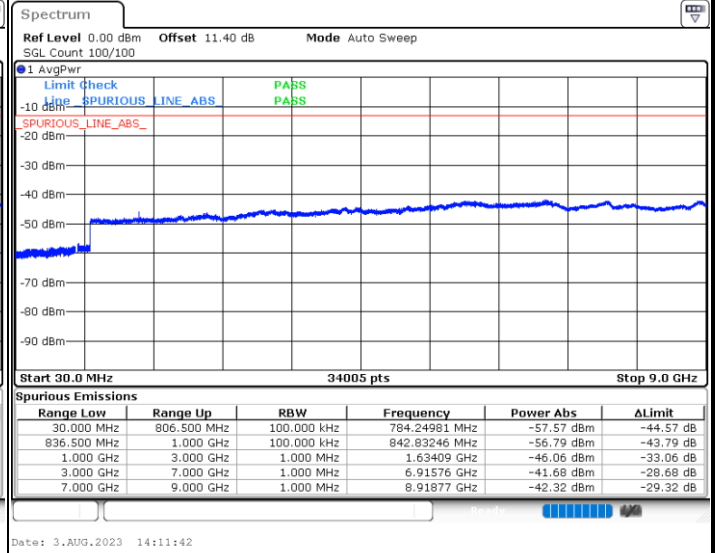
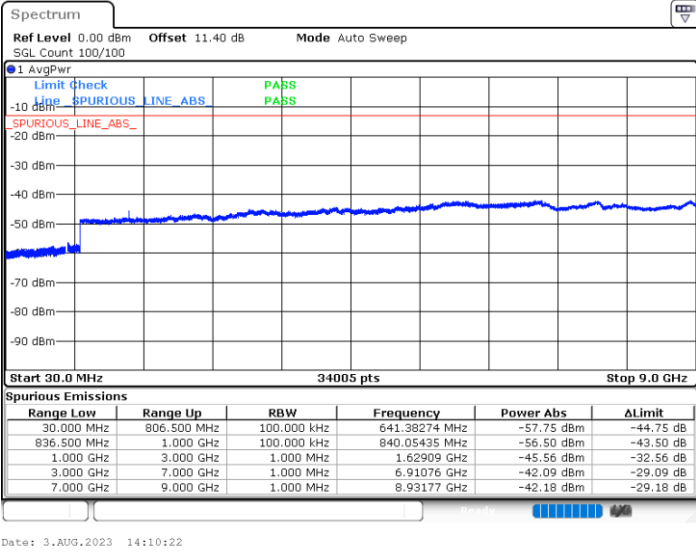




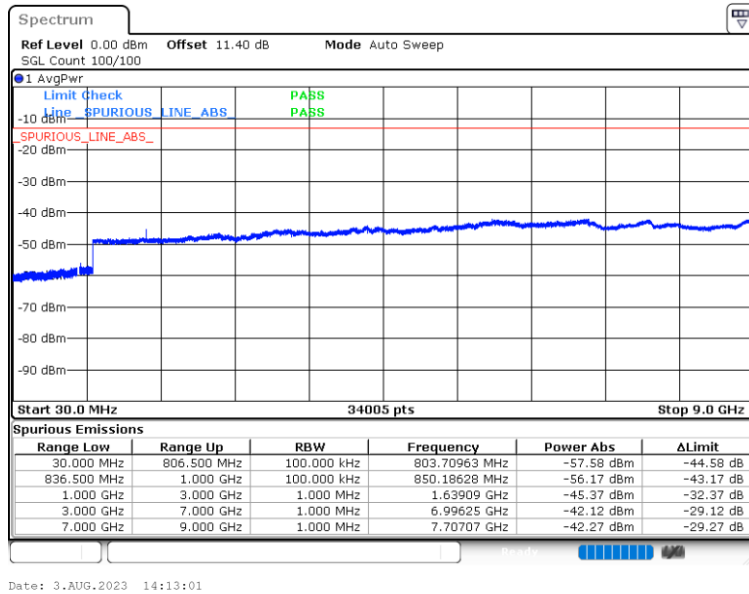
LTE Band 26 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



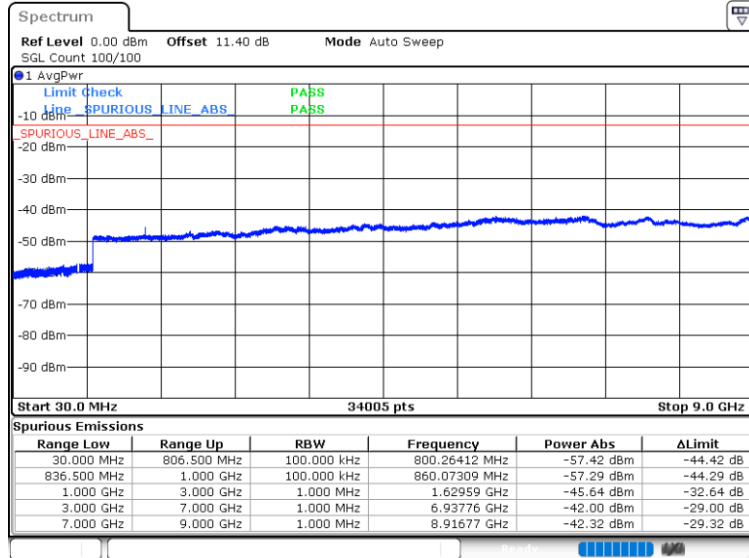
Highest Channel / QPSK





LTE Band 26 / 10MHz

Middle Channel / QPSK

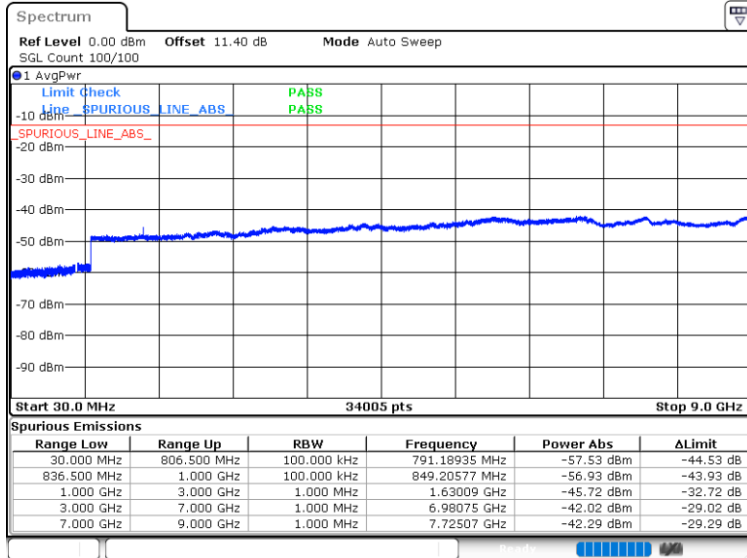


Date: 3.AUG.2023 14:14:26



LTE Band 26 / 15MHz

Middle Channel / QPSK



Date: 3.AUG.2023 14:15:52



### 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	0.0106	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0107	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0073	
-20	Normal Voltage	0.0083	
-30	Normal Voltage	0.0089	
20	Maximum Voltage	0.0057	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0100	

**Note:**

- 1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
- 2. 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	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0000	PASS
40	Normal Voltage	0.0052	
30	Normal Voltage	0.0068	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0084	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0063	
20	Maximum Voltage	0.0114	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0111	

**Note:**

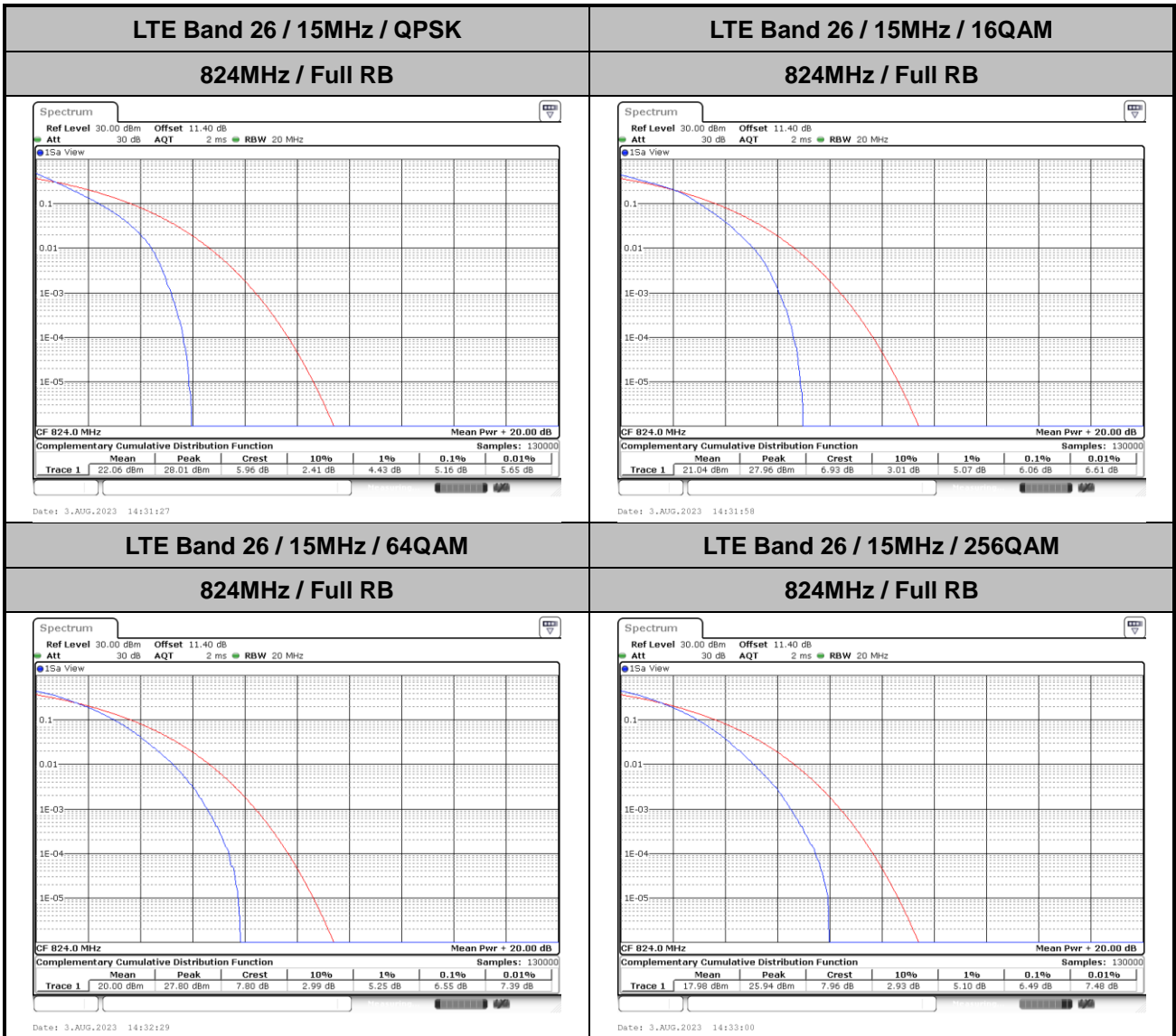
- 1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.



# LTE Band 26\_ 824MHz

## Peak-to-Average Ratio

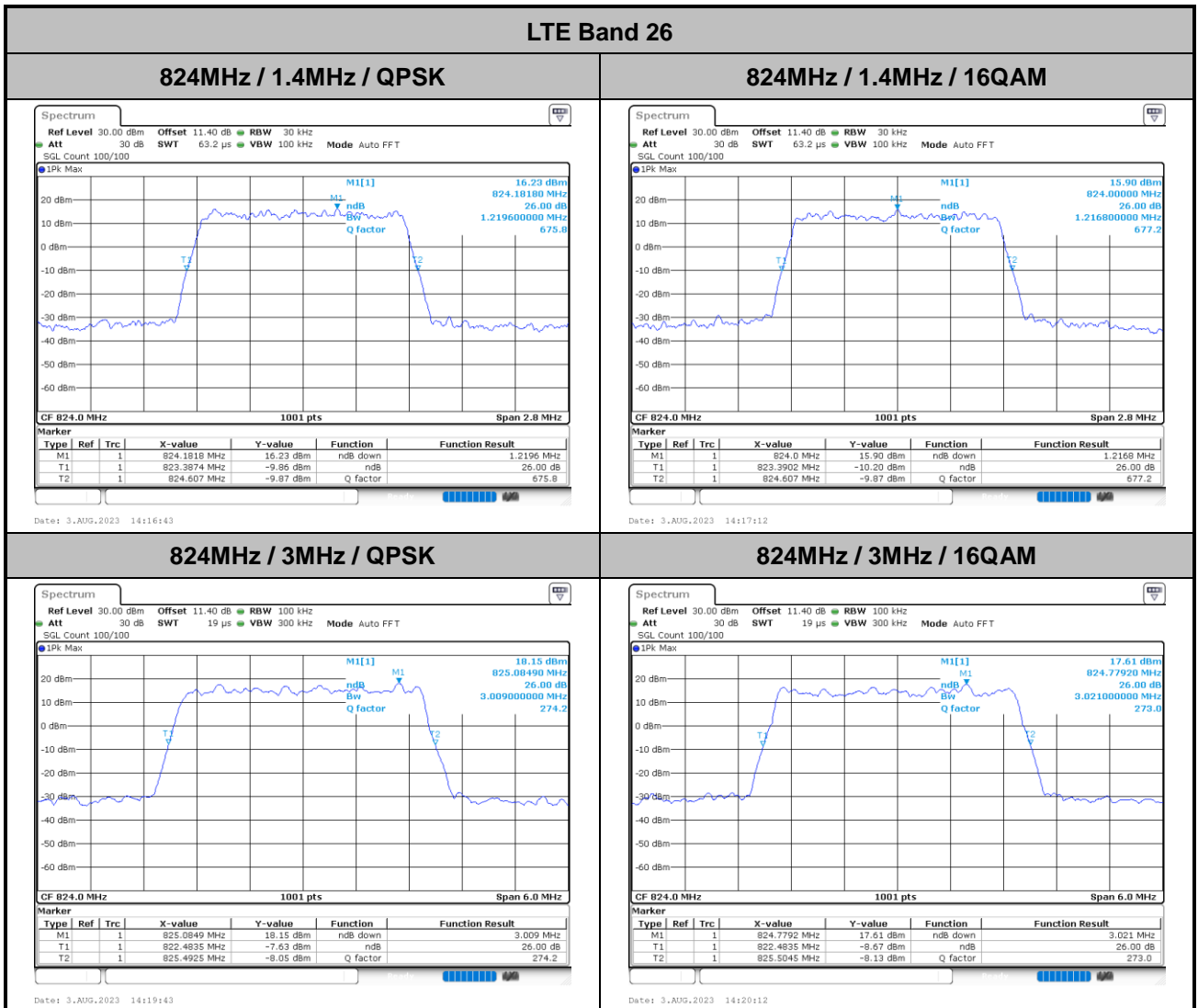
Mode	LTE Band 26 / 15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
824MHz	5.16	6.06	6.55	6.49	PASS





## 26dB Bandwidth

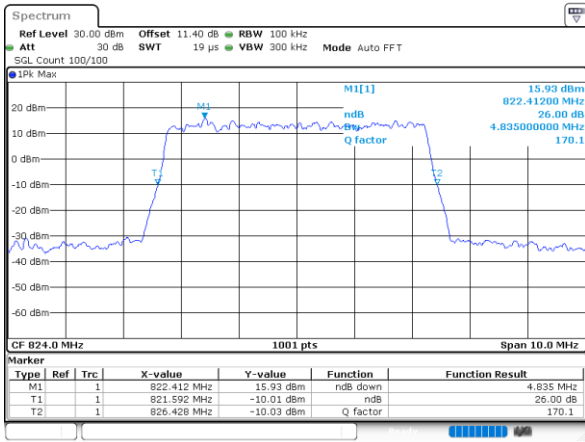
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.22	1.22	3.01	3.02	4.84	4.85	9.71	9.75	14.54	14.48	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.25	1.23	3.06	2.99	4.89	4.82	9.81	9.77	14.51	14.45	-	-



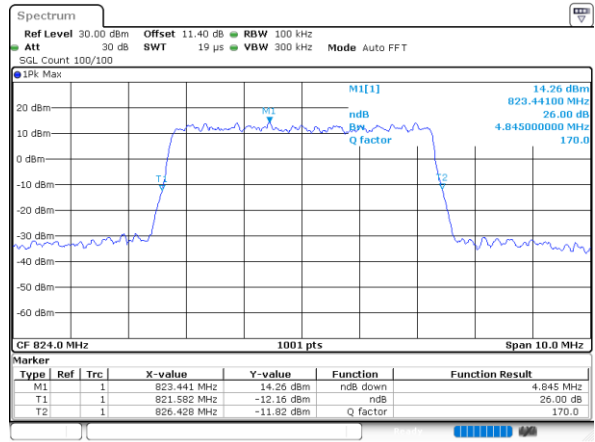


LTE Band 26

824MHz / 5MHz / QPSK



824MHz / 5MHz / 16QAM

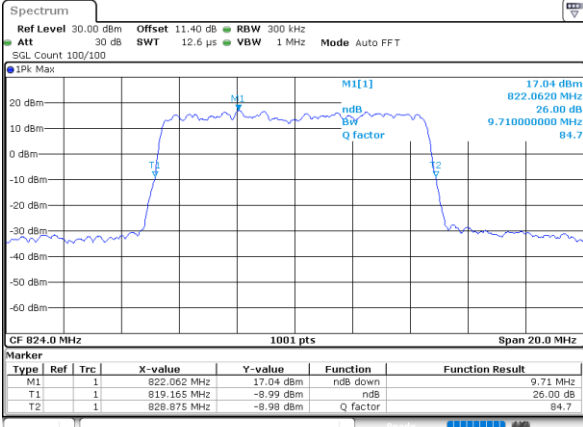






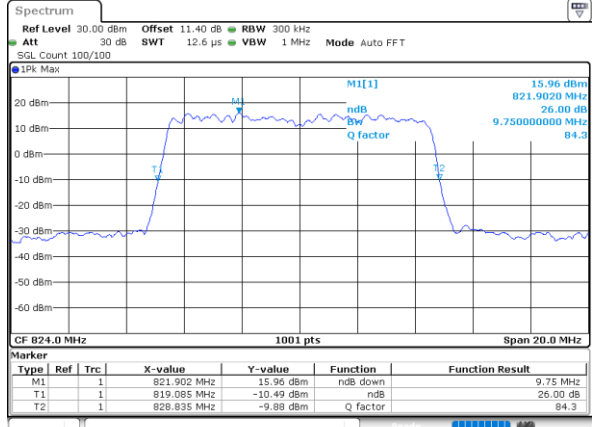
LTE Band 26

824MHz / 10MHz / QPSK



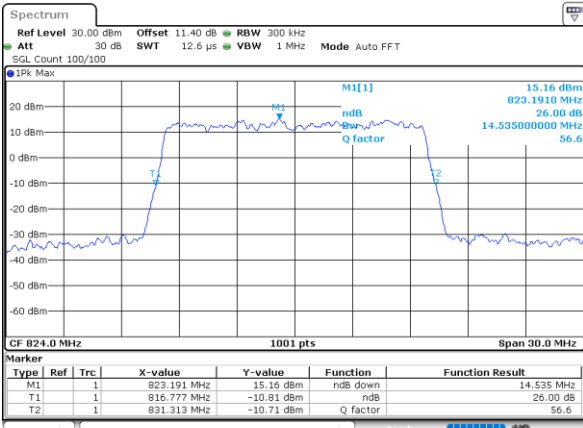
Date: 3,AUG,2023 14:25:43

824MHz / 10MHz / 16QAM



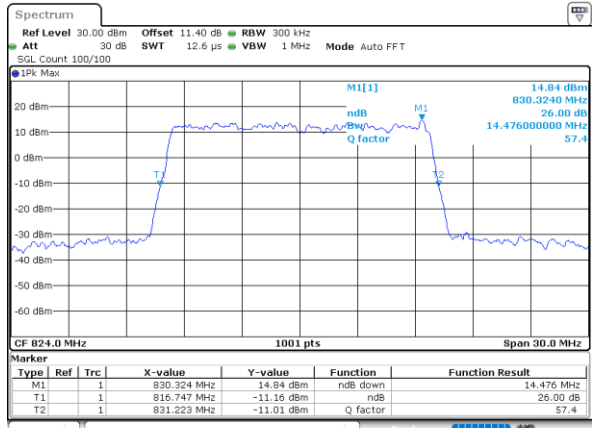
Date: 3,AUG,2023 14:26:12

824MHz / 15MHz / QPSK



Date: 3,AUG,2023 14:28:42

824MHz / 15MHz / 16QAM

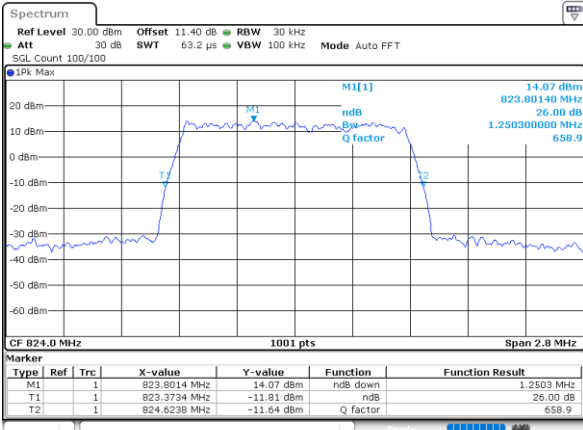


Date: 3,AUG,2023 14:29:12



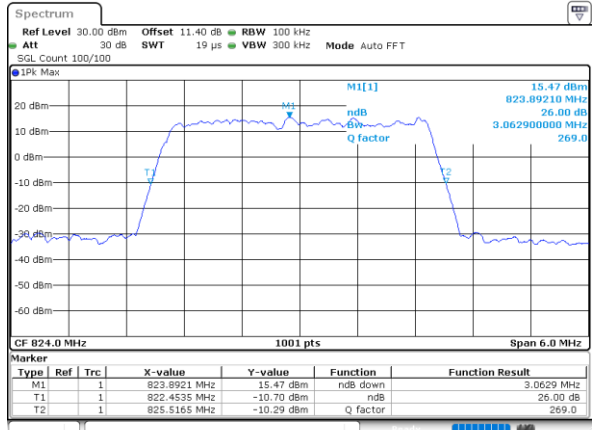
LTE Band 26

824MHz / 1.4MHz / 64QAM



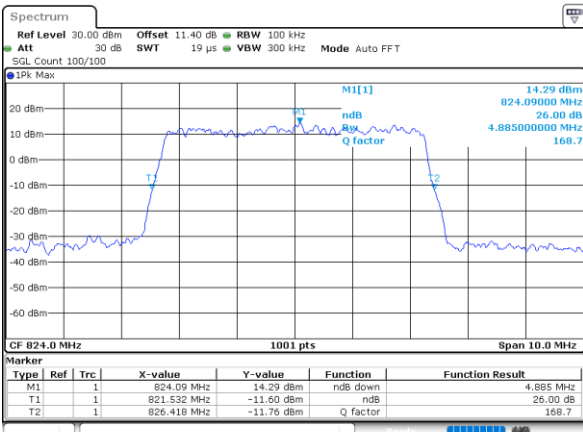
Date: 3.AUG.2023 14:18:10

824MHz / 3MHz / 64QAM



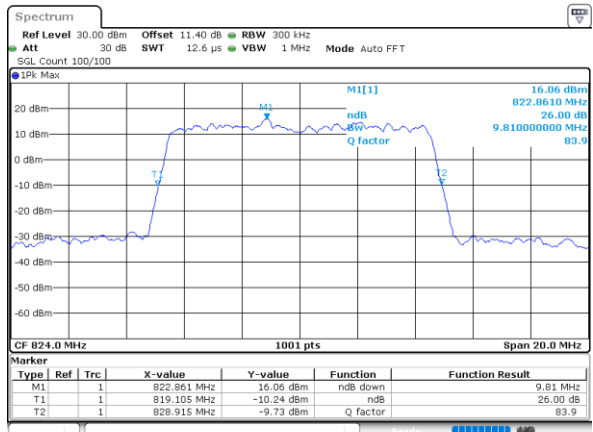
Date: 3.AUG.2023 14:21:10

824MHz / 5MHz / 64QAM



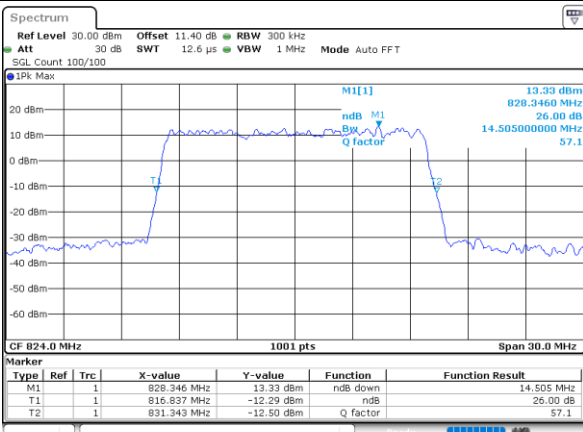
Date: 3.AUG.2023 14:24:10

824MHz / 10MHz / 64QAM



Date: 3.AUG.2023 14:27:10

824MHz / 15MHz / 64QAM



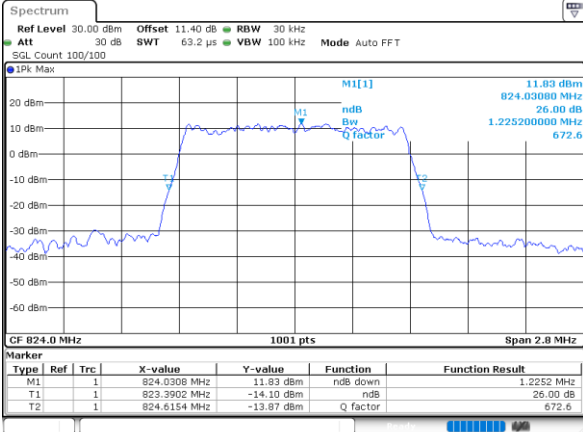
Date: 3.AUG.2023 14:30:10

N/A



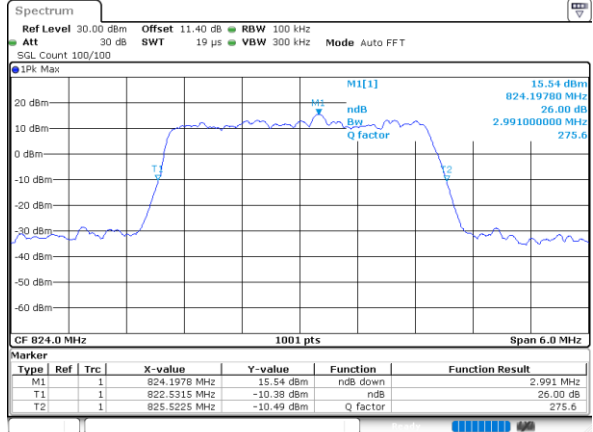
LTE Band 26

824MHz / 1.4MHz / 256QAM



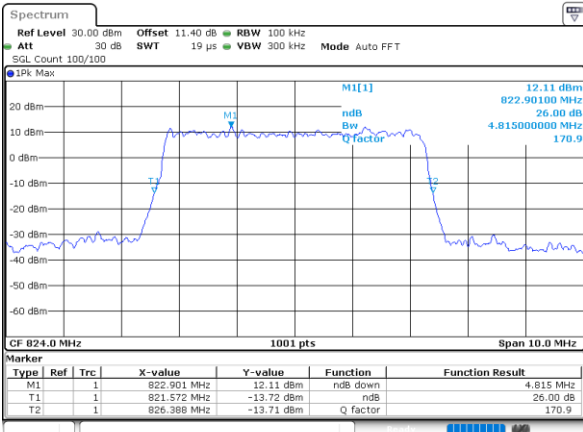
Date: 3,AUG,2023 14:18:54

824MHz / 3MHz / 256QAM



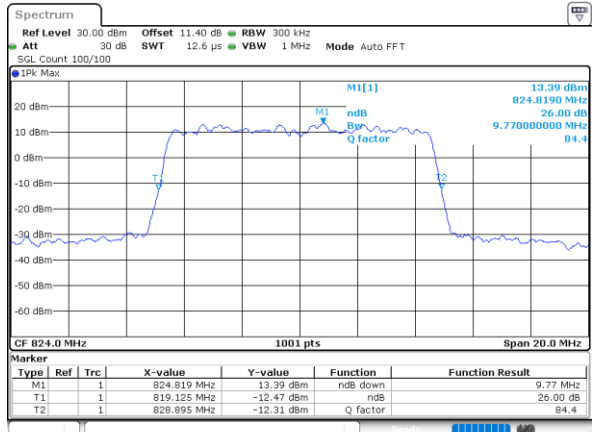
Date: 3,AUG,2023 14:21:54

824MHz / 5MHz / 256QAM



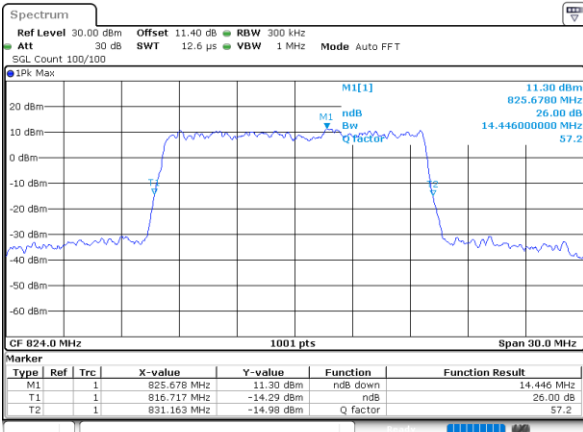
Date: 3,AUG,2023 14:24:54

824MHz / 10MHz / 256QAM



Date: 3,AUG,2023 14:27:54

824MHz / 15MHz / 256QAM



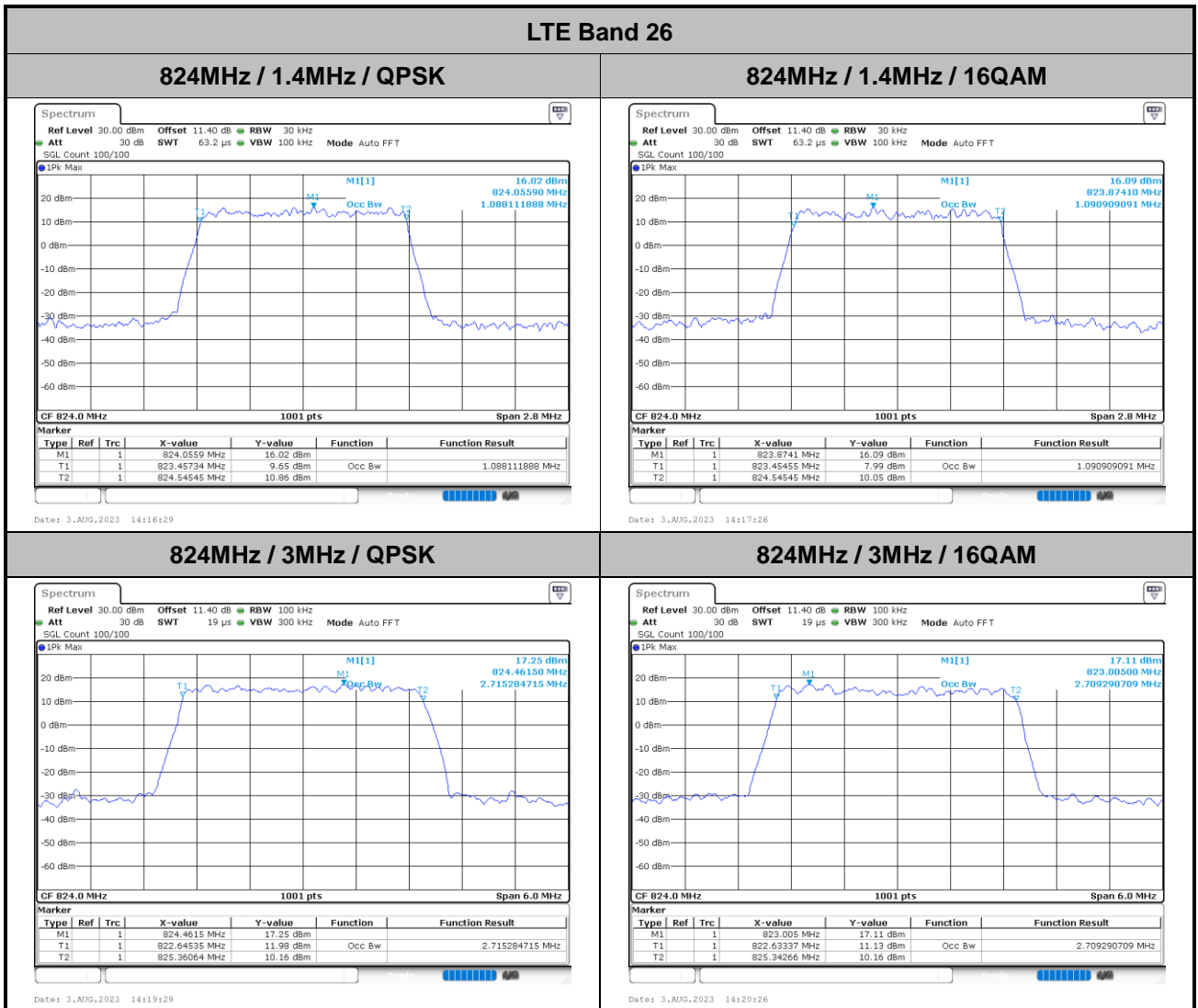
Date: 3,AUG,2023 14:30:53

N/A



# Occupied Bandwidth

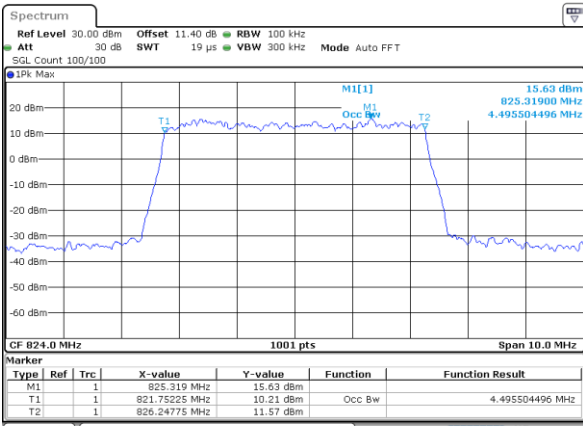
Mode		LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Middle CH	1.09	1.09	2.72	2.71	4.50	4.49	9.05	9.05	13.43	13.43	-	-	
Mode		LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Middle CH	1.09	1.09	2.72	2.73	4.51	4.48	9.11	9.01	13.43	13.49	-	-	





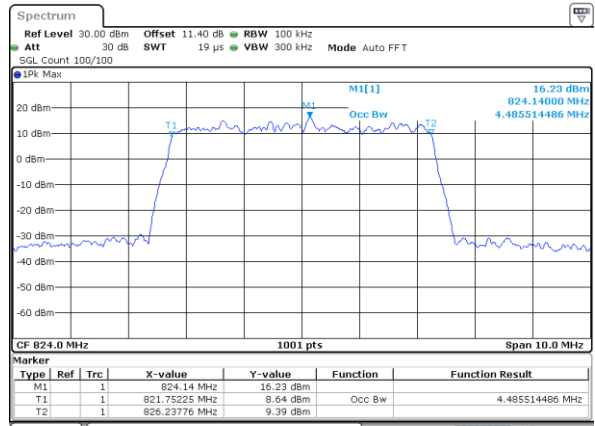
LTE Band 26

824MHz / 5MHz / QPSK



Date: 3\_AUG.2023 14:22:28

824MHz / 5MHz / 16QAM

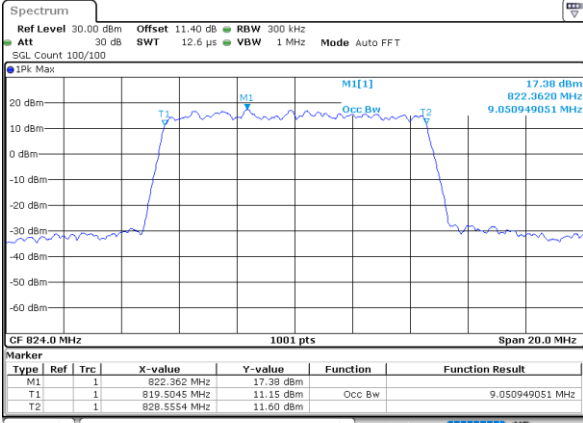


Date: 3\_AUG.2023 14:23:26



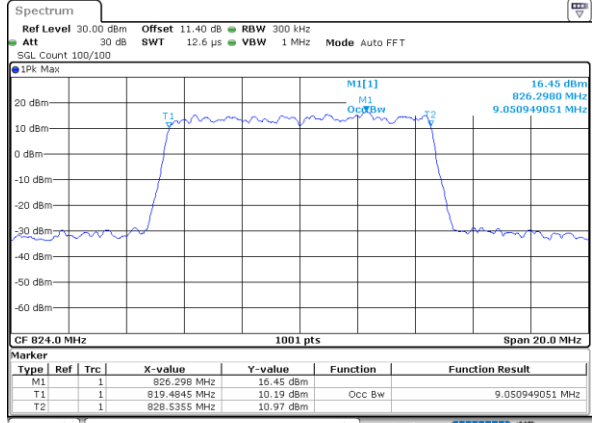
LTE Band 26

824MHz / 10MHz / QPSK



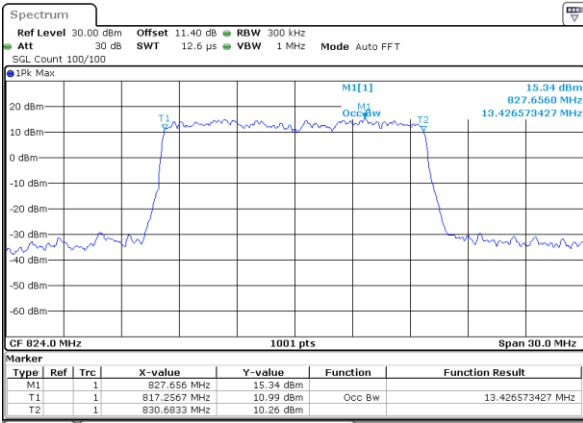
Date: 3,AUG,2023 14:25:28

824MHz / 10MHz / 16QAM



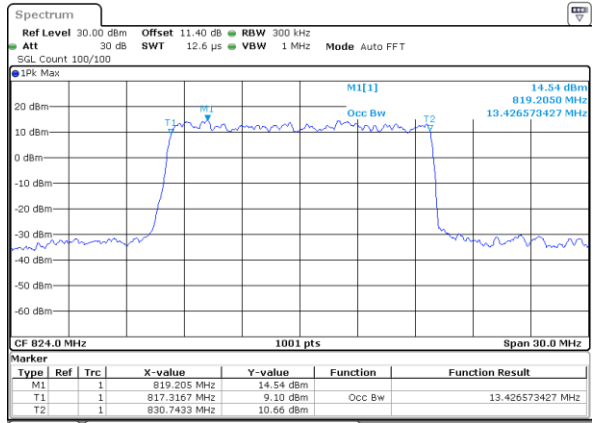
Date: 3,AUG,2023 14:26:26

824MHz / 15MHz / QPSK



Date: 3,AUG,2023 14:28:28

824MHz / 15MHz / 16QAM

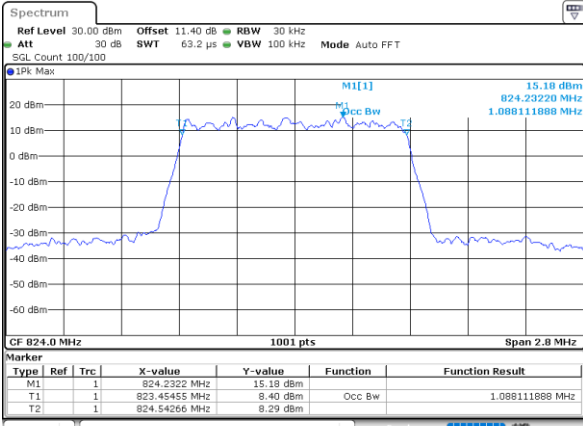


Date: 3,AUG,2023 14:29:26

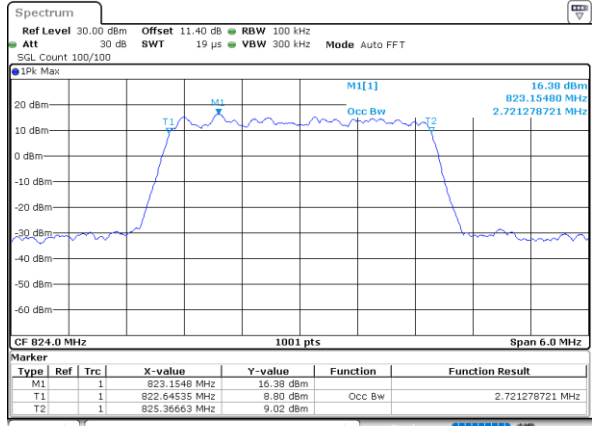


LTE Band 26

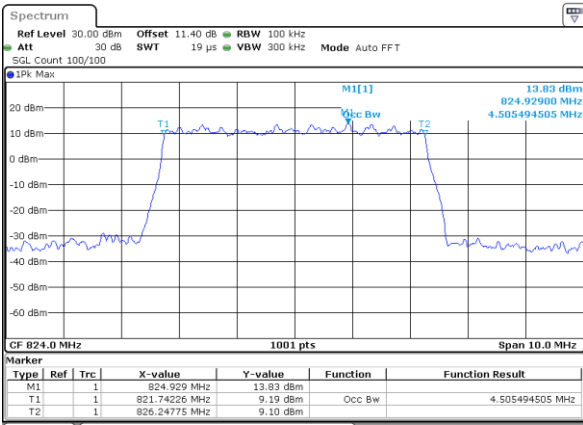
824MHz / 1.4MHz / 64QAM



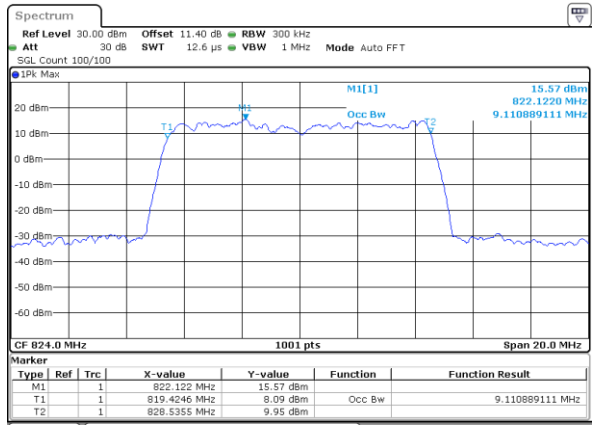
824MHz / 3MHz / 64QAM



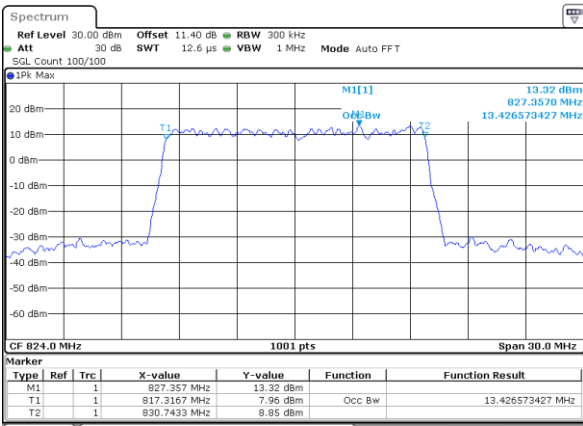
824MHz / 5MHz / 64QAM



824MHz / 10MHz / 64QAM



824MHz / 15MHz / 64QAM

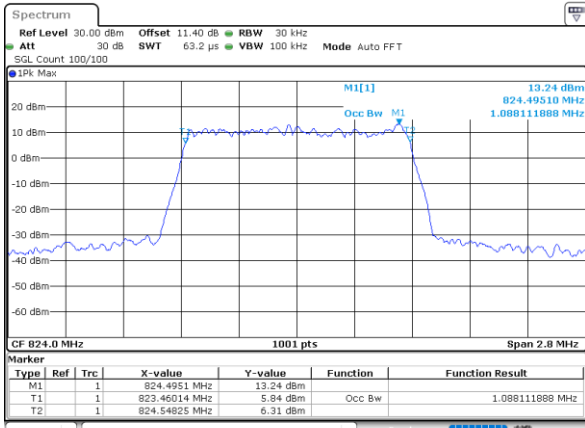


N/A

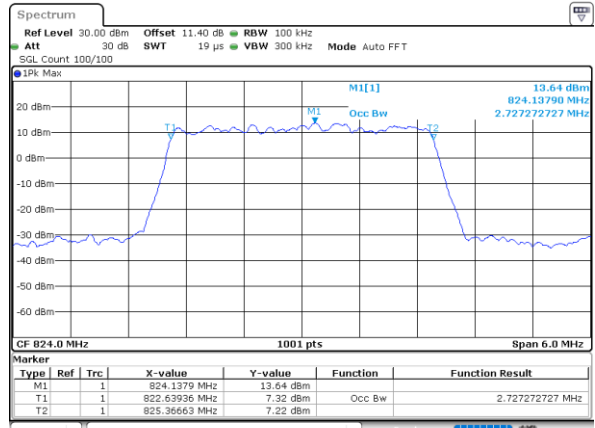


LTE Band 26

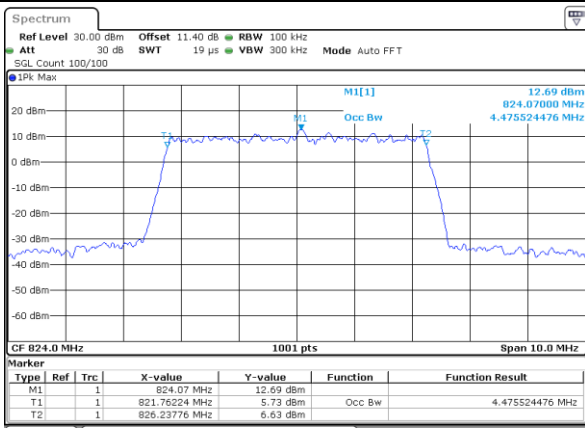
824MHz / 1.4MHz / 256QAM



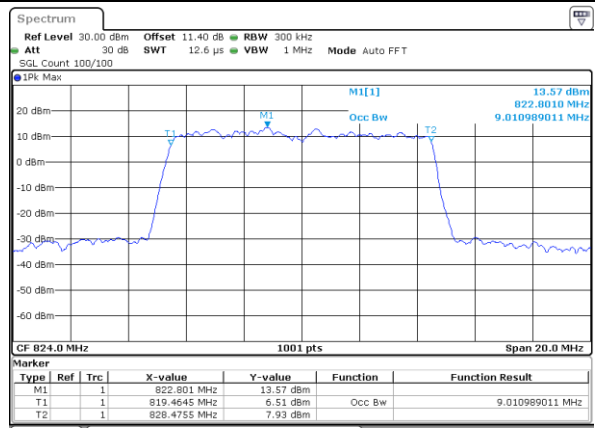
824MHz / 3MHz / 256QAM



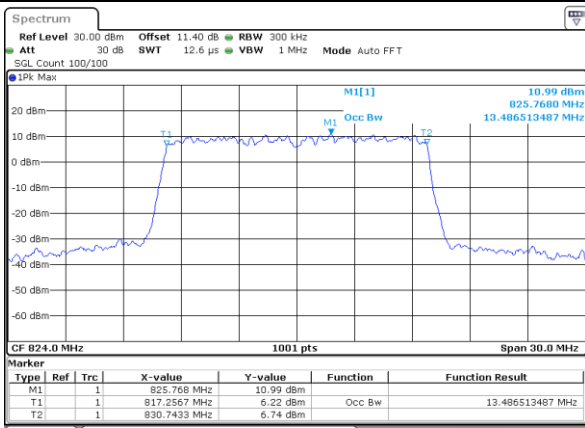
824MHz / 5MHz / 256QAM



824MHz / 10MHz / 256QAM



824MHz / 15MHz / 256QAM

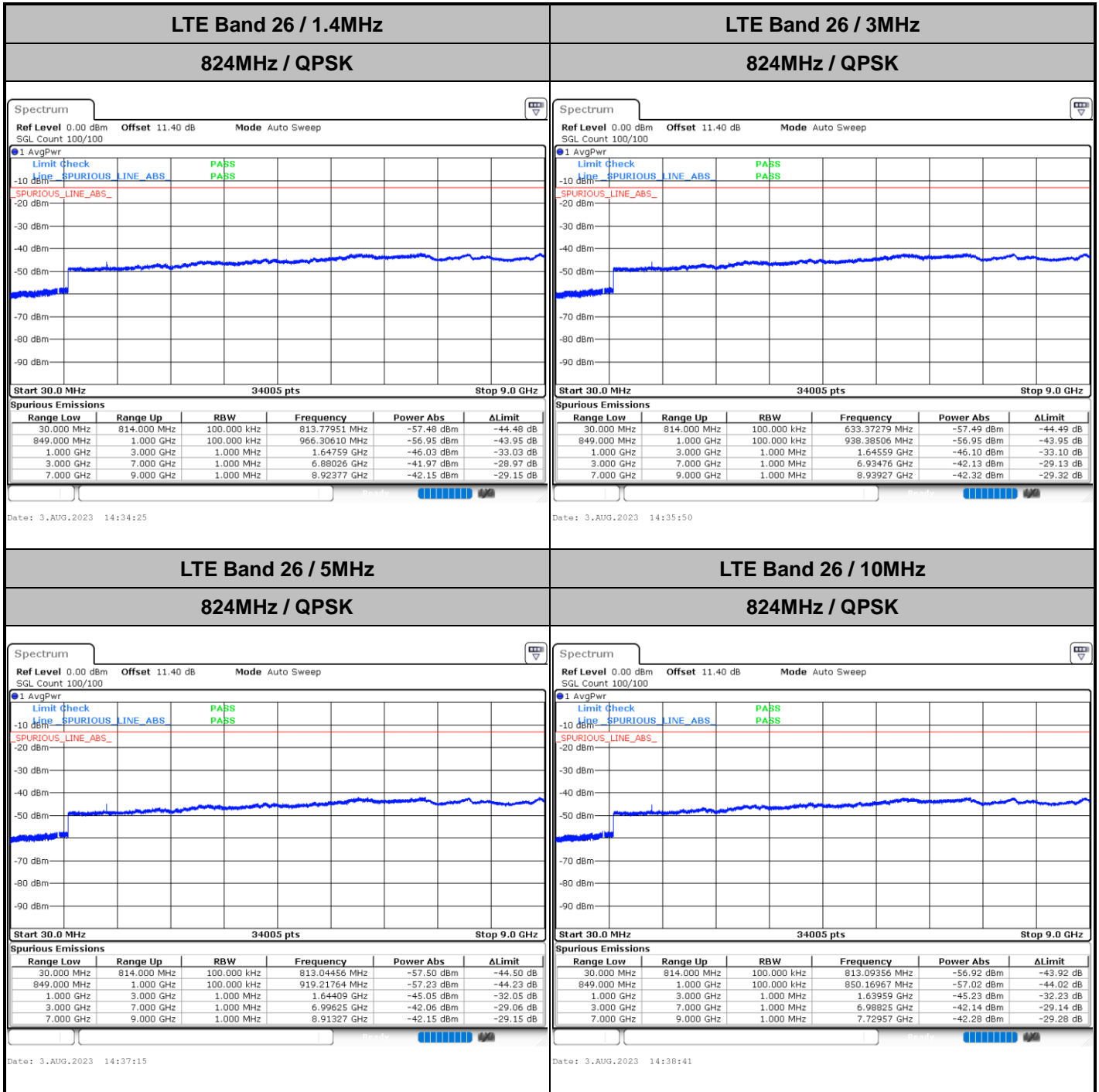


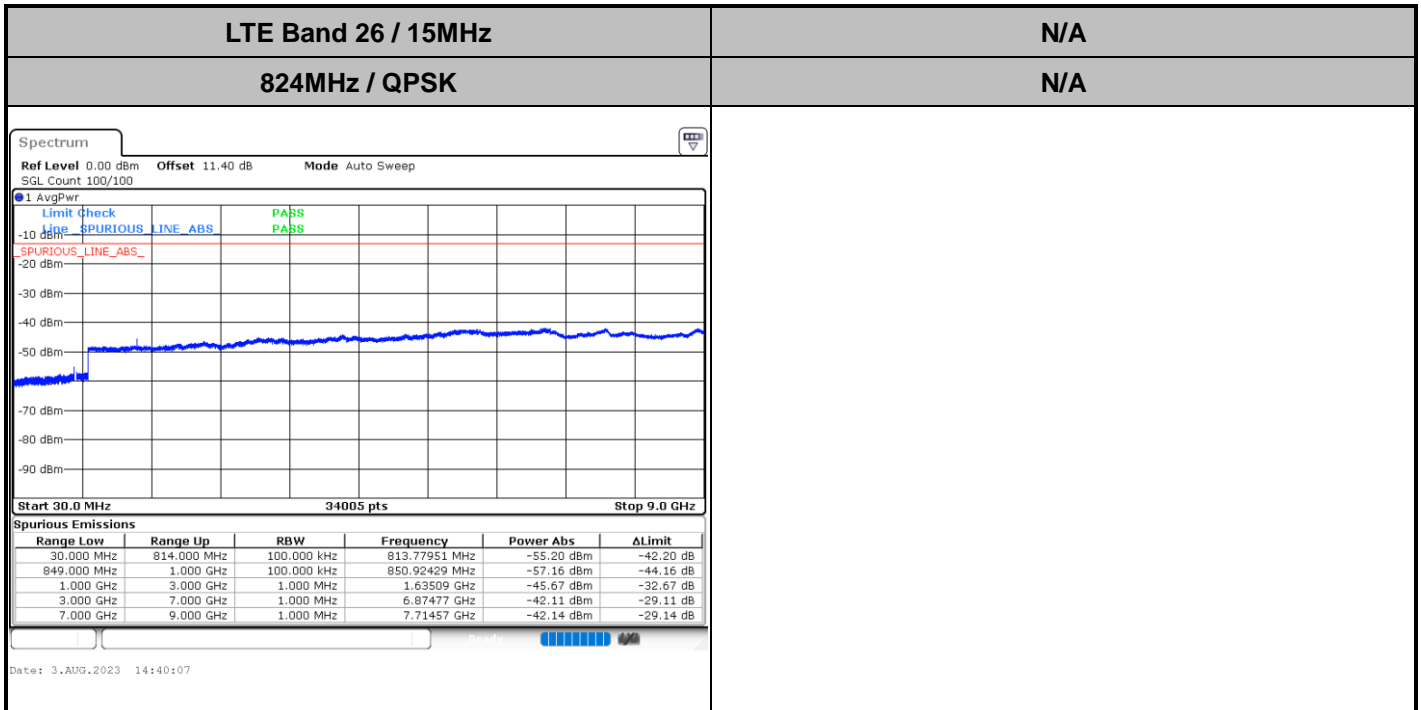
N/A





# Conducted Spurious Emission







### Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / 824MHz	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0106	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0107	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0073	
-20	Normal Voltage	0.0083	
-30	Normal Voltage	0.0089	
20	Maximum Voltage	0.0057	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0100	

**Note:**

1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
2. 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	2.5ppm.
		Deviation (ppm)	Result
50	Normal Voltage	0.0187	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0103	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0187	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0191	
-20	Normal Voltage	0.0182	
-30	Normal Voltage	0.0103	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0102	

**Note:**

- 1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.



# Appendix B. Test Results of Radiated Test

<Ant. 1>

## LTE Band 26

LTE Band 26 / 5MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1629	-61.85	-13	-48.85	-70.38	-68.19	0.60	9.09	H
	2443	-58.82	-13	-45.82	-70.51	-66.30	0.72	10.36	H
	3257	-55.14	-13	-42.14	-70.41	-62.78	0.84	10.63	H
									H
									H
									H
									H
	1629	-61.88	-13	-48.88	-70.44	-68.22	0.60	9.09	V
	2443	-58.61	-13	-45.61	-70.43	-66.09	0.72	10.36	V
	3257	-55.33	-13	-42.33	-70.58	-62.97	0.84	10.63	V
									V
									V
									V
									V



Middle	1633	-61.52	-13	-48.52	-70.04	-67.88	0.60	9.11	H
	2450	-58.68	-13	-45.68	-70.4	-66.15	0.73	10.35	H
	3267	-55.24	-13	-42.24	-70.57	-62.92	0.84	10.67	H
									H
									H
									H
									H
	1633	-61.51	-13	-48.51	-70.06	-67.87	0.60	9.11	V
	2450	-58.58	-13	-45.58	-70.45	-66.05	0.73	10.35	V
	3267	-55.62	-13	-42.62	-70.93	-63.30	0.84	10.67	V
									V
									V
									V
									V
Highest	1638	-62.00	-13	-49.00	-70.52	-68.40	0.60	9.15	H
	2458	-58.68	-13	-45.68	-70.48	-66.14	0.73	10.34	H
	3277	-54.99	-13	-41.99	-70.36	-62.71	0.84	10.71	H
									H
									H
									H
									H
	1638	-62.26	-13	-49.26	-70.81	-68.66	0.60	9.15	V
	2458	-58.65	-13	-45.65	-70.62	-66.11	0.73	10.34	V
	3277	-55.48	-13	-42.48	-70.84	-63.20	0.84	10.71	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 )	Margin ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1629	-61.69	-13	-48.69	-70.22	-68.03	0.60	9.09	H
	2443	-58.79	-13	-45.79	-70.48	-66.27	0.72	10.36	H
	3258	-55.59	-13	-42.59	-70.88	-63.23	0.84	10.63	H
									H
									H
									H
									H
	1629	-62.19	-13	-49.19	-70.75	-68.53	0.60	9.09	V
	2443	-58.64	-13	-45.64	-70.46	-66.12	0.72	10.36	V
	3258	-55.46	-13	-42.46	-70.73	-63.10	0.84	10.63	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 )	Margin ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1629	-61.83	-13	-48.83	-70.36	-68.17	0.60	9.09	H
	2444	-59.09	-13	-46.09	-70.78	-66.57	0.72	10.36	H
	3259	-55.69	-13	-42.69	-70.98	-63.34	0.84	10.64	H
									H
									H
									H
									H
	1629	-61.92	-13	-48.92	-70.48	-68.26	0.60	9.09	V
	2444	-58.41	-13	-45.41	-70.24	-65.89	0.72	10.36	V
	3259	-55.76	-13	-42.76	-71.03	-63.41	0.84	10.64	V
									V
									V
									V
									V

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





LTE Band 26 / 15MHz 824MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Margin ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1634	-61.58	-13	-48.58	-70.1	-67.95	0.60	9.12	H
	2452	-58.35	-13	-45.35	-70.1	-65.82	0.73	10.35	H
	3269	-54.50	-13	-41.50	-69.84	-62.19	0.84	10.68	H
									H
									H
									H
									H
	1634	-61.72	-13	-48.72	-70.27	-68.09	0.60	9.12	V
	2452	-57.77	-13	-44.77	-69.67	-65.24	0.73	10.35	V
	3269	-55.43	-13	-42.43	-70.76	-63.12	0.84	10.68	V
									V
									V
									V
									V

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