

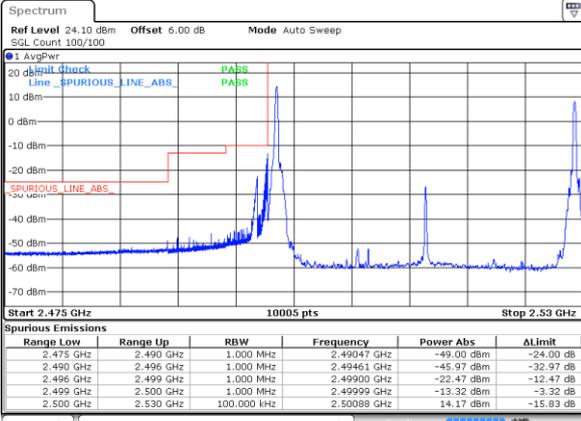


LTE Band 7 / 15MHz+15MHz

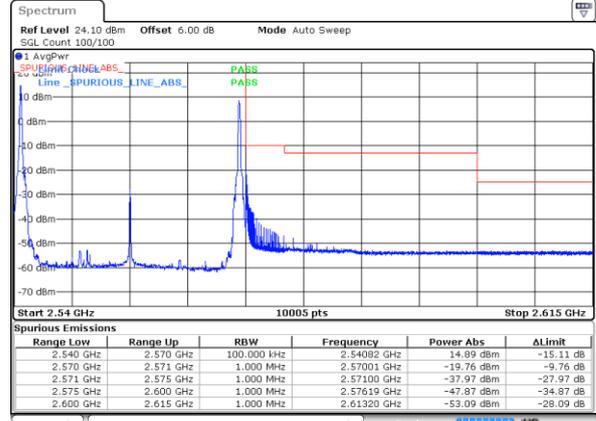
64QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74



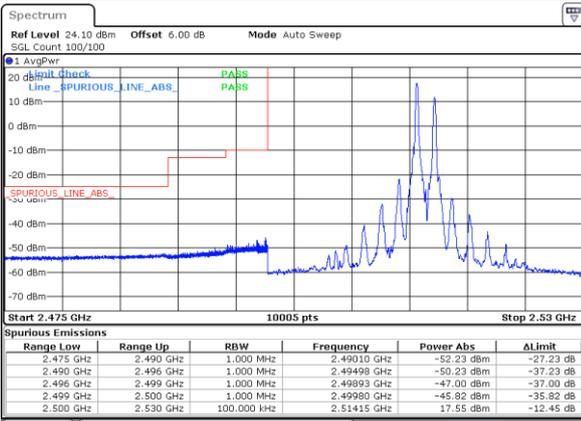
Date: 22 MAY 2021 14:57:33



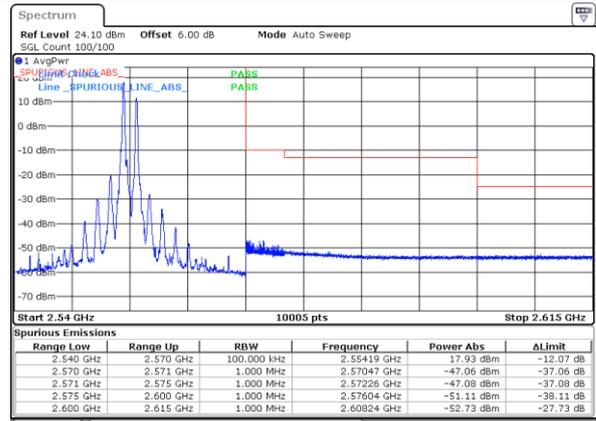
Date: 22 MAY 2021 16:14:23

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0



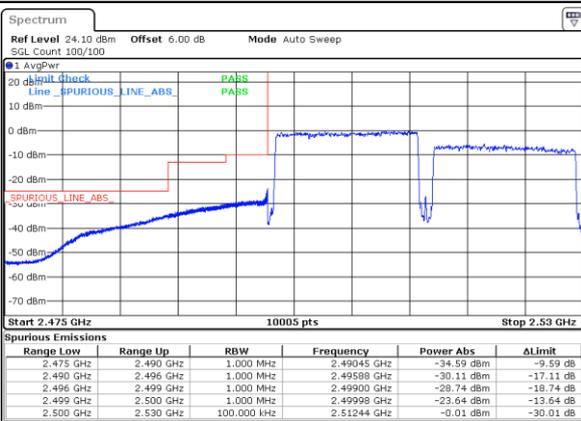
Date: 22 MAY 2021 15:00:00



Date: 22 MAY 2021 16:15:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 MAY 2021 14:57:01



Date: 22 MAY 2021 16:11:37

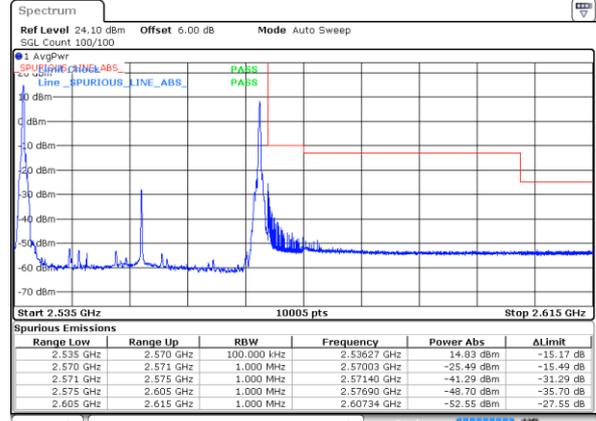
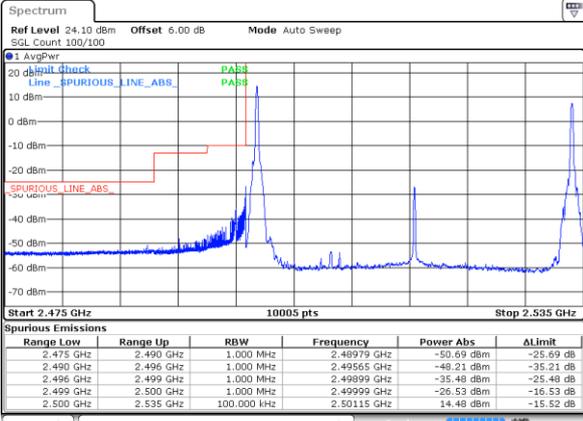


LTE Band 7 / 15MHz+20MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

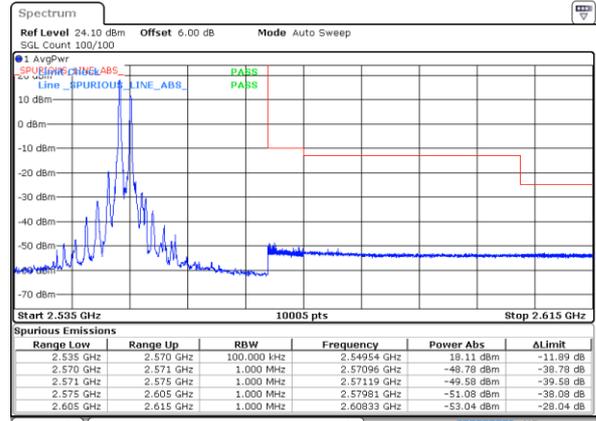
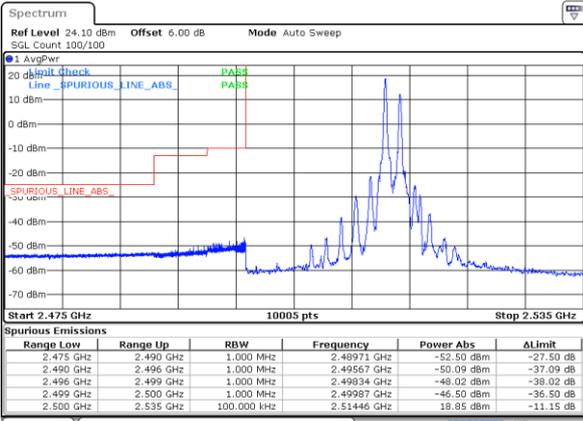


Date: 22 MAY 2021 15:07:02

Date: 22 MAY 2021 16:22:18

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

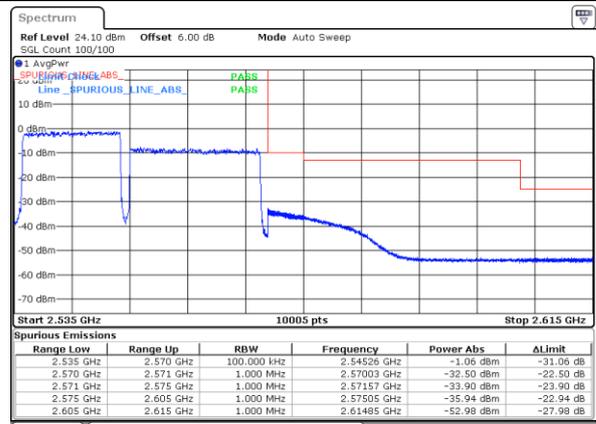
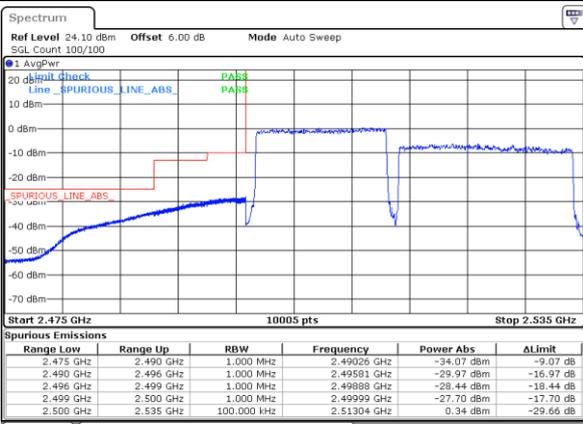


Date: 22 MAY 2021 15:12:19

Date: 22 MAY 2021 16:25:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 MAY 2021 15:03:20

Date: 22 MAY 2021 16:20:33

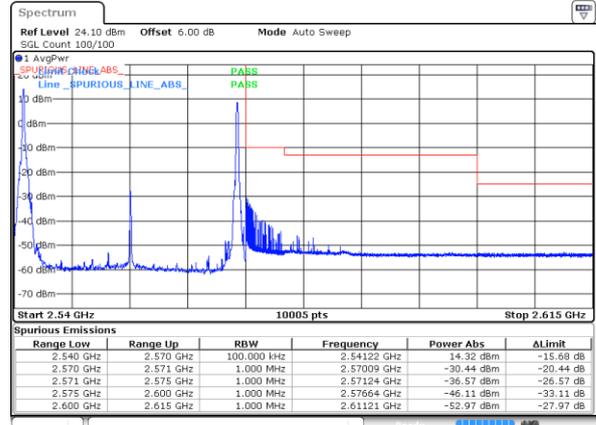
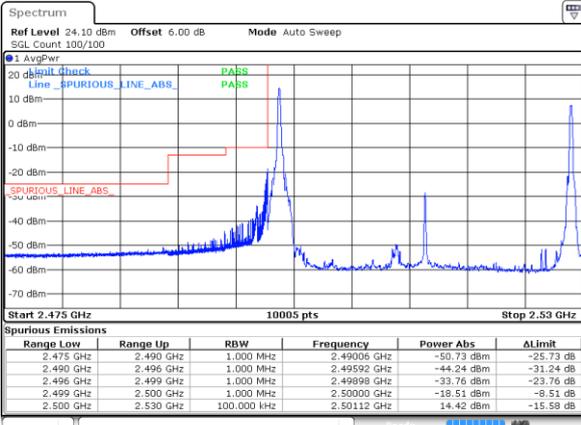


LTE Band 7 / 20MHz+10MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

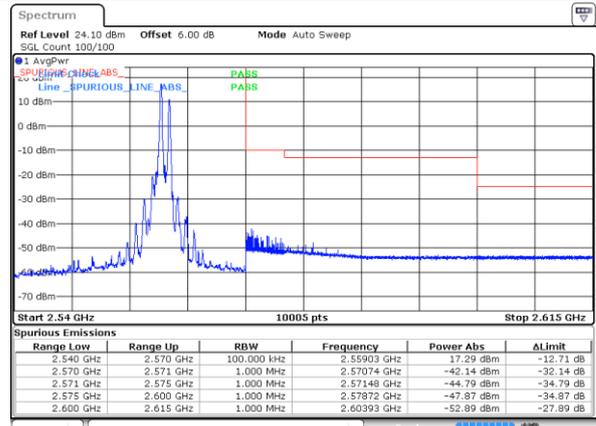
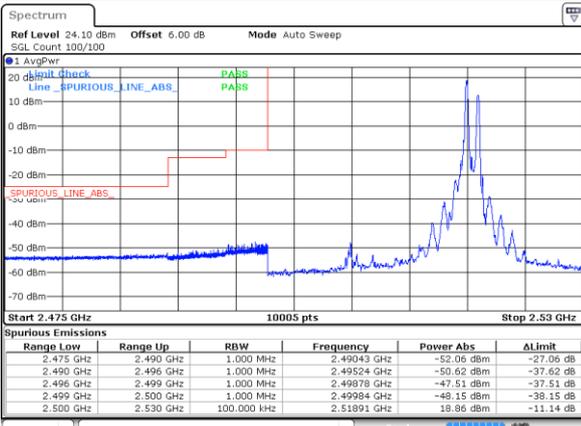


Date: 22 MAY 2021 14:52:09

Date: 22 MAY 2021 16:06:26

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

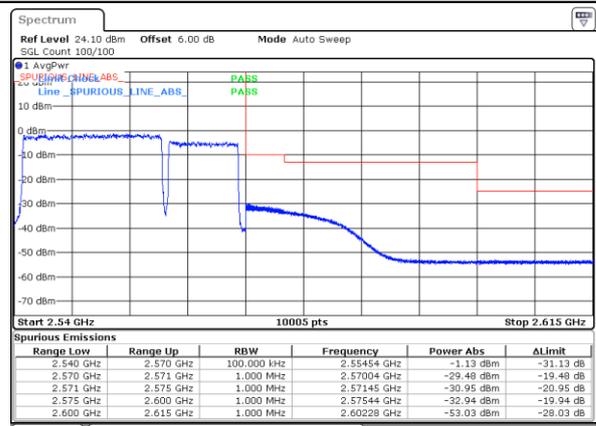
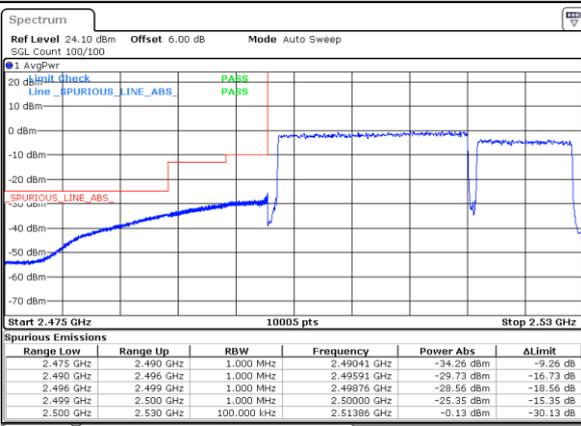


Date: 22 MAY 2021 14:52:33

Date: 22 MAY 2021 16:08:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 MAY 2021 14:49:37

Date: 22 MAY 2021 16:05:08

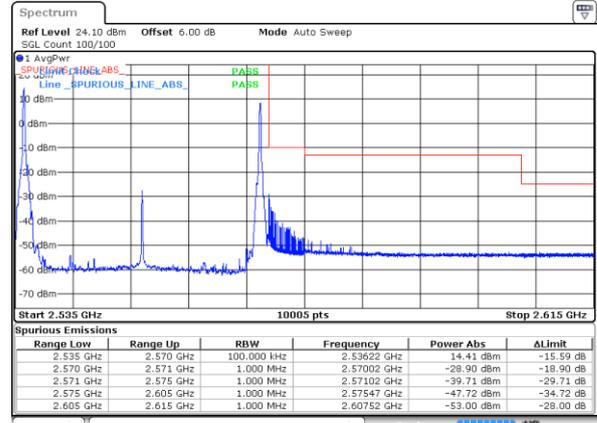
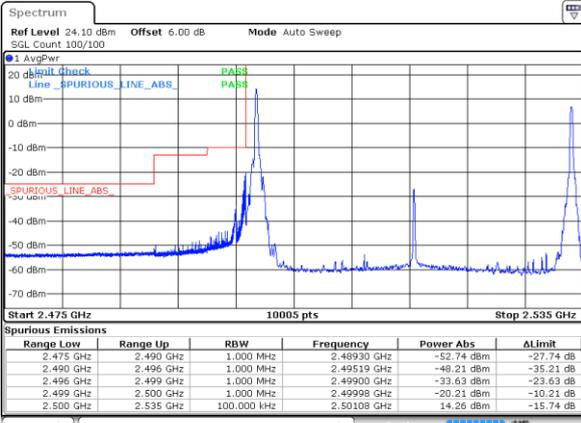


LTE Band 7 / 20MHz+15MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

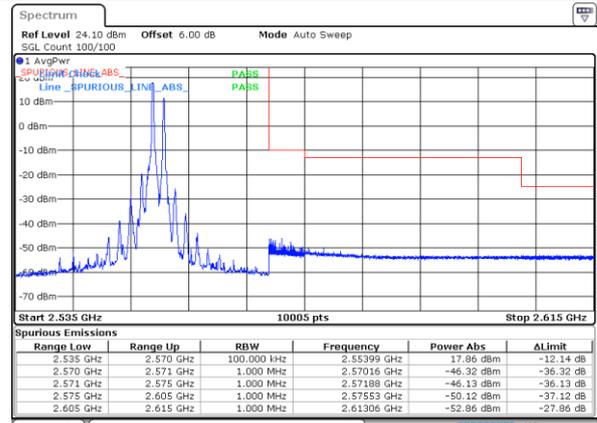
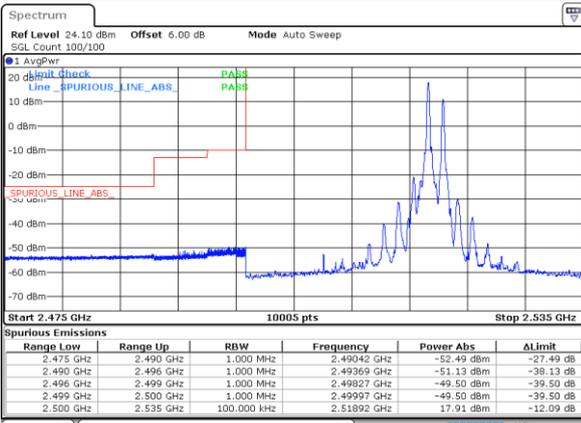


Date: 22 MAY 2021 15:16:38

Date: 22 MAY 2021 16:47:59

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

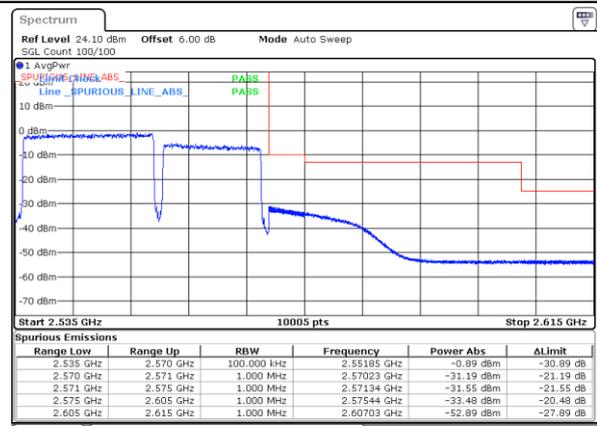
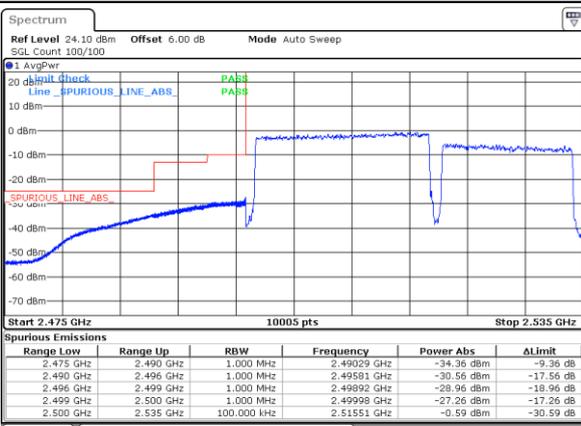


Date: 22 MAY 2021 15:20:25

Date: 22 MAY 2021 16:48:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 MAY 2021 15:16:07

Date: 22 MAY 2021 16:29:34

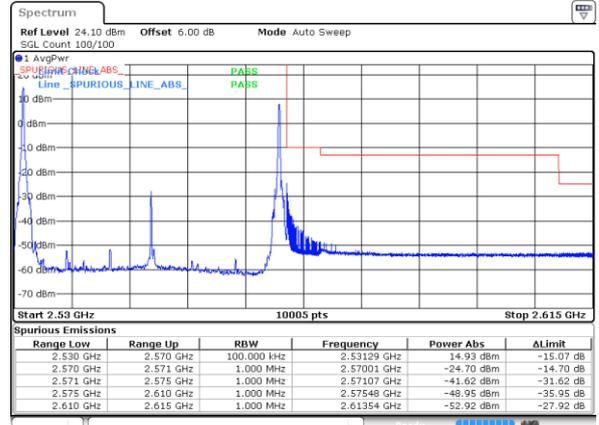
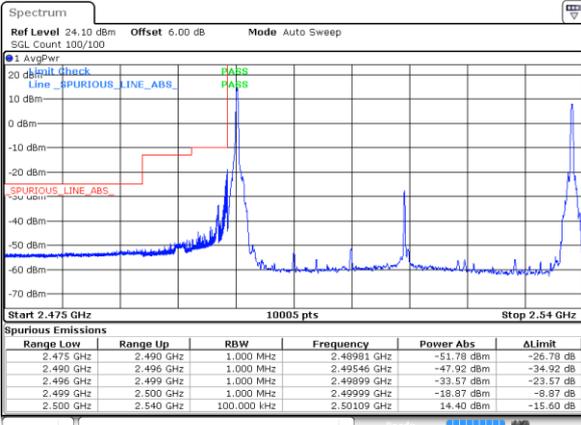


LTE Band 7 / 20MHz+20MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

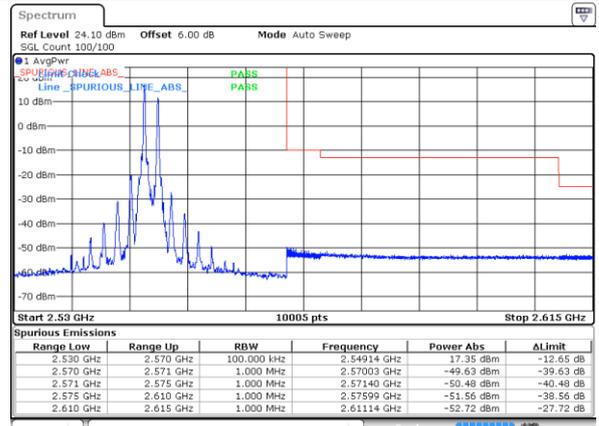
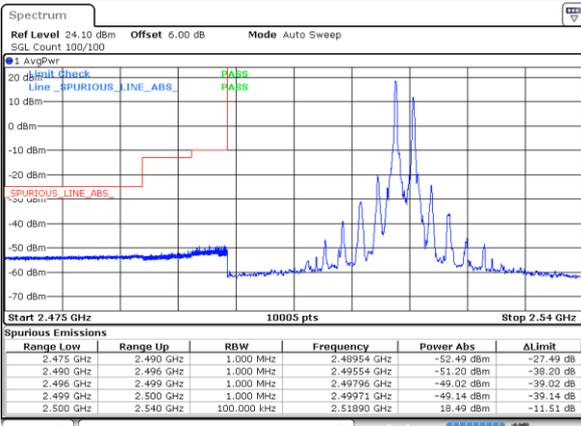


Date: 22 MAY 2021 15:36:10

Date: 22 MAY 2021 16:55:56

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

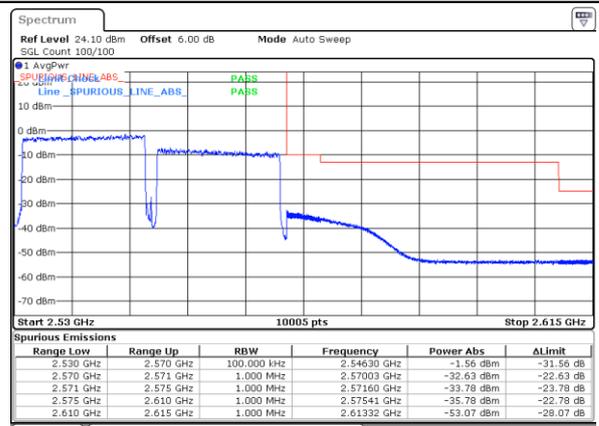
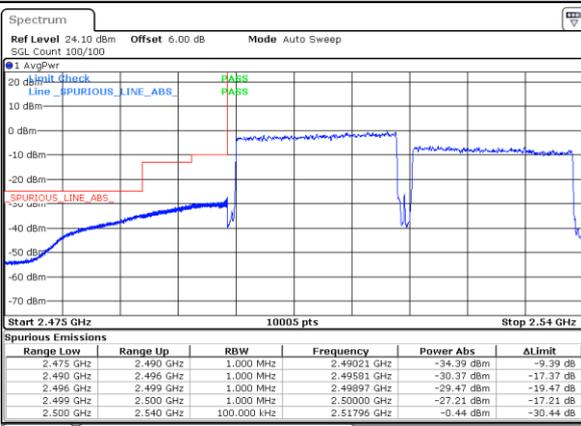


Date: 22 MAY 2021 15:36:38

Date: 22 MAY 2021 16:59:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 MAY 2021 15:32:33

Date: 22 MAY 2021 16:54:47

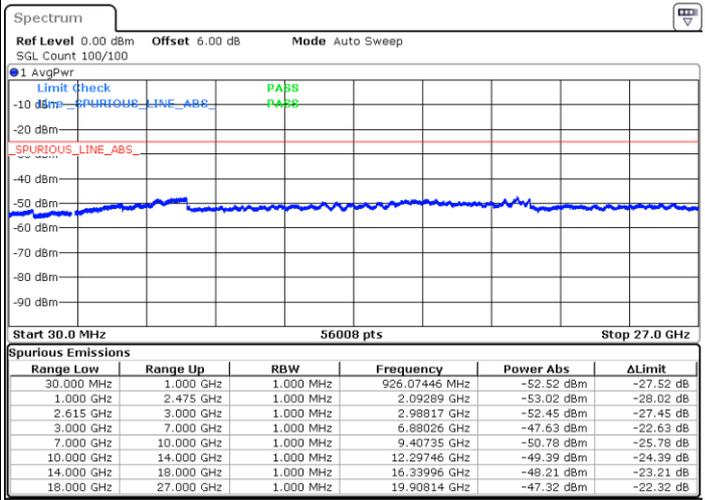
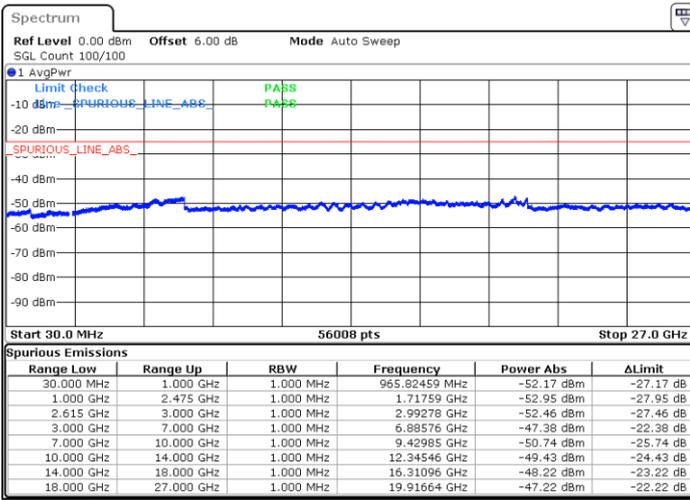


Conducted Spurious Emission

LTE Band 7 / 10MHz+20MHz

Lowest Channel / QPSK

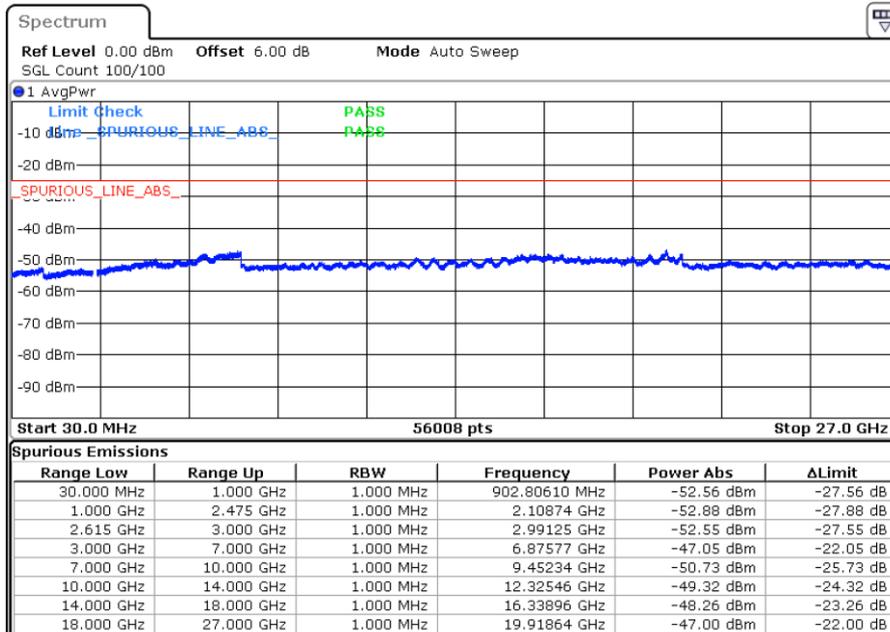
Middle Channel / QPSK



Date: 22 MAY 2021 17:11:27

Date: 22 MAY 2021 17:12:20

Highest Channel / QPSK



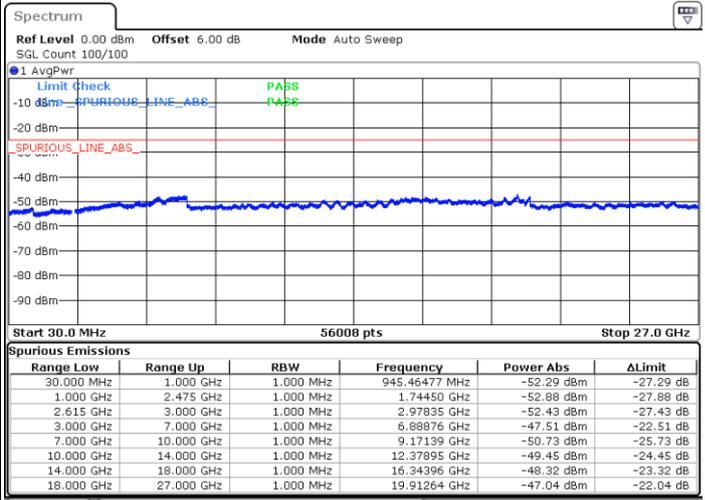
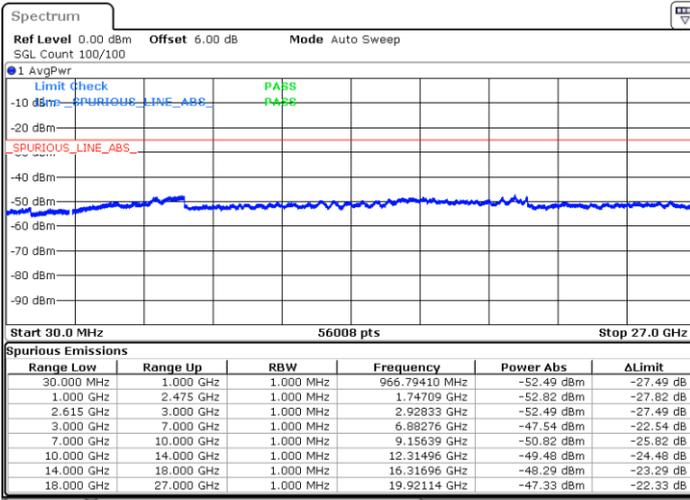
Date: 22 MAY 2021 17:13:51



LTE Band 7 / 15MHz+10MHz

Lowest Channel / QPSK

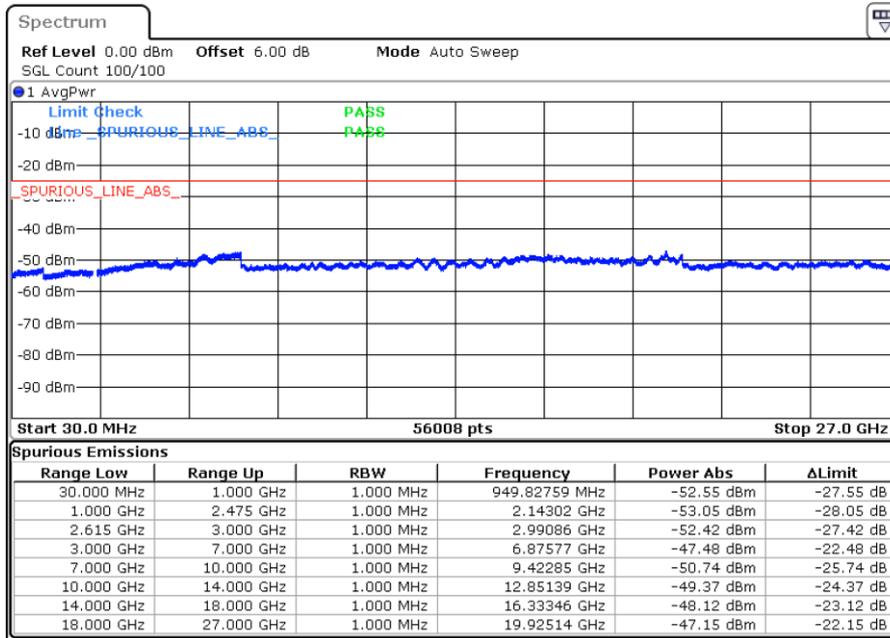
Middle Channel / QPSK



Date: 22 MAY 2021 17:38:12

Date: 22 MAY 2021 17:42:37

Highest Channel / QPSK



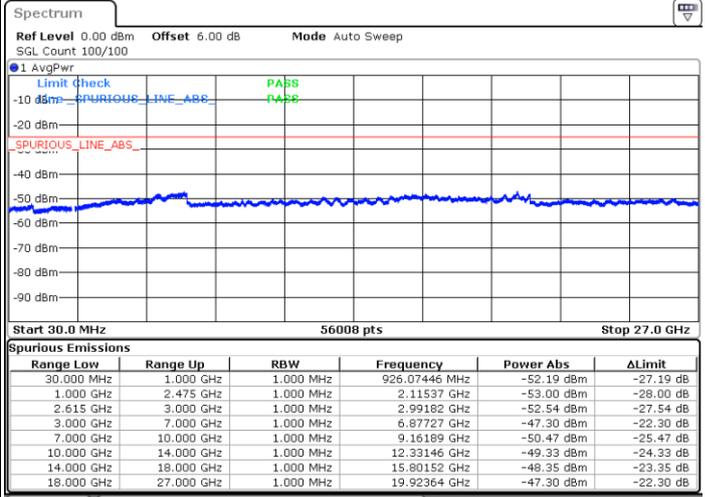
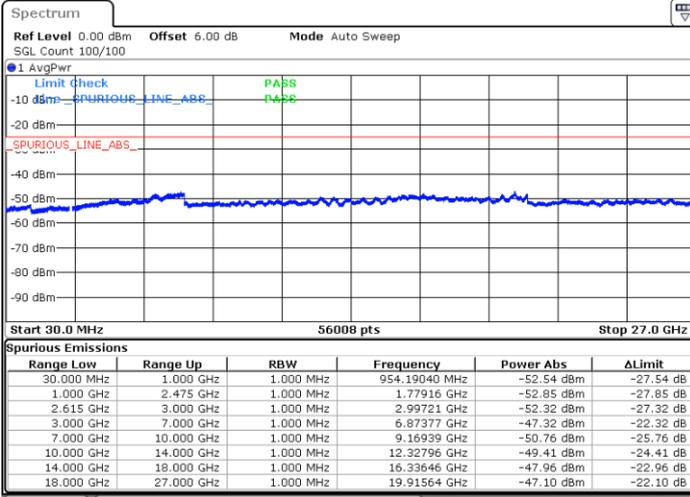
Date: 22 MAY 2021 17:43:59



LTE Band 7 / 15MHz+15MHz

Lowest Channel / QPSK

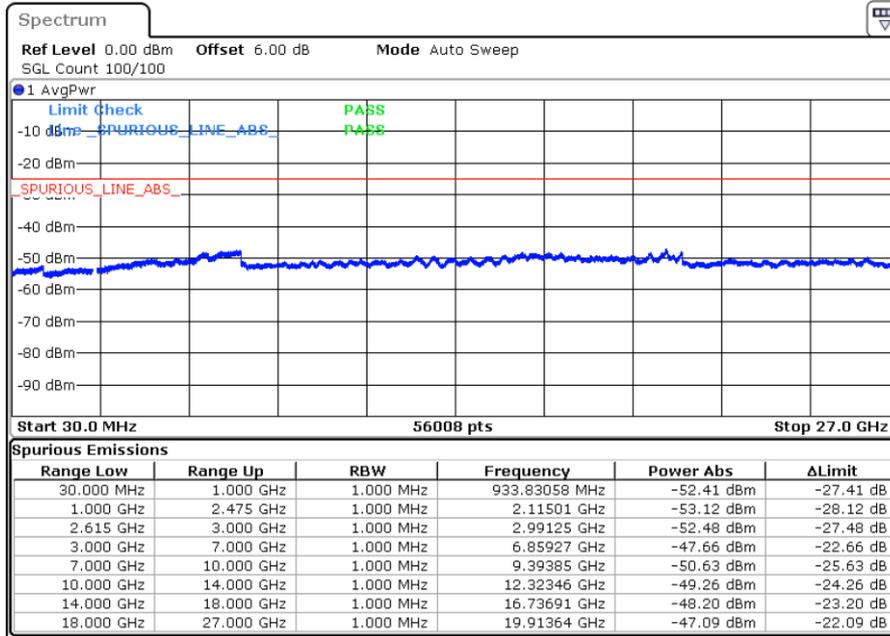
Middle Channel / QPSK



Date: 22 MAY 2021 17:20:29

Date: 22 MAY 2021 17:22:46

Highest Channel / QPSK



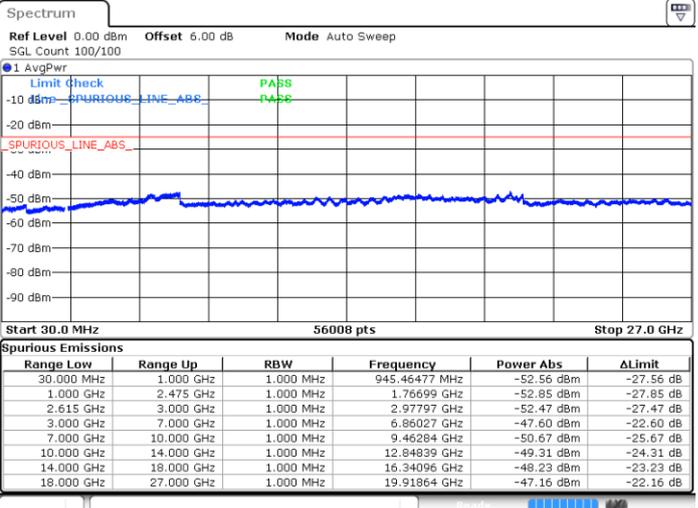
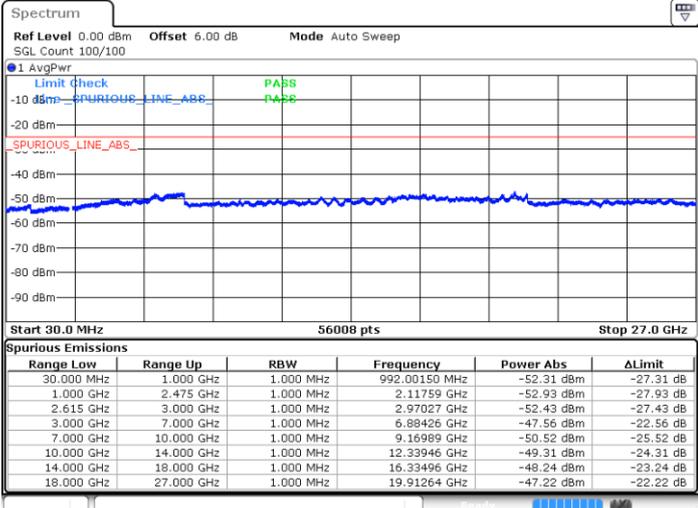
Date: 22 MAY 2021 17:23:40



LTE Band 7 / 15MHz+20MHz

Lowest Channel / QPSK

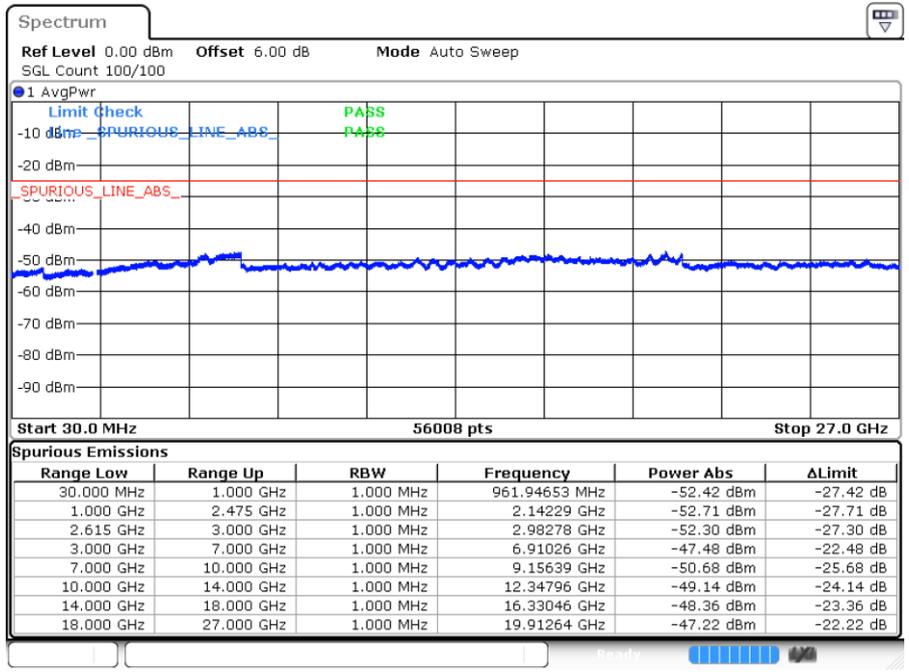
Middle Channel / QPSK



Date: 22 MAY 2021 17:25:23

Date: 22 MAY 2021 17:27:40

Highest Channel / QPSK



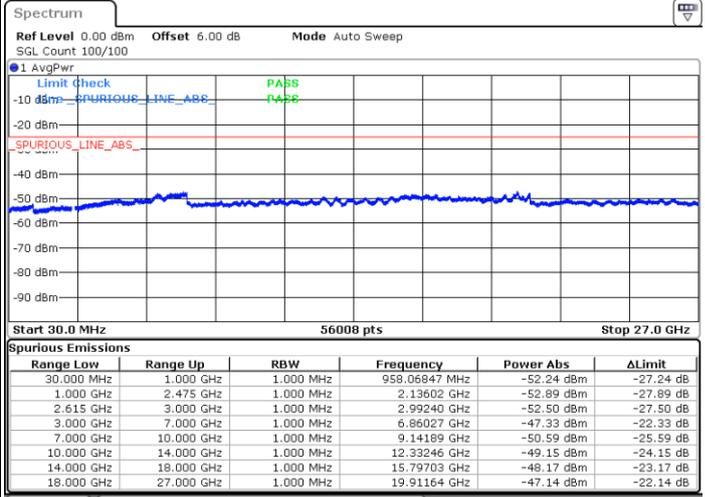
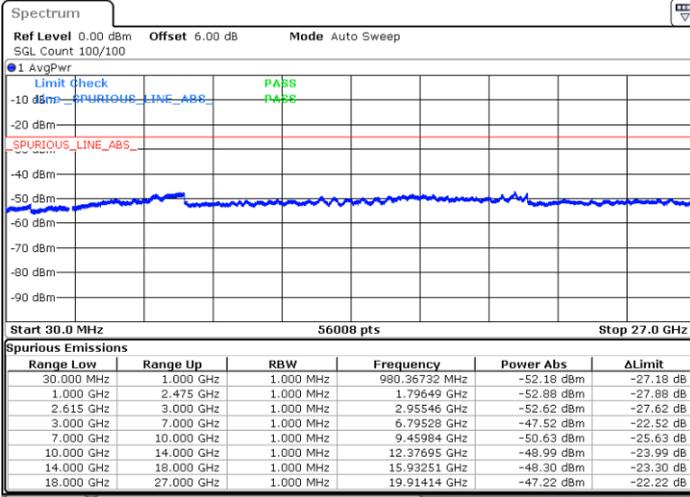
Date: 22 MAY 2021 17:30:54



LTE Band 7 / 20MHz+10MHz

Lowest Channel / QPSK

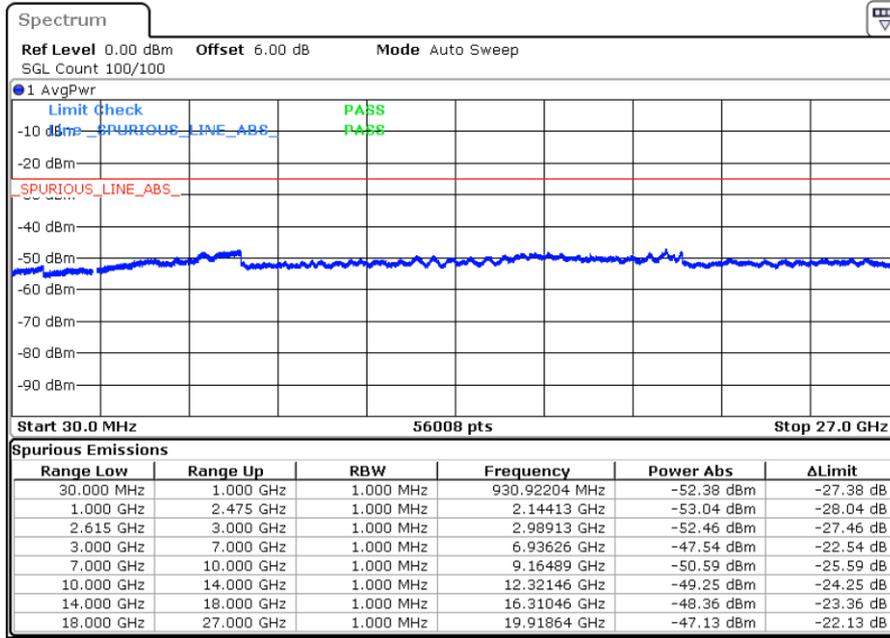
Middle Channel / QPSK



Date: 22 MAY 2021 17:14:38

Date: 22 MAY 2021 17:15:29

Highest Channel / QPSK



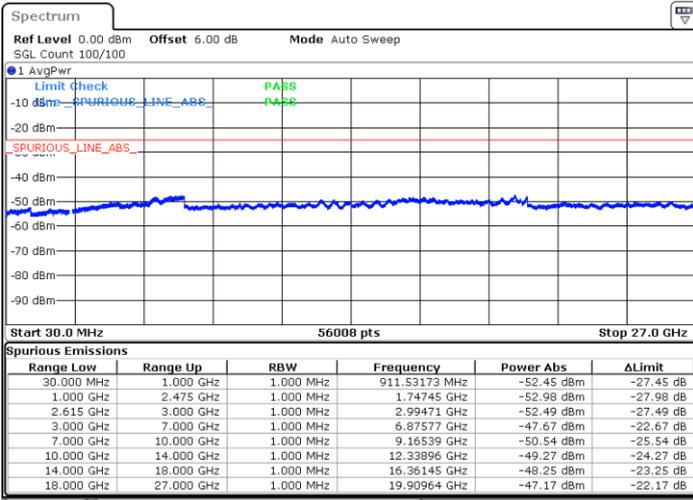
Date: 22 MAY 2021 17:18:49



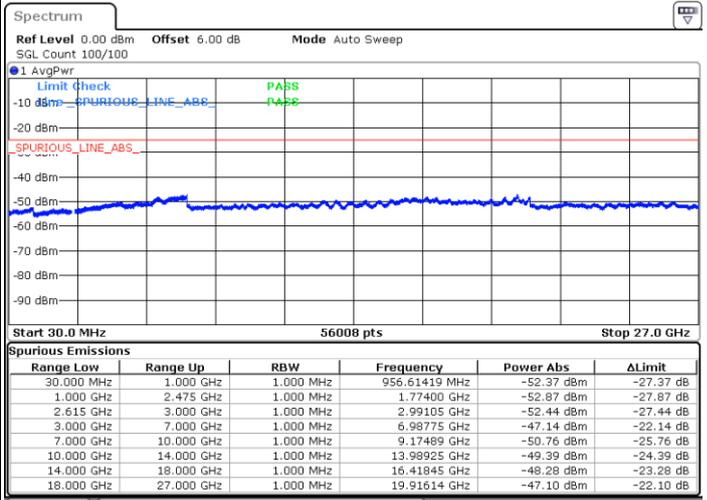
LTE Band 7 / 20MHz+15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

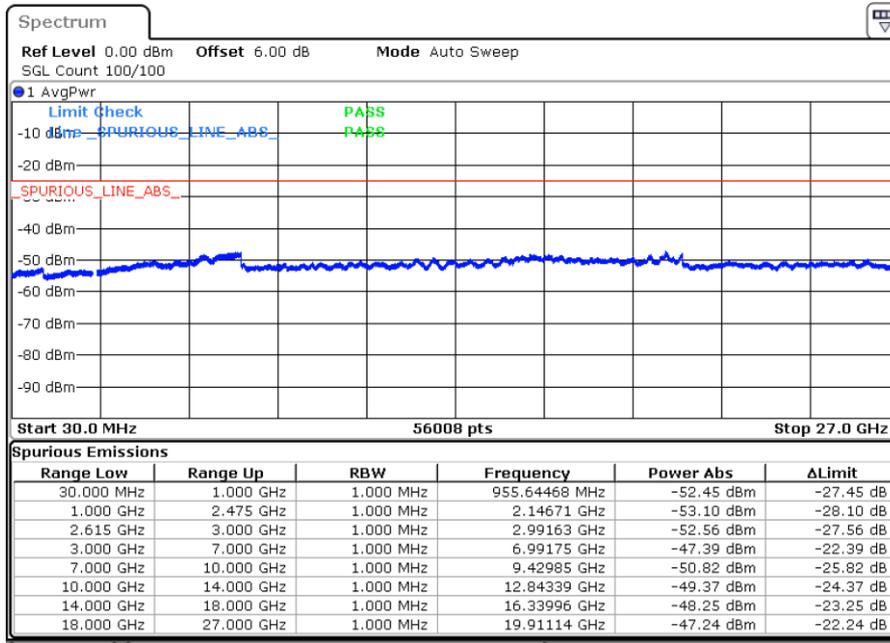


Date: 22 MAY 2021 17:31:46



Date: 22 MAY 2021 17:33:26

Highest Channel / QPSK



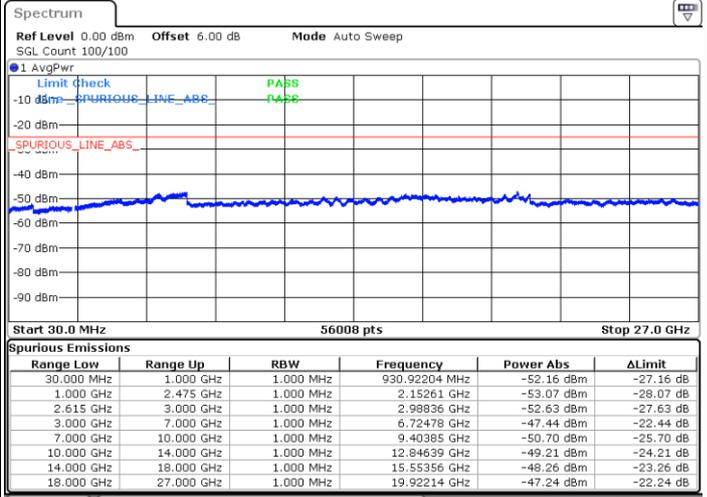
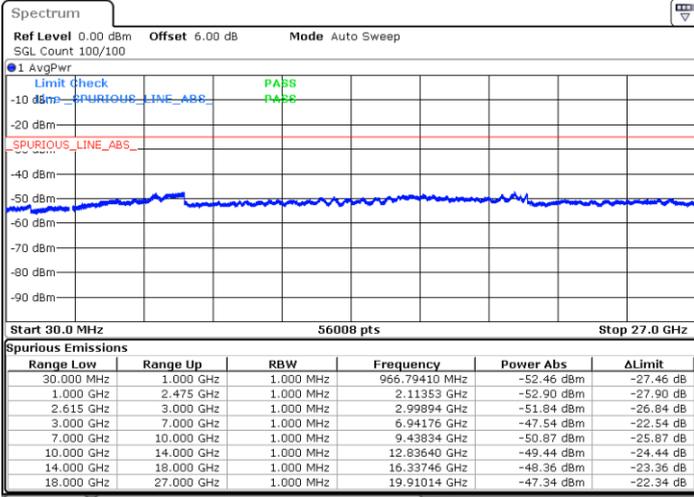
Date: 22 MAY 2021 17:34:17



LTE Band 7 /20MHz+20MHz

Lowest Channel / QPSK

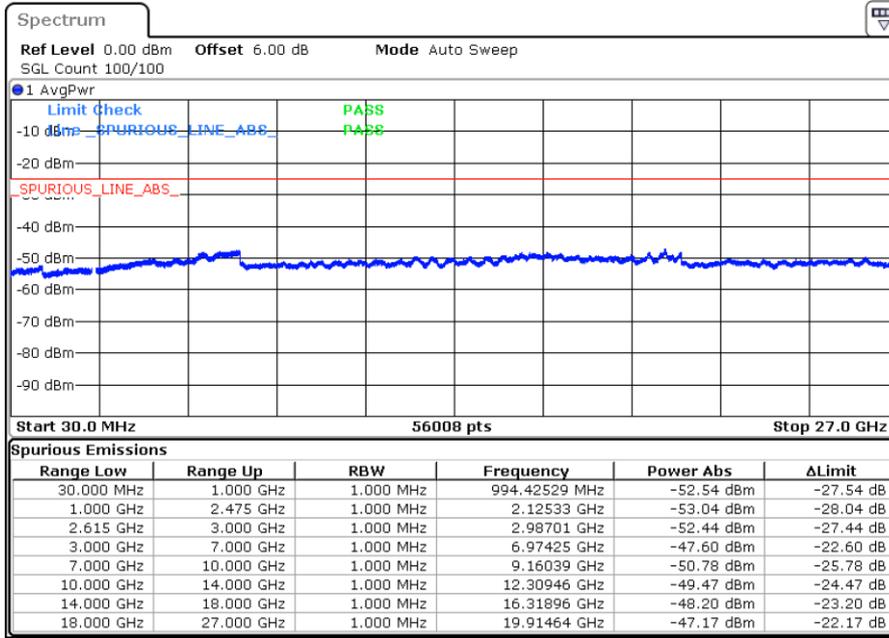
Middle Channel / QPSK



Date: 22 MAY 2021 17:35:07

Date: 22 MAY 2021 17:36:06

Highest Channel / QPSK



Date: 22 MAY 2021 17:36:59



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.02	PASS
40	Normal Voltage	0.08	
30	Normal Voltage	-0.04	
20(Ref.)	Normal Voltage	0.00	
10	Normal Voltage	0.06	
0	Normal Voltage	-0.07	
-10	Normal Voltage	0.12	
-20	Normal Voltage	-0.01	
-30	Normal Voltage	-0.02	
20	Maximum Voltage	0.02	
20	Normal Voltage	0.02	
20	Battery End Point	-0.12	

Note:

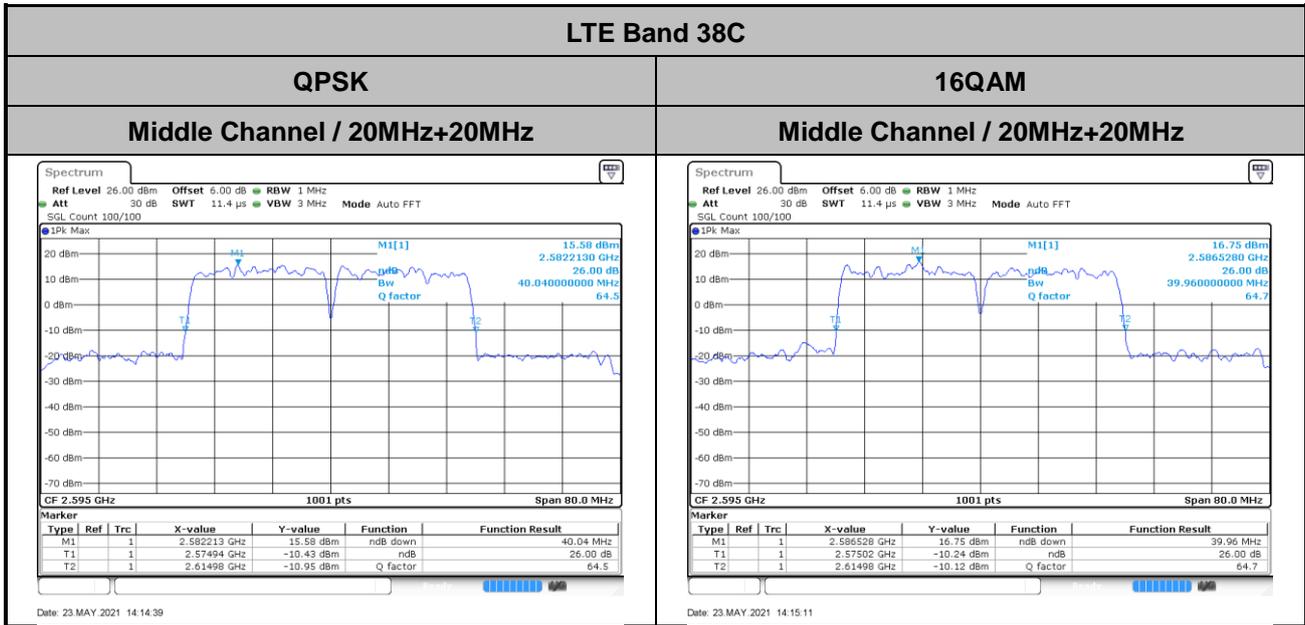
1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =6.9V. ; Maximum Voltage =8.9 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38C

26dB Bandwidth

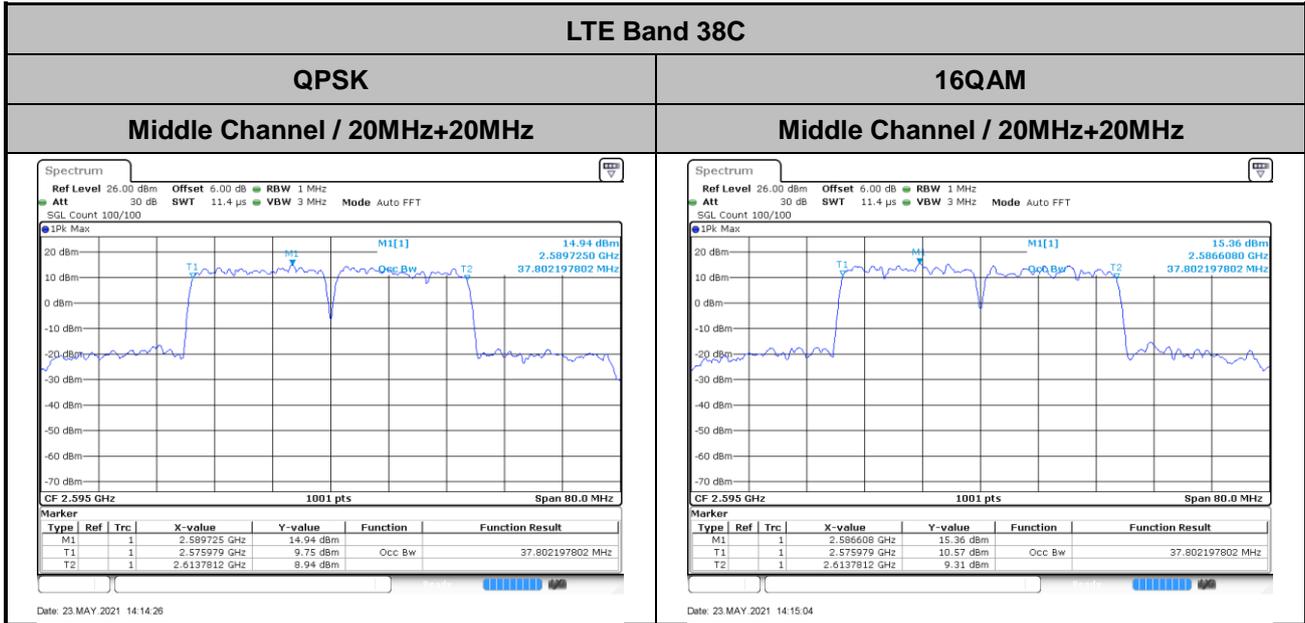
Mode	LTE Band 38C : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	40.04	39.96





Occupied Bandwidth

Mode	LTE Band 38C : 99%OBW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.80	37.80



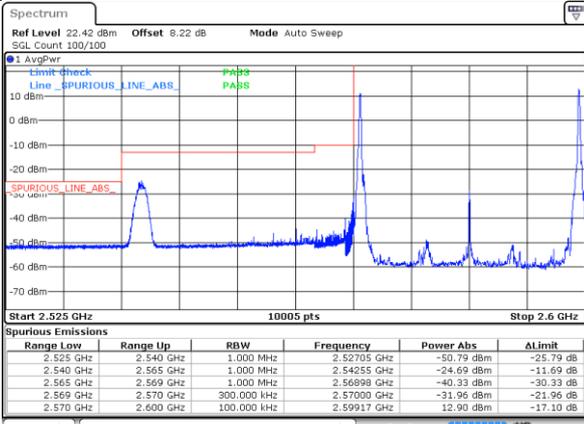


Conducted Band Edge

LTE Band 38C / 15MHz+15MHz

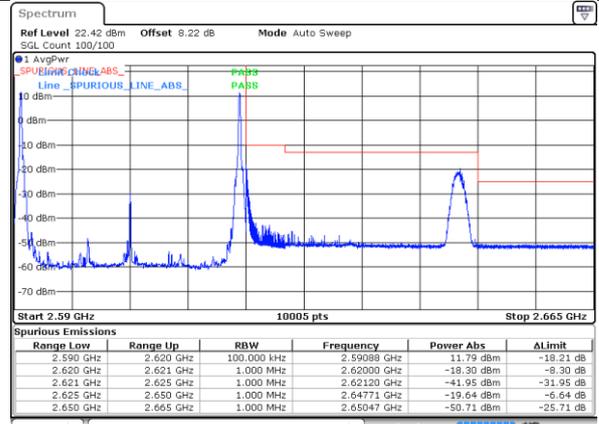
QPSK

Lowest Band Edge / 1RB0 and 1RB74



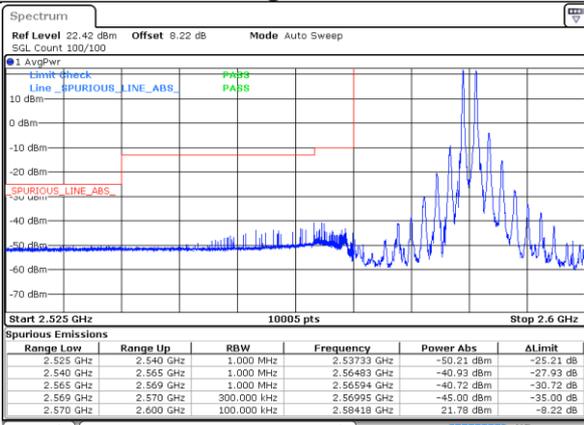
Date: 23 MAY 2021 12:59:45

Highest Band Edge / 1RB0 and 1RB74



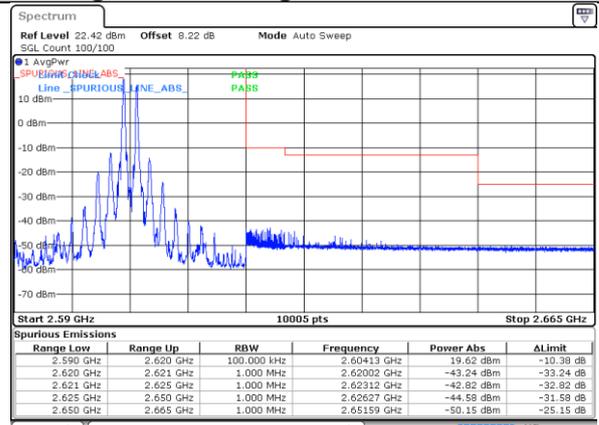
Date: 23 MAY 2021 13:05:12

Lowest Band Edge / 1RB74 and 1RB0



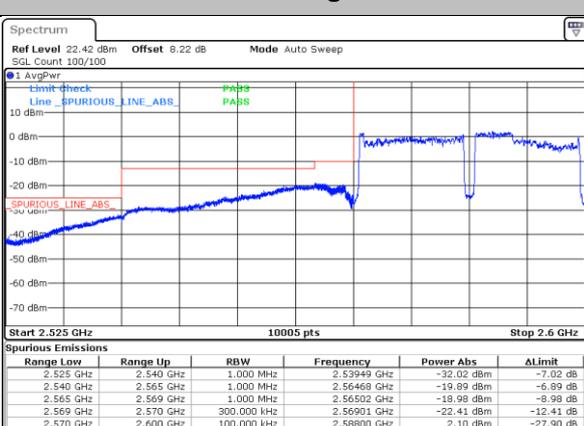
Date: 23 MAY 2021 13:00:10

Highest Band Edge / 1RB74 and 1RB0



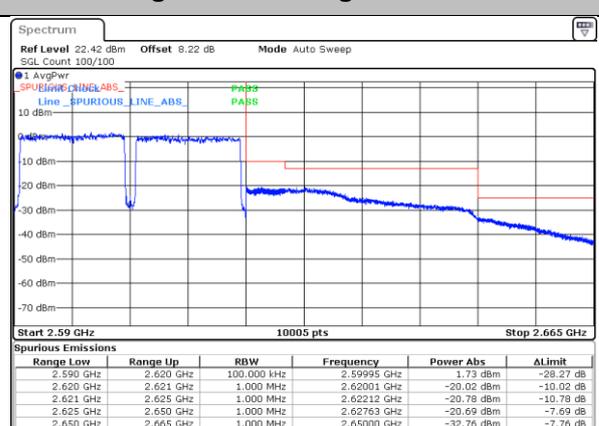
Date: 23 MAY 2021 20:20:32

Lowest Band Edge / Full RB



Date: 23 MAY 2021 12:54:54

Highest Band Edge / Full RB



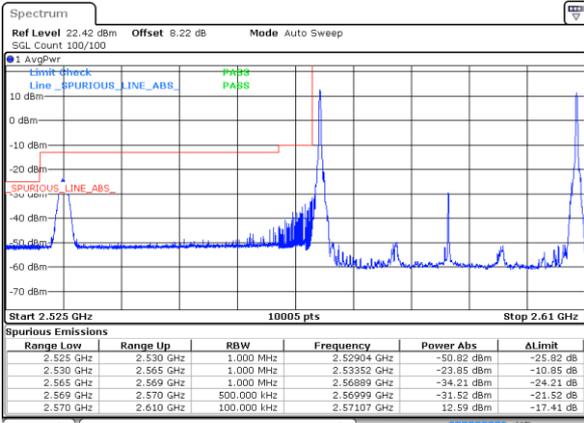
Date: 23 MAY 2021 13:04:11



LTE Band 38C / 20MHz+20MHz

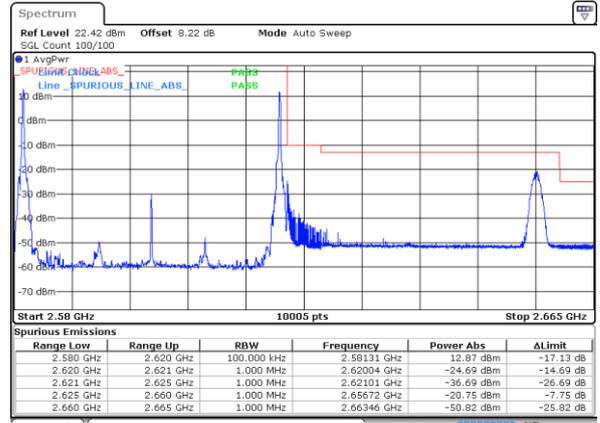
QPSK

Lowest Band Edge / 1RB0 and 1RB9



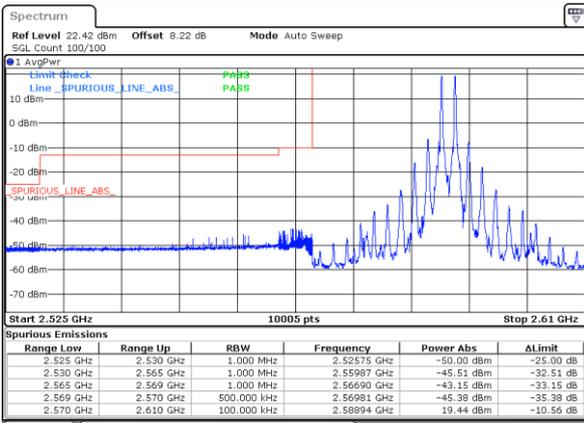
Date: 23 MAY 2021 13:12:59

Highest Band Edge / 1RB0 and 1RB9



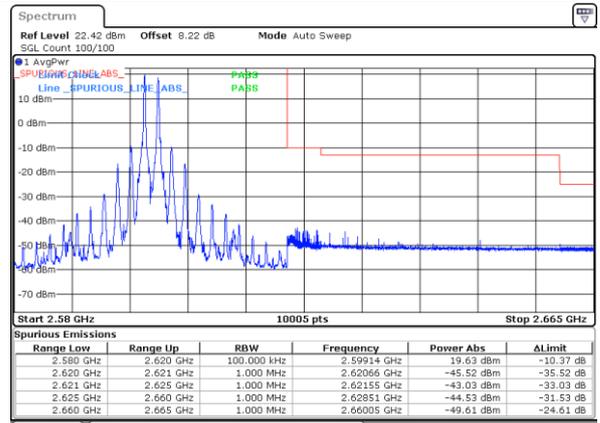
Date: 23 MAY 2021 14:00:21

Lowest Band Edge / 1RB99 and 1RB0



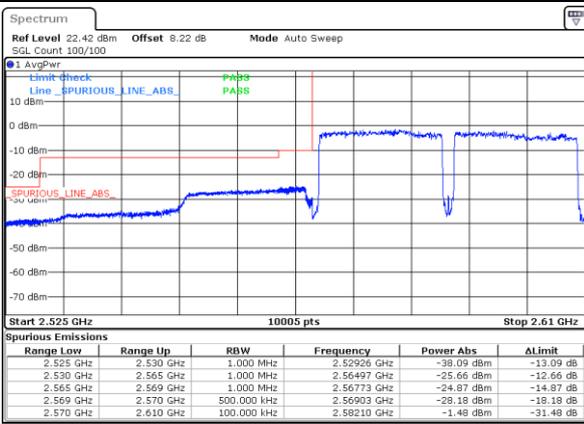
Date: 23 MAY 2021 13:16:17

Highest Band Edge / 1RB99 and 1RB0



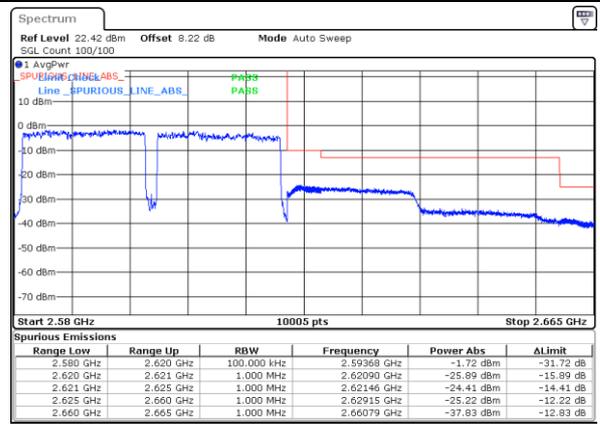
Date: 23 MAY 2021 14:06:21

Lowest Band Edge / Full RB



Date: 23 MAY 2021 13:12:29

Highest Band Edge / Full RB



Date: 23 MAY 2021 13:49:47

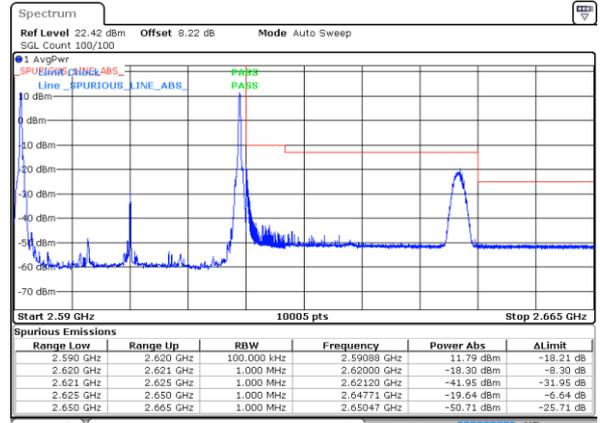
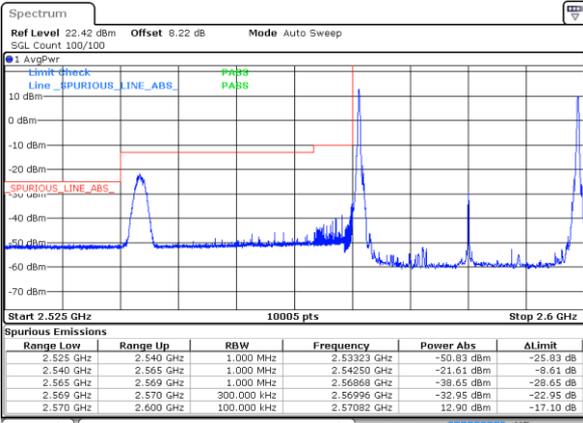


LTE Band 38C / 15MHz+15MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

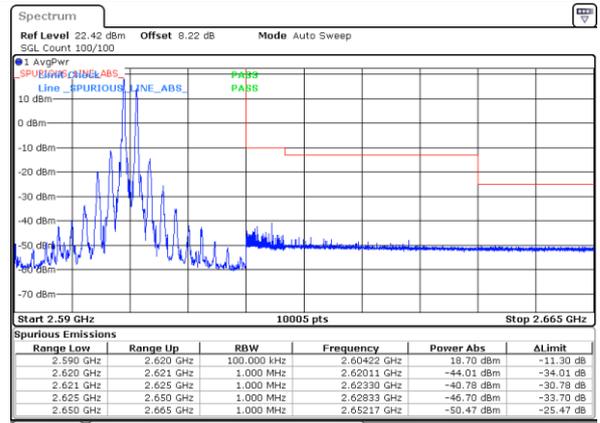
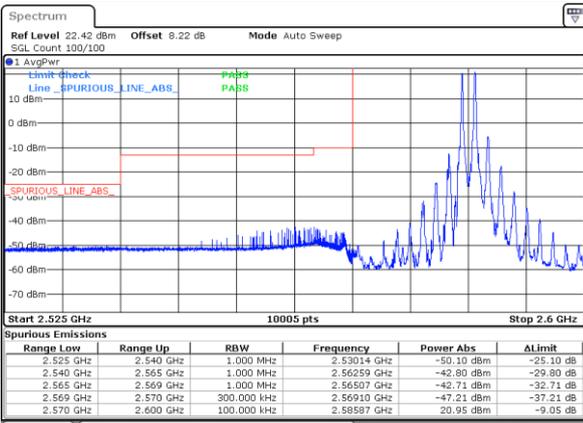


Date: 23 MAY 2021 12:59:06

Date: 23 MAY 2021 13:05:12

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

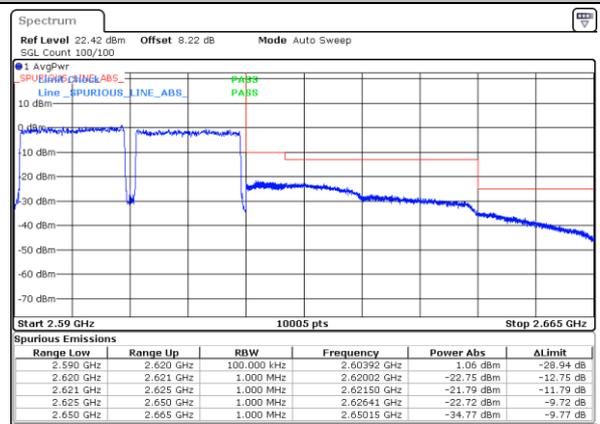
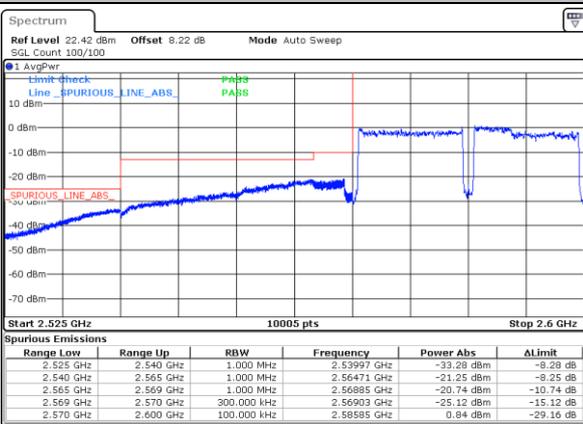


Date: 23 MAY 2021 13:00:30

Date: 23 MAY 2021 20:20:54

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23 MAY 2021 12:56:42

Date: 23 MAY 2021 13:03:48

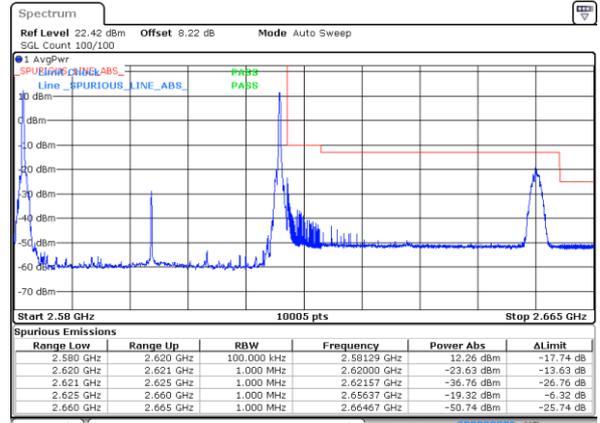
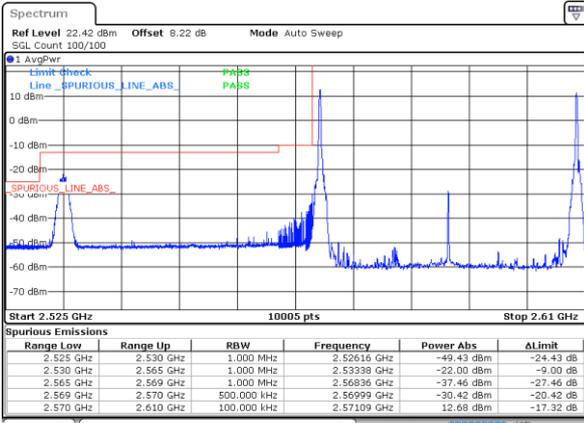


LTE Band 38C / 20MHz+20MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

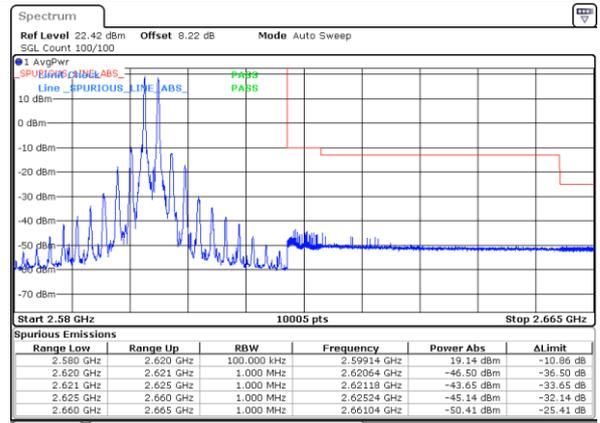
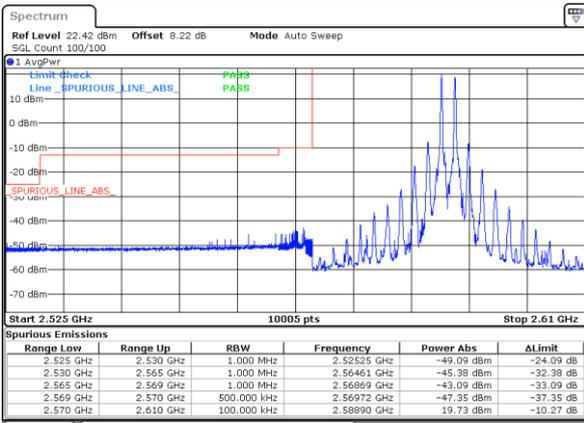


Date: 23 MAY 2021 13:13:29

Date: 23 MAY 2021 13:55:19

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

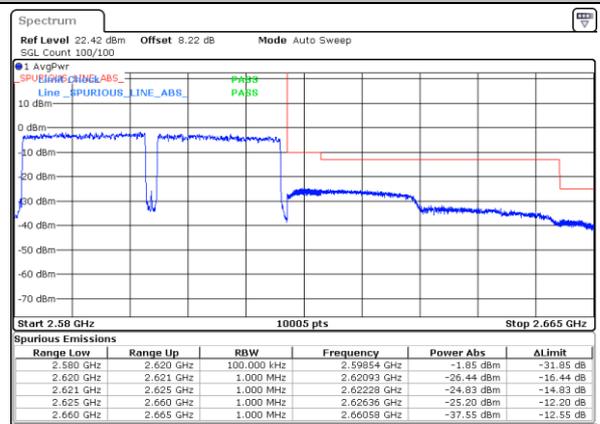
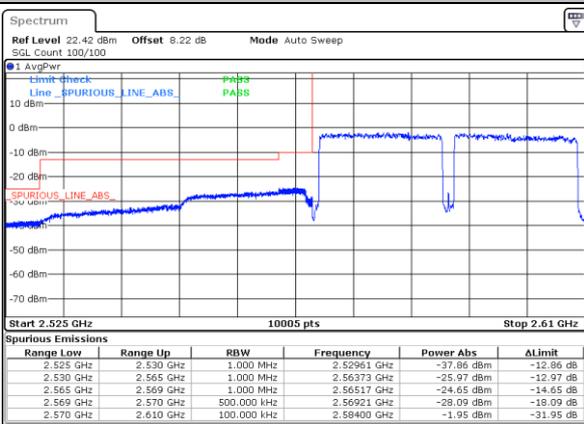


Date: 23 MAY 2021 13:14:36

Date: 23 MAY 2021 14:07:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23 MAY 2021 13:11:43

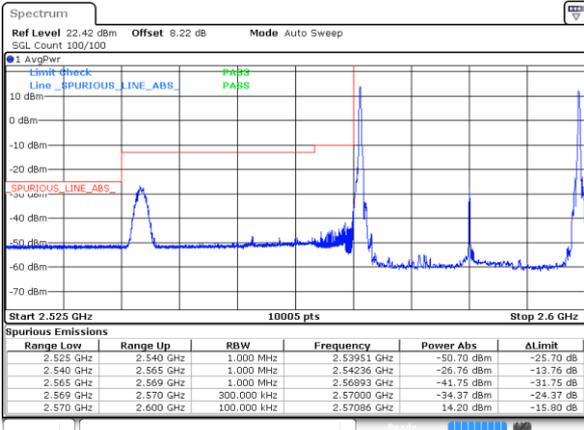
Date: 23 MAY 2021 13:53:10



LTE Band 38C / 15MHz+15MHz

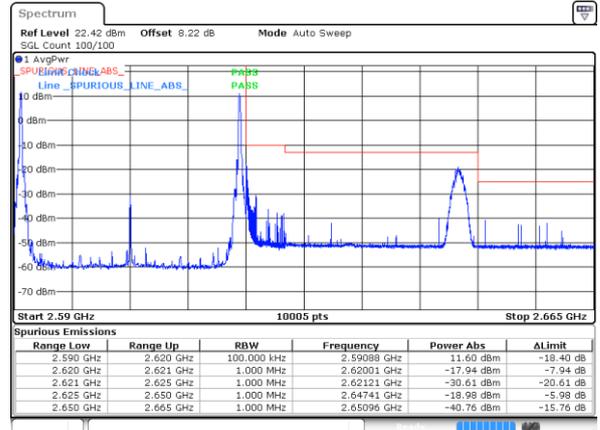
64QAM

Lowest Band Edge / 1RB0 and 1RB74



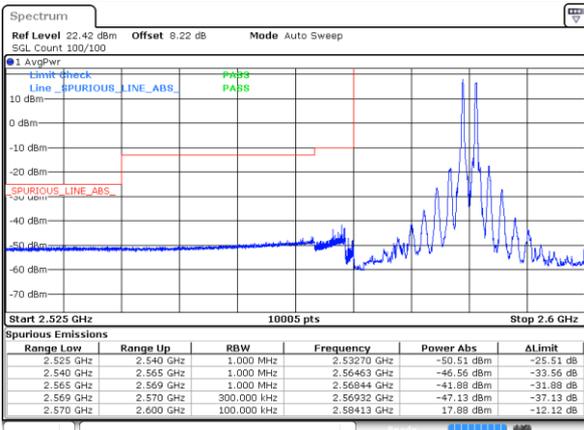
Date: 23 MAY 2021 12:58:45

Highest Band Edge / 1RB0 and 1RB74



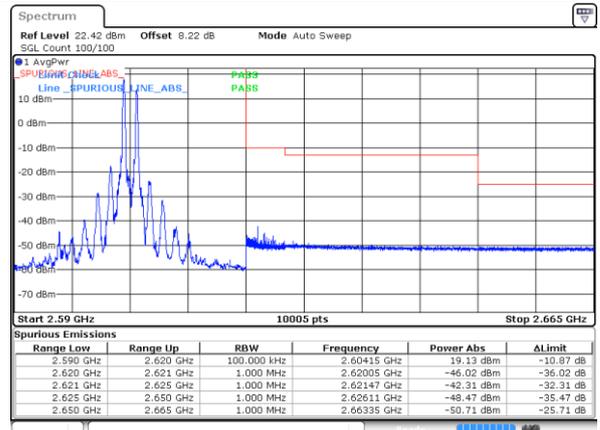
Date: 23 MAY 2021 13:06:03

Lowest Band Edge / 1RB74 and 1RB0



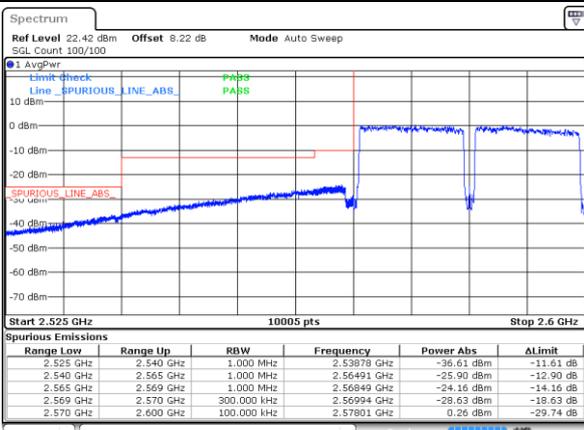
Date: 23 MAY 2021 13:00:50

Highest Band Edge / 1RB74 and 1RB0



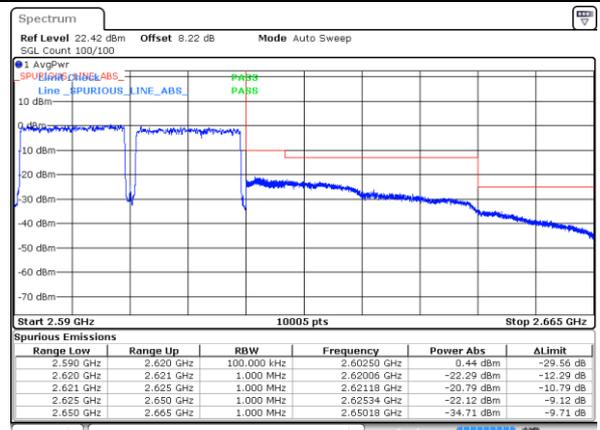
Date: 23 MAY 2021 20:21:19

Lowest Band Edge / Full RB



Date: 23 MAY 2021 12:58:18

Highest Band Edge / Full RB



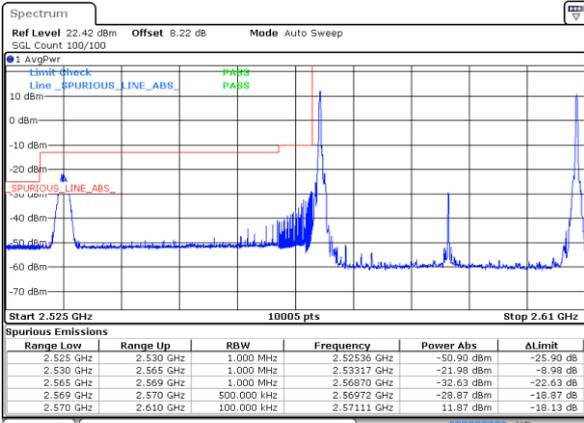
Date: 23 MAY 2021 13:03:22



LTE Band 38C / 20MHz+20MHz

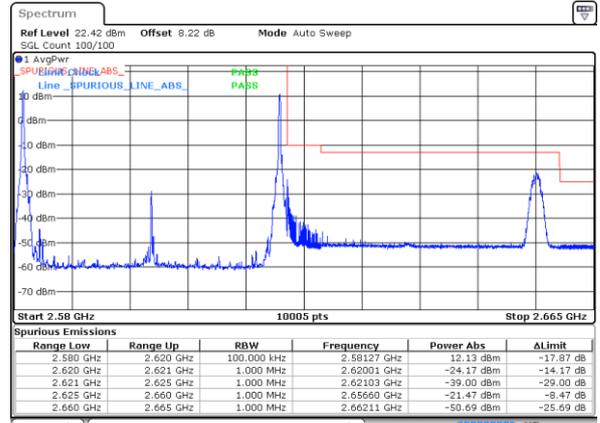
64QAM

Lowest Band Edge / 1RB0 and 1RB9



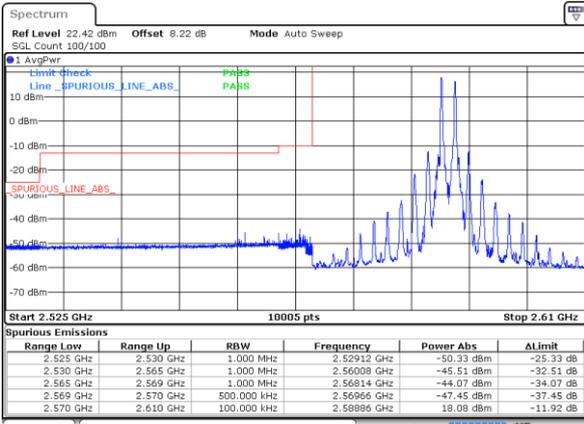
Date: 23 MAY 2021 13:13:49

Highest Band Edge / 1RB0 and 1RB9



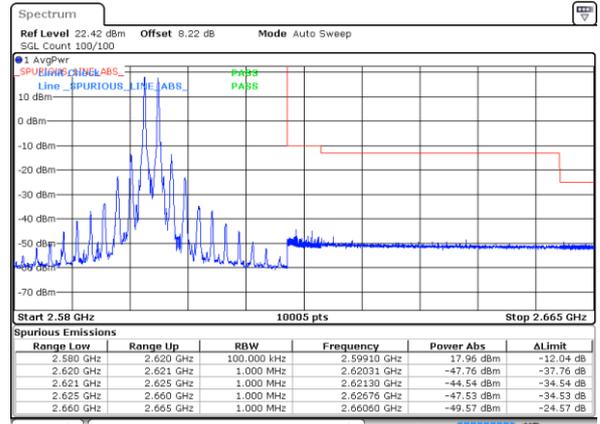
Date: 23 MAY 2021 13:54:39

Lowest Band Edge / 1RB99 and 1RB0



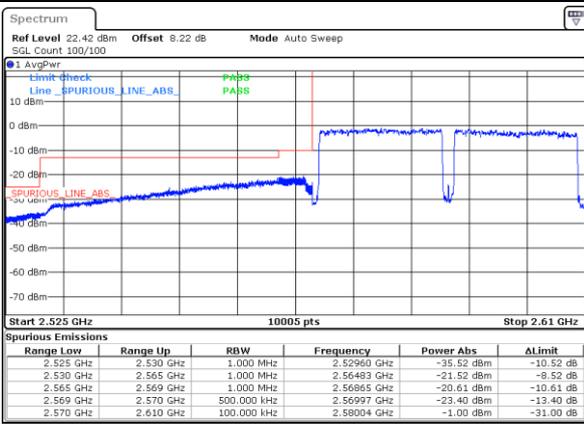
Date: 23 MAY 2021 13:14:15

Highest Band Edge / 1RB99 and 1RB0



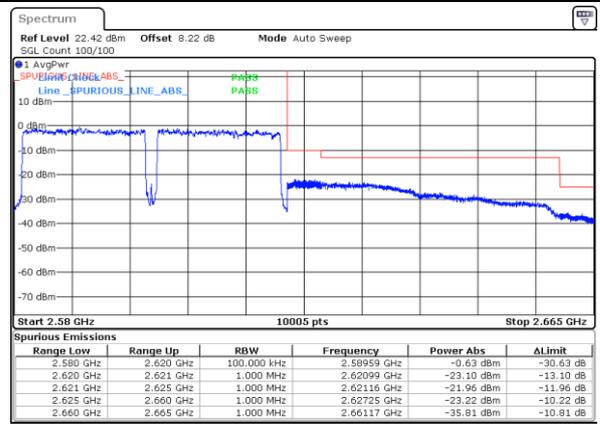
Date: 23 MAY 2021 14:07:52

Lowest Band Edge / Full RB



Date: 23 MAY 2021 13:11:20

Highest Band Edge / Full RB



Date: 23 MAY 2021 13:53:41



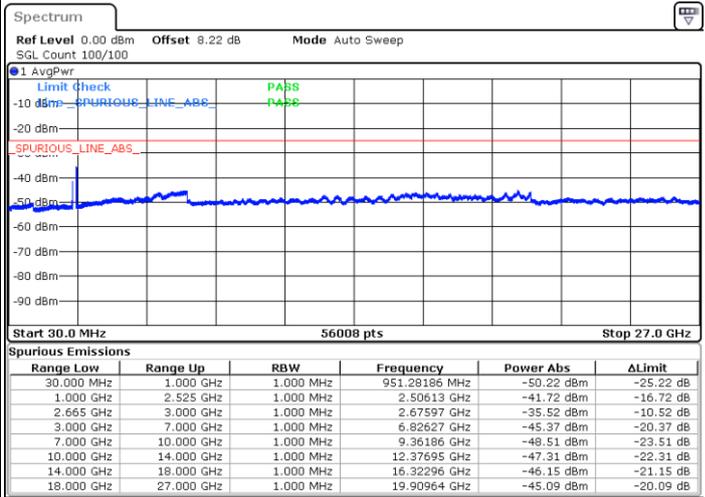
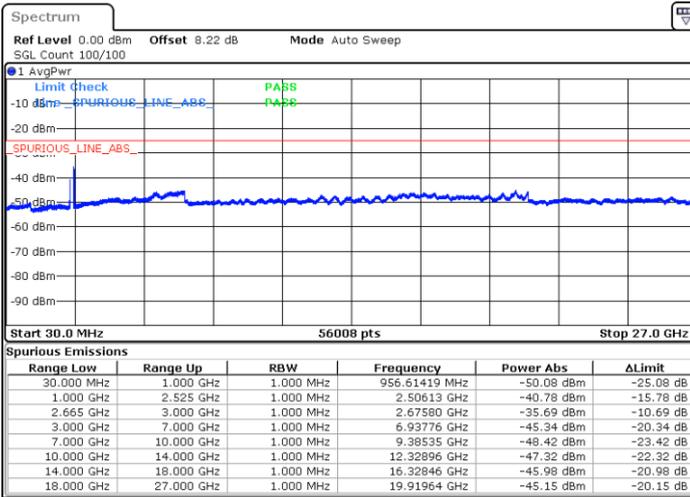
Conducted Spurious Emission

LTE Band 38C / 15MHz+15MHz

QPSK

Lowest Channel / 1RB74 and 1RB0

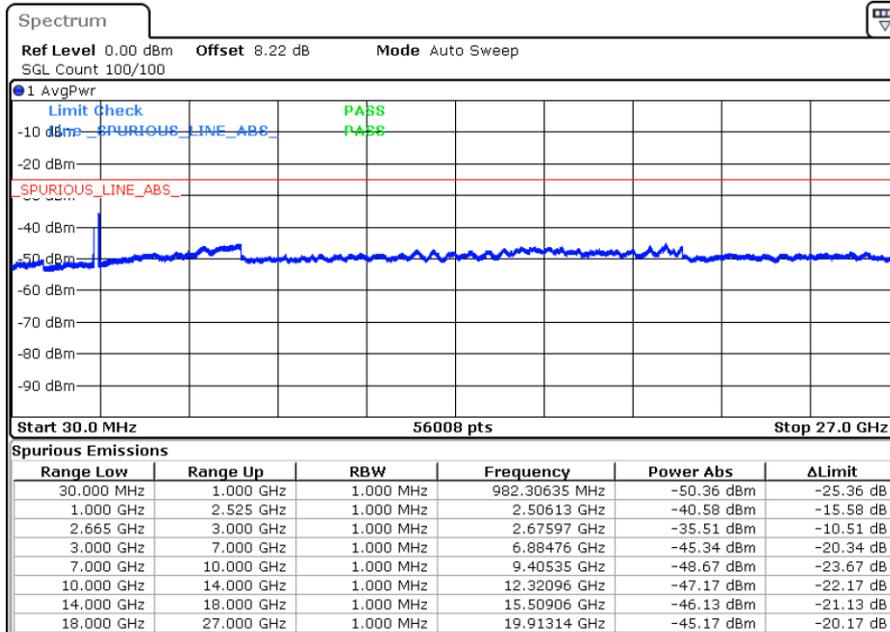
Middle Channel / 1RB74 and 1RB0



Date: 23.MAY.2021 13:09:28

Date: 23.MAY.2021 13:08:38

Highest Channel / 1RB74 and 1RB0



Date: 23.MAY.2021 13:07:16

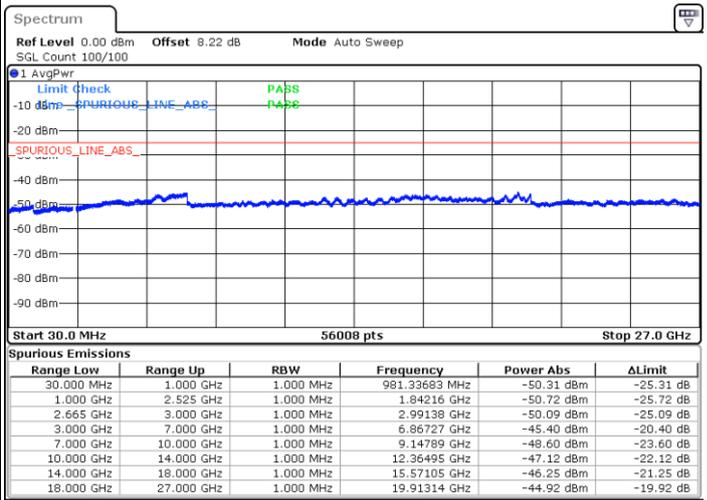
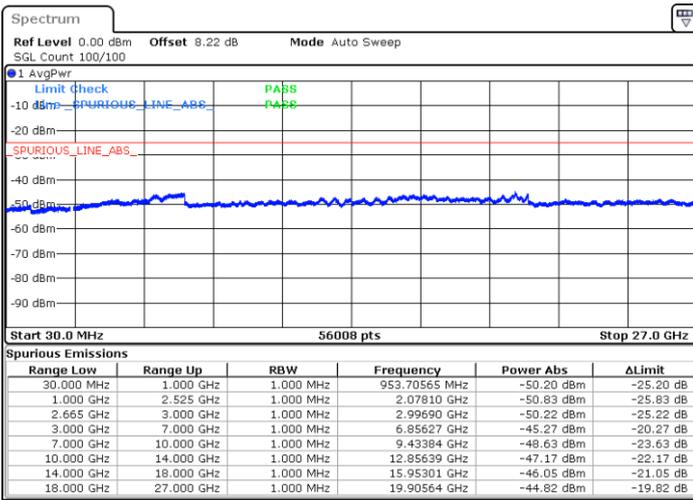


LTE Band 38C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

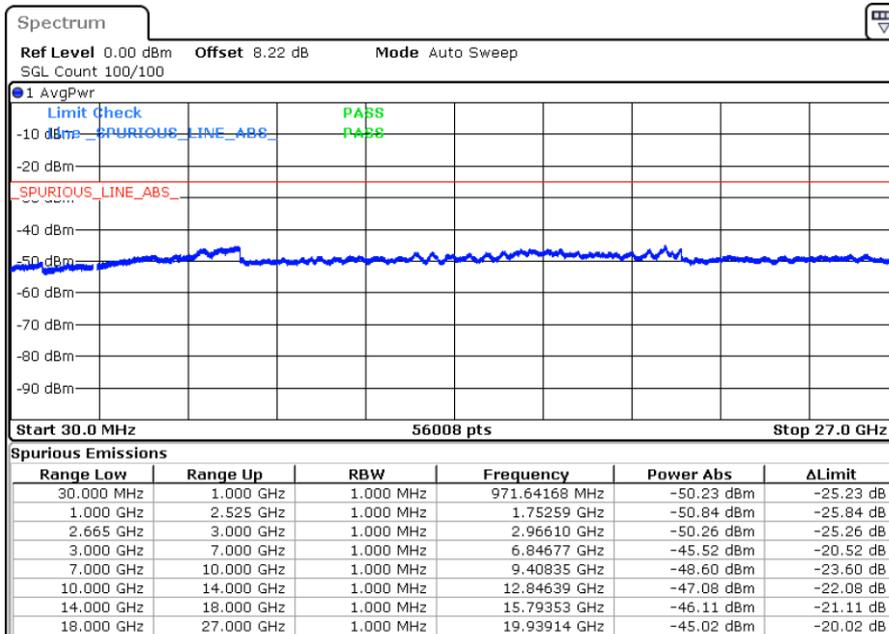
Middle Channel / 1RB99 and 1RB0



Date: 23 MAY 2021 14:10:54

Date: 23 MAY 2021 14:10:04

Highest Channel / 1RB99 and 1RB0



Date: 23 MAY 2021 14:09:14



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	0.07	PASS
40	Normal Voltage	0.12	
30	Normal Voltage	-0.09	
20(Ref.)	Normal Voltage	0.00	
10	Normal Voltage	-0.05	
0	Normal Voltage	-0.31	
-10	Normal Voltage	0.02	
-20	Normal Voltage	0.28	
-30	Normal Voltage	-0.34	
20	Maximum Voltage	0.48	
20	Normal Voltage	0.31	
20	Battery End Point	-0.17	

Note:

1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =6.9 V. ; Maximum Voltage =8.9 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Ant.2

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	-63.25	-25	-38.25	-73.46	3.03	13.24	H
	7580	-62.03	-25	-37.03	-71.48	3.56	13.01	H
	10100	-61.35	-25	-36.35	-70.87	3.92	13.44	H
	5052	-62.98	-25	-37.98	-73.19	3.03	13.24	V
	7580	-62.11	-25	-37.11	-71.56	3.56	13.01	V
	10100	-61.48	-25	-36.48	-71.00	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	5168	-62.50	-25	-37.50	-72.71	3.03	13.24	H
	7752	-60.65	-25	-35.65	-70.10	3.56	13.01	H
	10340	-59.22	-25	-34.22	-68.74	3.92	13.44	H
	5168	-61.60	-25	-36.60	-71.81	3.03	13.24	V
	7752	-61.80	-25	-36.80	-71.25	3.56	13.01	V
	10340	-59.64	-25	-34.64	-69.16	3.92	13.44	V

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



LTE Band 7C / 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	-62.03	-25	-37.03	-72.24	3.03	13.24	H
	7548	-61.01	-25	-36.01	-70.46	3.56	13.01	H
	10060	-59.96	-25	-34.96	-69.48	3.92	13.44	H
	5032	-62.01	-25	-37.01	-72.22	3.03	13.24	V
	7548	-61.20	-25	-36.20	-70.65	3.56	13.01	V
	10060	-60.42	-25	-35.42	-69.94	3.92	13.44	V

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

LTE Band 38C / 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	-62.14	-25	-37.14	-72.35	3.03	13.24	H
	7728	-60.68	-25	-35.68	-70.13	3.56	13.01	H
	10300	-59.84	-25	-34.84	-69.36	3.92	13.44	H
	5152	-61.97	-25	-36.97	-72.18	3.03	13.24	V
	7728	-61.08	-25	-36.08	-70.53	3.56	13.01	V
	10300	-60.39	-25	-35.39	-69.91	3.92	13.44	V

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