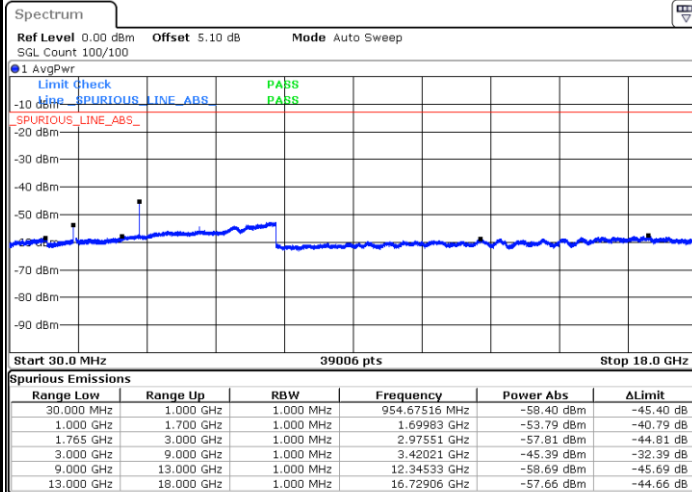




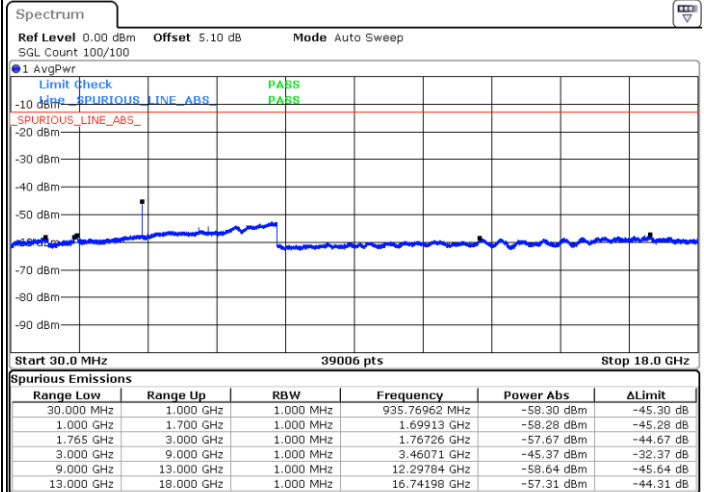
LTE Band 4 / 5MHz

Lowest Channel / QPSK



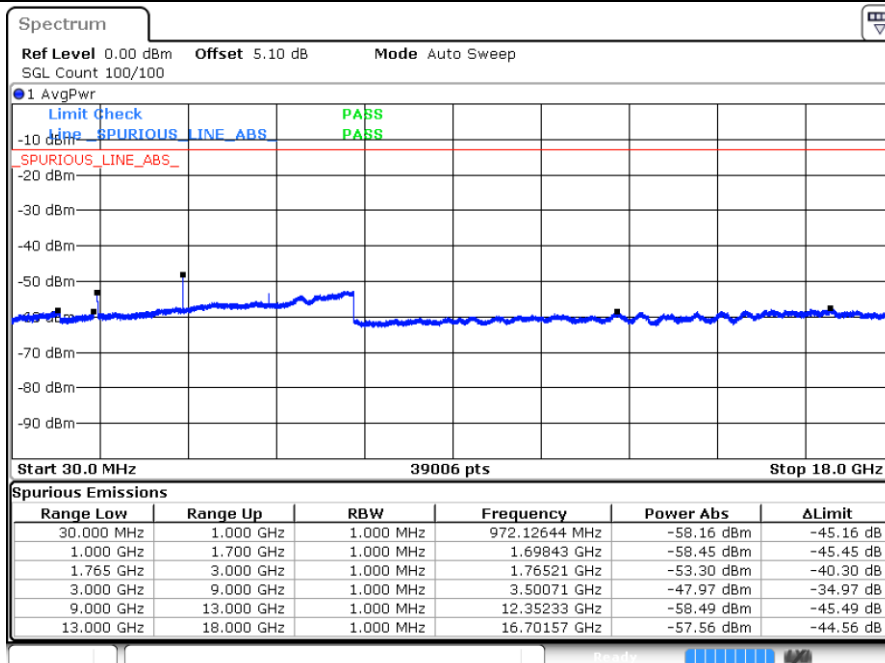
Date: 22 DEC 2021 03:32:16

Middle Channel / QPSK



Date: 22 DEC 2021 03:38:48

Highest Channel / QPSK

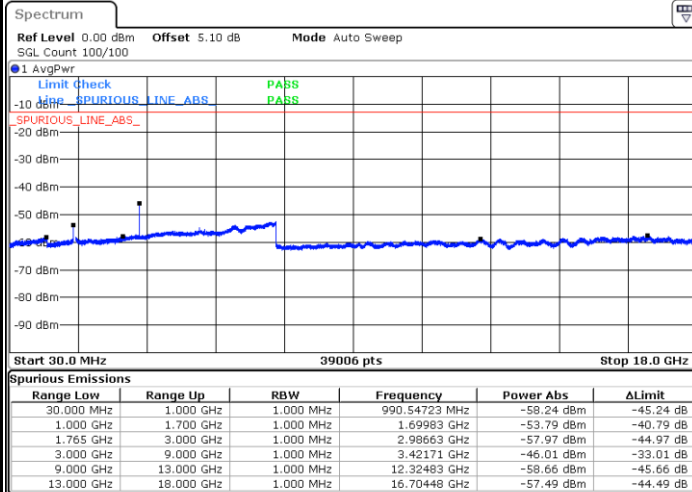


Date: 22 DEC 2021 03:39:53



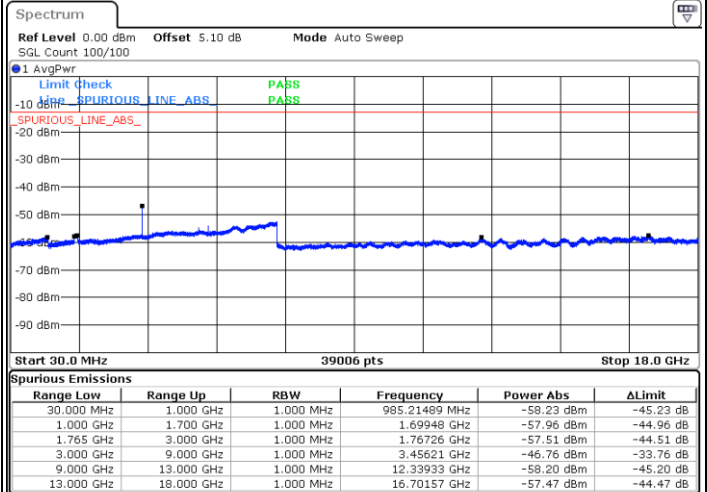
LTE Band 4 / 10MHz

Lowest Channel / QPSK



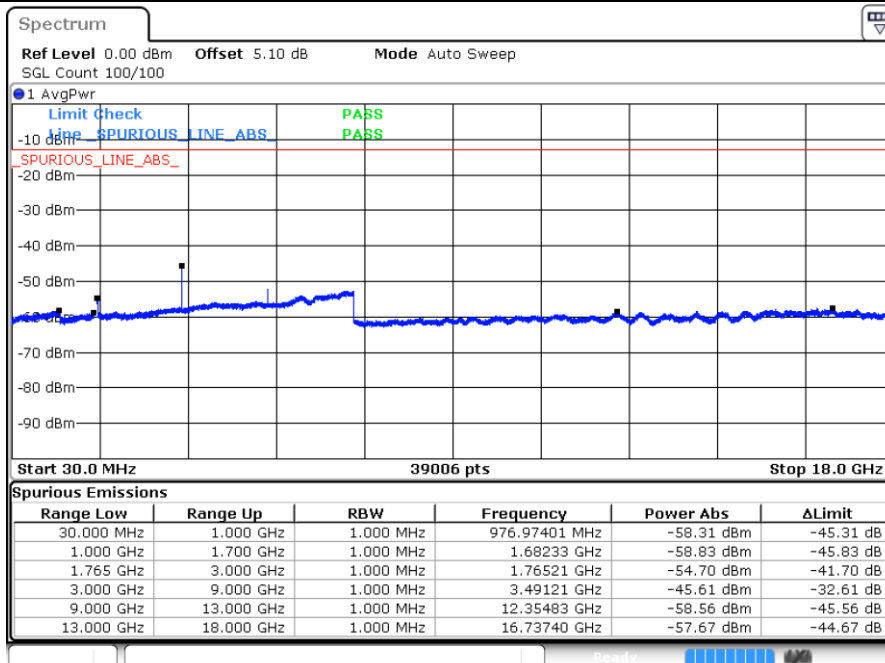
Date: 22 DEC 2021 03:46:37

Middle Channel / QPSK



Date: 22 DEC 2021 04:00:33

Highest Channel / QPSK



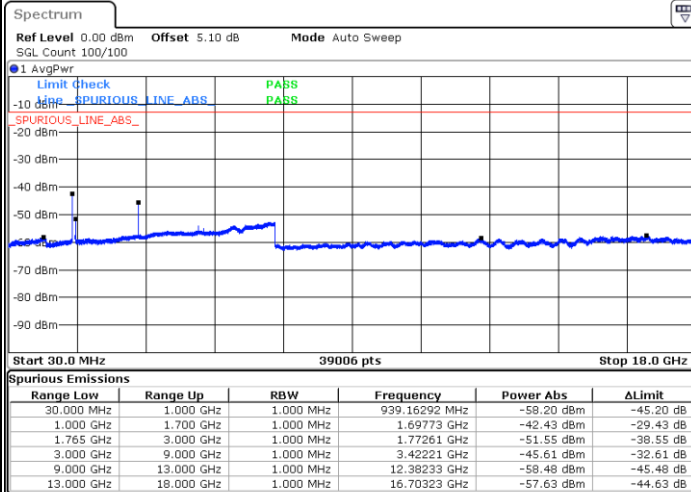
Date: 22 DEC 2021 04:01:38



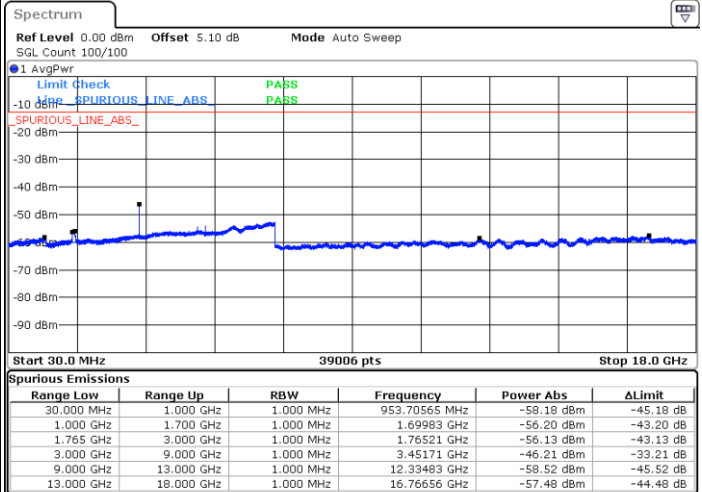
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

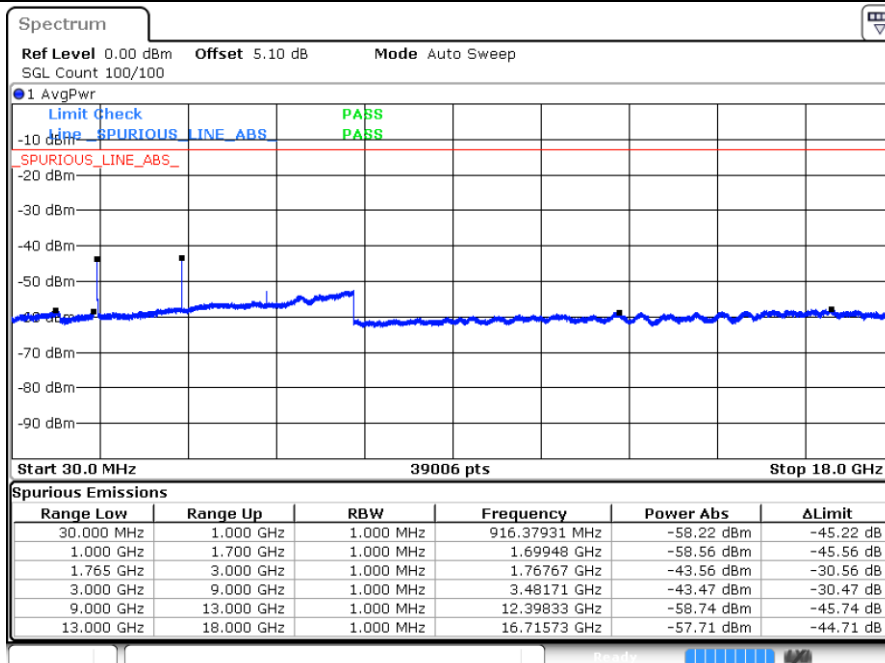


Date: 22 DEC 2021 04:06:42



Date: 22 DEC 2021 04:12:43

Highest Channel / QPSK

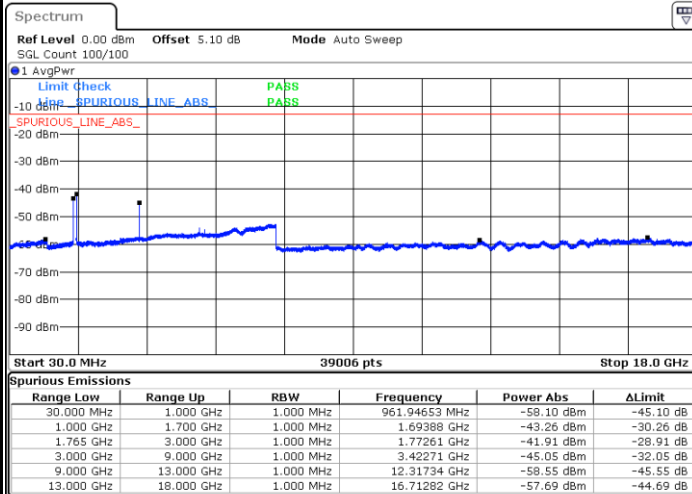


Date: 22 DEC 2021 04:13:47



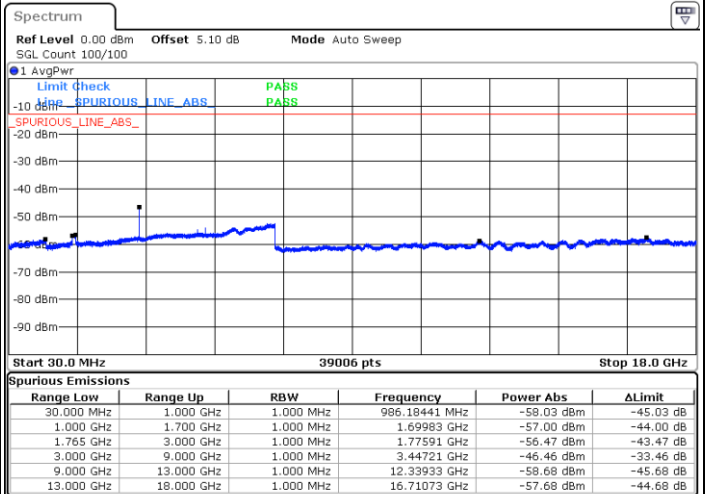
LTE Band 4 / 20MHz

Lowest Channel / QPSK



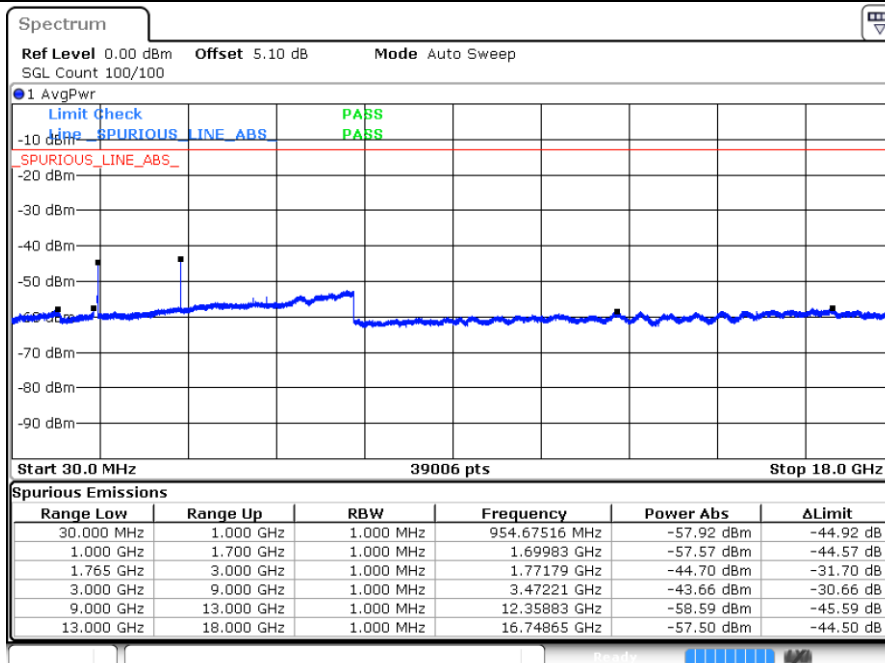
Date: 22 DEC 2021 04:20:00

Middle Channel / QPSK



Date: 22 DEC 2021 04:26:09

Highest Channel / QPSK



Date: 22 DEC 2021 04:27:14

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	0.0012	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0003	

Note:

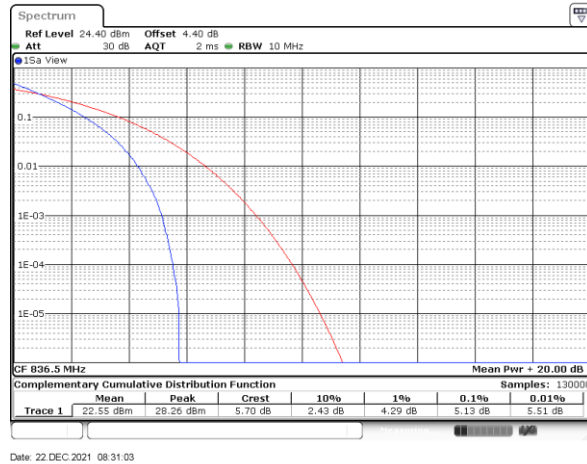
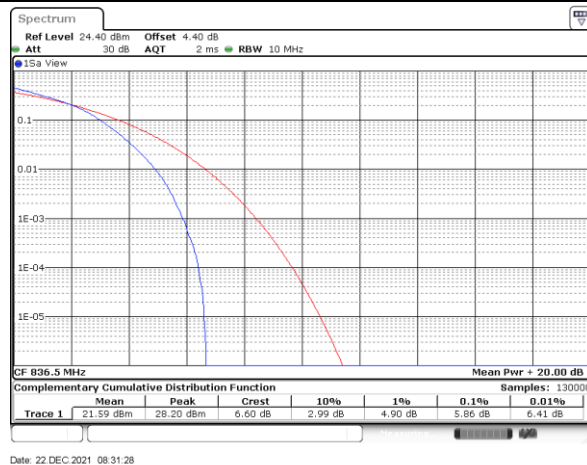
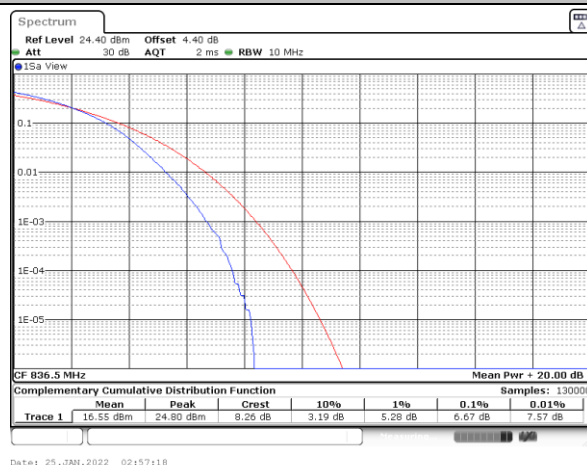
1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

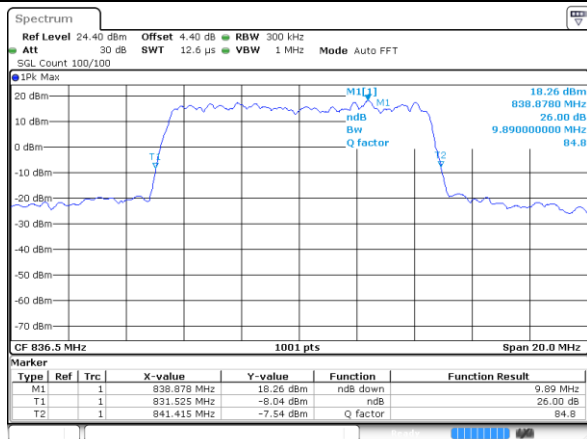
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.13	5.86	6.67	PASS

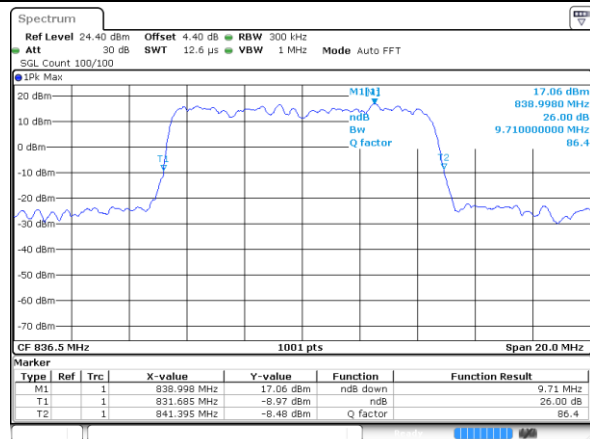
LTE Band 5 / 10MHz
Middle Channel / Full RB/ QPSK

Middle Channel / Full RB/ 16QAM

Middle Channel / Full RB/ 64QAM


**26dB Bandwidth**

Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	9.71

LTE Band 5**Middle Channel / 10MHz / QPSK**

Date: 22 DEC 2021 08:31:52

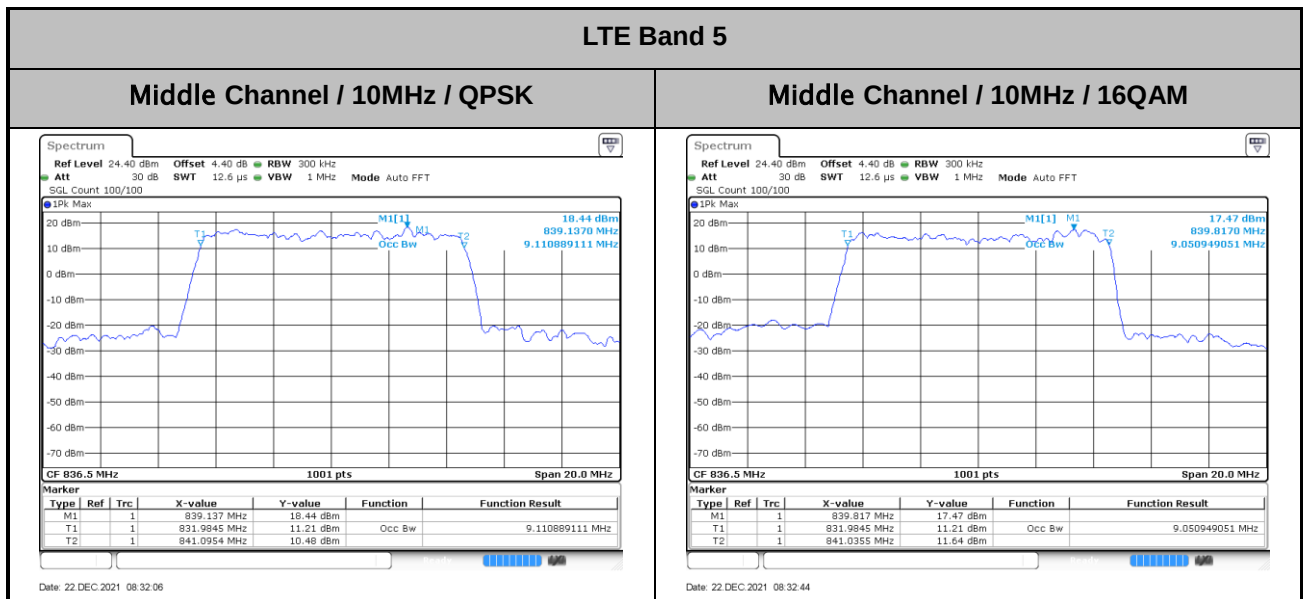
Middle Channel / 10MHz / 16QAM

Date: 22 DEC 2021 08:32:29



Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.11	9.05

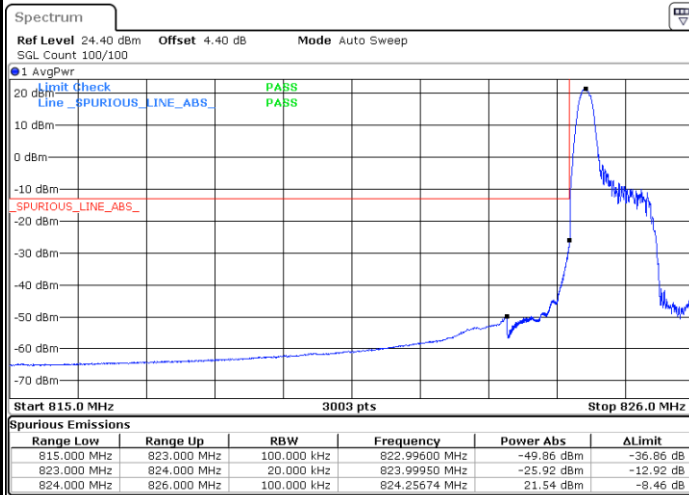




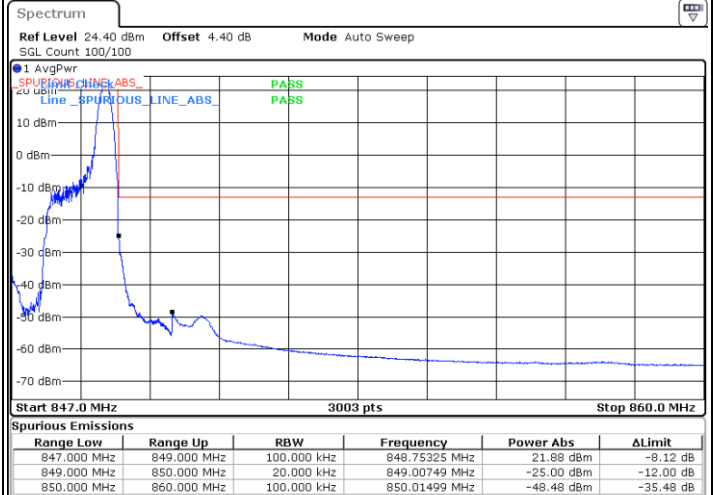
Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

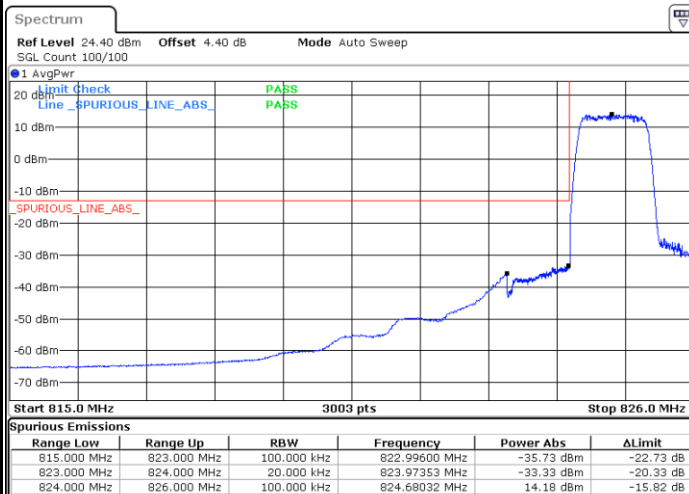
Lowest Band Edge / 1RB



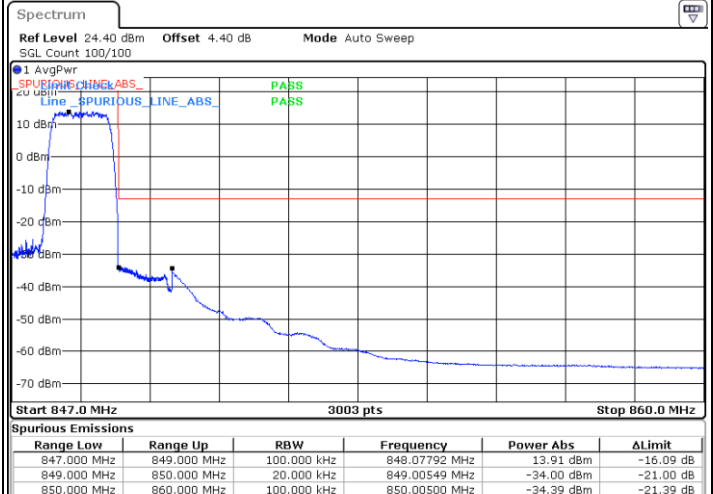
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



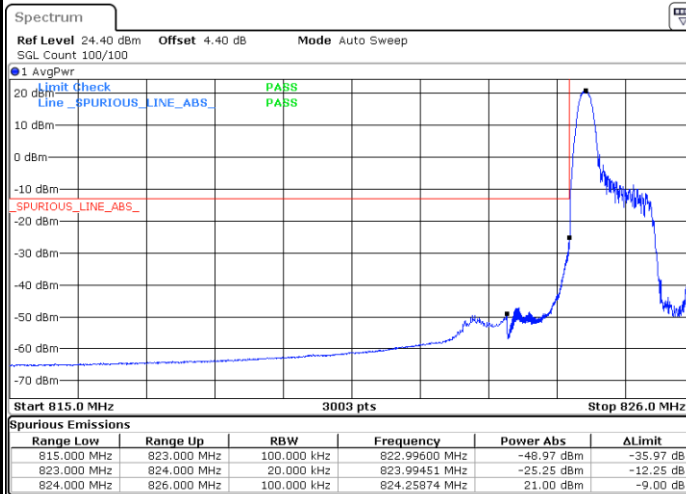
Highest Band Edge / Full RB



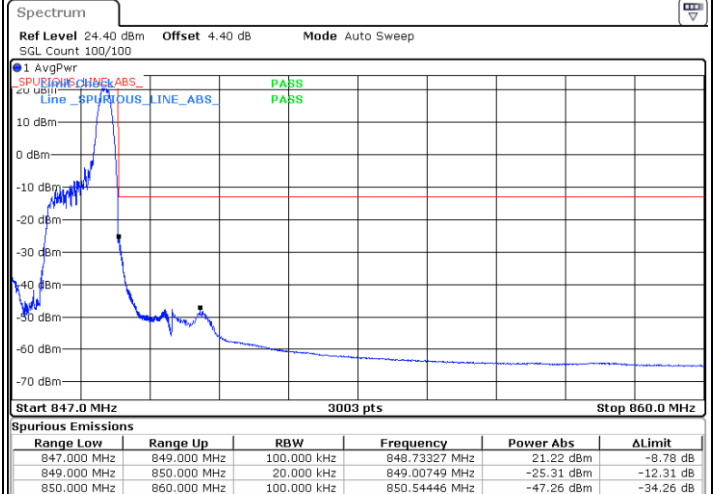


LTE Band 5 / 1.4MHz / 16QAM

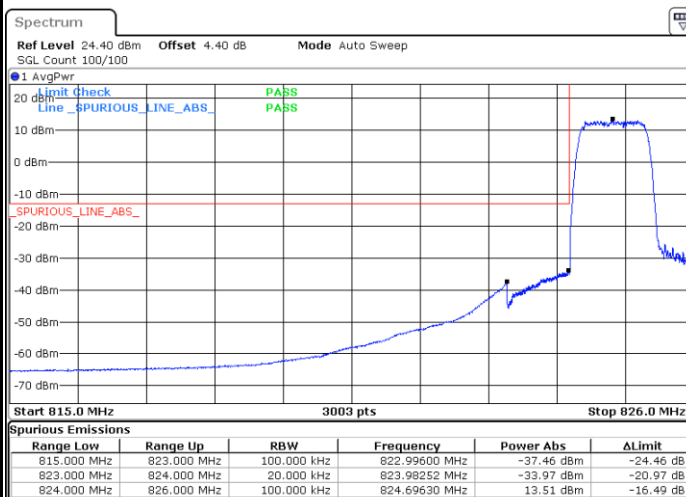
Lowest Band Edge / 1 RB



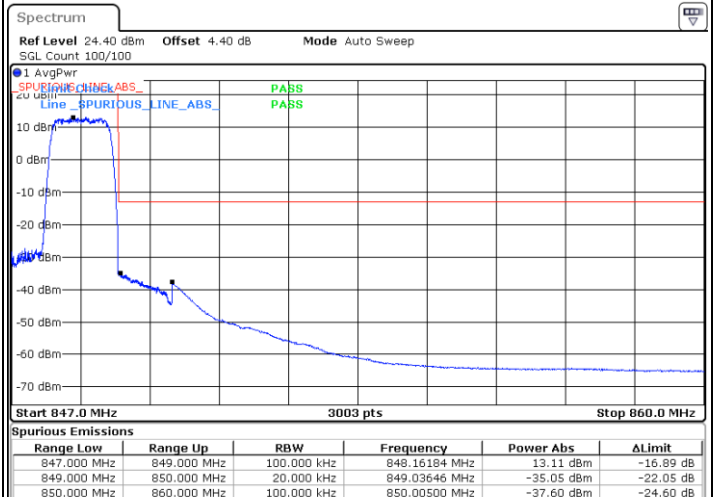
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



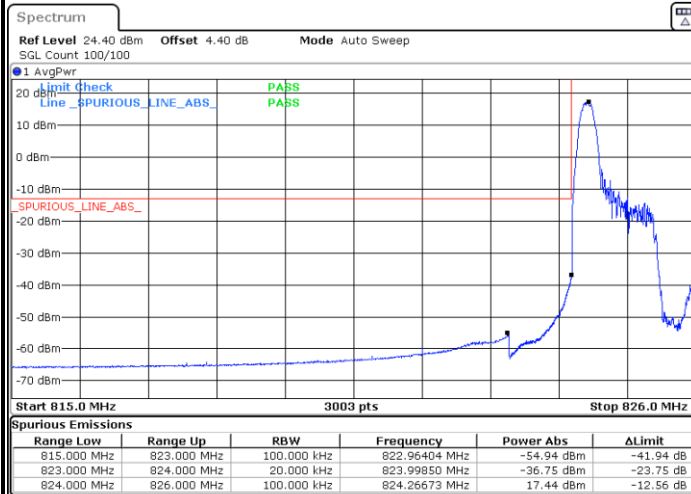
Highest Band Edge / Full RB



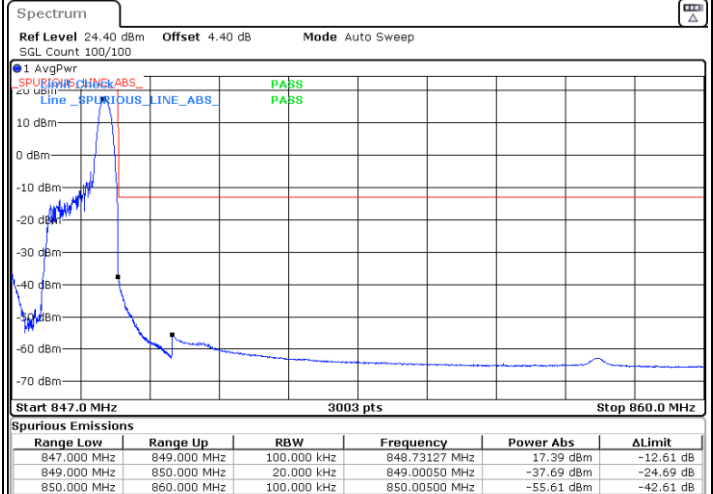


LTE Band 5 / 1.4MHz / 64QAM

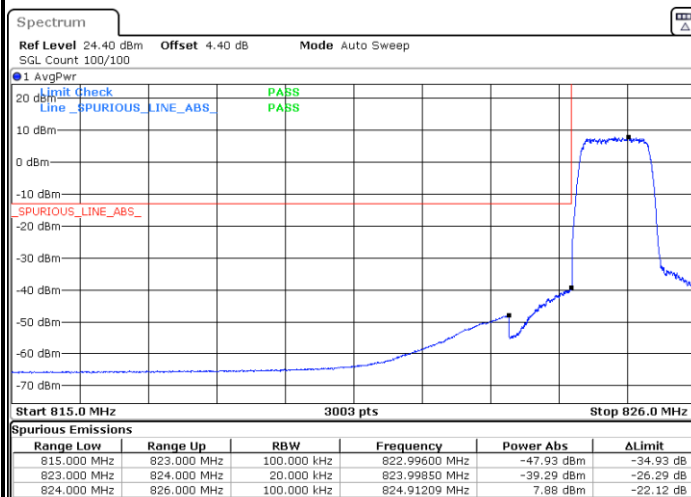
Lowest Band Edge / 1 RB



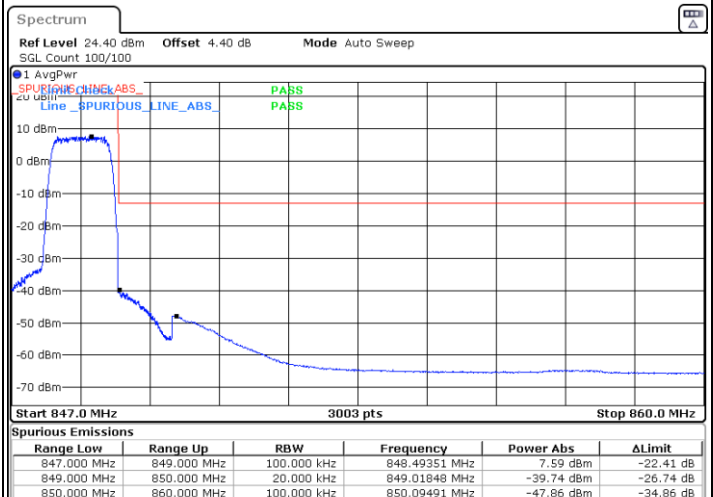
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



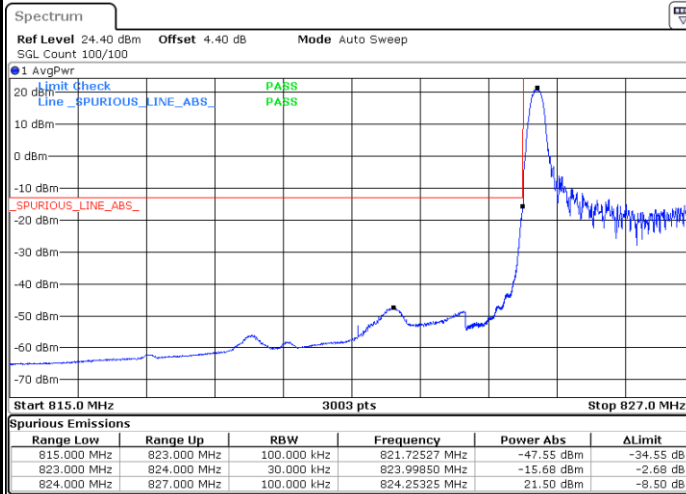
Highest Band Edge / Full RB



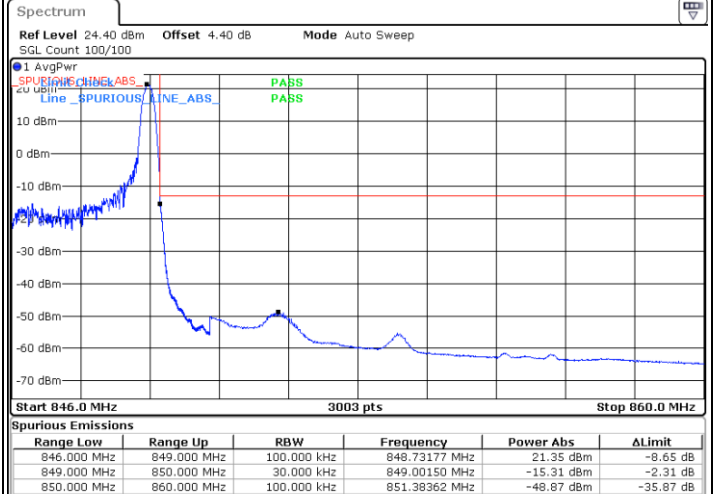


LTE Band 5 / 3MHz / QPSK

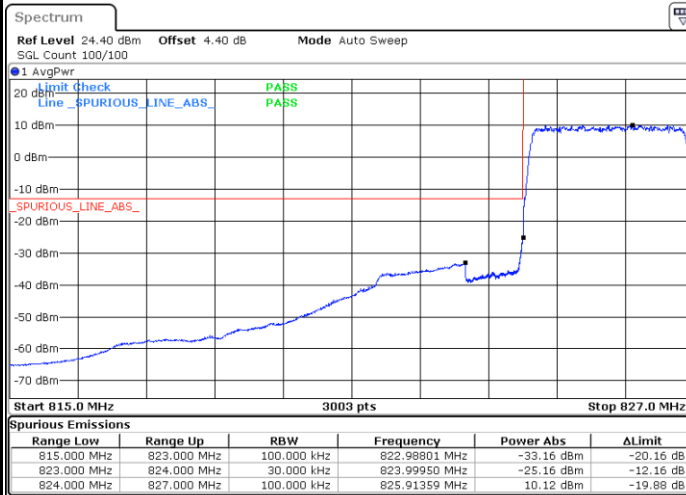
Lowest Band Edge / 1RB



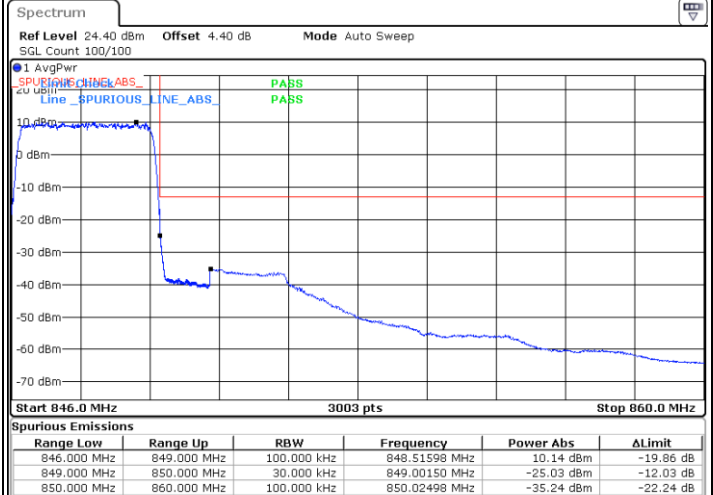
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



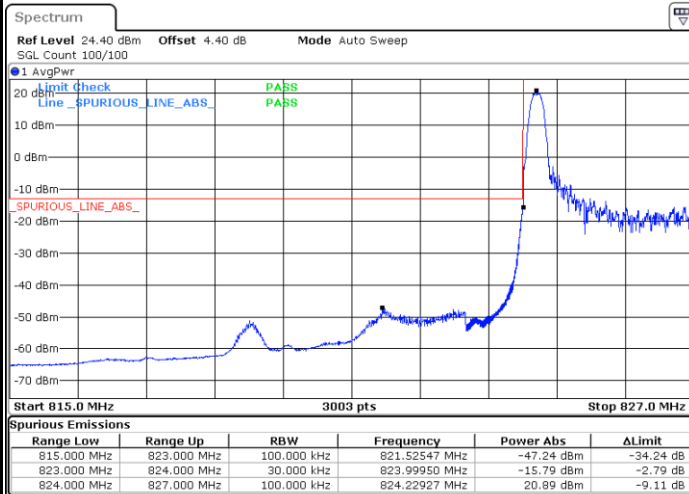
Highest Band Edge / Full RB



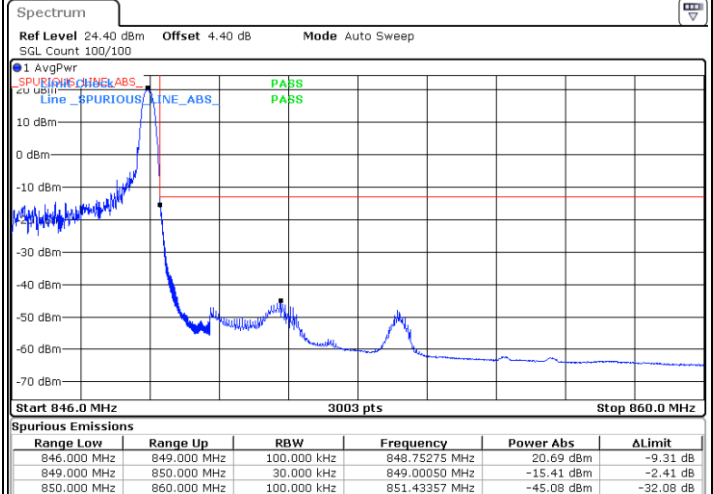


LTE Band 5 / 3MHz / 16QAM

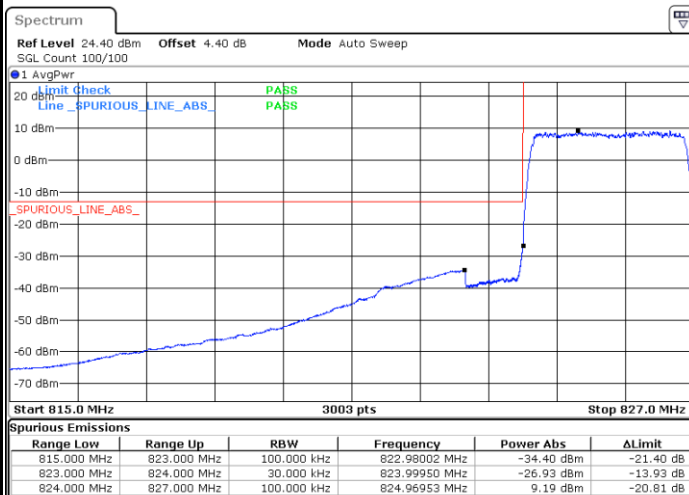
Lowest Band Edge / 1 RB



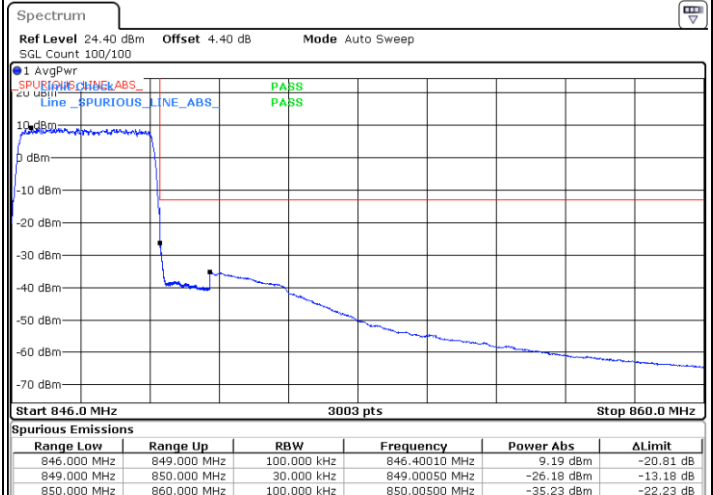
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



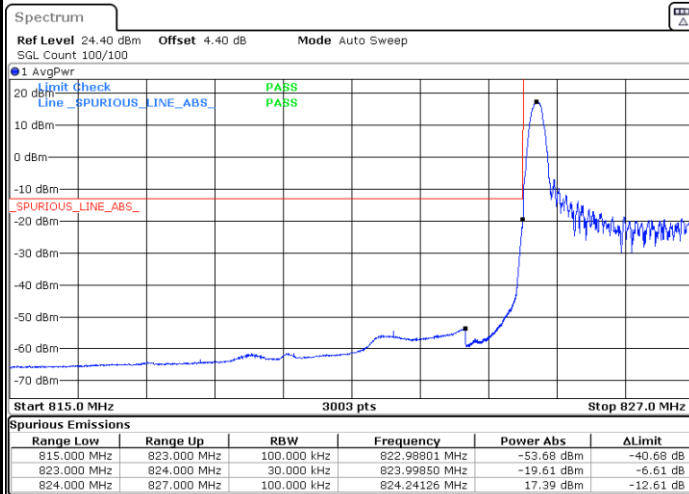
Highest Band Edge / Full RB





LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



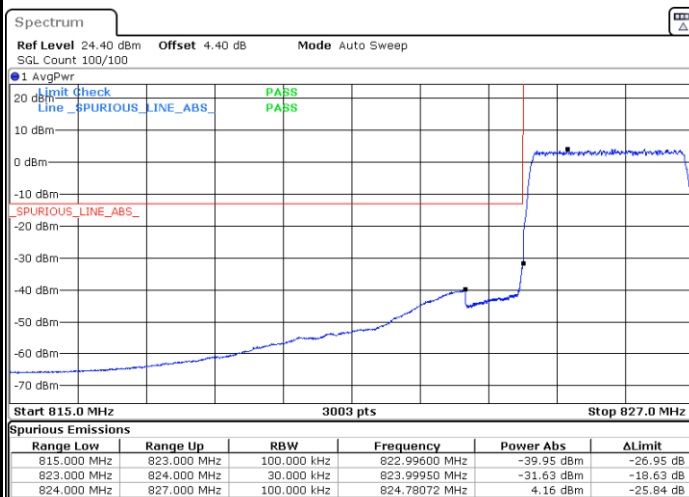
Date: 25.JAN.2022 03:03:47

Highest Band Edge / 1 RB



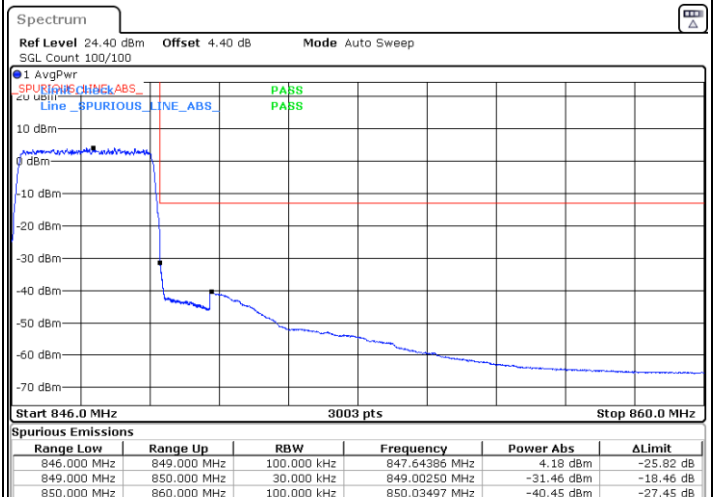
Date: 25.JAN.2022 03:07:33

Lowest Band Edge / Full RB



Date: 25.JAN.2022 03:04:59

Highest Band Edge / Full RB

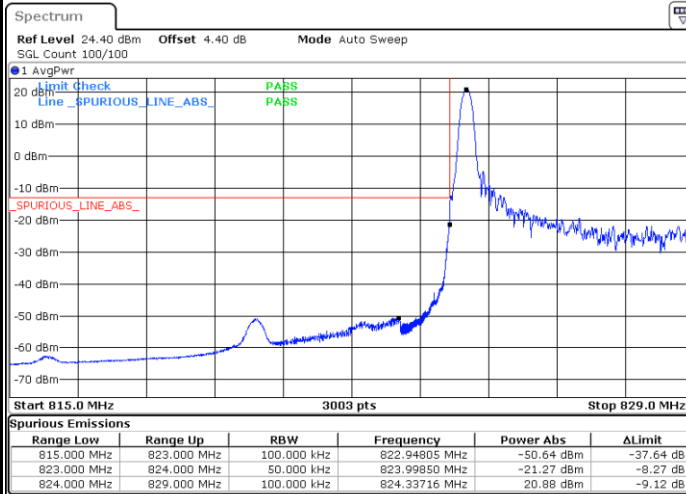


Date: 25.JAN.2022 03:06:12

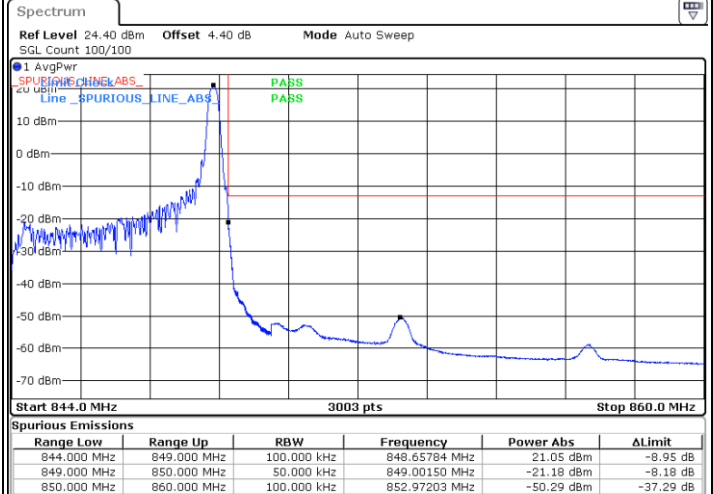


LTE Band 5 / 5MHz / QPSK

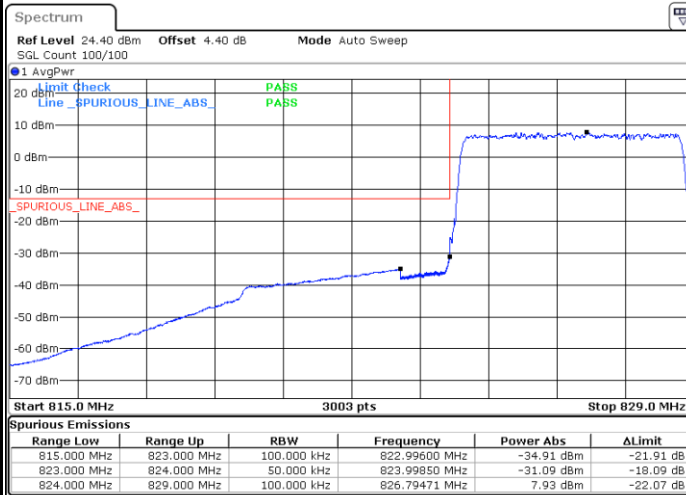
Lowest Band Edge / 1 RB



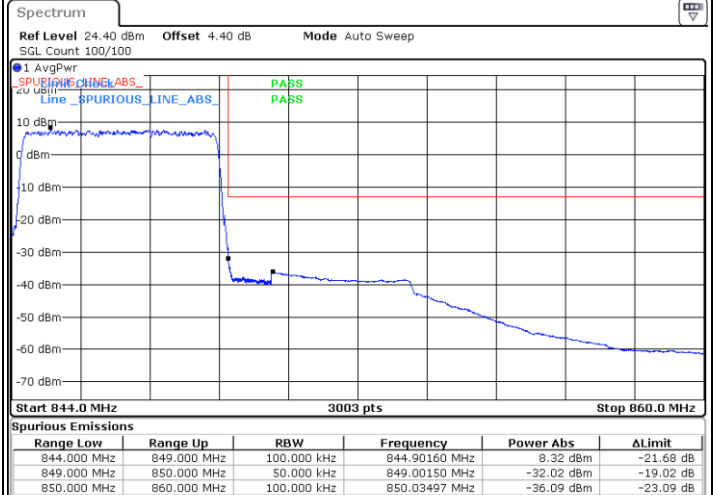
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



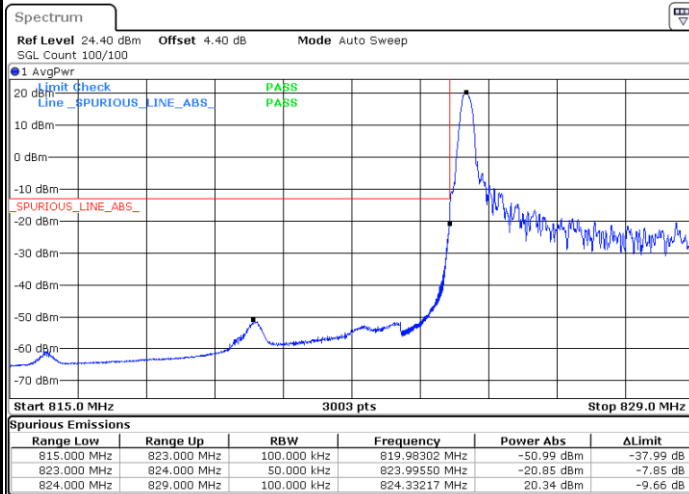
Highest Band Edge / Full RB



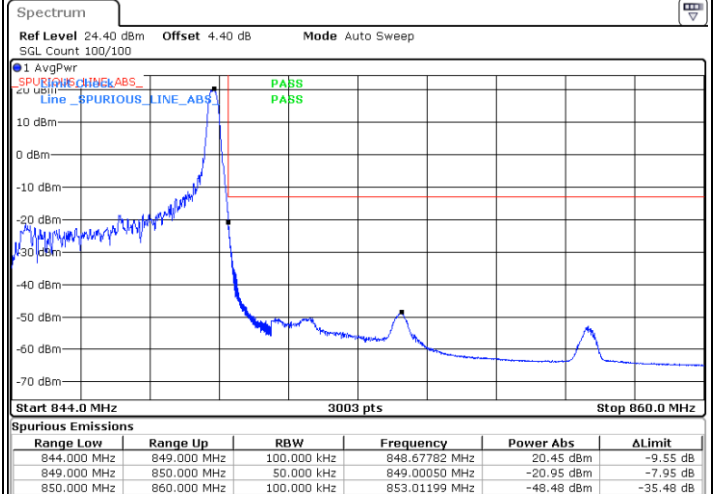


LTE Band 5 / 5MHz / 16QAM

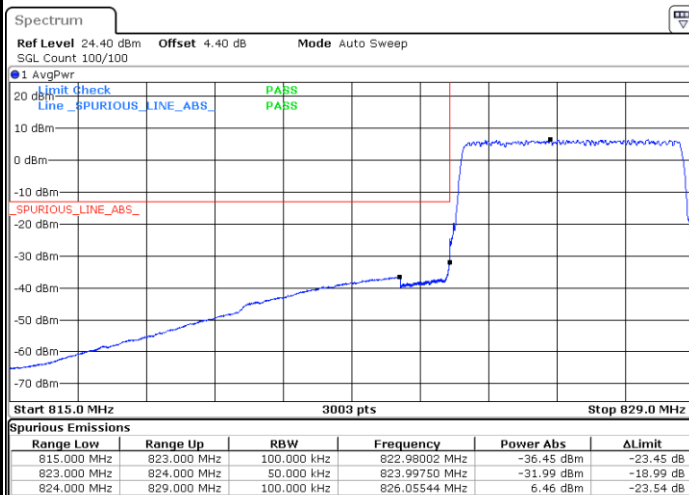
Lowest Band Edge / 1RB



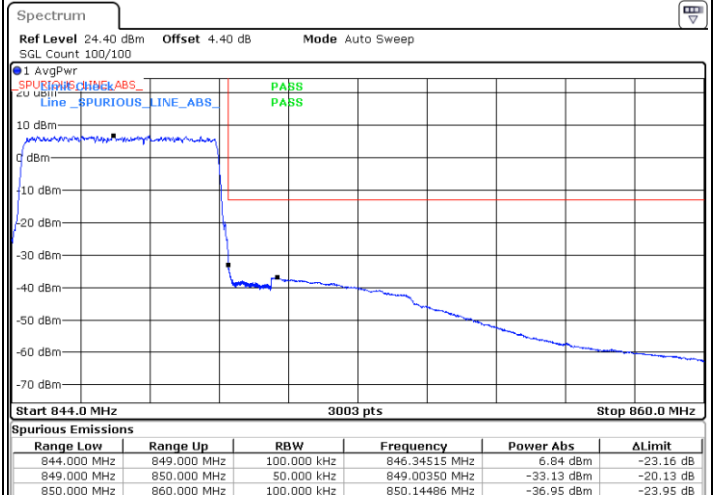
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



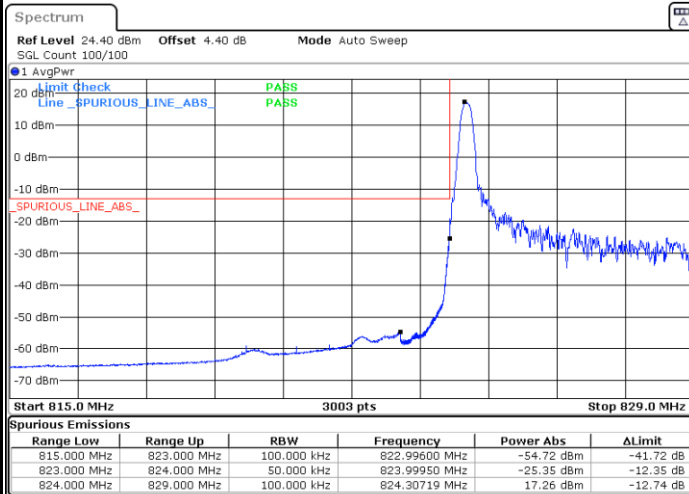
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / 64QAM

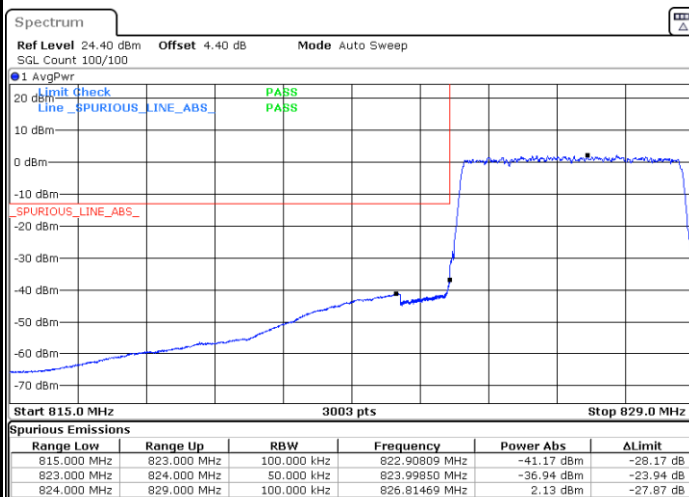
Lowest Band Edge / 1 RB



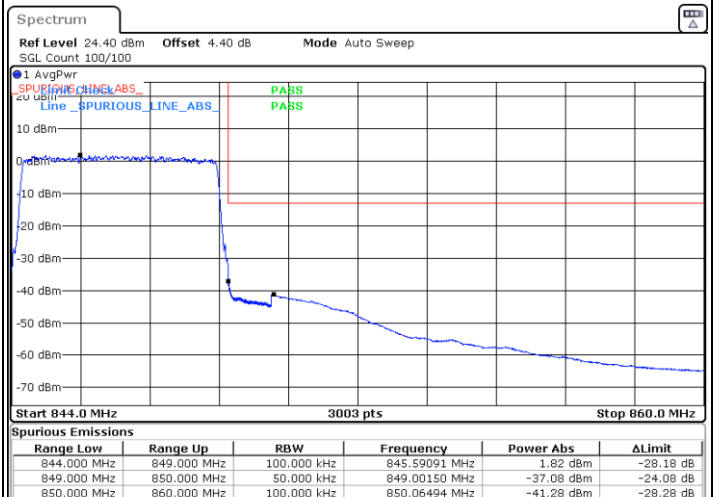
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



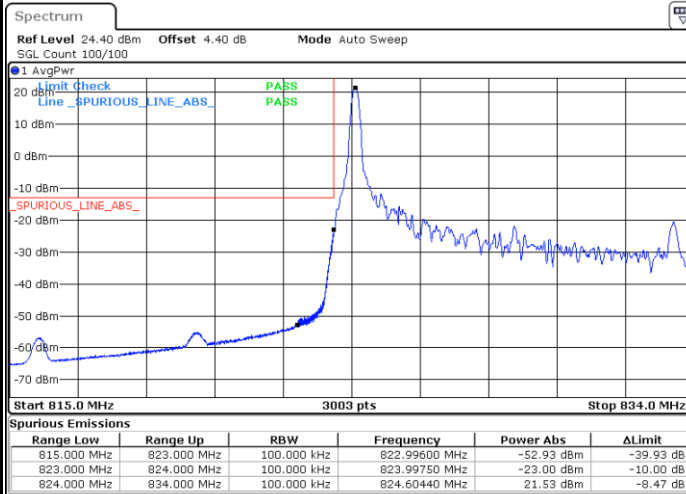
Highest Band Edge / Full RB



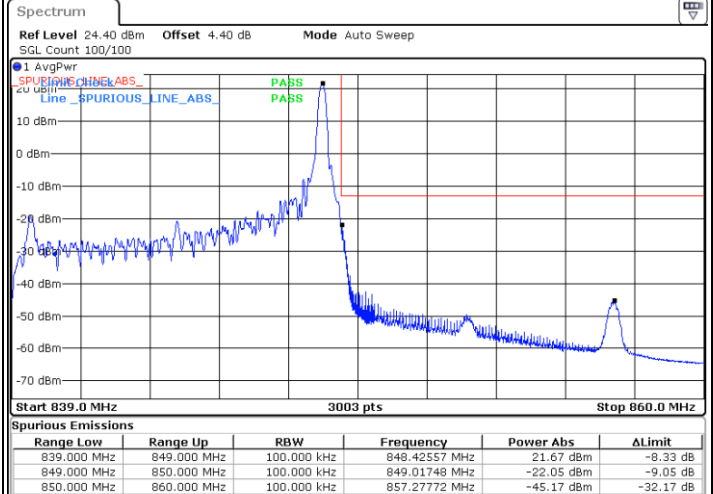


LTE Band 5 / 10MHz / QPSK

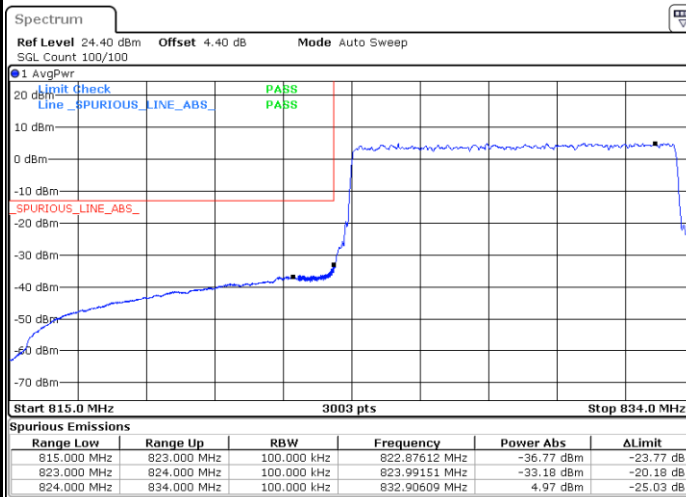
Lowest Band Edge / 1 RB



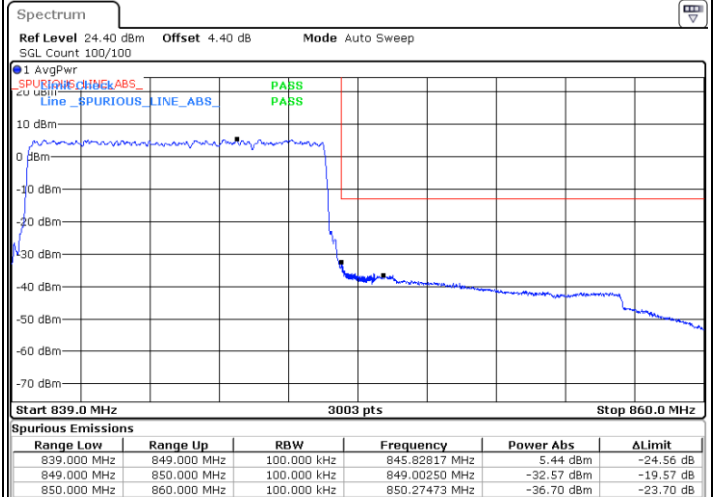
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



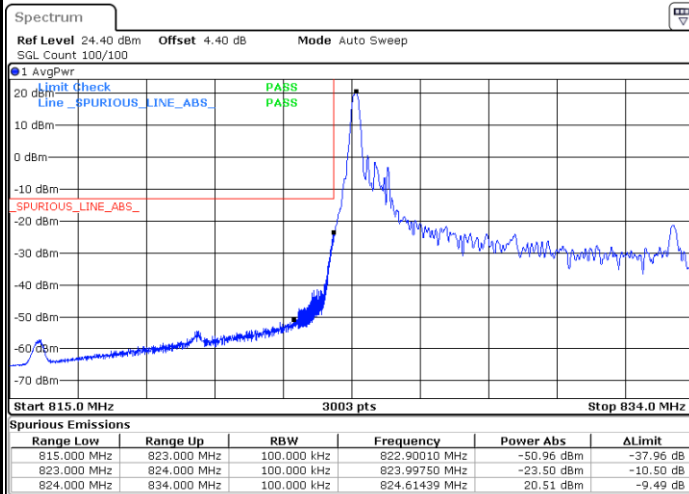
Highest Band Edge / Full RB



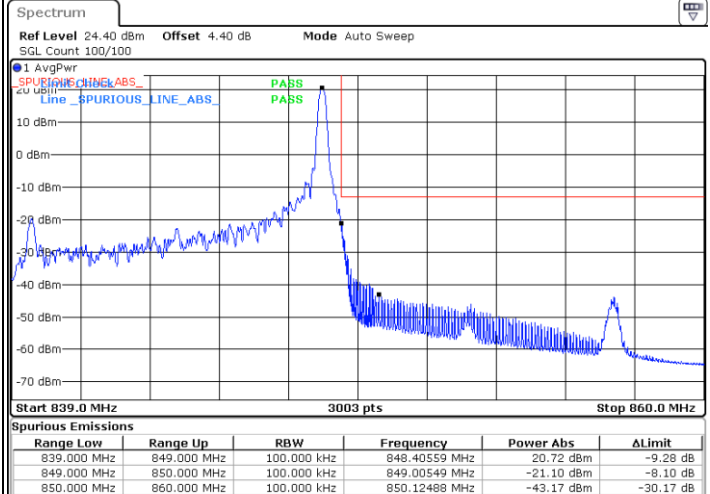


LTE Band 5 / 10MHz / 16QAM

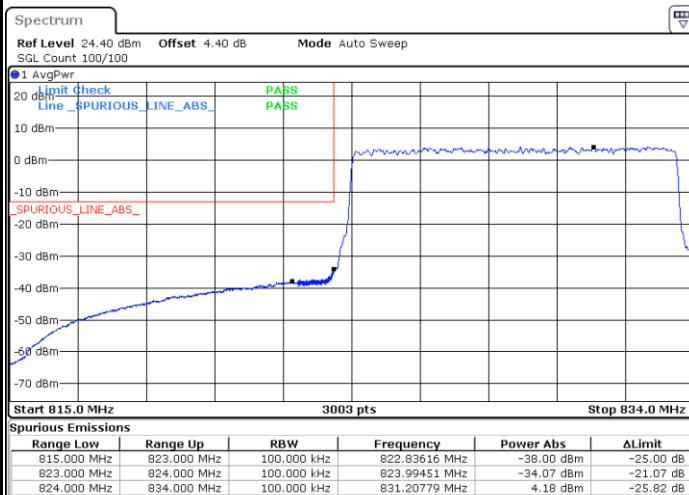
Lowest Band Edge / 1 RB



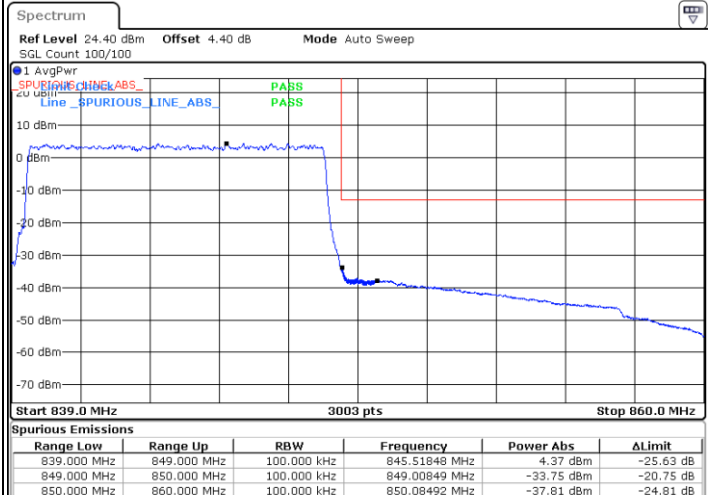
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



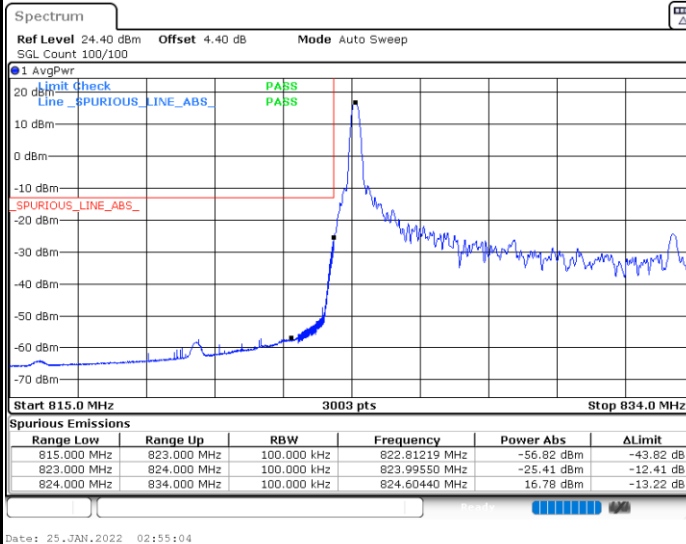
Highest Band Edge / Full RB



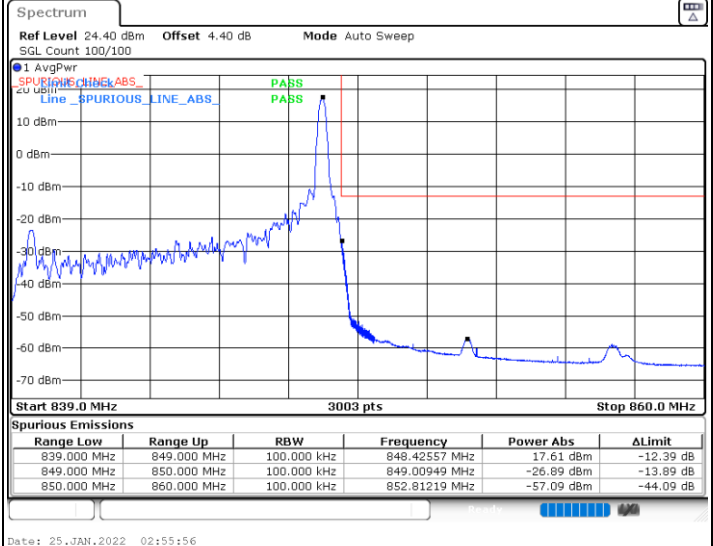


LTE Band 5 / 10MHz / 64QAM

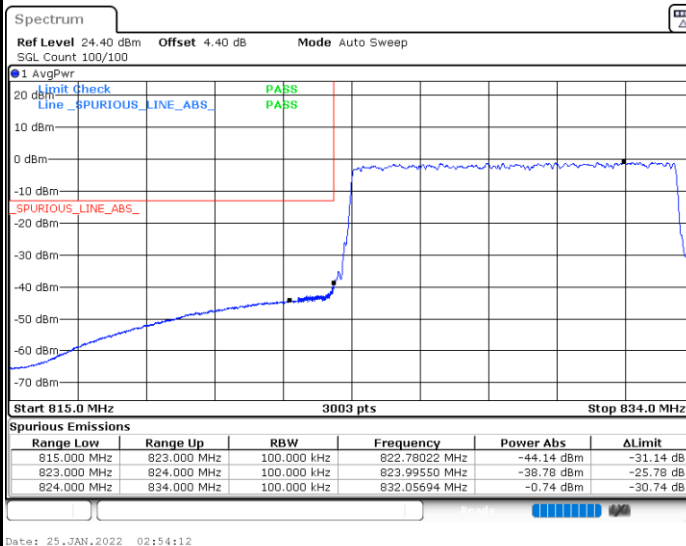
Lowest Band Edge / 1 RB



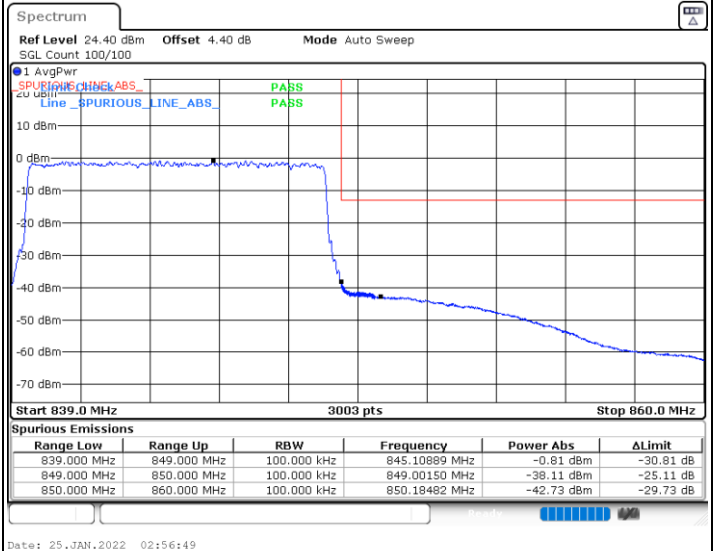
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

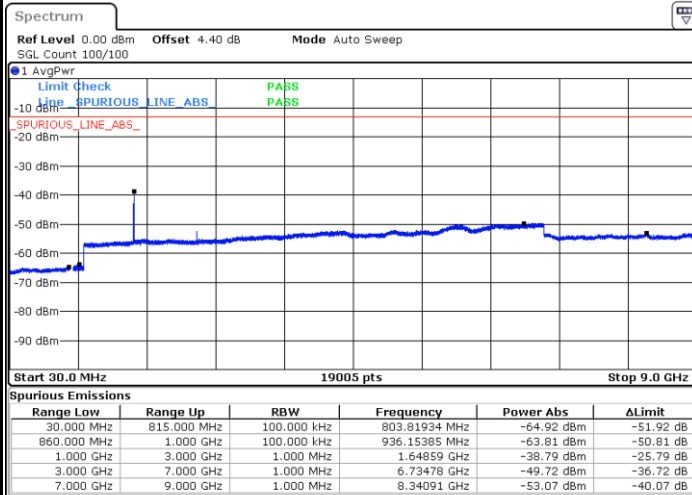




Conducted Spurious Emission

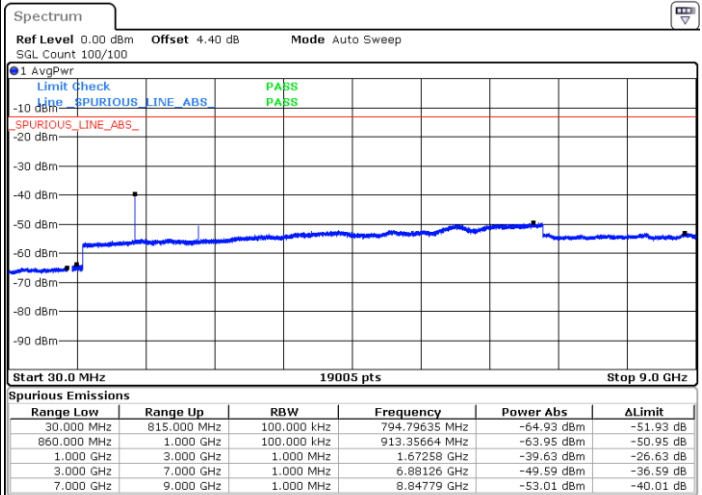
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



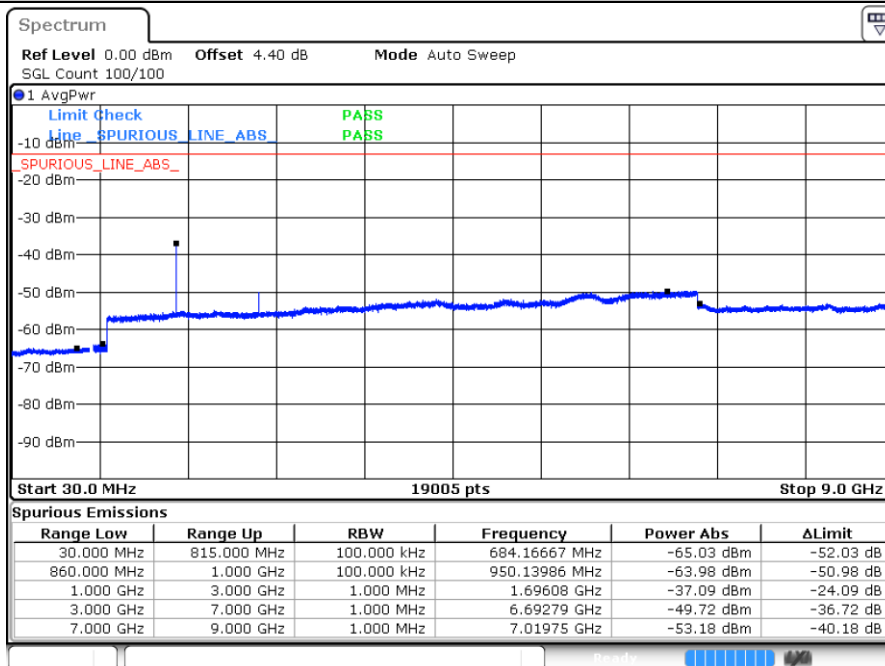
Date: 22.DEC.2021 08:27:11

Middle Channel / QPSK



Date: 22.DEC.2021 08:28:36

Highest Channel / QPSK



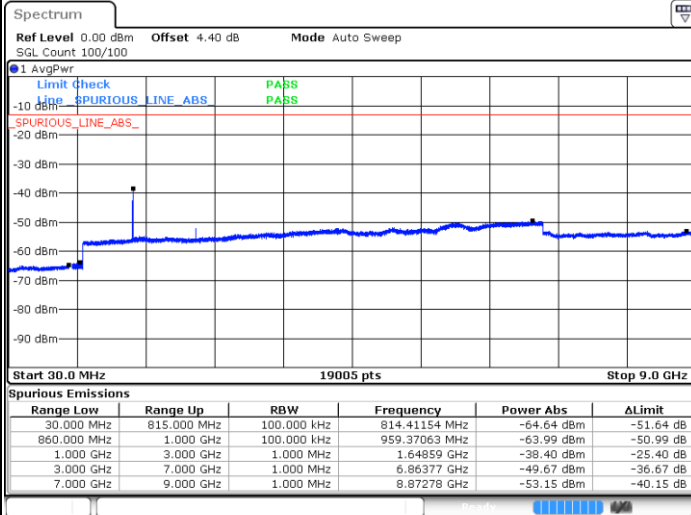
Date: 22.DEC.2021 08:30:01



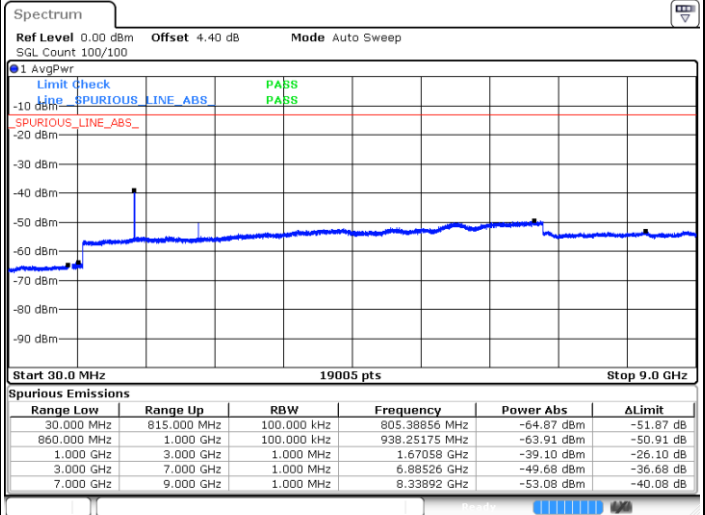
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

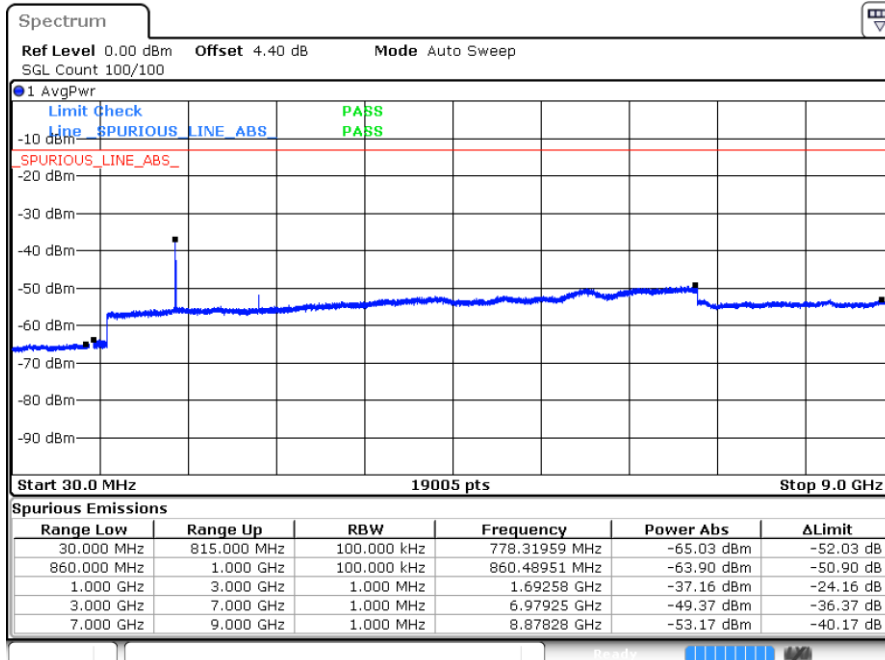


Date: 22 DEC. 2021 07:57:25



Date: 22 DEC. 2021 07:58:50

Highest Channel / QPSK

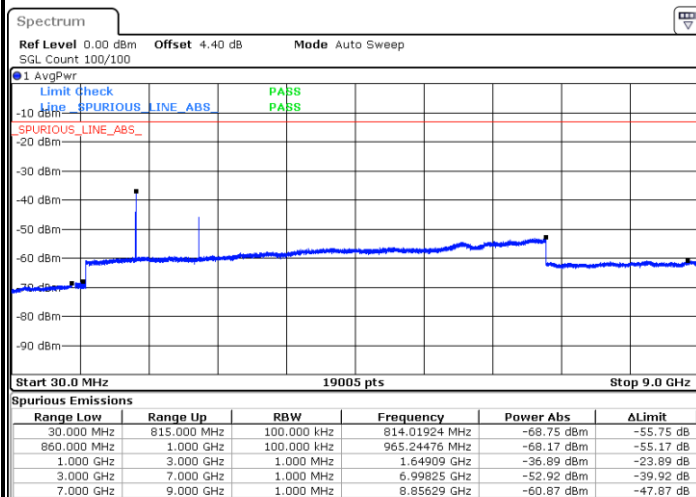


Date: 22 DEC. 2021 08:00:15



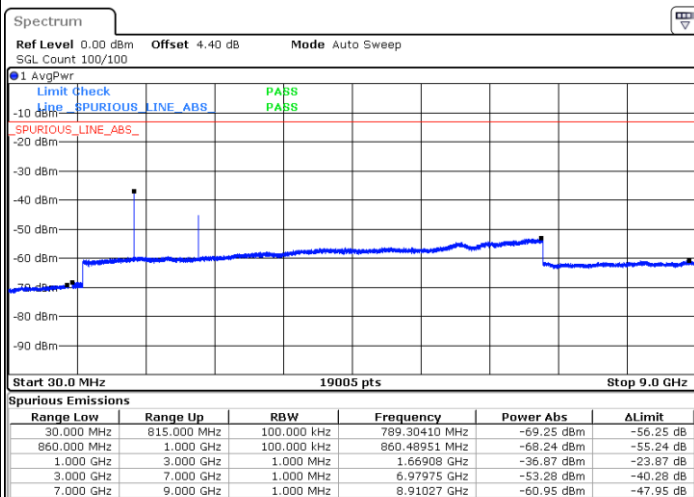
LTE Band 5 / 5MHz

Lowest Channel / QPSK



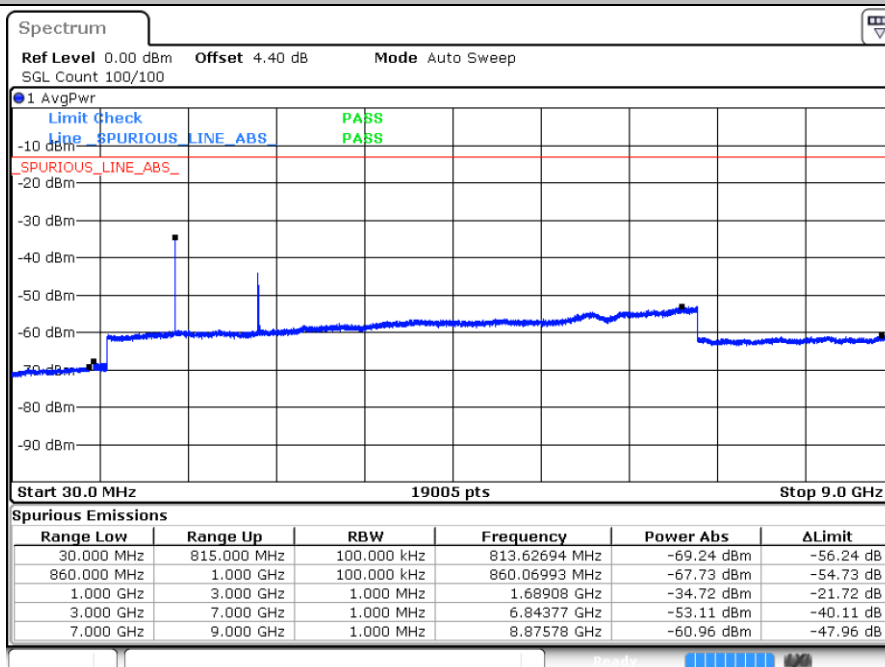
Date: 22 DEC. 2021 08:01:40

Middle Channel / QPSK



Date: 22 DEC. 2021 08:03:06

Highest Channel / QPSK

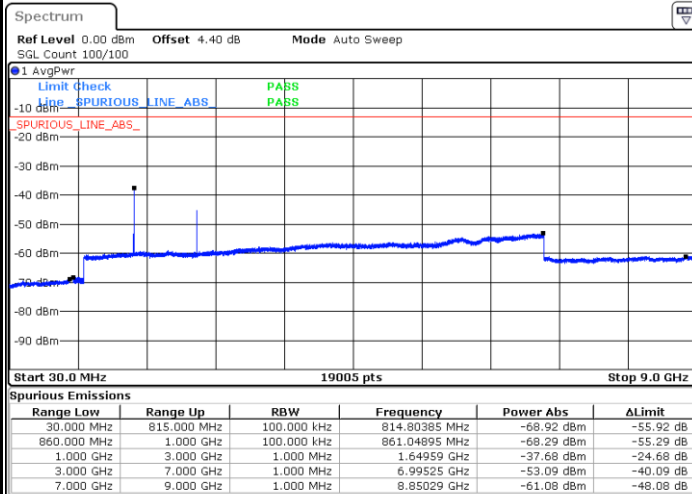


Date: 22 DEC. 2021 08:04:31



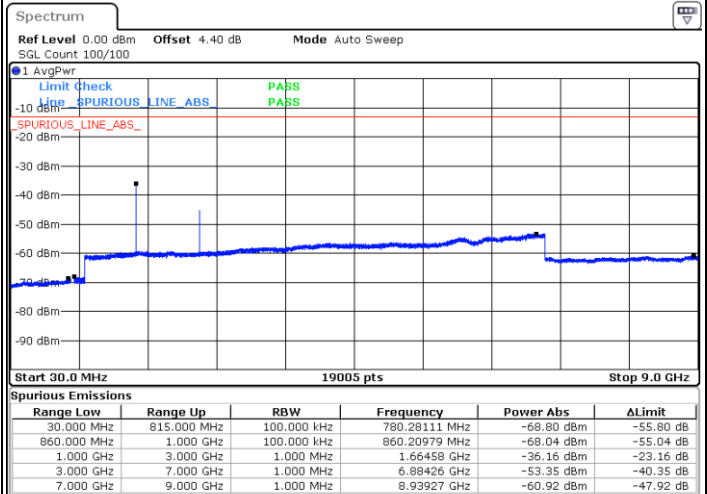
LTE Band 5 / 10MHz

Lowest Channel / QPSK



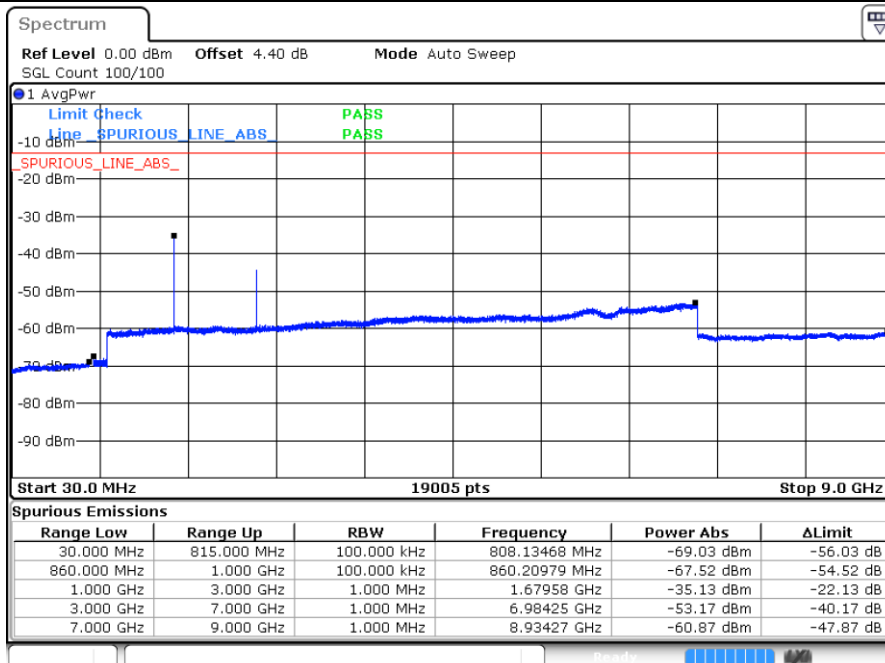
Date: 22 DEC. 2021 08:06:30

Middle Channel / QPSK



Date: 22 DEC. 2021 08:07:55

Highest Channel / QPSK



Date: 22 DEC. 2021 08:09:20

**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0073	
20	Battery End Point	0.0005	

Note:

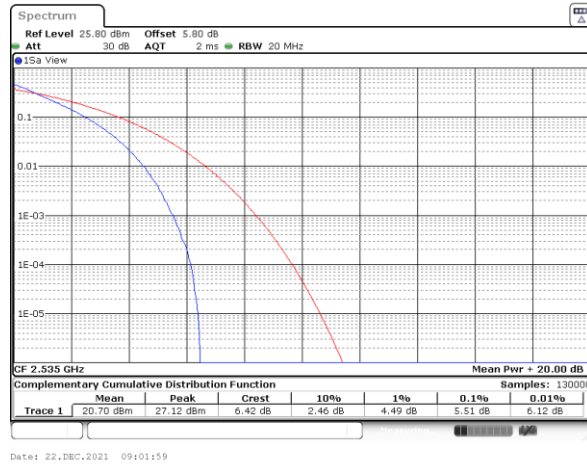
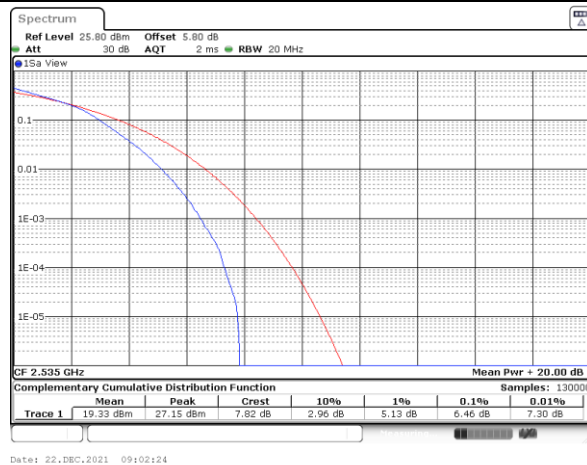
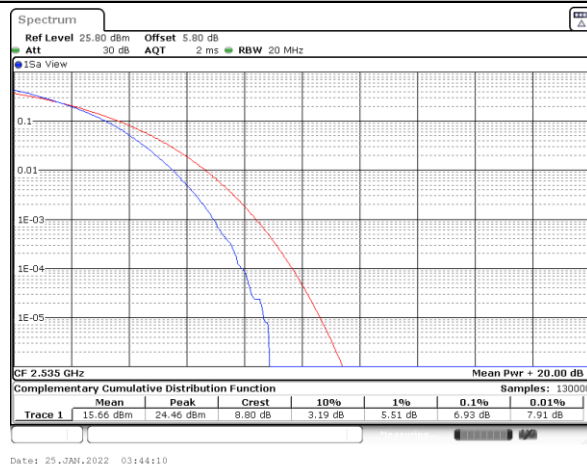
1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

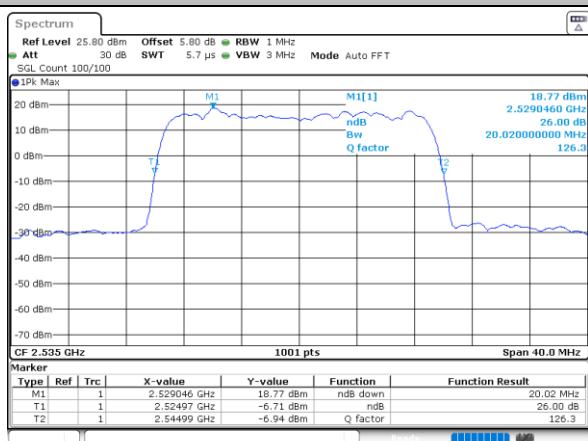
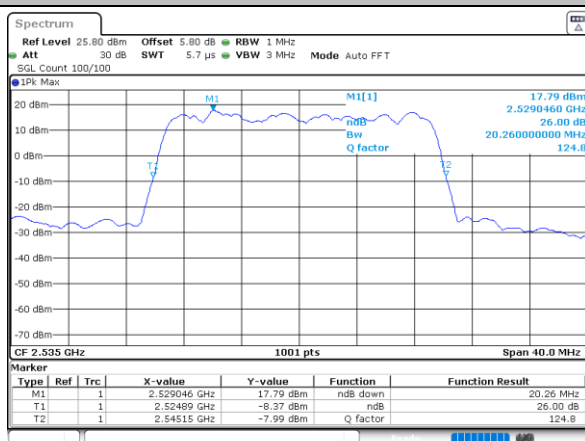
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.51	6.46	6.93	PASS

LTE Band 7 / 20MHz
Middle Channel / Full RB/ QPSK

Middle Channel / Full RB/ 16QAM

Middle Channel / Full RB/ 64QAM


**26dB Bandwidth**

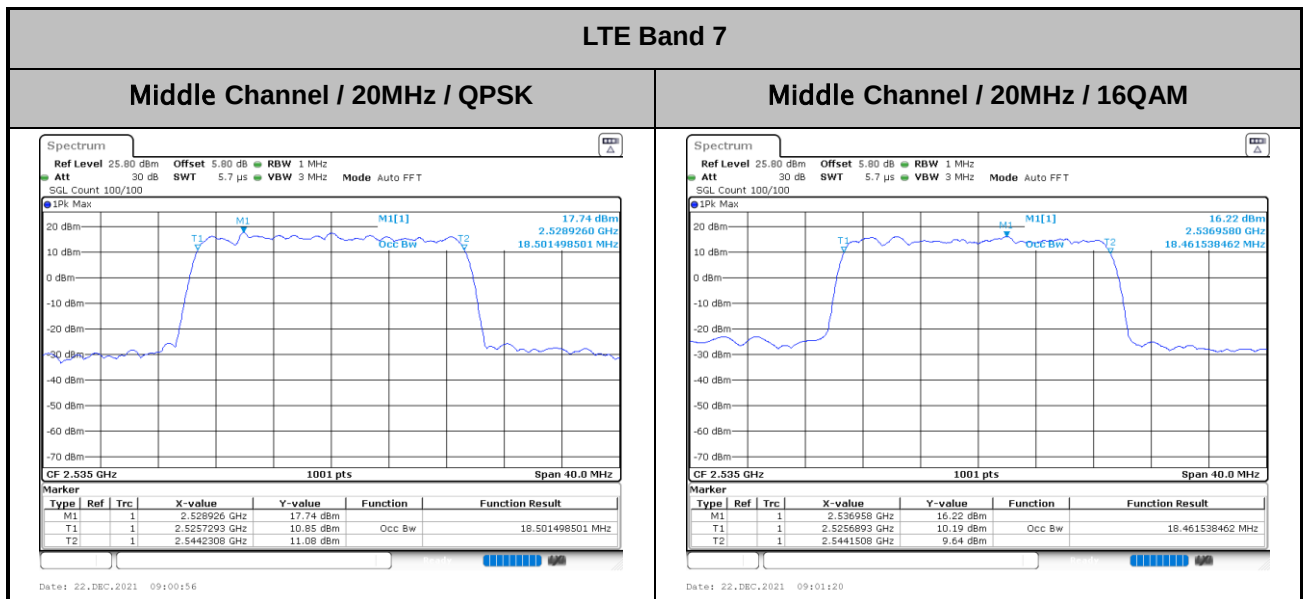
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.02	20.26

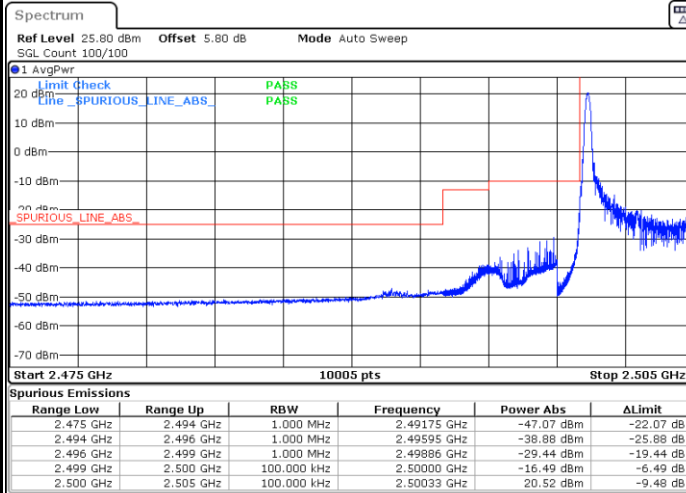
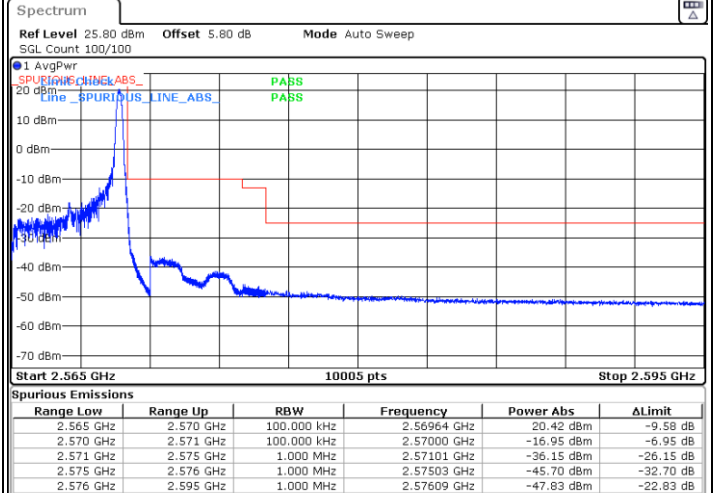
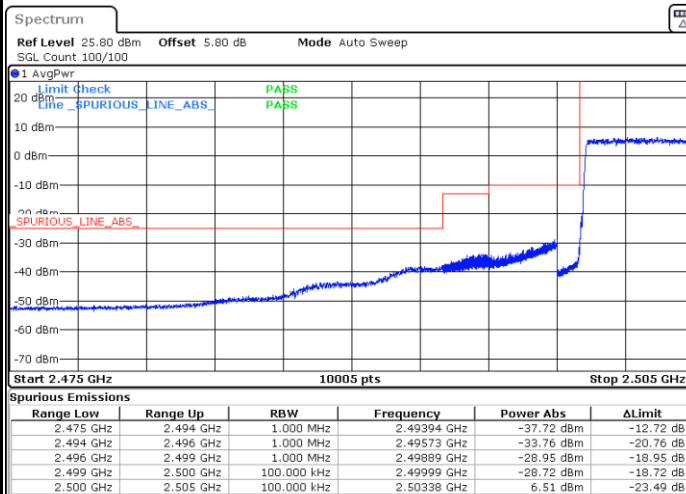
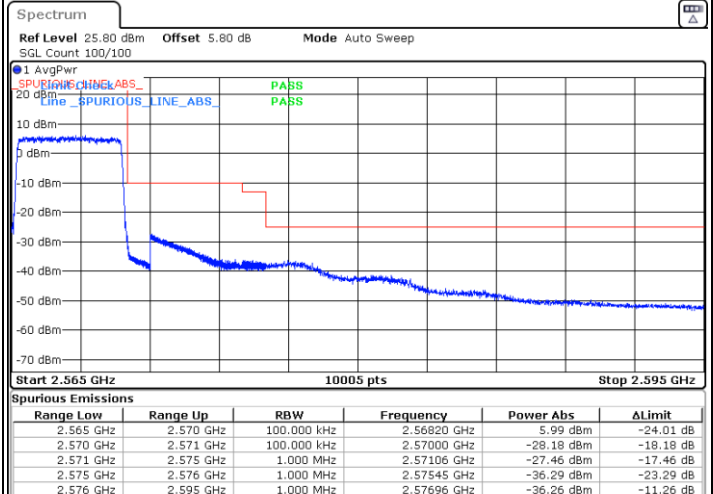
LTE Band 7**Middle Channel / 20MHz / QPSK****Middle Channel / 20MHz / 16QAM**



Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.50	18.46

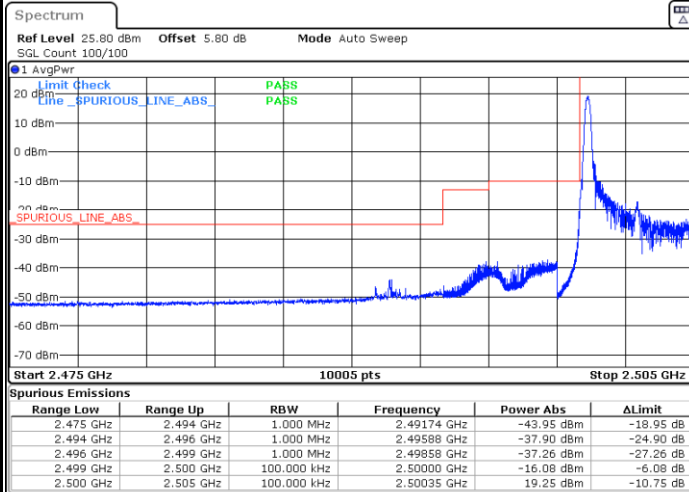


**Conducted Band Edge****LTE Band 7 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

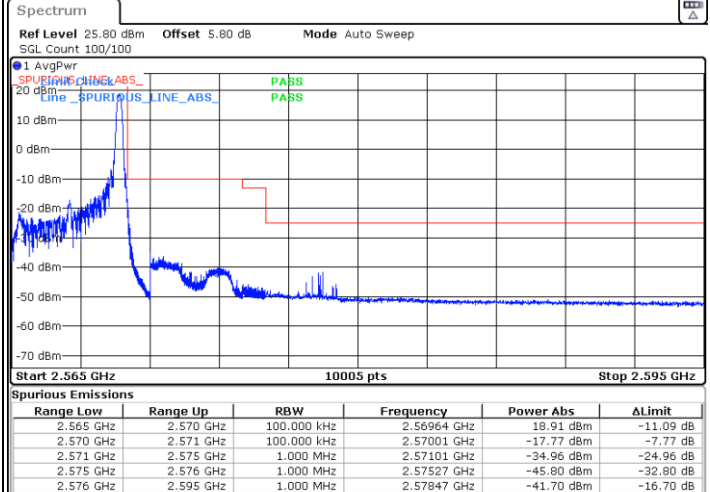


LTE Band 7 / 5MHz / 16QAM

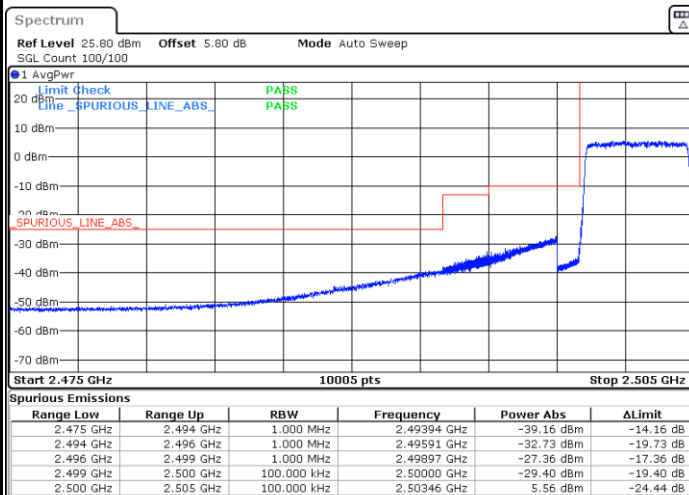
Lowest Band Edge / 1RB



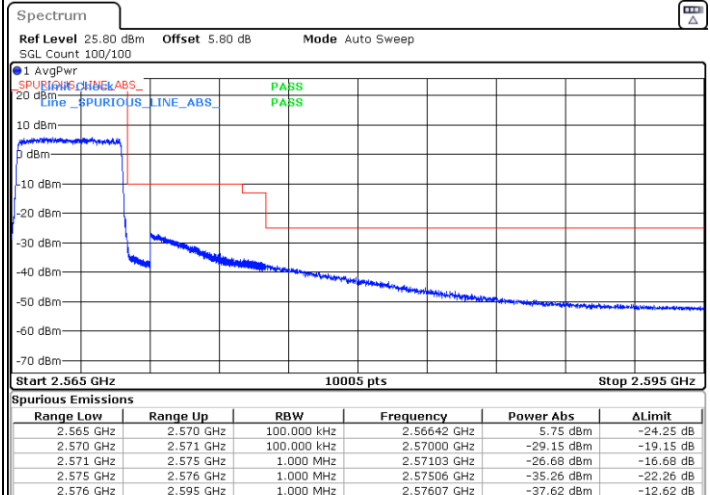
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



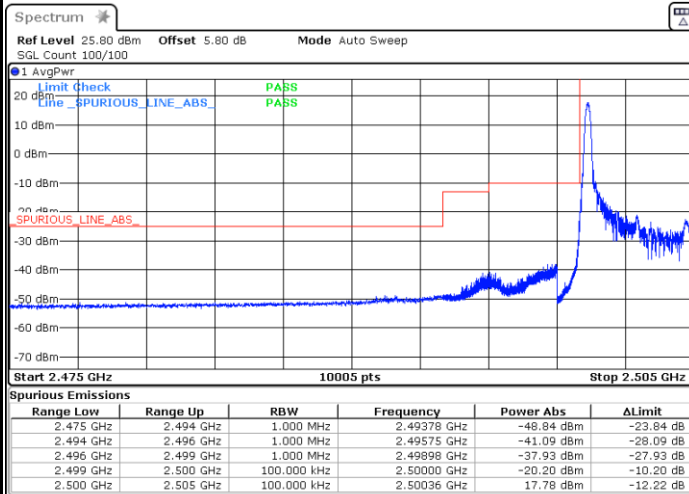
Highest Band Edge / Full RB



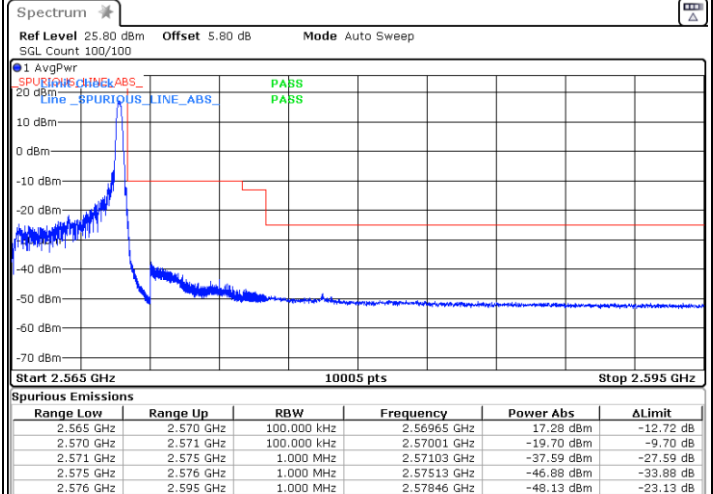


LTE Band 7 / 5MHz / 64QAM

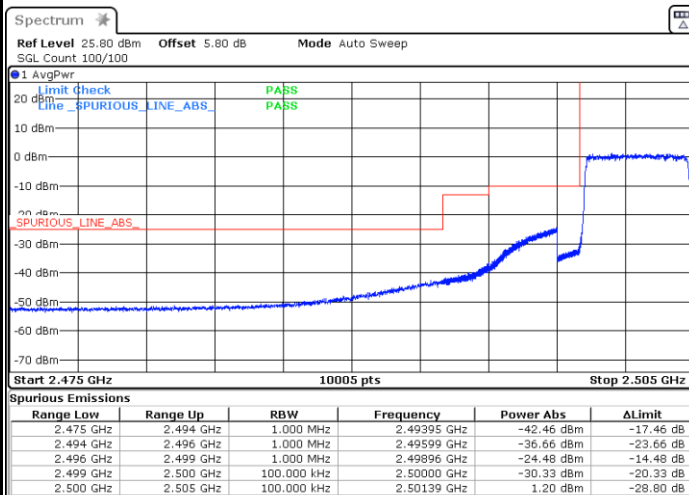
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

