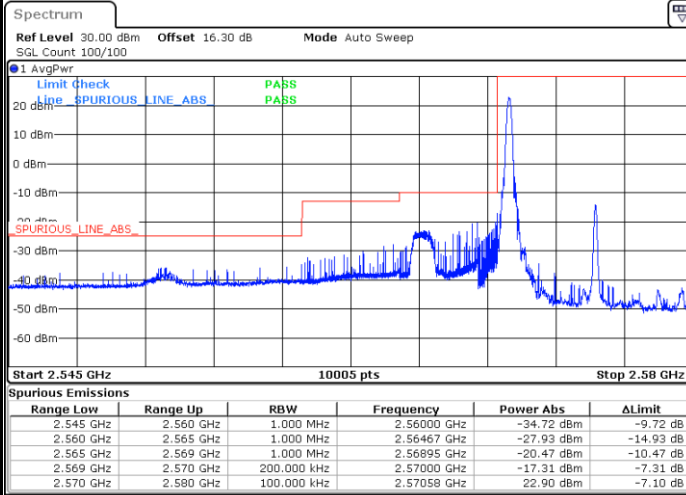


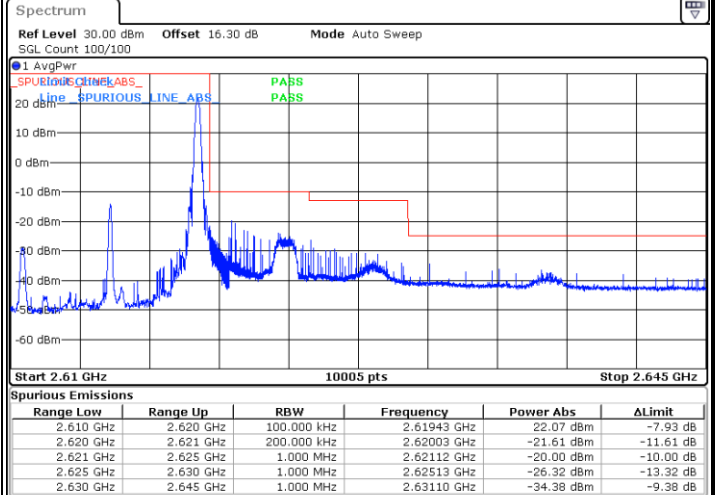


LTE Band 38 / 10MHz / 16QAM

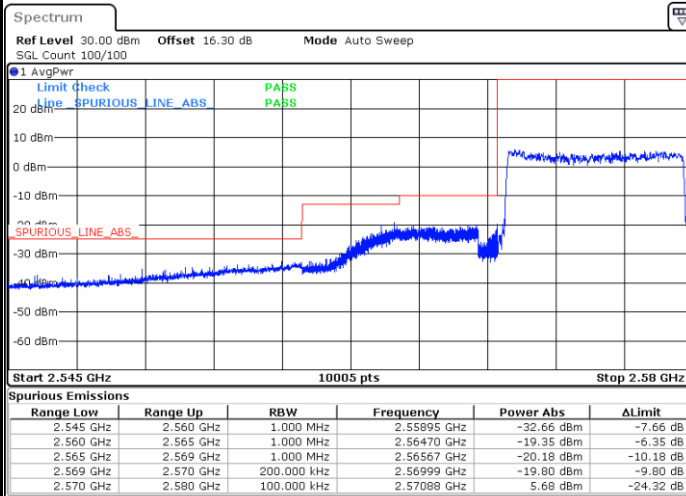
Lowest Band Edge / 1 RB



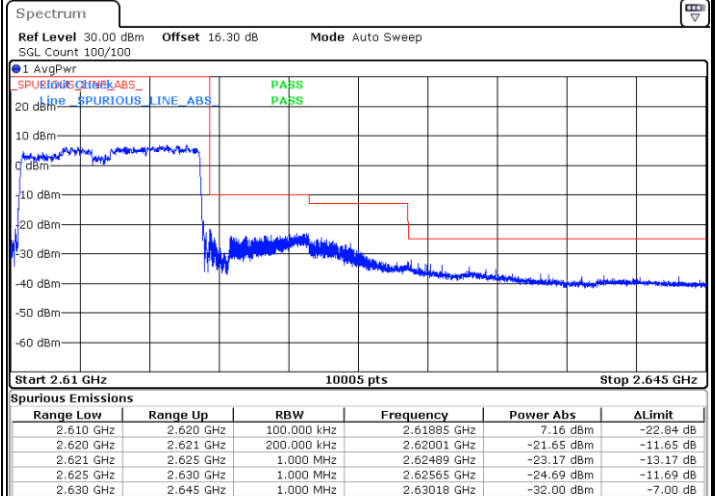
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



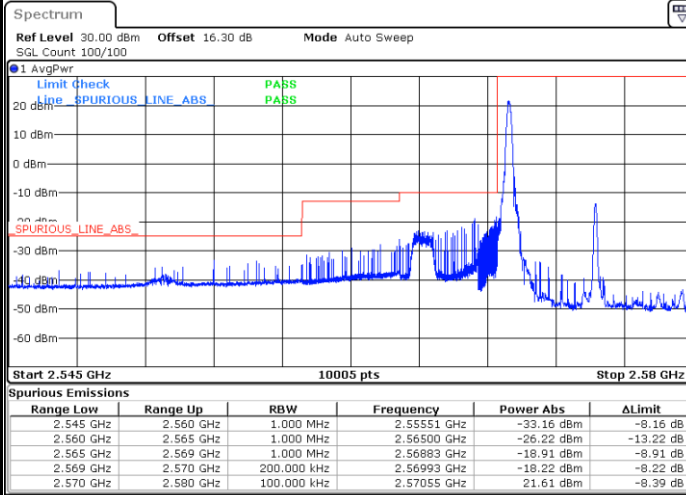
Highest Band Edge / Full RB



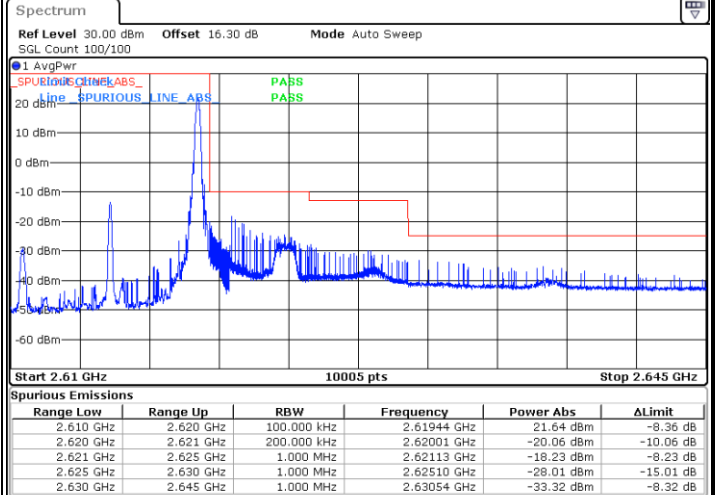


LTE Band 38 / 10MHz / 64QAM

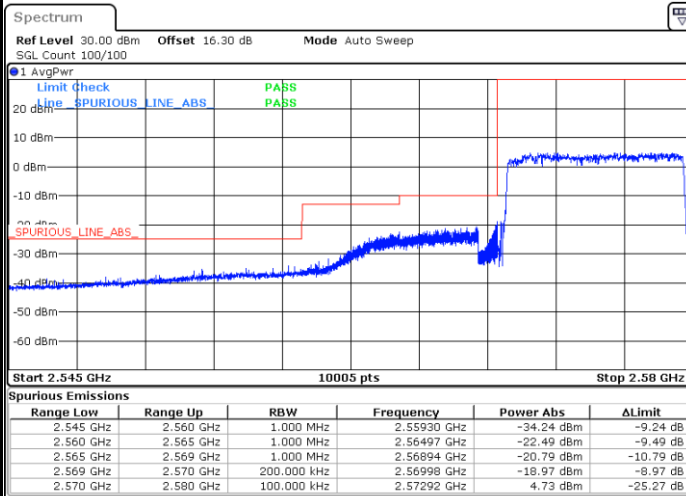
Lowest Band Edge / 1 RB



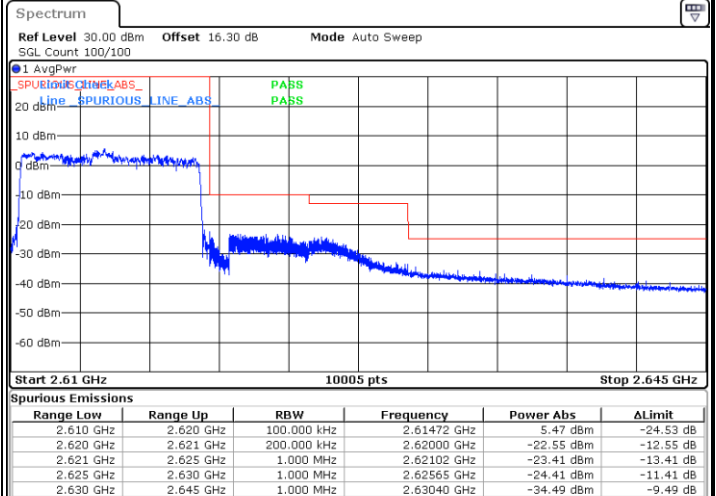
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



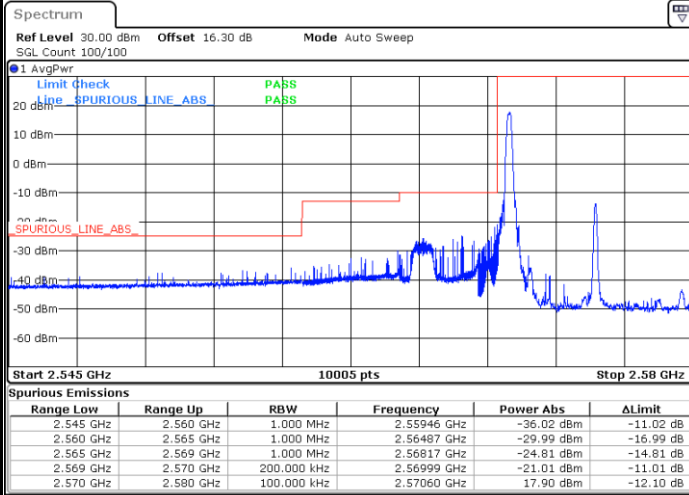
Highest Band Edge / Full RB



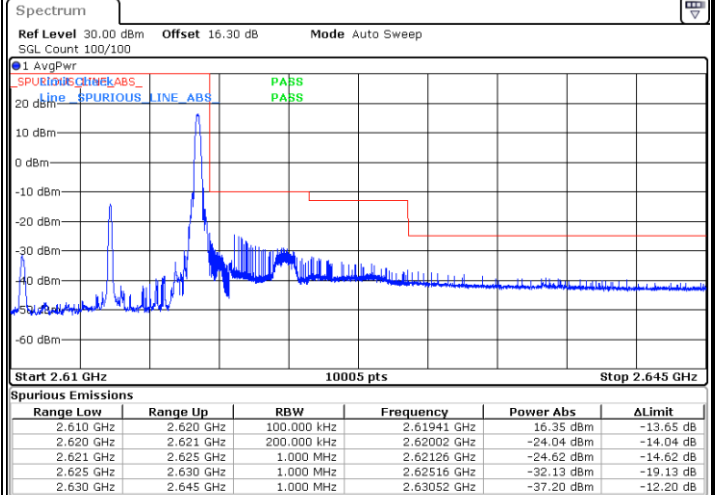


LTE Band 38 / 10MHz / 256QAM

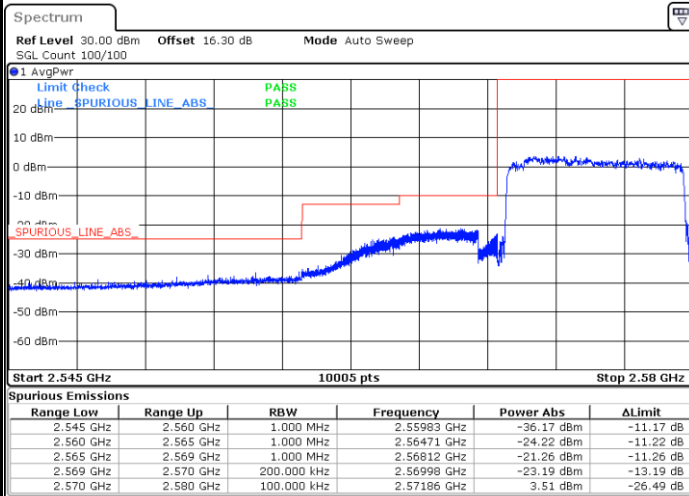
Lowest Band Edge / 1 RB



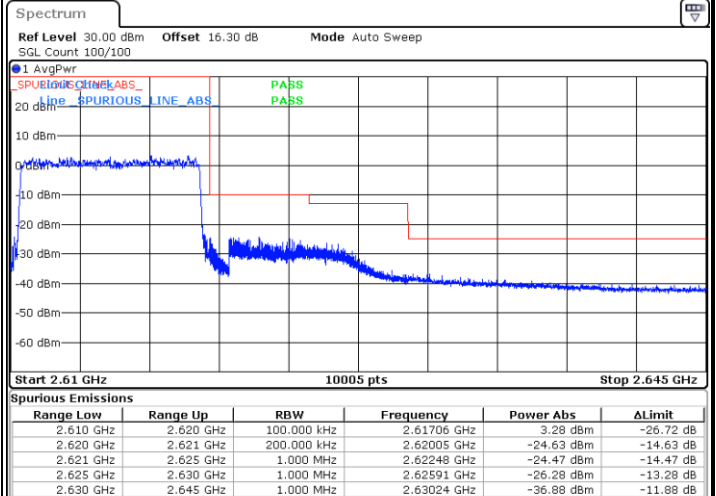
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



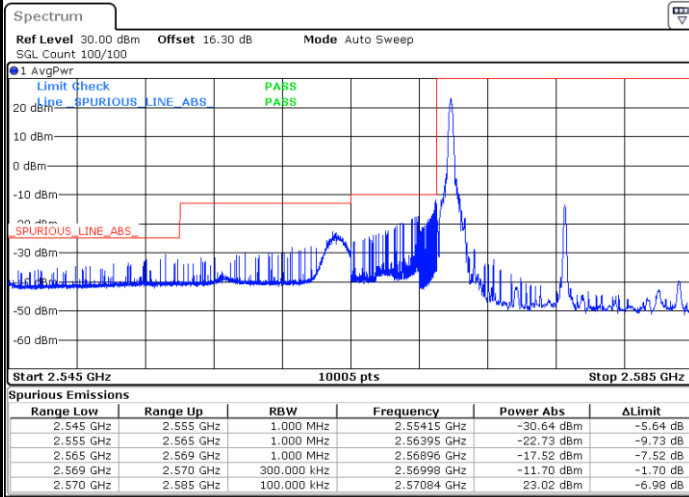
Highest Band Edge / Full RB



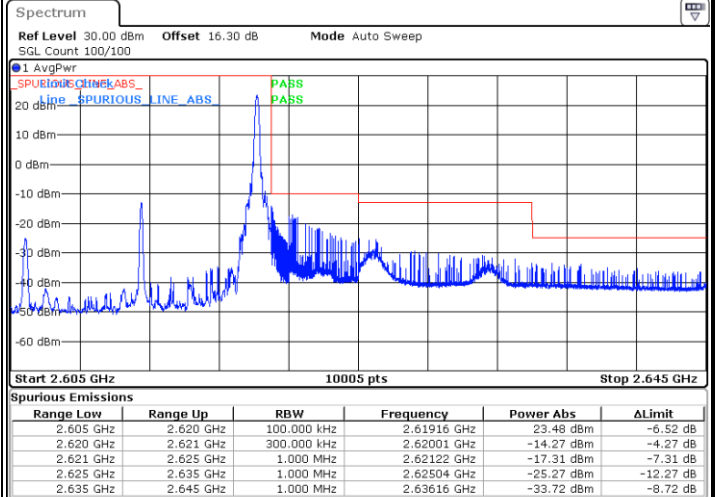


LTE Band 38 / 15MHz / QPSK

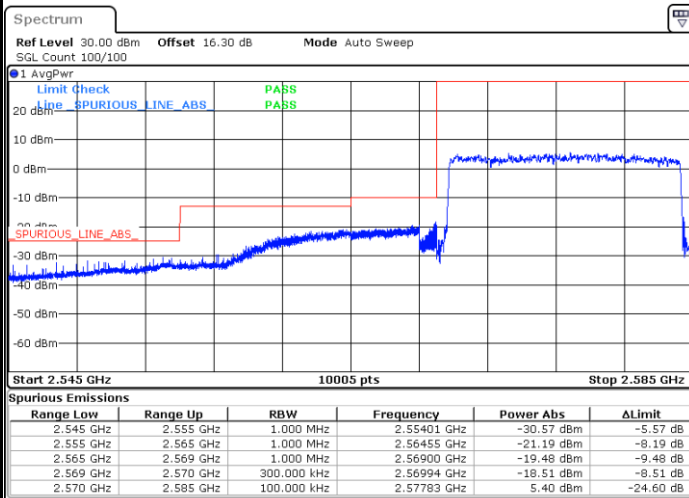
Lowest Band Edge / 1 RB



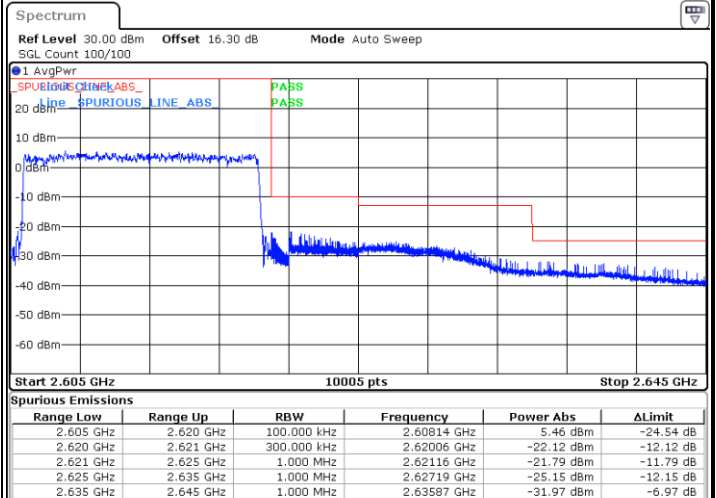
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



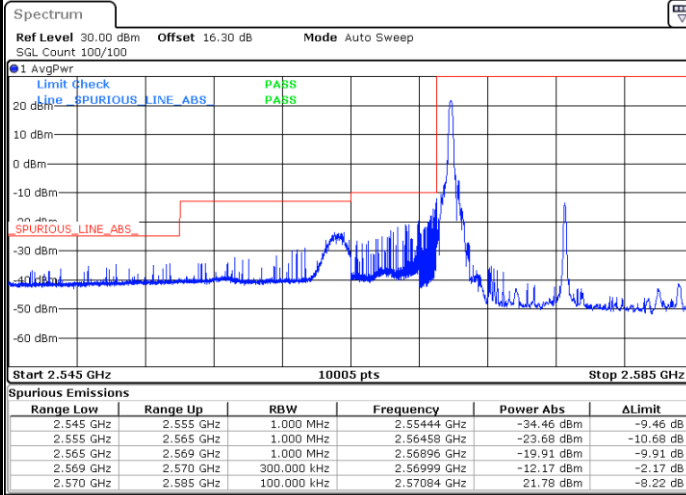
Highest Band Edge / Full RB



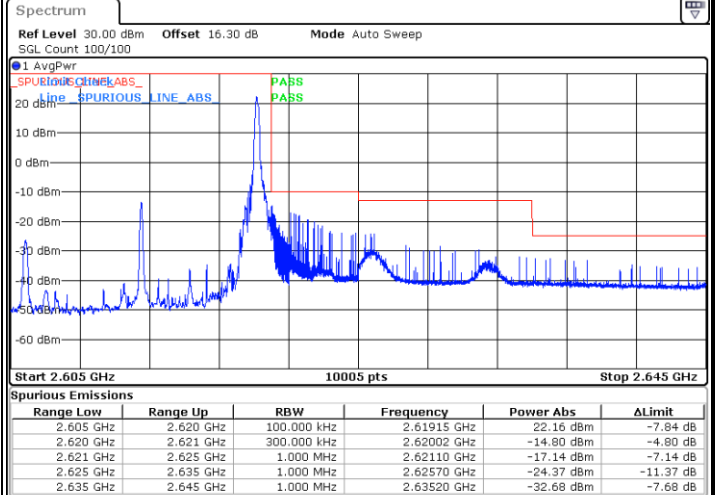


LTE Band 38 / 15MHz / 16QAM

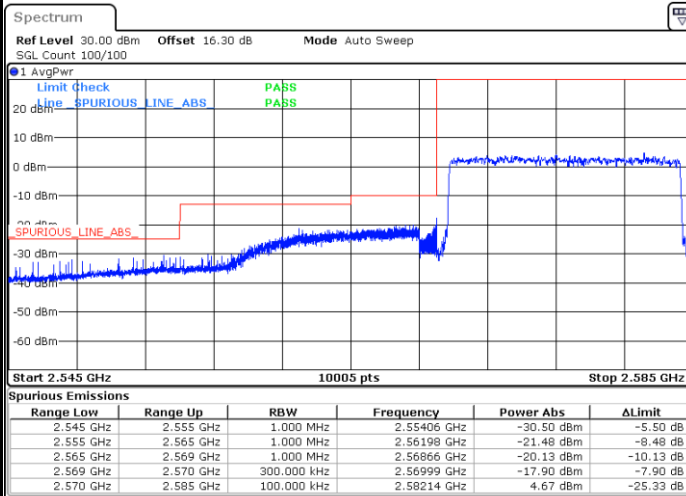
Lowest Band Edge / 1 RB



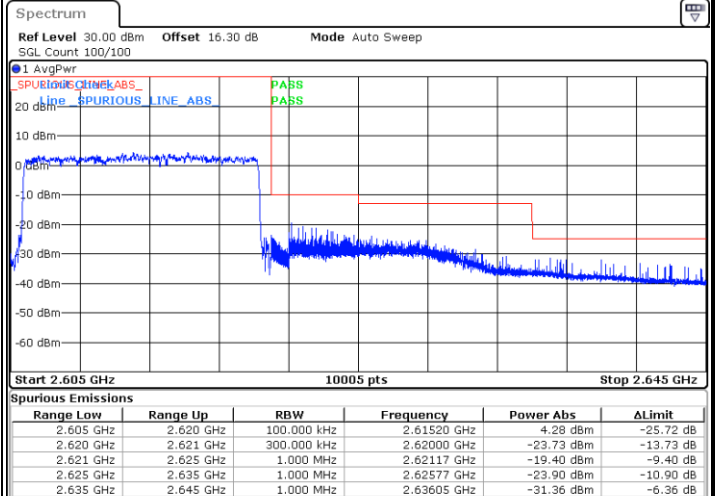
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



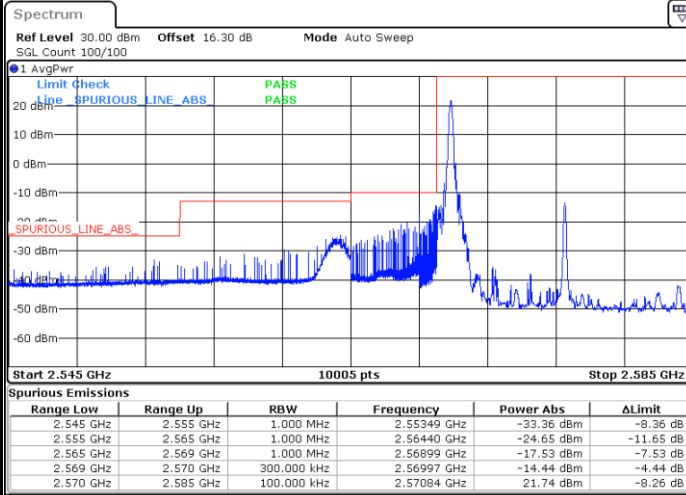
Highest Band Edge / Full RB



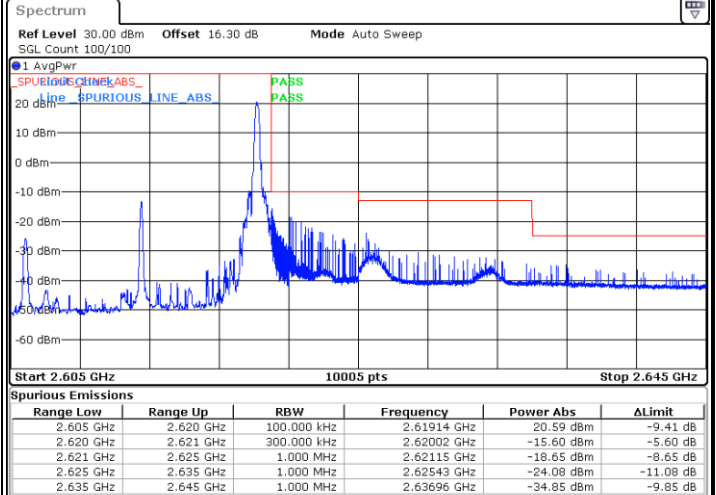


LTE Band 38 / 15MHz / 64QAM

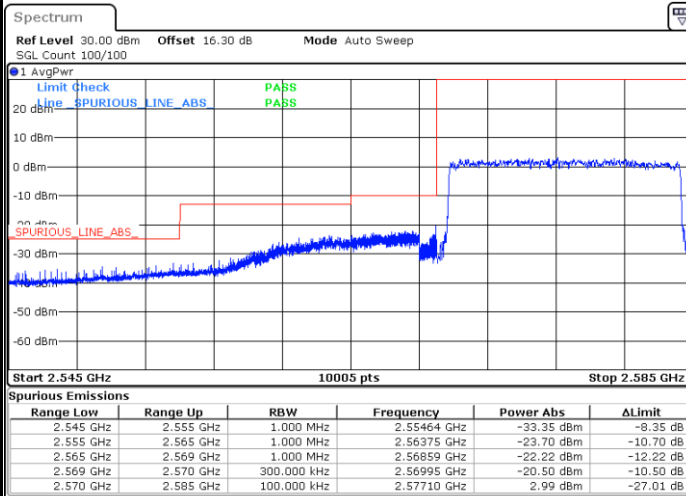
Lowest Band Edge / 1 RB



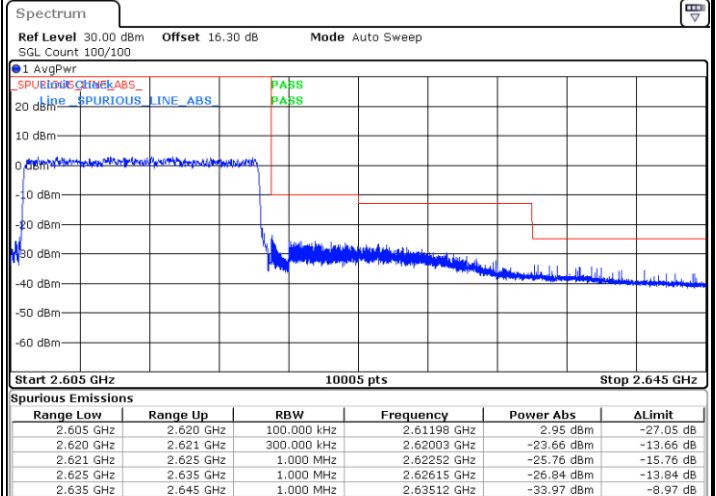
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



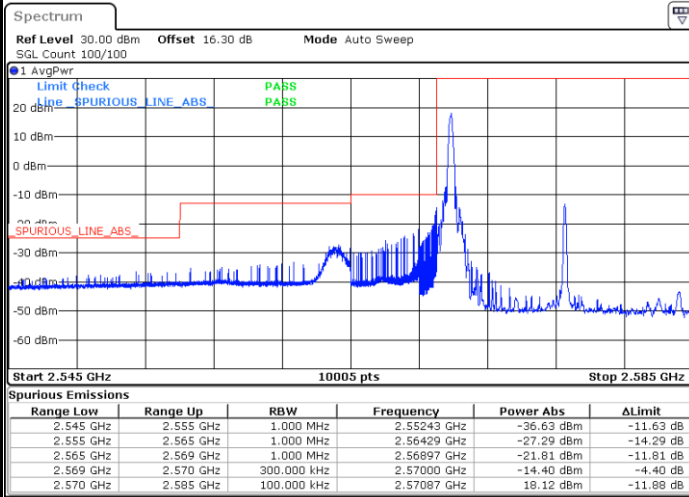
Highest Band Edge / Full RB



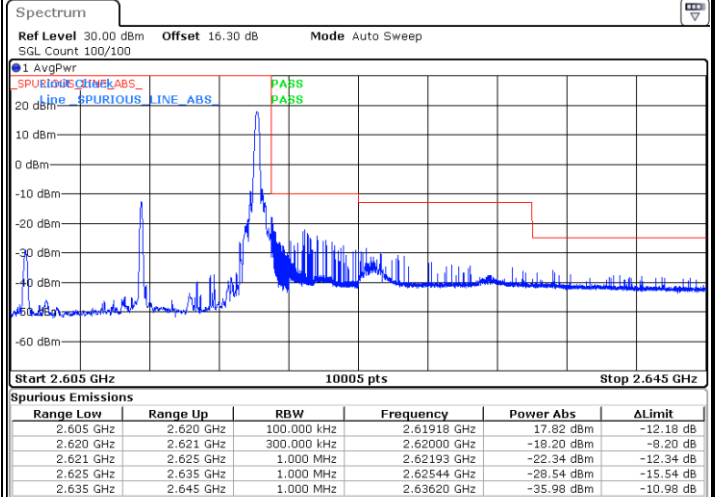


LTE Band 38 / 15MHz / 256QAM

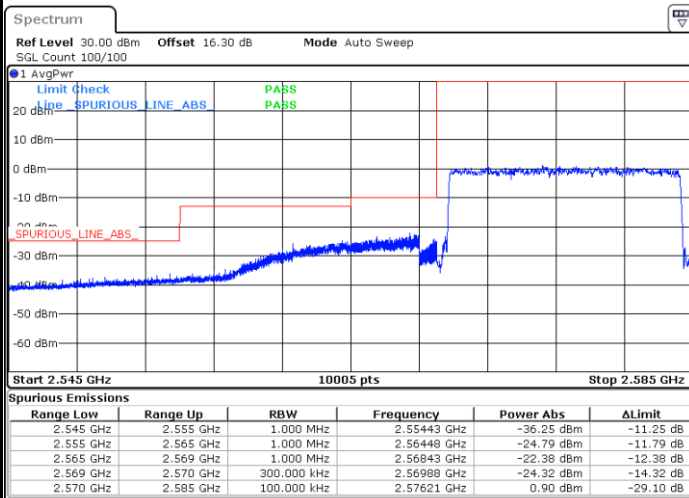
Lowest Band Edge / 1 RB



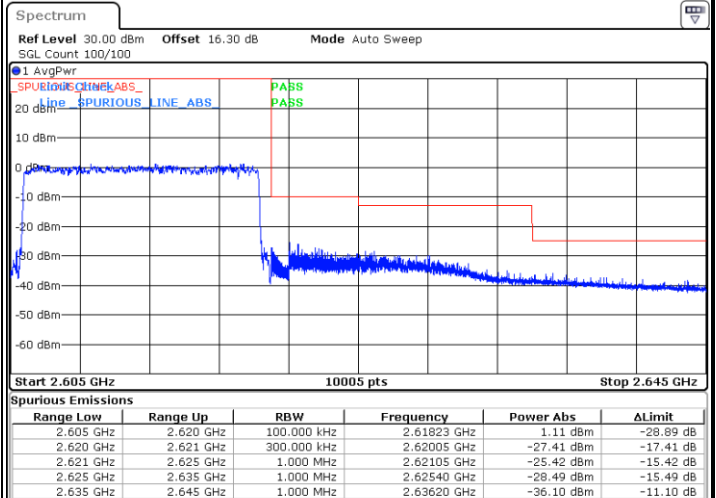
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



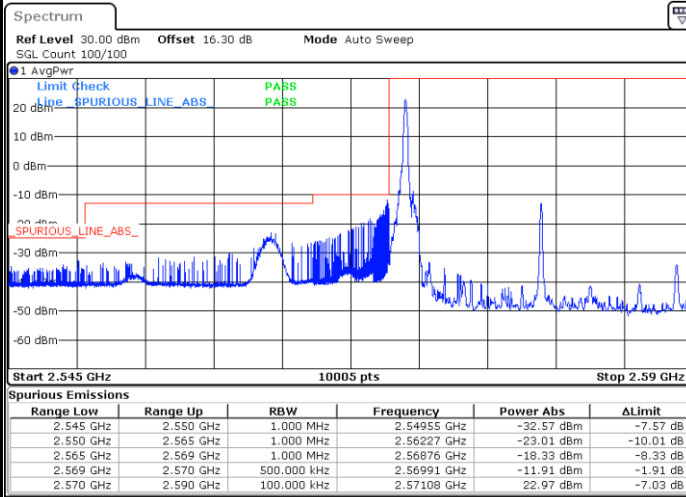
Highest Band Edge / Full RB



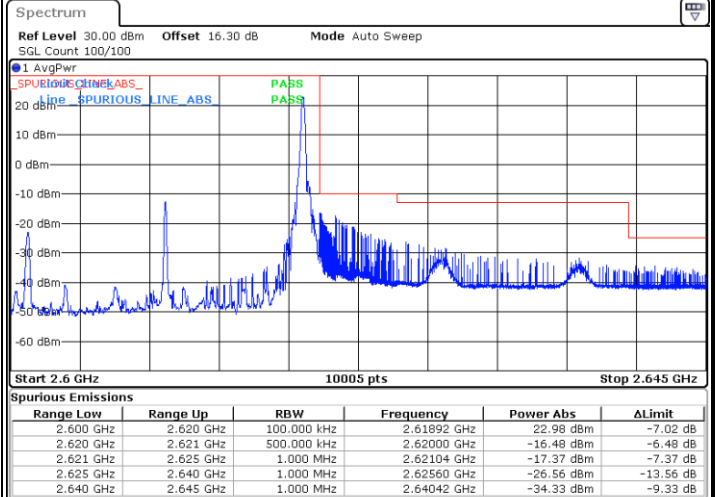


LTE Band 38 / 20MHz / QPSK

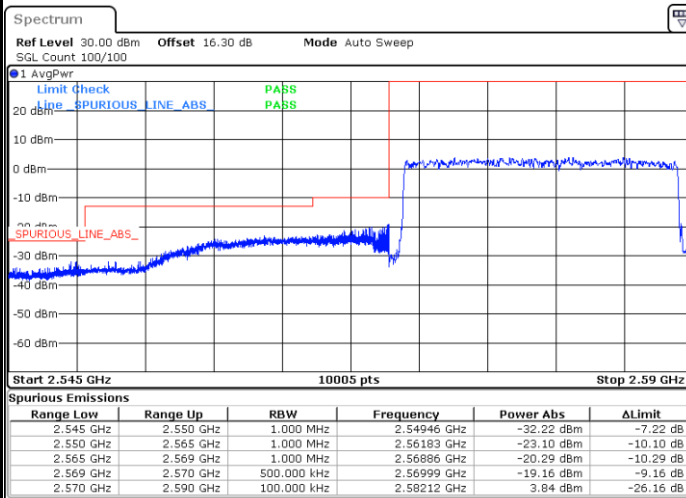
Lowest Band Edge / 1 RB



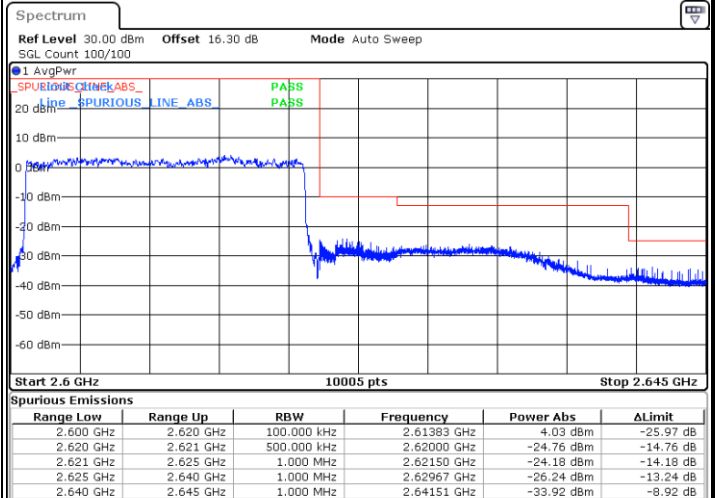
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



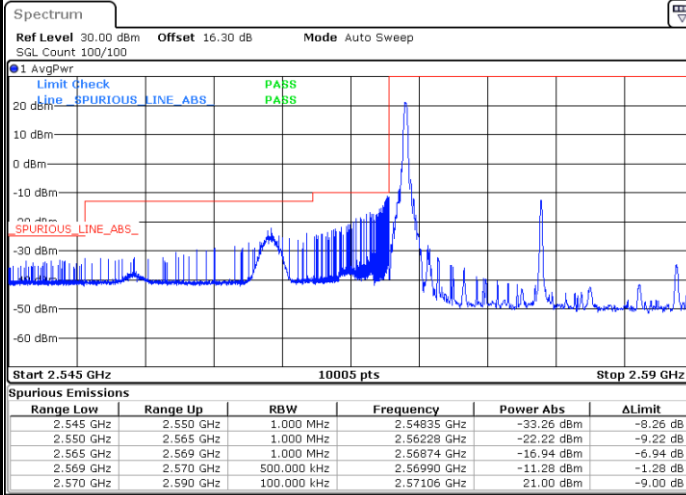
Highest Band Edge / Full RB



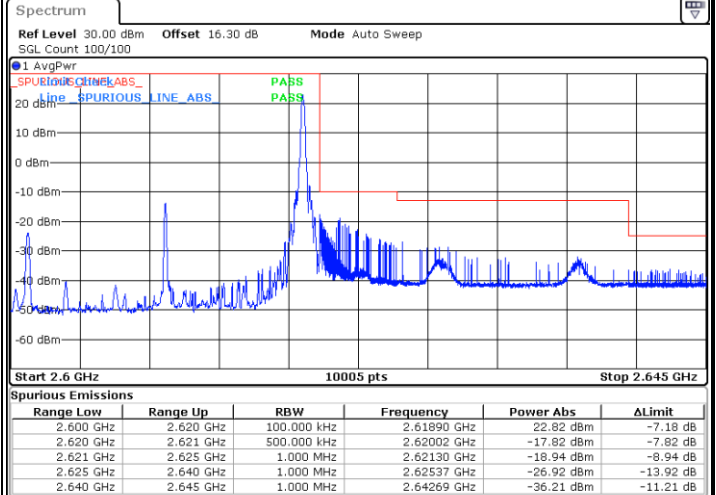


LTE Band 38 / 20MHz / 16QAM

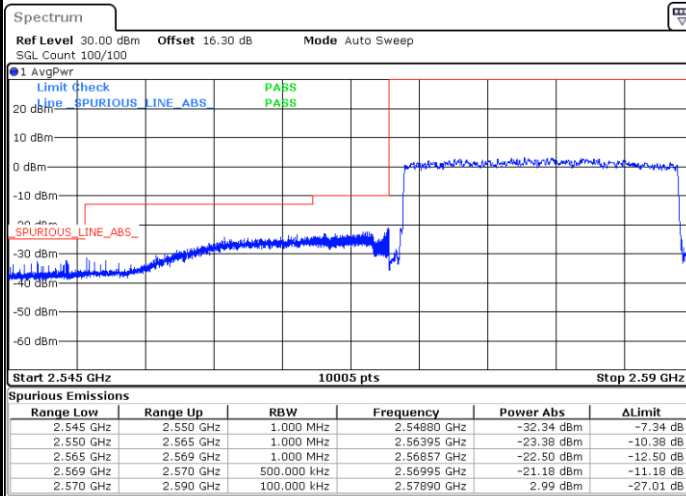
Lowest Band Edge / 1 RB



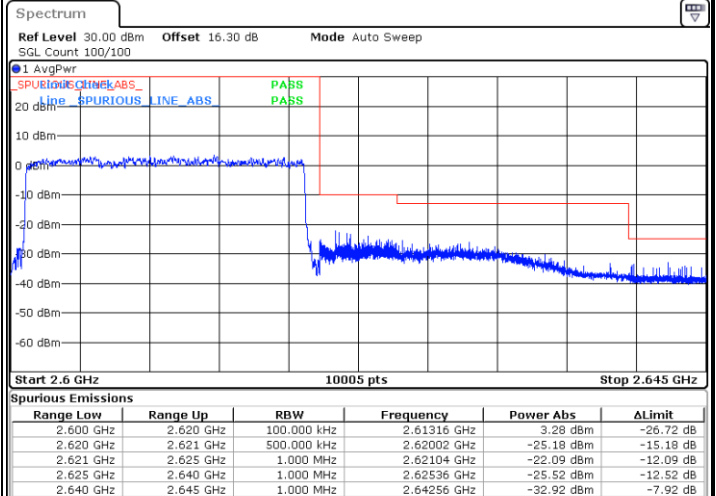
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



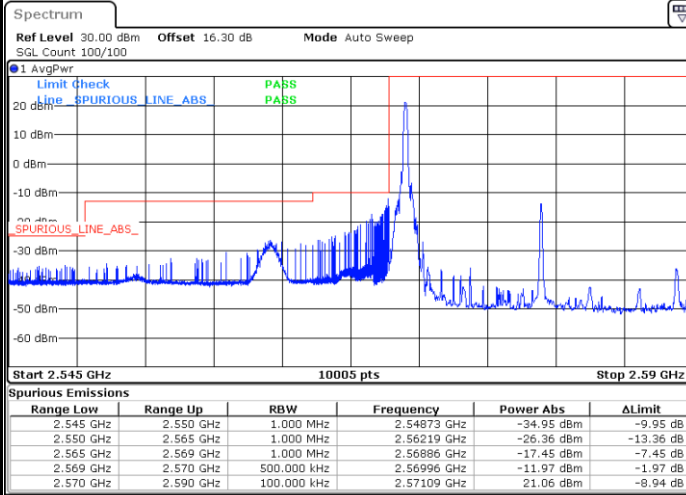
Highest Band Edge / Full RB



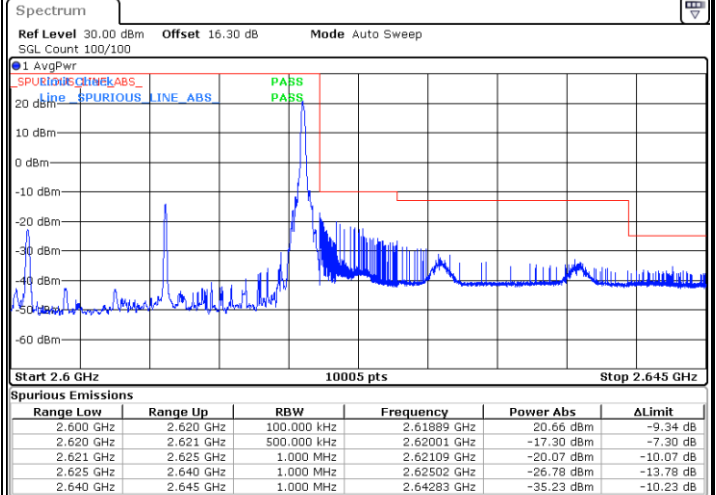


LTE Band 38 / 20MHz / 64QAM

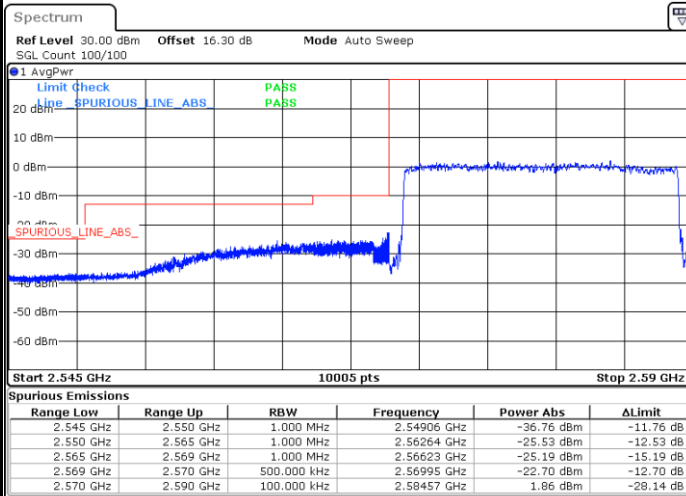
Lowest Band Edge / 1 RB



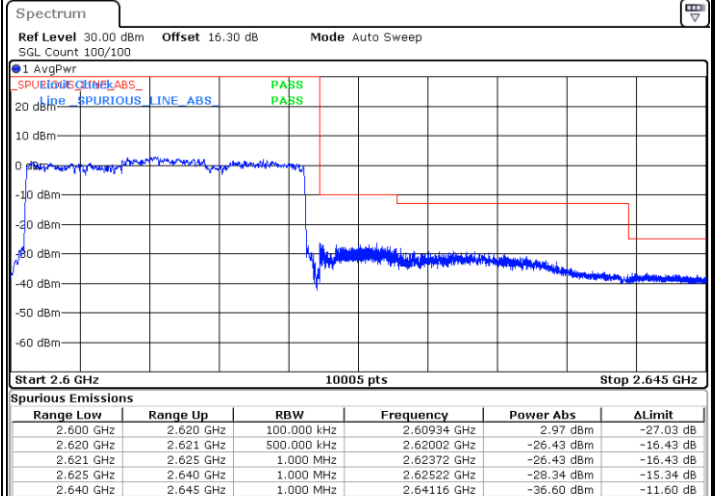
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



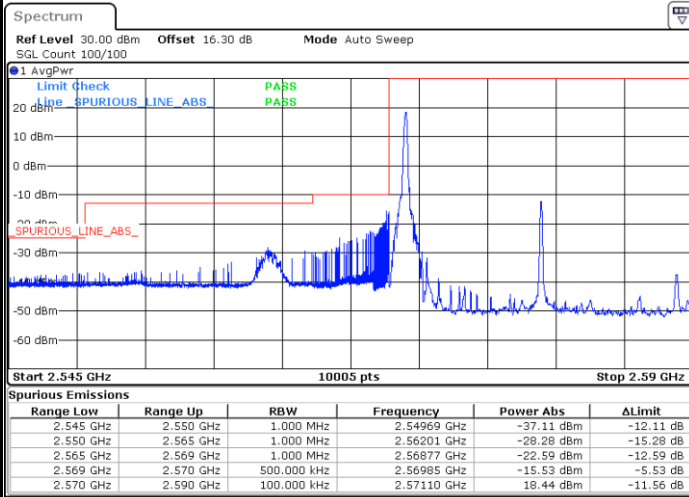
Highest Band Edge / Full RB



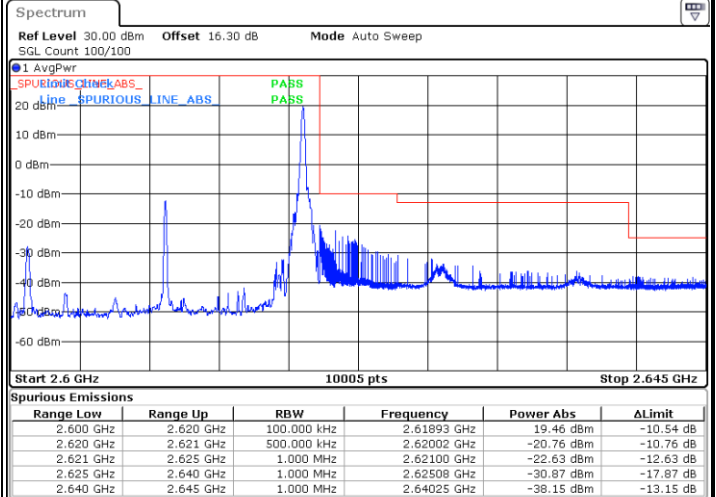


LTE Band 38 / 20MHz / 256QAM

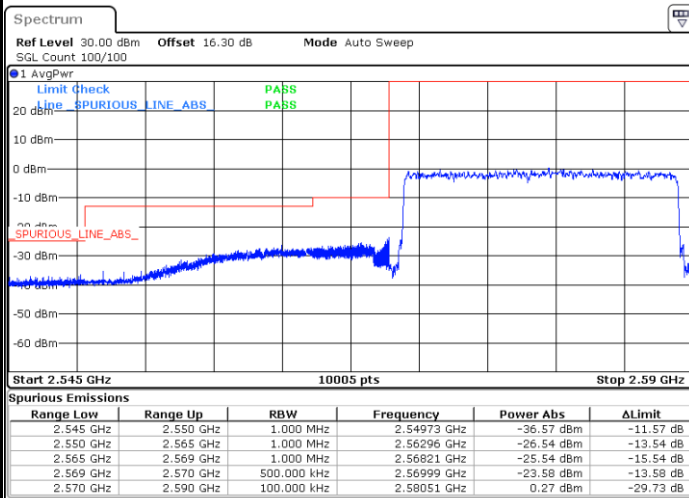
Lowest Band Edge / 1 RB



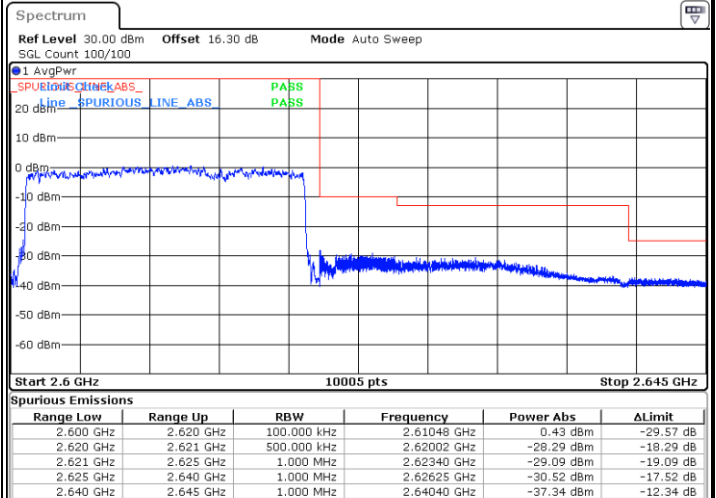
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



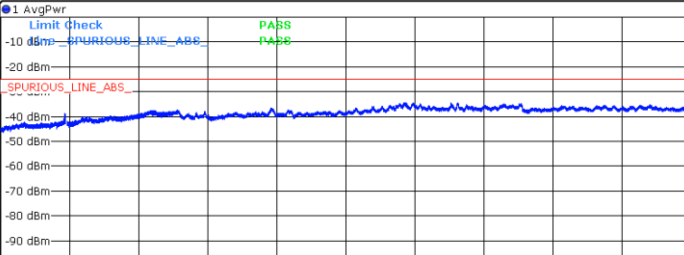


Conducted Spurious Emission

LTE Band 38 / 5MHz

Lowest Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 16.30 dB Mode Auto Sweep
SGL Count 100/100

Start 30.0 MHz 56008 pts Stop 27.0 GHz

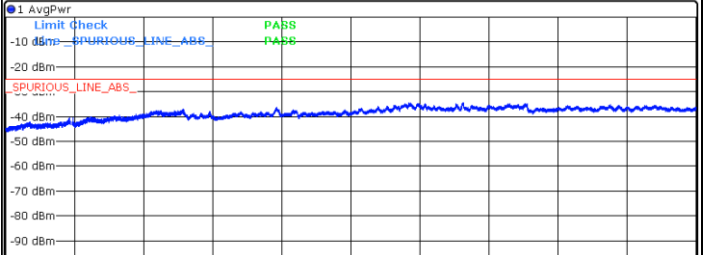
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.13243 MHz	-42.25 dBm	-17.25 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.52153 GHz	-38.79 dBm	-13.79 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.93226 GHz	-41.43 dBm	-16.43 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94126 GHz	-37.45 dBm	-12.45 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.99758 GHz	-37.85 dBm	-12.85 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.58818 GHz	-36.57 dBm	-11.57 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60890 GHz	-34.40 dBm	-9.40 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.34062 GHz	-34.73 dBm	-9.73 dB

Date: 21.JUN.2021 16:39:59

Middle Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 16.30 dB Mode Auto Sweep
SGL Count 100/100

Start 30.0 MHz 56008 pts Stop 27.0 GHz

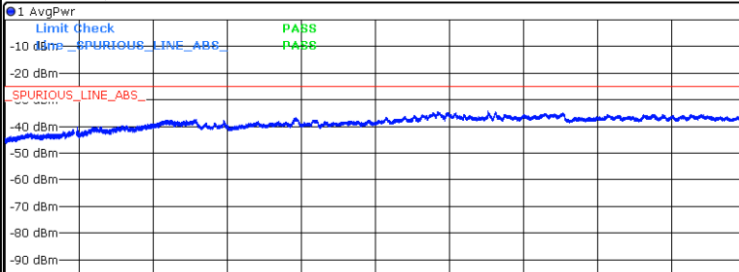
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.00750 MHz	-42.31 dBm	-17.31 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.52308 GHz	-40.65 dBm	-15.65 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.65700 GHz	-40.54 dBm	-15.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94476 GHz	-37.14 dBm	-12.14 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.99308 GHz	-37.96 dBm	-12.96 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.60017 GHz	-36.38 dBm	-11.38 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.76953 GHz	-34.58 dBm	-9.58 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39812 GHz	-34.88 dBm	-9.88 dB

Date: 21.JUN.2021 16:41:00

Highest Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 16.30 dB Mode Auto Sweep
SGL Count 100/100

Start 30.0 MHz 56008 pts Stop 27.0 GHz

Spurious Emissions

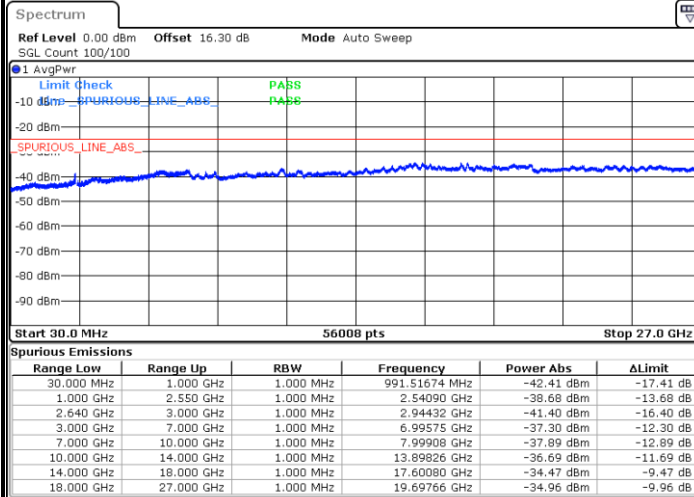
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	956.12944 MHz	-42.44 dBm	-17.44 dB
1.000 GHz	2.550 GHz	1.000 MHz	2.53431 GHz	-41.07 dBm	-16.07 dB
2.640 GHz	3.000 GHz	1.000 MHz	2.64423 GHz	-40.19 dBm	-15.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94026 GHz	-37.38 dBm	-12.38 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.98459 GHz	-37.72 dBm	-12.72 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.90026 GHz	-36.60 dBm	-11.60 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60130 GHz	-34.27 dBm	-9.27 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.33912 GHz	-34.90 dBm	-9.90 dB

Date: 21.JUN.2021 16:42:01



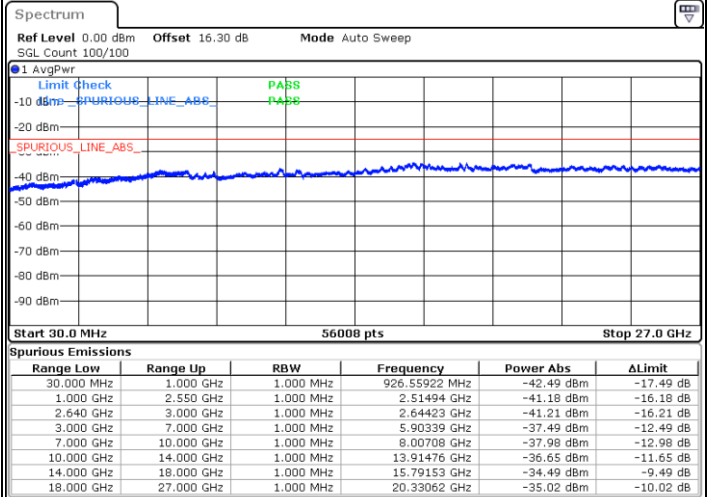
LTE Band 38 / 10MHz

Lowest Channel / QPSK



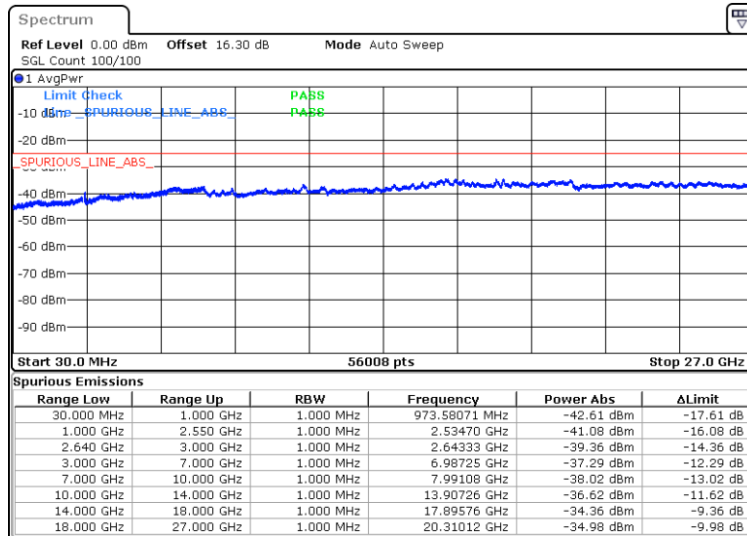
Date: 21.JUN.2021 16:43:14

Middle Channel / QPSK



Date: 21.JUN.2021 16:44:15

Highest Channel / QPSK

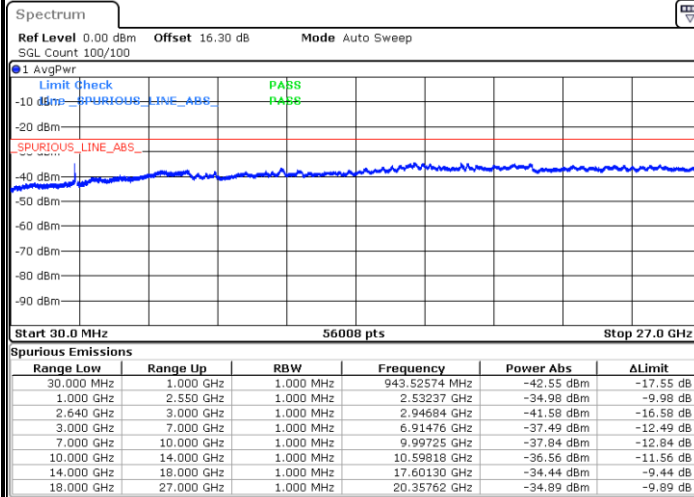


Date: 21.JUN.2021 16:45:17



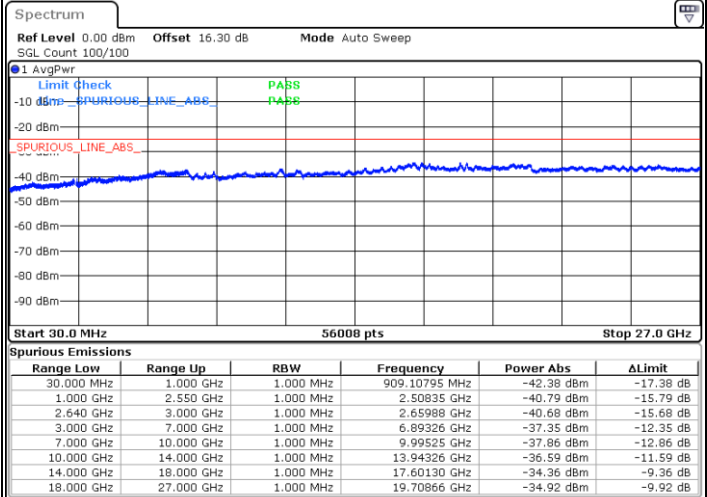
LTE Band 38 / 15MHz

Lowest Channel / QPSK



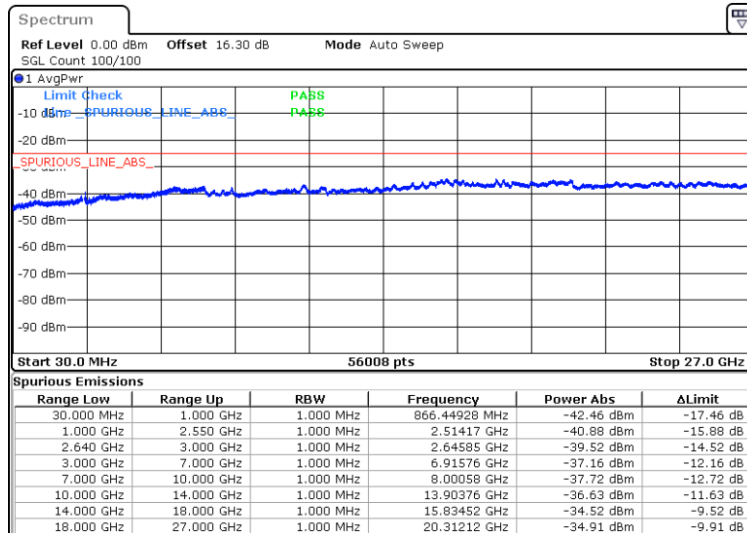
Date: 21.JUN.2021 16:46:22

Middle Channel / QPSK



Date: 21.JUN.2021 16:47:23

Highest Channel / QPSK

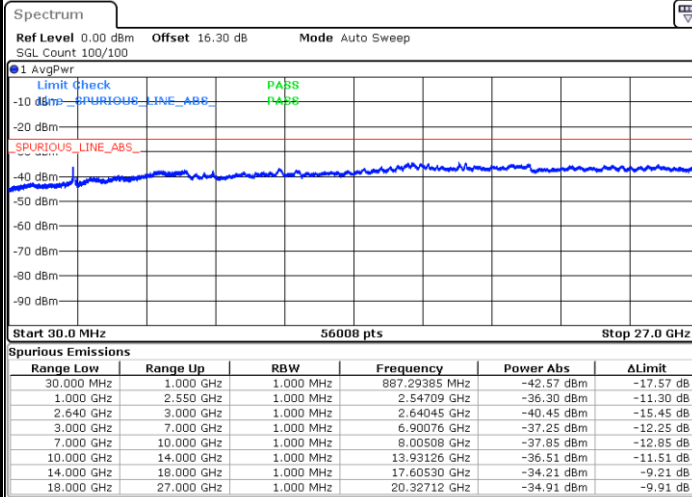


Date: 21.JUN.2021 16:48:24



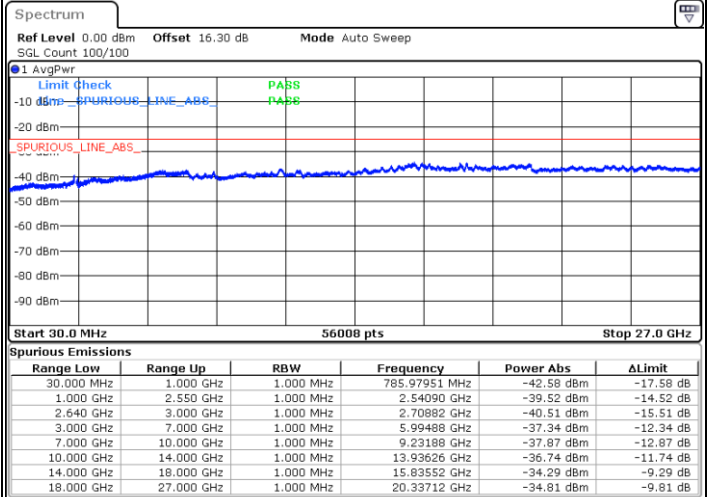
LTE Band 38 / 20MHz

Lowest Channel / QPSK



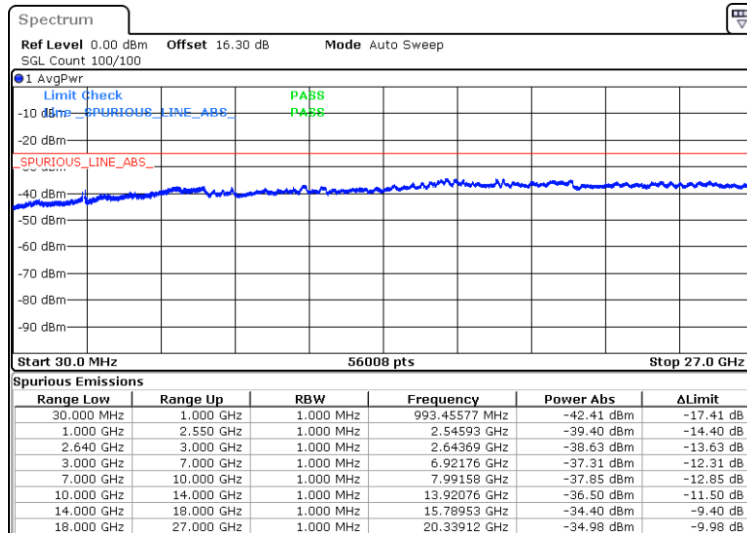
Date: 21.JUN.2021 17:28:42

Middle Channel / QPSK



Date: 21.JUN.2021 17:29:44

Highest Channel / QPSK



Date: 21.JUN.2021 17:30:44

Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0033	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0067	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0050	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0034	

Note:

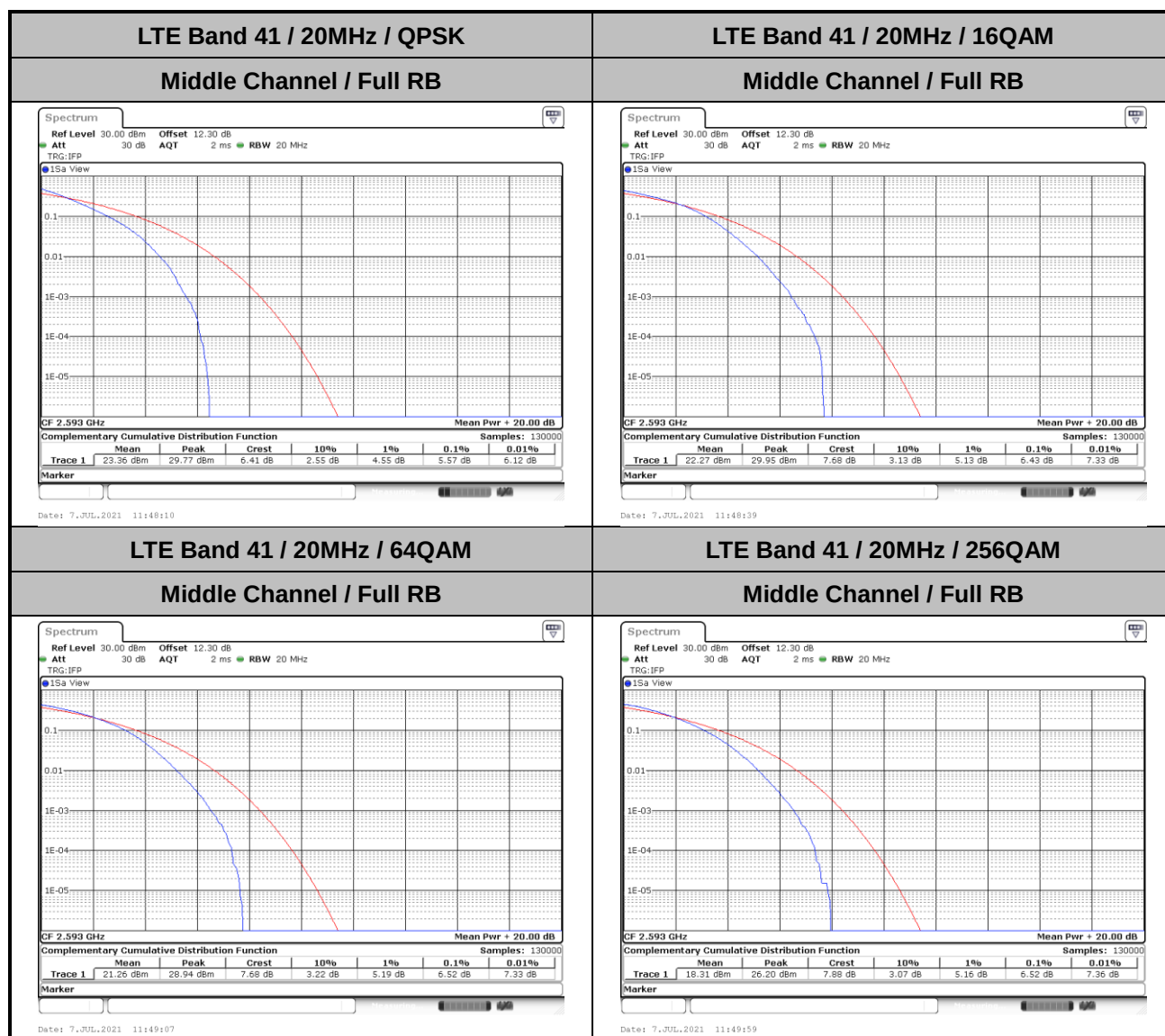
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41_HPUE

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.57	6.43	6.52	6.52	PASS



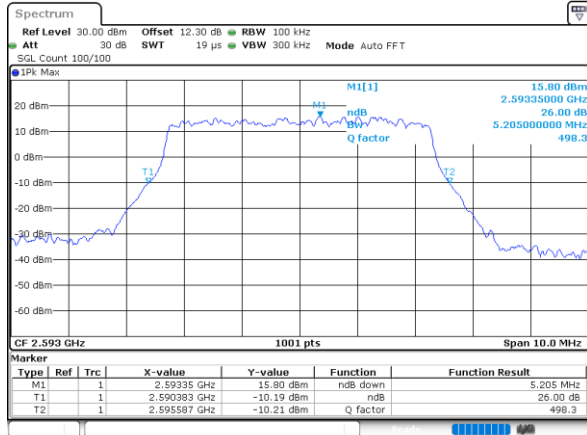
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	5.21	5.15	9.75	9.65	14.57	14.12	18.62	18.78
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.83	5.41	9.89	9.63	14.69	14.60	19.06	18.86



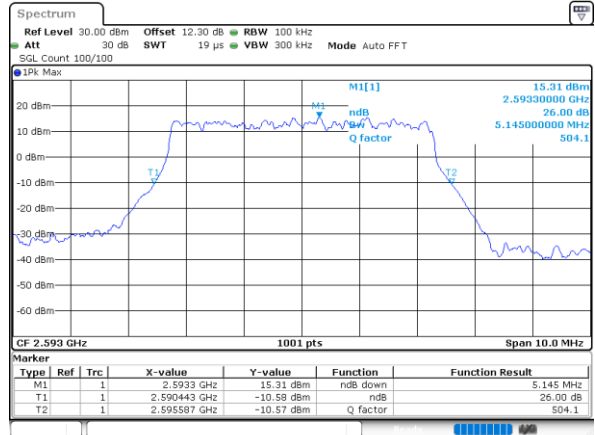
LTE Band 41

Middle Channel / 5MHz / QPSK



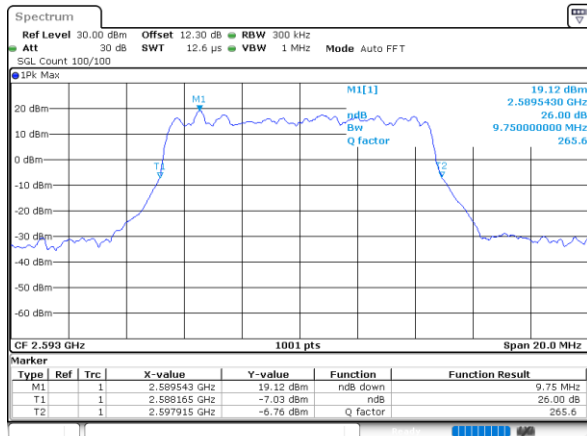
Date: 7.JUL.2021 10:35:58

Middle Channel / 5MHz / 16QAM



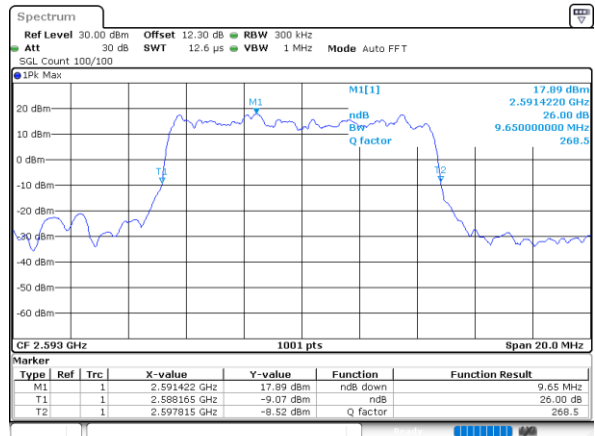
Date: 7.JUL.2021 10:36:18

Middle Channel / 10MHz / QPSK



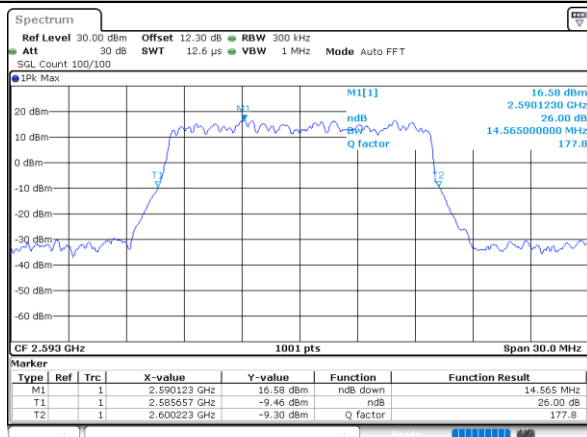
Date: 7.JUL.2021 11:38:54

Middle Channel / 10MHz / 16QAM



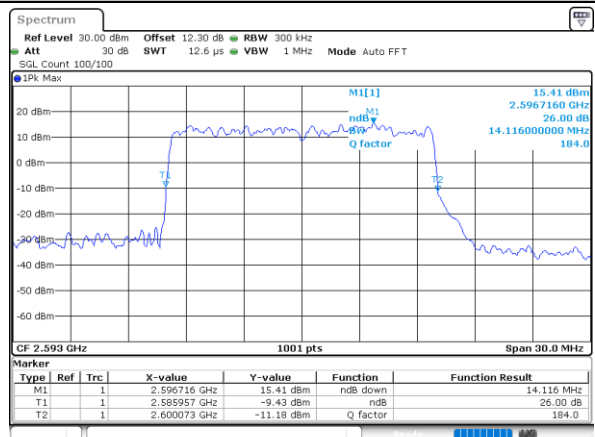
Date: 7.JUL.2021 11:39:15

Middle Channel / 15MHz / QPSK



Date: 7.JUL.2021 11:41:09

Middle Channel / 15MHz / 16QAM

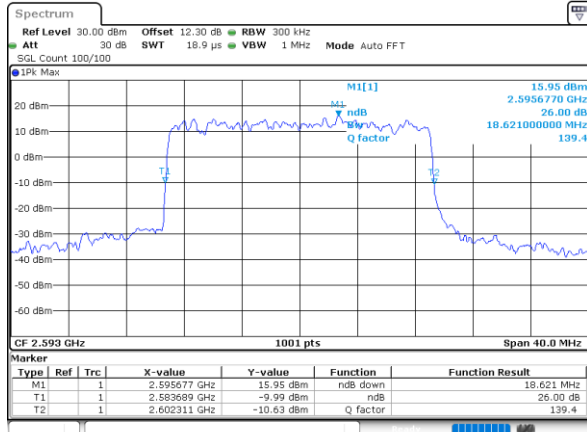


Date: 7.JUL.2021 11:41:30



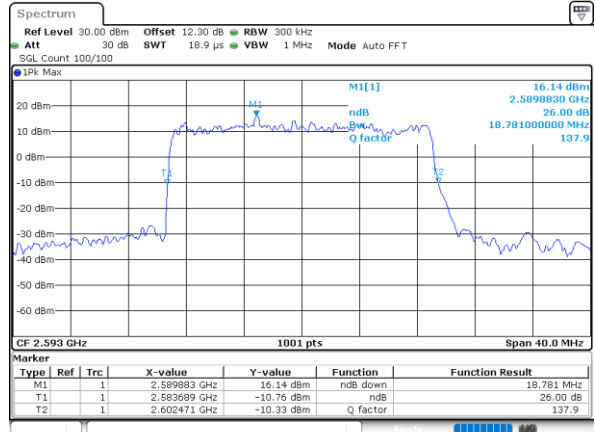
LTE Band 41

Middle Channel / 20MHz / QPSK



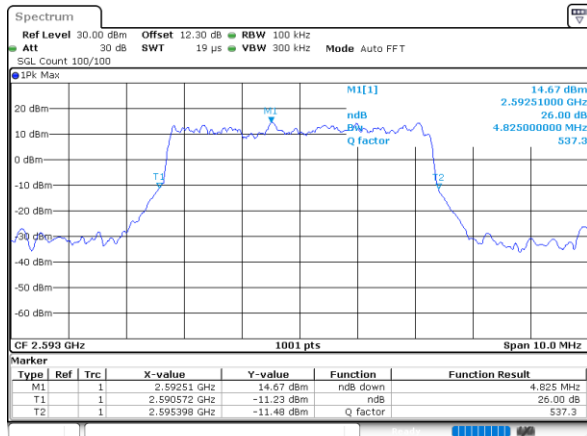
Date: 7.JUL.2021 11:42:50

Middle Channel / 20MHz / 16QAM



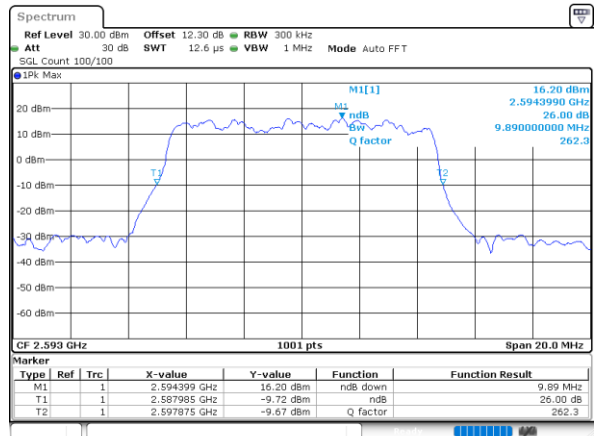
Date: 7.JUL.2021 11:43:11

Middle Channel / 5MHz / 64QAM



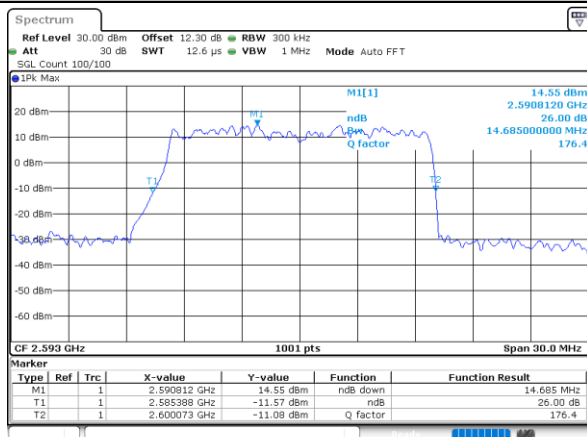
Date: 7.JUL.2021 11:44:20

Middle Channel / 10MHz / 64QAM



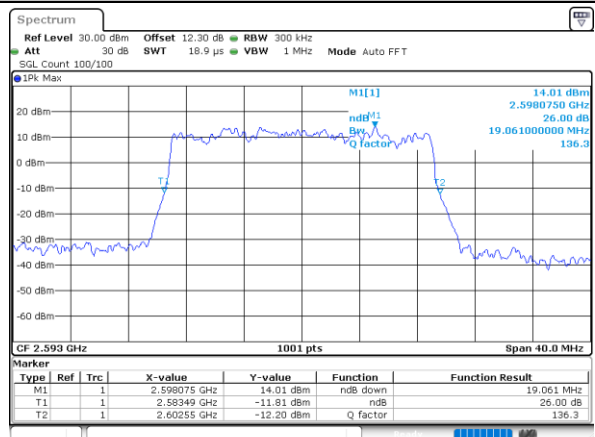
Date: 7.JUL.2021 11:45:08

Middle Channel / 15MHz / 64QAM



Date: 7.JUL.2021 11:46:10

Middle Channel / 20MHz / 64QAM

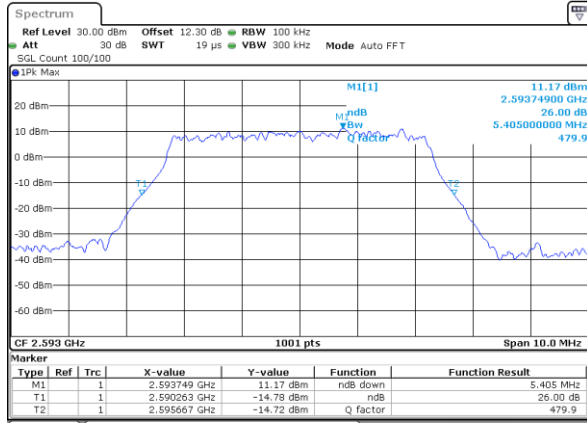


Date: 7.JUL.2021 11:46:57

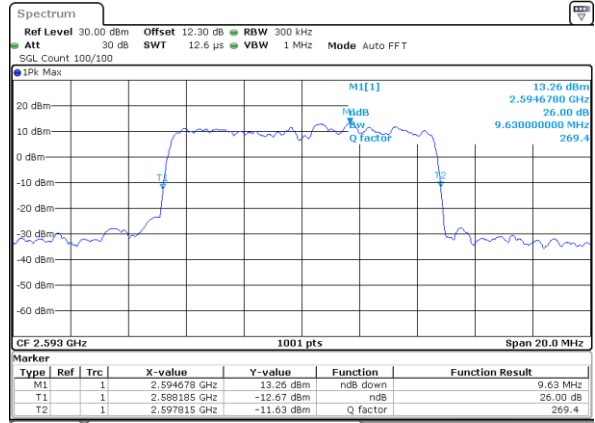


LTE Band 41

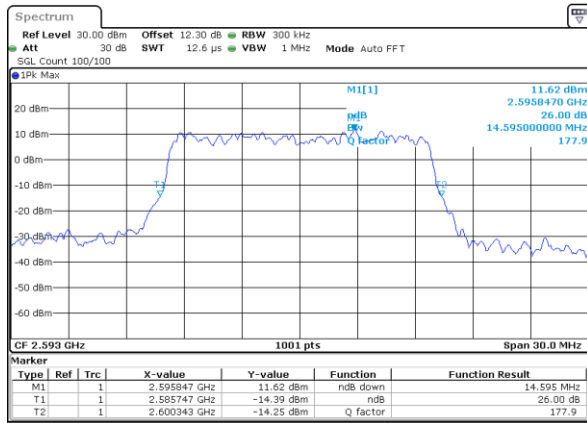
Middle Channel / 5MHz / 256QAM



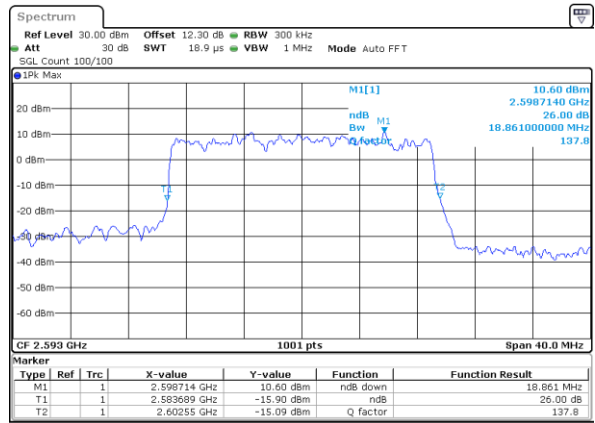
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM



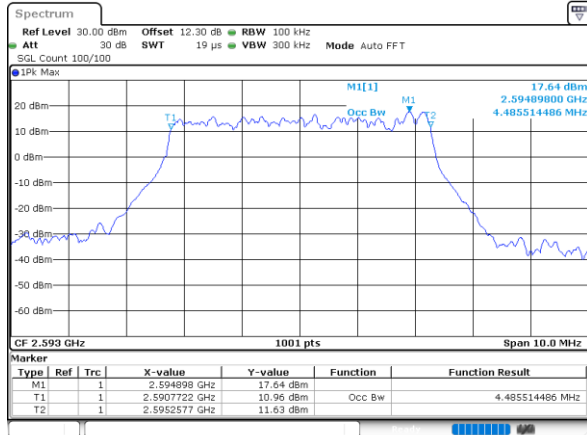
**Occupied Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.49	4.50	9.03	9.03	13.37	13.43	17.86	17.82
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.48	4.45	8.99	9.09	13.40	13.43	17.98	17.82



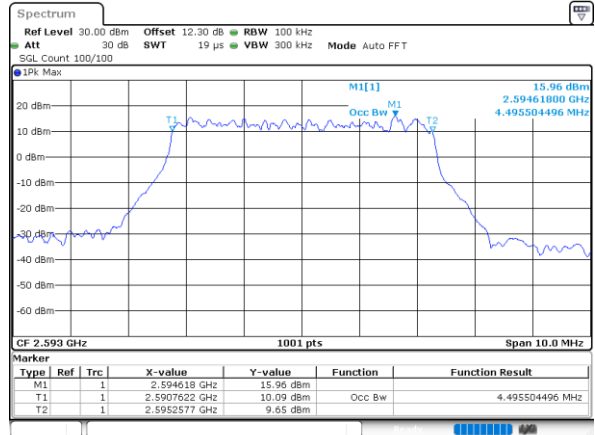
LTE Band 41

Middle Channel / 5MHz / QPSK



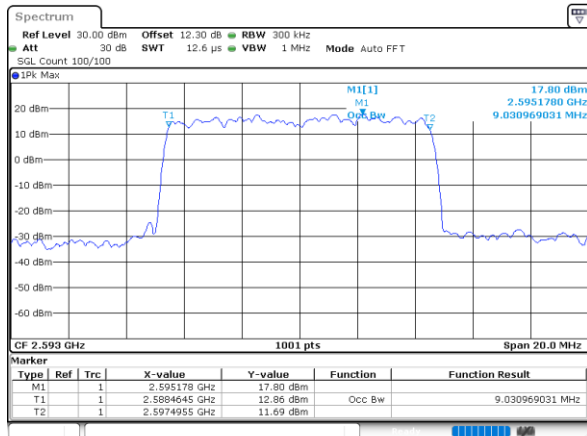
Date: 7.JUL.2021 10:35:12

Middle Channel / 5MHz / 16QAM



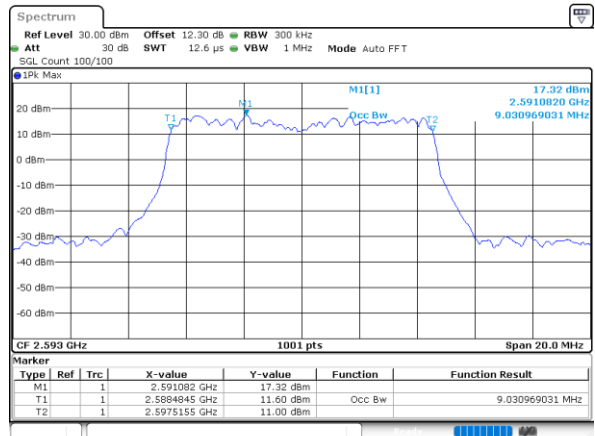
Date: 7.JUL.2021 10:35:35

Middle Channel / 10MHz / QPSK



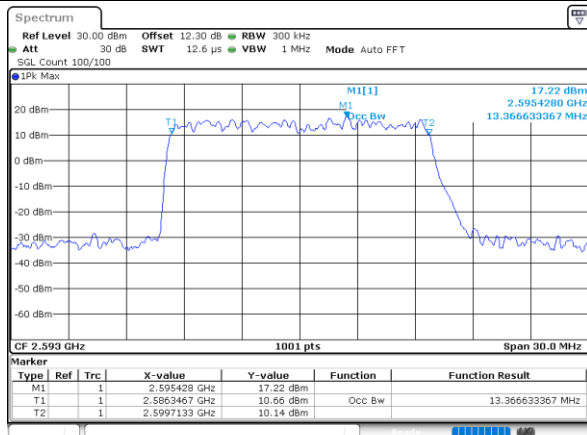
Date: 7.JUL.2021 11:38:09

Middle Channel / 10MHz / 16QAM



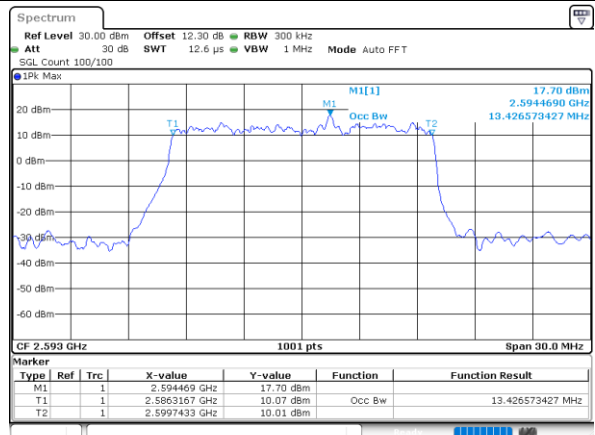
Date: 7.JUL.2021 11:38:32

Middle Channel / 15MHz / QPSK



Date: 7.JUL.2021 11:40:24

Middle Channel / 15MHz / 16QAM

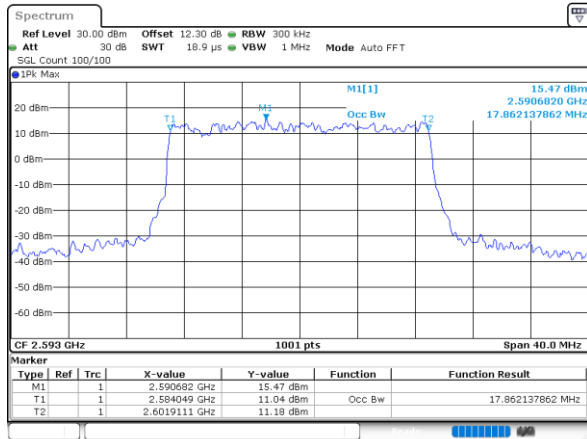


Date: 7.JUL.2021 11:40:46

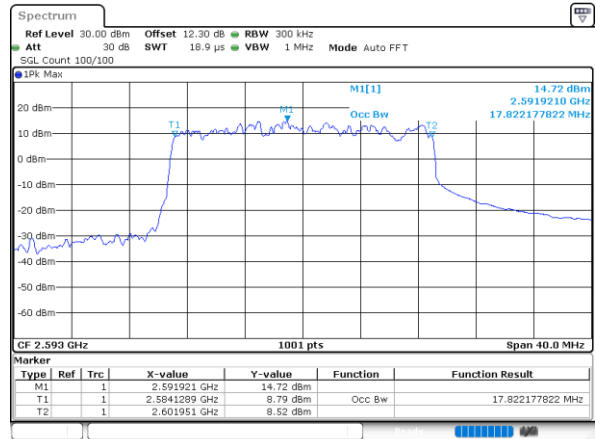


LTE Band 41

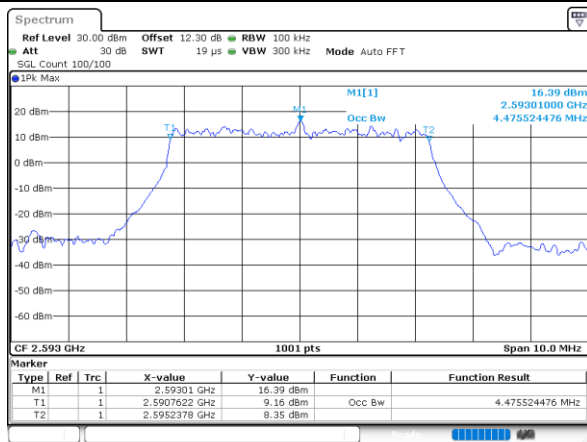
Middle Channel / 20MHz / QPSK



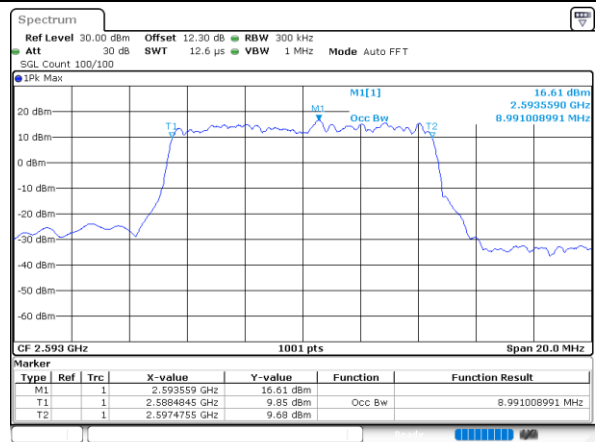
Middle Channel / 20MHz / 16QAM



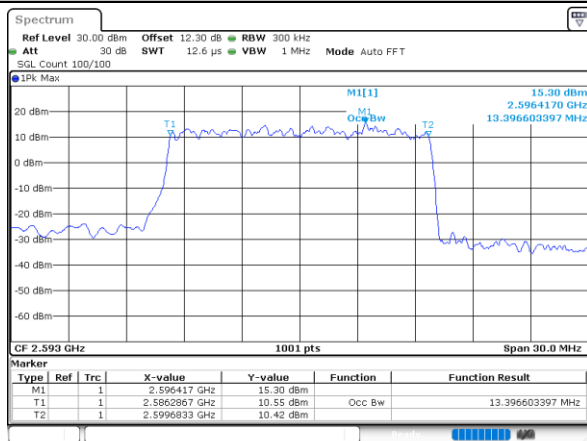
Middle Channel / 5MHz / 64QAM



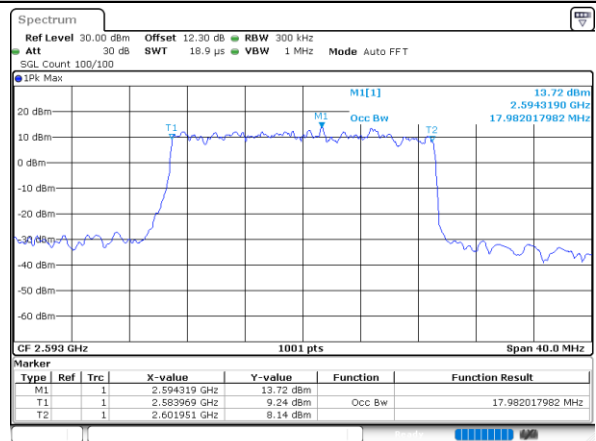
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



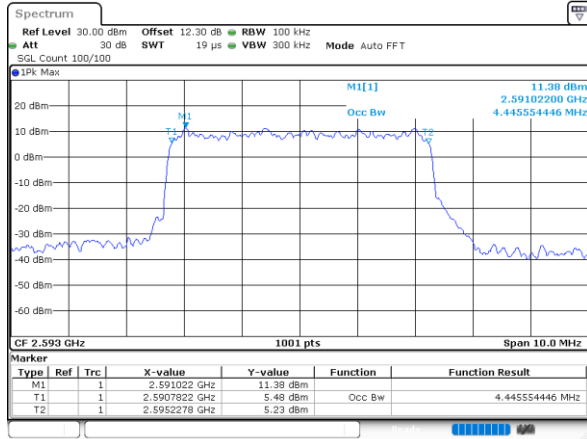
Middle Channel / 20MHz / 64QAM



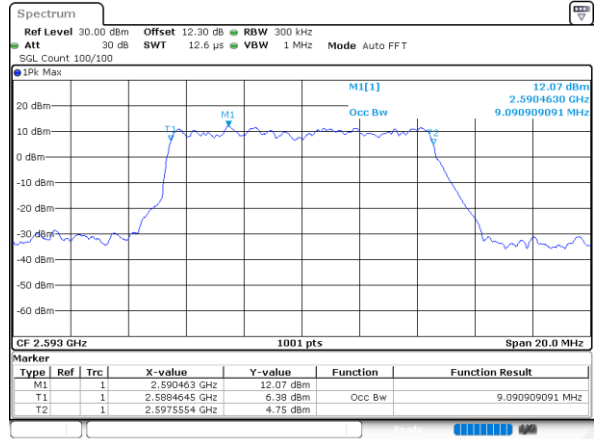


LTE Band 41

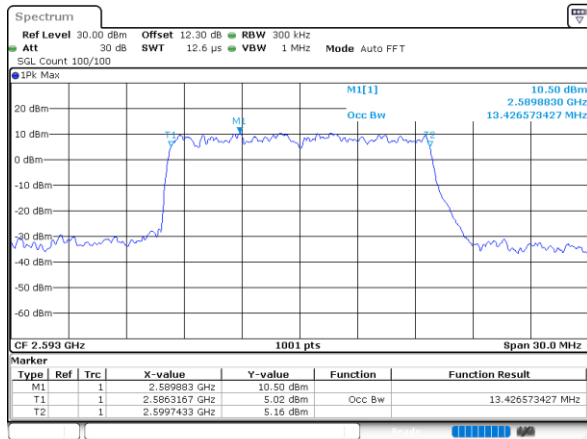
Middle Channel / 5MHz / 256QAM



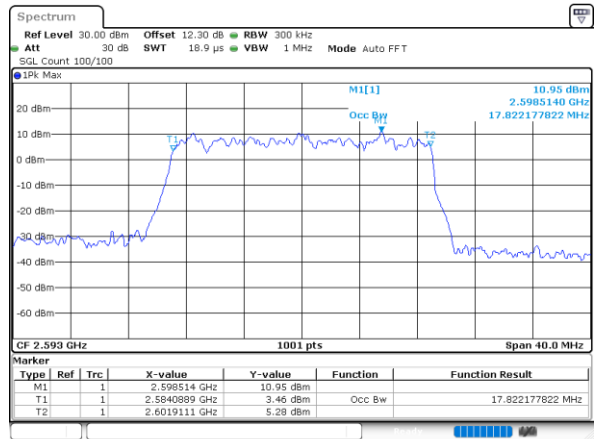
Middle Channel / 10MHz / 256QAM

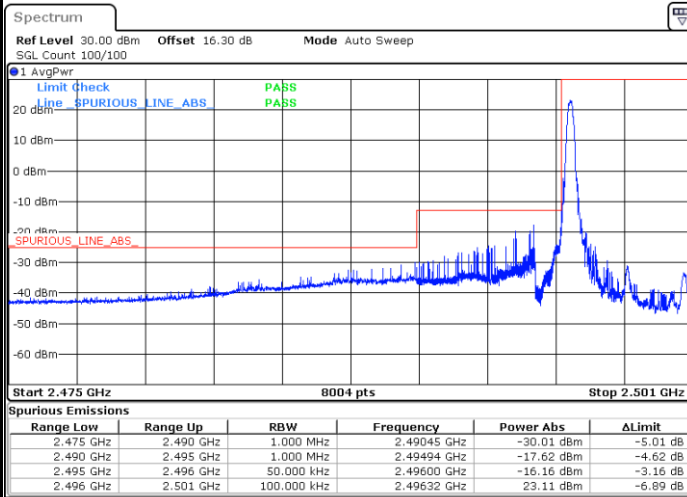


Middle Channel / 15MHz / 256QAM

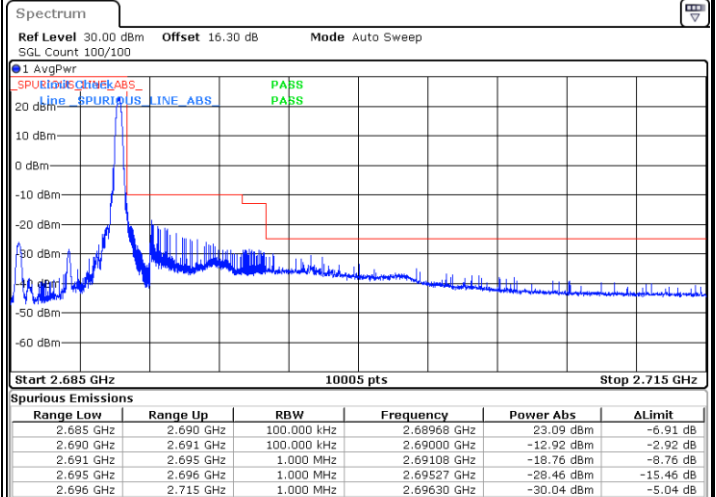


Middle Channel / 20MHz / 256QAM

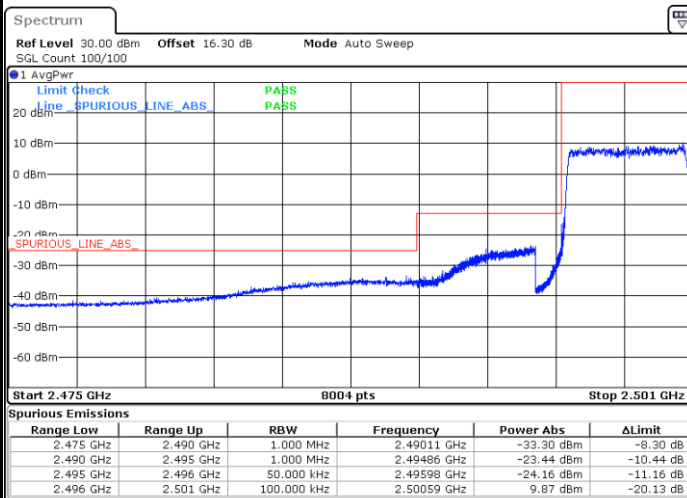


**Conducted Band Edge****LTE Band 41 / 5MHz / QPSK****Lowest Band Edge / 1 RB**

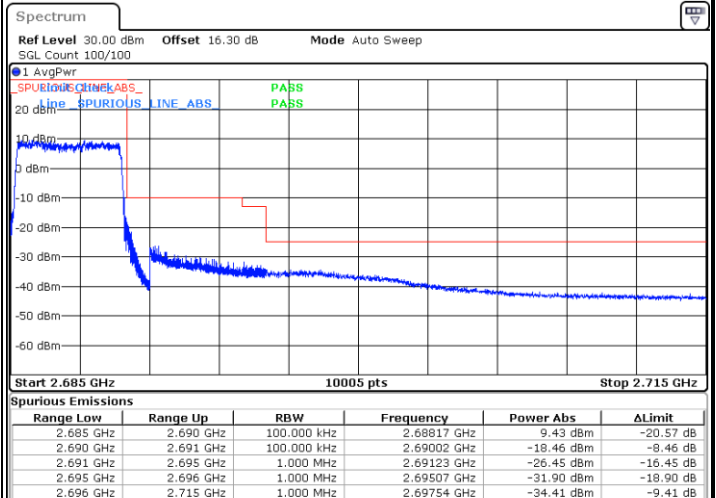
Date: 7.JUL.2021 09:59:10

Highest Band Edge / 1 RB

Date: 7.JUL.2021 20:01:13

Lowest Band Edge / Full RB

Date: 7.JUL.2021 19:56:40

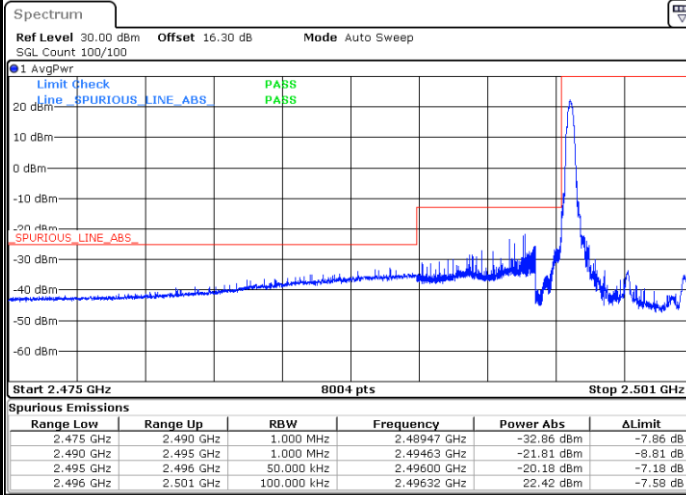
Highest Band Edge / Full RB

Date: 7.JUL.2021 20:00:07



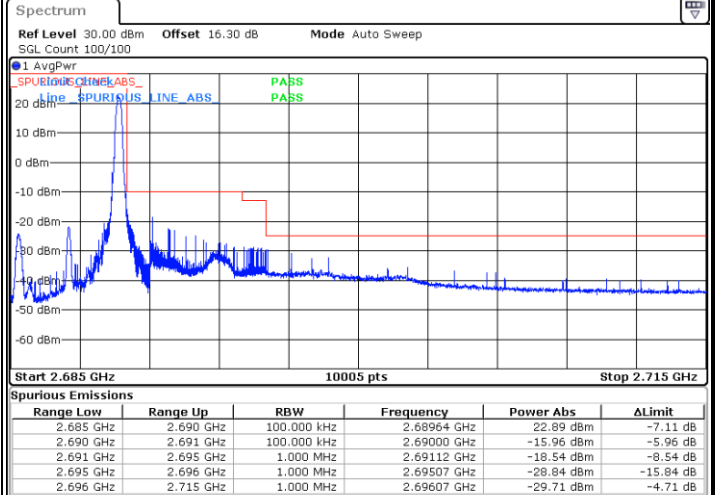
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



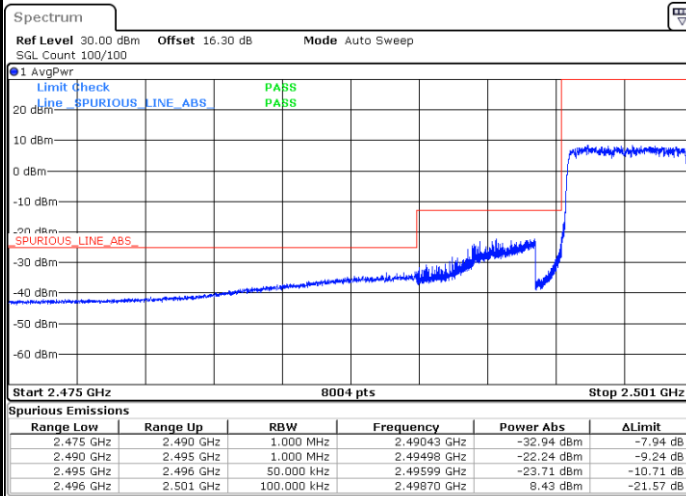
Date: 7.JUL.2021 09:59:42

Highest Band Edge / 1 RB



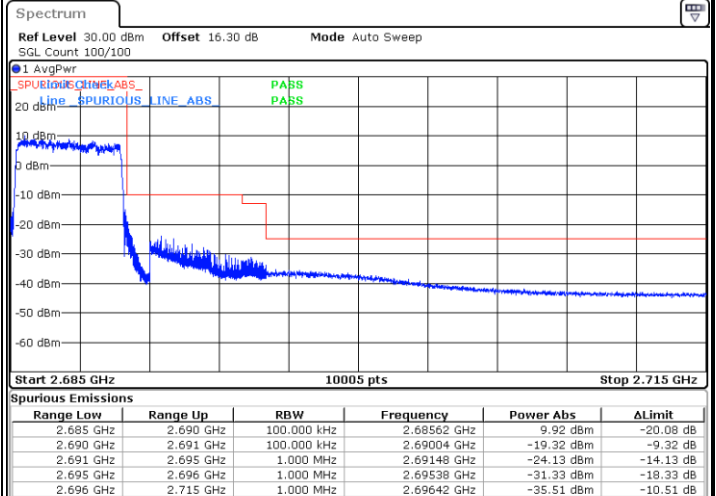
Date: 7.JUL.2021 10:01:38

Lowest Band Edge / Full RB



Date: 7.JUL.2021 10:00:44

Highest Band Edge / Full RB



Date: 7.JUL.2021 10:02:32