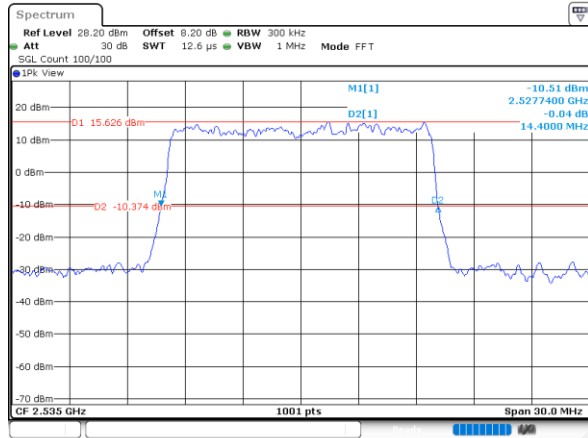


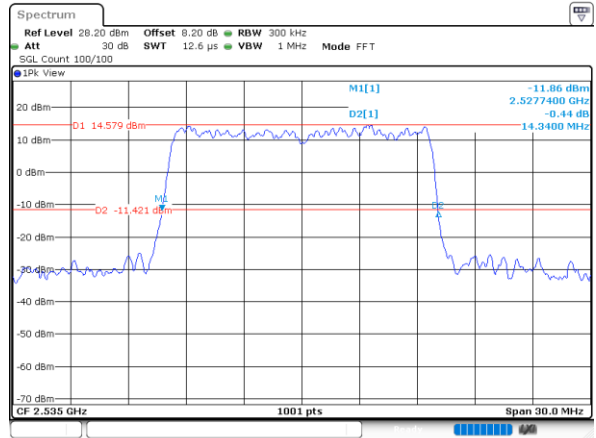


LTE Band 7

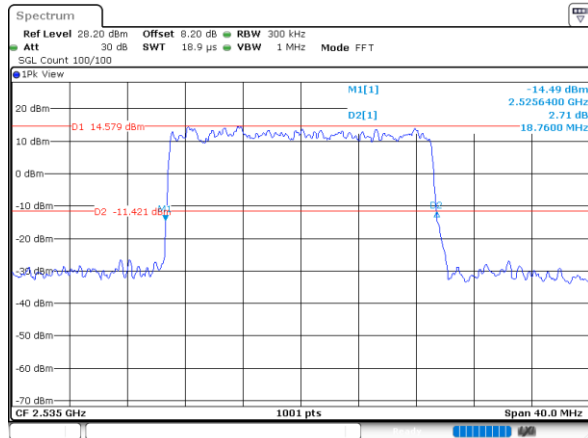
Middle Channel / 15MHz / QPSK



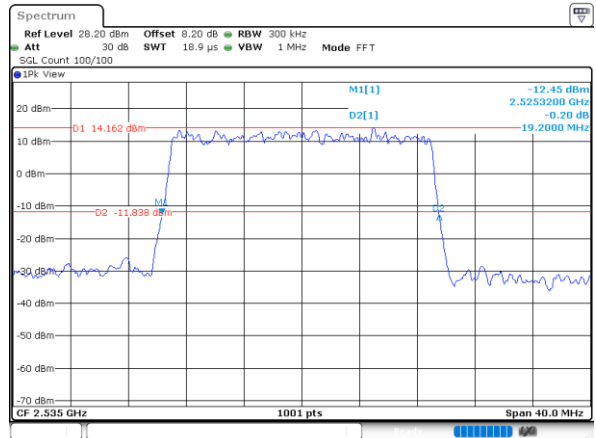
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



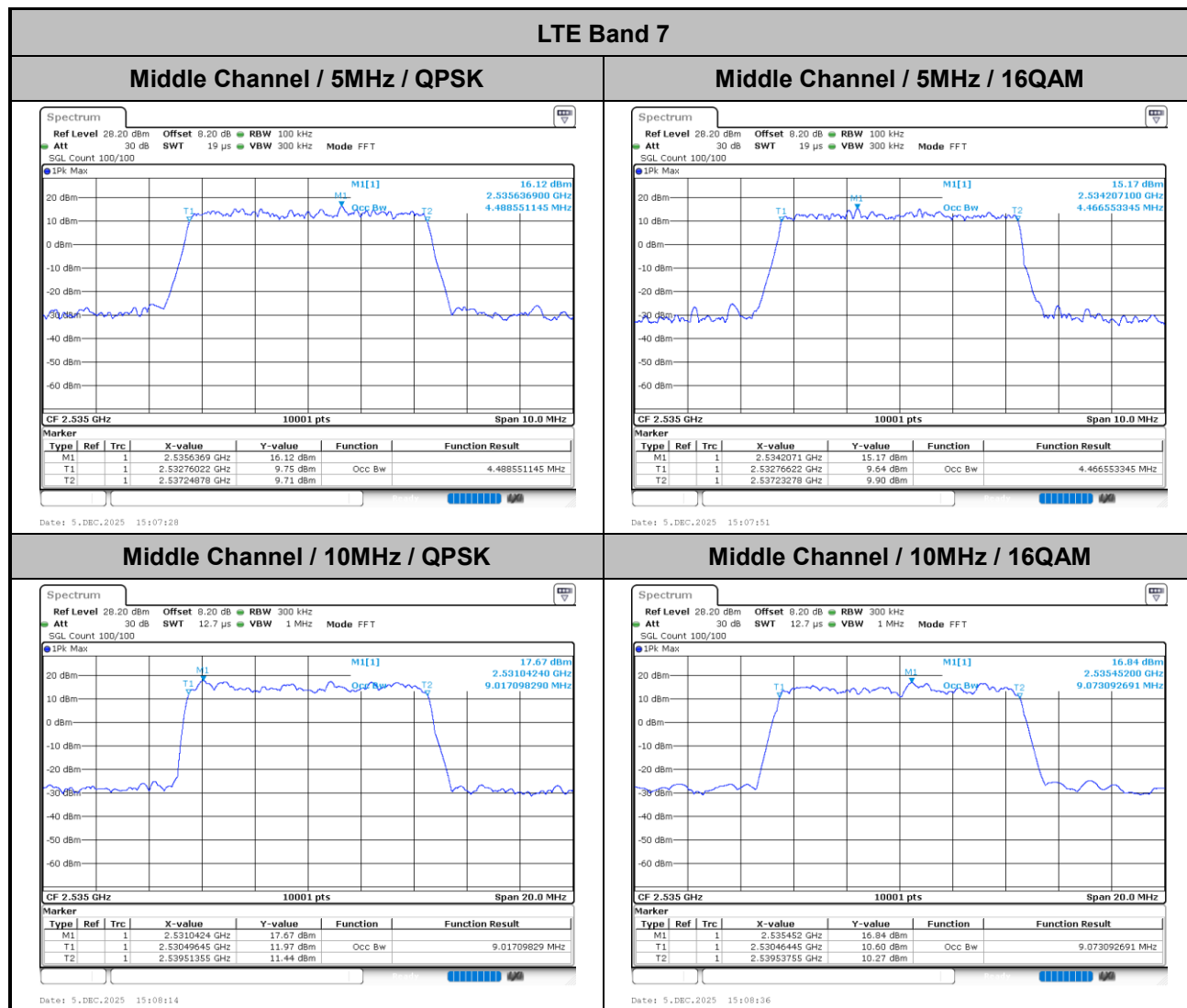
Middle Channel / 20MHz / 16QAM





Occupied Bandwidth

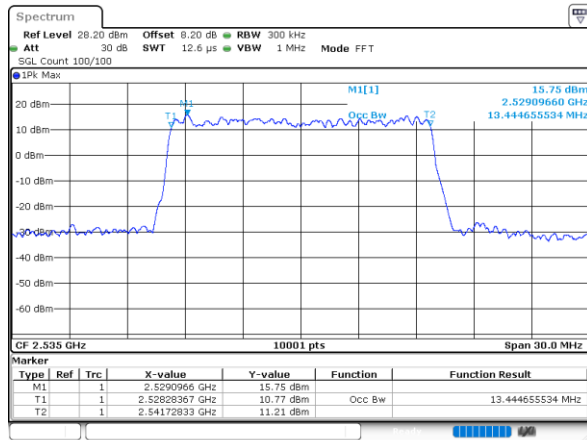
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.46	9.01	9.07	13.44	13.43	17.89	17.87



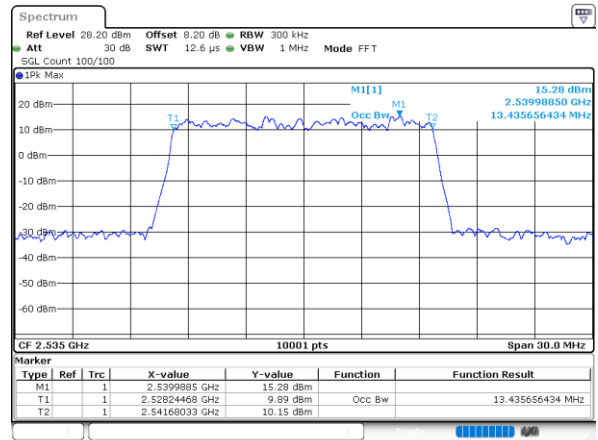


LTE Band 7

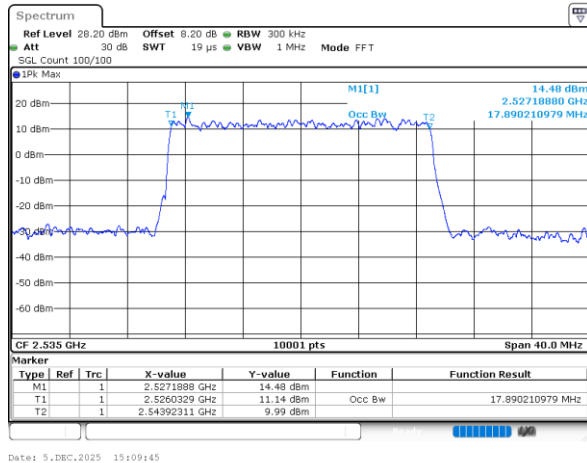
Middle Channel / 15MHz / QPSK



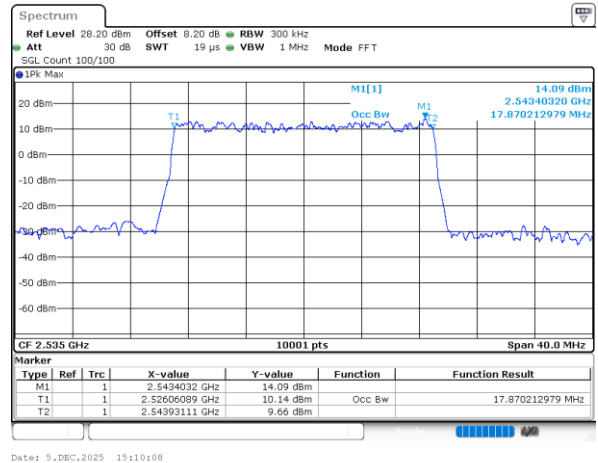
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

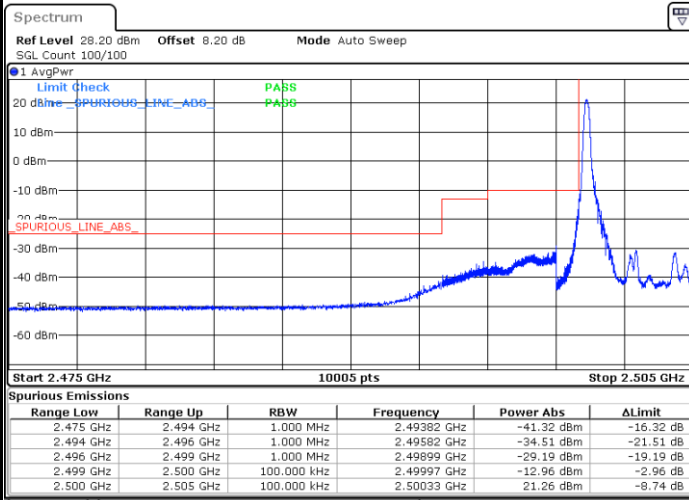




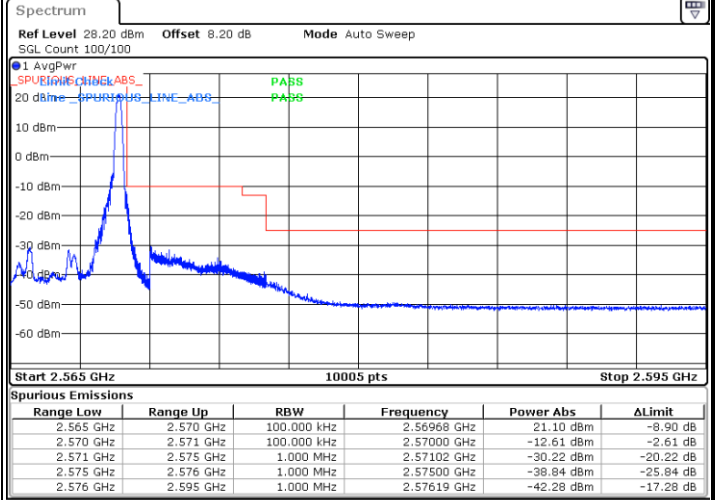
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

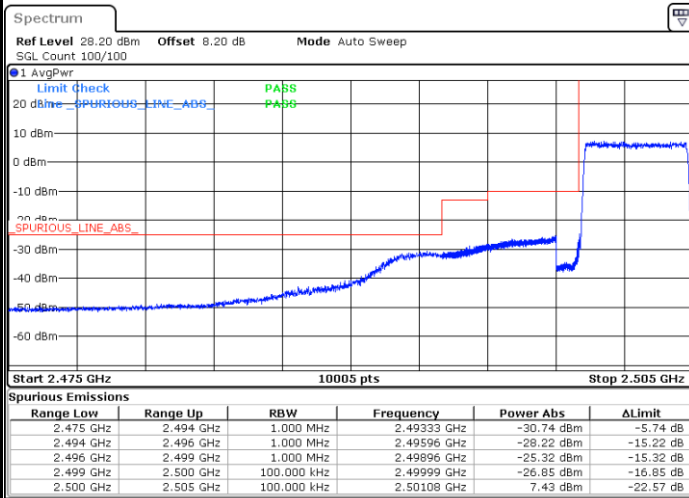
Lowest Band Edge / 1 RB



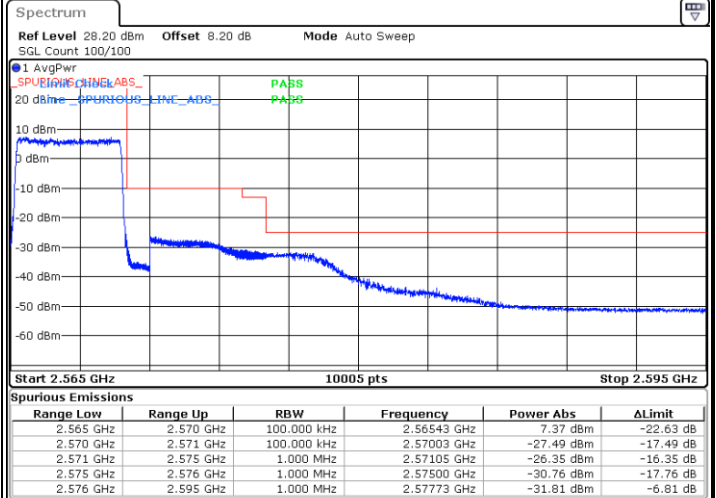
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



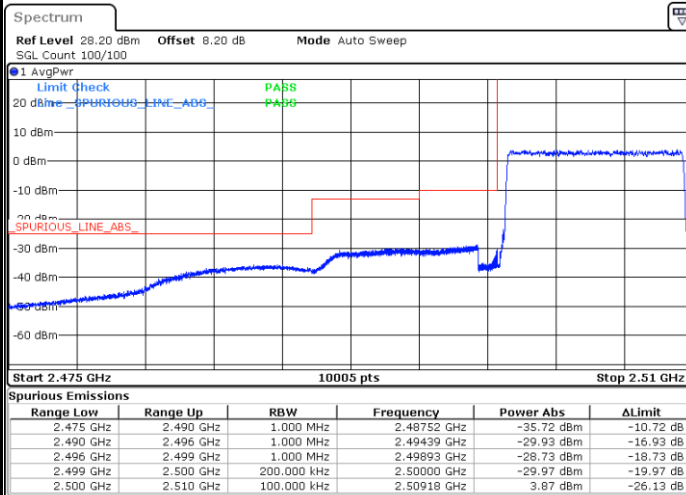
Highest Band Edge / Full RB



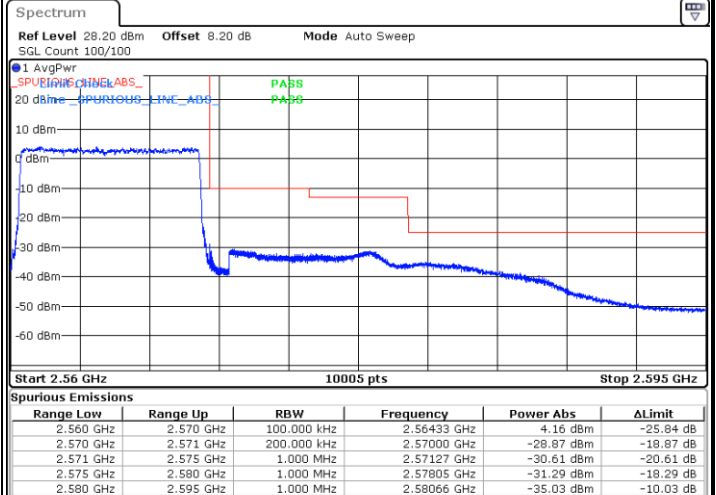


LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / Full RB

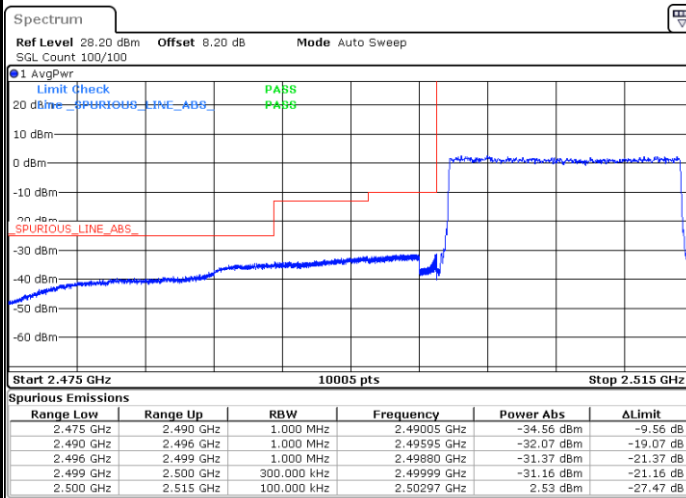


Highest Band Edge / Full RB

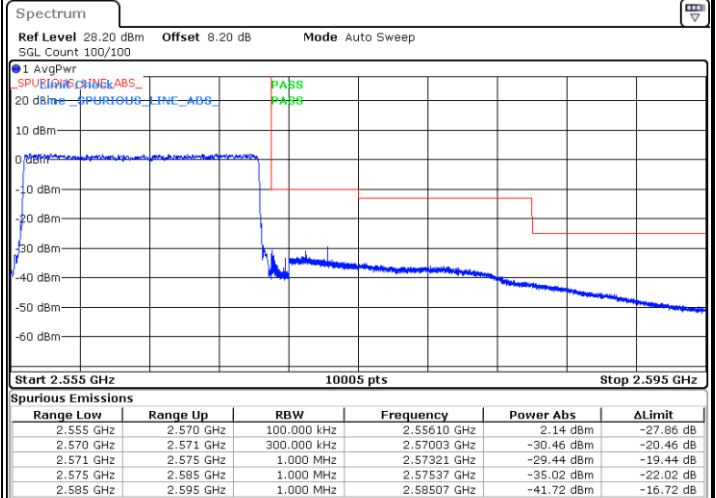


LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

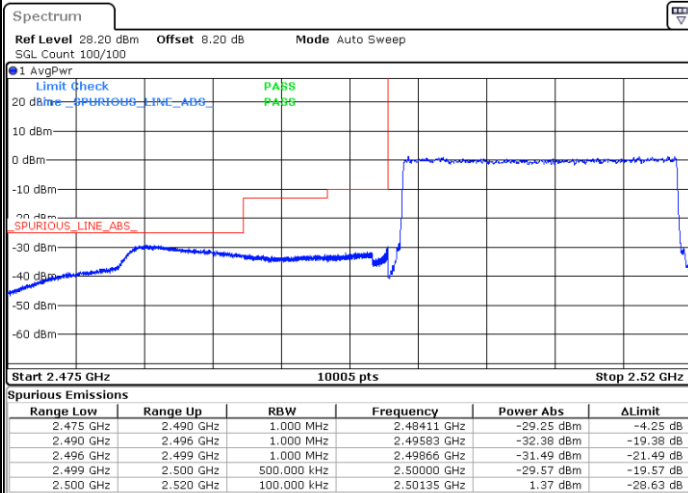




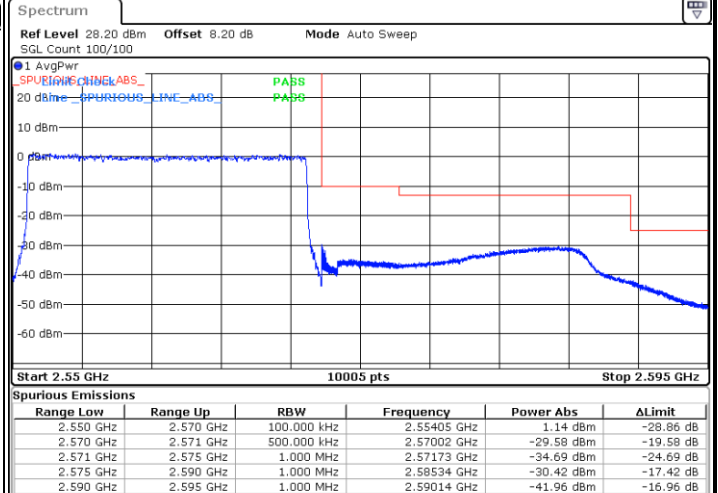
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.NOV.2025 09:32:10



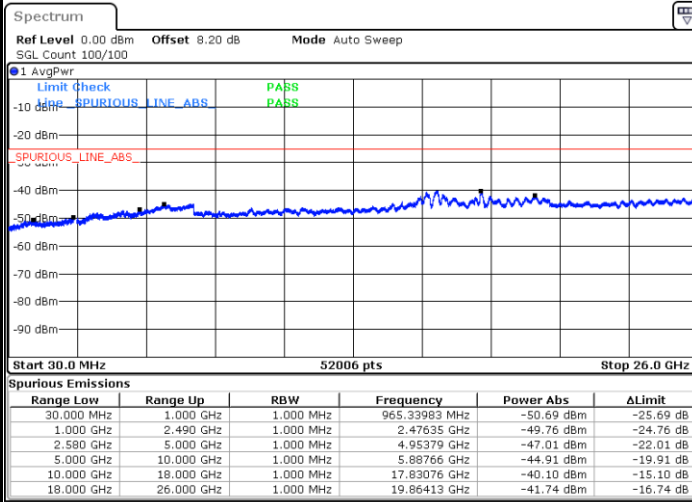
Date: 24.NOV.2025 09:33:42



Conducted Spurious Emission

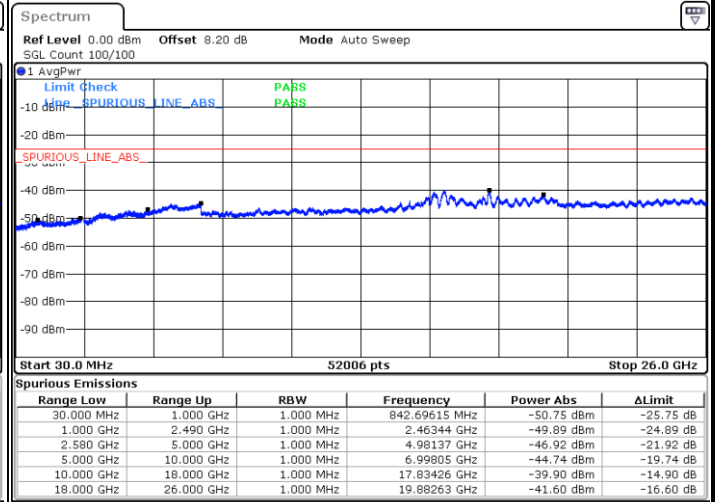
LTE Band 7 / 5MHz

Lowest Channel / QPSK



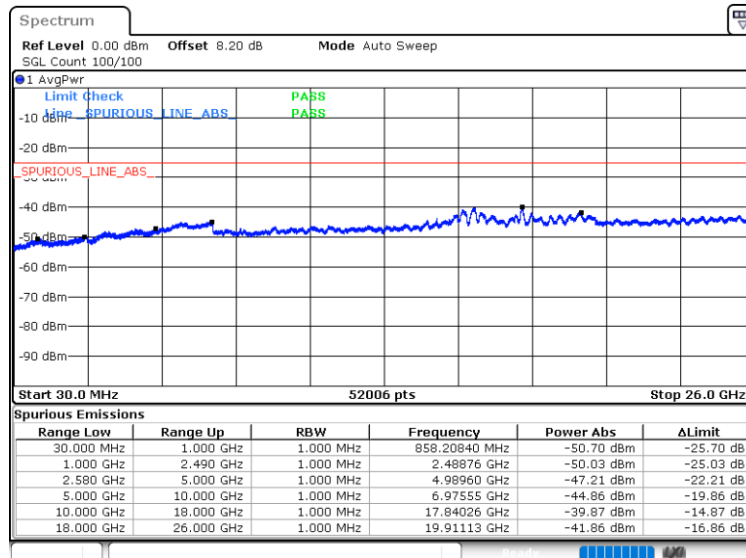
Date: 24.NOV.2025 09:56:09

Middle Channel / QPSK



Date: 24.NOV.2025 09:57:48

Highest Channel / QPSK

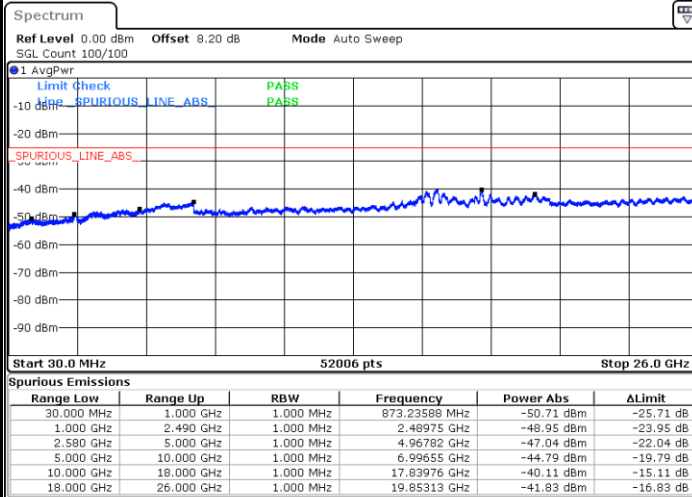


Date: 24.NOV.2025 09:59:37



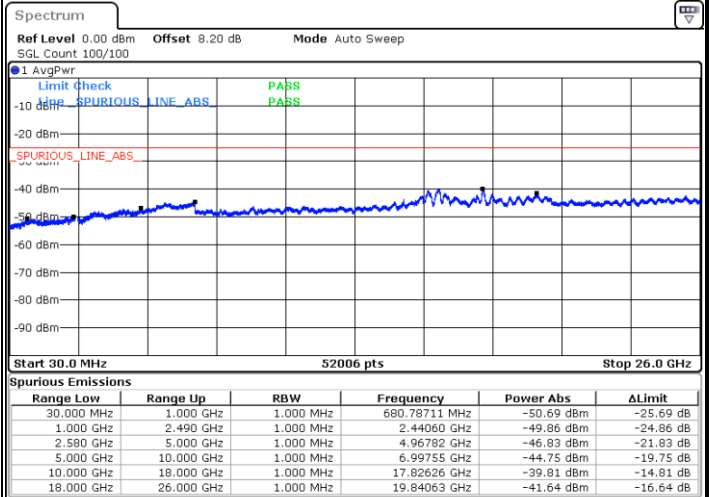
LTE Band 7 / 10MHz

Lowest Channel / QPSK



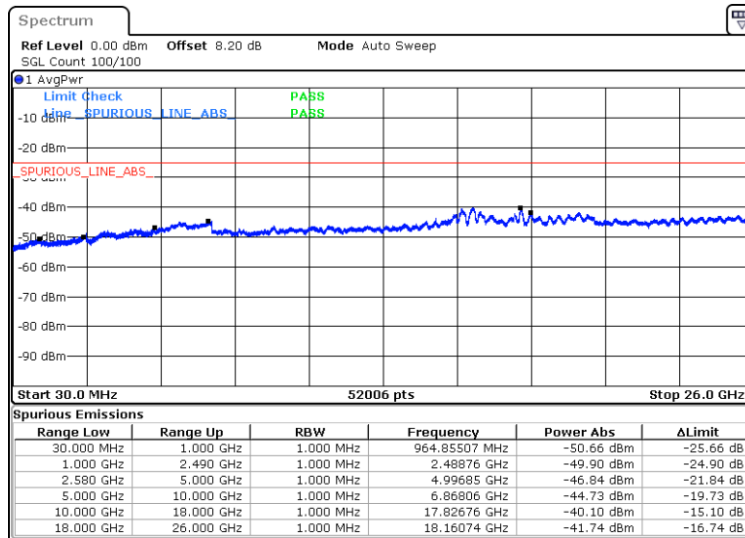
Date: 24.NOV.2025 10:01:43

Middle Channel / QPSK



Date: 24.NOV.2025 10:03:45

Highest Channel / QPSK

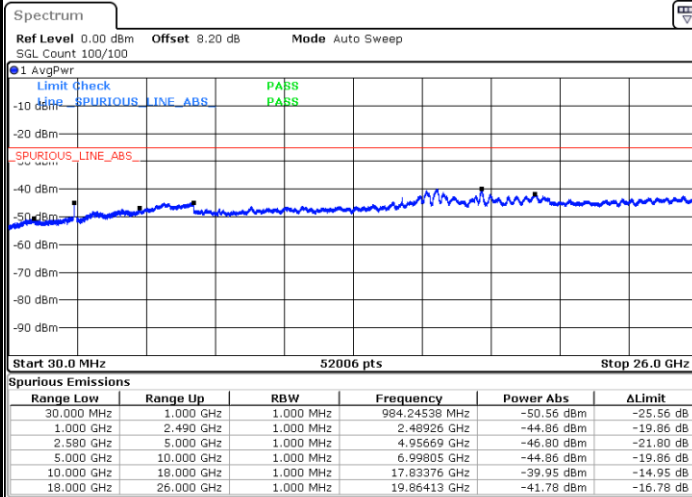


Date: 24.NOV.2025 10:05:34



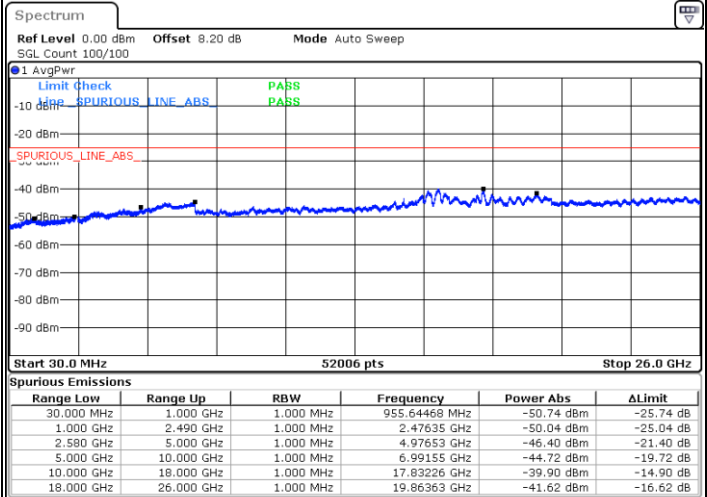
LTE Band 7 / 15MHz

Lowest Channel / QPSK



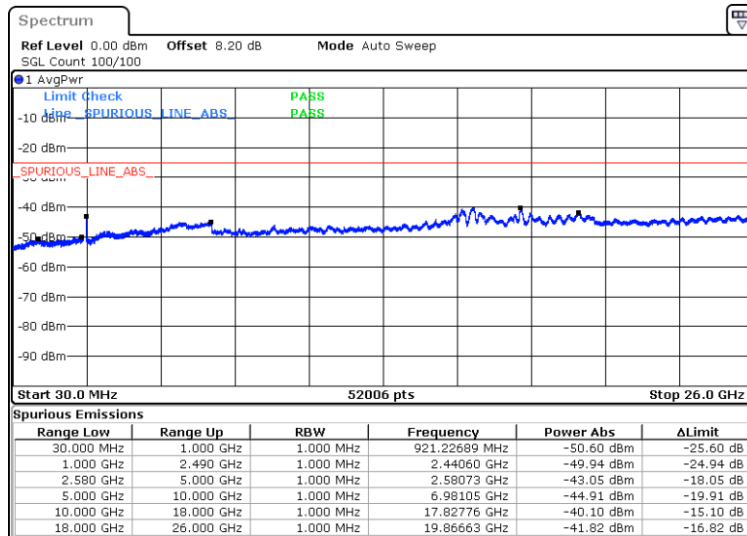
Date: 24.NOV.2025 10:07:12

Middle Channel / QPSK



Date: 24.NOV.2025 10:09:06

Highest Channel / QPSK

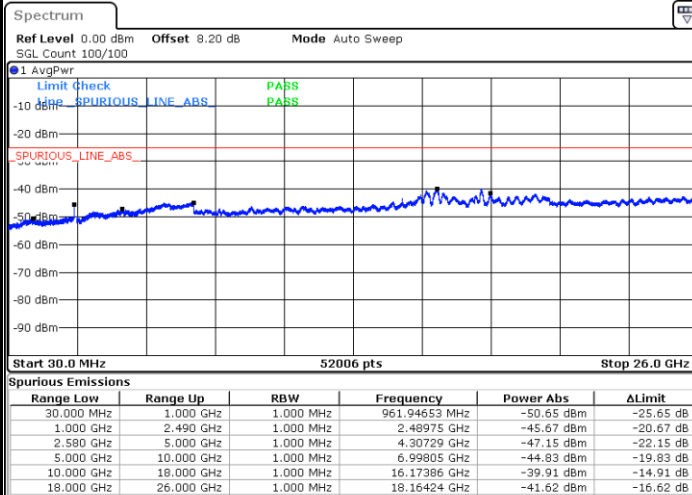


Date: 24.NOV.2025 10:10:47



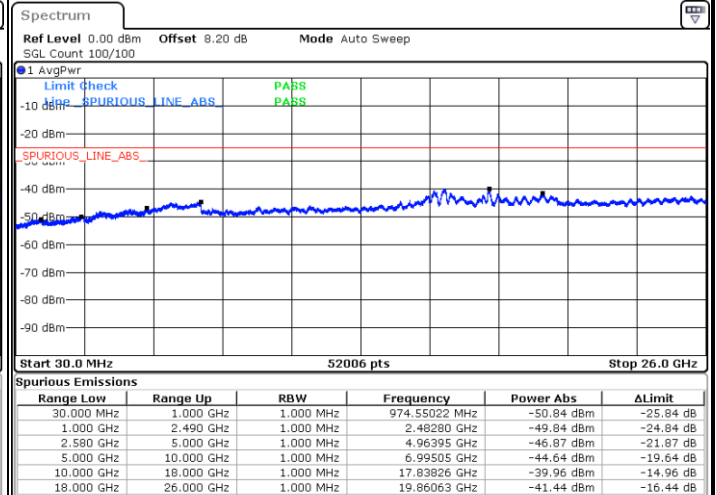
LTE Band 7 / 20MHz

Lowest Channel / QPSK



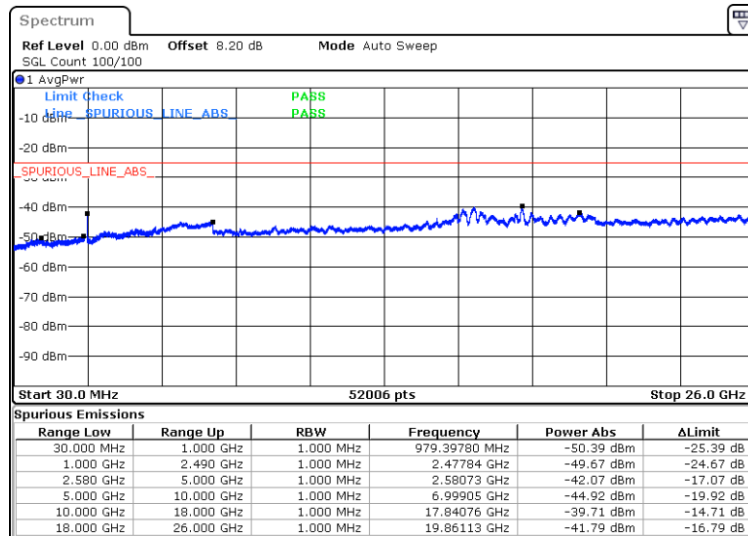
Date: 24.NOV.2025 10:12:25

Middle Channel / QPSK



Date: 24.NOV.2025 10:14:25

Highest Channel / QPSK



Date: 24.NOV.2025 10:16:20

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0024	6.2	Yes	PASS
40	Normal Voltage	0.0063	16	Yes	
30	Normal Voltage	0.0022	5.7	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0063	16	Yes	
0	Normal Voltage	0.0023	5.8	Yes	
-10	Normal Voltage	0.0015	3.7	Yes	
-20	Normal Voltage	0.0002	0.4	Yes	
-30	Normal Voltage	0.0033	8.4	Yes	
20	Maximum Voltage	0.0068	17.3	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0041	10.3	Yes	

Note:

1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

LTE Band 12

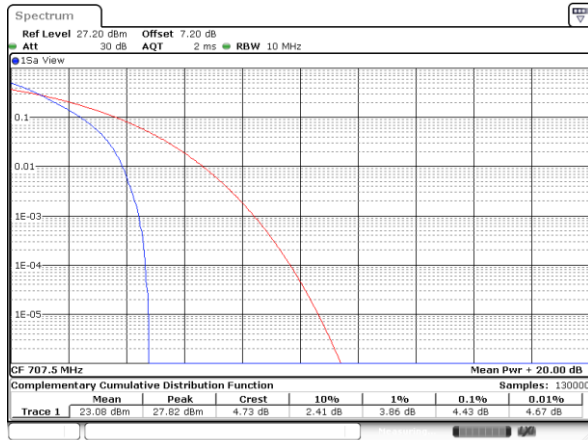
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.43	5.36	6.17	6.52	PASS

Mode	LTE Band 12 / 1.4MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.87	5.83	PASS
Mode	LTE Band 12 / 3MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.52	5.59	PASS
Mode	LTE Band 12 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.55	5.30	PASS

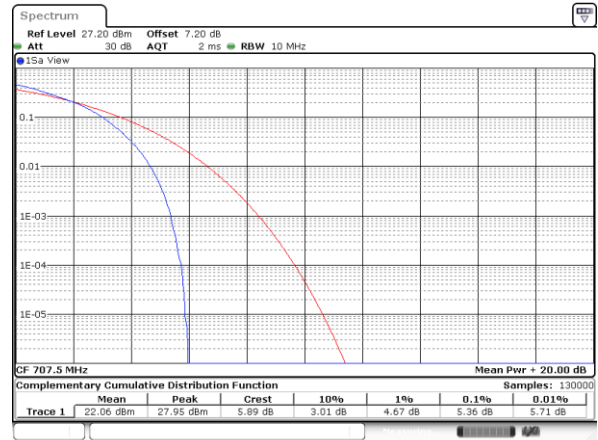
LTE Band 12 / 10MHz / QPSK

Middle Channel / Full RB



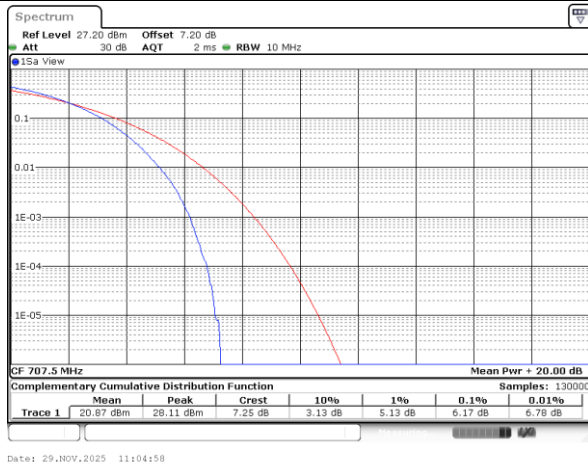
LTE Band 12 / 10MHz / 16QAM

Middle Channel / Full RB



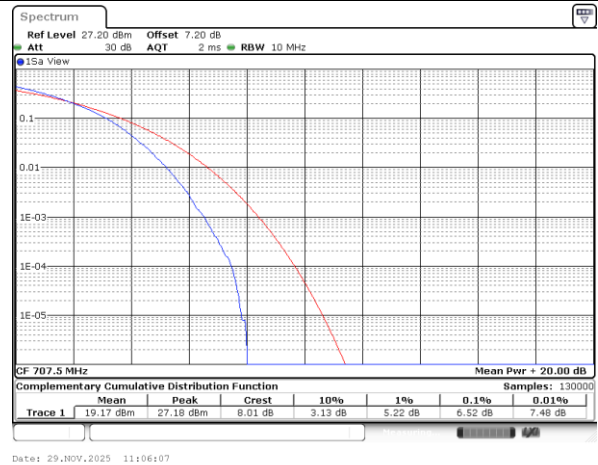
LTE Band 12 / 10MHz / 64QAM

Middle Channel / Full RB



LTE Band 12 / 10MHz / 256QAM

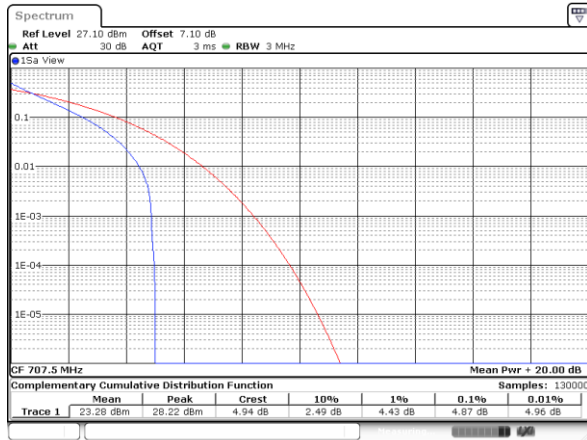
Middle Channel / Full RB





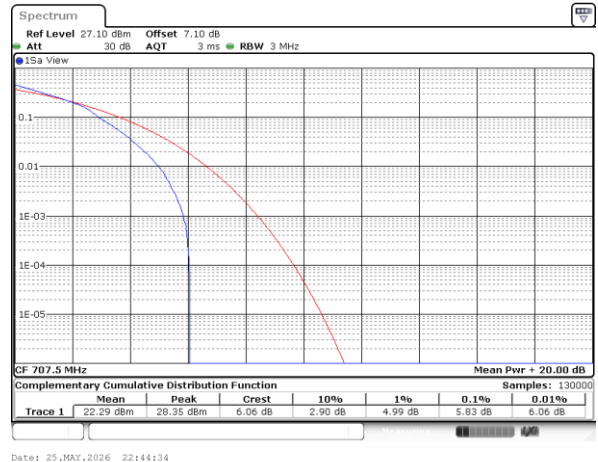
LTE Band 12 / 1.4MHz / QPSK

Middle Channel / Full RB



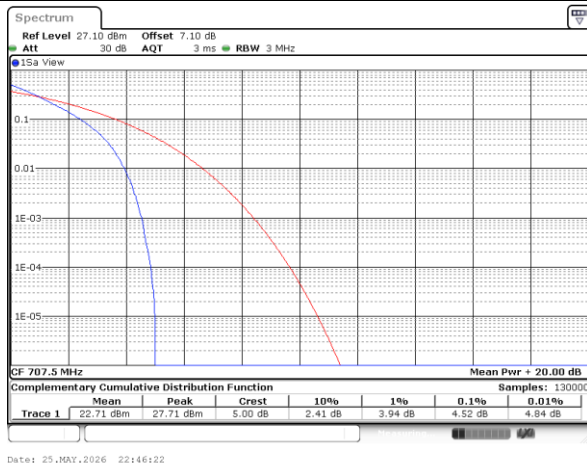
LTE Band 12 / 1.4MHz / 16QAM

Middle Channel / Full RB



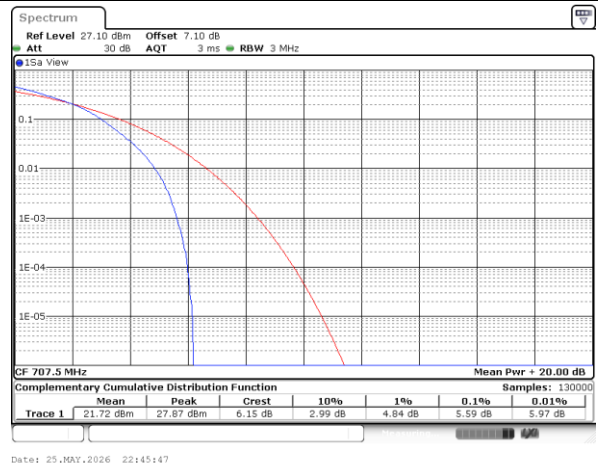
LTE Band 12 / 3MHz / QPSK

Middle Channel / Full RB



LTE Band 12 / 3MHz / 16QAM

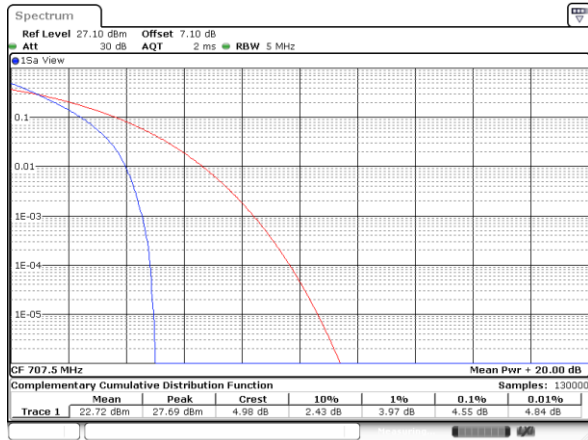
Middle Channel / Full RB





LTE Band 12 / 5MHz / QPSK

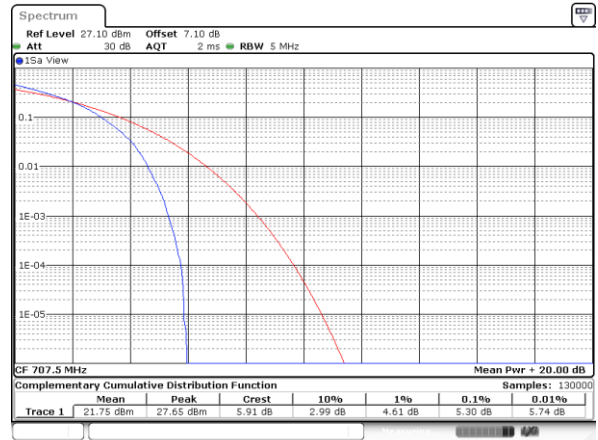
Middle Channel / Full RB



Date: 25.MAY.2026 22:47:37

LTE Band 12 / 5MHz / 16QAM

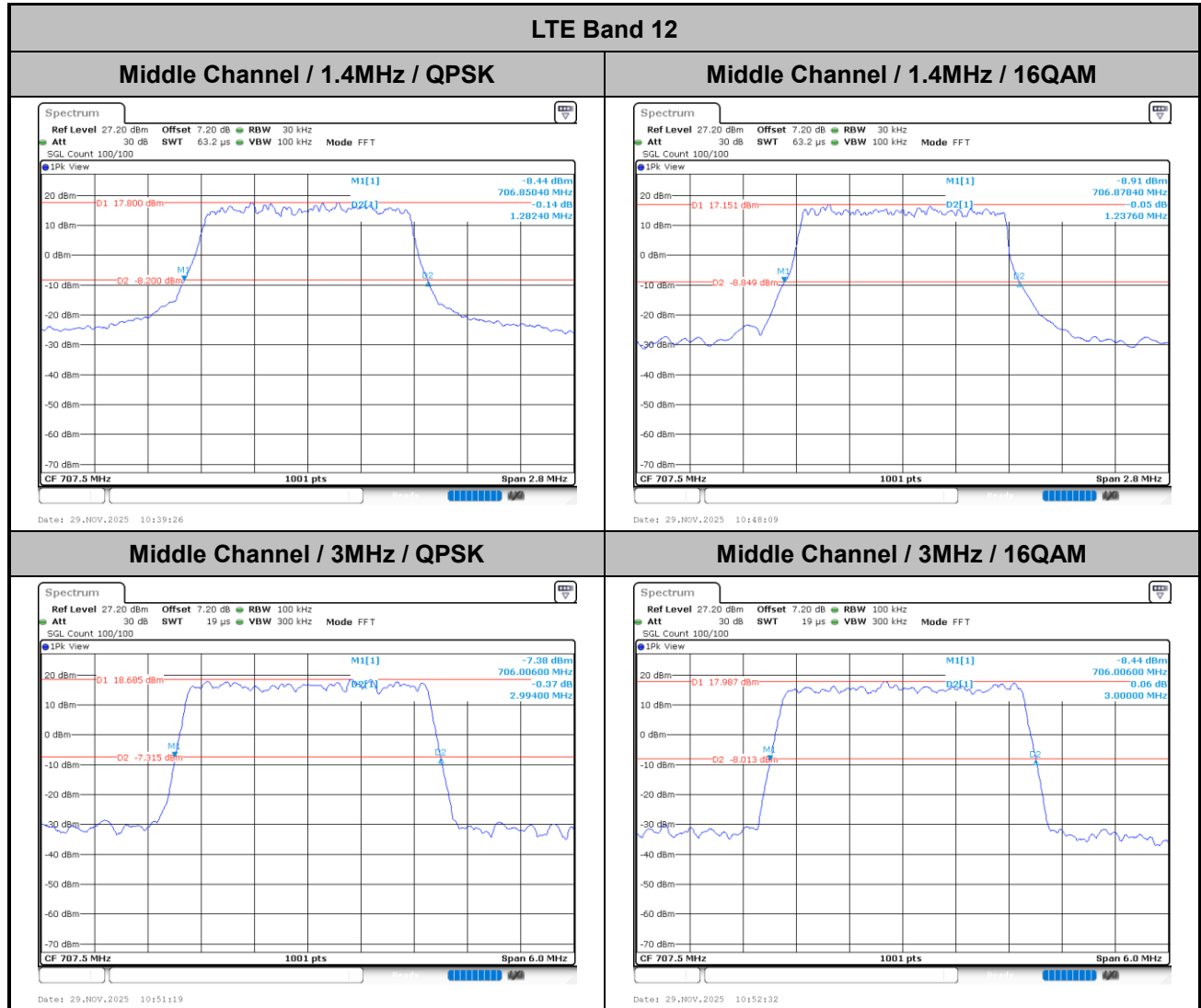
Middle Channel / Full RB



Date: 25.MAY.2026 22:47:01

**26dB Bandwidth**

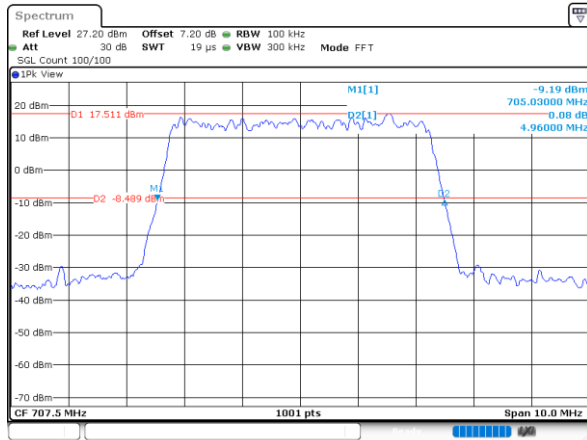
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.23	2.99	3.00	4.96	4.83	9.90	9.64	-	-	-	-



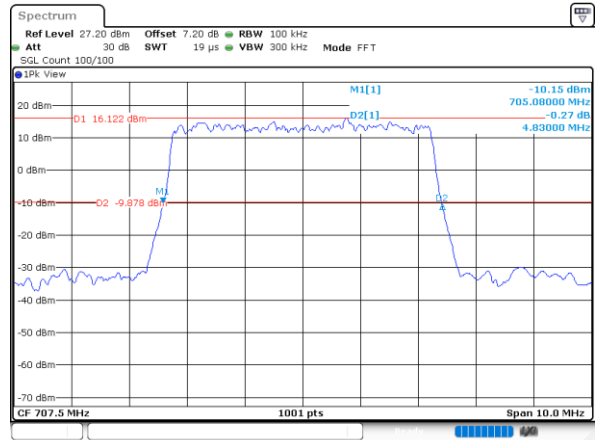


LTE Band 12

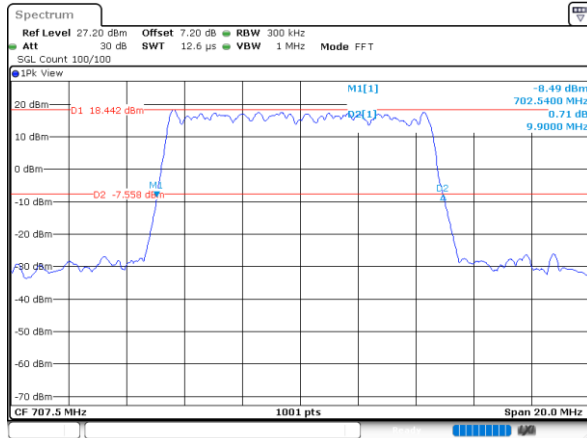
Middle Channel / 5MHz / QPSK



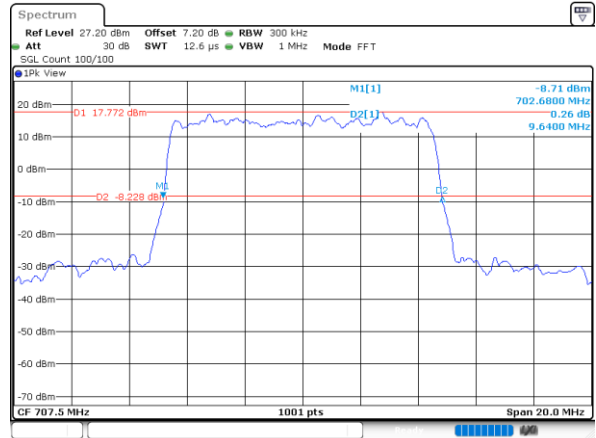
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



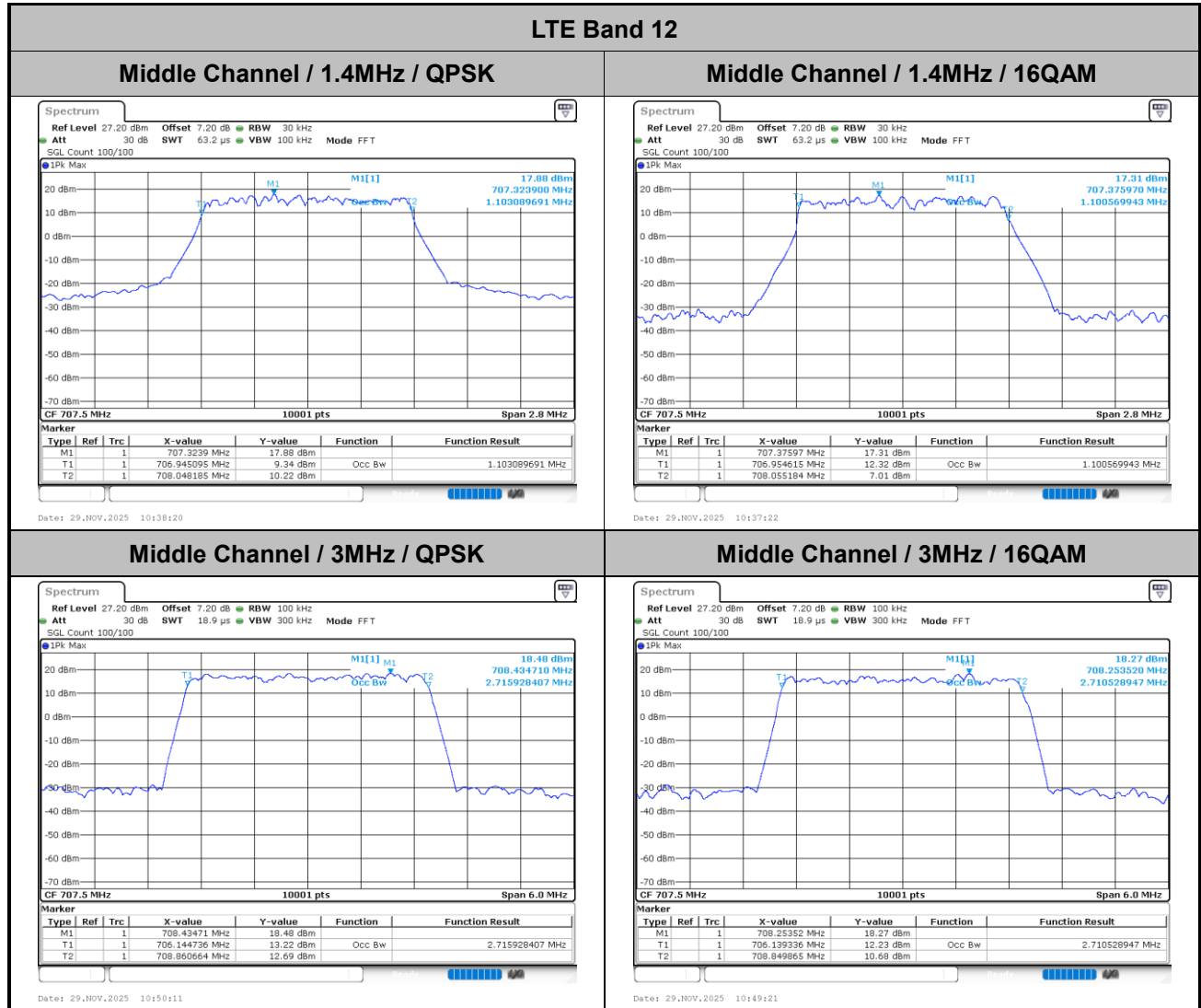
Middle Channel / 10MHz / 16QAM





Occupied Bandwidth

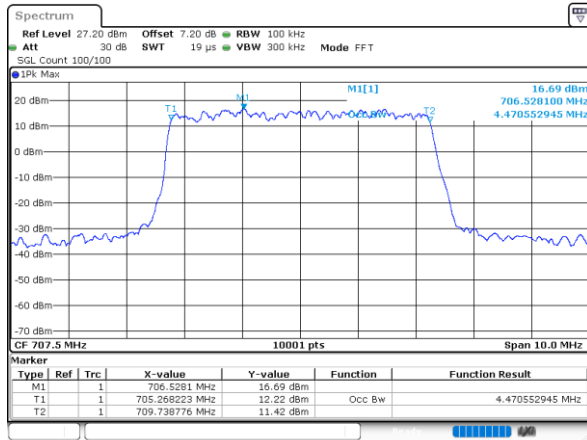
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.10	1.10	2.71	2.71	4.47	4.49	9.02	9.00	-	-	-	-



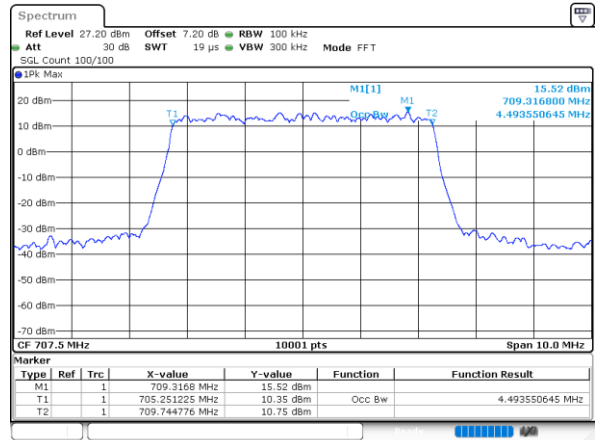


LTE Band 12

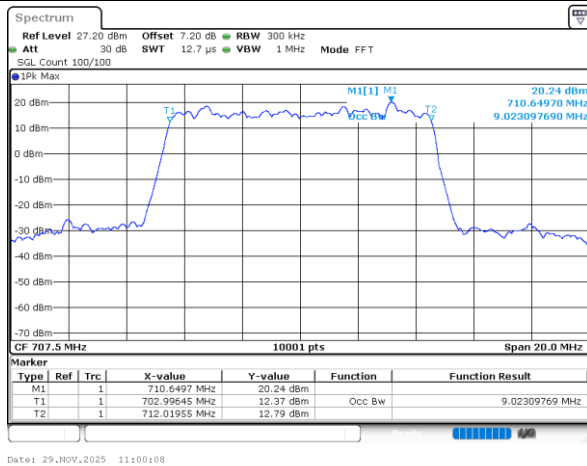
Middle Channel / 5MHz / QPSK



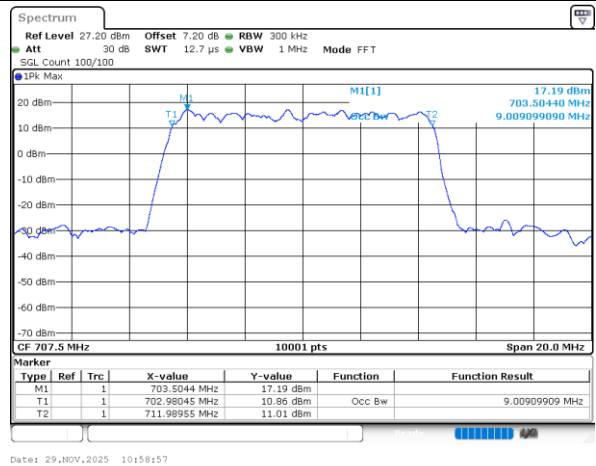
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

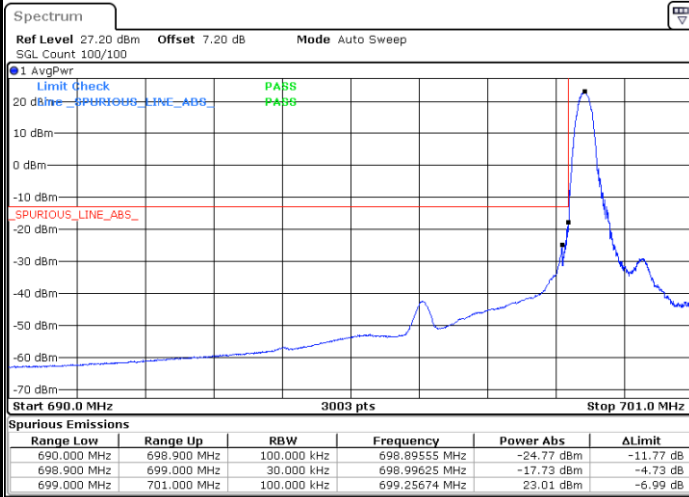




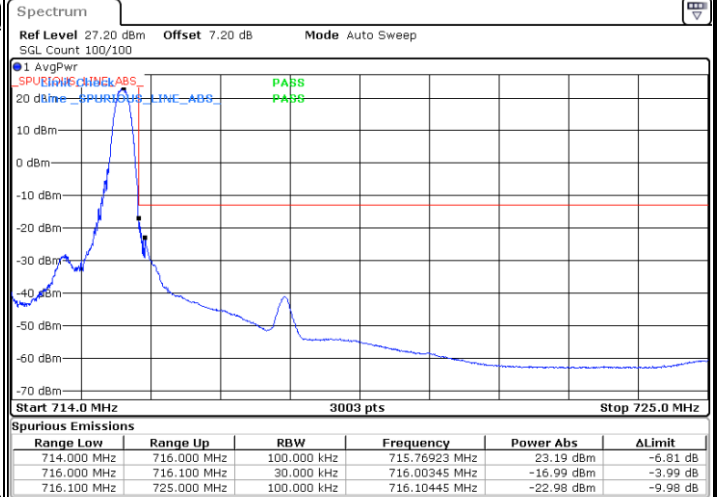
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

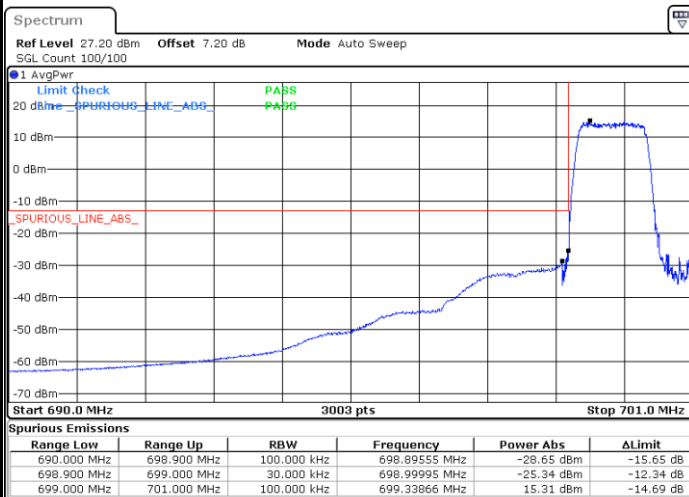
Lowest Band Edge / 1RB



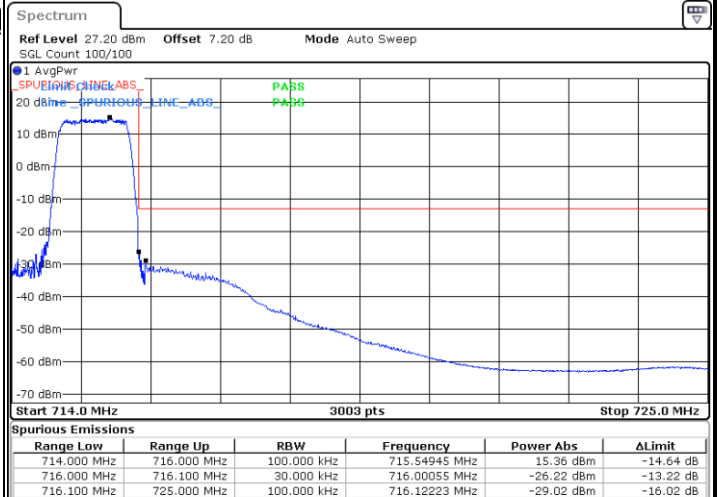
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



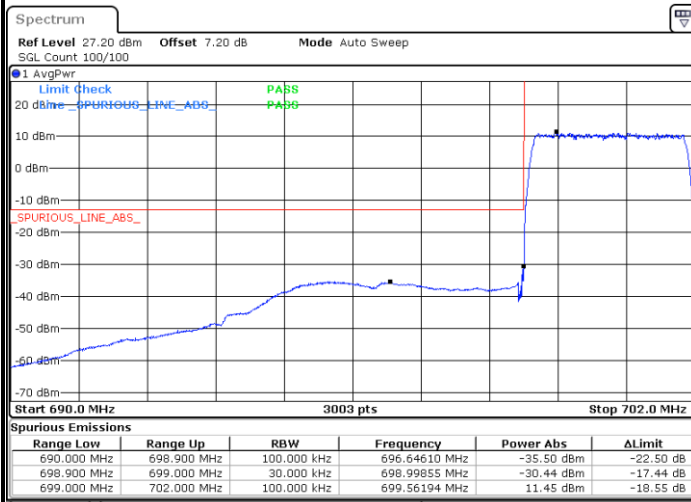
Highest Band Edge / Full RB



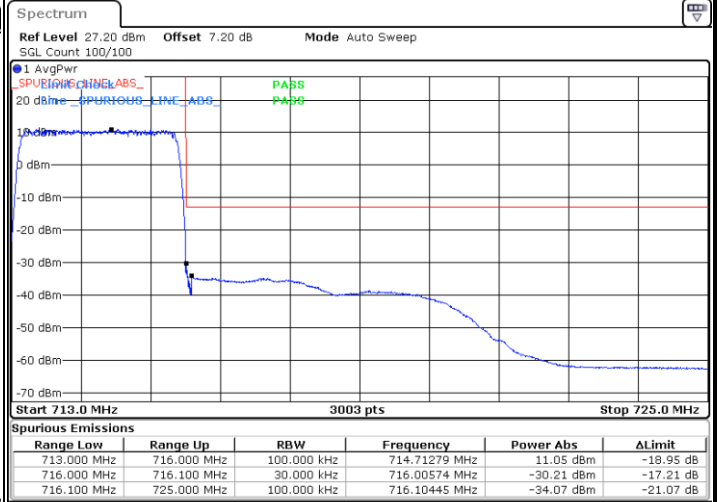


LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB

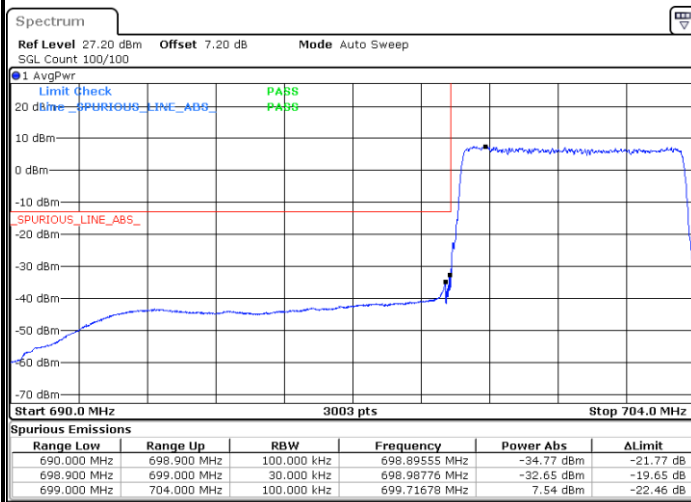


Highest Band Edge / Full RB

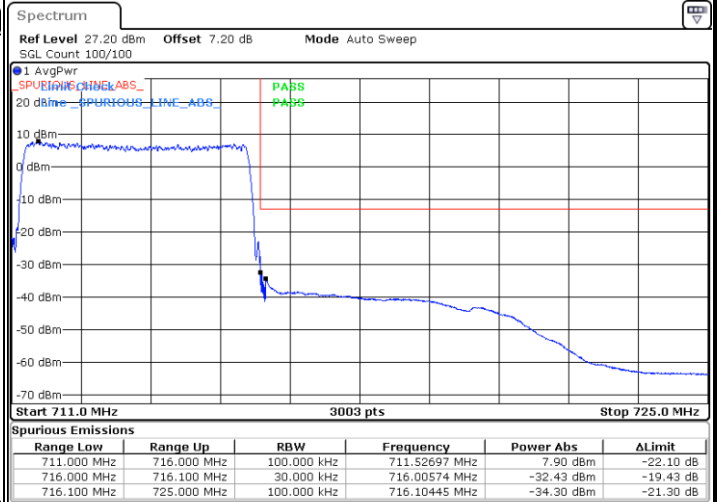


LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

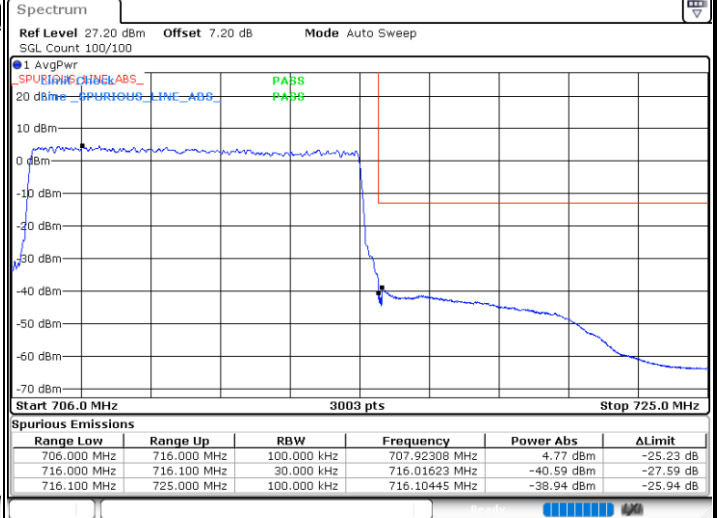
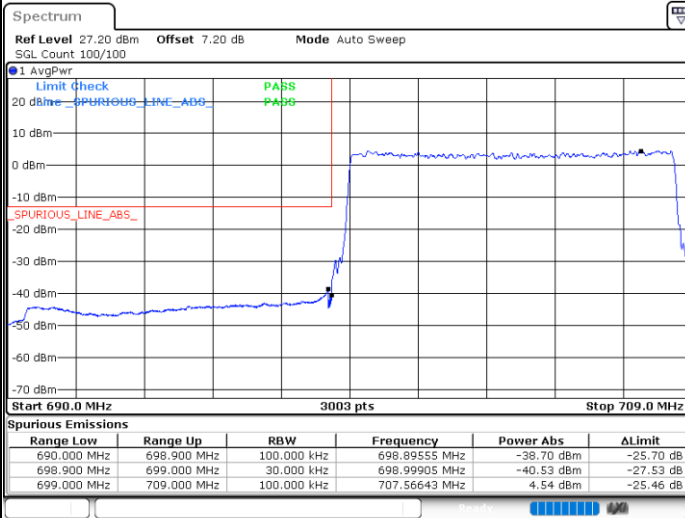




LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

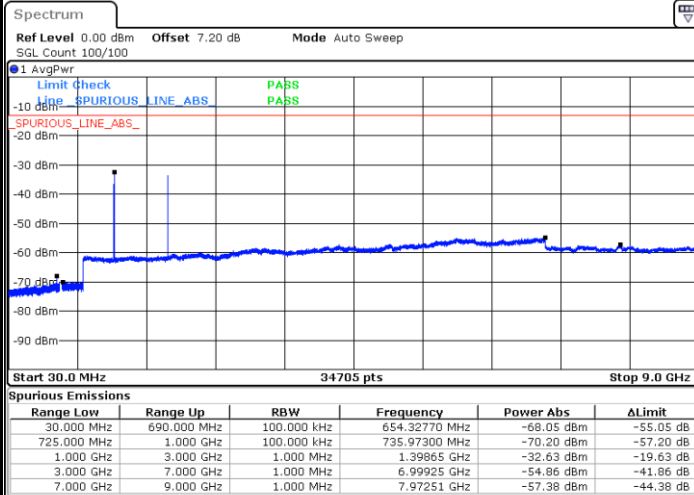




Conducted Spurious Emission

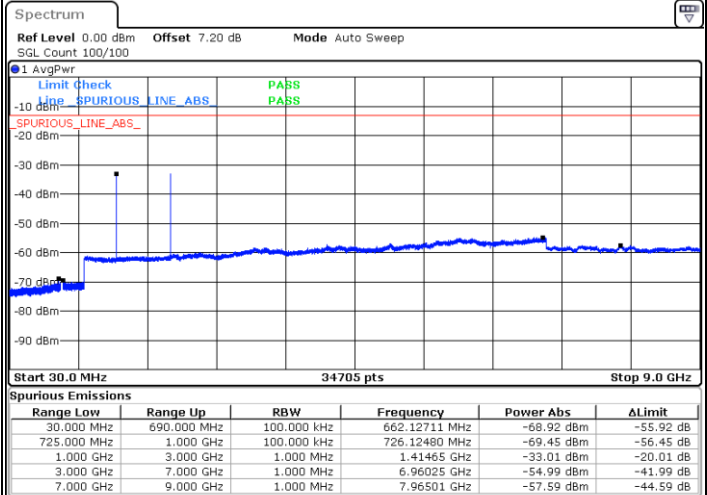
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



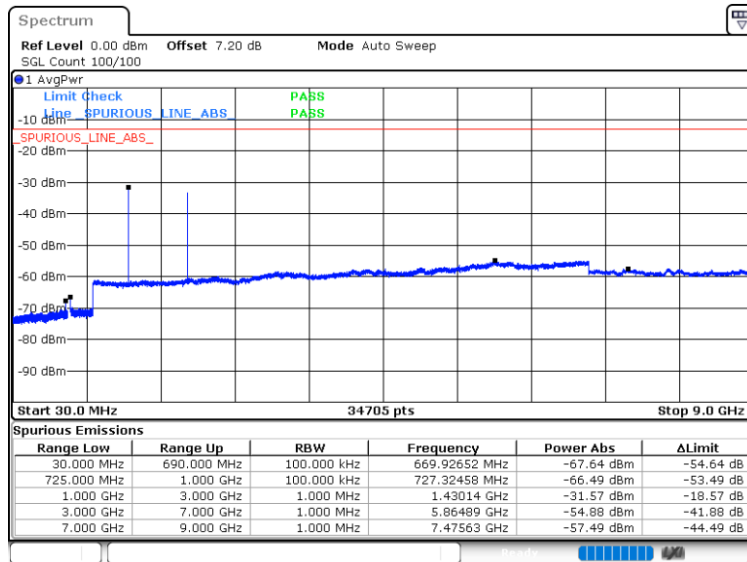
Date: 29.NOV.2025 11:12:15

Middle Channel / QPSK



Date: 29.NOV.2025 11:15:34

Highest Channel / QPSK

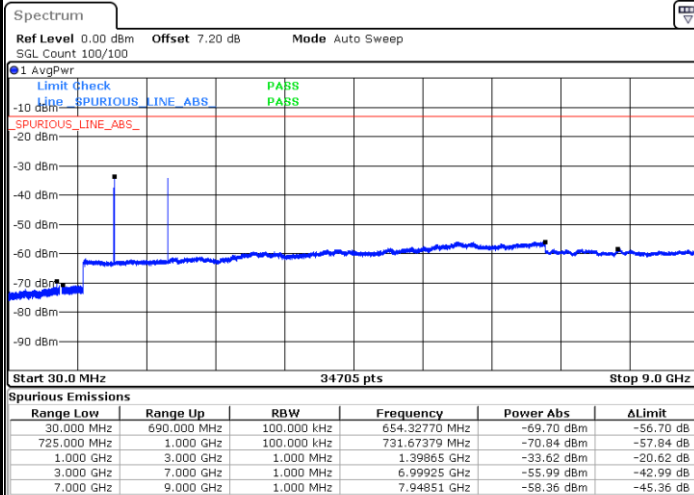


Date: 29.NOV.2025 11:22:37



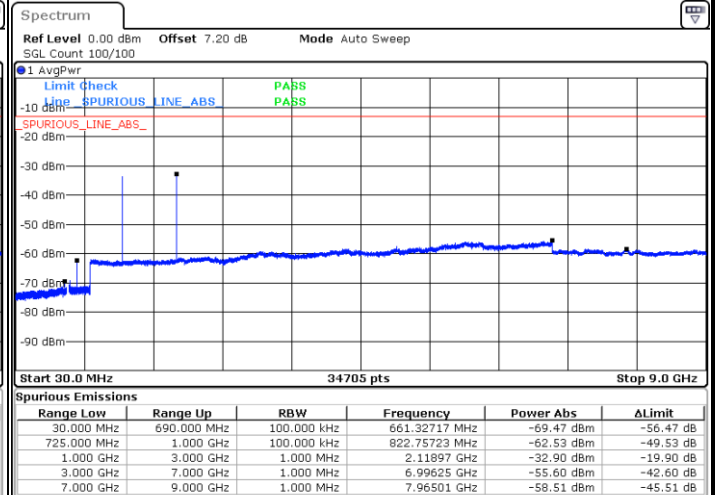
LTE Band 12 / 3MHz

Lowest Channel / QPSK



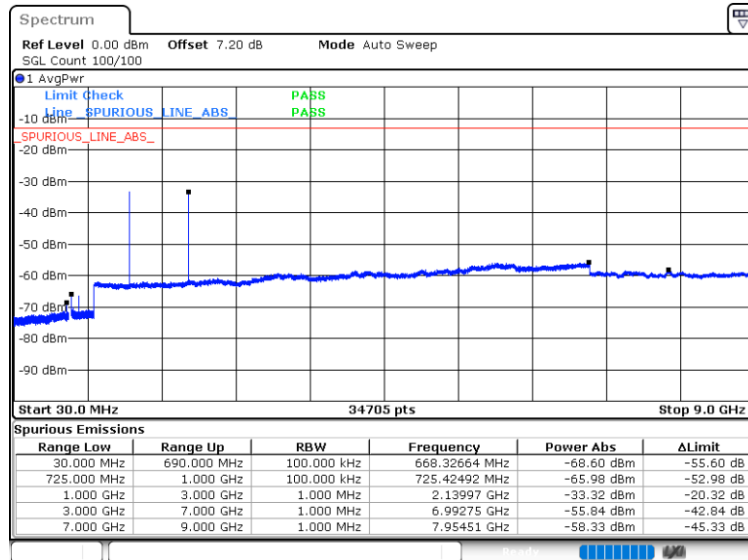
Date: 1.DEC.2025 10:01:45

Middle Channel / QPSK



Date: 1.DEC.2025 10:04:21

Highest Channel / QPSK

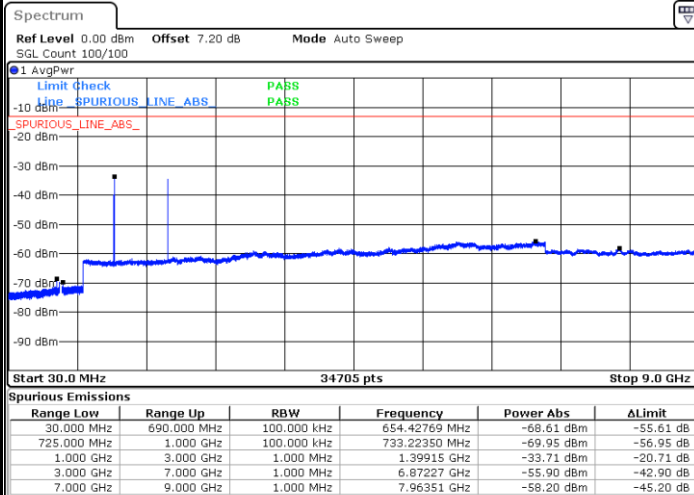


Date: 1.DEC.2025 10:07:32



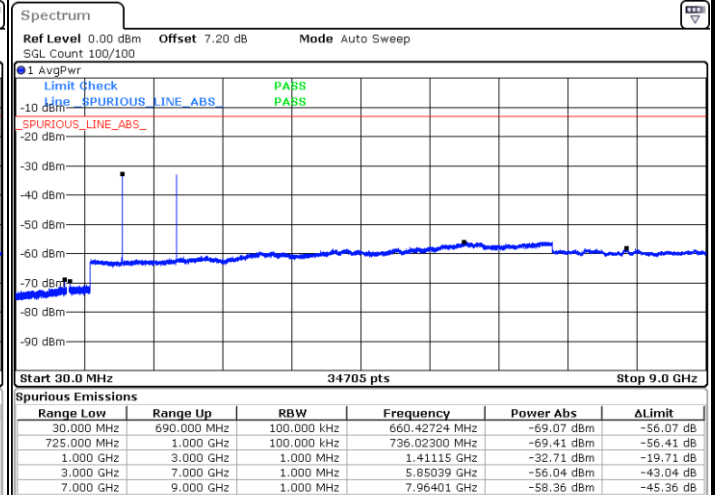
LTE Band 12 / 5MHz

Lowest Channel / QPSK



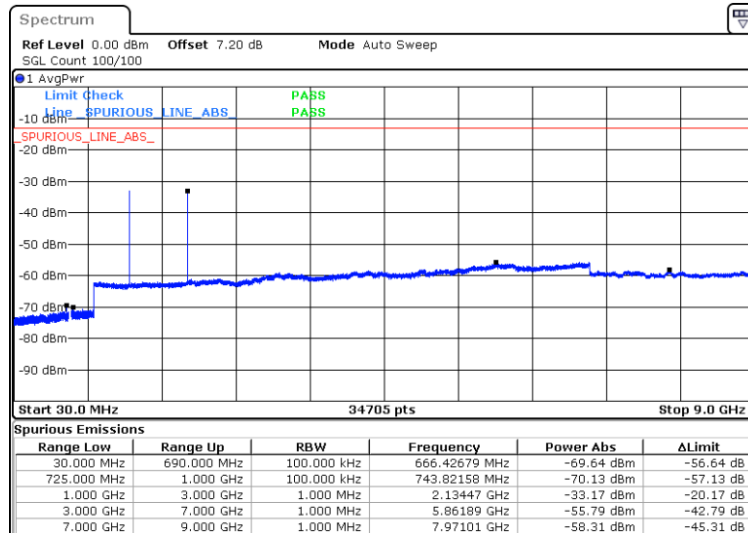
Date: 1.DEC.2025 10:17:01

Middle Channel / QPSK



Date: 1.DEC.2025 10:20:06

Highest Channel / QPSK

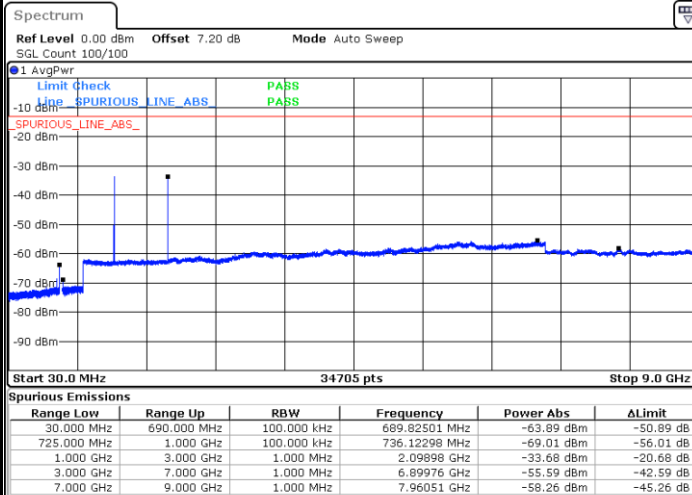


Date: 1.DEC.2025 10:22:43



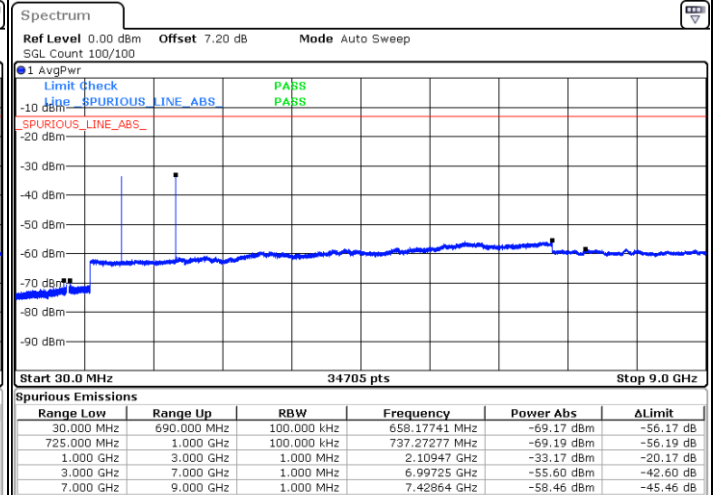
LTE Band 12 / 10MHz

Lowest Channel / QPSK



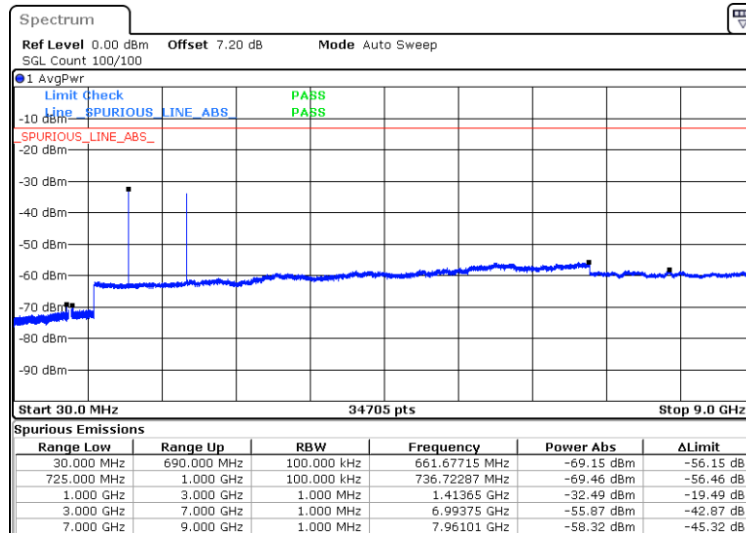
Date: 1.DEC.2025 10:24:21

Middle Channel / QPSK



Date: 1.DEC.2025 10:36:58

Highest Channel / QPSK



Date: 1.DEC.2025 10:39:35

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel / BandWidth 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0003	0.2	Yes	PASS
40	Normal Voltage	0.0047	3.3	Yes	
30	Normal Voltage	0.0109	7.7	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0048	3.4	Yes	
0	Normal Voltage	0.0062	-4.4	Yes	
-10	Normal Voltage	0.0137	-9.7	Yes	
-20	Normal Voltage	0.0141	-10	Yes	
-30	Normal Voltage	0.0093	-6.6	Yes	
20	Maximum Voltage	0.0006	0.4	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0006	-0.4	Yes	

Note:

1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.



LTE Band 13

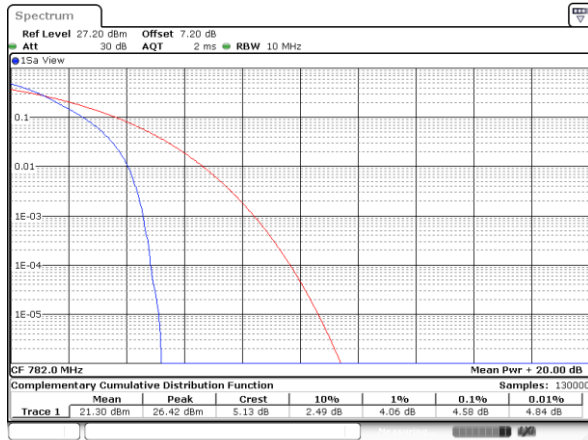
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.28	5.83	6.14	PASS

Mode	LTE Band 13 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.17	5.19	PASS

LTE Band 13 / 10MHz / QPSK

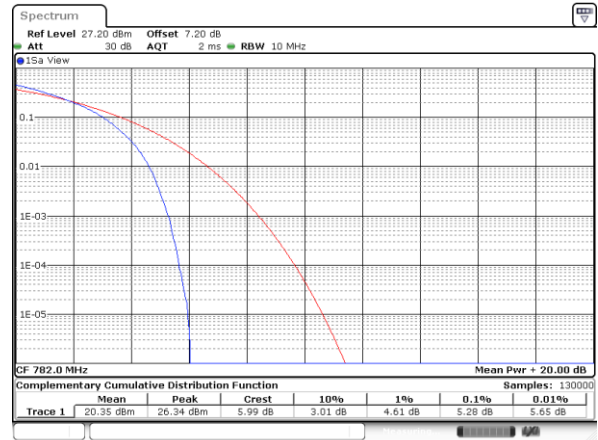
Middle Channel / Full RB



Date: 1.DEC.2025 11:47:05

LTE Band 13 / 10MHz / 16QAM

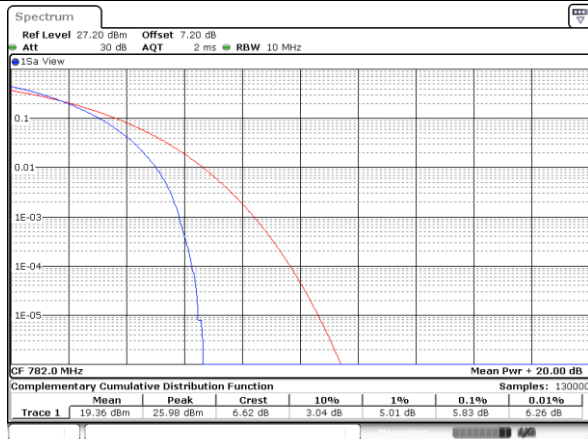
Middle Channel / Full RB



Date: 1.DEC.2025 11:47:29

LTE Band 13 / 10MHz / 64QAM

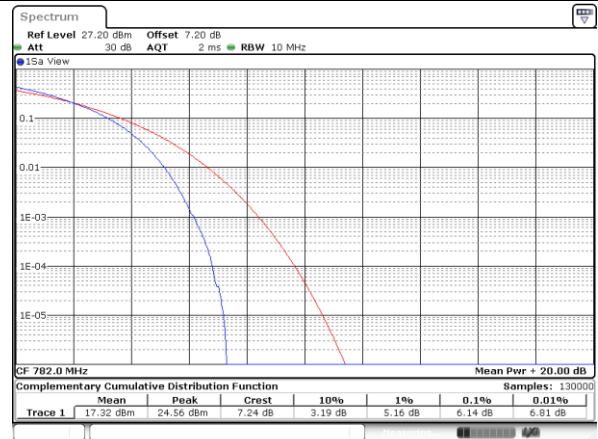
Middle Channel / Full RB



Date: 1.DEC.2025 11:48:12

LTE Band 13 / 10MHz / 256QAM

Middle Channel / Full RB

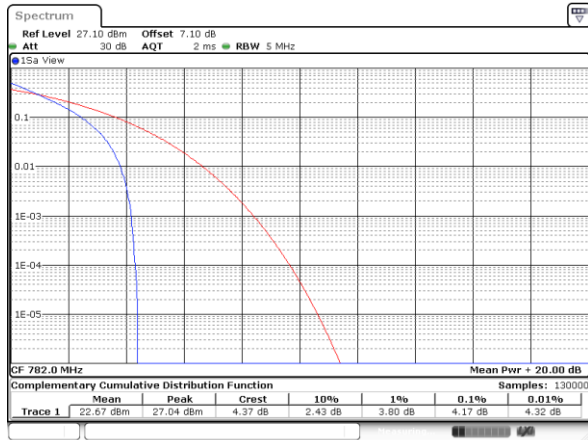


Date: 1.DEC.2025 11:48:55



LTE Band 13 / 5MHz / QPSK

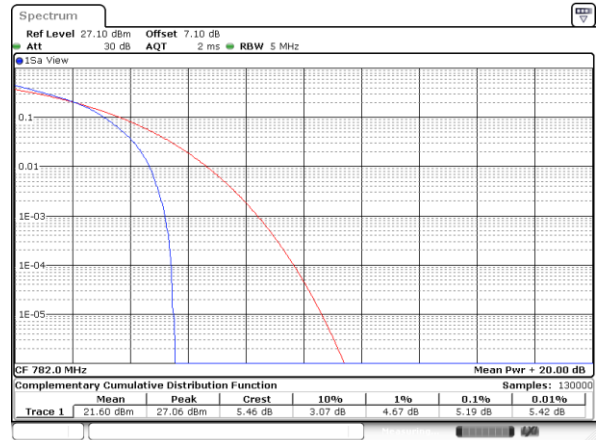
Middle Channel / Full RB



Date: 25.MAY.2026 22:48:50

LTE Band 13 / 5MHz / 16QAM

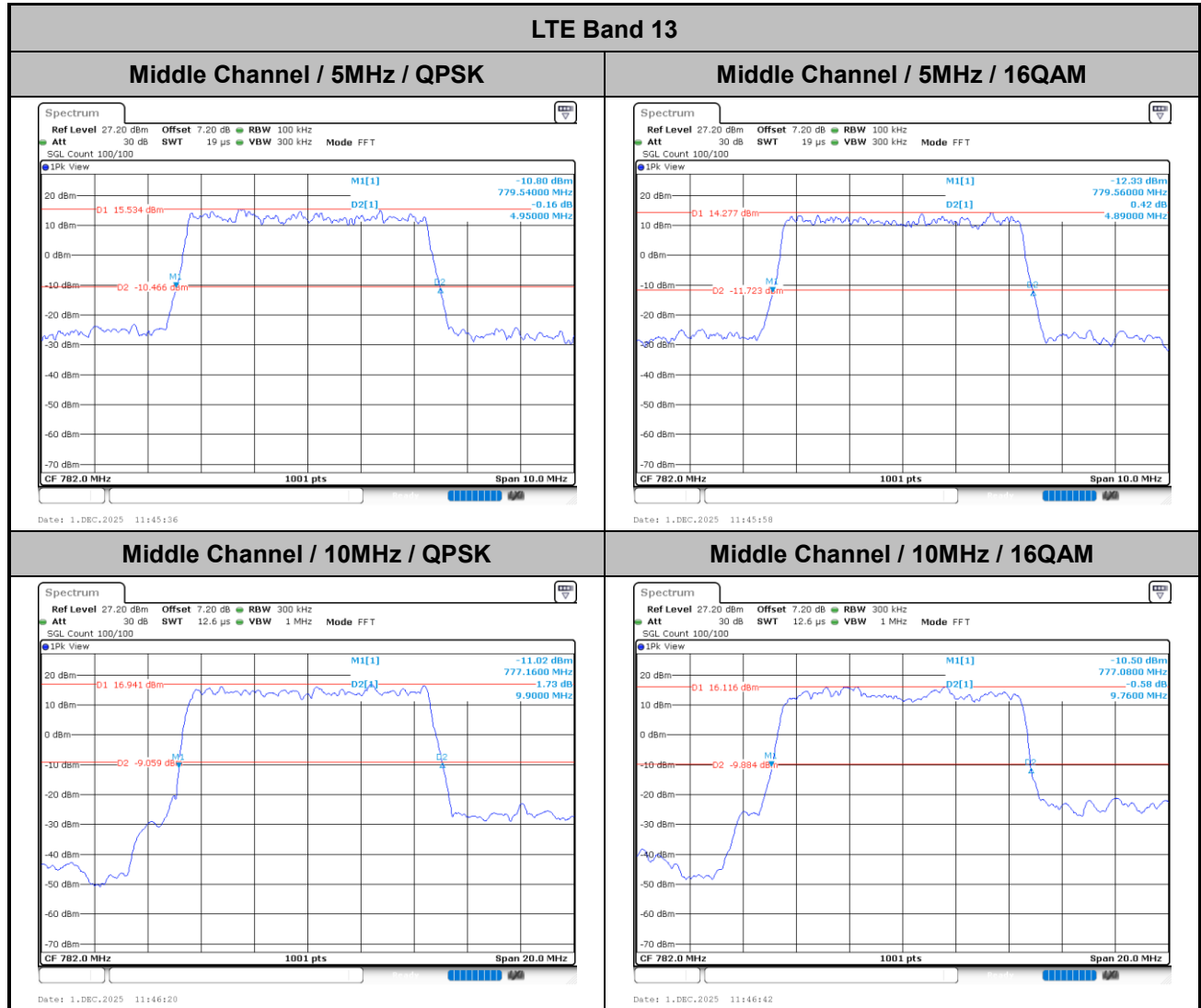
Middle Channel / Full RB



Date: 25.MAY.2026 22:48:14

**26dB Bandwidth**

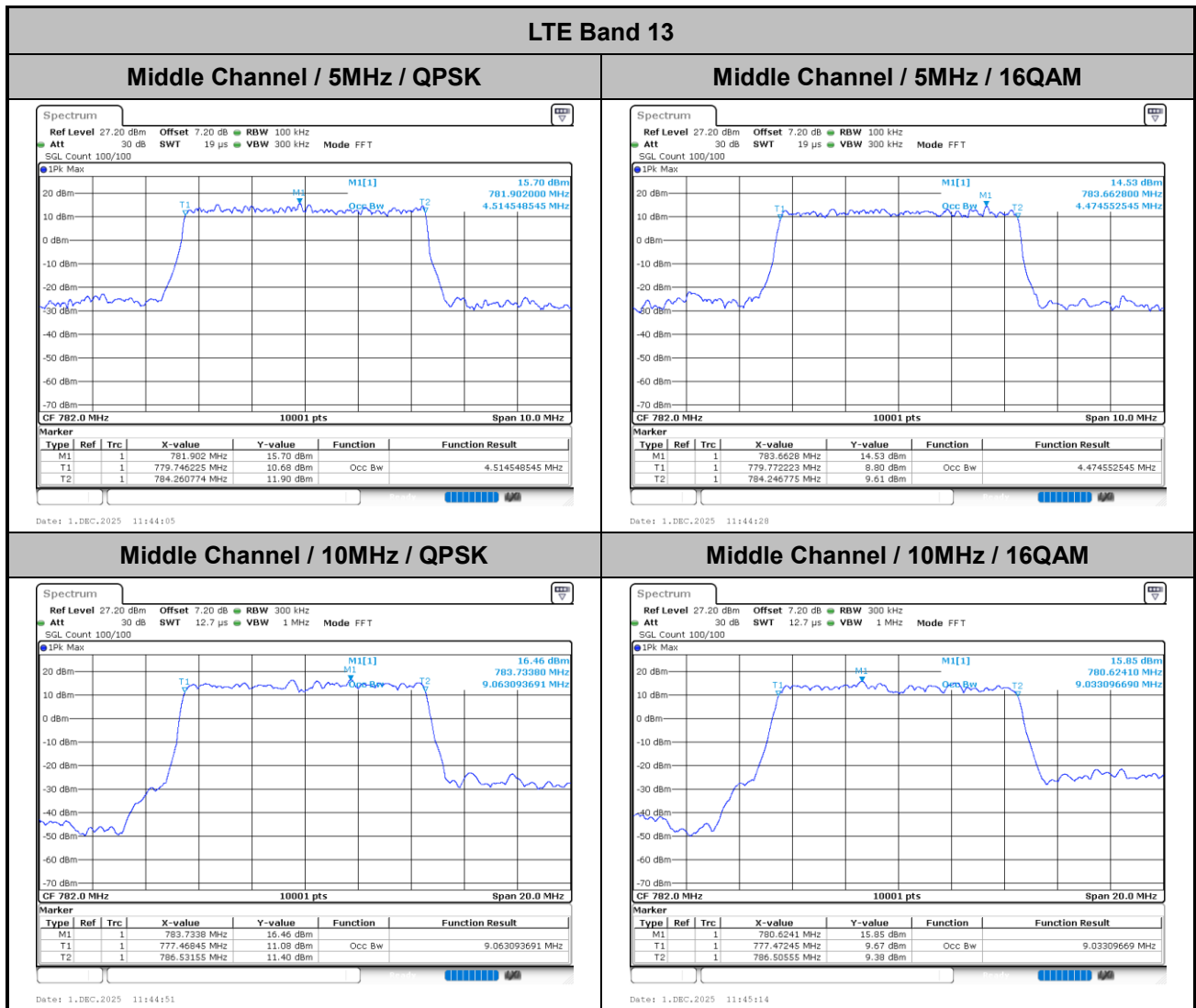
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	4.89	9.90	9.76	-	-	-	-

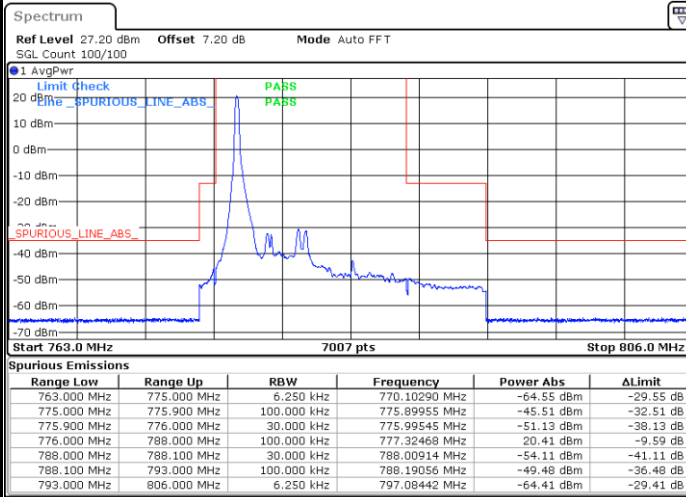
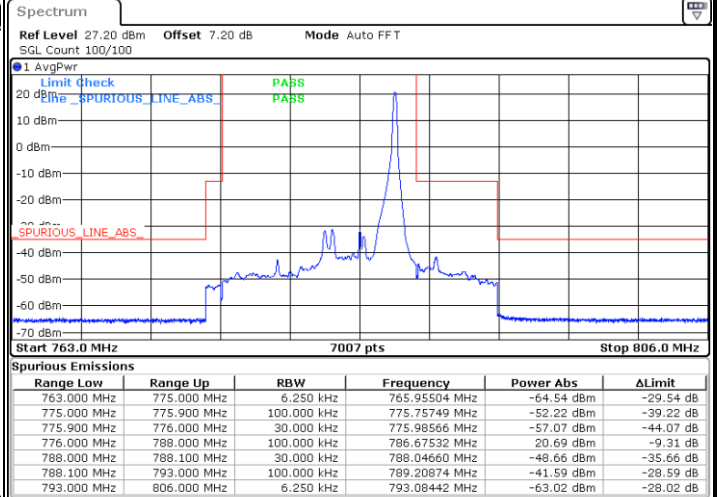
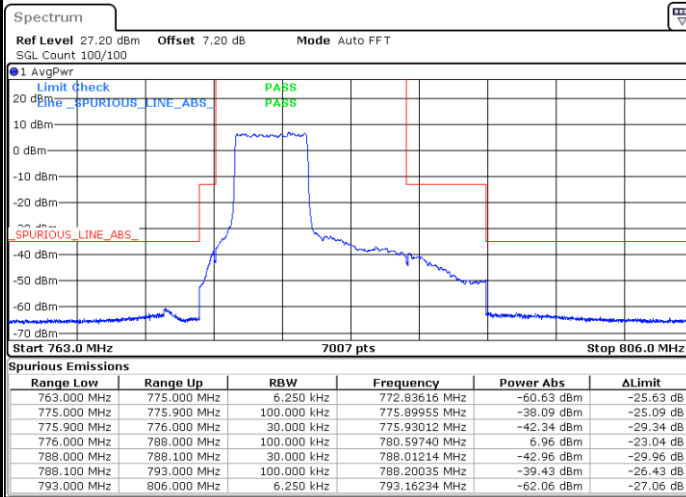
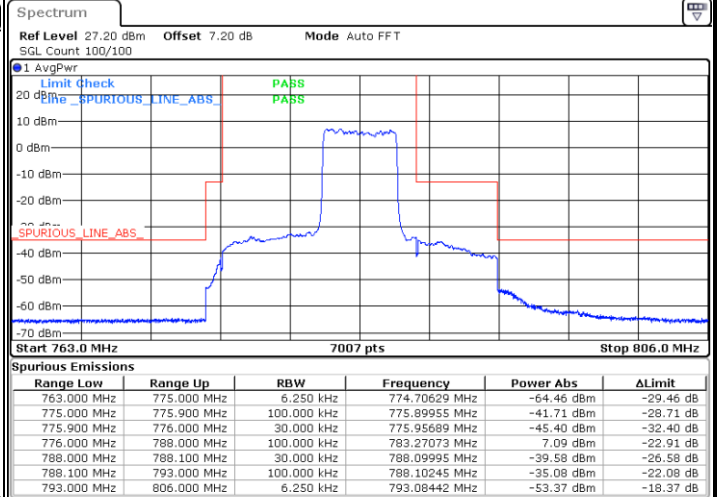


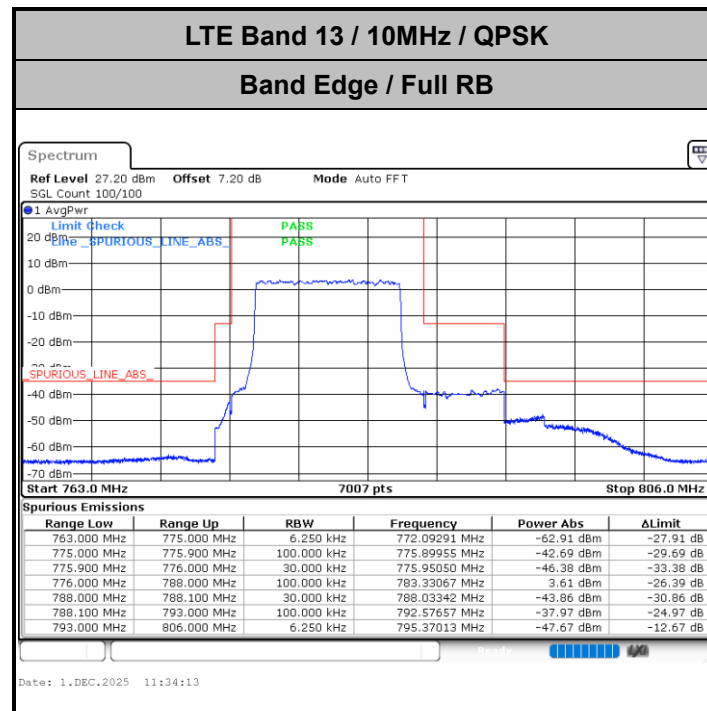


Occupied Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.51	4.47	9.06	9.03	-	-	-	-



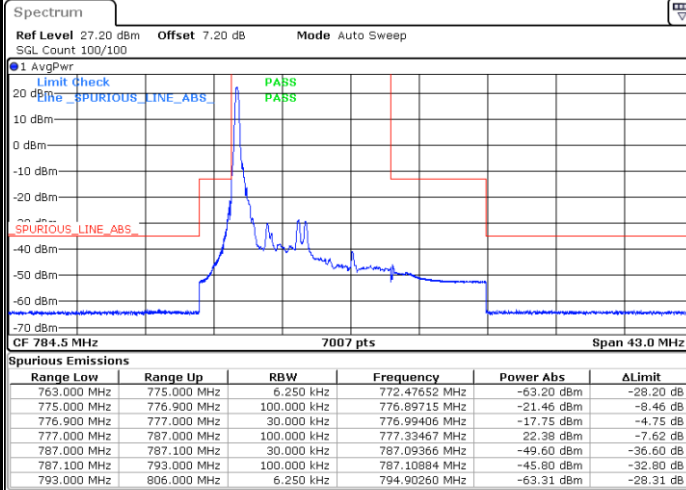
**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**





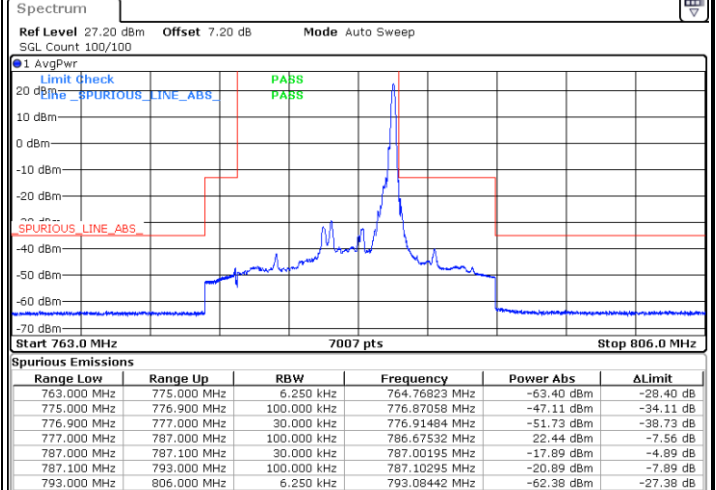
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



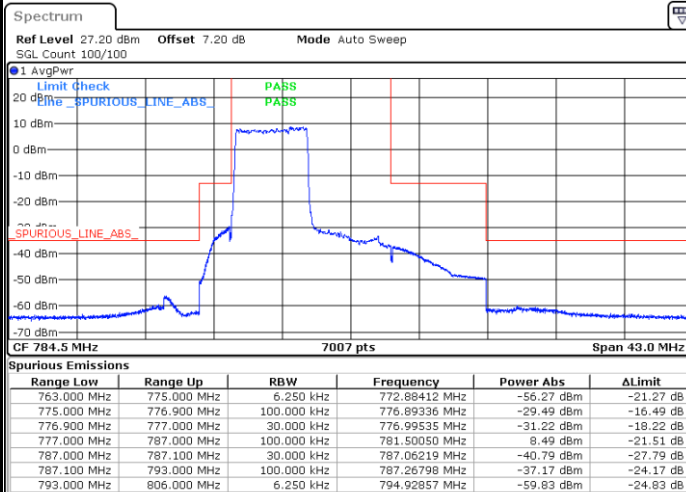
Date: 2.DEC.2025 11:12:43

Highest Band Edge / 1 RB



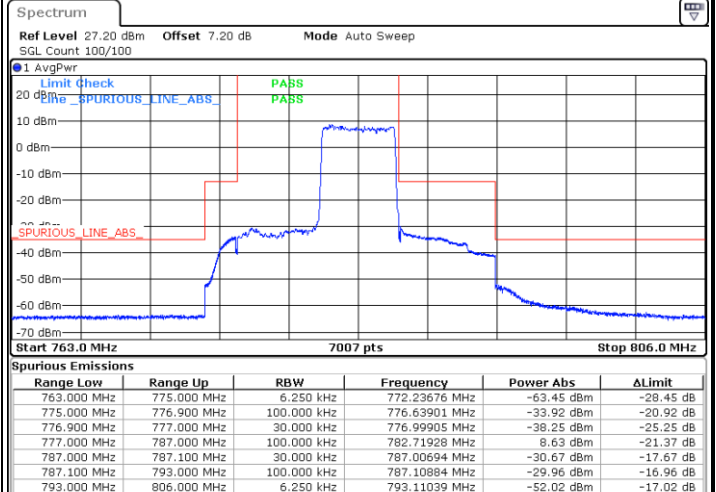
Date: 2.DEC.2025 11:23:52

Lowest Band Edge / Full RB



Date: 2.DEC.2025 11:11:36

Highest Band Edge / Full RB



Date: 2.DEC.2025 11:22:45