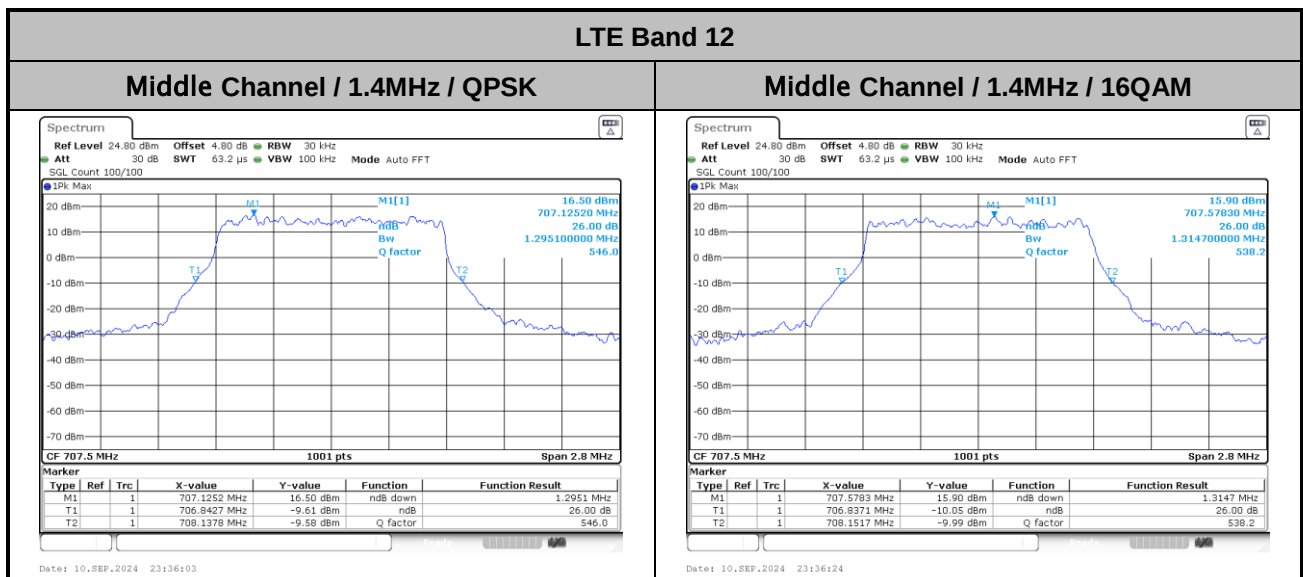


**26dB Bandwidth**

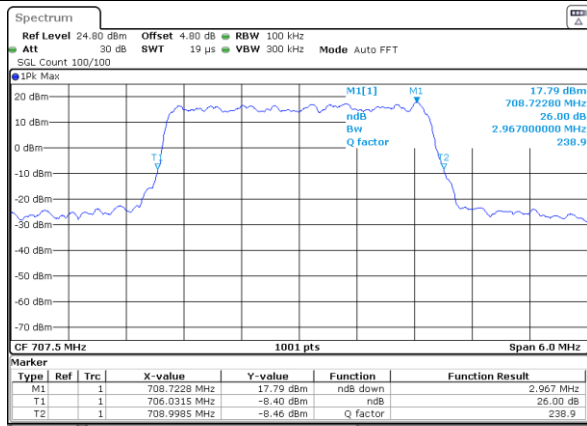
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.30	1.31
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.97	3.08
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.99	5.05
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.97	10.15





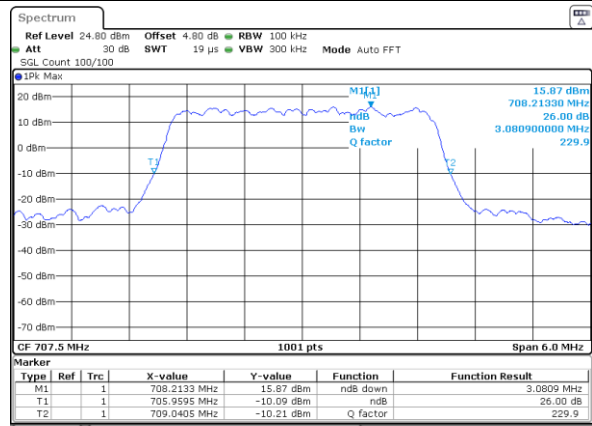
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 10,SEP,2024 23:34:37

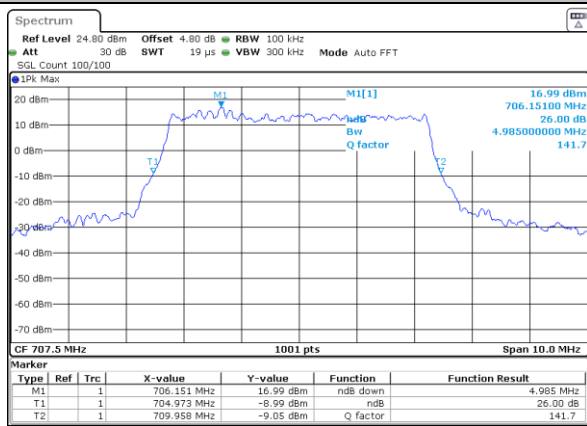
Middle Channel / 3MHz / 16QAM



Date: 10,SEP,2024 23:34:59

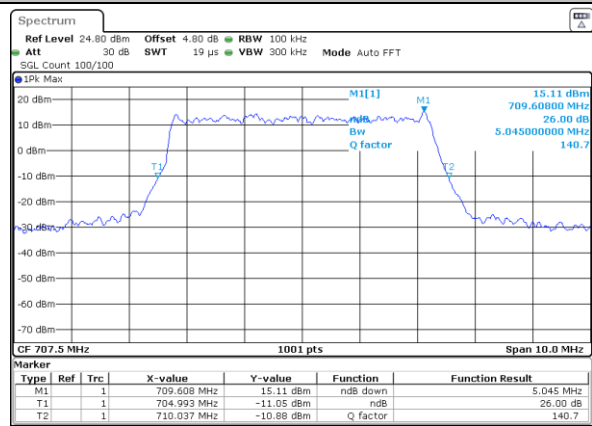
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 10,SEP,2024 23:33:12

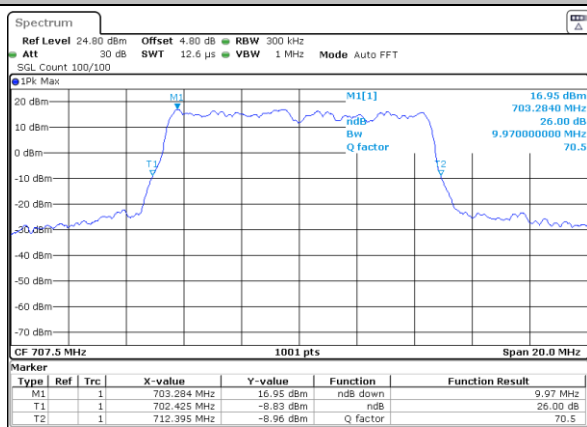
Middle Channel / 5MHz / 16QAM



Date: 10,SEP,2024 23:33:33

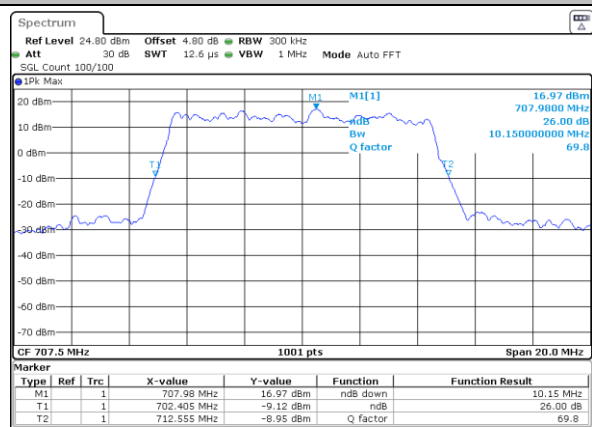
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 10,SEP,2024 23:32:08

Middle Channel / 10MHz / 16QAM

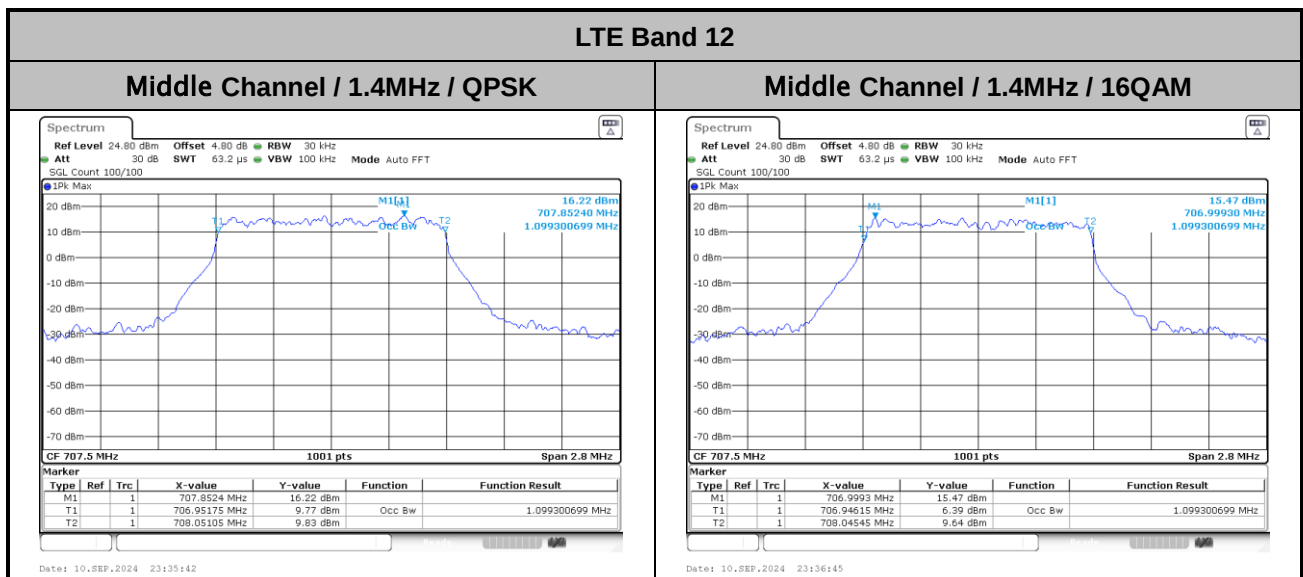


Date: 10,SEP,2024 23:32:29



Occupied Bandwidth

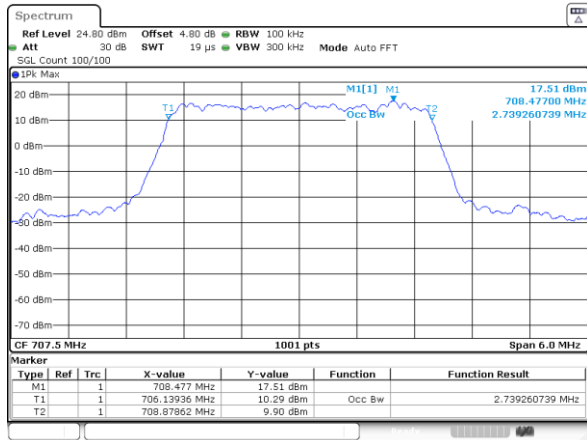
Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.74	2.73
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	9.05





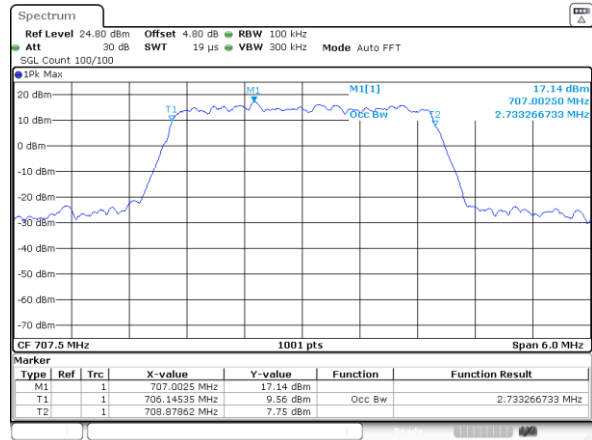
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 10,SEP,2024 23:34:16

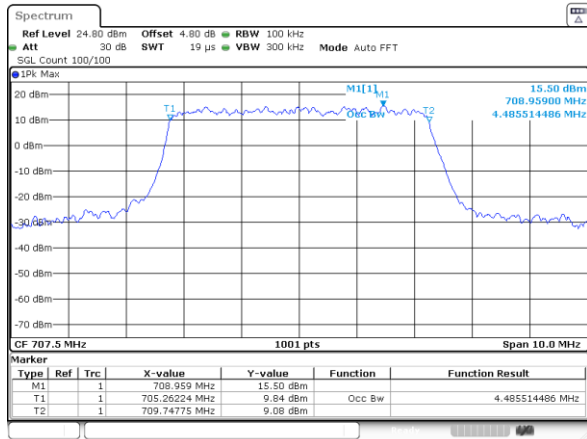
Middle Channel / 3MHz / 16QAM



Date: 10,SEP,2024 23:35:20

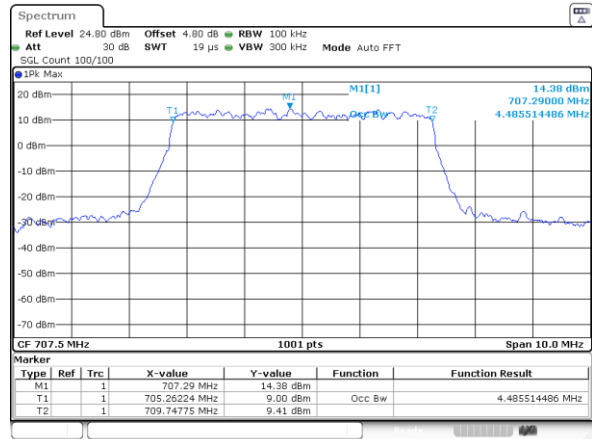
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 10,SEP,2024 23:32:51

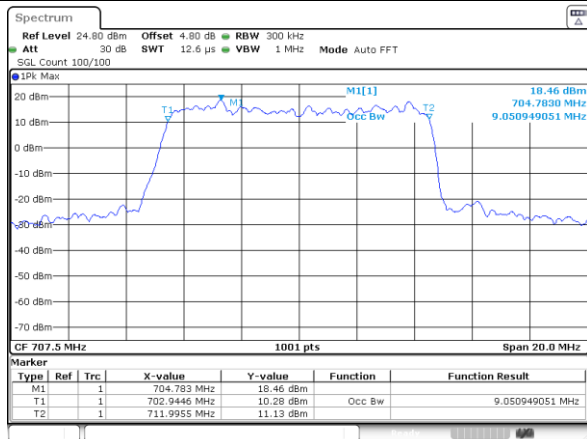
Middle Channel / 5MHz / 16QAM



Date: 10,SEP,2024 23:33:54

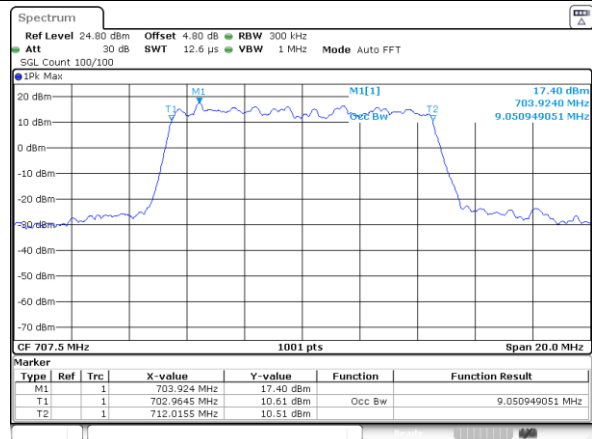
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 10,SEP,2024 23:31:25

Middle Channel / 10MHz / 16QAM



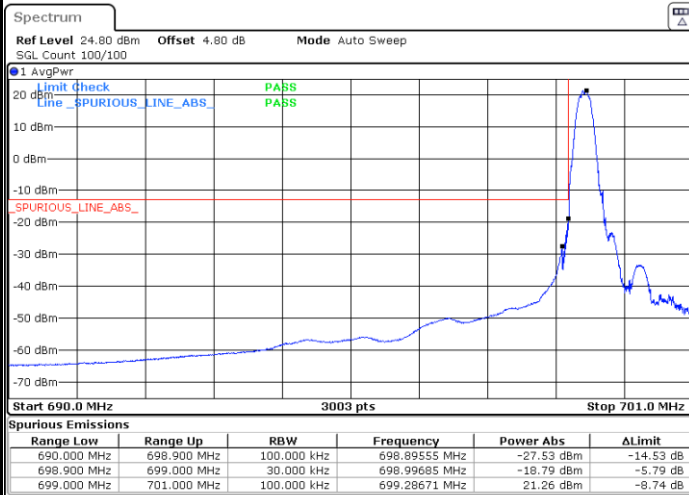
Date: 10,SEP,2024 23:31:47



Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

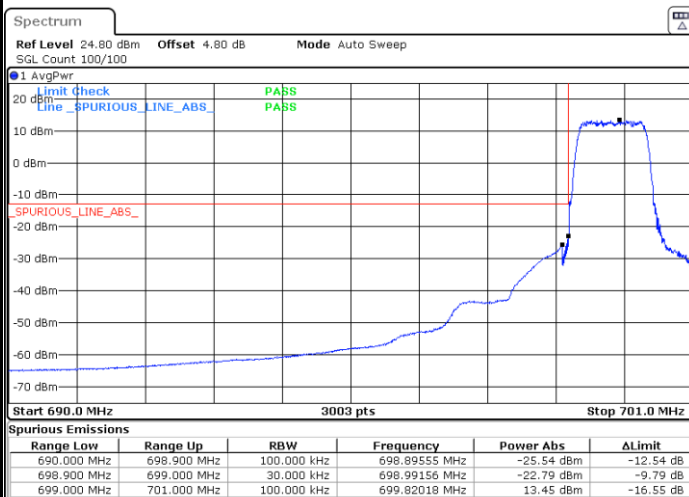
Lowest Band Edge / 1RB



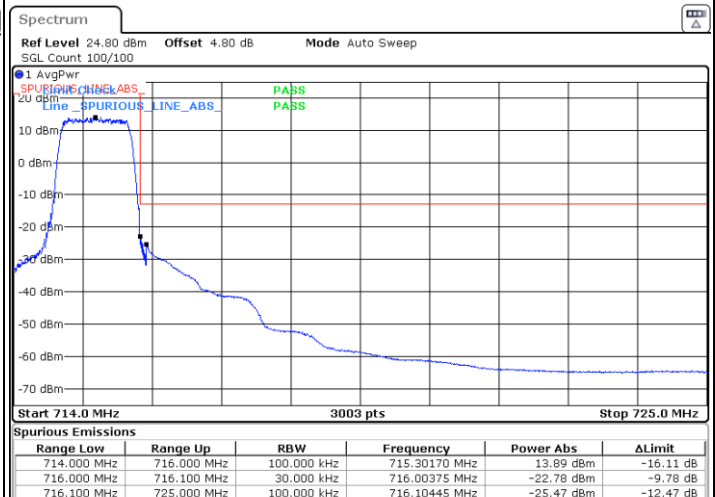
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



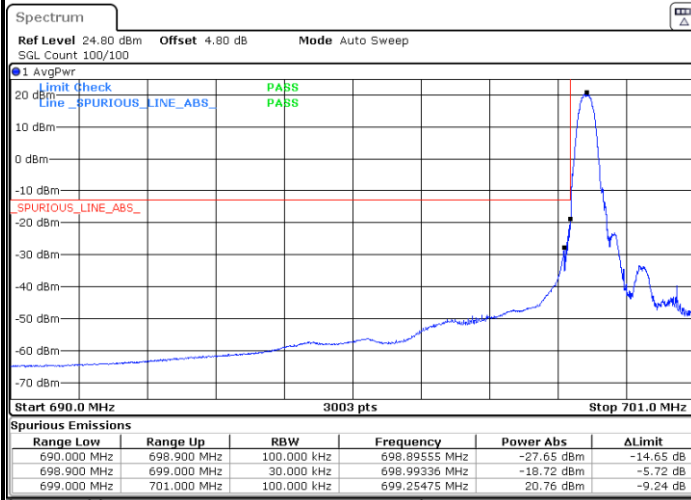
Highest Band Edge / Full RB



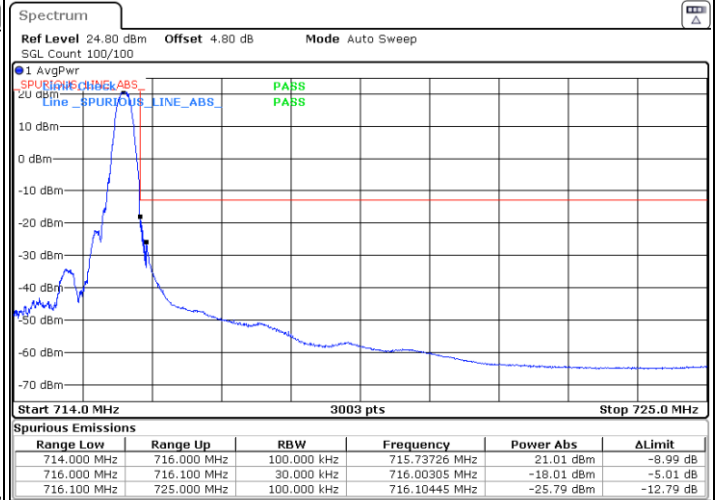


LTE Band 12 / 1.4MHz / 16QAM

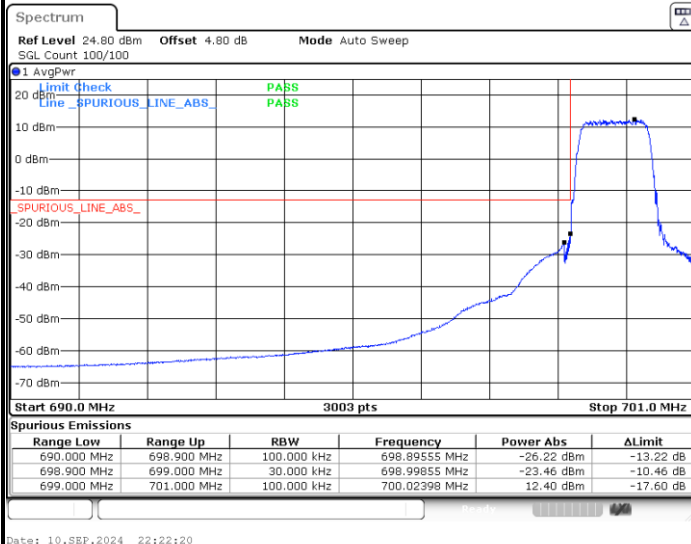
Lowest Band Edge / 1 RB



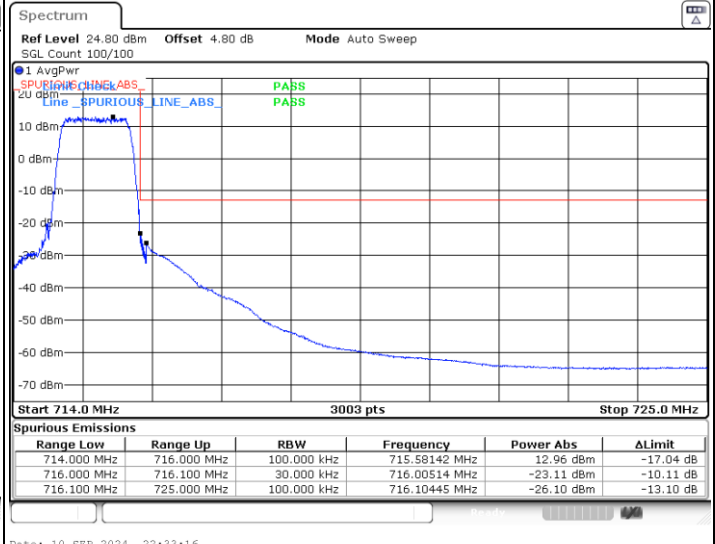
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



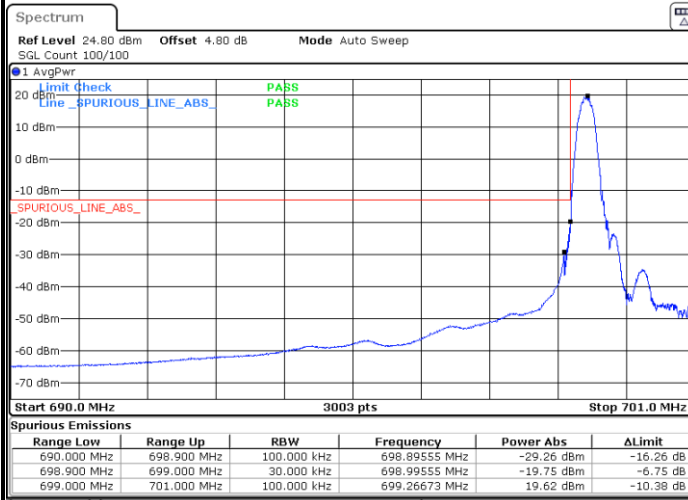
Highest Band Edge / Full RB



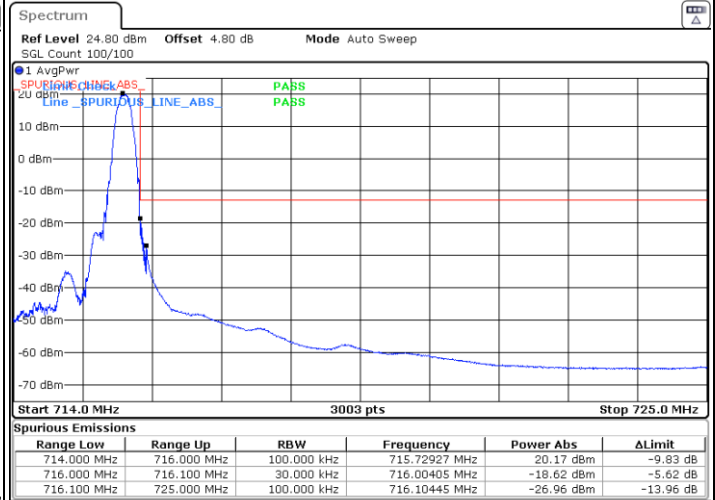


LTE Band 12 / 1.4MHz / 64QAM

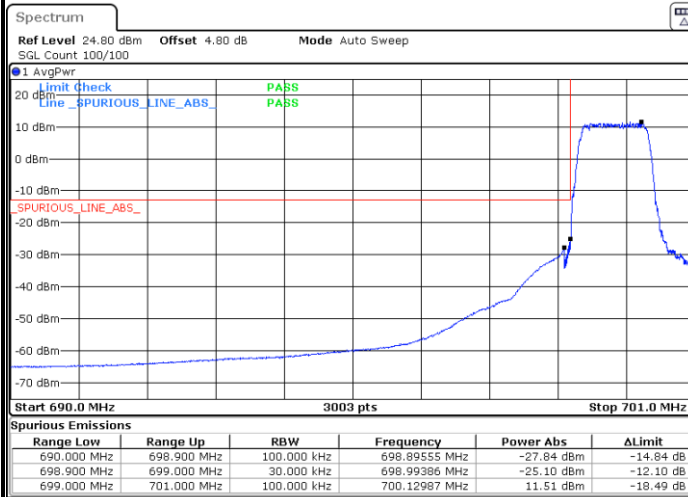
Lowest Band Edge / 1 RB



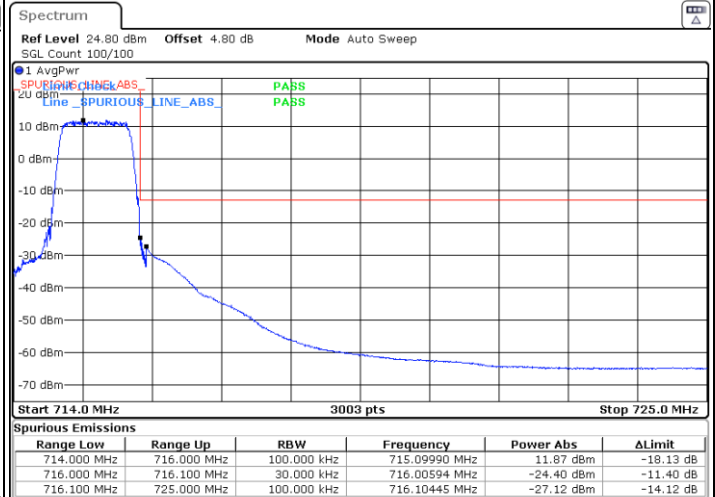
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



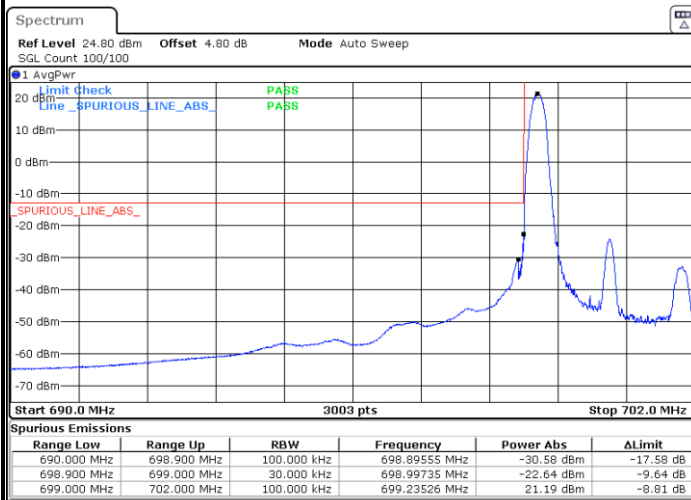
Highest Band Edge / Full RB



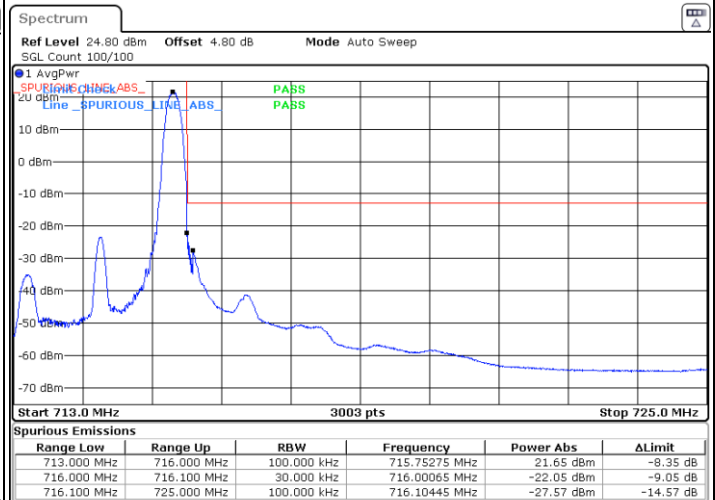


LTE Band 12 / 3MHz / QPSK

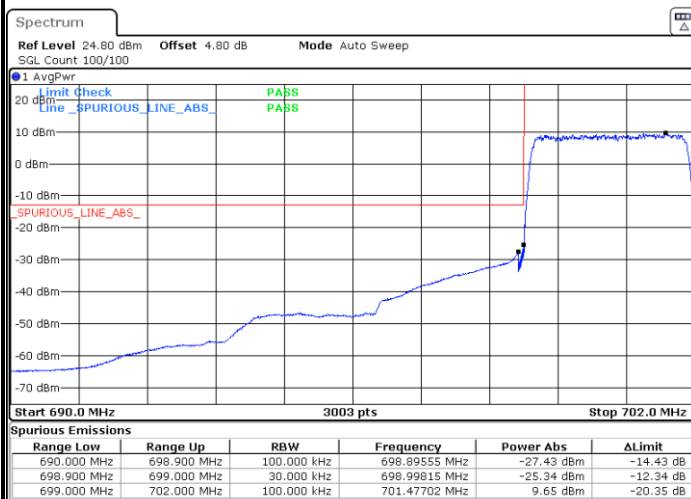
Lowest Band Edge / 1RB



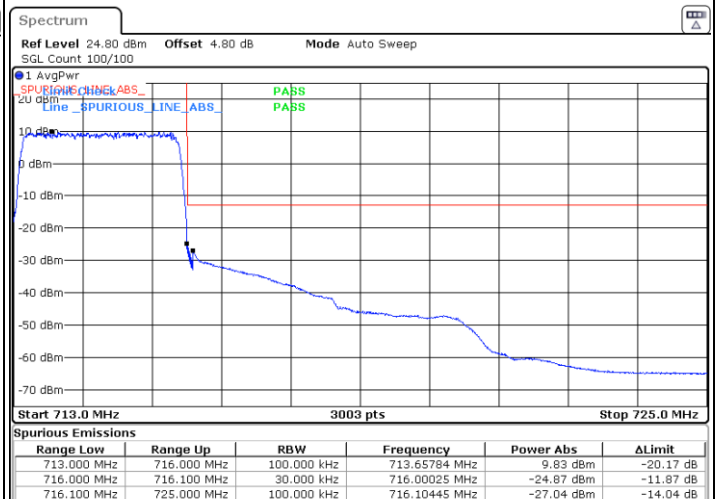
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



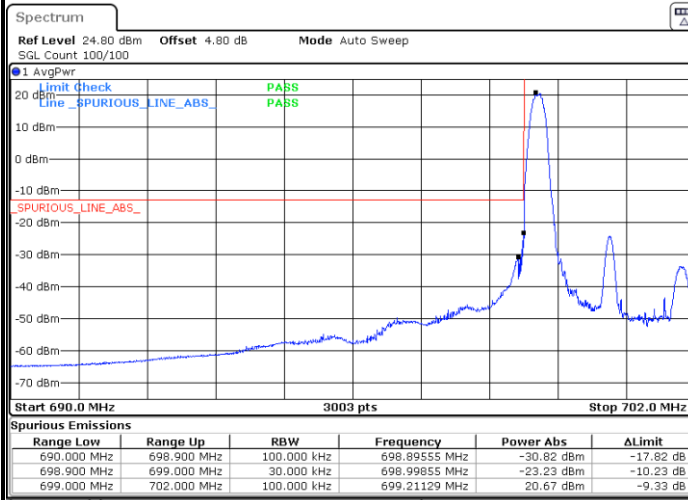
Highest Band Edge / Full RB



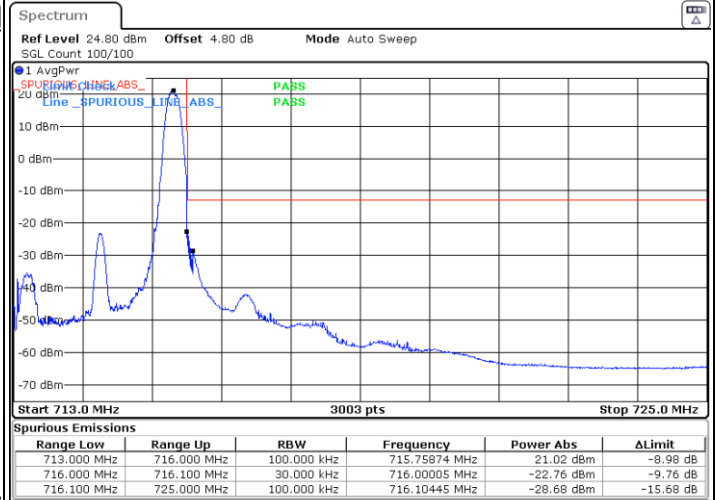


LTE Band 12 / 3MHz / 16QAM

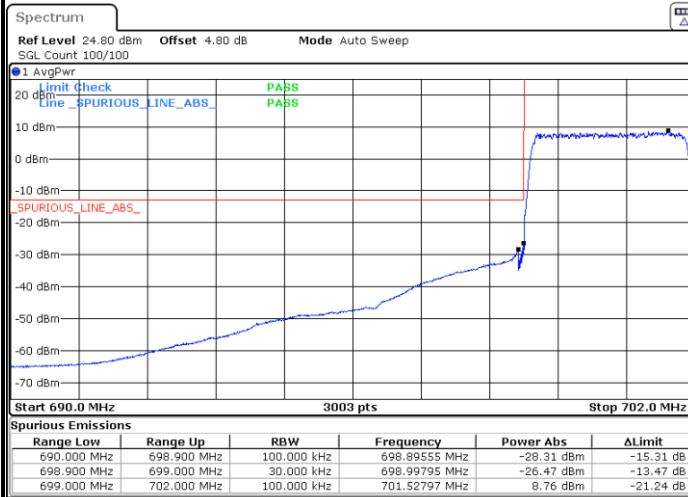
Lowest Band Edge / 1 RB



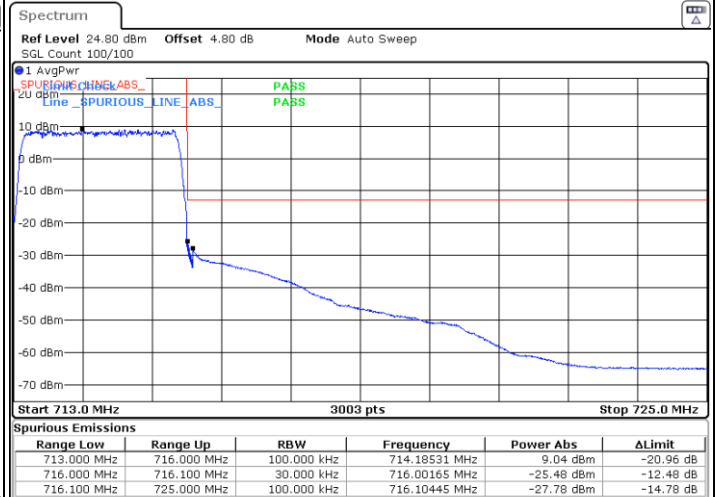
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



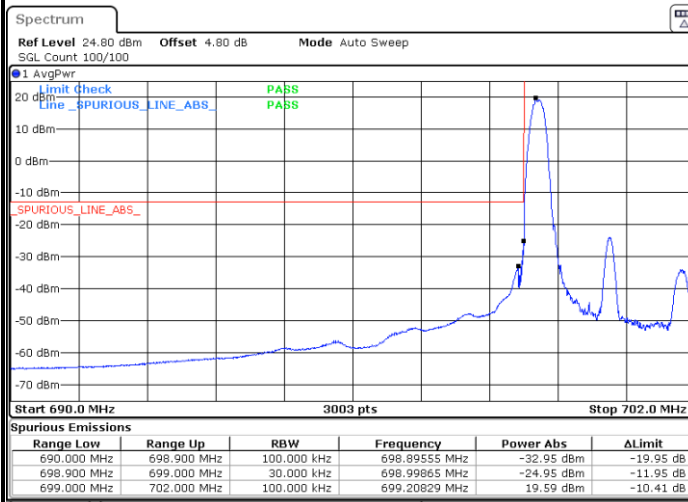
Highest Band Edge / Full RB



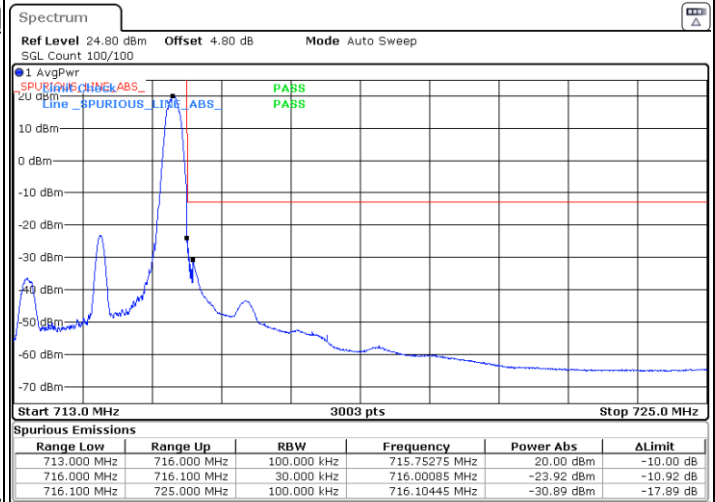


LTE Band 12 / 3MHz / 64QAM

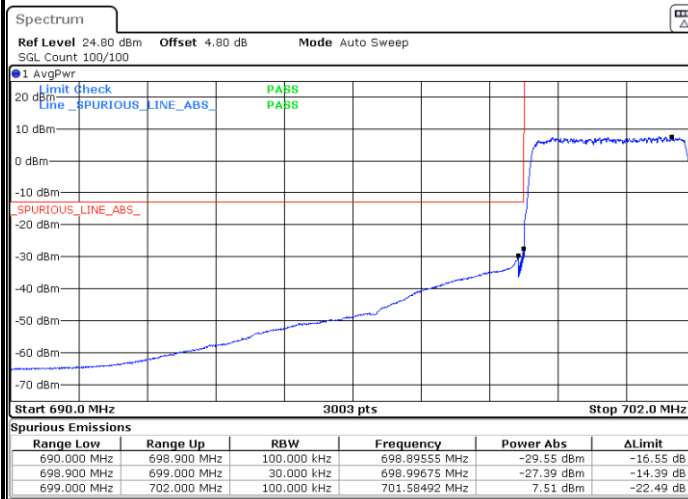
Lowest Band Edge / 1 RB



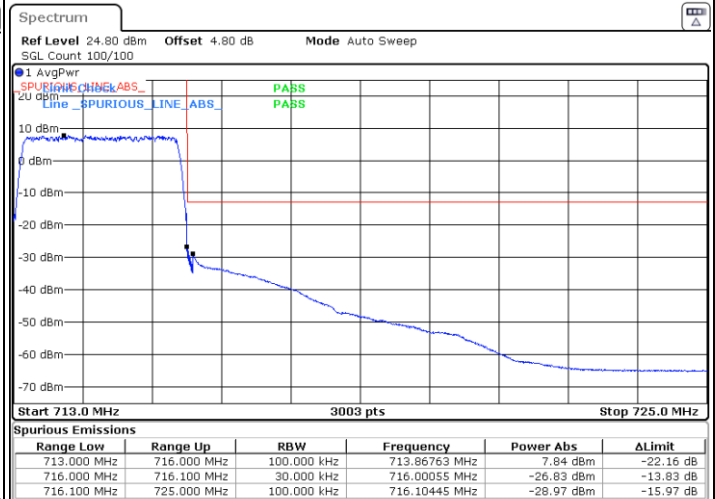
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



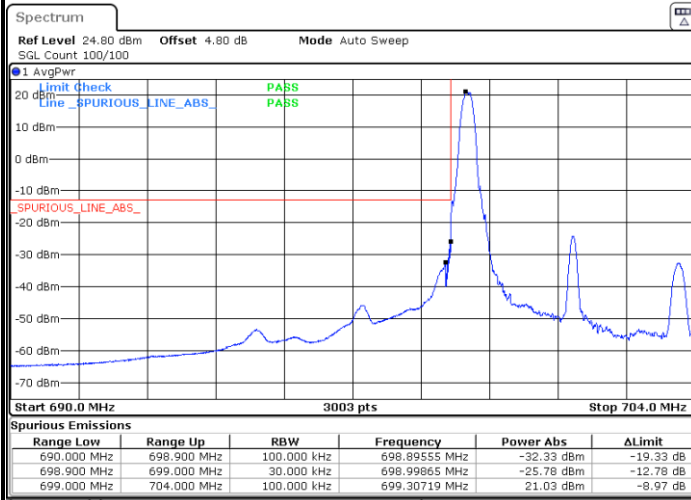
Highest Band Edge / Full RB



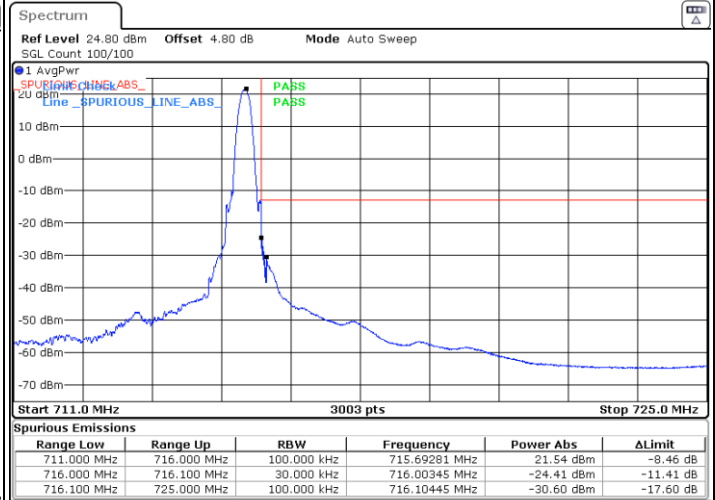


LTE Band 12 / 5MHz / QPSK

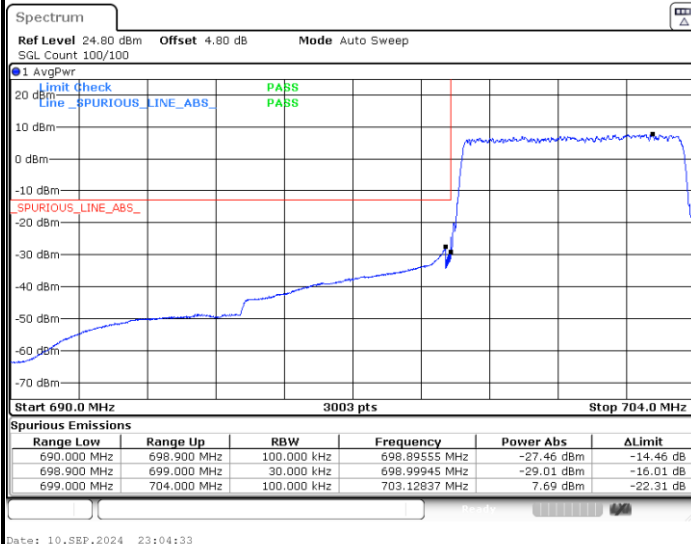
Lowest Band Edge / 1 RB



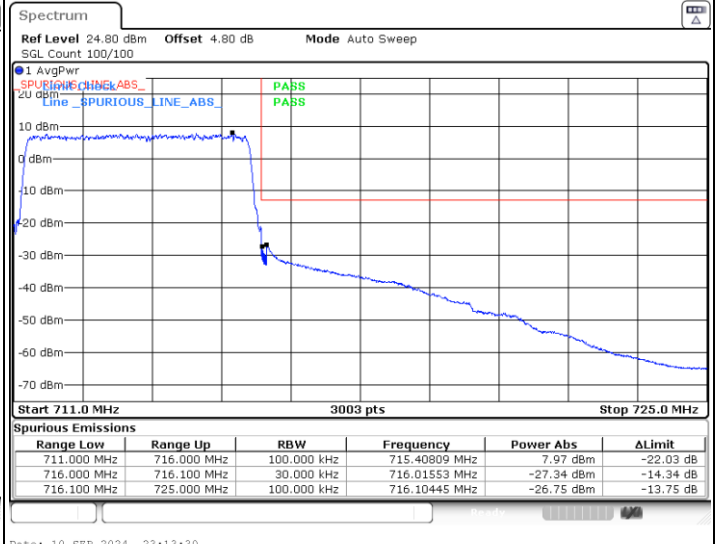
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



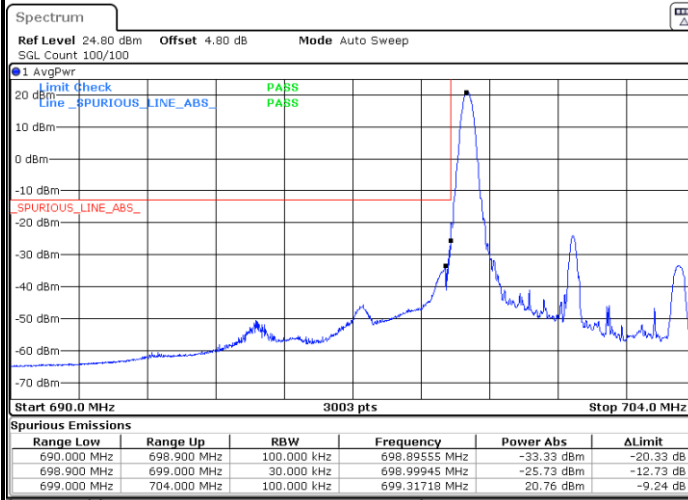
Highest Band Edge / Full RB



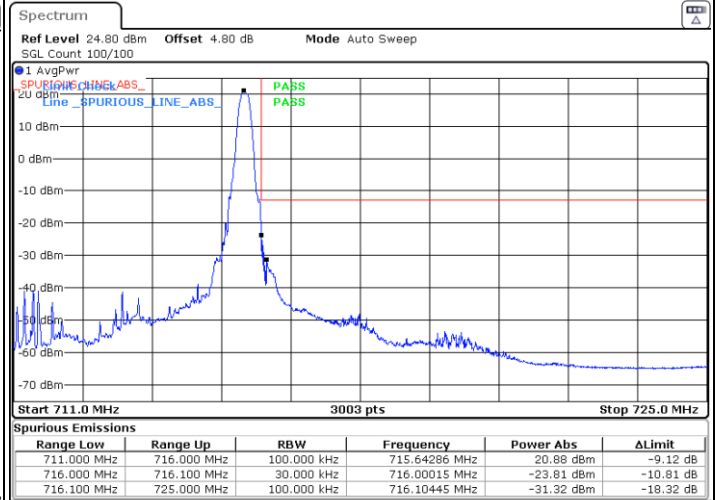


LTE Band 12 / 5MHz / 16QAM

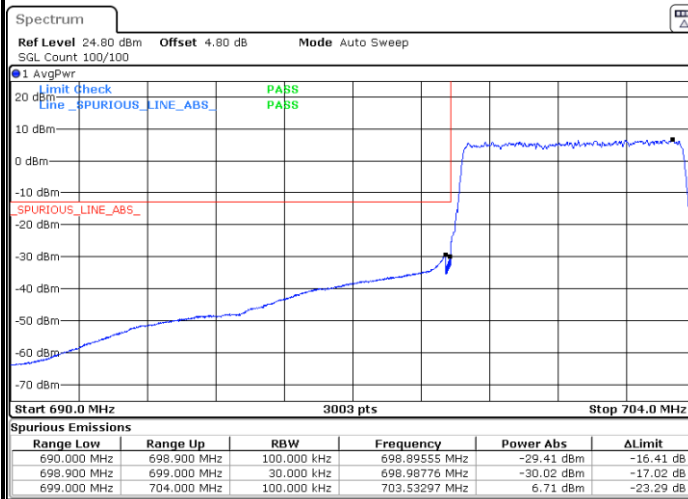
Lowest Band Edge / 1RB



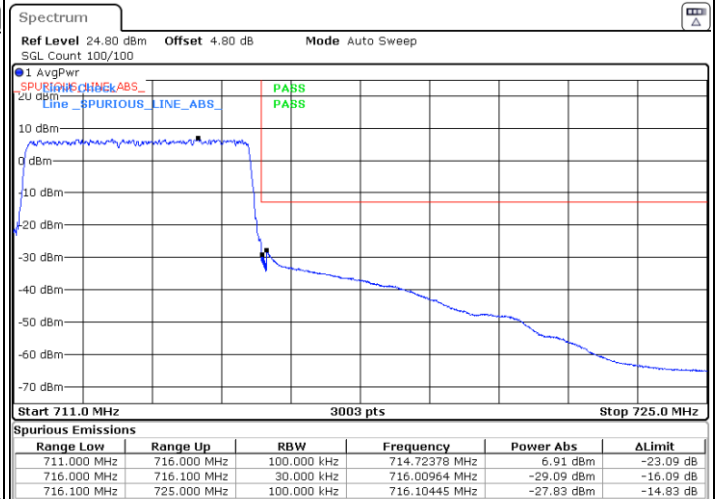
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



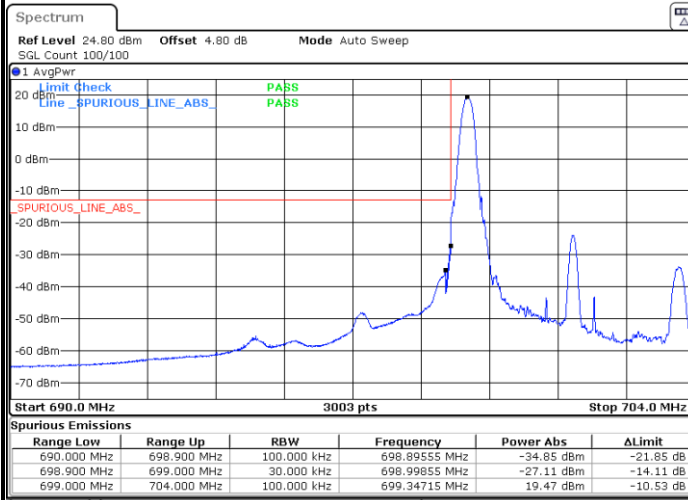
Highest Band Edge / Full RB



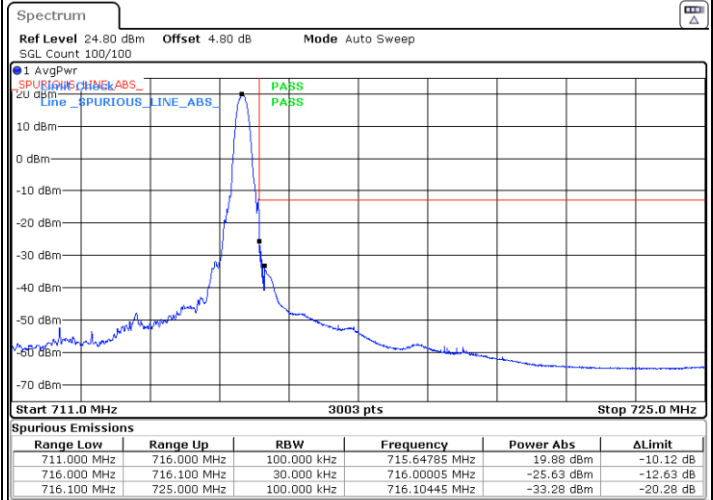


LTE Band 12 / 5MHz / 64QAM

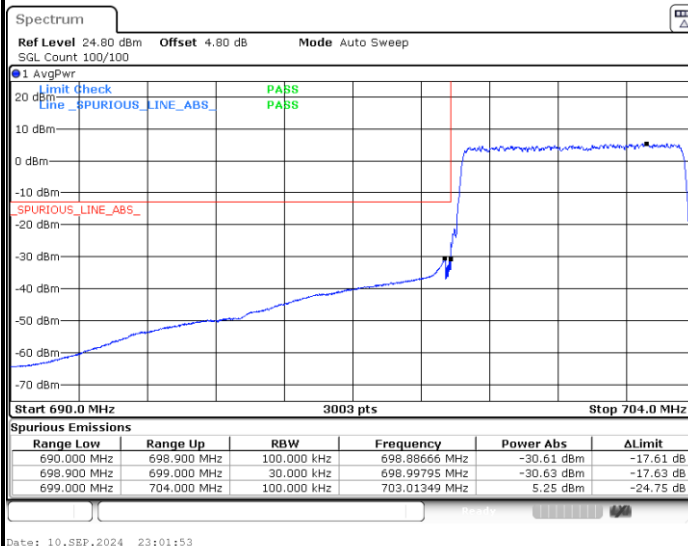
Lowest Band Edge / 1RB



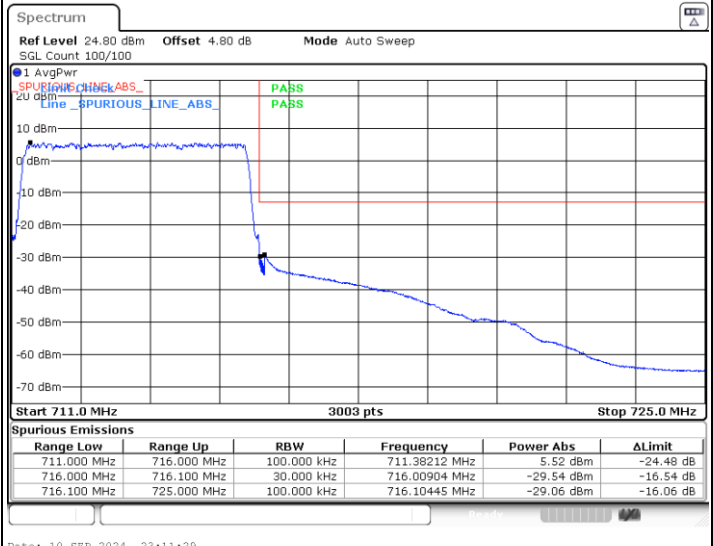
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



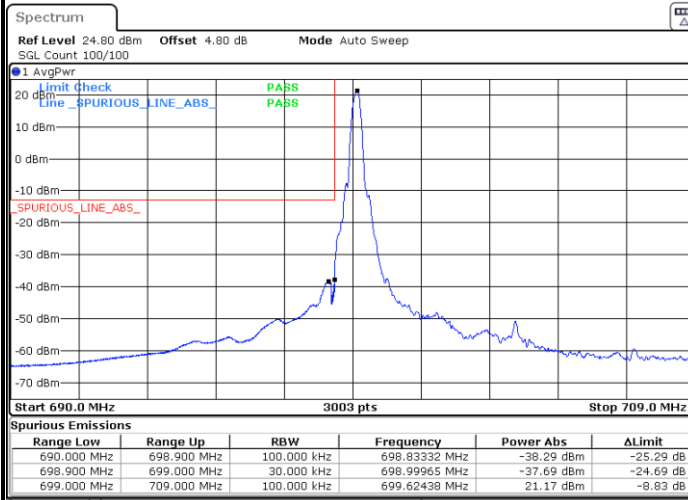
Highest Band Edge / Full RB



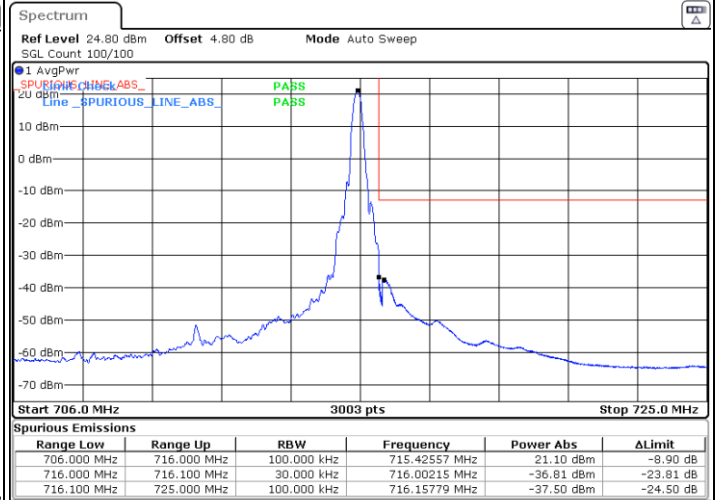


LTE Band 12 / 10MHz / QPSK

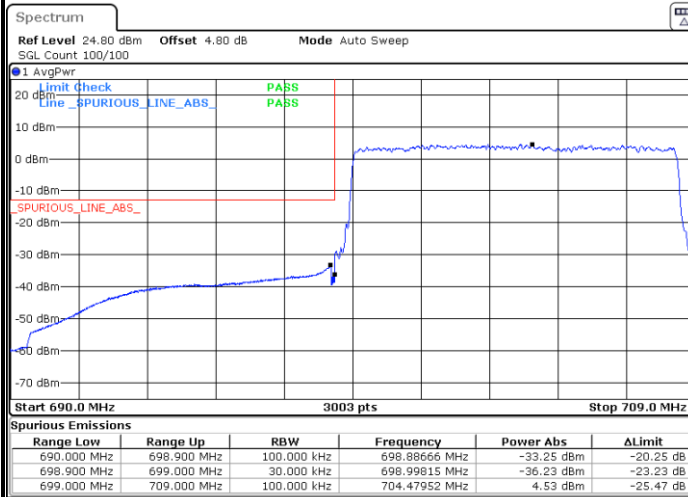
Lowest Band Edge / 1 RB



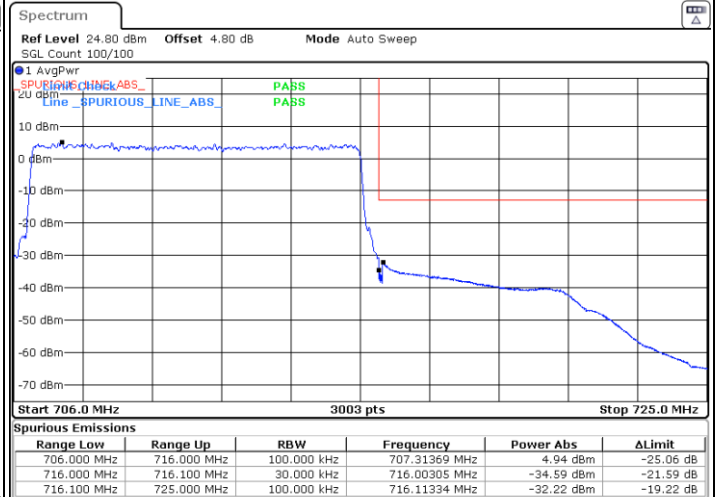
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



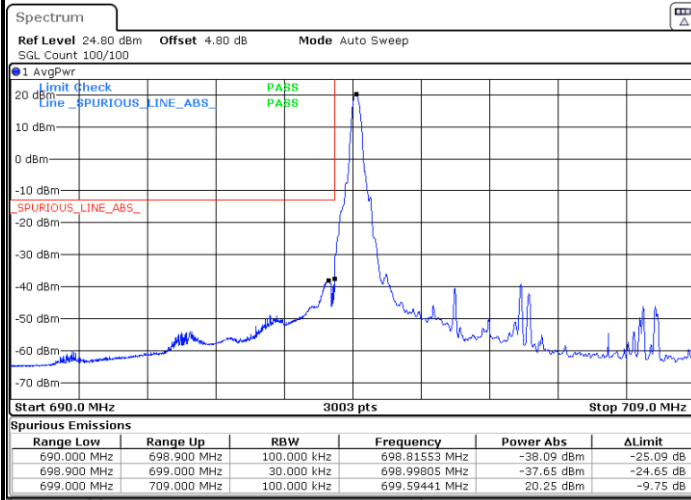
Highest Band Edge / Full RB



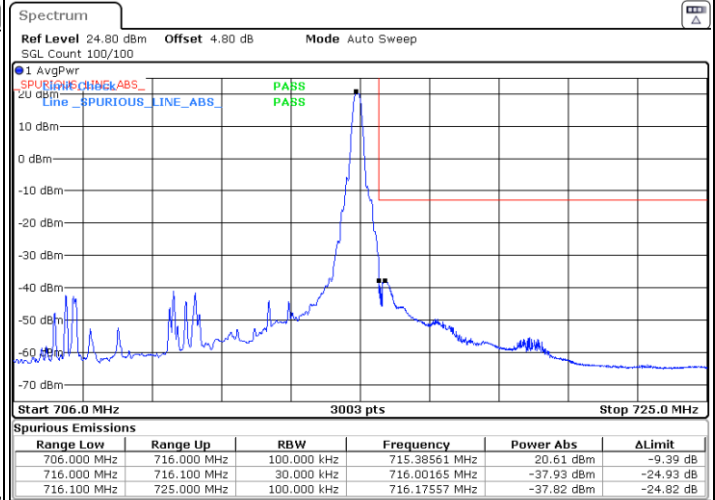


LTE Band 12 / 10MHz / 16QAM

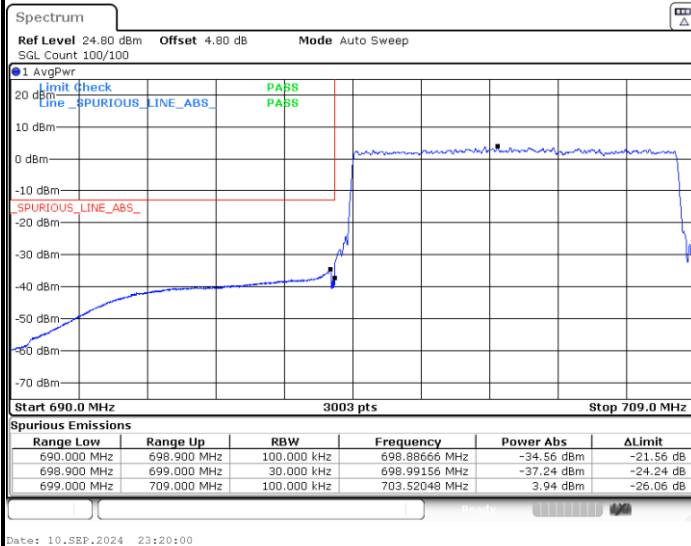
Lowest Band Edge / 1 RB



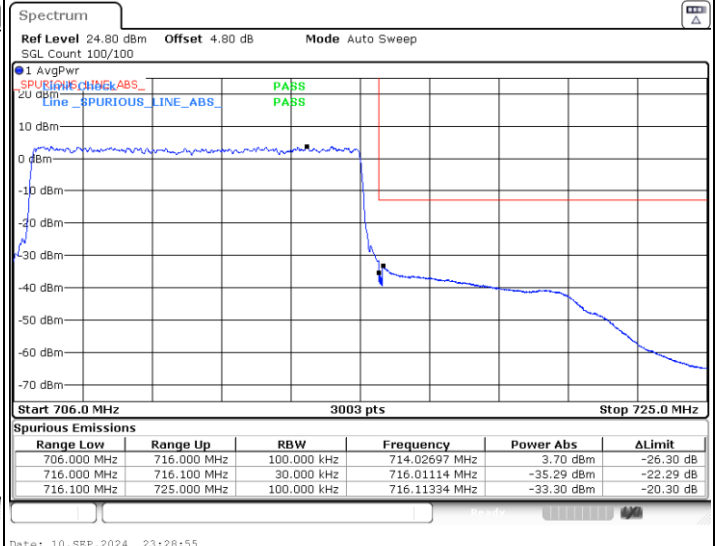
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



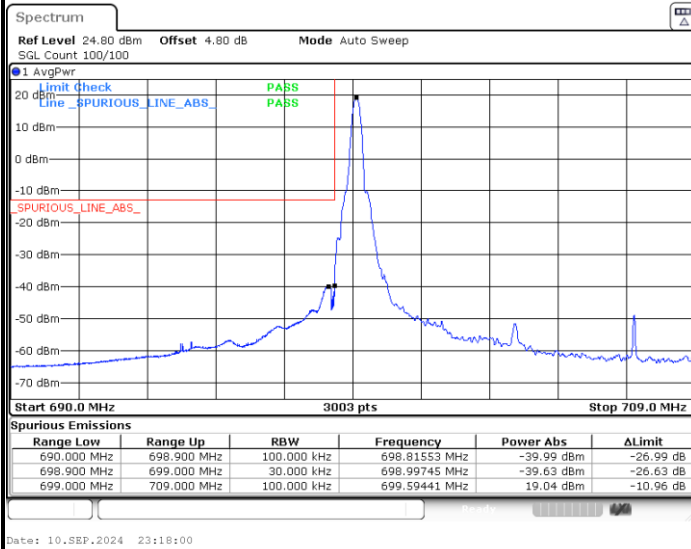
Highest Band Edge / Full RB



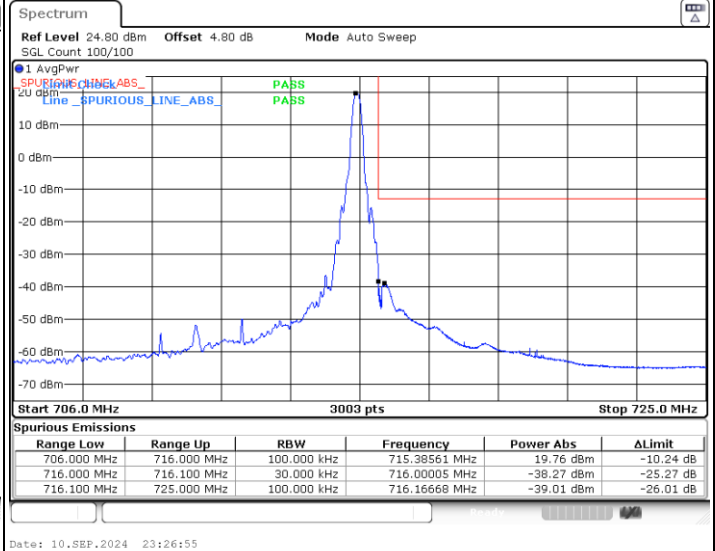


LTE Band 12 / 10MHz / 64QAM

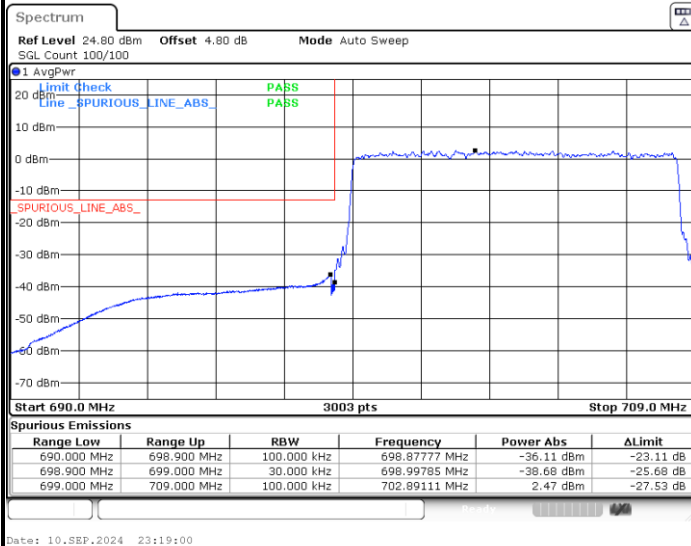
Lowest Band Edge / 1 RB



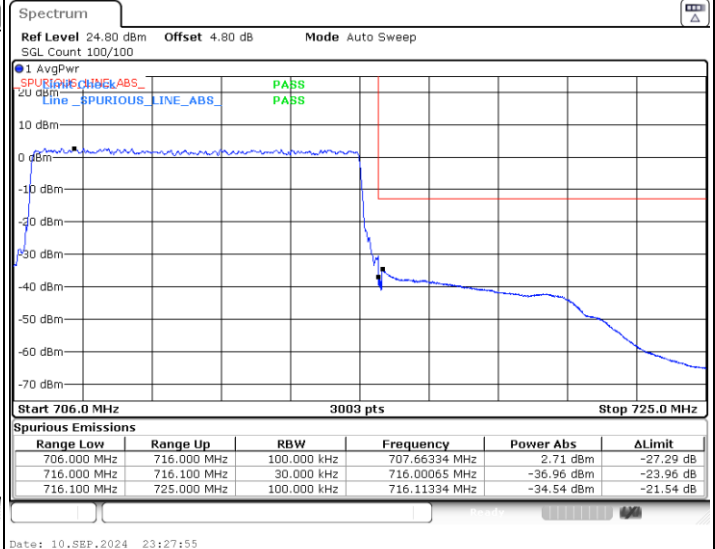
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

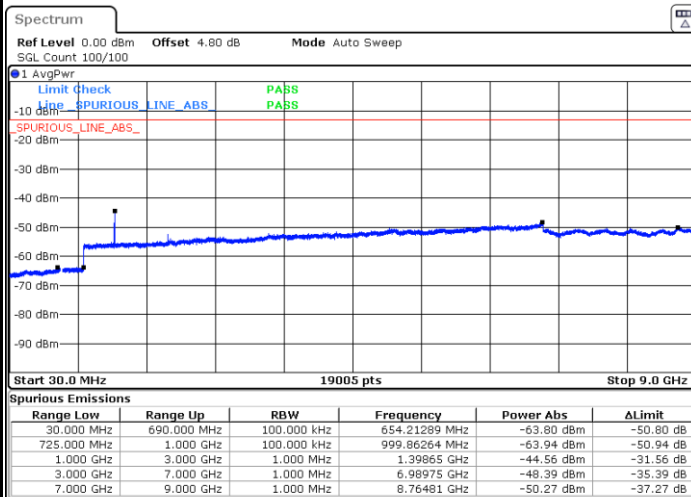




Conducted Spurious Emission

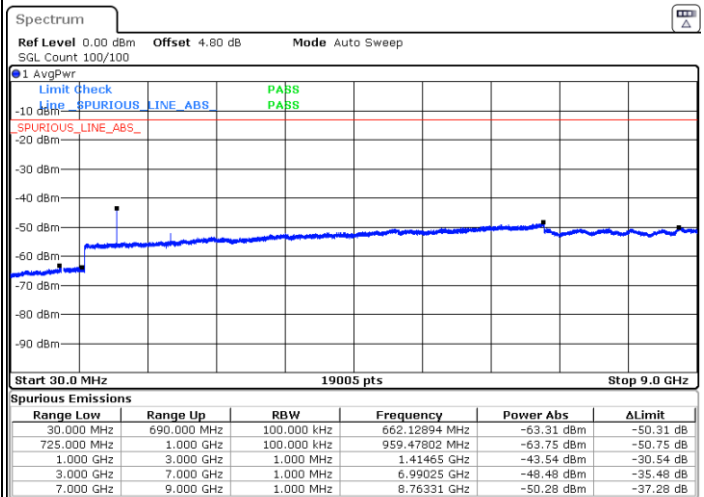
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



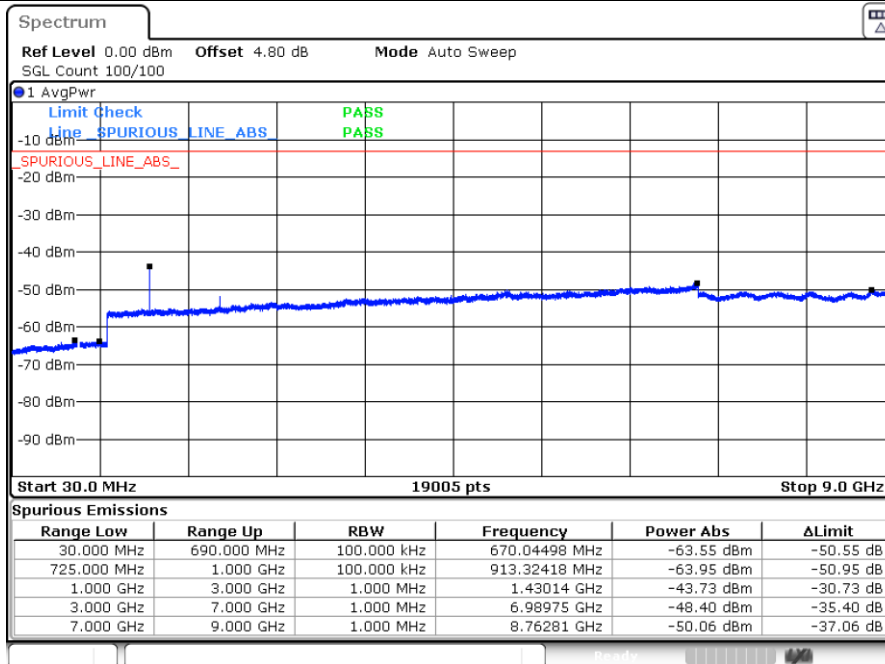
Date: 10.SEP.2024 22:15:38

Middle Channel / QPSK



Date: 10.SEP.2024 22:25:08

Highest Channel / QPSK

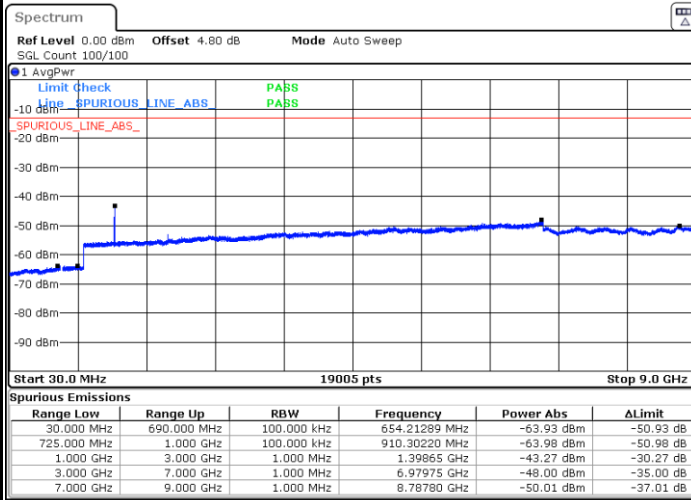


Date: 10.SEP.2024 22:26:35



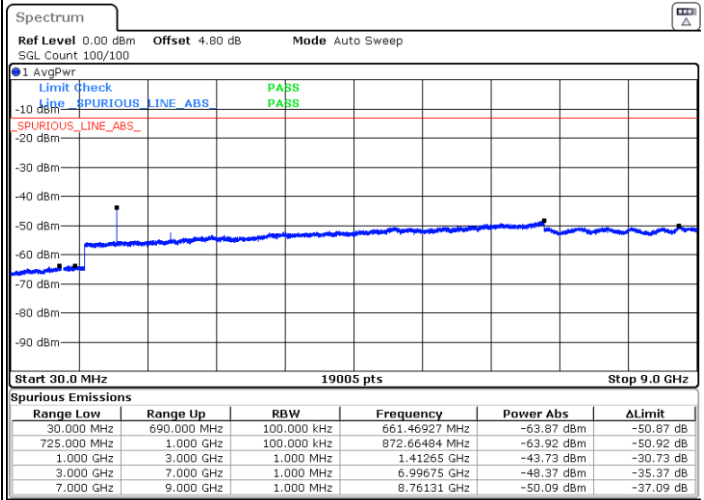
LTE Band 12 / 3MHz

Lowest Channel / QPSK



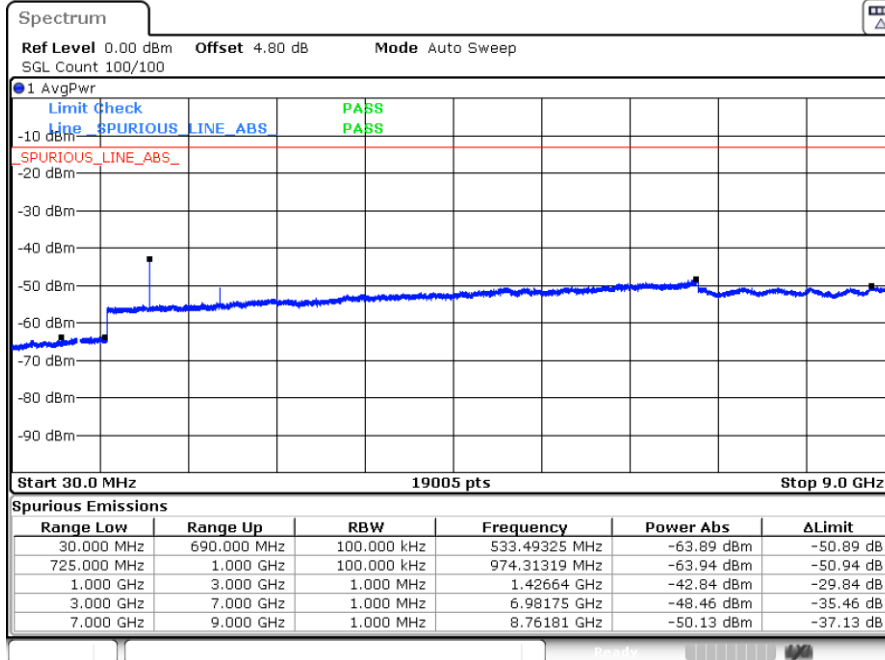
Date: 10.SEP.2024 22:36:06

Middle Channel / QPSK



Date: 10.SEP.2024 22:45:34

Highest Channel / QPSK

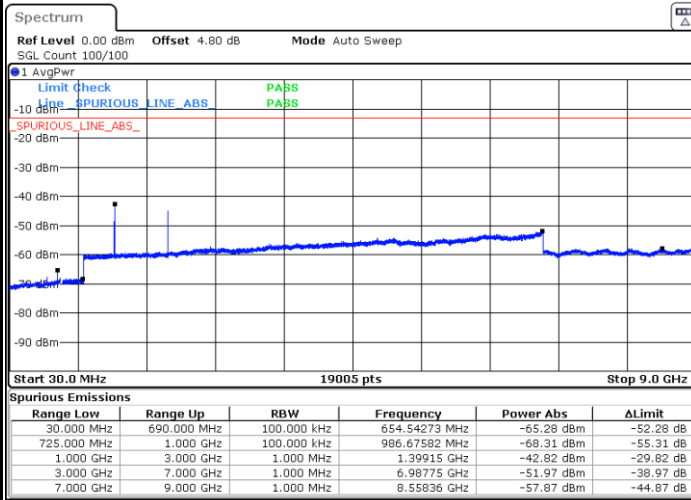


Date: 10.SEP.2024 22:47:02



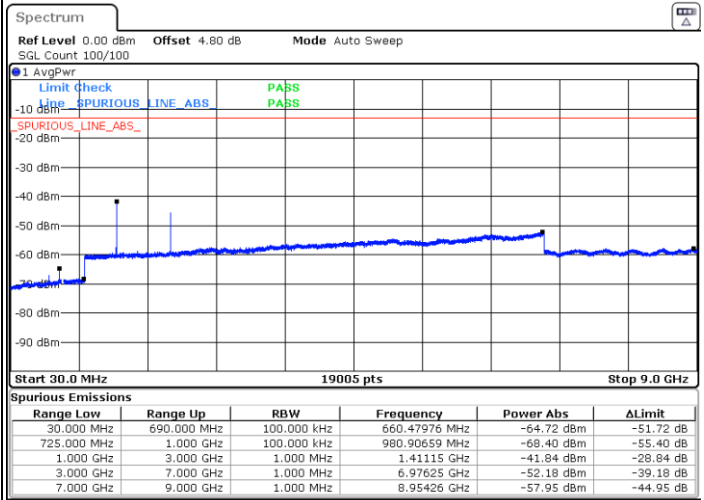
LTE Band 12 / 5MHz

Lowest Channel / QPSK



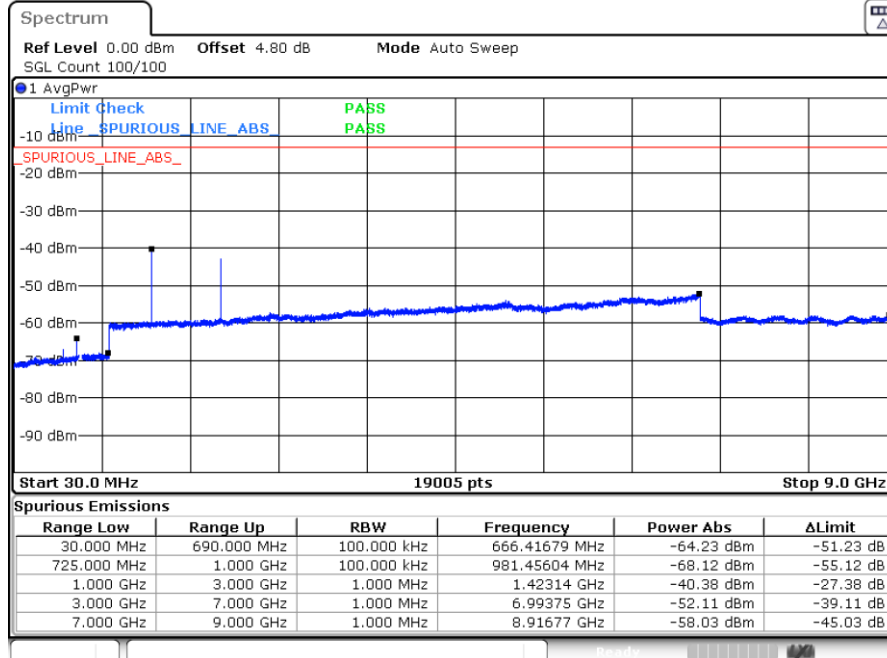
Date: 10.SEP.2024 22:56:32

Middle Channel / QPSK



Date: 10.SEP.2024 23:06:01

Highest Channel / QPSK

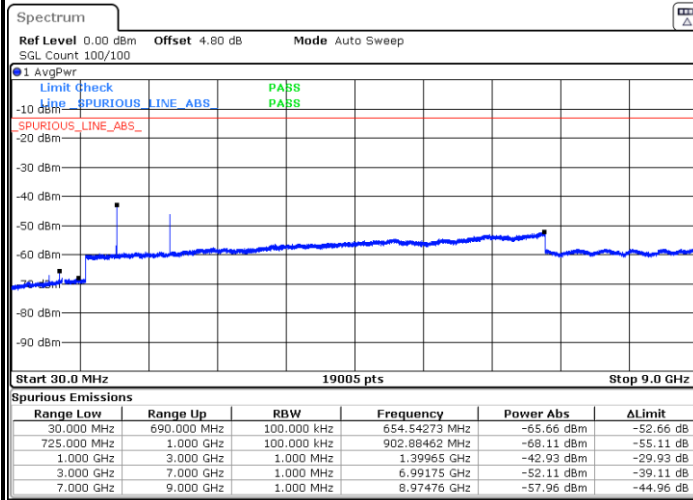


Date: 10.SEP.2024 23:07:29



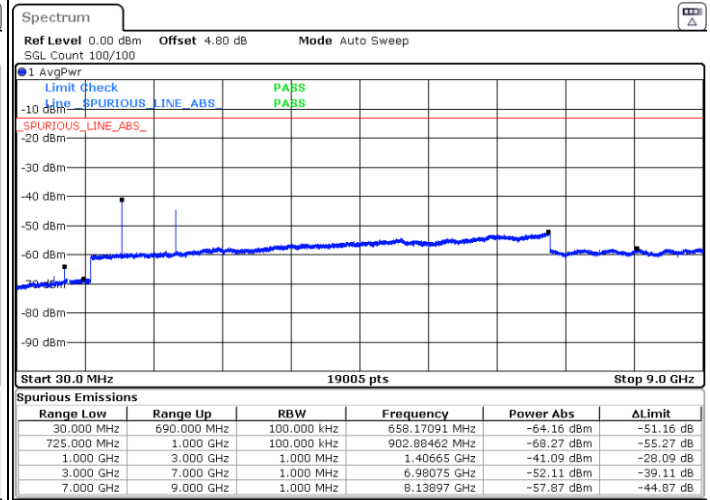
LTE Band 12 / 10MHz

Lowest Channel / QPSK



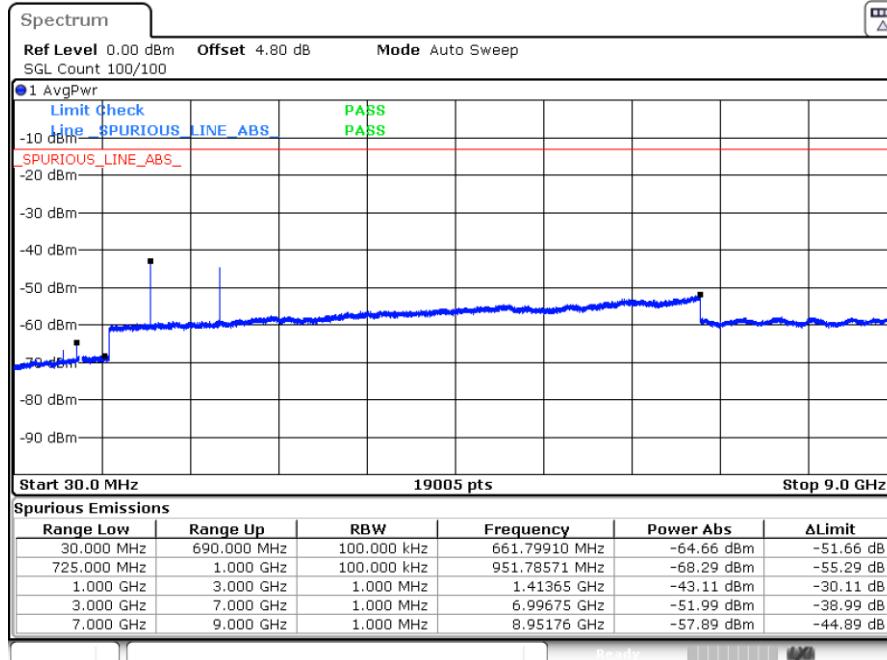
Date: 10.SEP.2024 23:14:58

Middle Channel / QPSK



Date: 10.SEP.2024 23:22:27

Highest Channel / QPSK



Date: 10.SEP.2024 23:23:54

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	0.0015	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0002	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	-0.0024	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0016	

Note:

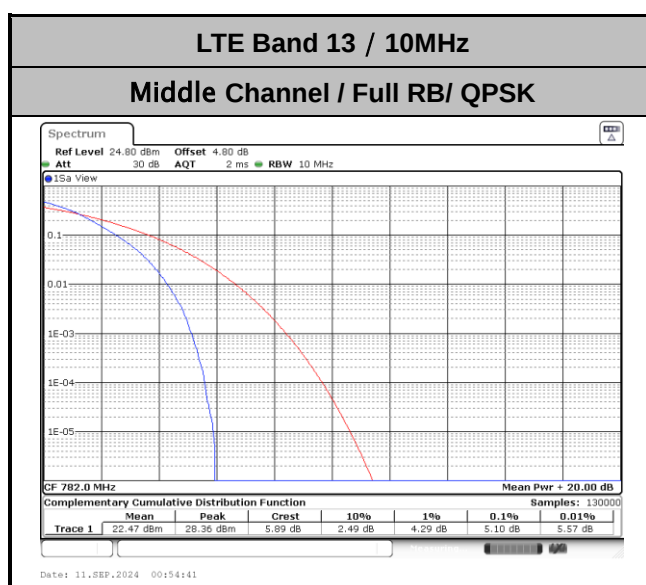
1. Normal Voltage =3.85V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

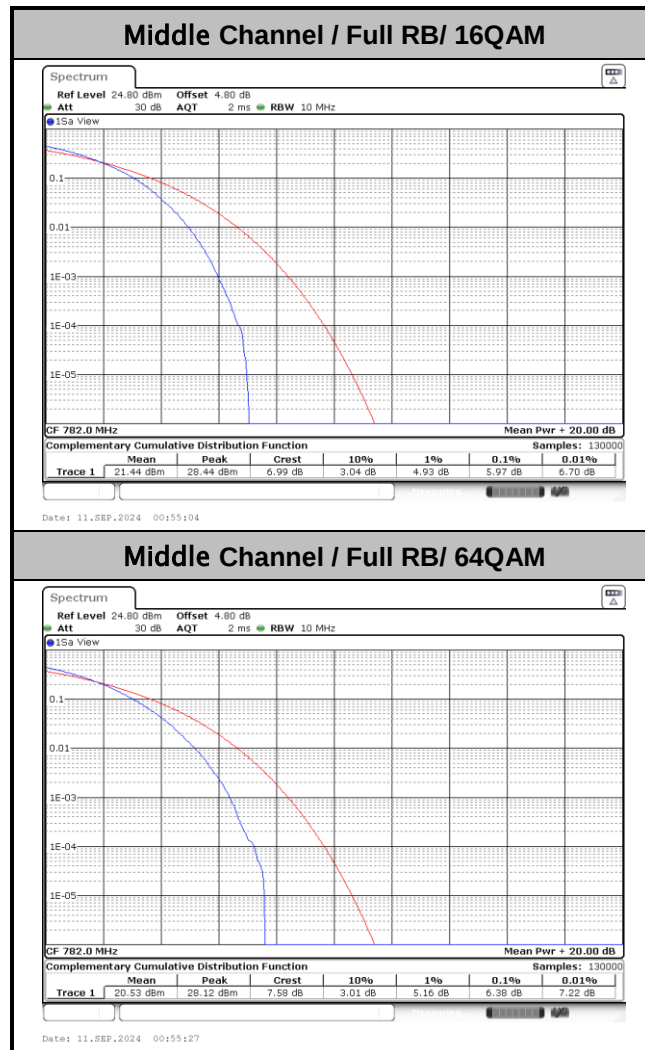


LTE Band 13

Peak-to-Average Ratio

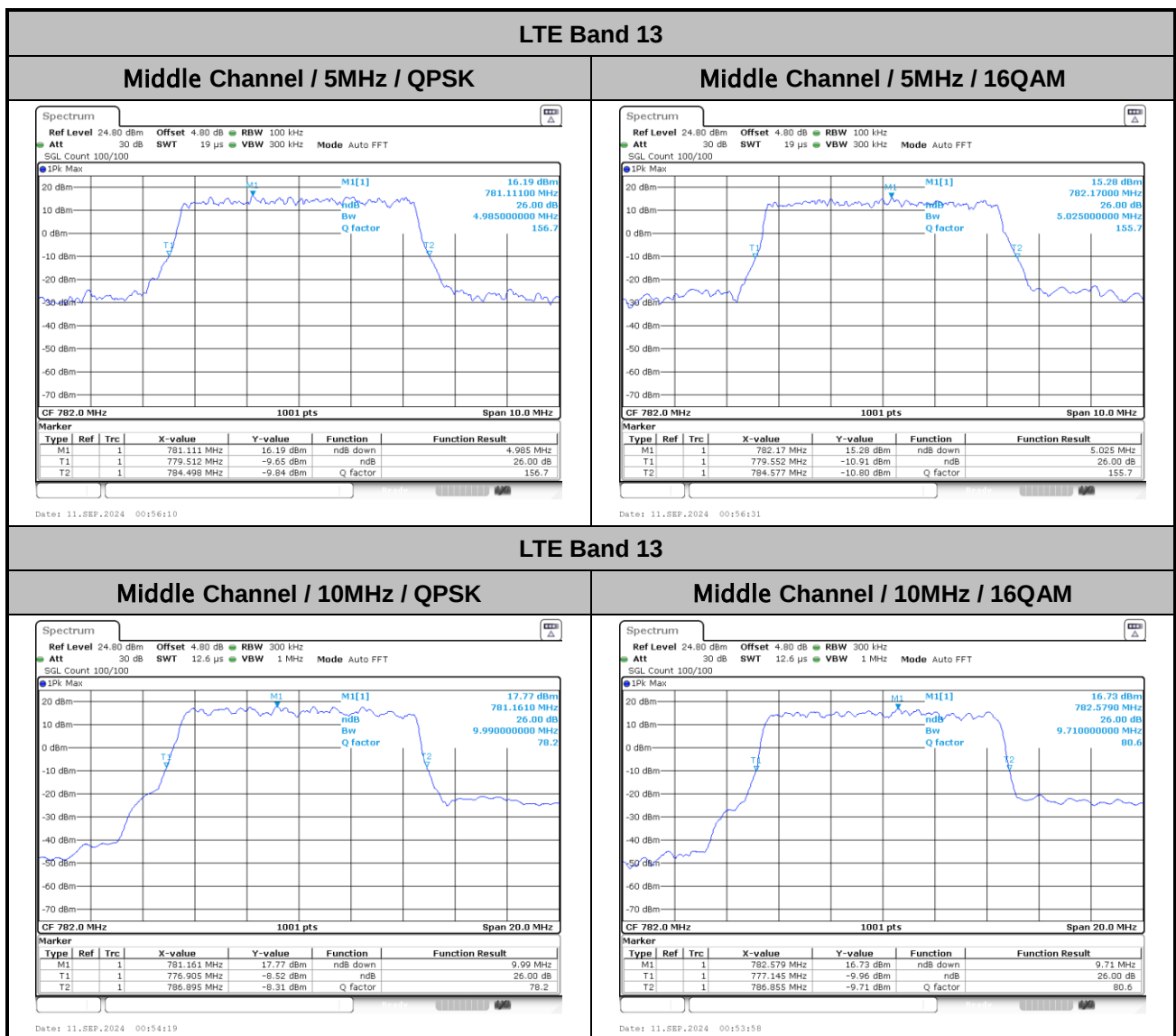
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.10	5.97	6.38	PASS





**26dB Bandwidth**

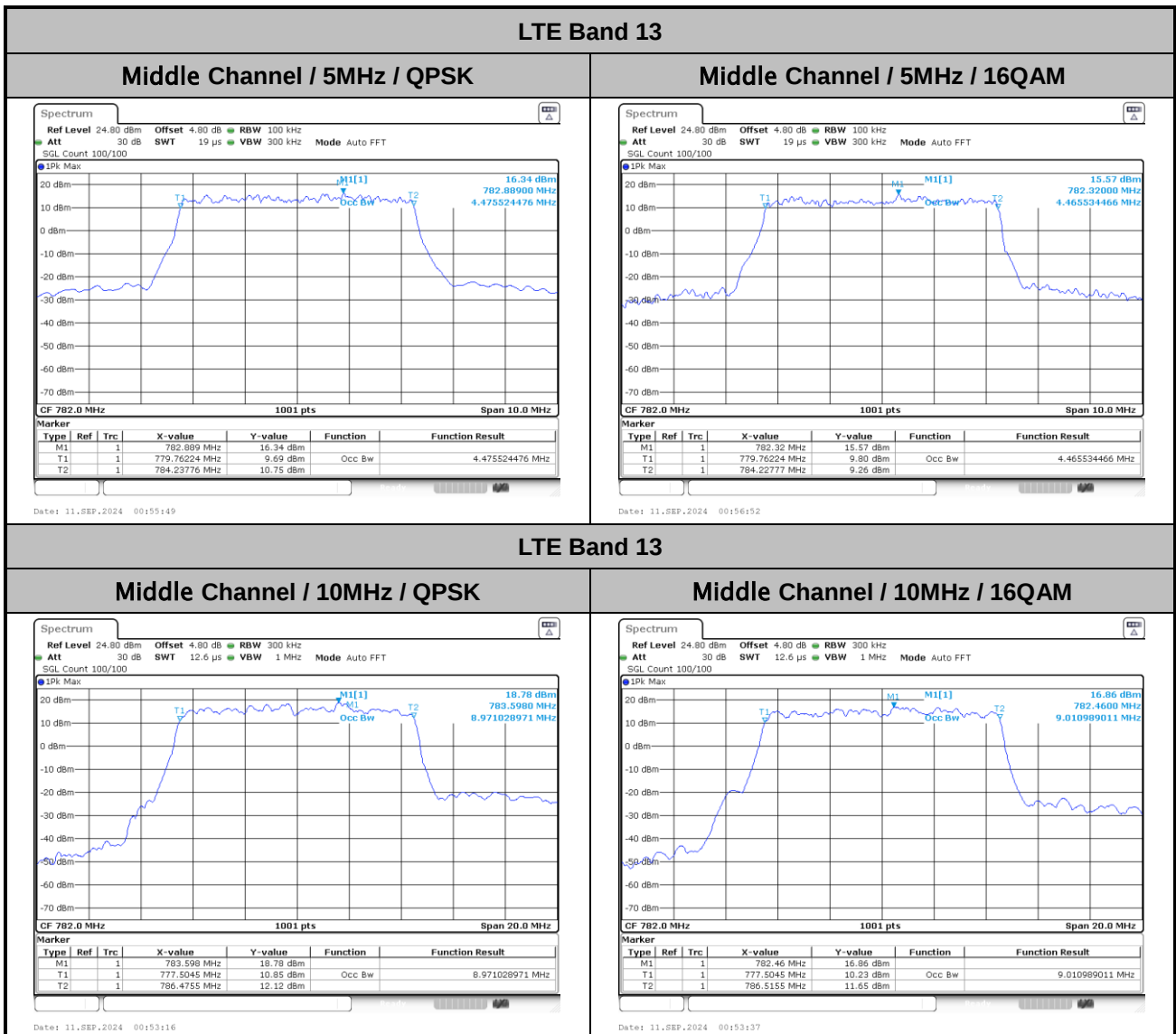
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.99	5.03
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.99	9.71

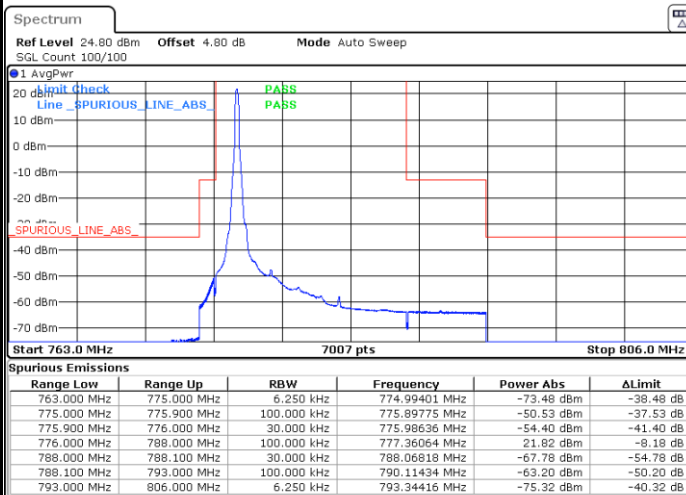
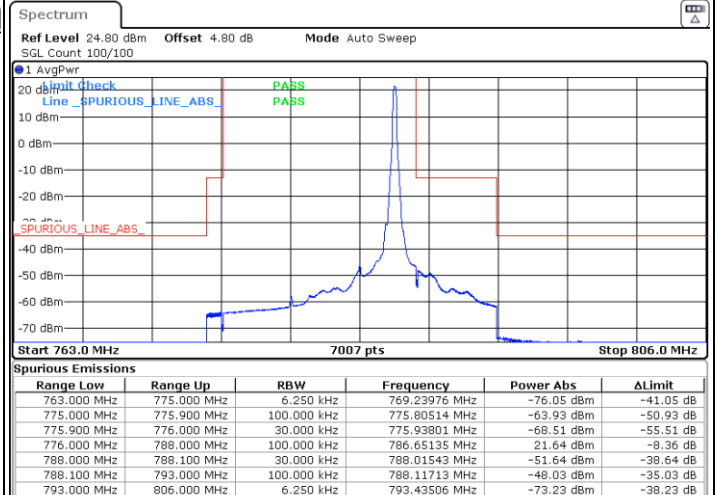
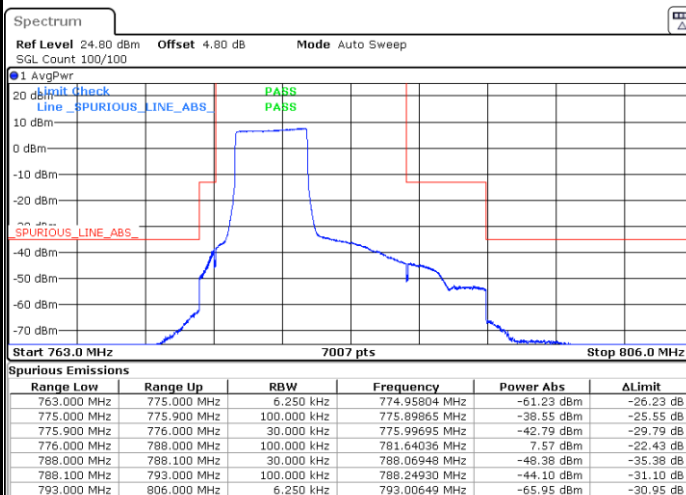
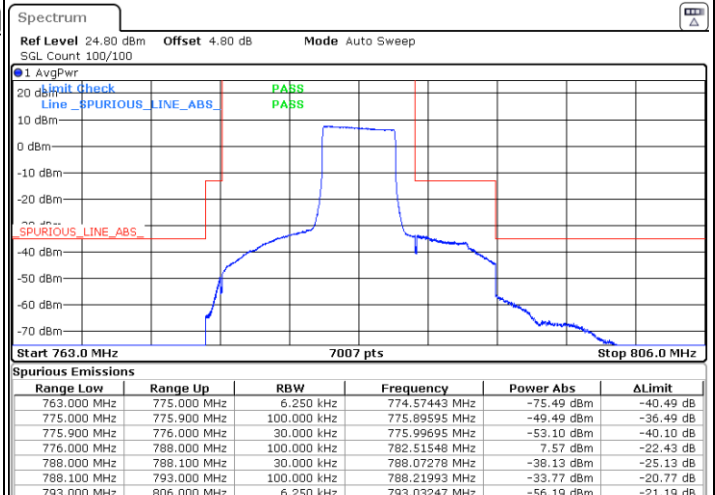




Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.47	4.4
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.97	9.01

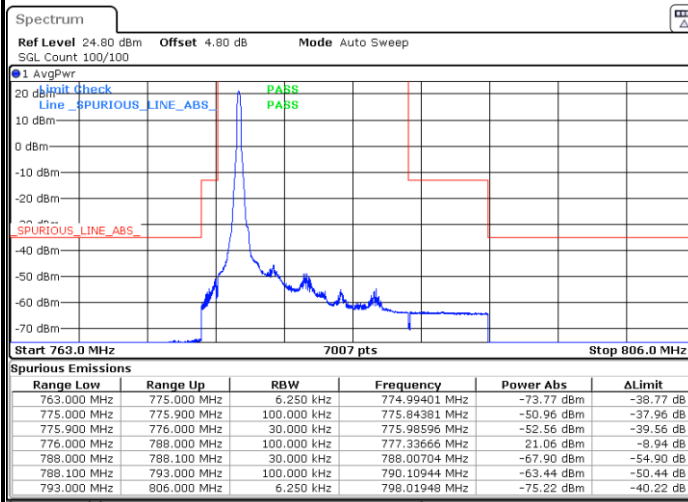


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



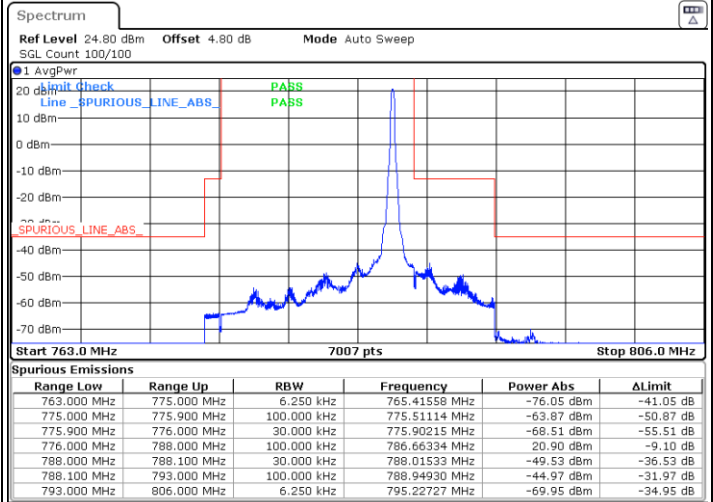
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



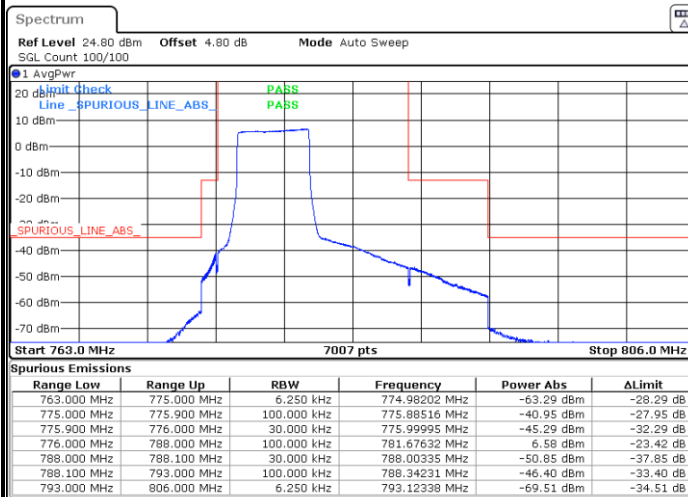
Date: 11.SEP.2024 00:13:41

Highest Band Edge / 1 RB



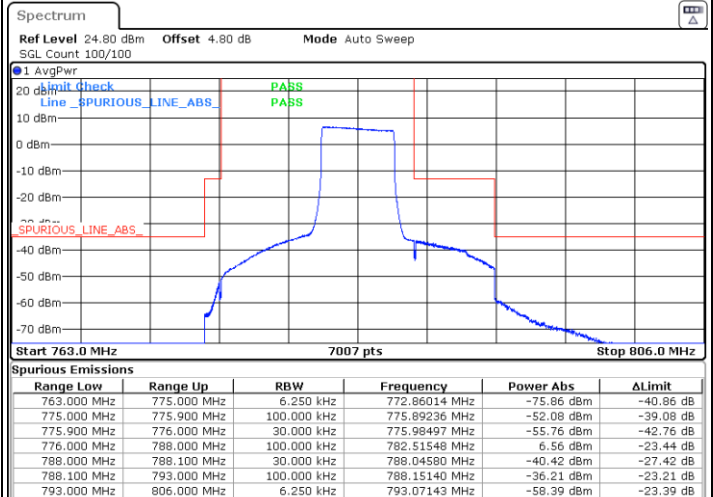
Date: 11.SEP.2024 00:27:37

Lowest Band Edge / Full RB



Date: 11.SEP.2024 00:19:12

Highest Band Edge / Full RB

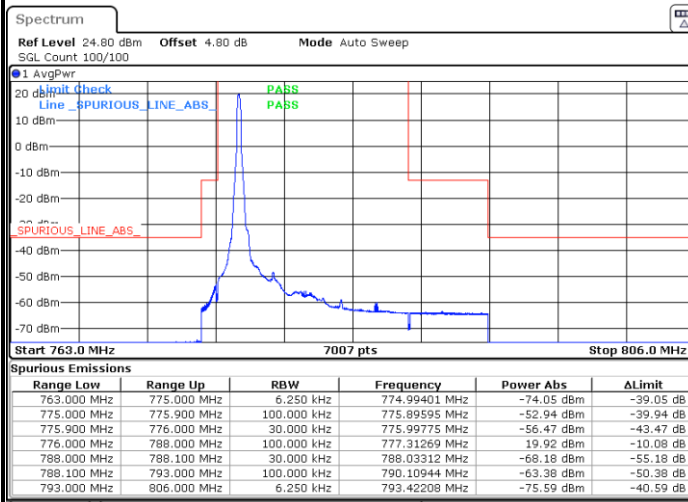


Date: 11.SEP.2024 00:33:08



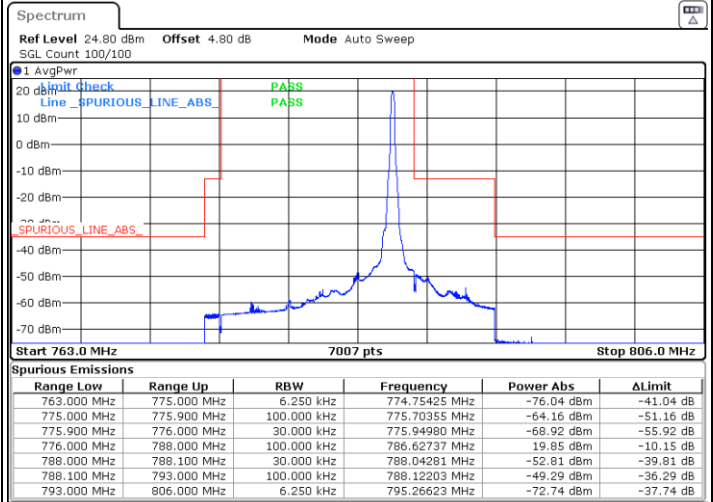
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



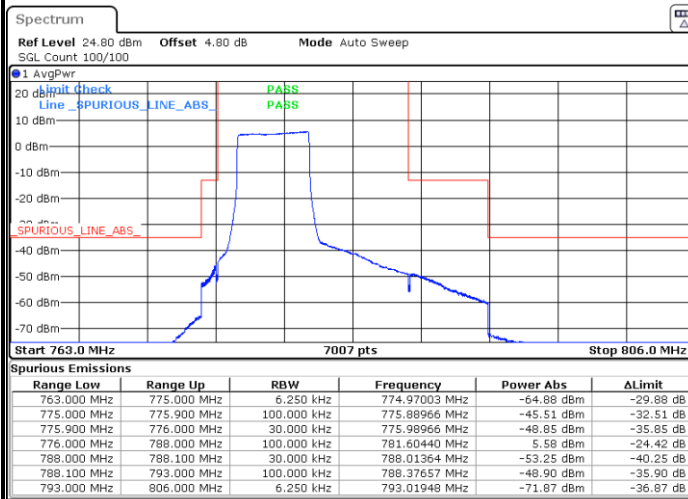
Date: 11.SEP.2024 00:15:31

Highest Band Edge / 1 RB



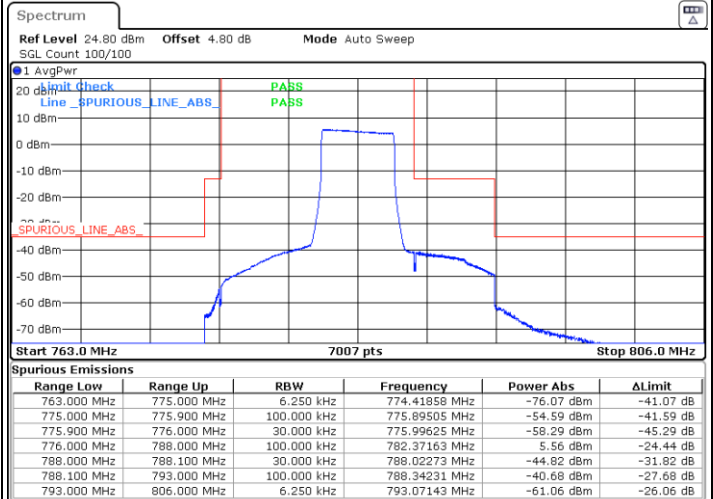
Date: 11.SEP.2024 00:29:28

Lowest Band Edge / Full RB



Date: 11.SEP.2024 00:17:21

Highest Band Edge / Full RB

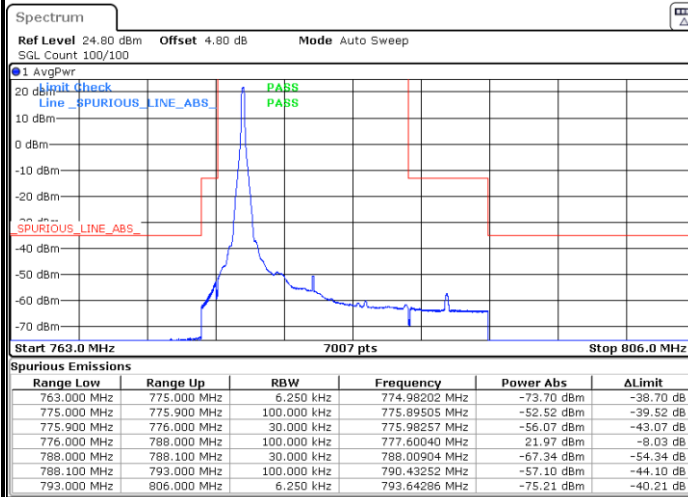


Date: 11.SEP.2024 00:31:18



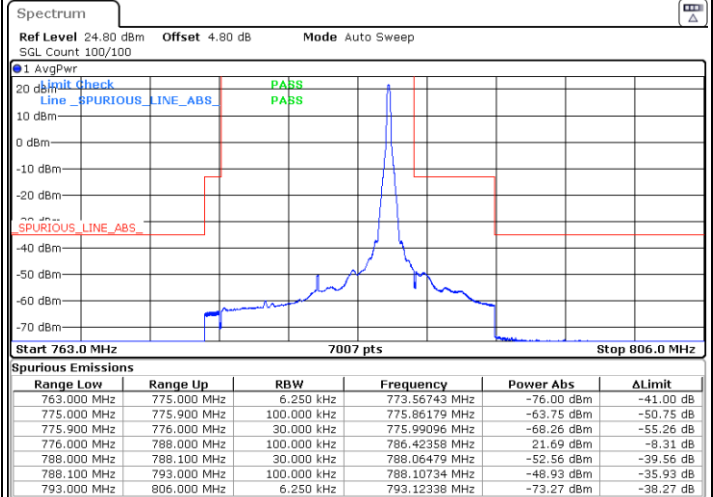
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



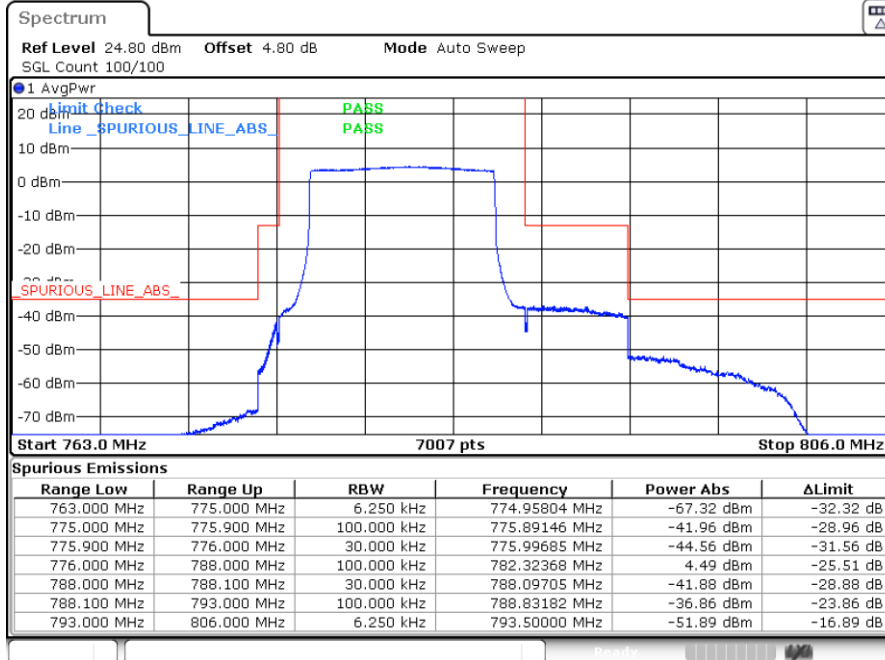
Date: 11.SEP.2024 00:38:16

middle Band Edge / 1 RB



Date: 11.SEP.2024 00:47:25

Middle Band Edge / Full RB

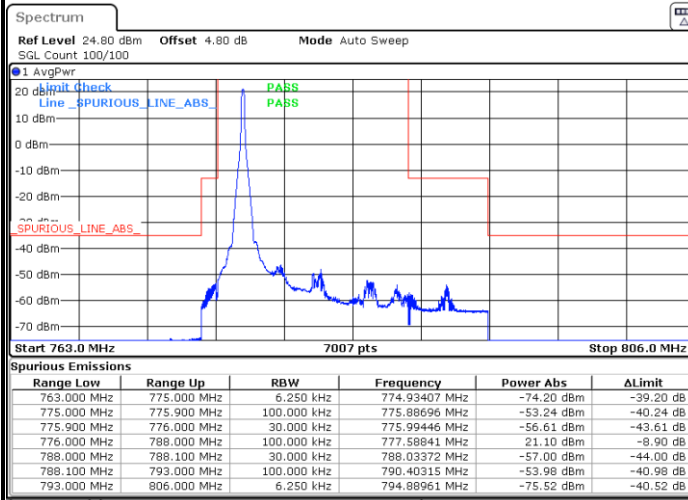


Date: 11.SEP.2024 00:49:15



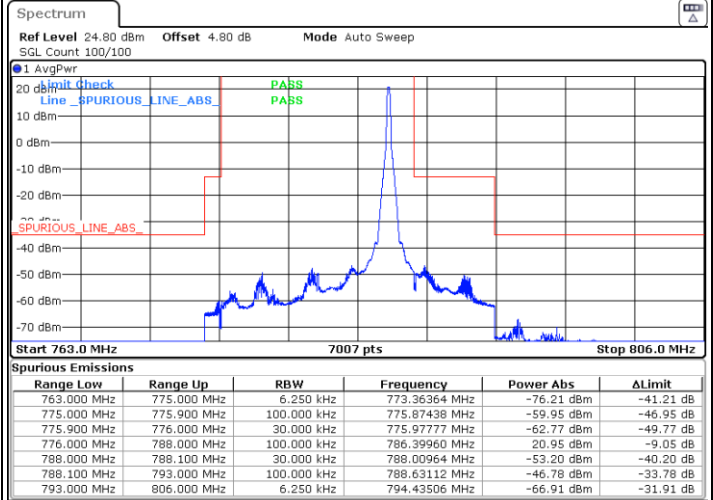
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



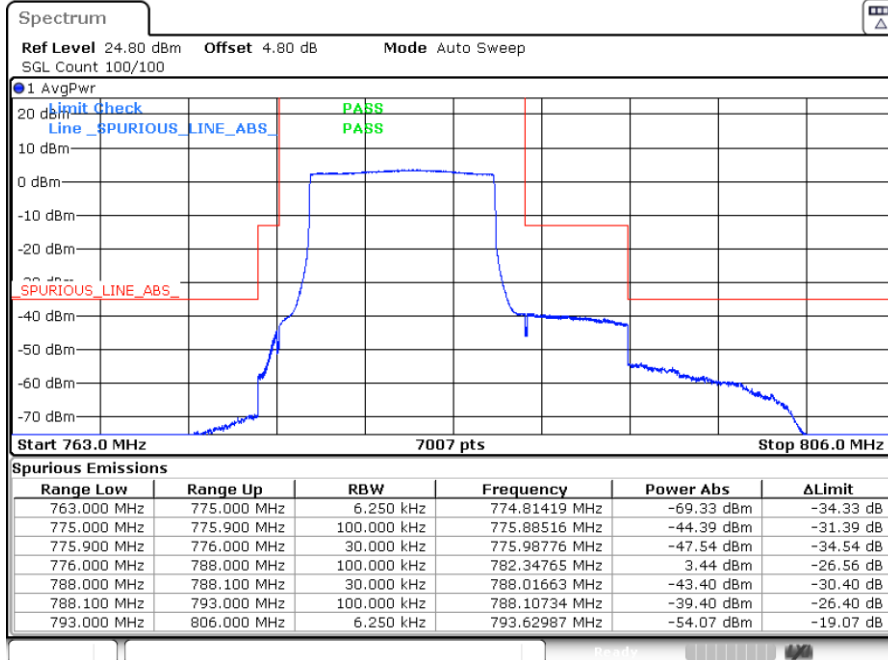
Date: 11.SEP.2024 00:40:06

middle Band Edge / 1 RB



Date: 11.SEP.2024 00:45:36

middle Band Edge / Full RB



Date: 11.SEP.2024 00:51:04