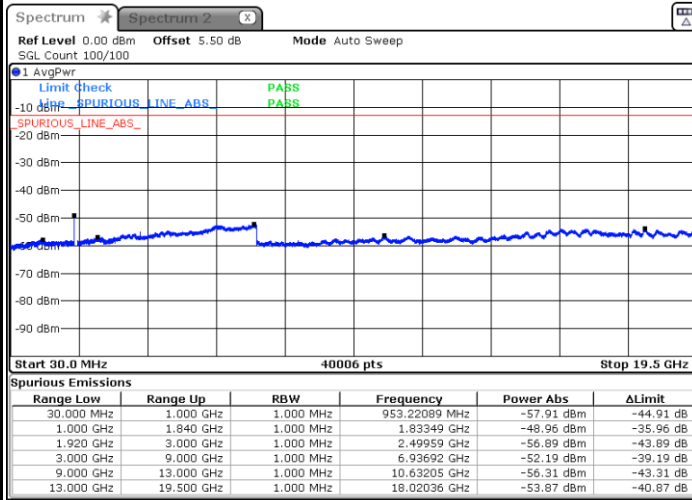




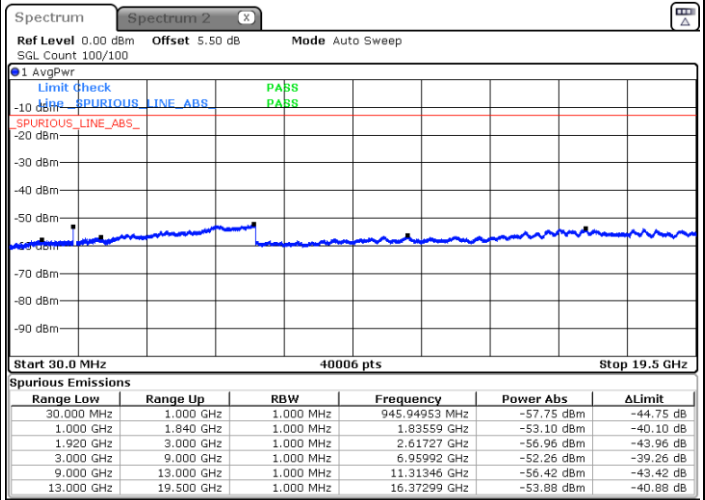
LTE Band 2 / 20MHz

Lowest Channel / QPSK



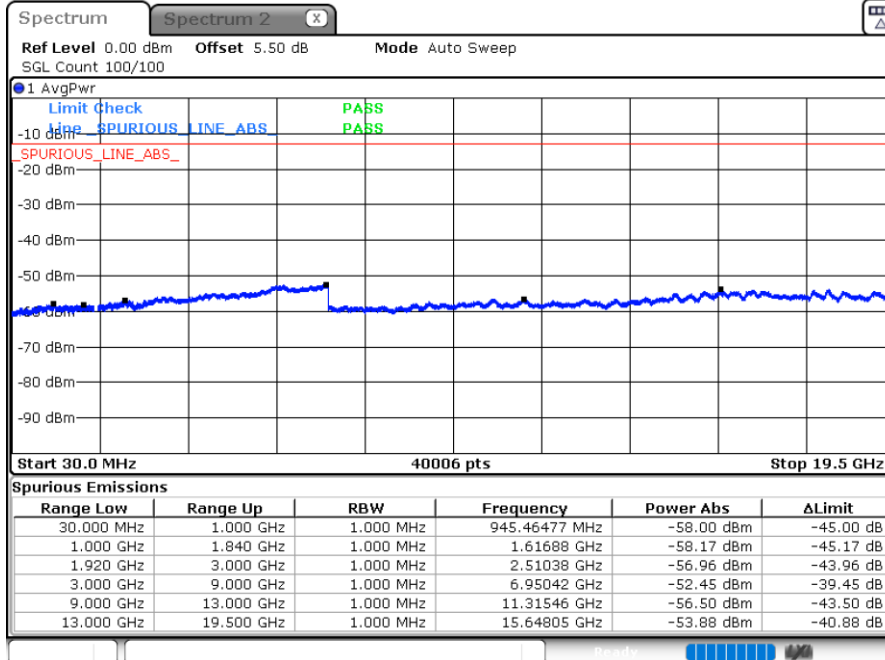
Date: 12.JUN.2025 20:02:38

Middle Channel / QPSK



Date: 12.JUN.2025 20:03:36

Highest Channel / QPSK



Date: 12.JUN.2025 19:59:43

**Frequency Stability**

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0030	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0015	
20	Normal Voltage	0.0025	

Note:

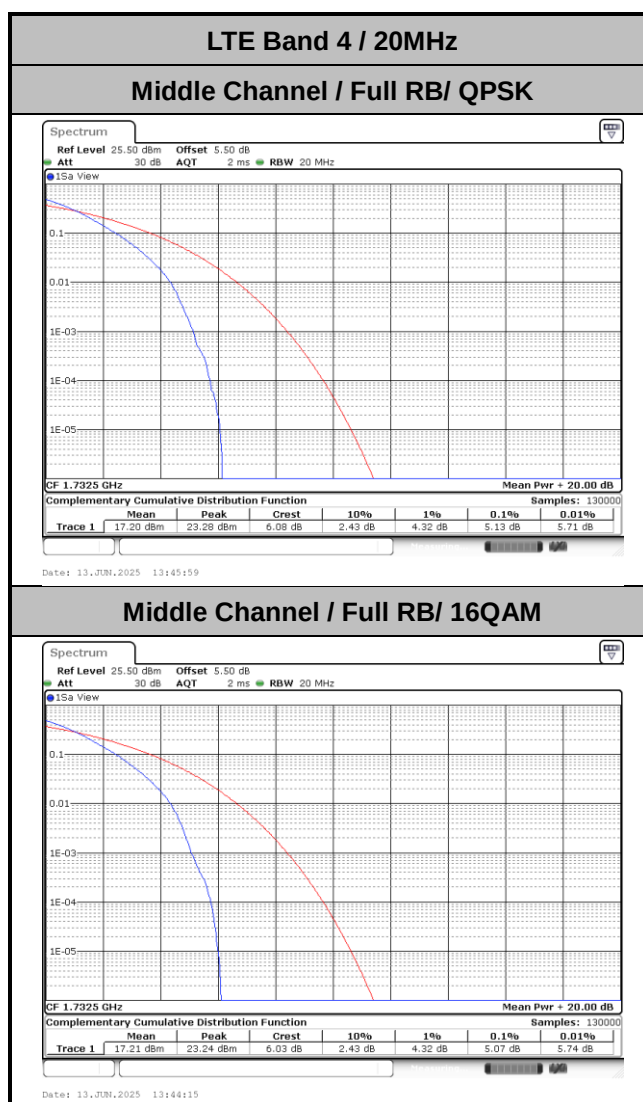
1. Normal Voltage = 3.8V
2. The low voltage and high voltage condition test result are leveraged from module RF report.
3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.13	5.07	PASS



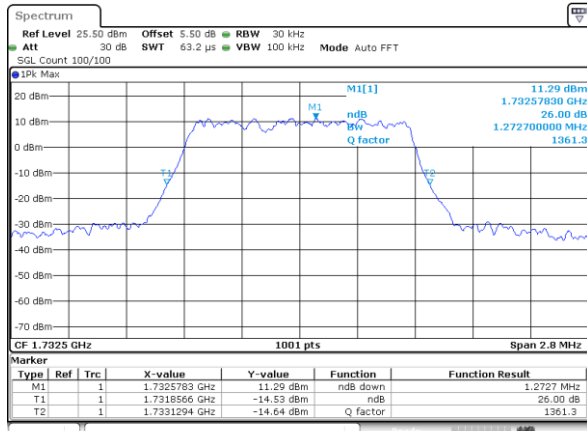
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.27	1.27
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.03	3.05
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.87	4.93
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	5.61
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.24	6.08
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.62	5.95



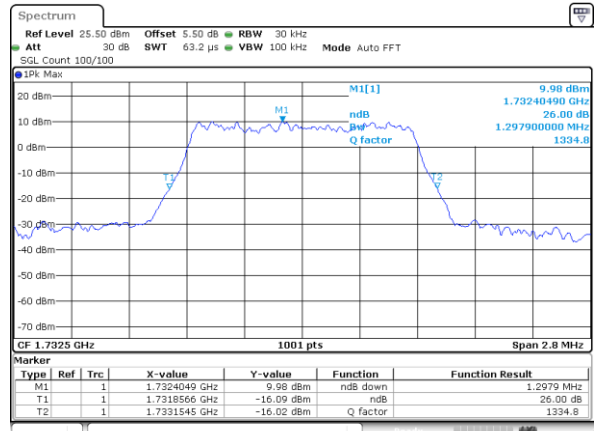
LTE Band 4

Middle Channel / 1.4MHz / QPSK



Date: 13 JUN 2025 10:34:40

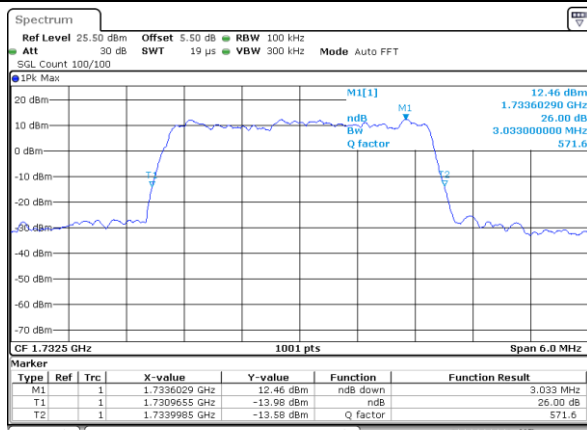
Middle Channel / 1.4MHz / 16QAM



Date: 13 JUN 2025 10:35:23

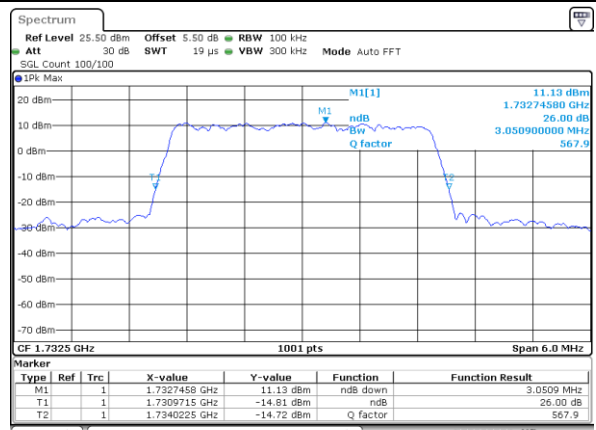
LTE Band 4

Middle Channel / 3MHz / QPSK



Date: 13 JUN 2025 10:49:48

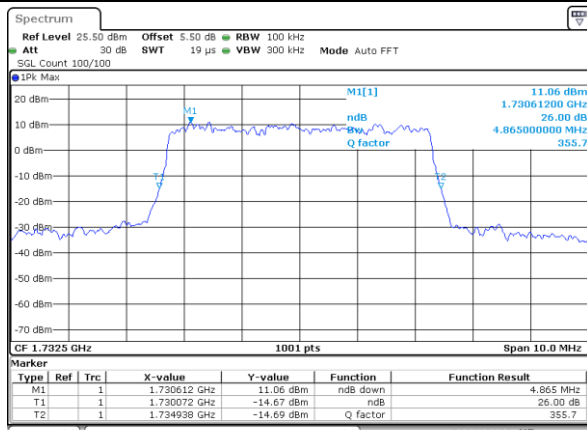
Middle Channel / 3MHz / 16QAM



Date: 13 JUN 2025 10:50:31

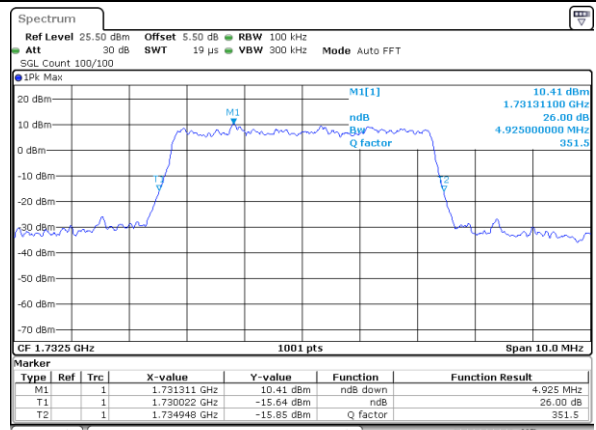
LTE Band 4

Middle Channel / 5MHz / QPSK



Date: 13 JUN 2025 11:06:15

Middle Channel / 5MHz / 16QAM

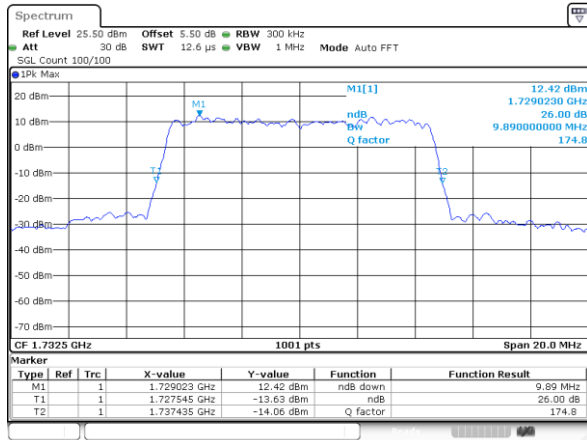


Date: 13 JUN 2025 11:07:56



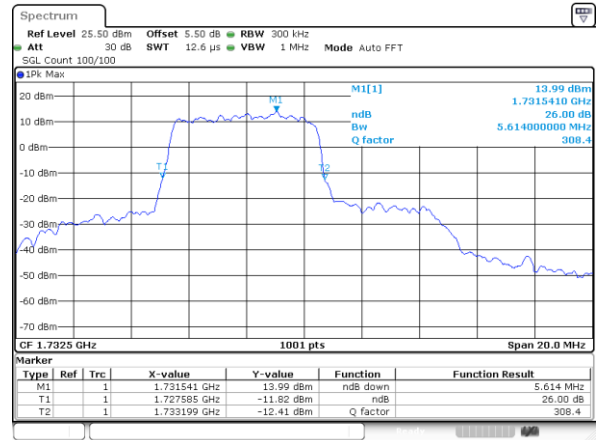
LTE Band 4

Middle Channel / 10MHz / QPSK



Date: 13_JUN,2025 11:21:36

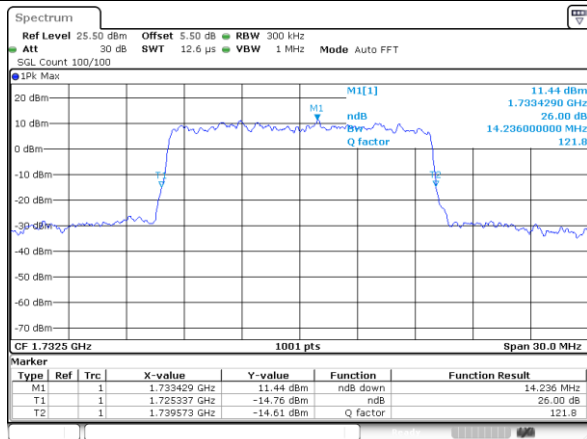
Middle Channel / 10MHz / 16QAM



Date: 13_JUN,2025 11:22:27

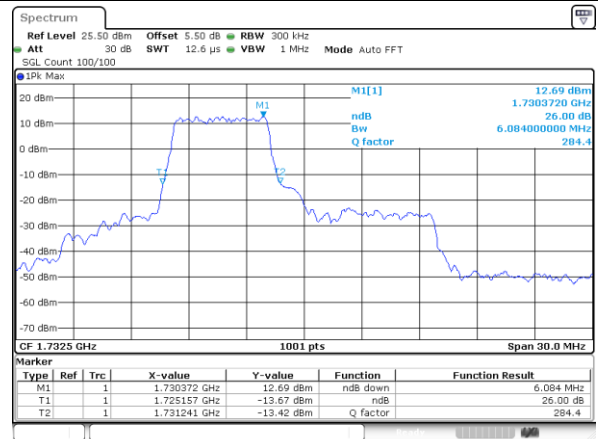
LTE Band 4

Middle Channel / 15MHz / QPSK



Date: 13_JUN,2025 13:15:09

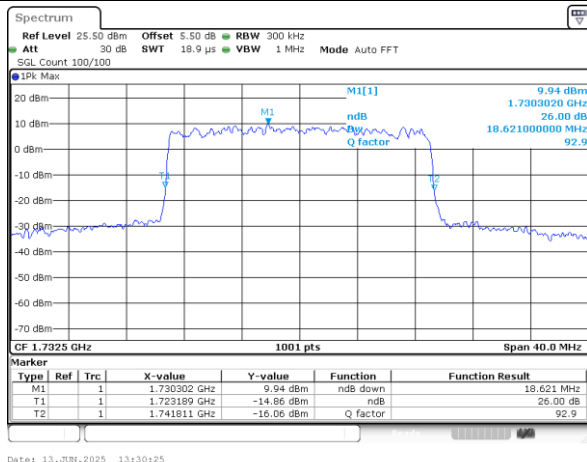
Middle Channel / 15MHz / 16QAM



Date: 13_JUN,2025 13:16:22

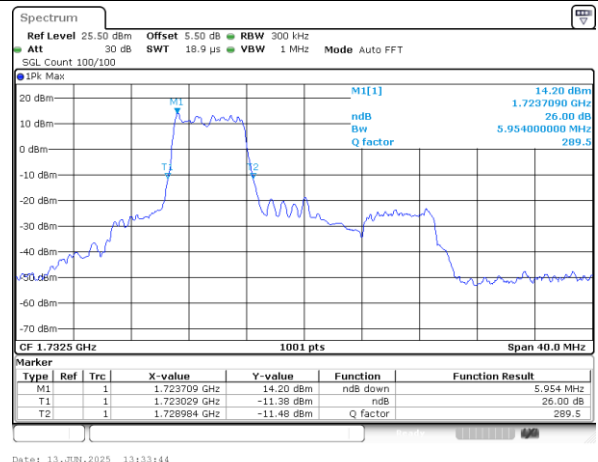
LTE Band 4

Middle Channel / 20MHz / QPSK



Date: 13_JUN,2025 13:30:25

Middle Channel / 20MHz / 16QAM



Date: 13_JUN,2025 13:33:44

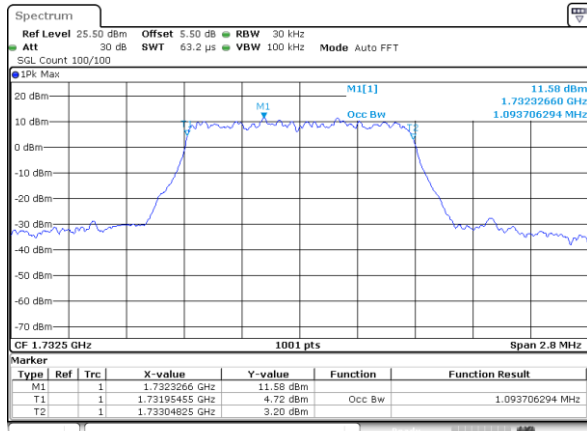
**Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.09
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.72	2.69
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	4.98
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.43	5.06
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.74	5.03



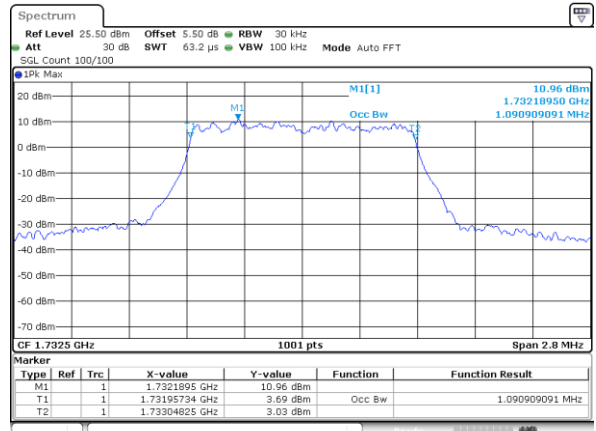
LTE Band 4

Middle Channel / 1.4MHz / QPSK



Date: 13 JUN 2025 10:34:25

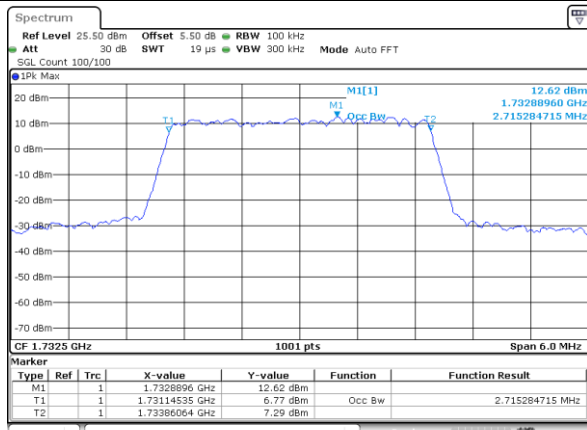
Middle Channel / 1.4MHz / 16QAM



Date: 13 JUN 2025 10:35:04

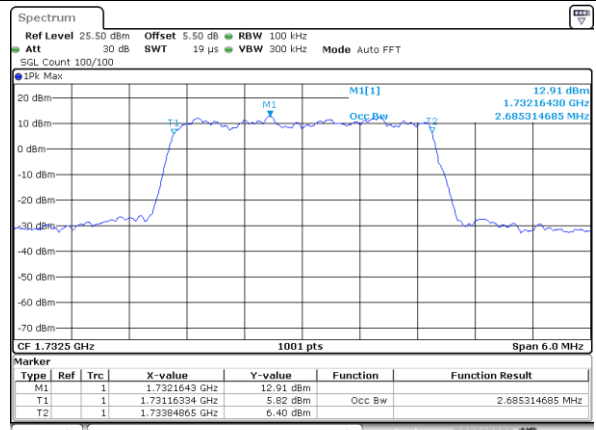
LTE Band 4

Middle Channel / 3MHz / QPSK



Date: 13 JUN 2025 10:49:31

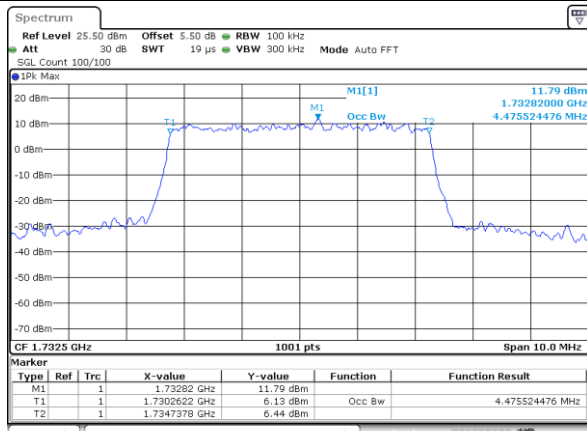
Middle Channel / 3MHz / 16QAM



Date: 13 JUN 2025 10:50:19

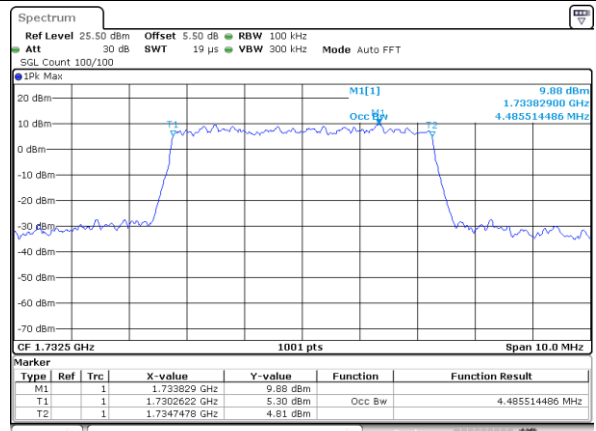
LTE Band 4

Middle Channel / 5MHz / QPSK



Date: 13 JUN 2025 11:05:56

Middle Channel / 5MHz / 16QAM

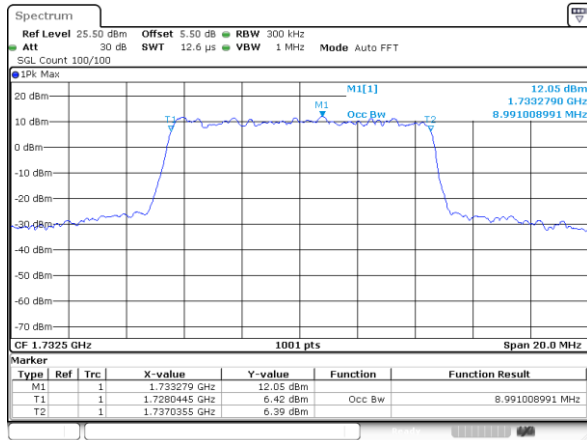


Date: 13 JUN 2025 11:07:30

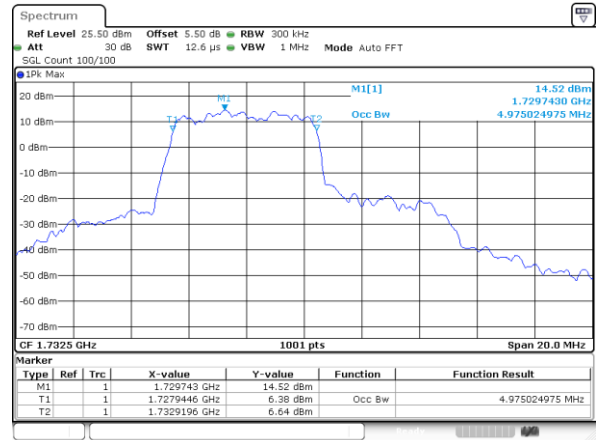


LTE Band 4

Middle Channel / 10MHz / QPSK

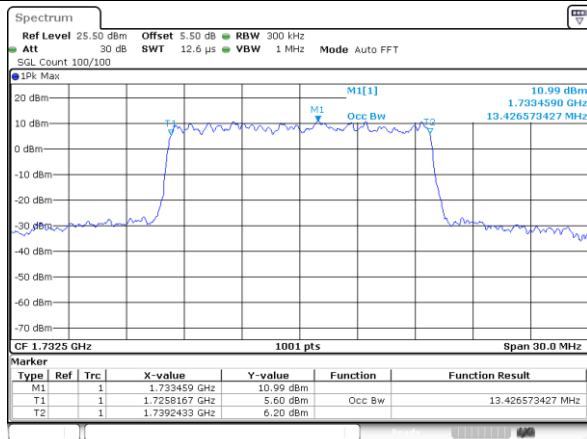


Middle Channel / 10MHz / 16QAM

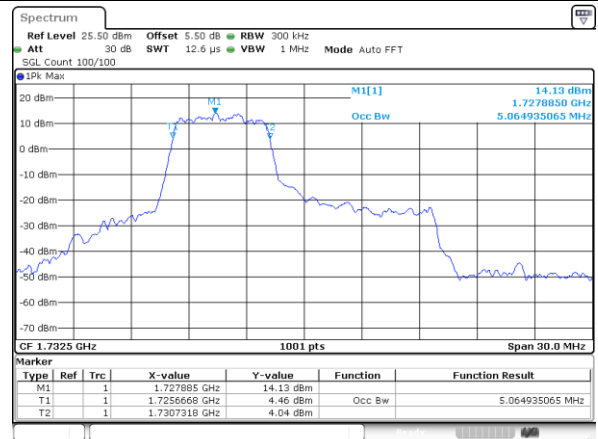


LTE Band 4

Middle Channel / 15MHz / QPSK

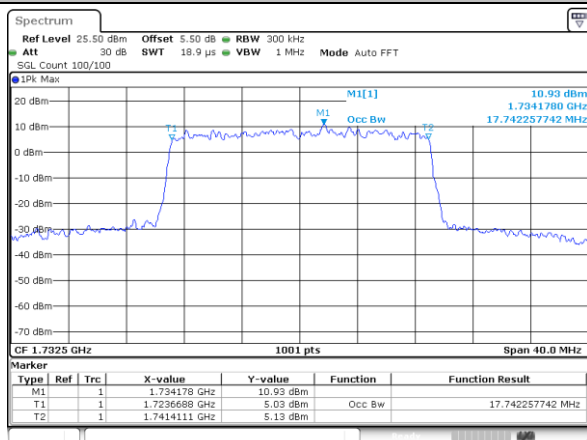


Middle Channel / 15MHz / 16QAM

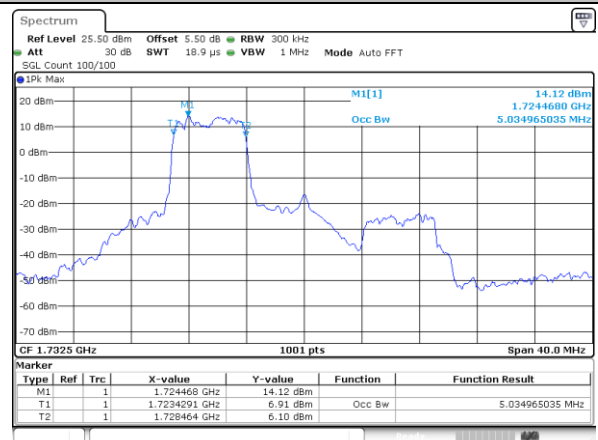


LTE Band 4

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

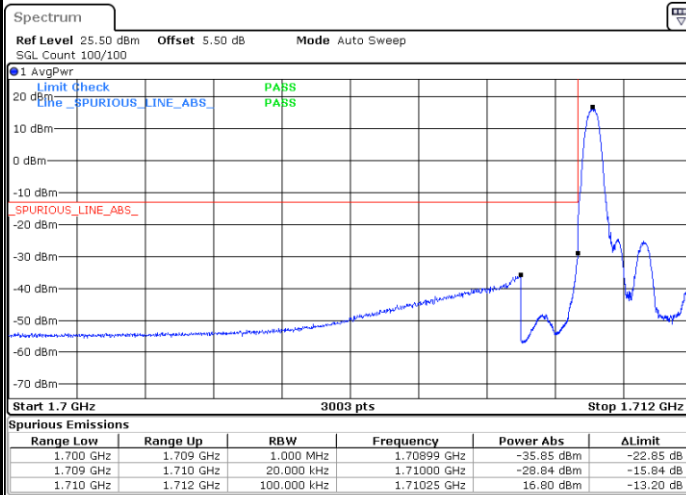




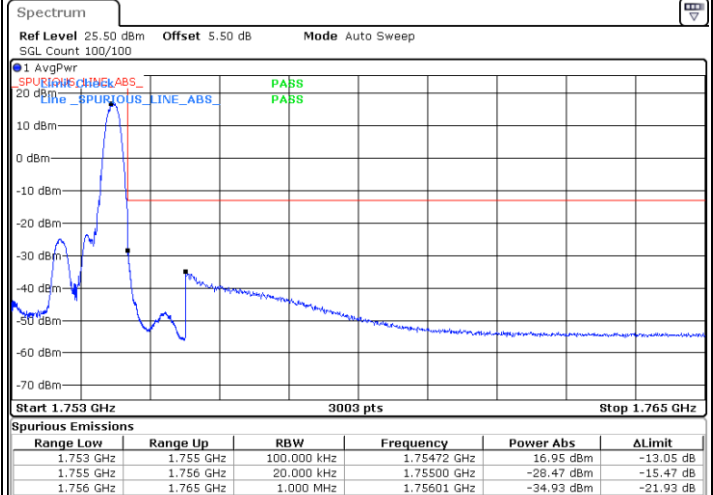
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

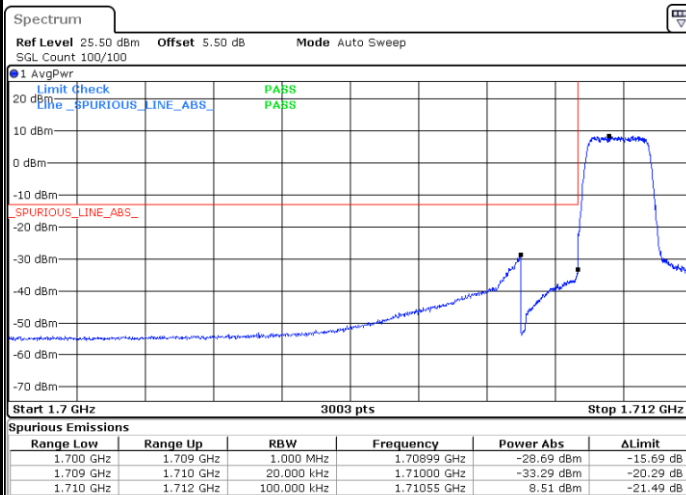
Lowest Band Edge / 1RB



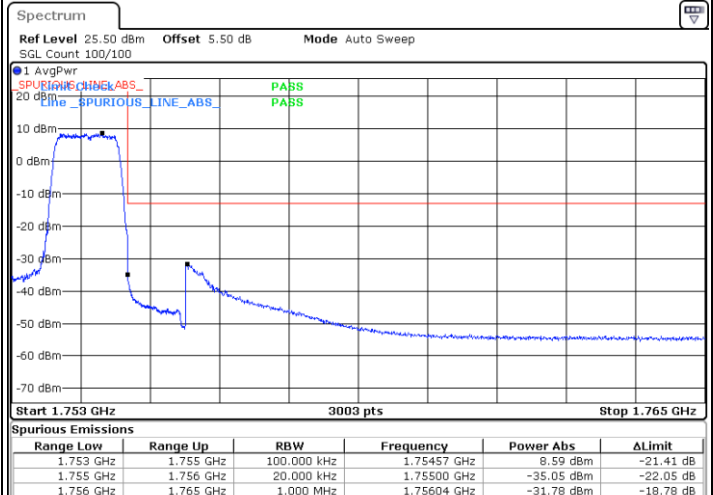
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



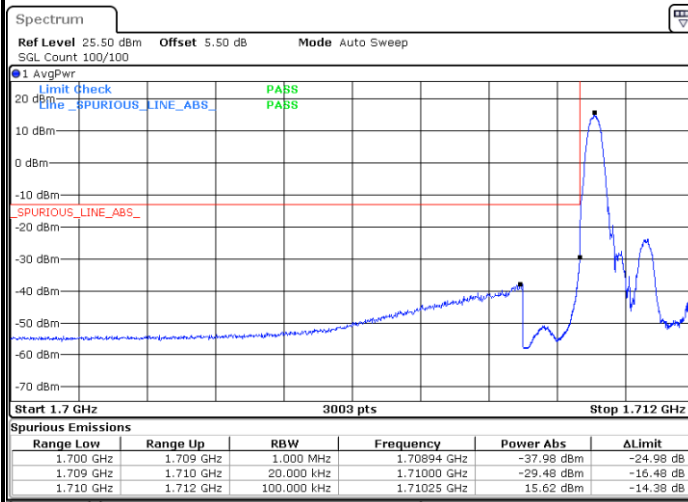
Highest Band Edge / Full RB



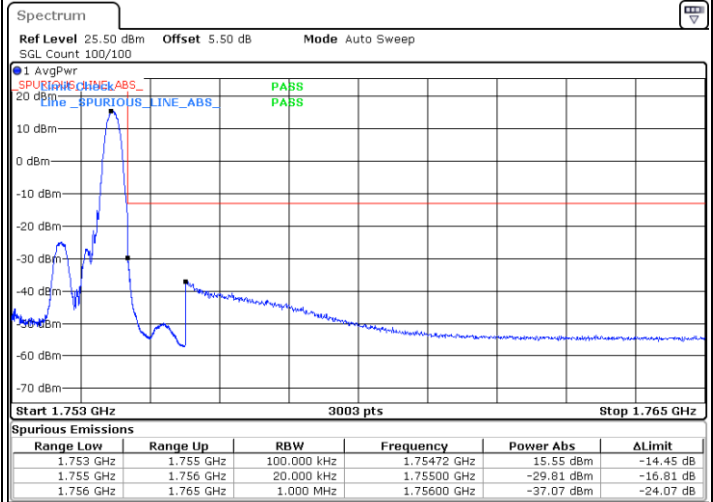


LTE Band 4 / 1.4MHz / 16QAM

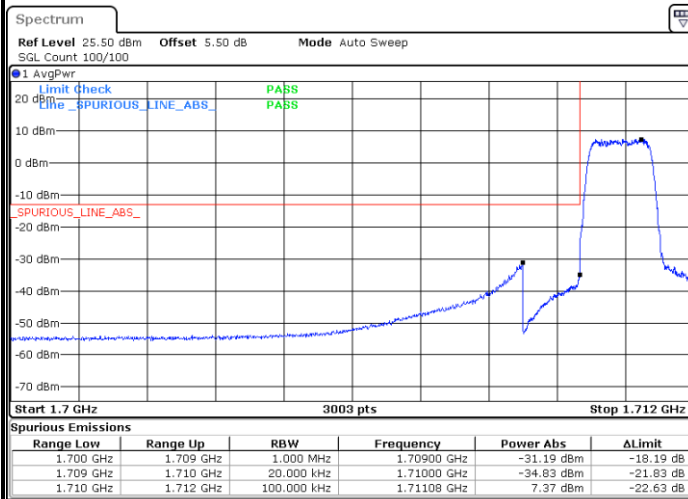
Lowest Band Edge / 1 RB



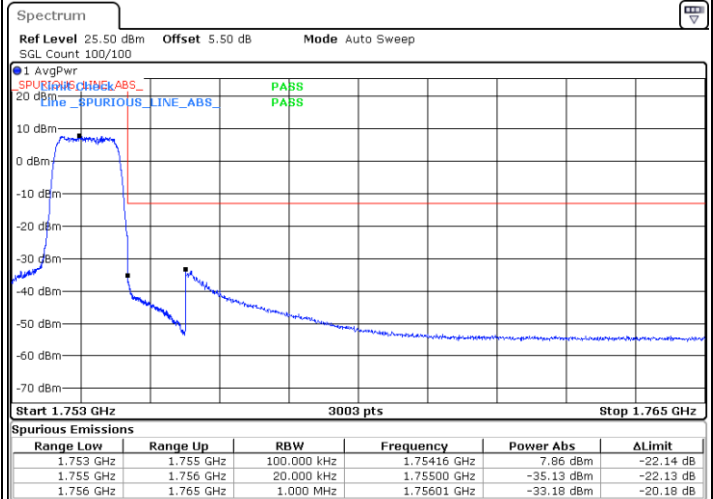
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



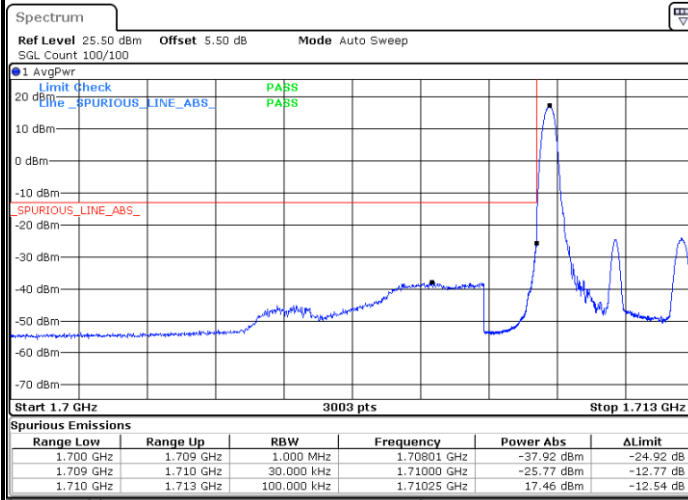
Highest Band Edge / Full RB



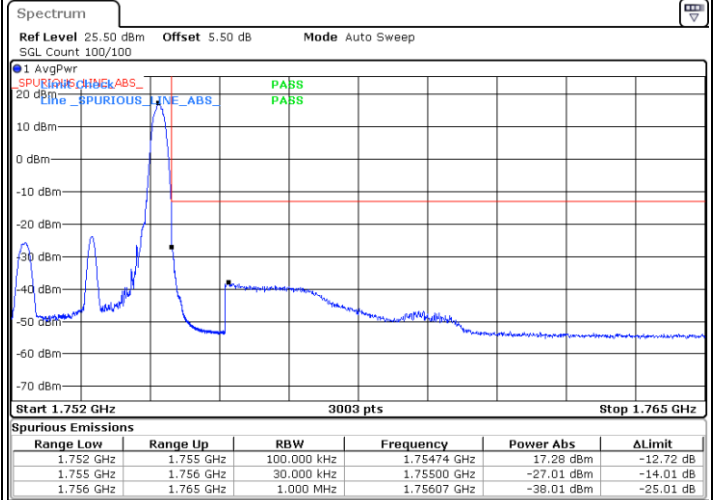


LTE Band 4 / 3MHz / QPSK

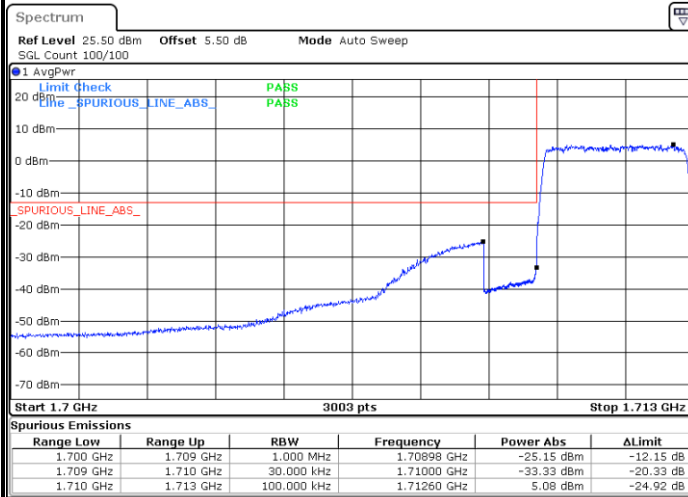
Lowest Band Edge / 1RB



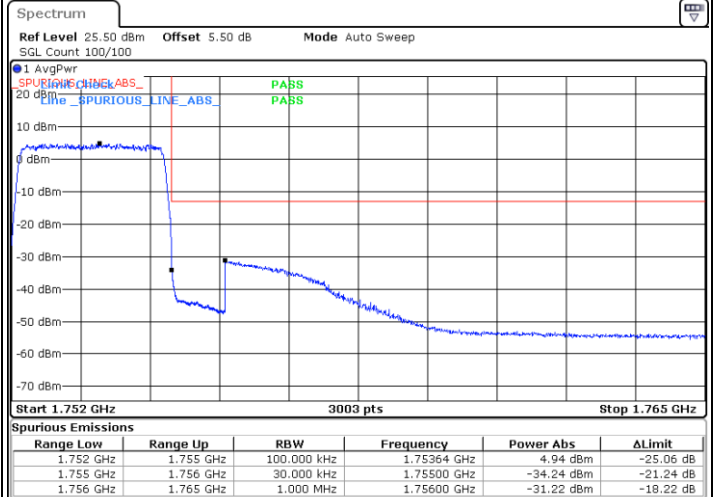
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



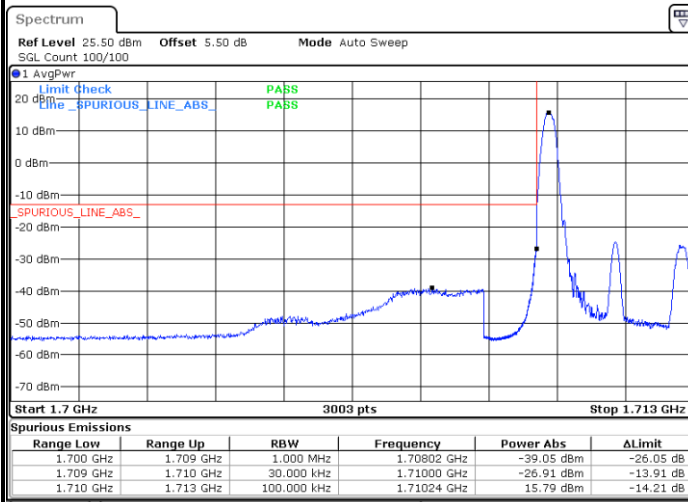
Highest Band Edge / Full RB



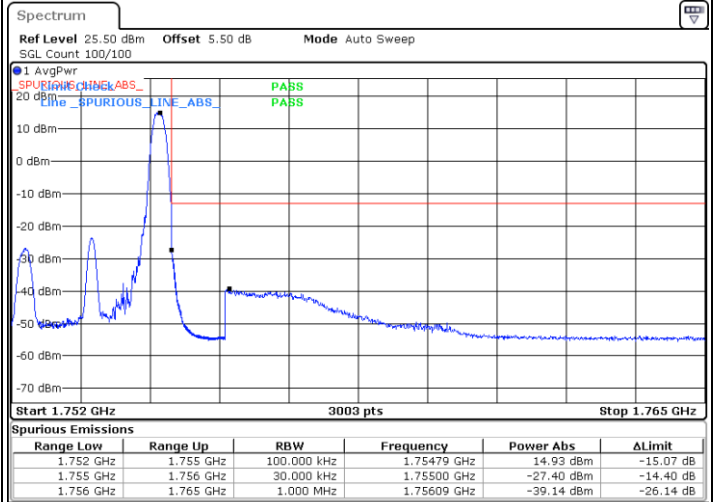


LTE Band 4 / 3MHz / 16QAM

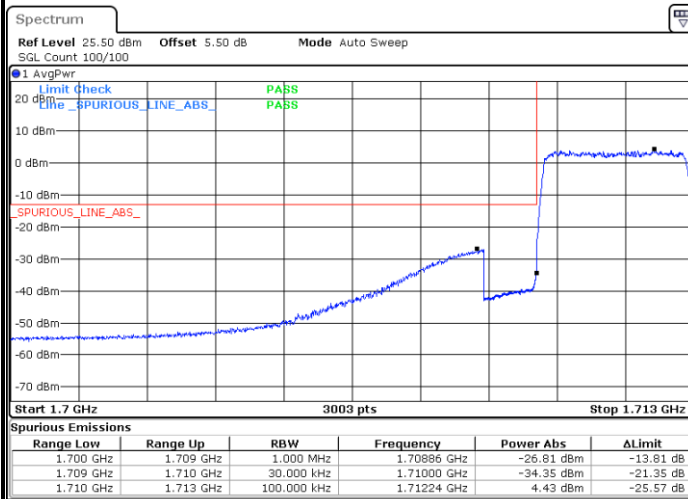
Lowest Band Edge / 1 RB



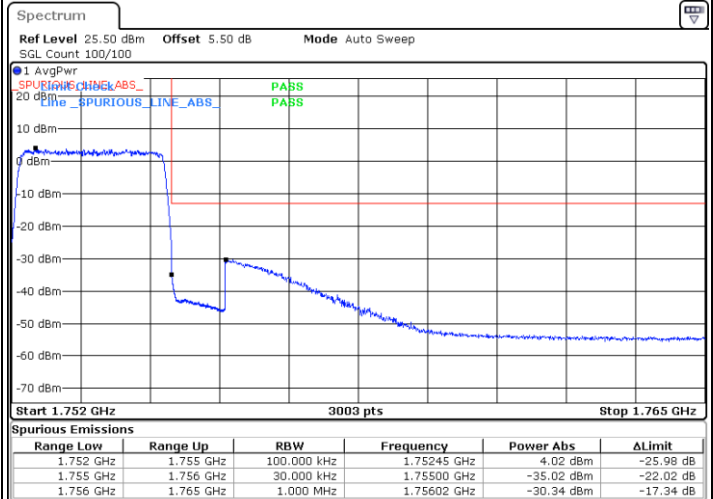
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



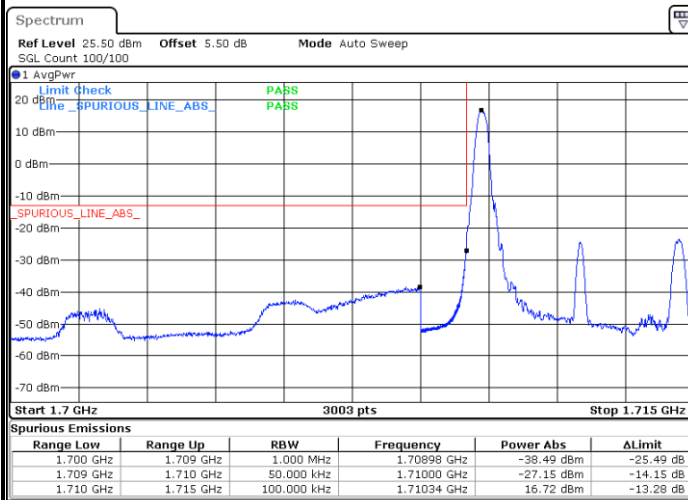
Highest Band Edge / Full RB



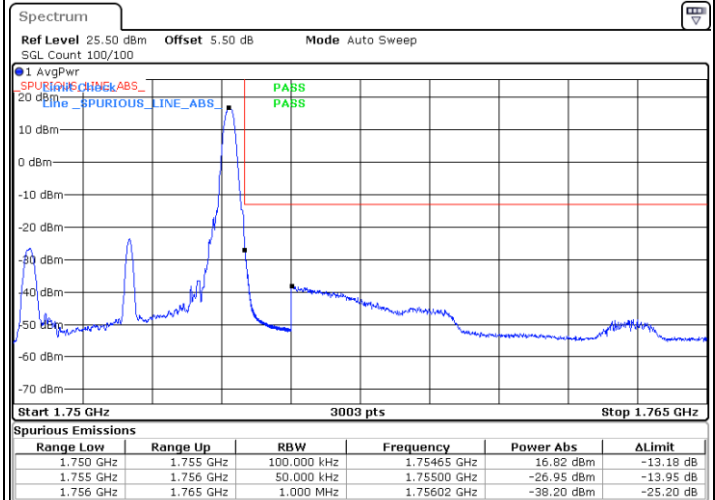


LTE Band 4 / 5MHz / QPSK

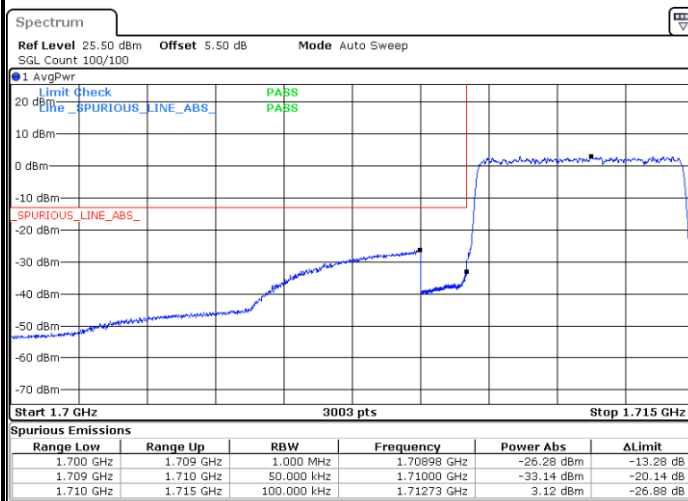
Lowest Band Edge / 1 RB



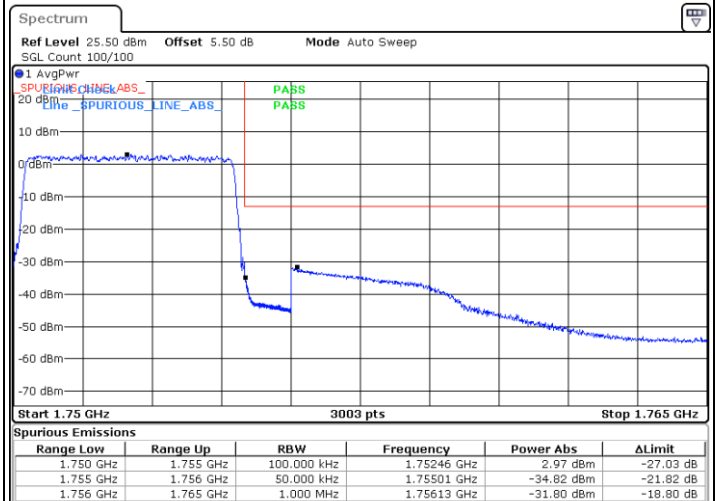
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



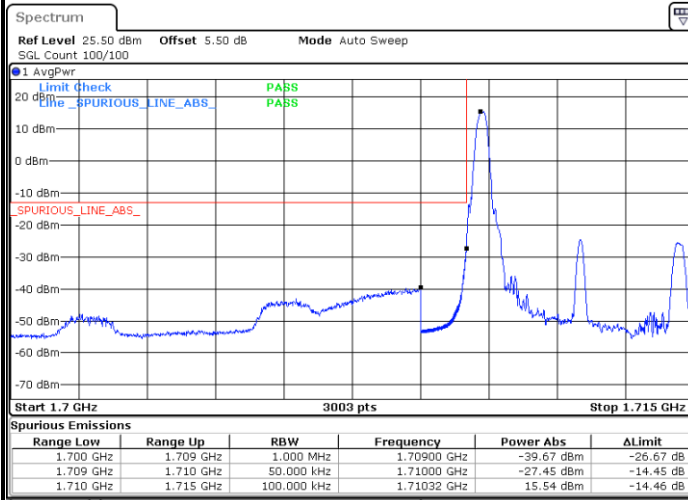
Highest Band Edge / Full RB



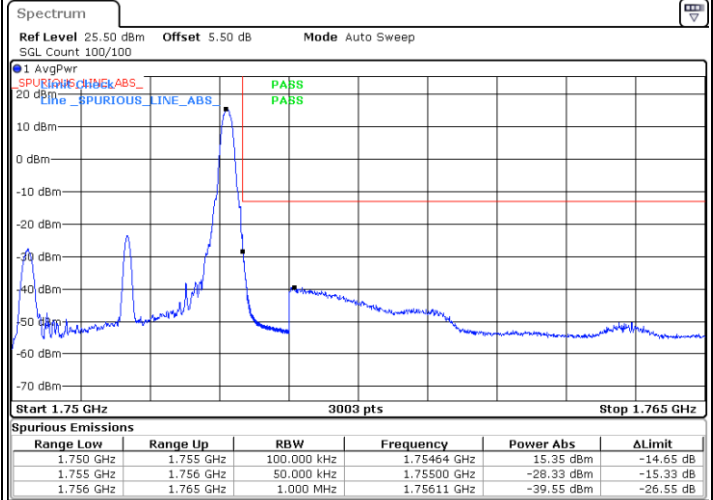


LTE Band 4 / 5MHz / 16QAM

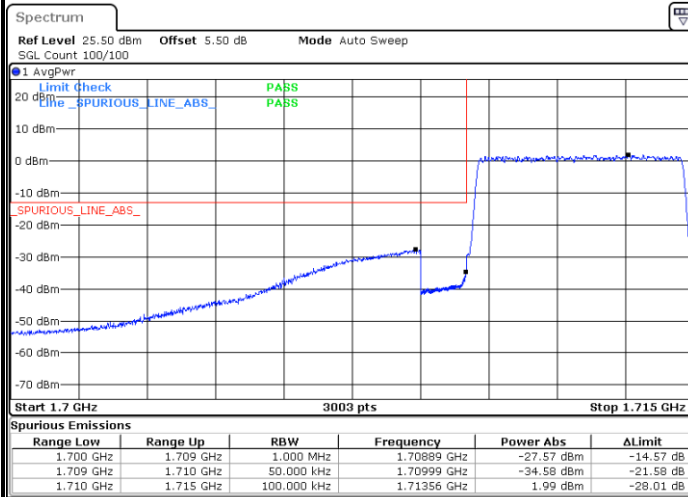
Lowest Band Edge / 1RB



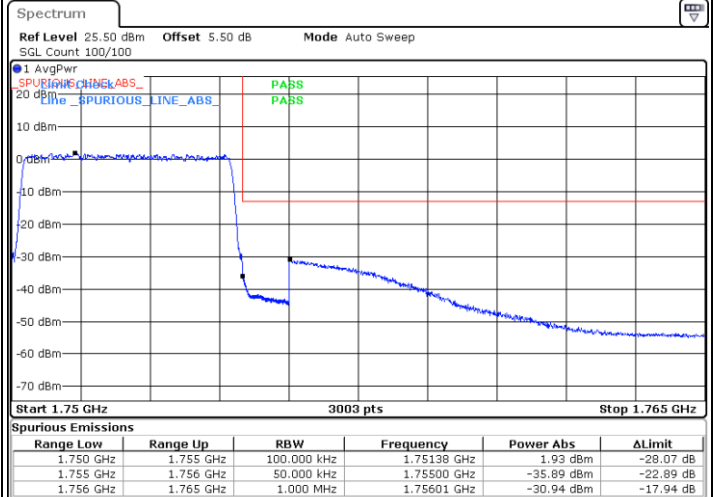
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



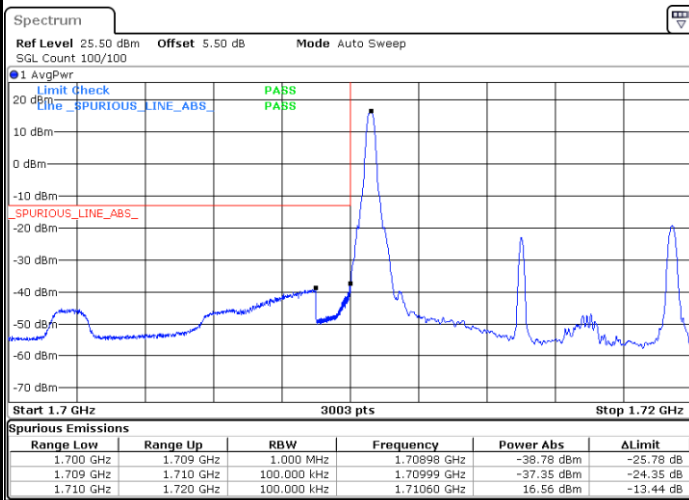
Highest Band Edge / Full RB



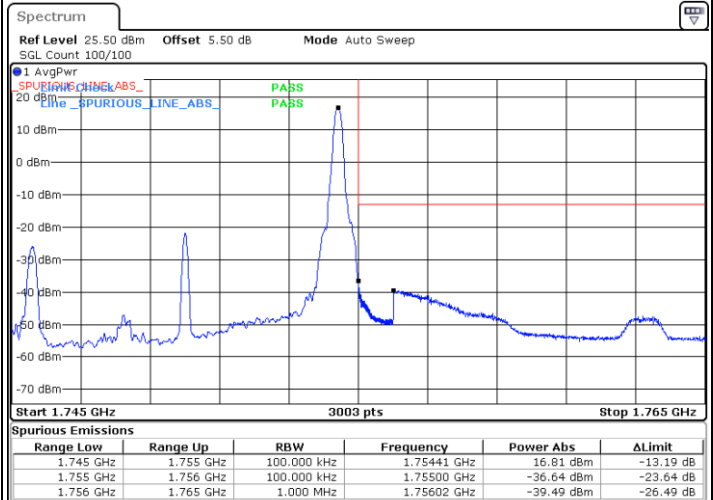


LTE Band 4 / 10MHz / QPSK

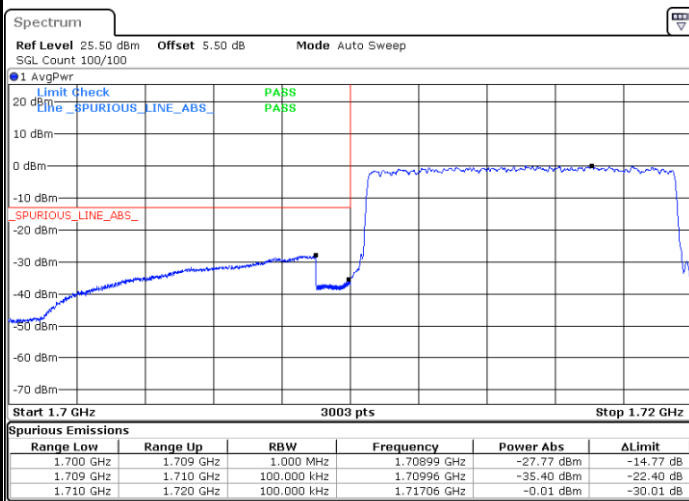
Lowest Band Edge / 1 RB



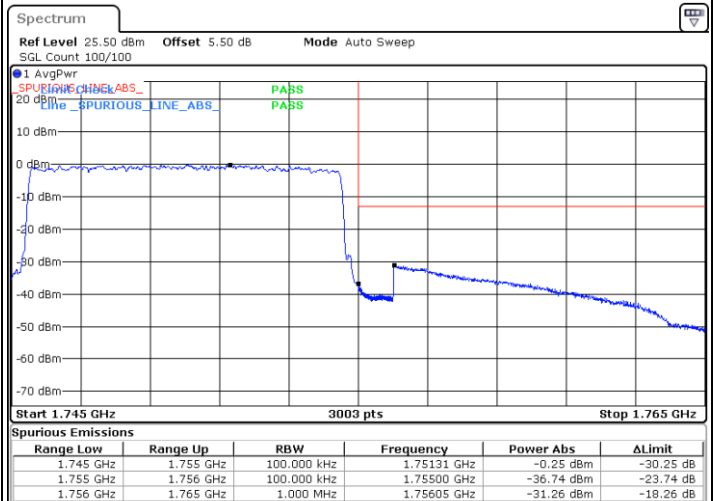
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



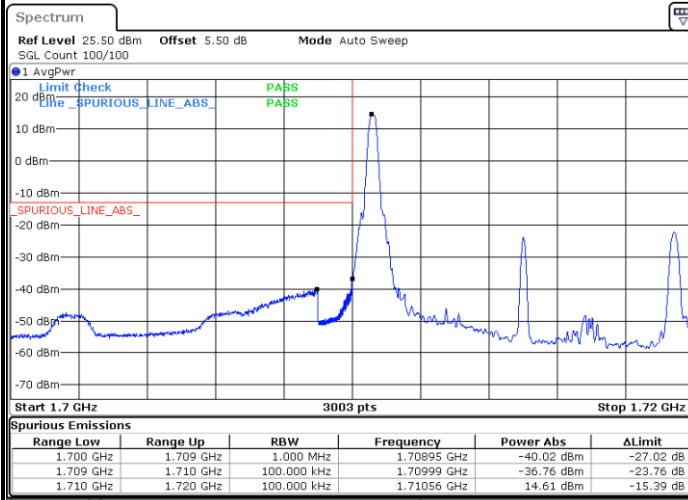
Highest Band Edge / Full RB



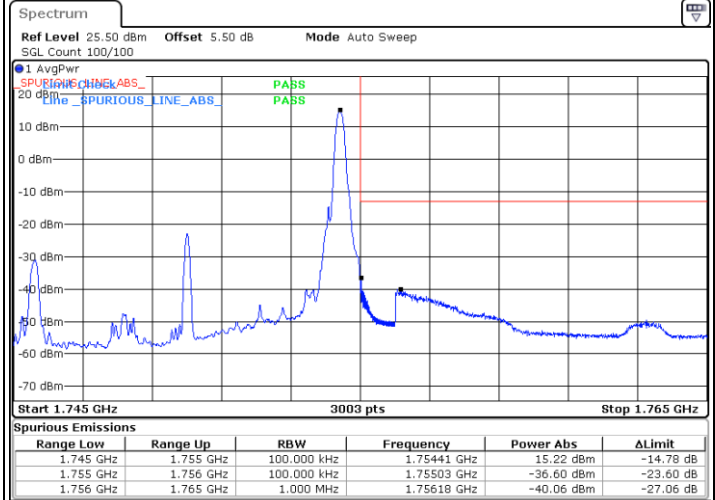


LTE Band 4 / 10MHz / 16QAM

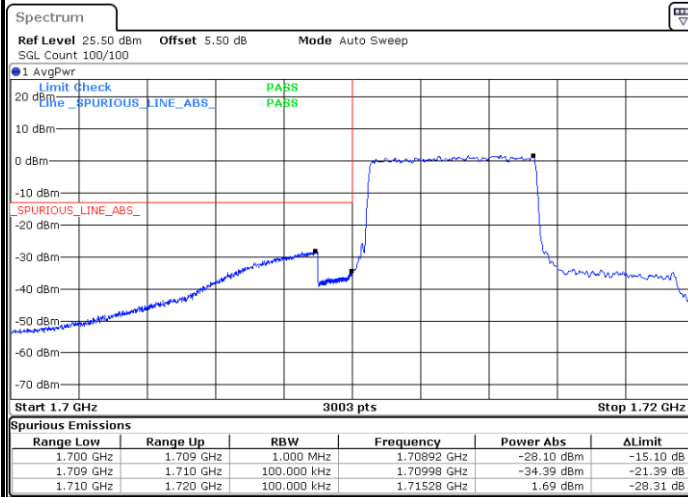
Lowest Band Edge / 1 RB



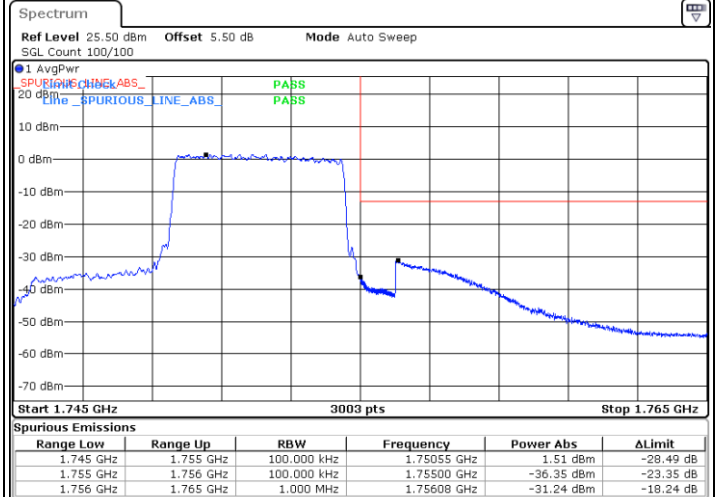
Highest Band Edge / 1 RB



Lowest Band Edge / 27RB



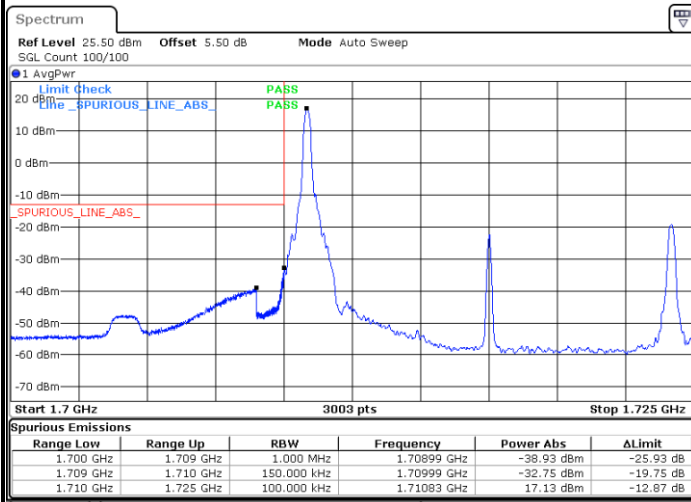
Highest Band Edge / 27 RB23



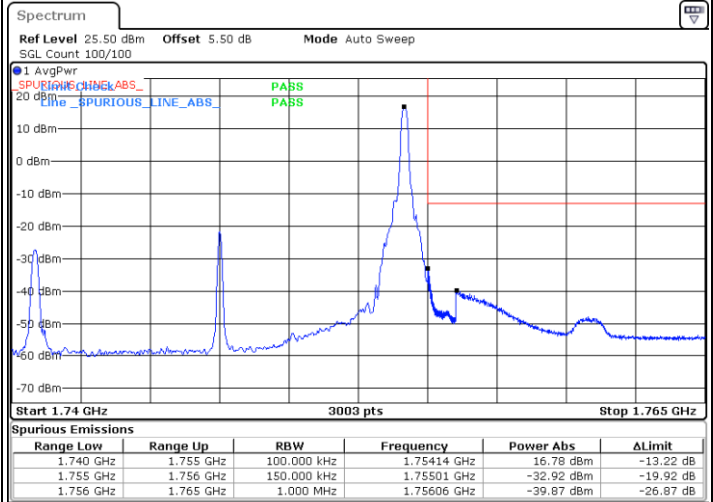


LTE Band 4 / 15MHz / QPSK

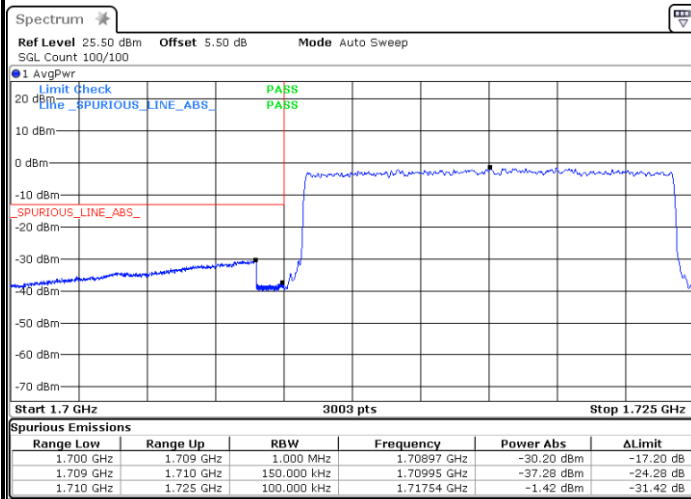
Lowest Band Edge / 1 RB



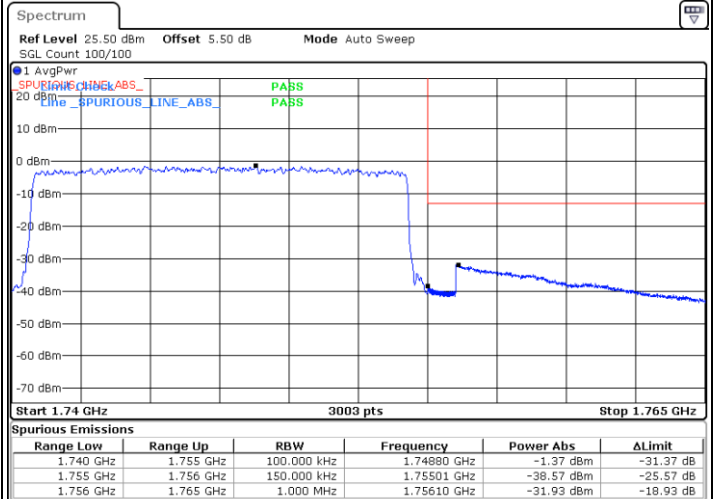
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



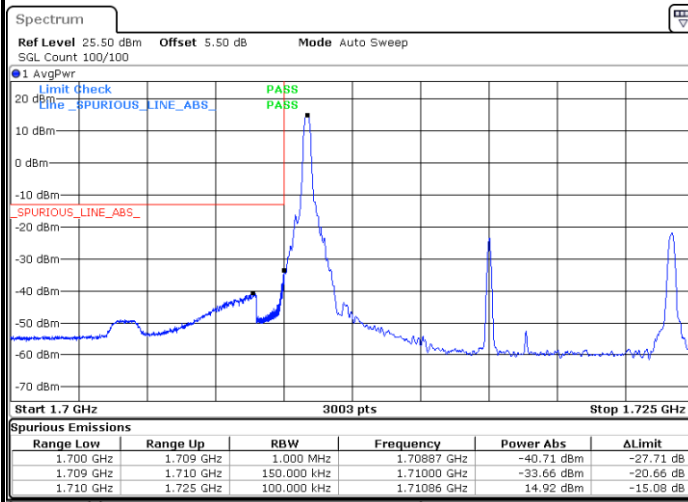
Highest Band Edge / Full RB



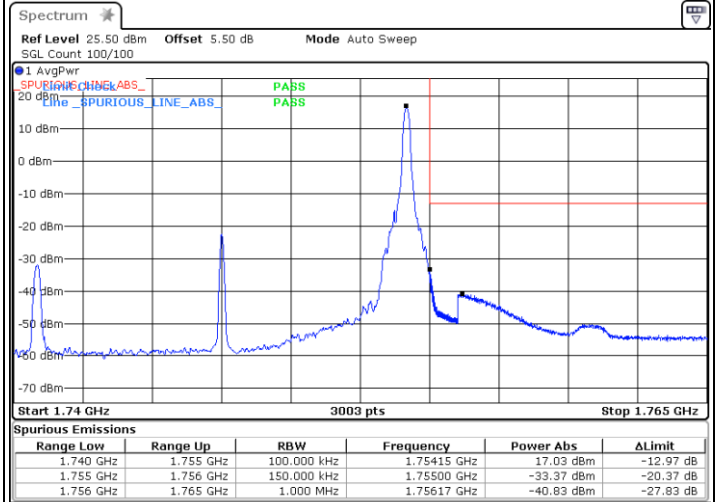


LTE Band 4 / 15MHz / 16QAM

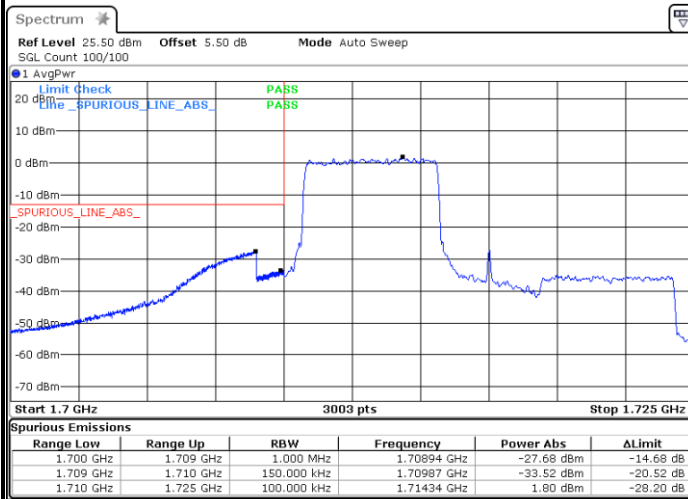
Lowest Band Edge / 1 RB



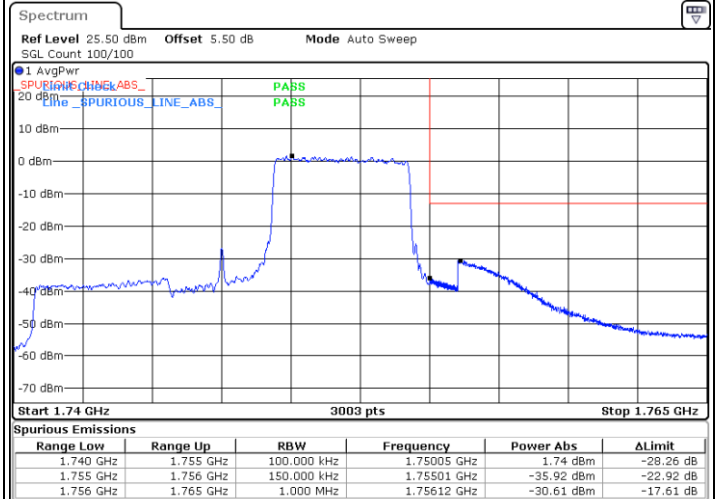
Highest Band Edge / 1 RB



Lowest Band Edge / 27RB



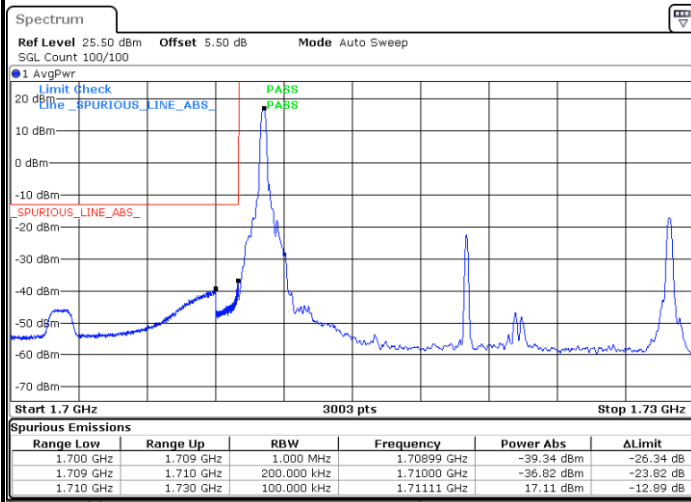
Highest Band Edge / 27 RB48



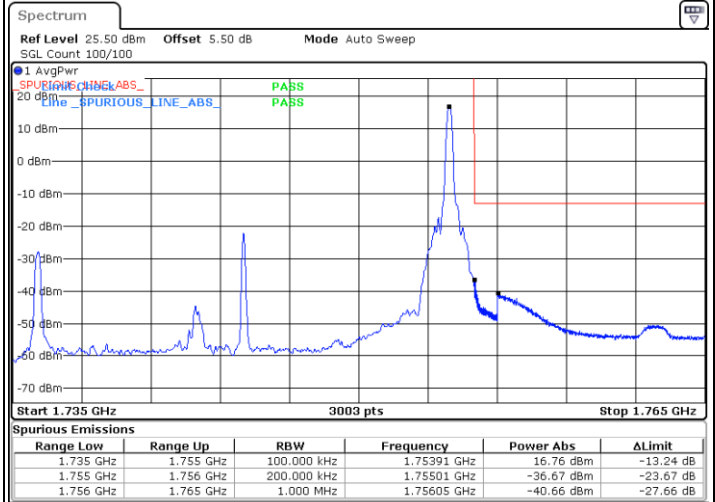


LTE Band 4 / 20MHz / QPSK

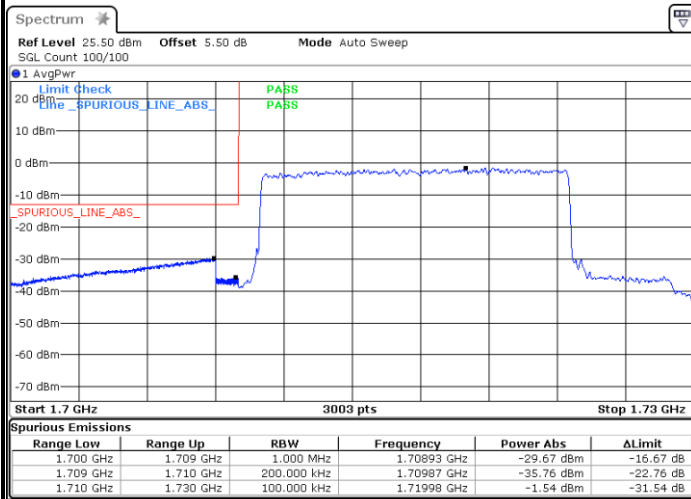
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



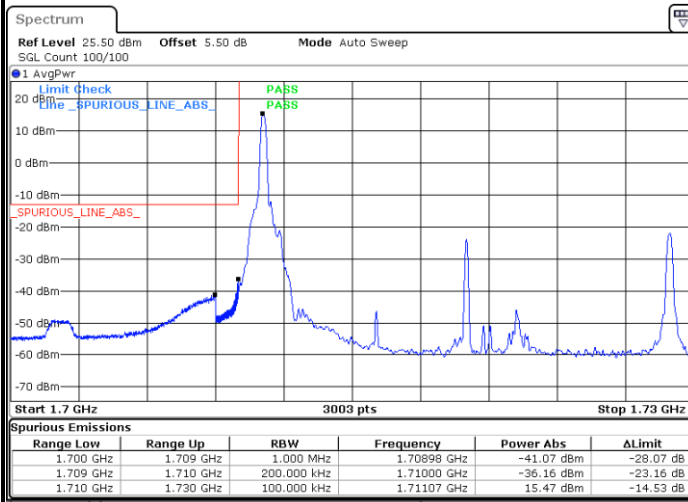
Highest Band Edge / Full RB



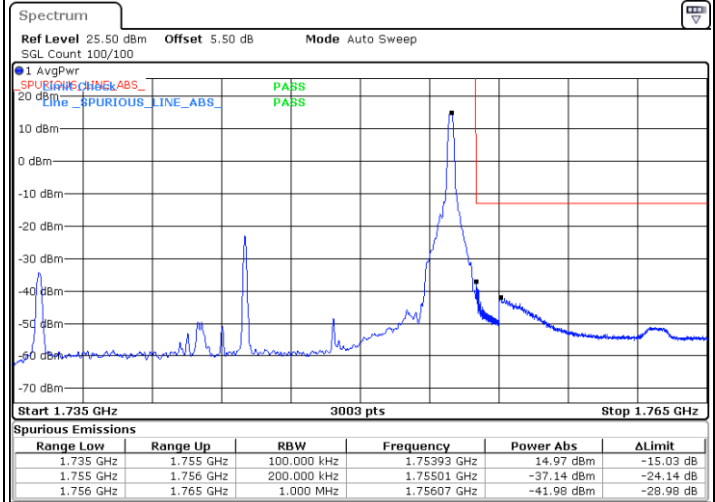


LTE Band 4 / 20MHz / 16QAM

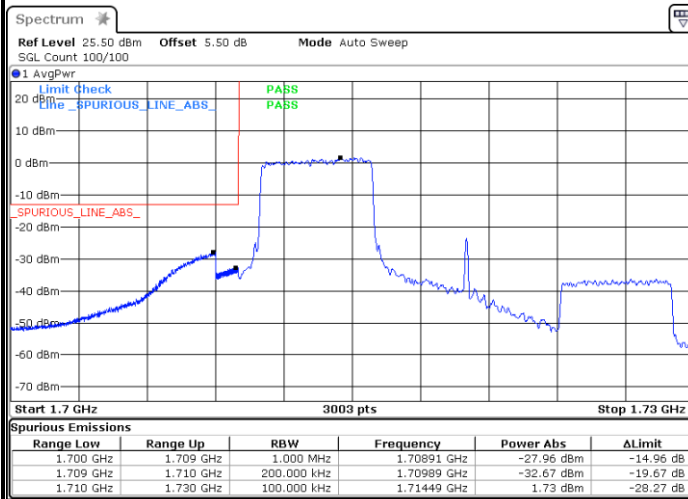
Lowest Band Edge / 1 RB



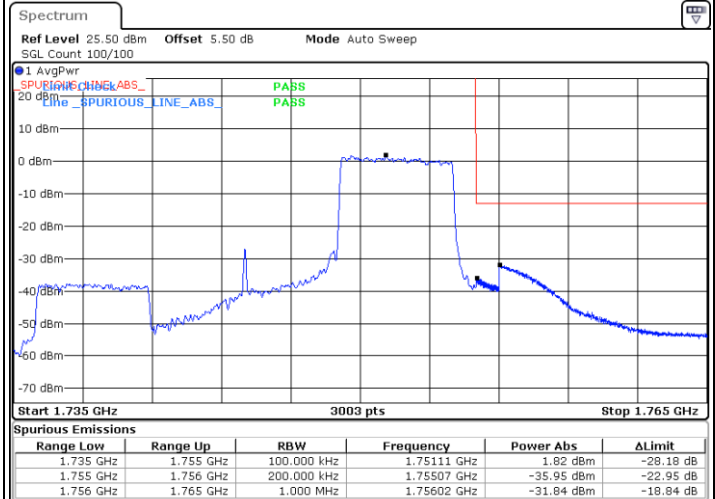
Highest Band Edge / 1 RB



Lowest Band Edge / 27 RB



Highest Band Edge / 27 RB73



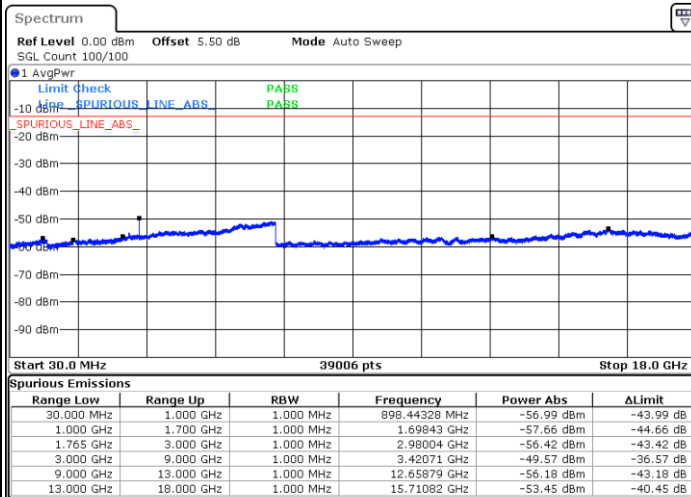


Conducted Spurious Emission

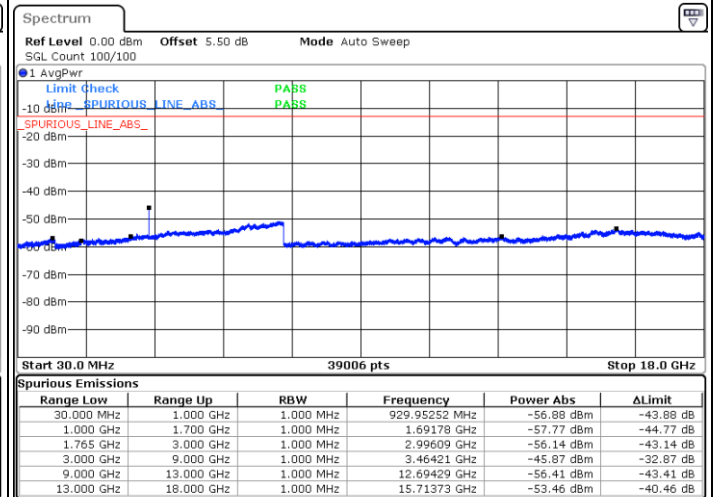
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

Middle Channel / QPSK

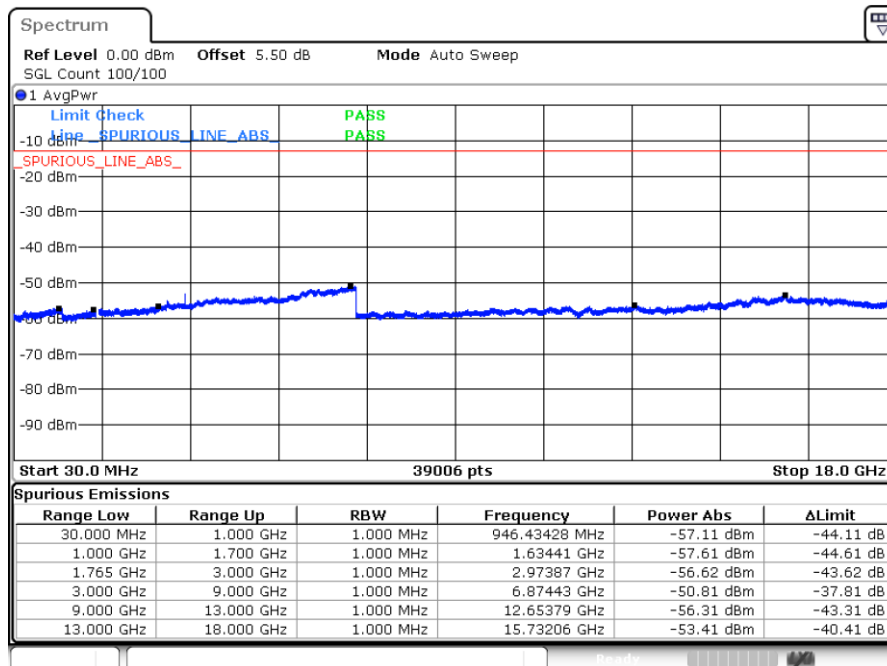


Date: 13.JUN.2025 10:28:11



Date: 13.JUN.2025 10:33:51

Highest Channel / QPSK



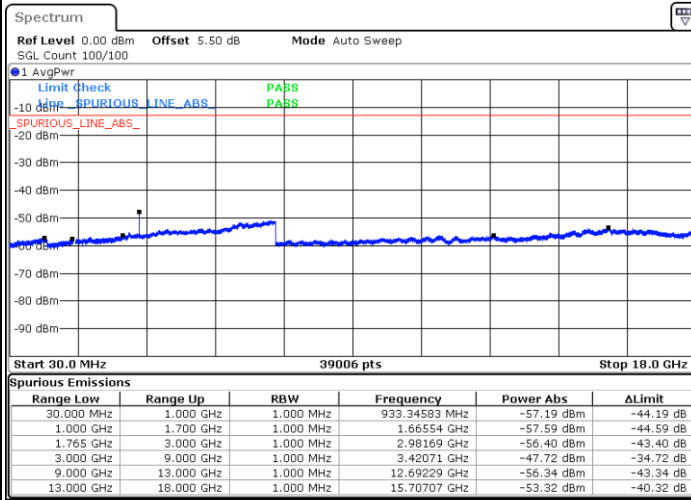
Date: 13.JUN.2025 10:36:37



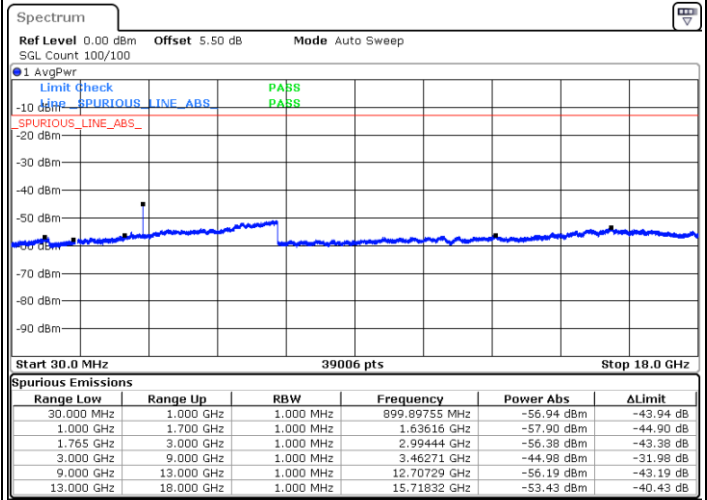
LTE Band 4 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

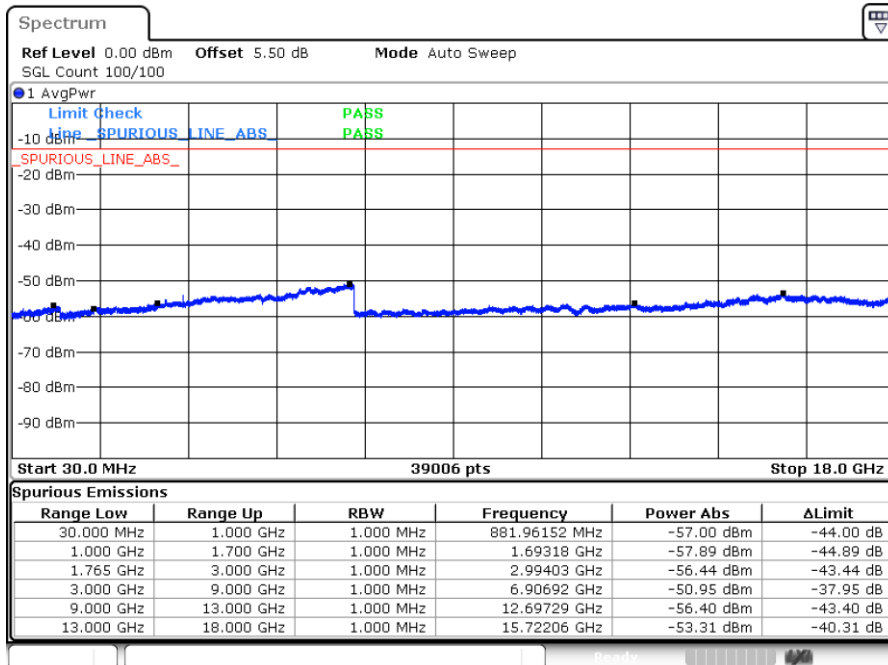


Date: 13.JUN.2025 10:46:55



Date: 13.JUN.2025 10:51:54

Highest Channel / QPSK

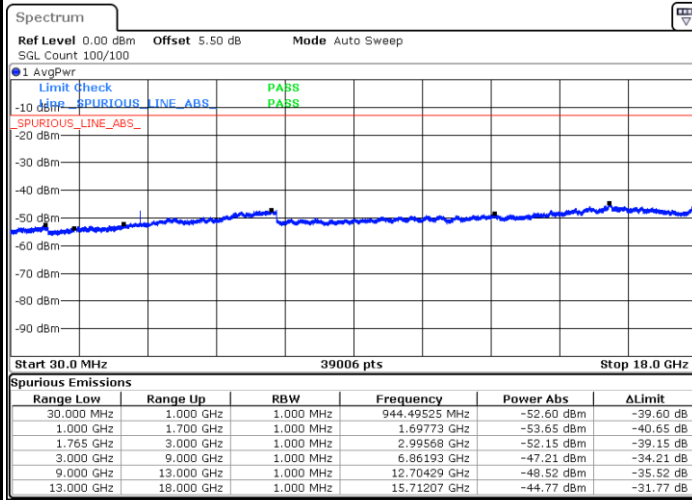


Date: 13.JUN.2025 10:54:18



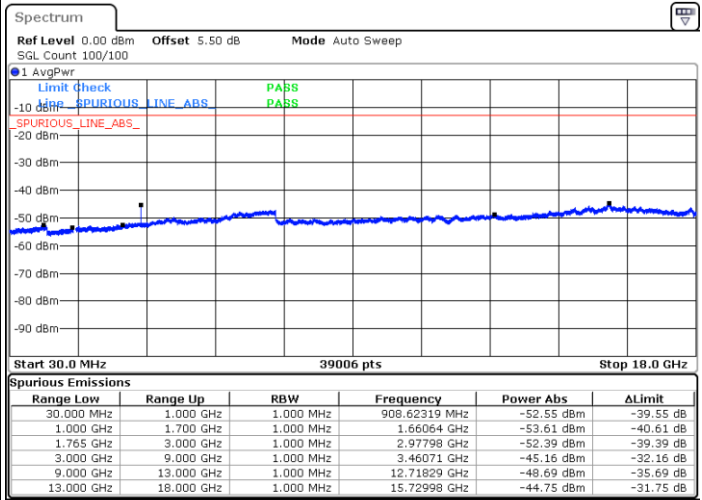
LTE Band 4 / 5MHz

Lowest Channel / QPSK



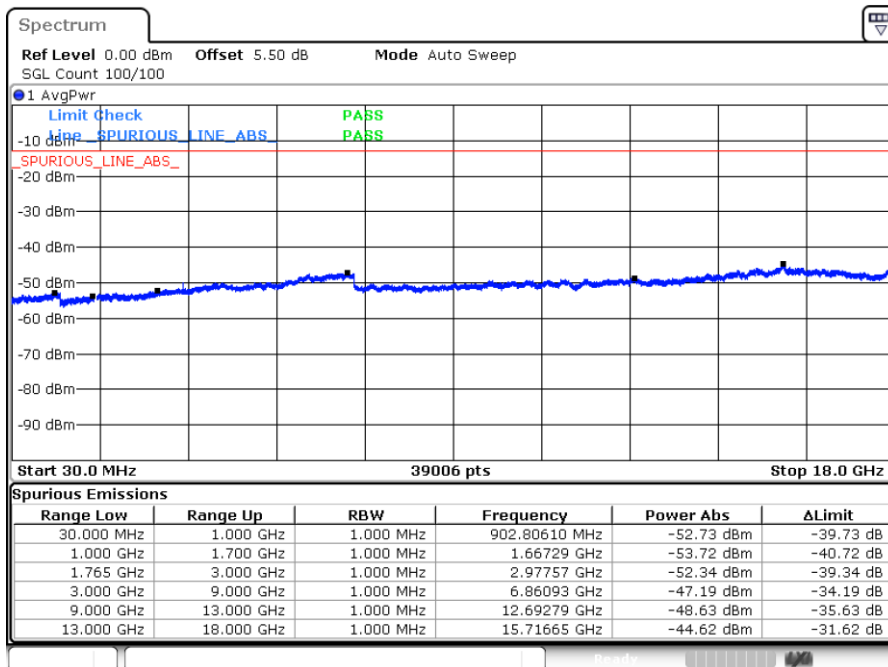
Date: 13.JUN.2025 11:02:36

Middle Channel / QPSK



Date: 13.JUN.2025 11:05:25

Highest Channel / QPSK

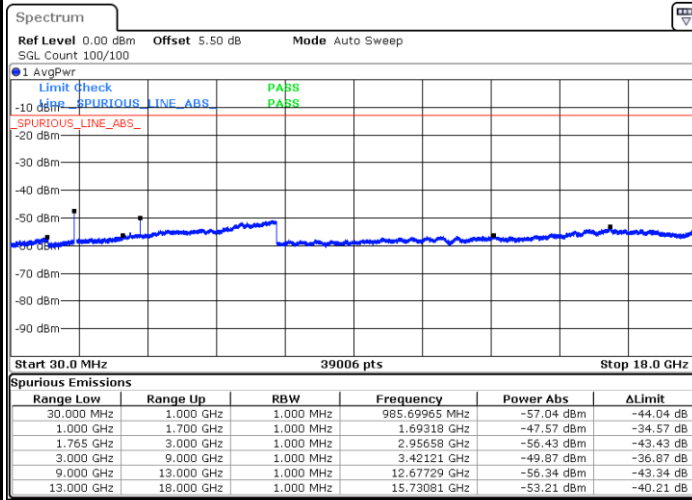


Date: 13.JUN.2025 11:11:42



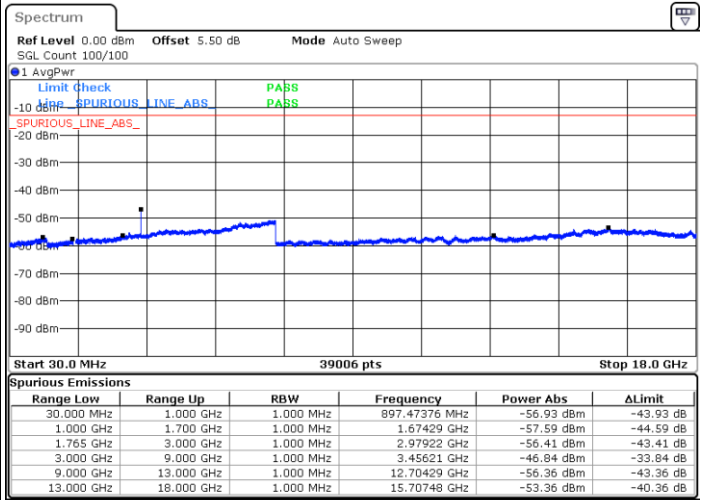
LTE Band 4 / 10MHz

Lowest Channel / QPSK



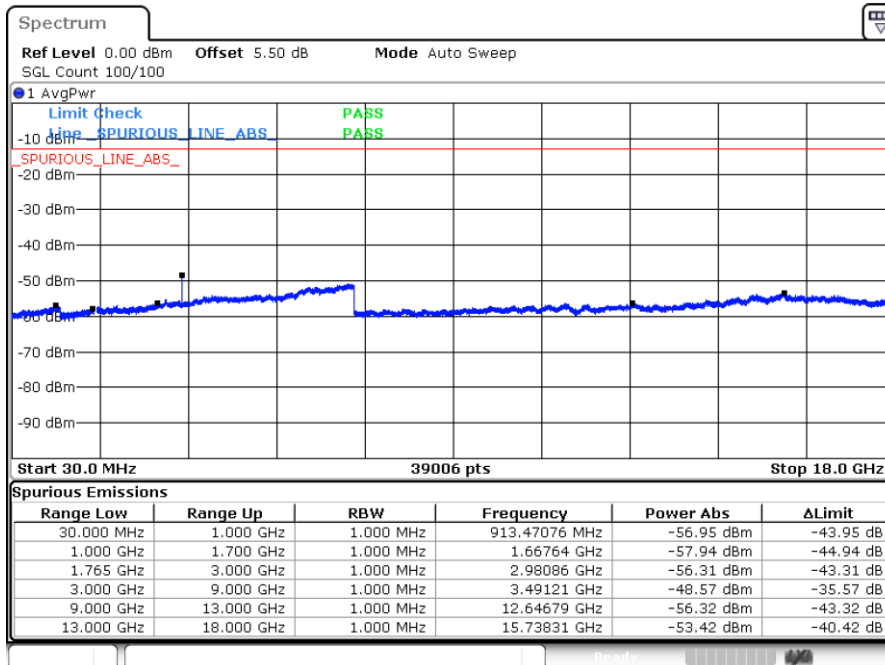
Date: 13.JUN.2025 11:18:13

Middle Channel / QPSK



Date: 13.JUN.2025 11:32:49

Highest Channel / QPSK

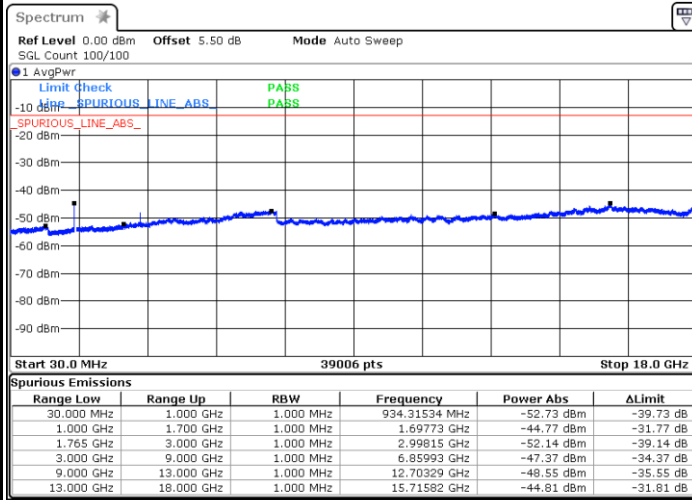


Date: 13.JUN.2025 11:34:11



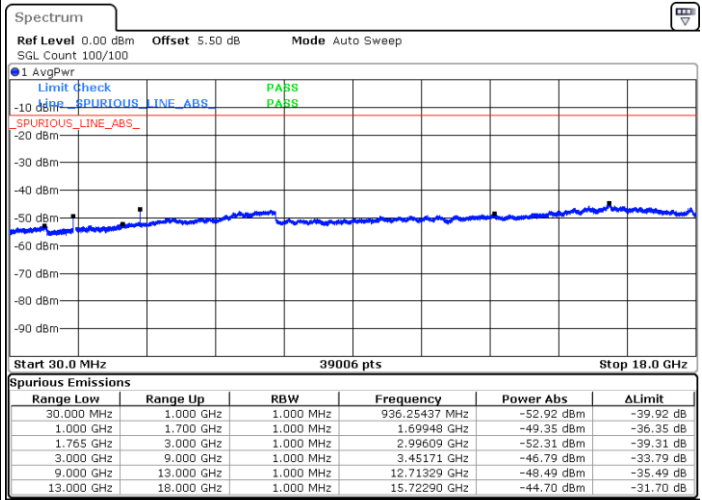
LTE Band 4 / 15MHz

Lowest Channel / QPSK



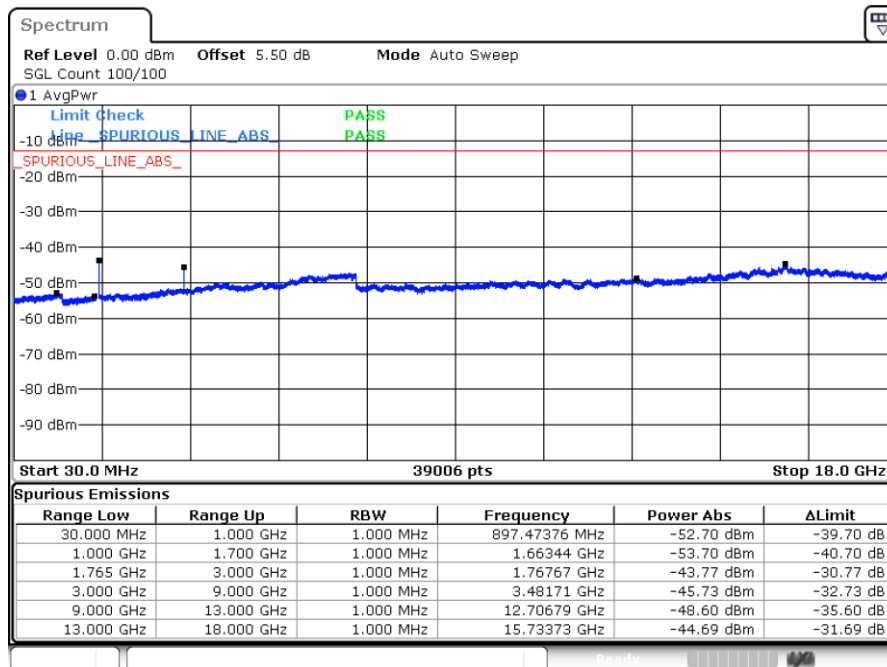
Date: 13.JUN.2025 11:43:07

Middle Channel / QPSK



Date: 13.JUN.2025 13:12:19

Highest Channel / QPSK

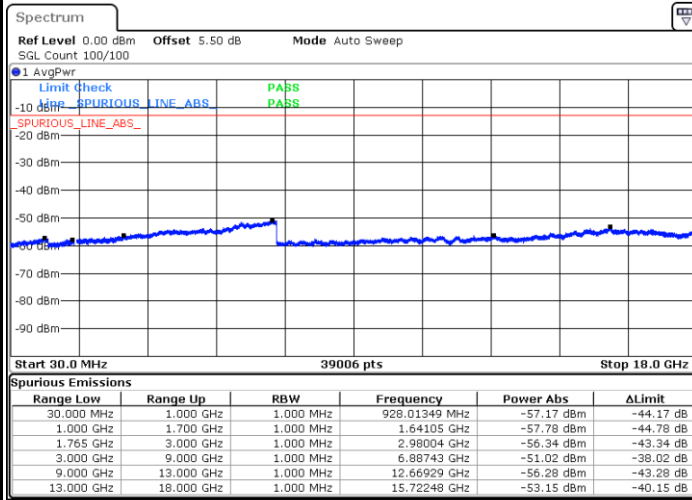


Date: 13.JUN.2025 13:23:31



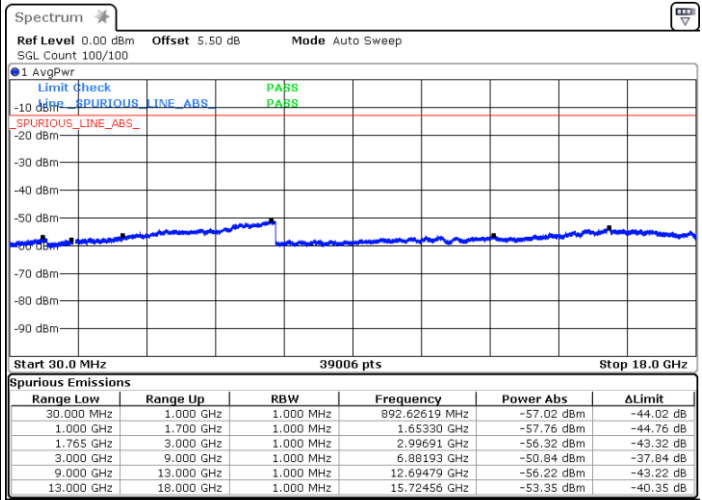
LTE Band 4 / 20MHz

Lowest Channel / QPSK



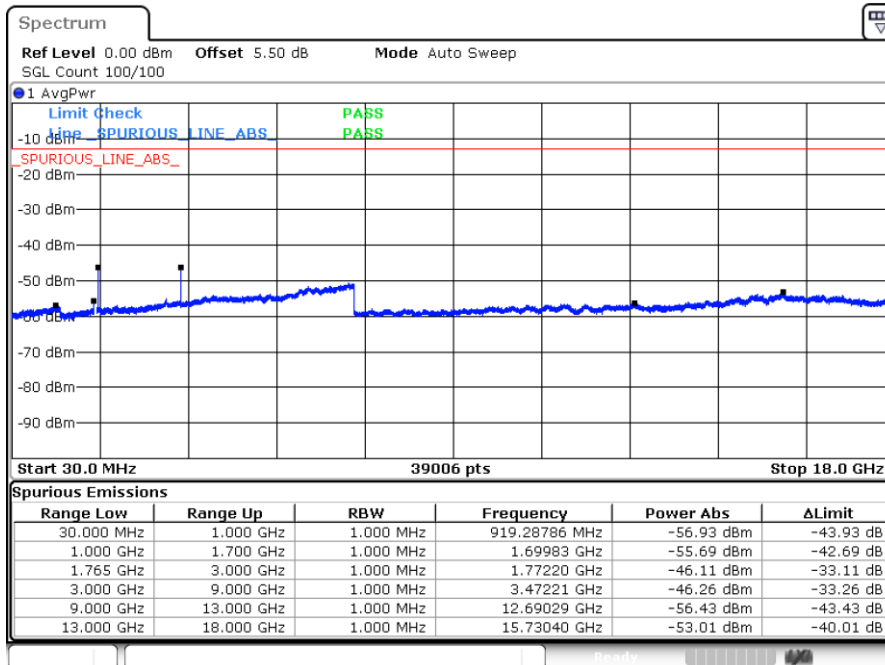
Date: 13.JUN.2025 13:26:10

Middle Channel / QPSK



Date: 13.JUN.2025 13:36:12

Highest Channel / QPSK



Date: 13.JUN.2025 13:37:23

**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	0.0034	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0037	
20	Normal Voltage	0.0023	

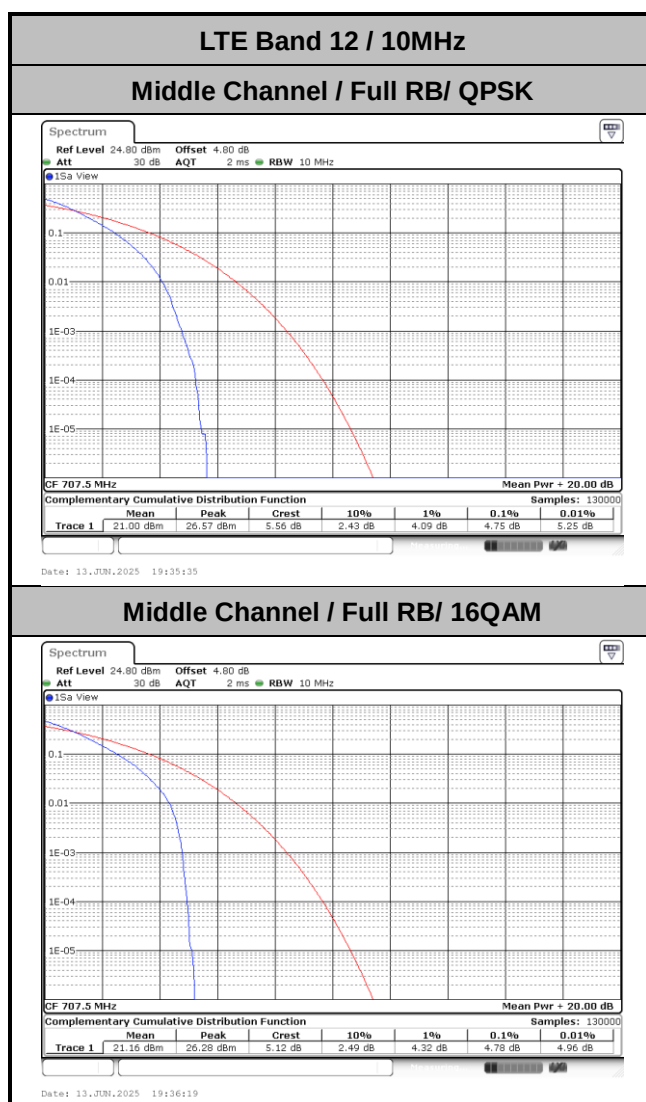
Note:

1. Normal Voltage = 3.8V
2. The low voltage and high voltage condition test result are leveraged from module RF report.
3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

LTE Band 12

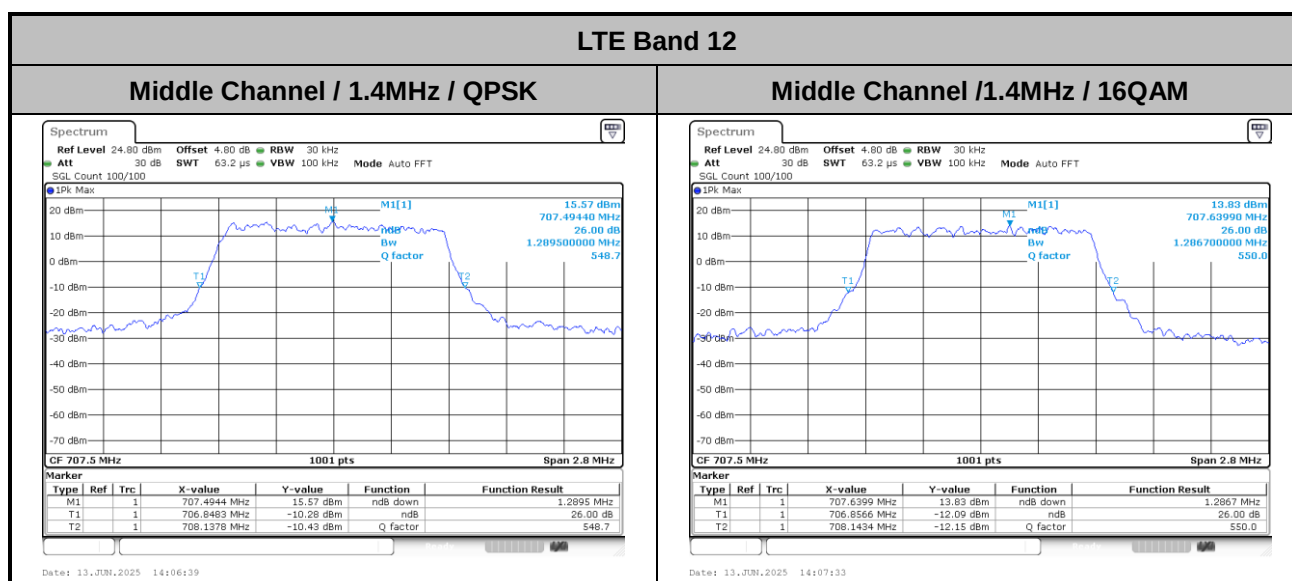
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.75	4.78	PASS



**26dB Bandwidth**

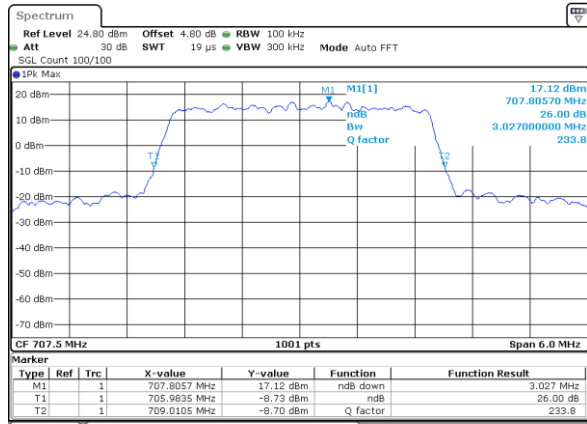
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.29	1.29
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.03	3.00
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.88	4.92
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.95	6.01





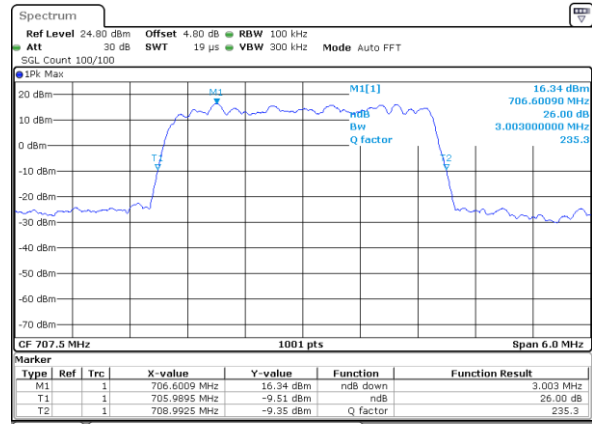
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 13 JUN 2025 14:49:45

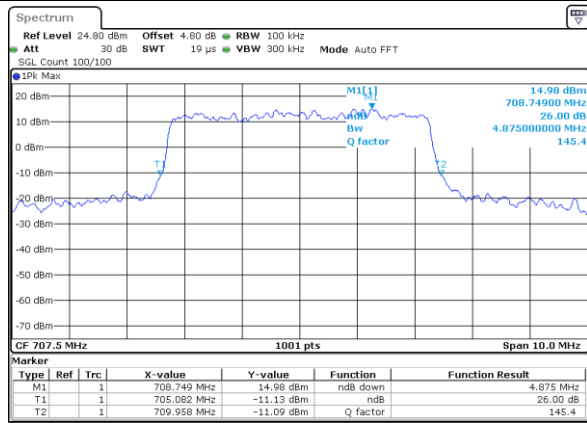
Middle Channel / 3MHz / 16QAM



Date: 13 JUN 2025 14:50:45

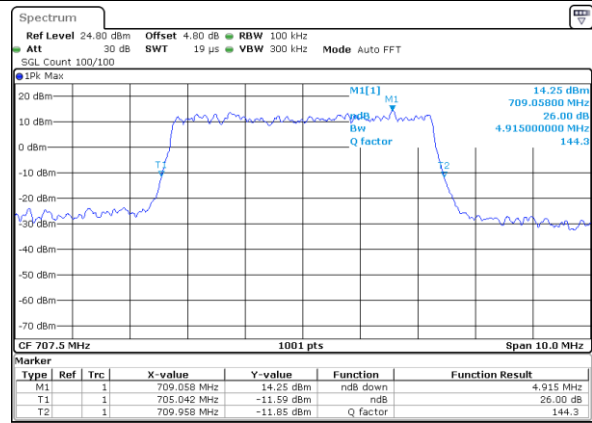
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 13 JUN 2025 15:04:23

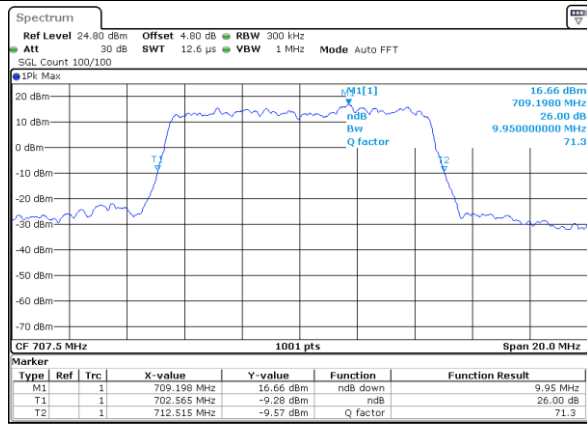
Middle Channel / 5MHz / 16QAM



Date: 13 JUN 2025 15:05:22

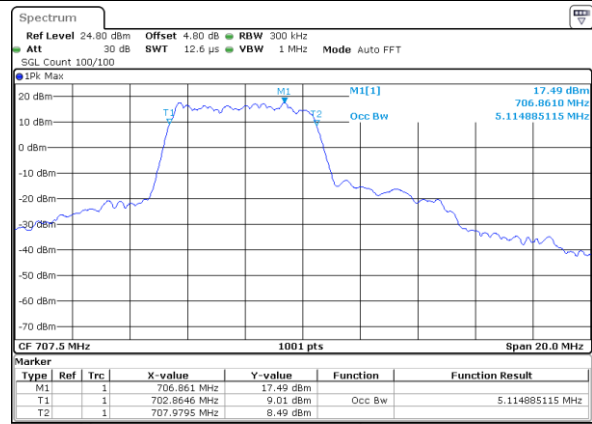
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 13 JUN 2025 15:23:19

Middle Channel / 10MHz / 16QAM



Date: 13 JUN 2025 19:17:36