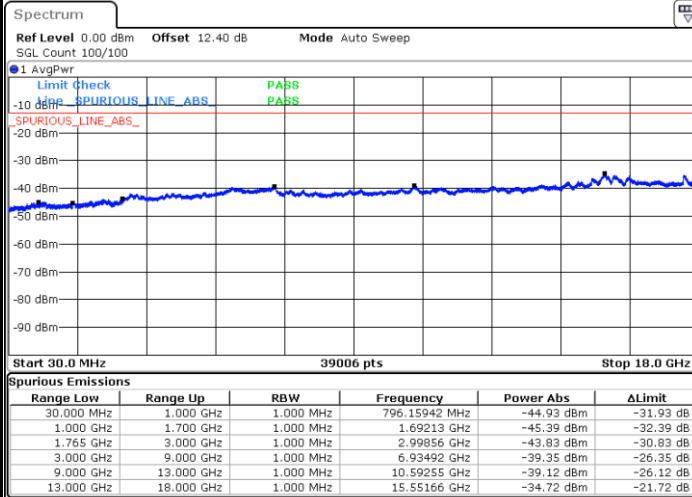




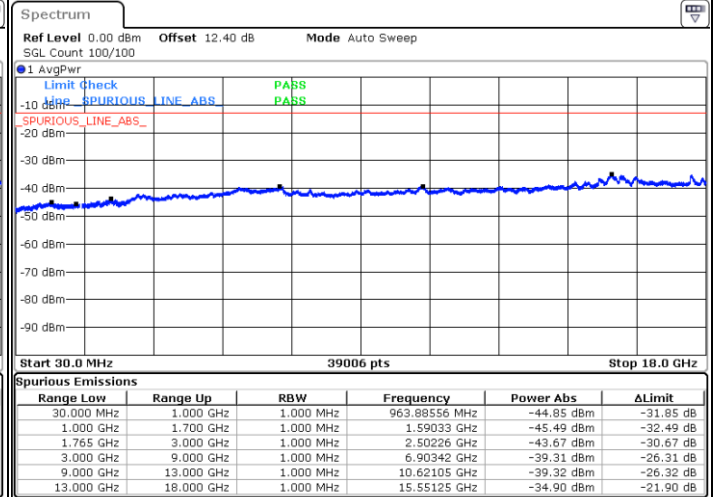
LTE Band 4 / 10MHz

Lowest Channel / QPSK



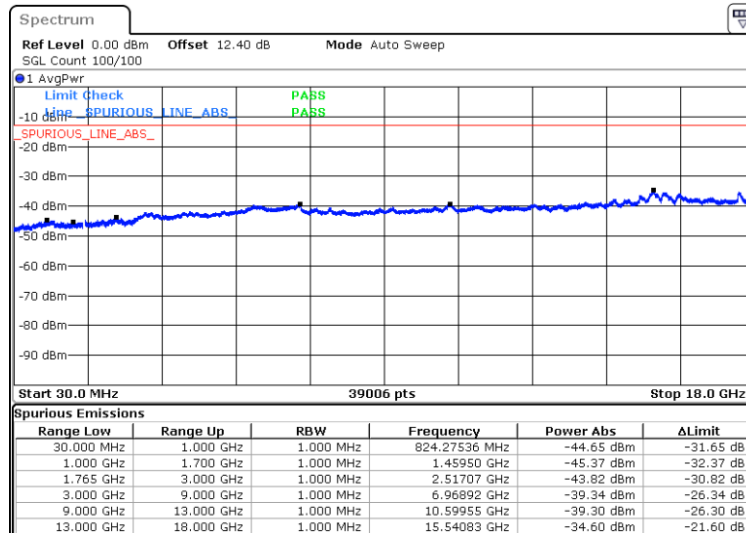
Date: 27.NOV.2024 12:35:21

Middle Channel / QPSK



Date: 27.NOV.2024 12:36:43

Highest Channel / QPSK

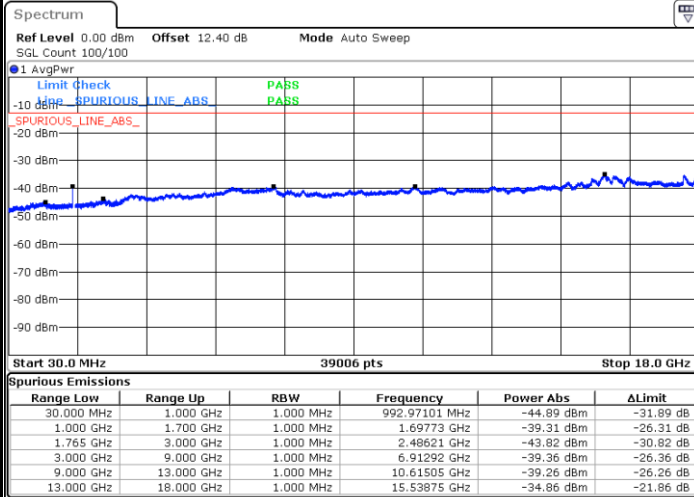


Date: 27.NOV.2024 12:38:04



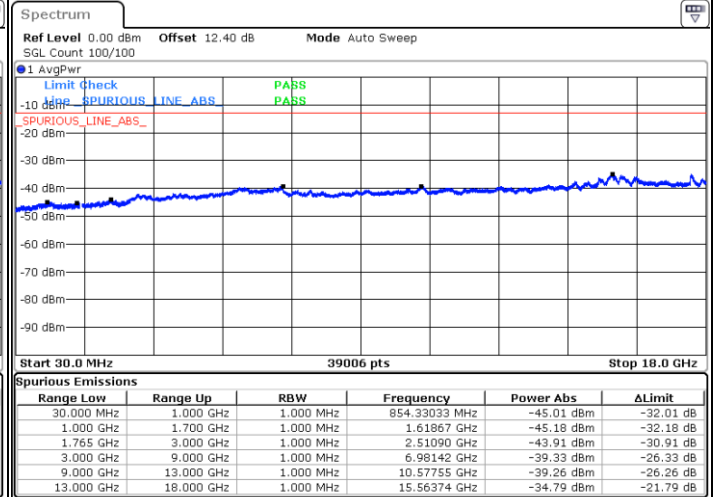
LTE Band 4 / 15MHz

Lowest Channel / QPSK



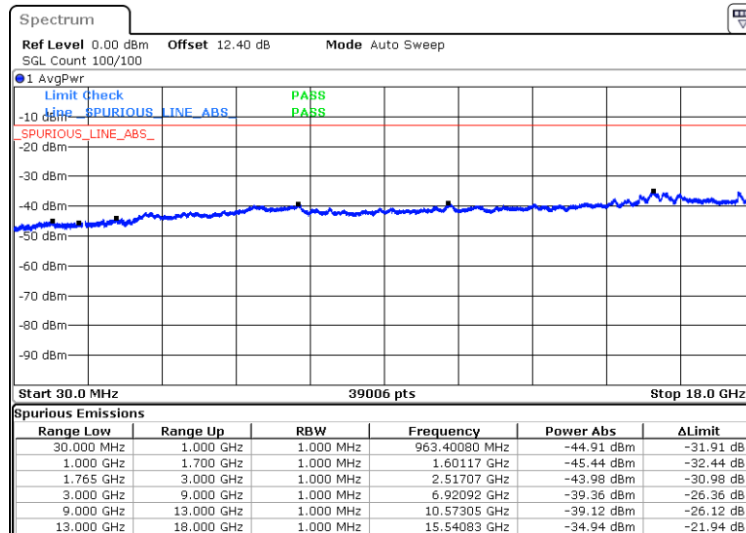
Date: 27.NOV.2024 13:37:30

Middle Channel / QPSK



Date: 27.NOV.2024 13:39:01

Highest Channel / QPSK

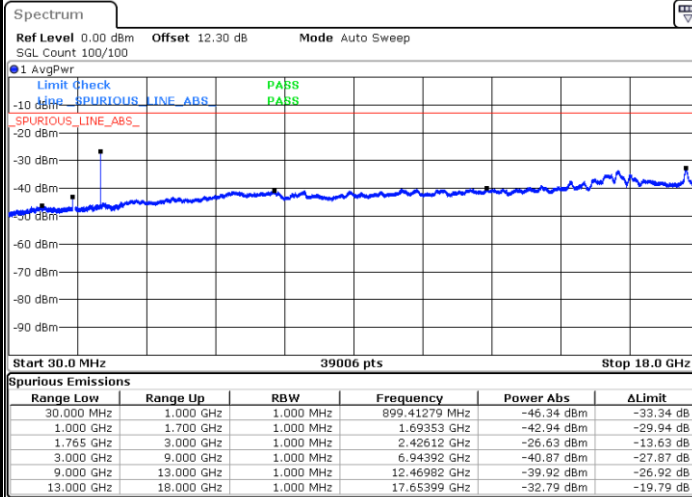


Date: 27.NOV.2024 13:40:34



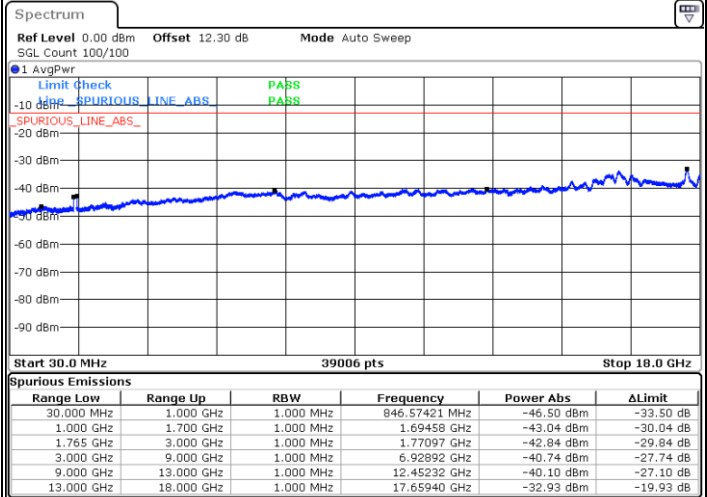
LTE Band 4 / 20MHz

Lowest Channel / QPSK



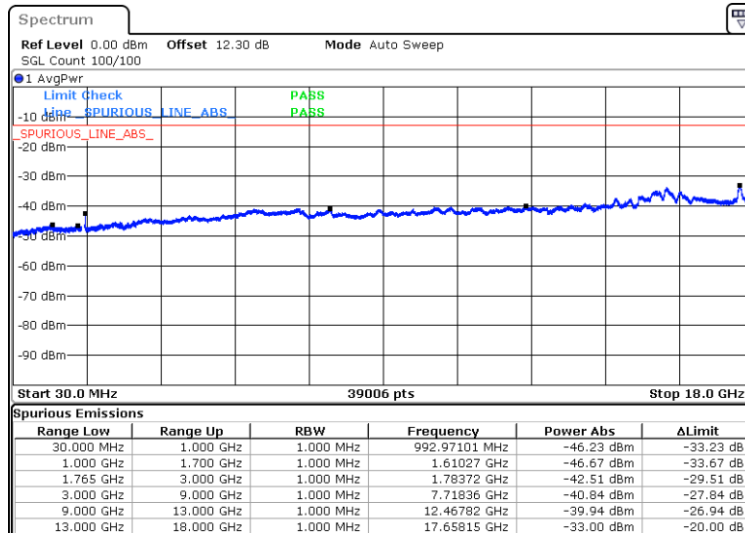
Date: 27.FEB.2025 20:57:59

Middle Channel / QPSK



Date: 27.FEB.2025 20:59:11

Highest Channel / QPSK



Date: 27.FEB.2025 21:04:58

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	0.0017	PASS
30	Normal Voltage	0.0039	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0001	
20	Maximum Voltage	0.0009	
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.



LTE Band 5

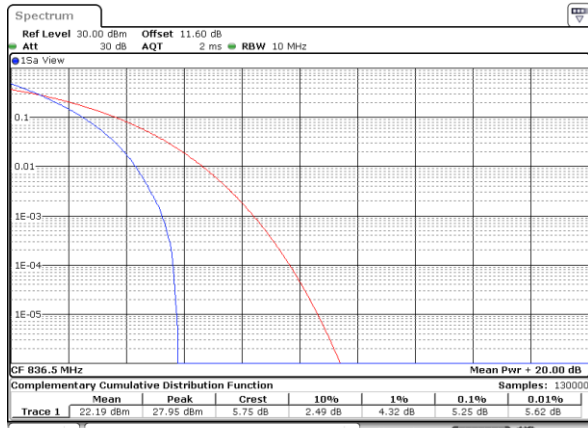
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.06	6.23	-	PASS



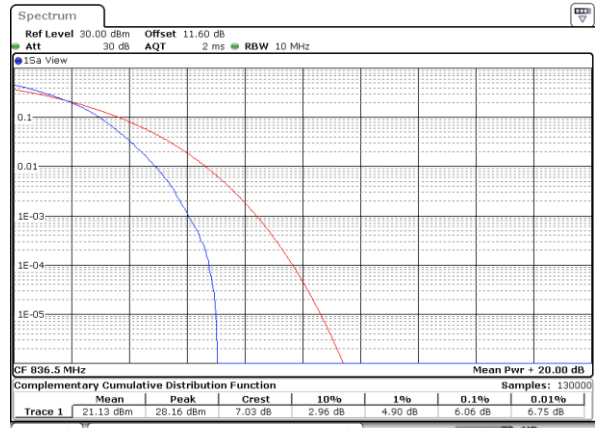
LTE Band 5 / 10MHz / QPSK

Middle Channel / Full RB



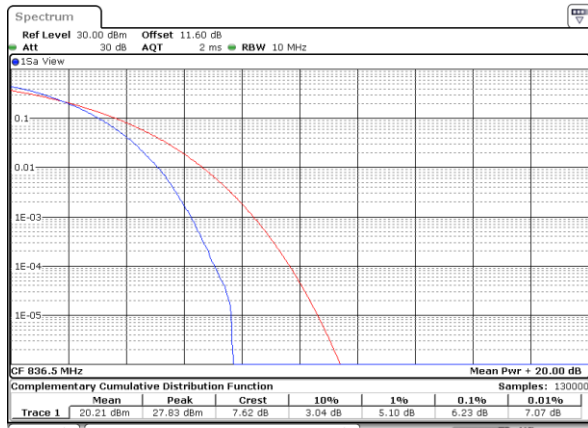
LTE Band 5 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 5 / 10MHz / 64QAM

Middle Channel / Full RB



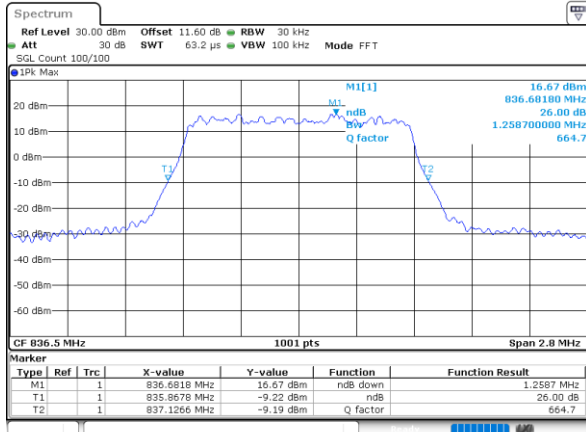
**26dB Bandwidth**

Mode	LTE Band 5 : 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	1.25	1.28	3.00	2.99	4.91	4.95	9.81	9.92	-	-	-	-
Mode	LTE Band 5 : 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	1.24	-	3.01	-	5.02	-	9.68	-	-	-	-	-



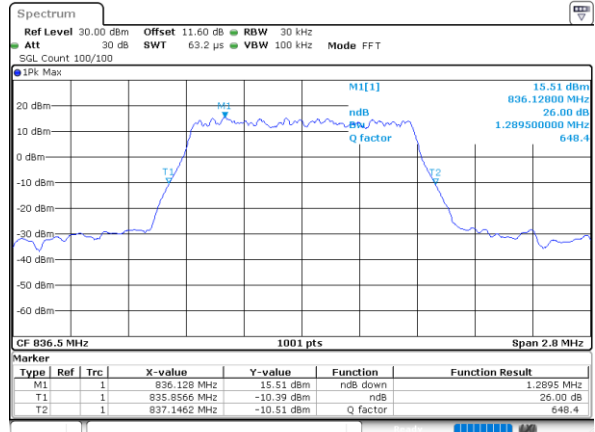
LTE Band 5

Middle Channel / 1.4MHz / QPSK



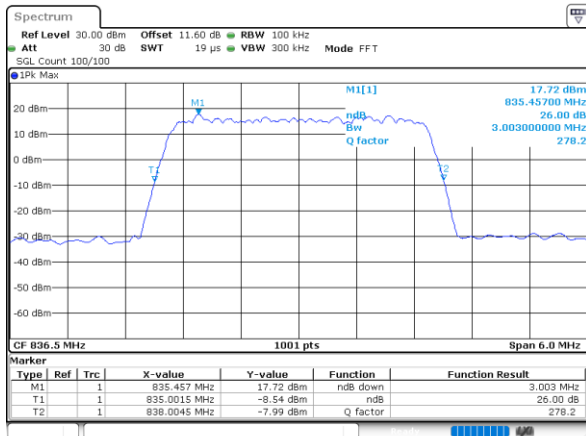
Date: 27.NOV.2024 18:20:26

Middle Channel / 1.4MHz / 16QAM



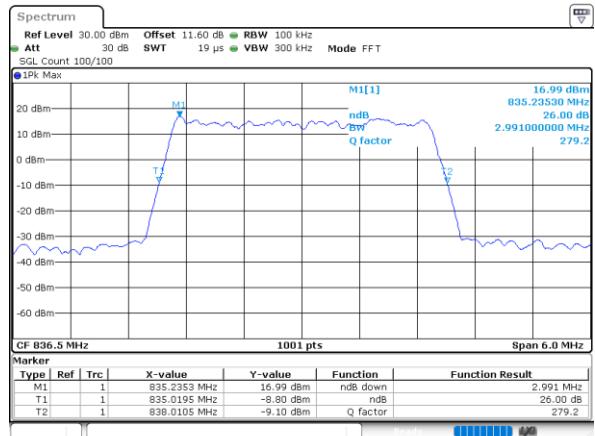
Date: 27.NOV.2024 18:21:02

Middle Channel / 3MHz / QPSK



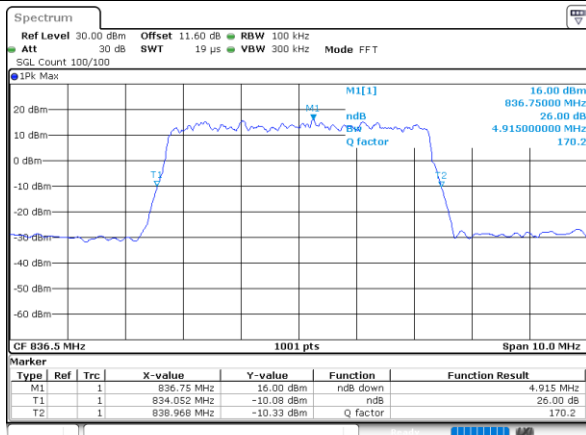
Date: 27.NOV.2024 21:56:50

Middle Channel / 3MHz / 16QAM



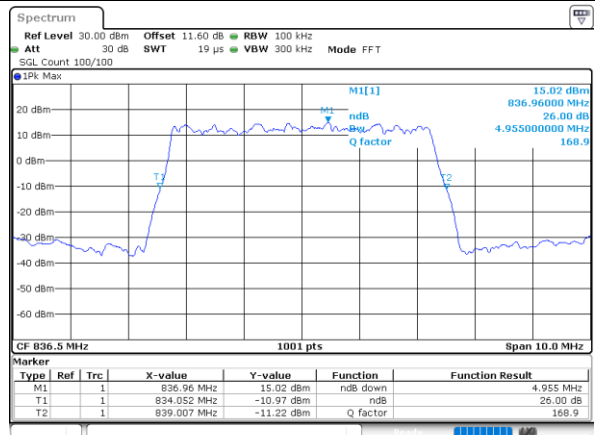
Date: 27.NOV.2024 21:51:26

Middle Channel / 5MHz / QPSK



Date: 27.NOV.2024 23:41:36

Middle Channel / 5MHz / 16QAM

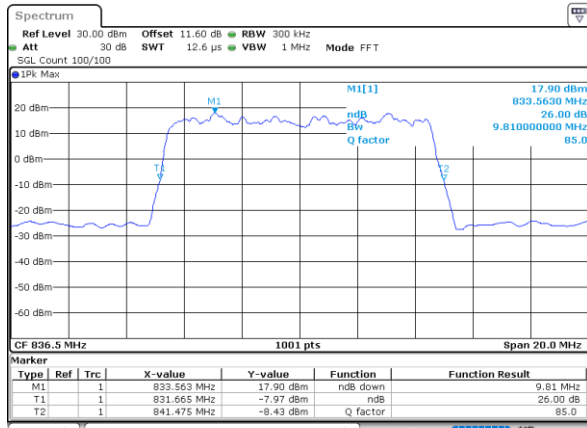


Date: 27.NOV.2024 23:42:11



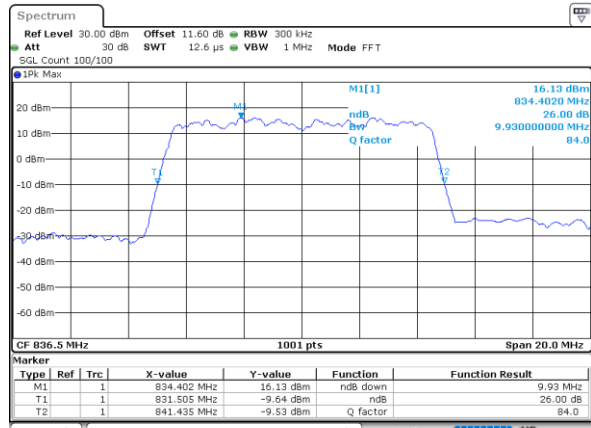
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 28,NOV,2024 08:04:32

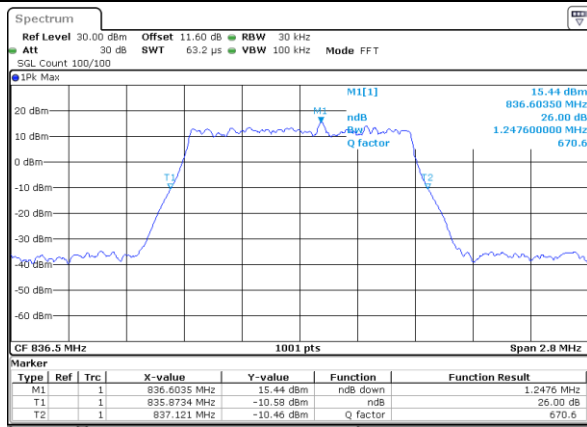
Middle Channel / 10MHz / 16QAM



Date: 28,NOV,2024 08:05:08

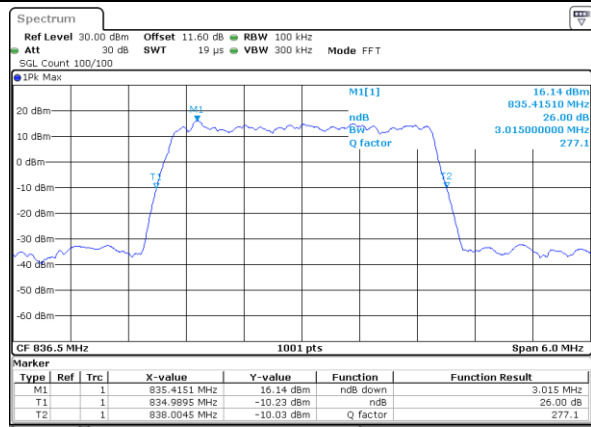
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



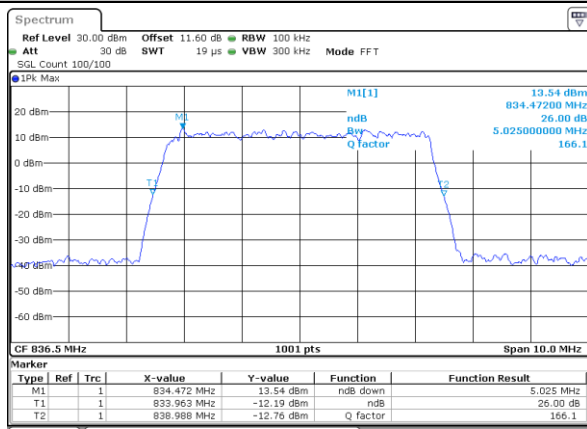
Date: 27,NOV,2024 18:21:42

Middle Channel / 3MHz / 64QAM



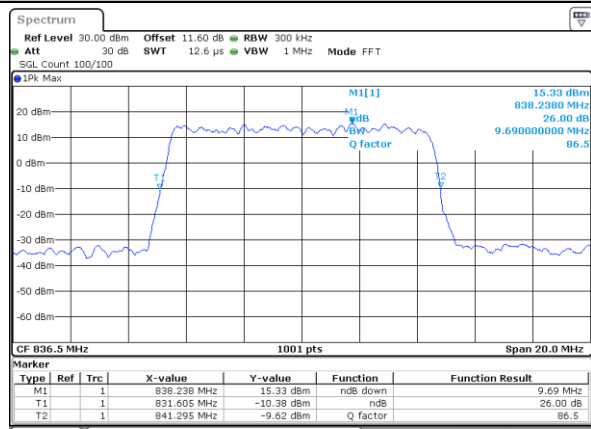
Date: 27,NOV,2024 21:52:01

Middle Channel / 5MHz / 64QAM



Date: 27,NOV,2024 23:42:45

Middle Channel / 10MHz / 64QAM



Date: 28,NOV,2024 08:05:41

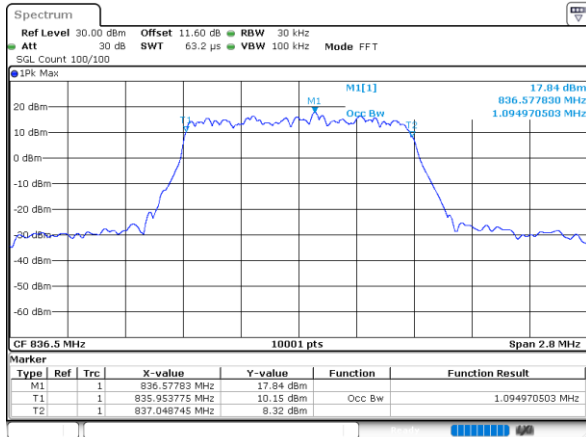
**Occupied Bandwidth**

Mode	LTE Band 5 : 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	1.09	1.08	2.73	2.71	4.48	4.47	9.03	9.00	-	-	-	-
Mode	LTE Band 5 : 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	1.08	-	2.71	-	4.49	-	9.05	-	-	-	-	-

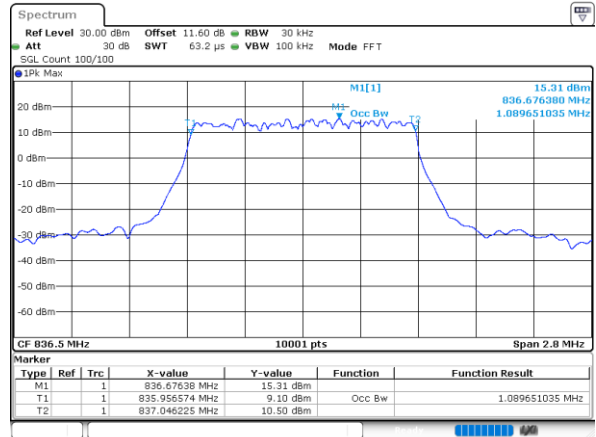


LTE Band 5

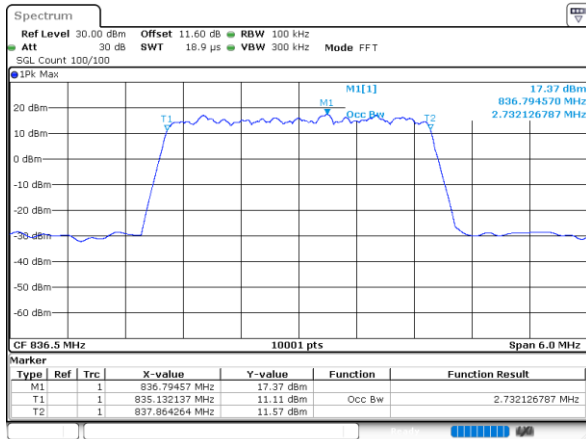
Middle Channel / 1.4MHz / QPSK



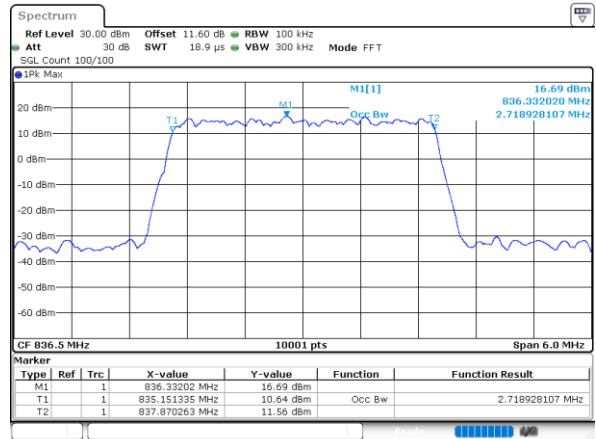
Middle Channel / 1.4MHz / 16QAM



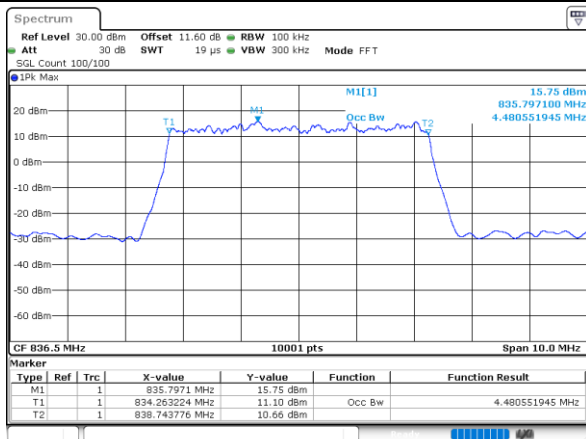
Middle Channel / 3MHz / QPSK



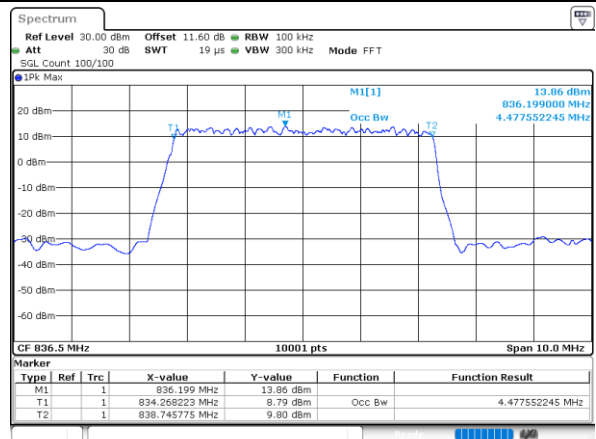
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



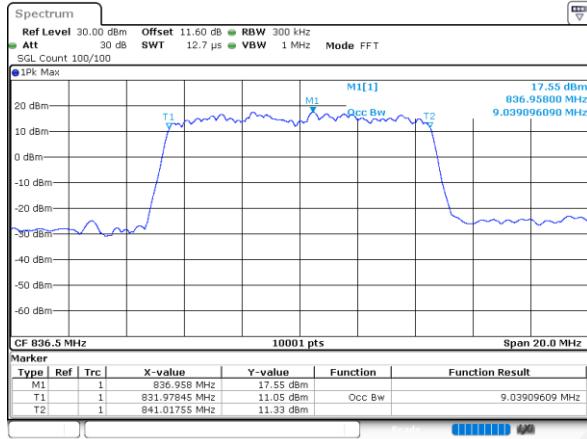
Middle Channel / 5MHz / 16QAM



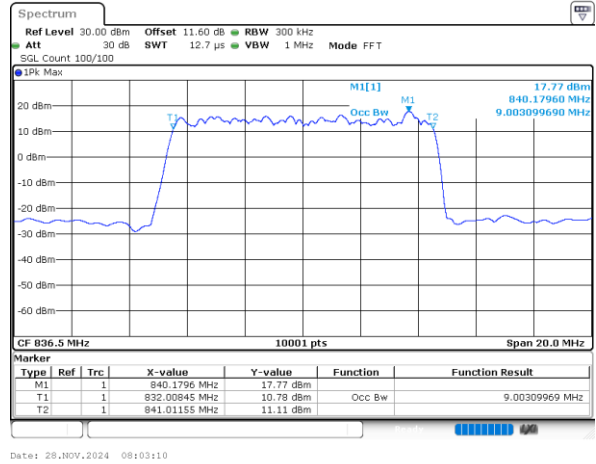


LTE Band 5

Middle Channel / 10MHz / QPSK

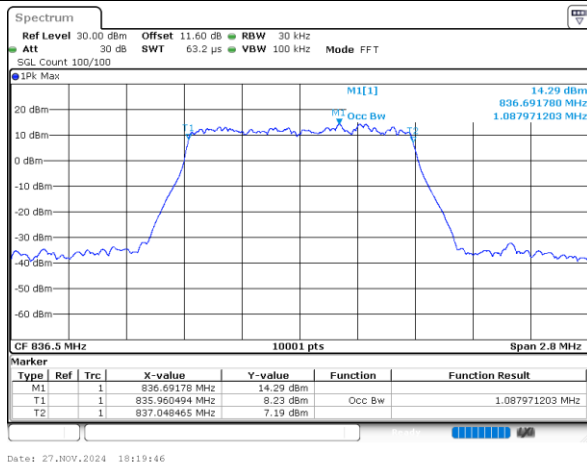


Middle Channel / 10MHz / 16QAM

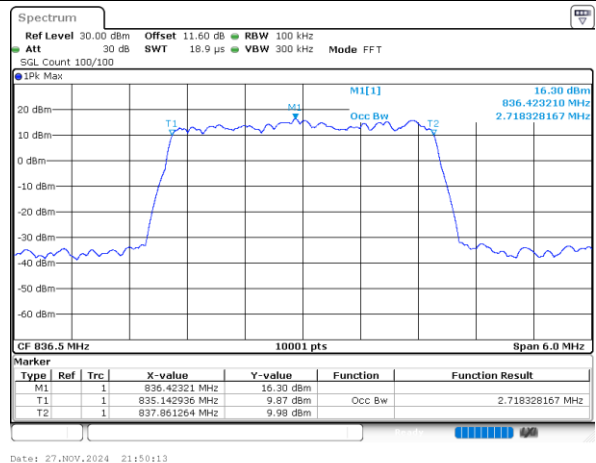


LTE Band 5

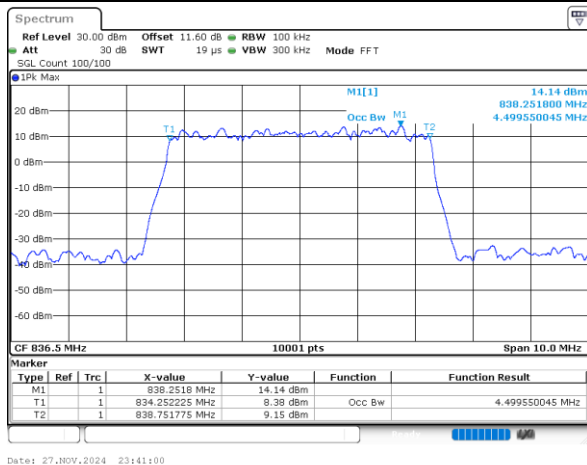
Middle Channel / 1.4MHz / 64QAM



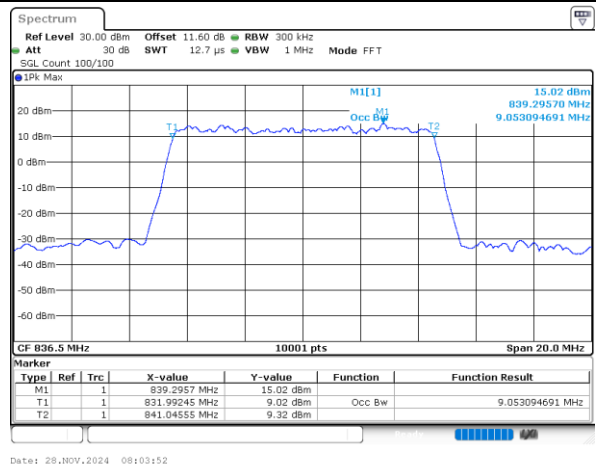
Middle Channel / 3MHz / 64QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

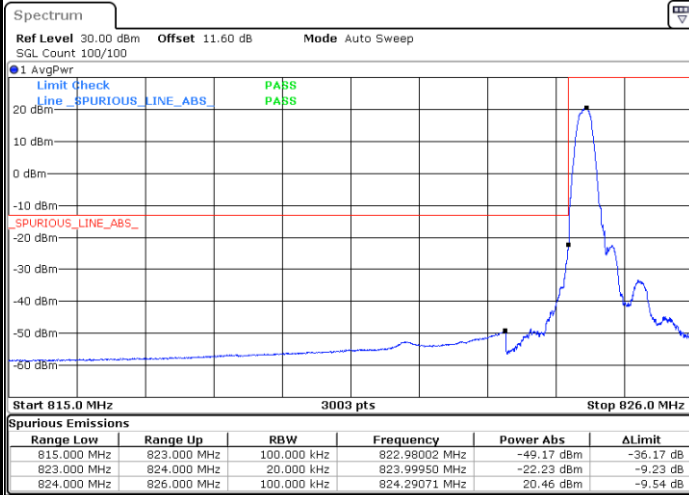




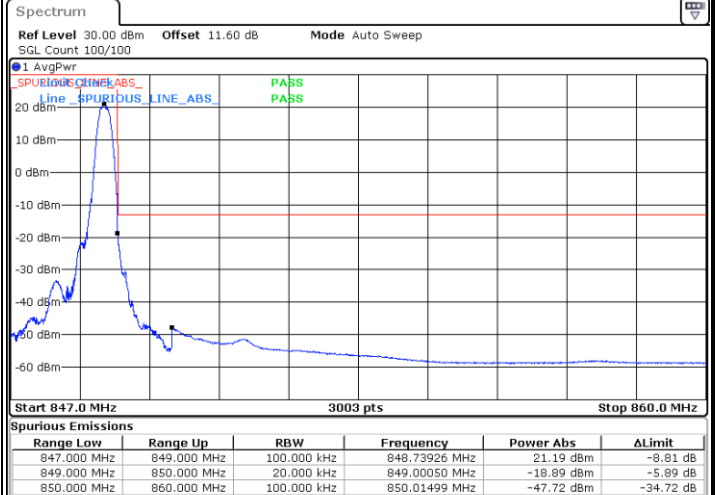
Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

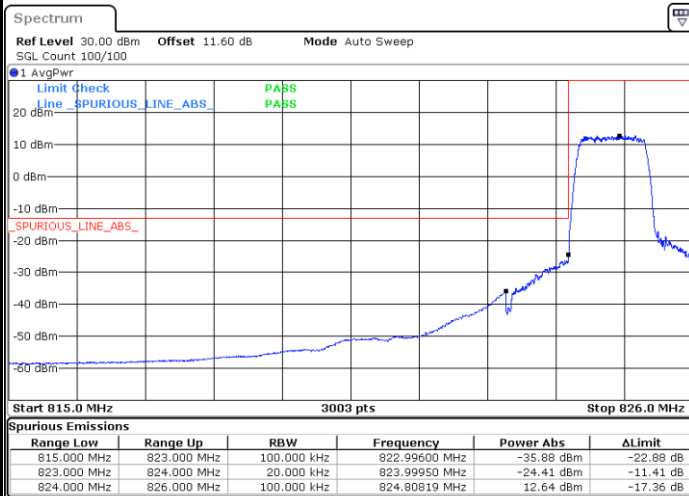
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



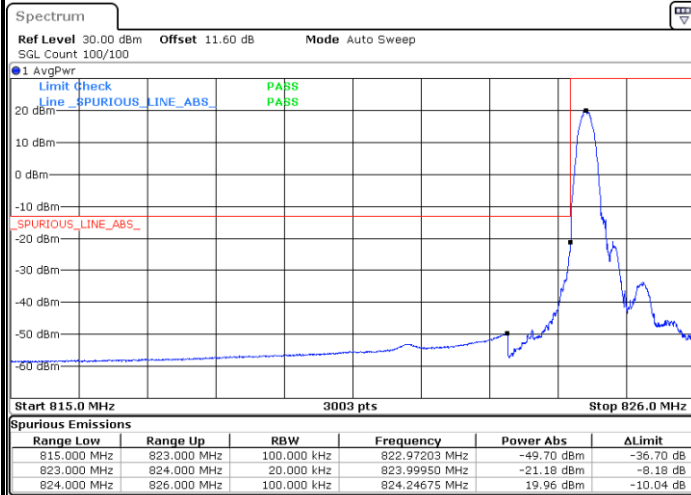
Highest Band Edge / Full RB



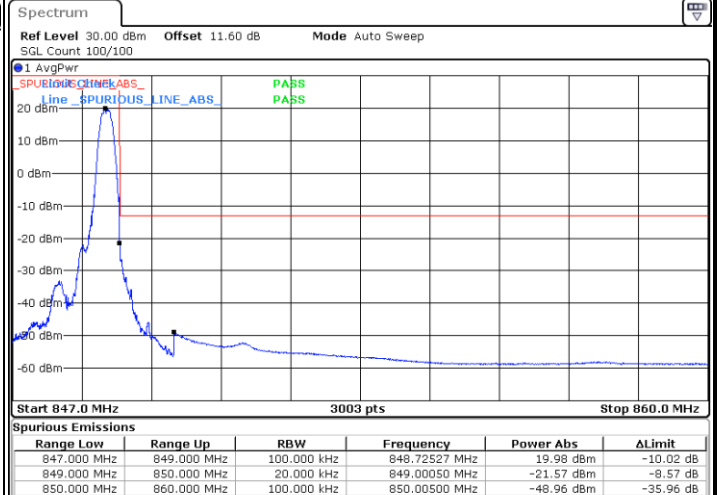


LTE Band 5 / 1.4MHz / 16QAM

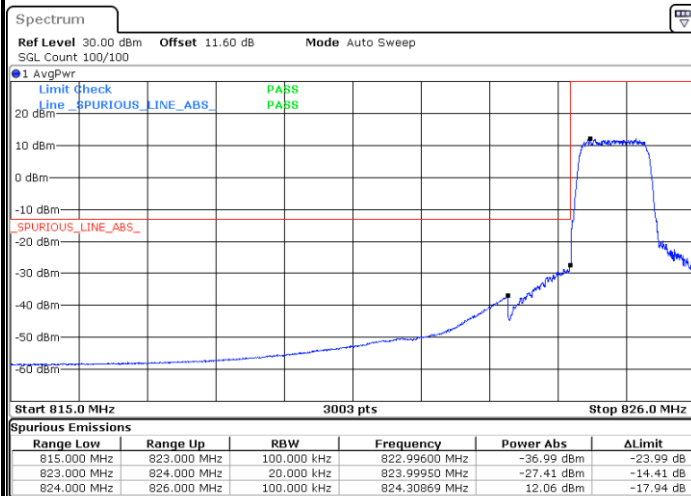
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



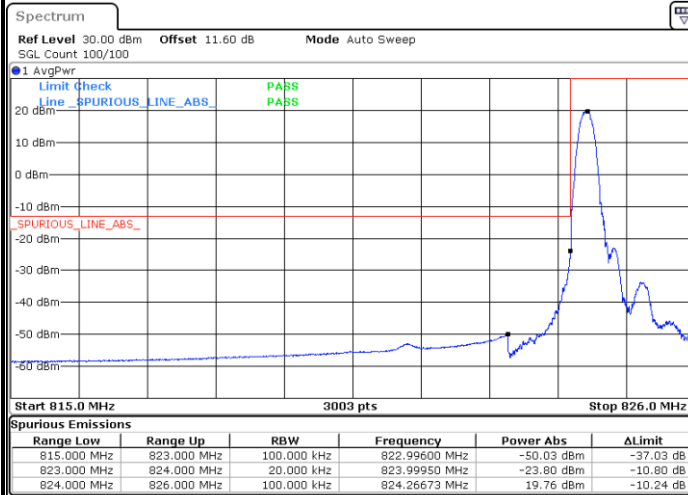
Highest Band Edge / Full RB



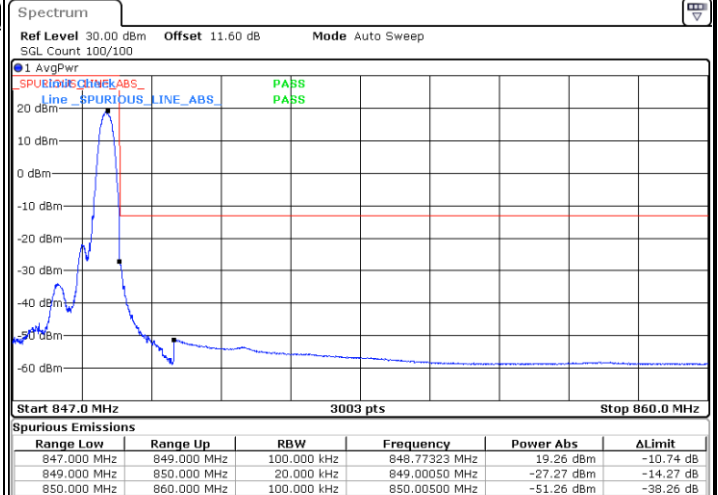


LTE Band 5 / 1.4MHz / 64QAM

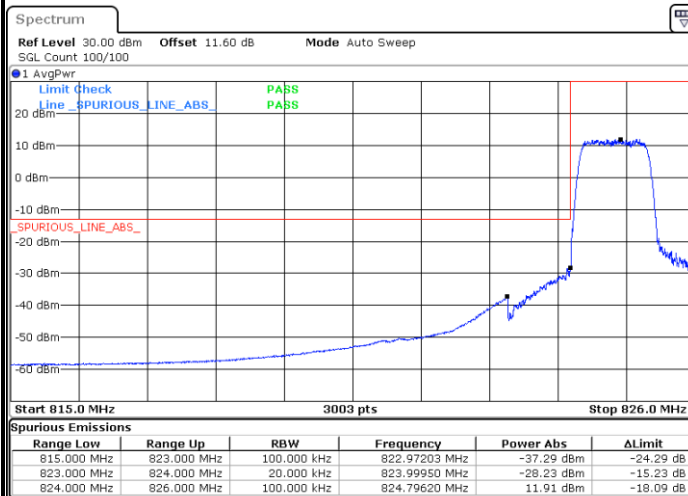
Lowest Band Edge / 1 RB



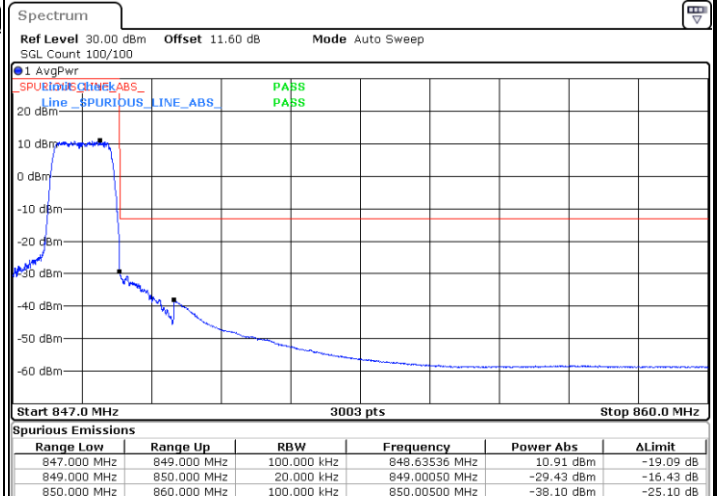
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



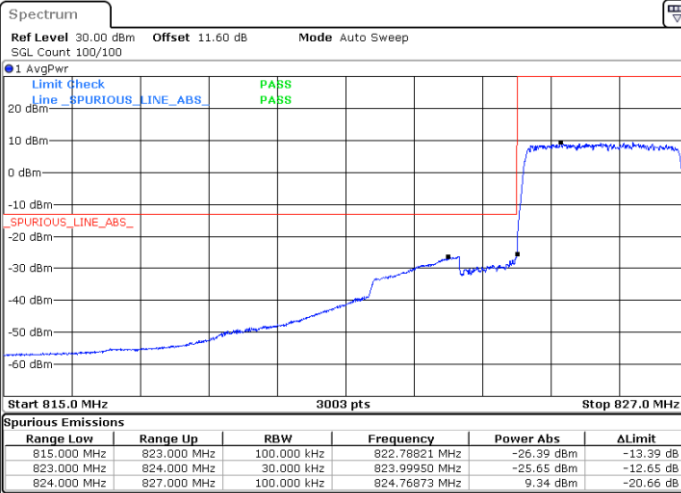
Highest Band Edge / Full RB



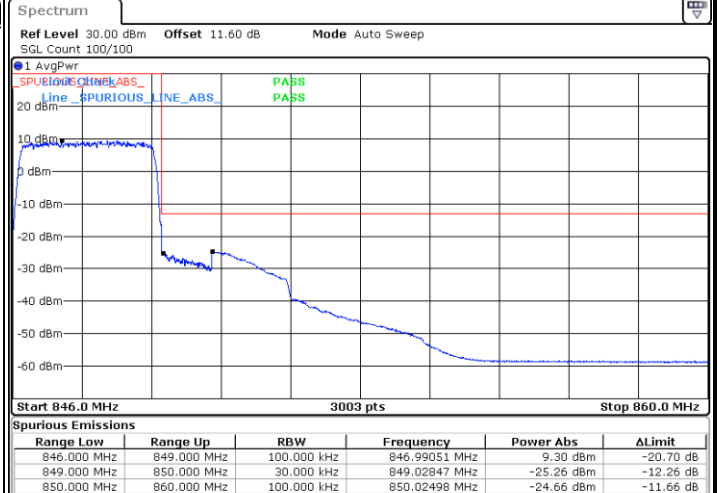


LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / Full RB

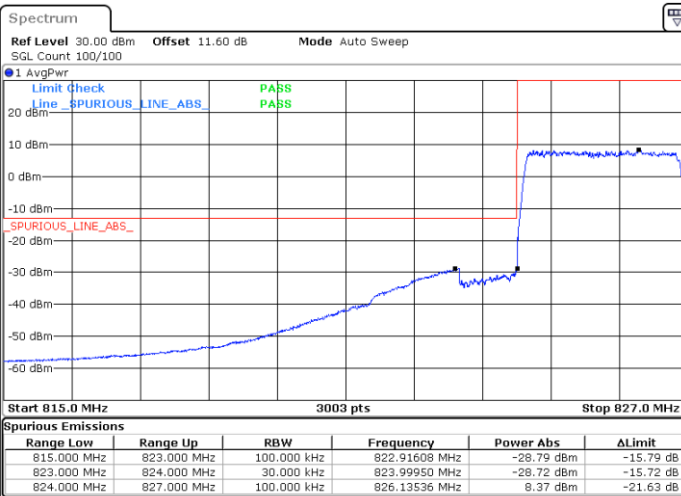


Highest Band Edge / Full RB

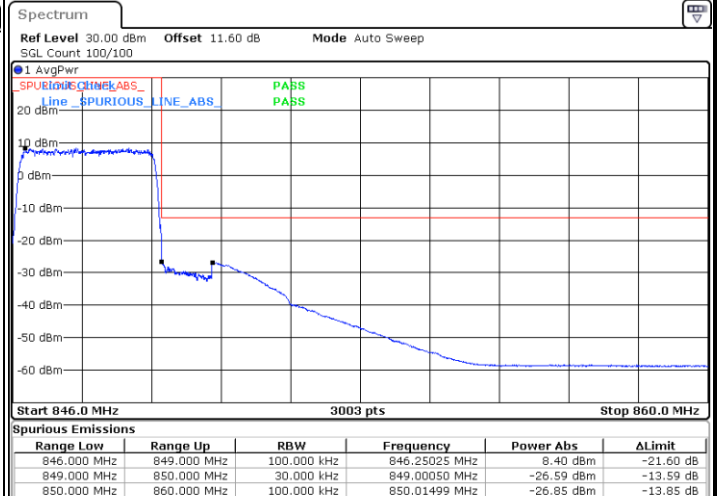


LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

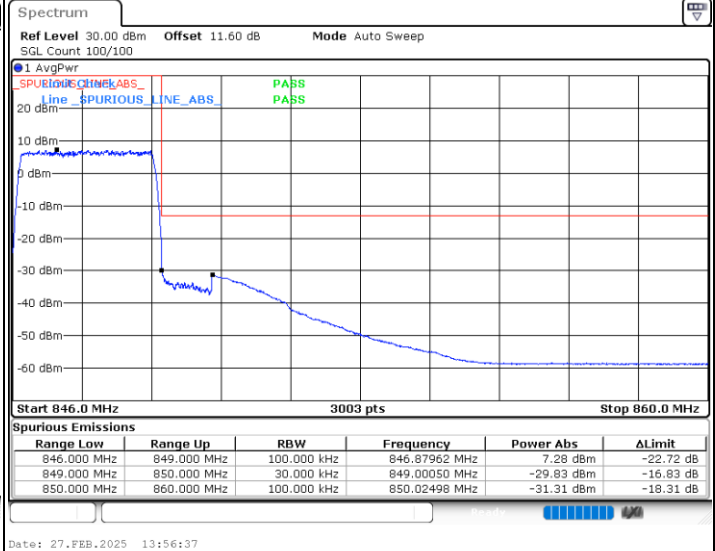
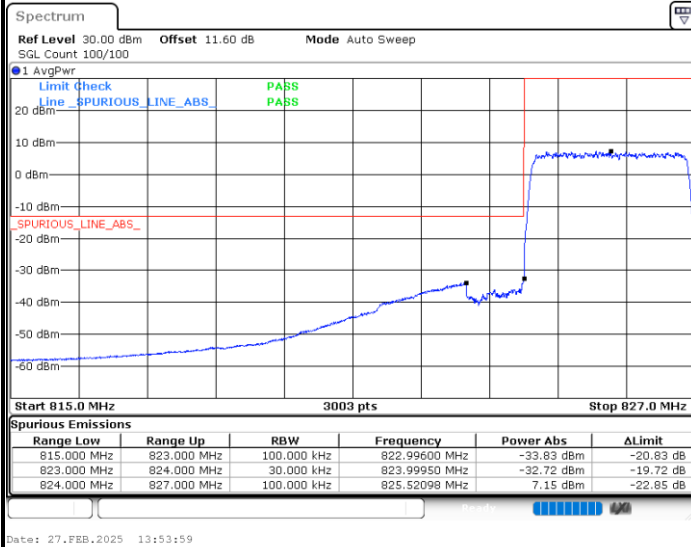




LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / Full RB

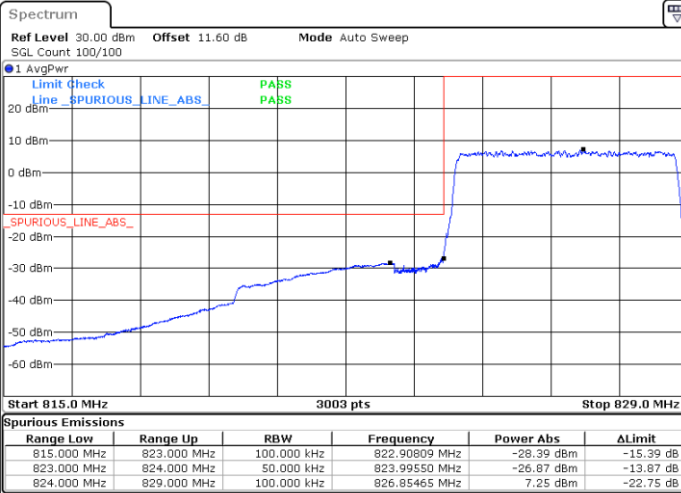
Highest Band Edge / Full RB



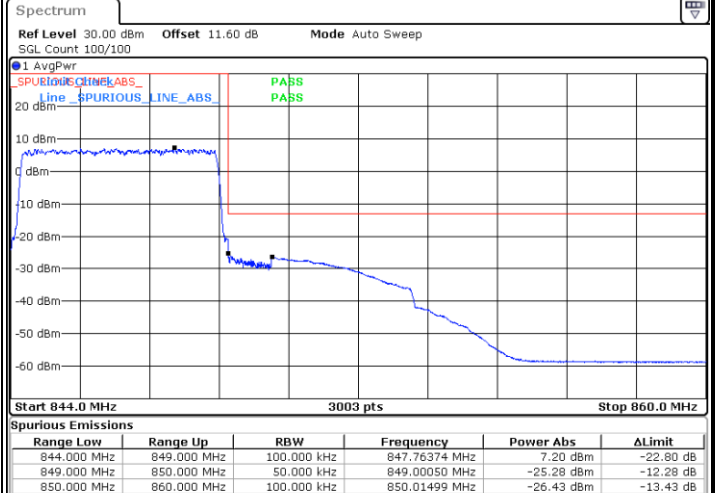


LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / Full RB

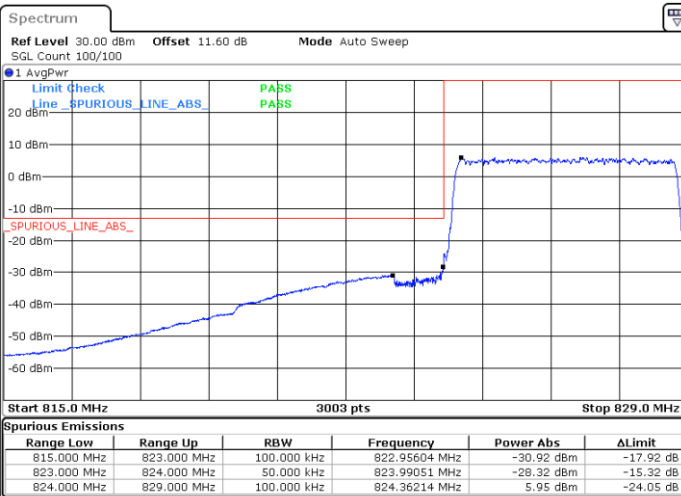


Highest Band Edge / Full RB

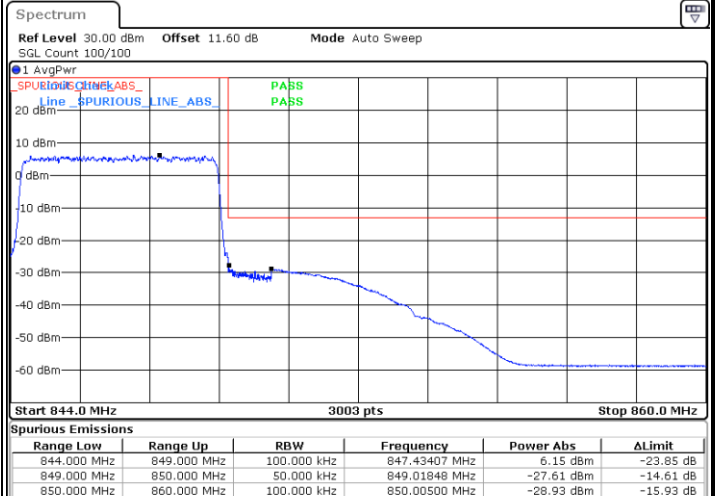


LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

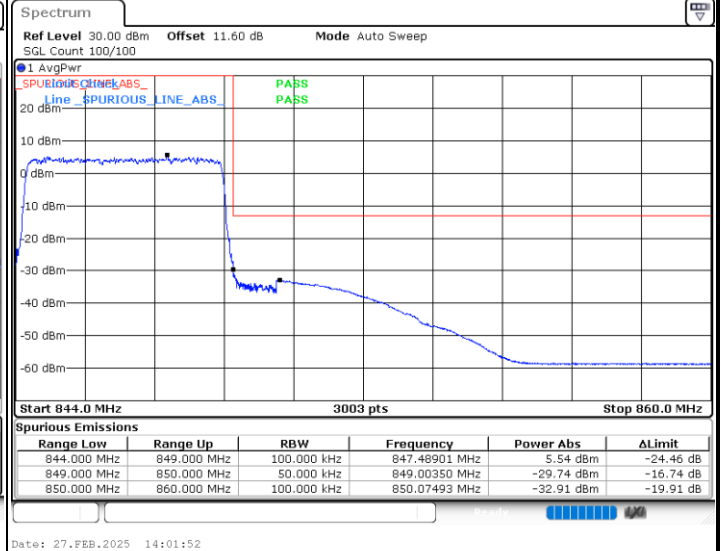
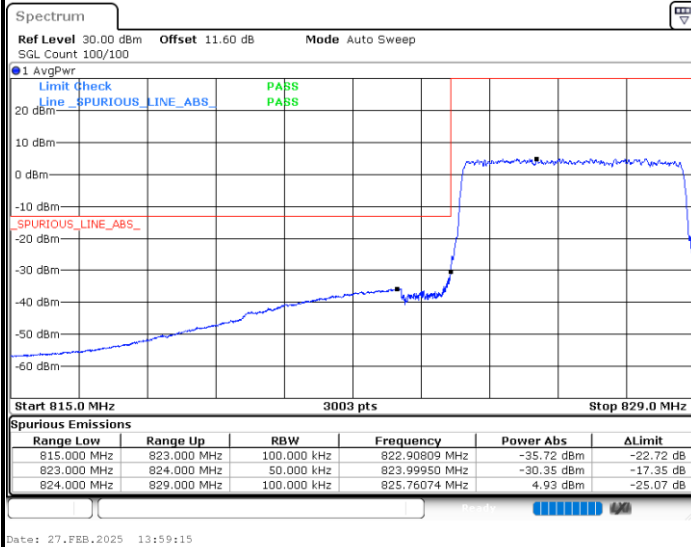




LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / Full RB

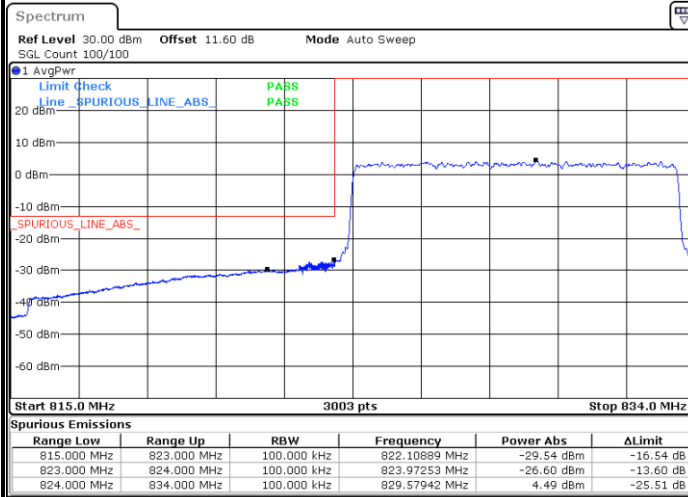
Highest Band Edge / Full RB



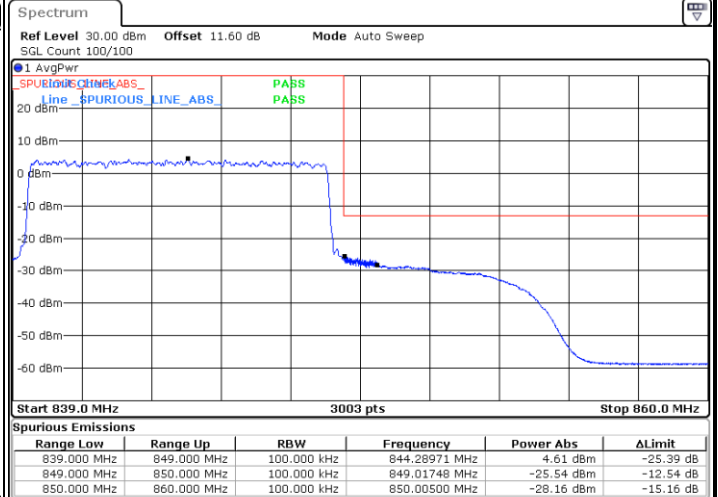


LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / Full RB

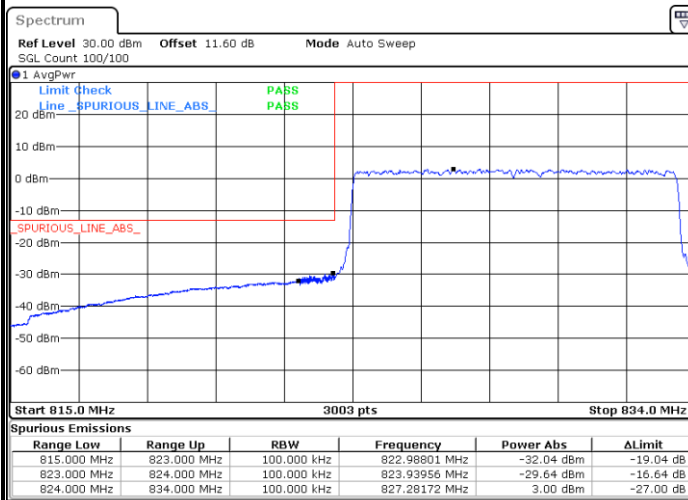


Highest Band Edge / Full RB

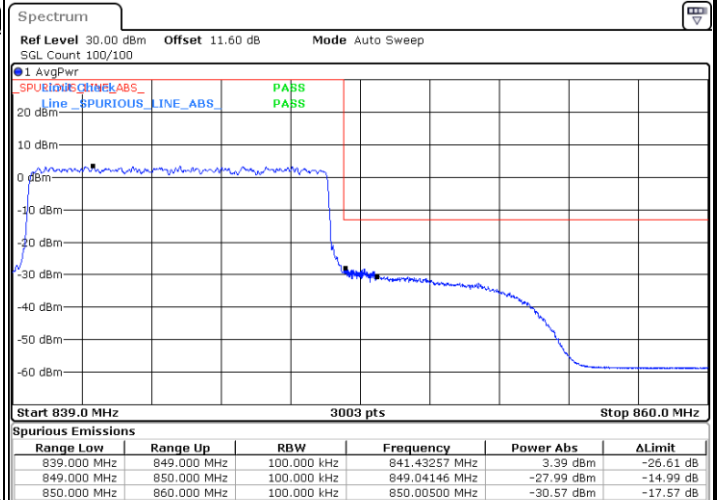


LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

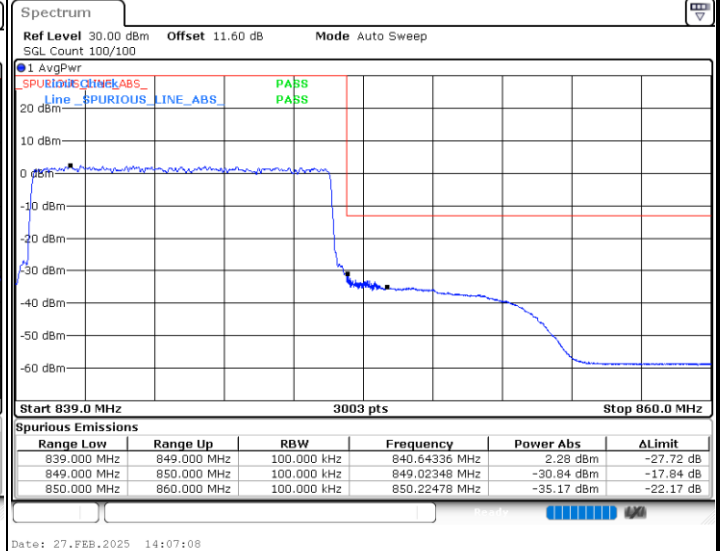
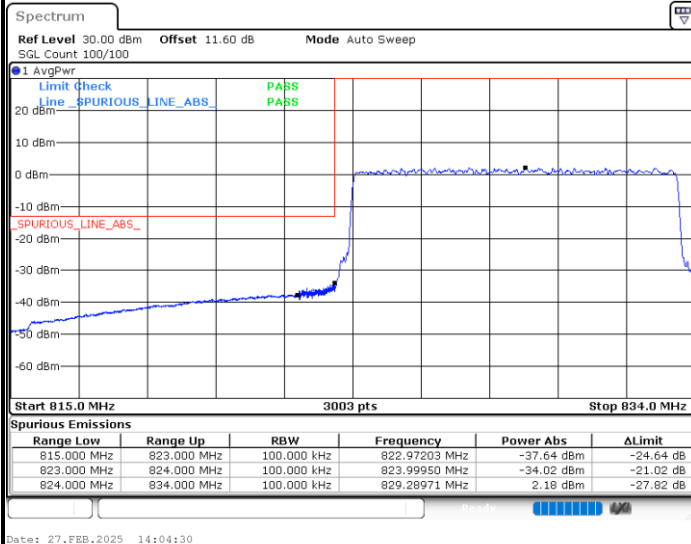




LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

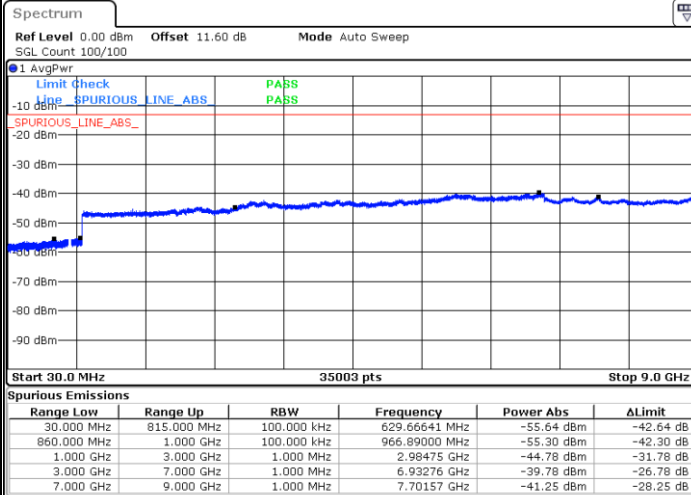




Conducted Spurious Emission

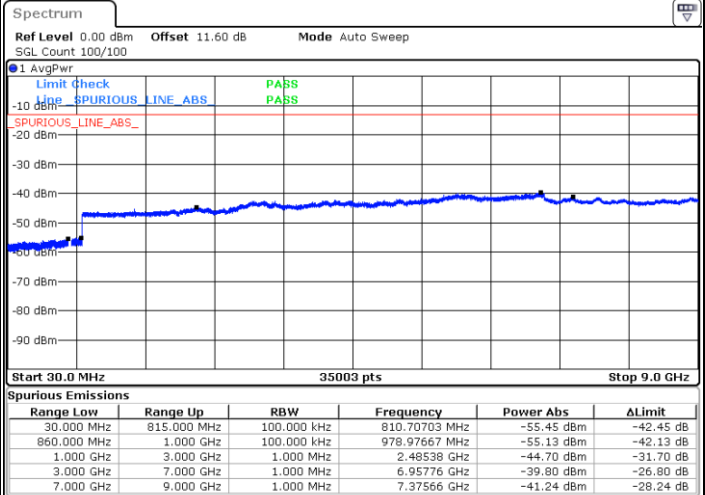
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



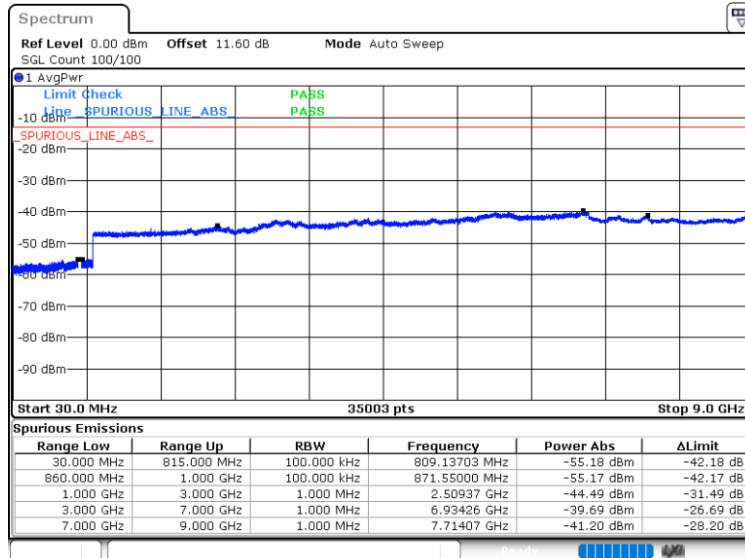
Date: 27.NOV.2024 18:23:09

Middle Channel / QPSK



Date: 27.NOV.2024 18:24:38

Highest Channel / QPSK

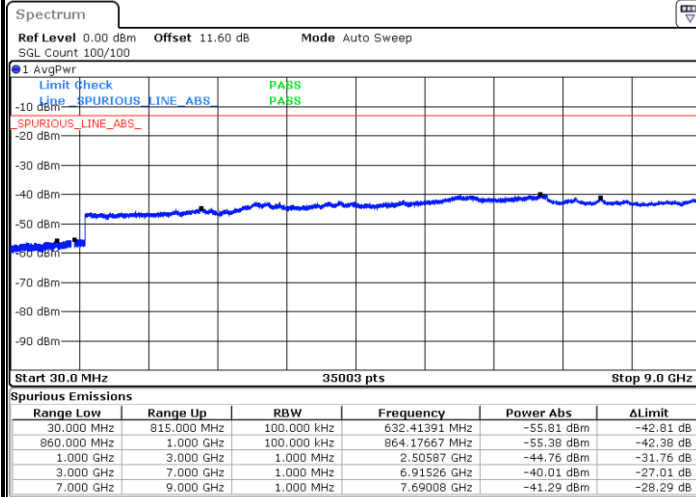


Date: 27.NOV.2024 18:26:07



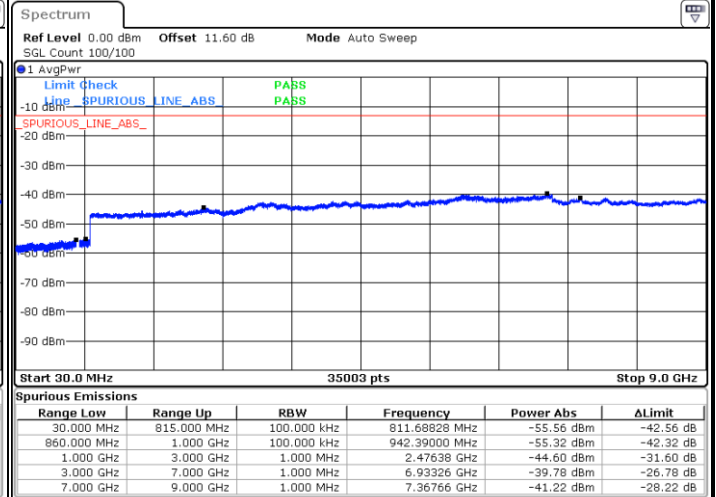
LTE Band 5 / 3MHz

Lowest Channel / QPSK



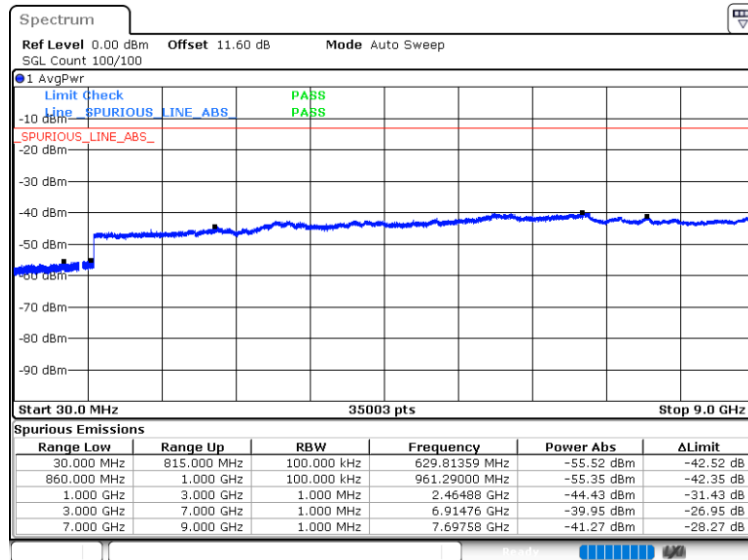
Date: 27.NOV.2024 21:53:26

Middle Channel / QPSK



Date: 27.NOV.2024 21:54:57

Highest Channel / QPSK

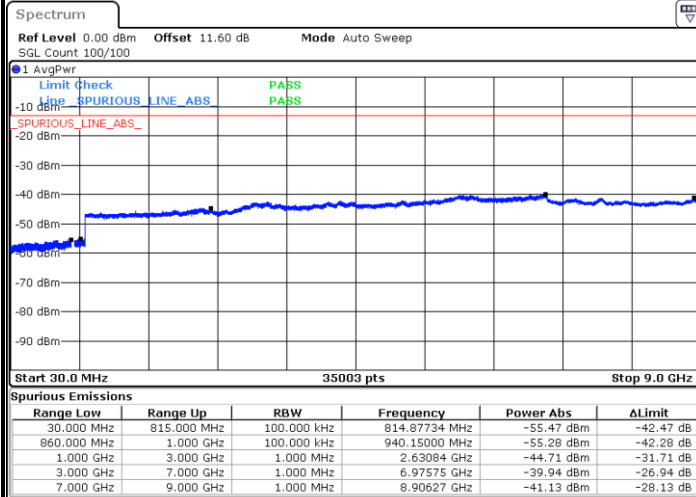


Date: 27.NOV.2024 21:56:28



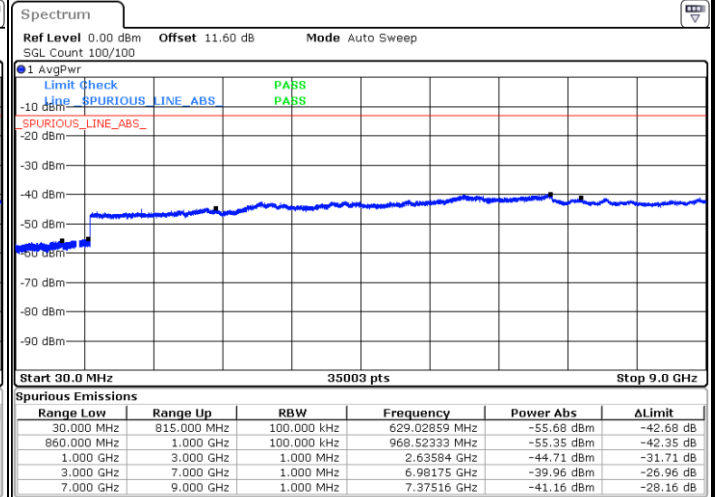
LTE Band 5 / 5MHz

Lowest Channel / QPSK



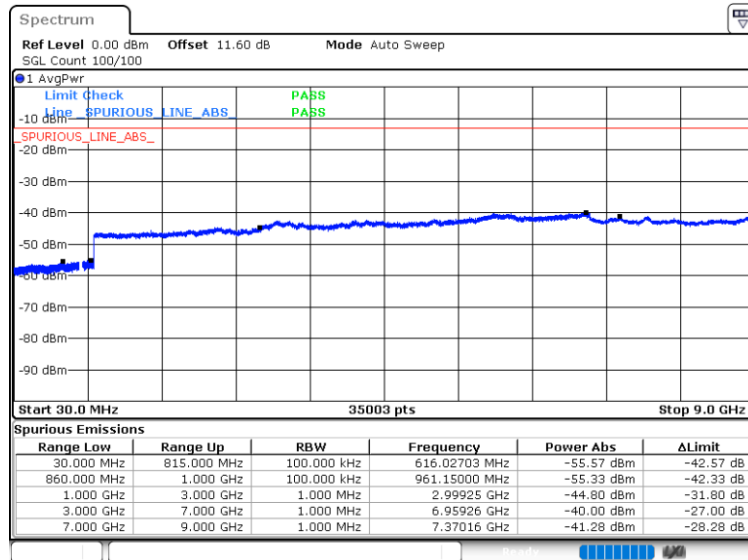
Date: 27.NOV.2024 23:44:11

Middle Channel / QPSK



Date: 27.NOV.2024 23:45:42

Highest Channel / QPSK

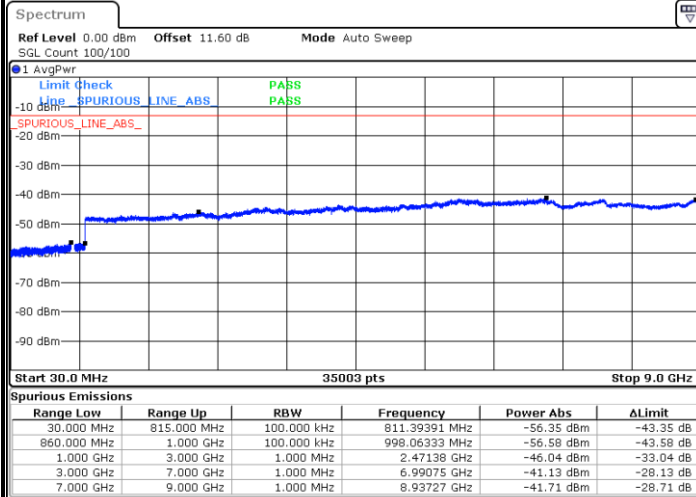


Date: 27.NOV.2024 23:47:11



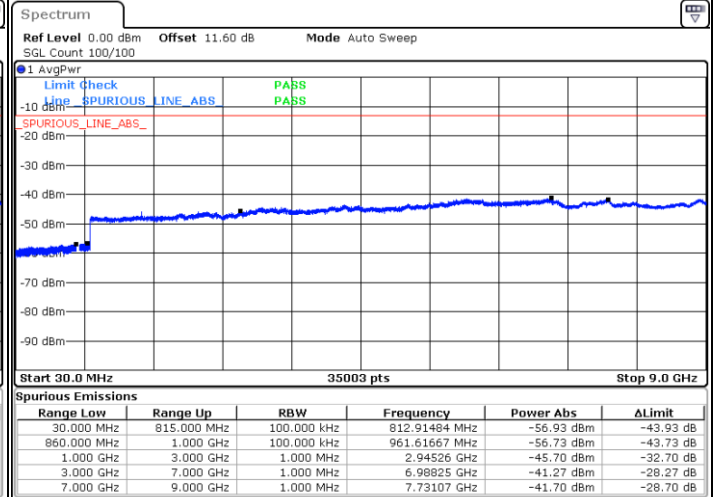
LTE Band 5 / 10MHz

Lowest Channel / QPSK



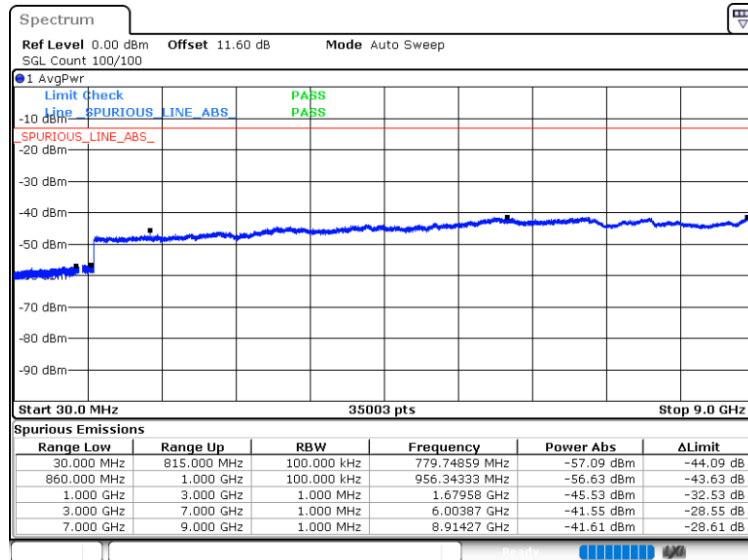
Date: 27.FEB.2025 14:16:11

Middle Channel / QPSK



Date: 27.FEB.2025 14:17:24

Highest Channel / QPSK



Date: 27.FEB.2025 14:18:36

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5 ppm
		Deviation (ppm)	Result
35	Normal Voltage	0.0153	PASS
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0216	
20	Maximum Voltage	0.0092	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0219	

Note: Normal Voltage = 3.88 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.48 V.

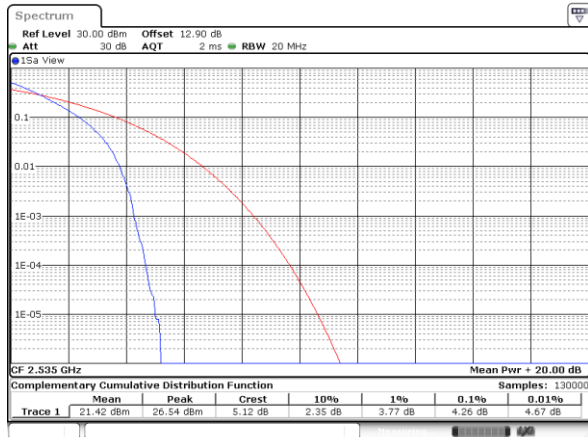
**LTE Band 7****Peak-to-Average Ratio**

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.26	5.28	5.80	-	PASS



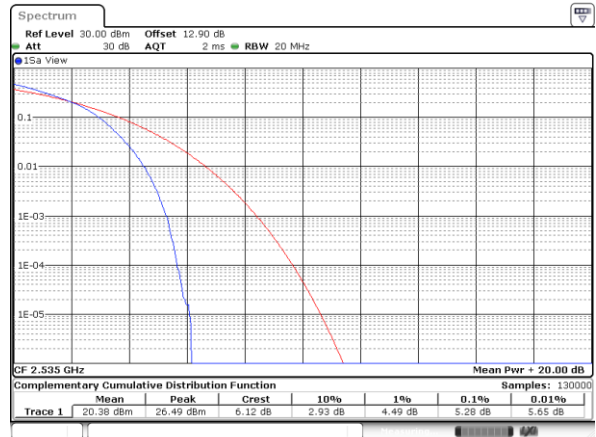
LTE Band 7 / 20MHz / QPSK

Middle Channel / Full RB



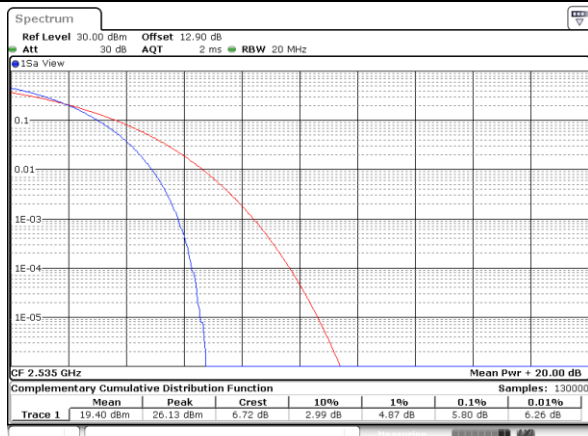
LTE Band 7 / 20MHz / 16QAM

Middle Channel / Full RB



LTE Band 7 / 20MHz / 64QAM

Middle Channel / Full RB



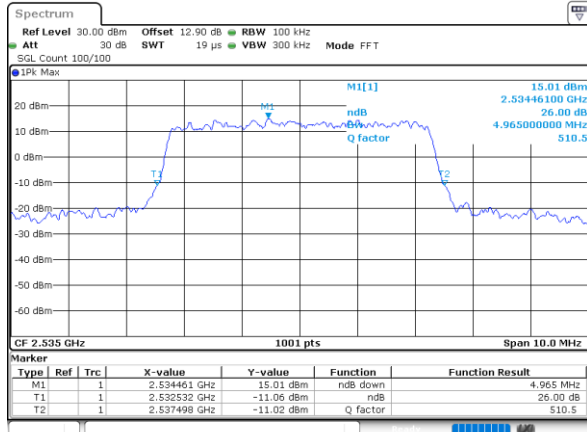
**26dB Bandwidth**

Mode	LTE Band 7 : 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	-	-	-	-	4.96	4.89	9.71	9.66	14.26	14.26	18.90	19.18
Mode	LTE Band 7 : 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	-	-	-	-	4.88	-	9.89	-	14.23	-	19.06	-



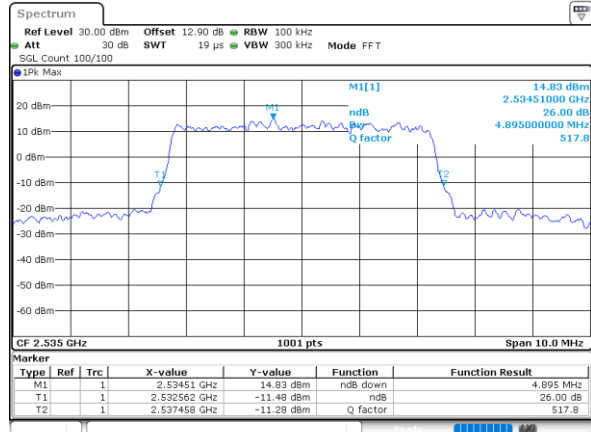
LTE Band 7

Middle Channel / 5MHz / QPSK



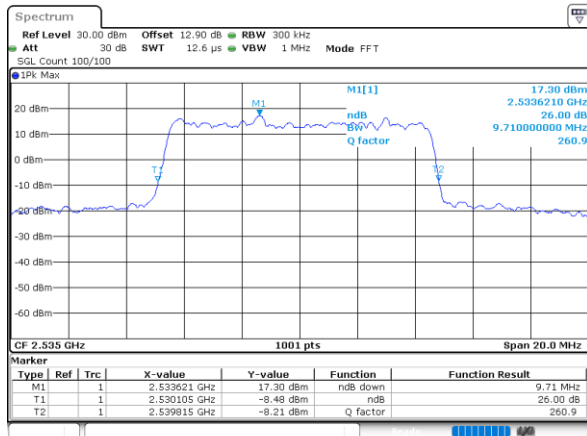
Date: 27.NOV.2024 09:21:57

Middle Channel / 5MHz / 16QAM



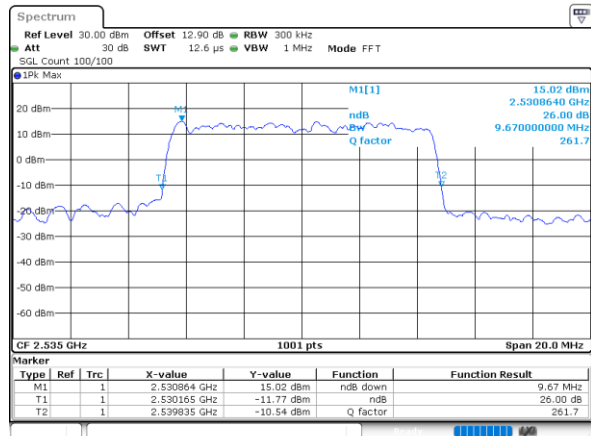
Date: 27.NOV.2024 09:22:134

Middle Channel / 10MHz / QPSK



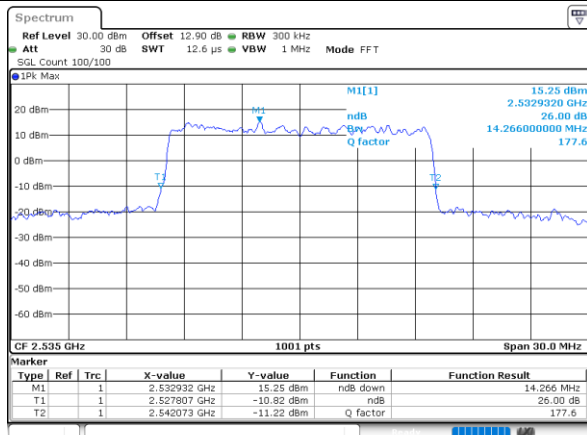
Date: 27.NOV.2024 12:56:42

Middle Channel / 10MHz / 16QAM



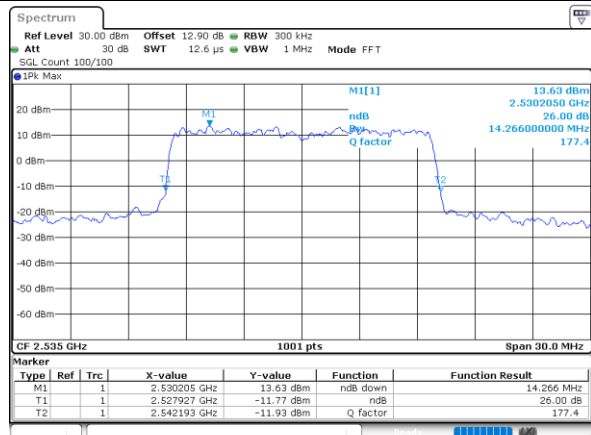
Date: 27.NOV.2024 12:51:15

Middle Channel / 15MHz / QPSK



Date: 27.NOV.2024 13:50:01

Middle Channel / 15MHz / 16QAM

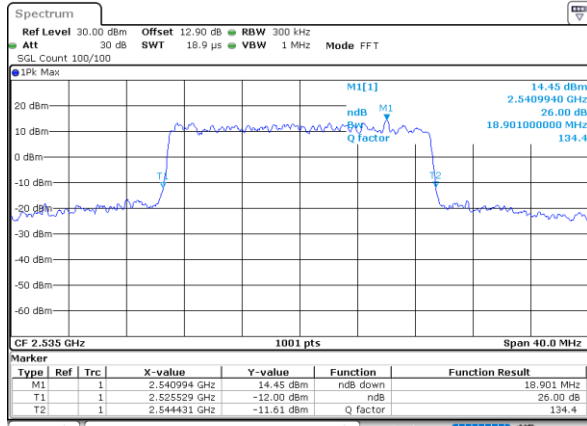


Date: 27.NOV.2024 13:50:38

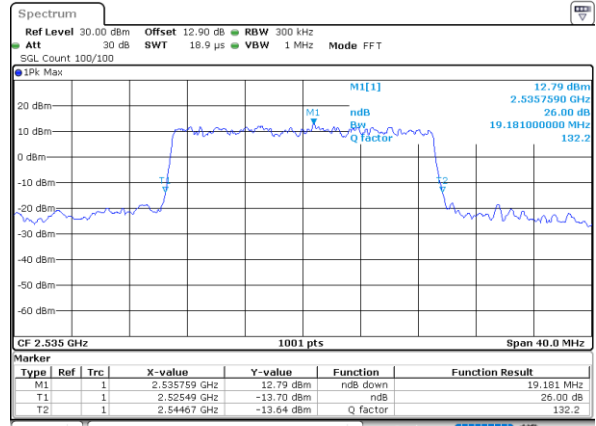


LTE Band 7

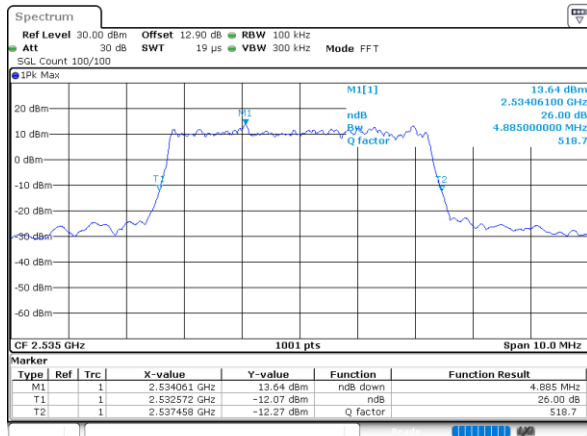
Middle Channel / 20MHz / QPSK



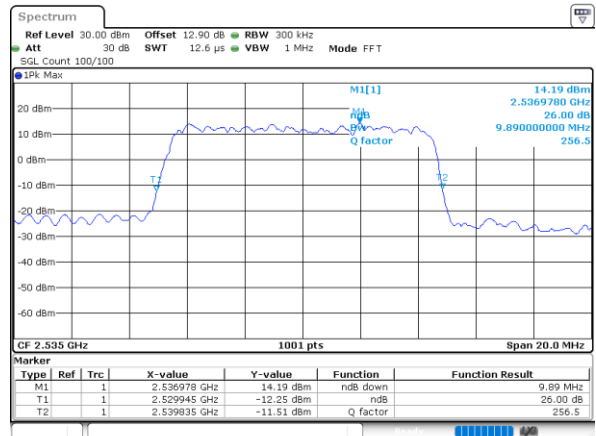
Middle Channel / 20MHz / 16QAM



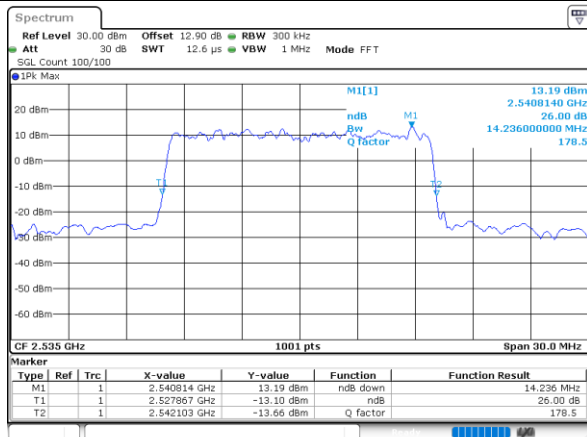
Middle Channel / 5MHz / 64QAM



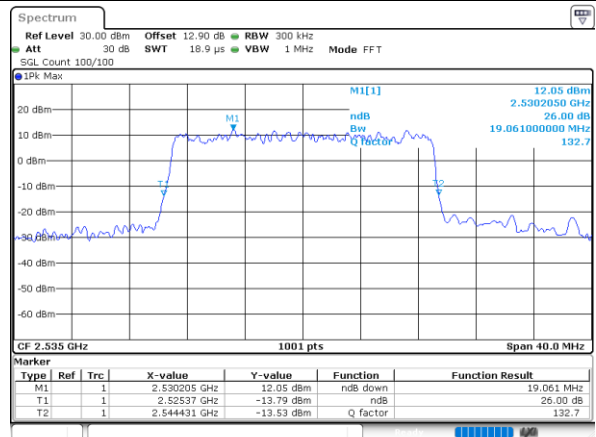
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



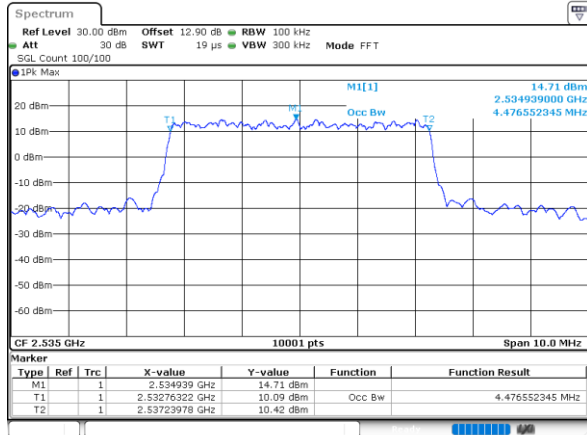
**Occupied Bandwidth**

Mode	LTE Band 7 : 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	-	-	-	-	4.47	4.49	9.09	9.06	13.46	13.45	17.83	17.91
Mode	LTE Band 7 : 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	-	-	-	-	4.50	-	8.98	-	13.45	-	17.81	-



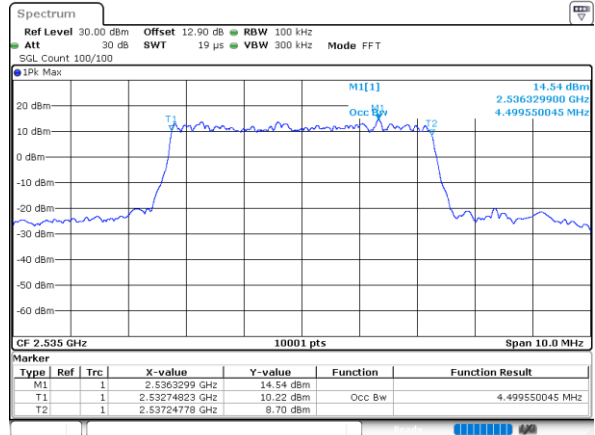
LTE Band 7

Middle Channel / 5MHz / QPSK



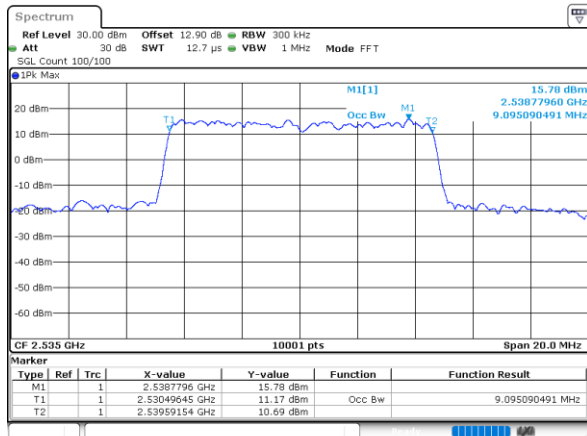
Date: 27.NOV.2024 09:20:04

Middle Channel / 5MHz / 16QAM



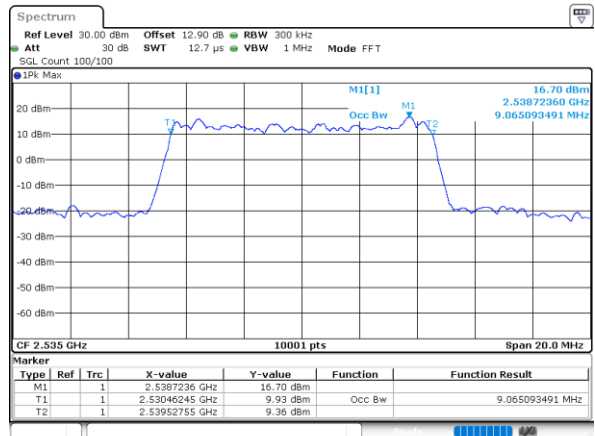
Date: 27.NOV.2024 09:20:19

Middle Channel / 10MHz / QPSK



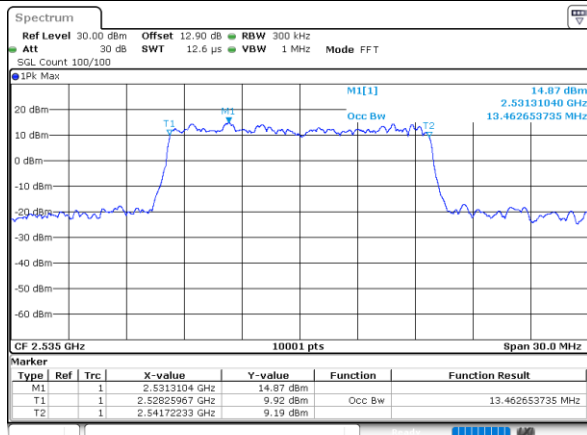
Date: 27.NOV.2024 12:49:01

Middle Channel / 10MHz / 16QAM



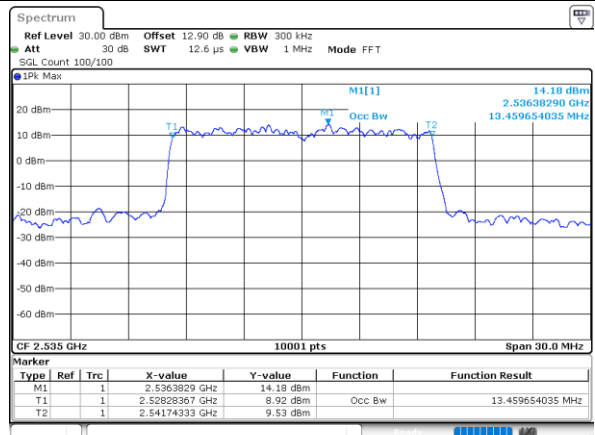
Date: 27.NOV.2024 12:49:11

Middle Channel / 15MHz / QPSK



Date: 27.NOV.2024 13:48:00

Middle Channel / 15MHz / 16QAM

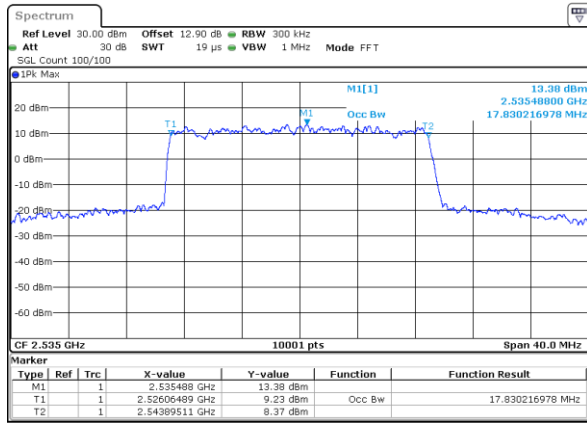


Date: 27.NOV.2024 13:48:35



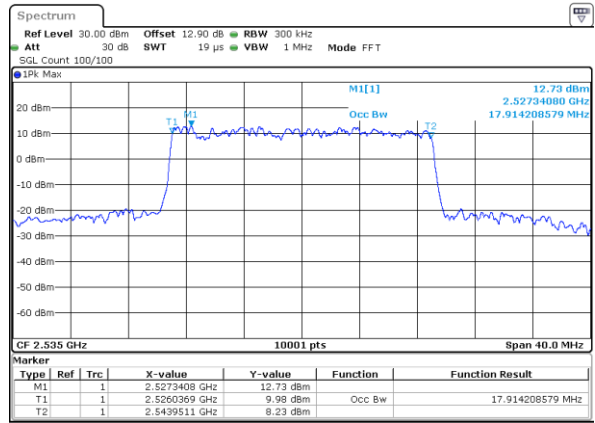
LTE Band 7

Middle Channel / 20MHz / QPSK



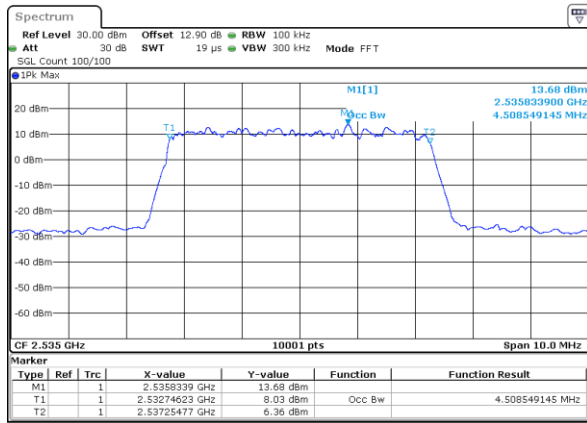
Date: 27.NOV.2024 15:28:46

Middle Channel / 20MHz / 16QAM



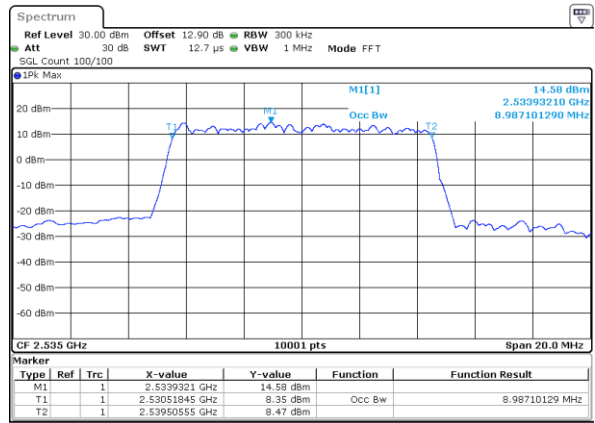
Date: 27.NOV.2024 15:34:40

Middle Channel / 5MHz / 64QAM



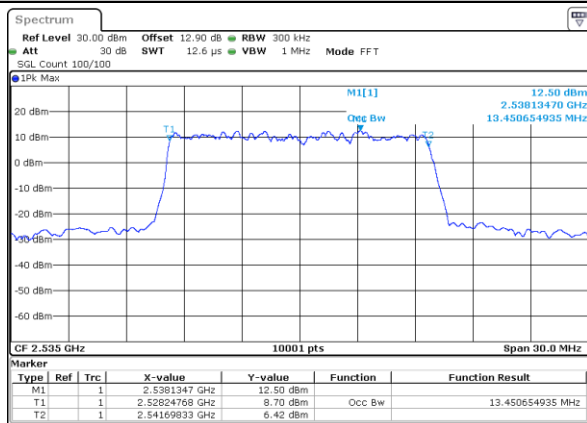
Date: 27.NOV.2024 09:21:16

Middle Channel / 10MHz / 64QAM



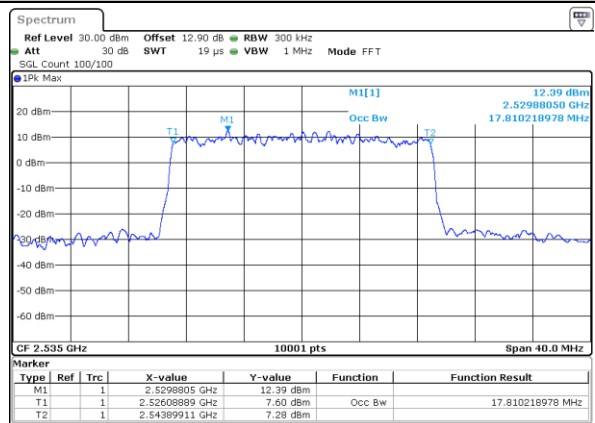
Date: 27.NOV.2024 12:50:07

Middle Channel / 15MHz / 64QAM

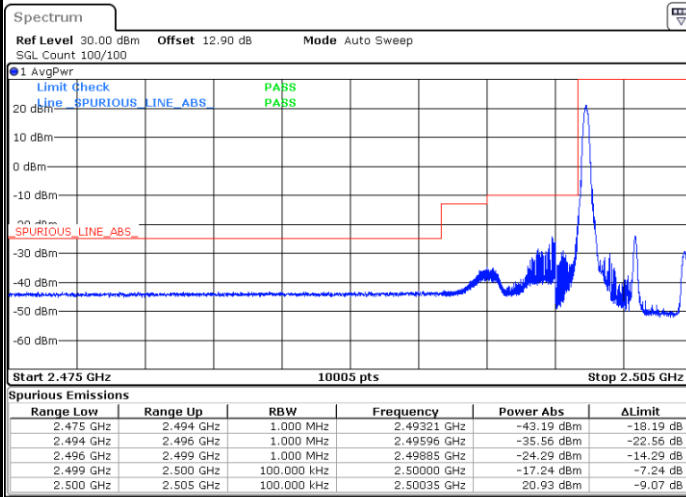


Date: 27.NOV.2024 13:49:13

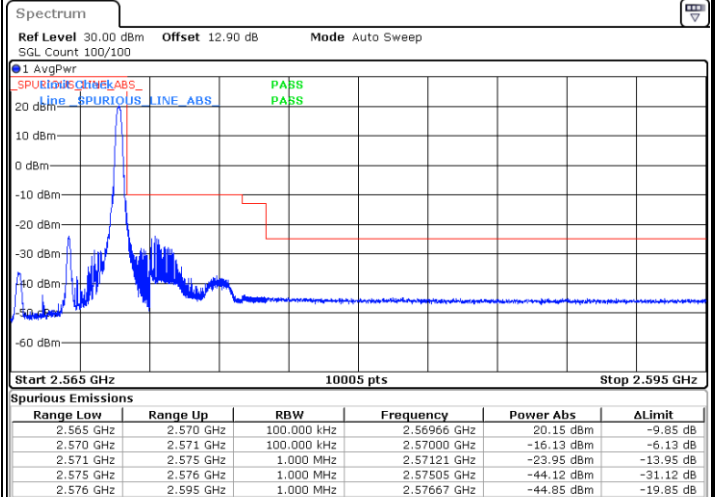
Middle Channel / 20MHz / 64QAM



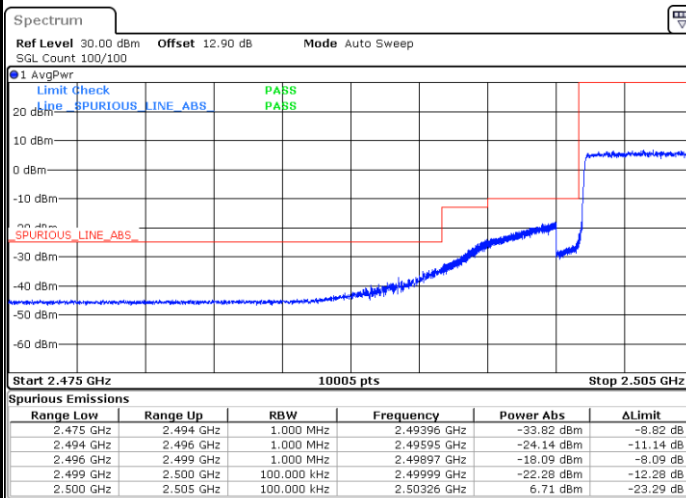
Date: 27.NOV.2024 15:35:16

**Conducted Band Edge****LTE Band 7 / 5MHz / QPSK****Lowest Band Edge / 1 RB**

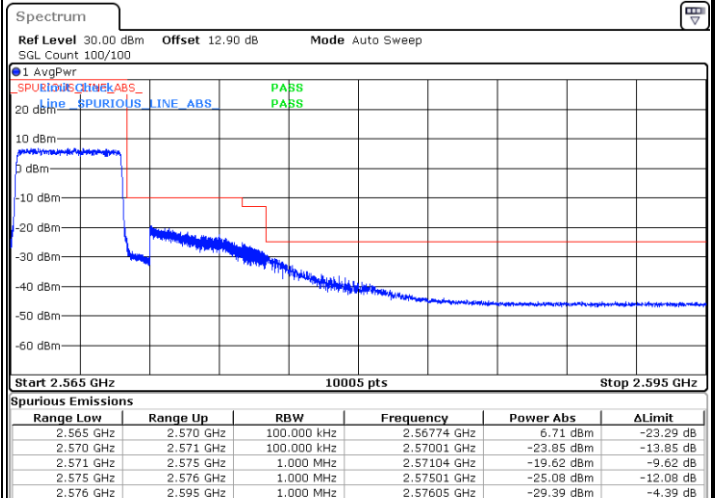
Date: 27.NOV.2024 09:00:48

Highest Band Edge / 1 RB

Date: 28.FEB.2025 09:46:22

Lowest Band Edge / Full RB

Date: 28.FEB.2025 00:30:51

Highest Band Edge / Full RB

Date: 28.FEB.2025 09:48:38