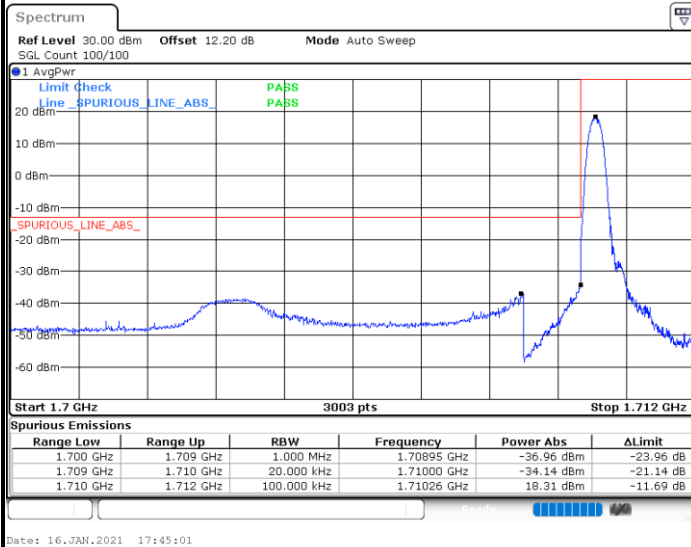


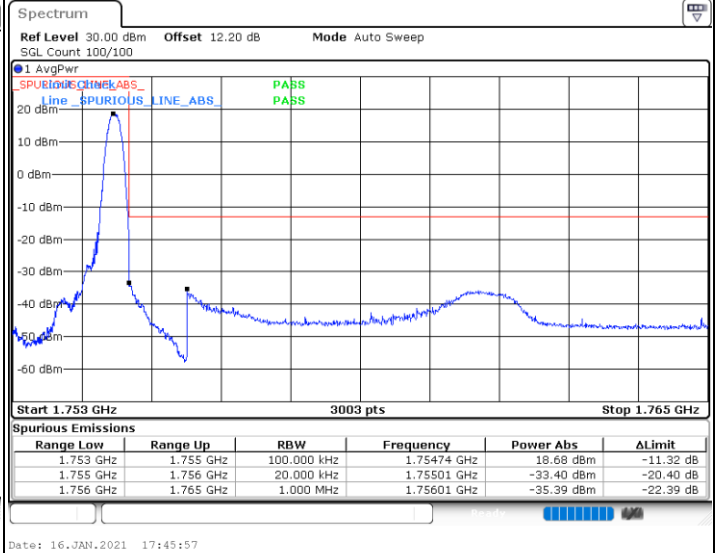


LTE Band 4 / 1.4MHz / 64QAM

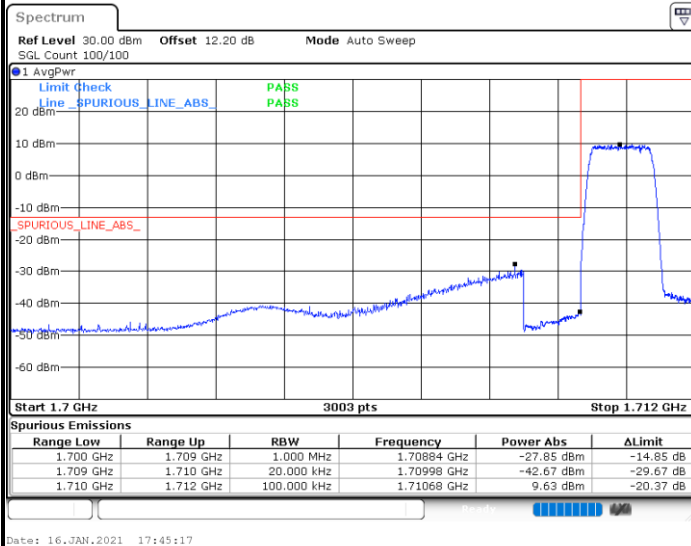
Lowest Band Edge / 1 RB



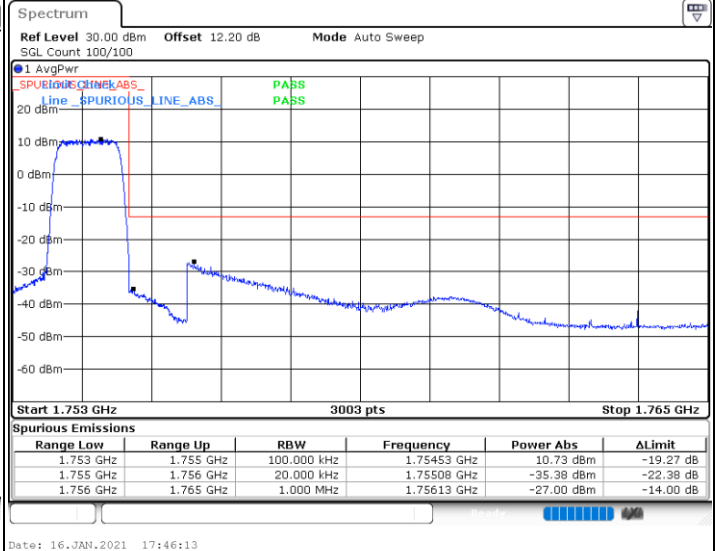
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



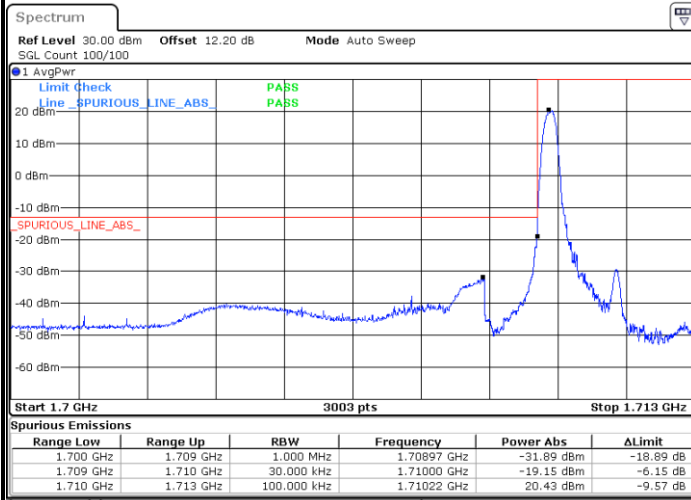
Highest Band Edge / Full RB



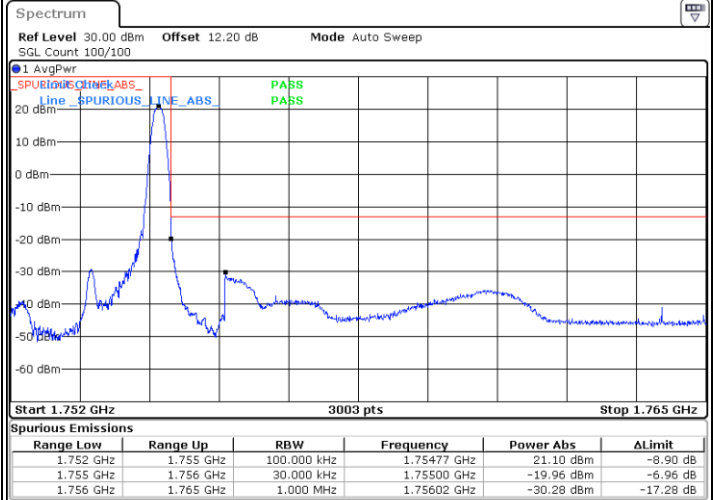


LTE Band 4 / 3MHz / QPSK

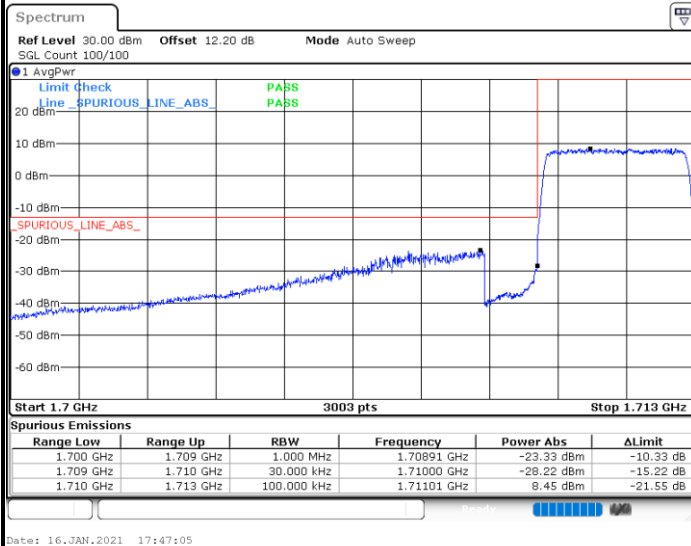
Lowest Band Edge / 1RB



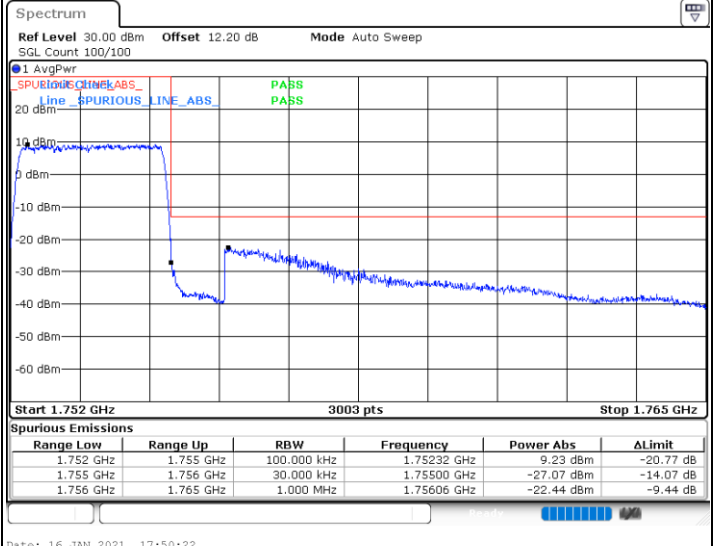
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



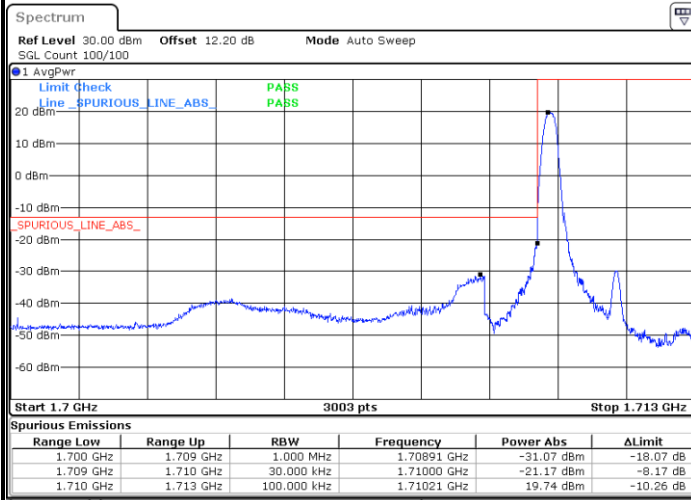
Highest Band Edge / Full RB



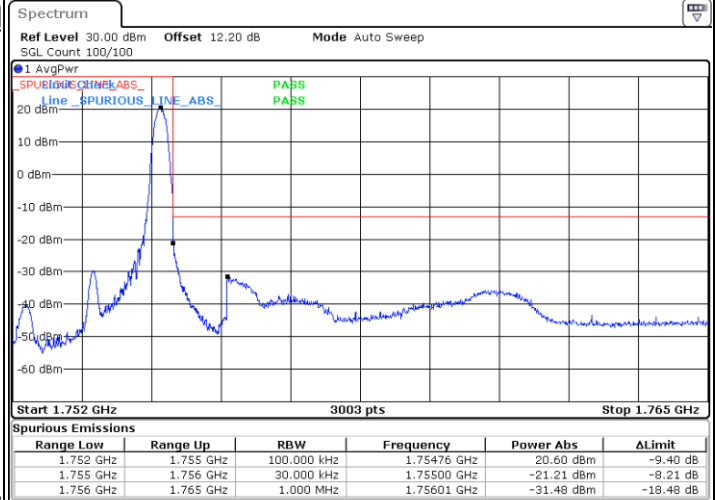


LTE Band 4 / 3MHz / 16QAM

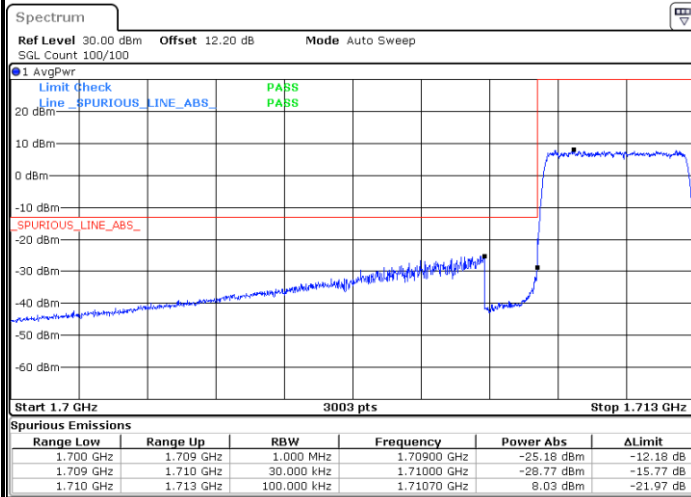
Lowest Band Edge / 1 RB



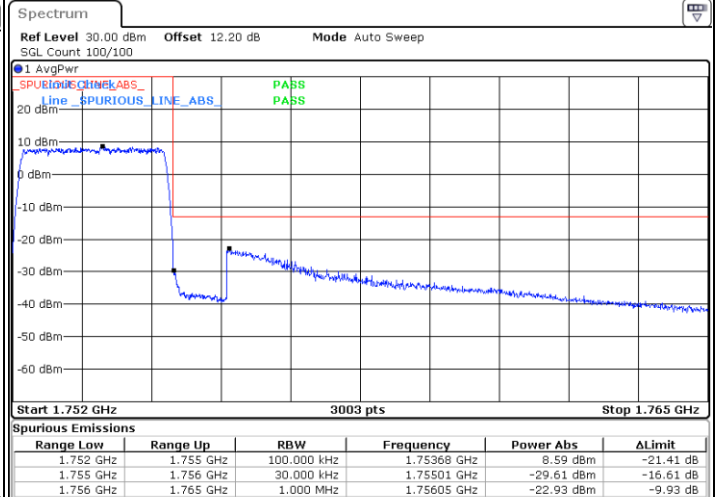
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



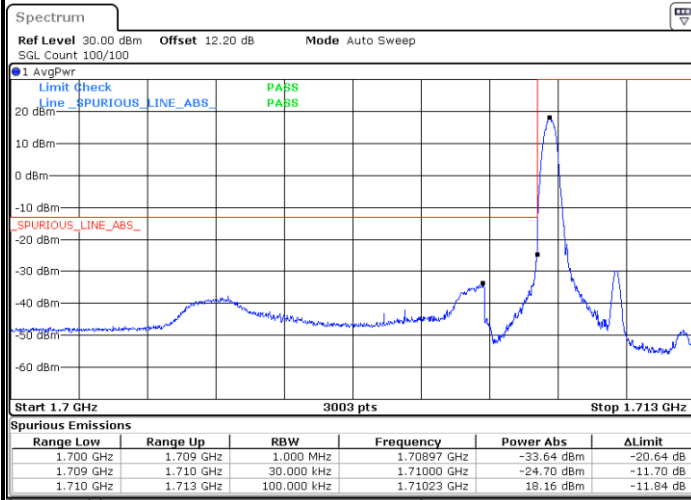
Highest Band Edge / Full RB



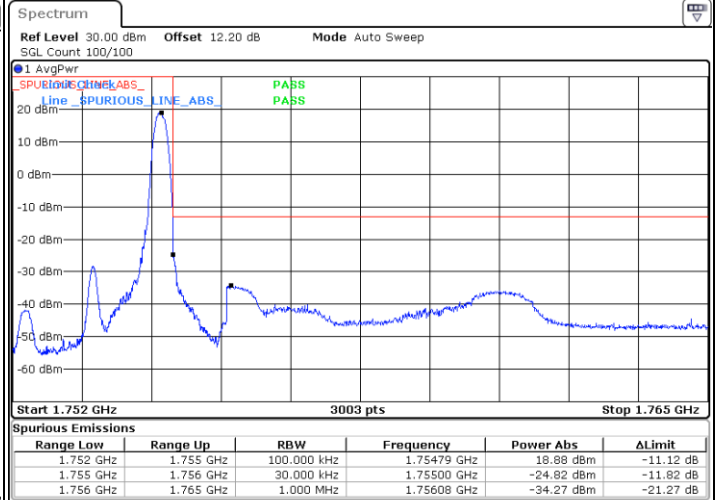


LTE Band 4 / 3MHz / 64QAM

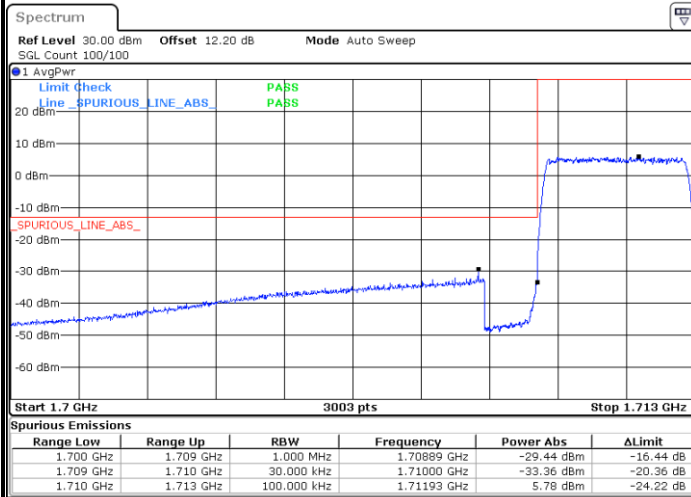
Lowest Band Edge / 1 RB



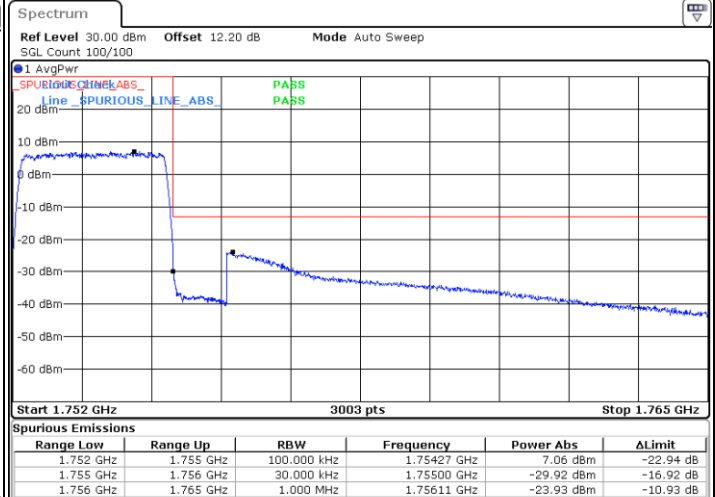
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



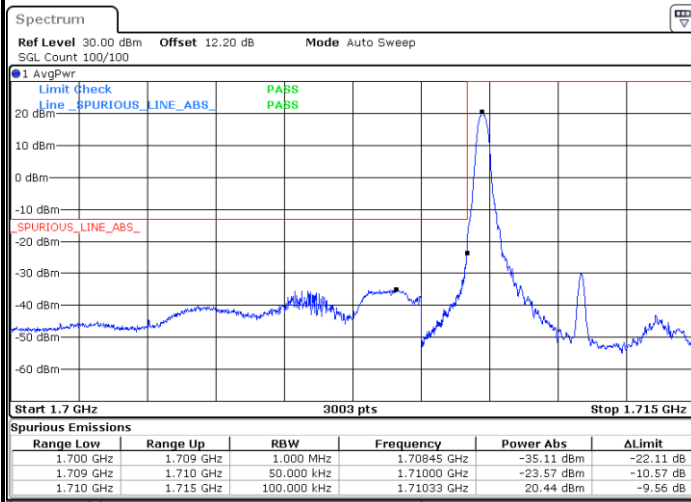
Highest Band Edge / Full RB



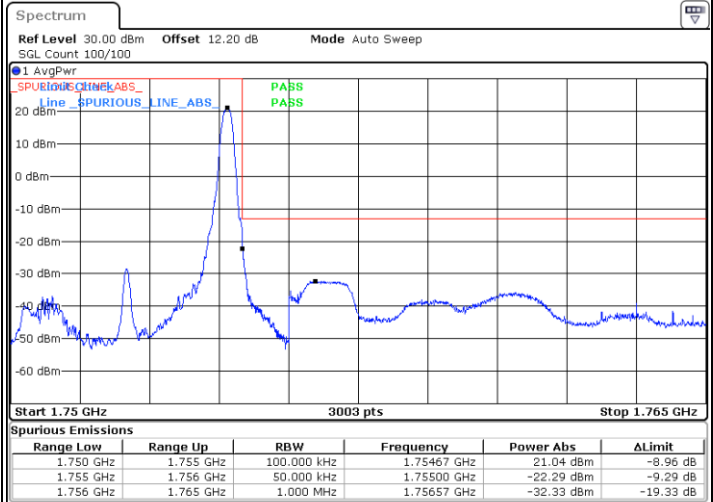


LTE Band 4 / 5MHz / QPSK

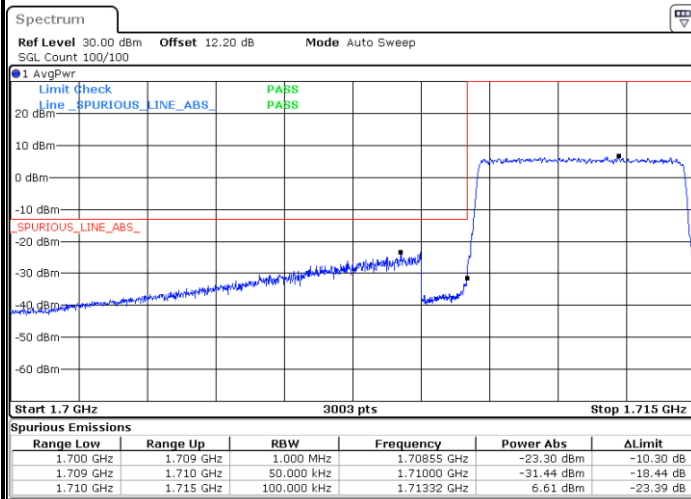
Lowest Band Edge / 1 RB



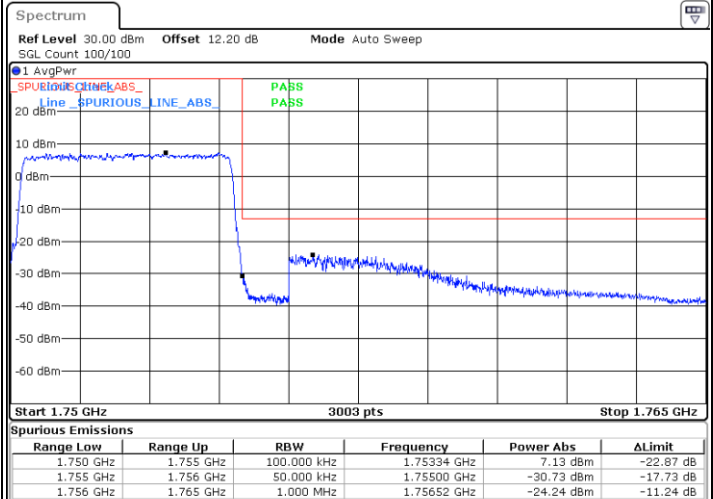
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



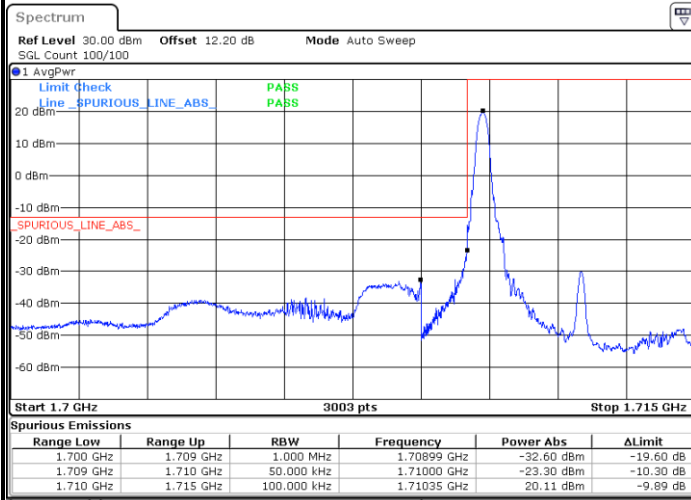
Highest Band Edge / Full RB



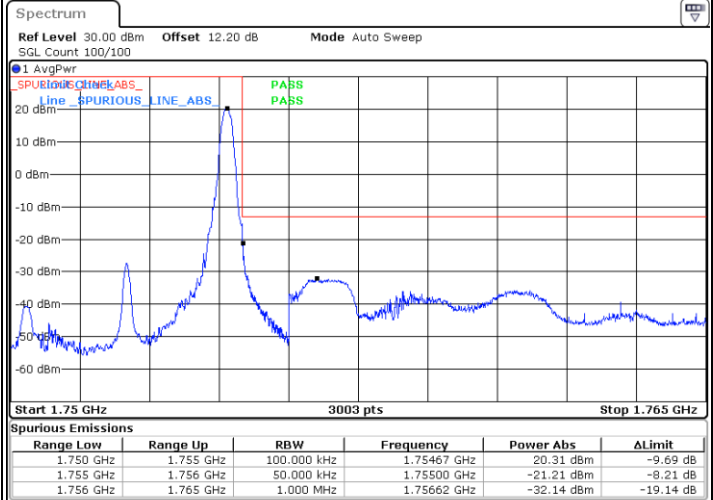


LTE Band 4 / 5MHz / 16QAM

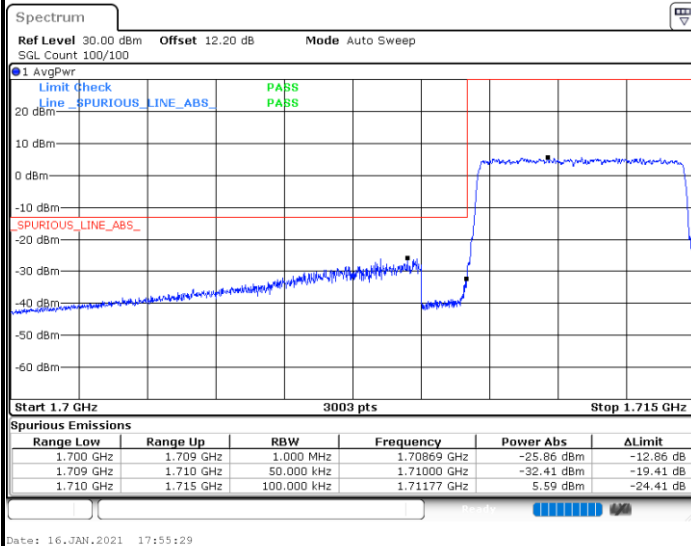
Lowest Band Edge / 1RB



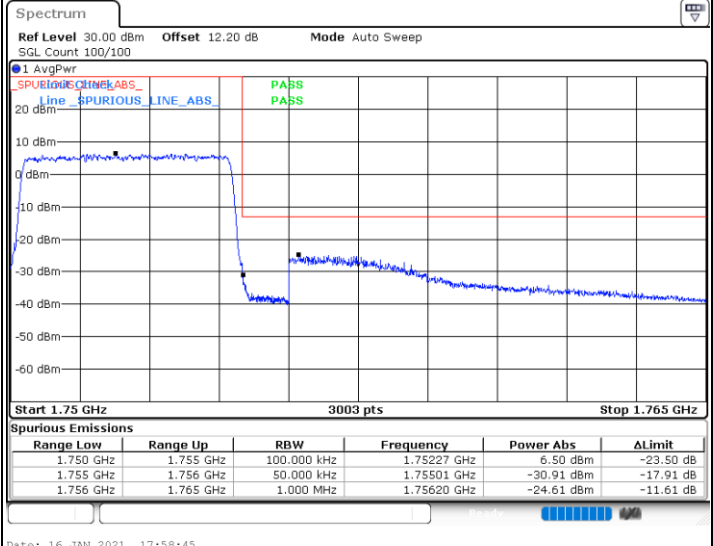
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



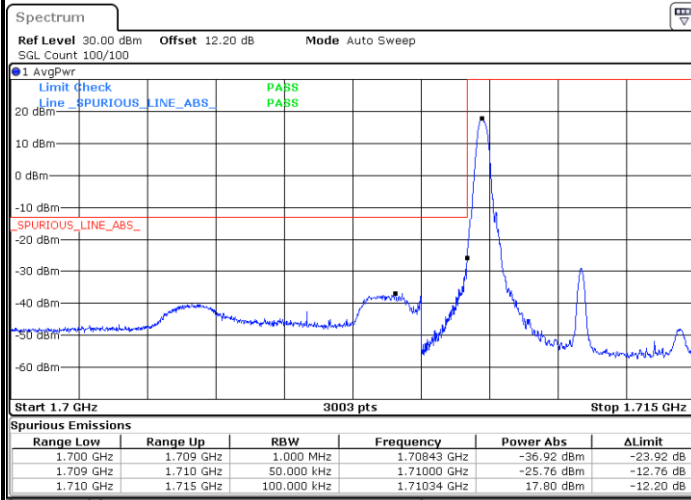
Highest Band Edge / Full RB





LTE Band 4 / 5MHz / 64QAM

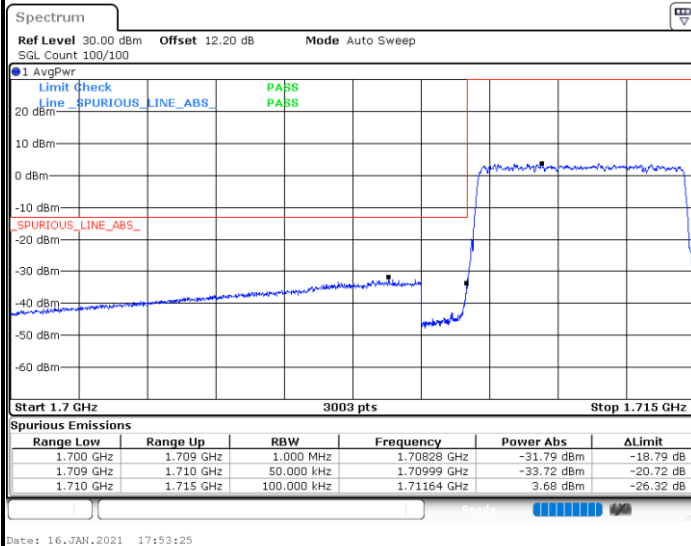
Lowest Band Edge / 1RB



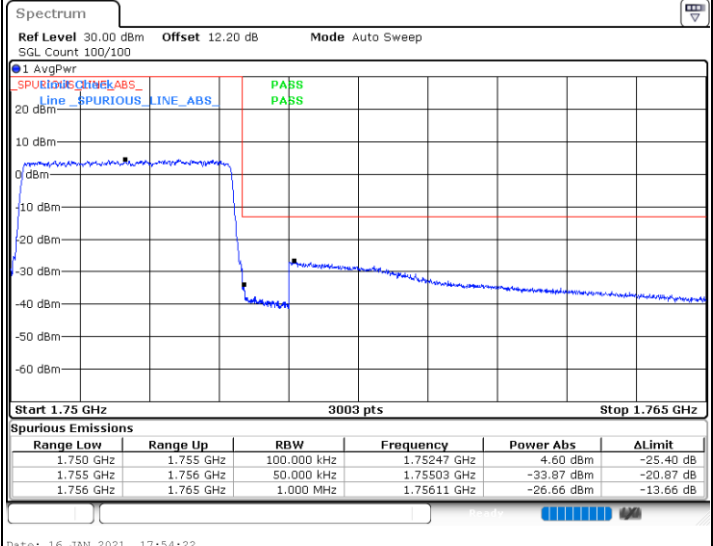
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



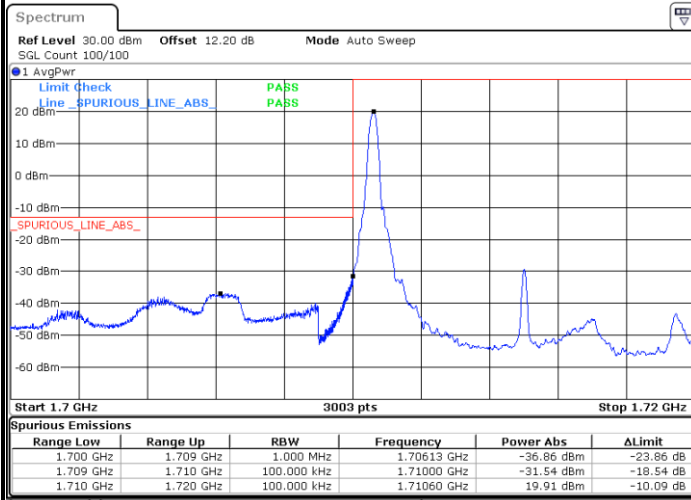
Highest Band Edge / Full RB



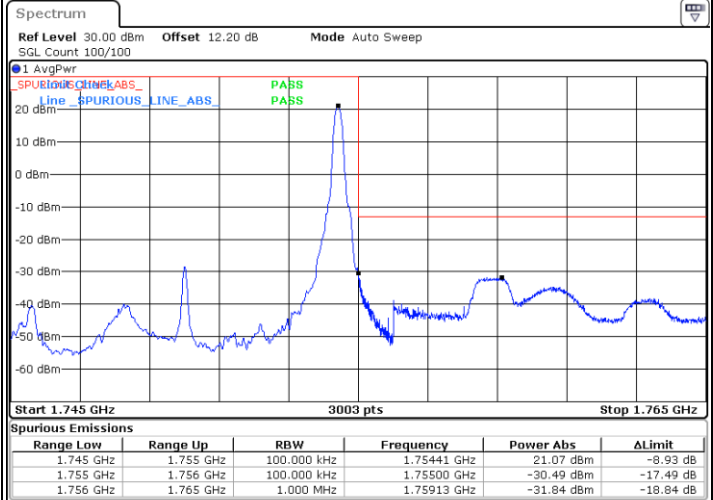


LTE Band 4 / 10MHz / QPSK

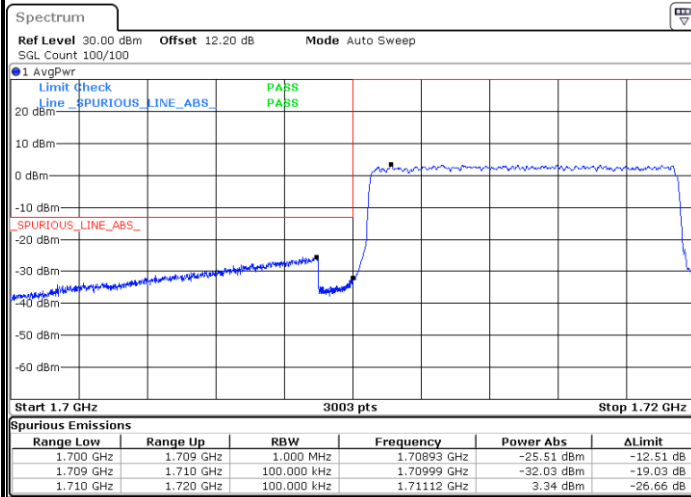
Lowest Band Edge / 1 RB



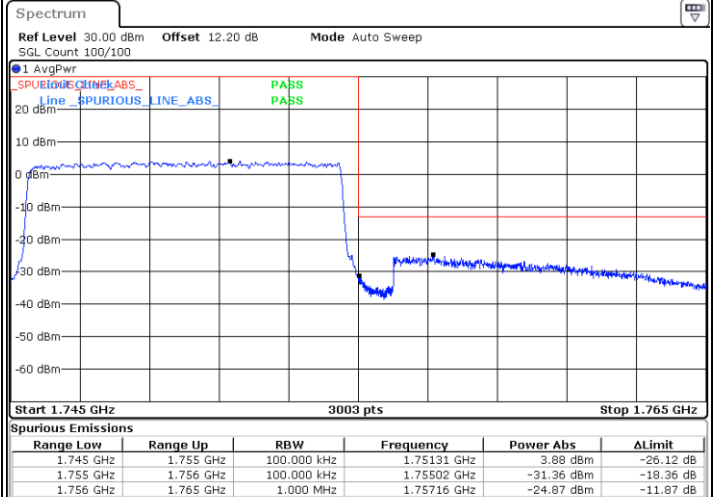
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



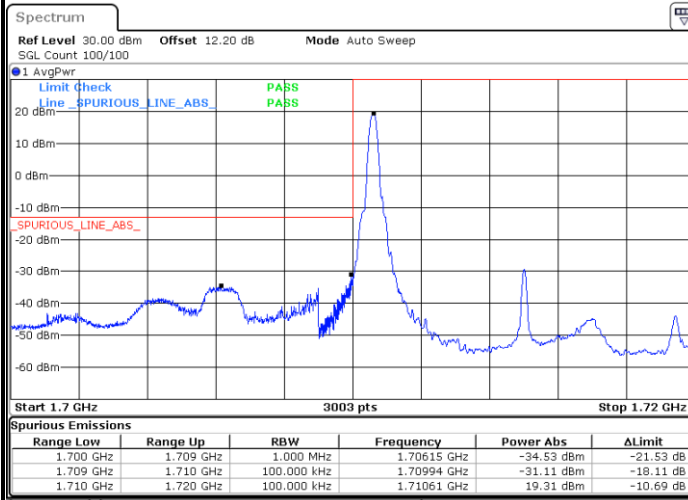
Highest Band Edge / Full RB



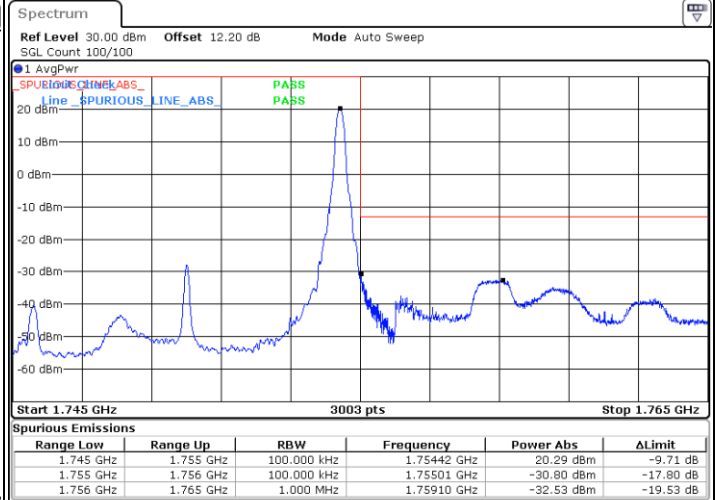


LTE Band 4 / 10MHz / 16QAM

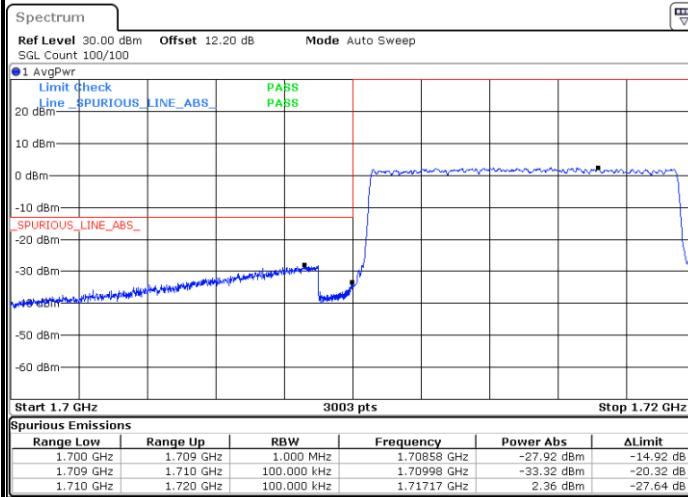
Lowest Band Edge / 1 RB



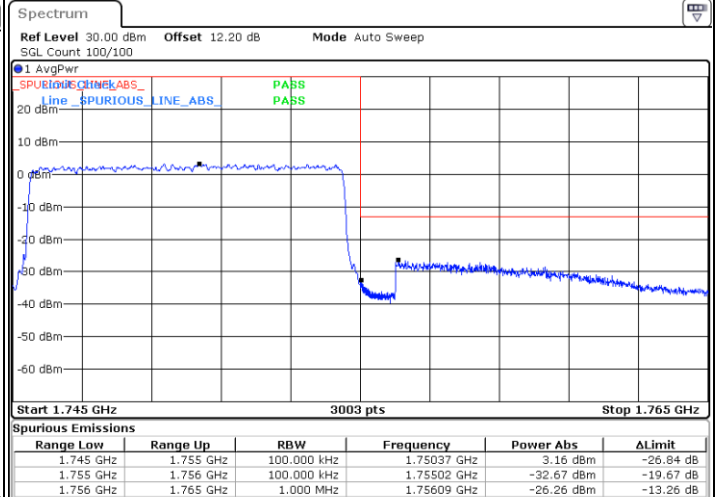
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



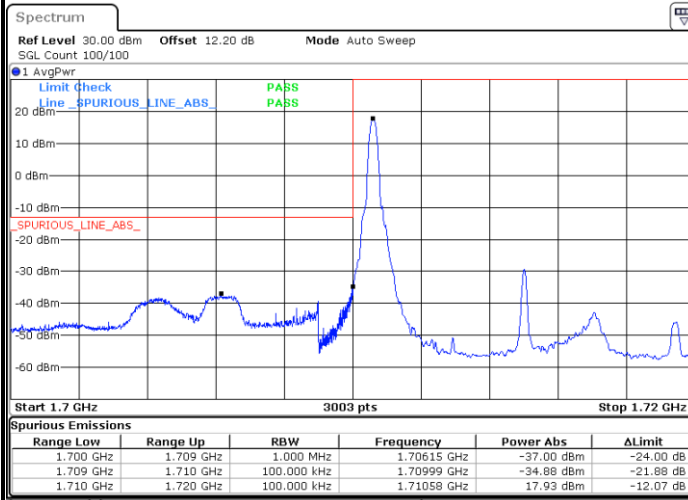
Highest Band Edge / Full RB



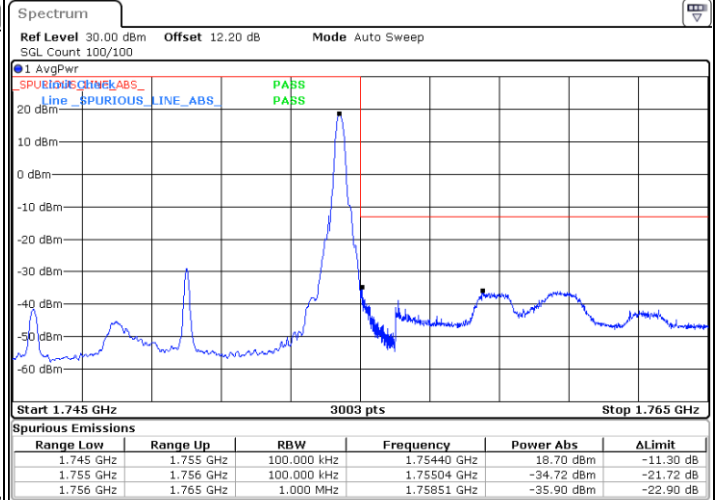


LTE Band 4 / 10MHz / 64QAM

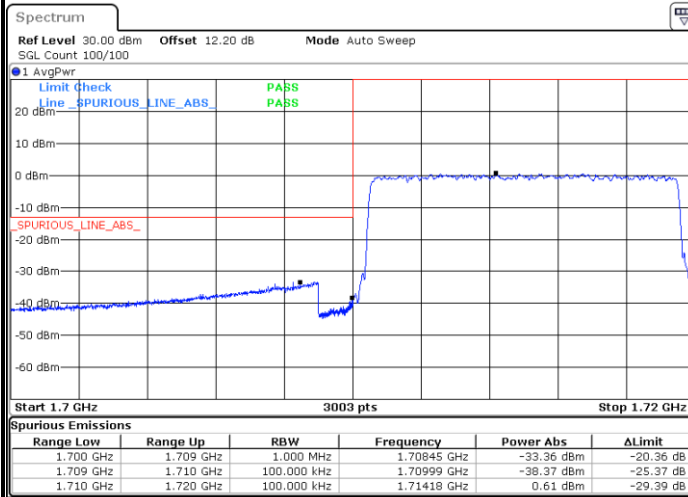
Lowest Band Edge / 1 RB



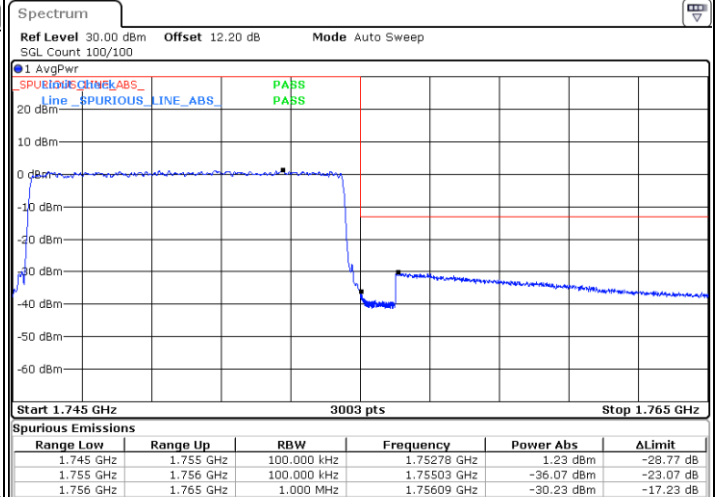
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



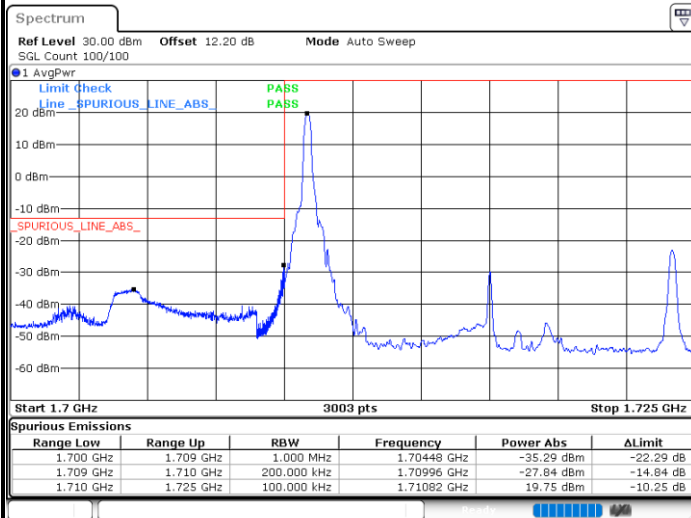
Highest Band Edge / Full RB



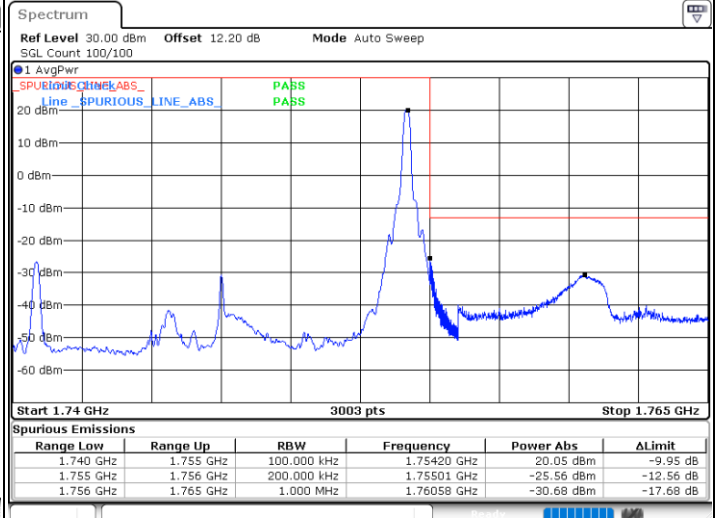


LTE Band 4 / 15MHz / QPSK

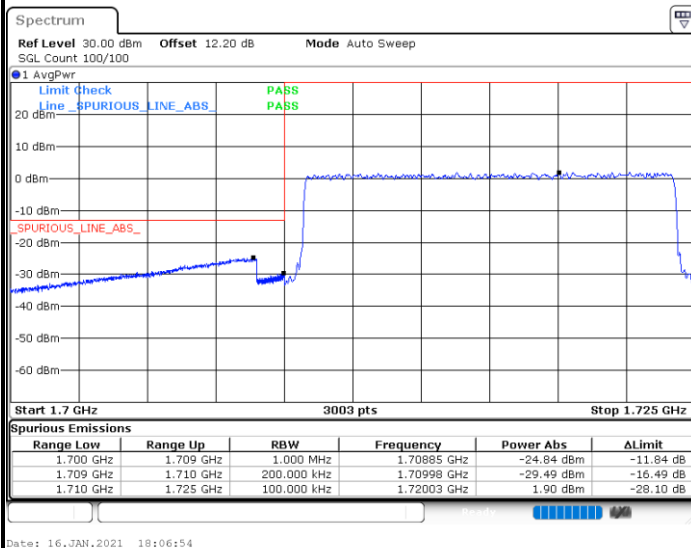
Lowest Band Edge / 1 RB



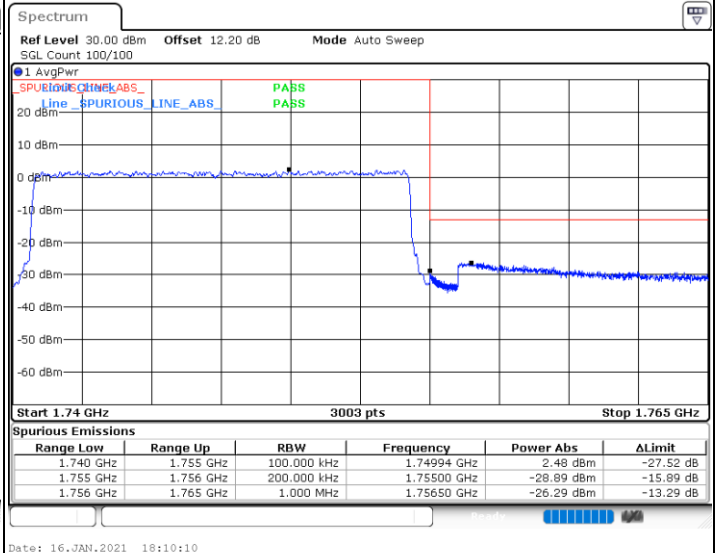
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



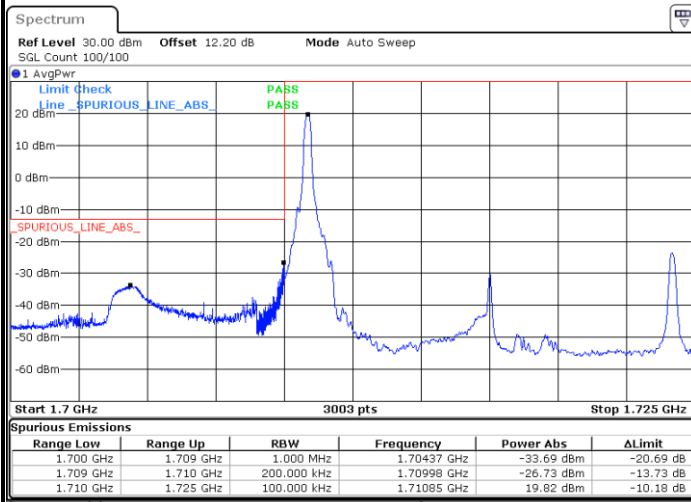
Highest Band Edge / Full RB



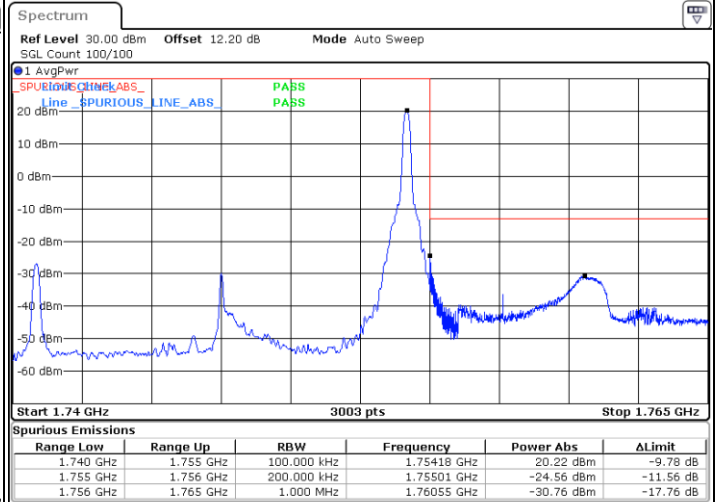


LTE Band 4 / 15MHz / 16QAM

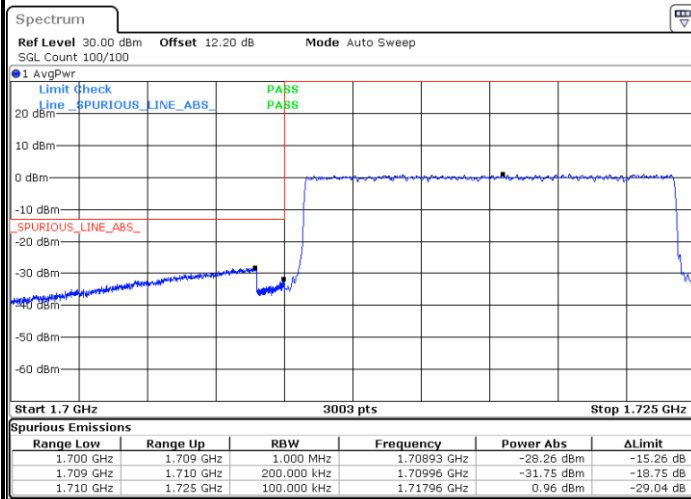
Lowest Band Edge / 1 RB



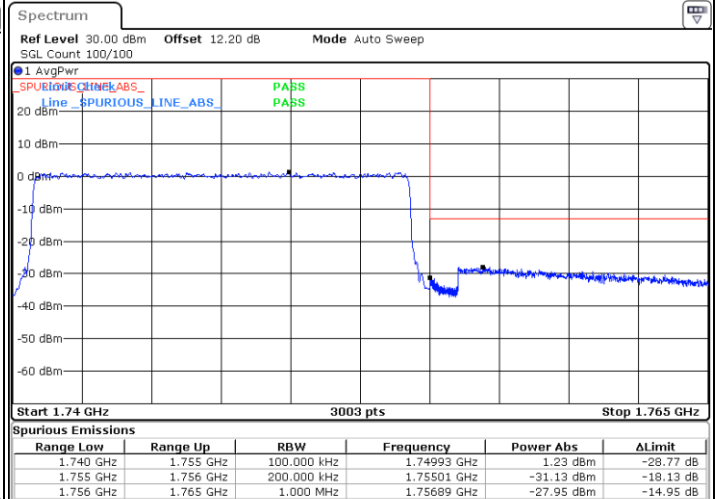
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



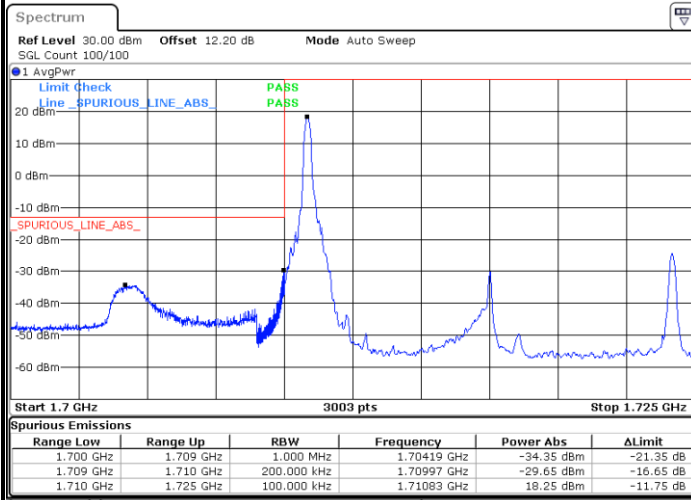
Highest Band Edge / Full RB



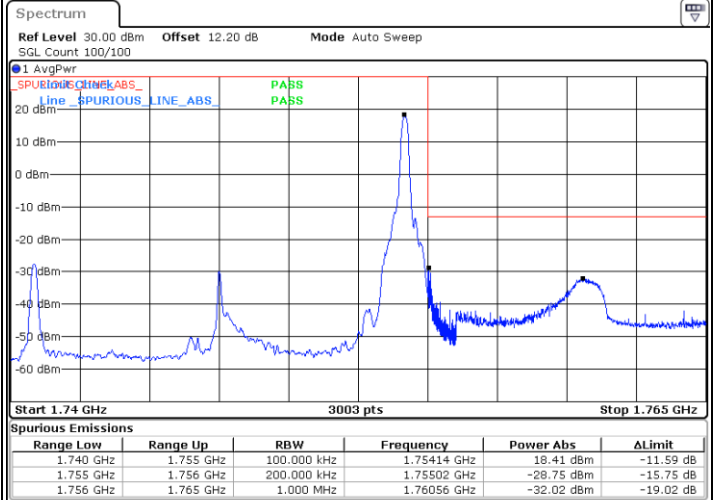


LTE Band 4 / 15MHz / 64QAM

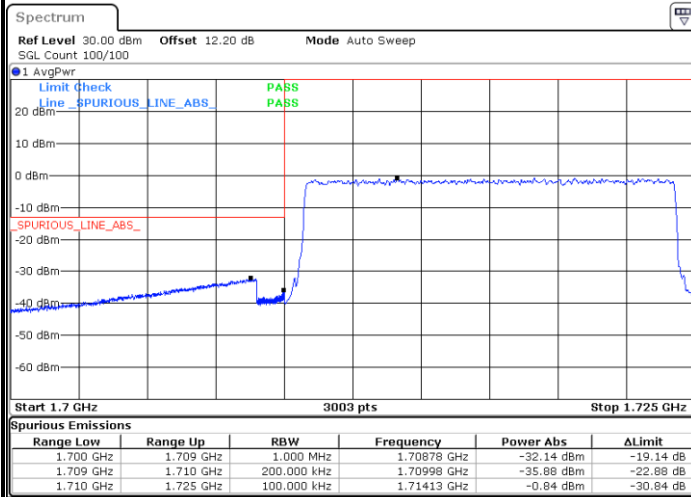
Lowest Band Edge / 1 RB



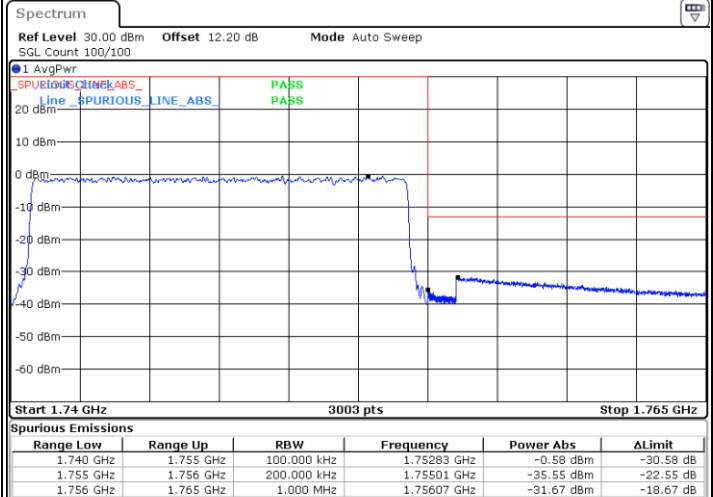
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



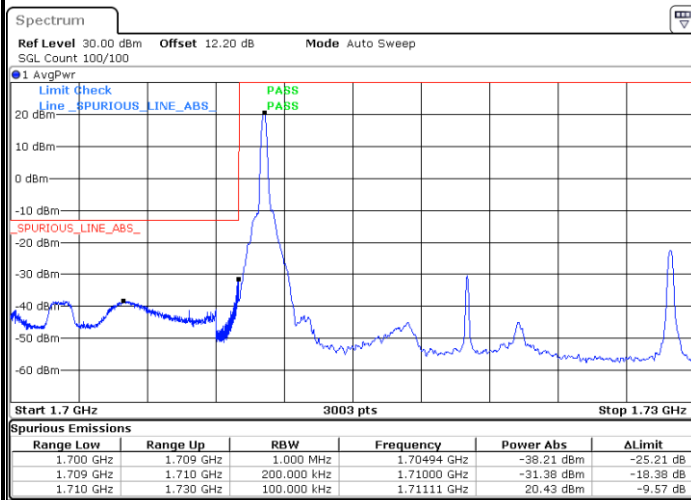
Highest Band Edge / Full RB



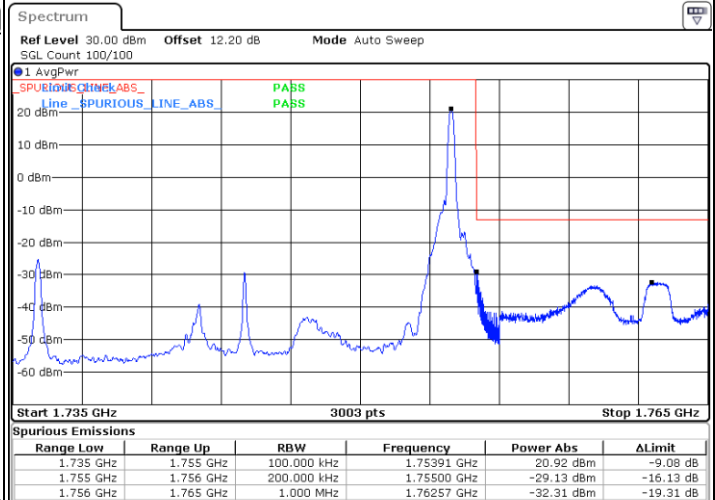


LTE Band 4 / 20MHz / QPSK

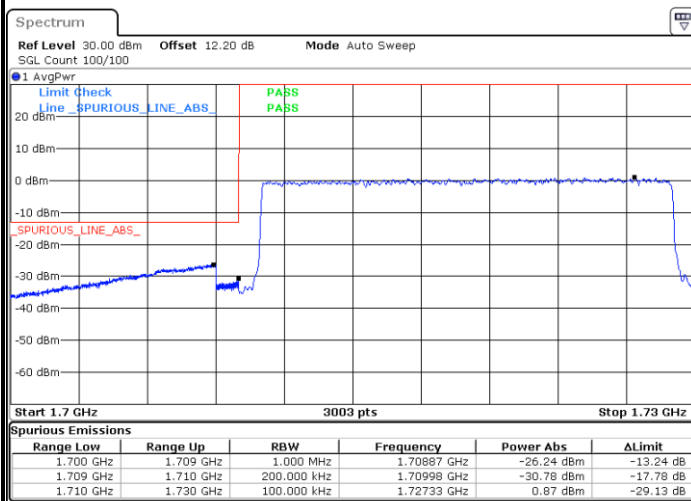
Lowest Band Edge / 1 RB



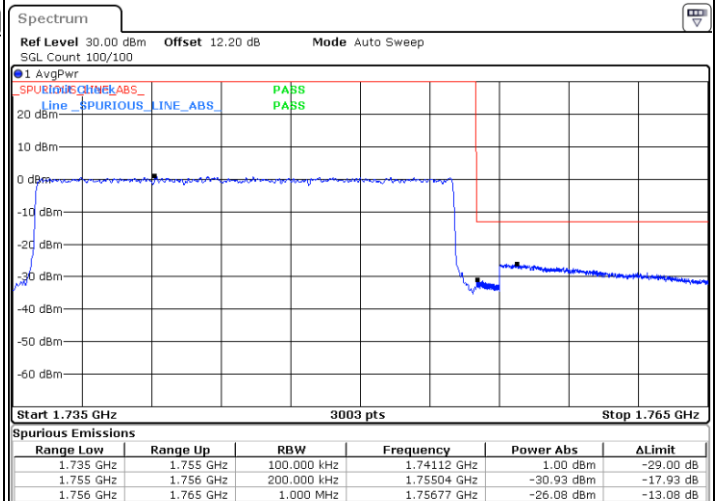
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



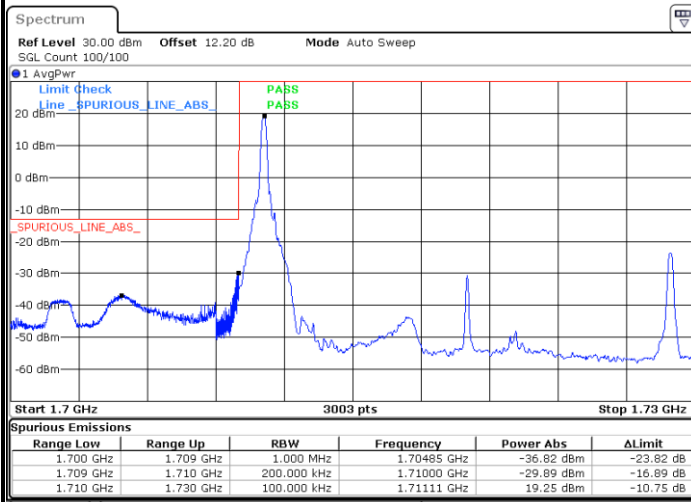
Highest Band Edge / Full RB



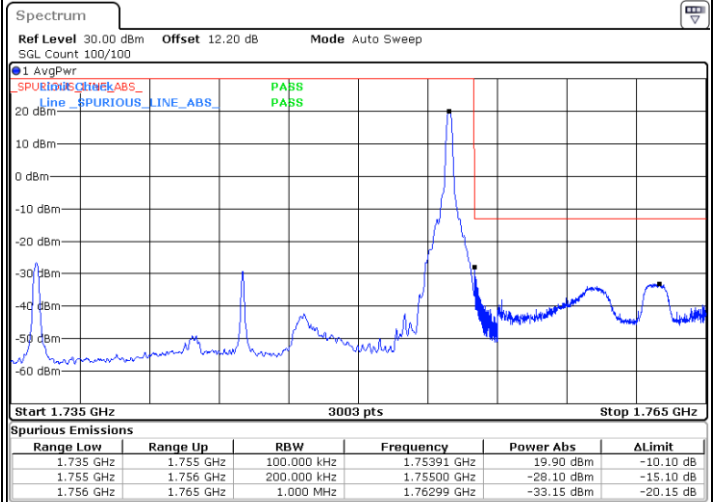


LTE Band 4 / 20MHz / 16QAM

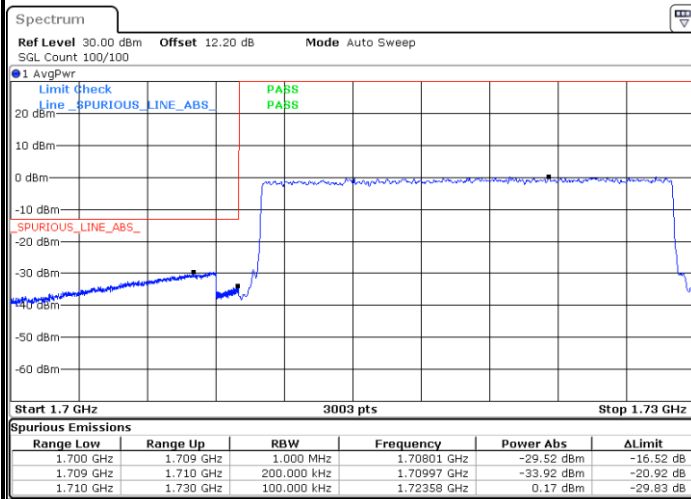
Lowest Band Edge / 1 RB



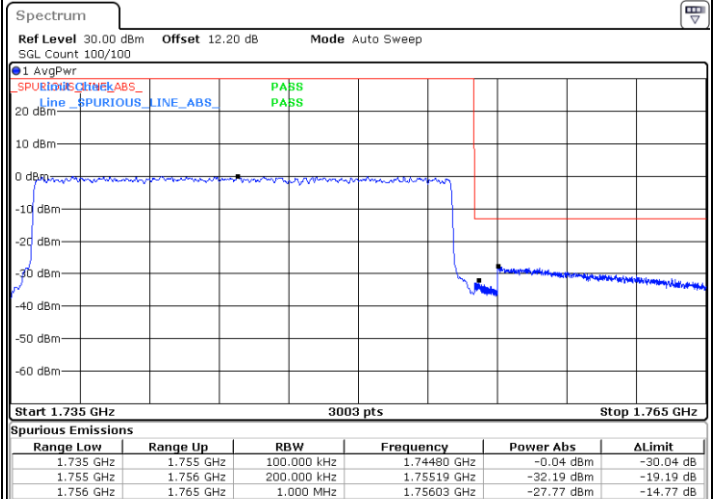
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



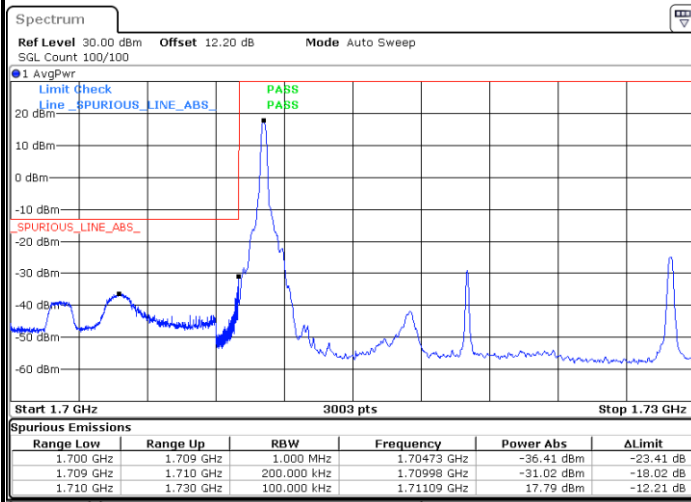
Highest Band Edge / Full RB



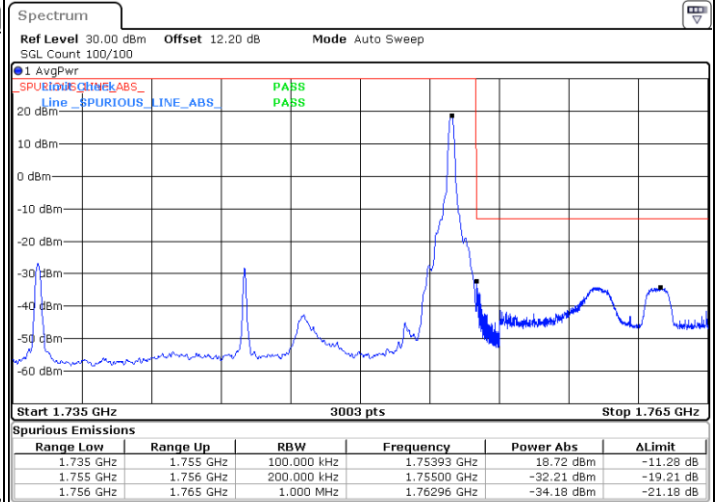


LTE Band 4 / 20MHz / 64QAM

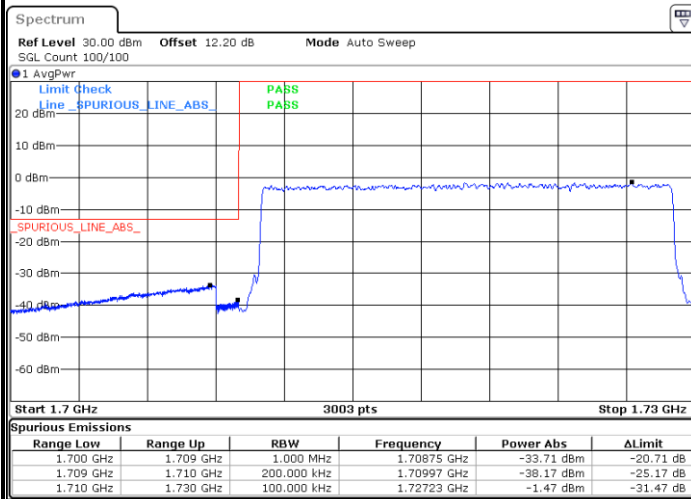
Lowest Band Edge / 1 RB



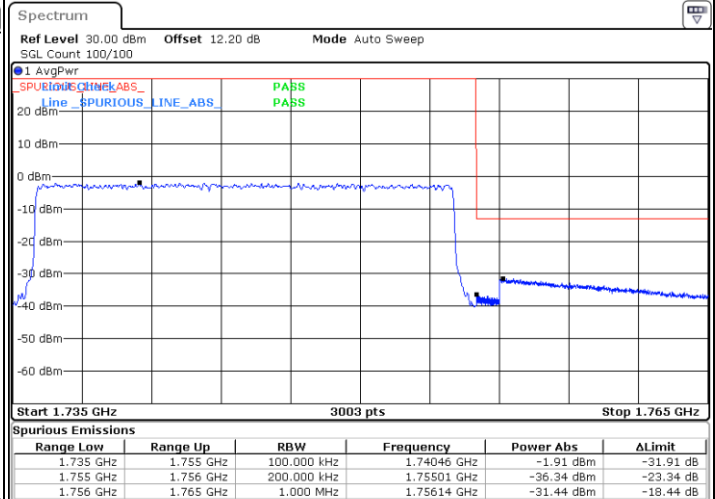
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

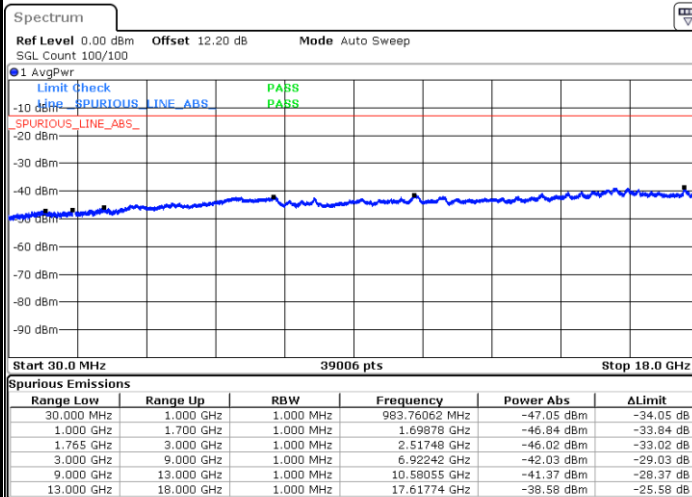




Conducted Spurious Emission

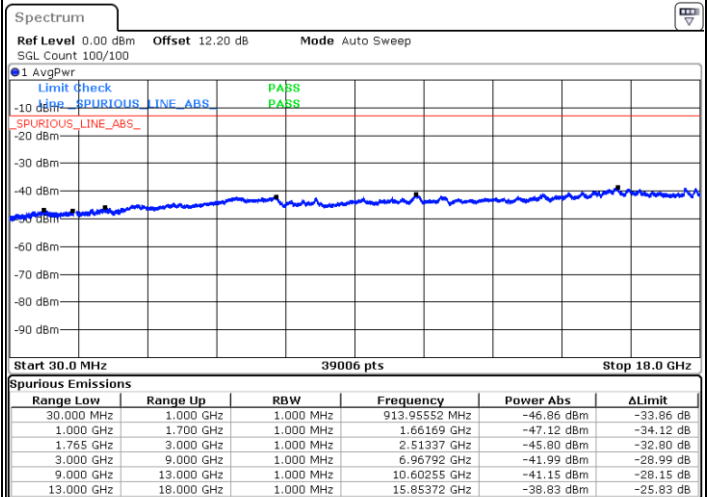
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



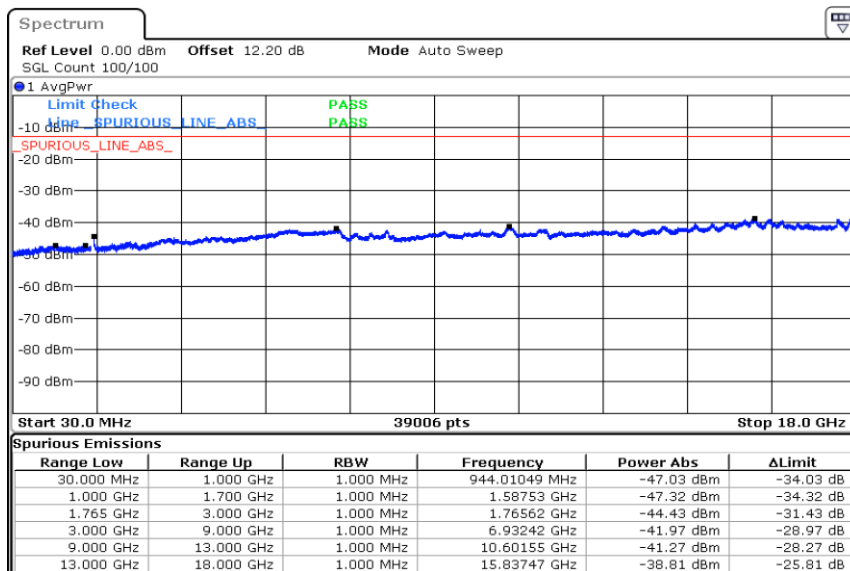
Date: 16.JAN.2021 17:41:27

Middle Channel / QPSK



Date: 16.JAN.2021 17:42:54

Highest Channel / QPSK

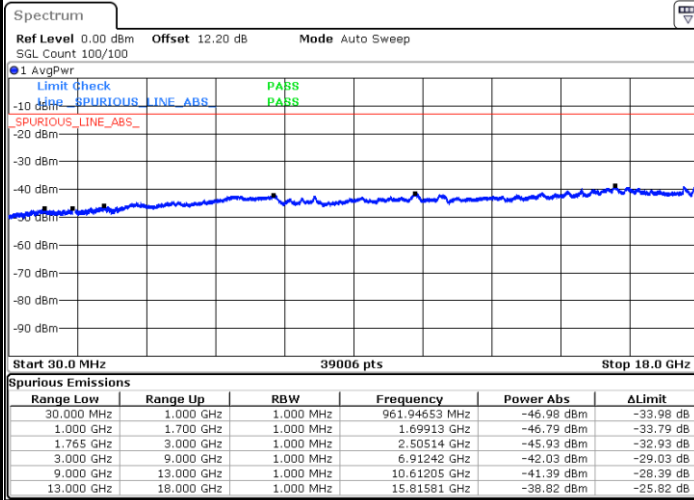


Date: 16.JAN.2021 17:44:43



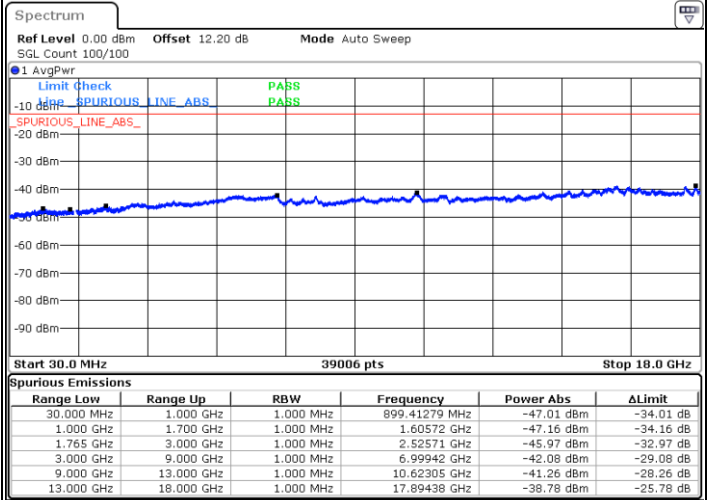
LTE Band 4 / 3MHz

Lowest Channel / QPSK



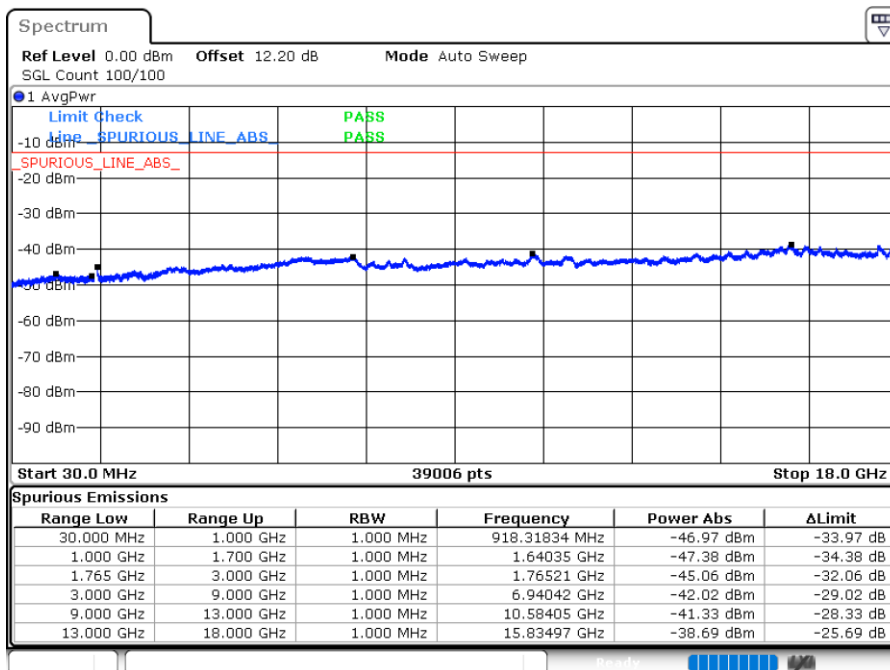
Date: 16.JAN.2021 17:48:04

Middle Channel / QPSK



Date: 16.JAN.2021 17:49:31

Highest Channel / QPSK

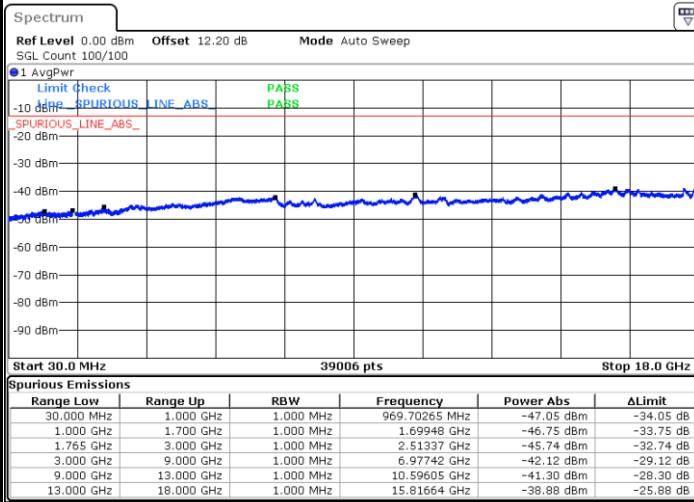


Date: 16.JAN.2021 17:51:20



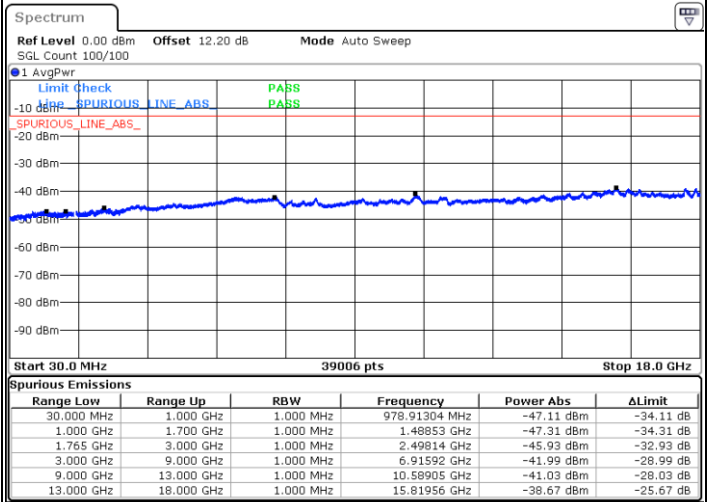
LTE Band 4 / 5MHz

Lowest Channel / QPSK



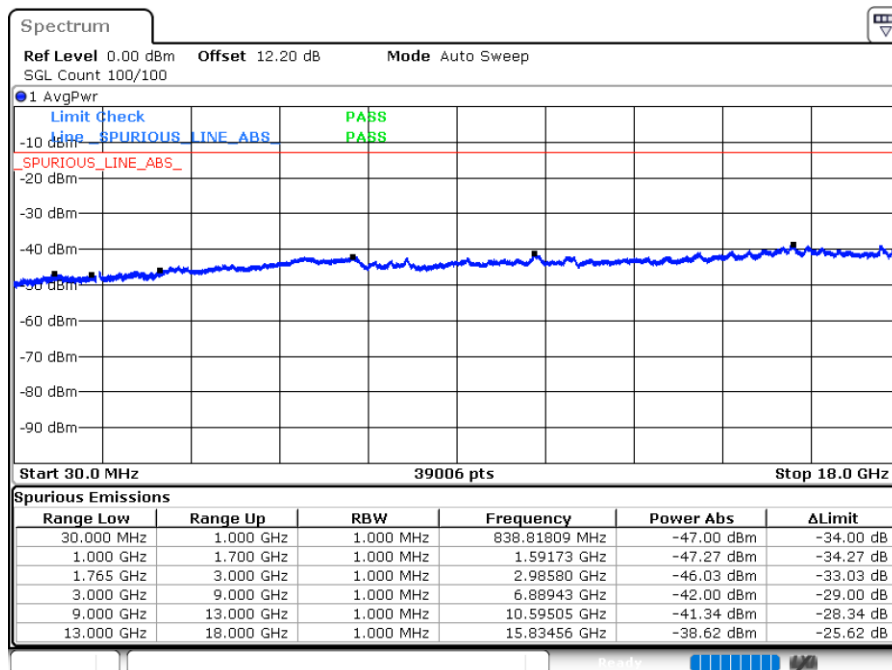
Date: 16.JAN.2021 17:56:10

Middle Channel / QPSK



Date: 16.JAN.2021 17:57:38

Highest Channel / QPSK

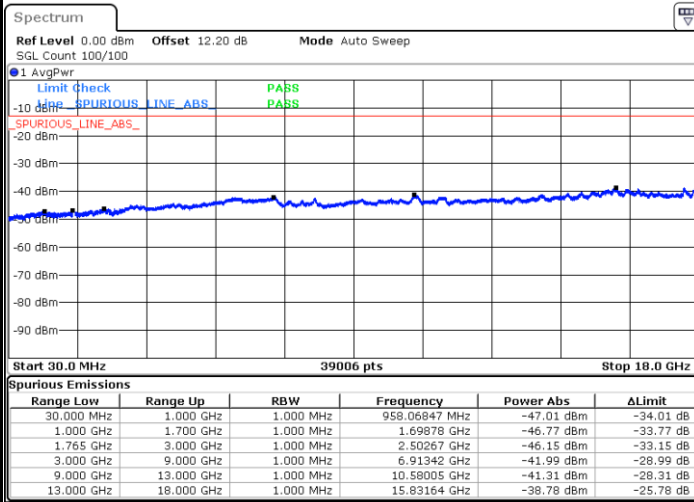


Date: 16.JAN.2021 17:59:27



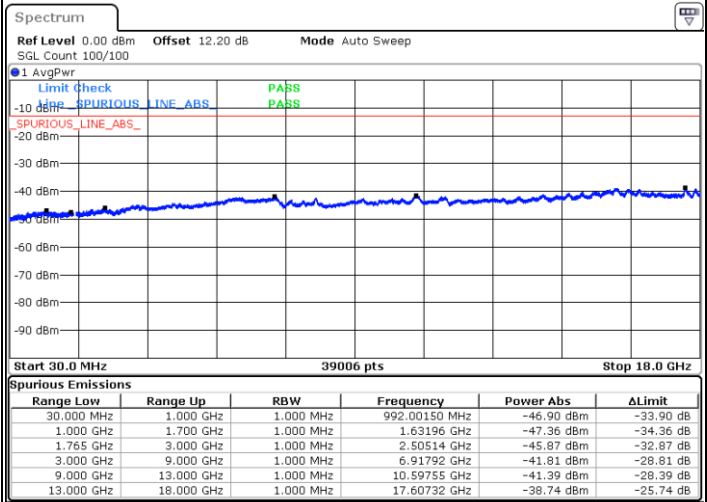
LTE Band 4 / 10MHz

Lowest Channel / QPSK



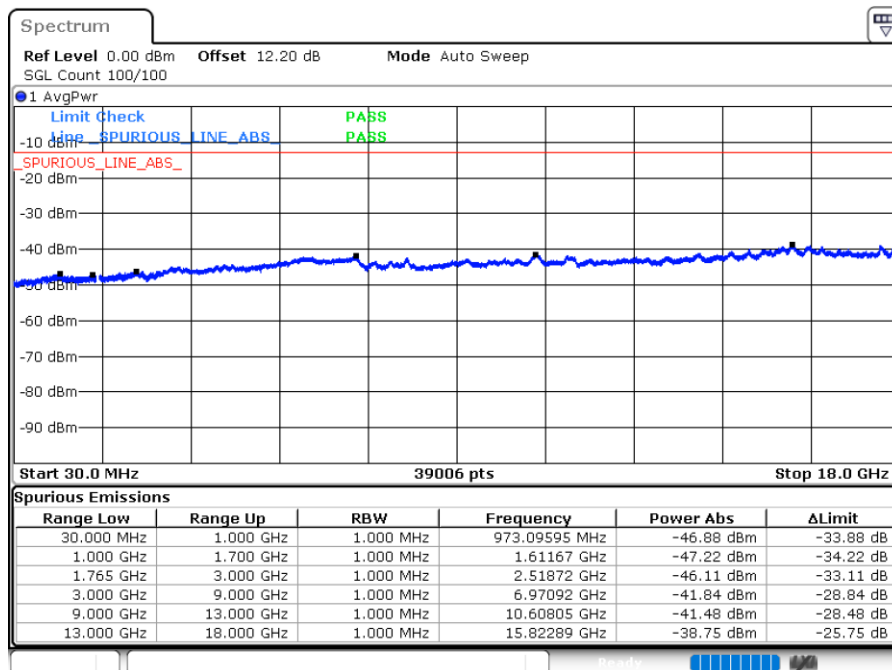
Date: 16.JAN.2021 18:01:17

Middle Channel / QPSK



Date: 16.JAN.2021 18:02:44

Highest Channel / QPSK

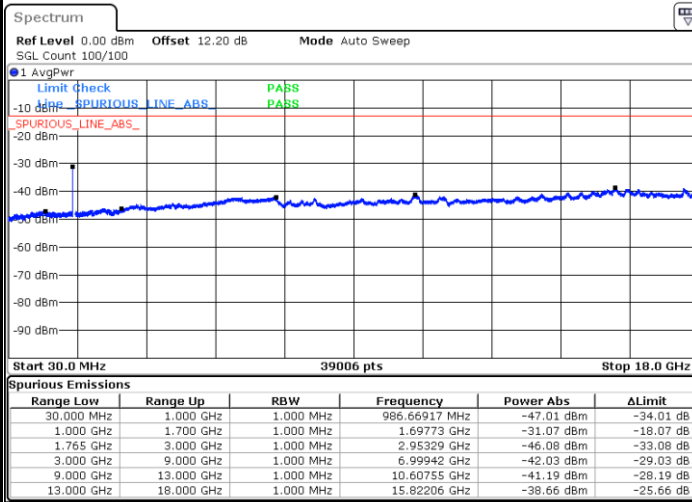


Date: 16.JAN.2021 18:04:33



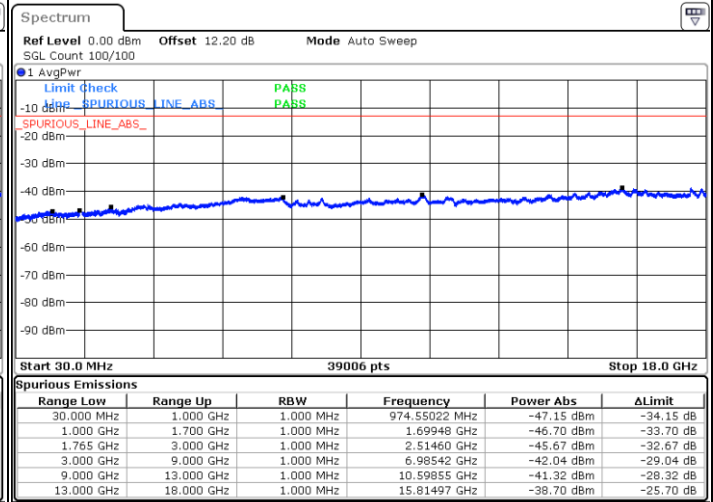
LTE Band 4 / 15MHz

Lowest Channel / QPSK



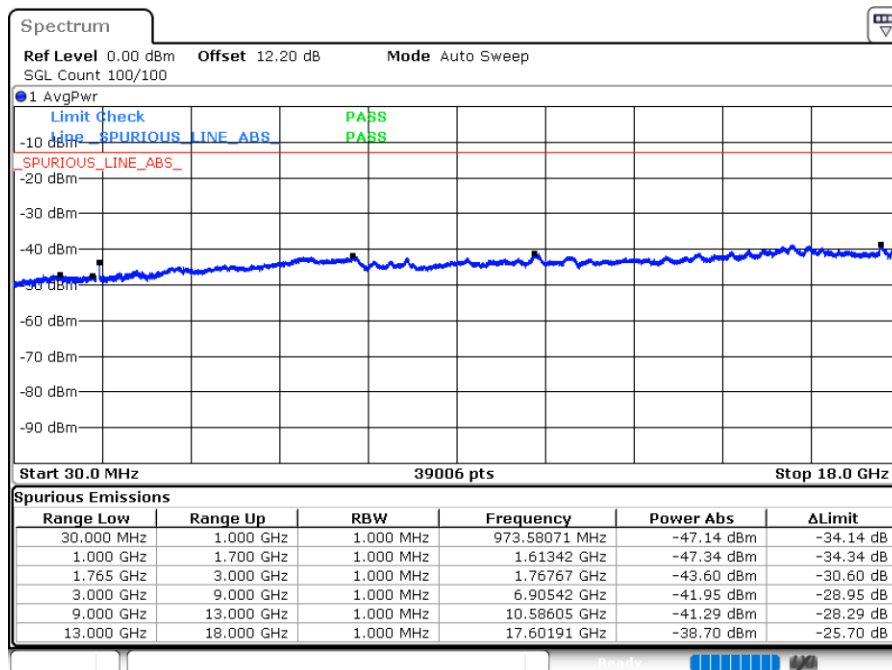
Date: 16.JAN.2021 18:07:53

Middle Channel / QPSK



Date: 16.JAN.2021 18:09:20

Highest Channel / QPSK

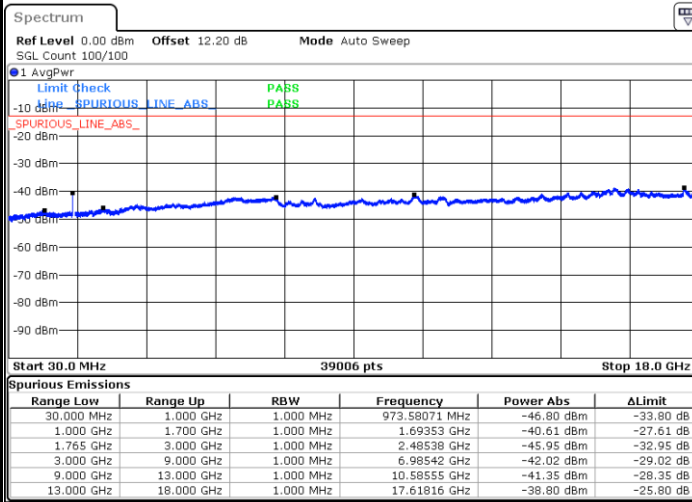


Date: 16.JAN.2021 18:11:09



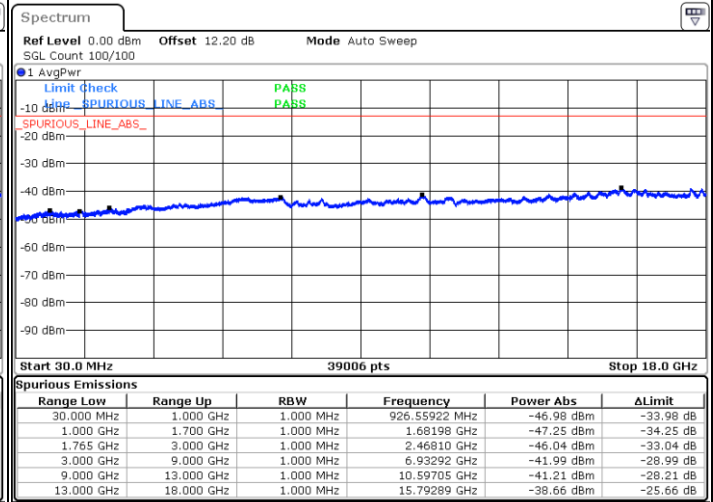
LTE Band 4 / 20MHz

Lowest Channel / QPSK



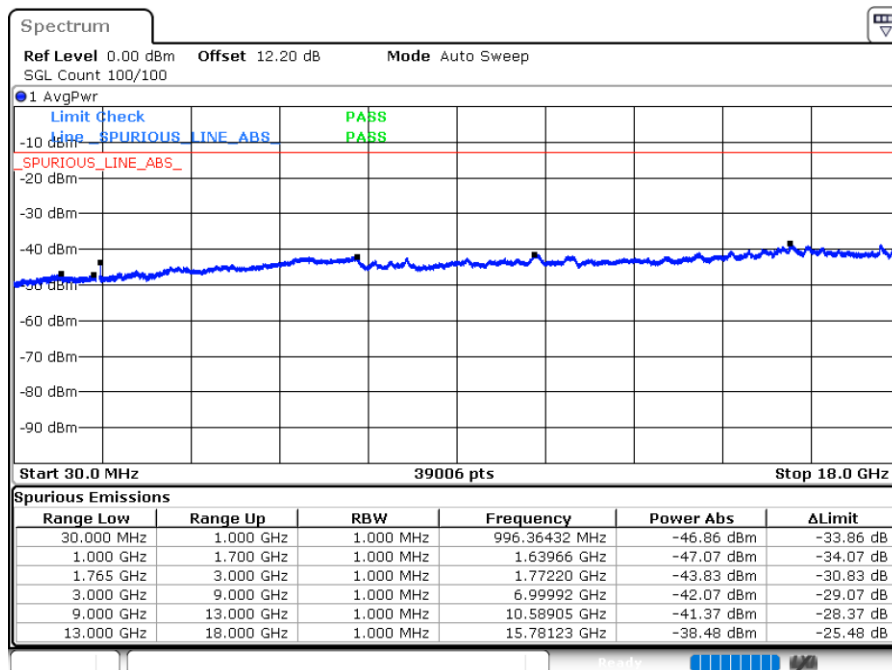
Date: 16.JAN.2021 18:14:28

Middle Channel / QPSK



Date: 16.JAN.2021 18:15:55

Highest Channel / QPSK



Date: 16.JAN.2021 18:17:44

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	0.0098	PASS
40	Normal Voltage	0.0104	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0075	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0099	
-20	Normal Voltage	0.0093	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0070	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0064	

Note:

1. Normal Voltage =48 V. ; Battery End Point (BEP) =43 V. ; Maximum Voltage =53 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.80	6.52	PASS



LTE Band 5 / 10MHz / QPSK

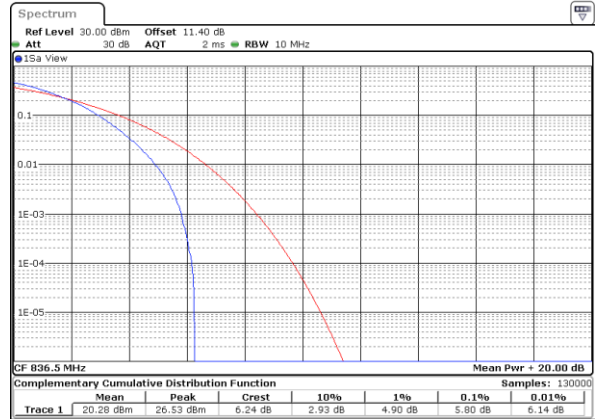
Middle Channel / Full RB



Date: 16.JAN.2021 19:54:50

LTE Band 5 / 10MHz / 16QAM

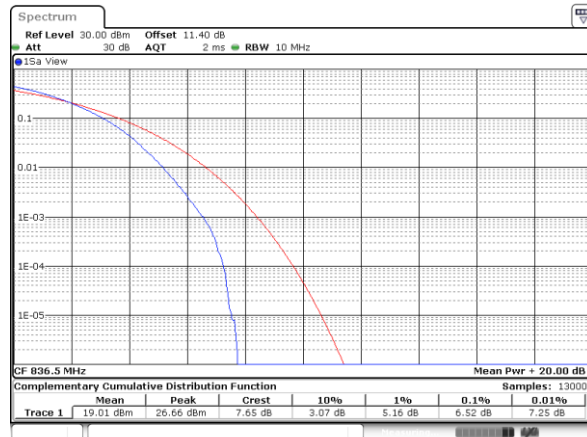
Middle Channel / Full RB



Date: 16.JAN.2021 19:54:37

LTE Band 5 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 16.JAN.2021 19:55:04



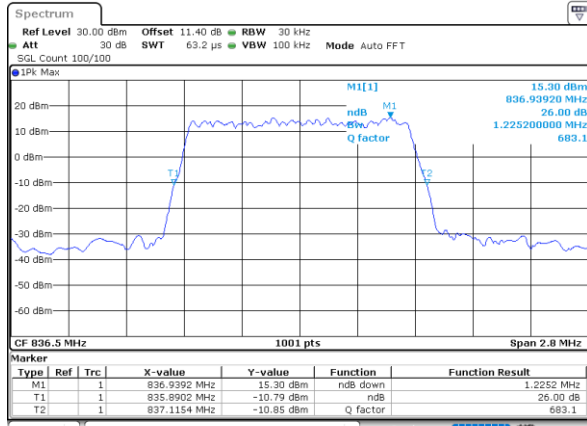
26dB Bandwidth

Mode	LTE Band 5 : 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	1.23	1.22	3.02	3.04	4.91	4.89	9.83	9.89	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Middle CH	1.23	-	3.03	-	4.89	-	9.69	-	-	-	-	-



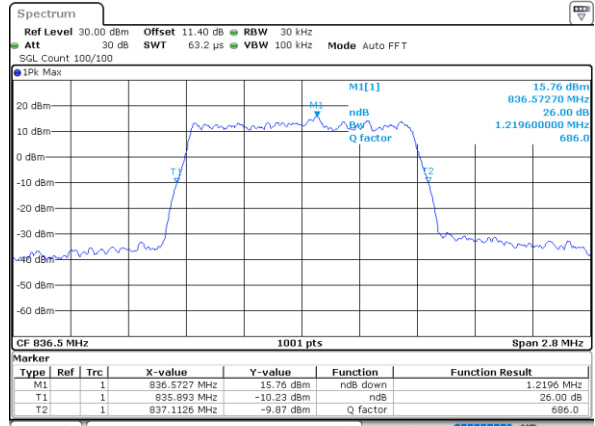
LTE Band 5

Middle Channel / 1.4MHz / QPSK



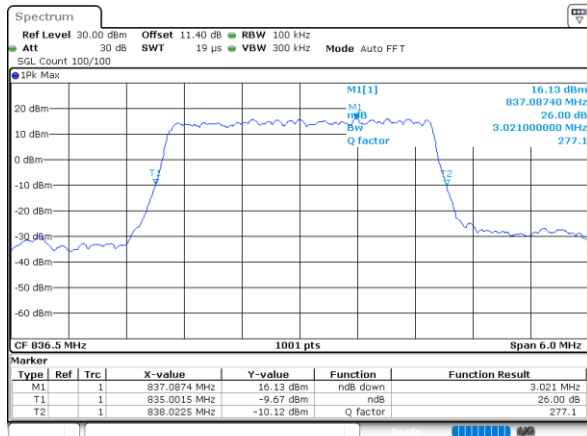
Date: 16.JAN.2021 18:29:29

Middle Channel / 1.4MHz / 16QAM



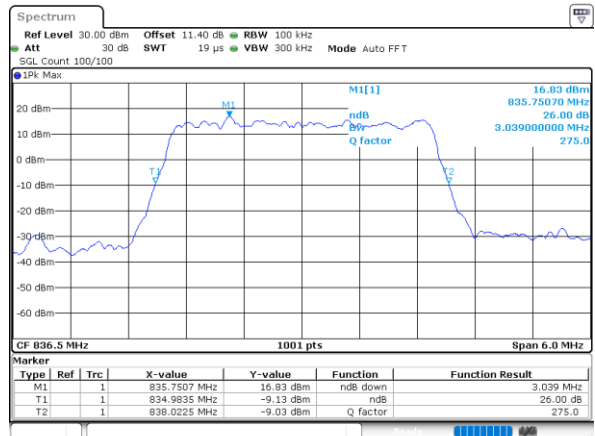
Date: 16.JAN.2021 18:29:41

Middle Channel / 3MHz / QPSK



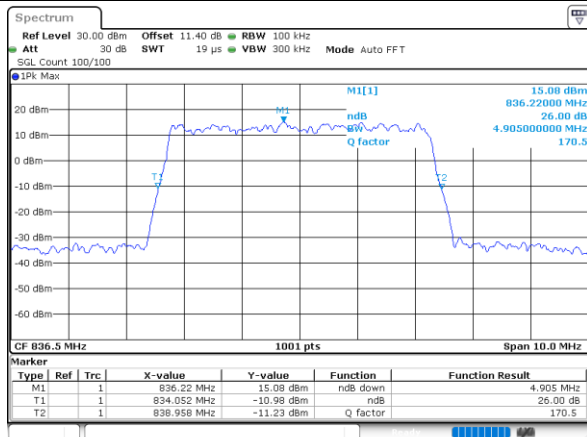
Date: 16.JAN.2021 18:52:22

Middle Channel / 3MHz / 16QAM



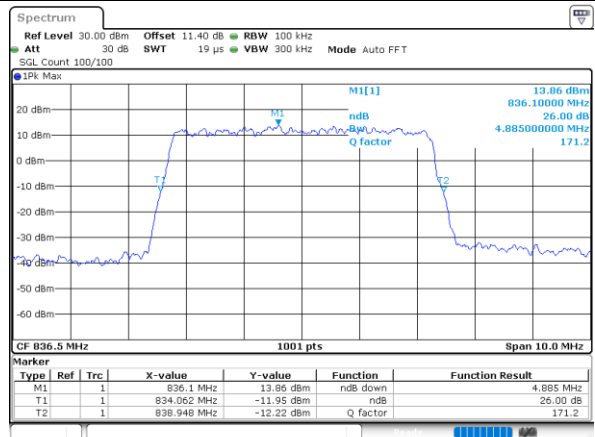
Date: 16.JAN.2021 18:52:34

Middle Channel / 5MHz / QPSK



Date: 16.JAN.2021 19:15:15

Middle Channel / 5MHz / 16QAM

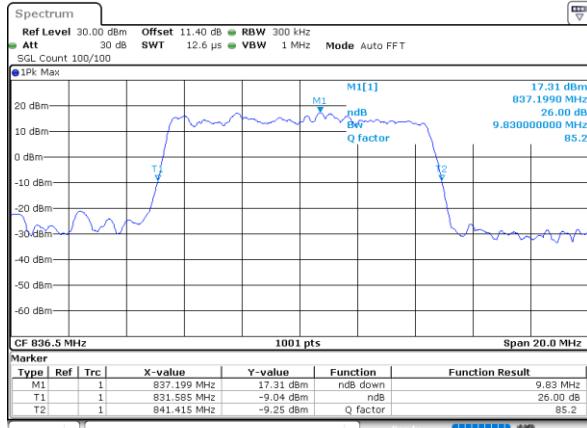


Date: 16.JAN.2021 19:15:26



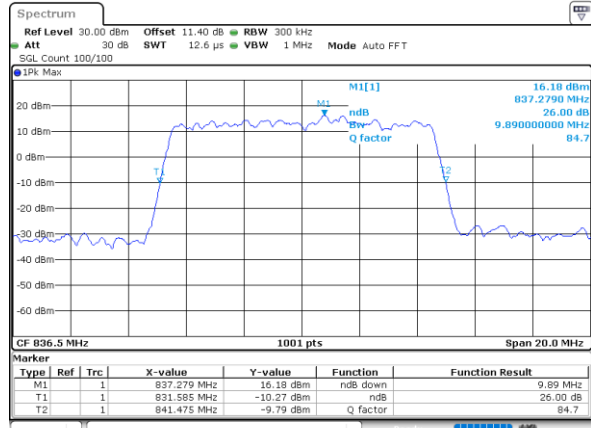
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 16, JAN, 2021 19:38:08

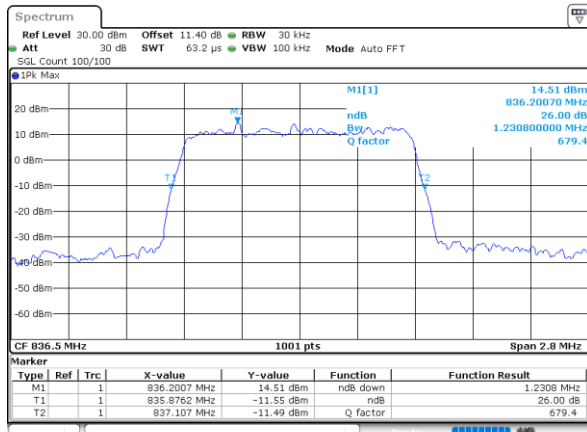
Middle Channel / 10MHz / 16QAM



Date: 16, JAN, 2021 19:38:20

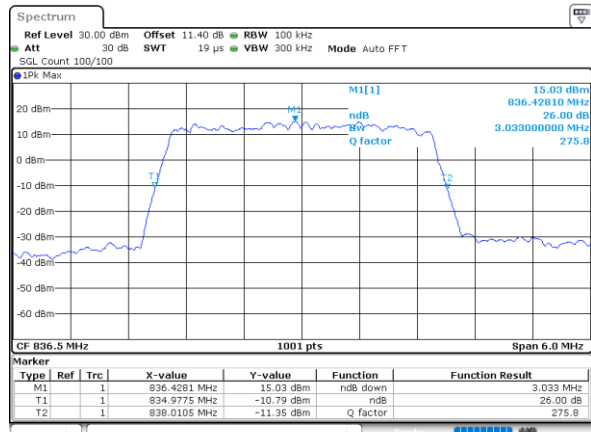
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



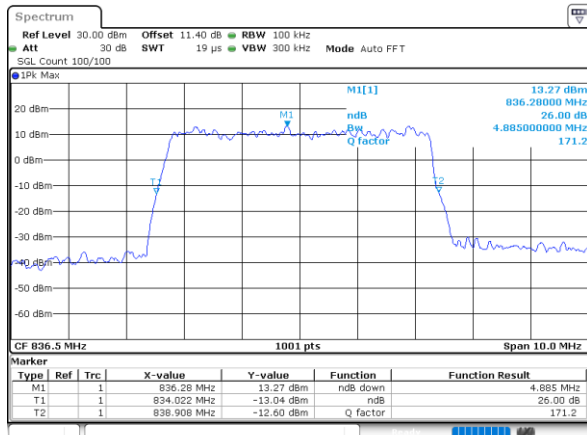
Date: 16, JAN, 2021 18:41:09

Middle Channel / 3MHz / 64QAM



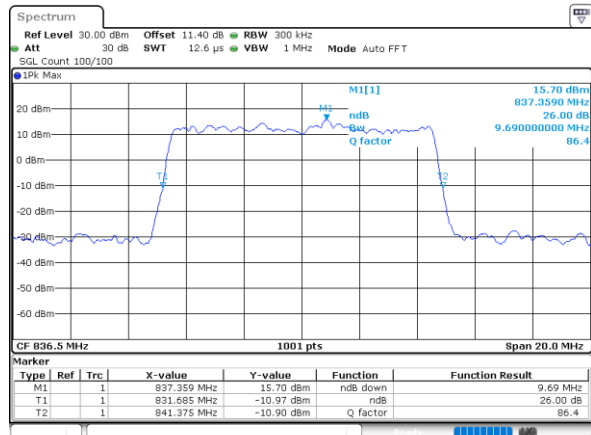
Date: 16, JAN, 2021 19:04:01

Middle Channel / 5MHz / 64QAM



Date: 16, JAN, 2021 19:26:54

Middle Channel / 10MHz / 64QAM



Date: 16, JAN, 2021 19:49:47



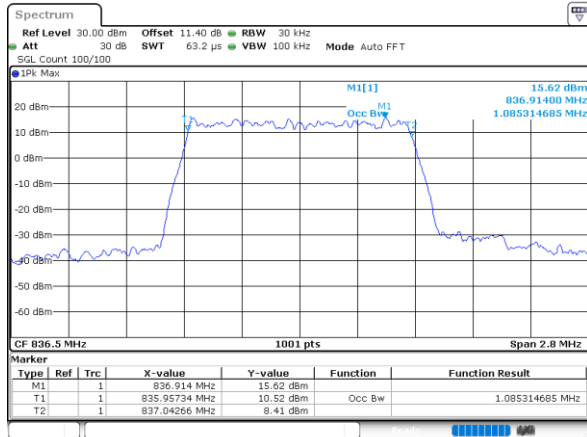
Occupied Bandwidth

Mode	LTE Band 5 : 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	2.73	4.48	4.49	9.07	9.03	-	-	-	-
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Middle CH	1.09	-	2.72	-	4.49	-	8.99	-	-	-	-	-

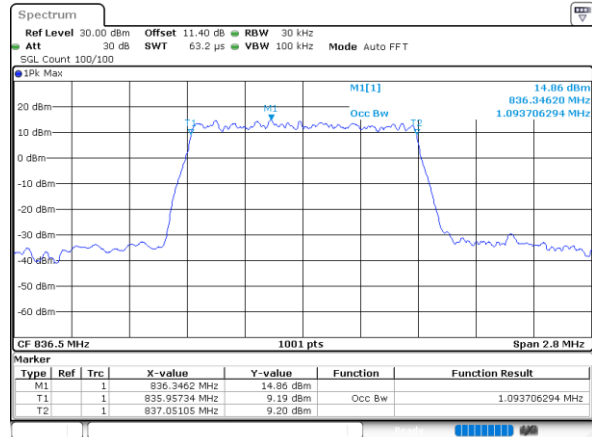


LTE Band 5

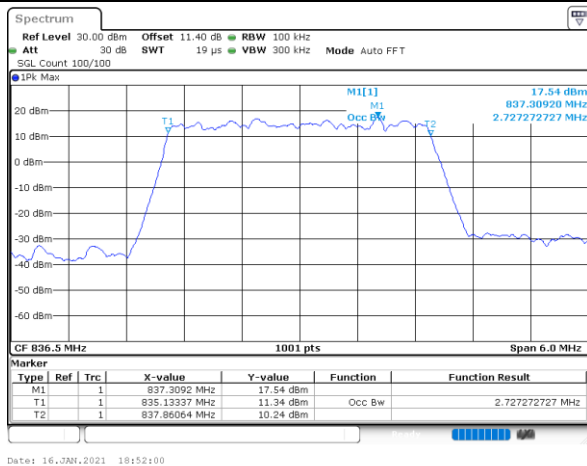
Middle Channel / 1.4MHz / QPSK



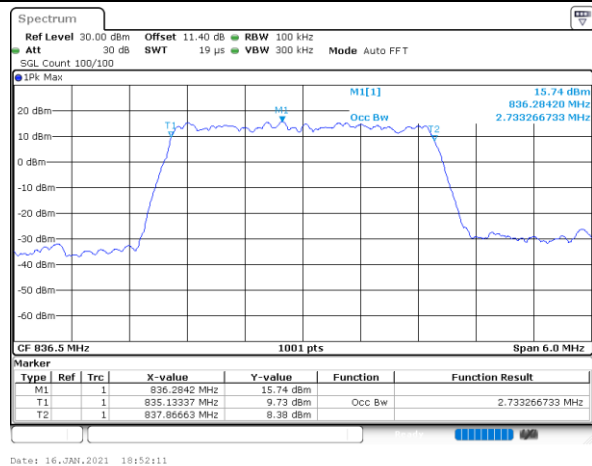
Middle Channel / 1.4MHz / 16QAM



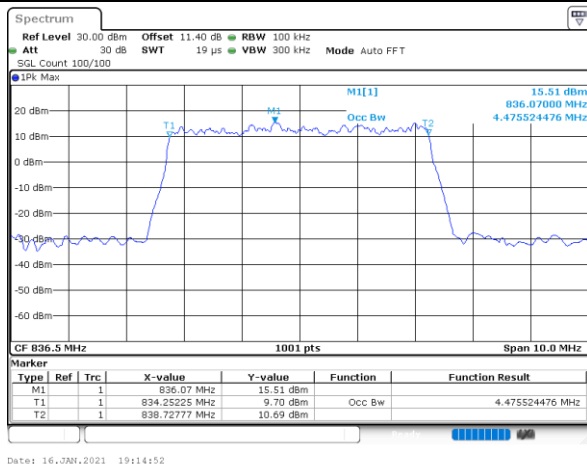
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM

