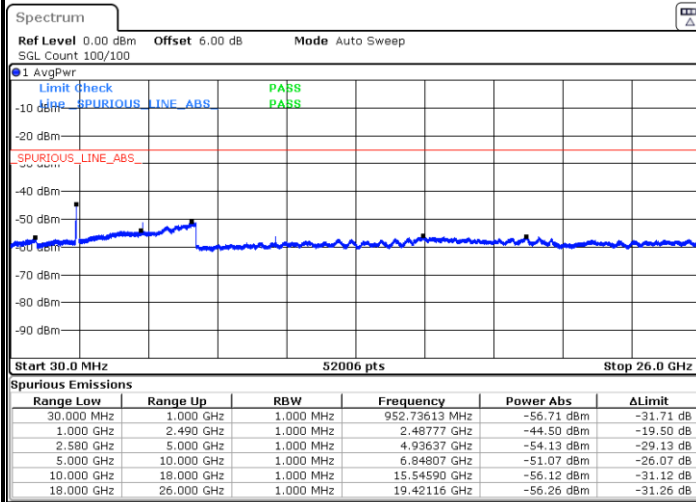




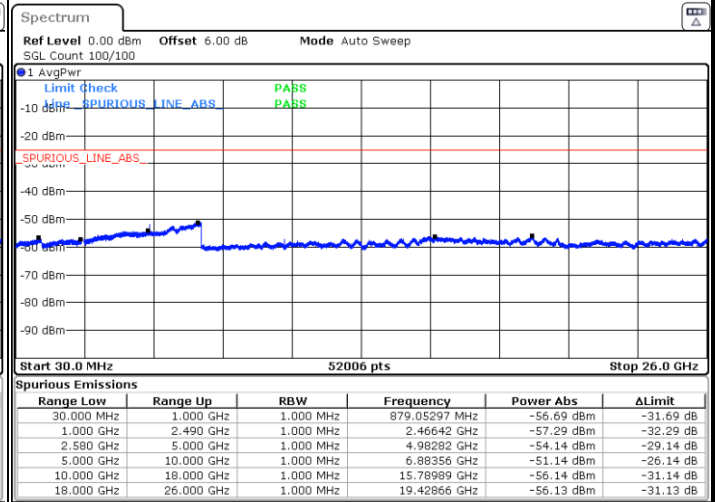
LTE Band 7 / 15MHz

Lowest Channel / QPSK



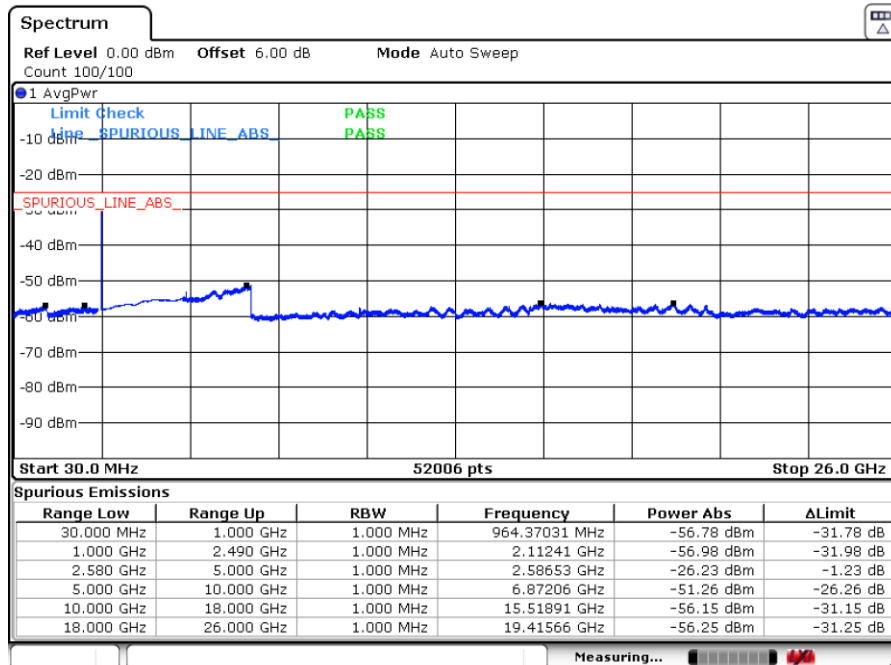
Date: 21 MAR 2025 02:14:52

Middle Channel / QPSK



Date: 21 MAR 2025 02:22:42

Highest Channel / QPSK

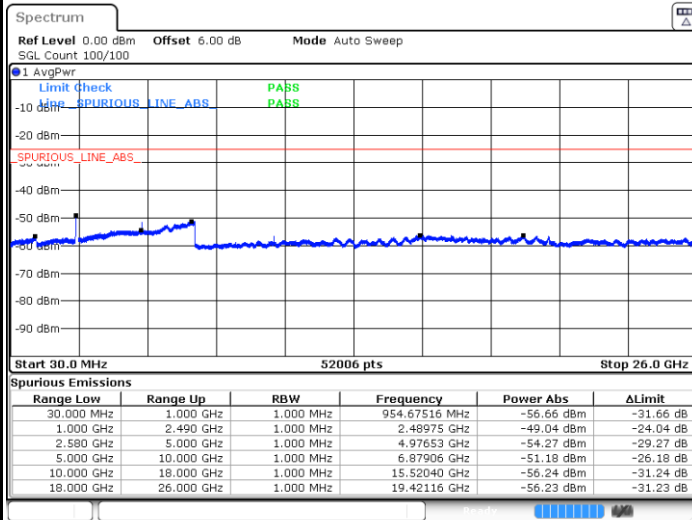


Date: 21 MAR 2025 03:12:11



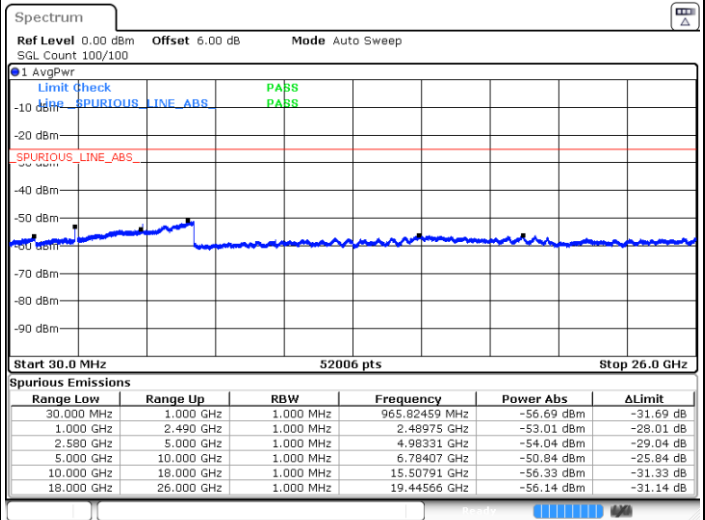
LTE Band 7 / 20MHz

Lowest Channel / QPSK



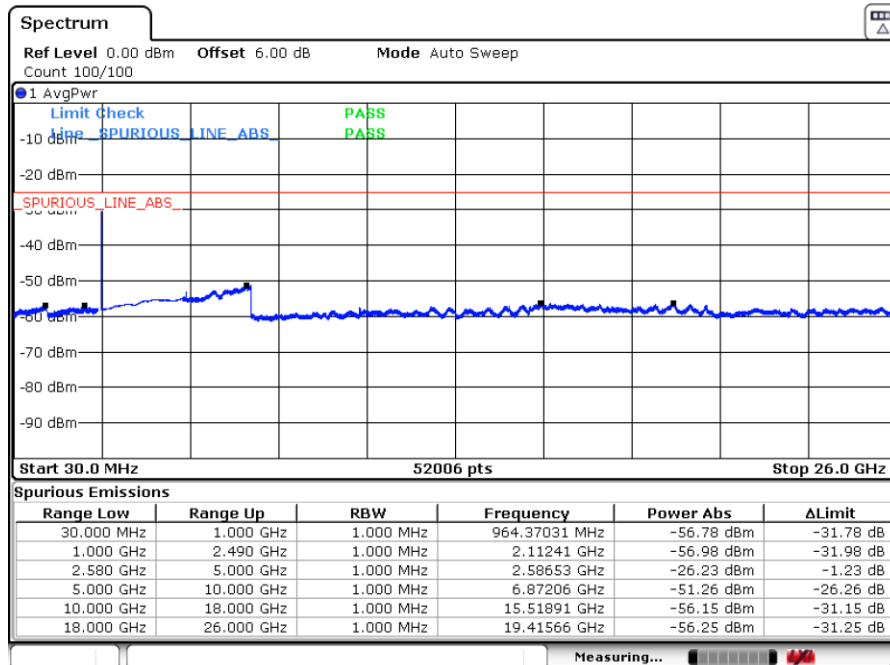
Date: 21 MAR 2025 02:31:49

Middle Channel / QPSK



Date: 21 MAR 2025 02:39:40

Highest Channel / QPSK



Date: 21 MAR 2025 03:12:11

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =7.2 V. ; Battery End Point (BEP) =6.8 V. ; Maximum Voltage =8.26 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

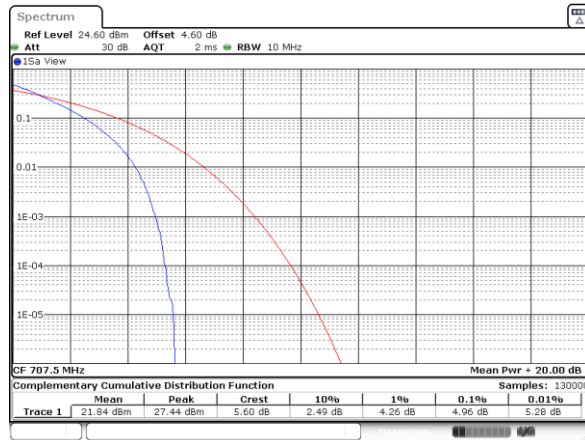
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.86	6.26	PASS

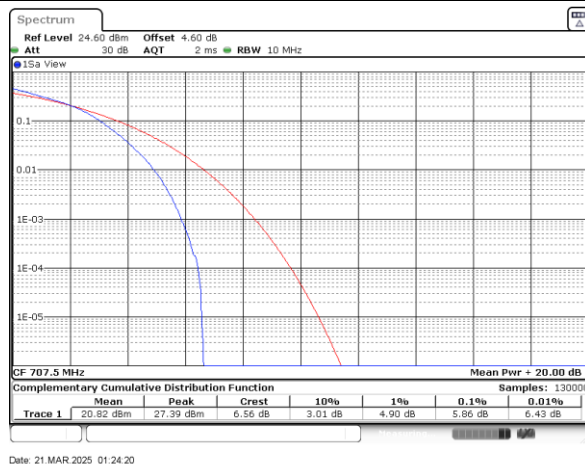


LTE Band 12 / 10MHz

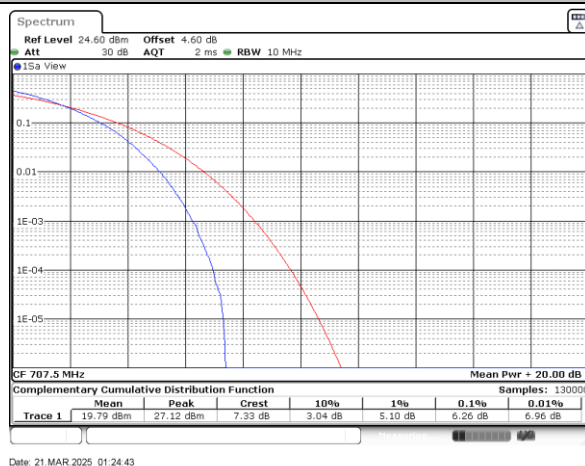
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM

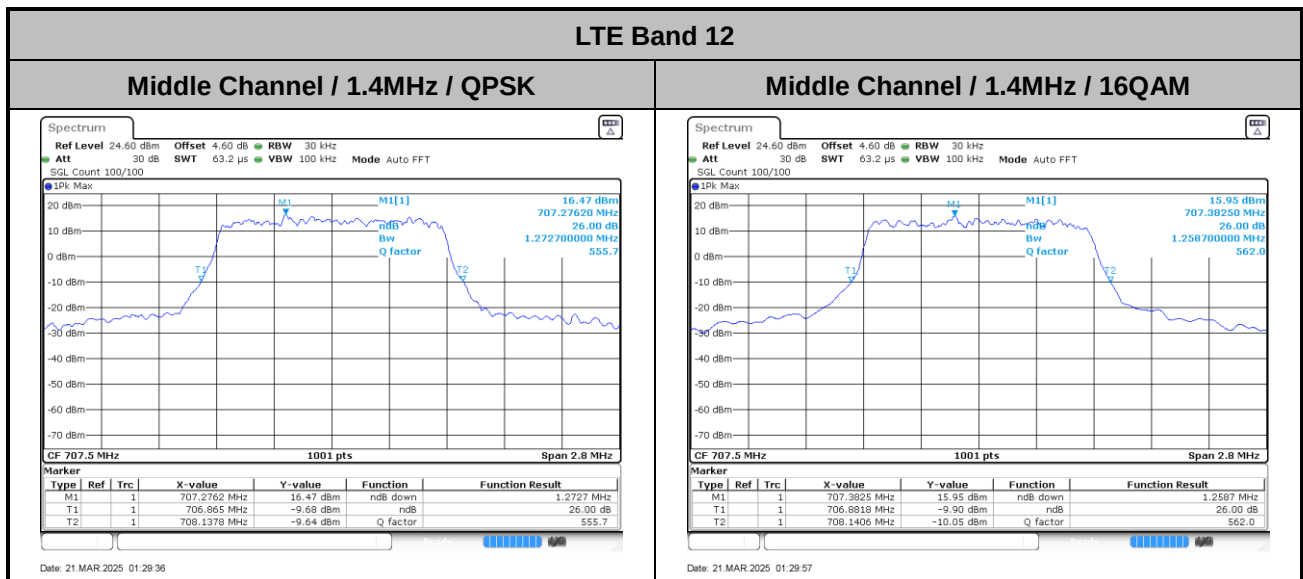


Middle Channel / Full RB/ 64QAM



**26dB Bandwidth**

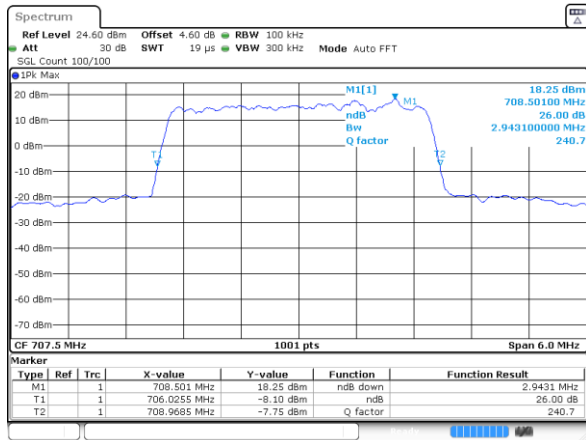
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.27	1.26
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.94	2.96
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.01	4.97
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.75	10.01





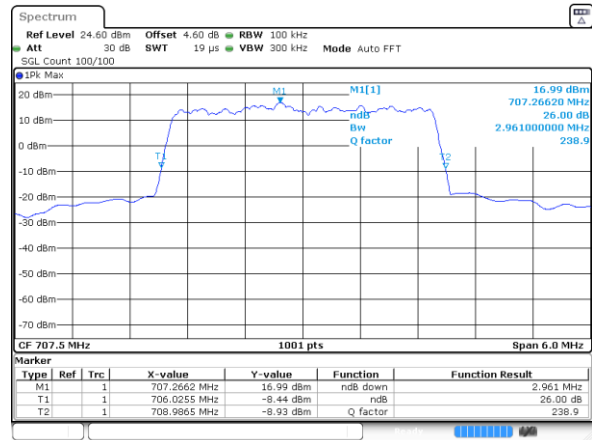
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 21 MAR 2025 01:28:12

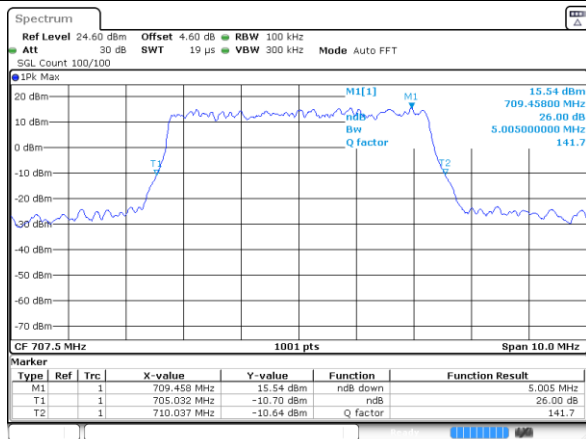
Middle Channel / 3MHz / 16QAM



Date: 21 MAR 2025 01:28:33

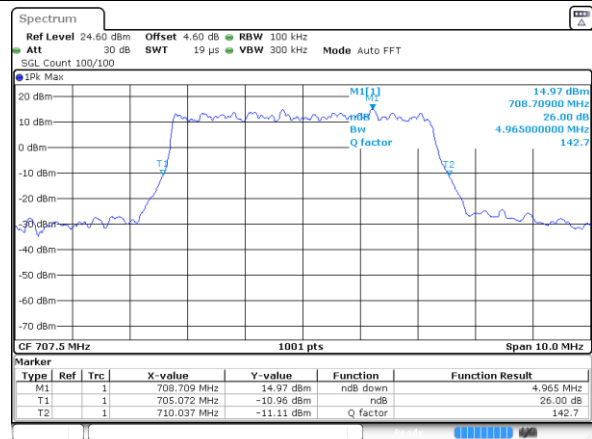
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 21 MAR 2025 01:28:48

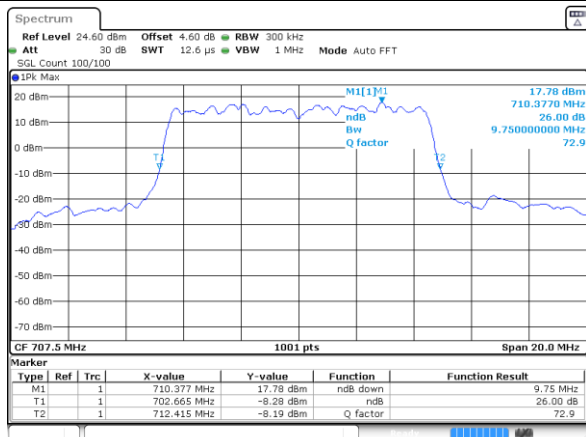
Middle Channel / 5MHz / 16QAM



Date: 21 MAR 2025 01:27:09

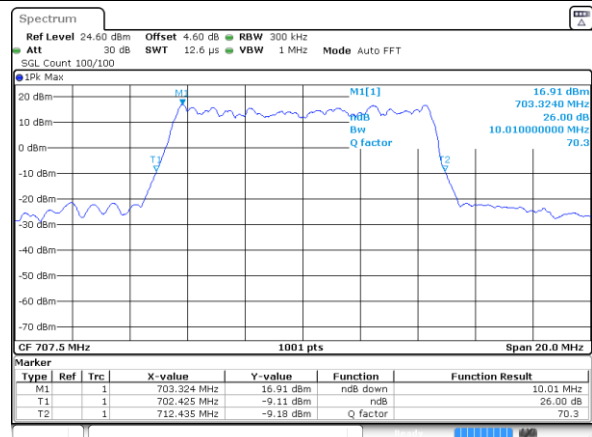
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 21 MAR 2025 01:25:45

Middle Channel / 10MHz / 16QAM

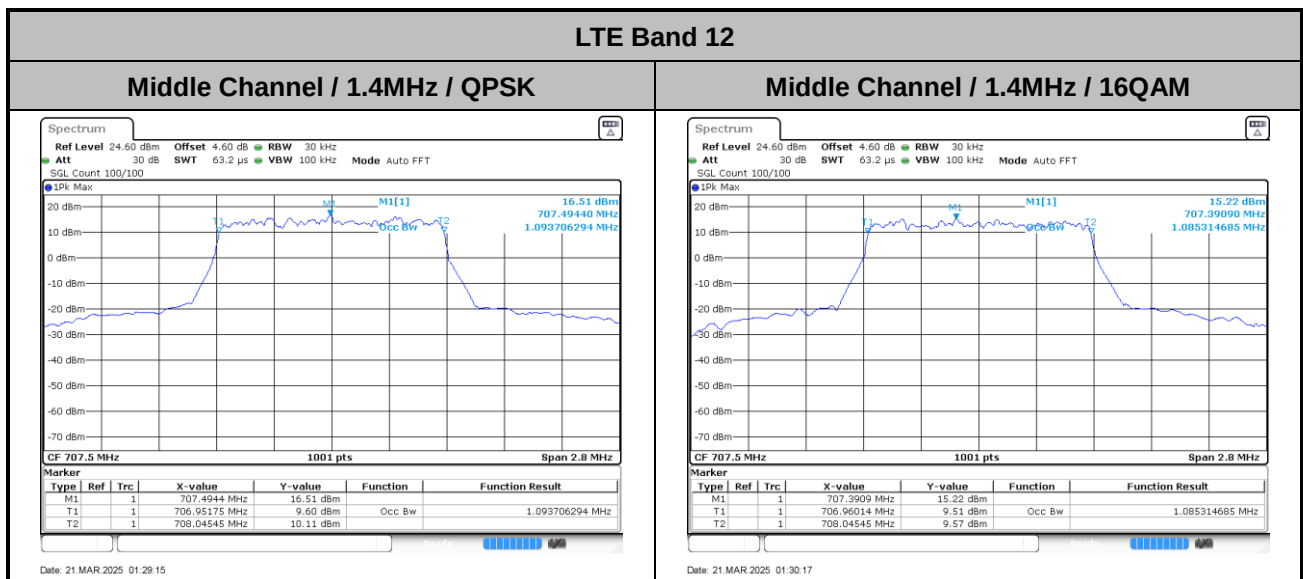


Date: 21 MAR 2025 01:26:06



Occupied Bandwidth

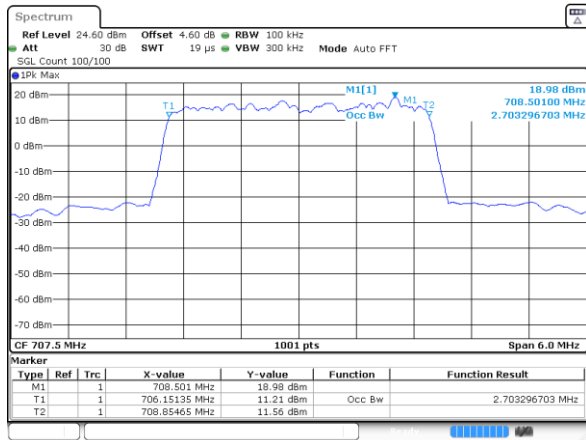
Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.09
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.70	2.71
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.51	4.52
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.03





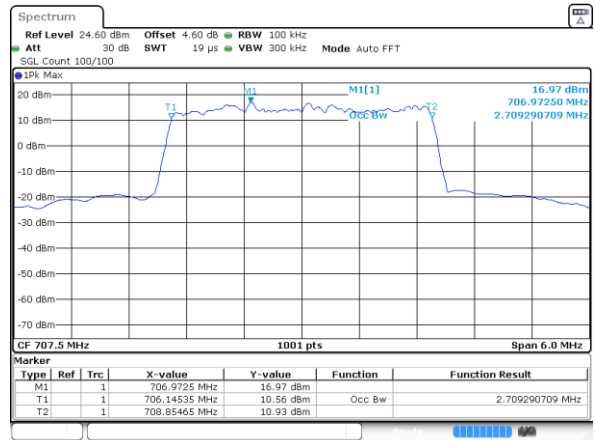
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 21 MAR 2025 01:27:51

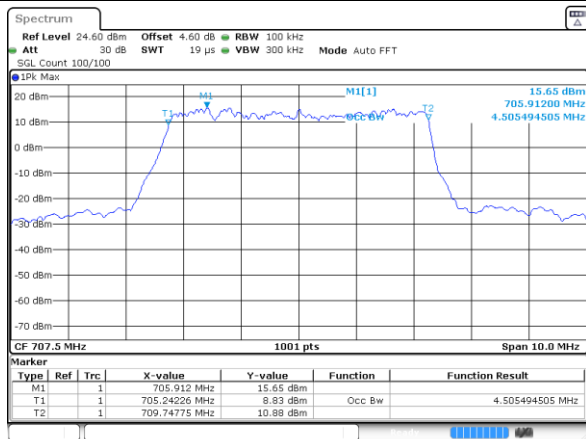
Middle Channel / 3MHz / 16QAM



Date: 21 MAR 2025 01:28:53

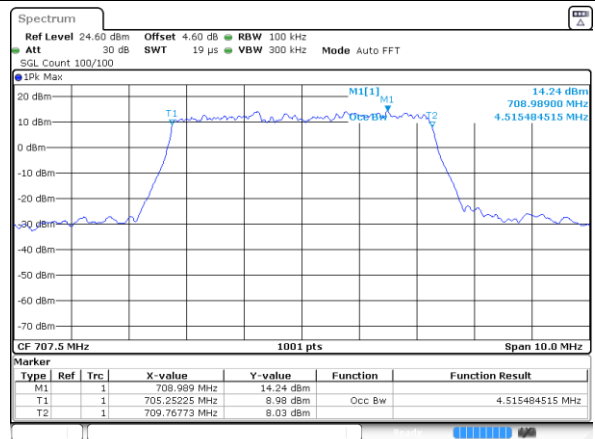
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 21 MAR 2025 01:26:27

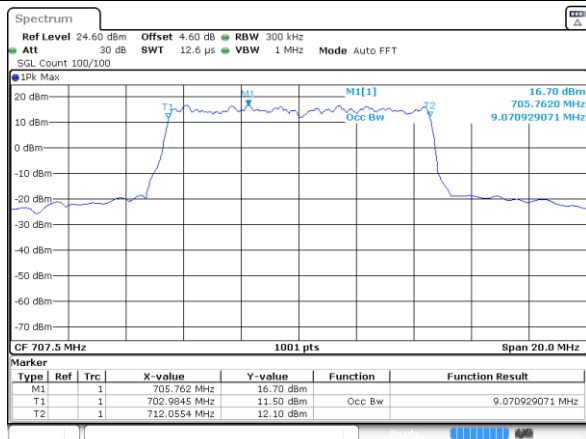
Middle Channel / 5MHz / 16QAM



Date: 21 MAR 2025 01:27:30

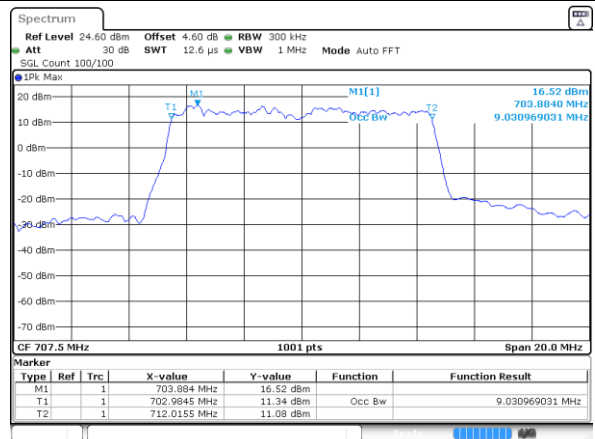
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 21 MAR 2025 01:25:03

Middle Channel / 10MHz / 16QAM



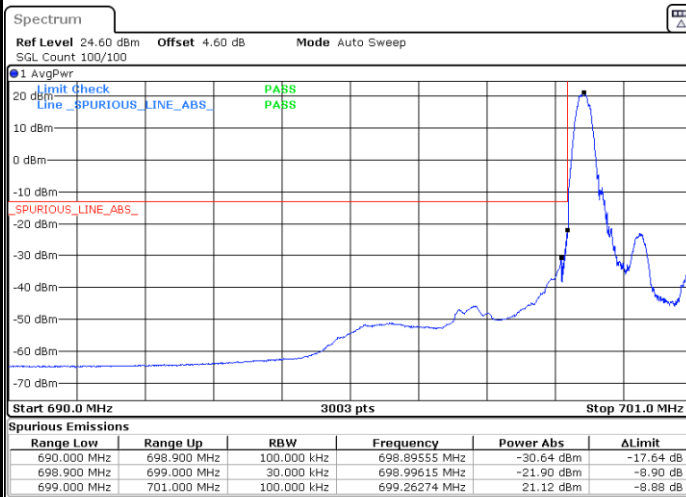
Date: 21 MAR 2025 01:25:24



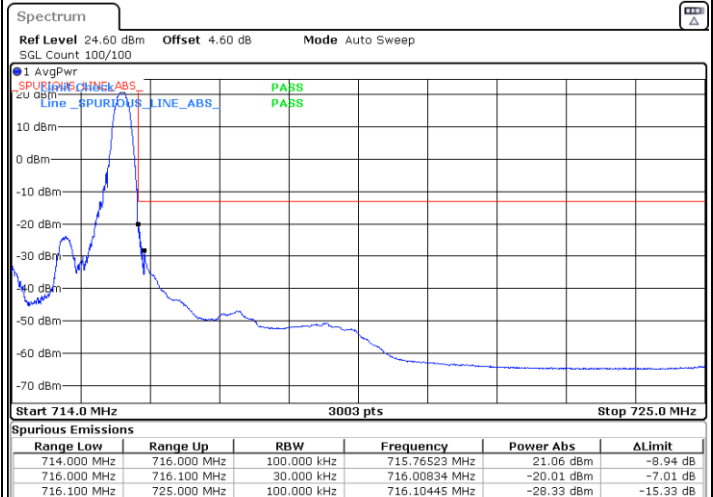
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

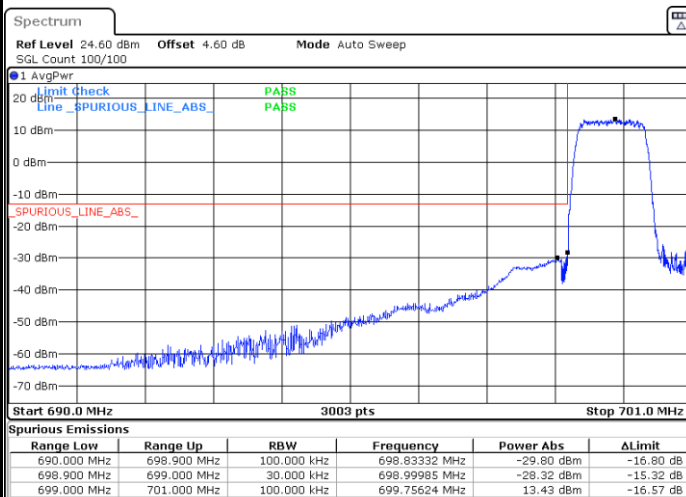
Lowest Band Edge / 1RB



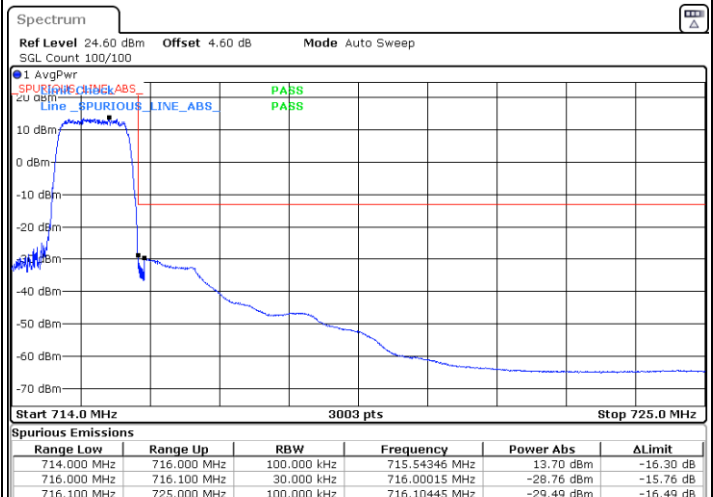
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



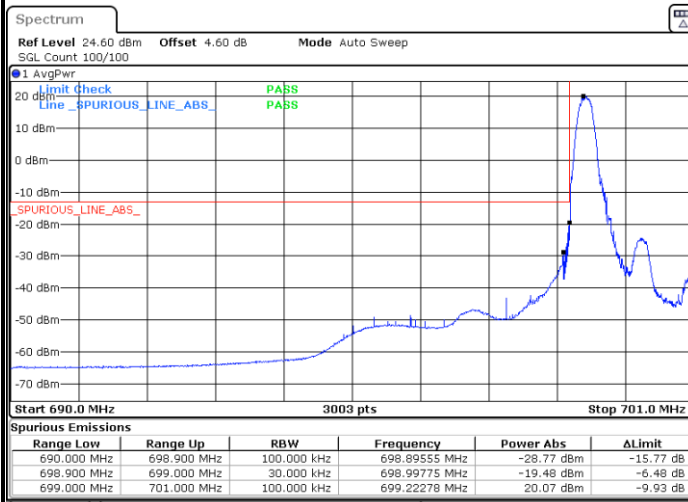
Highest Band Edge / Full RB



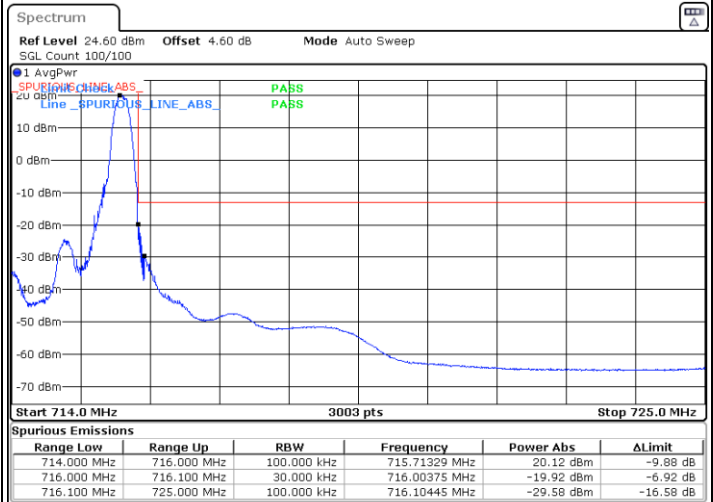


LTE Band 12 / 1.4MHz / 16QAM

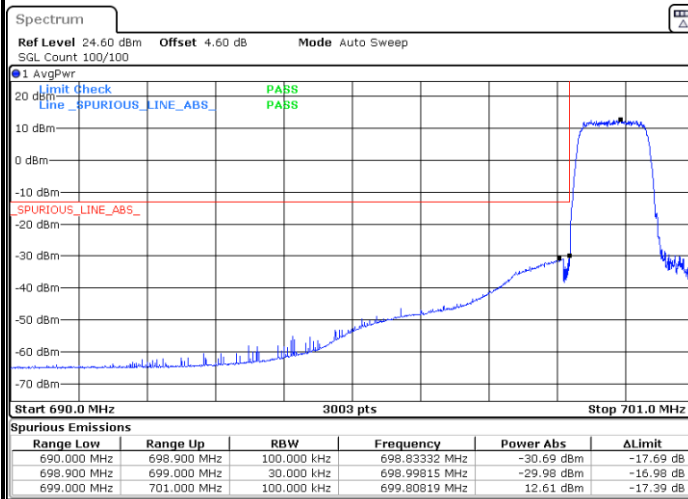
Lowest Band Edge / 1 RB



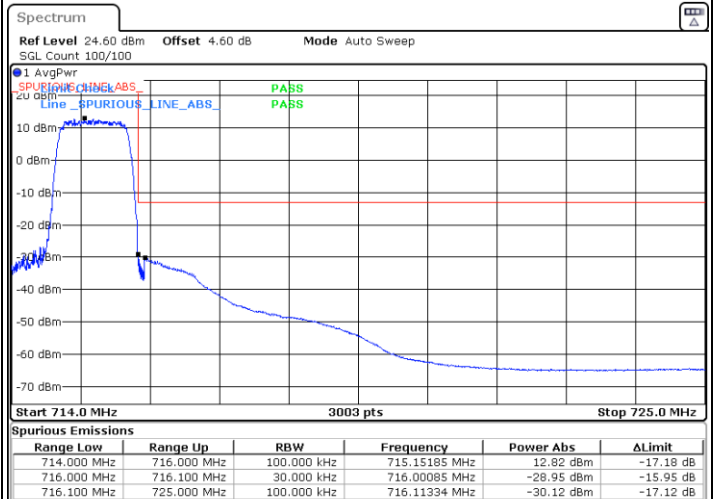
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



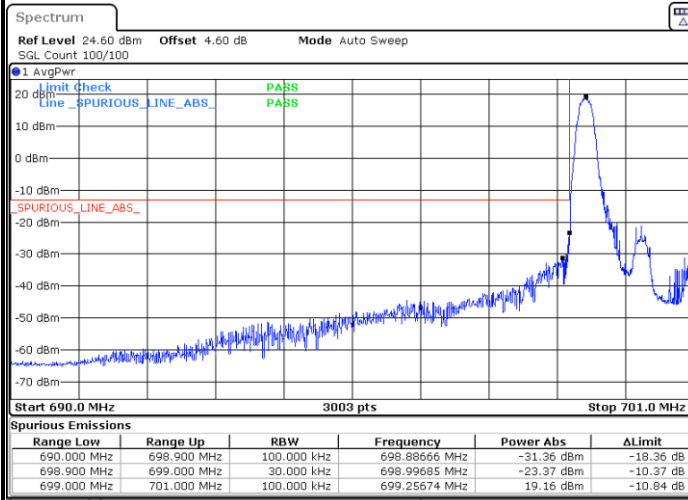
Highest Band Edge / Full RB



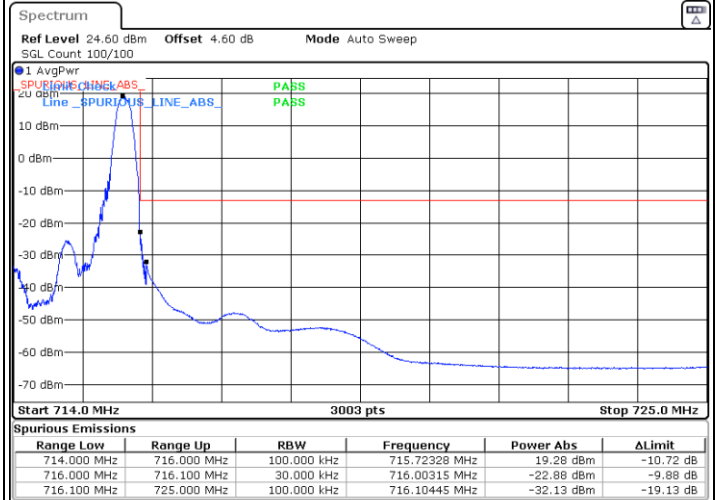


LTE Band 12 / 1.4MHz / 64QAM

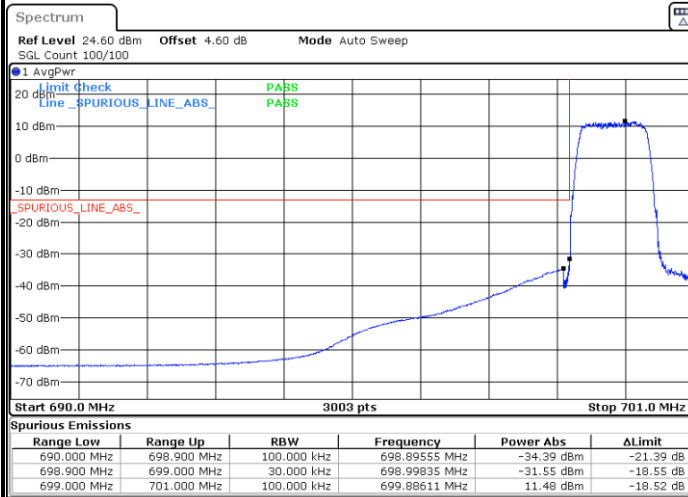
Lowest Band Edge / 1 RB



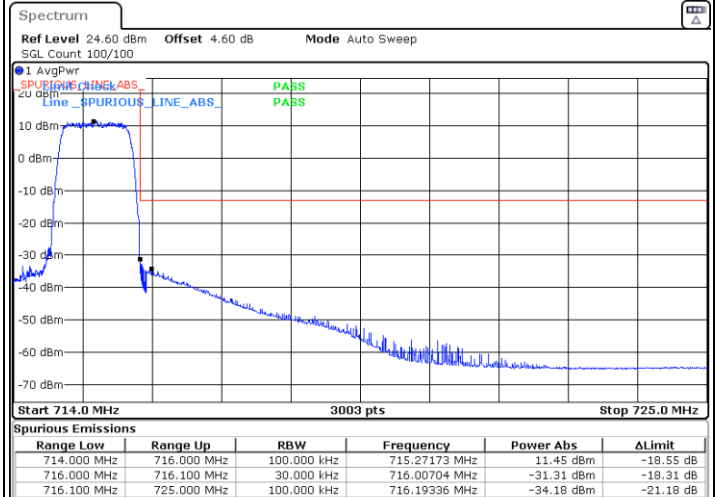
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



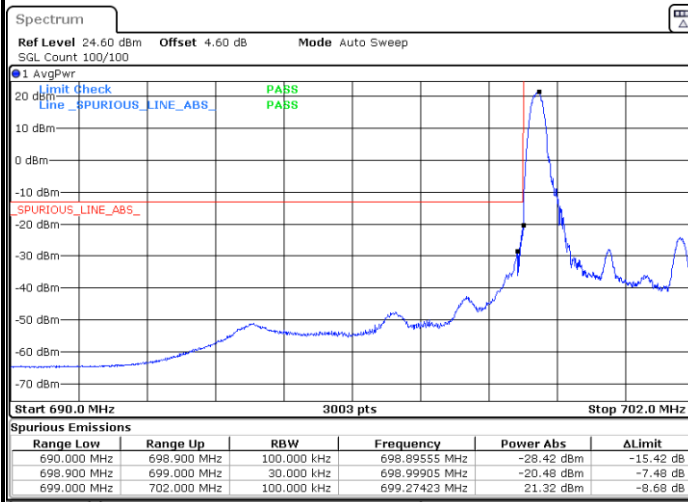
Highest Band Edge / Full RB



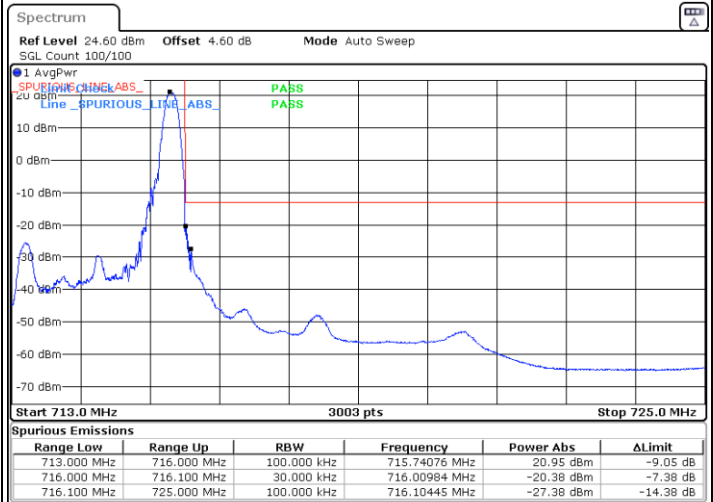


LTE Band 12 / 3MHz / QPSK

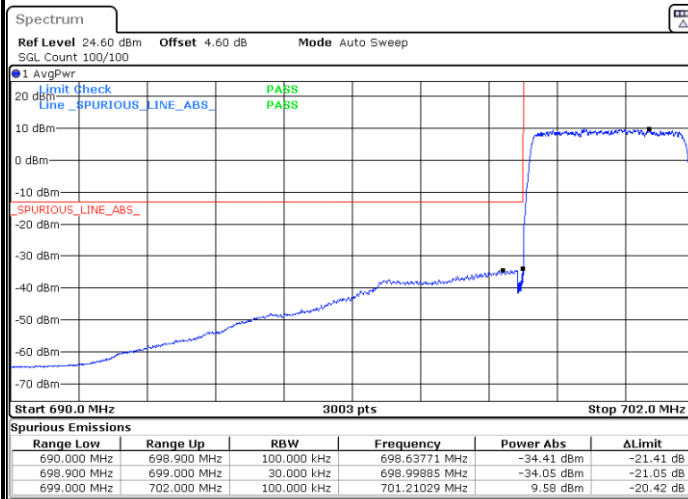
Lowest Band Edge / 1RB



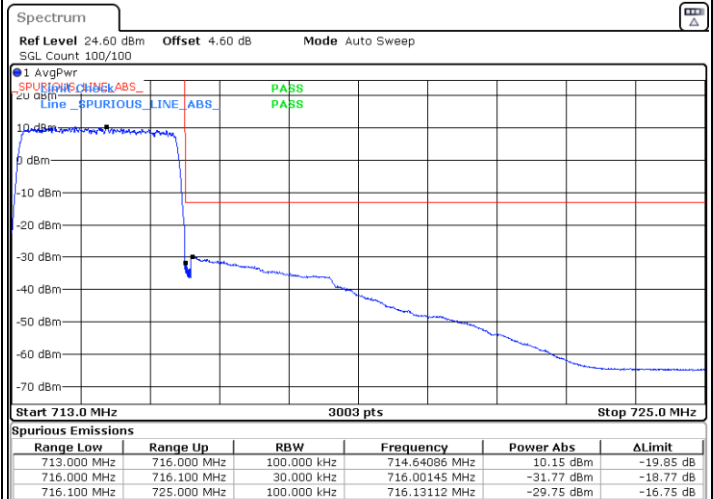
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



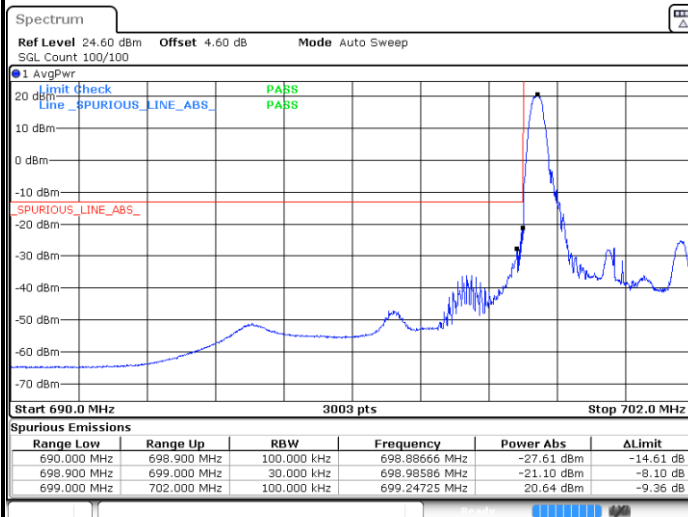
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 16QAM

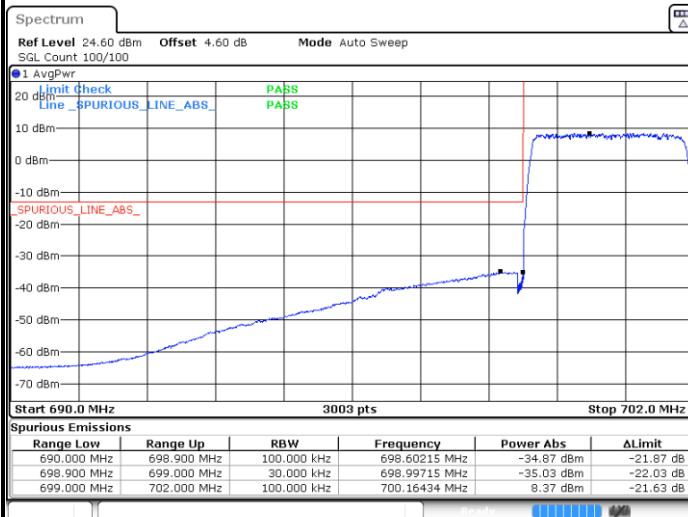
Lowest Band Edge / 1 RB



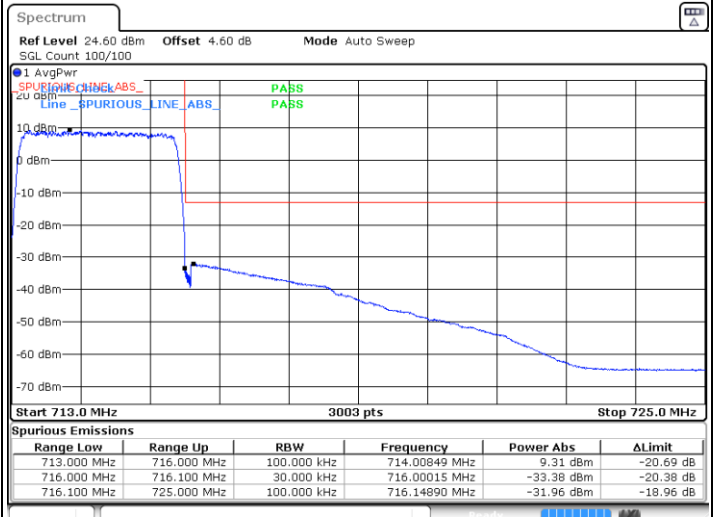
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



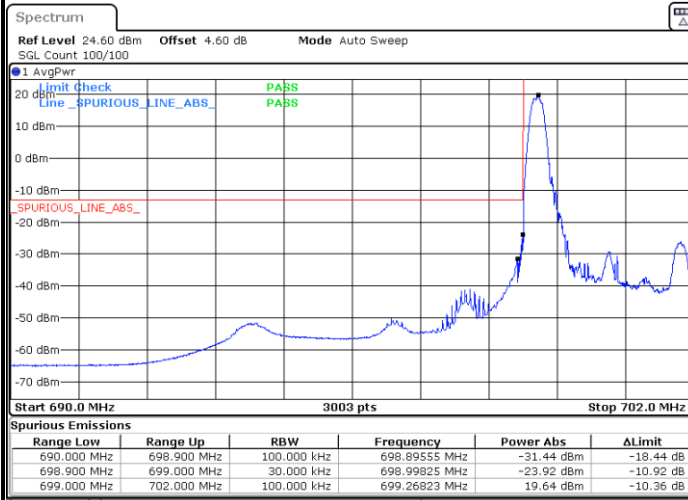
Highest Band Edge / Full RB



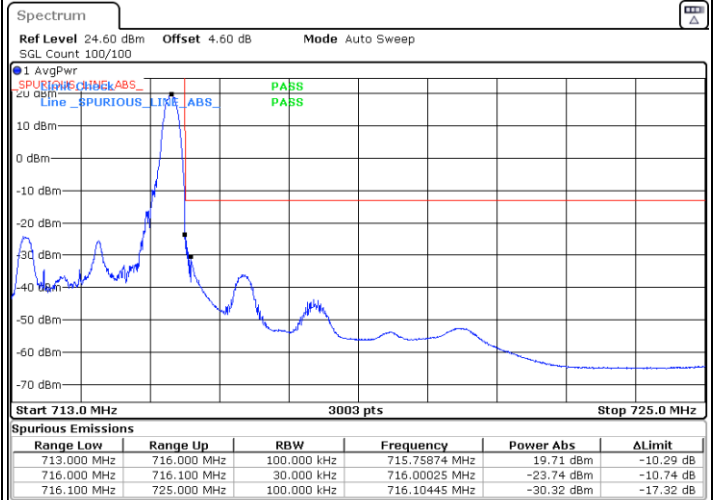


LTE Band 12 / 3MHz / 64QAM

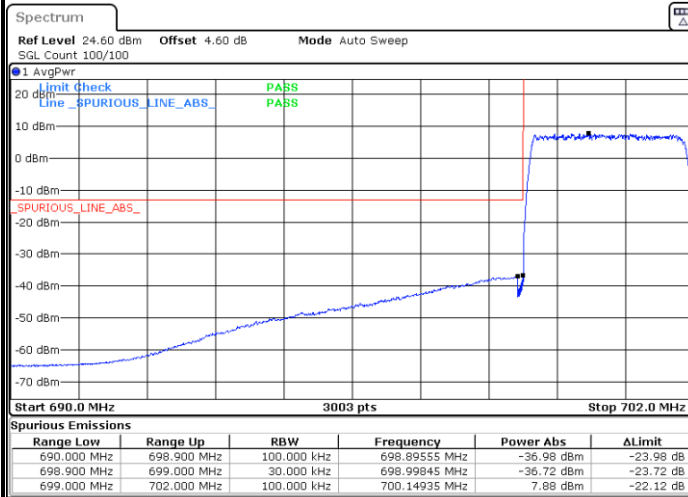
Lowest Band Edge / 1 RB



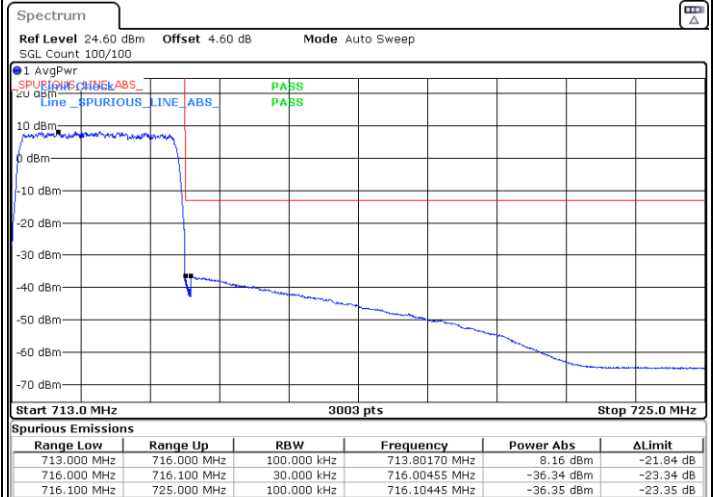
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



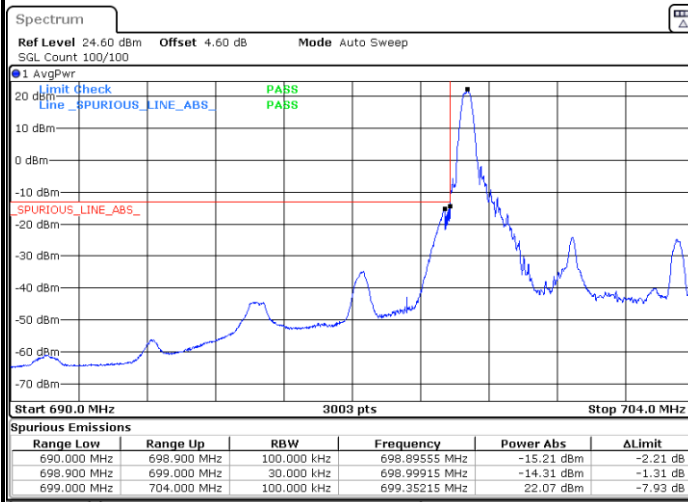
Highest Band Edge / Full RB



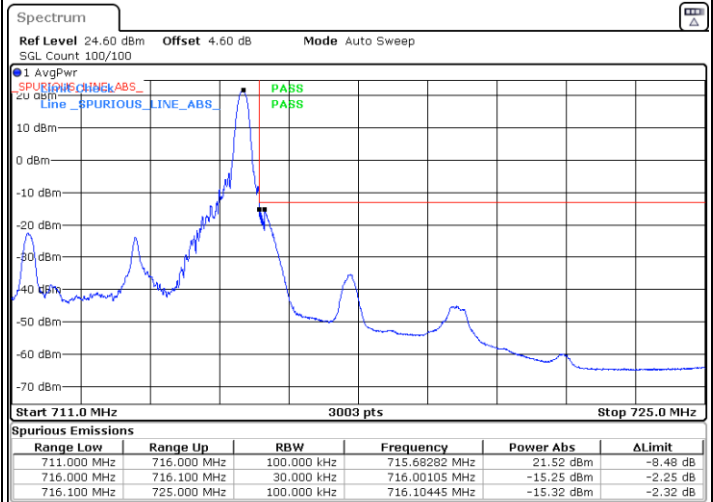


LTE Band 12 / 5MHz / QPSK

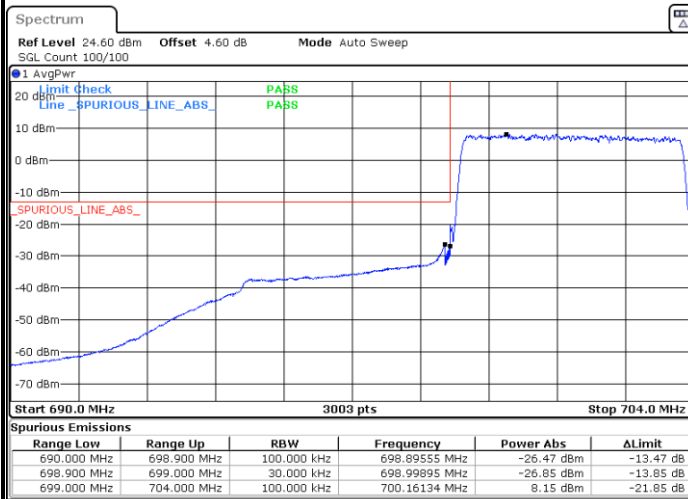
Lowest Band Edge / 1 RB



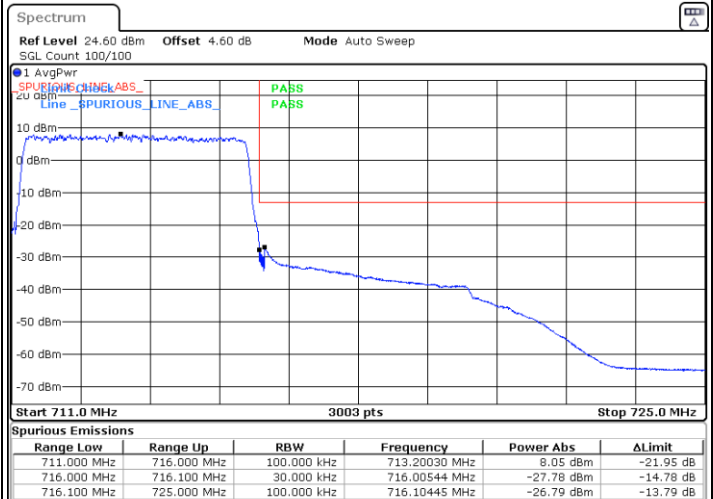
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



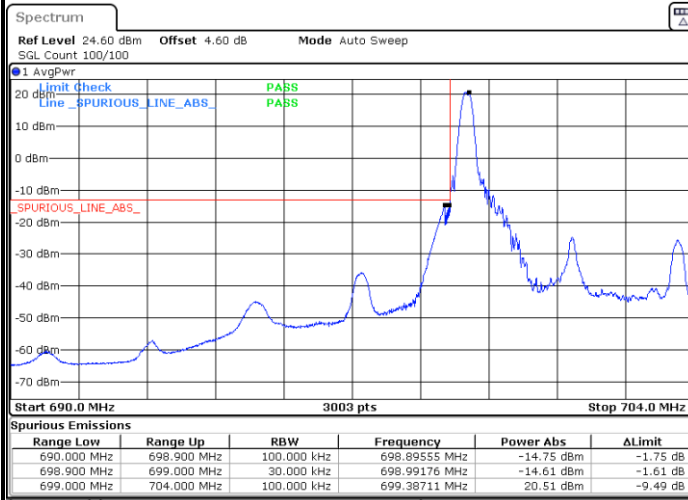
Highest Band Edge / Full RB



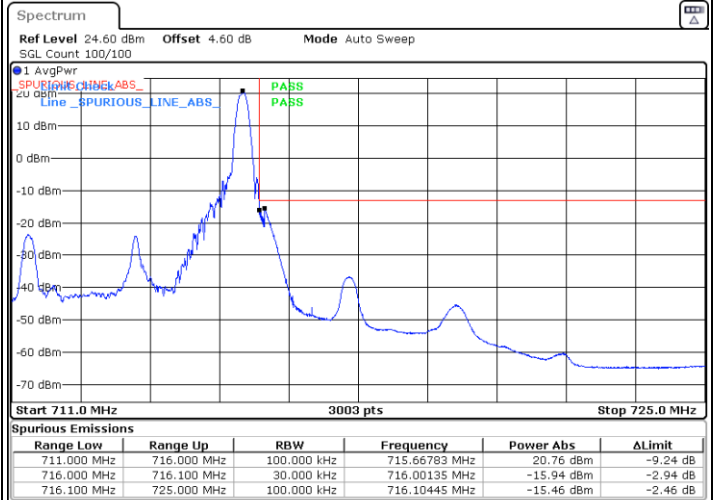


LTE Band 12 / 5MHz / 16QAM

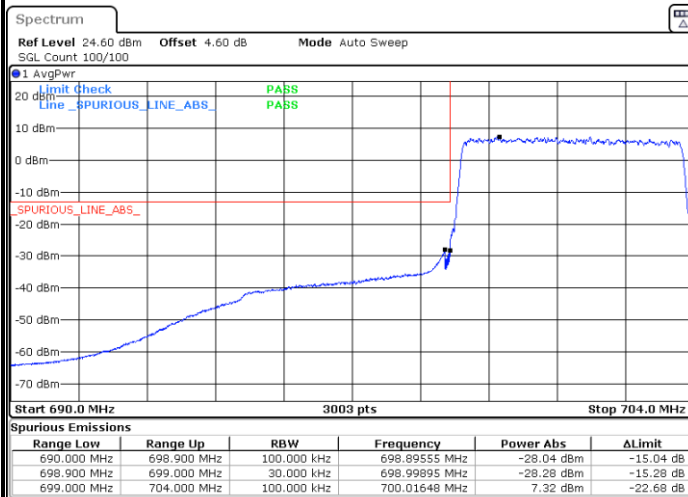
Lowest Band Edge / 1RB



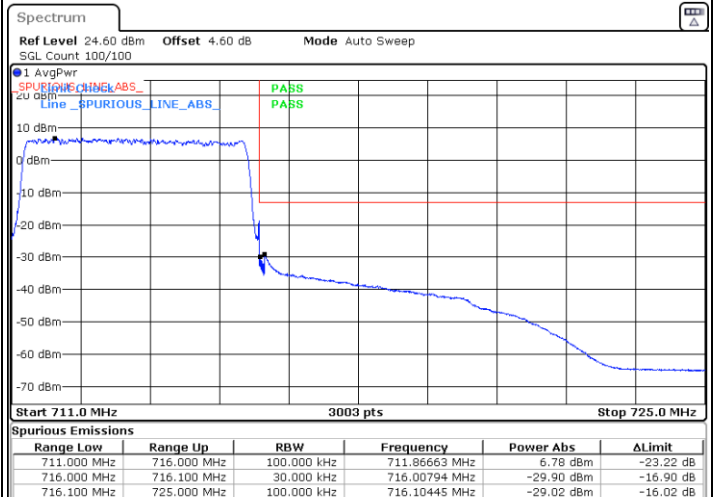
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



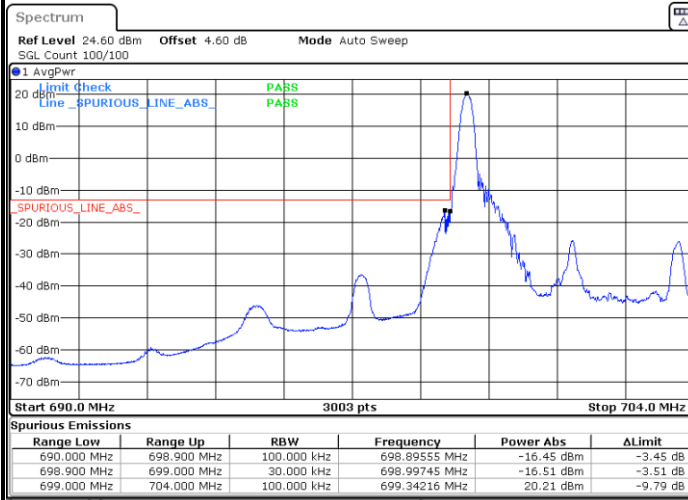
Highest Band Edge / Full RB



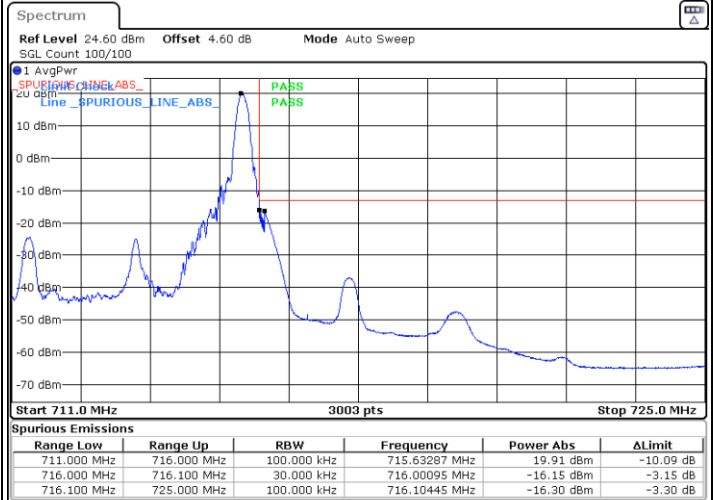


LTE Band 12 / 5MHz / 64QAM

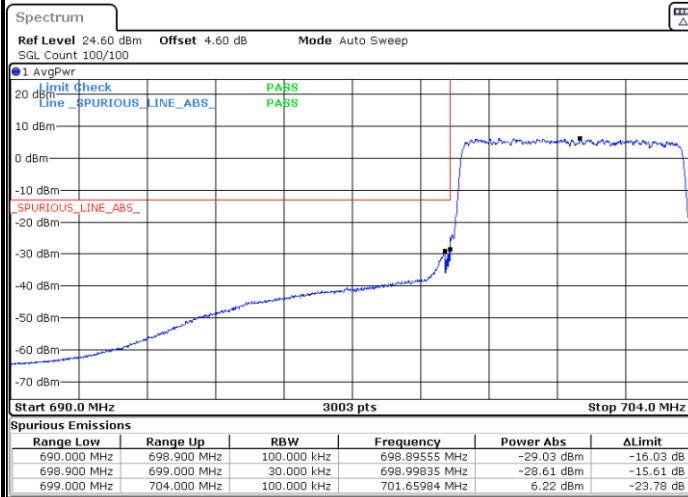
Lowest Band Edge / 1RB



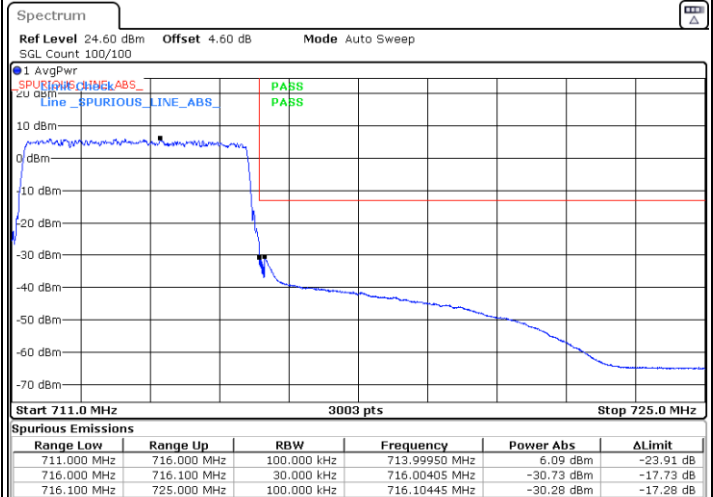
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



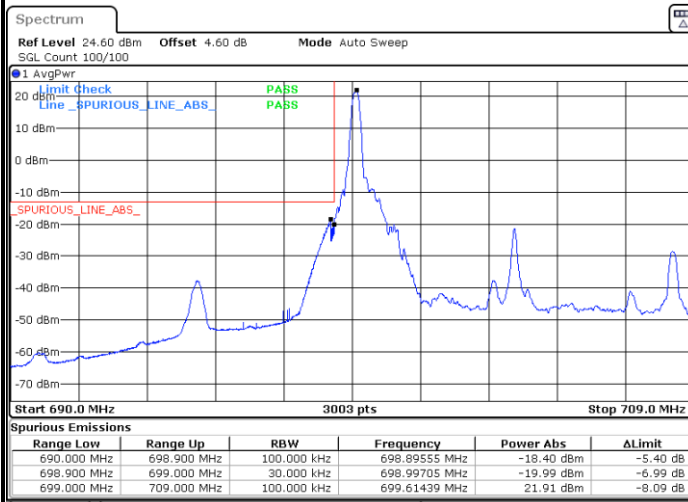
Highest Band Edge / Full RB



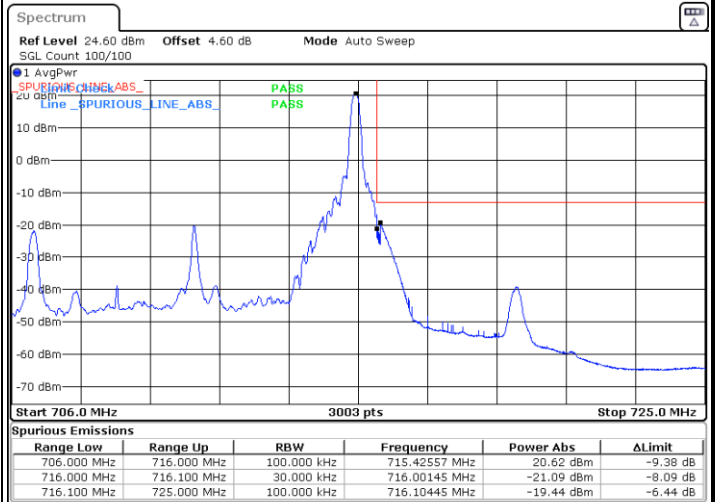


LTE Band 12 / 10MHz / QPSK

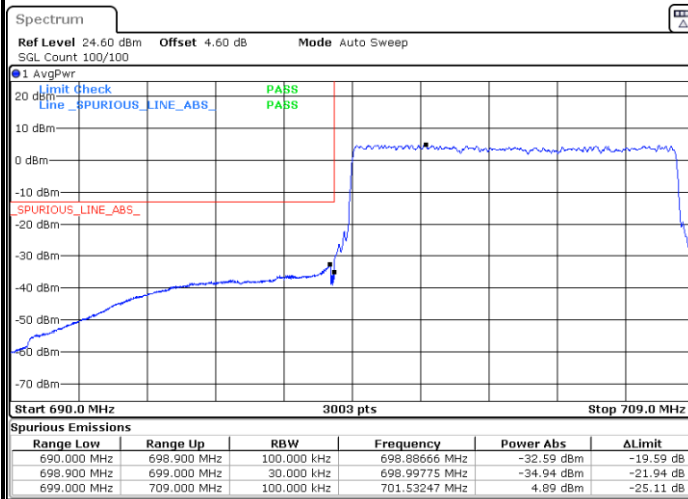
Lowest Band Edge / 1 RB



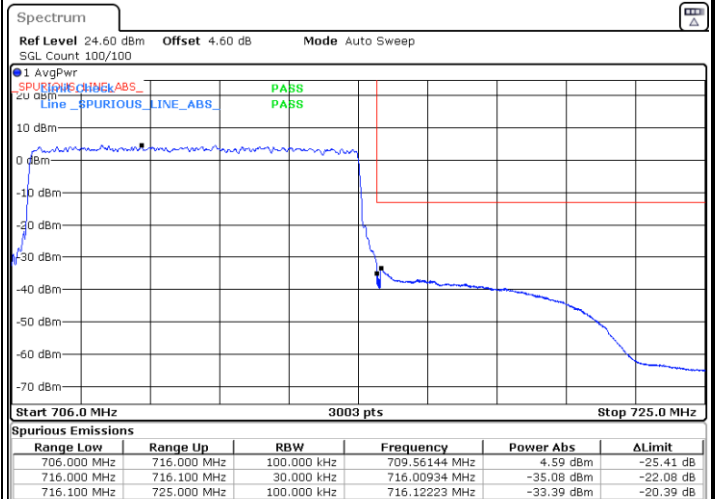
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



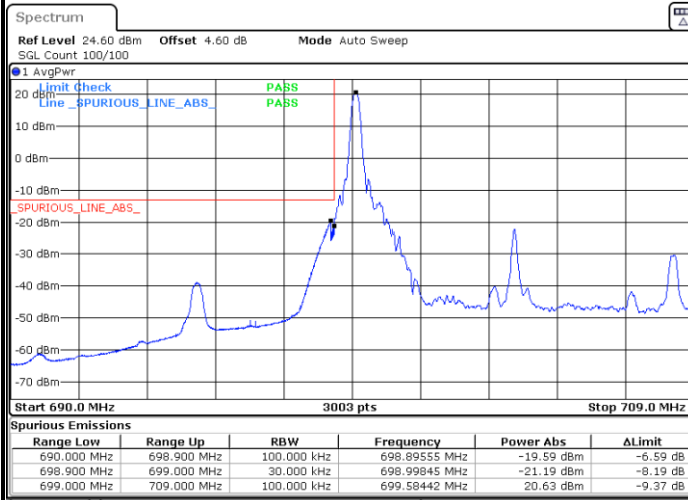
Highest Band Edge / Full RB



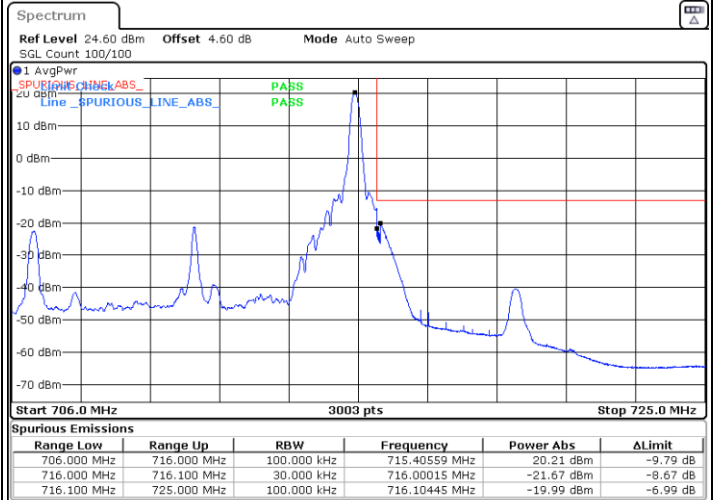


LTE Band 12 / 10MHz / 16QAM

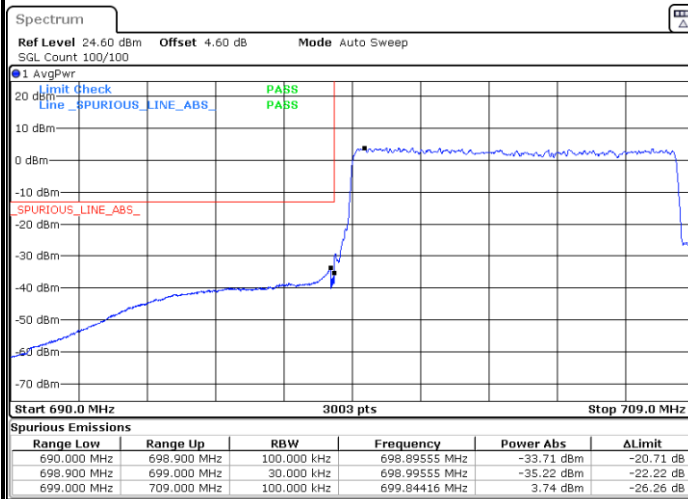
Lowest Band Edge / 1 RB



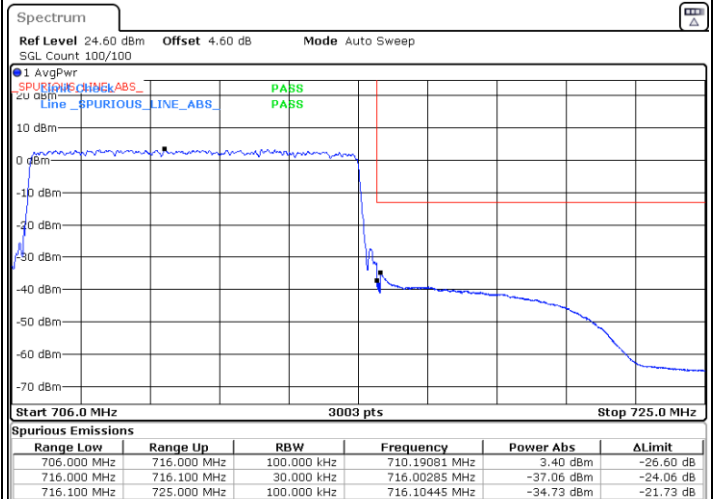
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



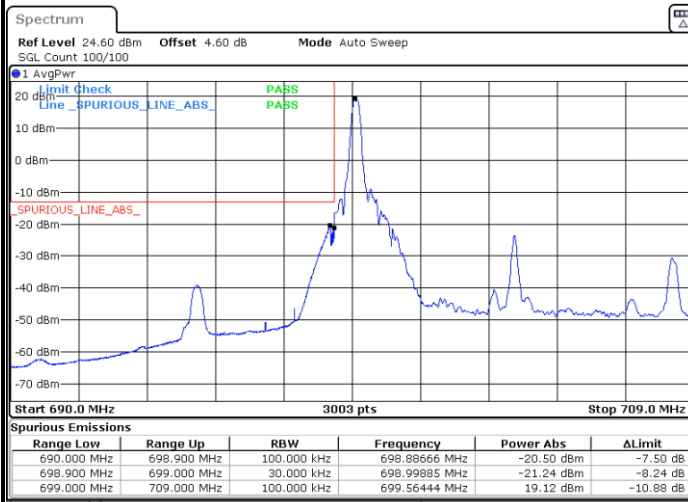
Highest Band Edge / Full RB



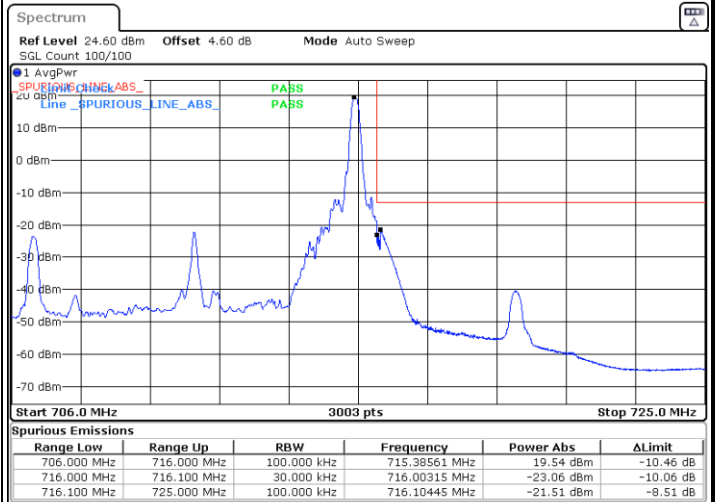


LTE Band 12 / 10MHz / 64QAM

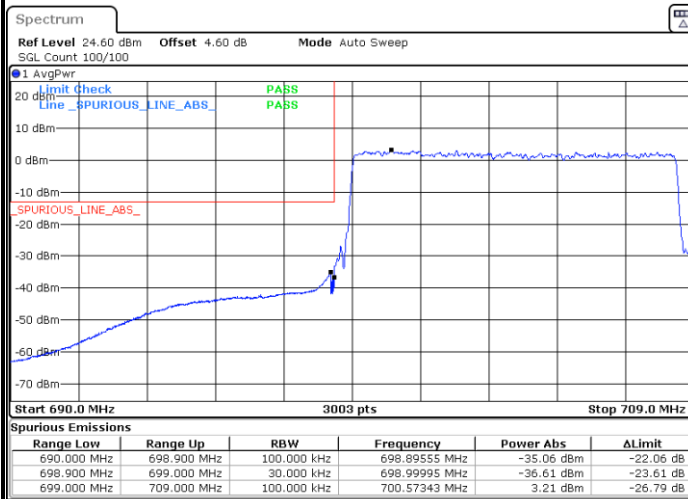
Lowest Band Edge / 1 RB



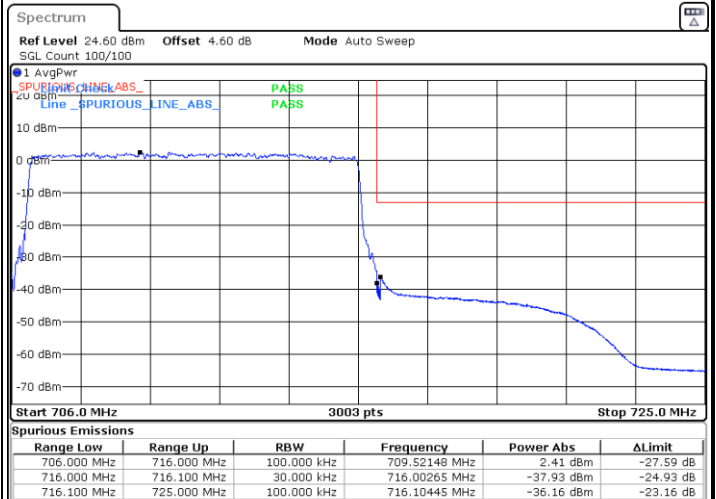
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

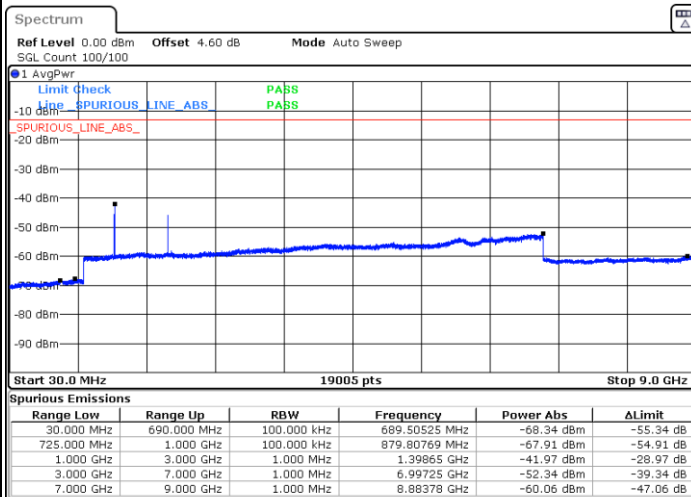




Conducted Spurious Emission

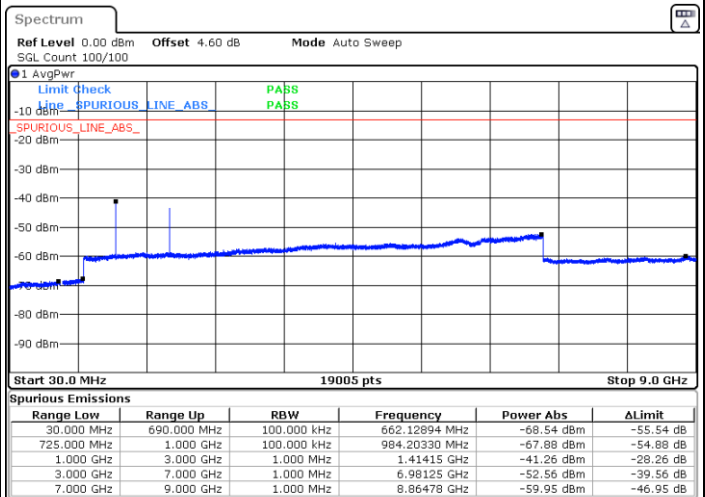
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



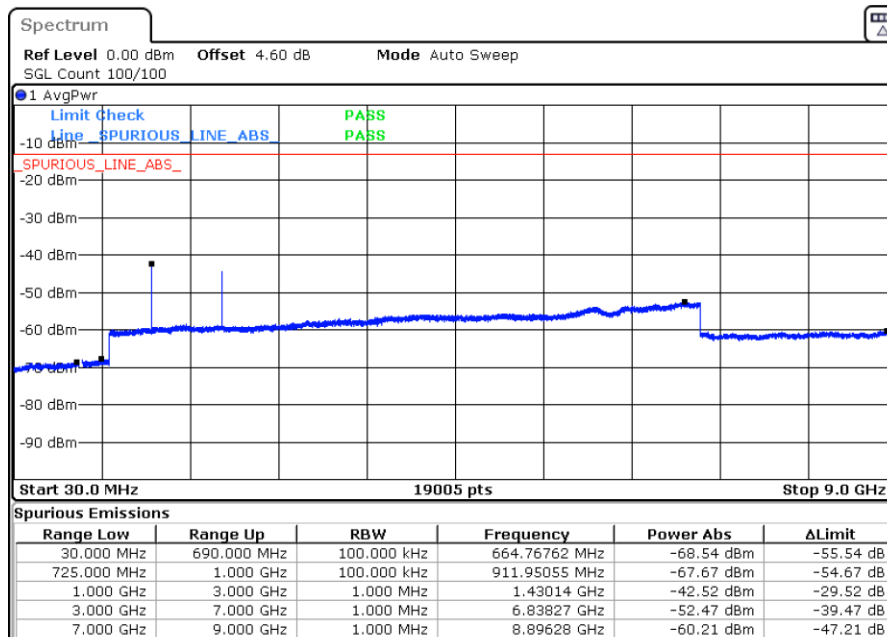
Date: 20 MAR 2025 23:22:53

Middle Channel / QPSK



Date: 20 MAR 2025 23:39:26

Highest Channel / QPSK

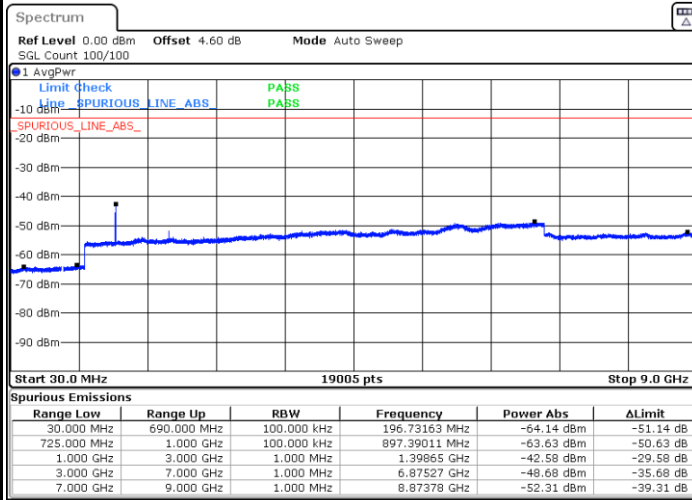


Date: 20 MAR 2025 23:40:45



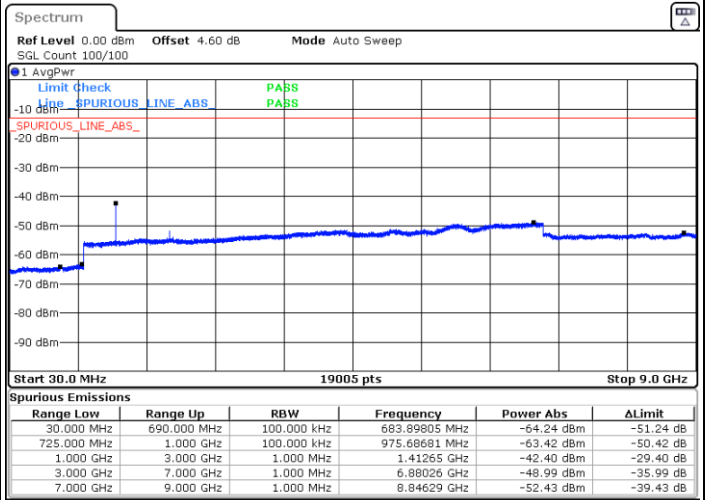
LTE Band 12 / 3MHz

Lowest Channel / QPSK



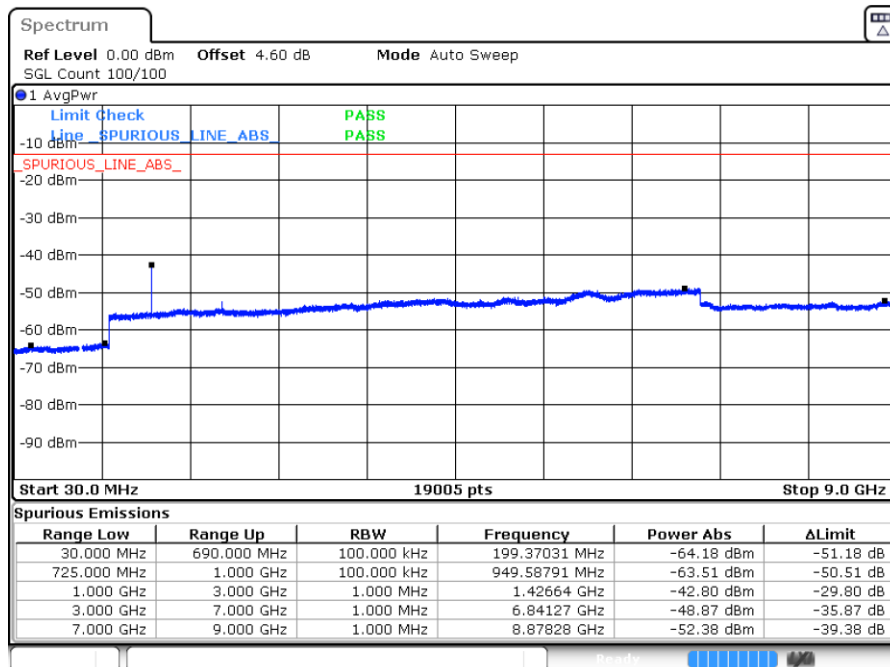
Date: 21 MAR 2025 00:03:49

Middle Channel / QPSK



Date: 21 MAR 2025 00:15:05

Highest Channel / QPSK

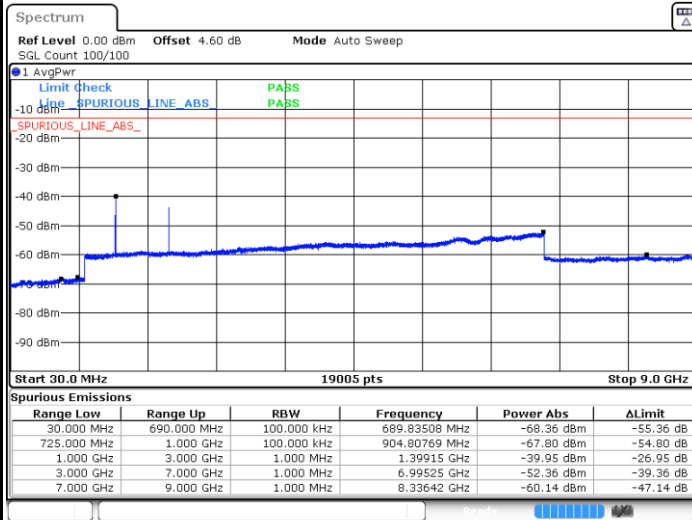


Date: 21 MAR 2025 00:16:24



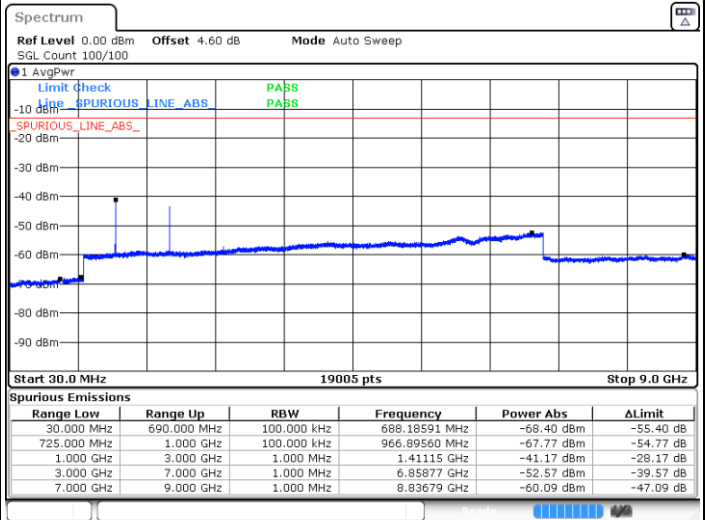
LTE Band 12 / 5MHz

Lowest Channel / QPSK



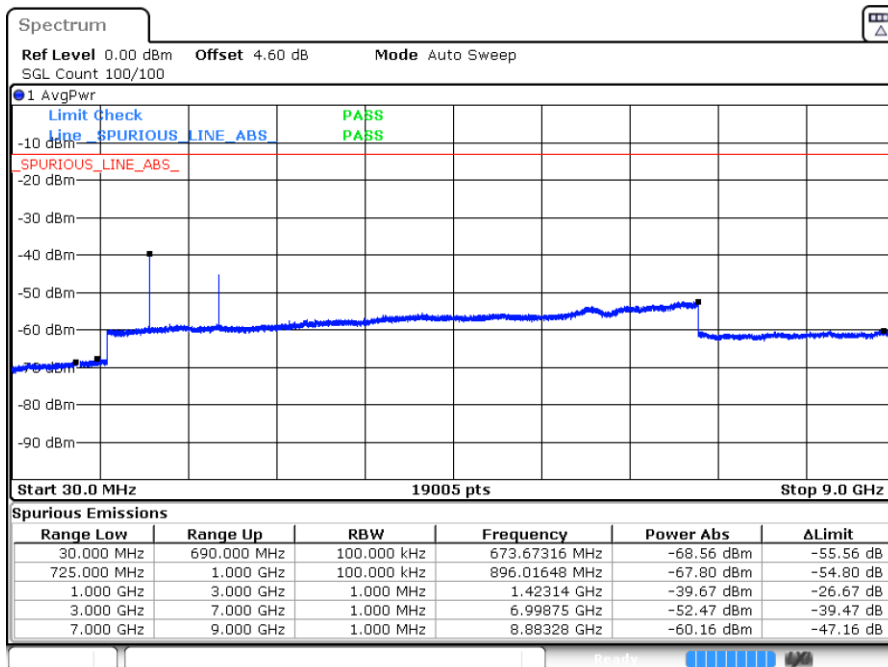
Date: 21 MAR 2025 00:37:12

Middle Channel / QPSK



Date: 21 MAR 2025 00:48:28

Highest Channel / QPSK

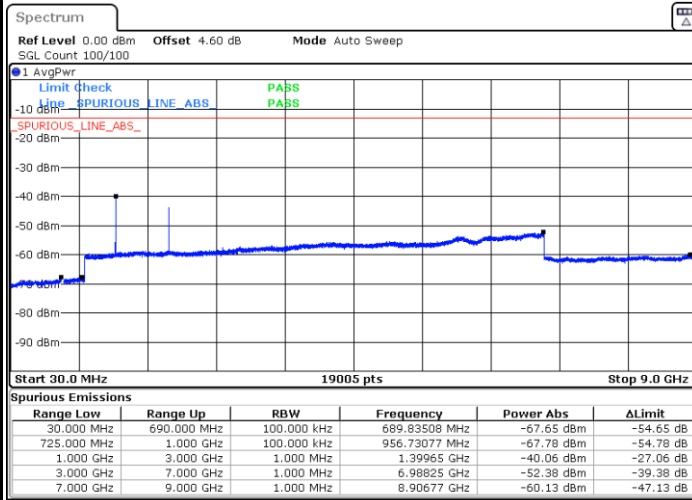


Date: 21 MAR 2025 00:49:47



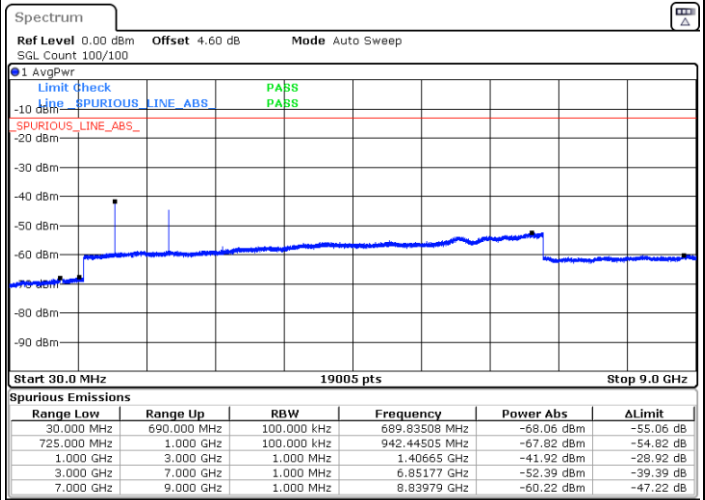
LTE Band 12 / 10MHz

Lowest Channel / QPSK



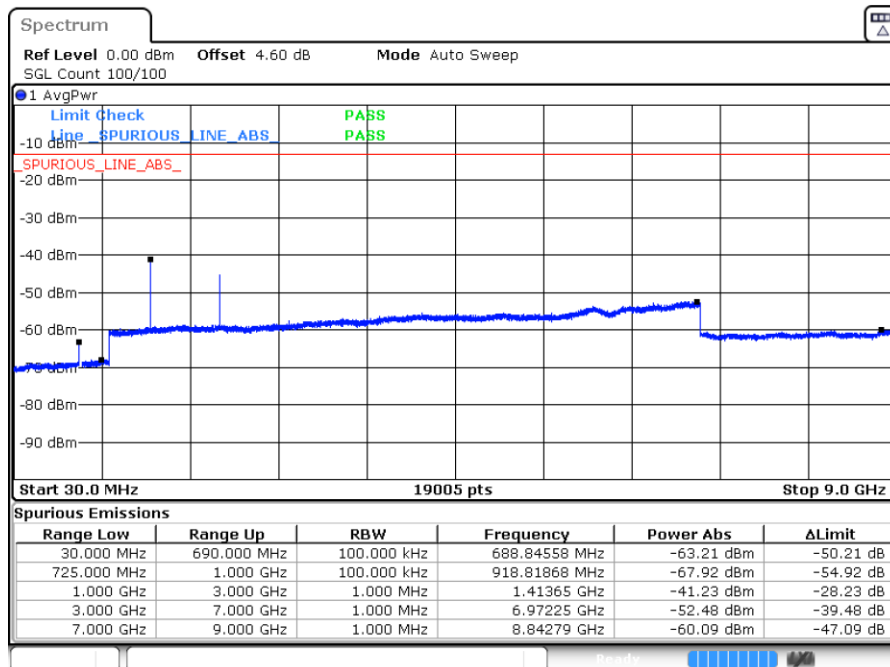
Date: 21.MAR.2025 01:01:04

Middle Channel / QPSK



Date: 21.MAR.2025 01:12:20

Highest Channel / QPSK



Date: 21.MAR.2025 01:13:40

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	0.0029	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0046	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =7.2 V. ; Battery End Point (BEP) =6.8 V. ; Maximum Voltage =8.26 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

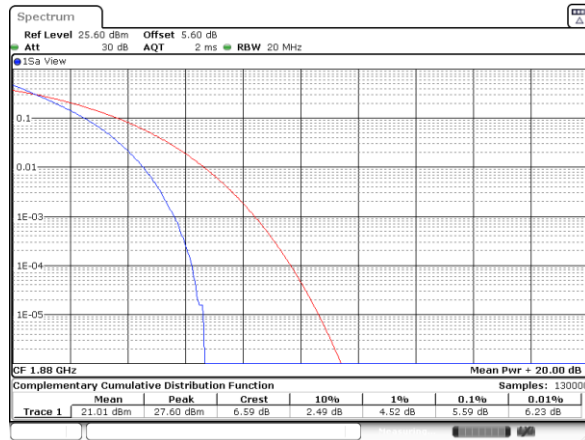
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.59	6.35	6.67	PASS

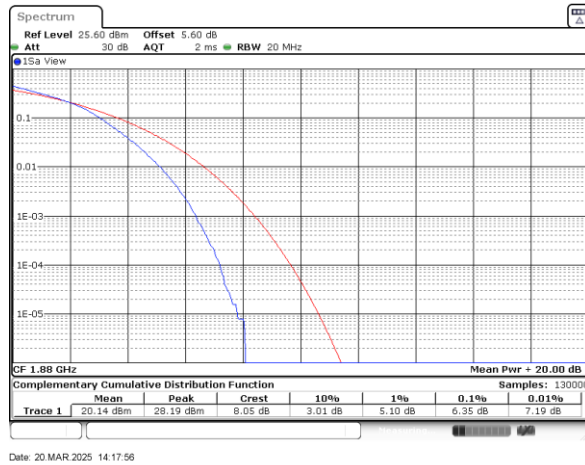


LTE Band 25 / 20MHz

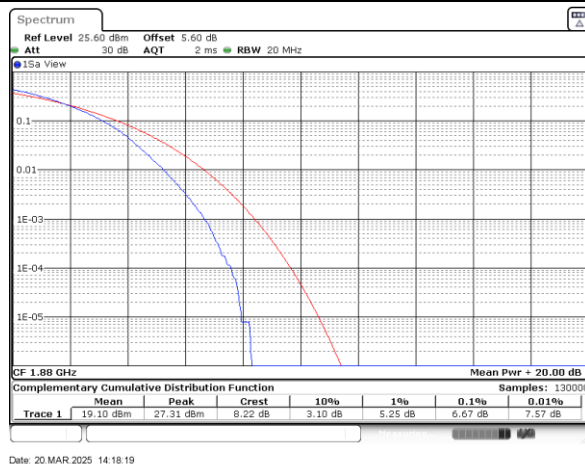
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

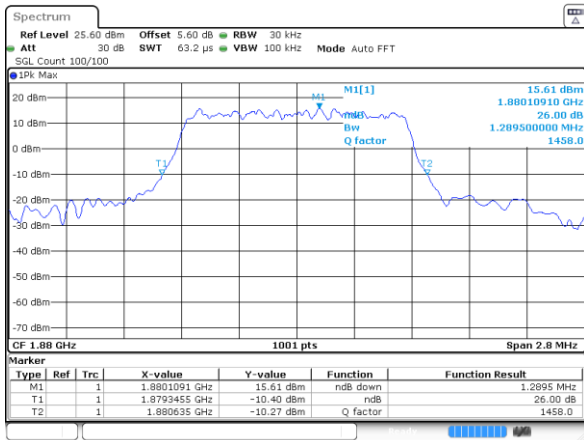


**26dB Bandwidth**

Mode	LTE Band 25 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.29	1.30
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.98	2.97
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.03	4.87
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.81	9.71
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.30	14.36
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.06	19.02

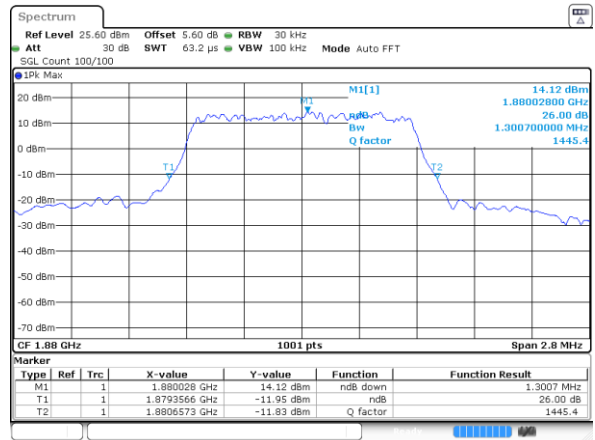
LTE Band 25

Middle Channel / 1.4MHz / QPSK



Date: 20 MAR 2025 14:47:30

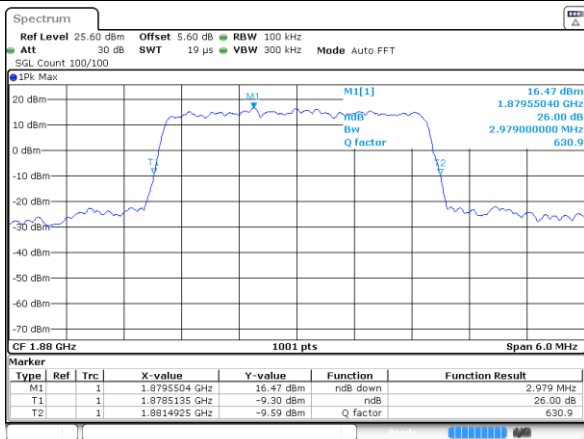
Middle Channel / 1.4MHz / 16QAM



Date: 20 MAR 2025 14:48:12

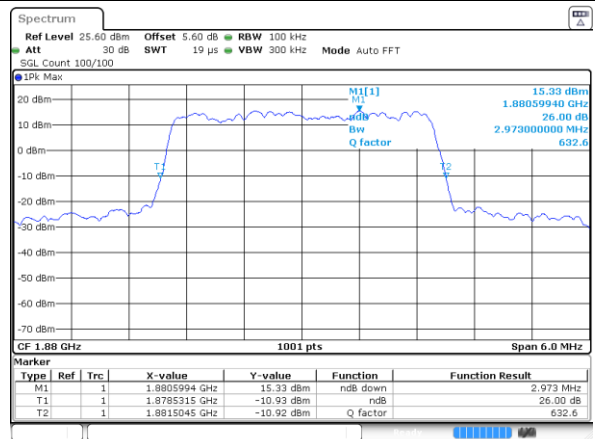
LTE Band 25

Middle Channel / 3MHz / QPSK



Date: 20 MAR 2025 14:50:32

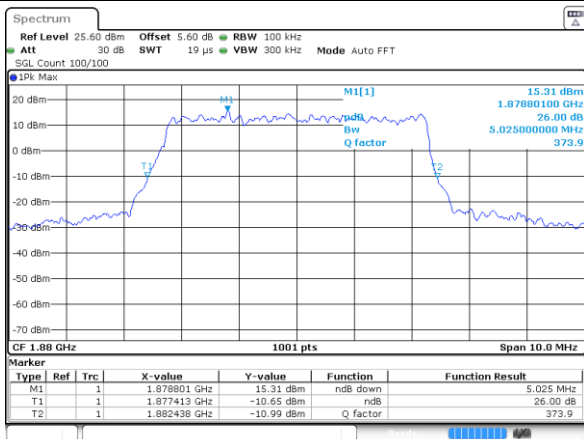
Middle Channel / 3MHz / 16QAM



Date: 20 MAR 2025 14:48:48

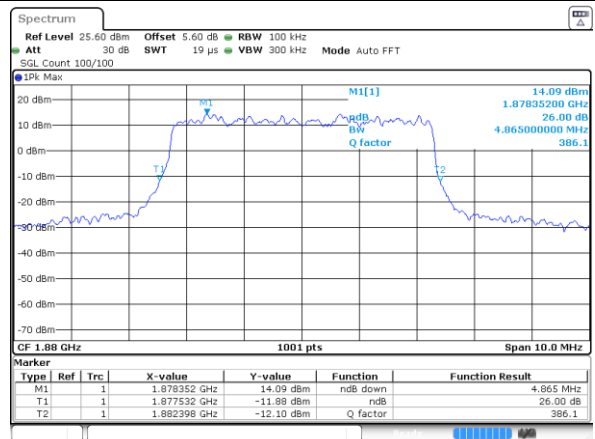
LTE Band 25

Middle Channel / 5MHz / QPSK



Date: 20 MAR 2025 14:51:18

Middle Channel / 5MHz / 16QAM

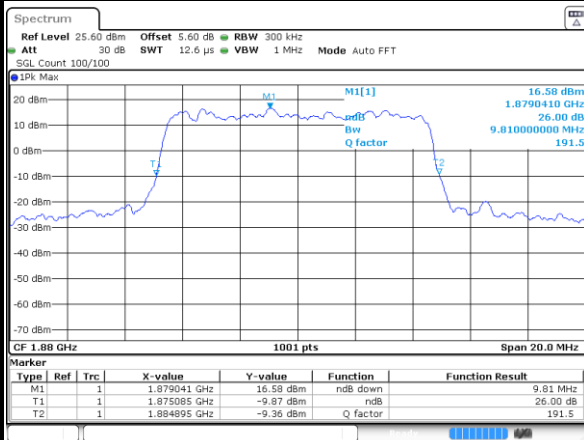


Date: 20 MAR 2025 14:52:02



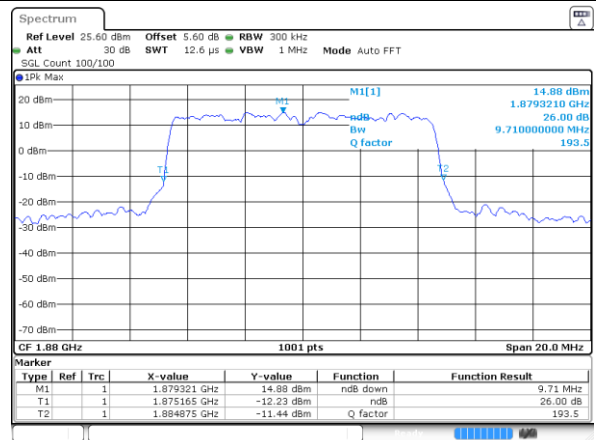
LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 20 MAR 2025 14:53:54

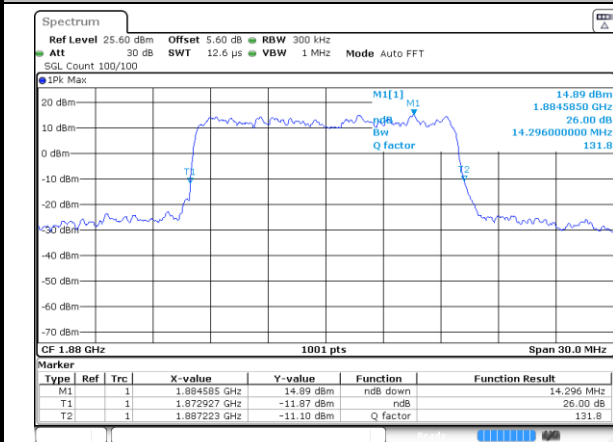
Middle Channel / 10MHz / 16QAM



Date: 20 MAR 2025 14:52:53

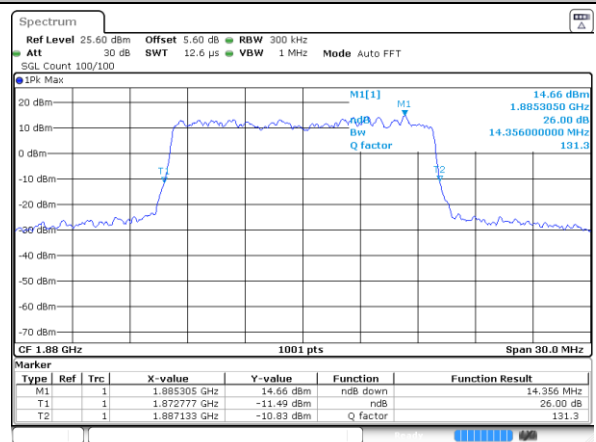
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 20 MAR 2025 14:54:52

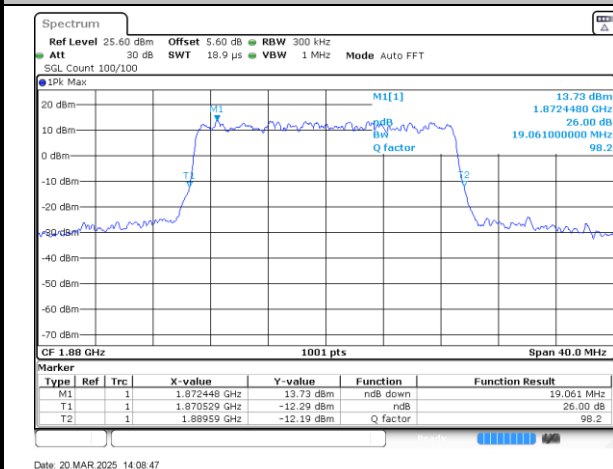
Middle Channel / 15MHz / 16QAM



Date: 20 MAR 2025 14:55:34

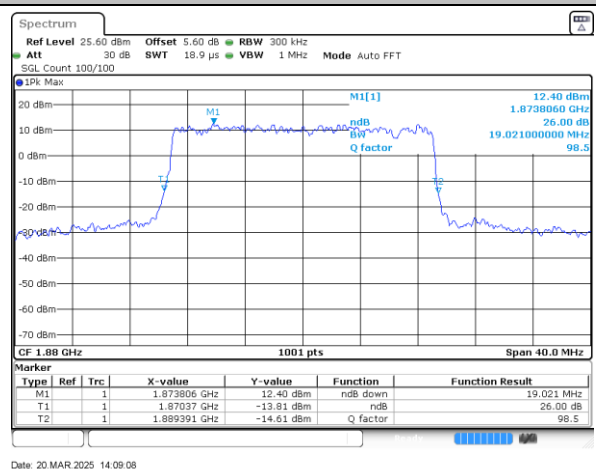
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 20 MAR 2025 14:08:47

Middle Channel / 20MHz / 16QAM



Date: 20 MAR 2025 14:09:08

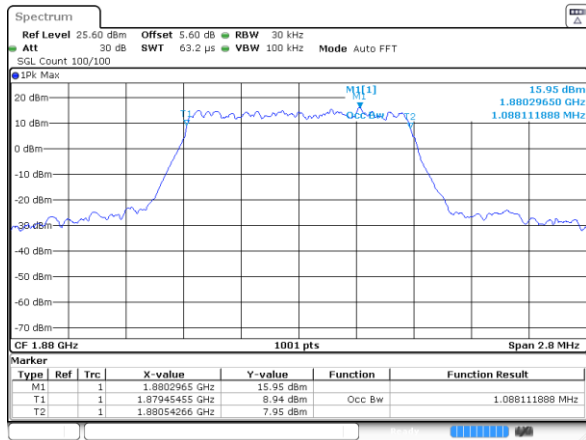
**Occupied Bandwidth**

Mode	LTE Band 25 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.09
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.71	2.70
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.51	4.48
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	9.01
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.43	13.49
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.94	17.86

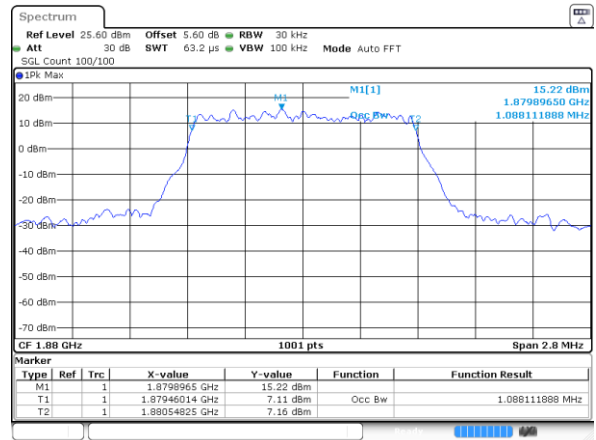


LTE Band 25

Middle Channel / 1.4MHz / QPSK

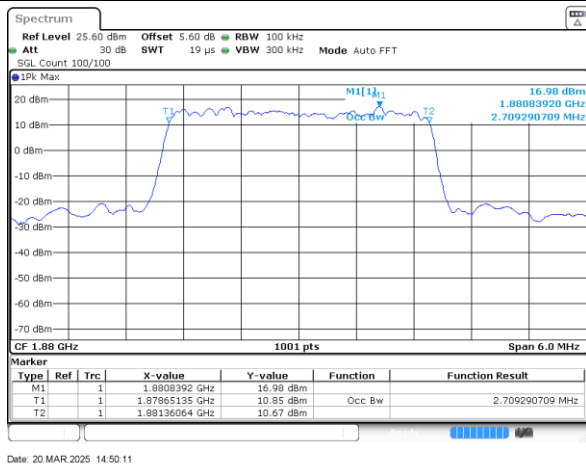


Middle Channel / 1.4MHz / 16QAM

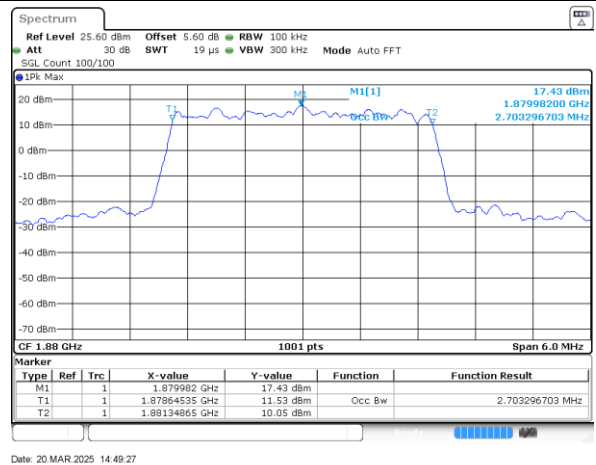


LTE Band 25

Middle Channel / 3MHz / QPSK

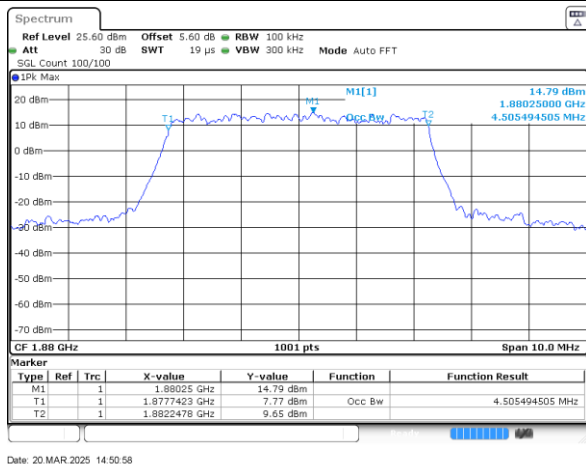


Middle Channel / 3MHz / 16QAM



LTE Band 25

Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM

