




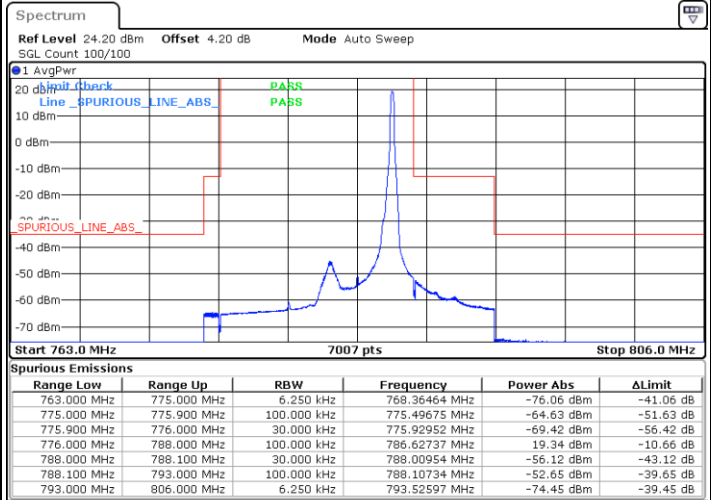
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



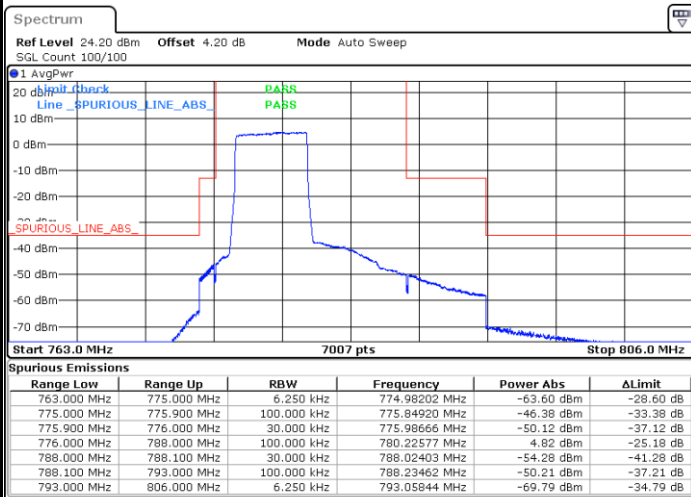
Date: 29.NOV.2022 09:18:51



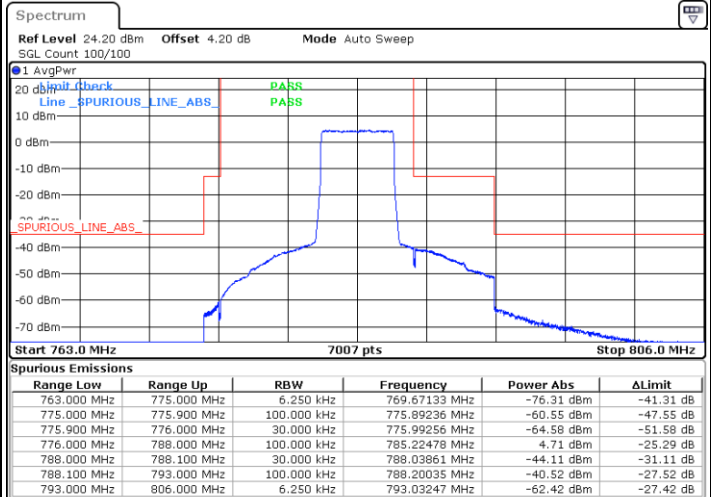
Date: 29.NOV.2022 09:38:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.NOV.2022 09:26:14



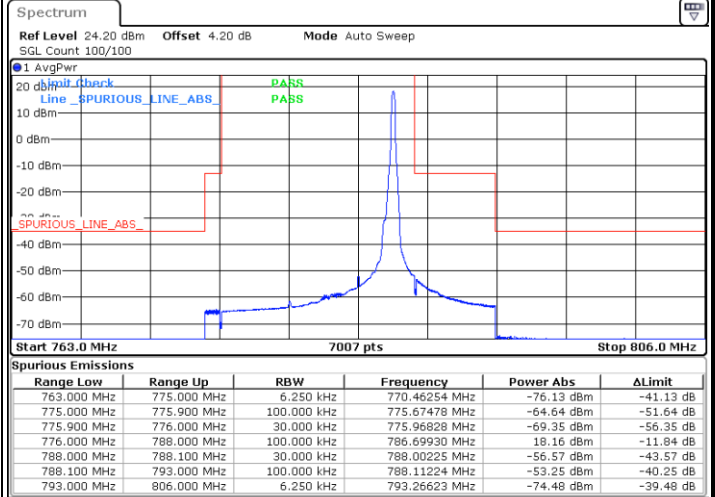
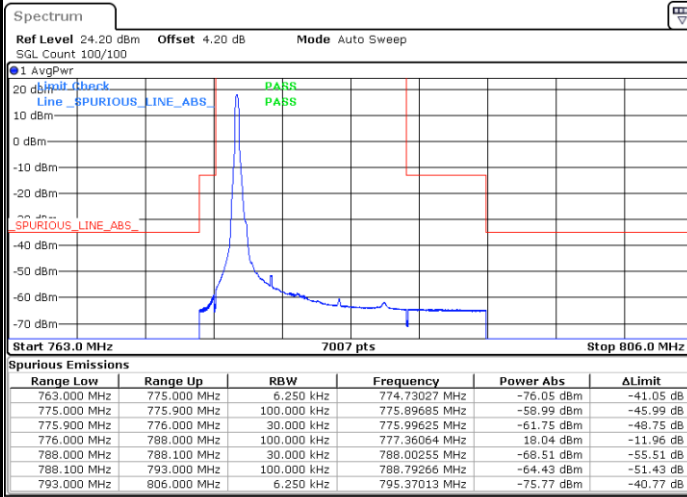
Date: 29.NOV.2022 09:46:07



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

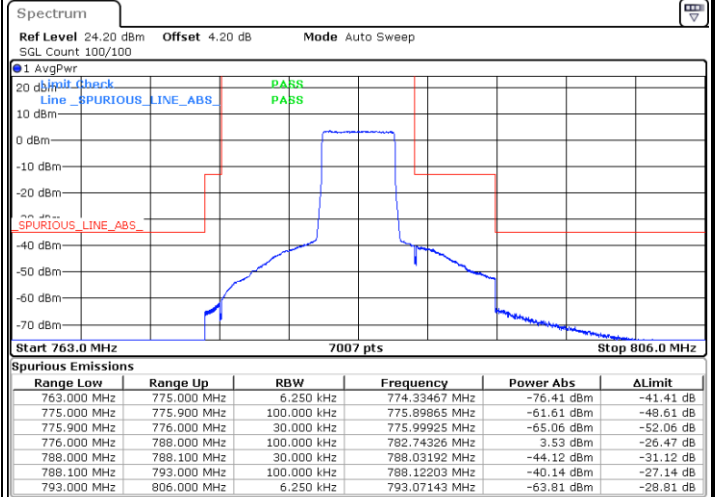
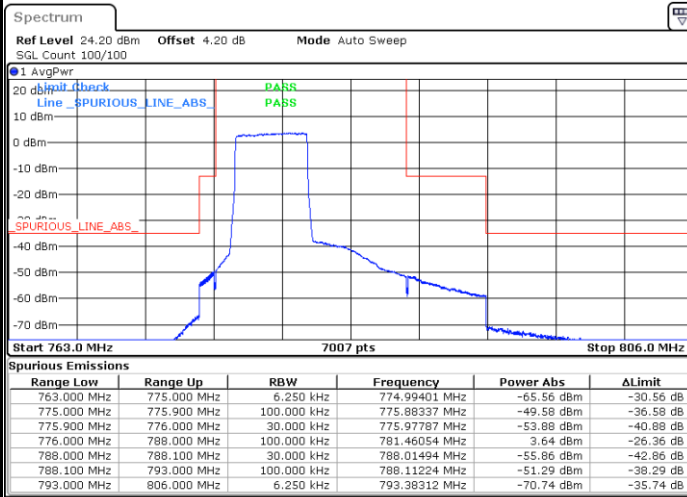


Date: 29.NOV.2022 09:20:41

Date: 29.NOV.2022 09:40:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



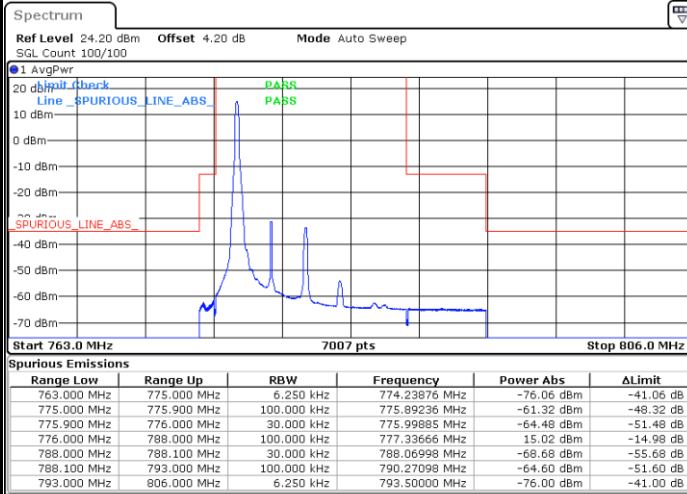
Date: 29.NOV.2022 09:28:04

Date: 29.NOV.2022 09:47:57



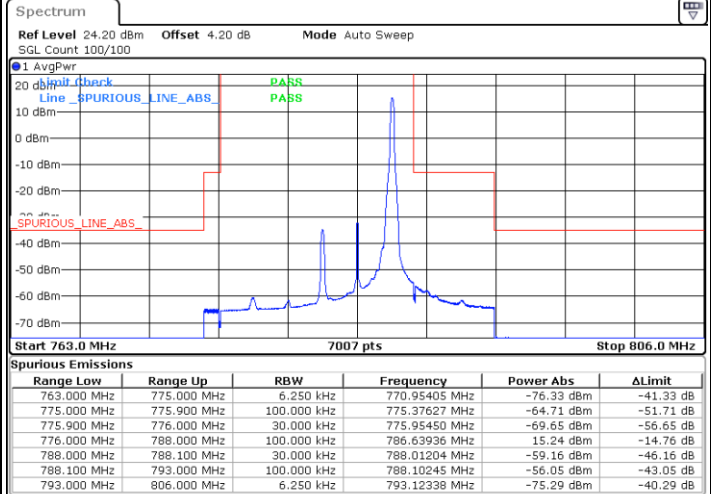
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB



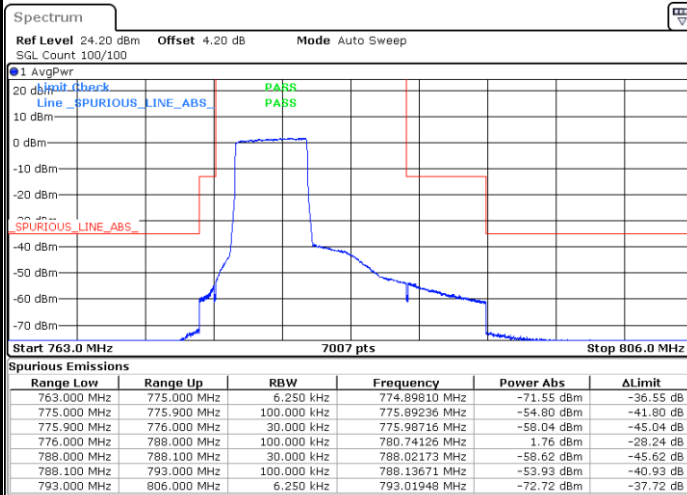
Date: 29.NOV.2022 09:22:31

Highest Band Edge / 1 RB



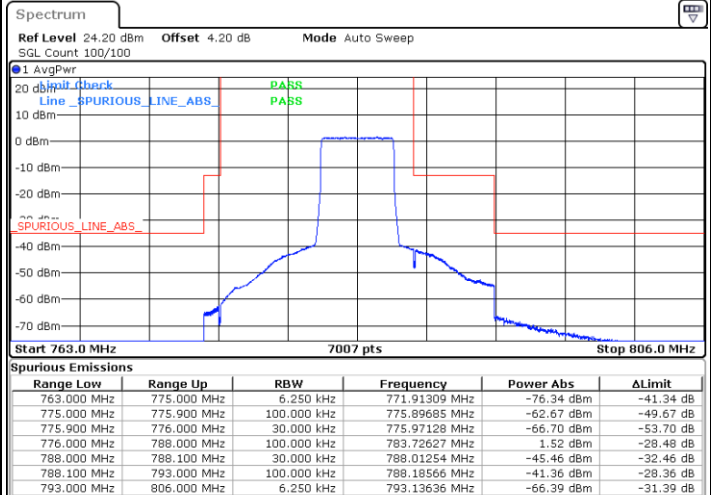
Date: 29.NOV.2022 09:42:24

Lowest Band Edge / Full RB



Date: 29.NOV.2022 09:29:55

Highest Band Edge / Full RB

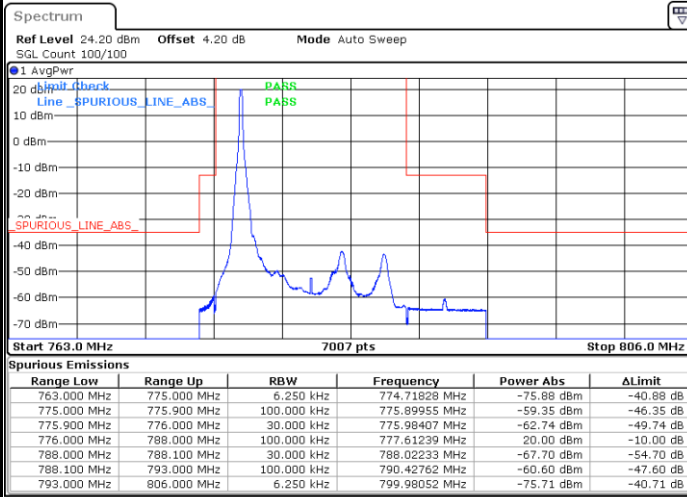


Date: 29.NOV.2022 09:49:47



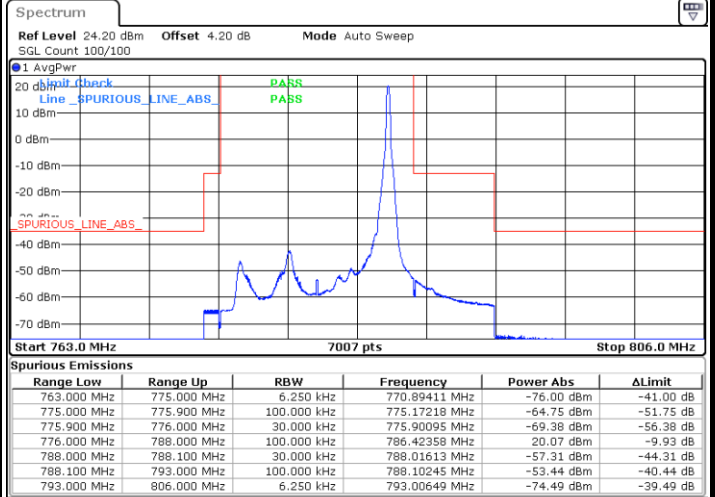
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



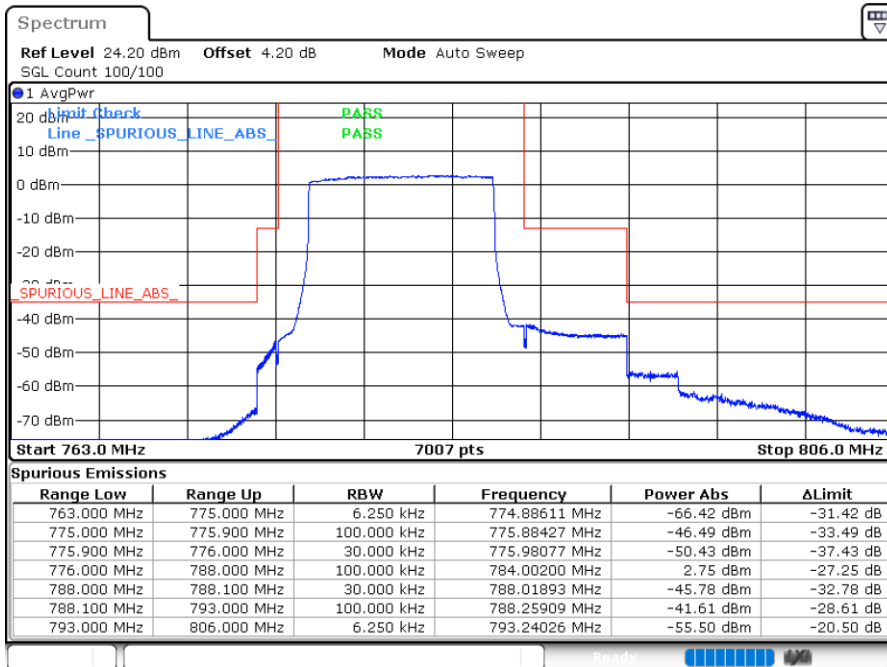
Date: 29.NOV.2022 09:53:33

middle Band Edge / 1 RB



Date: 29.NOV.2022 10:08:09

Middle Band Edge / Full RB

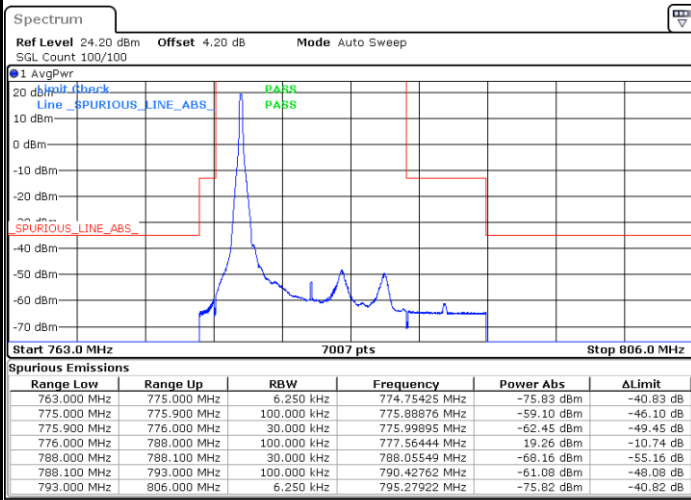


Date: 29.NOV.2022 10:00:51



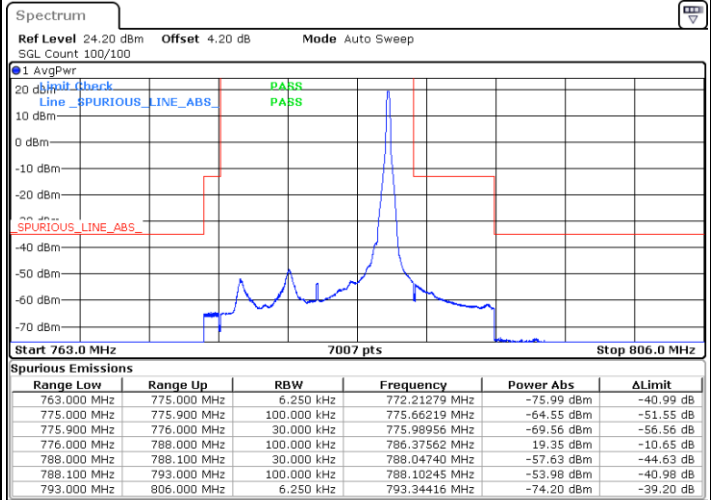
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



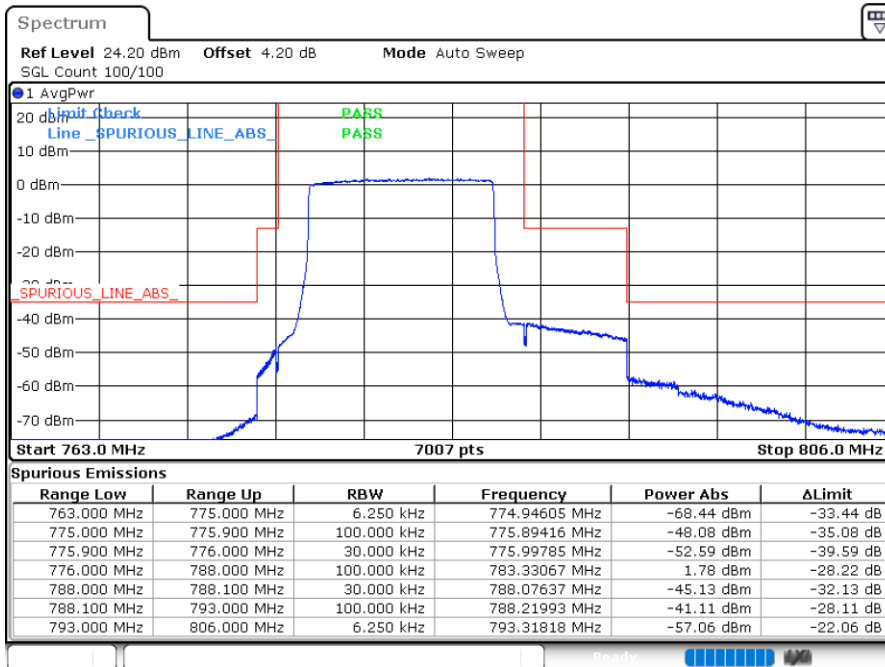
Date: 29.NOV.2022 09:55:22

middle Band Edge / 1 RB



Date: 29.NOV.2022 10:09:58

middle Band Edge / Full RB

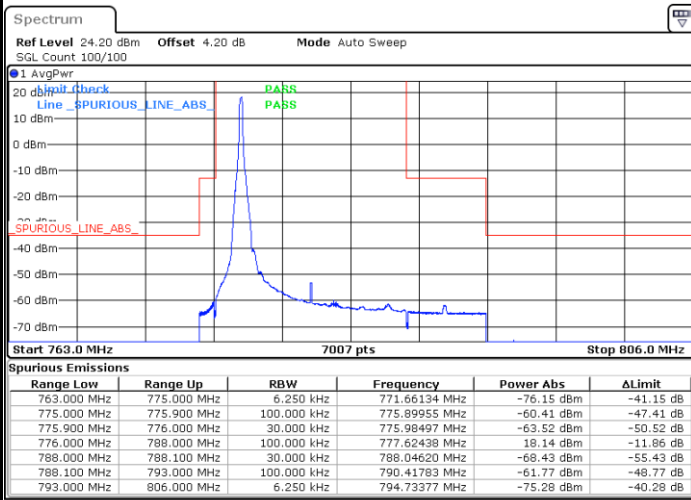


Date: 29.NOV.2022 10:02:40



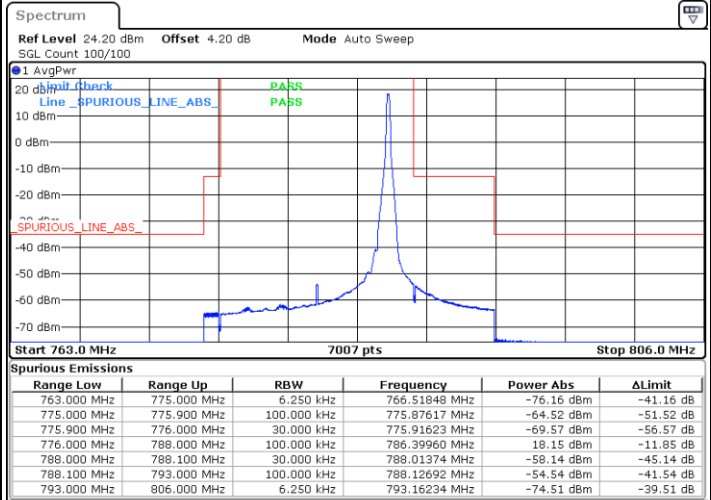
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



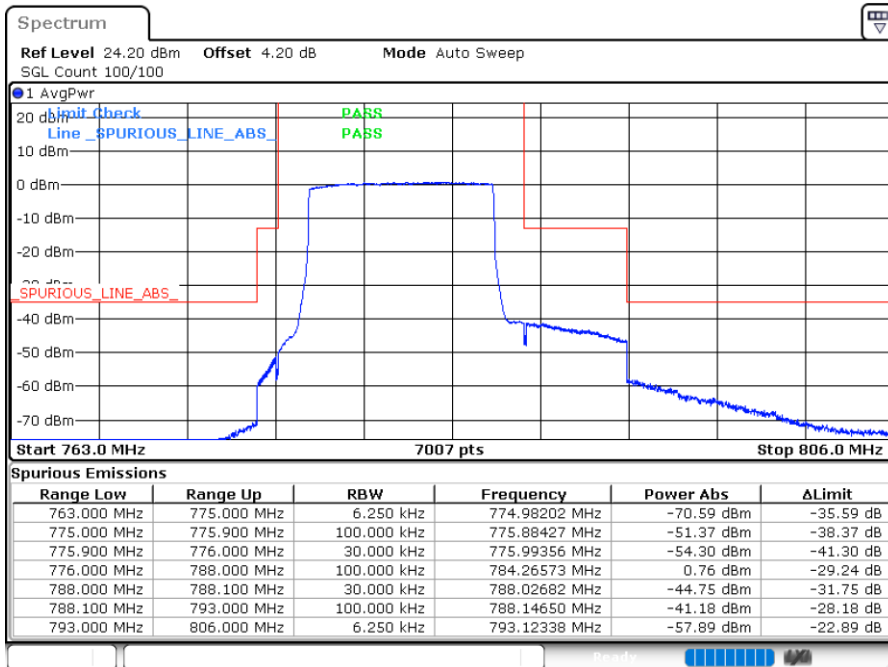
Date: 29.NOV.2022 09:57:12

middle Band Edge / 1 RB



Date: 29.NOV.2022 10:11:48

middle Band Edge / Full RB



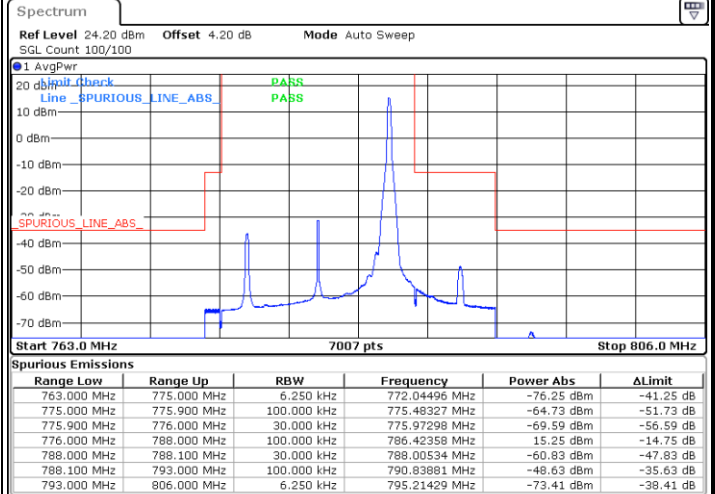
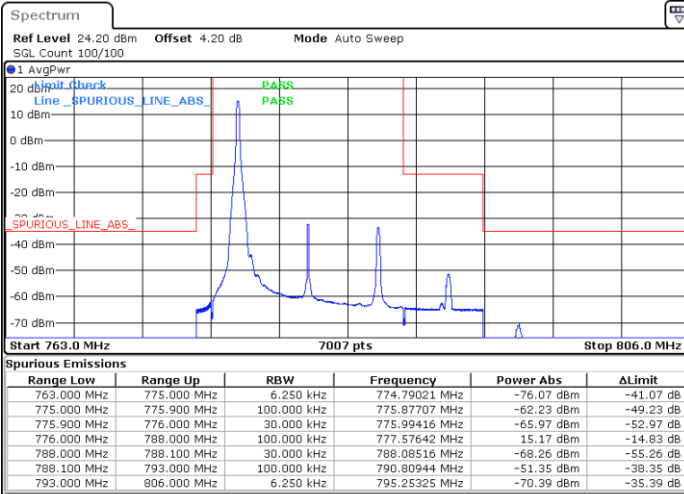
Date: 29.NOV.2022 10:04:30



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

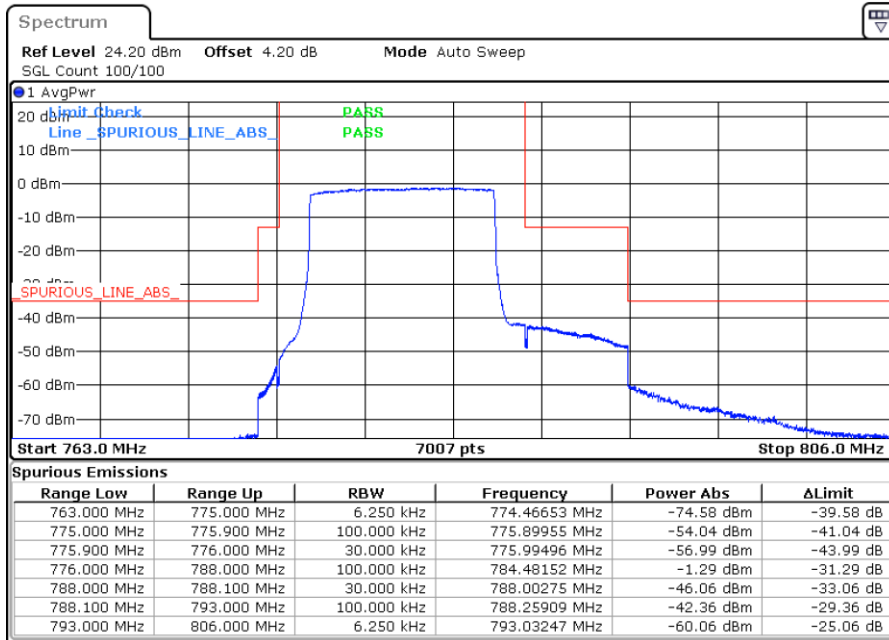
middle Band Edge / 1 RB



Date: 29.NOV.2022 09:59:01

Date: 29.NOV.2022 10:13:38

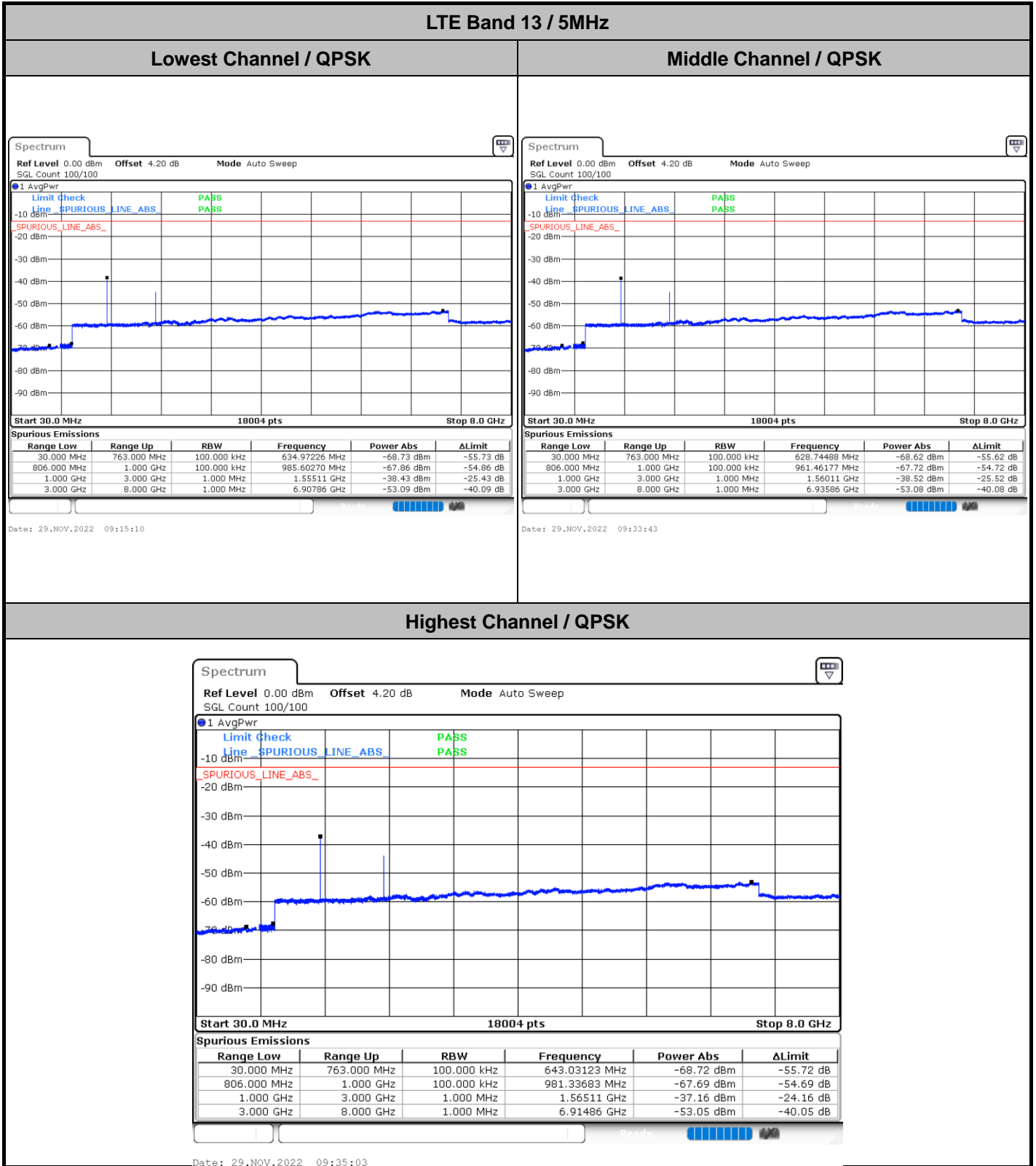
middle Band Edge / Full RB



Date: 29.NOV.2022 10:06:19



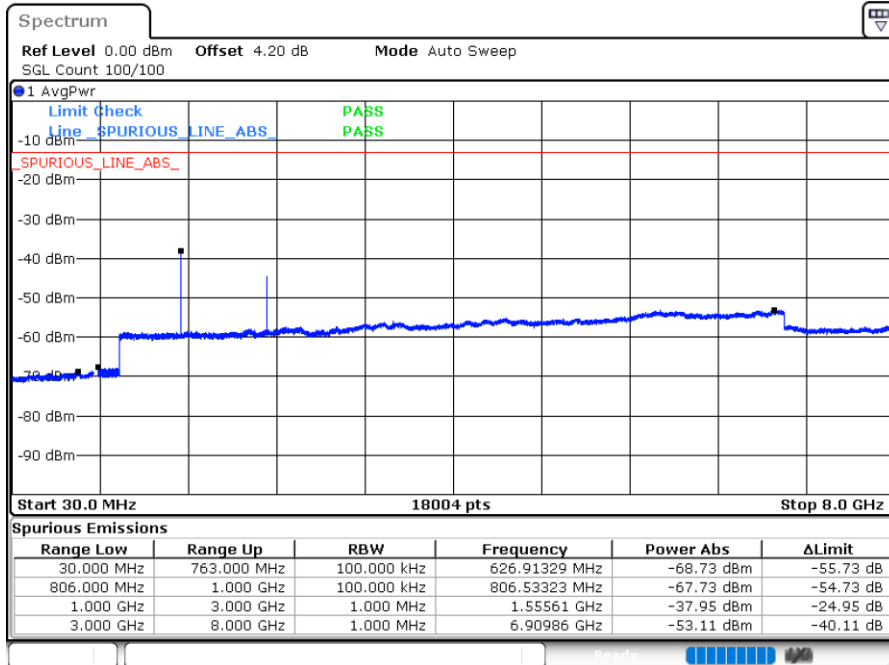
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 29.NOV.2022 09:51:43



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0245	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0252	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0211	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0264	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0026	

Note:

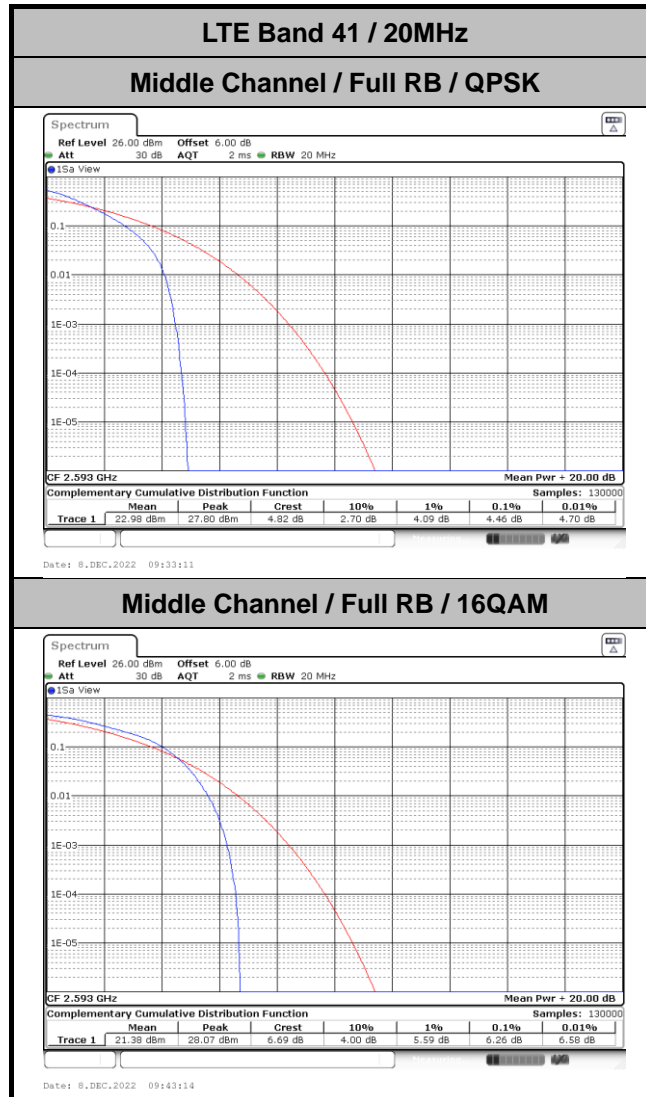
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.51 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

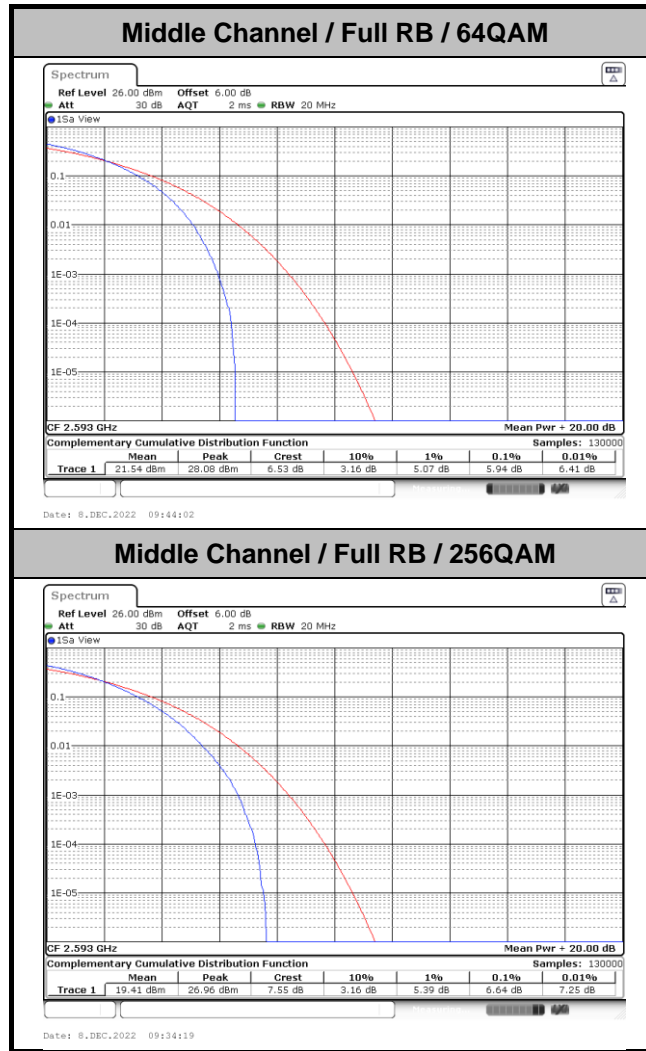


LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.46	6.26	5.94	6.64	PASS

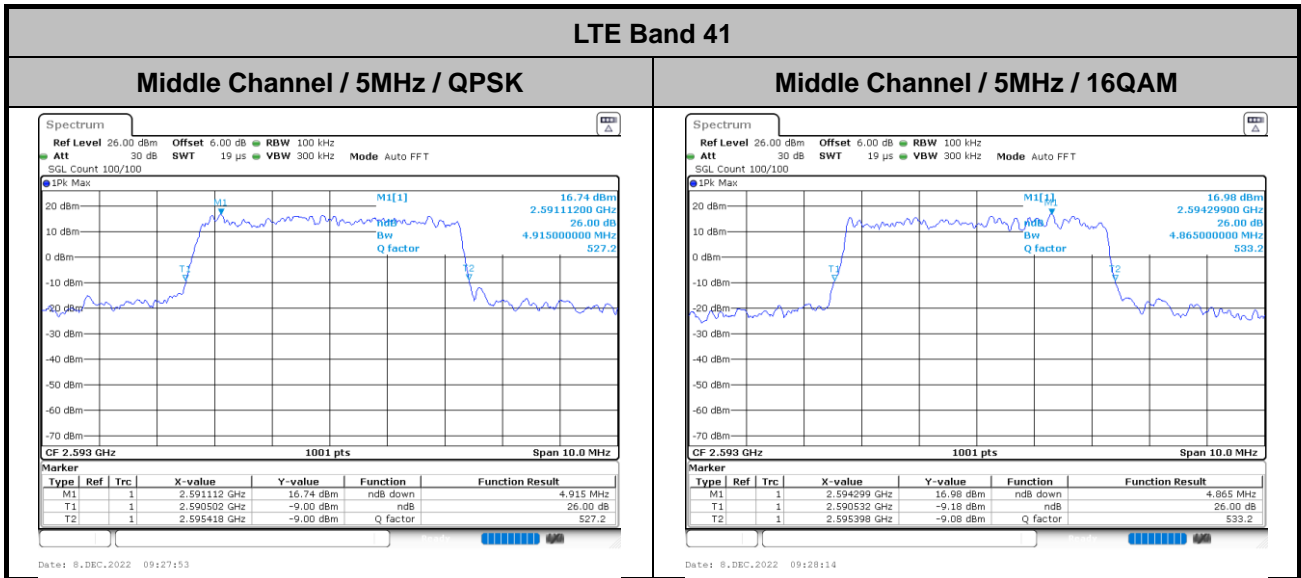






26dB Bandwidth

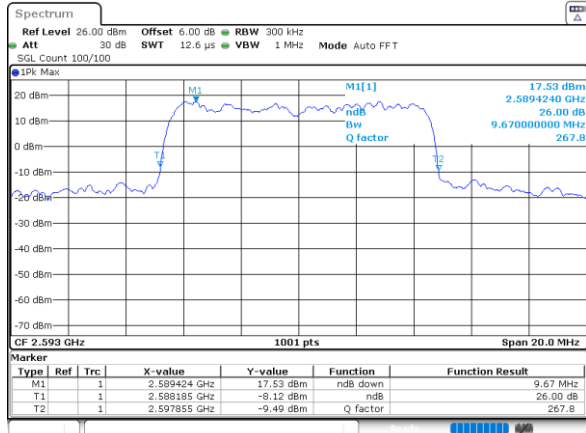
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.92	4.87
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.67	9.81
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.18	14.36
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.78	19.18





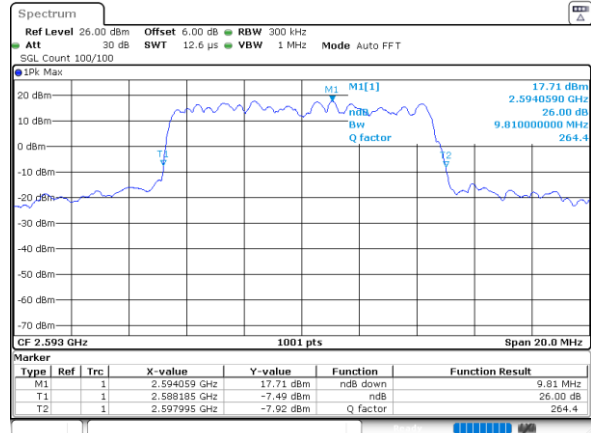
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 8,DEC,2022 09:29:18

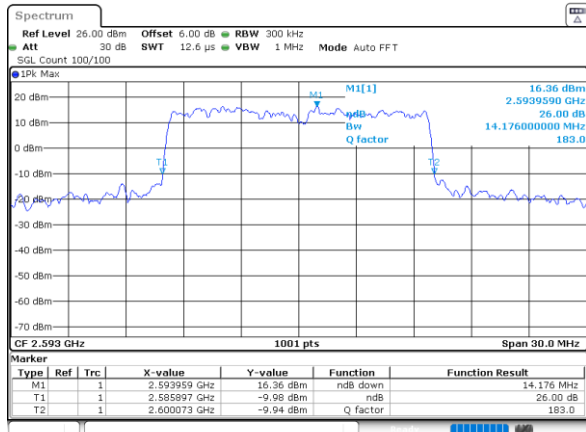
Middle Channel / 10MHz / 16QAM



Date: 8,DEC,2022 09:29:39

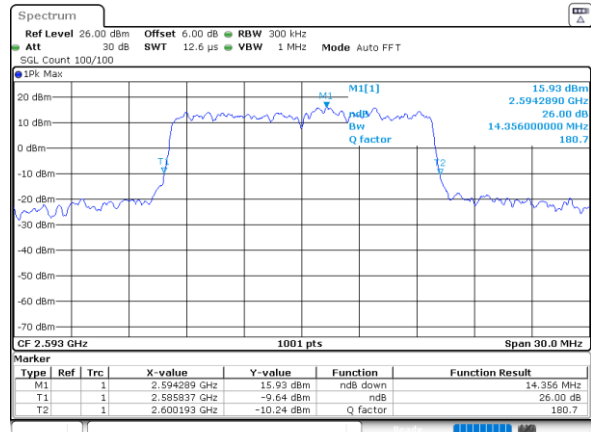
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 8,DEC,2022 09:30:42

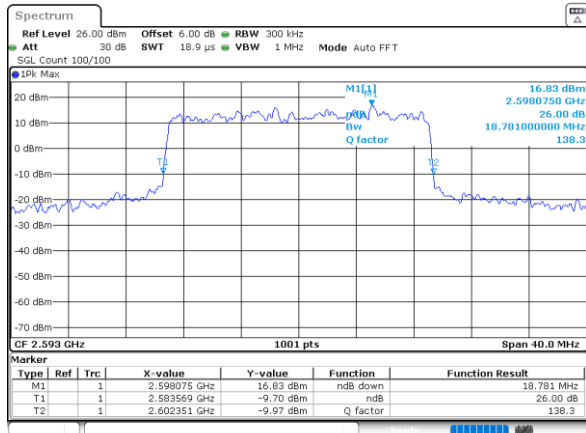
Middle Channel / 15MHz / 16QAM



Date: 8,DEC,2022 09:31:03

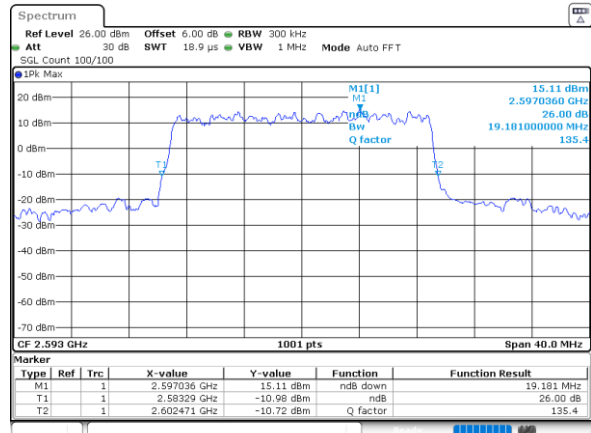
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 8,DEC,2022 09:32:07

Middle Channel / 20MHz / 16QAM

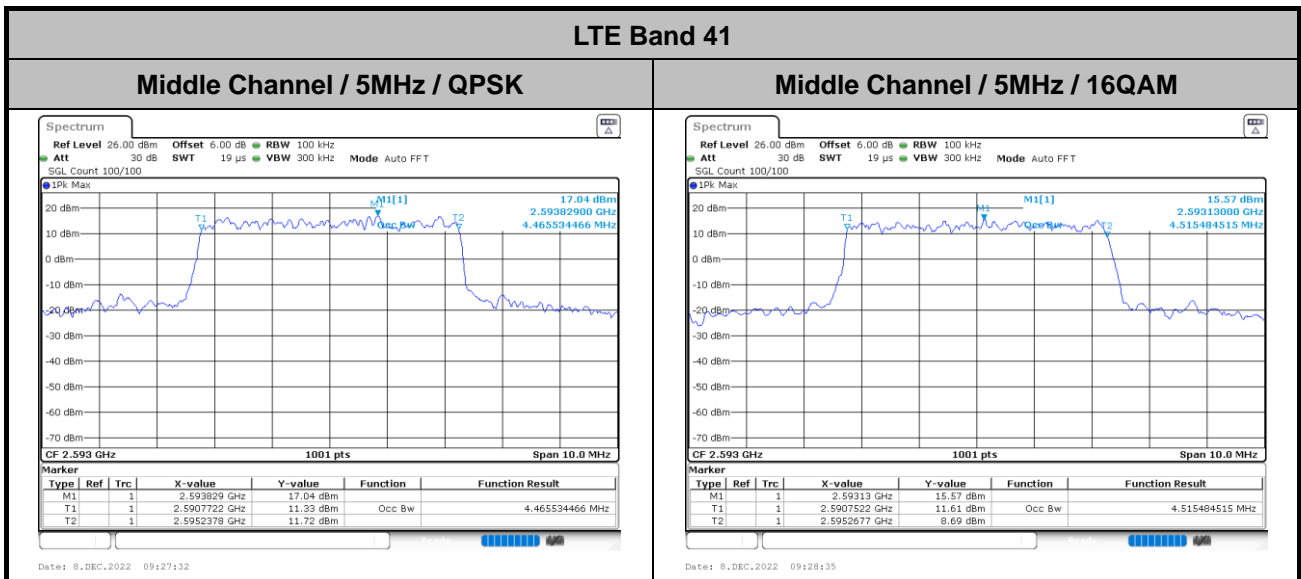


Date: 8,DEC,2022 09:32:28



Occupied Bandwidth

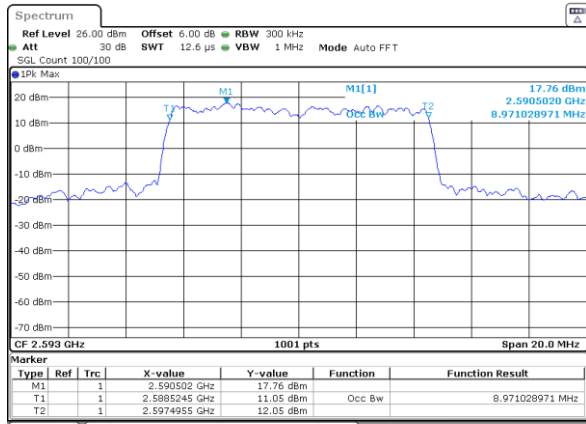
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.47	4.52
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.97	8.99
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.40	13.49
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.74	17.82





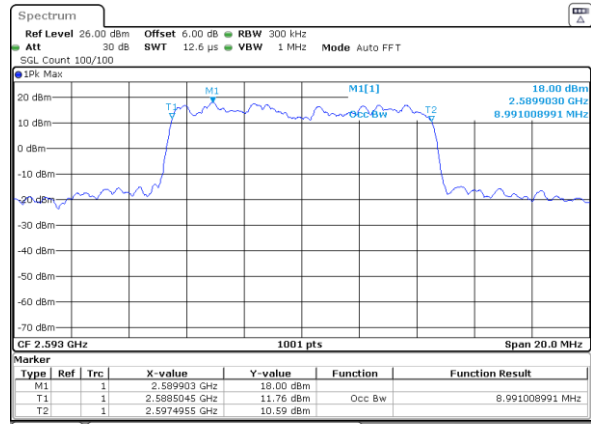
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 8,DEC,2022 09:28:57

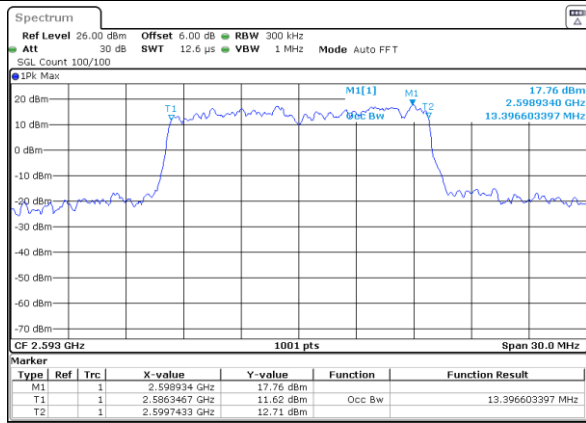
Middle Channel / 10MHz / 16QAM



Date: 8,DEC,2022 09:30:00

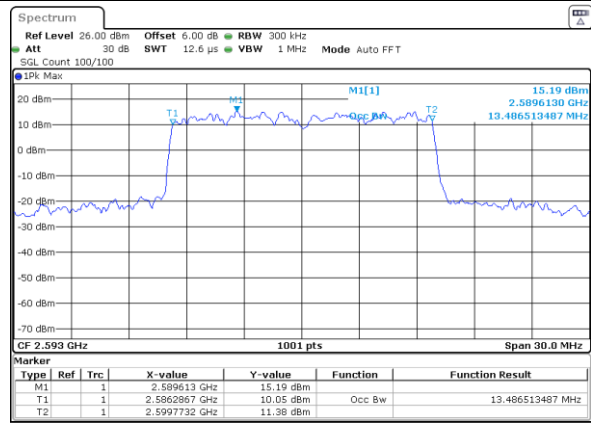
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 8,DEC,2022 09:30:21

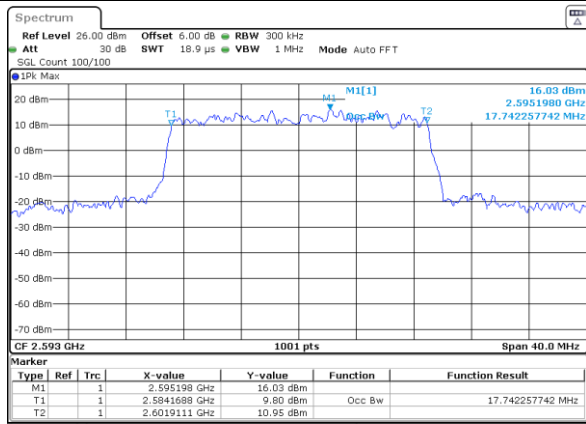
Middle Channel / 15MHz / 16QAM



Date: 8,DEC,2022 09:31:24

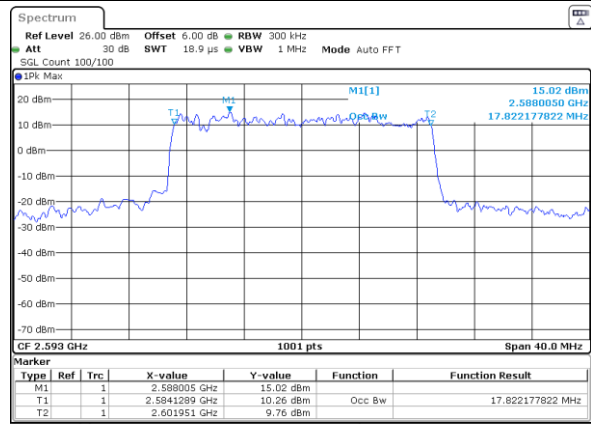
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 8,DEC,2022 09:31:46

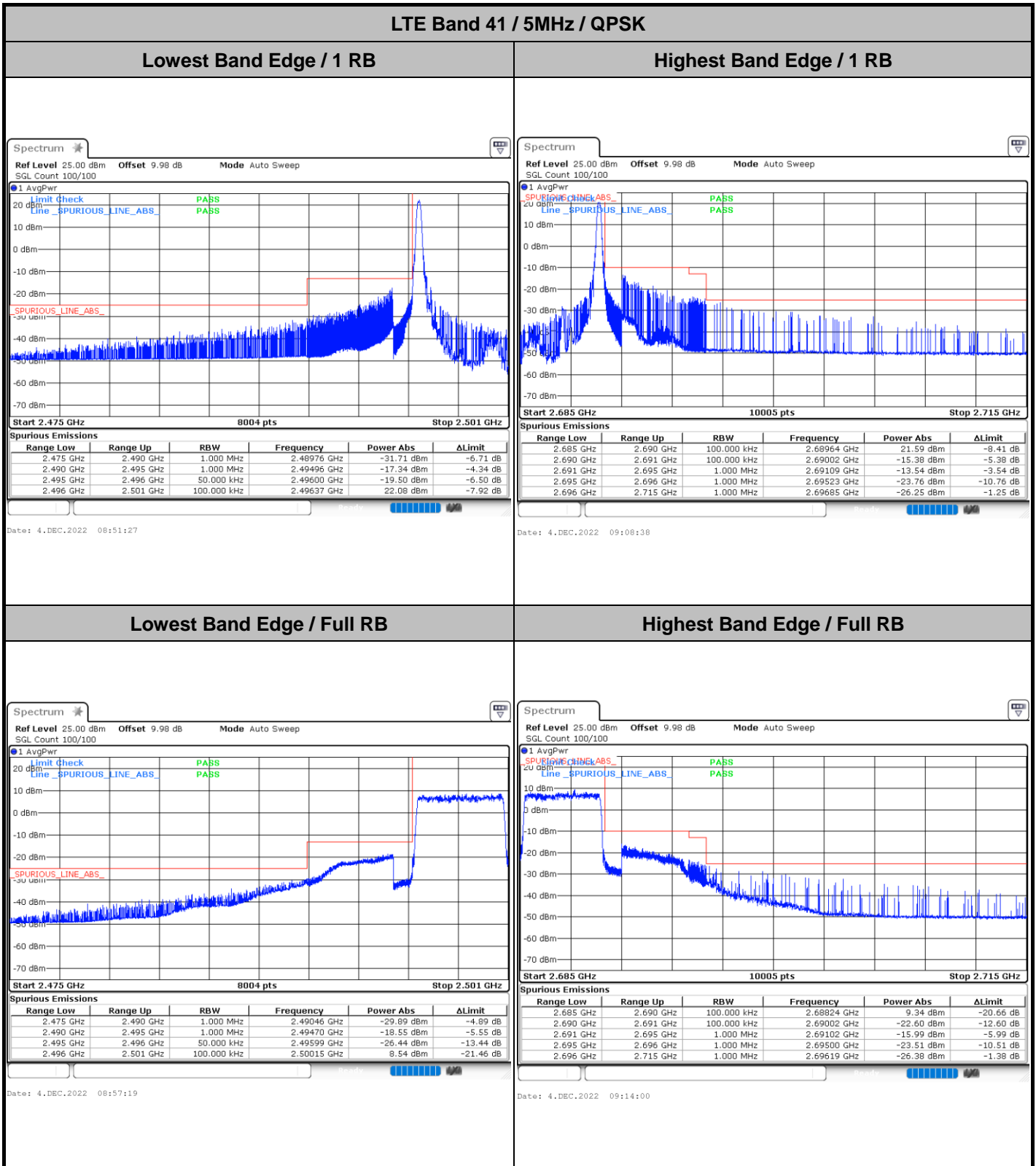
Middle Channel / 20MHz / 16QAM



Date: 8,DEC,2022 09:32:49



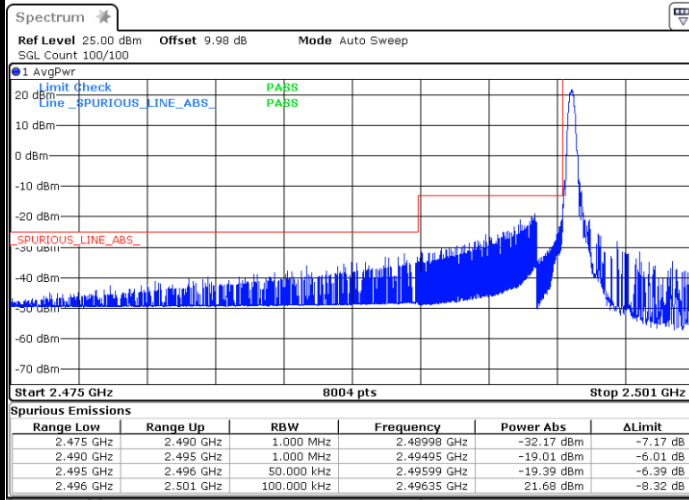
Conducted Band Edge





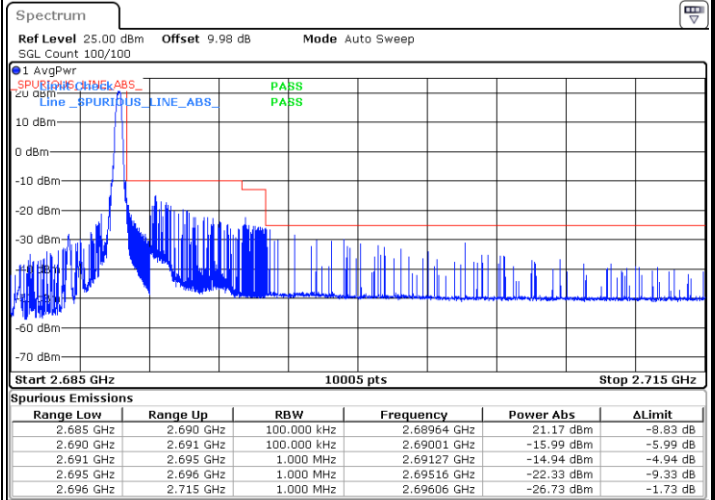
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



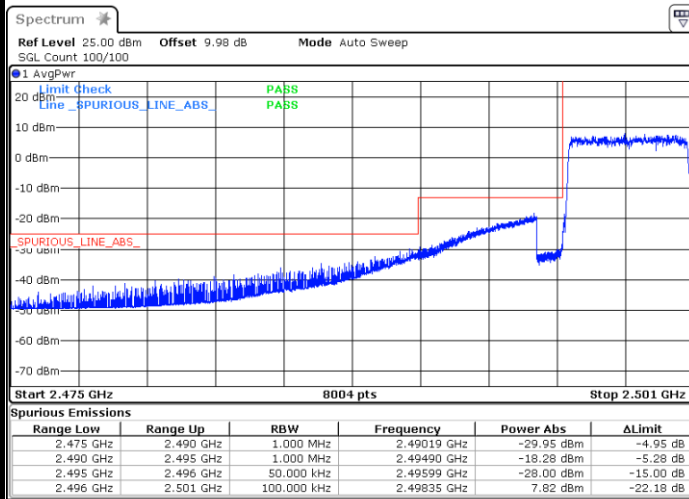
Date: 4. DEC. 2022 08:52:48

Highest Band Edge / 1 RB



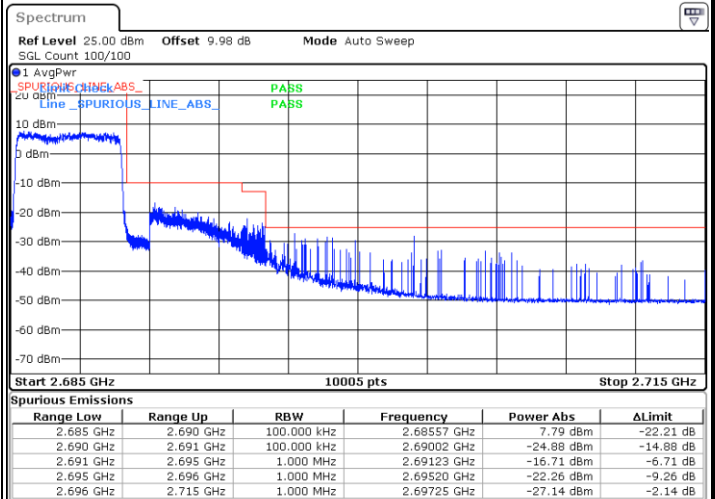
Date: 4. DEC. 2022 09:09:58

Lowest Band Edge / Full RB



Date: 4. DEC. 2022 08:58:39

Highest Band Edge / Full RB

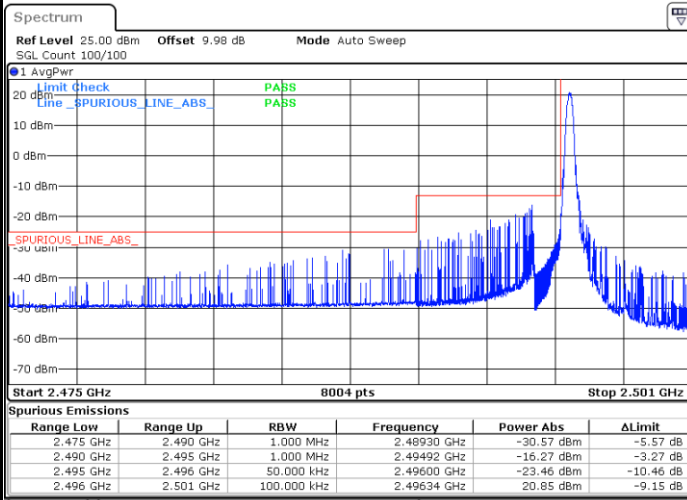


Date: 4. DEC. 2022 09:15:20



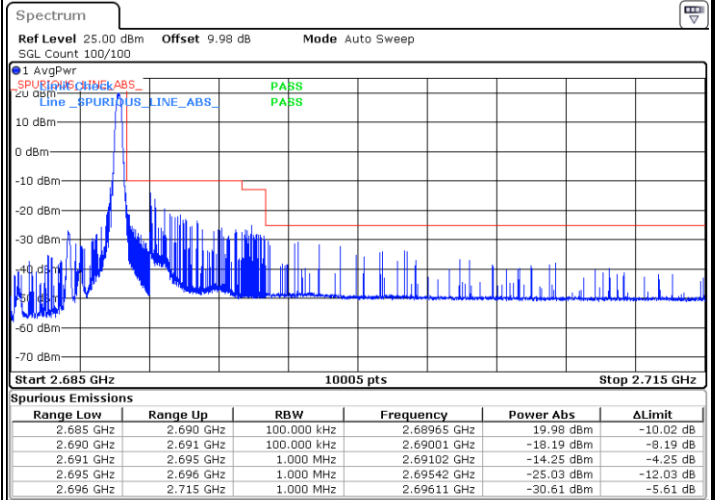
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



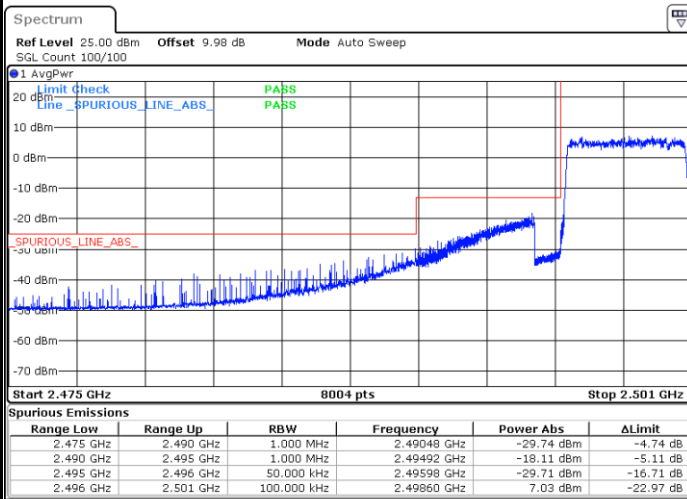
Date: 4.DEC.2022 08:54:08

Highest Band Edge / 1 RB



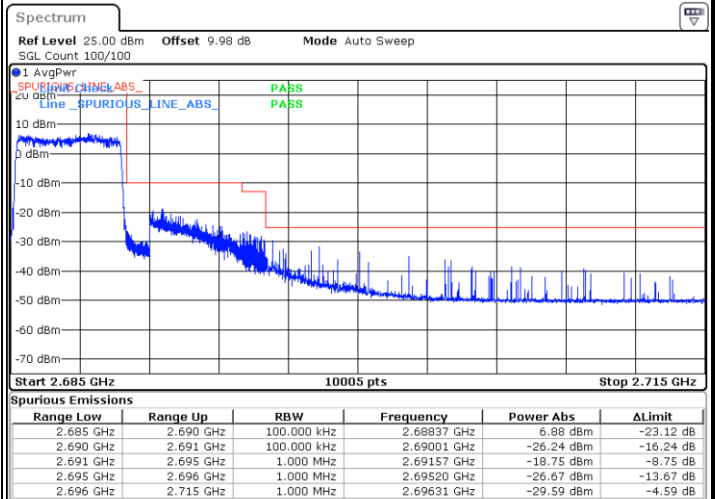
Date: 4.DEC.2022 09:11:18

Lowest Band Edge / Full RB



Date: 4.DEC.2022 09:00:00

Highest Band Edge / Full RB

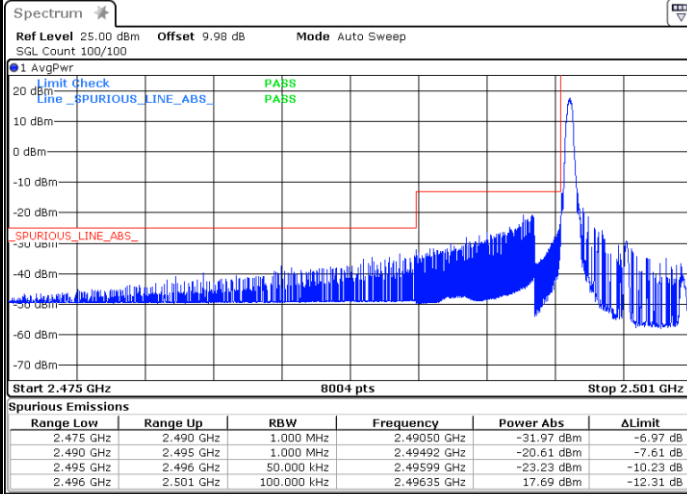


Date: 4.DEC.2022 09:16:40

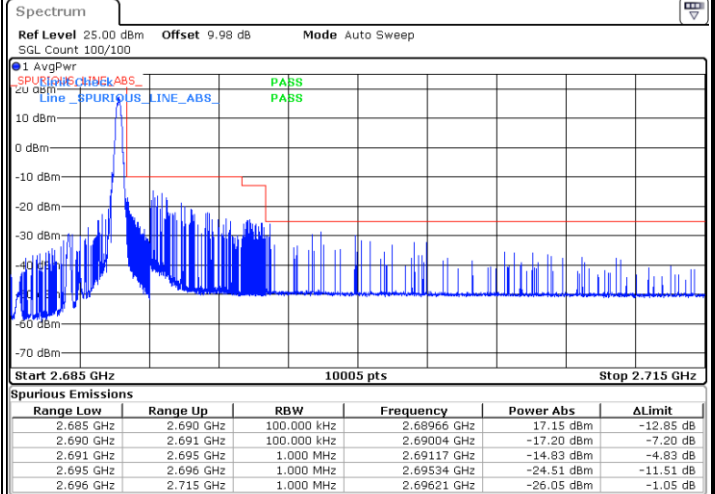


LTE Band 41 / 5MHz / 256QAM

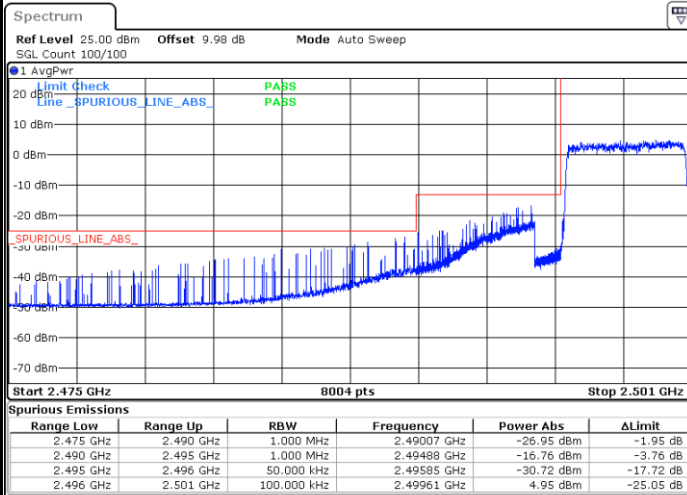
Lowest Band Edge / 1RB



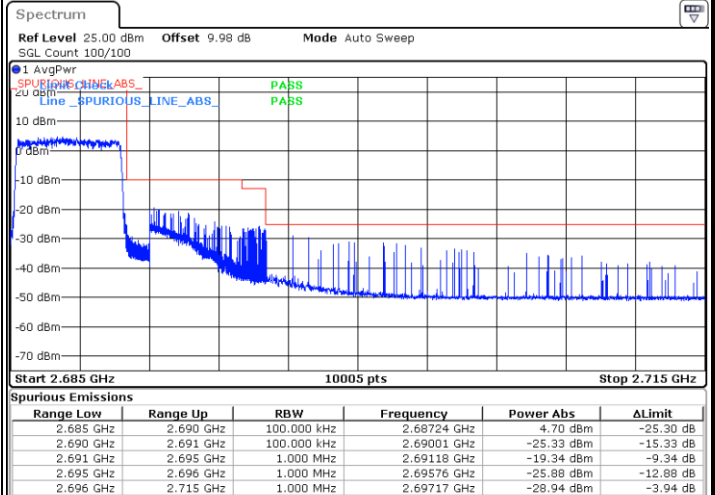
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



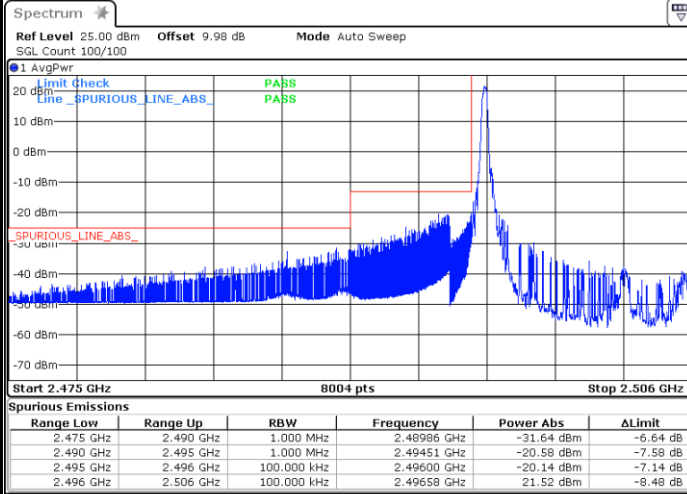
Highest Band Edge / Full RB





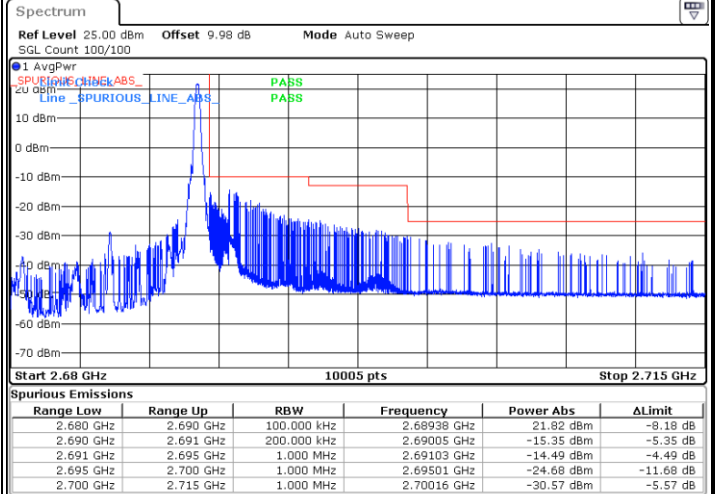
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



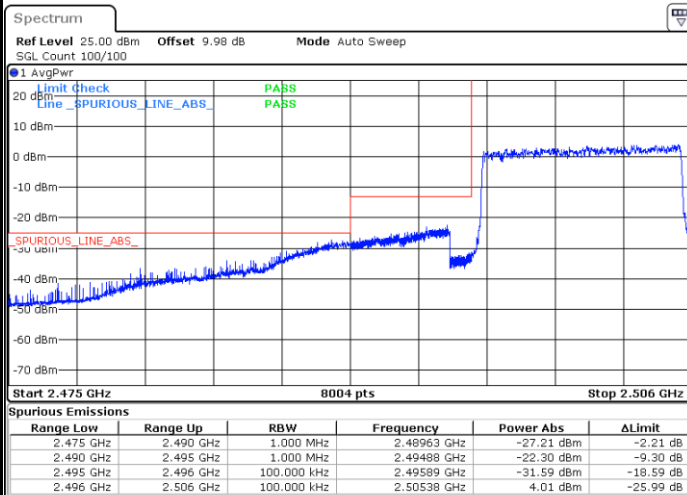
Date: 4. DEC. 2022 09:21:58

Highest Band Edge / 1 RB



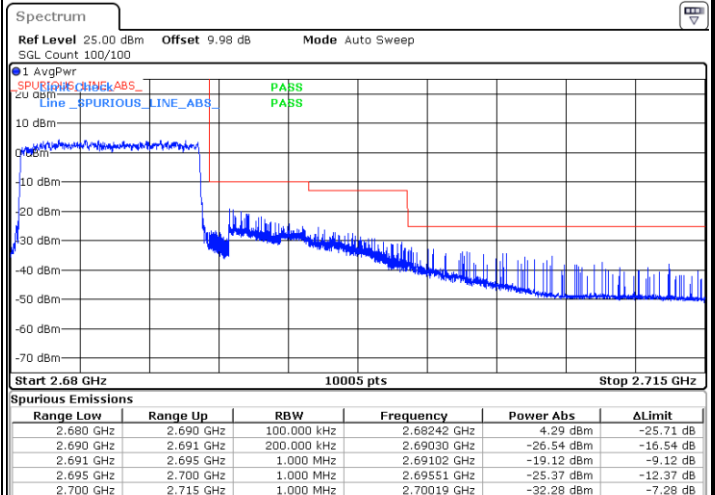
Date: 4. DEC. 2022 09:36:35

Lowest Band Edge / Full RB



Date: 4. DEC. 2022 09:27:22

Highest Band Edge / Full RB



Date: 4. DEC. 2022 09:41:58