

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

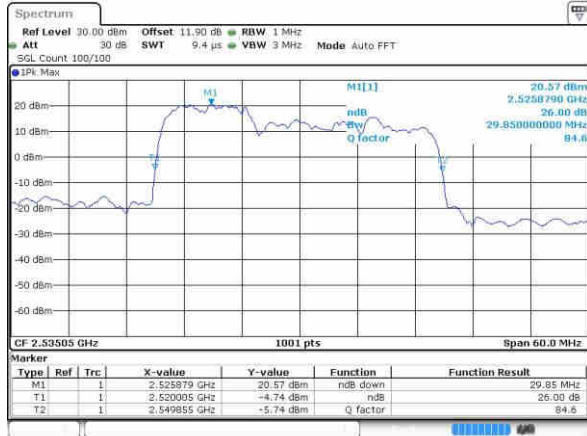
LTE Band 7_CA

26dB Bandwidth

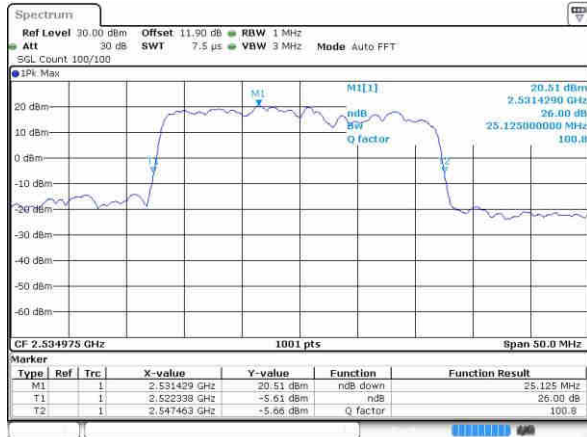
Mode	LTE Band 7 : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.91	25.38	30.51	34.83
Middle CH	29.85	25.12	30.75	34.83
Highest CH	29.97	25.23	30.45	34.90
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	-
Lowest CH	30.03	34.83	39.88	-
Middle CH	30.03	34.97	39.80	-
Highest CH	30.03	34.76	39.80	-

Mode	LTE Band 7 : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.73	25.43	30.51	34.76
Middle CH	29.79	25.18	30.51	34.83
Highest CH	29.67	25.27	30.51	34.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	-
Lowest CH	29.97	34.76	39.88	-
Middle CH	30.09	34.83	39.64	-
Highest CH	29.97	34.97	39.72	-

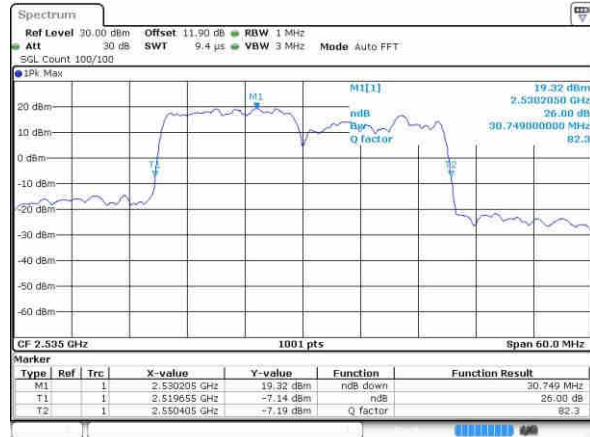
Mode	LTE Band 7 : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.79	25.38	30.51	34.83
Middle CH	29.85	25.23	30.51	34.76
Highest CH	29.79	25.23	30.45	34.76
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	-
Lowest CH	29.97	34.97	39.88	-
Middle CH	29.97	34.90	40.12	-
Highest CH	29.97	34.97	39.64	-

LTE Band 7
QPSK
Middle Channel / 10MHz+20MHz


Date: 8 JUN 2019 01:58:03

LTE Band 7
QPSK
Middle Channel / 15MHz+10MHz


Date: 8 JUN 2019 05:44:17

Middle Channel / 15MHz+15MHz


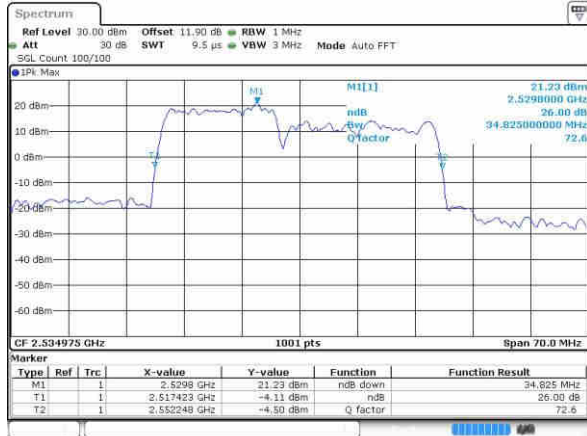
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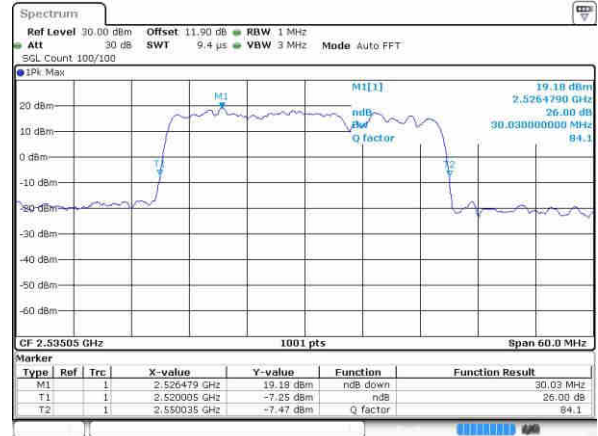
LTE Band 7

QPSK

Middle Channel / 15MHz+20MHz



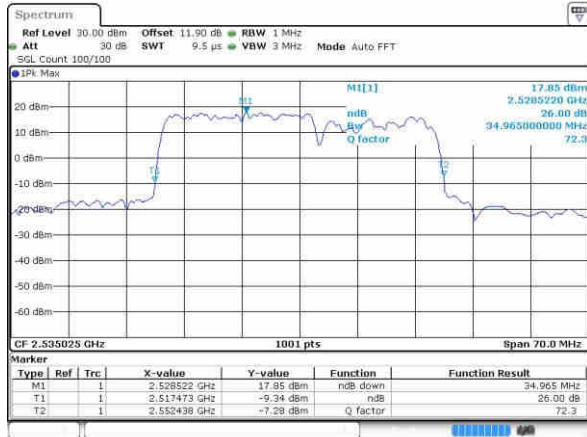
Middle Channel / 20MHz+10MHz



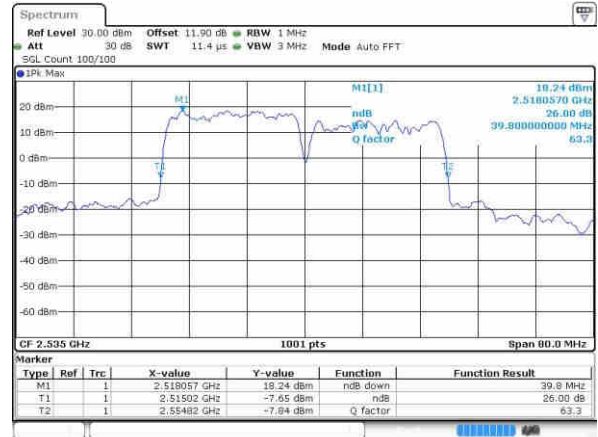
LTE Band 7

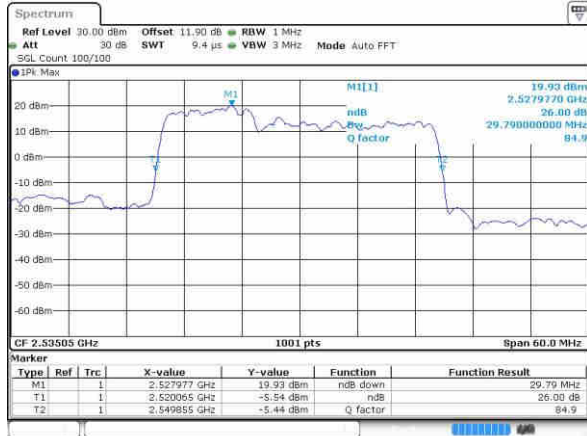
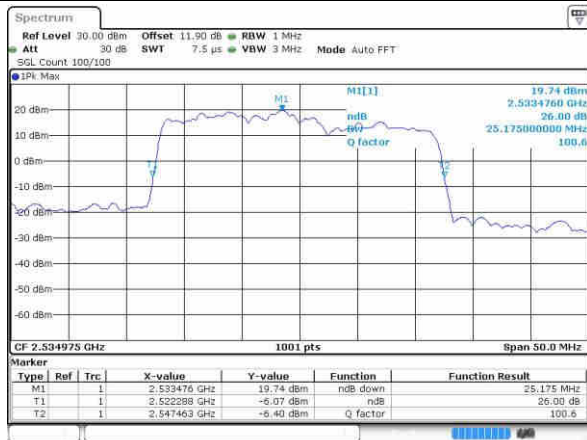
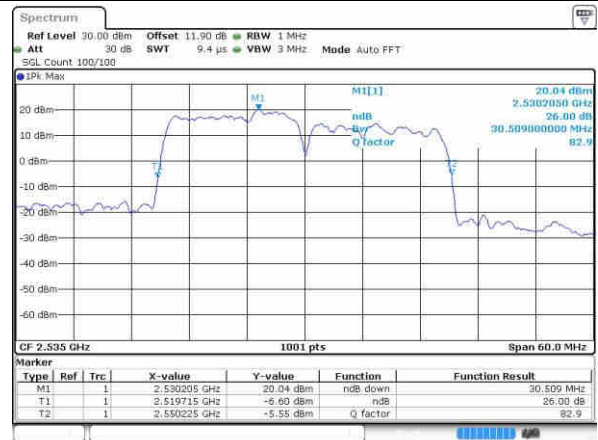
QPSK

Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz



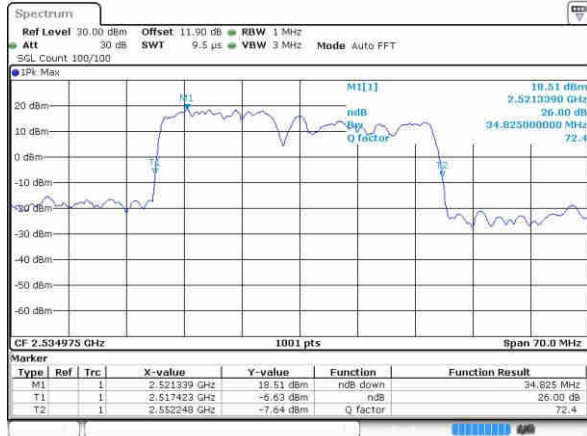
LTE Band 7
16QAM
Middle Channel / 10MHz+20MHz

LTE Band 7
16QAM
Middle Channel / 15MHz+10MHz

Middle Channel / 15MHz+15MHz




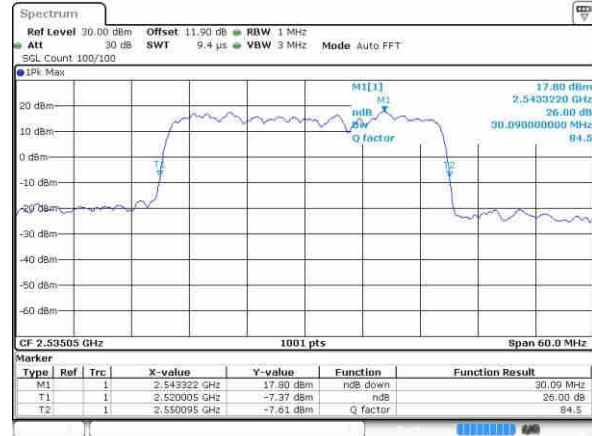
LTE Band 7

16QAM

Middle Channel / 15MHz+20MHz



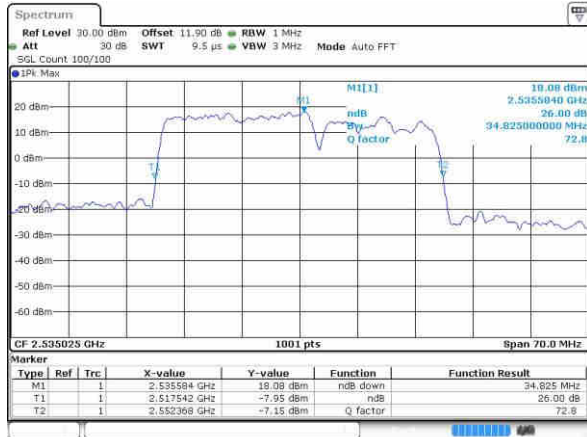
Middle Channel / 20MHz+10MHz



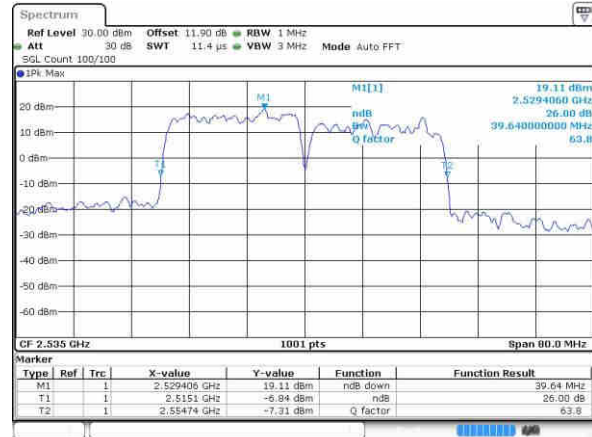
LTE Band 7

16QAM

Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz

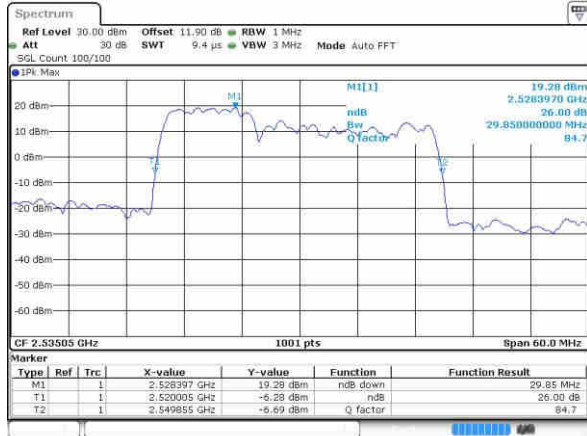




LTE Band 7

64QAM

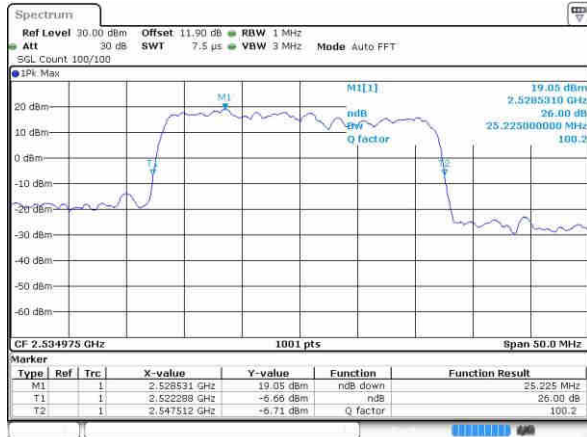
Middle Channel / 10MHz+20MHz



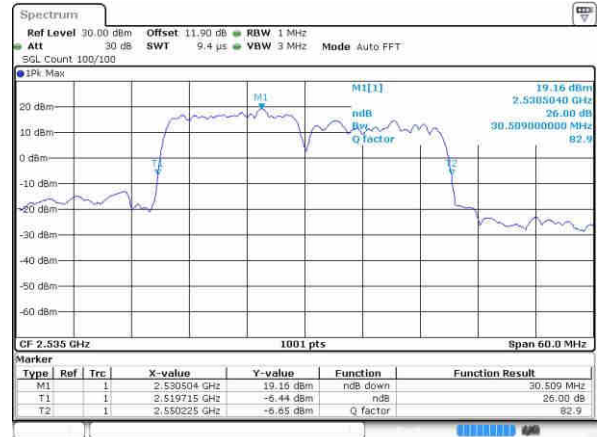
LTE Band 7

64QAM

Middle Channel / 15MHz+10MHz



Middle Channel / 15MHz+15MHz

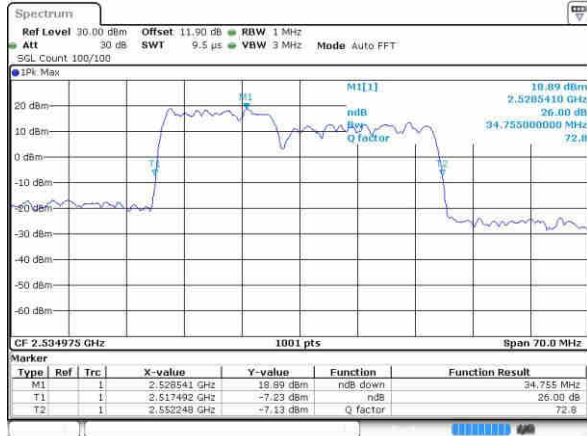




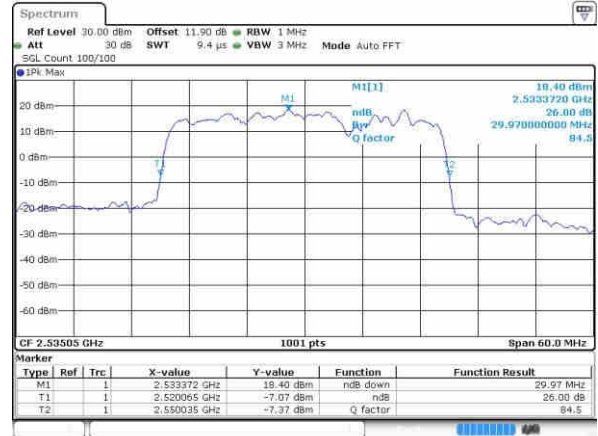
LTE Band 7

64QAM

Middle Channel / 15MHz+20MHz



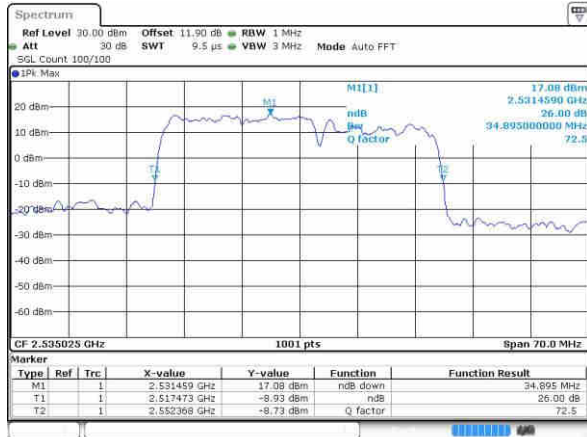
Middle Channel / 20MHz+10MHz



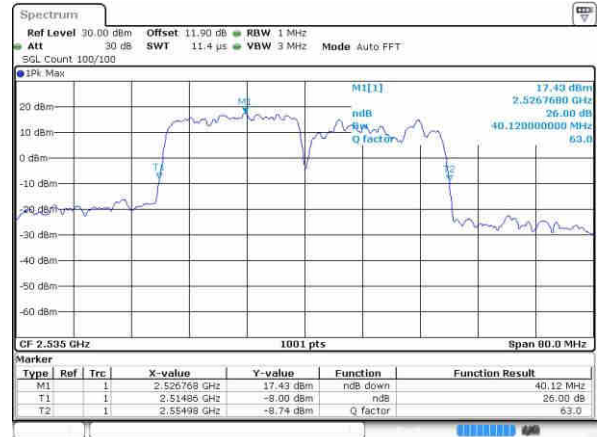
LTE Band 7

64QAM

Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz

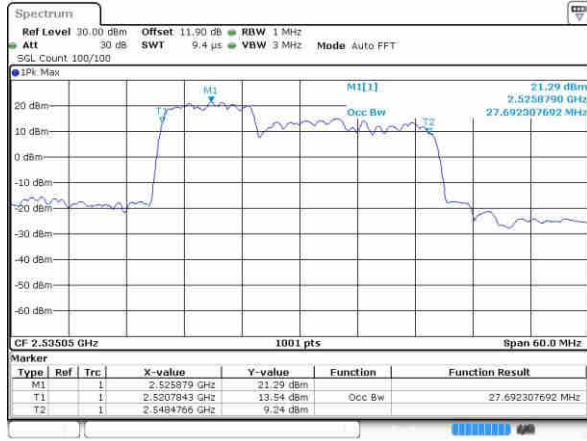


Occupied Bandwidth

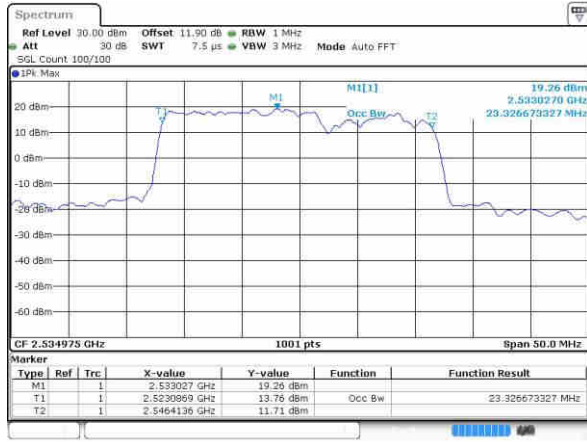
Mode	LTE Band 7 : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	28.05	23.38	28.77	32.87
Middle CH	27.69	23.33	28.53	32.59
Highest CH	27.81	23.38	28.41	32.73
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	-
Lowest CH	28.05	32.52	37.48	-
Middle CH	27.93	32.66	37.64	-
Highest CH	27.75	32.66	37.56	-

Mode	LTE Band 7 : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	28.17	23.33	28.53	32.66
Middle CH	27.81	23.48	28.65	32.38
Highest CH	27.93	23.43	28.59	32.66
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	-
Lowest CH	27.93	32.80	37.24	-
Middle CH	27.93	32.52	37.96	-
Highest CH	27.87	32.87	37.72	-

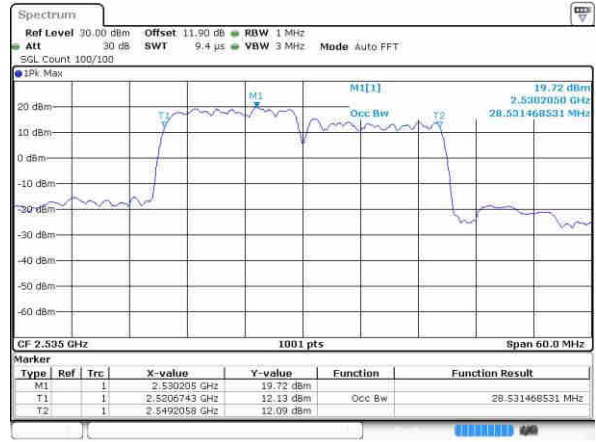
Mode	LTE Band 7 : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	27.87	23.28	28.35	32.87
Middle CH	27.99	23.13	28.59	32.73
Highest CH	27.81	23.13	28.65	32.66
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	-
Lowest CH	27.69	32.66	37.24	-
Middle CH	27.69	32.80	37.56	-
Highest CH	27.87	32.80	37.40	-

LTE Band 7
QPSK
Middle Channel / 10MHz+20MHz


Date: 8 JUN 2019 01:53:47

LTE Band 7
QPSK
Middle Channel / 15MHz+10MHz


Date: 8 JUN 2019 05:40:17

Middle Channel / 15MHz+15MHz


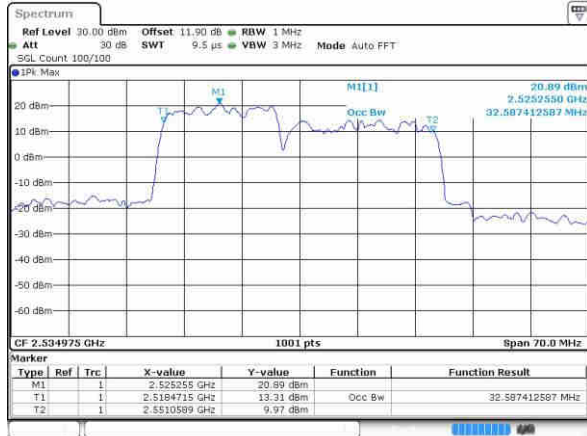
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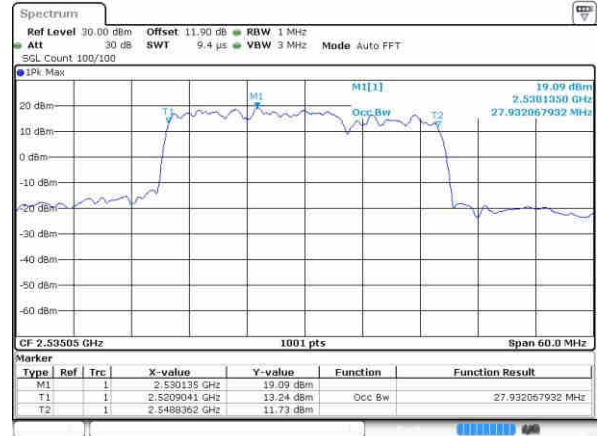
LTE Band 7

QPSK

Middle Channel / 15MHz+20MHz



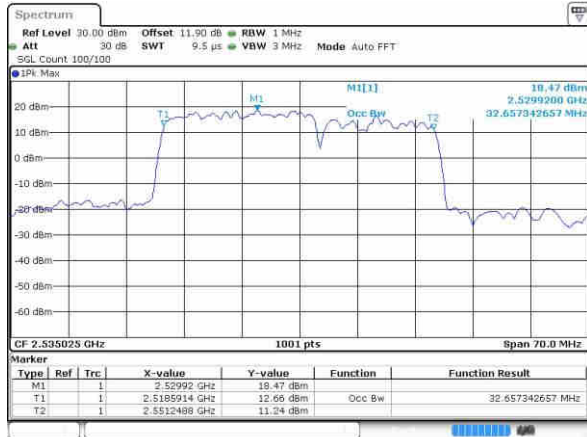
Middle Channel / 20MHz+10MHz



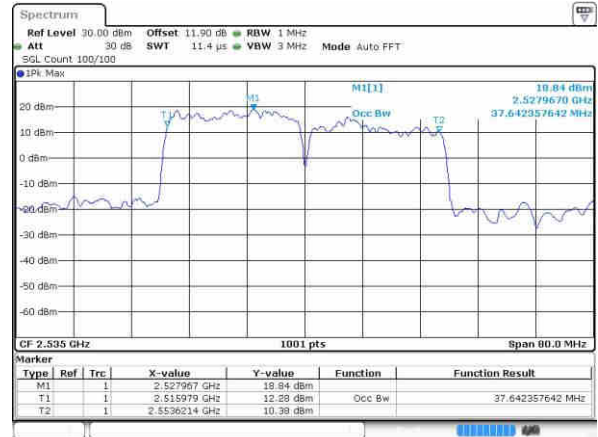
LTE Band 7

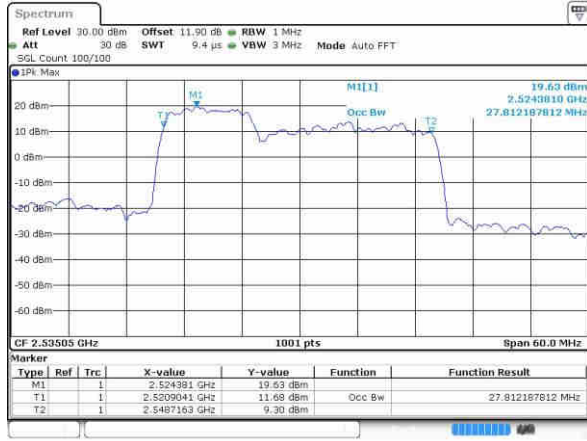
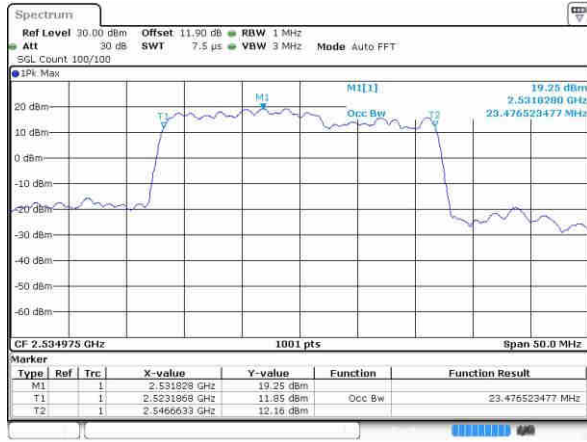
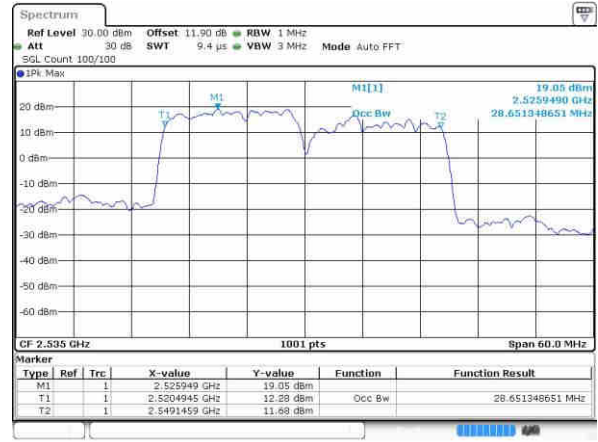
QPSK

Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz



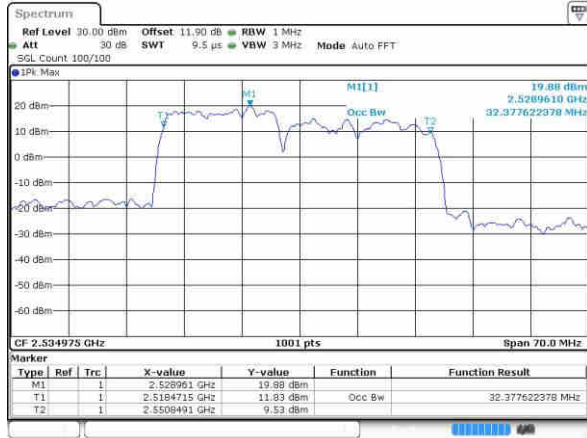
LTE Band 7
16QAM
Middle Channel / 10MHz+20MHz

LTE Band 7
16QAM
Middle Channel / 15MHz+10MHz

Middle Channel / 15MHz+15MHz




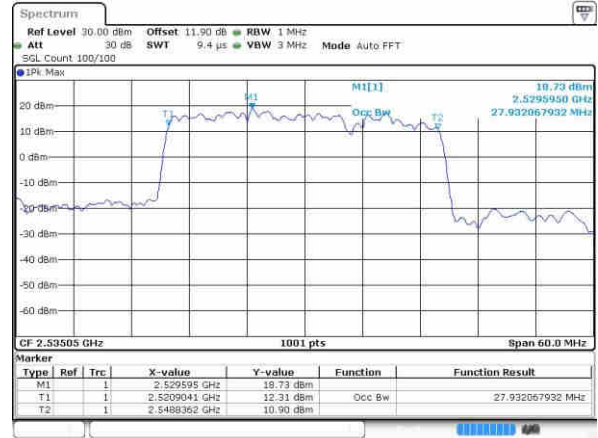
LTE Band 7

16QAM

Middle Channel / 15MHz+20MHz



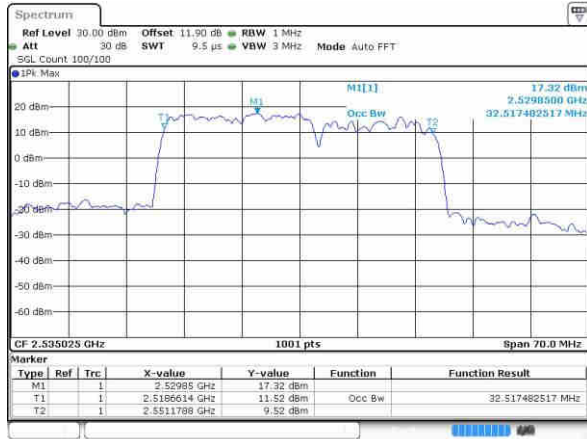
Middle Channel / 20MHz+10MHz



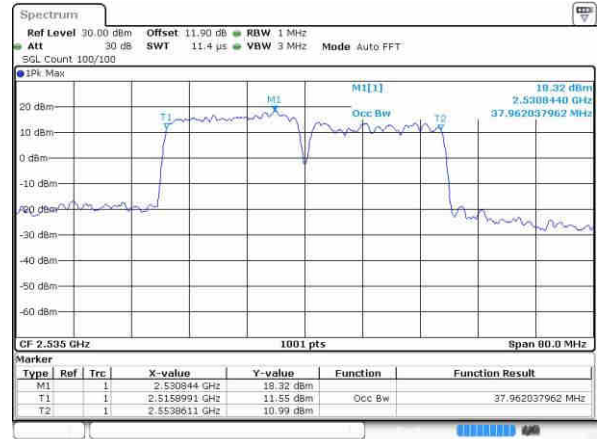
LTE Band 7

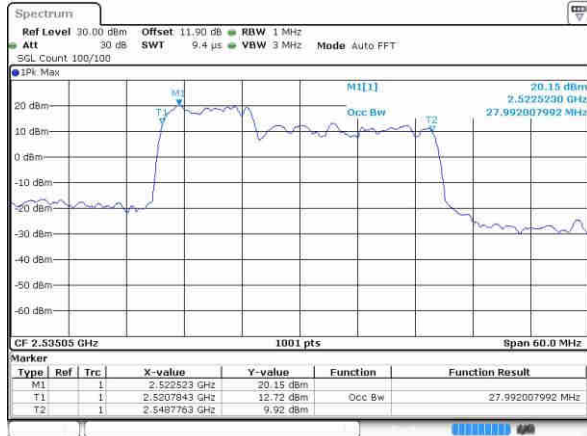
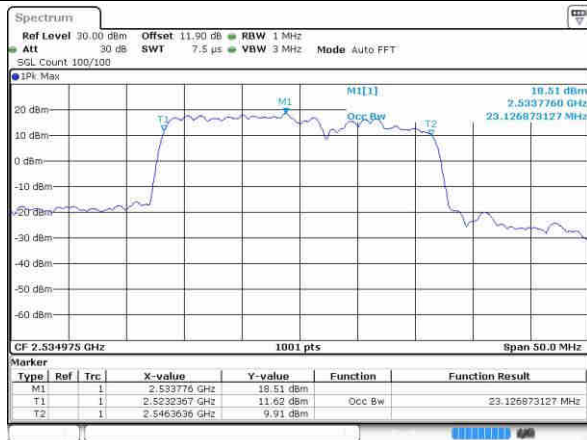
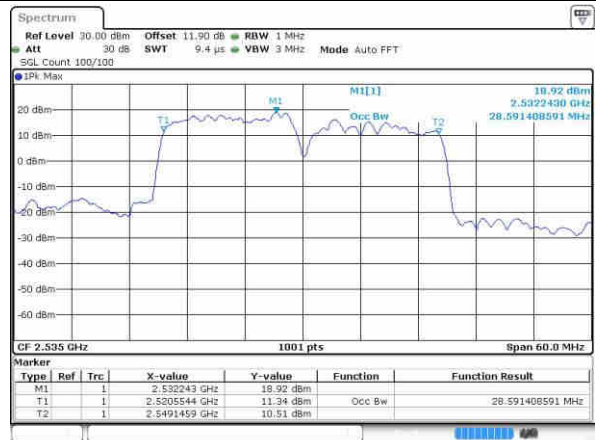
16QAM

Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz



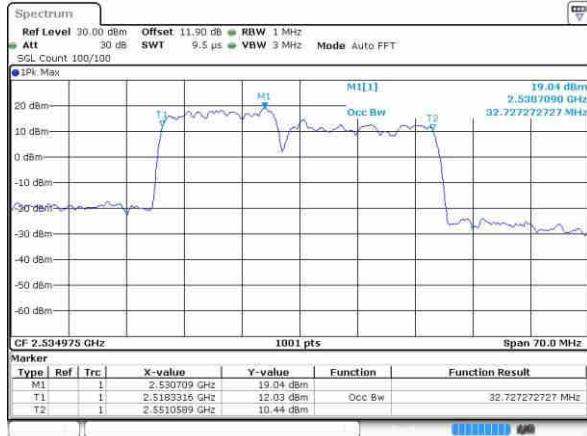
LTE Band 7
64QAM
Middle Channel / 10MHz+20MHz

LTE Band 7
64QAM
Middle Channel / 15MHz+10MHz

Middle Channel / 15MHz+15MHz




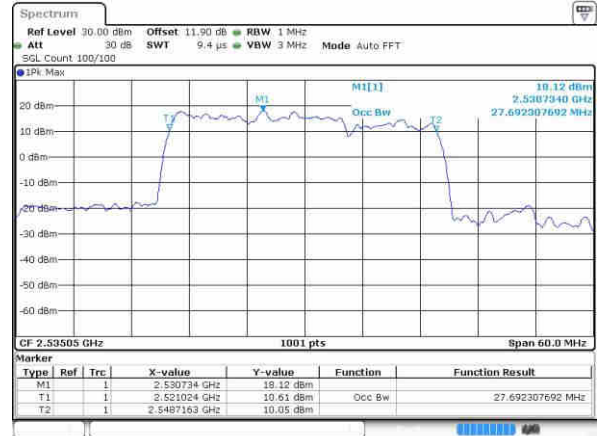
LTE Band 7

64QAM

Middle Channel / 15MHz+20MHz



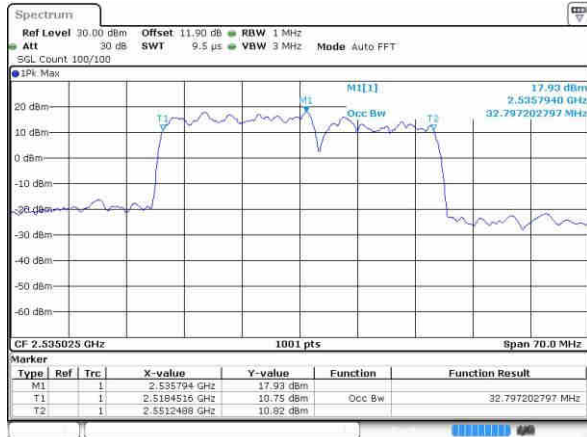
Middle Channel / 20MHz+10MHz



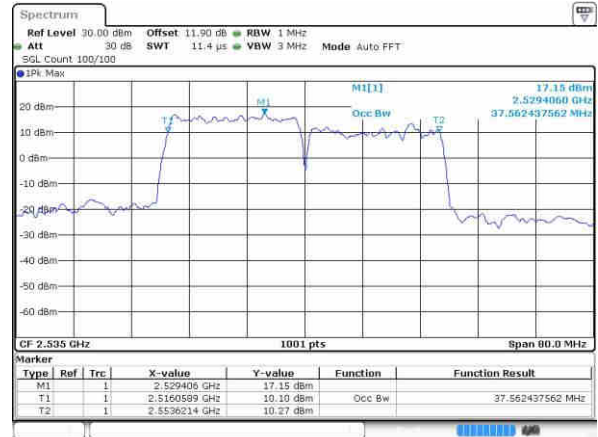
LTE Band 7

64QAM

Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz



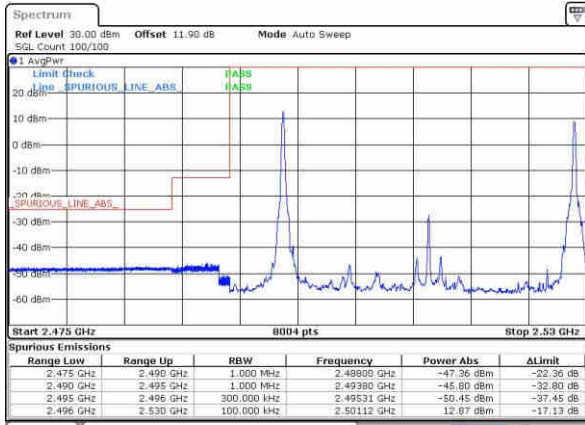


Conducted Band Edge

LTE Band 7 / 10MHz+20MHz

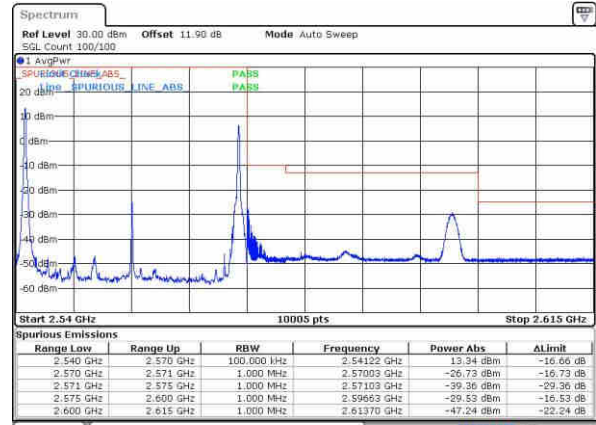
QPSK

Lowest Band Edge / 1RB0 and 1RB99



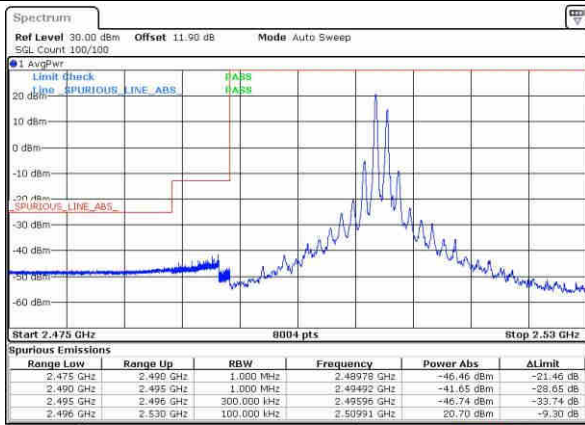
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Highest Band Edge / 1RB0 and 1RB99



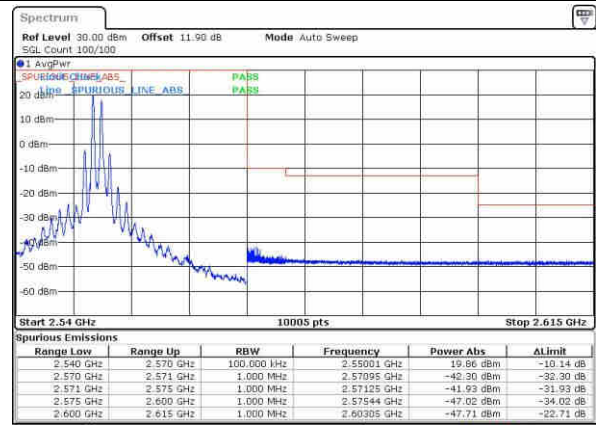
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Lowest Band Edge / 1RB49 and 1RB0



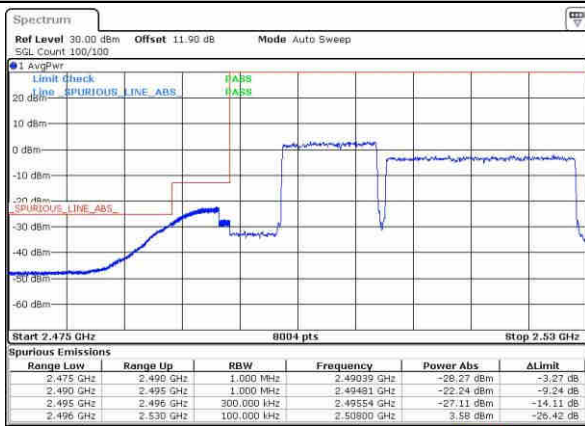
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Highest Band Edge / 1RB49 and 1RB0



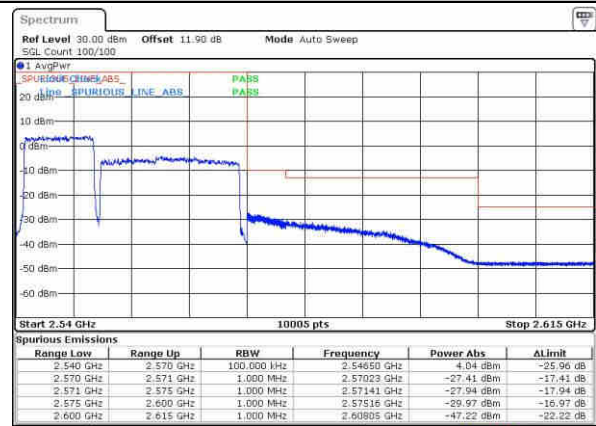
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Lowest Band Edge / Full RB



Date: 8 JUN 2019 01:50:15

Highest Band Edge / Full RB



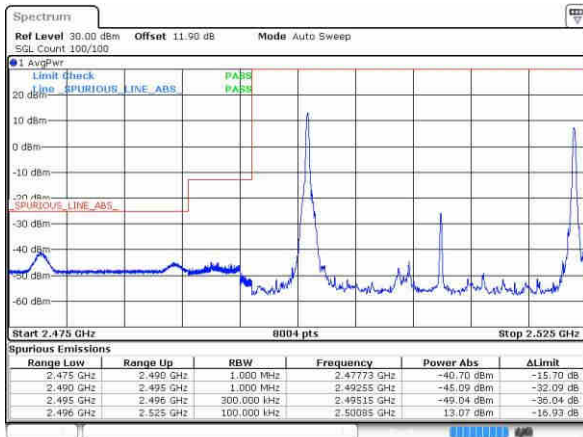
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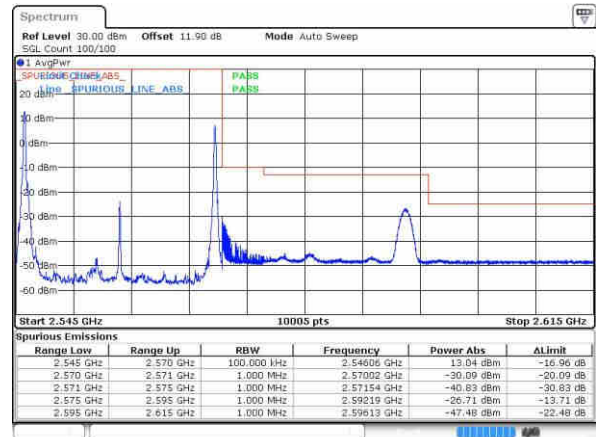
LTE Band 7 / 15MHz+10MHz

QPSK

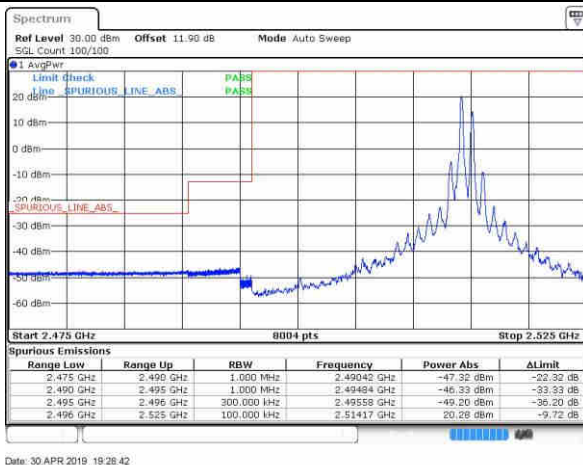
Lowest Band Edge / 1RB0 and 1RB49



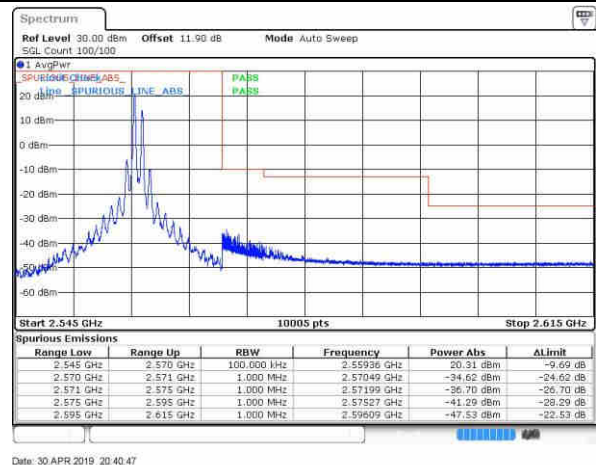
Highest Band Edge / 1RB0 and 1RB49



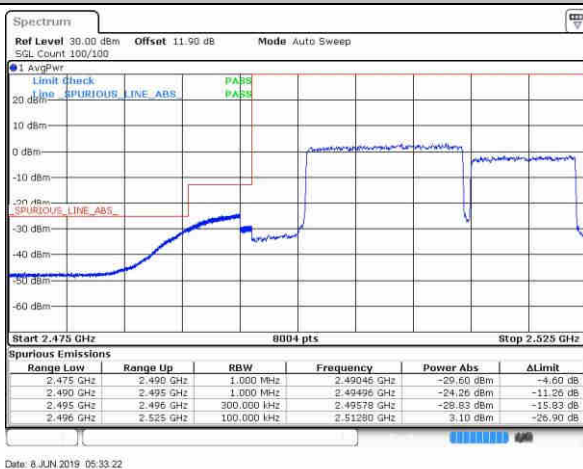
Lowest Band Edge / 1RB74 and 1RB0



Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

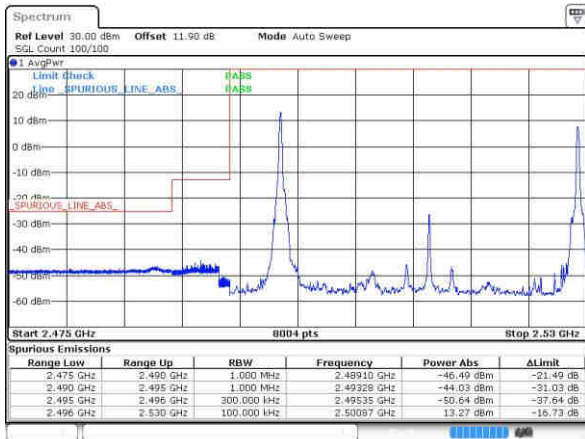




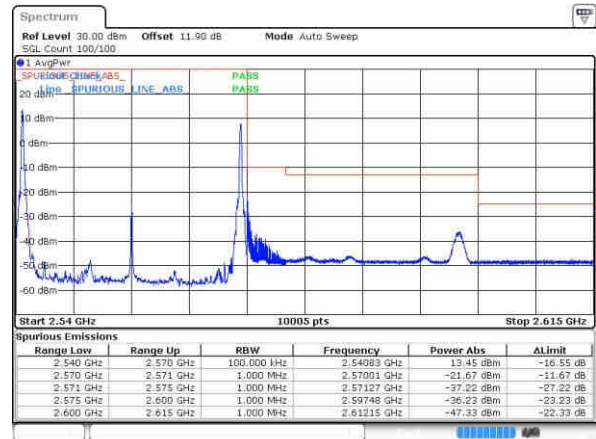
LTE Band 7 / 15MHz+15MHz

QPSK

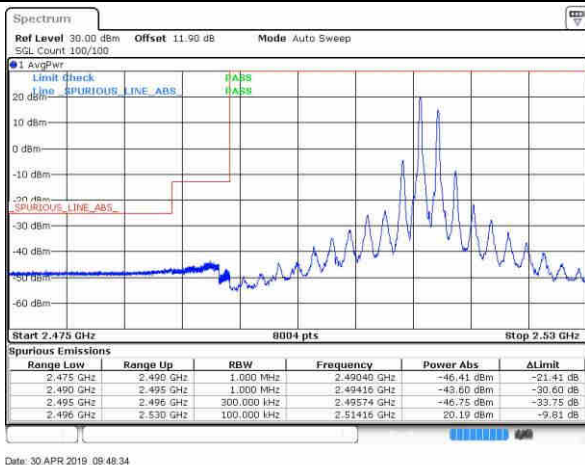
Lowest Band Edge / 1RB0 and 1RB74



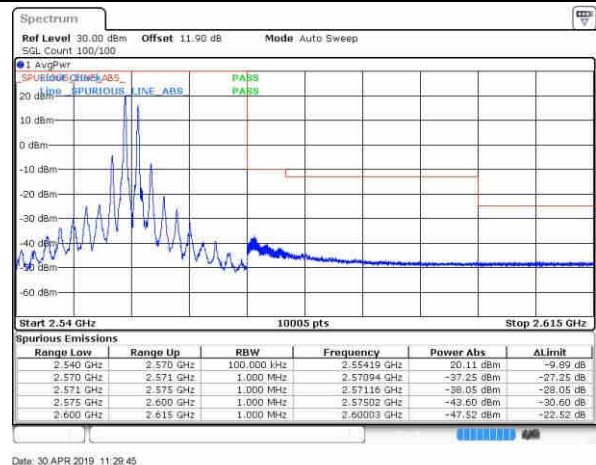
Highest Band Edge / 1RB0 and 1RB74



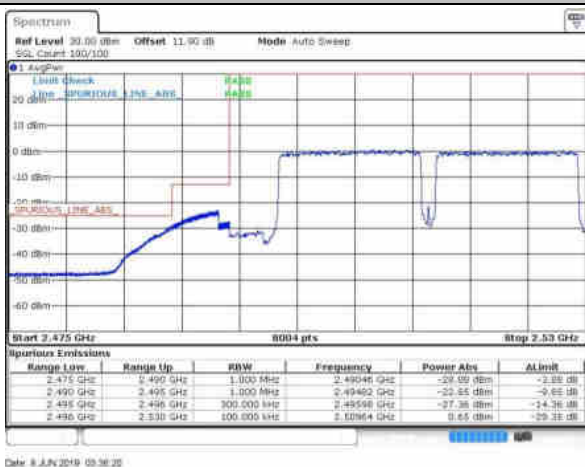
Lowest Band Edge / 1RB74 and 1RB0



Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

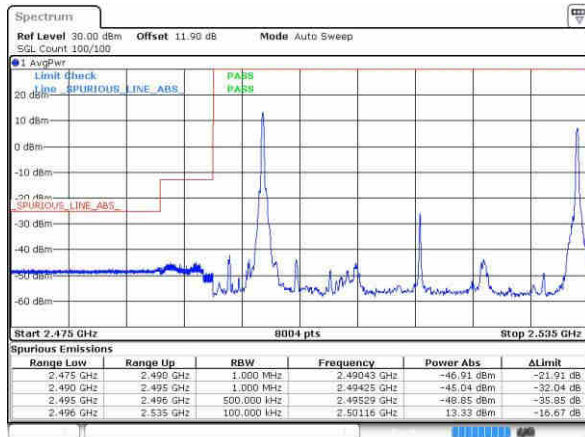




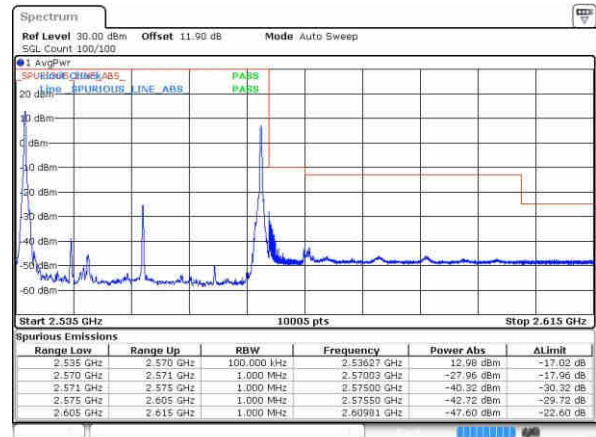
LTE Band 7 / 15MHz+20MHz

QPSK

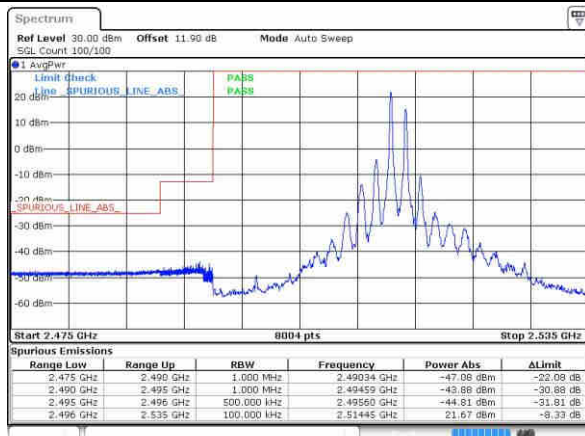
Lowest Band Edge / 1RB0 and 1RB99



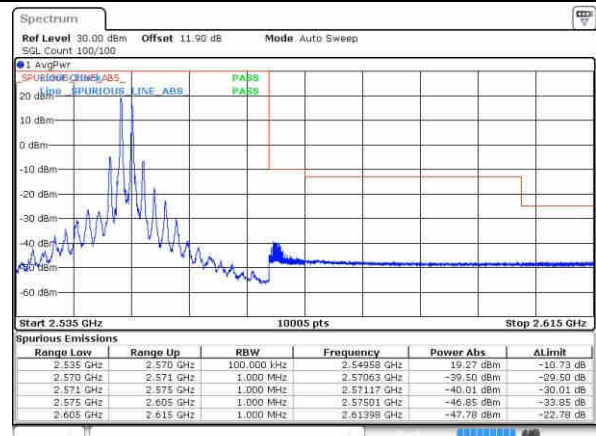
Highest Band Edge / 1RB0 and 1RB99



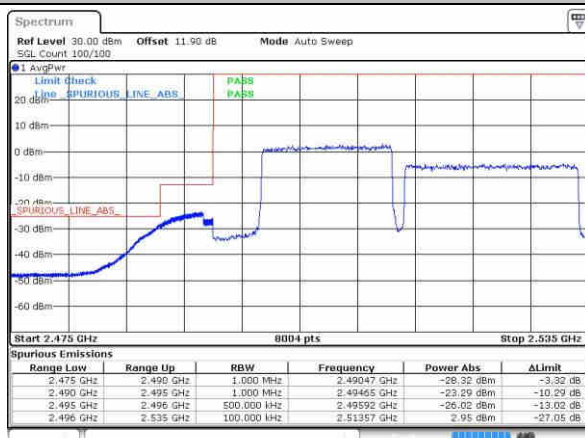
Lowest Band Edge / 1RB74 and 1RB0



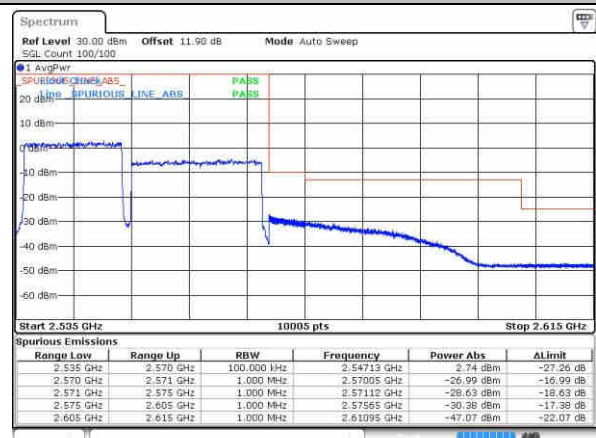
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

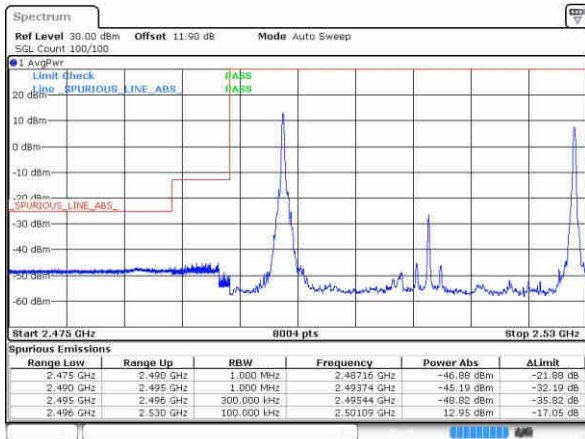




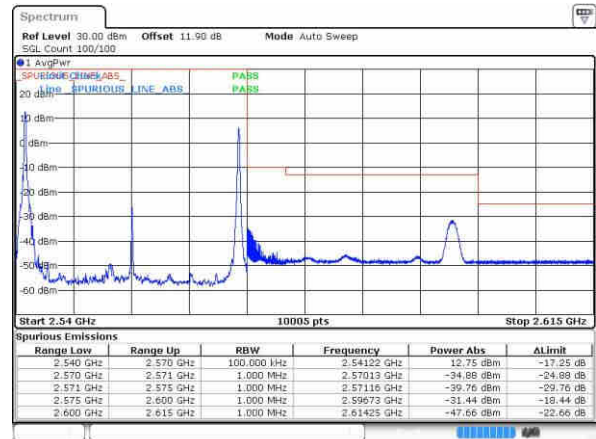
LTE Band 7 / 20MHz+10MHz

QPSK

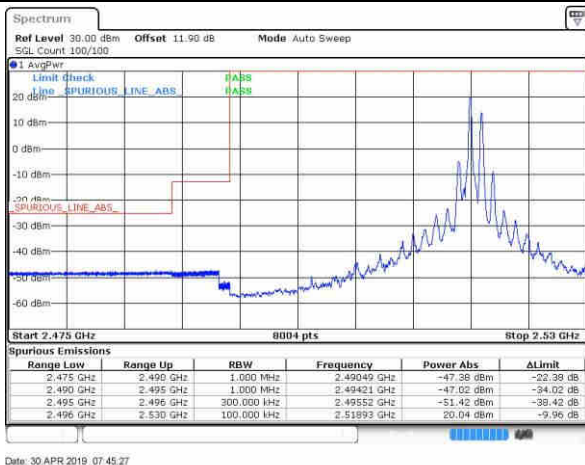
Lowest Band Edge / 1RB0 and 1RB49



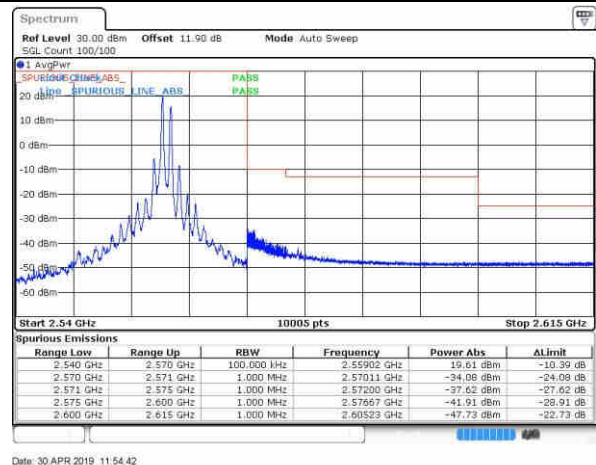
Highest Band Edge / 1RB0 and 1RB49



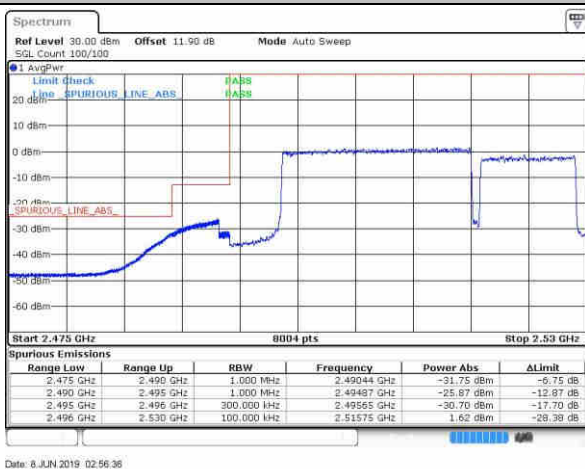
Lowest Band Edge / 1RB99 and 1RB0



Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

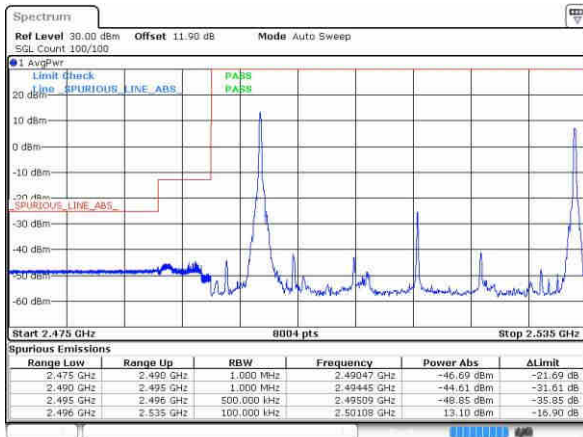




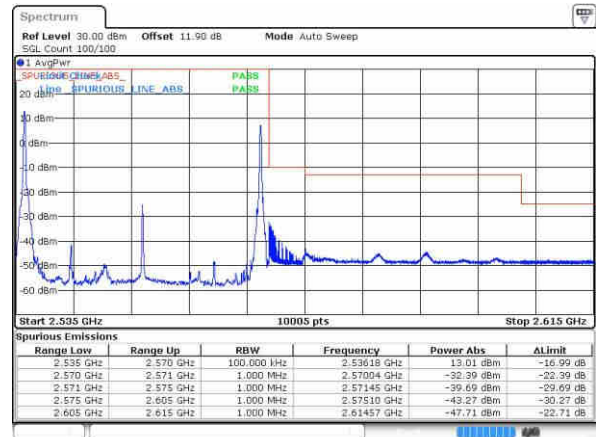
LTE Band 7 / 20MHz+15MHz

QPSK

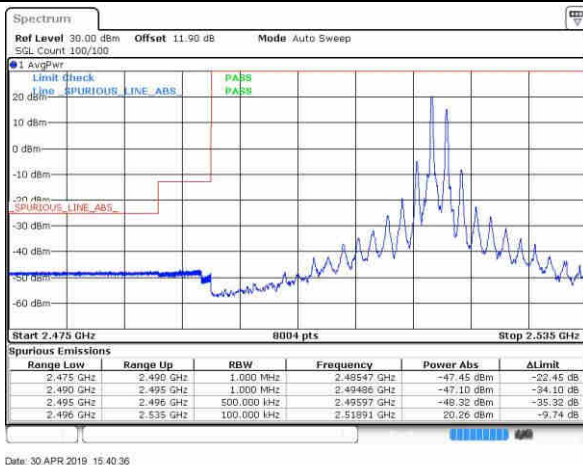
Lowest Band Edge / 1RB0 and 1RB74



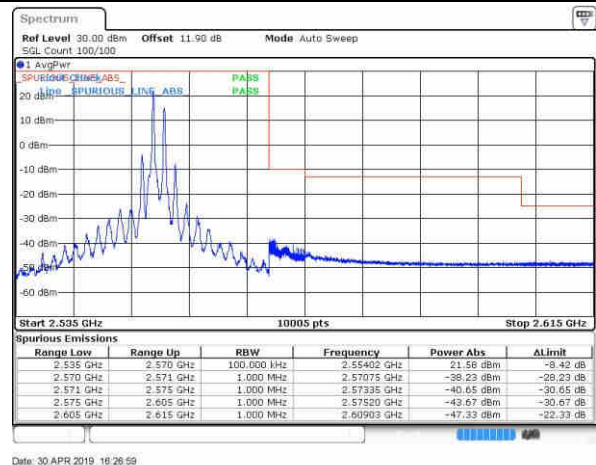
Highest Band Edge / 1RB0 and 1RB74



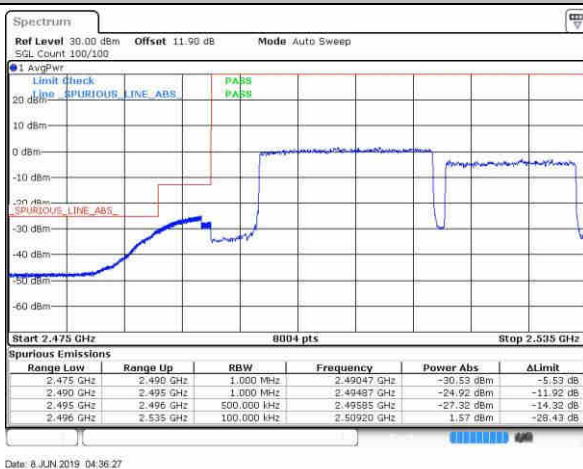
Lowest Band Edge / 1RB99 and 1RB0



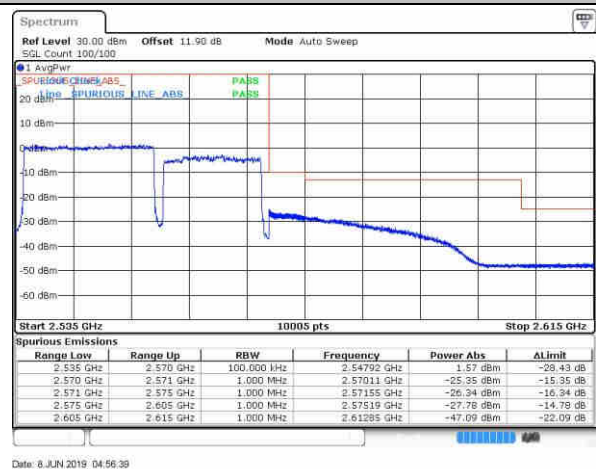
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

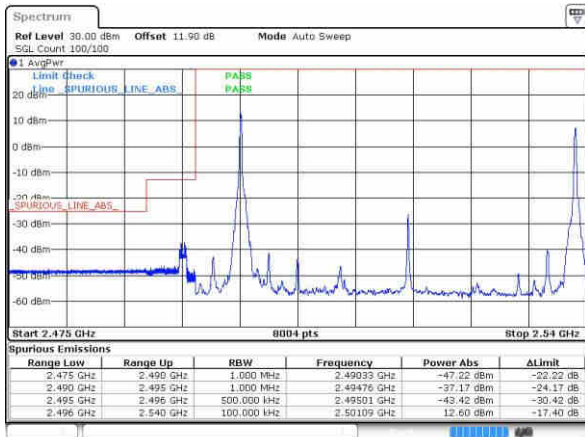




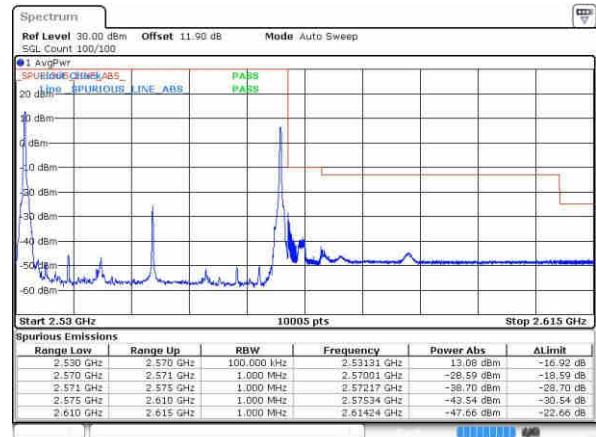
LTE Band 7 / 20MHz+20MHz

QPSK

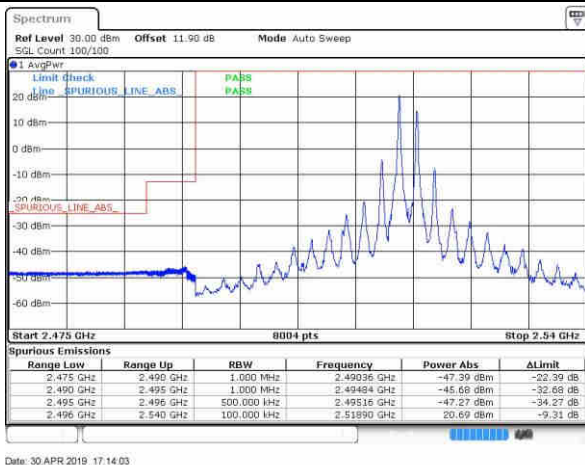
Lowest Band Edge / 1RB0 and 1RB99



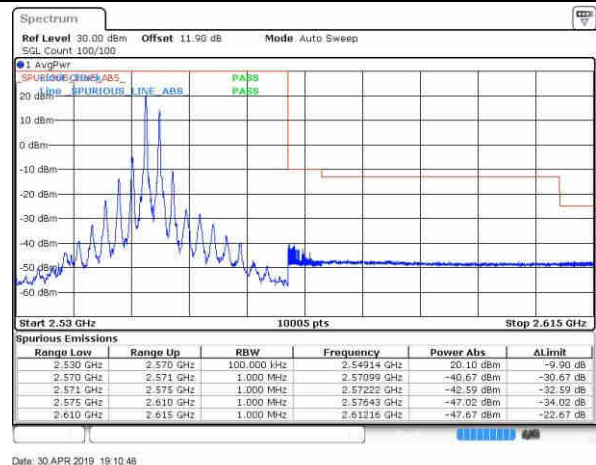
Highest Band Edge / 1RB0 and 1RB99



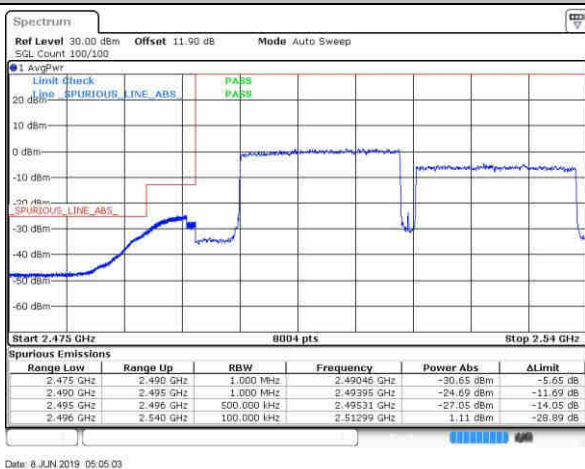
Lowest Band Edge / 1RB99 and 1RB0



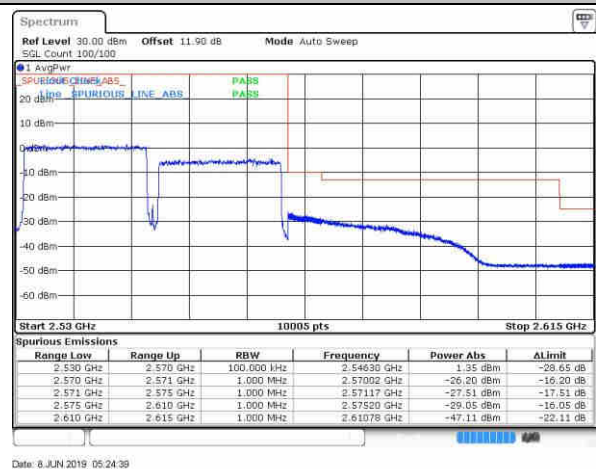
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

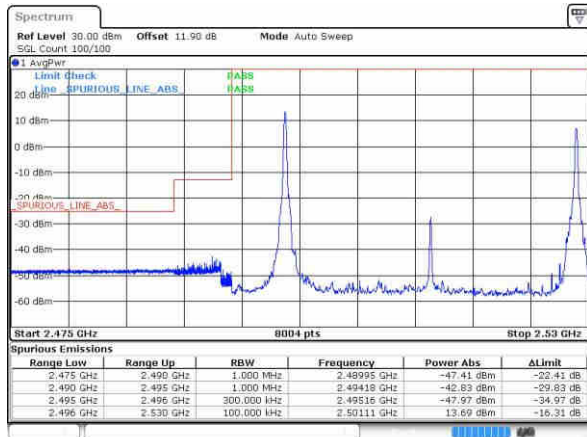




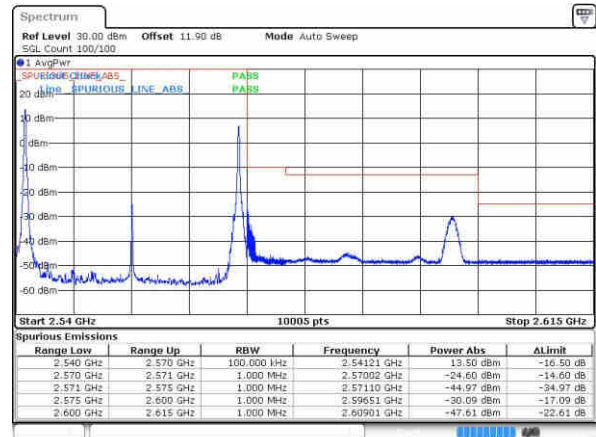
LTE Band 7 / 10MHz+20MHz

16QAM

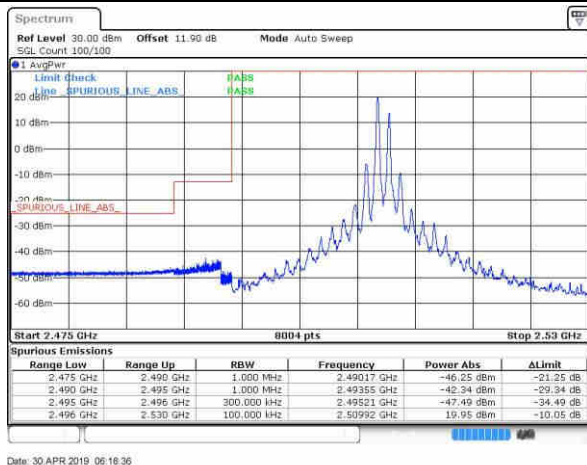
Lowest Band Edge / 1RB0 and 1RB99



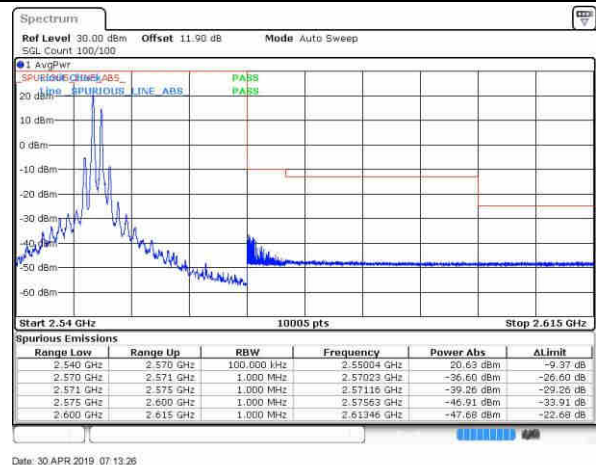
Highest Band Edge / 1RB0 and 1RB99



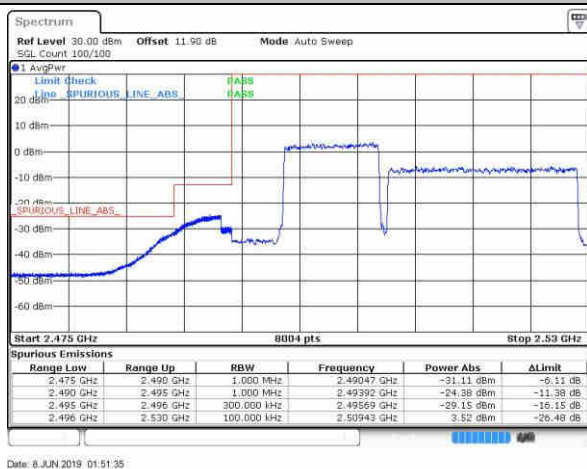
Lowest Band Edge / 1RB49 and 1RB0



Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

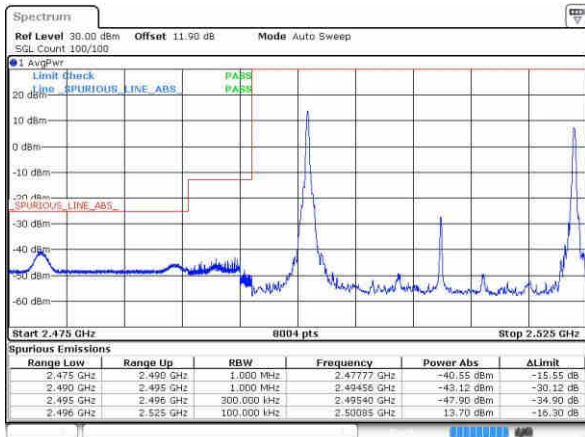




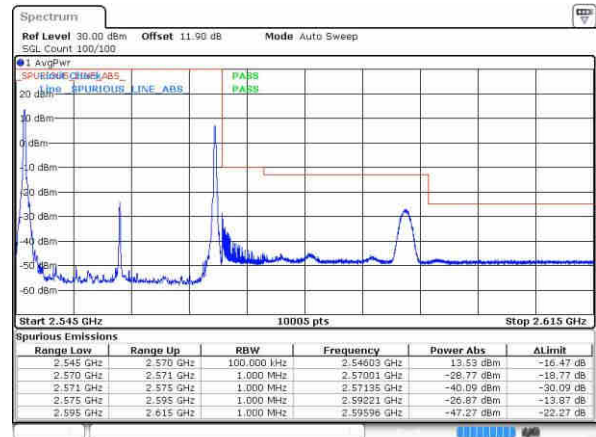
LTE Band 7 / 15MHz+10MHz

16QAM

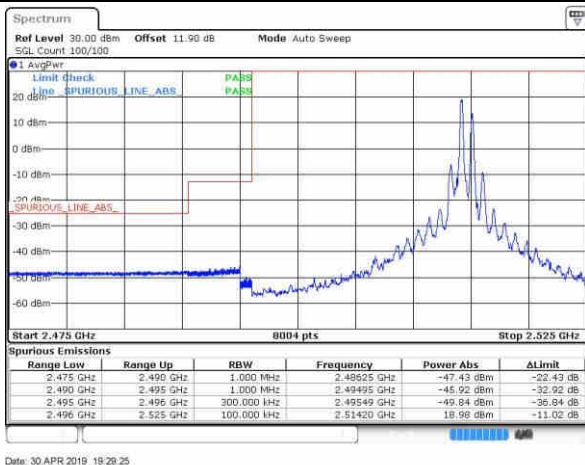
Lowest Band Edge / 1RB0 and 1RB49



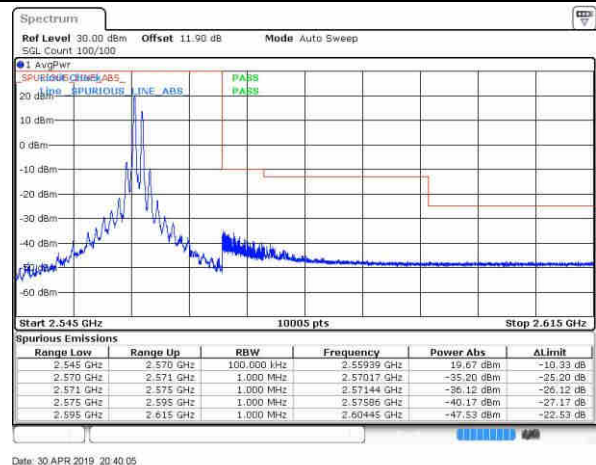
Highest Band Edge / 1RB0 and 1RB49



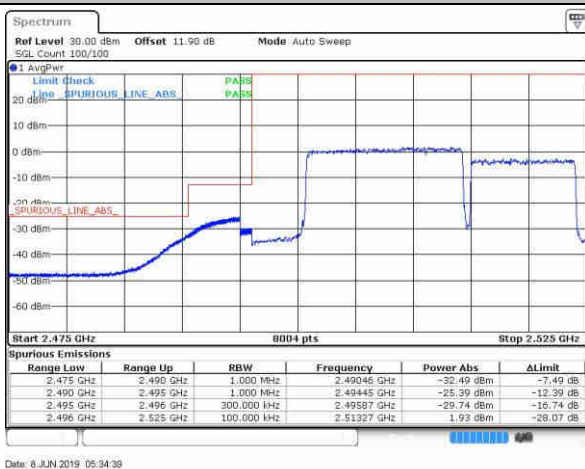
Lowest Band Edge / 1RB74 and 1RB0



Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

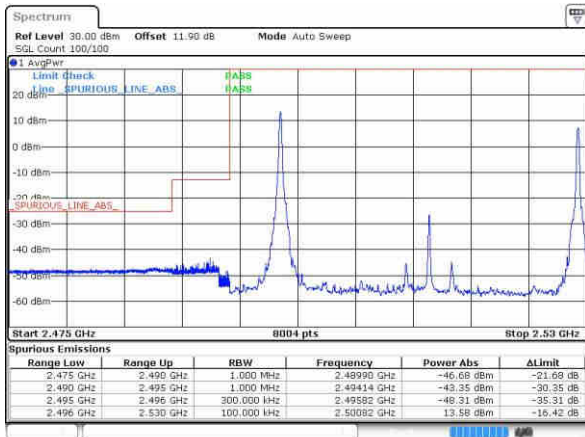




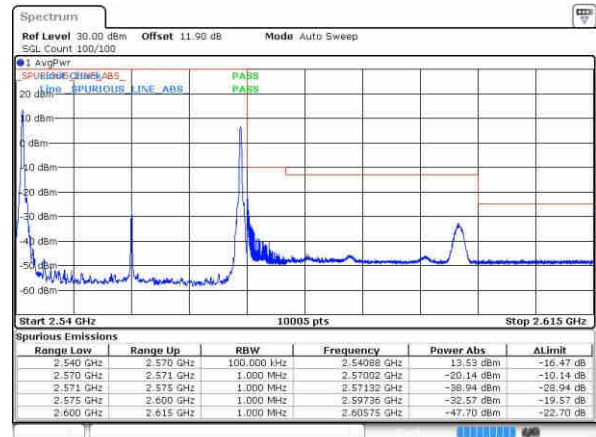
LTE Band 7 / 15MHz+15MHz

16QAM

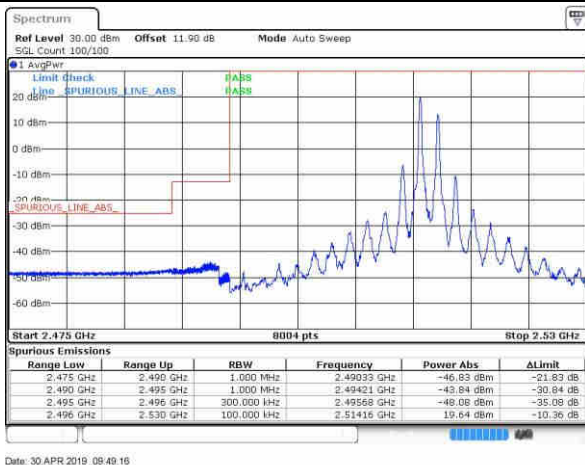
Lowest Band Edge / 1RB0 and 1RB74



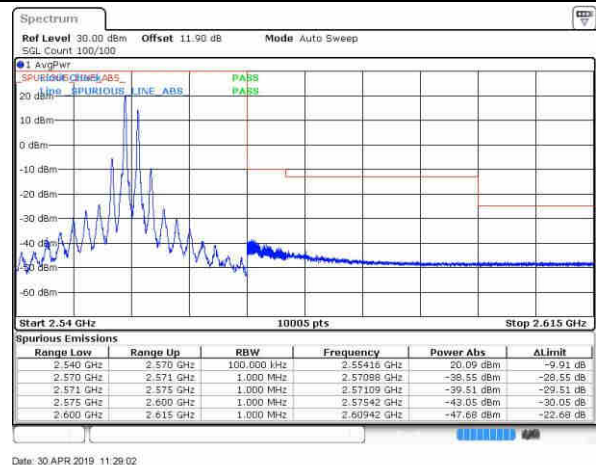
Highest Band Edge / 1RB0 and 1RB74



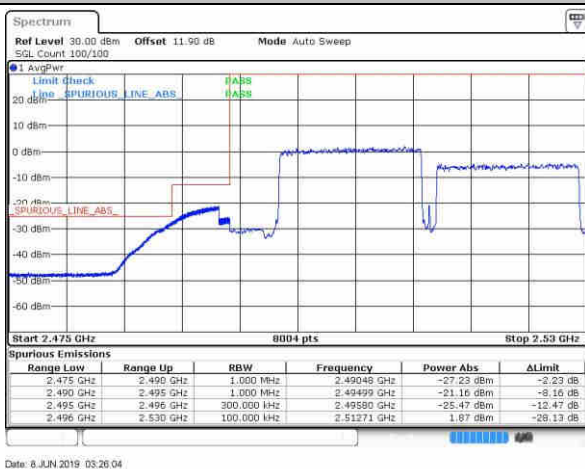
Lowest Band Edge / 1RB74 and 1RB0



Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

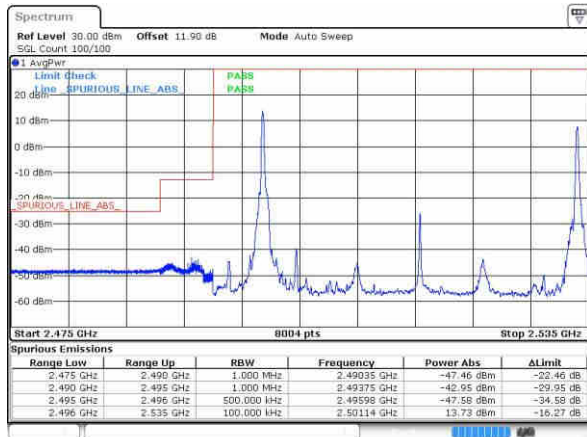




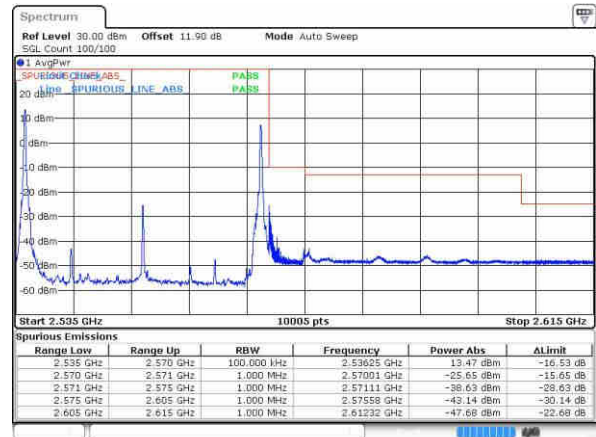
LTE Band 7 / 15MHz+20MHz

16QAM

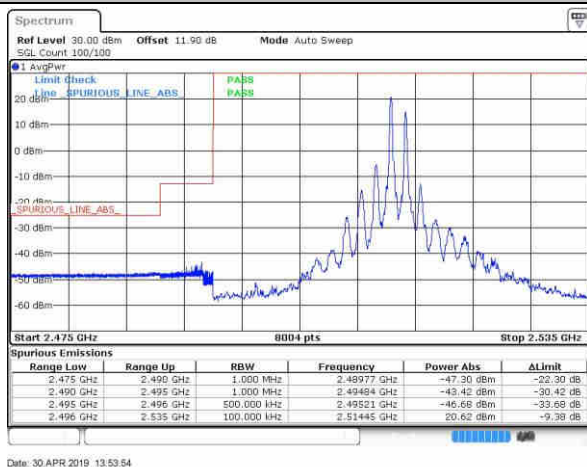
Lowest Band Edge / 1RB0 and 1RB99



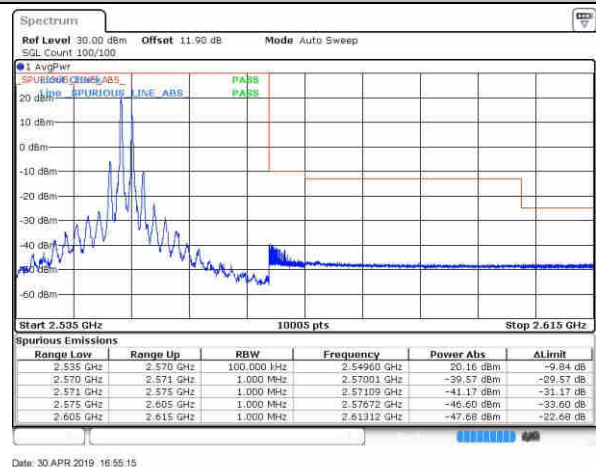
Highest Band Edge / 1RB0 and 1RB99



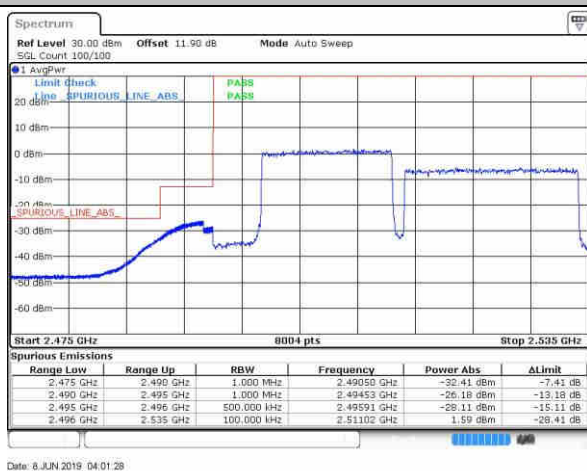
Lowest Band Edge / 1RB74 and 1RB0



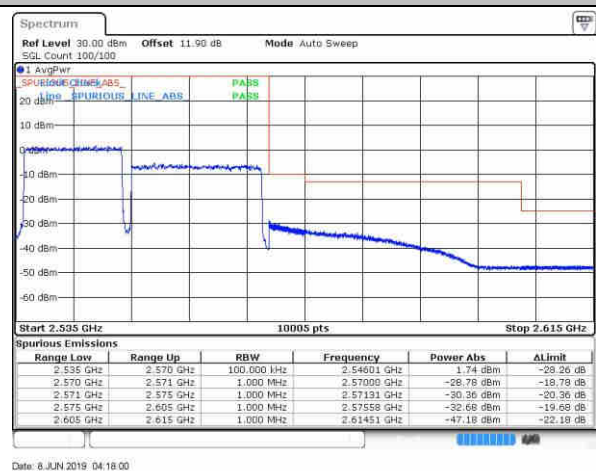
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

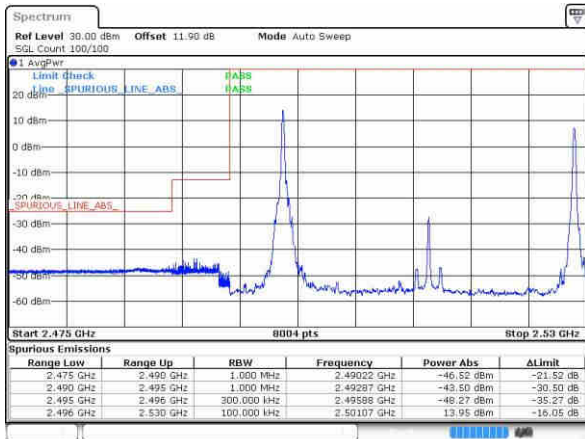




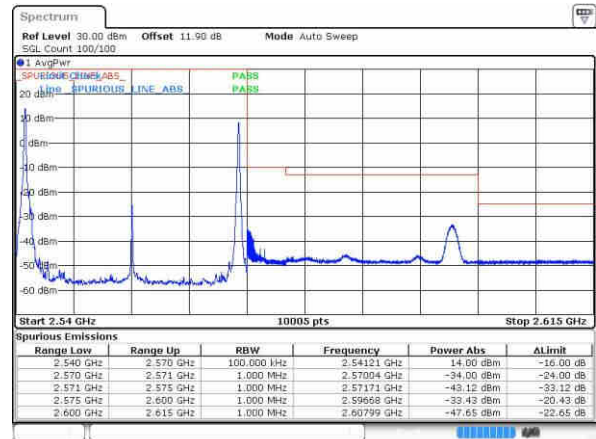
LTE Band 7 / 20MHz+10MHz

16QAM

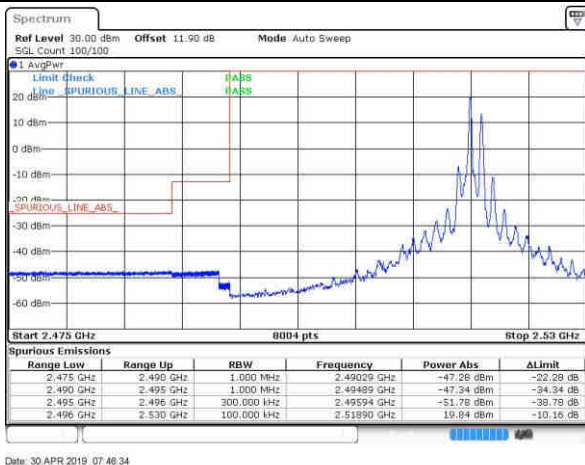
Lowest Band Edge / 1RB0 and 1RB49



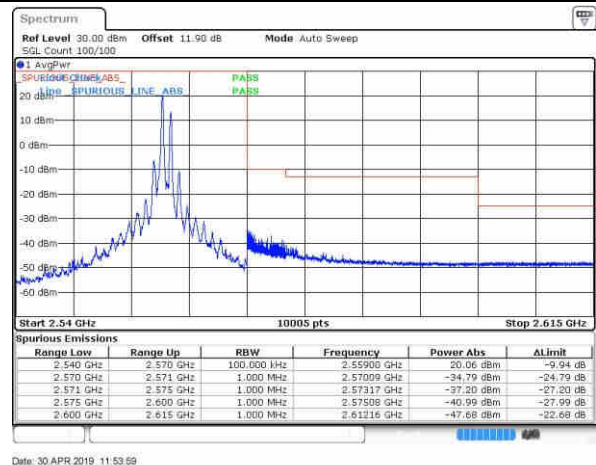
Highest Band Edge / 1RB0 and 1RB49



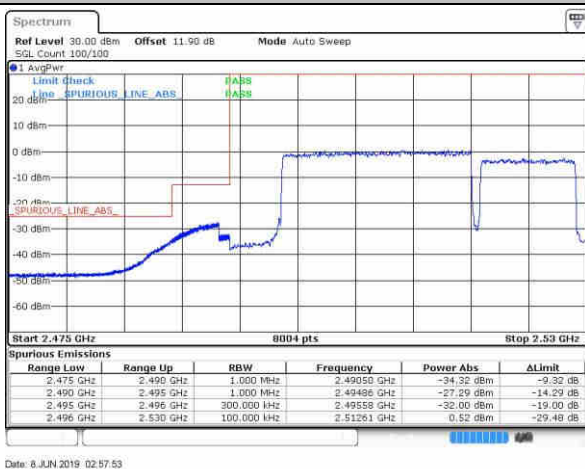
Lowest Band Edge / 1RB99 and 1RB0



Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

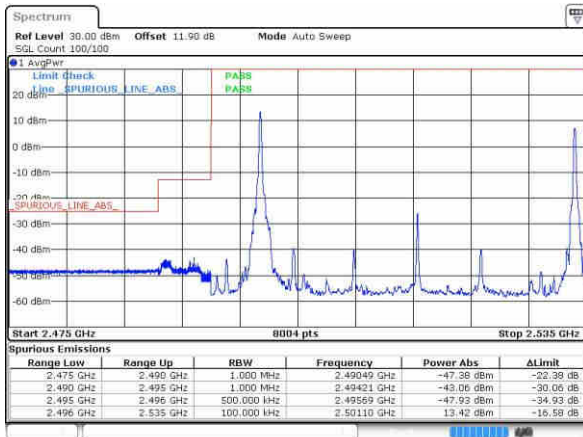




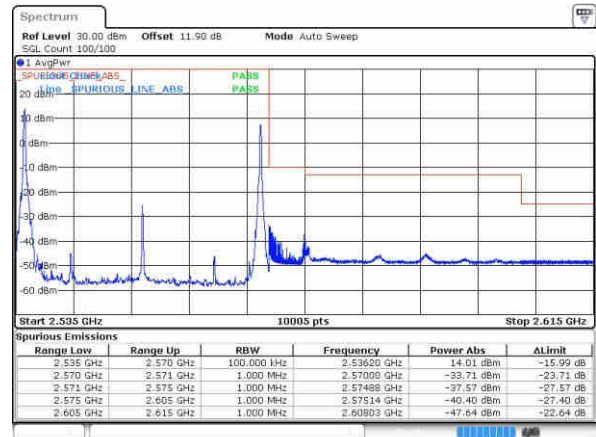
LTE Band 7 / 20MHz+15MHz

16QAM

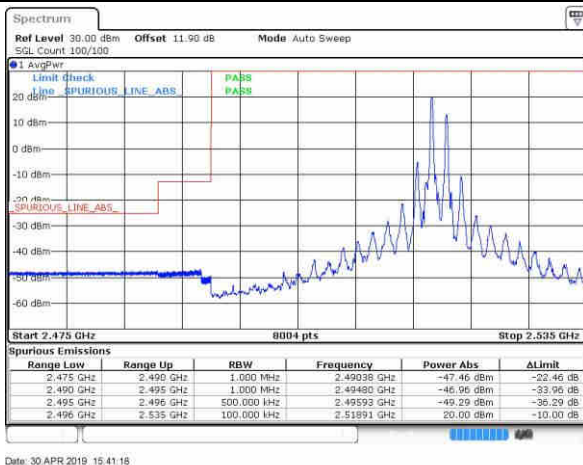
Lowest Band Edge / 1RB0 and 1RB74



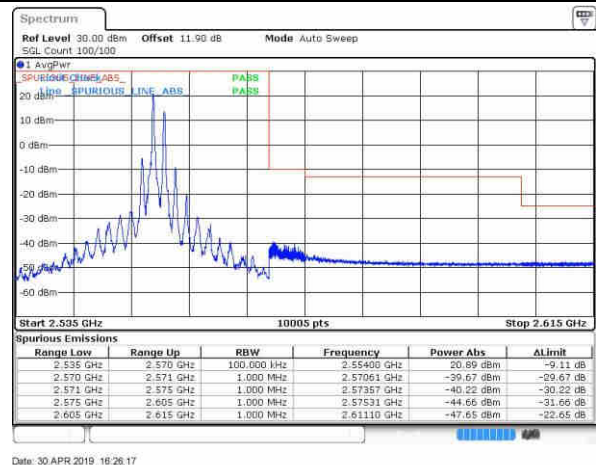
Highest Band Edge / 1RB0 and 1RB74



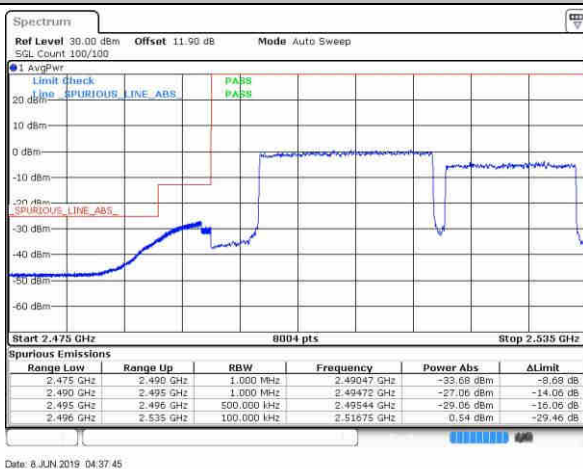
Lowest Band Edge / 1RB99 and 1RB0



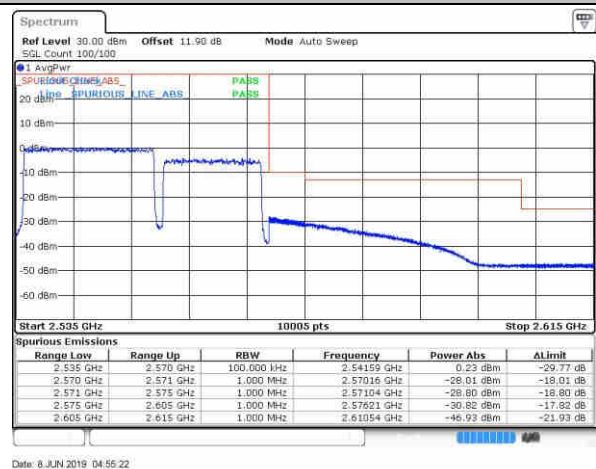
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

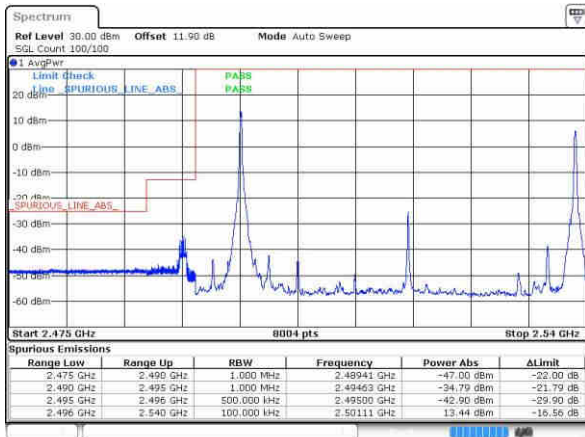




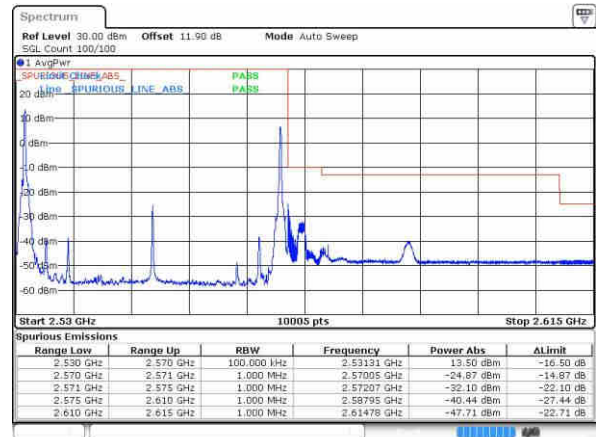
LTE Band 7 / 20MHz+20MHz

16QAM

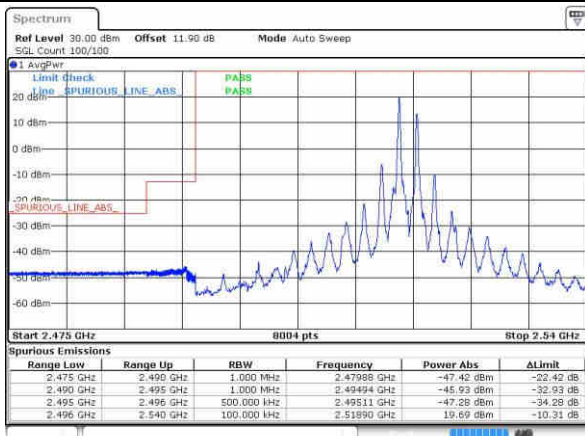
Lowest Band Edge / 1RB0 and 1RB99



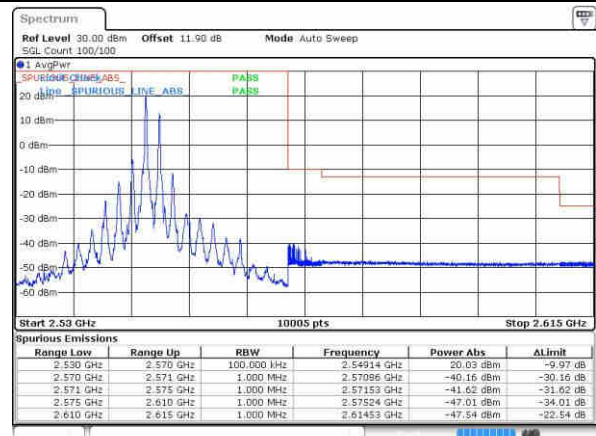
Highest Band Edge / 1RB0 and 1RB99



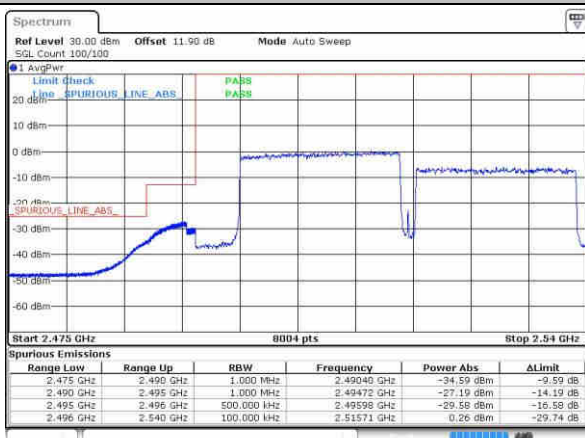
Lowest Band Edge / 1RB99 and 1RB0



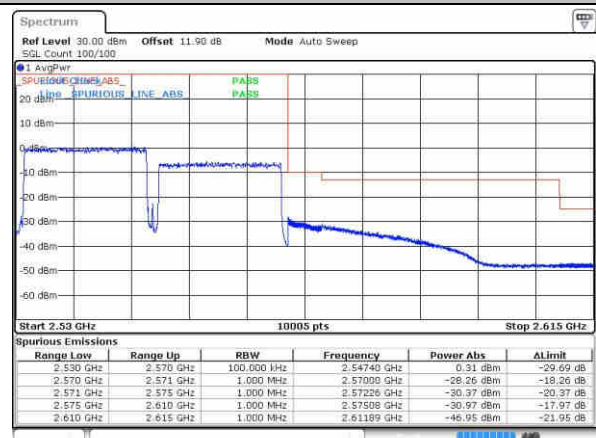
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

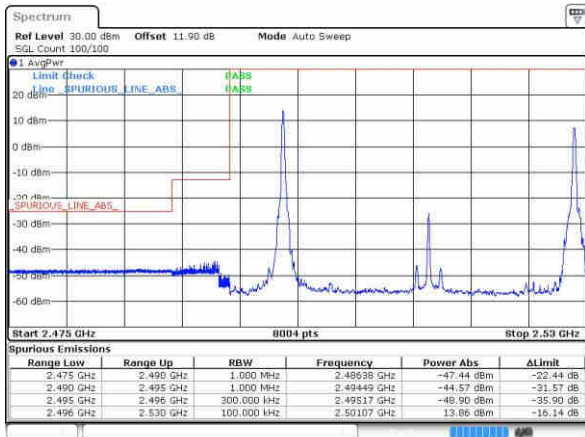




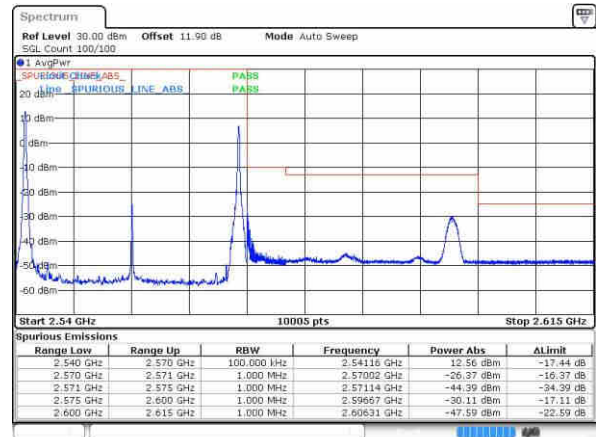
LTE Band 7 / 10MHz+20MHz

64QAM

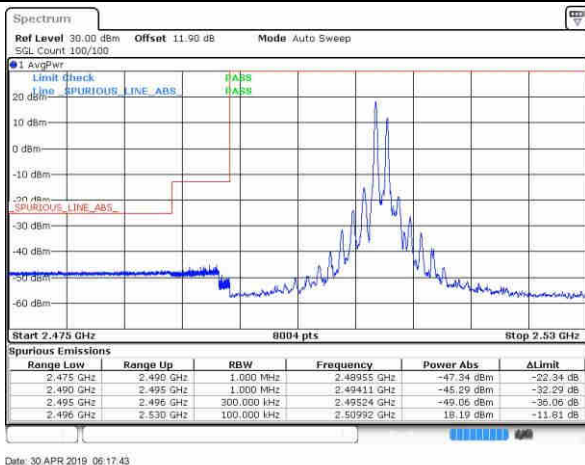
Lowest Band Edge / 1RB0 and 1RB99



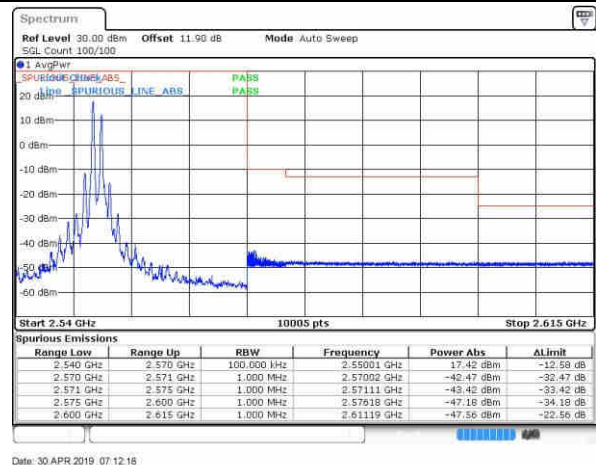
Highest Band Edge / 1RB0 and 1RB99



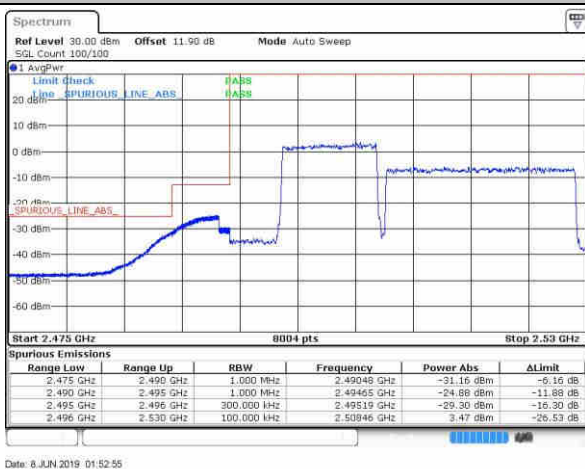
Lowest Band Edge / 1RB49 and 1RB0



Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

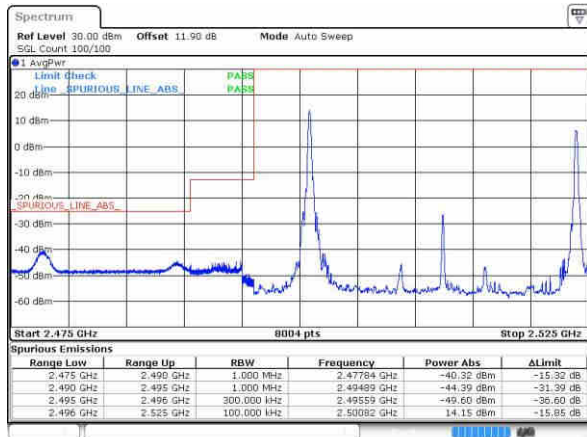




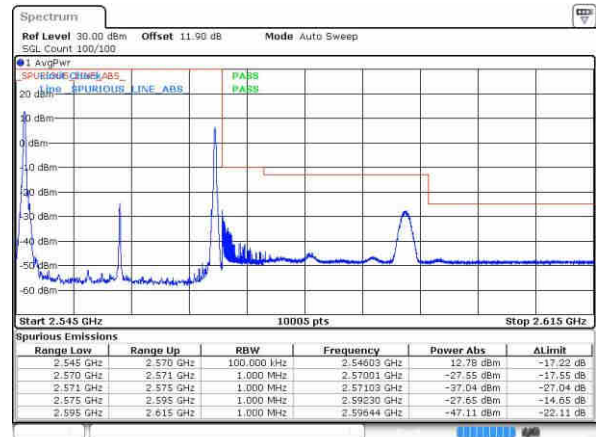
LTE Band 7 / 15MHz+10MHz

64QAM

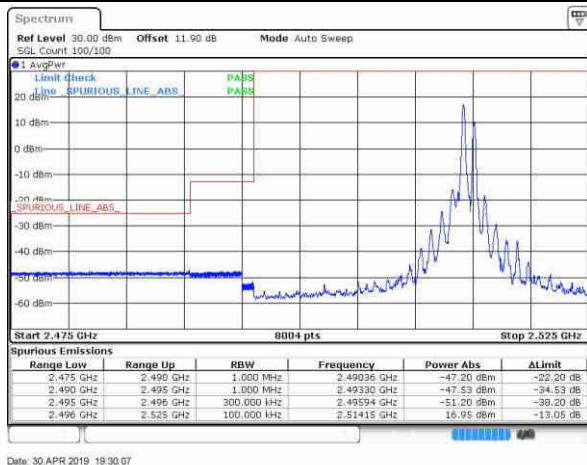
Lowest Band Edge / 1RB0 and 1RB49



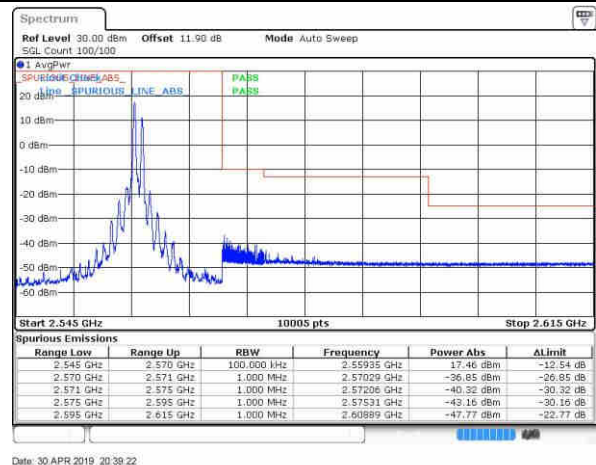
Highest Band Edge / 1RB0 and 1RB49



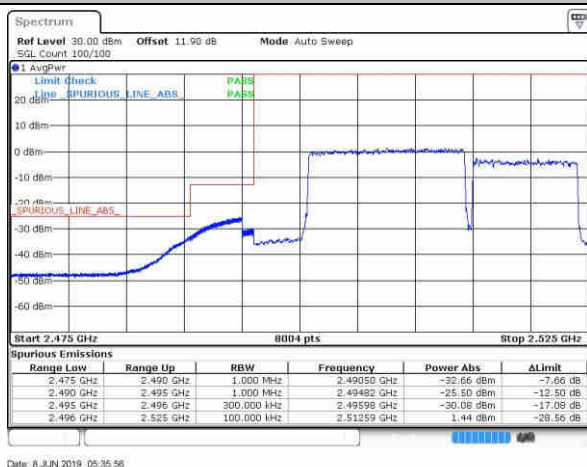
Lowest Band Edge / 1RB74 and 1RB0



Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

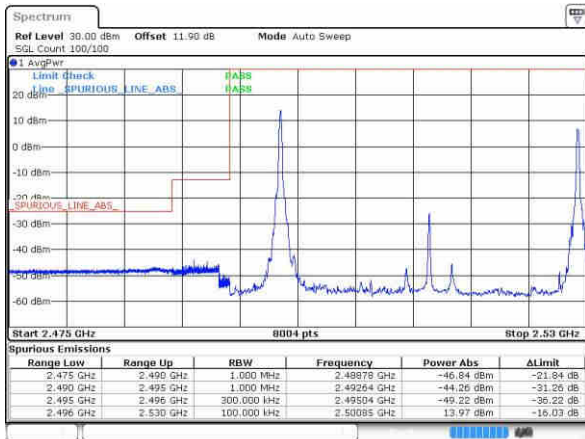




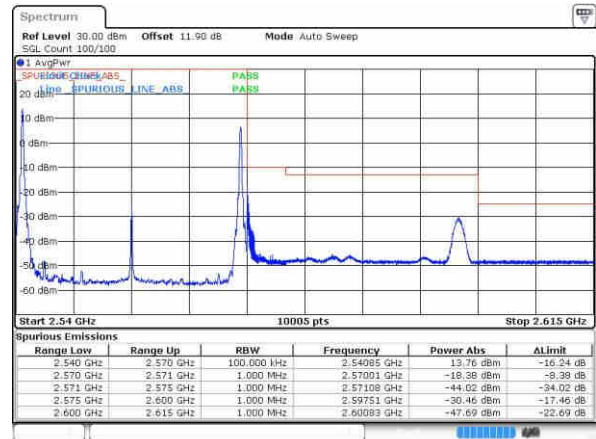
LTE Band 7 / 15MHz+15MHz

64QAM

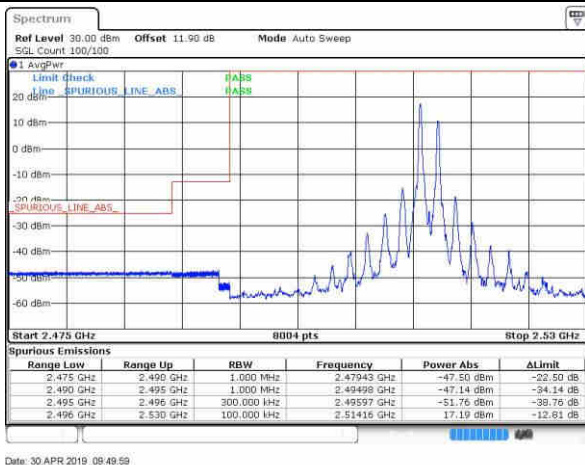
Lowest Band Edge / 1RB0 and 1RB74



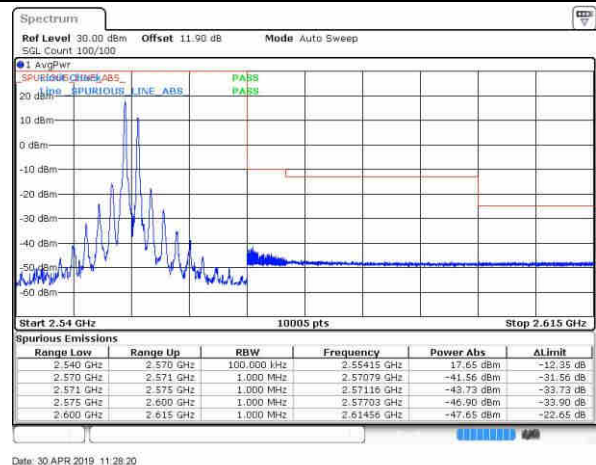
Highest Band Edge / 1RB0 and 1RB74



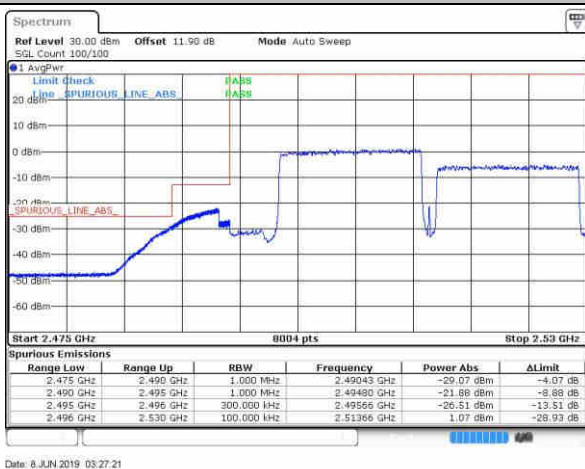
Lowest Band Edge / 1RB74 and 1RB0



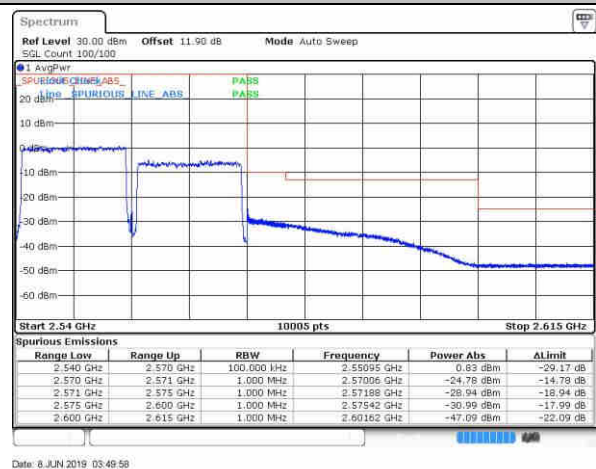
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

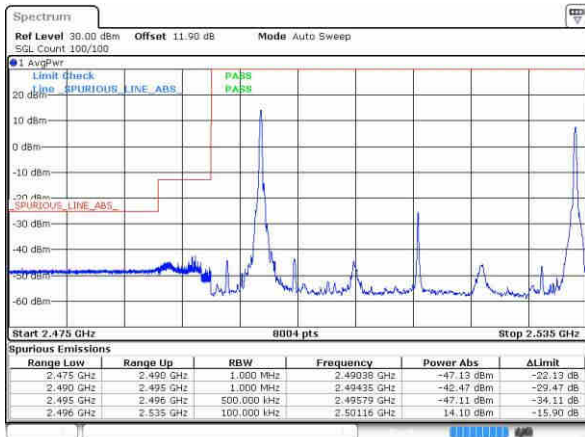




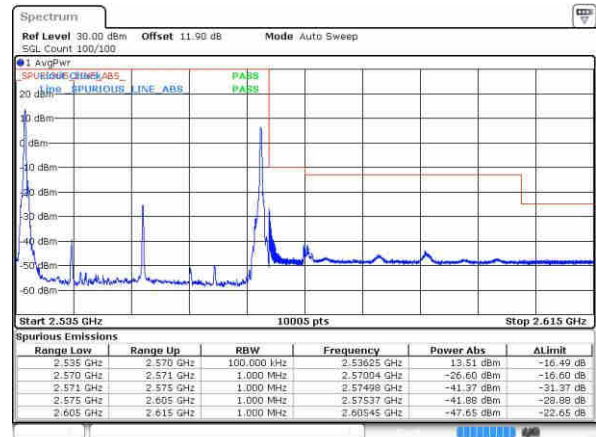
LTE Band 7 / 15MHz+20MHz

64QAM

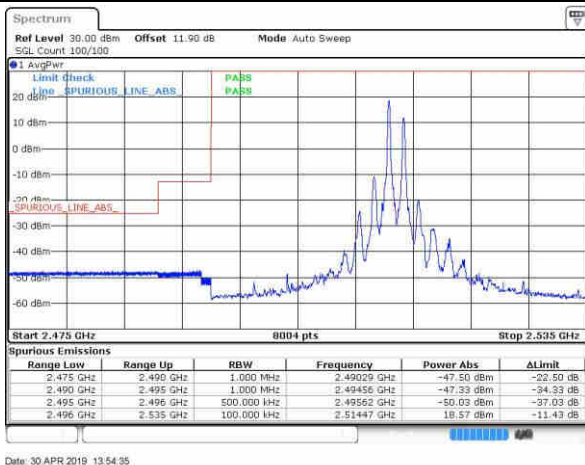
Lowest Band Edge / 1RB0 and 1RB99



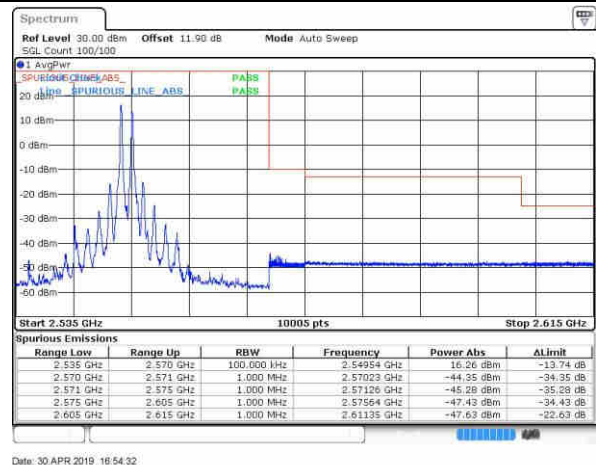
Highest Band Edge / 1RB0 and 1RB99



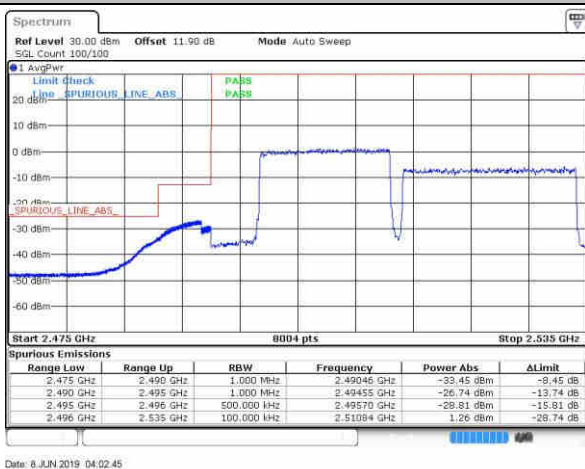
Lowest Band Edge / 1RB74 and 1RB0



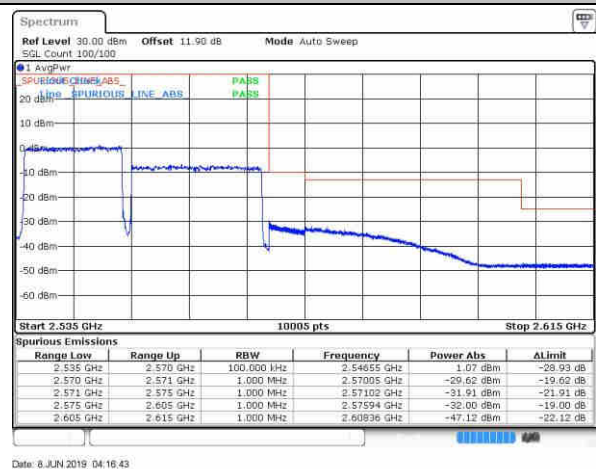
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

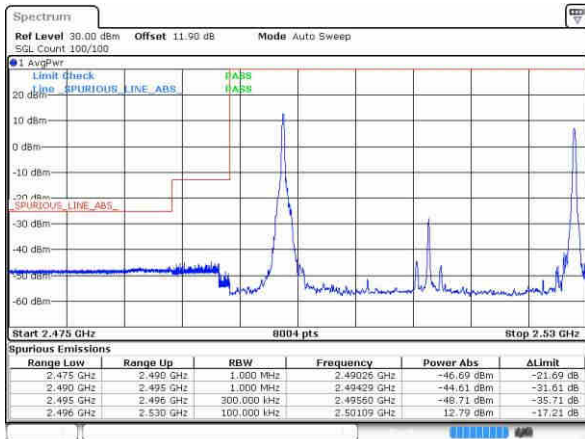




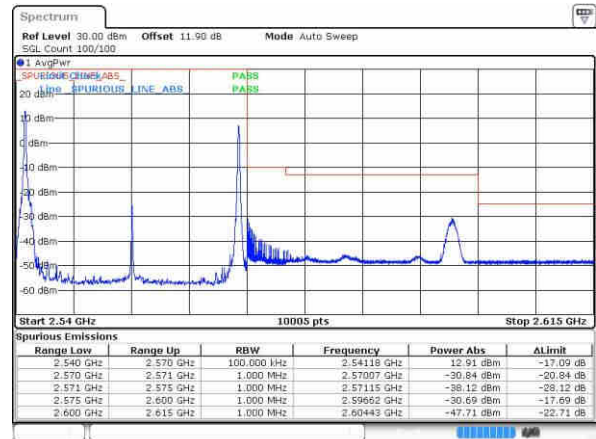
LTE Band 7 / 20MHz+10MHz

64QAM

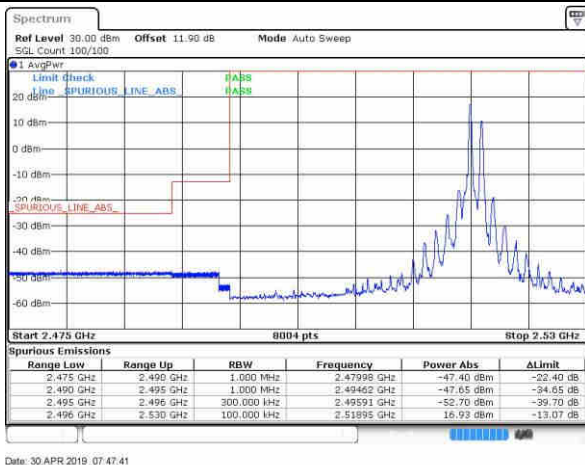
Lowest Band Edge / 1RB0 and 1RB49



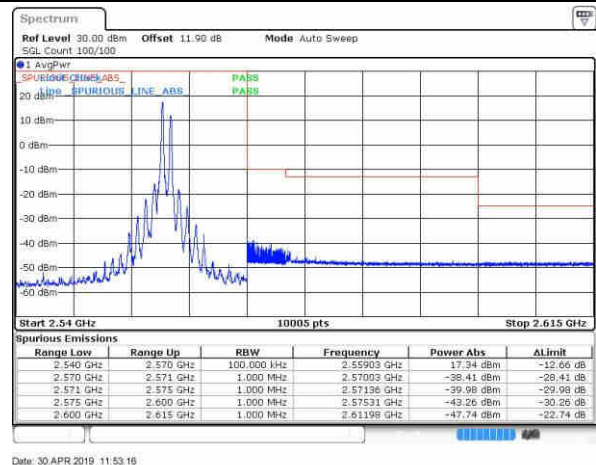
Highest Band Edge / 1RB0 and 1RB49



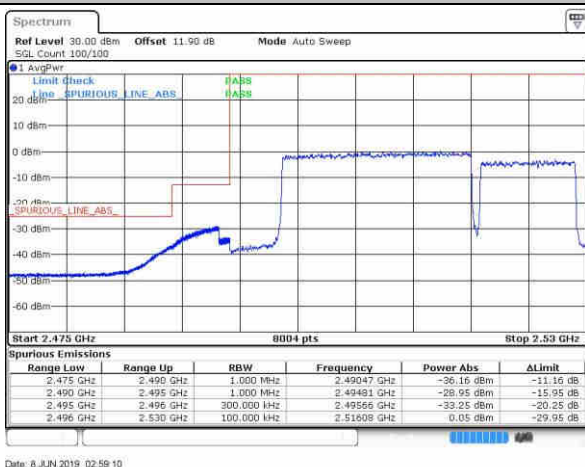
Lowest Band Edge / 1RB99 and 1RB0



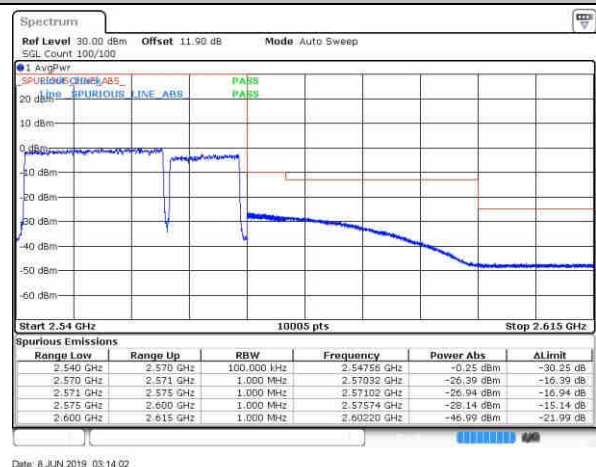
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

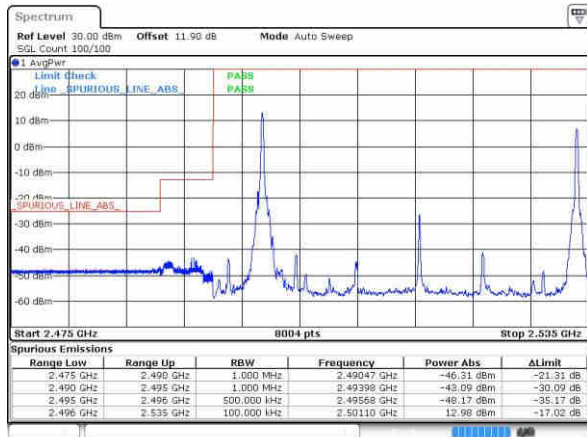




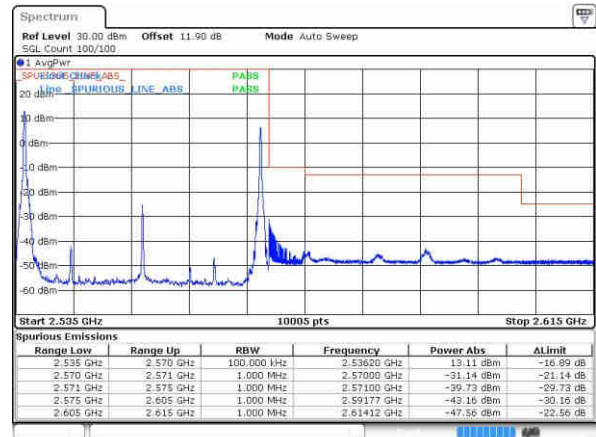
LTE Band 7 / 20MHz+15MHz

64QAM

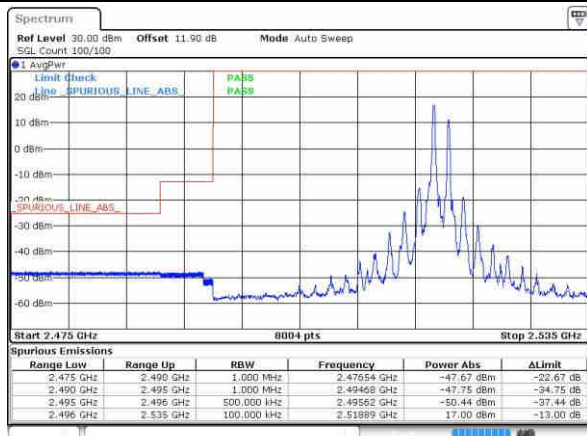
Lowest Band Edge / 1RB0 and 1RB74



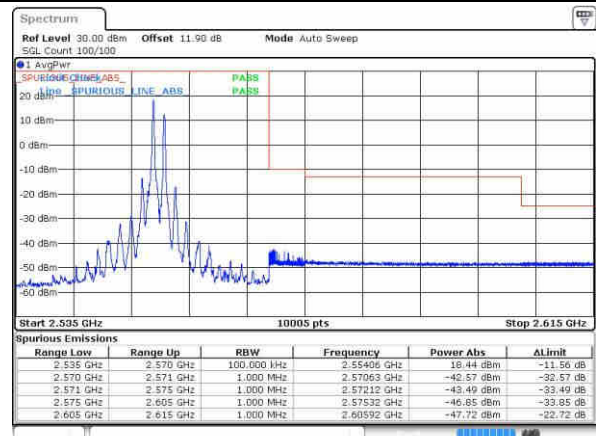
Highest Band Edge / 1RB0 and 1RB74



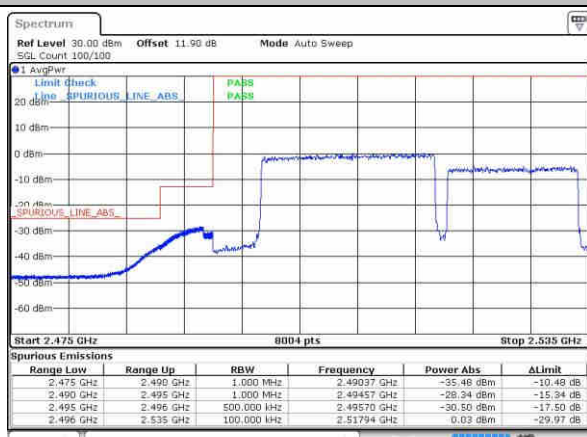
Lowest Band Edge / 1RB99 and 1RB0



Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

