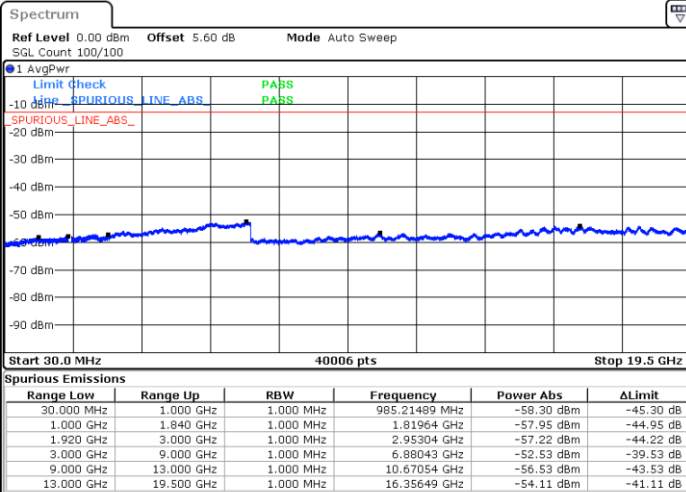




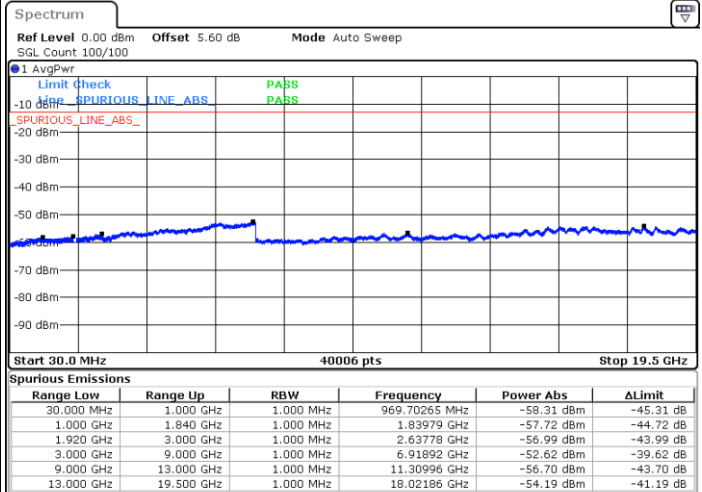
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

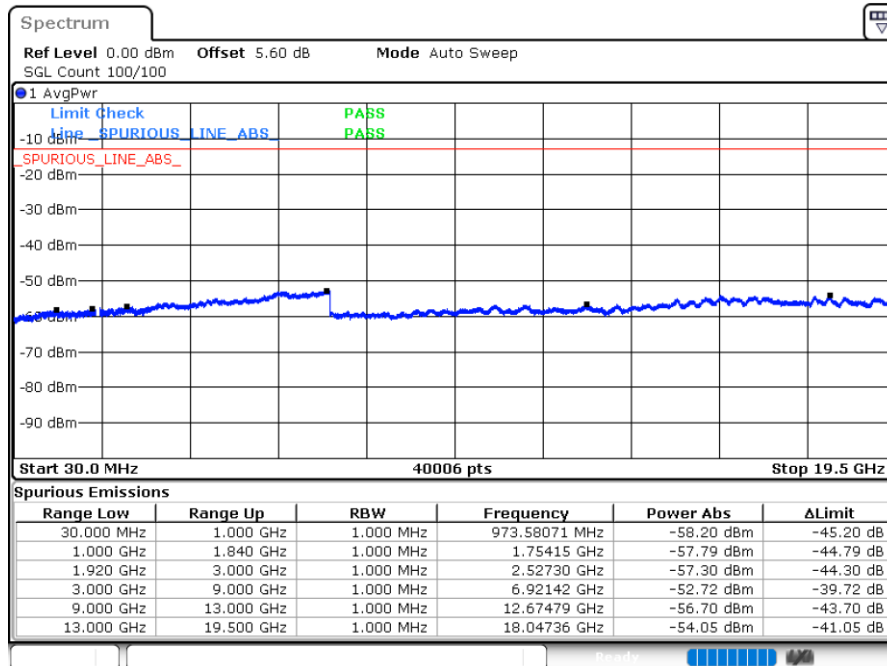


Date: 15.APR.2025 20:54:36



Date: 15.APR.2025 20:52:04

Highest Channel / QPSK



Date: 15.APR.2025 21:05:06

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	0.0021	PASS
40	Normal Voltage	0.0049	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0044	
0	Normal Voltage	0.0058	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0061	
20	Normal Voltage	0.0078	
20	Battery End Point	0.0013	

Note:

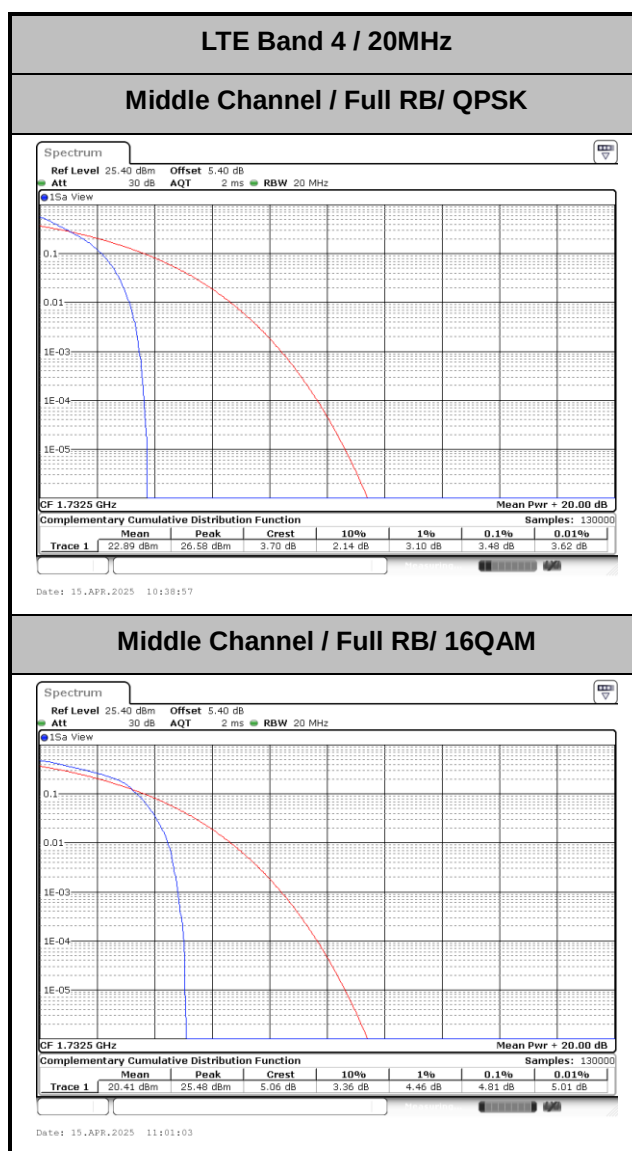
1. Normal Voltage = 3.89 V.; Battery End Point (BEP) =3.1 V.; Maximum Voltage = 4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

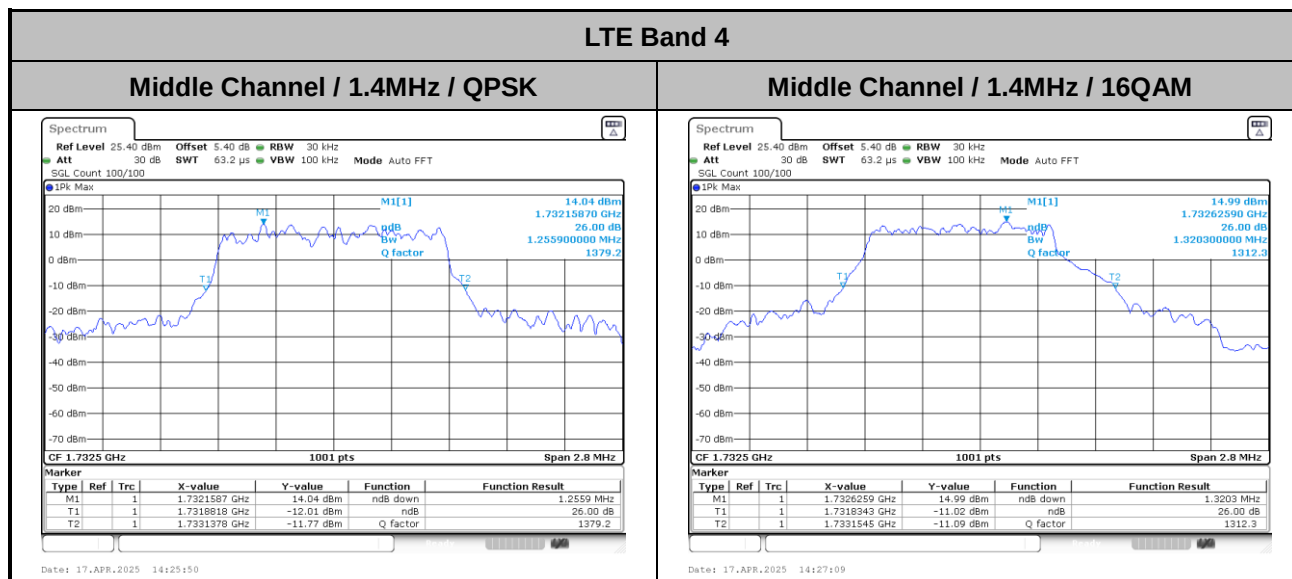
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	3.48	4.81	PASS



**26dB Bandwidth**

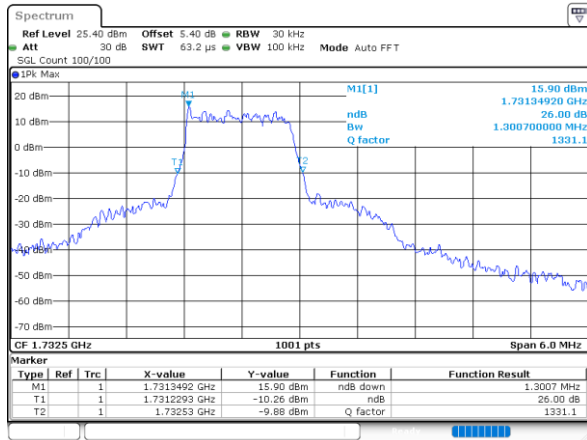
Mode	LTE Band 4 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.26	1.32
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	1.30	1.31
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	1.33	1.30
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	1.38	1.38
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	1.38	1.35
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	1.48	1.28





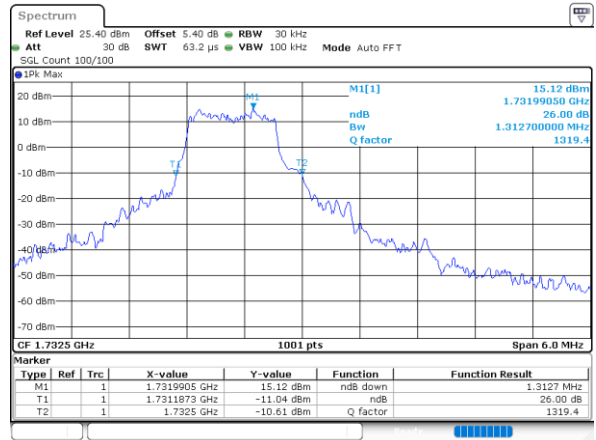
LTE Band 4

Middle Channel / 3MHz / QPSK



Date: 13.MAY.2025 17:26:05

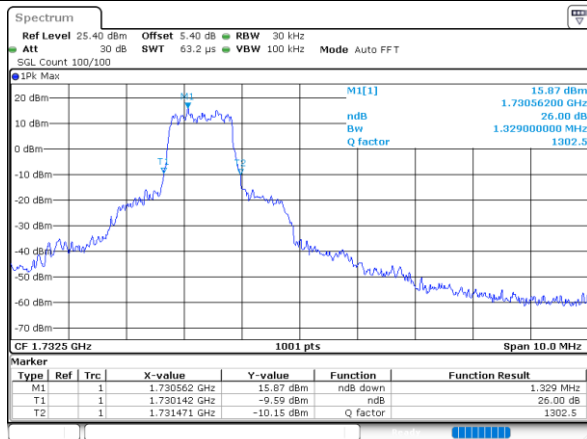
Middle Channel / 3MHz / 16QAM



Date: 13.MAY.2025 17:27:13

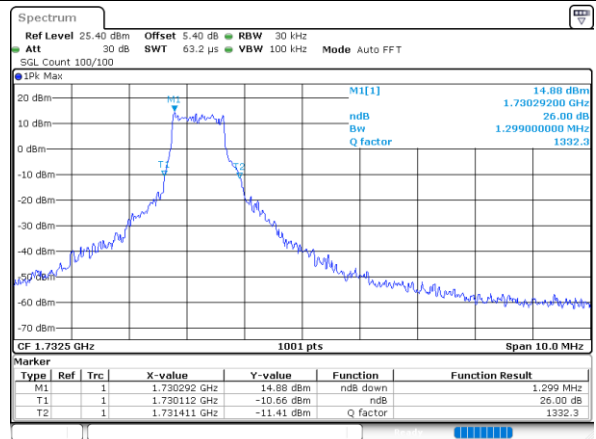
LTE Band 4

Middle Channel / 5MHz / QPSK



Date: 13.MAY.2025 17:30:03

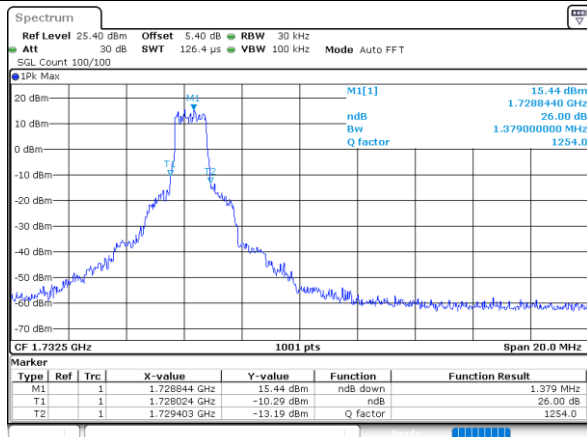
Middle Channel / 5MHz / 16QAM



Date: 13.MAY.2025 17:31:47

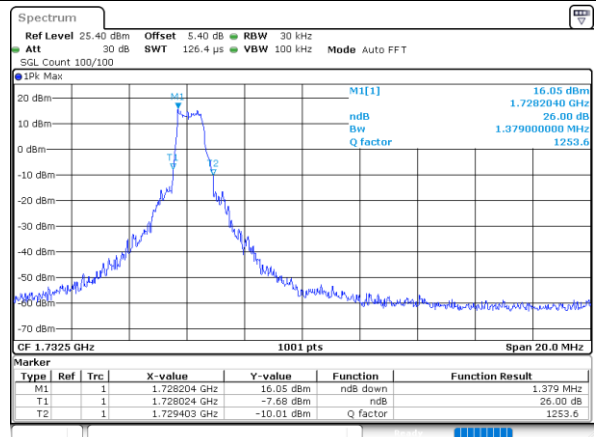
LTE Band 4

Middle Channel / 10MHz / QPSK



Date: 13.MAY.2025 17:33:52

Middle Channel / 10MHz / 16QAM

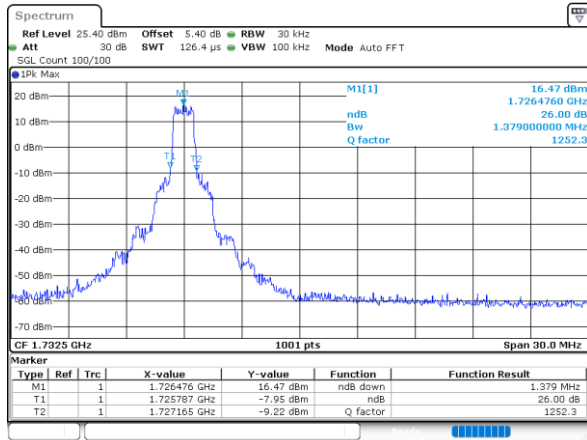


Date: 13.MAY.2025 17:34:54

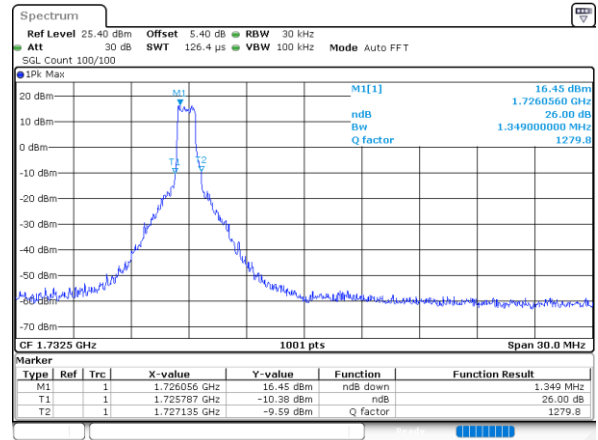


LTE Band 4

Middle Channel / 15MHz / QPSK

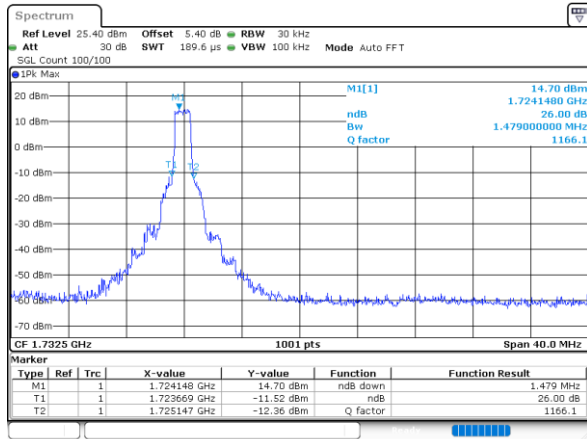


Middle Channel / 15MHz / 16QAM

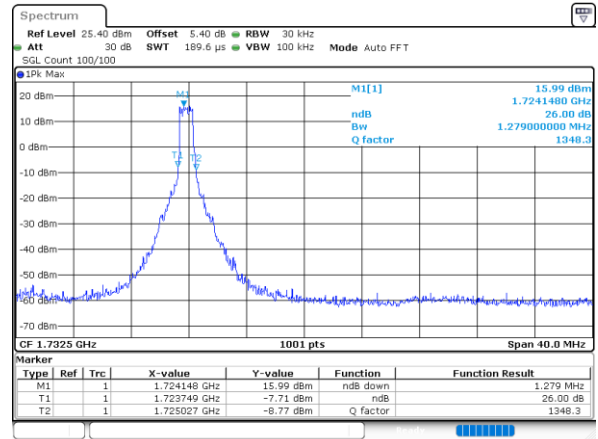


LTE Band 4

Middle Channel / 20MHz / QPSK



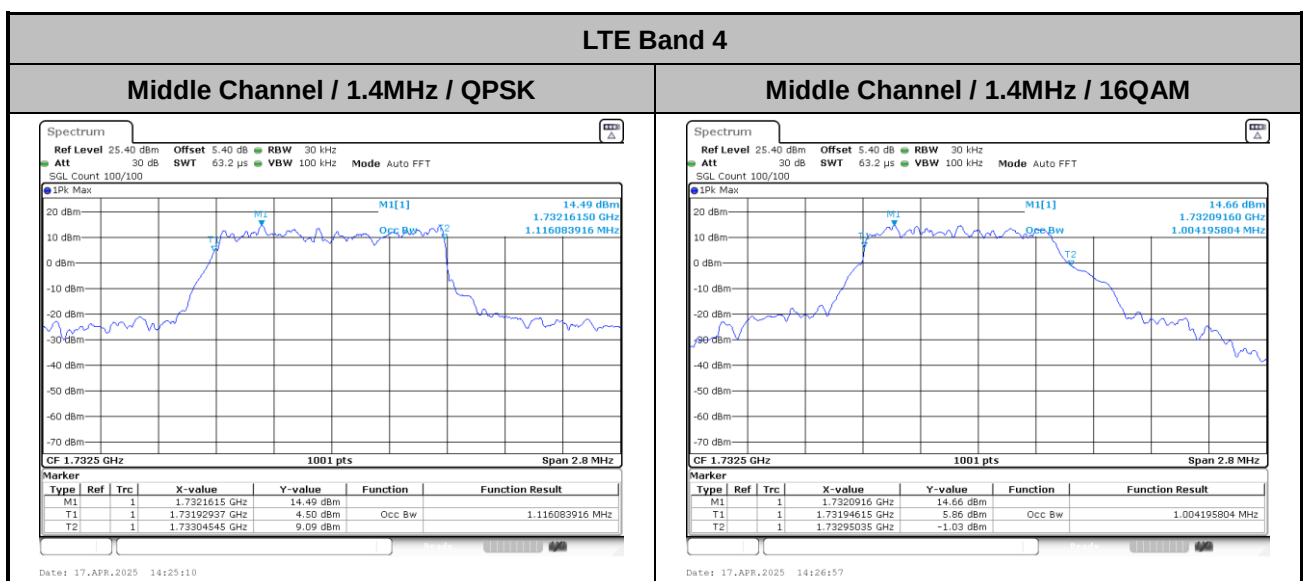
Middle Channel / 20MHz / 16QAM





Occupied Bandwidth

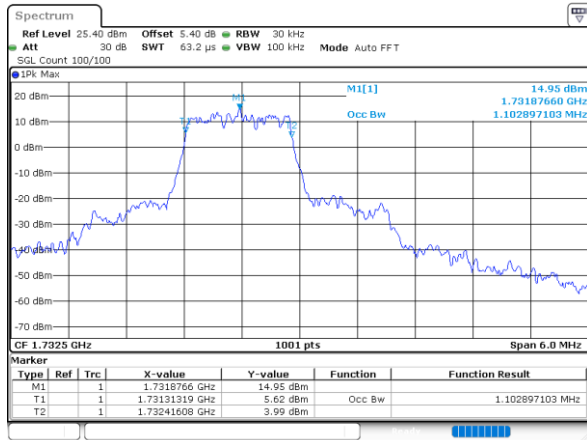
Mode	LTE Band 4 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.12	1.00
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	0.971
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.01
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	1.12	0.939
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	1.11	0.959
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	1.12	0.959



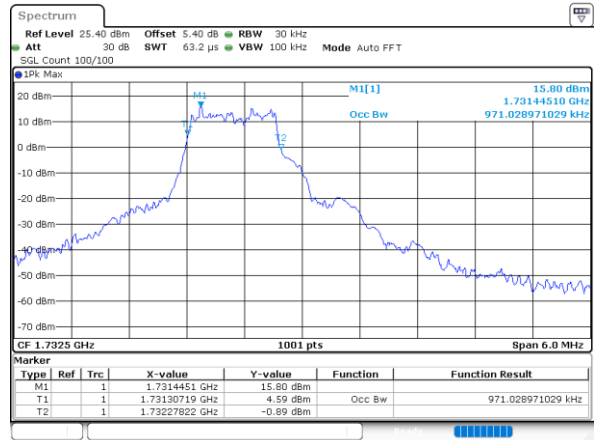


LTE Band 4

Middle Channel / 3MHz / QPSK

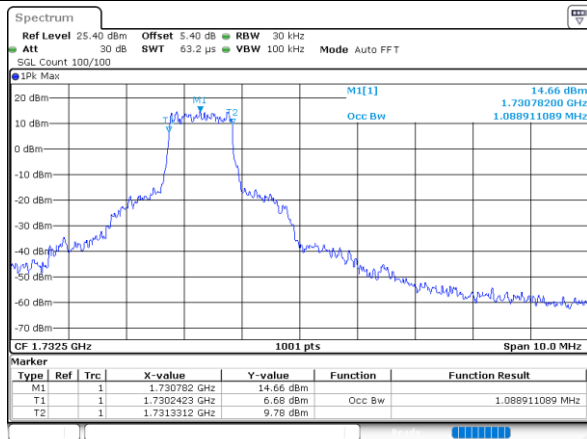


Middle Channel / 3MHz / 16QAM

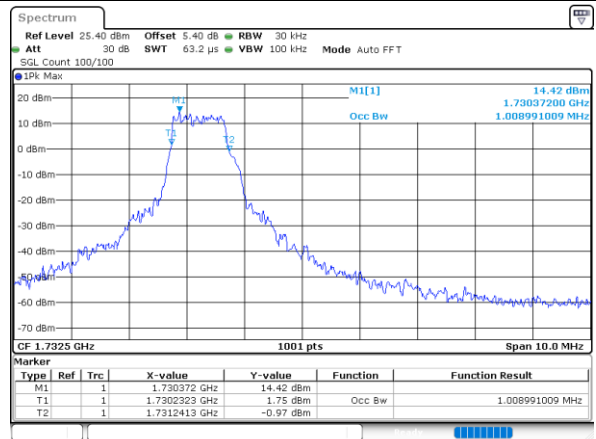


LTE Band 4

Middle Channel / 5MHz / QPSK

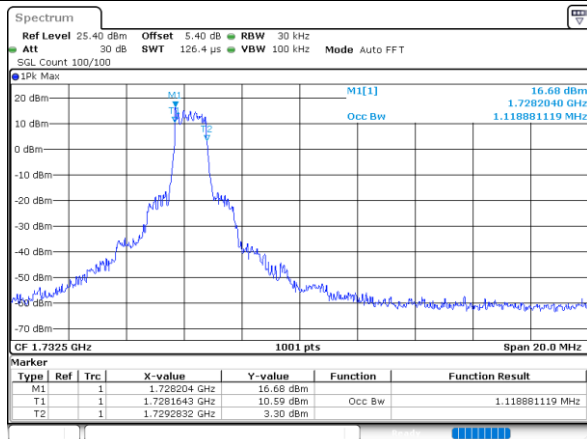


Middle Channel / 5MHz / 16QAM

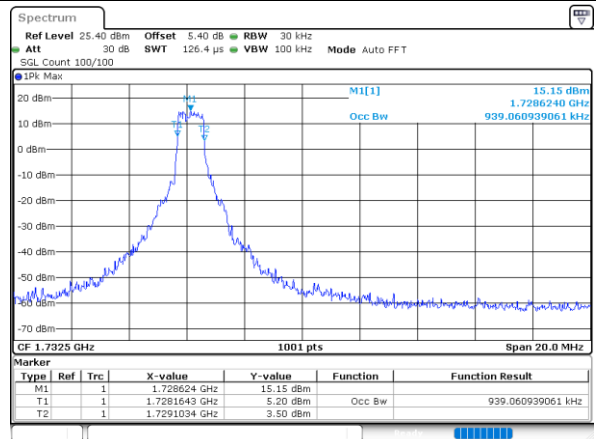


LTE Band 4

Middle Channel / 10MHz / QPSK



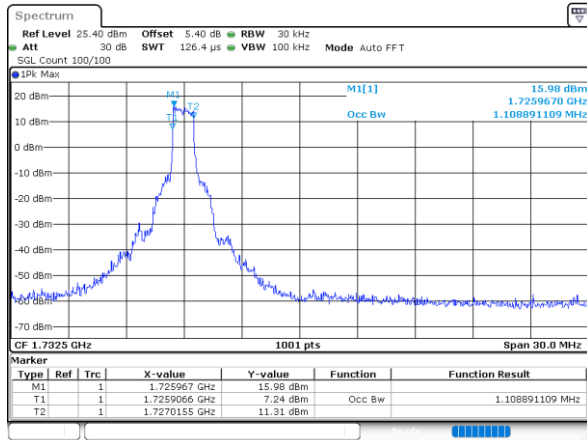
Middle Channel / 10MHz / 16QAM



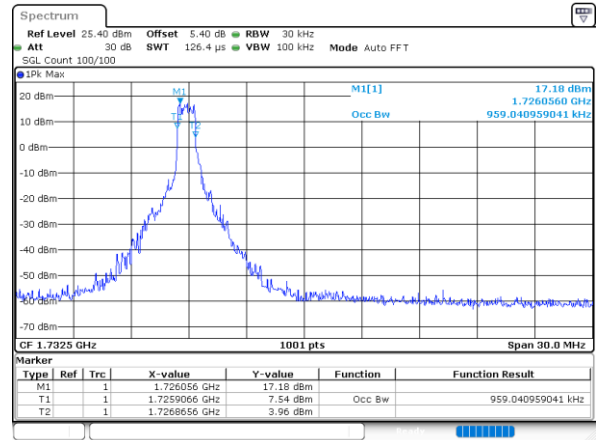


LTE Band 4

Middle Channel / 15MHz / QPSK

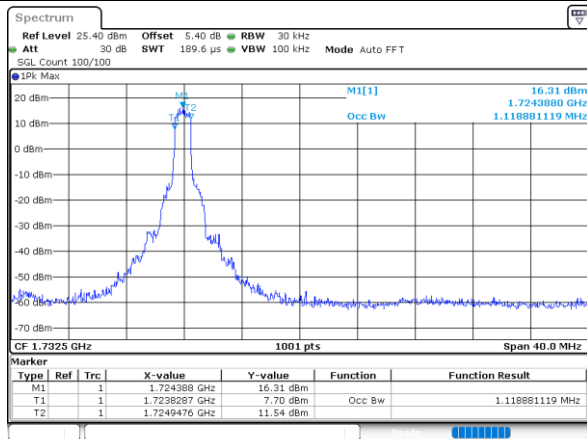


Middle Channel / 15MHz / 16QAM

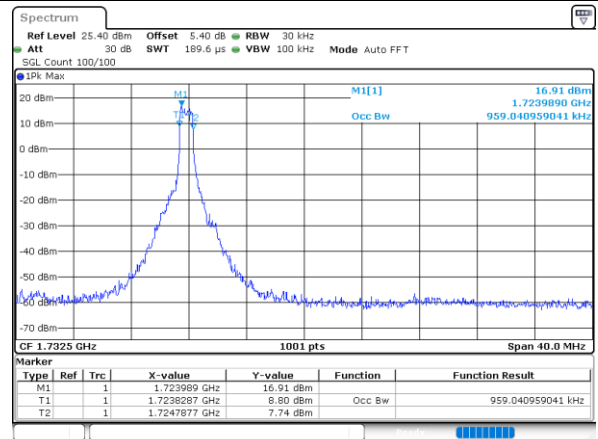


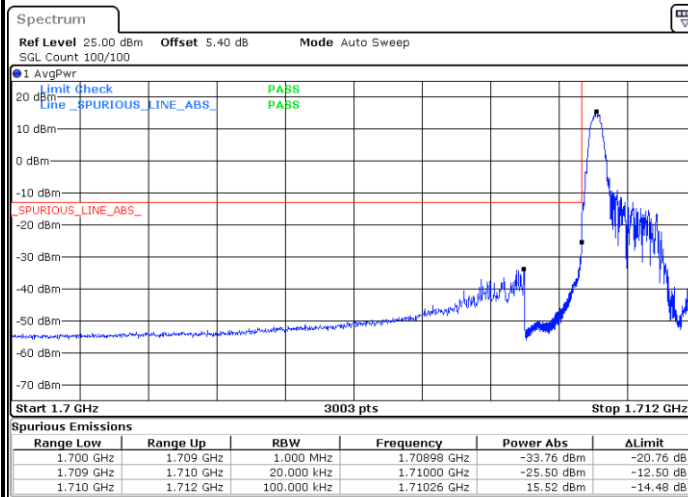
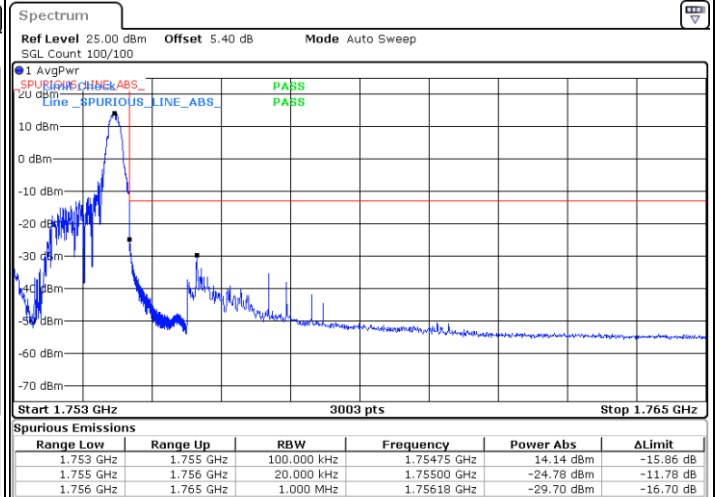
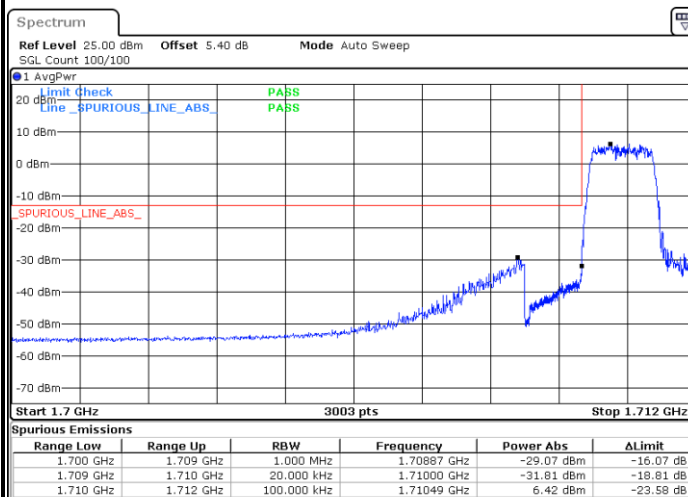
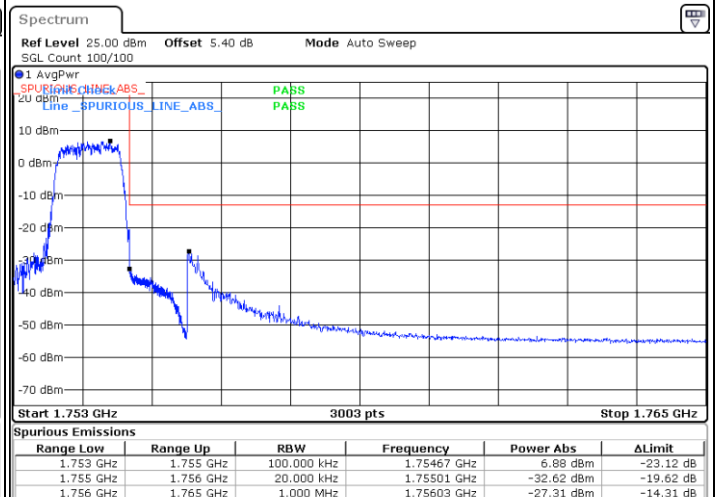
LTE Band 4

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

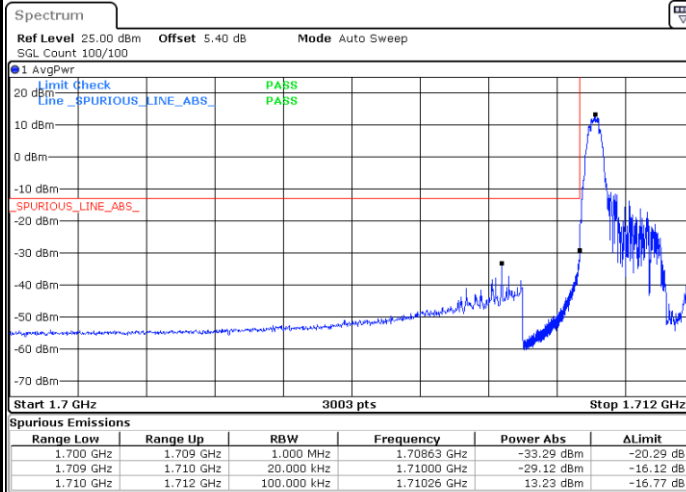


**Conducted Band Edge****LTE Band 4 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

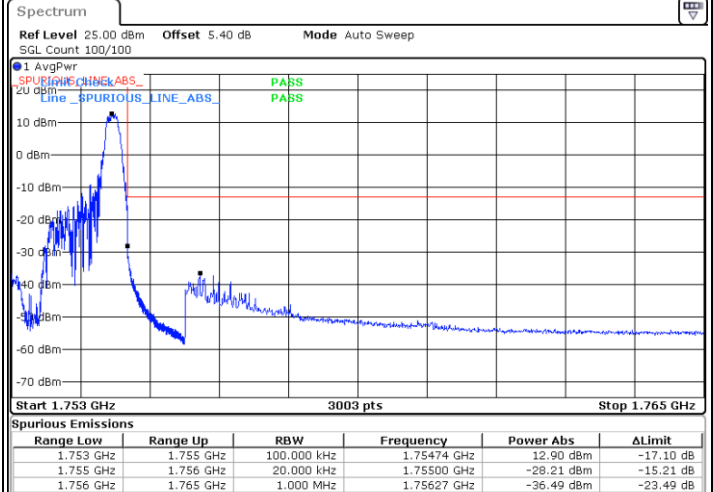


LTE Band 4 / 1.4MHz / 16QAM

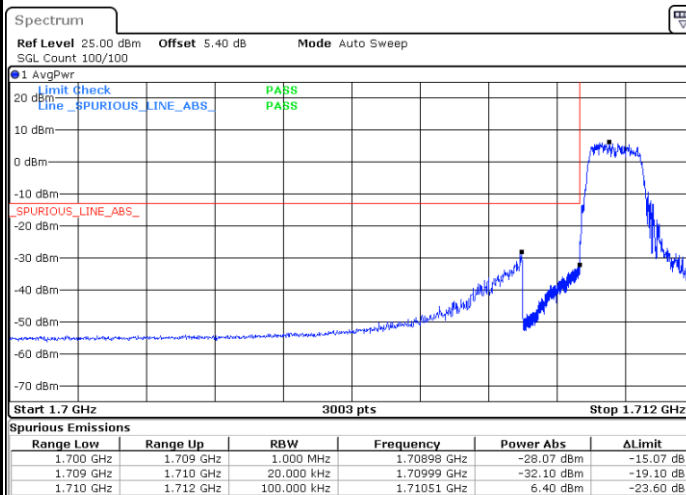
Lowest Band Edge / 1 RB



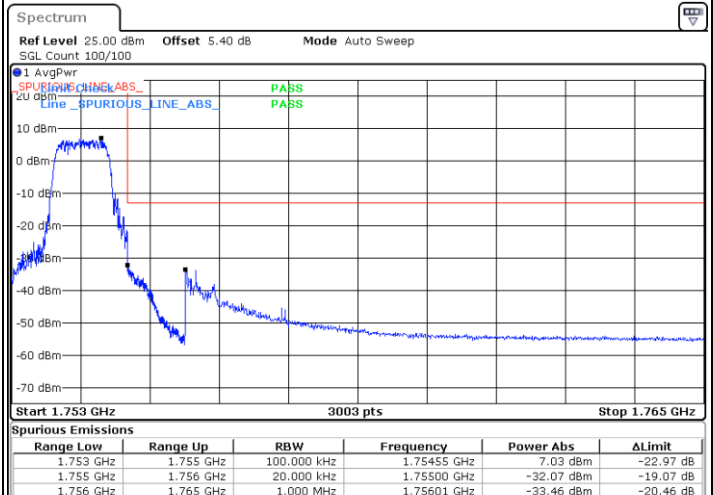
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



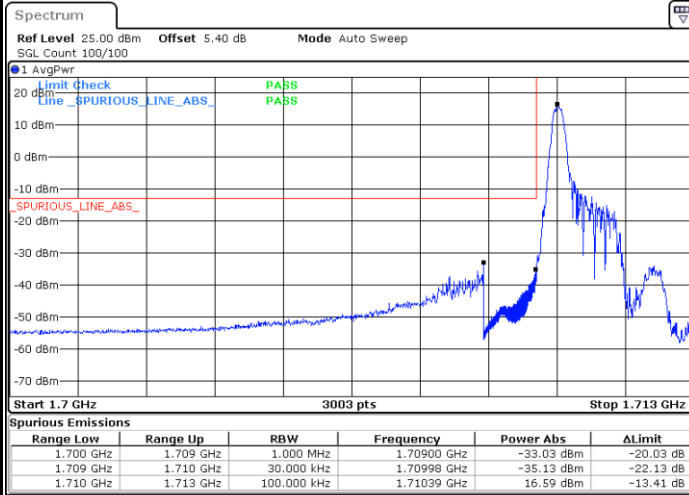
Highest Band Edge / Full RB



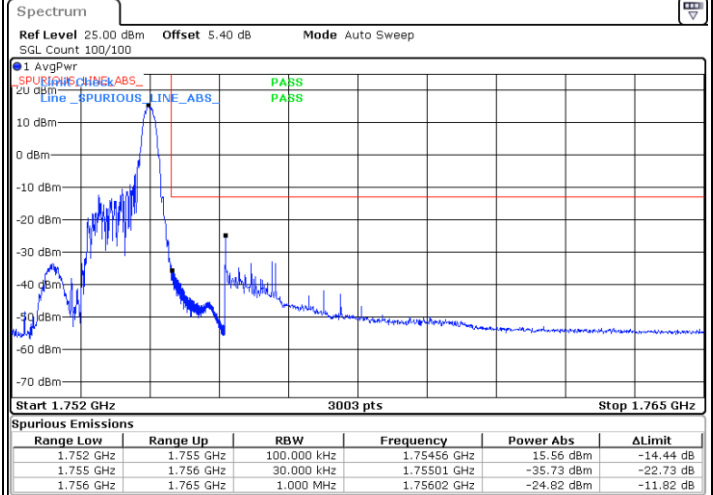


LTE Band 4 / 3MHz / QPSK

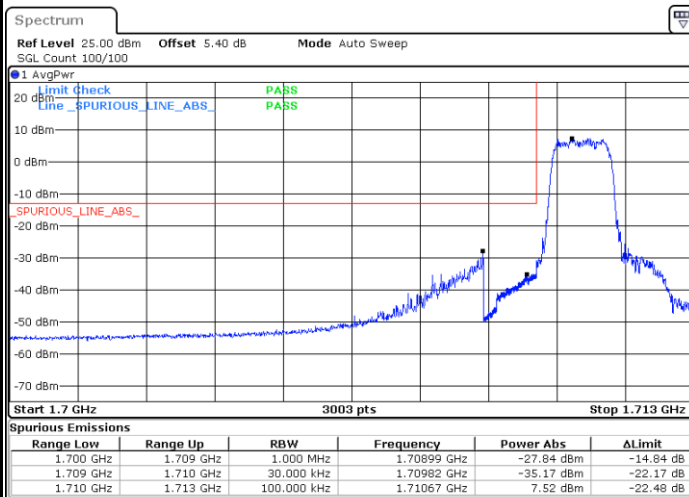
Lowest Band Edge / 1RB



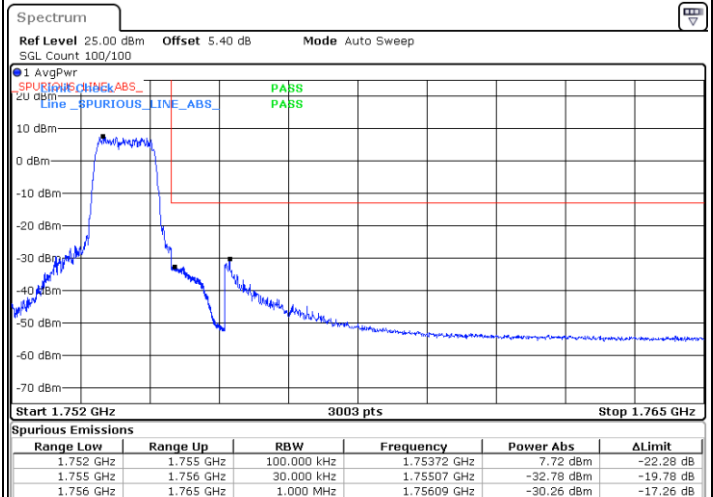
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



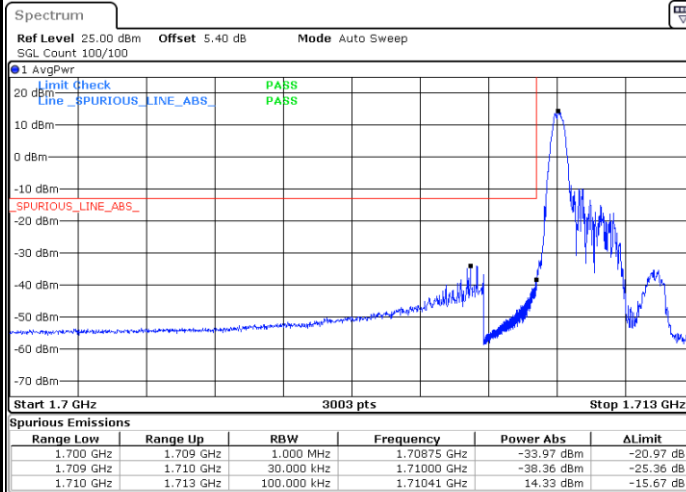
Highest Band Edge / Full RB



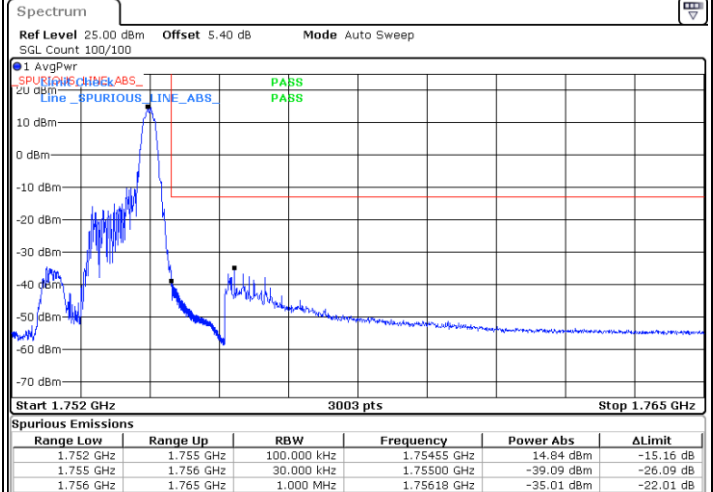


LTE Band 4 / 3MHz / 16QAM

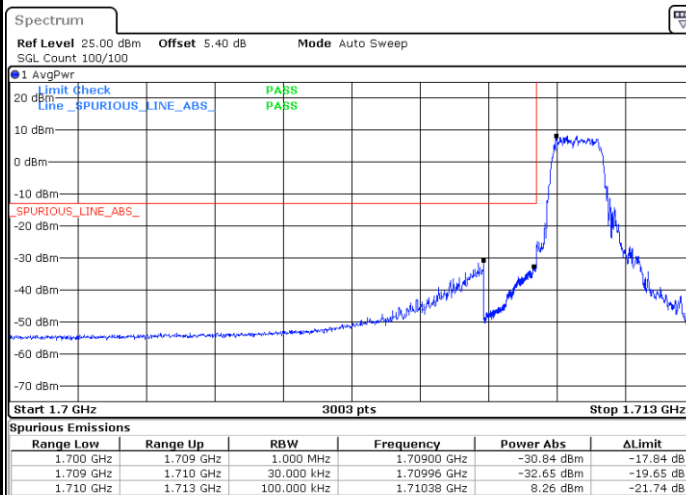
Lowest Band Edge / 1 RB



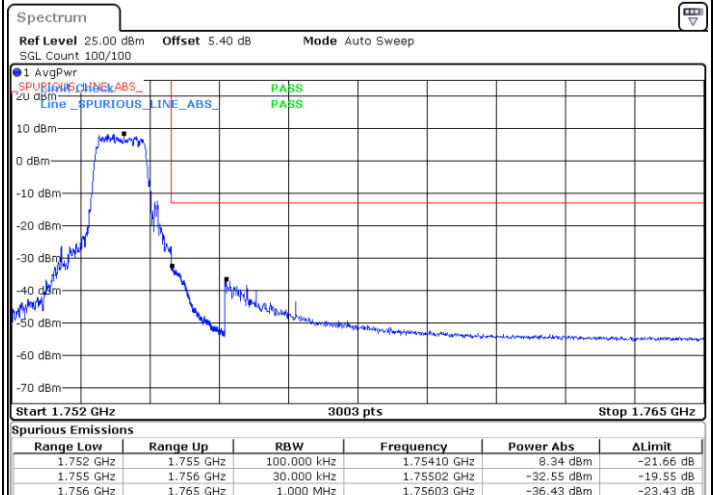
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



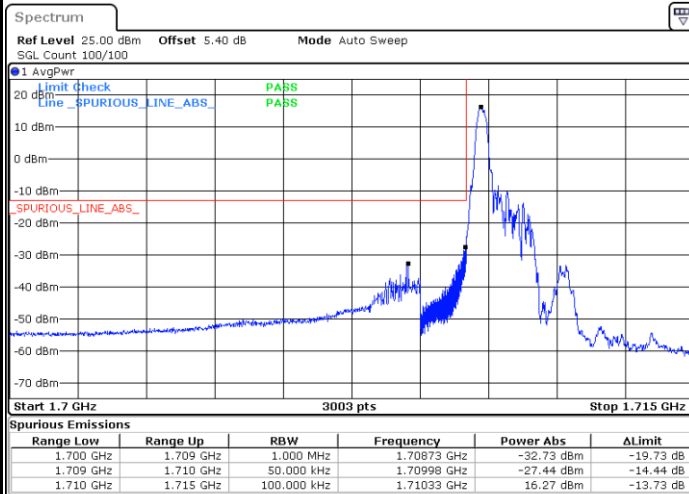
Highest Band Edge / Full RB



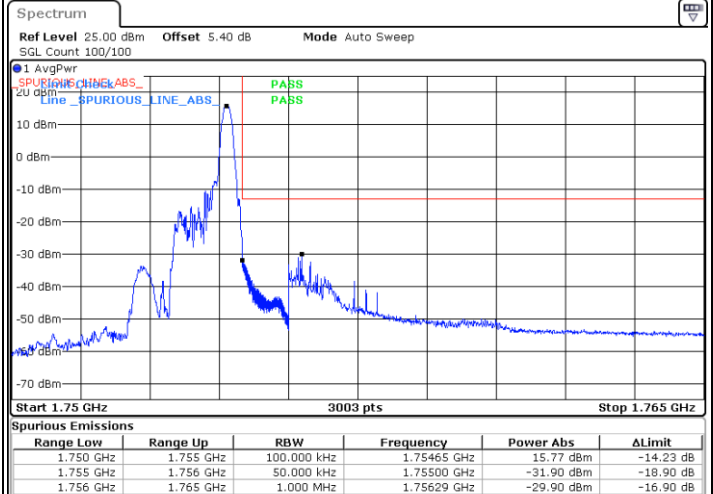


LTE Band 4 / 5MHz / QPSK

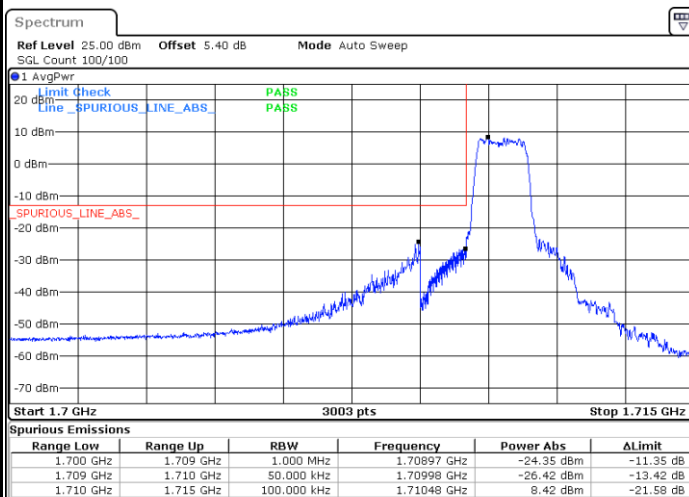
Lowest Band Edge / 1 RB



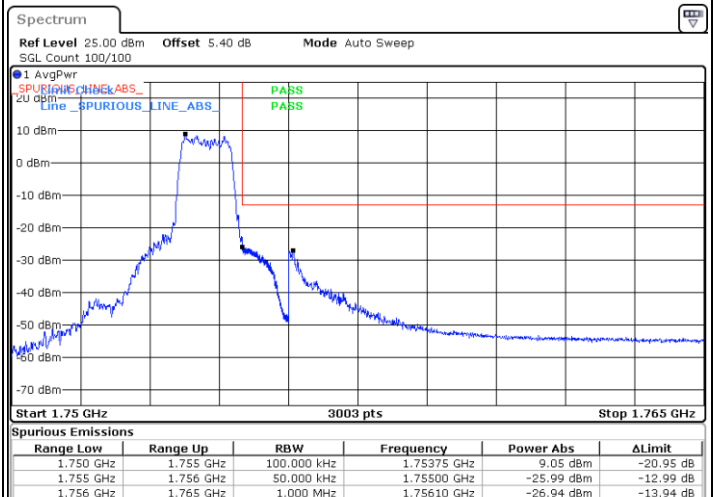
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



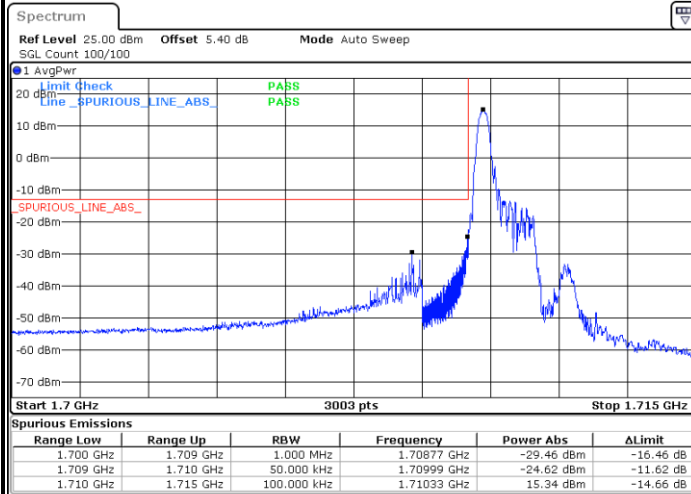
Highest Band Edge / Full RB



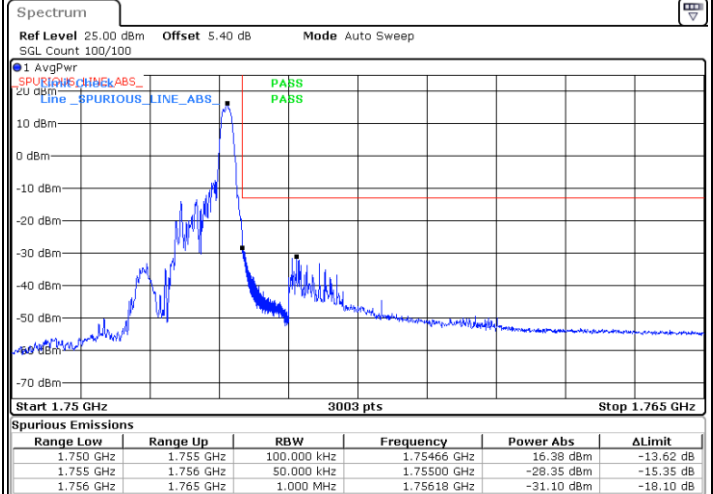


LTE Band 4 / 5MHz / 16QAM

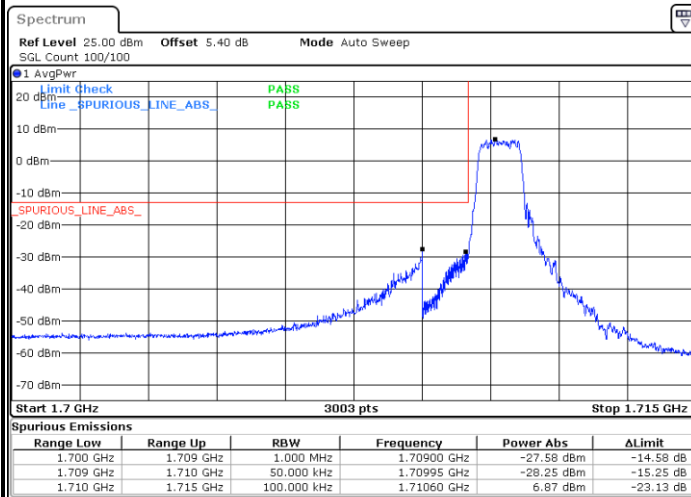
Lowest Band Edge / 1RB



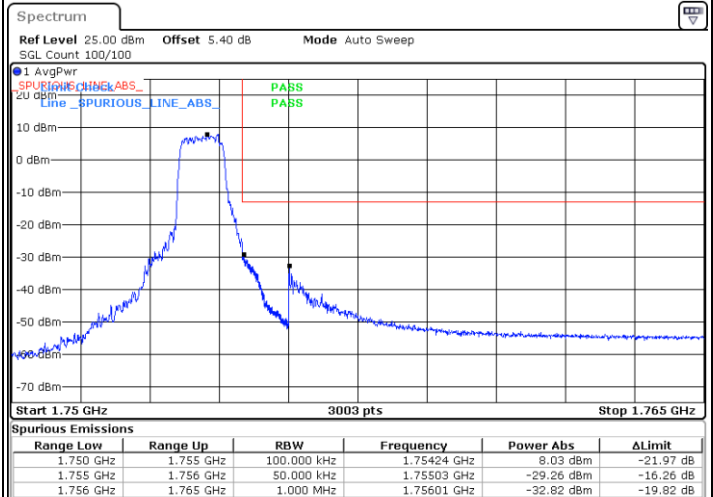
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



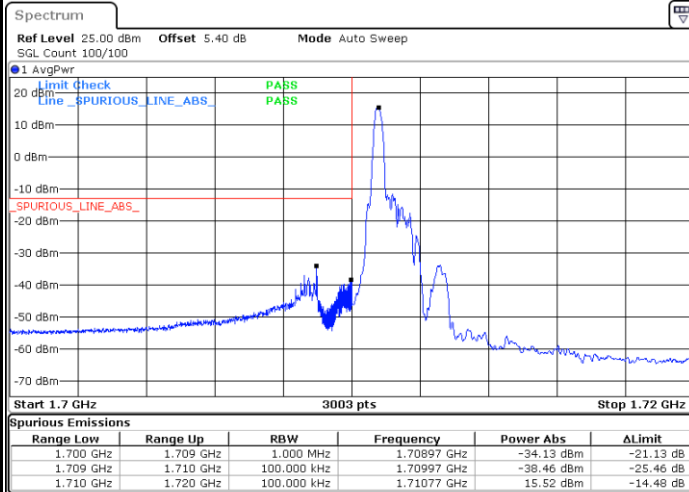
Highest Band Edge / Full RB



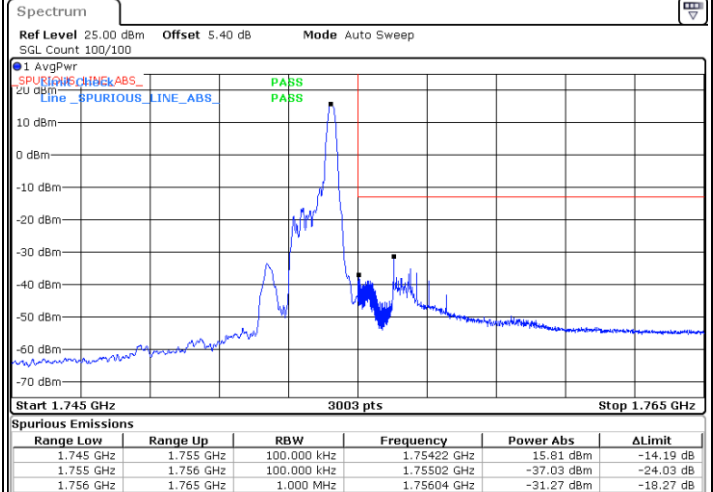


LTE Band 4 / 10MHz / QPSK

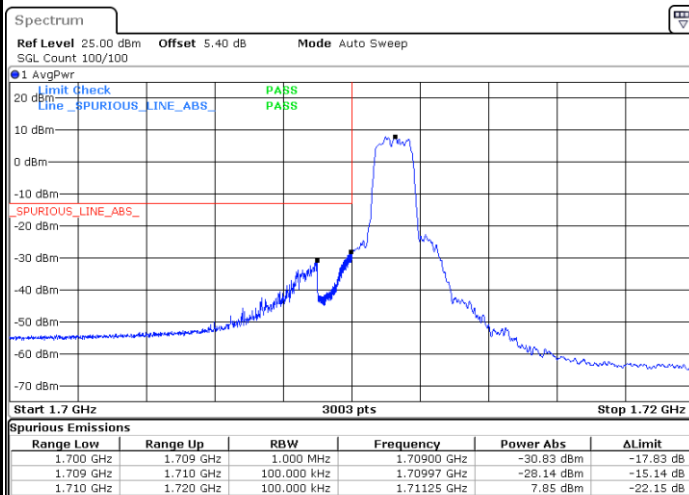
Lowest Band Edge / 1 RB



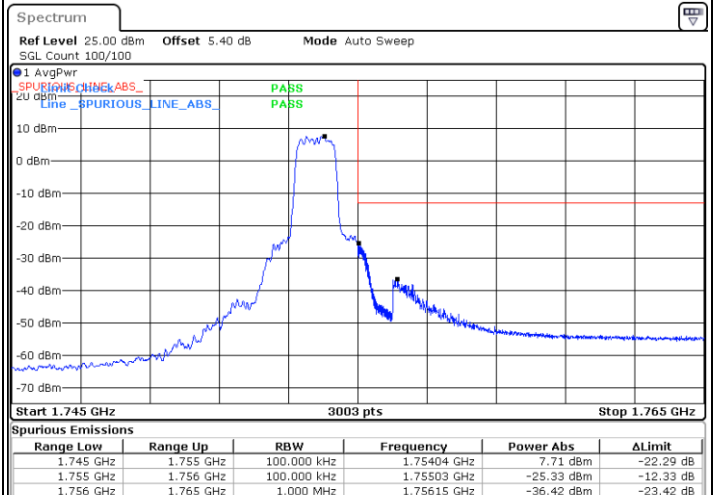
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



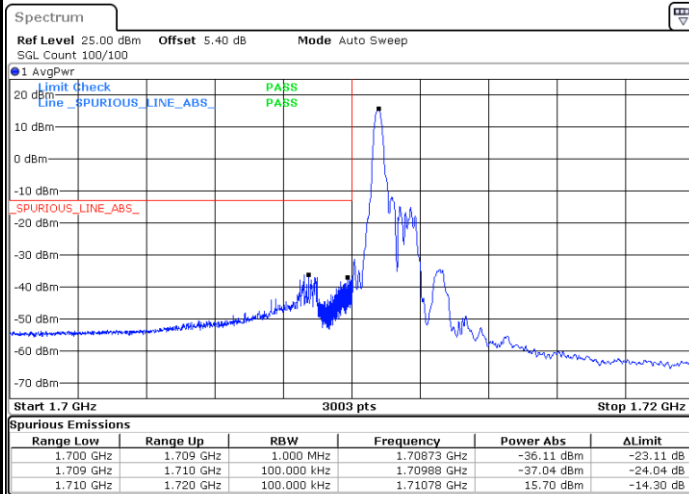
Highest Band Edge / Full RB



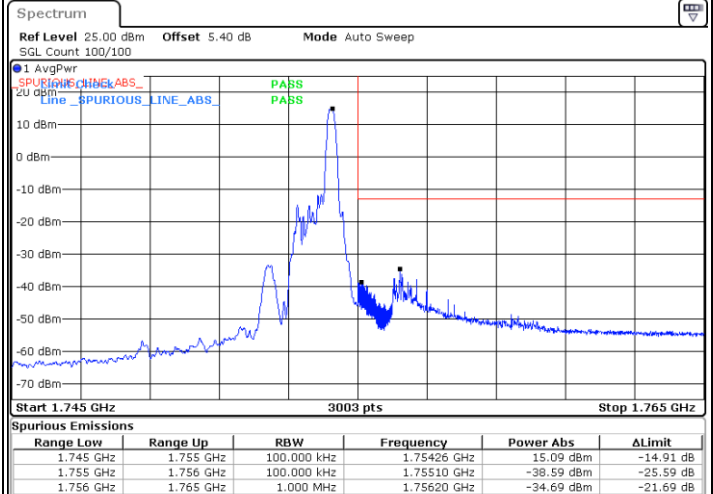


LTE Band 4 / 10MHz / 16QAM

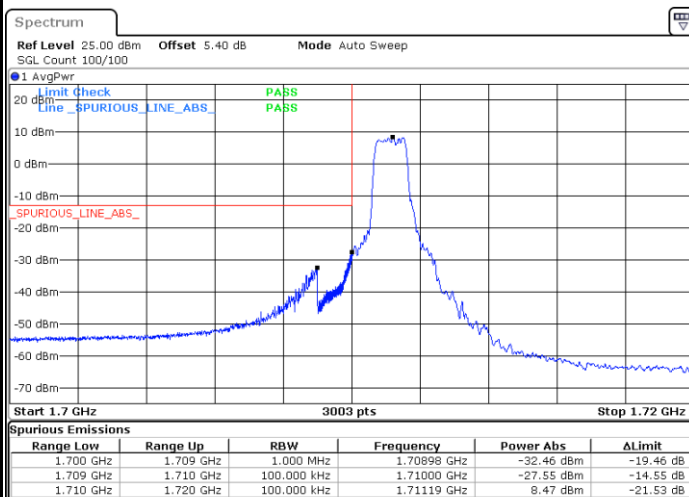
Lowest Band Edge / 1 RB



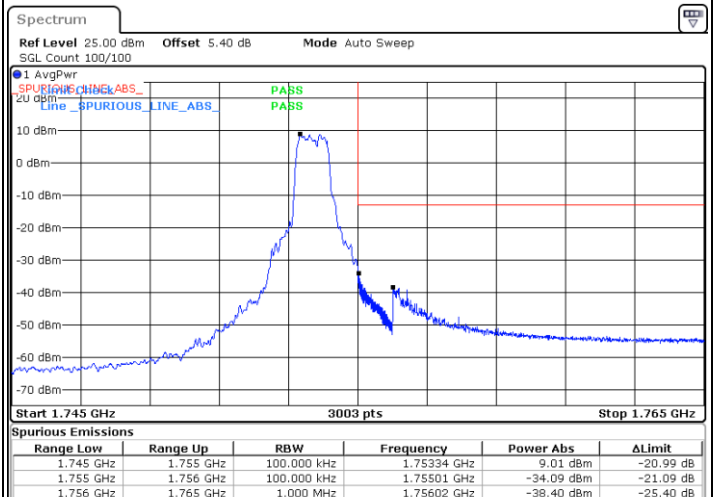
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



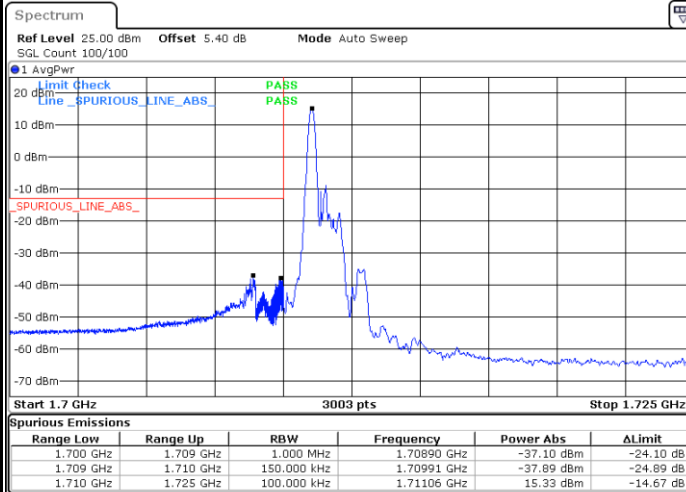
Highest Band Edge / Full RB



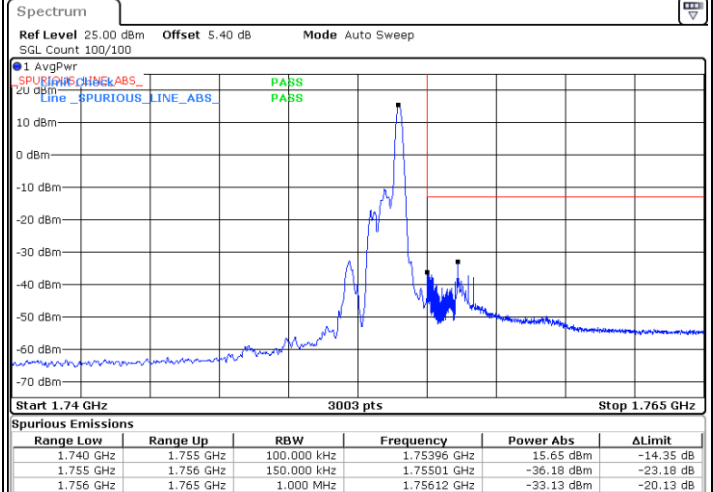


LTE Band 4 / 15MHz / QPSK

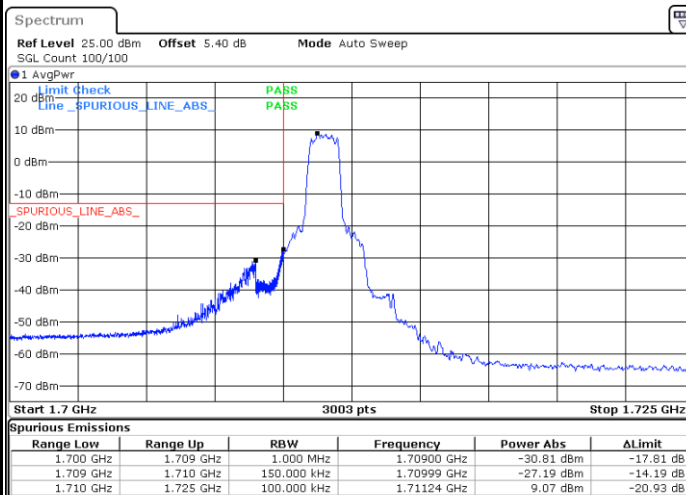
Lowest Band Edge / 1 RB



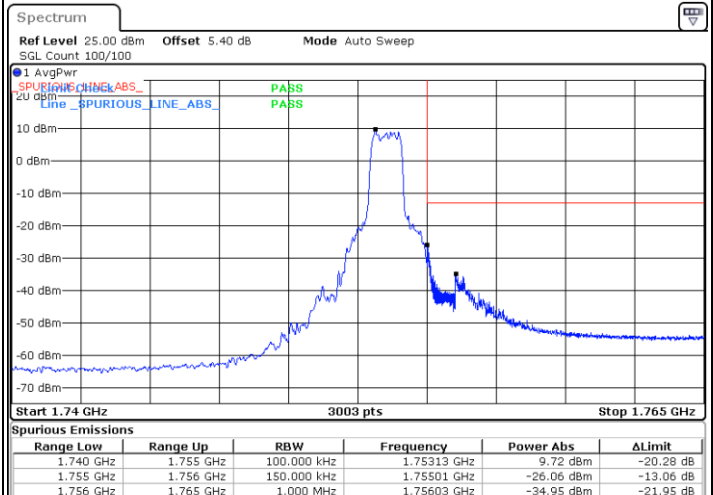
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



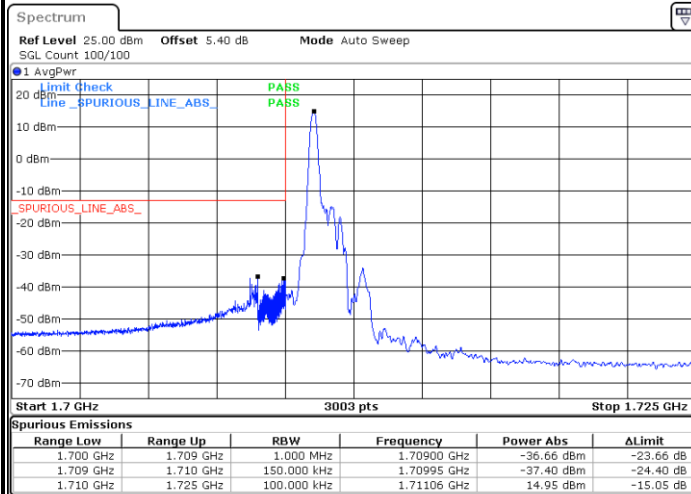
Highest Band Edge / Full RB



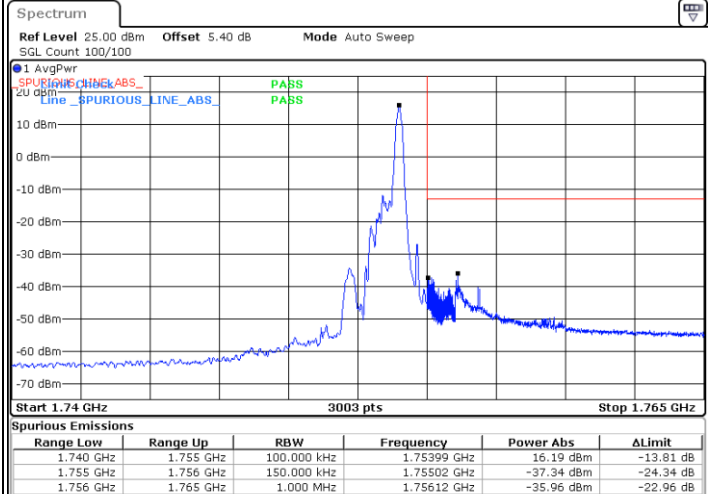


LTE Band 4 / 15MHz / 16QAM

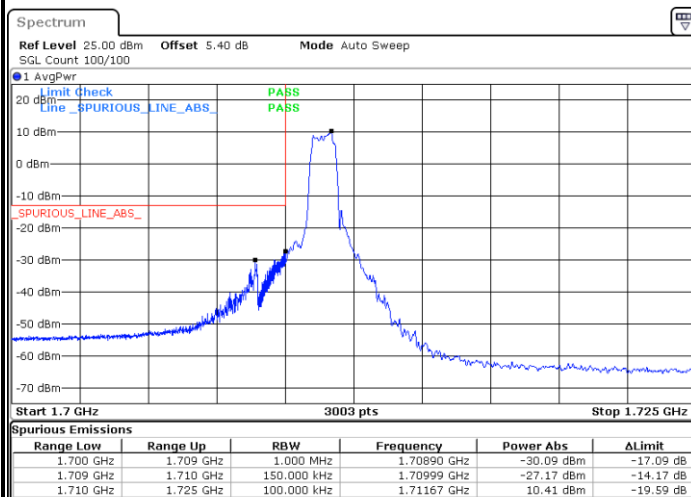
Lowest Band Edge / 1 RB



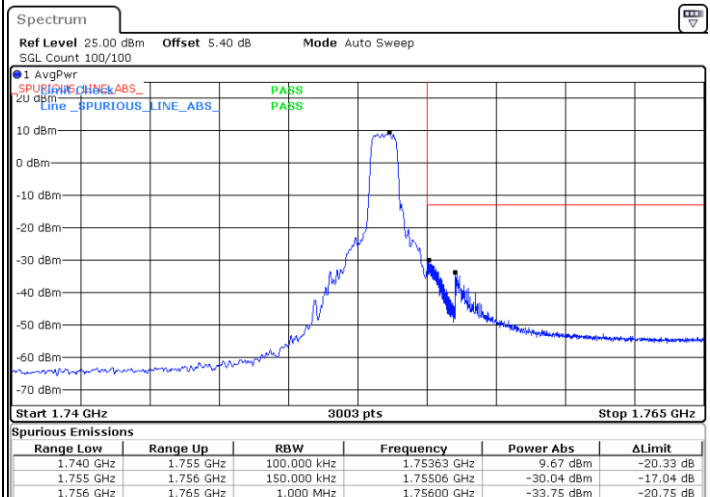
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



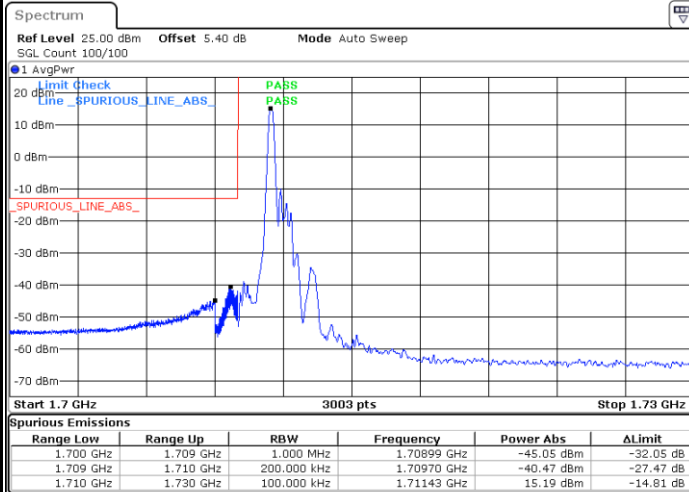
Highest Band Edge / Full RB



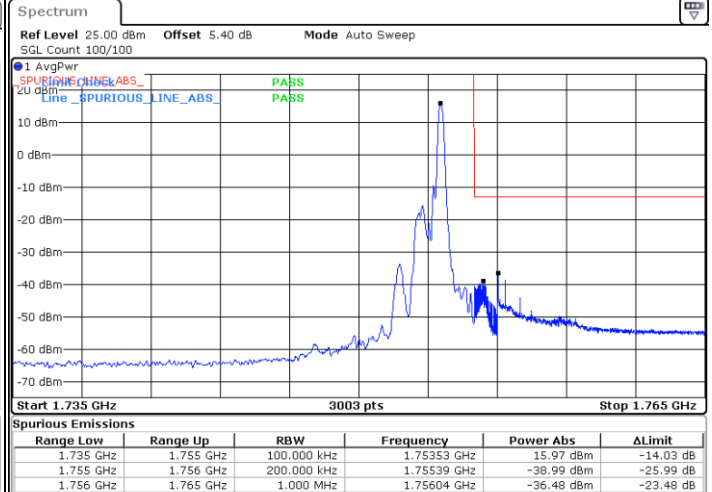


LTE Band 4 / 20MHz / QPSK

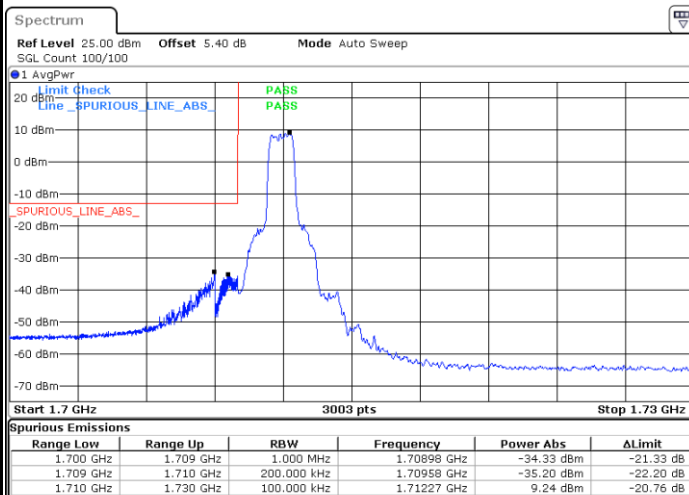
Lowest Band Edge / 1 RB



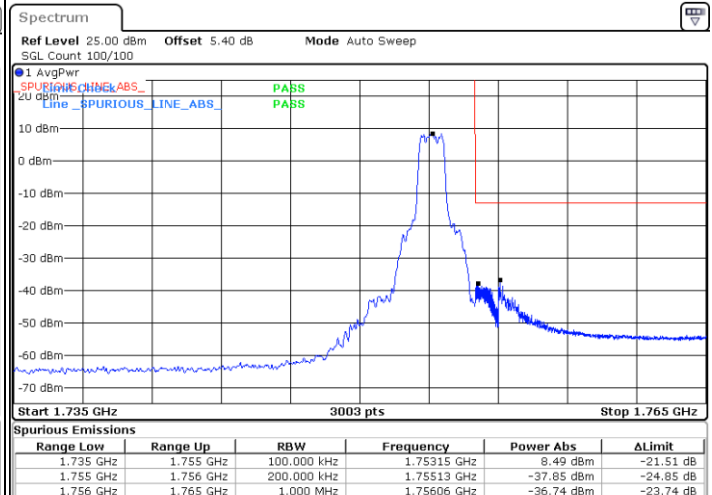
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



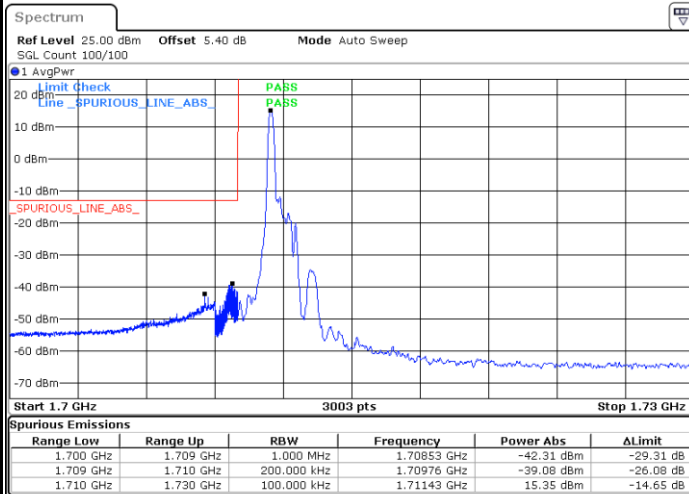
Highest Band Edge / Full RB



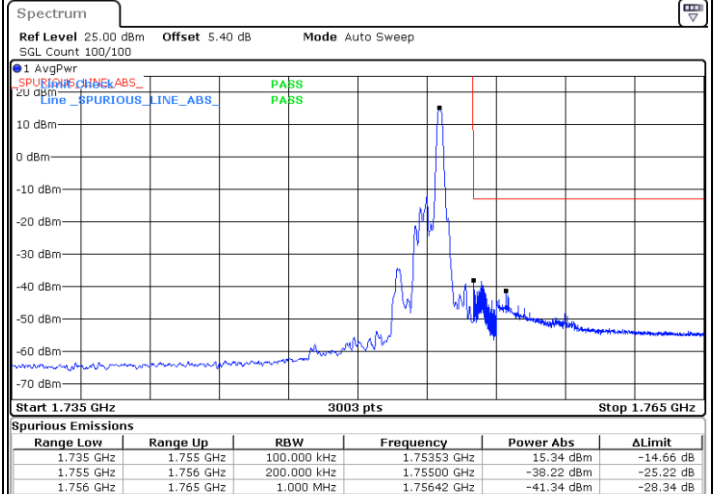


LTE Band 4 / 20MHz / 16QAM

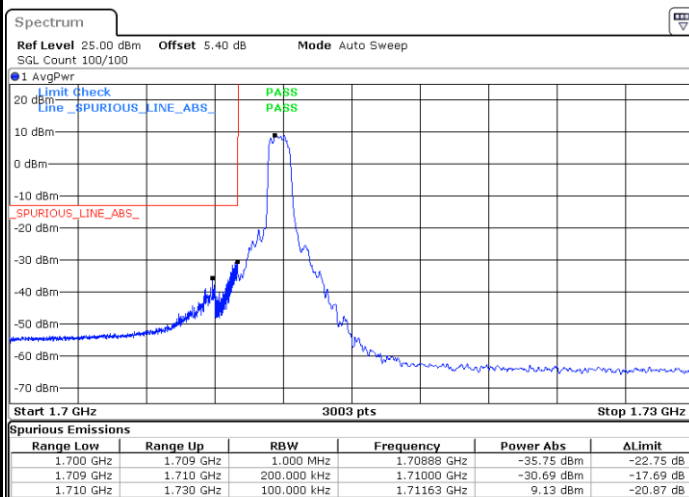
Lowest Band Edge / 1 RB



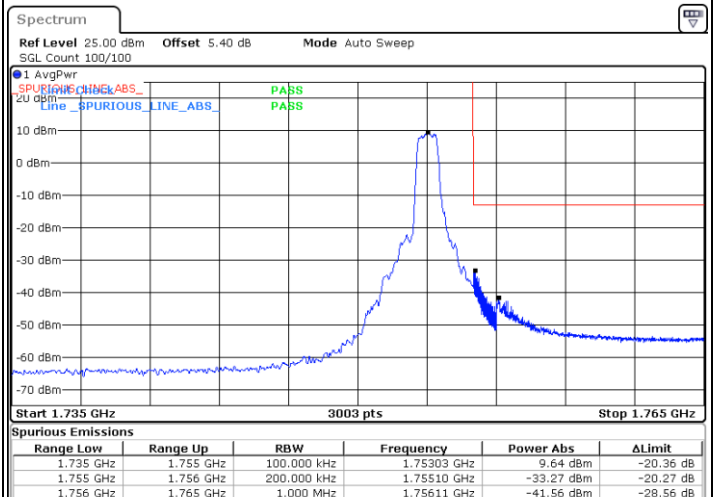
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

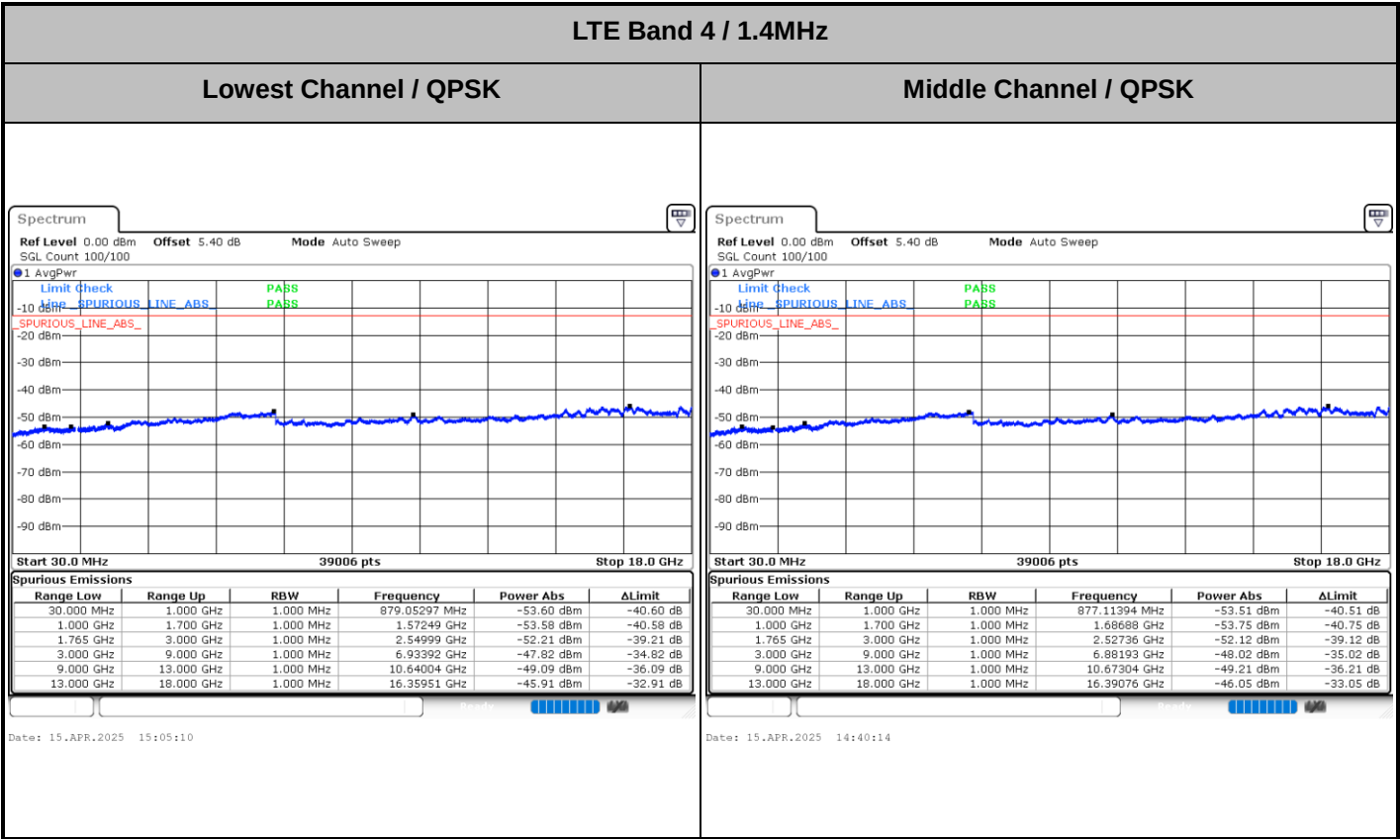


Highest Band Edge / Full RB



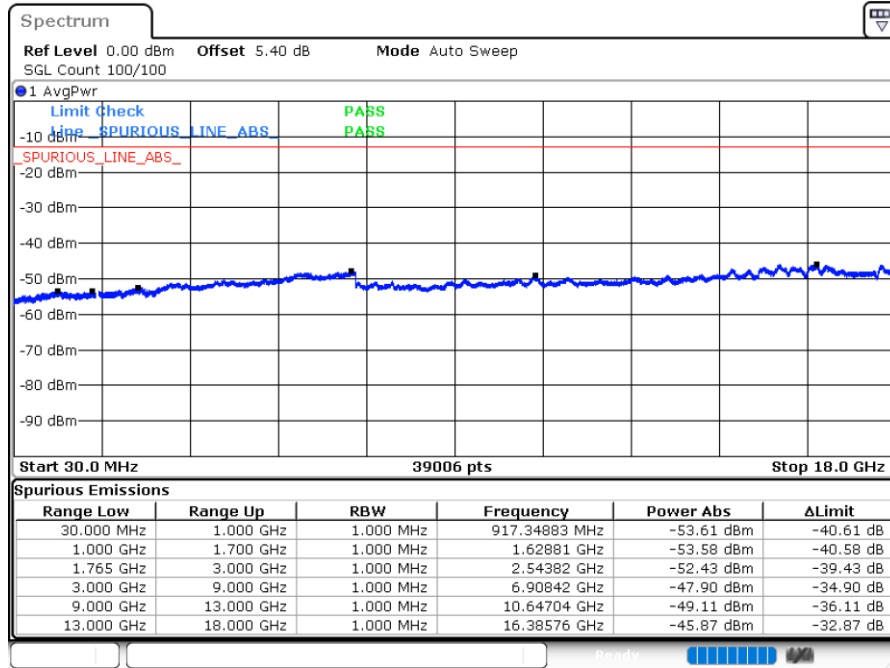


Conducted Spurious Emission





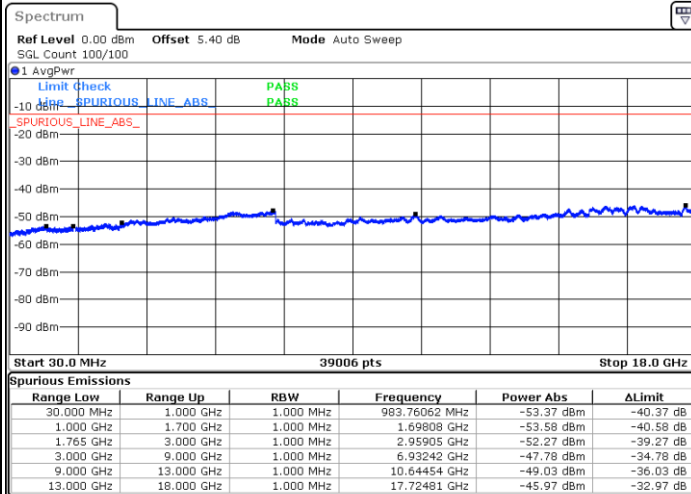
Highest Channel / QPSK



Date: 15.APR.2025 14:41:58

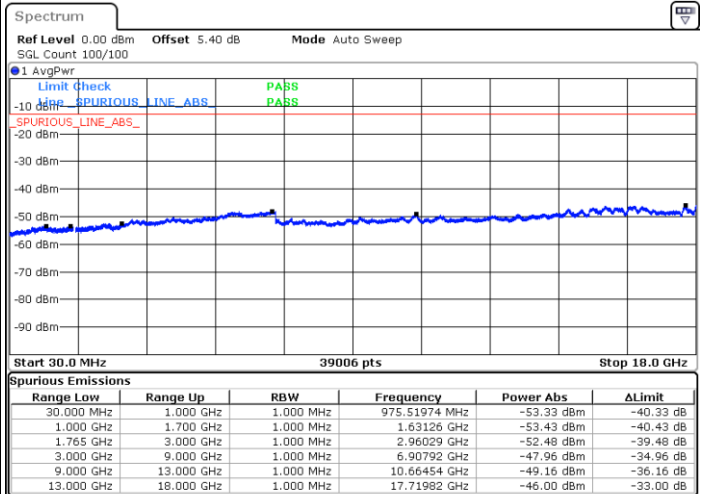
LTE Band 4 / 3MHz

Lowest Channel / QPSK



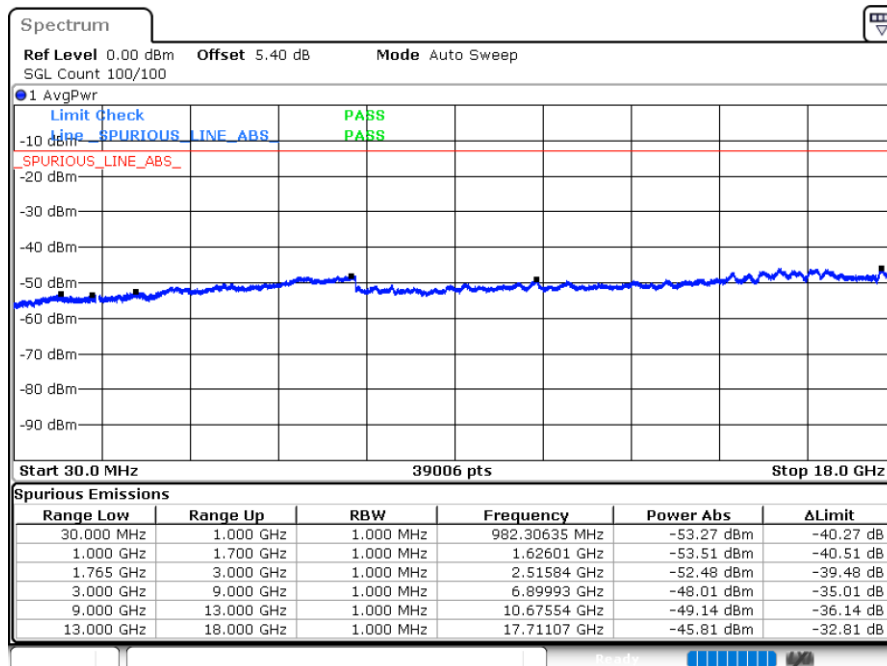
Date: 15.APR.2025 14:28:12

Middle Channel / QPSK



Date: 15.APR.2025 13:44:30

Highest Channel / QPSK



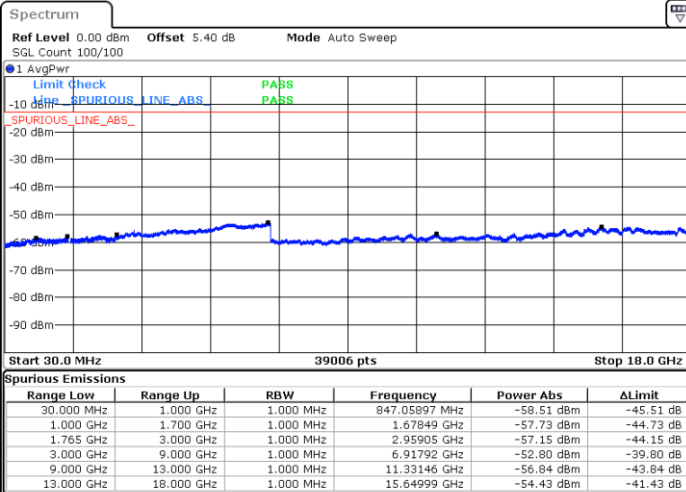
Date: 15.APR.2025 13:57:06



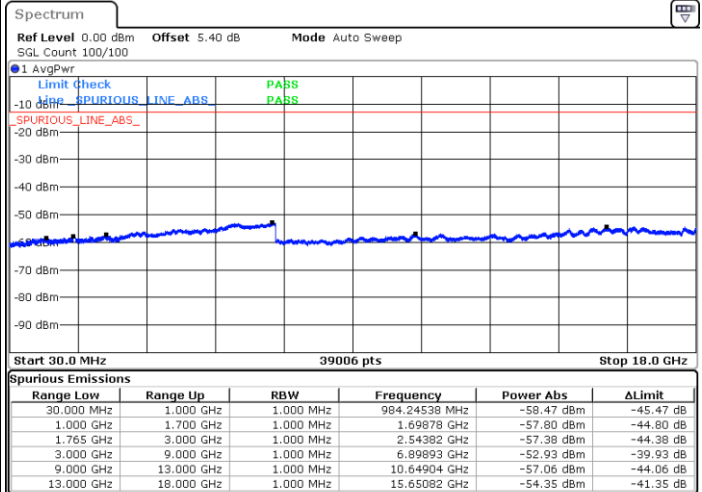
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

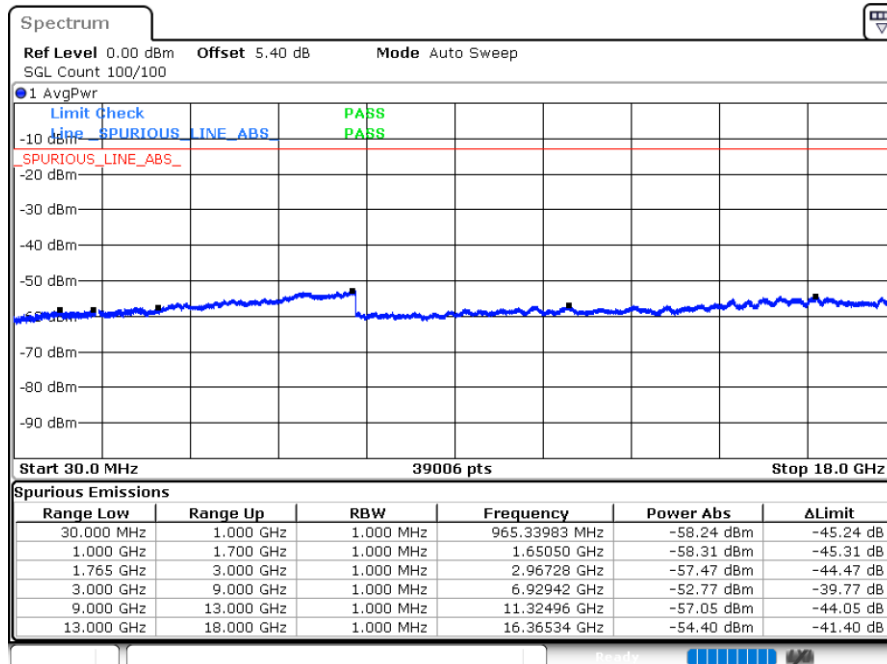


Date: 15.APR.2025 13:42:39



Date: 15.APR.2025 13:21:23

Highest Channel / QPSK



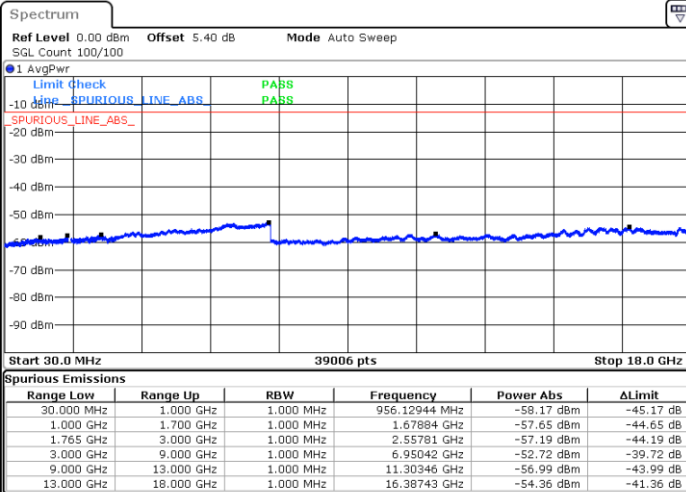
Date: 15.APR.2025 13:24:31



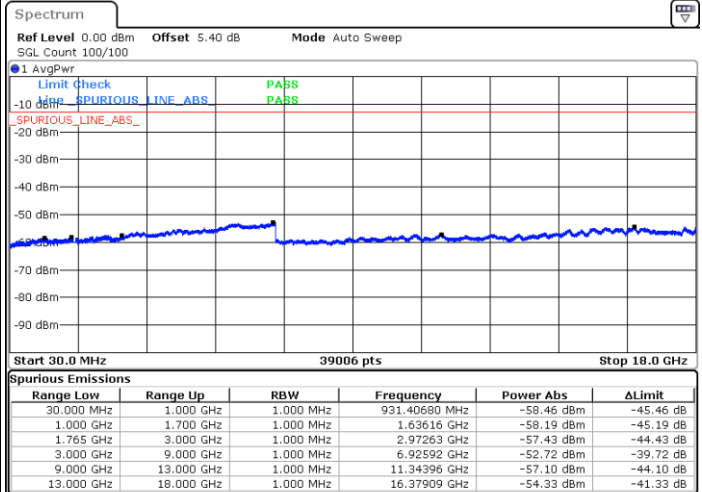
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

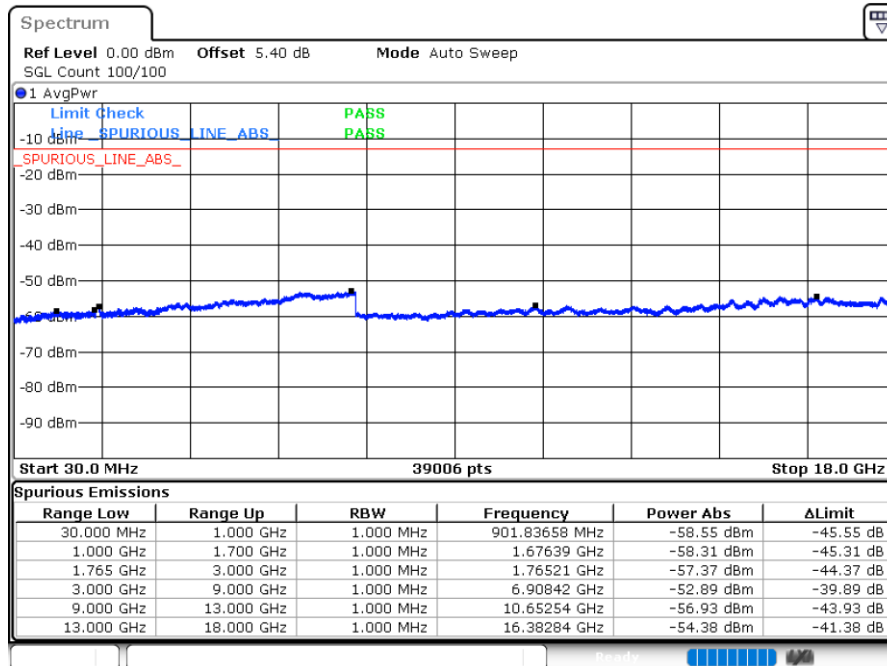


Date: 15.APR.2025 13:10:24



Date: 15.APR.2025 13:01:19

Highest Channel / QPSK



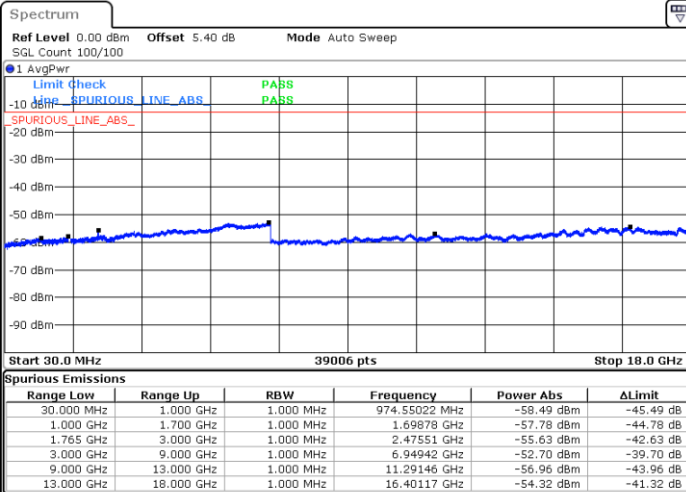
Date: 15.APR.2025 13:02:35



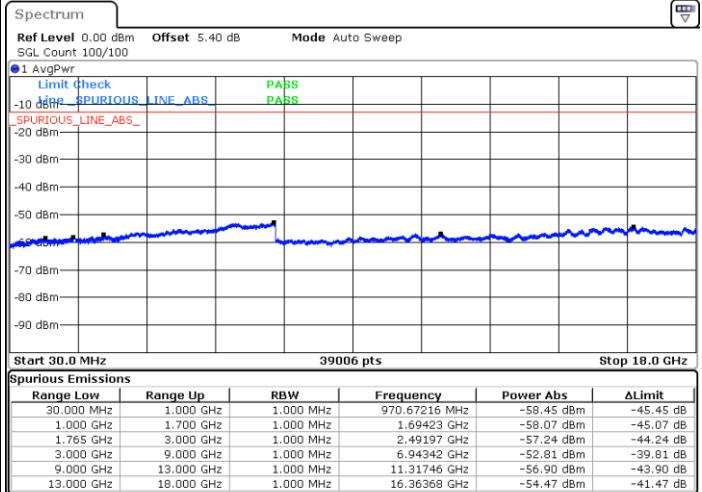
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

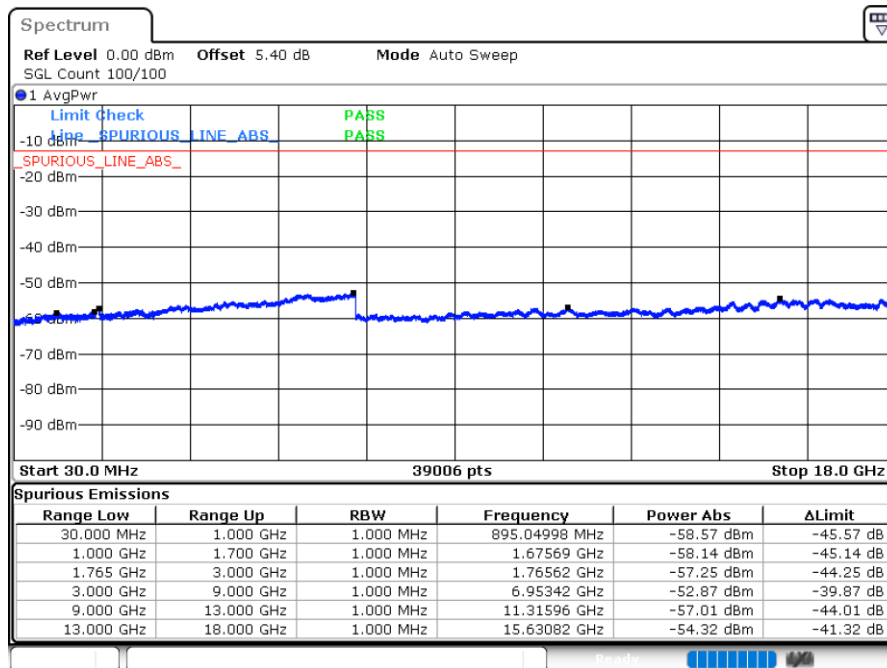


Date: 15.APR.2025 12:52:06



Date: 15.APR.2025 12:51:01

Highest Channel / QPSK



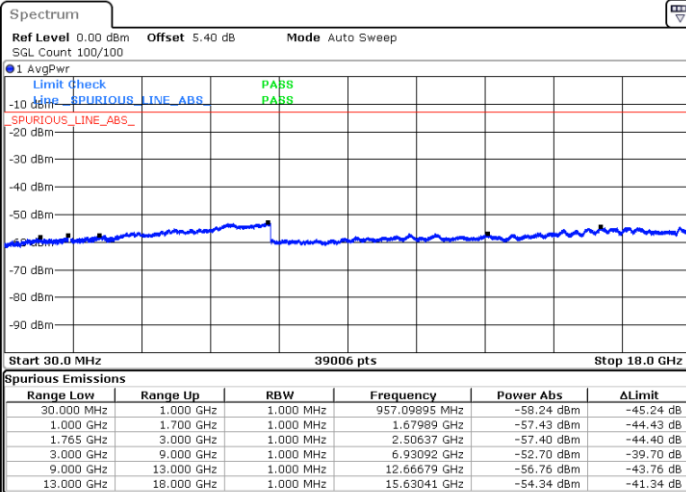
Date: 15.APR.2025 12:49:48



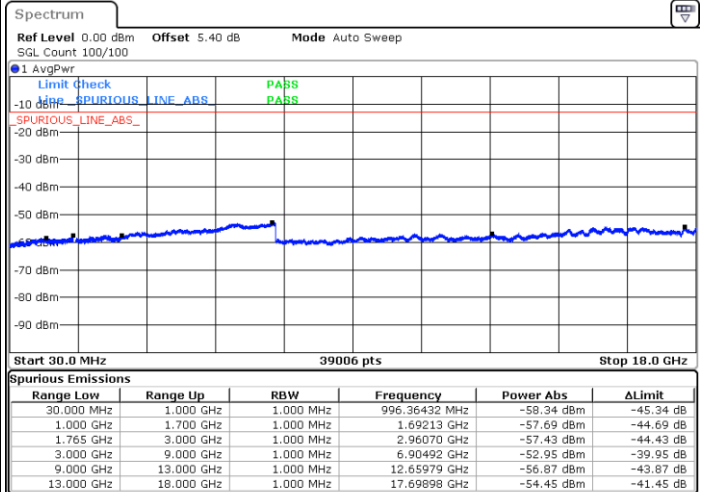
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

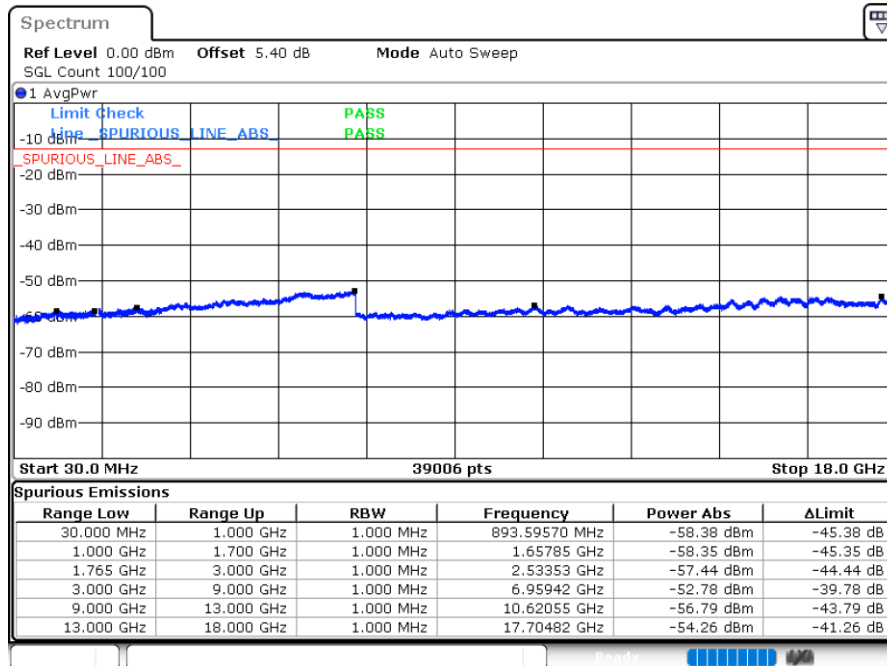


Date: 15.APR.2025 11:29:58



Date: 15.APR.2025 11:26:24

Highest Channel / QPSK



Date: 15.APR.2025 11:24:35

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	0.0015	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0031	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0028	

Note:

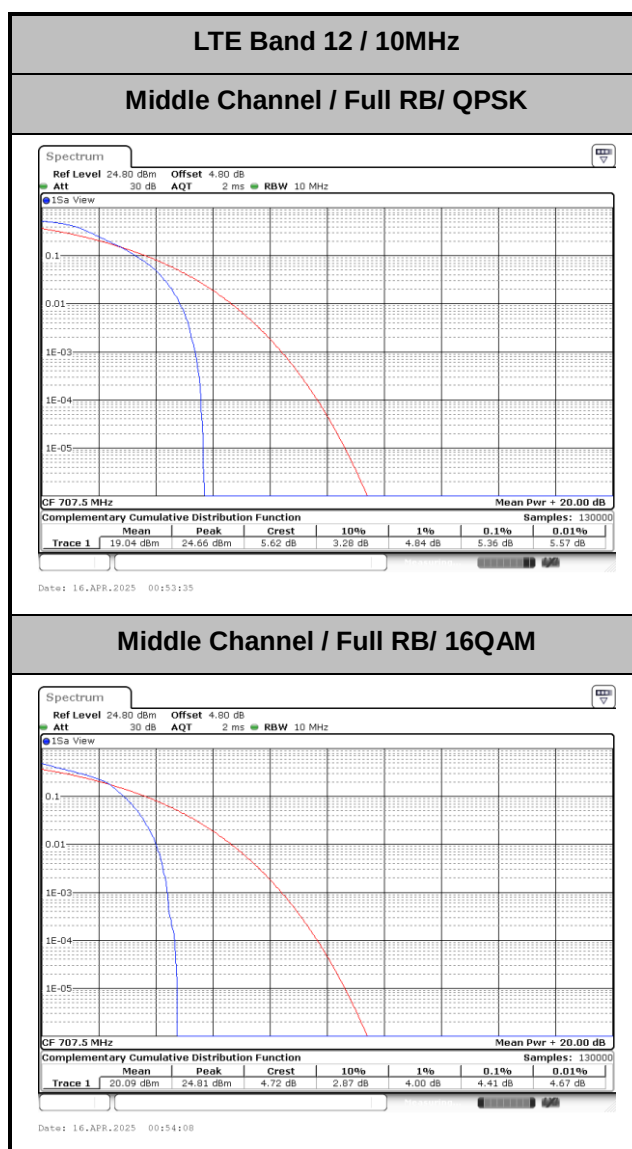
1. Normal Voltage = 3.89 V.; Battery End Point (BEP) =3.1 V.; Maximum Voltage = 4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

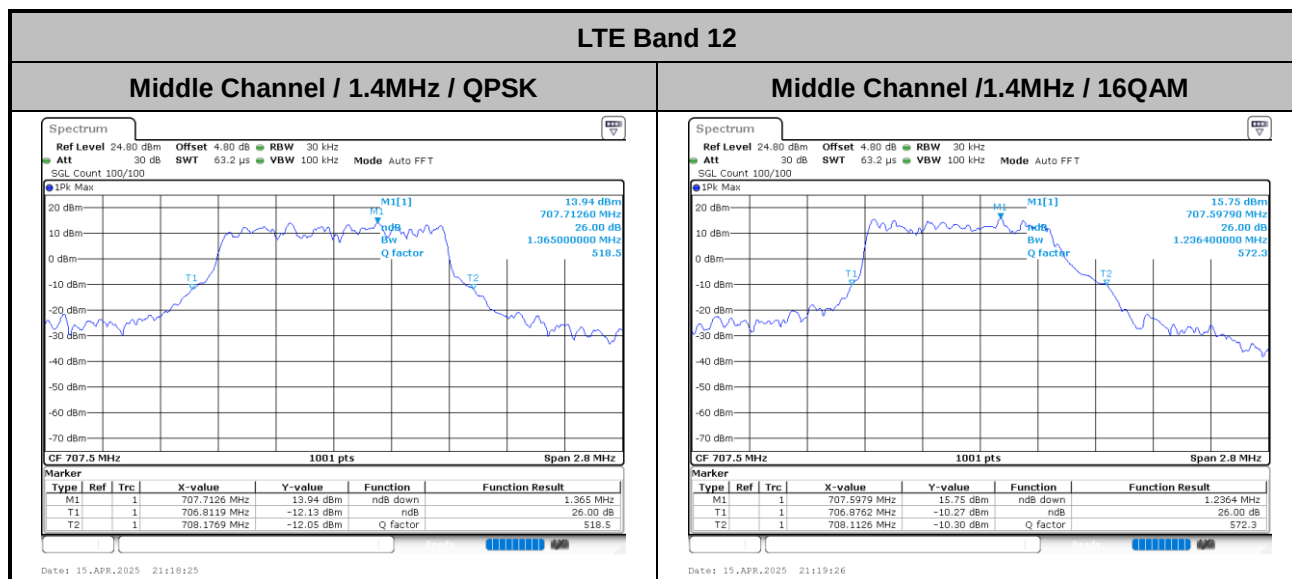
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.36	4.41	PASS



**26dB Bandwidth**

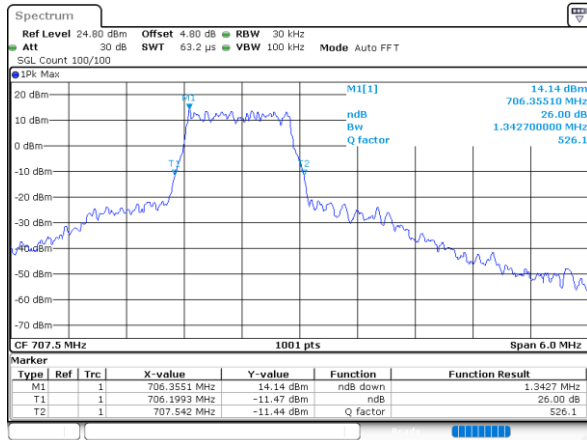
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.37	1.24
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	1.34	1.29
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	1.26	1.30
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	1.34	1.36



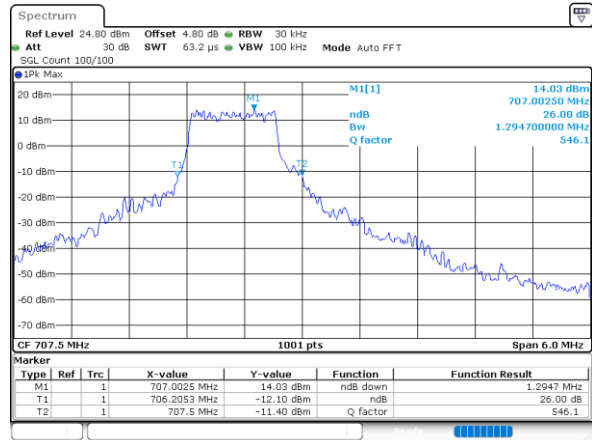


LTE Band 12

Middle Channel / 3MHz / QPSK

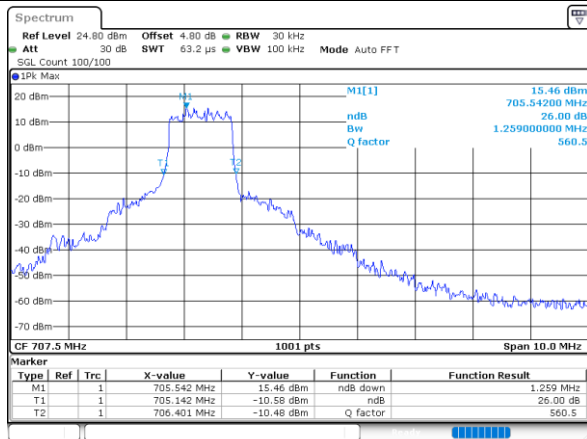


Middle Channel / 3MHz / 16QAM

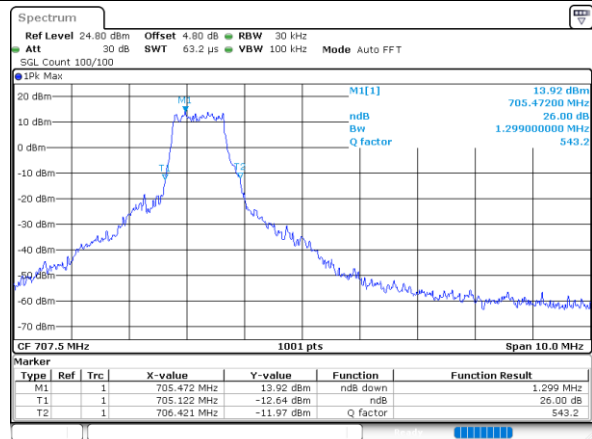


LTE Band 12

Middle Channel / 5MHz / QPSK

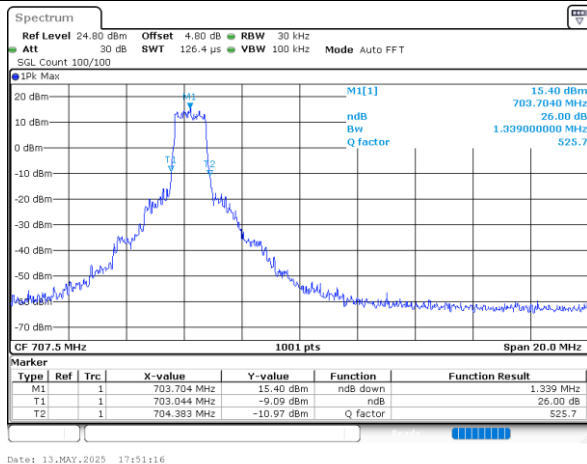


Middle Channel / 5MHz / 16QAM

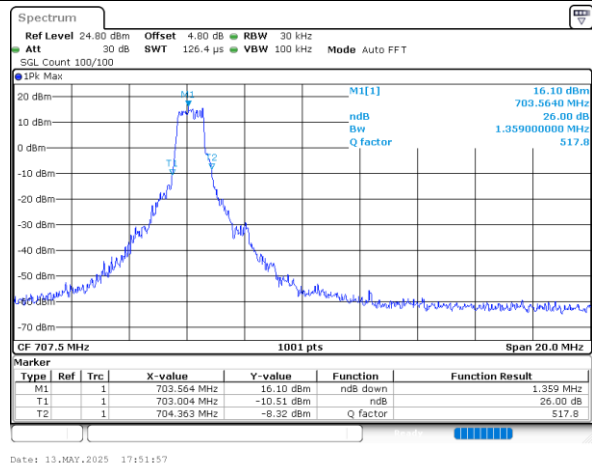


LTE Band 12

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM





Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.11	0.937
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	0.929
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.01
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	0.959

