

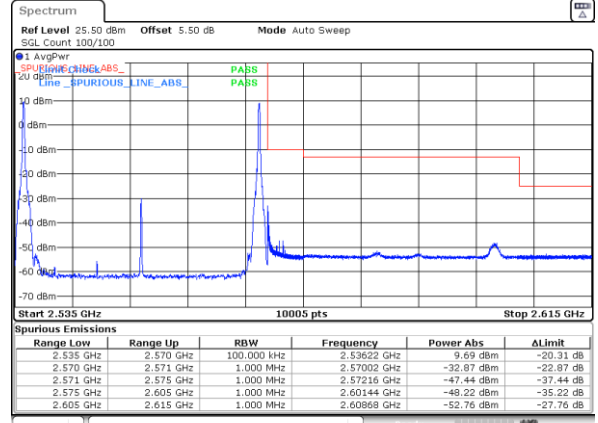
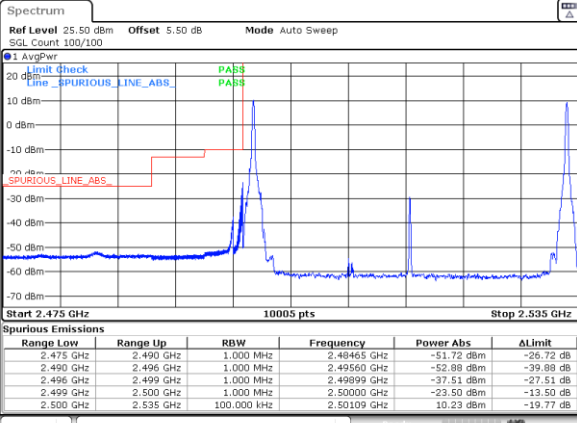


LTE Band 7C /20MHz+15MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

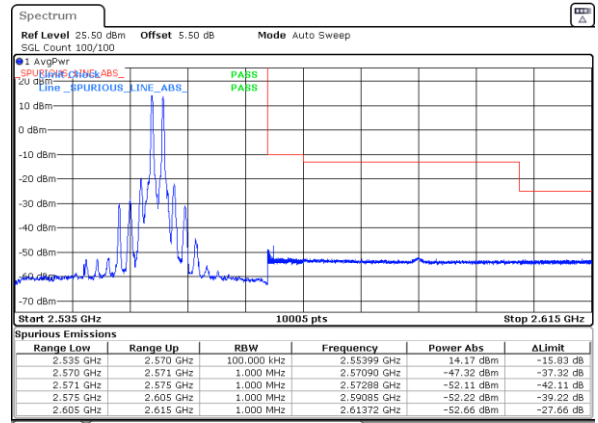
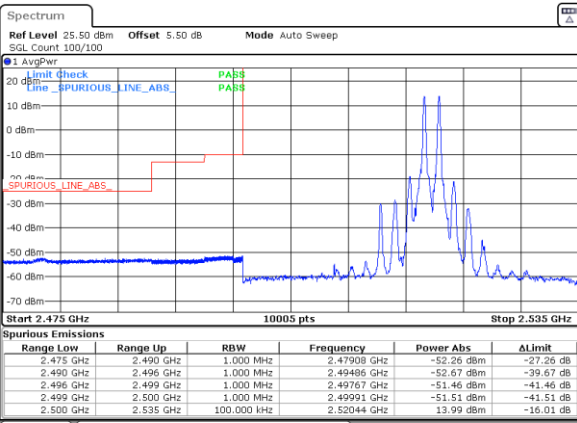


Date: 11.NOV.2021 19:22:52

Date: 11.NOV.2021 19:29:35

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

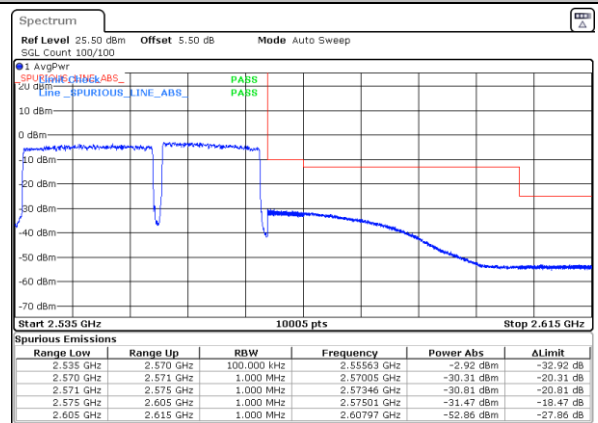
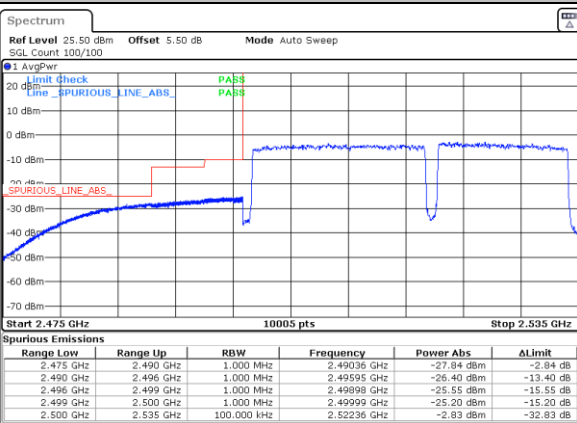


Date: 11.NOV.2021 19:23:40

Date: 11.NOV.2021 19:32:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.NOV.2021 19:19:27

Date: 11.NOV.2021 19:29:01

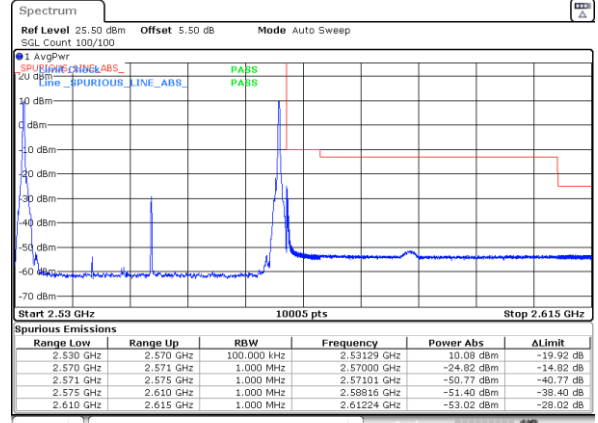
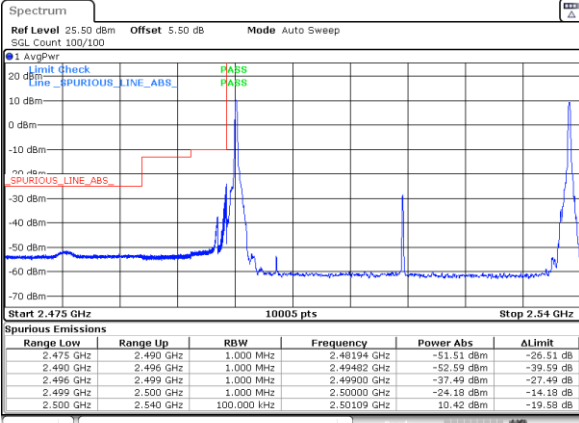


LTE Band 7C /20MHz+20MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

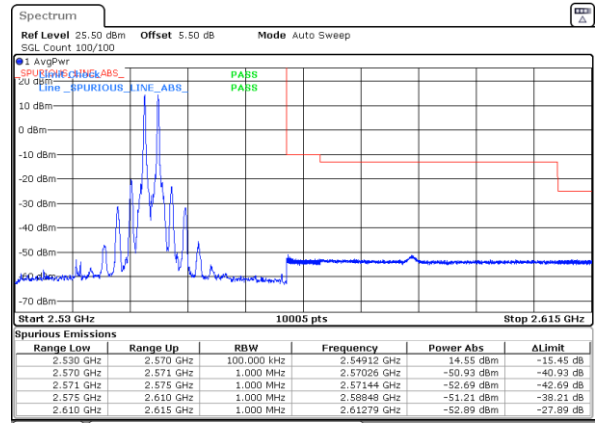
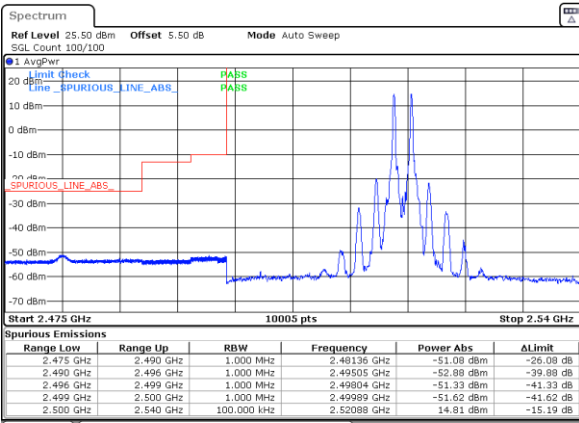


Date: 11.NOV.2021 18:52:04

Date: 11.NOV.2021 19:11:23

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

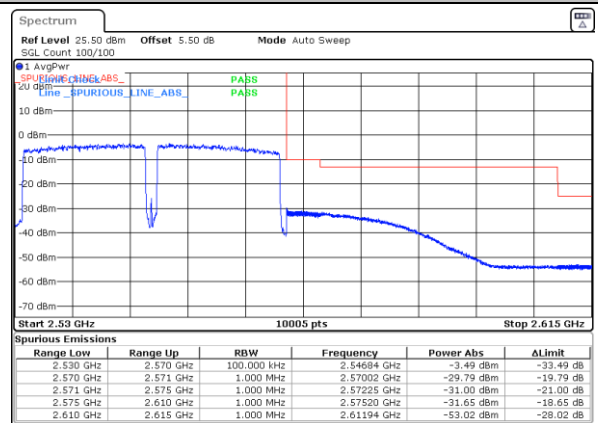
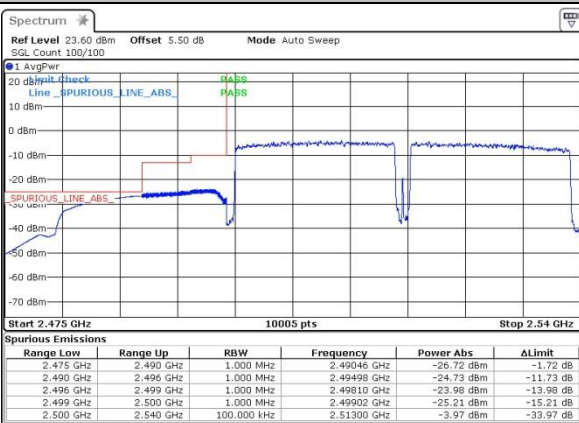


Date: 11.NOV.2021 19:00:02

Date: 11.NOV.2021 19:16:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.NOV.2021 19:14:38

Date: 11.NOV.2021 19:09:57

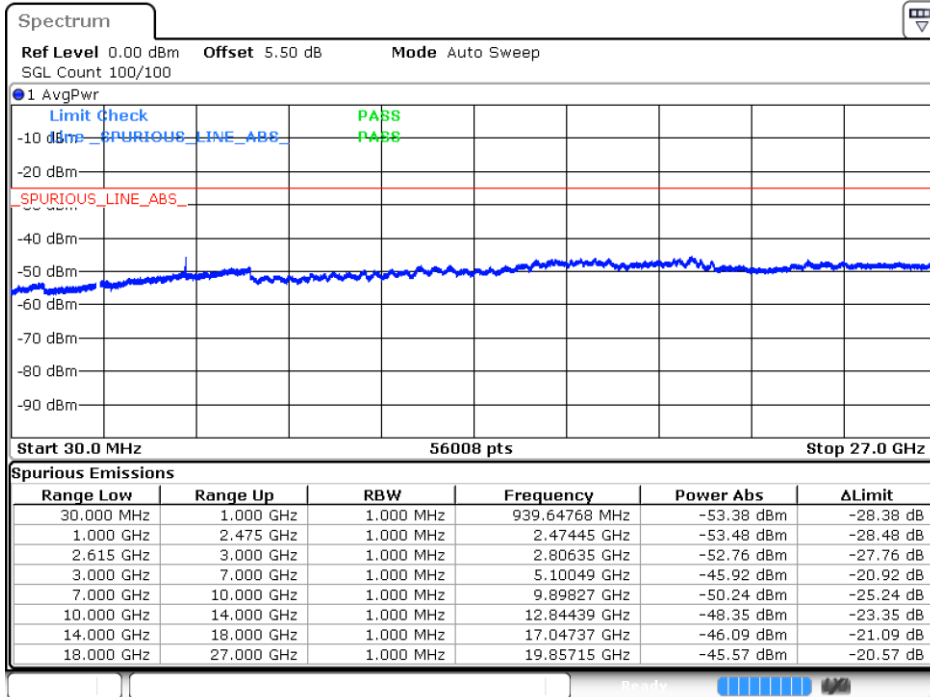


# Conducted Spurious Emission

LTE Band 7C / 20MHz+20MHz

QPSK

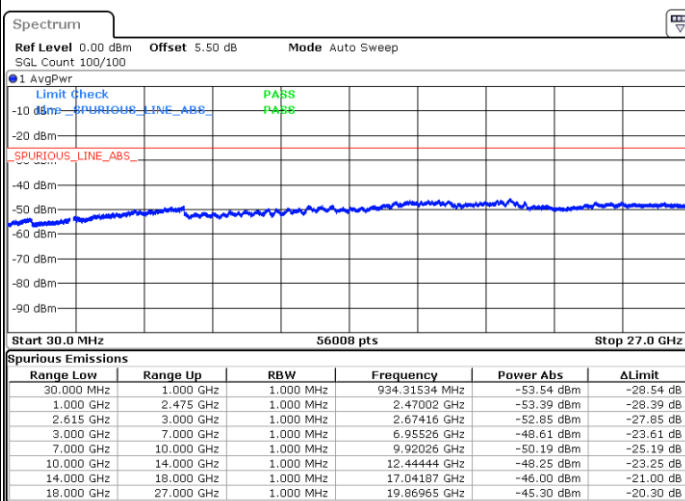
Lowest Channel / 1RB99 and 1RB0



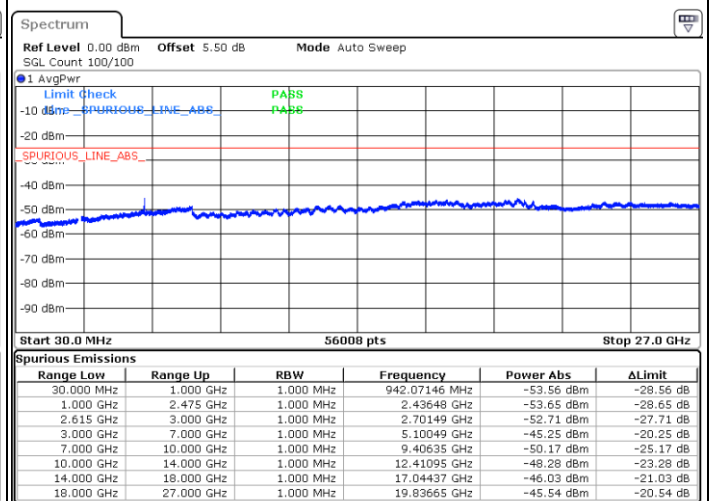
Date: 6.NOV.2021 19:11:33

Middle Channel / 1RB99 and 1RB0

Highest Channel / 1RB99 and 1RB0



Date: 6.NOV.2021 19:13:18



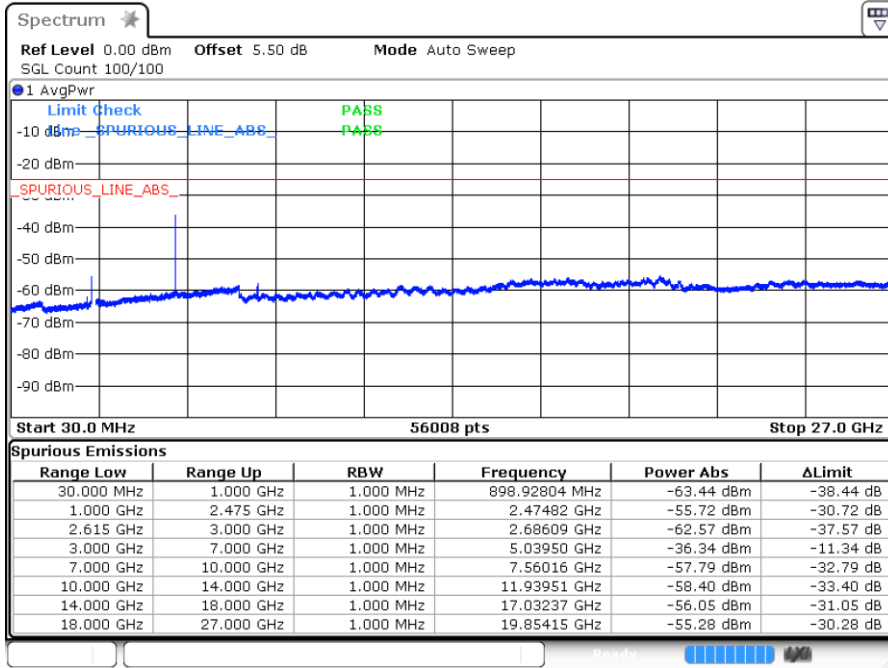
Date: 6.NOV.2021 19:10:37



LTE Band 7C /20MHz+15MHz

QPSK

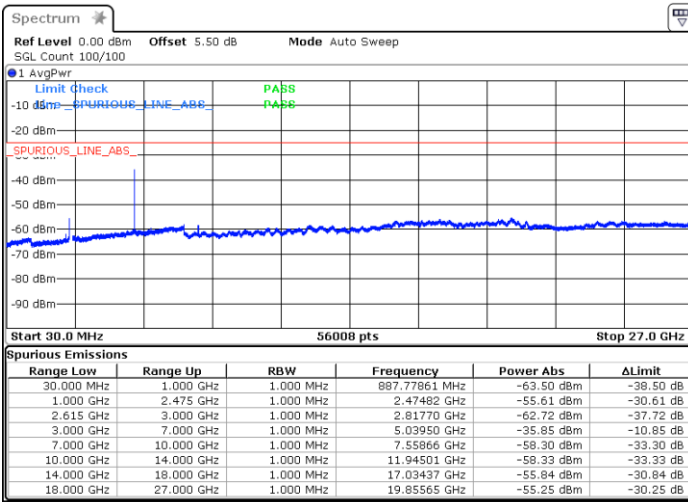
LowestChannel / 1RB99 and 1RB0



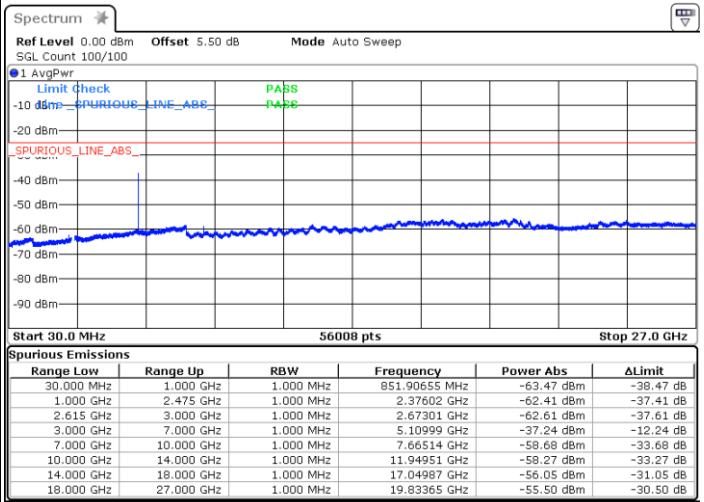
Date: 6 NOV 2021 18:53:01

Middle Channel / 1RB99 and 1RB0

Highest Channel / 1RB99 and 1RB0



Date: 6 NOV 2021 18:55:35



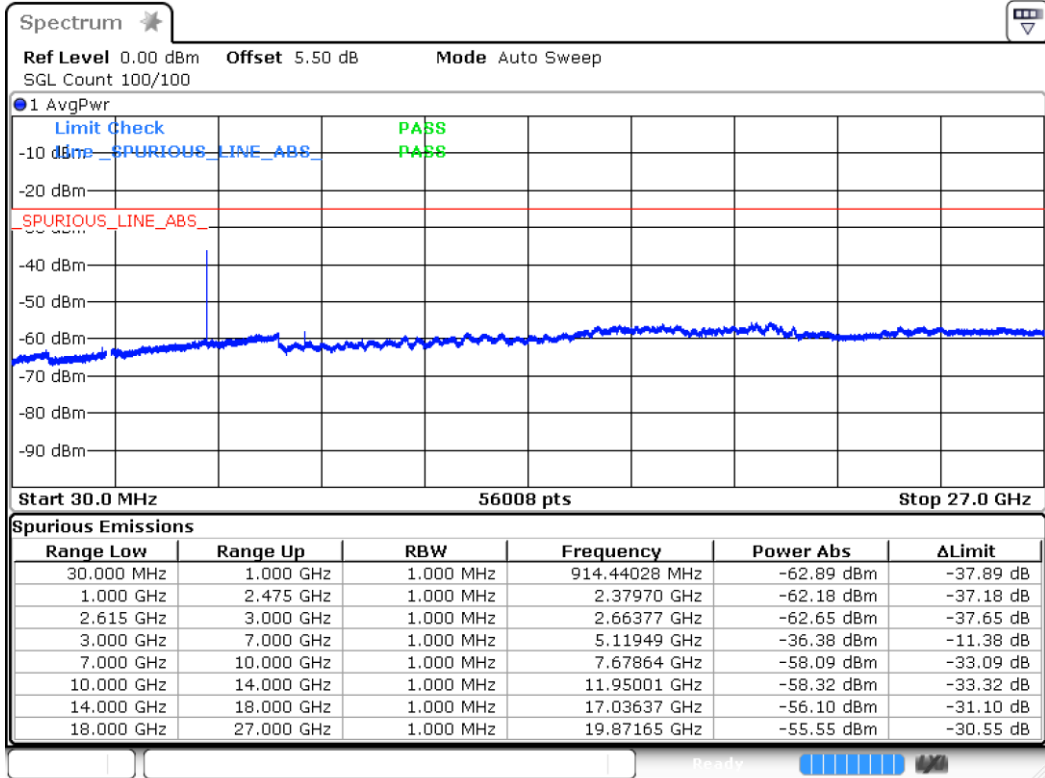
Date: 6 NOV 2021 19:01:49



LTE Band 7C / 20MHz+10MHz

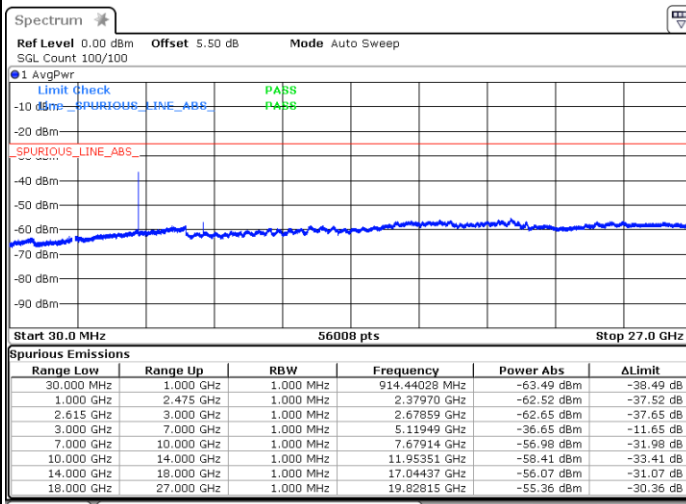
QPSK

Lowest Channel / 1RB99 and 1RB0



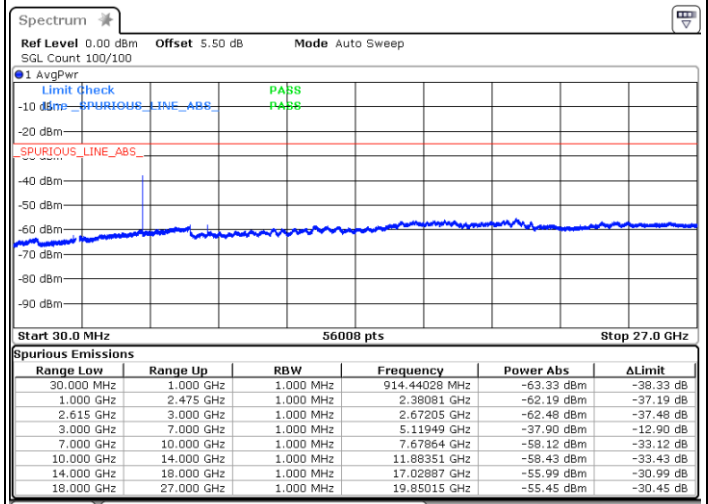
Date: 6.NOV.2021 18:11:50

Middle Channel / 1RB99 and 1RB0



Date: 6 NOV. 2021 18:07:00

Highest Channel / 1RB99 and 1RB0



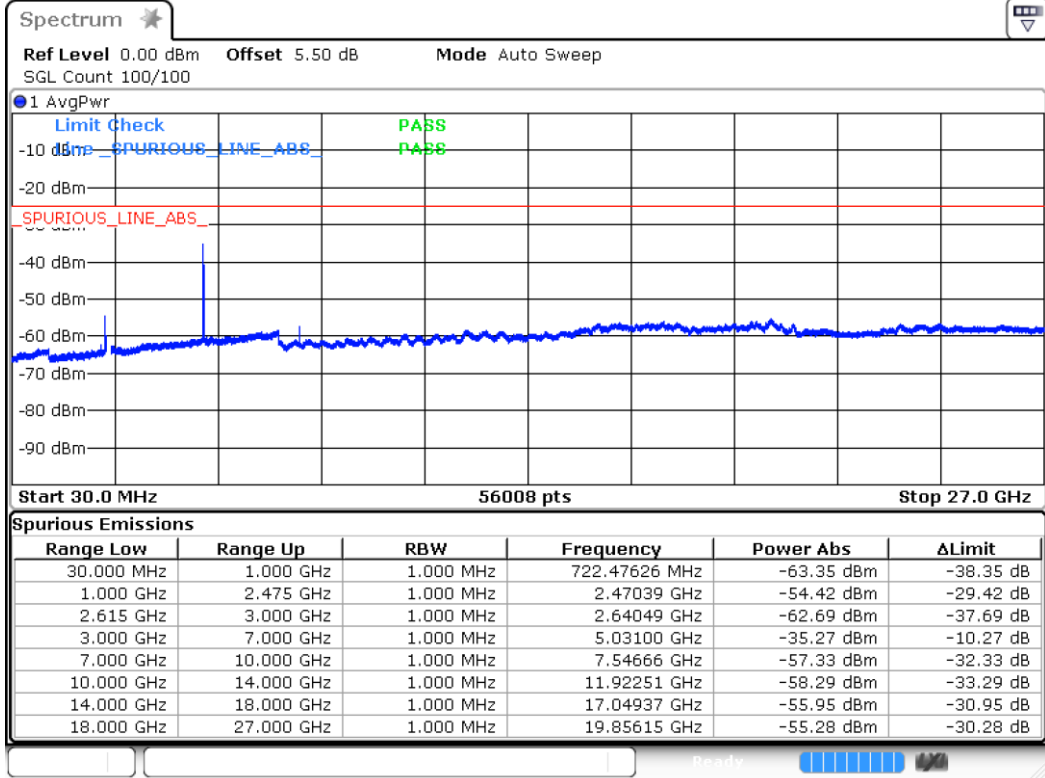
Date: 6 NOV. 2021 18:05:48



LTE Band 7C / 15MHz+20MHz

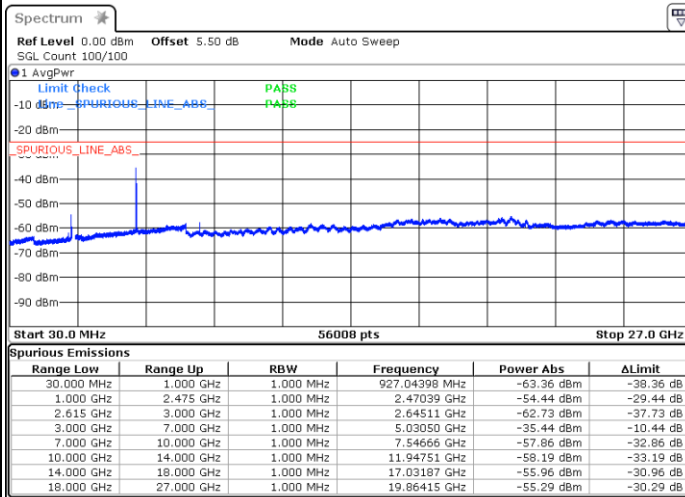
QPSK

Lowest Channel / 1RB74 and 1RB0



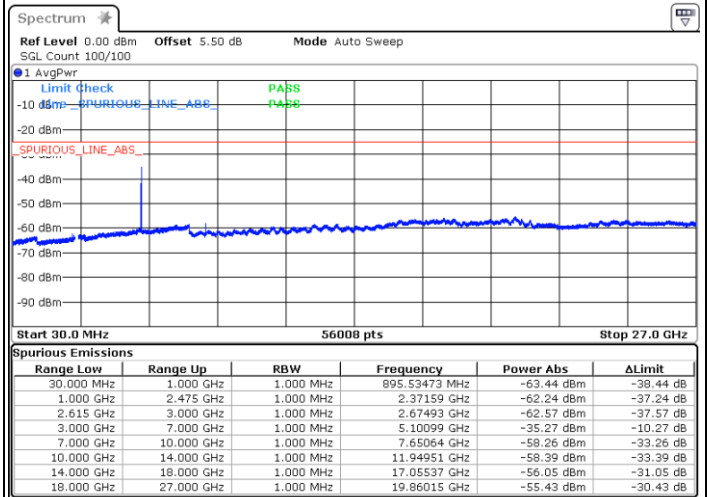
Date: 6.NOV.2021 18:37:41

Middle Channel / 1RB74 and 1RB0



Date: 6 NOV.2021 18:38:53

Highest Channel / 1RB74 and 1RB0



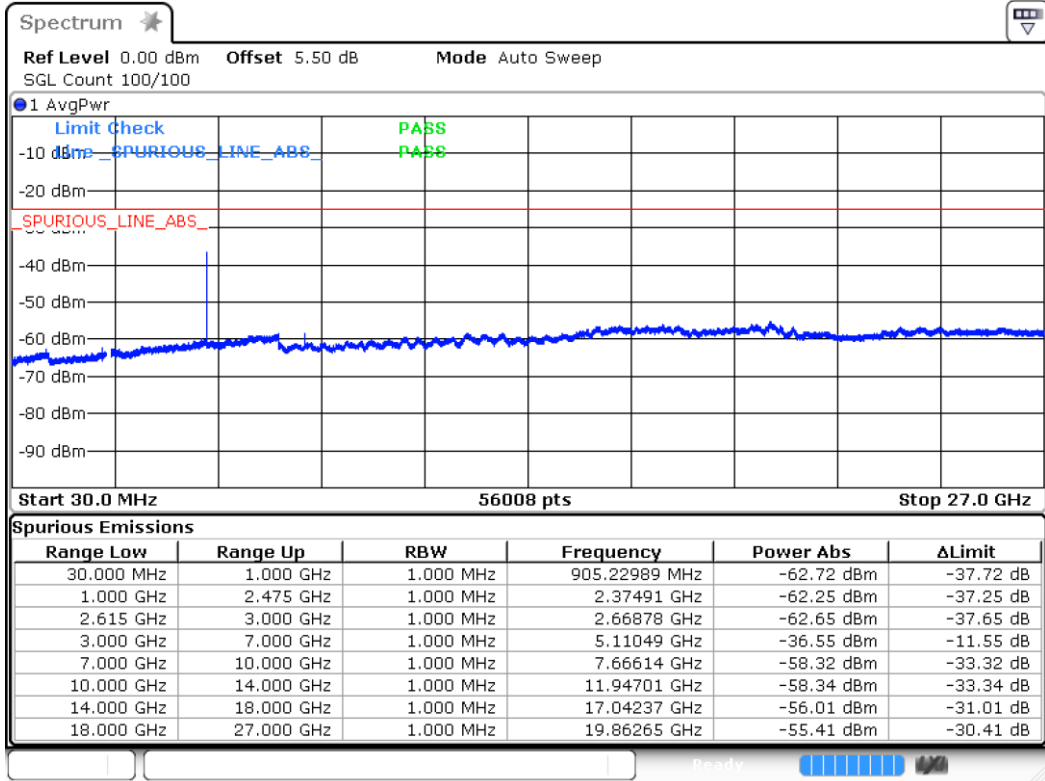
Date: 6 NOV.2021 18:45:17



LTE Band 7C / 15MHz+15MHz

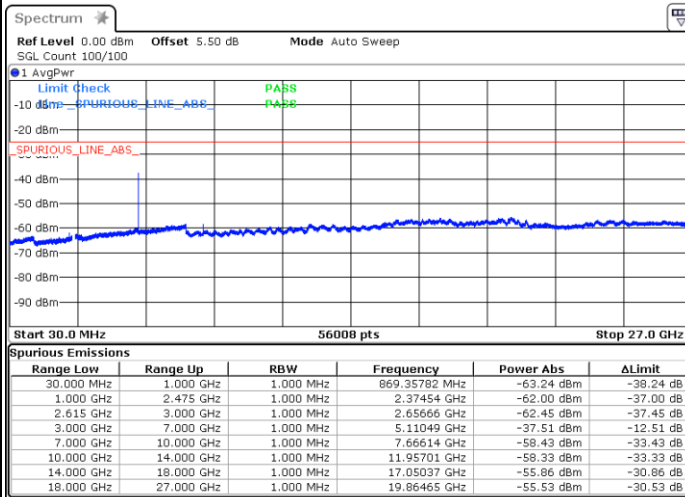
QPSK

Lowest Channel / 1RB74 and 1RB0



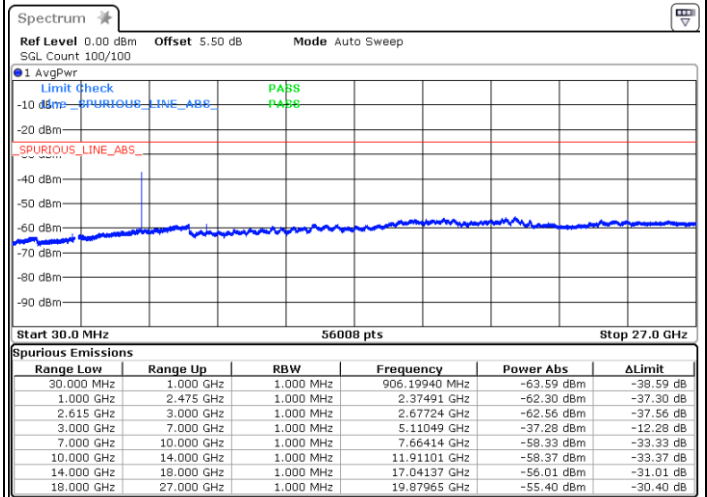
Date: 6.NOV.2021 18:27:10

Middle Channel / 1RB74 and 1RB0



Date: 6 NOV.2021 18:25:54

Highest Channel / 1RB74 and 1RB0



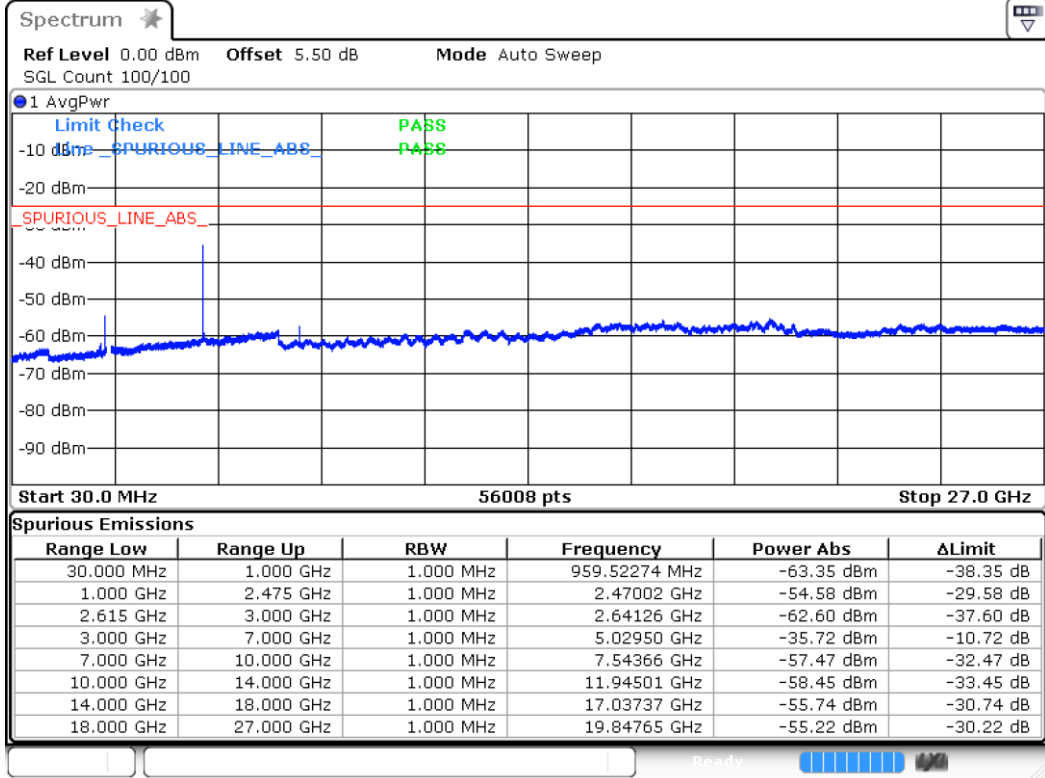
Date: 6 NOV.2021 18:24:37



LTE Band 7C / 15MHz+10MHz

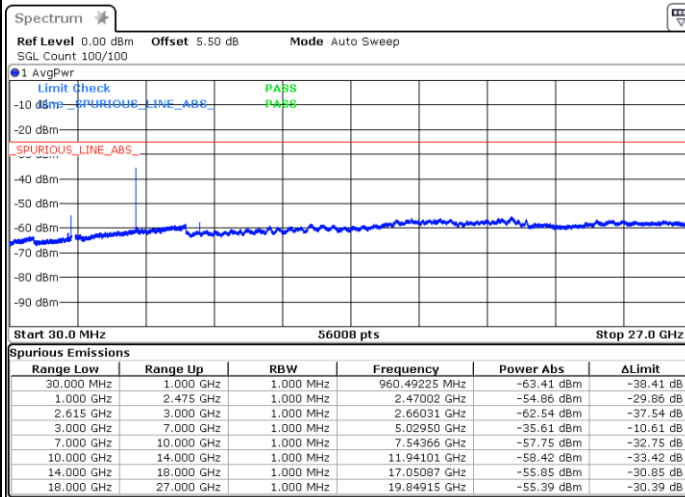
QPSK

Lowest Channel / 1RB74 and 1RB0



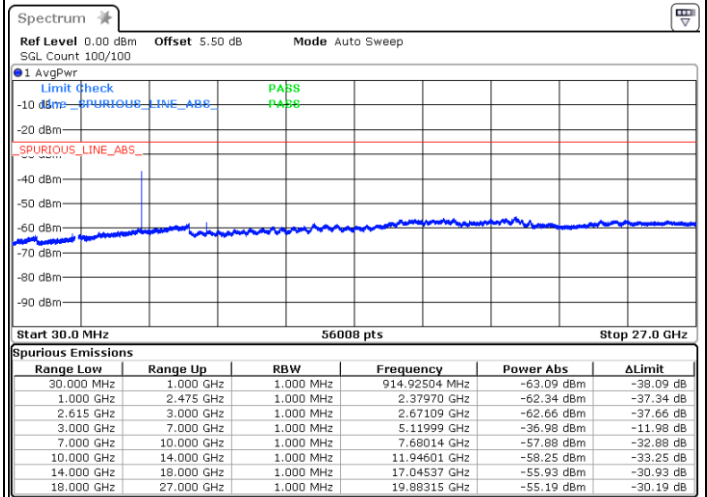
Date: 6.NOV.2021 19:21:38

Middle Channel / 1RB74 and 1RB0



Date: 6 NOV.2021 19:23:02

Highest Channel / 1RB74 and 1RB0



Date: 6 NOV.2021 19:29:18

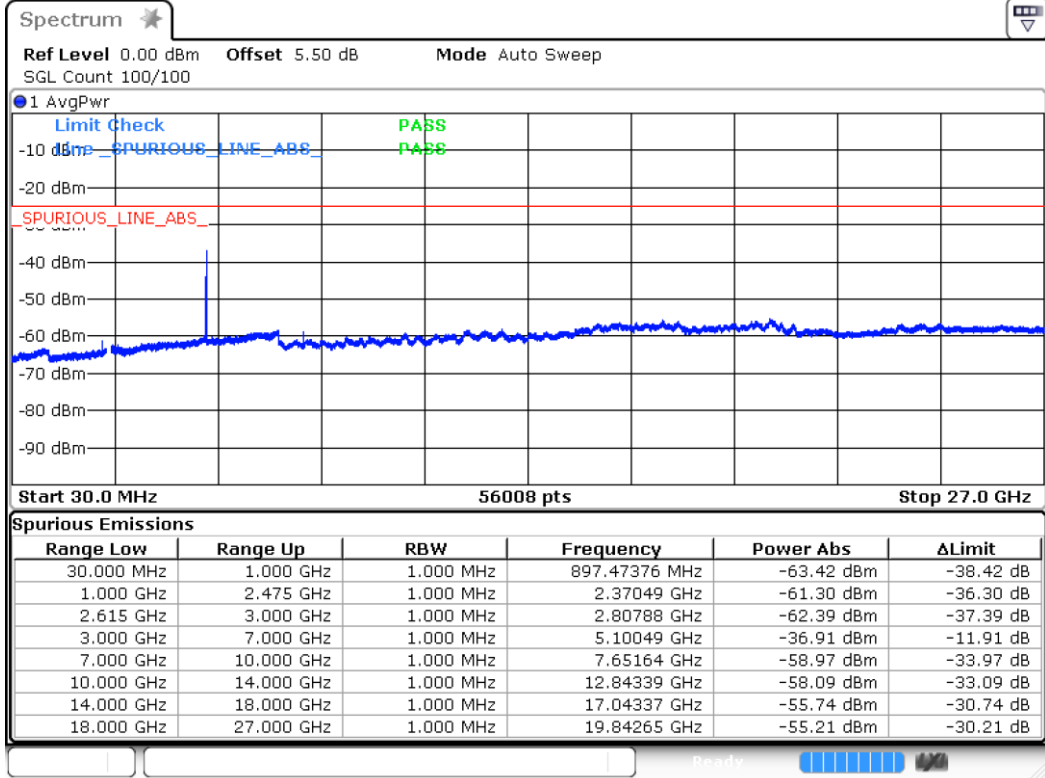




LTE Band 7C / 10MHz+20MHz

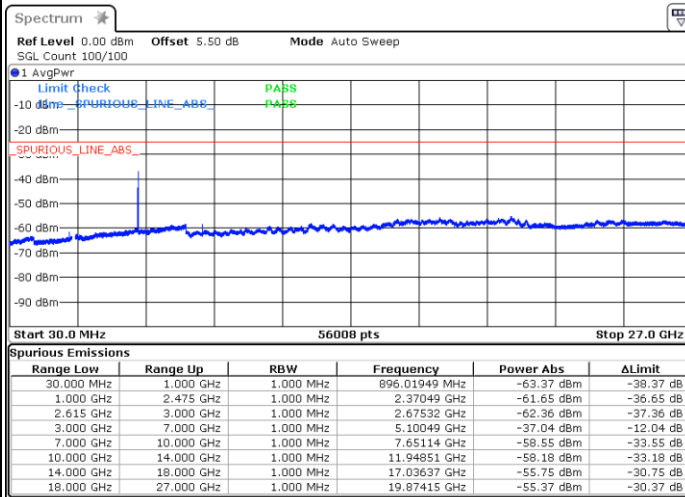
QPSK

Lowest Channel / 1RB49 and 1RB0



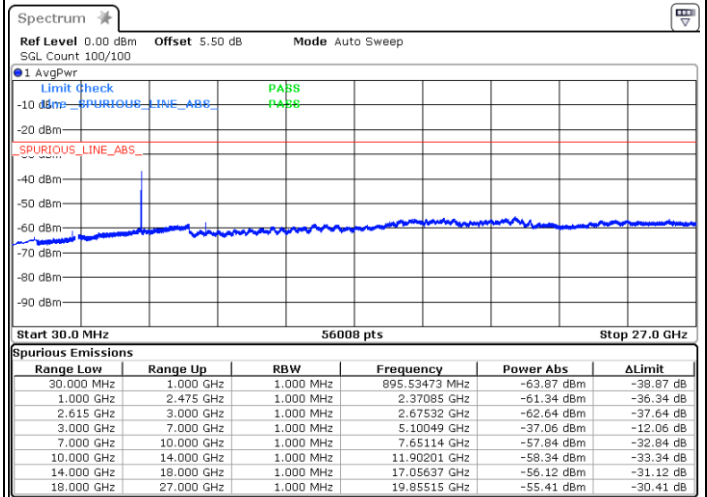
Date: 6.NOV.2021 17:36:27

Middle Channel / 1RB74 and 1RB0



Date: 6 NOV.2021 17:34:18

Highest Channel / 1RB74 and 1RB0



Date: 6 NOV.2021 17:32:57



Frequency Stability

Test Conditions		LTE Band 7C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0010	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0022	

Note:

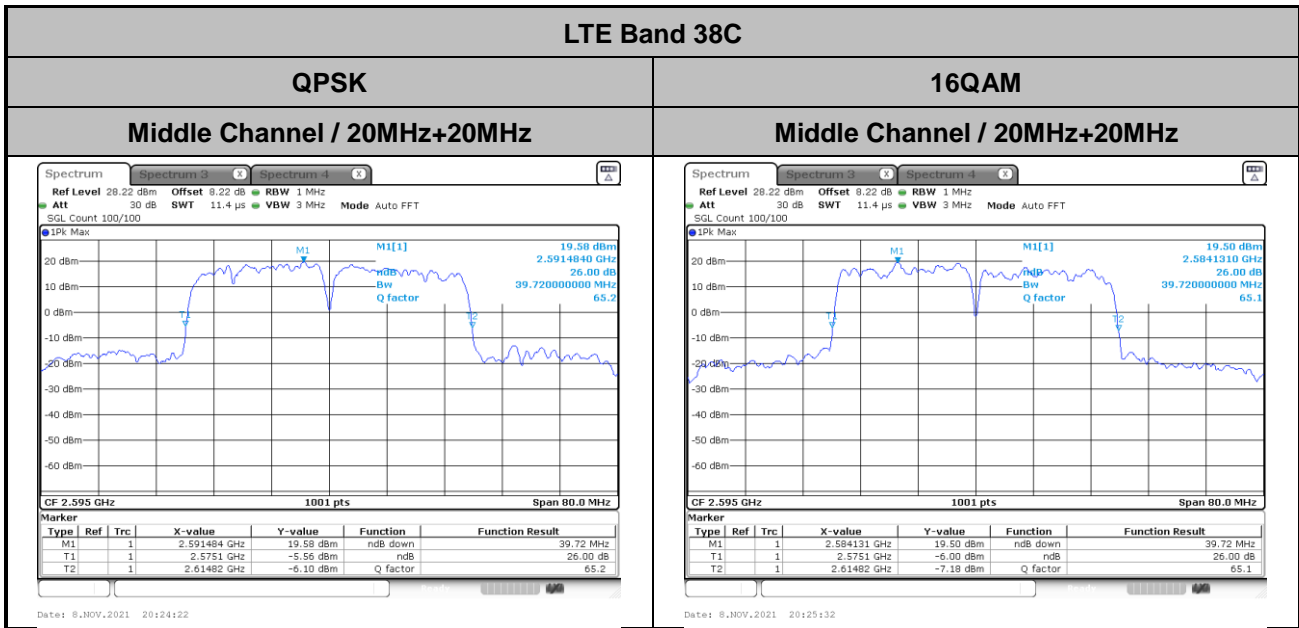
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 38C

## 26dB Bandwidth

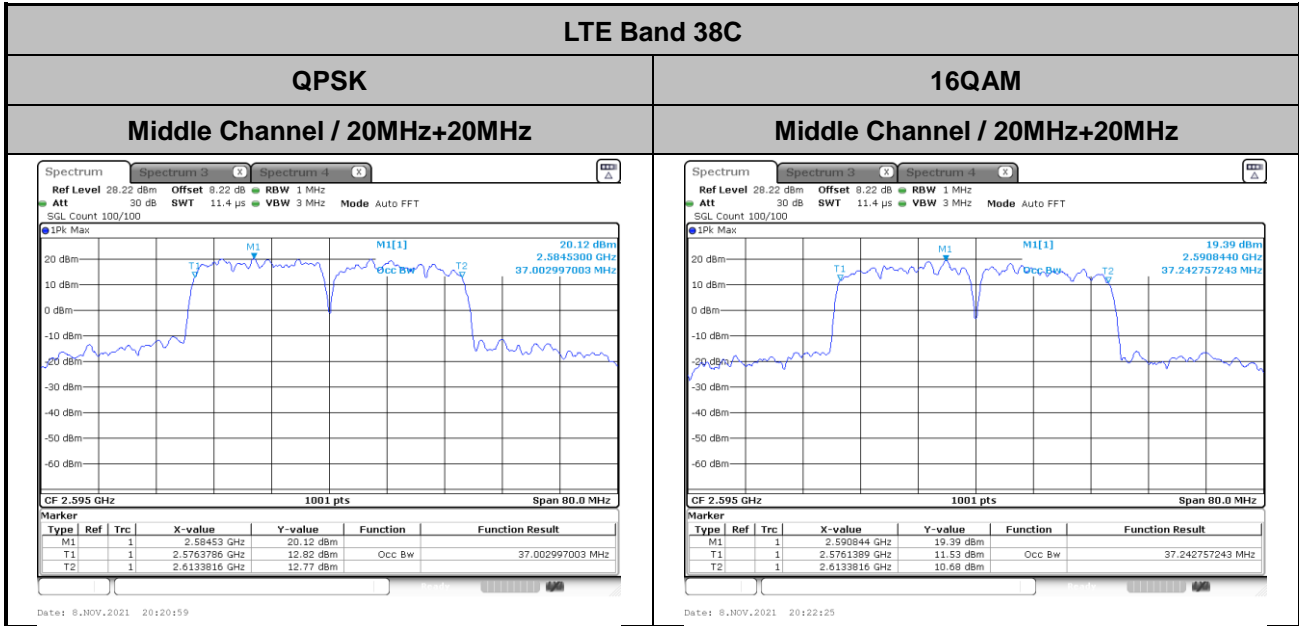
Mode	LTE Band 38C : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.72	39.72





## Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 38C : 99%OBW(MHz)</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>BW</b>	<b>20MHz+20MHz</b>	<b>20MHz+20MHz</b>
<b>Middle CH</b>	<b>37.00</b>	<b>37.24</b>

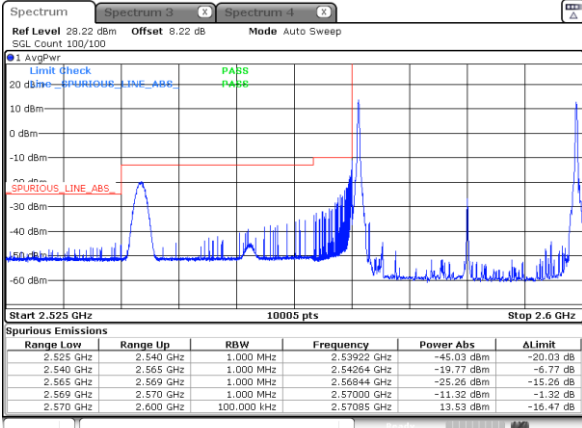




# Conducted Band Edge

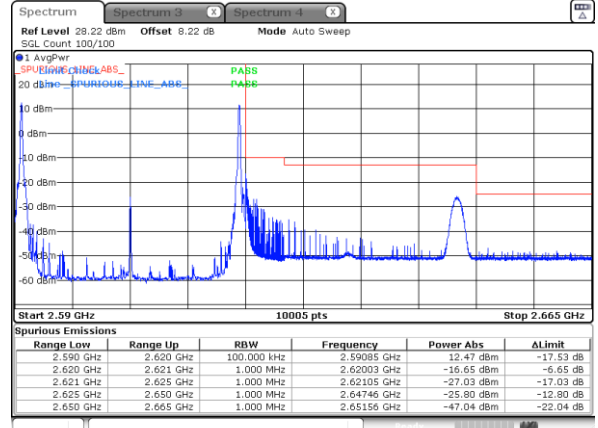
## LTE Band 38C / 15MHz+15MHz QPSK

### Lowest Band Edge / 1RB0 and 1RB74



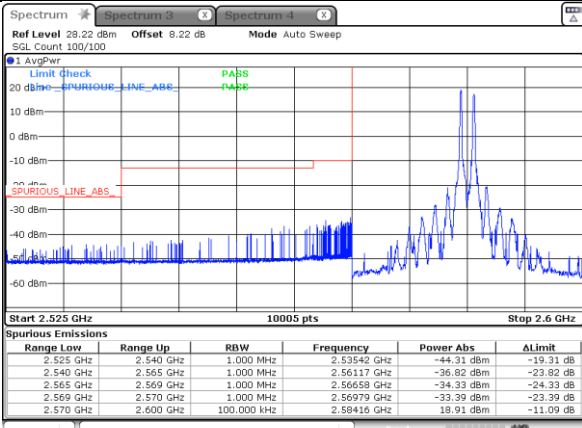
Date: 8.NOV.2021 19:38:49

### Highest Band Edge / 1RB0 and 1RB74



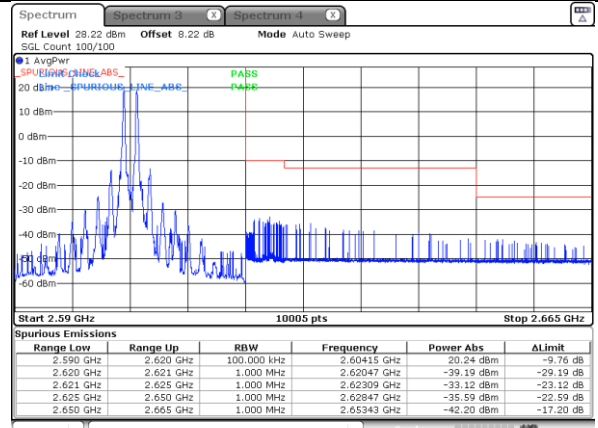
Date: 8.NOV.2021 19:54:24

### Lowest Band Edge / 1RB74 and 1RB0



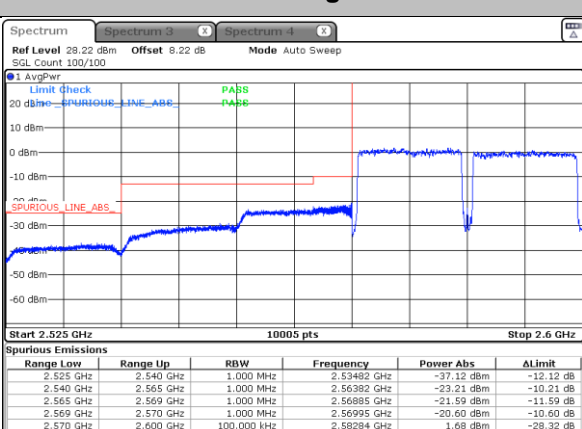
Date: 8.NOV.2021 19:32:17

### Highest Band Edge / 1RB74 and 1RB0



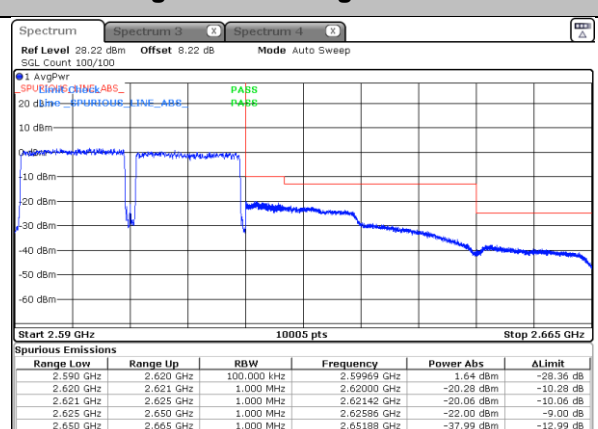
Date: 8.NOV.2021 19:48:49

### Lowest Band Edge / Full RB



Date: 8.NOV.2021 19:41:14

### Highest Band Edge / Full RB



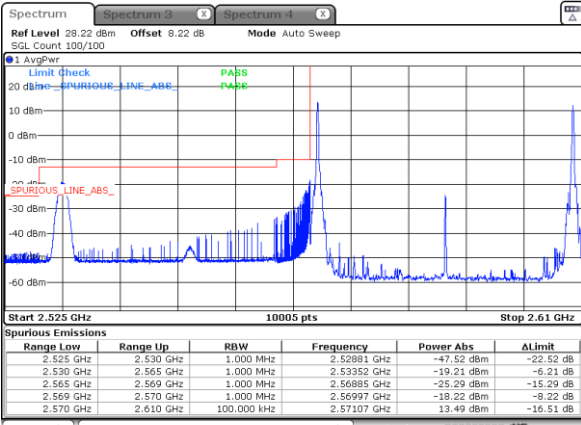
Date: 8.NOV.2021 19:55:30



LTE Band 38C / 20MHz+20MHz

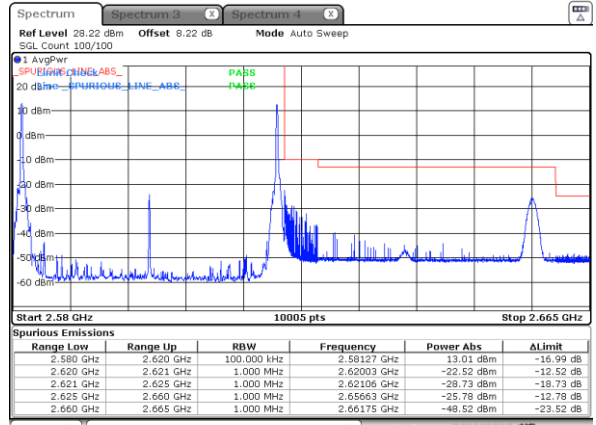
QPSK

Lowest Band Edge / 1RB0 and 1RB9



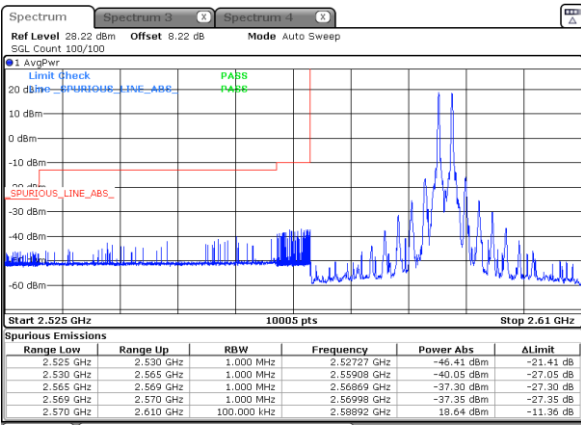
Date: 8.NOV.2021 20:08:09

Highest Band Edge / 1RB0 and 1RB9



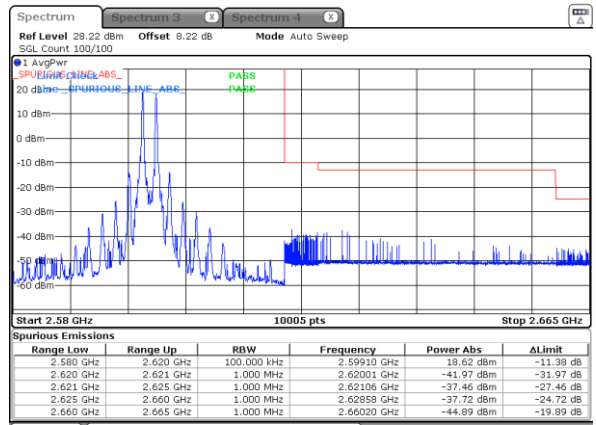
Date: 8.NOV.2021 20:35:41

Lowest Band Edge / 1RB99 and 1RB0



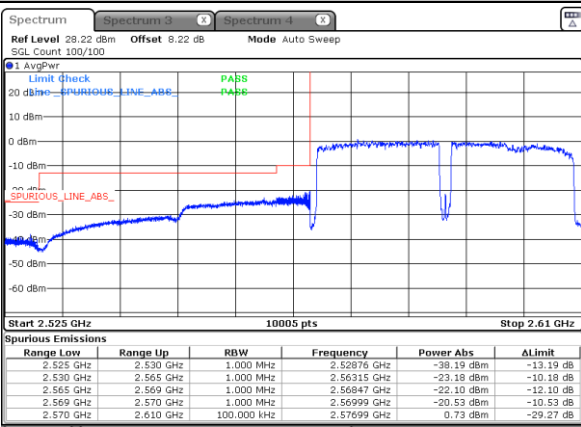
Date: 8.NOV.2021 20:02:08

Highest Band Edge / 1RB99 and 1RB0



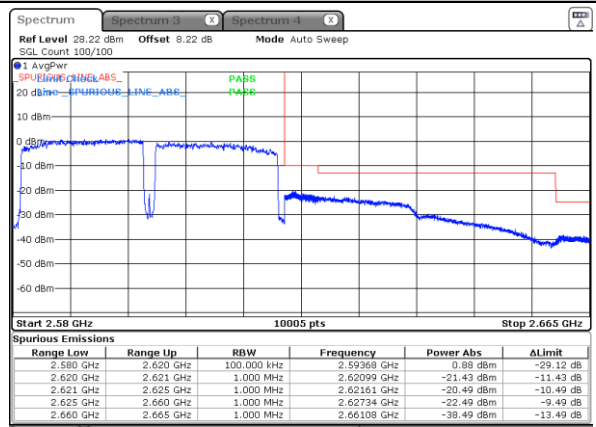
Date: 8.NOV.2021 20:31:04

Lowest Band Edge / Full RB



Date: 8.NOV.2021 20:08:58

Highest Band Edge / Full RB



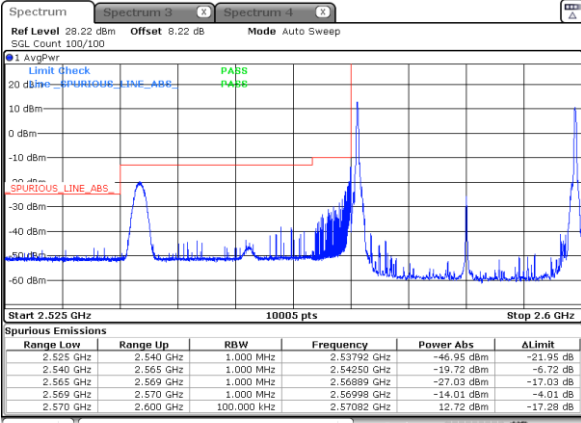
Date: 8.NOV.2021 20:36:53



LTE Band 38C / 15MHz+15MHz

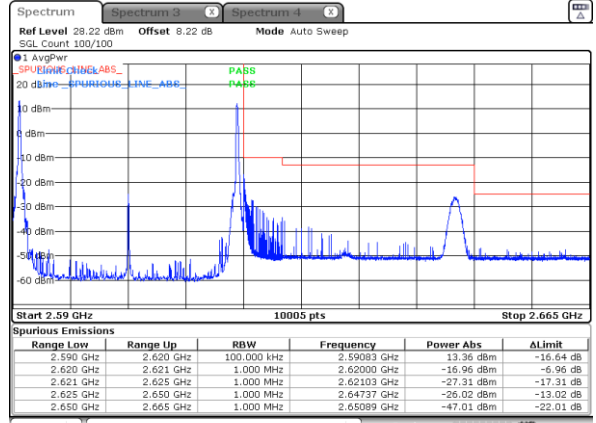
16QAM

Lowest Band Edge / 1RB0 and 1RB74



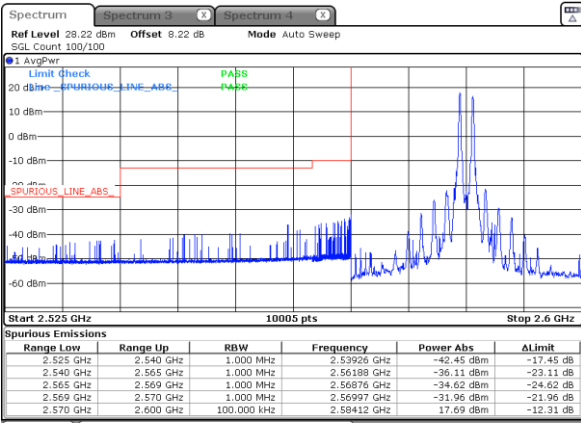
Date: 8.NOV.2021 19:37:51

Highest Band Edge / 1RB0 and 1RB74



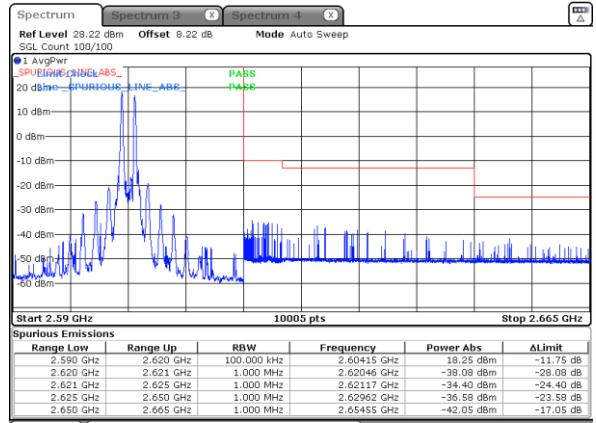
Date: 8.NOV.2021 19:53:33

Lowest Band Edge / 1RB74 and 1RB0



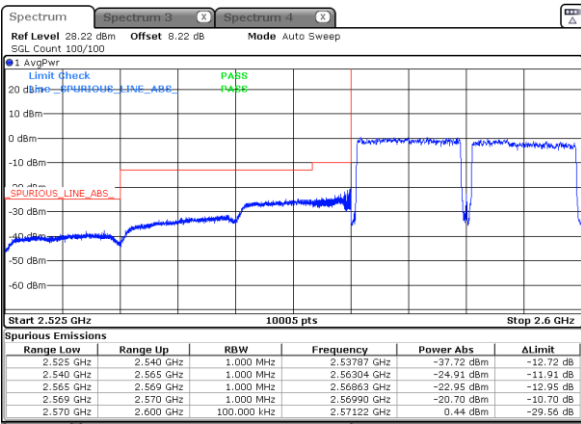
Date: 8.NOV.2021 19:33:30

Highest Band Edge / 1RB74 and 1RB0



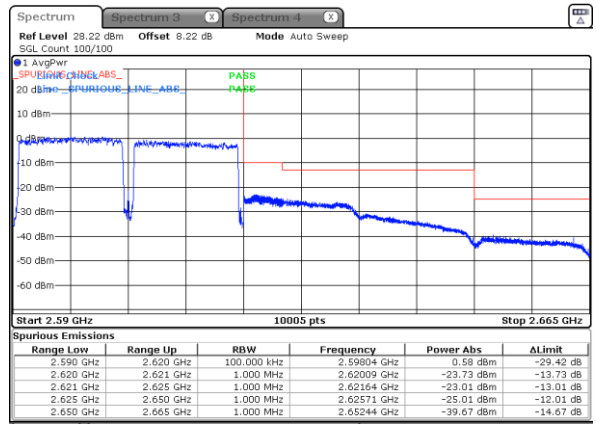
Date: 8.NOV.2021 19:50:11

Lowest Band Edge / Full RB



Date: 8.NOV.2021 19:42:06

Highest Band Edge / Full RB



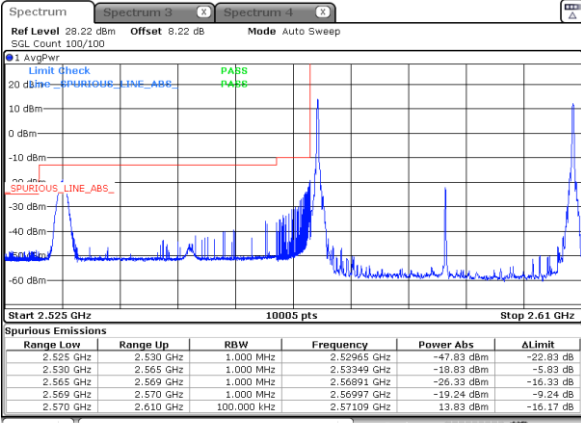
Date: 8.NOV.2021 19:56:15



LTE Band 38C / 20MHz+20MHz

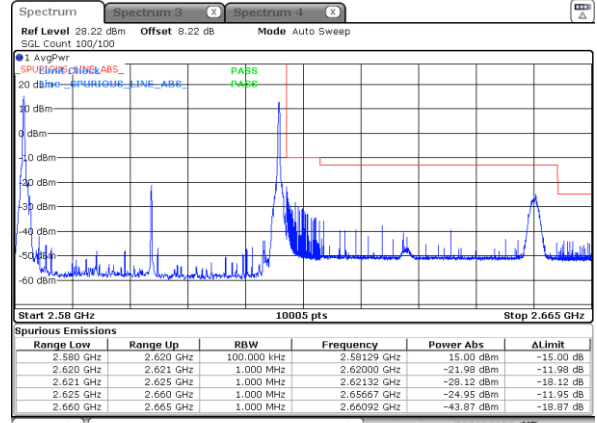
16QAM

Lowest Band Edge / 1RB0 and 1RB9



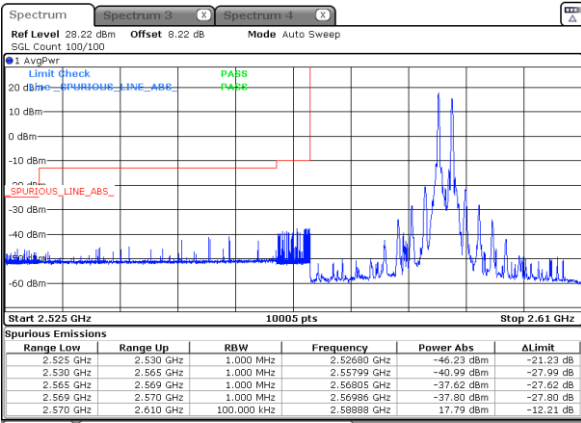
Date: 8.NOV.2021 20:07:19

Highest Band Edge / 1RB0 and 1RB9



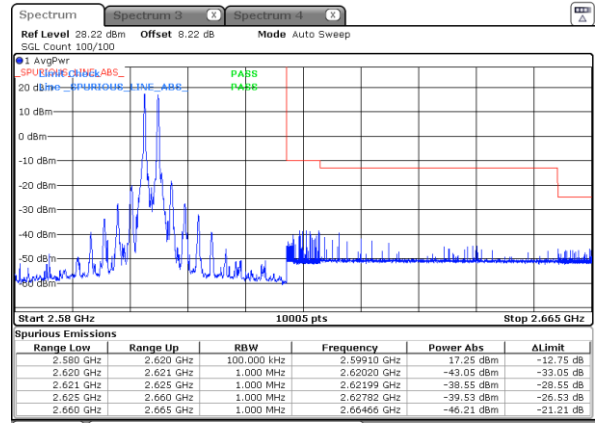
Date: 8.NOV.2021 20:34:54

Lowest Band Edge / 1RB99 and 1RB0



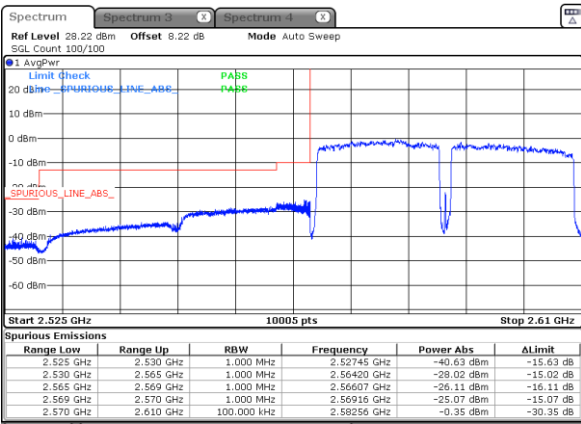
Date: 8.NOV.2021 20:02:59

Highest Band Edge / 1RB99 and 1RB0



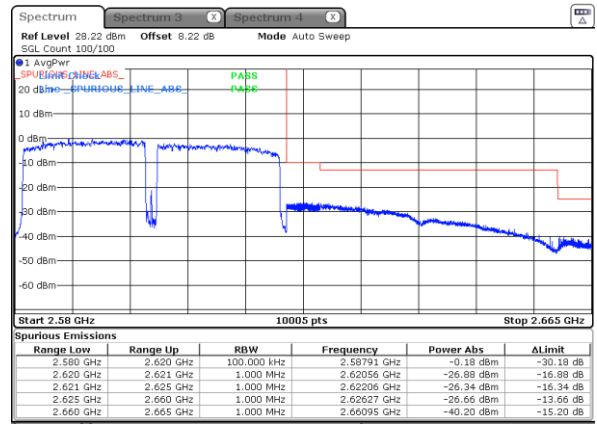
Date: 8.NOV.2021 20:32:00

Lowest Band Edge / Full RB



Date: 8.NOV.2021 20:09:40

Highest Band Edge / Full RB



Date: 8.NOV.2021 20:38:37

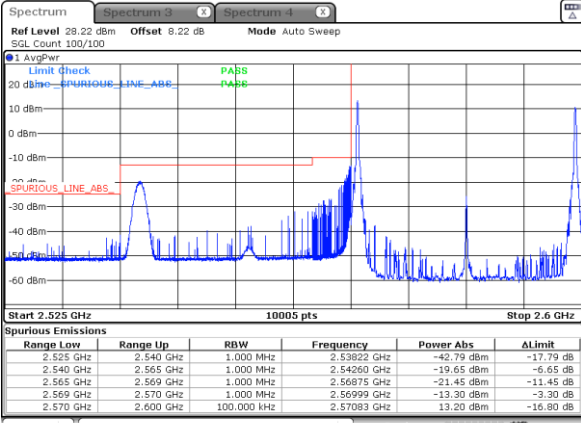




LTE Band 38C / 15MHz+15MHz

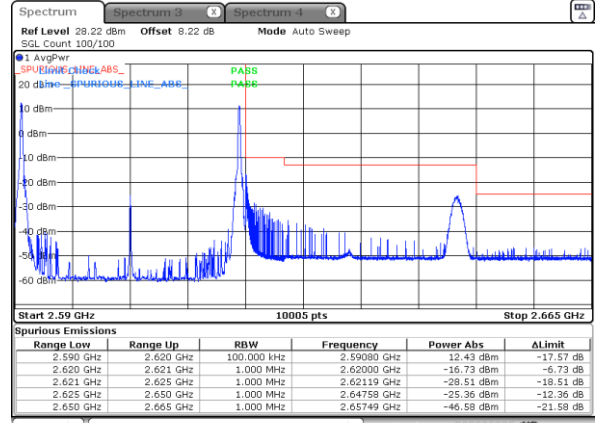
64QAM

Lowest Band Edge / 1RB0 and 1RB74



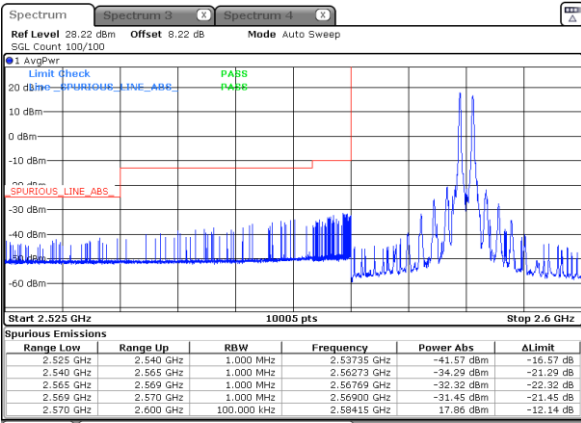
Date: 8.NOV.2021 19:37:02

Highest Band Edge / 1RB0 and 1RB74



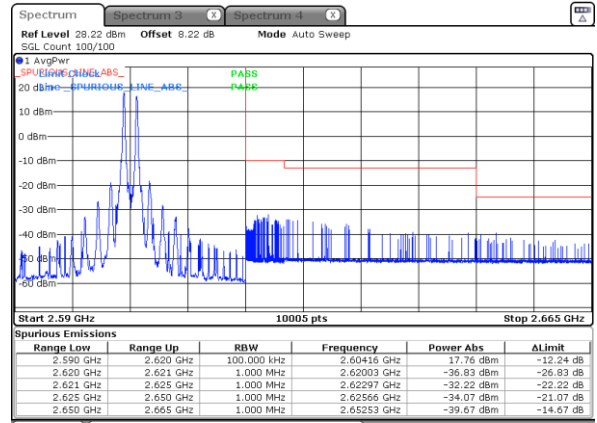
Date: 8.NOV.2021 19:52:33

Lowest Band Edge / 1RB74 and 1RB0



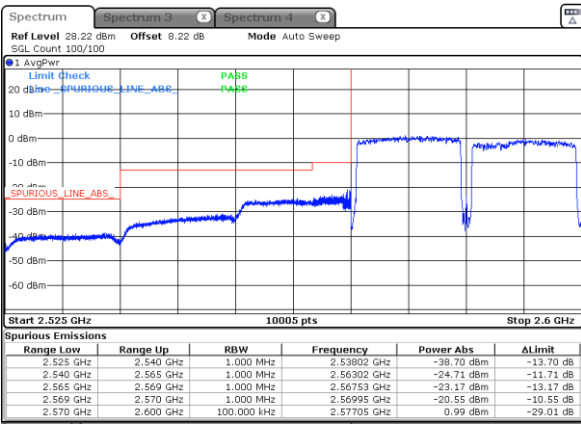
Date: 8.NOV.2021 19:35:13

Highest Band Edge / 1RB74 and 1RB0



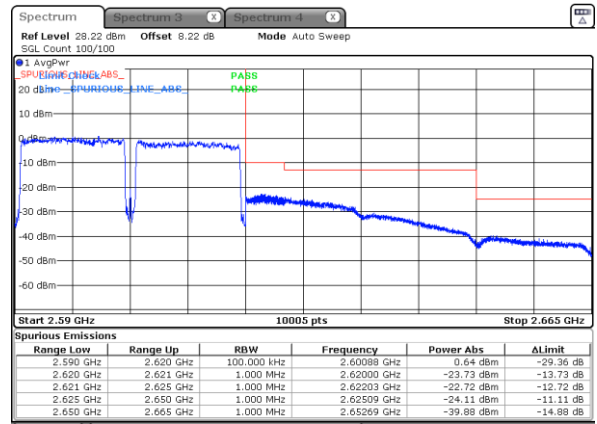
Date: 8.NOV.2021 19:51:36

Lowest Band Edge / Full RB



Date: 8.NOV.2021 19:43:05

Highest Band Edge / Full RB



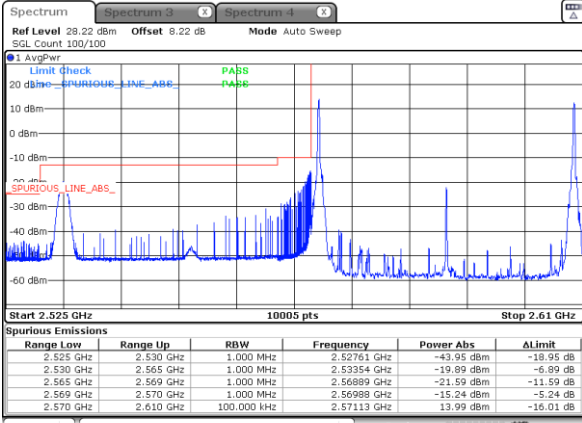
Date: 8.NOV.2021 19:57:03



LTE Band 38C / 20MHz+20MHz

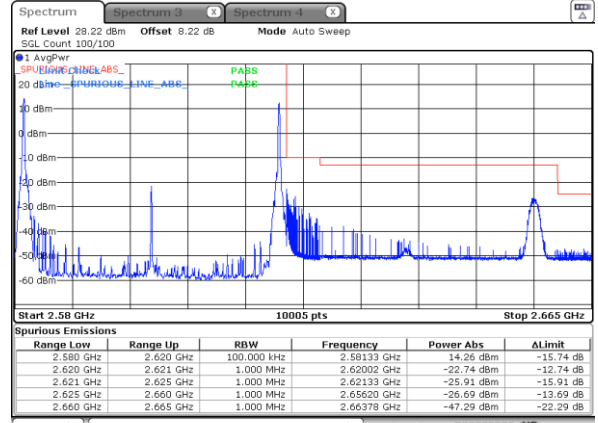
64QAM

Lowest Band Edge / 1RB0 and 1RB9



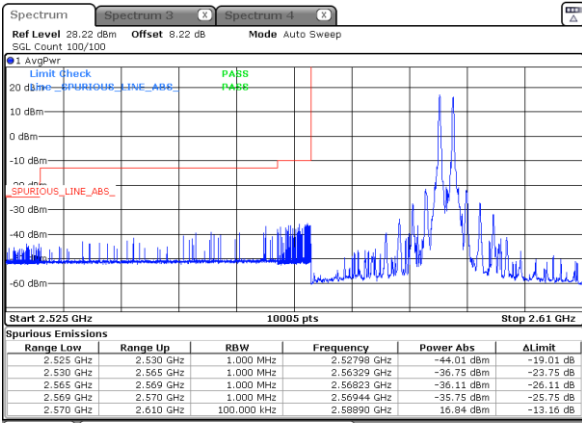
Date: 8.NOV.2021 20:06:24

Highest Band Edge / 1RB0 and 1RB9



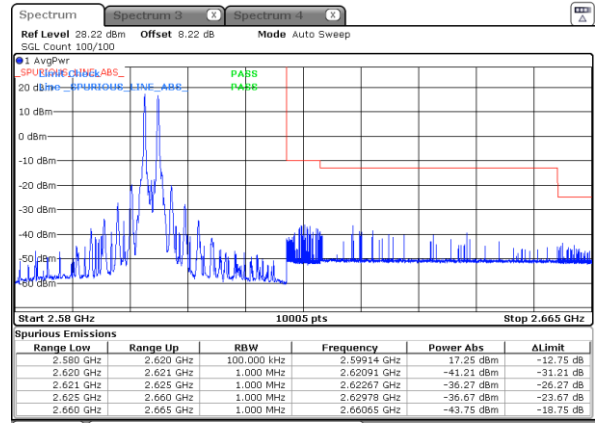
Date: 8.NOV.2021 20:34:01

Lowest Band Edge / 1RB99 and 1RB0



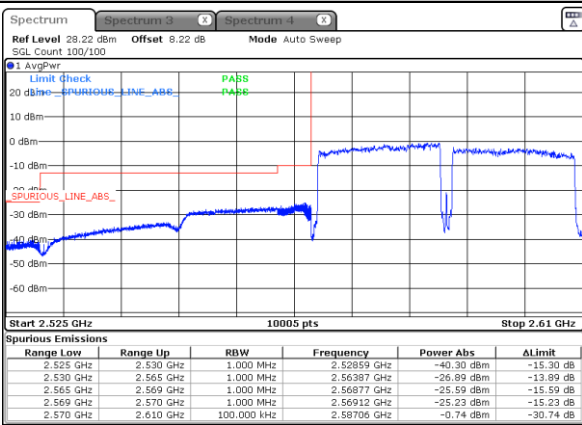
Date: 8.NOV.2021 20:03:47

Highest Band Edge / 1RB99 and 1RB0



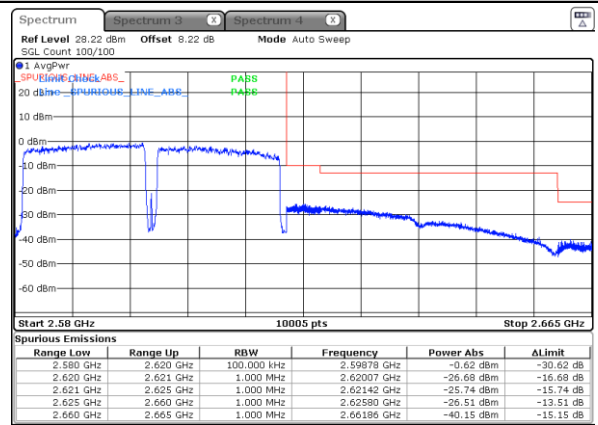
Date: 8.NOV.2021 20:32:52

Lowest Band Edge / Full RB



Date: 8.NOV.2021 20:10:50

Highest Band Edge / Full RB



Date: 8.NOV.2021 20:39:38



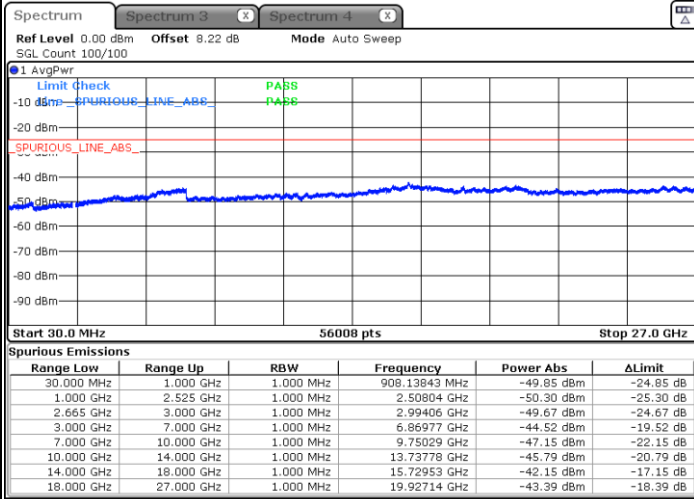
# Conducted Spurious Emission

## LTE Band 38C / 15MHz+15MHz

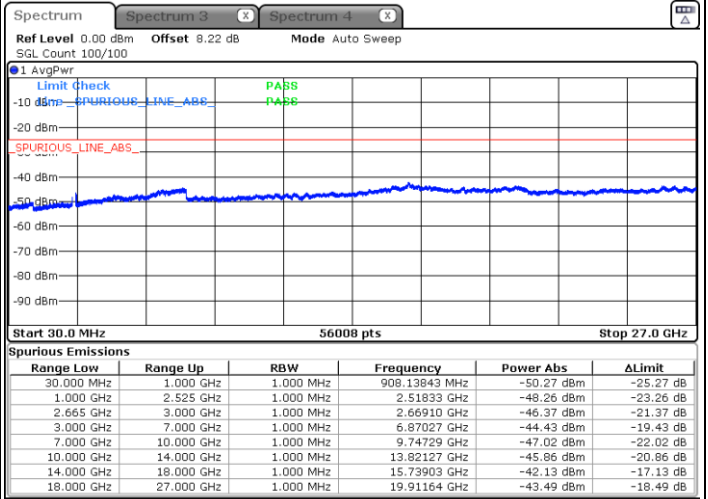
### QPSK

#### Lowest Channel / 1RB74 and 1RB0

#### Middle Channel / 1RB74 and 1RB0



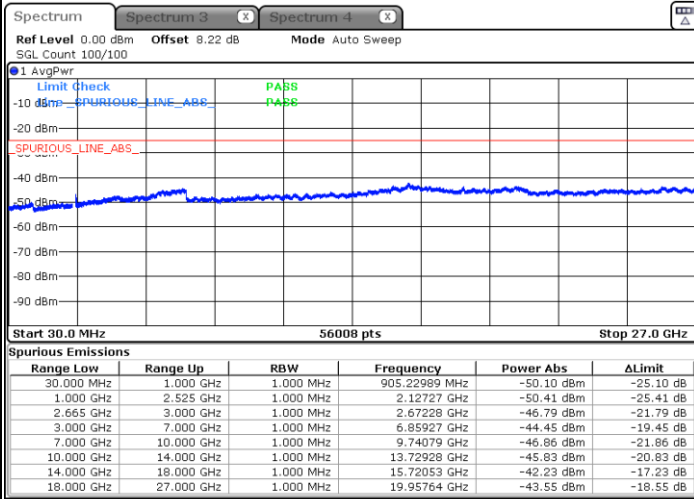
Date: 8.NOV.2021 19:29:19



Date: 8.NOV.2021 19:45:44

#### Highest Channel / 1RB74 and 1RB0

N/A



Date: 8.NOV.2021 19:47:25

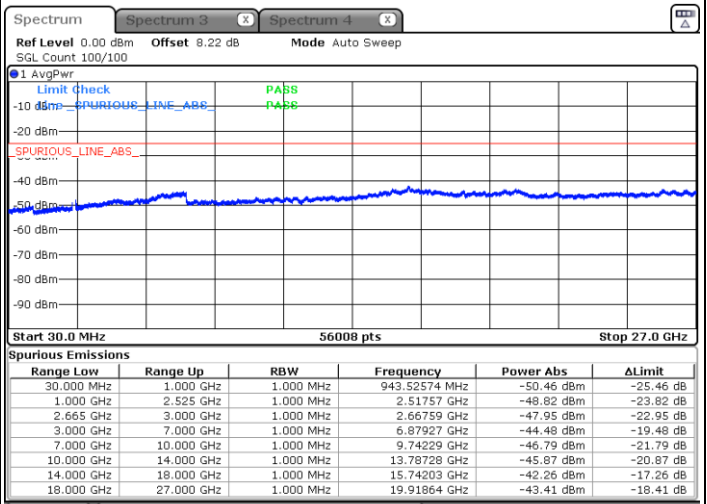
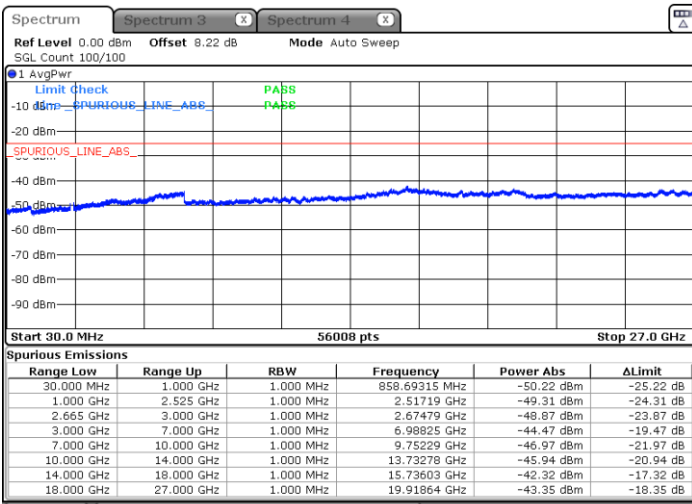


LTE Band 38C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

Middle Channel / 1RB99 and 1RB0

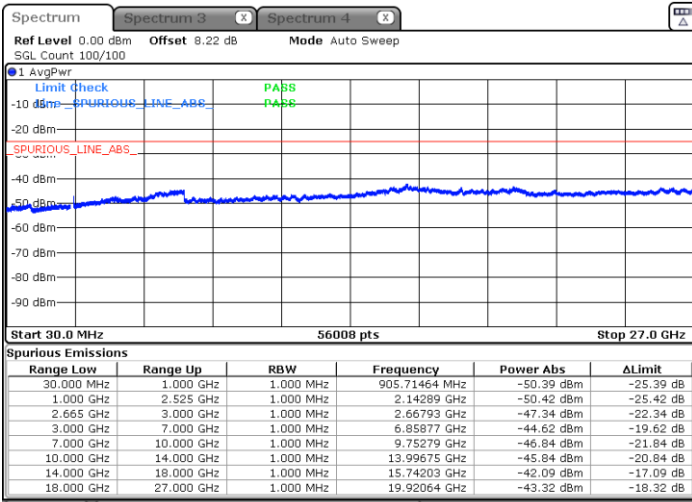


Date: 8.NOV.2021 20:01:18

Date: 8.NOV.2021 20:12:26

Highest Channel / 1RB99 and 1RB0

N/A



Date: 8.NOV.2021 20:28:14



Frequency Stability

Test Conditions		LTE Band 38C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0026	

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.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

LTE Band 2 / 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-53.84	-13	-40.84	-66.10	2.64	14.90	H
	5613	-55.07	-13	-42.07	-66.93	2.94	14.80	H
	7488	-51.52	-13	-38.52	-61.29	3.39	13.16	H
	3741	-51.63	-13	-38.63	-63.89	2.64	14.90	V
	5613	-56.91	-13	-43.91	-68.77	2.94	14.80	V
	7488	-53.38	-13	-40.38	-63.15	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 4 / 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447	-59.72	-13	-46.72	-70.46	2.604	13.34	H
	5172	-57.29	-13	-44.29	-67.80	3.011	13.52	H
	6900	-55.60	-13	-42.60	-65.80	3.271	13.47	H
	3447	-59.92	-13	-46.92	-70.66	2.604	13.34	V
	5172	-56.81	-13	-43.81	-67.32	3.011	13.52	V
	6900	-55.96	-13	-42.96	-66.16	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 5 / 10MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-61.62	-13	-48.62	-68.59	1.58	10.70	H
	2496	-45.88	-13	-32.88	-54.13	2.102	12.50	H
	3330	-58.79	-13	-45.79	-67.68	2.856	13.90	H
	1664	-58.34	-13	-45.34	-65.31	1.58	10.70	V
	2496	-38.96	-13	-25.96	-47.21	2.10	12.50	V
	3330	-59.66	-13	-46.66	-68.55	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052	-56.56	-25	-31.56	-66.77	3.03	13.24	H
	7580	-55.92	-25	-30.92	-65.37	3.56	13.01	H
	10100	-59.39	-25	-34.39	-68.91	3.92	13.44	H
	5052	-53.39	-25	-28.39	-63.60	3.03	13.24	V
	7580	-56.04	-25	-31.04	-65.49	3.56	13.01	V
	10100	-59.51	-25	-34.51	-69.03	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 41 / 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5172	-61.21	-25	-36.21	-71.42	3.03	13.24	H
	7760	-57.67	-25	-32.67	-67.12	3.56	13.01	H
	10340	-58.21	-25	-33.21	-67.73	3.92	13.44	H
	5172	-62.35	-25	-37.35	-72.56	3.03	13.24	V
	7760	-60.39	-25	-35.39	-69.84	3.56	13.01	V
	10340	-59.00	-25	-34.00	-68.52	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 7C_CA / 20MHz+20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5032	-58.28	-25	-33.28	-68.49	3.03	13.24	H
	7548	-59.88	-25	-34.88	-69.33	3.56	13.01	H
	10060	-59.77	-25	-34.77	-69.29	3.92	13.44	H
	5032	-60.61	-25	-35.61	-70.82	3.03	13.24	V
	7548	-60.28	-25	-35.28	-69.73	3.56	13.01	V
	10060	-60.06	-25	-35.06	-69.58	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38C_CA / 20MHz+20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5152	-61.27	-25	-36.27	-71.48	3.03	13.24	H
	7728	-61.21	-25	-36.21	-70.66	3.56	13.01	H
	10300	-58.85	-25	-33.85	-68.37	3.92	13.44	H
	5152	-62.06	-25	-37.06	-72.27	3.03	13.24	V
	7728	-60.98	-25	-35.98	-70.43	3.56	13.01	V
	10300	-59.21	-25	-34.21	-68.73	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.