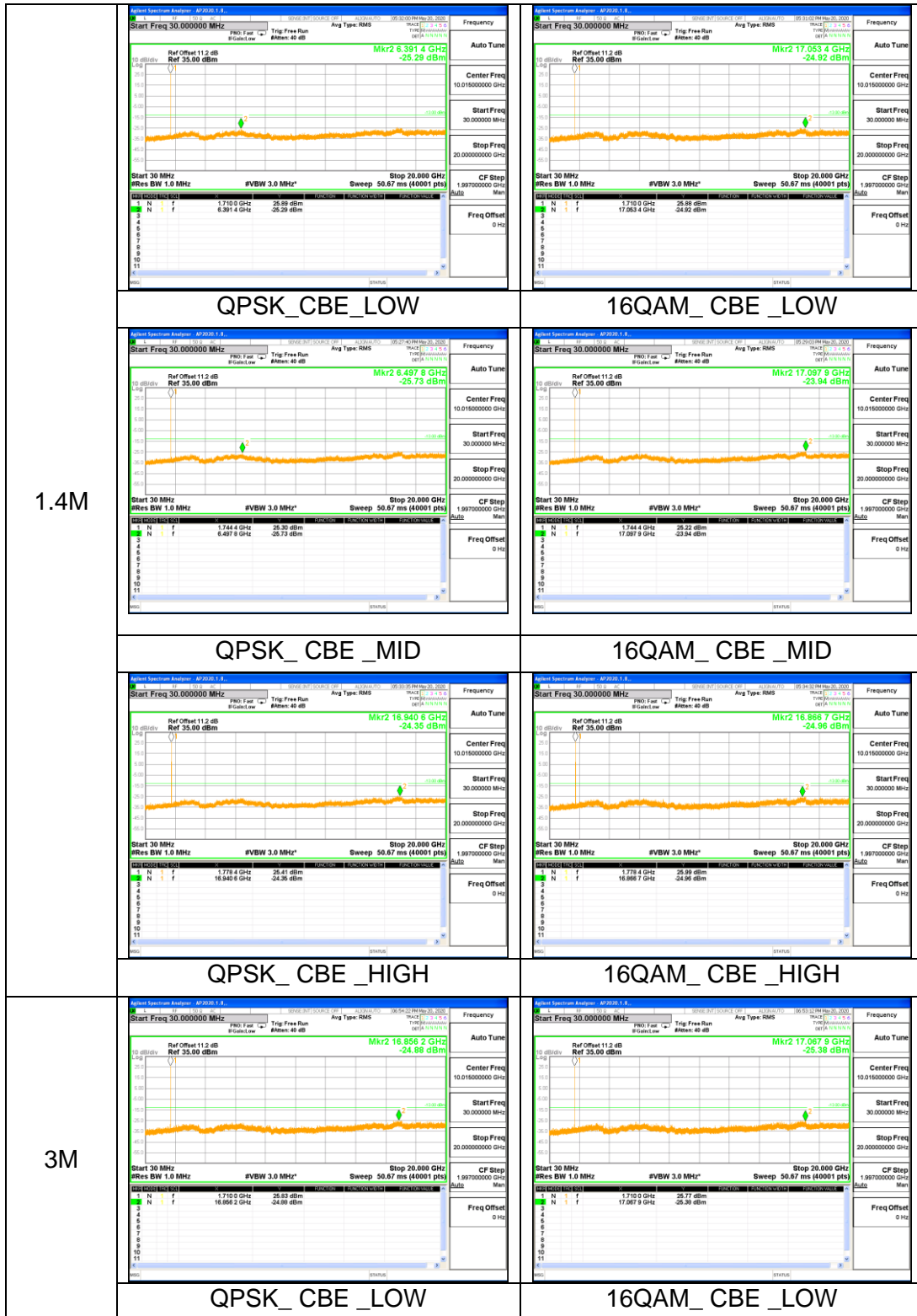
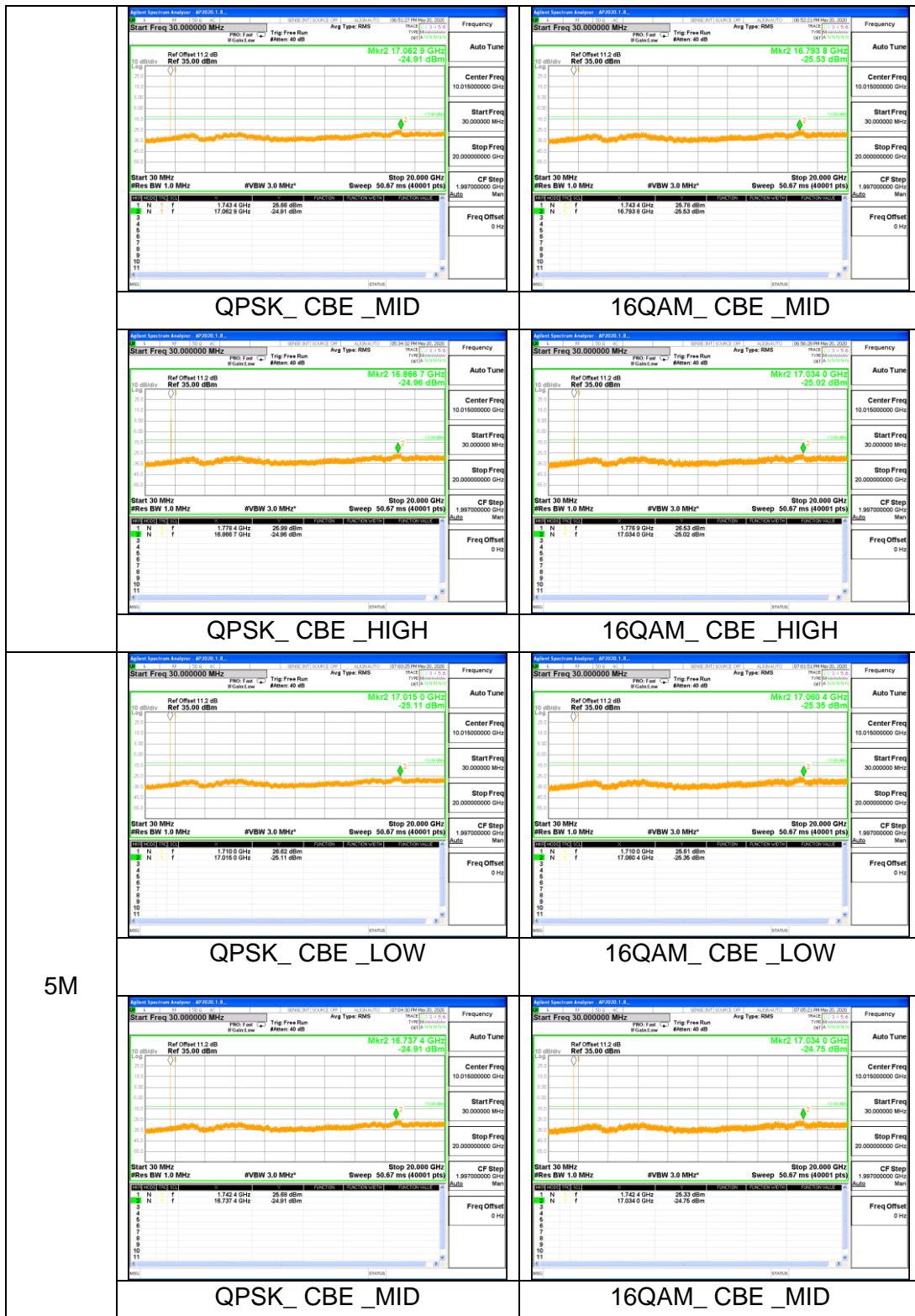
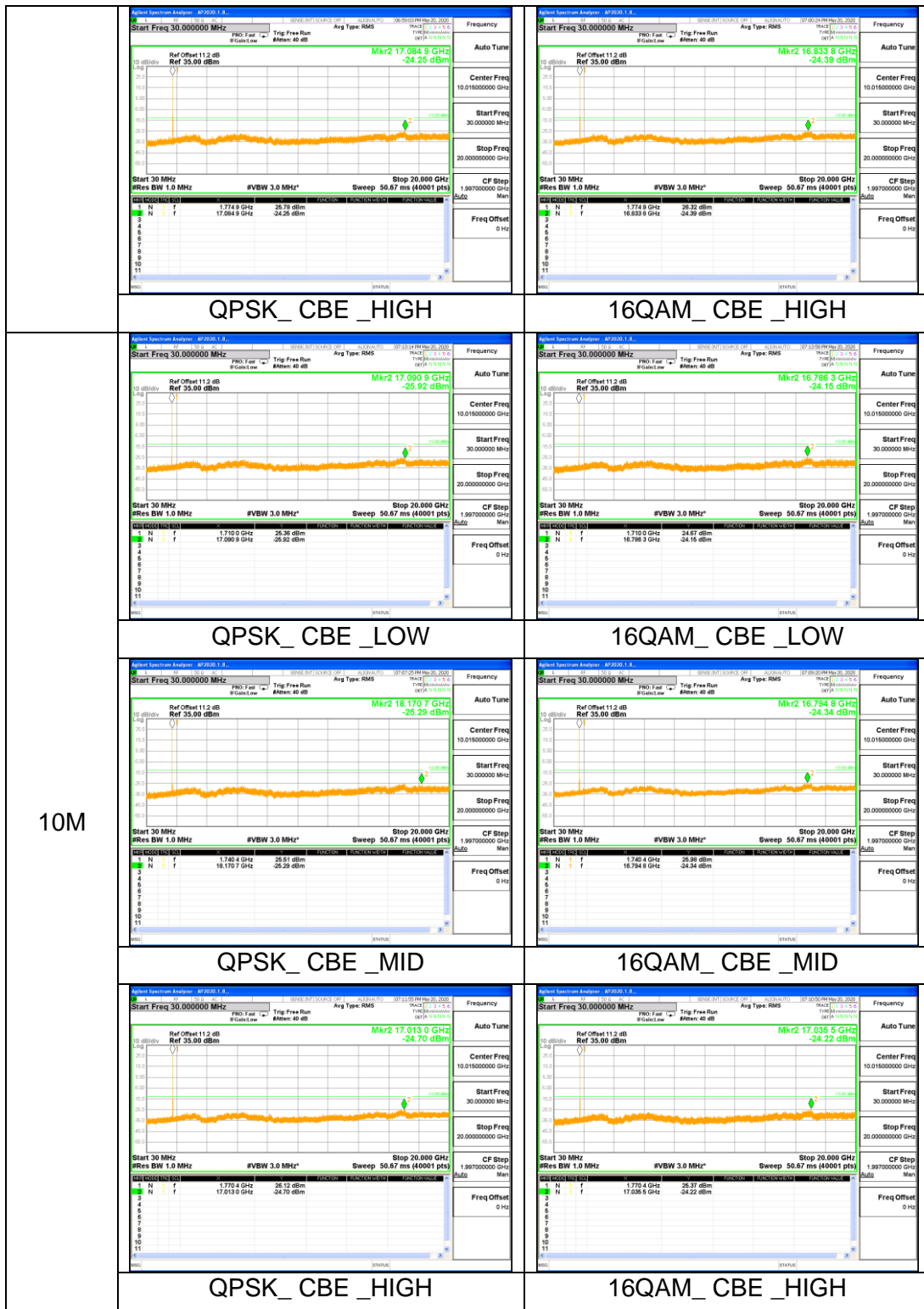
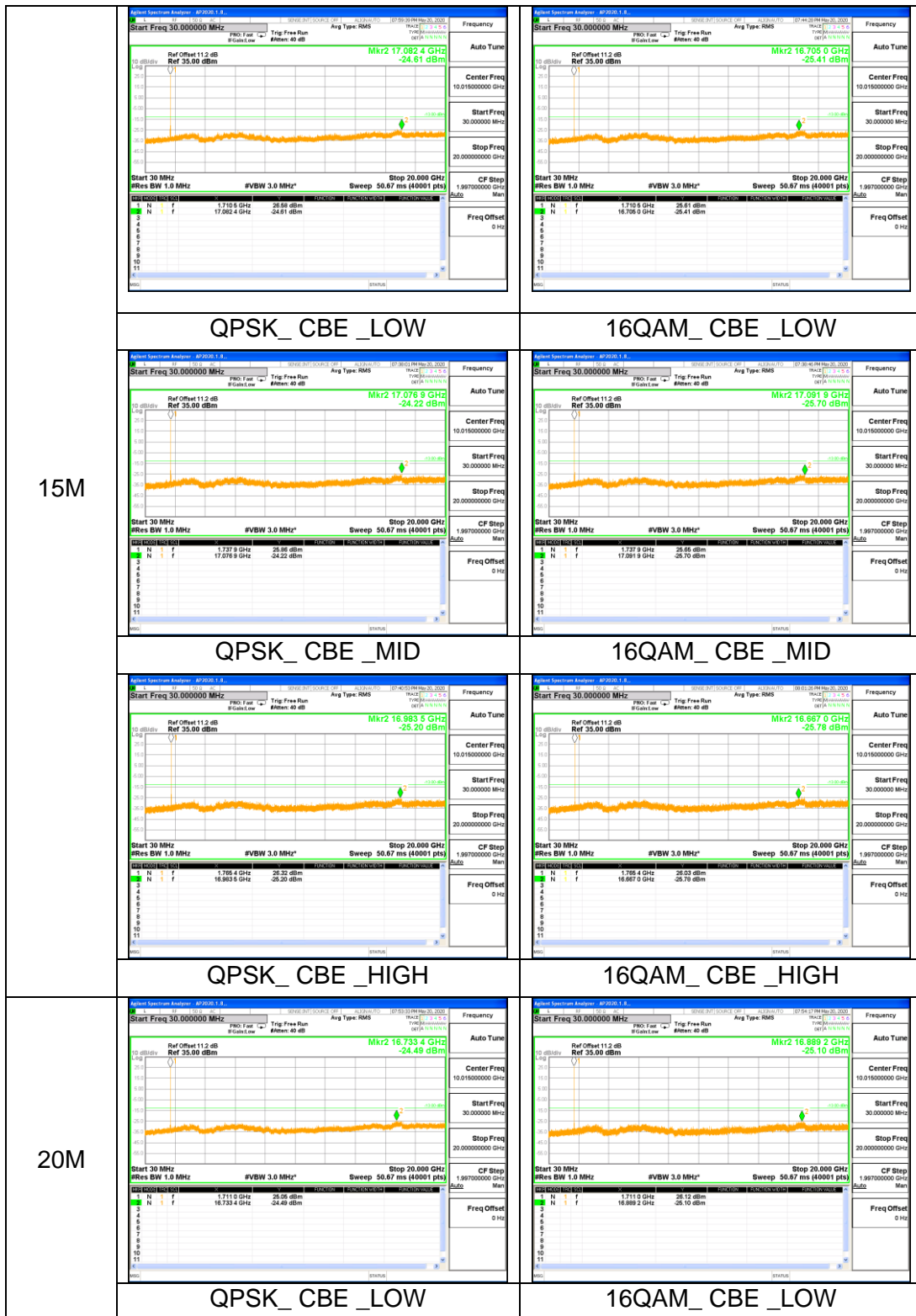


LTE Band 66



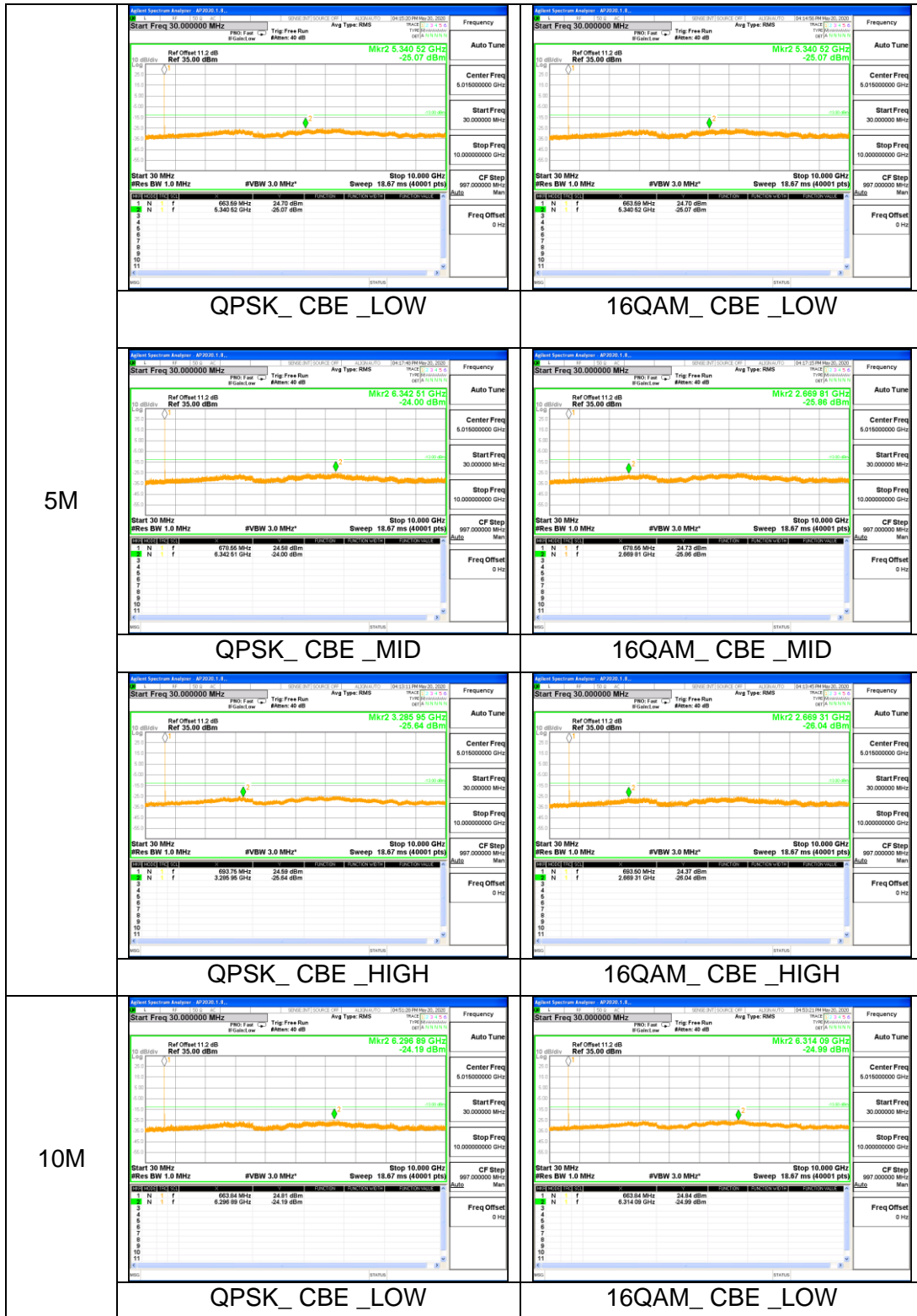


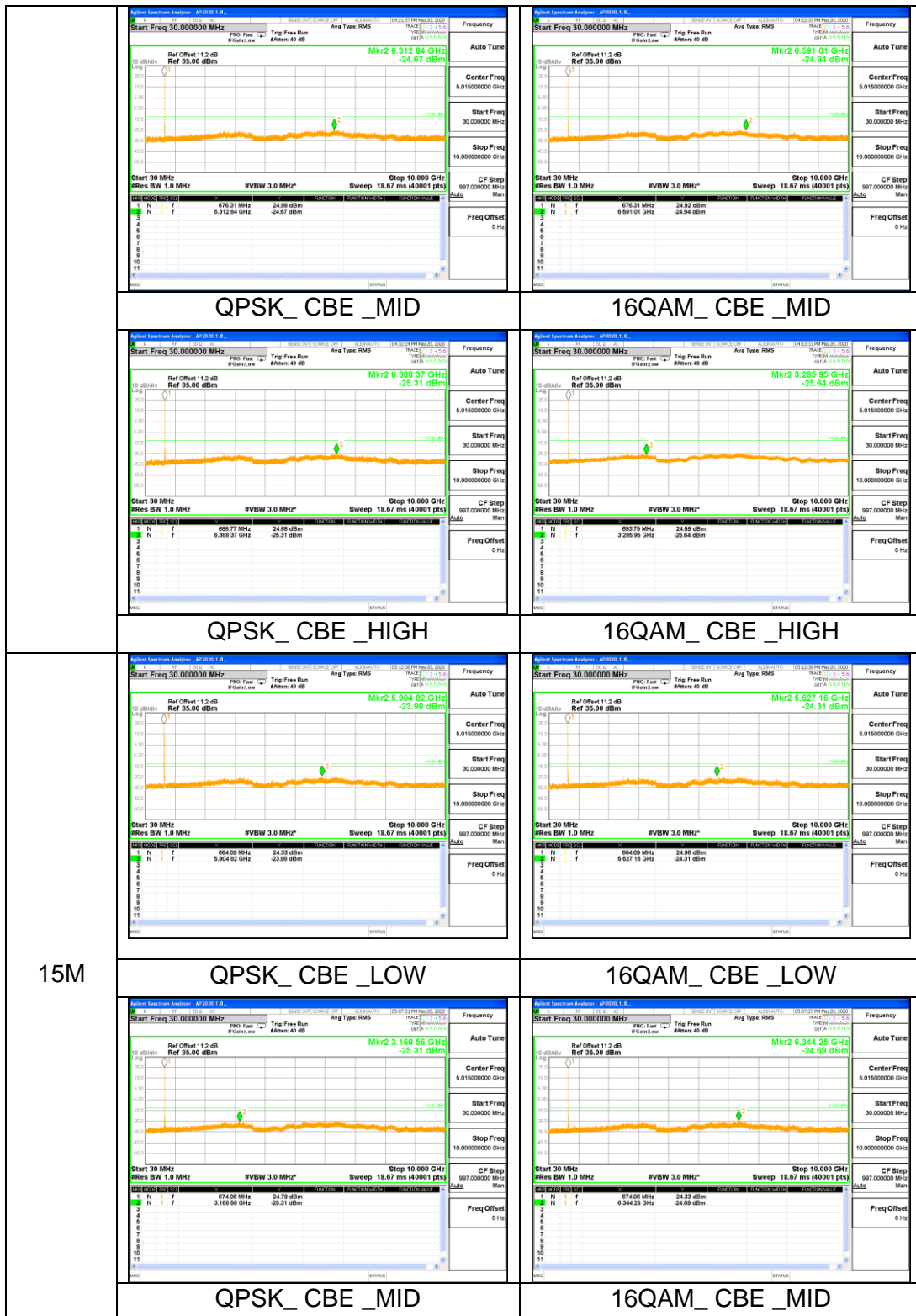


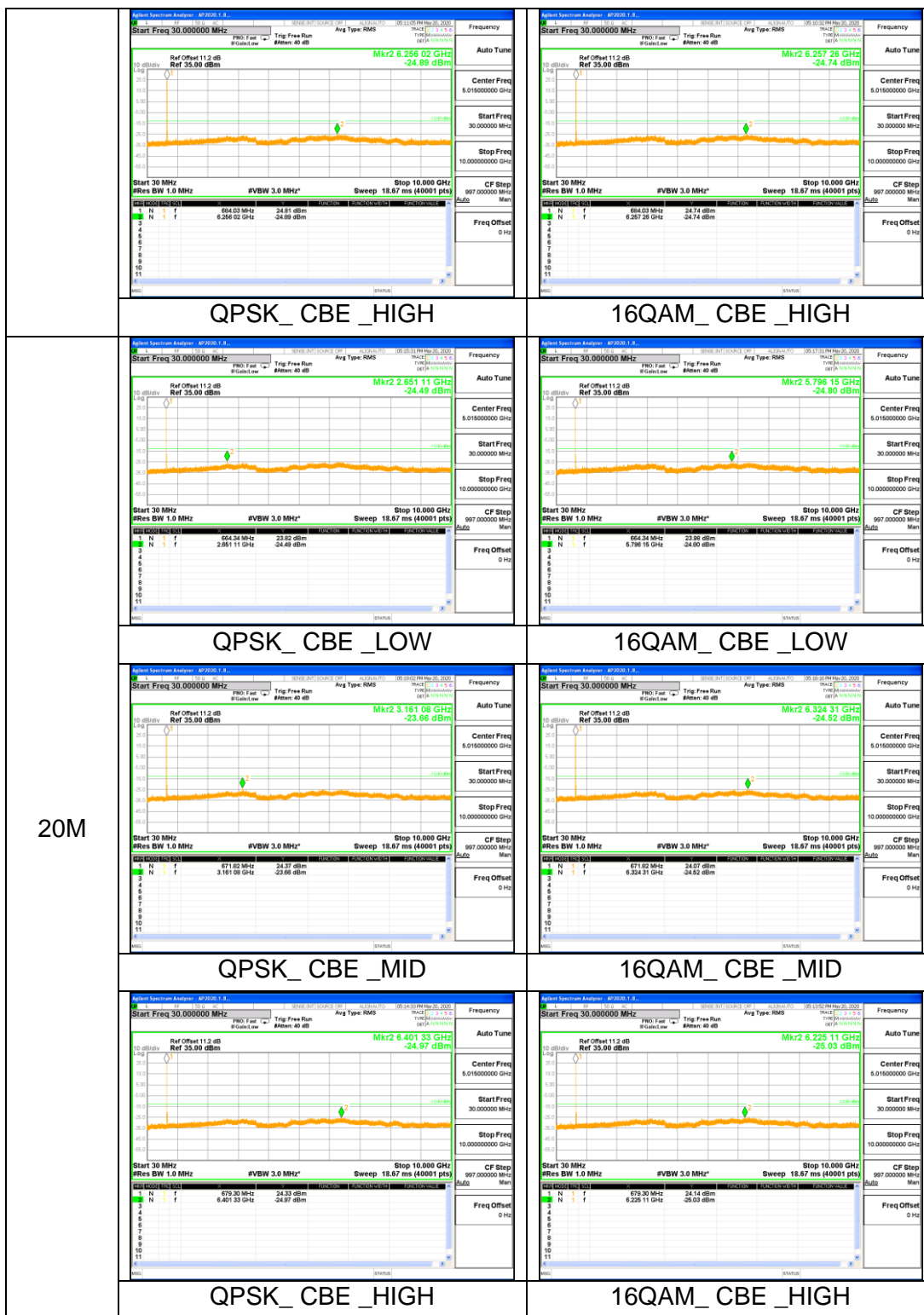




LTE Band 71







6.7 FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, §90.691.

LIMIT

Part §22.917(a), §24.238(a), §27.53(h)

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.

Part §27.53(m)

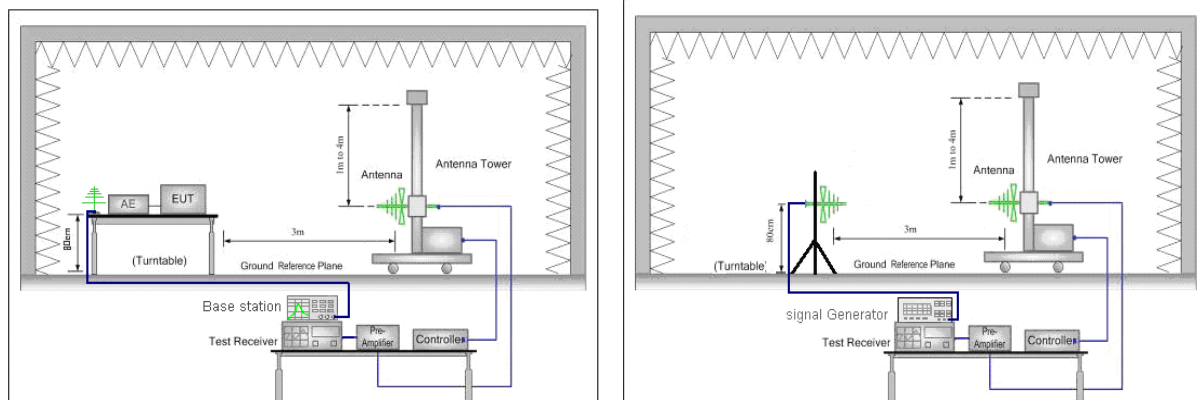
At least $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

Part §90.691

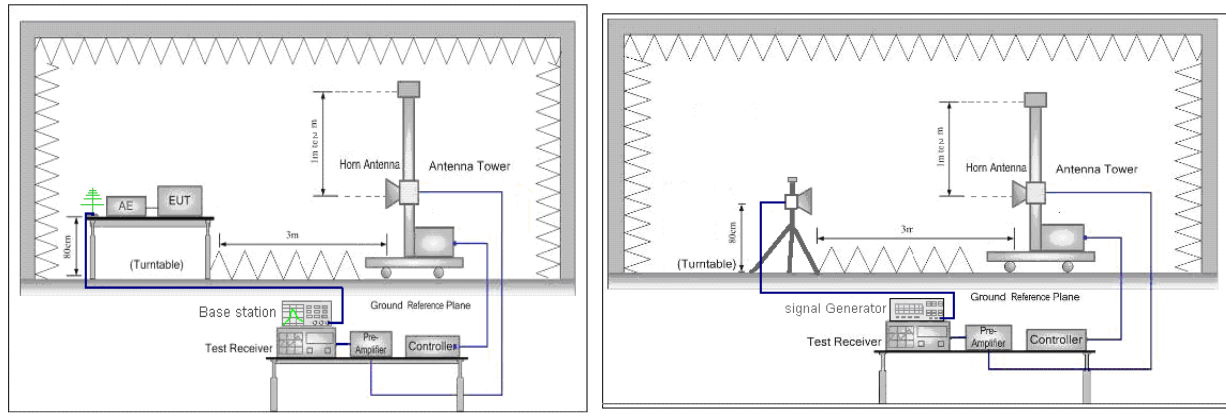
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST SETUP

Test Setup for Below 1G



Test Setup for Above 1G



TEST PROCEDURE

KDB 971168 D01 Section 7

Below 1GHz test procedure as below:

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Calculate power in dBm by the following formula:
 $ERP(dBm) = P_g (dBm) - \text{cable loss} (dB) + \text{antenna gain} (dBd)$

Where:

P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g [dBm] - \text{cable loss} [dB]$. The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10\log_{10}(\text{Power [Watts]})$.

Above 1GHz test procedure as below:

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Calculate power in dBm by the following formula:
 $EIRP(dBm) = P_g(dBm) - \text{cable loss} (dB) + \text{antenna gain} (dBi)$

EIRP=ERP+2.15dB

Where: Pg is the generator output power into the substitution antenna.

11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm.}$$

NOTE 1: Radiated spurious emissions were investigated below 30MHz, 30MHz – 1GHz and above 1GHz. There were no emissions found on below 30MHz and 30MHz – 1GHz.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site.

Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

NOTE 2: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

RESULTS

See the following pages

RADIATED SPURIOUS EMISSION RESULTS BETWEEN 30MHz and 1GHz

Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
32.91	-70.18	-13.00	-57.18	Horizontal	32.91	-71.41	-13.00	-58.41	Horizontal
176.47	-82.97	-13.00	-69.97	Horizontal	167.74	-85.74	-13.00	-72.74	Horizontal
299.66	-79.60	-13.00	-66.60	Horizontal	426.73	-82.74	-13.00	-69.74	Horizontal
350.10	-80.62	-13.00	-67.62	Horizontal	573.20	-79.88	-13.00	-66.88	Horizontal
800.18	-69.03	-13.00	-56.03	Horizontal	771.08	-75.59	-13.00	-62.59	Horizontal
960.23	-69.71	-13.00	-56.71	Horizontal	944.71	-69.27	-13.00	-56.27	Horizontal
Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
32.91	-65.50	-13.00	-52.50	Vertical	32.91	-66.04	-13.00	-53.04	Vertical
61.04	-73.89	-13.00	-60.89	Vertical	252.13	-74.37	-13.00	-61.37	Vertical
202.66	-77.71	-13.00	-64.71	Vertical	375.32	-78.95	-13.00	-65.95	Vertical
385.02	-78.45	-13.00	-65.45	Vertical	669.23	-77.67	-13.00	-64.67	Vertical
676.99	-75.80	-13.00	-62.80	Vertical	800.18	-68.72	-13.00	-55.72	Vertical
858.38	-71.44	-13.00	-58.44	Vertical	947.62	-70.30	-13.00	-57.30	Vertical
LTE B2					LTE B4				
Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
32.91	-72.28	-13.00	-59.28	Horizontal	32.91	-65.84	-13.00	-52.84	Horizontal
159.01	-89.93	-13.00	-76.93	Horizontal	131.85	-84.87	-13.00	-71.87	Horizontal
250.19	-85.03	-13.00	-72.03	Horizontal	267.65	-87.33	-13.00	-74.33	Horizontal
476.20	-82.55	-13.00	-69.55	Horizontal	410.24	-84.41	-13.00	-71.41	Horizontal
652.74	-79.75	-13.00	-66.75	Horizontal	496.87	-81.75	-13.00	-68.75	Horizontal
769.41	-77.12	-13.00	-64.12	Horizontal	897.18	-72.88	-13.00	-59.88	Horizontal
Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
32.91	-65.87	-13.00	-52.87	Vertical	32.91	-64.14	-13.00	-51.14	Vertical
61.04	-73.06	-13.00	-60.06	Vertical	110.51	-83.43	-13.00	-70.43	Vertical
227.88	-80.80	-13.00	-67.80	Vertical	202.66	-85.82	-13.00	-72.82	Vertical
350.10	-82.35	-13.00	-69.35	Vertical	432.55	-84.23	-13.00	-71.23	Vertical
547.98	-79.83	-13.00	-66.83	Vertical	557.68	-80.40	-13.00	-67.40	Vertical
708.03	-78.01	-13.00	-65.01	Vertical	884.57	-72.38	-13.00	-59.38	Vertical
LTE B5					LTE B12				
Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
33.88	-66.38	-13.00	-53.38	Horizontal	32.91	-72.04	-13.00	-59.04	Horizontal
107.60	-84.16	-13.00	-71.16	Horizontal	186.17	-86.18	-13.00	-73.18	Horizontal
350.10	-83.66	-13.00	-70.66	Horizontal	394.72	-82.99	-13.00	-69.99	Horizontal
489.78	-82.29	-13.00	-69.29	Horizontal	526.64	-80.55	-13.00	-67.55	Horizontal
663.41	-77.79	-13.00	-64.79	Horizontal	697.36	-77.47	-13.00	-64.47	Horizontal
939.86	-71.43	-13.00	-58.43	Horizontal	901.06	-70.92	-13.00	-57.92	Horizontal
Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
32.91	-63.85	-13.00	-50.85	Vertical	32.91	-64.80	-13.00	-51.80	Vertical
107.60	-83.61	-13.00	-70.61	Vertical	107.60	-83.10	-13.00	-70.10	Vertical
318.09	-85.54	-13.00	-72.54	Vertical	234.67	-80.81	-13.00	-67.81	Vertical
432.55	-83.24	-13.00	-70.24	Vertical	450.01	-82.96	-13.00	-69.96	Vertical
574.17	-80.59	-13.00	-67.59	Vertical	671.17	-77.51	-13.00	-64.51	Vertical
707.06	-77.26	-13.00	-64.26	Vertical	800.18	-75.60	-13.00	-62.60	Vertical
LTE B13					LTE B25				

Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
32.91	-64.80	-13.00	-51.80	Horizontal	32.91	-70.92	-13.00	-57.92	Horizontal
107.60	-83.10	-13.00	-70.10	Horizontal	176.47	-85.90	-13.00	-72.90	Horizontal
234.67	-80.81	-13.00	-67.81	Horizontal	332.64	-83.77	-13.00	-70.77	Horizontal
450.01	-82.96	-13.00	-69.96	Horizontal	612.00	-78.70	-13.00	-65.70	Horizontal
671.17	-77.51	-13.00	-64.51	Horizontal	775.93	-75.74	-13.00	-62.74	Horizontal
800.18	-75.60	-13.00	-62.60	Horizontal	875.84	-72.34	-13.00	-59.34	Horizontal
Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
32.91	-64.80	-13.00	-51.80	Vertical	32.91	-65.63	-13.00	-52.63	Vertical
107.60	-83.10	-13.00	-70.10	Vertical	156.10	-82.81	-13.00	-69.81	Vertical
234.67	-80.81	-13.00	-67.81	Vertical	242.43	-76.44	-13.00	-63.44	Vertical
450.01	-82.96	-13.00	-69.96	Vertical	400.54	-81.44	-13.00	-68.44	Vertical
671.17	-77.51	-13.00	-64.51	Vertical	800.18	-69.96	-13.00	-56.96	Vertical
800.18	-75.60	-13.00	-62.60	Vertical	944.71	-69.17	-13.00	-56.17	Vertical
LTE B26					LTE B41				
Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
32.91	-71.11	-13.00	-58.11	Horizontal	32.91	-73.34	-13.00	-60.34	Horizontal
299.66	-83.94	-13.00	-70.94	Horizontal	119.24	-90.83	-13.00	-77.83	Horizontal
542.16	-80.54	-13.00	-67.54	Horizontal	206.54	-87.19	-13.00	-74.19	Horizontal
676.99	-77.68	-13.00	-64.68	Horizontal	447.10	-84.16	-13.00	-71.16	Horizontal
800.18	-73.17	-13.00	-60.17	Horizontal	595.51	-81.27	-13.00	-68.27	Horizontal
893.30	-72.41	-13.00	-59.41	Horizontal	957.32	-73.11	-13.00	-60.11	Horizontal
Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
32.91	-65.03	-13.00	-52.03	Vertical	32.91	-73.34	-13.00	-60.34	Vertical
61.04	-75.41	-13.00	-62.41	Vertical	119.24	-90.83	-13.00	-77.83	Vertical
202.66	-75.34	-13.00	-62.34	Vertical	206.54	-87.19	-13.00	-74.19	Vertical
399.57	-80.29	-13.00	-67.29	Vertical	447.10	-84.16	-13.00	-71.16	Vertical
700.27	-76.04	-13.00	-63.04	Vertical	595.51	-81.27	-13.00	-68.27	Vertical
867.11	-70.01	-13.00	-57.01	Vertical	957.32	-73.11	-13.00	-60.11	Vertical
LTE B66					LTE B71				

RADIATED SPURIOUS EMISSION RESULTS ABOVE 1GHz

LTE Band 2

Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1304.00	-32.73	-13.00	-19.73	Horizontal	1720.00	-30.47	-13.00	-17.47	Horizontal
1442.00	-32.08	-13.00	-19.08	Horizontal	1880.00	21.12	-13.00	/	Horizontal
1850.00	23.02	-13.00	/	Horizontal	2392.00	-26.19	-13.00	-13.19	Horizontal
1930.00	-25.12	-13.00	-12.12	Horizontal	2488.00	-25.45	-13.00	-12.45	Horizontal
2512.00	-26.23	-13.00	-13.23	Horizontal	2748.00	-25.48	-13.00	-12.48	Horizontal
2846.00	-24.61	-13.00	-11.61	Horizontal	2852.00	-24.23	-13.00	-11.23	Horizontal
4995.00	-42.67	-13.00	-29.67	Horizontal	5190.00	-42.43	-13.00	-29.43	Horizontal
6000.00	-44.86	-13.00	-31.86	Horizontal	6000.00	-43.92	-13.00	-30.92	Horizontal
7245.00	-42.39	-13.00	-29.39	Horizontal	7245.00	-41.42	-13.00	-28.42	Horizontal
7500.00	-43.93	-13.00	-30.93	Horizontal	7500.00	-43.57	-13.00	-30.57	Horizontal
8505.00	-43.87	-13.00	-30.87	Horizontal	8490.00	-44.13	-13.00	-31.13	Horizontal
10005.00	-40.36	-13.00	-27.36	Horizontal	10005.00	-40.61	-13.00	-27.61	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1772.00	-29.90	-13.00	-16.90	Vertical	1732.00	-29.91	-13.00	-16.91	Vertical
1850.00	23.20	-13.00	/	Vertical	1880.00	21.68	-13.00	/	Vertical
1930.00	-23.74	-13.00	-10.74	Vertical	1960.00	-24.94	-13.00	-11.94	Vertical
2282.00	-27.31	-13.00	-14.31	Vertical	2492.00	-25.47	-13.00	-12.47	Vertical
2490.00	-26.01	-13.00	-13.01	Vertical	2784.00	-24.13	-13.00	-11.13	Vertical
2858.00	-25.04	-13.00	-12.04	Vertical	2986.00	-24.79	-13.00	-11.79	Vertical
5550.00	-41.62	-13.00	-28.62	Vertical	4995.00	-42.92	-13.00	-29.92	Vertical
6000.00	-41.23	-13.00	-28.23	Vertical	6000.00	-42.34	-13.00	-29.34	Vertical
7245.00	-41.83	-13.00	-28.83	Vertical	6990.00	-42.59	-13.00	-29.59	Vertical
8250.00	-43.62	-13.00	-30.62	Vertical	7245.00	-43.06	-13.00	-30.06	Vertical
8505.00	-43.76	-13.00	-30.76	Vertical	8505.00	-42.50	-13.00	-29.50	Vertical
10005.00	-40.10	-13.00	-27.10	Vertical	10005.00	-39.94	-13.00	-26.94	Vertical
LTE B2 QPSK-1.4M-Low					LTE B2 QPSK-1.4M-Mid				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1770.00	-29.73	-13.00	-16.73	Horizontal	1666.00	-30.82	-13.00	-17.82	Horizontal
1876.00	-28.47	-13.00	-15.47	Horizontal	1850.00	19.13	-13.00	/	Horizontal
1908.00	14.61	-13.00	/	Horizontal	1964.00	-28.40	-13.00	-15.40	Horizontal
2476.00	-26.33	-13.00	-13.33	Horizontal	2416.00	-26.26	-13.00	-13.26	Horizontal
2864.00	-24.51	-13.00	-11.51	Horizontal	2894.00	-24.55	-13.00	-11.55	Horizontal
2976.00	-24.40	-13.00	-11.40	Horizontal	2992.00	-24.97	-13.00	-11.97	Horizontal
4995.00	-44.68	-13.00	-31.68	Horizontal	3750.00	-45.20	-13.00	-32.20	Horizontal
6000.00	-43.40	-13.00	-30.40	Horizontal	4995.00	-43.44	-13.00	-30.44	Horizontal
6495.00	-44.20	-13.00	-31.20	Horizontal	6000.00	-44.14	-13.00	-31.14	Horizontal
7245.00	-42.30	-13.00	-29.30	Horizontal	7245.00	-41.42	-13.00	-28.42	Horizontal
8505.00	-43.09	-13.00	-30.09	Horizontal	8505.00	-43.35	-13.00	-30.35	Horizontal
10005.00	-40.98	-13.00	-27.98	Horizontal	10005.00	-41.41	-13.00	-28.41	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1220.00	-31.49	-13.00	-18.49	Vertical	1812.00	-29.62	-13.00	-16.62	Vertical
1832.00	-29.27	-13.00	-16.27	Vertical	1850.00	23.34	-13.00	/	Vertical
1908.00	21.33	-13.00	/	Vertical	1930.00	-24.46	-13.00	-11.46	Vertical
1990.00	-25.07	-13.00	-12.07	Vertical	2376.00	-26.56	-13.00	-13.56	Vertical
2452.00	-26.64	-13.00	-13.64	Vertical	2702.00	-25.58	-13.00	-12.58	Vertical
2834.00	-25.29	-13.00	-12.29	Vertical	2832.00	-24.58	-13.00	-11.58	Vertical
4995.00	-42.16	-13.00	-29.16	Vertical	3750.00	-45.20	-13.00	-32.20	Vertical
5715.00	-40.94	-13.00	-27.94	Vertical	4995.00	-43.44	-13.00	-30.44	Vertical
6000.00	-41.60	-13.00	-28.60	Vertical	6000.00	-44.14	-13.00	-31.14	Vertical
7245.00	-42.29	-13.00	-29.29	Vertical	7245.00	-41.42	-13.00	-28.42	Vertical
8505.00	-44.12	-13.00	-31.12	Vertical	8505.00	-43.35	-13.00	-30.35	Vertical
10005.00	-39.30	-13.00	-26.30	Vertical	10005.00	-41.41	-13.00	-28.41	Vertical
LTE B2 QPSK-1.4M-High					LTE B2 16QAM-1.4M-Low				

Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1404.00	-31.93	-13.00	-18.93	Horizontal
1776.00	-29.03	-13.00	-16.03	Horizontal
1880.00	18.38	-13.00	/	Horizontal
2394.00	-26.44	-13.00	-13.44	Horizontal
2580.00	-25.47	-13.00	-12.47	Horizontal
2848.00	-24.96	-13.00	-11.96	Horizontal
4995.00	-40.85	-13.00	-27.85	Horizontal
6000.00	-44.00	-13.00	-31.00	Horizontal
7245.00	-39.19	-13.00	-26.19	Horizontal
8505.00	-42.67	-13.00	-29.67	Horizontal
10005.00	-41.68	-13.00	-28.68	Horizontal
12495.00	-43.93	-13.00	-30.93	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1880.00	22.72	-13.00	/	Vertical
1960.00	-25.50	-13.00	-12.50	Vertical
2486.00	-26.52	-13.00	-13.52	Vertical
2696.00	-25.20	-13.00	-12.20	Vertical
2828.00	-25.17	-13.00	-12.17	Vertical
2978.00	-24.78	-13.00	-11.78	Vertical
5640.00	-41.91	-13.00	-28.91	Vertical
5745.00	-41.63	-13.00	-28.63	Vertical
6000.00	-42.59	-13.00	-29.59	Vertical
7245.00	-42.30	-13.00	-29.30	Vertical
8505.00	-45.03	-13.00	-32.03	Vertical
10005.00	-40.71	-13.00	-27.71	Vertical

Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1272.00	-32.54	-13.00	-19.54	Horizontal
1780.00	-29.68	-13.00	-16.68	Horizontal
1908.00	15.52	-13.00	/	Horizontal
2484.00	-26.35	-13.00	-13.35	Horizontal
2726.00	-25.80	-13.00	-12.80	Horizontal
2866.00	-24.95	-13.00	-11.95	Horizontal
4995.00	-43.45	-13.00	-30.45	Horizontal
6000.00	-44.31	-13.00	-31.31	Horizontal
7245.00	-41.20	-13.00	-28.20	Horizontal
8505.00	-43.79	-13.00	-30.79	Horizontal
10005.00	-41.25	-13.00	-28.25	Horizontal
11505.00	-44.89	-13.00	-31.89	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1908.00	21.43	-13.00	/	Vertical
1990.00	-25.02	-13.00	-12.02	Vertical
2370.00	-27.12	-13.00	-14.12	Vertical
2506.00	-25.96	-13.00	-12.96	Vertical
2808.00	-25.13	-13.00	-12.13	Vertical
2948.00	-24.39	-13.00	-11.39	Vertical
4985.00	-43.64	-13.00	-30.64	Vertical
5715.00	-41.61	-13.00	-28.61	Vertical
6000.00	-40.82	-13.00	-27.82	Vertical
7245.00	-41.93	-13.00	-28.93	Vertical
8505.00	-44.02	-13.00	-31.02	Vertical
10005.00	-39.90	-13.00	-26.90	Vertical

LTE B2 16QAM-1.4M-Mid				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1328.00	-32.16	-13.00	-19.16	Horizontal
1766.00	-30.22	-13.00	-17.22	Horizontal
1850.00	19.46	-13.00	/	Horizontal
1868.00	-14.28	-13.00	-1.28	Horizontal
2852.00	-24.81	-13.00	-11.81	Horizontal
2948.00	-24.59	-13.00	-11.59	Horizontal
4995.00	-43.38	-13.00	-30.38	Horizontal
6000.00	-43.43	-13.00	-30.43	Horizontal
6495.00	-44.54	-13.00	-31.54	Horizontal
7245.00	-42.24	-13.00	-29.24	Horizontal
8505.00	-43.53	-13.00	-30.53	Horizontal
10005.00	-40.71	-13.00	-27.71	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1754.00	-25.92	-13.00	-12.92	Vertical
1850.00	24.07	-13.00	/	Vertical
1868.00	-17.61	-13.00	-4.61	Vertical
1936.00	-20.34	-13.00	-7.34	Vertical
2366.00	-27.41	-13.00	-14.41	Vertical
2812.00	-24.22	-13.00	-11.22	Vertical
3735.00	-42.29	-13.00	-29.29	Vertical
5550.00	-41.93	-13.00	-28.93	Vertical
7500.00	-43.48	-13.00	-30.48	Vertical
8505.00	-43.51	-13.00	-30.51	Vertical
10005.00	-40.95	-13.00	-27.95	Vertical
15270.00	-41.56	-13.00	-28.56	Vertical

LTE B2 16QAM-1.4M-High				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1544.00	-31.06	-13.00	-18.06	Horizontal
1650.00	-31.00	-13.00	-18.00	Horizontal
1870.00	20.05	-13.00	/	Horizontal
2164.00	-28.14	-13.00	-15.14	Horizontal
2502.00	-26.06	-13.00	-13.06	Horizontal
2820.00	-24.59	-13.00	-11.59	Horizontal
3525.00	-49.16	-13.00	-36.16	Horizontal
4995.00	-44.29	-13.00	-31.29	Horizontal
6000.00	-42.83	-13.00	-29.83	Horizontal
7245.00	-41.56	-13.00	-28.56	Horizontal
8505.00	-43.12	-13.00	-30.12	Horizontal
10005.00	-39.76	-13.00	-26.76	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1682.00	-23.99	-13.00	-10.99	Vertical
1726.00	-25.98	-13.00	-12.98	Vertical
1870.00	24.94	-13.00	/	Vertical
1906.00	-22.37	-13.00	-9.37	Vertical
1958.00	-20.38	-13.00	-7.38	Vertical
2024.00	-24.18	-13.00	-11.18	Vertical
3525.00	-49.16	-13.00	-36.16	Vertical
4995.00	-44.29	-13.00	-31.29	Vertical
6000.00	-42.83	-13.00	-29.83	Vertical
7245.00	-41.56	-13.00	-28.56	Vertical
8505.00	-43.12	-13.00	-30.12	Vertical
10005.00	-39.76	-13.00	-26.76	Vertical

LTE B2 QPSK-20M-Low				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1540.00	-31.58	-13.00	-18.58	Horizontal
1874.00	-23.62	-13.00	-10.62	Horizontal
1890.00	18.98	-13.00	/	Horizontal
2158.00	-28.16	-13.00	-15.16	Horizontal
2524.00	-25.56	-13.00	-12.56	Horizontal
2756.00	-25.27	-13.00	-12.27	Horizontal
4995.00	-41.65	-13.00	-28.65	Horizontal
6000.00	-42.69	-13.00	-29.69	Horizontal
7245.00	-40.92	-13.00	-27.92	Horizontal
8505.00	-43.11	-13.00	-30.11	Horizontal
10005.00	-41.54	-13.00	-28.54	Horizontal
12495.00	-43.76	-13.00	-30.76	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1854.00	-23.26	-13.00	-10.26	Vertical
1874.00	-25.76	-13.00	-12.76	Vertical
1892.00	23.33	-13.00	/	Vertical
1974.00	-20.71	-13.00	-7.71	Vertical
2294.00	-26.15	-13.00	-13.15	Vertical
2648.00	-25.87	-13.00	-12.87	Vertical
5745.00	-40.90	-13.00	-27.90	Vertical
6000.00	-41.23	-13.00	-28.23	Vertical
7245.00	-42.84	-13.00	-29.84	Vertical
8505.00	-43.07	-13.00	-30.07	Vertical
10005.00	-39.84	-13.00	-26.84	Vertical
14355.00	-40.14	-13.00	-27.14	Vertical

LTE B2 QPSK-20M-Mid				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1850.00	18.92	-13.00	/	Horizontal
1868.00	-14.44	-13.00	-1.44	Horizontal
1934.00	-27.79	-13.00	-14.79	Horizontal
2282.00	-27.80	-13.00	-14.80	Horizontal
2586.00	-25.86	-13.00	-12.86	Horizontal
2852.00	-25.05	-13.00	-12.05	Horizontal
3840.00	-41.84	-13.00	-28.84	Horizontal
4770.00	-43.54	-13.00	-30.54	Horizontal
4995.00	-42.60	-13.00	-29.60	Horizontal
6000.00	-43.53	-13.00	-30.53	Horizontal
7245.00	-42.10	-13.00	-29.10	Horizontal
10005.00	-41.65	-13.00	-28.65	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1372.00	-26.71	-13.00	-13.71	Vertical
1412.00	-19.32	-13.00	-6.32	Vertical
1434.00	-25.82	-13.00	-12.82	Vertical
1850.00	23.72	-13.00	/	Vertical
1888.00	-11.06	-13.00	/	Vertical
1940.00	-20.41	-13.00	-7.41	Vertical
5745.00	-42.96	-13.00	-29.96	Vertical
6000.00	-42.62	-13.00	-29.62	Vertical
6990.00	-43.36	-13.00	-30.36	Vertical
7245.00	-43.37	-13.00	-30.37	Vertical
8505.00	-44.51	-13.00	-31.51	Vertical
10005.00	-39.56	-13.00	-26.56	Vertical

LTE B2 QPSK-20M-High				
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LTE B2 16QAM-20M-Low				
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Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1766.00	-29.11	-13.00	-16.11	Horizontal	1872.00	-23.69	-13.00	-10.69	Horizontal
1870.00	19.91	-13.00	/	Horizontal	1892.00	18.72	-13.00	/	Horizontal
1888.00	-21.93	-13.00	-8.93	Horizontal	1908.00	-16.82	-13.00	-3.82	Horizontal
2086.00	-27.55	-13.00	-14.55	Horizontal	2426.00	-26.55	-13.00	-13.55	Horizontal
2502.00	-25.96	-13.00	-12.96	Horizontal	2484.00	-26.40	-13.00	-13.40	Horizontal
2800.00	-24.97	-13.00	-11.97	Horizontal	2830.00	-24.94	-13.00	-11.94	Horizontal
4995.00	-43.92	-13.00	-30.92	Horizontal	4995.00	-41.43	-13.00	-28.43	Horizontal
6000.00	-43.12	-13.00	-30.12	Horizontal	6000.00	-43.40	-13.00	-30.40	Horizontal
7245.00	-39.78	-13.00	-26.78	Horizontal	7245.00	-41.10	-13.00	-28.10	Horizontal
7500.00	-43.39	-13.00	-30.39	Horizontal	7500.00	-44.69	-13.00	-31.69	Horizontal
8505.00	-43.41	-13.00	-30.41	Horizontal	8505.00	-44.15	-13.00	-31.15	Horizontal
10005.00	-40.04	-13.00	-27.04	Horizontal	10005.00	-40.35	-13.00	-27.35	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1872.00	23.19	-13.00	/	Vertical	1586.00	-20.83	-13.00	-7.83	Vertical
1906.00	-23.21	-13.00	-10.21	Vertical	1672.00	-24.19	-13.00	-11.19	Vertical
1964.00	-19.86	-13.00	-6.86	Vertical	1692.00	-17.67	-13.00	-4.67	Vertical
2394.00	-27.21	-13.00	-14.21	Vertical	1744.00	-26.27	-13.00	-13.27	Vertical
2654.00	-25.32	-13.00	-12.32	Vertical	1892.00	24.42	-13.00	/	Vertical
2852.00	-24.40	-13.00	-11.40	Vertical	1974.00	-20.70	-13.00	-7.70	Vertical
5745.00	-41.55	-13.00	-28.55	Vertical	4985.00	-42.33	-13.00	-29.33	Vertical
6000.00	-41.10	-13.00	-28.10	Vertical	5745.00	-41.84	-13.00	-28.84	Vertical
7245.00	-41.39	-13.00	-28.39	Vertical	6990.00	-42.33	-13.00	-29.33	Vertical
10005.00	-41.02	-13.00	-28.02	Vertical	7245.00	-43.48	-13.00	-30.48	Vertical
13545.00	-37.93	-13.00	-24.93	Vertical	9255.00	-43.79	-13.00	-30.79	Vertical
17775.00	-37.35	-13.00	-24.35	Vertical	10005.00	-40.23	-13.00	-27.23	Vertical
LTE B2 16QAM-20M-Mid					LTE B2 16QAM-20M-High				

LTE Band 4

Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1312.00	-31.90	-13.00	-18.90	Horizontal	1630.00	-31.28	-13.00	-18.28	Horizontal
1710.00	17.93	-13.00	/	Horizontal	1732.00	18.82	-13.00	/	Horizontal
2240.00	-27.37	-13.00	-14.37	Horizontal	1932.00	-29.34	-13.00	-16.34	Horizontal
2490.00	-26.09	-13.00	-13.09	Horizontal	2110.00	-28.91	-13.00	-15.91	Horizontal
2706.00	-25.19	-13.00	-12.19	Horizontal	2502.00	-25.13	-13.00	-12.13	Horizontal
2884.00	-24.86	-13.00	-11.86	Horizontal	2842.00	-24.58	-13.00	-11.58	Horizontal
4995.00	-44.29	-13.00	-31.29	Horizontal	4620.00	-39.67	-13.00	-26.67	Horizontal
6000.00	-41.99	-13.00	-28.99	Horizontal	4995.00	-37.83	-13.00	-24.83	Horizontal
7245.00	-41.68	-13.00	-28.68	Horizontal	7245.00	-42.12	-13.00	-29.12	Horizontal
7500.00	-42.68	-13.00	-29.68	Horizontal	8505.00	-43.27	-13.00	-30.27	Horizontal
8505.00	-42.85	-13.00	-29.85	Horizontal	10005.00	-40.29	-13.00	-27.29	Horizontal
10005.00	-40.97	-13.00	-27.97	Horizontal	12150.00	-39.02	-13.00	-26.02	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1300.00	-32.32	-13.00	-19.32	Vertical	1496.00	-29.51	-13.00	-16.51	Vertical
1710.00	23.44	-13.00	/	Vertical	1732.00	23.39	-13.00	/	Vertical
2112.00	-21.12	-13.00	-8.12	Vertical	2132.00	-22.21	-13.00	-9.21	Vertical
2496.00	-25.65	-13.00	-12.65	Vertical	2594.00	-26.22	-13.00	-13.22	Vertical
2756.00	-24.37	-13.00	-11.37	Vertical	2774.00	-25.00	-13.00	-12.00	Vertical
2940.00	-24.82	-13.00	-11.82	Vertical	2960.00	-25.06	-13.00	-12.06	Vertical
5745.00	-41.92	-13.00	-28.92	Vertical	4995.00	-43.67	-13.00	-30.67	Vertical
6000.00	-41.18	-13.00	-28.18	Vertical	6000.00	-43.27	-13.00	-30.27	Vertical
7245.00	-42.03	-13.00	-29.03	Vertical	7245.00	-40.90	-13.00	-27.90	Vertical
10005.00	-39.97	-13.00	-26.97	Vertical	8505.00	-43.97	-13.00	-30.97	Vertical
15615.00	-41.78	-13.00	-28.78	Vertical	10005.00	-41.04	-13.00	-28.04	Vertical
17190.00	-41.42	-13.00	-28.42	Vertical	10995.00	-44.23	-13.00	-31.23	Vertical
LTE B4 QPSK-1.4M-Low					LTE B4 QPSK-1.4M-Mid				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1718.00	-30.69	-13.00	-17.69	Horizontal	1522.00	-31.59	-13.00	-18.59	Horizontal
1754.00	18.17	-13.00	/	Horizontal	1578.00	-31.55	-13.00	-18.55	Horizontal
1834.00	-29.16	-13.00	-16.16	Horizontal	1710.00	17.58	-13.00	/	Horizontal
2370.00	-26.56	-13.00	-13.56	Horizontal	2184.00	-27.96	-13.00	-14.96	Horizontal
2476.00	-25.83	-13.00	-12.83	Horizontal	2570.00	-25.95	-13.00	-12.95	Horizontal
2750.00	-24.46	-13.00	-11.46	Horizontal	2738.00	-25.21	-13.00	-12.21	Horizontal
4995.00	-44.76	-13.00	-31.76	Horizontal	4245.00	-41.78	-13.00	-28.78	Horizontal
6990.00	-42.75	-13.00	-29.75	Horizontal	4995.00	-44.00	-13.00	-31.00	Horizontal
7245.00	-41.59	-13.00	-28.59	Horizontal	6000.00	-43.64	-13.00	-30.64	Horizontal
8505.00	-44.23	-13.00	-31.23	Horizontal	7245.00	-40.64	-13.00	-27.64	Horizontal
10005.00	-41.43	-13.00	-28.43	Horizontal	7500.00	-42.32	-13.00	-29.32	Horizontal
12495.00	-43.62	-13.00	-30.62	Horizontal	10005.00	-40.98	-13.00	-27.98	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1508.00	-32.16	-13.00	-19.16	Vertical	1342.00	-22.93	-13.00	-9.93	Vertical
1754.00	23.41	-13.00	/	Vertical	1482.00	-21.79	-13.00	-8.79	Vertical
2154.00	-20.47	-13.00	-7.47	Vertical	1554.00	-22.04	-13.00	-9.04	Vertical
2494.00	-25.82	-13.00	-12.82	Vertical	1610.00	-21.80	-13.00	-8.80	Vertical
2802.00	-24.61	-13.00	-11.61	Vertical	1710.00	23.22	-13.00	/	Vertical
2976.00	-25.00	-13.00	-12.00	Vertical	2110.00	-20.57	-13.00	-7.57	Vertical
5490.00	-43.11	-13.00	-30.11	Vertical	4995.00	-43.32	-13.00	-30.32	Vertical
5745.00	-42.72	-13.00	-29.72	Vertical	5745.00	-42.64	-13.00	-29.64	Vertical
7245.00	-42.48	-13.00	-29.48	Vertical	6000.00	-41.73	-13.00	-28.73	Vertical
8505.00	-43.47	-13.00	-30.47	Vertical	6990.00	-42.84	-13.00	-29.84	Vertical
10005.00	-39.26	-13.00	-26.26	Vertical	9255.00	-42.20	-13.00	-29.20	Vertical
15930.00	-38.69	-13.00	-25.69	Vertical	10005.00	-40.16	-13.00	-27.16	Vertical
LTE B4 QPSK-1.4M-High					LTE B4 16QAM-1.4M-Low				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1662.00	-30.65	-13.00	-17.65	Horizontal	1216.00	-32.71	-13.00	-19.71	Horizontal
1732.00	18.93	-13.00	/	Horizontal	1672.00	-30.97	-13.00	-17.97	Horizontal
2168.00	-27.72	-13.00	-14.72	Horizontal	1754.00	18.24	-13.00	/	Horizontal
2318.00	-27.20	-13.00	-14.20	Horizontal	2234.00	-27.92	-13.00	-14.92	Horizontal
2844.00	-24.40	-13.00	-11.40	Horizontal	2478.00	-26.21	-13.00	-13.21	Horizontal
2966.00	-24.62	-13.00	-11.62	Horizontal	2862.00	-24.99	-13.00	-11.99	Horizontal
4500.00	-48.69	-13.00	-35.69	Horizontal	3855.00	-45.60	-13.00	-32.60	Horizontal
4995.00	-44.39	-13.00	-31.39	Horizontal	4995.00	-42.22	-13.00	-29.22	Horizontal
6000.00	-44.09	-13.00	-31.09	Horizontal	6000.00	-42.98	-13.00	-29.98	Horizontal
7245.00	-41.72	-13.00	-28.72	Horizontal	7245.00	-40.52	-13.00	-27.52	Horizontal
8490.00	-43.93	-13.00	-30.93	Horizontal	10005.00	-41.22	-13.00	-28.22	Horizontal
10005.00	-41.13	-13.00	-28.13	Horizontal	15450.00	-42.37	-13.00	-29.37	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1608.00	-31.10	-13.00	-18.10	Vertical	1368.00	-28.28	-13.00	-15.28	Vertical
1732.00	25.25	-13.00	/	Vertical	1406.00	-26.64	-13.00	-13.64	Vertical
2132.00	-22.57	-13.00	-9.57	Vertical	1754.00	23.75	-13.00	/	Vertical
2406.00	-26.51	-13.00	-13.51	Vertical	1958.00	-24.76	-13.00	-11.76	Vertical
2686.00	-25.95	-13.00	-12.95	Vertical	2154.00	-21.25	-13.00	-8.25	Vertical
2882.00	-24.91	-13.00	-11.91	Vertical	2770.00	-24.97	-13.00	-11.97	Vertical
4995.00	-41.86	-13.00	-28.86	Vertical	4995.00	-43.40	-13.00	-30.40	Vertical
6000.00	-43.45	-13.00	-30.45	Vertical	5745.00	-42.61	-13.00	-29.61	Vertical
7245.00	-41.36	-13.00	-28.36	Vertical	6000.00	-42.29	-13.00	-29.29	Vertical
8505.00	-43.11	-13.00	-30.11	Vertical	7245.00	-42.47	-13.00	-29.47	Vertical
10005.00	-40.62	-13.00	-27.62	Vertical	8505.00	-43.97	-13.00	-30.97	Vertical
16005.00	-44.23	-13.00	-31.23	Vertical	10005.00	-40.17	-13.00	-27.17	Vertical
LTE B4 16QAM-1.4M-Mid					LTE B4 16QAM-1.4M-High				

Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1468.00	-31.75	-13.00	-18.75	Horizontal	1354.00	-32.31	-13.00	-19.31	Horizontal
1710.00	14.94	-13.00	/	Horizontal	1724.00	17.57	-13.00	/	Horizontal
1730.00	-27.05	-13.00	-14.05	Horizontal	1742.00	-19.20	-13.00	-6.20	Horizontal
2120.00	-25.18	-13.00	-12.18	Horizontal	2126.00	-26.81	-13.00	-13.81	Horizontal
2496.00	-26.04	-13.00	-13.04	Horizontal	2484.00	-26.50	-13.00	-13.50	Horizontal
2698.00	-24.86	-13.00	-11.86	Horizontal	2840.00	-24.89	-13.00	-11.89	Horizontal
4995.00	-43.80	-13.00	-30.80	Horizontal	4995.00	-42.93	-13.00	-29.93	Horizontal
6000.00	-43.28	-13.00	-30.28	Horizontal	6000.00	-43.01	-13.00	-30.01	Horizontal
7245.00	-41.49	-13.00	-28.49	Horizontal	6495.00	-45.20	-13.00	-32.20	Horizontal
8505.00	-42.87	-13.00	-29.87	Horizontal	7245.00	-41.55	-13.00	-28.55	Horizontal
10005.00	-39.98	-13.00	-26.98	Horizontal	8070.00	-43.97	-13.00	-30.97	Horizontal
17085.00	-42.87	-13.00	-29.87	Horizontal	10005.00	-40.52	-13.00	-27.52	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1710.00	20.62	-13.00	/	Vertical	1724.00	23.01	-13.00	/	Vertical
1728.00	-11.84	-13.00	/	Vertical	1742.00	-14.25	-13.00	-1.25	Vertical
1746.00	-26.05	-13.00	-13.05	Vertical	2138.00	-21.88	-13.00	-8.88	Vertical
2122.00	-21.15	-13.00	-8.15	Vertical	2466.00	-25.61	-13.00	-12.61	Vertical
2844.00	-24.57	-13.00	-11.57	Vertical	2854.00	-24.63	-13.00	-11.63	Vertical
2938.00	-24.33	-13.00	-11.33	Vertical	2982.00	-23.65	-13.00	-10.65	Vertical
4995.00	-43.16	-13.00	-30.16	Vertical	4995.00	-44.14	-13.00	-31.14	Vertical
5745.00	-40.03	-13.00	-27.03	Vertical	5490.00	-43.88	-13.00	-30.88	Vertical
6000.00	-42.03	-13.00	-29.03	Vertical	5745.00	-42.23	-13.00	-29.23	Vertical
6495.00	-43.29	-13.00	-30.29	Vertical	6000.00	-41.76	-13.00	-28.76	Vertical
7245.00	-42.52	-13.00	-29.52	Vertical	7245.00	-41.89	-13.00	-28.89	Vertical
10005.00	-39.90	-13.00	-26.90	Vertical	10005.00	-40.75	-13.00	-27.75	Vertical
LTE B4 QPSK-20M-Low					LTE B4 QPSK-20M-Mid				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1736.00	17.61	-13.00	/	Horizontal	1650.00	-30.37	-13.00	-17.37	Horizontal
1754.00	-18.02	-13.00	-5.02	Horizontal	1710.00	18.40	-13.00	/	Horizontal
2146.00	-27.07	-13.00	-14.07	Horizontal	1728.00	-23.42	-13.00	-10.42	Horizontal
2580.00	-25.90	-13.00	-12.90	Horizontal	2120.00	-26.98	-13.00	-13.98	Horizontal
2658.00	-24.77	-13.00	-11.77	Horizontal	2504.00	-26.11	-13.00	-13.11	Horizontal
2796.00	-24.81	-13.00	-11.81	Horizontal	2832.00	-24.80	-13.00	-11.80	Horizontal
4995.00	-43.09	-13.00	-30.09	Horizontal	4995.00	-43.16	-13.00	-30.16	Horizontal
6000.00	-43.00	-13.00	-30.00	Horizontal	6000.00	-44.20	-13.00	-31.20	Horizontal
7245.00	-41.15	-13.00	-28.15	Horizontal	6990.00	-44.70	-13.00	-31.70	Horizontal
7500.00	-42.81	-13.00	-29.81	Horizontal	7245.00	-42.75	-13.00	-29.75	Horizontal
8505.00	-41.22	-13.00	-28.22	Horizontal	8505.00	-43.61	-13.00	-30.61	Horizontal
10005.00	-40.76	-13.00	-27.76	Horizontal	10005.00	-39.92	-13.00	-26.92	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1718.00	-30.11	-13.00	-17.11	Vertical	1710.00	18.49	-13.00	/	Vertical
1736.00	23.44	-13.00	/	Vertical	1720.00	-23.44	-13.00	-10.44	Vertical
1754.00	-18.89	-13.00	-5.89	Vertical	2178.00	-27.07	-13.00	-14.07	Vertical
1772.00	-24.56	-13.00	-11.56	Vertical	2558.00	-25.83	-13.00	-12.83	Vertical
2152.00	-21.63	-13.00	-8.63	Vertical	2728.00	-25.34	-13.00	-12.34	Vertical
2858.00	-24.62	-13.00	-11.62	Vertical	2882.00	-24.41	-13.00	-11.41	Vertical
4995.00	-44.00	-13.00	-31.00	Vertical	3990.00	-47.10	-13.00	-34.10	Vertical
5745.00	-42.24	-13.00	-29.24	Vertical	4995.00	-43.32	-13.00	-30.32	Vertical
6000.00	-42.27	-13.00	-29.27	Vertical	5745.00	-41.85	-13.00	-28.85	Vertical
7005.00	-42.60	-13.00	-29.60	Vertical	6990.00	-40.72	-13.00	-27.72	Vertical
7245.00	-41.59	-13.00	-28.59	Vertical	7245.00	-41.41	-13.00	-28.41	Vertical
10005.00	-39.41	-13.00	-26.41	Vertical	10005.00	-39.73	-13.00	-26.73	Vertical
LTE B4 QPSK-20M-High					LTE B4 16QAM-20M-Low				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1706.00	-29.44	-13.00	-16.44	Horizontal	1630.00	-30.73	-13.00	-17.73	Horizontal
1724.00	20.24	-13.00	/	Horizontal	1736.00	17.25	-13.00	/	Horizontal
1740.00	-14.92	-13.00	-1.92	Horizontal	2148.00	-27.47	-13.00	-14.47	Horizontal
2566.00	-25.26	-13.00	-12.26	Horizontal	2350.00	-26.94	-13.00	-13.94	Horizontal
2760.00	-24.47	-13.00	-11.47	Horizontal	2486.00	-25.54	-13.00	-12.54	Horizontal
2860.00	-24.50	-13.00	-11.50	Horizontal	2830.00	-24.58	-13.00	-11.58	Horizontal
4995.00	-41.95	-13.00	-28.95	Horizontal	4995.00	-44.24	-13.00	-31.24	Horizontal
6000.00	-43.50	-13.00	-30.50	Horizontal	6000.00	-43.44	-13.00	-30.44	Horizontal
6495.00	-44.04	-13.00	-31.04	Horizontal	6990.00	-43.96	-13.00	-30.96	Horizontal
7245.00	-40.96	-13.00	-27.96	Horizontal	7245.00	-42.75	-13.00	-29.75	Horizontal
8505.00	-42.98	-13.00	-29.98	Horizontal	10005.00	-40.80	-13.00	-27.80	Horizontal
10005.00	-39.91	-13.00	-26.91	Horizontal	16005.00	-43.53	-13.00	-30.53	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
1706.00	-30.02	-13.00	-17.02	Vertical	1736.00	23.19	-13.00	/	Vertical
1724.00	19.77	-13.00	/	Vertical	1906.00	-23.21	-13.00	-10.21	Vertical
1742.00	-15.29	-13.00	-2.29	Vertical	1964.00	-19.86	-13.00	-6.86	Vertical
2142.00	-27.00	-13.00	-14.00	Vertical	2394.00	-27.21	-13.00	-14.21	Vertical
2632.00	-25.02	-13.00	-12.02	Vertical	2654.00	-25.32	-13.00	-12.32	Vertical
2830.00	-23.97	-13.00	-10.97	Vertical	2852.00	-24.40	-13.00	-11.40	Vertical
4995.00	-44.21	-13.00	-31.21	Vertical	4995.00	-43.57	-13.00	-30.57	Vertical
5745.00	-42.46	-13.00	-29.46	Vertical	5745.00	-42.36	-13.00	-29.36	Vertical
6750.00	-41.87	-13.00	-28.87	Vertical	6000.00	-40.70	-13.00	-27.70	Vertical
7500.00	-43.17	-13.00	-30.17	Vertical	6990.00	-42.61	-13.00	-29.61	Vertical
8505.00	-44.17	-13.00	-31.17	Vertical	8505.00	-43.00	-13.00	-30.00	Vertical
10005.00	-38.77	-13.00	-25.77	Vertical	10005.00	-39.70	-13.00	-26.70	Vertical
LTE B4 16QAM-20M-Mid					LTE B4 16QAM-20M-High				

LTE Band 5

Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4996.00	-45.96	-13.00	-32.96	Horizontal	4177.00	-48.00	-13.00	-35.00	Horizontal
5500.00	-44.81	-13.00	-31.81	Horizontal	4996.00	-47.90	-13.00	-34.90	Horizontal
6004.00	-42.52	-13.00	-29.52	Horizontal	5500.00	-44.55	-13.00	-31.55	Horizontal
7003.00	-43.76	-13.00	-30.76	Horizontal	6004.00	-44.24	-13.00	-31.24	Horizontal
7255.00	-45.66	-13.00	-32.66	Horizontal	7003.00	-44.76	-13.00	-31.76	Horizontal
9001.00	-47.77	-13.00	-34.77	Horizontal	7498.00	-45.71	-13.00	-32.71	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4996.00	-48.03	-13.00	-35.03	Vertical	4177.00	-47.89	-13.00	-34.89	Vertical
5500.00	-44.43	-13.00	-31.43	Vertical	5500.00	-44.98	-13.00	-31.98	Vertical
6004.00	-43.87	-13.00	-30.87	Vertical	6004.00	-44.04	-13.00	-31.04	Vertical
7003.00	-42.26	-13.00	-29.26	Vertical	7003.00	-44.86	-13.00	-31.86	Vertical
7255.00	-45.25	-13.00	-32.25	Vertical	7255.00	-44.45	-13.00	-31.45	Vertical
7498.00	-45.74	-13.00	-32.74	Vertical	7498.00	-45.68	-13.00	-32.68	Vertical
LTE B5 QPSK-1.4M-Low					LTE B5 QPSK-1.4M-Mid				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4240.00	-45.89	-13.00	-32.89	Horizontal	5500.00	-45.45	-13.00	-32.45	Horizontal
5500.00	-44.85	-13.00	-31.85	Horizontal	5752.00	-46.03	-13.00	-33.03	Horizontal
6004.00	-43.39	-13.00	-30.39	Horizontal	6004.00	-43.25	-13.00	-30.25	Horizontal
7003.00	-43.42	-13.00	-30.42	Horizontal	7003.00	-43.78	-13.00	-30.78	Horizontal
7255.00	-45.66	-13.00	-32.66	Horizontal	7255.00	-44.90	-13.00	-31.90	Horizontal
7498.00	-45.79	-13.00	-32.79	Horizontal	7498.00	-44.54	-13.00	-31.54	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4240.00	-44.91	-13.00	-31.91	Vertical	4996.00	-47.60	-13.00	-34.60	Vertical
5500.00	-44.78	-13.00	-31.78	Vertical	5500.00	-45.32	-13.00	-32.32	Vertical
5752.00	-44.83	-13.00	-31.83	Vertical	5752.00	-45.96	-13.00	-32.96	Vertical
6004.00	-43.76	-13.00	-30.76	Vertical	6004.00	-43.66	-13.00	-30.66	Vertical
7003.00	-44.18	-13.00	-31.18	Vertical	7003.00	-43.61	-13.00	-30.61	Vertical
7255.00	-45.18	-13.00	-32.18	Vertical	7255.00	-45.29	-13.00	-32.29	Vertical
LTE B5 QPSK-1.4M-High					LTE B5 16QAM-1.4M-Low				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4996.00	-46.55	-13.00	-33.55	Horizontal	4240.00	-47.38	-13.00	-34.38	Horizontal
5500.00	-44.97	-13.00	-31.97	Horizontal	5500.00	-44.71	-13.00	-31.71	Horizontal
5752.00	-45.30	-13.00	-32.30	Horizontal	5752.00	-45.93	-13.00	-32.93	Horizontal
6004.00	-44.07	-13.00	-31.07	Horizontal	6004.00	-44.15	-13.00	-31.15	Horizontal
7003.00	-42.67	-13.00	-29.67	Horizontal	7003.00	-43.51	-13.00	-30.51	Horizontal
7255.00	-45.24	-13.00	-32.24	Horizontal	7255.00	-45.67	-13.00	-32.67	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4177.00	-47.17	-13.00	-34.17	Vertical	4240.00	-47.07	-13.00	-34.07	Vertical
5500.00	-45.05	-13.00	-32.05	Vertical	5500.00	-44.10	-13.00	-31.10	Vertical
5752.00	-45.51	-13.00	-32.51	Vertical	5752.00	-46.78	-13.00	-33.78	Vertical
6004.00	-43.99	-13.00	-30.99	Vertical	6004.00	-43.89	-13.00	-30.89	Vertical
7003.00	-44.16	-13.00	-31.16	Vertical	7003.00	-44.11	-13.00	-31.11	Vertical
7255.00	-44.83	-13.00	-31.83	Vertical	7255.00	-45.67	-13.00	-32.67	Vertical
LTE B5 16QAM-1.4M-Mid					LTE B5 16QAM-1.4M-High				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4996.00	-47.18	-13.00	-34.18	Horizontal	2467.00	-51.23	-13.00	-38.23	Horizontal
5500.00	-44.98	-13.00	-31.98	Horizontal	5500.00	-44.64	-13.00	-31.64	Horizontal
5752.00	-45.89	-13.00	-32.89	Horizontal	6004.00	-43.49	-13.00	-30.49	Horizontal
6004.00	-42.86	-13.00	-29.86	Horizontal	7003.00	-43.70	-13.00	-30.70	Horizontal
7003.00	-44.39	-13.00	-31.39	Horizontal	7255.00	-44.67	-13.00	-31.67	Horizontal
7255.00	-44.66	-13.00	-31.66	Horizontal	7498.00	-45.16	-13.00	-32.16	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
2467.00	-44.54	-13.00	-31.54	Vertical	4996.00	-46.84	-13.00	-33.84	Vertical
5500.00	-45.04	-13.00	-32.04	Vertical	5500.00	-44.88	-13.00	-31.88	Vertical
5752.00	-46.42	-13.00	-33.42	Vertical	5752.00	-45.79	-13.00	-32.79	Vertical
6004.00	-44.17	-13.00	-31.17	Vertical	6004.00	-43.94	-13.00	-30.94	Vertical
7003.00	-44.29	-13.00	-31.29	Vertical	7003.00	-44.10	-13.00	-31.10	Vertical
7255.00	-45.19	-13.00	-32.19	Vertical	7255.00	-45.76	-13.00	-32.76	Vertical
LTE B5 QPSK-10M-Low					LTE B5 QPSK-10M-Mid				
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4996.00	-47.18	-13.00	-34.18	Horizontal	4996.00	-46.44	-13.00	-33.44	Horizontal
5500.00	-44.98	-13.00	-31.98	Horizontal	5500.00	-44.97	-13.00	-31.97	Horizontal
5752.00	-45.89	-13.00	-32.89	Horizontal	5752.00	-44.31	-13.00	-31.31	Horizontal
6004.00	-42.86	-13.00	-29.86	Horizontal	6004.00	-43.67	-13.00	-30.67	Horizontal
7003.00	-44.39	-13.00	-31.39	Horizontal	7003.00	-44.48	-13.00	-31.48	Horizontal
7255.00	-44.66	-13.00	-31.66	Horizontal	7255.00	-45.25	-13.00	-32.25	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
5500.00	-44.89	-13.00	-31.89	Vertical	5500.00	-45.15	-13.00	-32.15	Vertical
5752.00	-46.08	-13.00	-33.08	Vertical	5752.00	-46.22	-13.00	-33.22	Vertical
6004.00	-43.45	-13.00	-30.45	Vertical	6004.00	-42.68	-13.00	-29.68	Vertical
7003.00	-42.95	-13.00	-29.95	Vertical	7003.00	-44.34	-13.00	-31.34	Vertical
7255.00	-43.85	-13.00	-30.85	Vertical	7255.00	-44.06	-13.00	-31.06	Vertical
7498.00	-46.12	-13.00	-33.12	Vertical	7498.00	-45.37	-13.00	-32.37	Vertical
LTE B5 QPSK-10M-High					LTE B5 16QAM-10M-Low				

Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4996.00	-46.23	-13.00	-33.23	Horizontal	4996.00	-46.36	-13.00	-33.36	Horizontal
5500.00	-44.42	-13.00	-31.42	Horizontal	5500.00	-44.52	-13.00	-31.52	Horizontal
6004.00	-43.66	-13.00	-30.66	Horizontal	6004.00	-42.90	-13.00	-29.90	Horizontal
7003.00	-44.27	-13.00	-31.27	Horizontal	7003.00	-44.11	-13.00	-31.11	Horizontal
7255.00	-45.23	-13.00	-32.23	Horizontal	7255.00	-44.37	-13.00	-31.37	Horizontal
7498.00	-45.40	-13.00	-32.40	Horizontal	7498.00	-45.14	-13.00	-32.14	Horizontal
Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization	Frequency (MHz)	Level (dB)	Limit Line (dB)	Over Limit (dB)	Polarization
4996.00	-46.18	-13.00	-33.18	Vertical	4996.00	-46.13	-13.00	-33.13	Vertical
5500.00	-44.25	-13.00	-31.25	Vertical	5500.00	-44.20	-13.00	-31.20	Vertical
5752.00	-45.11	-13.00	-32.11	Vertical	6004.00	-43.97	-13.00	-30.97	Vertical
6004.00	-44.60	-13.00	-31.60	Vertical	7003.00	-42.65	-13.00	-29.65	Vertical
7003.00	-44.39	-13.00	-31.39	Vertical	7255.00	-44.29	-13.00	-31.29	Vertical
7498.00	-45.37	-13.00	-32.37	Vertical	7498.00	-45.90	-13.00	-32.90	Vertical
LTE B5 16QAM-10M-Mid					LTE B5 16QAM-10M-High				