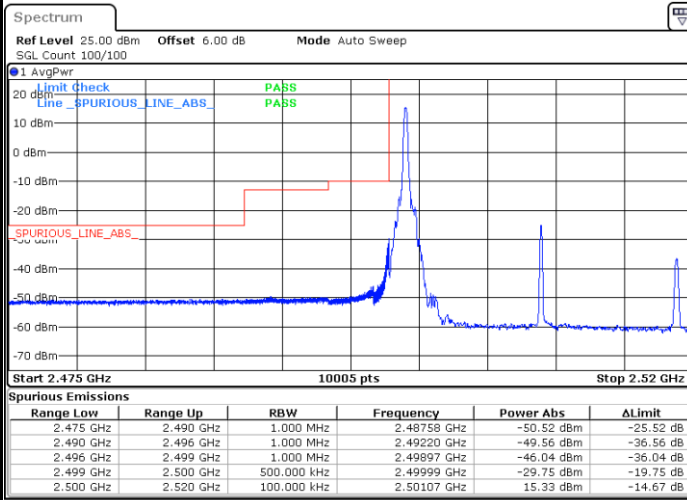


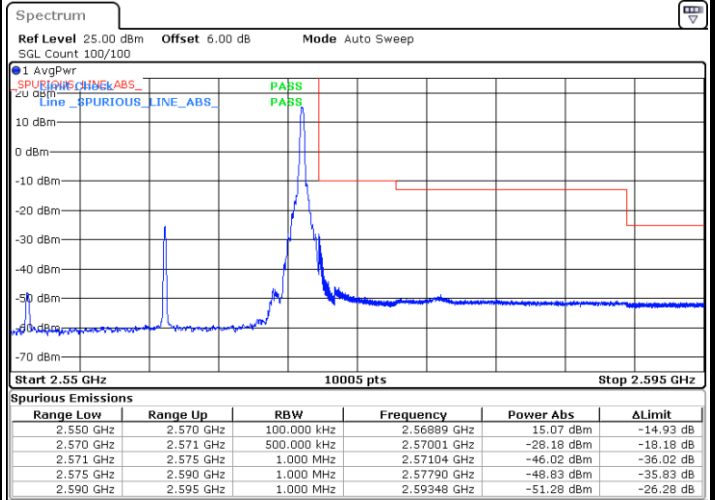


LTE Band 7 / 20MHz / 256QAM

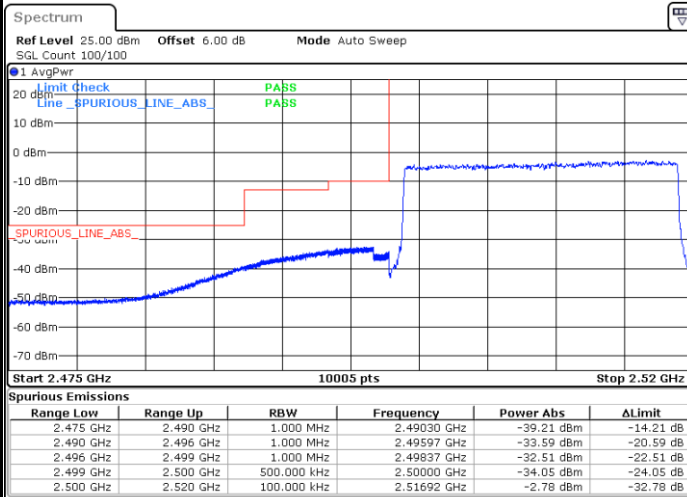
Lowest Band Edge / 1 RB



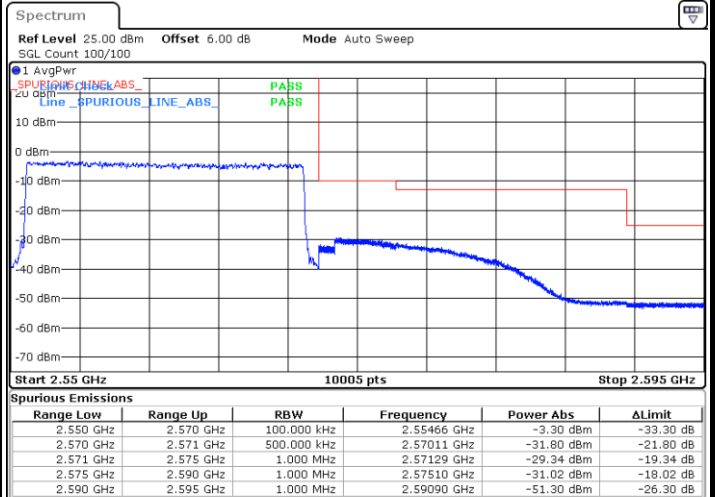
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

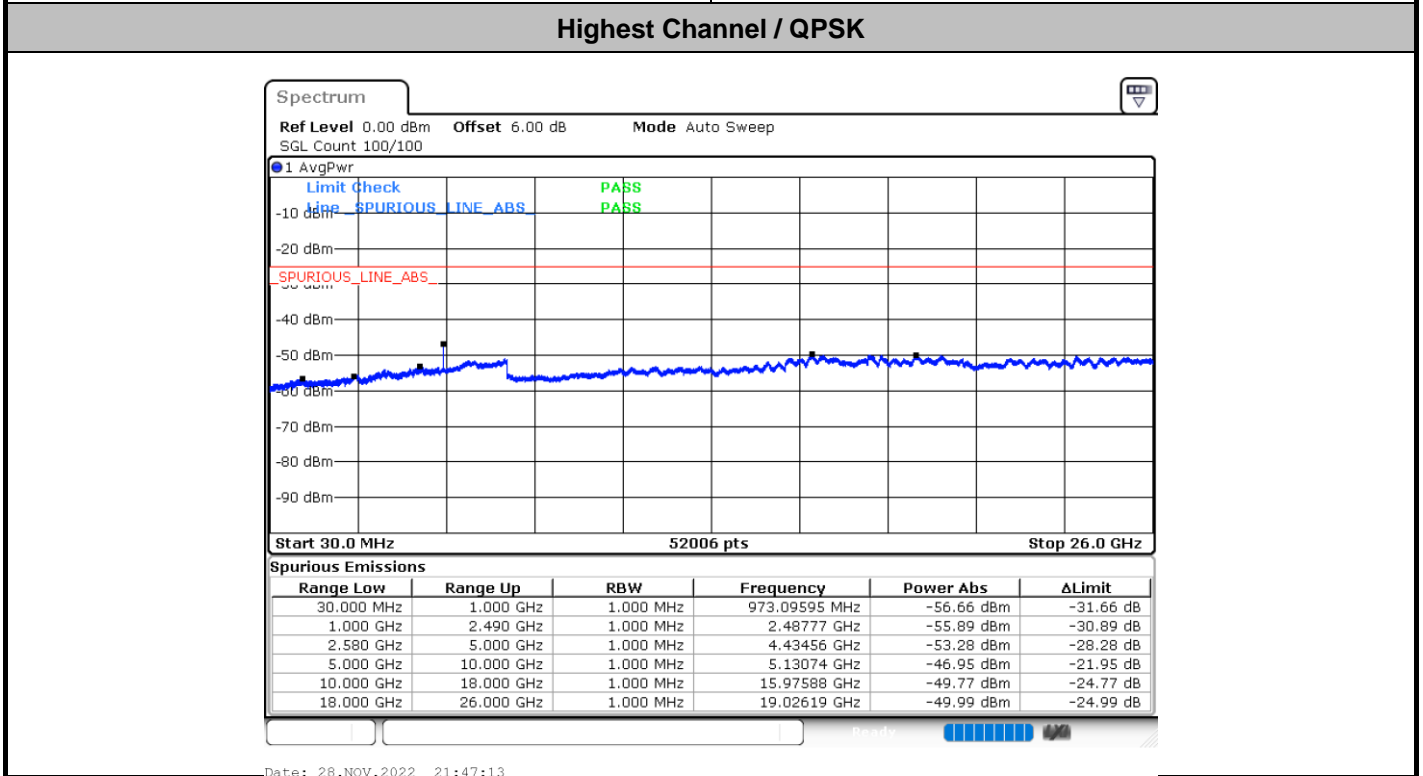
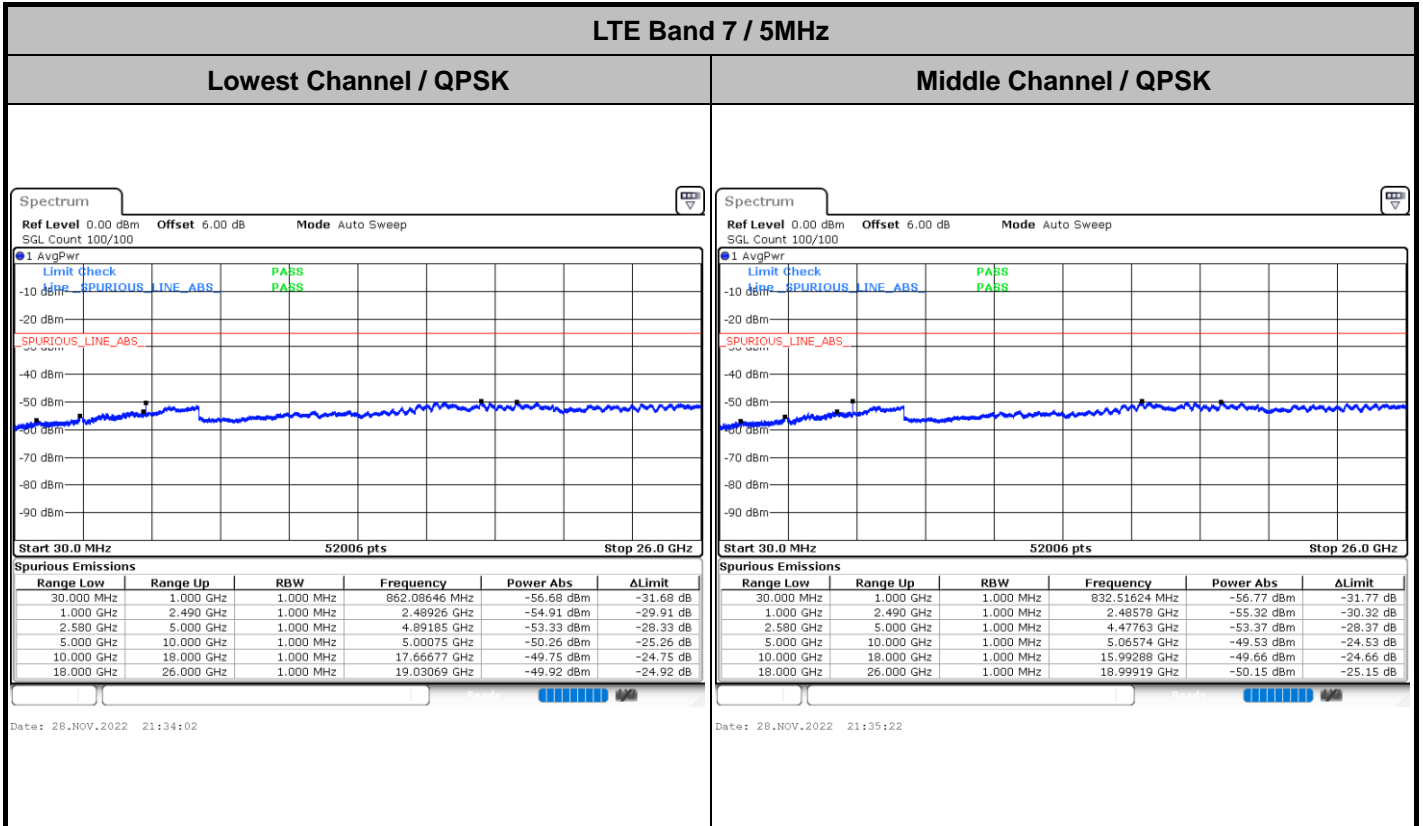


Highest Band Edge / Full RB





Conducted Spurious Emission

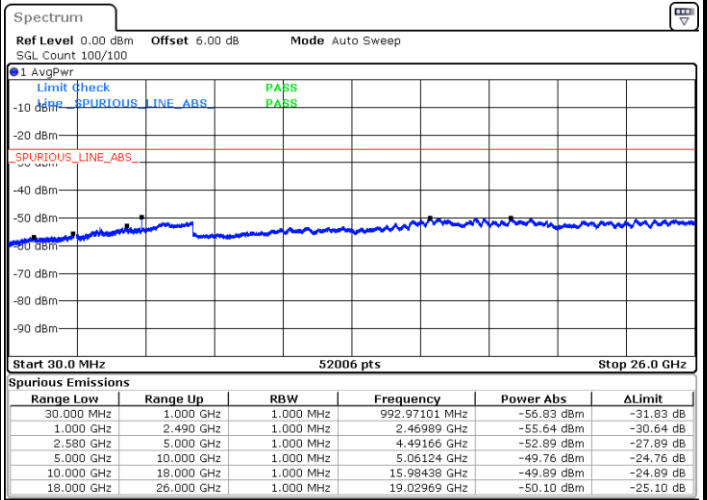
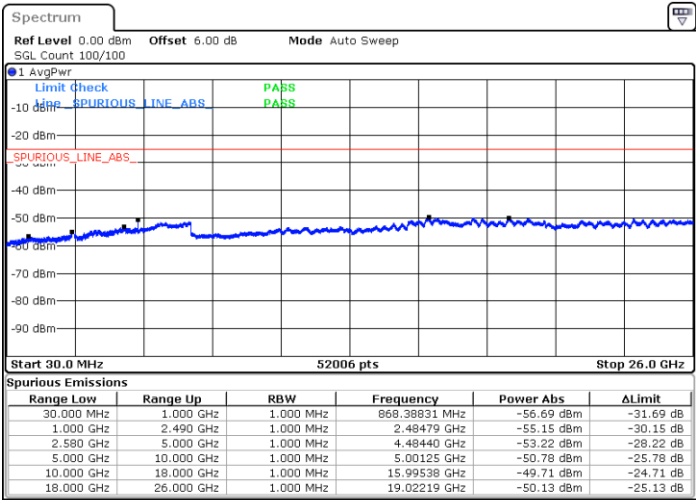




LTE Band 7 / 10MHz

Lowest Channel / QPSK

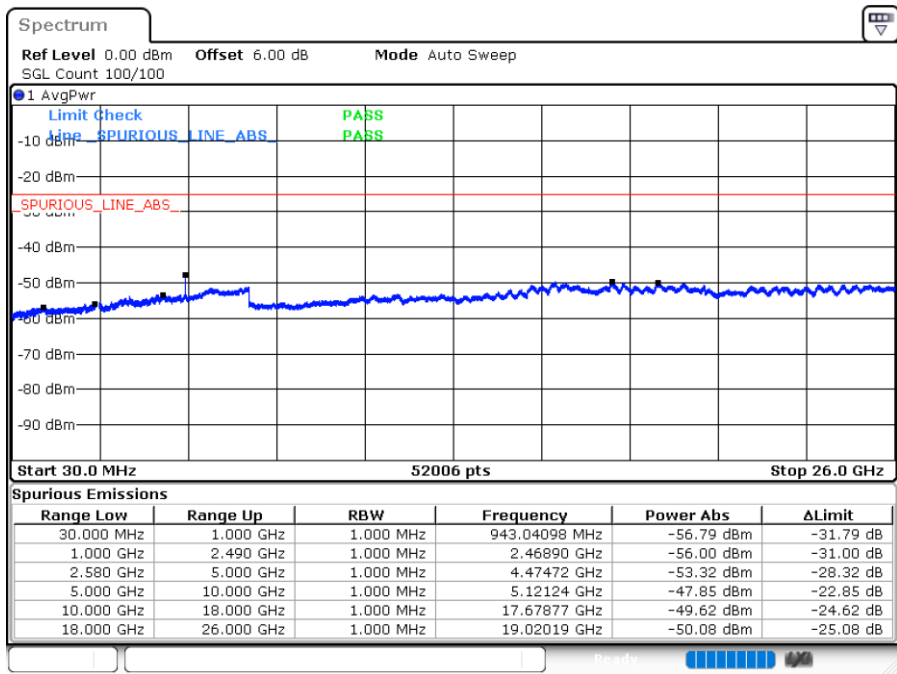
Middle Channel / QPSK



Date: 28.NOV.2022 22:11:25

Date: 28.NOV.2022 22:12:45

Highest Channel / QPSK

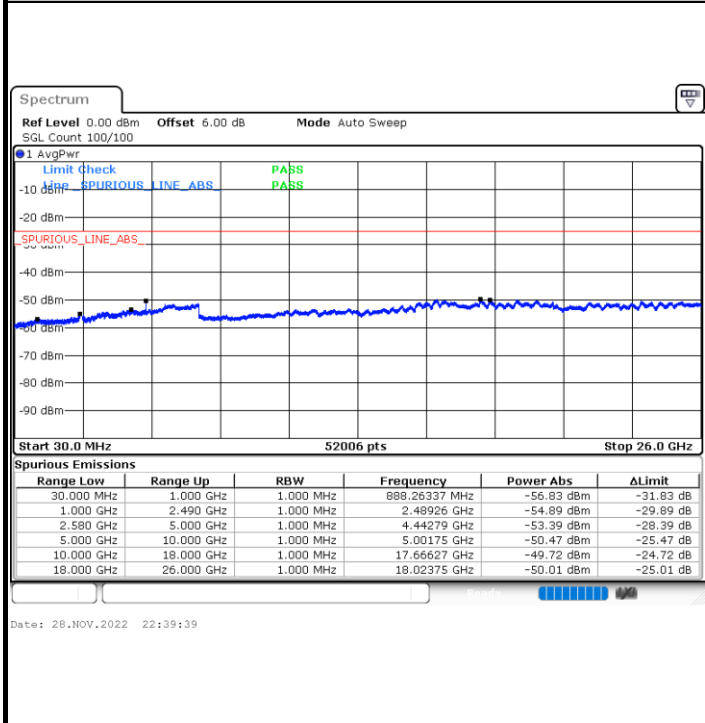


Date: 28.NOV.2022 22:14:06

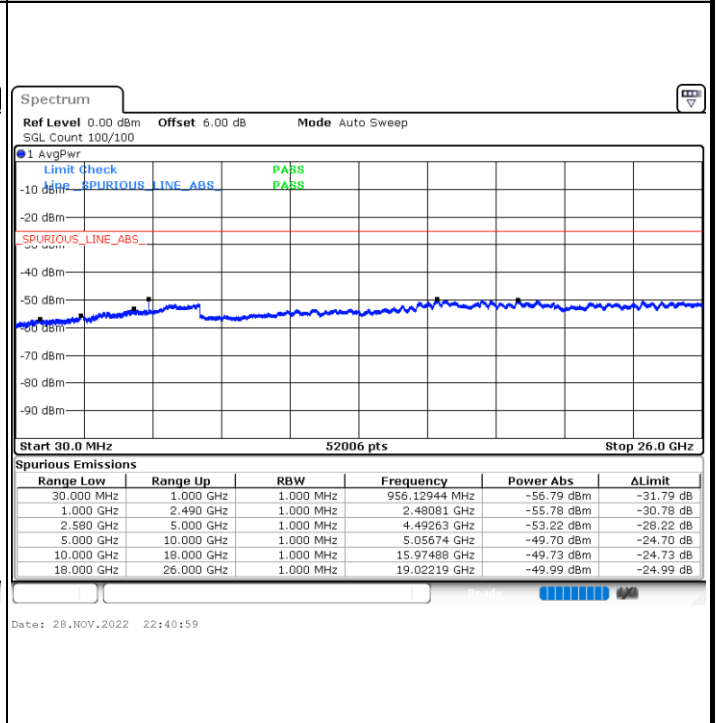


LTE Band 7 / 15MHz

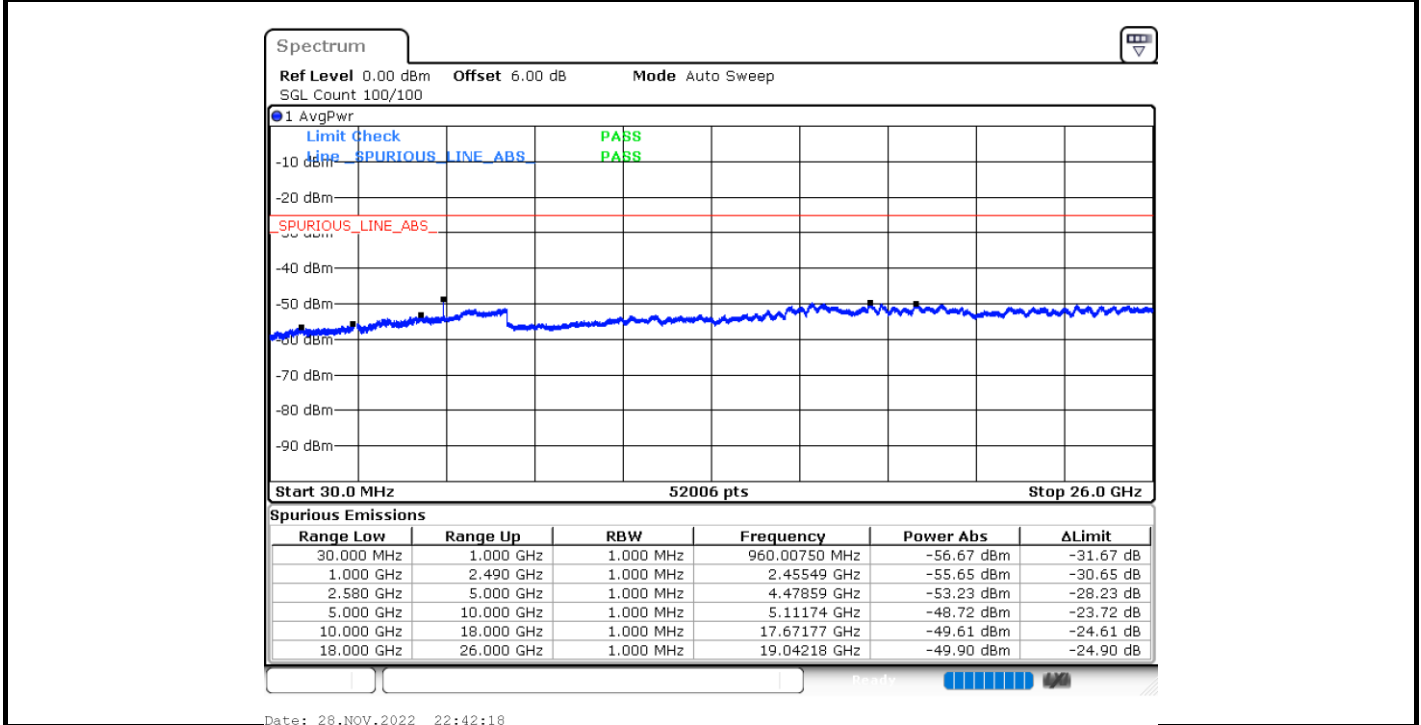
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

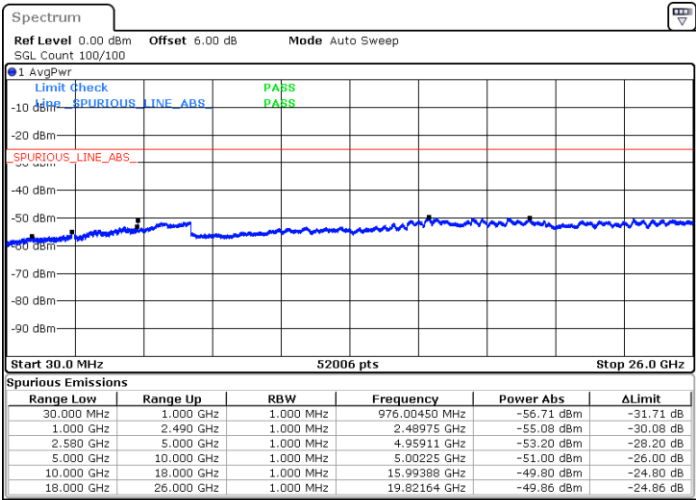




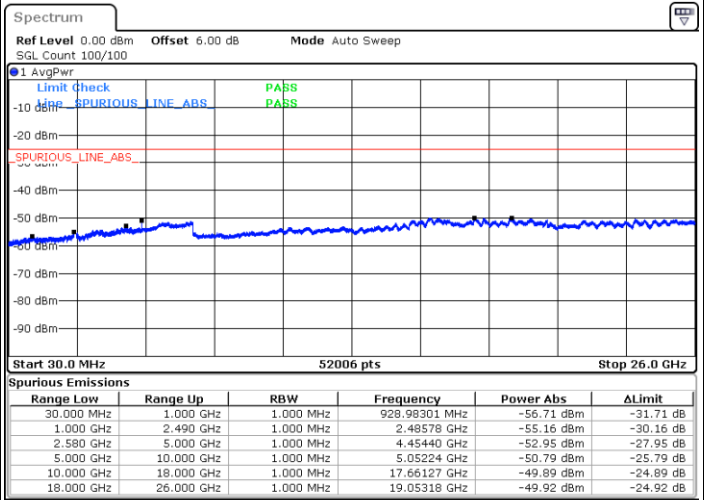
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

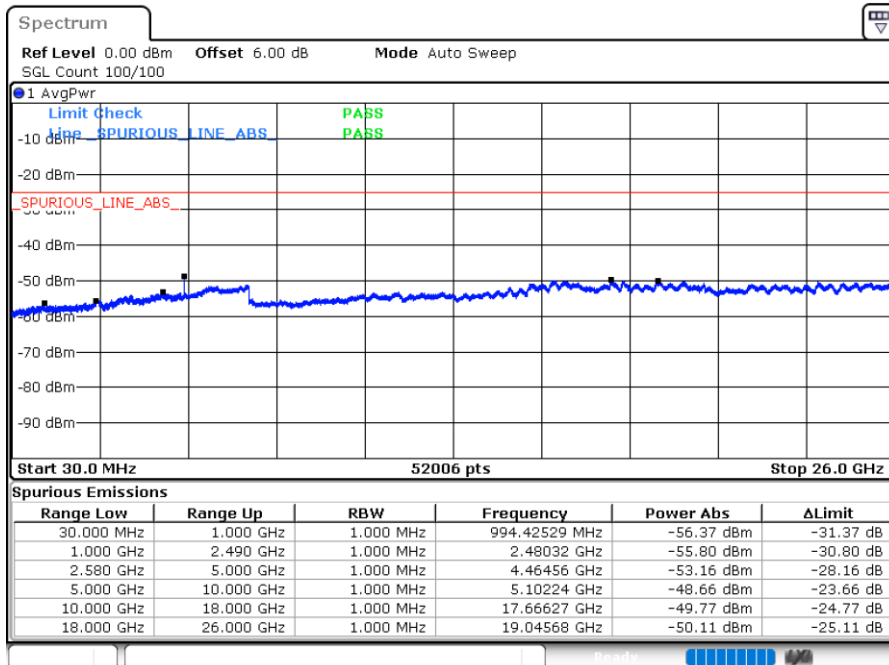


Date: 28.NOV.2022 23:04:24



Date: 28.NOV.2022 23:05:43

Highest Channel / QPSK



Date: 28.NOV.2022 23:07:04



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	0.0017	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

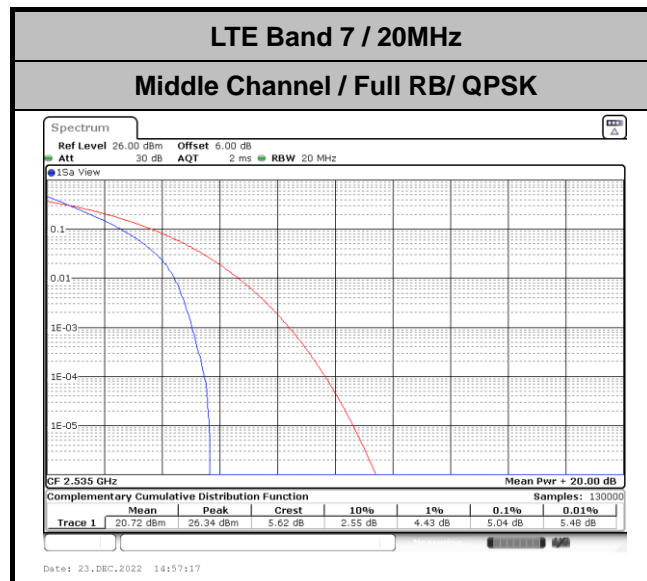
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.51 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

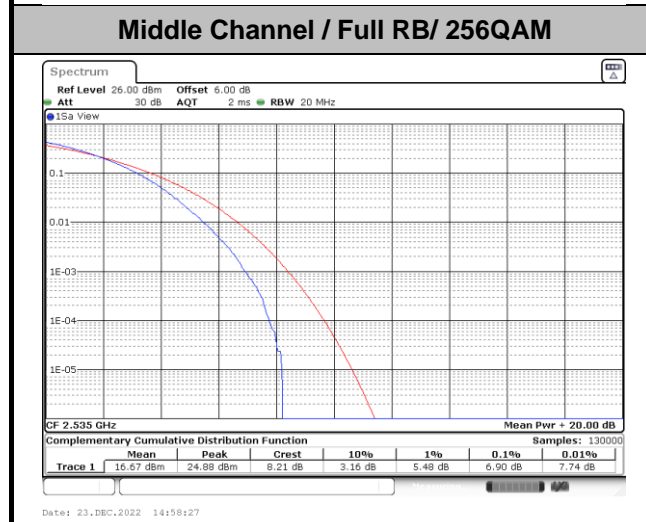
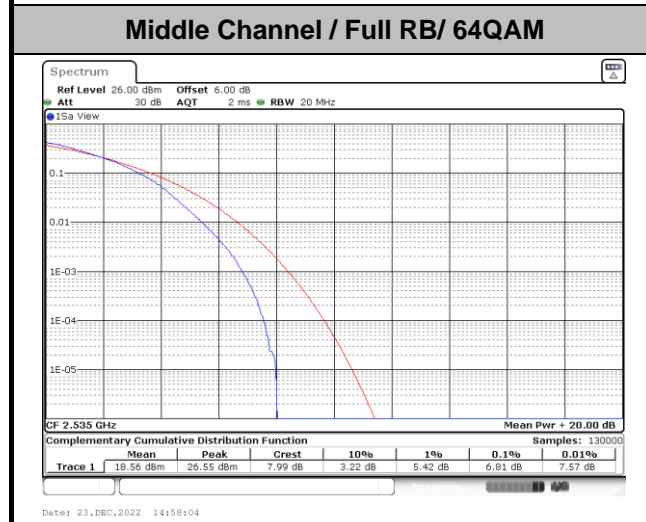
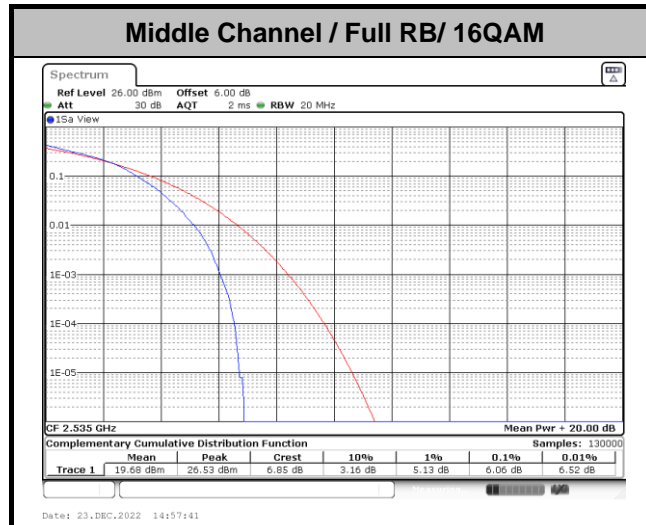


LTE Band 7 for other PA

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.04	6.06	6.81	PASS
Mode	LTE Band 7 / 20MHz			
Mod.	256QAM			Limit: 13dB
RB Size	Full RB			Result
Middle CH	6.90			PASS

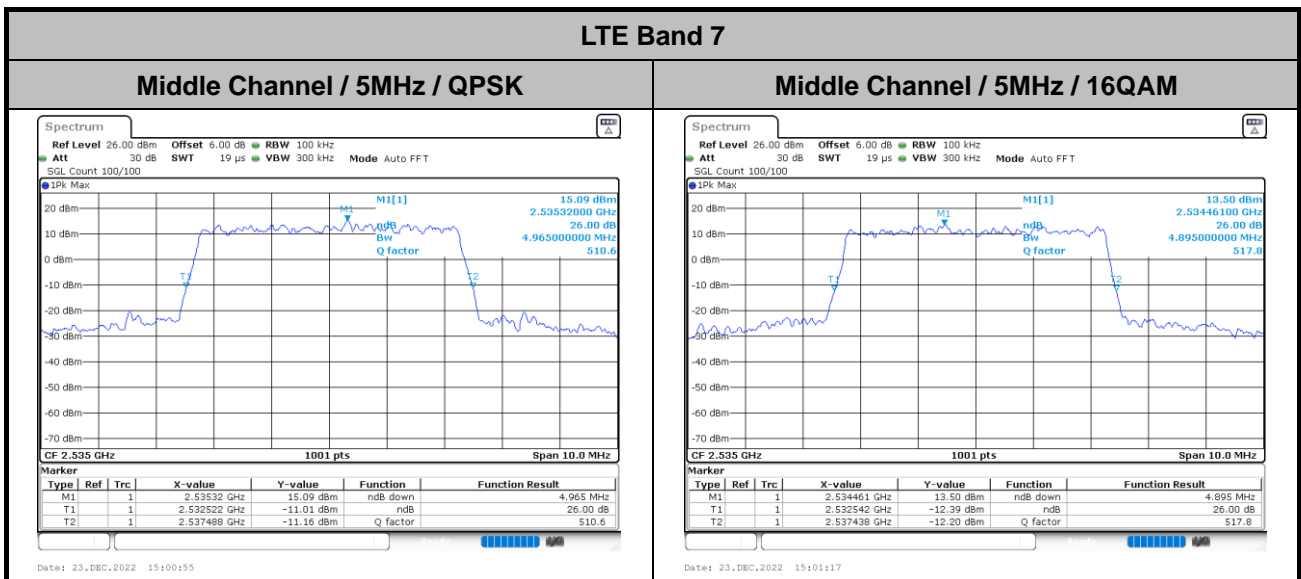






26dB Bandwidth

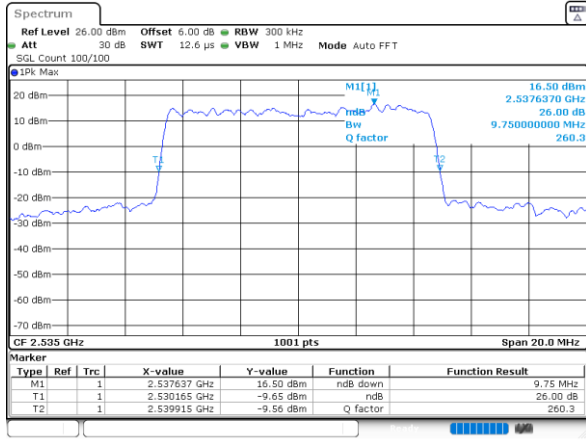
LTE Band 7 : 26dB BW(MHz)		
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.97	4.90
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.75	9.93
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.48	14.30
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.86	18.78





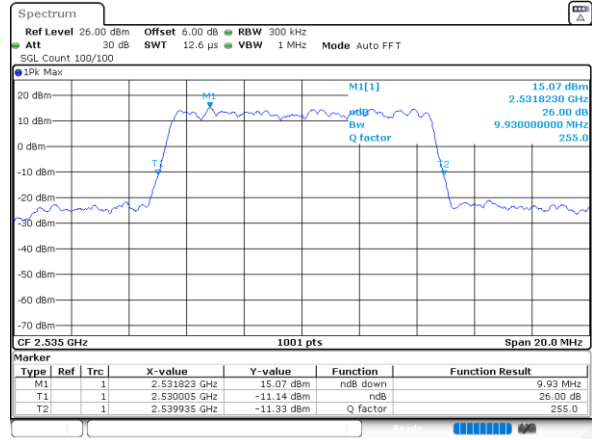
LTE Band 7

Middle Channel / 10MHz / QPSK



Date: 23, DEC, 2022 15:02:23

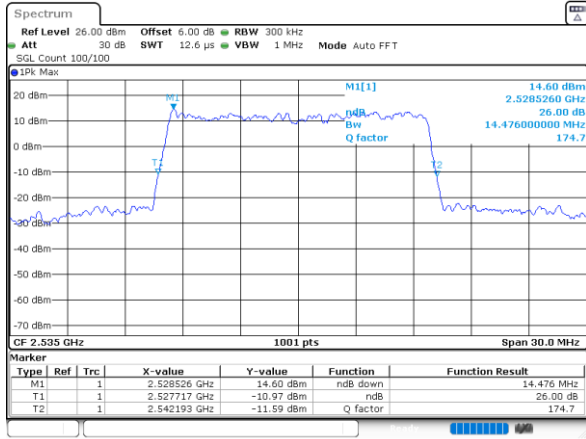
Middle Channel / 10MHz / 16QAM



Date: 23, DEC, 2022 15:02:45

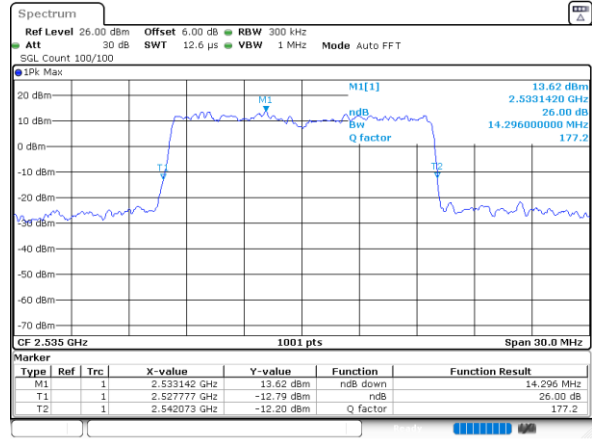
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 23, DEC, 2022 15:03:50

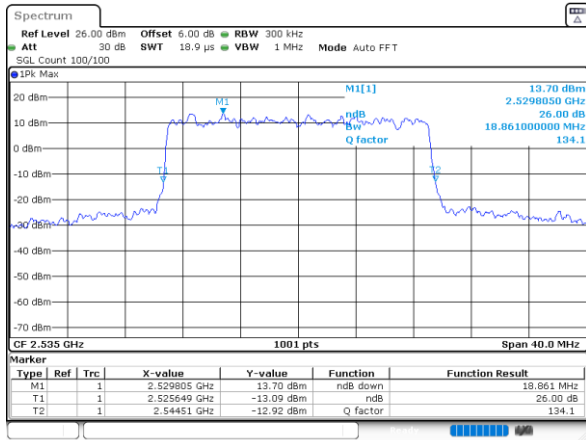
Middle Channel / 15MHz / 16QAM



Date: 23, DEC, 2022 15:04:12

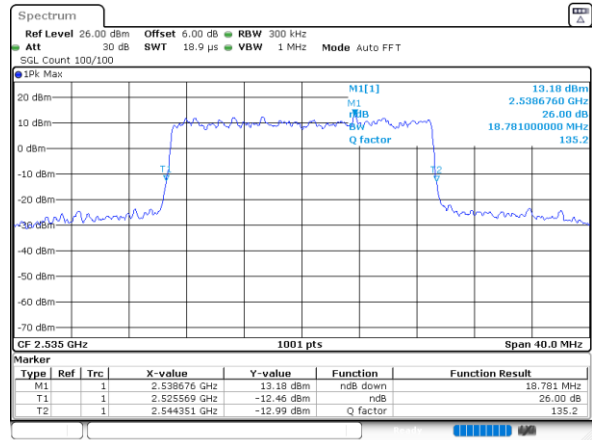
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 23, DEC, 2022 14:55:49

Middle Channel / 20MHz / 16QAM

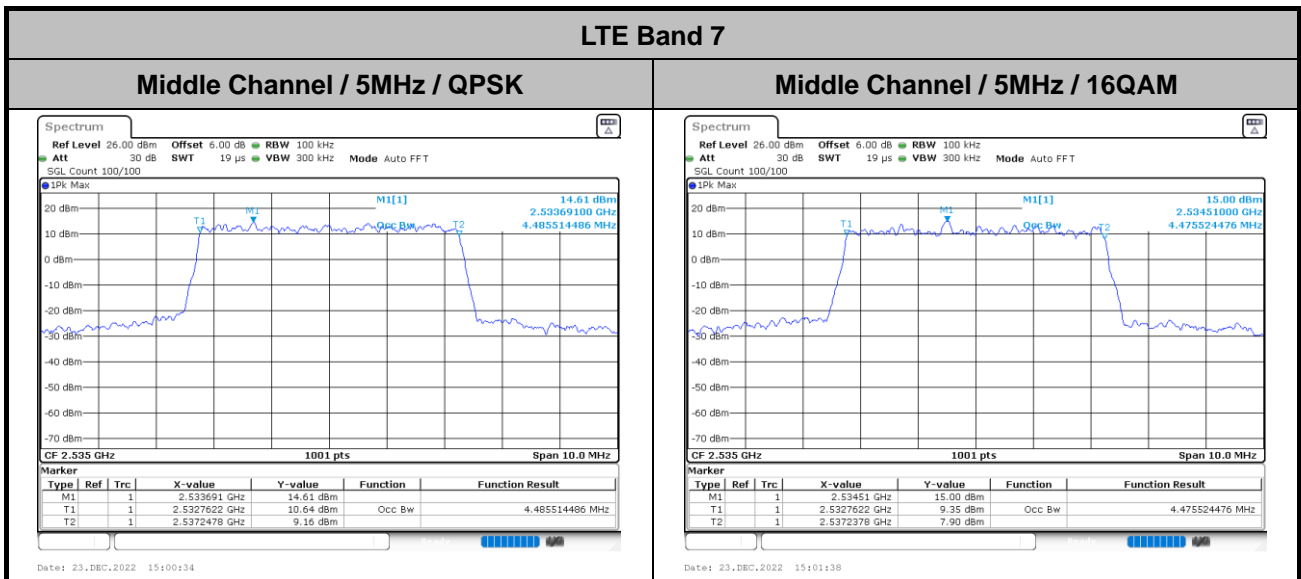


Date: 23, DEC, 2022 14:56:54



Occupied Bandwidth

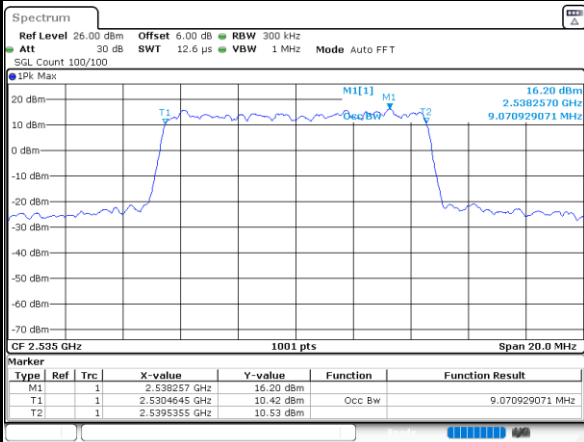
Mode	LTE Band 7 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.48
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.03
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.46	13.46
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.98





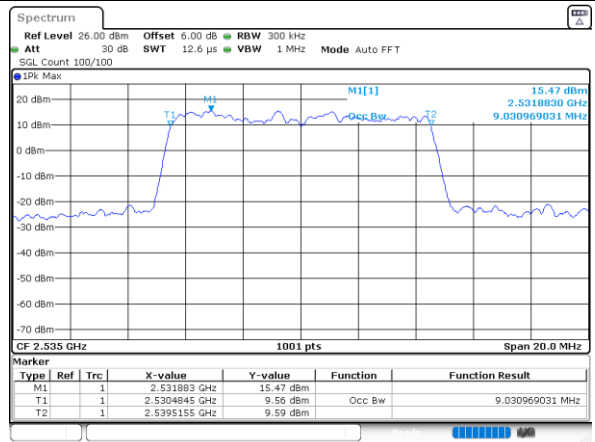
LTE Band 7

Middle Channel / 10MHz / QPSK



Date: 23, DEC, 2022 15:02:01

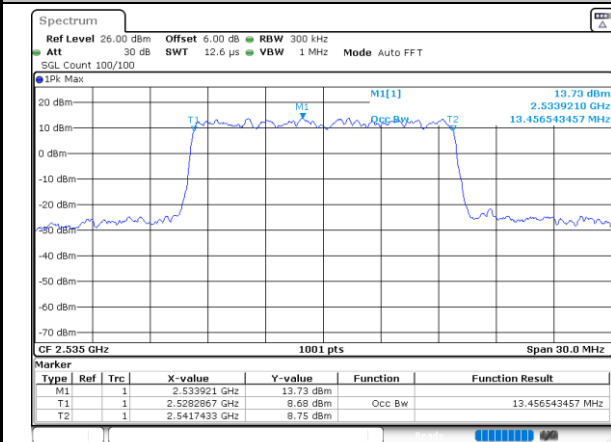
Middle Channel / 10MHz / 16QAM



Date: 23, DEC, 2022 15:03:06

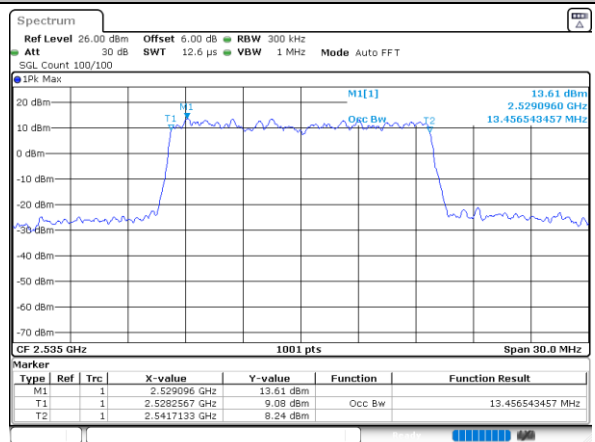
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 23, DEC, 2022 15:03:29

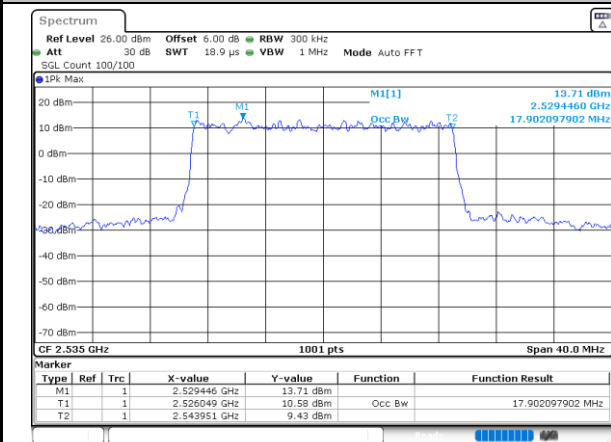
Middle Channel / 15MHz / 16QAM



Date: 23, DEC, 2022 15:04:14

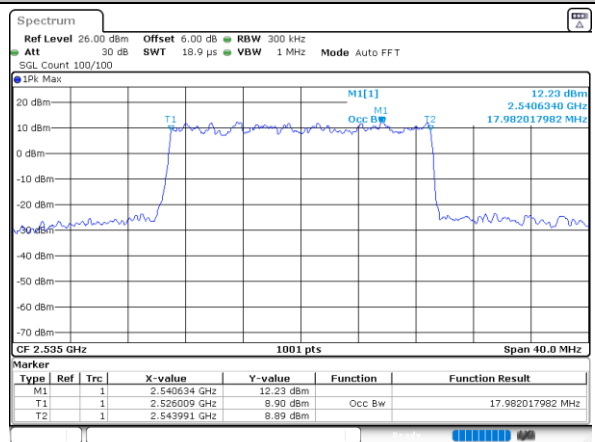
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 23, DEC, 2022 14:56:11

Middle Channel / 20MHz / 16QAM



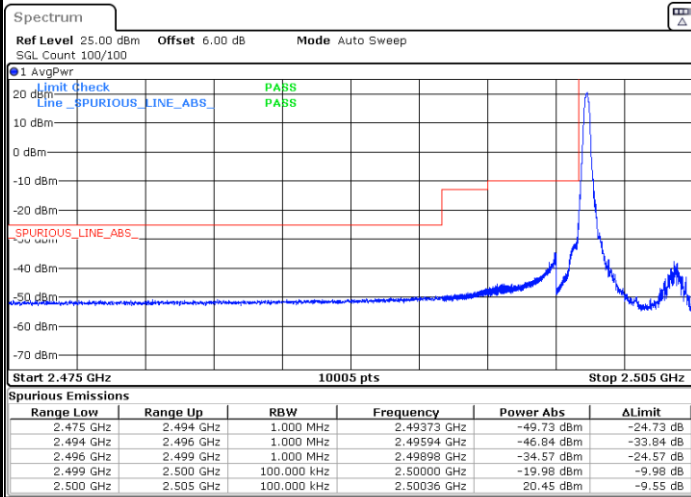
Date: 23, DEC, 2022 14:56:13



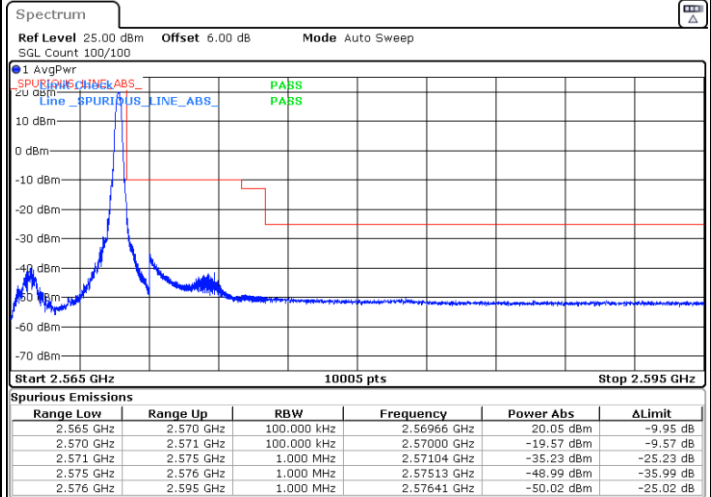
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

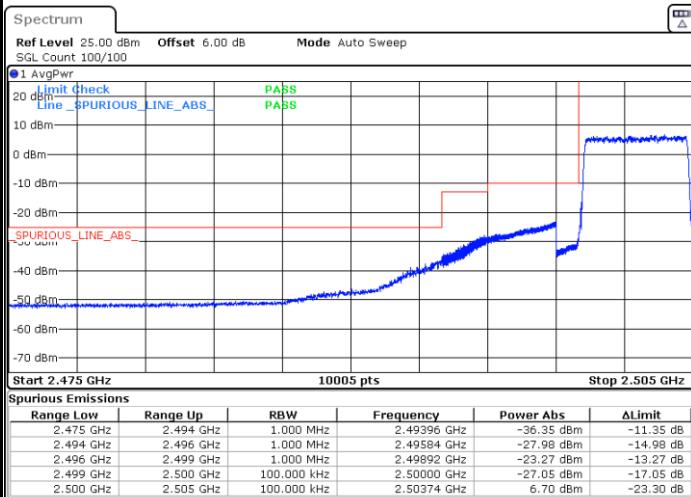
Lowest Band Edge / 1 RB



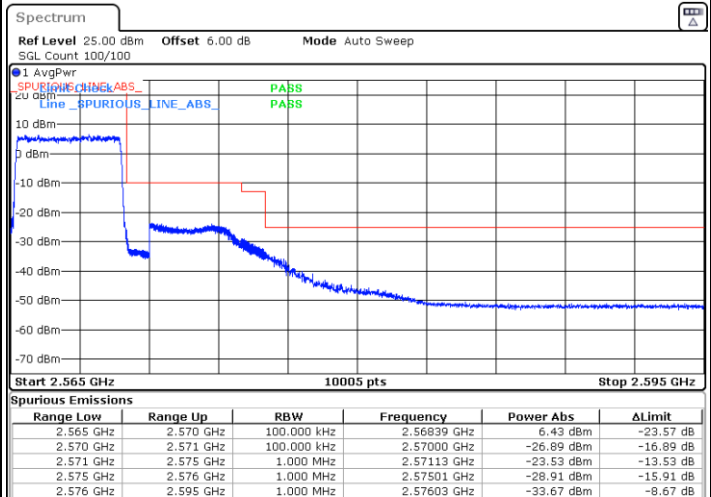
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



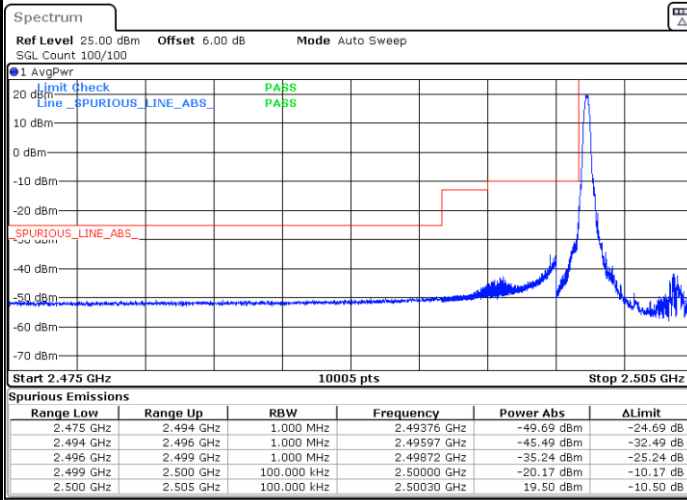
Highest Band Edge / Full RB





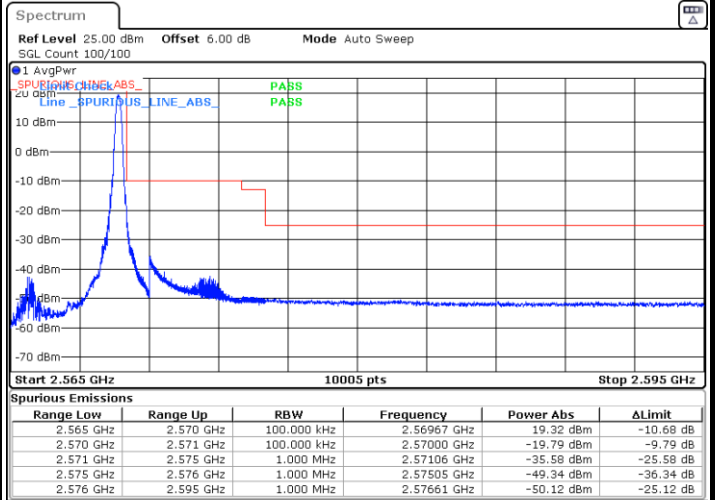
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



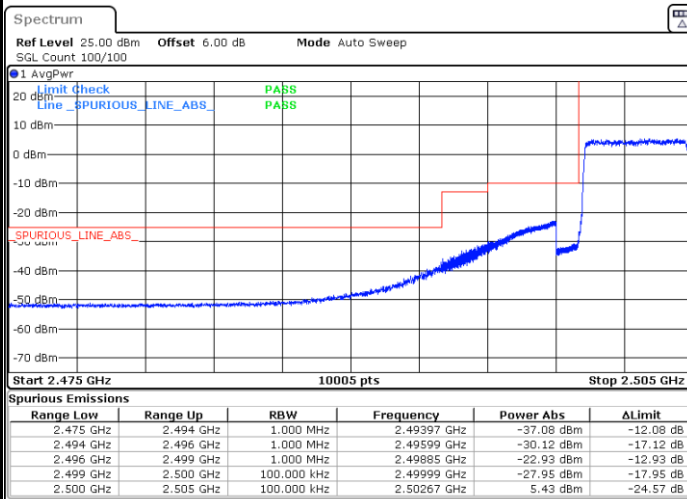
Date: 23.DEC.2022 13:30:41

Highest Band Edge / 1 RB



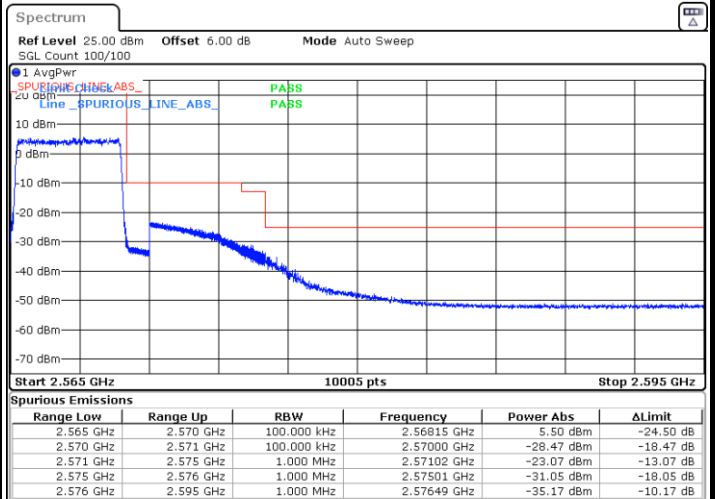
Date: 23.DEC.2022 13:56:47

Lowest Band Edge / Full RB



Date: 23.DEC.2022 13:35:08

Highest Band Edge / Full RB

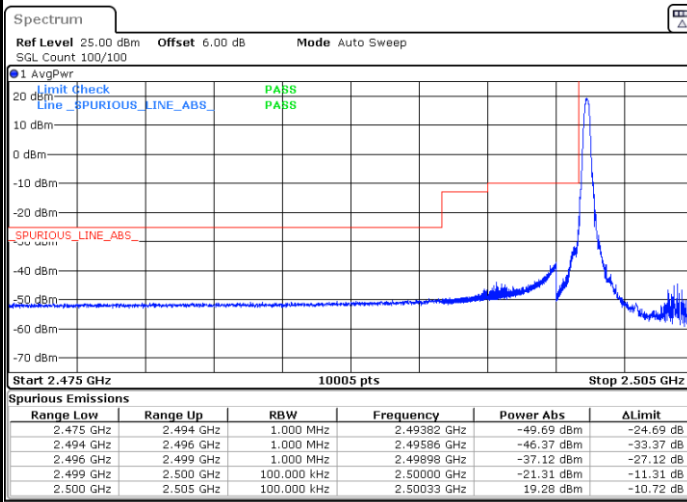


Date: 23.DEC.2022 14:01:13



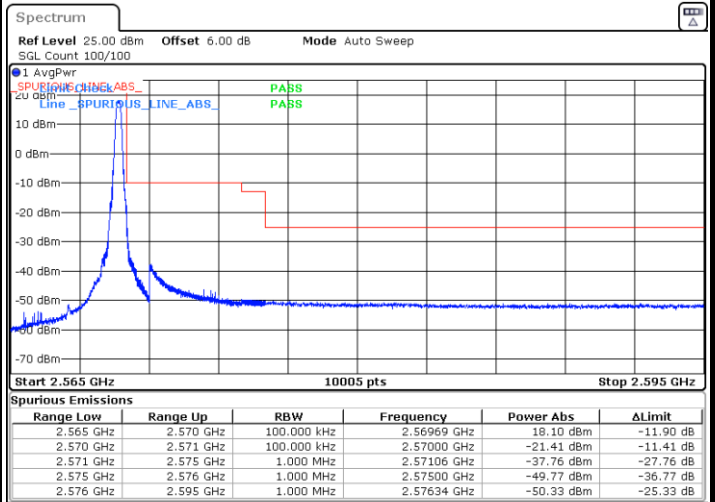
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



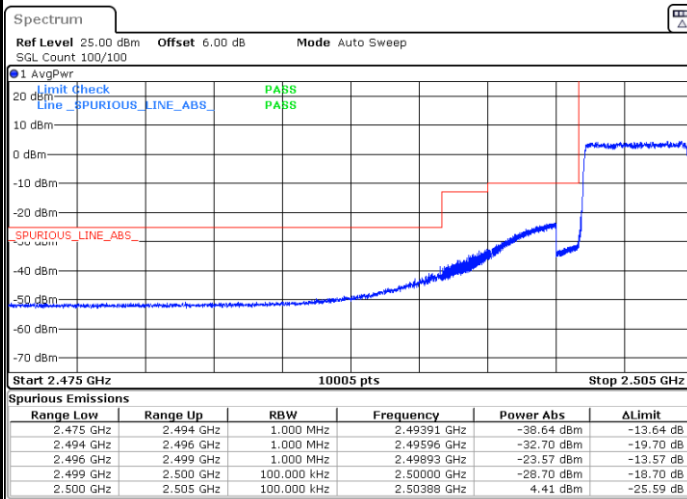
Date: 23.DEC.2022 13:31:47

Highest Band Edge / 1 RB



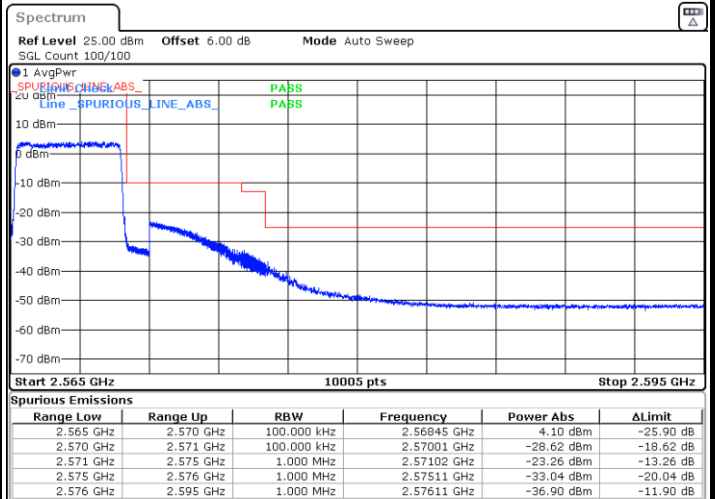
Date: 23.DEC.2022 13:57:53

Lowest Band Edge / Full RB



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

Highest Band Edge / Full RB



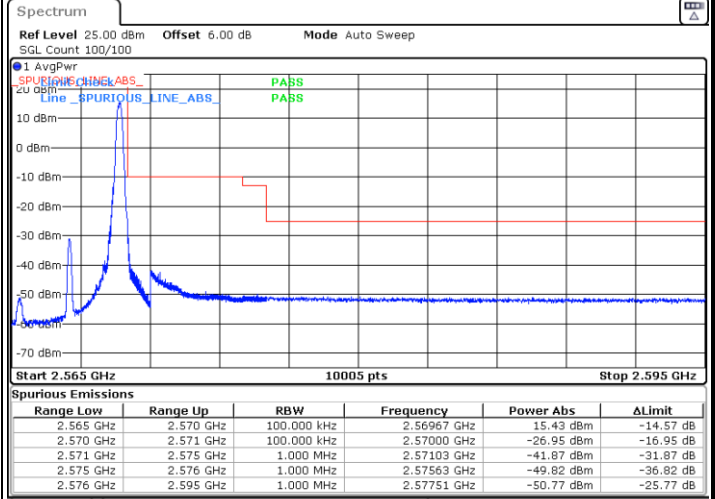
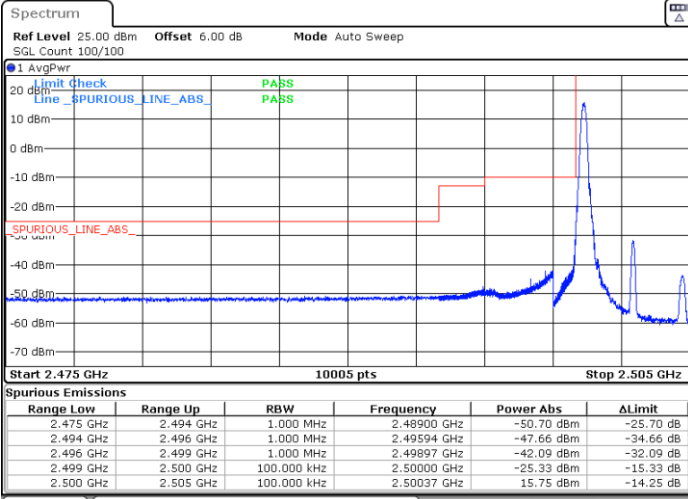
Date: 23.DEC.2022 14:02:19



LTE Band 7 / 5MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

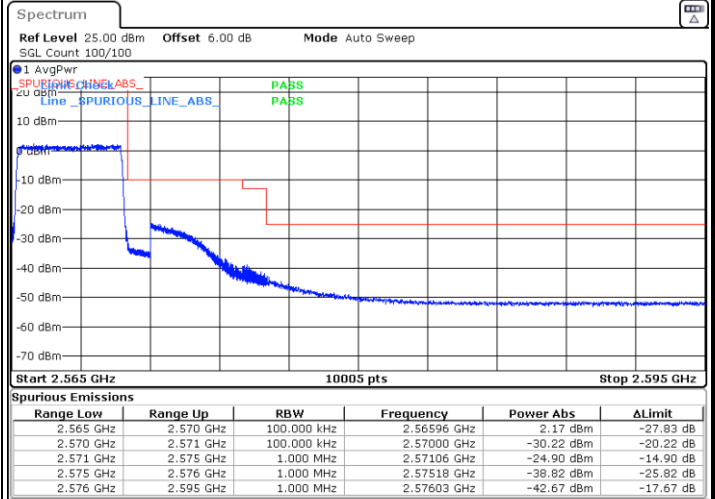
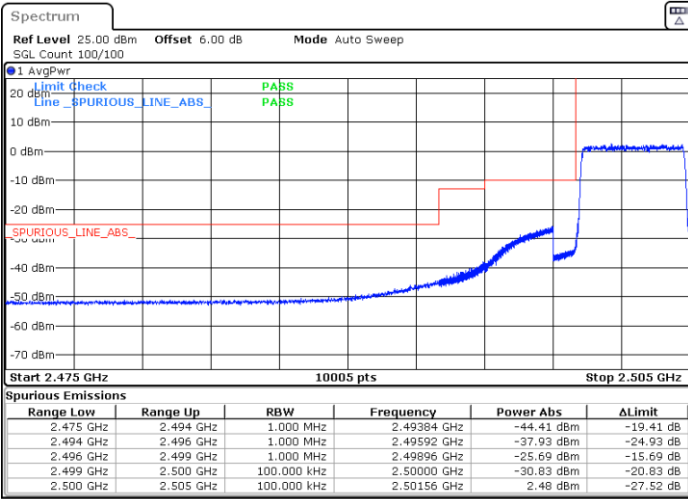


Date: 23.DEC.2022 13:32:53

Date: 23.DEC.2022 13:58:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



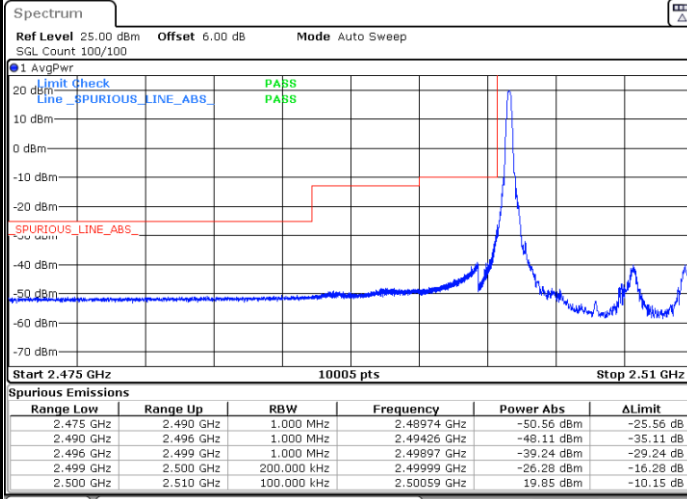
Date: 23.DEC.2022 13:37:19

Date: 23.DEC.2022 14:03:25



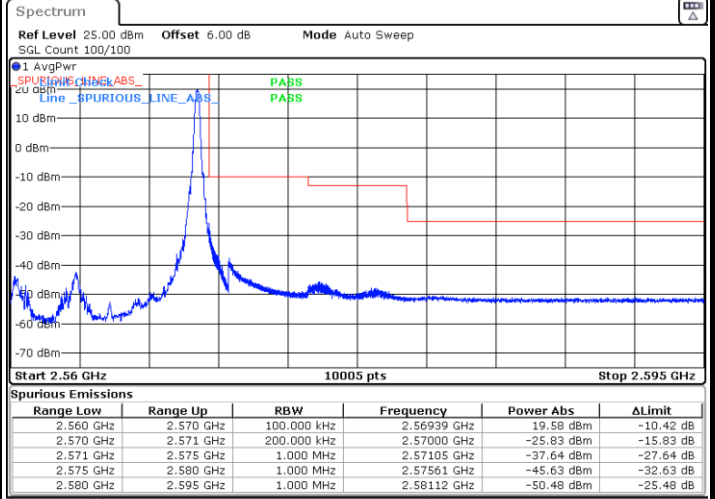
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



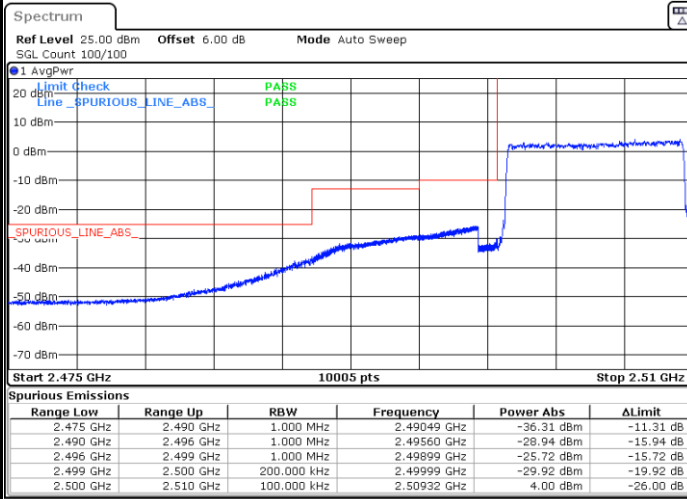
Date: 23.DEC.2022 14:06:43

Highest Band Edge / 1 RB



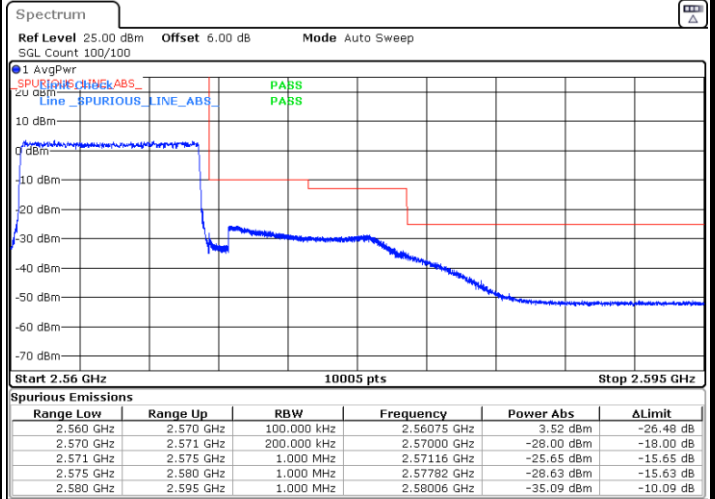
Date: 23.DEC.2022 14:18:56

Lowest Band Edge / Full RB



Date: 23.DEC.2022 14:10:56

Highest Band Edge / Full RB

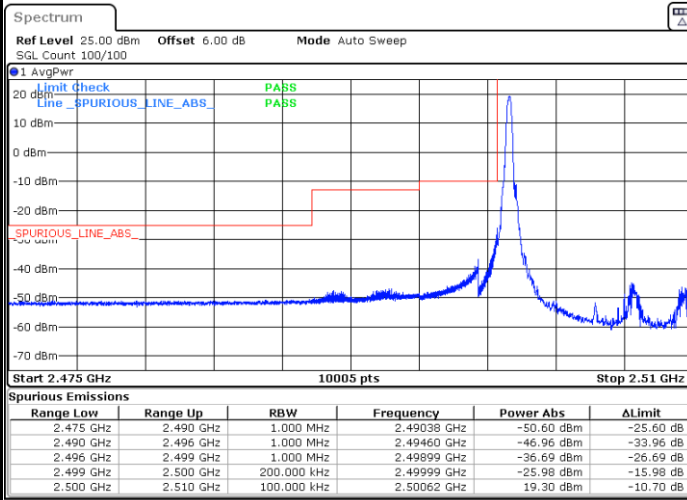


Date: 23.DEC.2022 14:21:21



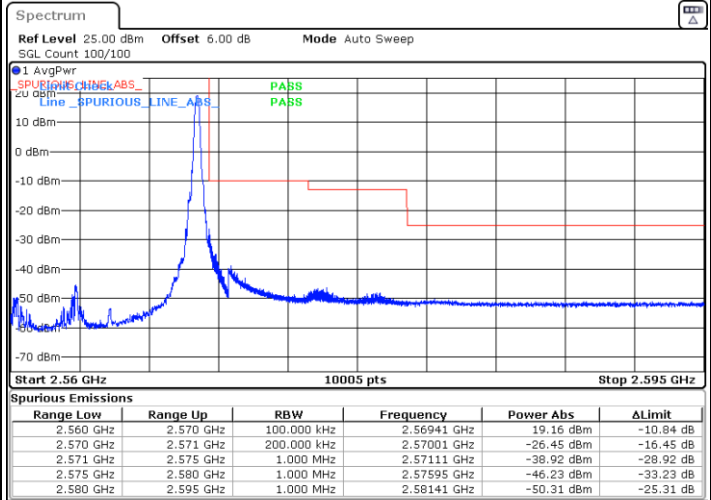
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



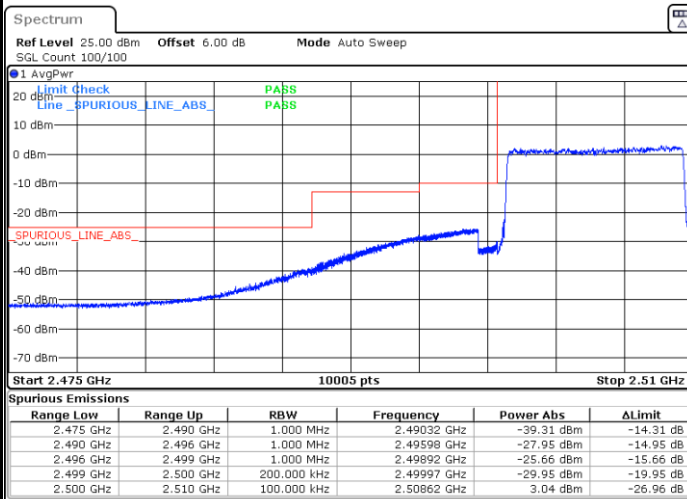
Date: 23.DEC.2022 14:07:49

Highest Band Edge / 1 RB



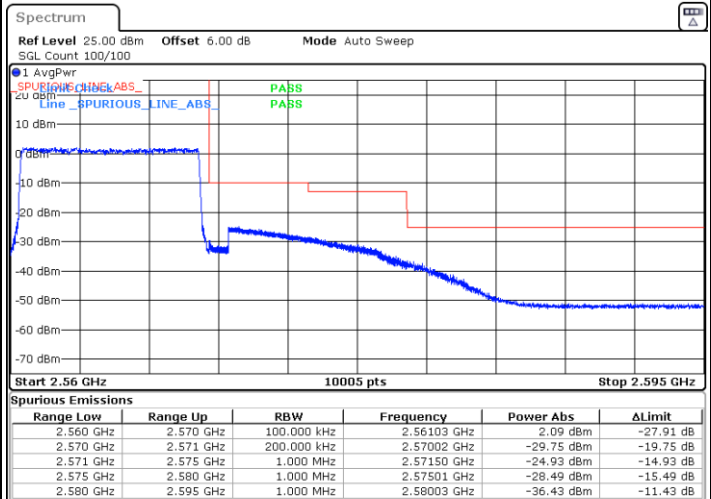
Date: 23.DEC.2022 14:19:32

Lowest Band Edge / Full RB



Date: 23.DEC.2022 14:11:31

Highest Band Edge / Full RB



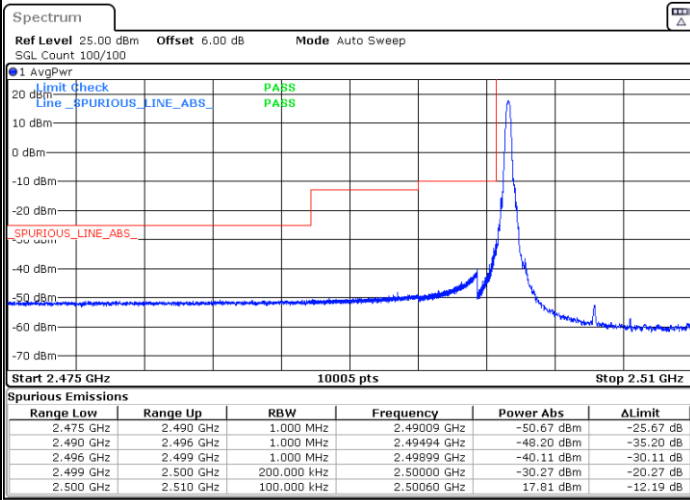
Date: 23.DEC.2022 14:21:57



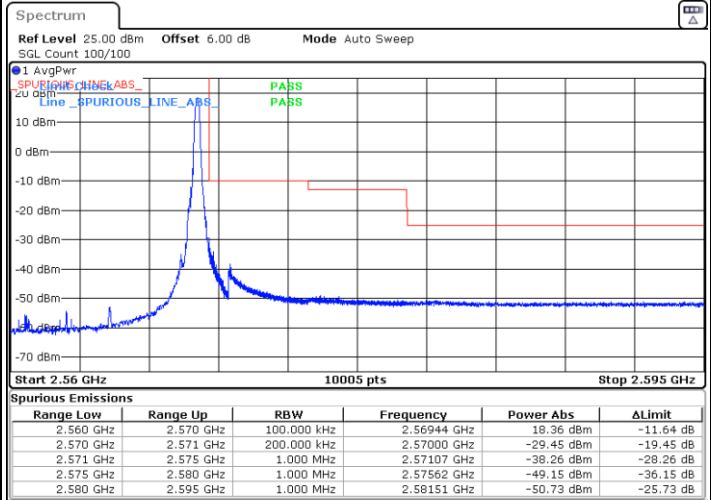
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



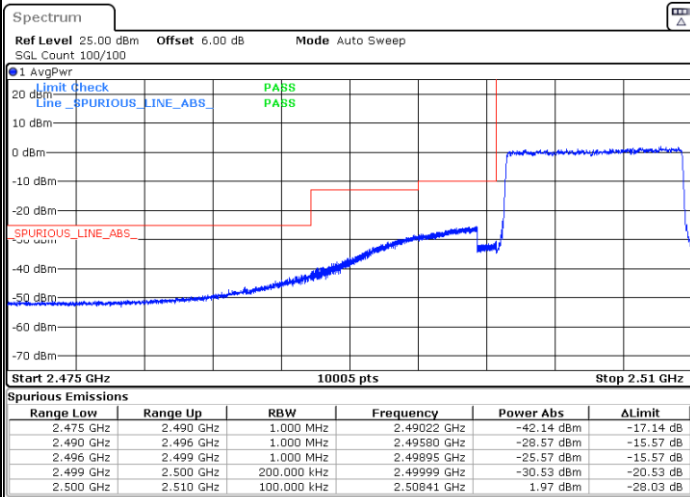
Date: 23.DEC.2022 14:09:41



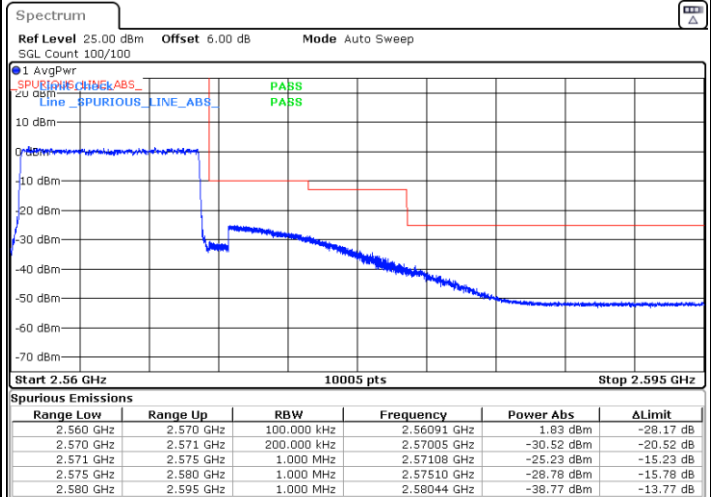
Date: 23.DEC.2022 14:20:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23.DEC.2022 14:12:07



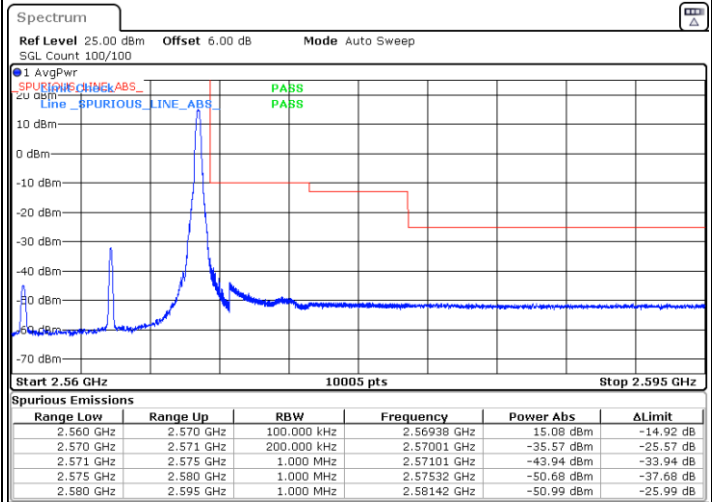
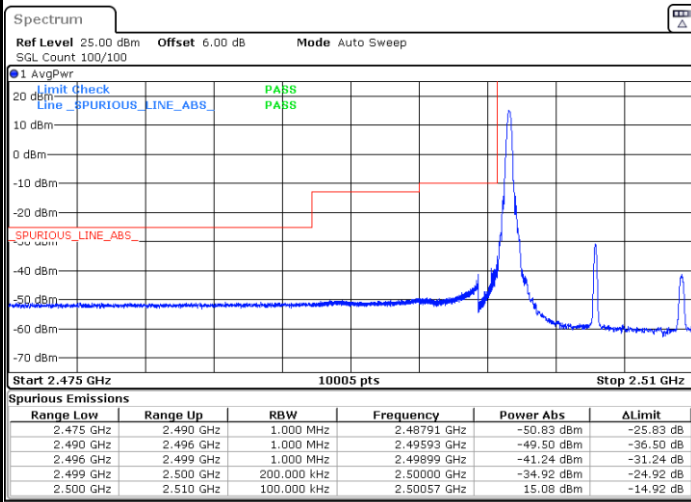
Date: 23.DEC.2022 14:22:33



LTE Band 7 / 10MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

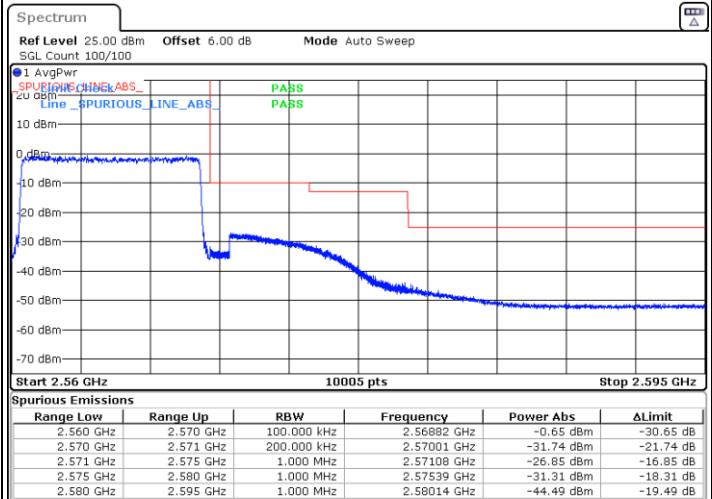
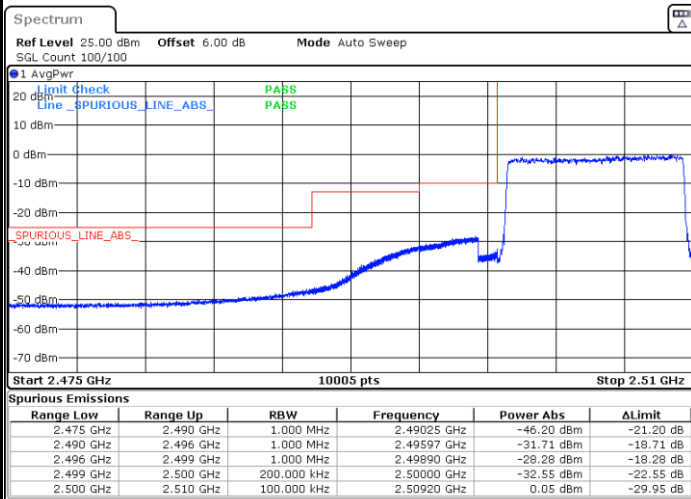


Date: 23.DEC.2022 14:10:17

Date: 23.DEC.2022 14:20:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



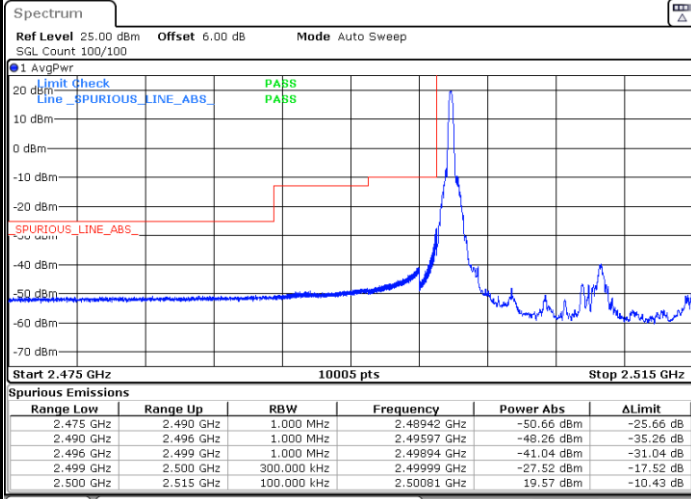
Date: 23.DEC.2022 14:12:43

Date: 23.DEC.2022 14:23:08



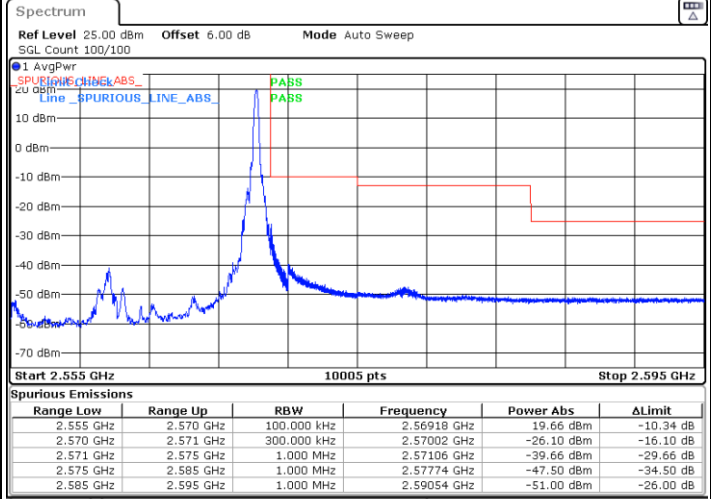
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



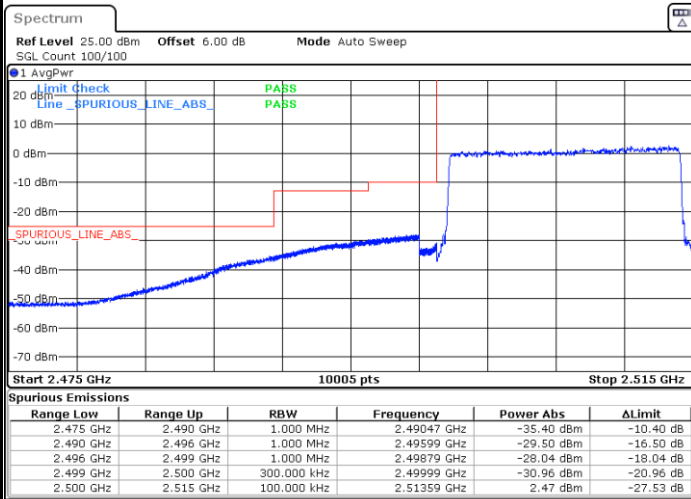
Date: 23.DEC.2022 14:25:35

Highest Band Edge / 1 RB



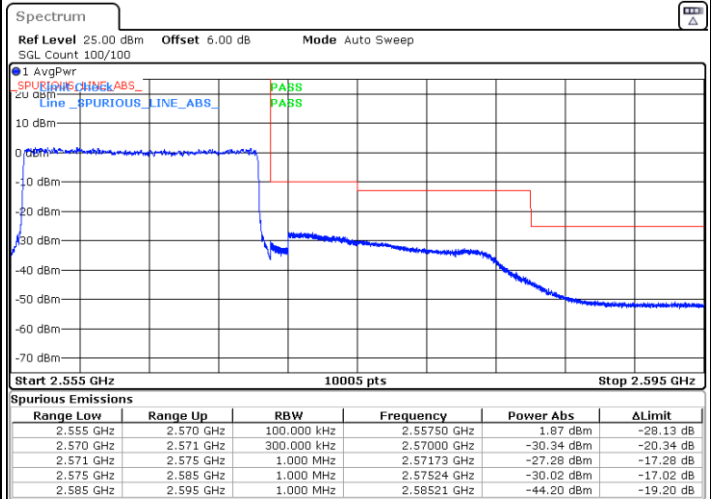
Date: 23.DEC.2022 14:34:29

Lowest Band Edge / Full RB



Date: 23.DEC.2022 14:28:01

Highest Band Edge / Full RB

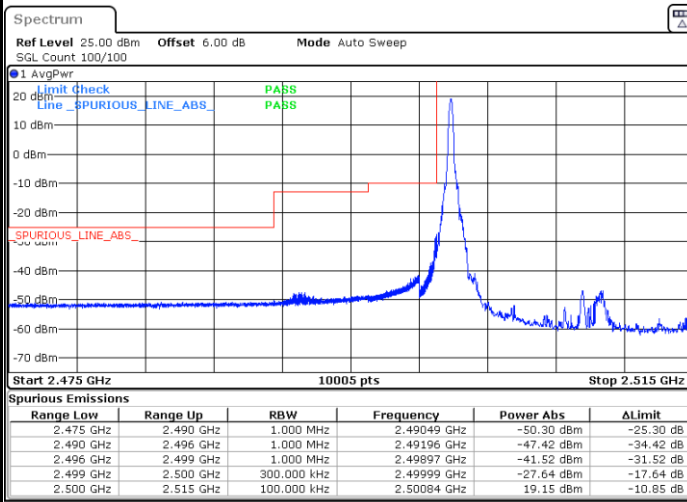


Date: 23.DEC.2022 14:36:54



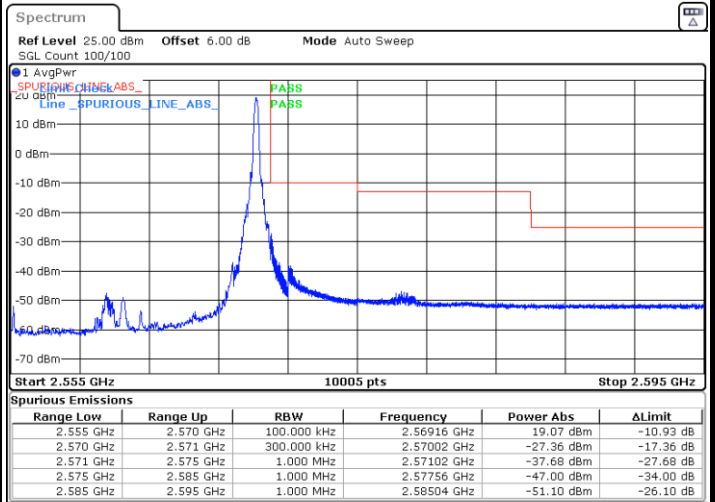
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



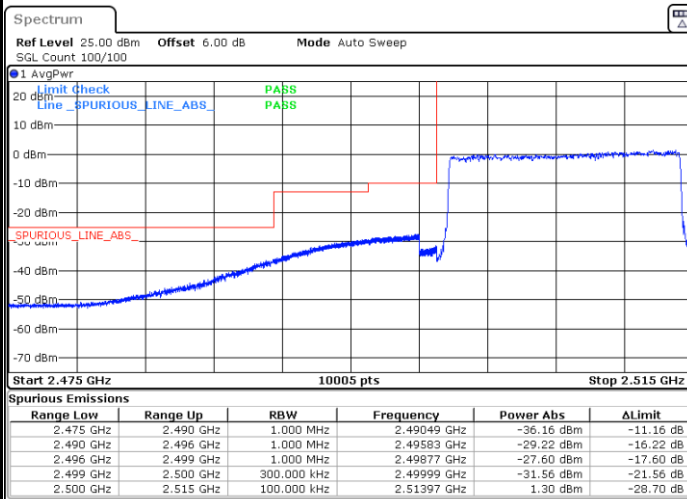
Date: 23.DEC.2022 14:26:11

Highest Band Edge / 1 RB



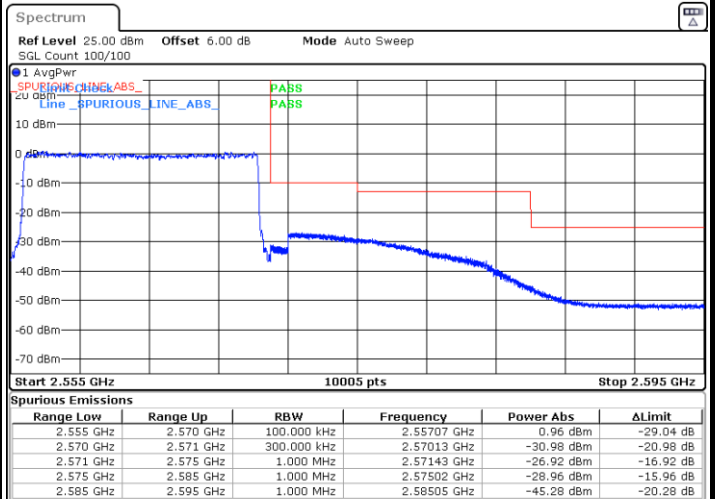
Date: 23.DEC.2022 14:35:04

Lowest Band Edge / Full RB



Date: 23.DEC.2022 14:28:37

Highest Band Edge / Full RB

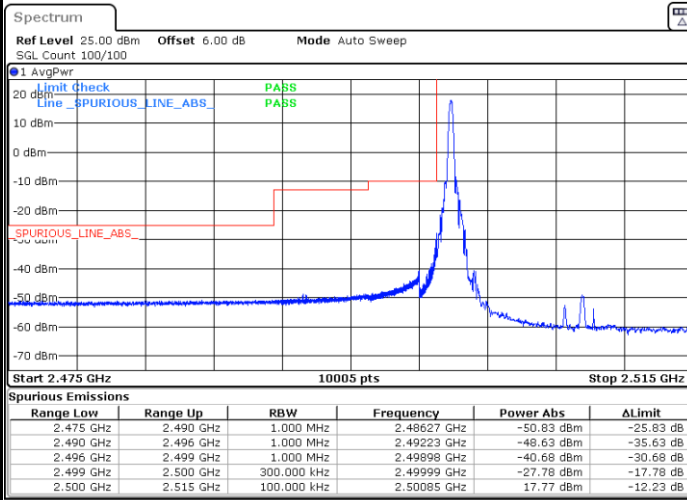


Date: 23.DEC.2022 14:37:30



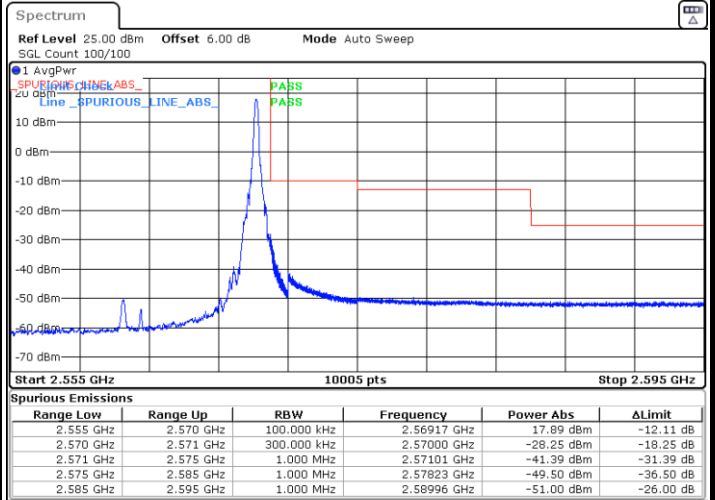
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



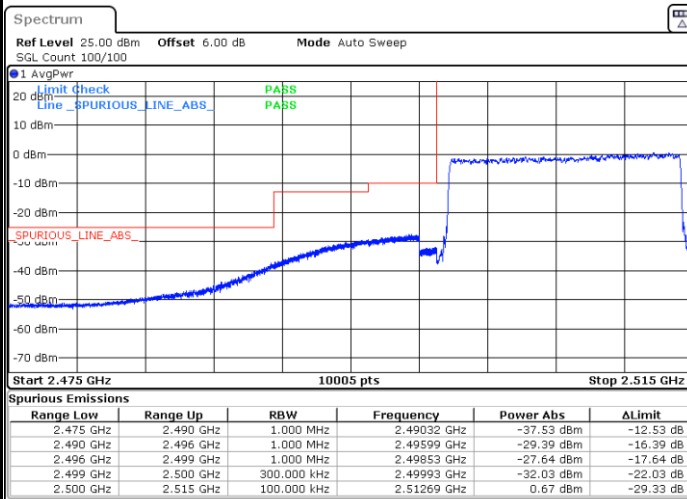
Date: 23.DEC.2022 14:26:46

Highest Band Edge / 1 RB



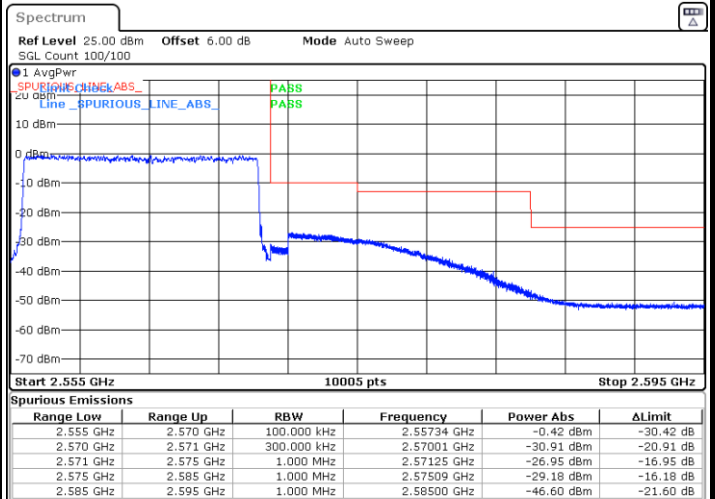
Date: 23.DEC.2022 14:35:40

Lowest Band Edge / Full RB



Date: 23.DEC.2022 14:29:13

Highest Band Edge / Full RB

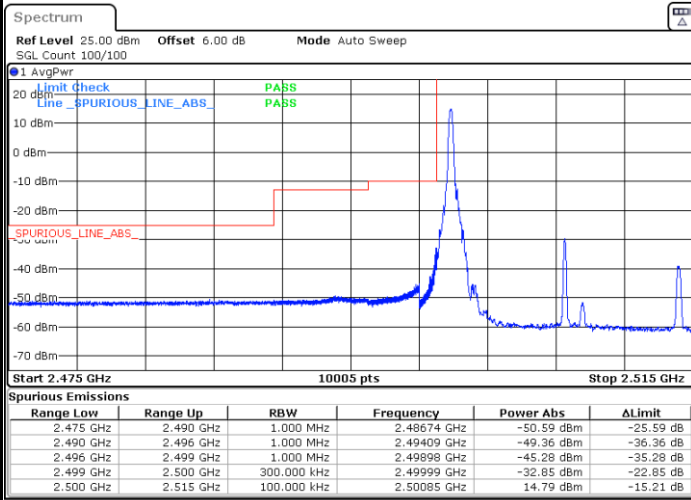


Date: 23.DEC.2022 14:38:05



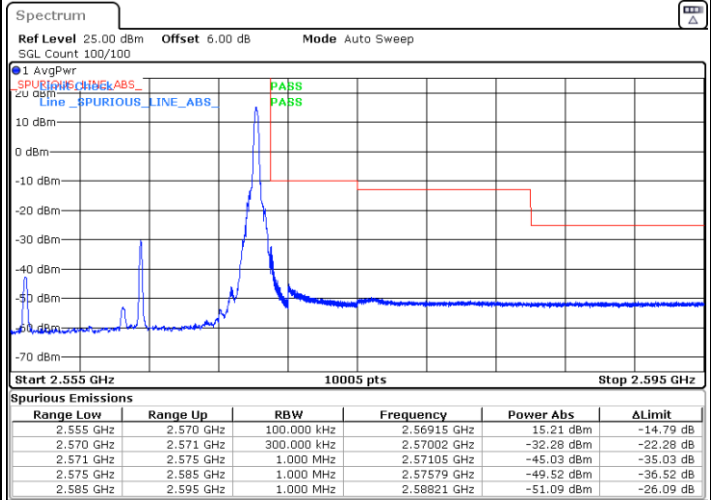
LTE Band 7 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



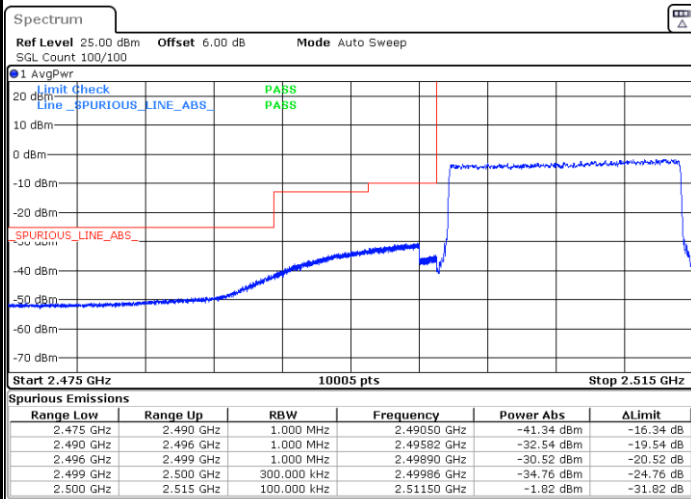
Date: 23.DEC.2022 14:27:22

Highest Band Edge / 1 RB



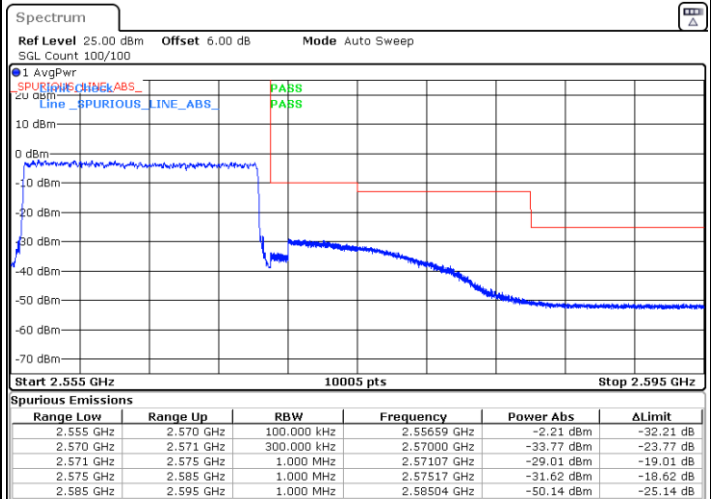
Date: 23.DEC.2022 14:36:16

Lowest Band Edge / Full RB



Date: 23.DEC.2022 14:29:49

Highest Band Edge / Full RB

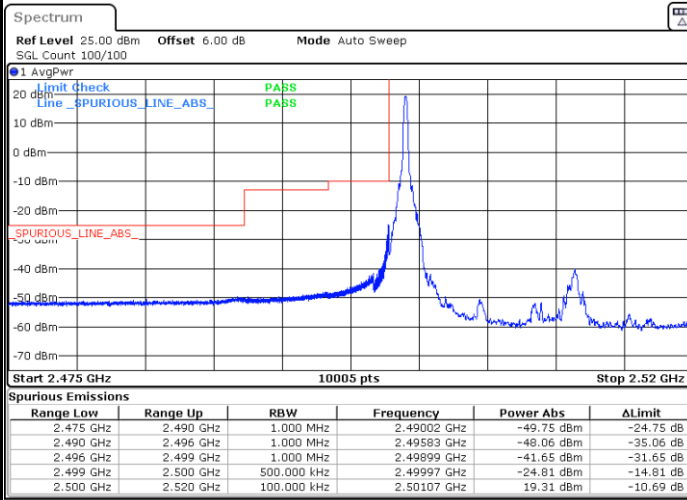


Date: 23.DEC.2022 14:38:41



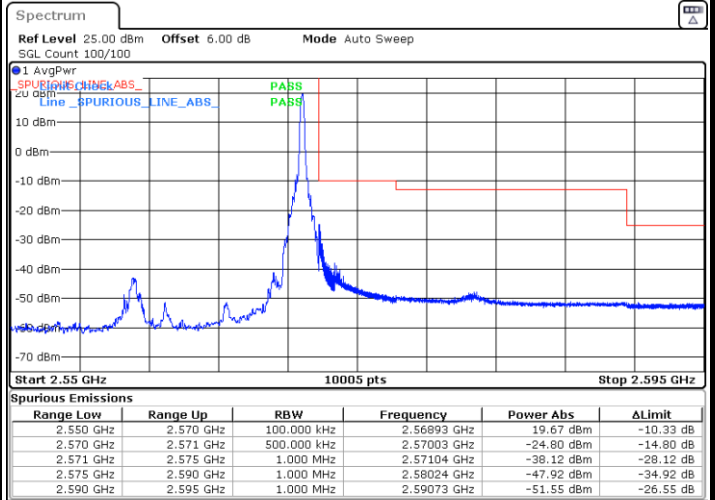
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



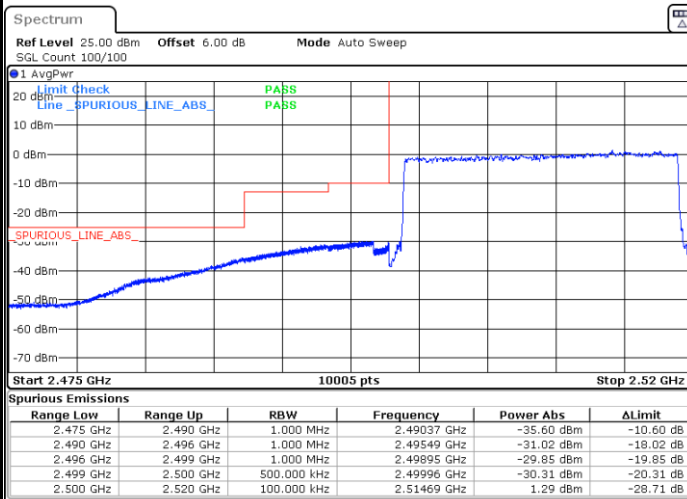
Date: 23.DEC.2022 14:41:53

Highest Band Edge / 1 RB



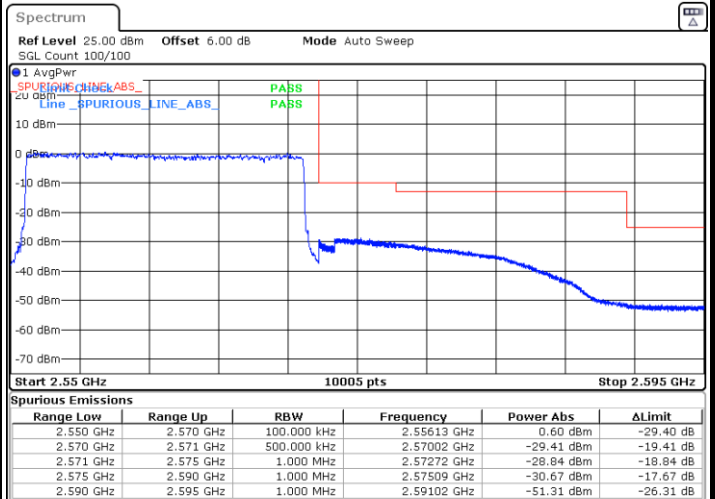
Date: 23.DEC.2022 14:50:57

Lowest Band Edge / Full RB



Date: 23.DEC.2022 14:44:20

Highest Band Edge / Full RB

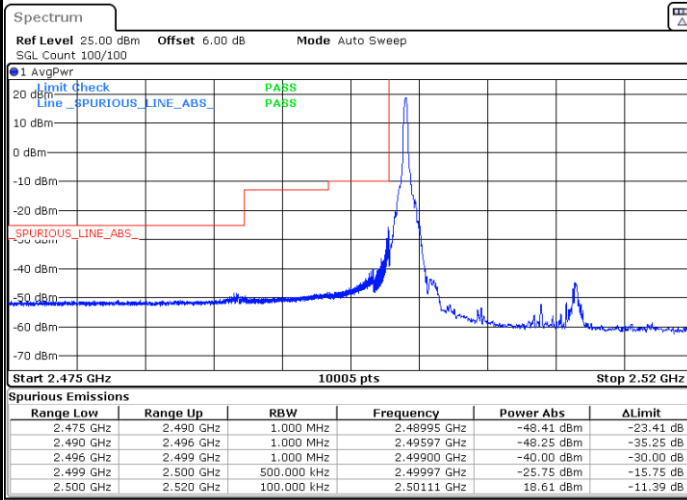


Date: 23.DEC.2022 14:53:23



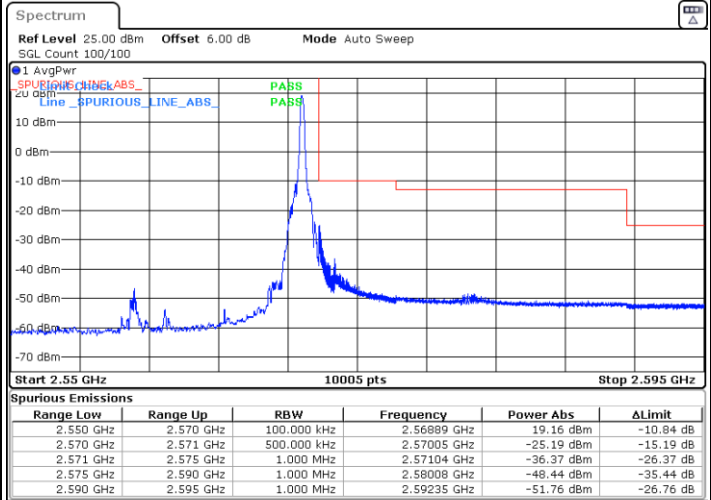
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



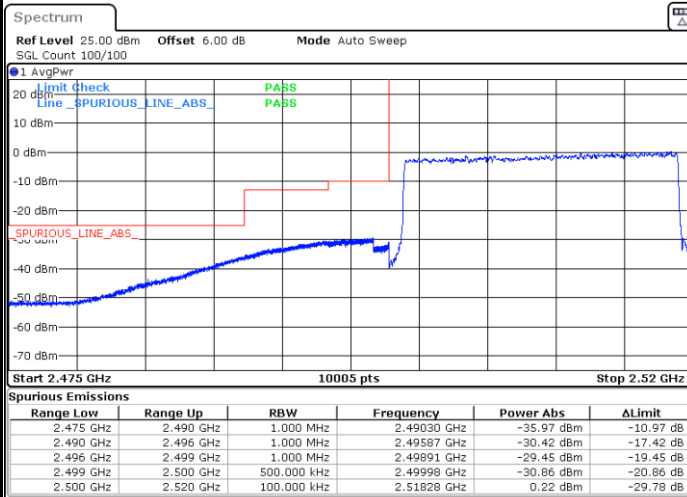
Date: 23.DEC.2022 14:42:29

Highest Band Edge / 1 RB



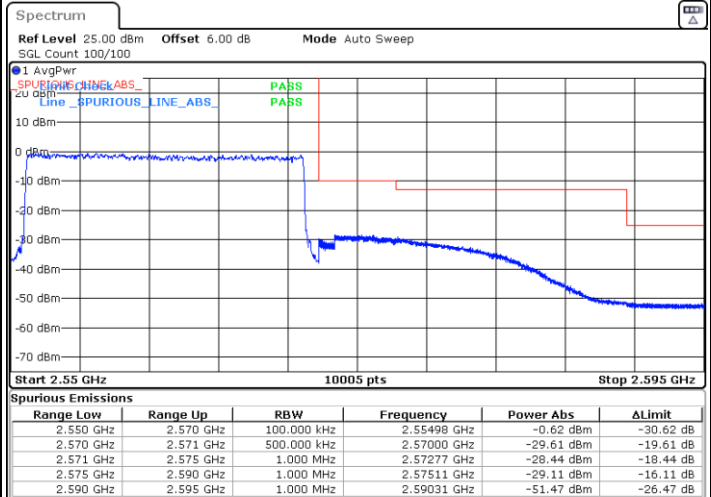
Date: 23.DEC.2022 14:51:33

Lowest Band Edge / Full RB



Date: 23.DEC.2022 14:44:55

Highest Band Edge / Full RB

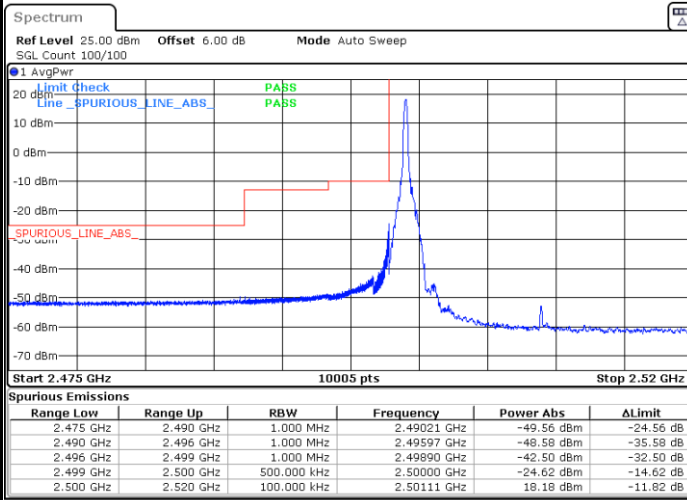


Date: 23.DEC.2022 14:53:58



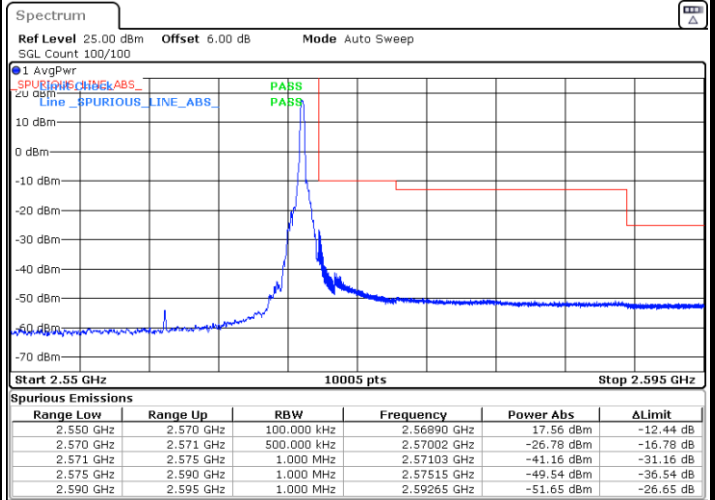
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



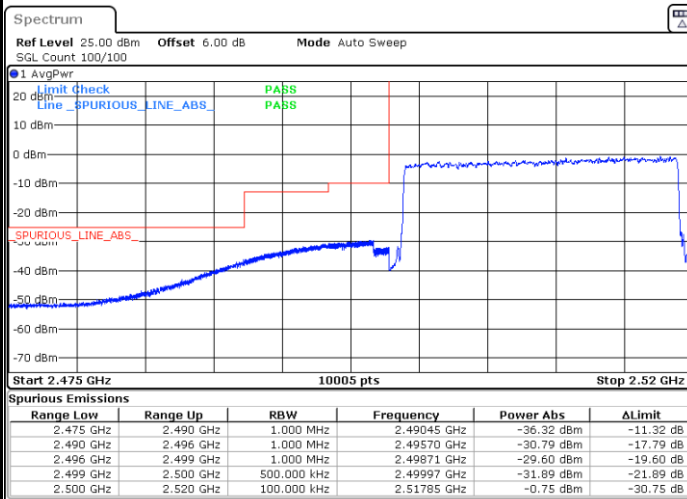
Date: 23.DEC.2022 14:43:05

Highest Band Edge / 1 RB



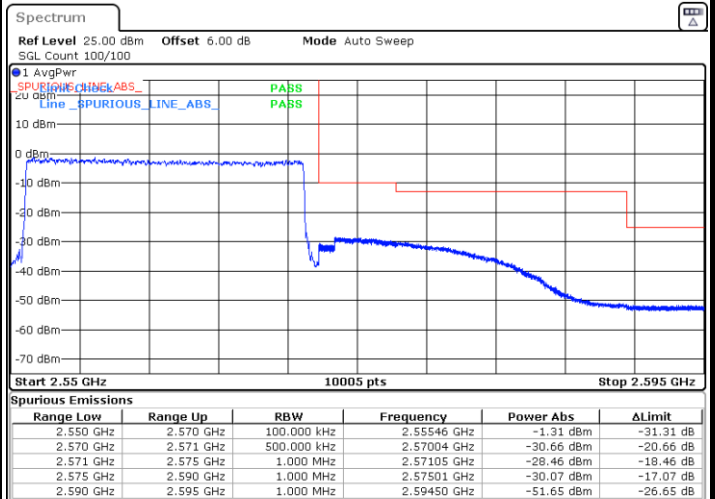
Date: 23.DEC.2022 14:52:09

Lowest Band Edge / Full RB



Date: 23.DEC.2022 14:45:31

Highest Band Edge / Full RB



Date: 23.DEC.2022 14:54:34