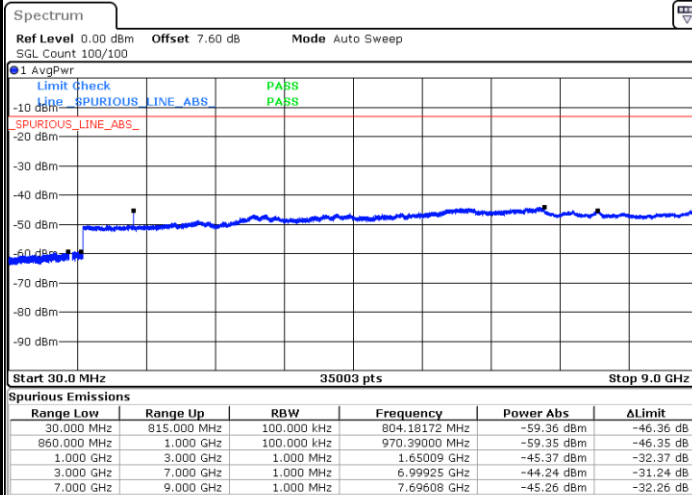




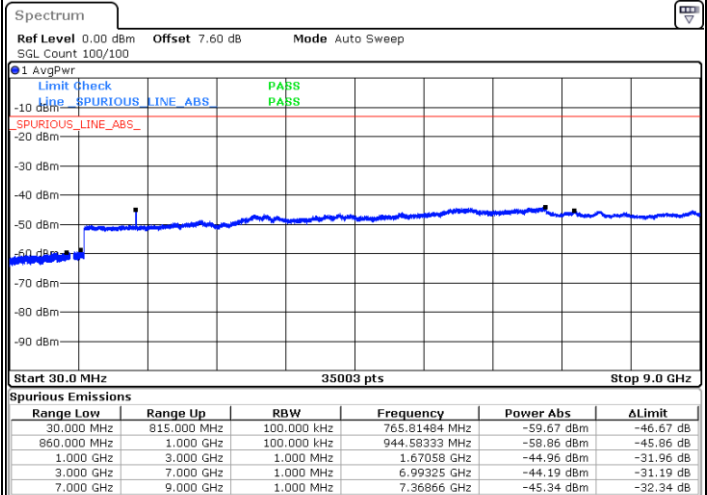
LTE Band 5 / 3MHz

Lowest Channel / QPSK



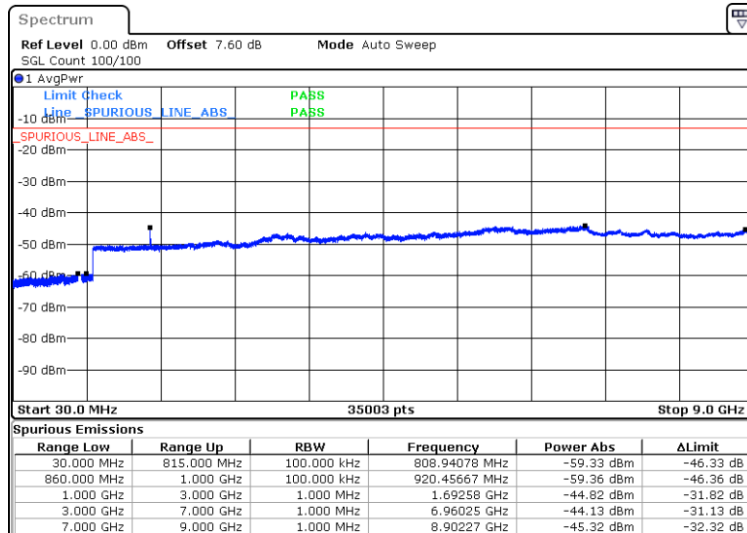
Date: 22.DEC.2025 04:44:31

Middle Channel / QPSK



Date: 22.DEC.2025 04:45:44

Highest Channel / QPSK

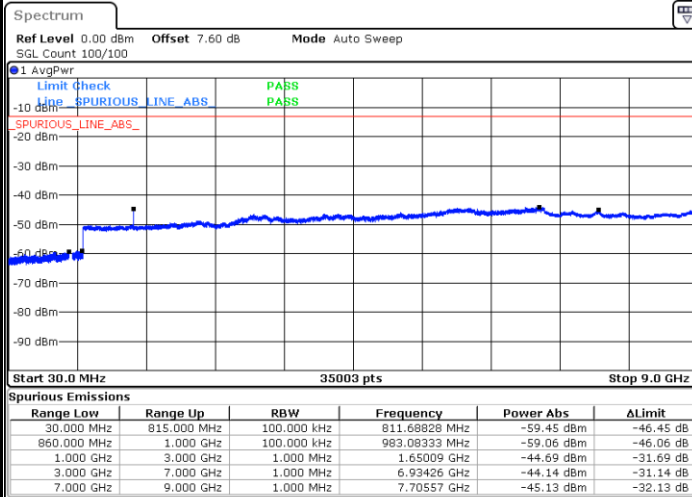


Date: 22.DEC.2025 04:46:56



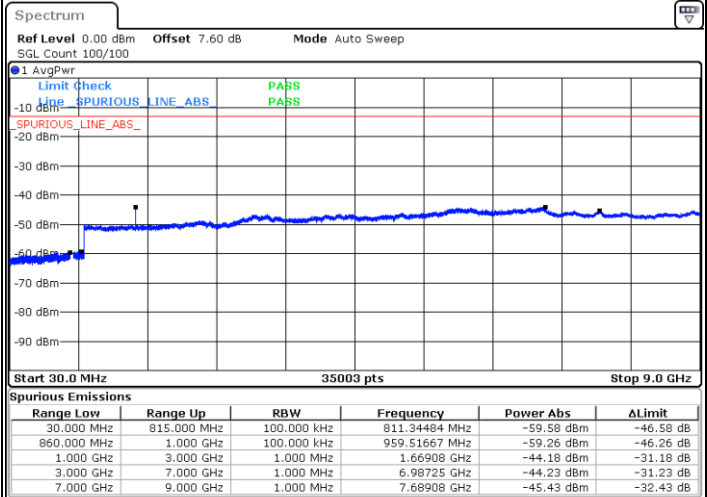
LTE Band 5 / 5MHz

Lowest Channel / QPSK



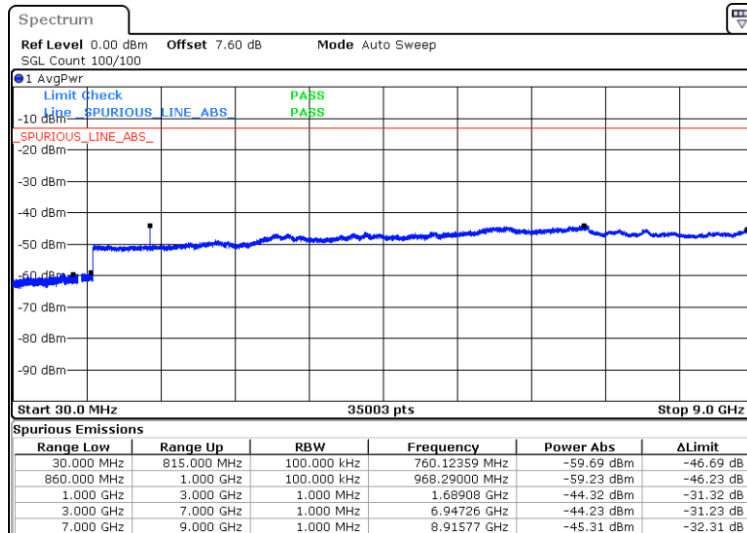
Date: 22.DEC.2025 04:48:10

Middle Channel / QPSK



Date: 22.DEC.2025 04:49:22

Highest Channel / QPSK

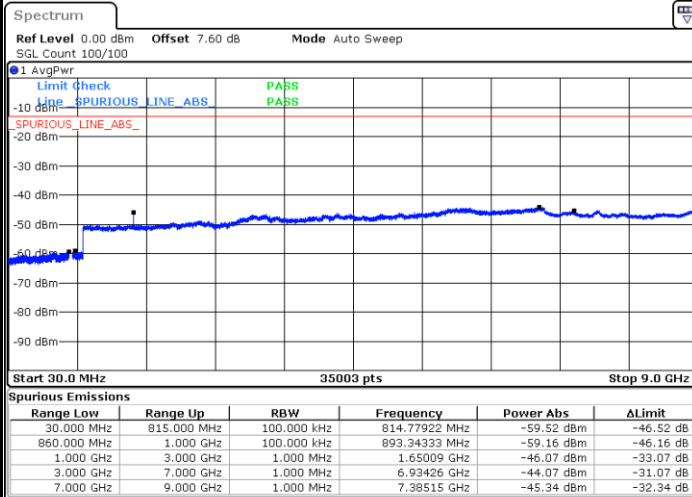


Date: 22.DEC.2025 04:50:35



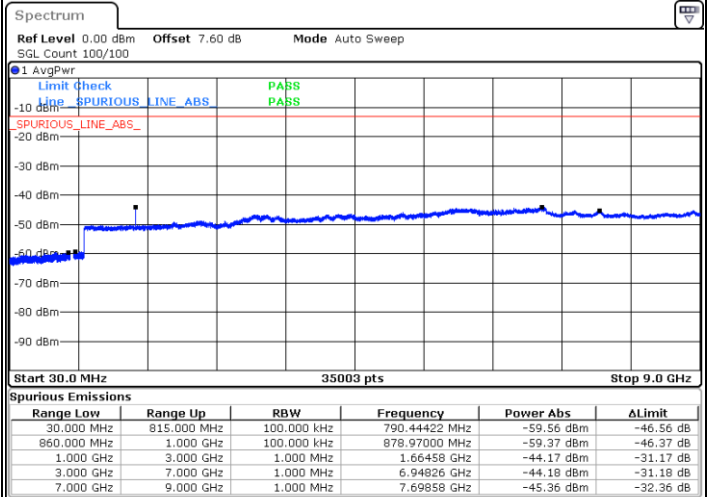
LTE Band 5 / 10MHz

Lowest Channel / QPSK



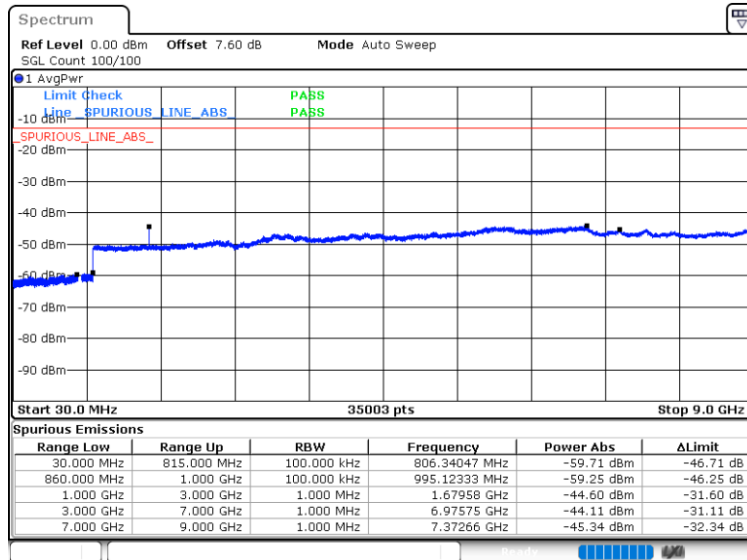
Date: 22.DEC.2025 04:51:48

Middle Channel / QPSK



Date: 22.DEC.2025 04:53:00

Highest Channel / QPSK



Date: 22.DEC.2025 04:54:13

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel / BandWidth 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0043	-3.6	Yes	PASS
40	Normal Voltage	0.0060	-5	Yes	
30	Normal Voltage	0.0169	-14.1	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0172	-14.4	Yes	
0	Normal Voltage	0.0117	-9.8	Yes	
-10	Normal Voltage	0.0000	0	Yes	
-20	Normal Voltage	0.0054	-4.5	Yes	
-30	Normal Voltage	0.0149	-12.5	Yes	
20	Maximum Voltage	0.0176	-14.7	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0024	-2	Yes	

Note:

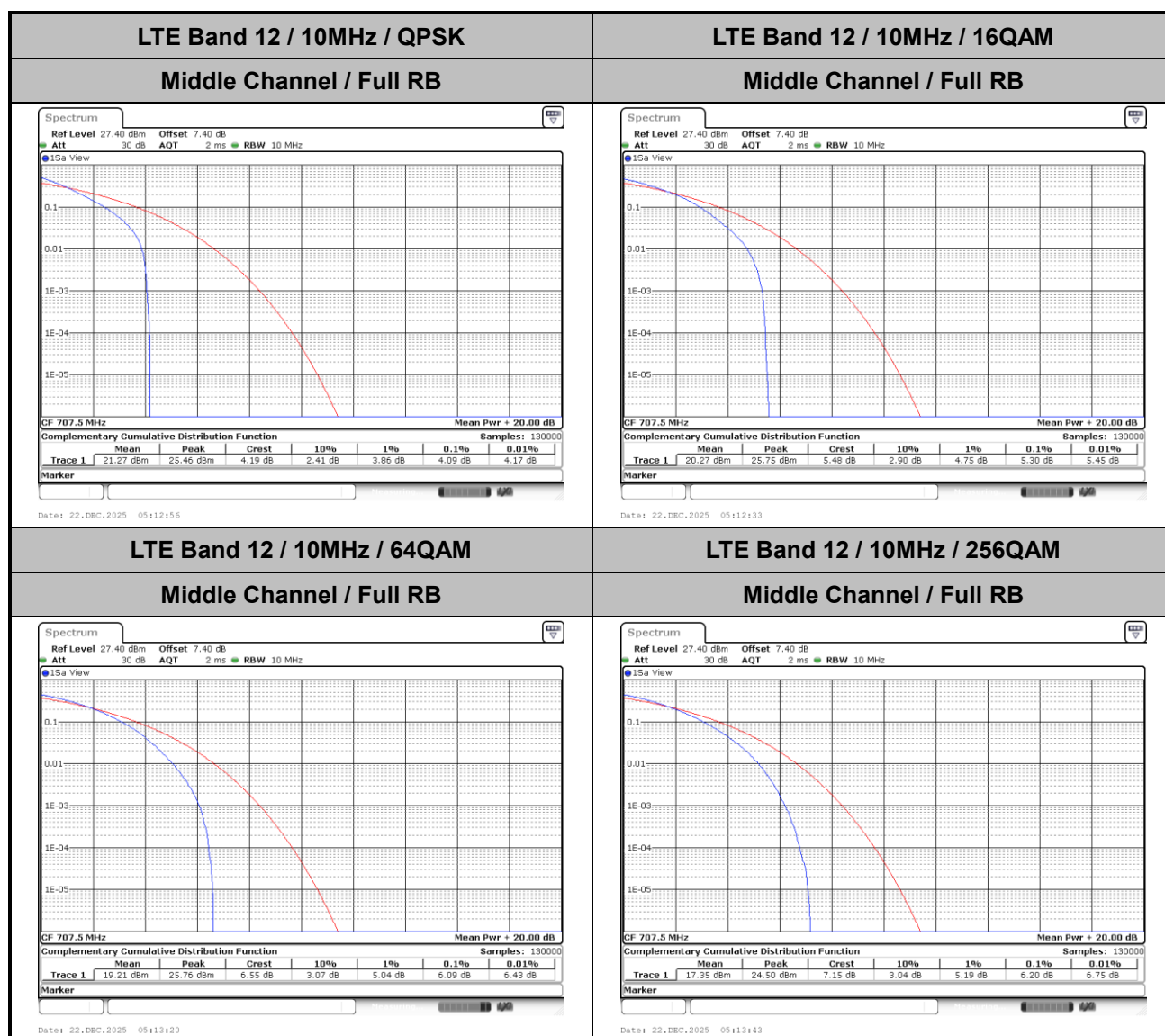
1. Normal Voltage = 3.89 V. ; Minimum Voltage = 3.5 V. ; Maximum Voltage = 4.28 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.



LTE Band 12

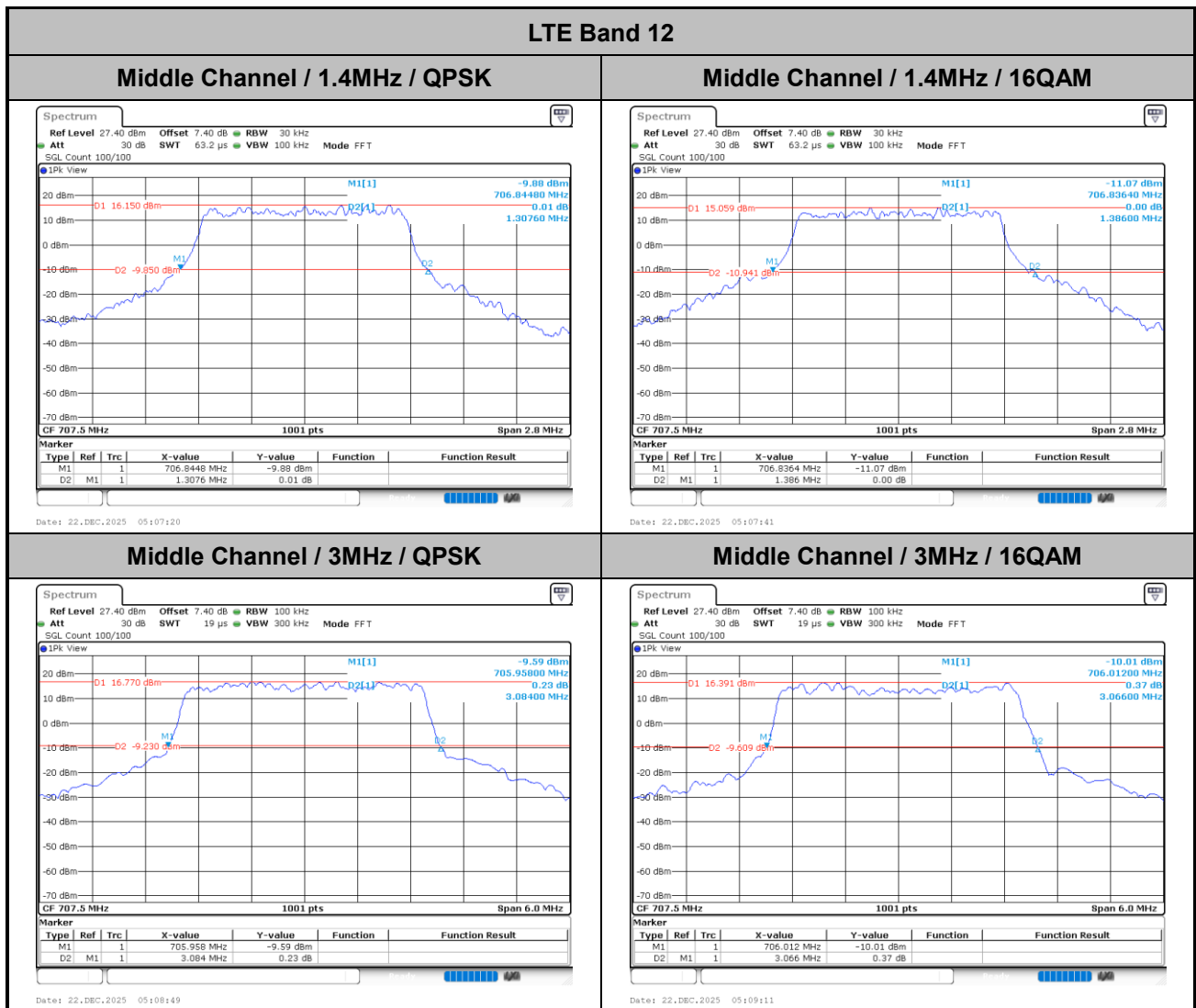
Peak-to-Average Ratio

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	4.09	5.30	6.09	6.20	PASS



**26dB Bandwidth**

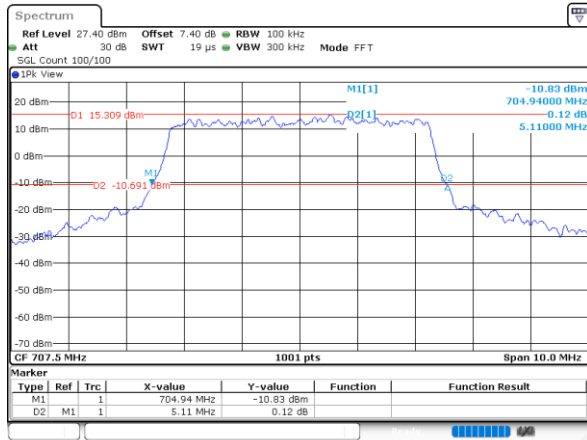
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.30	1.38	3.08	3.06	5.11	4.91	9.98	10.08	-	-	-	-



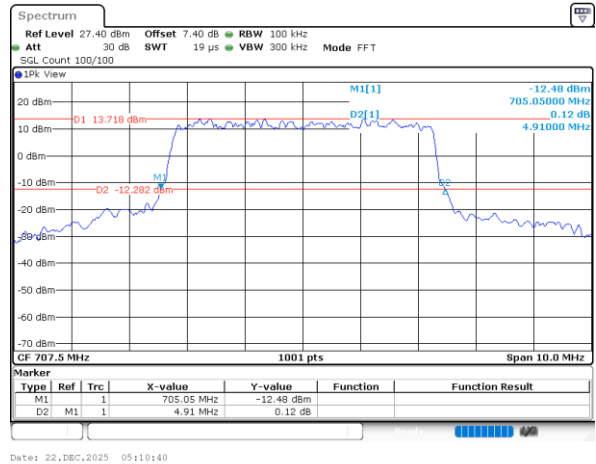


LTE Band 12

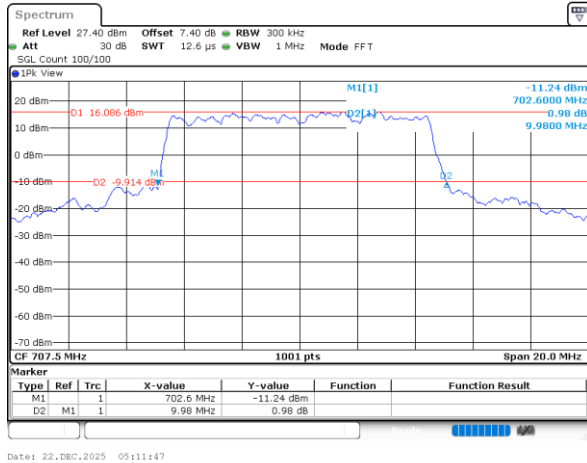
Middle Channel / 5MHz / QPSK



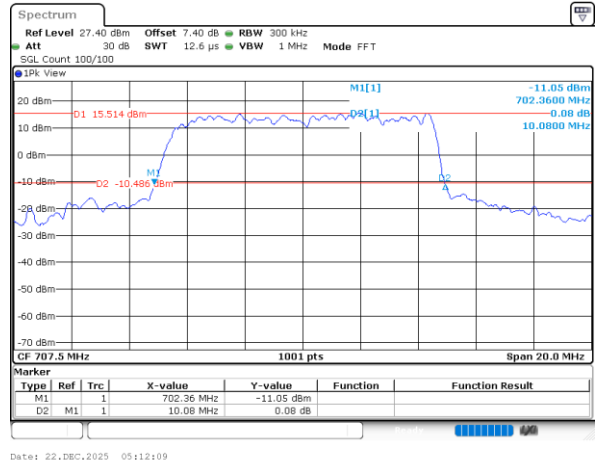
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



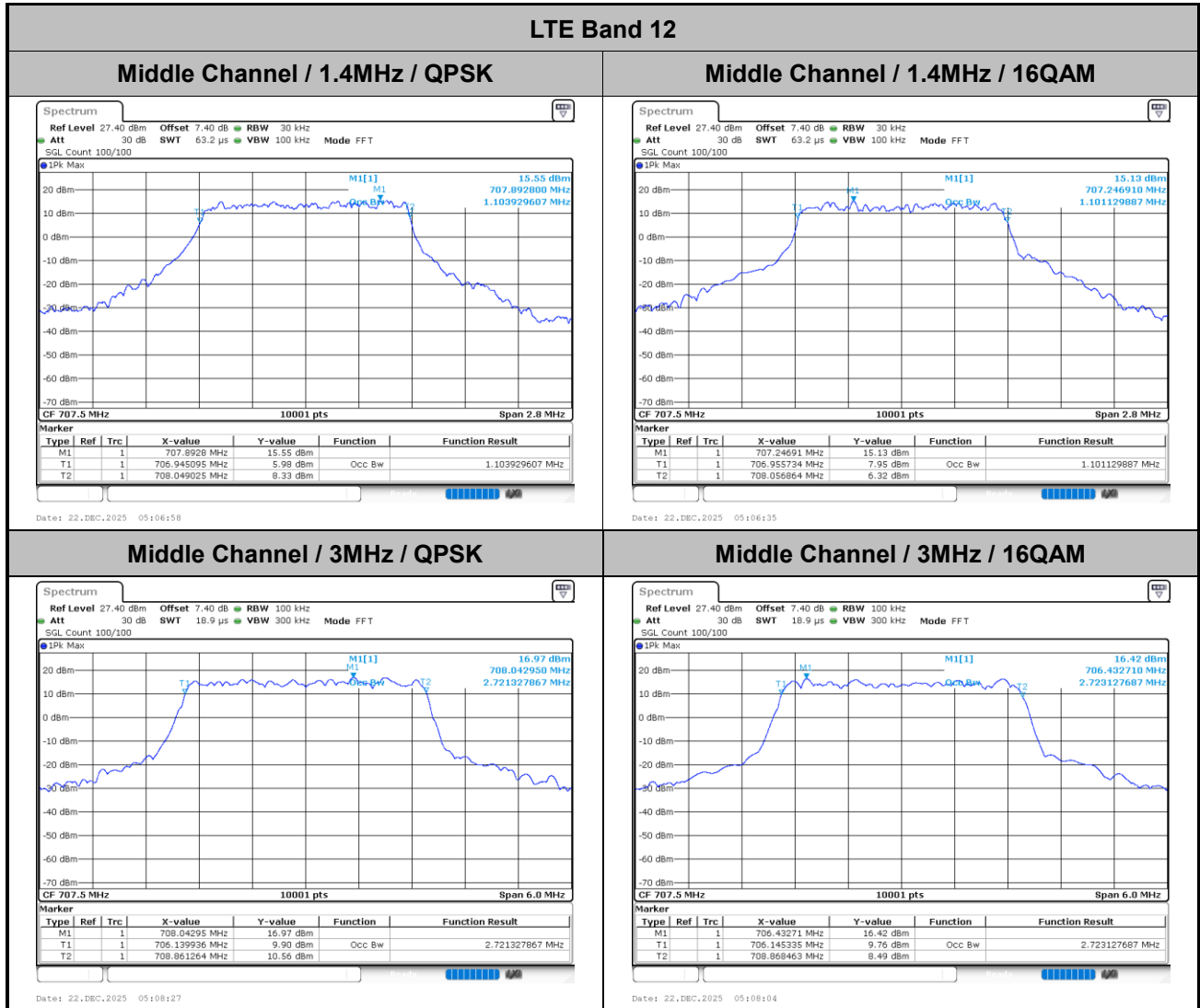
Middle Channel / 10MHz / 16QAM





Occupied Bandwidth

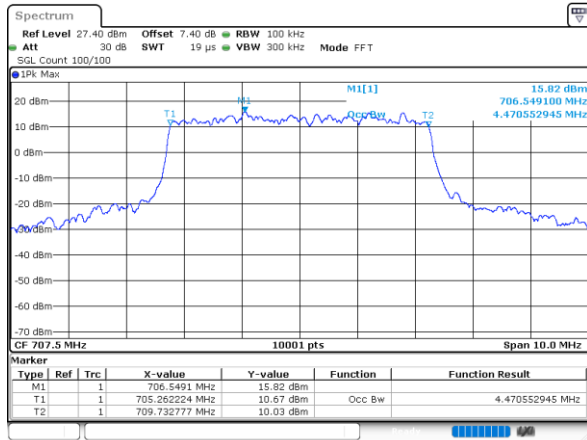
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.10	1.10	2.72	2.72	4.47	4.45	9.05	9.04	-	-	-	-



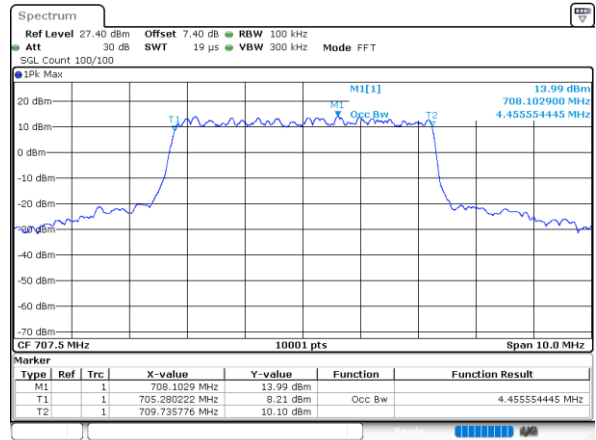


LTE Band 12

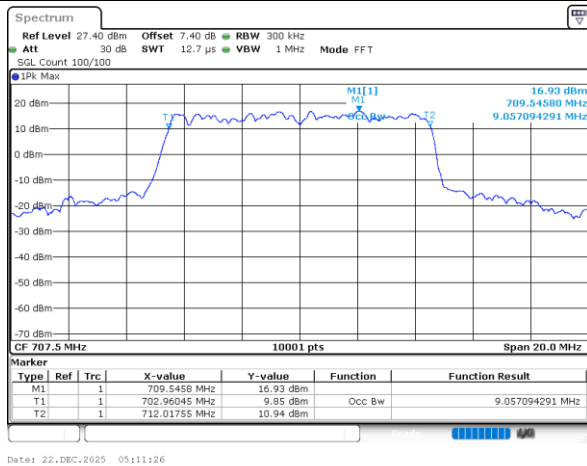
Middle Channel / 5MHz / QPSK



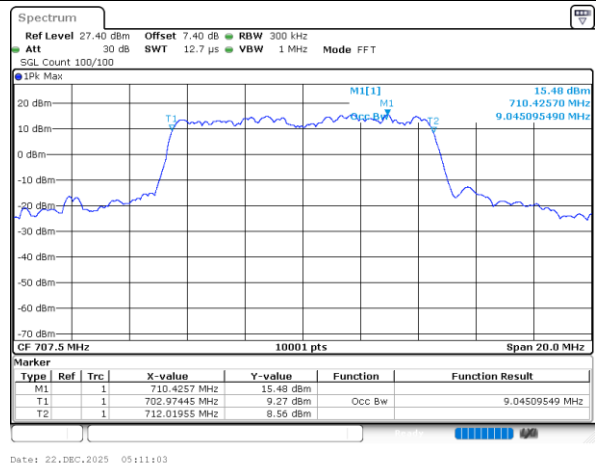
Middle Channel / 5MHz / 16QAM

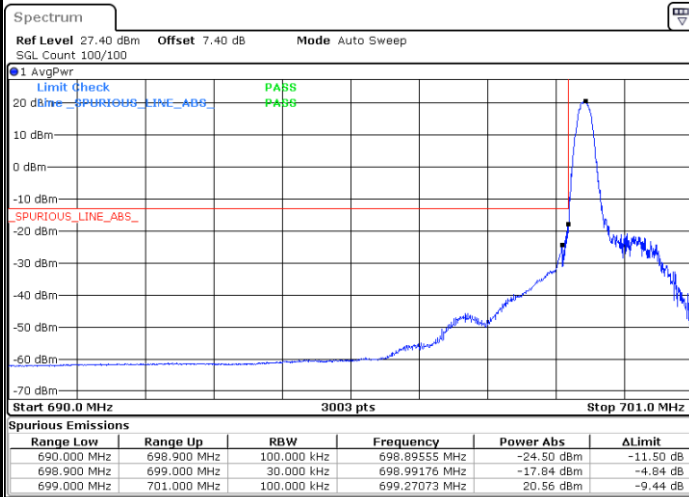
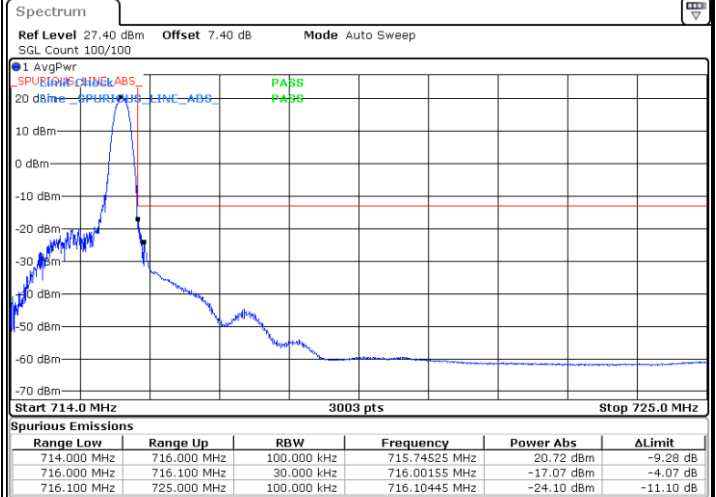
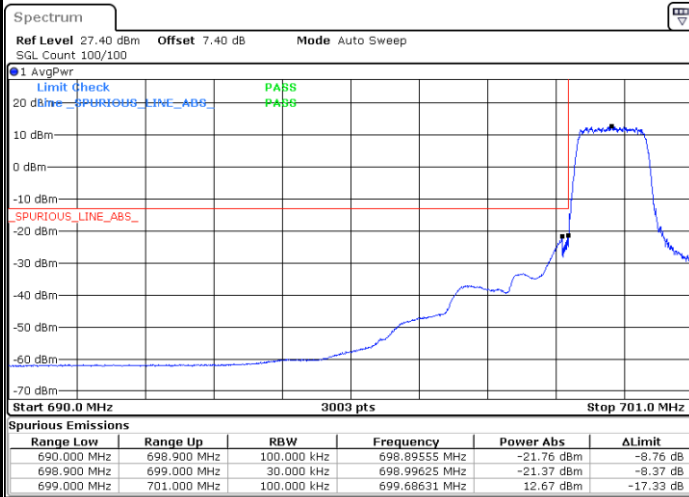
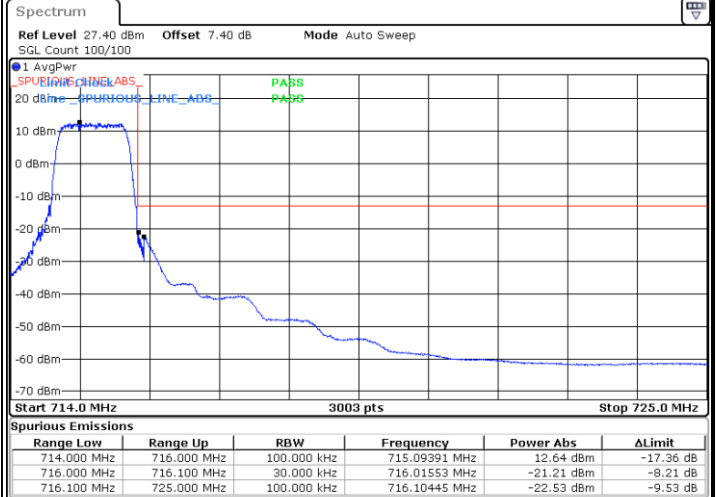


Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

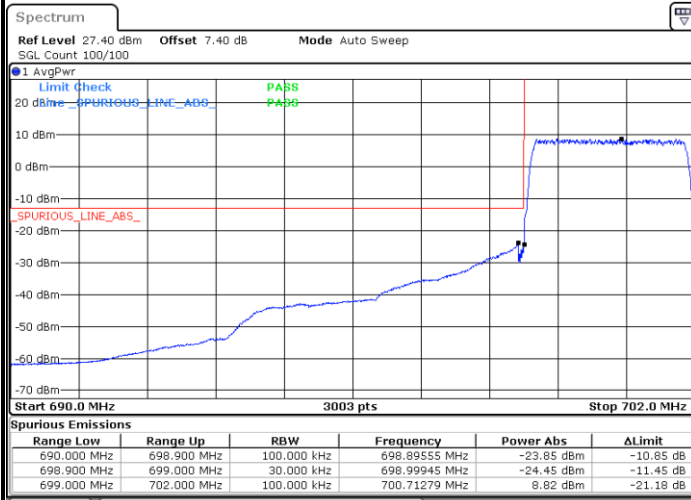


**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

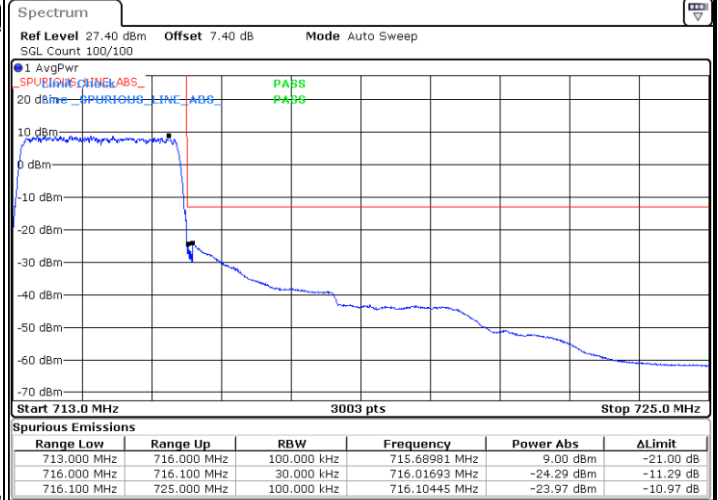


LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB

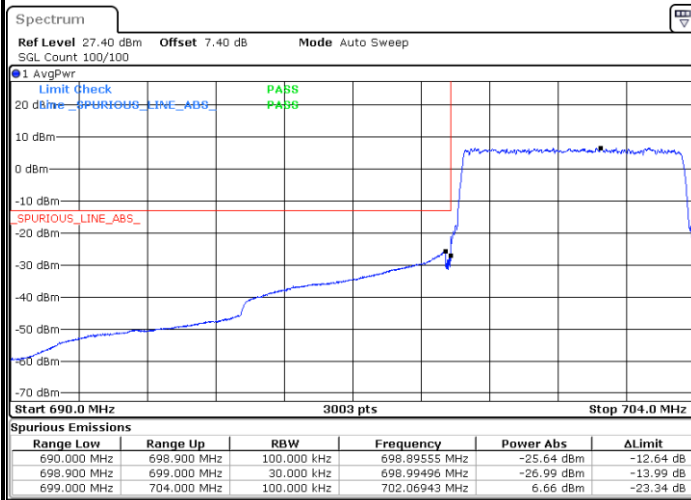


Highest Band Edge / Full RB

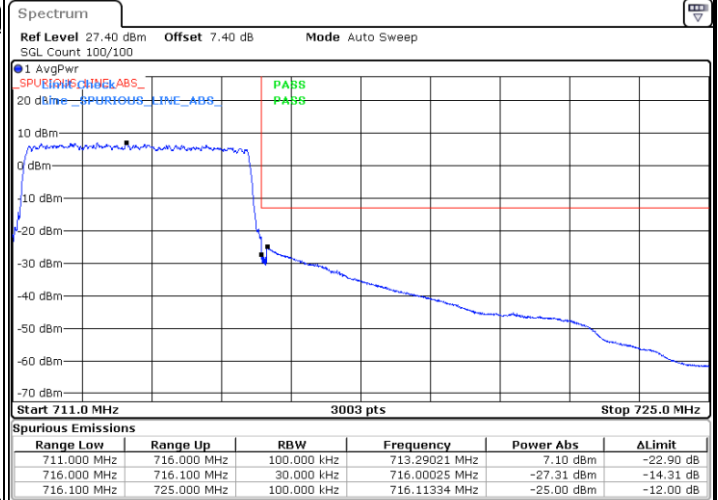


LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB



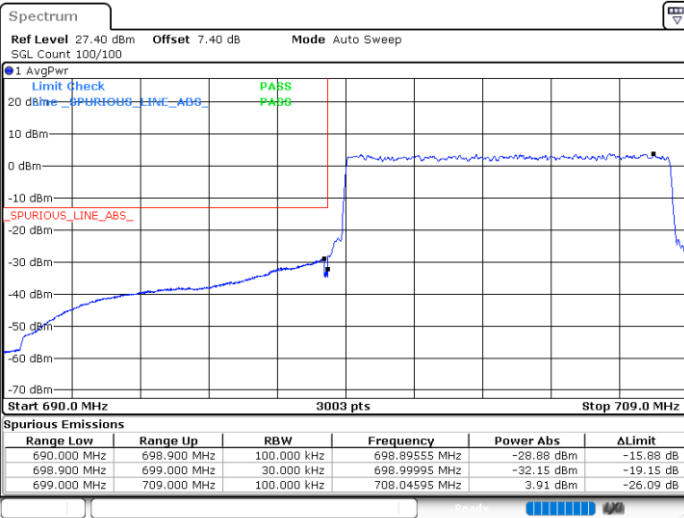
Highest Band Edge / Full RB



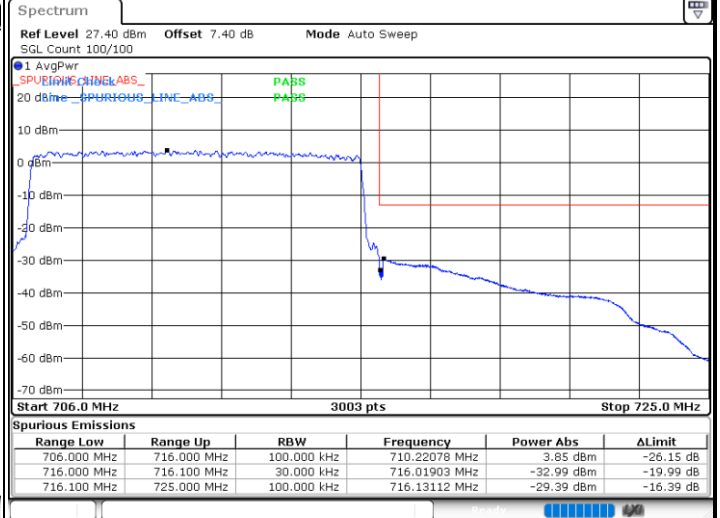


LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

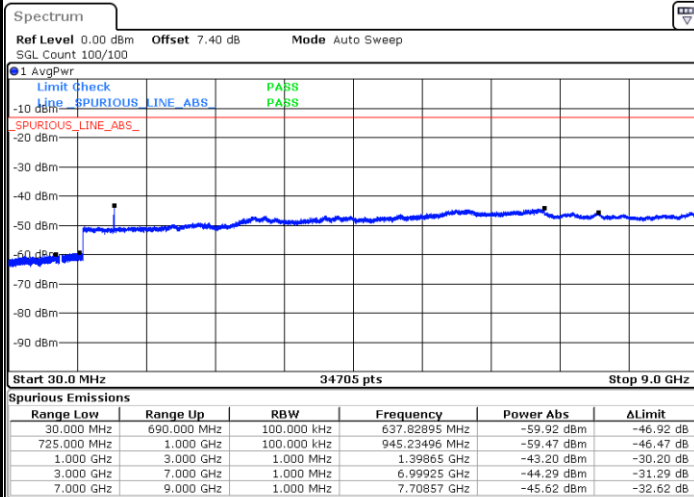




Conducted Spurious Emission

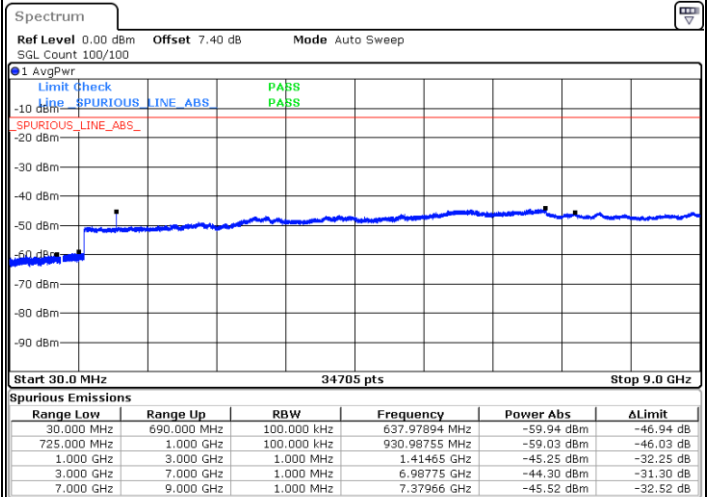
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



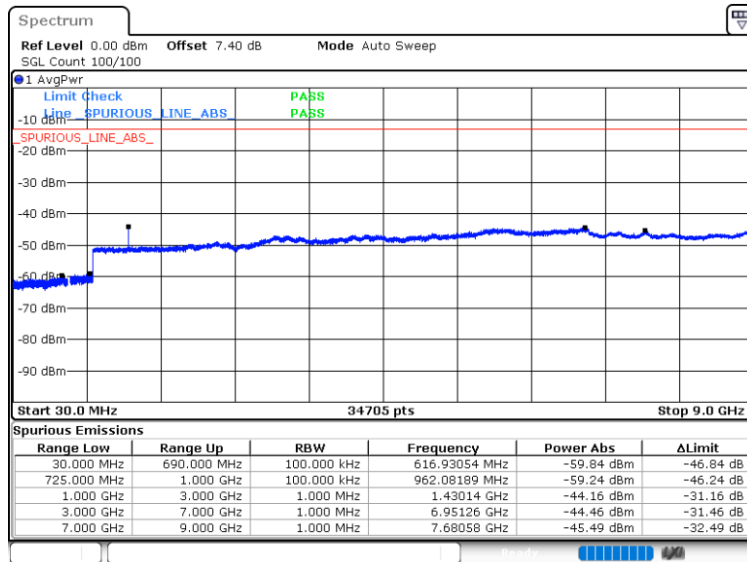
Date: 22.DEC.2025 05:47:44

Middle Channel / QPSK



Date: 22.DEC.2025 05:48:56

Highest Channel / QPSK

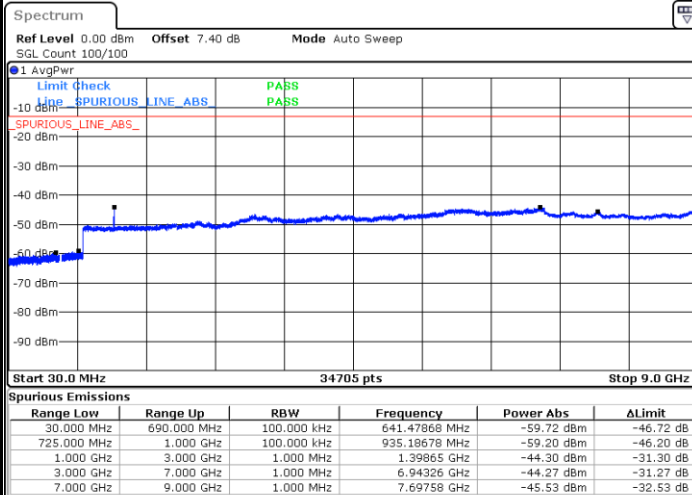


Date: 22.DEC.2025 05:52:14



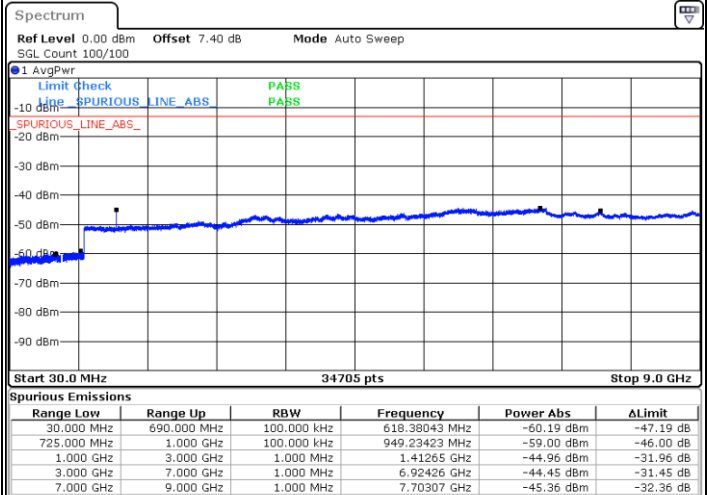
LTE Band 12 / 3MHz

Lowest Channel / QPSK



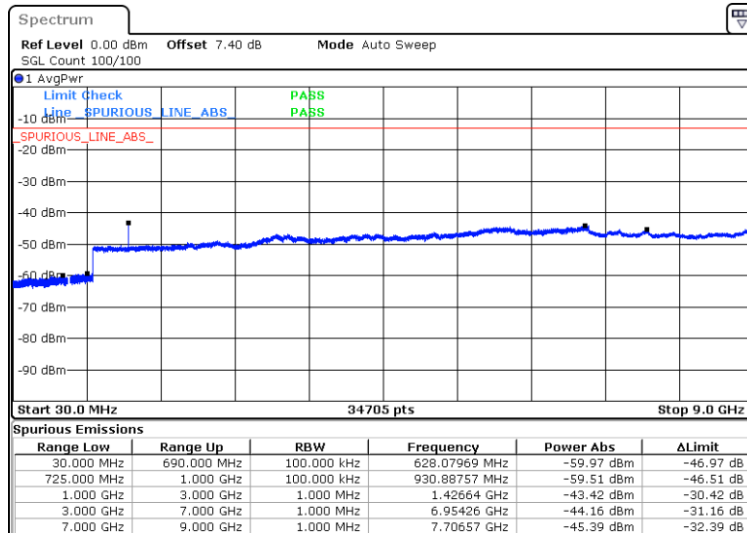
Date: 22.DEC.2025 05:59:44

Middle Channel / QPSK



Date: 22.DEC.2025 06:00:56

Highest Channel / QPSK

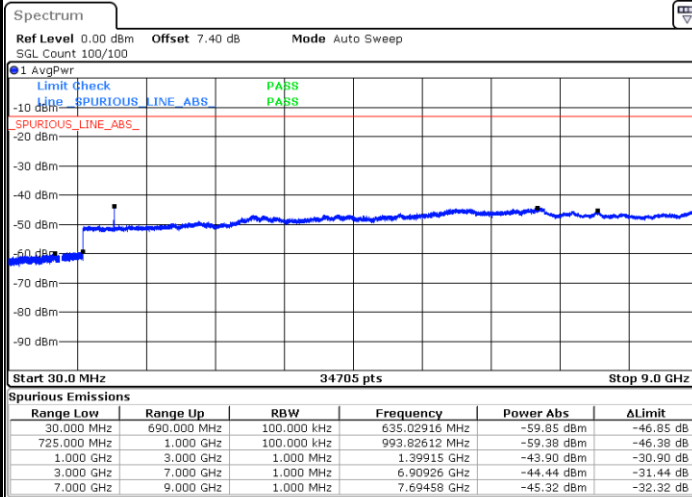


Date: 22.DEC.2025 06:02:08



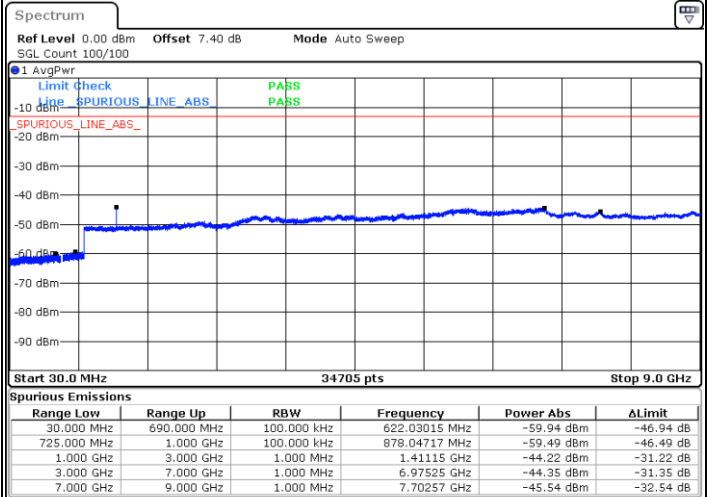
LTE Band 12 / 5MHz

Lowest Channel / QPSK



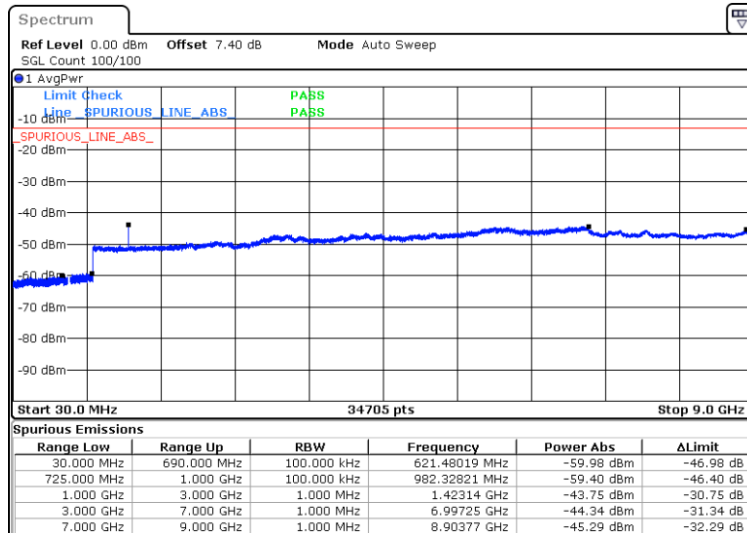
Date: 22.DEC.2025 06:03:21

Middle Channel / QPSK



Date: 22.DEC.2025 06:04:33

Highest Channel / QPSK

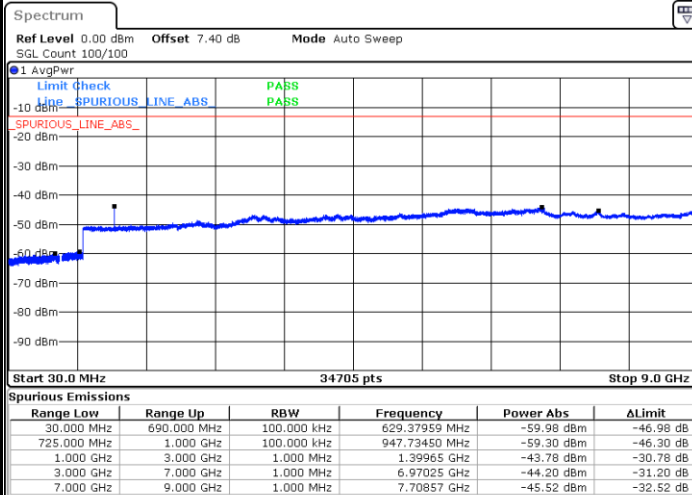


Date: 22.DEC.2025 06:05:45



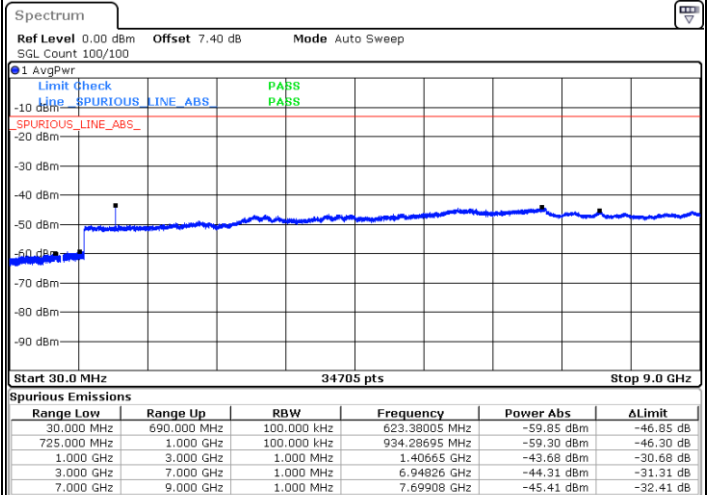
LTE Band 12 / 10MHz

Lowest Channel / QPSK



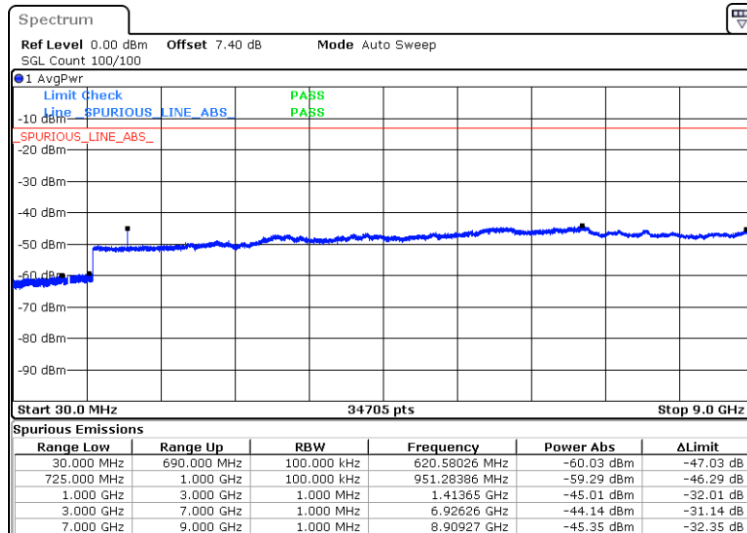
Date: 22.DEC.2025 06:06:59

Middle Channel / QPSK



Date: 22.DEC.2025 06:08:11

Highest Channel / QPSK



Date: 22.DEC.2025 06:09:23

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	0.0098	6.9	Yes	PASS
40	Normal Voltage	0.0123	8.7	Yes	
30	Normal Voltage	0.0088	6.2	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0038	2.7	Yes	
0	Normal Voltage	0.0051	3.6	Yes	
-10	Normal Voltage	0.0119	8.4	Yes	
-20	Normal Voltage	0.0082	5.8	Yes	
-30	Normal Voltage	0.0035	-2.5	Yes	
20	Maximum Voltage	0.0014	-1	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0072	-5.1	Yes	

Note:

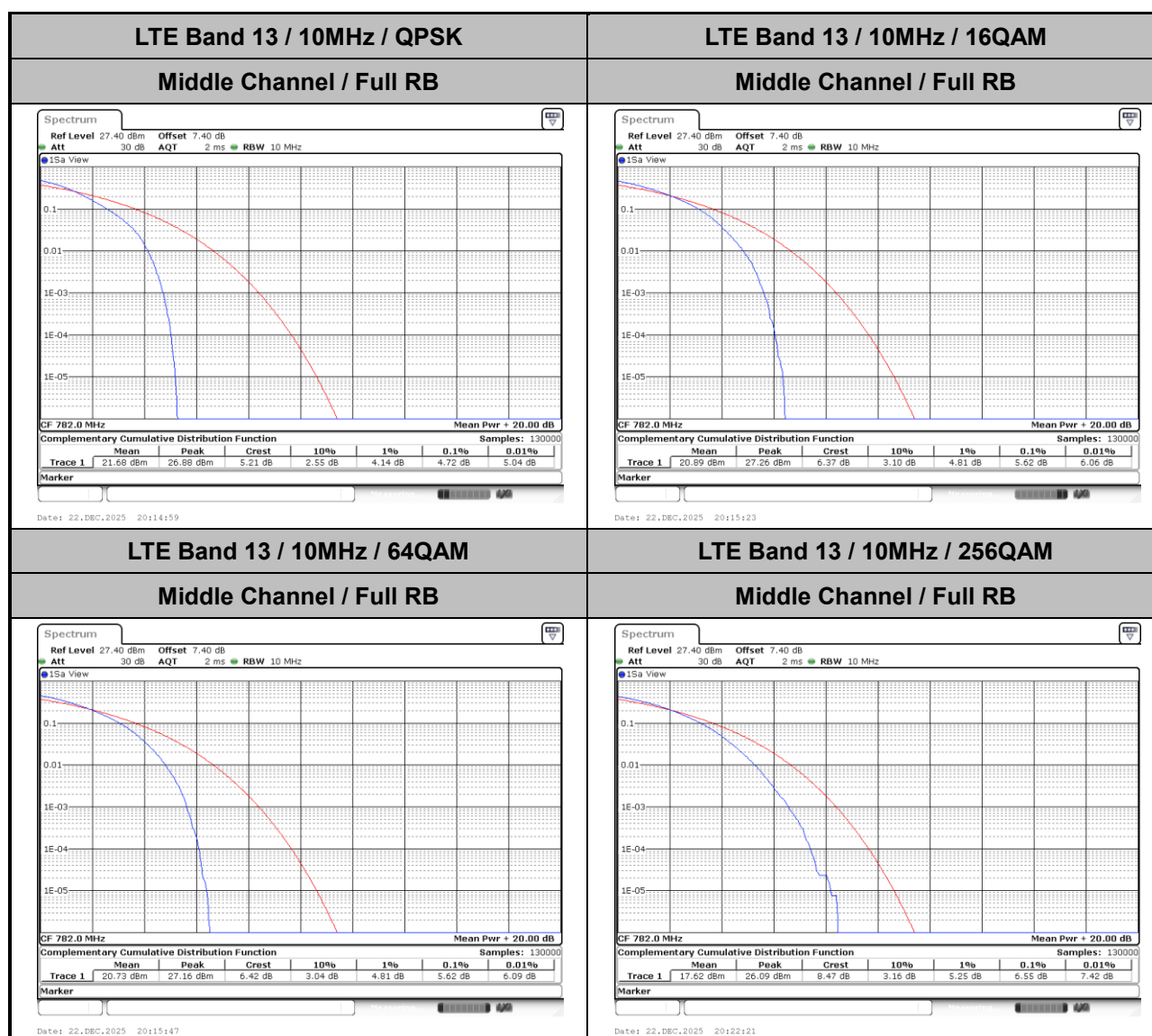
1. Normal Voltage = 3.89 V. ; Minimum Voltage = 3.5 V. ; Maximum Voltage = 4.28 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.



LTE Band 13

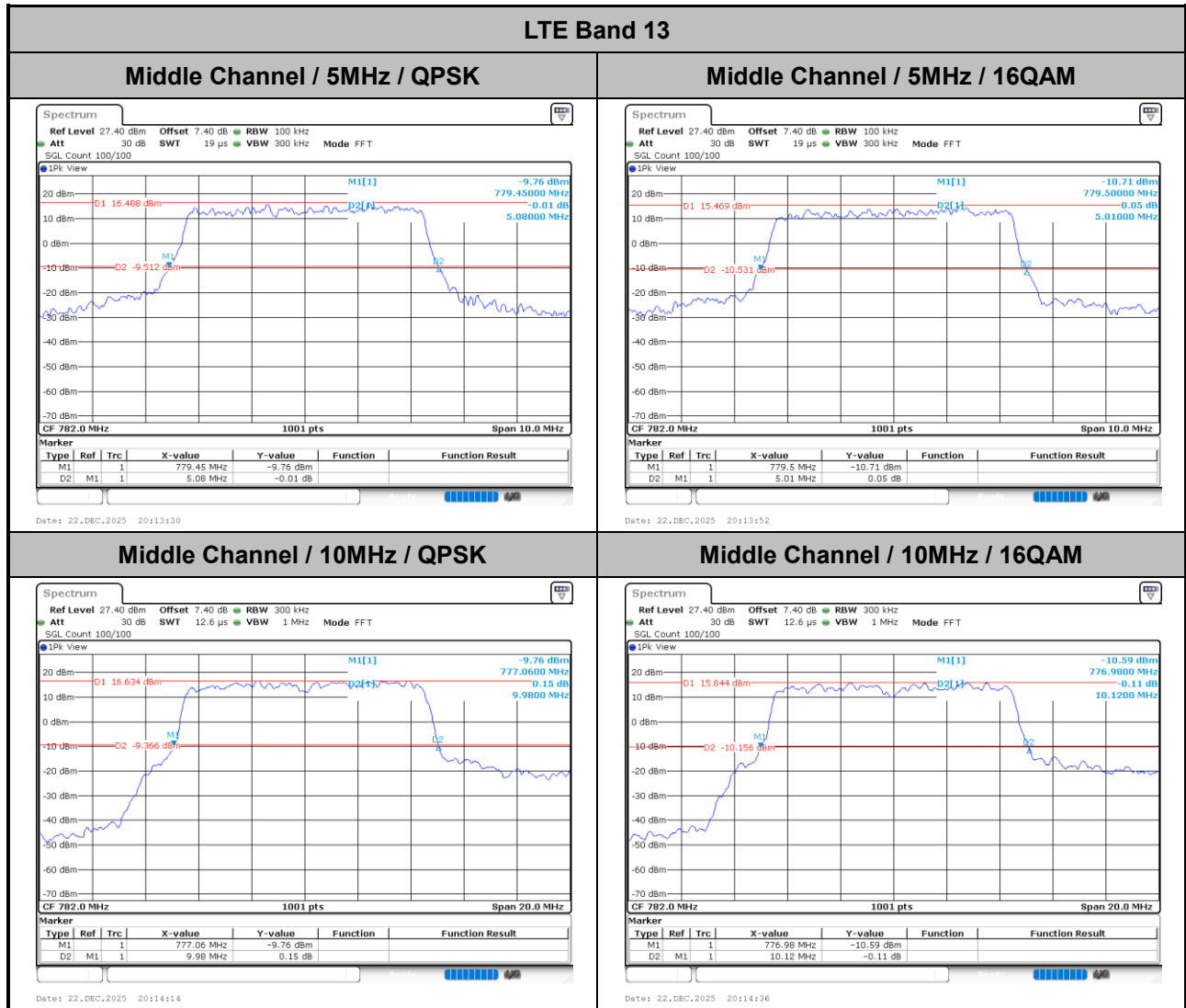
Peak-to-Average Ratio

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	4.72	5.62	5.62	6.55	PASS



**26dB Bandwidth**

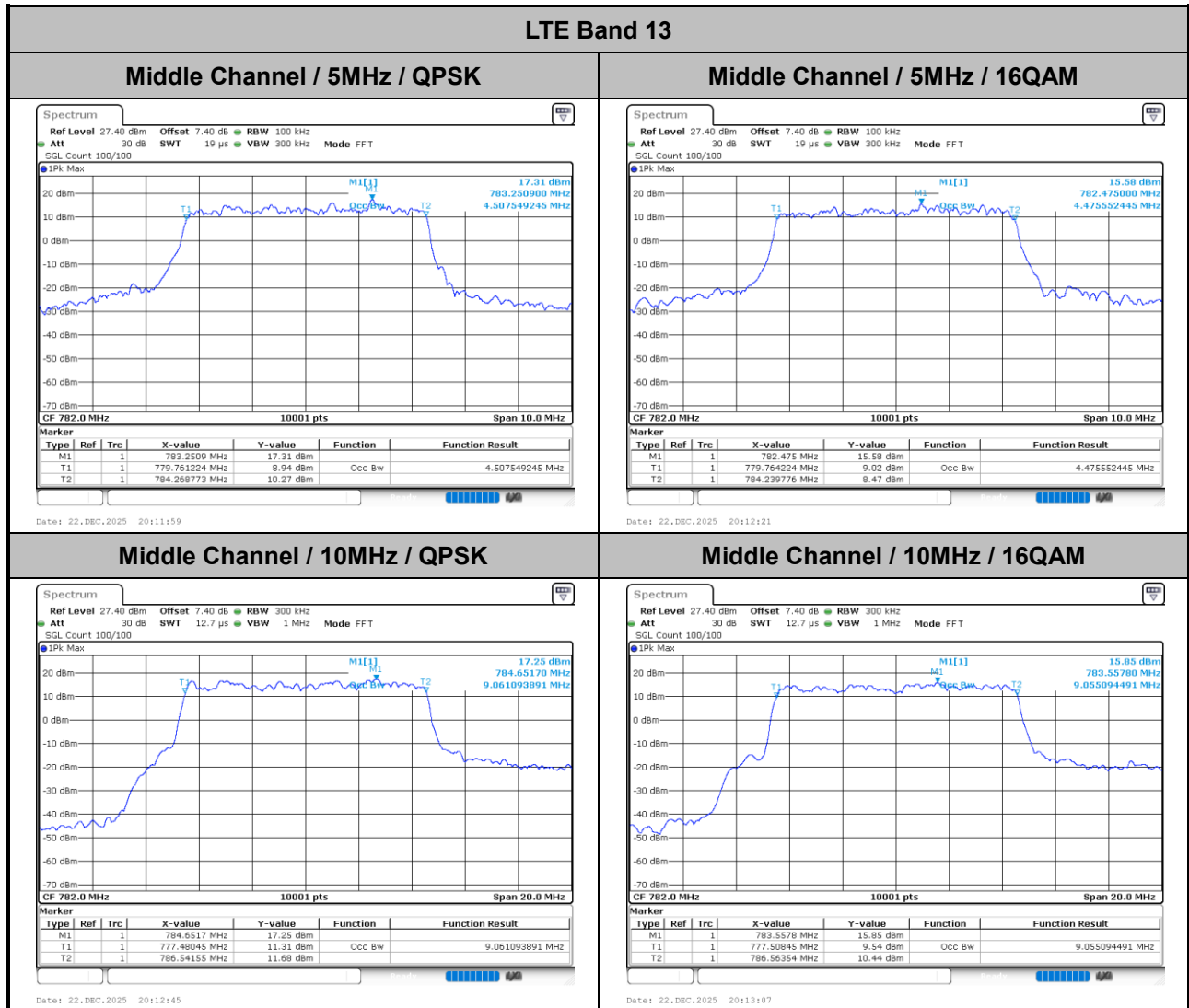
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.08	5.01	9.98	10.12	-	-	-	-





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	-	-	-	-	4.50	4.47	9.06	9.05	-	-	-	-



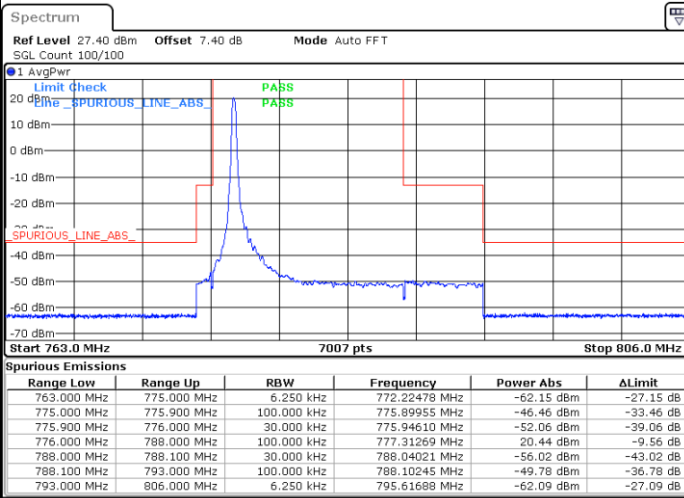


Conducted Band Edge

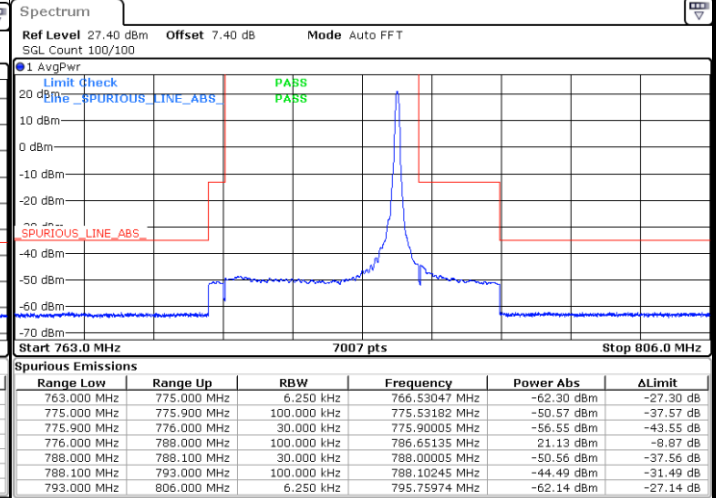
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



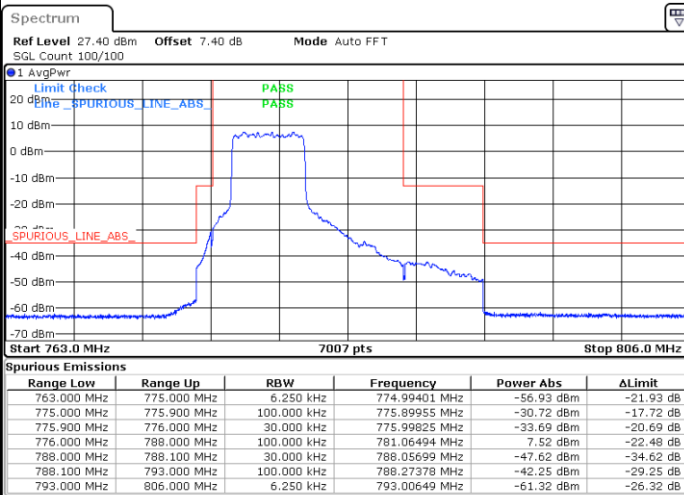
Date: 22.DEC.2025 20:03:36



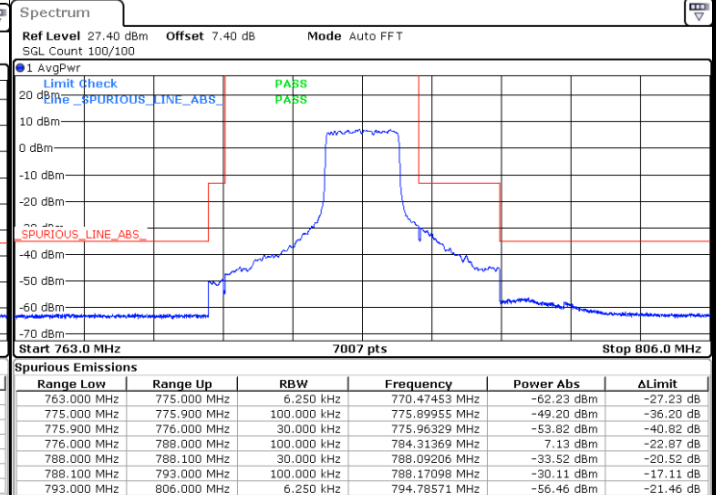
Date: 22.DEC.2025 20:05:41

Lowest Band Edge / Full RB

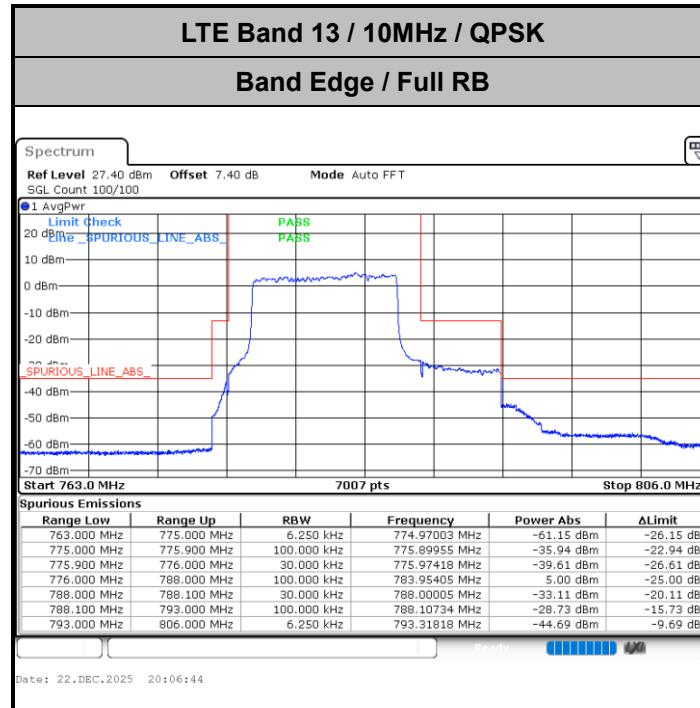
Highest Band Edge / Full RB



Date: 22.DEC.2025 20:02:33



Date: 22.DEC.2025 20:04:39





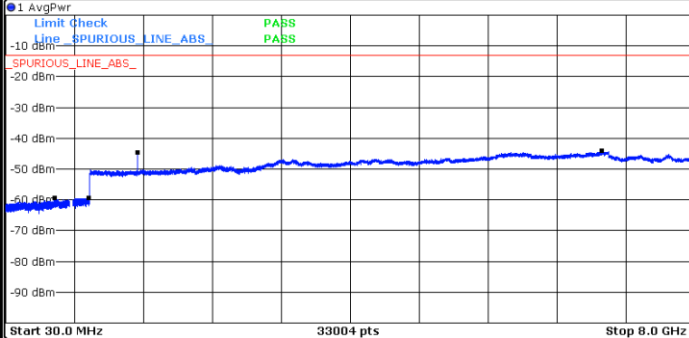
Conducted Spurious Emission

LTE Band 13 / 5MHz

Lowest Channel / QPSK

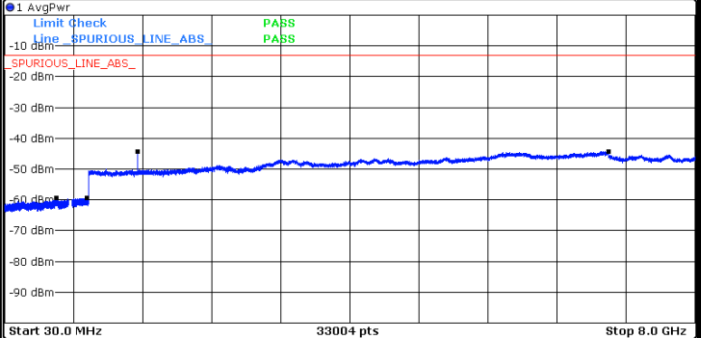
Middle Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 7.40 dB Mode Auto Sweep
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	596.10703 MHz	-59.46 dBm	-46.46 dB
806.000 MHz	1.000 GHz	100.000 kHz	984.16871 MHz	-59.40 dBm	-46.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-44.57 dBm	-31.57 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.92336 GHz	-44.05 dBm	-31.05 dB

Spectrum

Ref Level 0.00 dBm Offset 7.40 dB Mode Auto Sweep
SGL Count 100/100

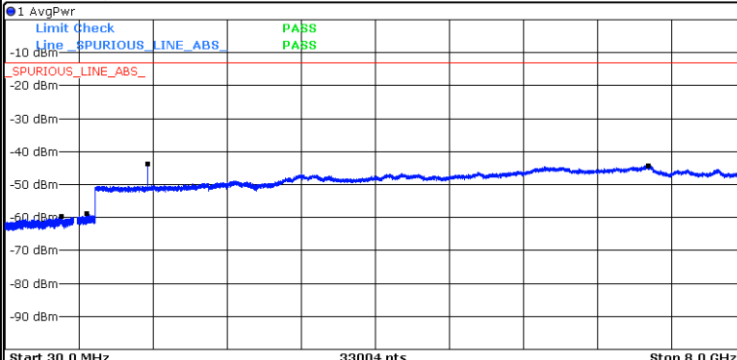
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	627.91711 MHz	-59.42 dBm	-46.42 dB
806.000 MHz	1.000 GHz	100.000 kHz	978.88353 MHz	-59.28 dBm	-46.28 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-44.32 dBm	-31.32 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99835 GHz	-44.35 dBm	-31.35 dB

Date: 22.DEC.2025 20:07:57

Date: 22.DEC.2025 20:09:09

Highest Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 7.40 dB Mode Auto Sweep
SGL Count 100/100

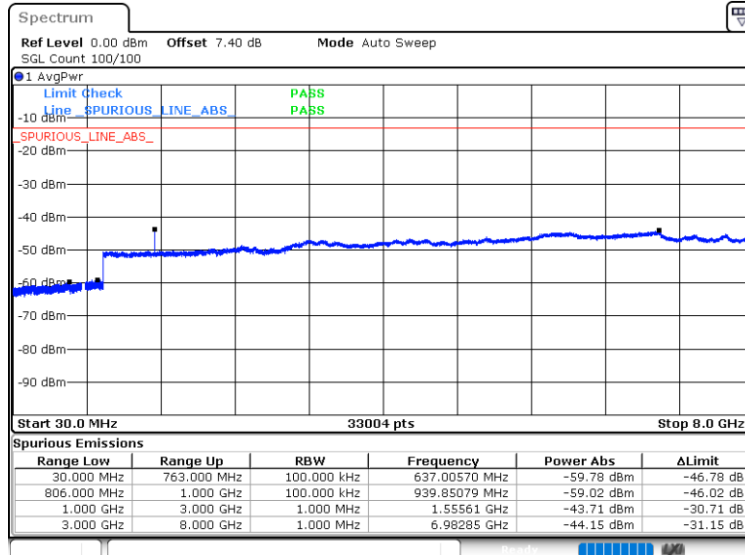
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	631.23982 MHz	-59.73 dBm	-46.73 dB
806.000 MHz	1.000 GHz	100.000 kHz	912.16421 MHz	-58.87 dBm	-45.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-43.66 dBm	-30.66 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.94596 GHz	-44.30 dBm	-31.30 dB

Date: 22.DEC.2025 20:10:21



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 22.DEC.2025 20:11:34

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	0.0035	2.7	Yes	PASS
40	Normal Voltage	0.0143	11.2	Yes	
30	Normal Voltage	0.0006	0.5	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0091	7.1	Yes	
0	Normal Voltage	0.0018	1.4	Yes	
-10	Normal Voltage	0.0042	3.3	Yes	
-20	Normal Voltage	0.0095	7.4	Yes	
-30	Normal Voltage	0.0028	-2.2	Yes	
20	Maximum Voltage	0.0058	4.5	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0028	2.2	Yes	

Note:

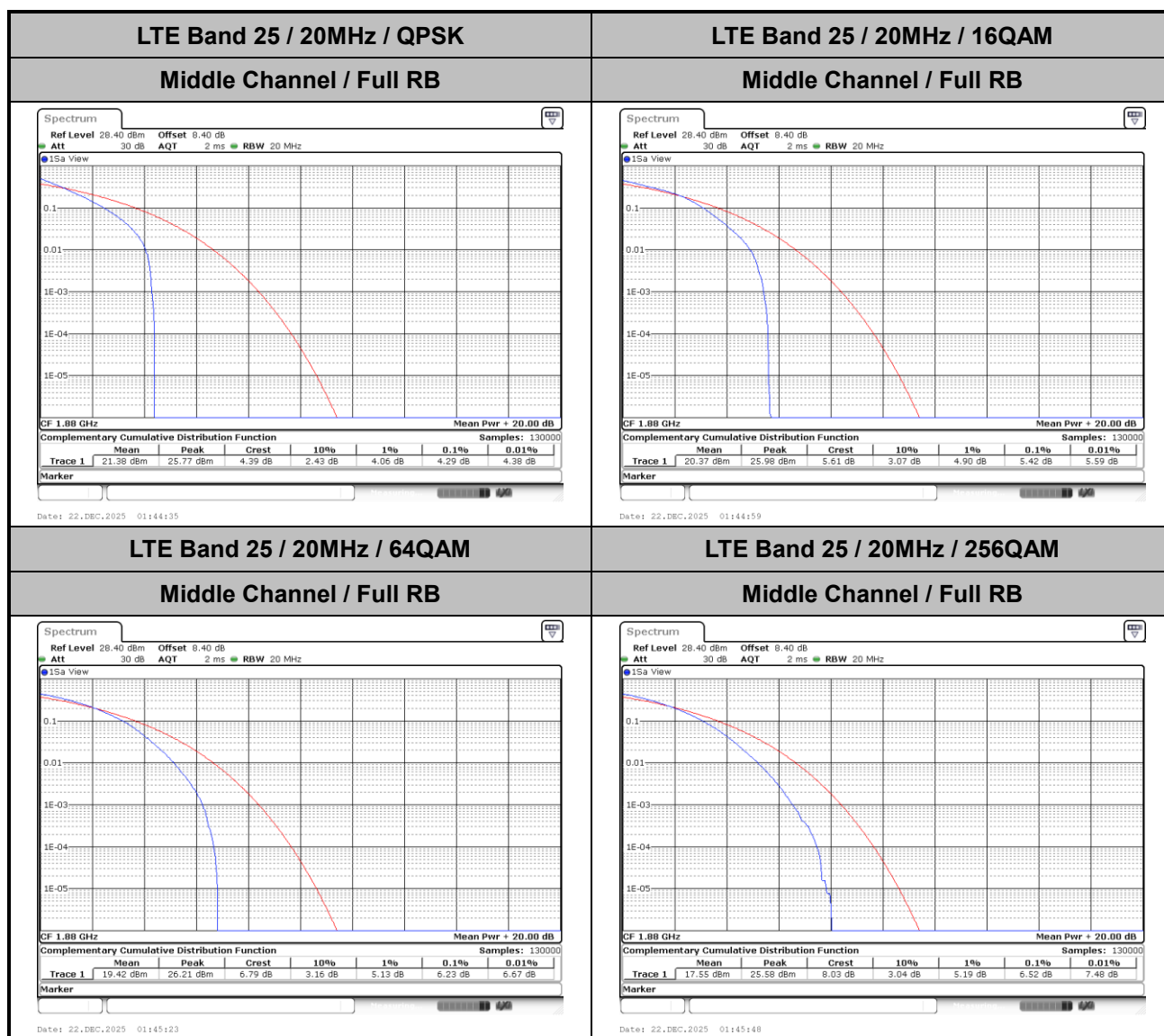
1. Normal Voltage = 3.89 V. ; Minimum Voltage = 3.5 V. ; Maximum Voltage = 4.28 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.



LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.29	5.42	6.23	6.52	PASS





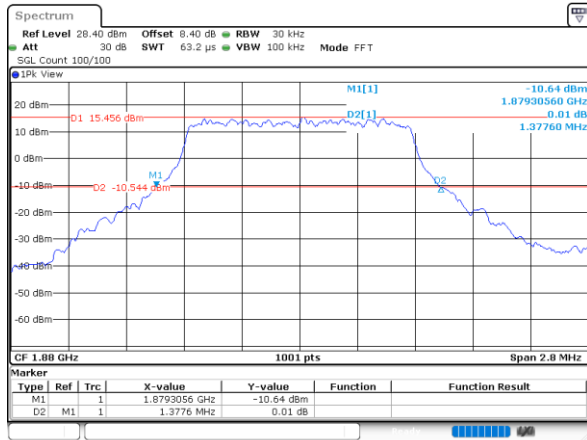
26dB Bandwidth

Mode	LTE Band 25 : 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	1.37	1.36	3.08	3.09	5.12	5.05	10.04	9.82	14.88	14.67	19.32	19.44

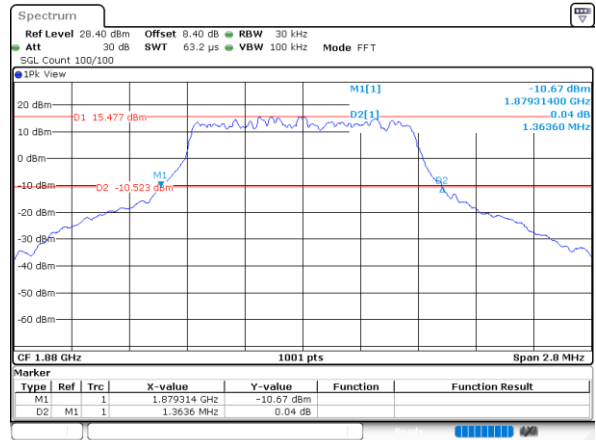


LTE Band 25

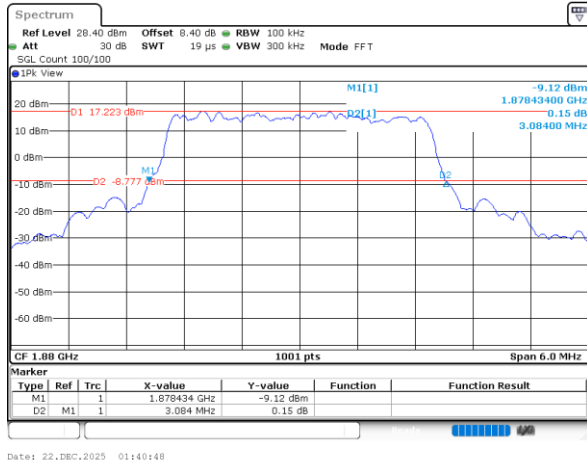
Middle Channel / 1.4MHz / QPSK



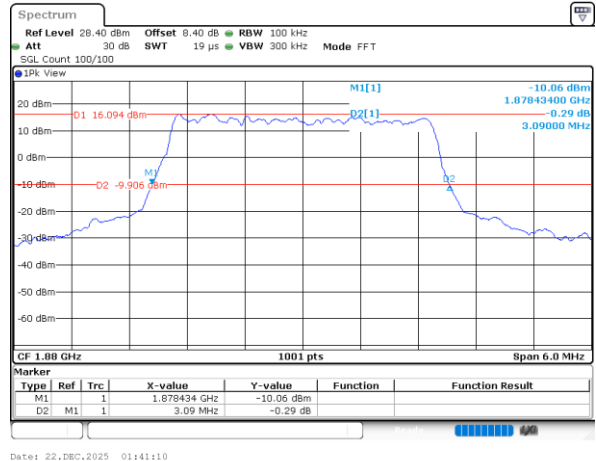
Middle Channel / 1.4MHz / 16QAM



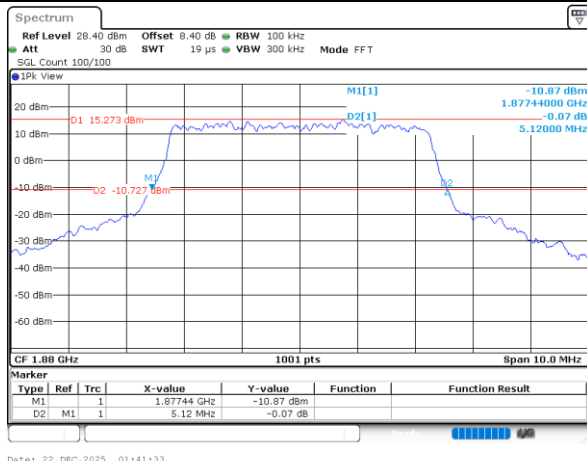
Middle Channel / 3MHz / QPSK



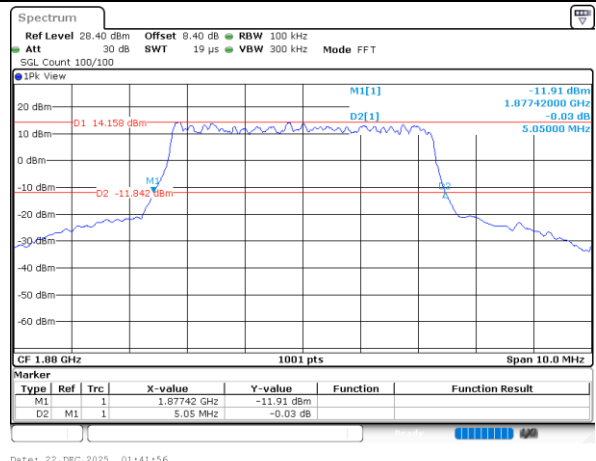
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



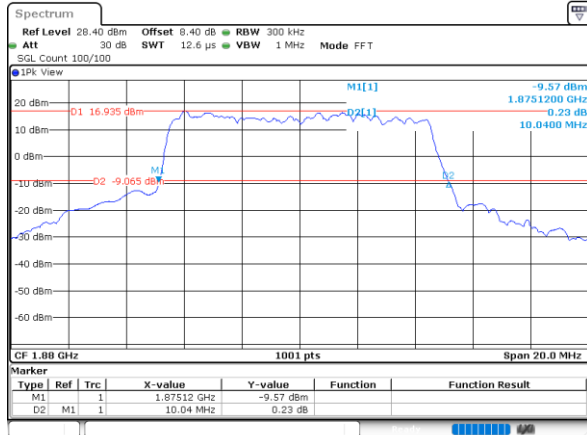
Middle Channel / 5MHz / 16QAM



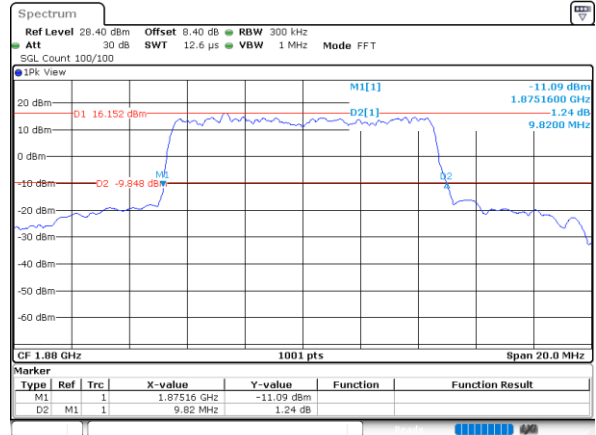


LTE Band 25

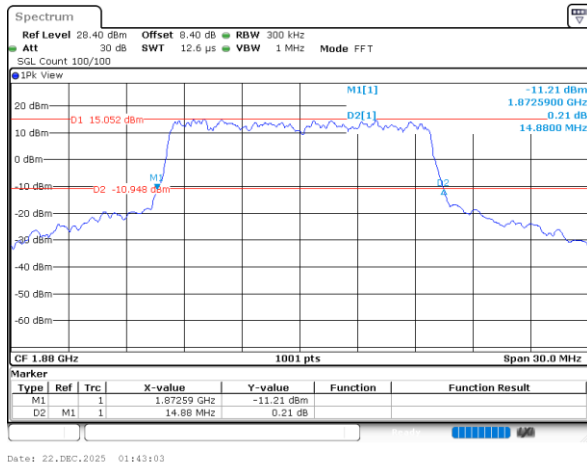
Middle Channel / 10MHz / QPSK



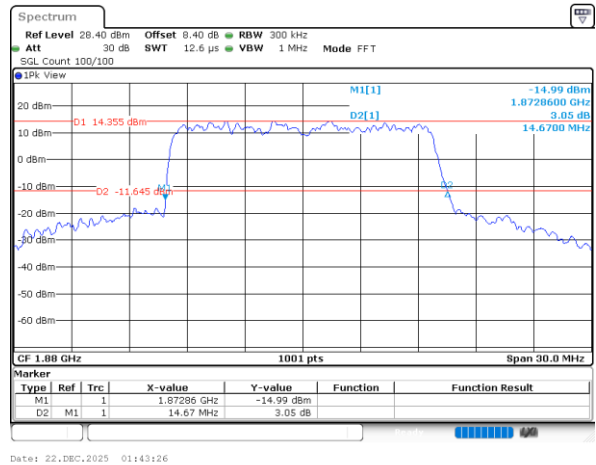
Middle Channel / 10MHz / 16QAM



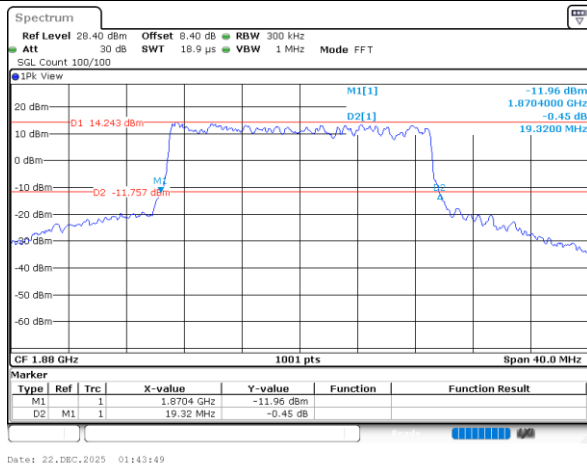
Middle Channel / 15MHz / QPSK



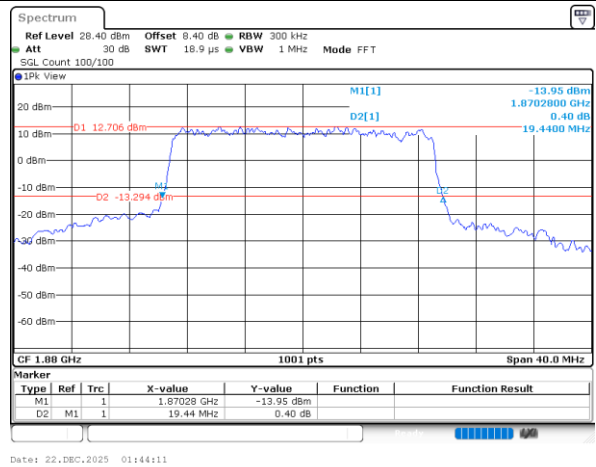
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM





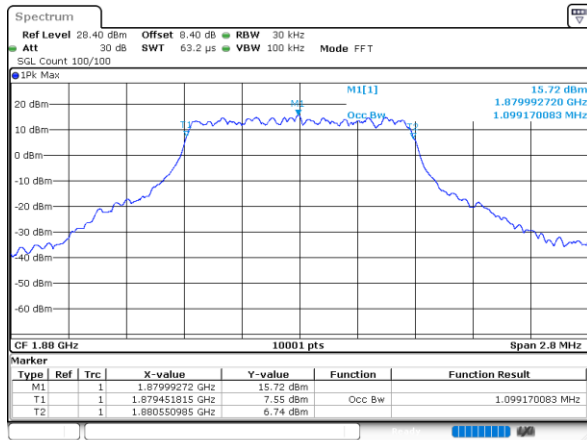
Occupied Bandwidth

Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.73	2.71	4.49	4.49	9.02	9.04	13.52	13.47	17.85	17.88

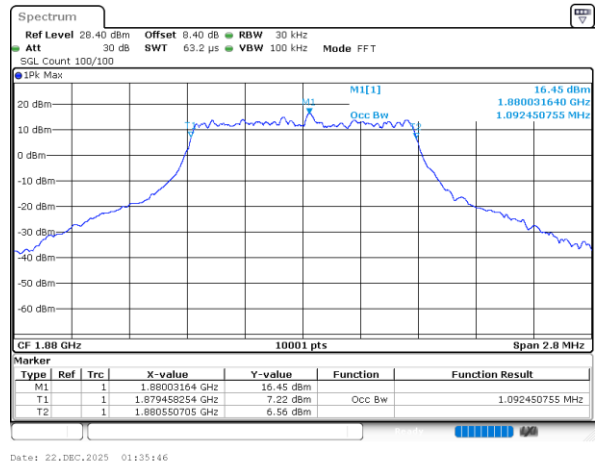


LTE Band 25

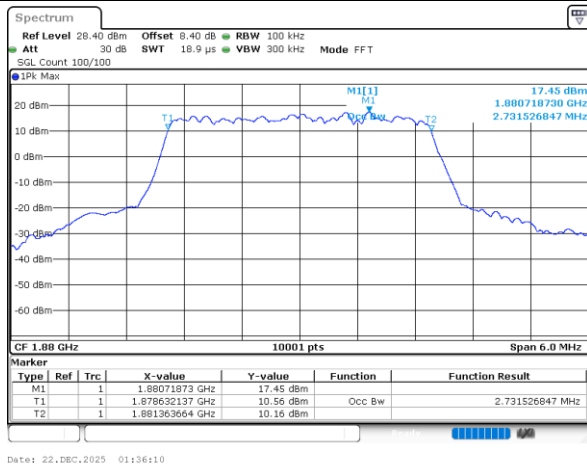
Middle Channel / 1.4MHz / QPSK



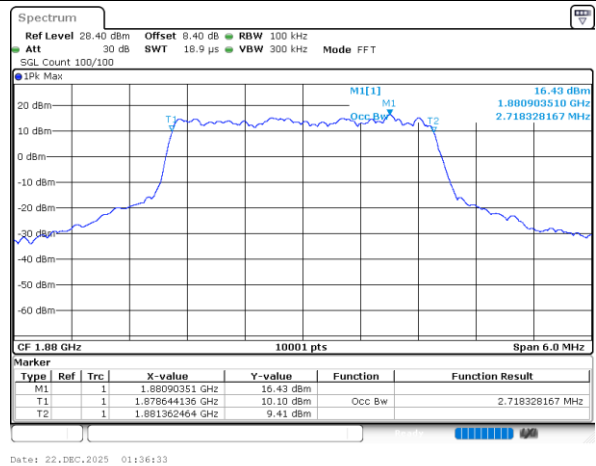
Middle Channel / 1.4MHz / 16QAM



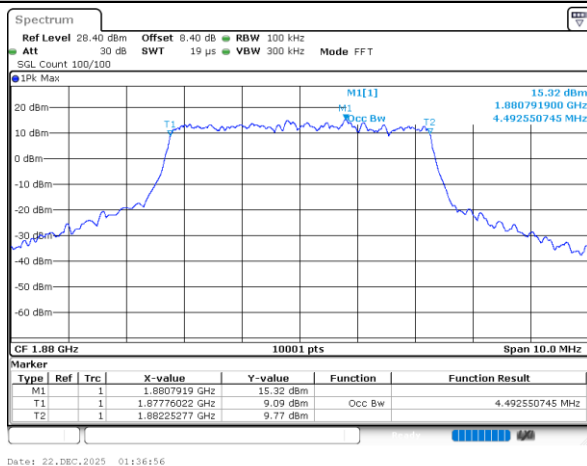
Middle Channel / 3MHz / QPSK



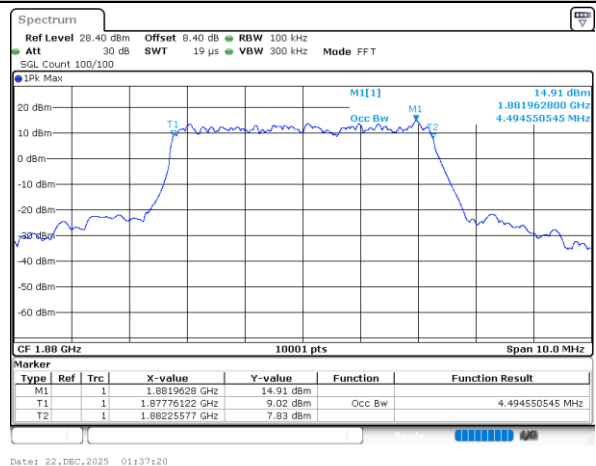
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



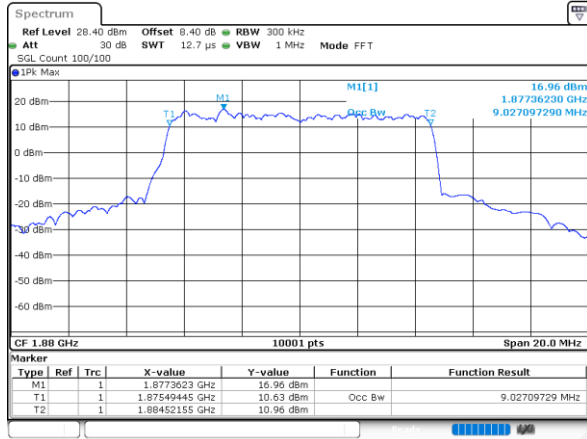
Middle Channel / 5MHz / 16QAM



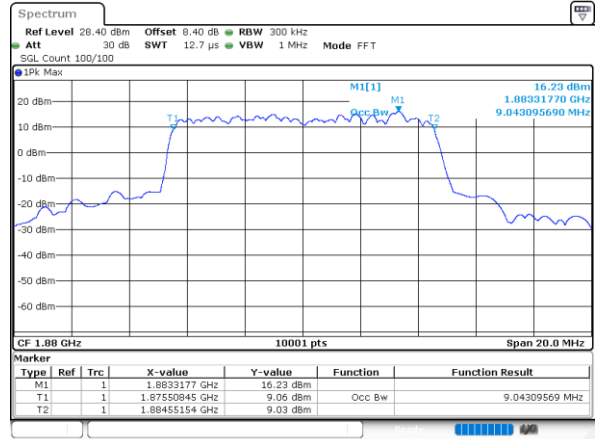


LTE Band 25

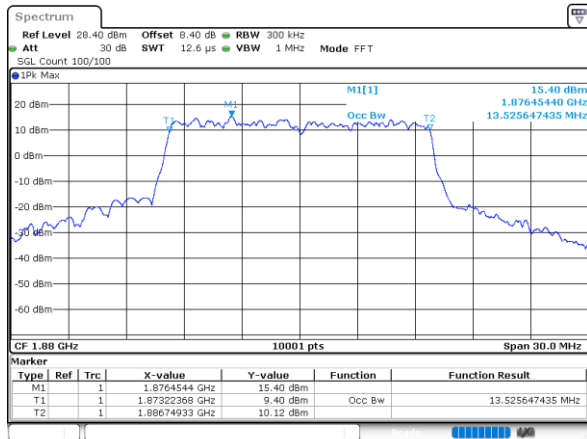
Middle Channel / 10MHz / QPSK



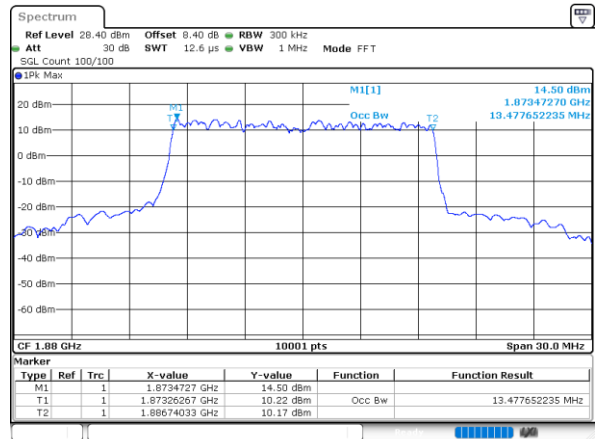
Middle Channel / 10MHz / 16QAM



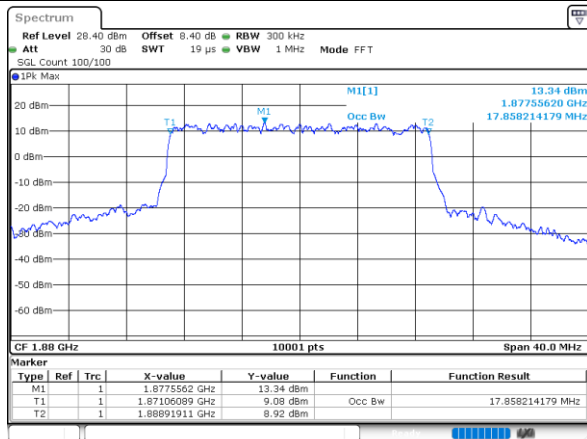
Middle Channel / 15MHz / QPSK



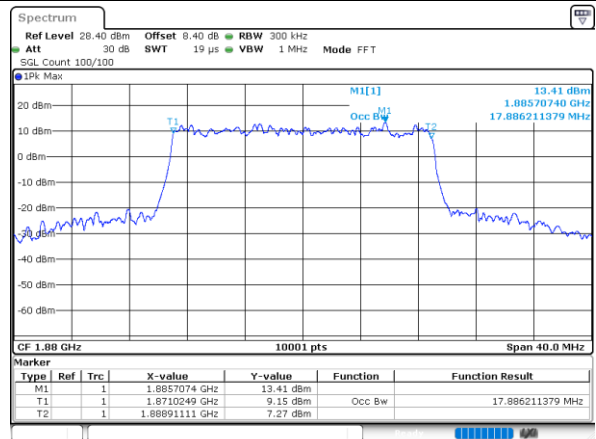
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

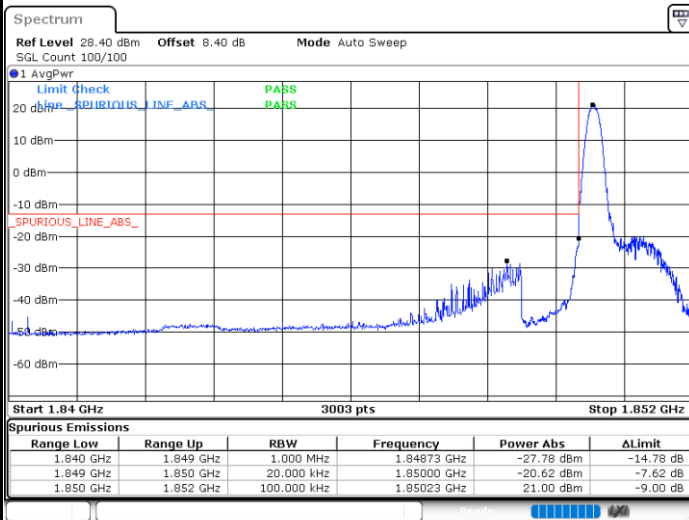




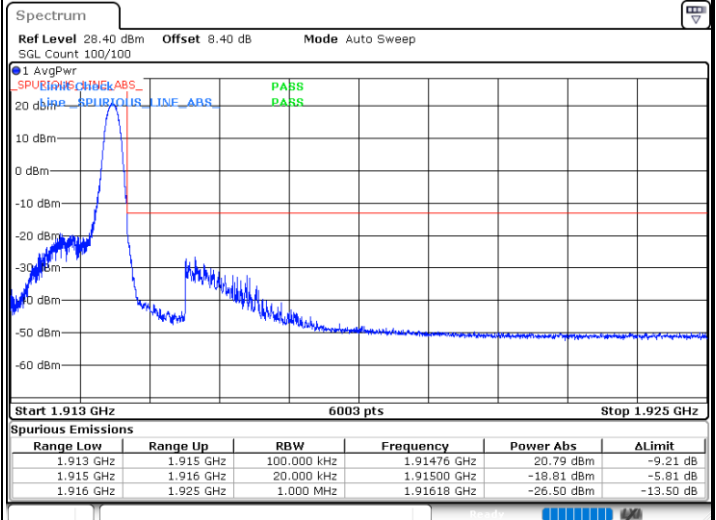
Conducted Band Edge

LTE Band 25 / 1.4MHz / QPSK

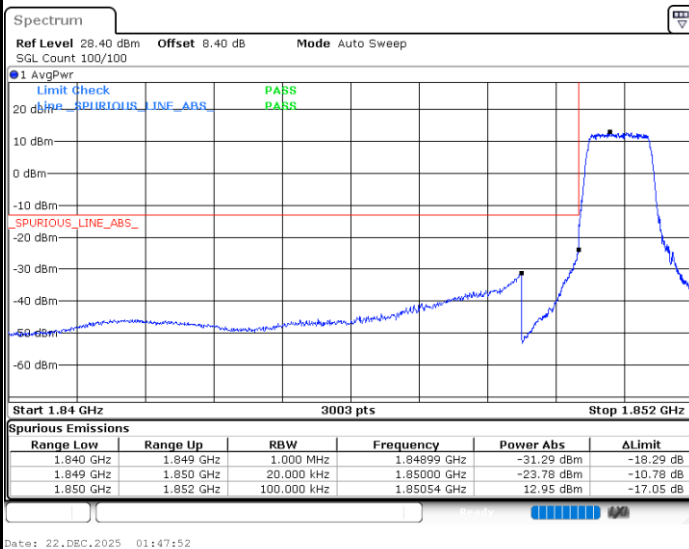
Lowest Band Edge / 1RB



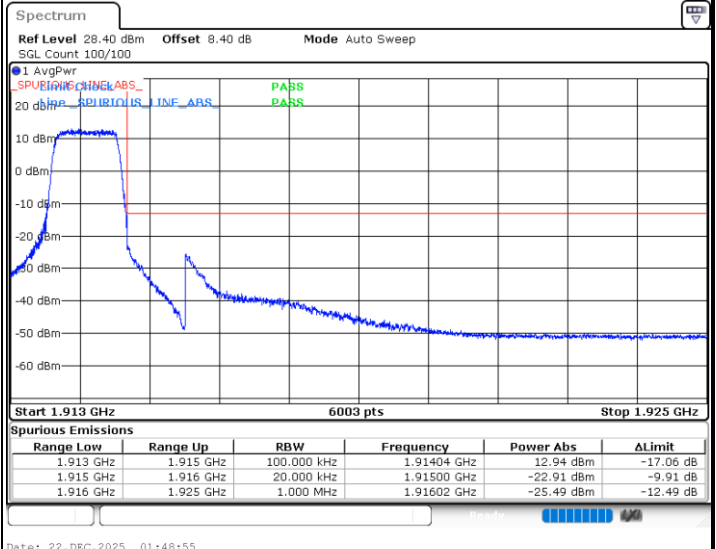
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



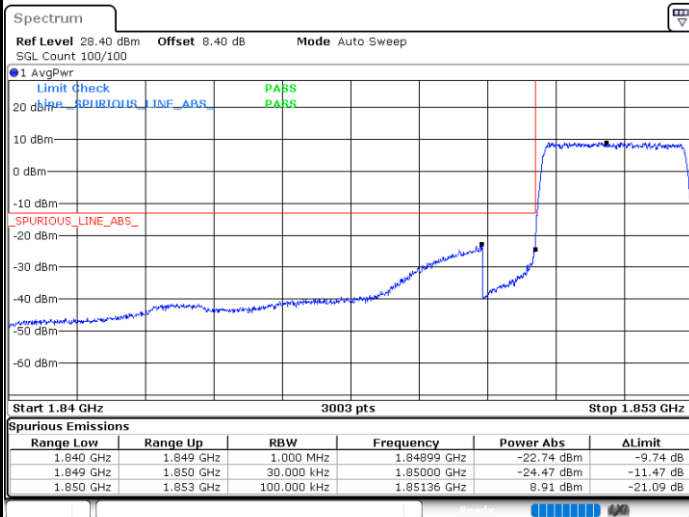
Highest Band Edge / Full RB



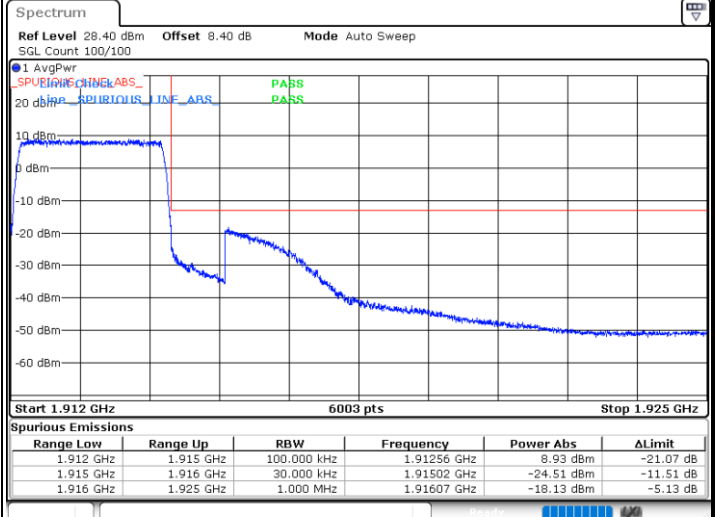


LTE Band 25 / 3MHz / QPSK

Lowest Band Edge / Full RB

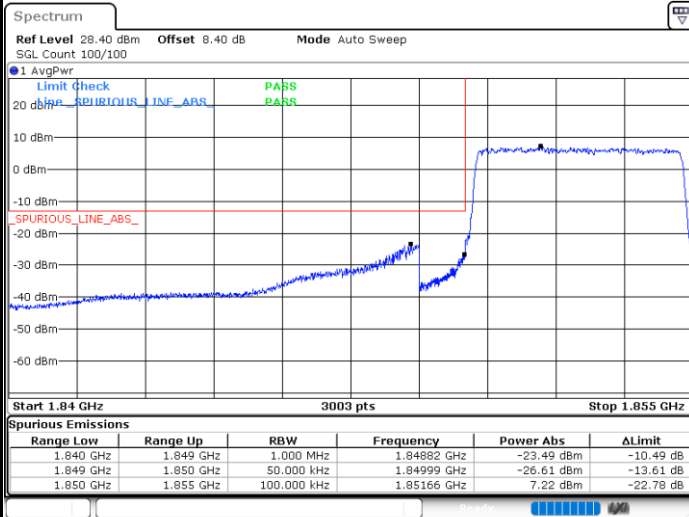


Highest Band Edge / Full RB



LTE Band 25 / 5MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

