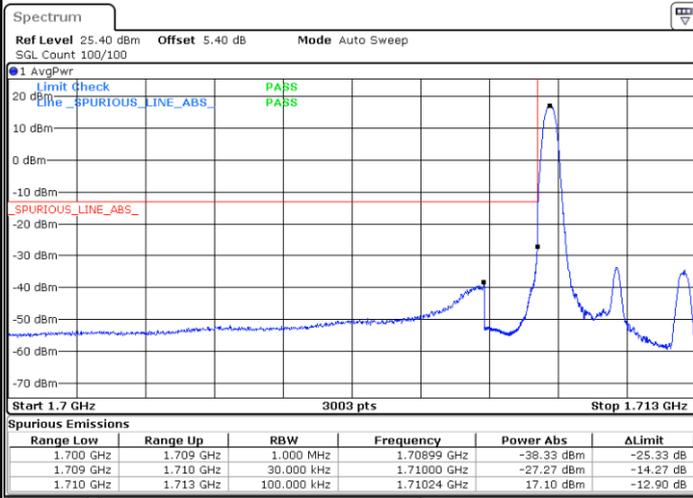




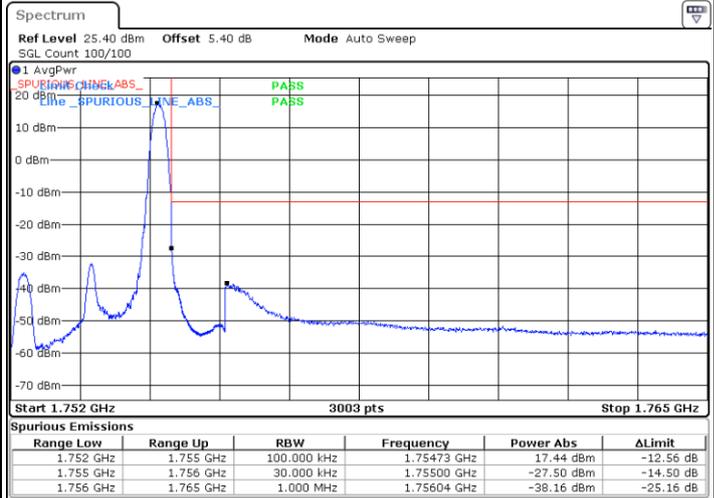
LTE Band 4 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



Date: 28.MAY.2024 17:01:30

Highest Band Edge / 1 RB



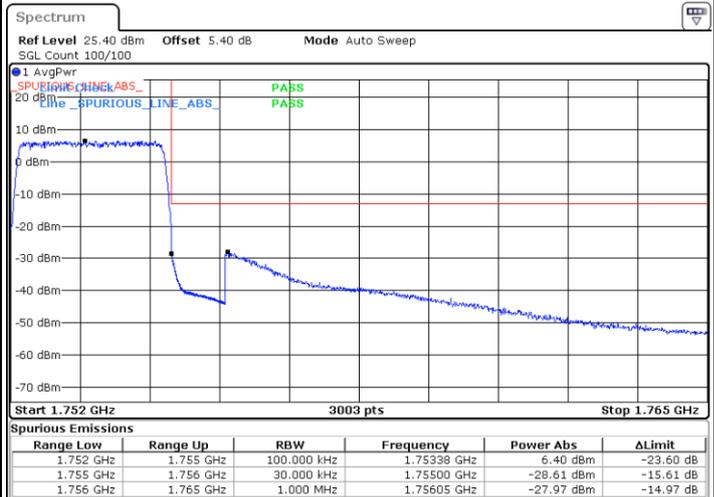
Date: 28.MAY.2024 17:19:30

Lowest Band Edge / Full RB



Date: 28.MAY.2024 17:12:08

Highest Band Edge / Full RB

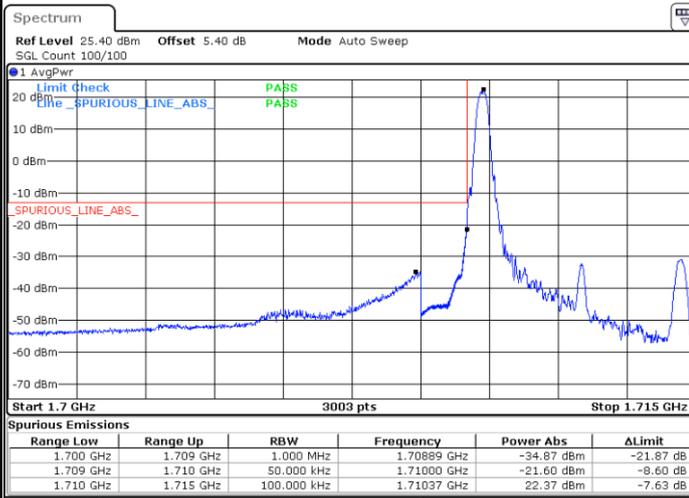


Date: 28.MAY.2024 17:23:10



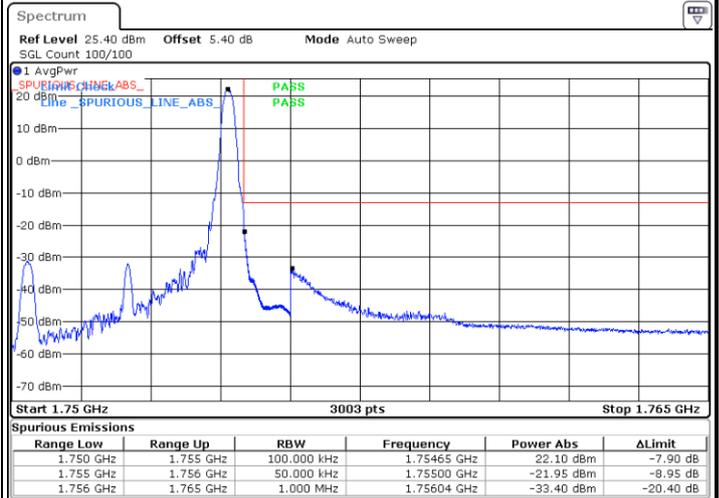
LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1 RB



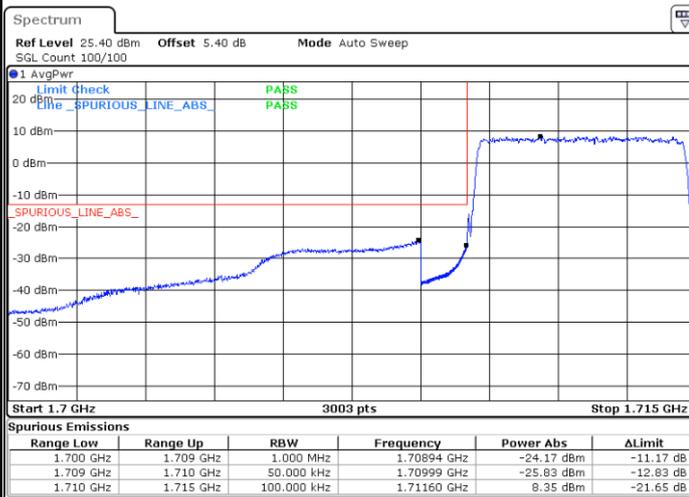
Date: 28.MAY.2024 17:26:14

Highest Band Edge / 1 RB



Date: 28.MAY.2024 17:37:20

Lowest Band Edge / Full RB



Date: 28.MAY.2024 17:30:55

Highest Band Edge / Full RB

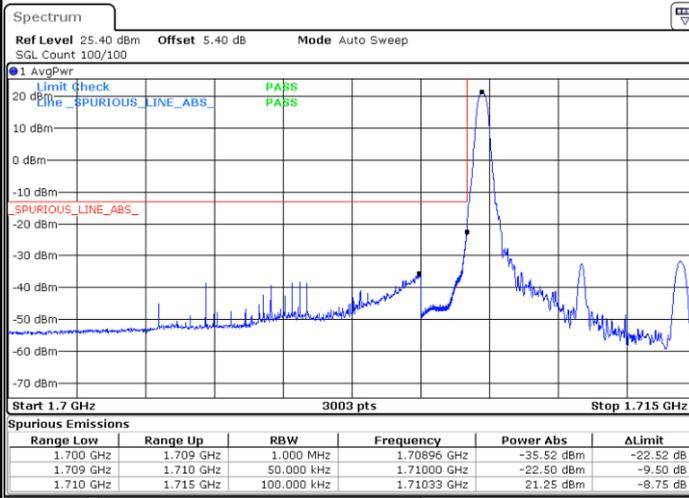


Date: 28.MAY.2024 17:43:15



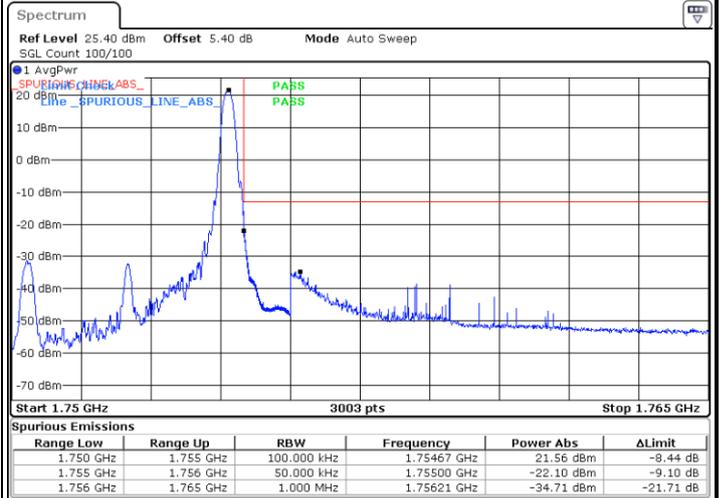
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 28.MAY.2024 17:27:09

Highest Band Edge / 1 RB



Date: 28.MAY.2024 17:38:15

Lowest Band Edge / Full RB



Date: 28.MAY.2024 17:31:51

Highest Band Edge / Full RB

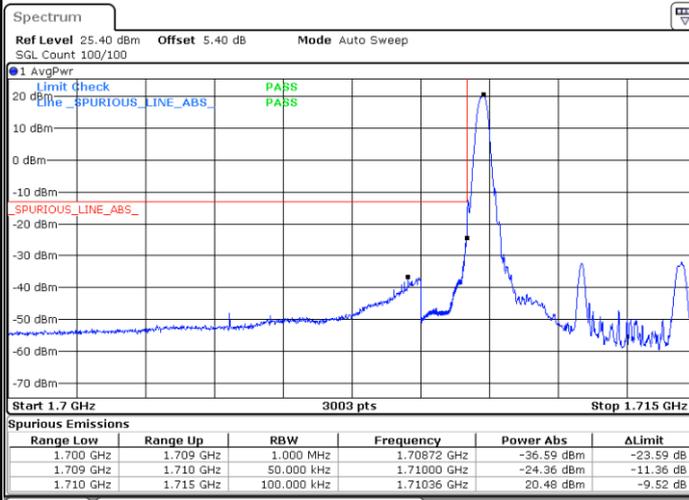


Date: 28.MAY.2024 17:44:11



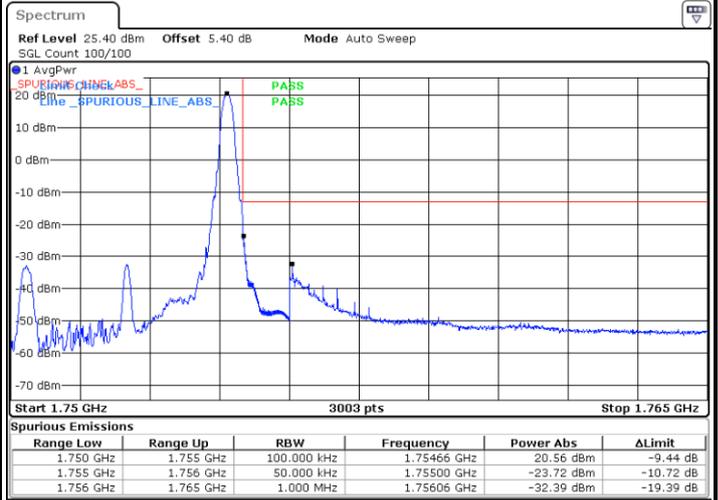
LTE Band 4 / 5MHz / 64QAM

Lowest Band Edge / 1RB



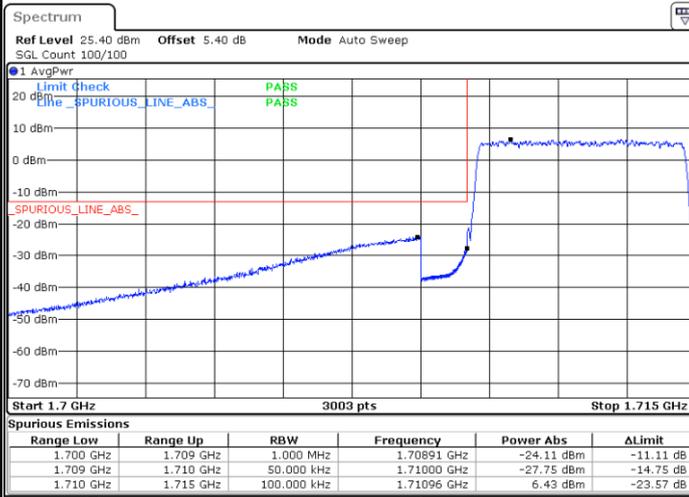
Date: 28.MAY.2024 17:28:04

Highest Band Edge / 1 RB



Date: 28.MAY.2024 17:39:10

Lowest Band Edge / Full RB



Date: 28.MAY.2024 17:32:46

Highest Band Edge / Full RB

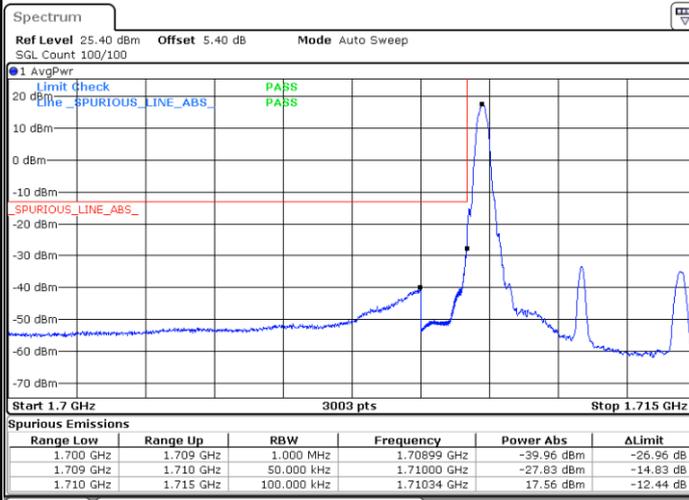


Date: 28.MAY.2024 17:45:06



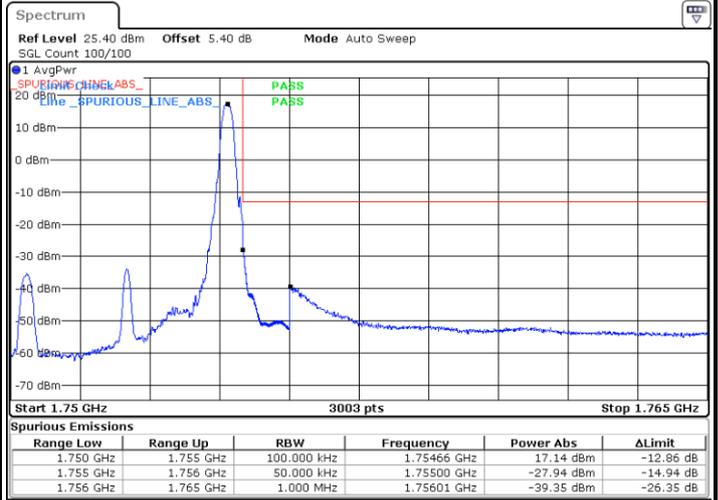
LTE Band 4 / 5MHz /256QAM

Lowest Band Edge / 1RB



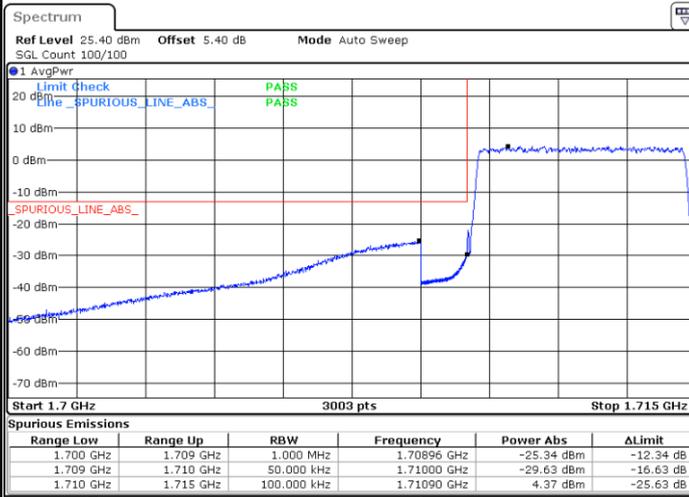
Date: 28.MAY.2024 17:28:59

Highest Band Edge / 1 RB



Date: 28.MAY.2024 17:40:05

Lowest Band Edge / Full RB



Date: 28.MAY.2024 17:33:41

Highest Band Edge / Full RB

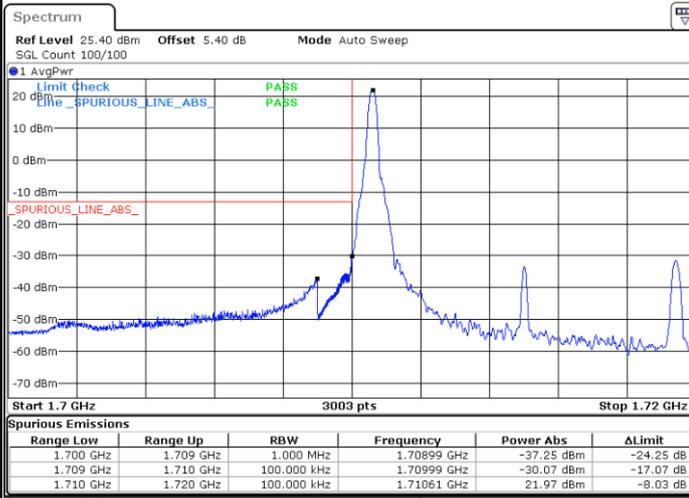


Date: 28.MAY.2024 17:46:01



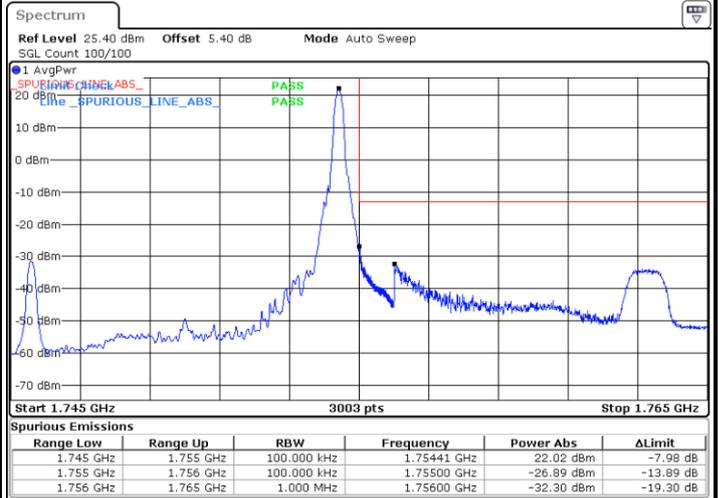
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



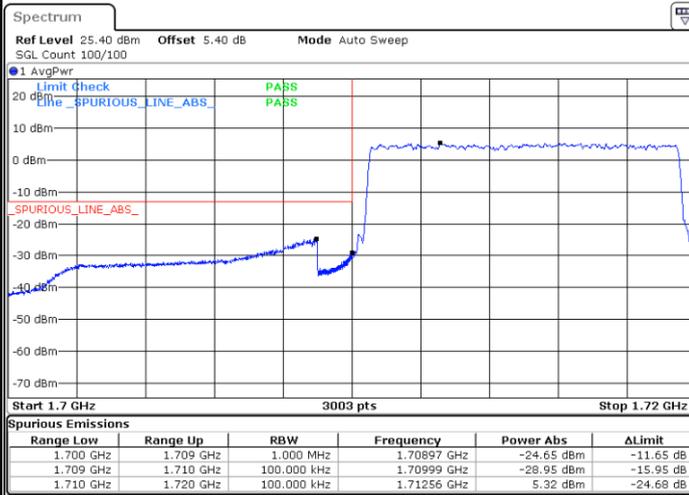
Date: 28.MAY.2024 17:49:01

Highest Band Edge / 1 RB



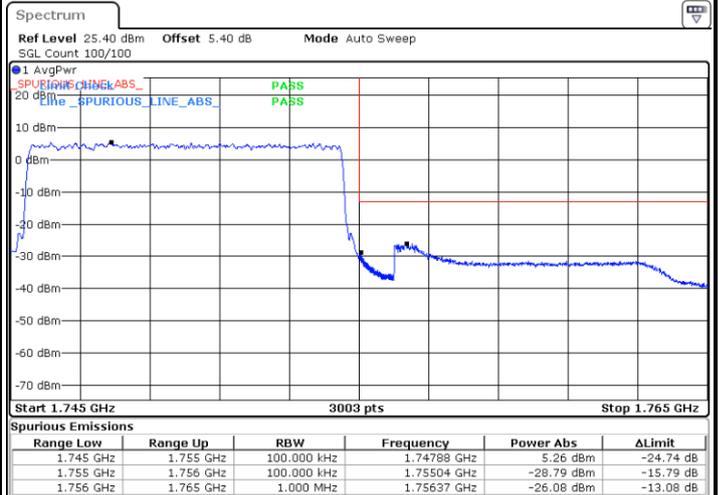
Date: 28.MAY.2024 18:12:58

Lowest Band Edge / Full RB



Date: 28.MAY.2024 17:54:39

Highest Band Edge / Full RB

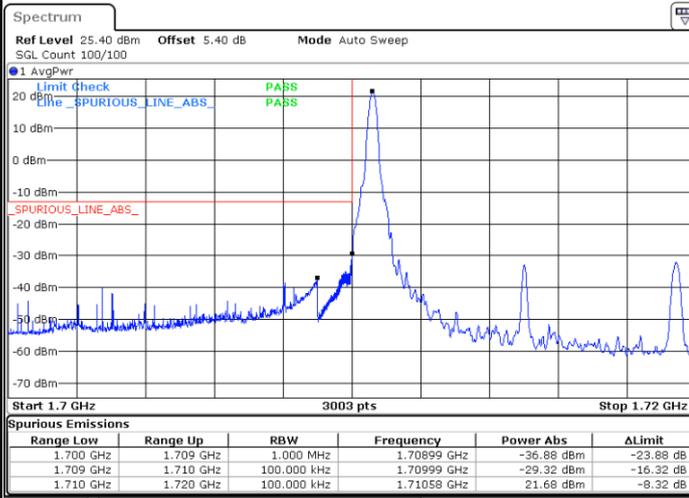


Date: 28.MAY.2024 18:17:07



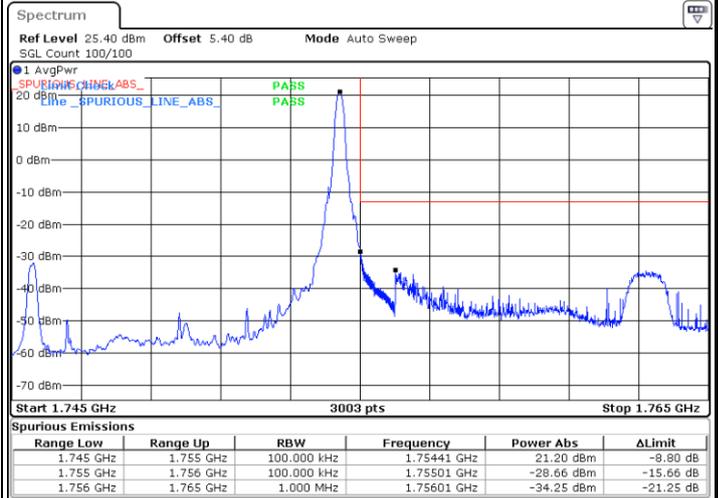
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



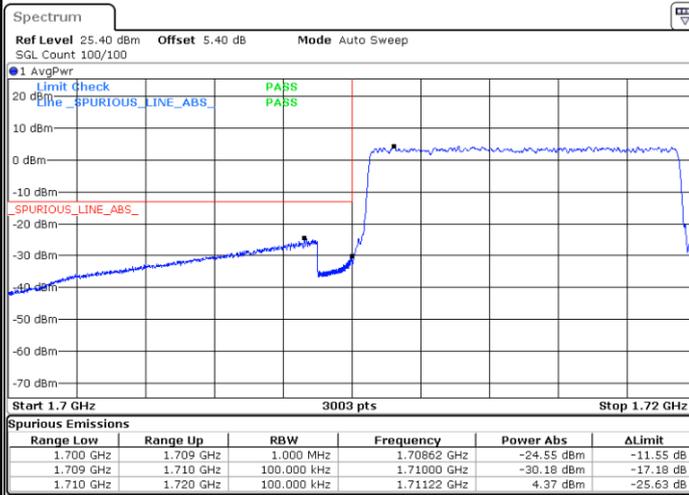
Date: 28.MAY.2024 17:49:56

Highest Band Edge / 1 RB



Date: 28.MAY.2024 18:13:53

Lowest Band Edge / Full RB



Date: 28.MAY.2024 17:55:34

Highest Band Edge / Full RB

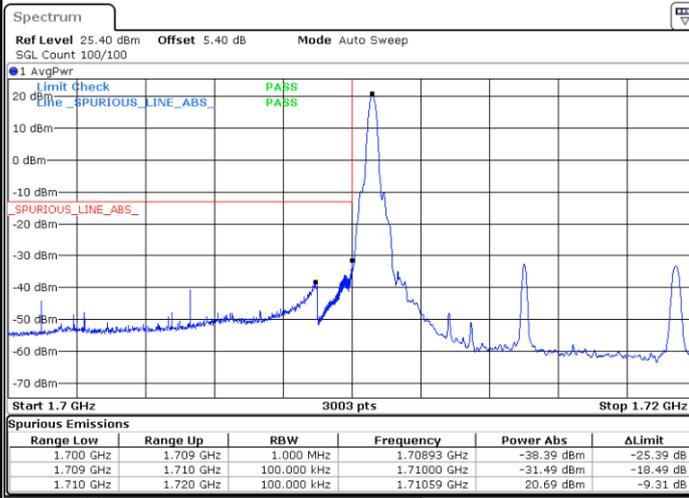


Date: 28.MAY.2024 18:18:03



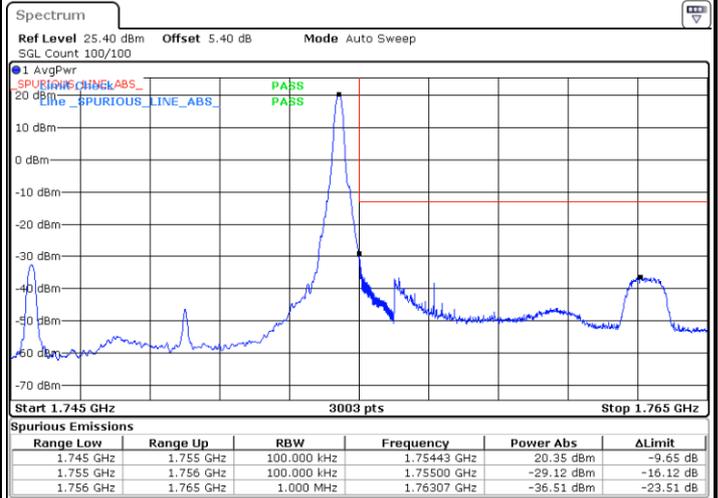
LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



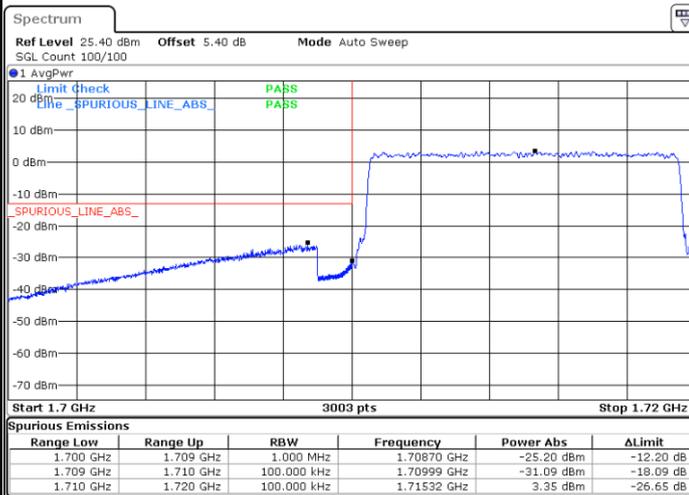
Date: 28.MAY.2024 17:50:51

Highest Band Edge / 1 RB



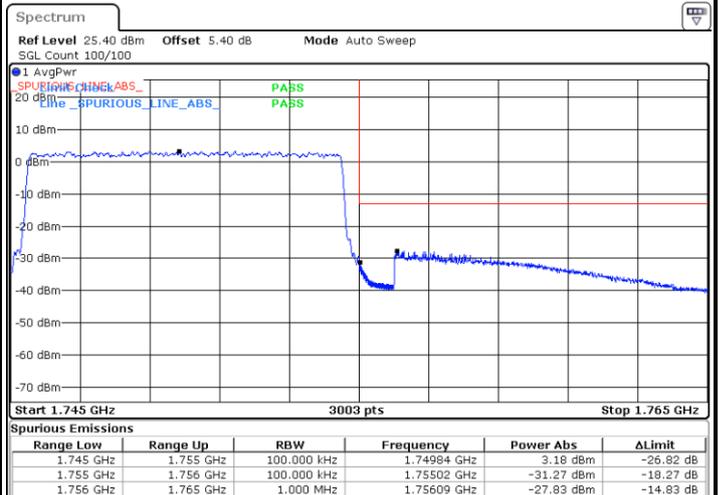
Date: 28.MAY.2024 18:14:49

Lowest Band Edge / Full RB



Date: 28.MAY.2024 17:56:29

Highest Band Edge / Full RB

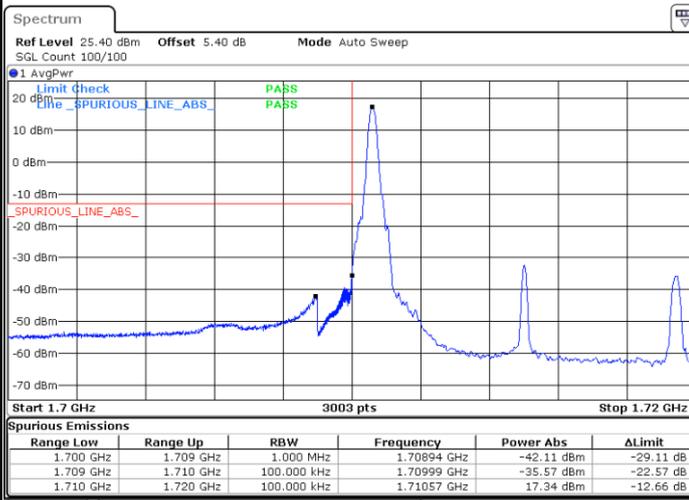


Date: 28.MAY.2024 18:18:58



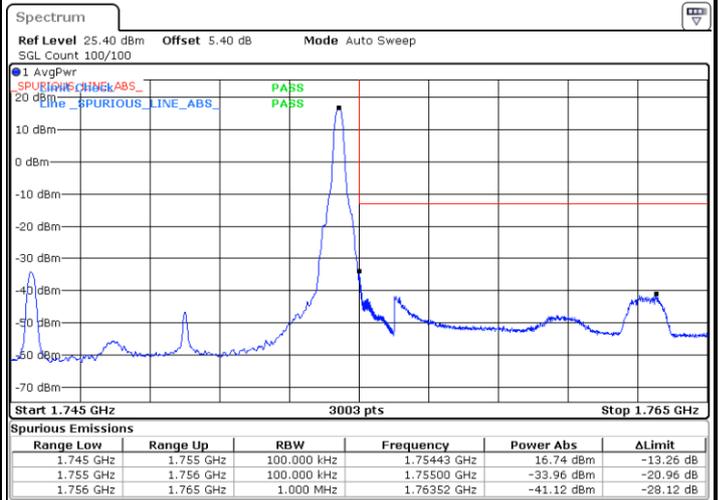
LTE Band 4 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



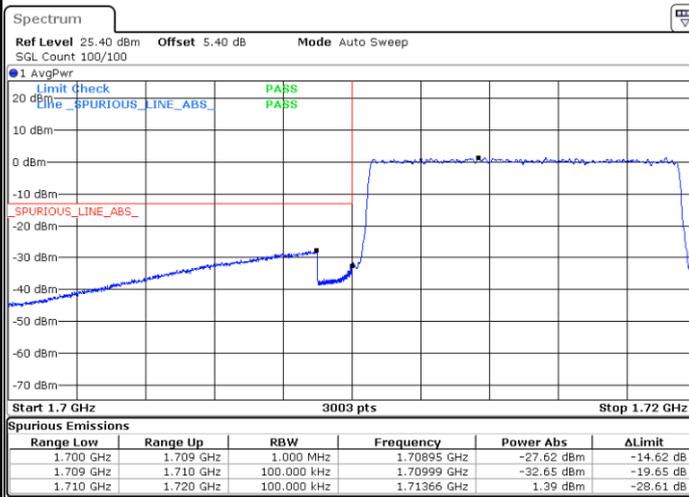
Date: 28.MAY.2024 17:51:46

Highest Band Edge / 1 RB



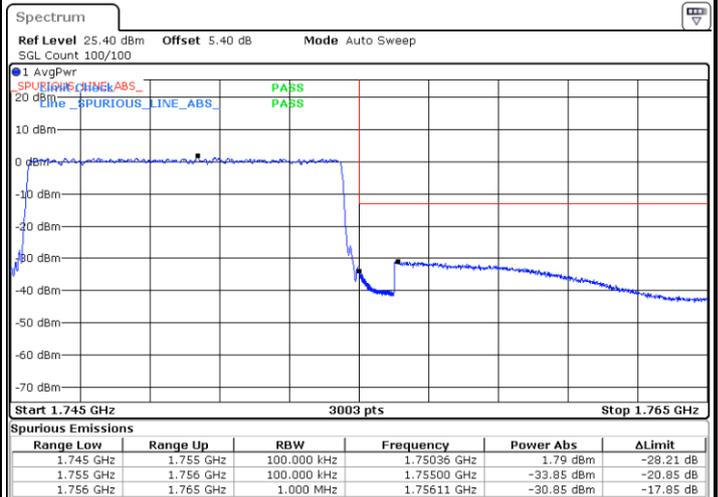
Date: 28.MAY.2024 18:15:44

Lowest Band Edge / Full RB



Date: 28.MAY.2024 17:57:24

Highest Band Edge / Full RB

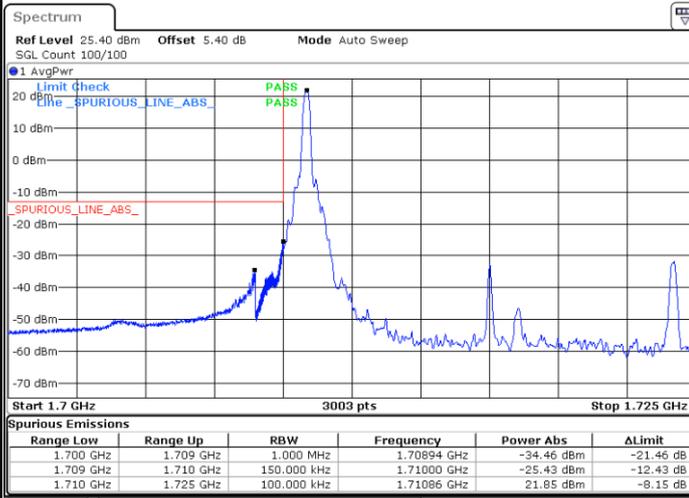


Date: 28.MAY.2024 18:19:53



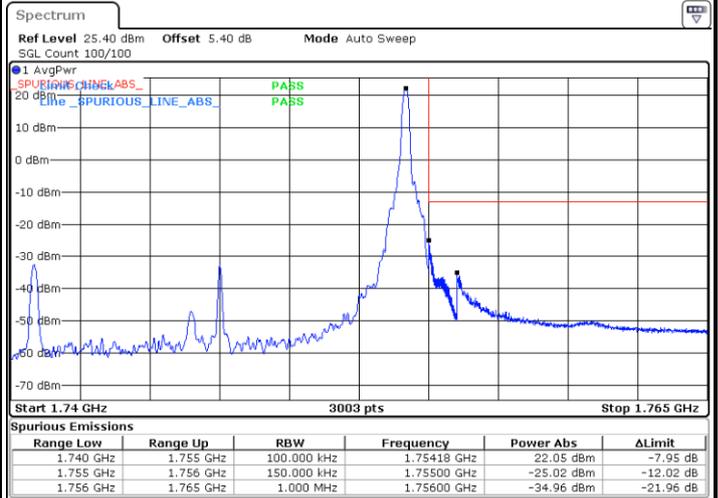
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



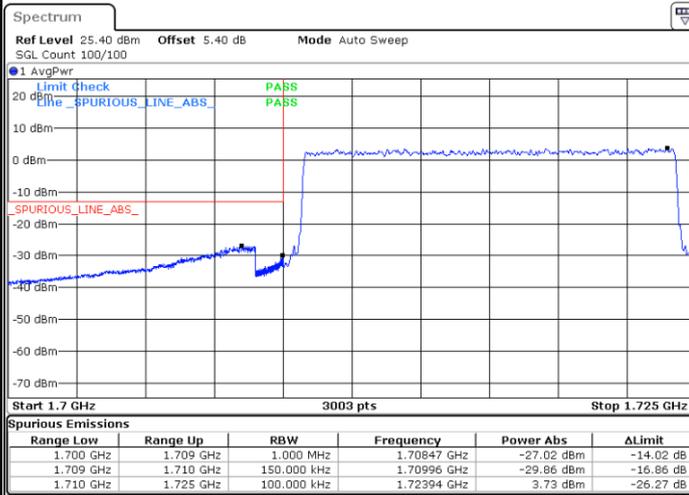
Date: 28.MAY.2024 18:23:09

Highest Band Edge / 1 RB



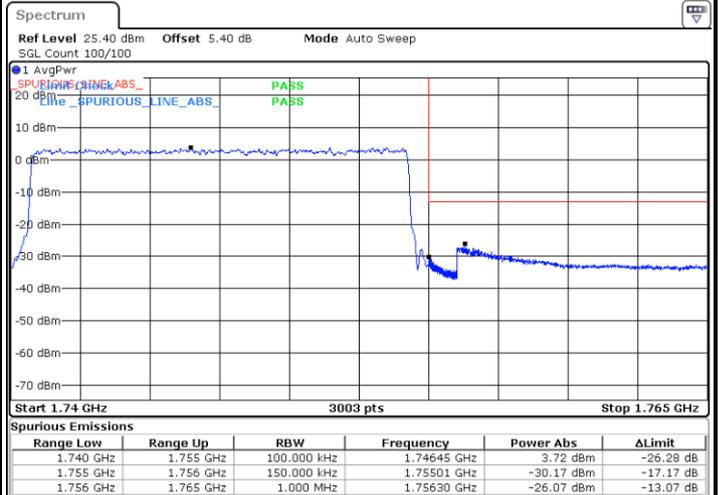
Date: 28.MAY.2024 18:35:36

Lowest Band Edge / Full RB



Date: 28.MAY.2024 18:27:26

Highest Band Edge / Full RB

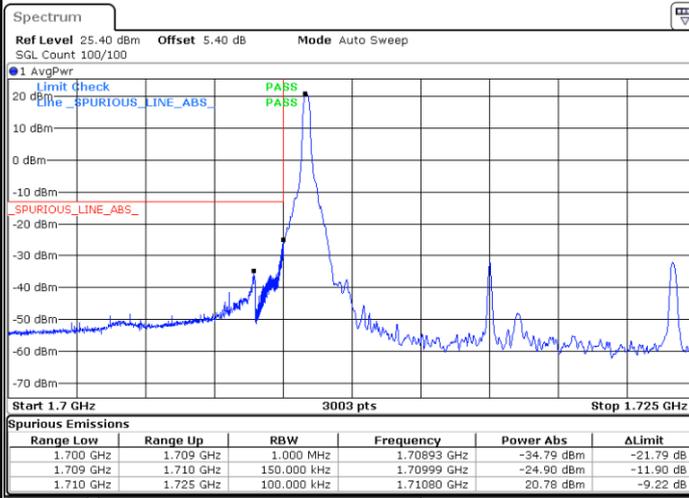


Date: 28.MAY.2024 18:40:18



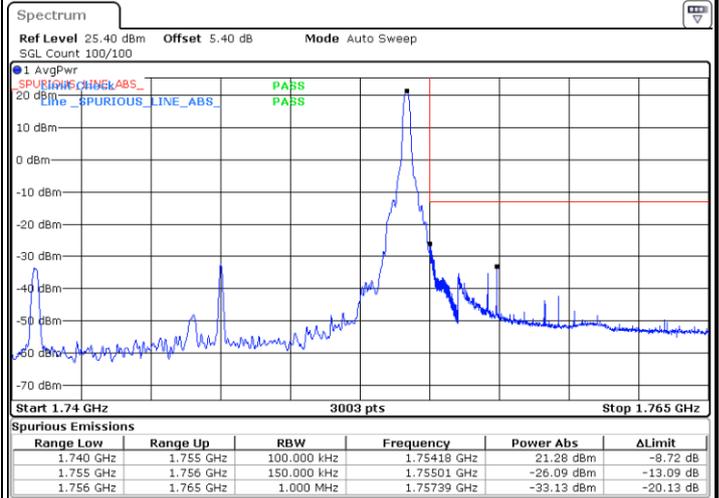
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



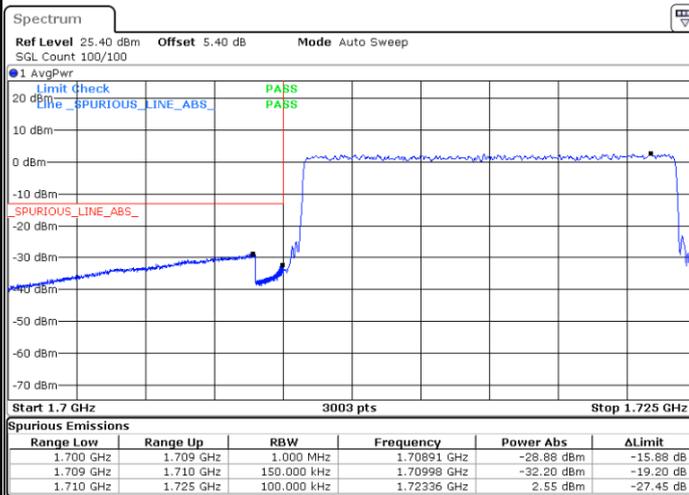
Date: 28.MAY.2024 18:24:05

Highest Band Edge / 1 RB



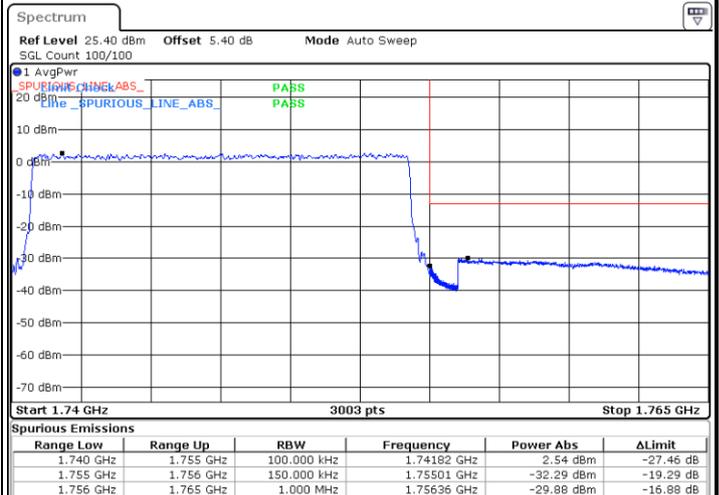
Date: 28.MAY.2024 18:36:31

Lowest Band Edge / Full RB



Date: 28.MAY.2024 18:28:21

Highest Band Edge / Full RB

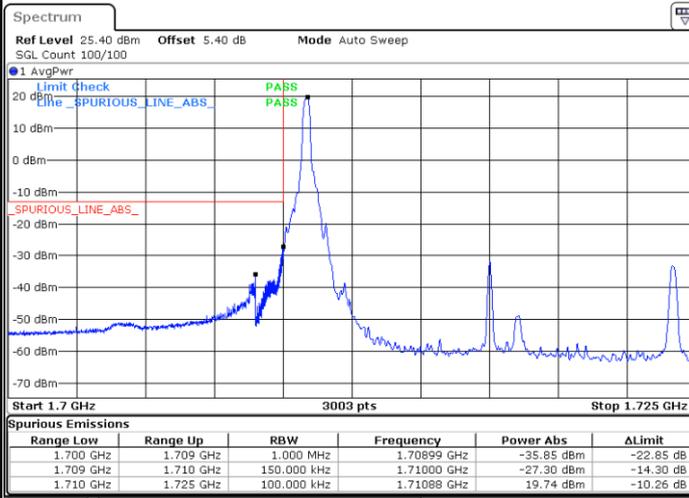


Date: 28.MAY.2024 18:41:13



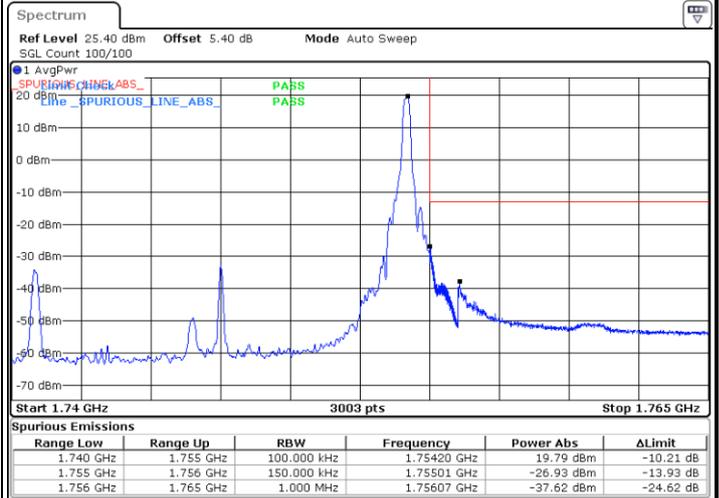
LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



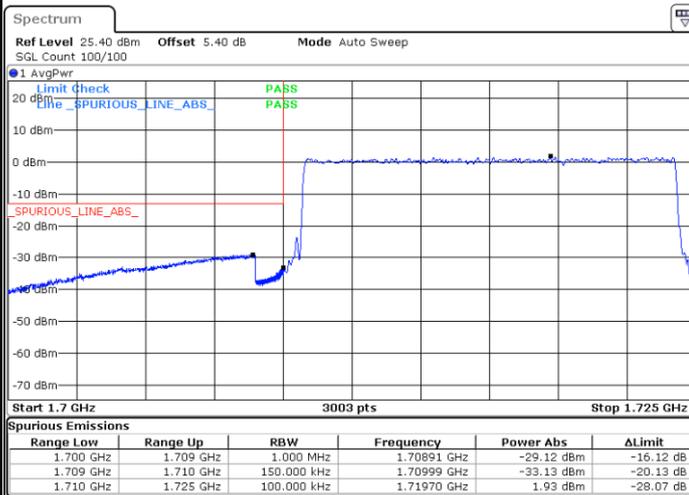
Date: 28.MAY.2024 18:25:00

Highest Band Edge / 1 RB



Date: 28.MAY.2024 18:37:27

Lowest Band Edge / Full RB



Date: 28.MAY.2024 18:29:17

Highest Band Edge / Full RB

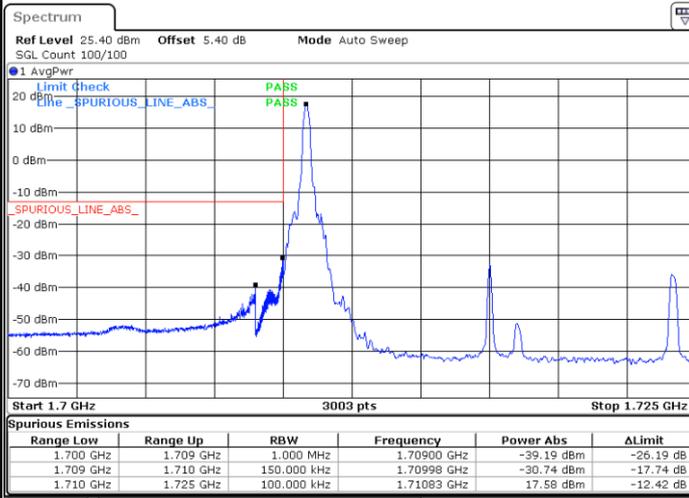


Date: 28.MAY.2024 18:42:09



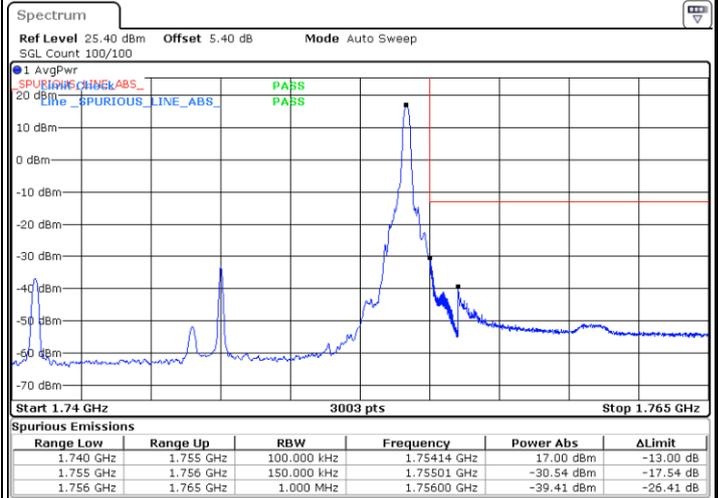
LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



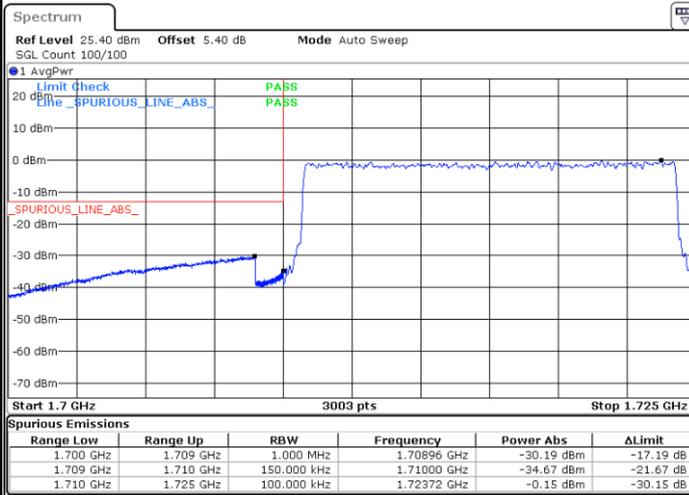
Date: 28.MAY.2024 18:25:56

Highest Band Edge / 1 RB



Date: 28.MAY.2024 18:38:22

Lowest Band Edge / Full RB



Date: 28.MAY.2024 18:30:12

Highest Band Edge / Full RB

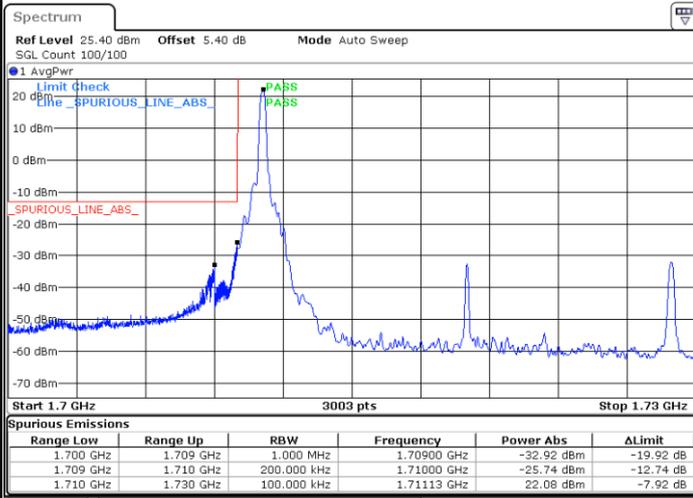


Date: 28.MAY.2024 18:43:04



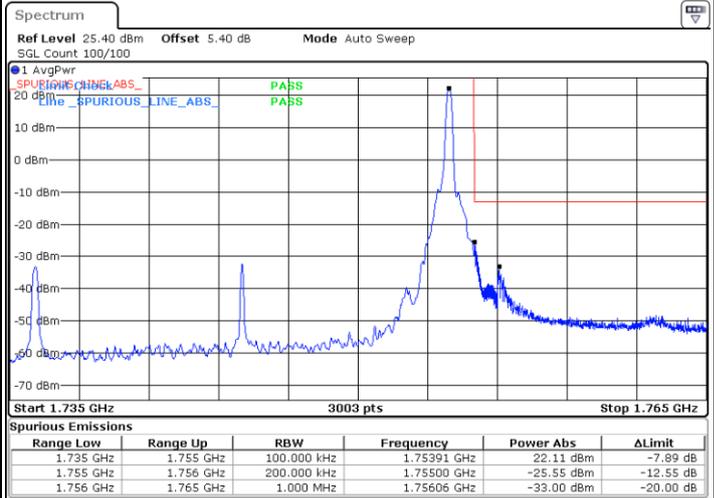
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



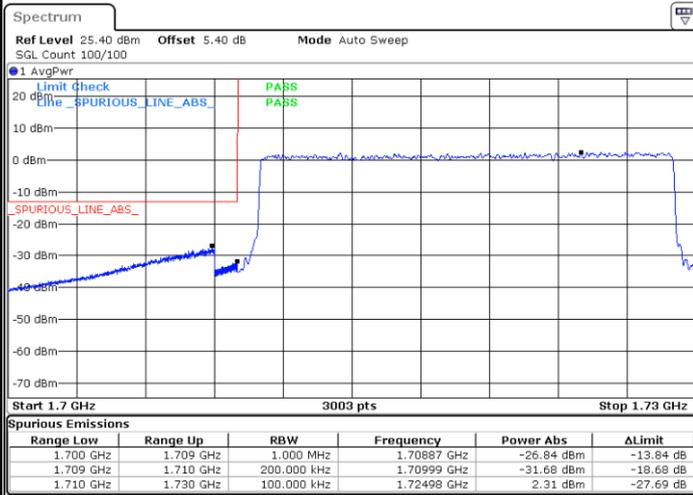
Date: 28.MAY.2024 18:46:40

Highest Band Edge / 1 RB



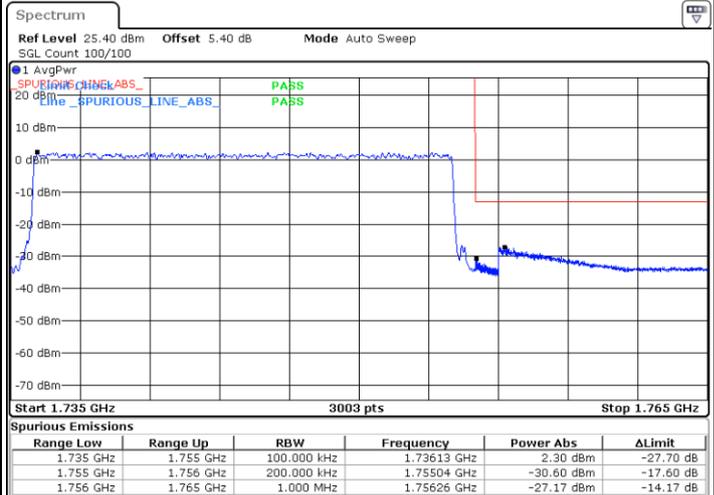
Date: 28.MAY.2024 19:00:10

Lowest Band Edge / Full RB



Date: 28.MAY.2024 18:51:35

Highest Band Edge / Full RB

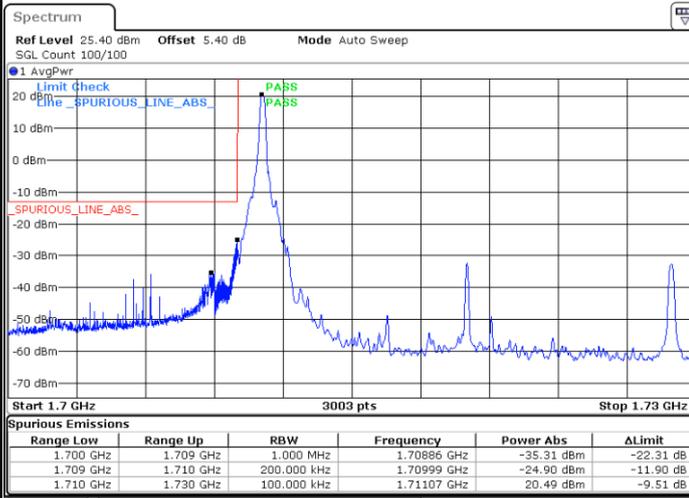


Date: 28.MAY.2024 19:04:29



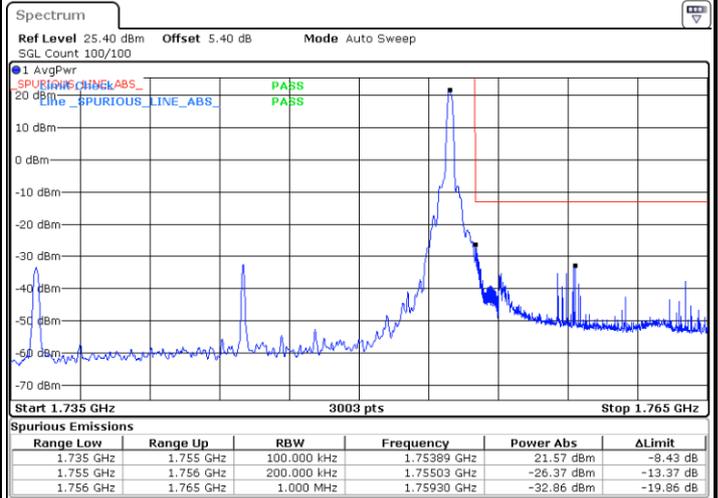
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



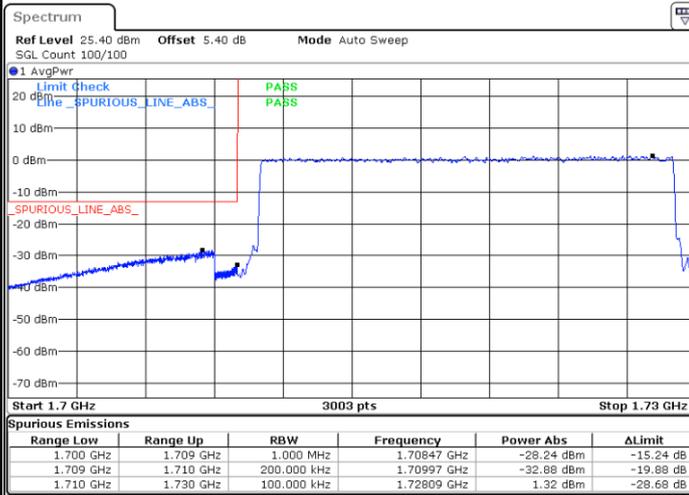
Date: 28.MAY.2024 18:47:36

Highest Band Edge / 1 RB



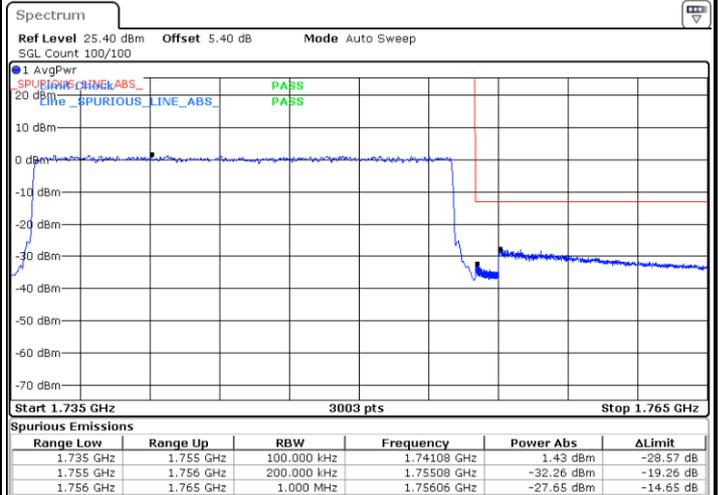
Date: 28.MAY.2024 19:01:06

Lowest Band Edge / Full RB



Date: 28.MAY.2024 18:52:30

Highest Band Edge / Full RB

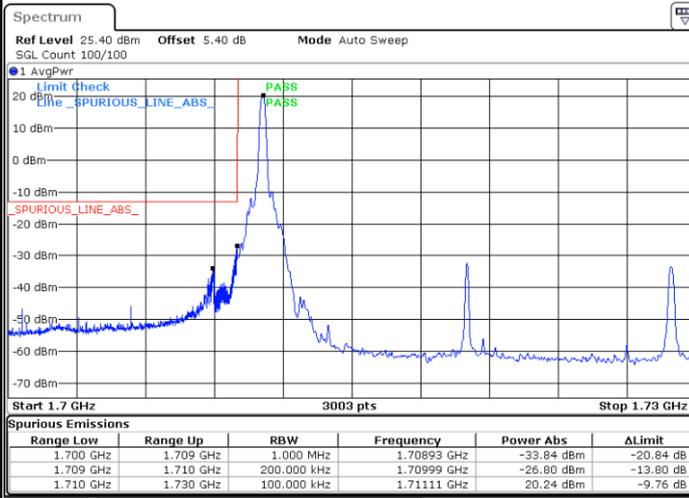


Date: 28.MAY.2024 19:05:25



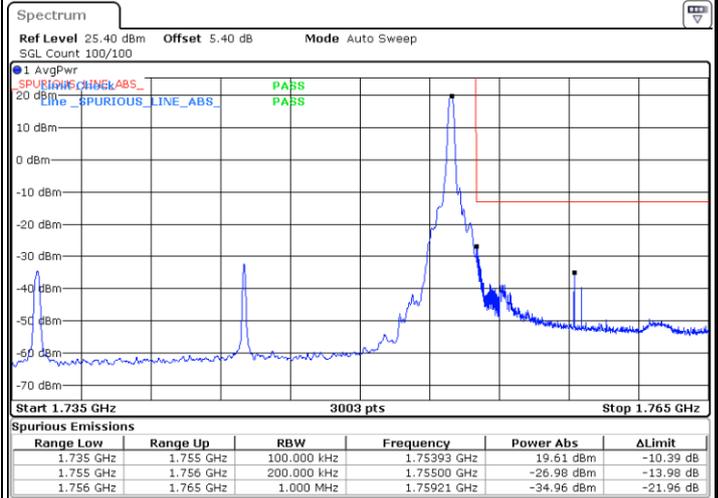
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



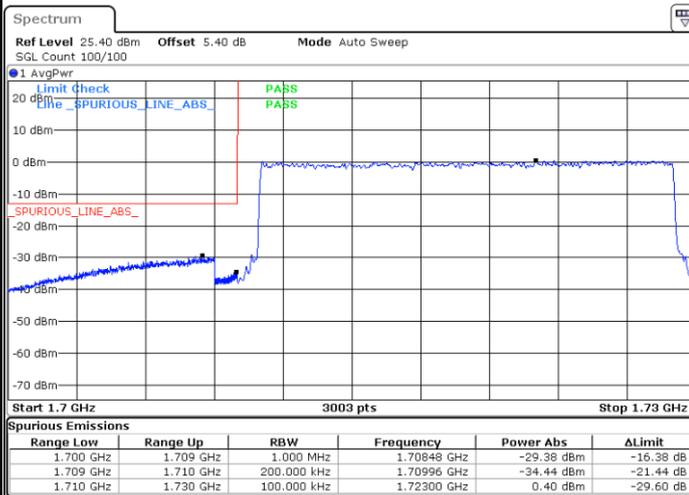
Date: 28.MAY.2024 18:48:30

Highest Band Edge / 1 RB



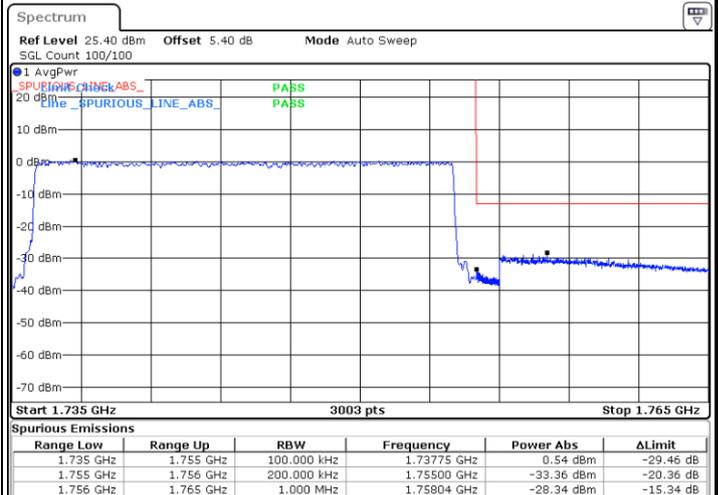
Date: 28.MAY.2024 19:02:01

Lowest Band Edge / Full RB



Date: 28.MAY.2024 18:53:25

Highest Band Edge / Full RB

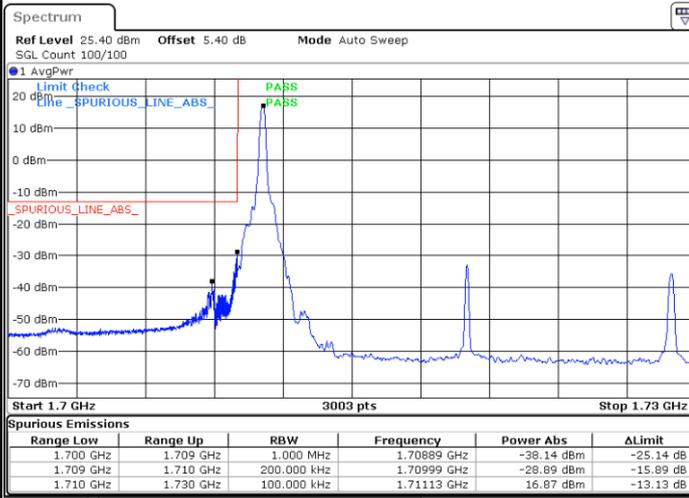


Date: 28.MAY.2024 19:06:20

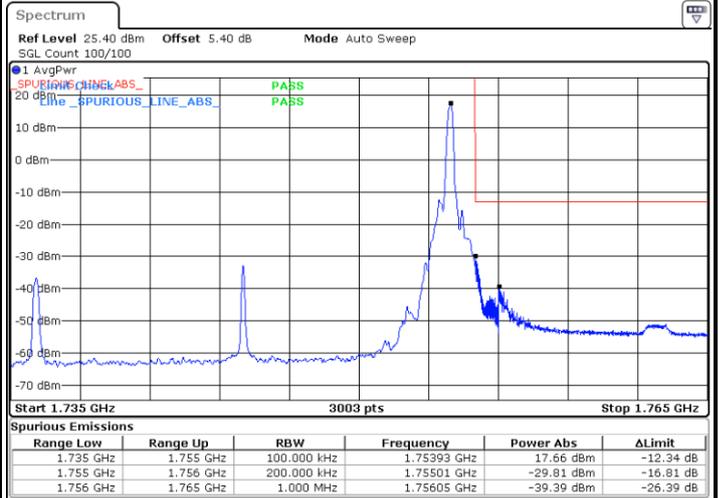


LTE Band 4 / 20MHz / 256QAM

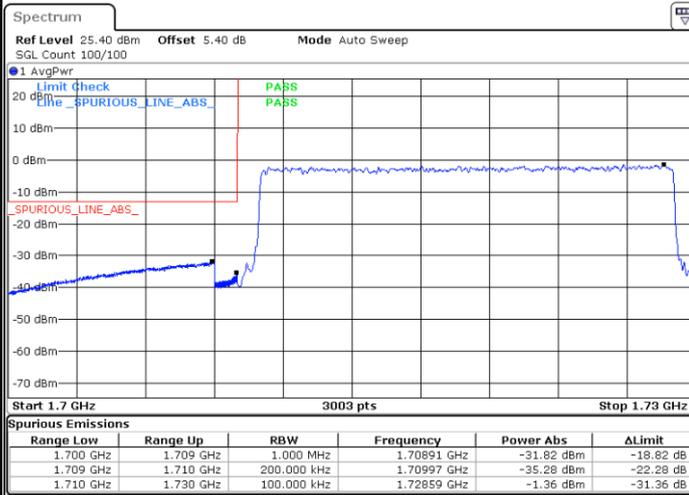
Lowest Band Edge / 1 RB



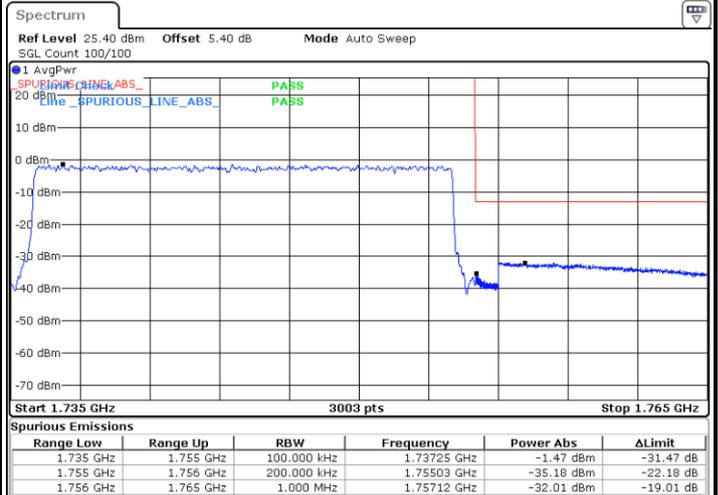
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

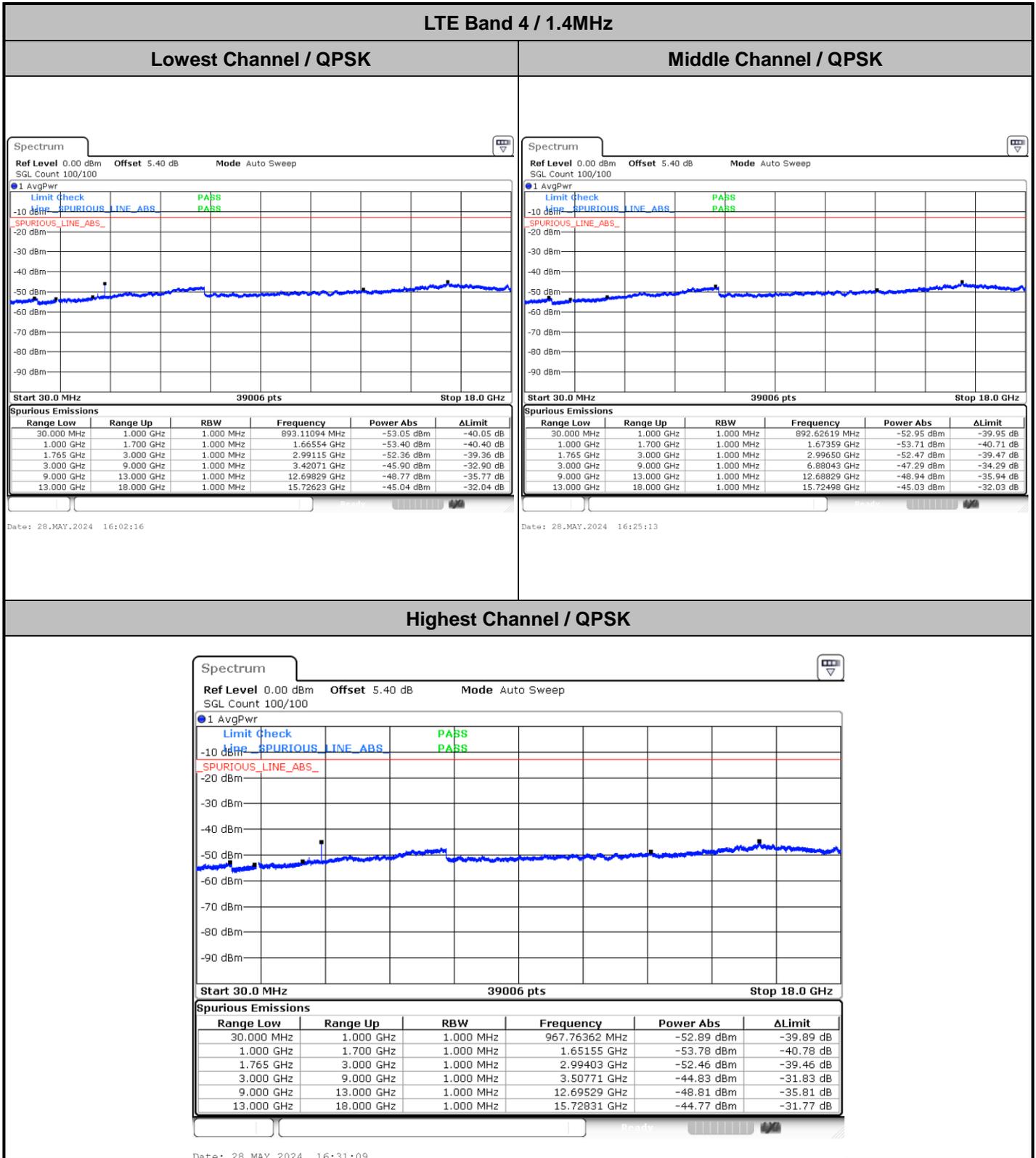


Highest Band Edge / Full RB





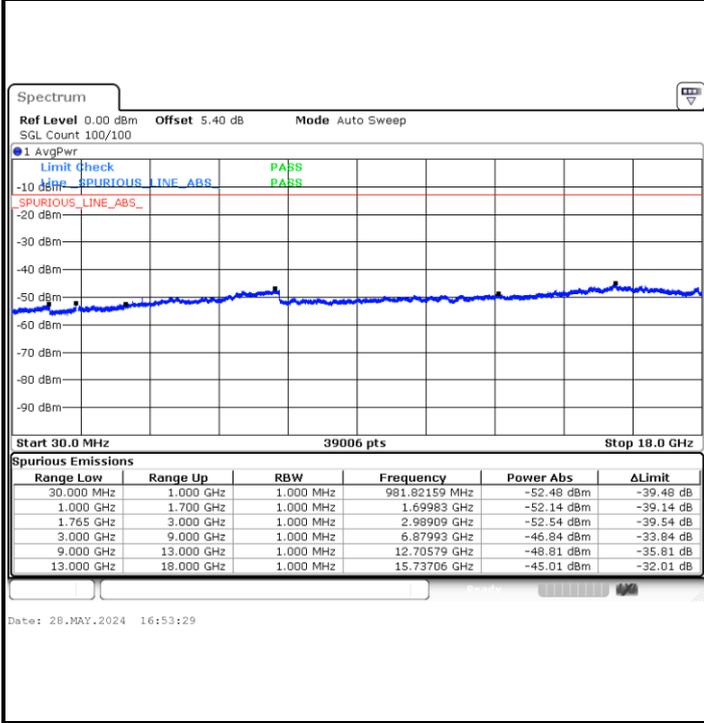
# Conducted Spurious Emission



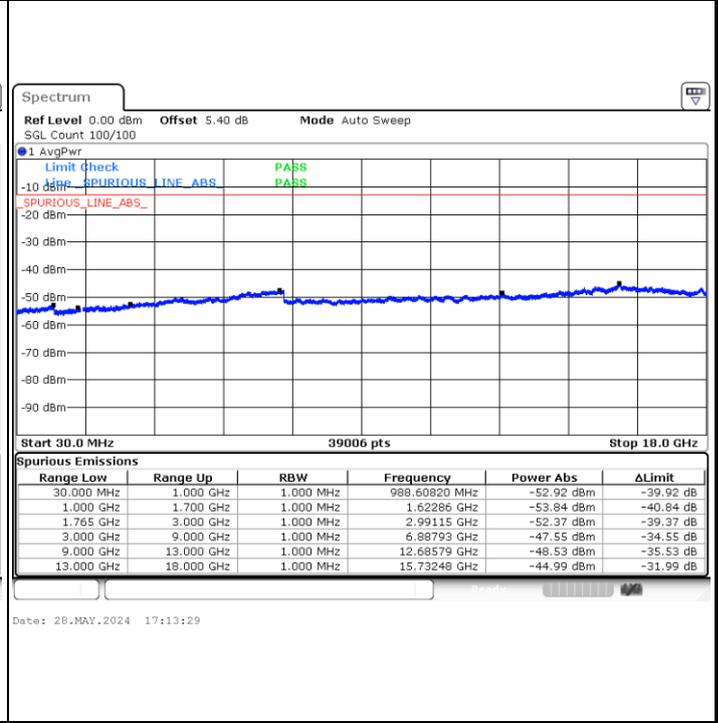


**LTE Band 4 / 3MHz**

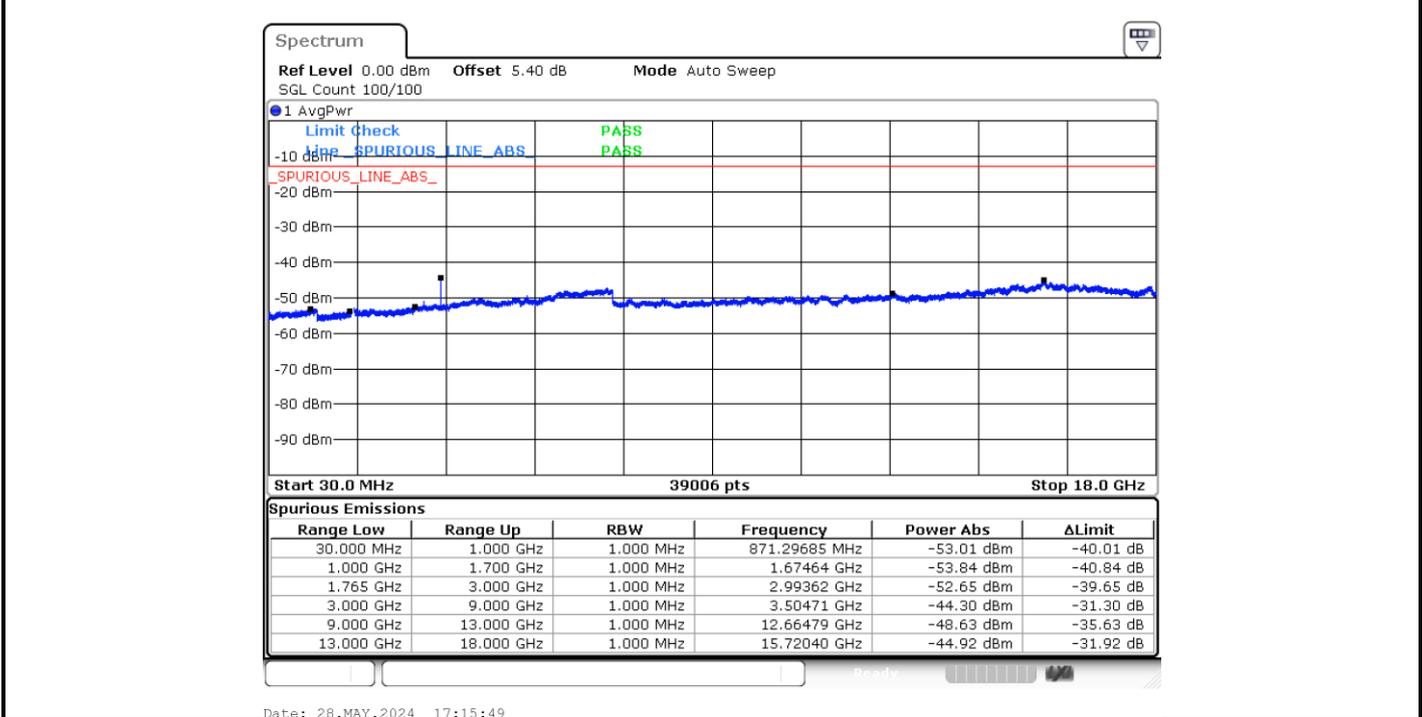
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

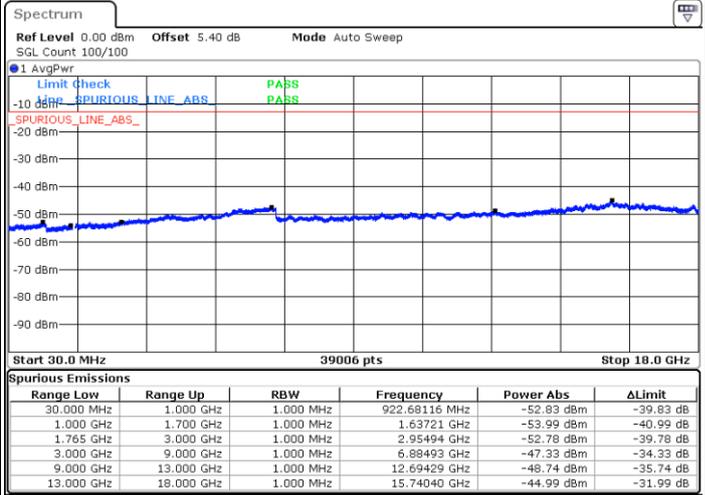
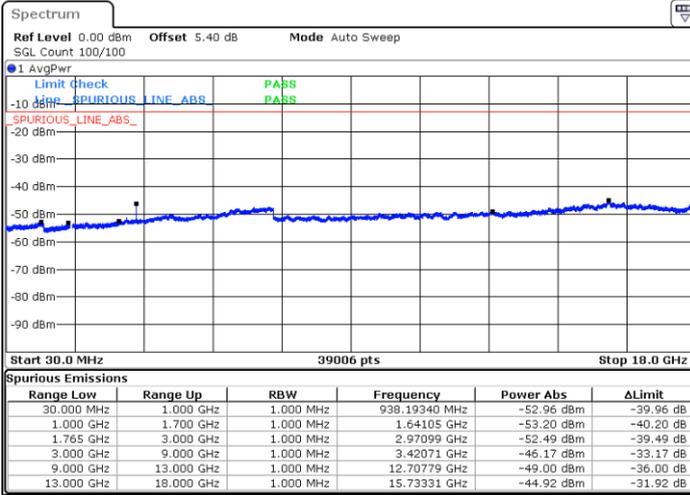




LTE Band 4 / 5MHz

Lowest Channel / QPSK

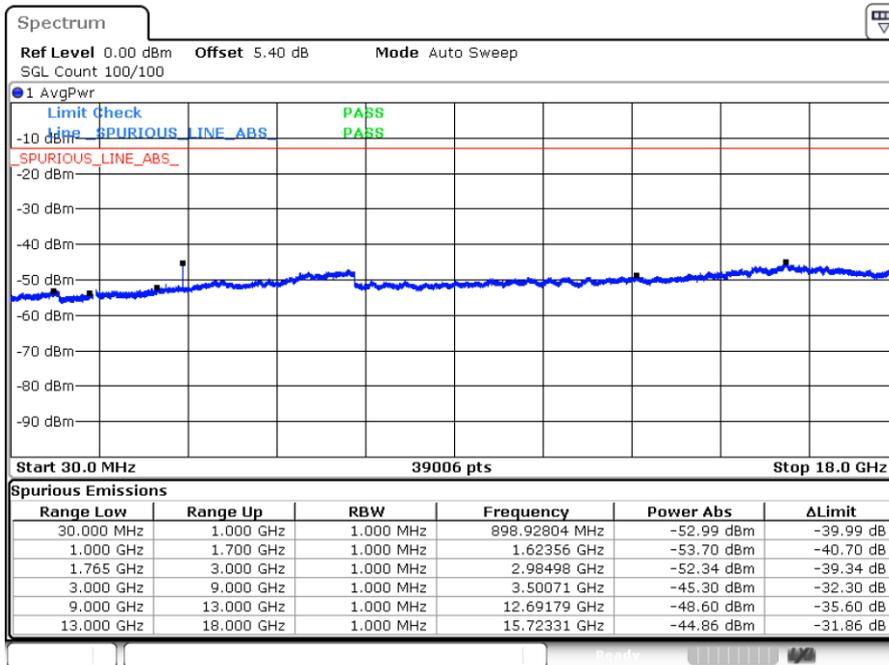
Middle Channel / QPSK



Date: 28.MAY.2024 17:25:19

Date: 28.MAY.2024 17:35:03

Highest Channel / QPSK



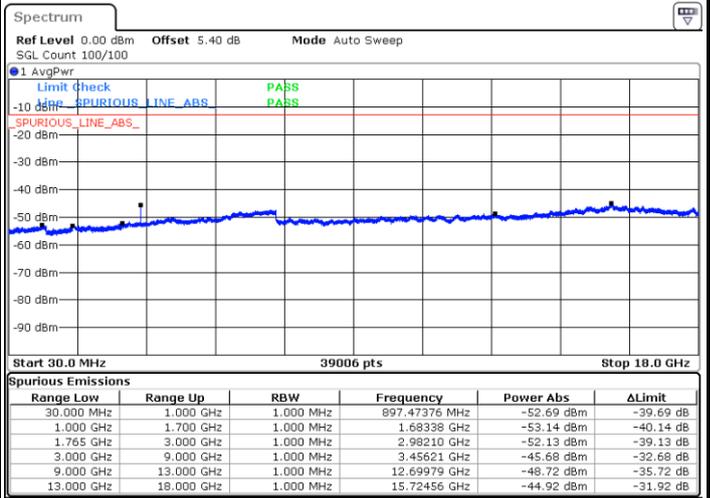
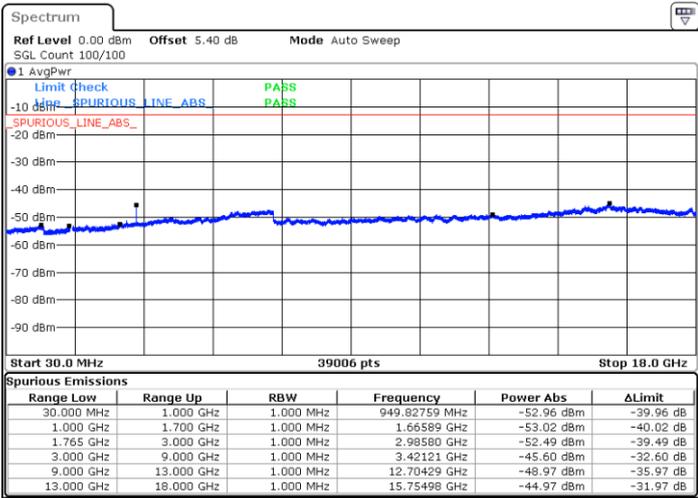
Date: 28.MAY.2024 17:36:25



LTE Band 4 / 10MHz

Lowest Channel / QPSK

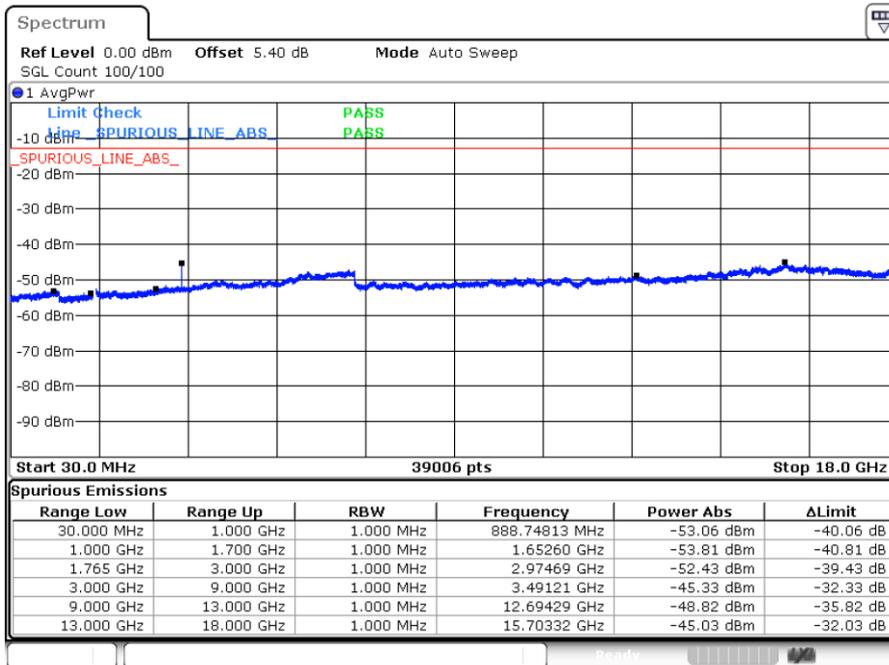
Middle Channel / QPSK



Date: 28.MAY.2024 17:48:06

Date: 28.MAY.2024 18:10:40

Highest Channel / QPSK



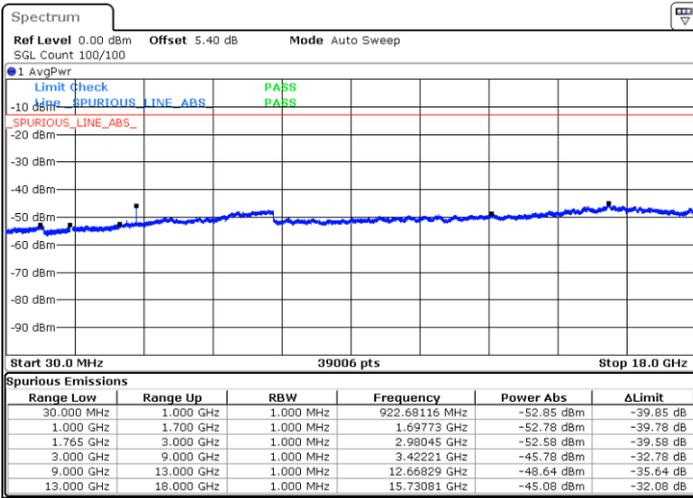
Date: 28.MAY.2024 18:12:02



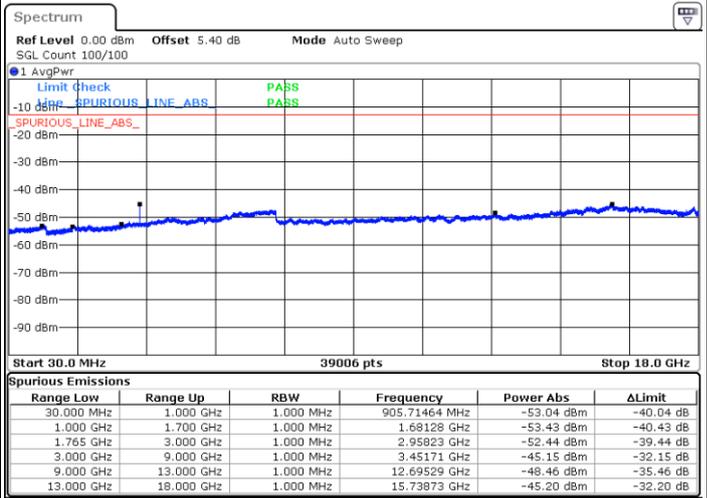
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

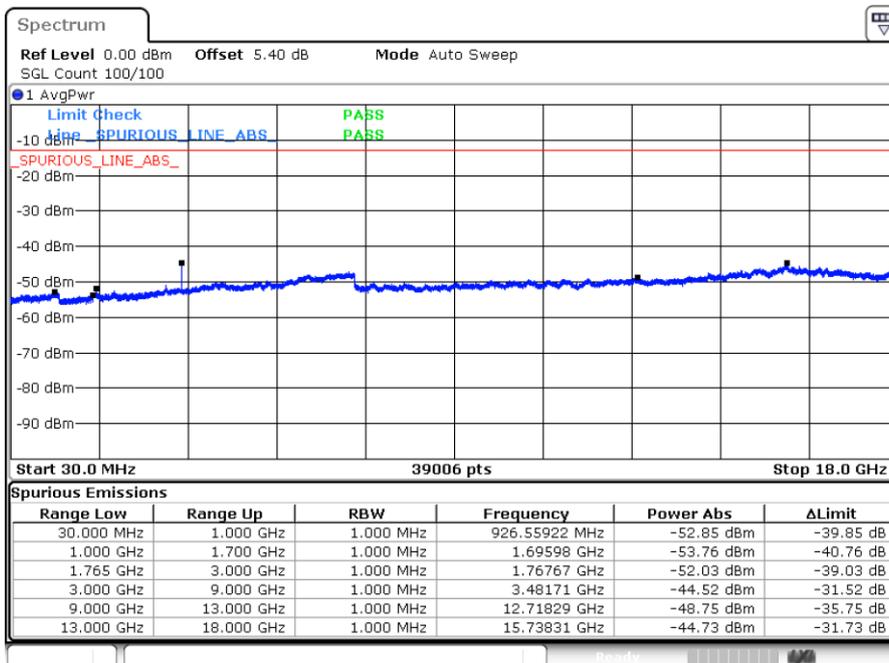


Date: 28.MAY.2024 18:22:14



Date: 28.MAY.2024 18:33:18

Highest Channel / QPSK



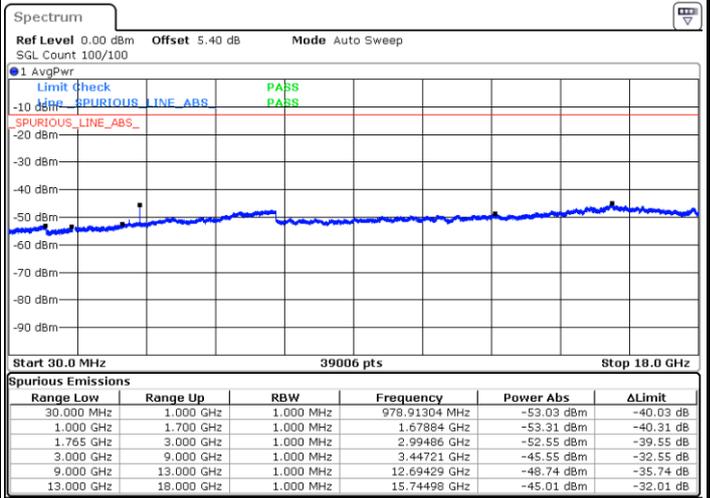
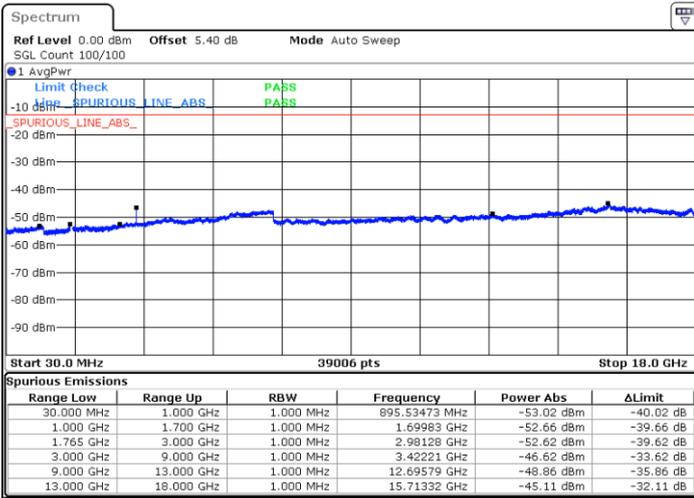
Date: 28.MAY.2024 18:34:40



LTE Band 4 / 20MHz

Lowest Channel / QPSK

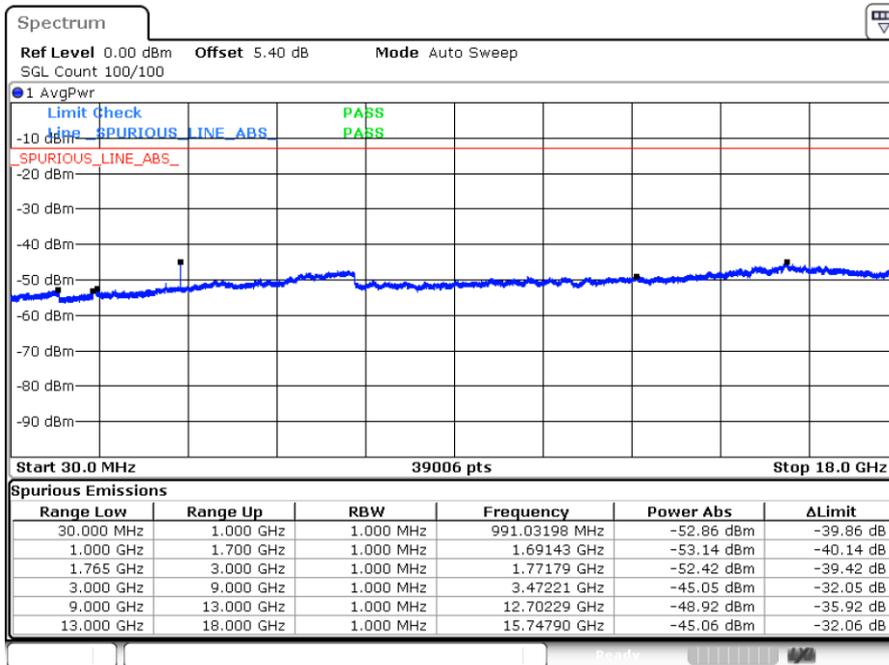
Middle Channel / QPSK



Date: 28.MAY.2024 18:45:44

Date: 28.MAY.2024 18:57:52

Highest Channel / QPSK



Date: 28.MAY.2024 18:59:15



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0055	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0068	
20	Battery End Point	0.0076	

Note:

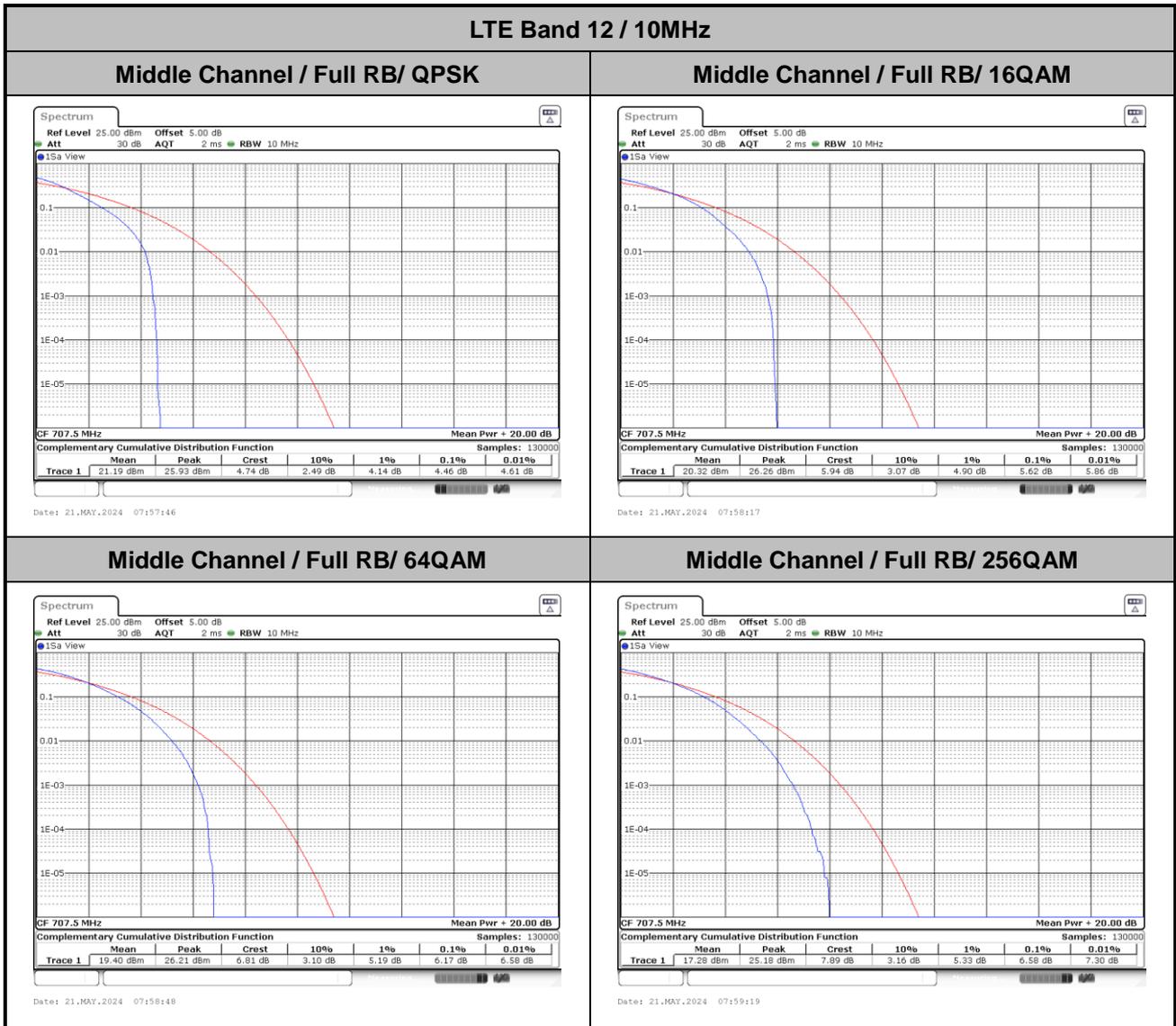
1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 12

## Peak-to-Average Ratio

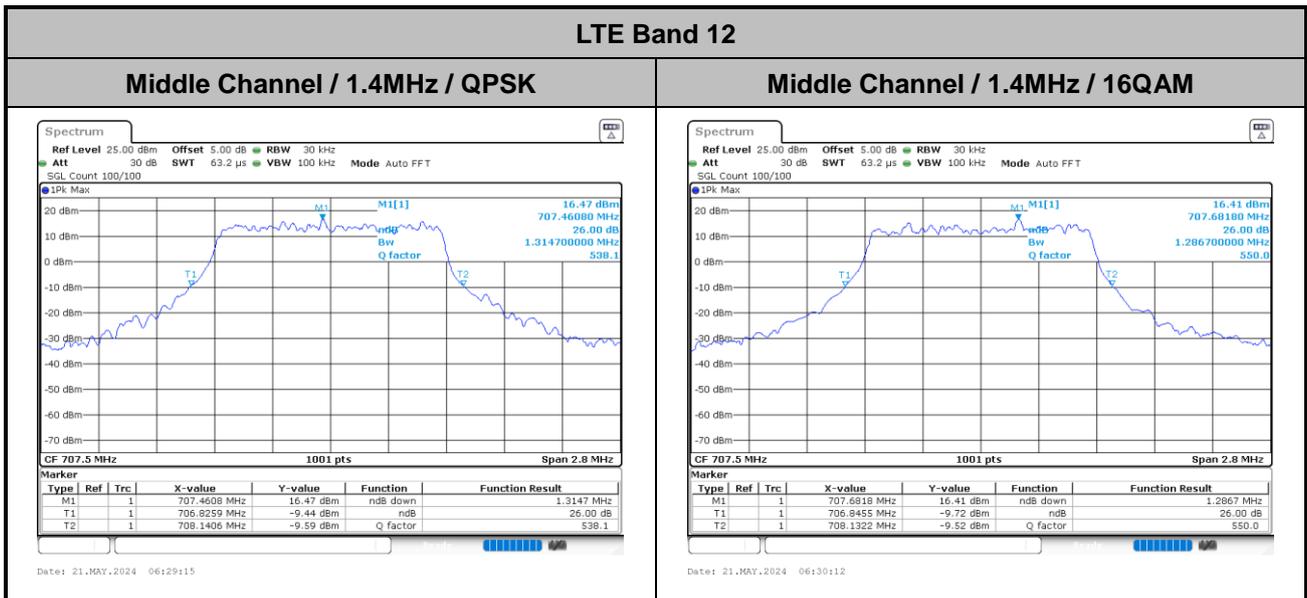
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.46	5.62	6.17	6.58	PASS





## 26dB Bandwidth

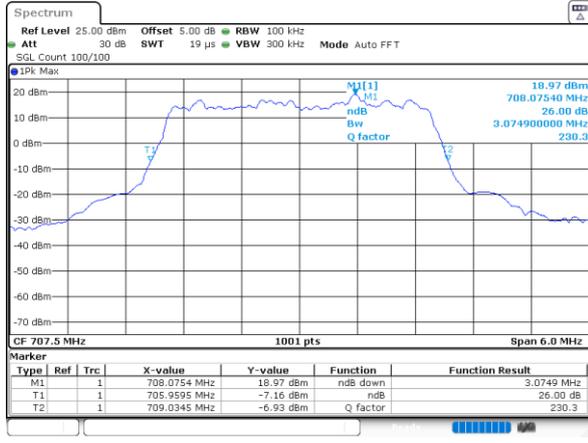
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.31	1.29
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.07	3.06
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.04	5.06
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	10.01	9.71





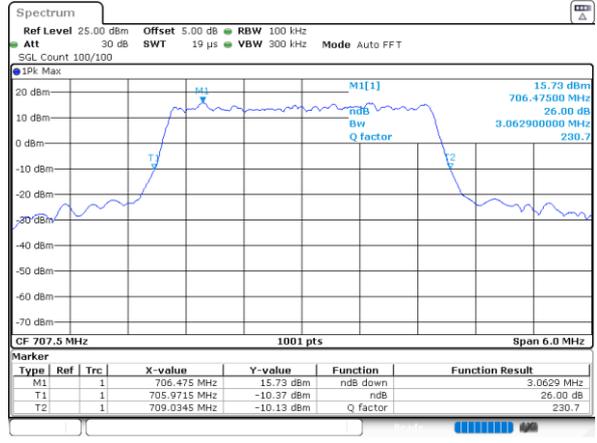
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 21.MAY.2024 06:57:20

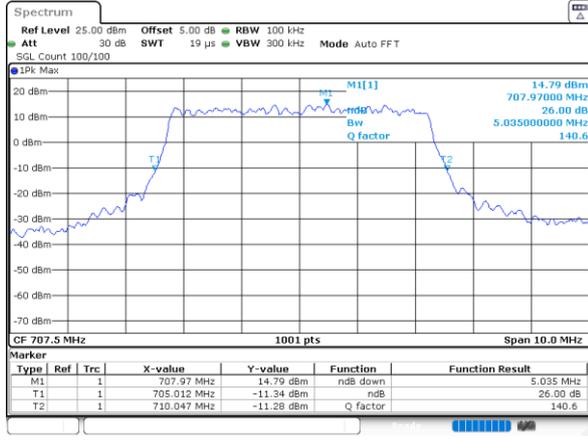
Middle Channel / 3MHz / 16QAM



Date: 21.MAY.2024 06:58:18

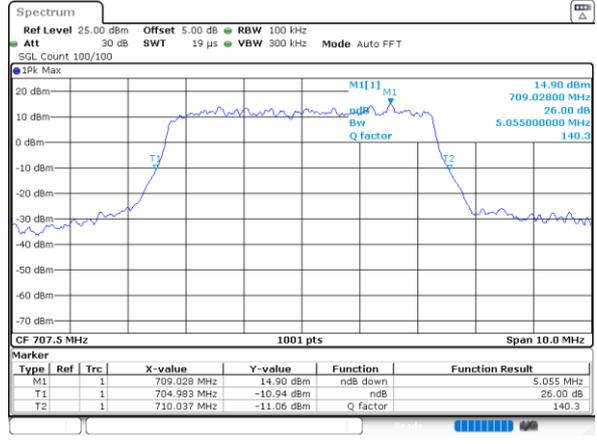
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 21.MAY.2024 07:22:57

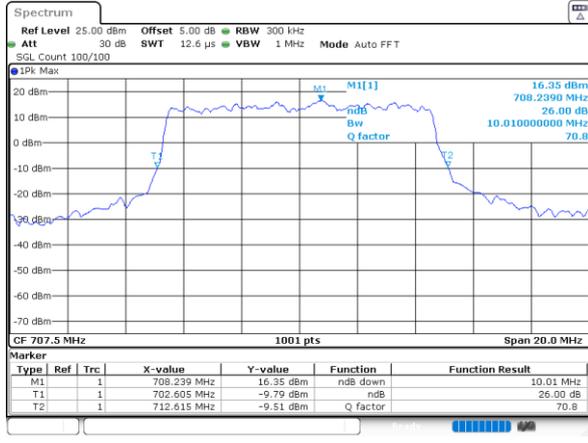
Middle Channel / 5MHz / 16QAM



Date: 21.MAY.2024 07:23:54

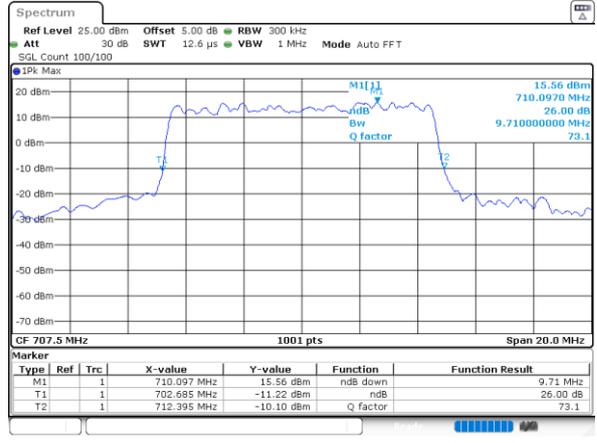
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 21.MAY.2024 08:00:44

Middle Channel / 10MHz / 16QAM

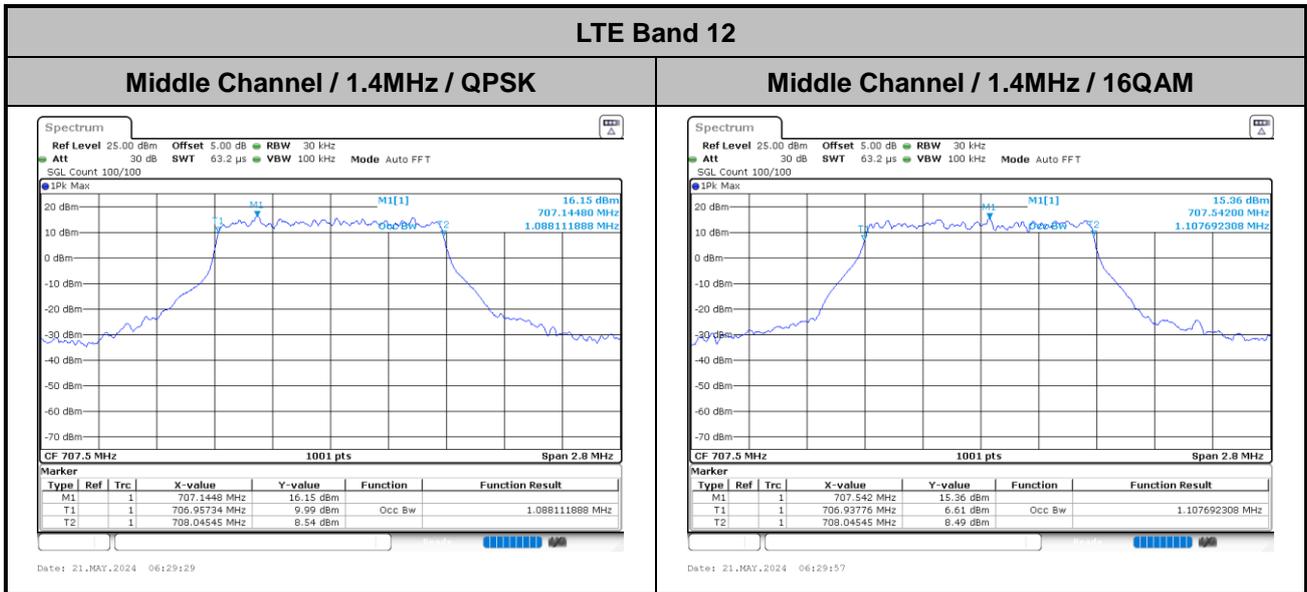


Date: 21.MAY.2024 08:01:13



# Occupied Bandwidth

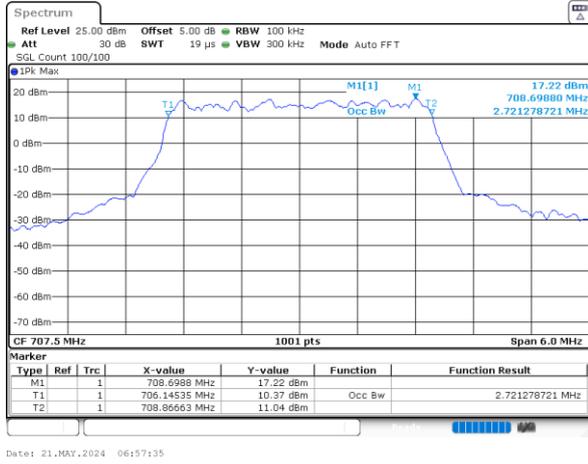
Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.11
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.72	2.73
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.07



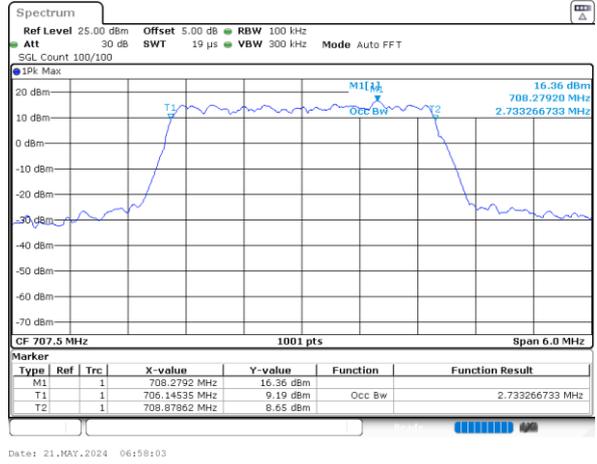


LTE Band 12

Middle Channel / 3MHz / QPSK

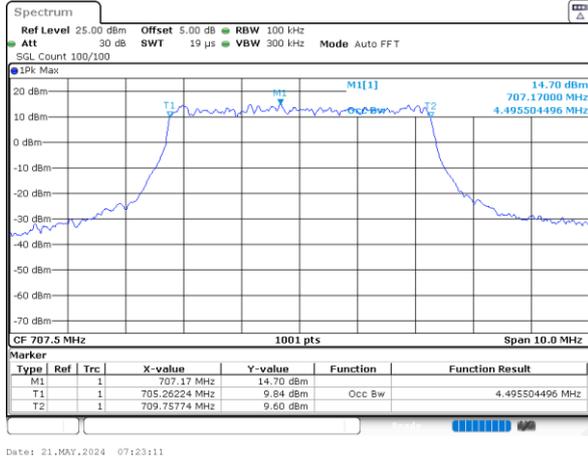


Middle Channel / 3MHz / 16QAM

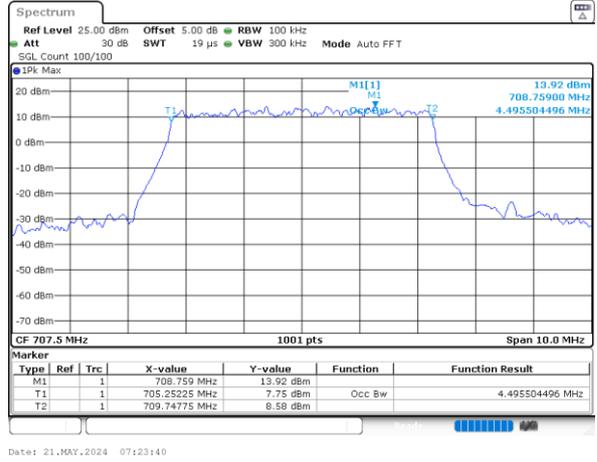


LTE Band 12

Middle Channel / 5MHz / QPSK

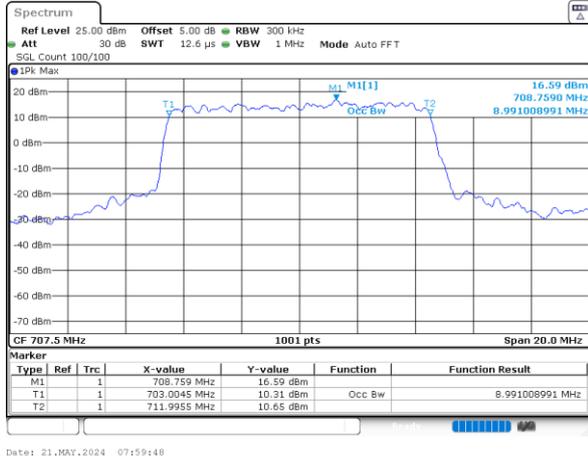


Middle Channel / 5MHz / 16QAM



LTE Band 12

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

