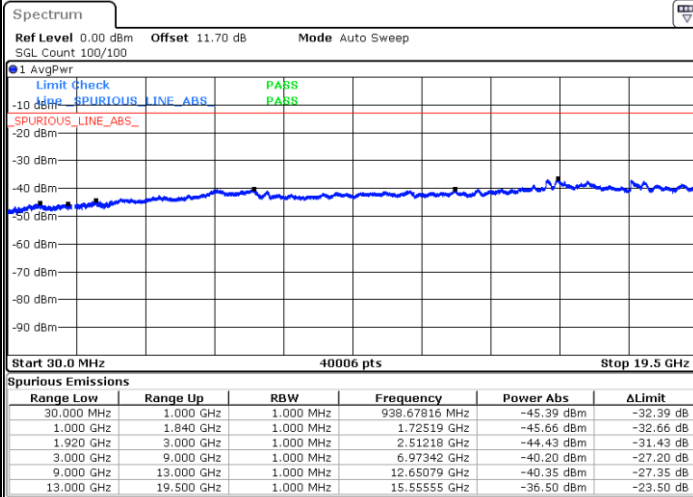


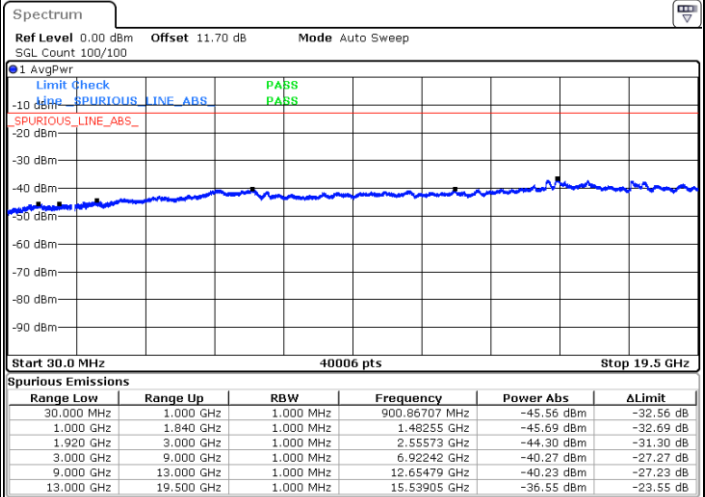
LTE Band 2 / 15MHz

Lowest Channel / QPSK



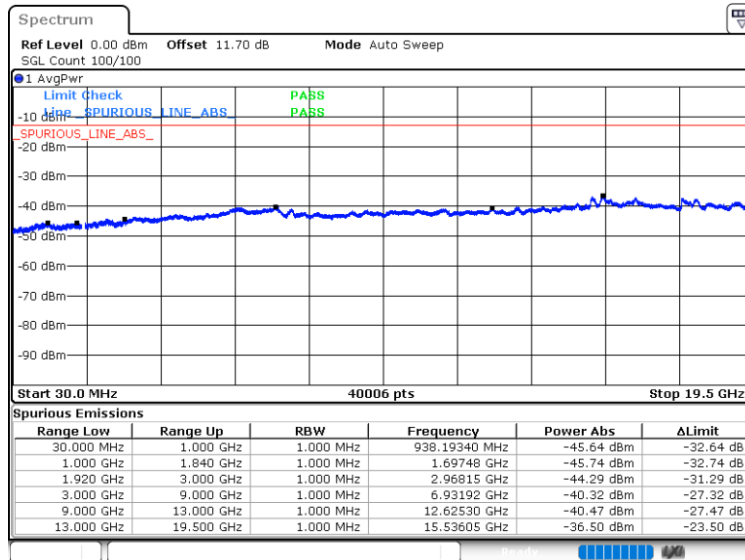
Date: 29.NOV.2024 00:07:45

Middle Channel / QPSK



Date: 29.NOV.2024 00:08:57

Highest Channel / QPSK

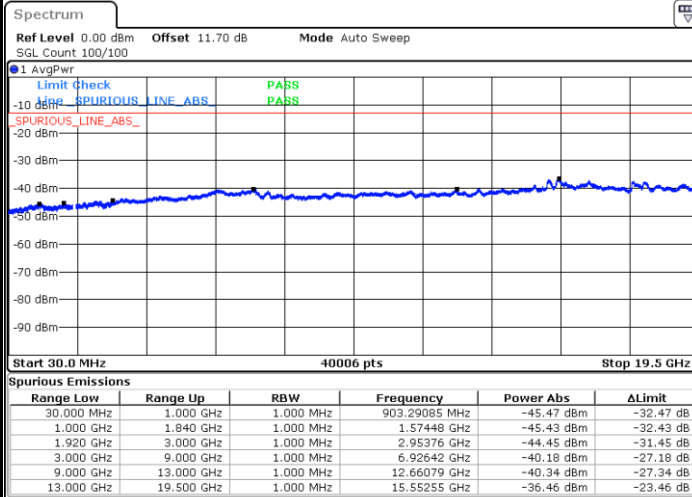


Date: 29.NOV.2024 00:10:09



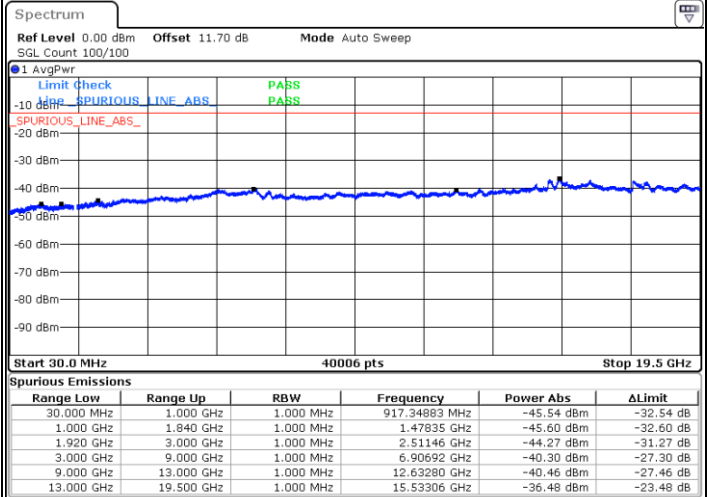
LTE Band 2 / 20MHz

Lowest Channel / QPSK



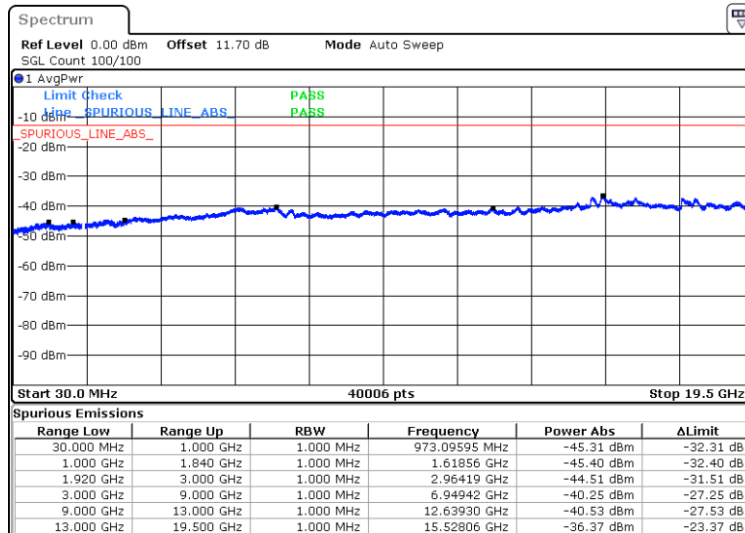
Date: 29.NOV.2024 00:11:24

Middle Channel / QPSK



Date: 29.NOV.2024 00:12:36

Highest Channel / QPSK



Date: 29.NOV.2024 00:13:48

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0029	PASS
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0051	
0	Normal Voltage	0.0031	
20	Maximum Voltage	0.0039	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0023	

Note:

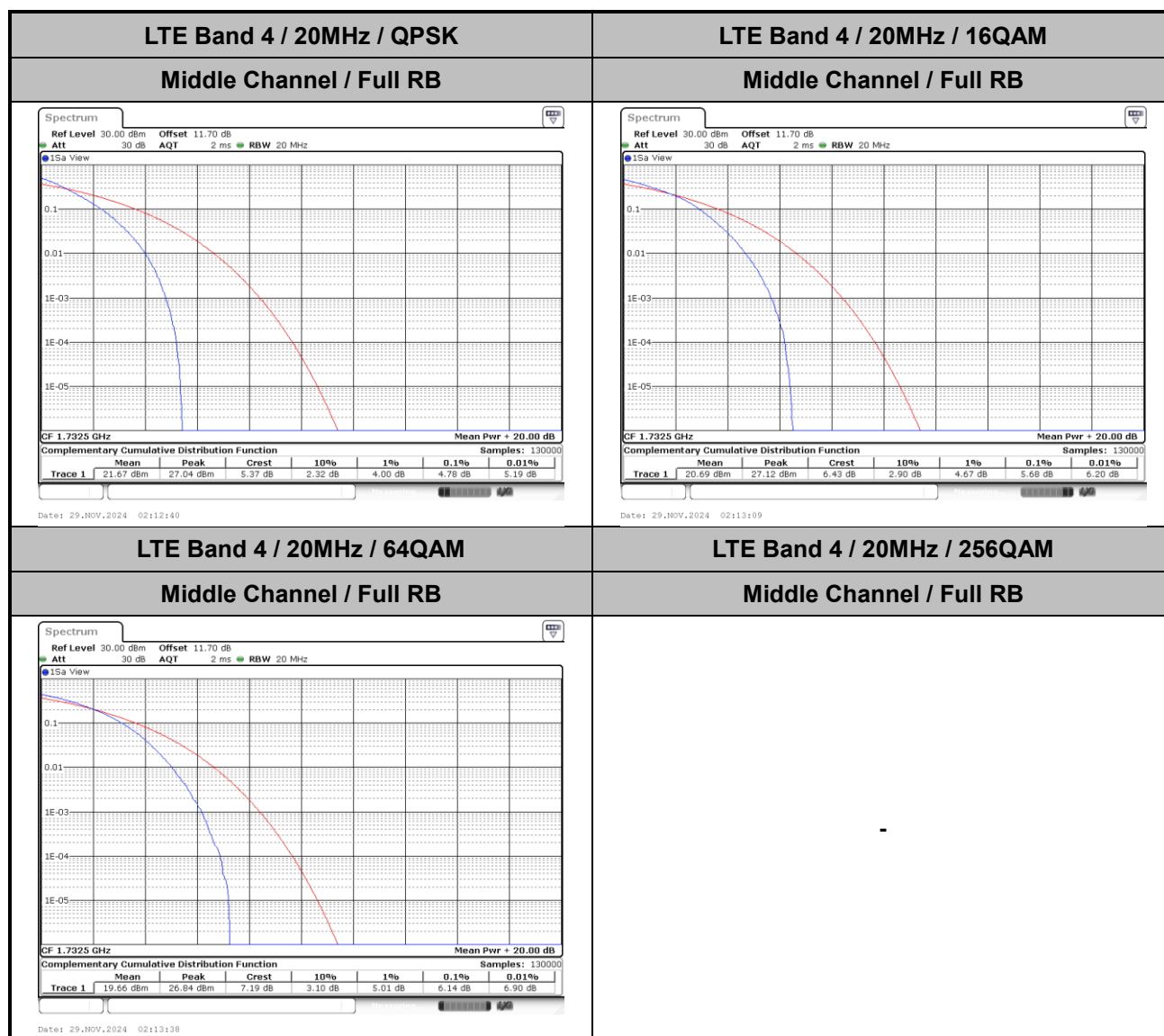
1. Normal Voltage = 3.88 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.78	5.68	6.14	-	PASS



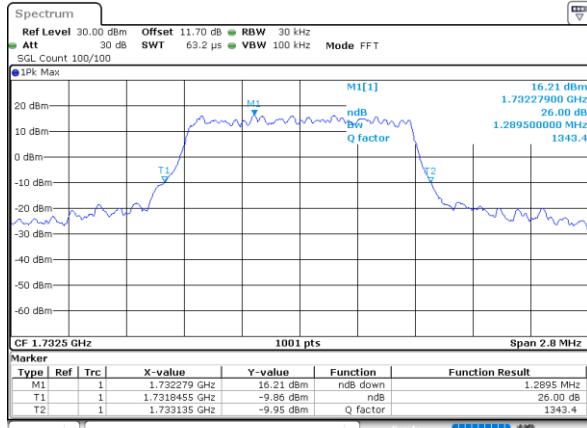
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.27	3.01	3.02	4.96	4.98	9.68	9.71	14.56	14.38	18.94	18.78
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.29	-	3.00	-	4.97	-	9.71	-	14.35	-	18.70	-



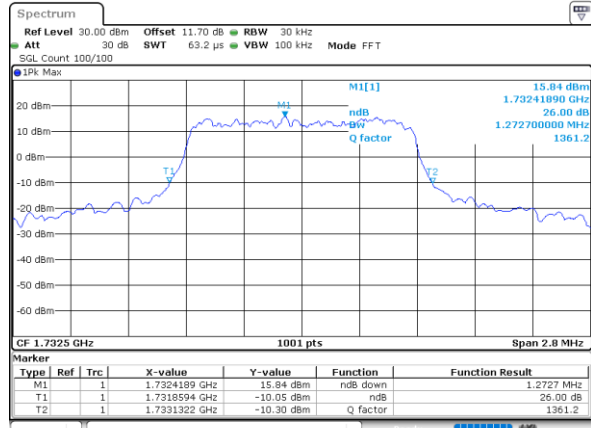
LTE Band 4

Middle Channel / 1.4MHz / QPSK



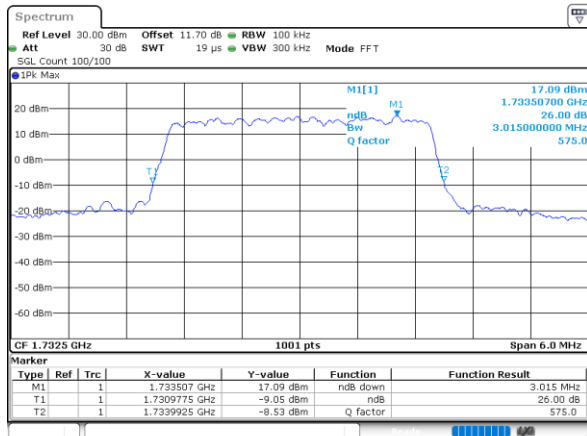
Date: 29.NOV.2024 01:28:35

Middle Channel / 1.4MHz / 16QAM



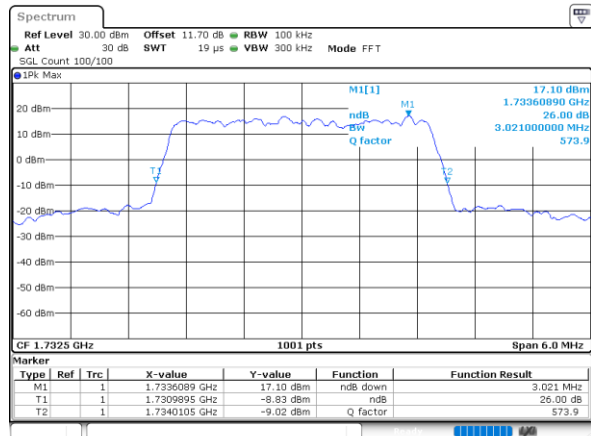
Date: 29.NOV.2024 01:29:02

Middle Channel / 3MHz / QPSK



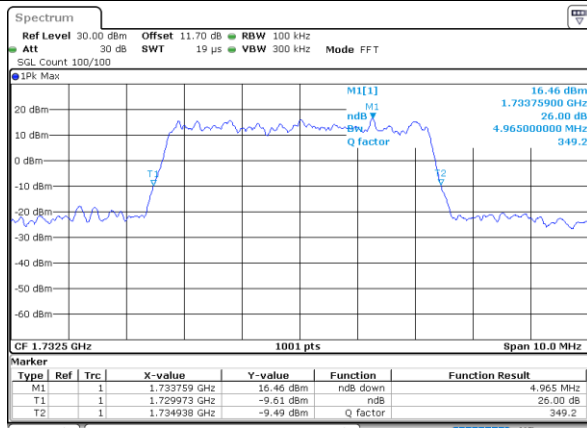
Date: 29.NOV.2024 01:30:03

Middle Channel / 3MHz / 16QAM



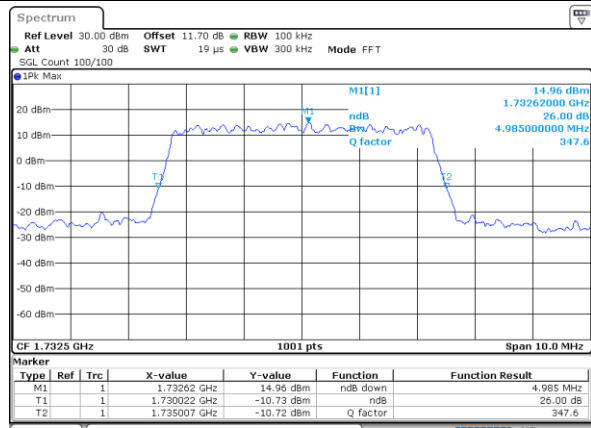
Date: 29.NOV.2024 01:30:31

Middle Channel / 5MHz / QPSK



Date: 29.NOV.2024 01:31:32

Middle Channel / 5MHz / 16QAM

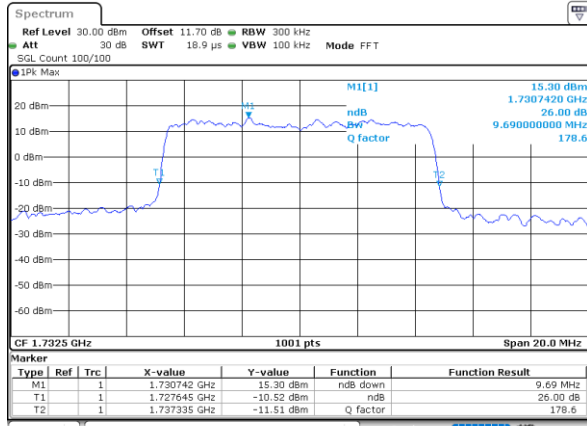


Date: 29.NOV.2024 01:32:00



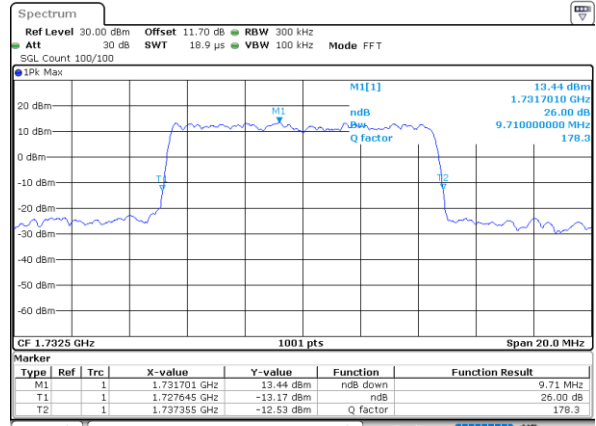
LTE Band 4

Middle Channel / 10MHz / QPSK



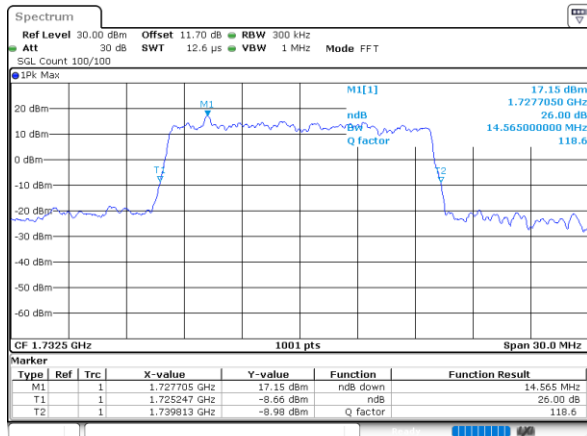
Date: 29.NOV.2024 01:33:01

Middle Channel / 10MHz / 16QAM



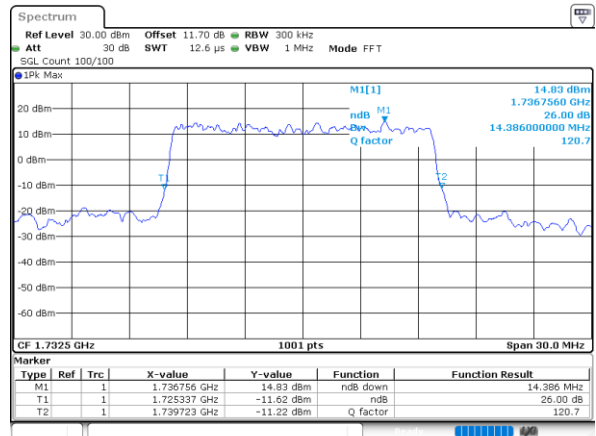
Date: 29.NOV.2024 01:33:28

Middle Channel / 15MHz / QPSK



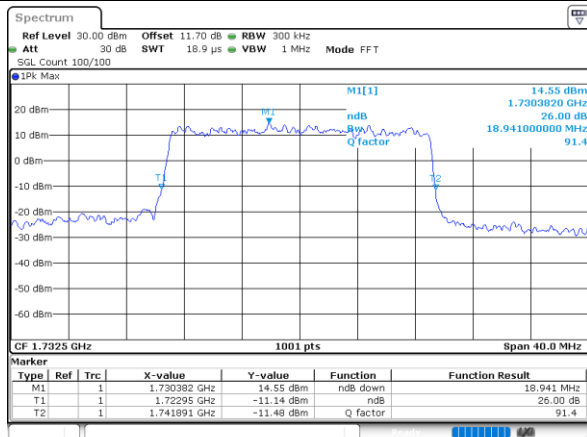
Date: 29.NOV.2024 01:34:29

Middle Channel / 15MHz / 16QAM



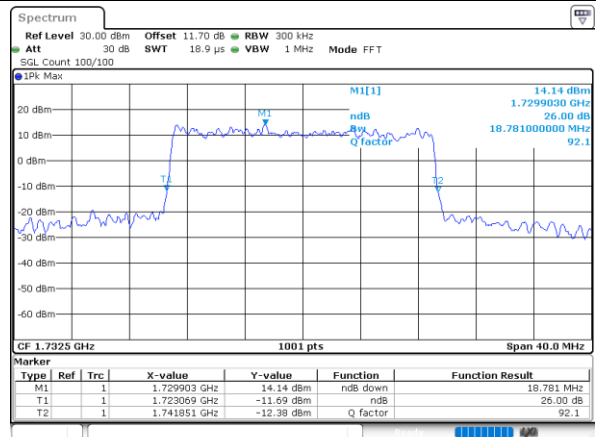
Date: 29.NOV.2024 01:34:57

Middle Channel / 20MHz / QPSK



Date: 29.NOV.2024 01:35:58

Middle Channel / 20MHz / 16QAM

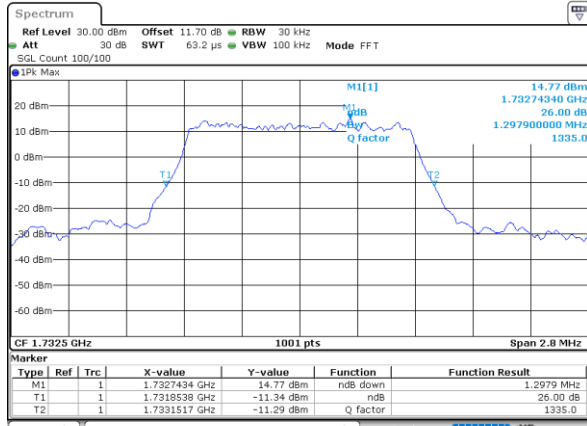


Date: 29.NOV.2024 01:36:25



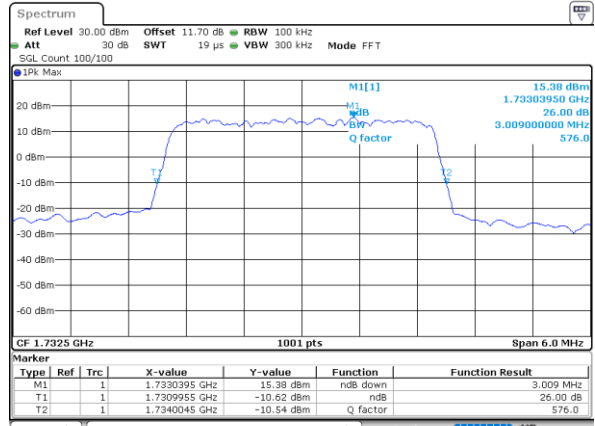
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



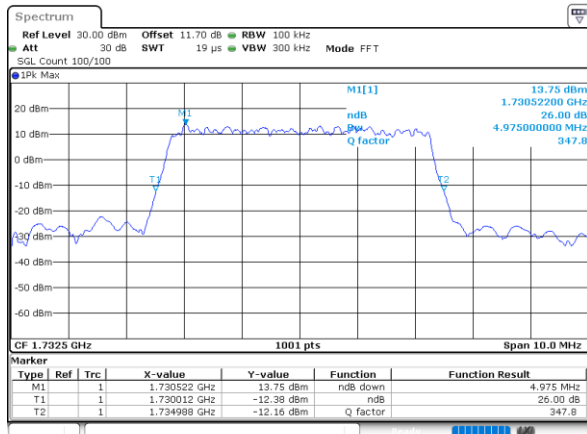
Date: 29.NOV.2024 01:29:30

Middle Channel / 3MHz / 64QAM



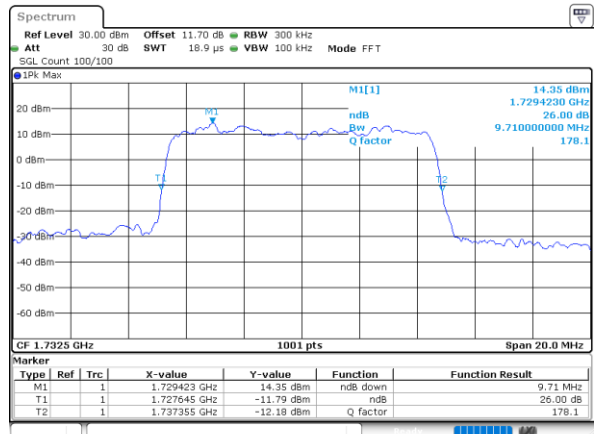
Date: 29.NOV.2024 01:30:59

Middle Channel / 5MHz / 64QAM



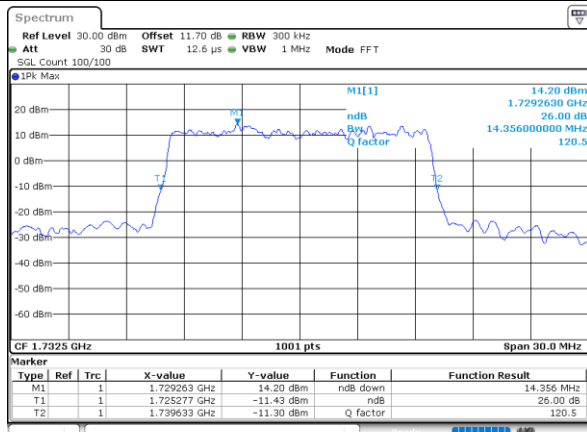
Date: 29.NOV.2024 01:32:27

Middle Channel / 10MHz / 64QAM



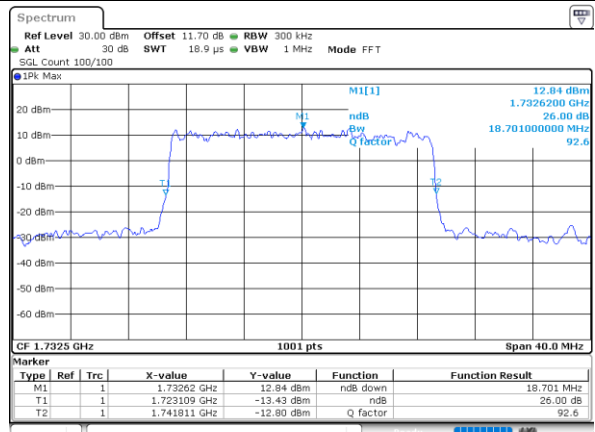
Date: 29.NOV.2024 01:33:56

Middle Channel / 15MHz / 64QAM



Date: 29.NOV.2024 01:35:25

Middle Channel / 20MHz / 64QAM



Date: 29.NOV.2024 01:36:53

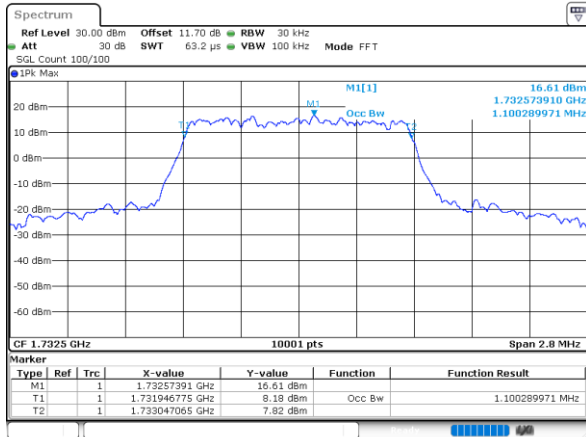
**Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.10	1.08	2.73	2.72	4.50	4.49	9.09	9.04	13.43	13.44	17.85	17.92
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.09	-	2.72	-	4.51	-	9.10	-	13.45	-	17.93	-

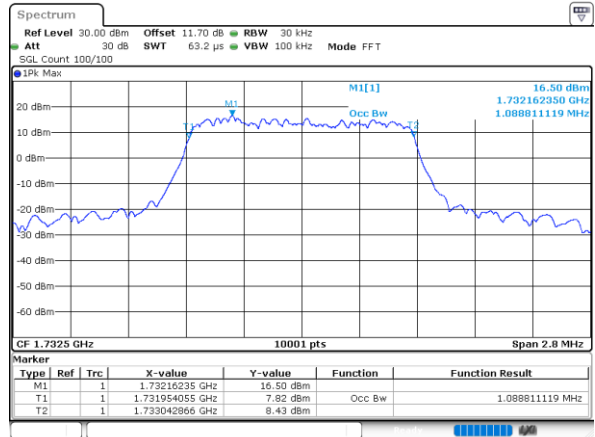


LTE Band 4

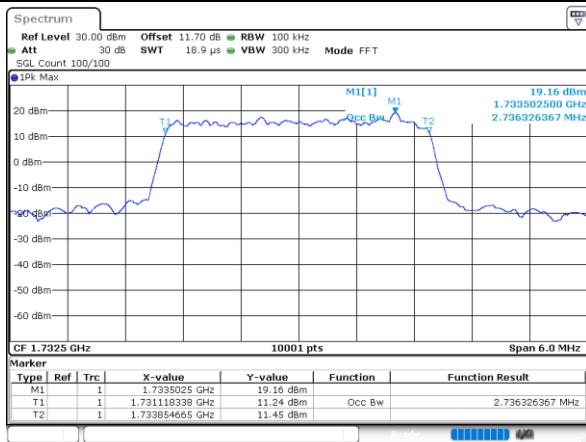
Middle Channel / 1.4MHz / QPSK



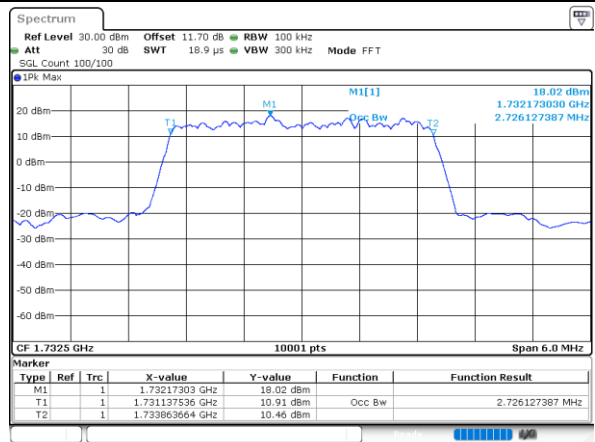
Middle Channel / 1.4MHz / 16QAM



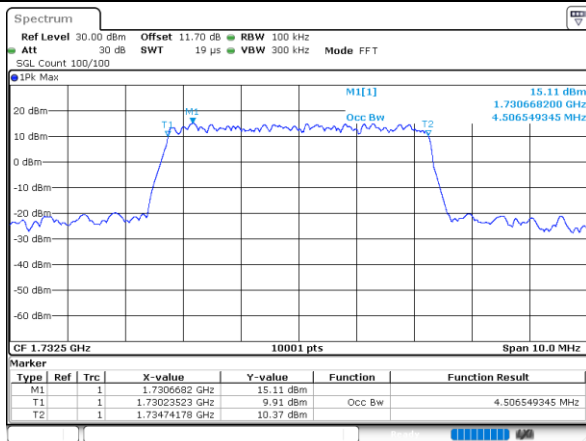
Middle Channel / 3MHz / QPSK



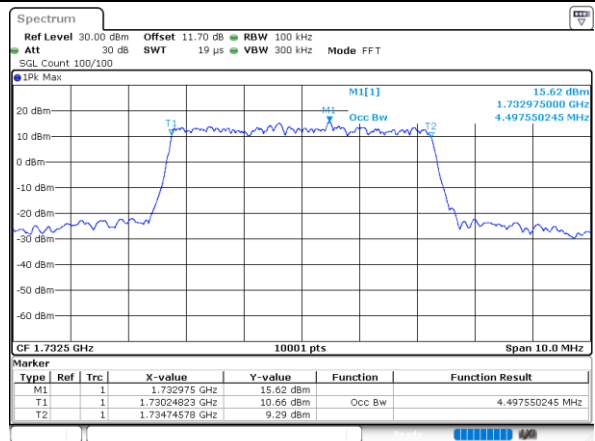
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



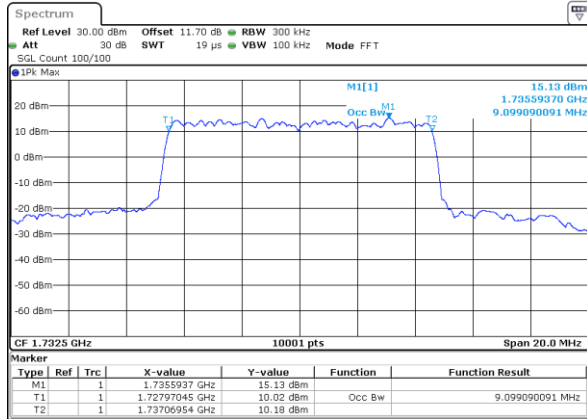
Middle Channel / 5MHz / 16QAM





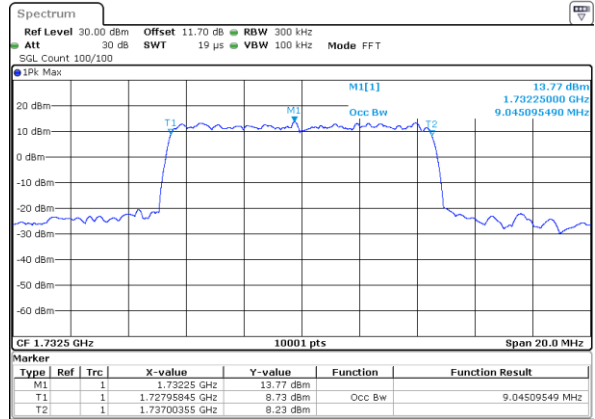
LTE Band 4

Middle Channel / 10MHz / QPSK



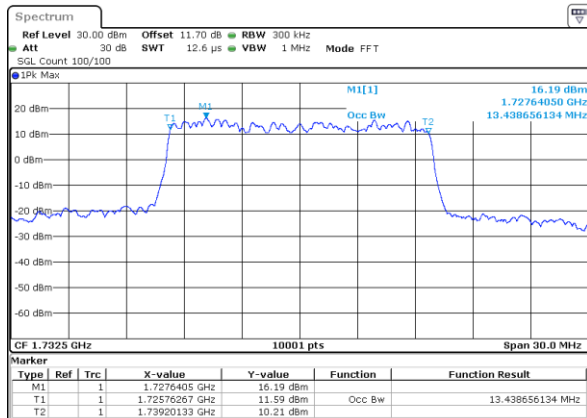
Date: 29.NOV.2024 01:24:09

Middle Channel / 10MHz / 16QAM



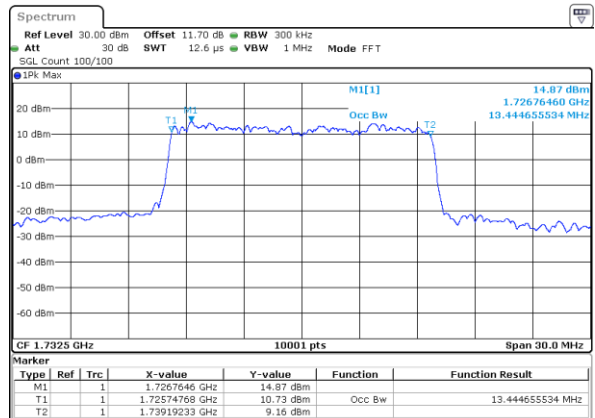
Date: 29.NOV.2024 01:24:36

Middle Channel / 15MHz / QPSK



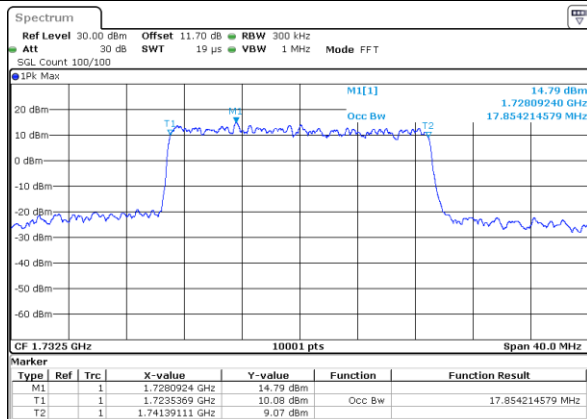
Date: 29.NOV.2024 01:25:37

Middle Channel / 15MHz / 16QAM



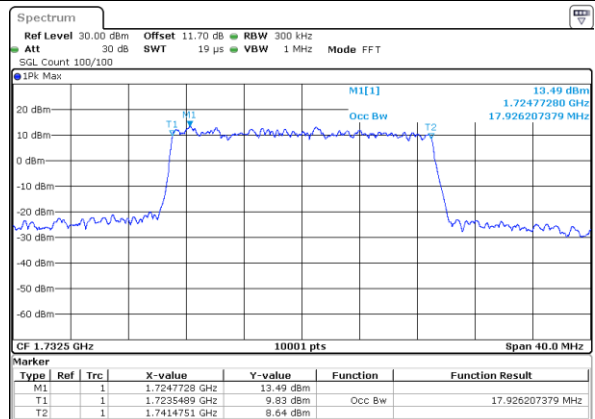
Date: 29.NOV.2024 01:26:05

Middle Channel / 20MHz / QPSK



Date: 29.NOV.2024 01:27:06

Middle Channel / 20MHz / 16QAM

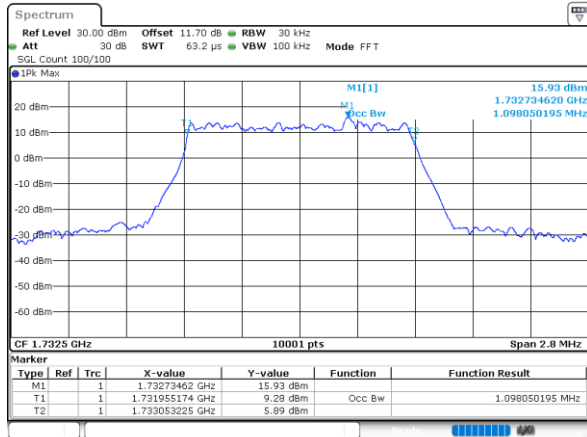


Date: 29.NOV.2024 01:27:34

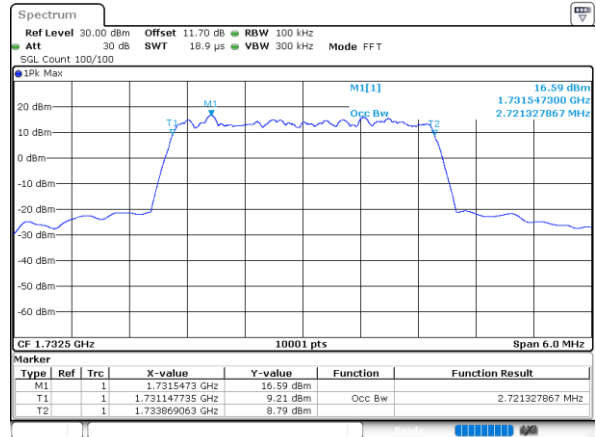


LTE Band 4

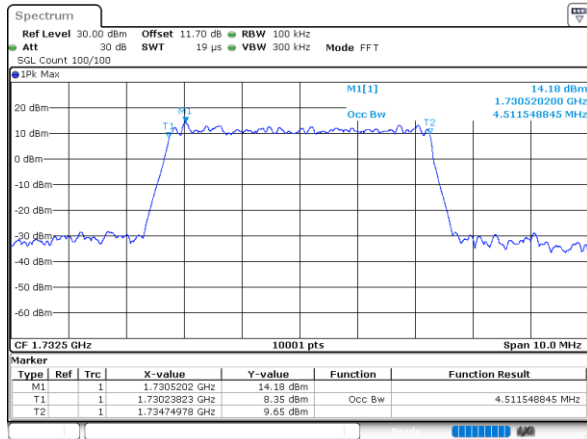
Middle Channel / 1.4MHz / 64QAM



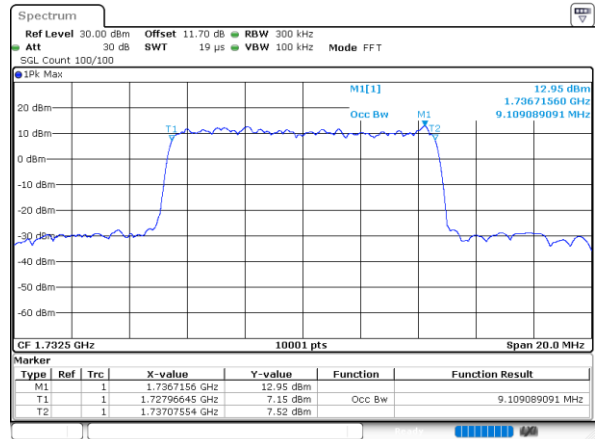
Middle Channel / 3MHz / 64QAM



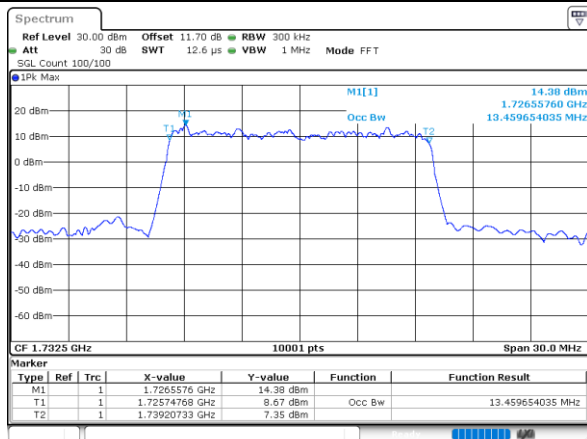
Middle Channel / 5MHz / 64QAM



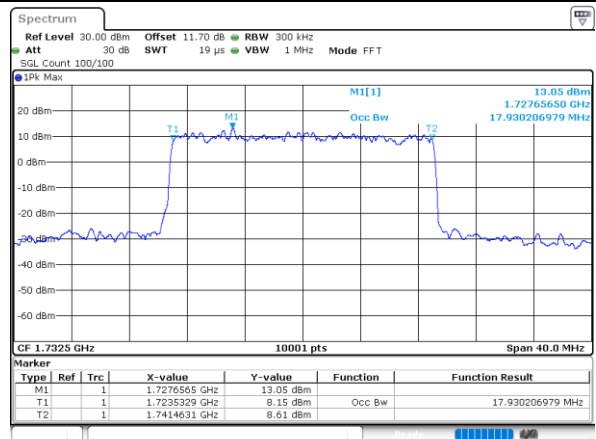
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

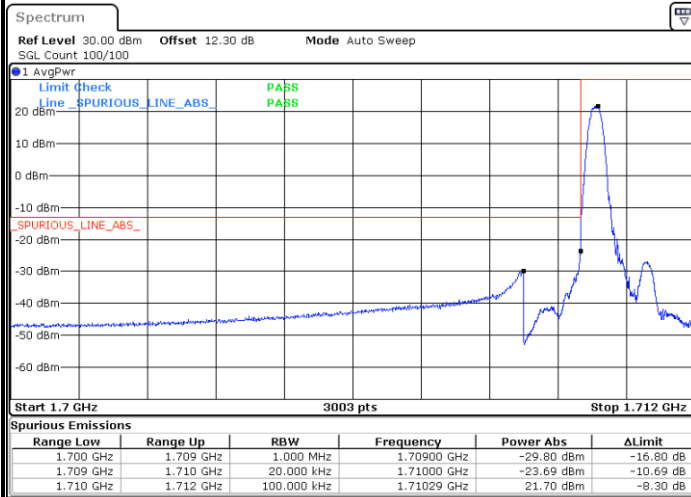




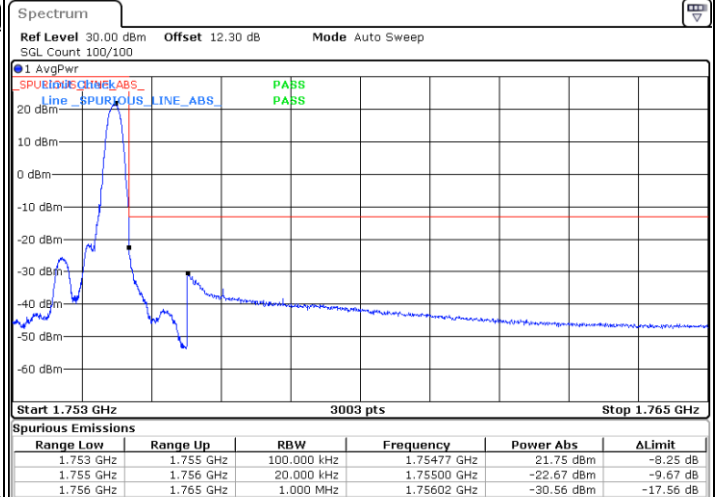
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

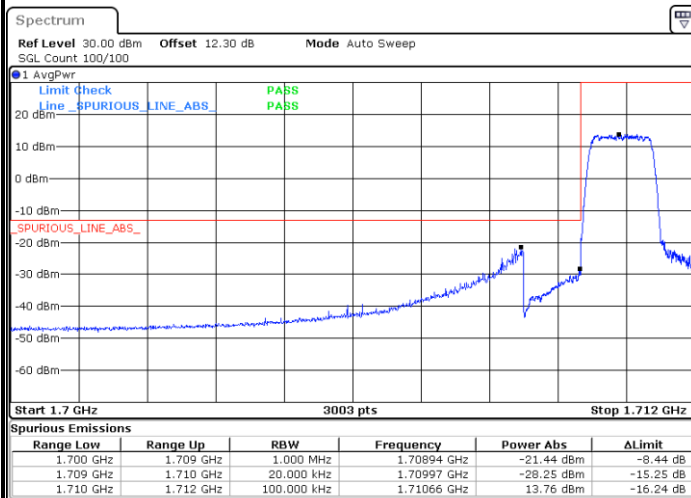
Lowest Band Edge / 1RB



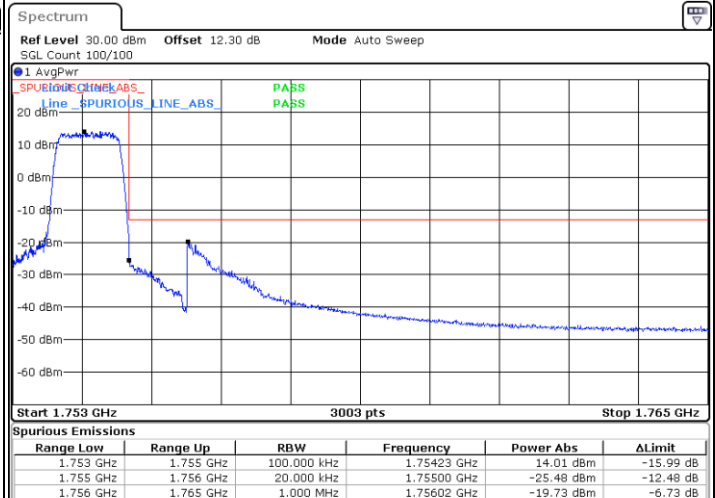
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



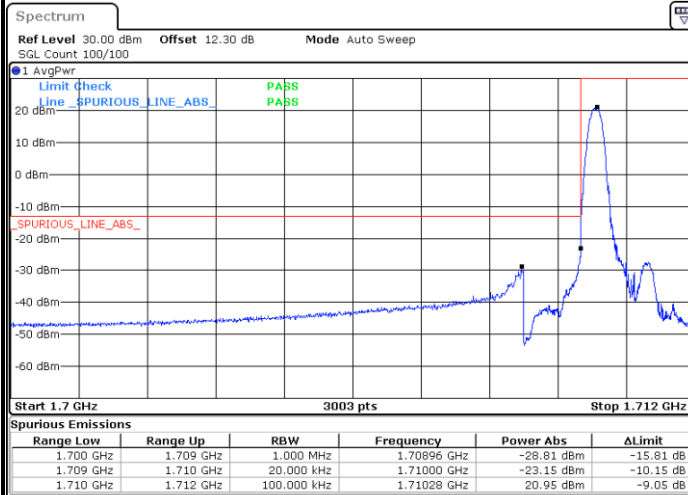
Highest Band Edge / Full RB



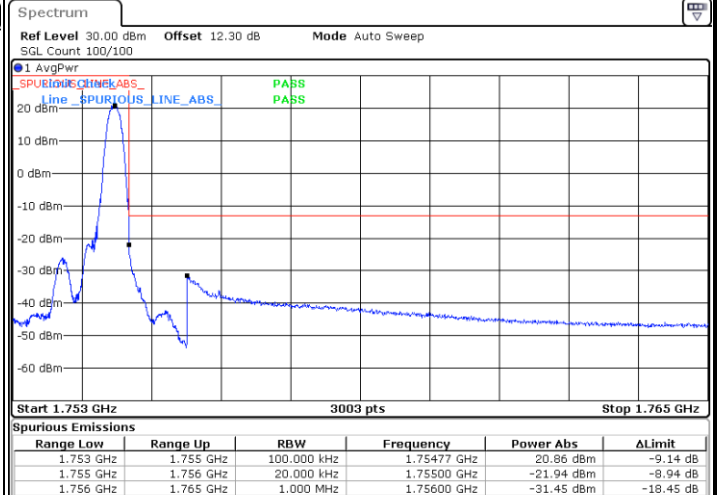


LTE Band 4 / 1.4MHz / 16QAM

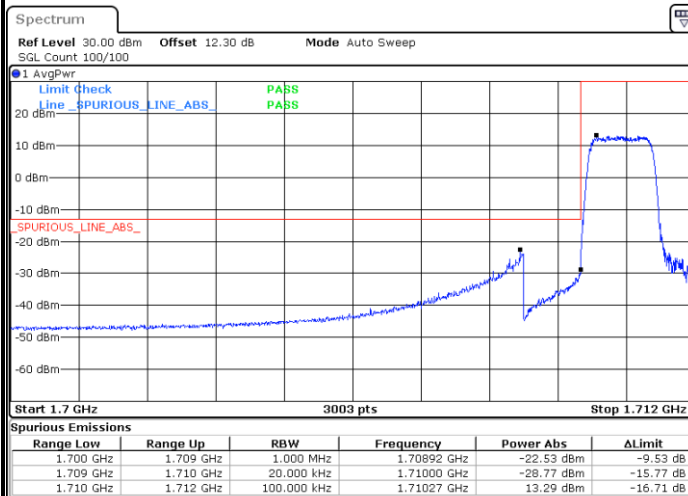
Lowest Band Edge / 1 RB



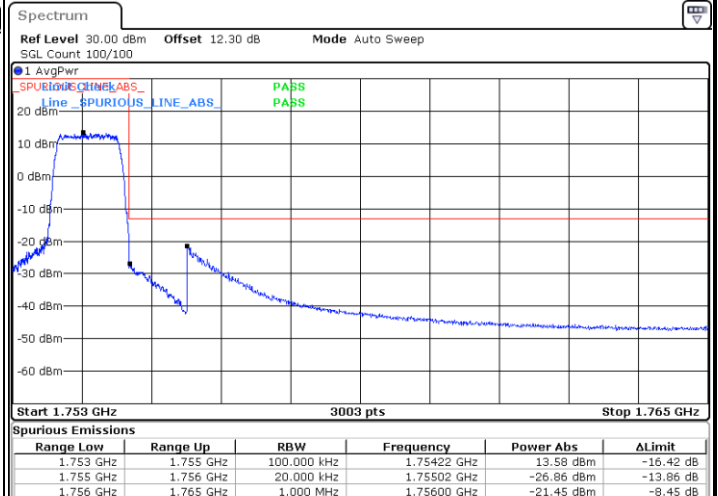
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



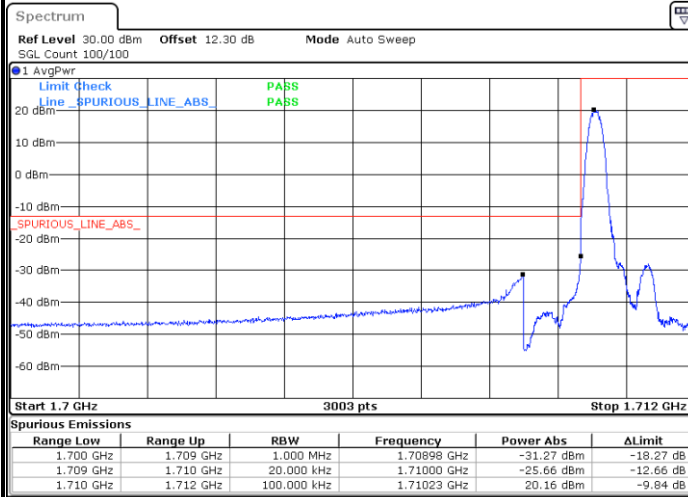
Highest Band Edge / Full RB



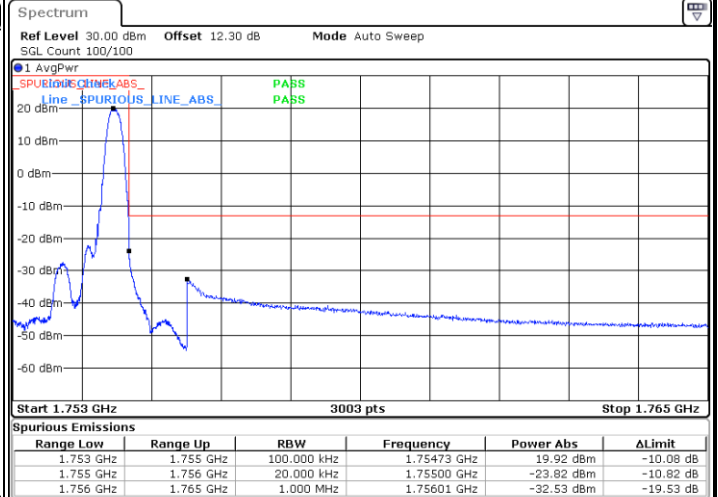


LTE Band 4 / 1.4MHz / 64QAM

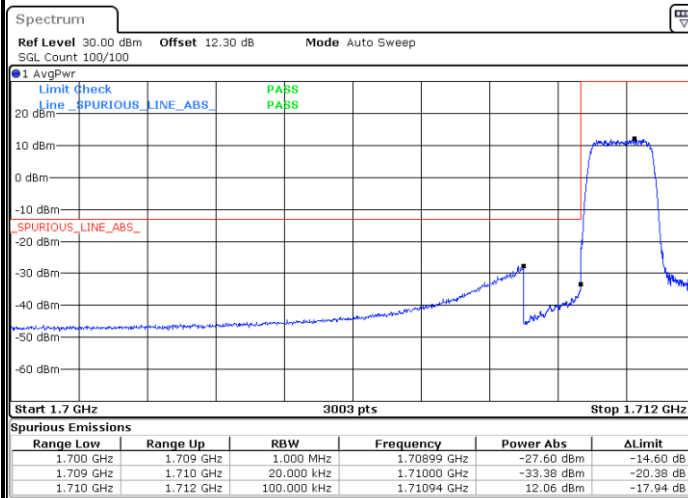
Lowest Band Edge / 1 RB



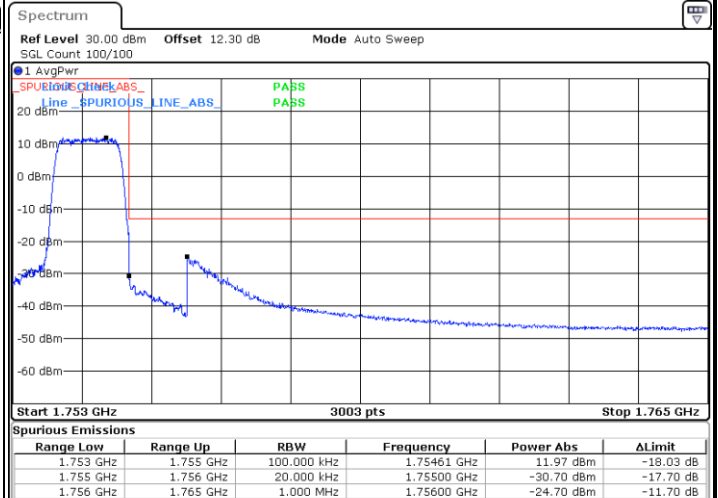
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



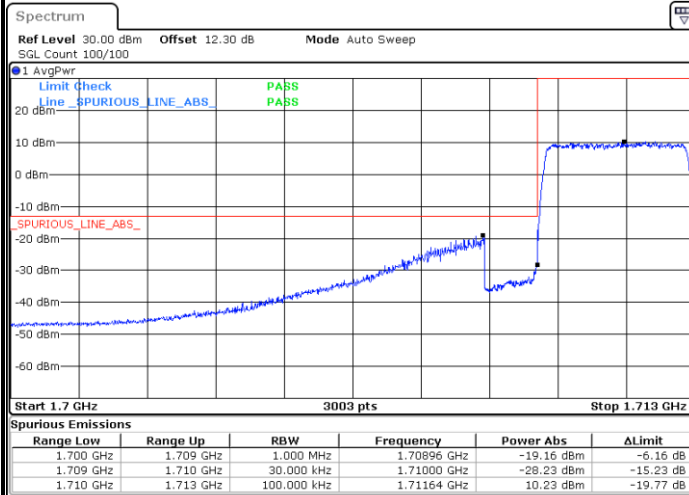
Highest Band Edge / Full RB



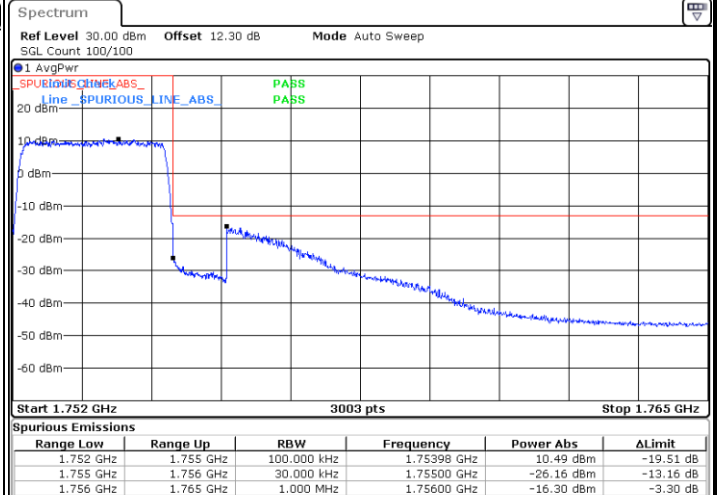


LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / Full RB

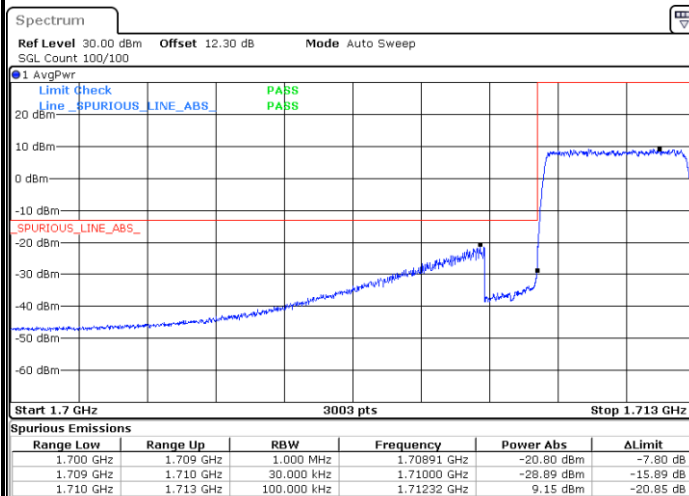


Highest Band Edge / Full RB

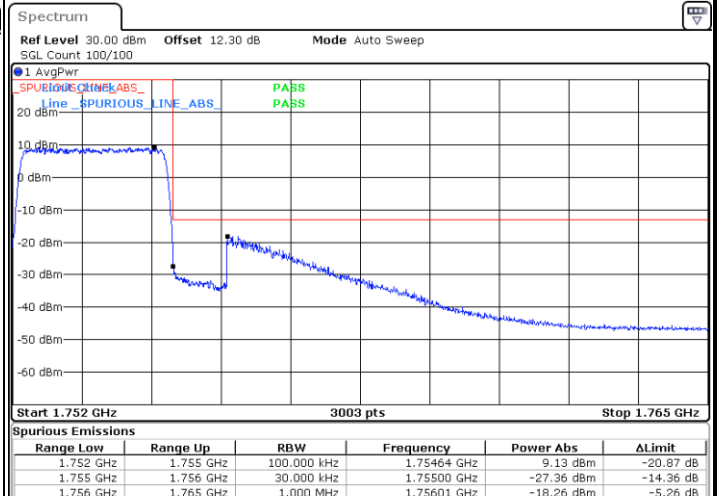


LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / Full RB



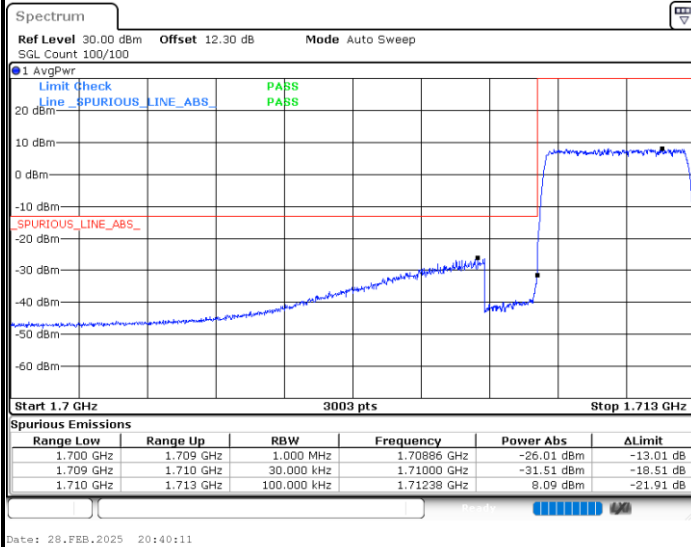
Highest Band Edge / Full RB



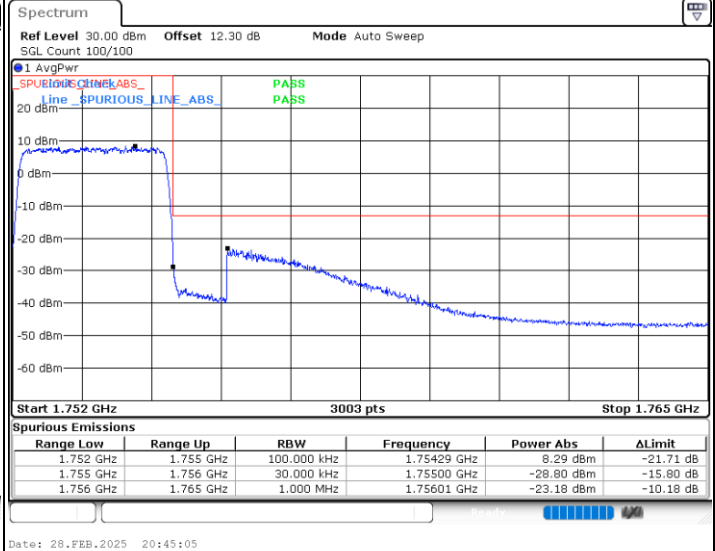


LTE Band 4 / 3MHz / 64QAM

Lowest Band Edge / Full RB

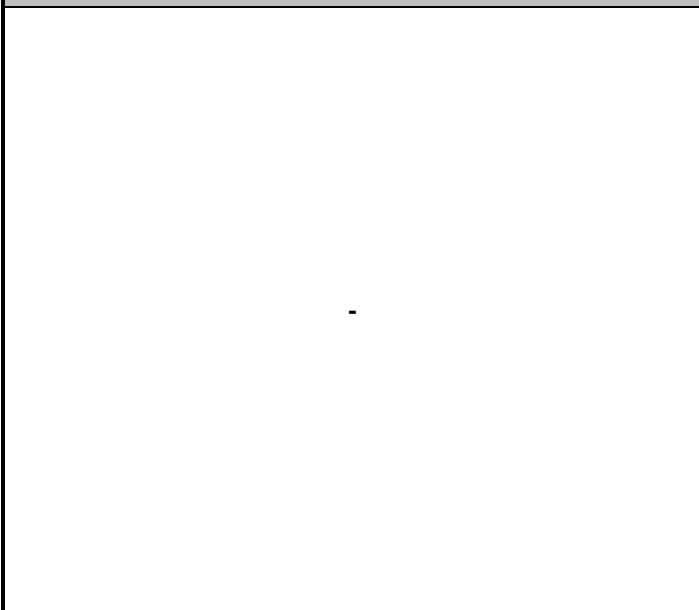


Highest Band Edge / Full RB

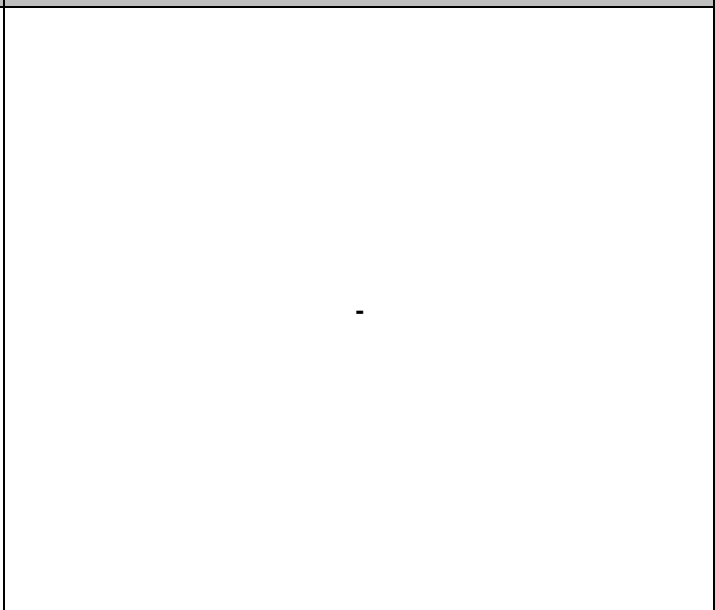


LTE Band 4 / 3MHz / 256QAM

Lowest Band Edge / Full RB



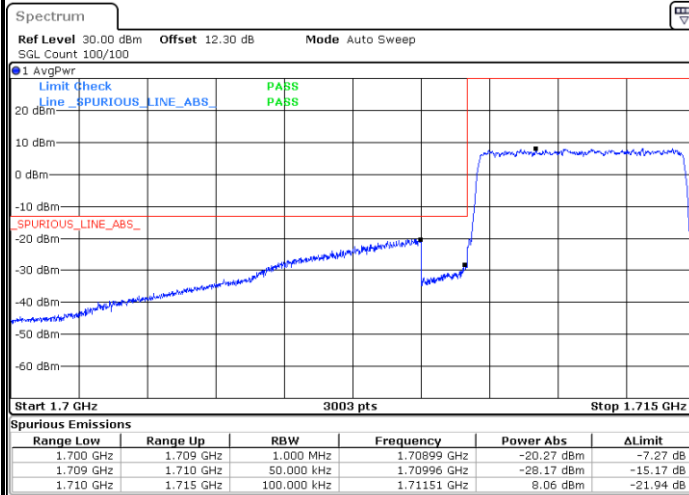
Highest Band Edge / Full RB



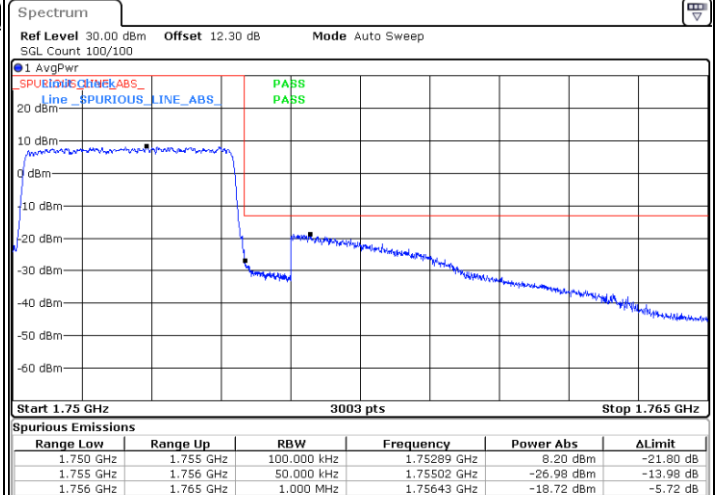


LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB

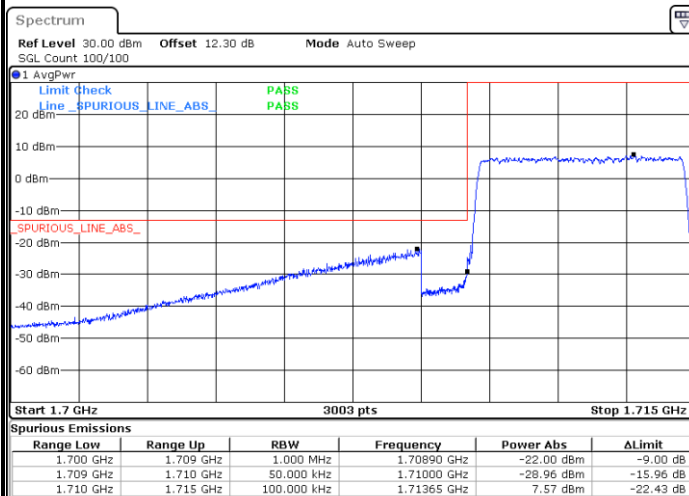


Highest Band Edge / Full RB

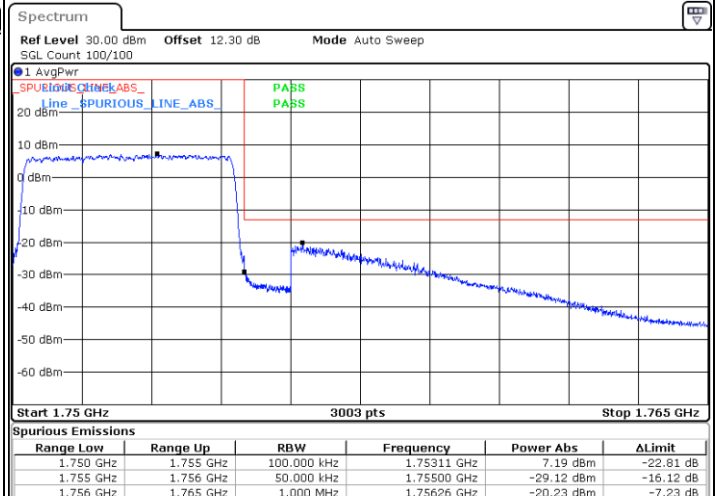


LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



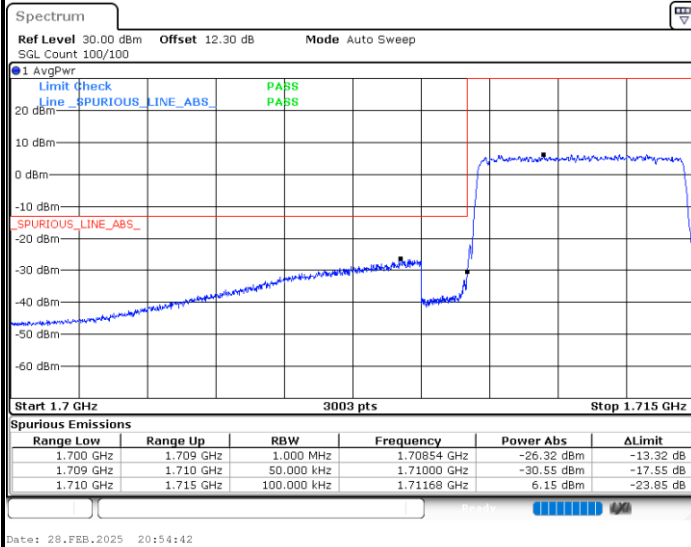
Highest Band Edge / Full RB



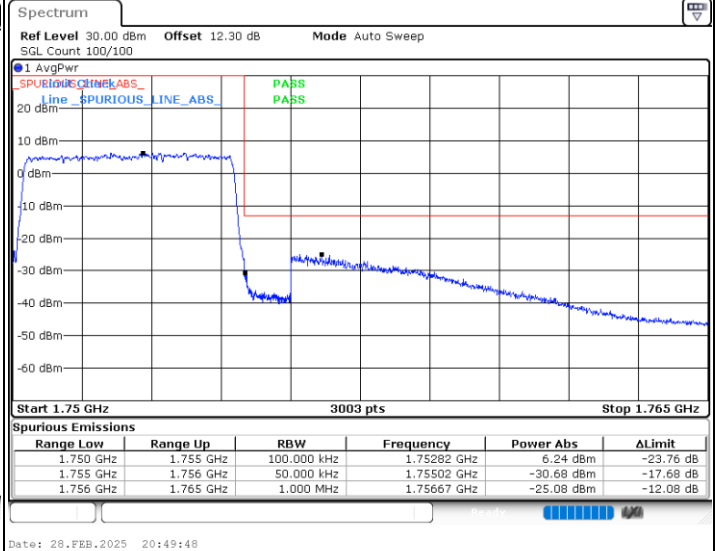


LTE Band 4 / 5MHz / 64QAM

Lowest Band Edge / Full RB

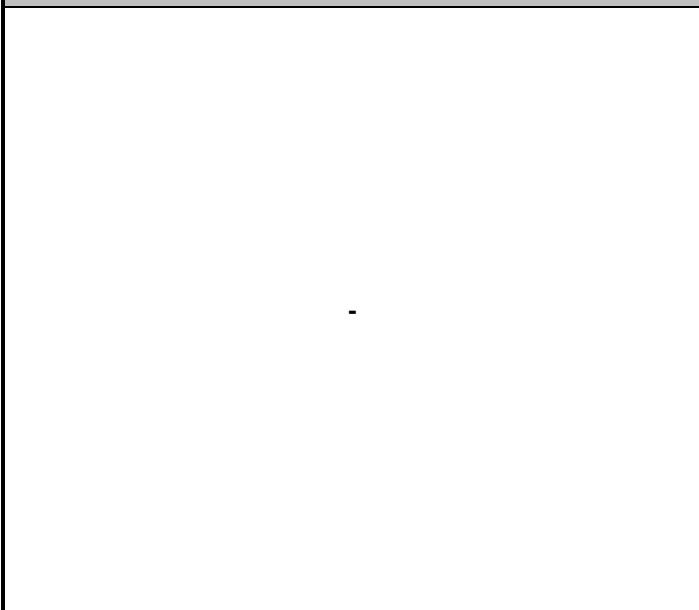


Highest Band Edge / Full RB

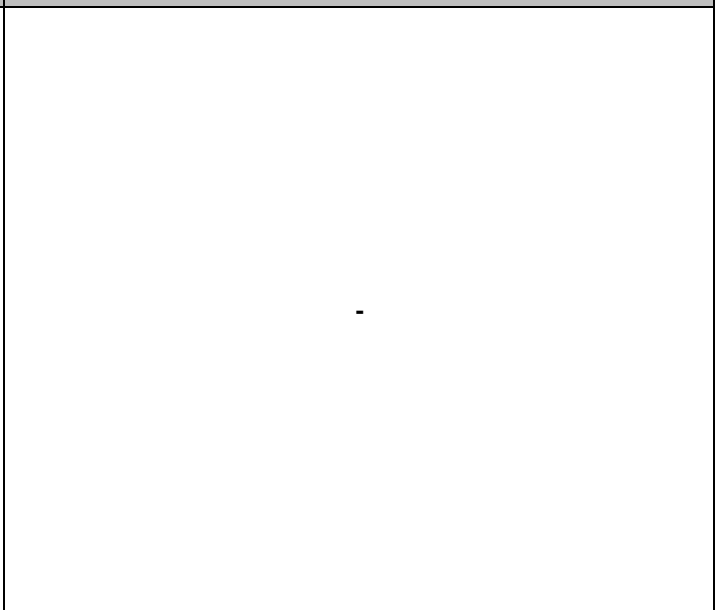


LTE Band 4 / 5MHz / 256QAM

Lowest Band Edge / Full RB



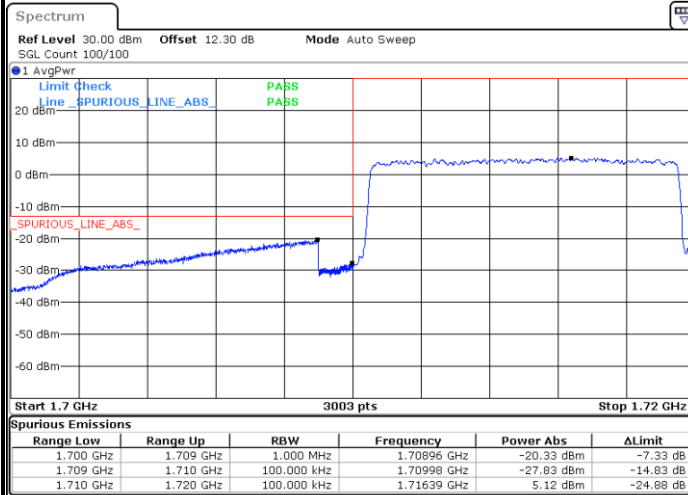
Highest Band Edge / Full RB



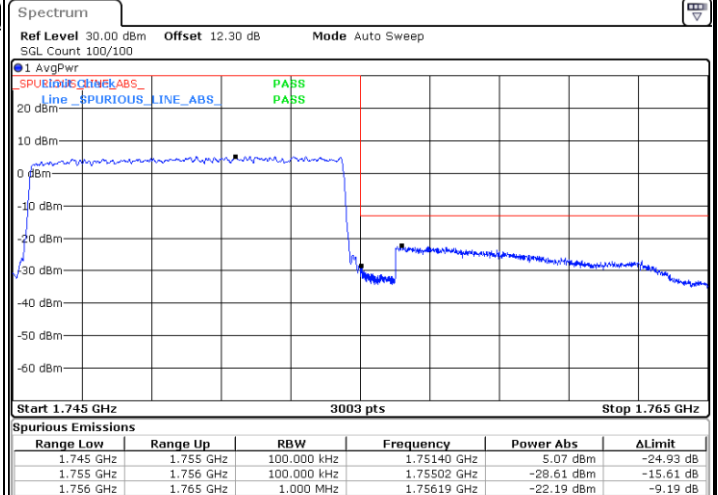


LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB

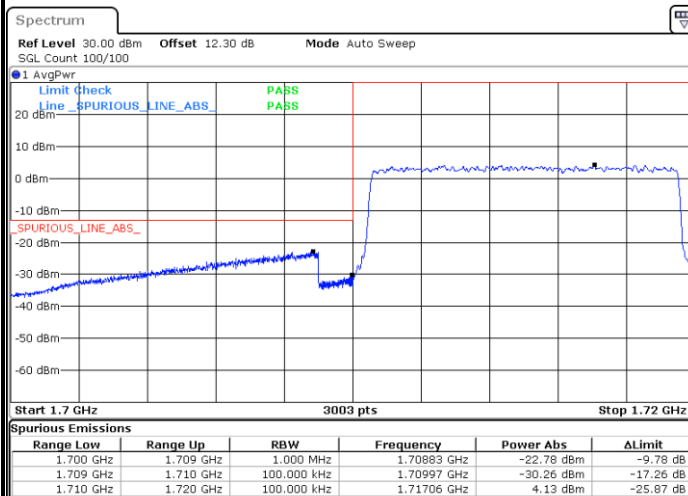


Highest Band Edge / Full RB

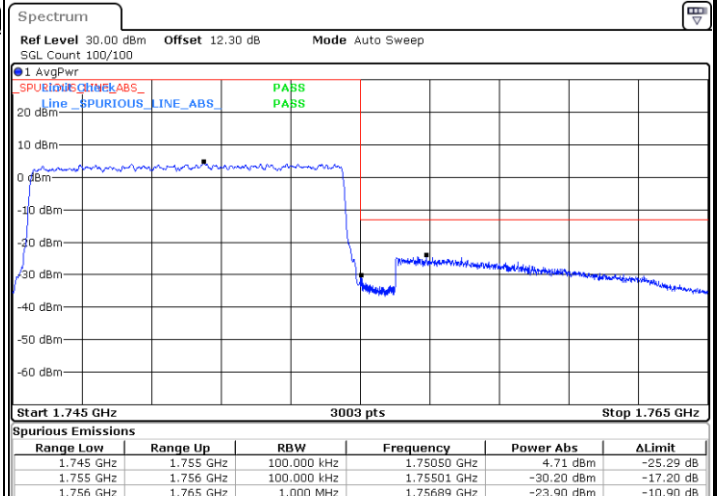


LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / Full RB



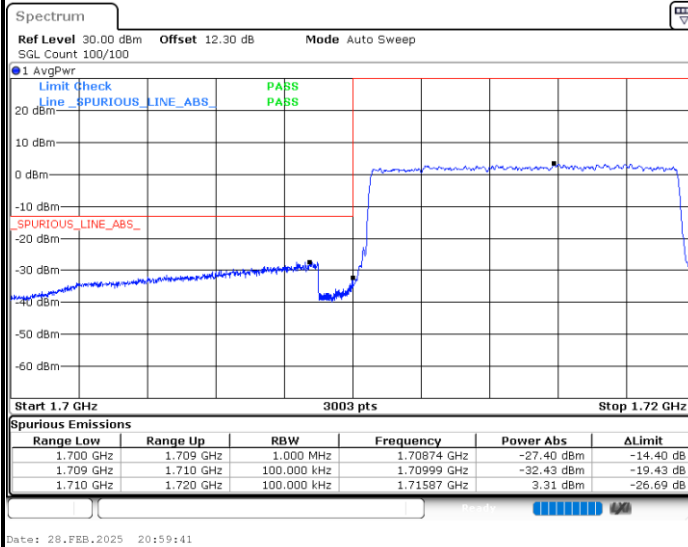
Highest Band Edge / Full RB



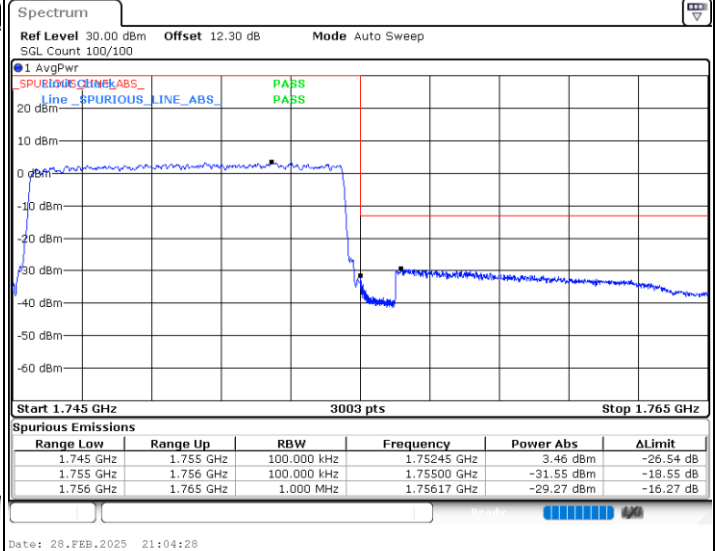


LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / Full RB

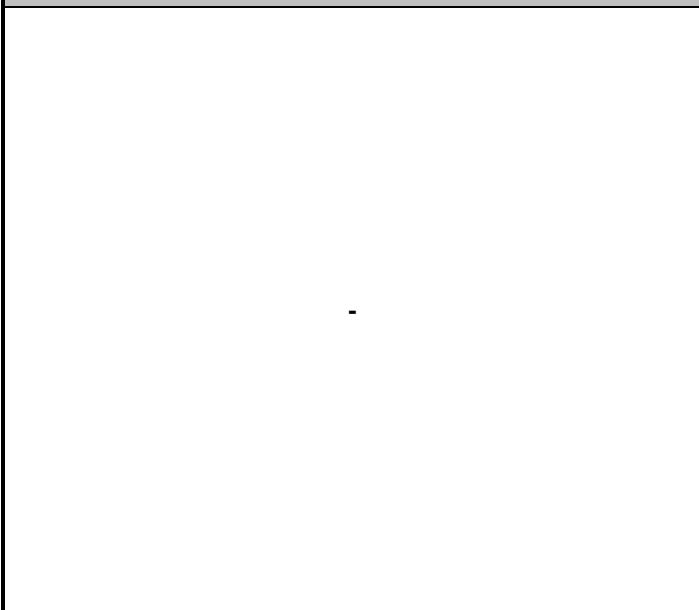


Highest Band Edge / Full RB

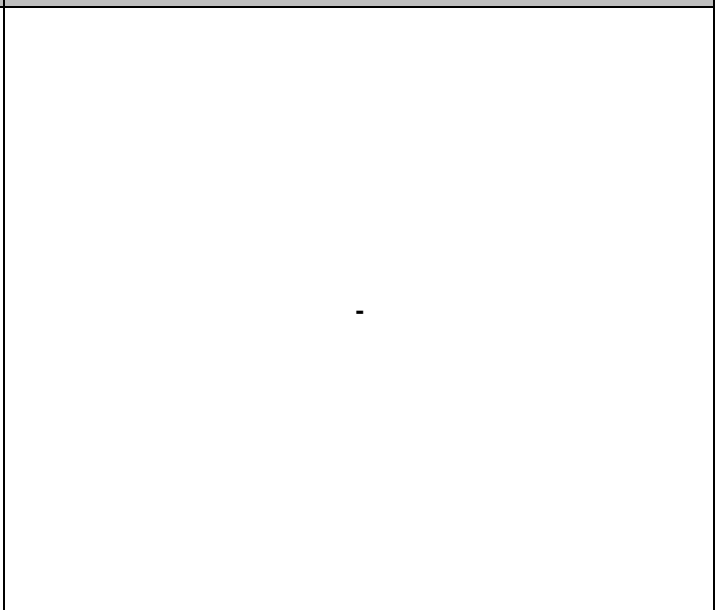


LTE Band 4 / 10MHz / 256QAM

Lowest Band Edge / Full RB



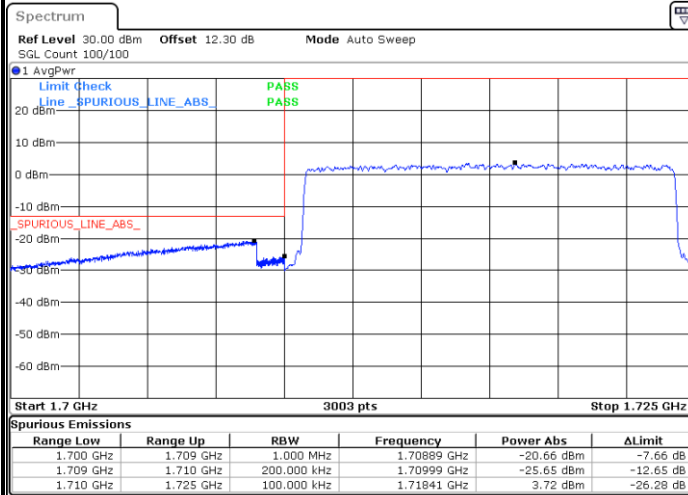
Highest Band Edge / Full RB



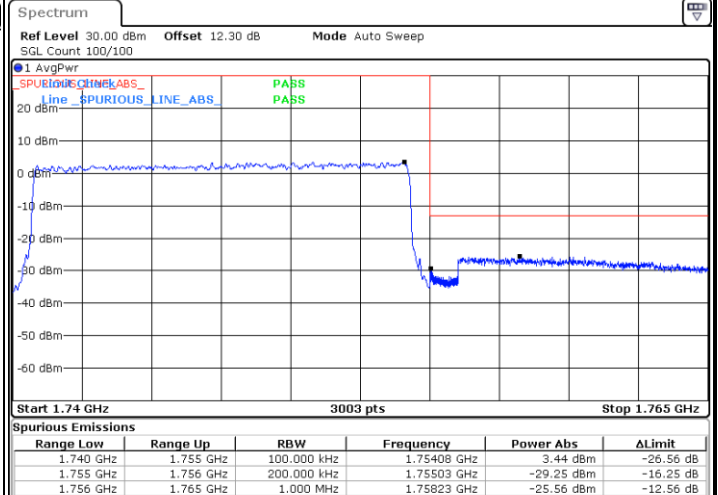


LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB

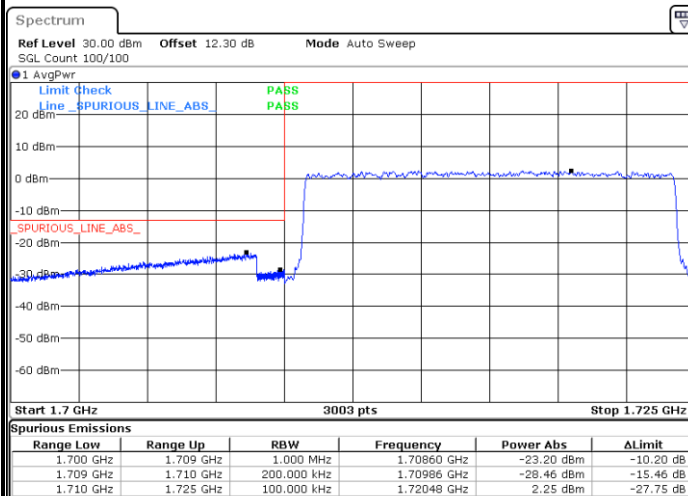


Highest Band Edge / Full RB

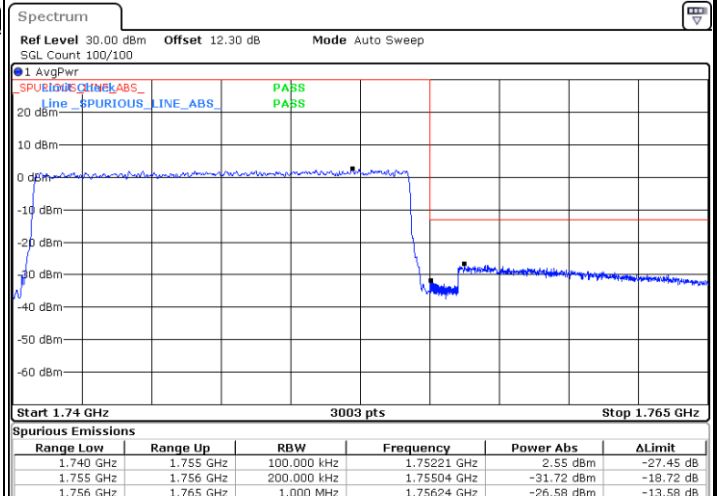


LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / Full RB



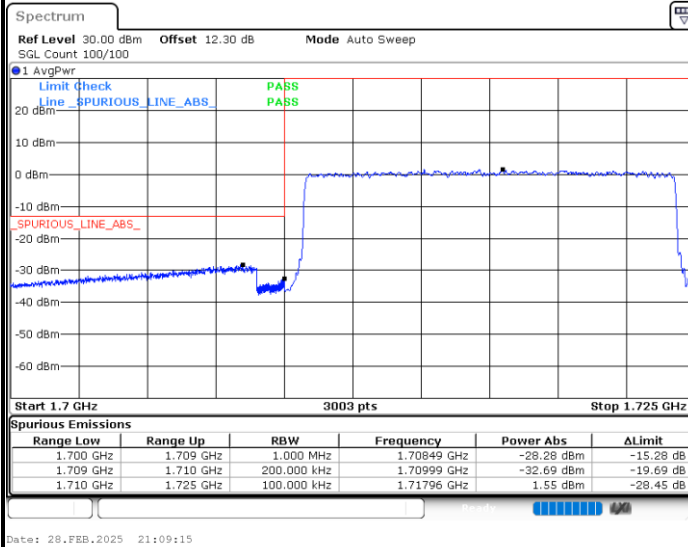
Highest Band Edge / Full RB



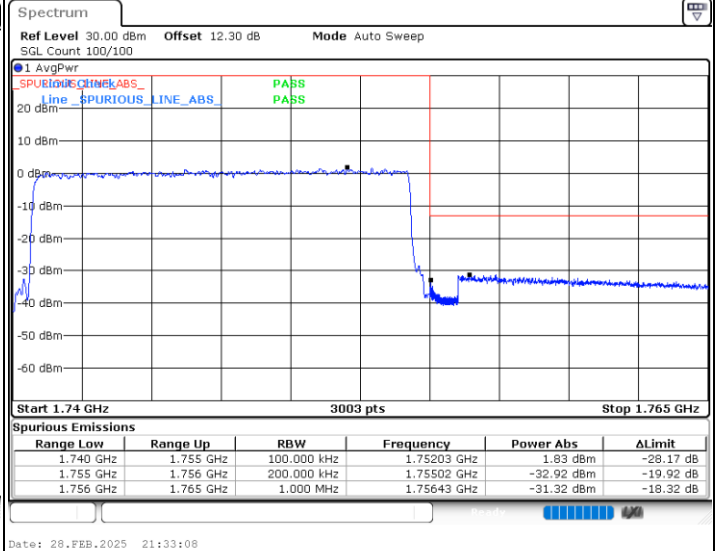


LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / Full RB

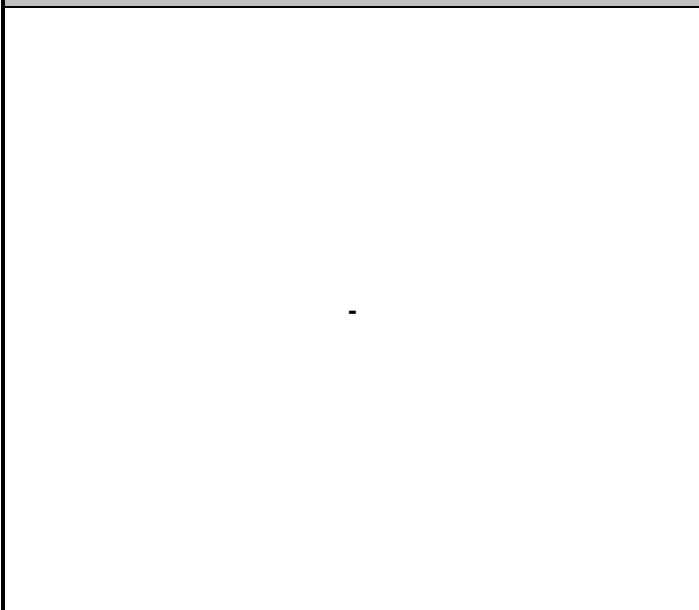


Highest Band Edge / Full RB

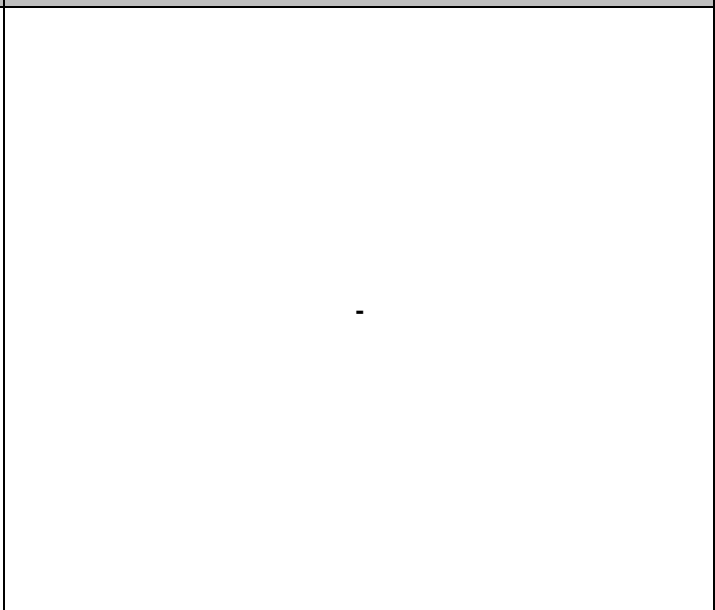


LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / Full RB



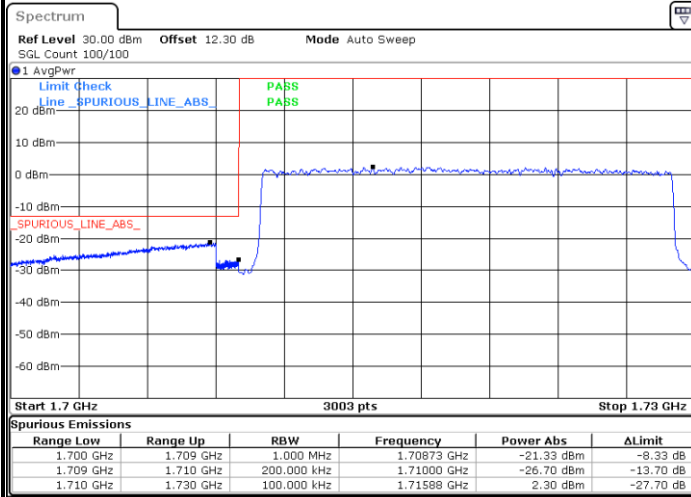
Highest Band Edge / Full RB



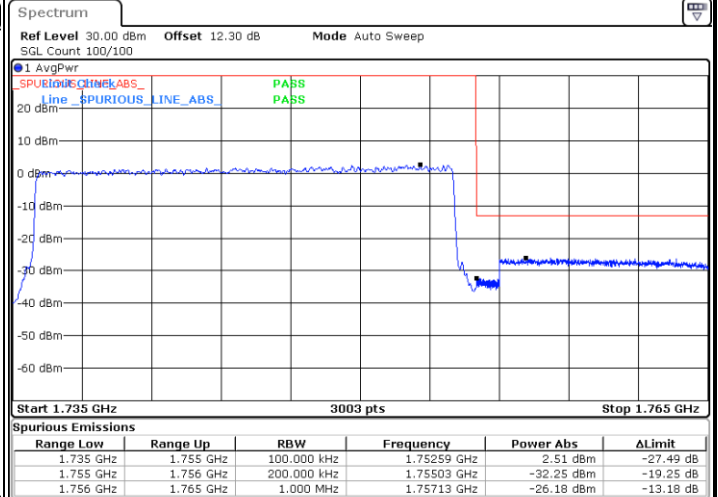


LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB

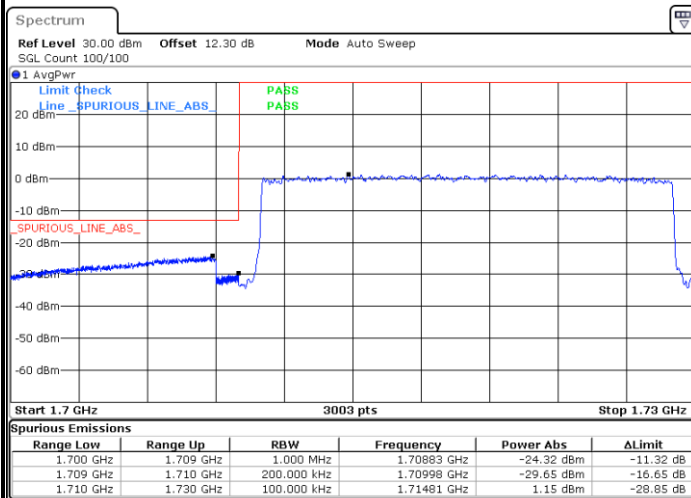


Highest Band Edge / Full RB

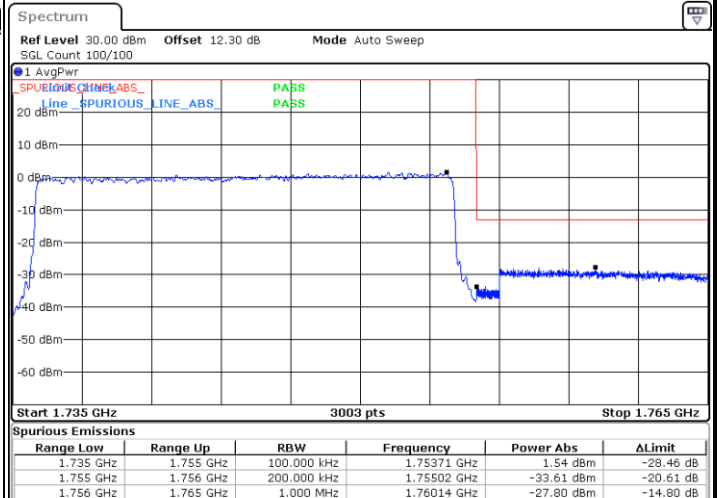


LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / Full RB



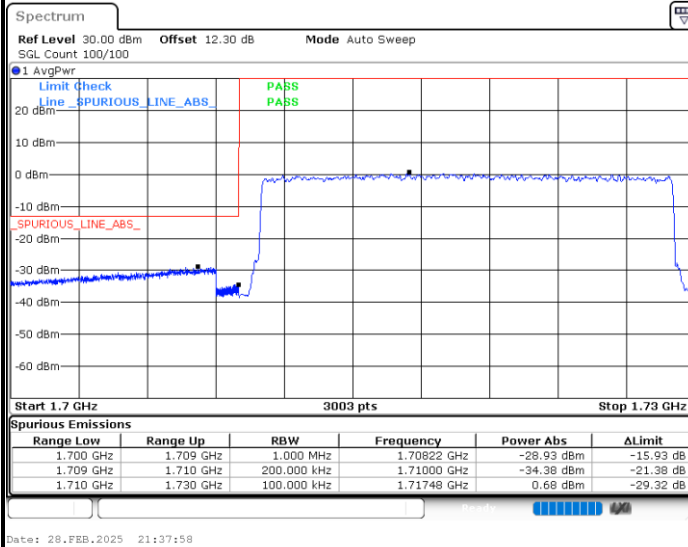
Highest Band Edge / Full RB



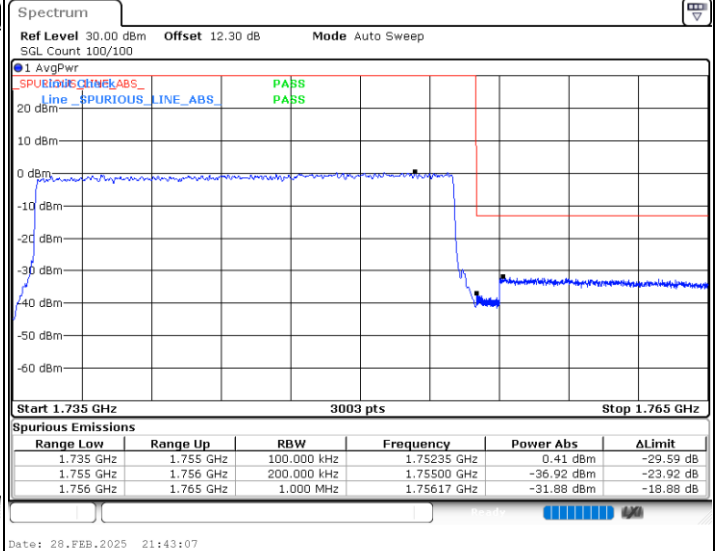


LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / Full RB

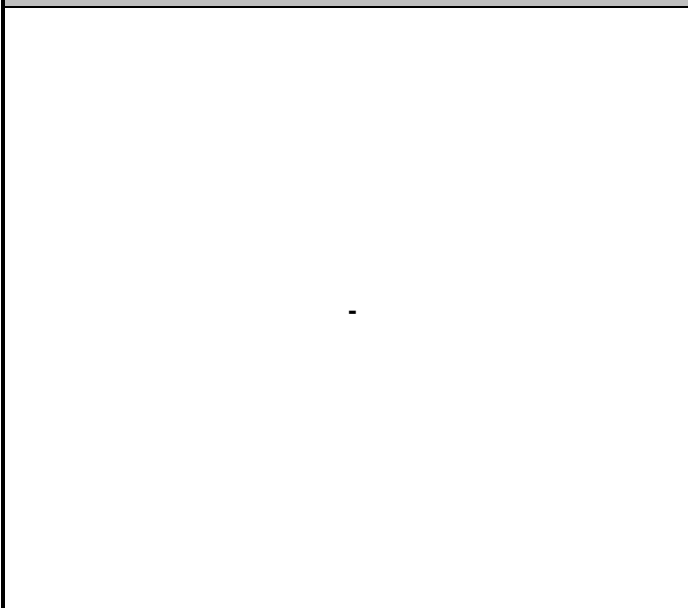


Highest Band Edge / Full RB

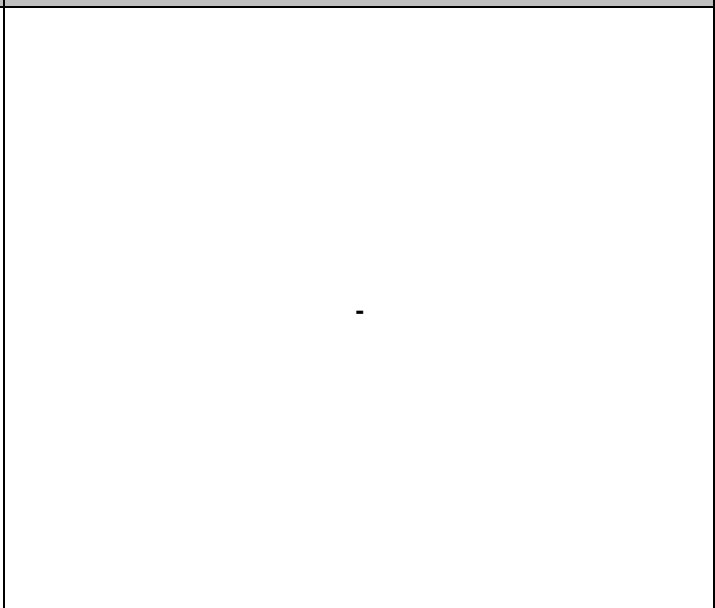


LTE Band 4 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

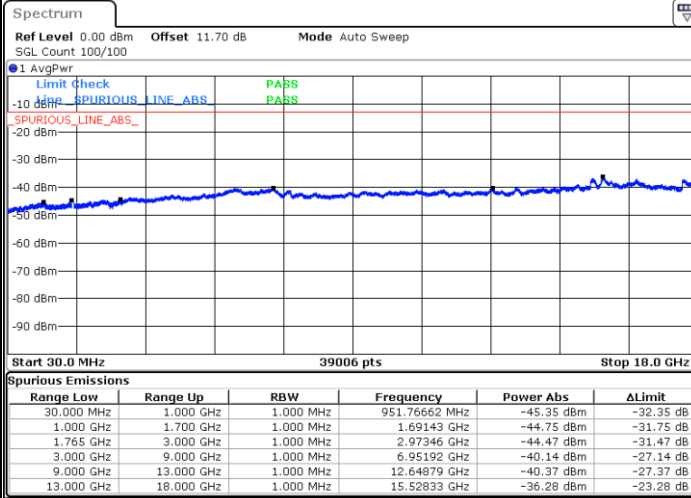




Conducted Spurious Emission

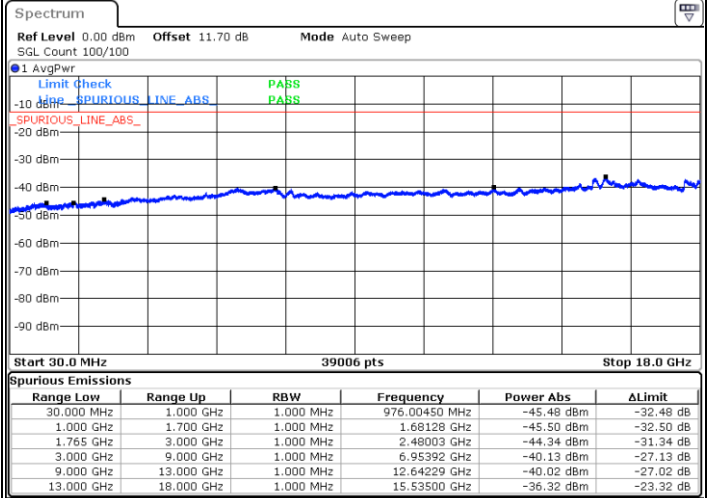
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



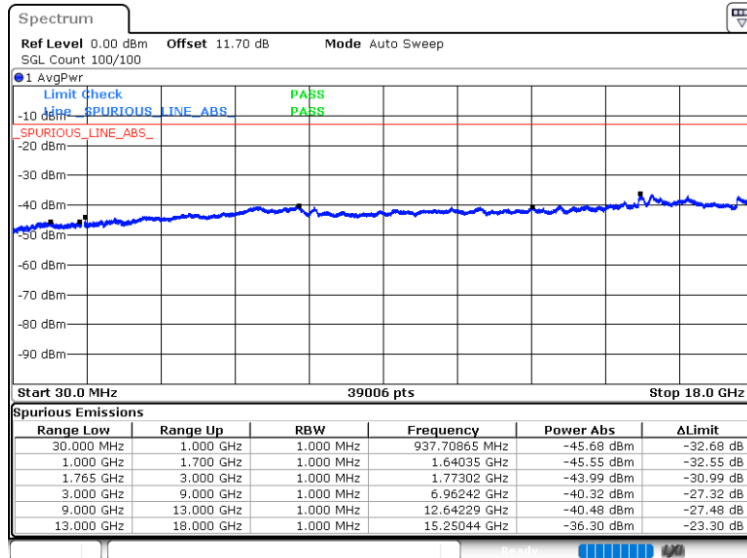
Date: 29.NOV.2024 01:40:09

Middle Channel / QPSK



Date: 29.NOV.2024 01:41:27

Highest Channel / QPSK

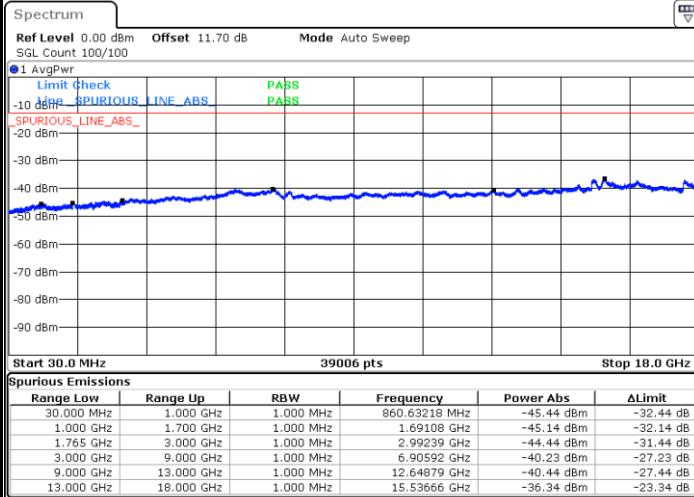


Date: 29.NOV.2024 01:42:45



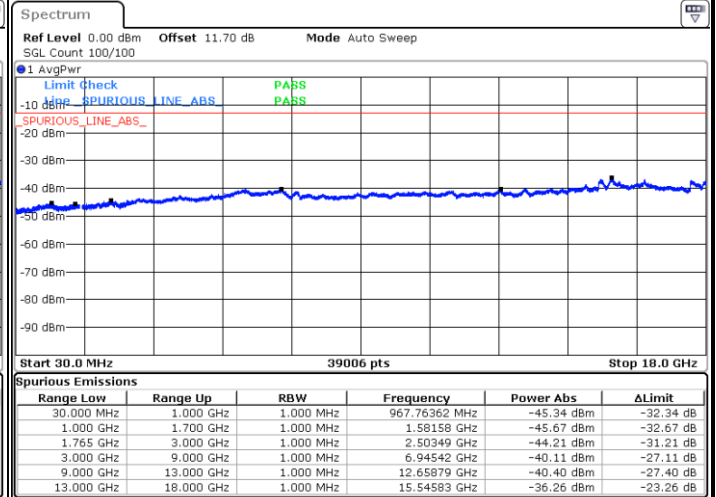
LTE Band 4 / 3MHz

Lowest Channel / QPSK



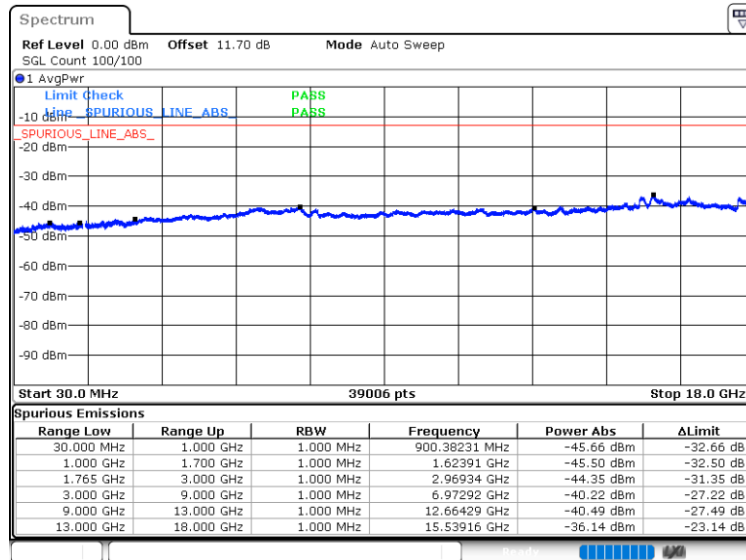
Date: 29.NOV.2024 01:46:02

Middle Channel / QPSK



Date: 29.NOV.2024 01:47:20

Highest Channel / QPSK

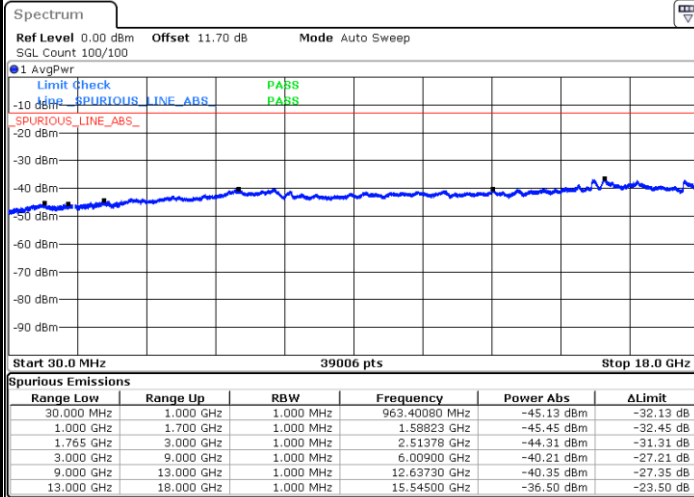


Date: 29.NOV.2024 01:48:37



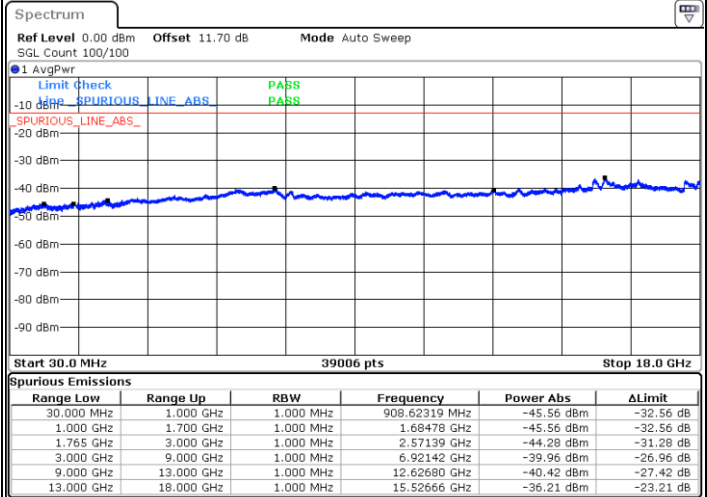
LTE Band 4 / 5MHz

Lowest Channel / QPSK



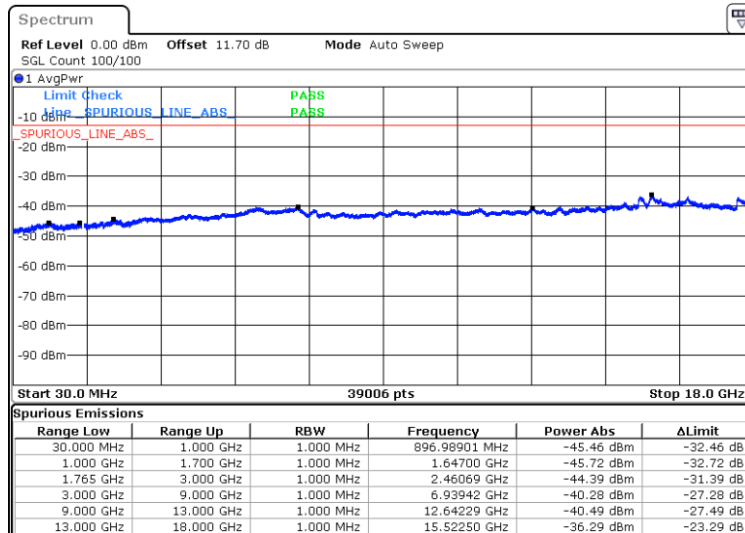
Date: 29.NOV.2024 01:51:55

Middle Channel / QPSK



Date: 29.NOV.2024 01:53:12

Highest Channel / QPSK

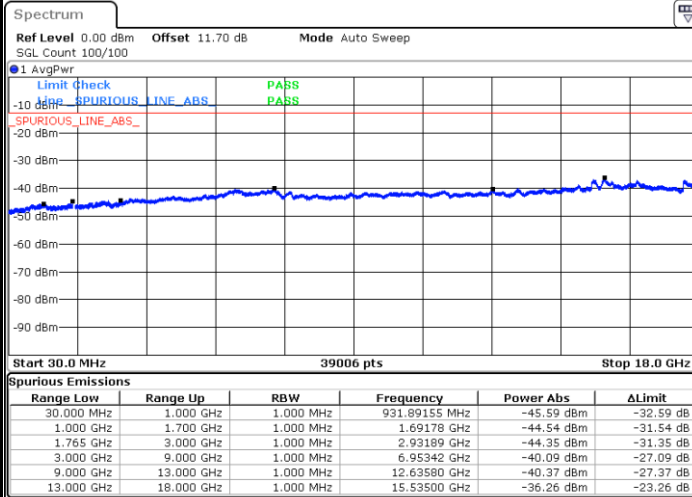


Date: 29.NOV.2024 01:54:30



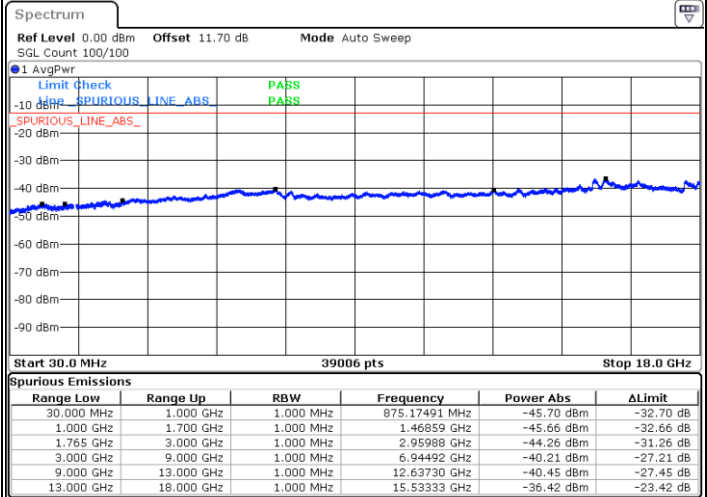
LTE Band 4 / 10MHz

Lowest Channel / QPSK



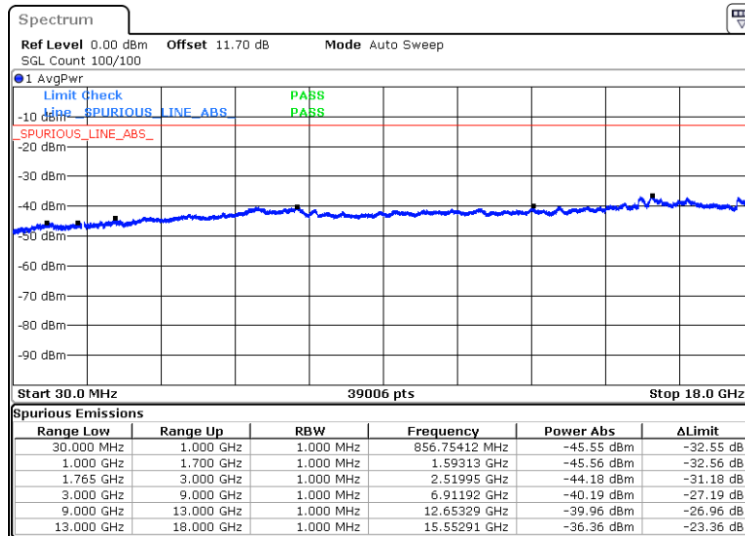
Date: 29.NOV.2024 01:57:47

Middle Channel / QPSK



Date: 29.NOV.2024 01:59:05

Highest Channel / QPSK

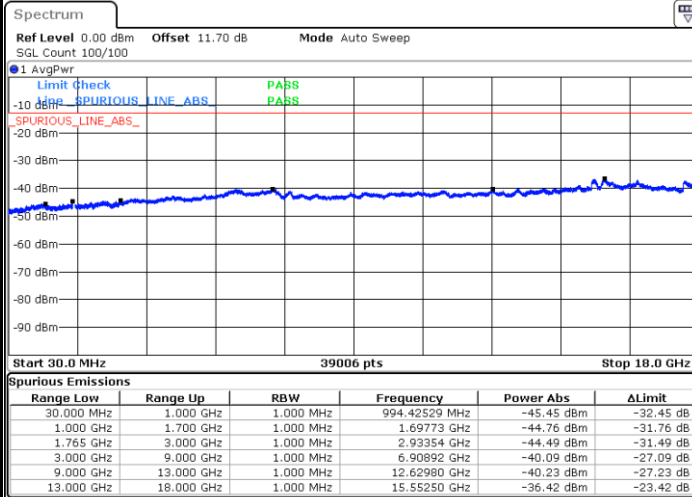


Date: 29.NOV.2024 02:00:23



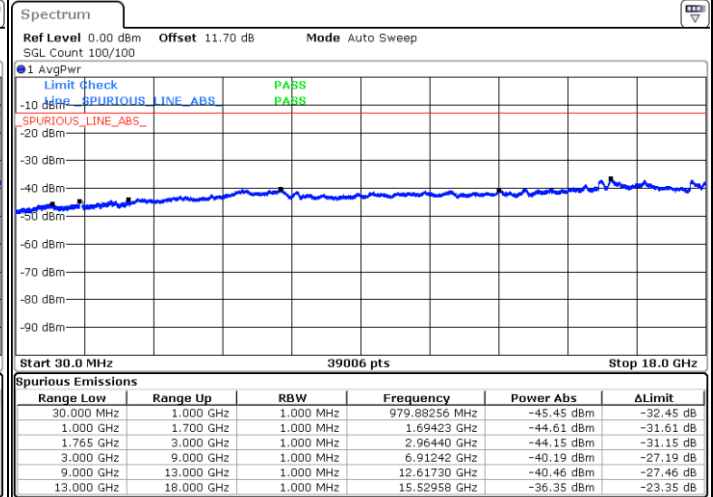
LTE Band 4 / 15MHz

Lowest Channel / QPSK



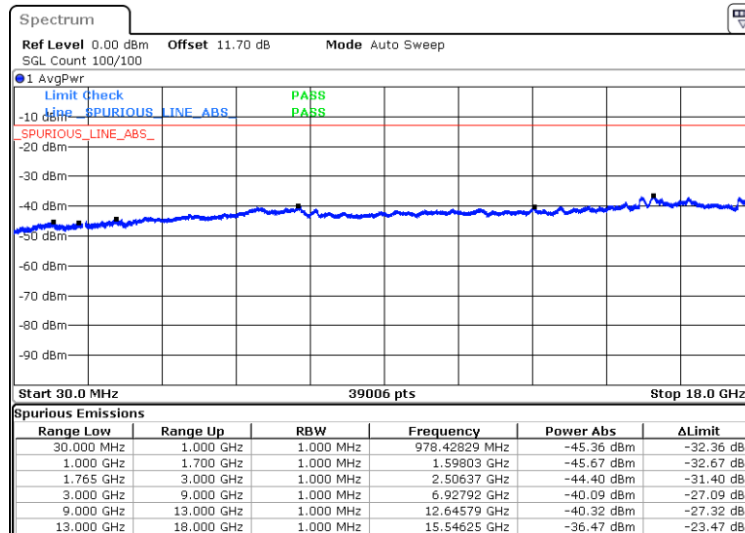
Date: 29.NOV.2024 02:03:40

Middle Channel / QPSK



Date: 29.NOV.2024 02:04:58

Highest Channel / QPSK

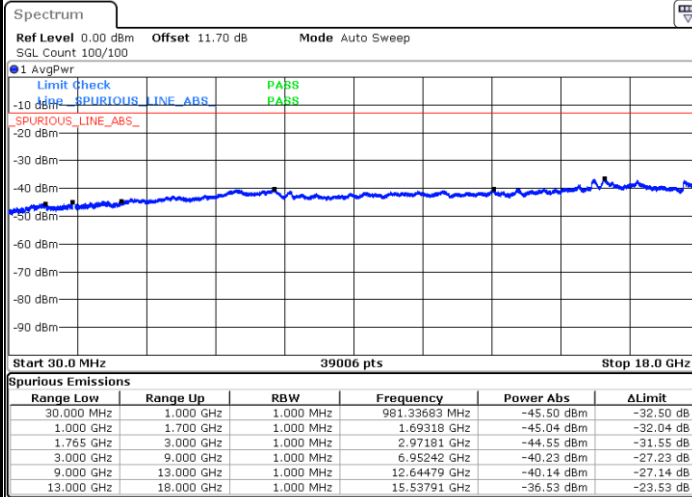


Date: 29.NOV.2024 02:06:15



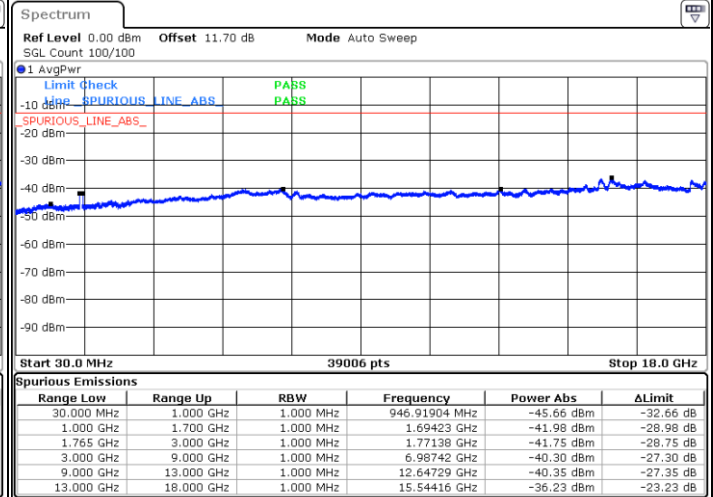
LTE Band 4 / 20MHz

Lowest Channel / QPSK



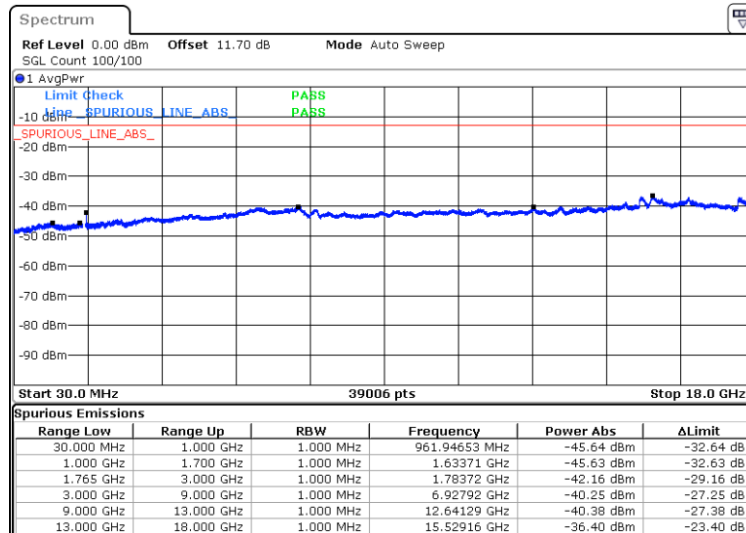
Date: 29.NOV.2024 02:09:33

Middle Channel / QPSK



Date: 29.NOV.2024 02:10:51

Highest Channel / QPSK



Date: 29.NOV.2024 02:12:09

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0042	PASS
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0089	
20	Maximum Voltage	0.0088	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0007	

Note:

1. Normal Voltage = 3.88 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.