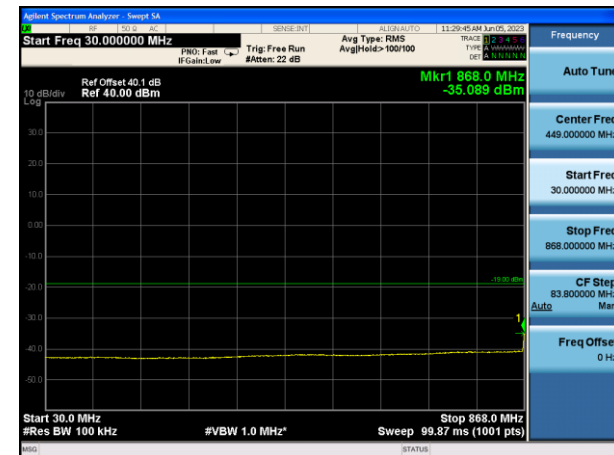
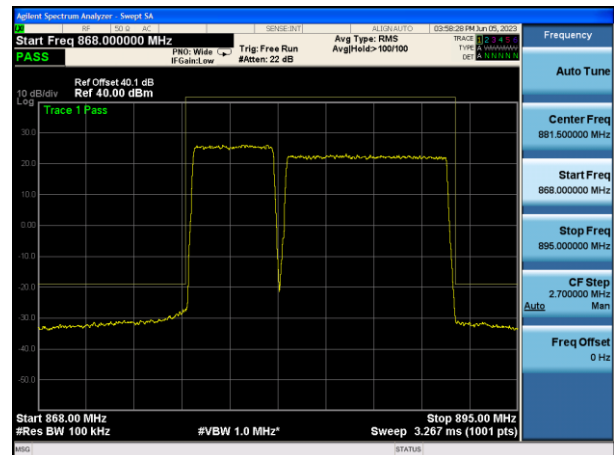


Spurious emissions at antenna terminals

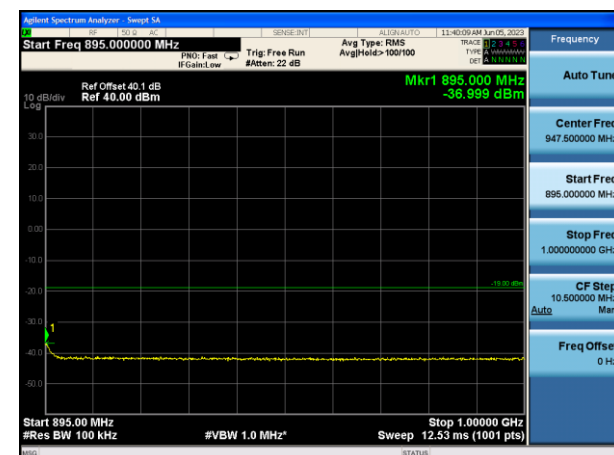
2 LTE_5+10MHz_QPSK_M (TC18)



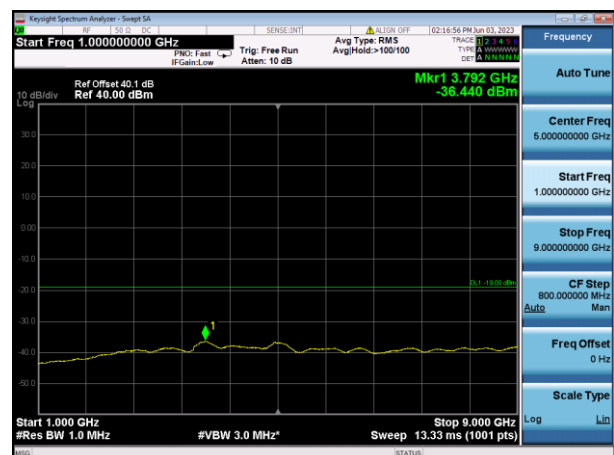
2 LTE_5+10MHz_QPSK_M (TC18)



2 LTE_5+10MHz_QPSK_M (TC18)



2 LTE_5+10MHz_QPSK_M (TC18)

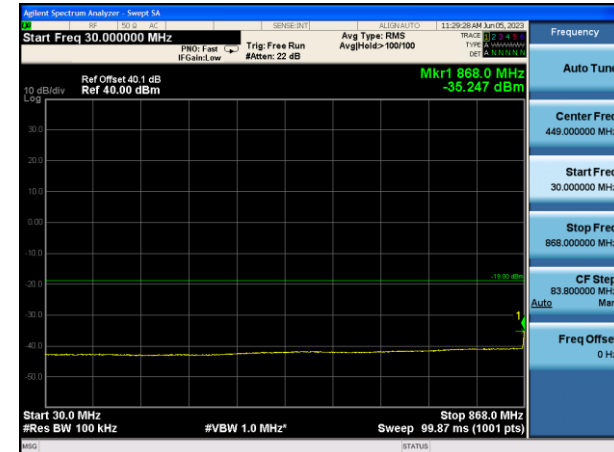


Remark:

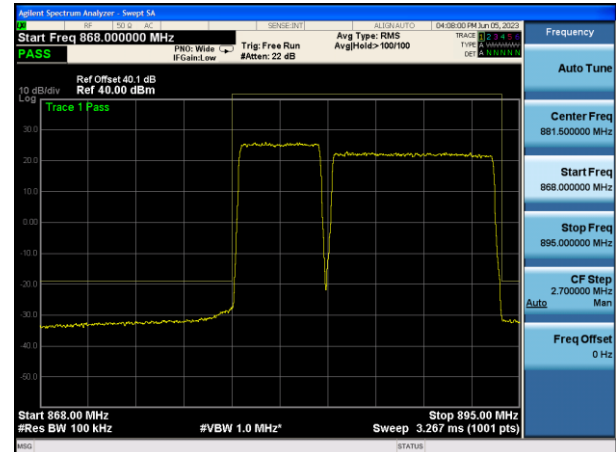
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

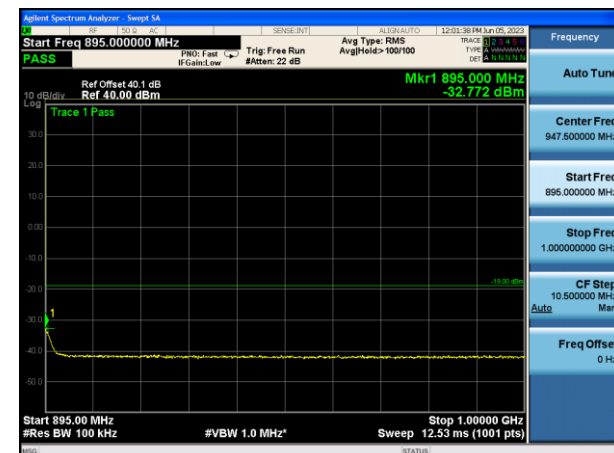
2 LTE_5+10MHz_QPSK_T (TC18)



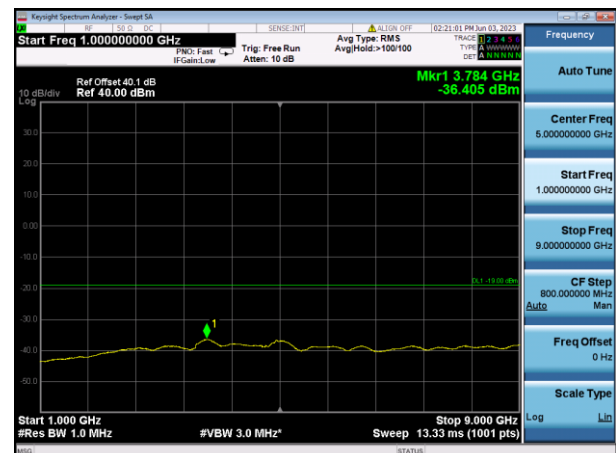
2 LTE_5+10MHz_QPSK_T (TC18)



2 LTE_5+10MHz_QPSK_T (TC18)



2 LTE_5+10MHz_QPSK_T (TC18)

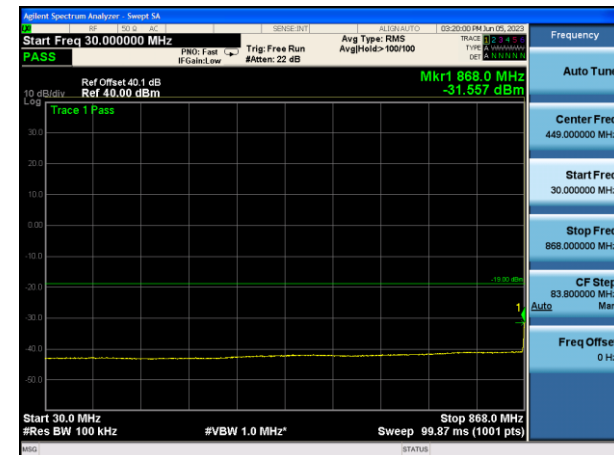


Remark:

1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

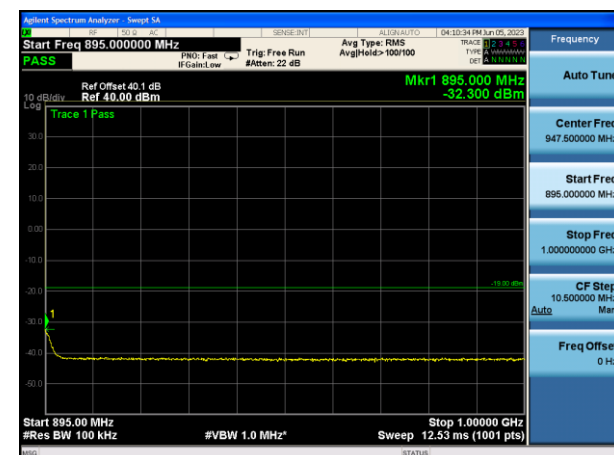
2 LTE_5+10MHz_QPSK (TC21)



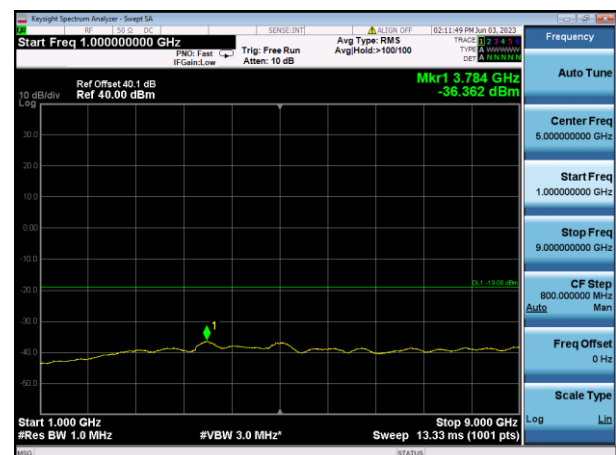
2 LTE_5+10MHz_QPSK (TC21)



2 LTE_5+10MHz_QPSK (TC21)



2 LTE_5+10MHz_QPSK (TC21)

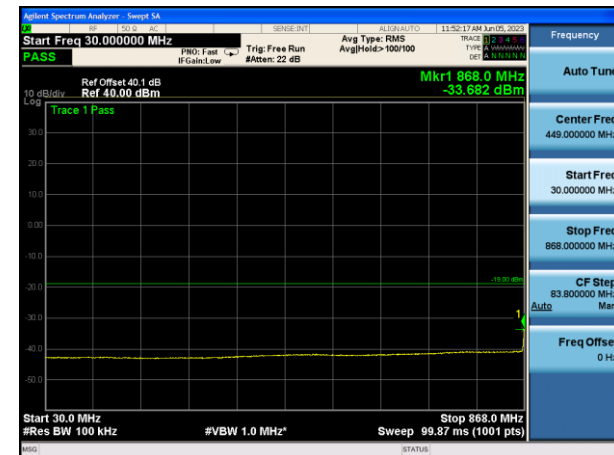


Remark:

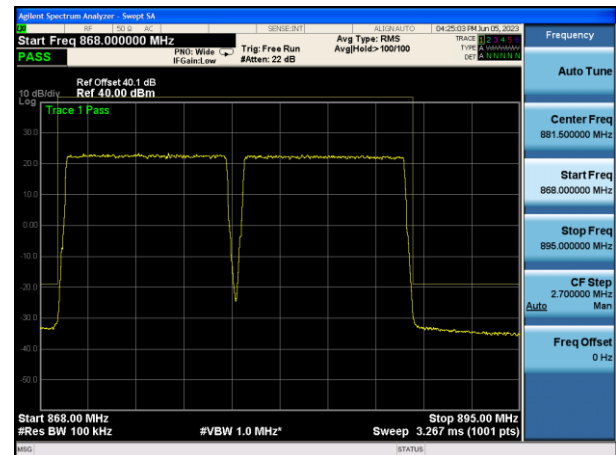
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

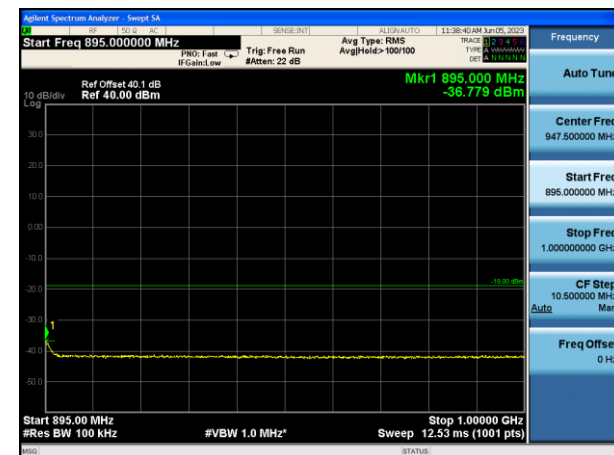
2 LTE_10+10MHz_QPSK_B (TC24)



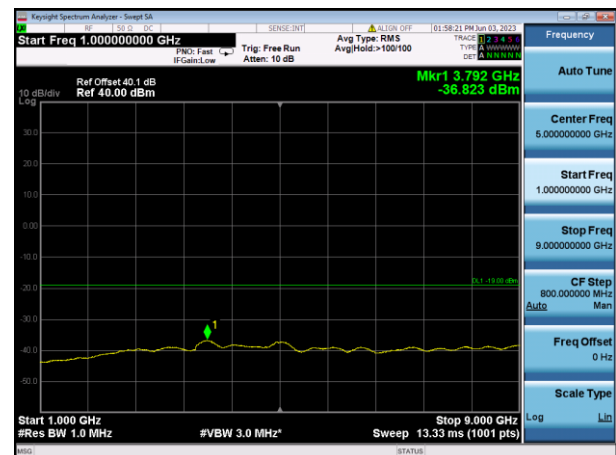
2 LTE_10+10MHz_QPSK_B (TC24)



2 LTE_10+10MHz_QPSK_B (TC24)



2 LTE_10+10MHz_QPSK_B (TC24)

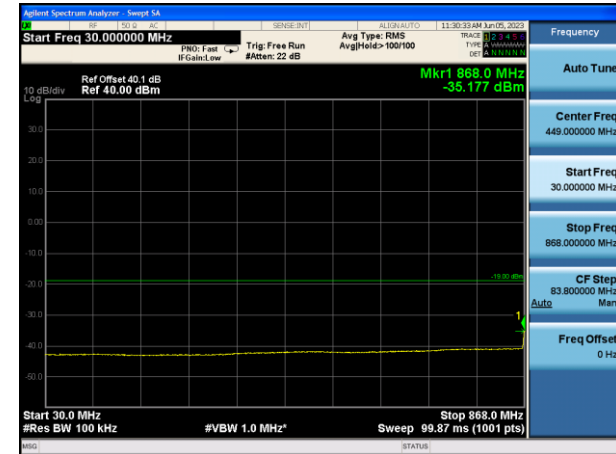


Remark:

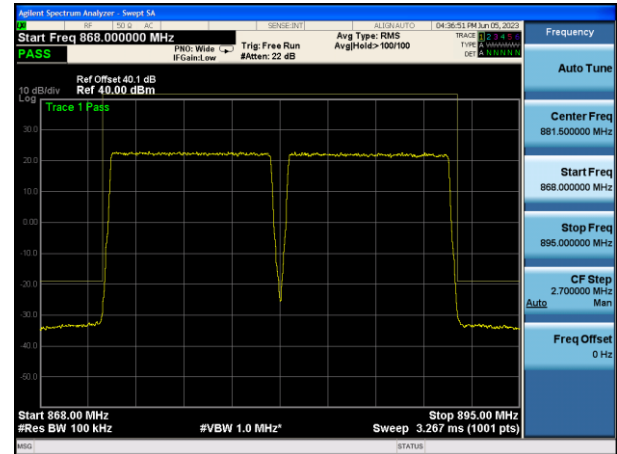
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

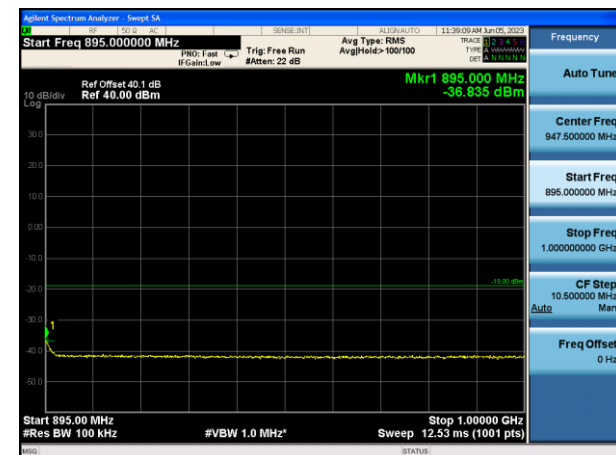
2 LTE_10+10MHz_QPSK_M (TC24)



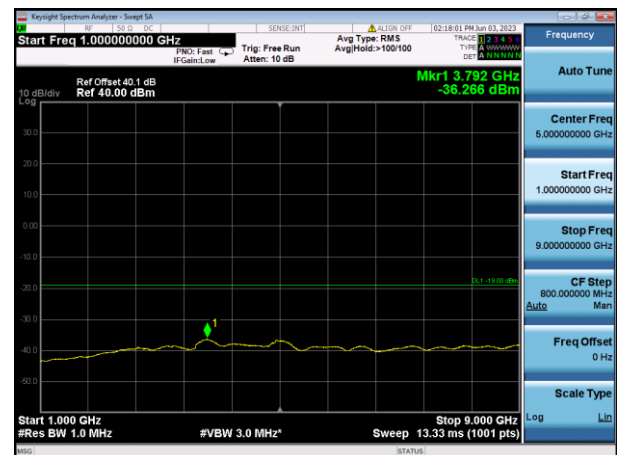
2 LTE_10+10MHz_QPSK_M (TC24)



2 LTE_10+10MHz_QPSK_M (TC24)



2 LTE_10+10MHz_QPSK_M (TC24)

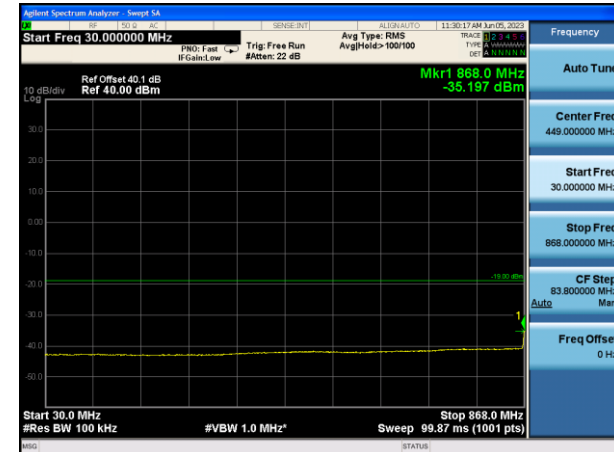


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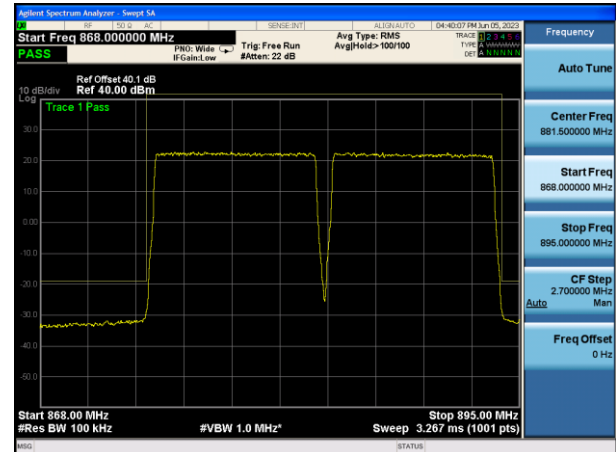
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed -13dBm- $10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

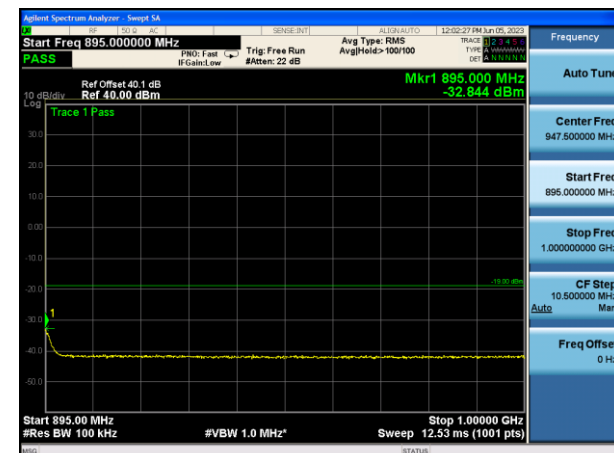
2 LTE_10+10MHz_QPSK_T (TC24)



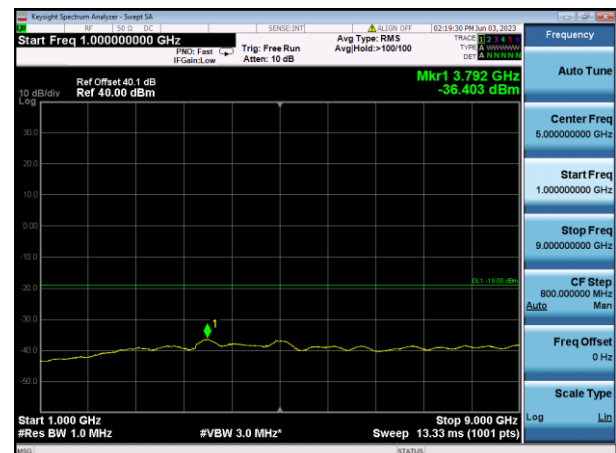
2 LTE_10+10MHz_QPSK_T (TC24)



2 LTE_10+10MHz_QPSK_T (TC24)



2 LTE_10+10MHz_QPSK_T (TC24)

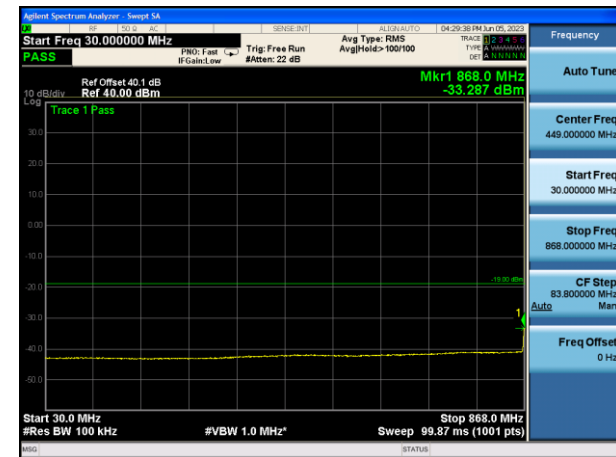


Remark:

1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, $P = 46\text{dBm} = 39.8\text{W}$
Limit = $46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

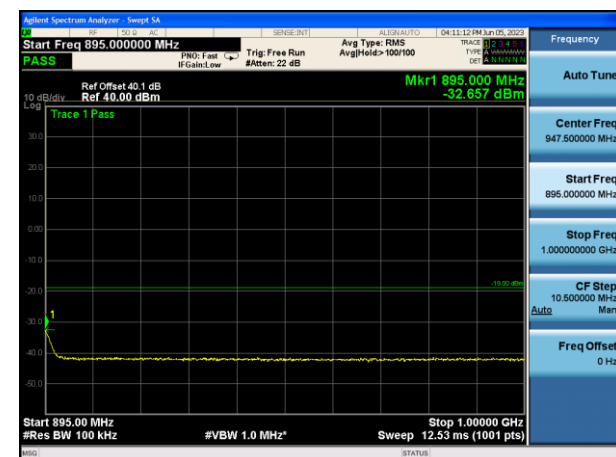
2 LTE_10+10MHz_QPSK (TC27)



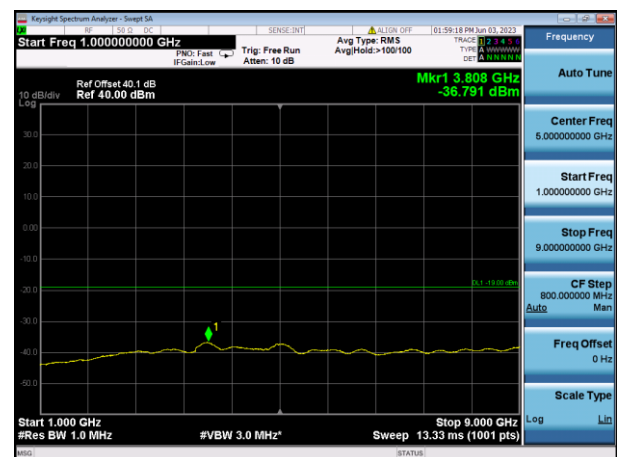
2 LTE_10+10MHz_QPSK (TC27)



2 LTE_10+10MHz_QPSK (TC27)



2 LTE_10+10MHz_QPSK (TC27)

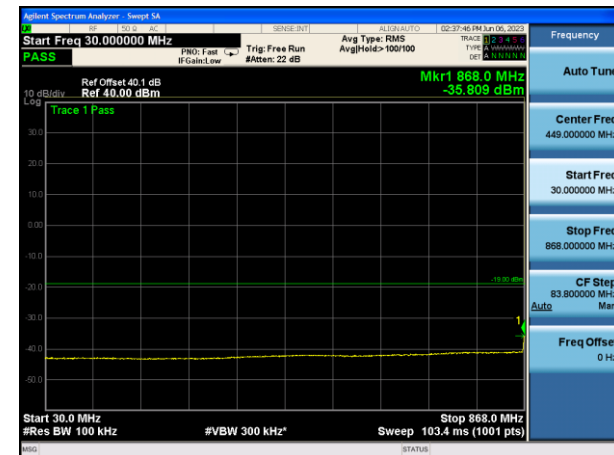


Remark:

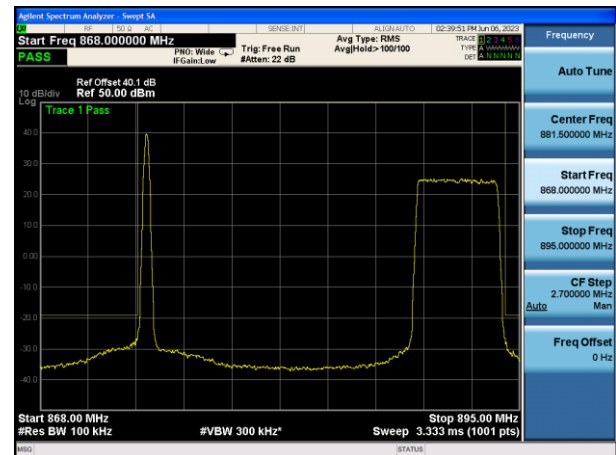
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

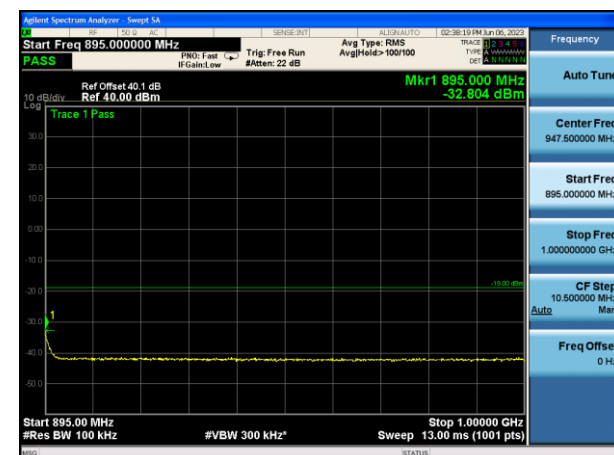
1 GSM+ 1 LTE_5MHz_GMSK+QPSK (TC30)



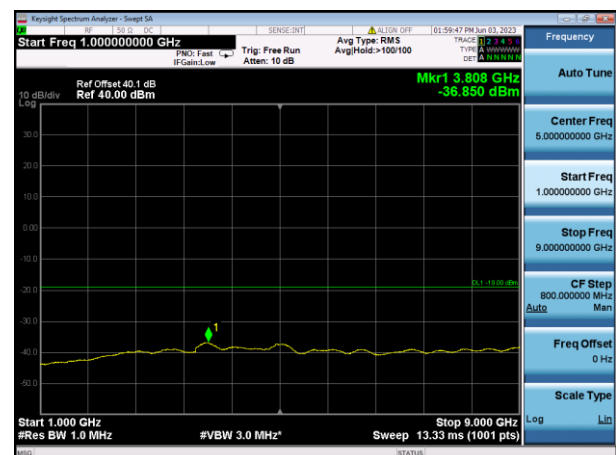
1 GSM+ 1 LTE_5MHz_GMSK+QPSK (TC30)



1 GSM+ 1 LTE_5MHz_GMSK+QPSK (TC30)



1 GSM+ 1 LTE_5MHz_GMSK+QPSK (TC30)

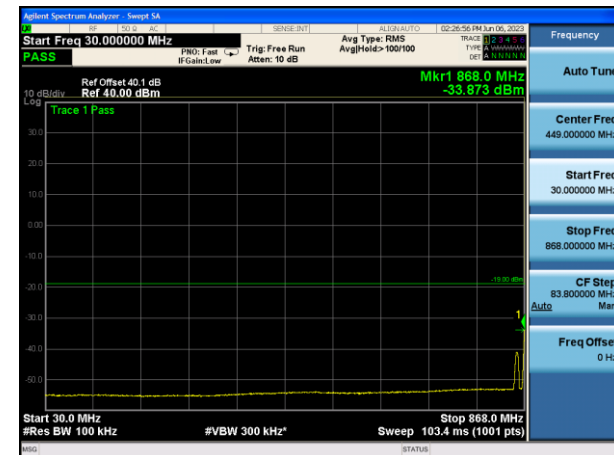


Remark:

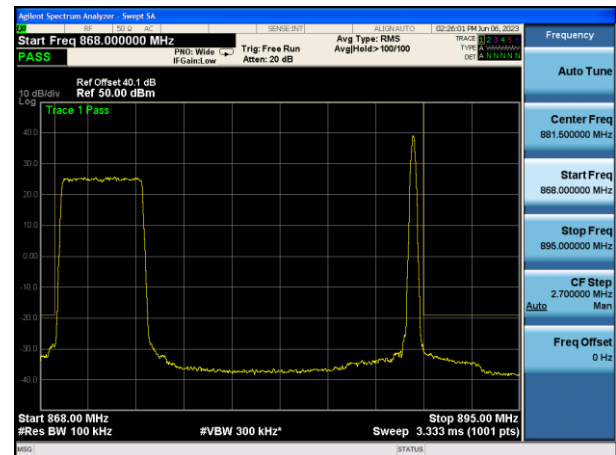
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

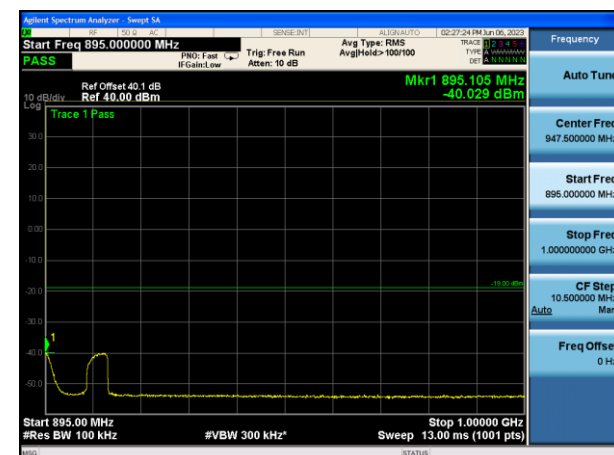
1 GSM+ 1 LTE_5MHz_QPSK+ GMSK (TC36)



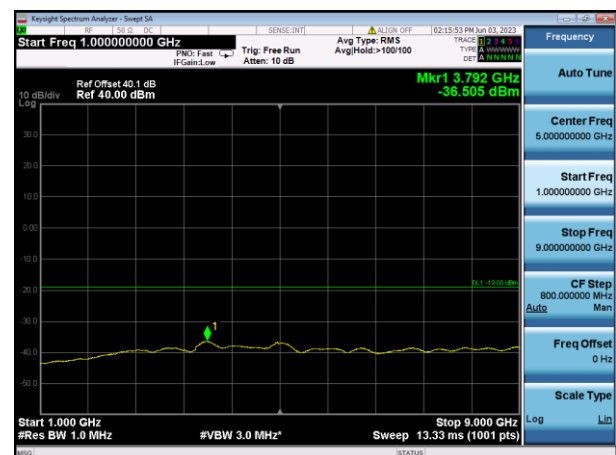
1 GSM+ 1 LTE_5MHz_QPSK+ GMSK (TC36)



1 GSM+ 1 LTE_5MHz_QPSK+ GMSK (TC36)



1 GSM+ 1 LTE_5MHz_QPSK+ GMSK (TC36)

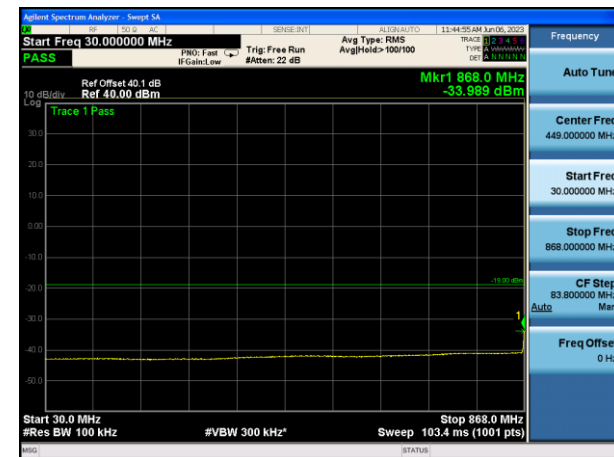


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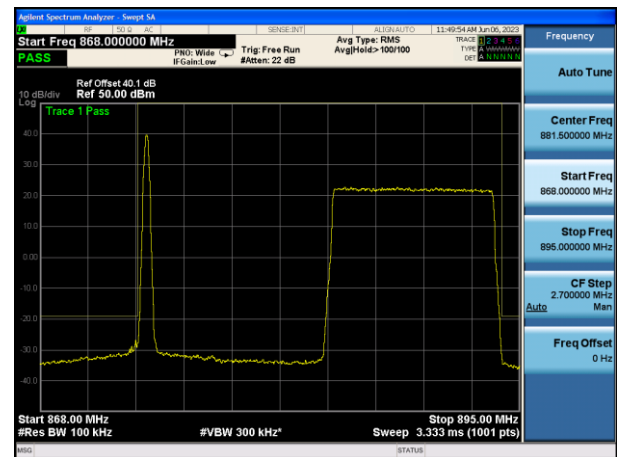
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
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4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

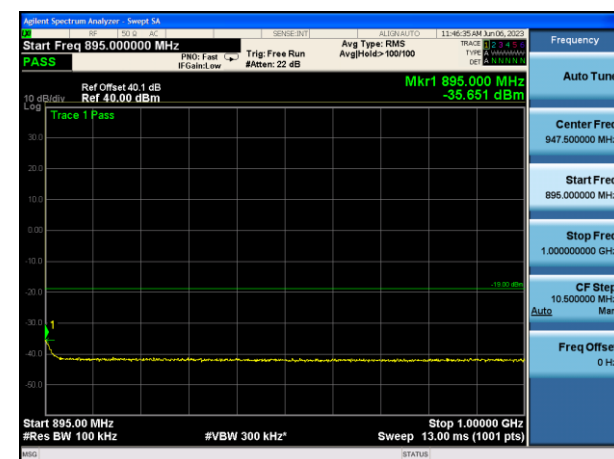
1 GSM+ 1 LTE_10MHz_GMSK+QPSK (TC42)



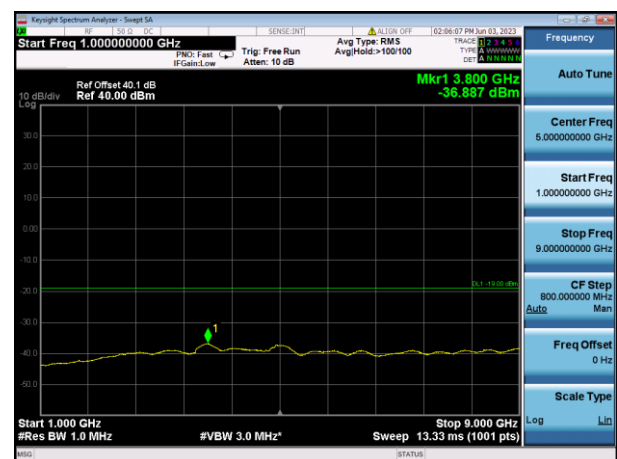
1 GSM+ 1 LTE_10MHz_GMSK+QPSK (TC42)



1 GSM+ 1 LTE_10MHz_GMSK+QPSK (TC42)



1 GSM+ 1 LTE_10MHz_GMSK+QPSK (TC42)

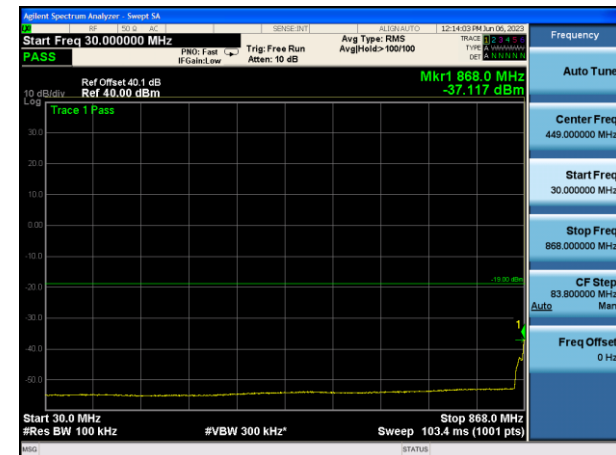


Remark:

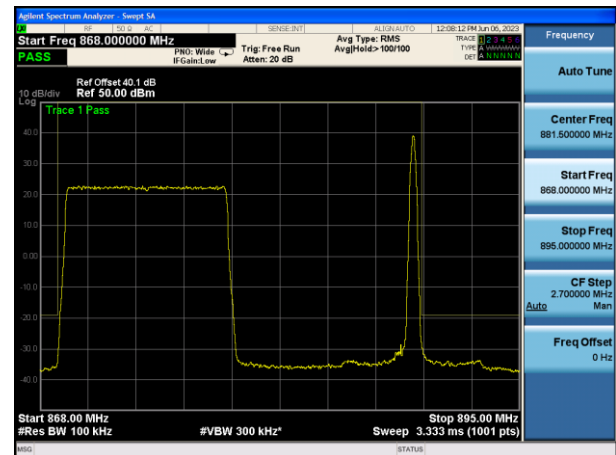
- The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{ dB} = -13\text{dBm}$
- For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
- The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
- All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

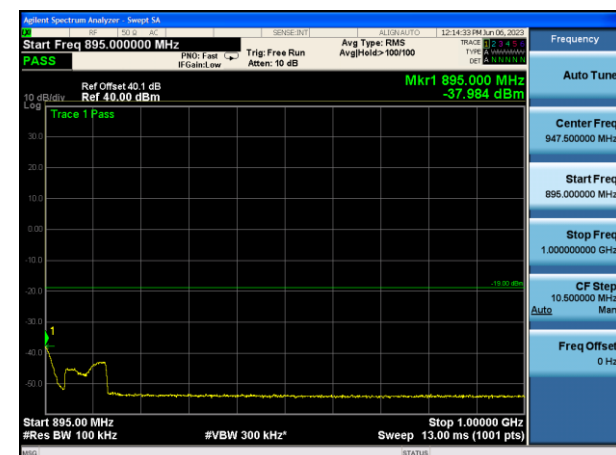
1 GSM+ 1 LTE 10MHz_QPSK+ GMSK (TC48)



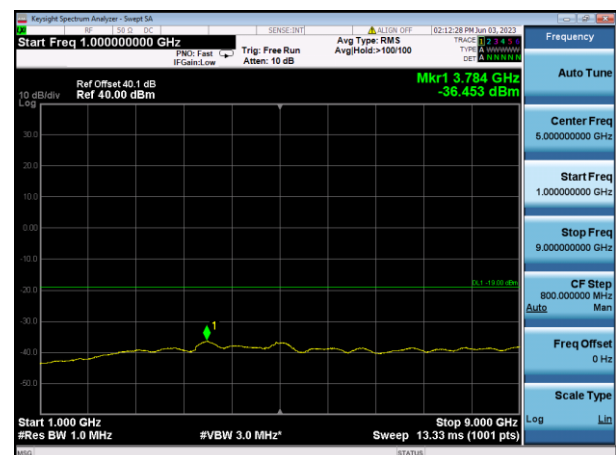
1 GSM+ 1 LTE 10MHz_QPSK+ GMSK (TC48)



1 GSM+ 1 LTE 10MHz_QPSK+ GMSK (TC48)



1 GSM+ 1 LTE 10MHz_QPSK+ GMSK (TC48)

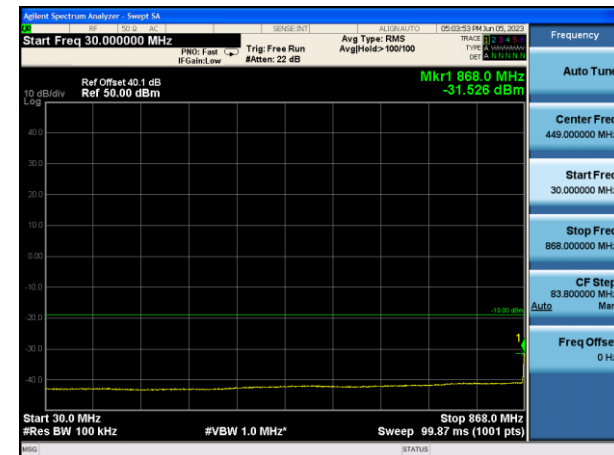


Remark:

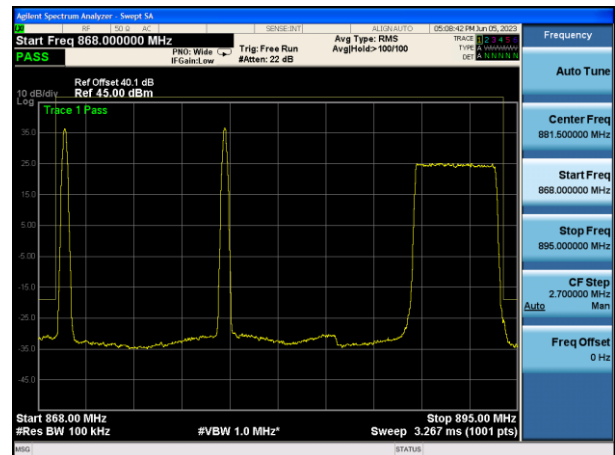
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

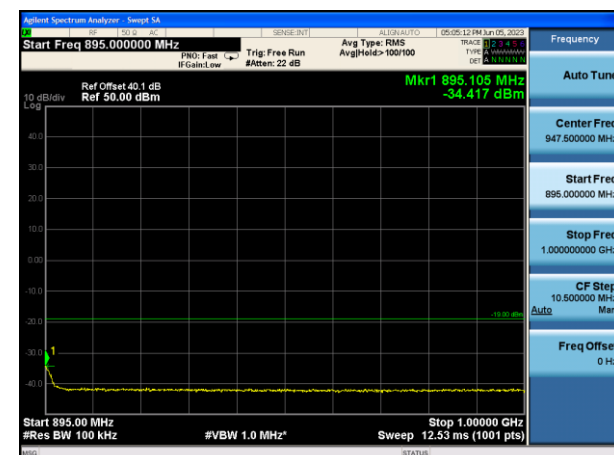
2 GSM+ 1 LTE_5MHz_GMSK+QPSK (TC54)



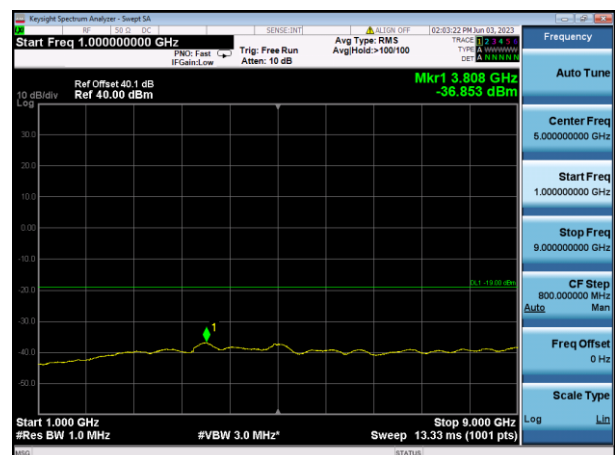
2 GSM+ 1 LTE_5MHz_GMSK+QPSK (TC54)



2 GSM+ 1 LTE_5MHz_GMSK+QPSK (TC54)



2 GSM+ 1 LTE_5MHz_GMSK+QPSK (TC54)

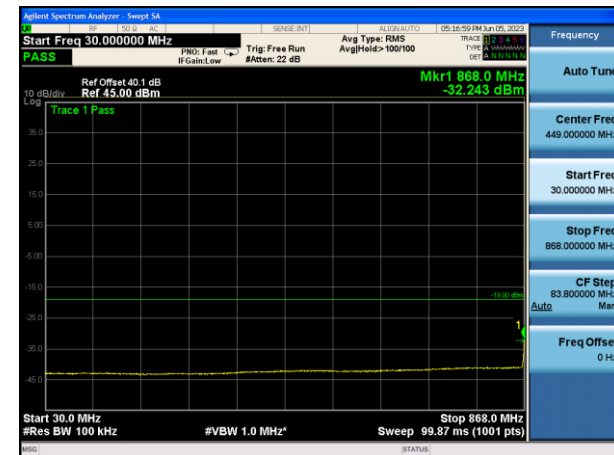


Remark:

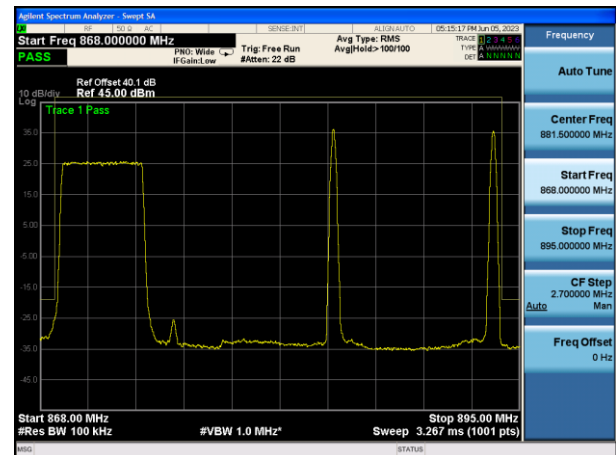
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

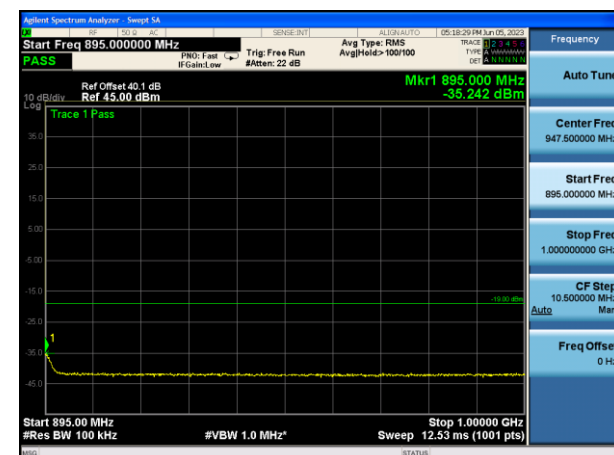
2 GSM+ 1 LTE_5MHz_QPSK+ GMSK (TC60)



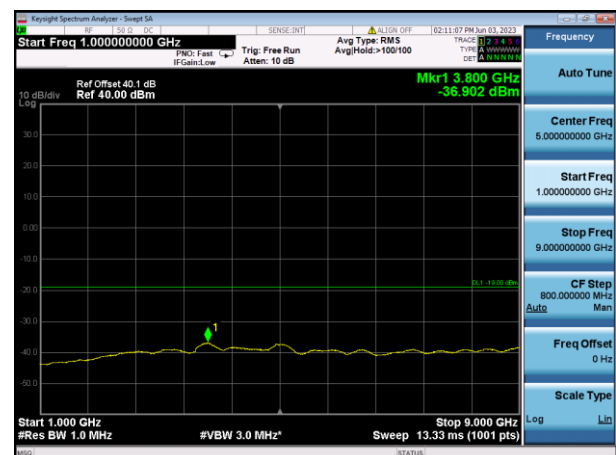
2 GSM+ 1 LTE_5MHz_QPSK+ GMSK (TC60)



2 GSM+ 1 LTE_5MHz_QPSK+ GMSK (TC60)



2 GSM+ 1 LTE_5MHz_QPSK+ GMSK (TC60)

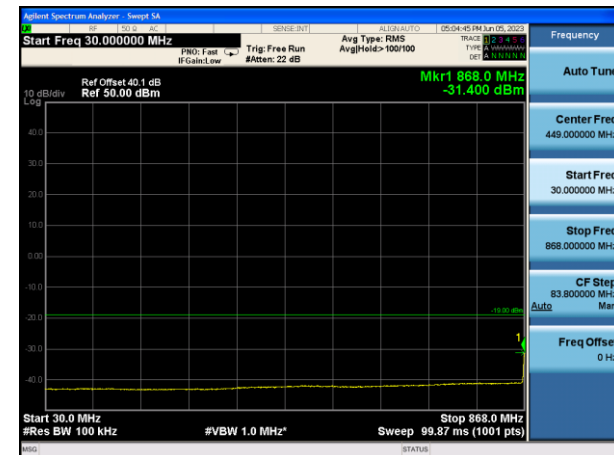


Remark:

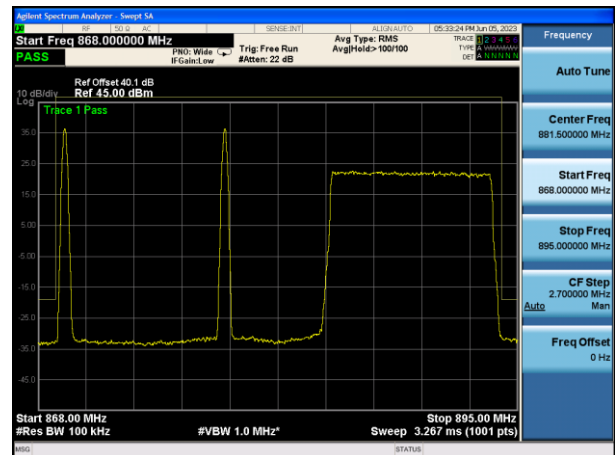
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

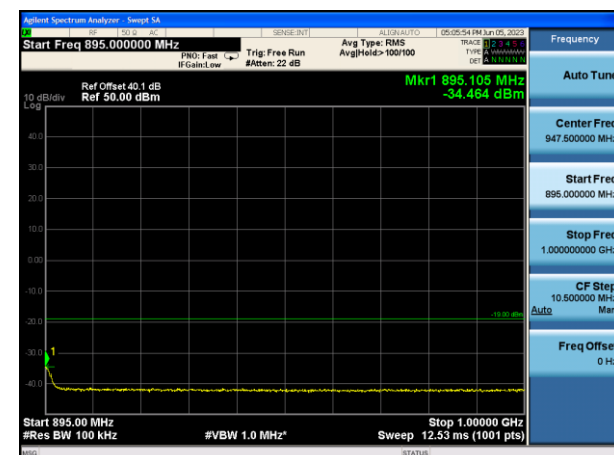
2 GSM+ 1 LTE_10MHz_GMSK+QPSK (TC66)



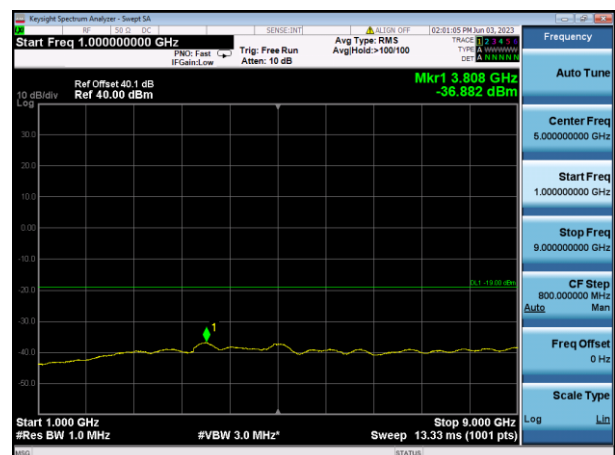
2 GSM+ 1 LTE_10MHz_GMSK+QPSK (TC66)



2 GSM+ 1 LTE_10MHz_GMSK+QPSK (TC66)



2 GSM+ 1 LTE_10MHz_GMSK+QPSK (TC66)

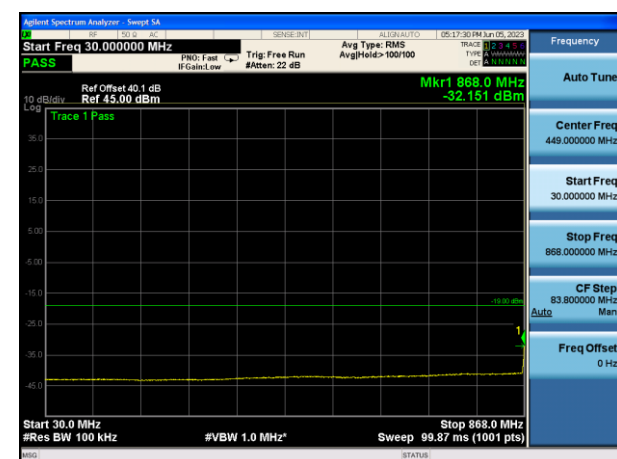


Remark:

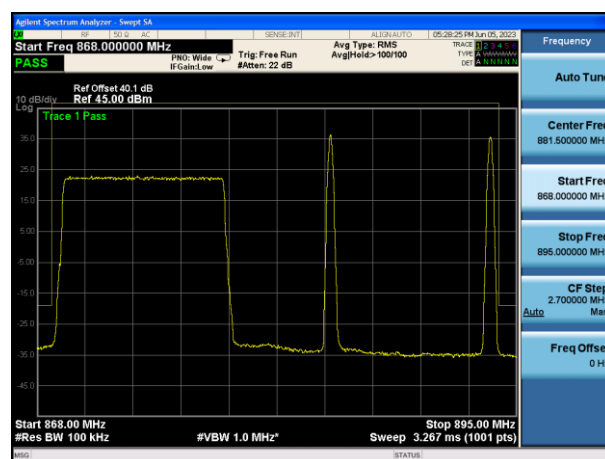
1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.

Spurious emissions at antenna terminals

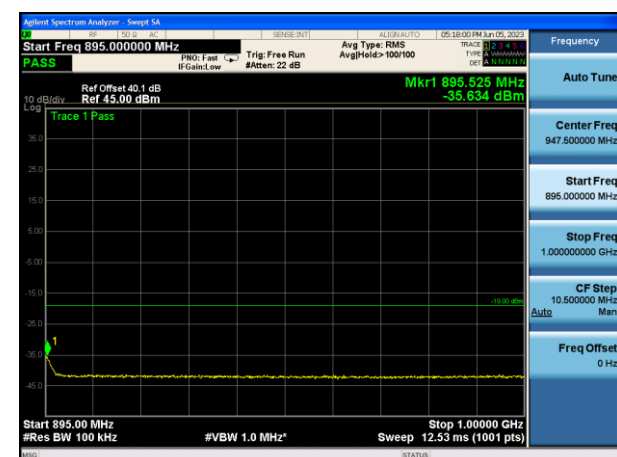
2 GSM+ 1 LTE_10MHz_QPSK+ GMSK (TC72)



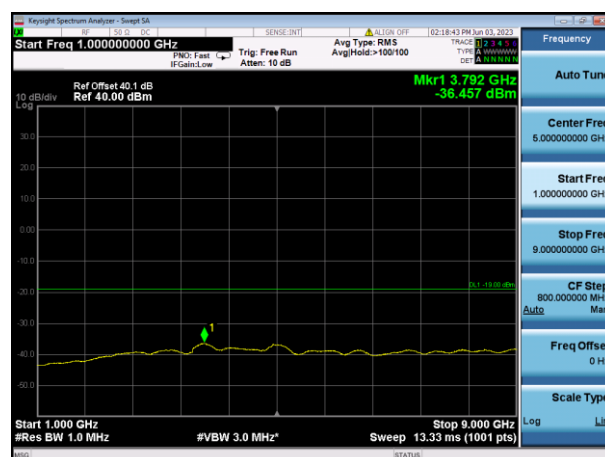
2 GSM+ 1 LTE_10MHz_QPSK+ GMSK (TC72)



2 GSM+ 1 LTE_10MHz_QPSK+ GMSK (TC72)



2 GSM+ 1 LTE_10MHz_QPSK+ GMSK (TC72)



Remark:

1. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB,
 $P = 46\text{dBm} = 39.8\text{W}$
 $\text{Limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.8\text{W})] \text{dB} = -13\text{dBm}$
2. For 4x4 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(4) = -19\text{dBm}$ in order to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All test configurations had been tested, only show the worst-case in this report.



5 Frequency Stability

Frequency stability vs temperature									
Test Conf.	ANT	Test CH	Voltage	Temp. (°C)	Freq. error (Hz)	Tolerance (ppm)	Limit (ppm)	Verdict	
1 LTE	TC00	ANT1	M	VN	+50	2.64	0.0030	1.5	Pass
	TC00	ANT1	M	VN	+40	1.81	0.0021	1.5	Pass
	TC00	ANT1	M	VN	+30	2.23	0.0025	1.5	Pass
	TC00	ANT1	M	VN	+20	2.07	0.0023	1.5	Pass
	TC00	ANT1	M	VN	+10	1.63	0.0018	1.5	Pass
	TC00	ANT1	M	VN	0	2.28	0.0026	1.5	Pass
	TC00	ANT1	M	VN	-10	1.37	0.0016	1.5	Pass
	TC00	ANT1	M	VN	-20	2.78	0.0032	1.5	Pass
	TC00	ANT1	M	VN	-30	3.11	0.0035	1.5	Pass

Remark:

All test configurations had been tested, only show the worst-case in this report.

Frequency stability vs Voltage									
Test Conf.	ANT	Test CH	Temp.	Voltage	Freq. error (Hz)	Tolerance (ppm)	Limit (ppm)	Verdict	
1 LTE	TC09	ANT1	M	TN	VL	2.25	0.0026	1.5	Pass
	TC09	ANT1	M	TN	VN	3.10	0.0035	1.5	Pass
	TC09	ANT1	M	TN	VH	1.86	0.0021	1.5	Pass

Remark:

All test configurations had been tested, only show the worst-case in this report.

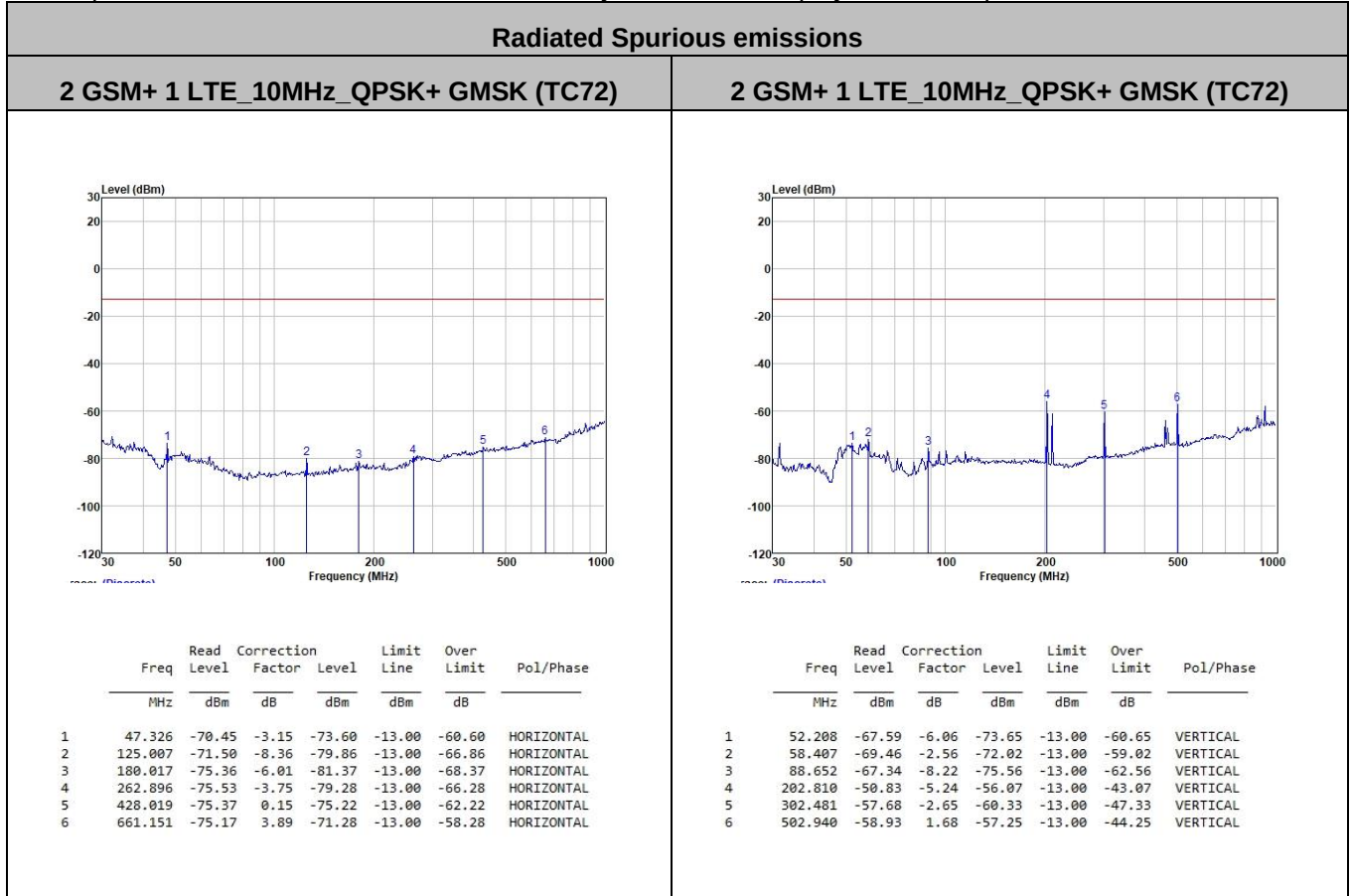


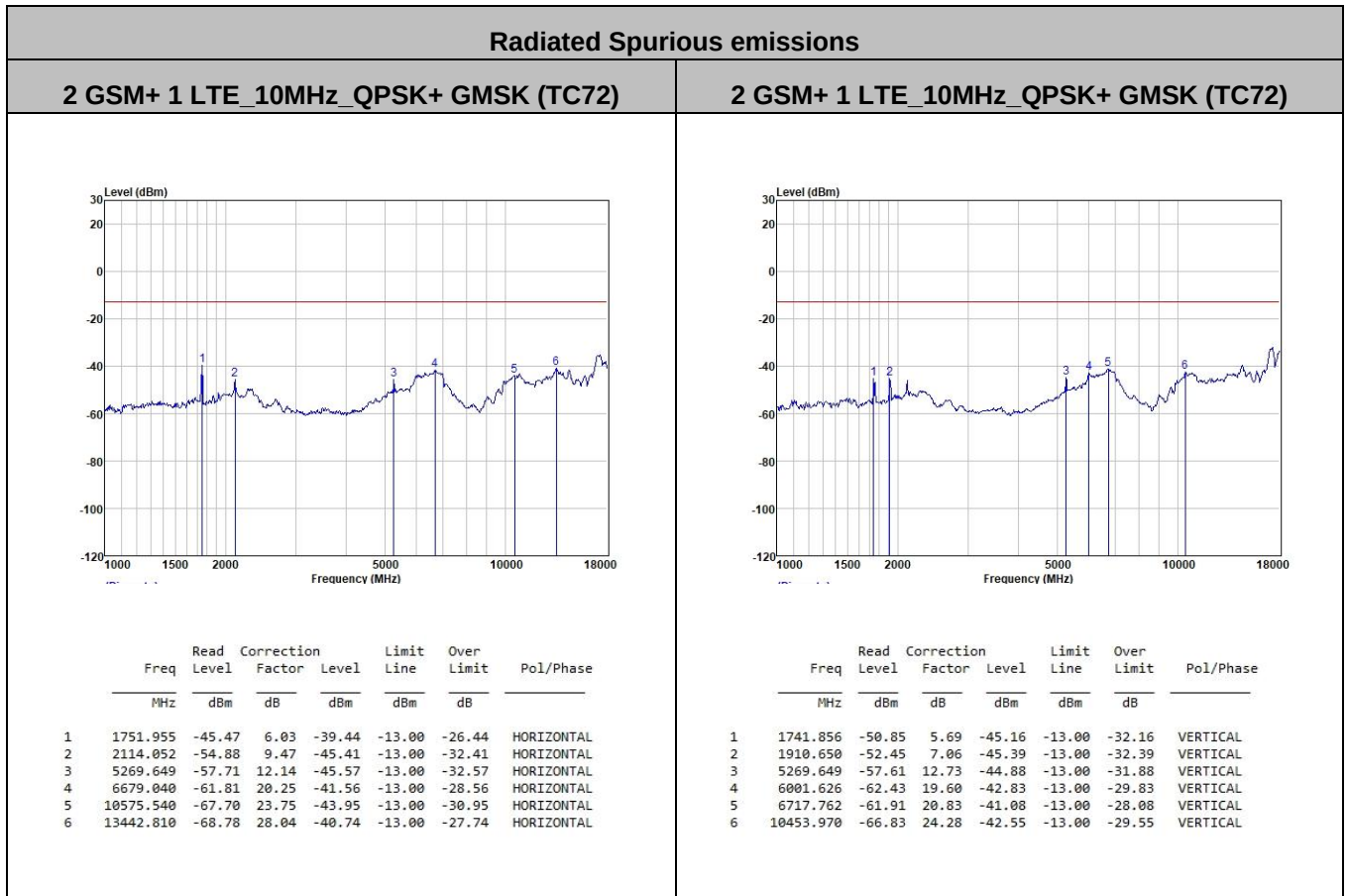
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6 Radiated Spurious emissions

All test configurations had been tested, only show the worst-case in this report.
The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.





--End of Appendix--