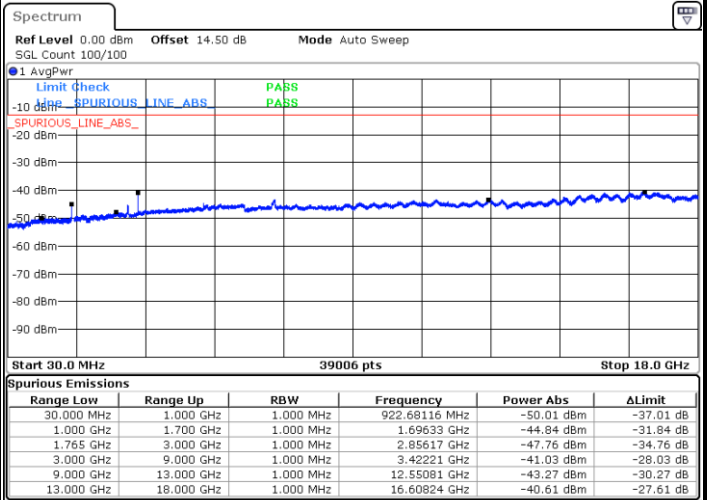
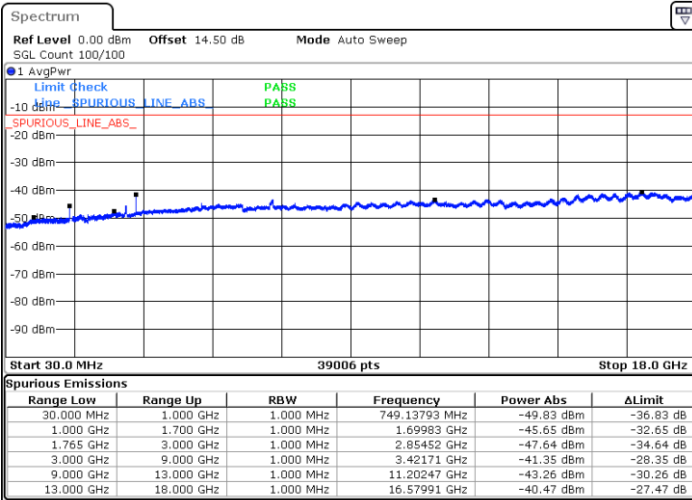




LTE Band 4

Lowest Channel / QPSK_15MHz

Lowest Channel / QPSK_20MHz

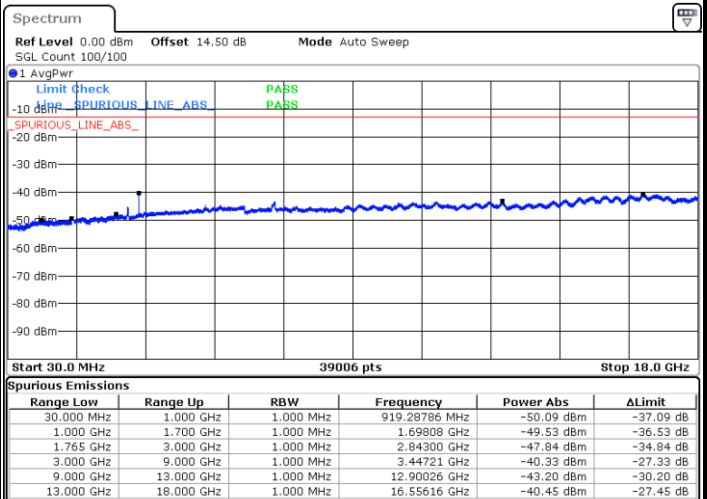
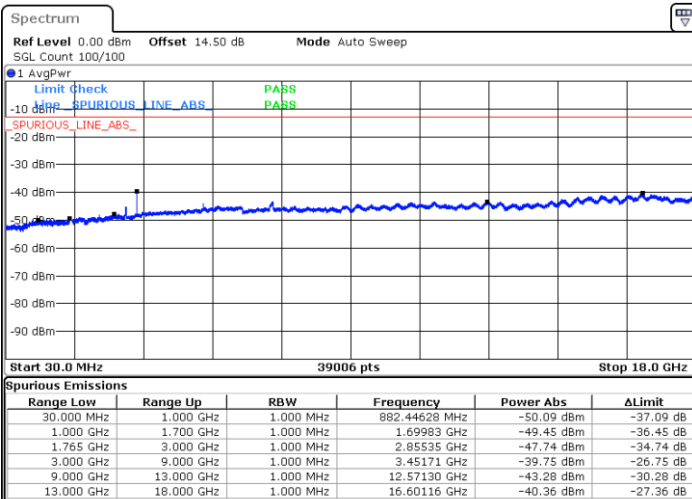


Date: 9 JUN.2023 16:29:35

Date: 9 JUN.2023 16:40:00

Middle Channel / QPSK_15MHz

Middle Channel / QPSK_20MHz



Date: 9 JUN.2023 16:30:50

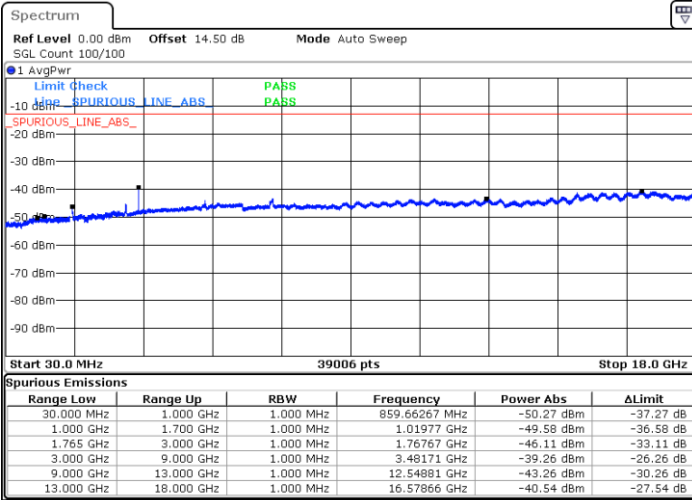
Date: 9 JUN.2023 16:41:15



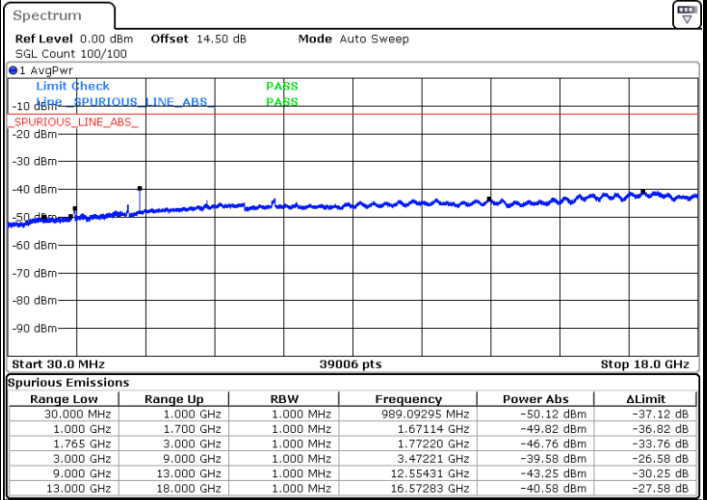
LTE Band 4

Highest Channel / QPSK_15MHz

Highest Channel / QPSK_20MHz



Date: 9 JUN.2023 16:32:05



Date: 9 JUN.2023 16:42:30



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

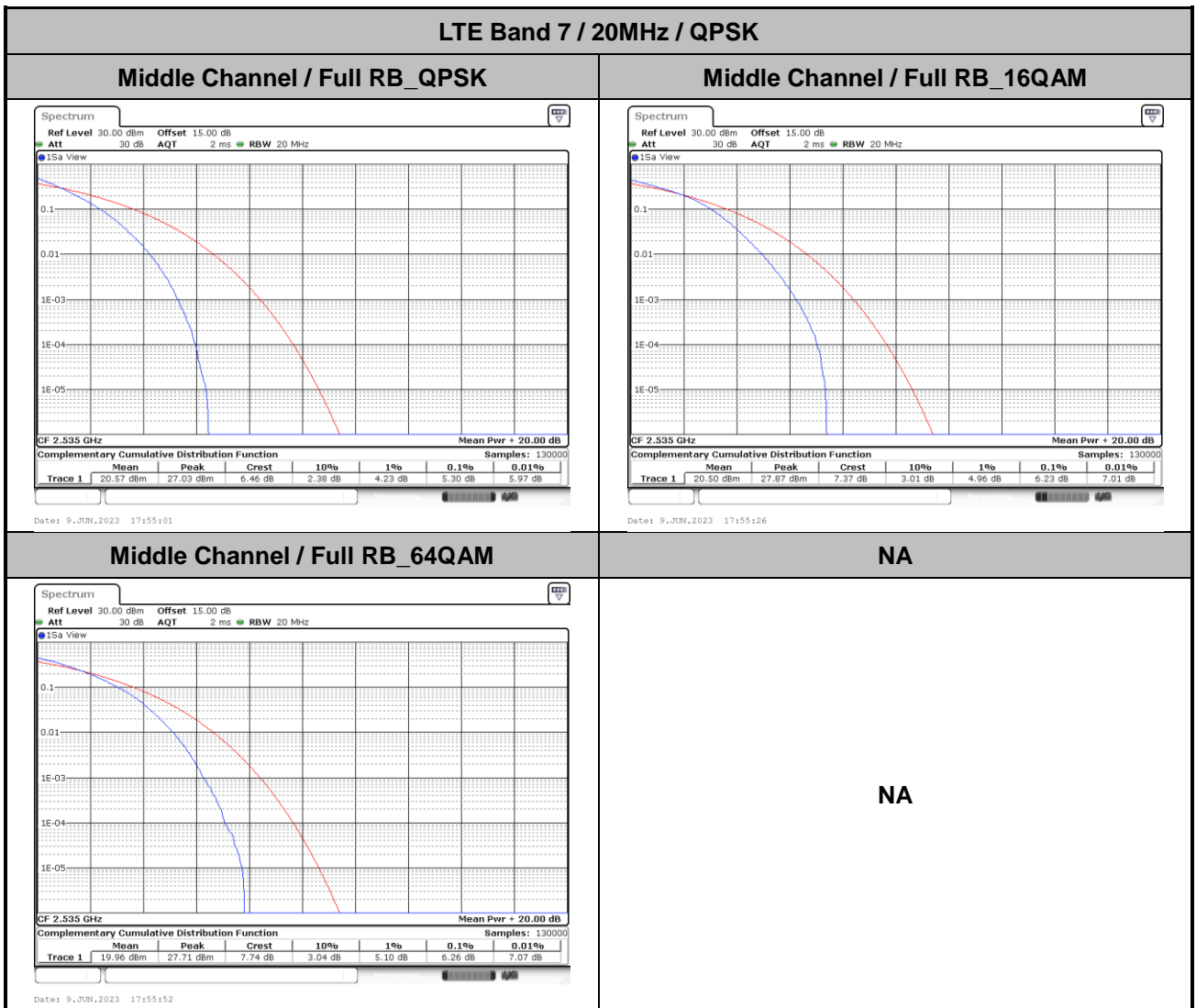
1. Normal Voltage =3.88 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.47 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

Peak-to-Average Ratio

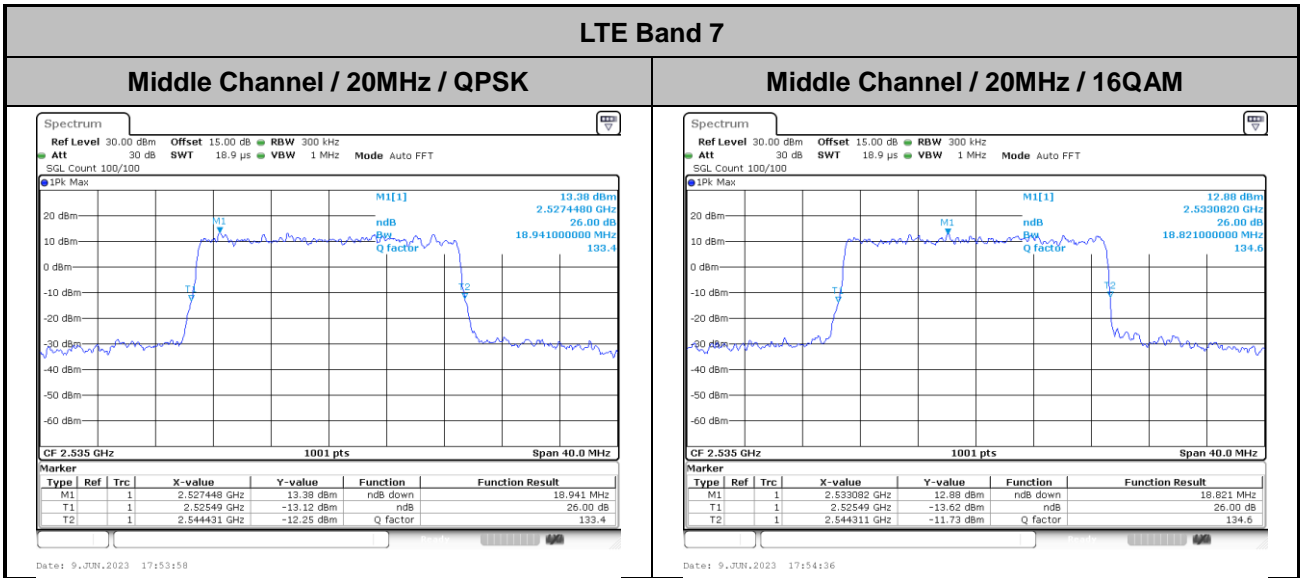
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.30	6.23	6.26	PASS





26dB Bandwidth

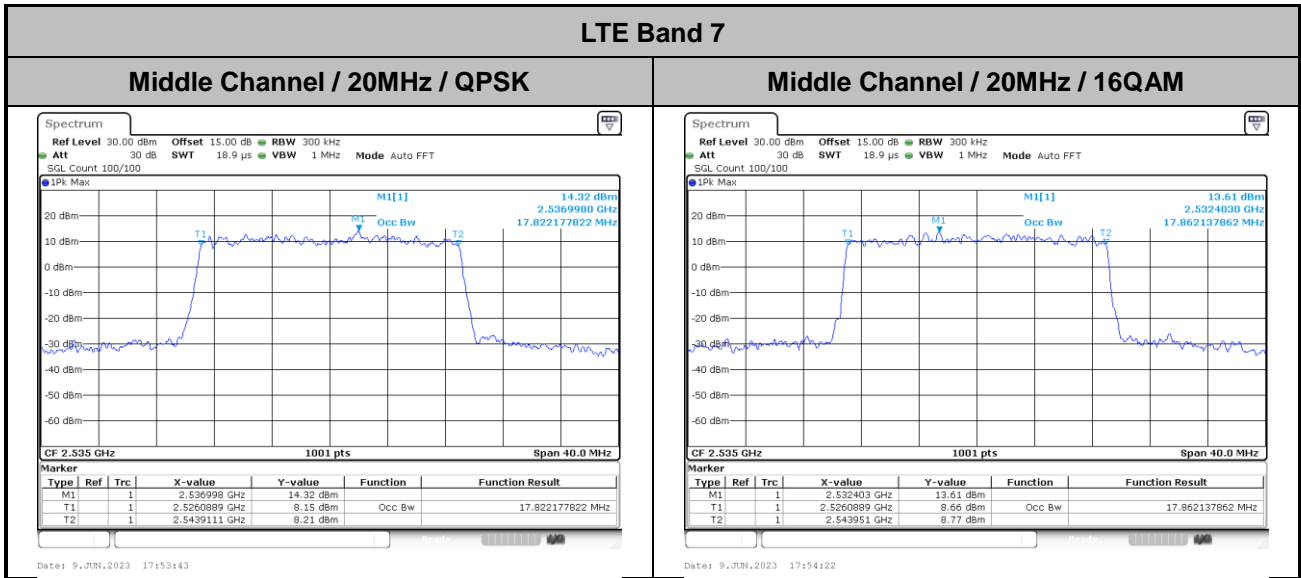
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.94	18.82





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.82	17.86

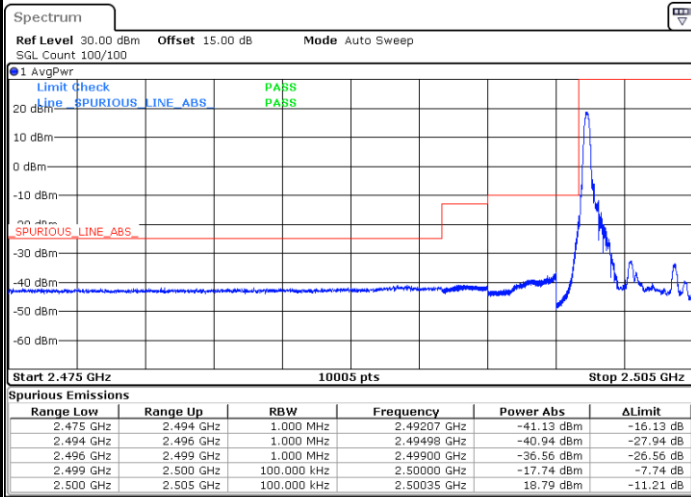




Conducted Band Edge

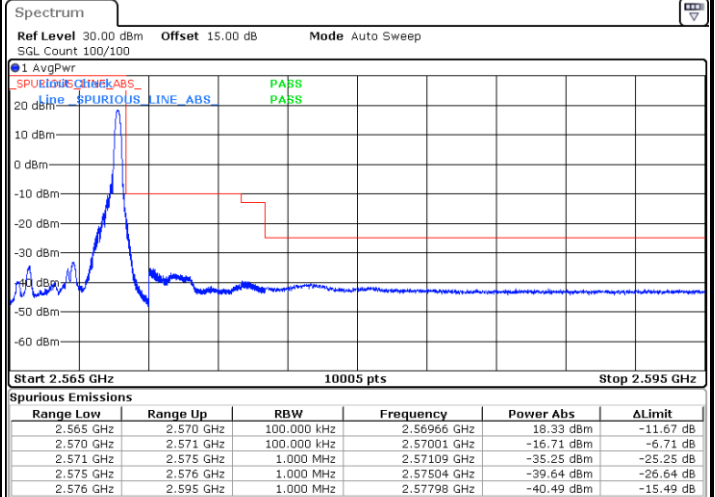
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



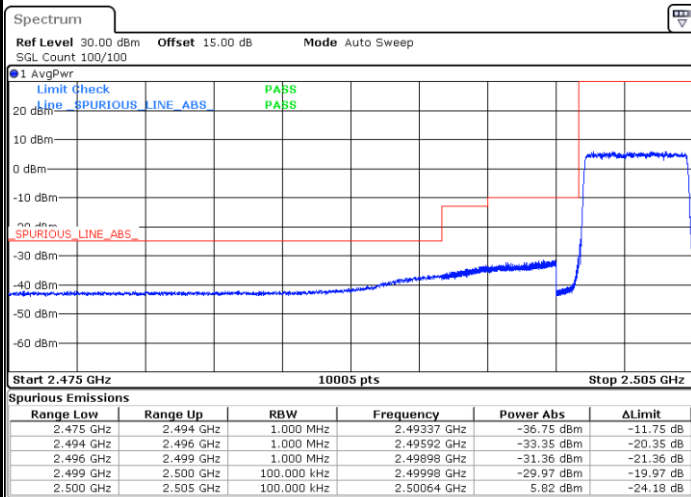
Date: 9 JUN, 2023 17:14:19

Highest Band Edge / 1 RB



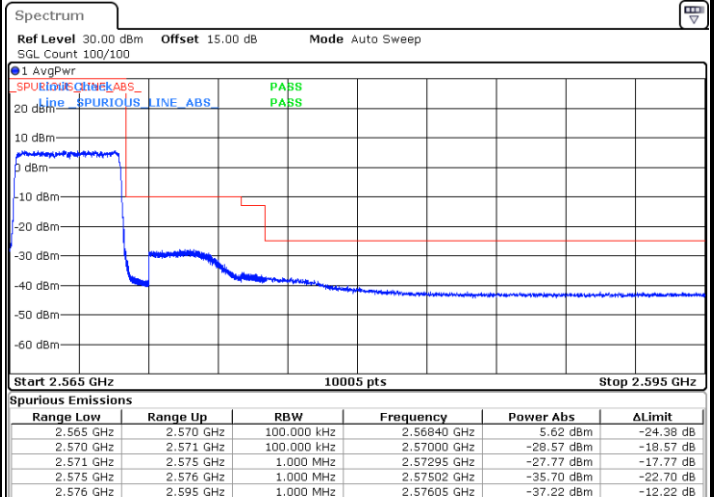
Date: 9 JUN, 2023 17:17:41

Lowest Band Edge / Full RB



Date: 9 JUN, 2023 17:12:17

Highest Band Edge / Full RB



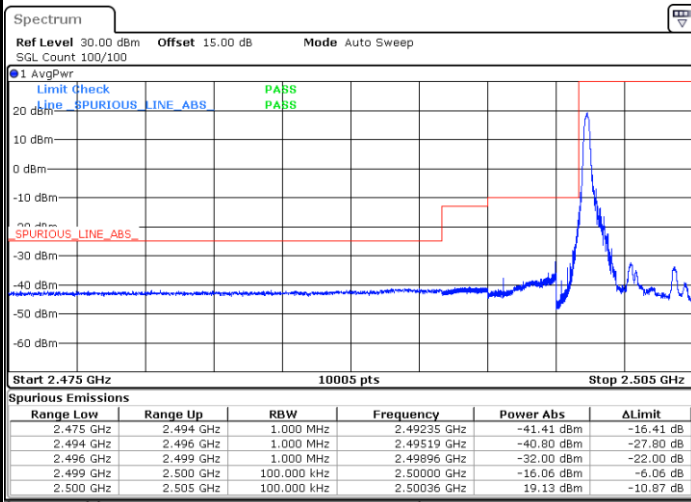
Date: 9 JUN, 2023 17:16:00



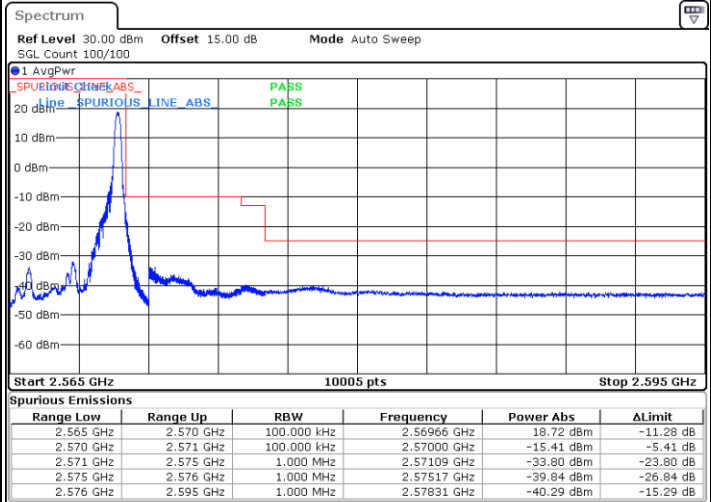
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



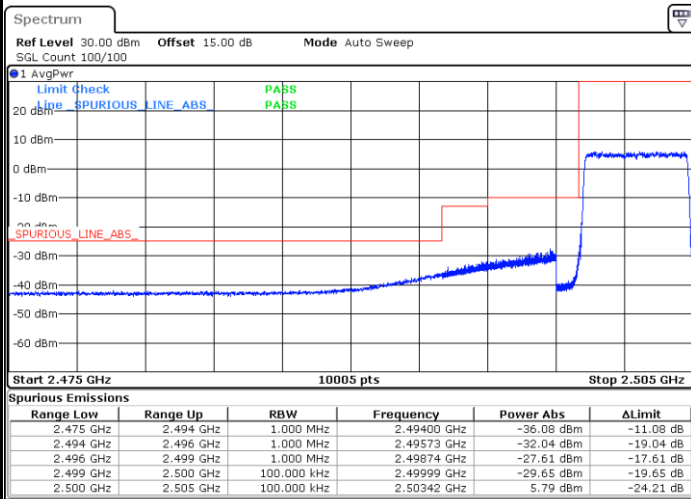
Date: 9 JUN 2023 17:14:52



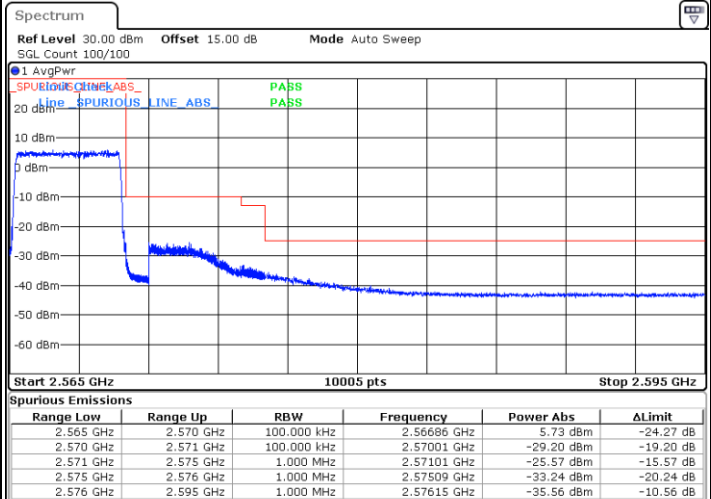
Date: 9 JUN 2023 17:18:15

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN 2023 17:13:11

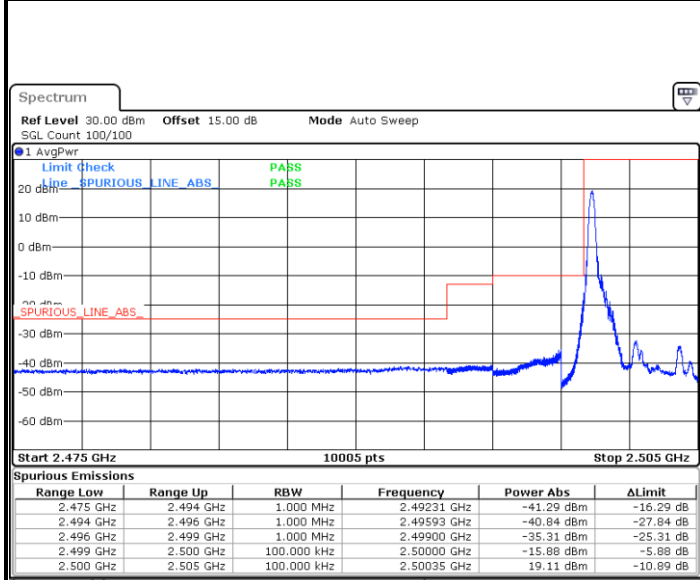


Date: 9 JUN 2023 17:16:34



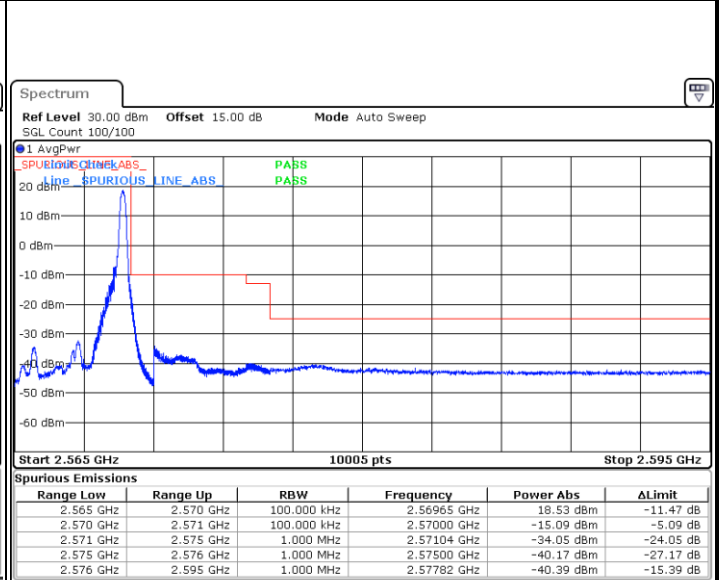
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



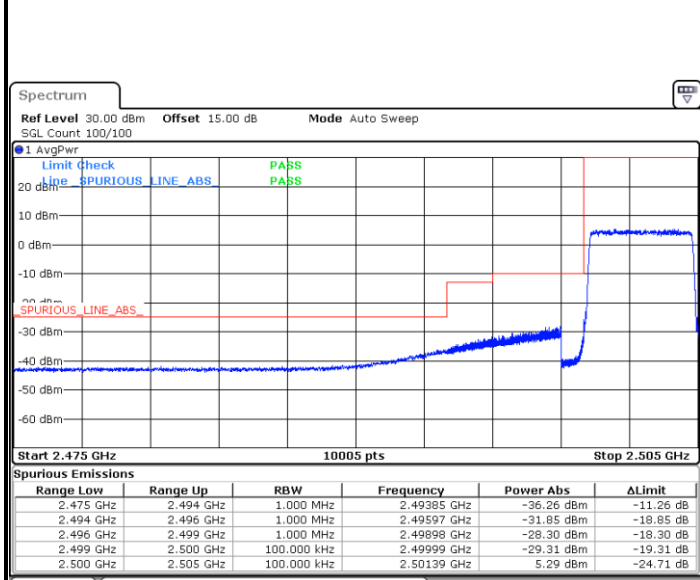
Date: 9 JUN 2023 17:15:26

Highest Band Edge / 1 RB



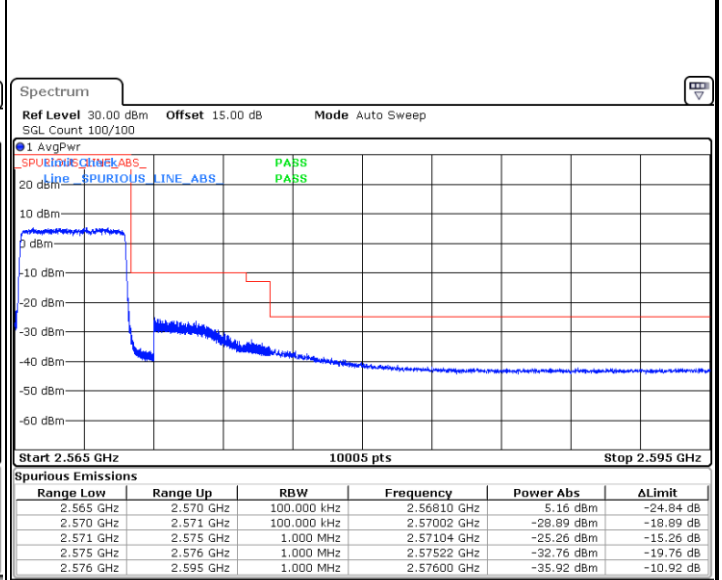
Date: 9 JUN 2023 17:18:48

Lowest Band Edge / Full RB



Date: 9 JUN 2023 17:13:45

Highest Band Edge / Full RB

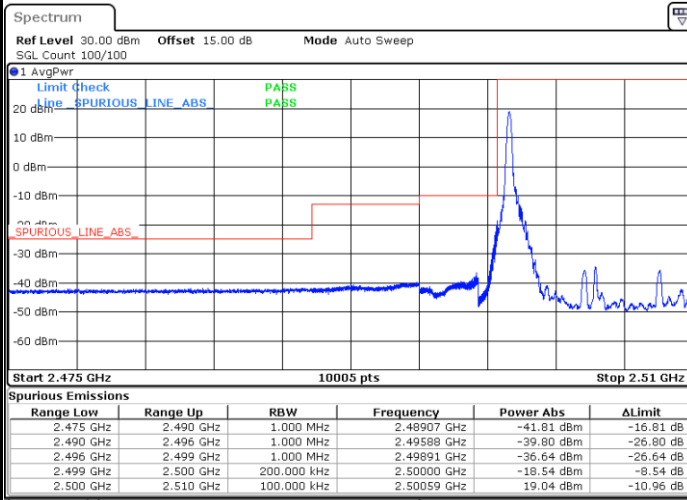


Date: 9 JUN 2023 17:17:07



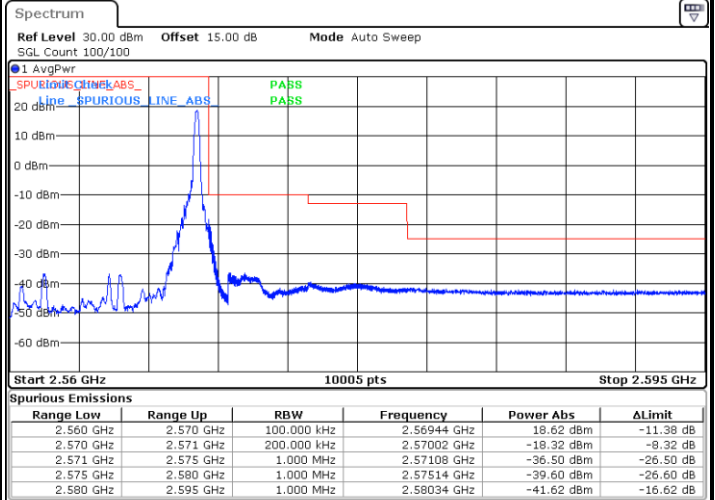
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



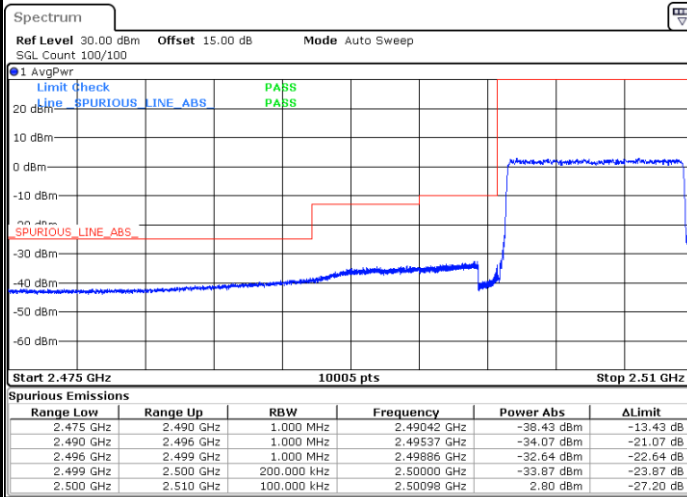
Date: 9 JUN.2023 17:25:11

Highest Band Edge / 1 RB



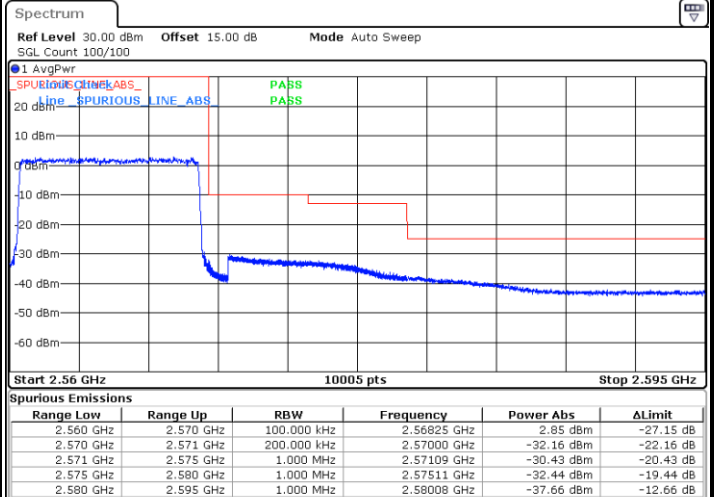
Date: 9 JUN.2023 17:28:33

Lowest Band Edge / Full RB



Date: 9 JUN.2023 17:23:30

Highest Band Edge / Full RB

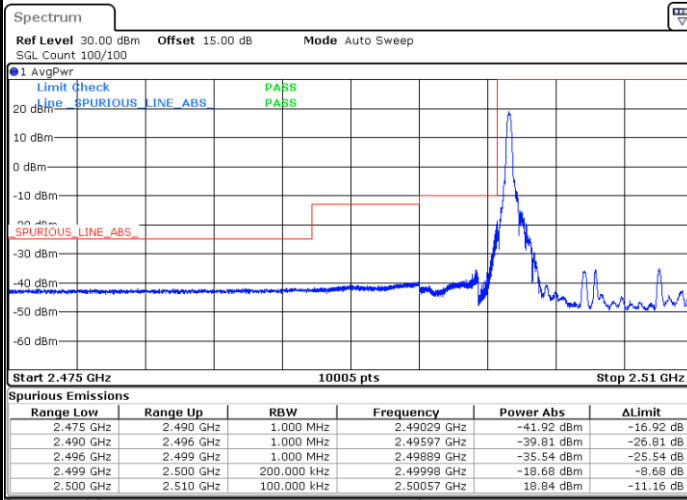


Date: 9 JUN.2023 17:26:52



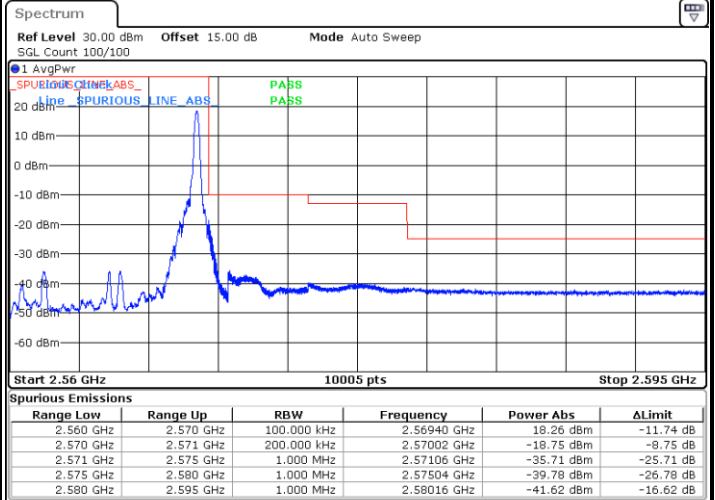
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



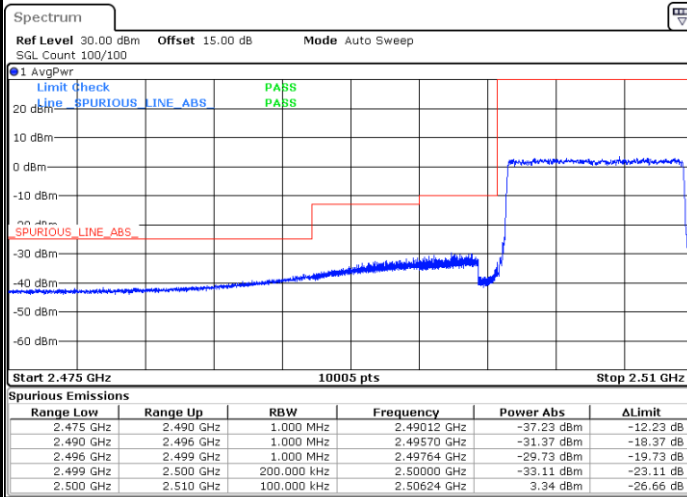
Date: 9 JUN 2023 17:25:45

Highest Band Edge / 1 RB



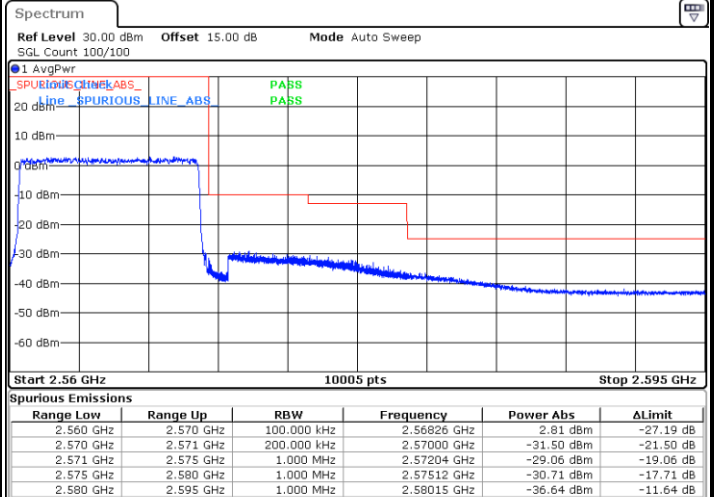
Date: 9 JUN 2023 17:29:07

Lowest Band Edge / Full RB



Date: 9 JUN 2023 17:24:04

Highest Band Edge / Full RB

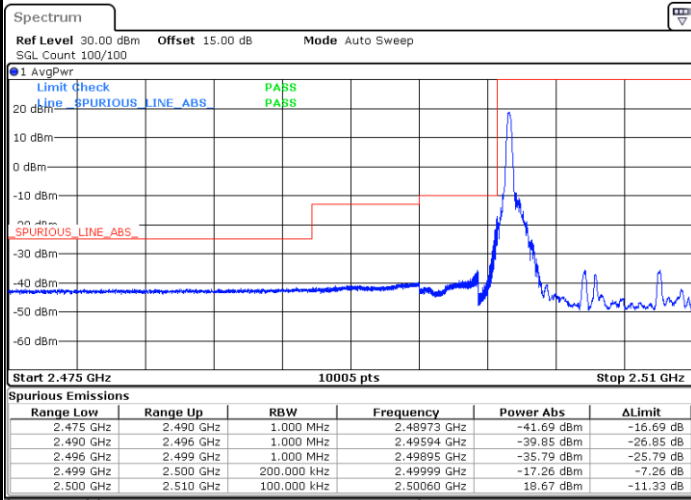


Date: 9 JUN 2023 17:27:26



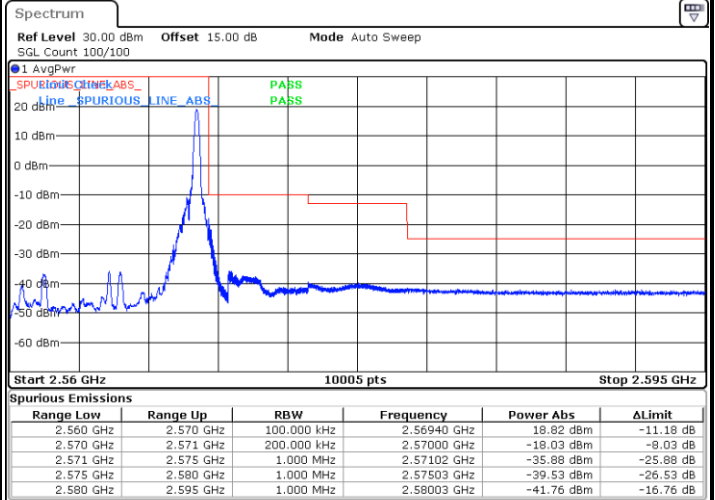
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



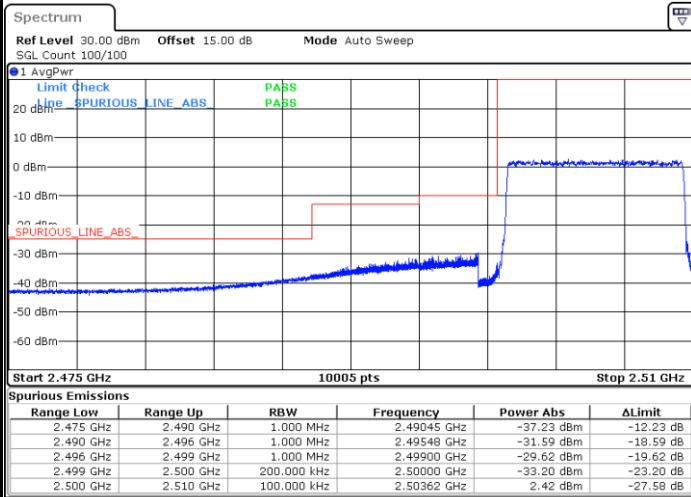
Date: 9 JUN 2023 17:26:18

Highest Band Edge / 1 RB



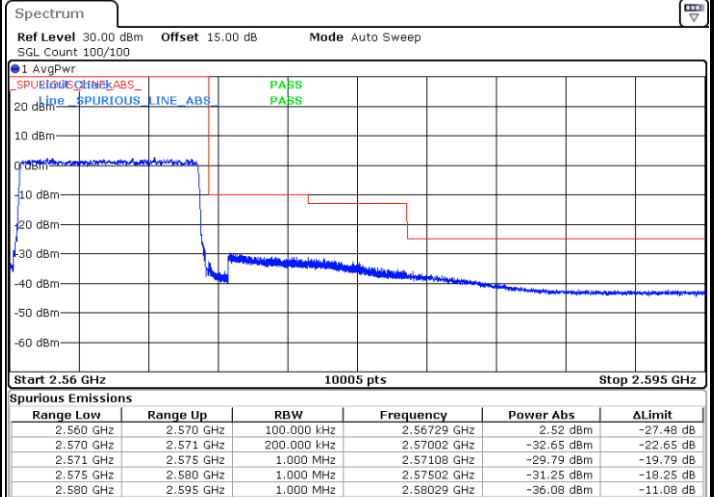
Date: 9 JUN 2023 17:29:41

Lowest Band Edge / Full RB



Date: 9 JUN 2023 17:24:38

Highest Band Edge / Full RB

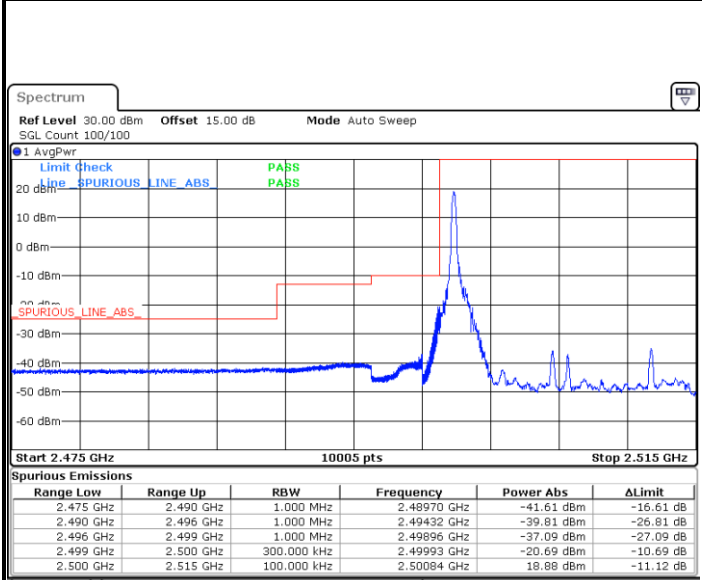


Date: 9 JUN 2023 17:28:00



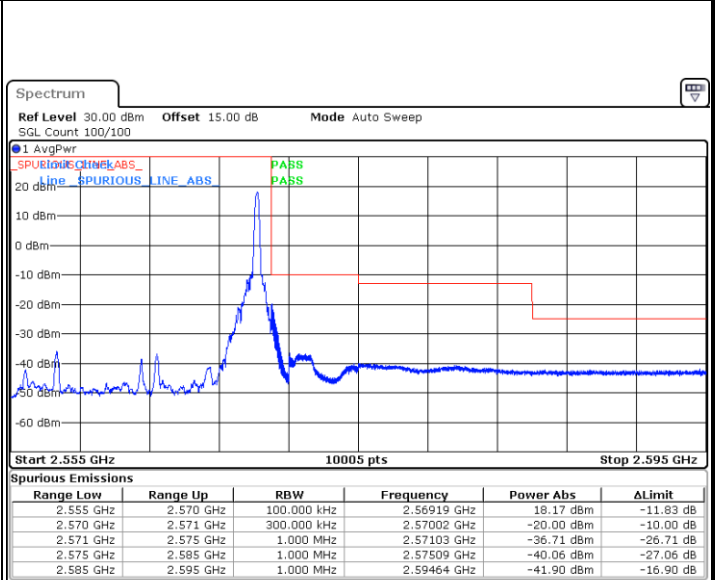
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



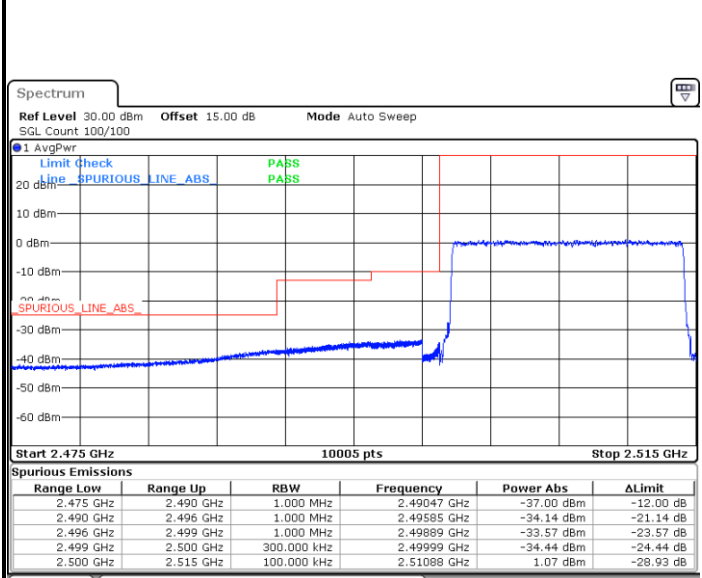
Date: 9 JUN 2023 17:35:45

Highest Band Edge / 1 RB



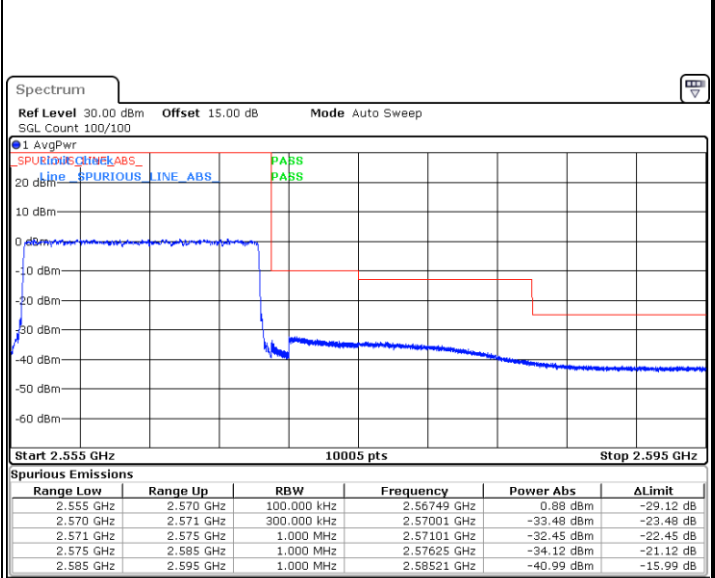
Date: 9 JUN 2023 17:39:08

Lowest Band Edge / Full RB



Date: 9 JUN 2023 17:34:03

Highest Band Edge / Full RB

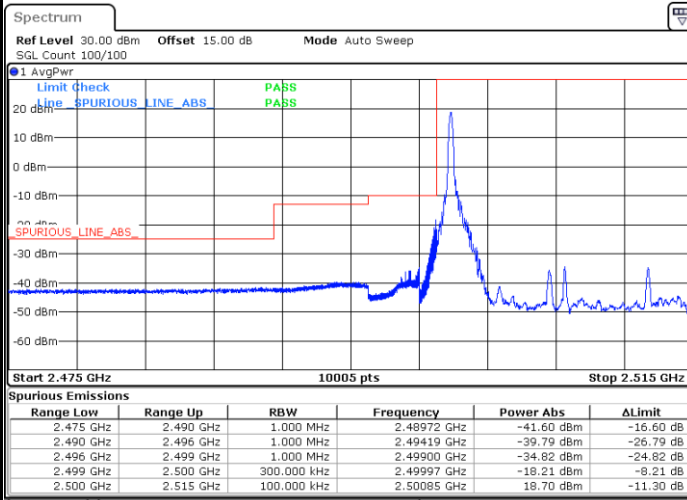


Date: 9 JUN 2023 17:37:27



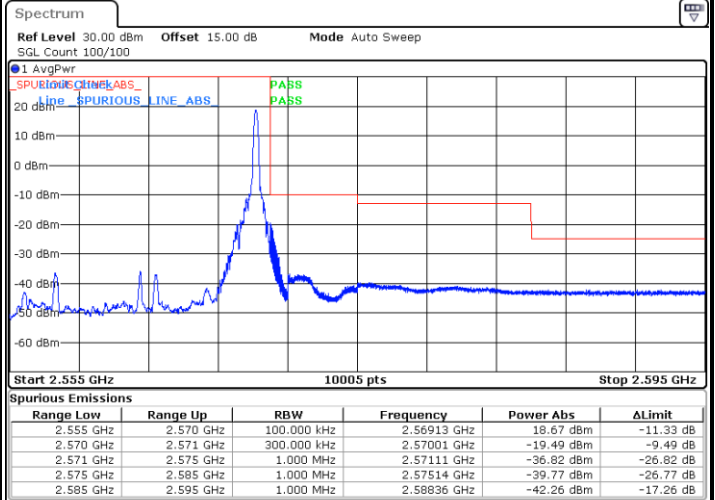
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



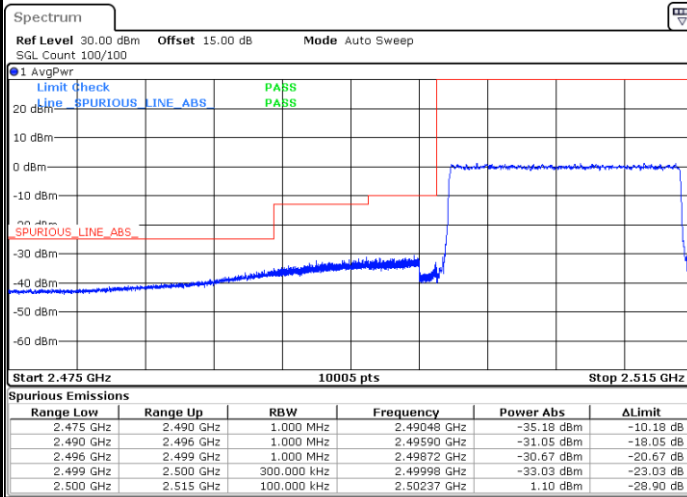
Date: 9 JUN, 2023 17:36:19

Highest Band Edge / 1 RB



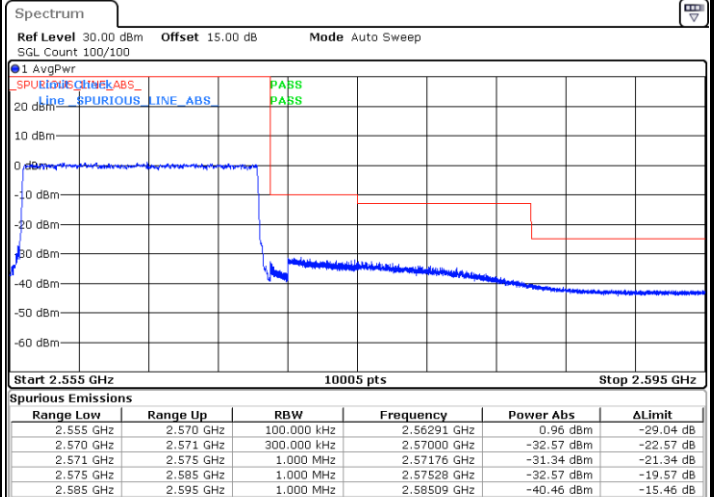
Date: 9 JUN, 2023 17:39:42

Lowest Band Edge / Full RB



Date: 9 JUN, 2023 17:34:37

Highest Band Edge / Full RB

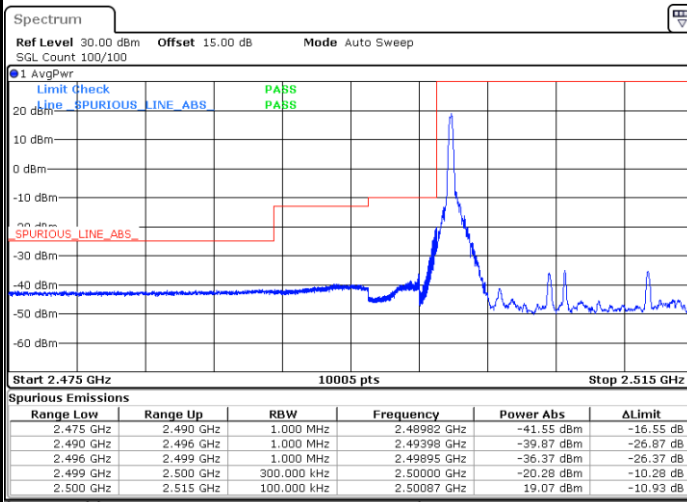


Date: 9 JUN, 2023 17:38:01



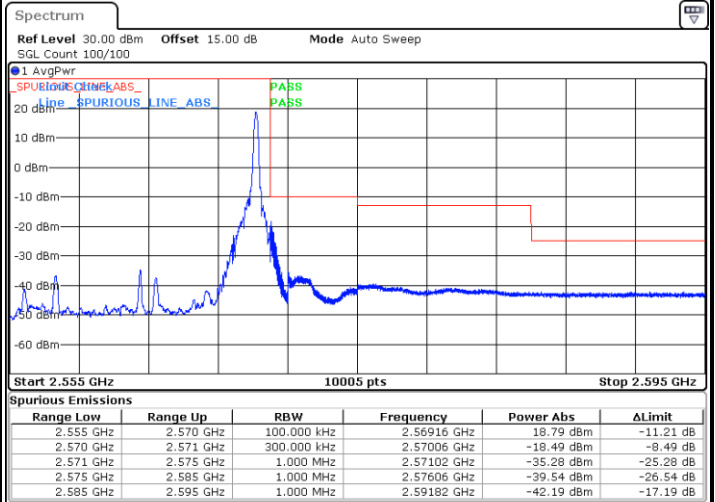
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



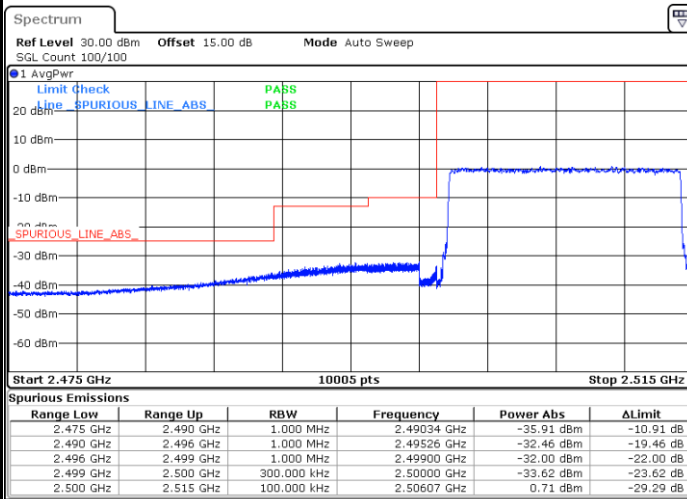
Date: 9 JUN.2023 17:36:53

Highest Band Edge / 1 RB



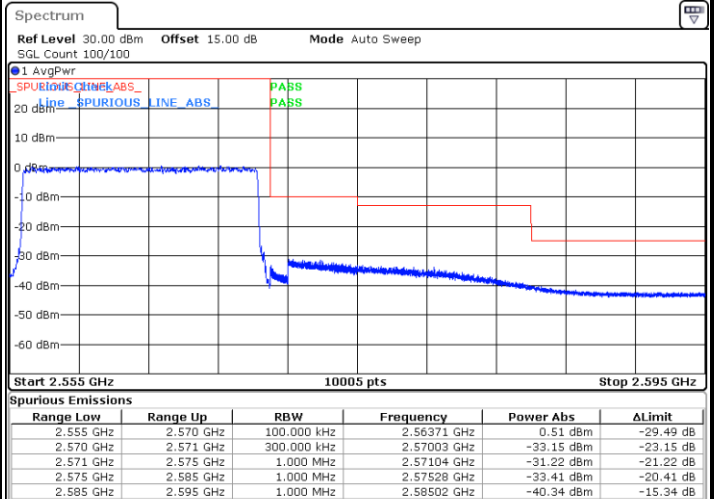
Date: 9 JUN.2023 17:40:16

Lowest Band Edge / Full RB



Date: 9 JUN.2023 17:35:11

Highest Band Edge / Full RB



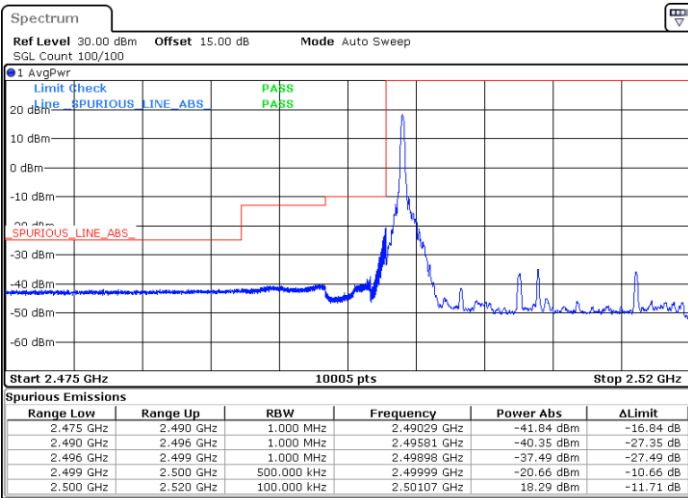
Date: 9 JUN.2023 17:38:34



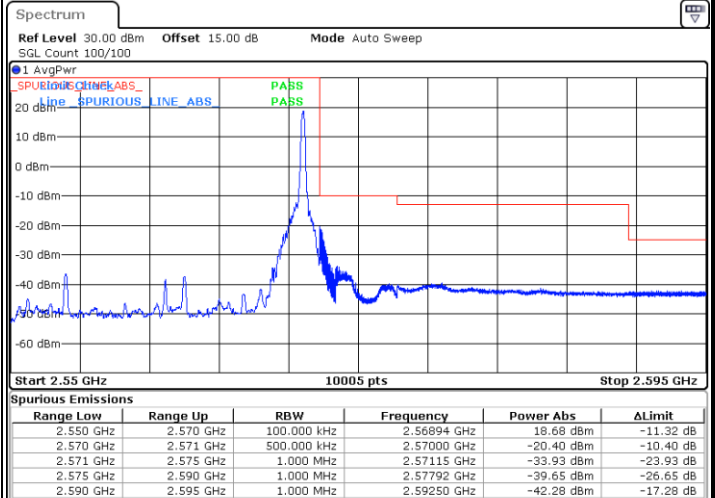
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



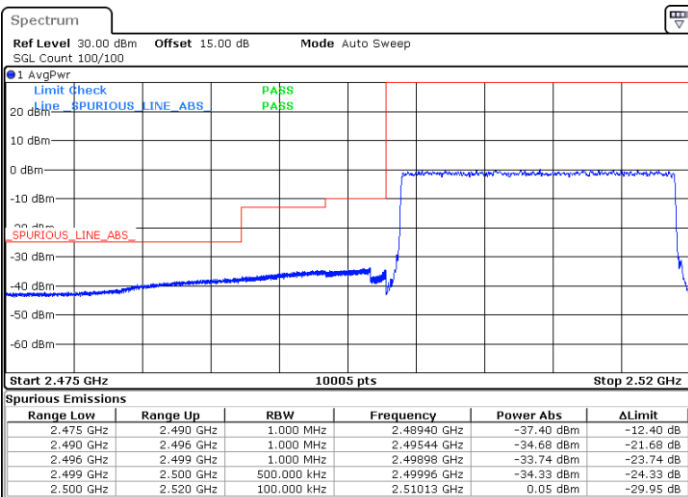
Date: 9 JUN, 2023 17:45:40



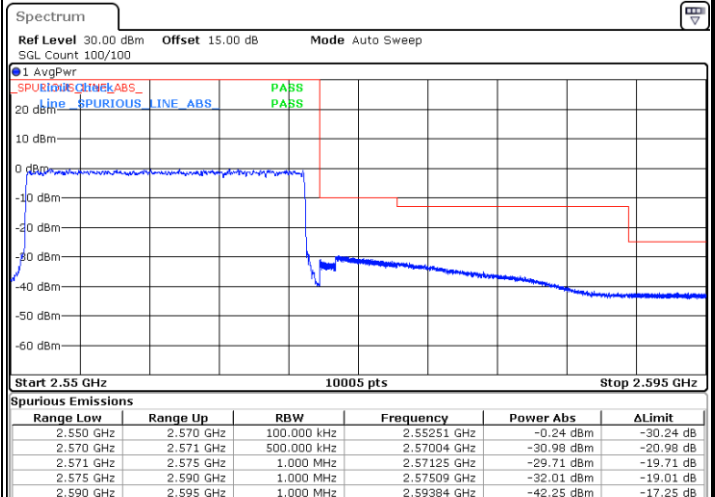
Date: 9 JUN, 2023 17:49:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN, 2023 17:43:59

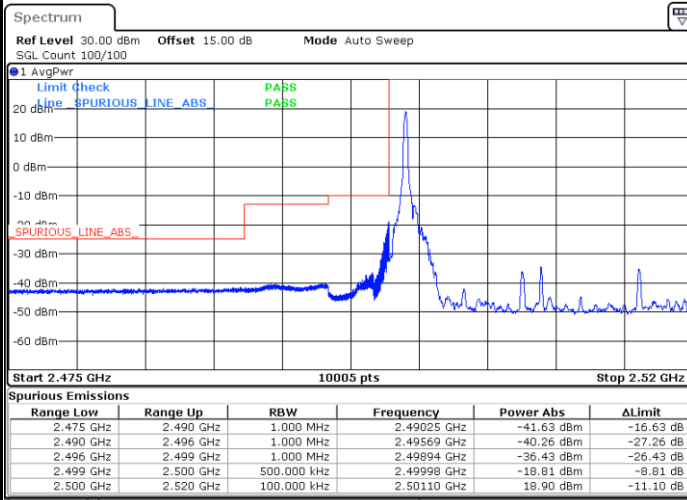


Date: 9 JUN, 2023 17:47:22



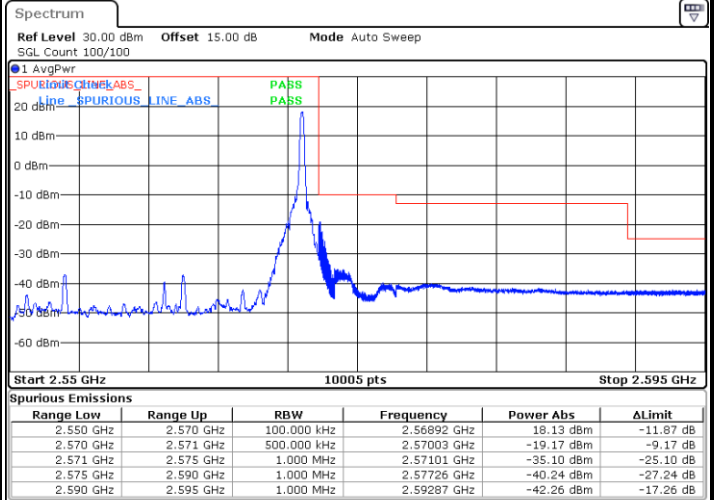
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



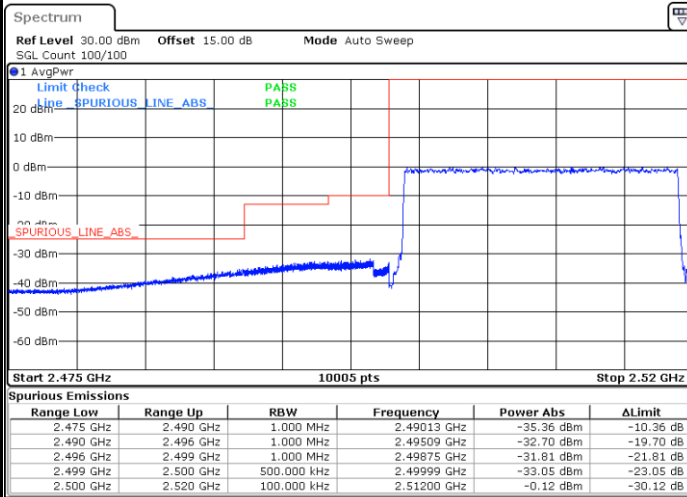
Date: 9 JUN.2023 17:46:14

Highest Band Edge / 1RB



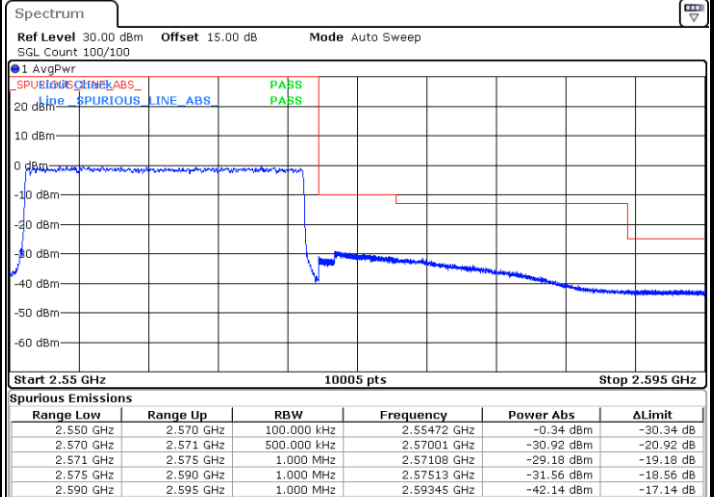
Date: 9 JUN.2023 17:49:37

Lowest Band Edge / Full RB



Date: 9 JUN.2023 17:44:33

Highest Band Edge / Full RB

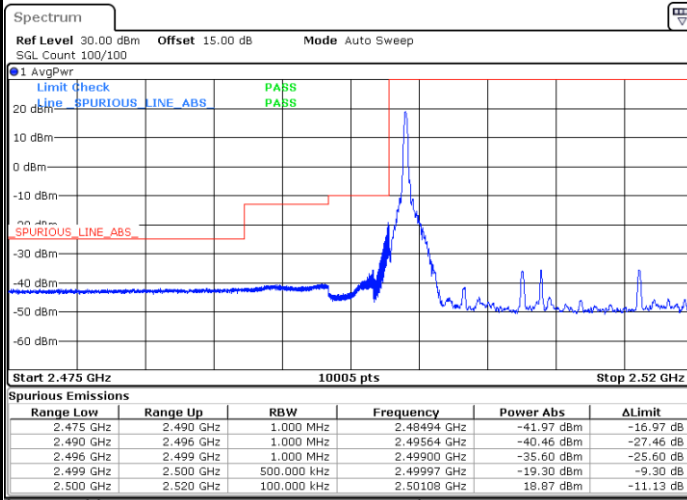


Date: 9 JUN.2023 17:47:56



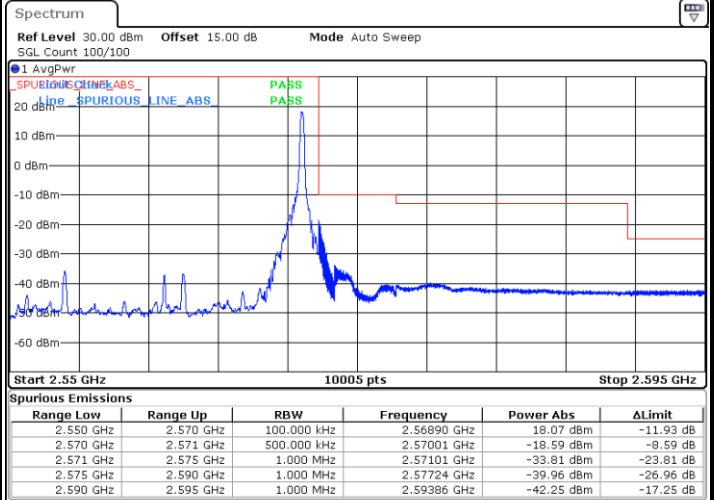
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



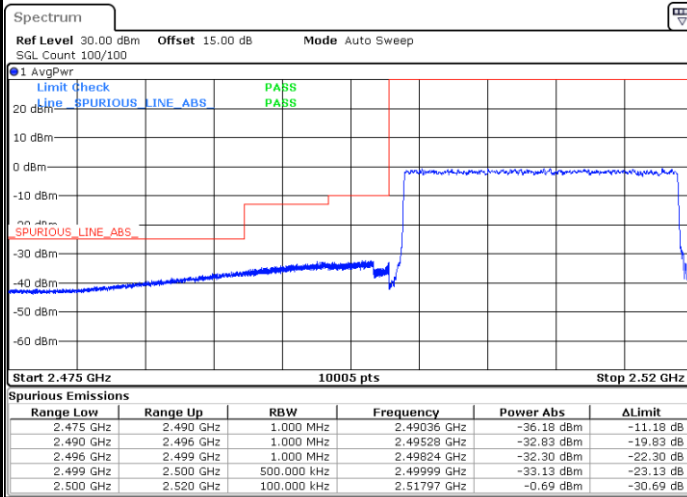
Date: 9 JUN.2023 17:46:48

Highest Band Edge / 1 RB



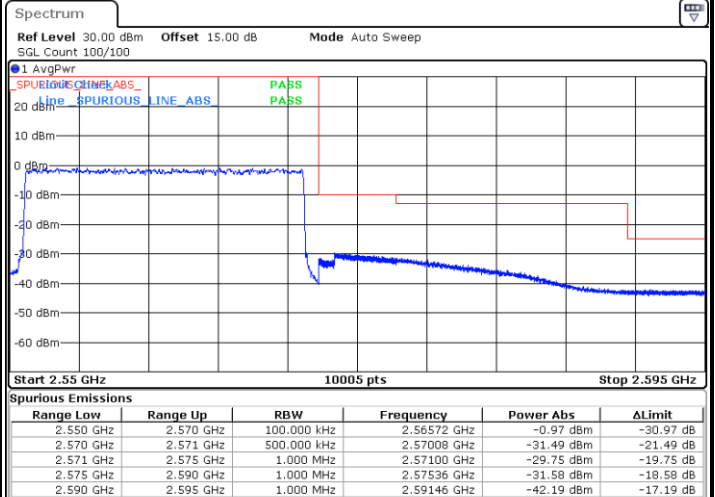
Date: 9 JUN.2023 17:50:11

Lowest Band Edge / Full RB



Date: 9 JUN.2023 17:45:06

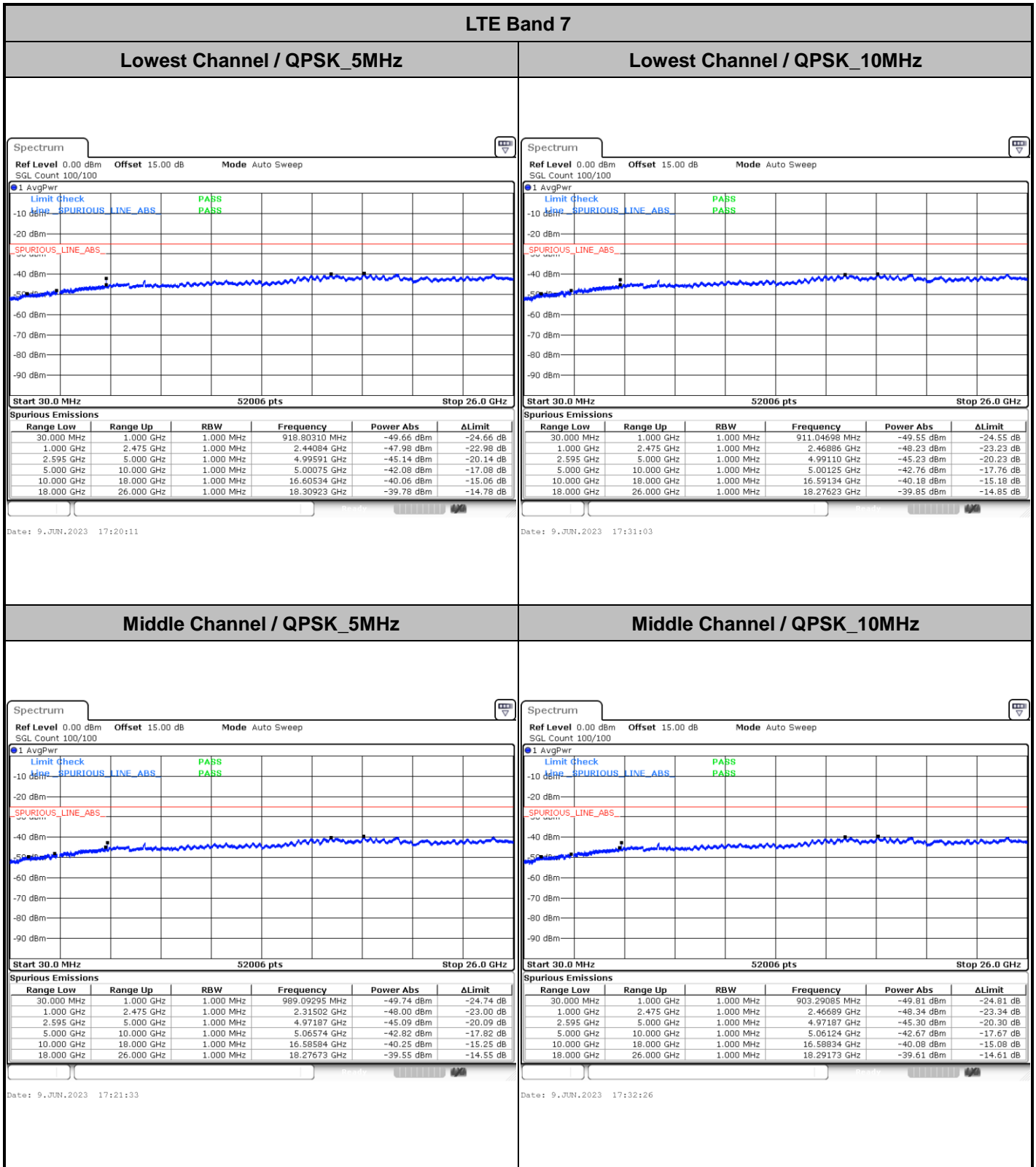
Highest Band Edge / Full RB



Date: 9 JUN.2023 17:48:29



Conducted Spurious Emission

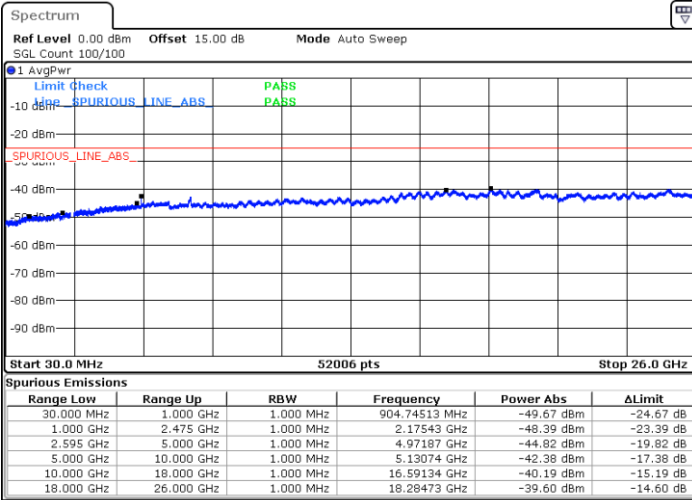




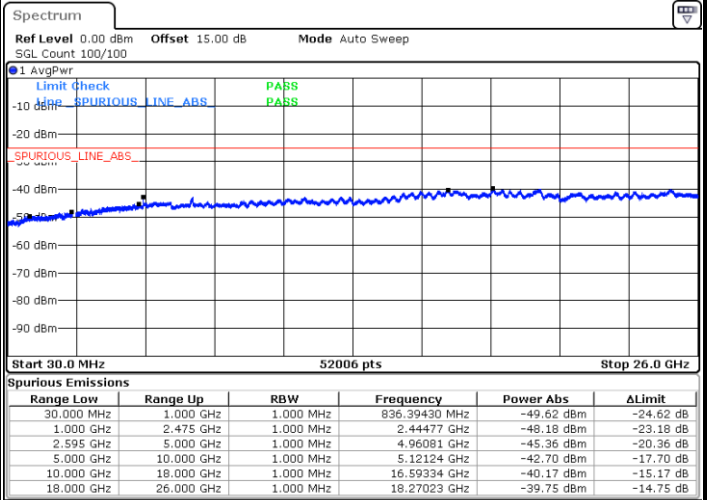
LTE Band 7

Highest Channel / QPSK_5MHz

Highest Channel / QPSK_10MHz



Date: 9 JUN 2023 17:22:55



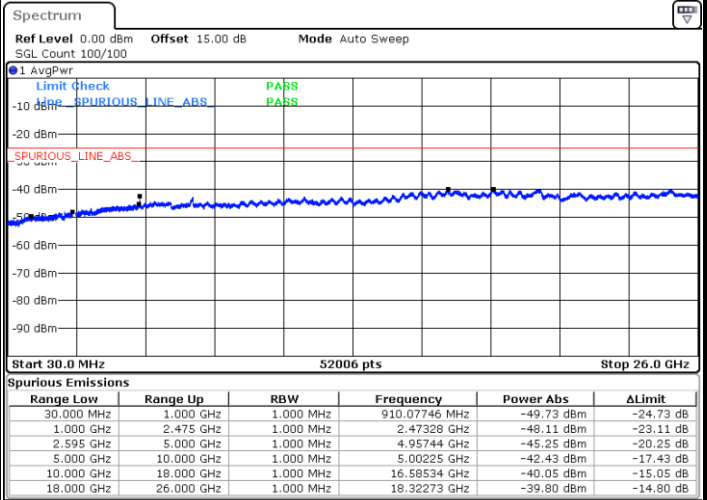
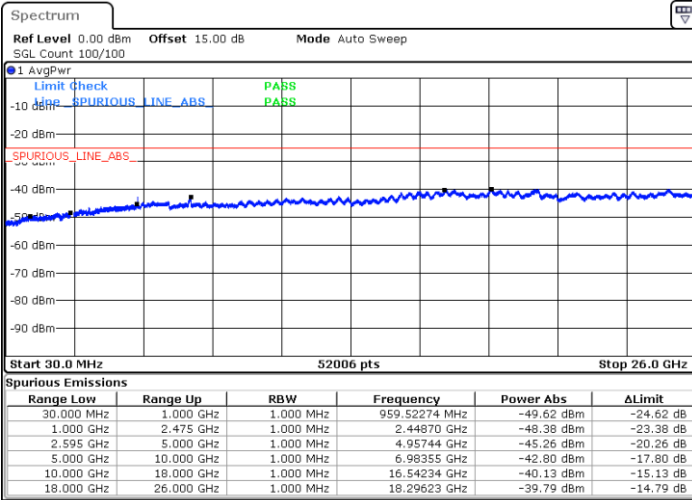
Date: 9 JUN 2023 17:33:28



LTE Band 7

Lowest Channel / QPSK_15MHz

Lowest Channel / QPSK_20MHz

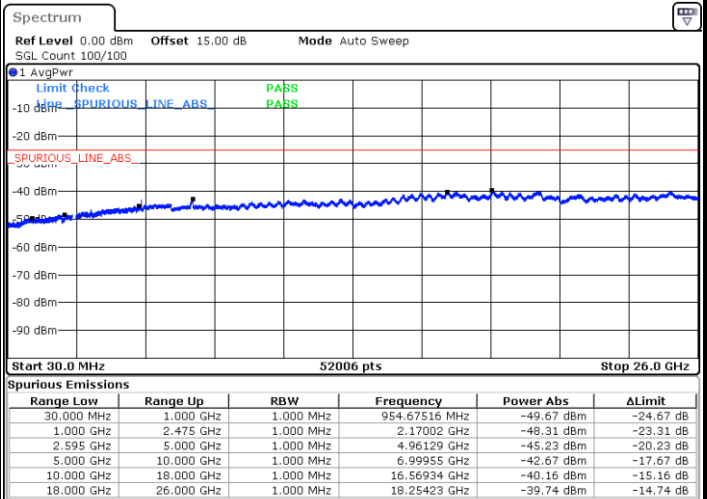
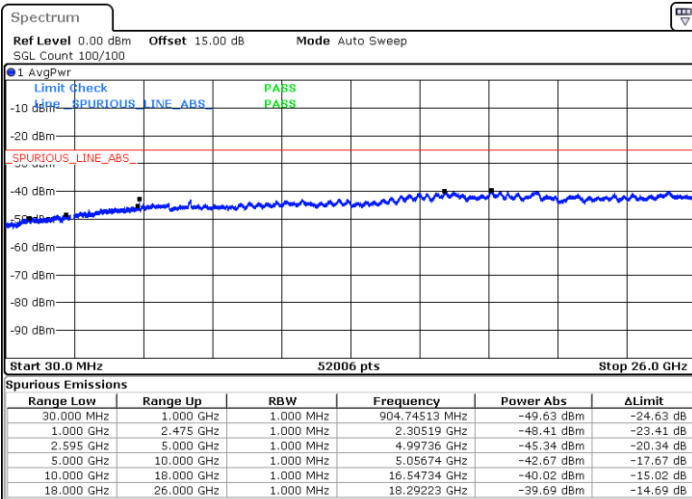


Date: 9 JUN.2023 17:41:19

Date: 9 JUN.2023 17:51:13

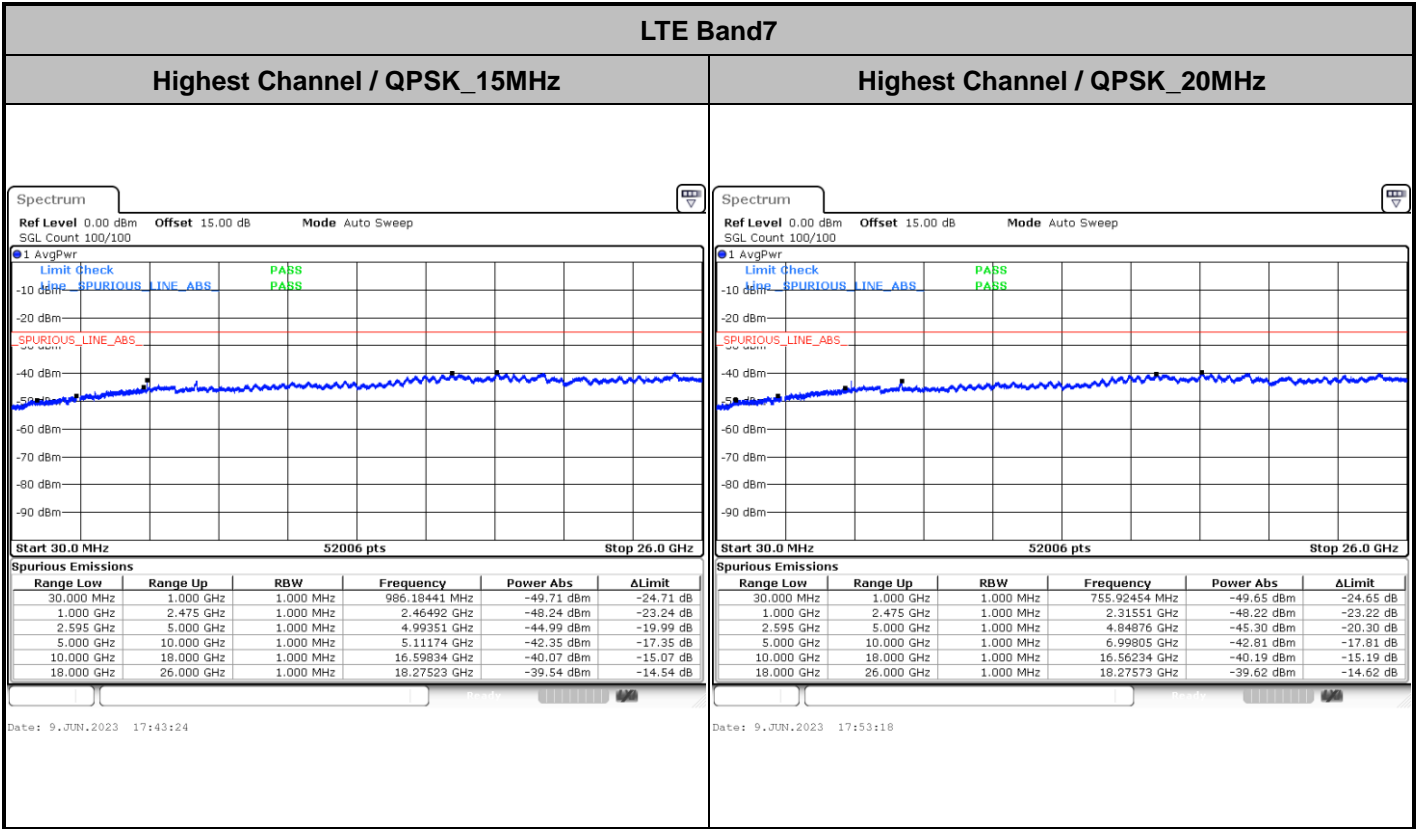
Middle Channel / QPSK_15MHz

Middle Channel / QPSK_20MHz



Date: 9 JUN.2023 17:42:21

Date: 9 JUN.2023 17:52:16





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	0.0001	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

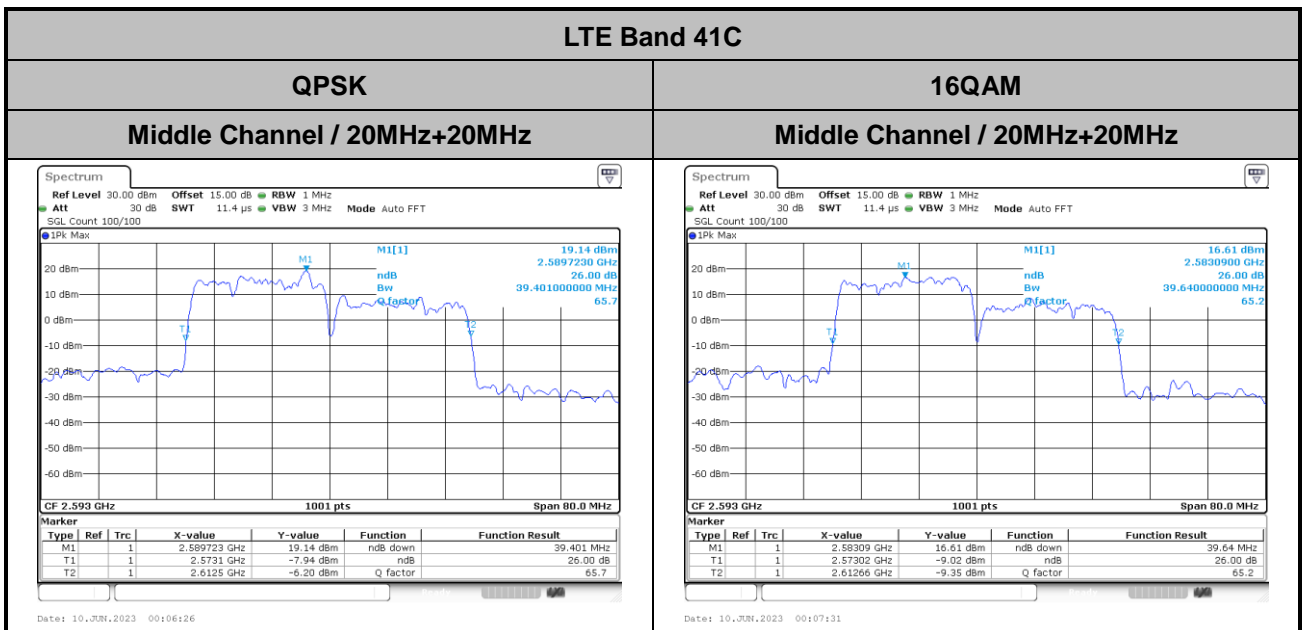
1. Normal Voltage =3.88 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.47 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41C

26dB Bandwidth

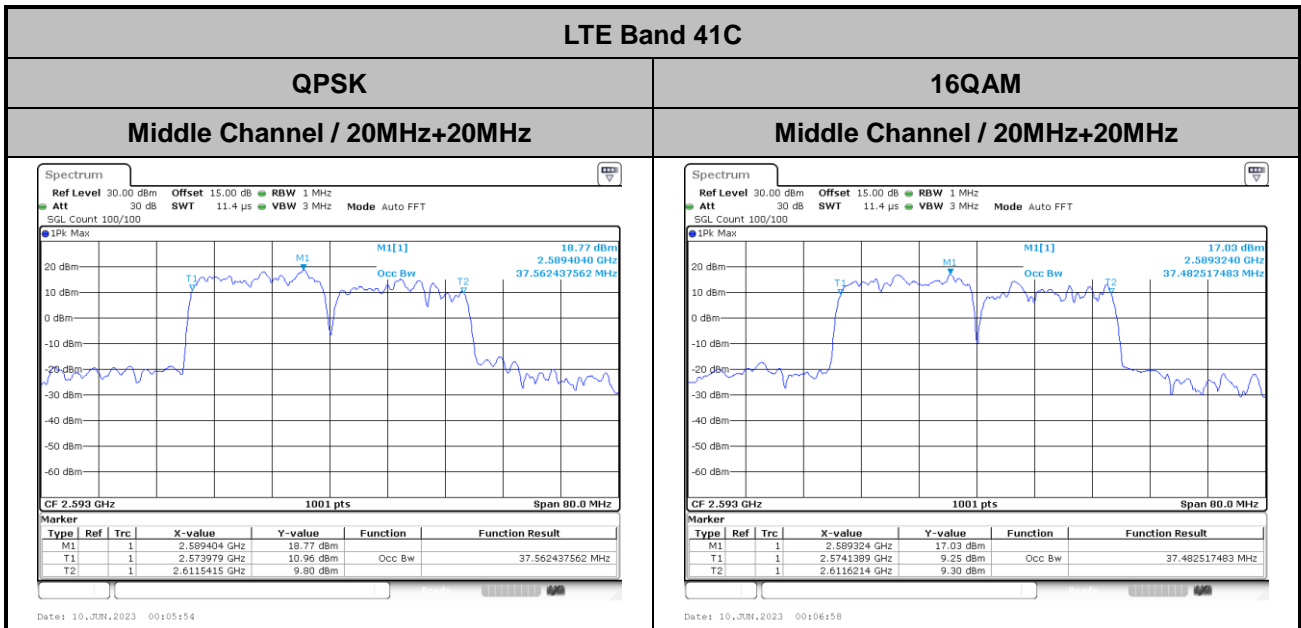
Mode	LTE Band 41C : 26dB BW(MHz)	
Modulation	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.40	39.64





Occupied Bandwidth

Mode	LTE Band 41C : 99%OBW(MHz)	
Modulation	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.56	37.48





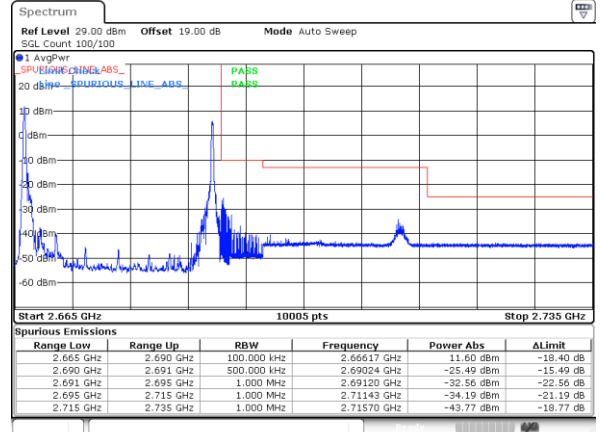
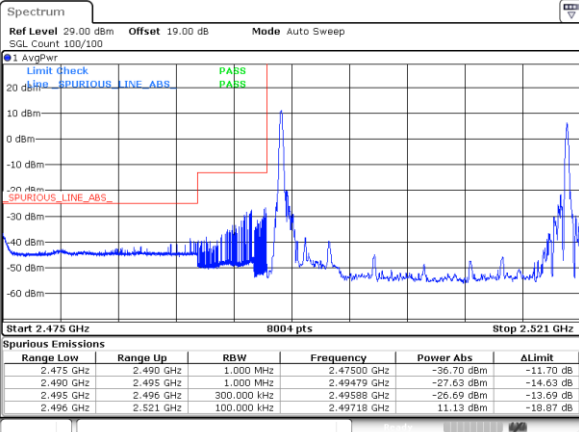
Conducted Band Edge

LTE Band 41C / 5MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Highest Band Edge / 1RB0 and 1RB99

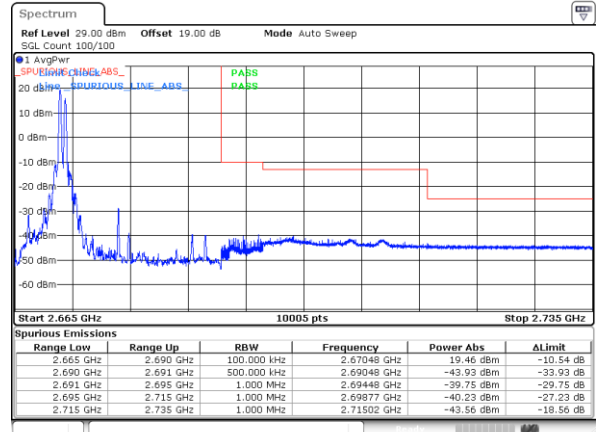
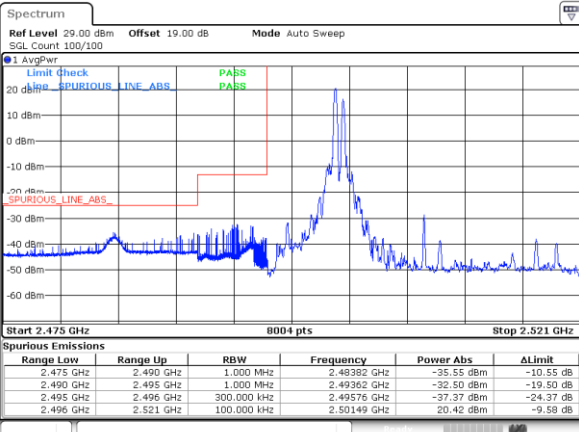


Date: 9 JUN 2023 19:00:06

Date: 9 JUN 2023 19:11:13

Lowest Band Edge / 1RB24 and 1RB0

Highest Band Edge / 1RB24 and 1RB0

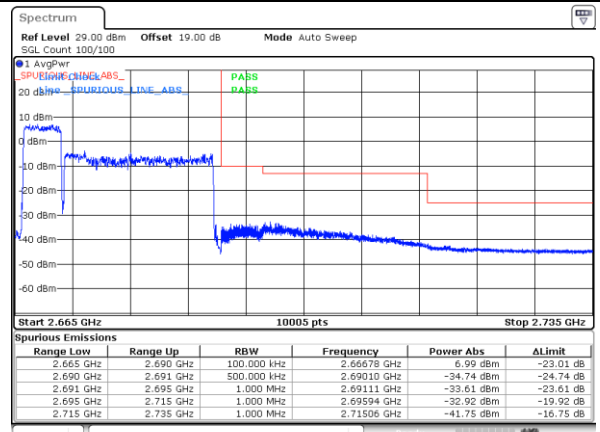
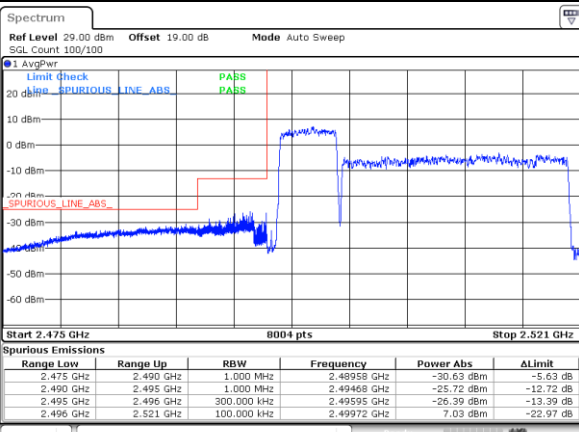


Date: 9 JUN 2023 19:02:31

Date: 9 JUN 2023 19:13:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN 2023 18:57:41

Date: 9 JUN 2023 19:08:49

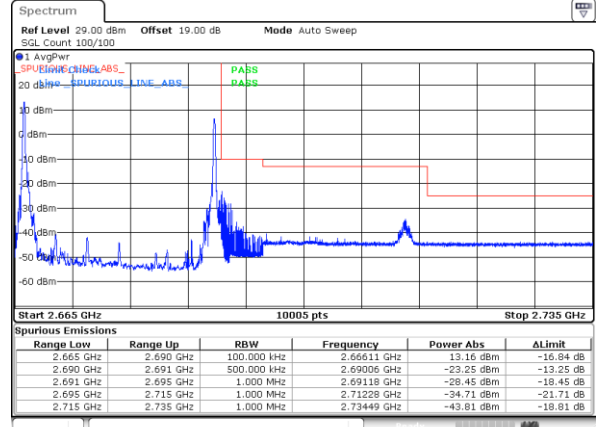
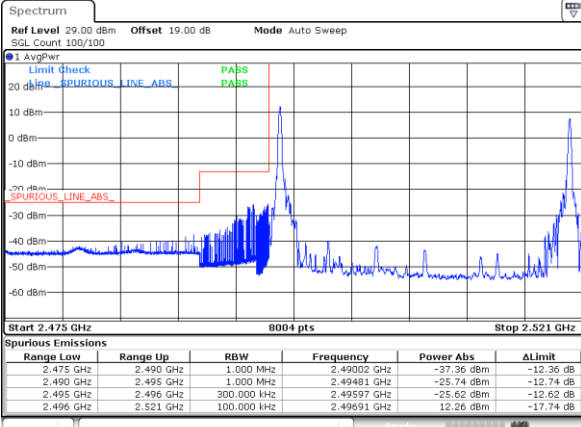


LTE Band 41C / 10MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

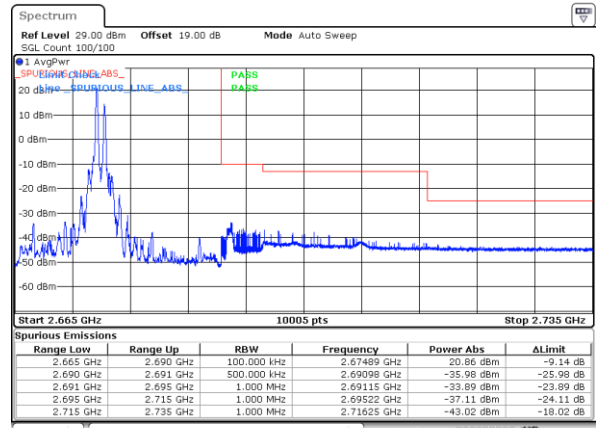
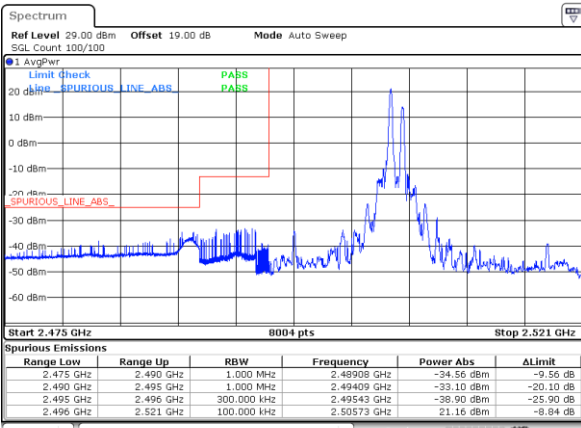


Date: 9 JUN 2023 19:48:06

Date: 9 JUN 2023 19:56:25

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

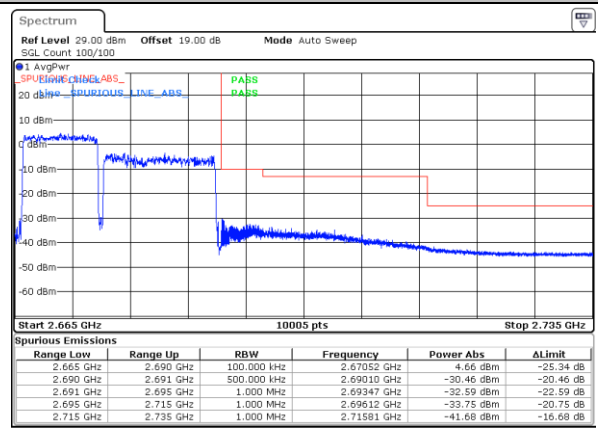
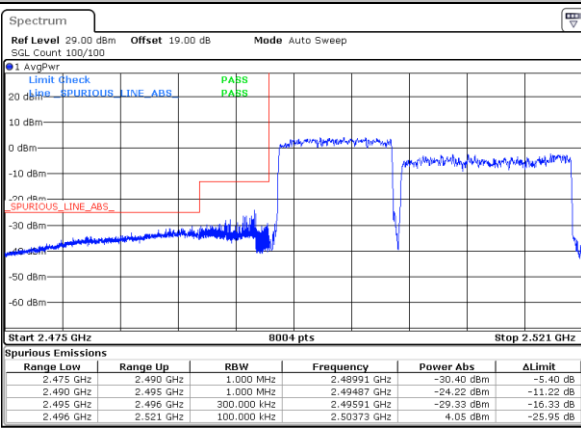


Date: 9 JUN 2023 19:50:32

Date: 9 JUN 2023 19:58:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN 2023 19:45:40

Date: 9 JUN 2023 19:54:00

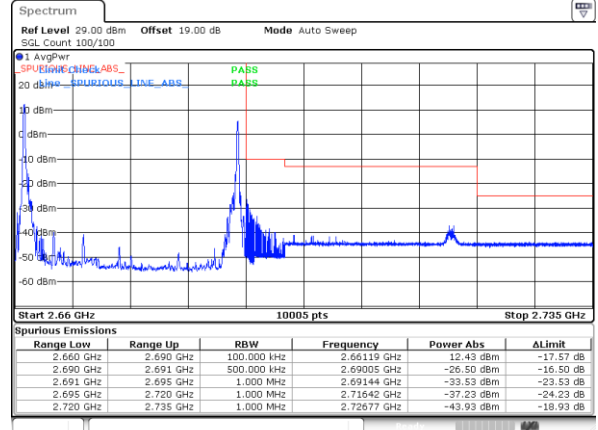
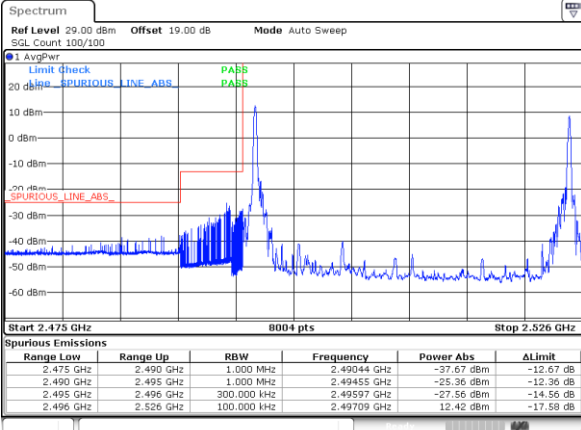


LTE Band 41C / 10MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Highest Band Edge / 1RB0 and 1RB99

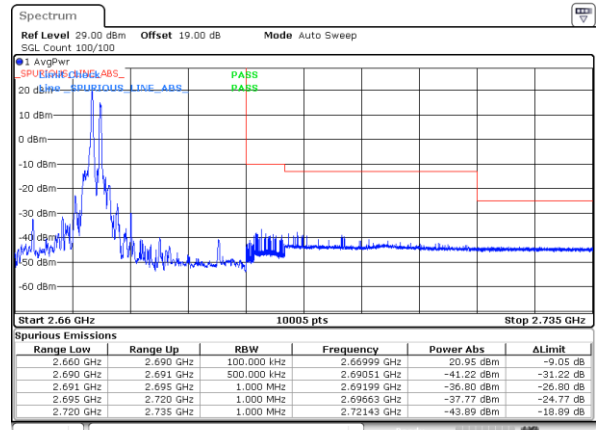
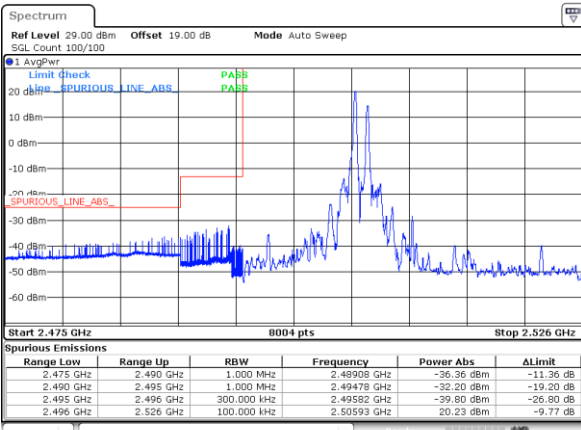


Date: 9 JUN 2023 20:40:06

Date: 9 JUN 2023 20:48:27

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

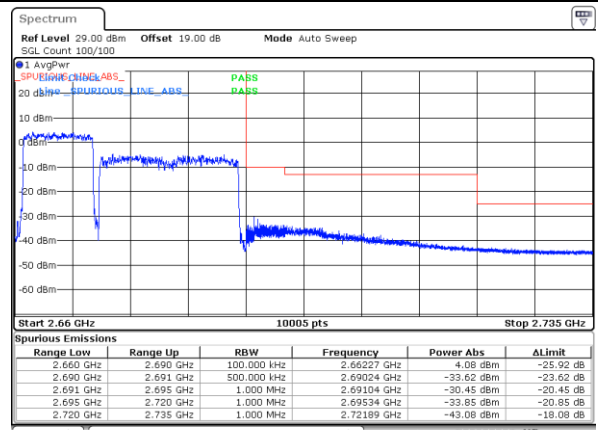
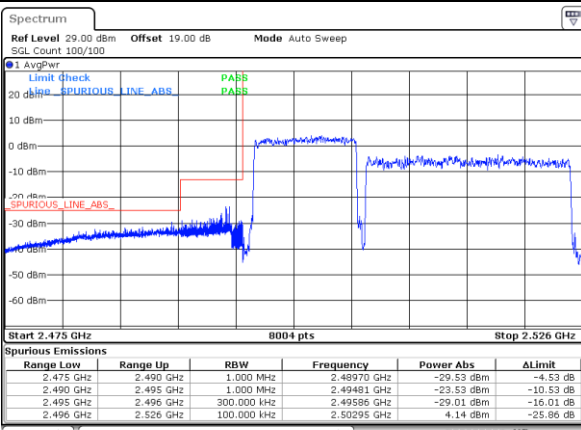


Date: 9 JUN 2023 20:42:33

Date: 9 JUN 2023 20:50:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN 2023 20:37:38

Date: 9 JUN 2023 20:46:02

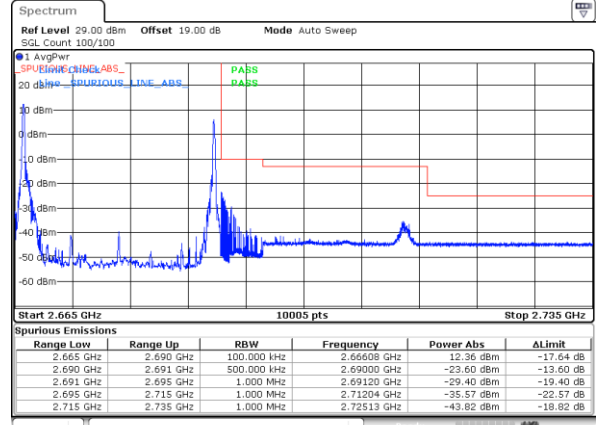
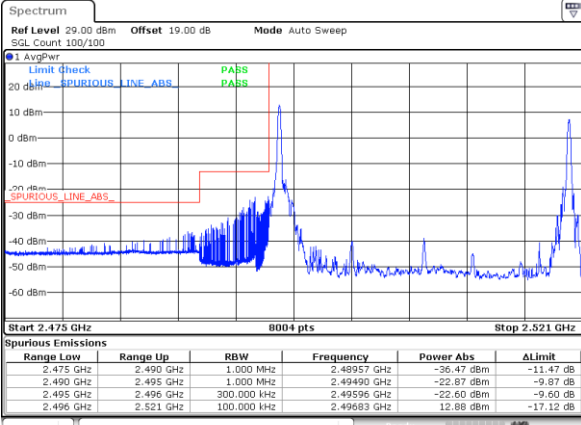


LTE Band 41C / 15MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

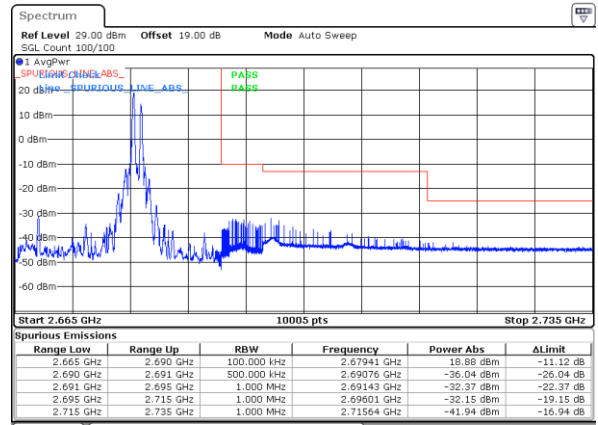
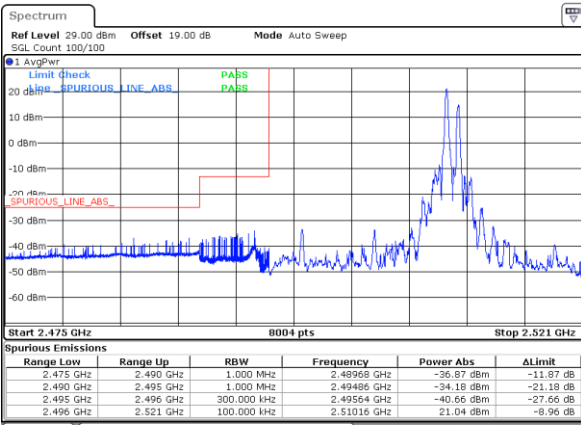


Date: 9 JUN 2023 20:11:08

Date: 9 JUN 2023 20:21:05

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

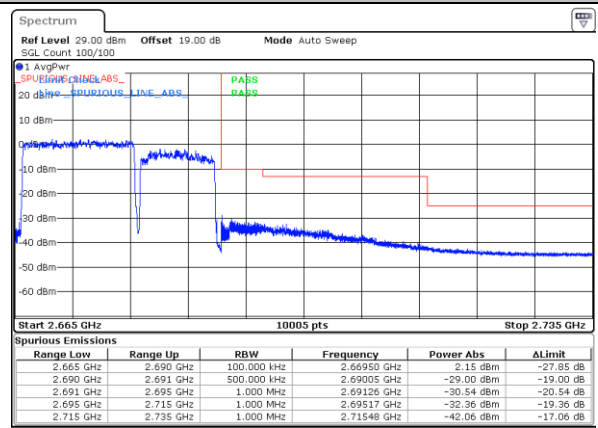
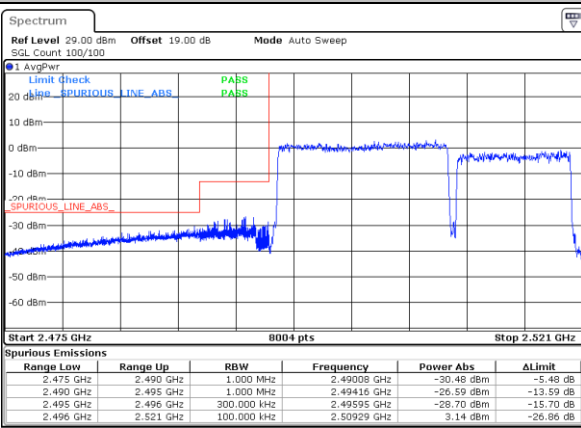


Date: 9 JUN 2023 20:13:34

Date: 9 JUN 2023 20:23:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUN 2023 20:08:43

Date: 9 JUN 2023 20:18:41