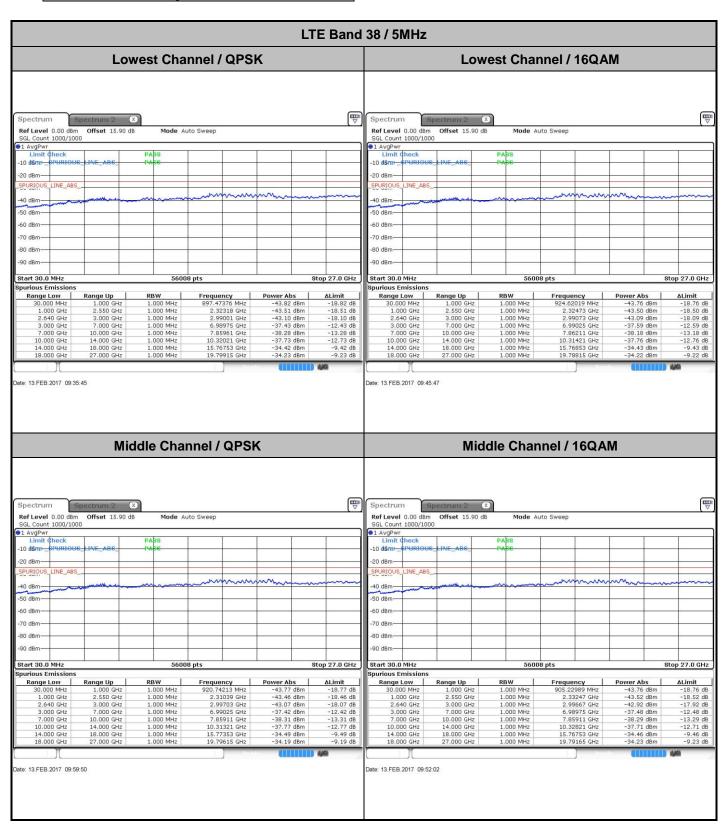


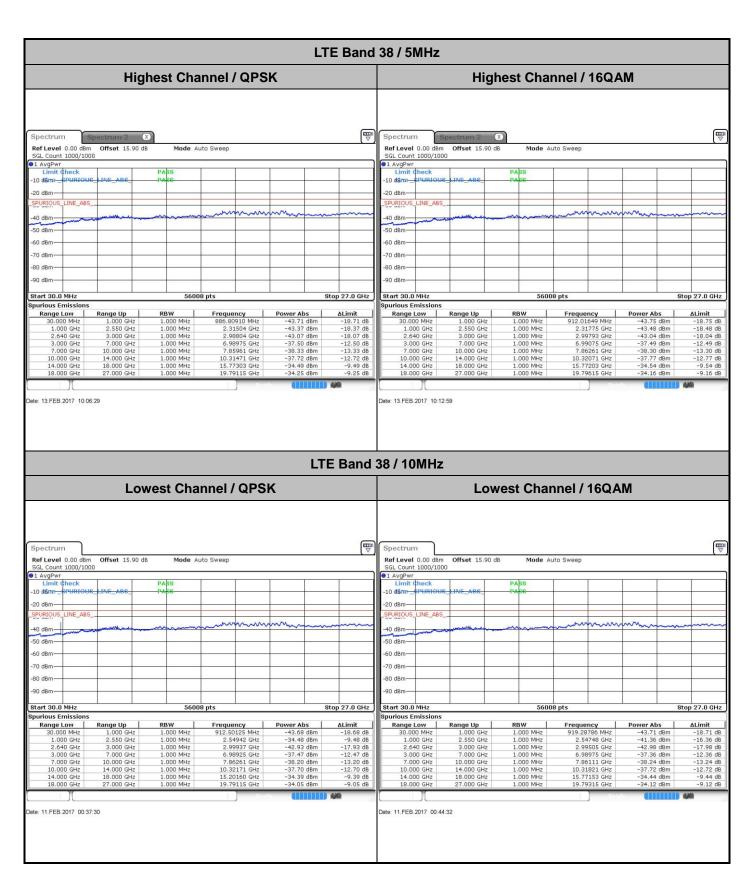
Conducted Spurious Emission



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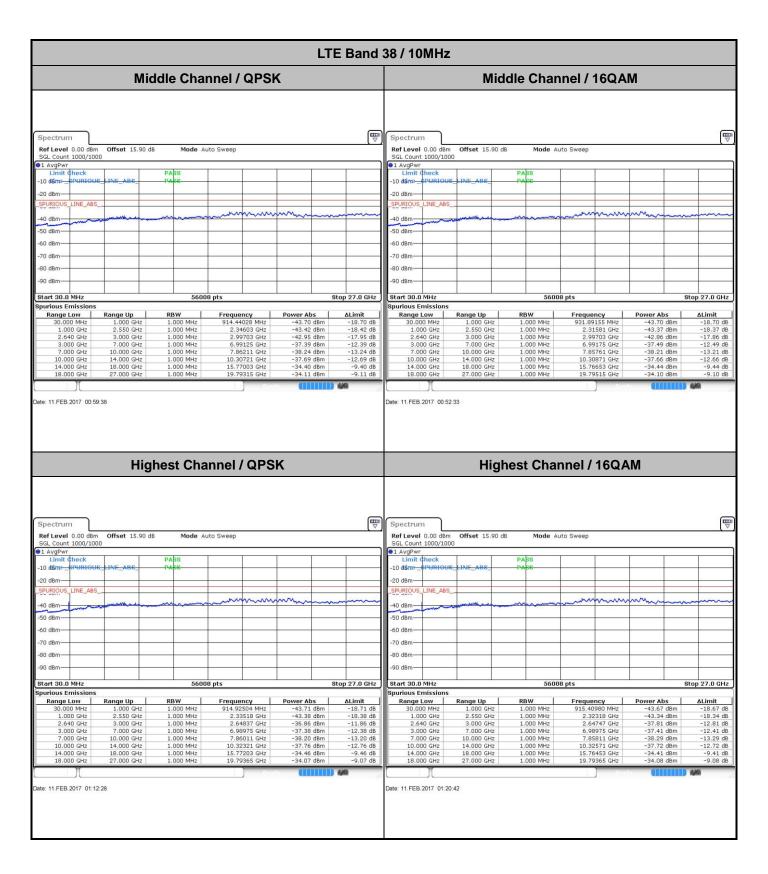
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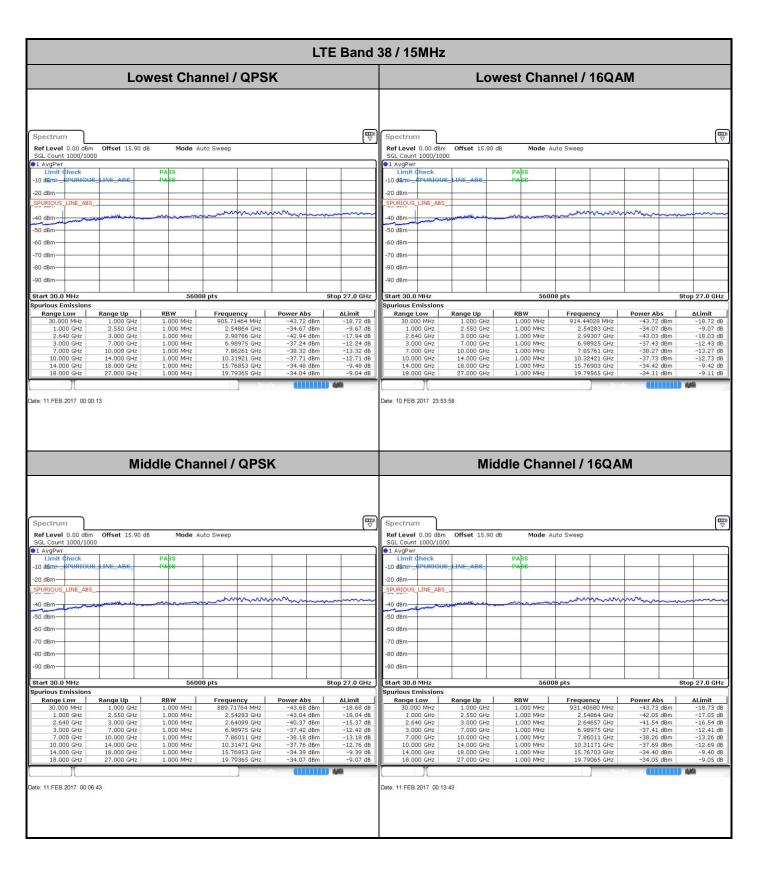
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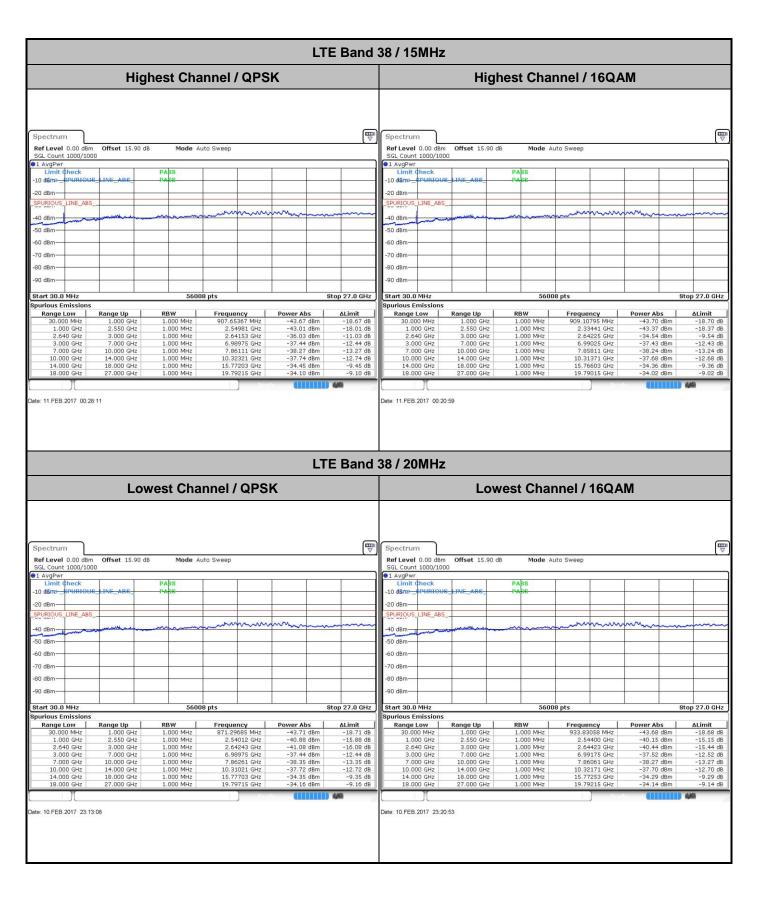


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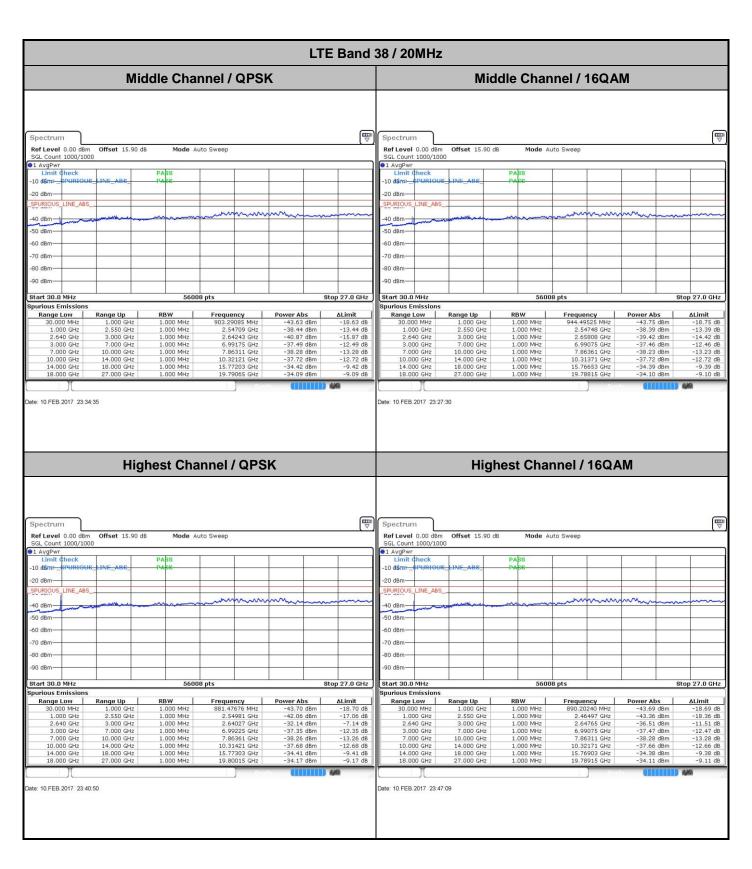






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Frequency Stability

Test C	Conditions	LTE Band 38 (QPSK) / Middle Channel	Limit
Tomporeture	Voltage	BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation	Result
(0)	(voit)	(ppm)	Result
50	Normal Voltage	0.0093	
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0093	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0095	
0	Normal Voltage	0.0089	
-10	Normal Voltage	0.0006	PASS
-20	Normal Voltage	0.0101	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0092	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0097	

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Note:

- 1. Normal Voltage =3.8 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.

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Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

	LTE Band 5 / 1.4MHz (Average)										
Channel	Mode	R	В	Horiz	ontal	Vertical					
Chamilei	Wiode	Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)				
Lowest		3	1	7.94	0.0062	15.51	0.0356				
Middle	QPSK	3	1	6.42	0.0044	14.11	0.0258				
Highest		3	1	5.24	0.0033	13.10	0.0204				
Lowest		3	1	7.25	0.0053	14.57	0.0286				
Middle	16QAM	3	1	5.66	0.0037	13.45	0.0221				
Highest		3	1	4.84	0.0030	12.51	0.0178				
Limit	ERP <	7W		Res	sult	PASS					

	LTE Band 5 / 3MHz (Average)										
Channel	Mode	R	В	Horizontal		Vertical					
Chamilei	Wiode	Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)				
Lowest		1	0	7.65	0.0058	15.29	0.0338				
Middle	QPSK	1	0	6.15	0.0041	13.91	0.0246				
Highest		1	0	5.15	0.0033	12.99	0.0199				
Lowest		1	8	6.65	0.0046	14.23	0.0265				
Middle	16QAM	1	8	5.48	0.0035	13.26	0.0212				
Highest		1	8	3.88	0.0024	12.12	0.0163				
Limit	ERP <	7W		Res	sult	PA	SS				

	LTE Band 5 / 5MHz (Average)										
Channel	Mode	R	В	Horizontal		Vertical					
Chaine	Wode	Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)				
Lowest		1	12	7.37	0.0055	14.83	0.0304				
Middle	QPSK	1	12	6.17	0.0041	13.99	0.0251				
Highest		1	12	5.23	0.0033	13.10	0.0204				
Lowest		1	12	6.62	0.0046	14.16	0.0261				
Middle	16QAM	1	12	5.85	0.0038	13.22	0.0210				
Highest		1	12	4.54	0.0028	12.26	0.0168				
Limit	ERP <	7W	·	Res	sult	PA	SS				

	LTE Band 5 / 10MHz (Average)										
Channel	Mode	R	В	Horiz	ontal	Vert	ical				
Chamilei	Wiode	Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)				
Lowest		1	25	6.87	0.0049	14.52	0.0283				
Middle	QPSK	1	25	6.11	0.0041	13.89	0.0245				
Highest		1	25	5.27	0.0034	13.18	0.0208				
Lowest		1	0	6.65	0.0046	14.17	0.0261				
Middle	16QAM	1	0	5.98	0.0040	13.72	0.0236				
Highest		1	0	5.41	0.0035	13.28	0.0213				
Limit	ERP <	ERP < 7W			sult	PASS					

	LTE Band 7 / 5MHz (Average)										
Channel	Mode	R	В	Horiz	ontal	Vert	ical				
Chamilei	Wode	Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)				
Lowest		1	12	15.41	0.0348	18.64	0.0731				
Middle	QPSK	1	12	14.75	0.0299	17.42	0.0552				
Highest		1	12	14.76	0.0299	17.17	0.0521				
Lowest		1	12	14.10	0.0257	17.18	0.0522				
Middle	16QAM	1	12	13.30	0.0214	15.99	0.0397				
Highest		1	12	13.24	0.0211	15.70	0.0372				
Limit	EIRP <	2W		Result		PASS					

	LTE Band 7 / 10MHz (Average)										
Channel	nel Mode		B	Horiz	ontal	Vert	ical				
Chamilei	Wiode	Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)				
Lowest		1	25	15.33	0.0341	18.44	0.0698				
Middle	QPSK	1	25	14.79	0.0301	17.31	0.0538				
Highest		1	25	14.69	0.0294	17.22	0.0527				
Lowest		1	25	14.26	0.0267	17.46	0.0557				
Middle	16QAM	1	25	13.26	0.0212	15.90	0.0389				
Highest		1	25	13.71	0.0235	16.22	0.0419				
Limit	EIRP <	2W		Res	sult	PASS					

	LTE Band 7 / 15MHz (Average)										
Channel	Mode	R	В	Horizontal		Vertical					
Chamilei	Ivioue	Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)				
Lowest		1	0	15.23	0.0333	18.54	0.0714				
Middle	QPSK	1	0	14.66	0.0292	17.59	0.0574				
Highest		1	0	14.80	0.0302	17.49	0.0561				
Lowest		1	74	13.59	0.0229	16.68	0.0466				
Middle	16QAM	1	74	13.47	0.0222	16.08	0.0406				
Highest		1	74	13.36	0.0217	15.87	0.0386				
Limit	EIRP <	2W		Res	sult	PASS					

	LTE Band 7 / 20MHz (Average)										
Channel	Mode	R	В	Horiz	ontal	Vert	ical				
Channel	Iviode	Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)				
Lowest		1	49	14.97	0.0314	18.30	0.0676				
Middle	QPSK	1	49	14.57	0.0286	17.49	0.0561				
Highest		1	49	15.05	0.0320	17.20	0.0525				
Lowest		1	49	13.90	0.0245	17.17	0.0521				
Middle	16QAM	1	49	13.39	0.0218	16.14	0.0411				
Highest		1	49	13.48	0.0223	15.86	0.0385				
Limit	EIRP <	: 2W		Res	sult	PASS					



	LTE Band 38 / 5MHz (Average)										
Channel	Mode	R	В	Horiz	ontal	Vert	ical				
Chamilei	Wode	Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)				
Lowest		1	12	18.28	0.0673	18.15	0.0653				
Middle	QPSK	1	12	17.54	0.0568	17.10	0.0513				
Highest		1	12	17.74	0.0594	17.04	0.0506				
Lowest		1	12	17.05	0.0507	16.84	0.0483				
Middle	16QAM	1	12	16.19	0.0416	15.69	0.0371				
Highest		1	12	16.89	0.0489	15.83	0.0383				
Limit	EIRP <	2W		Result		PASS					

	LTE Band 38 / 10MHz (Average)										
Channel	Mode	R	В	Horiz	ontal	Vert	ical				
Chamilei	Wiode	Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)				
Lowest		1	25	18.01	0.0632	17.51	0.0564				
Middle	QPSK	1	25	17.24	0.0530	16.70	0.0468				
Highest		1	25	17.67	0.0585	16.78	0.0476				
Lowest		1	25	16.89	0.0489	15.83	0.0383				
Middle	16QAM	1	25	16.57	0.0454	15.80	0.0380				
Highest		1	25	16.61	0.0458	15.68	0.0370				
Limit	EIRP <	: 2W		Res	sult	PASS					

	LTE Band 38 / 15MHz (Average)										
Channel	Mode	R	В	Horiz	ontal	Vert	ical				
Channel	Iviode	Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)				
Lowest		1	0	17.97	0.0627	17.74	0.0594				
Middle	QPSK	1	0	17.39	0.0548	16.99	0.0500				
Highest		1	0	17.43	0.0553	16.87	0.0486				
Lowest		1	37	16.58	0.0455	16.12	0.0409				
Middle	16QAM	1	37	16.55	0.0452	15.88	0.0387				
Highest]	1	37	16.82	0.0481	16.05	0.0403				
Limit	EIRP <	2W		Res	sult	PA	SS				

	LTE Band 38 / 20MHz (Average)													
Channel	Mode	R	RB	Horiz	ontal	Vert	ical							
Channel	Iviode	Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)							
Lowest		1	49	17.31	0.0538	17.18	0.0522							
Middle	QPSK	1	49	17.49	0.0561	16.83	0.0482							
Highest		1	49	17.33	0.0541	16.70	0.0468							
Lowest		1	49	16.43	0.0440	16.31	0.0428							
Middle	16QAM	1	49	16.25	0.0422	15.62	0.0365							
Highest		1	49	16.07	0.0405	15.32	0.0340							
Limit	EIRP <	: 2W		Res	sult	PA	SS							

Radiated Spurious Emission

LTE Band 5

			L	TE Band 5 /	1.4MHz / QP	SK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1696	-66.20	-13	-53.20	-70.44	-67.8	1.00	4.75	Н
	2544	-67.12	-13	-54.12	-76.47	-69.1	1.30	5.44	Н
	3390	-65.40	-13	-52.40	-77.46	-69.2	1.57	7.52	Н
									Н
									Н
									Н
Llighoot									Н
Highest	1696	-68.50	-13	-55.50	-72.03	-70.1	1.00	4.75	V
	2543	-66.42	-13	-53.42	-76.35	-68.4	1.30	5.43	V
	3390	-66.40	-13	-53.40	-77.43	-70.2	1.57	7.52	V
									V
									V
									V
									V

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

				LTE Band 5	/ 3MHz / QPS	SK			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1648	-70.94	-13	-57.94	-75.42	-72.7	0.98	4.89	Н
	2472	-65.62	-13	-52.62	-74.81	-67.5	1.28	5.32	Н
	3296	-65.59	-13	-52.59	-77.58	-69	1.54	7.10	Н
									Н
									Н
									Н
Lowoot									Н
Lowest	1648	-71.94	-13	-58.94	-75.04	-73.7	0.98	4.89	V
	2472	-65.72	-13	-52.72	-75.7	-67.6	1.28	5.32	V
	3296	-65.99	-13	-52.99	-77.38	-69.4	1.54	7.10	V
									V
									V
									V
		·							V

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

SPORTON INTERNATIONAL INC.

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				LTE Band 5	/ 5MHz / QPS	SK			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1648	-70.04	-13	-57.04	-74.68	-71.8	0.98	4.89	Н
	2472	-66.32	-13	-53.32	-75.47	-68.2	1.28	5.32	Н
	3296	-65.79	-13	-52.79	-77.7	-69.2	1.54	7.10	Н
									Н
									Н
									Н
Lowest									Н
Lowest	1648	-72.74	-13	-59.74	-75.5	-74.5	0.98	4.89	V
	2472	-63.42	-13	-50.42	-73.68	-65.3	1.28	5.32	V
	3296	-66.59	-13	-53.59	-77.58	-70	1.54	7.10	V
									V
									V
									V
									V

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

			L	TE Band 5 /	10MHz / QP	SK			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1664	-66.99	-13	-53.99	-71.45	-68.7	0.98	4.84	Н
	2496	-63.25	-13	-50.25	-73.5	-65.2	1.29	5.39	Н
	3326	-65.67	-13	-52.67	-77.5	-69.2	1.55	7.23	Н
									Н
									Н
									Н
Middle									Н
Middle	1664	-70.89	-13	-57.89	-73.74	-72.6	0.98	4.84	V
	2496	-64.75	-13	-51.75	-74.88	-66.7	1.29	5.39	V
	3326	-66.47	-13	-53.47	-77.5	-70	1.55	7.23	V
									V
									V
									V
									V

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

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LTE Band 7

				LTE Band 7	5MHz/QPS	SK			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	5130	-59.19	-25	-34.19	-78.45	-66.48	2.41	9.70	Н
	7696	-54.37	-25	-29.37	-79.13	-63.92	2.37	11.92	Н
	10261	-50.81	-25	-25.81	-79.88	-60.42	2.69	12.30	Н
									Н
									Н
									Н
Llighoot									Н
Highest	5130	-60.17	-25	-35.17	-78.29	-67.46	2.41	9.70	V
	7696	-54.97	-25	-29.97	-79.1	-64.52	2.37	11.92	V
	10261	-52.62	-25	-27.62	-79.62	-62.23	2.69	12.30	V
									V
									V
									V
									V

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

			L	TE Band 7 /	10MHz / QP	SK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	5000	-59.18	-25	-34.18	-78.16	-66.54	2.34	9.70	Н
	7500	-54.11	-25	-29.11	-79.28	-63.48	2.43	11.80	Н
	10000	-51.45	-25	-26.45	-80.28	-60.95	2.70	12.20	Н
									Н
									Н
									Н
Lowest									Н
Lowest	5000	-60.49	-25	-35.49	-77.97	-67.85	2.34	9.70	V
	7500	-55.04	-25	-30.04	-79.34	-64.41	2.43	11.80	V
	10000	-54.02	-25	-29.02	-80.26	-63.52	2.70	12.20	V
									V
									V
									V
		•				_			V

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

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

			L	TE Band 7 /	15MHz / QP	SK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	5001	-59.02	-25	-34.02	-77.96	-66.38	2.34	9.70	Н
	7502	-53.84	-25	-28.84	-79.05	-63.21	2.43	11.80	Н
	10003	-51.68	-25	-26.68	-80.54	-61.18	2.70	12.20	Н
									Н
									Н
									Н
Lowest									Н
Lowest	5001	-60.51	-25	-35.51	-78.01	-67.87	2.34	9.70	V
	7502	-53.68	-25	-28.68	-77.9	-63.05	2.43	11.80	V
	10003	-54.27	-25	-29.27	-80.5	-63.77	2.70	12.20	V
									V
									V
									V
									V

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

			L	TE Band 7 /	20MHz / QP	SK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	5020	-59.03	-25	-34.03	-78.05	-66.38	2.35	9.70	Н
	7530	-54.61	-25	-29.61	-79.6	-64.01	2.42	11.82	Н
	10040	-51.62	-25	-26.62	-80.52	-61.14	2.70	12.22	Н
									Н
									Н
									Н
Louiset									Н
Lowest	5020	-60.52	-25	-35.52	-78.15	-67.87	2.35	9.70	V
	7530	-55.34	-25	-30.34	-79.47	-64.74	2.42	11.82	V
	10040	-54.00	-25	-29.00	-80.31	-63.52	2.70	12.22	V
									V
									V
									V
									V

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

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LTE Band 38

			L	TE Band 38	/ 5MHz / QP	SK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	5140	-59.52	-25	-34.52	-78.62	-66.8	2.42	9.70	Н
	7710	-54.64	-25	-29.64	-79.21	-64.2	2.36	11.93	Н
	10280	-51.18	-25	-26.18	-79.96	-60.8	2.69	12.31	Н
									Н
									Н
									Н
Lowest									Н
Lowest	5140	-59.92	-25	-34.92	-77.91	-67.2	2.42	9.70	V
	7710	-55.64	-25	-30.64	-79.28	-65.2	2.36	11.93	V
	10280	-53.48	-25	-28.48	-80.04	-63.1	2.69	12.31	V
									V
									V
									V
									V

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

			Ľ	TE Band 38	/ 10MHz / QF	PSK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	5140	-59.82	-25	-34.82	-78.53	-67.1	2.42	9.70	Н
	7710	-54.64	-25	-29.64	-79.15	-64.2	2.36	11.93	Н
	10280	-51.88	-25	-26.88	-80.11	-61.5	2.69	12.31	Н
									Н
									Н
									Н
Lowest									Н
Lowest	5140	-60.52	-25	-35.52	-78.38	-67.8	2.42	9.70	V
	7710	-55.04	-25	-30.04	-79.01	-64.6	2.36	11.93	V
	10280	-53.18	-25	-28.18	-79.86	-62.8	2.69	12.31	V
									V
									V
									V
									V

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

SPORTON INTERNATIONAL INC.

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			Ľ	TE Band 38	/ 15MHz / QF	PSK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	5175	-59.94	-25	-34.94	-79.05	-67.2	2.44	9.70	Н
	7763	-54.89	-25	-29.89	-79.39	-64.5	2.34	11.96	Н
	10350	-51.05	-25	-26.05	-79.98	-60.7	2.69	12.34	Н
									Н
									Н
									Н
Middle									Н
ivildale	5175	-60.94	-25	-35.94	-78.95	-68.2	2.44	9.70	V
	7763	-55.39	-25	-30.39	-78.93	-65	2.34	11.96	V
	10350	-53.05	-25	-28.05	-80	-62.7	2.69	12.34	V
									V
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Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 38 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5170	-59.73	-25	-34.73	-78.99	-67	2.43	9.70	Н
	7755	-54.59	-25	-29.59	-79.16	-64.2	2.35	11.95	Н
	10340	-51.16	-25	-26.16	-80.04	-60.8	2.69	12.34	Н
									Н
									Н
									Н
									Н
	5170	-60.83	-25	-35.83	-78.85	-68.1	2.43	9.70	V
	7755	-54.79	-25	-29.79	-78.89	-64.4	2.35	11.95	V
	10340	-53.06	-25	-28.06	-80.05	-62.7	2.69	12.34	V
									V
									V
									V
									V

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