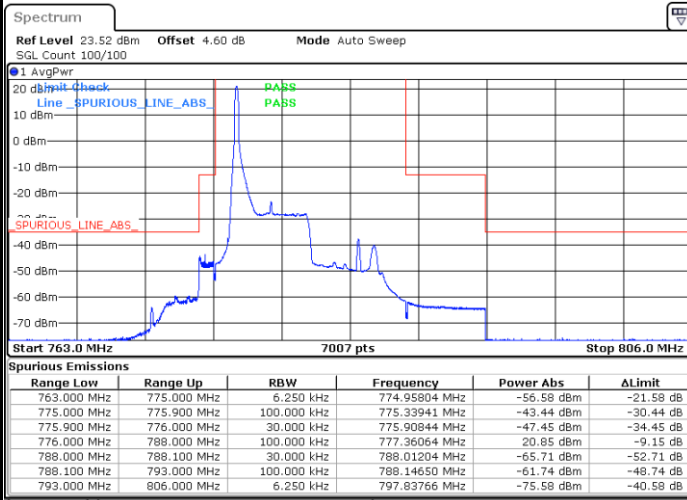




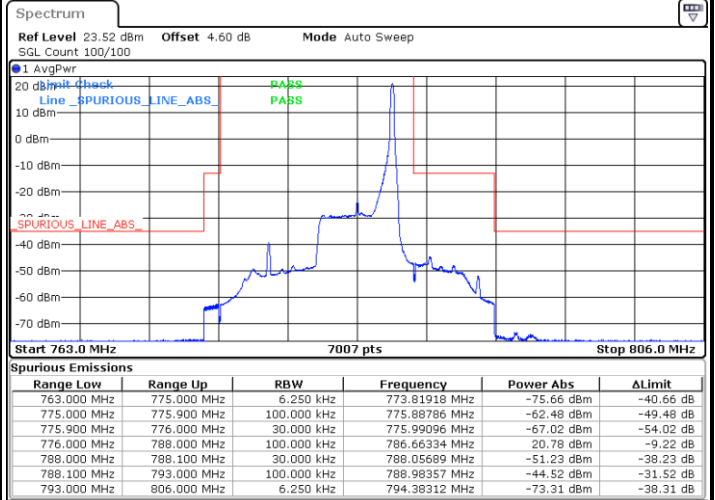
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



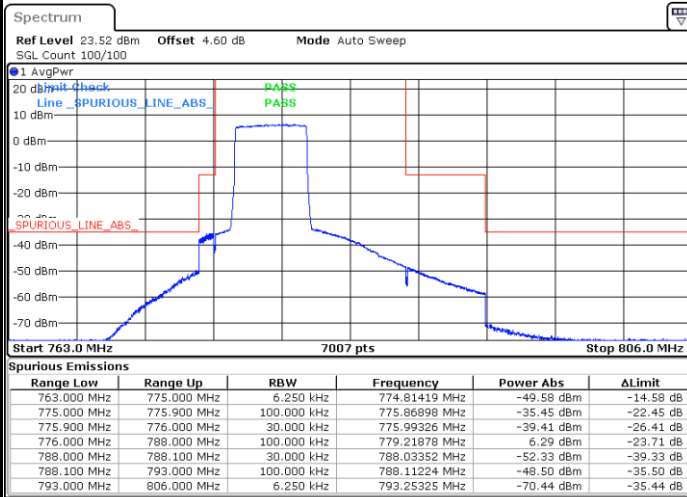
Date: 7 DEC.2021 09:41:44

Highest Band Edge / 1 RB



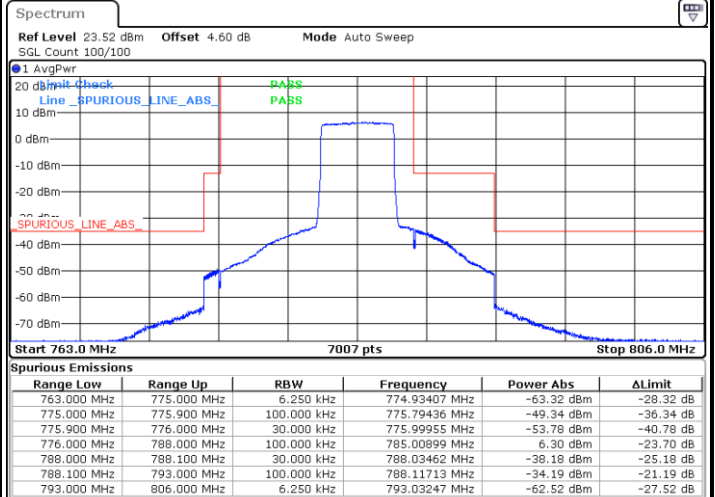
Date: 7 DEC.2021 09:56:23

Lowest Band Edge / Full RB



Date: 7 DEC.2021 09:43:37

Highest Band Edge / Full RB

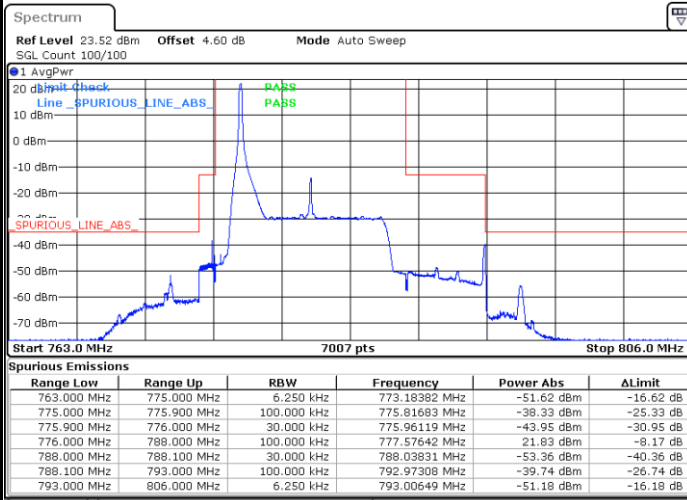


Date: 7 DEC.2021 09:58:15



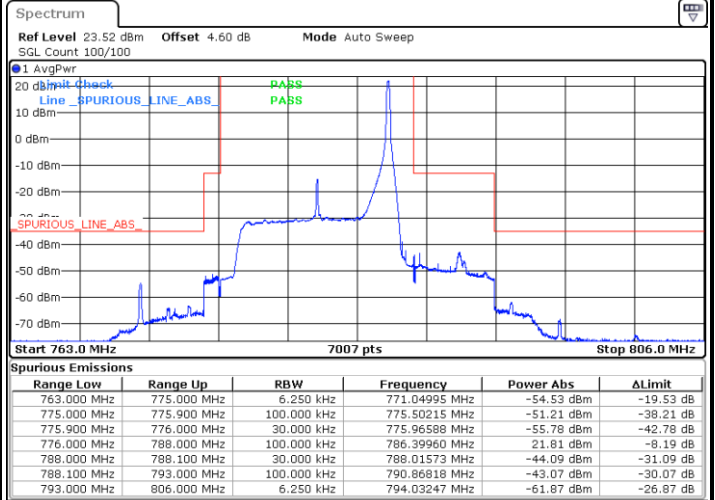
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



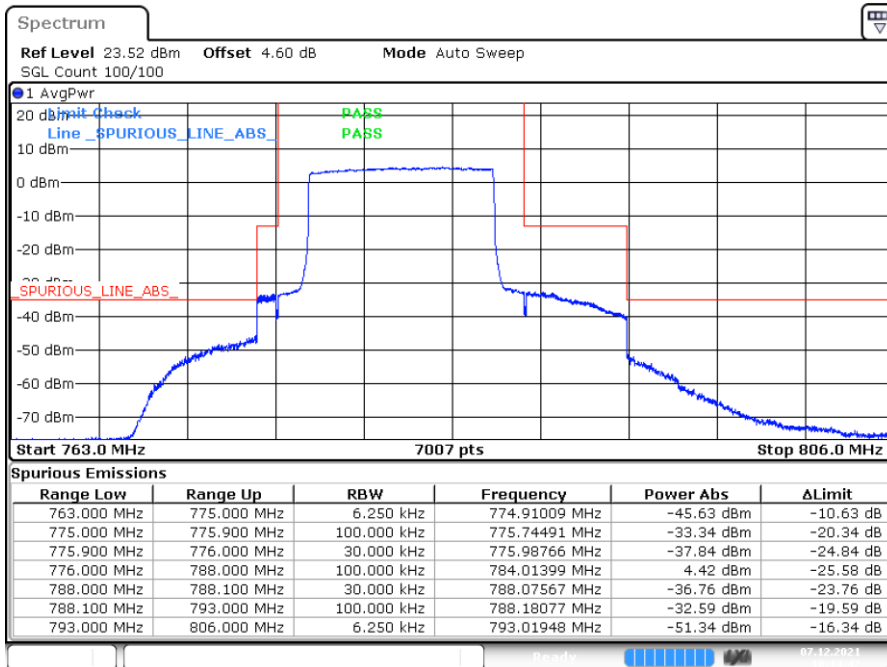
Date: 7 DEC 2021 10:05:24

middle Band Edge / 1 RB



Date: 7 DEC 2021 10:16:34

Middle Band Edge / Full RB

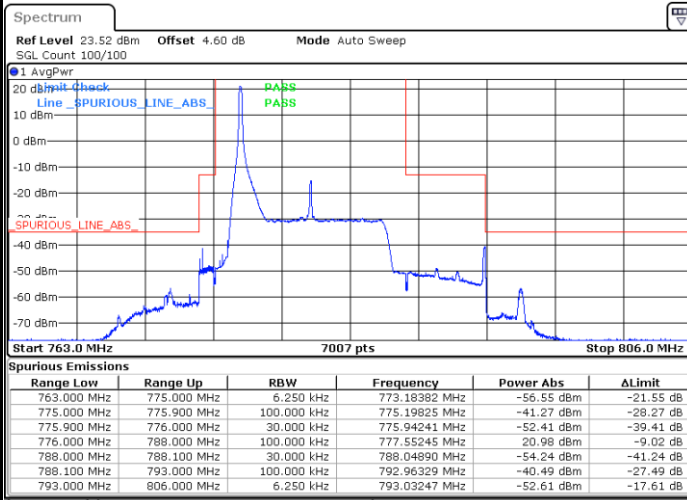


Date: 7 DEC 2021 10:14:43



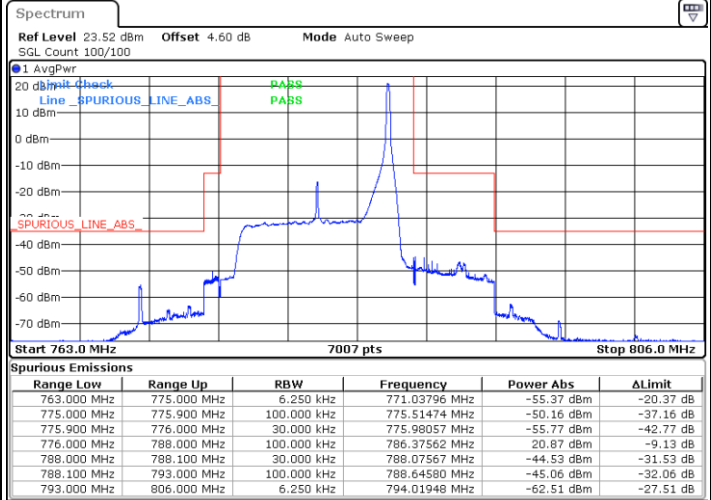
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



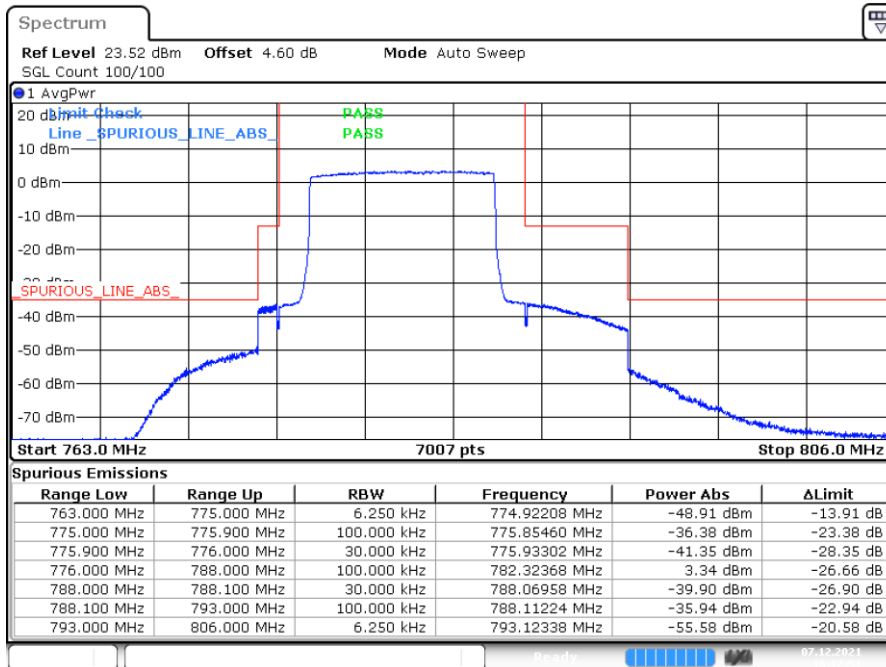
Date: 7 DEC 2021 10:07:16

middle Band Edge / 1 RB



Date: 7 DEC 2021 10:18:26

middle Band Edge / Full RB

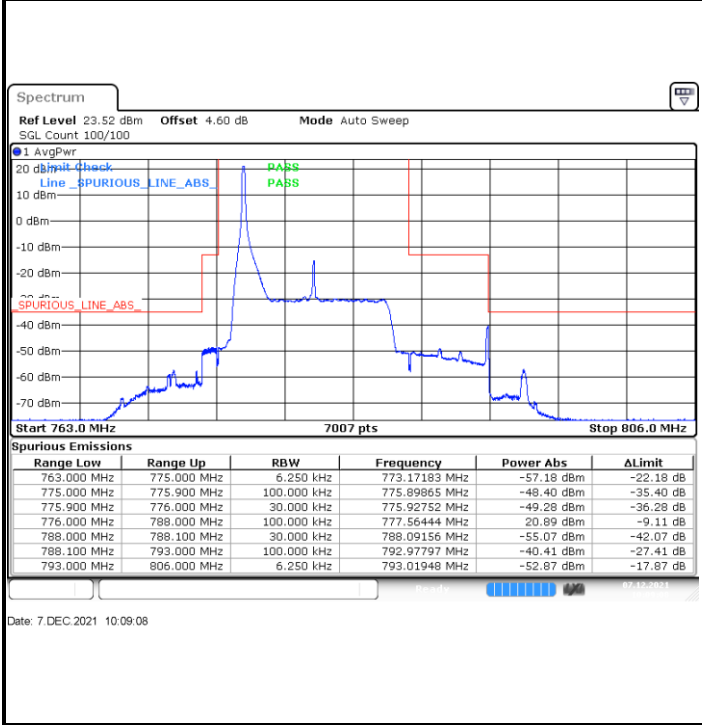


Date: 7 DEC 2021 10:12:51

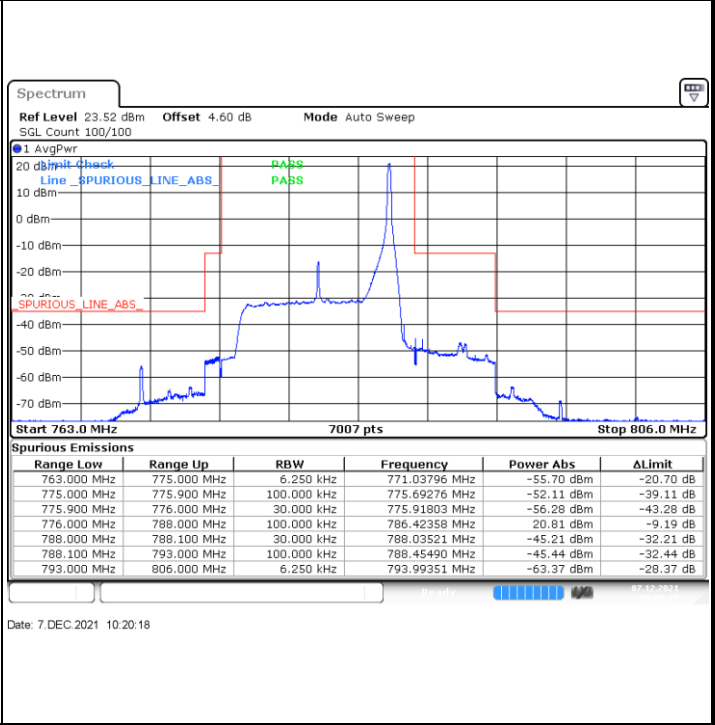


LTE Band 13 / 10MHz / 64QAM

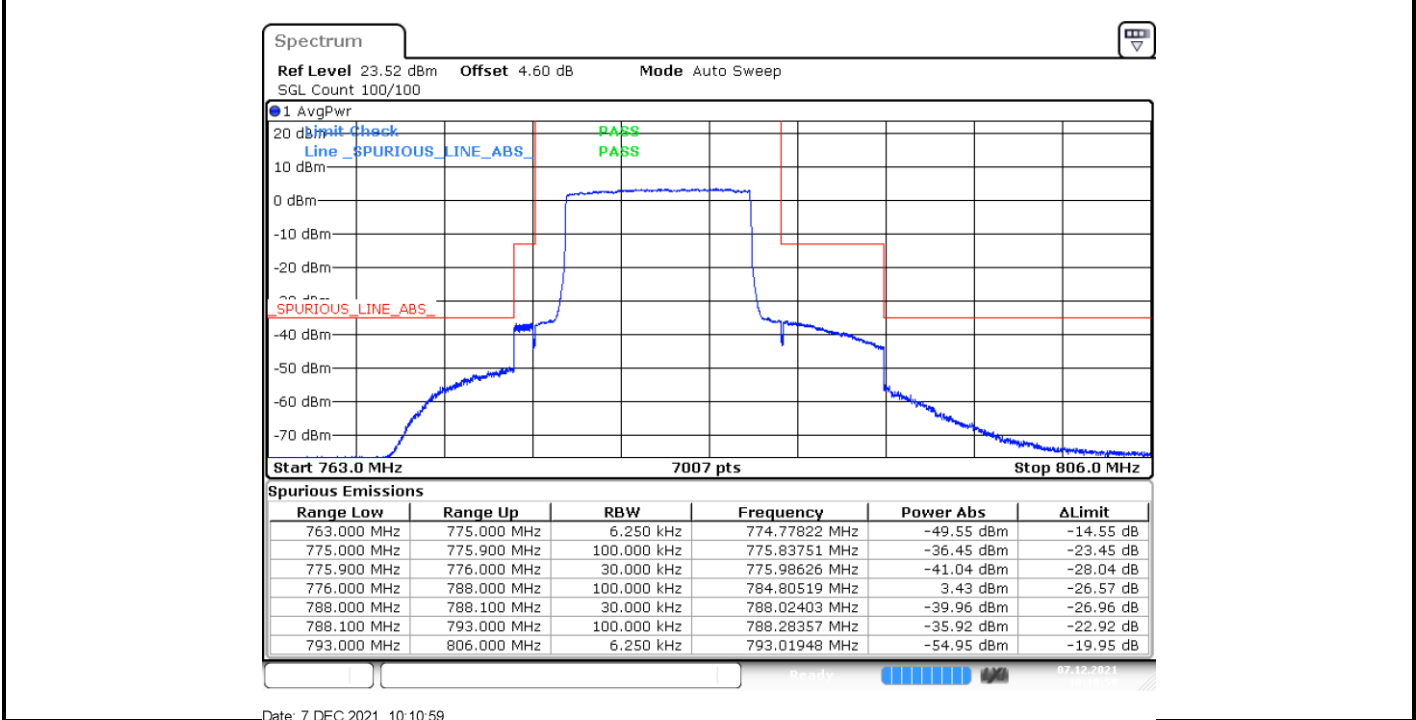
middle Band Edge / 1 RB



middle Band Edge / 1 RB

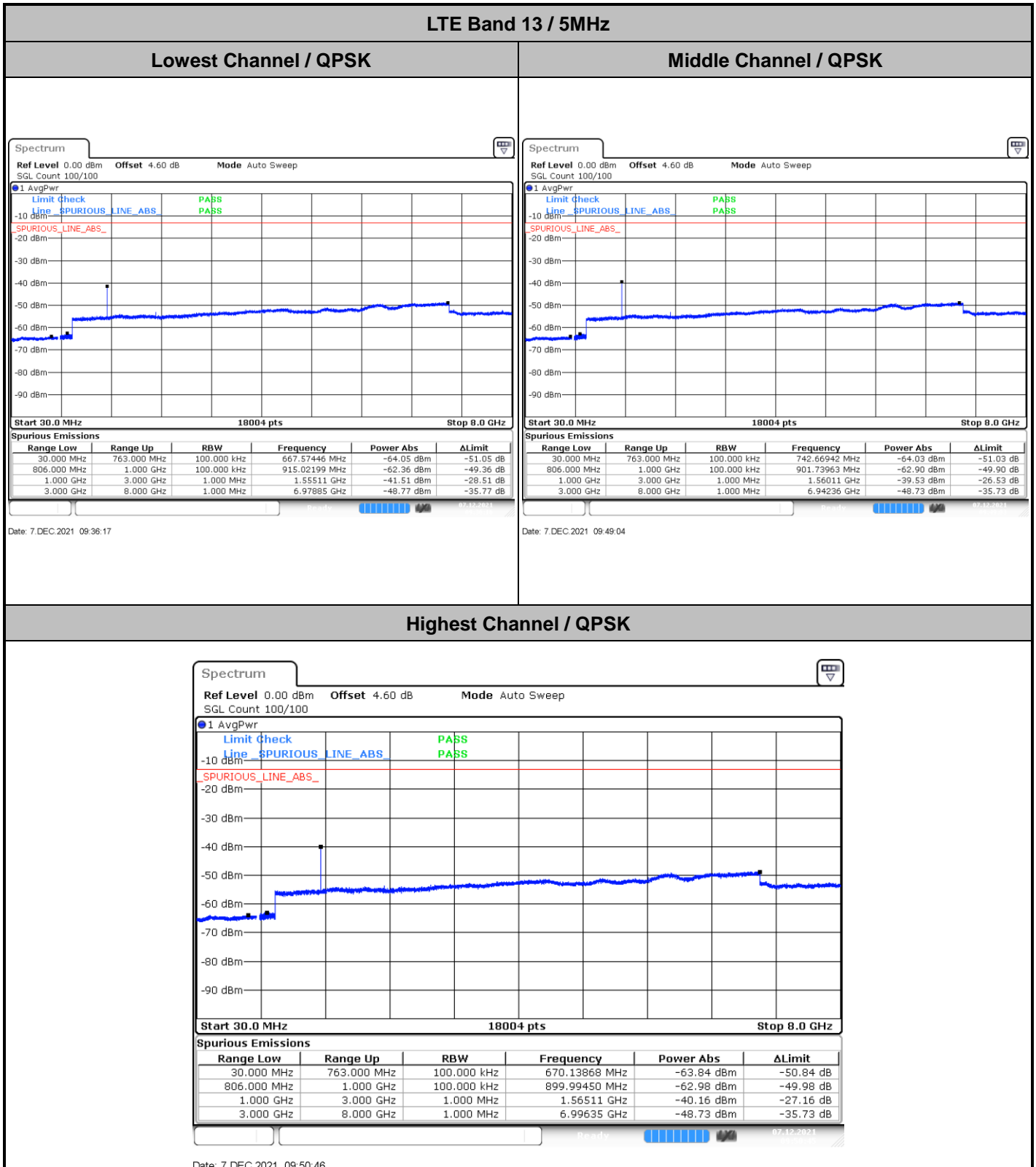


middle Band Edge / Full RB





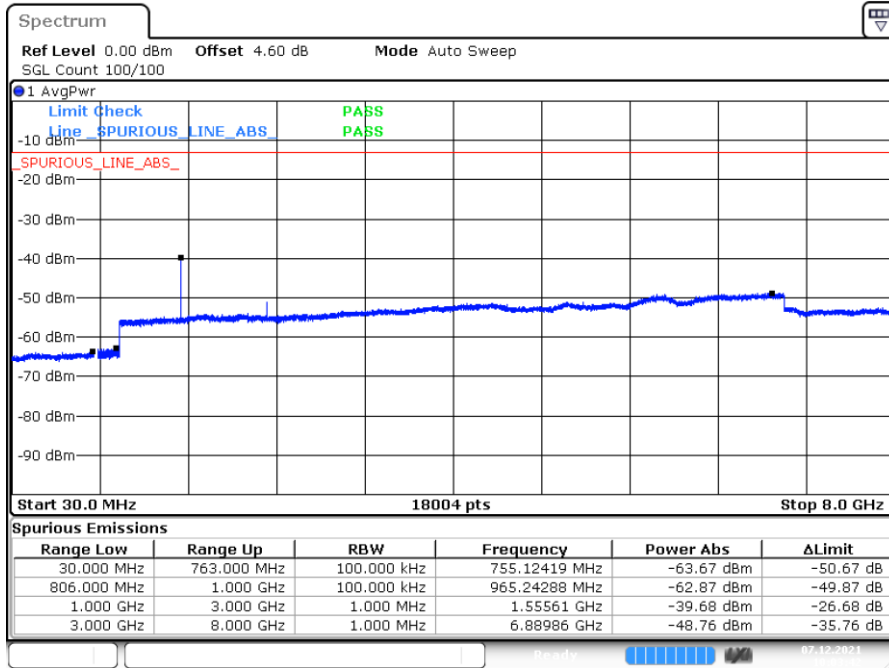
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 7 DEC 2021 10:03:42



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	0.0015	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0009	

Note:

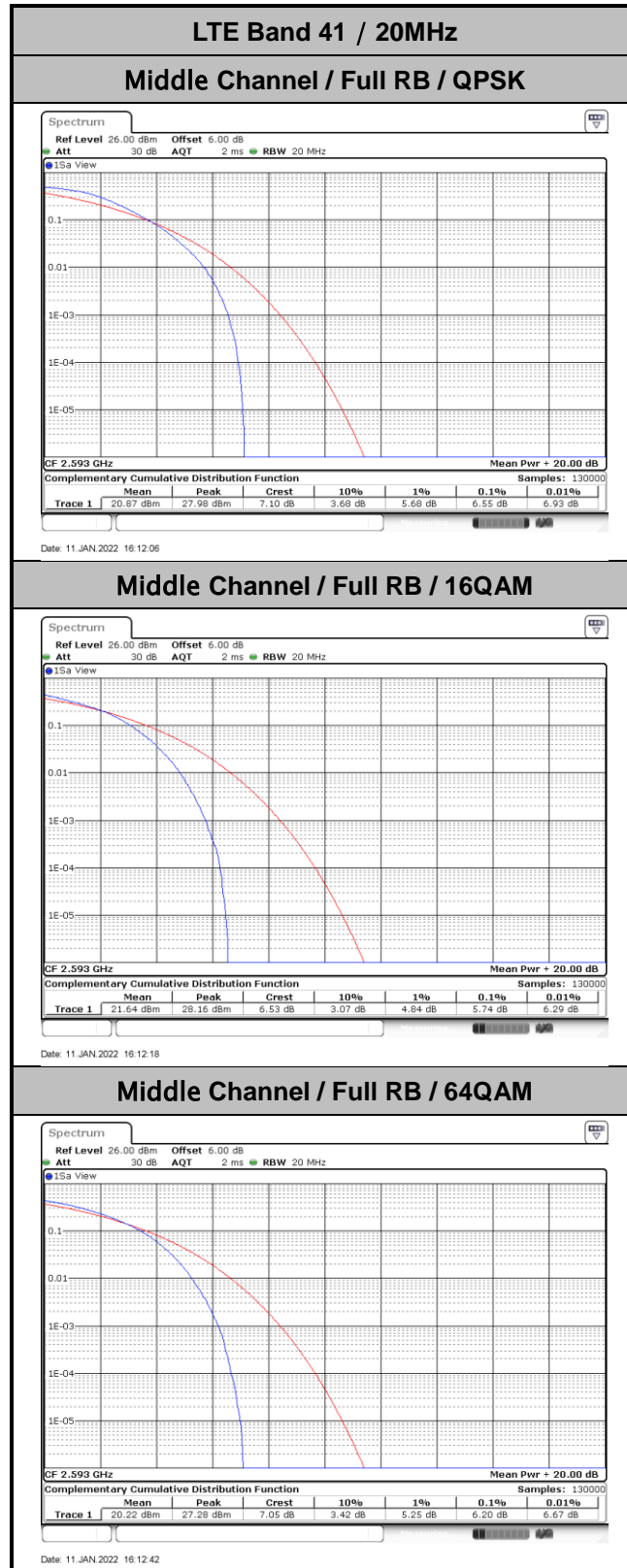
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

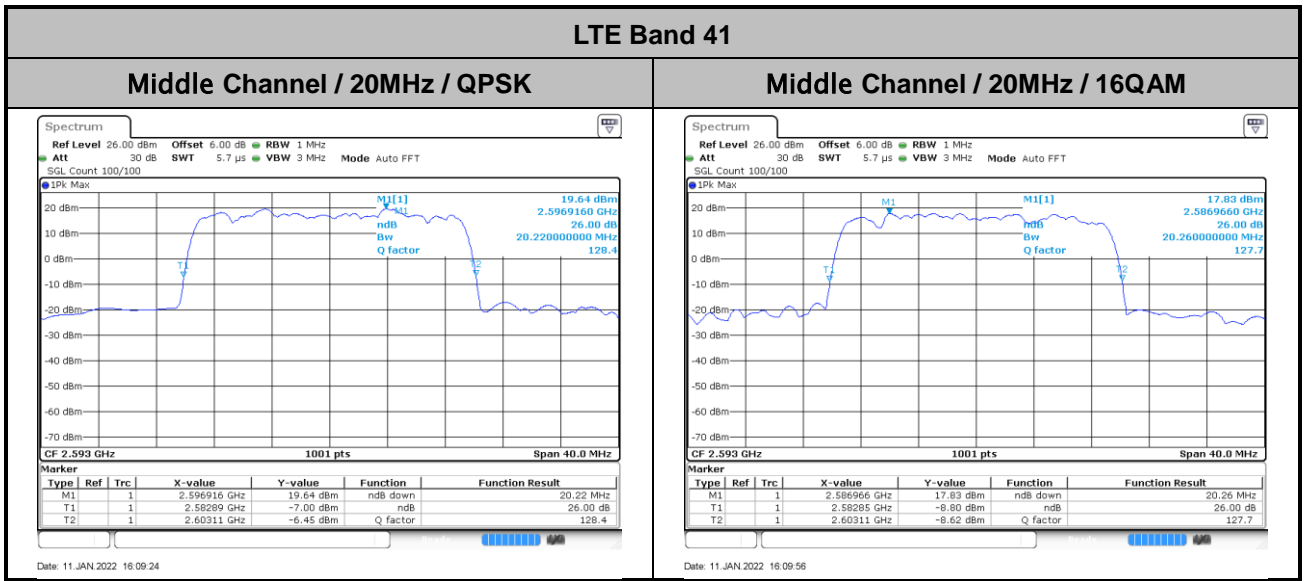
Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	6.55	5.74	6.20	PASS





26dB Bandwidth

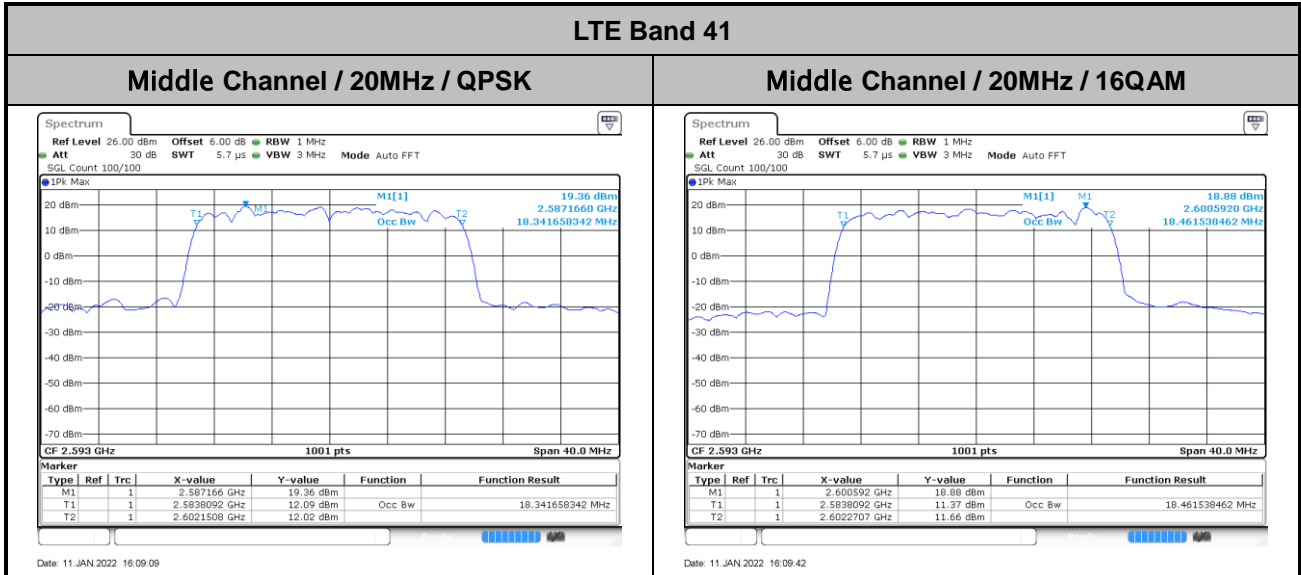
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.22	20.26





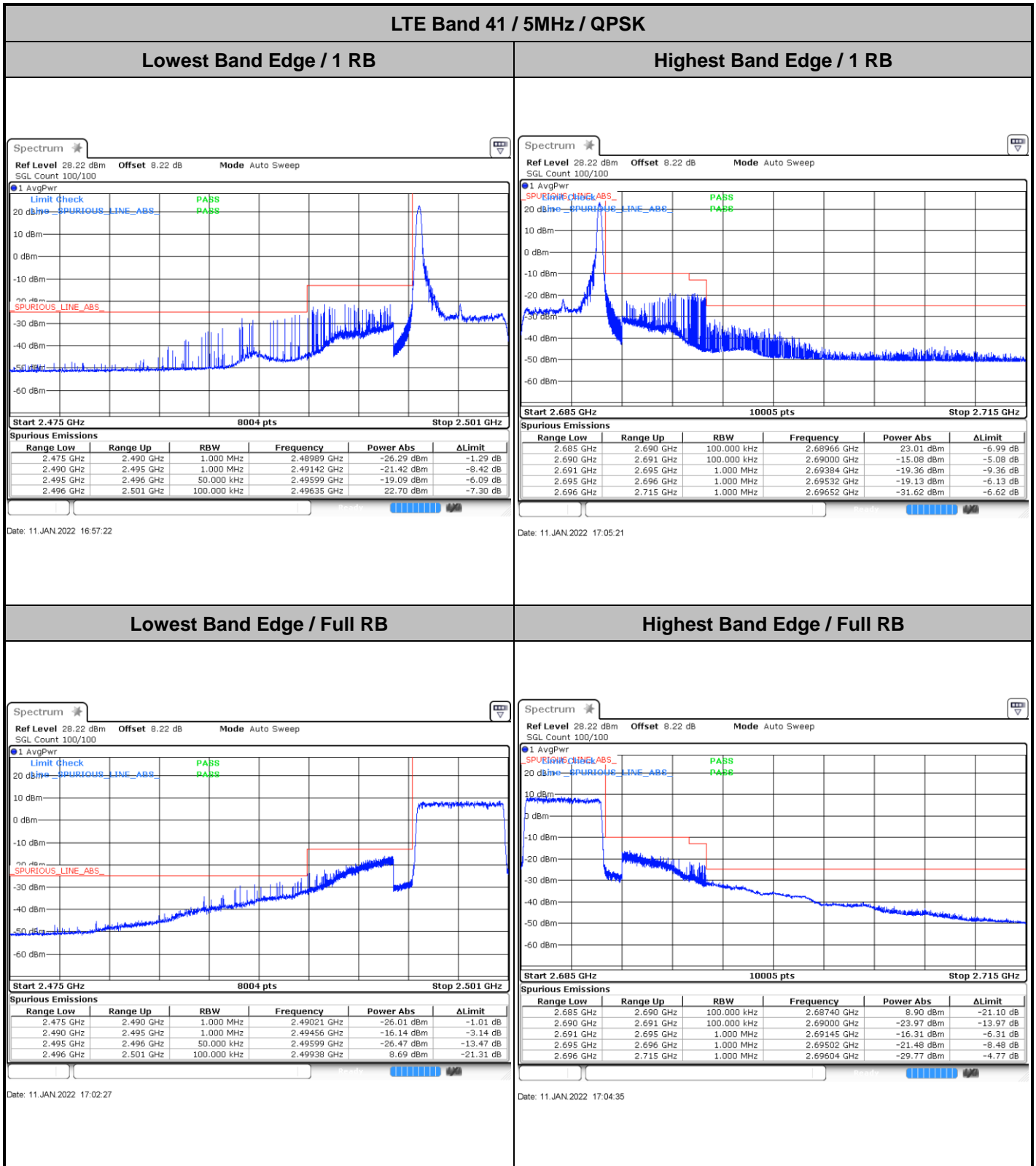
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.34	18.46





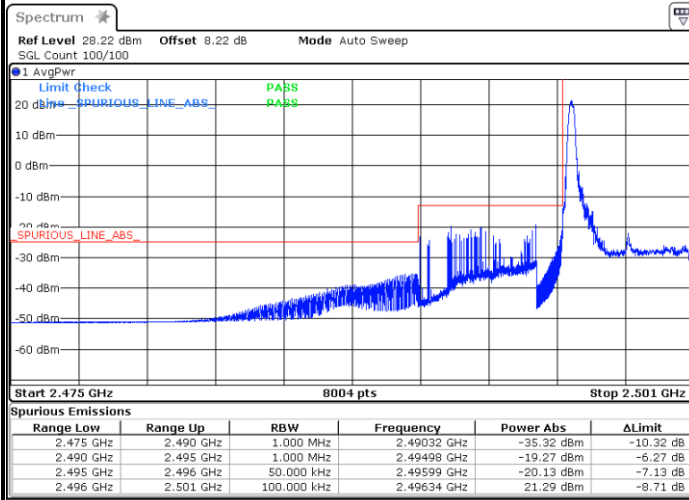
Conducted Band Edge





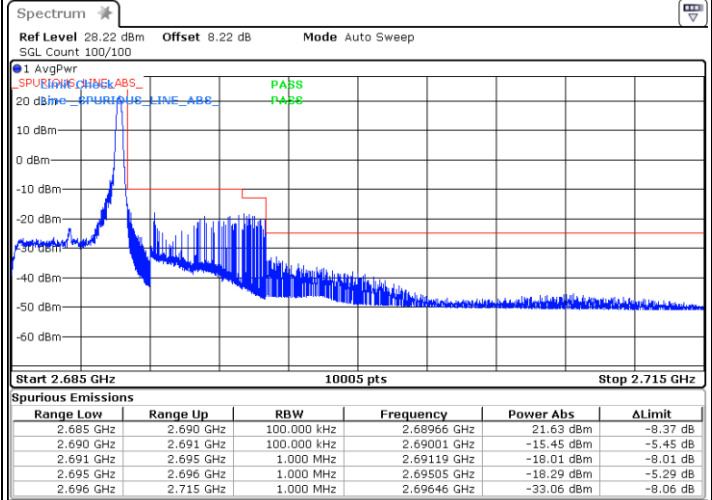
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



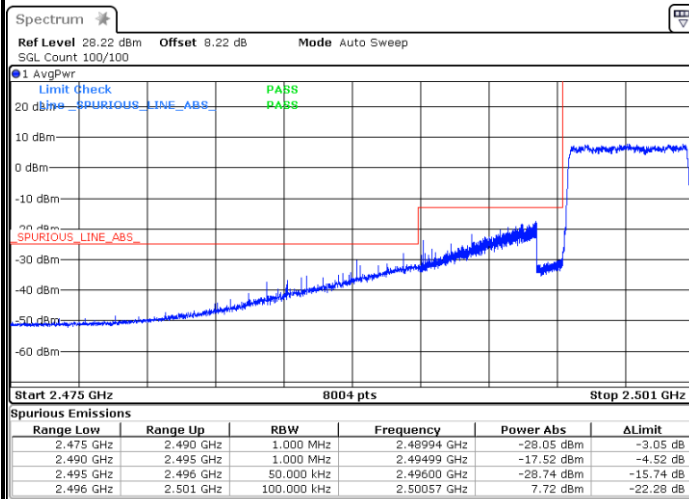
Date: 11 JAN 2022 16:59:15

Highest Band Edge / 1 RB



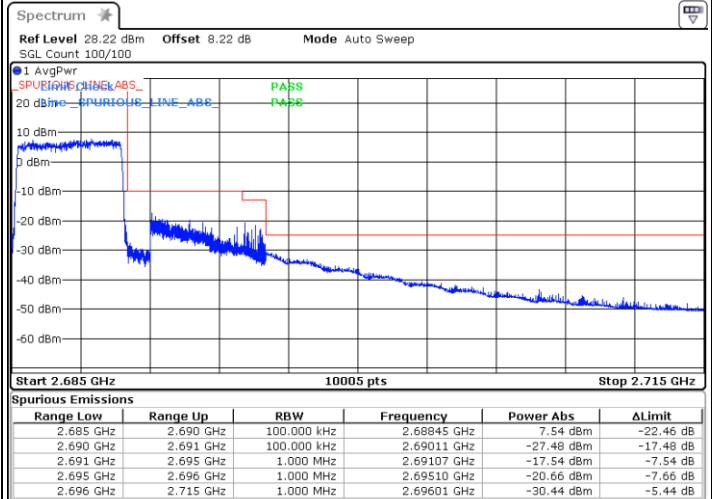
Date: 11 JAN 2022 17:07:58

Lowest Band Edge / Full RB



Date: 11 JAN 2022 17:01:50

Highest Band Edge / Full RB

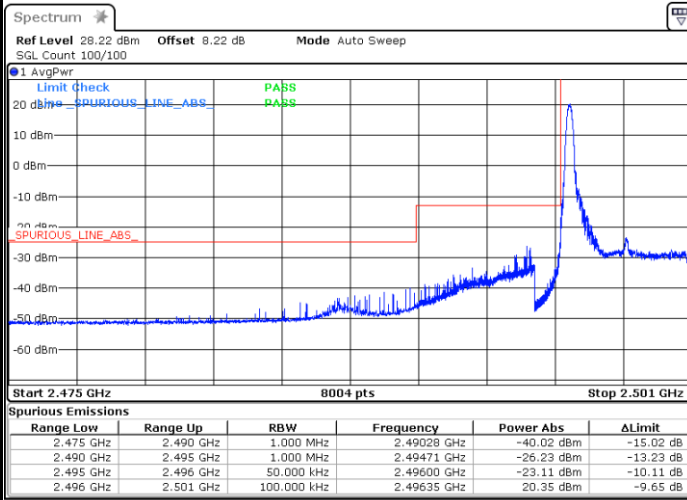


Date: 11 JAN 2022 17:03:45



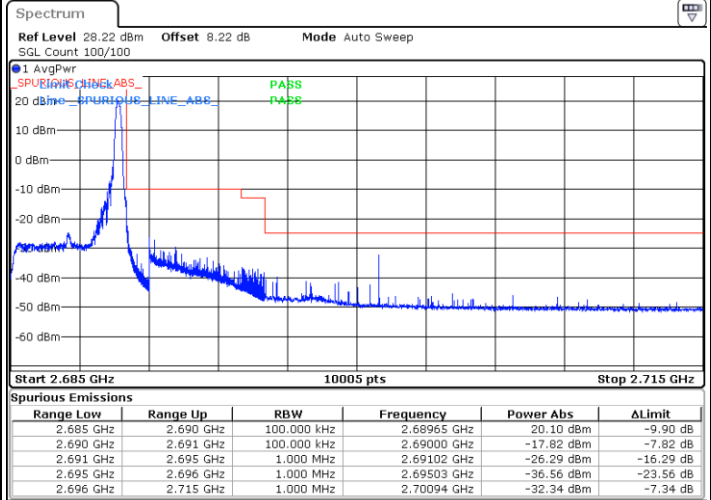
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



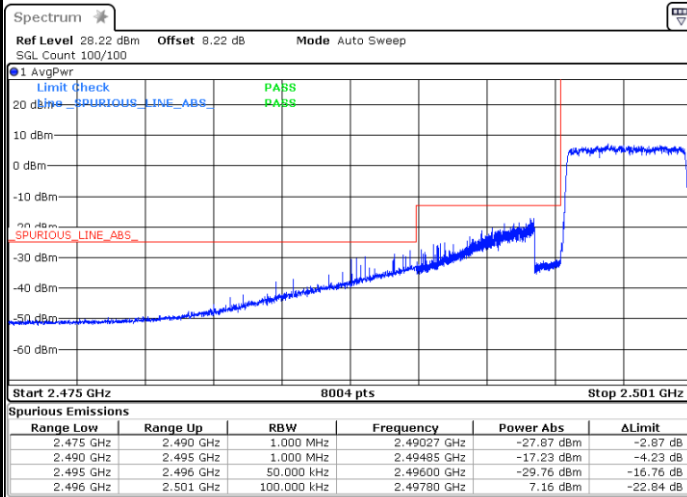
Date: 11 JAN 2022 16:59:49

Highest Band Edge / 1 RB



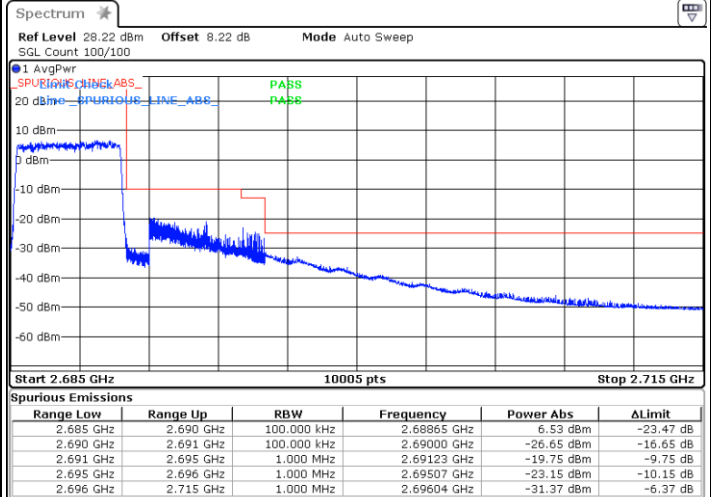
Date: 11 JAN 2022 17:08:20

Lowest Band Edge / Full RB



Date: 11 JAN 2022 17:01:18

Highest Band Edge / Full RB

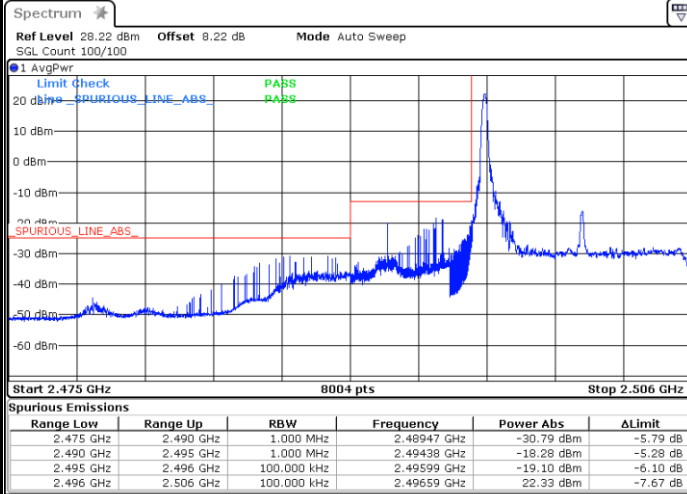


Date: 11 JAN 2022 17:06:58



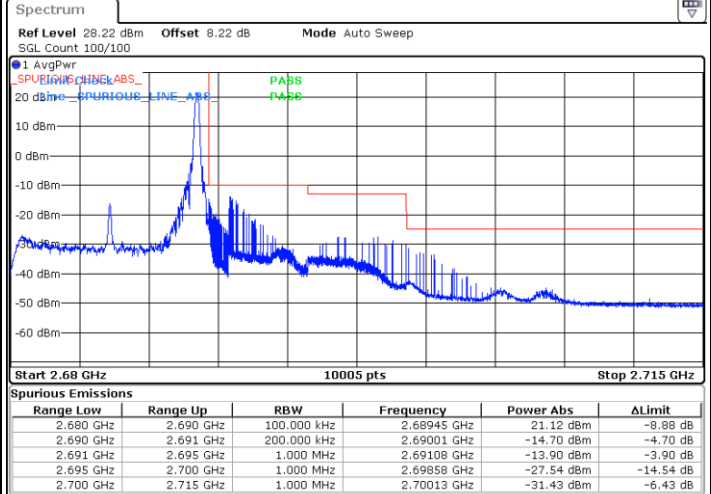
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



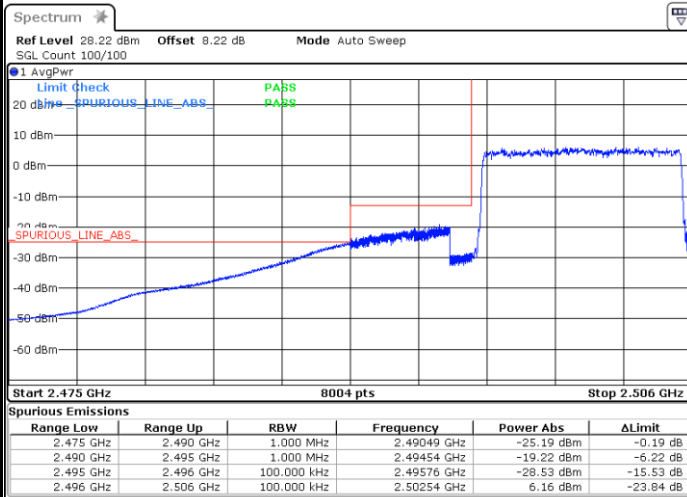
Date: 11 JAN 2022 16:47:49

Highest Band Edge / 1 RB



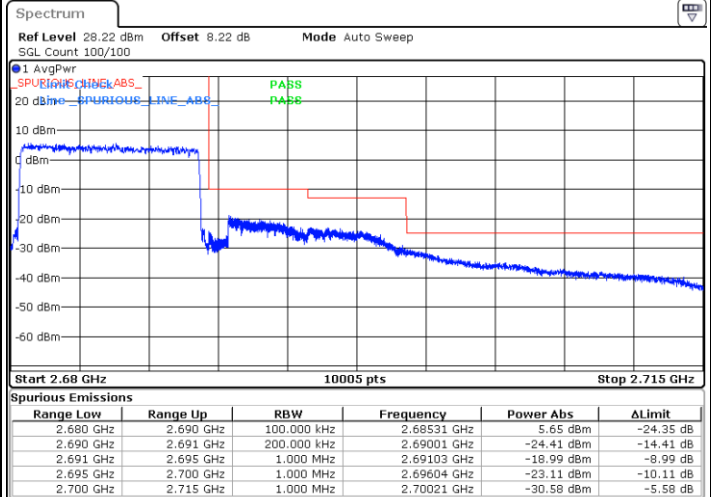
Date: 11 JAN 2022 16:53:42

Lowest Band Edge / Full RB

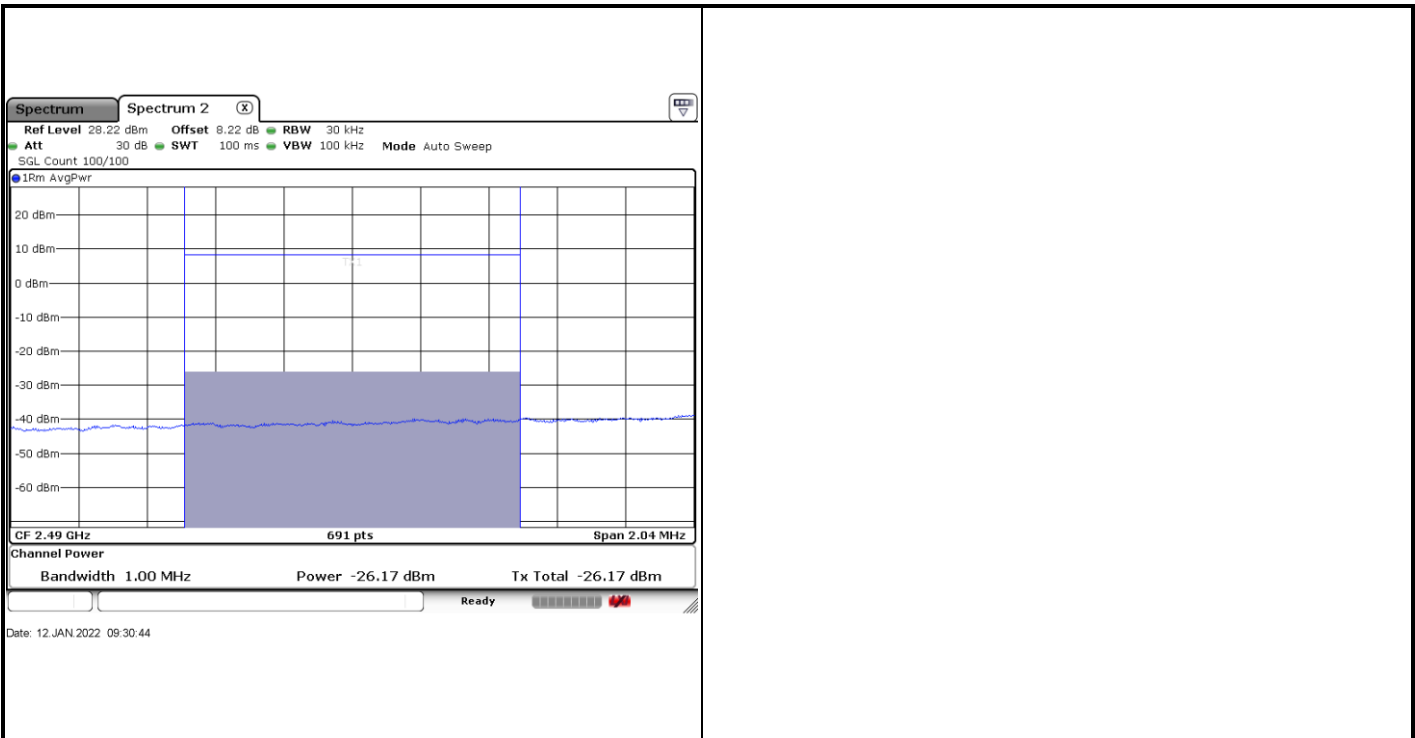


Date: 12 JAN 2022 09:26:45

Highest Band Edge / Full RB



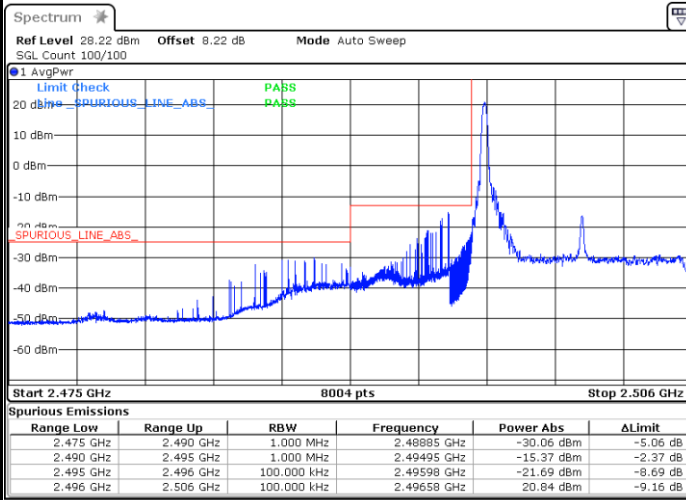
Date: 11 JAN 2022 16:51:47





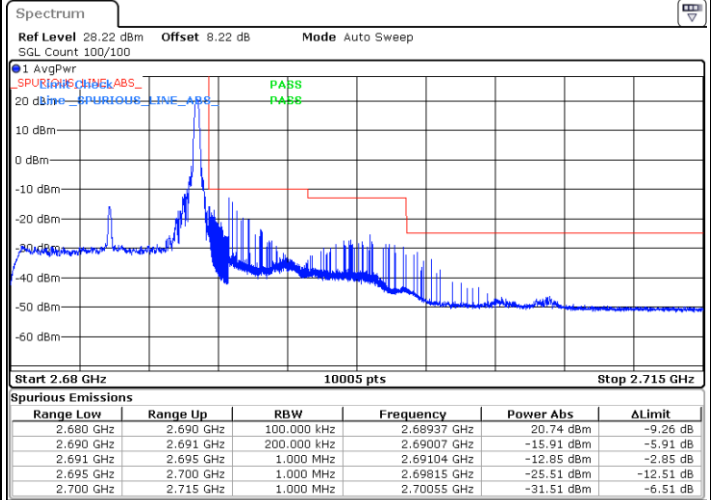
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



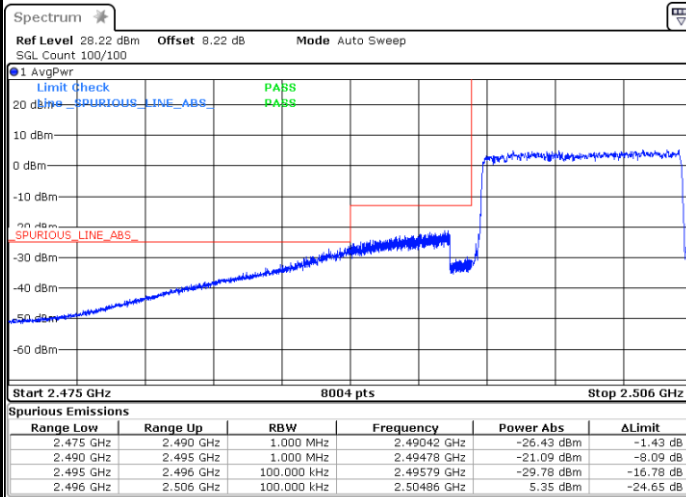
Date: 11 JAN 2022 16:48:14

Highest Band Edge / 1 RB



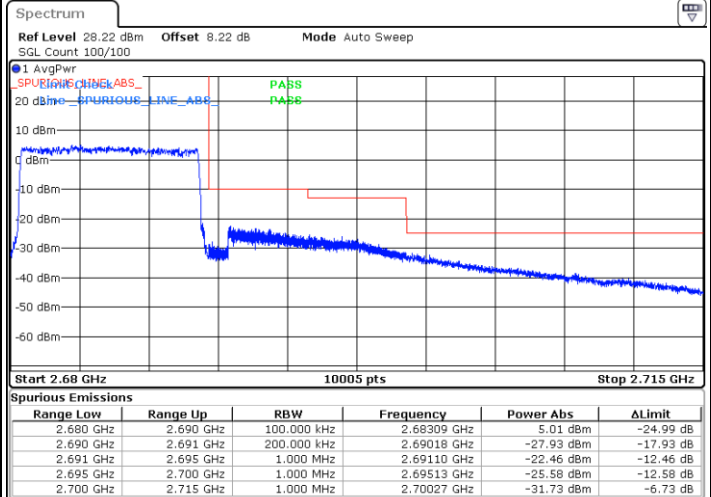
Date: 11 JAN 2022 16:53:08

Lowest Band Edge / Full RB



Date: 11 JAN 2022 16:49:37

Highest Band Edge / Full RB

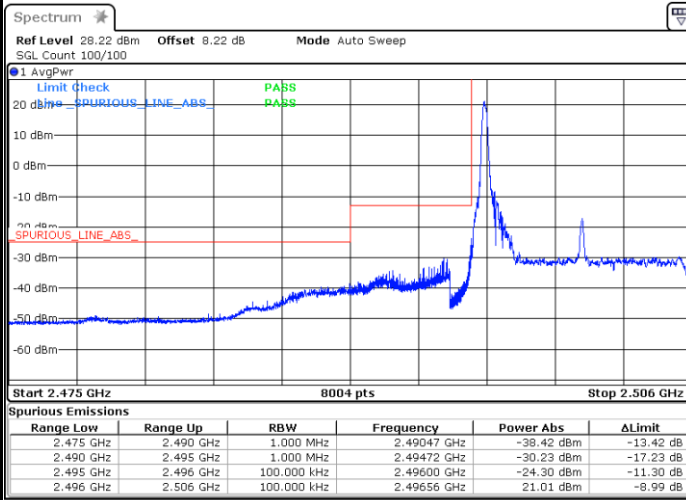


Date: 11 JAN 2022 16:52:02



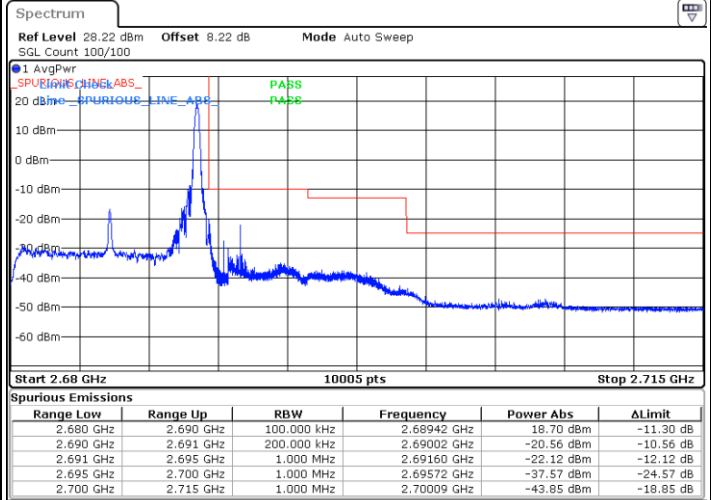
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



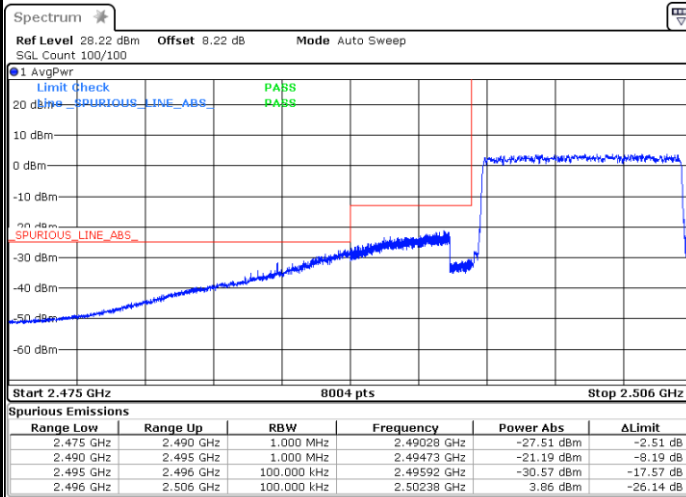
Date: 11.JAN.2022 16:48:41

Highest Band Edge / 1 RB



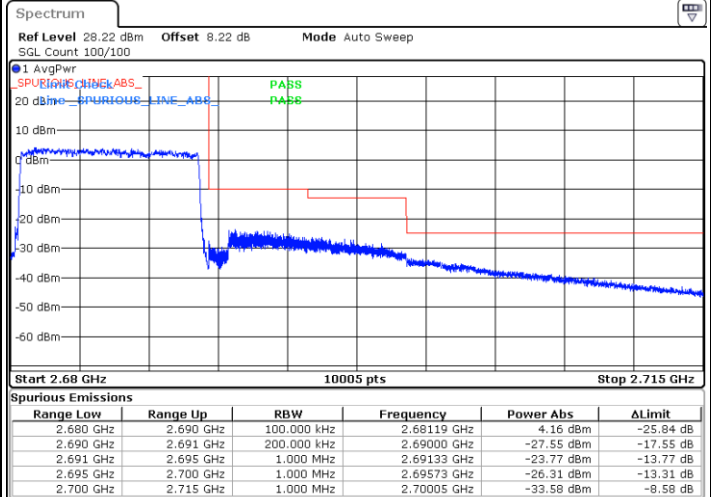
Date: 11.JAN.2022 16:52:47

Lowest Band Edge / Full RB



Date: 11.JAN.2022 16:49:06

Highest Band Edge / Full RB

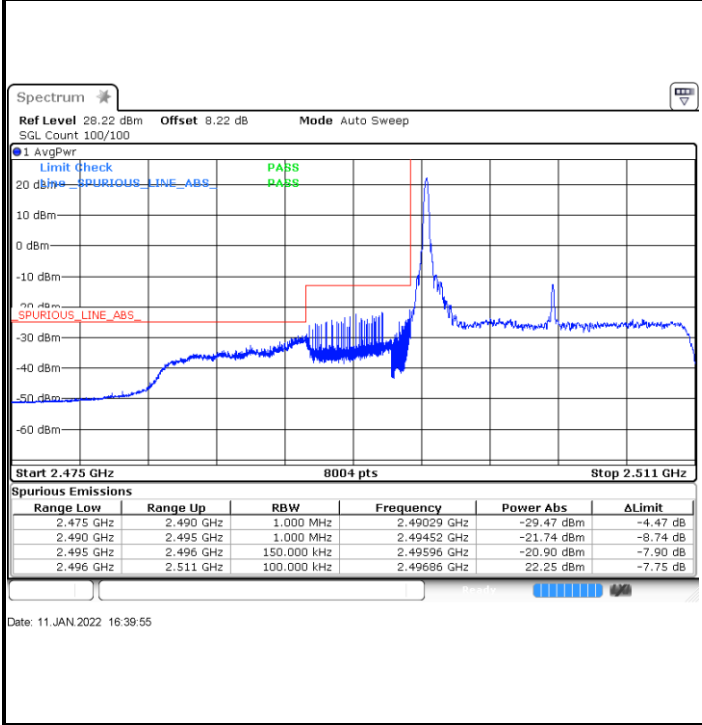


Date: 11.JAN.2022 16:52:24

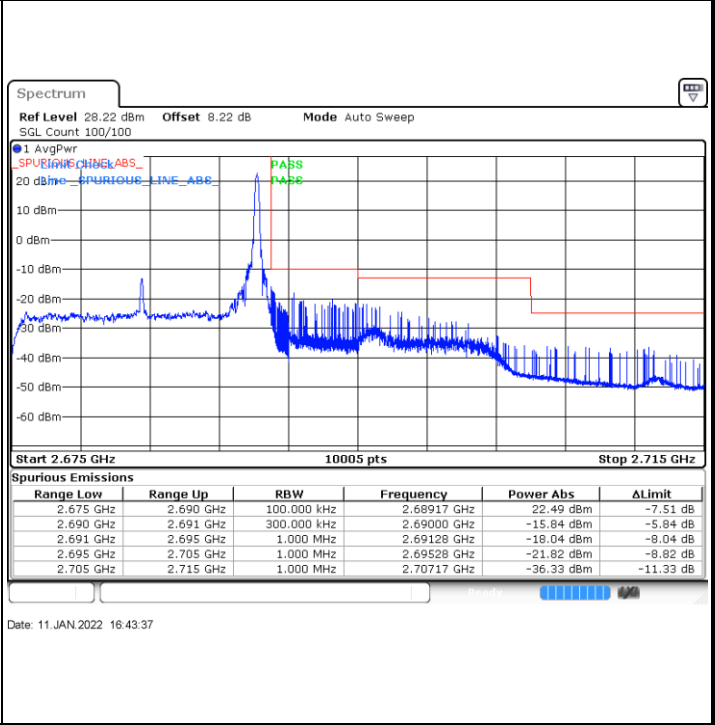


LTE Band 41 / 15MHz / QPSK

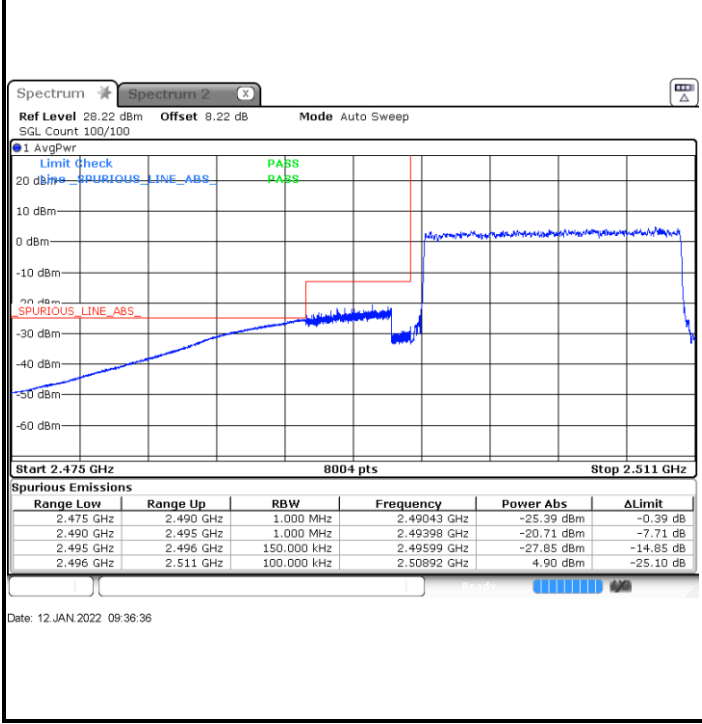
Lowest Band Edge / 1 RB



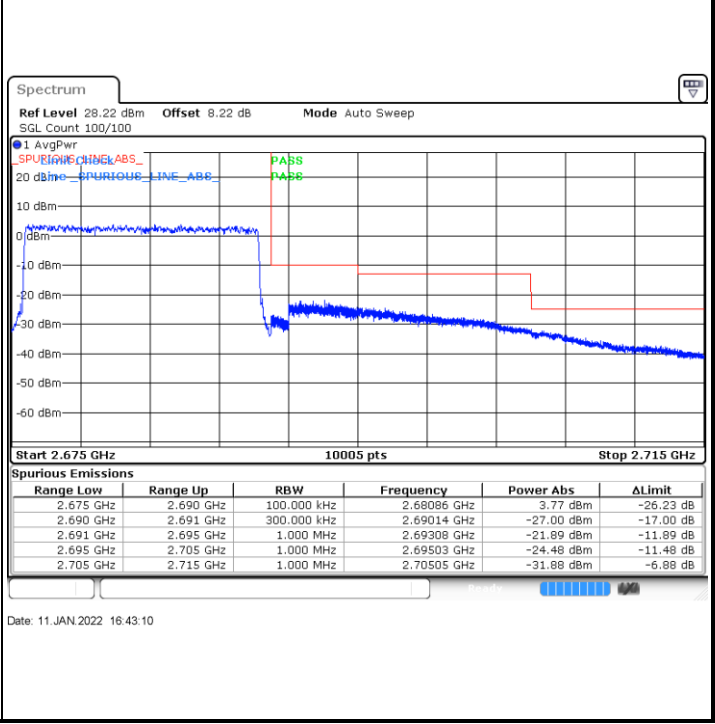
Highest Band Edge / 1 RB

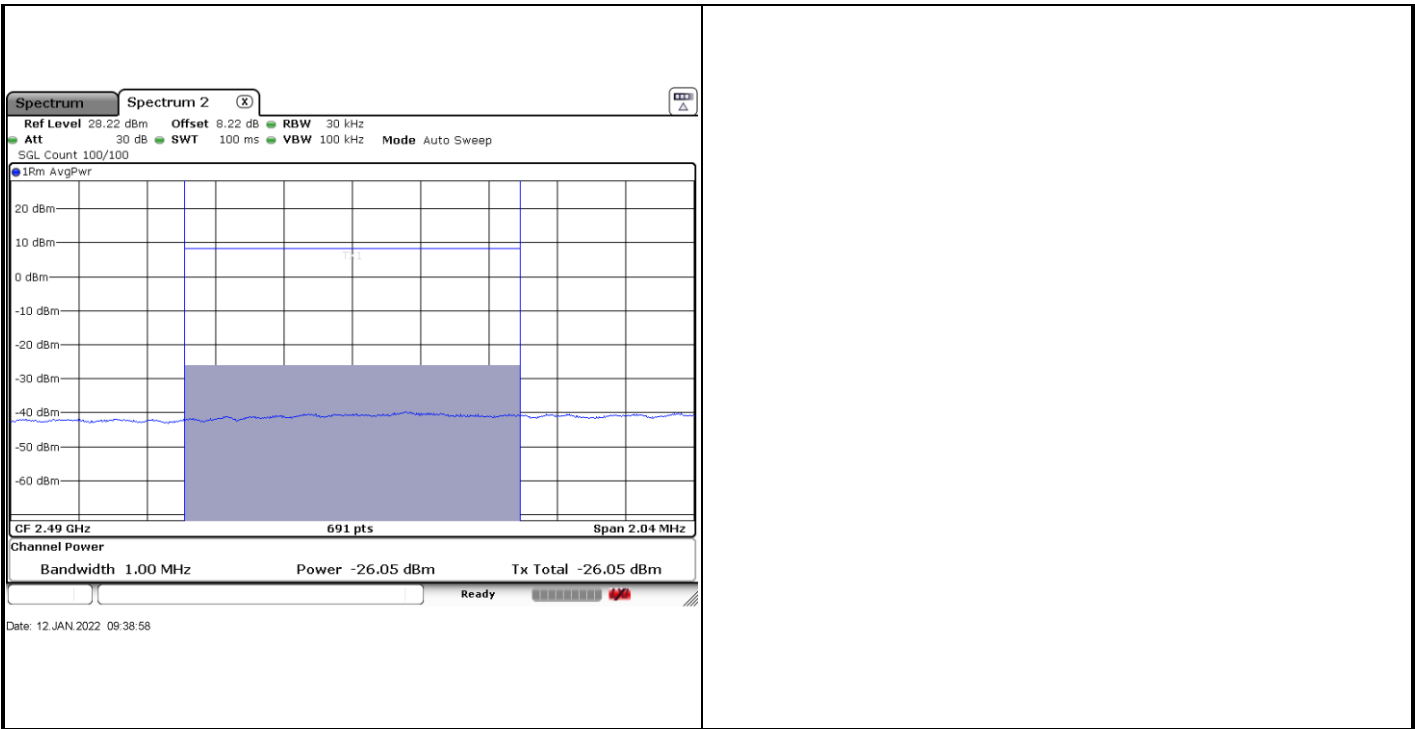


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

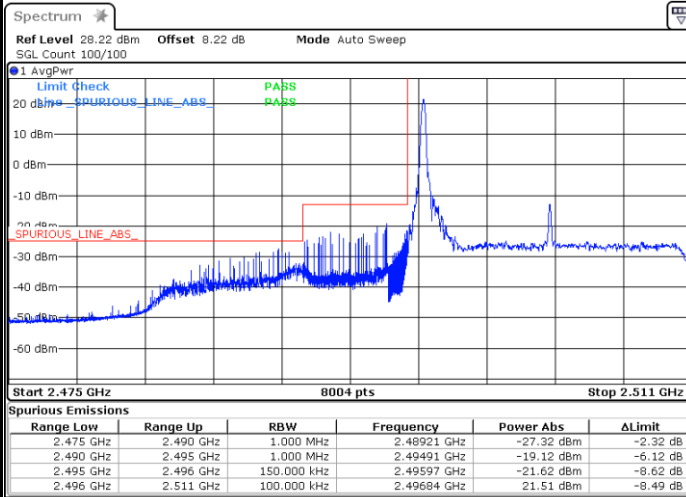






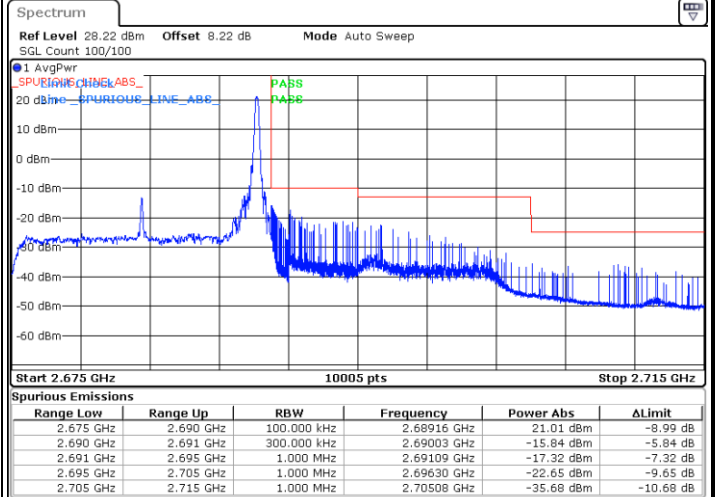
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



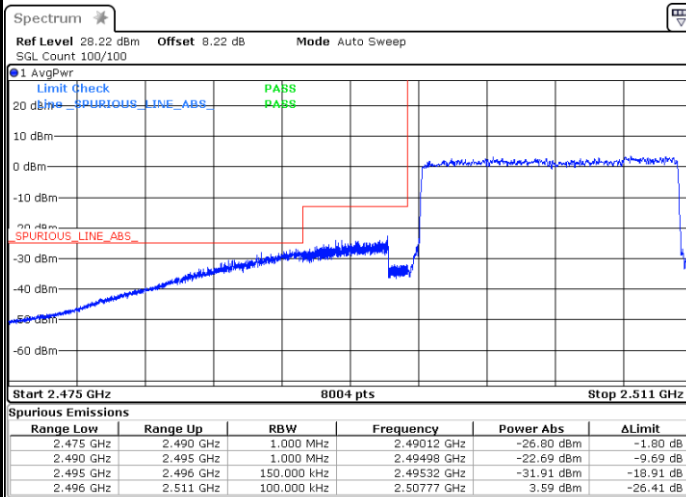
Date: 11 JAN 2022 16:40:21

Highest Band Edge / 1 RB



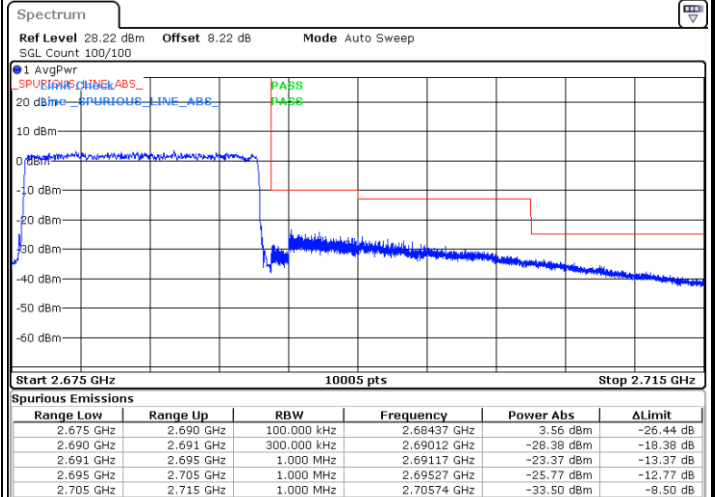
Date: 11 JAN 2022 16:43:54

Lowest Band Edge / Full RB



Date: 11 JAN 2022 16:41:43

Highest Band Edge / Full RB

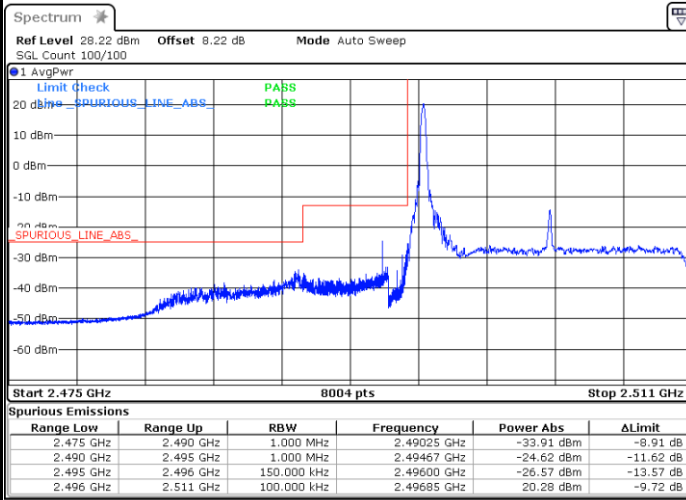


Date: 11 JAN 2022 16:42:47



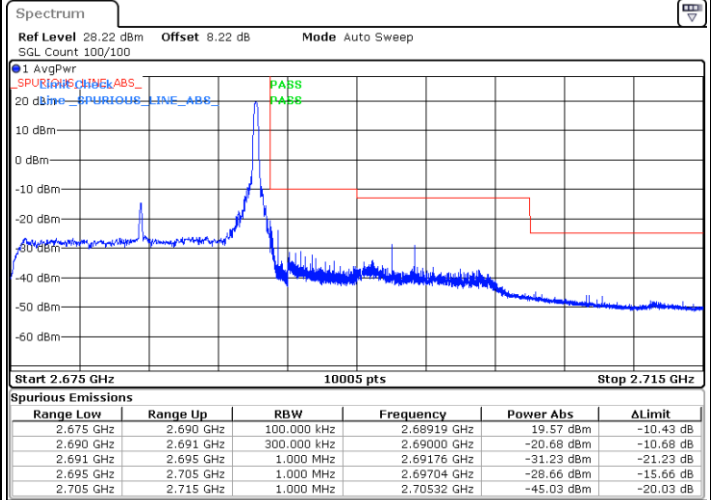
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



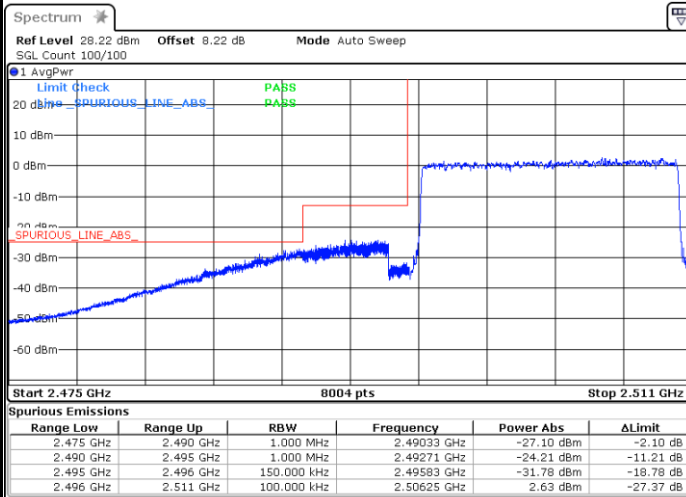
Date: 11.JAN.2022 16:40:54

Highest Band Edge / 1 RB



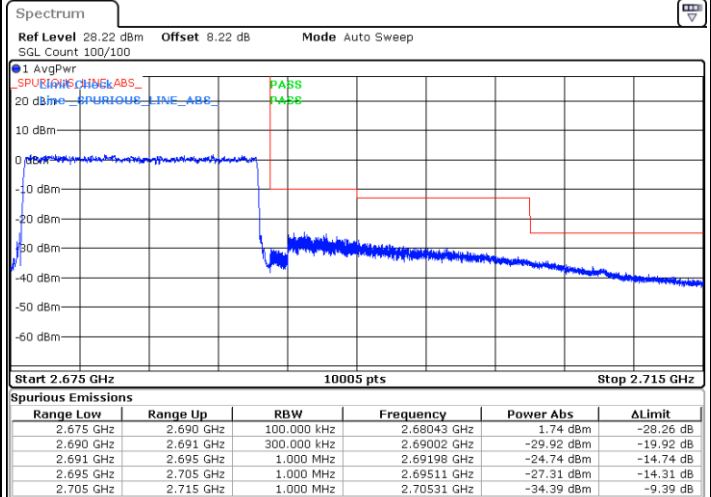
Date: 11.JAN.2022 16:44:10

Lowest Band Edge / Full RB



Date: 11.JAN.2022 16:42:13

Highest Band Edge / Full RB

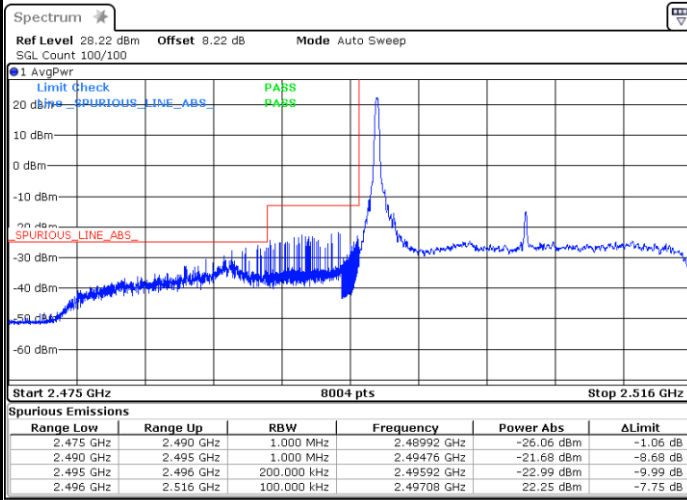


Date: 11.JAN.2022 16:42:31



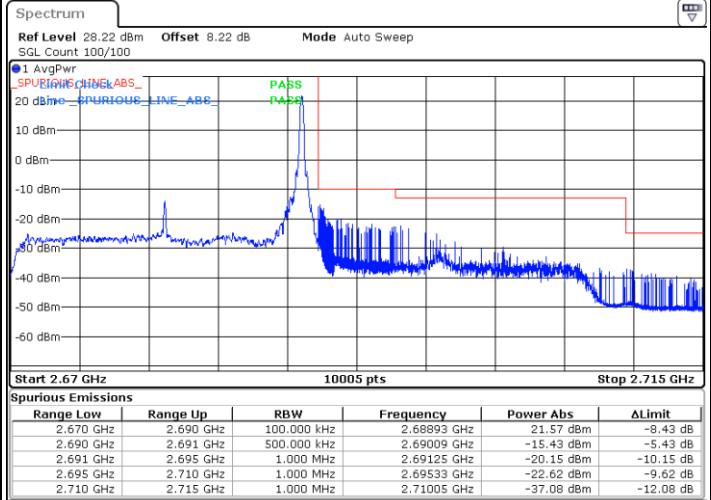
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



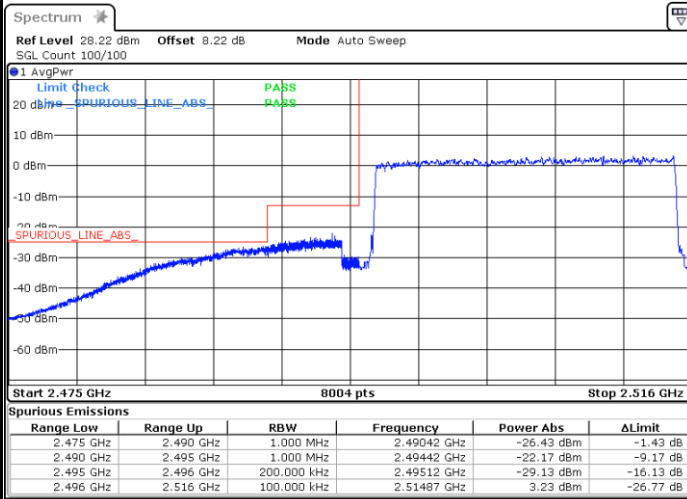
Date: 11.JAN.2022 16:32:39

Highest Band Edge / 1 RB



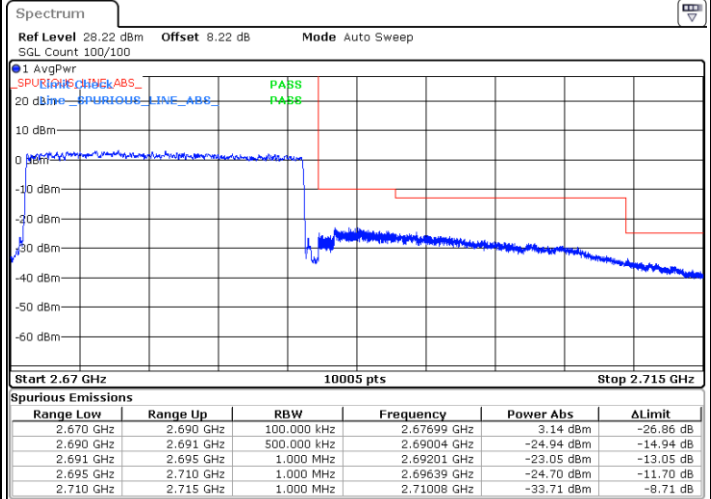
Date: 11.JAN.2022 16:31:17

Lowest Band Edge / Full RB



Date: 11.JAN.2022 16:35:36

Highest Band Edge / Full RB

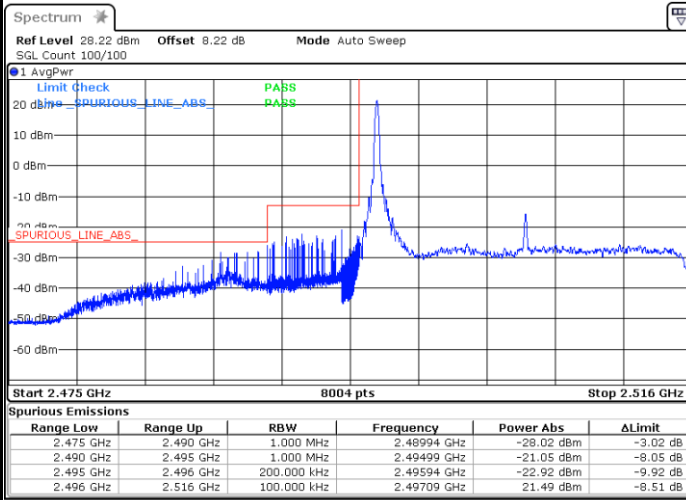


Date: 11.JAN.2022 16:28:35



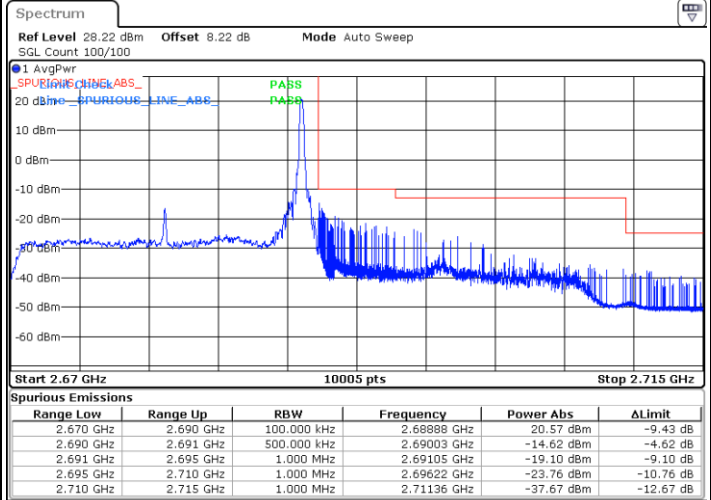
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



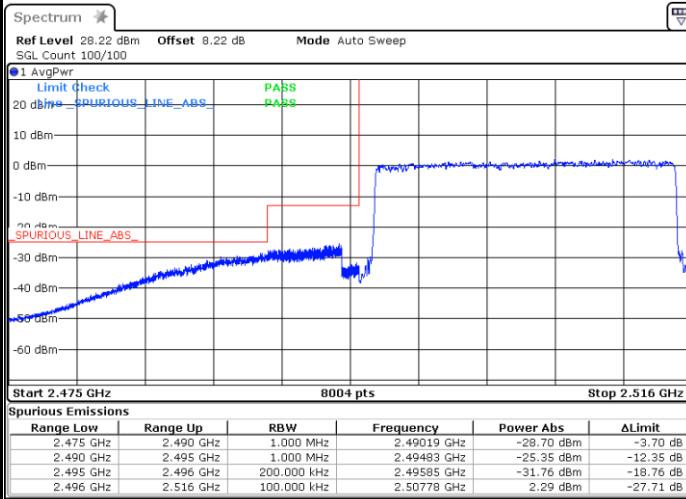
Date: 11 JAN 2022 16:33:29

Highest Band Edge / 1 RB



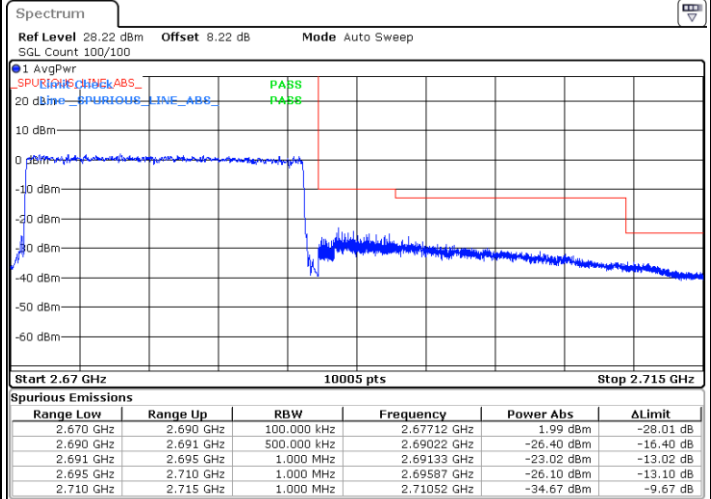
Date: 11 JAN 2022 16:30:35

Lowest Band Edge / Full RB



Date: 11 JAN 2022 16:34:39

Highest Band Edge / Full RB

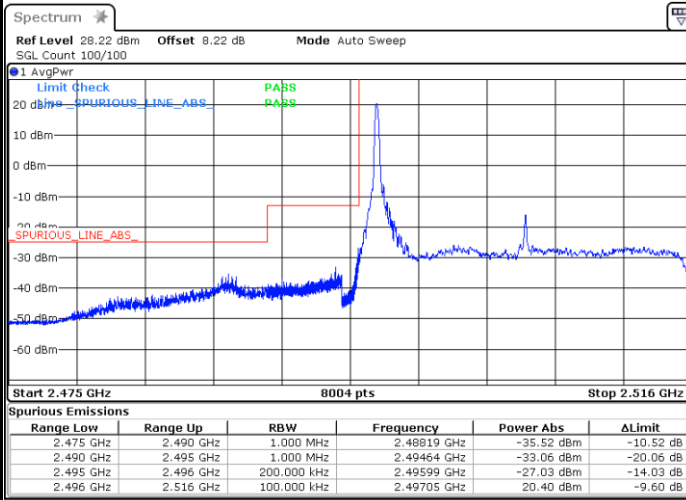


Date: 11 JAN 2022 16:28:56



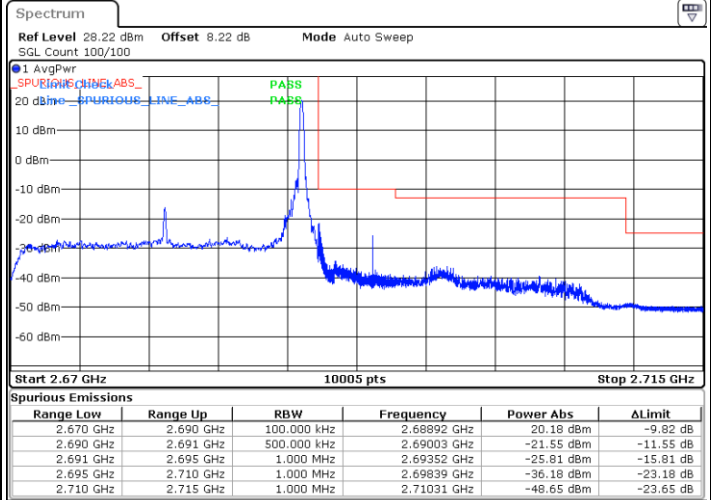
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



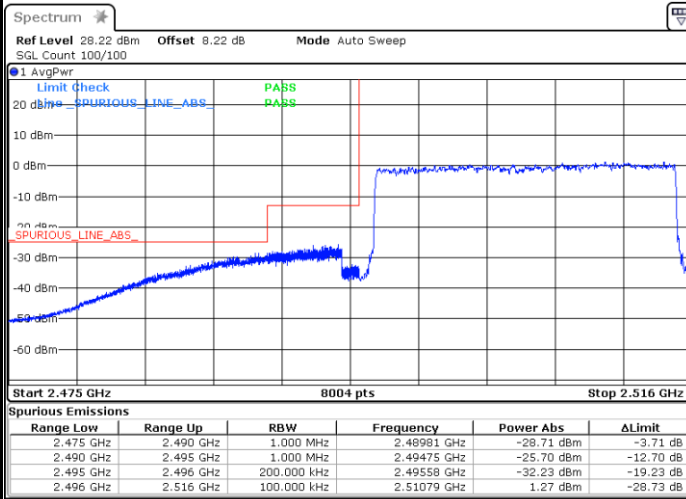
Date: 11 JAN 2022 16:33:54

Highest Band Edge / 1 RB



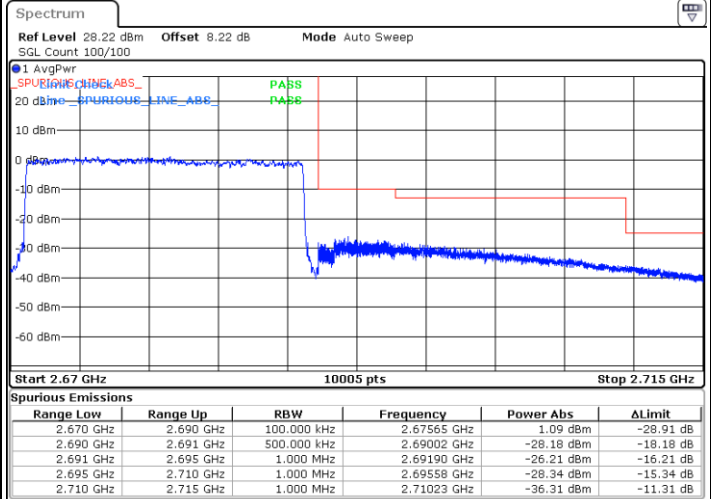
Date: 11 JAN 2022 16:30:02

Lowest Band Edge / Full RB



Date: 11 JAN 2022 16:35:10

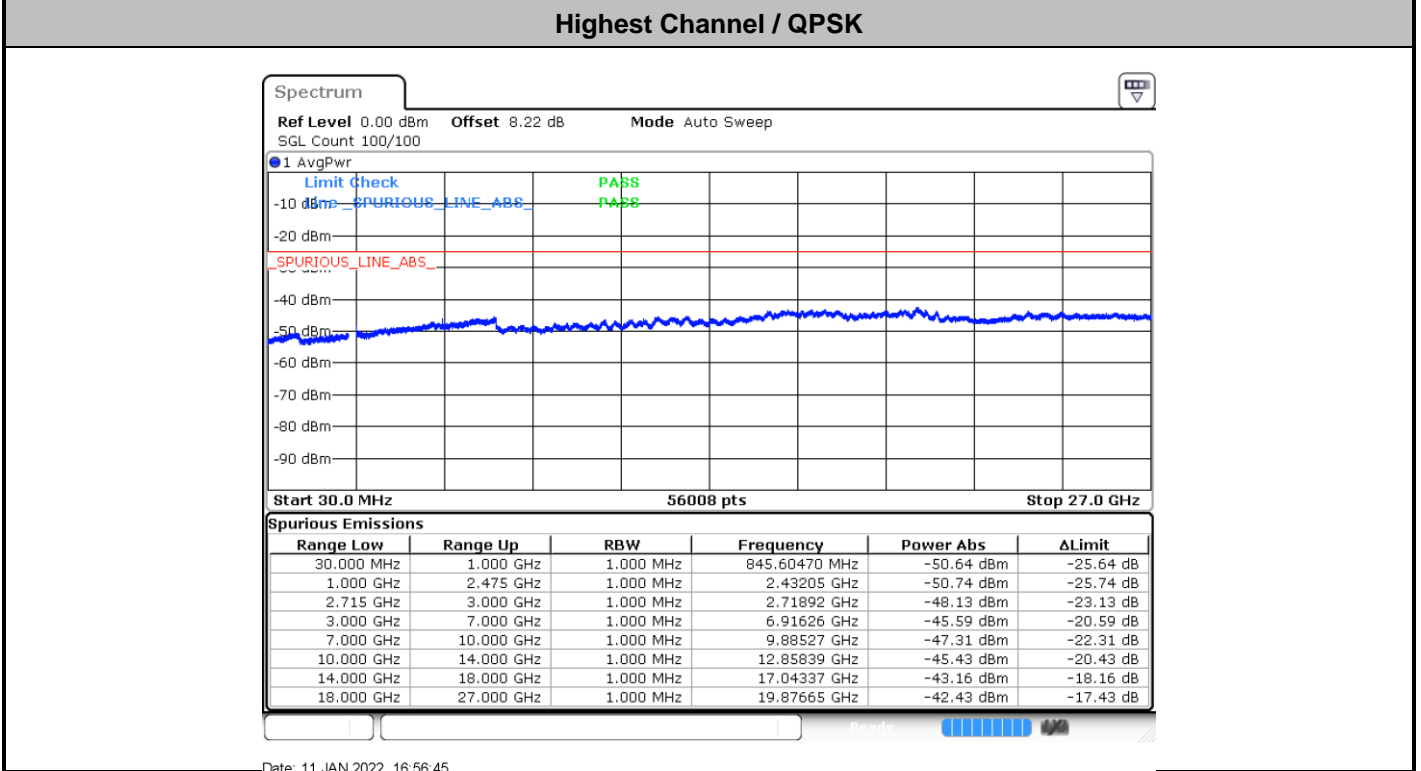
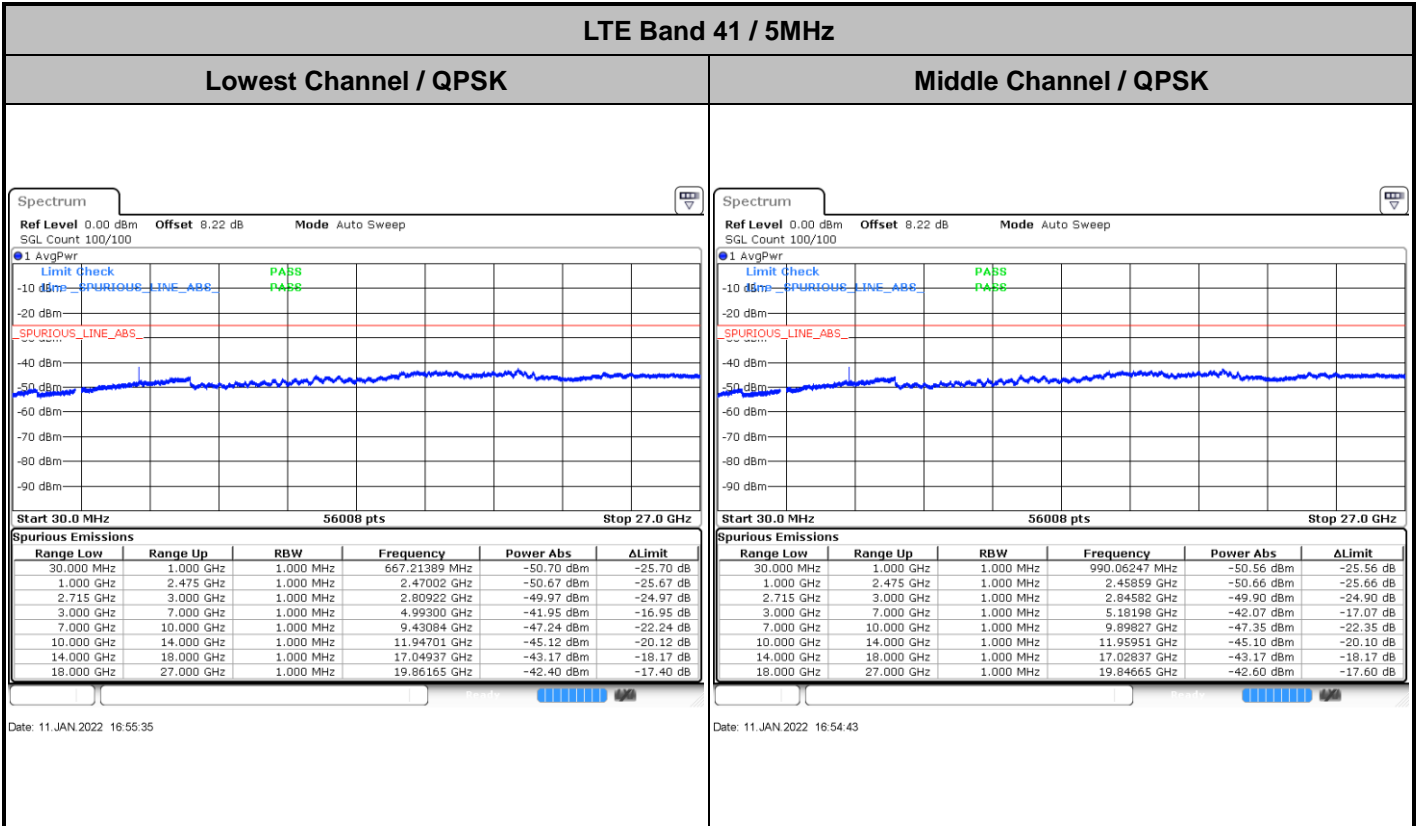
Highest Band Edge / Full RB



Date: 11 JAN 2022 16:29:15



Conducted Spurious Emission

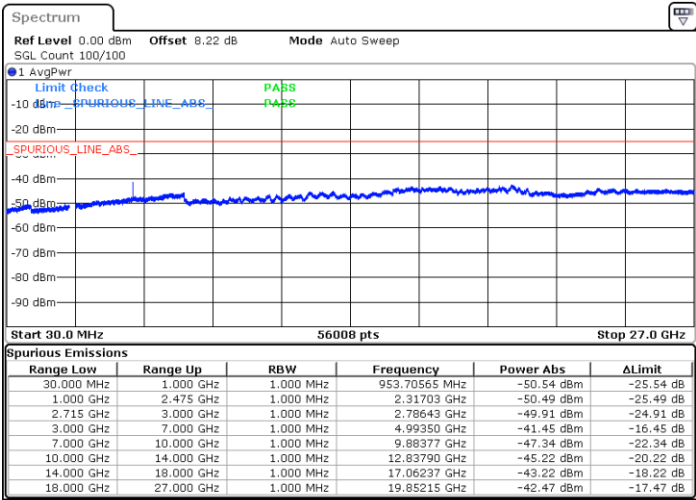




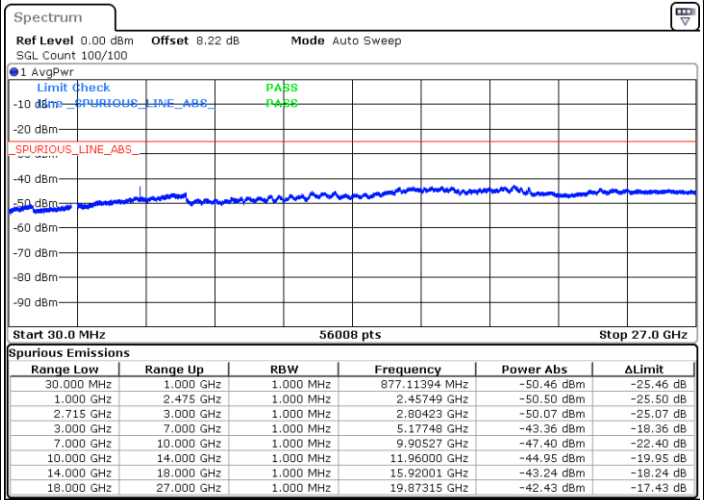
LTE Band 41 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

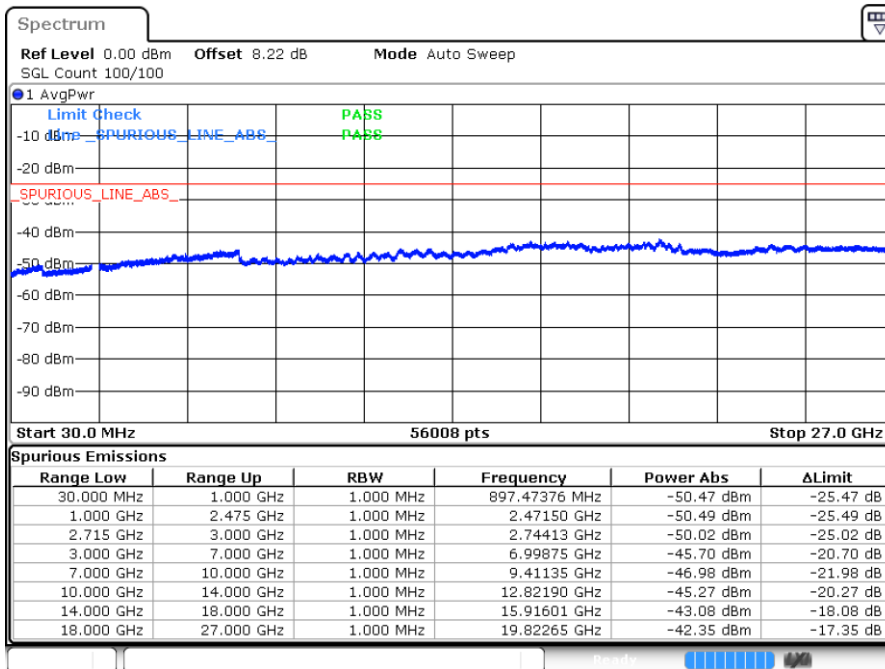


Date: 11. JAN 2022 16:46:16



Date: 11. JAN 2022 16:45:17

Highest Channel / QPSK



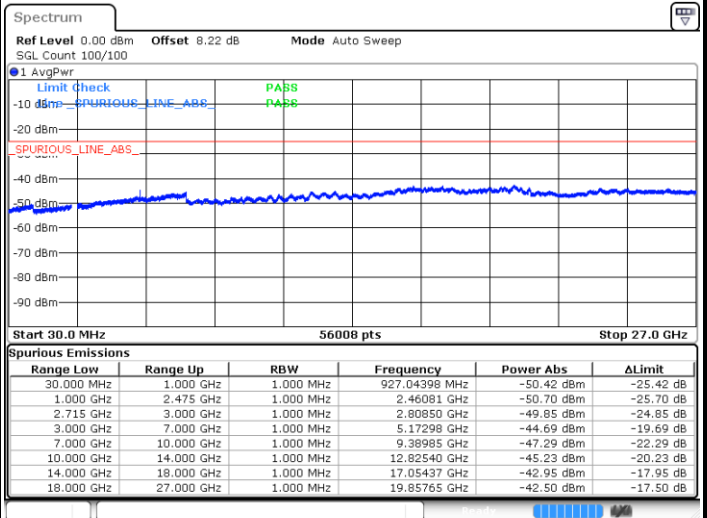
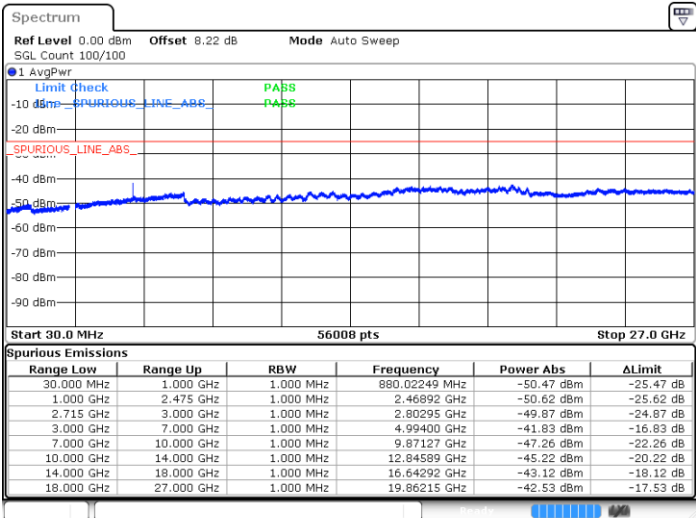
Date: 11. JAN 2022 16:47:14



LTE Band 41 / 15MHz

Lowest Channel / QPSK

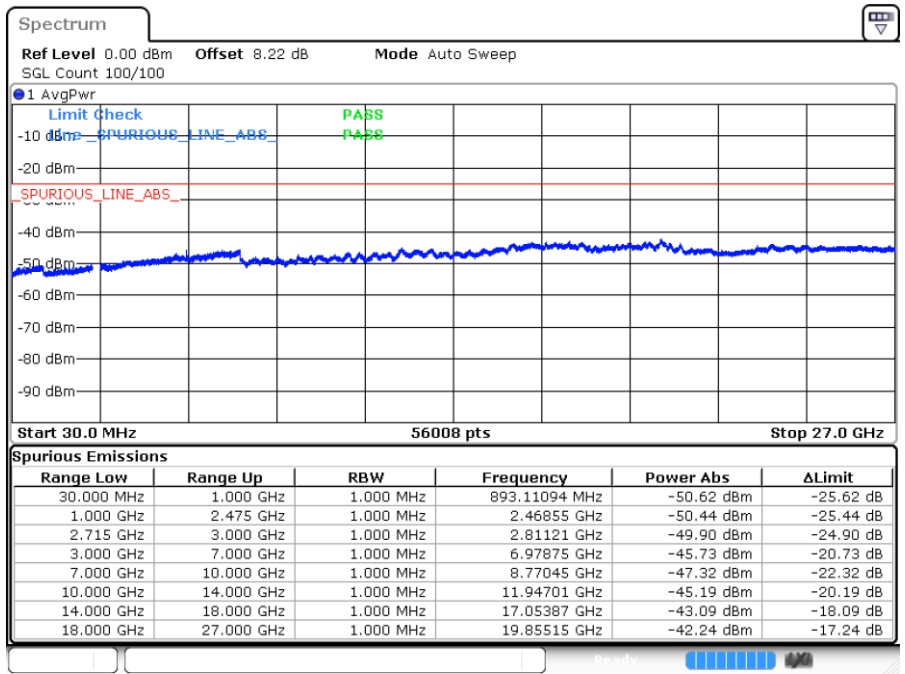
Middle Channel / QPSK



Date: 11 JAN 2022 16:37:54

Date: 11 JAN 2022 16:36:51

Highest Channel / QPSK

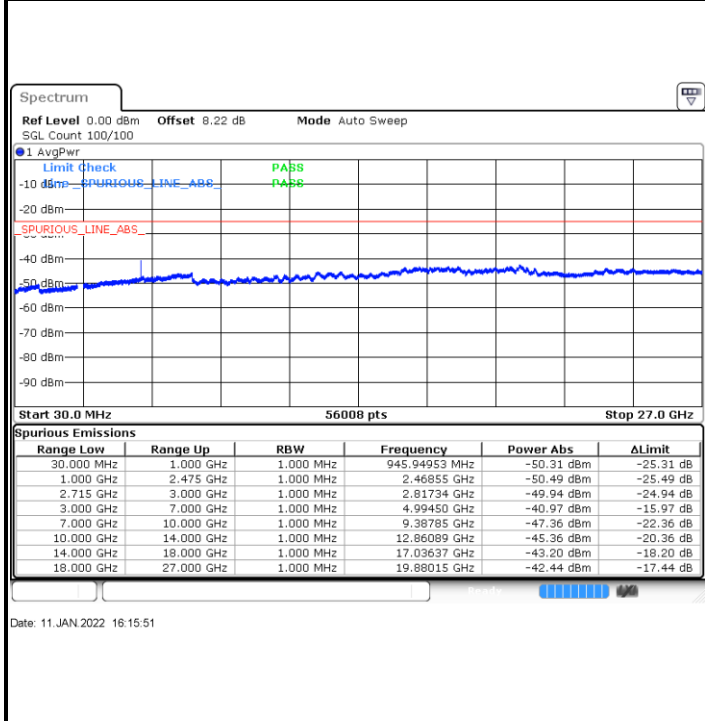


Date: 11 JAN 2022 16:38:57

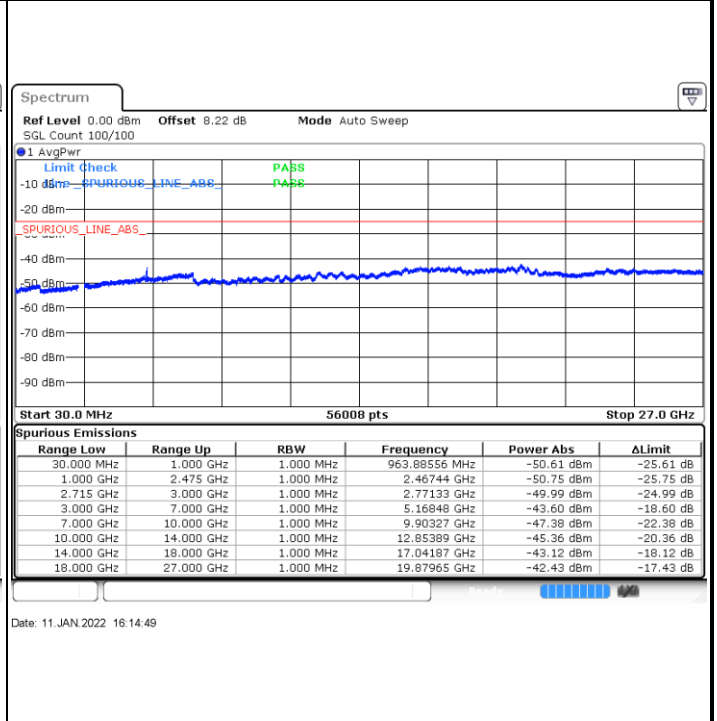


LTE Band 41 / 20MHz

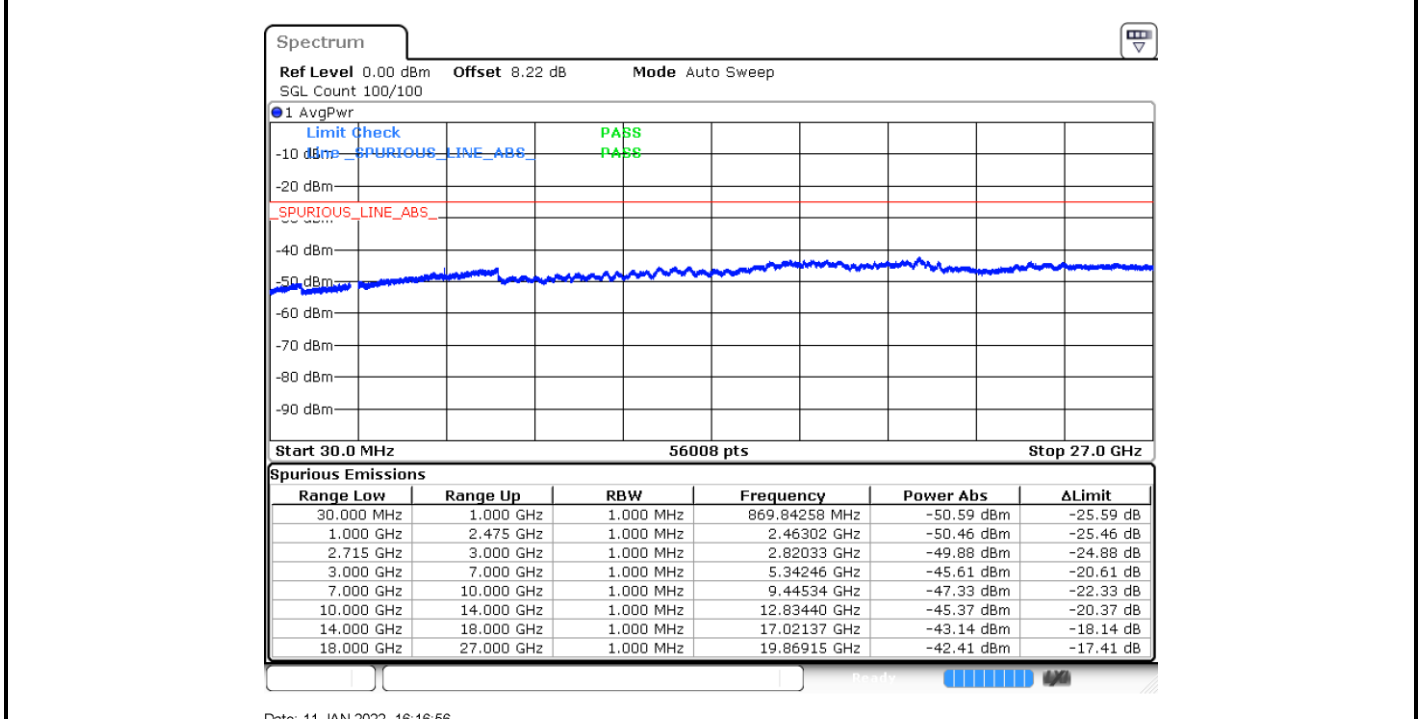
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0027	

Note:

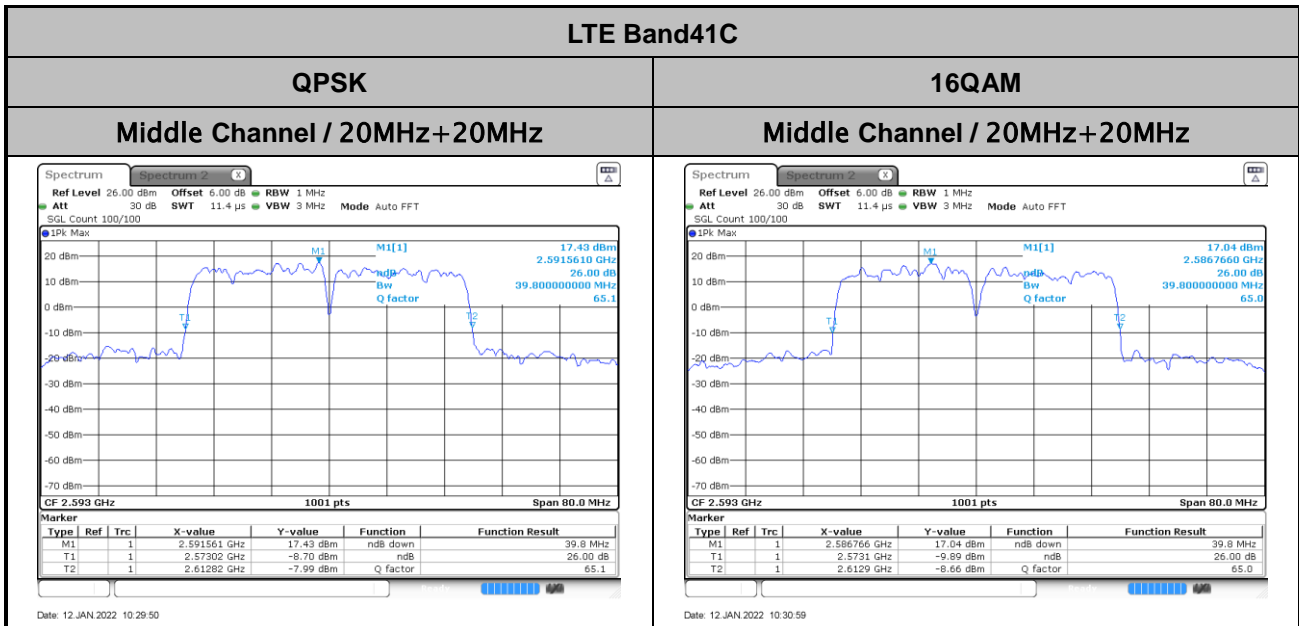
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41C

26dB Bandwidth

Mode	LTE Band 41C : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.8	39.8





Occupied Bandwidth

Mode	LTE Band 41C : 99%OBW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.8	37.8

