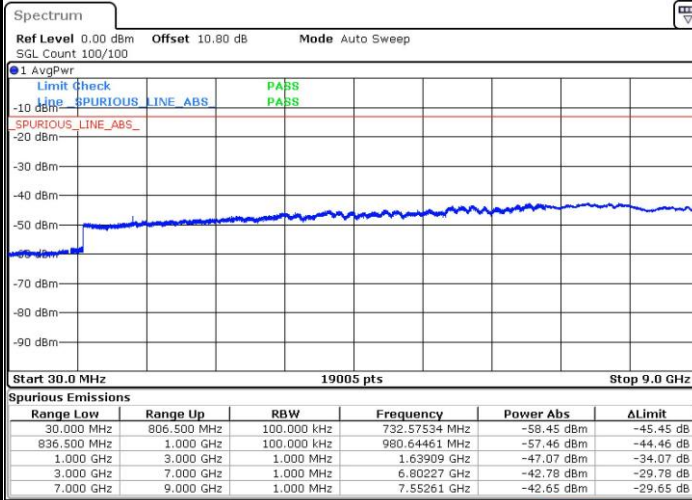




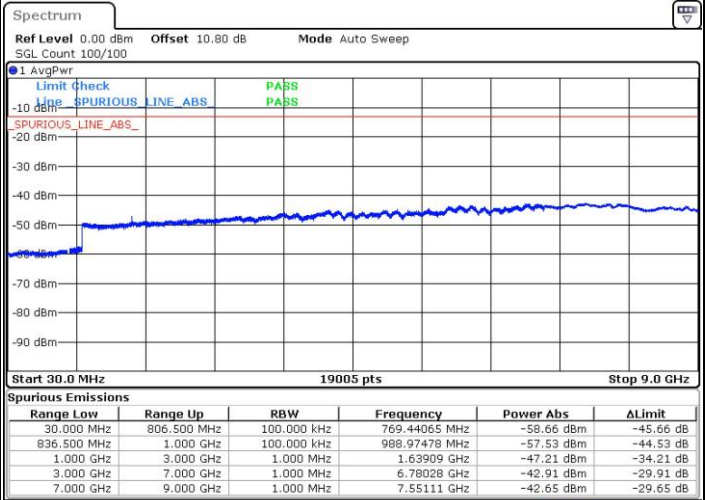
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 25 JUN 2019 21:47:52

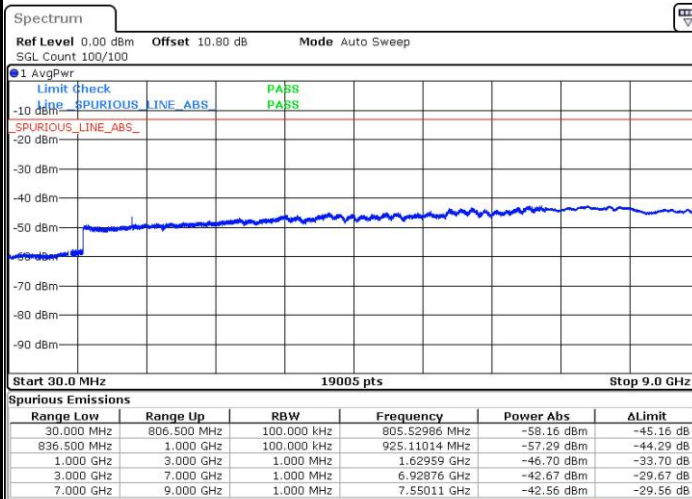
Highest Channel / 16QAM



Date: 25 JUN 2019 21:48:39

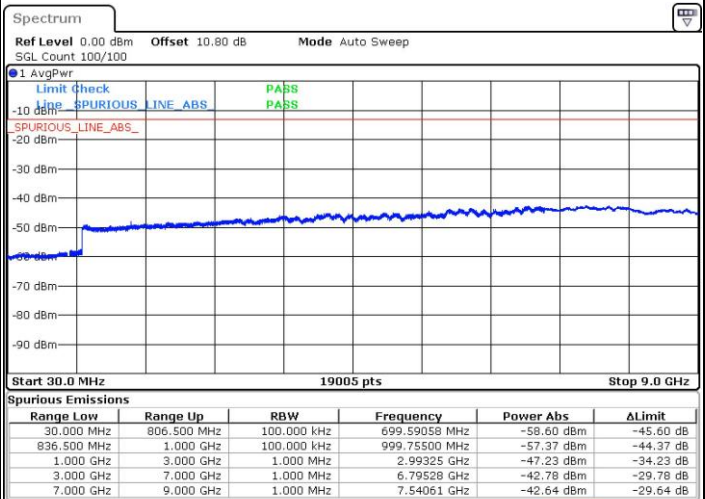
LTE Band 26 / 10MHz

Middle Channel / QPSK



Date: 25 JUN 2019 21:50:18

Middle Channel / 16QAM

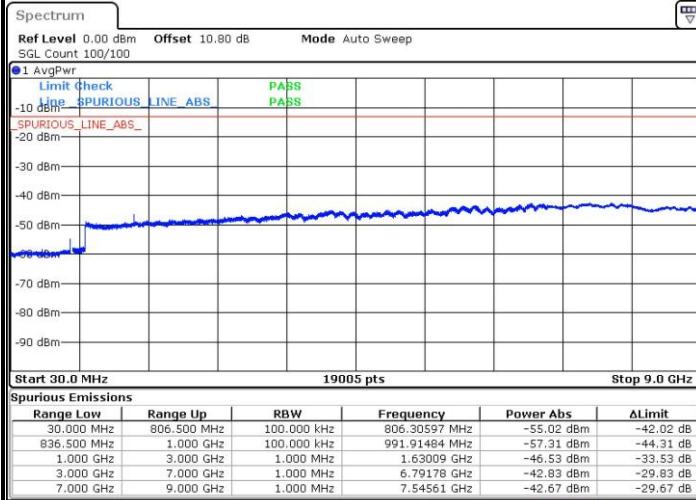


Date: 25 JUN 2019 21:51:05



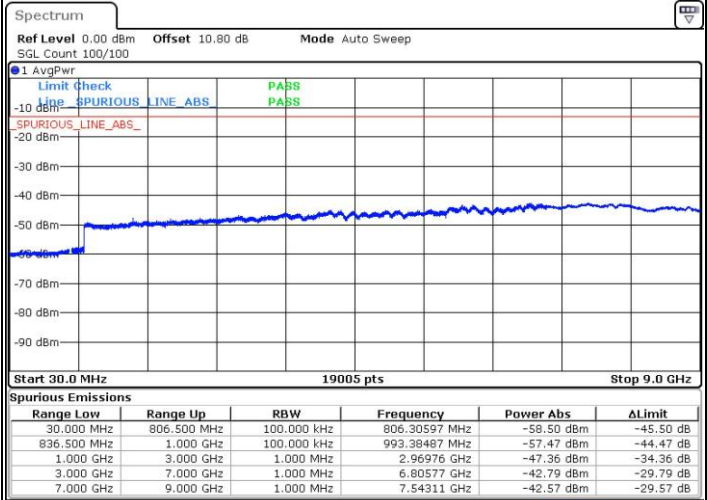
LTE Band 26 / 15MHz

Lowest Channel / QPSK



Date: 25 JUN 2019 21:52:44

Lowest Channel / 16QAM

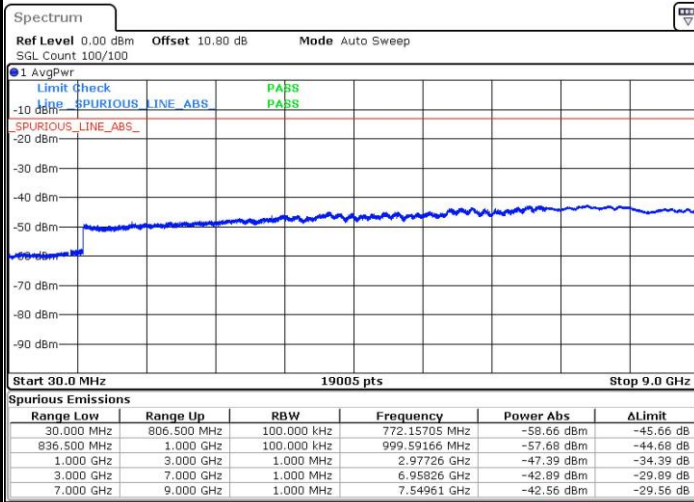


Date: 25 JUN 2019 21:53:31



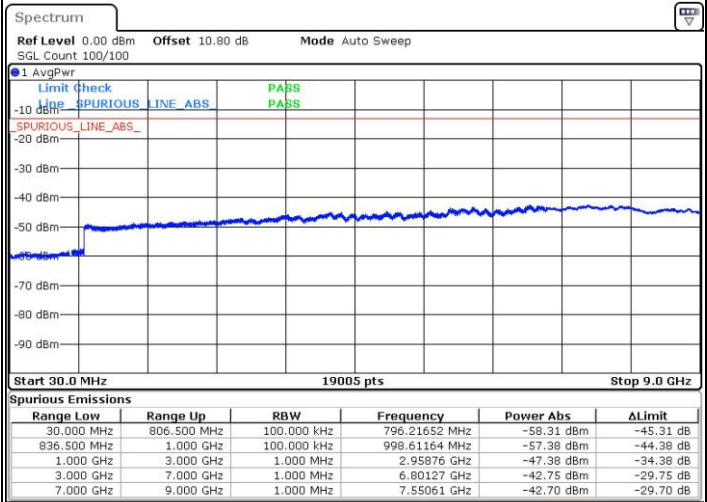
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM



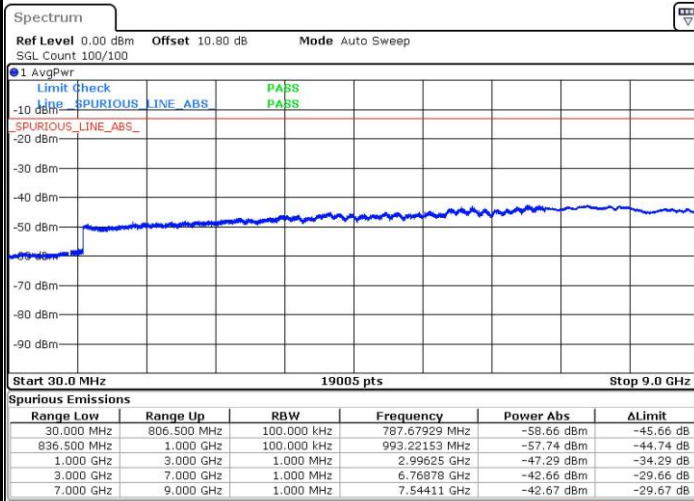
Date: 25 JUN 2019 21:31:43

Middle Channel / 64QAM



Date: 25 JUN 2019 21:32:56

Highest Channel / 64QAM

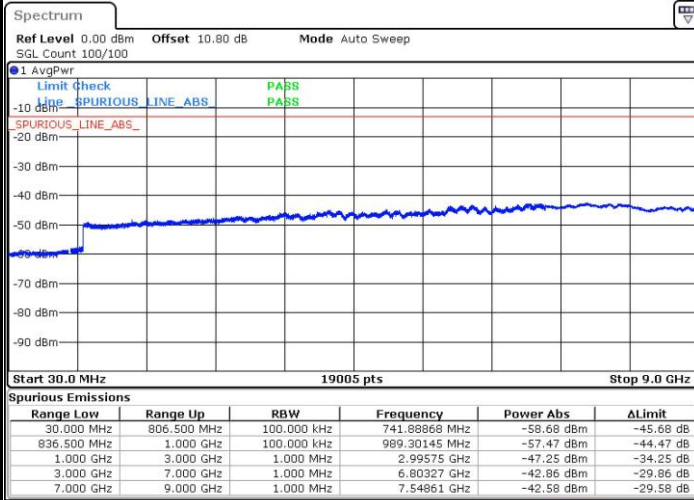


Date: 25 JUN 2019 21:34:08



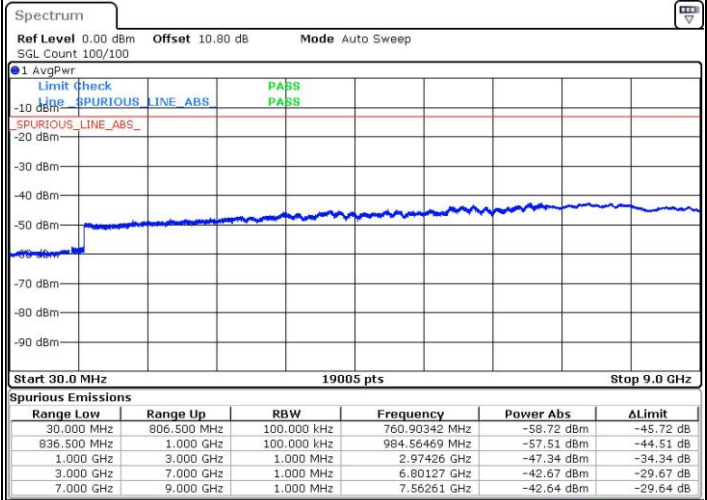
LTE Band 26 / 3MHz

Lowest Channel / 64QAM



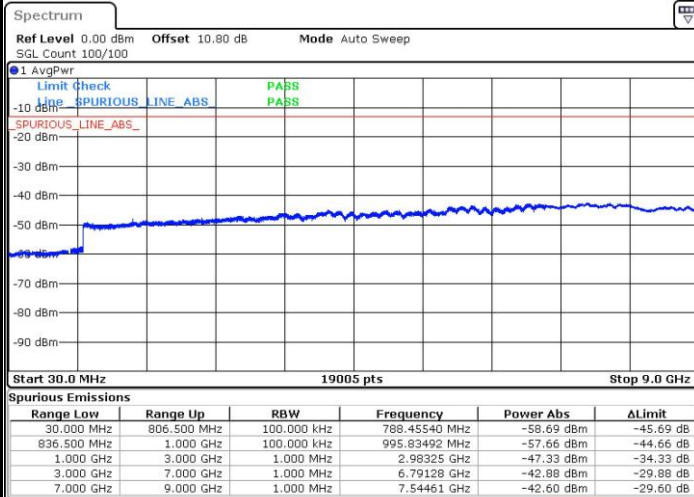
Date: 25 JUN 2019 21:20:25

Middle Channel / 64QAM



Date: 25 JUN 2019 21:21:37

Highest Channel / 64QAM

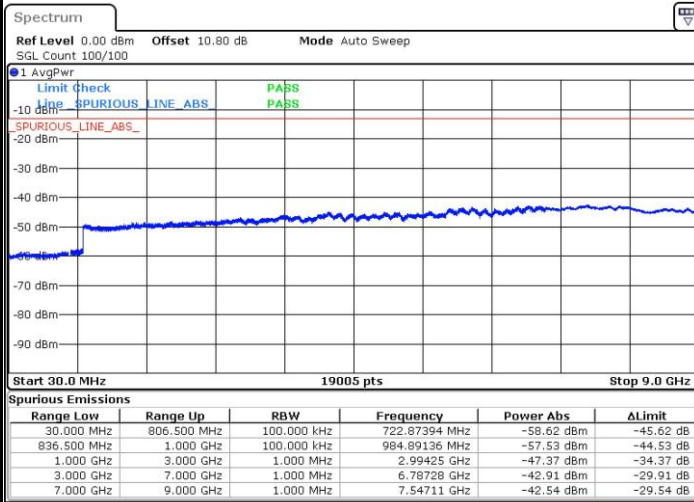


Date: 25 JUN 2019 21:22:49



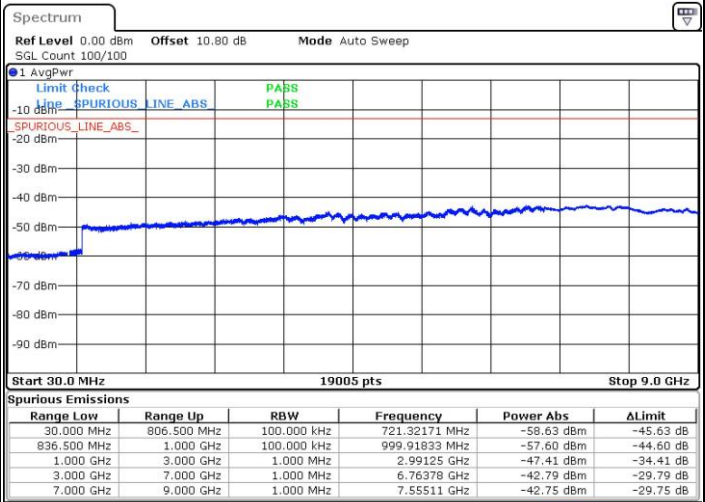
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



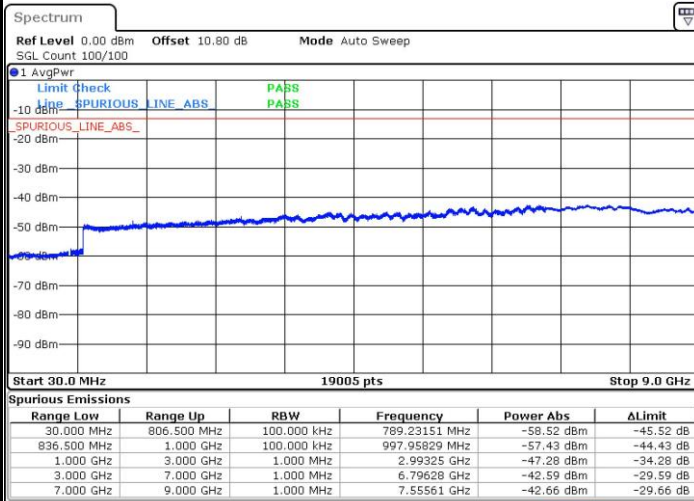
Date: 25 JUN 2019 21:24:03

Middle Channel / 64QAM

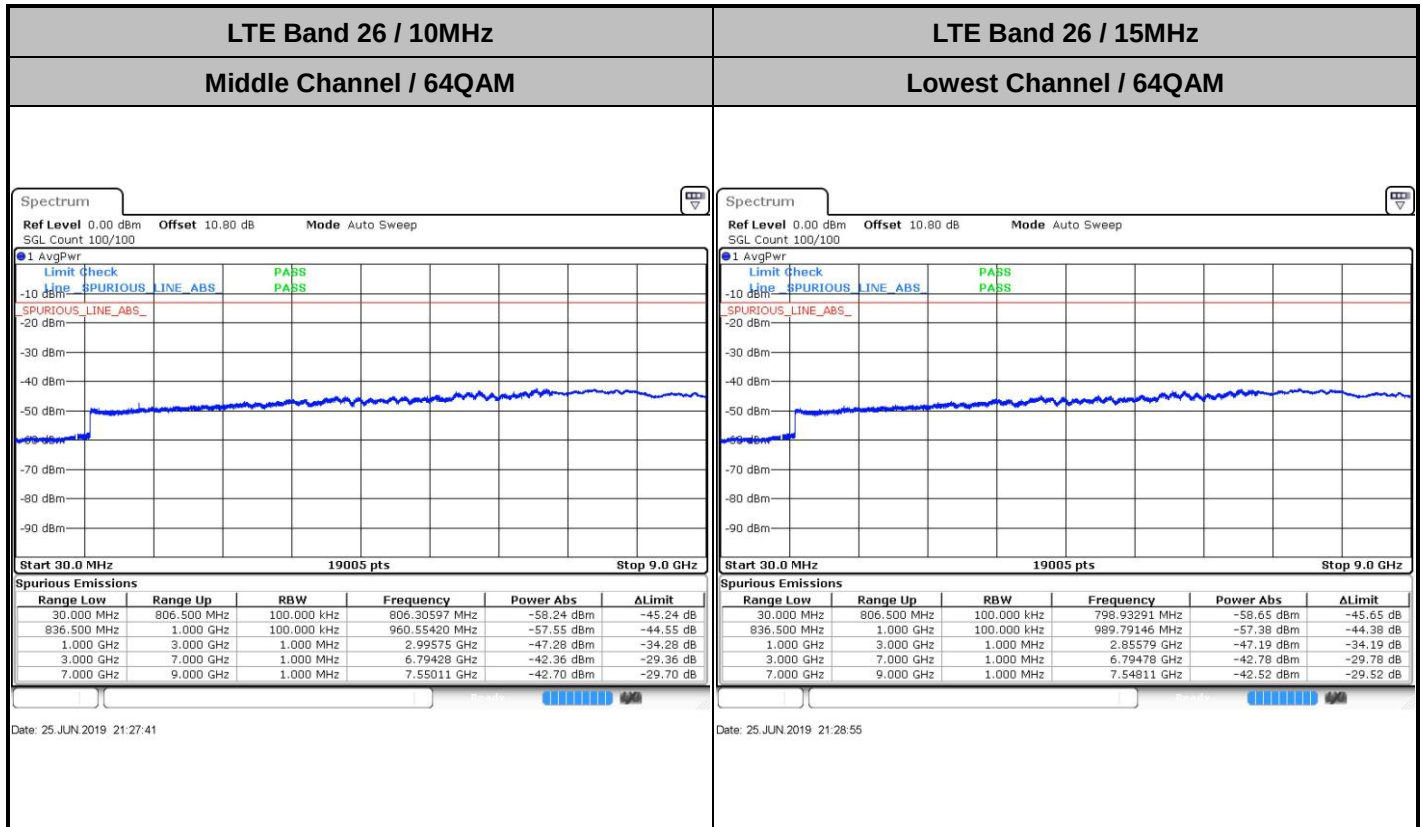


Date: 25 JUN 2019 21:25:15

Highest Channel / 64QAM



Date: 25 JUN 2019 21:26:27



Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0121	PASS
40	Normal Voltage	0.0099	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0154	
0	Normal Voltage	0.0139	
-10	Normal Voltage	0.0214	
-20	Normal Voltage	0.0212	
-30	Normal Voltage	0.0166	
20	Maximum Voltage	0.0193	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0048	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0085	PASS
40	Normal Voltage	0.0034	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0082	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0079	
20	Maximum Voltage	0.0080	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0085	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP and Radiated Test

ERP

LTE Band 26 / 1.4MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	23.20	0.2089	17.55	0.0569
Middle		1	3	23.32	0.2148	17.67	0.0585
Highest		1	3	23.07	0.2028	17.42	0.0552
Lowest	16QAM	1	3	22.22	0.1667	16.57	0.0454
Middle		1	3	21.82	0.1521	16.17	0.0414
Highest		1	3	21.93	0.1560	16.28	0.0425
Lowest	16QAM	1	3	21.05	0.1274	15.40	0.0347
Middle		1	3	21.18	0.1312	15.53	0.0357
Highest		1	3	20.76	0.1191	15.11	0.0324
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 3MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.29	0.2133	17.64	0.0581
Middle		1	8	23.33	0.2153	17.68	0.0586
Highest		1	8	23.13	0.2056	17.48	0.0560
Lowest	16QAM	1	0	21.85	0.1531	16.20	0.0417
Middle		1	0	21.93	0.1560	16.28	0.0425
Highest		1	0	22.13	0.1633	16.48	0.0445
Lowest	16QAM	1	0	20.83	0.1211	15.18	0.0330
Middle		1	0	21.21	0.1321	15.56	0.0360
Highest		1	0	20.41	0.1099	14.76	0.0299
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 5MHz (Average) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	23.21	0.2094	17.56	0.0570
Middle		1	24	23.29	0.2133	17.64	0.0581
Highest		1	24	23.10	0.2042	17.45	0.0556
Lowest	16QAM	1	24	21.63	0.1455	15.98	0.0396
Middle		1	24	21.85	0.1531	16.20	0.0417
Highest		1	24	22.09	0.1618	16.44	0.0441
Lowest	16QAM	1	12	21.01	0.1262	15.36	0.0344
Middle		1	12	21.30	0.1349	15.65	0.0367
Highest		1	12	20.96	0.1247	15.31	0.0340
Limit	ERP < 100W			Result		PASS	



LTE Band 26 / 10MHz (Channel 26740) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	25	23.30	0.2138	17.65	0.0582
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	22.15	0.1641	16.50	0.0447
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	21.11	0.1291	15.46	0.0352
Highest		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 15MHz (Channel 26765) (GT - LC = -3.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.50	0.2239	17.85	0.0610
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	1	37	22.55	0.1799	16.90	0.0490
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	64QAM	1	0	21.30	0.1349	15.65	0.0367
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

**Radiated Spurious Emission****LTE Band 26**

LTE Band 26 / 1.4MHz / 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	1632	-64.41	-13	-51.41	-75.09	-69.74	1.22	8.70	H
	2444	-60.87	-13	-47.87	-75.46	-67.74	1.43	10.46	H
	3259	-59.90	-13	-46.90	-76.19	-67.75	1.67	11.68	H
									H
									H
									H
	1632	-64.71	-13	-51.71	-75.25	-70.04	1632	-64.71	V
	2444	-60.68	-13	-47.68	-75.66	-67.55	2444	-60.68	V
	3259	-59.49	-13	-46.49	-76.07	-67.34	3259	-59.49	V
									V
									V
									V
Middle	1640	-64.61	-13	-51.61	-75.31	-69.97	1.22	8.73	H
	2457	-61.18	-13	-48.18	-75.73	-68.06	1.43	10.47	H
	3280	-59.90	-13	-46.90	-76.05	-67.80	1.69	11.74	H
									H
									H
									H
	1640	-64.56	-13	-51.56	-75.13	-69.92	1.22	8.73	V
	2457	-60.40	-13	-47.40	-75.3	-67.28	1.43	10.47	V
	3280	-59.47	-13	-46.47	-75.97	-67.37	1.69	11.74	V
									V
									V
									V



Highest	1648	-64.63	-13	-51.63	-75.35	-70.02	1.23	8.76	H
	2470	-61.47	-13	-48.47	-76.01	-68.36	1.44	10.48	H
	3293	-60.45	-13	-47.45	-76.52	-68.38	1.70	11.78	H
									H
									H
									H
									H
	1648	-64.58	-13	-51.58	-75.18	-69.97	1.23	8.76	V
	2470	-61.04	-13	-48.04	-75.87	-67.93	1.44	10.48	V
	3293	-59.76	-13	-46.76	-76.22	-67.69	1.70	11.78	V
									V
									V
									V
									V

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



LTE Band 26 / 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	1640	-64.81	-13	-51.81	-75.51	-70.17	1.22	8.73	H
	2457	-61.15	-13	-48.15	-75.7	-68.03	1.43	10.47	H
	3276	-60.34	-13	-47.34	-76.52	-68.23	1.69	11.73	H
									H
									H
									H
									H
	1640	-64.61	-13	-51.61	-75.18	-69.97	1.22	8.73	V
	2457	-60.92	-13	-47.92	-75.82	-67.80	1.43	10.47	V
	3276	-59.71	-13	-46.71	-76.23	-67.60	1.69	11.73	V
									V
									V
									V
									V
									V
									V

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



LTE Band 26 / 15MHz / 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	1632	-64.52	-13	-51.52	-75.2	-69.85	1.22	8.70	H
	2440	-60.74	-13	-47.74	-75.34	-67.61	1.43	10.45	H
	3256	-59.89	-13	-46.89	-76.2	-67.74	1.67	11.67	H
									H
									H
									H
									H
	1632	-63.64	-13	-50.64	-74.18	-68.97	1.22	8.70	V
	2440	-60.67	-13	-47.67	-75.68	-67.54	1.43	10.45	V
	3256	-59.69	-13	-46.69	-76.28	-67.54	1.67	11.67	V
									V
									V
									V
									V
									V
									V

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