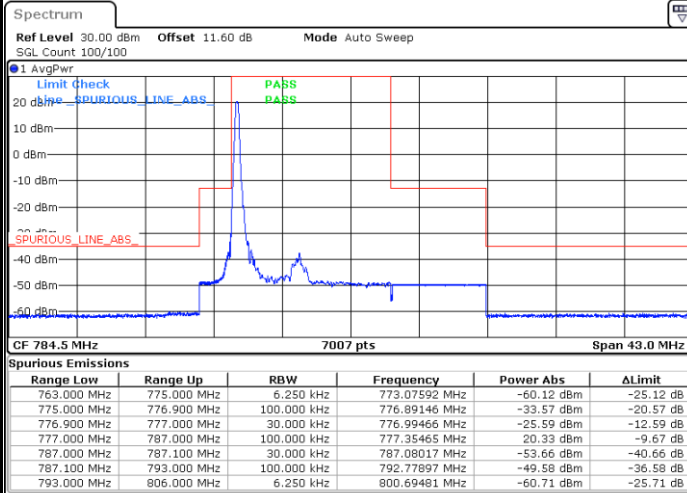




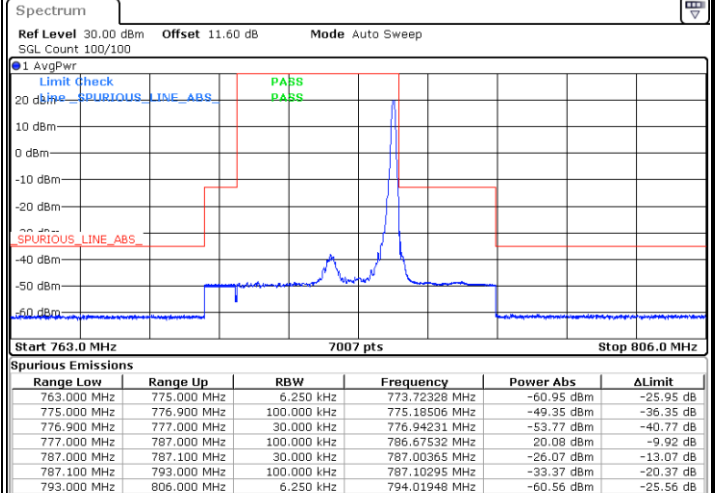
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



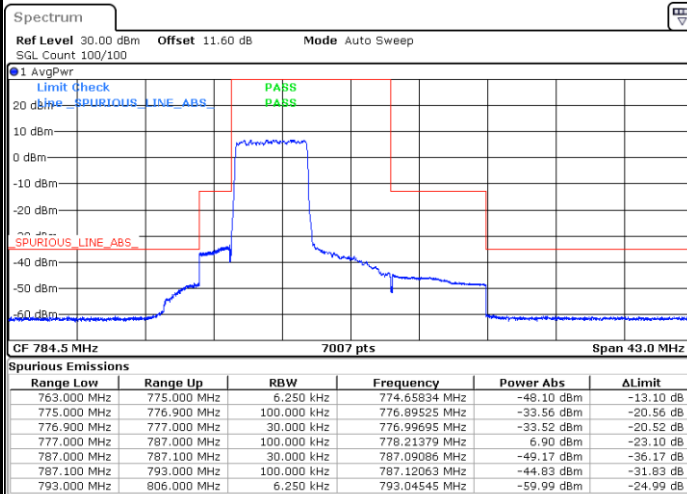
Date: 19.OCT.2023 19:44:06

Highest Band Edge / 1 RB



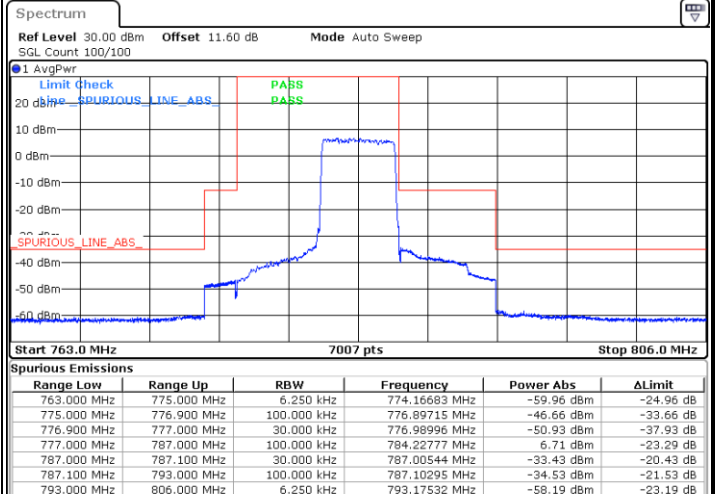
Date: 19.OCT.2023 19:48:19

Lowest Band Edge / Full RB



Date: 19.OCT.2023 19:41:00

Highest Band Edge / Full RB

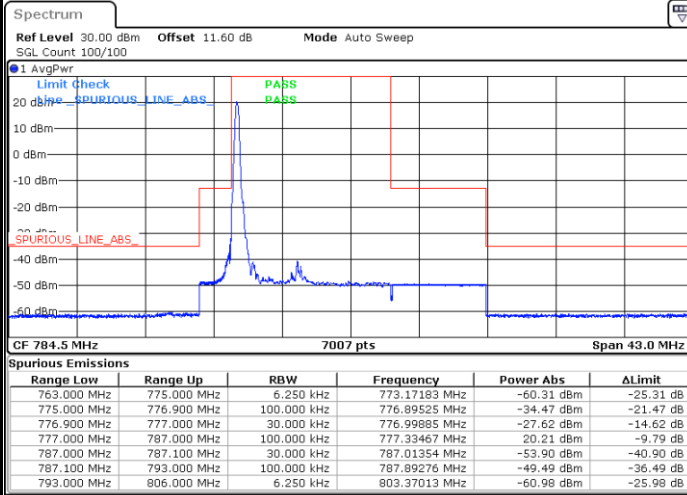


Date: 19.OCT.2023 19:45:12



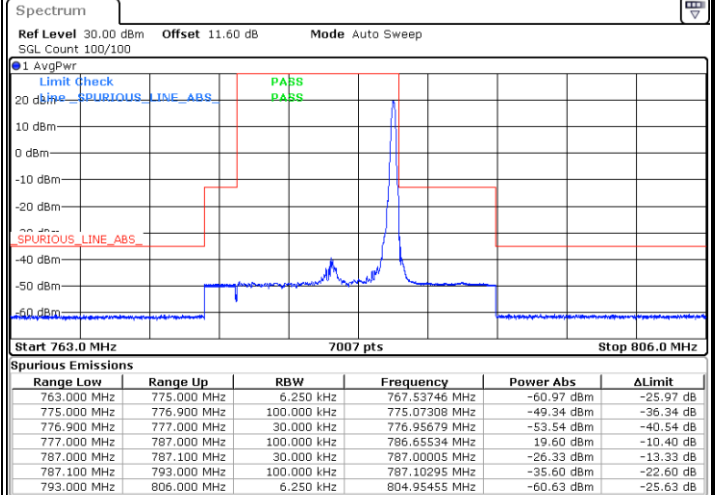
IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



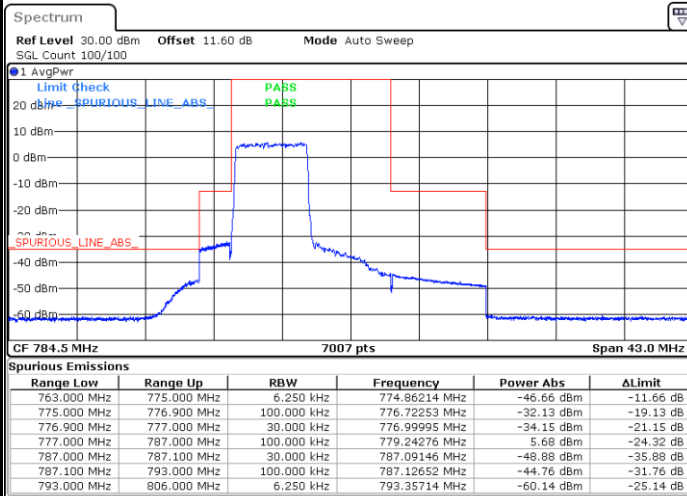
Date: 19.OCT.2023 19:43:05

Highest Band Edge / 1 RB



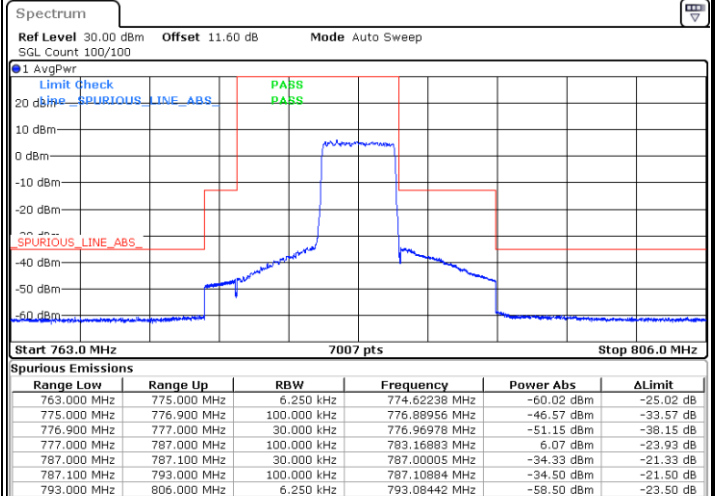
Date: 19.OCT.2023 19:47:13

Lowest Band Edge / Full RB



Date: 19.OCT.2023 19:42:06

Highest Band Edge / Full RB

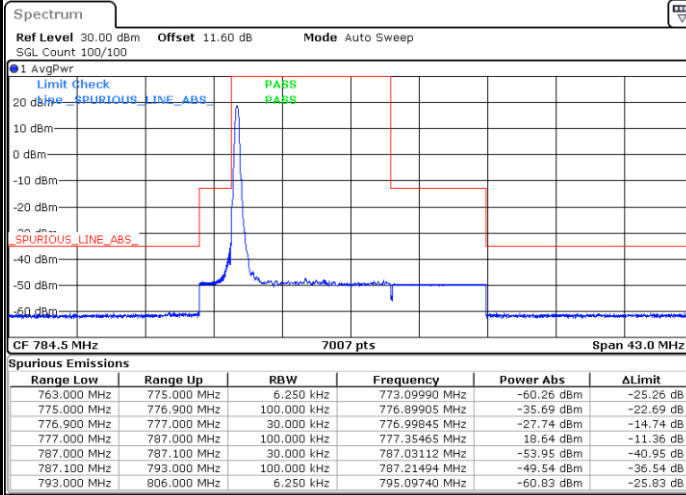


Date: 19.OCT.2023 19:46:12



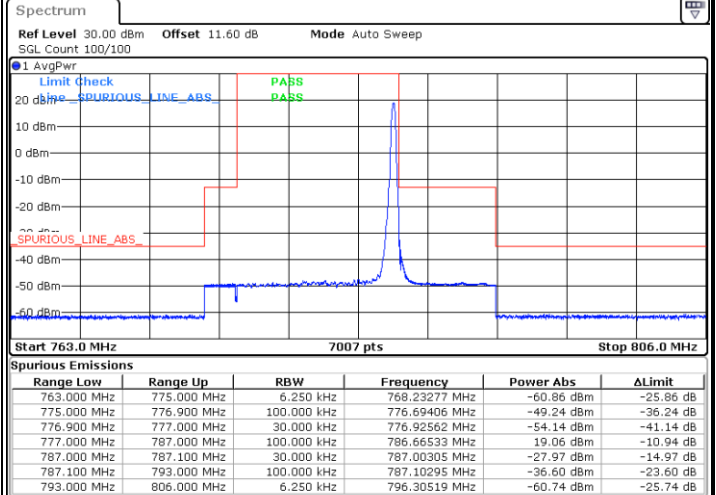
IC LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



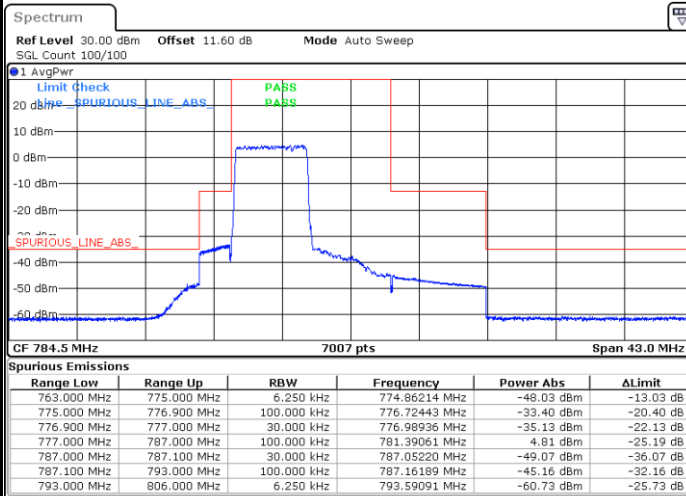
Date: 19.OCT.2023 19:50:20

Highest Band Edge / 1 RB



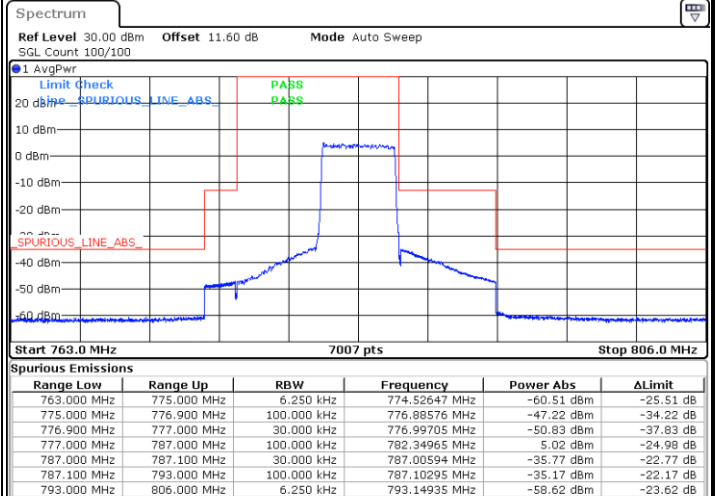
Date: 19.OCT.2023 19:52:26

Lowest Band Edge / Full RB



Date: 19.OCT.2023 19:49:19

Highest Band Edge / Full RB

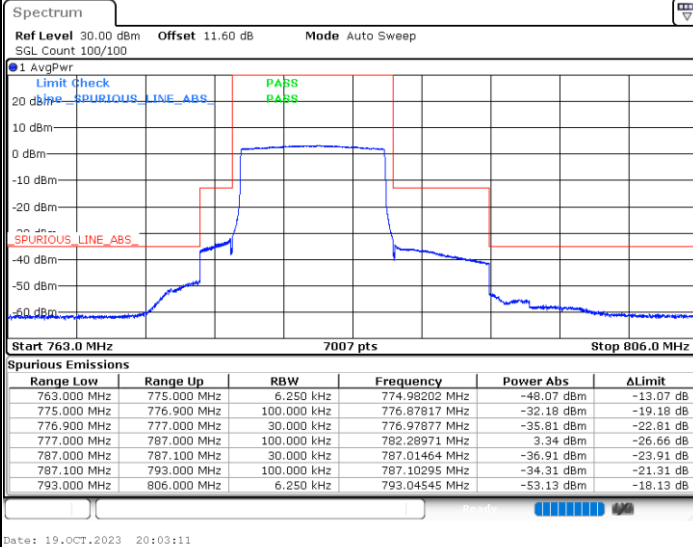


Date: 19.OCT.2023 19:51:26



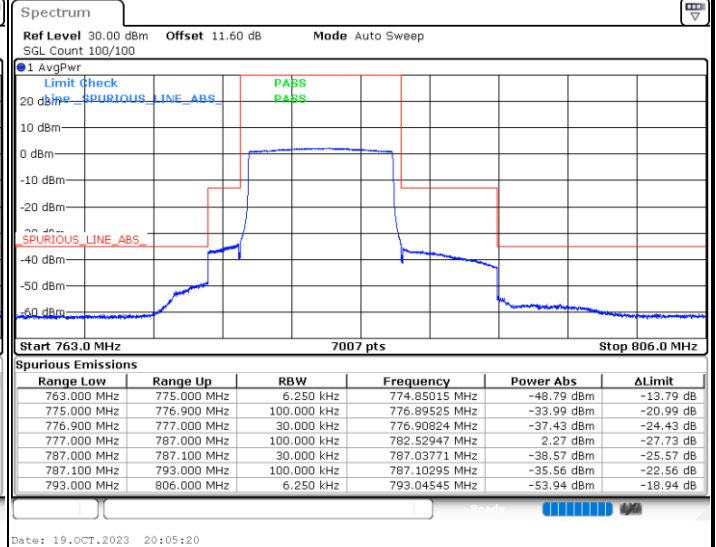
IC LTE Band 13 / 10MHz / QPSK

Band Edge / Full RB



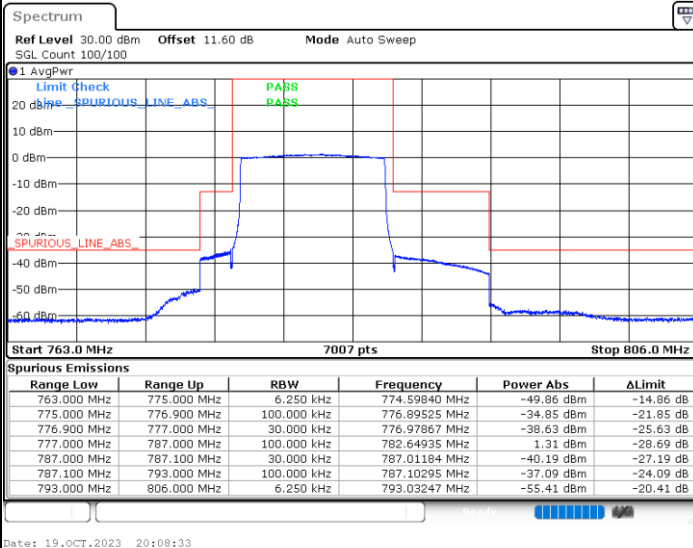
IC LTE Band 13 / 10MHz / 16QAM

Band Edge / Full RB



IC LTE Band 13 / 10MHz / 64QAM

Band Edge / Full RB

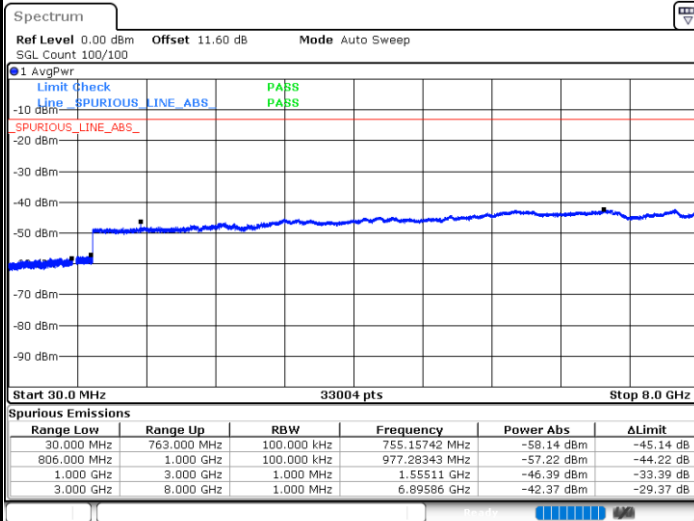




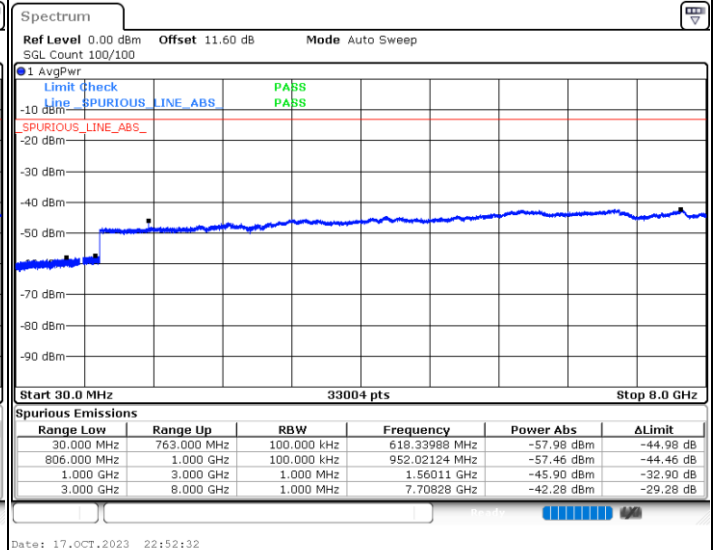
Conducted Spurious Emission

LTE Band 13 / 5MHz

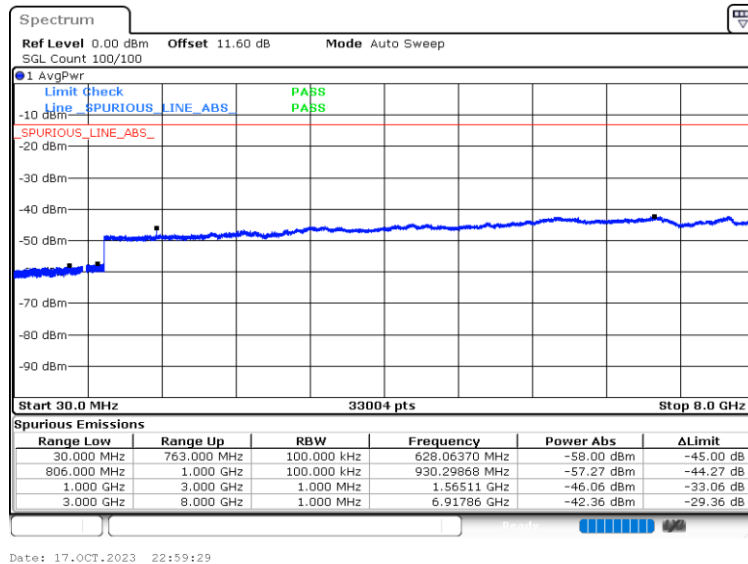
Lowest Channel / QPSK



Middle Channel / QPSK



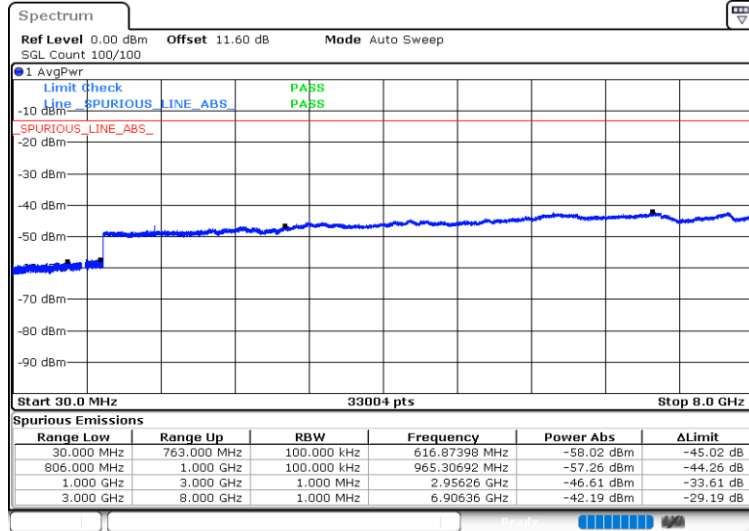
Highest Channel / QPSK





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 17.OCT.2023 23:11:41

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	0.0104	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0081	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0092	
0	Normal Voltage	0.0055	
-10	Normal Voltage	0.0136	
-20	Normal Voltage	0.0157	
-30	Normal Voltage	0.0175	
20	Maximum Voltage	0.0105	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0113	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

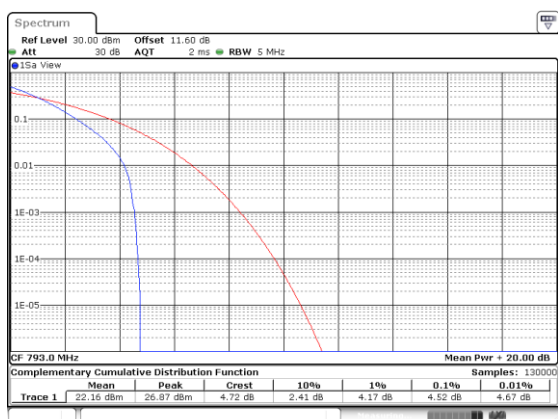
LTE Band 14

Peak-to-Average Ratio

Mode	LTE Band 14 / 5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.52	6.09	6.55	-	PASS
Mode					
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.04	5.54	6.52	-	PASS

LTE Band 14 / 5MHz / QPSK

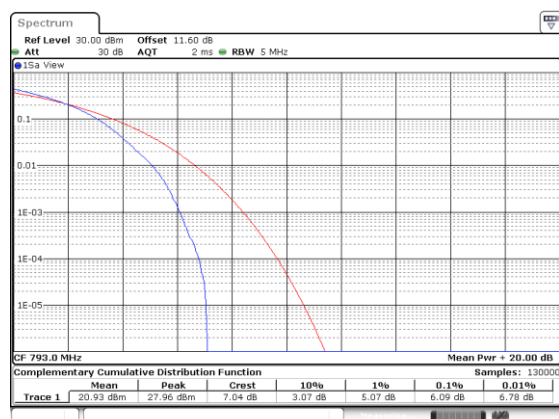
Middle Channel / Full RB



Date: 13.NOV.2023 19:04:154

LTE Band 14 / 5MHz / 16QAM

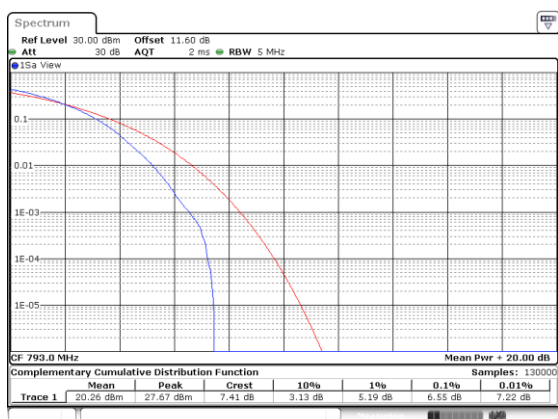
Middle Channel / Full RB



Date: 13.NOV.2023 19:04:124

LTE Band 14 / 5MHz / 64QAM

Middle Channel / Full RB

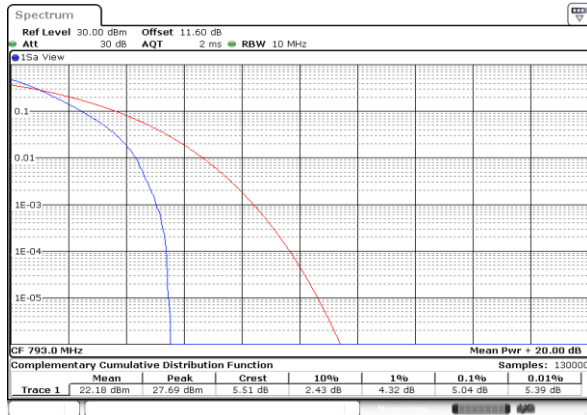


Date: 13.NOV.2023 19:03:154



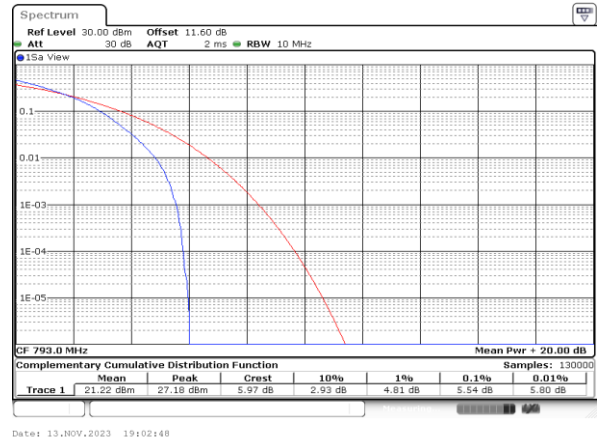
LTE Band 14 / 10MHz / QPSK

Middle Channel / Full RB



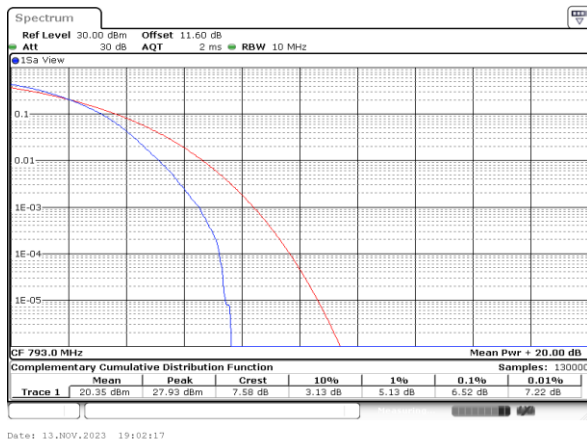
LTE Band 14 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 14 / 10MHz / 64QAM

Middle Channel / Full RB



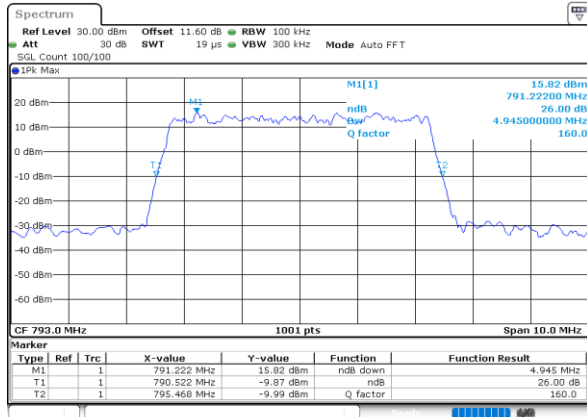
**26dB Bandwidth**

Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	4.81	9.73	9.77	-	-	-	-
Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.89	-	9.87	-	-	-	-	-

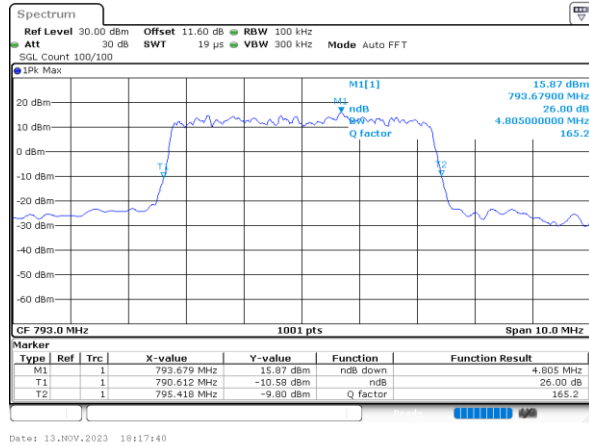


LTE Band 14

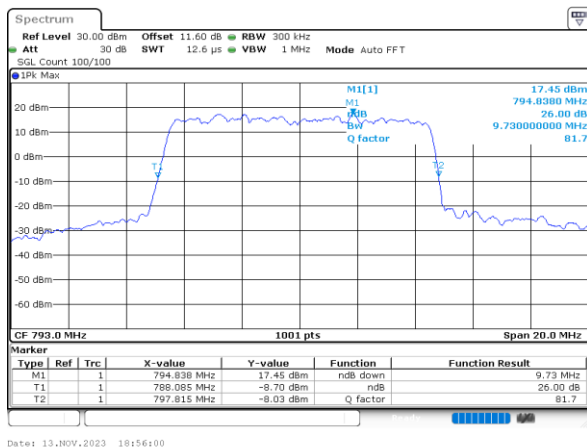
Middle Channel / 5MHz / QPSK



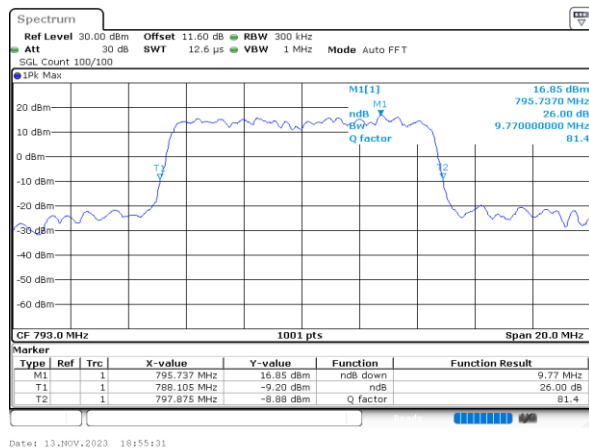
Middle Channel / 5MHz / 16QAM



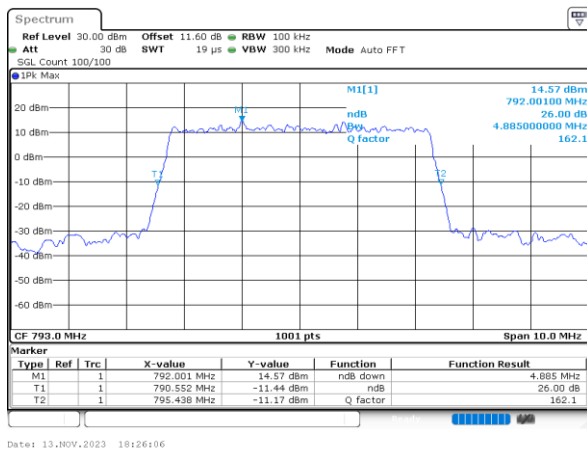
Middle Channel / 10MHz / QPSK



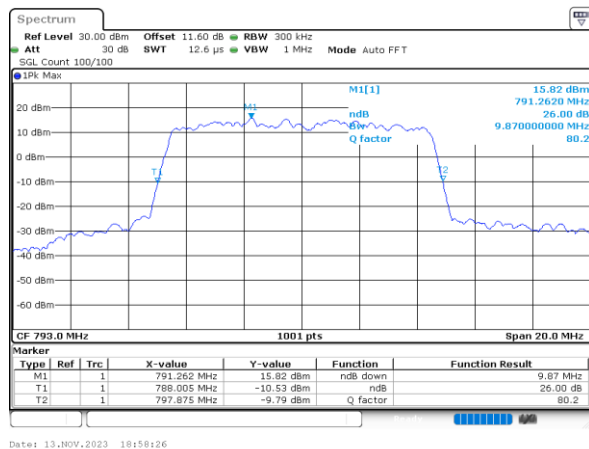
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



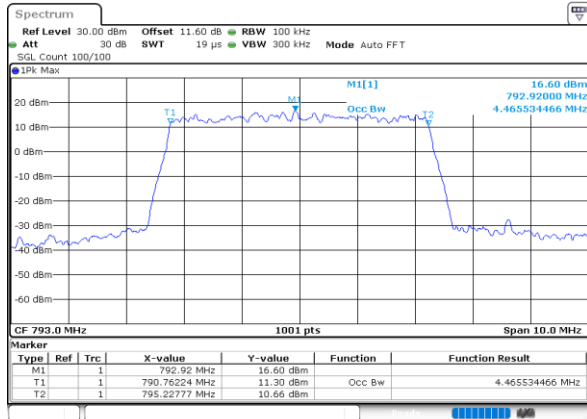
**Occupied Bandwidth**

Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.47	4.49	9.03	8.99	-	-	-	-
Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.51	-	9.05	-	-	-	-	-

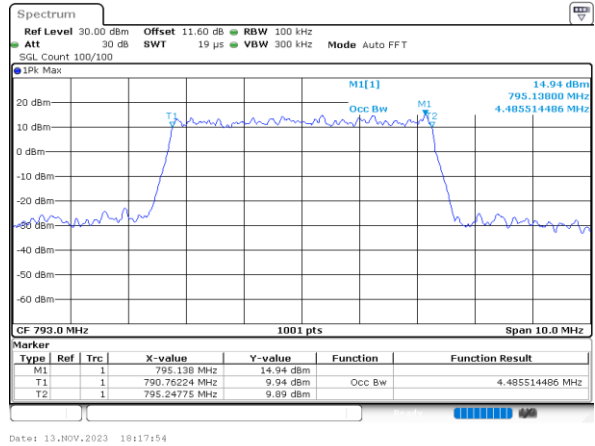


LTE Band 14

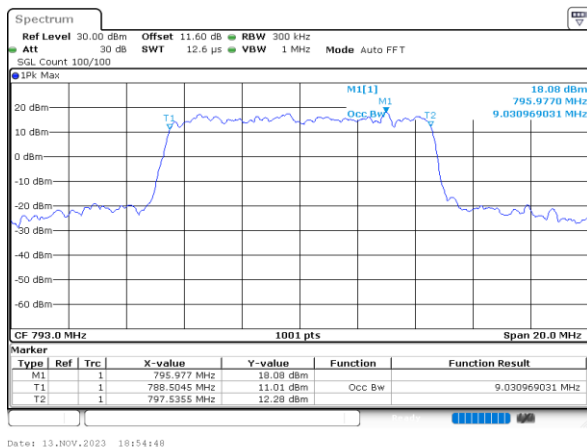
Middle Channel / 5MHz / QPSK



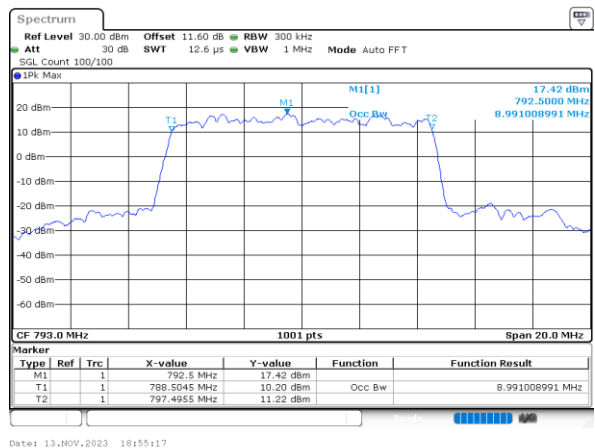
Middle Channel / 5MHz / 16QAM



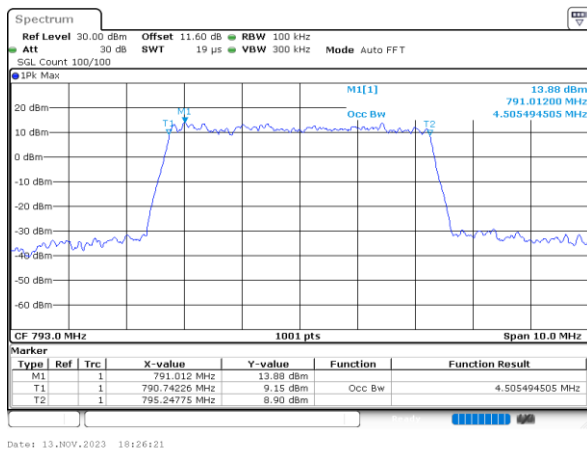
Middle Channel / 10MHz / QPSK



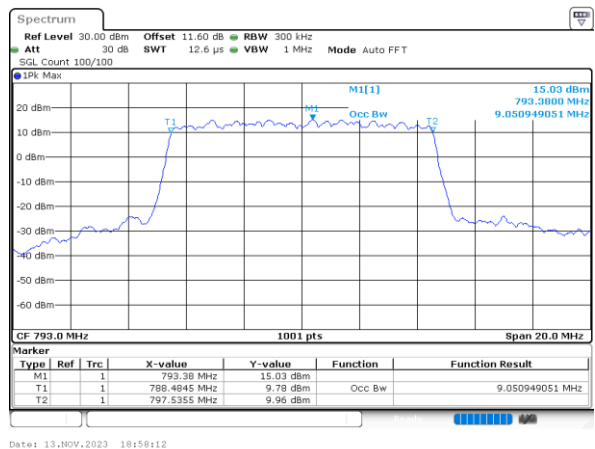
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

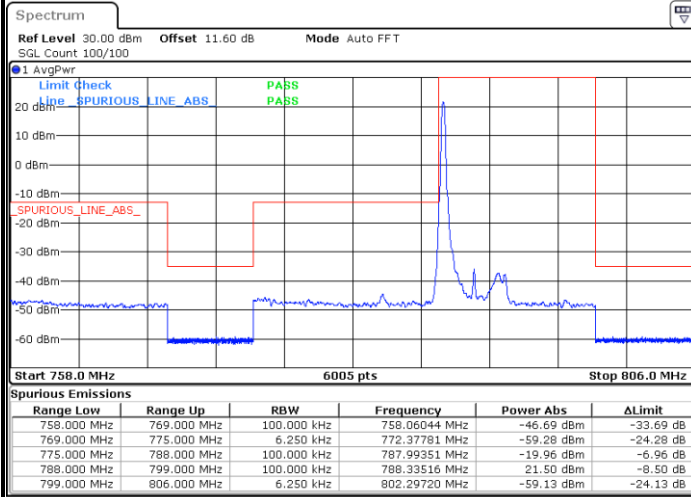




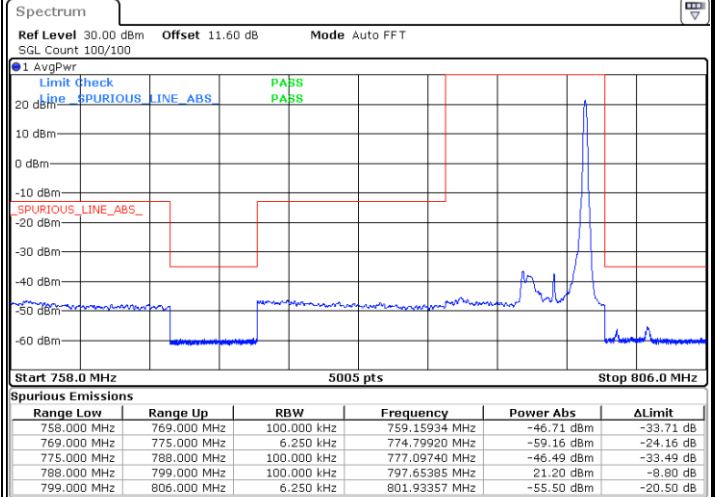
Conducted Band Edge

LTE Band 14 / 5MHz / QPSK

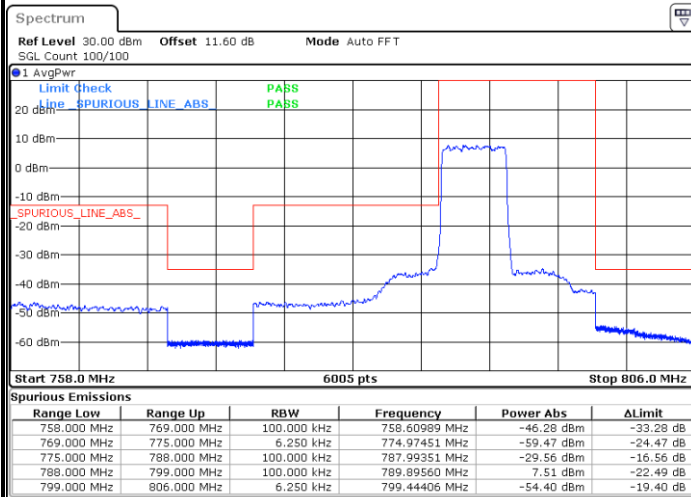
Lowest Band Edge / 1 RB



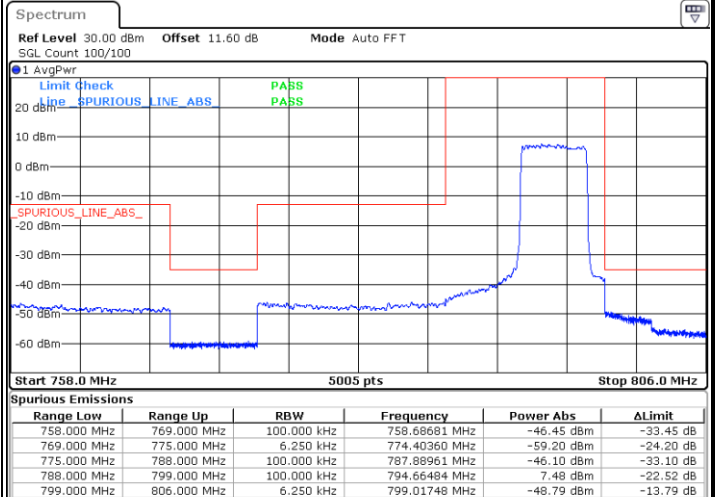
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



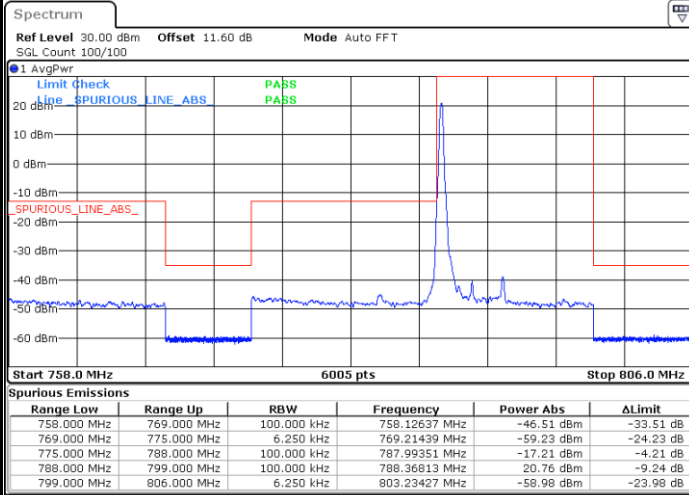
Highest Band Edge / Full RB



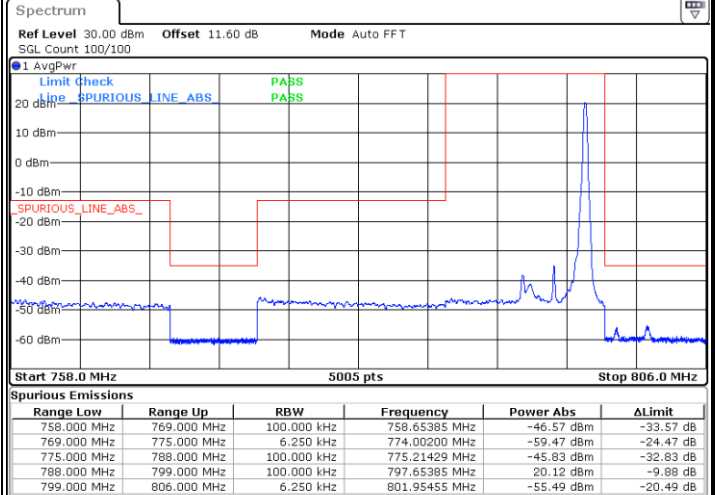


LTE Band 14 / 5MHz / 16QAM

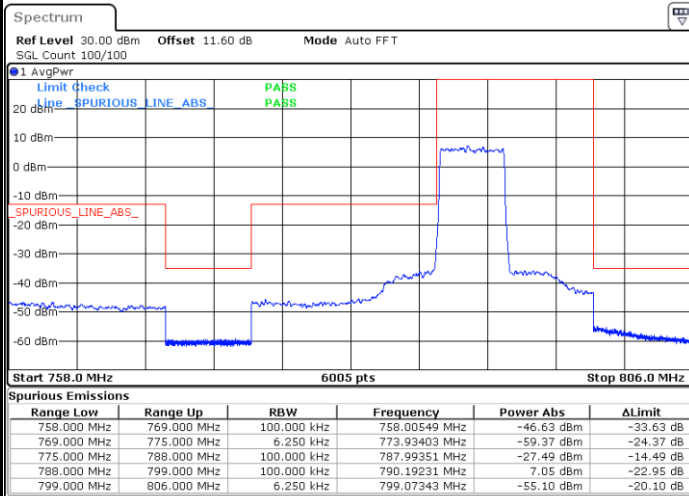
Lowest Band Edge / 1 RB



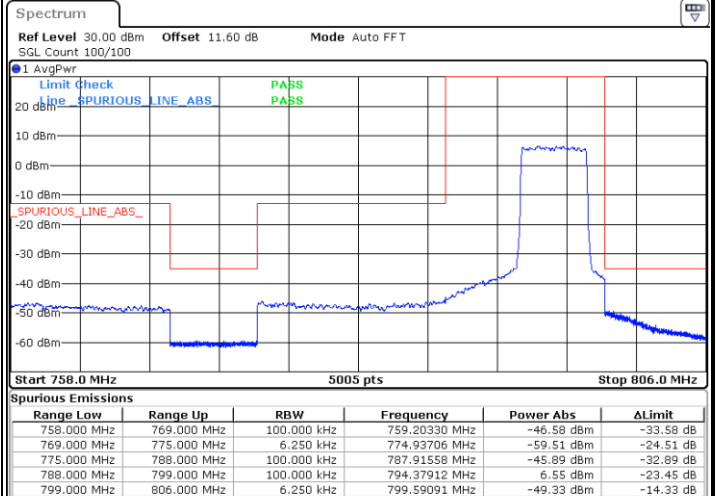
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



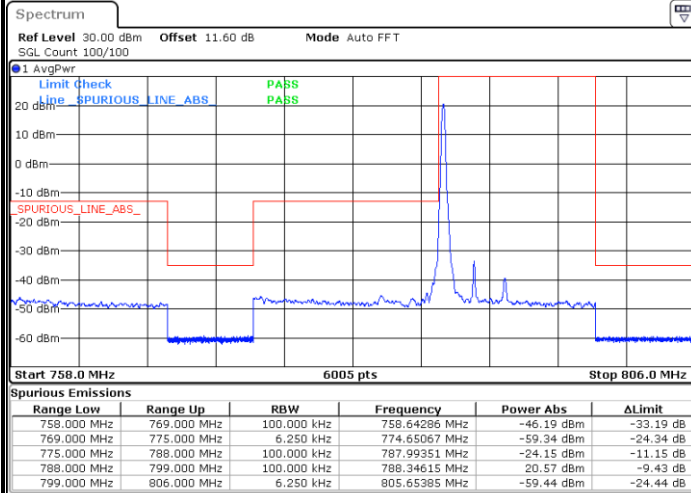
Highest Band Edge / Full RB





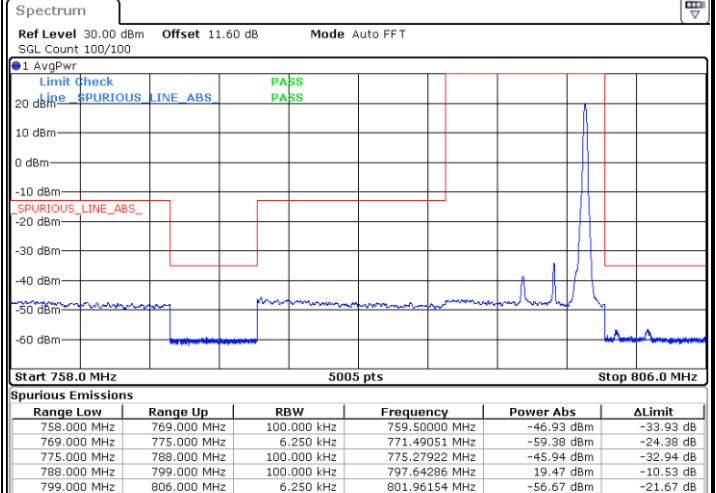
LTE Band 14 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



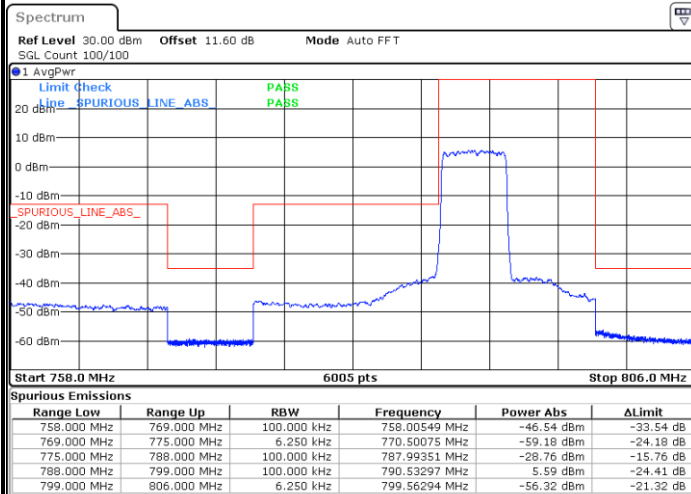
Date: 13.NOV.2023 18:25:36

Highest Band Edge / 1 RB



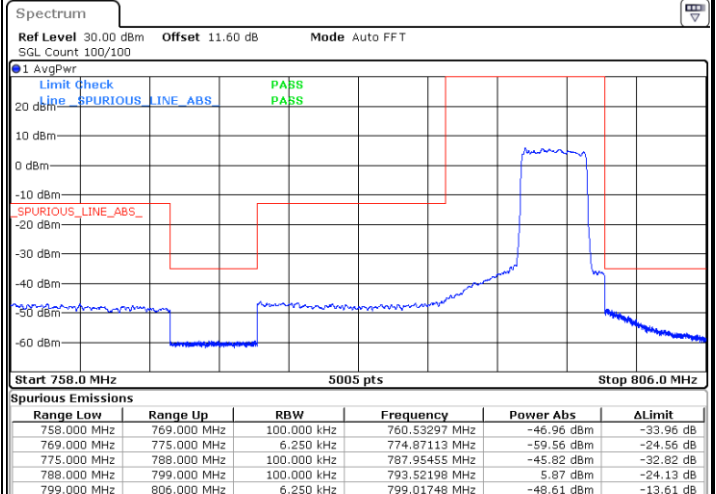
Date: 13.NOV.2023 18:28:18

Lowest Band Edge / Full RB



Date: 13.NOV.2023 18:24:37

Highest Band Edge / Full RB



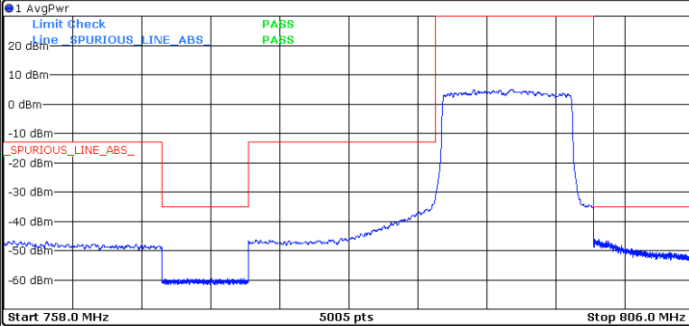
Date: 13.NOV.2023 18:27:18



LTE Band 14 / 10MHz / QPSK

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.60 dB Mode Auto FFT
SGL Count 100/100

Spurious Emissions

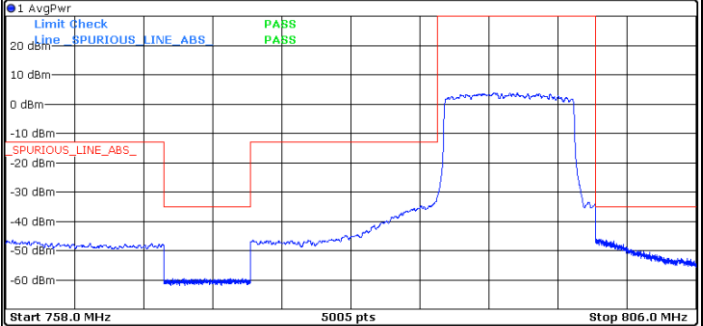
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.68681 MHz	-46.82 dBm	-33.82 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.78921 MHz	-59.52 dBm	-24.52 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-32.80 dBm	-19.80 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.34615 MHz	4.98 dBm	-25.02 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.05245 MHz	-46.16 dBm	-11.16 dB

Date: 13.NOV.2023 18:56:43

LTE Band 14 / 10MHz / 16QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.60 dB Mode Auto FFT
SGL Count 100/100

Spurious Emissions

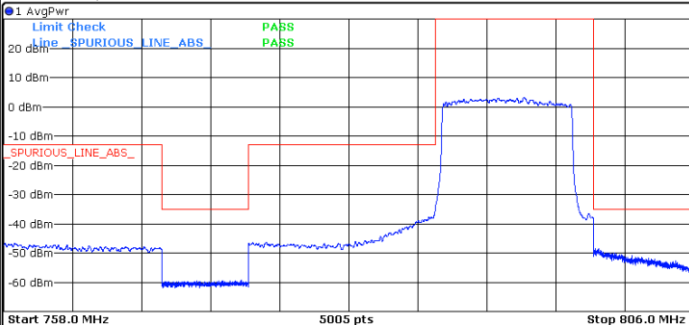
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.46703 MHz	-46.57 dBm	-33.57 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.60040 MHz	-59.42 dBm	-24.42 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-31.80 dBm	-18.80 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.06044 MHz	3.82 dBm	-26.18 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.09441 MHz	-46.09 dBm	-11.09 dB

Date: 13.NOV.2023 18:57:42

LTE Band 14 / 10MHz / 64QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.60 dB Mode Auto FFT
SGL Count 100/100

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.77473 MHz	-46.68 dBm	-33.68 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.53546 MHz	-59.32 dBm	-24.32 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-35.80 dBm	-22.80 dB
788.000 MHz	799.000 MHz	100.000 kHz	794.17033 MHz	3.14 dBm	-26.86 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.10140 MHz	-48.43 dBm	-13.43 dB

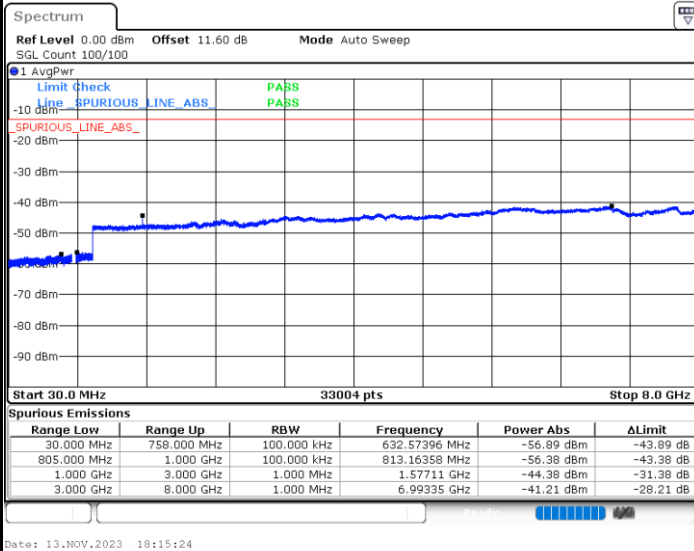
Date: 13.NOV.2023 18:59:09



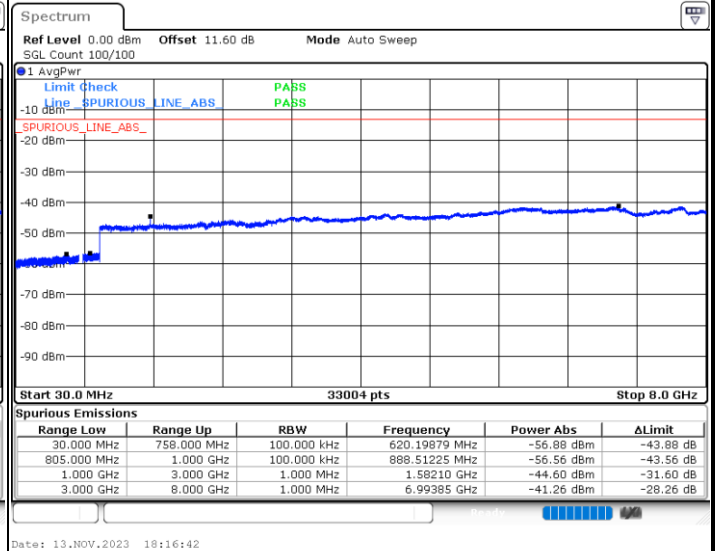
Conducted Spurious Emission

LTE Band 14 / 5MHz

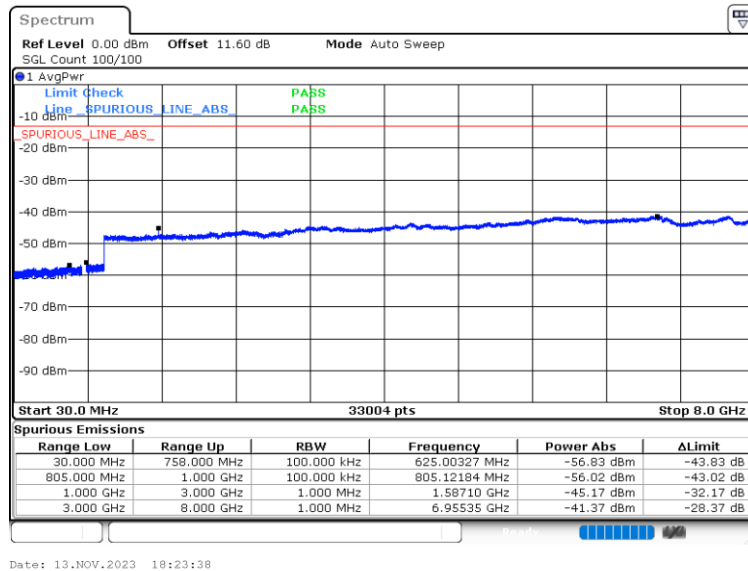
Lowest Channel / QPSK



Middle Channel / QPSK



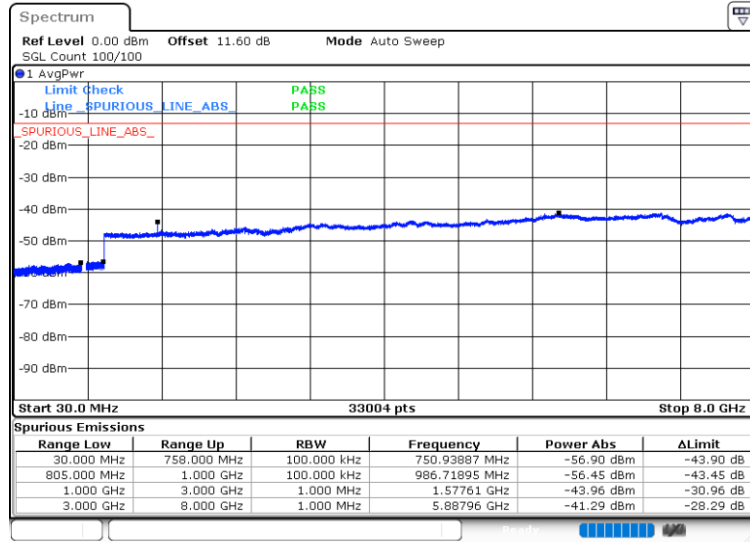
Highest Channel / QPSK



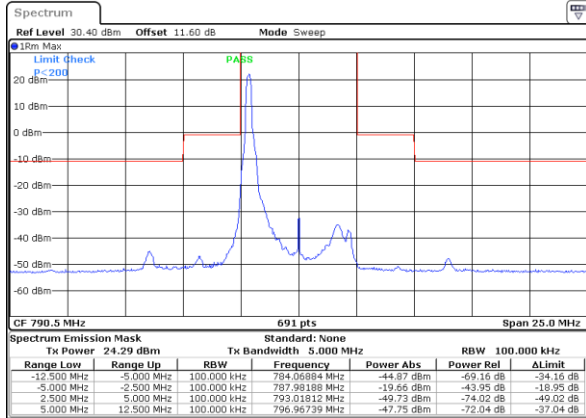


LTE Band 14 / 10MHz

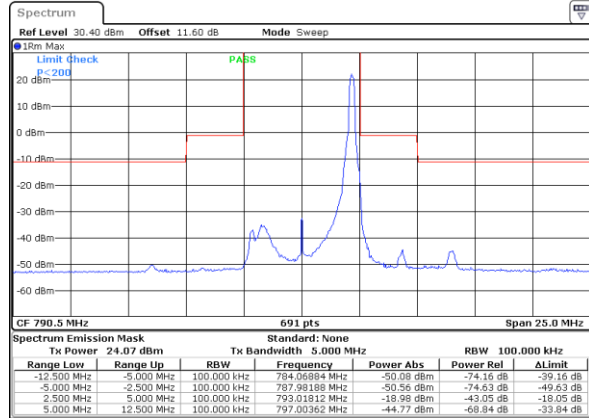
Middle Channel / QPSK



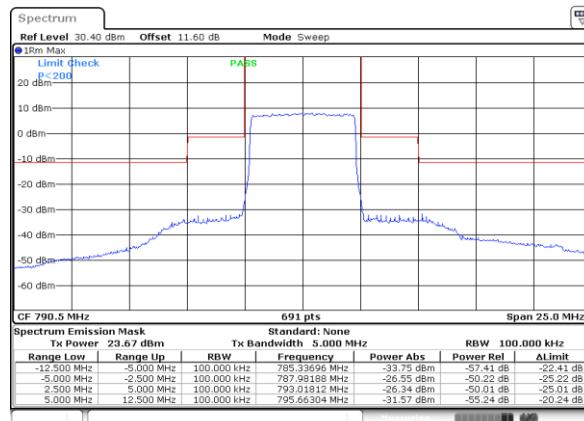
Date: 13.NOV.2023 19:06:17

**Mask****LTE Band 14 / 5MHz / QPSK****Lowest Channel / 1RB**

Date: 13.NOV.2023 18:34:05



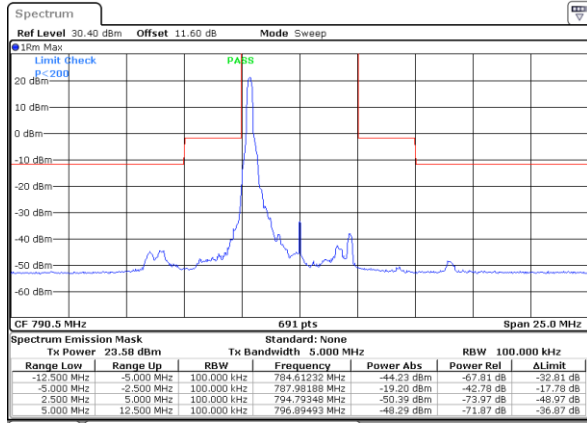
Date: 13.NOV.2023 18:35:03

Lowest Channel / Full RB

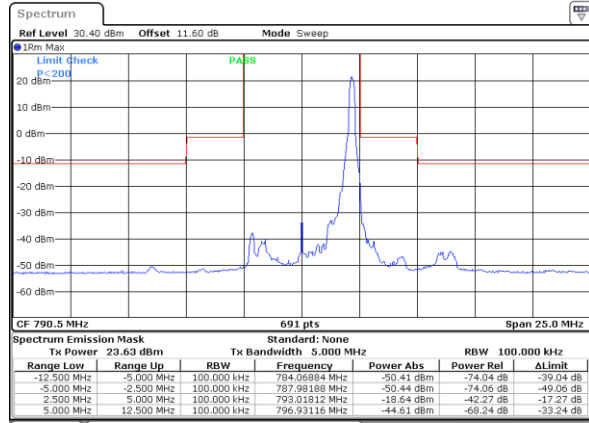
Date: 13.NOV.2023 18:29:17

LTE Band 14 / 5MHz / 16QAM

Lowest Channel / 1RB

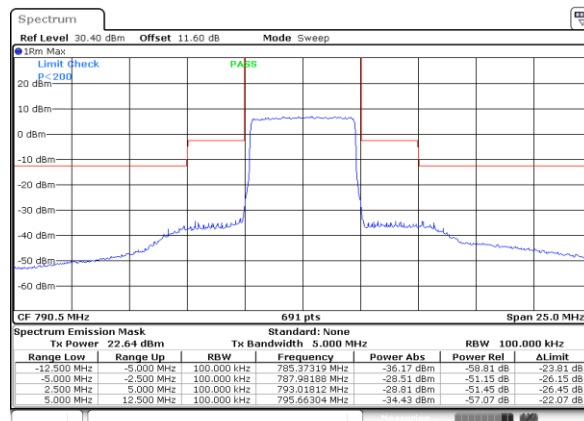


Date: 13.NOV.2023 18:33:07



Date: 13.NOV.2023 18:36:01

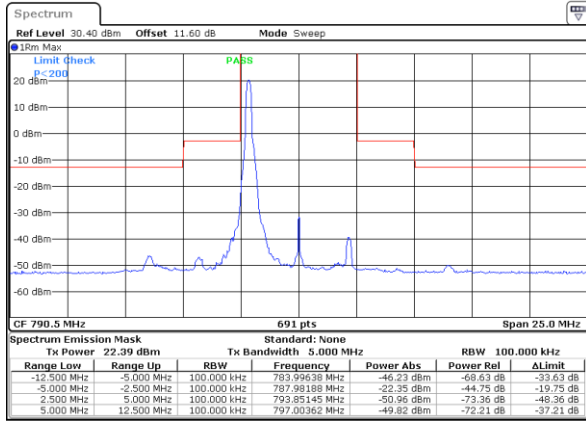
Lowest Channel / Full RB



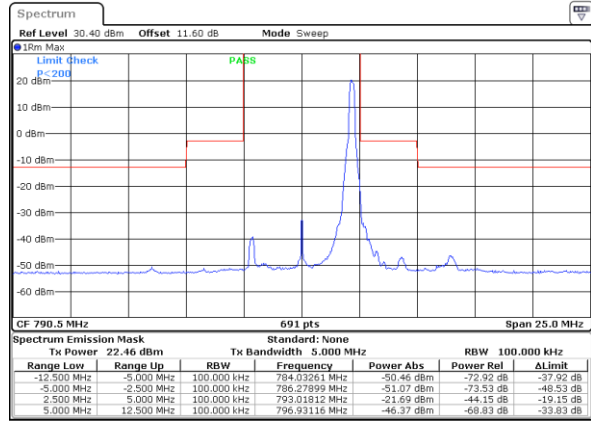
Date: 13.NOV.2023 18:30:14

LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB

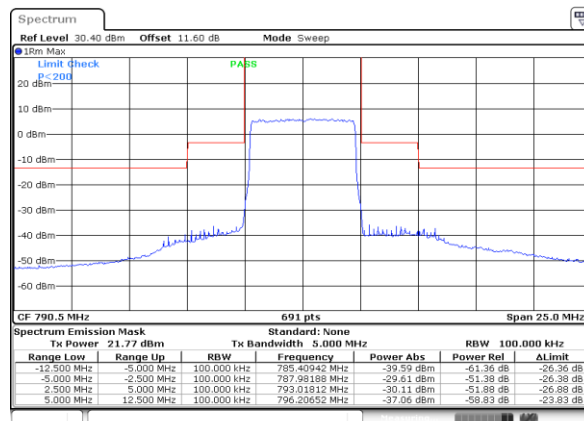


Date: 13.NOV.2023 18:32:10



Date: 13.NOV.2023 18:36:59

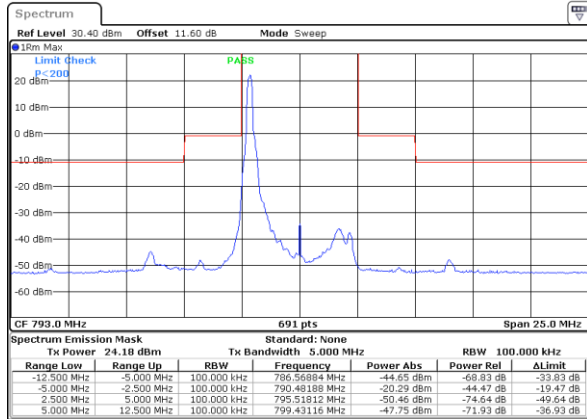
Lowest Channel / Full RB



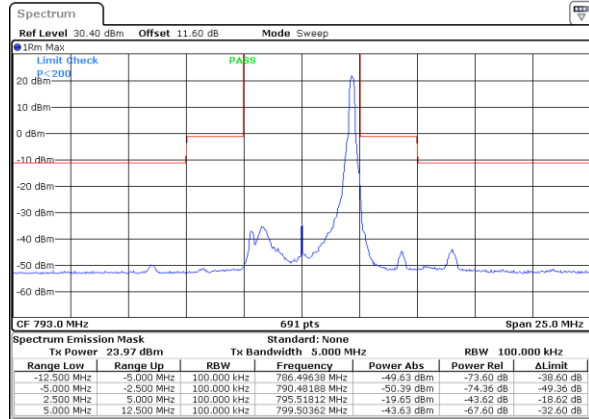
Date: 13.NOV.2023 18:31:12

LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB

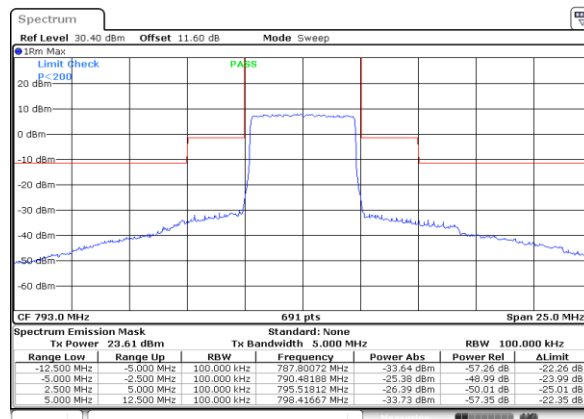


Date: 13.NOV.2023 18:40:47



Date: 13.NOV.2023 18:39:50

Middle Channel / Full RB

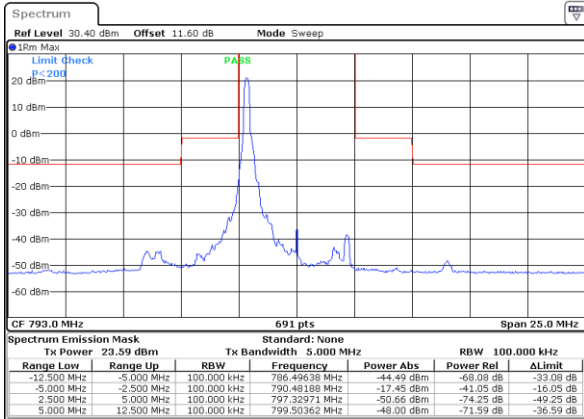


Date: 13.NOV.2023 18:45:34

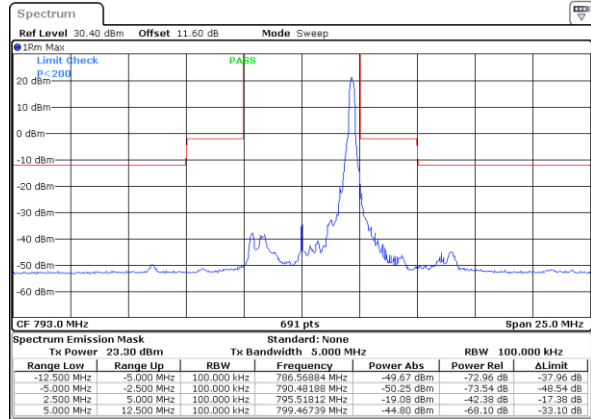


LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB

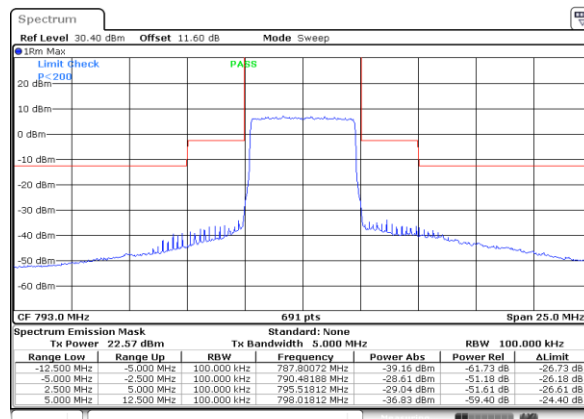


Date: 13.NOV.2023 18:41:45



Date: 13.NOV.2023 18:38:53

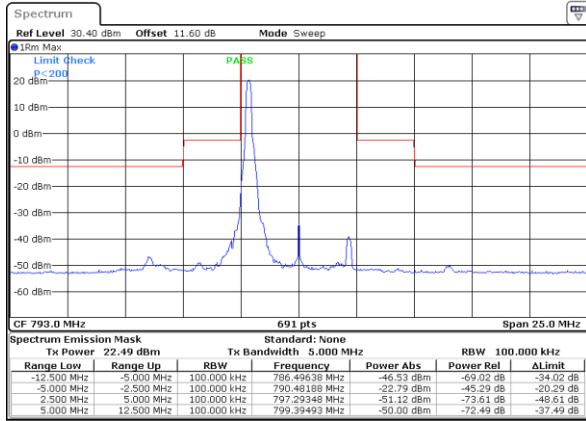
Middle Channel / Full RB



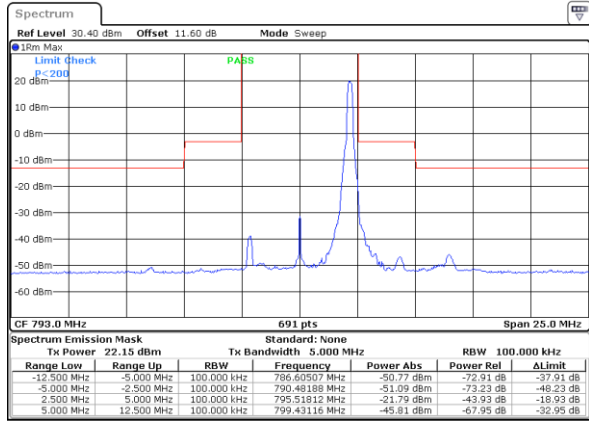
Date: 13.NOV.2023 18:44:36

LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB

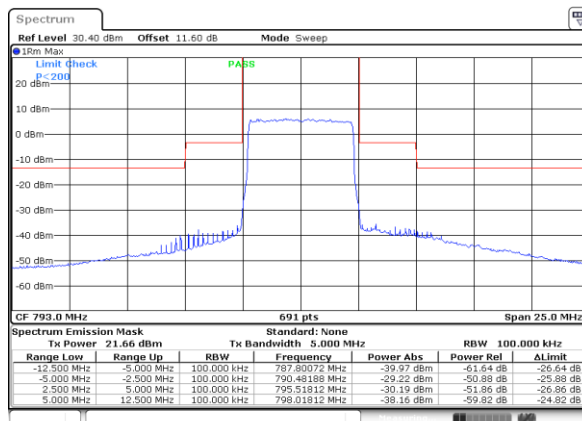


Date: 13.NOV.2023 18:42:42



Date: 13.NOV.2023 18:37:56

Middle Channel / Full RB

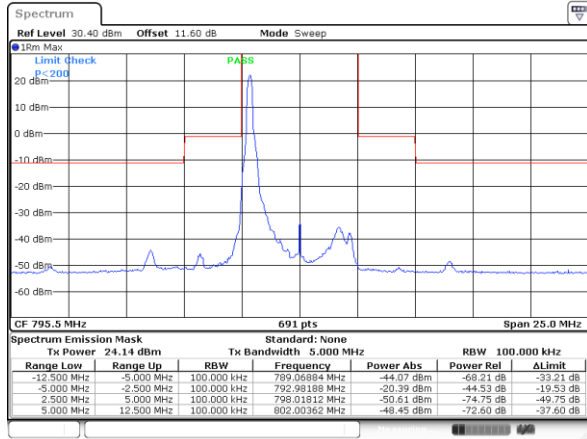


Date: 13.NOV.2023 18:43:39

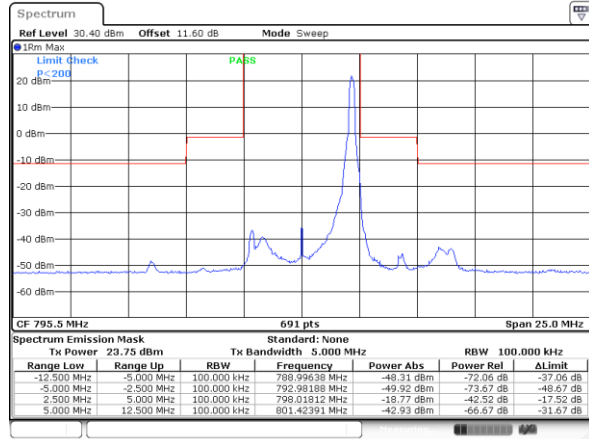


LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB

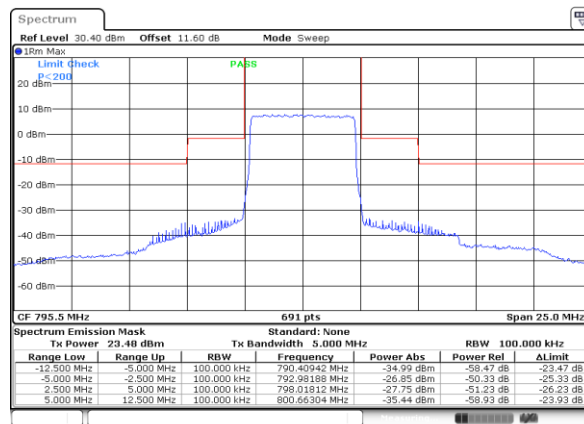


Date: 13.NOV.2023 18:51:20



Date: 13.NOV.2023 18:52:17

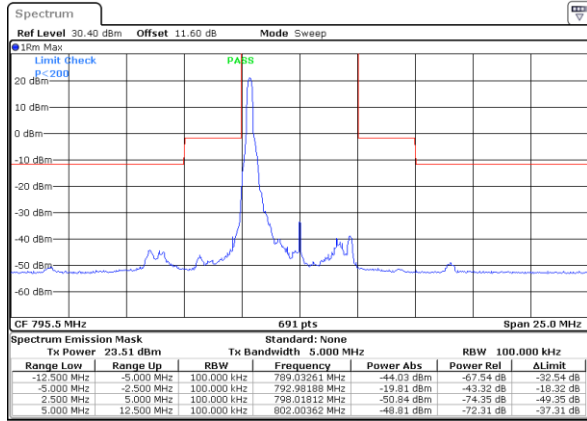
Highest Channel / Full RB



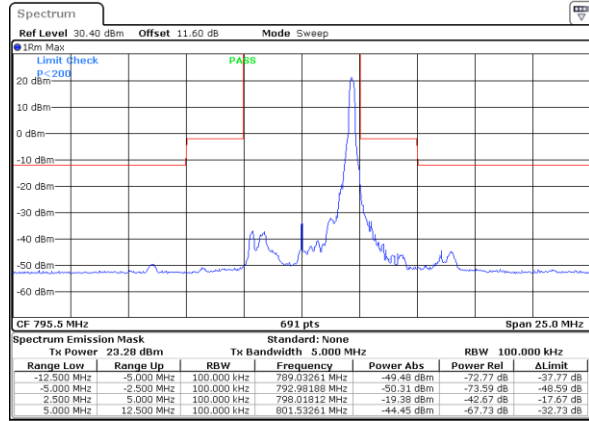
Date: 13.NOV.2023 18:46:31

LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB

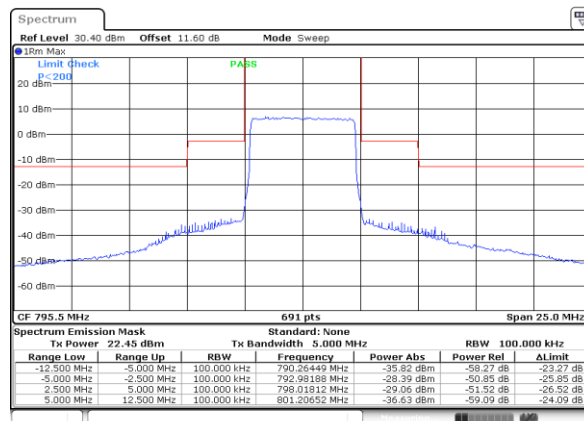


Date: 13.NOV.2023 18:50:22



Date: 13.NOV.2023 18:53:15

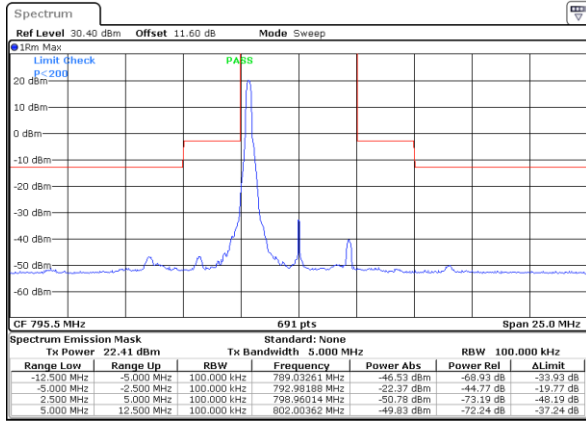
Highest Channel / Full RB



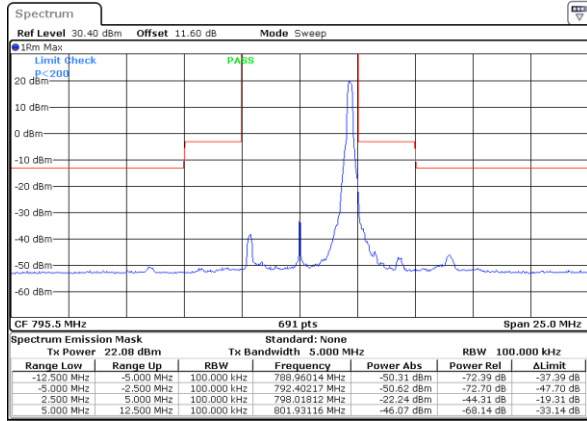
Date: 13.NOV.2023 18:47:29

LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB

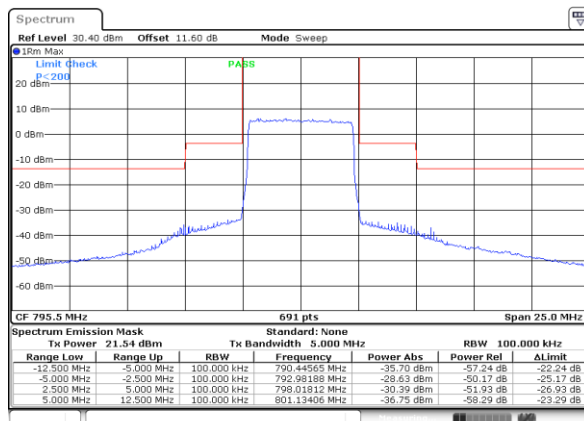


Date: 13.NOV.2023 18:49:24



Date: 13.NOV.2023 18:54:13

Highest Channel / Full RB

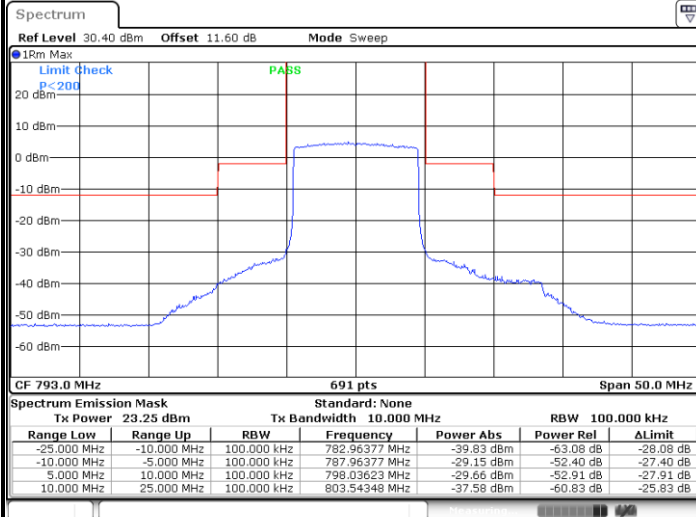


Date: 13.NOV.2023 18:48:27



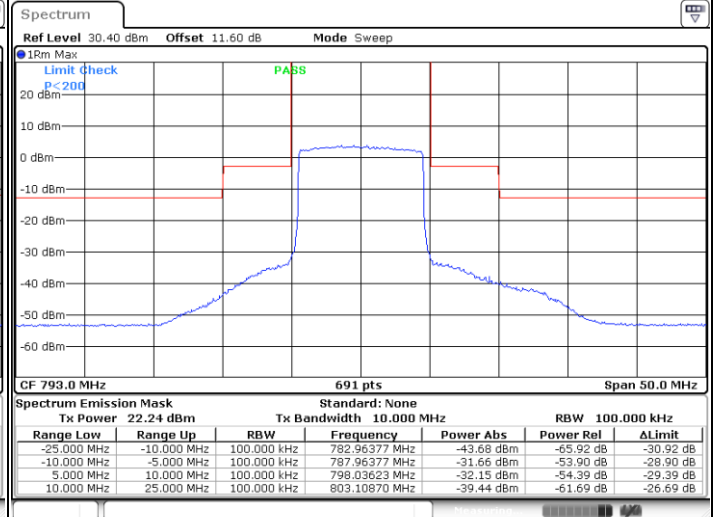
LTE Band 14 / 10MHz / QPSK

Middle Channel / Full RB



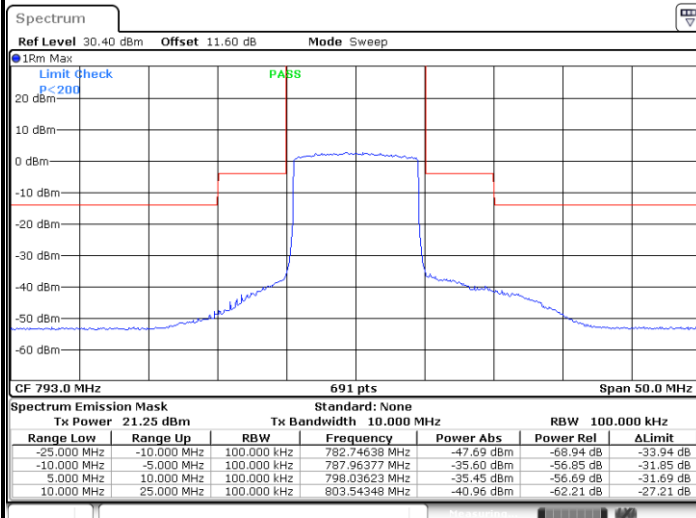
LTE Band 14 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 14 / 10MHz / 64QAM

Middle Channel / Full RB



Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0053	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0049	
-20	Normal Voltage	0.0189	
-30	Normal Voltage	0.0110	
20	Maximum Voltage	0.0159	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage = 4.0 V. ; Battery End Point (BEP) = 3.8 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.