

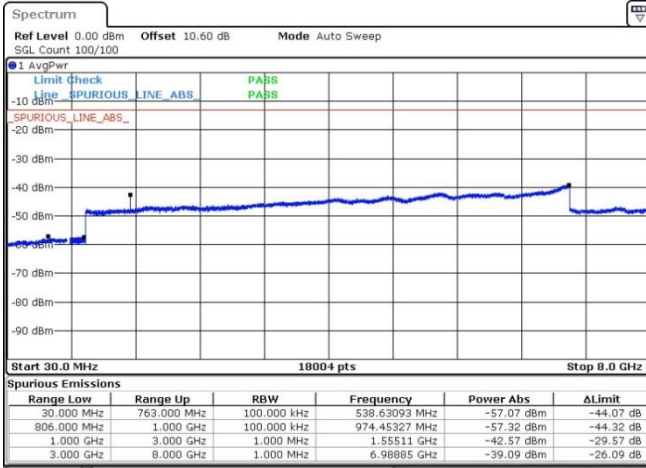


# Conducted Spurious Emission

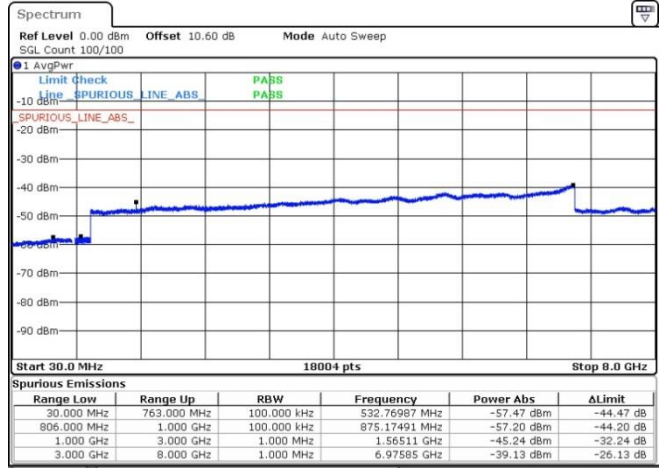
## LTE Band 13 / 5MHz

### Lowest Channel / QPSK

### Highest Channel / QPSK

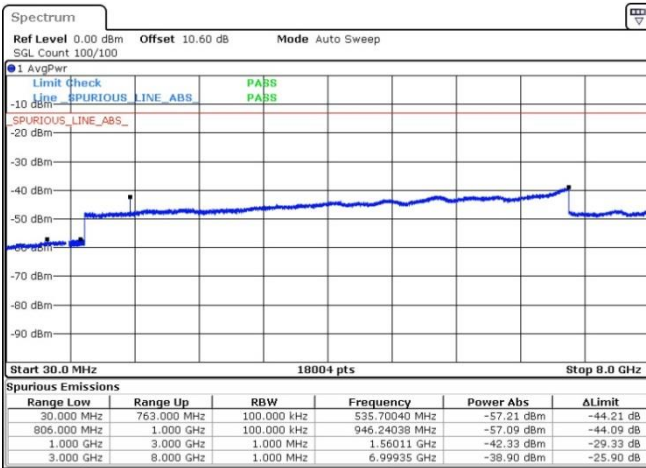


Date: 21.MAY.2019 10:15:30

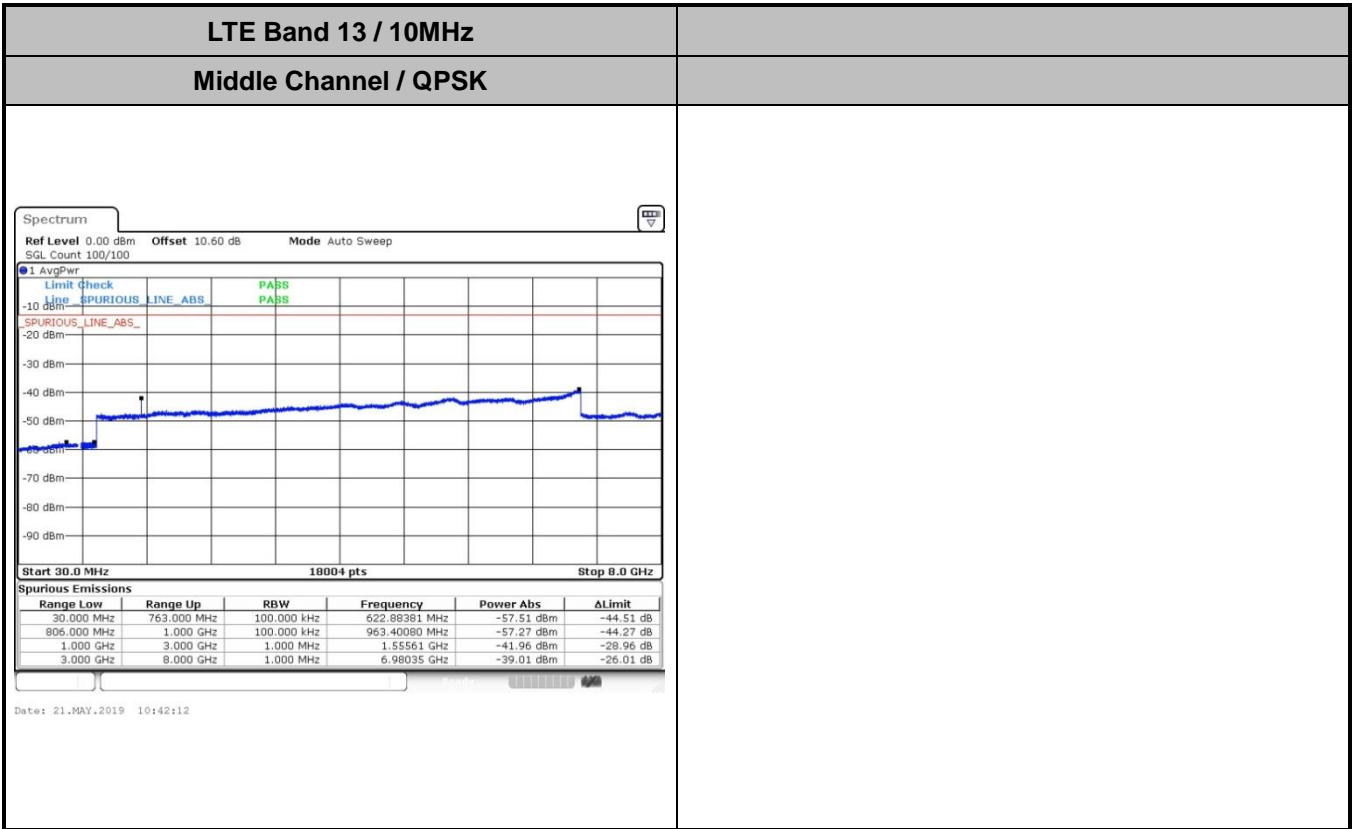


Date: 21.MAY.2019 10:28:07

### Middle Channel / QPSK



Date: 21.MAY.2019 10:18:44





Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0045	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0075	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =14.0 V. ; Battery End Point (BEP) =14.0 V. ; Maximum Voltage =16.0 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



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

### ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	0	22.10	0.1622	23.10	0.2042
Middle		3	0	22.42	0.1746	23.42	0.2198
Highest		3	0	22.76	0.1888	23.76	0.2377
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	22.07	0.1611	23.07	0.2028
Middle		1	8	22.49	0.1774	23.49	0.2234
Highest		1	8	22.61	0.1824	23.61	0.2296
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	22.25	0.1679	23.25	0.2113
Middle		1	24	22.41	0.1742	23.41	0.2193
Highest		1	24	22.66	0.1845	23.66	0.2323
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	22.43	0.1750	23.43	0.2203
Middle		1	25	22.57	0.1807	23.57	0.2275
Highest		1	25	22.83	0.1919	23.83	0.2415
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	22.42	0.1746	23.42	0.2198
Middle		1	37	22.72	0.1871	23.72	0.2355
Highest		1	37	22.69	0.1858	23.69	0.2339
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.12	0.1629	23.12	0.2051
Middle		1	49	22.51	0.1782	23.51	0.2244
Highest		1	49	22.86	0.1932	23.86	0.2432
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = 5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	22.62	0.1828	27.62	0.5781
Middle		3	1	22.73	0.1875	27.73	0.5929
Highest		3	1	22.98	0.1986	27.98	0.6281
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = 5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	14	22.57	0.1807	27.57	0.5715
Middle		1	14	22.78	0.1897	27.78	0.5998
Highest		1	14	22.40	0.1738	27.40	0.5495
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = 5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	22.66	0.1845	27.66	0.5834
Middle		1	24	22.24	0.1675	27.24	0.5297
Highest		1	24	22.80	0.1905	27.80	0.6026
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = 5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	22.65	0.1841	27.65	0.5821
Middle		1	25	22.80	0.1905	27.80	0.6026
Highest		1	25	23.04	0.2014	28.04	0.6368
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = 5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	22.81	0.1910	27.81	0.6039
Middle		1	37	23.06	0.2023	28.06	0.6397
Highest		1	37	23.20	0.2089	28.20	0.6607
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = 5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.79	0.1901	27.79	0.6012
Middle		1	49	23.22	0.2099	28.22	0.6637
Highest		1	49	23.19	0.2084	28.19	0.6592
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.24	0.2109	22.09	0.1618
Middle		1	0	22.54	0.1795	21.39	0.1377
Highest		1	0	22.72	0.1871	21.57	0.1435
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.07	0.2028	21.92	0.1556
Middle		1	0	22.77	0.1892	21.62	0.1452
Highest		1	0	22.43	0.1750	21.28	0.1343
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.19	0.2084	22.04	0.1600
Middle		1	0	22.52	0.1786	21.37	0.1371
Highest		1	0	22.30	0.1698	21.15	0.1303
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	23.26	0.2118	22.11	0.1626
Middle		1	25	22.68	0.1854	21.53	0.1422
Highest		1	25	22.66	0.1845	21.51	0.1416
Limit	ERP < 7W			Result		PASS	





LTE Band 7 / 5MHz (Average) (GT - LC = 9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	22.57	0.1807	31.57	1.4355
Middle		1	12	22.30	0.1698	31.30	1.3490
Highest		1	12	22.42	0.1746	31.42	1.3868
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = 9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	22.49	0.1774	31.49	1.4093
Middle		1	25	22.55	0.1799	31.55	1.4289
Highest		1	25	22.66	0.1845	31.66	1.4655
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = 9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	22.73	0.1875	31.73	1.4894
Middle		1	37	22.45	0.1758	31.45	1.3964
Highest		1	37	22.57	0.1807	31.57	1.4355
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz (Average) (GT - LC = 9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.78	0.1897	31.78	1.5066
Middle		1	49	22.56	0.1803	31.56	1.4322
Highest		1	49	22.55	0.1799	31.55	1.4289
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = 5.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	22.90	0.1950	26.25	0.4217
Middle		3	1	23.55	0.2265	26.90	0.4898
Highest		3	1	23.61	0.2296	26.96	0.4966
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = 5.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.65	0.1841	26.00	0.3981
Middle		1	0	23.37	0.2173	26.72	0.4699
Highest		1	0	23.26	0.2118	26.61	0.4581
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = 5.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	22.92	0.1959	26.27	0.4236
Middle		1	12	23.53	0.2254	26.88	0.4875
Highest		1	12	23.56	0.2270	26.91	0.4909
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 10MHz (Average) (GT - LC = 5.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	23.25	0.2113	26.60	0.4571
Middle		1	25	23.56	0.2270	26.91	0.4909
Highest		1	25	23.64	0.2312	26.99	0.5000
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = 5.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.35	0.2163	26.70	0.4677
Middle		1	12	22.65	0.1841	26.00	0.3981
Highest		1	12	22.64	0.1837	25.99	0.3972
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = 5.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	25	23.40	0.2188	26.75	0.4732
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



Radiated Spurious Emission

Part 24E LTE Band 2

LTE Band 2/ 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)
Lowest	3721	-53.05	-13	-40.05	-71.17	-63.33	1.98	12.27	H
	5583	-44.75	-13	-31.75	-65.48	-54.93	2.14	12.32	H
	7438	-50.33	-13	-37.33	-75.87	-58.29	2.15	10.11	H
									H
	3721	-46.94	-13	-33.94	-65.58	-57.22	1.98	12.27	V
	5583	-39.85	-13	-26.85	-61.23	-50.03	2.14	12.32	V
	7438	-48.33	-13	-35.33	-73.79	-56.29	2.15	10.11	V
									V
Middle	3763	-51.70	-13	-38.70	-69.9	-61.94	2.01	12.24	H
	5639	-41.41	-13	-28.41	-62.34	-51.68	2.12	12.39	H
	7522	-50.27	-13	-37.27	-75.56	-58.23	2.11	10.08	H
									H
	3763	-45.93	-13	-32.93	-64.63	-56.17	2.01	12.24	V
	5639	-35.83	-13	-22.83	-57.38	-46.10	2.12	12.39	V
	7522	-46.91	-13	-33.91	-72.1	-54.87	2.11	10.08	V
									V
Highest	3798	-53.03	-13	-40.03	-71.3	-63.23	2.02	12.22	H
	5702	-38.09	-13	-25.09	-59.37	-48.46	2.11	12.48	H
	7599	-50.22	-13	-37.22	-75.01	-58.46	2.11	10.36	H
									H
	3798	-45.65	-13	-32.65	-64.41	-55.85	2.02	12.22	V
	5702	-35.39	-13	-22.39	-57.24	-45.76	2.11	12.48	V
	7599	-46.16	-13	-33.16	-70.98	-54.40	2.11	10.36	V
									V

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



**Part 22H LTE Band 5**

LTE Band 5 / 10MHz / QPSK										
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)	
Lowest	1656	-56.60	-13	-43.60	-67.33	-62.01	1.23	8.79	H	
	2488	-60.35	-13	-47.35	-74.84	-67.25	1.44	10.49	H	
	3320	-59.79	-13	-46.79	-75.7	-67.78	1.72	11.86	H	
	4144	-58.27	-13	-45.27	-76.18	-66.14	2.08	12.10	H	
	5808	-55.53	-13	-42.53	-77.25	-63.93	2.08	12.63	H	
										H
										H
	1656	-56.47	-13	-43.47	-67.07	-61.88	1.23	8.79	V	
	2488	-57.00	-13	-44.00	-71.73	-63.90	1.44	10.49	V	
	3320	-55.62	-13	-42.62	-71.99	-63.61	1.72	11.86	V	
	4144	-56.19	-13	-43.19	-74.7	-64.06	2.08	12.10	V	
	5808	-52.95	-13	-39.95	-75.16	-61.35	2.08	12.63	V	
										V
										V
Middle	1672	-62.69	-13	-49.69	-73.45	-68.16	1.24	8.85	H	
	2512	-61.12	-13	-48.12	-75.59	-68.04	1.44	10.51	H	
	3344	-60.26	-13	-47.26	-76.01	-68.30	1.74	11.93	H	
	4184	-57.61	-13	-44.61	-75.49	-65.49	2.07	12.10	H	
										H
										H
										H
	1672	-59.48	-13	-46.48	-70.13	-64.95	1.24	8.85	V	
	2512	-55.51	-13	-42.51	-70.17	-62.43	1.44	10.51	V	
	3344	-58.71	-13	-45.71	-74.99	-66.75	1.74	11.93	V	
	4184	-55.78	-13	-42.78	-74.32	-63.66	2.07	12.10	V	
										V
										V
										V



Highest	1688	-55.14	-13	-42.14	-65.93	-60.66	1.24	8.91	H
	2536	-60.99	-13	-47.99	-75.48	-67.93	1.44	10.53	H
	3376	-60.98	-13	-47.98	-76.53	-69.09	1.77	12.03	H
	4224	-57.37	-13	-44.37	-75.39	-65.26	2.06	12.10	H
	5912	-54.94	-13	-41.94	-76.62	-63.51	2.06	12.78	H
									H
									H
	1688	-53.72	-13	-40.72	-64.41	-59.24	1.24	8.91	V
	2536	-56.44	-13	-43.44	-71.14	-63.38	1.44	10.53	V
	3376	-58.13	-13	-45.13	-74.29	-66.24	1.77	12.03	V
	4224	-54.88	-13	-41.88	-73.59	-62.77	2.06	12.10	V
	5912	-52.84	-13	-39.84	-75.04	-61.41	2.06	12.78	V
									V
									V

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



**Part 27L LTE Band 4**

LTE Band 4/ 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)
Lowest	3441	-43.66	-13	-30.66	-60.23	-54.06	1.82	12.22	H
	5163	-43.79	-13	-30.79	-64.45	-53.63	2.29	12.13	H
	6878	-45.82	-13	-32.82	-69.57	-54.46	2.38	11.02	H
									H
									H
									H
	3441	-35.24	-13	-22.24	-52.39	-45.64	1.82	12.22	V
	5163	-39.41	-13	-26.41	-60.63	-49.25	2.29	12.13	V
	6878	-38.41	-13	-25.41	-62.74	-47.05	2.38	11.02	V
									V
									V
									V
Middle	3462	-42.84	-13	-29.84	-59.63	-53.29	1.84	12.29	H
	5198	-42.78	-13	-29.78	-63.47	-52.64	2.28	12.14	H
	6927	-45.35	-13	-32.35	-69.24	-53.93	2.40	10.97	H
	8663	-48.71	-13	-35.71	-76.18	-59.05	2.20	12.53	H
									H
									H
									H
	3462	-35.60	-13	-22.60	-52.92	-46.05	1.84	12.29	V
	5198	-39.10	-13	-26.10	-60.34	-48.96	2.28	12.14	V
	6927	-36.51	-13	-23.51	-61.01	-45.09	2.40	10.97	V
	8663	-47.09	-13	-34.09	-74.26	-57.43	2.20	12.53	V
									V
								V	
								V	



Highest	3490	-43.30	-13	-30.30	-60.38	-53.81	1.86	12.37	H
	5233	-41.54	-13	-28.54	-62.27	-51.42	2.26	12.15	H
	6983	-47.43	-13	-34.43	-71.49	-55.93	2.41	10.92	H
	8726	-48.33	-13	-35.33	-76.2	-58.62	2.22	12.51	H
									H
									H
									H
	3490	-37.03	-13	-24.03	-54.58	-47.54	1.86	12.37	V
	5233	-39.79	-13	-26.79	-61.06	-49.67	2.26	12.15	V
	6983	-38.54	-13	-25.54	-63.26	-47.04	2.41	10.92	V
	8726	-47.47	-13	-34.47	-74.93	-57.76	2.22	12.51	V
									V
									V
									V

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





**Part 27M LTE Band 7**

LTE Band 7 / 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)
Lowest	5016	-42.47	-25	-17.47	-35.32	-52.22	2.35	12.10	H
	7536	-48.28	-25	-23.28	-46.35	-56.29	2.11	10.13	H
	10044	-53.56	-25	-28.56	-55.57	-63.51	1.87	11.82	H
	12552	-56.82	-25	-31.82	-61.44	-67.51	2.55	13.24	H
	17564.5	-55.43	-25	-30.43	-63.13	-65.21	2.37	12.15	H
									H
									H
	5016	-35.93	-25	-10.93	-29.4	-45.68	2.35	12.10	V
	7536	-39.44	-25	-14.44	-37.43	-47.45	2.11	10.13	V
	10044	-48.21	-25	-23.21	-49.37	-58.16	1.87	11.82	V
	12552	-54.89	-25	-29.89	-58.4	-65.58	2.55	13.24	V
	17564.5	-51.44	-25	-26.44	-60.91	-61.22	2.37	12.15	V
									V
									V
Middle	5076	-36.73	-25	-11.73	-29.8	-46.52	2.33	12.12	H
	7608	-49.51	-25	-24.51	-47.21	-57.78	2.11	10.39	H
	10140	-54.70	-25	-29.70	-56.85	-64.53	2.02	11.86	H
	12672	-57.16	-25	-32.16	-61.85	-67.72	2.54	13.09	H
	17748.5	-56.62	-25	-31.62	-63.33	-64.68	2.51	10.57	H
									H
									H
	5076	-33.51	-25	-8.51	-27.17	-43.30	2.33	12.12	V
	7608	-41.56	-25	-16.56	-39.3	-49.83	2.11	10.39	V
	10140	-49.36	-25	-24.36	-50.85	-59.19	2.02	11.86	V
	12672	-55.32	-25	-30.32	-59.03	-65.88	2.54	13.09	V
	17748.5	-52.01	-25	-27.01	-62.33	-60.07	2.51	10.57	V
									V
									V



Highest	5124	-45.04	-25	-20.04	-38.28	-54.86	2.31	12.12	H
	7680	-53.99	-25	-28.99	-51.87	-62.52	2.11	10.65	H
	10236	-57.96	-25	-32.96	-60.26	-67.68	2.17	11.89	H
									H
									H
									H
									H
	5124	-40.60	-25	-15.60	-34.42	-50.42	2.31	12.12	V
	7680	-49.17	-25	-24.17	-47.1	-57.70	2.11	10.65	V
	10236	-54.50	-25	-29.50	-56.32	-64.22	2.17	11.89	V
									V
									V
									V
									V
								V	

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



**Part 27H LTE Band 12**

LTE Band 12 / 10MHz / QPSK									
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)
Lowest	1408	-38.61	-13	-25.61	-50.62	-43.09	1.15	7.78	H
	2112	-55.15	-13	-42.15	-69.89	-61.81	1.38	10.19	H
	2816	-60.58	-13	-47.58	-75.99	-67.73	1.45	10.75	H
	4224	-55.50	-13	-42.50	-73.52	-63.39	2.06	12.10	H
									H
									H
									H
	1408	-37.37	-13	-24.37	-48.84	-41.85	1.15	7.78	V
	2112	-55.17	-13	-42.17	-70.19	-61.83	1.38	10.19	V
	2816	-57.18	-13	-44.18	-73.01	-64.33	1.45	10.75	V
	4224	-55.26	-13	-42.26	-73.97	-63.15	2.06	12.10	V
									V
									V
									V
Middle	1416	-39.94	-13	-26.94	-51.93	-44.45	1.15	7.81	H
	2120	-52.33	-13	-39.33	-67.20	-59.00	1.38	10.20	H
	2832	-60.65	-13	-47.65	-76.10	-67.81	1.45	10.77	H
	4248	-55.62	-13	-42.62	-73.79	-63.52	2.05	12.10	H
									H
									H
									H
	1416	-49.31	-13	-36.31	-50.77	-53.82	1.15	7.81	V
	2120	-50.74	-13	-37.74	-65.92	-57.41	1.38	10.20	V
	2832	-57.10	-13	-44.10	-72.97	-64.26	1.45	10.77	V
	4248	-56.79	-13	-43.79	-75.66	-64.69	2.05	12.10	V
									V
									V
									V



Highest	1424	-39.78	-13	-26.78	-51.73	-44.33	1.15	7.85	H
	2136	-48.40	-13	-35.40	-63.55	-55.08	1.38	10.21	H
	2848	-60.23	-13	-47.23	-75.71	-67.40	1.45	10.78	H
	3552	-56.92	-13	-43.92	-73.76	-65.24	1.90	12.37	H
	4264	-56.08	-13	-43.08	-74.35	-63.98	2.05	12.10	H
									H
									H
	1424	-39.76	-13	-26.76	-51.21	-44.31	1.15	7.85	V
	2136	-50.38	-13	-37.38	-65.87	-57.06	1.38	10.21	V
	2848	-56.22	-13	-43.22	-72.13	-63.39	1.45	10.78	V
	3552	-57.77	-13	-44.77	-75.12	-66.09	1.90	12.37	V
	4264	-56.40	-13	-43.40	-75.37	-64.30	2.05	12.10	V
									V
									V

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



Part 27F LTE Band 13

LTE Band 13 / 5MHz / QPSK									
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)
Lowest	1560	-55.54	-42.15	-13.39	-66.59	-60.63	1.19	8.43	H
	2336	-60.18	-13	-47.18	-75.36	-66.99	1.41	10.37	H
	3120	-56.72	-13	-43.72	-73.04	-64.27	1.56	11.26	H
									H
	1560	-53.46	-42.15	-11.31	-64.29	-58.55	1.19	8.43	V
	2339	-54.17	-13	-41.17	-69.89	-60.98	1.41	10.37	V
	3120	-56.70	-13	-43.70	-73.29	-64.25	1.56	11.26	V
									V
Middle	1568	-59.61	-42.15	-17.46	-70.57	-64.72	1.20	8.46	H
	2344	-61.00	-13	-48.00	-76.13	-67.81	1.42	10.38	H
	3128	-59.53	-13	-46.53	-75.89	-67.10	1.56	11.28	H
									H
	1568	-57.64	-42.15	-15.49	-68.39	-62.75	1.20	8.46	V
	2344	-51.82	-13	-38.82	-67.48	-58.63	1.42	10.38	V
	3128	-58.51	-13	-45.51	-75.12	-66.08	1.56	11.28	V
									V
Highest	1568	-60.20	-42.15	-18.05	-71.16	-65.31	1.20	8.46	H
	2352	-59.53	-13	-46.53	-74.59	-66.35	1.42	10.38	H
	3136	-58.00	-13	-45.00	-74.38	-65.59	1.57	11.31	H
									H
	1568	-57.98	-42.15	-15.83	-68.73	-63.09	1.20	8.46	V
	2352	-50.51	-13	-37.51	-66.11	-57.33	1.42	10.38	V
	3136	-56.96	-13	-43.96	-73.58	-64.55	1.57	11.31	V
									V

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



LTE Band 13 / 10MHz / QPSK									
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)
Middle	1568	-59.19	-42.15	-17.04	-70.15	-64.30	1.20	8.46	H
	2344	-60.15	-13	-47.15	-75.28	-66.96	1.42	10.38	H
	3128	-59.18	-13	-46.18	-75.54	-66.75	1.56	11.28	H
									H
									H
									H
									H
	1568	-57.38	-42.15	-15.23	-68.13	-62.49	1.20	8.46	V
	2344	-60.83	-13	-47.83	-66.49	-67.64	1.42	10.38	V
	3128	-58.02	-13	-45.02	-74.63	-65.59	1.56	11.28	V
									V
									V
									V
									V

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