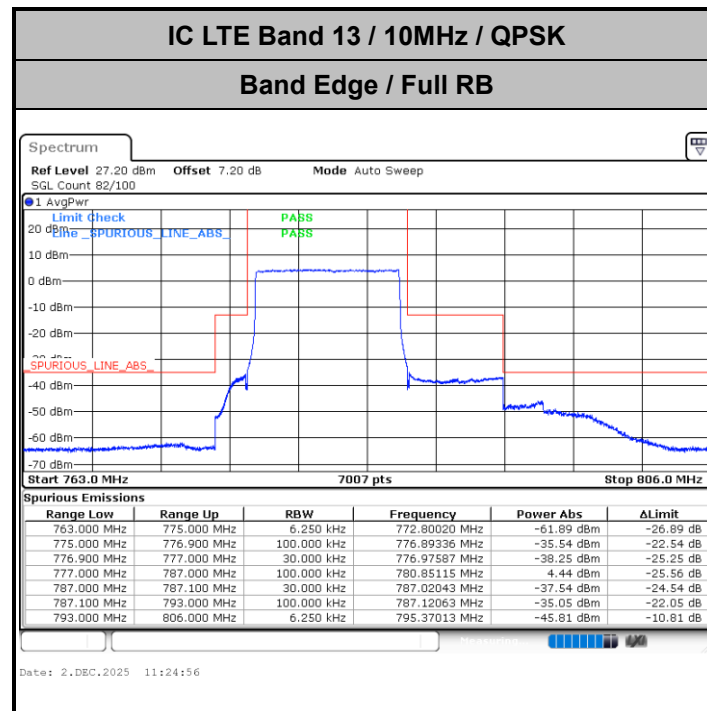


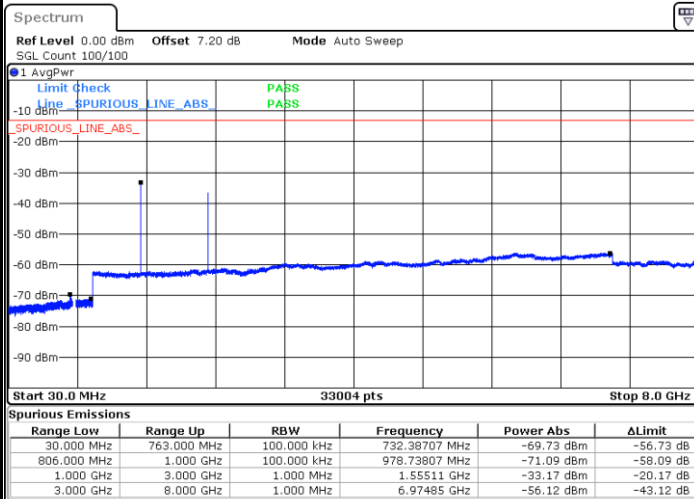




Conducted Spurious Emission

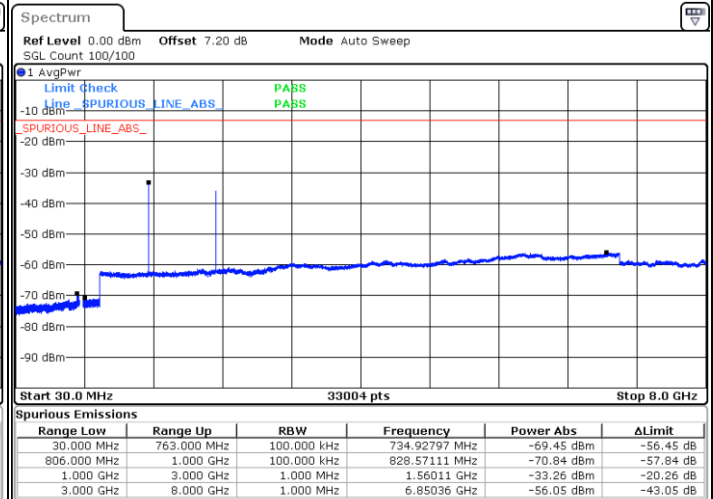
LTE Band 13 / 5MHz

Lowest Channel / QPSK



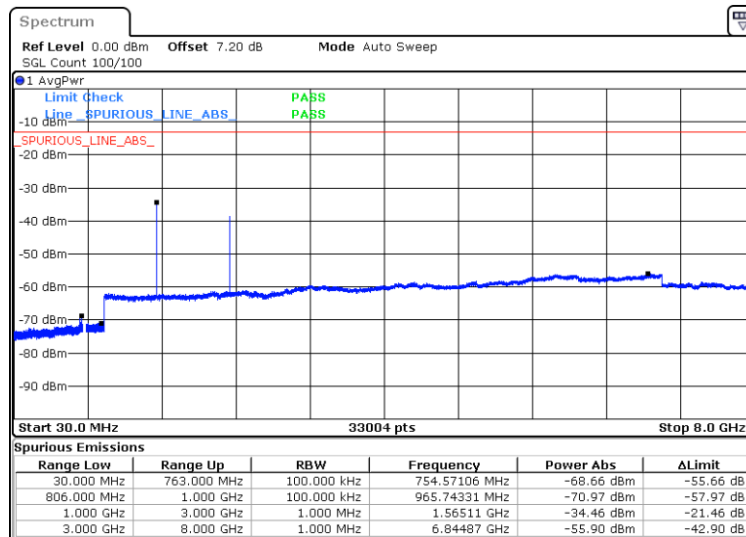
Date: 1.DEC.2025 11:35:16

Middle Channel / QPSK



Date: 1.DEC.2025 11:38:04

Highest Channel / QPSK

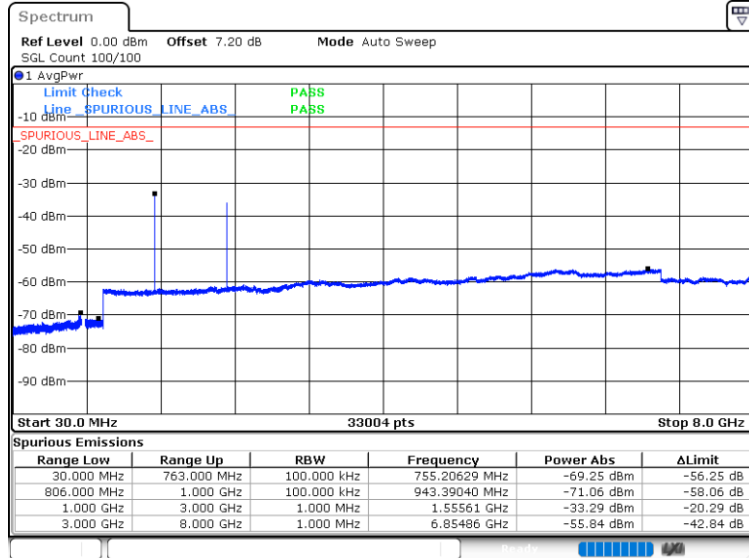


Date: 1.DEC.2025 11:40:59



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 1.DEC.2025 11:43:40

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel / BandWidth 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0074	-5.8	Yes	PASS
40	Normal Voltage	0.0119	-9.3	Yes	
30	Normal Voltage	0.0008	-0.6	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0056	4.4	Yes	
0	Normal Voltage	0.0127	-9.9	Yes	
-10	Normal Voltage	0.0010	-0.8	Yes	
-20	Normal Voltage	0.0138	-10.8	Yes	
-30	Normal Voltage	0.0119	-9.3	Yes	
20	Maximum Voltage	0.0049	-3.8	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0004	-0.3	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 17

Peak-to-Average Ratio

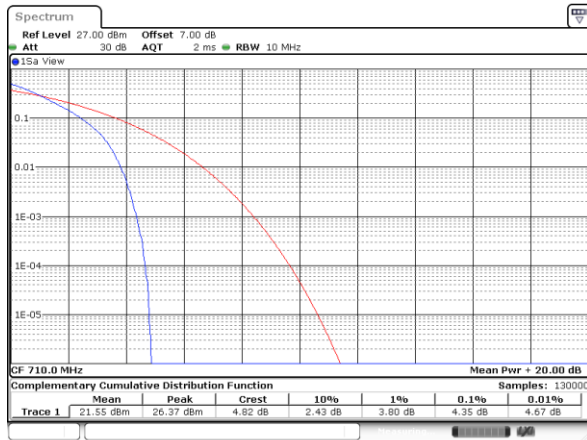
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.35	5.25	5.83	6.46	PASS

Mode	LTE Band 17 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.20	5.16	PASS



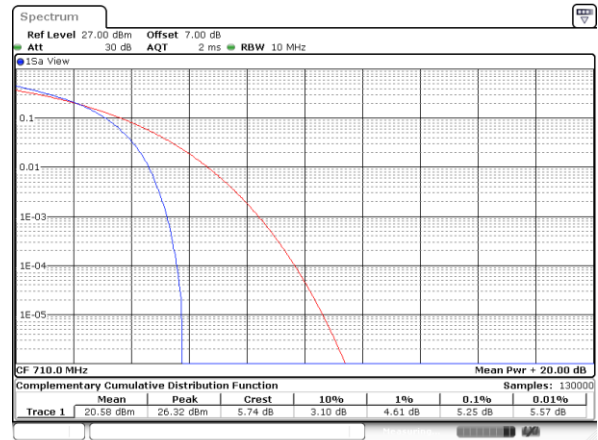
LTE Band 17 / 10MHz / QPSK

Middle Channel / Full RB



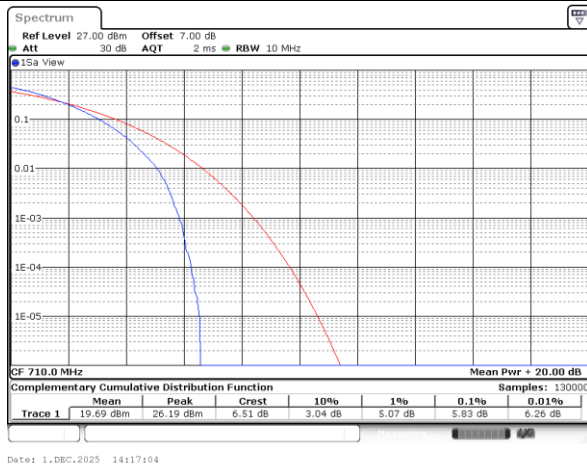
LTE Band 17 / 10MHz / 16QAM

Middle Channel / Full RB



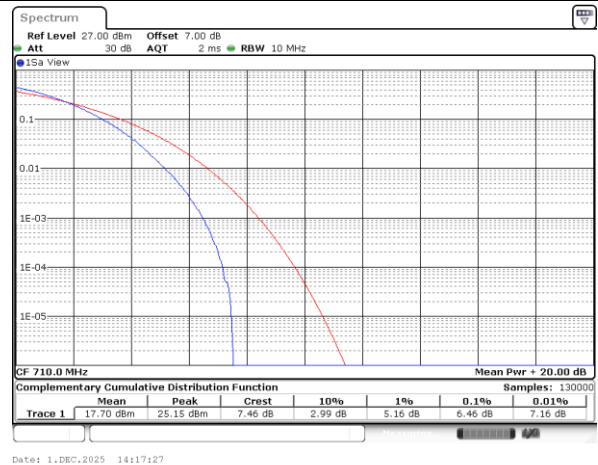
LTE Band 17 / 10MHz / 64QAM

Middle Channel / Full RB



LTE Band 17 / 10MHz / 256QAM

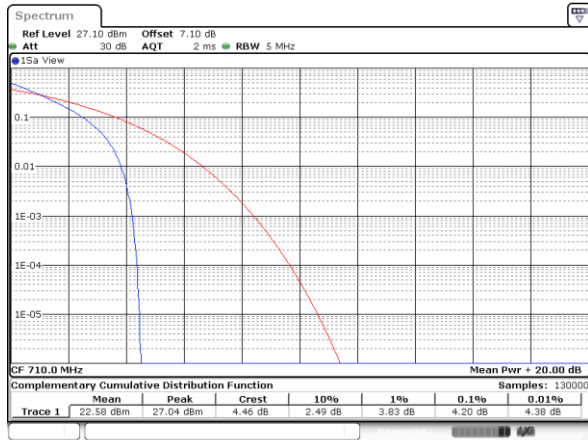
Middle Channel / Full RB





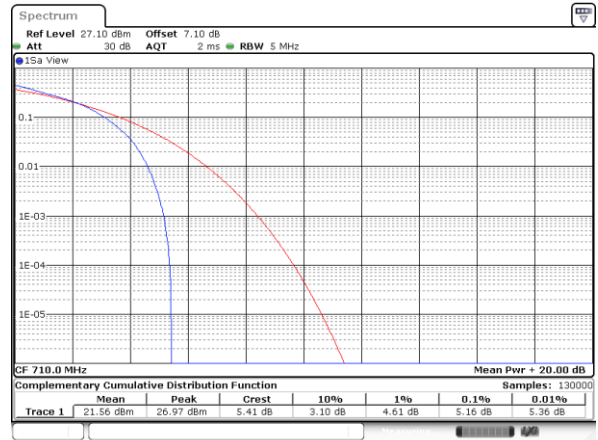
LTE Band 17 / 5MHz / QPSK

Middle Channel / Full RB



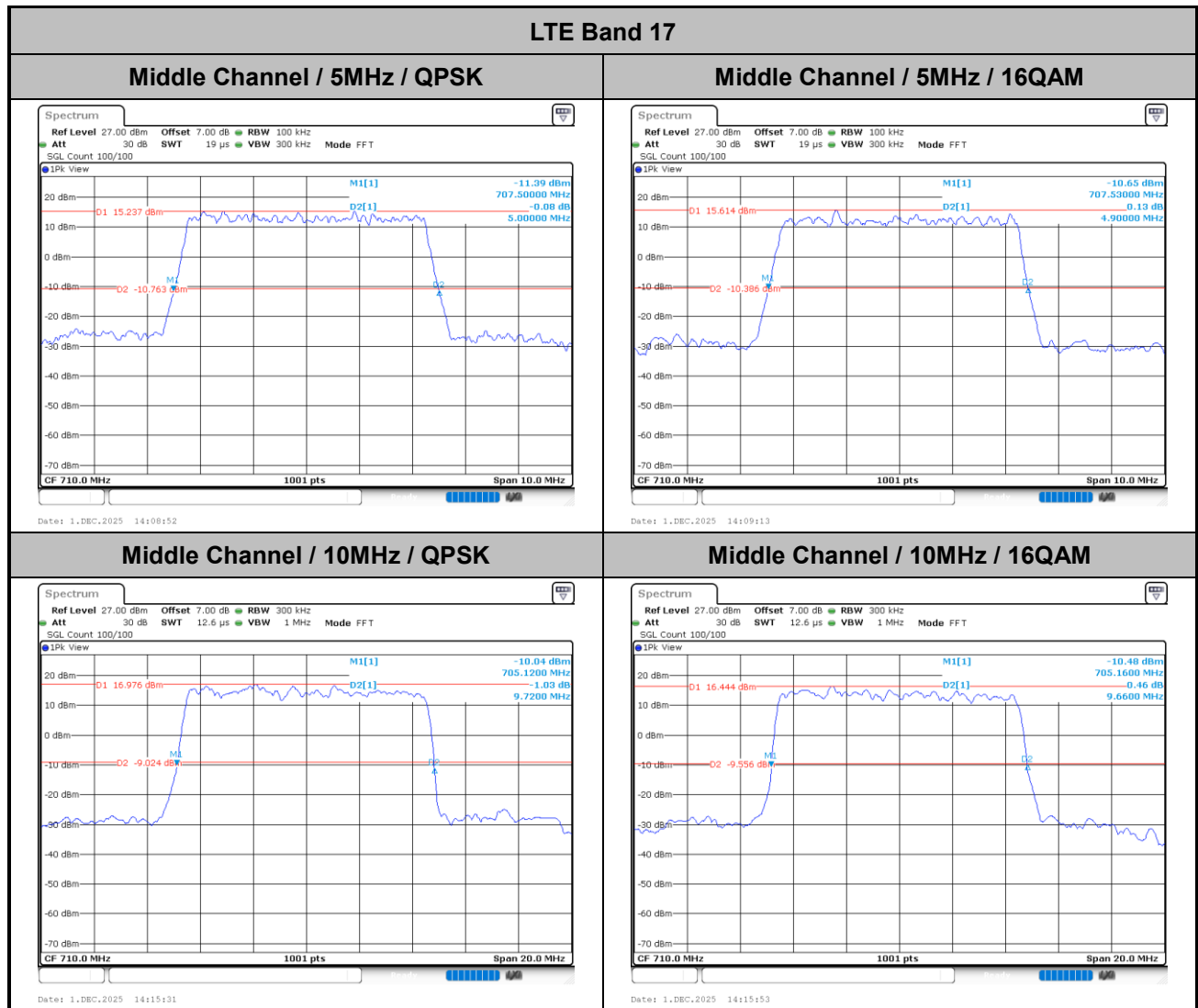
LTE Band 17 / 5MHz / 16QAM

Middle Channel / Full RB



**26dB Bandwidth**

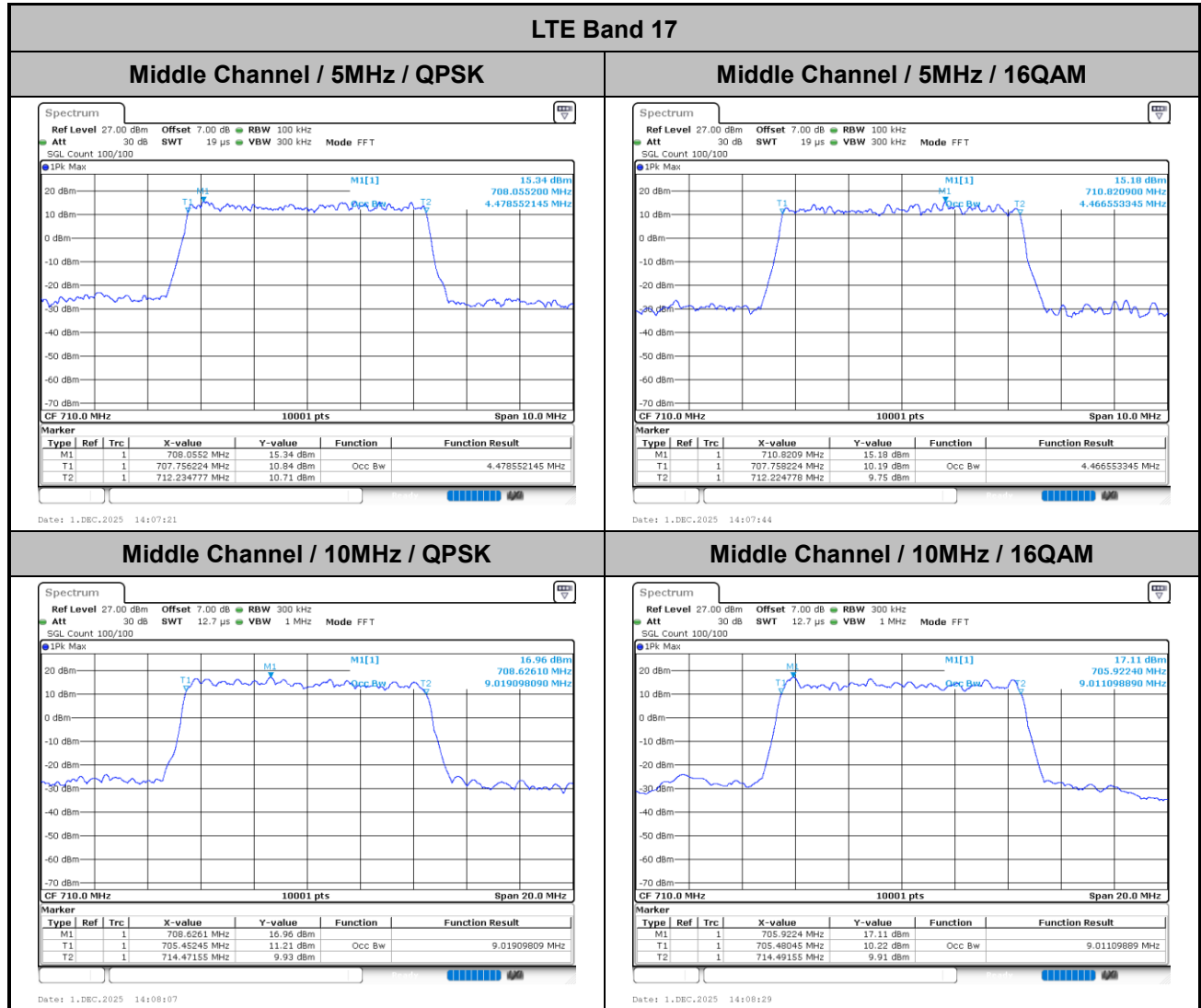
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.00	4.90	9.72	9.66	-	-	-	-





Occupied Bandwidth

Mode	LTE Band 17 : 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	4.46	9.01	9.01	-	-	-	-



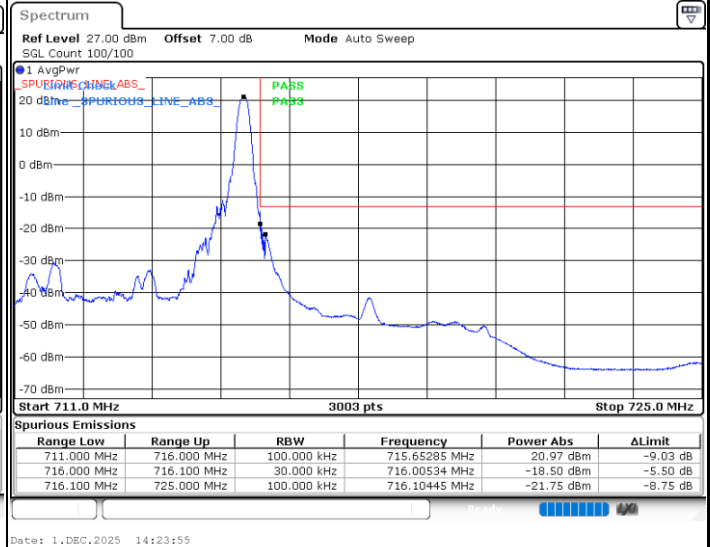
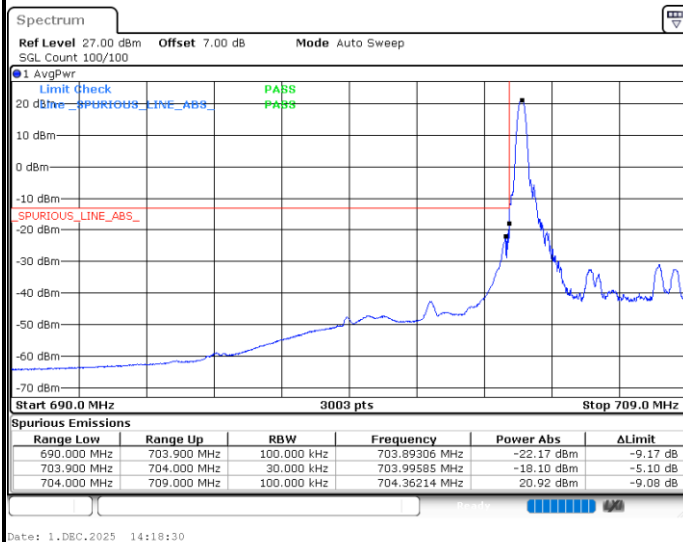


Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

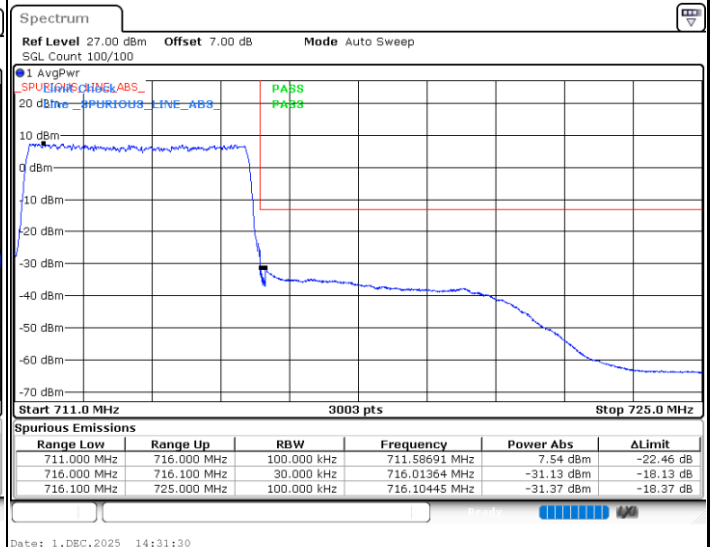
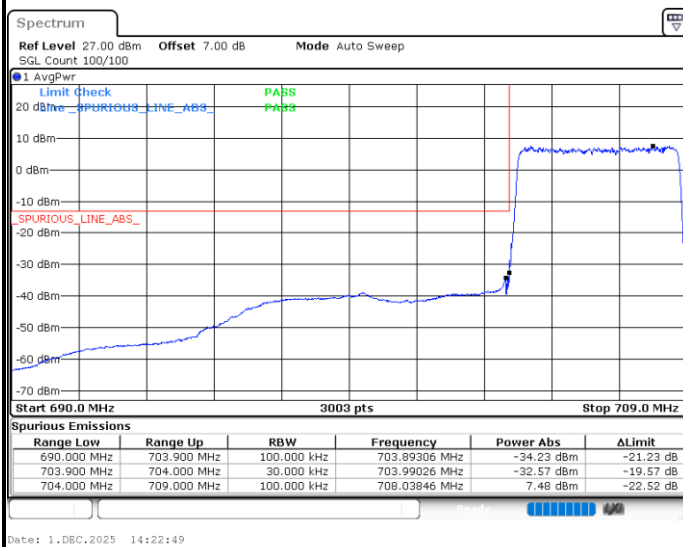
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

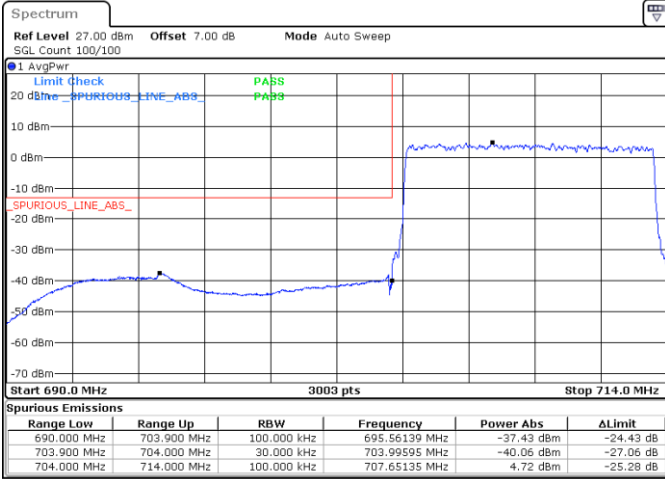
Highest Band Edge / Full RB



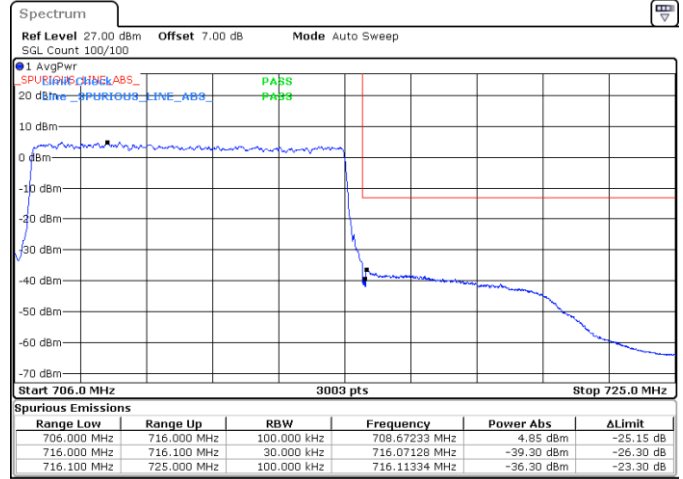


LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

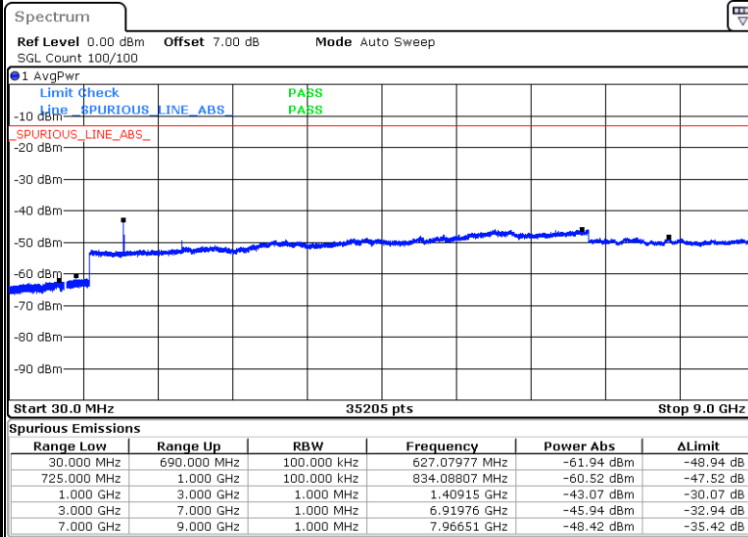




Conducted Spurious Emission

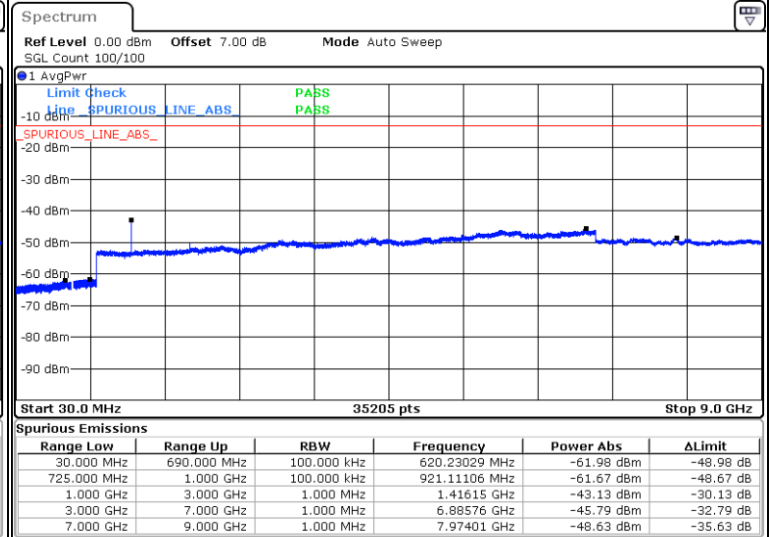
LTE Band 17 / 5MHz

Lowest Channel / QPSK



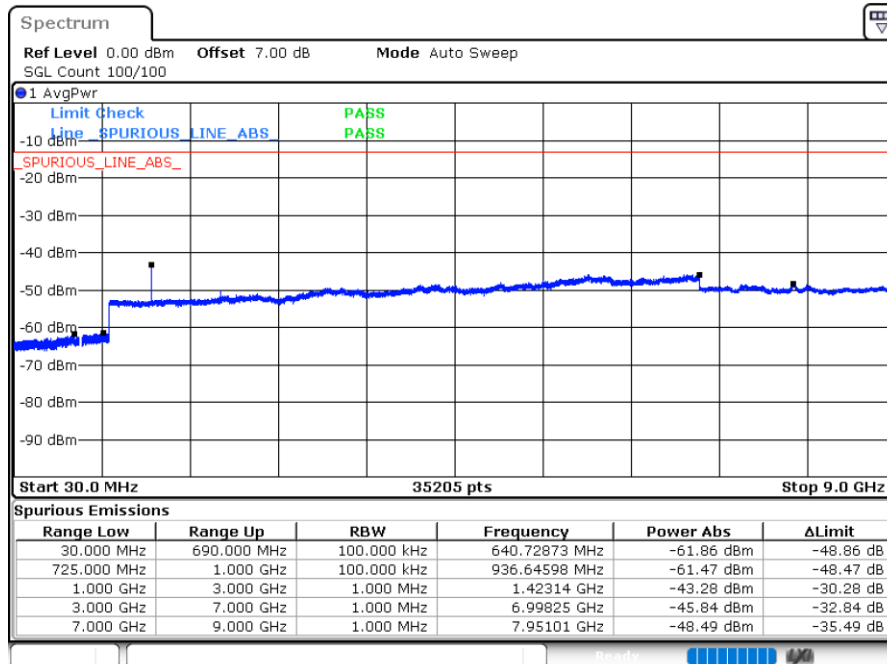
Date: 1.DEC.2025 14:38:33

Middle Channel / QPSK



Date: 1.DEC.2025 14:40:30

Highest Channel / QPSK

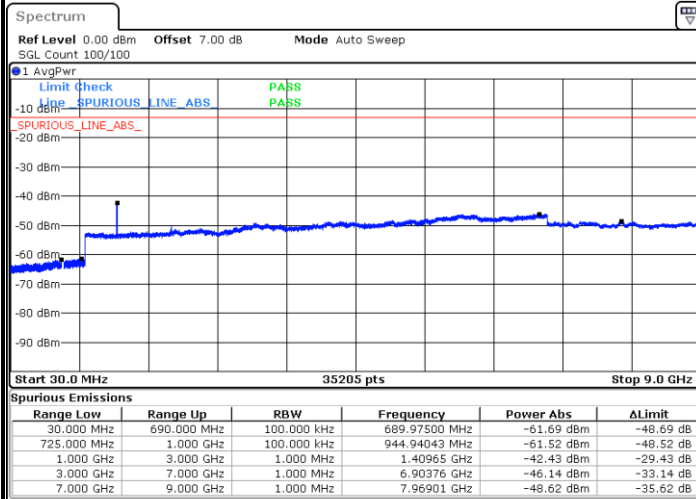


Date: 1.DEC.2025 14:42:38



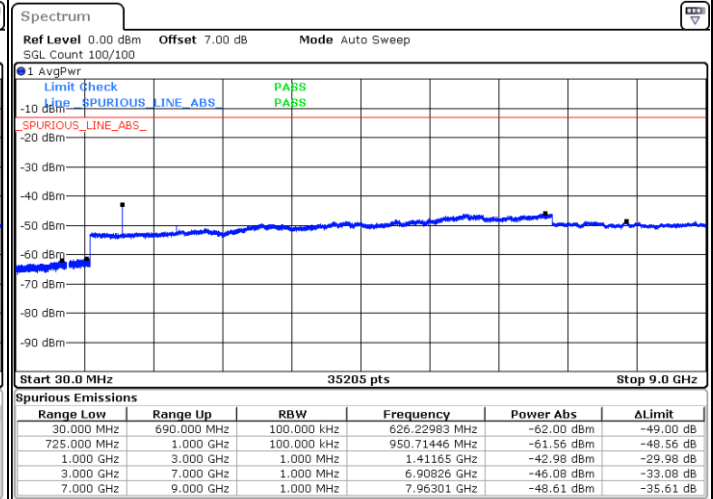
LTE Band 17 / 10MHz

Lowest Channel / QPSK



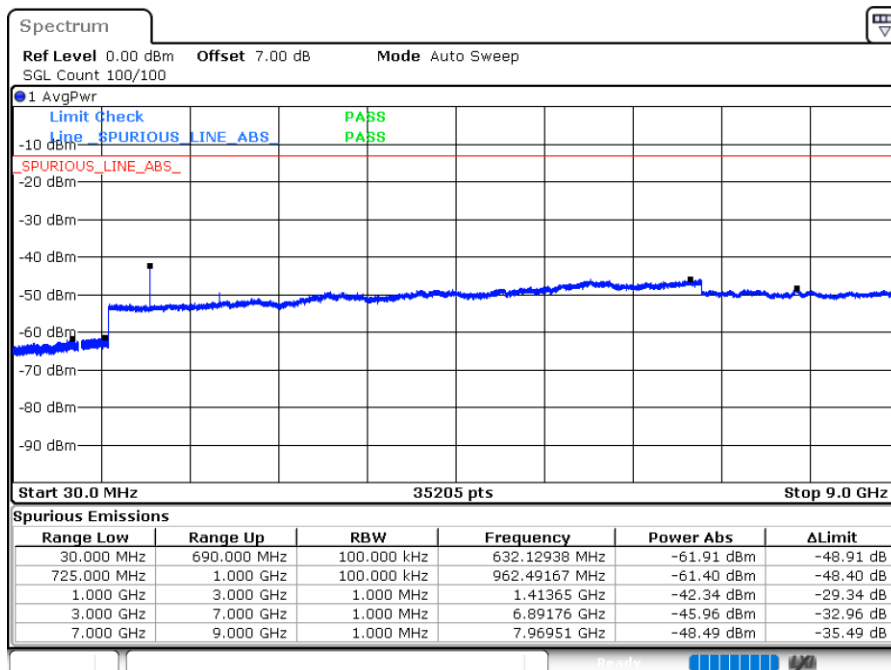
Date: 1.DEC.2025 14:43:32

Middle Channel / QPSK



Date: 1.DEC.2025 14:45:30

Highest Channel / QPSK



Date: 1.DEC.2025 14:47:28

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0037	-2.6	Yes	PASS
40	Normal Voltage	0.0103	-7.3	Yes	
30	Normal Voltage	0.0237	-16.8	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0001	-0.1	Yes	
0	Normal Voltage	0.0149	-10.6	Yes	
-10	Normal Voltage	0.0151	-10.7	Yes	
-20	Normal Voltage	0.0011	-0.8	Yes	
-30	Normal Voltage	0.0001	0.1	Yes	
20	Maximum Voltage	0.0079	-5.6	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0199	-14.1	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 30

Peak-to-Average Ratio

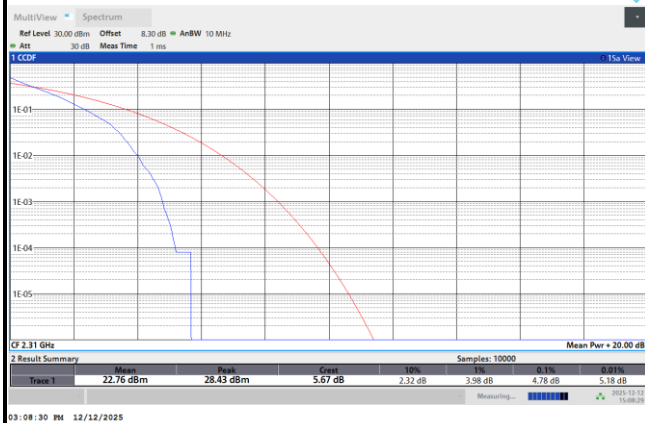
Mode	LTE Band 30 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.78	5.56	6.20	6.60	PASS

Mode	LTE Band 30 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.64	6.36	PASS



LTE Band 30 / 10MHz / QPSK

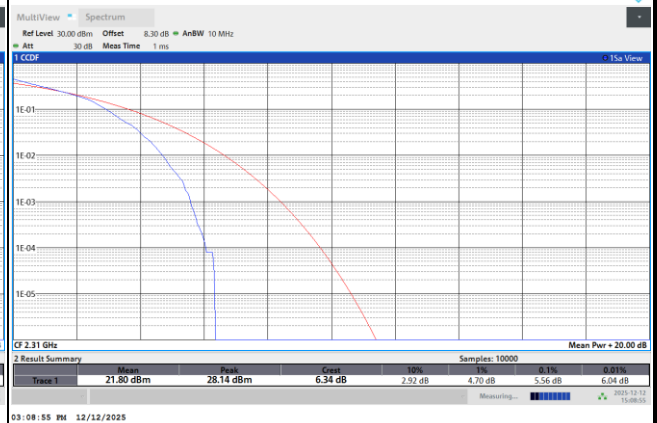
Middle Channel / Full RB



03:08:30 PM 12/12/2025

LTE Band 30 / 10MHz / 16QAM

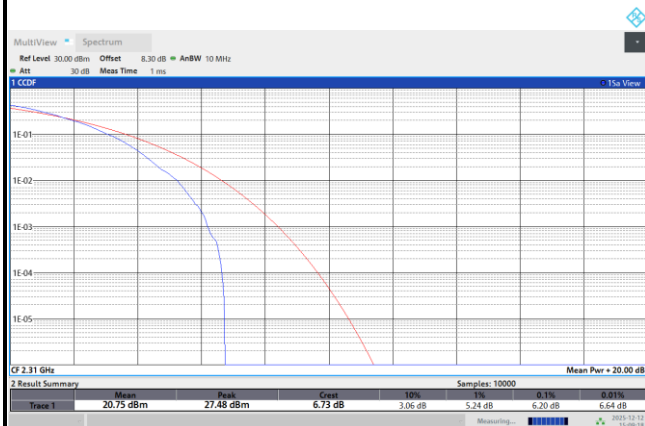
Middle Channel / Full RB



03:08:55 PM 12/12/2025

LTE Band 30 / 10MHz / 64QAM

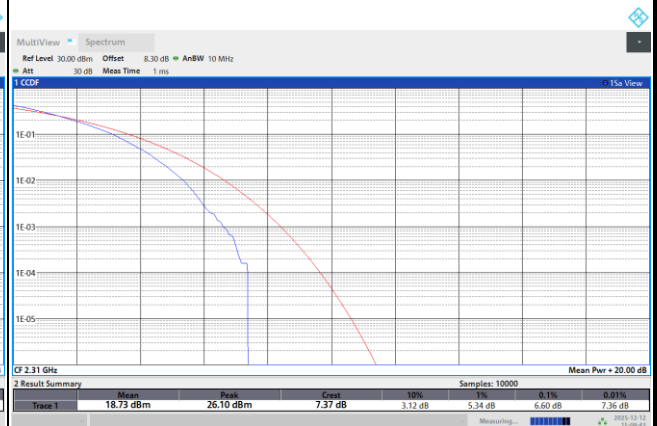
Middle Channel / Full RB



03:09:19 PM 12/12/2025

LTE Band 30 / 10MHz / 256QAM

Middle Channel / Full RB



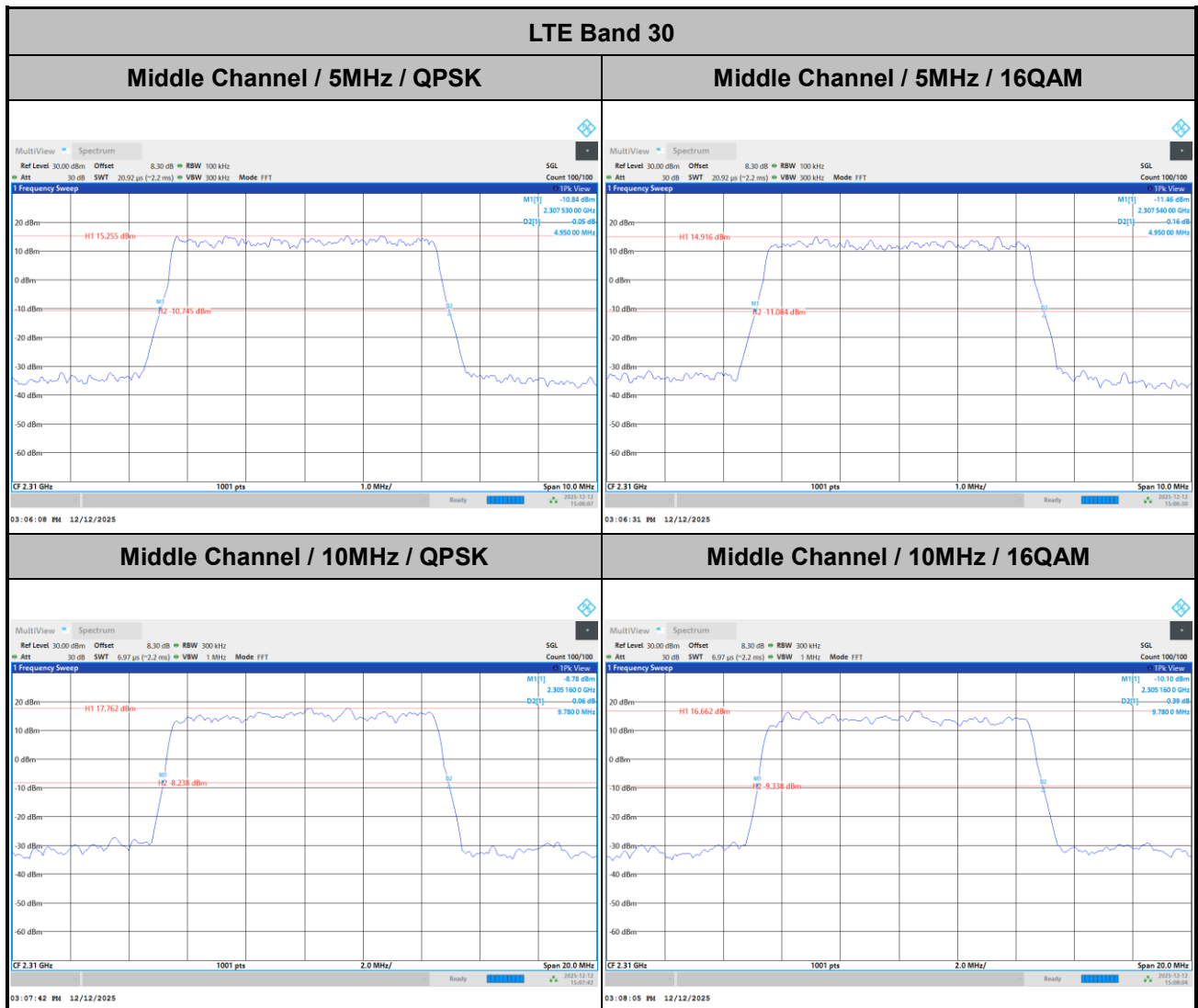
03:09:44 PM 12/12/2025



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**26dB Bandwidth**

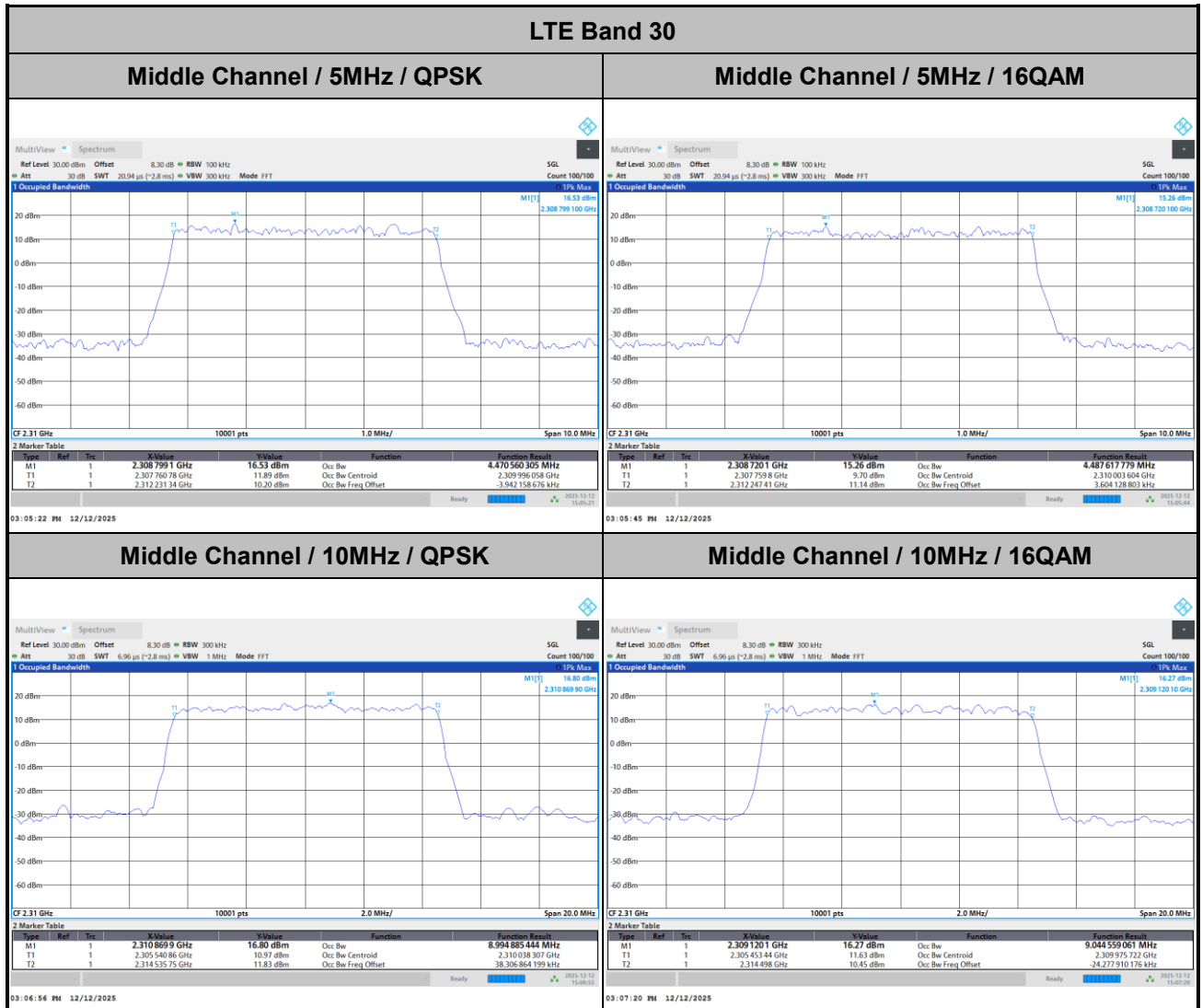
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	4.95	9.78	9.78	-	-	-	-





Occupied Bandwidth

Mode	LTE Band 30 : 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	4.48	8.99	9.04	-	-	-	-

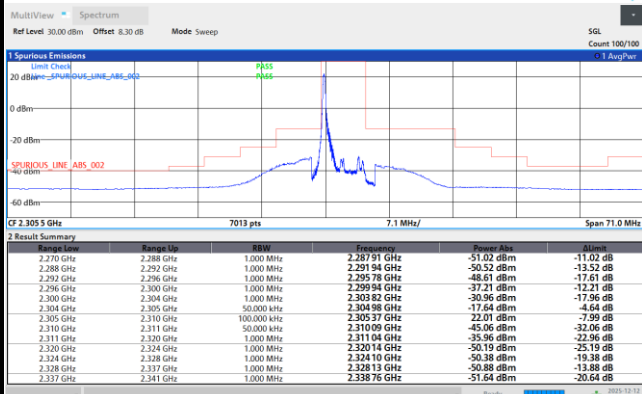




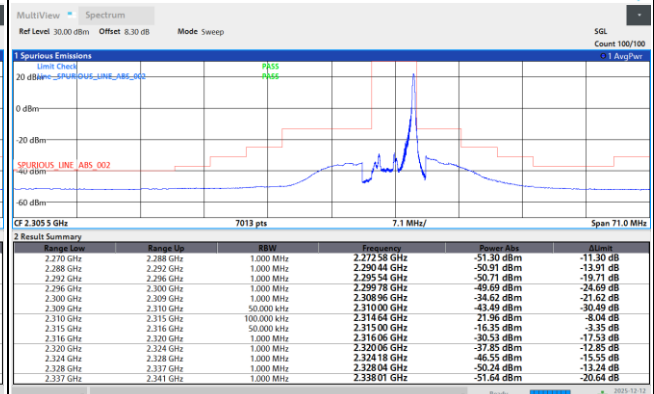
Conducted Band Edge

LTE Band 30 / 5MHz / QPSK

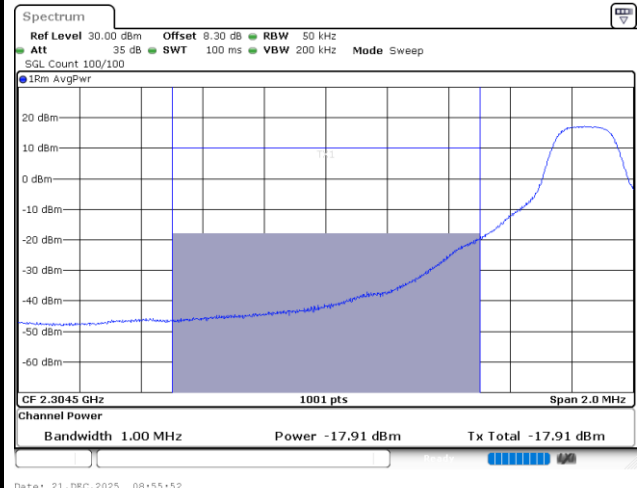
Lowest Band Edge / 1 RB



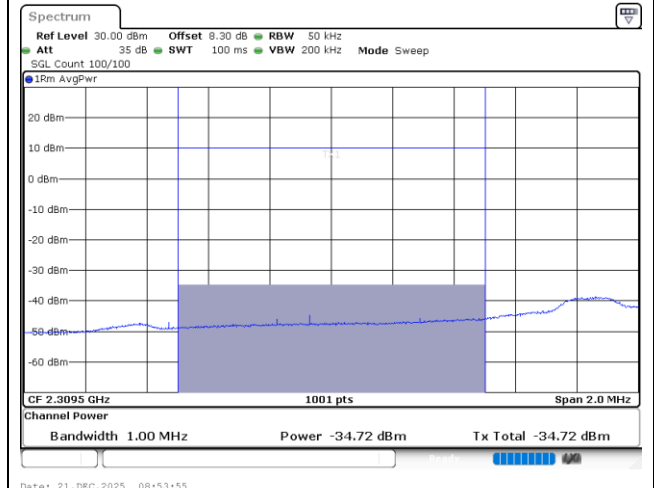
Highest Band Edge / 1 RB



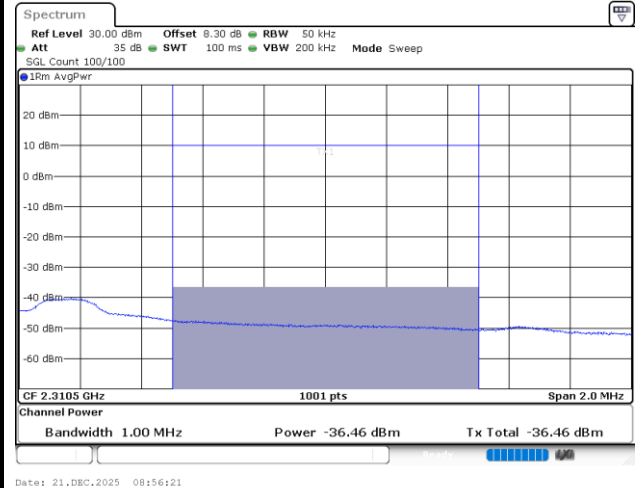
Lowest Band Edge / 1 RB / Lower zoom in



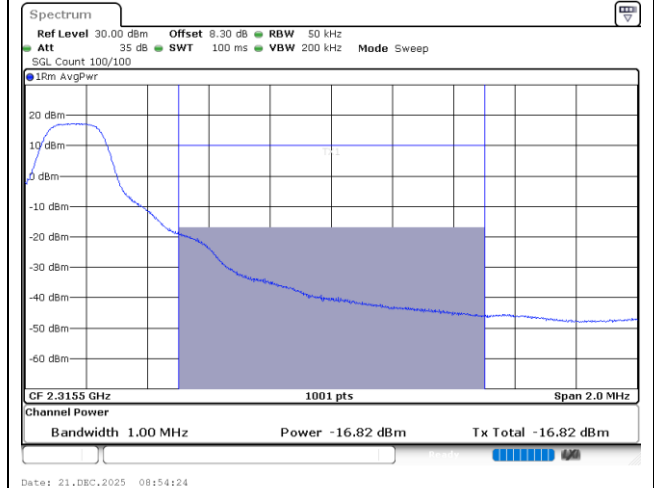
Highest Band Edge / 1 RB / Lower zoom in



Lowest Band Edge / 1 RB / Upper zoom in



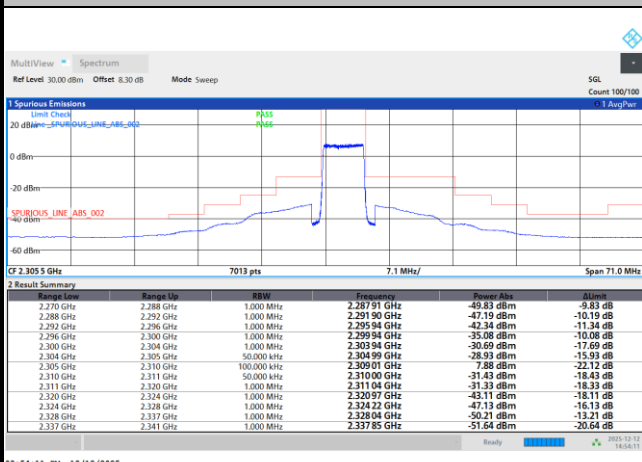
Highest Band Edge / 1 RB / Upper zoom in



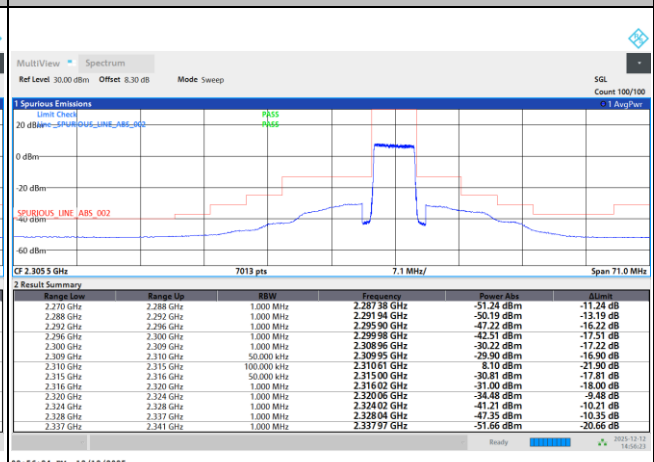


LTE Band 30 / 5MHz / QPSK

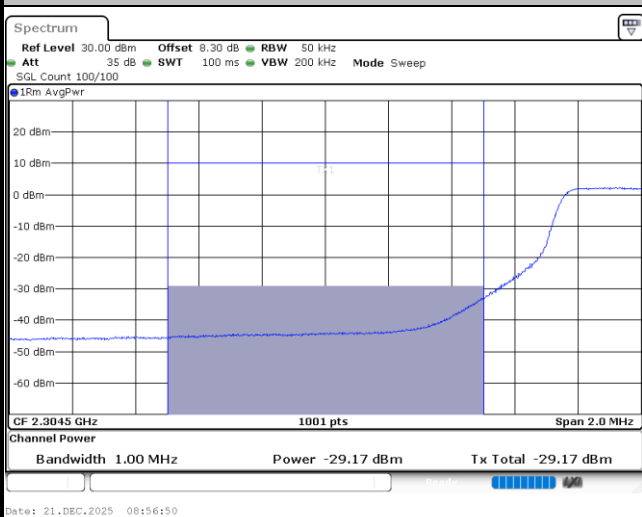
Lowest Band Edge / Full RB



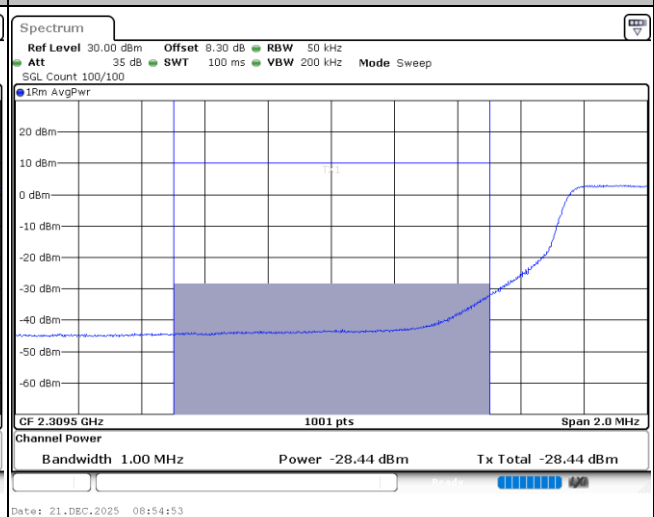
Highest Band Edge / Full RB



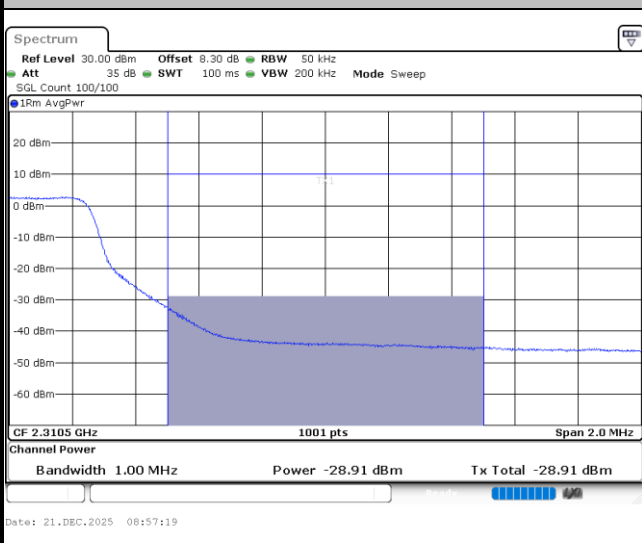
Lowest Band Edge / Full RB / Lower zoom in



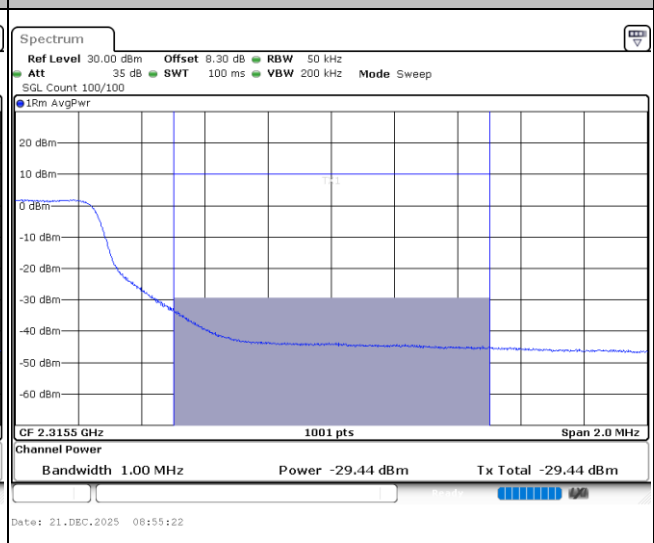
Highest Band Edge / Full RB / Lower zoom in



Lowest Band Edge / Full RB / Upper zoom in



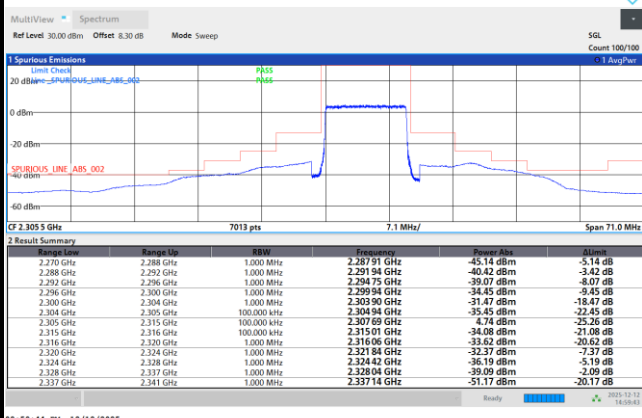
Highest Band Edge / Full RB / Upper zoom in



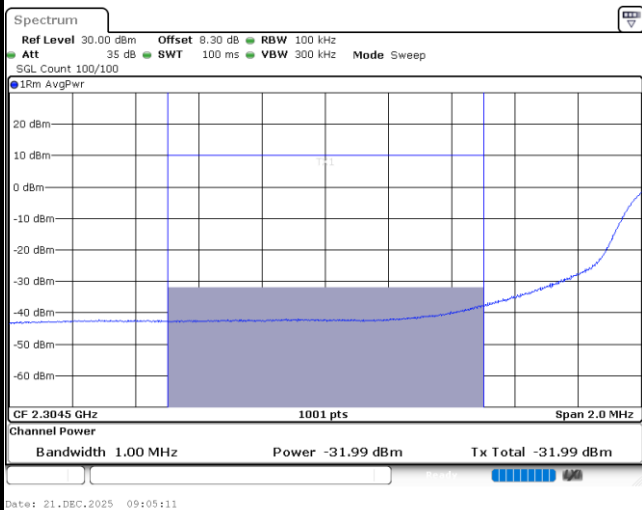


LTE Band 30 / 10MHz / QPSK

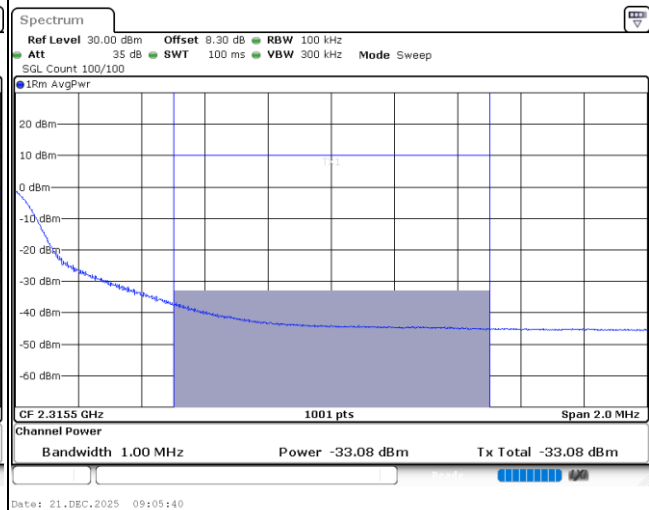
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



Middle Band Edge / Full RB / Upper zoom in

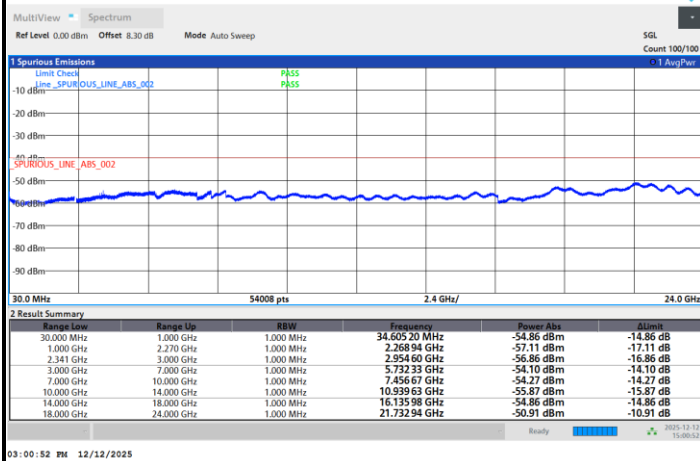




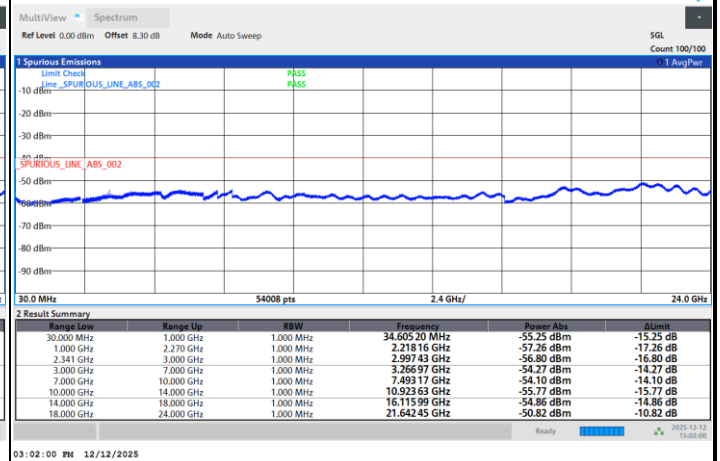
Conducted Spurious Emission

LTE Band 30 / 5MHz

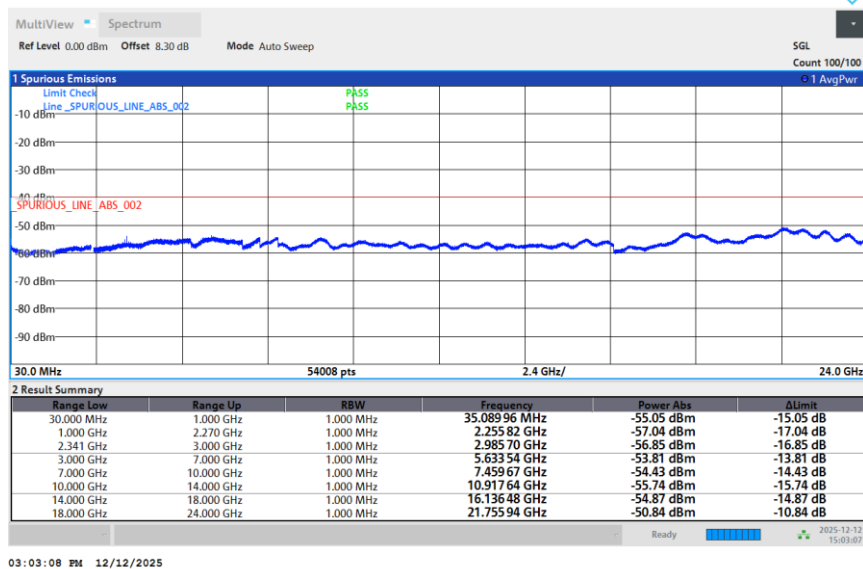
Lowest Channel / QPSK



Middle Channel / QPSK



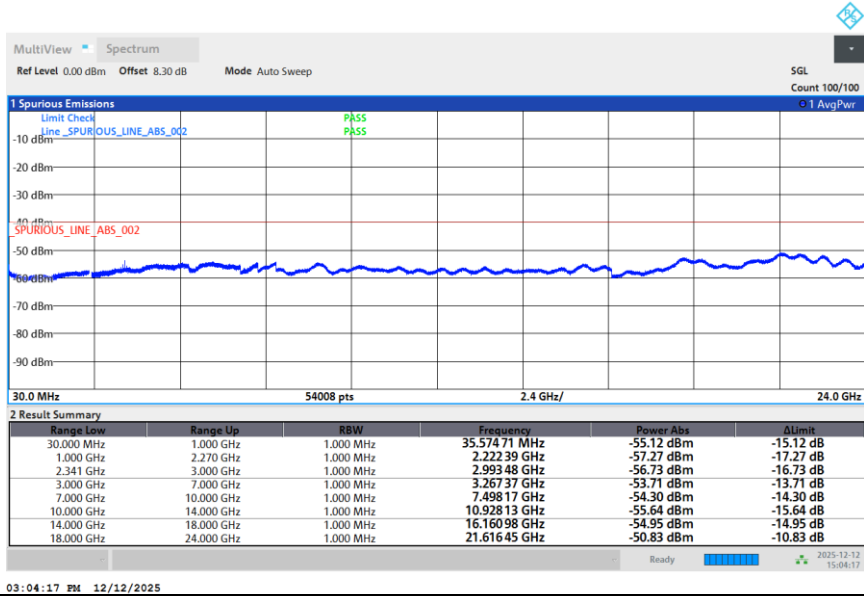
Highest Channel / QPSK





LTE Band 30 / 10MHz

Middle Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel / BandWidth 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0016	-3.7	Yes	PASS
40	Normal Voltage	0.0015	-3.4	Yes	
30	Normal Voltage	0.0002	0.5	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0025	5.7	Yes	
0	Normal Voltage	0.0001	0.3	Yes	
-10	Normal Voltage	0.0050	-11.5	Yes	
-20	Normal Voltage	0.0052	-12	Yes	
-30	Normal Voltage	0.0054	-12.5	Yes	
20	Maximum Voltage	0.0016	-3.7	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0047	-10.9	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 38

Peak-to-Average Ratio

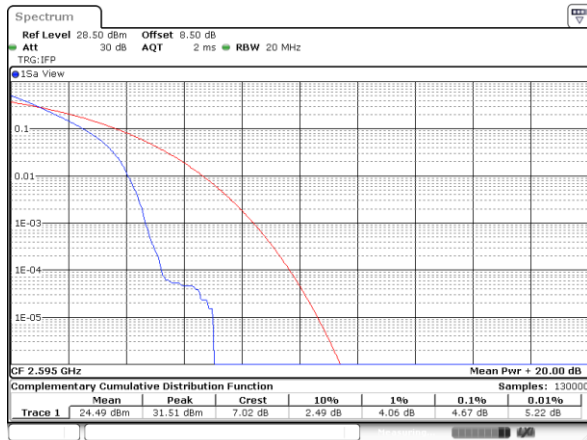
Mode	LTE Band 38 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.67	5.51	6.61	6.75	PASS

Mode	LTE Band 38 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.87	5.59	PASS
Mode	LTE Band 38 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.67	5.57	PASS
Mode	LTE Band 38 / 15MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.90	5.59	PASS



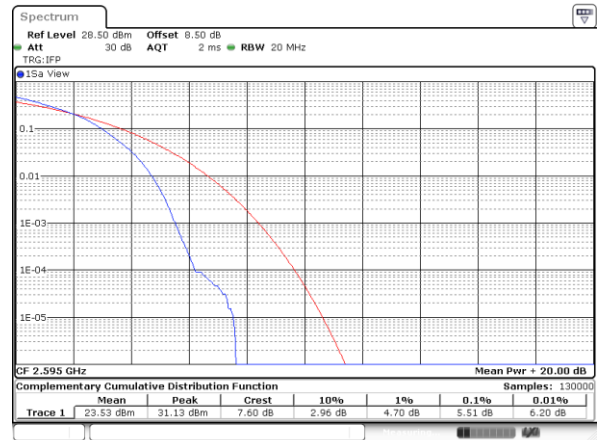
LTE Band 38 / 20MHz / QPSK

Middle Channel / Full RB



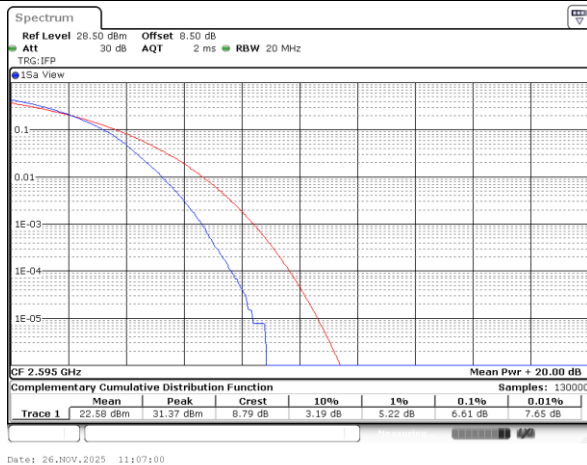
LTE Band 38 / 20MHz / 16QAM

Middle Channel / Full RB



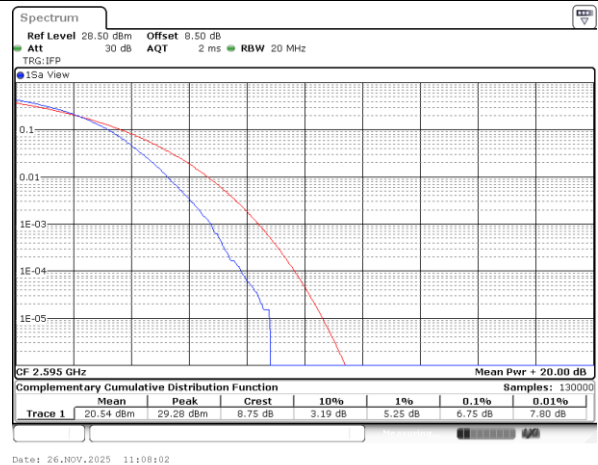
LTE Band 38 / 20MHz / 64QAM

Middle Channel / Full RB



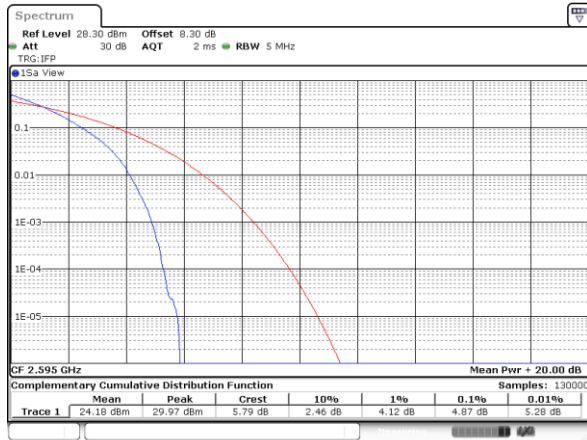
LTE Band 38 / 20MHz / 256QAM

Middle Channel / Full RB



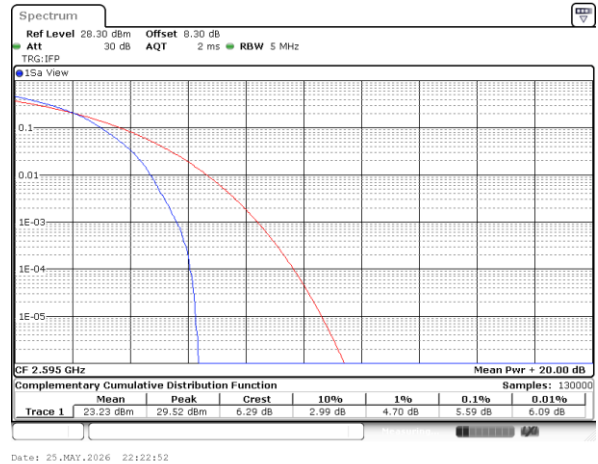
LTE Band 38 / 5MHz / QPSK

Middle Channel / Full RB



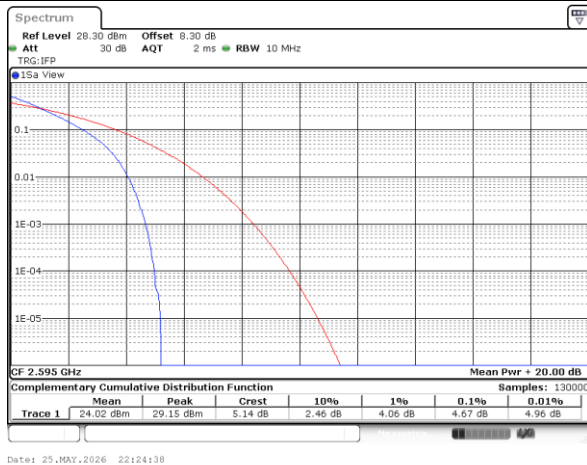
LTE Band 38 / 5MHz / 16QAM

Middle Channel / Full RB



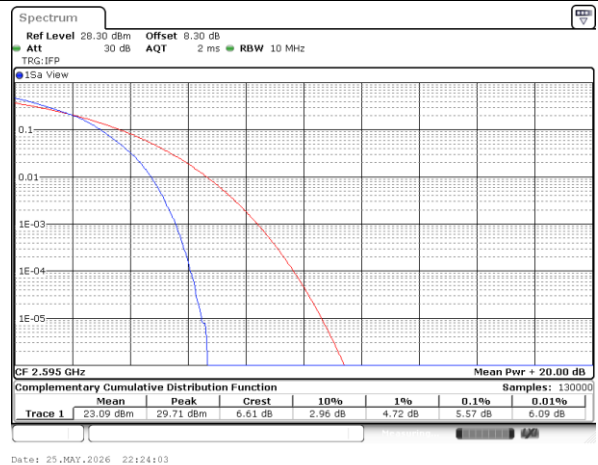
LTE Band 38 / 10MHz / QPSK

Middle Channel / Full RB



LTE Band 38 / 10MHz / 16QAM

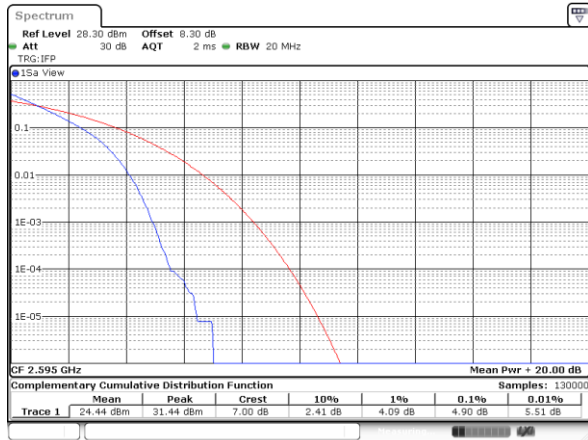
Middle Channel / Full RB





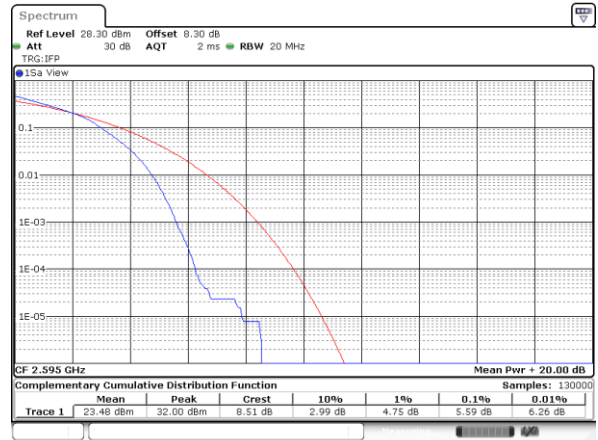
LTE Band 38 / 15MHz / QPSK

Middle Channel / Full RB



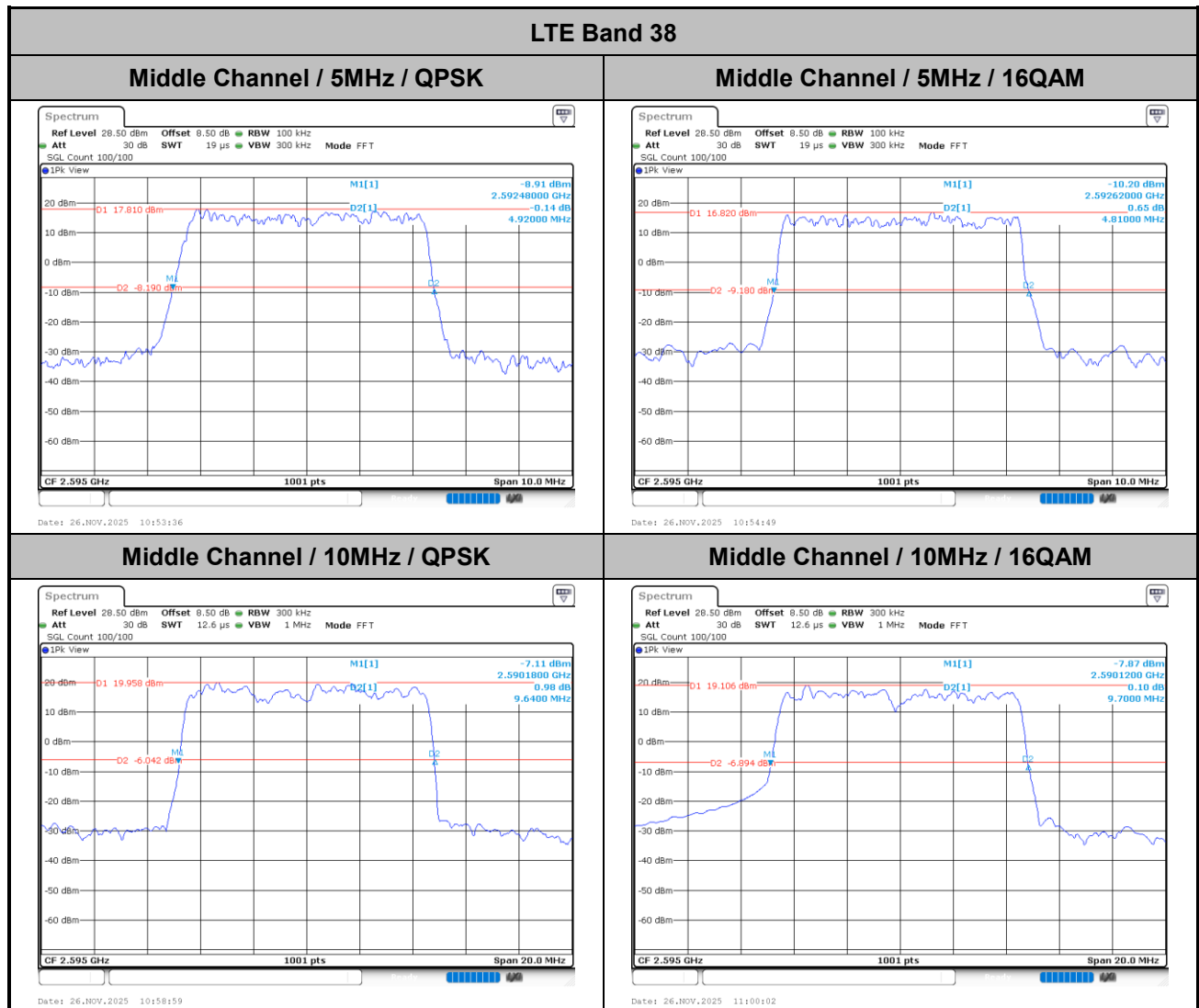
LTE Band 38 / 15MHz / 16QAM

Middle Channel / Full RB



**26dB Bandwidth**

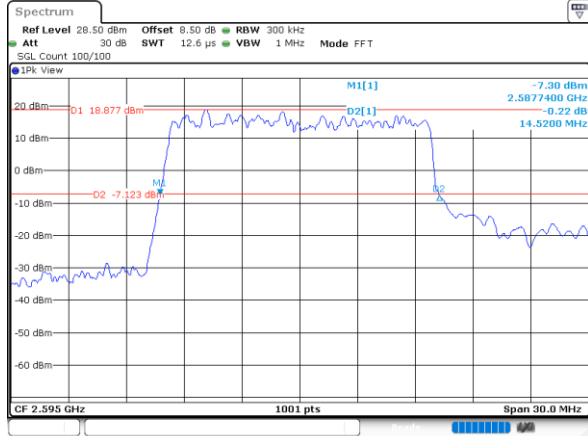
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.92	4.81	9.64	9.70	14.52	14.31	18.96	18.72



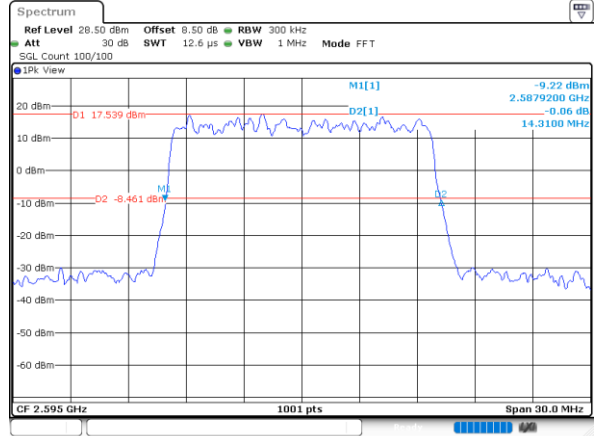


LTE Band 38

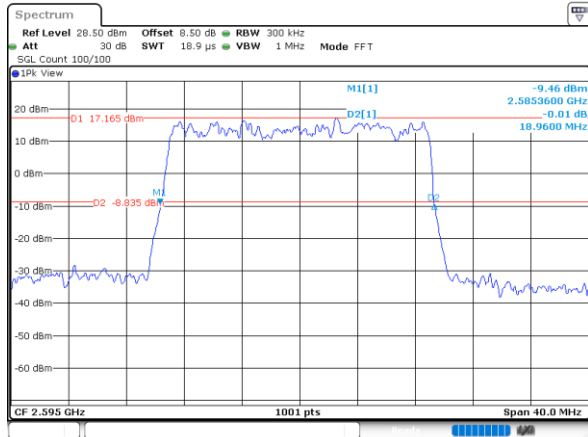
Middle Channel / 15MHz / QPSK



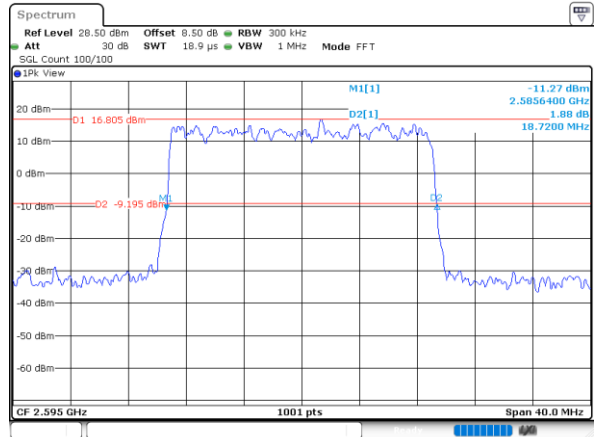
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



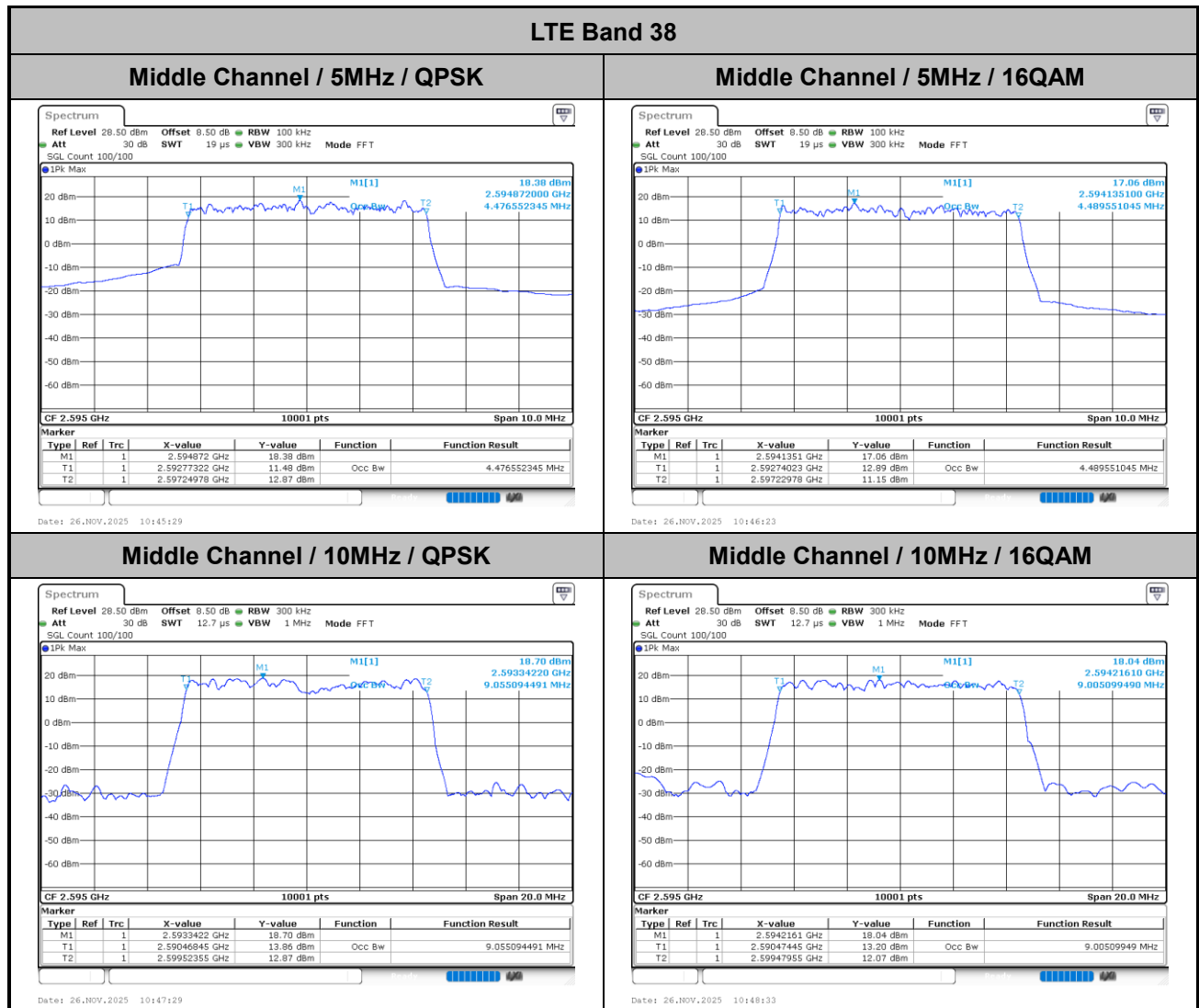
Middle Channel / 20MHz / 16QAM





Occupied Bandwidth

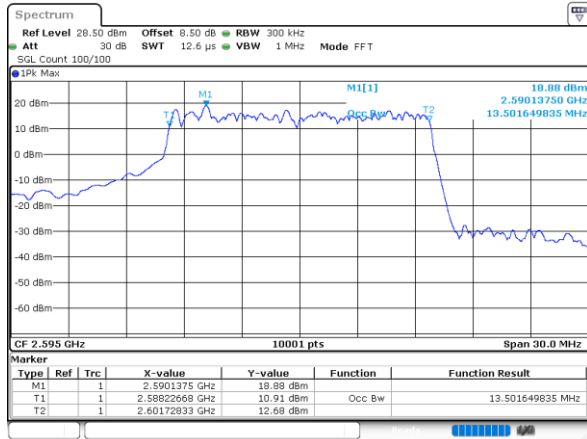
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.47	4.48	9.05	9.00	13.50	13.48	17.83	17.99



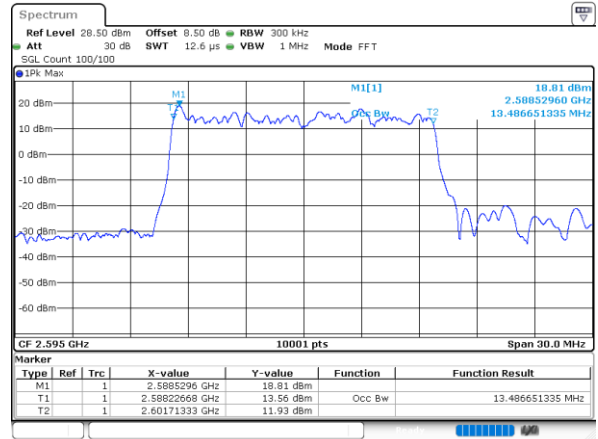


LTE Band 38

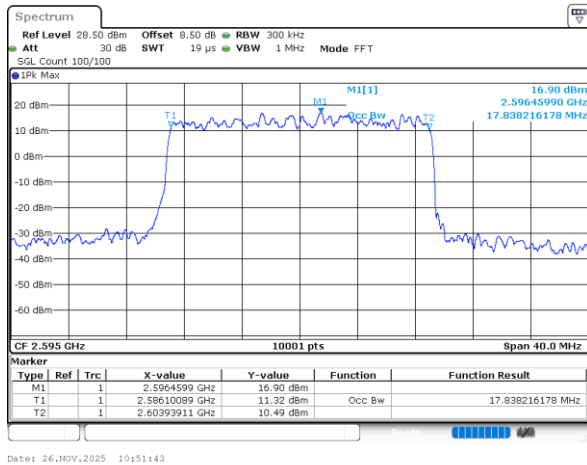
Middle Channel / 15MHz / QPSK



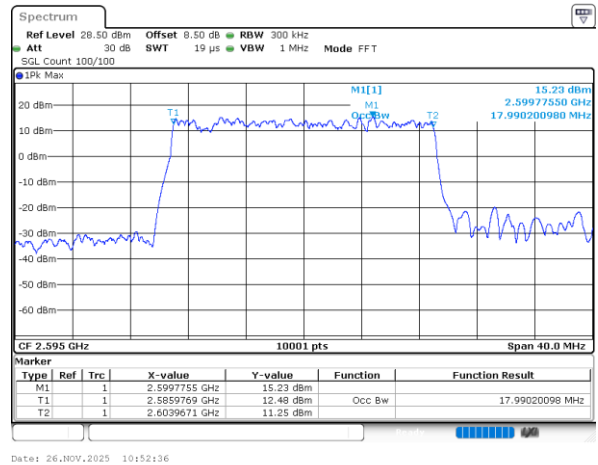
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

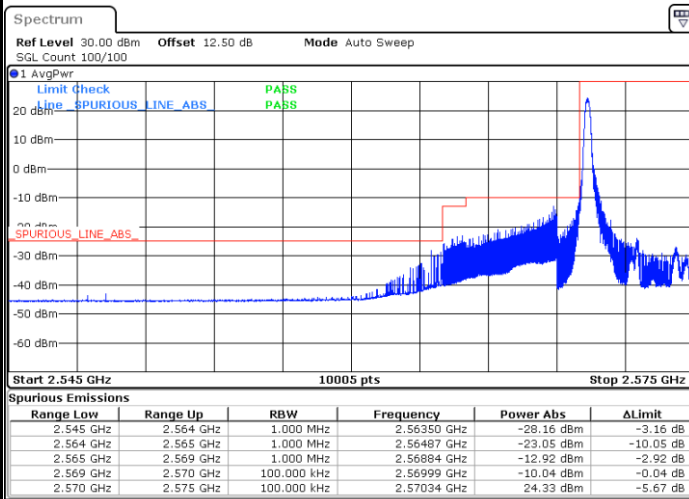




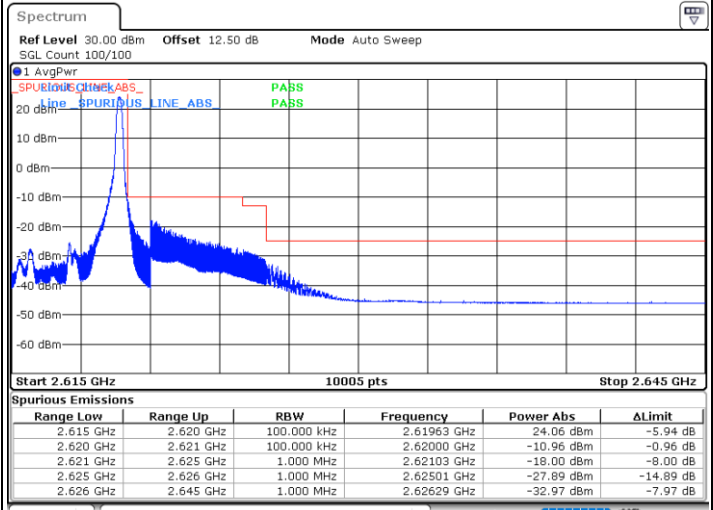
Conducted Band Edge

LTE Band 38 / 5MHz / QPSK

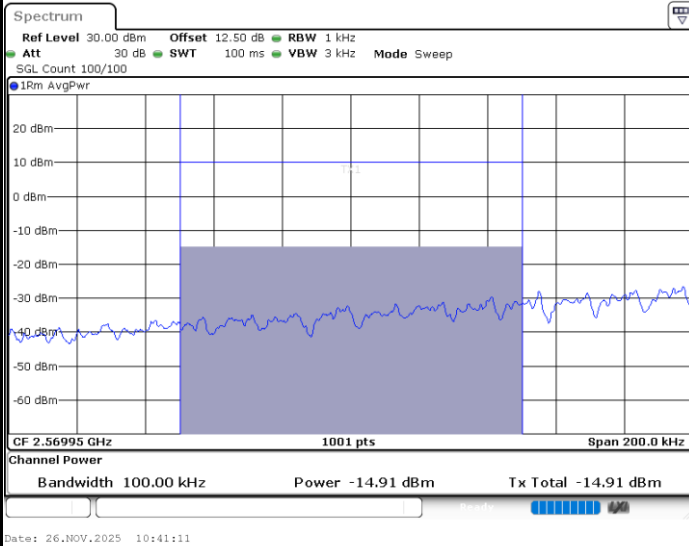
Lowest Band Edge / 1 RB



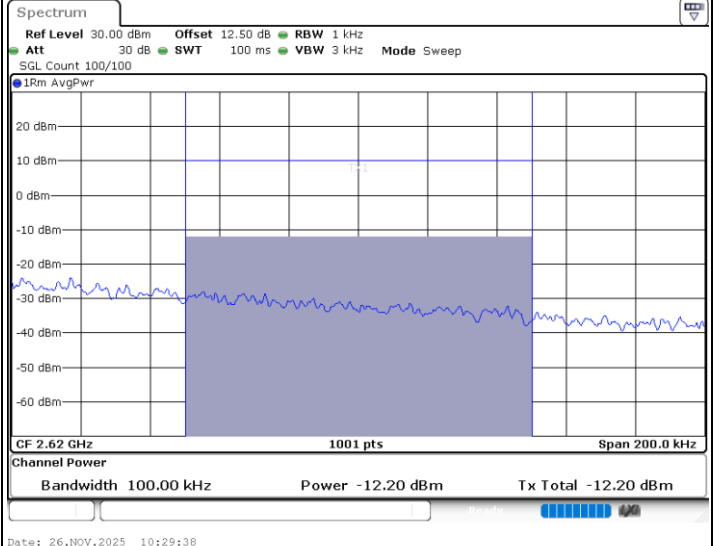
Highest Band Edge / 1 RB

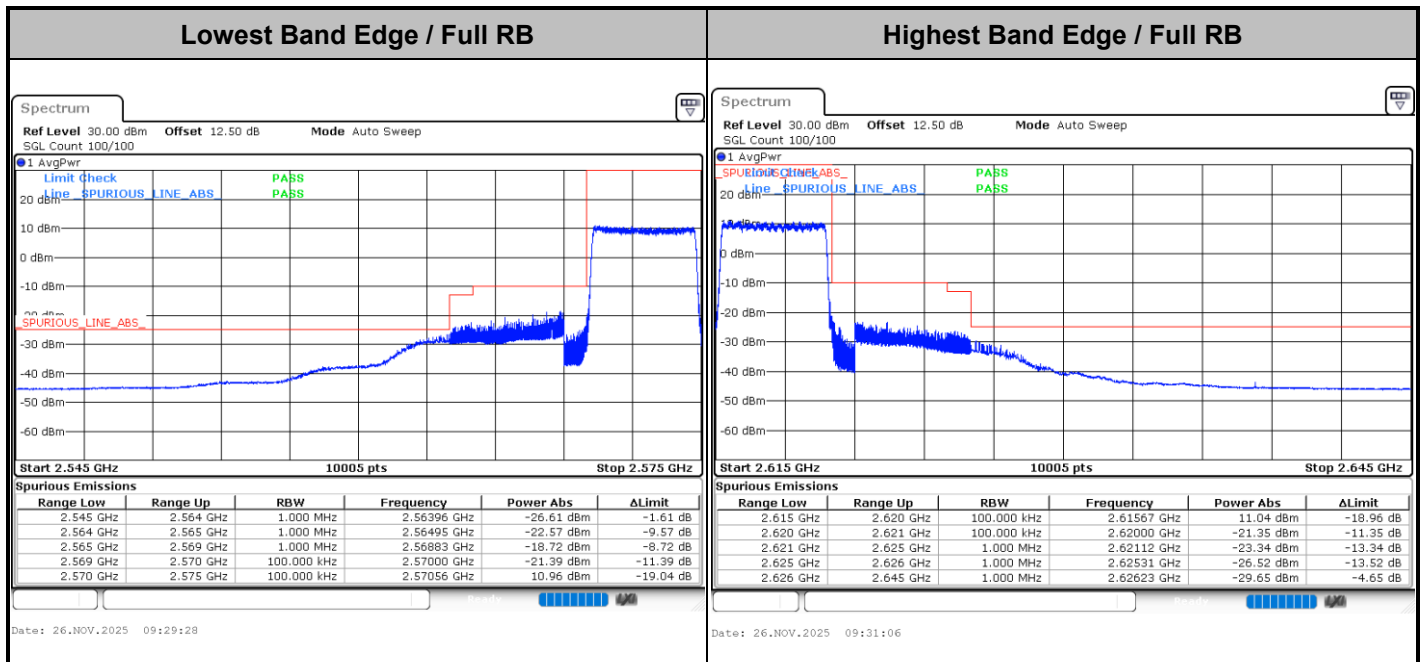


Conducted Power verify



Conducted Power verify

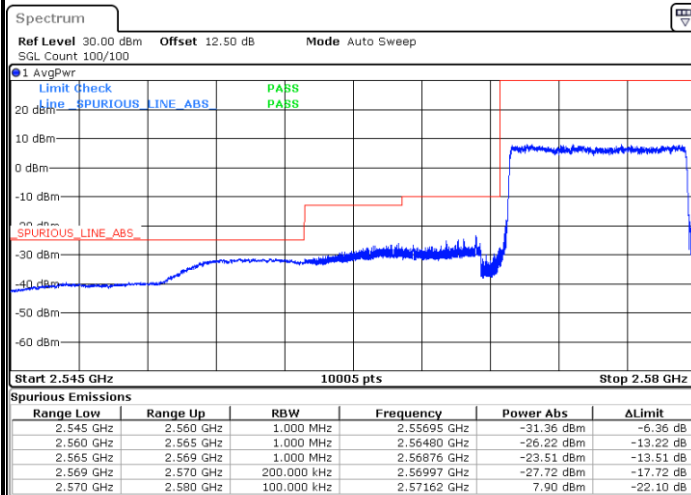




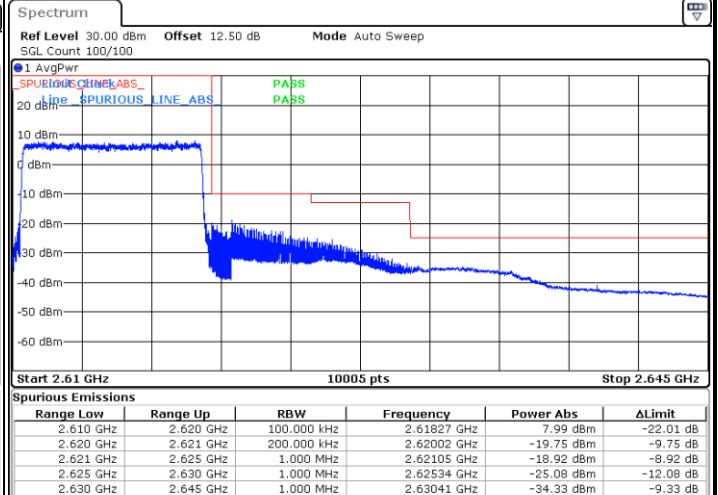


LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / Full RB

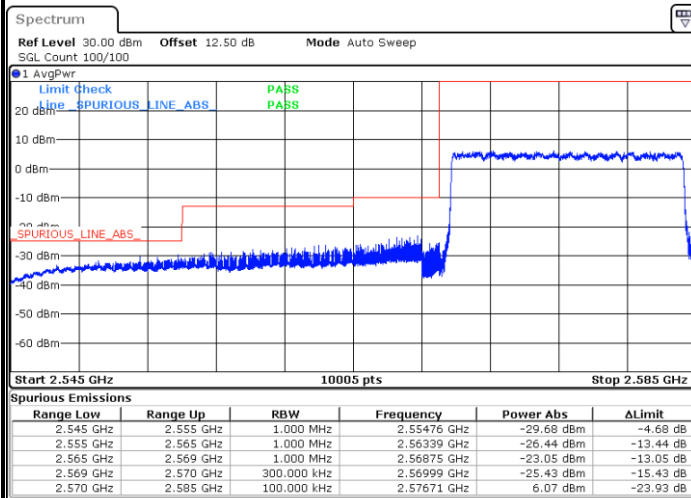


Highest Band Edge / Full RB



LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

