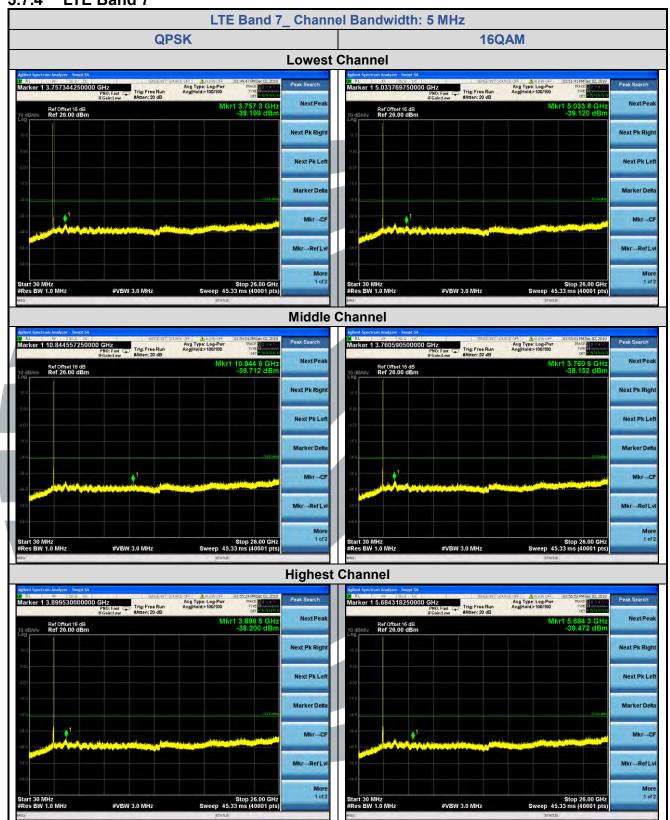
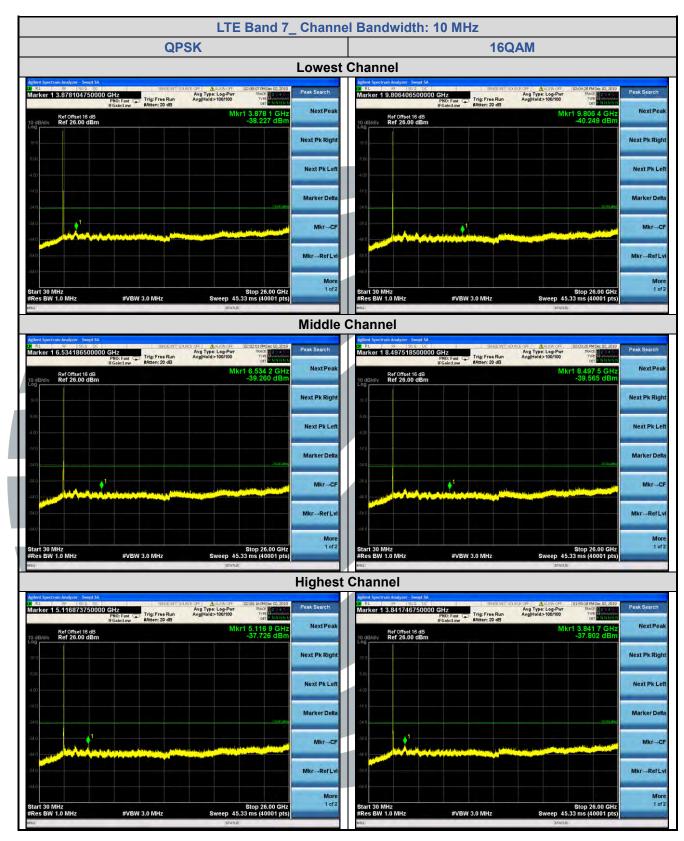




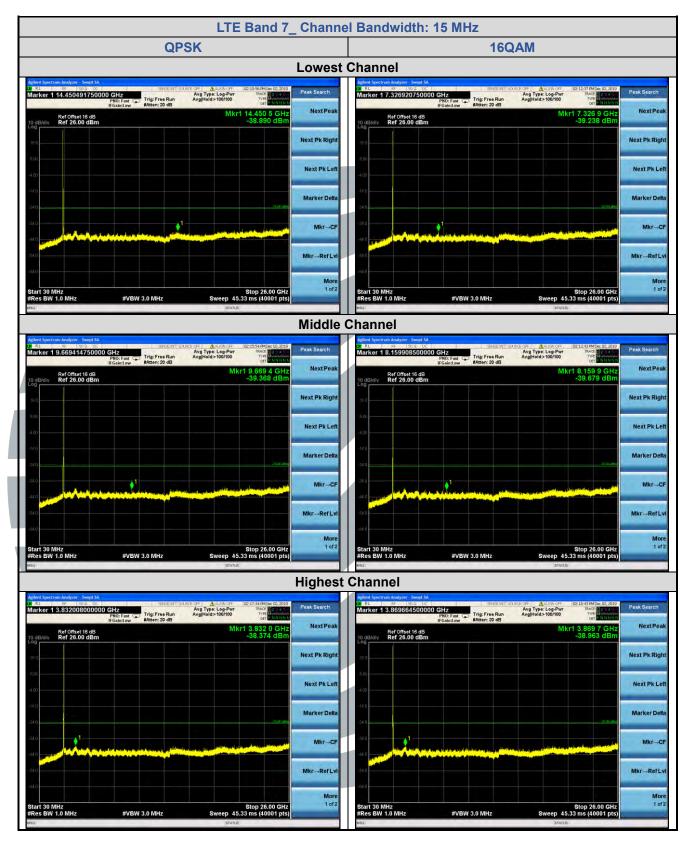
5.7.4 LTE Band 7



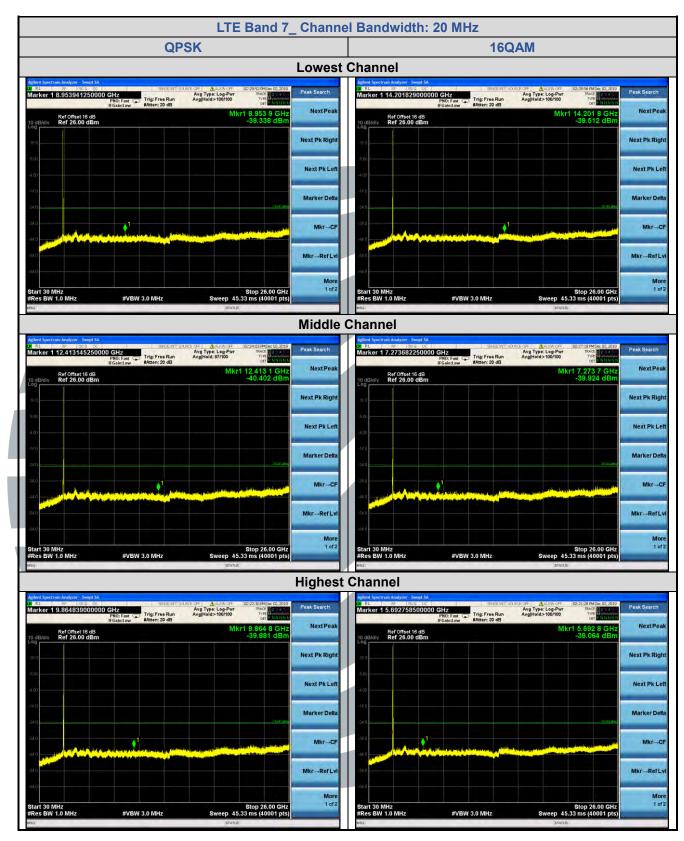






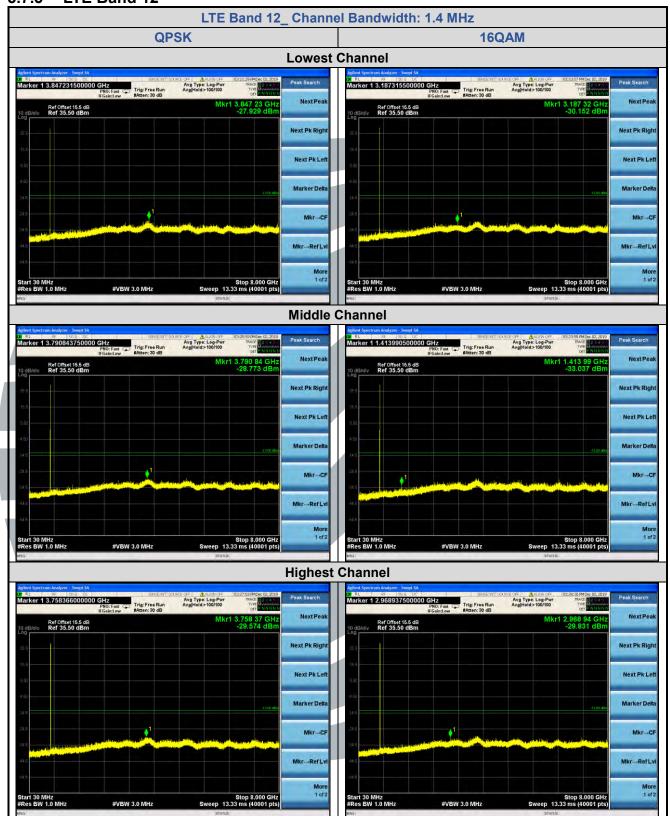




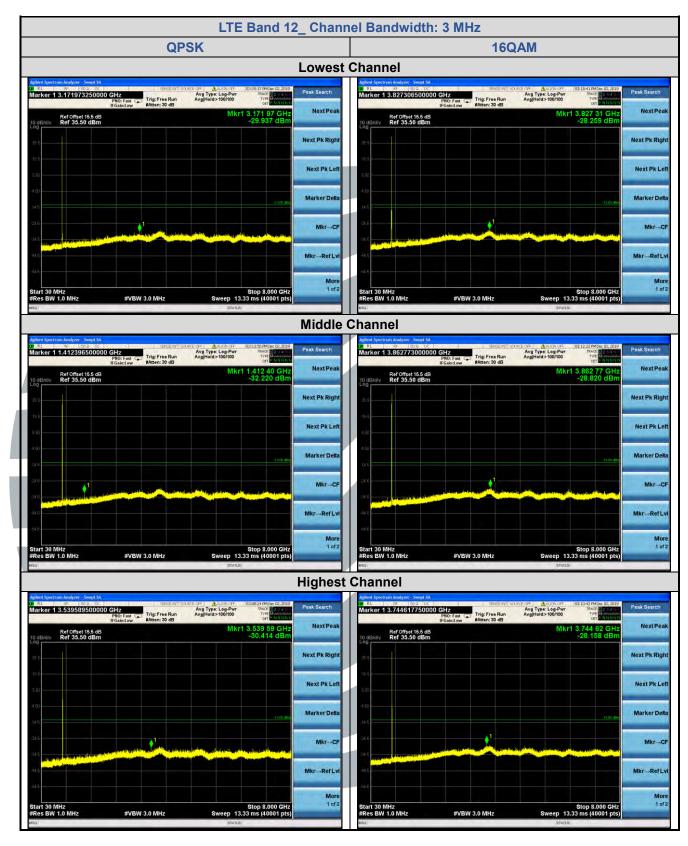




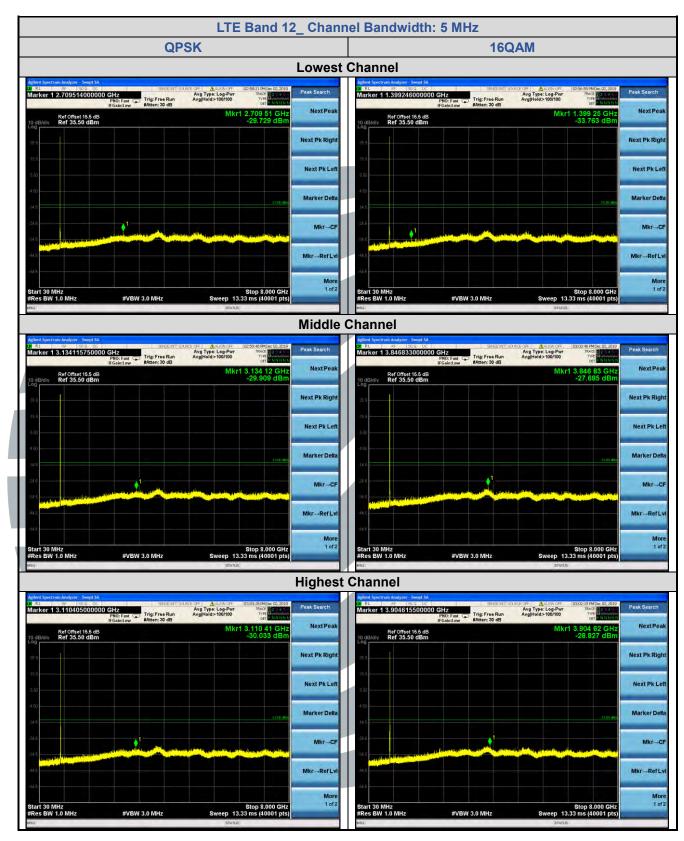
5.7.5 LTE Band 12



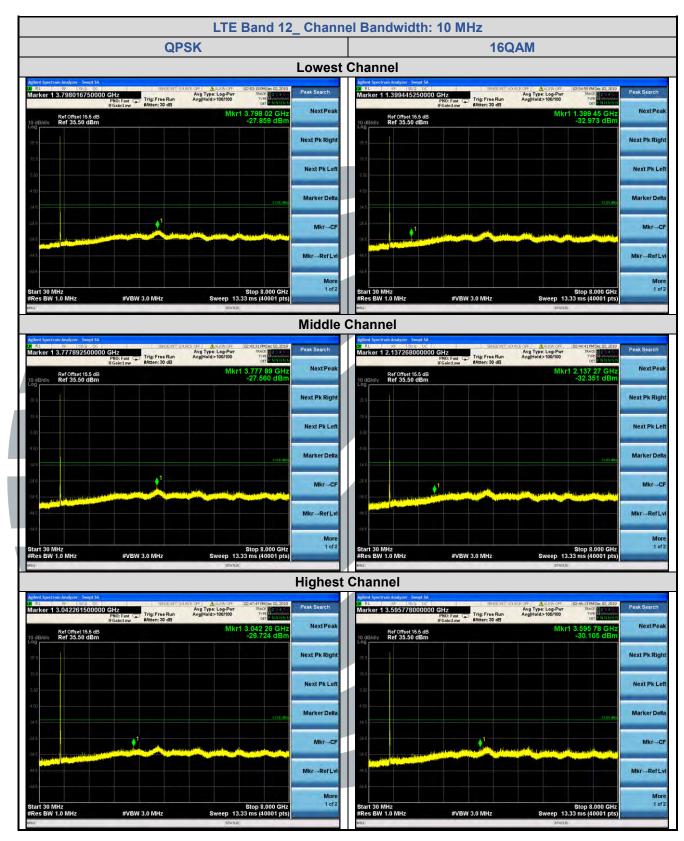






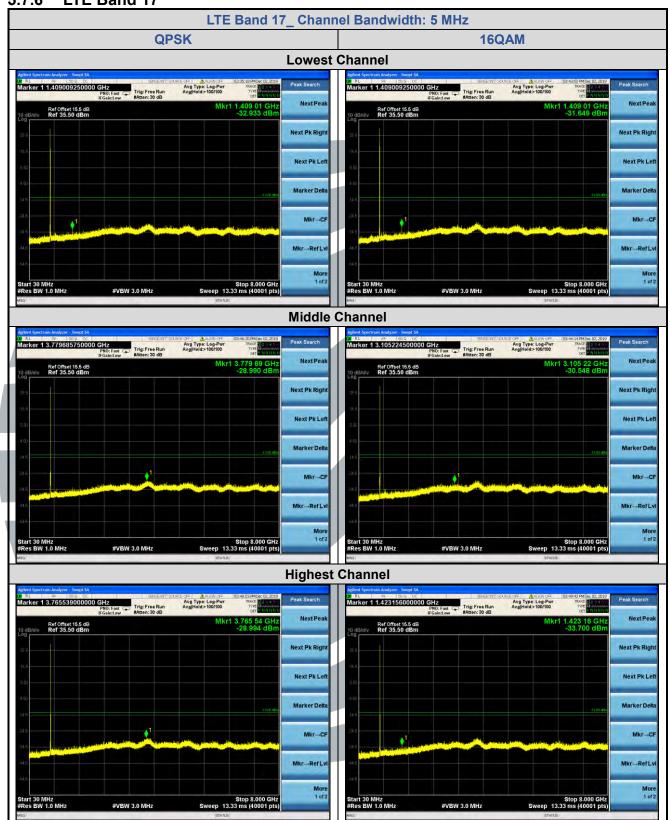




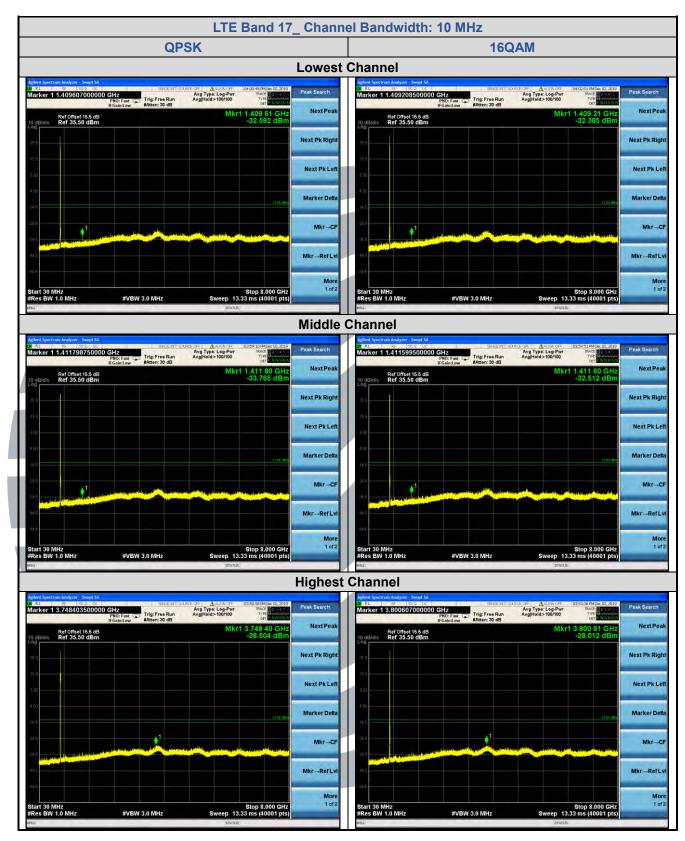




5.7.6 LTE Band 17







Page 166 of 182 Report No.: 191118001RFM-2

5.8 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: LTE Band 2: FCC 47 CFR Part 24.238(a)

LTE Band 4: 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: FCC 47 CFR Part 27.53(g)
LTE Band 17: FCC 47 CFR Part 27.53

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

Receiver Setup:

Frequency	Detector	Detector RBW		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), 27.53(c)(2), 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. 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.

FCC 47 CFR Part 27.53:

(c) 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.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

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:



Radiated Emission Test Data (30 MHz to 1 GHz)

5.8.1 LTE Band 2

			LTE Band 2	_ 20 MHz_ QP	SK		
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowes	t Channel						
1	47.703	-72.61	-3.49	-76.10	-13.00	-63.10	Horizontal
2	66.371	-72.72	-4.43	-77.15	-13.00	-64.15	Horizontal
3	972.283	-81.29	15.70	-65.59	-13.00	-52.59	Horizontal
4	39.459	-77.11	-0.50	-77.61	-13.00	-64.61	Vertical
5	223.848	-80.48	-0.10	-80.58	-13.00	-67.58	Vertical
6	972.283	-81.29	15.70	-65.59	-13.00	-52.59	Vertical
Middle	Channel						
1	50.461	-71.98	-3.82	-75.80	-13.00	-62.80	Horizontal
2	66.371	-72.88	-4.43	-77.31	-13.00	-64.31	Horizontal
3	520.208	-79.17	6.32	-72.85	-13.00	-59.85	Horizontal
4	45.095	-75.86	-2.83	-78.69	-13.00	-65.69	Vertical
5	442.572	-80.23	5.18	-75.05	-13.00	-62.05	Vertical
6	1000.000	-83.89	17.01	-66.88	-13.00	-53.88	Vertical
Highes	st Channel						
1	47.703	-71.80	-3.49	-75.29	-13.00	-62.29	Horizontal
2	101.893	-75.70	-2.18	-77.88	-13.00	-64.88	Horizontal
3	958.714	-82.11	15.28	-66.83	-13.00	-53.83	Horizontal
4	43.845	-76.18	-2.36	-78.54	-13.00	-65.54	Vertical
5	50.461	-75.66	-3.82	-79.48	-13.00	-66.48	Vertical
6	932.141	-82.32	14.26	-68.06	-13.00	-55.06	Vertical



5.8.2 LTE Band 4

5.6.2	LIE Dallu 4	-	ITF Band 4	20 MHz QPS	SK		
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowes	t Channel						
1	48.378	-71.85	-3.60	-75.45	-13.00	-62.45	Horizontal
2	66.371	-73.62	-4.43	-78.05	-13.00	-65.05	Horizontal
3	979.139	-80.96	16.01	-64.95	-13.00	-51.95	Horizontal
4	30.639	-80.81	5.16	-75.65	-13.00	-62.65	Vertical
5	282.270	-80.25	2.28	-77.97	-13.00	-64.97	Vertical
6	821.387	-80.90	11.10	-69.80	-13.00	-56.80	Vertical
Middle	Channel						
1	50.461	-71.55	-3.82	-75.37	-13.00	-62.37	Horizontal
2	101.893	-76.19	-2.18	-78.37	-13.00	-65.37	Horizontal
3	938.714	-80.80	14.55	-66.25	-13.00	-53.25	Horizontal
4	38.096	-79.26	0.15	-79.11	-13.00	-66.11	Vertical
5	403.934	-80.06	4.64	-75.42	-13.00	-62.42	Vertical
6	992.997	-82.45	16.77	-65.68	-13.00	-52.68	Vertical
Highes	st Channel						
1	47.703	-72.27	-3.49	-75.76	-13.00	-62.76	Horizontal
2	69.230	-72.79	-4.14	-76.93	-13.00	-63.93	Horizontal
3	986.044	-82.50	16.43	-66.07	-13.00	-53.07	Horizontal
4	34.045	-79.24	2.42	-76.82	-13.00	-63.82	Vertical
5	156.426	-79.30	-1.09	-80.39	-13.00	-67.39	Vertical
6	958.714	-82.80	15.28	-67.52	-13.00	-54.52	Vertical



5.8.3 LTE Band 5

			LTE Band 5	_ 10 MHz_ QP	SK		
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowes	t Channel						
1	30.425	-92.95	34.16	-58.79	-13.00	-45.79	Horizontal
2	760.287	-88.87	39.97	-48.90	-13.00	-35.90	Horizontal
3	965.474	-87.41	44.29	-43.12	-13.00	-30.12	Horizontal
4	32.184	-90.97	32.91	-58.06	-13.00	-45.06	Vertical
5	178.770	-89.31	27.89	-61.42	-13.00	-48.42	Vertical
6	972.283	-87.25	44.47	-42.78	-13.00	-29.78	Vertical
Middle	Channel						
1	31.735	-91.94	33.26	-58.68	-13.00	-45.68	Horizontal
2	684.226	-88.19	38.80	-49.39	-13.00	-36.39	Horizontal
3	972.283	-87.87	44.47	-43.40	-13.00	-30.40	Horizontal
4	31.073	-92.26	33.71	-58.55	-13.00	-45.55	Vertical
5	266.839	-88.76	29.96	-58.80	-13.00	-45.80	Vertical
6	958.714	-86.45	44.08	-42.37	-13.00	-29.37	Vertical
Highes	st Channel						
1	31.735	-92.07	33.26	-58.81	-13.00	-45.81	Horizontal
2	728.897	-87.61	39.22	-48.39	-13.00	-35.39	Horizontal
3	965.474	-87.22	44.29	-42.93	-13.00	-29.93	Horizontal
4	30.639	-93.42	34.01	-59.41	-13.00	-46.41	Vertical
5	436.396	-89.61	34.08	-55.53	-13.00	-42.53	Vertical
6	979.139	-88.15	44.76	-43.39	-13.00	-30.39	Vertical



5.8.4 LTE Band 7

5.6.4	LIE Ballu I			00.1411 000	217		
	ı			_ 20 MHz_ QP	SK		<u> </u>
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowes	t Channel						
1	43.845	-73.09	-3.80	-76.89	-25.00	-51.89	Horizontal
2	69.230	-72.60	-3.95	-76.55	-25.00	-51.55	Horizontal
3	713.692	-79.93	11.38	-68.55	-25.00	-43.55	Horizontal
4	51.900	-74.86	-5.76	-80.62	-25.00	-55.62	Vertical
5	104.798	-78.30	-2.19	-80.49	-25.00	-55.49	Vertical
6	233.488	-71.32	0.47	-70.85	-25.00	-45.85	Vertical
Middle	Channel						
1	47.703	-69.95	-5.76	-75.71	-25.00	-50.71	Horizontal
2	69.230	-72.03	-3.95	-75.98	-25.00	-50.98	Horizontal
3	101.893	-75.47	-2.32	-77.79	-25.00	-52.79	Horizontal
4	30.212	-79.24	4.46	-74.78	-25.00	-49.78	Vertical
5	51.900	-73.73	-5.76	-79.49	-25.00	-54.49	Vertical
6	233.488	-75.01	0.47	-74.54	-25.00	-49.54	Vertical
Highes	st Channel						
1	30.000	-77.80	4.78	-73.02	-25.00	-48.02	Horizontal
2	69.230	-72.84	-3.95	-76.79	-25.00	-51.79	Horizontal
3	233.488	-75.01	0.47	-74.54	-25.00	-49.54	Horizontal
4	35.762	-77.05	0.24	-76.81	-25.00	-51.81	Vertical
5	91.700	-77.06	-3.04	-80.10	-25.00	-55.10	Vertical
6	233.488	-75.01	0.47	-74.54	-25.00	-49.54	Vertical



5.8.5 LTE Band 12

	LIL Dalla		LTE Band 12	2_ 10 MHz_ QP	SK		
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowes	t Channel						
1	31.959	-92.25	33.10	-59.15	-13.00	-46.15	Horizontal
2	430.305	-88.39	34.00	-54.39	-13.00	-41.39	Horizontal
3	952.000	-86.93	43.61	-43.32	-13.00	-30.32	Horizontal
4	31.513	-92.01	33.41	-58.60	-13.00	-45.60	Vertical
5	298.593	-88.56	30.43	-58.13	-13.00	-45.13	Vertical
6	992.997	-86.89	45.49	-41.40	-13.00	-28.40	Vertical
Middle	Channel						
1	32.870	-92.17	32.30	-59.87	-13.00	-46.87	Horizontal
2	286.265	-89.03	30.38	-58.65	-13.00	-45.65	Horizontal
3	986.044	-88.20	45.16	-43.04	-13.00	-30.04	Horizontal
4	30.639	-91.83	34.01	-57.82	-13.00	-44.82	Vertical
5	166.639	-89.21	27.53	-61.68	-13.00	-48.68	Vertical
6	945.334	-87.12	43.46	-43.66	-13.00	-30.66	Vertical
Highes	st Channel						
1	32.184	-91.76	32.91	-58.85	-13.00	-45.85	Horizontal
2	144.790	-88.73	27.07	-61.66	-13.00	-48.66	Horizontal
3	992.997	-87.72	45.49	-42.23	-13.00	-29.23	Horizontal
4	31.073	-91.78	33.71	-58.07	-13.00	-45.07	Vertical
5	531.291	-88.26	35.88	-52.38	-13.00	-39.38	Vertical
6	952.000	-87.07	43.61	-43.46	-13.00	-30.46	Vertical



LTE Band 17 5.8.6

01010		•								
			LTE Band 1	7_ 10 MHz_ QP	SK					
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.			
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)				
Middle	Middle Channel									
1	32.184	-91.55	32.91	-58.64	-13.00	-45.64	Horizontal			
2	198.642	-87.20	27.74	-59.46	-13.00	-46.46	Horizontal			
3	669.952	-87.91	38.46	-49.45	-13.00	-36.45	Horizontal			
4	51.900	-90.45	25.08	-65.37	-13.00	-52.37	Vertical			
5	162.020	-88.60	27.60	-61.00	-13.00	-48.00	Vertical			
6	562.014	-88.62	36.15	-52.47	-13.00	-39.47	Vertical			

Remark:

- Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
- Result = Reading + Correct Factor.
- Margin = Result Limit



Radiated Emission Test Data (Above 1 GHz)

5.8.7 LTE Band 2

			LTE Band 2	_ 20 MHz_ QP	SK		
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowes	t Channel						
1	3800.000	-69.84	13.95	-55.89	-13.00	-42.89	Horizontal
2	5700.000	-69.87	16.28	-53.59	-13.00	-40.59	Horizontal
3	3800.000	-70.01	15.39	-54.62	-13.00	-41.62	Vertical
4	5700.000	-69.13	17.14	-51.99	-13.00	-38.99	Vertical
Middle	Channel						
1	3720.000	-72.04	13.80	-58.24	-13.00	-45.24	Horizontal
2	5580.000	-70.08	15.98	-54.10	-13.00	-41.10	Horizontal
3	3720.000	-68.88	15.18	-53.70	-13.00	-40.70	Vertical
4	5580.000	-69.32	16.87	-52.45	-13.00	-39.45	Vertical
Highes	st Channel						
1	3760.000	-71.07	13.87	-57.20	-13.00	-44.20	Horizontal
2	5640.000	-70.36	16.10	-54.26	-13.00	-41.26	Horizontal
3	3760.000	-71.97	15.28	-56.69	-13.00	-43.69	Vertical
4	5640.000	-69.42	16.97	-52.45	-13.00	-39.45	Vertical





5.8.8 LTE Band 4

<u>5.0.0</u>	LIL Dallu -	r					
			LTE Band 4	_ 20 MHz_ QP	SK		
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowes	st Channel						
1	3440.000	-72.92	12.56	-60.36	-13.00	-47.36	Horizontal
2	5160.000	-69.35	16.14	-53.21	-13.00	-40.21	Horizontal
3	3440.000	-73.29	13.80	-59.49	-13.00	-46.49	Vertical
4	5160.000	-69.30	17.11	-52.19	-13.00	-39.19	Vertical
Middle	e Channel						
1	3465.000	-72.81	12.74	-60.07	-13.00	-47.07	Horizontal
2	5197.500	-68.30	16.21	-52.09	-13.00	-39.09	Horizontal
3	3465.000	-73.31	13.97	-59.34	-13.00	-46.34	Vertical
4	5197.500	-69.26	17.17	-52.09	-13.00	-39.09	Vertical
Highe	st Channel						
1	3490.000	-70.51	12.93	-57.58	-13.00	-44.58	Horizontal
2	5235.000	-67.87	16.20	-51.67	-13.00	-38.67	Horizontal
3	3490.000	-71.70	14.14	-57.56	-13.00	-44.56	Vertical
4	5235.000	-67.02	17.16	-49.86	-13.00	-36.86	Vertical





5.8.9 LTE Band 5

<u>5.0.5</u>	LIL Dalla						
			LTE Band 5	_ 10 MHz_ QP	SK		
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowes	st Channel						
1	1658.000	-67.83	2.47	-65.36	-13.00	-52.36	Horizontal
2	2487.000	-69.74	9.16	-60.58	-13.00	-47.58	Horizontal
3	1658.000	-68.23	4.14	-64.09	-13.00	-51.09	Vertical
4	2487.000	-68.48	11.48	-57.00	-13.00	-44.00	Vertical
Middle	Channel						
1	1673.000	-68.30	2.59	-65.71	-13.00	-52.71	Horizontal
2	2509.500	-70.16	9.17	-60.99	-13.00	-47.99	Horizontal
3	1673.000	-68.27	4.31	-63.96	-13.00	-50.96	Vertical
4	2509.500	-70.73	11.46	-59.27	-13.00	-46.27	Vertical
Highe	st Channel						
1	1688.000	-69.20	2.71	-66.49	-13.00	-53.49	Horizontal
2	2532.000	-64.88	9.21	-55.67	-13.00	-42.67	Horizontal
3	1688.000	-69.40	4.49	-64.91	-13.00	-51.91	Vertical
4	2532.000	-62.88	11.46	-51.42	-13.00	-38.42	Vertical





5.8.10 LTE Band 7

			LTE Band 7	_ 20 MHz_ QP	SK					
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.			
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)				
Lowes	Lowest Channel									
1	5020.000	-66.88	15.89	-50.99	-25.00	-25.99	Horizontal			
2	7530.000	-65.44	19.08	-46.36	-25.00	-21.36	Horizontal			
3	5020.000	-66.54	16.89	-49.65	-25.00	-24.65	Vertical			
4	7530.000	-65.04	18.48	-46.56	-25.00	-21.56	Vertical			
Middle	e Channel									
1	5070.000	-66.16	15.98	-50.18	-25.00	-25.18	Horizontal			
2	7605.000	-64.57	19.09	-45.48	-25.00	-20.48	Horizontal			
3	5070.000	-65.69	16.97	-48.72	-25.00	-23.72	Vertical			
4	7605.000	-65.08	18.47	-46.61	-25.00	-21.61	Vertical			
Highes	st Channel									
1	5120.000	-65.65	16.07	-49.58	-25.00	-24.58	Horizontal			
2	7680.000	-65.49	19.10	-46.39	-25.00	-21.39	Horizontal			
3	5120.000	-66.62	17.05	-49.57	-25.00	-24.57	Vertical			
4	7680.000	-64.51	18.47	-46.04	-25.00	-21.04	Vertical			





5.8.11 LTE Band 12

			LTE Band 12	2_ 10 MHz_ QP	SK		
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowes	st Channel						
1	1408.000	-62.13	0.94	-61.19	-13.00	-48.19	Horizontal
2	2112.000	-69.40	5.78	-63.62	-13.00	-50.62	Horizontal
3	1408.000	-66.54	1.96	-64.58	-13.00	-51.58	Vertical
4	2112.000	-65.89	8.54	-57.35	-13.00	-44.35	Vertical
Middle	e Channel						
1	1415.000	-63.07	0.96	-62.11	-13.00	-49.11	Horizontal
2	2122.500	-68.38	5.83	-62.55	-13.00	-49.55	Horizontal
3	1415.000	-65.82	1.99	-63.83	-13.00	-50.83	Vertical
4	2122.500	-67.24	8.58	-58.66	-13.00	-45.66	Vertical
Highe	st Channel						
1	1422.000	-64.96	0.99	-63.97	-13.00	-50.97	Horizontal
2	2133.000	-71.42	5.89	-65.53	-13.00	-52.53	Horizontal
3	1422.000	-66.21	2.02	-64.19	-13.00	-51.19	Vertical
4	2133.000	-71.40	8.63	-62.77	-13.00	-49.77	Vertical

5.8.12 LTE Band 17

1 3													
		LTE Band 17_ 10 MHz_ QPSK											
	No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.					
		(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)						
	Middle Channel												
V	1	1564.000	-69.74	0.98	-68.76	-13.00	-55.76	Horizontal					
	2	2346.000	-75.92	5.86	-70.06	-13.00	-57.06	Horizontal					
	3	1564.000	-69.02	2.01	-67.01	-13.00	-54.01	Vertical					
	4	2346.000	-74.83	8.60	-66.23	-13.00	-53.23	Vertical					

Test Requirement:

Page 178 of 182 Report No.: 191118001RFM-2

5.9 FREQUENCY STABILITY

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° C
 - b) Voltage = low voltage, 3.45 Vdc, Normal, 3.85 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°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	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
			LTE Band 2 / 20	MHz / Full RB			
		VL		-6	-0.0032	A	Pass
		VN	TN	9	0.0048		Pass
		VH		11	0.0059		Pass
			50	7	0.0037		Pass
			40	-6	-0.0032		Pass
QPSK	18900 /		30	8	0.0043	N/A	Pass
QFSK	1880.0		20	13	0.0069	IN/A	Pass
		VN	10	-10	-0.0053		Pass
			0	12	0.0064		Pass
			-10	8	0.0043		Pass
			-20	7	0.0037		Pass
			-30	7	0.0037		Pass



5.9.2 LTE Band 4

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
			LTE Band 4 / 20	MHz / Full RB			
		VL		11	0.0063		Pass
		VN	TN	-9	-0.0052		Pass
		VH		7	0.0040		Pass
			50	7	0.0040		Pass
	20175 / 1732.5		40	12	0.0069	N/A	Pass
QPSK			30	9	0.0052		Pass
			20	9	0.0052		Pass
			10	11	0.0063		Pass
			/N 10 11 0.0063 Pass	Pass			
			-10	-12	-0.0069		Pass Pass
			-20	9	0.0052		Pass
			-30	-9	-0.0052		Pass

5.9.3 LTE Band 5

	Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result	
		(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)		
			I	TE Band 5 / 10	MHz / Full RB				
			VL		5	0.0060	± 2.5	Pass	
			VN	TN	10	0.0120	± 2.5	Pass	
		20525 / 836.5		VH		-7	-0.0084	± 2.5	Pass
					50	-8	-0.0096	± 2.5	Pass
					40	15	0.0179	± 2.5	Pass
	QPSK			30	-10	-0.0120	± 2.5	Pass	
	QPSN			20	11	0.0132	± 2.5	Pass	
N			VN	10	7	0.0084	± 2.5	Pass	
1				0	9	0.0108	± 2.5	Pass	
				-10	6	0.0072	± 2.5	Pass	
				-20	18	0.0215	± 2.5	Pass	
				-30	-7	-0.0084	± 2.5	Pass	



5.9.4 LTE Band 7

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
		I	LTE Band 7 / 20	MHz / Full RB	}		
		VL		-11	-0.0043		Pass
		VN	TN	10	0.0039		Pass
		VH		9	0.0036		Pass
			50	7	0.0028		Pass
			40	-8	-0.0032	N/A	Pass
QPSK	21100 / 2535	00 / 2535 VN	30	12	0.0047		Pass
QPSK			20	9	0.0036		Pass
			10	-16	-0.0063		Pass
			0	15	0.0059		Pass
			-10	14	0.0055		Pass
			-20	-7	-0.0028		Pass
			-30	6	0.0024		Pass

5.9.5 LTE Band 12

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result	
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)		
		L	TE Band 12 / 1	OMHz / Full RE	3			
		VL		-11	-0.0155		Pass	
		VN	TN	16	0.0226		Pass	
	23095 / 707.5		VH		-7	-0.0099		Pass
				50	-9	-0.0127		Pass
			40	16	0.0226	N/A	Pass	
QPSK			30	14	0.0198		Pass	
QPSK	23093 / 707.5		20	-9	-0.0127	IN/A	Pass	
		VN	10	17	0.0240		Pass	
			0	-10	-0.0141		Pass	
			-10	11	0.0155		Pass	
			-20	12	0.0170	A	Pass	
			-30	10	0.0141		Pass	



5.9.6 LTE Band 17

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Result
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
		L	TE Band 17 / 1	0MHz / Full RE	3		
		VL		-16	-0.0205		Pass
	VN TN -12 -0.0153 VH 14 0.0179	VN	TN	-12	-0.0153		Pass
		0.0179		Pass			
			50	9	0.0115		Pass
	23230 / 782	782 VN	40	-8	-0.0102	N/A	Pass
QPSK			30	13	0.0166		Pass
QPSK			20	-7	-0.0090		Pass
			10	-9	-0.0115		Pass
			0	6	0.0077		Pass
			-10	11	0.0141		Pass
			-20	13	0.0166		Pass
			-30	-9	-0.0115		Pass





APPENDIX 1 PHOTOS OF TEST SETUP

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

Report No.: 191118001RFM-2

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

