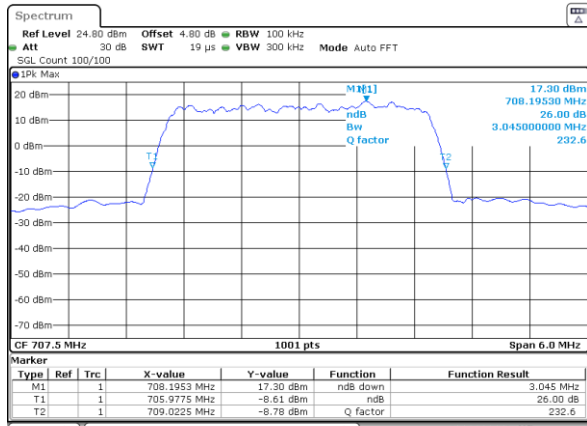




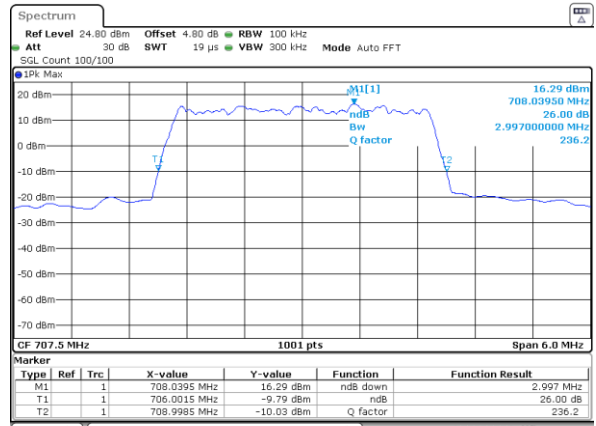
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 8.OCT.2024 15:36:31

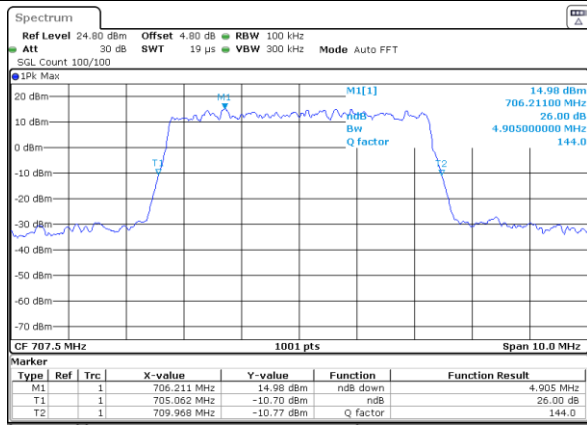
Middle Channel / 3MHz / 16QAM



Date: 8.OCT.2024 15:36:53

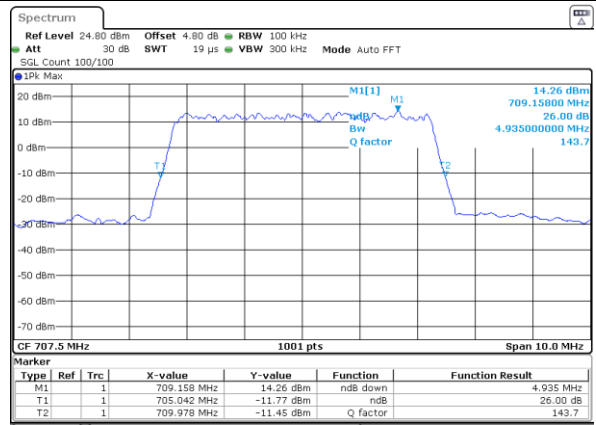
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 8.OCT.2024 15:35:05

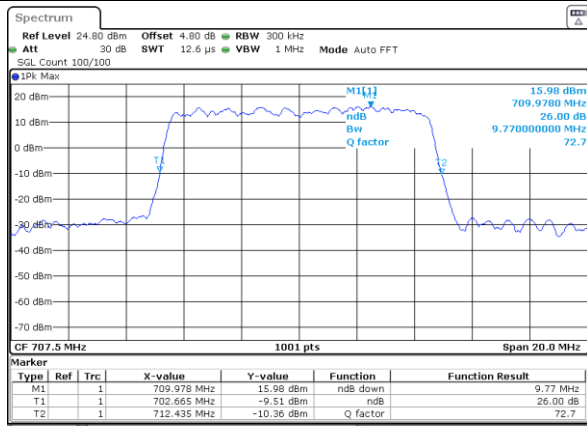
Middle Channel / 5MHz / 16QAM



Date: 8.OCT.2024 15:35:27

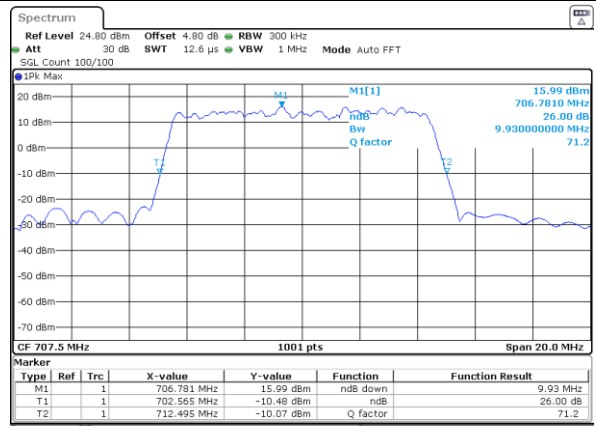
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 8.OCT.2024 15:34:01

Middle Channel / 10MHz / 16QAM

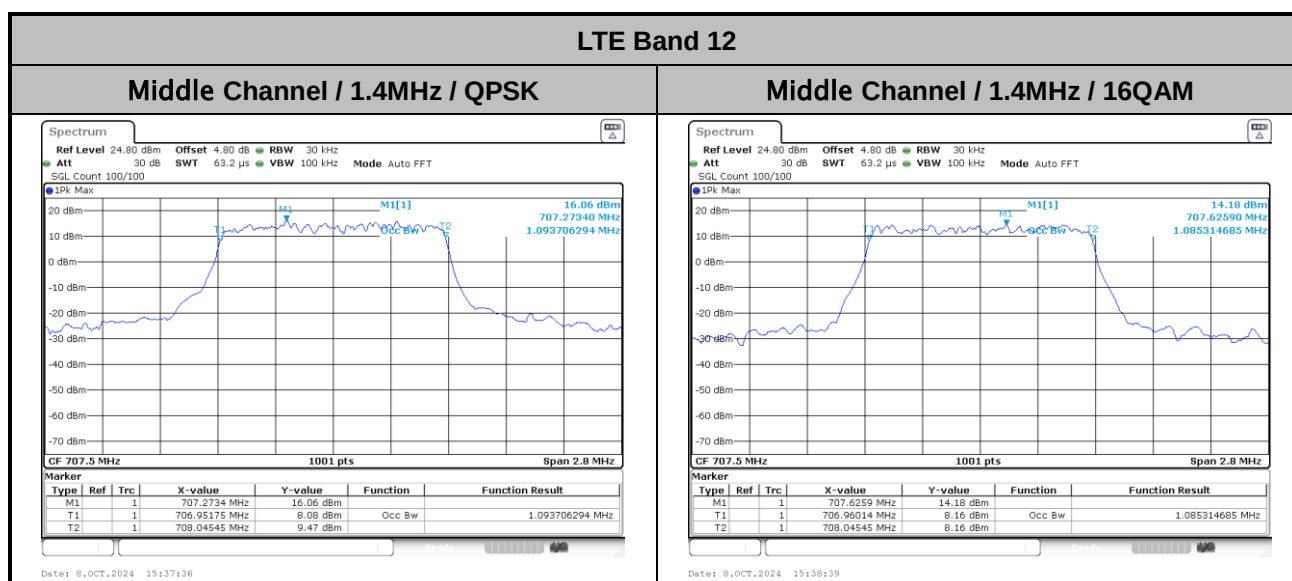


Date: 8.OCT.2024 15:34:22



Occupied Bandwidth

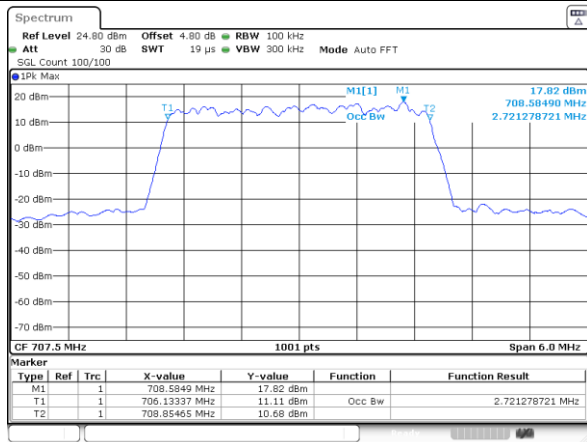
Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.09
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.72	2.73
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	8.95



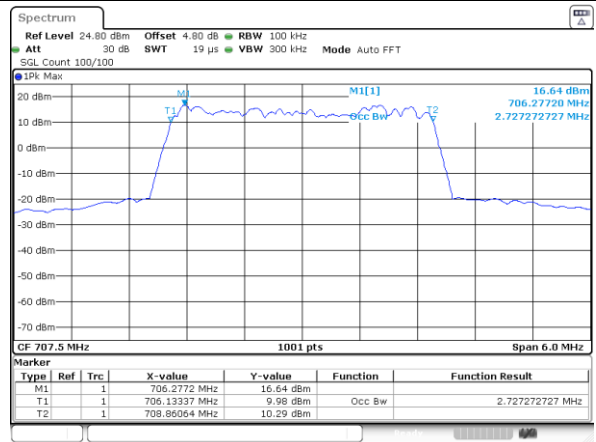


LTE Band 12

Middle Channel / 3MHz / QPSK

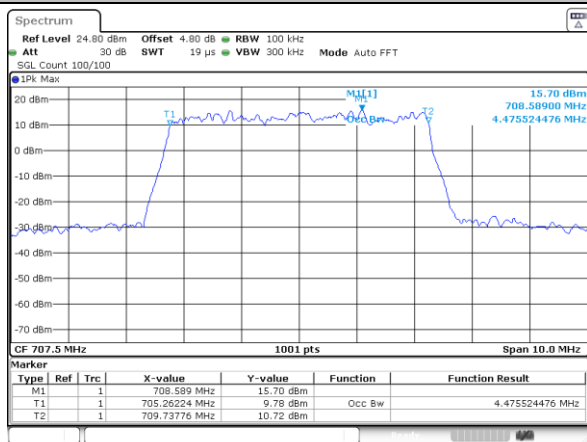


Middle Channel / 3MHz / 16QAM

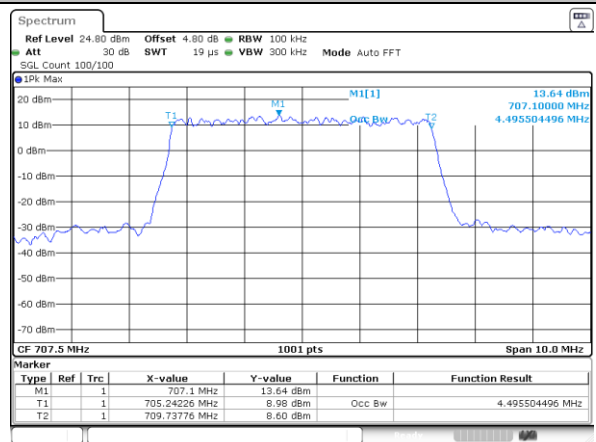


LTE Band 12

Middle Channel / 5MHz / QPSK

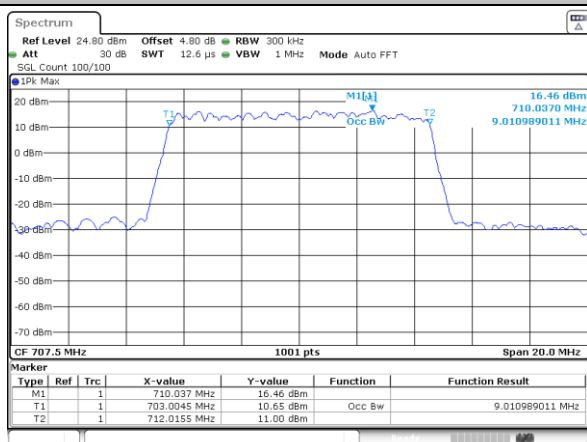


Middle Channel / 5MHz / 16QAM

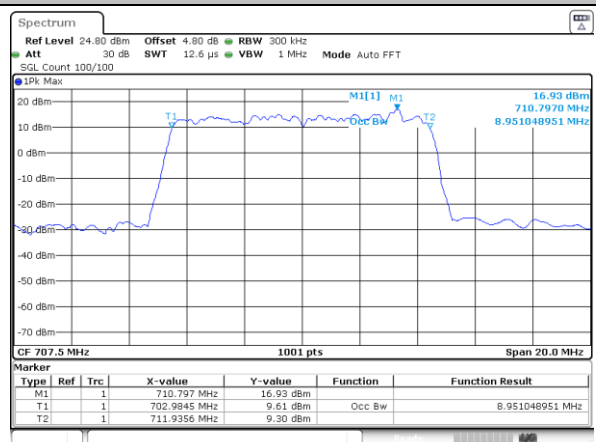


LTE Band 12

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

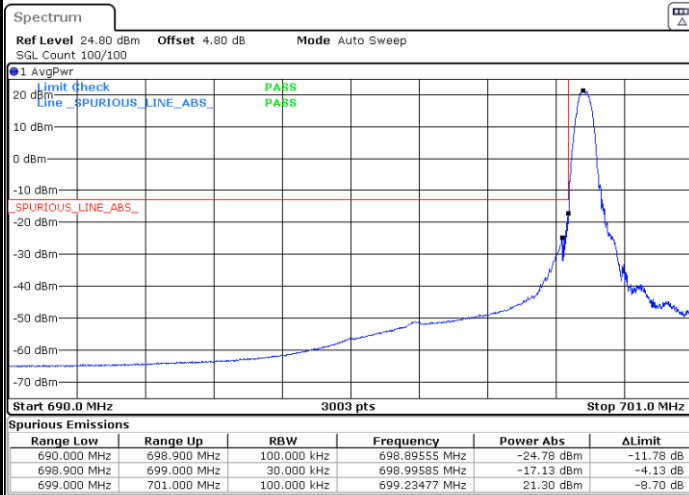




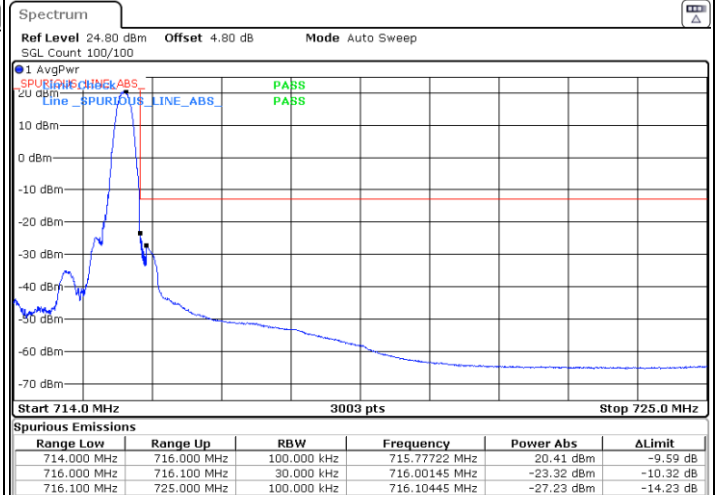
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

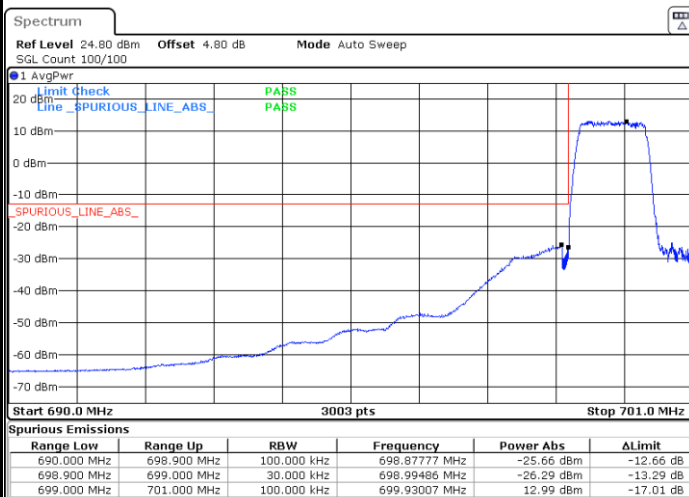
Lowest Band Edge / 1RB



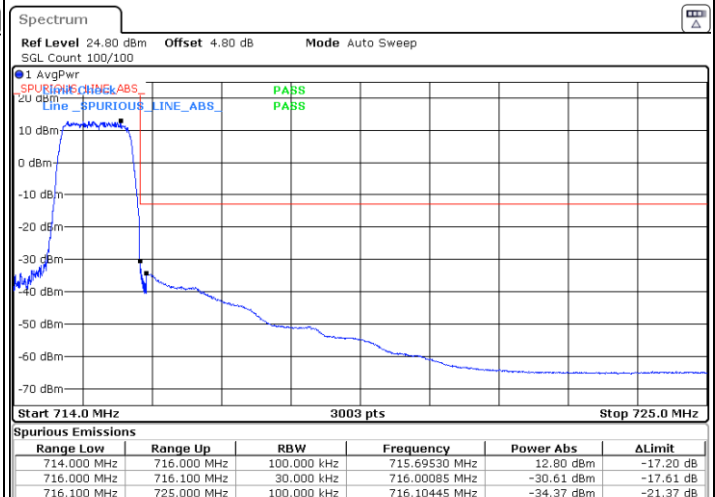
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



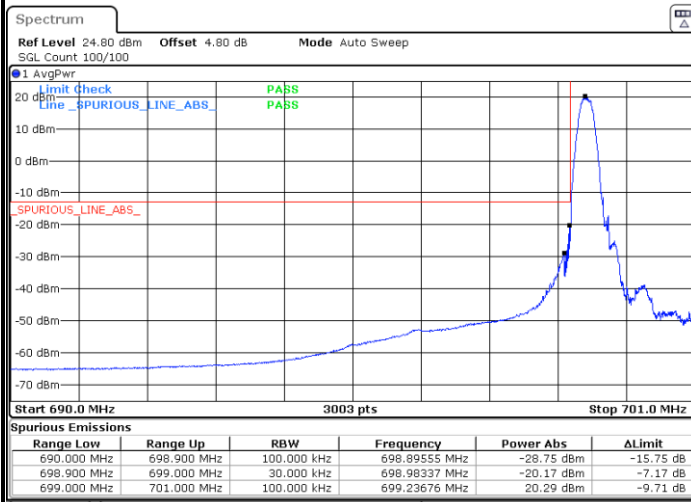
Highest Band Edge / Full RB



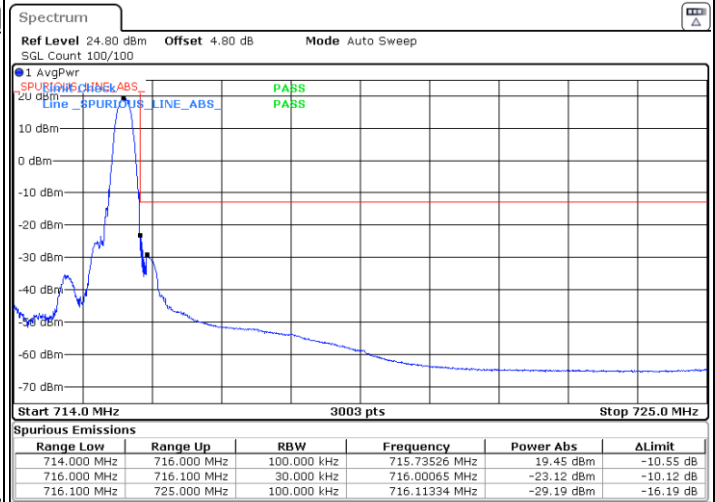


LTE Band 12 / 1.4MHz / 16QAM

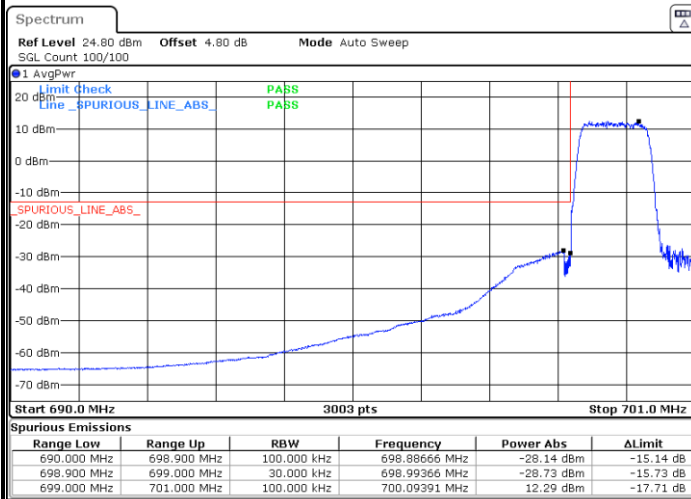
Lowest Band Edge / 1 RB



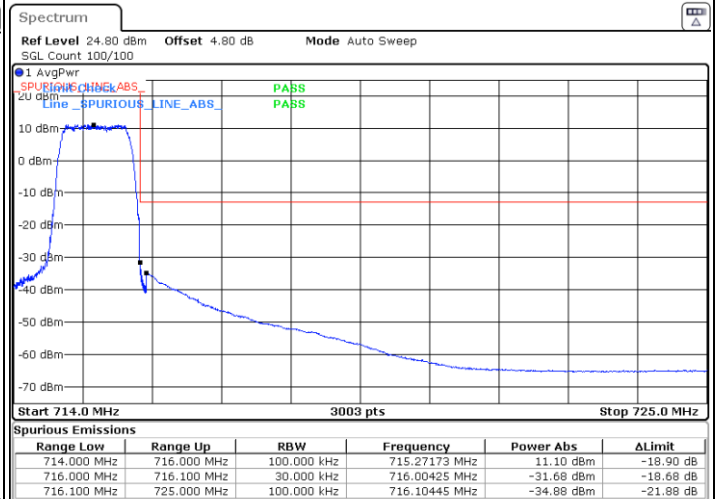
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



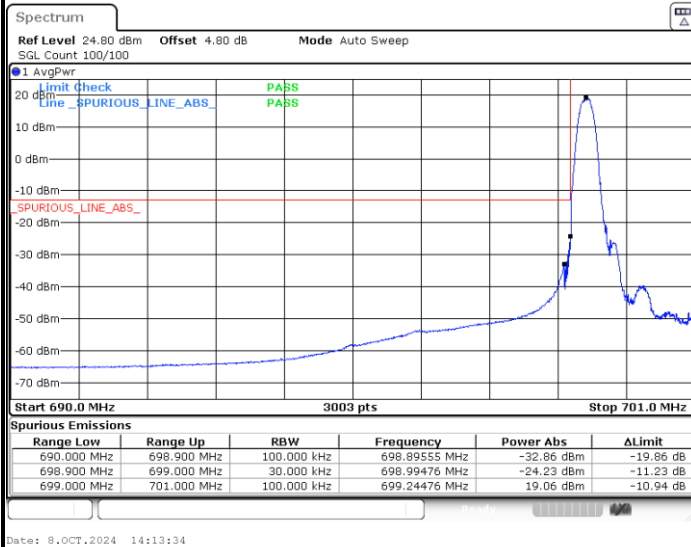
Highest Band Edge / Full RB



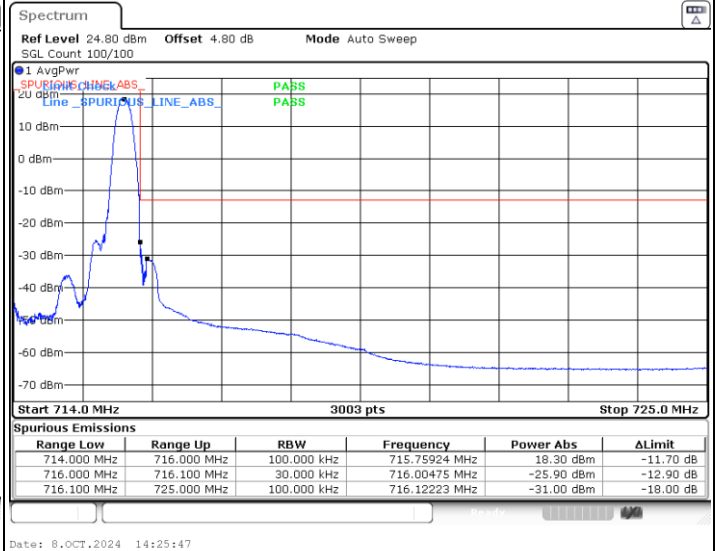


LTE Band 12 / 1.4MHz / 64QAM

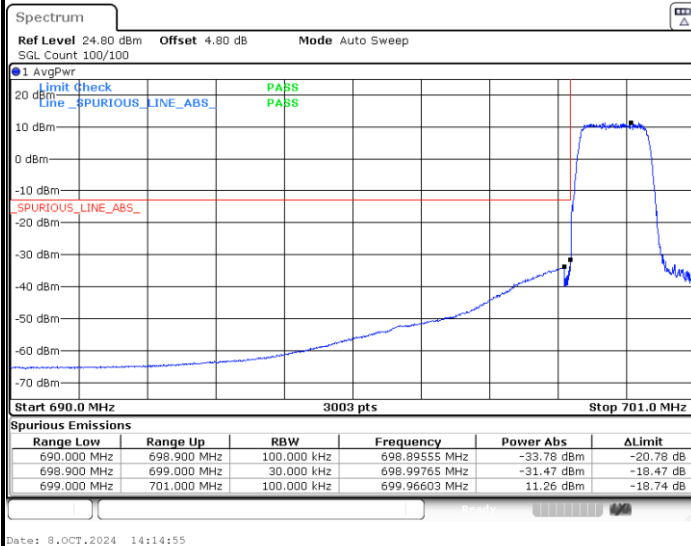
Lowest Band Edge / 1 RB



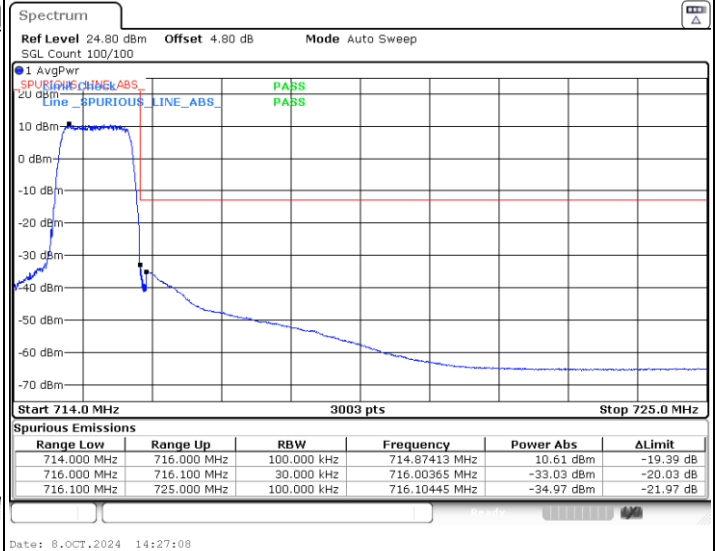
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



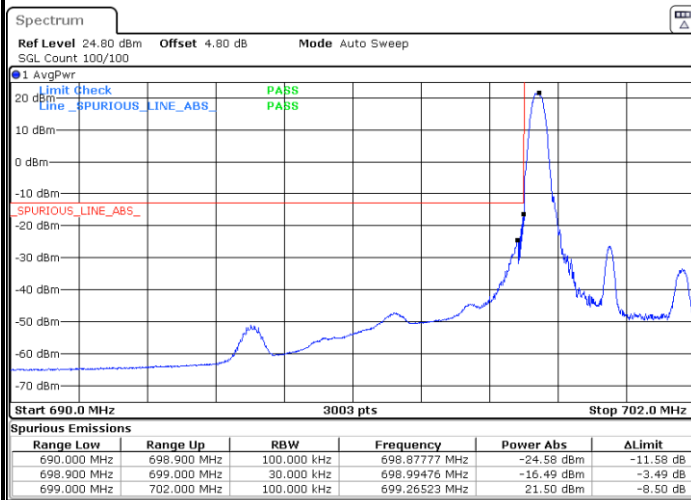
Highest Band Edge / Full RB



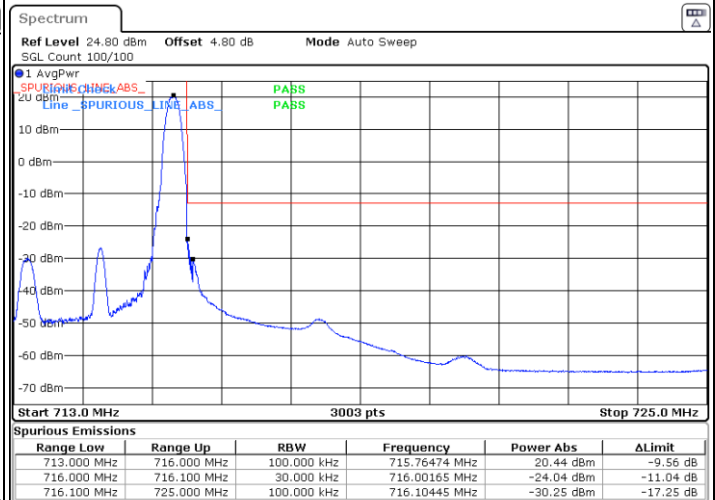


LTE Band 12 / 3MHz / QPSK

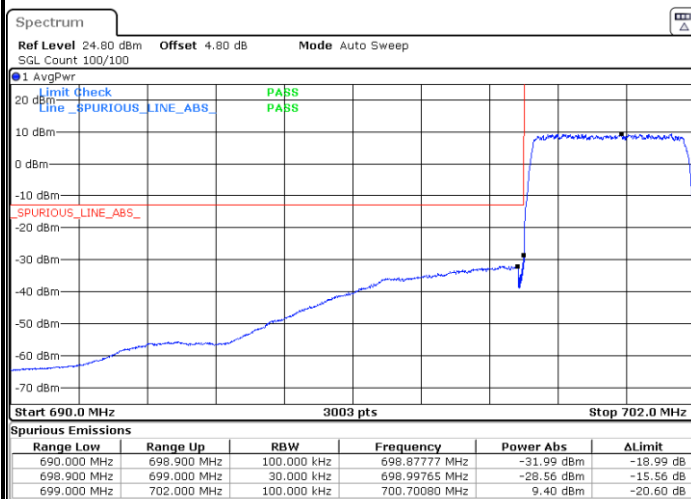
Lowest Band Edge / 1RB



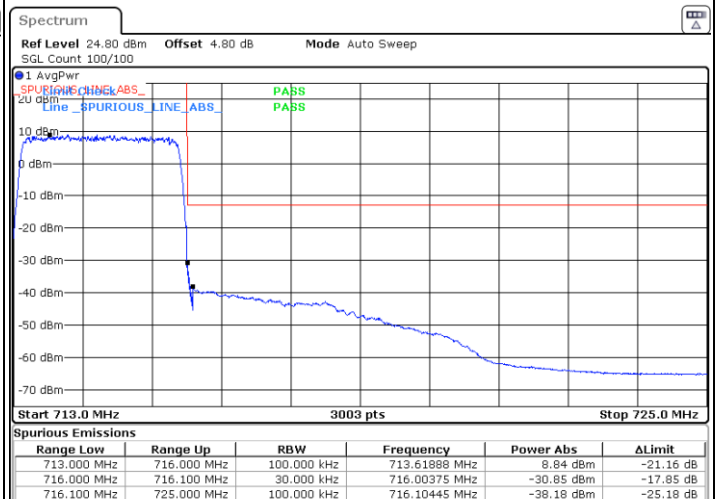
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



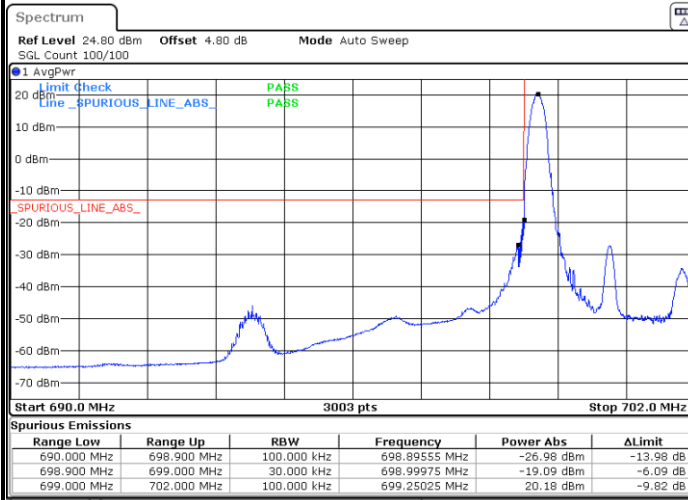
Highest Band Edge / Full RB



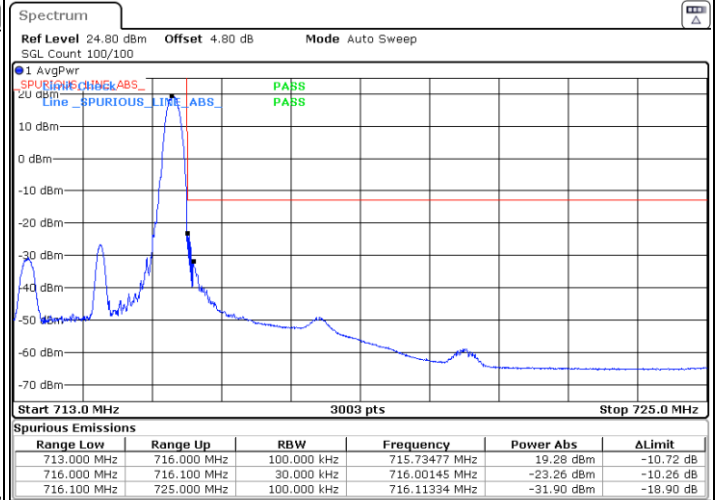


LTE Band 12 / 3MHz / 16QAM

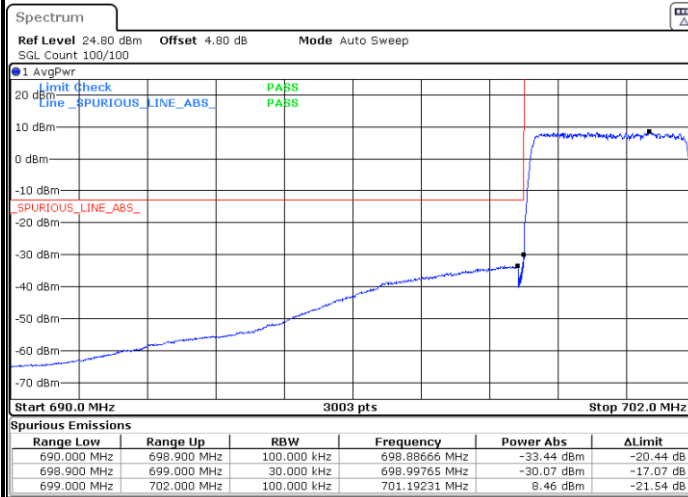
Lowest Band Edge / 1 RB



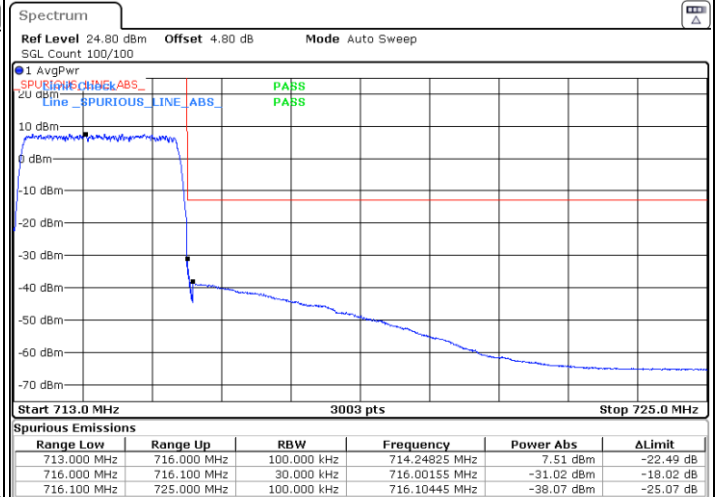
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



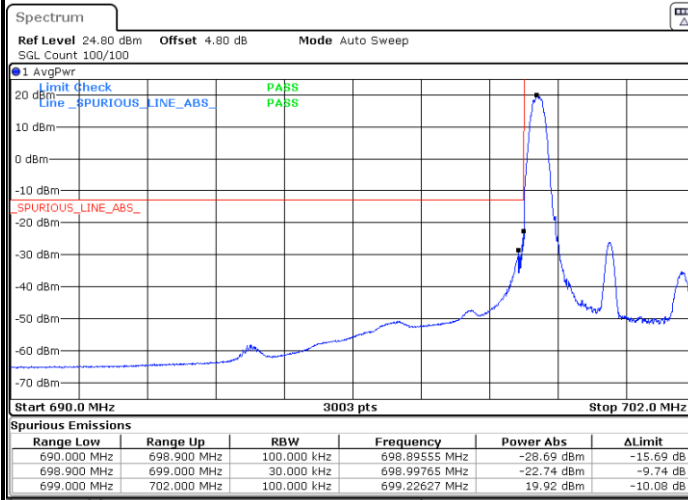
Highest Band Edge / Full RB



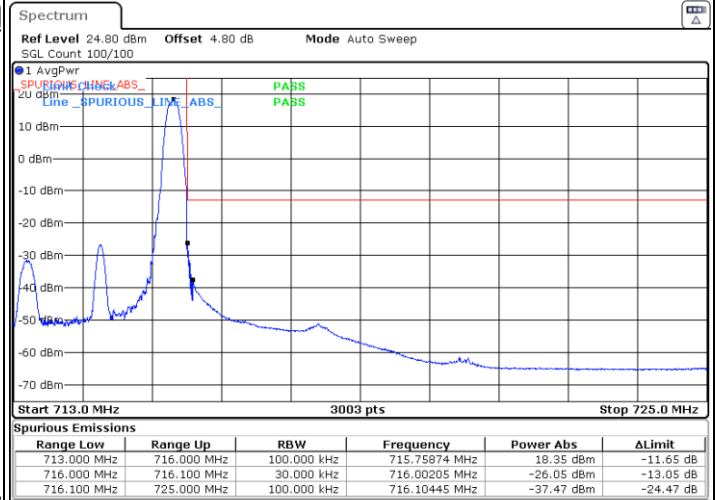


LTE Band 12 / 3MHz / 64QAM

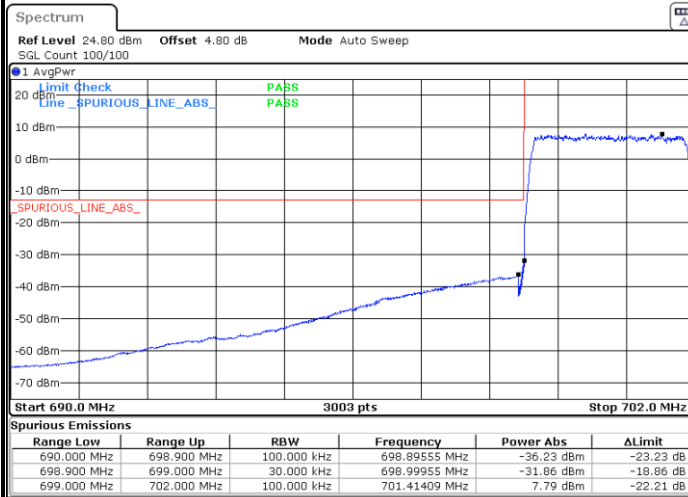
Lowest Band Edge / 1 RB



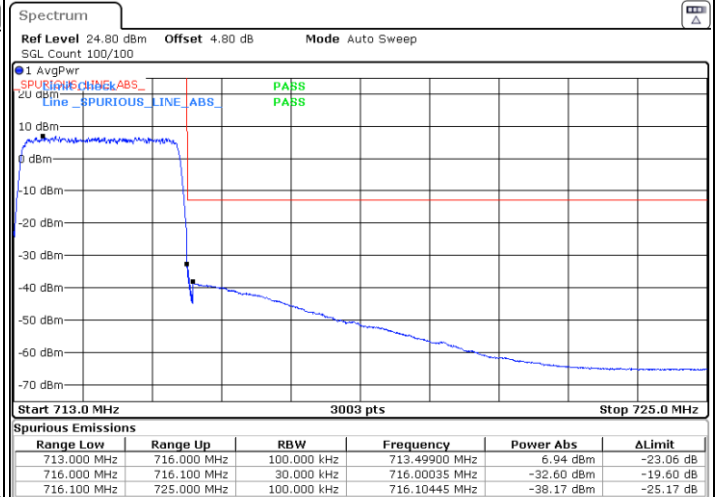
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



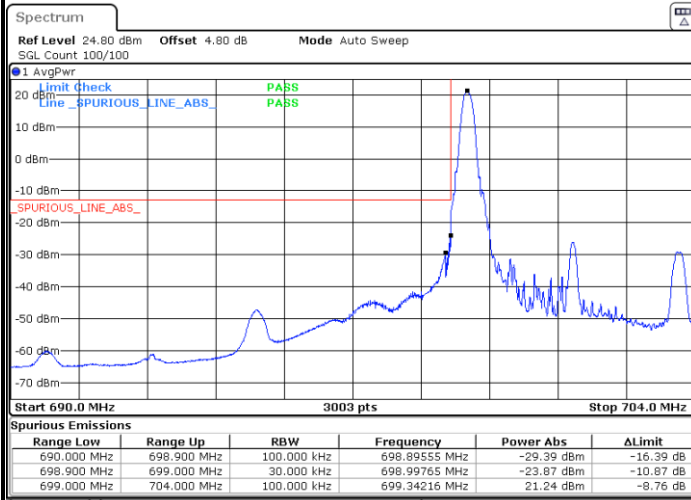
Highest Band Edge / Full RB



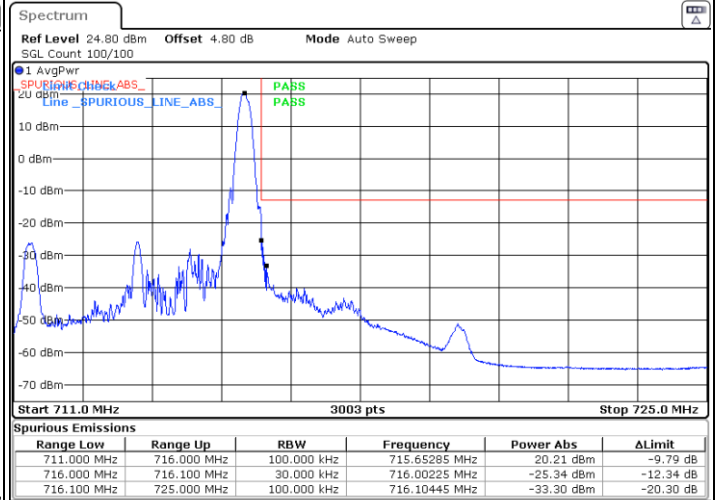


LTE Band 12 / 5MHz / QPSK

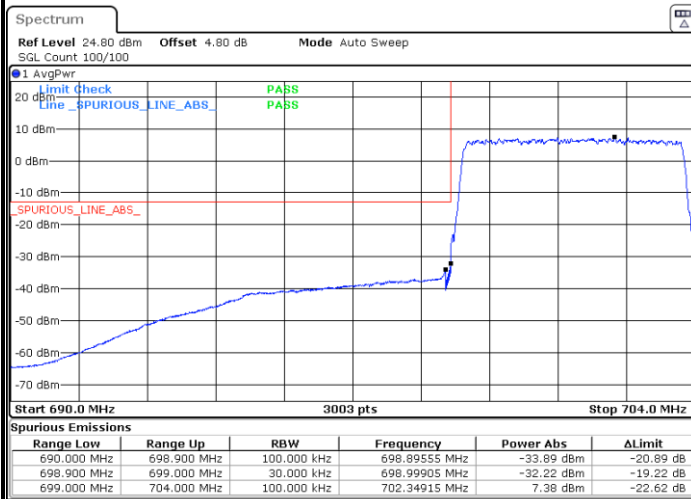
Lowest Band Edge / 1 RB



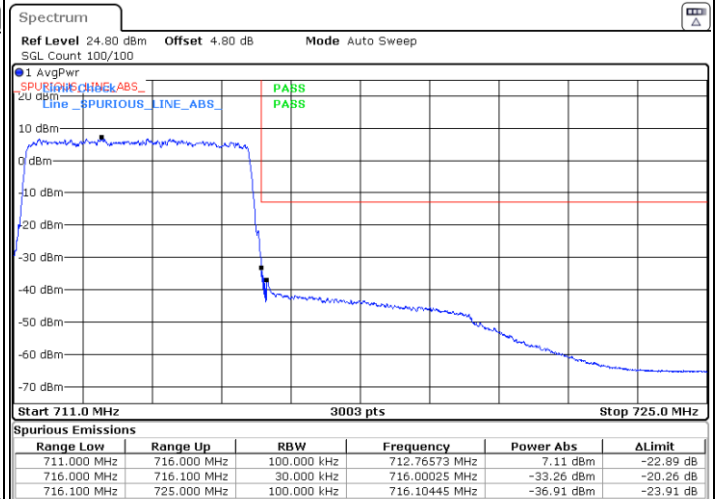
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



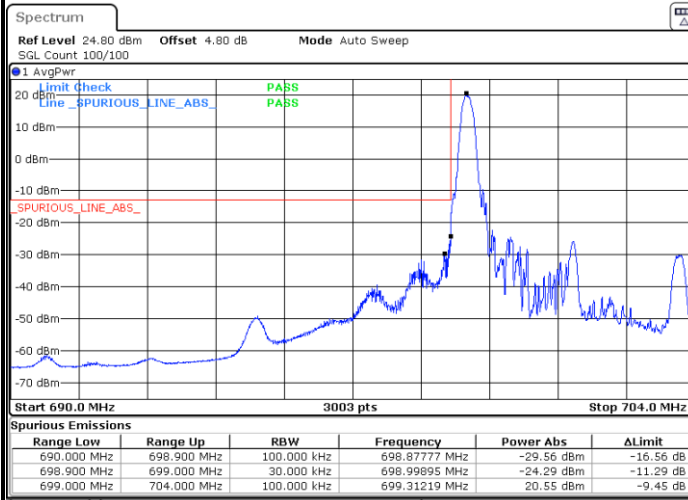
Highest Band Edge / Full RB



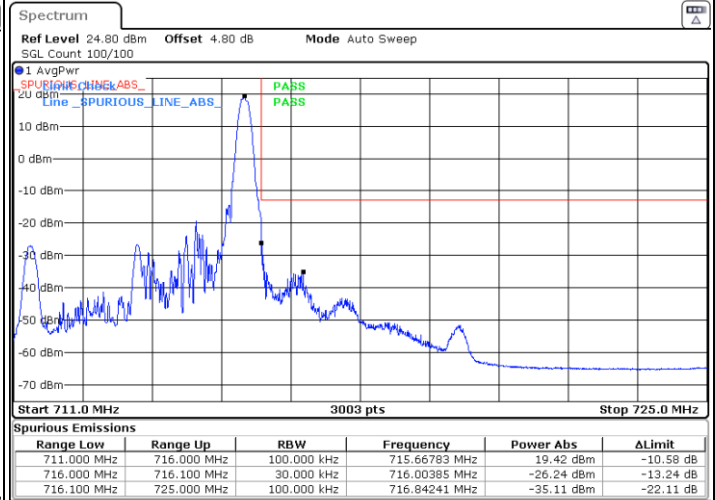


LTE Band 12 / 5MHz / 16QAM

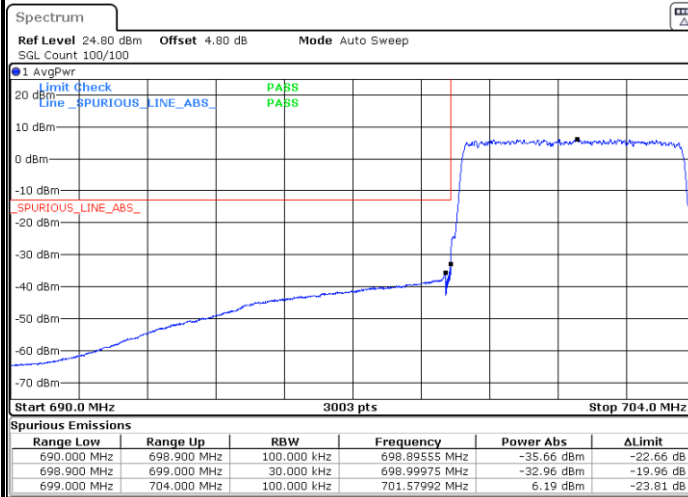
Lowest Band Edge / 1RB



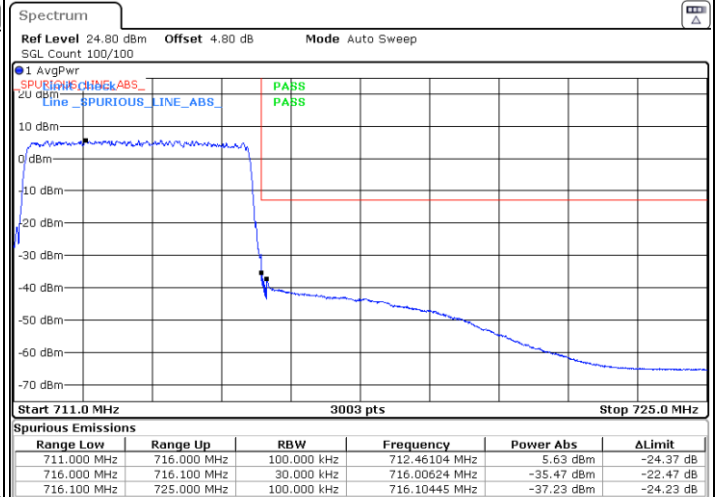
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



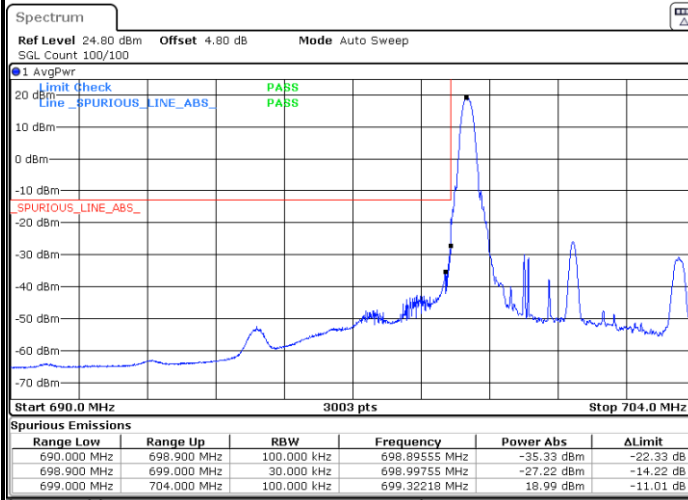
Highest Band Edge / Full RB



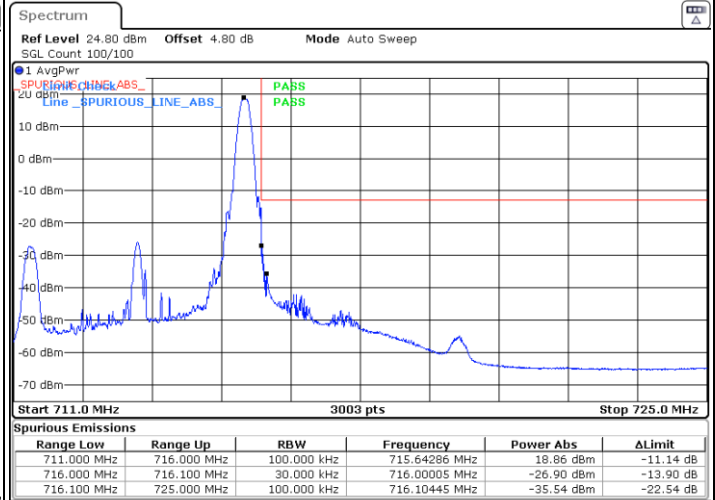


LTE Band 12 / 5MHz / 64QAM

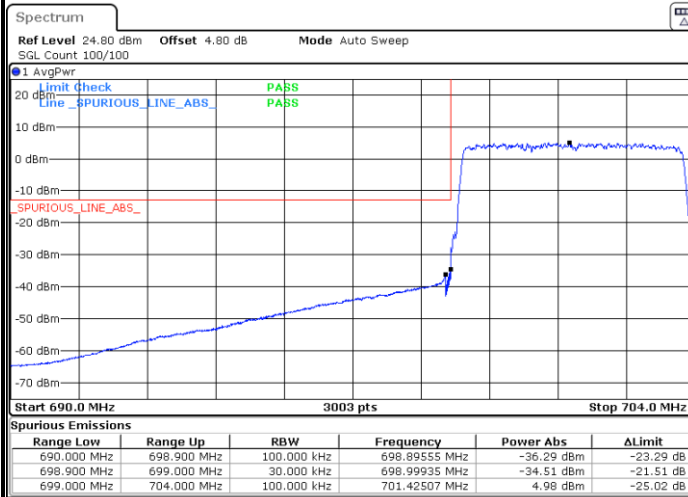
Lowest Band Edge / 1RB



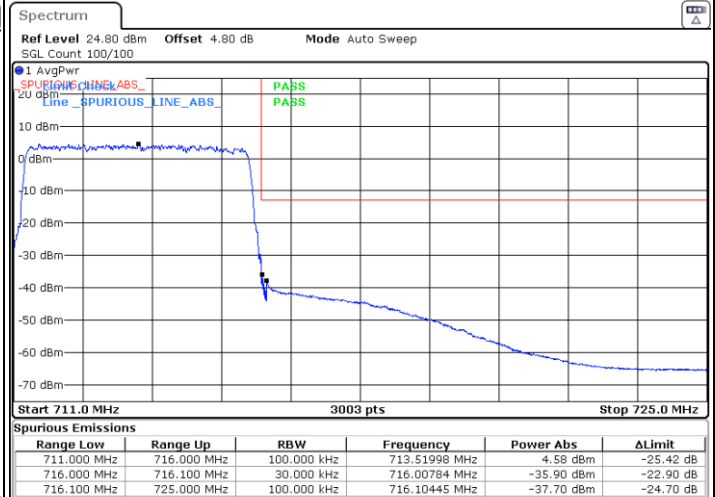
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



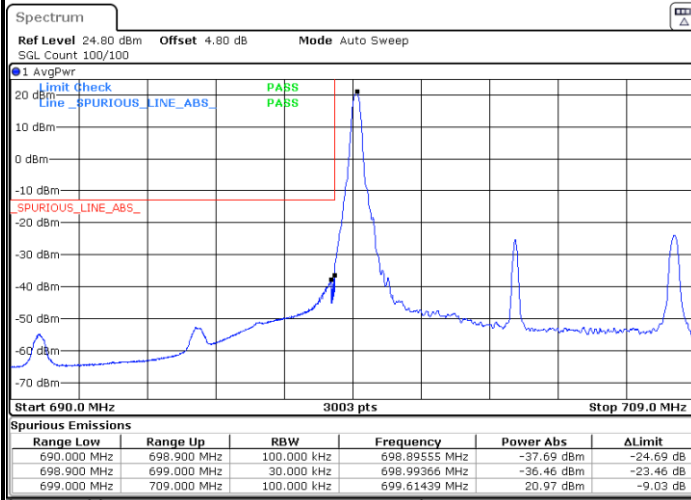
Highest Band Edge / Full RB



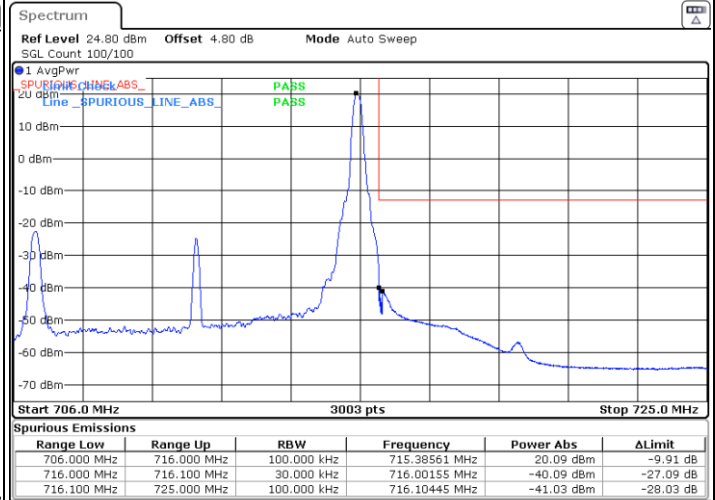


LTE Band 12 / 10MHz / QPSK

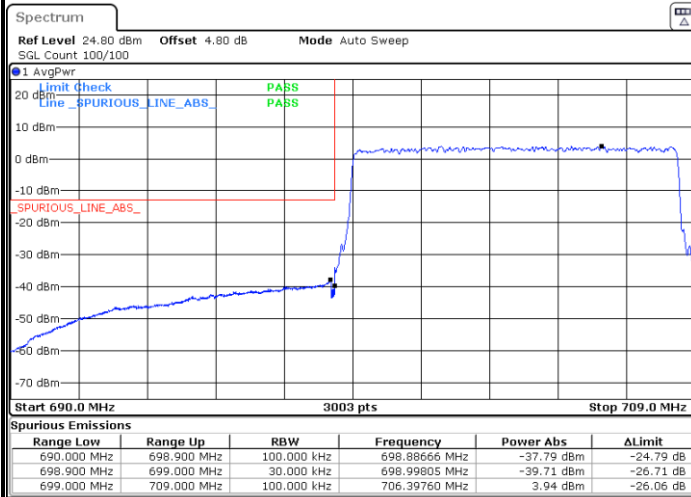
Lowest Band Edge / 1 RB



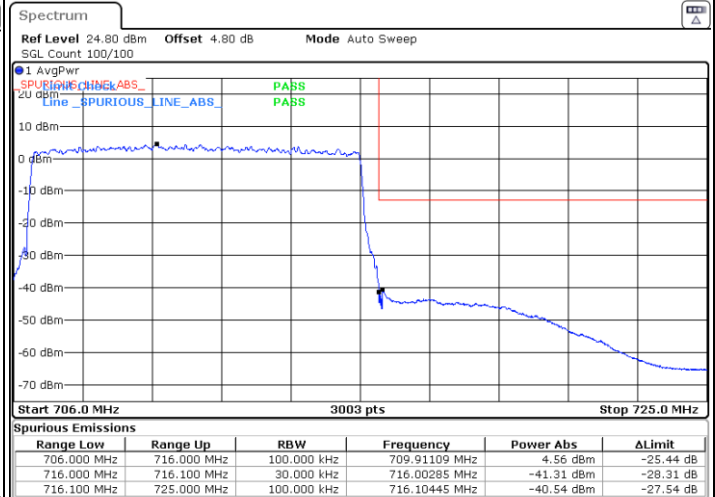
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



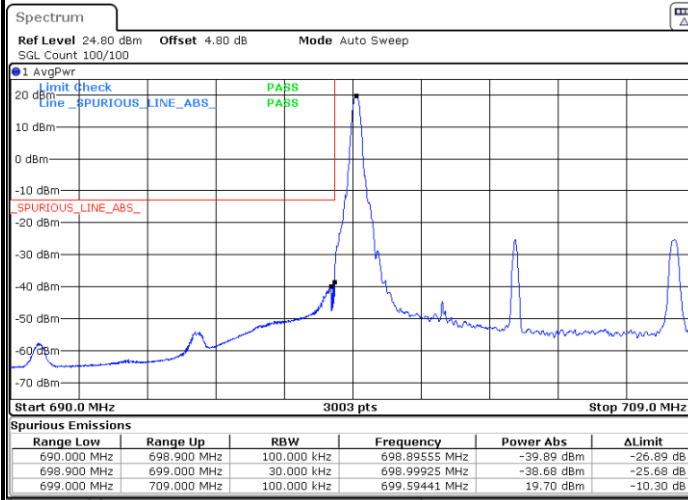
Highest Band Edge / Full RB



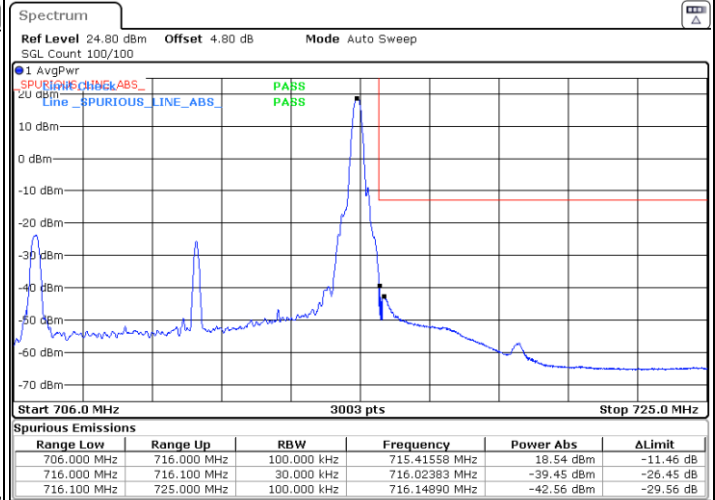


LTE Band 12 / 10MHz / 16QAM

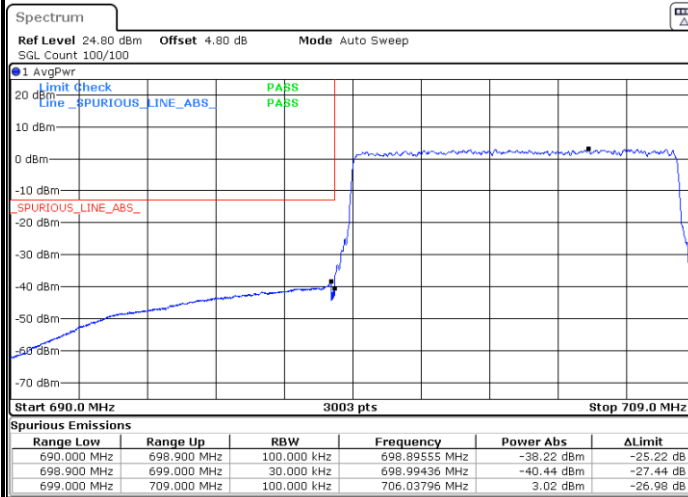
Lowest Band Edge / 1 RB



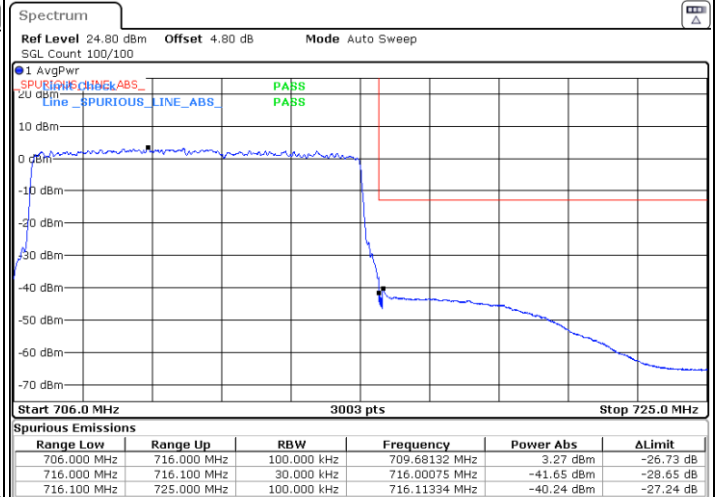
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



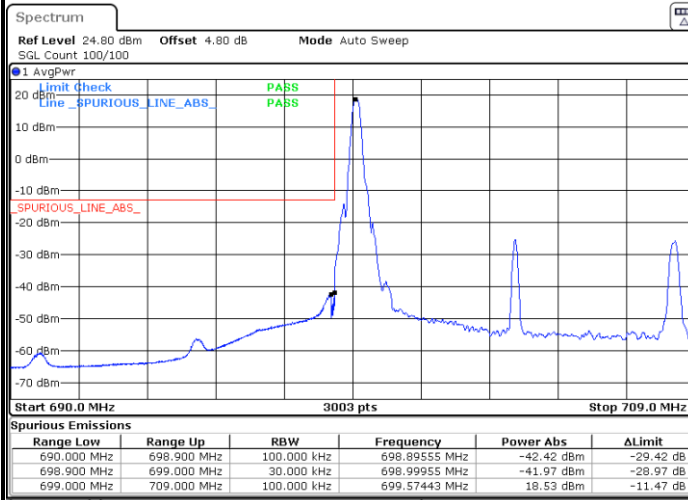
Highest Band Edge / Full RB



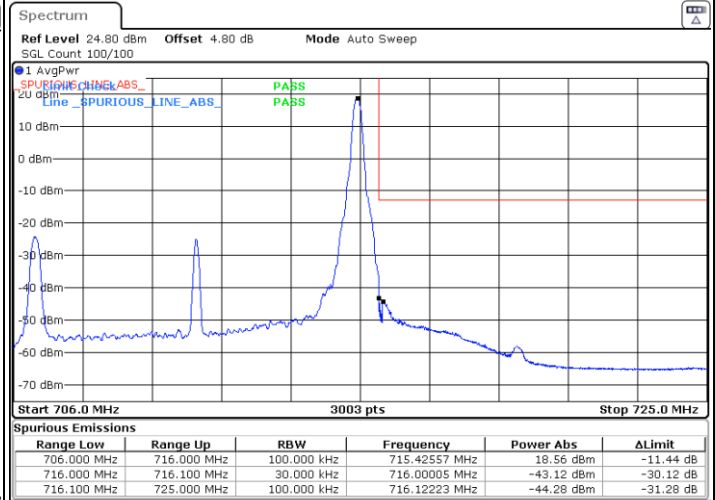


LTE Band 12 / 10MHz / 64QAM

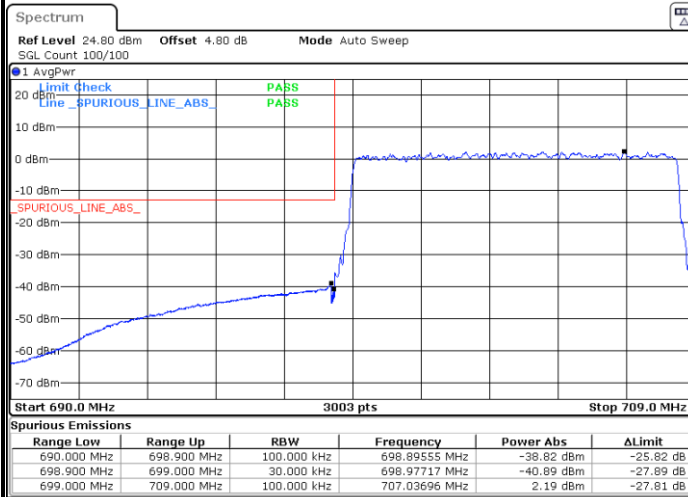
Lowest Band Edge / 1 RB



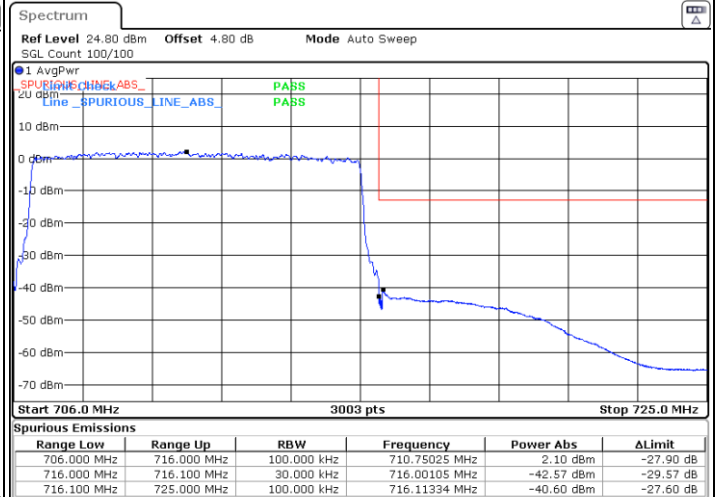
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

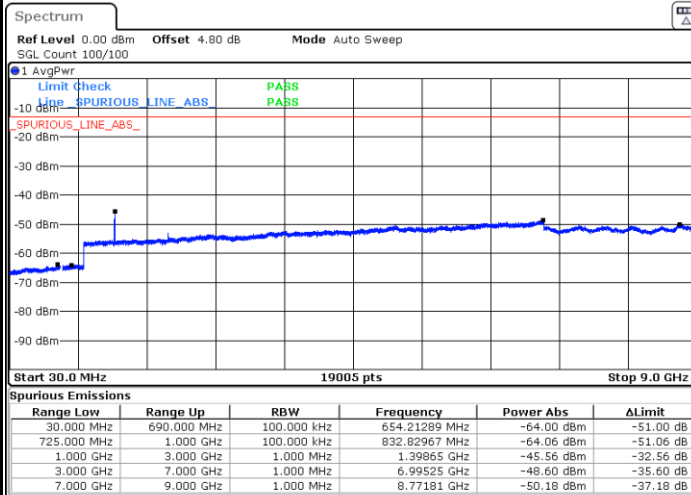




Conducted Spurious Emission

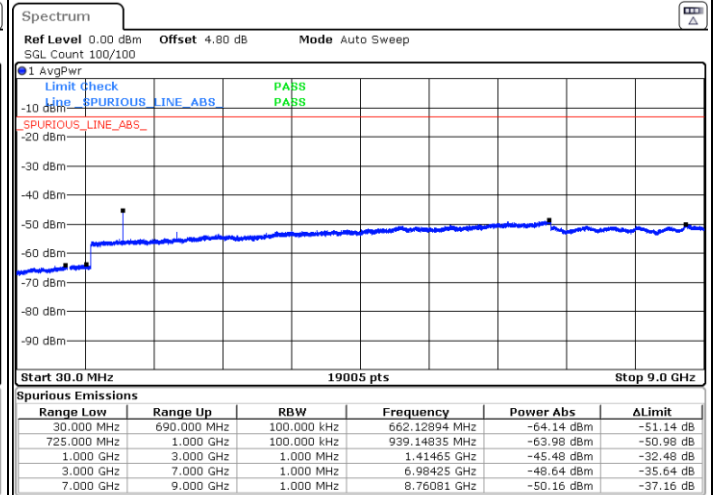
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



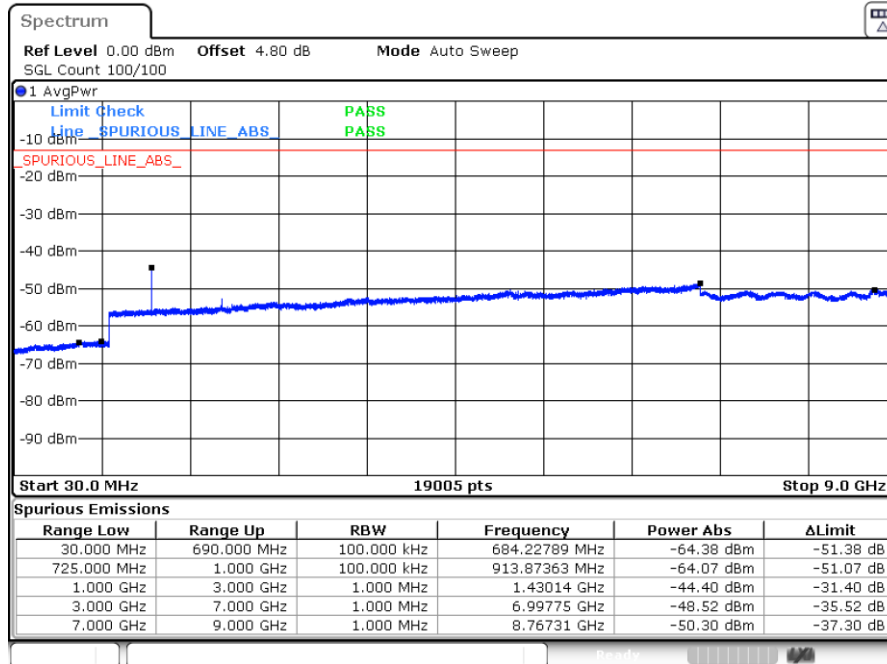
Date: 8.OCT.2024 14:09:31

Middle Channel / QPSK



Date: 8.OCT.2024 14:19:41

Highest Channel / QPSK

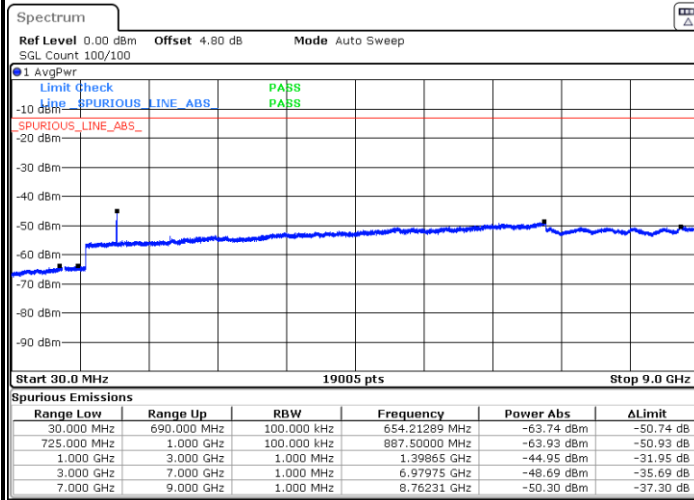


Date: 8.OCT.2024 14:21:45



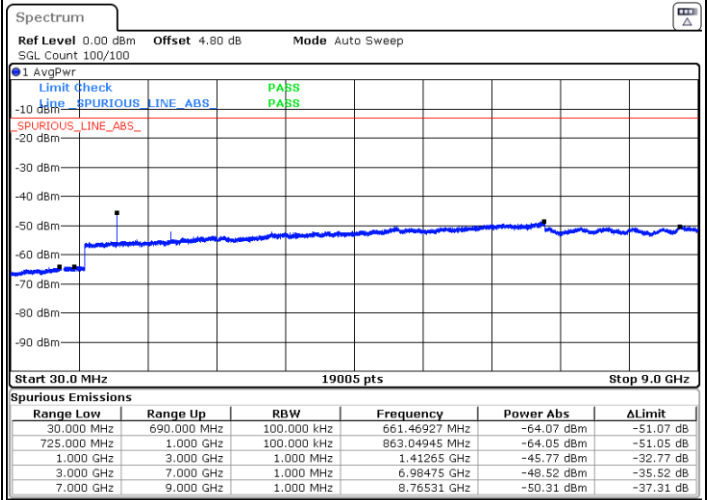
LTE Band 12 / 3MHz

Lowest Channel / QPSK



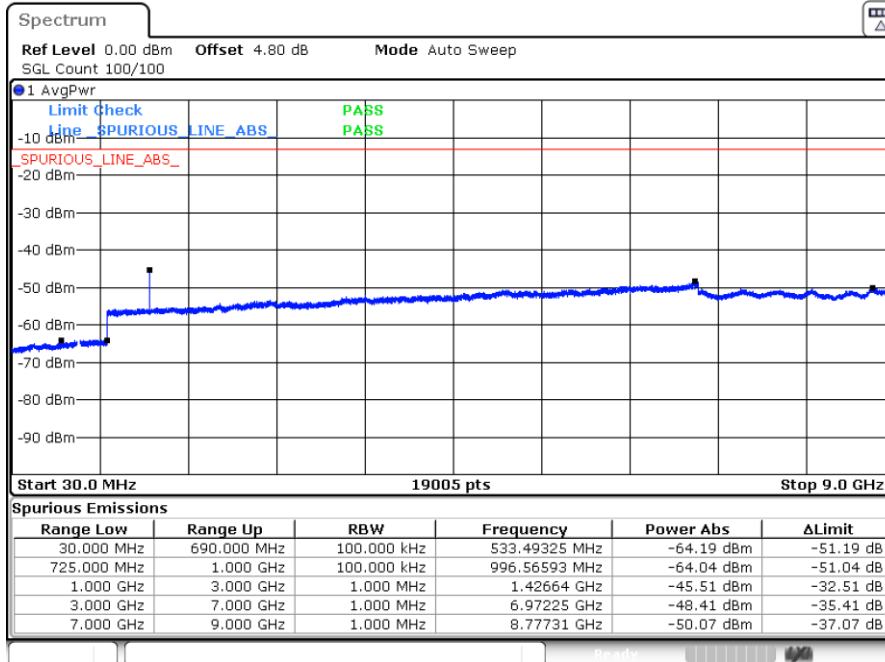
Date: 8.OCT.2024 14:31:53

Middle Channel / QPSK



Date: 8.OCT.2024 14:42:02

Highest Channel / QPSK

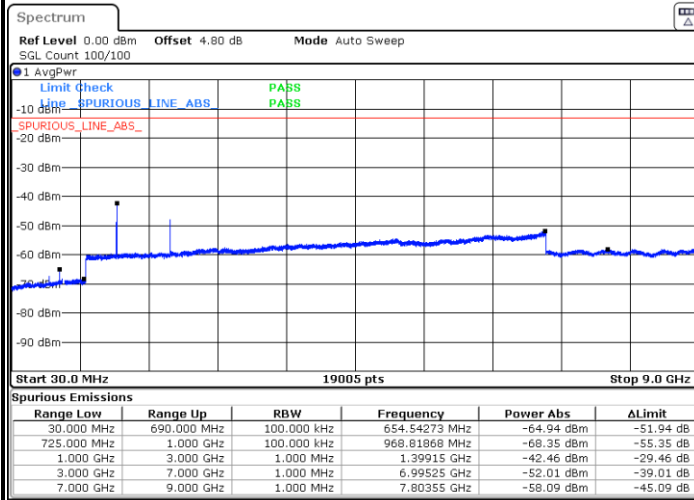


Date: 8.OCT.2024 14:44:05



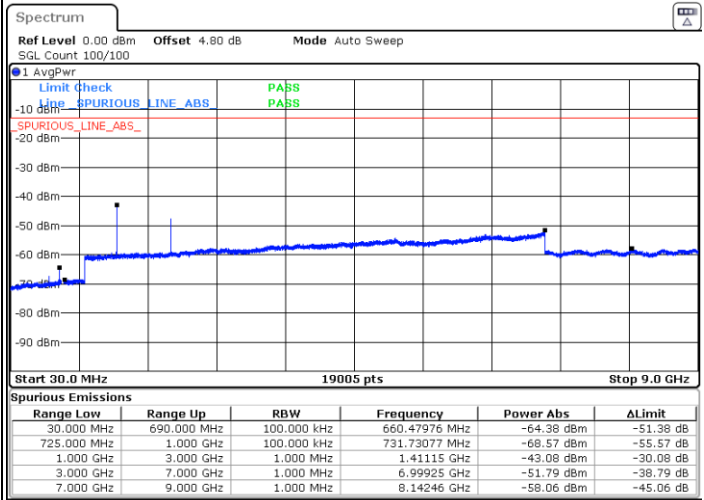
LTE Band 12 / 5MHz

Lowest Channel / QPSK



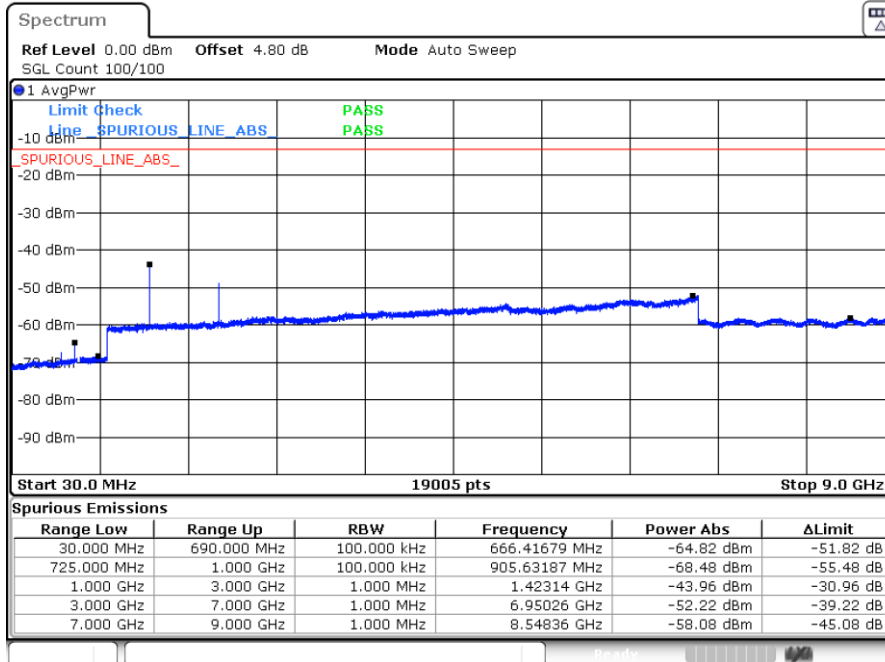
Date: 8.OCT.2024 14:54:14

Middle Channel / QPSK



Date: 8.OCT.2024 15:04:24

Highest Channel / QPSK

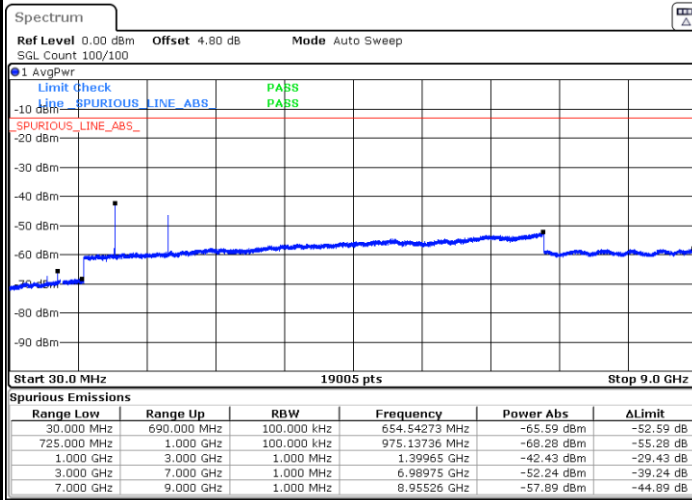


Date: 8.OCT.2024 15:06:27



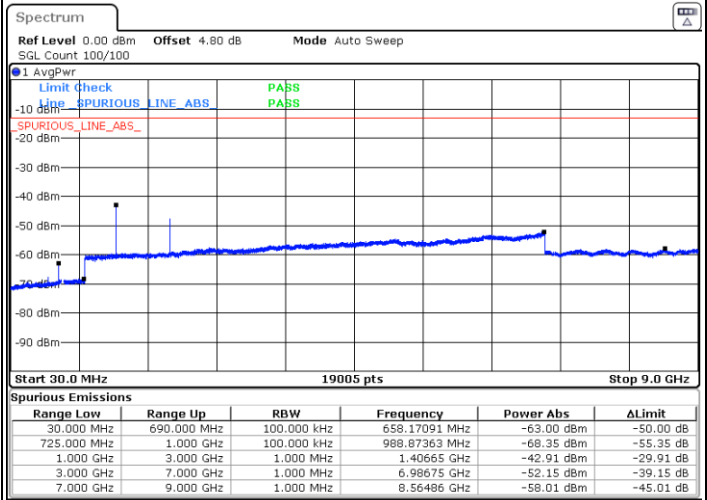
LTE Band 12 / 10MHz

Lowest Channel / QPSK



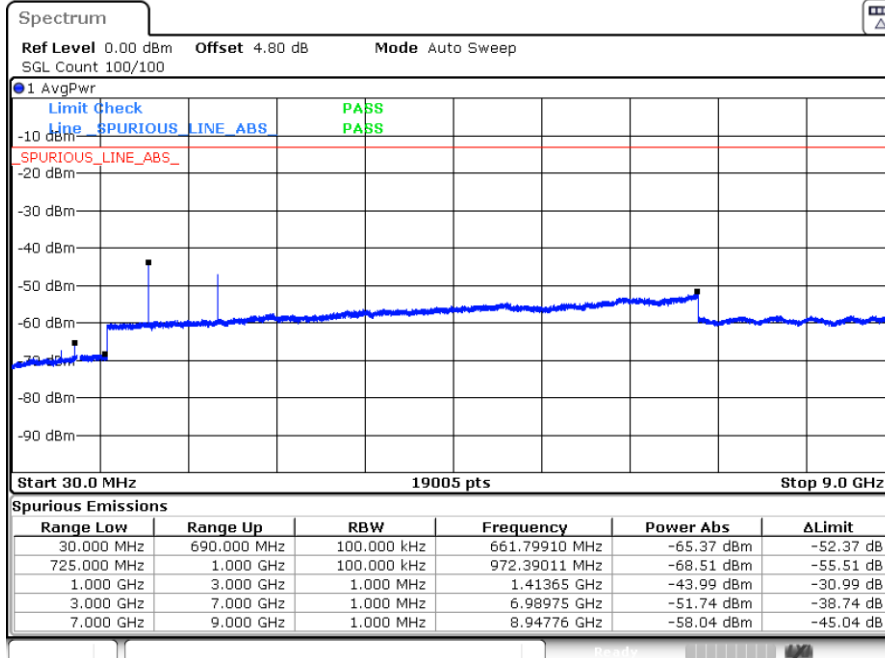
Date: 8.OCT.2024 15:16:08

Middle Channel / QPSK



Date: 8.OCT.2024 15:24:07

Highest Channel / QPSK



Date: 8.OCT.2024 15:26:12

**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	0.0038	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

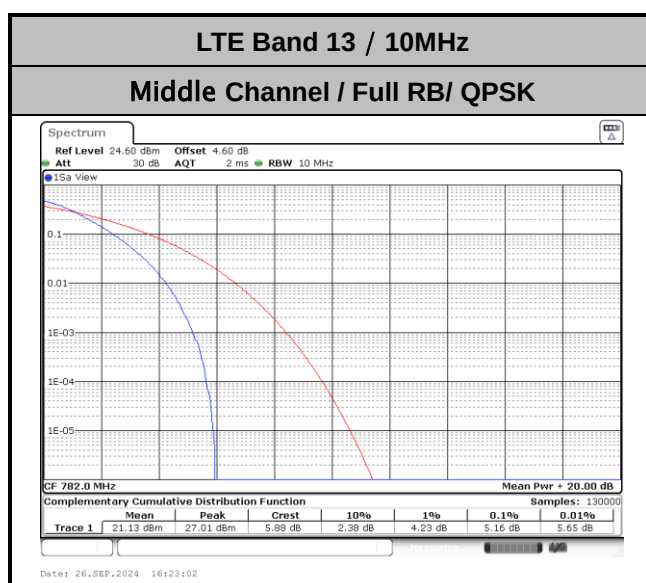
1. Normal Voltage =7.2 V. ; Battery End Point (BEP) =6.4 V. ; Maximum Voltage =8.33 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

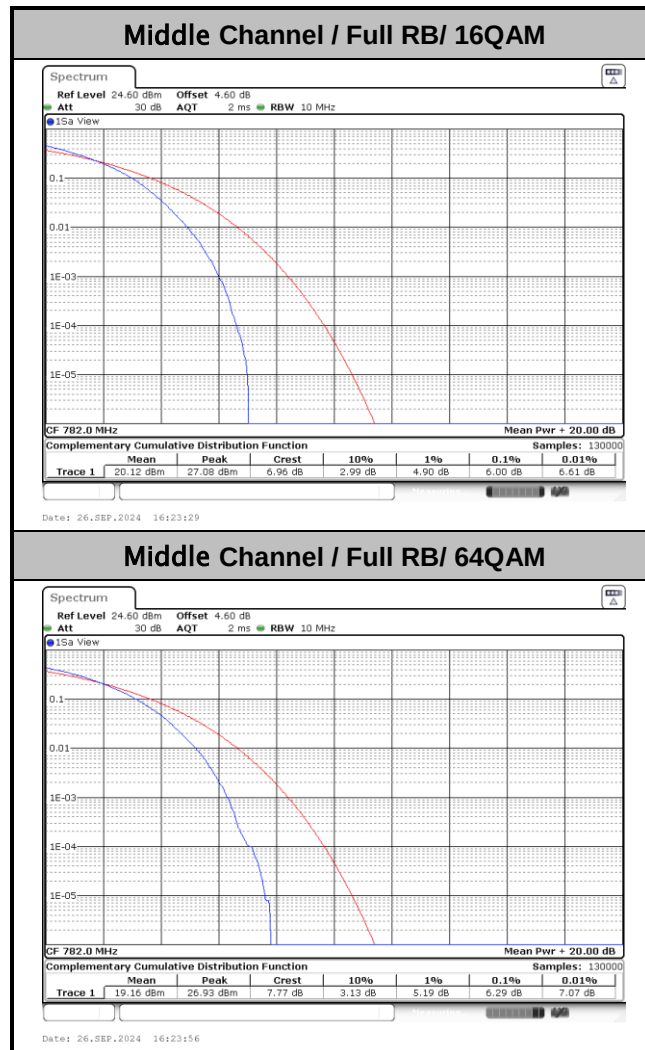


LTE Band 13

Peak-to-Average Ratio

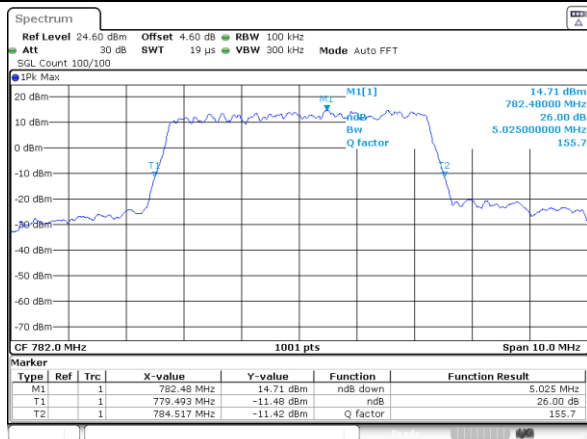
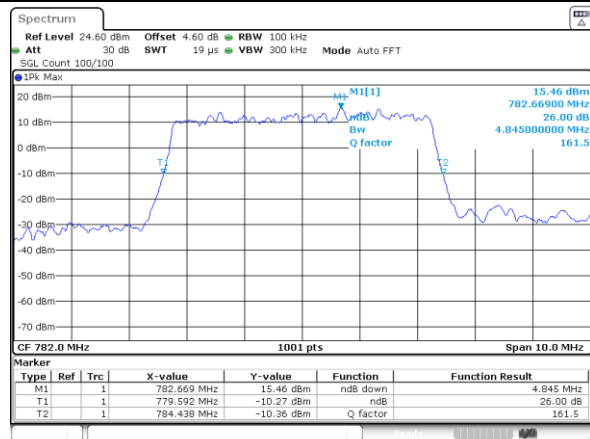
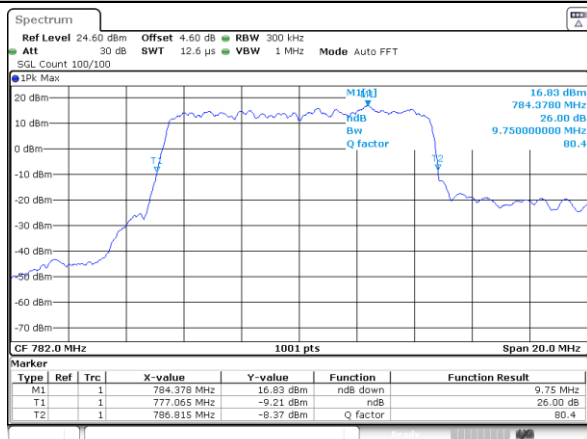
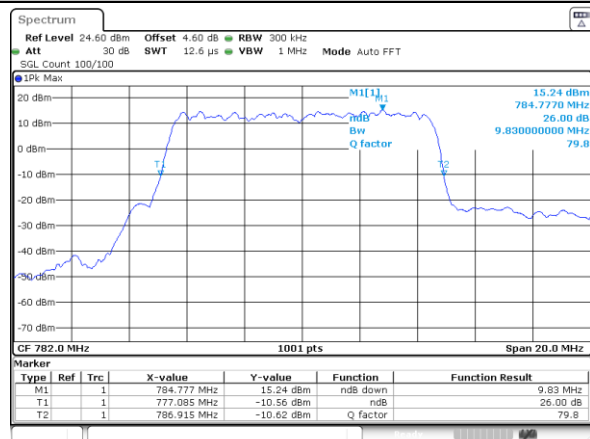
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.16	6.0	6.29	PASS





**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.03	4.85
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.75	9.83

LTE Band 13**Middle Channel / 5MHz / QPSK****Middle Channel / 5MHz / 16QAM****LTE Band 13****Middle Channel / 10MHz / QPSK****Middle Channel / 10MHz / 16QAM**

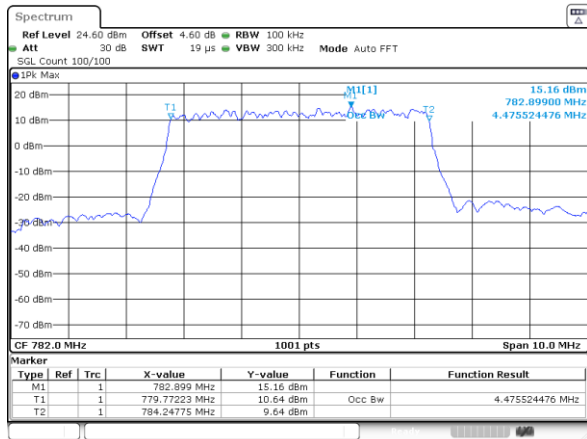


Occupied Bandwidth

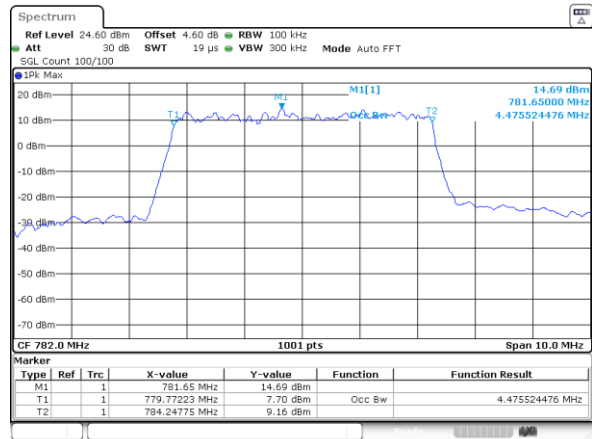
Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.48
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	9.03

LTE Band 13

Middle Channel / 5MHz / QPSK

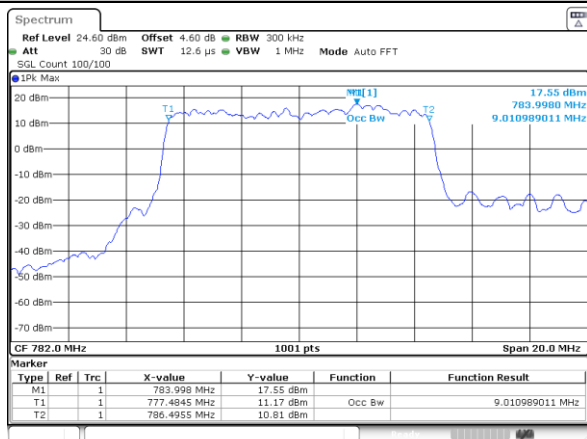


Middle Channel / 5MHz / 16QAM

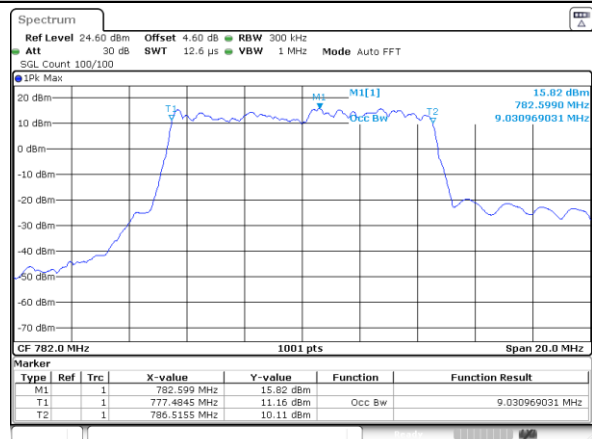


LTE Band 13

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

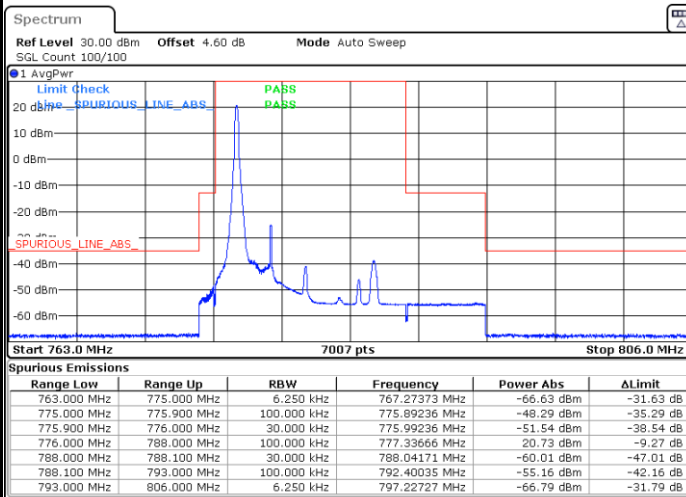




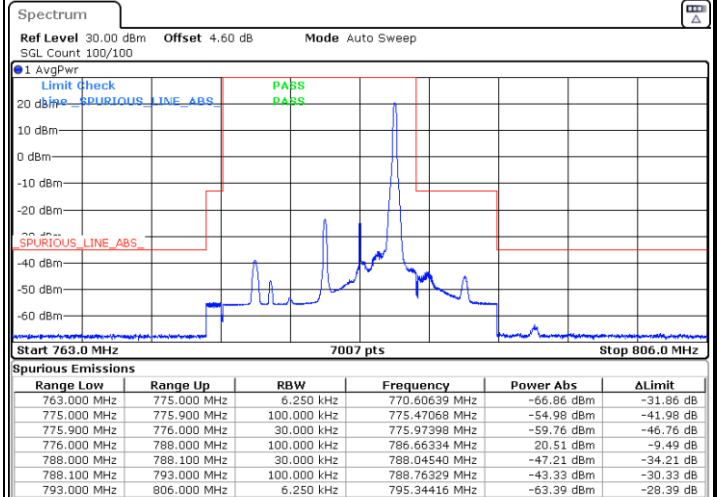
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

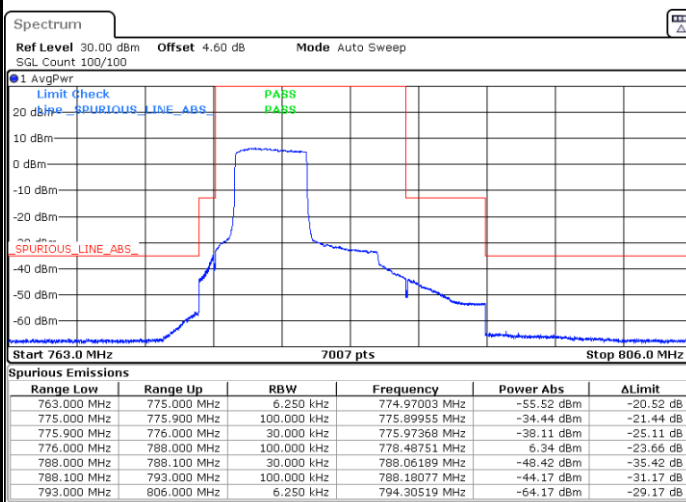
Lowest Band Edge / 1 RB



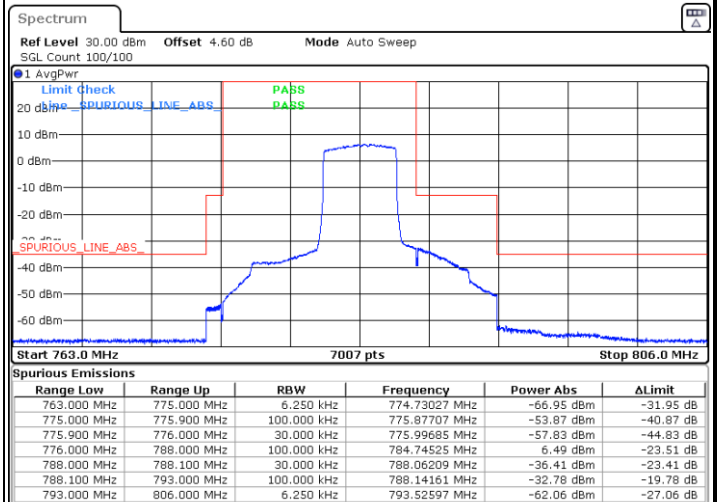
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



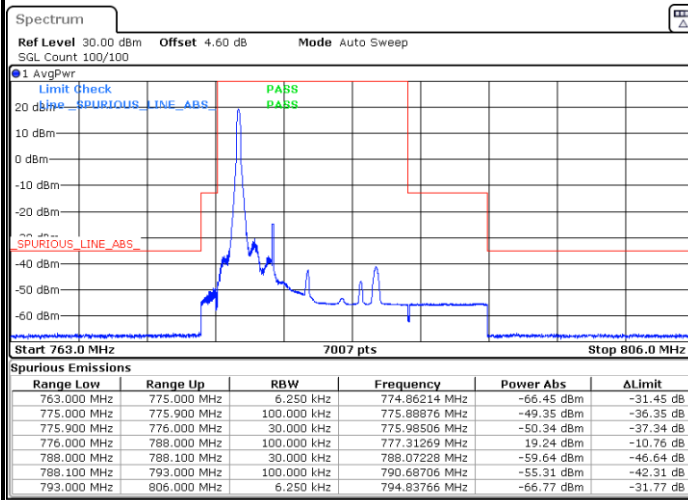
Highest Band Edge / Full RB





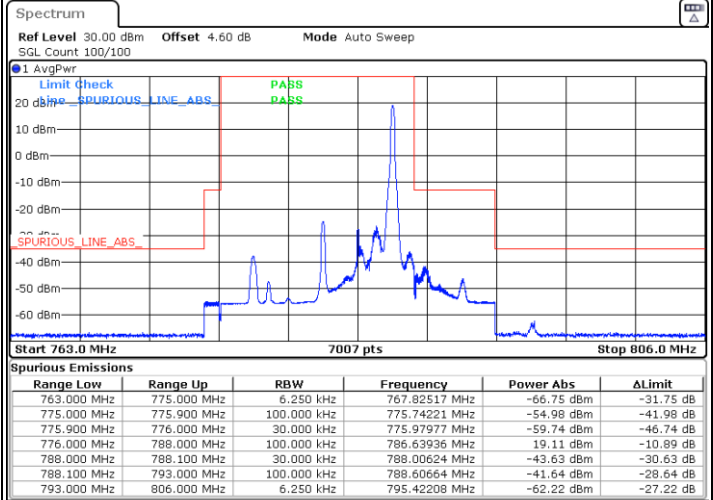
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



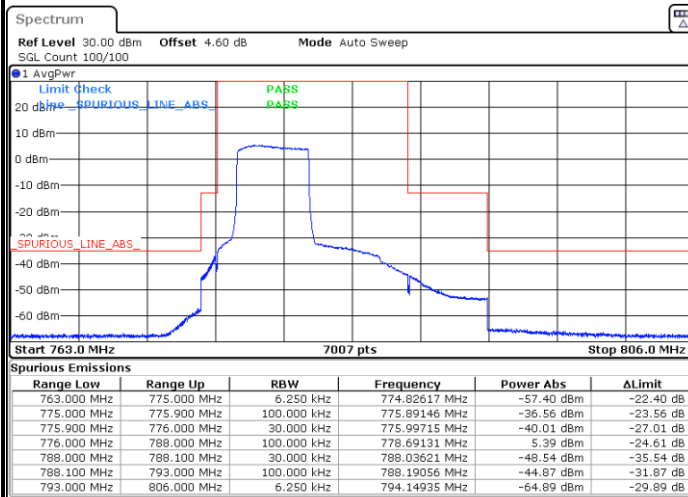
Date: 27.SEP.2024 15:12:52

Highest Band Edge / 1 RB



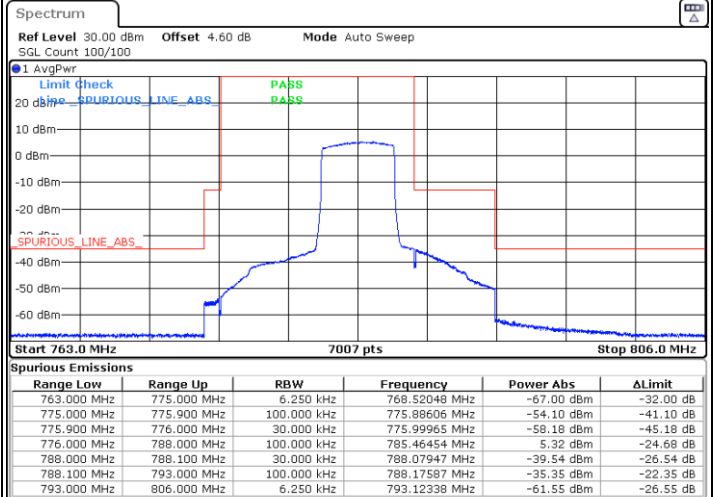
Date: 27.SEP.2024 15:21:32

Lowest Band Edge / Full RB



Date: 27.SEP.2024 15:17:12

Highest Band Edge / Full RB

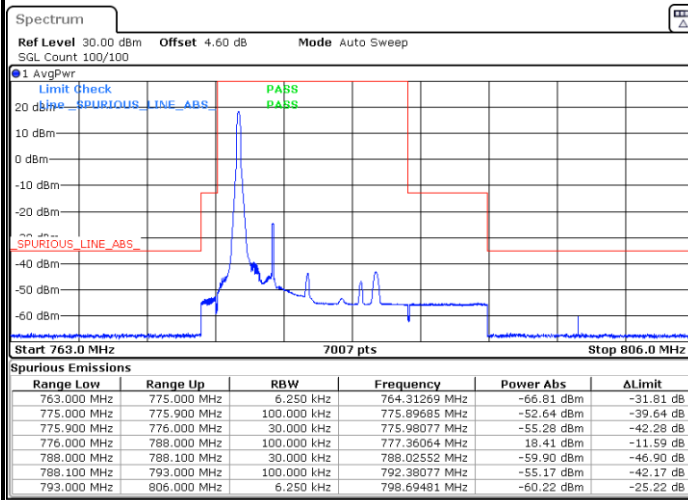


Date: 27.SEP.2024 15:25:51



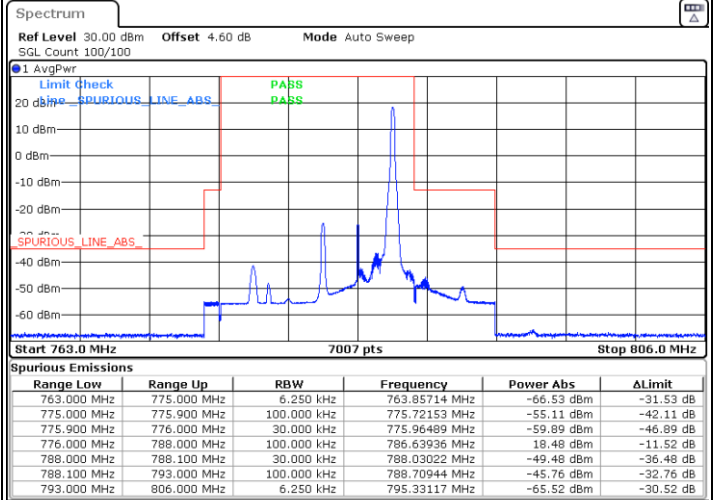
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



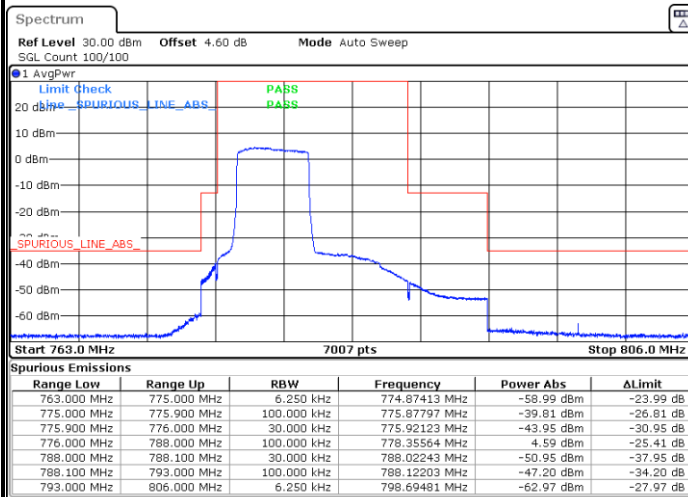
Date: 27.SEP.2024 15:14:19

Highest Band Edge / 1 RB



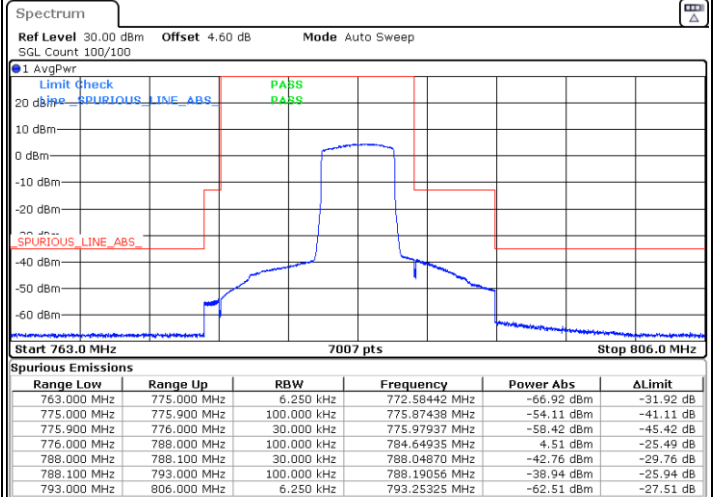
Date: 27.SEP.2024 15:22:58

Lowest Band Edge / Full RB



Date: 27.SEP.2024 15:18:39

Highest Band Edge / Full RB

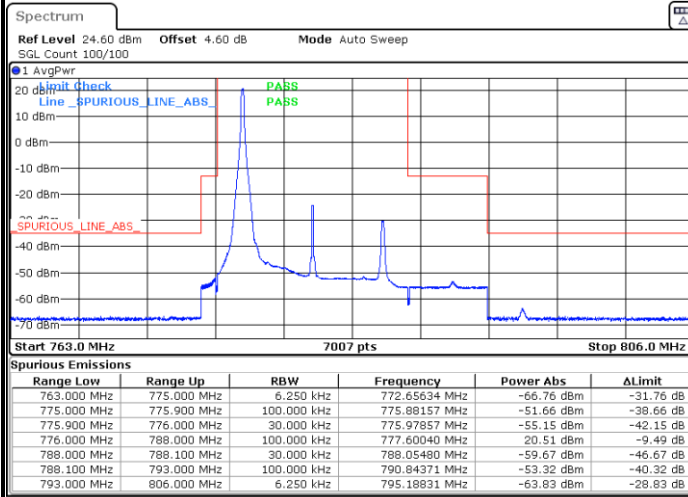


Date: 27.SEP.2024 15:27:18



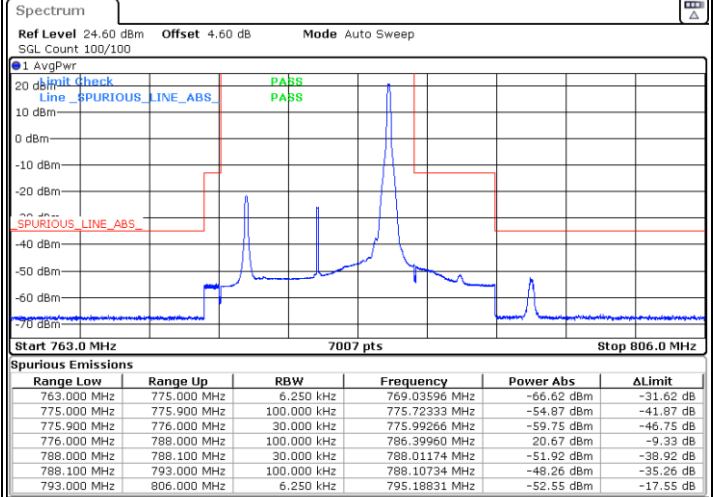
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



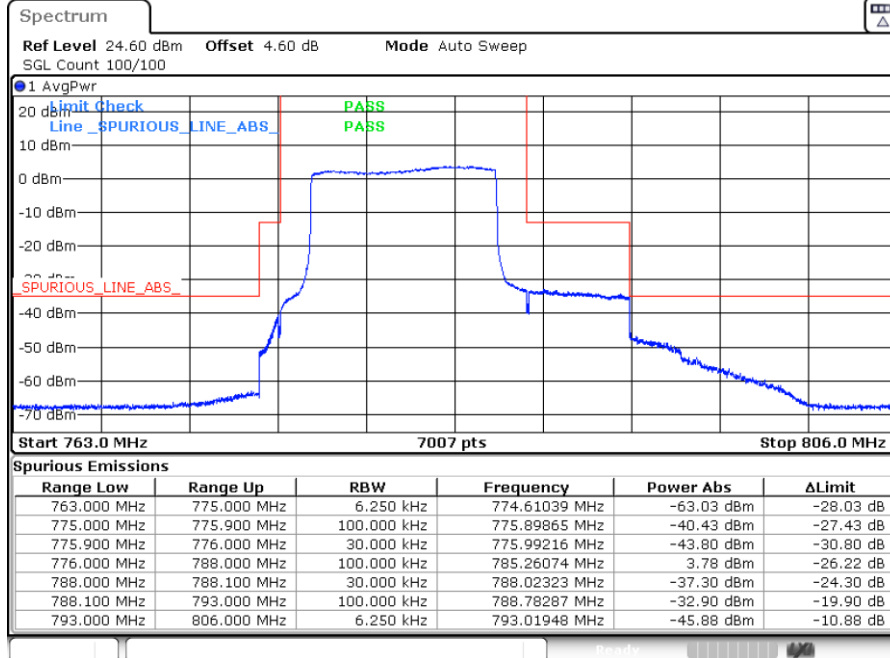
Date: 27.SEP.2024 15:29:27

middle Band Edge / 1 RB



Date: 27.SEP.2024 15:41:11

Middle Band Edge / Full RB

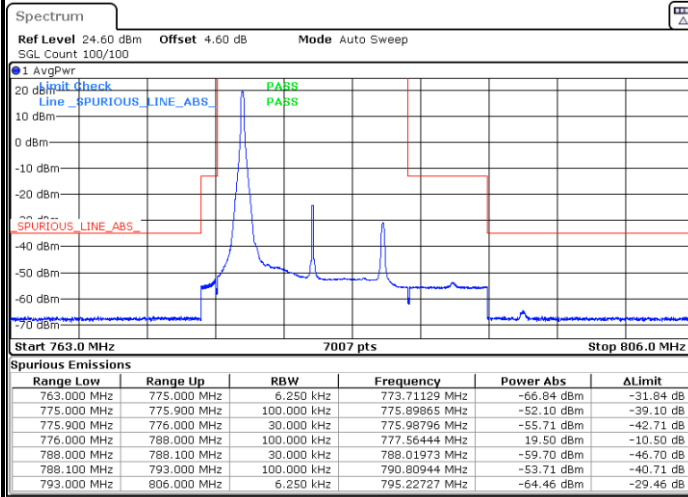


Date: 27.SEP.2024 15:33:44



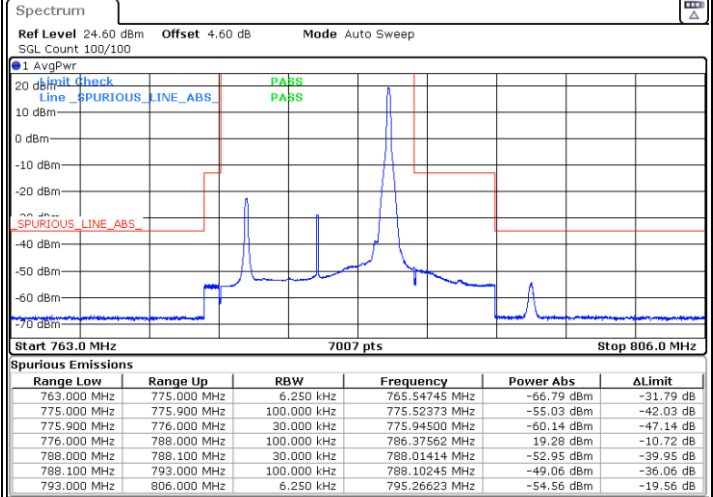
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



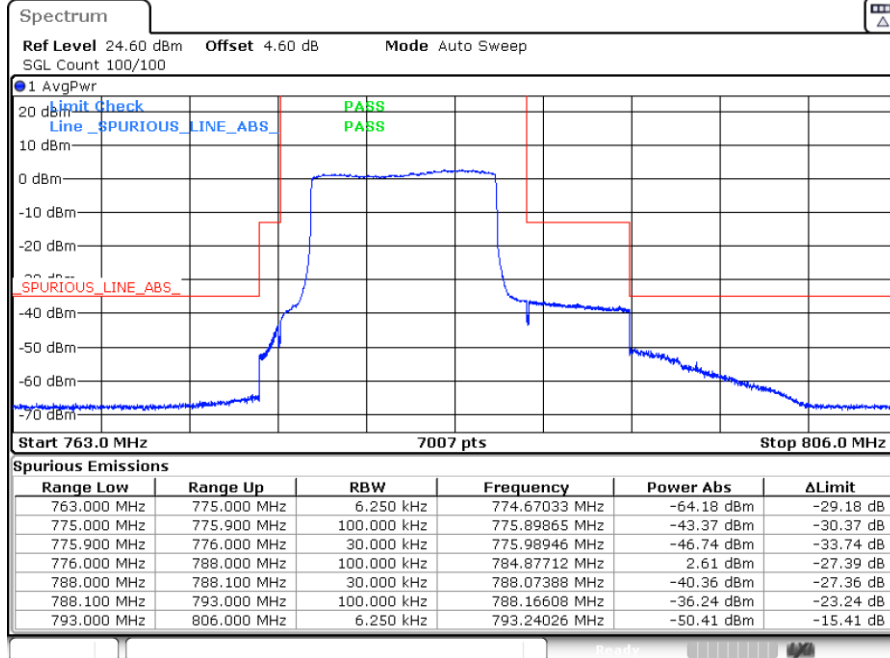
Date: 27.SEP.2024 15:30:53

middle Band Edge / 1 RB



Date: 27.SEP.2024 15:42:36

middle Band Edge / Full RB



Date: 27.SEP.2024 15:38:20