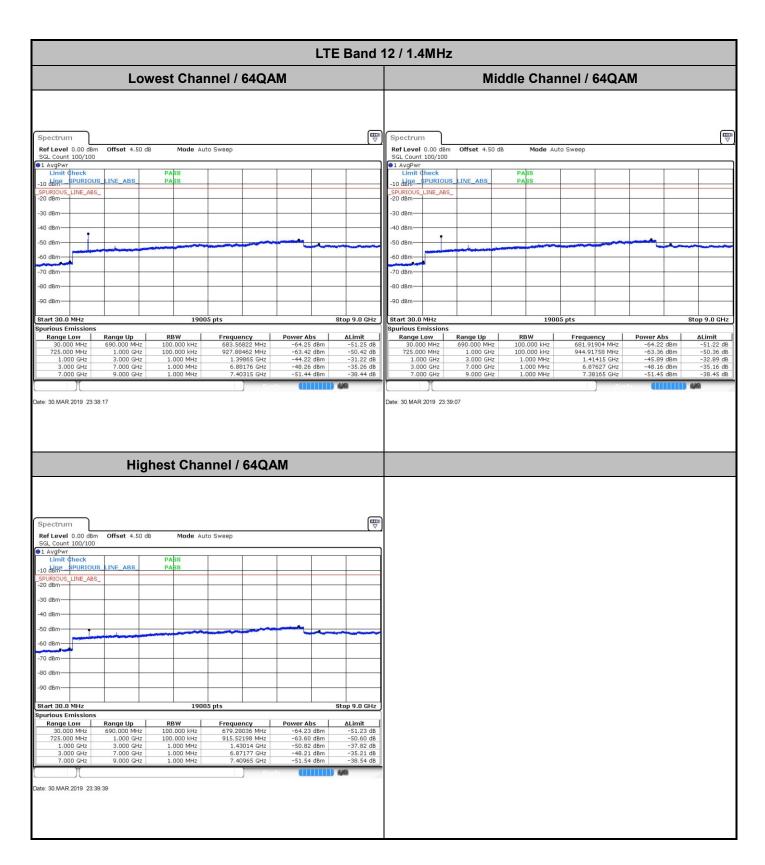


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LTE Band 12 / 3MHz Lowest Channel / 64QAM Middle Channel / 64QAM Spectrum Spectrum Ref Level 0.00 dBm Offset 4.50 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 4.50 dB Mode Auto Sweep SGL Count 100/100 GL Count 100/100 10 dem SPURIOUS 10 dem SPURIOUS LINE ABS LINE_ABS_ _INE_ABS_ 20 dBm 20 dBm 30 dBm -30 dBm 40 dBm 40 dBm -50 dBm -50 dBm Start 30.0 MHz Start 30.0 MHz rious Emissio Spurious Emission RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz 680.59970 MHz 905.35714 MHz 1.39865 GHz 6.85927 GHz 8.00350 GHz Range Low 30.000 MHz 725.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz Range Low 30.000 MHz 725.000 MHz -64.14 dBm -63.57 dBm -45.08 dBm Frequency 680.92954 MHz 933.92857 MHz 1.41265 GHz 6.99375 GHz 8.78630 GHz Range Up 690.000 MHz Range Up 690.000 MH: -51.27 dB -50.51 dB -35.59 dB -35.11 dB -38.51 dB 1.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz 1.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz -63.51 dBm -48.59 dBm -48.34 dBm -51.40 dBm ate: 30.MAR.2019 23:41:39 ate: 30.MAR.2019 23:43:07 **Highest Channel / 64QAM** Spectrum Mode Auto Sweep Ref Level 0.00 dBm Offset 4.50 dB Count 100/100 Limit Check
10 dgne SPURIOUS LINE ABS 30 dBn 40 dBm 50 dBm Start 30.0 MHz rious Emission Range Low 30,000 MHz Range Up 690.000 MHz ate: 30.MAR.2019 23:44:35

Sporton International (Kunshan) Inc.

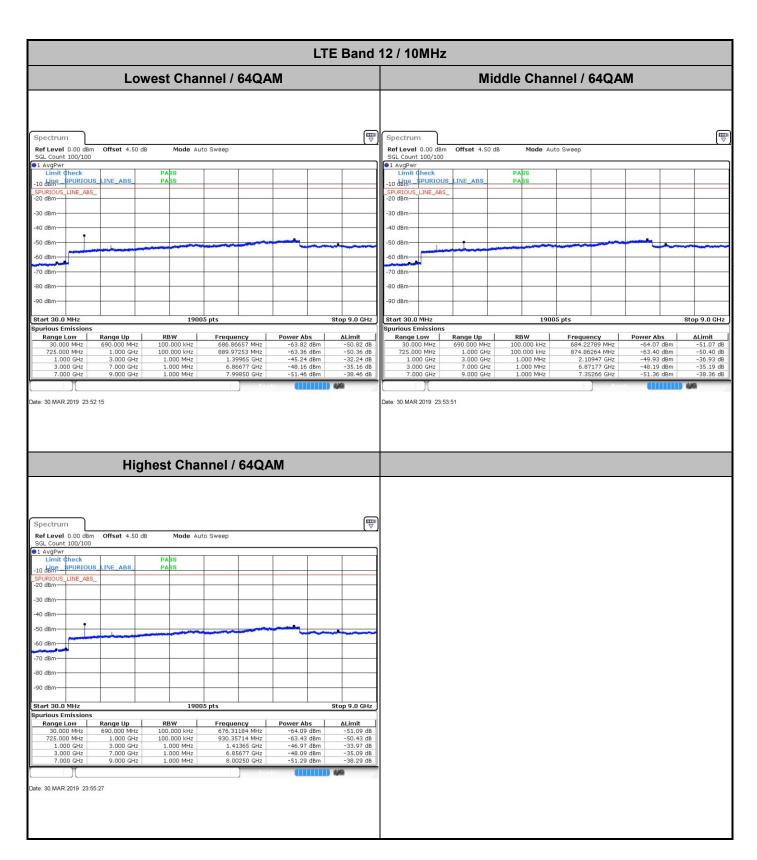
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LTE Band 12 / 5MHz Lowest Channel / 64QAM Middle Channel / 64QAM Spectrum Spectrum Ref Level 0.00 dBm Offset 4.50 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 4.50 dB Mode Auto Sweep SGL Count 100/100 GL Count 100/100 10 dem SPURIOUS 10 dem SPURIOUS LINE ABS LINE_ABS_ _INE_ABS_ 20 dBm 20 dBm 30 dBm -30 dBm 40 dBm 40 dBm -50 dBm -50 dBm Start 30.0 MHz Start 30.0 MHz rious Emissio Spurious Emission Frequency 686.86657 MHz 940.24725 MHz 1.39915 GHz 6.74678 GHz 8.98875 GHz Power Abs
-64.01 dBm
-63.49 dBm
-44.30 dBm
-48.15 dBm
-51.41 dBm Range Low 30.000 MHz 725.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz Range Low 30.000 MHz 725.000 MHz RBW 100.000 kHz 100.000 kHz Frequency 660.47976 MHz 900.13736 MHz 2.11647 GHz 6.99675 GHz 7.37566 GHz Range Up 690.000 MHz -51.07 dB -50.45 dB -36.40 dB -34.95 dB -38.35 dB 1.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz 1.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz 1.000 KHZ 1.000 MHZ 1.000 MHZ 1.000 MHZ ate: 30.MAR.2019 23:46:28 ate: 30.MAR.2019 23:48:24 **Highest Channel / 64QAM** Spectrum Mode Auto Sweep Ref Level 0.00 dBm Offset 4.50 dB Count 100/100 Limit Check
10 dgne SPURIOUS LINE ABS 30 dBr 50 dBm 60 dBn Start 30.0 MHz rious Emission Range Low 30,000 MHz Range Up 690.000 MHz ate: 30.MAR.2019 23:49:58

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Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
T	V-16	BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0020	
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	PASS
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0018	

Note:

- 1. Normal Voltage =4 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.35 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
_ ,		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0021	
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	PASS
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0018	

Note:

- 1. Normal Voltage =4 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.35 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
_ ,		BW 10MHz	2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0020	
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	PASS
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0018	

Note:

- 1. Normal Voltage =4 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.35 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
_ ,		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0021	
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0003	PASS
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0018	

Note:

- 1. Normal Voltage =4 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.35 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test Conditions		LTE Band 12 (QPSK) / Middle Channel			
T	Veltere	BW 10MHz	Note 2.		
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result		
50	Normal Voltage	0.0021			
40	Normal Voltage	0.0018			
30	Normal Voltage	0.0003			
20(Ref.)	Normal Voltage	0.0000			
10	Normal Voltage	0.0028			
0	Normal Voltage	0.0007			
-10	Normal Voltage	0.0003	PASS		
-20	Normal Voltage	0.0008			
-30	Normal Voltage	0.0013			
20	Maximum Voltage	0.0001			
20	Normal Voltage	0.0026			
20	Battery End Point	0.0016			

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Note:

- 1. Normal Voltage =4 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.35 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

			LTE B	and 2 / 20MH	z / QPSK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3702	-58.13	-13	-45.13	-70.39	2.641	14.90	Н
	5553	-57.68	-13	-44.68	-69.54	2.94	14.80	Н
Lawast	7404	-52.22	-13	-39.22	-61.99	3.39	13.16	Н
Lowest	3702	-57.23	-13	-44.23	-69.49	2.64	14.90	V
	5553	-57.36	-13	-44.36	-69.22	2.94	14.80	V
	7404	-52.00	-13	-39.00	-61.77	3.39	13.16	V
	3741	-56.74	-13	-43.74	-69.00	2.641	14.90	Н
	5613	-54.01	-13	-41.01	-65.87	2.94	14.80	Н
N 42 1 11 .	7488	-52.25	-13	-39.25	-62.02	3.39	13.16	Н
Middle	3741	-55.50	-13	-42.50	-67.76	2.64	14.90	V
	5613	-51.43	-13	-38.43	-63.29	2.94	14.80	V
	7488	-51.64	-13	-38.64	-61.41	3.39	13.16	V
	3783	-59.96	-13	-46.96	-72.22	2.641	14.90	Н
	5673	-54.13	-13	-41.13	-65.99	2.94	14.80	Н
l Balana'	7560	-52.40	-13	-39.40	-62.17	3.39	13.16	Н
Highest	3783	-58.43	-13	-45.43	-70.69	2.64	14.90	V
	5673	-55.02	-13	-42.02	-66.88	2.94	14.80	V
	7560	-52.07	-13	-39.07	-61.84	3.39	13.16	V

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

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LTE Band 4 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	3423	-61.53	-13	-48.53	-66.25	3.413	8.13	Н	
	5133	-51.49	-13	-38.49	-57.50	4.195	10.20	Н	
Laurant	6840	-54.34	-13	-41.34	-60.79	4.911	11.36	Н	
Lowest	3423	-60.82	-13	-47.82	-65.54	3.413	8.13	V	
	5133	-54.27	-13	-41.27	-60.28	4.195	10.20	V	
	6840	-54.26	-13	-41.26	-60.71	4.911	11.36	V	
	3447	-60.00	-13	-47.00	-64.72	3.413	8.13	Н	
	5172	-50.10	-13	-37.10	-56.11	4.195	10.20	Н	
N 4: al all a	6900	-54.32	-13	-41.32	-60.77	4.911	11.36	Н	
Middle	3447	-61.13	-13	-48.13	-65.85	3.413	8.13	V	
	5169	-52.27	-13	-39.27	-58.28	4.195	10.20	V	
	6900	-54.15	-13	-41.15	-60.60	4.911	11.36	V	
	3471	-62.77	-13	-49.77	-67.49	3.413	8.13	Н	
	5208	-54.61	-13	-41.61	-60.62	4.195	10.20	Н	
I limb (6948	-54.08	-13	-41.08	-60.53	4.911	11.36	Н	
Highest	3471	-62.96	-13	-49.96	-67.68	3.413	8.13	V	
	5208	-53.14	-13	-40.14	-59.15	4.195	10.20	V	
	6948	-54.20	-13	-41.20	-60.65	4.911	11.36	V	

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	LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	1650	-63.54	-13	-50.54	-68.02	1.21	5.68	Н		
	2474	-62.43	-13	-49.43	-66.69	1.54	5.80	Н		
1	3297	-60.45	-13	-47.45	-66.60	1.73	7.88	Н		
Lowest	1650	-56.23	-13	-43.23	-60.71	1.21	5.68	V		
	2473.77	-59.91	-13	-46.91	-64.17	1.54	5.80	V		
	3297	-60.80	-13	-47.80	-66.95	1.73	7.88	V		
	1664	-62.72	-13	-49.72	-67.20	1.21	5.68	Н		
	2496	-62.48	-13	-49.48	-66.74	1.54	5.80	Н		
NAC J. II.	3327	-60.44	-13	-47.44	-66.59	1.73	7.88	Н		
Middle	1664	-56.21	-13	-43.21	-60.69	1.21	5.68	V		
	2496	-59.70	-13	-46.70	-63.96	1.54	5.80	V		
	3327	-60.31	-13	-47.31	-66.46	1.73	7.88	V		
	1680	-61.19	-13	-48.19	-65.67	1.21	5.68	Н		
	2518	-62.83	-13	-49.83	-67.09	1.54	5.80	Н		
	3357	-60.01	-13	-47.01	-66.16	1.73	7.88	Н		
Highest	1680	-55.83	-13	-42.83	-60.31	1.21	5.68	V		
	2518	-58.76	-13	-45.76	-63.02	1.54	5.80	V		
	3357	-60.39	-13	-47.39	-66.54	1.73	7.88	V		

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	LTE Band 7 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	5004	-63.28	-25	-38.28	-73.49	3.03	13.24	Н		
	7504	-59.24	-25	-34.24	-68.69	3.56	13.01	Н		
	10004	-58.49	-25	-33.49	-67.94	3.56	13.01	Н		
	12504	-55.85	-25	-30.85	-65.30	3.56	13.01	Н		
Lowest	15006	-58.69	-25	-33.69	-68.21	3.92	13.44	Н		
Lowest	5004	-63.90	-25	-38.90	-74.11	3.03	13.24	V		
	7504	-57.76	-25	-32.76	-67.21	3.56	13.01	V		
	10004	-58.18	-25	-33.18	-67.63	3.56	13.01	V		
	12504	-46.40	-25	-21.40	-55.85	3.56	13.01	V		
	15006	-52.19	-25	-27.19	-61.71	3.92	13.44	V		
	5052	-63.47	-25	-38.47	-73.68	3.03	13.24	Н		
	7580	-43.48	-25	-18.48	-52.93	3.56	13.01	Н		
	10104	-57.42	-25	-32.42	-66.87	3.56	13.01	Н		
	12630	-50.73	-25	-25.73	-60.18	3.56	13.01	Н		
Middle	15156	-58.36	-25	-33.36	-67.88	3.92	13.44	Н		
Middle	5052	-60.67	-25	-35.67	-70.88	3.03	13.24	V		
	7580	-43.86	-25	-18.86	-53.31	3.56	13.01	>		
	10104	-56.60	-25	-31.60	-66.05	3.56	13.01	V		
	12630	-42.89	-25	-17.89	-52.34	3.56	13.01	V		
	15156	-50.52	-25	-25.52	-60.04	3.92	13.44	>		
	5104	-62.25	-25	-37.25	-72.46	3.03	13.24	Н		
	7652	-55.35	-25	-30.35	-64.80	3.56	13.01	Н		
	10204	-59.06	-25	-34.06	-68.51	3.56	13.01	Н		
	12756	-56.52	-25	-31.52	-65.97	3.56	13.01	Н		
l liet t	15306	-66.37	-25	-41.37	-75.89	3.92	13.44	Н		
Highest	5100	-61.74	-25	-36.74	-71.95	3.03	13.24	V		
	7652	-57.35	-25	-32.35	-66.80	3.56	13.01	V		
	10204	-57.23	-25	-32.23	-66.68	3.56	13.01	V		
	12756	-46.75	-25	-21.75	-56.20	3.56	13.01	V		
	15306	-57.62	-25	-32.62	-67.14	3.92	13.44	V		

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Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	1400	-66.78	-13	-53.78	-67.99	2.32	5.68	Н	
	2099	-60.42	-13	-47.42	-61.05	3.02	5.80	Н	
Lawaat	2798	-65.99	-13	-52.99	-68.45	3.27	7.88	Н	
Lowest	1400	-60.22	-13	-47.22	-61.43	2.32	5.68	V	
	2098	-56.92	-13	-43.92	-57.55	3.02	5.80	V	
	2798	-66.29	-13	-53.29	-68.75	3.27	7.88	V	
	1406	-66.04	-13	-53.04	-67.25	2.32	5.68	Н	
	2109.27	-53.69	-13	-40.69	-54.32	3.02	5.80	Н	
N 4: al all a	2812	-66.06	-13	-53.06	-68.52	3.27	7.88	Н	
Middle	1406	-61.56	-13	-48.56	-62.77	2.32	5.68	V	
	2110	-51.05	-13	-38.05	-51.68	3.02	5.80	V	
	2812	-66.09	-13	-53.09	-68.55	3.27	7.88	V	
	1414	-68.32	-13	-55.32	-69.53	2.32	5.68	Н	
	2120	-60.96	-13	-47.96	-61.59	3.02	5.80	Н	
I limb (2826	-66.09	-13	-53.09	-68.55	3.27	7.88	Н	
Highest	1413	-63.72	-13	-50.72	-64.93	2.32	5.68	V	
	2120	-57.43	-13	-44.43	-58.06	3.02	5.80	V	
	2826	-65.80	-13	-52.80	-68.26	3.27	7.88	V	

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