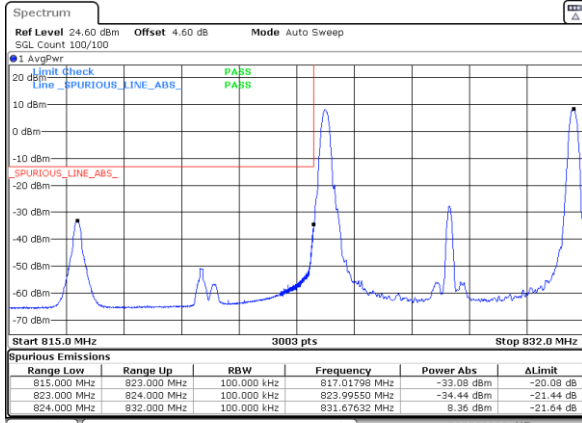




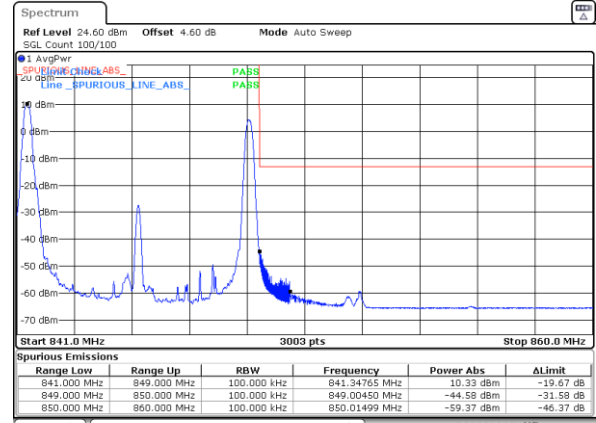
LTE Band 5B / 5MHz+3MHz

256QAM

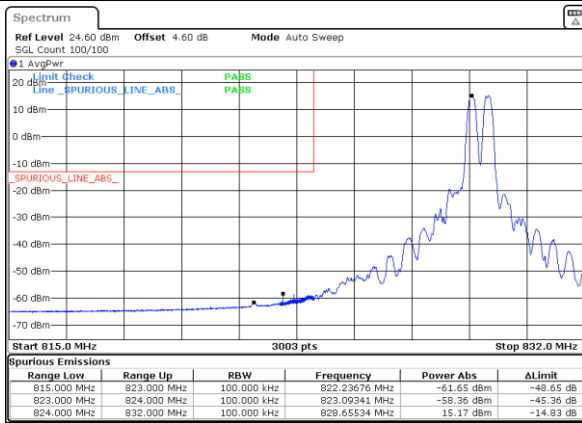
Lowest Band Edge / 1RB0 and 1RB14



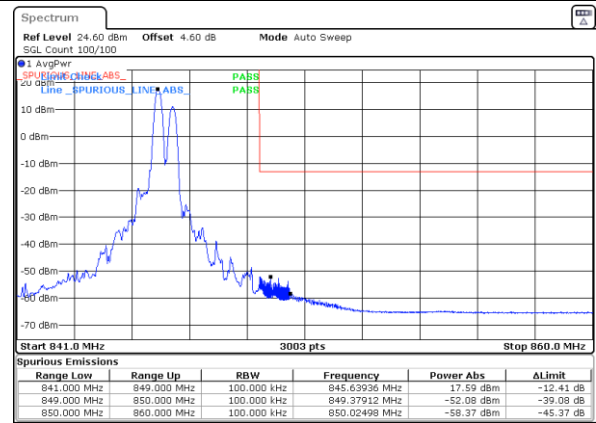
Highest Band Edge / 1RB0 and 1RB14



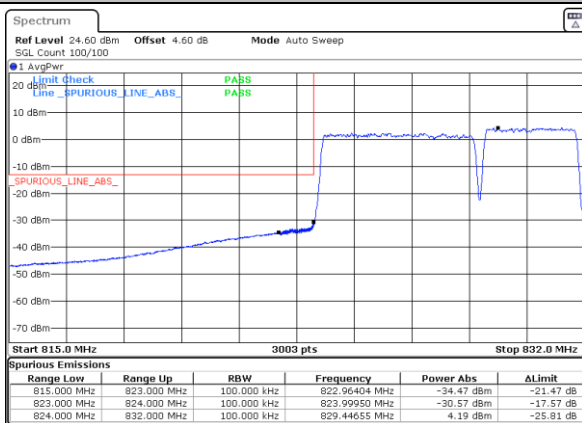
Lowest Band Edge / 1RB24 and 1RB0



Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

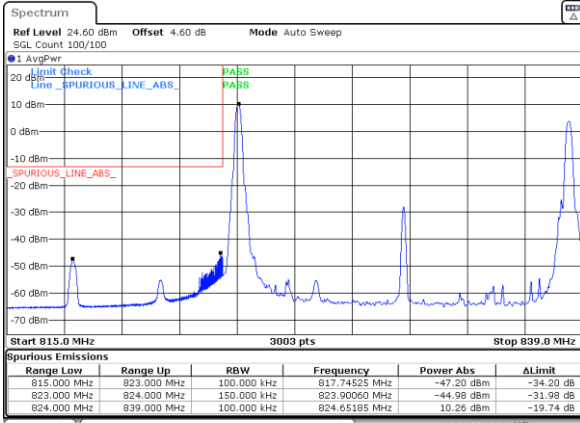




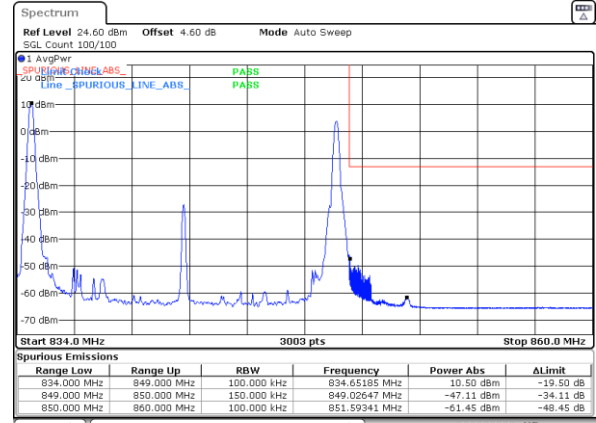
LTE Band 5B / 5MHz+10MHz

256QAM

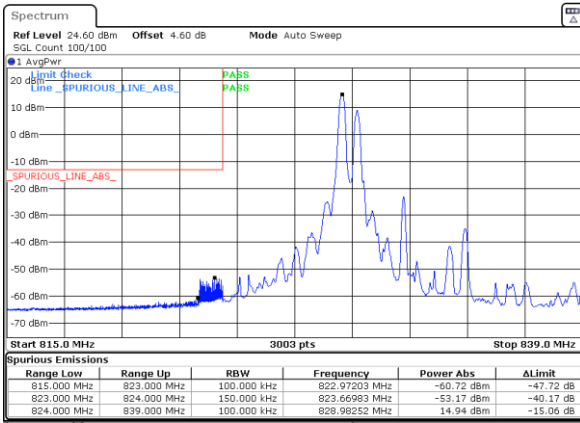
Lowest Band Edge / 1RB0 and 1RB49



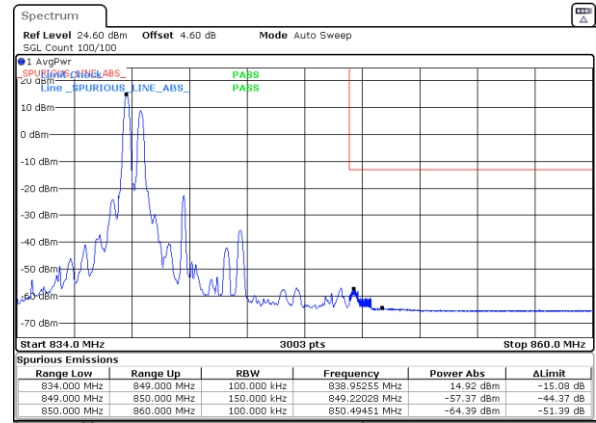
Highest Band Edge / 1RB0 and 1RB49



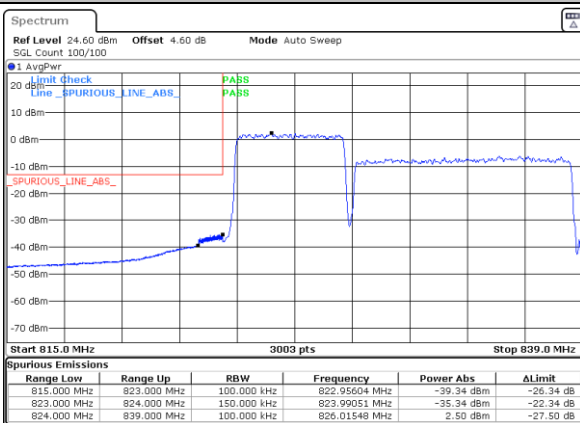
Lowest Band Edge / 1RB24 and 1RB0



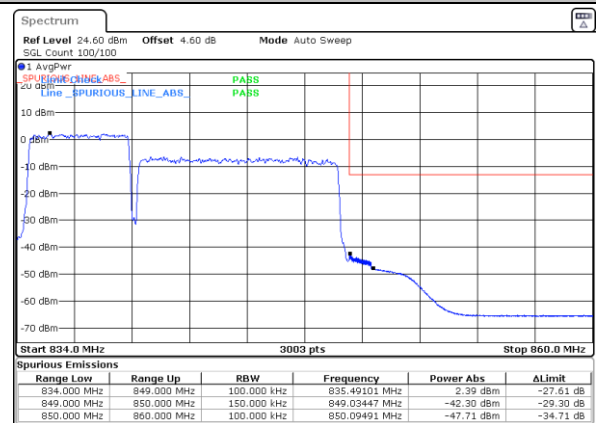
Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

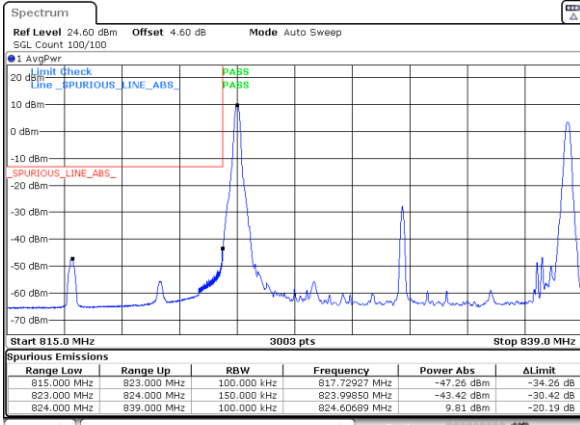




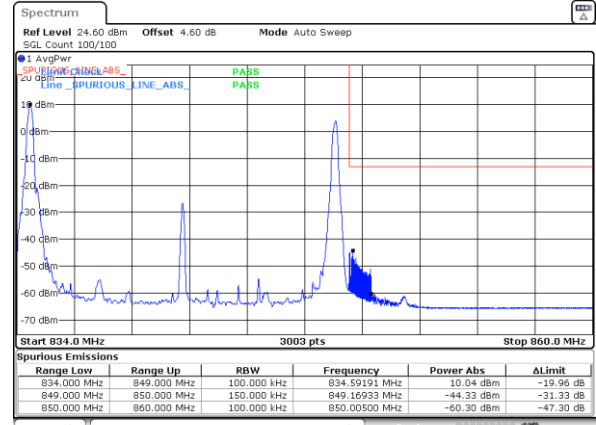
LTE Band 5B / 10MHz+5MHz

256QAM

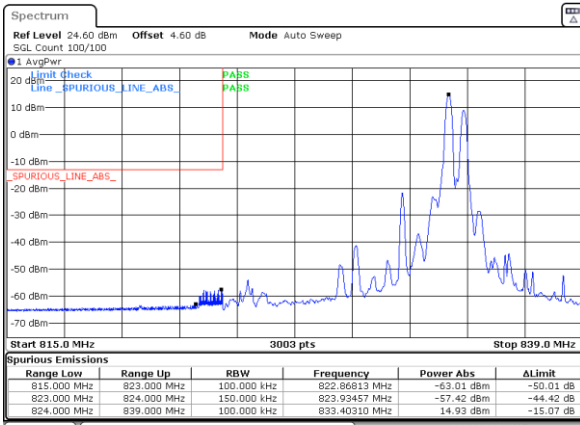
Lowest Band Edge / 1RB0 and 1RB24



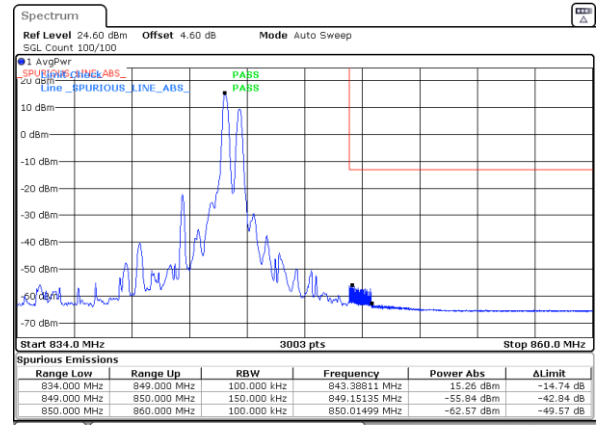
Highest Band Edge / 1RB0 and 1RB24



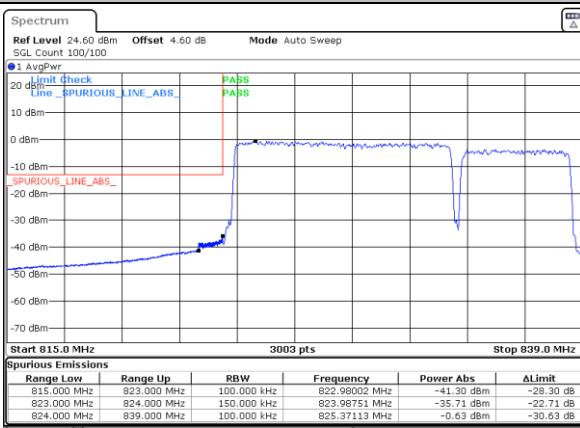
Lowest Band Edge / 1RB49 and 1RB0



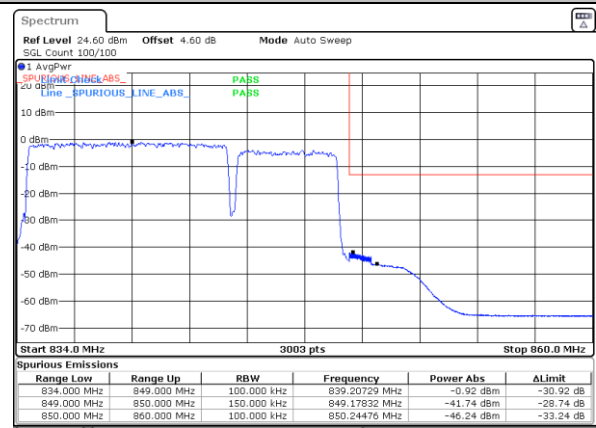
Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

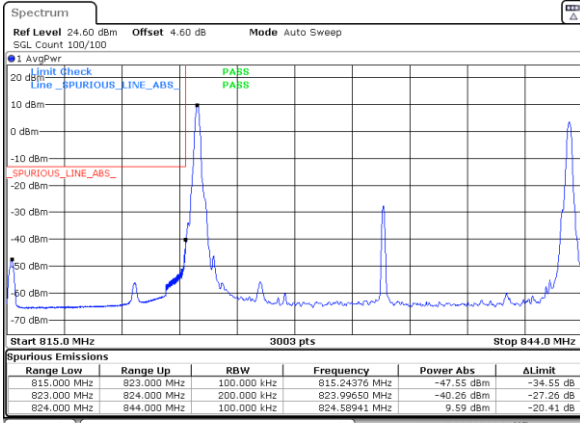




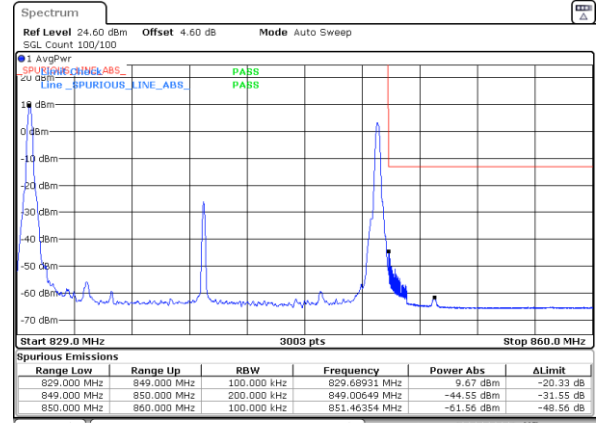
LTE Band 5B / 10MHz+10MHz

256QAM

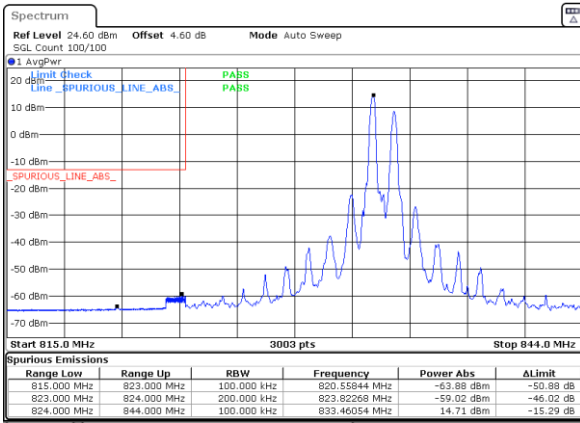
Lowest Band Edge / 1RB0 and 1RB49



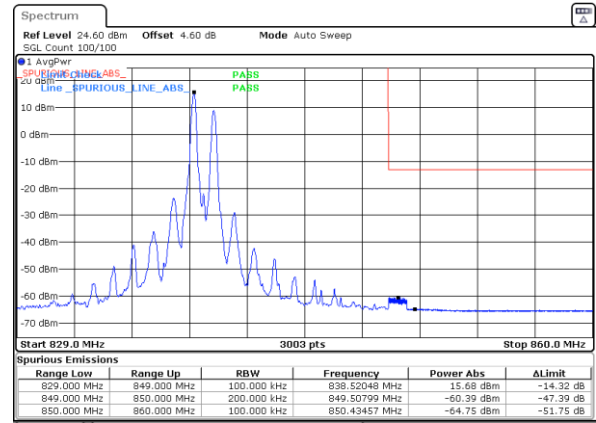
Highest Band Edge / 1RB0 and 1RB49



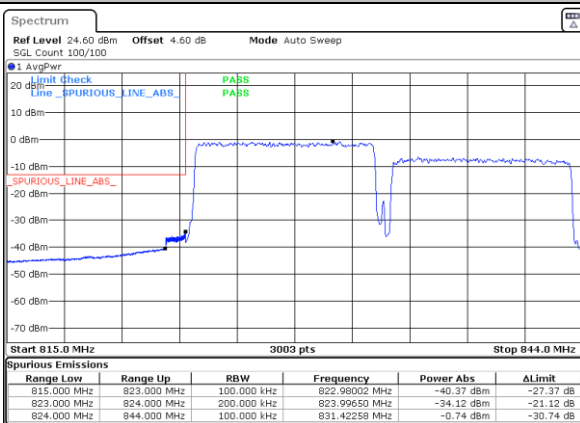
Lowest Band Edge / 1RB49 and 1RB0



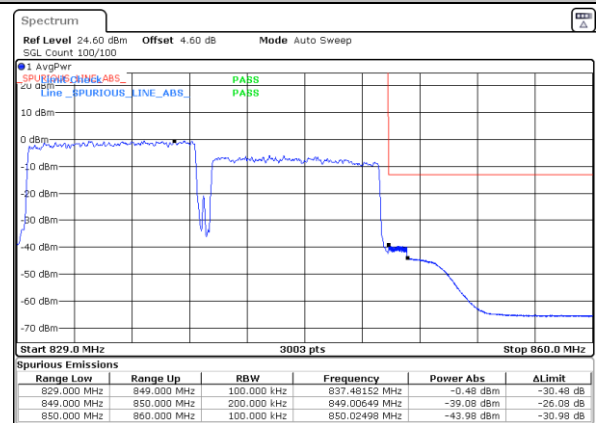
Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





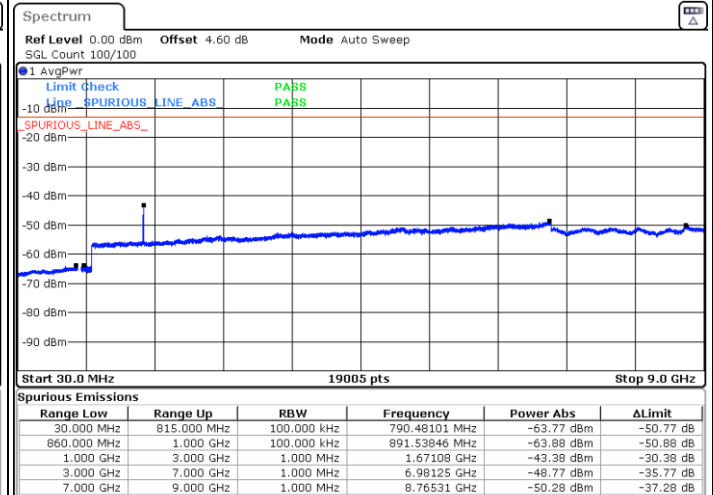
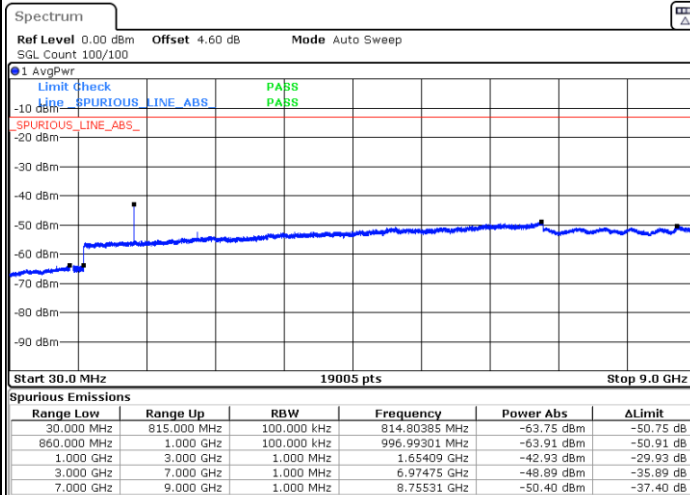
Conducted Spurious Emission

LTE Band 5B / 3MHz+5MHz

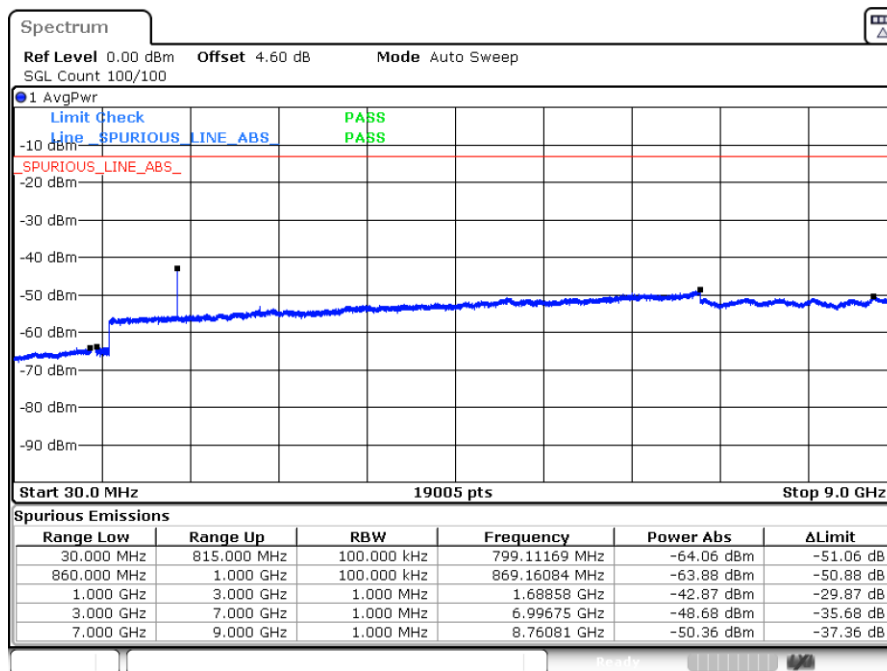
QPSK

Lowest Channel / 1RB14 and 1RB0

Middle Channel / 1RB14 and 1RB0



Highest Channel / 1RB14 and 1RB0



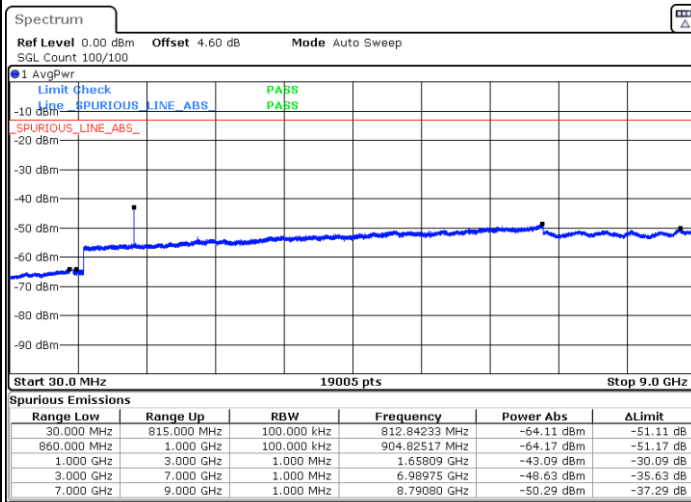


LTE Band 5B / 5MHz+3MHz

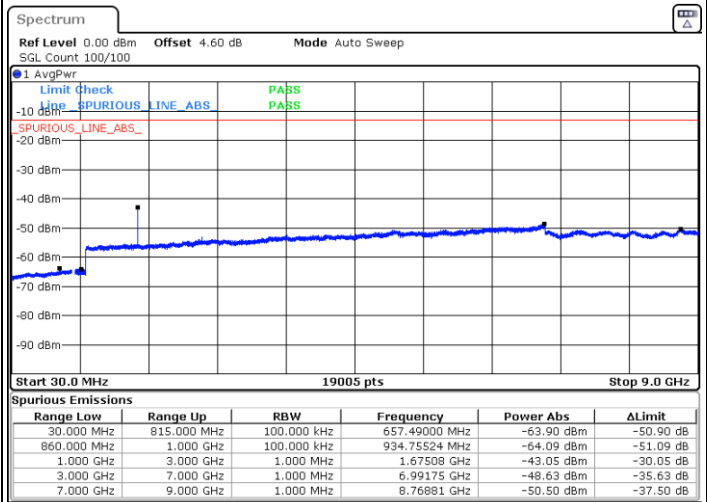
QPSK

Lowest Channel / 1RB24 and 1RB0

Middle Channel / 1RB24 and 1RB0

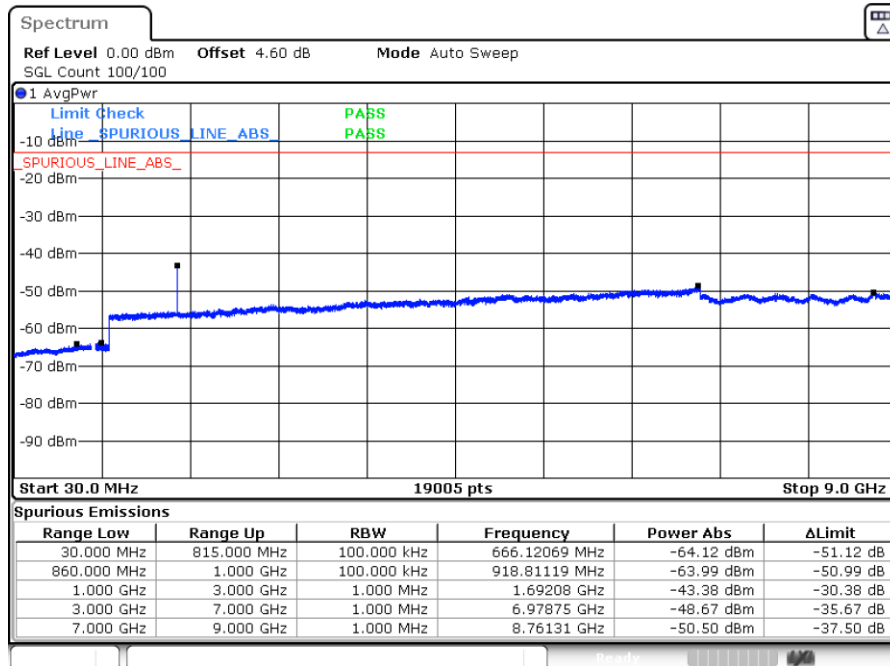


Date: 11.JUL.2024 14:37:41



Date: 11.JUL.2024 14:39:13

Highest Channel / 1RB24 and 1RB0



Date: 11.JUL.2024 14:42:37

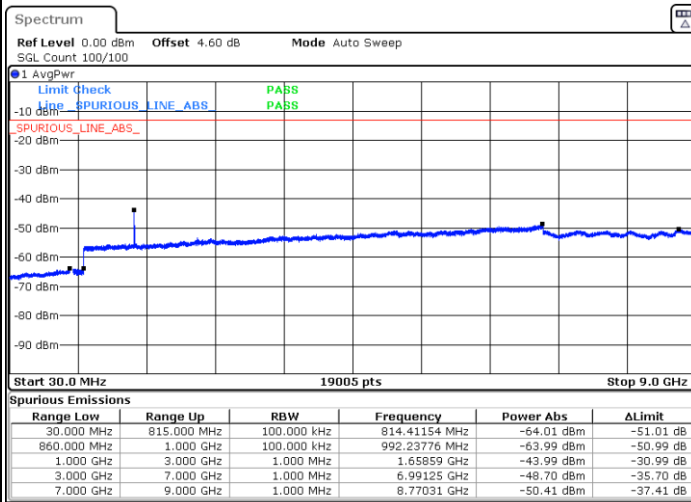


LTE Band 5B / 5MHz+10MHz

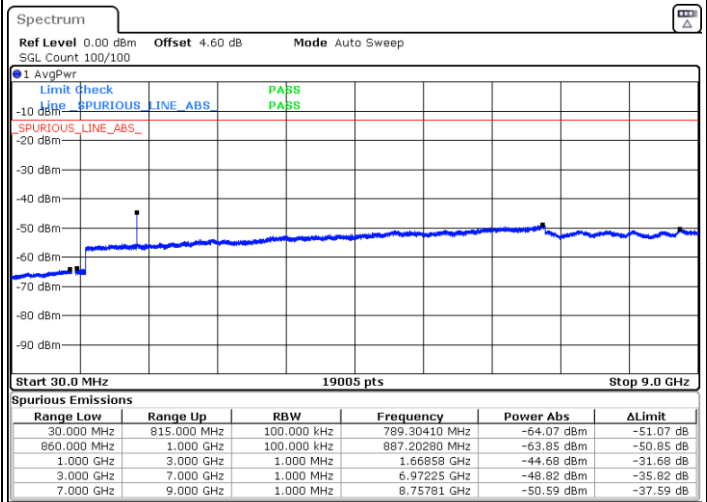
QPSK

Lowest Channel / 1RB24 and 1RB0

Middle Channel / 1RB24 and 1RB0

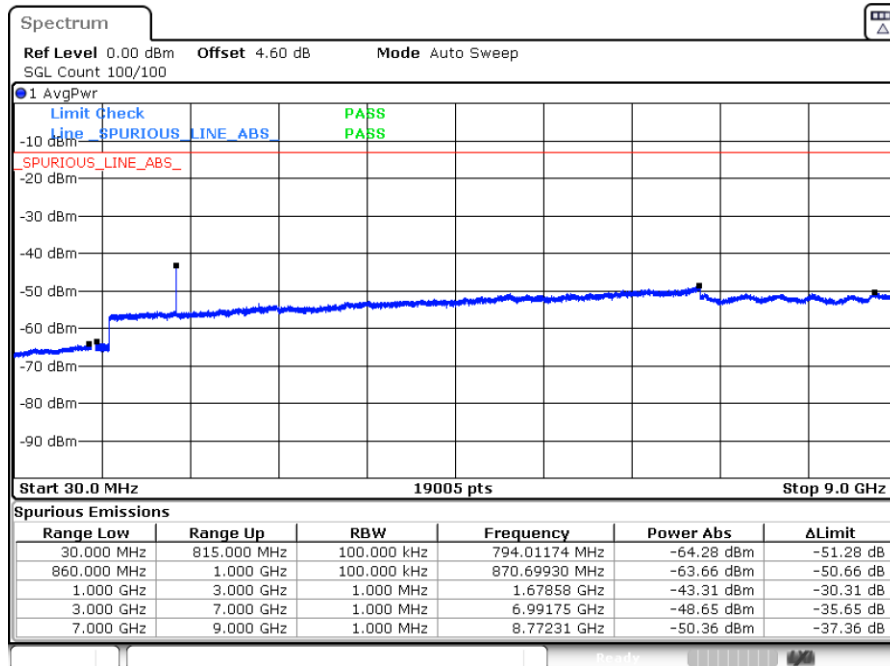


Date: 11.JUL.2024 14:44:09



Date: 11.JUL.2024 14:45:41

Highest Channel / 1RB24 and 1RB0



Date: 11.JUL.2024 14:49:05

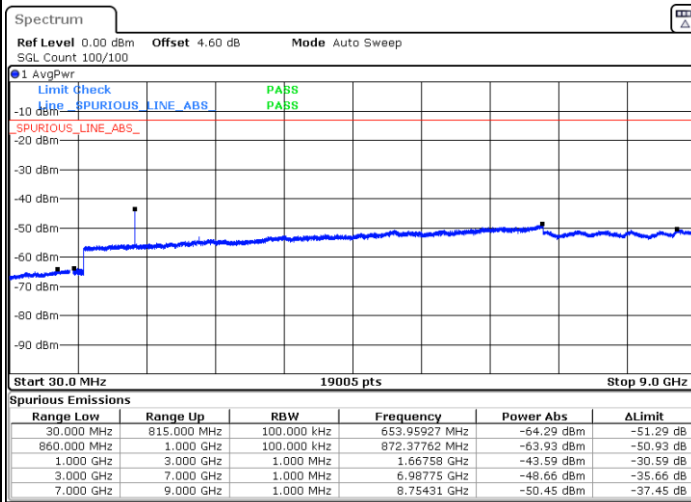


LTE Band 5B / 10MHz+5MHz

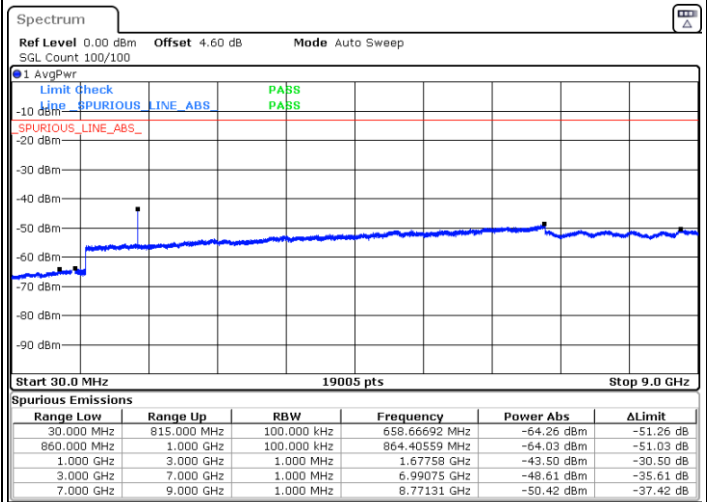
QPSK

Lowest Channel / 1RB49 and 1RB0

Middle Channel / 1RB49 and 1RB0

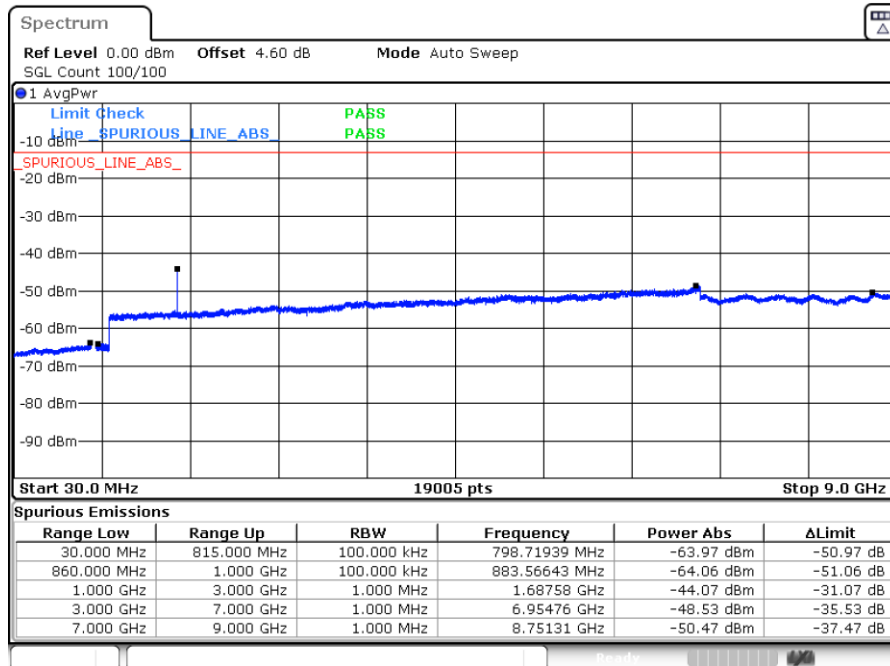


Date: 11.JUL.2024 14:50:38



Date: 11.JUL.2024 14:52:10

Highest Channel / 1RB49 and 1RB0



Date: 11.JUL.2024 14:55:33

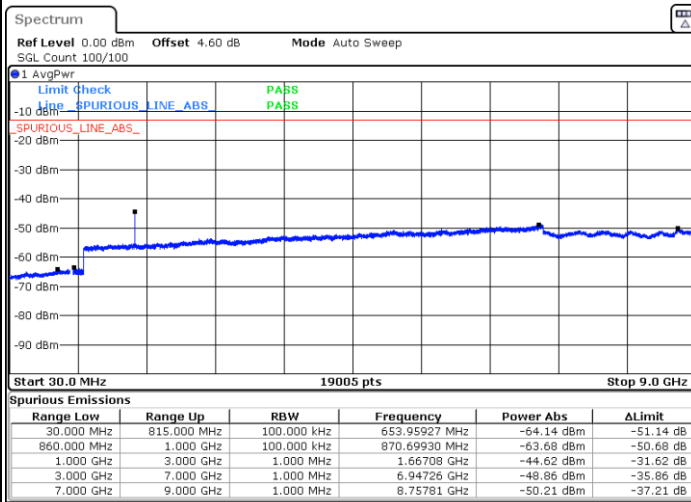


LTE Band 5B / 10MHz+10MHz

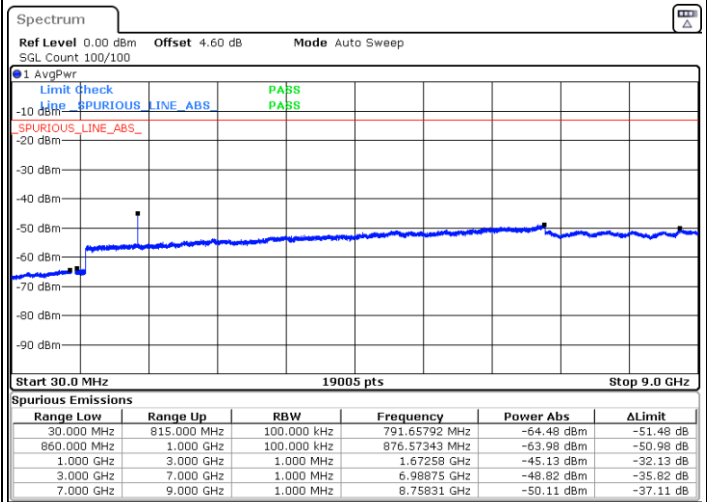
QPSK

Lowest Channel / 1RB49 and 1RB0

Middle Channel / 1RB49 and 1RB0

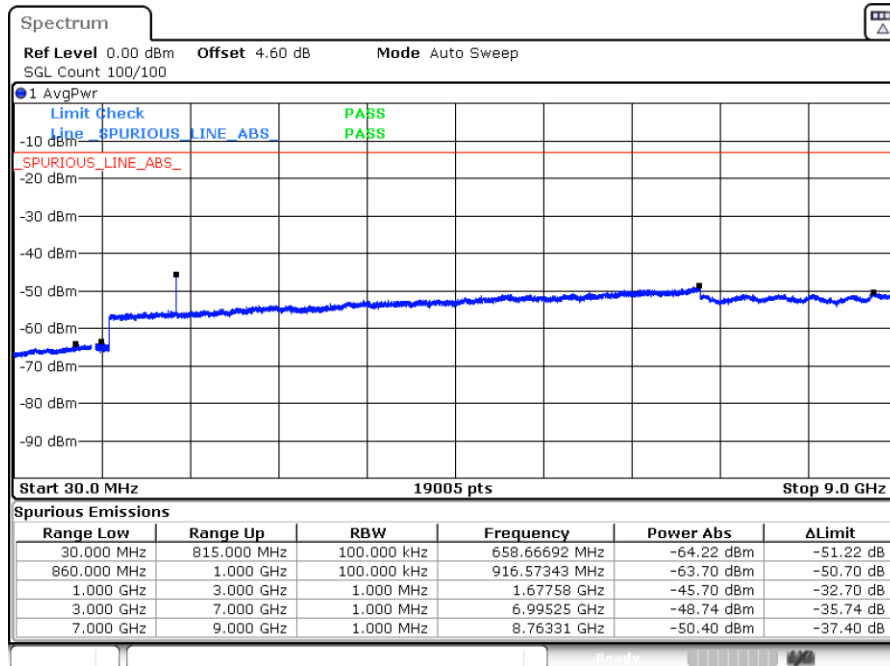


Date: 11.JUL.2024 14:57:06



Date: 11.JUL.2024 14:58:38

Highest Channel / 1RB49 and 1RB0



Date: 11.JUL.2024 15:02:01

**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	0.0017	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0052	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0071	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

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	-66.67	-13	-53.67	-73.64	1.58	10.70	H
	2472	-60.70	-13	-47.70	-68.95	2.102	12.50	H
	3296	-61.10	-13	-48.10	-69.99	2.856	13.90	H
	1672	-65.06	-13	-52.06	-72.03	1.58	10.70	H
	2504	-60.99	-13	-47.99	-69.24	2.102	12.50	H
	3336	-61.34	-13	-48.34	-70.23	2.856	13.90	H
	1648	-65.44	-13	-52.44	-72.41	1.58	10.70	V
	2472	-59.22	-13	-46.22	-67.47	2.10	12.50	V
	3296	-61.12	-13	-48.12	-70.01	2.86	13.90	V
	1672	-64.27	-13	-51.27	-71.24	1.58	10.70	V
	2504	-59.95	-13	-46.95	-68.20	2.10	12.50	V
	3336	-61.43	-13	-48.43	-70.32	2.86	13.90	V
Middle	1656	-65.92	-13	-52.92	-72.89	1.58	10.70	H
	2480	-61.65	-13	-48.65	-69.90	2.102	12.50	H
	3312	-61.49	-13	-48.49	-70.38	2.856	13.90	H
	1672	-65.15	-13	-52.15	-72.12	1.58	10.70	H
	2512	-61.40	-13	-48.40	-69.65	2.102	12.50	H
	3352	-61.29	-13	-48.29	-70.18	2.856	13.90	H
	1656	-65.22	-13	-52.22	-72.19	1.58	10.70	V
	2480	-60.33	-13	-47.33	-68.58	2.10	12.50	V
	3312	-61.75	-13	-48.75	-70.64	2.86	13.90	V
	1672	-64.47	-13	-51.47	-71.44	1.58	10.70	V
	2512	-61.00	-13	-48.00	-69.25	2.10	12.50	V
	3352	-61.35	-13	-48.35	-70.24	2.86	13.90	V
Highest	1656	-66.23	-13	-53.23	-73.20	1.58	10.70	H
	2488	-62.05	-13	-49.05	-70.30	2.102	12.50	H
	3320	-61.28	-13	-48.28	-70.17	2.856	13.90	H
	1680	-65.11	-13	-52.11	-72.08	1.58	10.70	H
	2520	-61.28	-13	-48.28	-69.53	2.102	12.50	H
	3360	-61.85	-13	-48.85	-70.74	2.856	13.90	H
	1656	-65.14	-13	-52.14	-72.11	1.58	10.70	V
	2488	-59.49	-13	-46.49	-67.74	2.10	12.50	V
	3320	-61.19	-13	-48.19	-70.08	2.86	13.90	V
	1680	-64.16	-13	-51.16	-71.13	1.58	10.70	V
	2520	-60.40	-13	-47.40	-68.65	2.10	12.50	V



	3360	-62.09	-13	-49.09	-70.98	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	-63.90	-13	-50.90	-70.87	1.58	10.70	H
	2472	-55.64	-13	-42.64	-63.89	2.102	12.50	H
	3296	-61.66	-13	-48.66	-70.55	2.856	13.90	H
	1648	-63.61	-13	-50.61	-70.58	1.58	10.70	V
	2472	-59.90	-13	-46.90	-68.15	2.10	12.50	V
	3296	-61.52	-13	-48.52	-70.41	2.86	13.90	V
Middle	1656	-64.10	-13	-51.10	-71.07	1.58	10.70	H
	2488	-61.82	-13	-48.82	-70.07	2.102	12.50	H
	3320	-61.09	-13	-48.09	-69.98	2.856	13.90	H
	1656	-63.59	-13	-50.59	-70.56	1.58	10.70	V
	2488	-60.09	-13	-47.09	-68.34	2.10	12.50	V
	3320	-60.94	-13	-47.94	-69.83	2.86	13.90	V
Highest	1672	-62.00	-13	-49.00	-68.97	1.58	10.70	H
	2504	-61.14	-13	-48.14	-69.39	2.102	12.50	H
	3336	-61.58	-13	-48.58	-70.47	2.856	13.90	H
	1672	-62.97	-13	-49.97	-69.94	1.58	10.70	V
	2504	-60.07	-13	-47.07	-68.32	2.10	12.50	V
	3336	-61.64	-13	-48.64	-70.53	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	-62.79	-13	-49.79	-65.42	1.09	5.87	H
	2328	-59.94	-13	-46.94	-62.34	1.37	5.92	H
	3112	-61.00	-13	-48.00	-64.89	1.64	7.68	H
	1552	-63.00	-13	-50.00	-65.63	1.09	5.87	V
	2328	-60.90	-13	-47.90	-63.30	1.37	5.92	V
	3112	-60.77	-13	-47.77	-64.66	1.64	7.68	V
Middle	1560	-63.82	-42.15	-21.67	-66.45	1.09	5.87	H
	2336	-60.60	-13	-47.60	-63.00	1.37	5.92	H
	3120	-61.15	-13	-48.15	-65.04	1.64	7.68	H
	1560	-62.22	-42.15	-20.07	-64.85	1.09	5.87	V
	2336	-60.42	-13	-47.42	-62.82	1.37	5.92	V
	3120	-61.05	-13	-48.05	-64.94	1.64	7.68	V
Highest	1568	-62.30	-42.15	-20.15	-64.93	1.09	5.87	H
	2344	-59.69	-13	-46.69	-62.09	1.37	5.92	H
	3128	-60.98	-13	-47.98	-64.87	1.64	7.68	H
	1568	-62.75	-42.15	-20.60	-65.38	1.09	5.87	V



	2344	-59.85	-13	-46.85	-62.25	1.37	5.92	V
	3128	-60.87	-13	-47.87	-64.76	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	-63.56	-13	-50.56	-66.19	1.09	5.87	H
	2336	-60.87	-13	-47.87	-63.27	1.37	5.92	H
	3112	-60.73	-13	-47.73	-64.62	1.64	7.68	H
	1552	-65.00	-13	-52.00	-67.63	1.09	5.87	V
	2336	-60.32	-13	-47.32	-62.72	1.37	5.92	V
	3112	-60.33	-13	-47.33	-64.22	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	-63.23	-13	-50.23	-64.98	1.02	4.92	H
	1992	-59.37	-13	-46.37	-61.34	1.27	5.39	H
	2656	-61.41	-13	-48.41	-64.34	1.49	6.57	H
	1328	-61.75	-13	-48.75	-63.50	1.02	4.92	V
	1992	-61.96	-13	-48.96	-63.93	1.27	5.39	V
	2656	-60.72	-13	-47.72	-63.65	1.49	6.57	V
Middle	1344	-63.23	-13	-50.23	-64.98	1.02	4.92	H
	2016	-60.24	-13	-47.24	-62.21	1.27	5.39	H
	2688	-60.72	-13	-47.72	-63.65	1.49	6.57	H
	1344	-61.73	-13	-48.73	-63.48	1.02	4.92	V
	2016	-62.26	-13	-49.26	-64.23	1.27	5.39	V
	2688	-60.37	-13	-47.37	-63.30	1.49	6.57	V
Highest	1360	-62.70	-13	-49.70	-64.45	1.02	4.92	H
	2040	-56.28	-13	-43.28	-58.25	1.27	5.39	H
	2720	-60.80	-13	-47.80	-63.73	1.49	6.57	H
	1360	-60.13	-13	-47.13	-61.88	1.02	4.92	V
	2040	-62.63	-13	-49.63	-64.60	1.27	5.39	V
	2720	-60.52	-13	-47.52	-63.45	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)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-66.16	-13	-53.16	-73.13	1.58	10.70	H
	2472	-61.71	-13	-48.71	-69.96	2.102	12.50	H
	3296	-61.37	-13	-48.37	-70.26	2.856	13.90	H
	1672	-64.88	-13	-51.88	-71.85	1.58	10.70	H
	2504	-60.96	-13	-47.96	-69.21	2.102	12.50	H
	3336	-61.00	-13	-48.00	-69.89	2.856	13.90	H
	1648	-65.36	-13	-52.36	-72.33	1.58	10.70	V
	2472	-56.84	-13	-43.84	-65.09	2.10	12.50	V
	3296	-61.48	-13	-48.48	-70.37	2.86	13.90	V
	1672	-63.83	-13	-50.83	-70.80	1.58	10.70	V
	2504	-60.04	-13	-47.04	-68.29	2.10	12.50	V
	3336	-60.58	-13	-47.58	-69.47	2.86	13.90	V
Middle	1656	-66.12	-13	-53.12	-73.09	1.58	10.70	H
	2480	-61.84	-13	-48.84	-70.09	2.102	12.50	H
	3312	-61.43	-13	-48.43	-70.32	2.856	13.90	H
	1672	-64.99	-13	-51.99	-71.96	1.58	10.70	H
	2512	-60.63	-13	-47.63	-68.88	2.102	12.50	H
	3352	-60.97	-13	-47.97	-69.86	2.856	13.90	H
	1656	-64.91	-13	-51.91	-71.88	1.58	10.70	V
	2480	-59.71	-13	-46.71	-67.96	2.10	12.50	V
	3312	-61.26	-13	-48.26	-70.15	2.86	13.90	V
	1672	-63.89	-13	-50.89	-70.86	1.58	10.70	V
	2512	-60.20	-13	-47.20	-68.45	2.10	12.50	V
	3352	-61.03	-13	-48.03	-69.92	2.86	13.90	V
Highest	1656	-66.14	-13	-53.14	-73.11	1.58	10.70	H
	2488	-61.97	-13	-48.97	-70.22	2.102	12.50	H
	3320	-60.60	-13	-47.60	-69.49	2.856	13.90	H
	1680	-64.65	-13	-51.65	-71.62	1.58	10.70	H
	2520	-60.65	-13	-47.65	-68.90	2.102	12.50	H
	3360	-61.89	-13	-48.89	-70.78	2.856	13.90	H
	1656	-64.98	-13	-51.98	-71.95	1.58	10.70	V
	2488	-59.88	-13	-46.88	-68.13	2.10	12.50	V
	3320	-60.74	-13	-47.74	-69.63	2.86	13.90	V
	1680	-63.76	-13	-50.76	-70.73	1.58	10.70	V
	2520	-60.04	-13	-47.04	-68.29	2.10	12.50	V
	3360	-61.29	-13	-48.29	-70.18	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	-66.48	-13	-53.48	-73.45	1.58	10.70	H
	2472	-59.09	-13	-46.09	-67.34	2.102	12.50	H
	3296	-61.45	-13	-48.45	-70.34	2.856	13.90	H
	1648	-65.41	-13	-52.41	-72.38	1.58	10.70	V
	2472	-59.67	-13	-46.67	-67.92	2.10	12.50	V
	3296	-61.04	-13	-48.04	-69.93	2.86	13.90	V
Middle	1656	-65.97	-13	-52.97	-72.94	1.58	10.70	H
	2488	-61.60	-13	-48.60	-69.85	2.102	12.50	H
	3320	-60.81	-13	-47.81	-69.70	2.856	13.90	H
	1656	-64.77	-13	-51.77	-71.74	1.58	10.70	V
	2488	-59.87	-13	-46.87	-68.12	2.10	12.50	V
	3320	-60.72	-13	-47.72	-69.61	2.86	13.90	V
Highest	1672	-64.83	-13	-51.83	-71.80	1.58	10.70	H
	2504	-60.99	-13	-47.99	-69.24	2.102	12.50	H
	3336	-60.69	-13	-47.69	-69.58	2.856	13.90	H
	1672	-63.66	-13	-50.66	-70.63	1.58	10.70	V
	2504	-59.12	-13	-46.12	-67.37	2.10	12.50	V
	3336	-60.76	-13	-47.76	-69.65	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	-67.81	-13	-54.81	-70.44	1.09	5.87	H
	2336	-61.86	-13	-48.86	-64.26	1.37	5.92	H
	3112	-60.86	-13	-47.86	-64.75	1.64	7.68	H
	1552	-66.89	-13	-53.89	-69.52	1.09	5.87	V
	2336	-60.31	-13	-47.31	-62.71	1.37	5.92	V
	3112	-60.59	-13	-47.59	-64.48	1.64	7.68	V
Middle	1560	-67.16	-42.15	-25.01	-69.79	1.09	5.87	H
	2336	-62.06	-13	-49.06	-64.46	1.37	5.92	H
	3120	-60.96	-13	-47.96	-64.85	1.64	7.68	H
	1560	-65.95	-42.15	-23.80	-68.58	1.09	5.87	V
	2336	-60.62	-13	-47.62	-63.02	1.37	5.92	V
	3120	-60.60	-13	-47.60	-64.49	1.64	7.68	V
Highest	1568	-67.00	-42.15	-24.85	-69.63	1.09	5.87	H
	2344	-61.53	-13	-48.53	-63.93	1.37	5.92	H
	3128	-60.26	-13	-47.26	-64.15	1.64	7.68	H
	1568	-66.04	-42.15	-23.89	-68.67	1.09	5.87	V
	2344	-60.27	-13	-47.27	-62.67	1.37	5.92	V
	3128	-60.34	-13	-47.34	-64.23	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	-67.95	-13	-54.95	-70.58	1.09	5.87	H
	2336	-62.04	-13	-49.04	-64.44	1.37	5.92	H
	3112	-60.88	-13	-47.88	-64.77	1.64	7.68	H
	1552	-67.07	-13	-54.07	-69.70	1.09	5.87	V
	2336	-60.56	-13	-47.56	-62.96	1.37	5.92	V
	3112	-60.49	-13	-47.49	-64.38	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	-68.63	-13	-55.63	-70.38	1.02	4.92	H
	1992	-62.64	-13	-49.64	-64.61	1.27	5.39	H
	2656	-61.77	-13	-48.77	-64.70	1.49	6.57	H
	1328	-67.64	-13	-54.64	-69.39	1.02	4.92	V
	1992	-61.94	-13	-48.94	-63.91	1.27	5.39	V
	2656	-61.23	-13	-48.23	-64.16	1.49	6.57	V
Middle	1344	-68.58	-13	-55.58	-70.33	1.02	4.92	H
	2016	-62.64	-13	-49.64	-64.61	1.27	5.39	H
	2688	-60.61	-13	-47.61	-63.54	1.49	6.57	H
	1344	-67.94	-13	-54.94	-69.69	1.02	4.92	V
	2016	-61.35	-13	-48.35	-63.32	1.27	5.39	V
	2688	-59.96	-13	-46.96	-62.89	1.49	6.57	V
Highest	1360	-67.47	-13	-54.47	-69.22	1.02	4.92	H
	2040	-62.91	-13	-49.91	-64.88	1.27	5.39	H
	2720	-60.51	-13	-47.51	-63.44	1.49	6.57	H
	1360	-67.36	-13	-54.36	-69.11	1.02	4.92	V
	2040	-62.42	-13	-49.42	-64.39	1.27	5.39	V
	2720	-60.21	-13	-47.21	-63.14	1.49	6.57	V

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