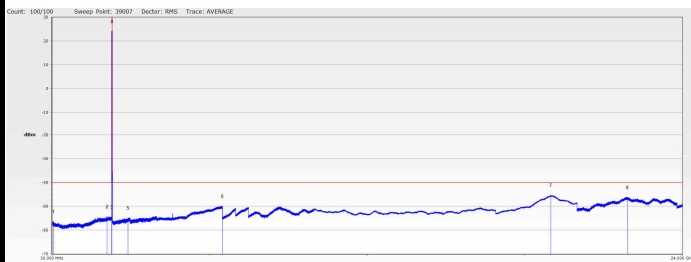


Conducted Spurious Emission

LTE Band 30 / 5MHz

Lowest Channel / QPSK

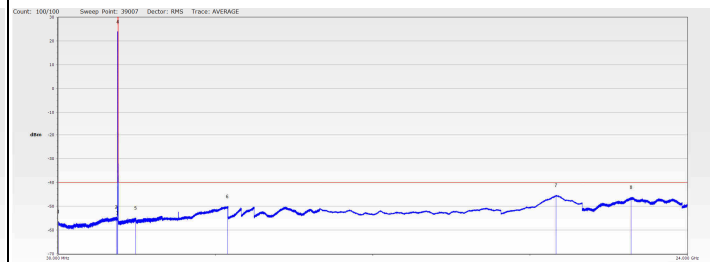


Item	Range Low	Range Up	RBW	VBW	Frequency	Power Abs	Limit	Limit	Path Loss Factor	DCC	APS
1	30.000 MHz	1.000 GHz	1 MHz	3 MHz	704.63500 MHz	-55.494 dBm	-15.494 dB	-40.000 dBm	5.055 dB	---	---
2	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.27391 GHz	-54.334 dBm	-14.334 dB	-40.000 dBm	6.230 dB	---	---
3	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.292 GHz	-54.449 dBm	-14.449 dB	-40.000 dBm	6.222 dB	---	---
4	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.31038 GHz	-53.916 dBm	-6.094 dB	30.000 dBm	6.235 dB	---	---
5	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.328 GHz	-54.711 dBm	-14.711 dB	-40.000 dBm	6.486 dB	---	---
6	1.000 GHz	1.000 GHz	1 MHz	3 MHz	6.49960 GHz	-50.024 dBm	-10.024 dB	-40.000 dBm	8.880 dB	---	---
7	1.000 GHz	1.000 GHz	1 MHz	3 MHz	18.99833 GHz	-45.328 dBm	-5.328 dB	-40.000 dBm	10.336 dB	---	---
8	1.000 GHz	1.000 GHz	1 MHz	3 MHz	21.88700 GHz	-46.098 dBm	-6.098 dB	-40.000 dBm	12.097 dB	---	---

Note: DCC = Duty Cycle Correction / APS = Antenna Port Summation
Ver 1.1 (2014/12/29)

2020-01-05 00:44:23

Middle Channel / QPSK

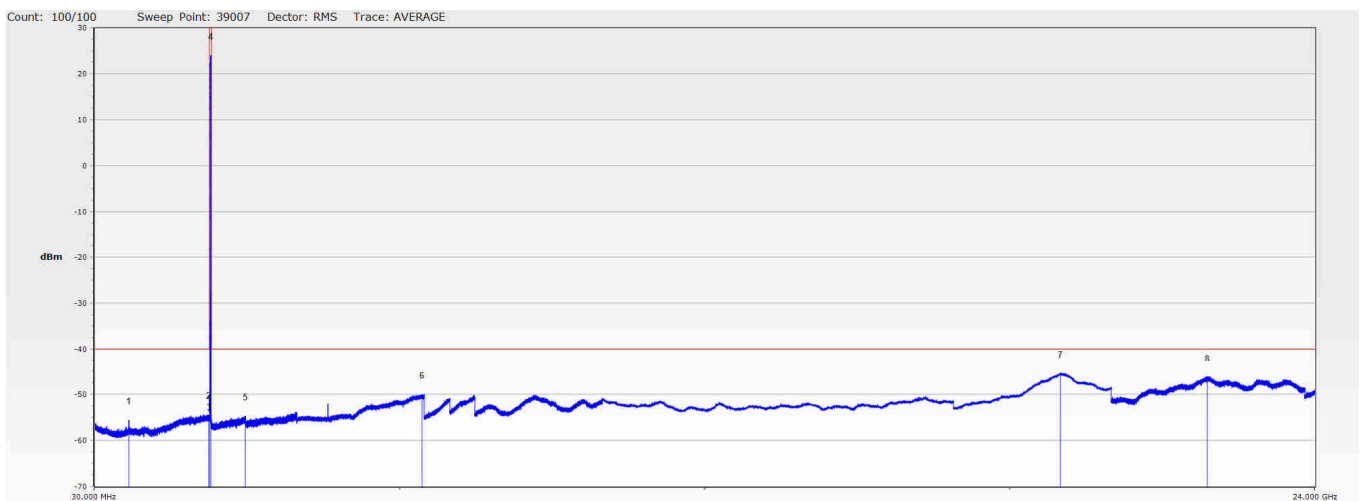


Item	Range Low	Range Up	RBW	VBW	Frequency	Power Abs	Limit	Limit	Path Loss Factor	DCC	APS
1	30.000 MHz	1.000 GHz	1 MHz	3 MHz	704.63500 MHz	-55.494 dBm	-15.494 dB	-40.000 dBm	5.055 dB	---	---
2	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.27391 GHz	-54.334 dBm	-14.334 dB	-40.000 dBm	6.230 dB	---	---
3	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.292 GHz	-54.449 dBm	-14.449 dB	-40.000 dBm	6.222 dB	---	---
4	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.31038 GHz	-53.916 dBm	-6.094 dB	30.000 dBm	6.235 dB	---	---
5	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.328 GHz	-54.711 dBm	-14.711 dB	-40.000 dBm	6.486 dB	---	---
6	1.000 GHz	1.000 GHz	1 MHz	3 MHz	6.49960 GHz	-50.024 dBm	-10.024 dB	-40.000 dBm	8.880 dB	---	---
7	1.000 GHz	1.000 GHz	1 MHz	3 MHz	18.99833 GHz	-45.328 dBm	-5.328 dB	-40.000 dBm	10.336 dB	---	---
8	1.000 GHz	1.000 GHz	1 MHz	3 MHz	21.88700 GHz	-46.098 dBm	-6.098 dB	-40.000 dBm	12.097 dB	---	---

Note: DCC = Duty Cycle Correction / APS = Antenna Port Summation
Ver 1.1 (2014/12/29)

2020-01-05 00:44:42

Highest Channel / QPSK



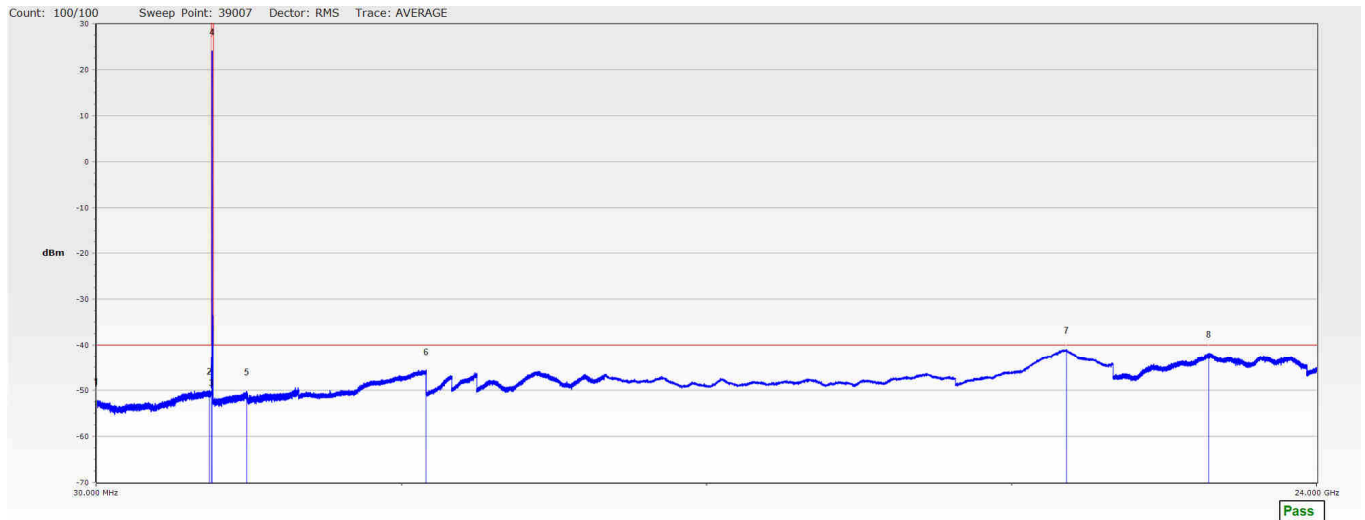
Item	Range Low	Range Up	RBW	VBW	Frequency	Power Abs	Limit	Limit	Path Loss Factor	DCC	APS
1	30.000 MHz	1.000 GHz	1 MHz	3 MHz	704.63500 MHz	-55.494 dBm	-15.494 dB	-40.000 dBm	5.055 dB	---	---
2	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.27391 GHz	-54.334 dBm	-14.334 dB	-40.000 dBm	6.230 dB	---	---
3	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.292 GHz	-54.449 dBm	-14.449 dB	-40.000 dBm	6.222 dB	---	---
4	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.31038 GHz	-53.916 dBm	-6.094 dB	30.000 dBm	6.235 dB	---	---
5	1.000 GHz	1.000 GHz	1 MHz	3 MHz	2.328 GHz	-54.711 dBm	-14.711 dB	-40.000 dBm	6.486 dB	---	---
6	1.000 GHz	1.000 GHz	1 MHz	3 MHz	6.49960 GHz	-50.024 dBm	-10.024 dB	-40.000 dBm	8.880 dB	---	---
7	1.000 GHz	1.000 GHz	1 MHz	3 MHz	18.99833 GHz	-45.328 dBm	-5.328 dB	-40.000 dBm	10.336 dB	---	---
8	1.000 GHz	1.000 GHz	1 MHz	3 MHz	21.88700 GHz	-46.098 dBm	-6.098 dB	-40.000 dBm	12.097 dB	---	---

Note: DCC = Duty Cycle Correction / APS = Antenna Port Summation



LTE Band 30 / 10MHz

Middle Channel / QPSK



Item	Range Low	Range Up	RBW	VBW	Frequency	Power Abs	Limit	Limit	Path Loss Factor	DCC	APS
1	30.000 MHz	1.000 GHz	1 MHz	3 MHz	36.30500 MHz	-32.111 dBm	-12.111 dB	-40.000 dBm	5.055 dB	---	---
2	1.000 GHz	2.288 GHz	1 MHz	3 MHz	2.25238 GHz	-49.993 dBm	-9.993 dB	-40.000 dBm	6.220 dB	---	---
3	2.288 GHz	2.292 GHz	1 MHz	3 MHz	2.29114 GHz	-50.049 dBm	-10.049 dB	-40.000 dBm	6.222 dB	---	---
4	2.292 GHz	2.328 GHz	1 MHz	3 MHz	2.30559 GHz	-24.135 dBm	-5.865 dB	-30.000 dBm	6.235 dB	---	---
5	2.328 GHz	3.000 GHz	1 MHz	3 MHz	2.97890 GHz	-50.157 dBm	-10.157 dB	-40.000 dBm	6.486 dB	---	---
6	3.000 GHz	10.000 GHz	1 MHz	3 MHz	6.50380 GHz	-45.511 dBm	-5.511 dB	-40.000 dBm	8.880 dB	---	---
7	10.000 GHz	20.000 GHz	1 MHz	3 MHz	19.07667 GHz	-40.905 dBm	-9.905 dB	-40.000 dBm	10.336 dB	---	---
8	20.000 GHz	24.000 GHz	1 MHz	3 MHz	21.86950 GHz	-41.665 dBm	-1.665 dB	-40.000 dBm	12.097 dB	---	---

Note: DCC = Duty Cycle Correction / APS = Antenna Port Summation

Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0031	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0039	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0040	
20	Battery End Point	0.0042	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jake	Temperature :	21~25°C
		Relative Humidity :	51~53%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0 for Ant 0								
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)
Lowest	4616	-44.33	-40	-4.33	-55.79	2.84	14.30	H
	6912	-54.57	-40	-14.57	-64.51	3.49	13.43	H
	9222	-60.60	-40	-20.60	-70.84	3.85	14.09	H
	4616	-43.35	-40	-3.35	-54.81	2.84	14.30	V
	6912	-51.64	-40	-11.64	-61.58	3.49	13.43	V
	9222	-60.65	-40	-20.65	-70.89	3.85	14.09	V
Middle	4616	-46.16	-40	-6.16	-57.62	2.84	14.30	H
	6926	-54.52	-40	-14.52	-64.46	3.49	13.43	H
	9236	-60.74	-40	-20.74	-70.98	3.85	14.09	H
	4616	-45.46	-40	-5.46	-56.92	2.84	14.30	V
	6926	-50.80	-40	-10.80	-60.74	3.49	13.43	V
	9236	-60.41	-40	-20.41	-70.65	3.85	14.09	V
Highest	4616	-42.39	-40	-2.39	-53.85	2.84	14.30	H
	6926	-54.74	-40	-14.74	-64.68	3.49	13.43	H
	9236	-60.51	-40	-20.51	-70.75	3.85	14.09	H
	4616	-43.20	-40	-3.20	-54.66	2.84	14.30	V
	6926	-54.86	-40	-14.86	-64.80	3.49	13.43	V
	9236	-60.54	-40	-20.54	-70.78	3.85	14.09	V

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

LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0 for Ant 0								
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)
Middle	4616	-42.78	-40	-2.78	-54.24	2.84	14.30	H
	6912	-51.54	-40	-11.54	-61.48	3.49	13.43	H
	9222	-60.39	-40	-20.39	-70.63	3.85	14.09	H
	4616	-43.33	-40	-3.33	-54.79	2.84	14.30	V
	6912	-47.41	-40	-7.41	-57.35	3.49	13.43	V
	9222	-60.62	-40	-20.62	-70.86	3.85	14.09	V

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