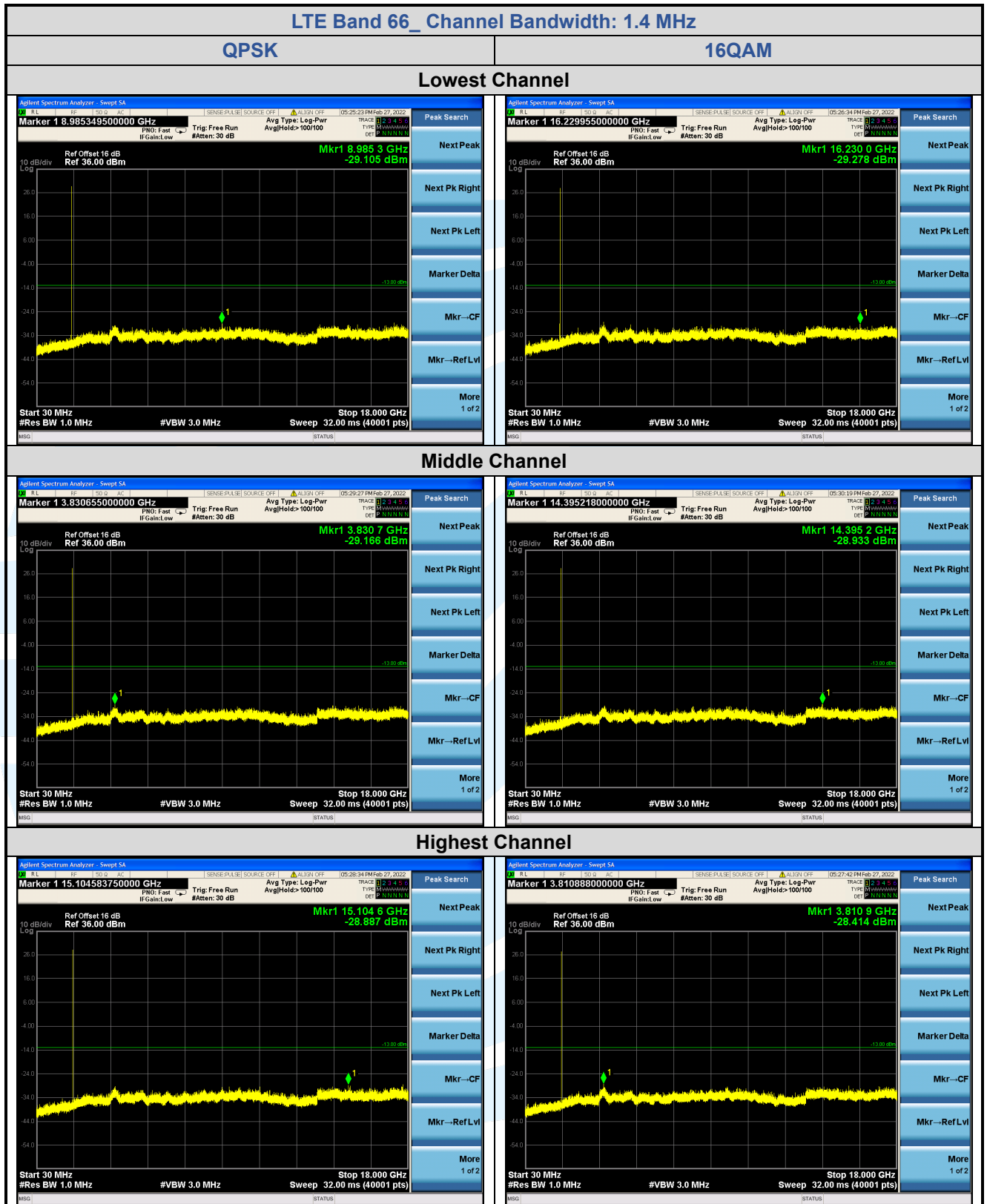
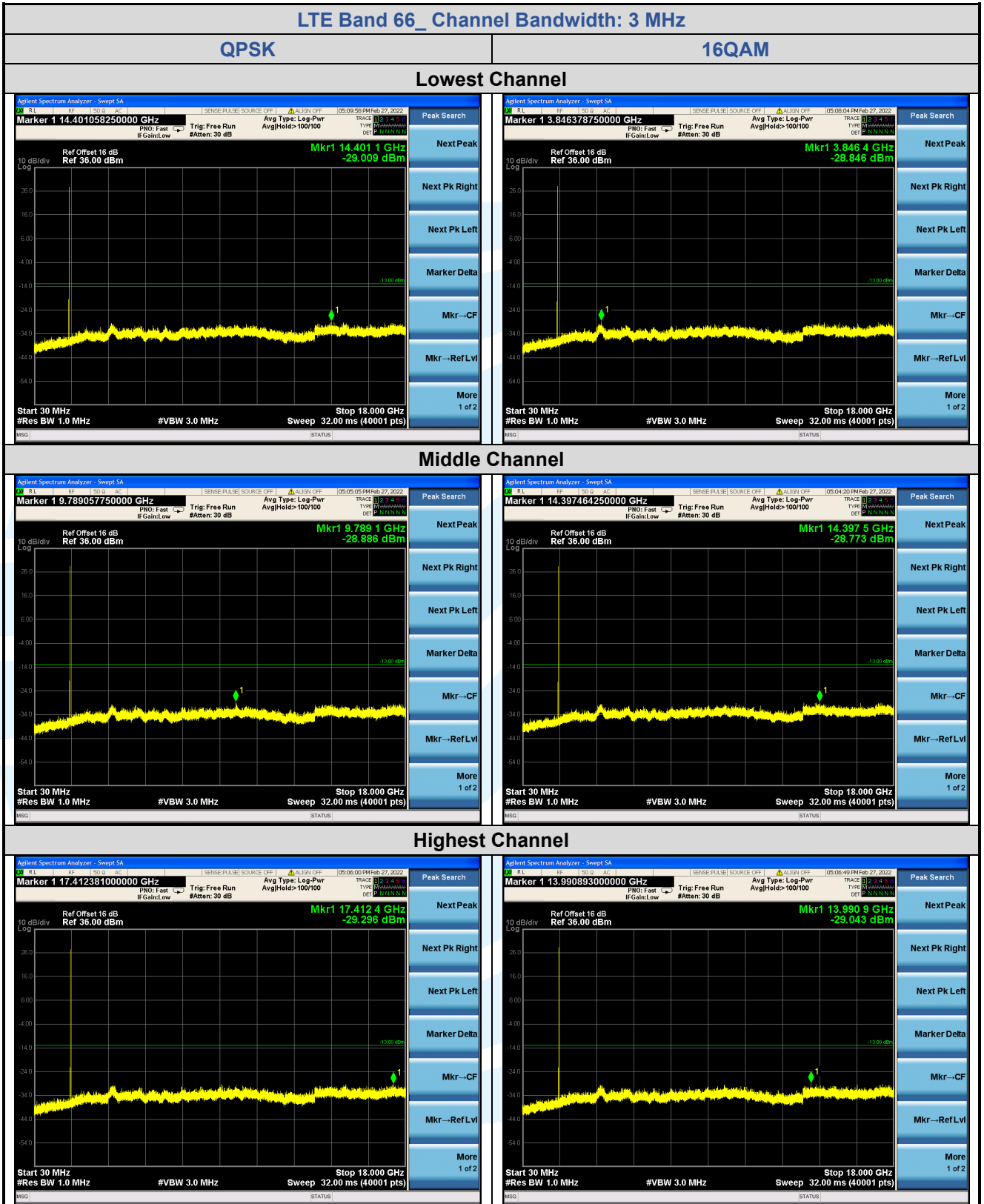


5.7.7 LTE Band 66





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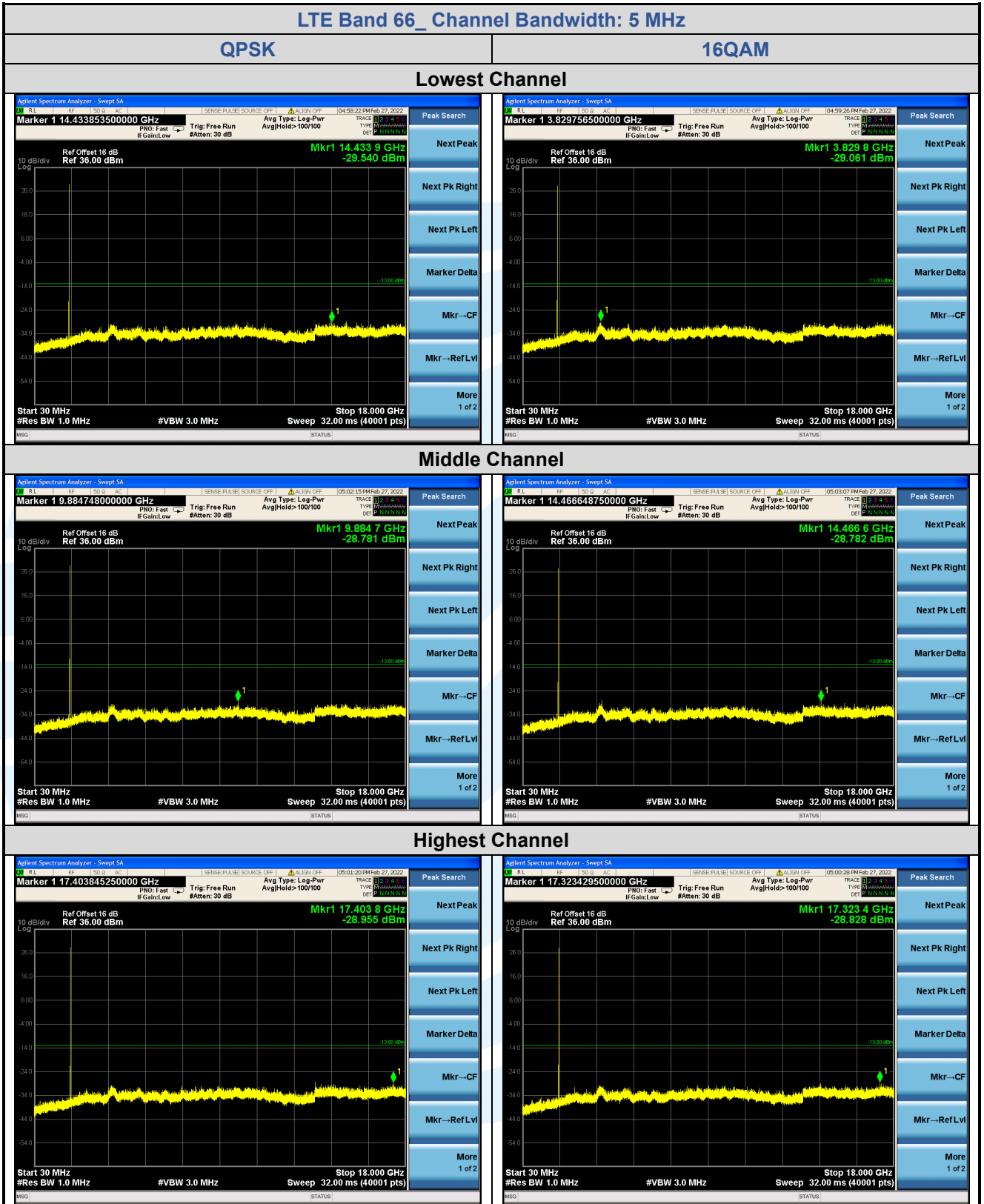
Tel: +86-755-28230888

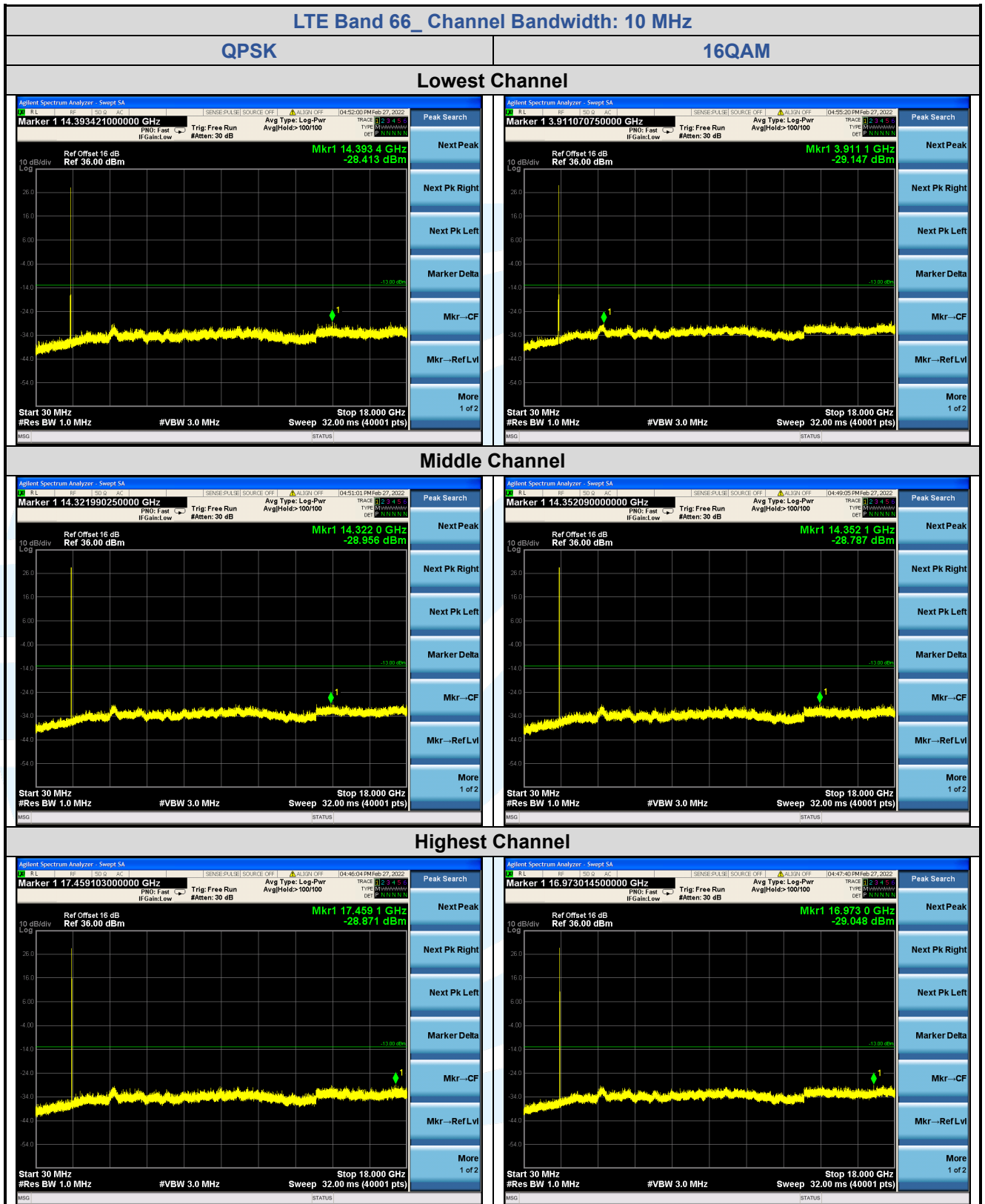
Fax: +86-755-28230886

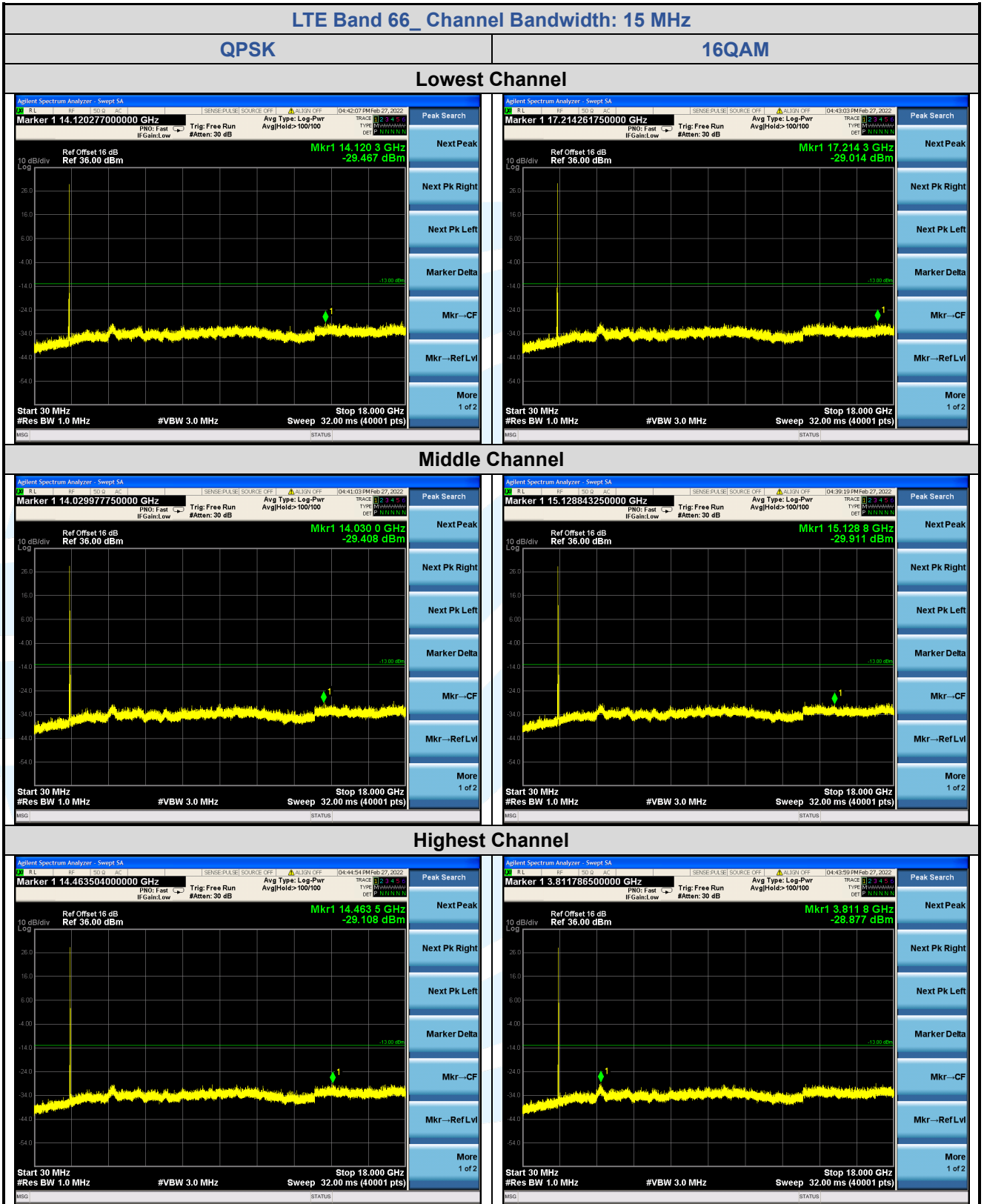
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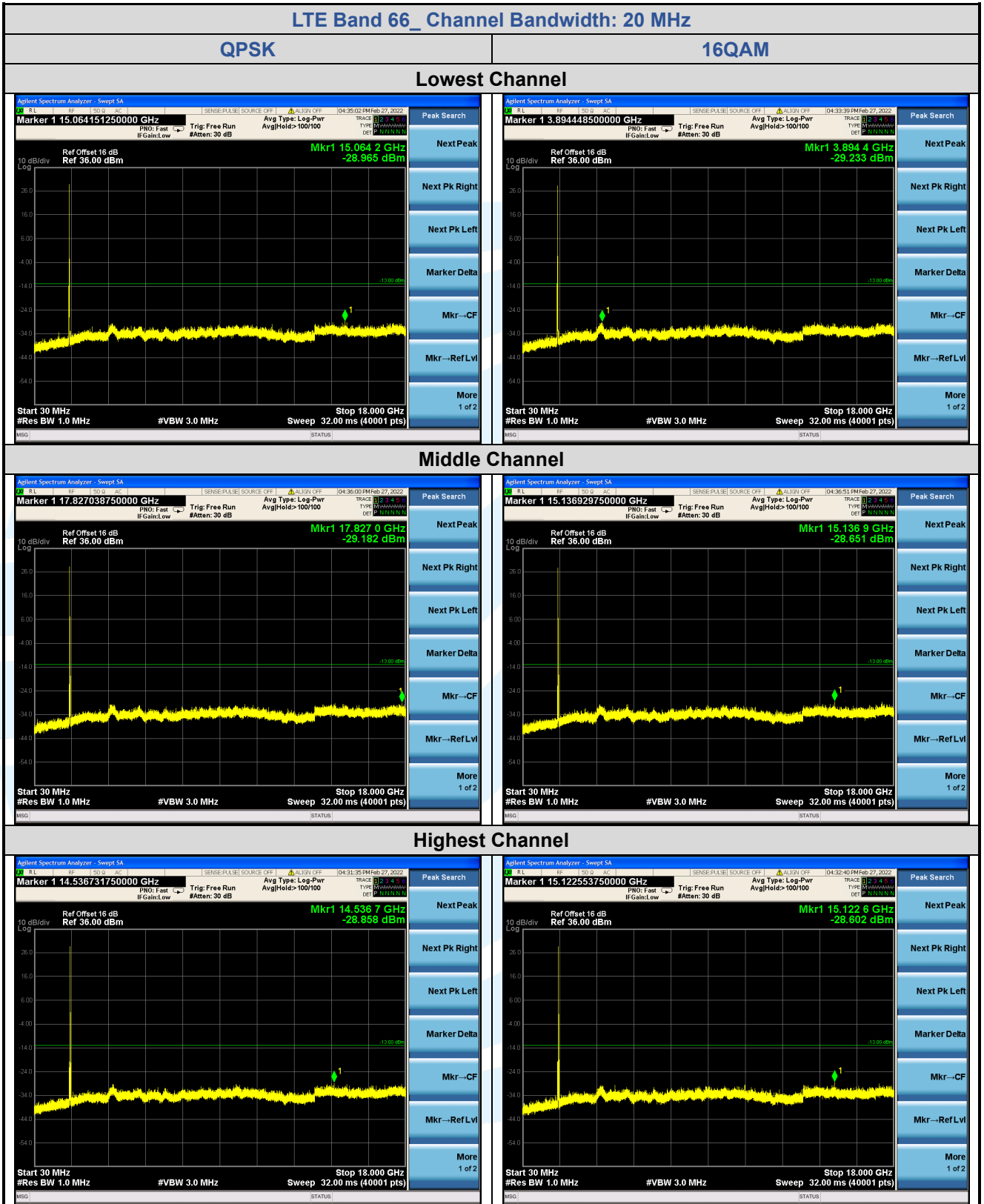
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5.8 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: LTE Band 2: FCC 47 CFR Part 24.238(a)
 LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)
 LTE Band 5: FCC 47 CFR Part 22.917(a)
 LTE Band 7: FCC 47 CFR Part 27.53(m)(4)
 LTE Band 12 & Band 17: FCC 47 CFR Part 27.53(g)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009 MHz-30 MHz	Peak	10 kHz	30 KHz	Peak
30 MHz-1 GHz	Quasi-peak	100 kHz	300 KHz	Peak
Above 1 GHz	Peak	1 MHz	3 MHz	Peak

Limits:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g):

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. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(m)(4):

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 $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

Test Setup: Refer to section 4.2.1 for details.

Test Procedures: KDB 971168 D01v03r01 Section 7

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

5.8.1 LTE Band 2

LTE Band 2_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	31.959	-75.53	4.86	-70.67	-13.00	-57.67	Horizontal
2	771.047	-81.50	11.72	-69.78	-13.00	-56.78	Horizontal
3	899.958	-81.86	13.88	-67.98	-13.00	-54.98	Horizontal
4	3720.000	-47.03	7.65	-39.38	-13.00	-26.38	Horizontal
5	5580.000	-65.49	11.70	-53.79	-13.00	-40.79	Horizontal
6	32.640	-78.39	4.81	-73.58	-13.00	-60.58	Vertical
7	804.252	-80.94	12.19	-68.75	-13.00	-55.75	Vertical
8	965.474	-82.09	14.34	-67.75	-13.00	-54.75	Vertical
9	3720.000	-54.89	7.65	-47.24	-13.00	-34.24	Vertical
10	5580.000	-63.10	11.70	-51.40	-13.00	-38.40	Vertical
Middle Channel							
1	32.870	-75.91	4.78	-71.13	-13.00	-58.13	Horizontal
2	718.725	-81.19	11.33	-69.86	-13.00	-56.86	Horizontal
3	850.760	-81.82	12.97	-68.85	-13.00	-55.85	Horizontal
4	3760.000	-49.99	7.79	-42.20	-13.00	-29.20	Horizontal
5	5640.000	-64.00	11.56	-52.44	-13.00	-39.44	Horizontal
6	31.073	-78.68	5.02	-73.66	-13.00	-60.66	Vertical
7	376.523	-78.77	4.33	-74.44	-13.00	-61.44	Vertical
8	502.247	-79.83	6.88	-72.95	-13.00	-59.95	Vertical
9	3760.000	-53.92	7.79	-46.13	-13.00	-33.13	Vertical
10	5640.000	-64.10	11.56	-52.54	-13.00	-39.54	Vertical
Highest Channel							
1	32.411	-75.11	4.82	-70.29	-13.00	-57.29	Horizontal
2	43.845	-74.63	-0.81	-75.44	-13.00	-62.44	Horizontal
3	754.963	-79.93	11.30	-68.63	-13.00	-55.63	Horizontal
4	3800.000	-52.70	7.93	-44.77	-13.00	-31.77	Horizontal
5	5700.000	-64.50	11.43	-53.07	-13.00	-40.07	Horizontal
6	33.101	-75.94	4.76	-71.18	-13.00	-58.18	Vertical
7	728.897	-80.36	11.48	-68.88	-13.00	-55.88	Vertical
8	893.656	-81.32	13.85	-67.47	-13.00	-54.47	Vertical
9	3800.000	-55.00	7.93	-47.07	-13.00	-34.07	Vertical
10	5700.000	-63.77	11.43	-52.34	-13.00	-39.34	Vertical

5.8.2 LTE Band 4

LTE Band 4_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	32.640	-76.75	4.81	-71.94	-13.00	-58.94	Horizontal
2	45.733	-75.84	-2.11	-77.95	-13.00	-64.95	Horizontal
3	833.013	-80.50	12.55	-67.95	-13.00	-54.95	Horizontal
4	3440.000	-65.88	6.53	-59.35	-13.00	-46.35	Horizontal
5	5160.000	-64.13	10.10	-54.03	-13.00	-41.03	Horizontal
6	32.640	-78.92	4.81	-74.11	-13.00	-61.11	Vertical
7	893.656	-81.94	13.85	-68.09	-13.00	-55.09	Vertical
8	979.139	-81.83	14.44	-67.39	-13.00	-54.39	Vertical
9	3440.000	-65.63	6.53	-59.10	-13.00	-46.10	Vertical
10	5160.000	-64.83	10.10	-54.73	-13.00	-41.73	Vertical
Middle Channel							
1	32.870	-76.62	4.78	-71.84	-13.00	-58.84	Horizontal
2	43.845	-76.05	-0.81	-76.86	-13.00	-63.86	Horizontal
3	925.613	-82.00	14.06	-67.94	-13.00	-54.94	Horizontal
4	3465.000	-66.20	6.62	-59.58	-13.00	-59.58	Horizontal
5	5197.500	-65.04	10.25	-54.79	-13.00	-54.79	Horizontal
6	31.513	-76.63	4.94	-71.69	-13.00	-58.69	Vertical
7	42.630	-77.60	0.15	-77.45	-13.00	-64.45	Vertical
8	972.283	-82.47	14.39	-68.08	-13.00	-55.08	Vertical
9	3465.000	-65.46	6.62	-58.84	-13.00	-58.84	Vertical
10	5197.500	-64.15	10.25	-53.90	-13.00	-53.90	Vertical
Highest Channel							
1	34.045	-76.23	4.64	-71.59	-13.00	-58.59	Horizontal
2	45.095	-73.62	-1.73	-75.35	-13.00	-62.35	Horizontal
3	925.613	-82.01	14.06	-67.95	-13.00	-54.95	Horizontal
4	3490.000	-64.07	6.71	-57.36	-13.00	-57.36	Horizontal
5	5235.000	-66.36	10.44	-55.92	-13.00	-55.92	Horizontal
6	34.045	-77.75	4.64	-73.11	-13.00	-60.11	Vertical
7	42.630	-77.93	0.15	-77.78	-13.00	-64.78	Vertical
8	945.334	-82.24	14.20	-68.04	-13.00	-55.04	Vertical
9	3490.000	-64.05	6.71	-57.34	-13.00	-57.34	Vertical
10	5235.000	-66.81	10.44	-56.37	-13.00	-56.37	Vertical

5.8.3 LTE Band 5

LTE Band 5_ 10 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	36.524	-90.44	32.51	-57.93	-13.00	-44.93	Horizontal
2	512.948	-89.05	36.48	-52.57	-13.00	-39.57	Horizontal
3	665.261	-88.25	39.81	-48.44	-13.00	-35.44	Horizontal
4	2487.000	-47.29	3.64	-43.65	-13.00	-43.65	Horizontal
5	4145.000	-41.74	8.85	-32.89	-13.00	-32.89	Horizontal
6	32.411	-91.31	33.63	-57.68	-13.00	-44.68	Vertical
7	384.545	-89.79	33.32	-56.47	-13.00	-43.47	Vertical
8	684.226	-88.91	40.01	-48.90	-13.00	-35.90	Vertical
9	2487.000	-49.29	3.64	-45.65	-13.00	-45.65	Vertical
10	4145.000	-44.09	8.85	-35.24	-13.00	-35.24	Vertical
Middle Channel							
1	31.513	-90.47	33.75	-56.72	-13.00	-43.72	Horizontal
2	185.163	-88.47	27.49	-60.98	-13.00	-47.98	Horizontal
3	760.287	-88.09	40.79	-47.30	-13.00	-34.30	Horizontal
4	2509.500	-41.20	3.71	-37.49	-13.00	-24.49	Horizontal
5	4182.500	-43.27	8.91	-34.36	-13.00	-21.36	Horizontal
6	34.770	-93.00	33.97	-59.03	-13.00	-46.03	Vertical
7	409.651	-88.99	33.91	-55.08	-13.00	-42.08	Vertical
8	804.252	-87.36	41.36	-46.00	-13.00	-33.00	Vertical
9	2509.500	-46.41	3.71	-42.70	-13.00	-29.70	Vertical
10	4182.500	-42.76	8.91	-33.85	-13.00	-20.85	Vertical
Highest Channel							
1	412.539	-88.71	33.96	-54.75	-13.00	-41.75	Horizontal
2	554.171	-89.25	37.23	-52.02	-13.00	-39.02	Horizontal
3	689.051	-87.09	40.21	-46.88	-13.00	-33.88	Horizontal
4	2532.000	-47.73	3.76	-43.97	-13.00	-30.97	Horizontal
5	4220.000	-46.32	8.97	-37.35	-13.00	-24.35	Horizontal
6	509.356	-89.68	36.46	-53.22	-13.00	-40.22	Vertical
7	739.214	-88.49	40.89	-47.60	-13.00	-34.60	Vertical
8	809.924	-88.07	41.38	-46.69	-13.00	-33.69	Vertical
9	2532.000	-50.79	3.76	-47.03	-13.00	-34.03	Vertical
10	4220.000	-44.67	8.97	-35.70	-13.00	-22.70	Vertical

5.8.4 LTE Band 7

LTE Band 7_20 MHz_QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	33.570	-76.40	4.68	-71.72	-25.00	-46.72	Horizontal
2	43.845	-73.78	-0.81	-74.59	-25.00	-49.59	Horizontal
3	972.283	-82.04	14.39	-67.65	-25.00	-42.65	Horizontal
4	5020.000	-60.41	9.58	-50.83	-25.00	-25.83	Horizontal
5	7530.000	-62.47	13.67	-48.80	-25.00	-23.80	Horizontal
6	32.411	-77.37	4.82	-72.55	-25.00	-47.55	Vertical
7	43.845	-77.08	-0.81	-77.89	-25.00	-52.89	Vertical
8	919.132	-81.69	14.01	-67.68	-25.00	-42.68	Vertical
9	5020.000	-60.58	9.58	-51.00	-25.00	-26.00	Vertical
10	7530.000	-62.91	13.67	-49.24	-25.00	-24.24	Vertical
Middle Channel							
1	34.285	-78.59	4.81	-73.78	-25.00	-48.78	Horizontal
2	47.703	-72.58	-3.45	-76.03	-25.00	-51.03	Horizontal
3	1000.000	-82.23	14.99	-67.24	-25.00	-42.24	Horizontal
4	5070.000	-58.28	9.77	-48.51	-25.00	-23.51	Horizontal
5	7605.000	-61.19	13.78	-47.41	-25.00	-22.41	Horizontal
6	34.045	-77.77	4.64	-73.13	-25.00	-48.13	Vertical
7	47.703	-73.03	-3.45	-76.48	-25.00	-51.48	Vertical
8	952.000	-81.77	14.25	-67.52	-25.00	-42.52	Vertical
9	5070.000	-59.95	9.77	-50.18	-25.00	-25.18	Vertical
10	7605.000	-65.99	13.78	-52.21	-25.00	-27.21	Vertical
Highest Channel							
1	32.184	-77.16	4.84	-72.32	-25.00	-47.32	Horizontal
2	43.538	-74.33	-0.53	-74.86	-25.00	-49.86	Horizontal
3	809.924	-80.74	12.23	-68.51	-25.00	-43.51	Horizontal
4	5120.000	-64.25	9.95	-54.30	-25.00	-29.30	Horizontal
5	7680.000	-65.50	13.86	-51.64	-25.00	-26.64	Horizontal
6	34.045	-77.44	4.64	-72.80	-25.00	-47.80	Vertical
7	781.961	-80.89	11.62	-69.27	-25.00	-44.27	Vertical
8	932.141	-81.68	14.11	-67.57	-25.00	-42.57	Vertical
9	5120.000	-64.39	9.95	-54.44	-25.00	-29.44	Vertical
10	7680.000	-66.99	13.86	-53.13	-25.00	-28.13	Vertical

5.8.5 LTE Band 12

LTE Band 12_ 10 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	538.811	346.074	-88.83	32.60	-56.23	-13.00	Horizontal
2	637.795	516.565	-88.37	36.45	-51.92	-13.00	Horizontal
3	938.714	952.000	-87.05	42.99	-44.06	-13.00	Horizontal
4	2806.000	2802.000	-49.35	4.36	-44.99	-13.00	Horizontal
5	3507.500	3502.500	-43.11	6.74	-36.37	-13.00	Horizontal
6	31.292	512.948	-88.78	36.48	-52.30	-13.00	Vertical
7	586.217	615.774	-88.93	38.58	-50.35	-13.00	Vertical
8	938.714	932.141	-87.77	42.91	-44.86	-13.00	Vertical
9	2806.000	2802.000	-53.52	4.36	-49.16	-13.00	Vertical
10	3507.500	3502.500	-50.77	6.74	-44.03	-13.00	Vertical
Middle Channel							
1	30.855	-92.69	33.86	-58.83	-13.00	-45.83	Horizontal
2	430.305	-89.31	34.23	-55.08	-13.00	-42.08	Horizontal
3	646.822	-88.88	39.37	-49.51	-13.00	-36.51	Horizontal
4	2830.000	-47.57	4.46	-43.11	-13.00	-30.11	Horizontal
5	3537.500	-46.95	6.90	-40.05	-13.00	-27.05	Horizontal
6	34.527	-92.19	33.80	-58.39	-13.00	-45.39	Vertical
7	401.105	-88.97	33.81	-55.16	-13.00	-42.16	Vertical
8	562.014	-88.63	37.20	-51.43	-13.00	-38.43	Vertical
9	2830.000	-49.27	4.46	-44.81	-13.00	-31.81	Vertical
10	3537.500	-54.07	6.90	-47.17	-13.00	-34.17	Vertical
Highest Channel							
1	379.178	-88.42	32.99	-55.43	-13.00	-42.43	Horizontal
2	502.247	-89.01	36.18	-52.83	-13.00	-39.83	Horizontal
3	642.292	-87.91	39.29	-48.62	-13.00	-35.62	Horizontal
4	2858.000	-48.65	4.55	-44.10	-13.00	-31.10	Horizontal
5	3572.500	-47.34	7.04	-40.30	-13.00	-27.30	Horizontal
6	30.425	-91.11	33.94	-57.17	-13.00	-44.17	Vertical
7	448.836	-88.24	34.35	-53.89	-13.00	-40.89	Vertical
8	538.811	-88.83	37.03	-51.80	-13.00	-38.80	Vertical
9	2858.000	-46.82	4.55	-42.27	-13.00	-29.27	Vertical
10	3572.500	-48.58	7.04	-41.54	-13.00	-28.54	Vertical

5.8.6 LTE Band 17

LTE Band 17_ 10 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Middle Channel							
1	491.770	-88.64	35.81	-52.83	-13.00	-39.83	Horizontal
2	642.292	-87.97	39.29	-48.68	-13.00	-35.68	Horizontal
3	992.997	-87.77	43.41	-44.36	-13.00	-31.36	Horizontal
4	2836.000	-46.30	4.48	-41.82	-13.00	-28.82	Horizontal
5	3545.000	-45.41	6.92	-38.49	-13.00	-25.49	Horizontal
6	458.399	-88.27	34.92	-53.35	-13.00	-40.35	Vertical
7	646.822	-88.66	39.37	-49.29	-13.00	-36.29	Vertical
8	932.141	-87.37	42.91	-44.46	-13.00	-31.46	Vertical
9	2836.000	-46.93	4.48	-42.45	-13.00	-29.45	Vertical
10	3545.000	-51.01	6.92	-44.09	-13.00	-31.09	Vertical

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5.8.7 LTE Band 66

LTE Band 66_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	33.807	-76.37	4.64	-71.73	-13.00	-58.73	Horizontal
2	47.703	-72.20	-3.45	-75.65	-13.00	-62.65	Horizontal
3	965.474	-82.49	14.34	-68.15	-13.00	-55.15	Horizontal
4	3440.000	-65.01	6.53	-58.48	-13.00	-45.48	Horizontal
5	5160.000	-64.91	10.10	-54.81	-13.00	-41.81	Horizontal
6	33.101	-77.36	4.76	-72.60	-13.00	-59.60	Vertical
7	376.523	-80.26	4.33	-75.93	-13.00	-62.93	Vertical
8	881.184	-81.81	13.59	-68.22	-13.00	-55.22	Vertical
9	3440.000	-65.75	6.53	-59.22	-13.00	-46.22	Vertical
10	5160.000	-64.86	10.10	-54.76	-13.00	-41.76	Vertical
Middle Channel							
1	33.335	-77.74	4.72	-73.02	-13.00	-60.02	Horizontal
2	45.095	-74.12	-1.73	-75.85	-13.00	-62.85	Horizontal
3	781.961	-80.36	11.62	-68.74	-13.00	-55.74	Horizontal
4	3490.000	-65.02	6.71	-58.31	-13.00	-45.31	Horizontal
5	5235.000	-64.97	10.44	-54.53	-13.00	-41.53	Horizontal
6	32.870	-77.76	4.78	-72.98	-13.00	-59.98	Vertical
7	651.383	-79.52	9.96	-69.56	-13.00	-56.56	Vertical
8	972.283	-81.46	14.39	-67.07	-13.00	-54.07	Vertical
9	3490.000	-64.90	6.71	-58.19	-13.00	-45.19	Vertical
10	5235.000	-66.76	10.44	-56.32	-13.00	-43.32	Vertical
Highest Channel							
1	34.527	-79.18	4.99	-74.19	-13.00	-61.19	Horizontal
2	47.037	-72.92	-2.72	-75.64	-13.00	-62.64	Horizontal
3	642.292	-79.91	9.87	-70.04	-13.00	-57.04	Horizontal
4	3540.000	-64.86	6.91	-57.95	-13.00	-44.95	Horizontal
5	5310.000	-66.16	10.85	-55.31	-13.00	-42.31	Horizontal
6	31.513	-78.87	4.94	-73.93	-13.00	-60.93	Vertical
7	376.523	-79.52	4.33	-75.19	-13.00	-62.19	Vertical
8	893.656	-81.69	13.85	-67.84	-13.00	-54.84	Vertical
9	3540.000	-64.82	6.91	-57.91	-13.00	-44.91	Vertical
10	5310.000	-66.13	10.85	-55.28	-13.00	-42.28	Vertical

5.9 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 &
 FCC 47 CFR Part 22.355 &
 FCC 47 CFR Part 24.235 &
 FCC 47 CFR Part 27.54,

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

FCC 47 CFR Part 22.355, FCC 47 CFR Par 90.213

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC 47 CFR Part 24.235, FCC 47 CFR Part 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

- 1) Use CMW 500 or CMU 200 with Frequency Error measurement capability.
 - a) Temp. = -30° to $+50^{\circ}\text{C}$
 - b) Voltage = low voltage, 3.6 Vdc, Normal, 3.8 Vdc and High voltage, 4.35 Vdc.

2) Frequency Stability vs Temperature:

The EUT is place inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Pass

5.9.1 LTE Band 2

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperatur e ($^{\circ}\text{C}$)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 2 / 20MHz / Full RB							
QPSK	18900 / 1880.0	VL	TN	20	0.0106	N/A	Pass
		VN		22	0.0117		Pass
		VH		19	0.0101		Pass
		VN	50	23	0.0122		Pass
			40	25	0.0133		Pass
			30	19	0.0101		Pass
			20	32	0.0170		Pass
			10	23	0.0122		Pass
			0	24	0.0128		Pass
			-10	25	0.0133		Pass
			-20	23	0.0122		Pass
			-30	21	0.0112		Pass

5.9.2 LTE Band 4

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 4 / 20MHz / Full RB							
QPSK	20175 / 1732.5	VL	TN	23	0.0133	N/A	Pass
		VN		25	0.0144		Pass
		VH		29	0.0167		Pass
		VN	50	31	0.0179		Pass
			40	23	0.0133		Pass
			30	27	0.0156		Pass
			20	33	0.0190		Pass
			10	36	0.0208		Pass
			0	31	0.0179		Pass
			-10	29	0.0167		Pass
			-20	27	0.0156		Pass
			-30	32	0.0185		Pass

5.9.3 LTE Band 5

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5 / 10MHz / Full RB							
QPSK	20525 / 836.5	VL	TN	24	0.0287	± 2.5	Pass
		VN		24	0.0287	± 2.5	Pass
		VH		26	0.0311	± 2.5	Pass
		VN	50	33	0.0395	± 2.5	Pass
			40	26	0.0311	± 2.5	Pass
			30	23	0.0275	± 2.5	Pass
			20	26	0.0311	± 2.5	Pass
			10	30	0.0359	± 2.5	Pass
			0	29	0.0347	± 2.5	Pass
			-10	22	0.0263	± 2.5	Pass
			-20	31	0.0371	± 2.5	Pass
			-30	25	0.0299	± 2.5	Pass

5.9.4 LTE Band 7

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 7 / 20MHz / Full RB							
QPSK	21100 / 2535	VL	TN	23	0.0091	N/A	Pass
		VN		29	0.0114		Pass
		VH		31	0.0122		Pass
		VN	50	23	0.0091		Pass
			40	33	0.0130		Pass
			30	28	0.0110		Pass
			20	34	0.0134		Pass
			10	28	0.0110		Pass
			0	30	0.0118		Pass
			-10	27	0.0107		Pass
			-20	25	0.0099		Pass
			-30	31	0.0122		Pass

5.9.5 LTE Band 12

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 12 / 10MHz / Full RB							
QPSK	23095 / 707.5	VL	TN	-21	-0.0297	N/A	Pass
		VN		-32	-0.0452		Pass
		VH		-18	-0.0254		Pass
		VN	50	-23	-0.0325		Pass
			40	-29	-0.0410		Pass
			30	-24	-0.0339		Pass
			20	-31	-0.0438		Pass
			10	-19	-0.0269		Pass
			0	-22	-0.0311		Pass
			-10	-19	-0.0269		Pass
			-20	-32	-0.0452		Pass
			-30	-24	-0.0339		Pass

5.9.6 LTE Band 17

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 17 / 10MHz / Full RB							
QPSK	23790 / 710	VL	TN	23	0.0294	N/A	Pass
		VN		31	0.0396		Pass
		VH		29	0.0371		Pass
		VN	50	30	0.0384		Pass
			40	29	0.0371		Pass
			30	33	0.0422		Pass
			20	25	0.0320		Pass
			10	23	0.0294		Pass
			0	29	0.0371		Pass
			-10	31	0.0396		Pass
			-20	33	0.0422		Pass
			-30	28	0.0358		Pass

5.9.7 LTE Band 66

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 66 / 20MHz / Full RB							
QPSK	132322 / 1745	VL	TN	-21	-0.0120	N/A	Pass
		VN		-20	-0.0115		Pass
		VH		-19	-0.0109		Pass
		VN	50	-23	-0.0132		Pass
			40	-32	-0.0183		Pass
			30	-35	-0.0201		Pass
			20	-28	-0.0160		Pass
			10	-34	-0.0195		Pass
			0	-23	-0.0132		Pass
			-10	-31	-0.0178		Pass
			-20	-26	-0.0149		Pass
			-30	-39	-0.0223		Pass

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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