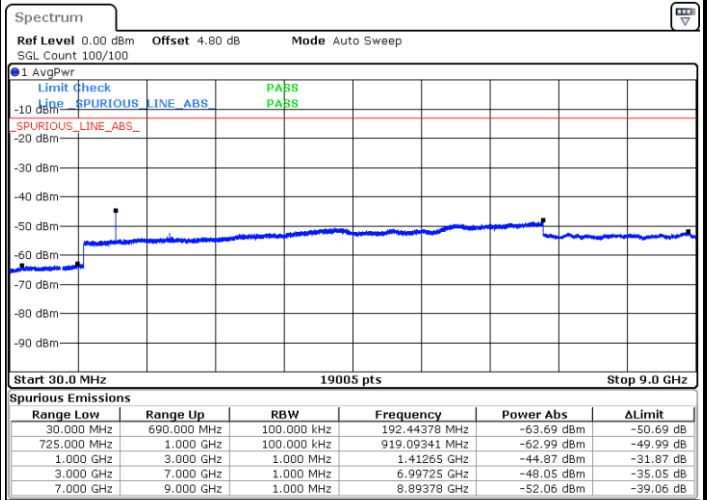
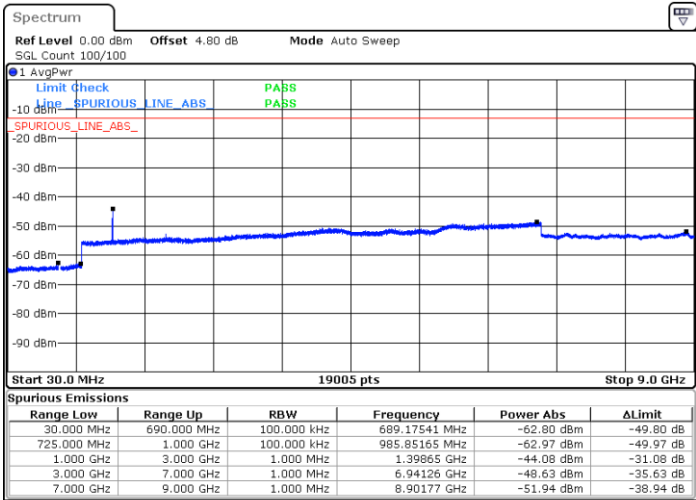




LTE Band 12 / 3MHz

Lowest Channel / QPSK

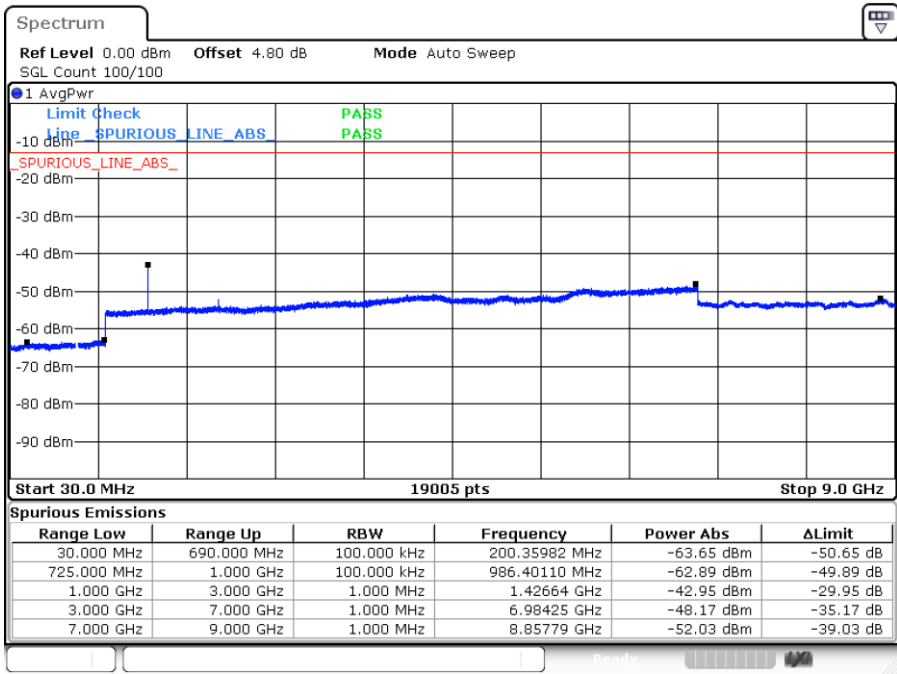
Middle Channel / QPSK



Date: 25.NOV.2021 06:42:27

Date: 25.NOV.2021 06:43:52

Highest Channel / QPSK



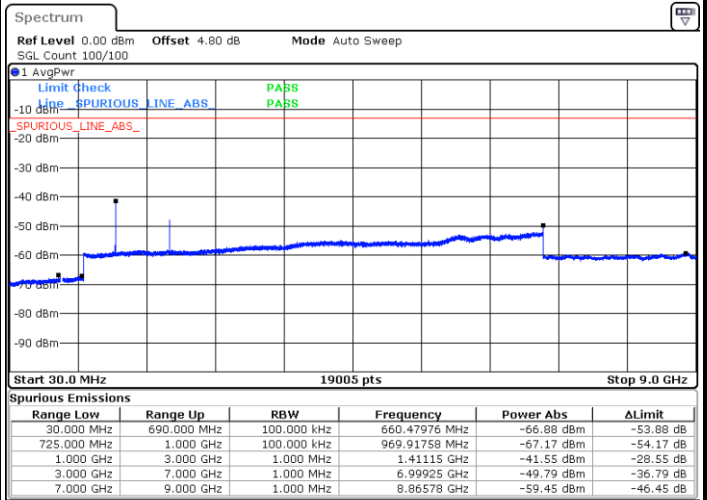
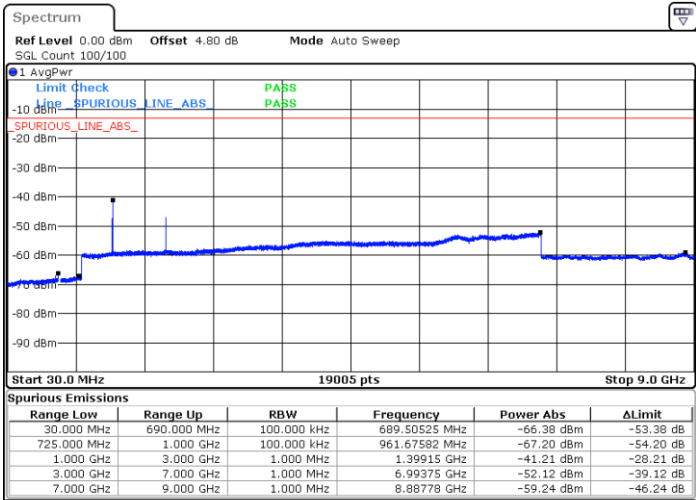
Date: 25.NOV.2021 06:45:16



LTE Band 12 / 5MHz

Lowest Channel / QPSK

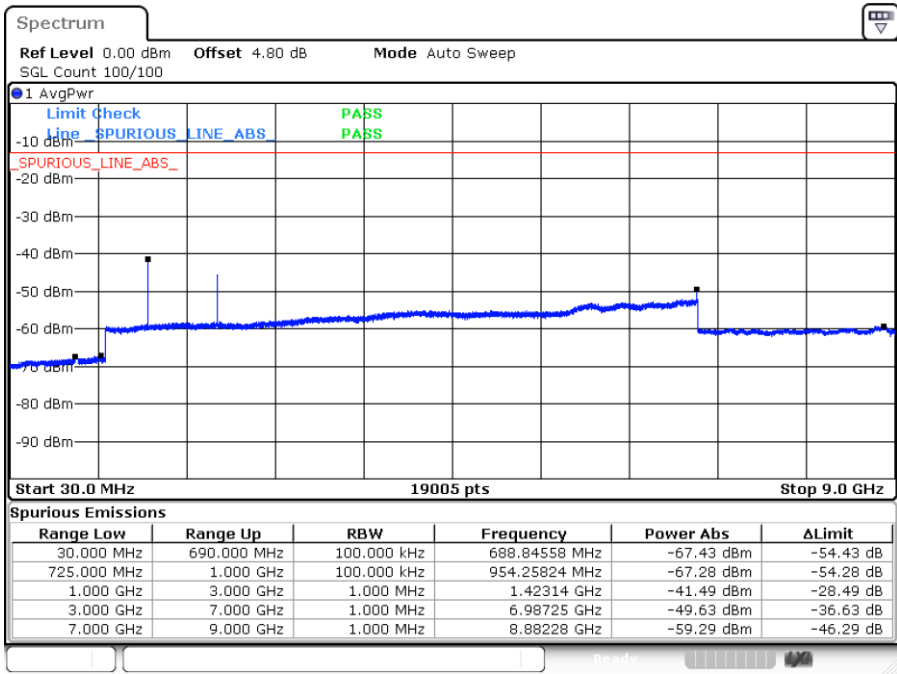
Middle Channel / QPSK



Date: 25.NOV.2021 06:38:14

Date: 25.NOV.2021 06:39:38

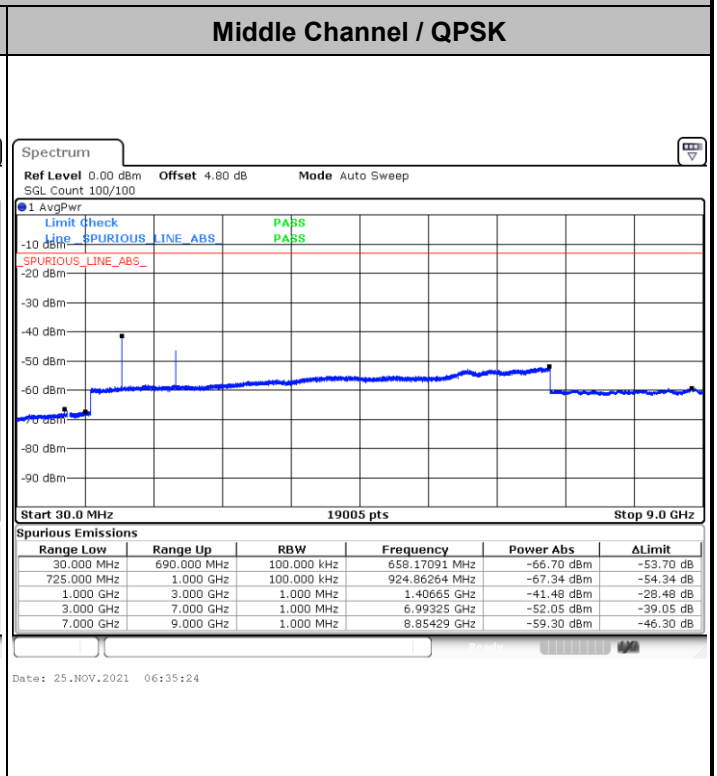
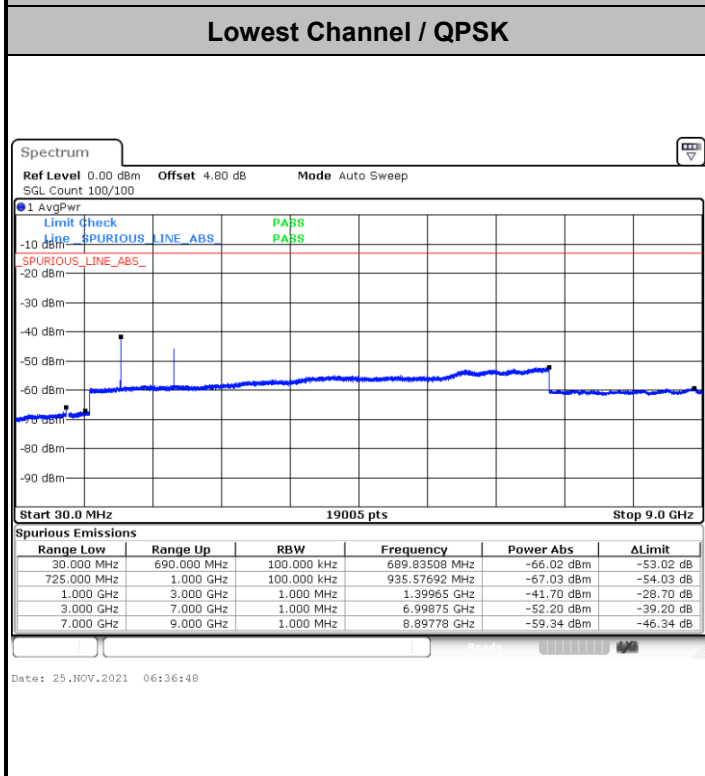
Highest Channel / QPSK



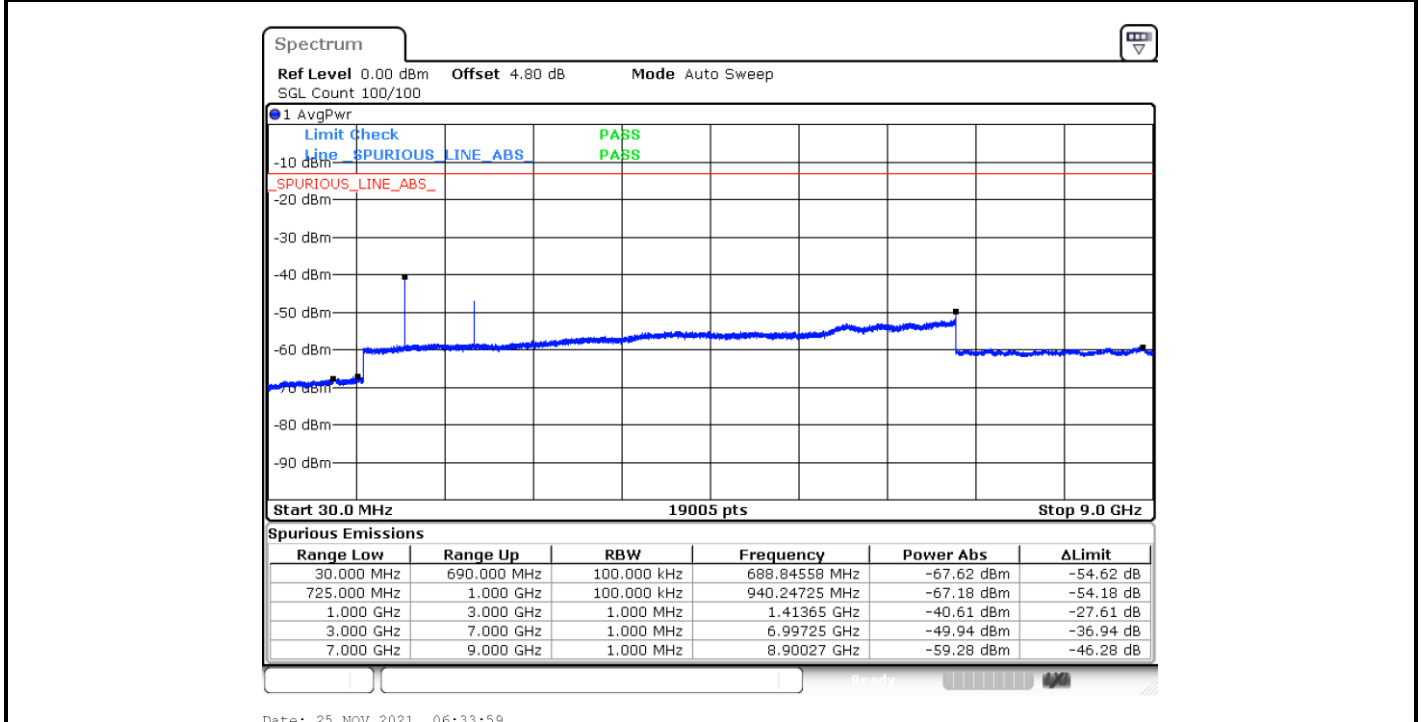
Date: 25.NOV.2021 06:41:02



LTE Band 12 / 10MHz



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0008	

Note:

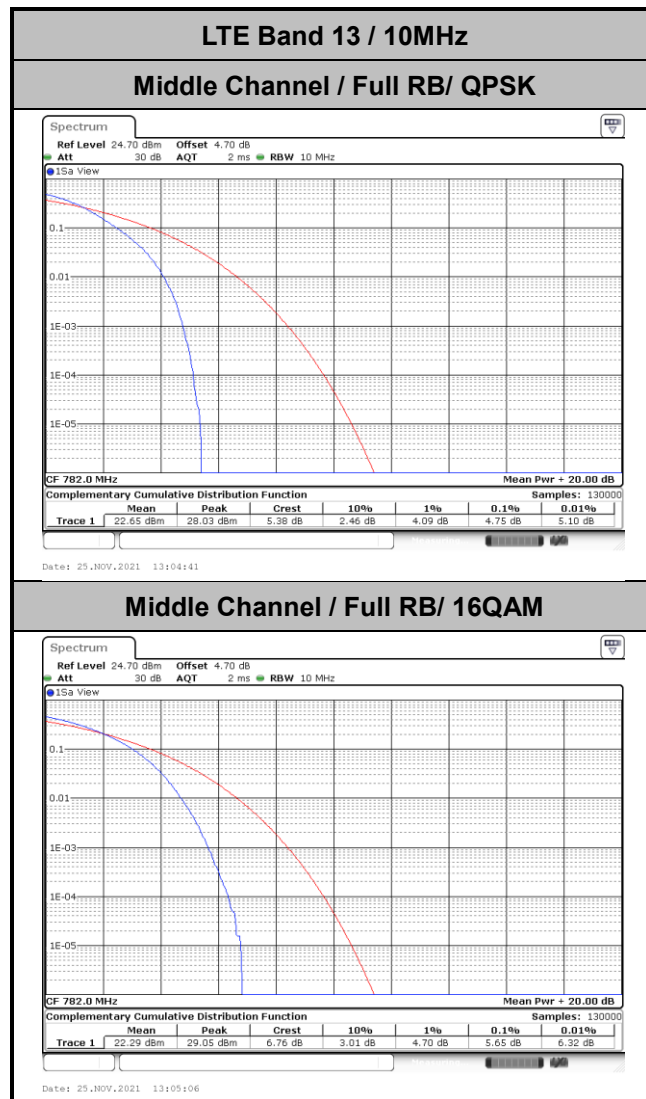
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

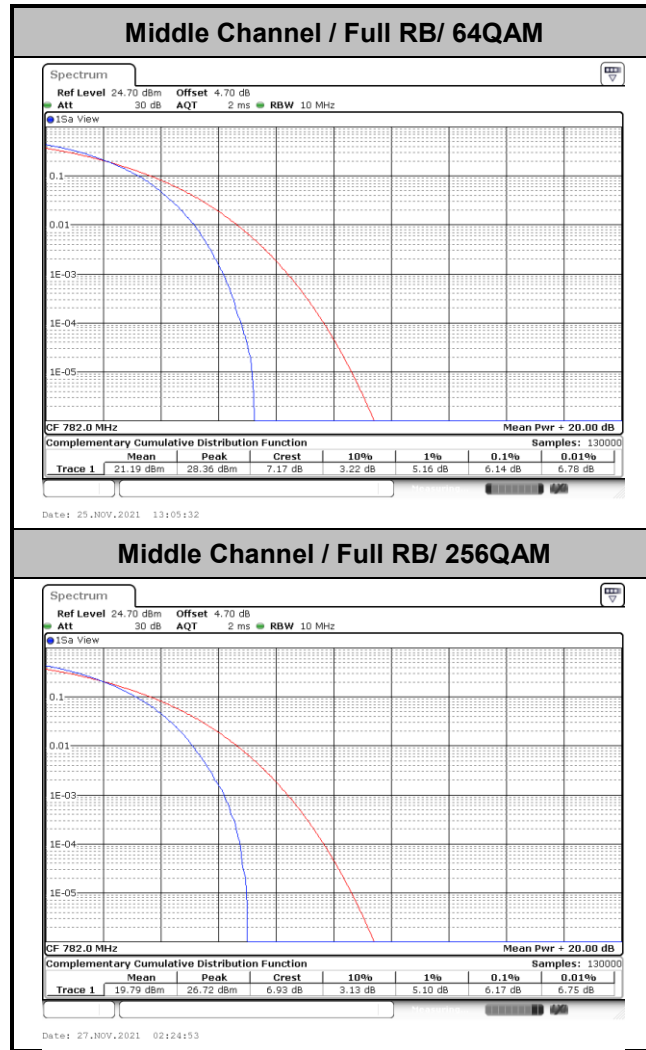


LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.65	6.14	6.17	PASS

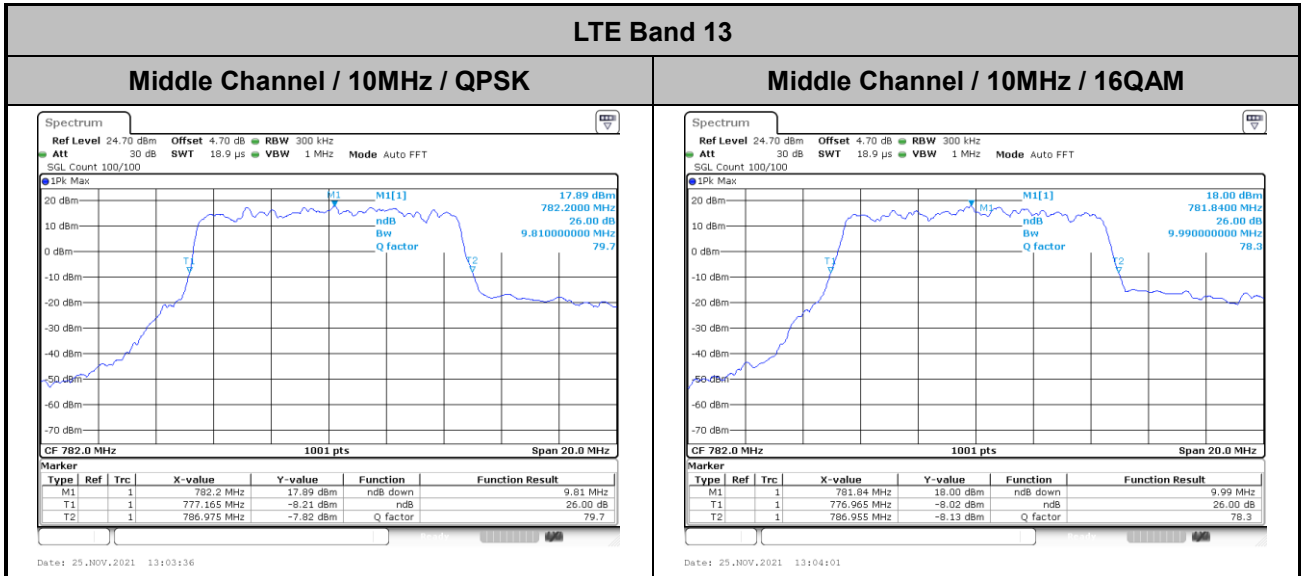






26dB Bandwidth

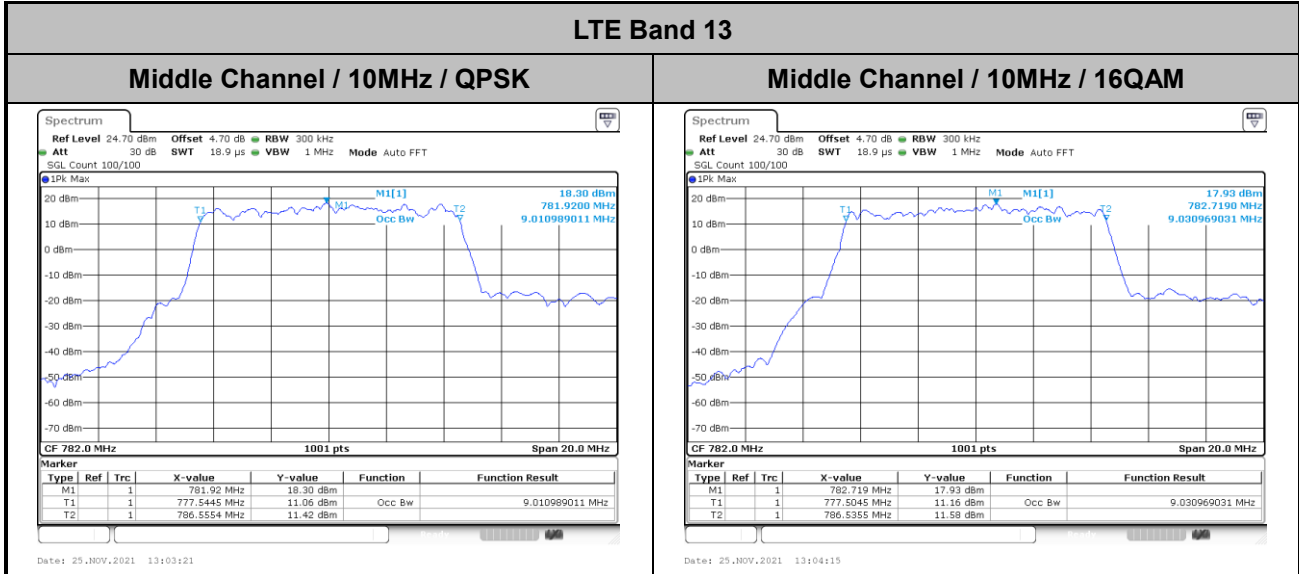
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.81	9.99





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	9.03

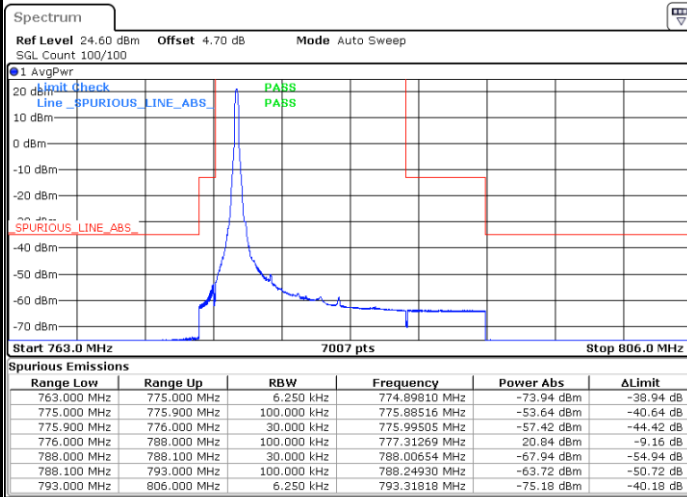




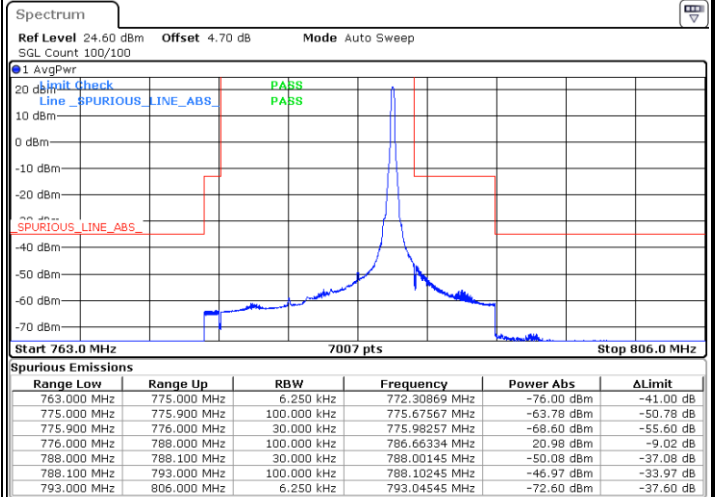
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

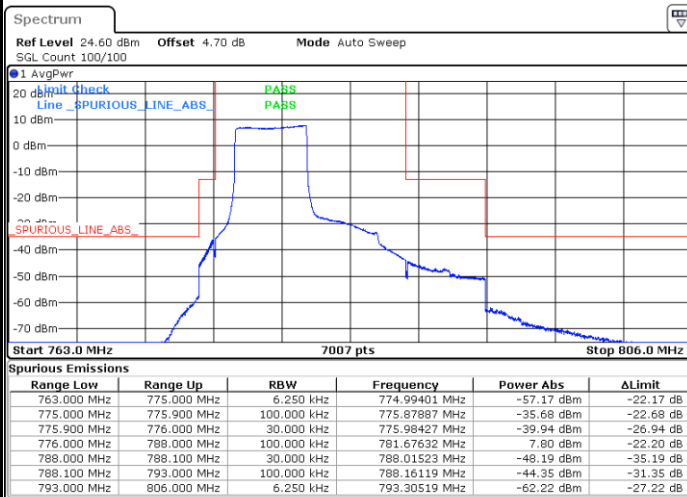
Lowest Band Edge / 1 RB



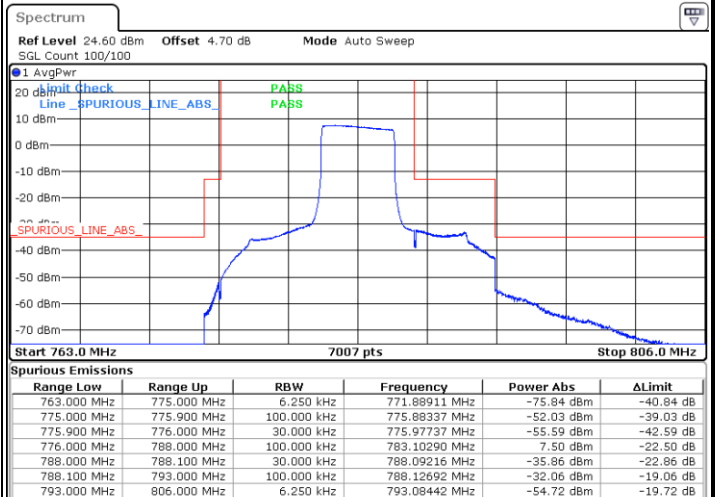
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

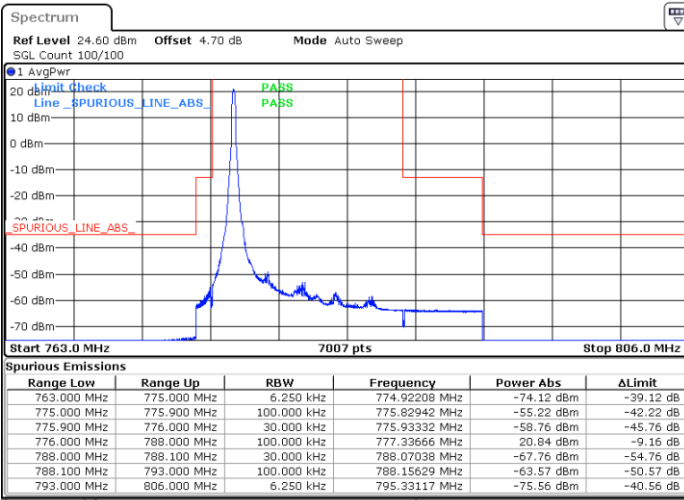




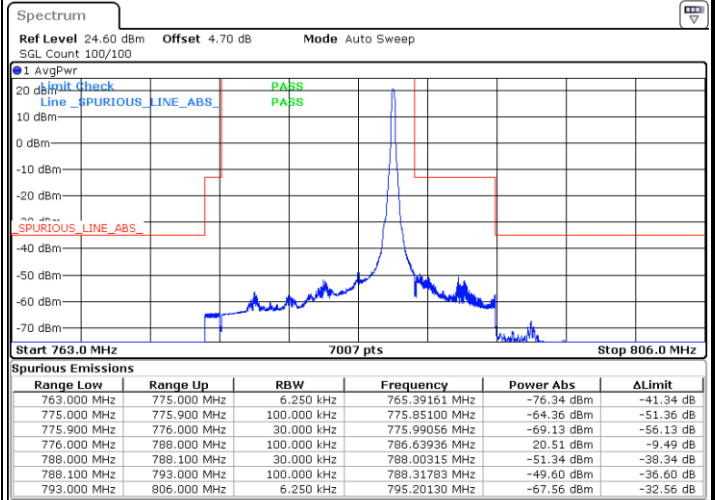
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



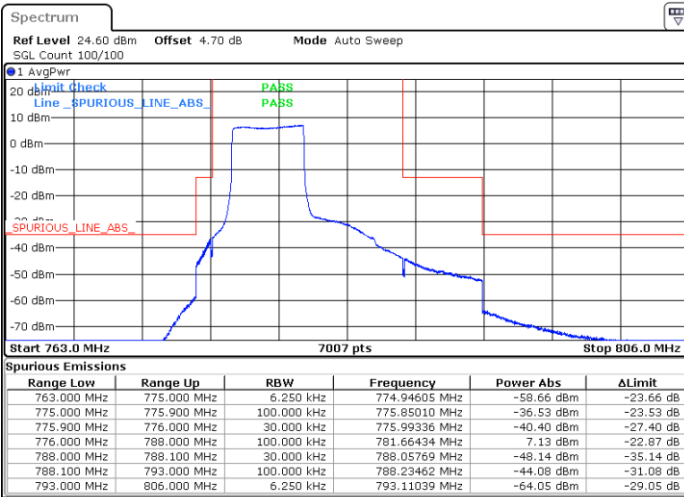
Date: 25.NOV.2021 12:22:45



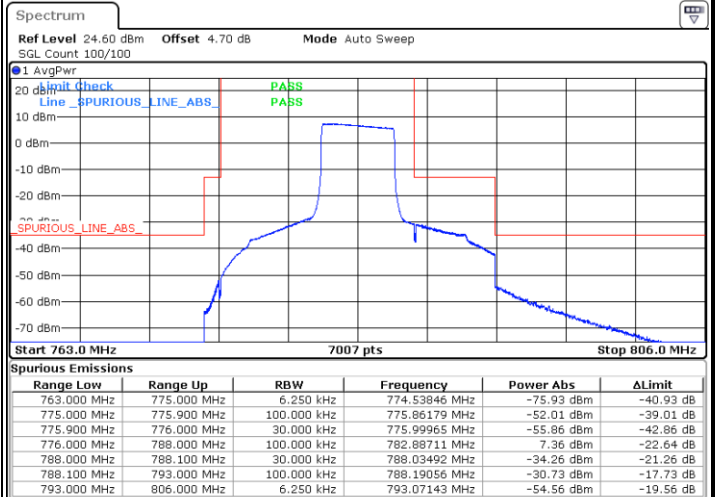
Date: 29 DEC 2021 02:14:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.NOV.2021 12:28:30



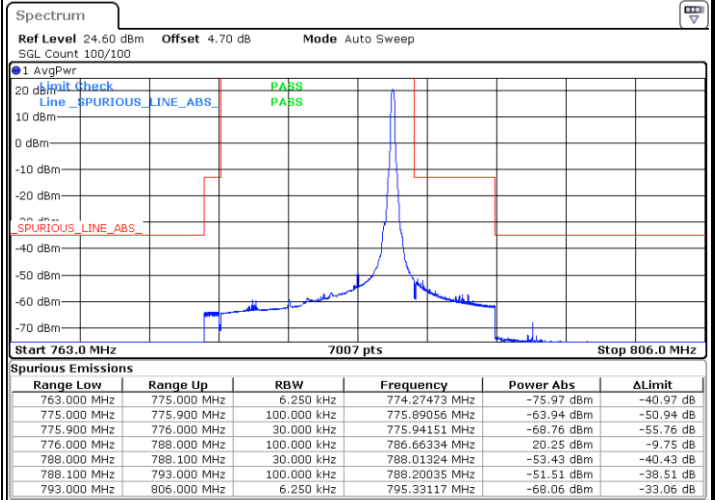
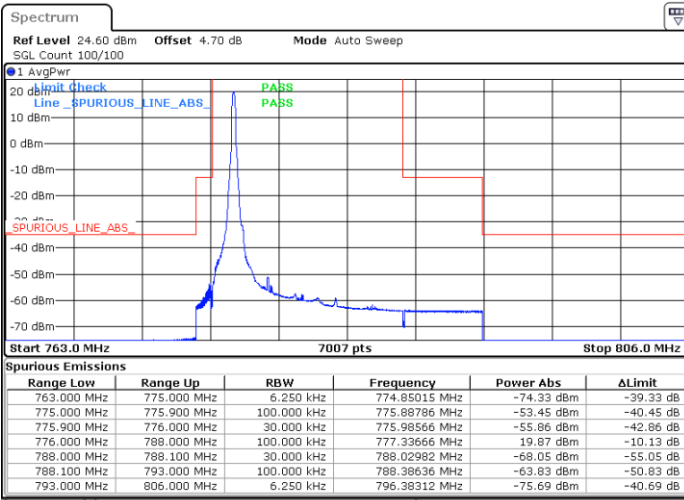
Date: 25.NOV.2021 12:42:42



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

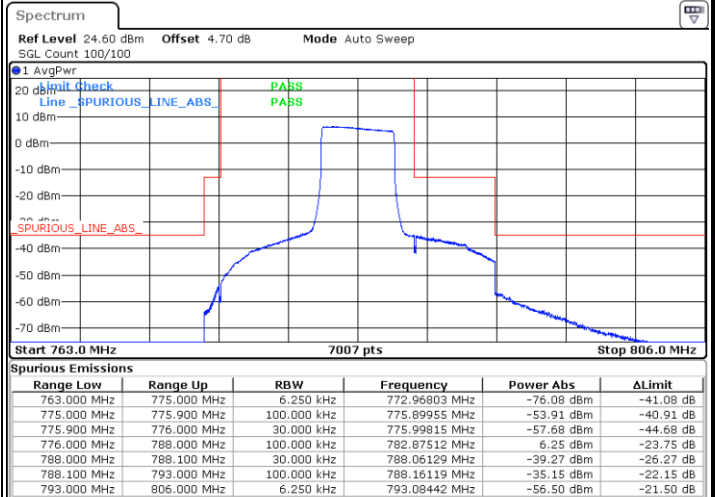
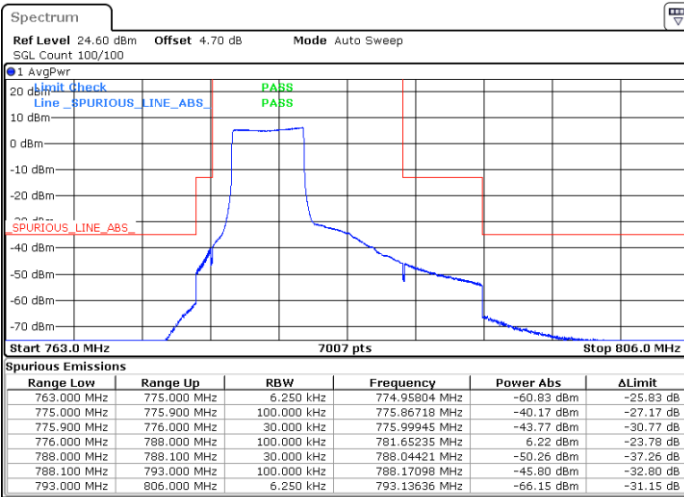


Date: 25.NOV.2021 12:24:42

Date: 25.NOV.2021 12:38:54

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.NOV.2021 12:26:36

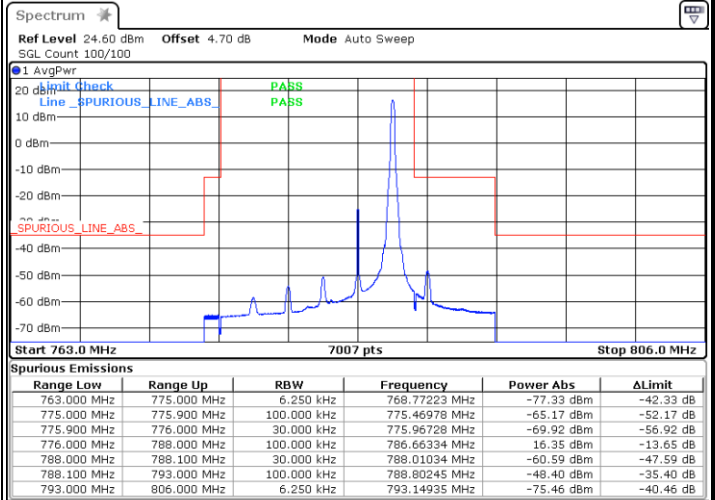
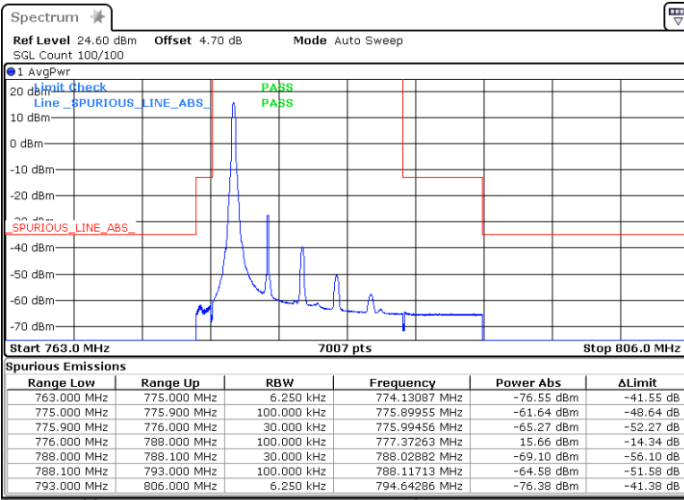
Date: 25.NOV.2021 12:40:48



LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

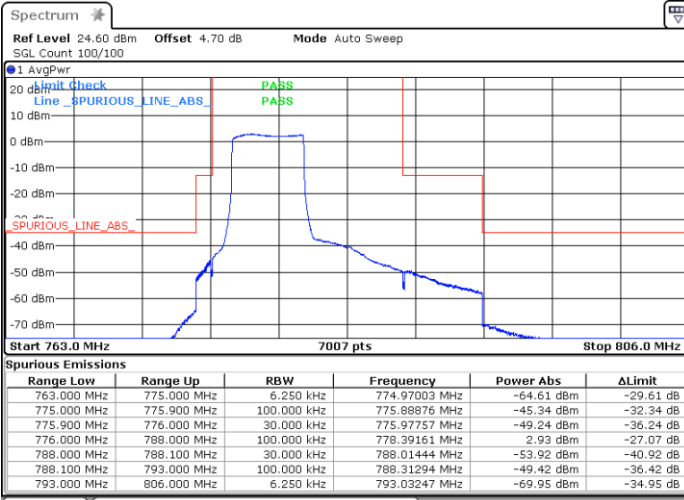


Date: 27.NOV.2021 02:09:19

Date: 27.NOV.2021 02:12:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.NOV.2021 02:00:45

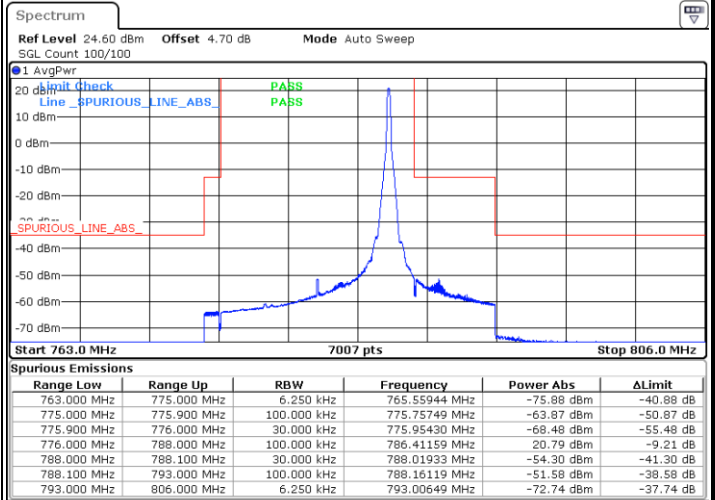
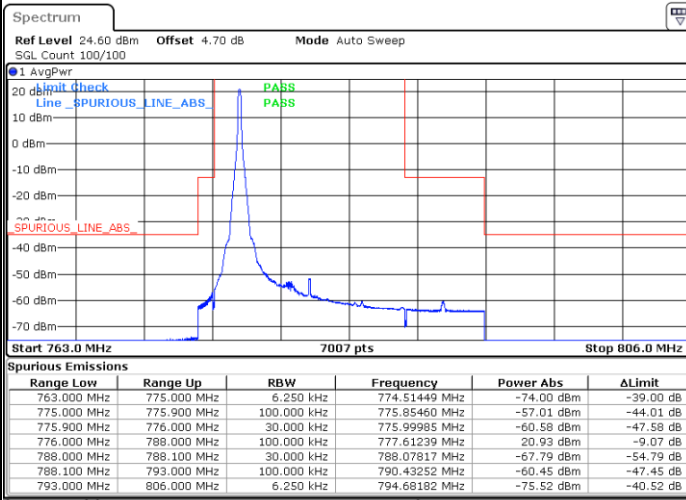
Date: 27.NOV.2021 02:16:28



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

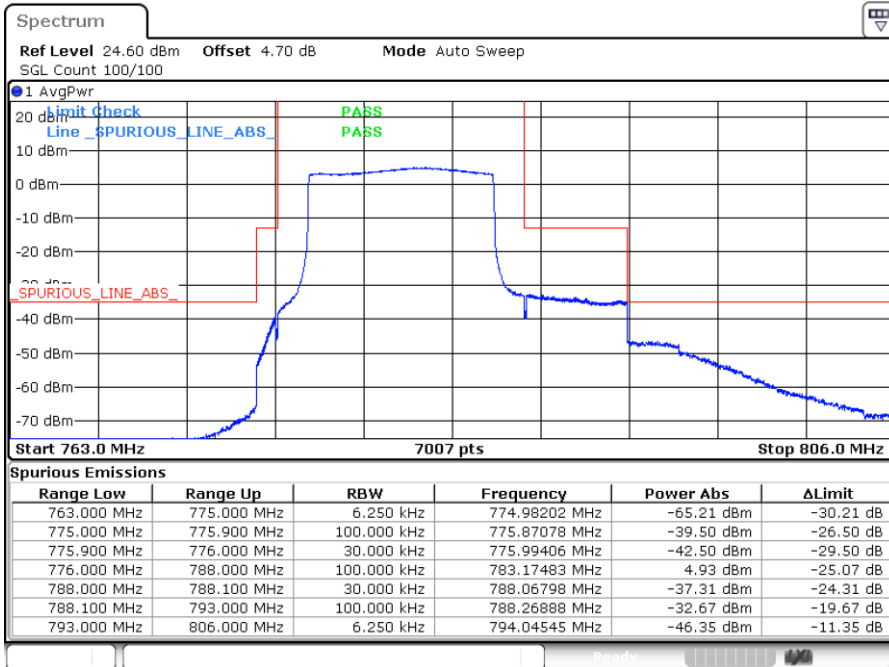
middle Band Edge / 1 RB



Date: 25.NOV.2021 12:46:29

Date: 25.NOV.2021 12:55:53

Middle Band Edge / Full RB



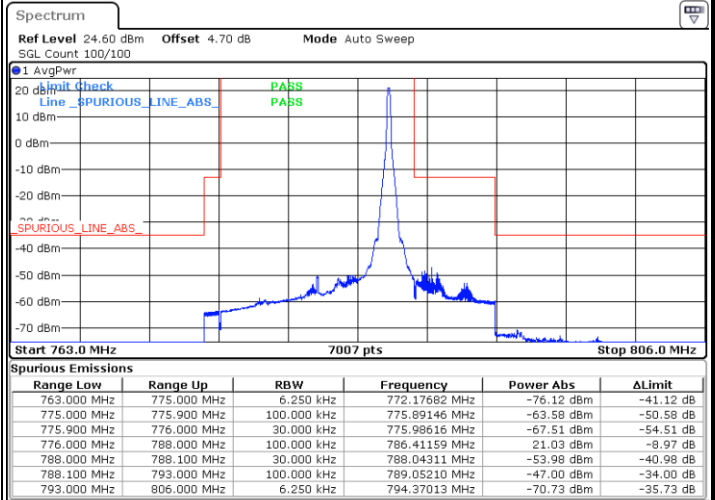
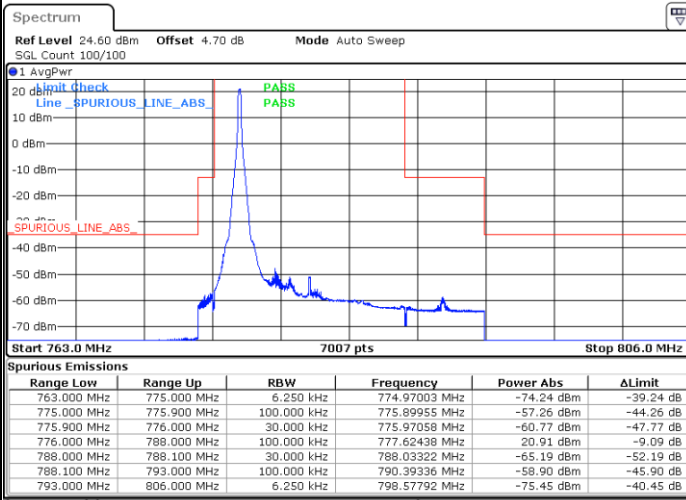
Date: 25.NOV.2021 12:57:46



LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB

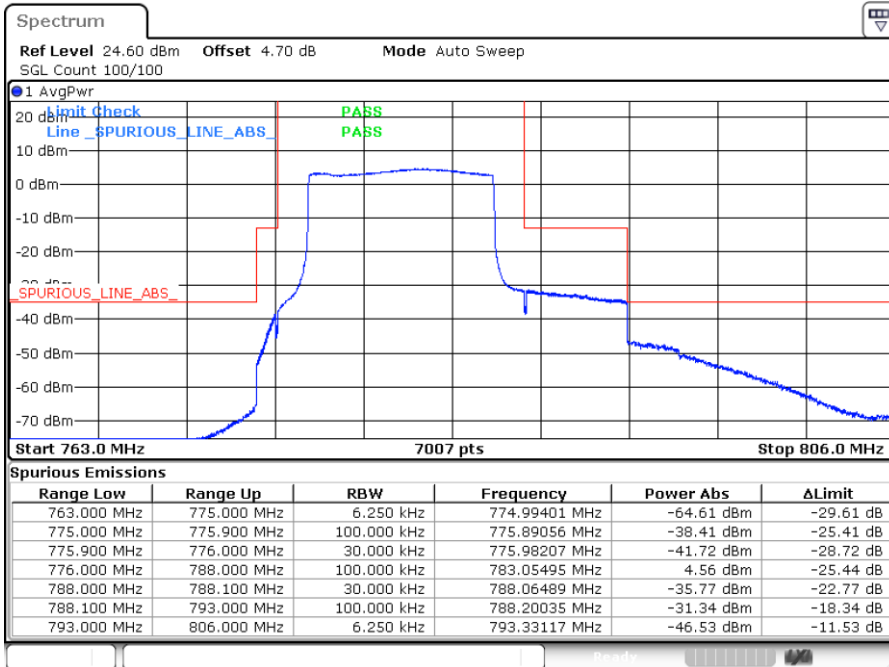
middle Band Edge / 1 RB



Date: 25.NOV.2021 12:48:22

Date: 25.NOV.2021 12:54:01

middle Band Edge / Full RB

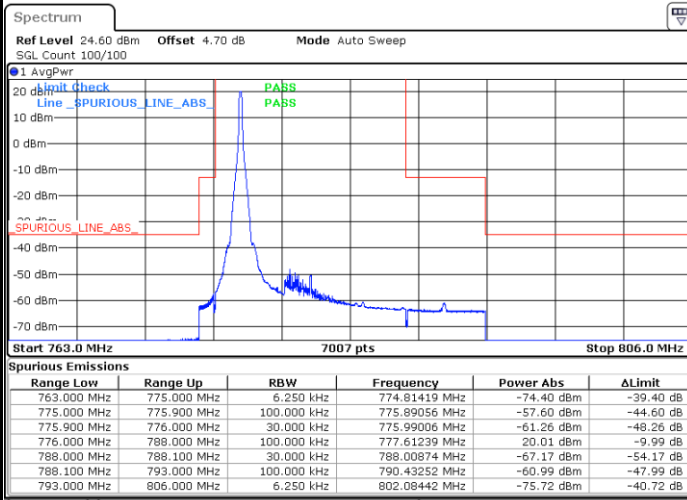


Date: 25.NOV.2021 12:59:39



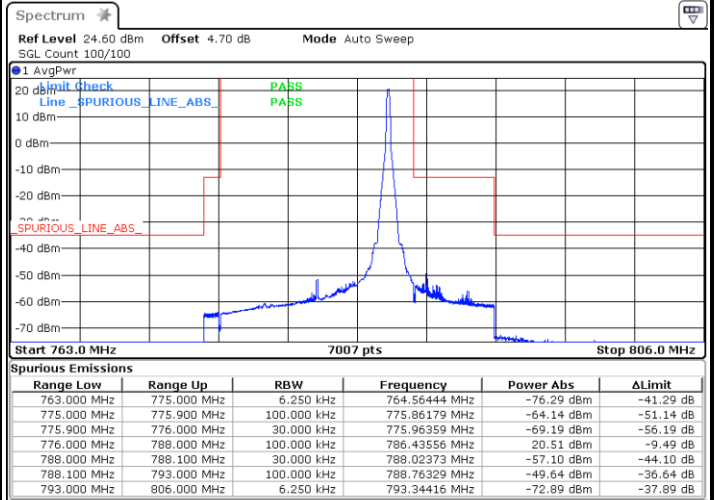
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



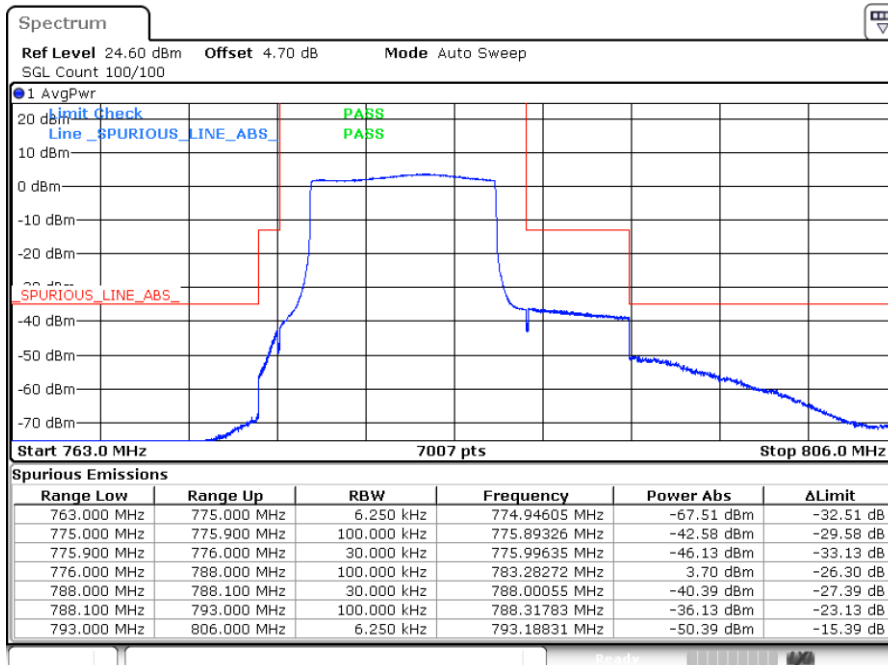
Date: 25.NOV.2021 12:50:15

middle Band Edge / 1 RB



Date: 29 DEC.2021 02:17:20

middle Band Edge / Full RB

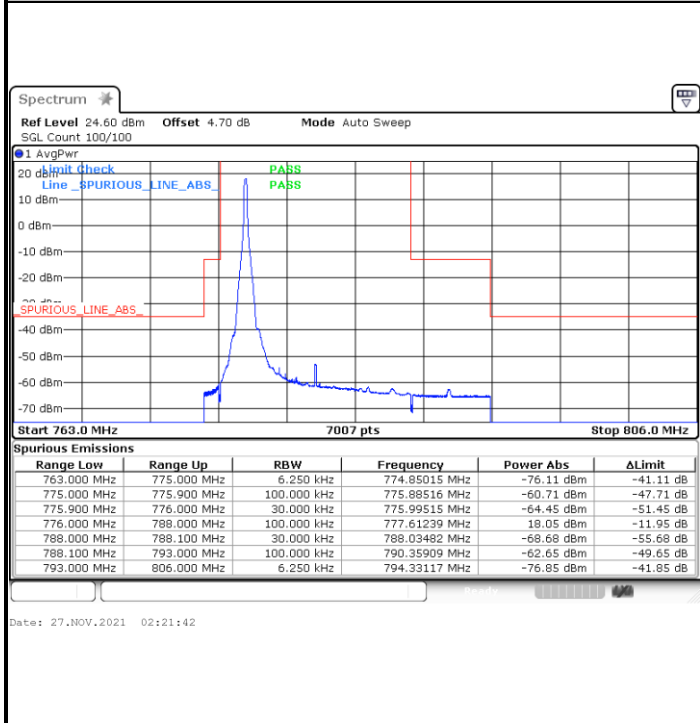


Date: 25.NOV.2021 13:01:32

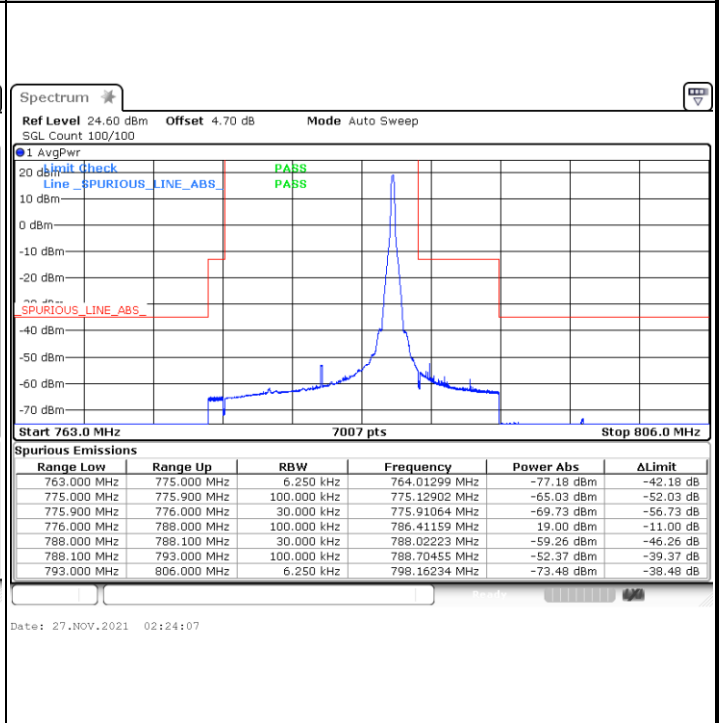


LTE Band 13 / 10MHz / 256QAM

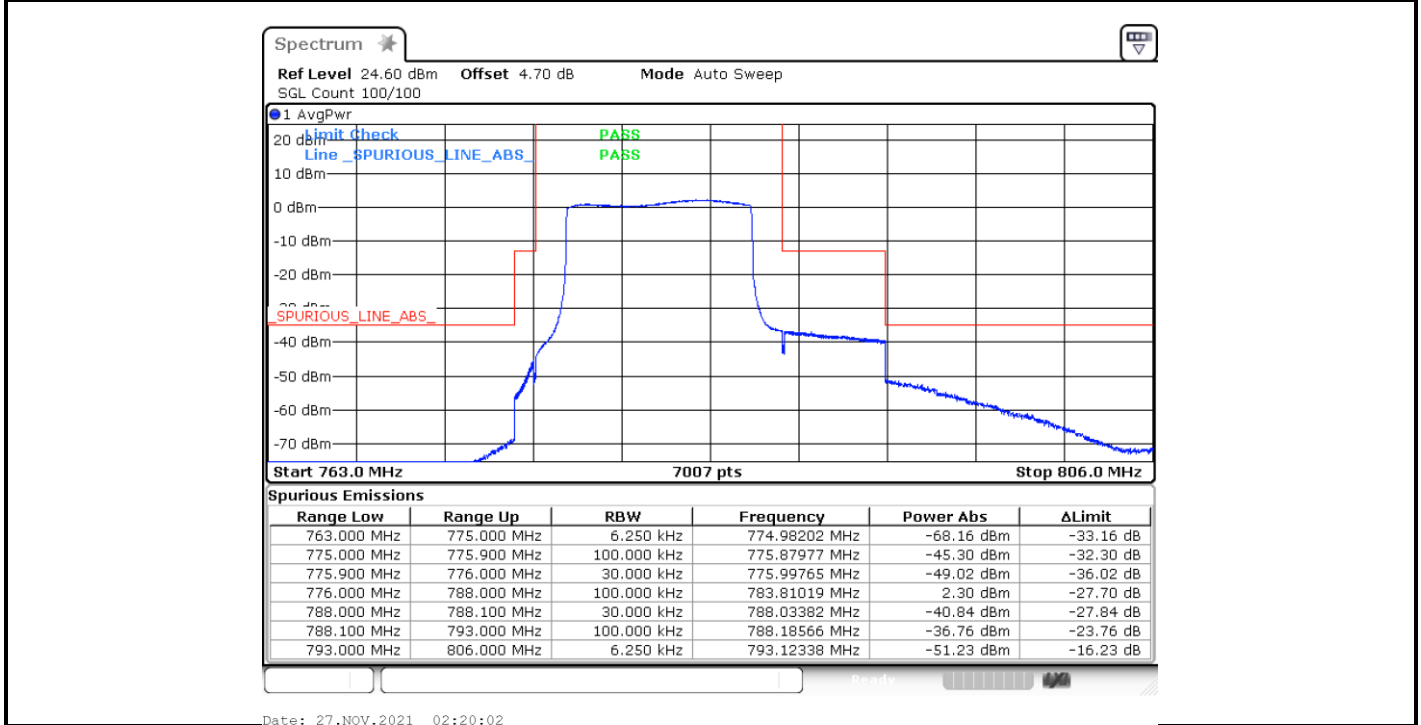
middle Band Edge / 1 RB



middle Band Edge / 1 RB

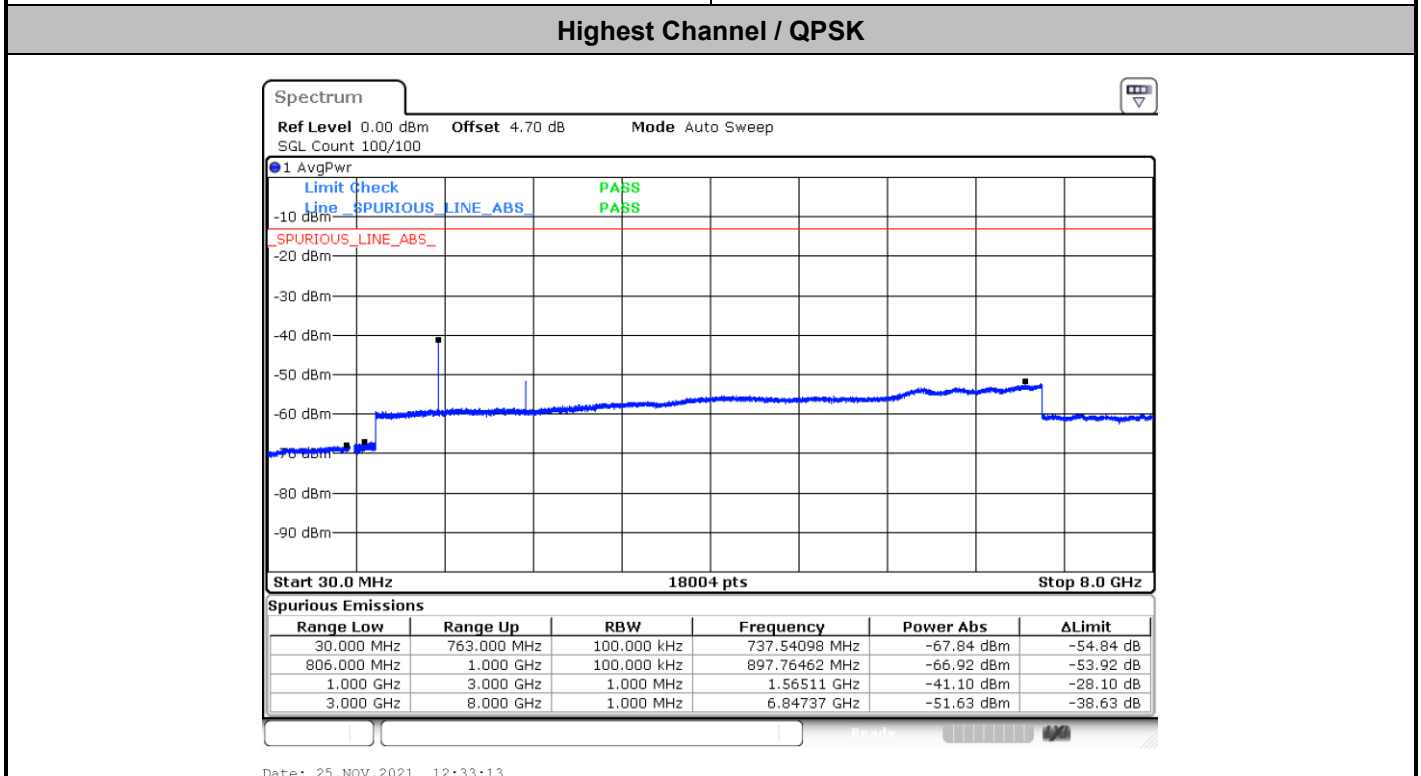
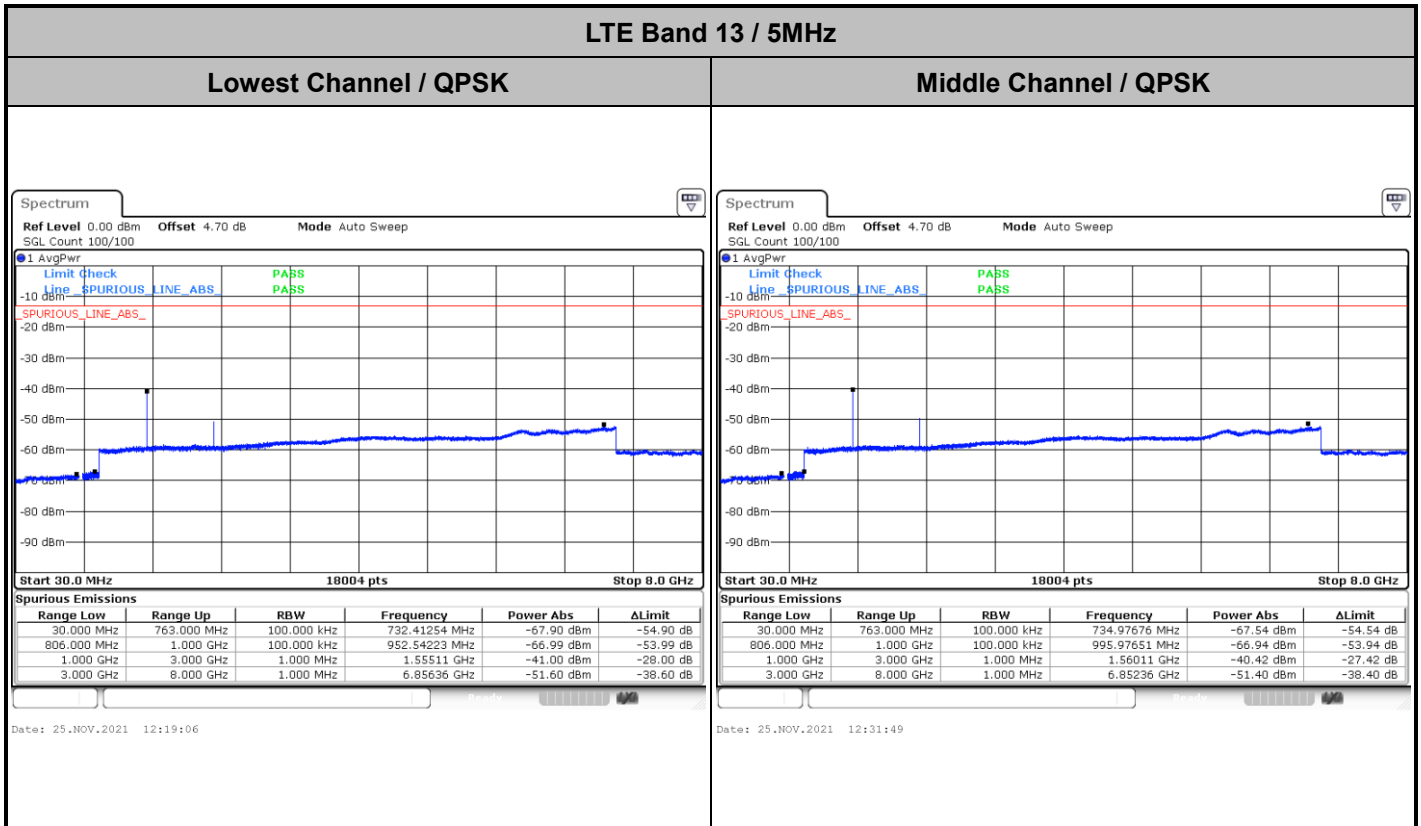


middle Band Edge / Full RB





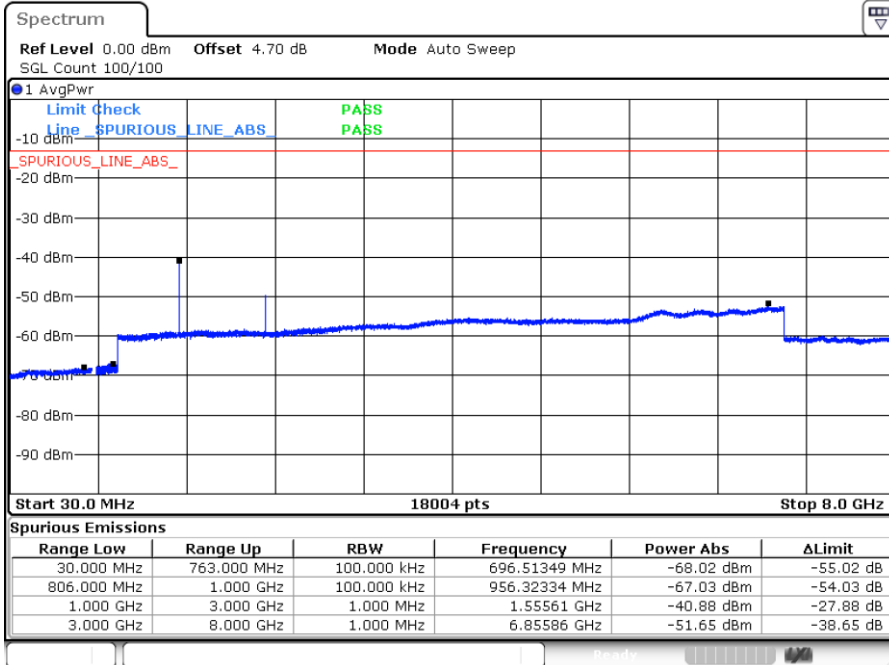
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 25.NOV.2021 13:02:57



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	0.0006	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0014	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0017	

Note:

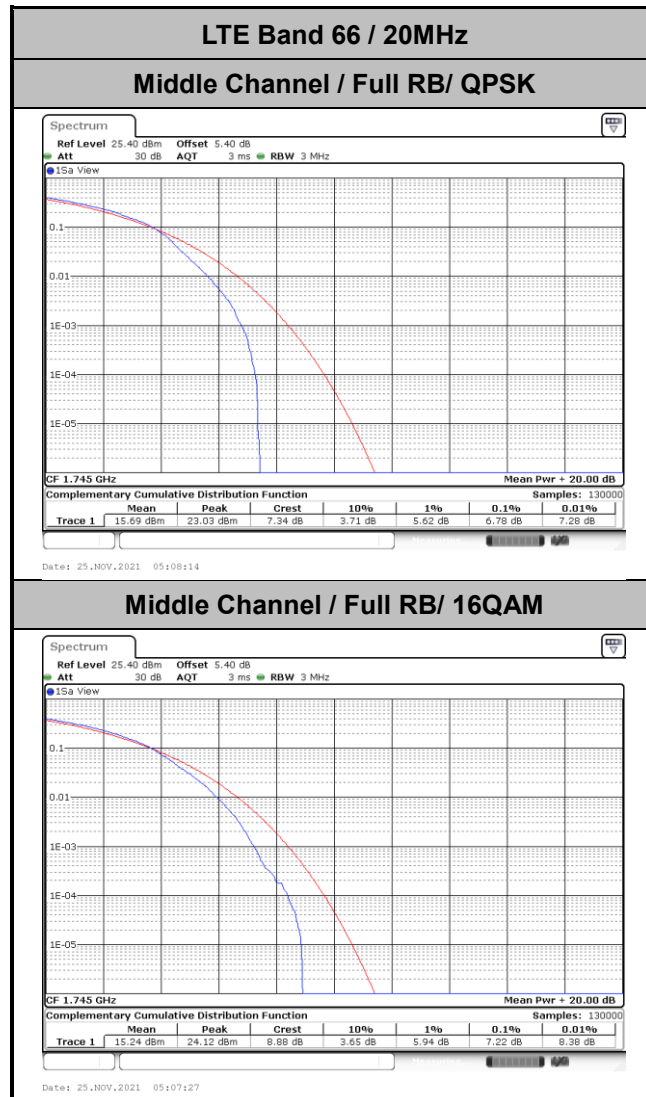
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

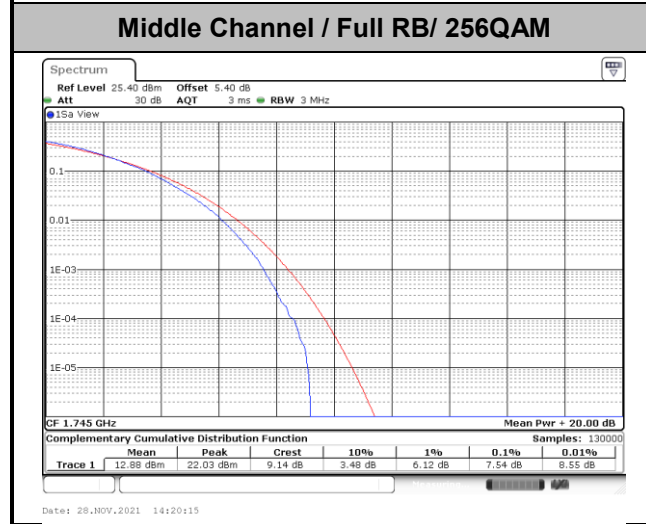
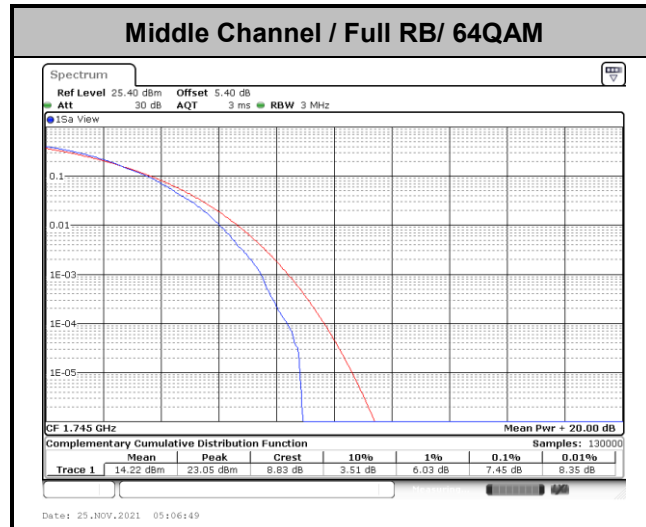


LTE Band 66

Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	6.78	7.22	7.45	PASS
Mode	LTE Band 66 / 20MHz			
Mod.	256QAM			Limit: 13dB
RB Size	Full RB			Result
Middle CH	7.54			PASS

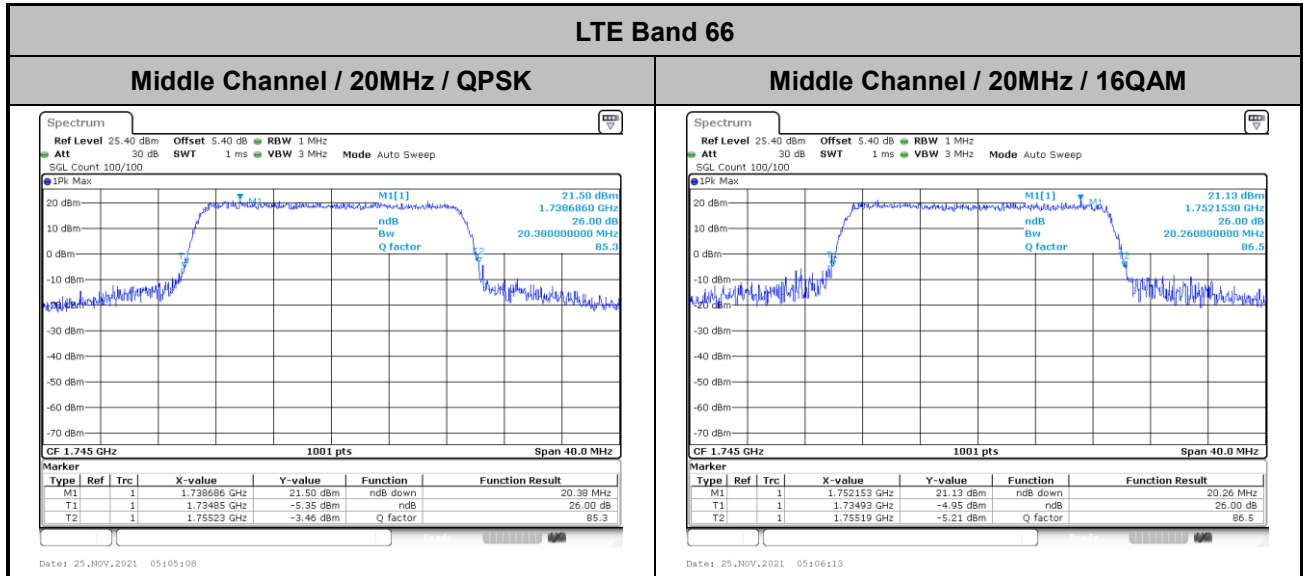






26dB Bandwidth

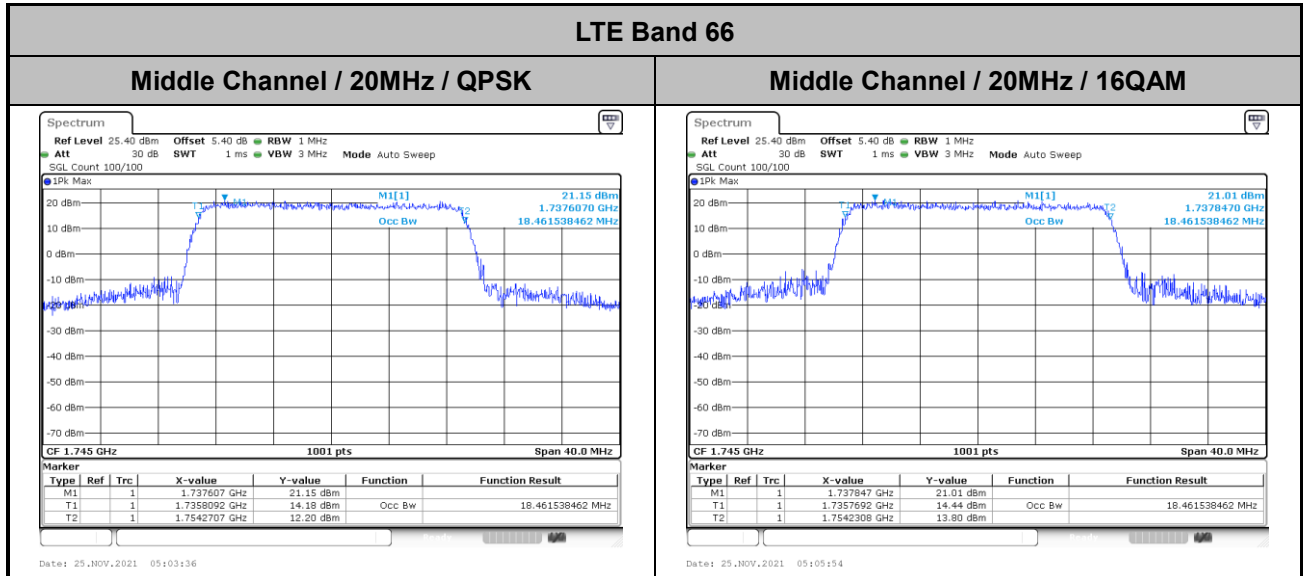
Mode	LTE Band 66 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.38	20.26





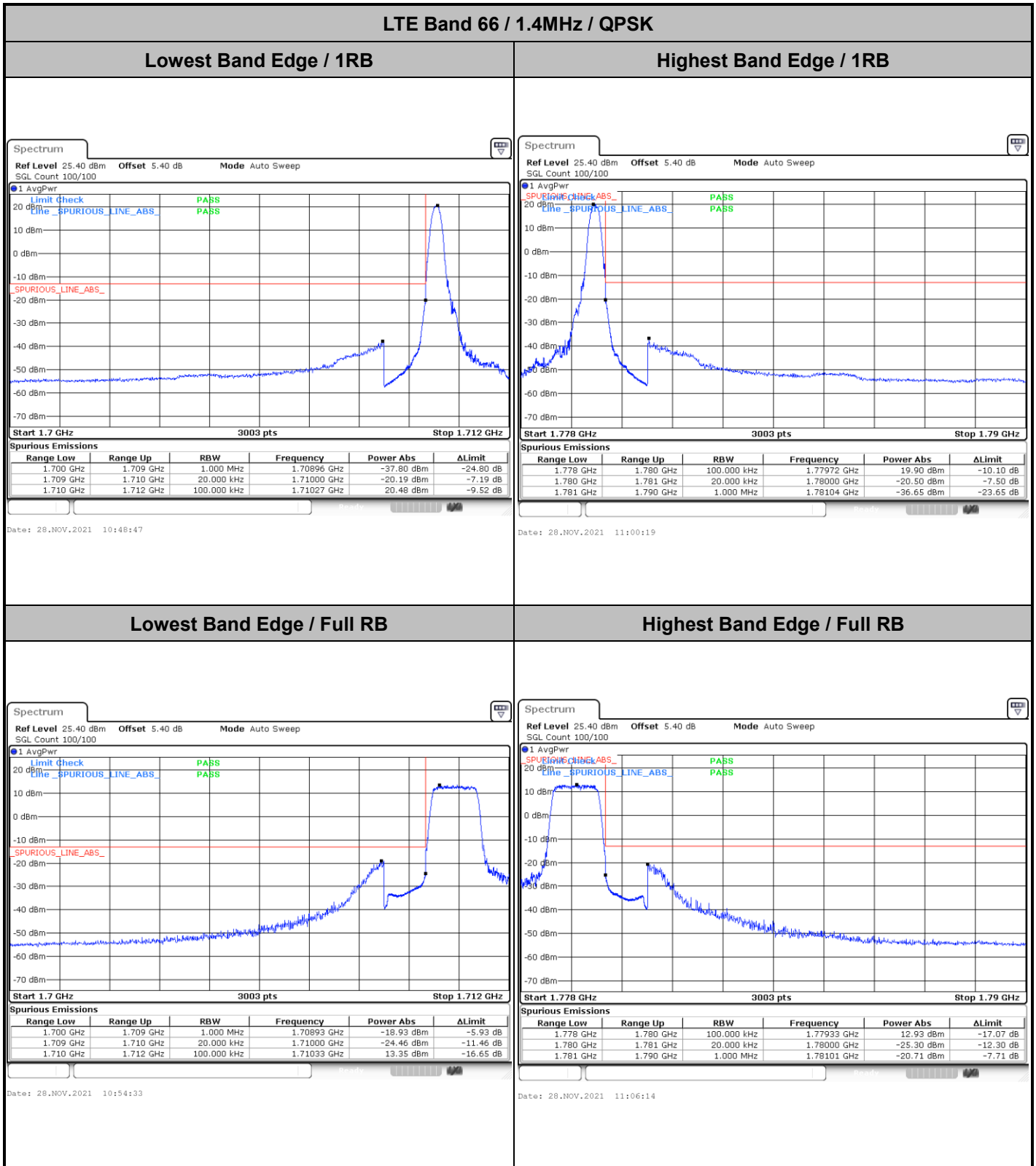
Occupied Bandwidth

Mode	LTE Band 66 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.46	18.46





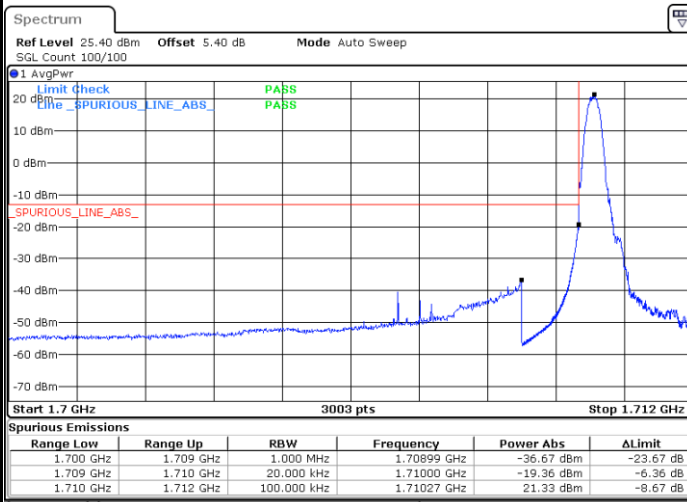
Conducted Band Edge





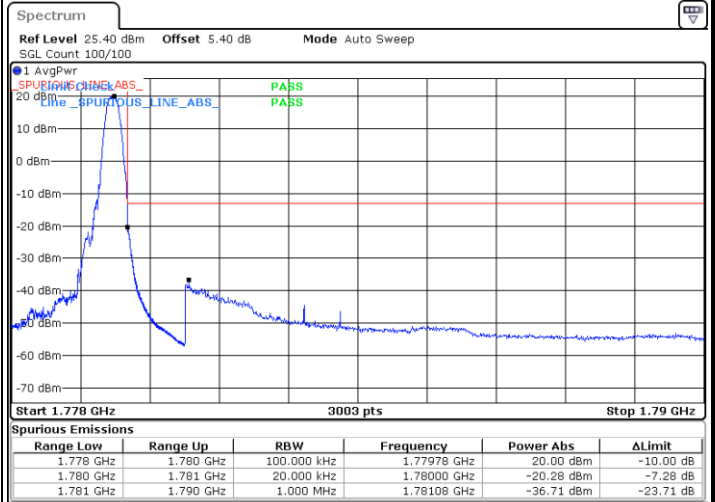
LTE Band 66 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



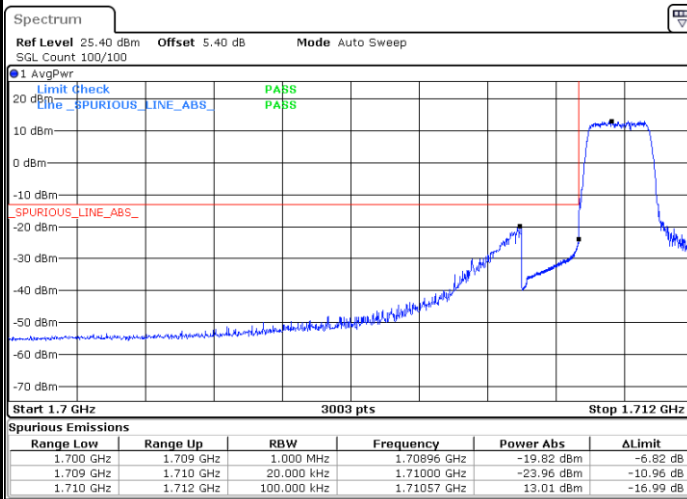
Date: 28.NOV.2021 10:50:13

Highest Band Edge / 1 RB



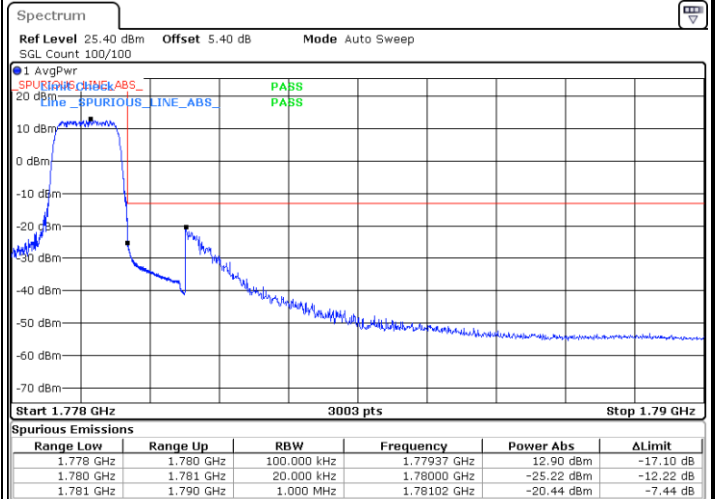
Date: 28.NOV.2021 11:01:45

Lowest Band Edge / Full RB



Date: 28.NOV.2021 10:55:59

Highest Band Edge / Full RB

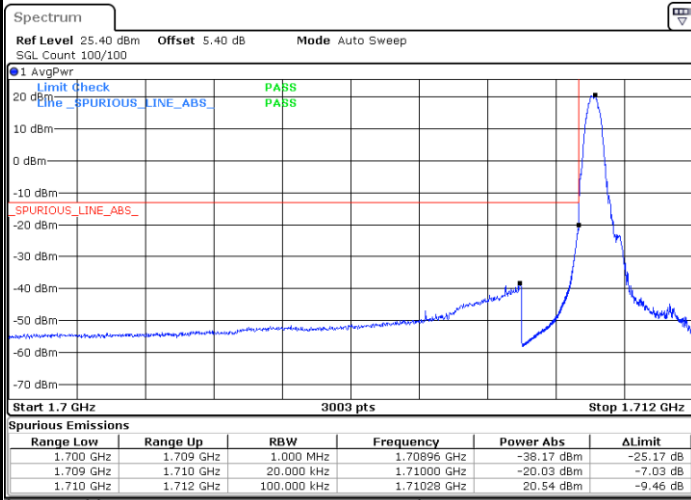


Date: 28.NOV.2021 11:07:41



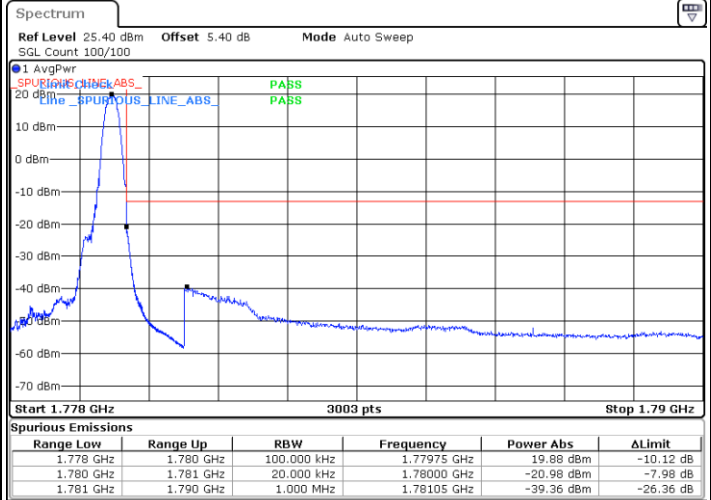
LTE Band 66 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



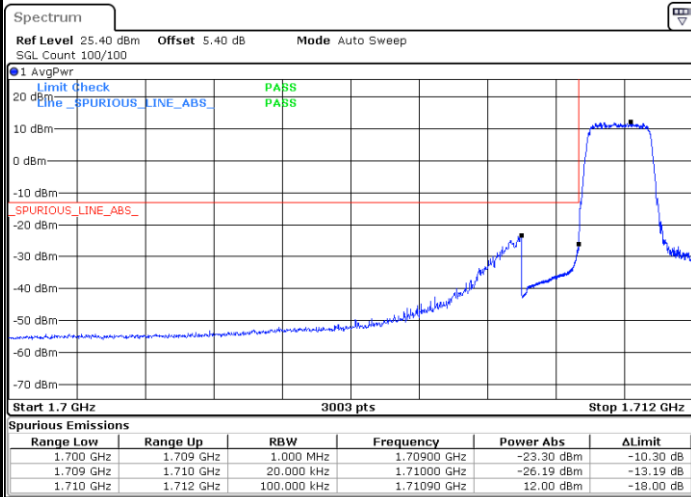
Date: 28.NOV.2021 10:51:39

Highest Band Edge / 1 RB



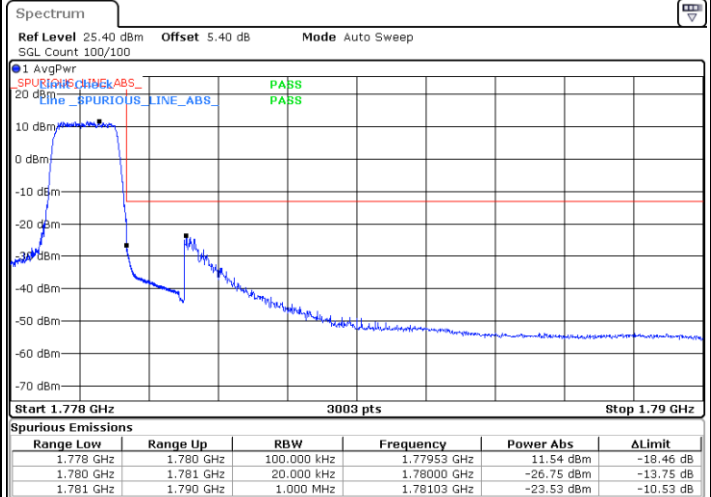
Date: 28.NOV.2021 11:03:12

Lowest Band Edge / Full RB



Date: 28.NOV.2021 10:57:26

Highest Band Edge / Full RB

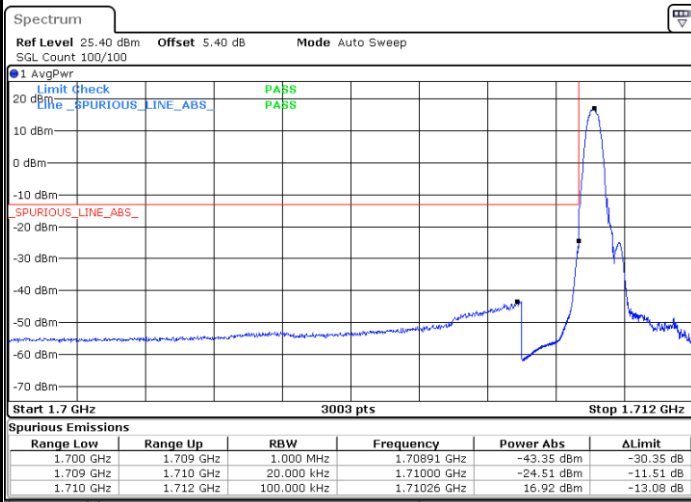


Date: 28.NOV.2021 11:09:08



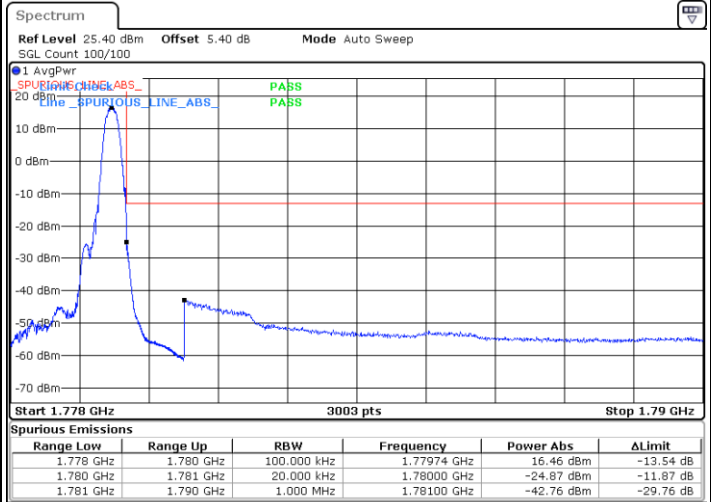
LTE Band 66 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



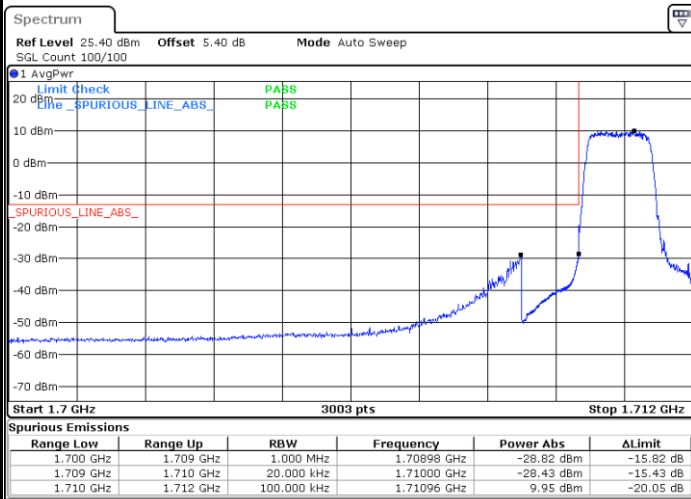
Date: 28.NOV.2021 10:53:06

Highest Band Edge / 1 RB



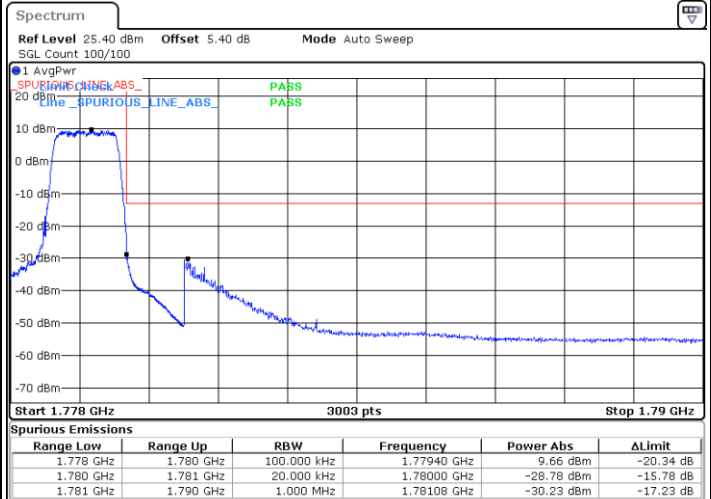
Date: 28.NOV.2021 11:04:48

Lowest Band Edge / Full RB



Date: 28.NOV.2021 10:58:52

Highest Band Edge / Full RB

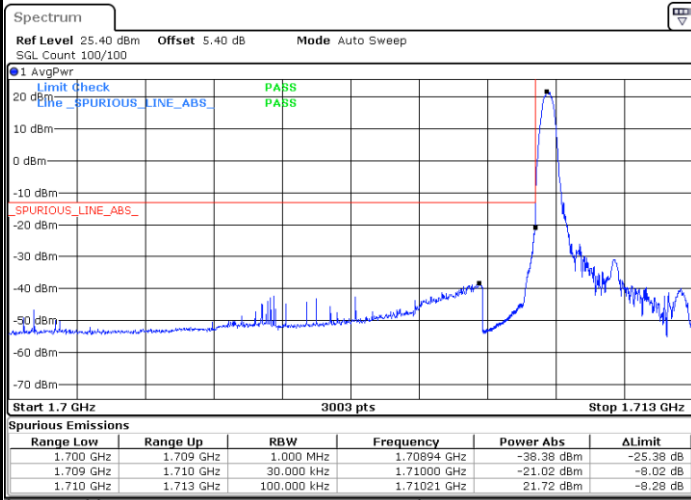


Date: 28.NOV.2021 11:10:34



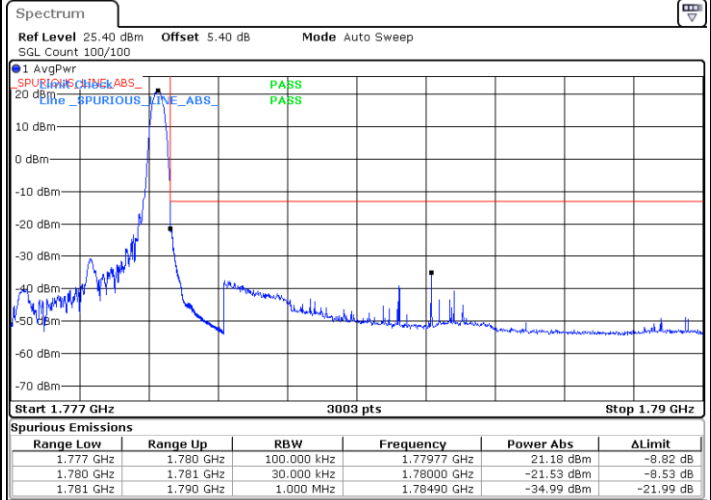
LTE Band 66 / 3MHz / QPSK

Lowest Band Edge / 1RB



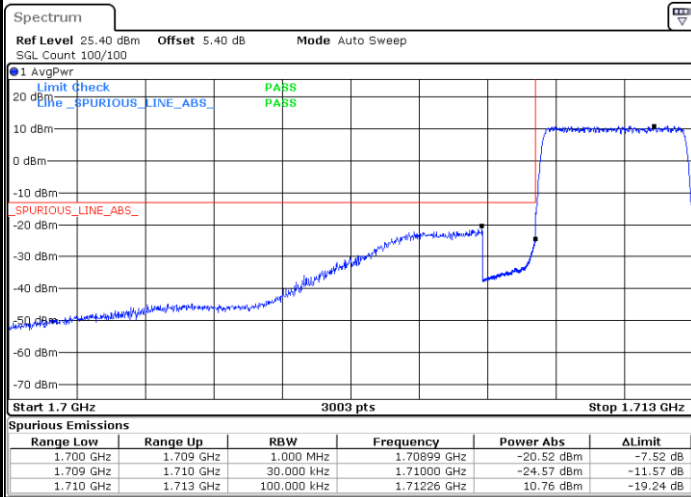
Date: 25.NOV.2021 03:09:17

Highest Band Edge / 1 RB



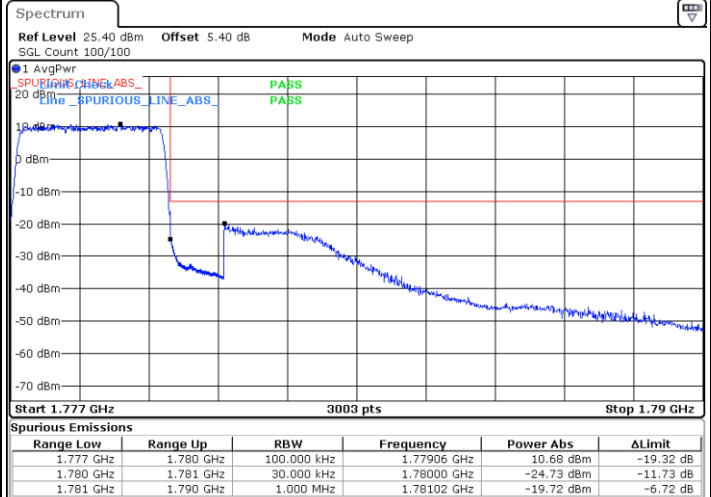
Date: 25.NOV.2021 03:14:52

Lowest Band Edge / Full RB



Date: 25.NOV.2021 03:12:05

Highest Band Edge / Full RB

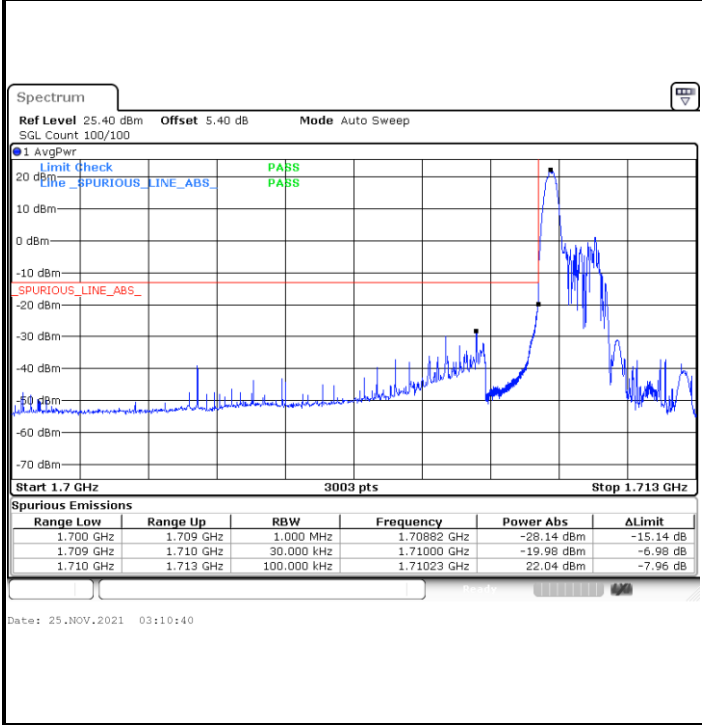


Date: 25.NOV.2021 03:17:40

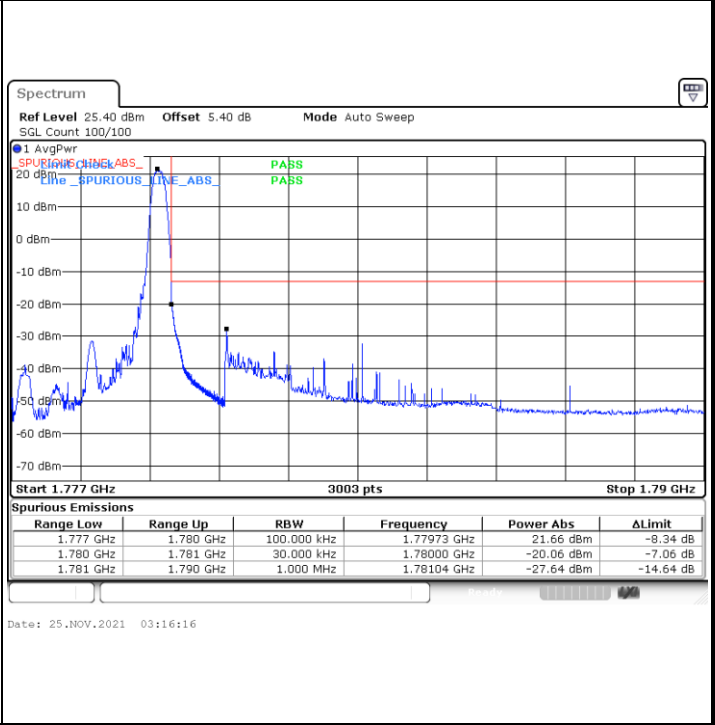


LTE Band 66 / 3MHz / 16QAM

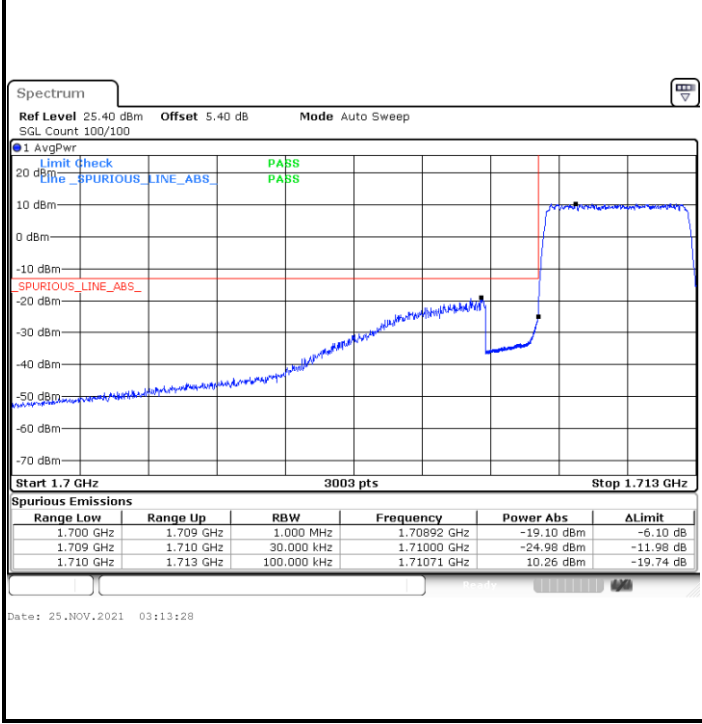
Lowest Band Edge / 1 RB



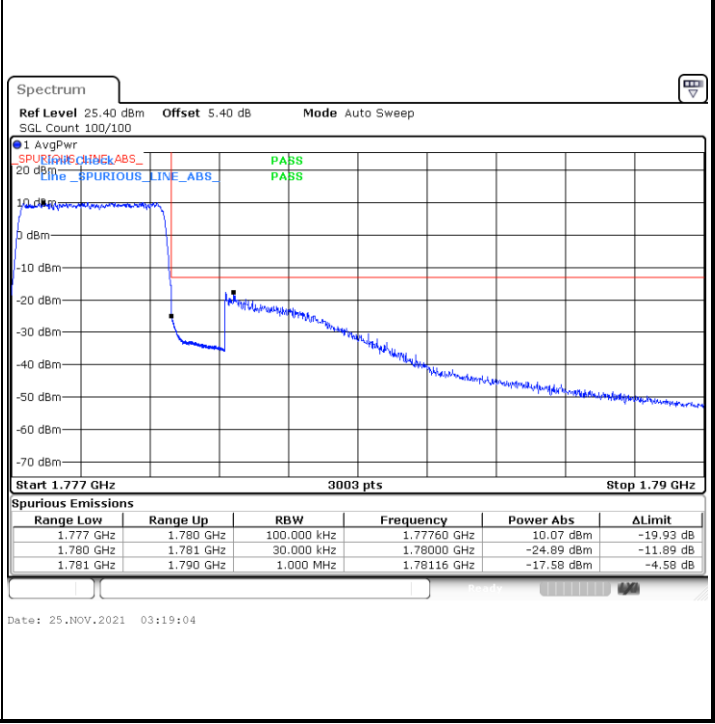
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



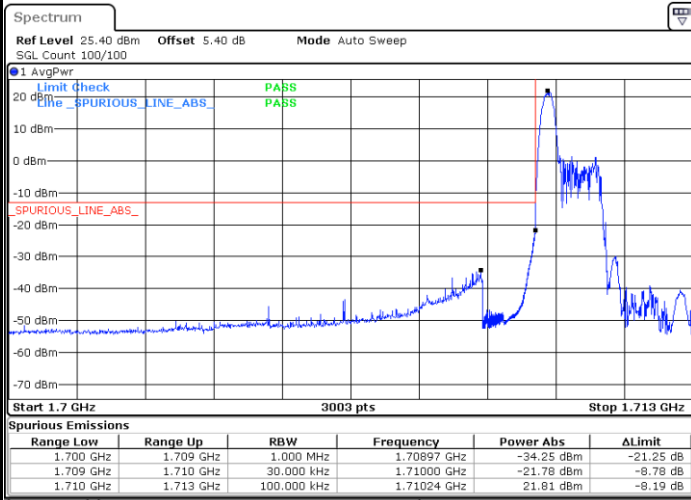
Highest Band Edge / Full RB





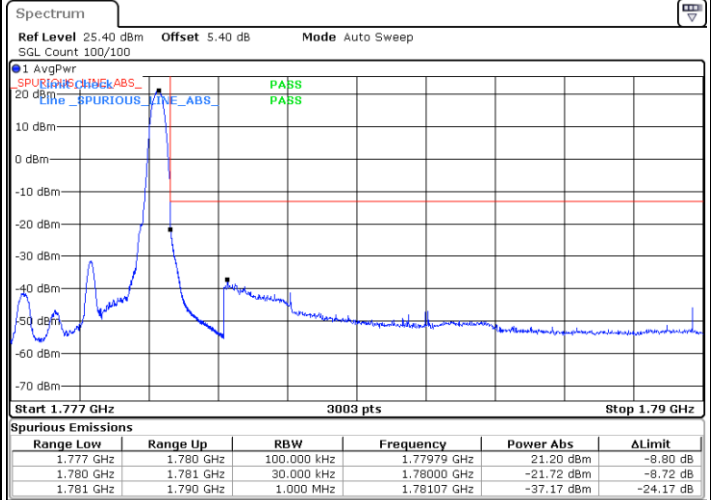
LTE Band 66 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



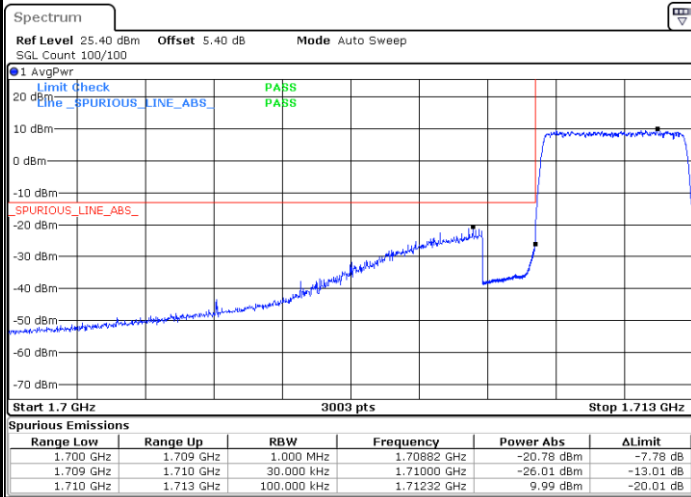
Date: 25.NOV.2021 03:20:28

Highest Band Edge / 1 RB



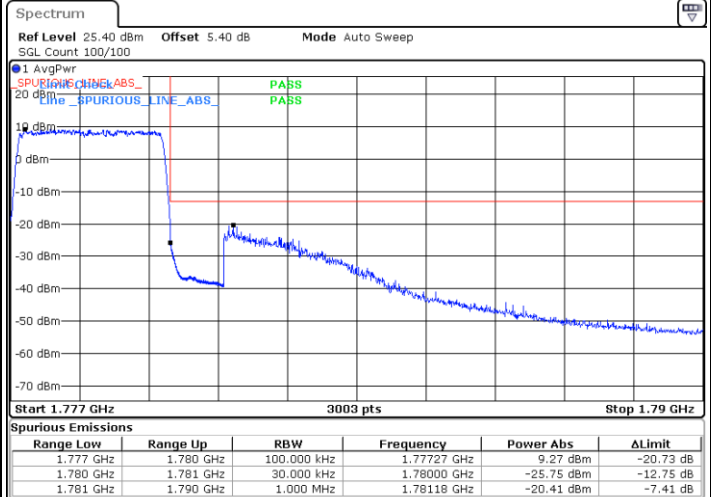
Date: 25.NOV.2021 03:23:16

Lowest Band Edge / Full RB



Date: 25.NOV.2021 03:21:52

Highest Band Edge / Full RB

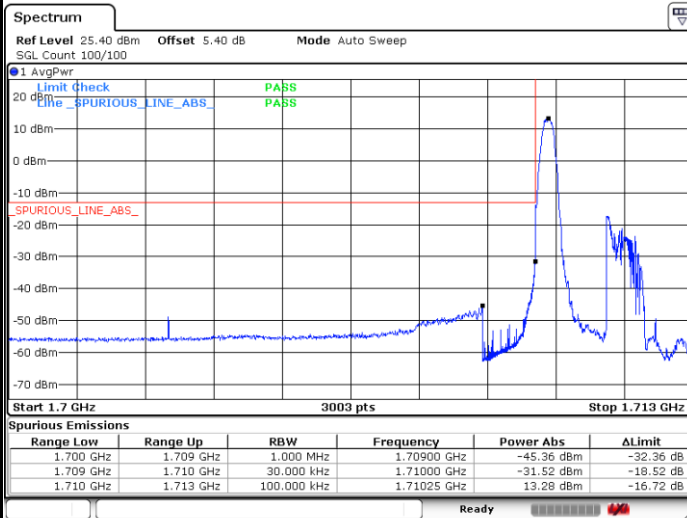


Date: 25.NOV.2021 03:24:40



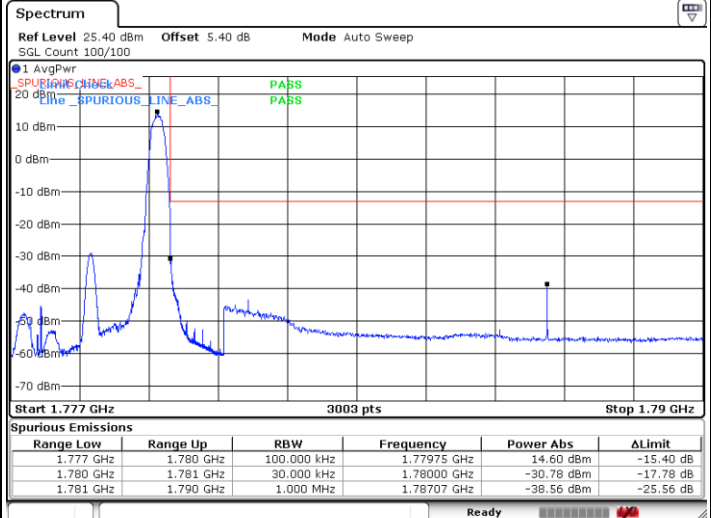
LTE Band 66 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



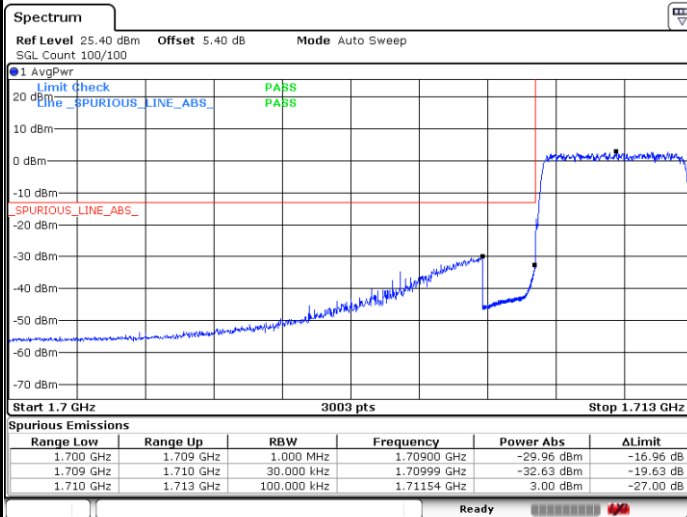
Date: 28.NOV.2021 13:15:25

Highest Band Edge / 1 RB



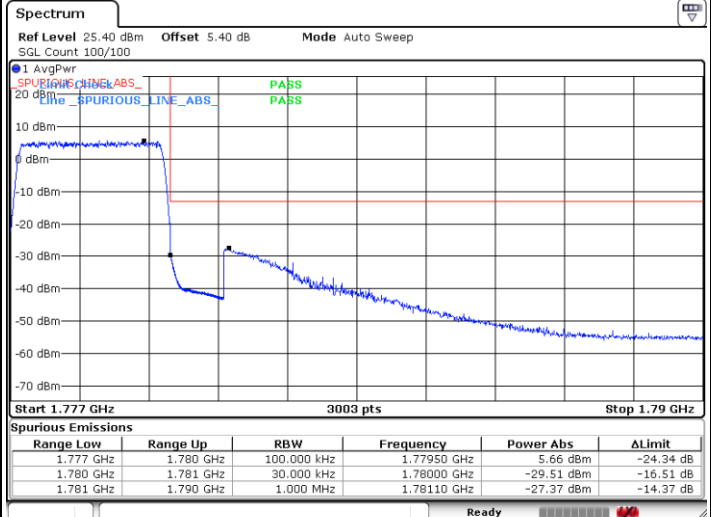
Date: 28.NOV.2021 13:27:12

Lowest Band Edge / Full RB



Date: 28.NOV.2021 13:23:34

Highest Band Edge / Full RB

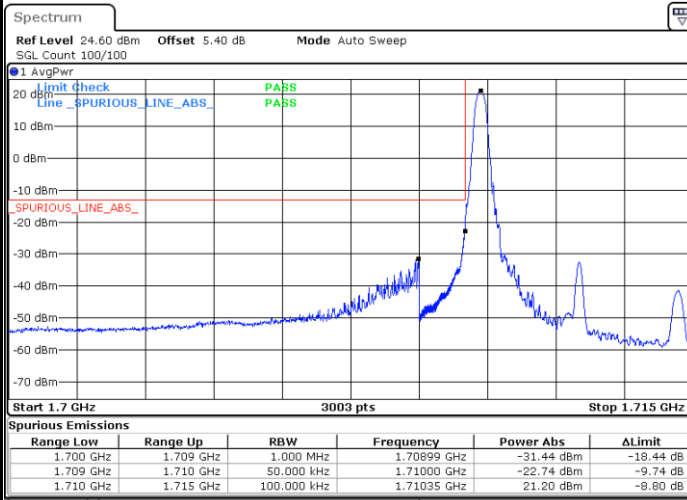


Date: 28.NOV.2021 13:30:08



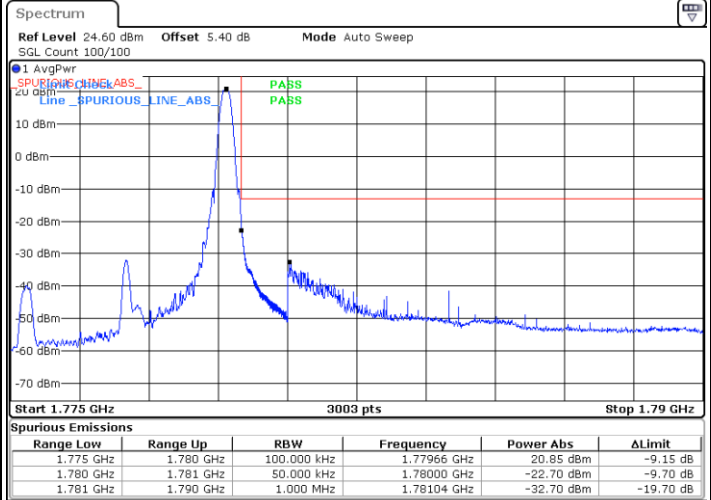
LTE Band 66 / 5MHz / QPSK

Lowest Band Edge / 1 RB



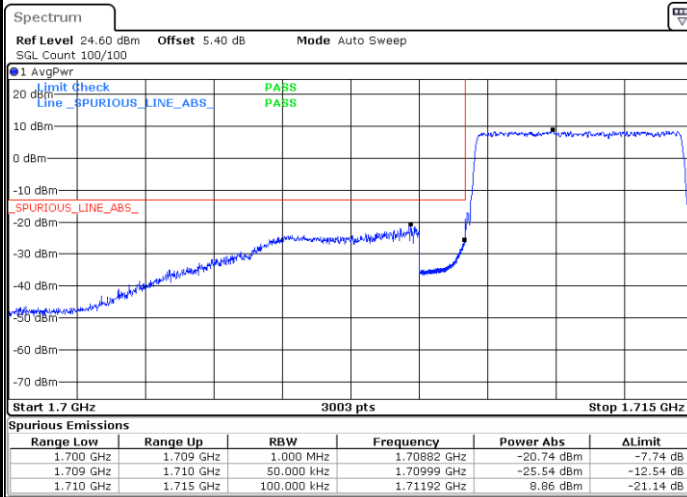
Date: 25.NOV.2021 03:31:39

Highest Band Edge / 1 RB



Date: 25.NOV.2021 03:37:14

Lowest Band Edge / Full RB



Date: 25.NOV.2021 03:34:26

Highest Band Edge / Full RB



Date: 25.NOV.2021 03:40:01