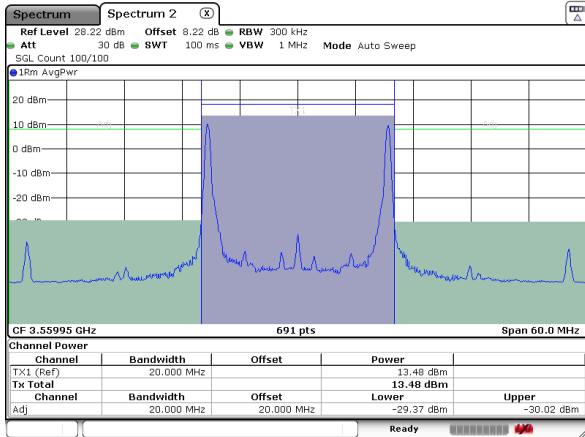




LTE Band 48B / 10MHz+10MHz

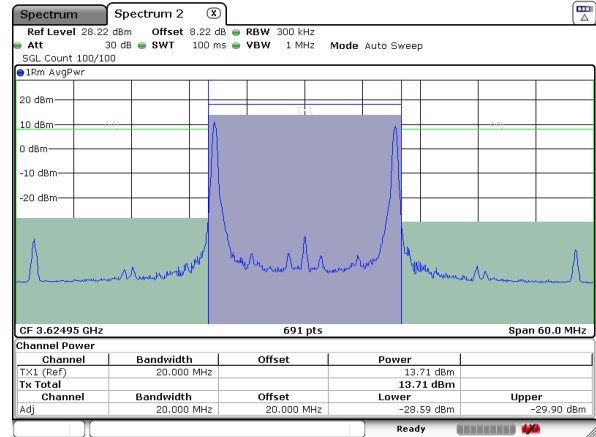
256QAM

Lowest Band Edge / 1RB0 and 1RB99



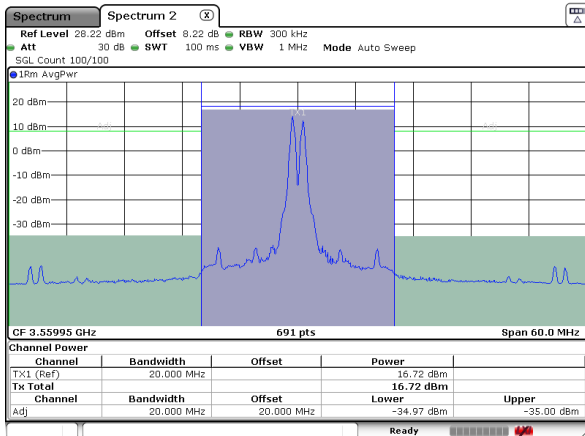
Date: 14 MAY 2022 02:36:44

Middle Band Edge / 1RB0 and 1RB99



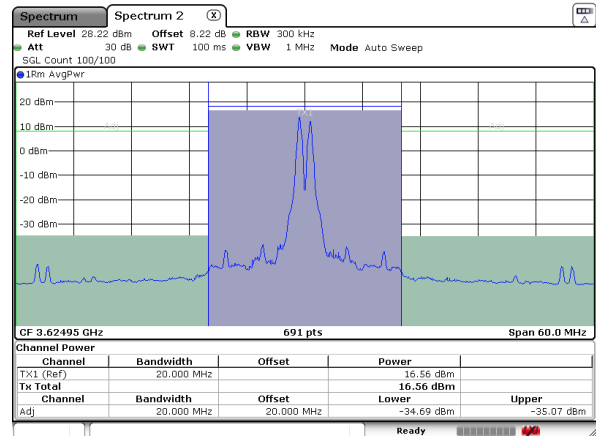
Date: 14 MAY 2022 02:47:21

Lowest Band Edge / 1RB99 and 1RB0



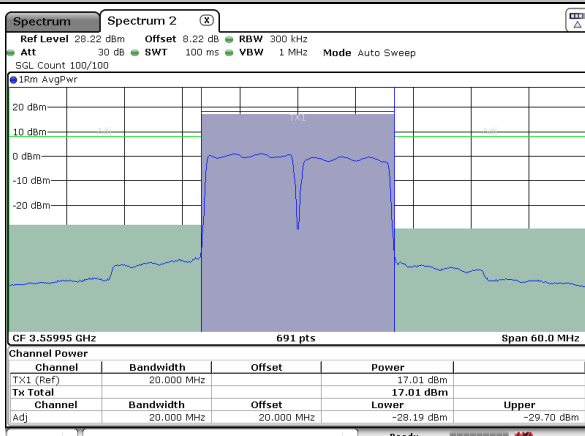
Date: 14 MAY 2022 02:31:42

Middle Band Edge / 1RB99 and 1RB0



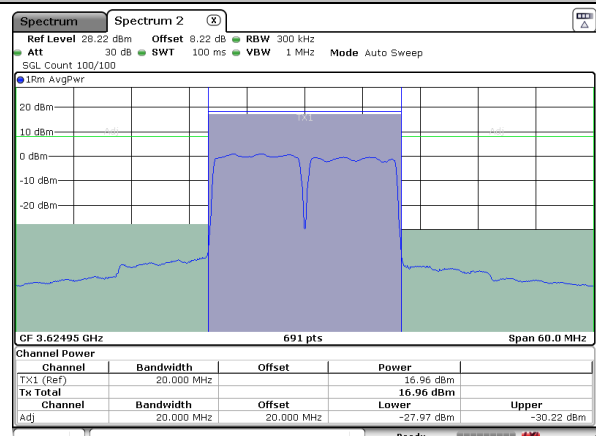
Date: 14 MAY 2022 02:46:25

Lowest Band Edge / Full RB



Date: 14 MAY 2022 02:35:27

Middle Band Edge / Full RB



Date: 14 MAY 2022 02:48:11

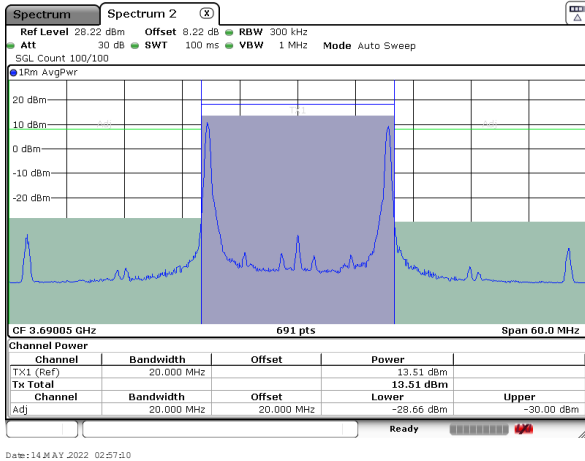


LTE Band 48B / 10MHz+10MHz

256QAM

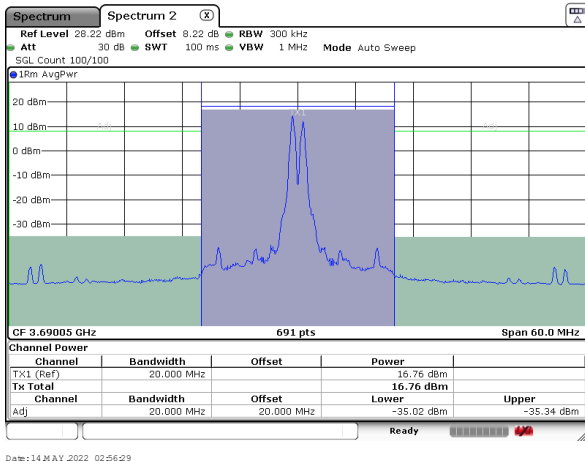
Highest Band Edge / 1RB0 and 1RB99

N/A



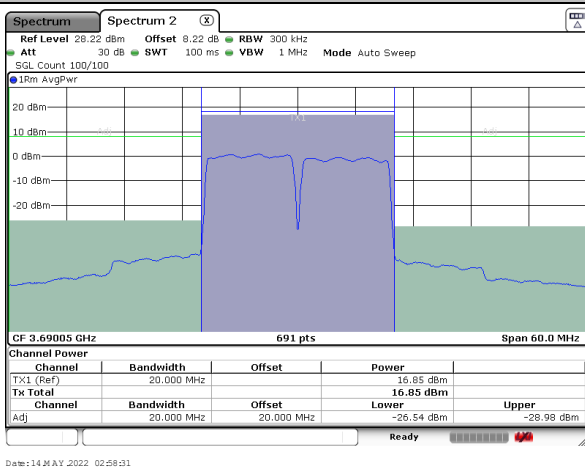
Highest Band Edge / 1RB99 and 1RB0

N/A



Highest Band Edge / Full RB

N/A



Frequency Stability

Test Conditions		LTE Band 48B (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10+10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0038	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0047	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for testing, we choose the worst antenna mode to test.

LTE Band 48 / 20MHz / QPSK for Ant. 3									
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	7102.00	-58.57	-40	-18.57	-65.88	-61.90	8.25	11.58	H
	10653.00	-55.11	-40	-15.11	-67.60	-56.66	10.45	12.00	H
	14204.00	-55.60	-40	-15.60	-69.62	-57.31	11.74	13.45	H
	7102.00	-57.54	-40	-17.54	-66.01	-60.87	8.25	11.58	V
	10653.00	-52.56	-40	-12.56	-67.51	-54.11	10.45	12.00	V
	14204.00	-56.16	-40	-16.16	-69.57	-57.87	11.74	13.45	V
Middle	7232.00	-57.93	-40	-17.93	-65.90	-61.23	8.30	11.60	H
	10848.00	-54.14	-40	-14.14	-67.34	-55.66	10.48	12.00	H
	14464.00	-54.87	-40	-14.87	-69.28	-56.57	11.80	13.50	H
	7232.00	-56.11	-40	-16.11	-65.81	-59.41	8.30	11.60	V
	10848.00	-52.68	-40	-12.68	-67.5	-54.20	10.48	12.00	V
	14464.00	-55.08	-40	-15.08	-69.08	-56.78	11.80	13.50	V
Highest	7362.00	-57.07	-40	-17.07	-65.41	-60.37	8.32	11.62	H
	11043.00	-53.67	-40	-13.67	-67.48	-55.35	10.52	12.20	H
	14724.00	-53.91	-40	-13.91	-69.21	-55.61	11.85	13.55	H
	7362.00	-56.99	-40	-16.99	-65.69	-60.29	8.32	11.62	V
	11043.00	-52.45	-40	-12.45	-67.61	-54.13	10.52	12.20	V
	14724.00	-53.78	-40	-13.78	-69.17	-55.48	11.85	13.55	V

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



LTE Band 48C_CA / 20MHz+20MHz / QPSK for Ant. 3									
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	7139.80	-58.01	-40	-18.01	-65.51	-61.34	8.25	11.58	H
	10709.70	-54.57	-40	-14.57	-67.26	-56.12	10.45	12.00	H
	14279.60	-55.10	-40	-15.10	-69.23	-56.81	11.74	13.45	H
	7139.80	-56.26	-40	-16.26	-65.24	-59.59	8.25	11.58	V
	10709.70	-52.11	-40	-12.11	-67.3	-53.66	10.45	12.00	V
	14279.60	-55.48	-40	-15.48	-69.05	-57.19	11.74	13.45	V
Middle	7250.00	-57.65	-40	-17.65	-65.67	-60.95	8.30	11.60	H
	10875.00	-53.97	-40	-13.97	-67.30	-55.49	10.48	12.00	H
	14500.00	-54.52	-40	-14.52	-68.99	-56.22	11.80	13.50	H
	7250.00	-55.94	-40	-15.94	-65.5	-59.24	8.30	11.60	V
	10875.00	-52.15	-40	-12.15	-67.13	-53.67	10.48	12.00	V
	14500.00	-55.15	-40	-15.15	-69.23	-56.85	11.80	13.50	V
Highest	7360.20	-57.03	-40	-17.03	-65.37	-60.33	8.32	11.62	H
	11040.30	-53.94	-40	-13.94	-67.75	-55.62	10.52	12.20	H
	14720.40	-53.80	-40	-13.80	-69.10	-55.50	11.85	13.55	H
	7360.20	-56.95	-40	-16.95	-65.65	-60.25	8.32	11.62	V
	11040.30	-52.46	-40	-12.46	-67.62	-54.14	10.52	12.20	V
	14720.40	-53.64	-40	-13.64	-69.03	-55.34	11.85	13.55	V

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



LTE Band 48B_CA / 10MHz+10MHz / QPSK for Ant. 3									
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	7101.50	-59.29	-40	-19.29	-66.60	-62.62	8.25	11.58	H
	10652.25	-55.28	-40	-15.28	-67.77	-56.83	10.45	12.00	H
	14203.00	-56.56	-40	-16.56	-70.58	-58.27	11.74	13.45	H
	7101.50	-57.88	-40	-17.88	-66.35	-61.21	8.25	11.58	V
	10652.25	-53.20	-40	-13.20	-68.15	-54.75	10.45	12.00	V
	14203.00	-56.94	-40	-16.94	-70.35	-58.65	11.74	13.45	V
Middle	7202.50	-58.91	-40	-18.91	-66.77	-62.21	8.30	11.60	H
	10803.75	-55.39	-40	-15.39	-68.46	-56.91	10.48	12.00	H
	14405.00	-55.41	-40	-15.41	-69.75	-57.11	11.80	13.50	H
	7202.50	-56.66	-40	-16.66	-66.65	-59.96	8.30	11.60	V
	10803.75	-53.69	-40	-13.69	-68.35	-55.21	10.48	12.00	V
	14405.00	-56.29	-40	-16.29	-70.17	-57.99	11.80	13.50	V
Highest	7371.50	-58.27	-40	-18.27	-66.67	-61.57	8.32	11.62	H
	11057.25	-55.06	-40	-15.06	-68.88	-56.74	10.52	12.20	H
	14743.00	-54.01	-40	-14.01	-69.38	-55.71	11.85	13.55	H
	7371.50	-58.05	-40	-18.05	-66.61	-61.35	8.32	11.62	V
	11057.25	-53.65	-40	-13.65	-69.01	-55.33	10.52	12.20	V
	14743.00	-54.47	-40	-14.47	-69.96	-56.17	11.85	13.55	V

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