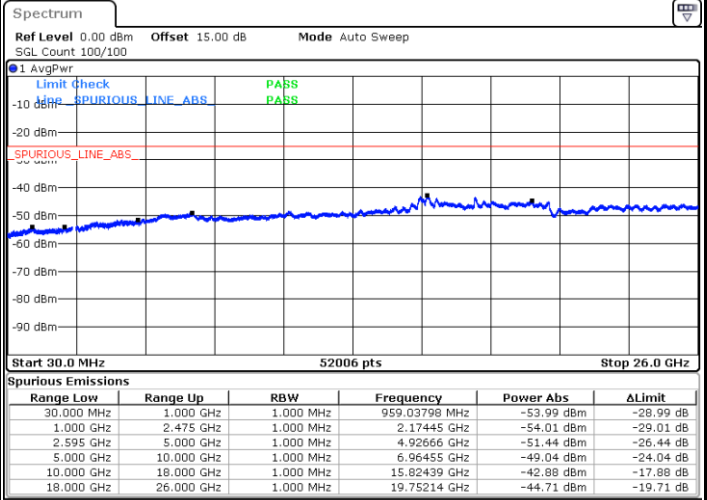
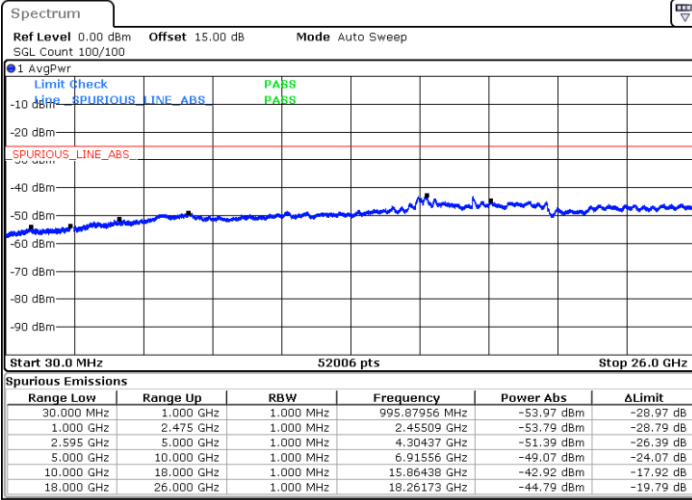




LTE Band 7 / 20MHz

Lowest Channel / QPSK

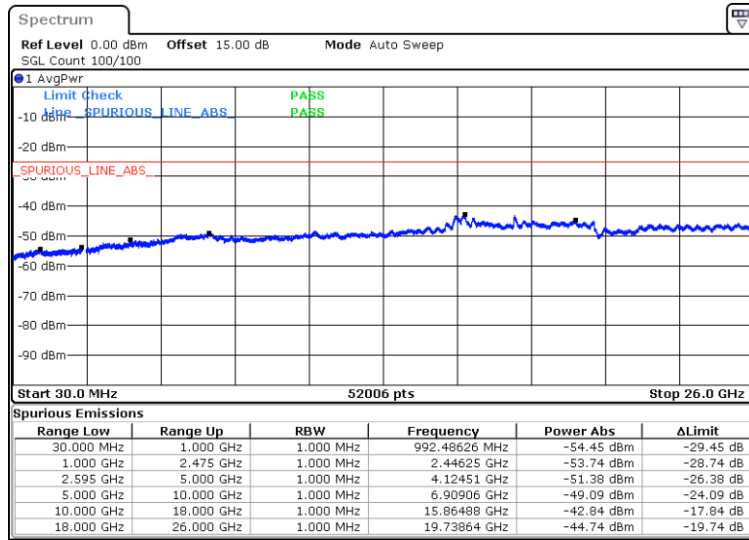
Middle Channel / QPSK



Date: 15.JAN.2025 10:48:11

Date: 15.JAN.2025 10:49:20

Highest Channel / QPSK



Date: 15.JAN.2025 10:56:46



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	3.3	PASS
40	Normal Voltage	2.6	
30	Normal Voltage	3.2	
20(Ref.)	Normal Voltage	2.7	
10	Normal Voltage	3.5	
0	Normal Voltage	2.1	
-10	Normal Voltage	3.3	
-20	Normal Voltage	2.5	
-30	Normal Voltage	3.6	
20	Maximum Voltage	1.8	
20	Normal Voltage	2.7	
20	Battery End Point	2.5	

Note:

1. Normal Voltage = 3.91 V.; Battery End Point (BEP) = 3.6 V.; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$|\text{MAX}(\Delta f)| = 3.6\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2500.262196	$\geq 2500 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2569.737804	$\leq 2570 \text{ MHz}$	



LTE Band 41 (Main PA)

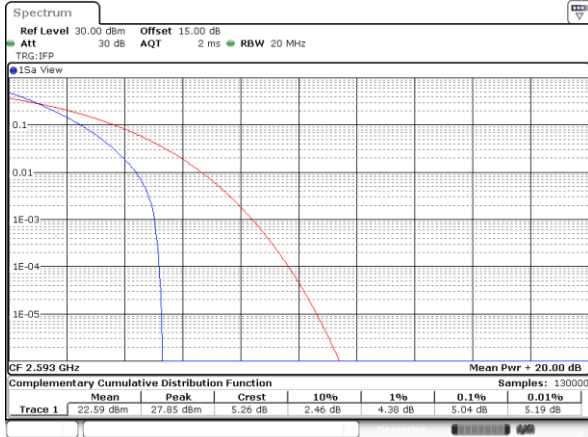
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.04	6.03	6.46	PASS



LTE Band 41 / 20MHz / QPSK

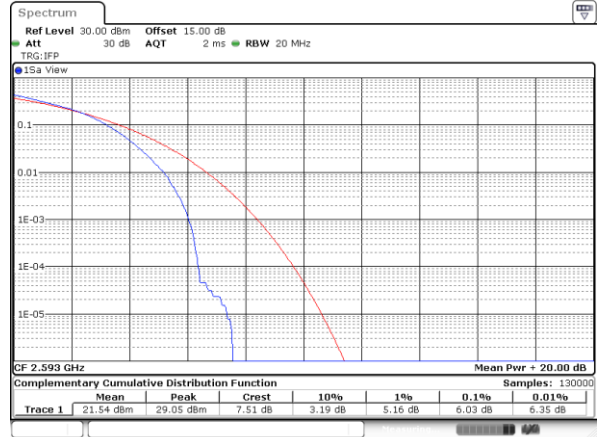
Middle Channel / Full RB



Date: 20_JAN_2025 16:03:18

LTE Band 41 / 20MHz / 16QAM

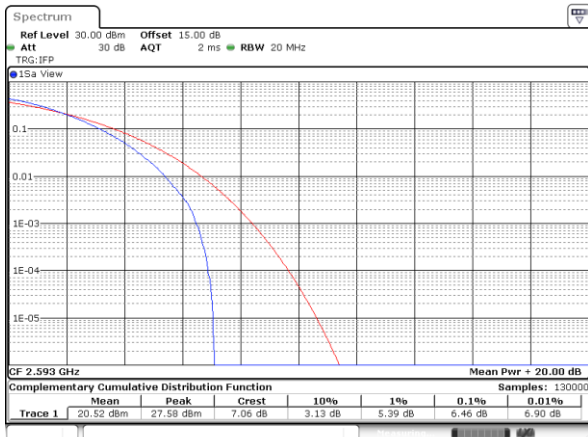
Middle Channel / Full RB



Date: 20_JAN_2025 16:03:45

LTE Band 41 / 20MHz / 64QAM

Middle Channel / Full RB



Date: 20_JAN_2025 16:04:12



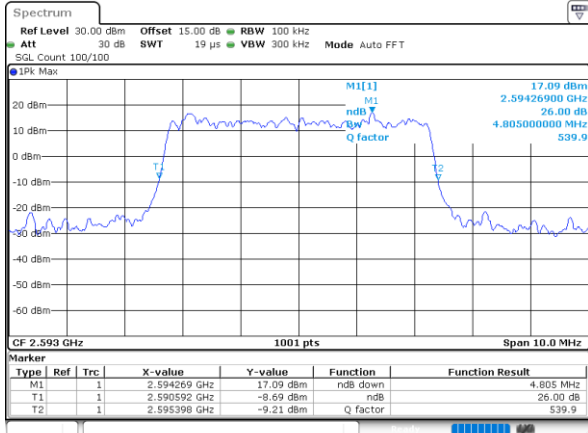
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.81	4.81	9.63	9.61	14.27	15.08	18.90	18.70



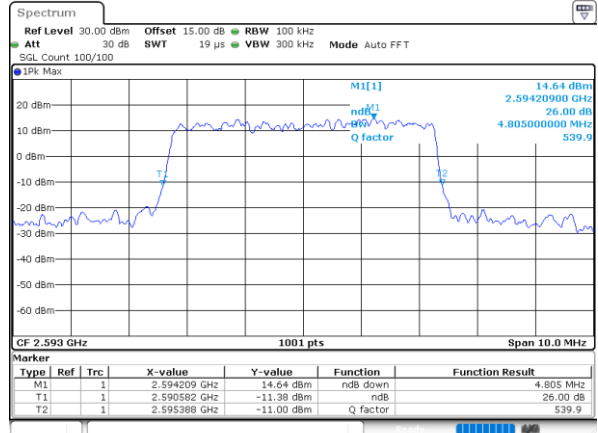
LTE Band 41

Middle Channel / 5MHz / QPSK



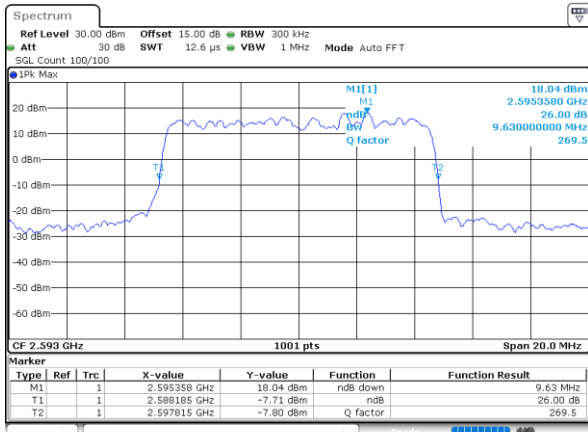
Date: 20_JAN_2025 15:11:11

Middle Channel / 5MHz / 16QAM



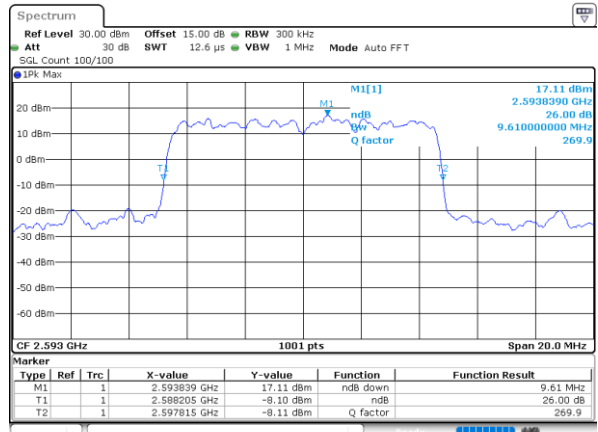
Date: 20_JAN_2025 15:11:51

Middle Channel / 10MHz / QPSK



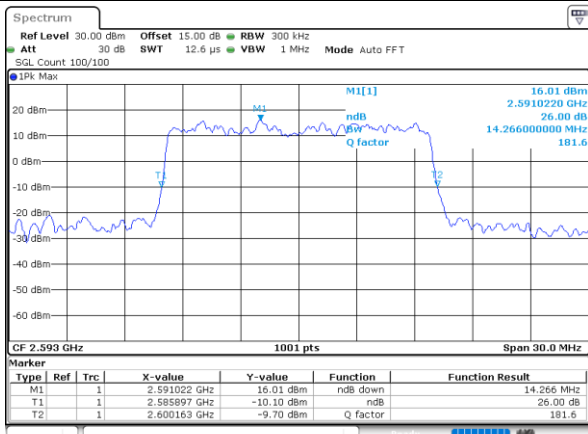
Date: 20_JAN_2025 15:28:44

Middle Channel / 10MHz / 16QAM



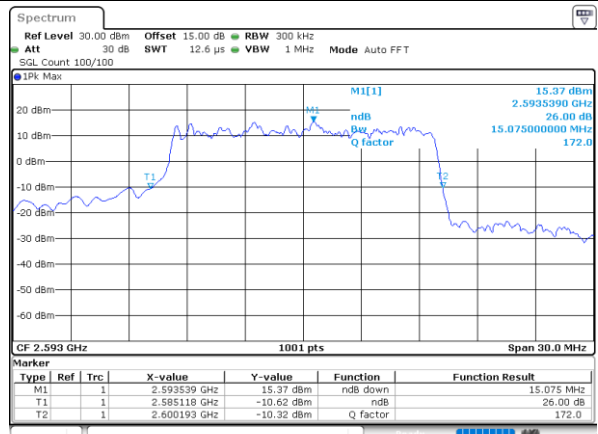
Date: 20_JAN_2025 15:29:24

Middle Channel / 15MHz / QPSK



Date: 20_JAN_2025 15:45:30

Middle Channel / 15MHz / 16QAM



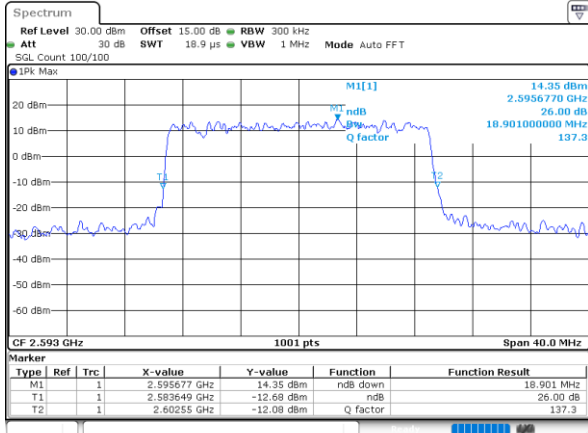
Date: 20_JAN_2025 15:46:10



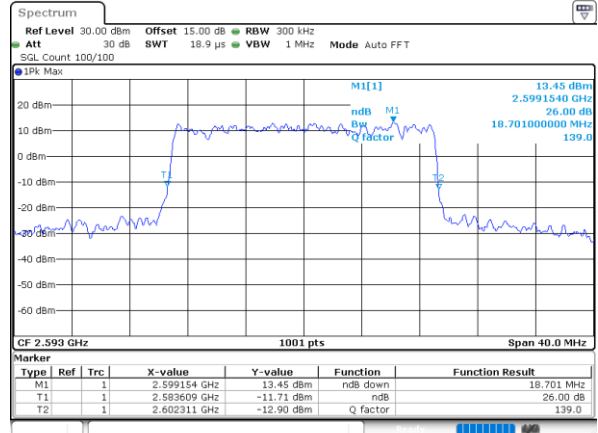
LTE Band 41

Middle Channel / 20MHz / QPSK

Middle Channel / 20MHz / 16QAM



Date: 20_JAN_2025 16:02:12



Date: 20_JAN_2025 16:02:52



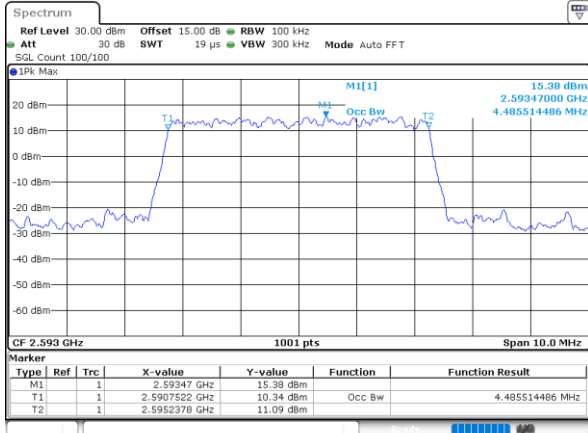
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.46	8.97	9.03	13.43	13.46	17.82	17.82



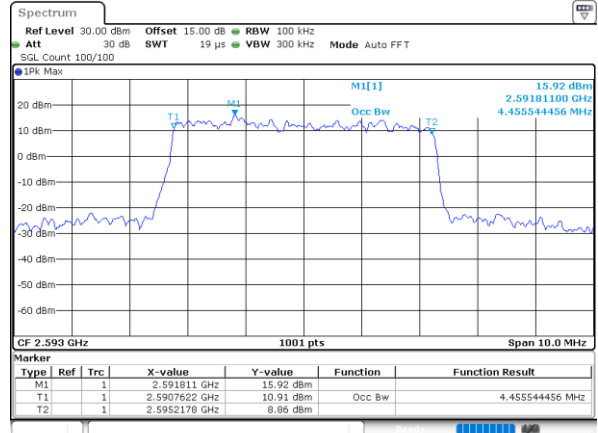
LTE Band 41

Middle Channel / 5MHz / QPSK



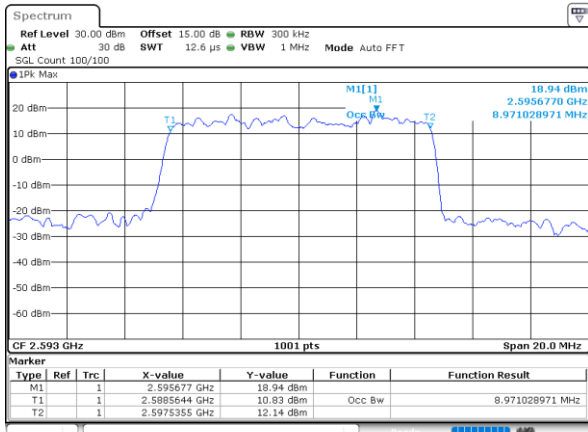
Date: 20_JAN.2025 15:10:57

Middle Channel / 5MHz / 16QAM



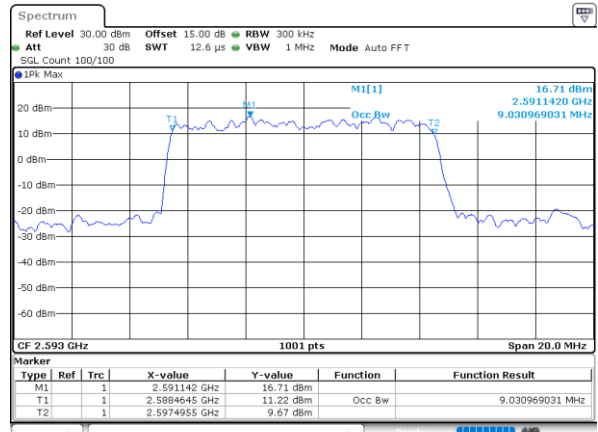
Date: 20_JAN.2025 15:11:37

Middle Channel / 10MHz / QPSK



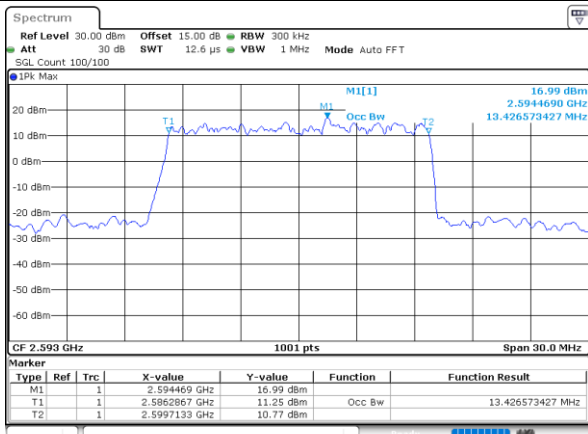
Date: 20_JAN.2025 15:28:30

Middle Channel / 10MHz / 16QAM



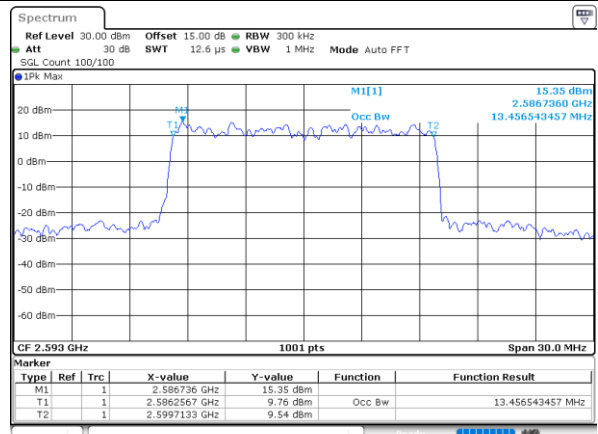
Date: 20_JAN.2025 15:29:10

Middle Channel / 15MHz / QPSK



Date: 20_JAN.2025 15:45:16

Middle Channel / 15MHz / 16QAM

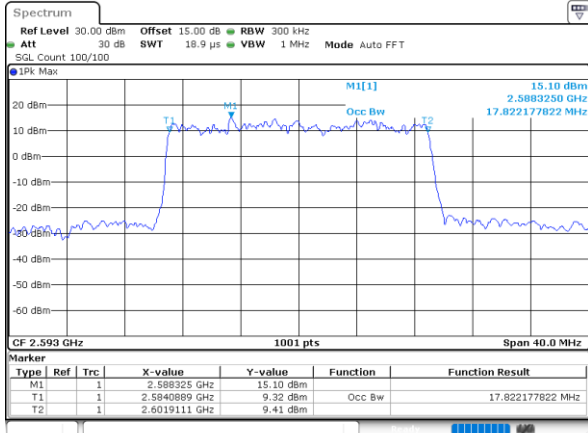


Date: 20_JAN.2025 15:45:56



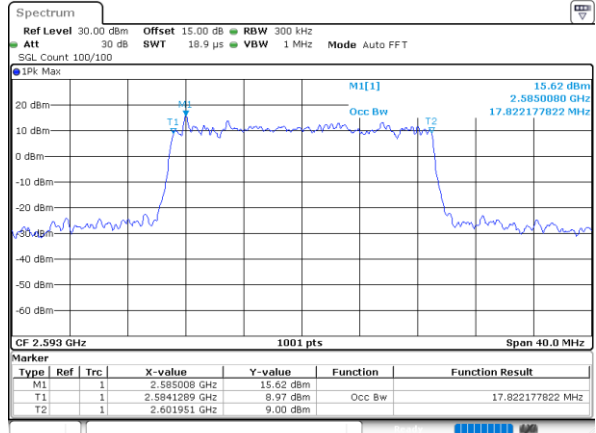
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 20_JAN_2025 16:01:58

Middle Channel / 20MHz / 16QAM



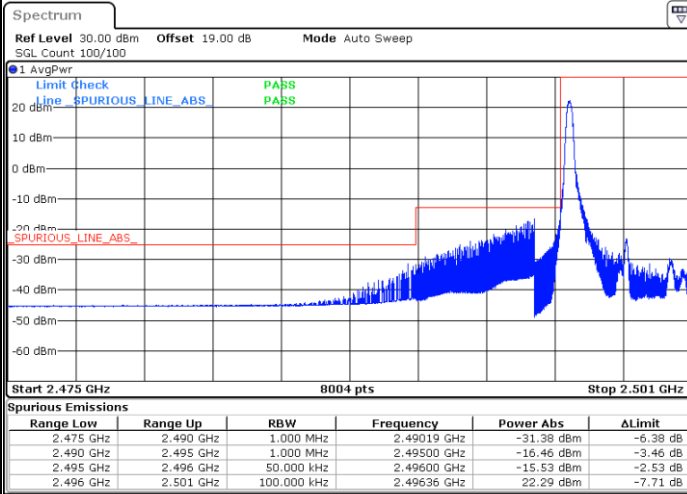
Date: 20_JAN_2025 16:02:38



Conducted Band Edge

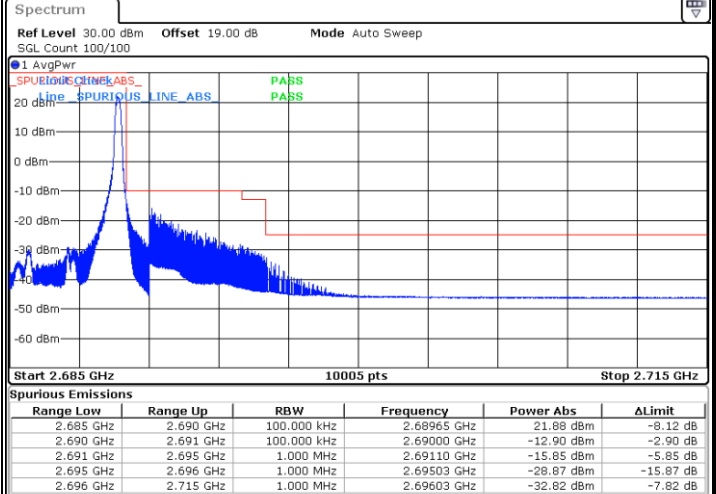
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



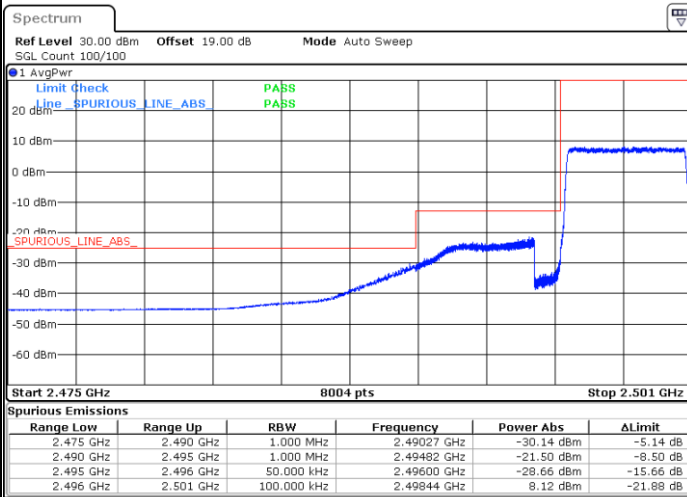
Date: 20.JAN.2025 15:04:23

Highest Band Edge / 1 RB



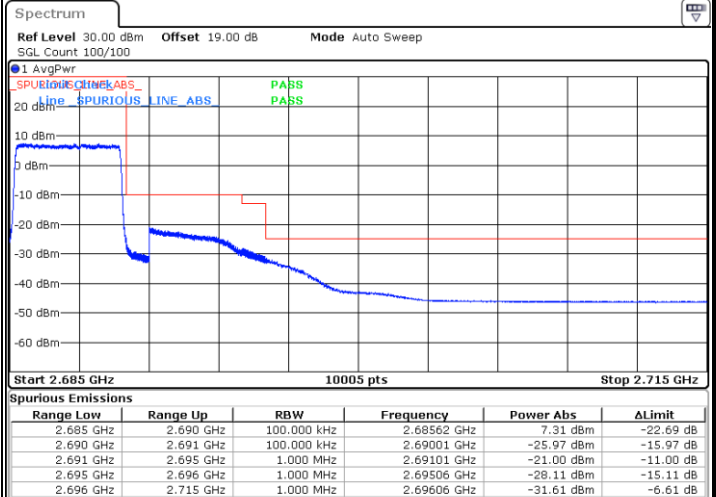
Date: 22.JAN.2025 13:36:47

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:08:11

Highest Band Edge / Full RB

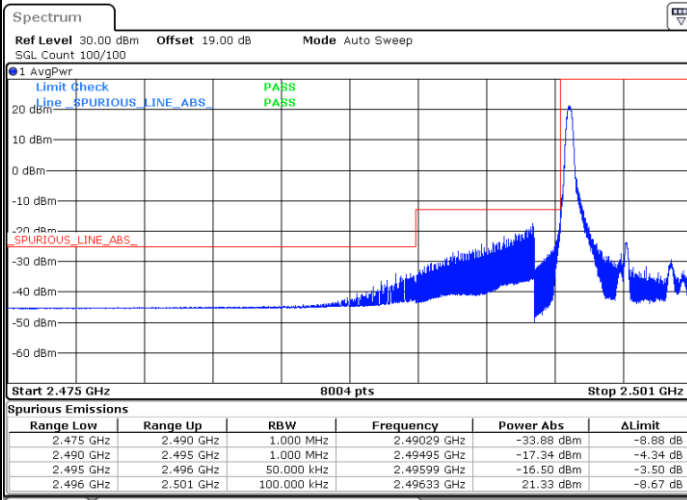


Date: 20.JAN.2025 15:18:11



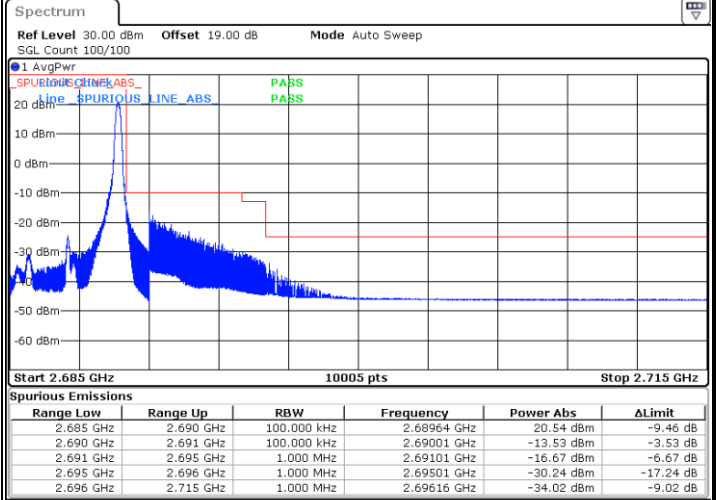
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



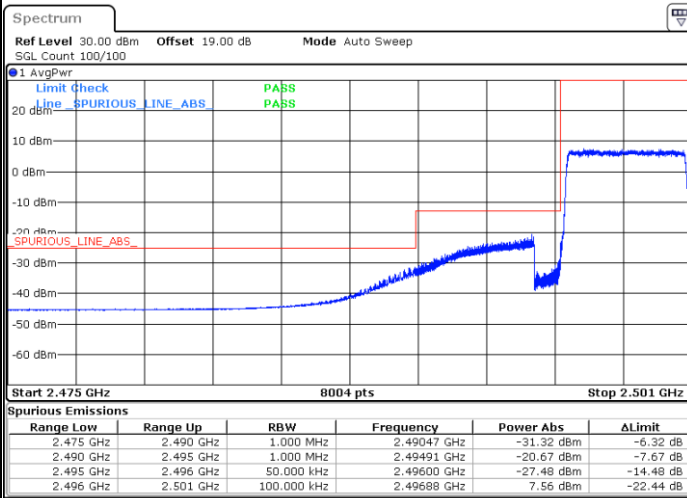
Date: 20.JAN.2025 15:03:20

Highest Band Edge / 1 RB



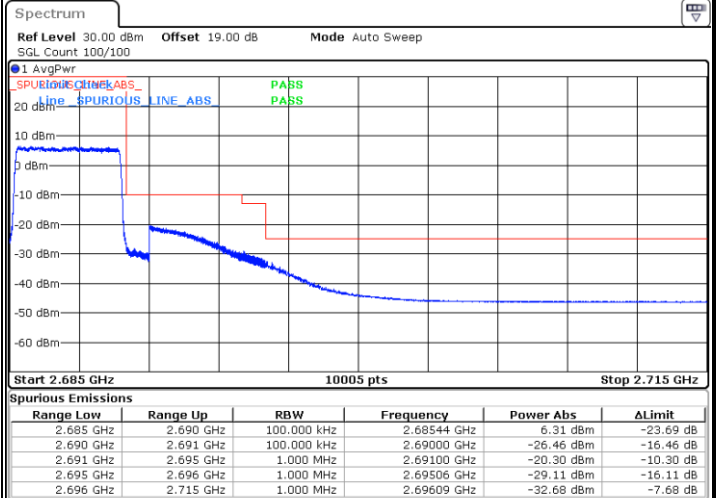
Date: 20.JAN.2025 15:13:57

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:07:15

Highest Band Edge / Full RB

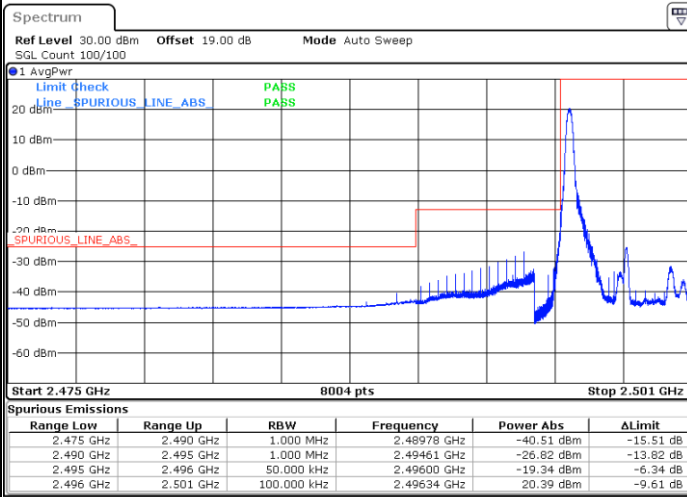


Date: 20.JAN.2025 15:17:08



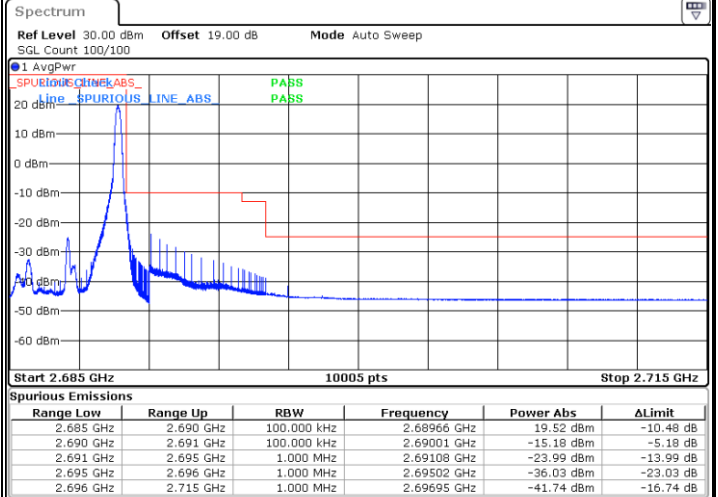
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



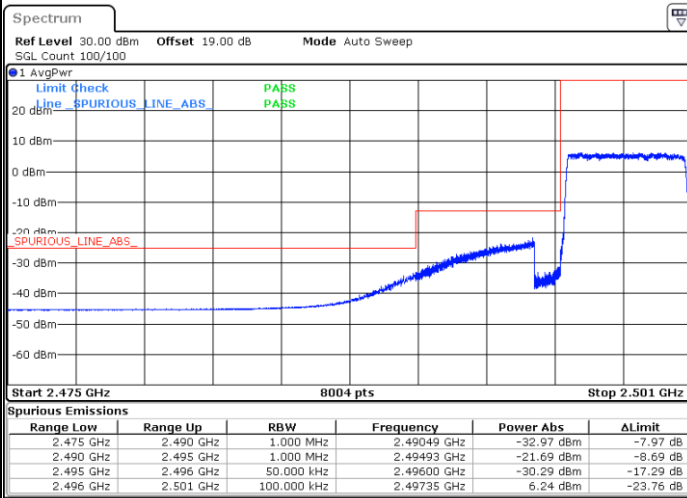
Date: 20.JAN.2025 15:05:22

Highest Band Edge / 1 RB



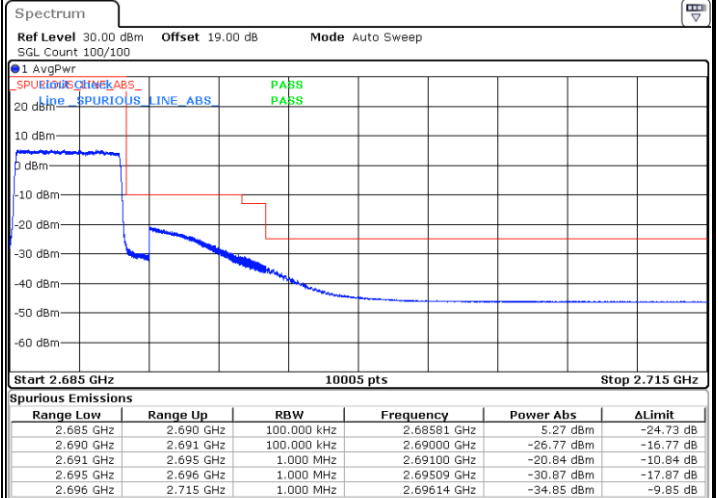
Date: 20.JAN.2025 15:15:01

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:06:19

Highest Band Edge / Full RB

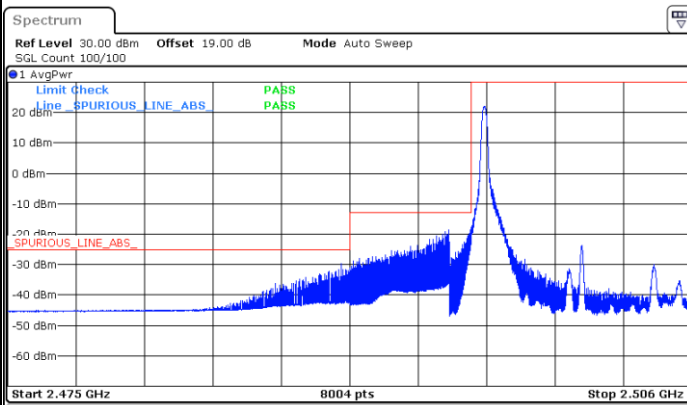


Date: 20.JAN.2025 15:16:04



LTE Band 41 / 10MHz / QPSK

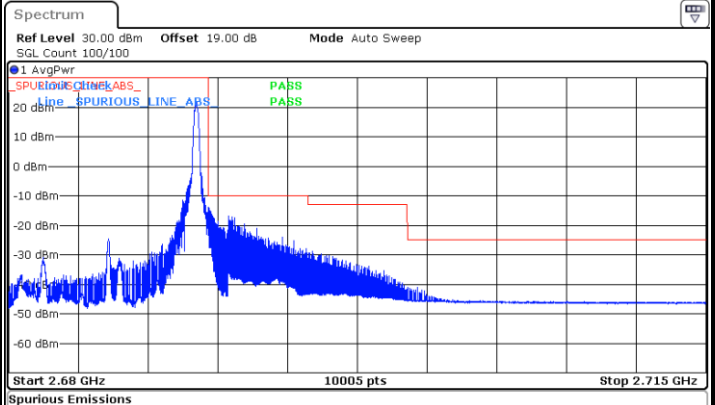
Lowest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49010 GHz	-29.66 dBm	-4.66 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49499 GHz	-19.44 dBm	-5.44 dB
2.495 GHz	2.496 GHz	100.000 kHz	2.49599 GHz	-17.64 dBm	-4.64 dB
2.496 GHz	2.506 GHz	100.000 kHz	2.49659 GHz	22.16 dBm	-7.84 dB

Date: 20.JAN.2025 15:21:01

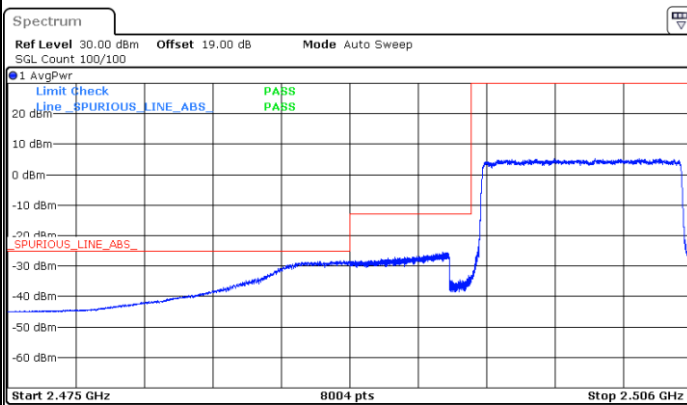
Highest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.680 GHz	2.690 GHz	100.000 kHz	2.68942 GHz	21.65 dBm	-8.35 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69003 GHz	-13.91 dBm	-3.91 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69103 GHz	-17.00 dBm	-7.00 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69526 GHz	-28.94 dBm	-15.94 dB
2.700 GHz	2.715 GHz	1.000 MHz	2.70052 GHz	-41.05 dBm	-16.05 dB

Date: 20.JAN.2025 15:30:19

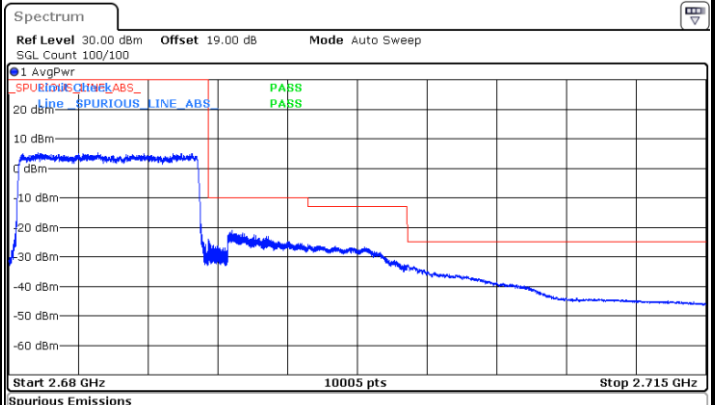
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49008 GHz	-28.10 dBm	-3.10 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49472 GHz	-25.49 dBm	-12.49 dB
2.495 GHz	2.496 GHz	100.000 kHz	2.49600 GHz	-32.97 dBm	-19.97 dB
2.496 GHz	2.506 GHz	100.000 kHz	2.50453 GHz	5.24 dBm	-24.76 dB

Date: 20.JAN.2025 15:25:45

Highest Band Edge / Full RB



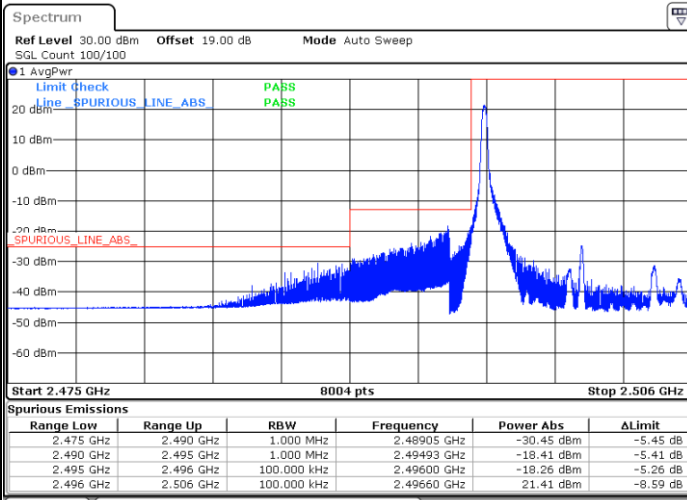
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.680 GHz	2.690 GHz	100.000 kHz	2.68146 GHz	5.16 dBm	-24.84 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69003 GHz	-23.99 dBm	-13.99 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69121 GHz	-21.12 dBm	-11.12 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69501 GHz	-25.92 dBm	-12.92 dB
2.700 GHz	2.715 GHz	1.000 MHz	2.70001 GHz	-32.55 dBm	-7.55 dB

Date: 20.JAN.2025 15:34:57



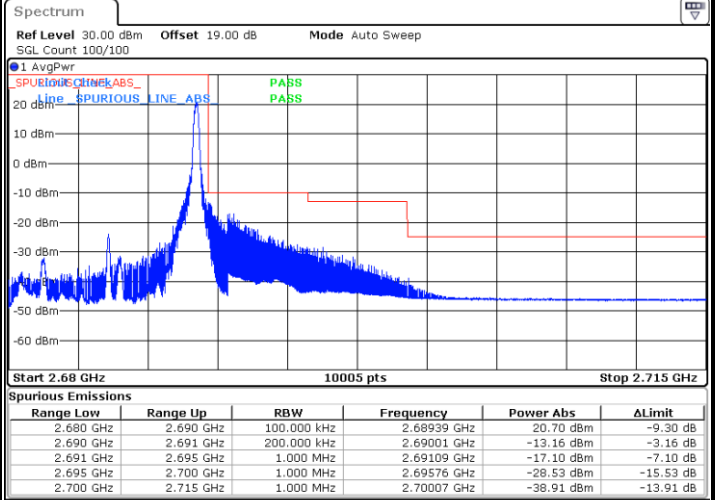
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1RB



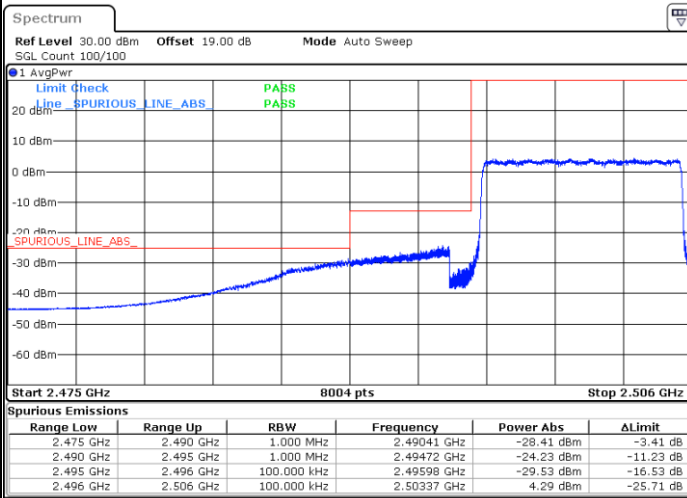
Date: 20.JAN.2025 15:21:57

Highest Band Edge / 1 RB



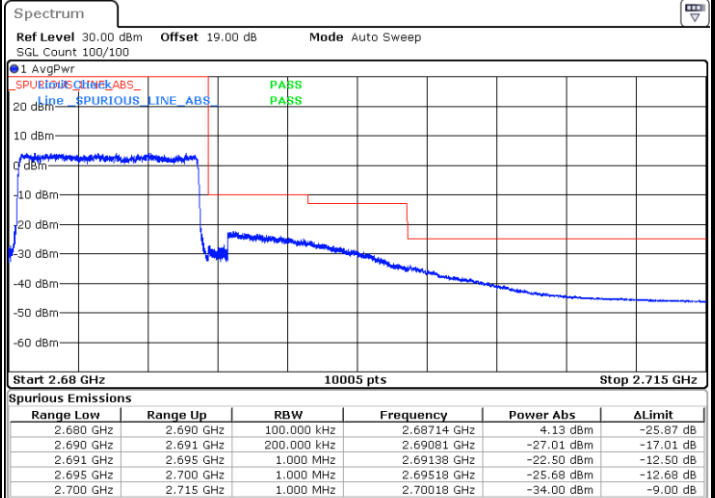
Date: 20.JAN.2025 15:31:14

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:24:45

Highest Band Edge / Full RB

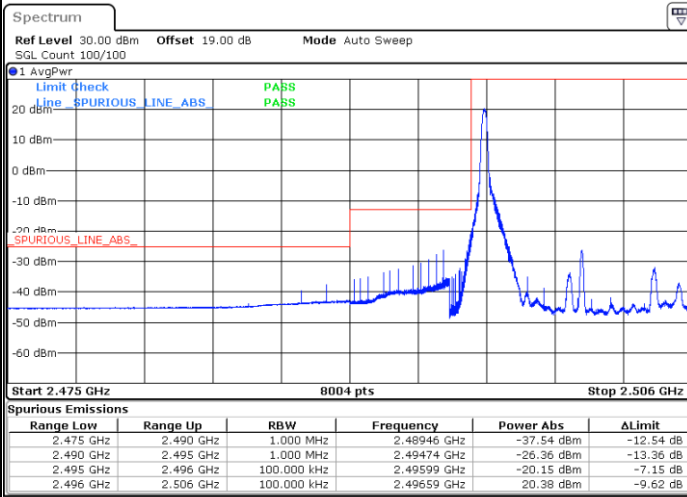


Date: 20.JAN.2025 15:34:02



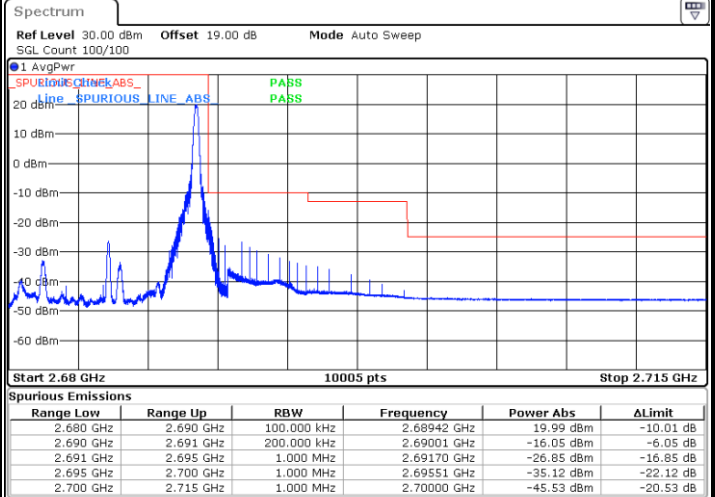
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1RB



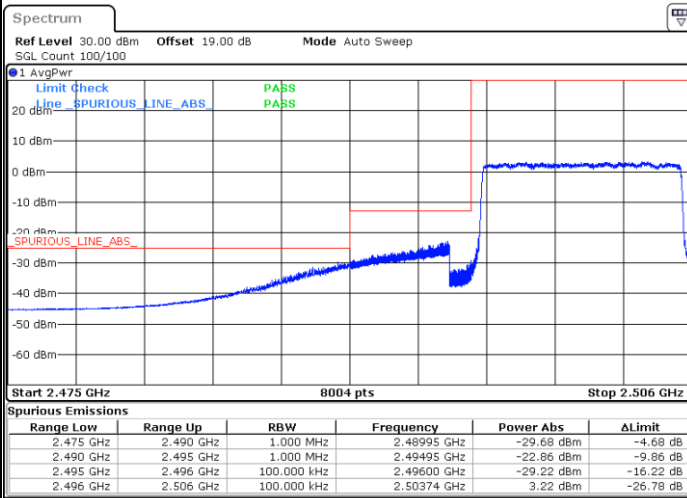
Date: 20. JAN. 2025 15:22:53

Highest Band Edge / 1 RB



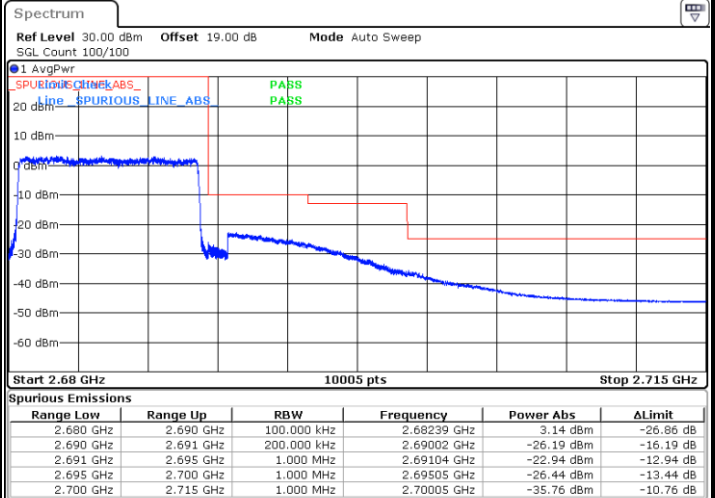
Date: 20. JAN. 2025 15:32:10

Lowest Band Edge / Full RB



Date: 20. JAN. 2025 15:23:49

Highest Band Edge / Full RB

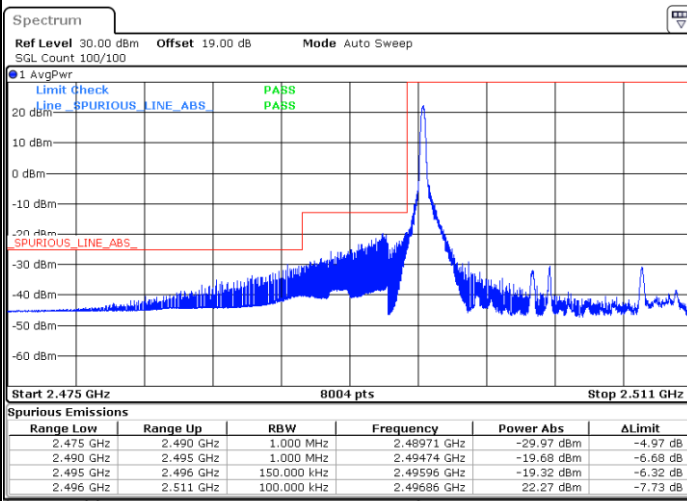


Date: 20. JAN. 2025 15:33:06



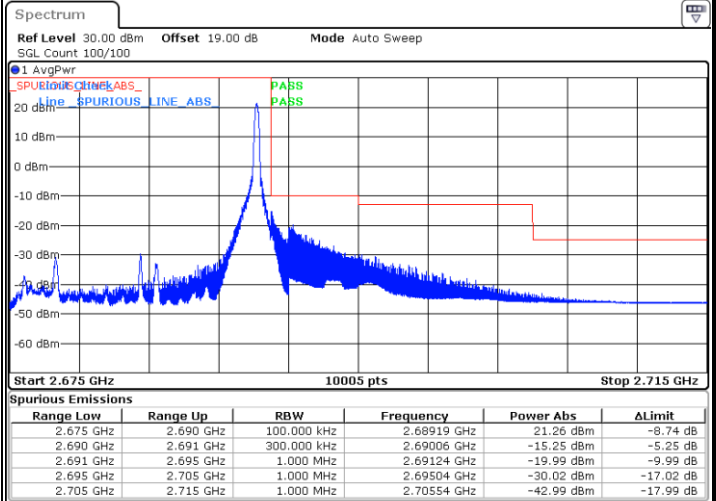
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



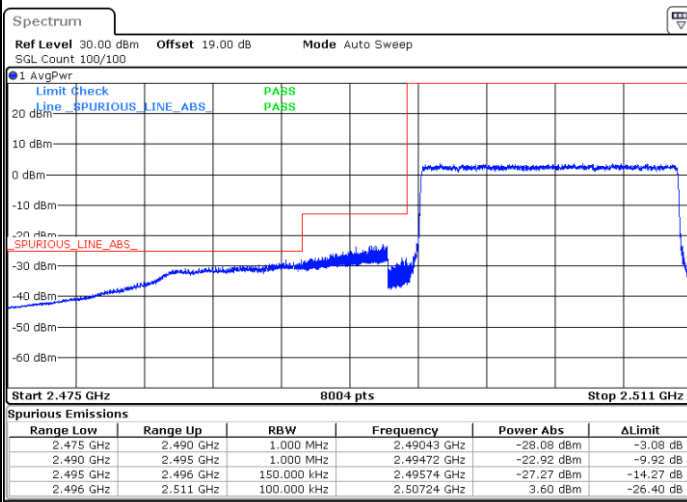
Date: 20.JAN.2025 15:37:46

Highest Band Edge / 1 RB



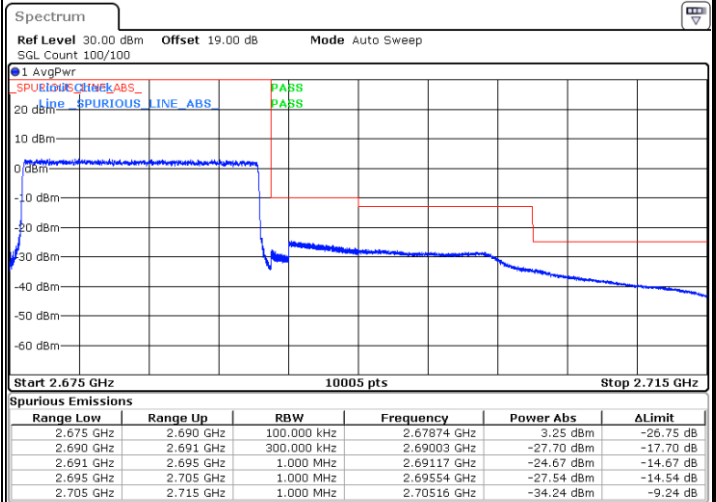
Date: 20.JAN.2025 15:47:04

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:42:30

Highest Band Edge / Full RB

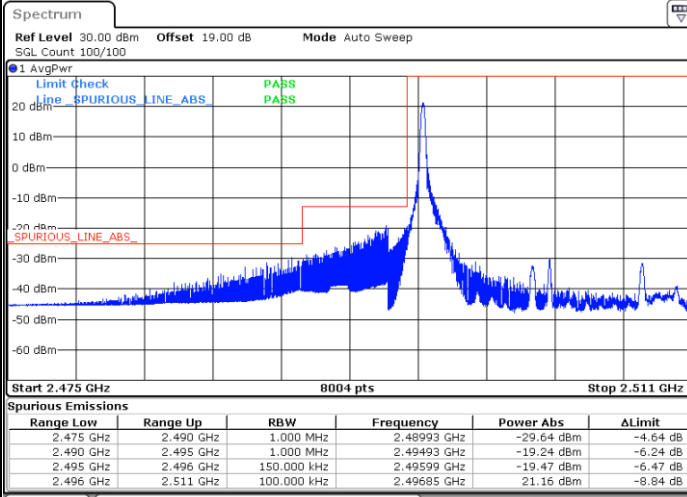


Date: 20.JAN.2025 15:51:43



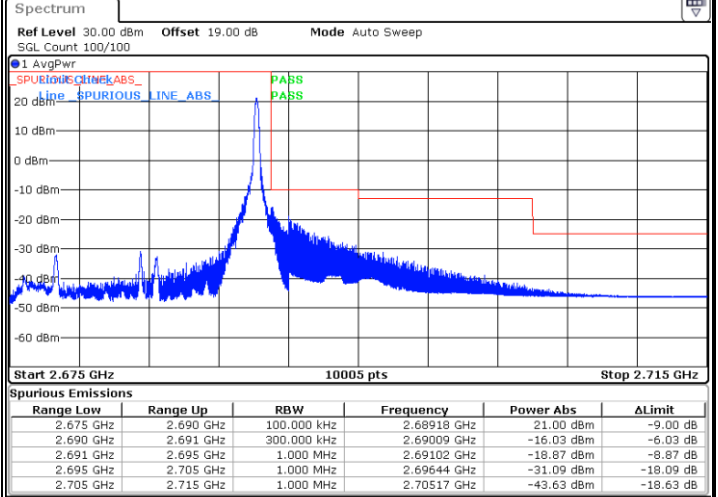
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1RB



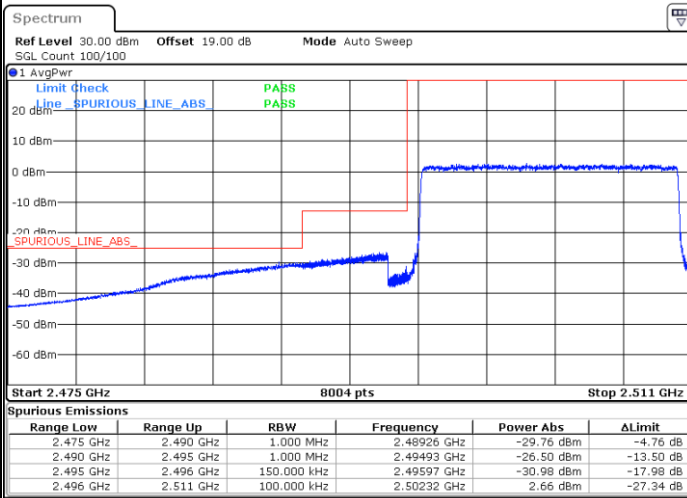
Date: 20.JAN.2025 15:38:42

Highest Band Edge / 1 RB



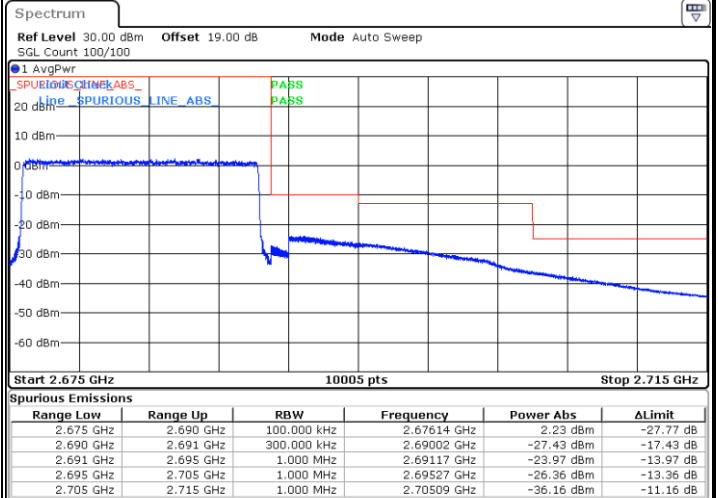
Date: 20.JAN.2025 15:48:00

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:41:31

Highest Band Edge / Full RB

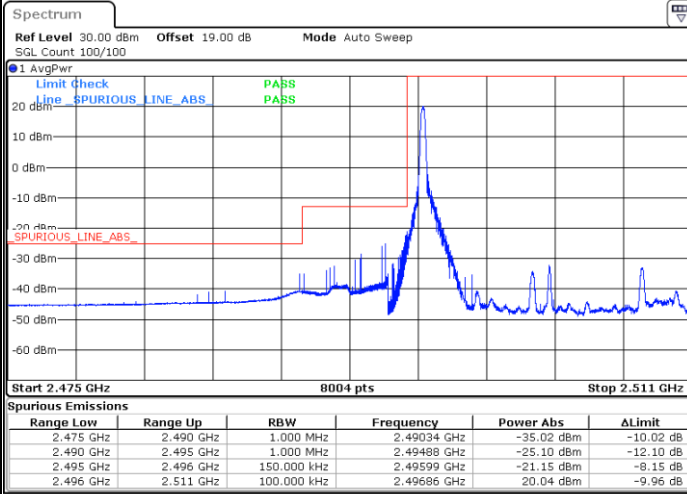


Date: 20.JAN.2025 15:50:48



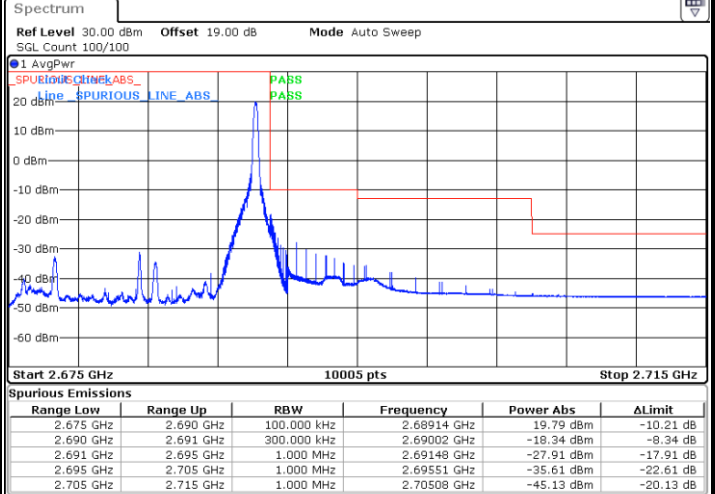
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1RB



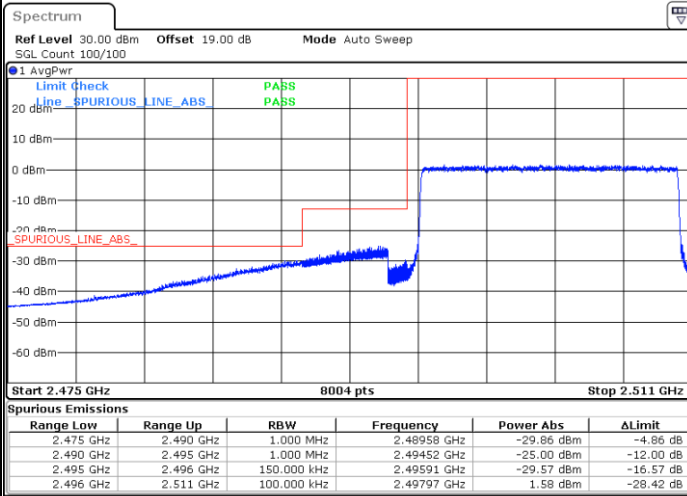
Date: 20.JAN.2025 15:39:39

Highest Band Edge / 1 RB



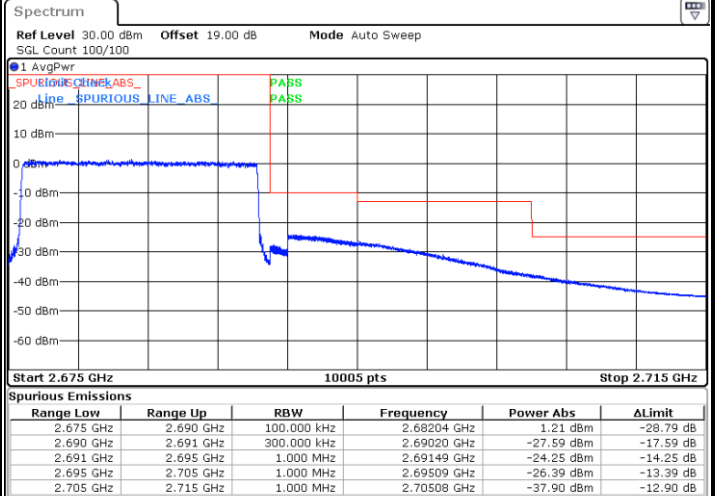
Date: 20.JAN.2025 15:48:56

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:40:35

Highest Band Edge / Full RB

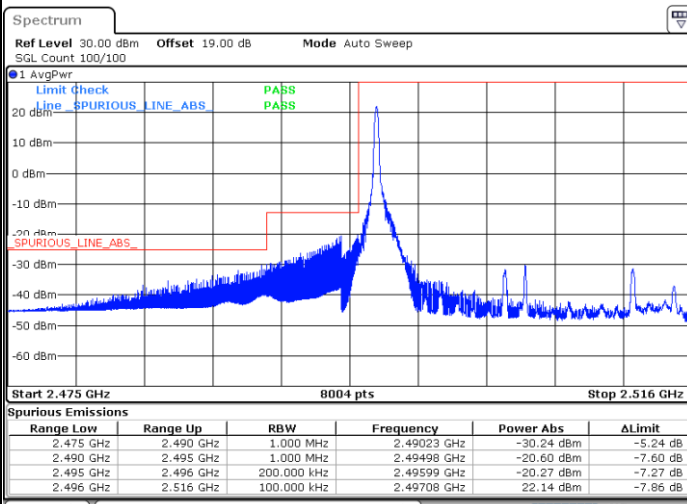


Date: 20.JAN.2025 15:49:52



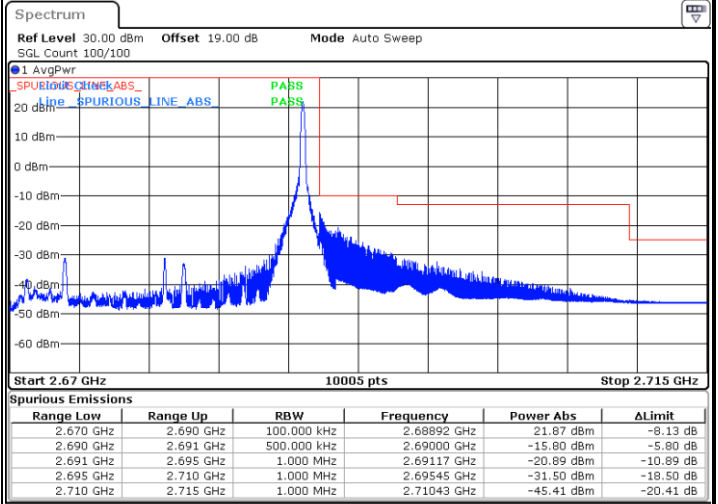
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



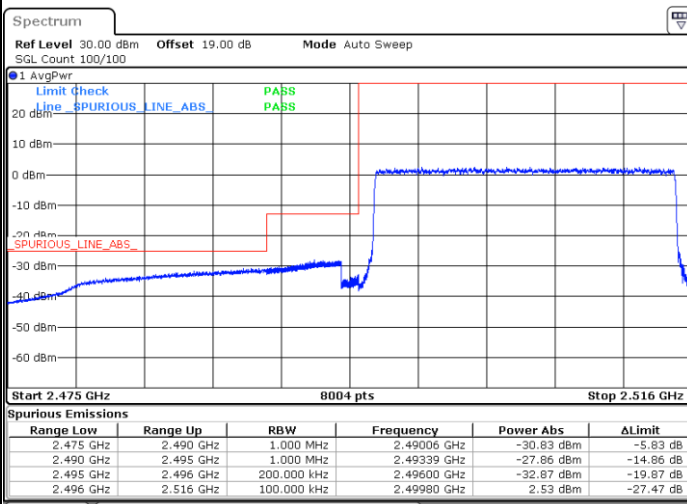
Date: 20.JAN.2025 15:54:32

Highest Band Edge / 1 RB



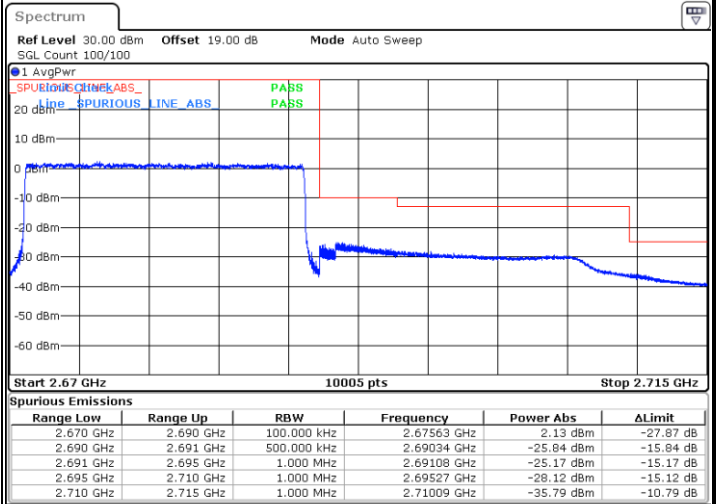
Date: 20.JAN.2025 16:05:07

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:59:13

Highest Band Edge / Full RB

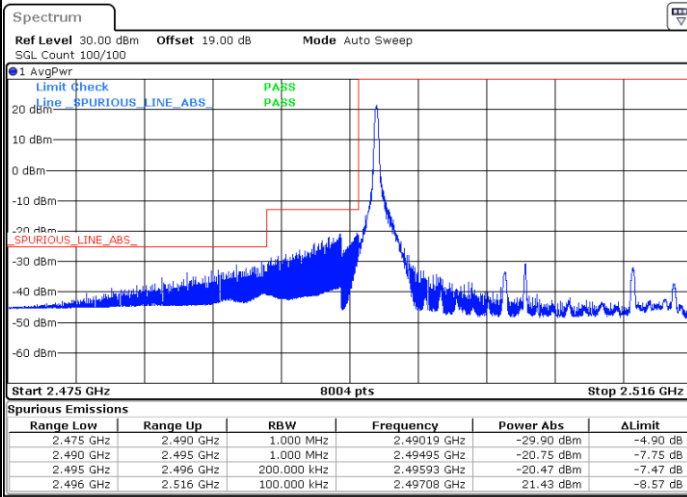


Date: 20.JAN.2025 16:09:46



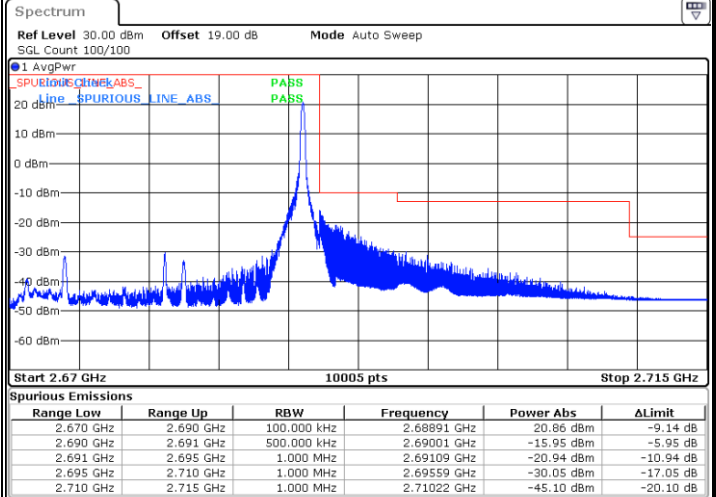
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1RB



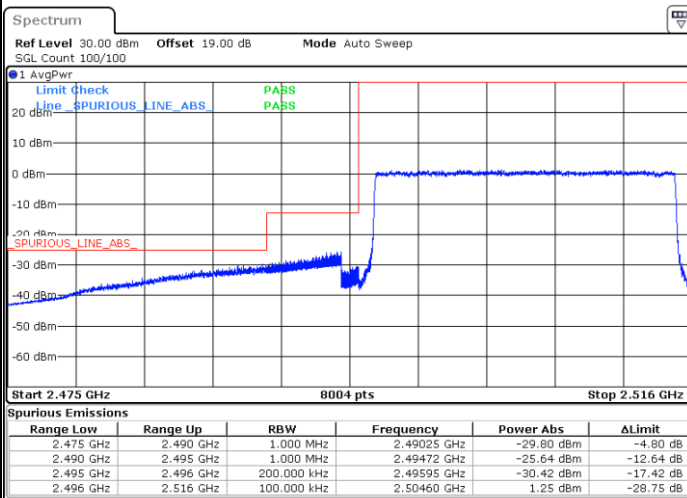
Date: 20.JAN.2025 15:55:28

Highest Band Edge / 1 RB



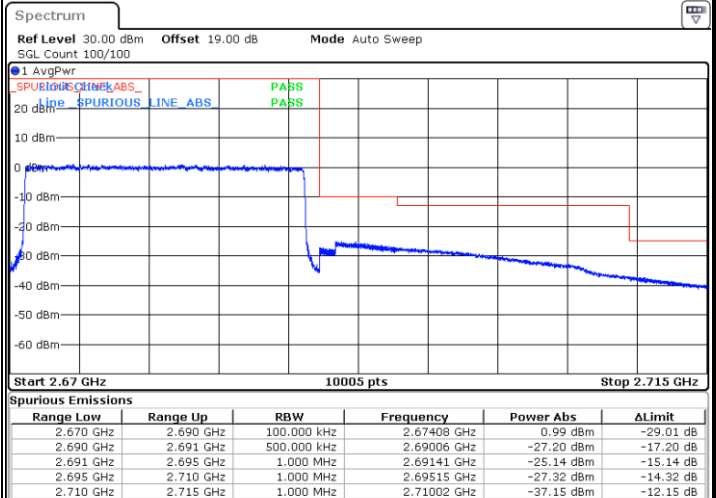
Date: 20.JAN.2025 16:06:03

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:58:17

Highest Band Edge / Full RB

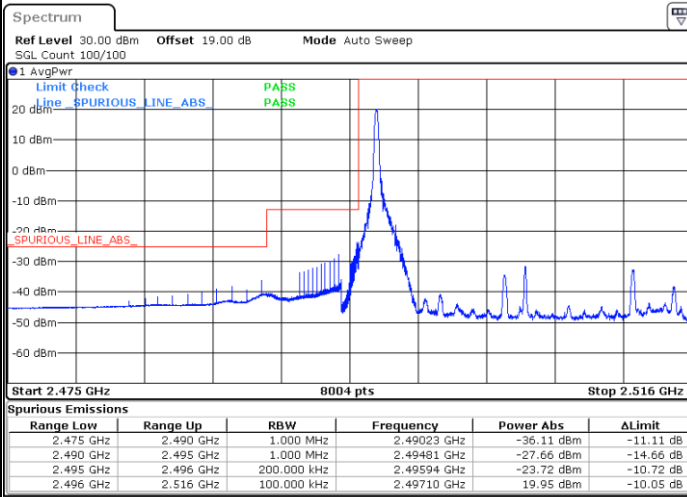


Date: 20.JAN.2025 16:08:50



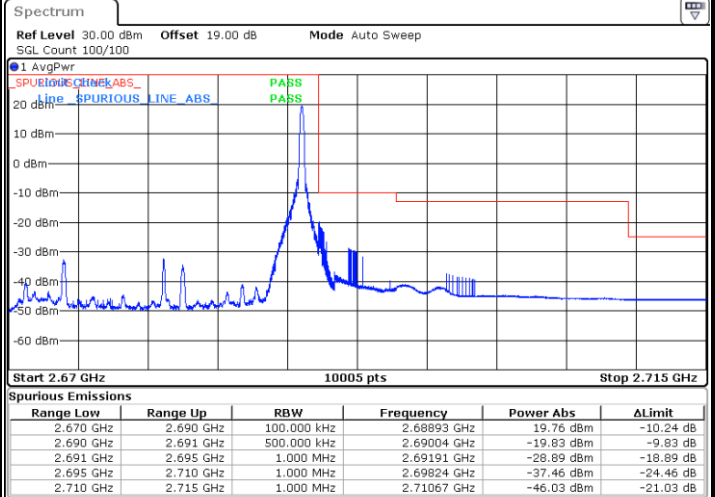
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1RB



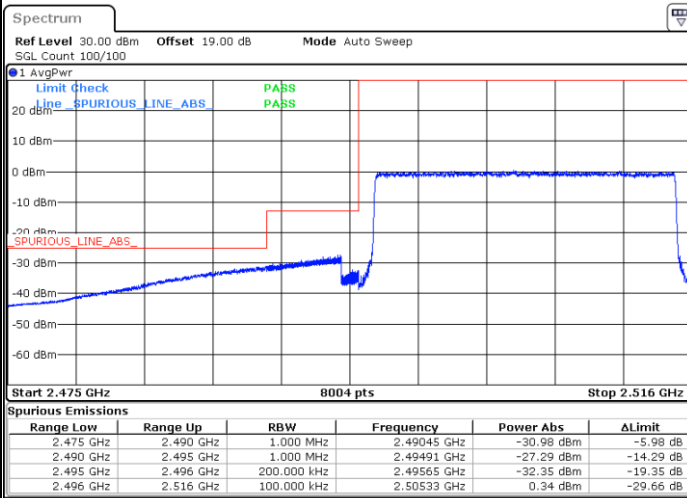
Date: 20.JAN.2025 15:56:24

Highest Band Edge / 1 RB



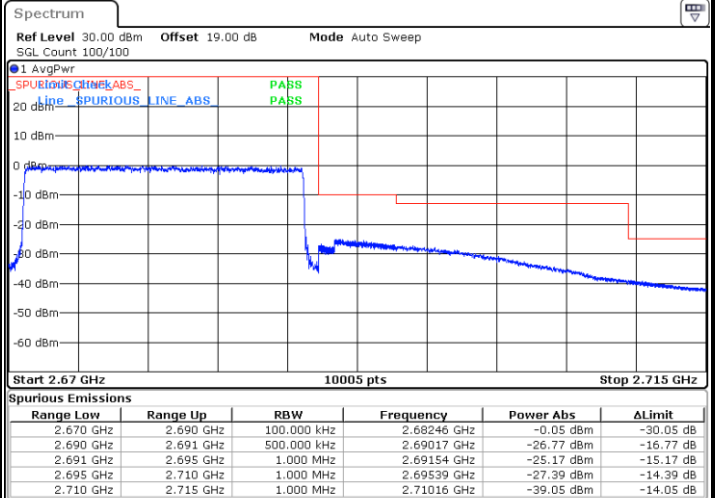
Date: 20.JAN.2025 16:06:59

Lowest Band Edge / Full RB



Date: 20.JAN.2025 15:57:21

Highest Band Edge / Full RB



Date: 20.JAN.2025 16:07:54

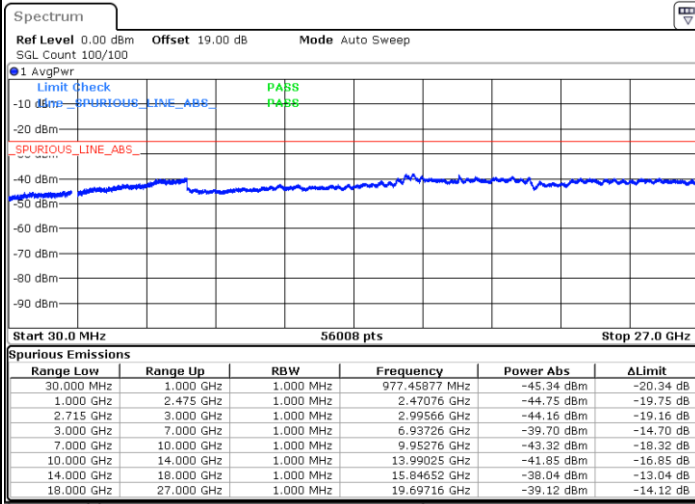


Conducted Spurious Emission

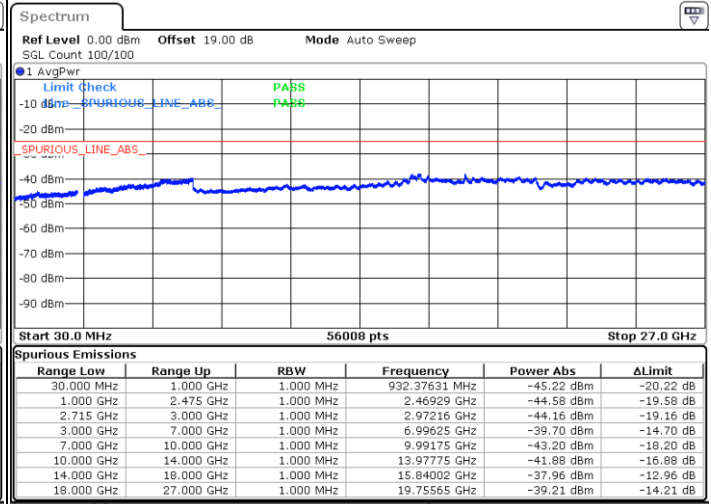
LTE Band 41 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

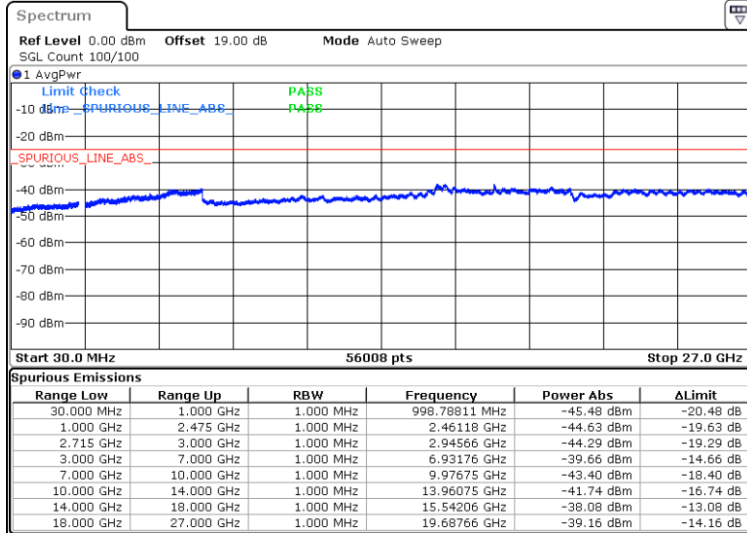


Date: 20.JAN.2025 15:09:21



Date: 20.JAN.2025 15:10:31

Highest Channel / QPSK



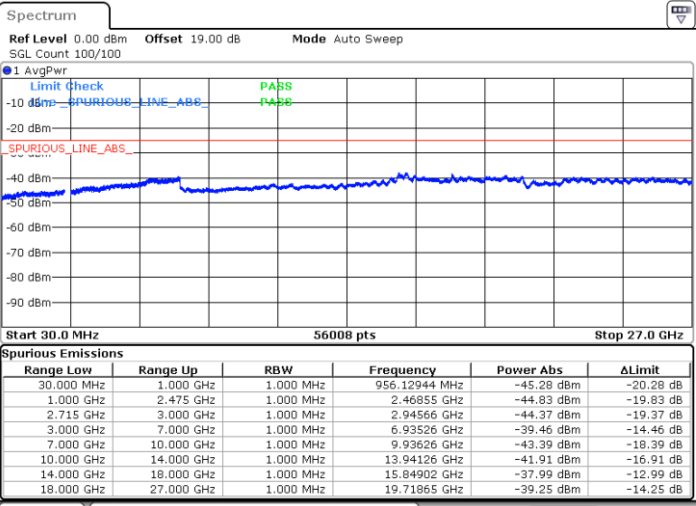
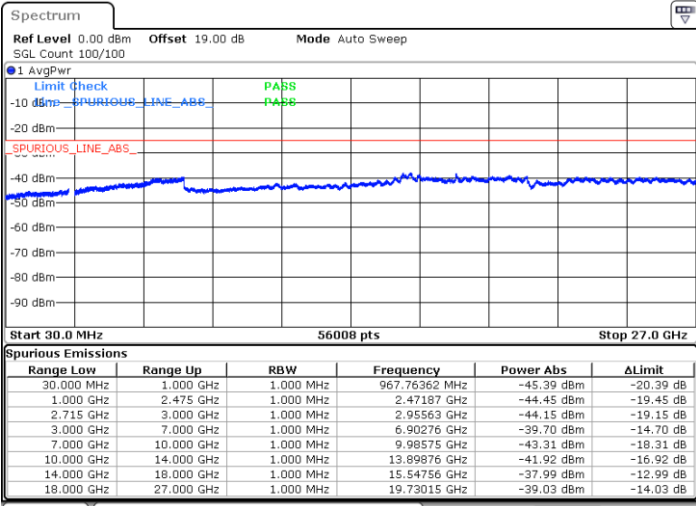
Date: 20.JAN.2025 15:19:21



LTE Band 41 / 10MHz

Lowest Channel / QPSK

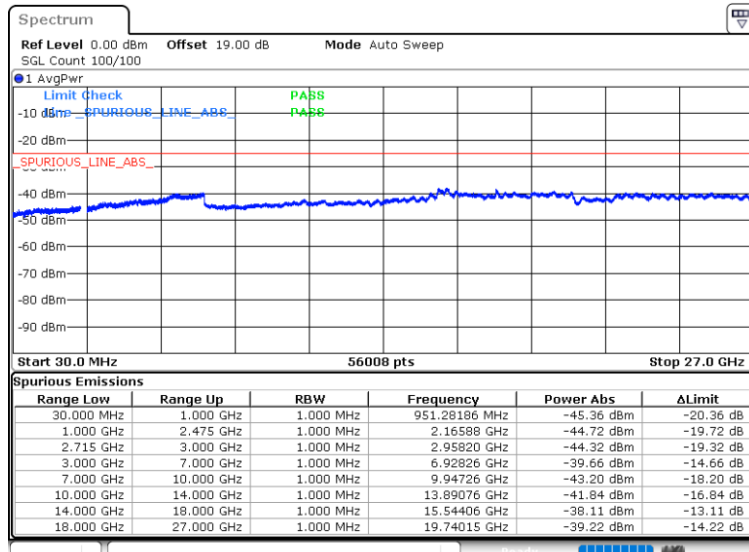
Middle Channel / QPSK



Date: 20.JAN.2025 15:26:55

Date: 20.JAN.2025 15:28:04

Highest Channel / QPSK



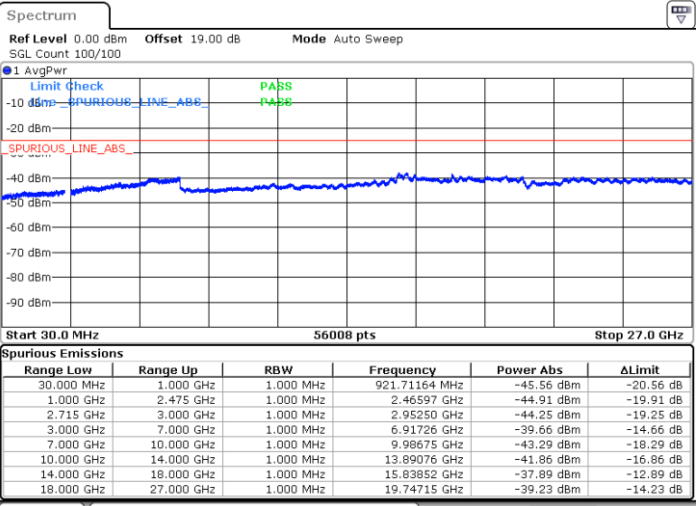
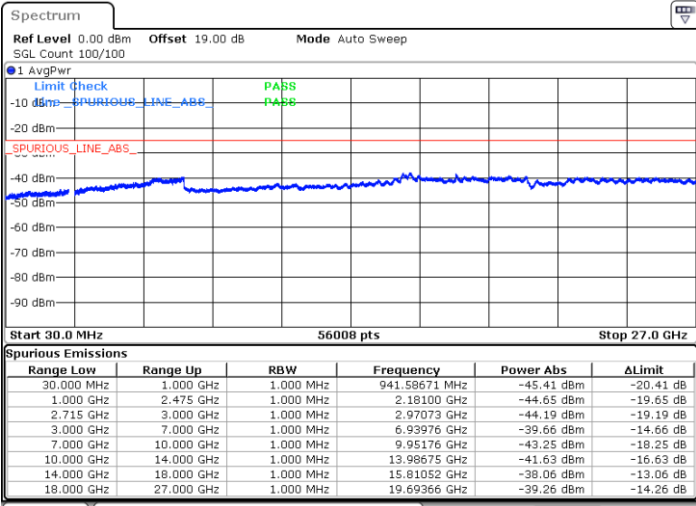
Date: 20.JAN.2025 15:36:07



LTE Band 41 / 15MHz

Lowest Channel / QPSK

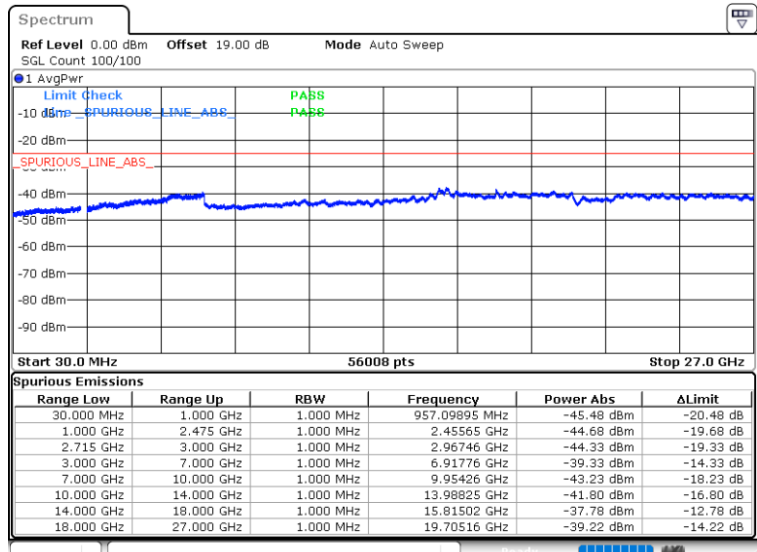
Middle Channel / QPSK



Date: 20.JAN.2025 15:43:40

Date: 20.JAN.2025 15:44:50

Highest Channel / QPSK



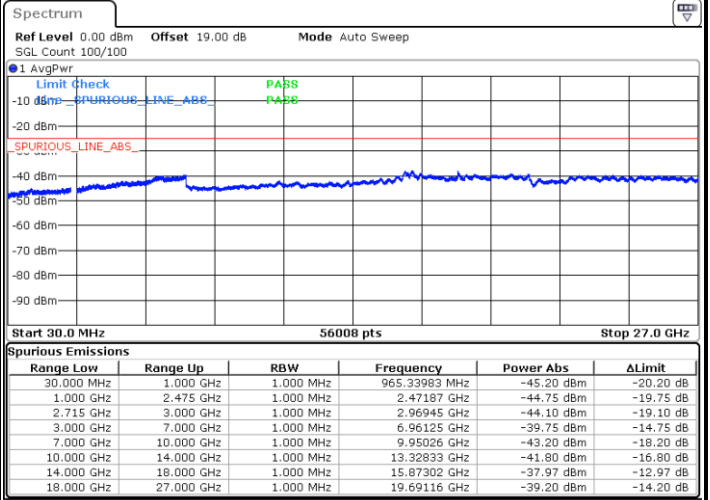
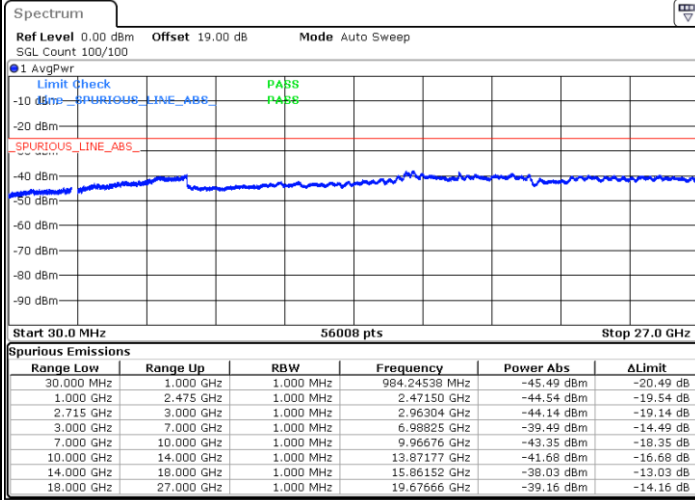
Date: 20.JAN.2025 15:52:53



LTE Band 41 / 20MHz

Lowest Channel / QPSK

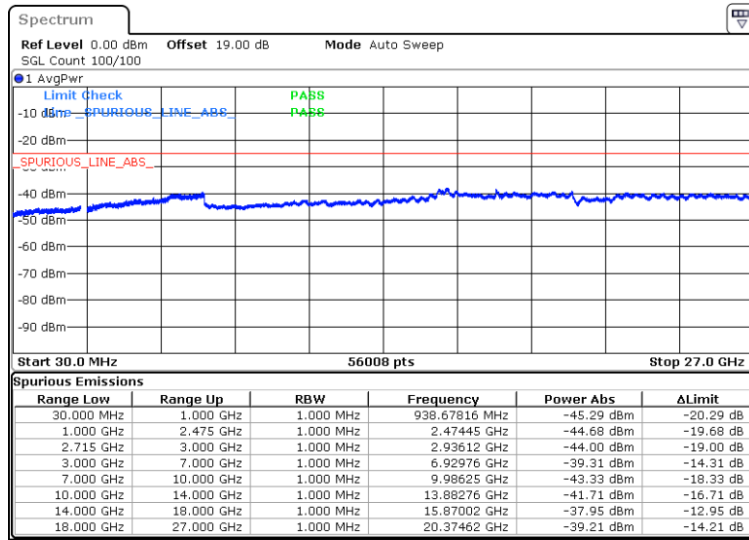
Middle Channel / QPSK



Date: 20.JAN.2025 16:00:23

Date: 20.JAN.2025 16:01:32

Highest Channel / QPSK



Date: 20.JAN.2025 16:10:56



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	2.7	PASS
40	Normal Voltage	3	
30	Normal Voltage	-2.3	
20(Ref.)	Normal Voltage	5.6	
10	Normal Voltage	3.4	
0	Normal Voltage	2.6	
-10	Normal Voltage	3.1	
-20	Normal Voltage	-2.9	
-30	Normal Voltage	3.7	
20	Maximum Voltage	4.5	
20	Normal Voltage	5.6	
20	Battery End Point	3.5	

Note:

1. Normal Voltage = 3.91 V.; Battery End Point (BEP) = 3.6 V.; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$|\text{MAX}(\Delta f)| = 5.6\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2496.222294	$\geq 2496 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2689.747806	$\leq 2690 \text{ MHz}$	



LTE Band 41(Other PA)

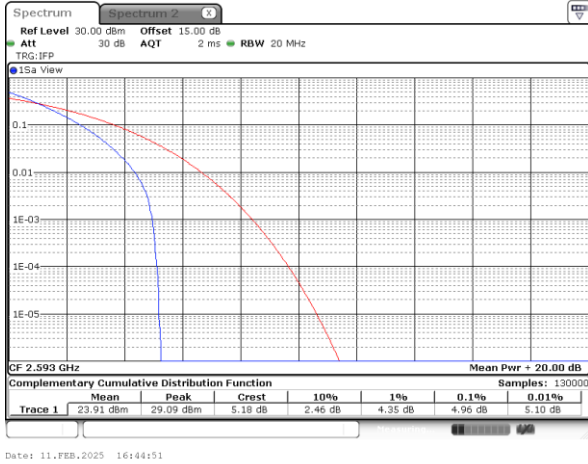
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.94	6.46	PASS



LTE Band 41 / 20MHz / QPSK

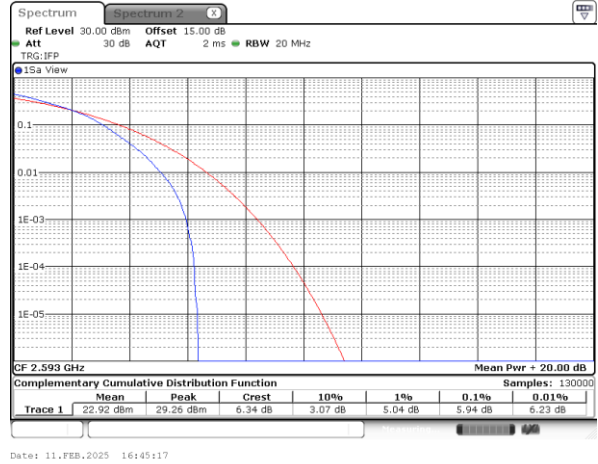
Middle Channel / Full RB



Date: 11.FEB.2025 16:44:51

LTE Band 41 / 20MHz / 16QAM

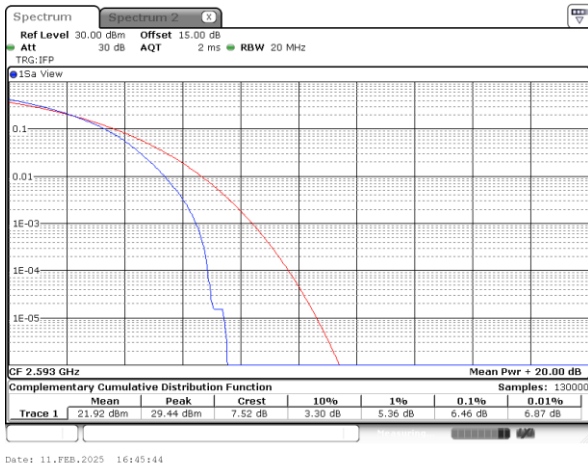
Middle Channel / Full RB



Date: 11.FEB.2025 16:45:17

LTE Band 41 / 20MHz / 64QAM

Middle Channel / Full RB



Date: 11.FEB.2025 16:45:44



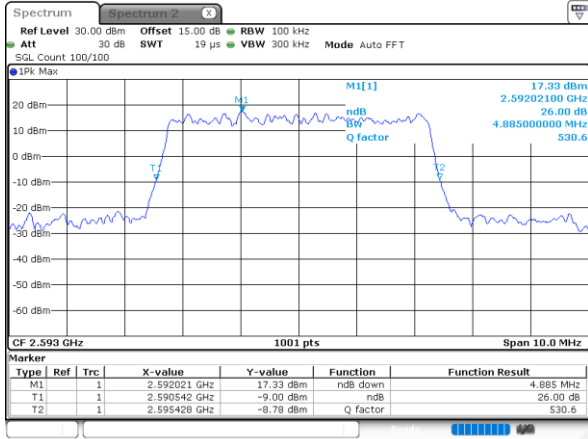
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.89	4.84	9.65	9.79	14.42	14.15	18.78	19.10



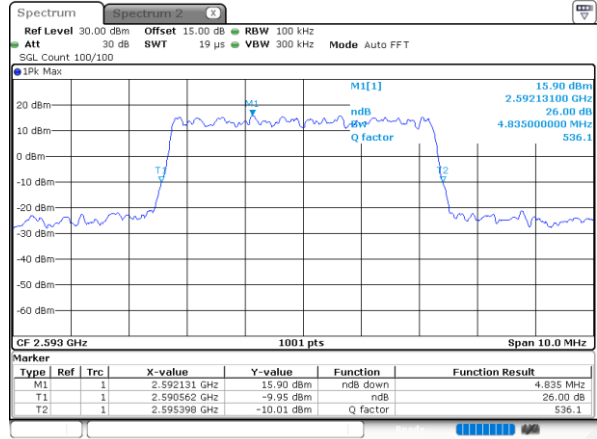
LTE Band 41

Middle Channel / 5MHz / QPSK



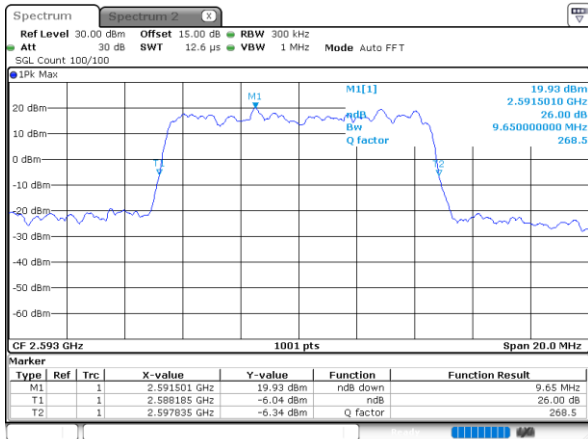
Date: 11.FEB.2025 15:19:57

Middle Channel / 5MHz / 16QAM



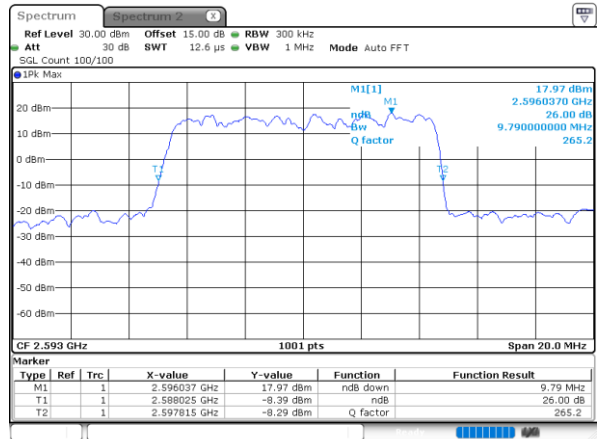
Date: 11.FEB.2025 15:20:36

Middle Channel / 10MHz / QPSK



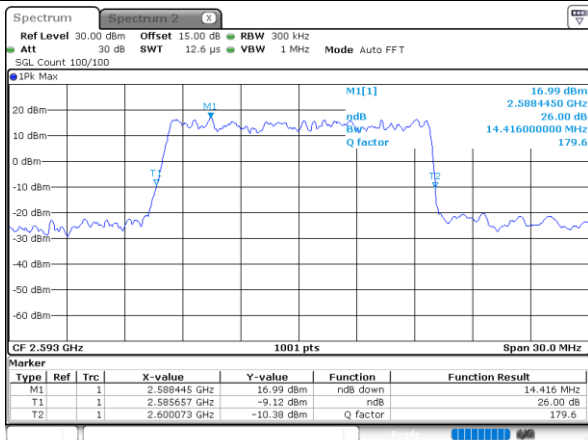
Date: 11.FEB.2025 15:38:08

Middle Channel / 10MHz / 16QAM



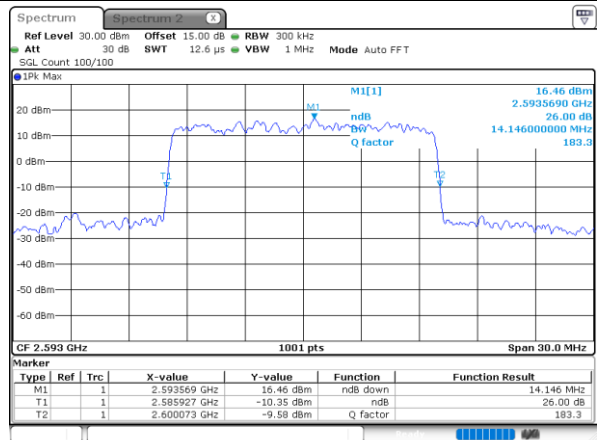
Date: 11.FEB.2025 15:38:48

Middle Channel / 15MHz / QPSK



Date: 11.FEB.2025 16:12:35

Middle Channel / 15MHz / 16QAM

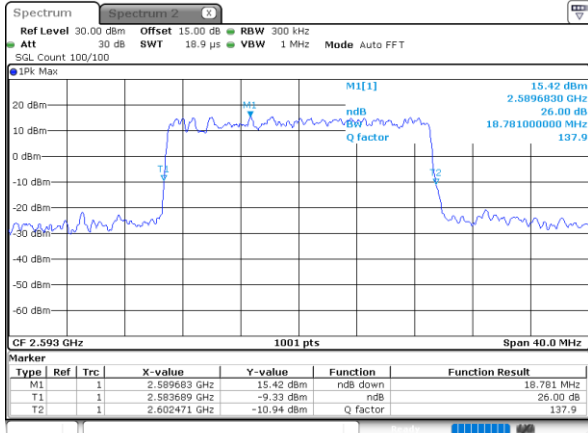


Date: 11.FEB.2025 16:12:14



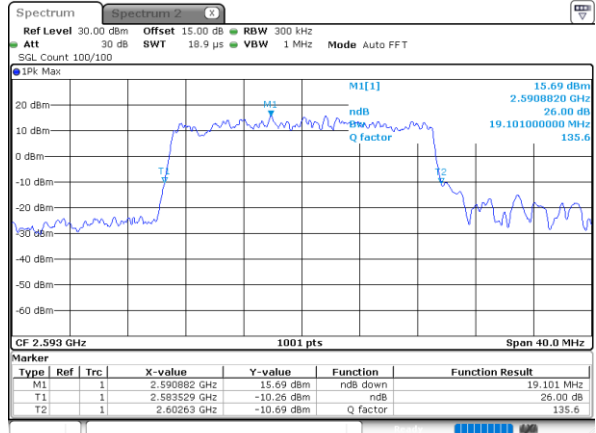
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 11.FEB.2025 16:43:45

Middle Channel / 20MHz / 16QAM



Date: 11.FEB.2025 16:44:24