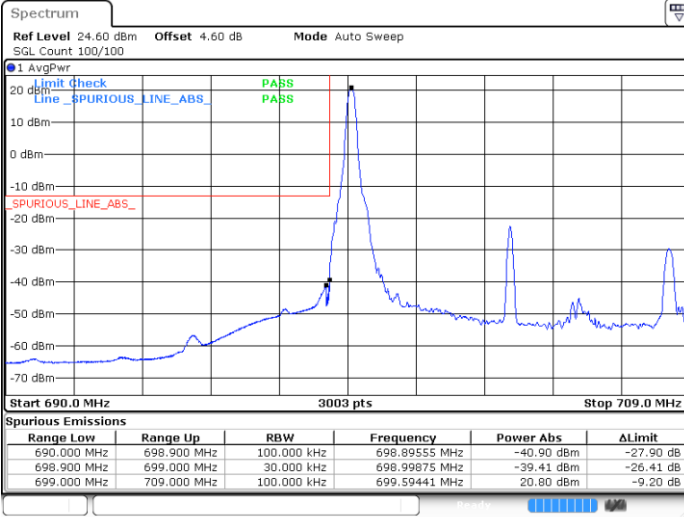




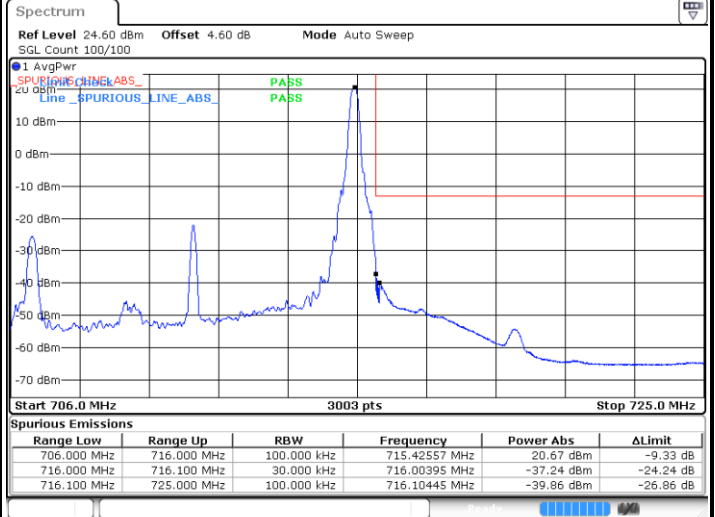
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



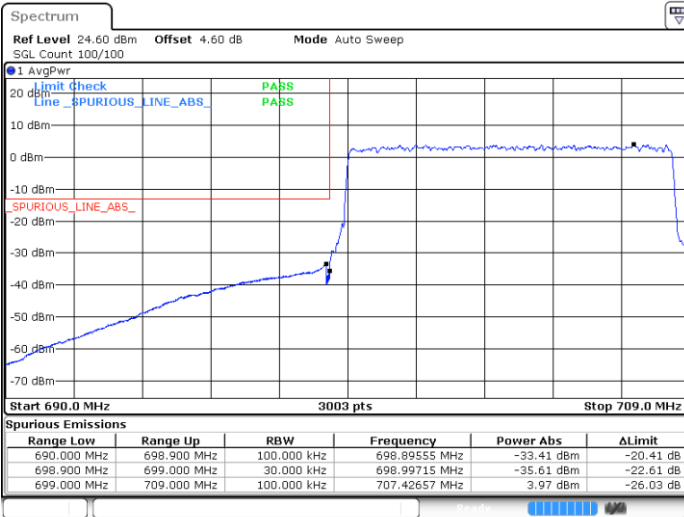
Date: 15. DEC. 2023 09:58:19



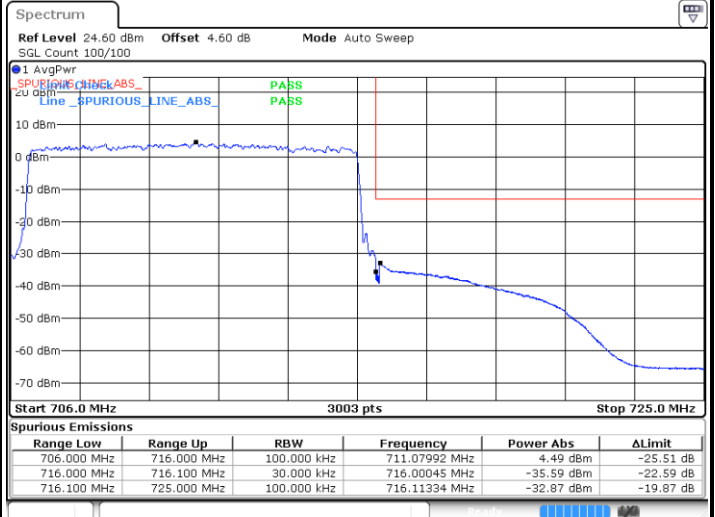
Date: 15. DEC. 2023 10:07:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15. DEC. 2023 10:02:33

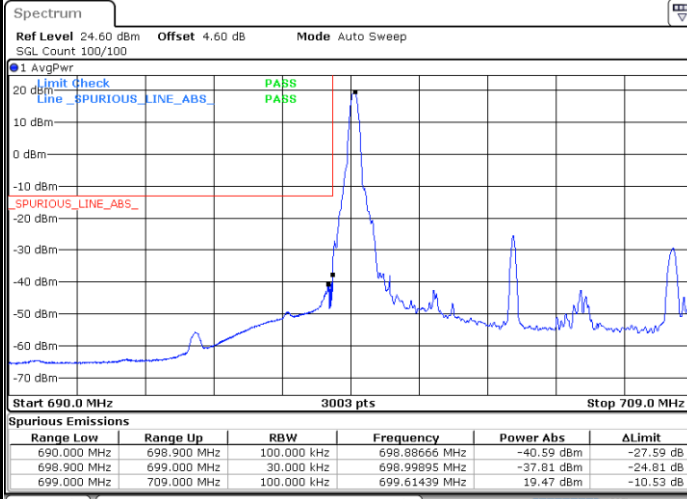


Date: 15. DEC. 2023 10:12:11



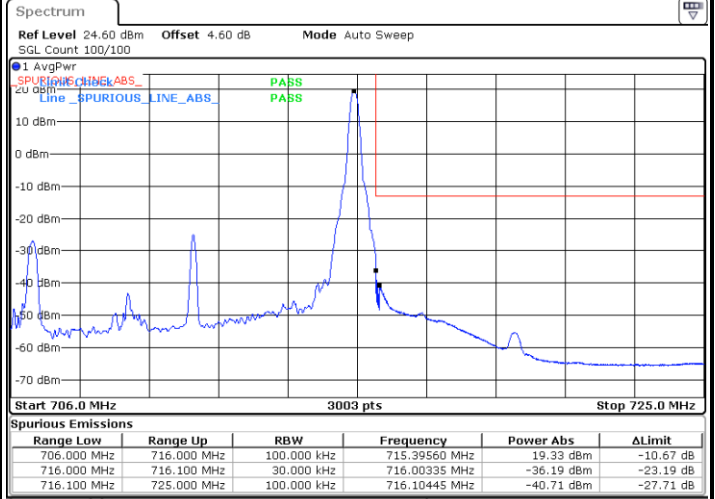
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



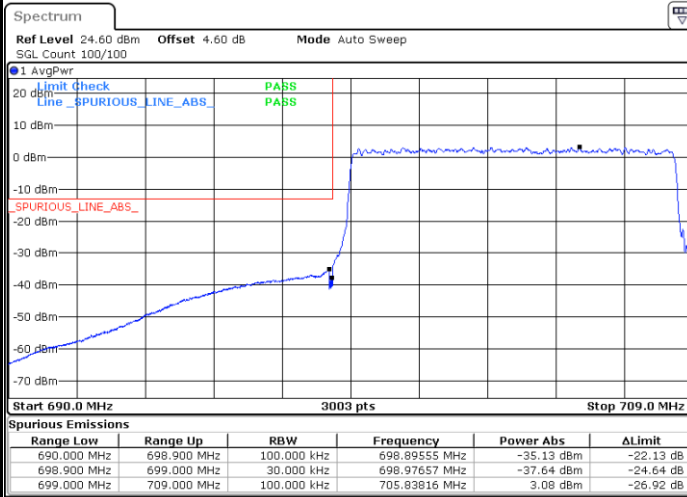
Date: 15. DEC 2023 09:59:44

Highest Band Edge / 1 RB



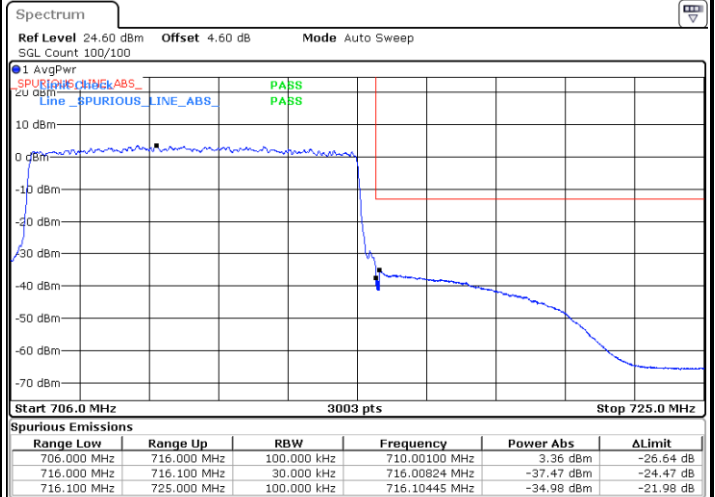
Date: 15. DEC 2023 10:09:22

Lowest Band Edge / Full RB



Date: 15. DEC 2023 10:01:08

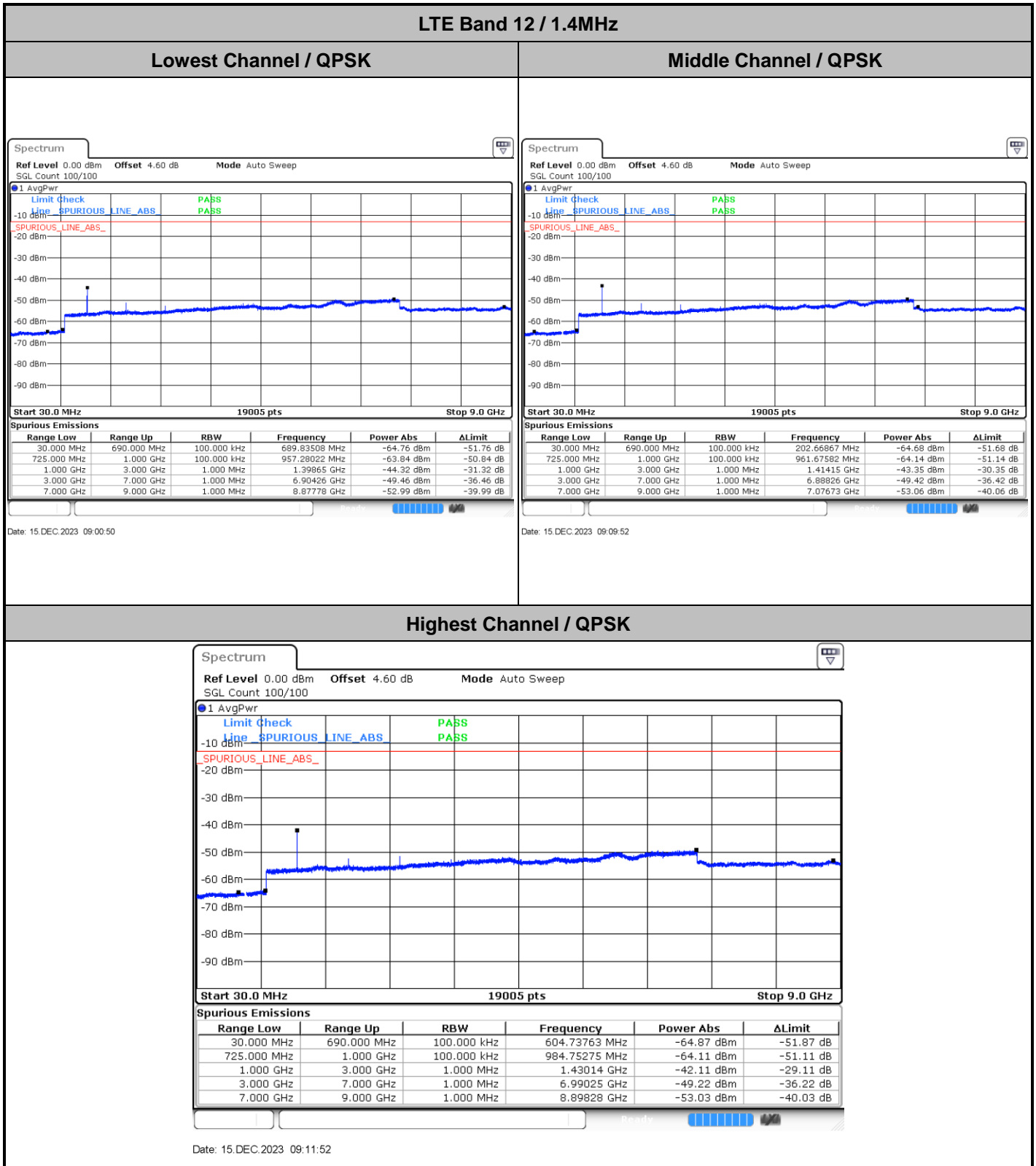
Highest Band Edge / Full RB



Date: 15. DEC 2023 10:10:46



Conducted Spurious Emission

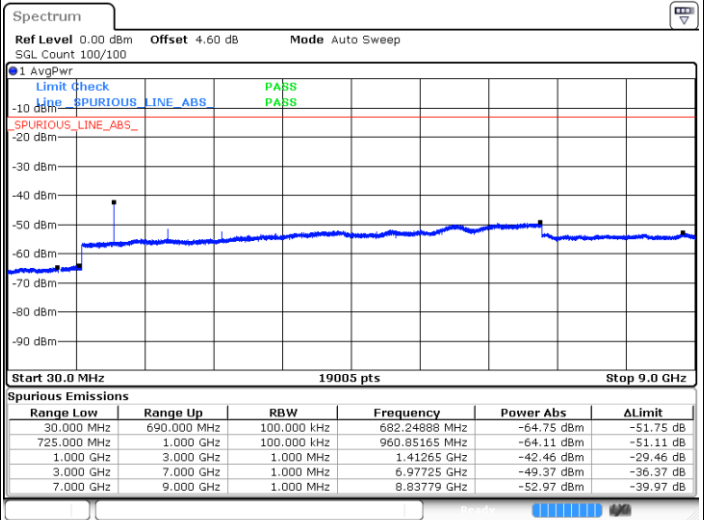
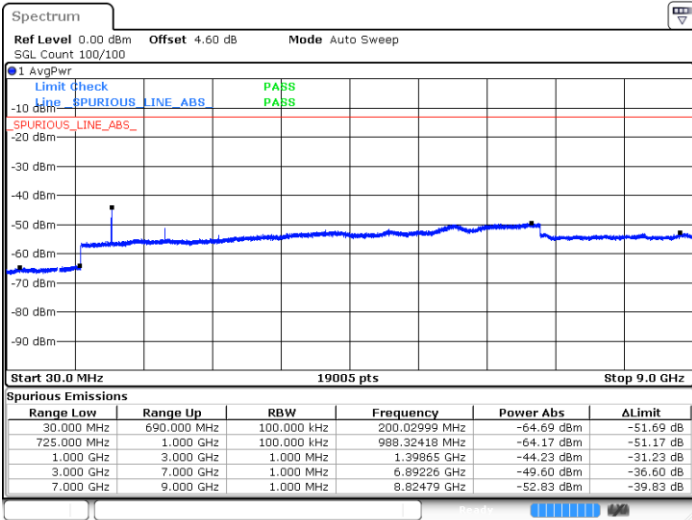




LTE Band 12 / 3MHz

Lowest Channel / QPSK

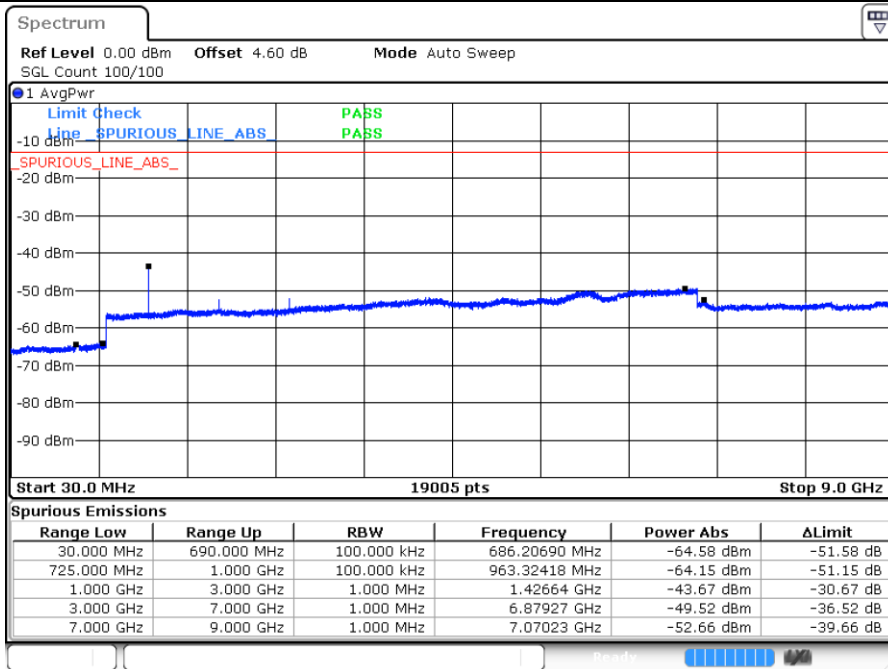
Middle Channel / QPSK



Date: 15.DEC.2023 09:19:31

Date: 15.DEC.2023 09:28:33

Highest Channel / QPSK



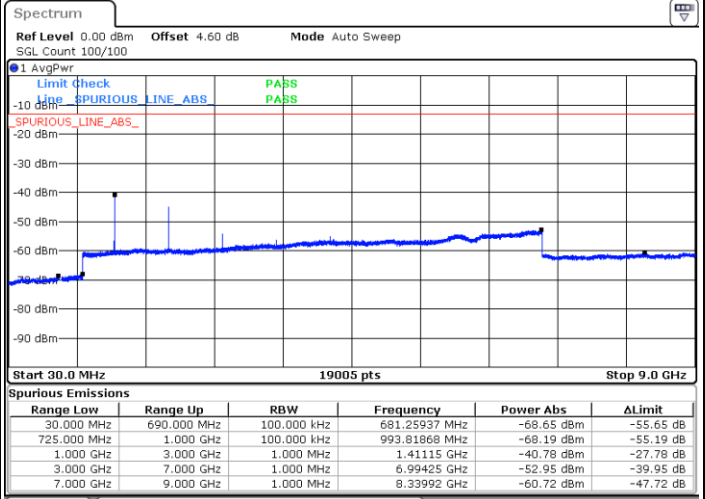
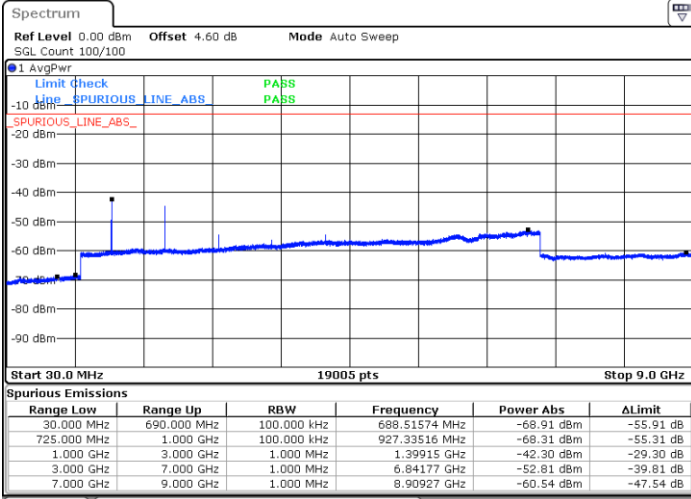
Date: 15.DEC.2023 09:30:33



LTE Band 12 / 5MHz

Lowest Channel / QPSK

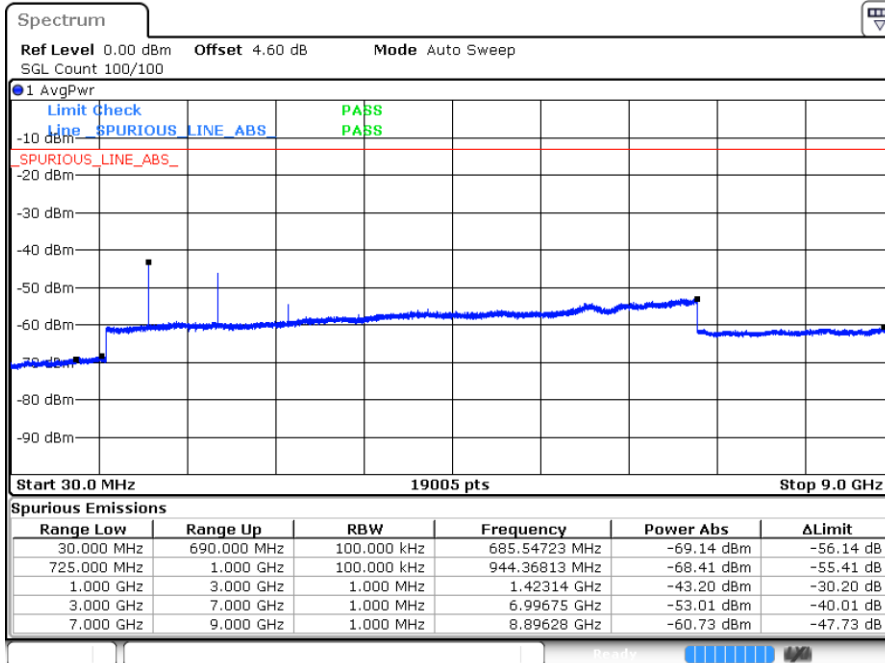
Middle Channel / QPSK



Date: 15 DEC. 2023 09:38:12

Date: 15 DEC. 2023 09:47:15

Highest Channel / QPSK



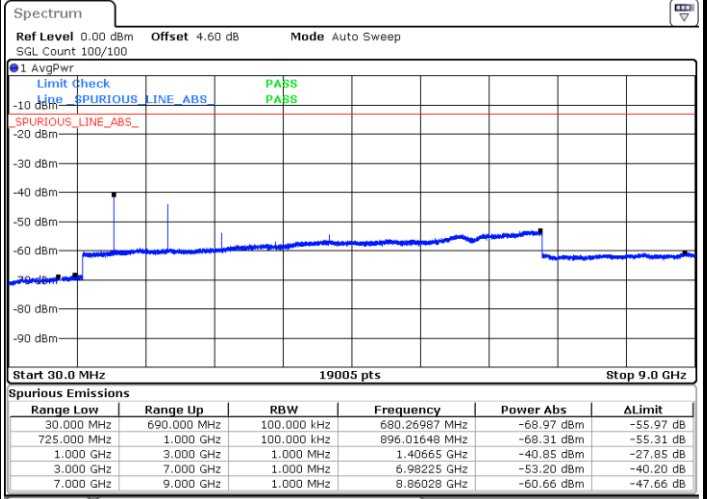
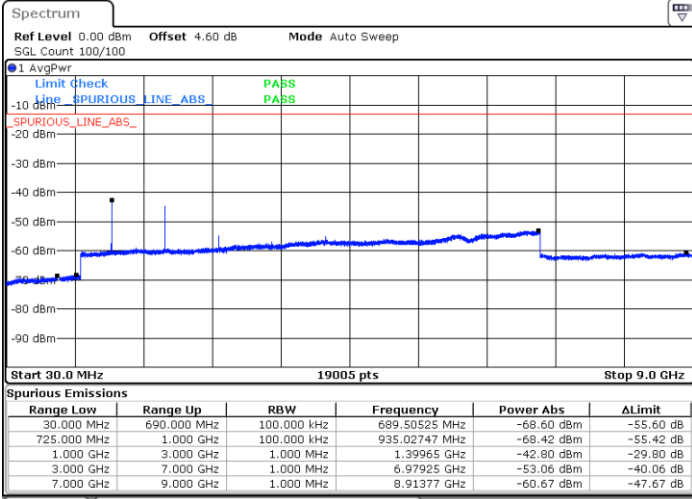
Date: 15 DEC. 2023 09:49:15



LTE Band 12 / 10MHz

Lowest Channel / QPSK

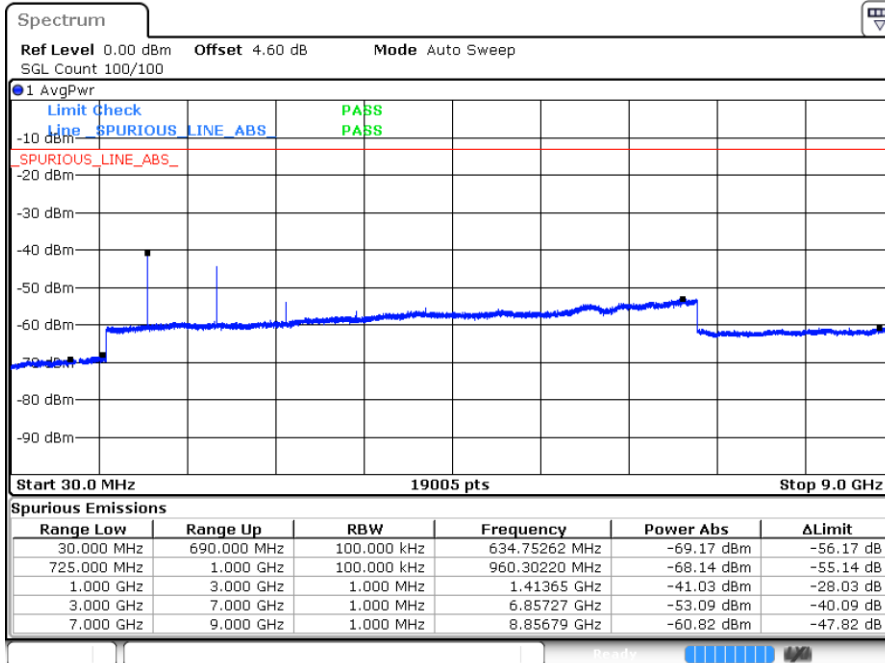
Middle Channel / QPSK



Date: 15 DEC.2023 09:56:55

Date: 15 DEC.2023 10:04:32

Highest Channel / QPSK



Date: 15 DEC.2023 10:06:32



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0037	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0018	
20	Minimum Voltage	0.0009	

Note:

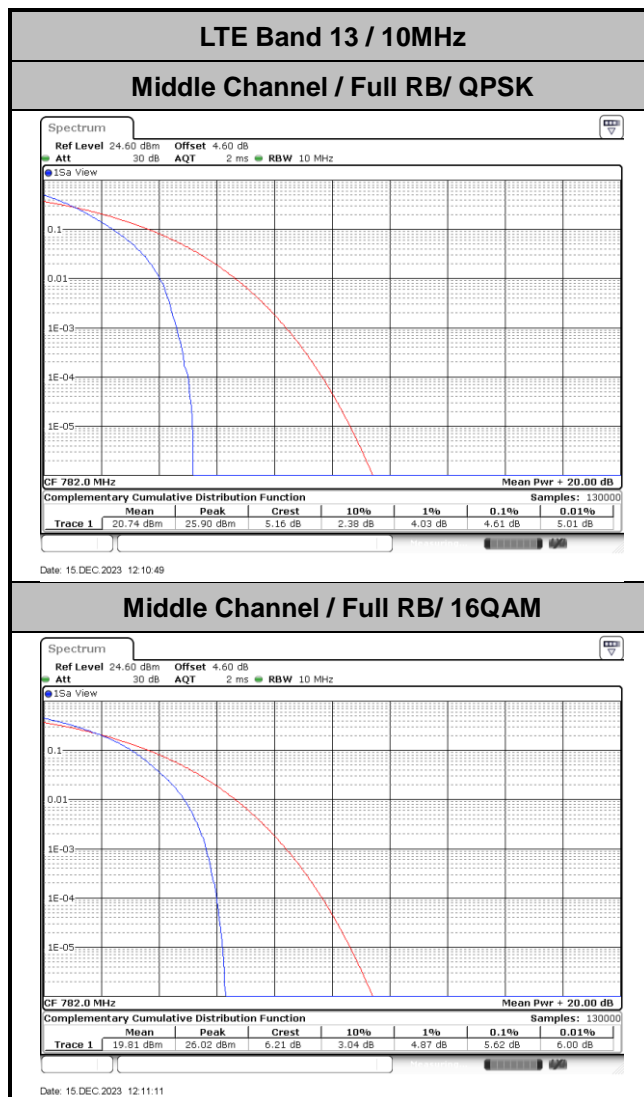
1. Normal Voltage =13 V. ; Minimum Voltage =12 V. ; Maximum Voltage =30 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

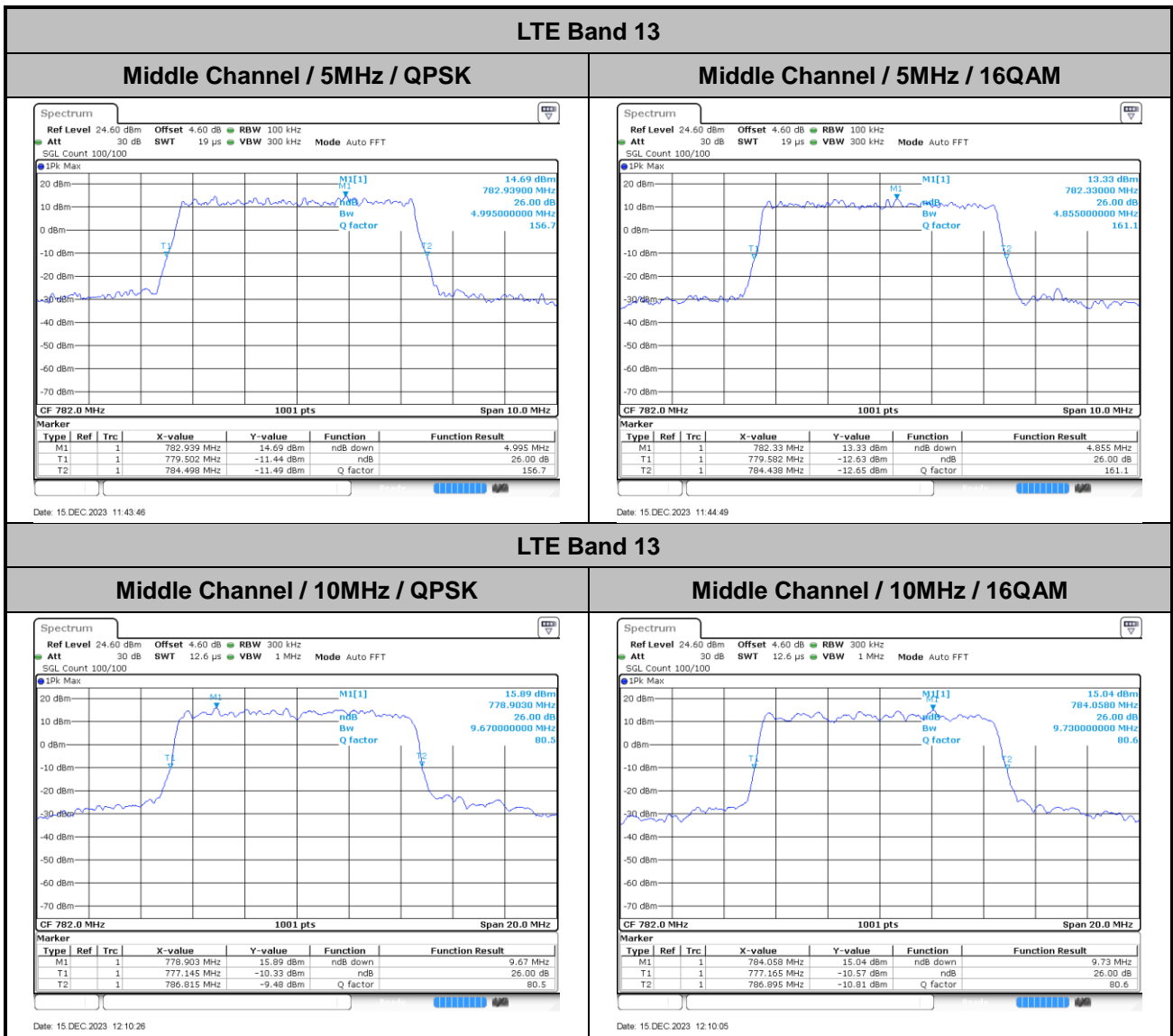
Mode	LTE Band 13 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.61	5.62	PASS





26dB Bandwidth

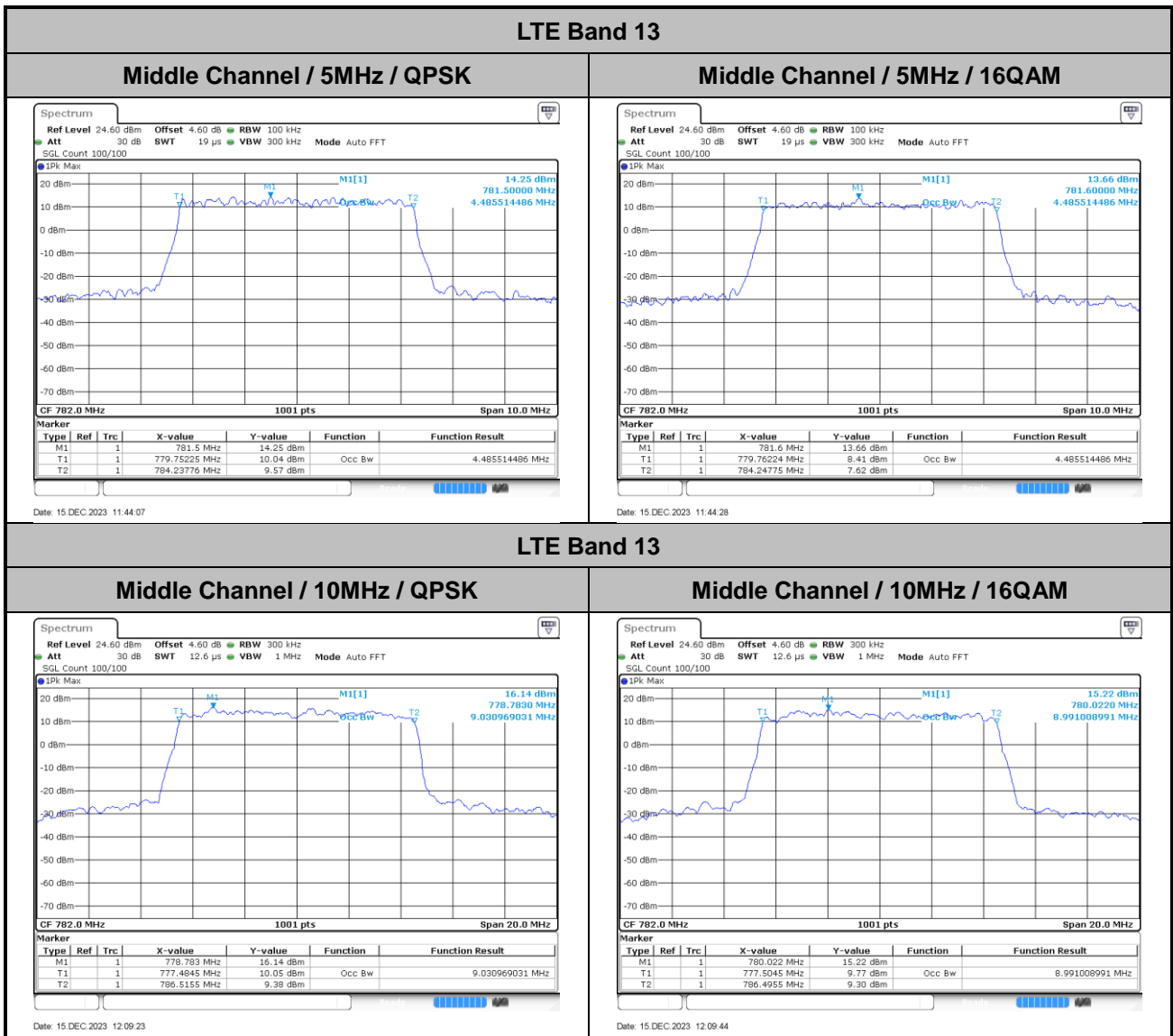
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.00	4.86
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.67	9.73





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.99

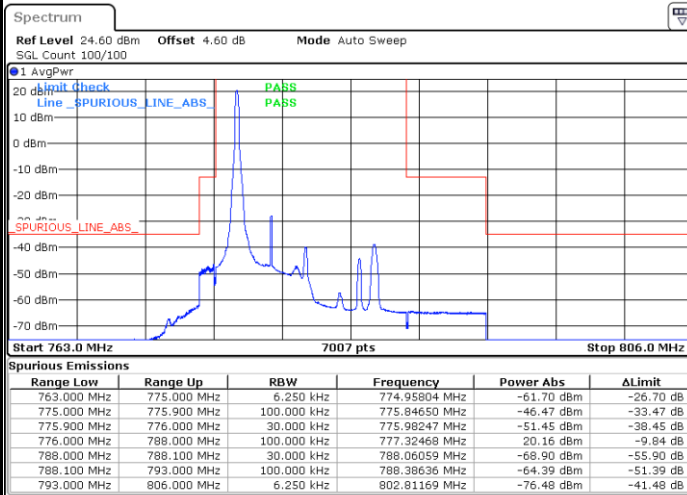




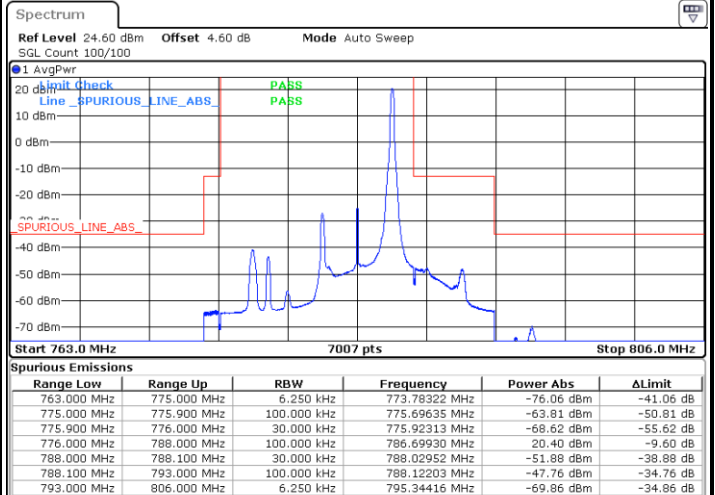
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

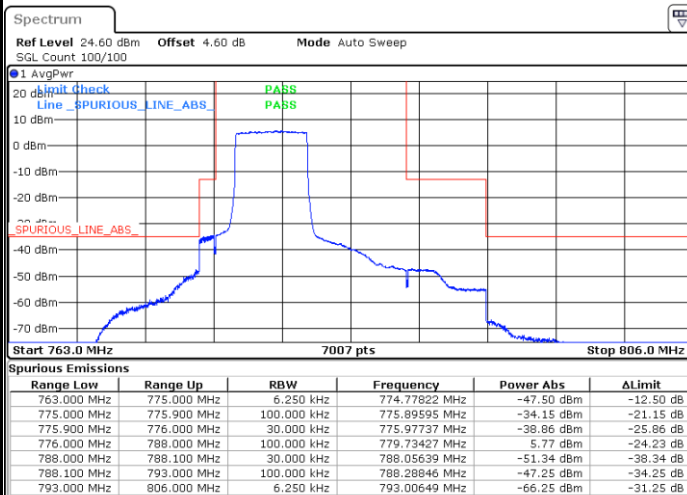
Lowest Band Edge / 1 RB



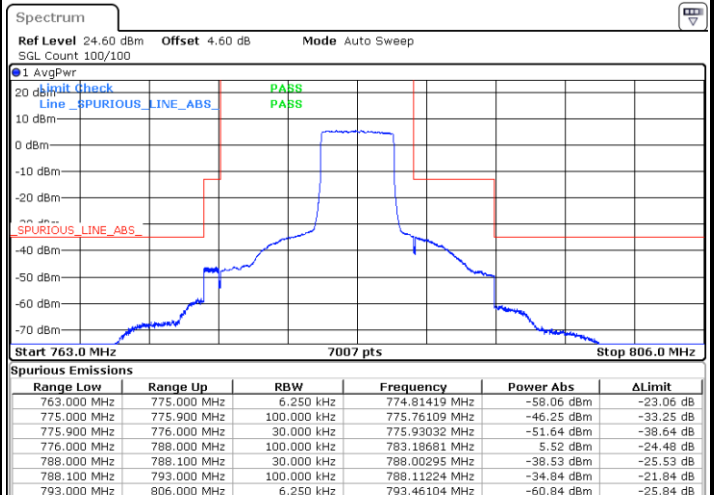
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

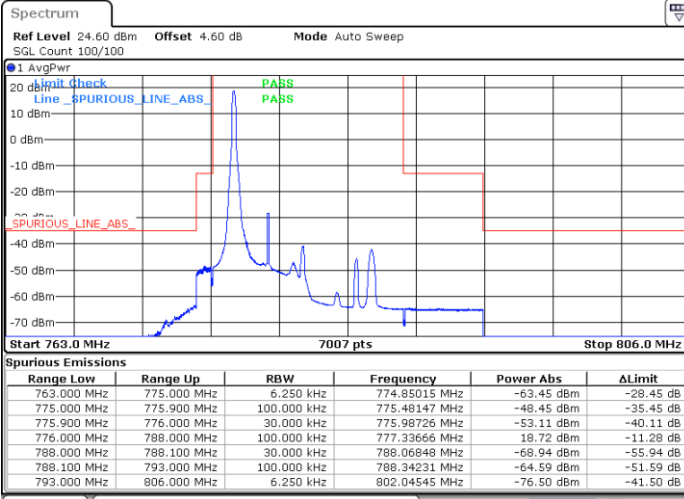




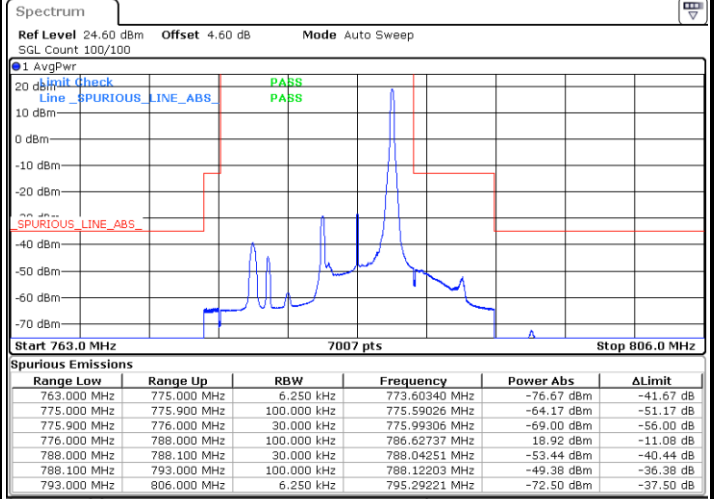
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



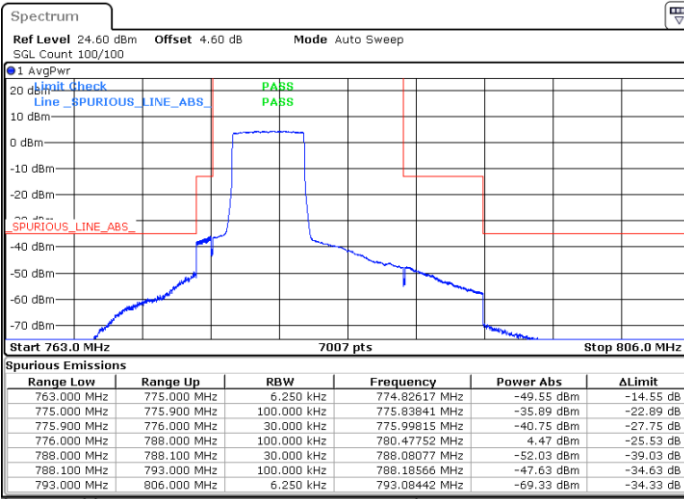
Date: 15. DEC 2023 11:39:46



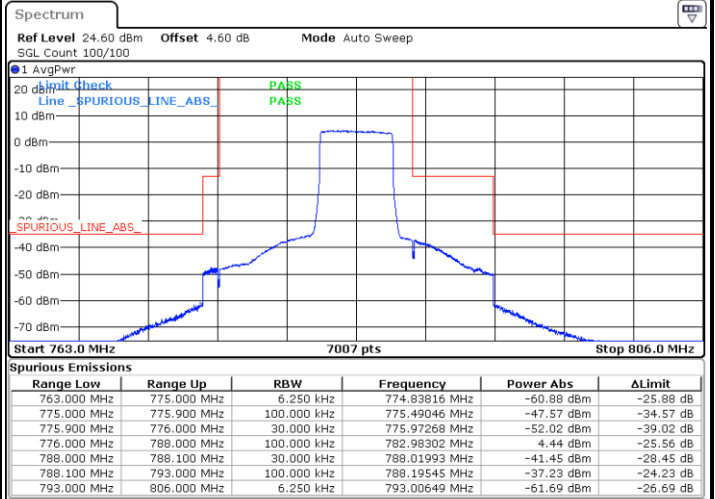
Date: 15. DEC 2023 11:52:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15. DEC 2023 11:41:36



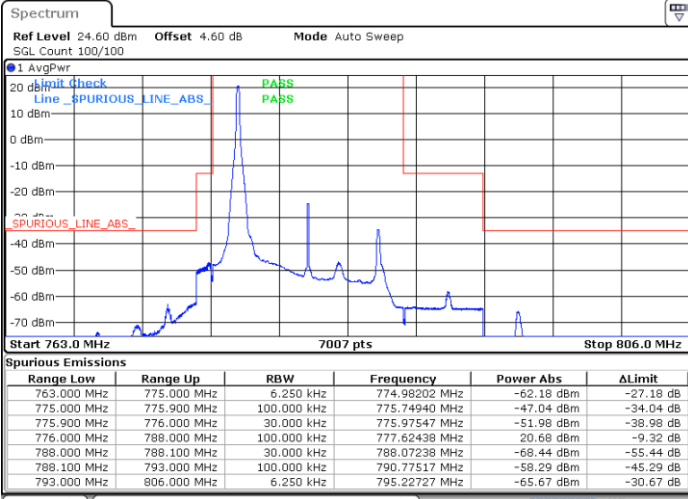
Date: 15. DEC 2023 11:54:17



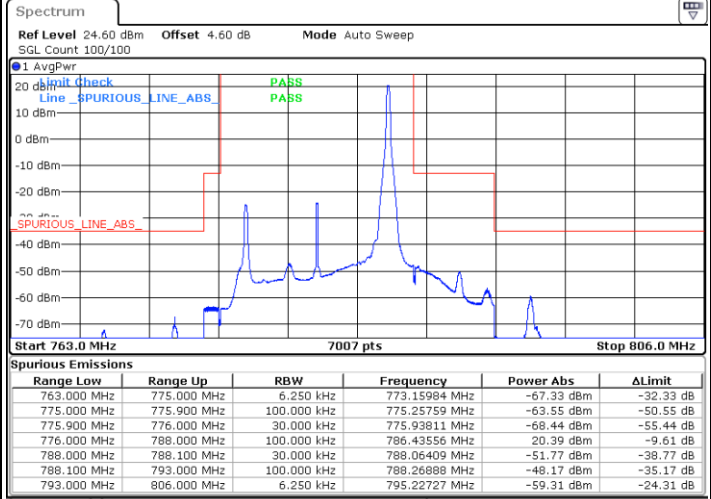
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

middle Band Edge / 1 RB

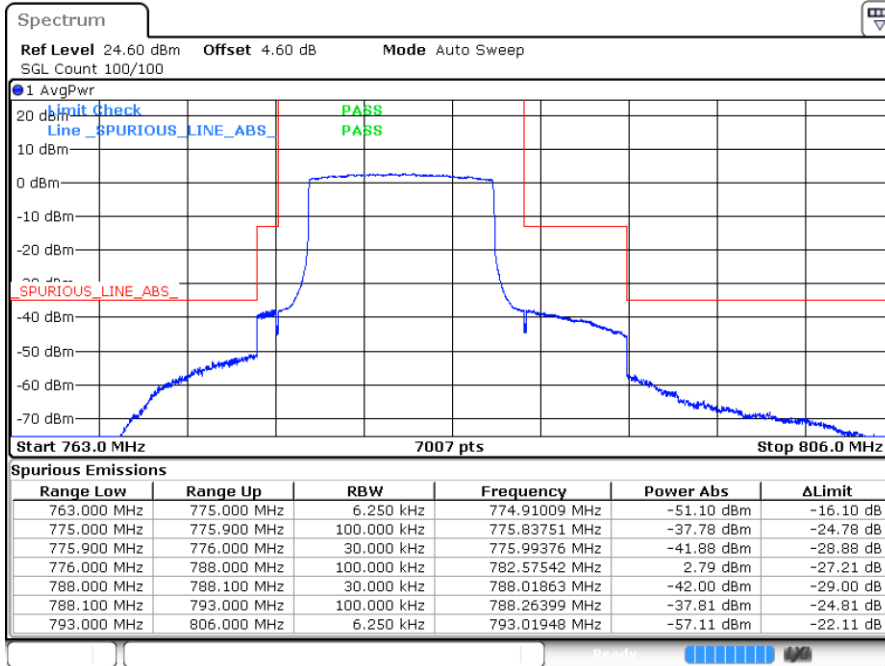


Date: 15.DEC.2023 11:59:56



Date: 15.DEC.2023 12:05:24

Middle Band Edge / Full RB

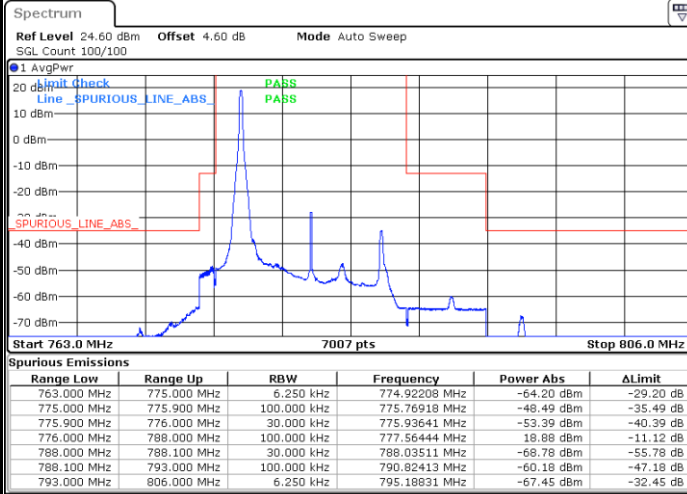


Date: 15.DEC.2023 12:07:13



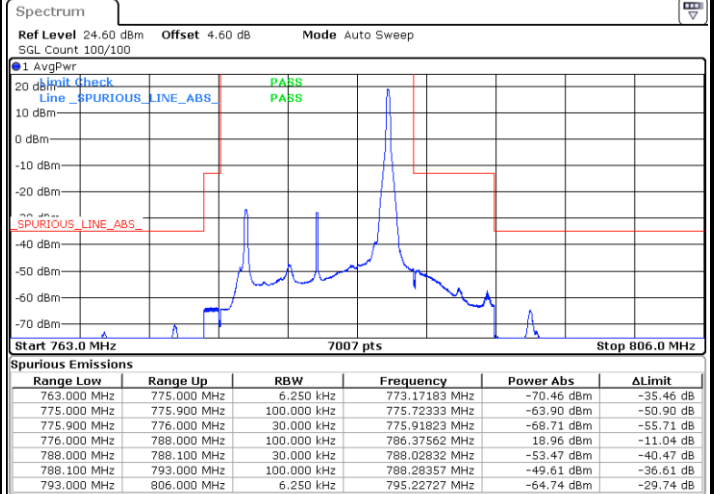
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



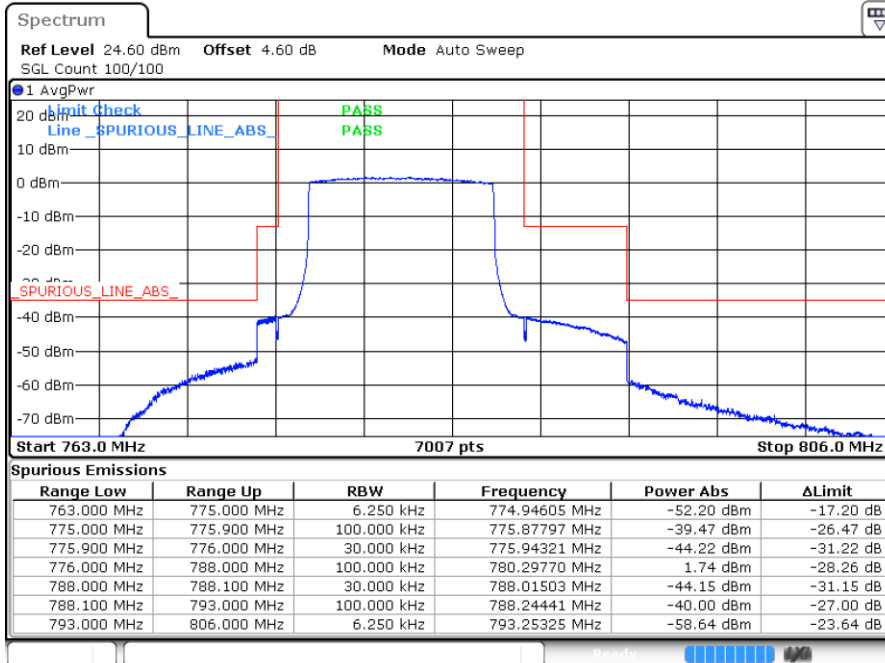
Date: 15.DEC.2023 12:01:45

middle Band Edge / 1 RB



Date: 15.DEC.2023 12:03:35

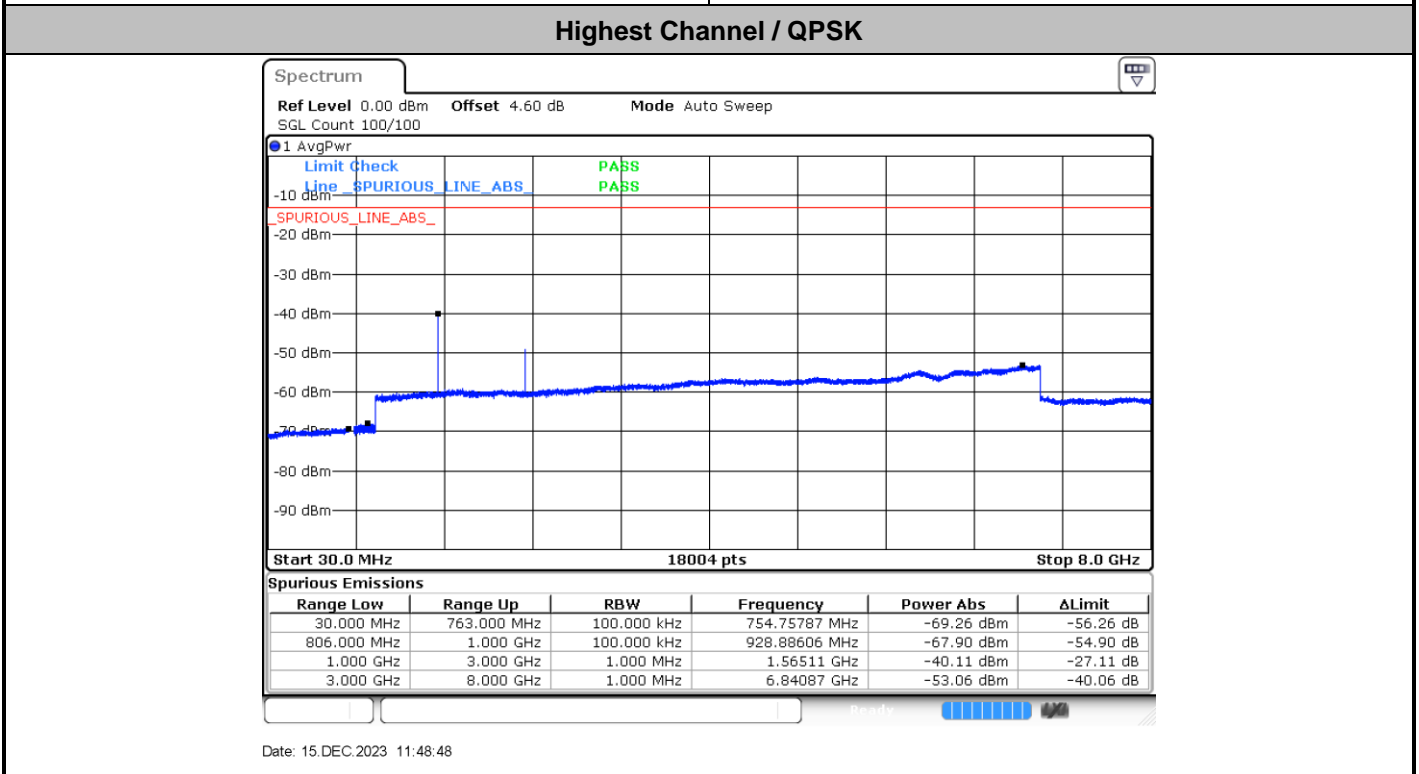
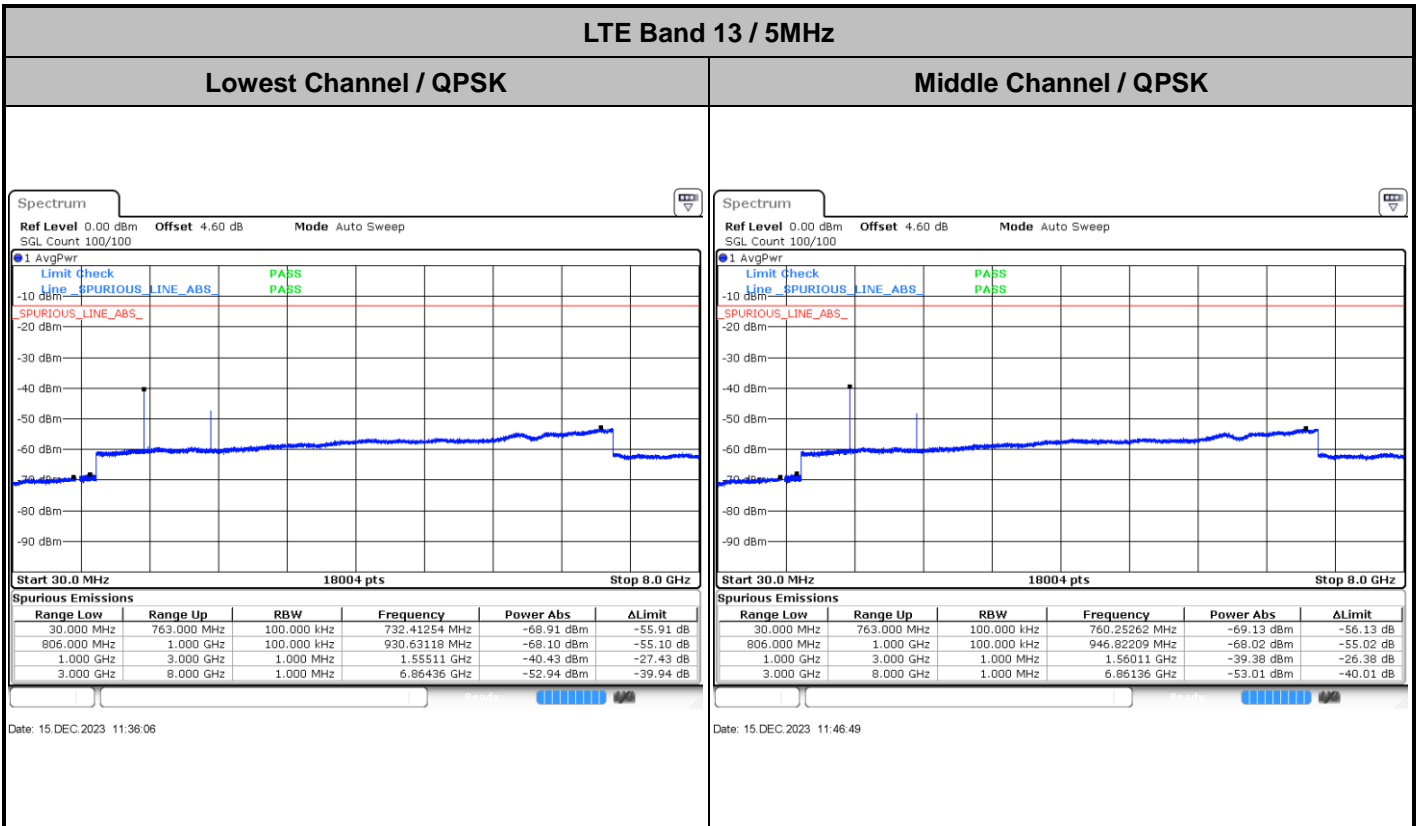
middle Band Edge / Full RB



Date: 15.DEC.2023 12:09:02



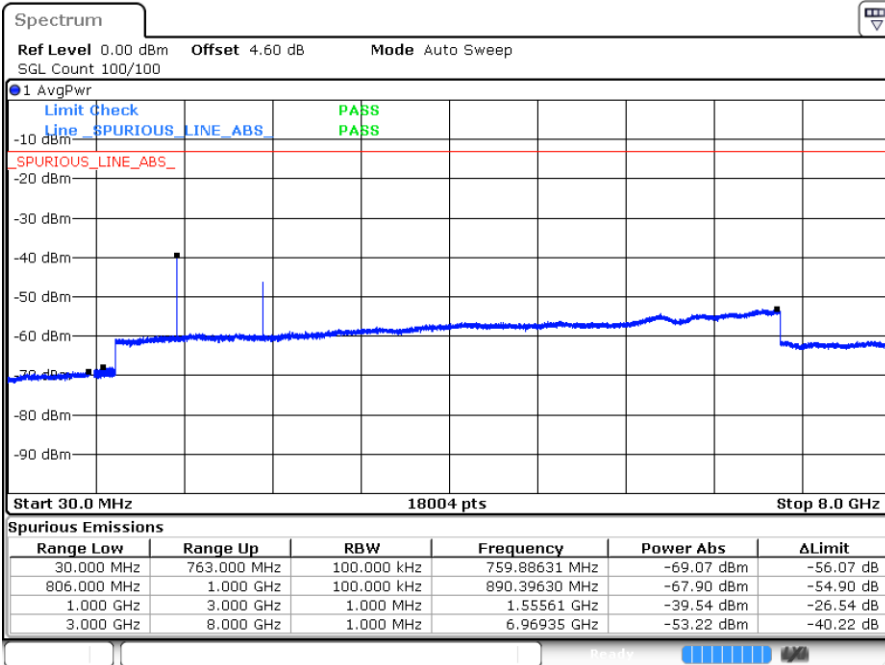
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 15.DEC.2023 11:58:07



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	0.0051	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0066	
20	Normal Voltage	0.0024	
20	Minimum Voltage	0.0005	

Note:

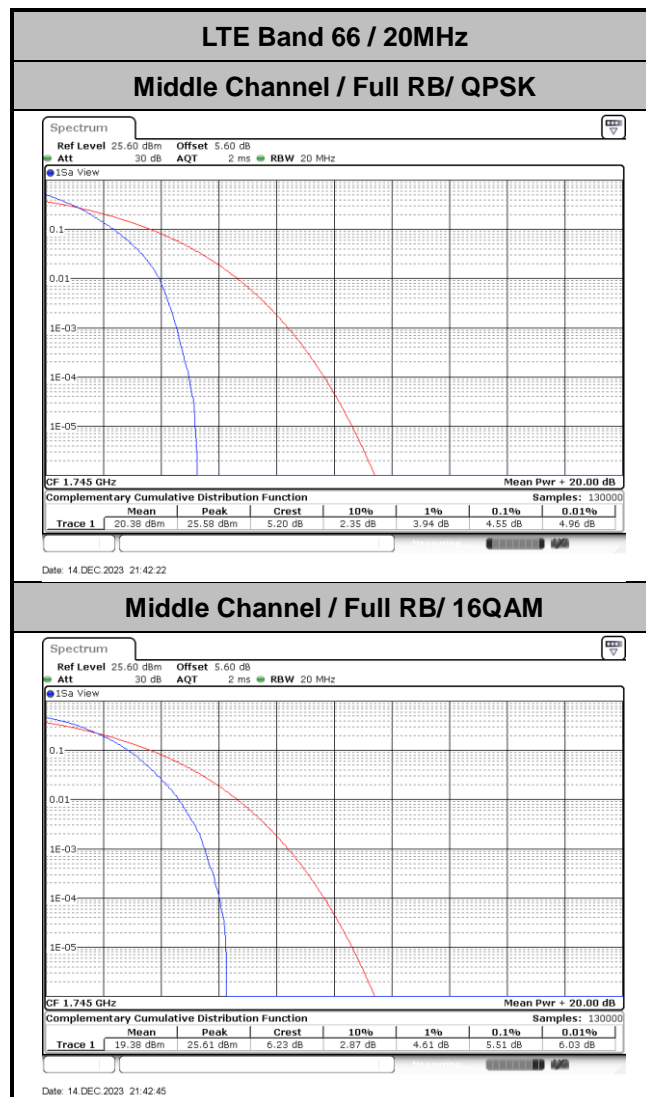
1. Normal Voltage =13 V. ; Minimum Voltage =12V. ; Maximum Voltage =30 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.55	5.51	PASS





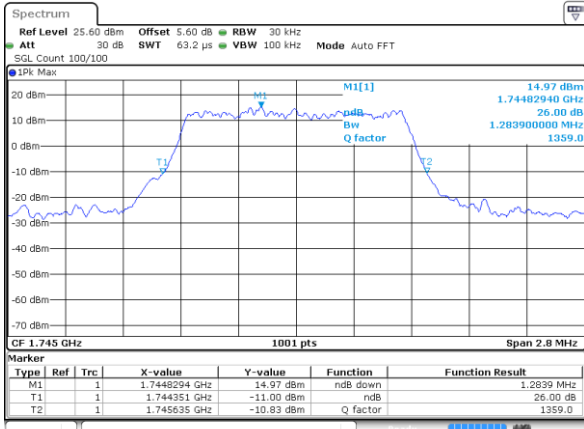
26dB Bandwidth

Mode	LTE Band 66 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.28	1.27
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.02	3.02
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.89	4.89
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.73	9.67
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.45	14.39
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.06	18.94



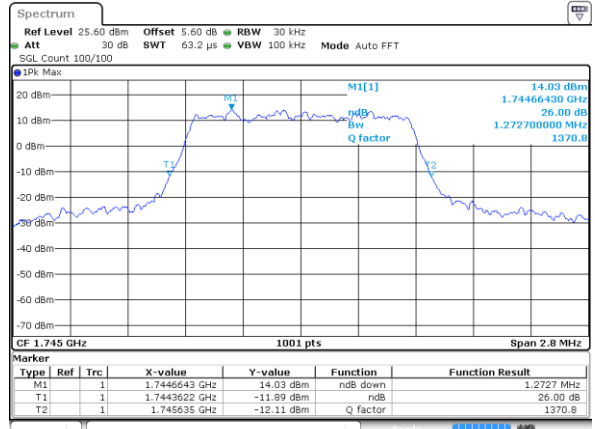
LTE Band 66

Middle Channel / 1.4MHz / QPSK



Date: 14 DEC 2023 20:14:28

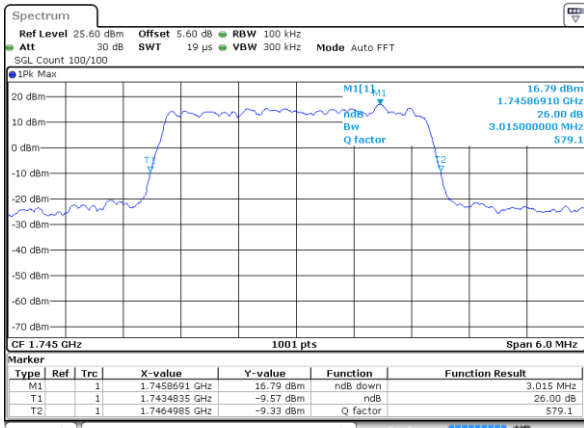
Middle Channel / 1.4MHz / 16QAM



Date: 14 DEC 2023 20:14:50

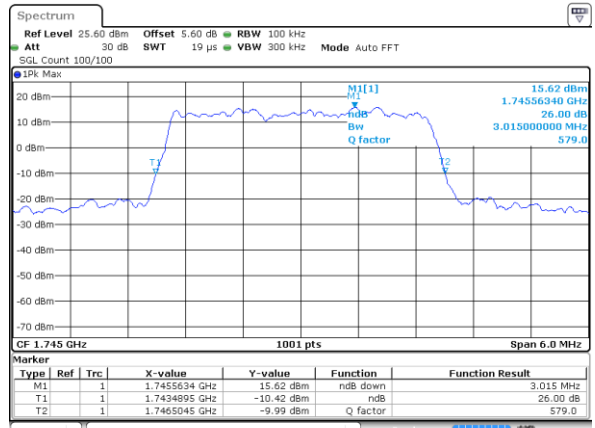
LTE Band 66

Middle Channel / 3MHz / QPSK



Date: 14 DEC 2023 20:33:12

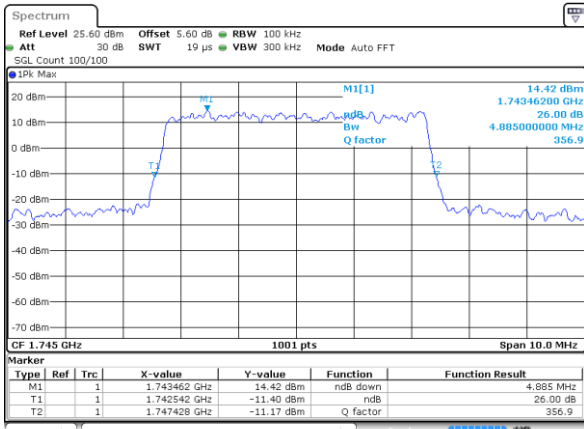
Middle Channel / 3MHz / 16QAM



Date: 14 DEC 2023 20:33:34

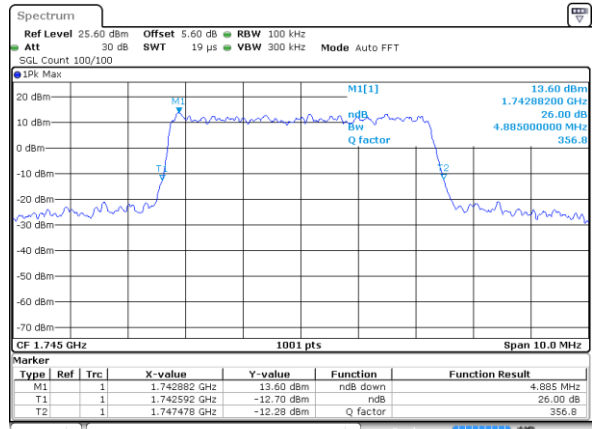
LTE Band 66

Middle Channel / 5MHz / QPSK



Date: 14 DEC 2023 20:54:21

Middle Channel / 5MHz / 16QAM

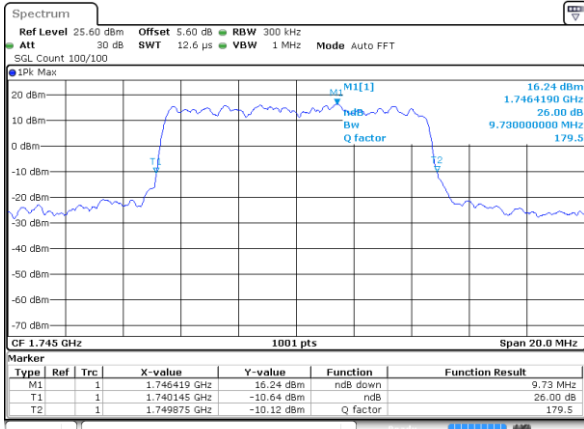


Date: 14 DEC 2023 20:54:42



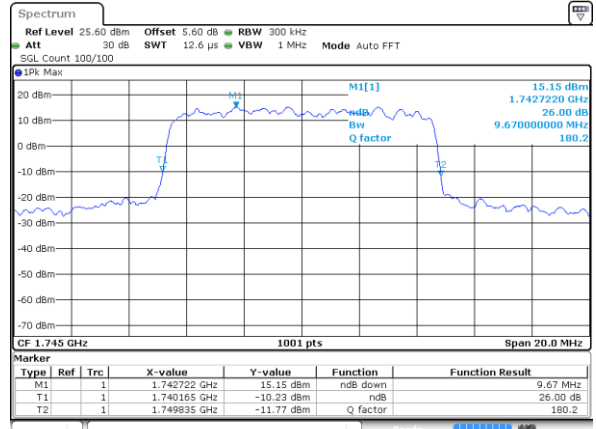
LTE Band 66

Middle Channel / 10MHz / QPSK



Date: 14 DEC 2023 21:07:45

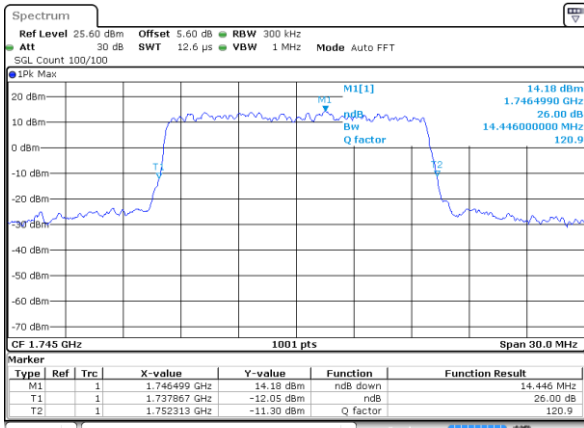
Middle Channel / 10MHz / 16QAM



Date: 14 DEC 2023 21:08:06

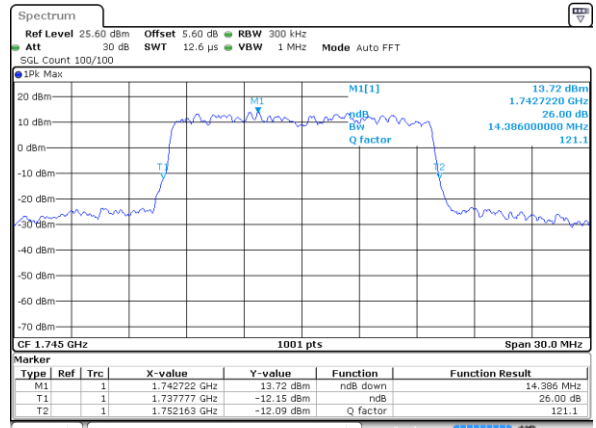
LTE Band 66

Middle Channel / 15MHz / QPSK



Date: 14 DEC 2023 21:21:10

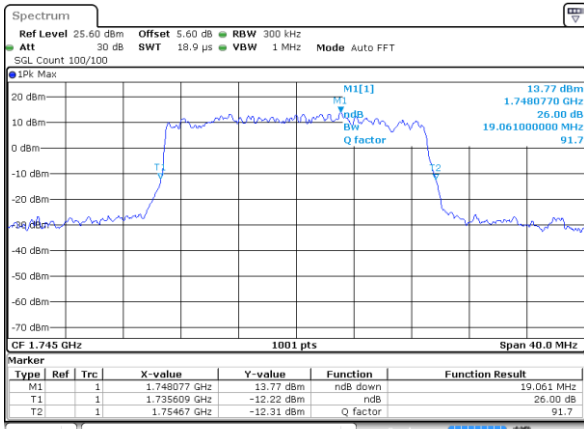
Middle Channel / 15MHz / 16QAM



Date: 14 DEC 2023 21:21:32

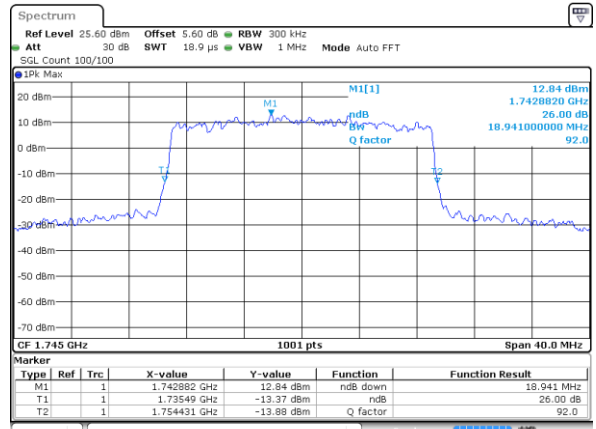
LTE Band 66

Middle Channel / 20MHz / QPSK



Date: 14 DEC 2023 21:41:38

Middle Channel / 20MHz / 16QAM



Date: 14 DEC 2023 21:41:59



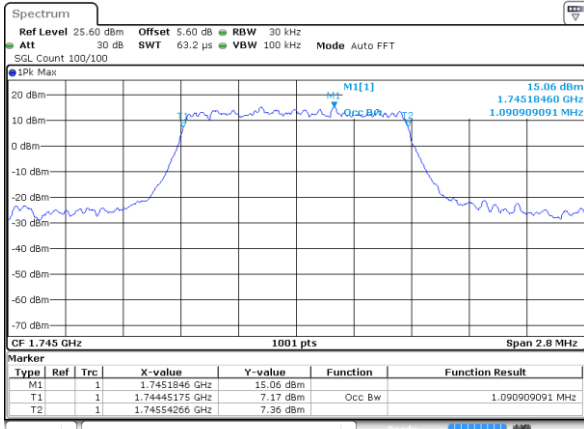
Occupied Bandwidth

Mode	LTE Band 66 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.09
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.73	2.71
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.51
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.97	8.95
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.43	13.43
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.82	17.78



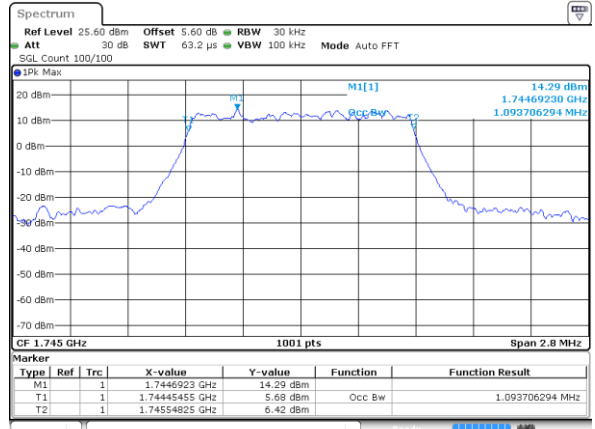
LTE Band 66

Middle Channel / 1.4MHz / QPSK



Date: 14 DEC 2023 20:14:07

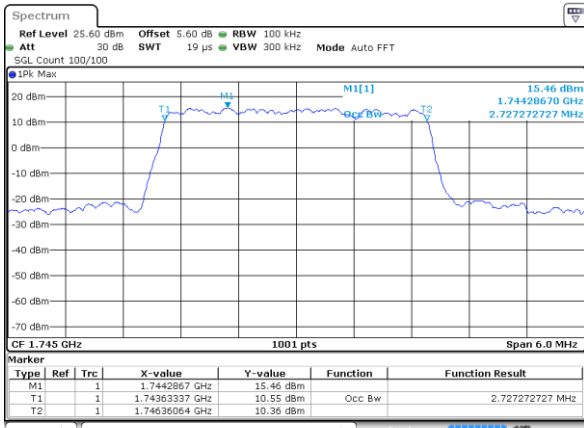
Middle Channel / 1.4MHz / 16QAM



Date: 14 DEC 2023 20:15:11

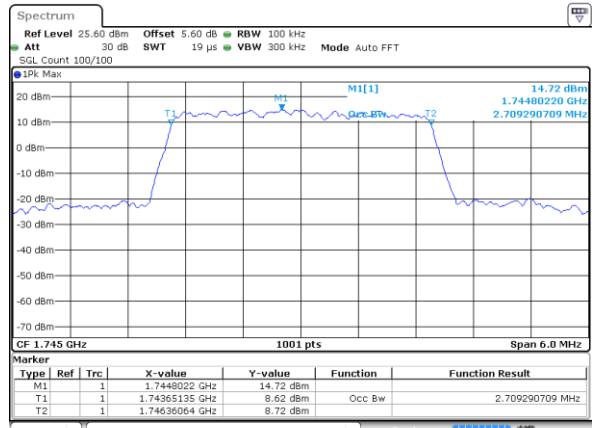
LTE Band 66

Middle Channel / 3MHz / QPSK



Date: 14 DEC 2023 20:32:51

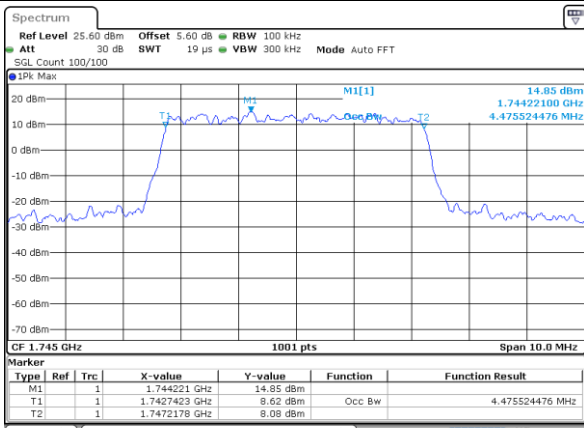
Middle Channel / 3MHz / 16QAM



Date: 14 DEC 2023 20:33:56

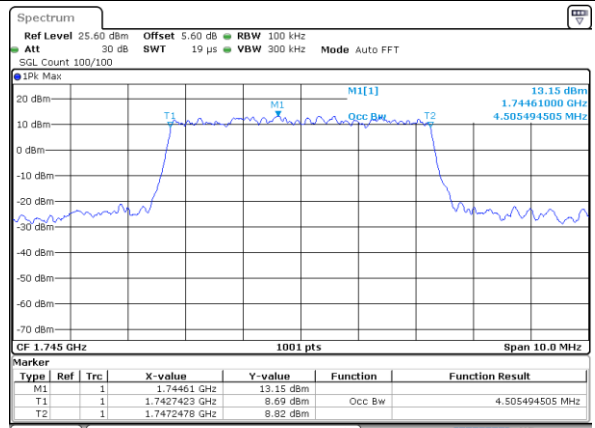
LTE Band 66

Middle Channel / 5MHz / QPSK



Date: 14 DEC 2023 20:53:59

Middle Channel / 5MHz / 16QAM

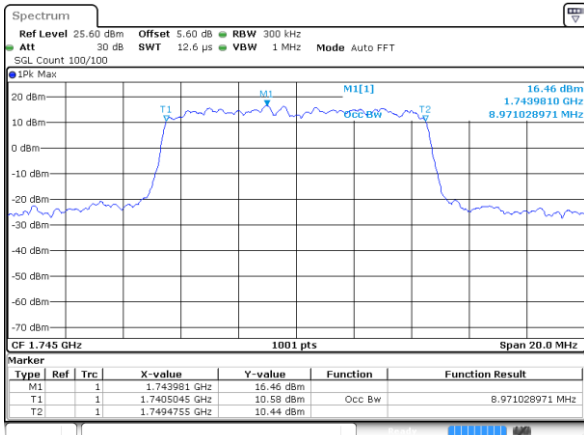


Date: 14 DEC 2023 20:55:04



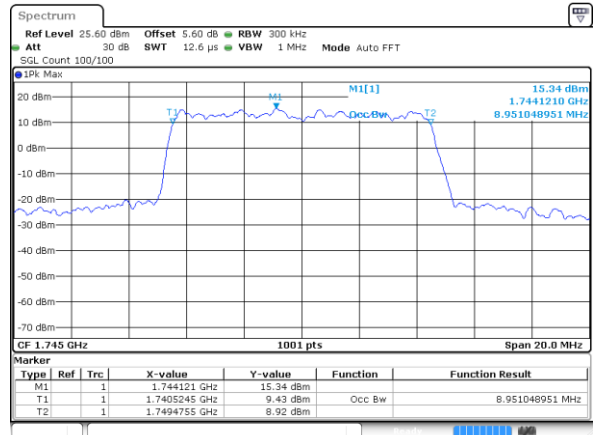
LTE Band 66

Middle Channel / 10MHz / QPSK



Date: 14 DEC 2023 21:07:23

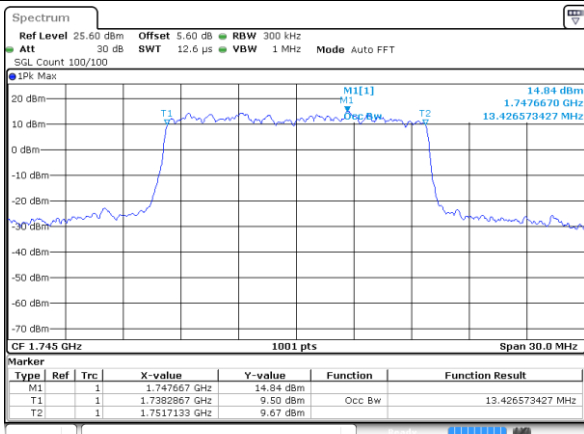
Middle Channel / 10MHz / 16QAM



Date: 14 DEC 2023 21:08:28

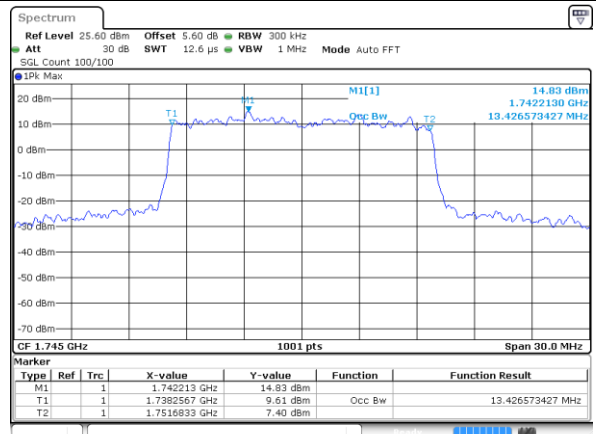
LTE Band 66

Middle Channel / 15MHz / QPSK



Date: 14 DEC 2023 21:20:49

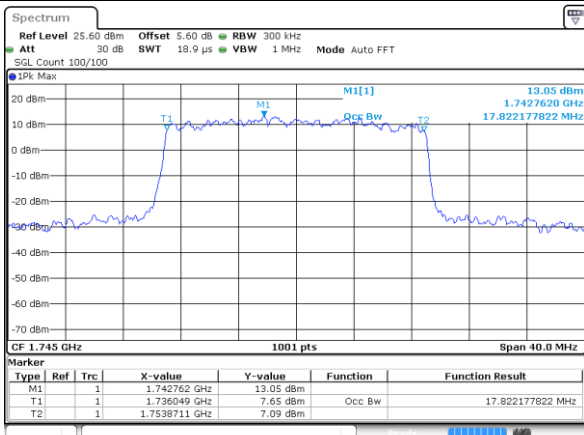
Middle Channel / 15MHz / 16QAM



Date: 14 DEC 2023 21:21:53

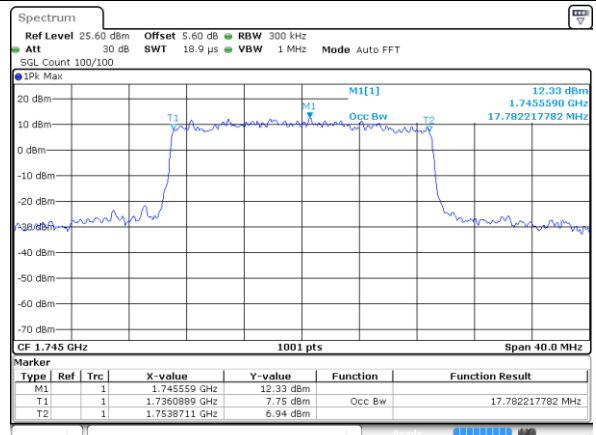
LTE Band 66

Middle Channel / 20MHz / QPSK



Date: 14 DEC 2023 21:40:54

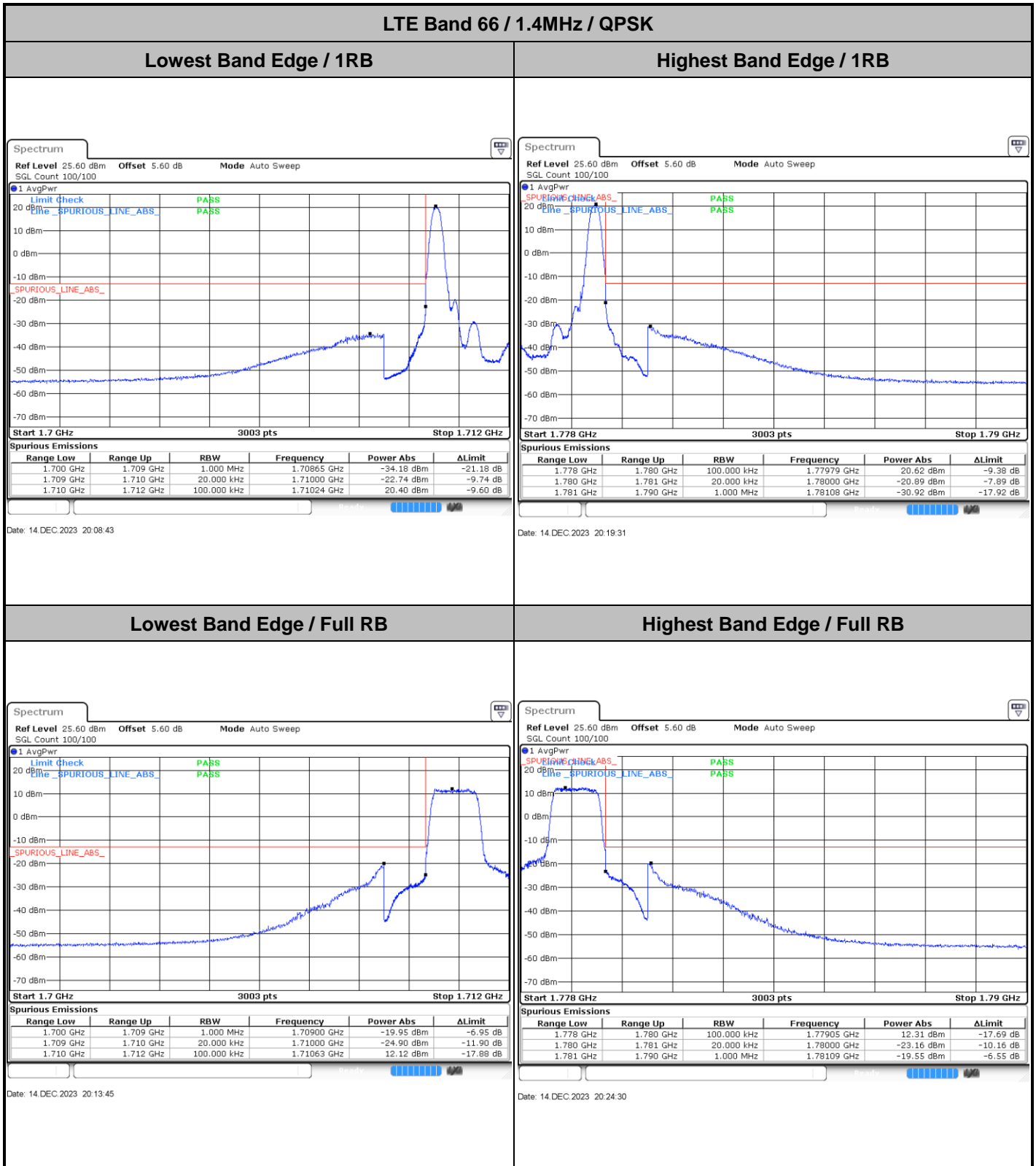
Middle Channel / 20MHz / 16QAM



Date: 14 DEC 2023 21:41:16



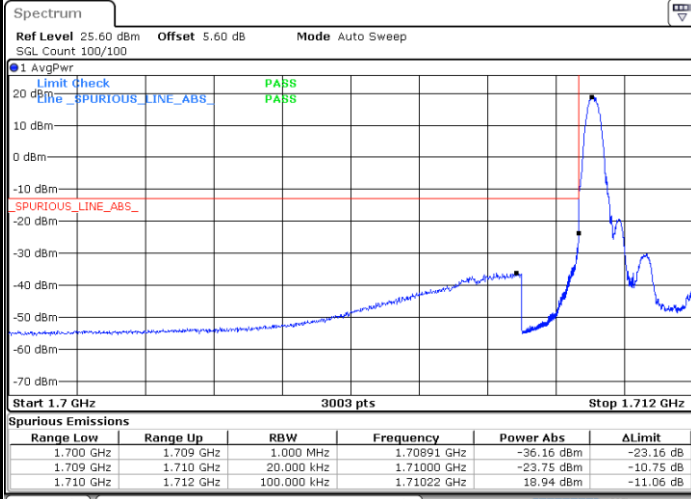
Conducted Band Edge





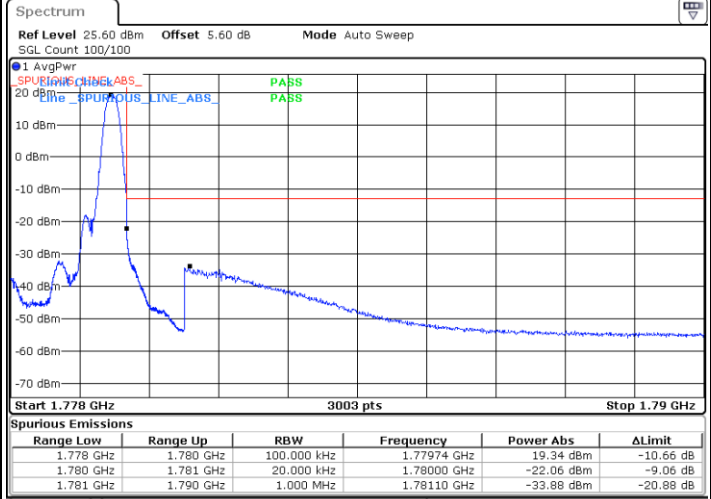
LTE Band 66 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



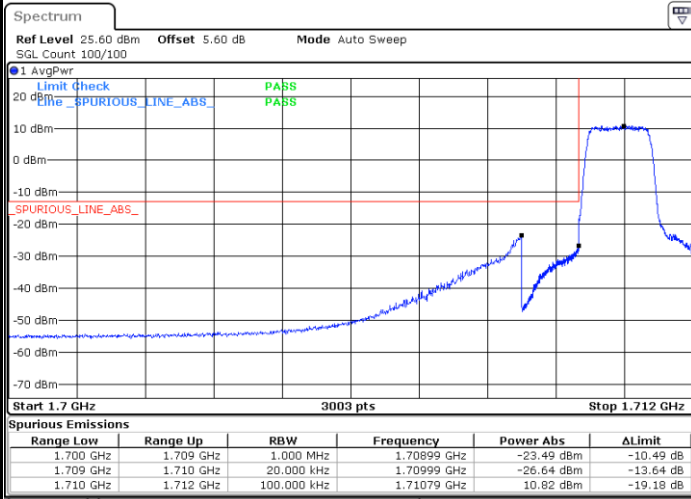
Date: 14 DEC 2023 20:10:25

Highest Band Edge / 1 RB



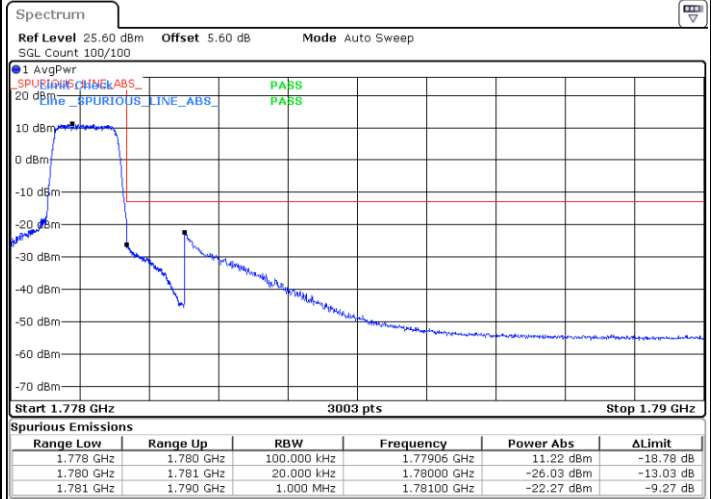
Date: 14 DEC 2023 20:21:11

Lowest Band Edge / Full RB



Date: 14 DEC 2023 20:12:06

Highest Band Edge / Full RB

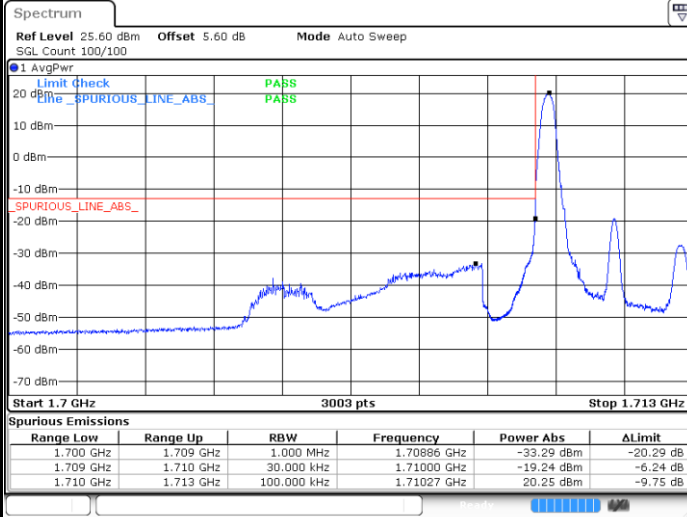


Date: 14 DEC 2023 20:22:50



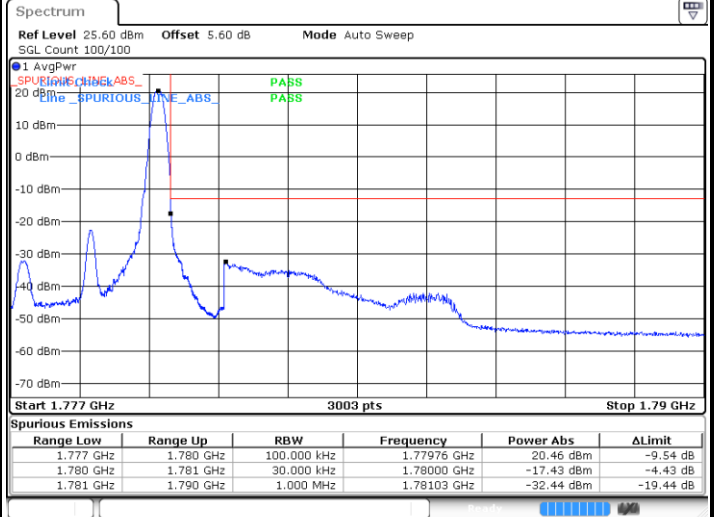
LTE Band 66 / 3MHz / QPSK

Lowest Band Edge / 1RB



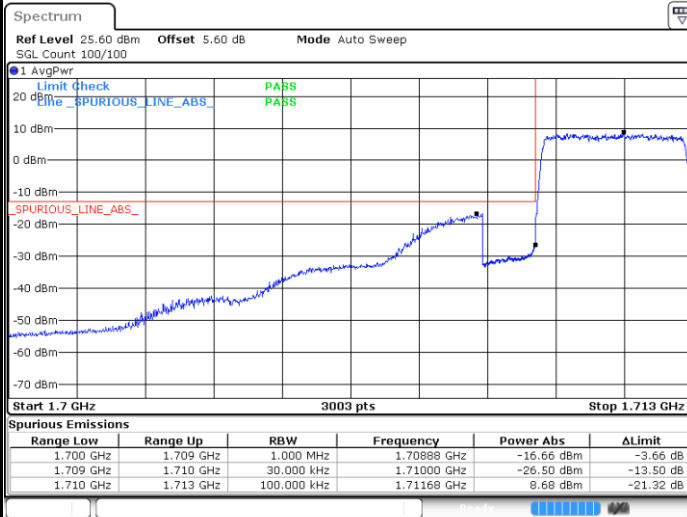
Date: 14.DEC.2023 20:27:30

Highest Band Edge / 1 RB



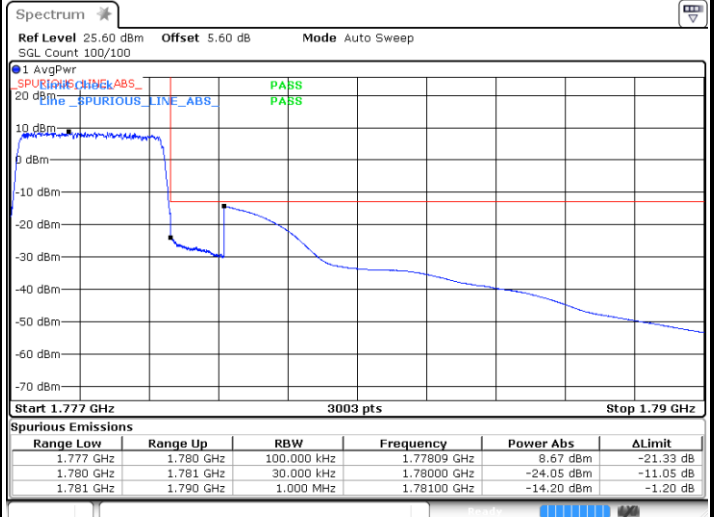
Date: 14.DEC.2023 20:38:15

Lowest Band Edge / Full RB



Date: 14.DEC.2023 20:32:30

Highest Band Edge / Full RB

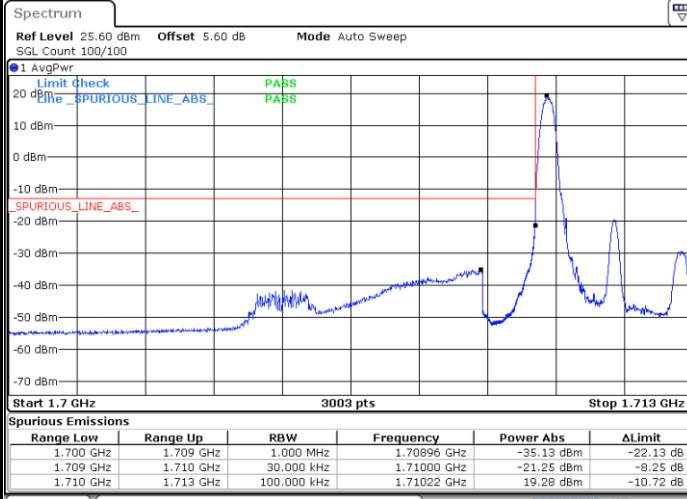


Date: 15.DEC.2023 15:58:16



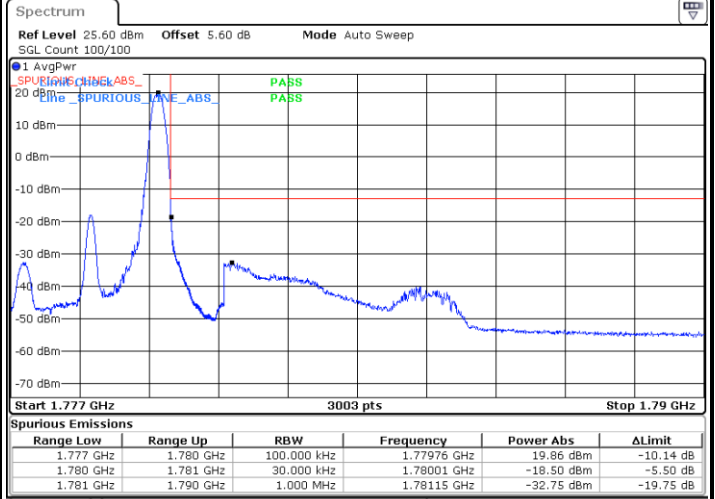
LTE Band 66 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



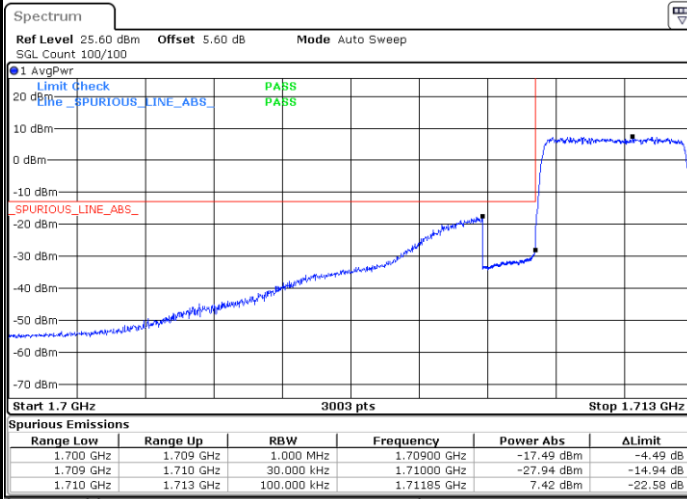
Date: 14.DEC.2023 20:29:10

Highest Band Edge / 1 RB



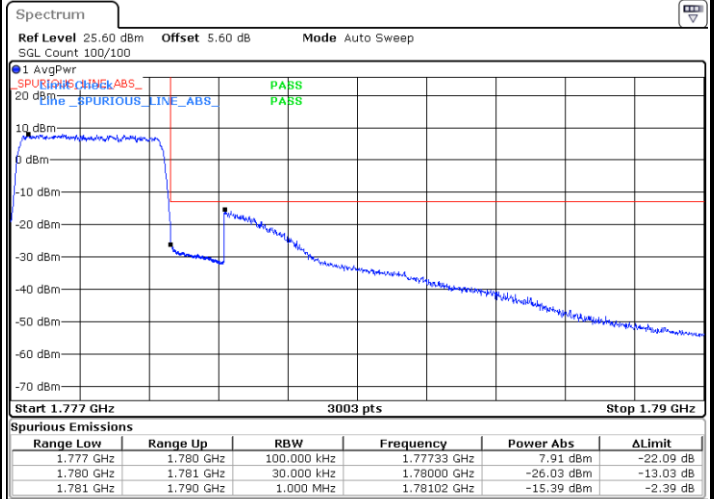
Date: 14.DEC.2023 20:39:55

Lowest Band Edge / Full RB



Date: 14.DEC.2023 20:30:50

Highest Band Edge / Full RB

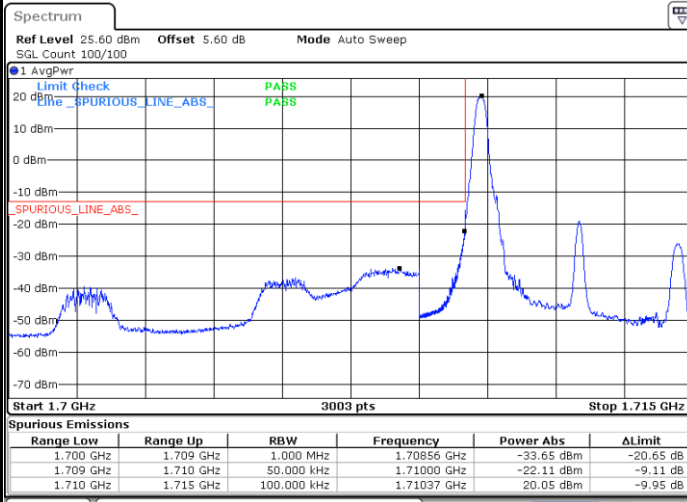


Date: 14.DEC.2023 20:41:35



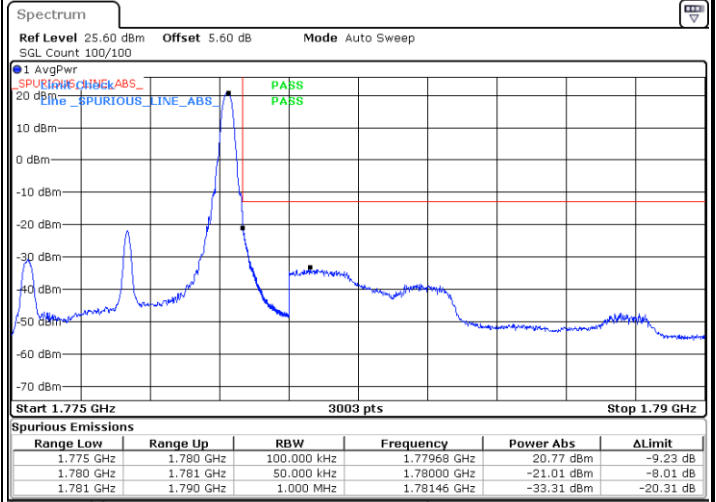
LTE Band 66 / 5MHz / QPSK

Lowest Band Edge / 1 RB



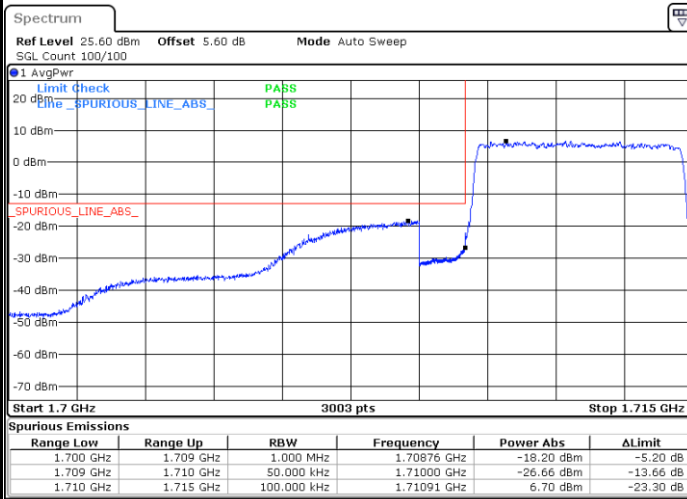
Date: 14.DEC.2023 20:46:15

Highest Band Edge / 1 RB



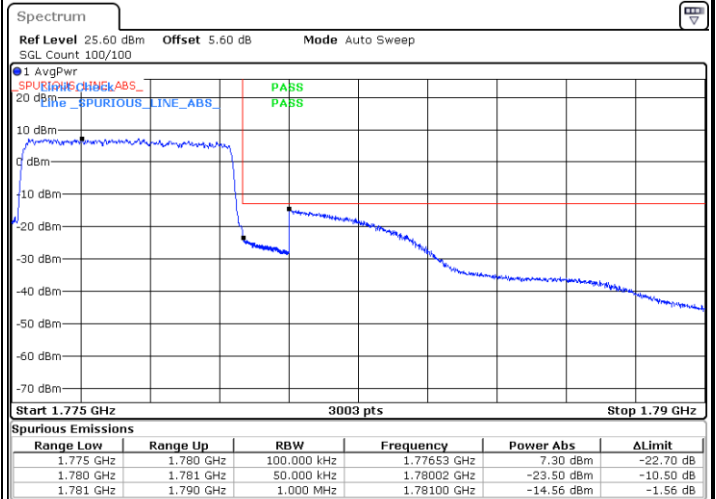
Date: 14.DEC.2023 20:58:44

Lowest Band Edge / Full RB



Date: 14.DEC.2023 20:53:37

Highest Band Edge / Full RB

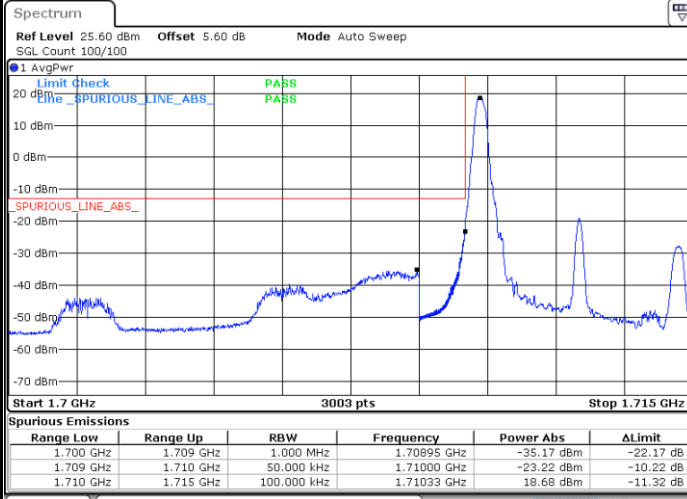


Date: 14.DEC.2023 21:01:43



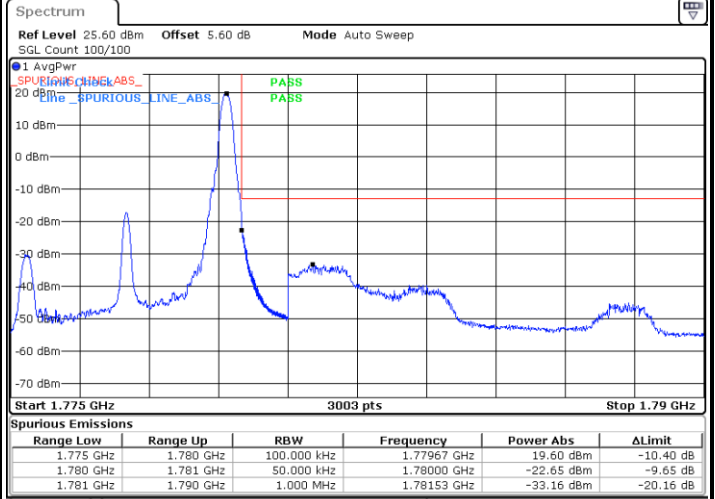
LTE Band 66 / 5MHz / 16QAM

Lowest Band Edge / 1RB



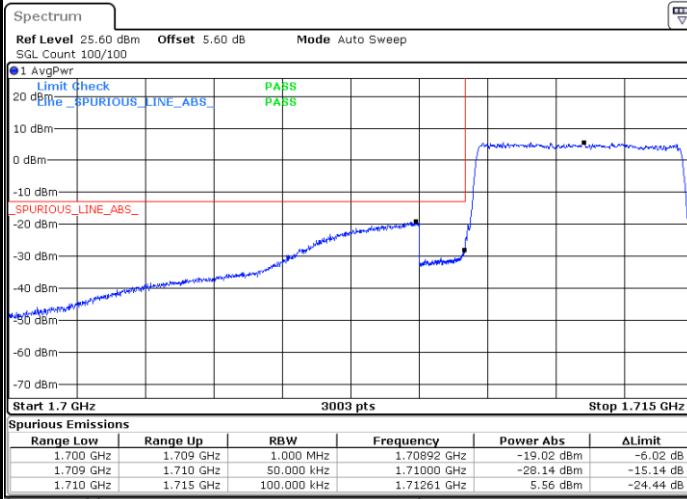
Date: 14 DEC 2023 20:47:54

Highest Band Edge / 1 RB



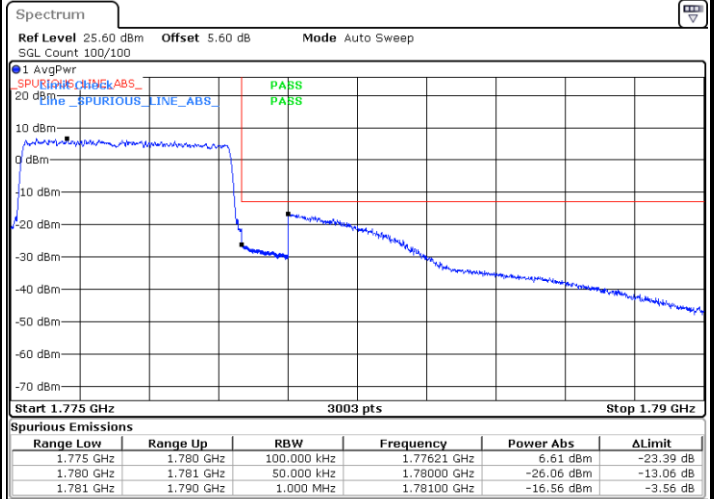
Date: 14 DEC 2023 20:59:43

Lowest Band Edge / Full RB



Date: 14 DEC 2023 20:49:34

Highest Band Edge / Full RB

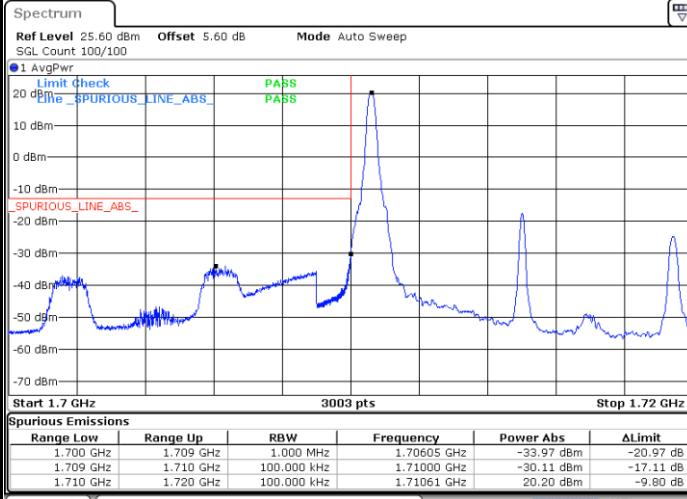


Date: 14 DEC 2023 21:00:43



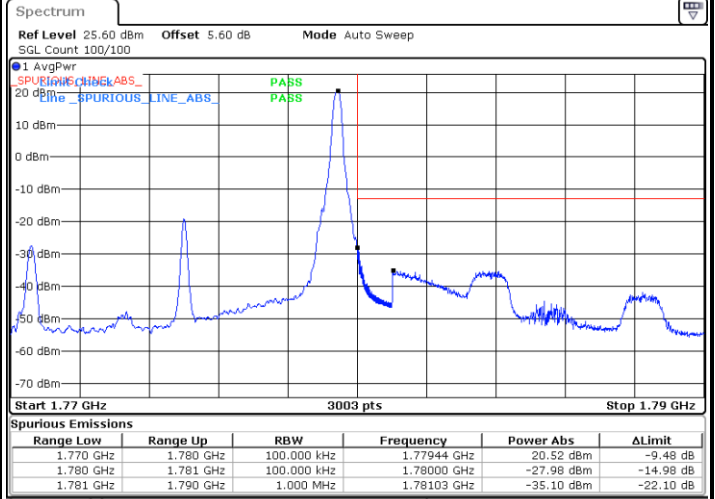
LTE Band 66 / 10MHz / QPSK

Lowest Band Edge / 1 RB



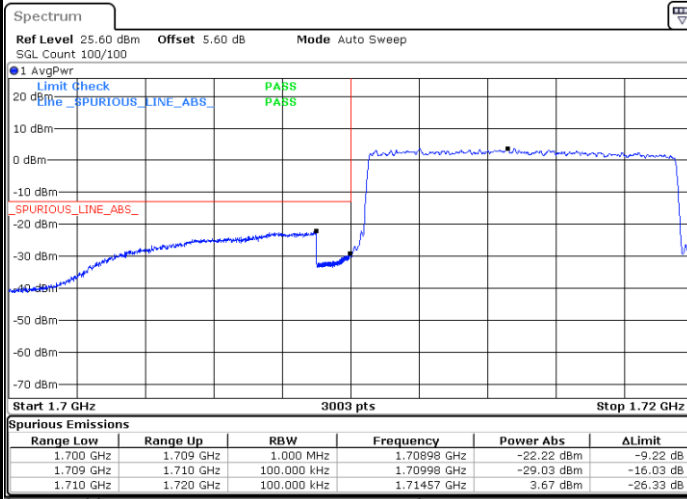
Date: 14.DEC.2023 21:04:03

Highest Band Edge / 1 RB



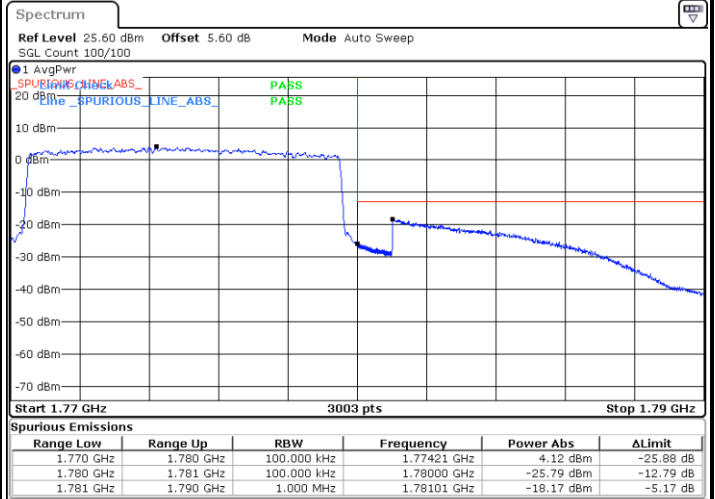
Date: 14.DEC.2023 21:12:08

Lowest Band Edge / Full RB



Date: 14.DEC.2023 21:07:02

Highest Band Edge / Full RB



Date: 14.DEC.2023 21:15:07