

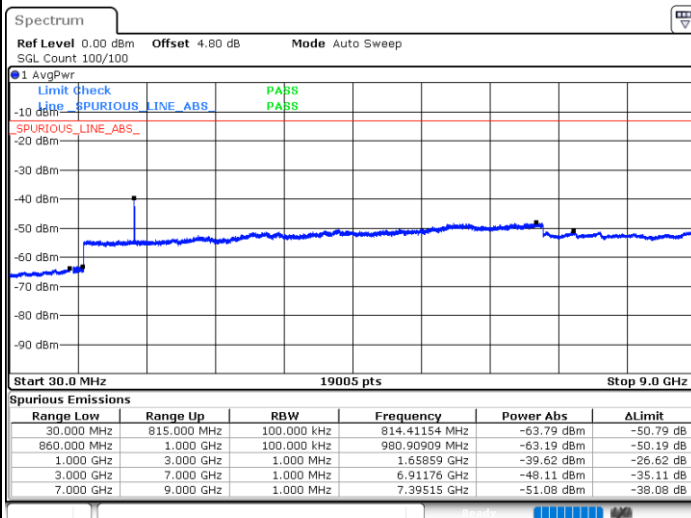


LTE Band 5B / 5MHz+10MHz

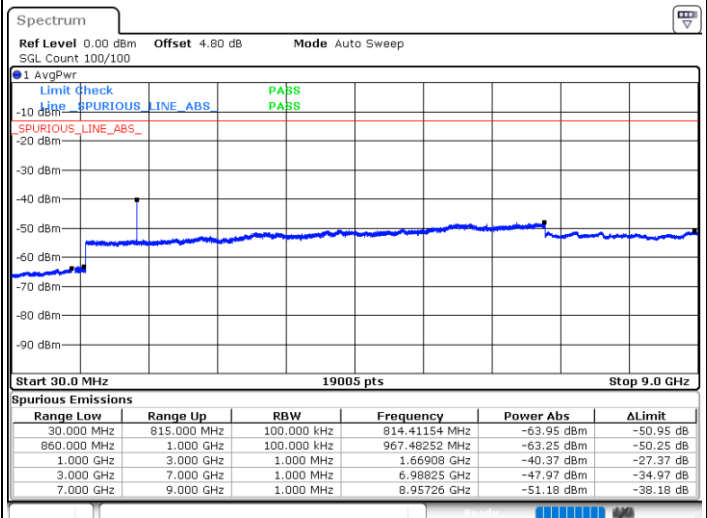
QPSK

Lowest Channel / 1RB24 and 1RB0

Middle Channel / 1RB24 and 1RB0

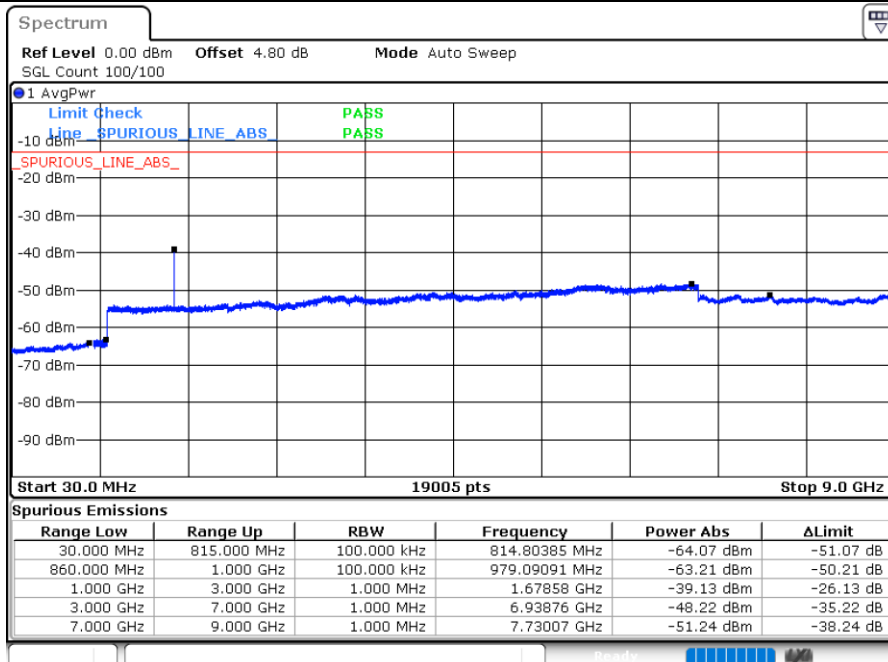


Date: 8.JUL.2024 22:14:11



Date: 8.JUL.2024 22:15:57

Highest Channel / 1RB24 and 1RB0



Date: 8.JUL.2024 22:19:38

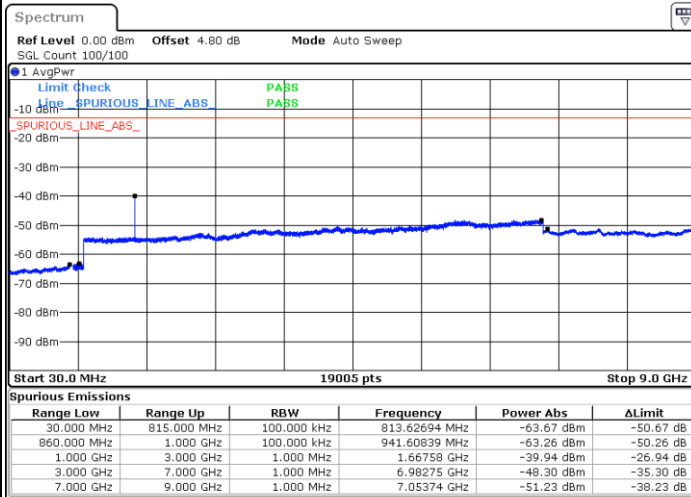


LTE Band 5B / 10MHz+5MHz

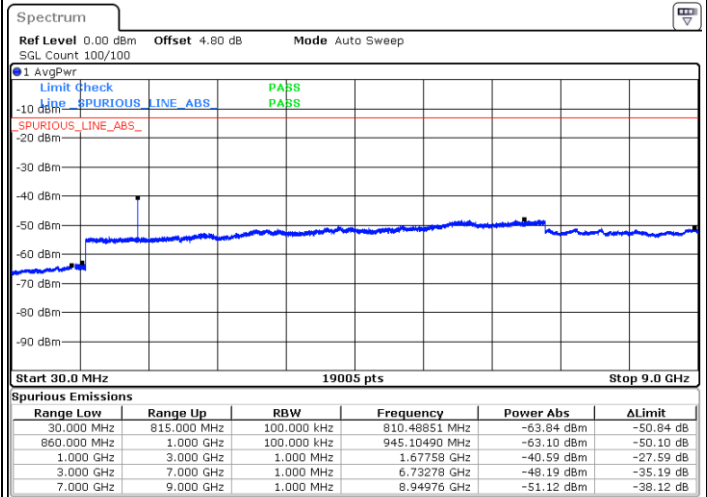
QPSK

Lowest Channel / 1RB49 and 1RB0

Middle Channel / 1RB49 and 1RB0

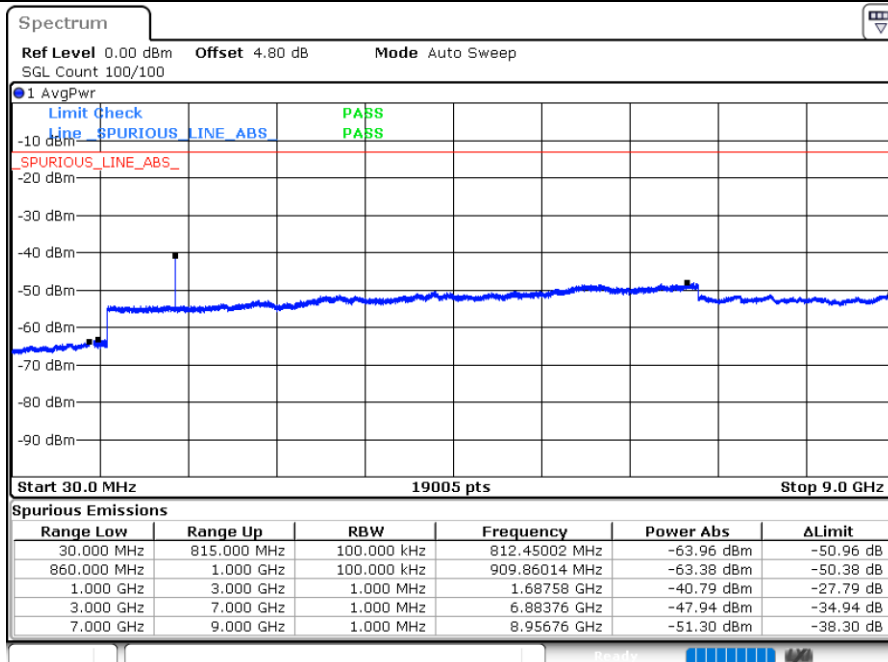


Date: 8.JUL.2024 22:21:21



Date: 8.JUL.2024 22:23:16

Highest Channel / 1RB49 and 1RB0



Date: 8.JUL.2024 22:27:17

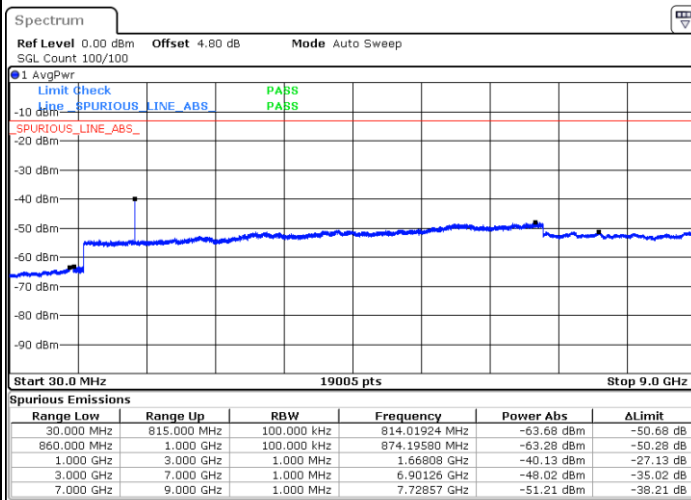


LTE Band 5B / 10MHz+10MHz

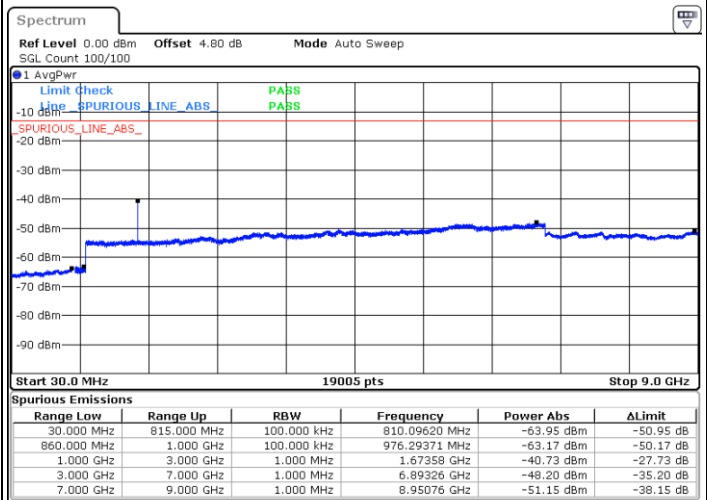
QPSK

Lowest Channel / 1RB49 and 1RB0

Middle Channel / 1RB49 and 1RB0

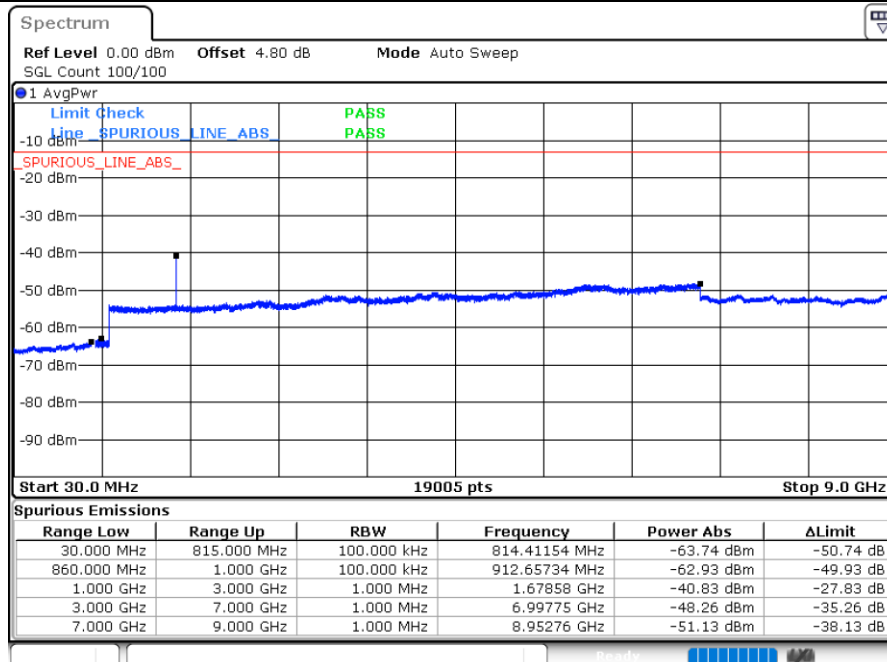


Date: 8.JUL.2024 22:28:55



Date: 8.JUL.2024 22:30:40

Highest Channel / 1RB49 and 1RB0



Date: 8.JUL.2024 22:34:12

**Frequency Stability**

Test Conditions		LTE Band 5B (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz+10MHZ	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0043	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note: Normal Voltage =3.85 V. ; Minimum Voltage =3.5 V. ; Maximum Voltage =4.41 V.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Bruce	Temperature :	23~25°C
		Relative Humidity :	41~42%

LTE Band 5B / 10MHz+10MH / QPSK / ANT0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-65.57	-13	-52.57	-72.54	1.58	10.70	H
	2472	-60.92	-13	-47.92	-69.17	2.102	12.50	H
	3296	-60.46	-13	-47.46	-69.35	2.856	13.90	H
	1672	-64.00	-13	-51.00	-70.97	1.58	10.70	H
	2504	-60.70	-13	-47.70	-68.95	2.102	12.50	H
	3336	-60.32	-13	-47.32	-69.21	2.856	13.90	H
	1648	-64.35	-13	-51.35	-71.32	1.58	10.70	V
	2472	-59.16	-13	-46.16	-67.41	2.10	12.50	V
	3296	-60.60	-13	-47.60	-69.49	2.86	13.90	V
	1672	-62.69	-13	-49.69	-69.66	1.58	10.70	V
	2504	-59.62	-13	-46.62	-67.87	2.10	12.50	V
	3336	-59.85	-13	-46.85	-68.74	2.86	13.90	V
Middle	1656	-65.15	-13	-52.15	-72.12	1.58	10.70	H
	2480	-60.56	-13	-47.56	-68.81	2.102	12.50	H
	3312	-60.37	-13	-47.37	-69.26	2.856	13.90	H
	1672	-63.90	-13	-50.90	-70.87	1.58	10.70	H
	2512	-60.11	-13	-47.11	-68.36	2.102	12.50	H
	3352	-59.98	-13	-46.98	-68.87	2.856	13.90	H
	1656	-64.03	-13	-51.03	-71.00	1.58	10.70	V
	2480	-58.16	-13	-45.16	-66.41	2.10	12.50	V
	3312	-60.17	-13	-47.17	-69.06	2.86	13.90	V
	1672	-62.71	-13	-49.71	-69.68	1.58	10.70	V
	2512	-59.48	-13	-46.48	-67.73	2.10	12.50	V
	3352	-60.23	-13	-47.23	-69.12	2.86	13.90	V
Highest	1656	-64.76	-13	-51.76	-71.73	1.58	10.70	H
	2488	-61.26	-13	-48.26	-69.51	2.102	12.50	H
	3320	-60.39	-13	-47.39	-69.28	2.856	13.90	H
	1680	-63.71	-13	-50.71	-70.68	1.58	10.70	H
	2520	-59.75	-13	-46.75	-68.00	2.102	12.50	H
	3360	-60.60	-13	-47.60	-69.49	2.856	13.90	H
	1656	-63.85	-13	-50.85	-70.82	1.58	10.70	V
	2488	-59.07	-13	-46.07	-67.32	2.10	12.50	V
	3320	-59.87	-13	-46.87	-68.76	2.86	13.90	V
	1680	-62.46	-13	-49.46	-69.43	1.58	10.70	V
	2520	-58.64	-13	-45.64	-66.89	2.10	12.50	V



	3360	-60.56	-13	-47.56	-69.45	2.86	13.90	V
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Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 26 / 15MHz / QPSK / ANT0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-60.02	-13	-47.02	-66.99	1.58	10.70	H
	2472	-59.15	-13	-46.15	-67.40	2.102	12.50	H
	3296	-60.70	-13	-47.70	-69.59	2.856	13.90	H
	1648	-59.34	-13	-46.34	-66.31	1.58	10.70	V
	2472	-59.19	-13	-46.19	-67.44	2.10	12.50	V
	3296	-60.94	-13	-47.94	-69.83	2.86	13.90	V
Middle	1656	-61.36	-13	-48.36	-68.33	1.58	10.70	H
	2488	-61.43	-13	-48.43	-69.68	2.102	12.50	H
	3320	-60.31	-13	-47.31	-69.20	2.856	13.90	H
	1656	-60.11	-13	-47.11	-67.08	1.58	10.70	V
	2488	-59.53	-13	-46.53	-67.78	2.10	12.50	V
	3320	-60.00	-13	-47.00	-68.89	2.86	13.90	V
Highest	1672	-61.11	-13	-48.11	-68.08	1.58	10.70	H
	2504	-60.70	-13	-47.70	-68.95	2.102	12.50	H
	3336	-60.19	-13	-47.19	-69.08	2.856	13.90	H
	1672	-61.15	-13	-48.15	-68.12	1.58	10.70	V
	2504	-59.65	-13	-46.65	-67.90	2.10	12.50	V
	3336	-60.09	-13	-47.09	-68.98	2.86	13.90	V

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

LTE Band 12 / 10MHz / QPSK / ANT0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-58.61	-13	-45.61	-65.58	1.58	10.70	H
	2096	-63.99	-13	-50.99	-72.24	2.102	12.50	H
	2800	-60.14	-13	-47.14	-69.03	2.856	13.90	H
	1400	-57.12	-13	-44.12	-64.09	1.58	10.70	V
	2096	-63.24	-13	-50.24	-71.49	2.10	12.50	V
	2800	-59.69	-13	-46.69	-68.58	2.86	13.90	V
Middle	1408	-58.50	-13	-45.50	-65.47	1.58	10.70	H
	2112	-61.55	-13	-48.55	-69.80	2.102	12.50	H
	2816	-60.28	-13	-47.28	-69.17	2.856	13.90	H
	1408	-57.30	-13	-44.30	-64.27	1.58	10.70	V
	2112	-61.56	-13	-48.56	-69.81	2.10	12.50	V
	2816	-59.62	-13	-46.62	-68.51	2.86	13.90	V
Highest	1416	-58.35	-13	-45.35	-65.32	1.58	10.70	H
	2120	-62.22	-13	-49.22	-70.47	2.102	12.50	H
	2824	-60.23	-13	-47.23	-69.12	2.856	13.90	H
	1416	-58.15	-13	-45.15	-65.12	1.58	10.70	V



	2120	-61.61	-13	-48.61	-69.86	2.10	12.50	V
	2824	-59.08	-13	-46.08	-67.97	2.86	13.90	V

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

LTE Band 13 / 5MHz / QPSK / ANT0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1552	-64.83	-13	-51.83	-67.46	1.09	5.87	H
	2336	-61.92	-13	-48.92	-64.32	1.37	5.92	H
	3112	-60.81	-13	-47.81	-64.70	1.64	7.68	H
	1552	-62.63	-13	-49.63	-65.26	1.09	5.87	V
	2336	-60.36	-13	-47.36	-62.76	1.37	5.92	V
	3112	-60.54	-13	-47.54	-64.43	1.64	7.68	V
Middle	1560	-63.90	-42.15	-21.75	-66.53	1.09	5.87	H
	2336	-61.88	-13	-48.88	-64.28	1.37	5.92	H
	3120	-60.87	-13	-47.87	-64.76	1.64	7.68	H
	1560	-62.27	-42.15	-20.12	-64.90	1.09	5.87	V
	2336	-60.35	-13	-47.35	-62.75	1.37	5.92	V
	3120	-60.48	-13	-47.48	-64.37	1.64	7.68	V
Highest	1568	-63.08	-42.15	-20.93	-65.71	1.09	5.87	H
	2344	-61.71	-13	-48.71	-64.11	1.37	5.92	H
	3128	-60.46	-13	-47.46	-64.35	1.64	7.68	H
	1568	-61.07	-42.15	-18.92	-63.70	1.09	5.87	V
	2344	-60.10	-13	-47.10	-62.50	1.37	5.92	V
	3128	-60.61	-13	-47.61	-64.50	1.64	7.68	V

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

LTE Band 13 / 10MHz / QPSK / ANT0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-57.82	-13	-44.82	-60.45	1.09	5.87	H
	2336	-47.31	-13	-34.31	-49.71	1.37	5.92	H
	3112	-60.55	-13	-47.55	-64.44	1.64	7.68	H
	1552	-60.76	-13	-47.76	-63.39	1.09	5.87	V
	2336	-52.26	-13	-39.26	-54.66	1.37	5.92	V
	3112	-60.37	-13	-47.37	-64.26	1.64	7.68	V

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



LTE Band 71 / 20MHz / QPSK / ANT0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-57.16	-13	-44.16	-58.91	1.02	4.92	H
	1992	-62.76	-13	-49.76	-64.73	1.27	5.39	H
	2656	-61.65	-13	-48.65	-64.58	1.49	6.57	H
	1328	-53.29	-13	-40.29	-55.04	1.02	4.92	V
	1992	-61.97	-13	-48.97	-63.94	1.27	5.39	V
	2656	-61.22	-13	-48.22	-64.15	1.49	6.57	V
Middle	1344	-56.80	-13	-43.80	-58.55	1.02	4.92	H
	2016	-62.81	-13	-49.81	-64.78	1.27	5.39	H
	2688	-60.60	-13	-47.60	-63.53	1.49	6.57	H
	1344	-53.51	-13	-40.51	-55.26	1.02	4.92	V
	2016	-61.97	-13	-48.97	-63.94	1.27	5.39	V
	2688	-60.05	-13	-47.05	-62.98	1.49	6.57	V
Highest	1360	-53.32	-13	-40.32	-55.07	1.02	4.92	H
	2040	-63.42	-13	-50.42	-65.39	1.27	5.39	H
	2720	-60.26	-13	-47.26	-63.19	1.49	6.57	H
	1360	-48.86	-13	-35.86	-50.61	1.02	4.92	V
	2040	-62.50	-13	-49.50	-64.47	1.27	5.39	V
	2720	-59.69	-13	-46.69	-62.62	1.49	6.57	V

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

LTE Band 5B / 10MHz+10MH / QPSK / ANT1								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-67.01	-13	-54.01	-73.98	1.58	10.70	H
	2472	-55.82	-13	-42.82	-64.07	2.102	12.50	H
	3296	-61.50	-13	-48.50	-70.39	2.856	13.90	H
	1672	-65.26	-13	-52.26	-72.23	1.58	10.70	H
	2504	-61.31	-13	-48.31	-69.56	2.102	12.50	H
	3336	-60.60	-13	-47.60	-69.49	2.856	13.90	H
	1648	-65.69	-13	-52.69	-72.66	1.58	10.70	V
	2472	-54.80	-13	-41.80	-63.05	2.10	12.50	V
	3296	-61.67	-13	-48.67	-70.56	2.86	13.90	V
	1672	-64.10	-13	-51.10	-71.07	1.58	10.70	V
	2504	-60.51	-13	-47.51	-68.76	2.10	12.50	V
	3336	-60.67	-13	-47.67	-69.56	2.86	13.90	V
Middle	1656	-66.25	-13	-53.25	-73.22	1.58	10.70	H
	2480	-60.85	-13	-47.85	-69.10	2.102	12.50	H
	3312	-60.85	-13	-47.85	-69.74	2.856	13.90	H
	1672	-64.48	-13	-51.48	-71.45	1.58	10.70	H
	2512	-60.53	-13	-47.53	-68.78	2.102	12.50	H
	3352	-60.35	-13	-47.35	-69.24	2.856	13.90	H
	1656	-65.09	-13	-52.09	-72.06	1.58	10.70	V



	2480	-58.89	-13	-45.89	-67.14	2.10	12.50	V
	3312	-60.77	-13	-47.77	-69.66	2.86	13.90	V
	1672	-63.62	-13	-50.62	-70.59	1.58	10.70	V
	2512	-59.99	-13	-46.99	-68.24	2.10	12.50	V
	3352	-60.02	-13	-47.02	-68.91	2.86	13.90	V
Highest	1656	-66.51	-13	-53.51	-73.48	1.58	10.70	H
	2488	-61.88	-13	-48.88	-70.13	2.102	12.50	H
	3320	-60.60	-13	-47.60	-69.49	2.856	13.90	H
	1680	-64.36	-13	-51.36	-71.33	1.58	10.70	H
	2520	-60.83	-13	-47.83	-69.08	2.102	12.50	H
	3360	-60.80	-13	-47.80	-69.69	2.856	13.90	H
	1656	-65.55	-13	-52.55	-72.52	1.58	10.70	V
	2488	-59.76	-13	-46.76	-68.01	2.10	12.50	V
	3320	-60.89	-13	-47.89	-69.78	2.86	13.90	V
	1680	-63.81	-13	-50.81	-70.78	1.58	10.70	V
	2520	-60.38	-13	-47.38	-68.63	2.10	12.50	V
	3360	-60.94	-13	-47.94	-69.83	2.86	13.90	V

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

LTE Band 26 / 15MHz / QPSK / ANT1								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-66.97	-13	-53.97	-73.94	1.58	10.70	H
	2472	-61.60	-13	-48.60	-69.85	2.102	12.50	H
	3296	-61.54	-13	-48.54	-70.43	2.856	13.90	H
	1648	-65.86	-13	-52.86	-72.83	1.58	10.70	V
	2472	-59.47	-13	-46.47	-67.72	2.10	12.50	V
	3296	-61.30	-13	-48.30	-70.19	2.86	13.90	V
Middle	1656	-66.38	-13	-53.38	-73.35	1.58	10.70	H
	2488	-60.98	-13	-47.98	-69.23	2.102	12.50	H
	3320	-60.55	-13	-47.55	-69.44	2.856	13.90	H
	1656	-65.32	-13	-52.32	-72.29	1.58	10.70	V
	2488	-58.74	-13	-45.74	-66.99	2.10	12.50	V
	3320	-60.45	-13	-47.45	-69.34	2.86	13.90	V
Highest	1672	-64.10	-13	-51.10	-71.07	1.58	10.70	H
	2504	-60.55	-13	-47.55	-68.80	2.102	12.50	H
	3336	-59.97	-13	-46.97	-68.86	2.856	13.90	H
	1672	-62.87	-13	-49.87	-69.84	1.58	10.70	V
	2504	-59.70	-13	-46.70	-67.95	2.10	12.50	V
	3336	-60.09	-13	-47.09	-68.98	2.86	13.90	V

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



LTE Band 12 / 10MHz / QPSK / ANT1								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-67.94	-13	-54.94	-74.91	1.58	10.70	H
	2096	-64.49	-13	-51.49	-72.74	2.102	12.50	H
	2800	-60.42	-13	-47.42	-69.31	2.856	13.90	H
	1400	-67.28	-13	-54.28	-74.25	1.58	10.70	V
	2096	-63.63	-13	-50.63	-71.88	2.10	12.50	V
	2800	-59.69	-13	-46.69	-68.58	2.86	13.90	V
Middle	1408	-68.29	-13	-55.29	-75.26	1.58	10.70	H
	2112	-63.35	-13	-50.35	-71.60	2.102	12.50	H
	2816	-60.61	-13	-47.61	-69.50	2.856	13.90	H
	1408	-67.81	-13	-54.81	-74.78	1.58	10.70	V
	2112	-62.30	-13	-49.30	-70.55	2.10	12.50	V
	2816	-60.15	-13	-47.15	-69.04	2.86	13.90	V
Highest	1416	-67.51	-13	-54.51	-74.48	1.58	10.70	H
	2120	-62.55	-13	-49.55	-70.80	2.102	12.50	H
	2824	-60.24	-13	-47.24	-69.13	2.856	13.90	H
	1416	-66.52	-13	-53.52	-73.49	1.58	10.70	V
	2120	-61.58	-13	-48.58	-69.83	2.10	12.50	V
	2824	-59.92	-13	-46.92	-68.81	2.86	13.90	V

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

LTE Band 13 / 5MHz / QPSK / ANT1								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1552	-67.26	-13	-54.26	-69.89	1.09	5.87	H
	2336	-62.06	-13	-49.06	-64.46	1.37	5.92	H
	3112	-60.94	-13	-47.94	-64.83	1.64	7.68	H
	1552	-66.26	-13	-53.26	-68.89	1.09	5.87	V
	2336	-60.46	-13	-47.46	-62.86	1.37	5.92	V
	3112	-60.55	-13	-47.55	-64.44	1.64	7.68	V
Middle	1560	-66.81	-42.15	-24.66	-69.44	1.09	5.87	H
	2336	-62.30	-13	-49.30	-64.70	1.37	5.92	H
	3120	-61.02	-13	-48.02	-64.91	1.64	7.68	H
	1560	-65.05	-42.15	-22.90	-67.68	1.09	5.87	V
	2336	-60.85	-13	-47.85	-63.25	1.37	5.92	V
	3120	-60.86	-13	-47.86	-64.75	1.64	7.68	V
Highest	1568	-66.62	-42.15	-24.47	-69.25	1.09	5.87	H
	2344	-62.08	-13	-49.08	-64.48	1.37	5.92	H
	3128	-61.26	-13	-48.26	-65.15	1.64	7.68	H
	1568	-65.92	-42.15	-23.77	-68.55	1.09	5.87	V
	2344	-60.58	-13	-47.58	-62.98	1.37	5.92	V
	3128	-61.02	-13	-48.02	-64.91	1.64	7.68	V

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



LTE Band 13 / 10MHz / QPSK / ANT1								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1552	-67.32	-13	-54.32	-69.95	1.09	5.87	H
	2336	-62.42	-13	-49.42	-64.82	1.37	5.92	H
	3112	-60.77	-13	-47.77	-64.66	1.64	7.68	H
	1552	-66.44	-13	-53.44	-69.07	1.09	5.87	V
	2336	-60.67	-13	-47.67	-63.07	1.37	5.92	V
	3112	-60.59	-13	-47.59	-64.48	1.64	7.68	V

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

LTE Band 71 / 20MHz / QPSK / ANT1								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1328	-68.55	-13	-55.55	-70.30	1.02	4.92	H
	1992	-62.99	-13	-49.99	-64.96	1.27	5.39	H
	2656	-61.83	-13	-48.83	-64.76	1.49	6.57	H
	1328	-68.13	-13	-55.13	-69.88	1.02	4.92	V
	1992	-62.32	-13	-49.32	-64.29	1.27	5.39	V
	2656	-61.14	-13	-48.14	-64.07	1.49	6.57	V
Middle	1344	-69.09	-13	-56.09	-70.84	1.02	4.92	H
	2016	-63.17	-13	-50.17	-65.14	1.27	5.39	H
	2688	-60.49	-13	-47.49	-63.42	1.49	6.57	H
	1344	-68.39	-13	-55.39	-70.14	1.02	4.92	V
	2016	-61.92	-13	-48.92	-63.89	1.27	5.39	V
	2688	-59.98	-13	-46.98	-62.91	1.49	6.57	V
Highest	1360	-61.06	-13	-48.06	-62.81	1.02	4.92	H
	2040	-59.07	-13	-46.07	-61.04	1.27	5.39	H
	2720	-60.50	-13	-47.50	-63.43	1.49	6.57	H
	1360	-58.05	-13	-45.05	-59.80	1.02	4.92	V
	2040	-57.22	-13	-44.22	-59.19	1.27	5.39	V
	2720	-59.61	-13	-46.61	-62.54	1.49	6.57	V

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