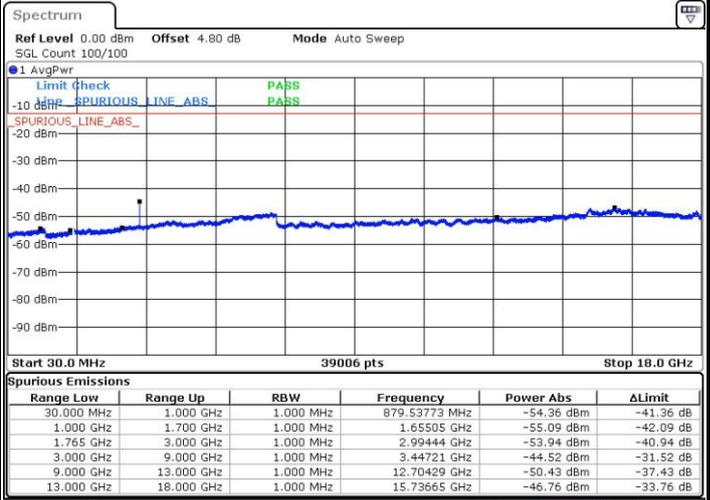
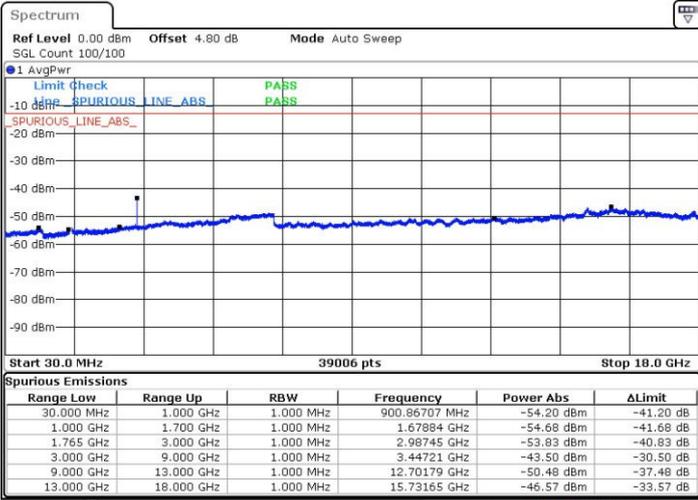




LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

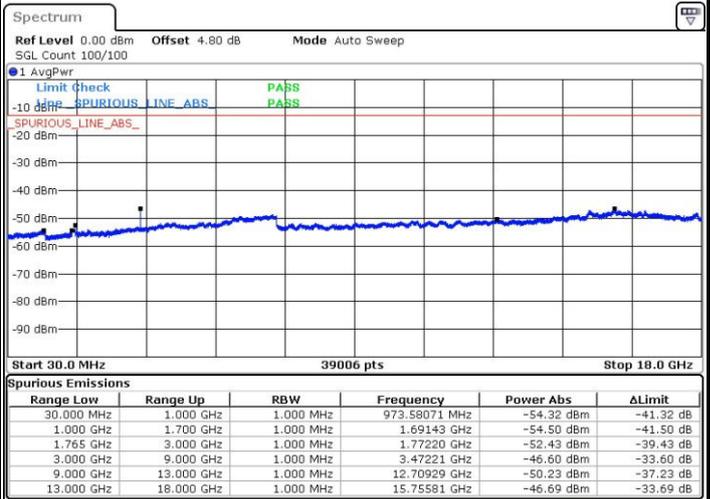
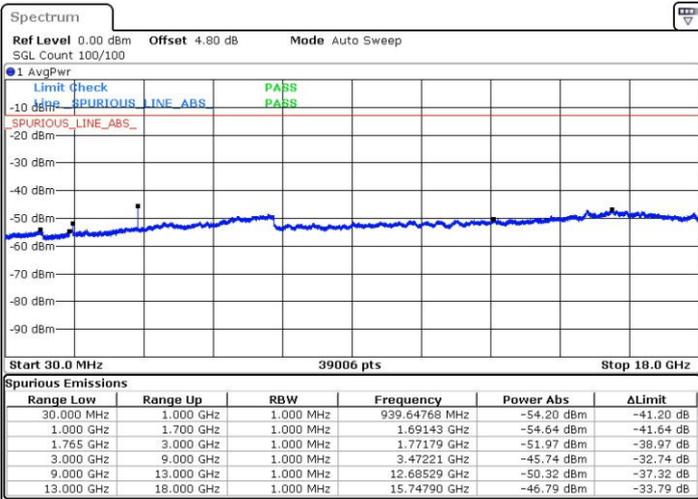


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Date: 5.NOV.2016 15:59.07

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5.NOV.2016 16:09.16

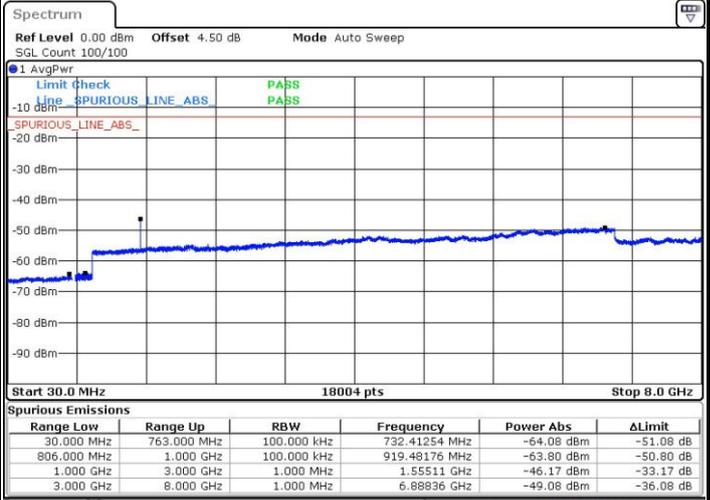
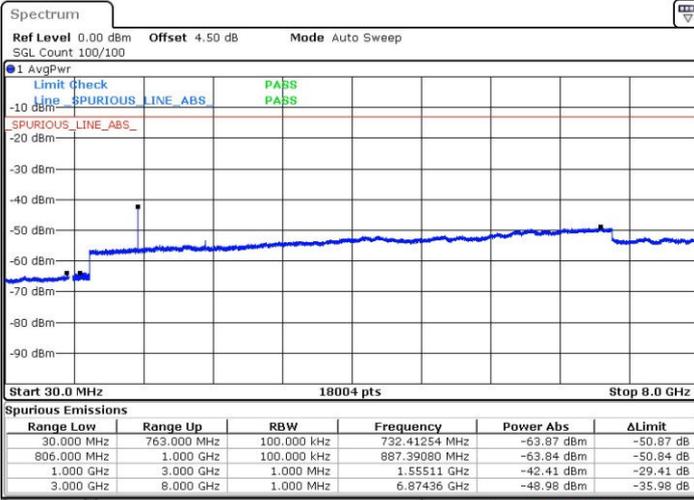
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LTE Band 13 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

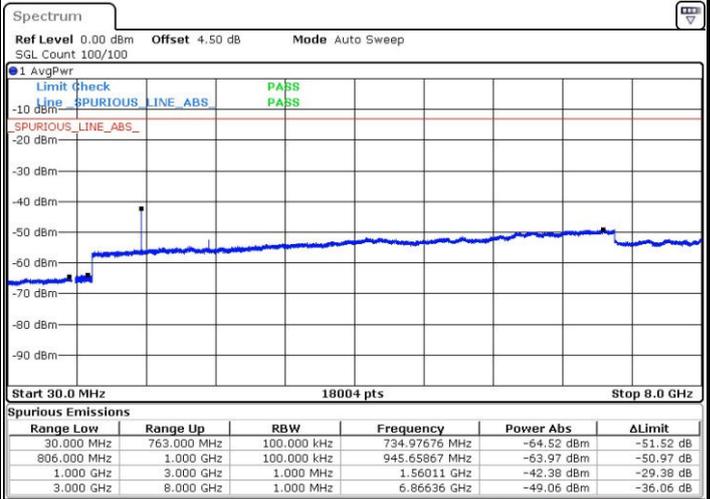
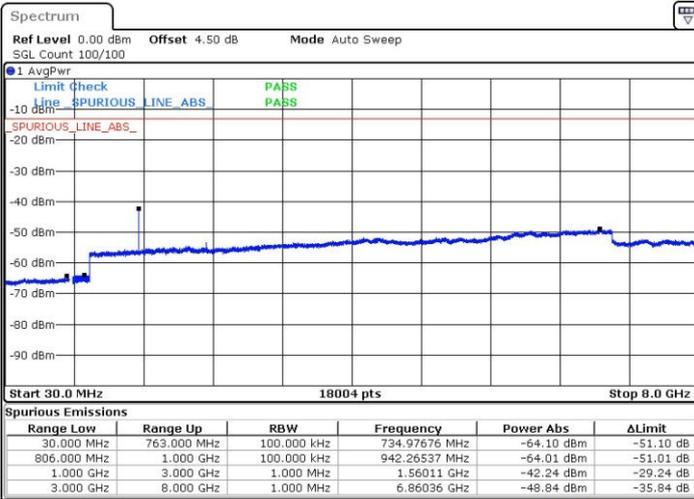


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Date: 5.NOV.2016 17:06:13

Middle Channel / QPSK

Middle Channel / 16QAM



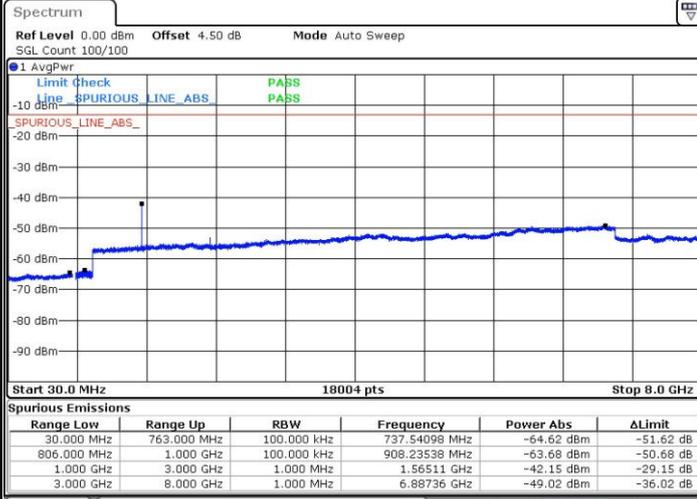
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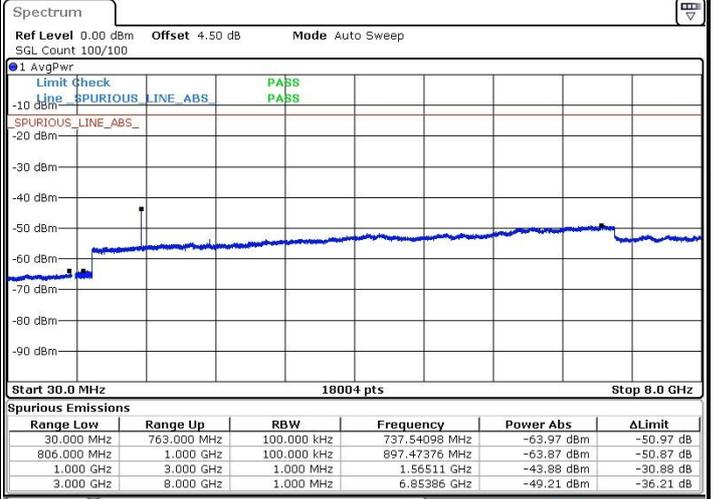
LTE Band 13 / 5MHz

Highest Channel / QPSK



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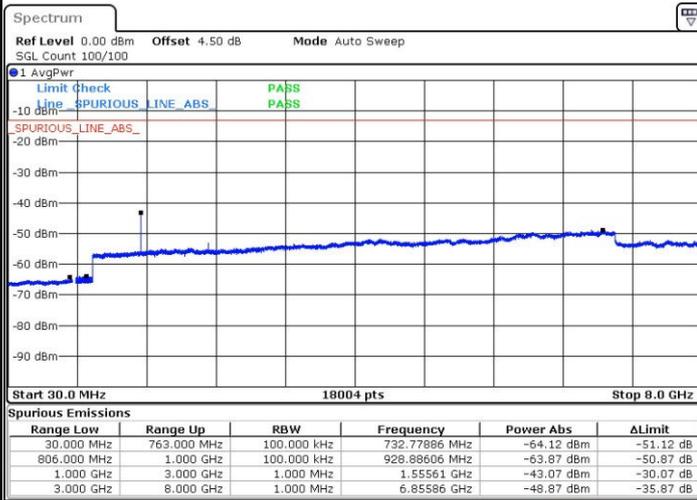
Highest Channel / 16QAM



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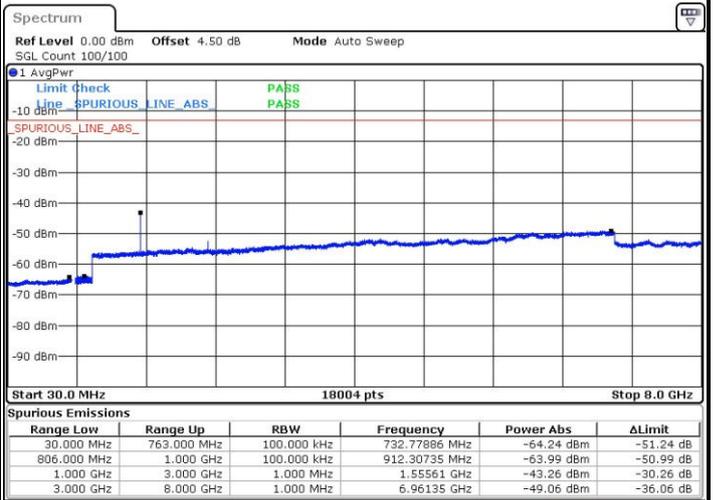
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 5.NOV.2016 17:19:41

Middle Channel / 16QAM



Date: 5.NOV.2016 17:20:36



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0050	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0043	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	3756	-57.93	-13	-44.93	-61.44	-62.92	1.88	6.87	H
	5640	-61.07	-13	-48.07	-69.26	-68.37	2.38	9.68	H
	7518	-63.50	-13	-50.50	-75.53	-72.57	2.74	11.81	H
	3756	-49.23	-13	-36.23	-56.17	-54.22	1.88	6.87	V
	5640	-61.19	-13	-48.19	-69.76	-68.49	2.38	9.68	V
	7518	-64.96	-13	-51.96	-75.67	-74.03	2.74	11.81	V

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

LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0									
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	3756	-49.06	-13	-36.06	-55.46	-54.05	1.88	6.87	H
	5634	-61.44	-13	-48.44	-69.63	-68.74	2.38	9.68	H
	7512	-63.80	-13	-50.80	-75.83	-72.87	2.74	11.81	H
	3756	-53.79	-13	-40.79	-58.49	-58.78	1.88	6.87	V
	5634	-62.12	-13	-49.12	-70.69	-69.42	2.38	9.68	V
	7512	-65.00	-13	-52.00	-75.71	-74.07	2.74	11.81	V

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

LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0									
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	3756	-49.78	-13	-36.78	-55.88	-54.77	1.88	6.87	H
	5634	-59.75	-13	-46.75	-67.94	-67.05	2.38	9.68	H
	7511.36	-64.04	-13	-51.04	-76.07	-73.11	2.74	11.81	H
	3756	-48.03	-13	-35.03	-55.55	-53.02	1.88	6.87	V
	5634	-60.34	-13	-47.34	-68.91	-67.64	2.38	9.68	V
	7512	-65.18	-13	-52.18	-75.89	-74.25	2.74	11.81	V

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



LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0									
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	3750	-54.29	-13	-41.29	-57.89	-59.28	1.88	6.87	H
	5628	-64.12	-13	-51.12	-72.31	-71.42	2.38	9.68	H
	7500	-63.41	-13	-50.41	-75.44	-72.48	2.74	11.81	H
	3750	-55.13	-13	-42.13	-58.92	-60.12	1.88	6.87	V
	5628	-63.61	-13	-50.61	-72.18	-70.91	2.38	9.68	V
	7500	-64.85	-13	-51.85	-75.56	-73.92	2.74	11.81	V

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

LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0									
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	3744	-57.79	-13	-44.79	-61.30	-62.78	1.88	6.87	H
	5622	-62.42	-13	-49.42	-70.61	-69.72	2.38	9.68	H
	7493.36	-63.65	-13	-50.65	-75.68	-72.72	2.74	11.81	H
	3744	-58.51	-13	-45.51	-62.3	-63.50	1.88	6.87	V
	5622	-61.46	-13	-48.46	-70.03	-68.76	2.38	9.68	V
	7494	-64.90	-13	-51.90	-75.61	-73.97	2.74	11.81	V

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

LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0									
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	3744	-56.90	-13	-43.90	-60.41	-61.89	1.88	6.87	H
	5610	-66.47	-13	-53.47	-74.66	-73.77	2.38	9.68	H
	7482	-63.54	-13	-50.54	-75.57	-72.61	2.74	11.81	H
	3744	-56.03	-13	-43.03	-59.82	-61.02	1.88	6.87	V
	5610	-63.35	-13	-50.35	-71.92	-70.65	2.38	9.68	V
	7482	-64.92	-13	-51.92	-75.63	-73.99	2.74	11.81	V

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



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	3462	-57.72	-13	-44.72	-69.20	-62.60	1.81	6.69	H
	5204	-60.94	-13	-47.94	-71.64	-67.89	2.19	9.14	H
	6939	-58.78	-13	-45.78	-71.12	-66.86	2.6	10.68	H
	3462	-57.20	-13	-44.20	-68.95	-62.08	1.81	6.69	V
	5204	-62.12	-13	-49.12	-71.62	-69.07	2.19	9.14	V
	6939	-58.81	-13	-45.81	-71.32	-66.89	2.6	10.68	V

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

LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
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	3462	-57.75	-13	-44.75	-69.23	-62.63	1.81	6.69	H
	5201	-60.80	-13	-47.80	-71.50	-67.75	2.19	9.14	H
	6936	-58.29	-13	-45.29	-70.63	-66.37	2.6	10.68	H
	3462	-57.37	-13	-44.37	-69.12	-62.25	1.81	6.69	V
	5261	-62.23	-13	-49.23	-71.73	-69.18	2.19	9.14	V
	6936	-59.08	-13	-46.08	-71.59	-67.16	2.6	10.68	V

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

LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0									
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	3462	-57.48	-13	-44.48	-68.96	-62.36	1.81	6.69	H
	5199	-60.22	-13	-47.22	-70.92	-67.17	2.19	9.14	H
	6932	-58.50	-13	-45.50	-70.84	-66.58	2.6	10.68	H
	3462	-55.60	-13	-42.60	-67.35	-60.48	1.81	6.69	V
	5199	-61.35	-13	-48.35	-70.85	-68.30	2.19	9.14	V
	6932	-57.89	-13	-44.89	-70.4	-65.97	2.6	10.68	V

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



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
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	3456	-56.42	-13	-43.42	-67.90	-61.30	1.81	6.69	H
	5184	-60.28	-13	-47.28	-70.98	-67.23	2.19	9.14	H
	6912	-57.37	-13	-44.37	-69.71	-65.45	2.6	10.68	H
	3456	-56.24	-13	-43.24	-67.99	-61.12	1.81	6.69	V
	5184	-61.76	-13	-48.76	-71.26	-68.71	2.19	9.14	V
	6912	-58.07	-13	-45.07	-70.58	-66.15	2.6	10.68	V

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

LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
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	3450	-53.74	-13	-40.74	-65.22	-58.62	1.81	6.69	H
	5185	-59.25	-13	-46.25	-69.95	-66.20	2.19	9.14	H
	6914	-57.32	-13	-44.32	-69.66	-65.40	2.6	10.68	H
	3450	-54.57	-13	-41.57	-66.32	-59.45	1.81	6.69	V
	5185	-61.09	-13	-48.09	-70.59	-68.04	2.19	9.14	V
	6914	-57.97	-13	-44.97	-70.48	-66.05	2.6	10.68	V

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

LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
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	3444	-55.30	-13	-42.30	-66.78	-60.18	1.81	6.69	H
	5178	-59.67	-13	-46.67	-70.37	-66.62	2.19	9.14	H
	6905	-57.99	-13	-44.99	-70.33	-66.07	2.6	10.68	H
	3444	-56.56	-13	-43.56	-68.31	-61.44	1.81	6.69	V
	5178	-60.59	-13	-47.59	-70.09	-67.54	2.19	9.14	V
	6905	-57.92	-13	-44.92	-70.43	-66.00	2.6	10.68	V

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



LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0									
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	1560	-68.88	-40	-28.88	-66.98	-71.93	1.14	4.19	H
	2339.52	-63.28	-13	-50.28	-71.19	-64.74	1.4	5.01	H
	3119.36	-65.54	-13	-52.54	-74.25	-68.07	1.63	6.31	H
	1560	-70.35	-40	-30.35	-67.12	-73.40	1.14	4.19	V
	2339.52	-66.25	-13	-53.25	-70.83	-67.71	1.40	5.01	V
	3119.36	-65.49	-13	-52.49	-74.04	-68.02	1.63	6.31	V

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

LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0									
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	1552	-68.86	-13	-55.86	-66.96	-69.76	1.14	4.19	H
	2332.77	-63.33	-13	-50.33	-71.24	-64.79	1.4	5.01	H
	3110.36	-64.97	-13	-51.97	-73.68	-67.50	1.63	6.31	H
	1552	-70.19	-13	-57.19	-66.96	-71.09	1.14	4.19	V
	2336	-64.75	-13	-51.75	-69.33	-66.21	1.40	5.01	V
	3112	-65.95	-13	-52.95	-74.50	-68.48	1.63	6.31	V

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