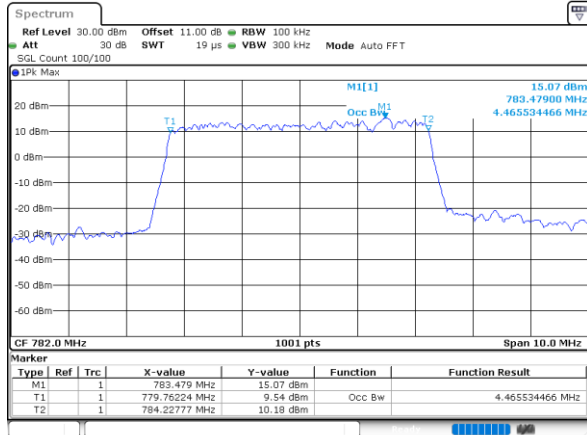




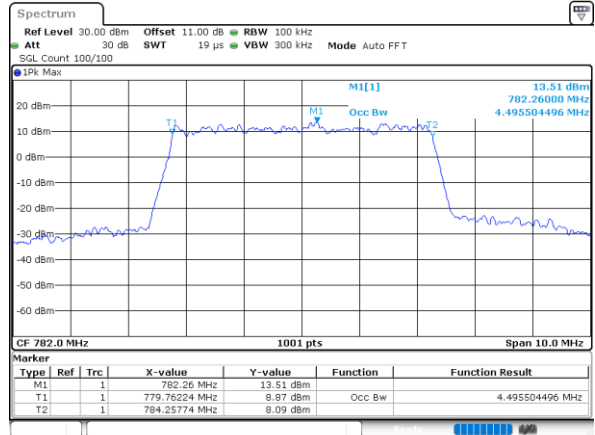
LTE Band 13

Middle Channel / 5MHz / QPSK



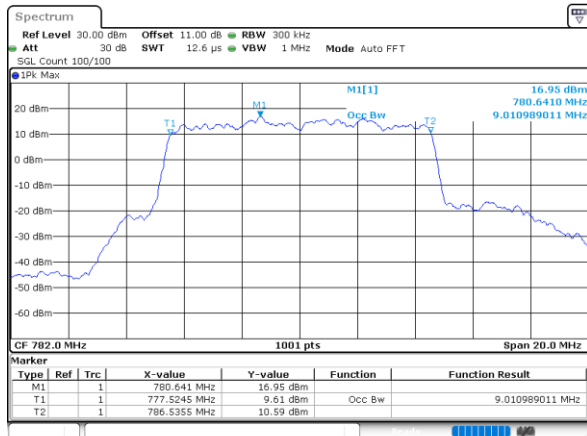
Date: 27 JUN 2021 09:20:13

Middle Channel / 5MHz / 16QAM



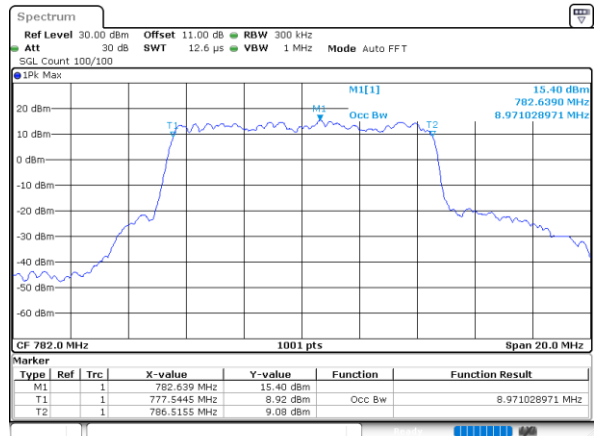
Date: 27 JUN 2021 09:20:08

Middle Channel / 10MHz / QPSK



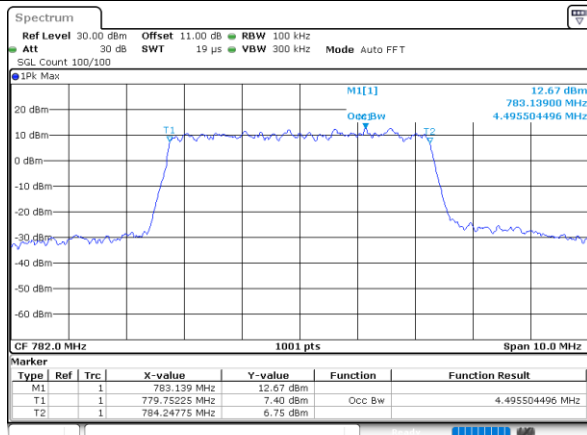
Date: 27 JUN 2021 09:36:56

Middle Channel / 10MHz / 16QAM



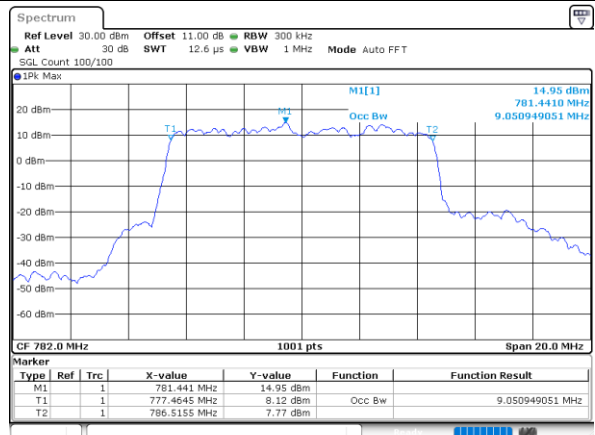
Date: 27 JUN 2021 09:37:19

Middle Channel / 5MHz / 64QAM



Date: 27 JUN 2021 09:32:52

Middle Channel / 10MHz / 64QAM



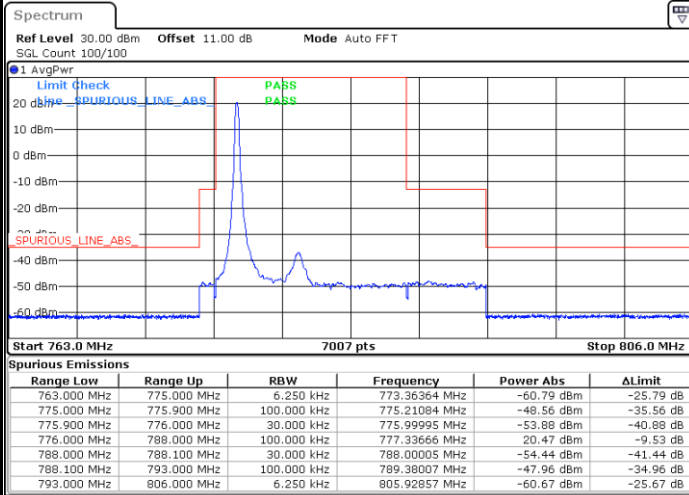
Date: 27 JUN 2021 09:49:56



Conducted Band Edge

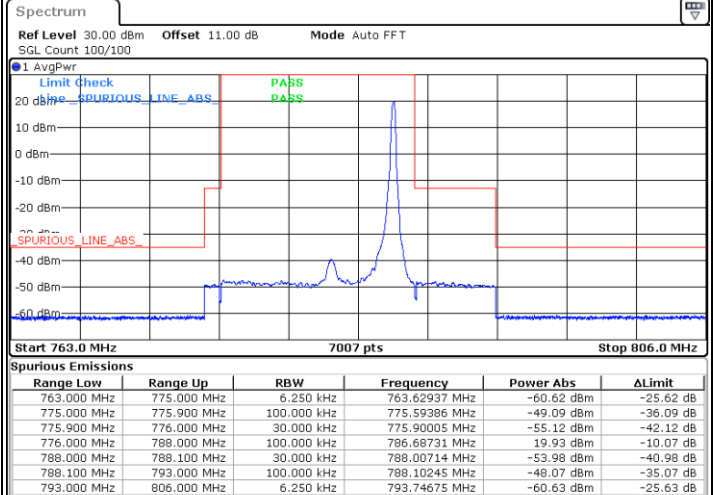
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



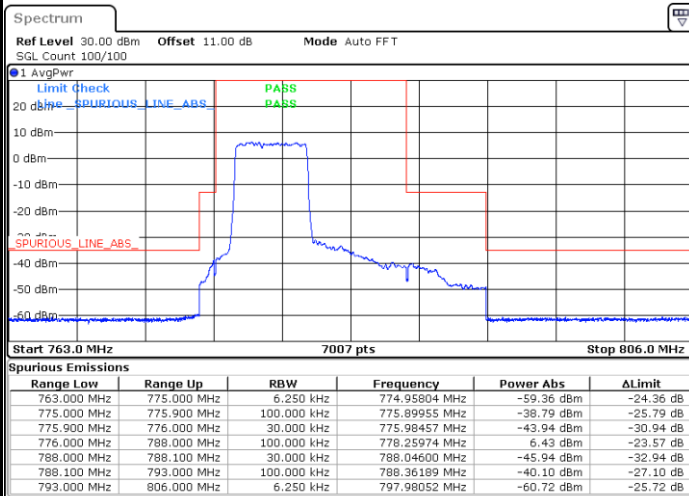
Date: 27.JUN.2021 09:17:56

Highest Band Edge / 1 RB



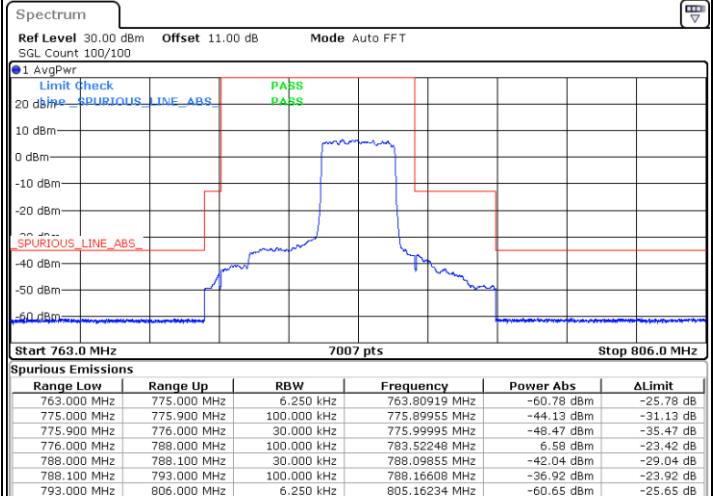
Date: 27.JUN.2021 09:27:54

Lowest Band Edge / Full RB



Date: 27.JUN.2021 09:12:24

Highest Band Edge / Full RB

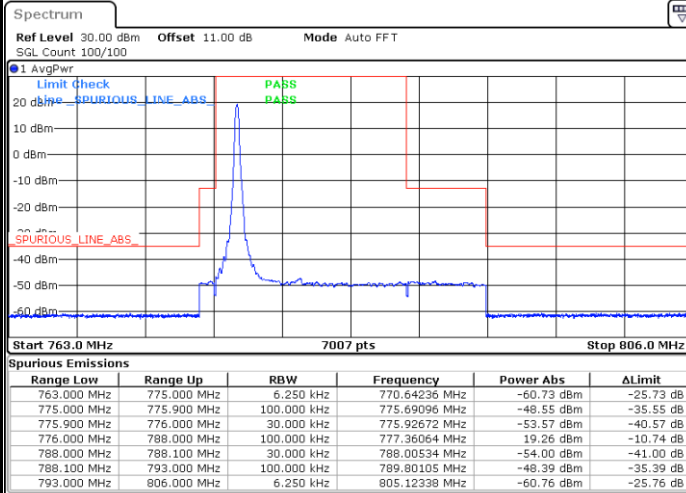


Date: 27.JUN.2021 09:22:22



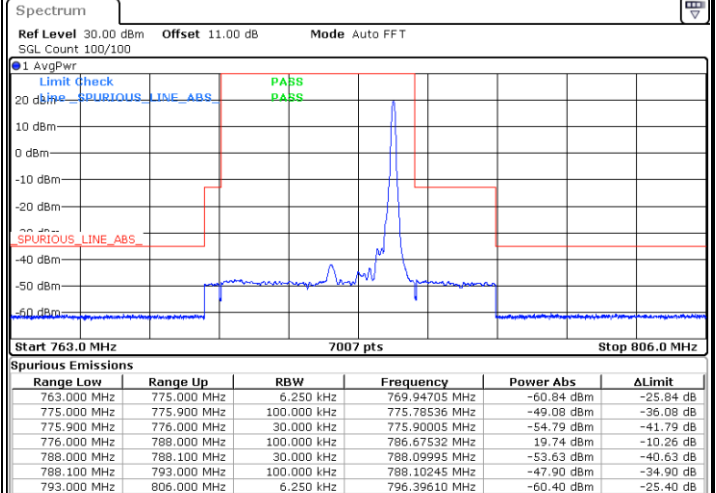
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



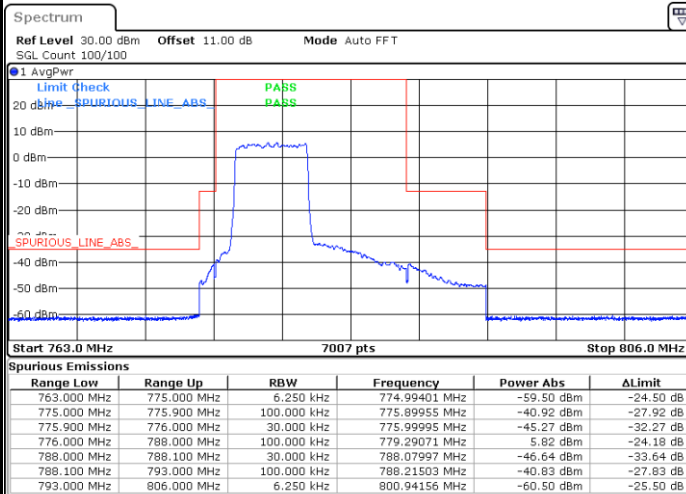
Date: 27.JUN.2021 09:16:06

Highest Band Edge / 1 RB



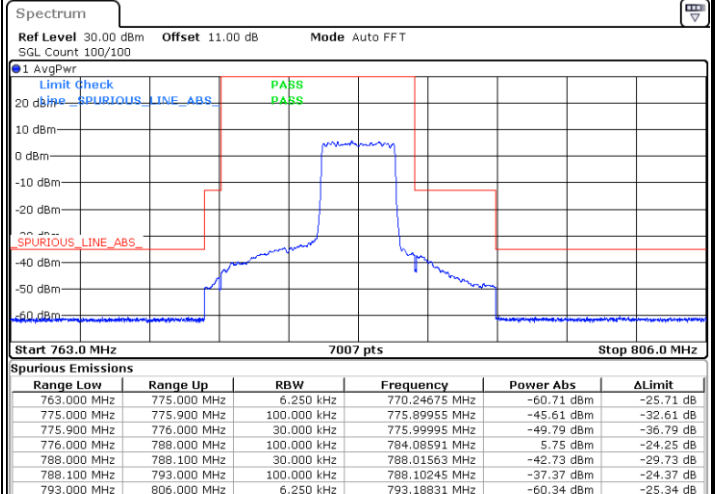
Date: 27.JUN.2021 09:26:04

Lowest Band Edge / Full RB



Date: 27.JUN.2021 09:14:15

Highest Band Edge / Full RB

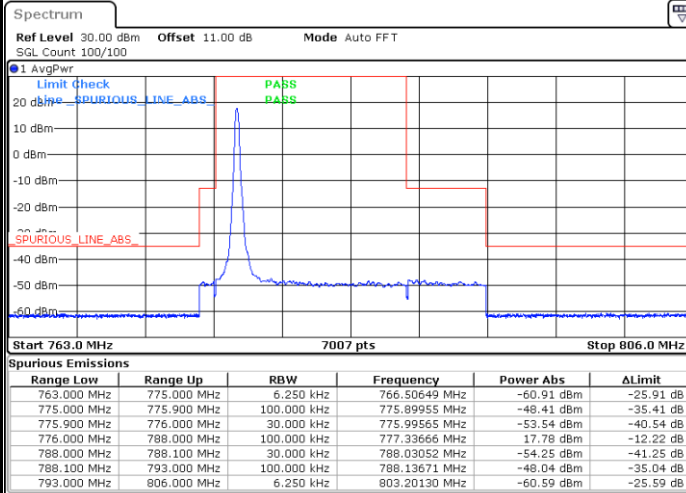


Date: 27.JUN.2021 09:24:13



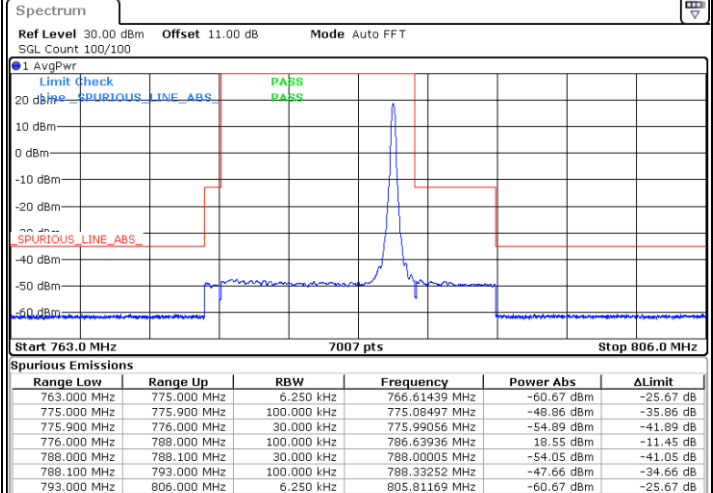
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



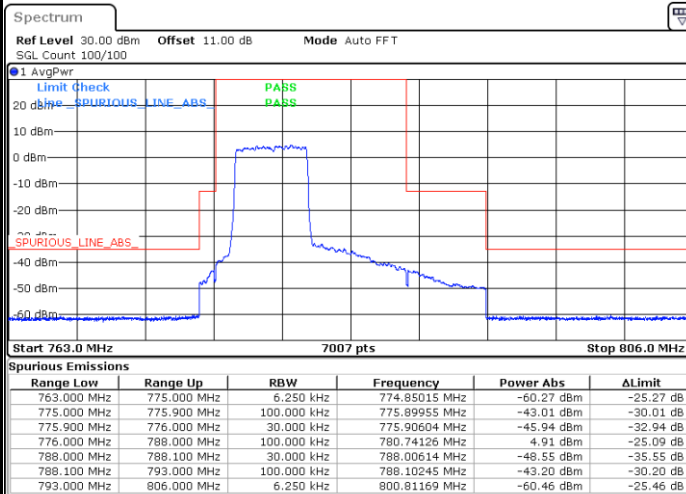
Date: 27.JUN.2021 09:32:10

Highest Band Edge / 1 RB



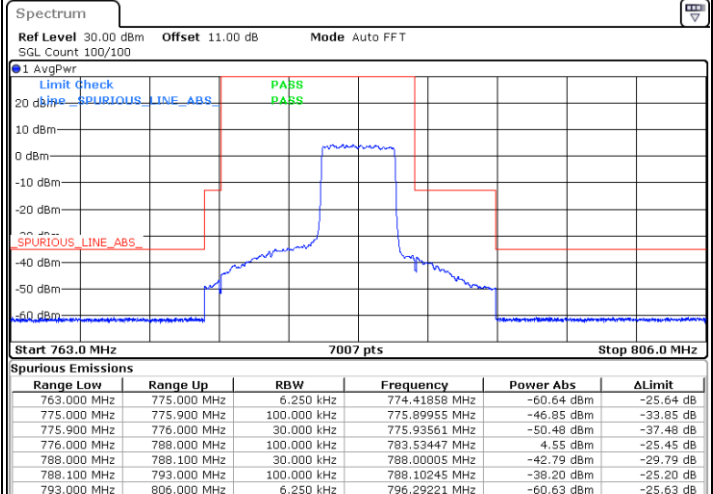
Date: 27.JUN.2021 09:36:34

Lowest Band Edge / Full RB



Date: 27.JUN.2021 09:30:20

Highest Band Edge / Full RB

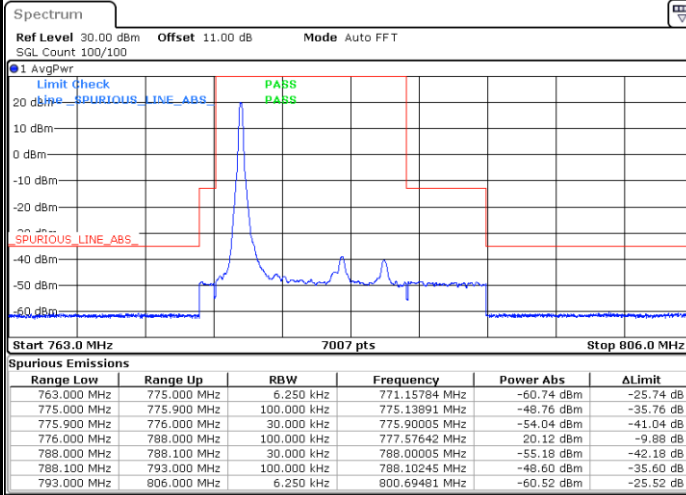


Date: 27.JUN.2021 09:34:44

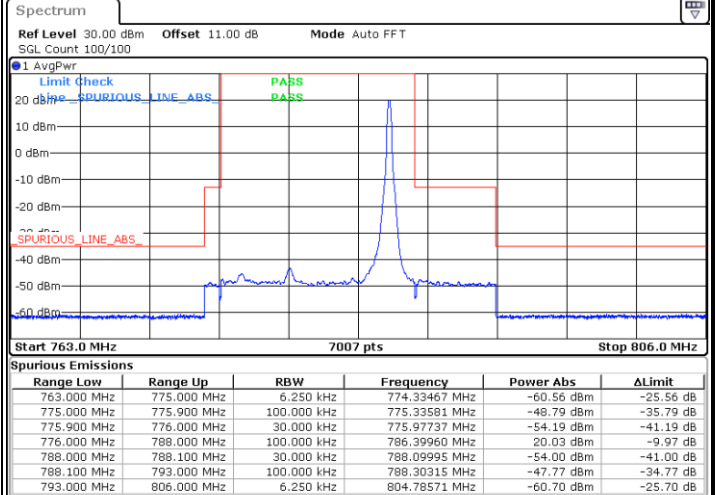


LTE Band 13 / 10MHz / QPSK

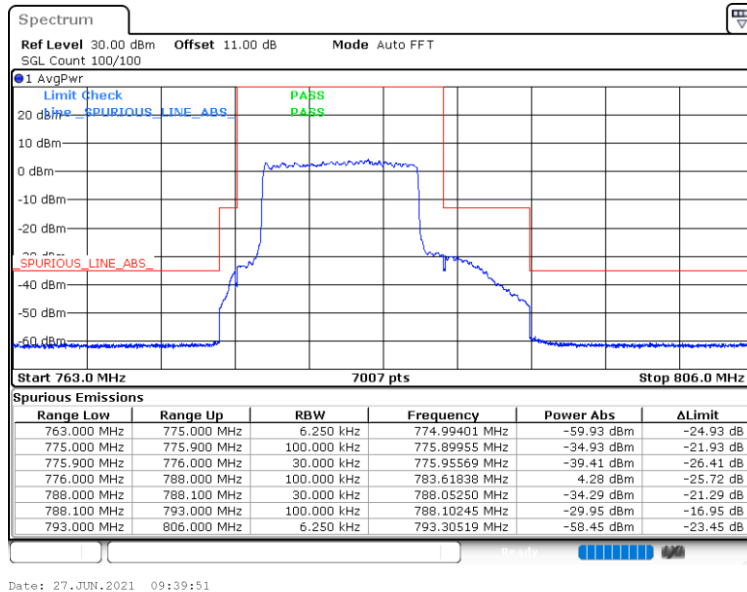
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



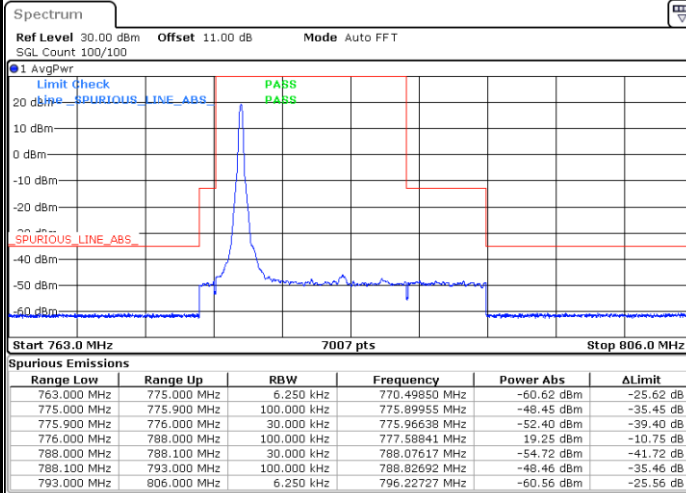
Band Edge / Full RB



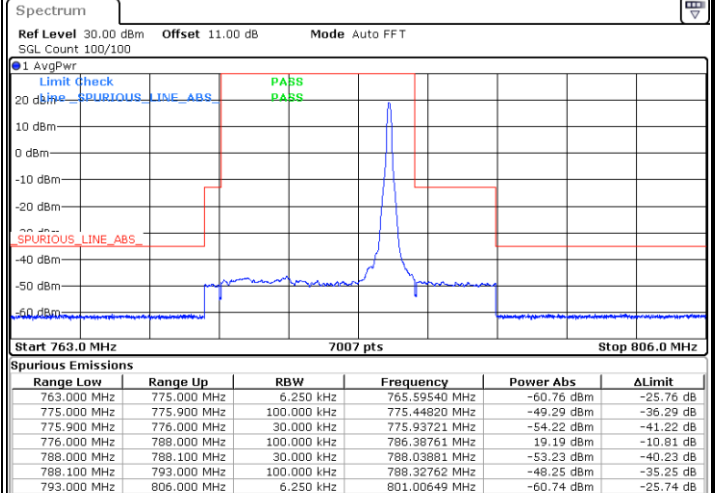


LTE Band 13 / 10MHz / 16QAM

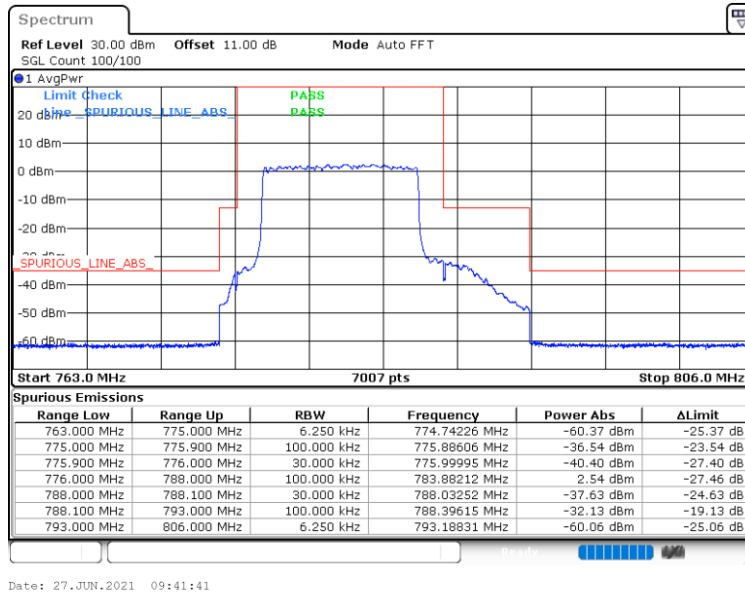
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



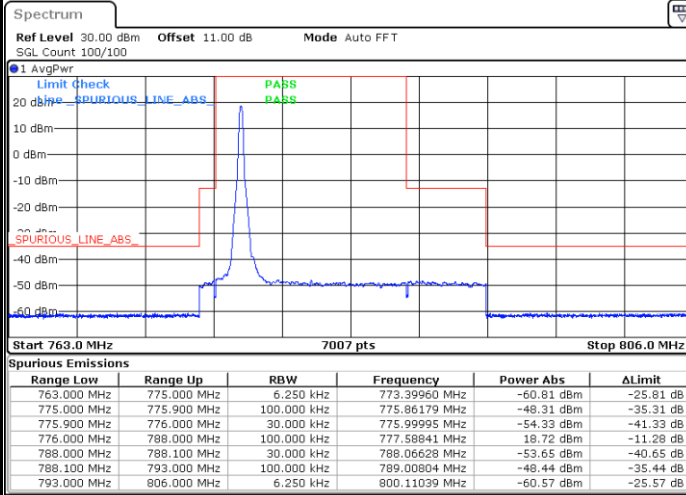
Band Edge / Full RB



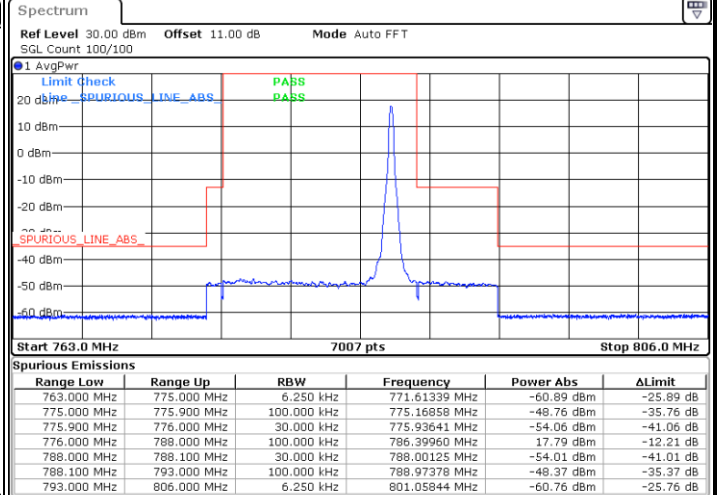


LTE Band 13 / 10MHz / 64QAM

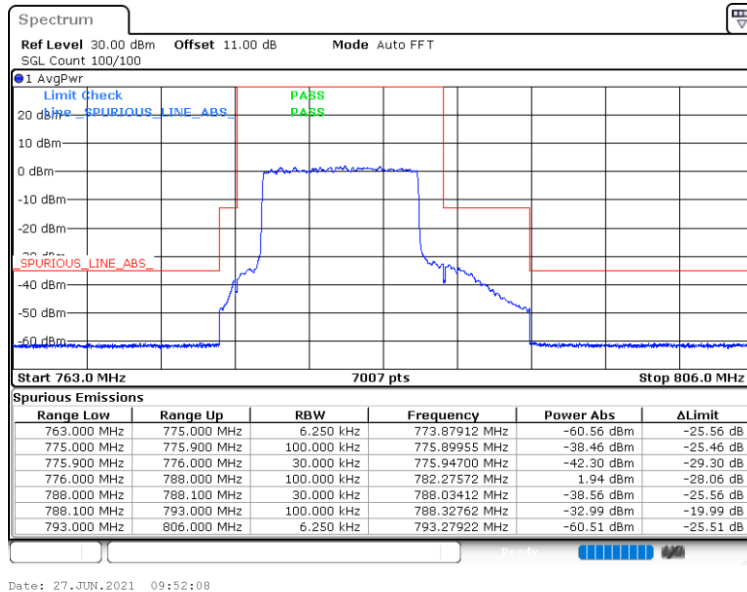
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

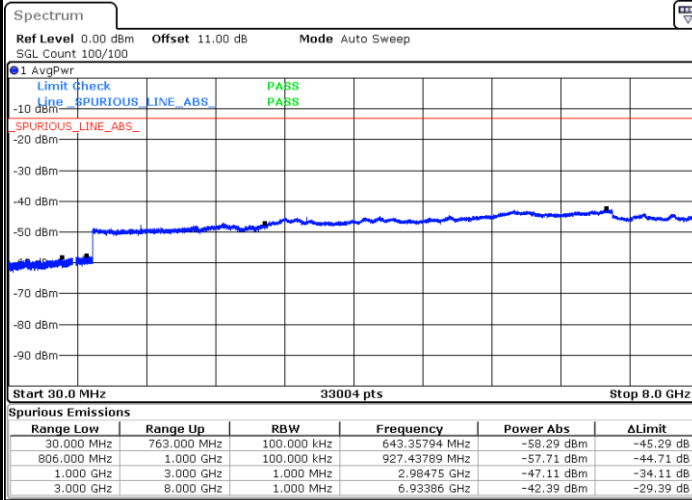




Conducted Spurious Emission

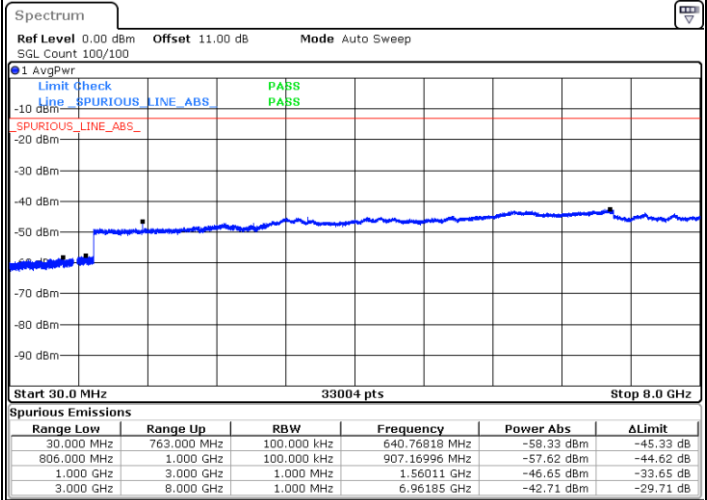
LTE Band 13 / 5MHz

Lowest Channel / QPSK



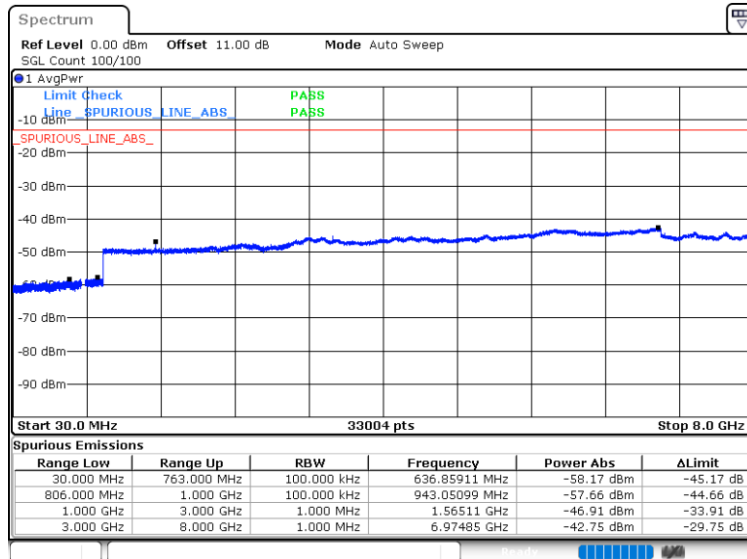
Date: 27.JUN.2021 09:18:31

Middle Channel / QPSK



Date: 27.JUN.2021 09:19:06

Highest Channel / QPSK

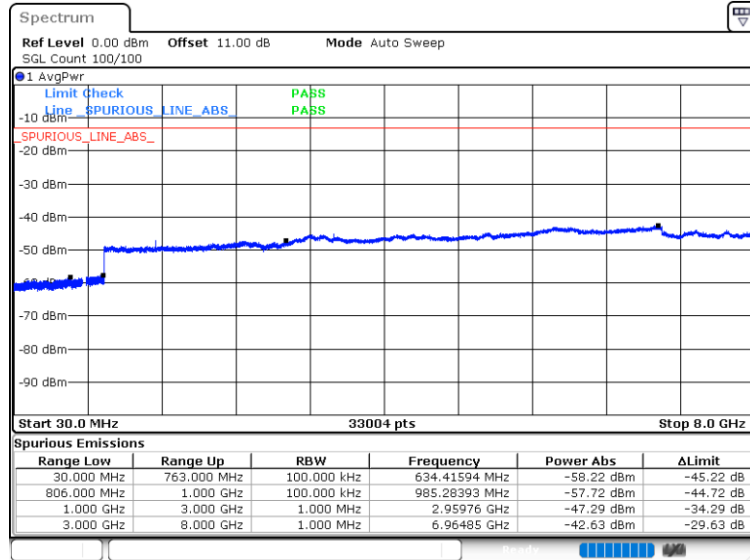


Date: 27.JUN.2021 09:28:29



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 27.JUN.2021 09:49:35

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0110	PASS
40	Normal Voltage	0.0111	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0110	
0	Normal Voltage	0.0128	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0137	
-30	Normal Voltage	0.0166	
20	Maximum Voltage	0.0110	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

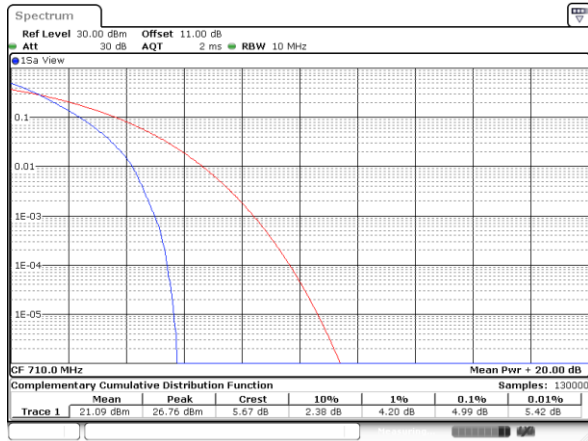
**LTE Band 17****Peak-to-Average Ratio**

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.99	5.86	6.52	-	PASS



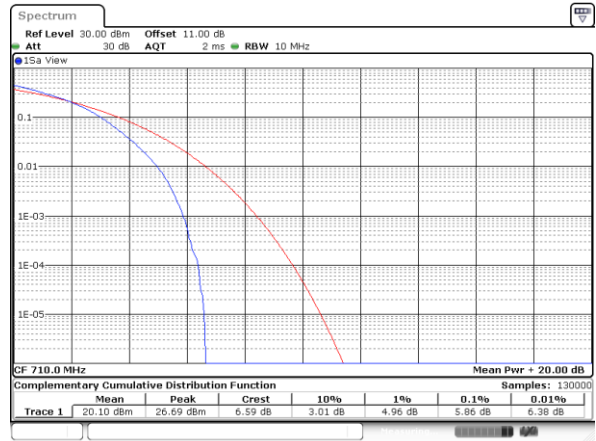
LTE Band 17 / 10MHz / QPSK

Middle Channel / Full RB



LTE Band 17 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 17 / 10MHz / 64QAM

Middle Channel / Full RB



LTE Band 17 / 10MHz / 256QAM

Middle Channel / Full RB

-

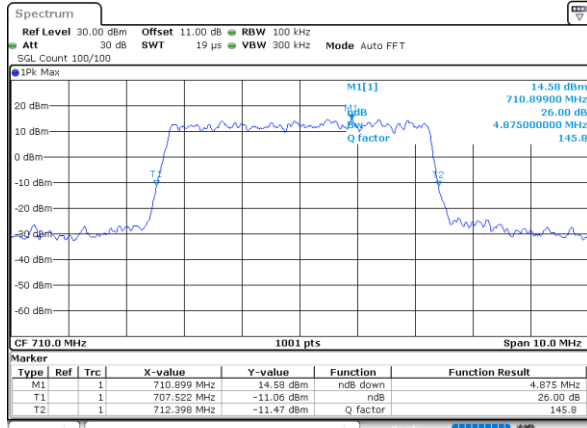
**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.88	4.81	9.75	9.79	-	-	-	-
Mode	LTE Band 17 : 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	-	-	-	-	4.92	-	9.75	-	-	-	-	-



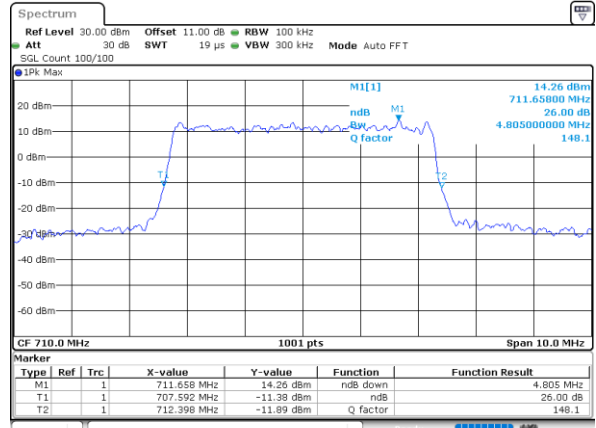
LTE Band 17

Middle Channel / 5MHz / QPSK



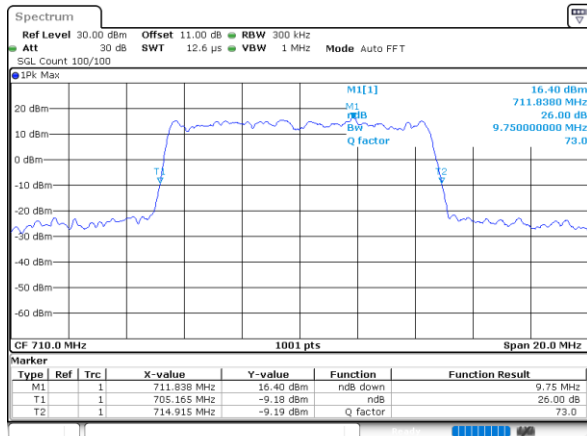
Date: 27 JUN 2021 10:08:16

Middle Channel / 5MHz / 16QAM



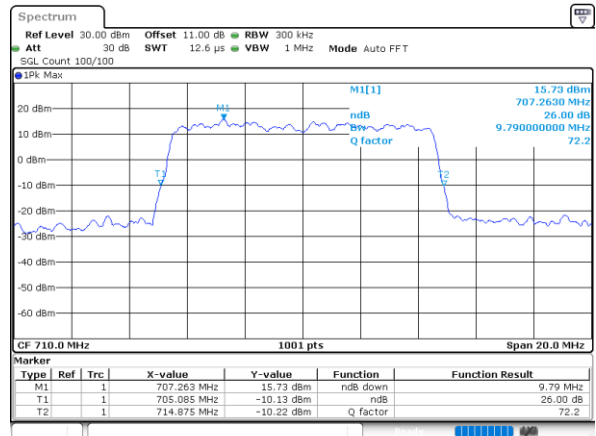
Date: 27 JUN 2021 10:08:37

Middle Channel / 10MHz / QPSK



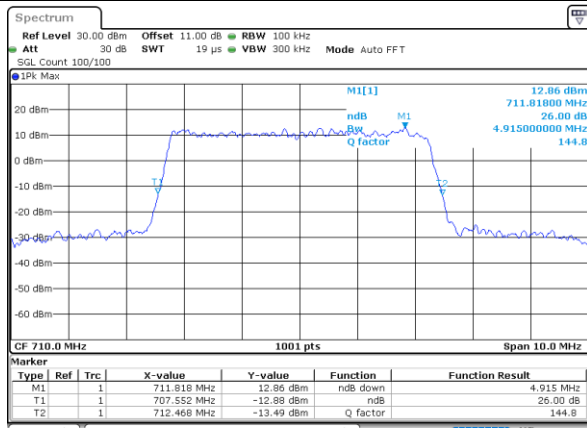
Date: 27 JUN 2021 10:18:55

Middle Channel / 10MHz / 16QAM



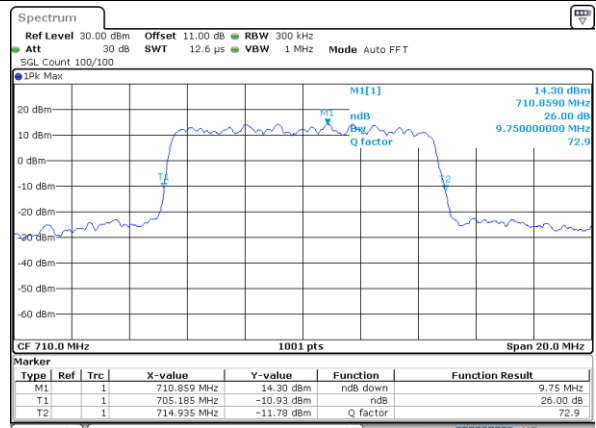
Date: 27 JUN 2021 10:19:16

Middle Channel / 5MHz / 64QAM



Date: 27 JUN 2021 10:26:43

Middle Channel / 10MHz / 64QAM



Date: 27 JUN 2021 10:31:09

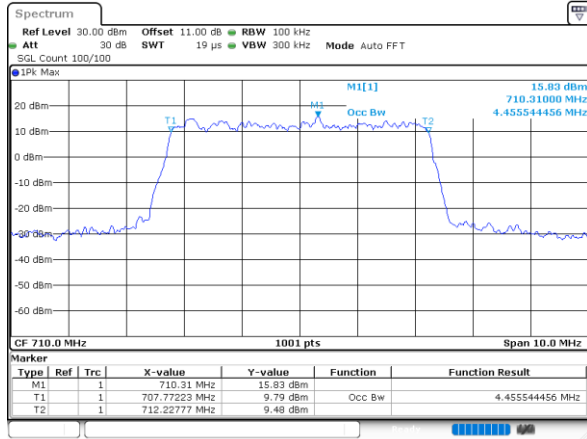
**Occupied Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.46	4.49	8.97	9.03	-	-	-	-
Mode	LTE Band 17 : 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	-	-	-	-	4.51	-	8.97	-	-	-	-	-

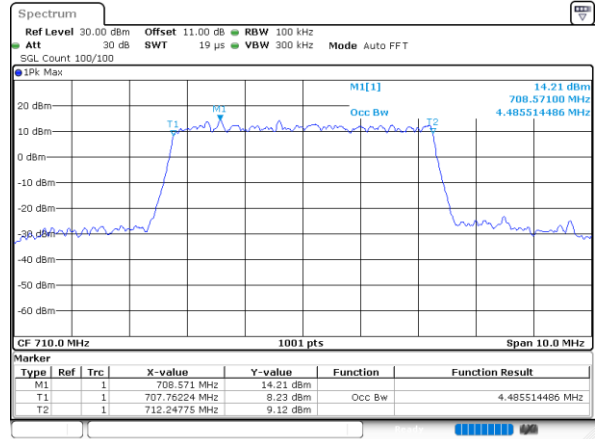


LTE Band 17

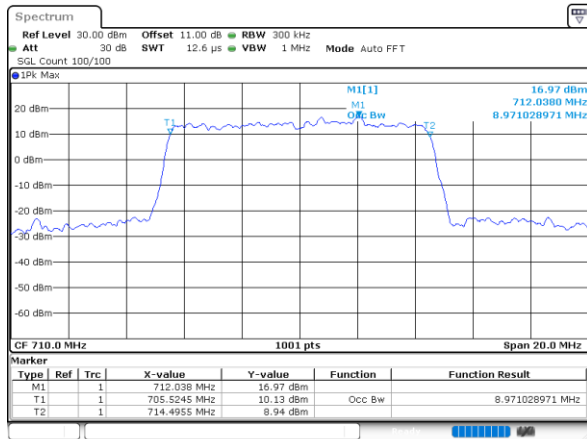
Middle Channel / 5MHz / QPSK



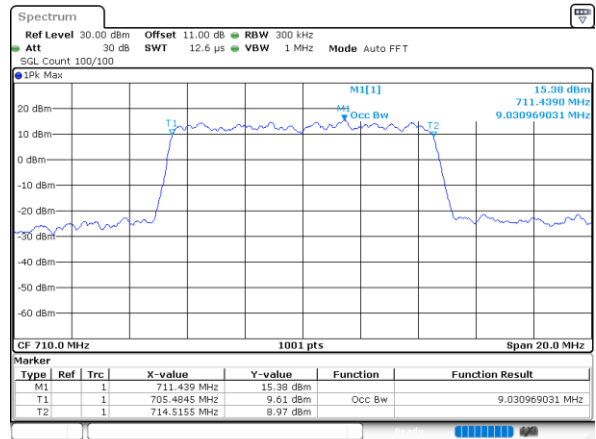
Middle Channel / 5MHz / 16QAM



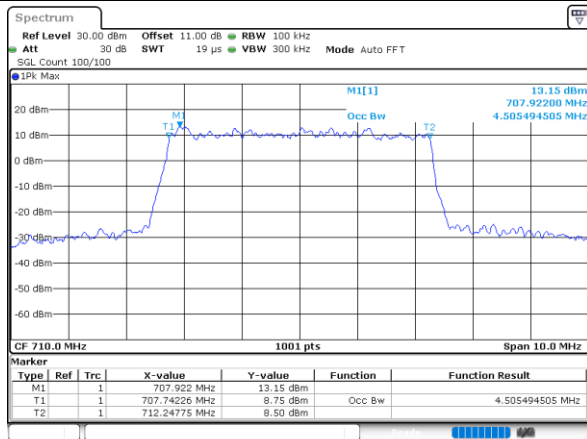
Middle Channel / 10MHz / QPSK



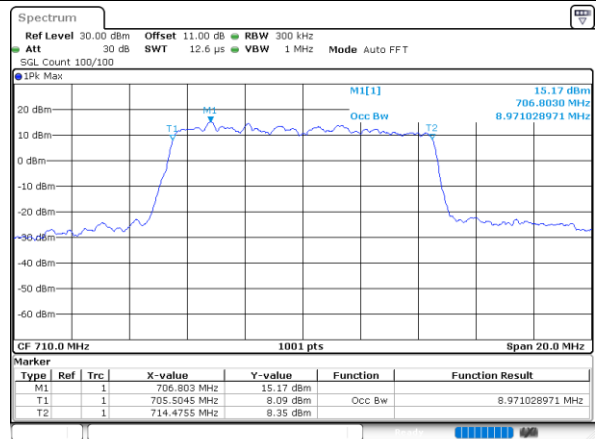
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

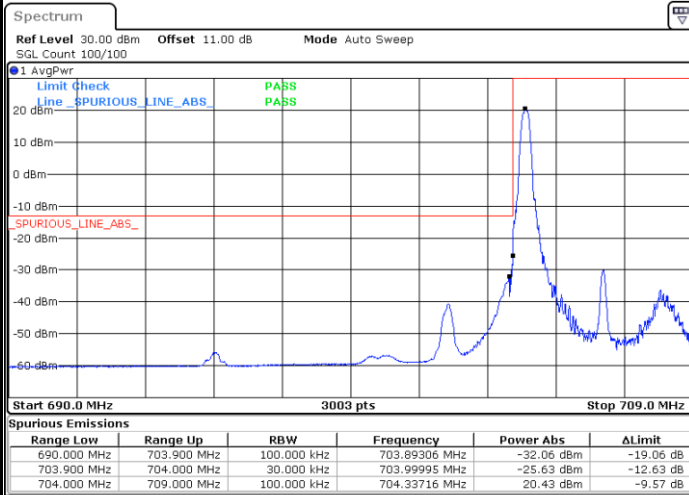




Conducted Band Edge

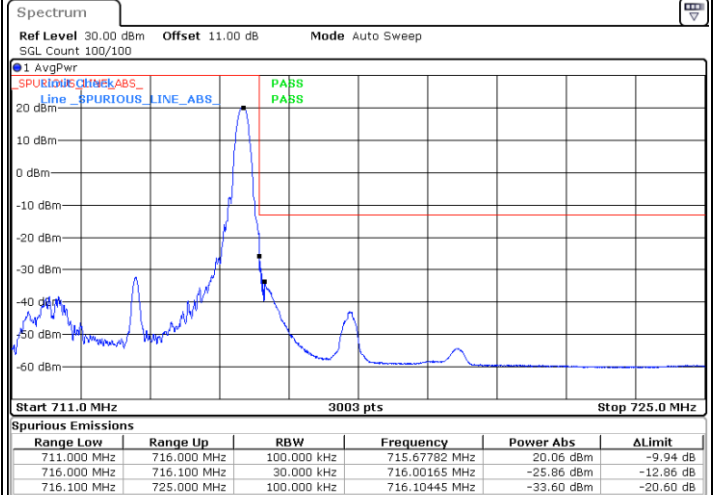
LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



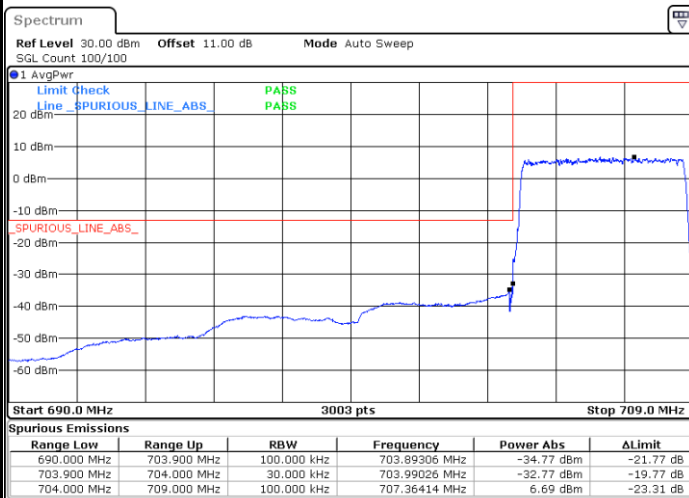
Date: 27.JUN.2021 10:03:46

Highest Band Edge / 1 RB



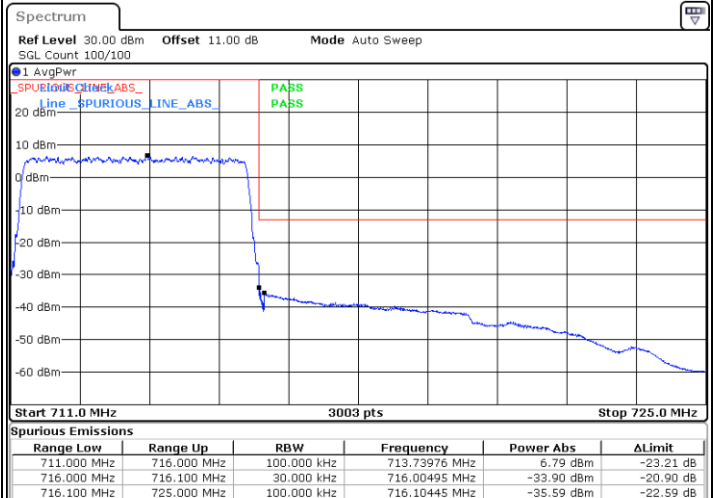
Date: 27.JUN.2021 10:10:07

Lowest Band Edge / Full RB



Date: 27.JUN.2021 10:05:38

Highest Band Edge / Full RB

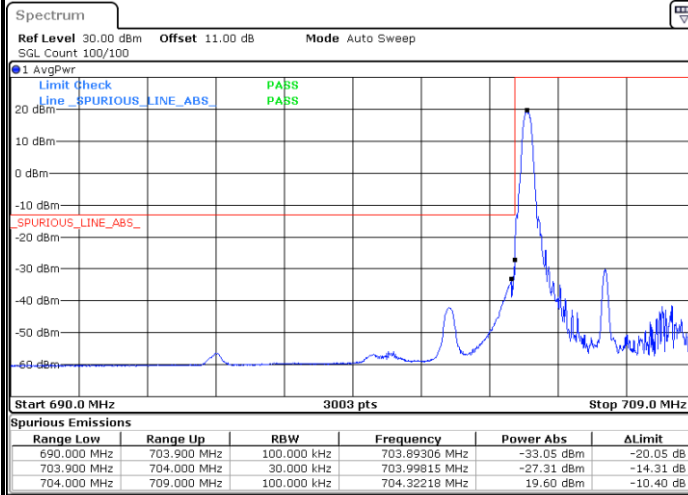


Date: 27.JUN.2021 10:11:58

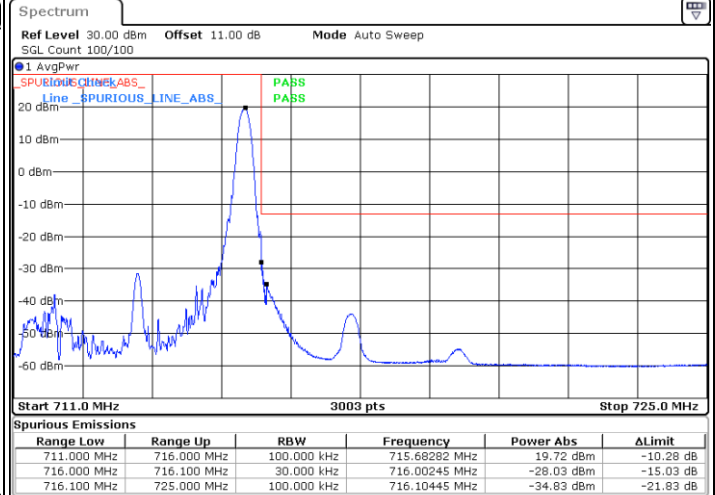


LTE Band 17 / 5MHz / 16QAM

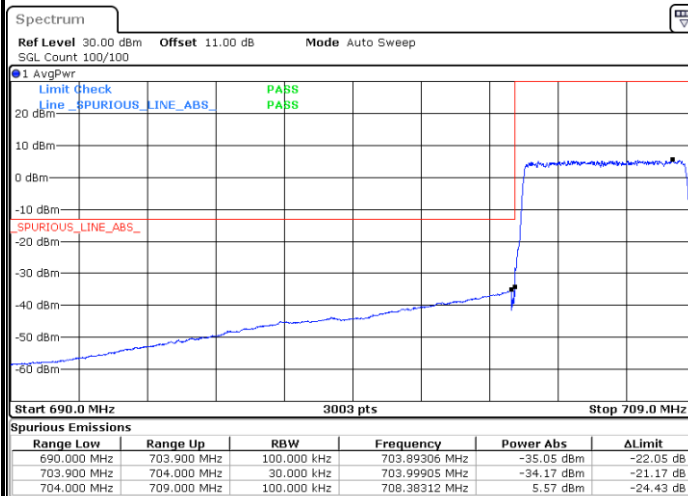
Lowest Band Edge / 1 RB



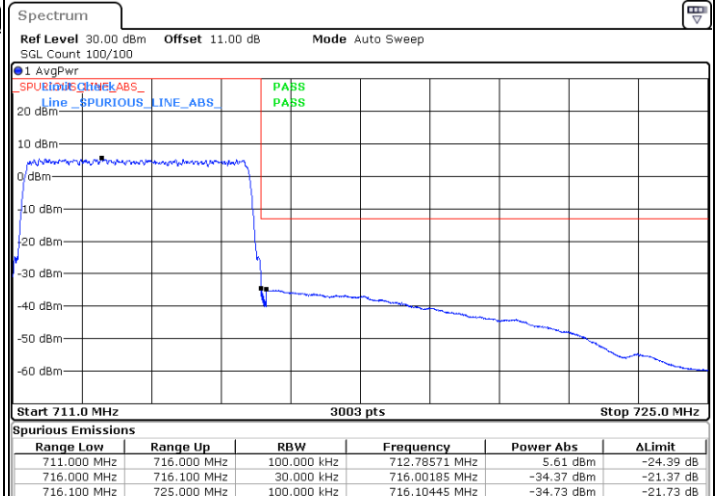
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



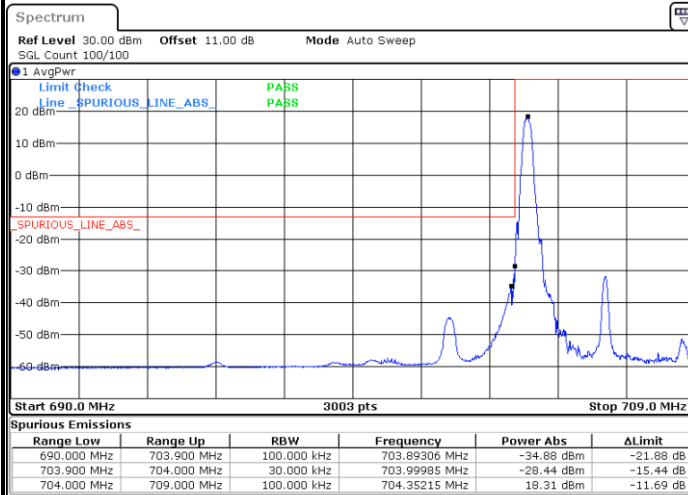
Highest Band Edge / Full RB





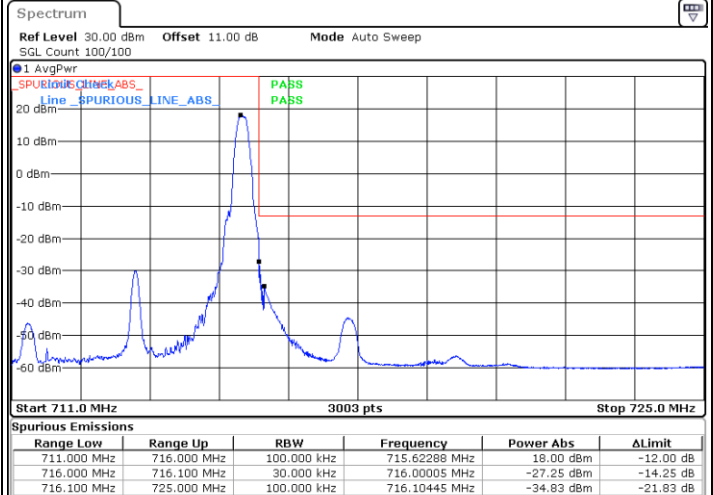
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



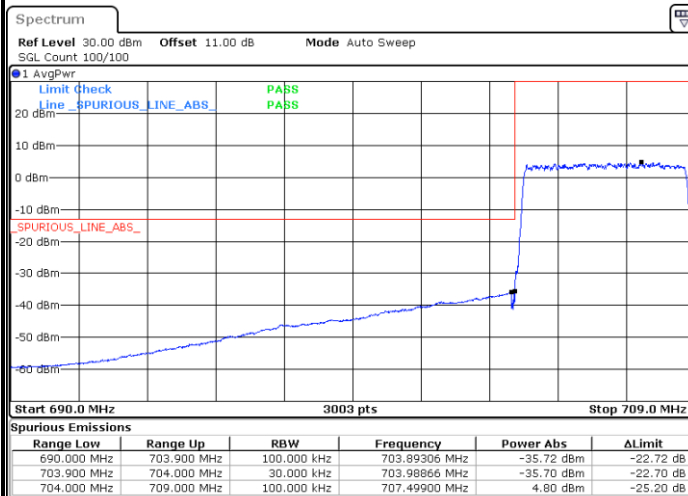
Date: 27.JUN.2021 10:25:04

Highest Band Edge / 1 RB



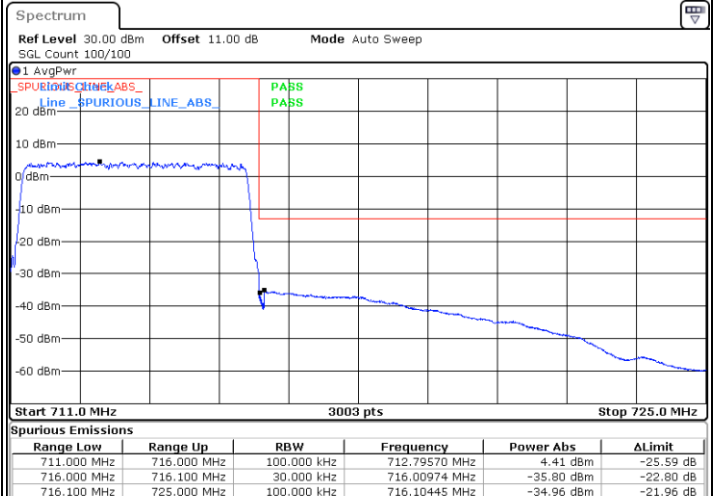
Date: 27.JUN.2021 10:27:38

Lowest Band Edge / Full RB



Date: 27.JUN.2021 10:26:00

Highest Band Edge / Full RB

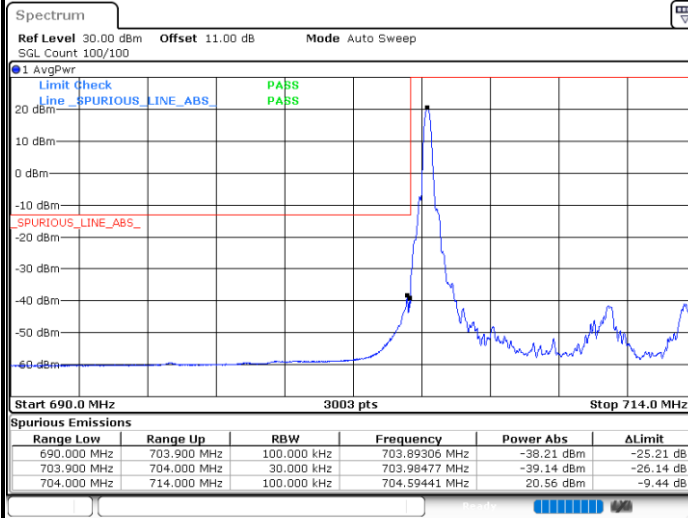


Date: 27.JUN.2021 10:28:34

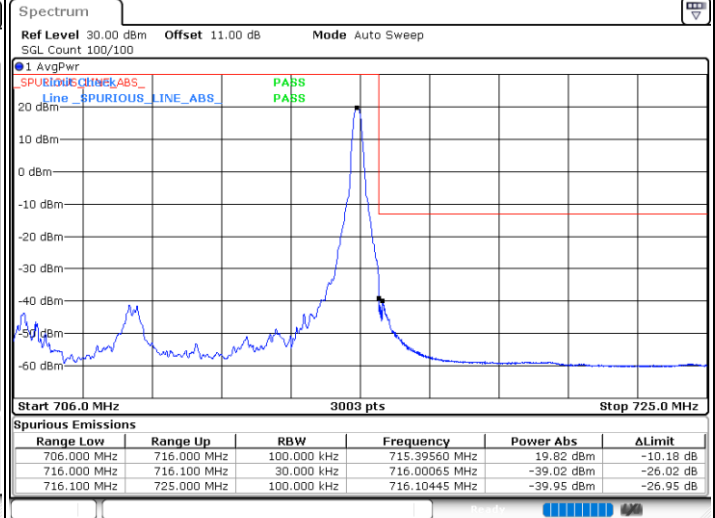


LTE Band 17 / 10MHz / QPSK

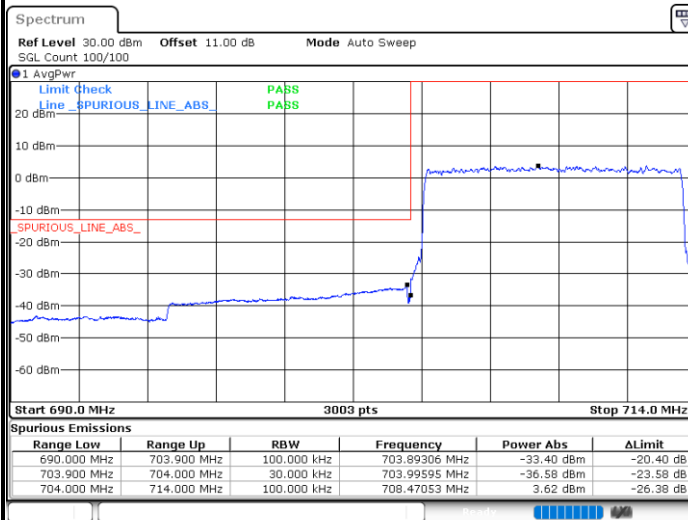
Lowest Band Edge / 1 RB



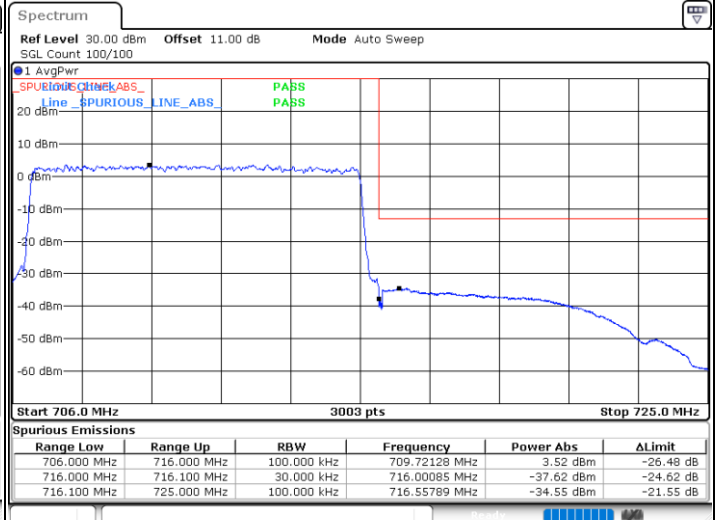
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



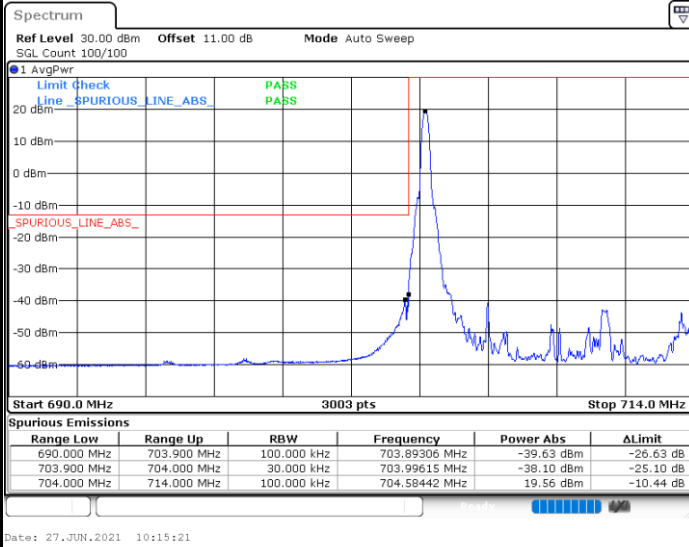
Highest Band Edge / Full RB



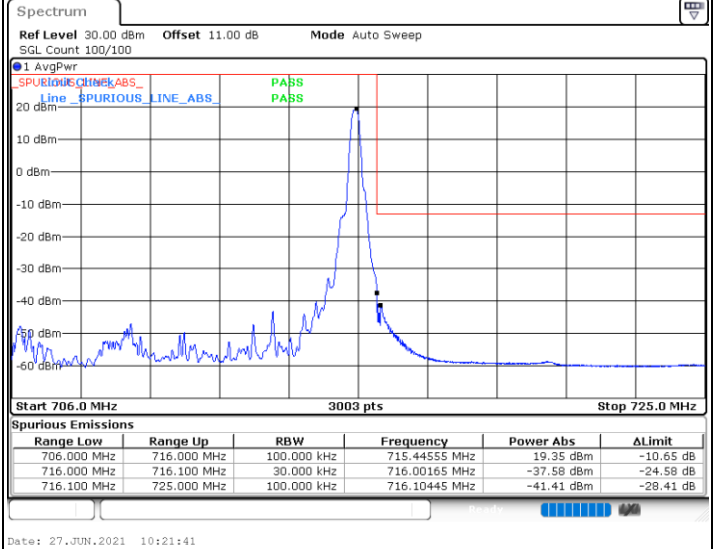


LTE Band 17 / 10MHz / 16QAM

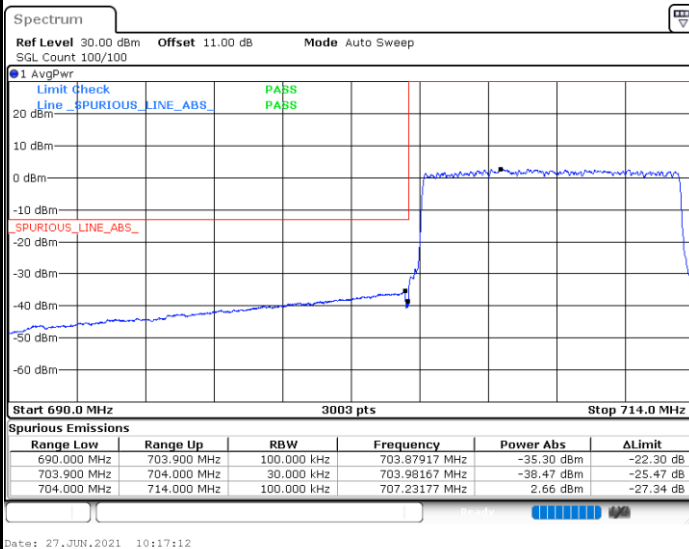
Lowest Band Edge / 1 RB



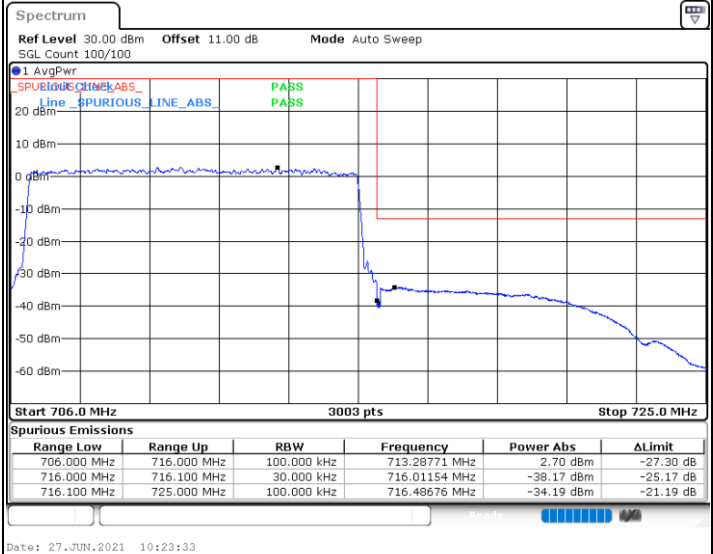
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



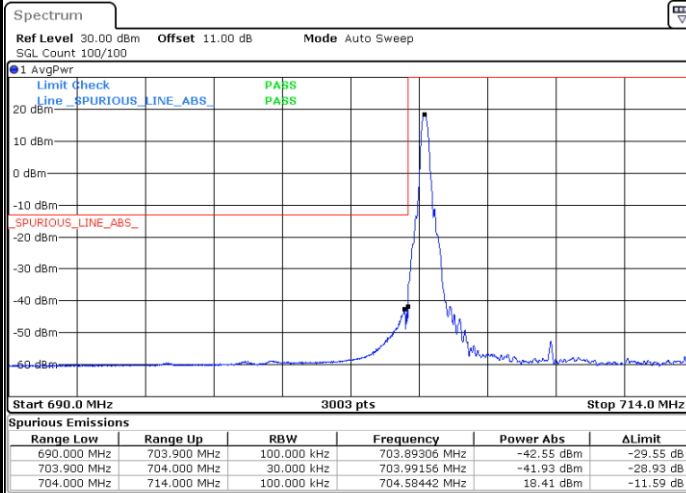
Highest Band Edge / Full RB



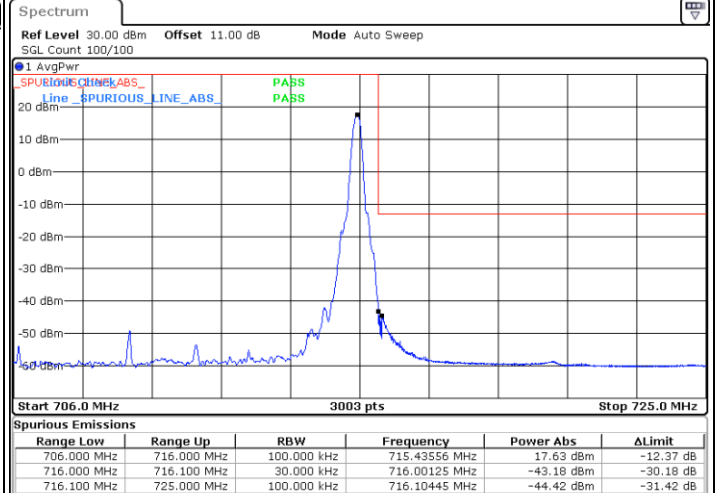


LTE Band 17 / 10MHz / 64QAM

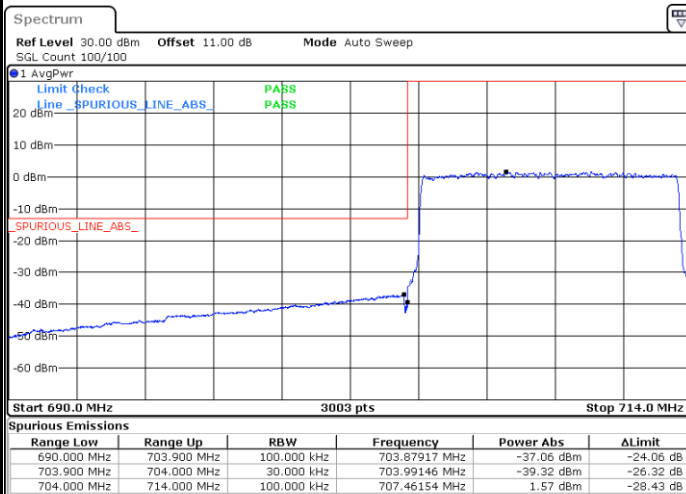
Lowest Band Edge / 1 RB



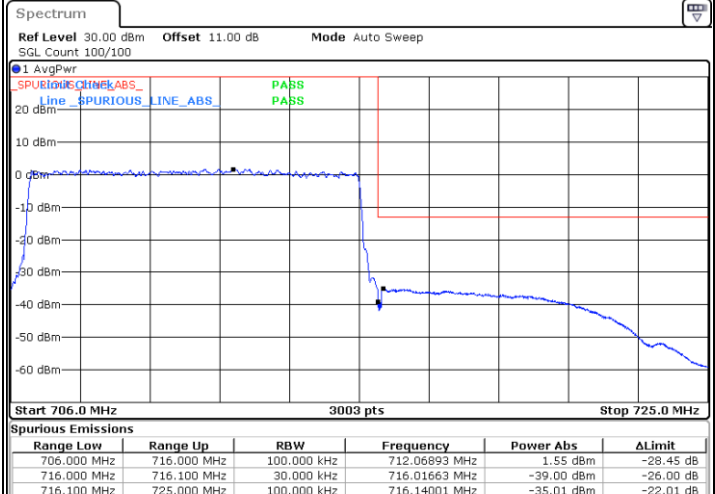
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

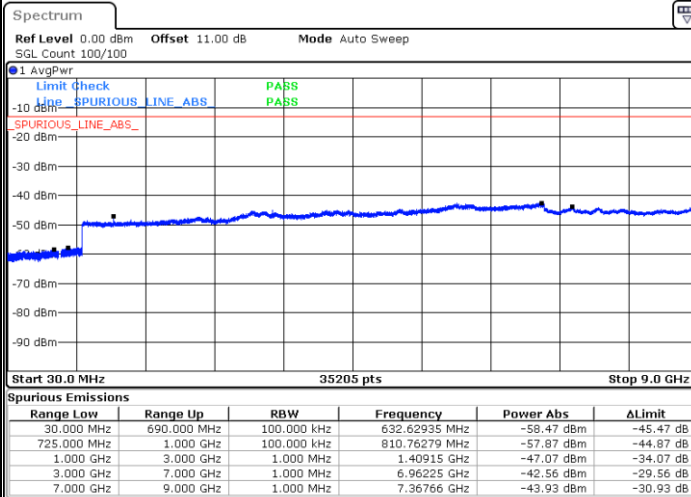




Conducted Spurious Emission

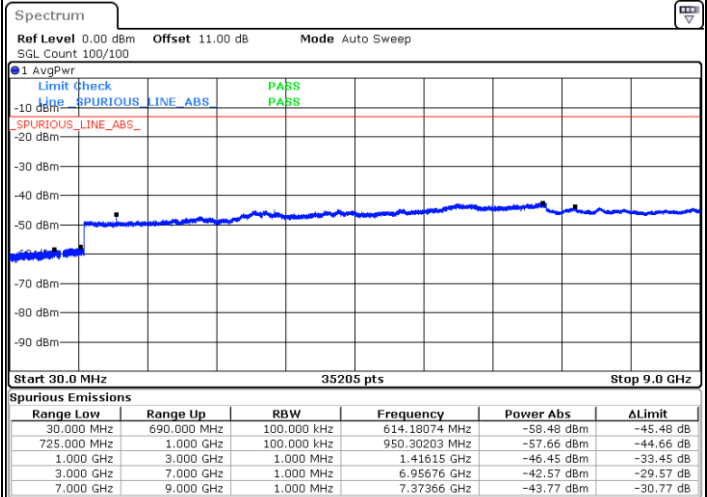
LTE Band 17 / 5MHz

Lowest Channel / QPSK



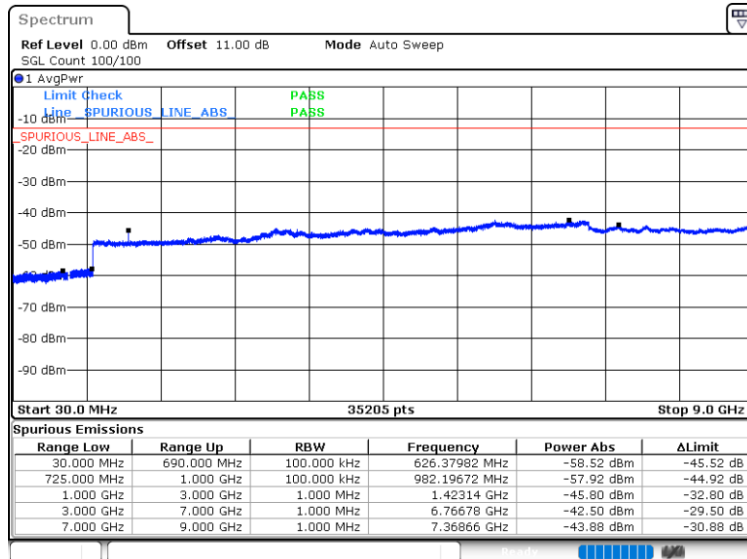
Date: 27.JUN.2021 10:07:09

Middle Channel / QPSK



Date: 27.JUN.2021 10:09:12

Highest Channel / QPSK

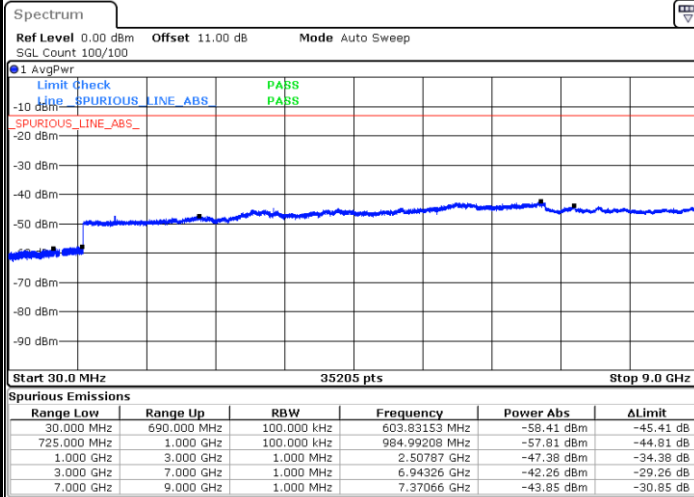


Date: 27.JUN.2021 10:13:29



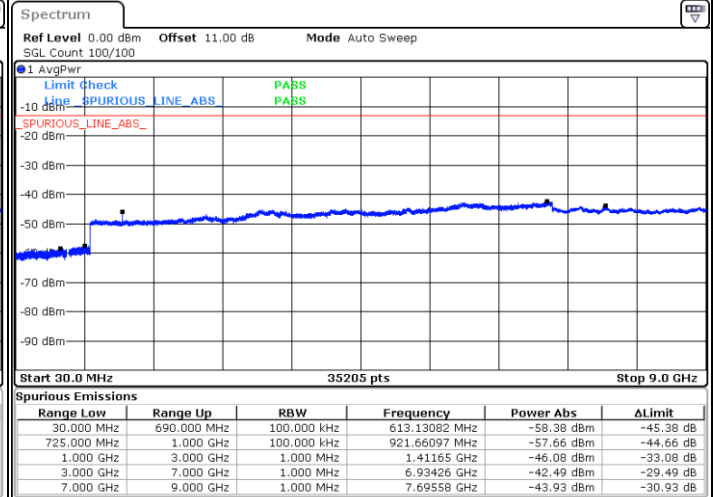
LTE Band 17 / 10MHz

Lowest Channel / QPSK



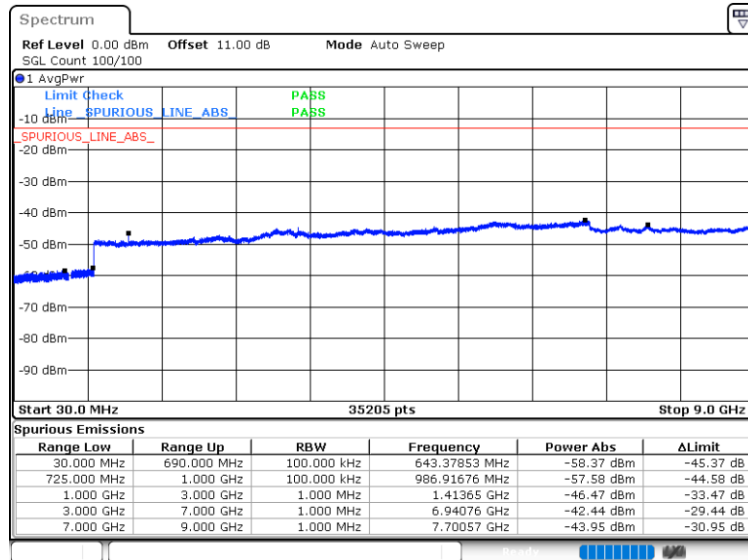
Date: 27.JUN.2021 10:17:48

Middle Channel / QPSK



Date: 27.JUN.2021 10:19:51

Highest Channel / QPSK



Date: 27.JUN.2021 10:24:08

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0111	PASS
40	Normal Voltage	0.0189	
30	Normal Voltage	0.0111	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0108	
-10	Normal Voltage	0.0073	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

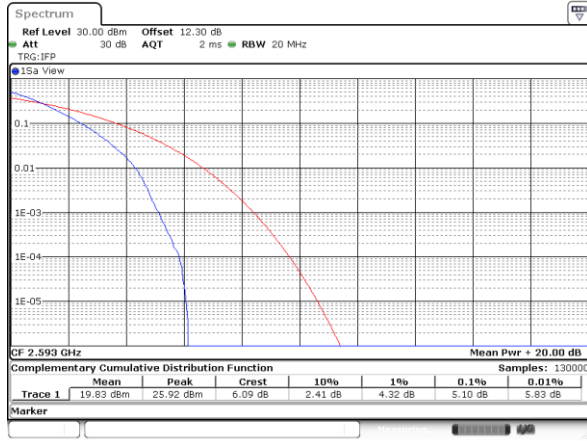
Peak-to-Average Ratio

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	5.10	6.03	6.49	-	PASS



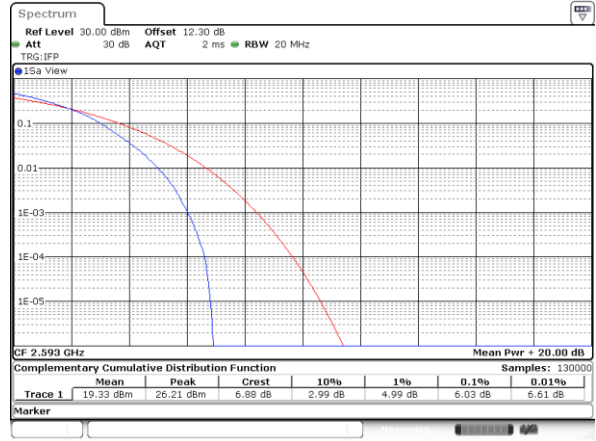
LTE Band 41 / 20MHz / QPSK

Middle Channel / Full RB



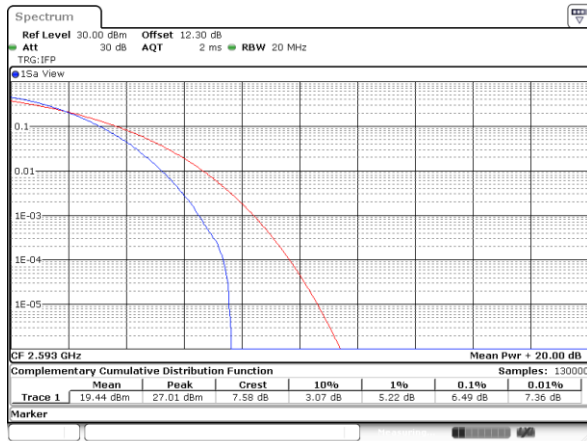
LTE Band 41 / 20MHz / 16QAM

Middle Channel / Full RB



LTE Band 41 / 20MHz / 64QAM

Middle Channel / Full RB



LTE Band 41 / 20MHz / 256QAM

Middle Channel / Full RB

-

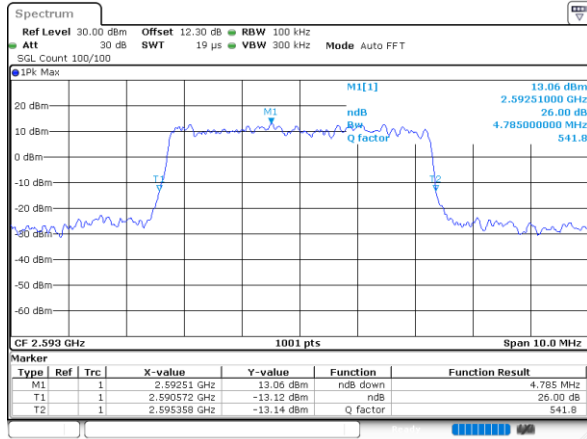
**26dB Bandwidth**

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	-	-	-	-	4.79	4.88	9.83	9.81	14.30	14.42	18.62	19.02
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	-	-	-	-	4.82	-	9.79	-	14.42	-	18.82	-



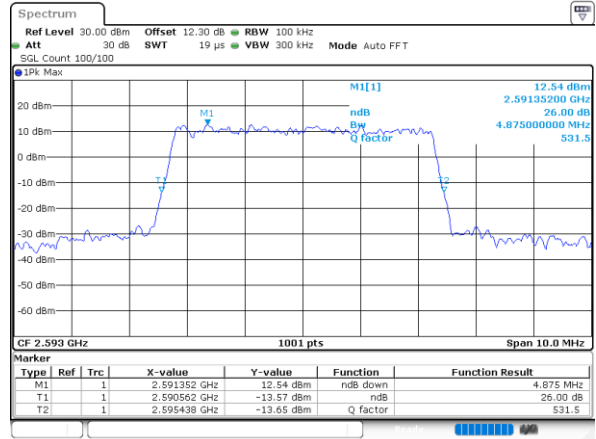
LTE Band 41

Middle Channel / 5MHz / QPSK



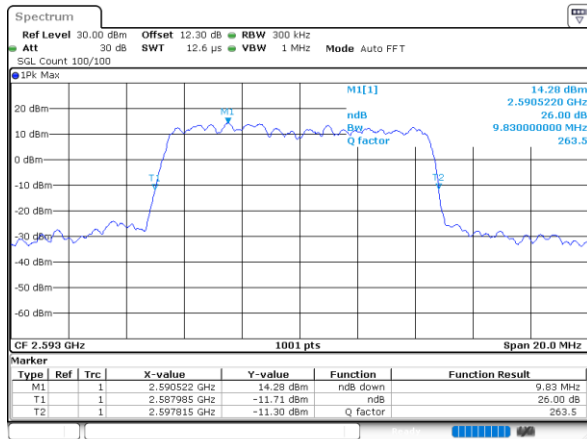
Date: 27 JUN 2021 08:48:54

Middle Channel / 5MHz / 16QAM



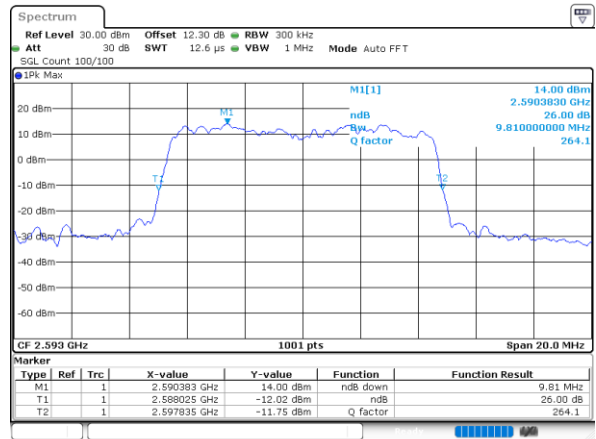
Date: 27 JUN 2021 08:49:15

Middle Channel / 10MHz / QPSK



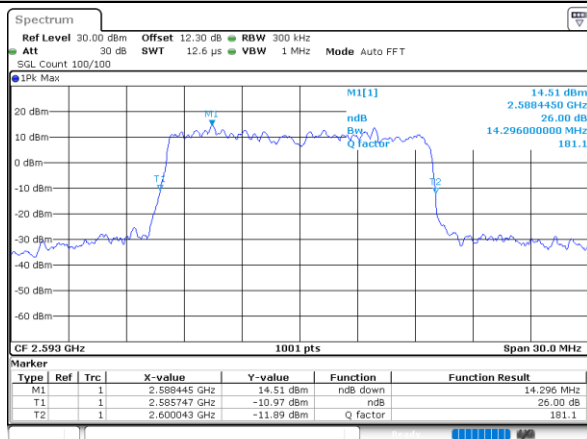
Date: 27 JUN 2021 08:50:23

Middle Channel / 10MHz / 16QAM



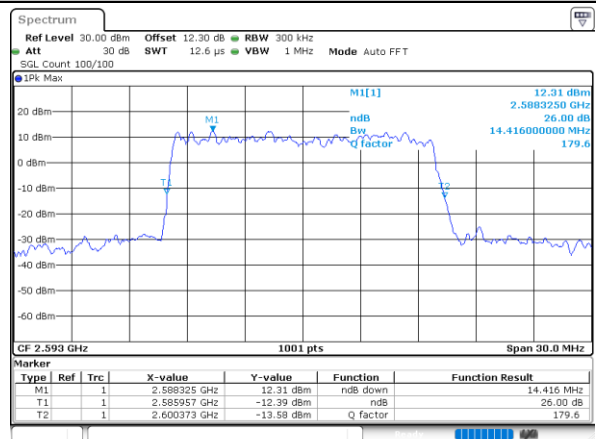
Date: 27 JUN 2021 08:50:44

Middle Channel / 15MHz / QPSK



Date: 27 JUN 2021 08:51:51

Middle Channel / 15MHz / 16QAM

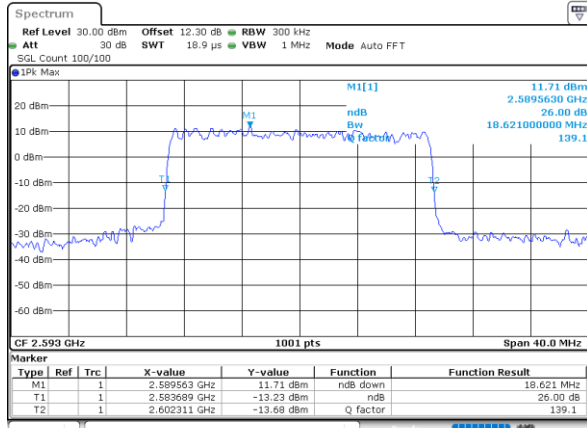


Date: 27 JUN 2021 08:52:12



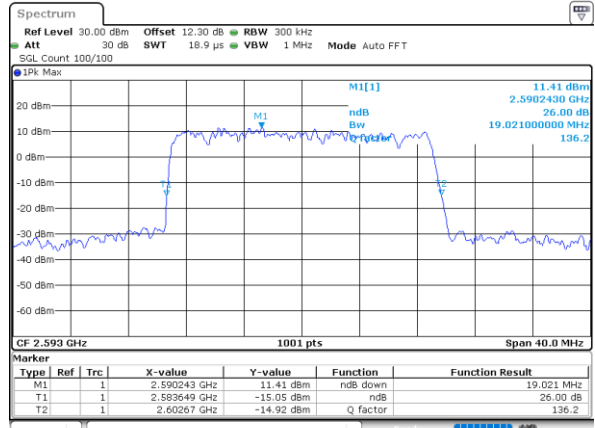
LTE Band 41

Middle Channel / 20MHz / QPSK



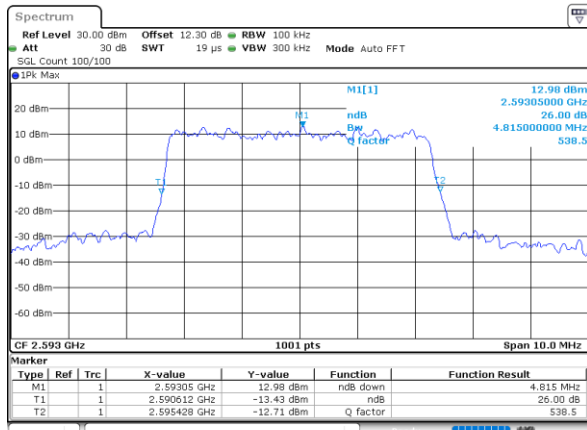
Date: 27 JUN 2021 08:53:20

Middle Channel / 20MHz / 16QAM



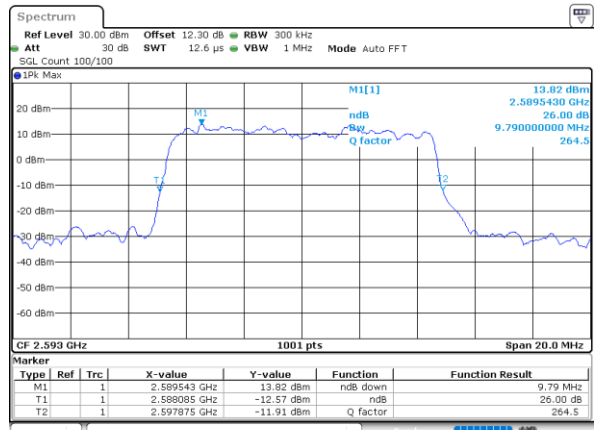
Date: 27 JUN 2021 08:53:41

Middle Channel / 5MHz / 64QAM



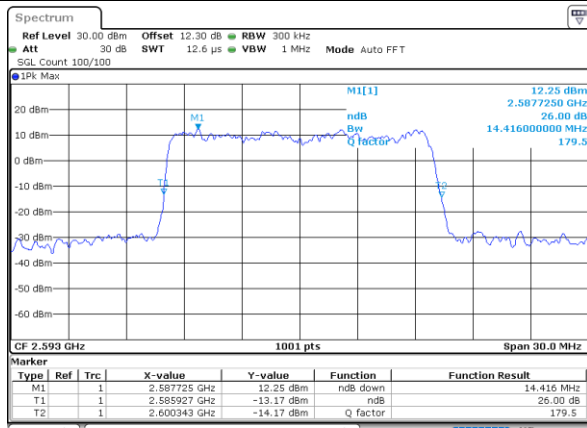
Date: 27 JUN 2021 08:54:26

Middle Channel / 10MHz / 64QAM



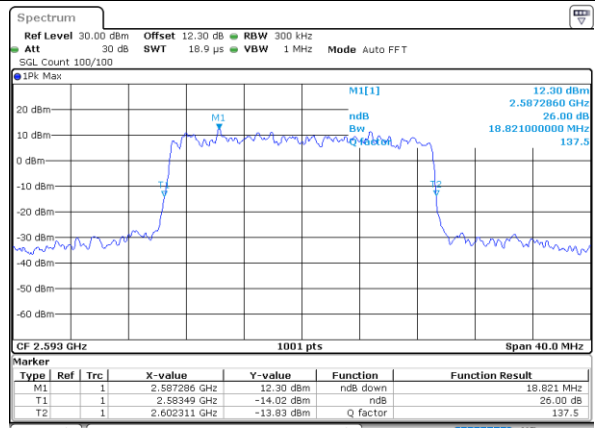
Date: 27 JUN 2021 08:55:11

Middle Channel / 15MHz / 64QAM



Date: 27 JUN 2021 08:55:56

Middle Channel / 20MHz / 64QAM



Date: 27 JUN 2021 08:56:41

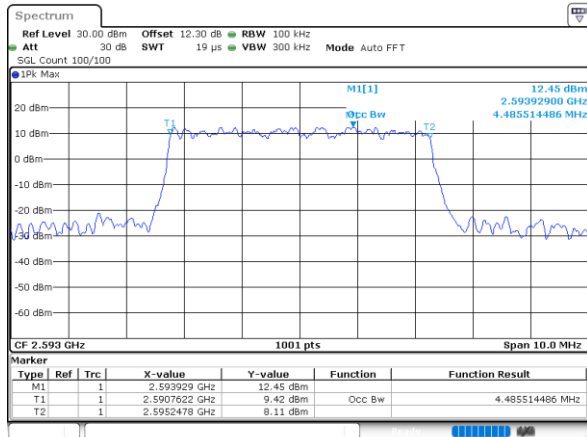
**Occupied Bandwidth**

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	4.52	9.05	8.95	13.46	13.43	17.86	17.86
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	-	-	-	-	4.49	-	9.03	-	13.46	-	17.78	-

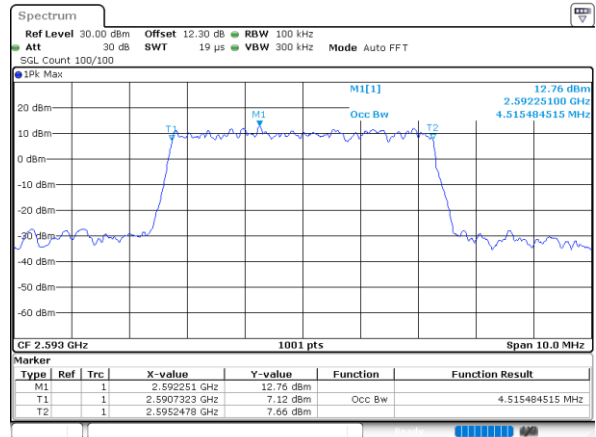


LTE Band 41

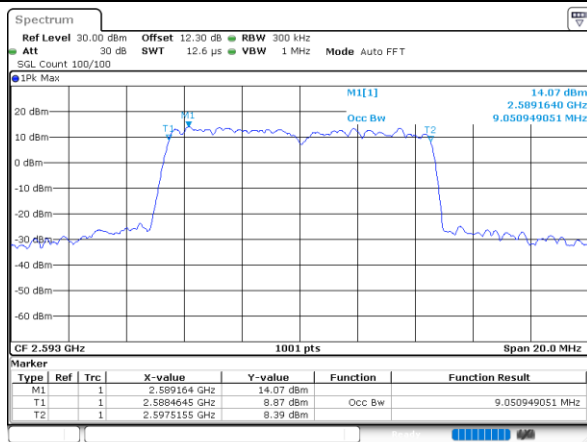
Middle Channel / 5MHz / QPSK



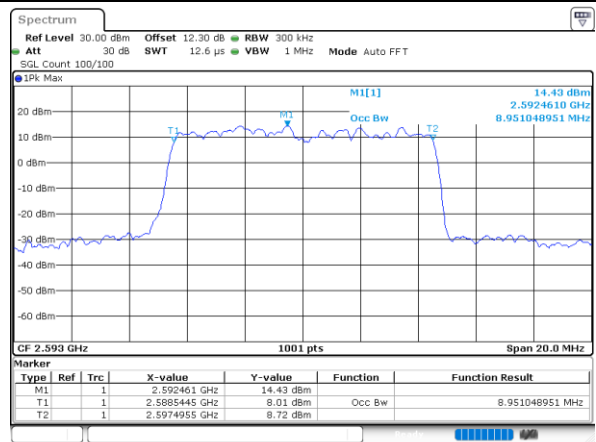
Middle Channel / 5MHz / 16QAM



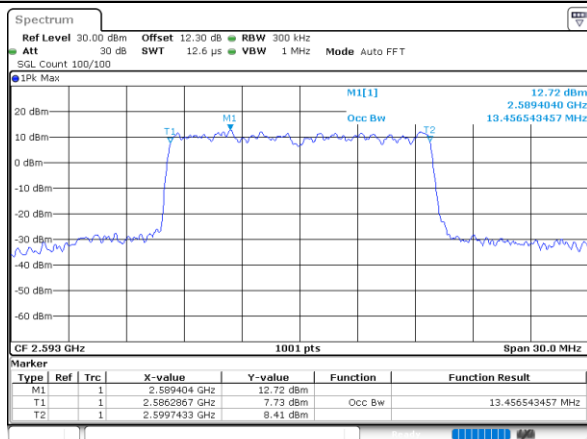
Middle Channel / 10MHz / QPSK



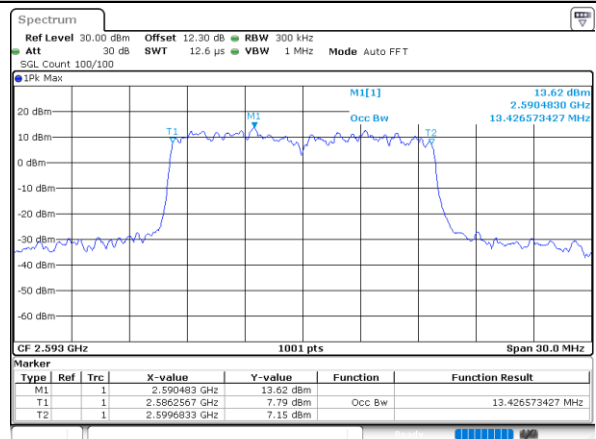
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



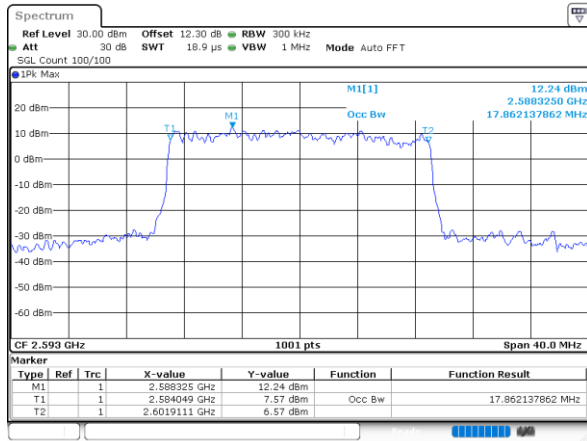
Middle Channel / 15MHz / 16QAM





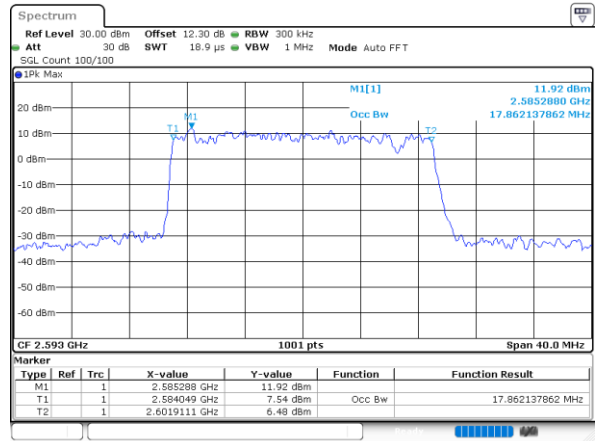
LTE Band 41

Middle Channel / 20MHz / QPSK



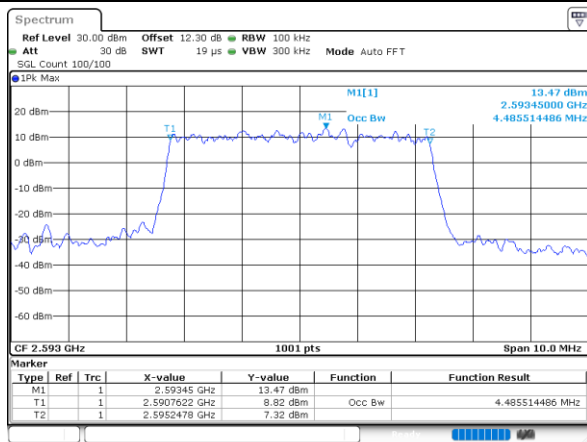
Date: 27 JUN 2021 08:52:35

Middle Channel / 20MHz / 16QAM



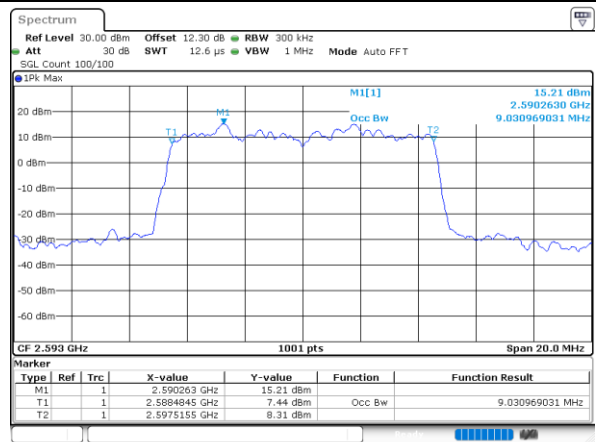
Date: 27 JUN 2021 08:52:58

Middle Channel / 5MHz / 64QAM



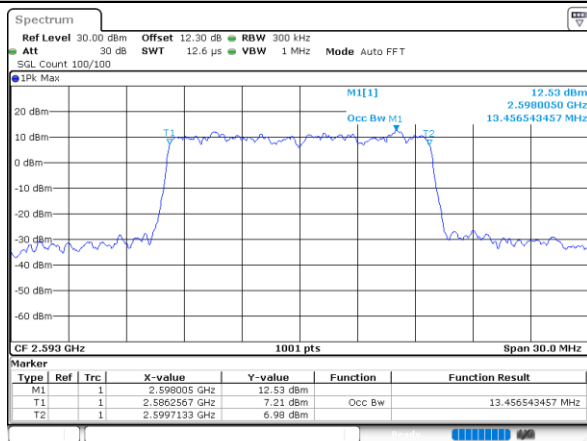
Date: 27 JUN 2021 08:54:04

Middle Channel / 10MHz / 64QAM



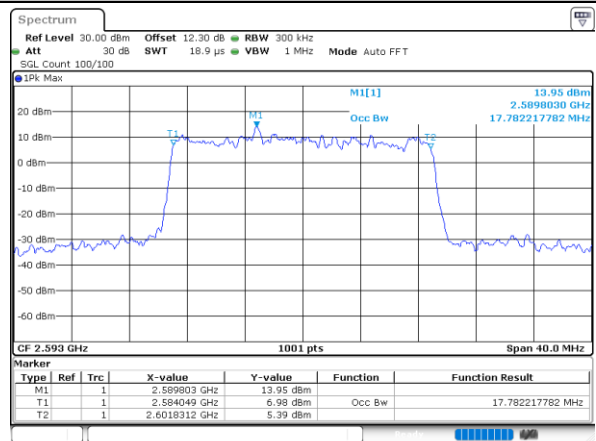
Date: 27 JUN 2021 08:54:49

Middle Channel / 15MHz / 64QAM

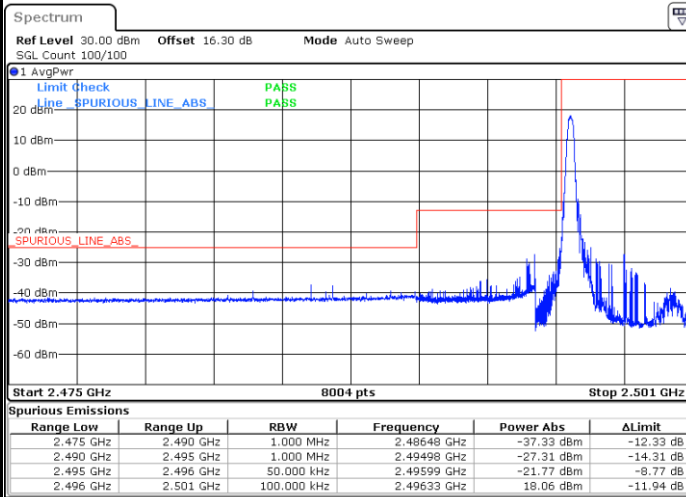
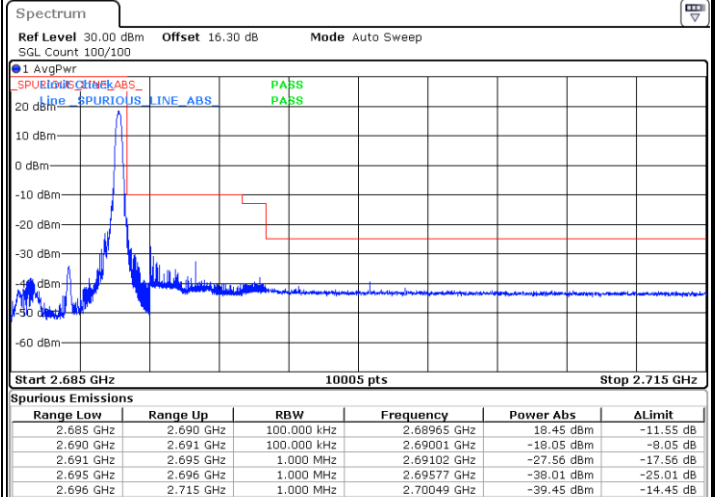
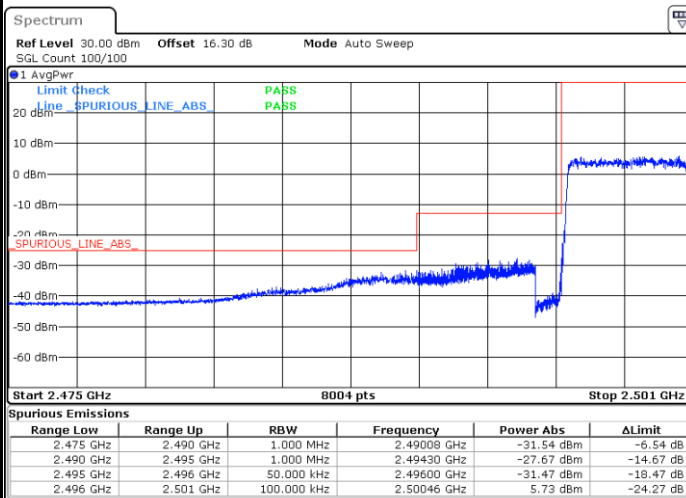


Date: 27 JUN 2021 08:55:34

Middle Channel / 20MHz / 64QAM



Date: 27 JUN 2021 08:56:19

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