

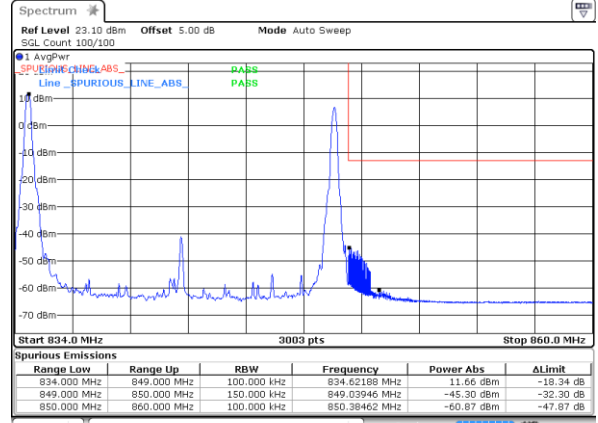
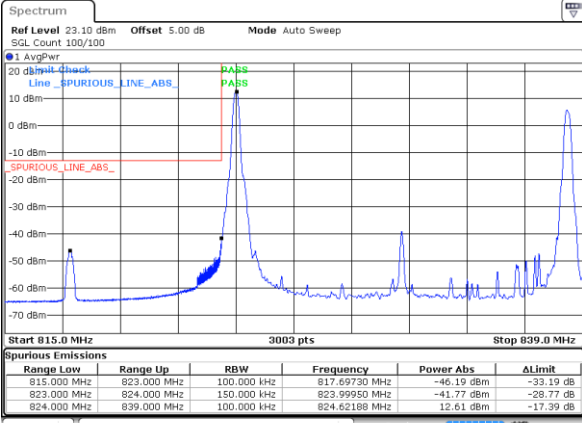


LTE Band 5B / 10MHz+5MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB24

Highest Band Edge / 1RB0 and 1RB24

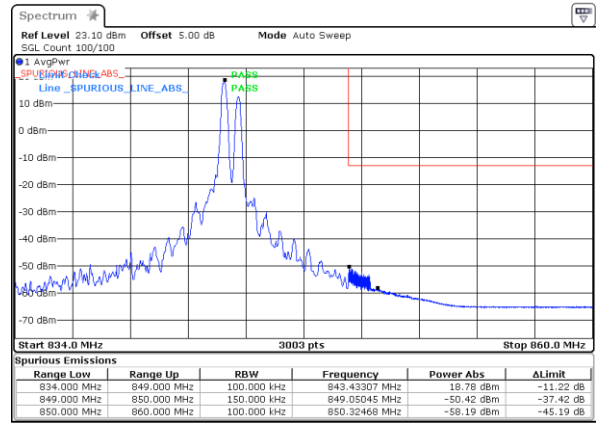
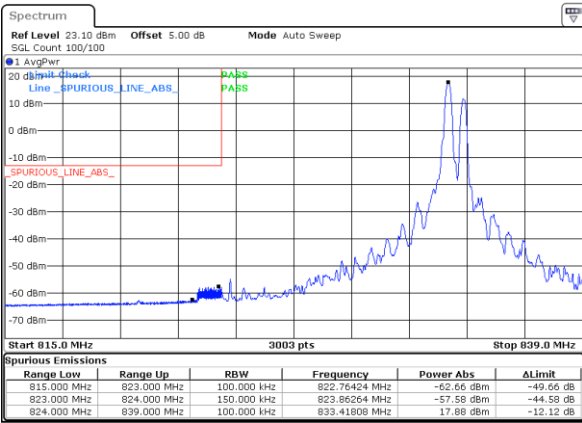


Date: 18 MAR 2021 03:42:57

Date: 18 MAR 2021 03:57:40

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

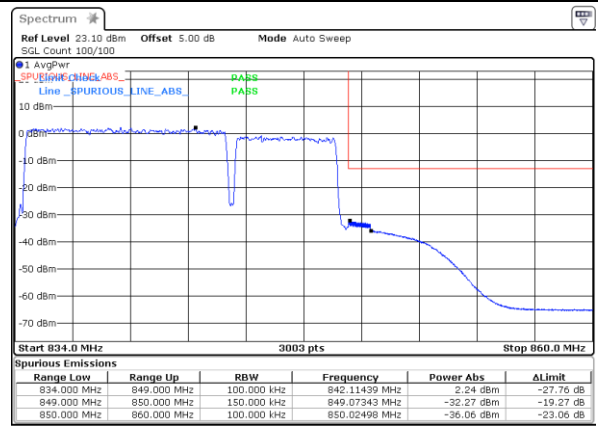
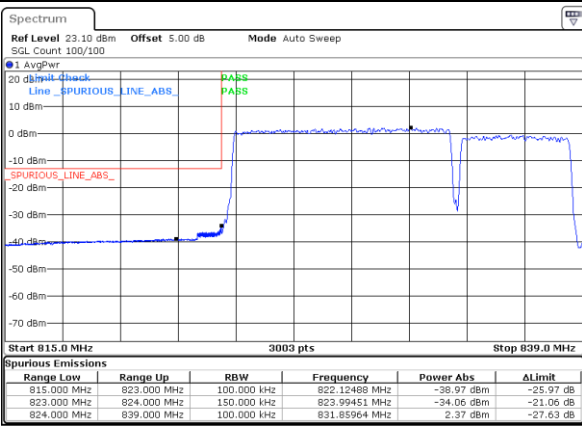


Date: 18 MAR 2021 03:42:10

Date: 18 MAR 2021 03:56:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18 MAR 2021 03:47:23

Date: 18 MAR 2021 03:49:09

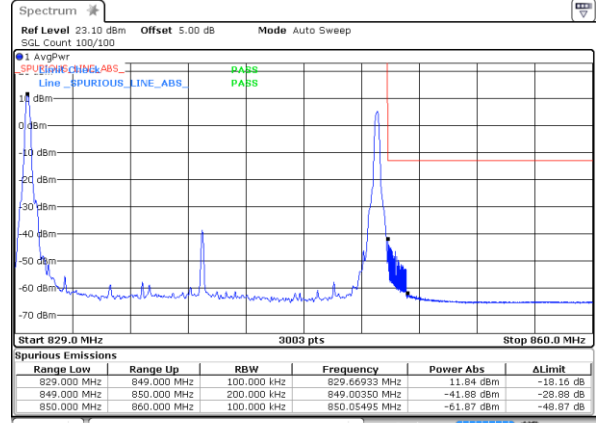
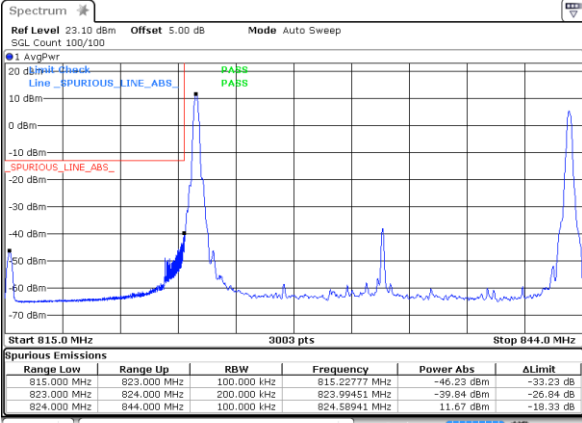


LTE Band 5B / 10MHz+10MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

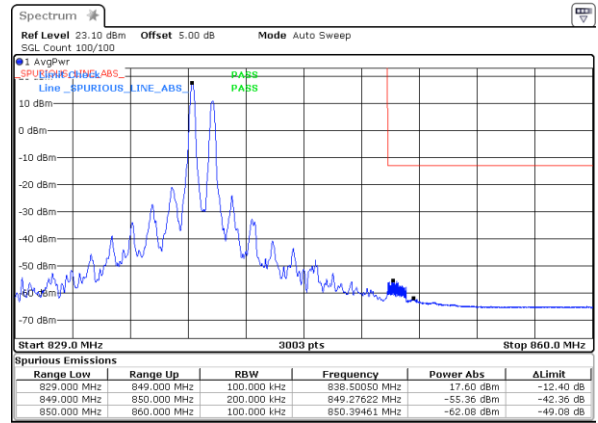
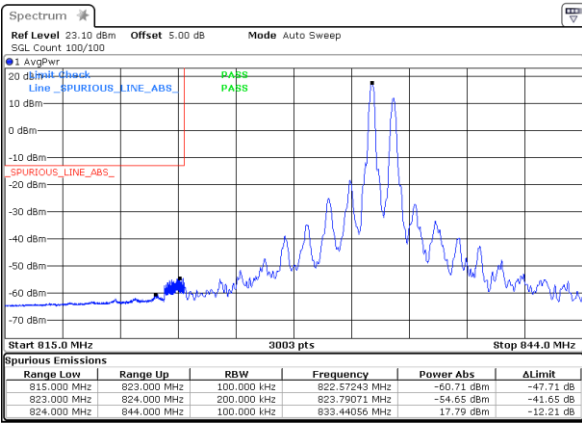


Date: 18 MAR 2021 04:24:06

Date: 18 MAR 2021 04:12:44

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0



Date: 18 MAR 2021 04:20:00

Date: 18 MAR 2021 04:06:01

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18 MAR 2021 04:28:28

Date: 18 MAR 2021 04:04:44



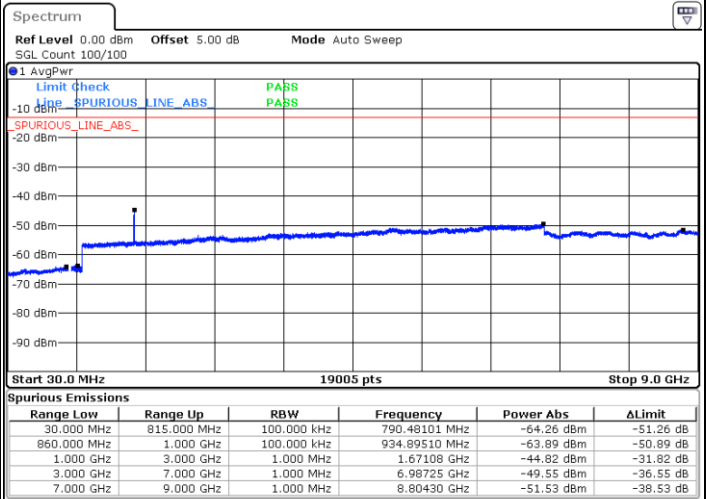
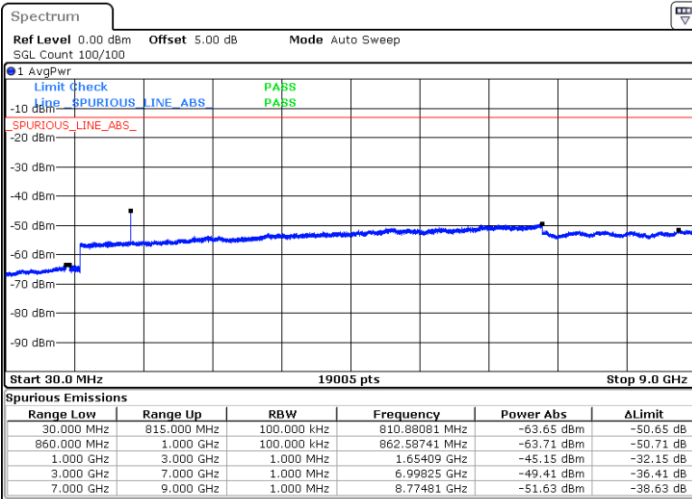
Conducted Spurious Emission

LTE Band 5B / 3MHz+5MHz

QPSK

Lowest Channel / 1RB14 and 1RB0

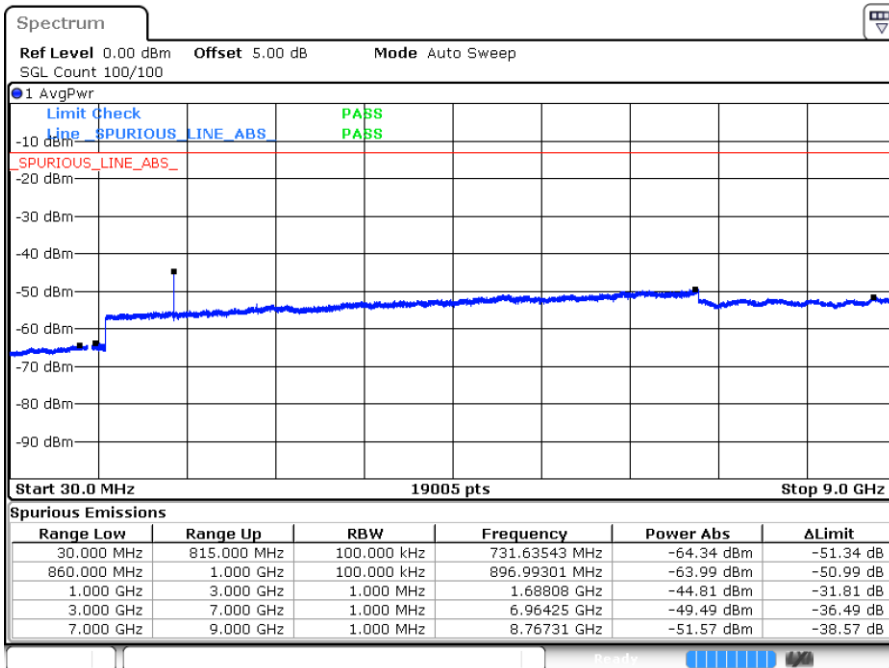
Middle Channel / 1RB14 and 1RB0



Date: 18.MAR.2021 02:51:00

Date: 18.MAR.2021 02:55:12

Highest Channel / 1RB14 and 1RB0



Date: 18.MAR.2021 02:56:35

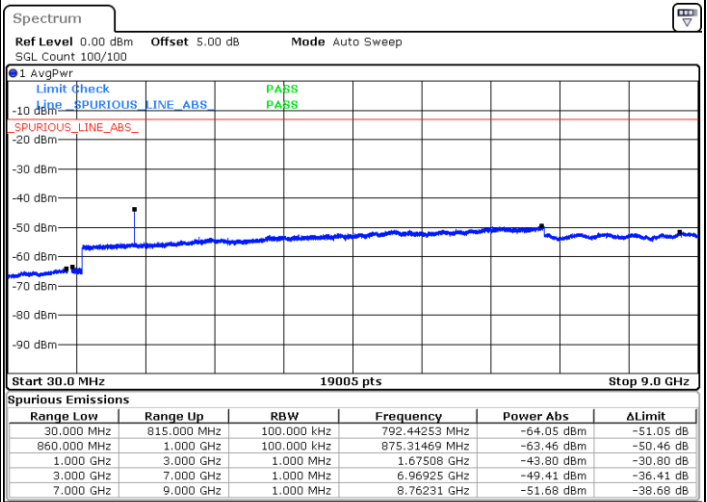
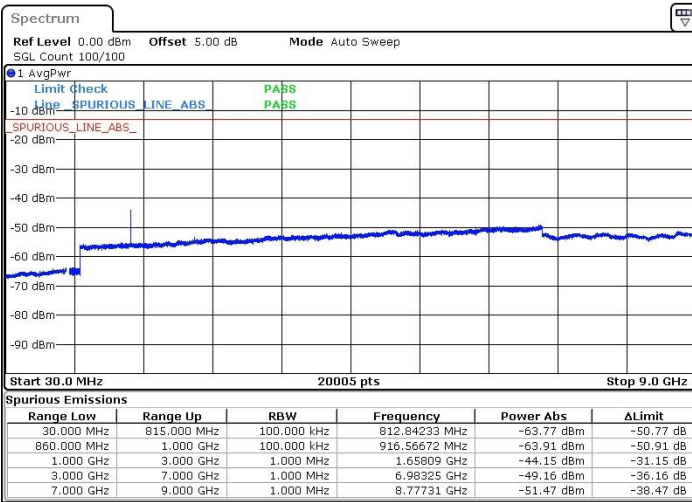


LTE Band 5B / 5MHz+3MHz

QPSK

Lowest Channel / 1RB24 and 1RB0

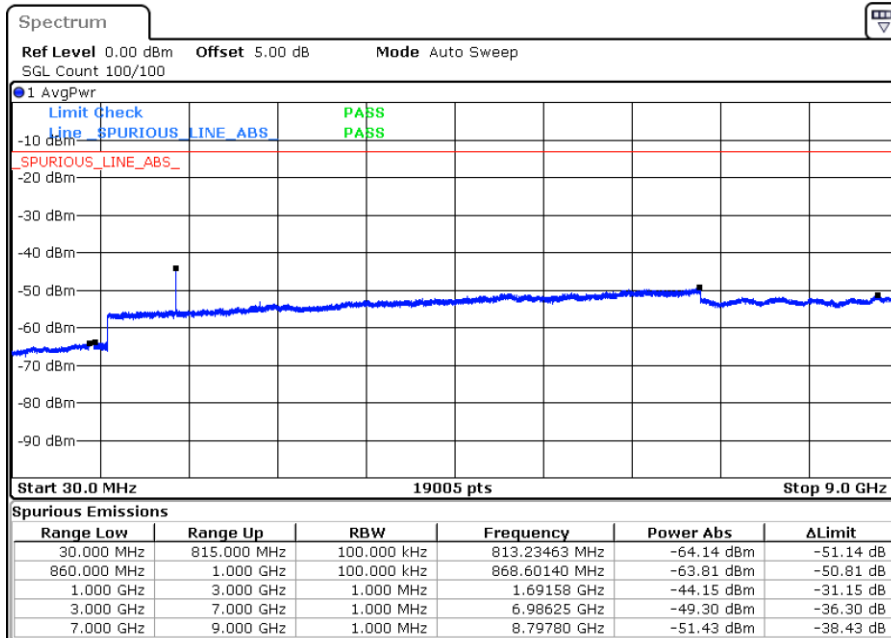
Middle Channel / 1RB24 and 1RB0



Date: 18.MAR.2021 01:52:04

Date: 18.MAR.2021 02:28:56

Highest Channel / 1RB24 and 1RB0



Date: 18.MAR.2021 02:30:41

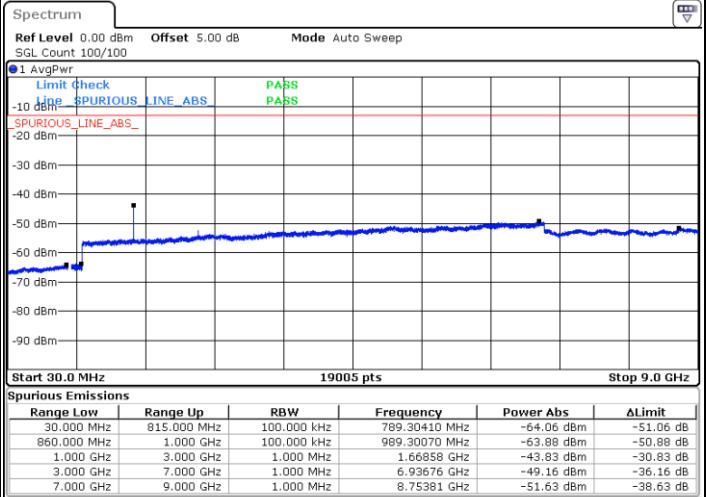
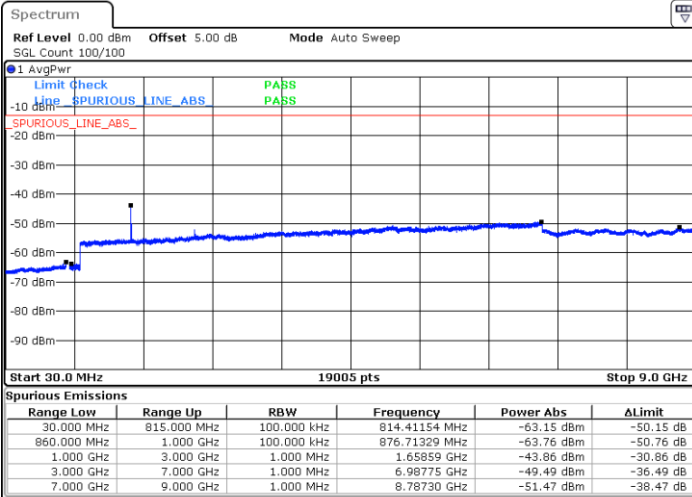


LTE Band 5B / 5MHz+10MHz

QPSK

Lowest Channel / 1RB24 and 1RB0

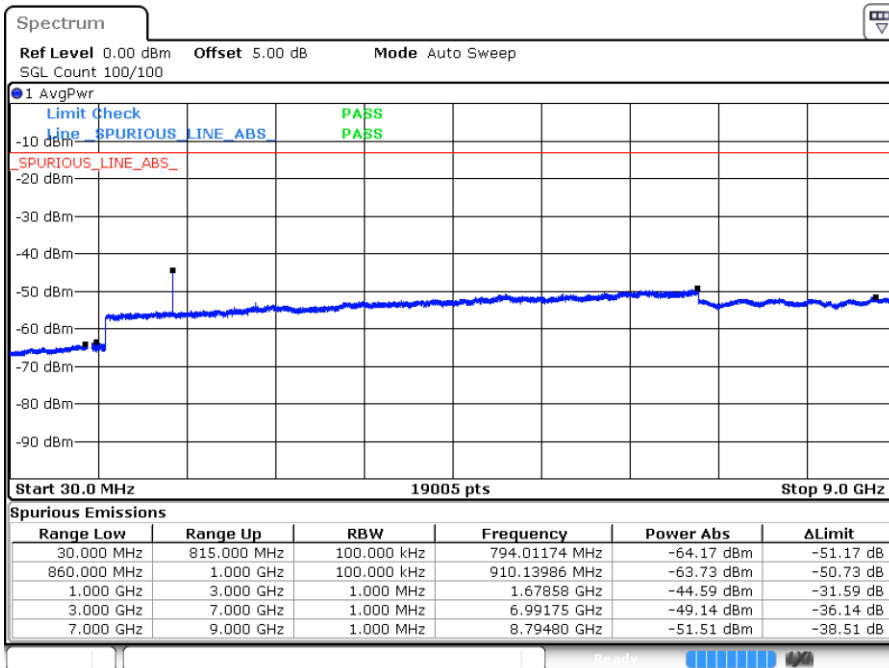
Middle Channel / 1RB24 and 1RB0



Date: 18.MAR.2021 03:26:24

Date: 18.MAR.2021 03:24:39

Highest Channel / 1RB24 and 1RB0



Date: 18.MAR.2021 03:11:46

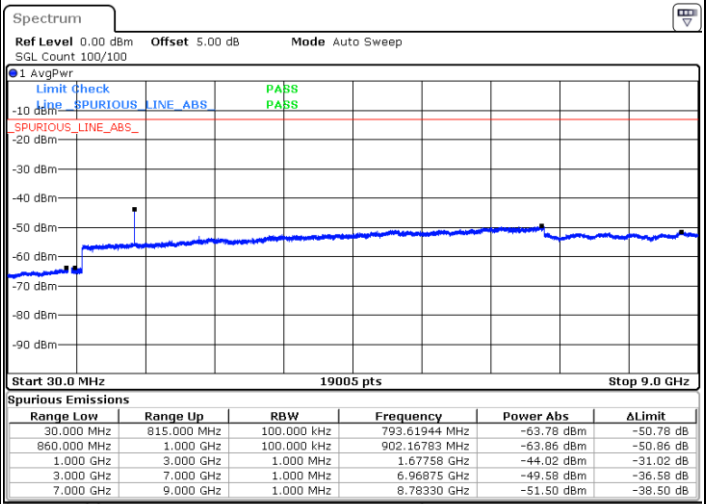
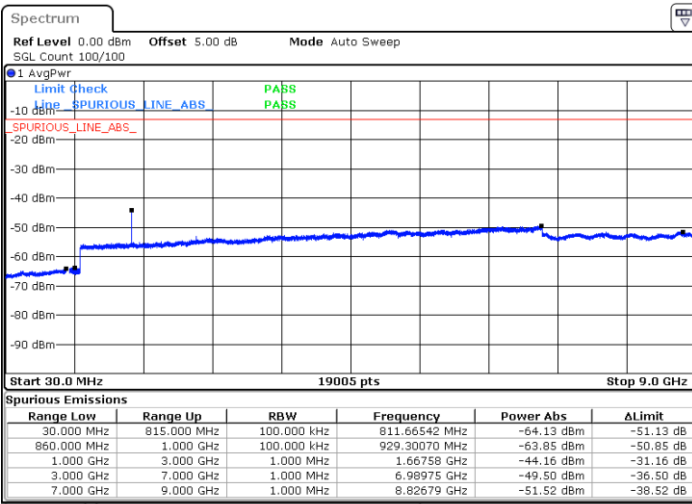


LTE Band 5B / 10MHz+5MHz

QPSK

Lowest Channel / 1RB49 and 1RB0

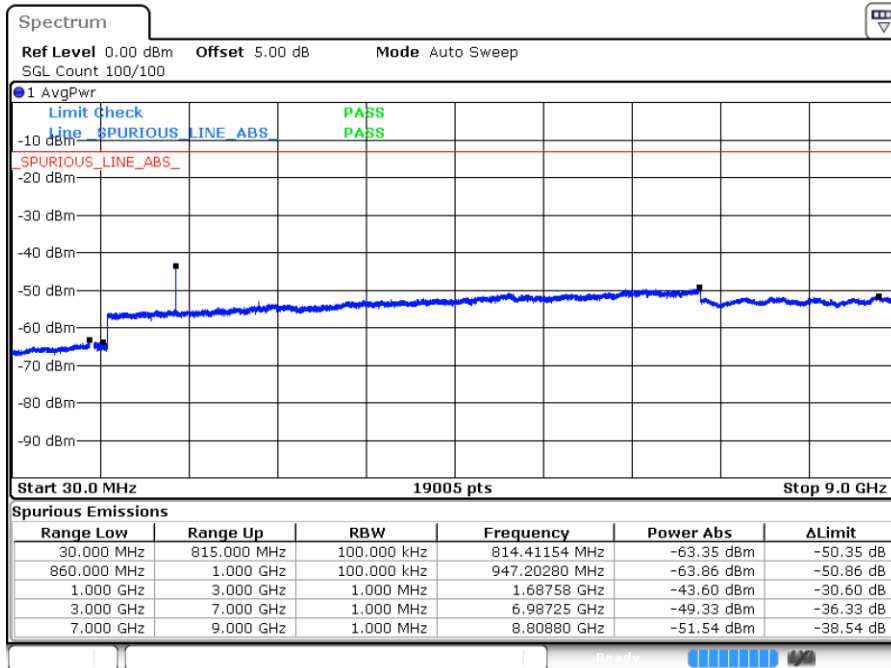
Middle Channel / 1RB49 and 1RB0



Date: 18.MAR.2021 03:39:52

Date: 18.MAR.2021 03:38:02

Highest Channel / 1RB49 and 1RB0



Date: 18.MAR.2021 03:54:17

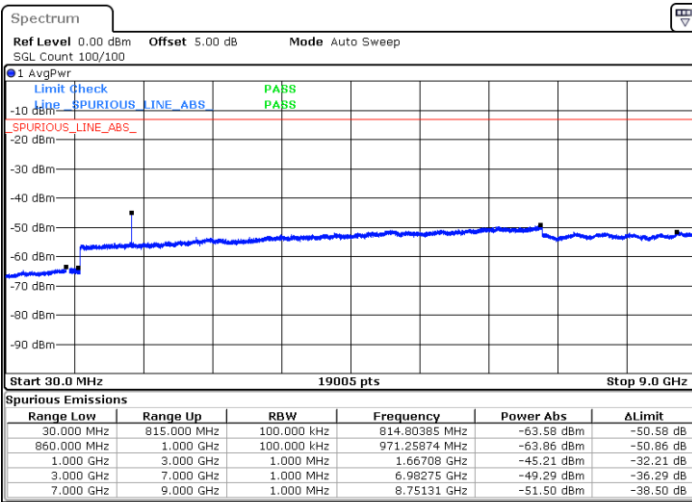


LTE Band 5B / 10MHz+10MHz

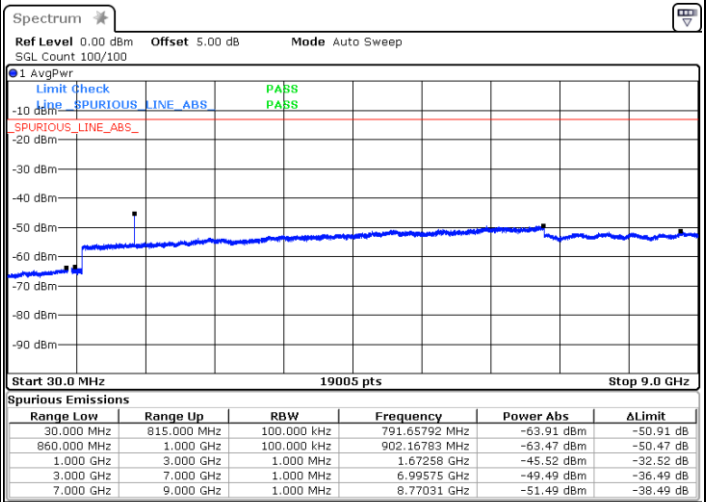
QPSK

Lowest Channel / 1RB49 and 1RB0

Middle Channel / 1RB49 and 1RB0

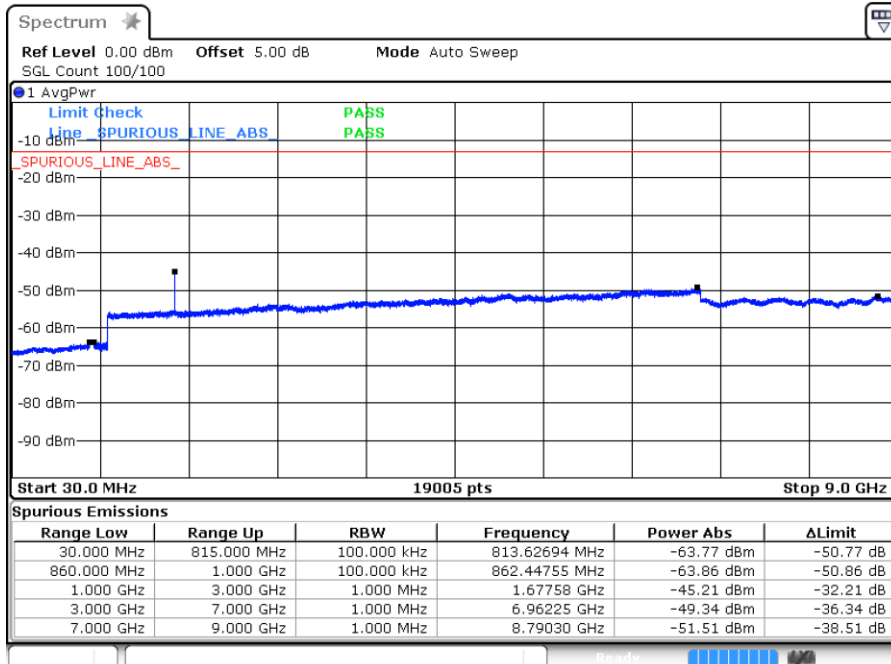


Date: 18.MAR.2021 04:19:37



Date: 18.MAR.2021 04:17:50

Highest Channel / 1RB49 and 1RB0



Date: 18.MAR.2021 04:08:59



Frequency Stability

Test Conditions		LTE Band 5B (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz+10MHZ	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.8V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-65.93	-13	-52.93	-72.90	1.58	10.70	H
	2496	-57.32	-13	-44.32	-65.57	2.102	12.50	H
	3330	-60.84	-13	-47.84	-69.73	2.856	13.90	H
	1664	-65.07	-13	-52.07	-72.04	1.58	10.70	V
	2496	-51.60	-13	-38.60	-59.85	2.10	12.50	V
	3330	-60.75	-13	-47.75	-69.64	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	-42.86	-25	-17.86	-53.07	3.03	13.24	H
	7580	-59.55	-25	-34.55	-69.00	3.56	13.01	H
	10100	-51.94	-25	-26.94	-61.46	3.92	13.44	H
	12630	-55.79	-25	-30.79	-65.71	4.44	14.36	H
	15160	-57.12	-25	-32.12	-67.49	4.77	15.14	H
	17680	-53.99	-25	-28.99	-64.50	4.79	15.30	H
	5052	-51.22	-25	-26.22	-61.43	3.03	13.24	V
	7580	-61.38	-25	-36.38	-70.83	3.56	13.01	V
	10100	-57.29	-25	-32.29	-66.81	3.92	13.44	V
	12630	-57.18	-25	-32.18	-67.10	4.44	14.36	V
	15160	-57.59	-25	-32.59	-67.96	4.77	15.14	V
	17680	-57.10	-25	-32.10	-67.61	4.79	15.30	V

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



LTE Band 12 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-65.74	-13	-52.74	-72.71	1.58	10.70	H
	2110	-54.71	-13	-41.71	-62.96	2.102	12.50	H
	2812	-59.96	-13	-46.96	-68.85	2.856	13.90	H
	1406	-66.21	-13	-53.21	-73.18	1.58	10.70	V
	2110	-57.61	-13	-44.61	-65.86	2.10	12.50	V
	2812	-59.81	-13	-46.81	-68.70	2.86	13.90	V

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

LTE Band 13 / 5MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1560	-66.66	-42.15	-24.51	-69.29	1.09	5.87	H
	2340	-62.50	-13	-49.50	-64.90	1.37	5.92	H
	3120	-60.24	-13	-47.24	-64.13	1.64	7.68	H
	1560	-65.74	-42.15	-23.59	-68.37	1.09	5.87	V
	2340	-60.59	-13	-47.59	-62.99	1.37	5.92	V
	3120	-60.31	-13	-47.31	-64.20	1.64	7.68	V

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

LTE Band 13 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1556	-64.15	-13	-51.15	-66.78	1.09	5.87	H
	2332	-61.38	-13	-48.38	-63.78	1.37	5.92	H
	3108	-60.27	-13	-47.27	-64.16	1.64	7.68	H
	1556	-62.71	-13	-49.71	-65.34	1.09	5.87	V
	2332	-59.43	-13	-46.43	-61.83	1.37	5.92	V
	3108	-59.91	-13	-46.91	-63.80	1.64	7.68	V

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



LTE Band 5B_CA / 10MHz + 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654	-65.67	-13	-52.67	-72.64	1.58	10.70	H
	2482	-61.06	-13	-48.06	-69.31	2.102	12.50	H
	3306	-60.27	-13	-47.27	-69.16	2.856	13.90	H
	1654	-64.72	-13	-51.72	-71.69	1.58	10.70	V
	2482	-59.04	-13	-46.04	-67.29	2.10	12.50	V
	3306	-60.59	-13	-47.59	-69.48	2.86	13.90	V

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