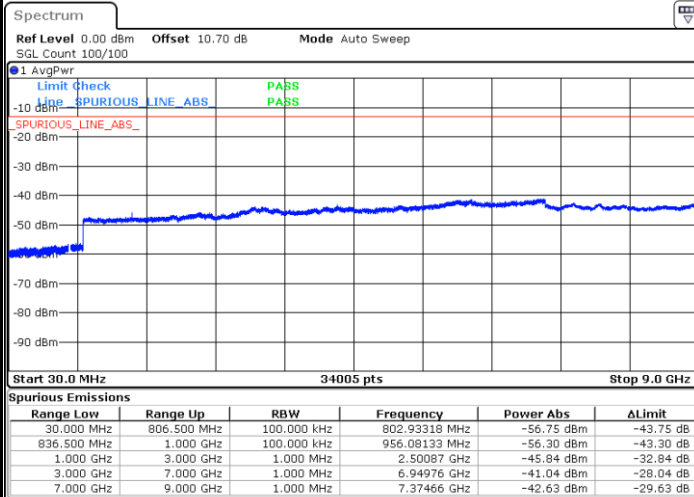
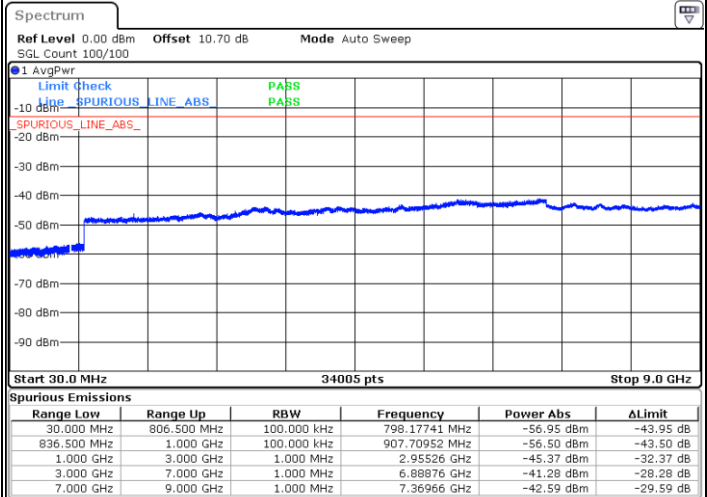
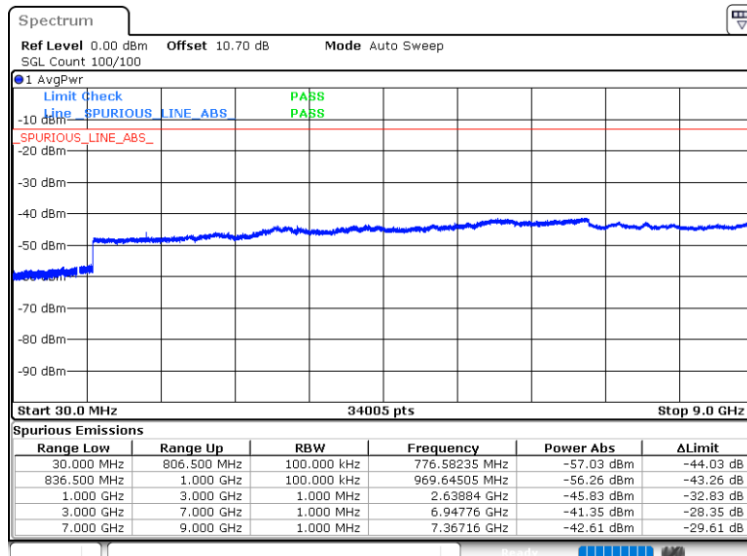


**Emission masks – Out of band emissions****LTE Band 26 / 1.4MHz****Lowest Channel / QPSK**

Date: 25.JUL.2022 21:01:11

Middle Channel / QPSK

Date: 25.JUL.2022 21:04:02

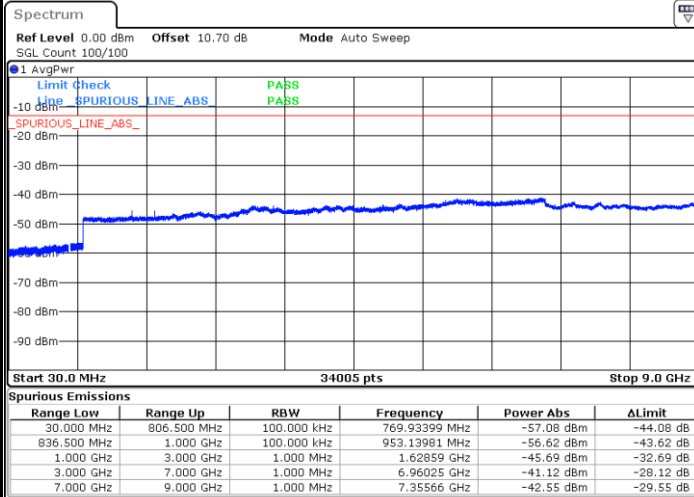
Highest Channel / QPSK

Date: 25.JUL.2022 21:05:16



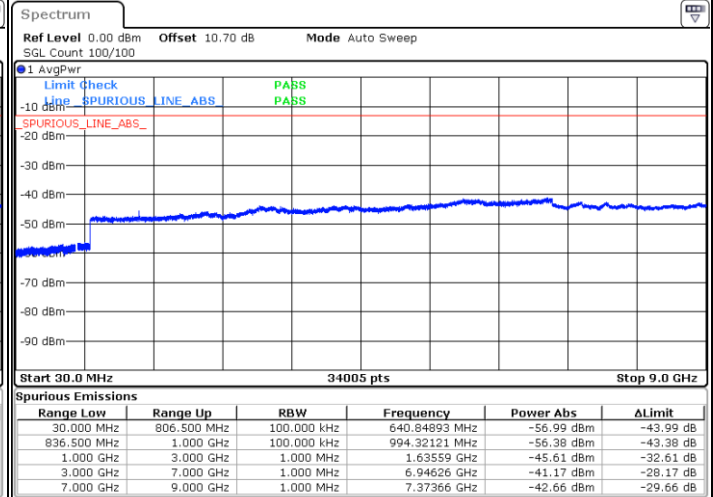
LTE Band 26 / 3MHz

Lowest Channel / QPSK



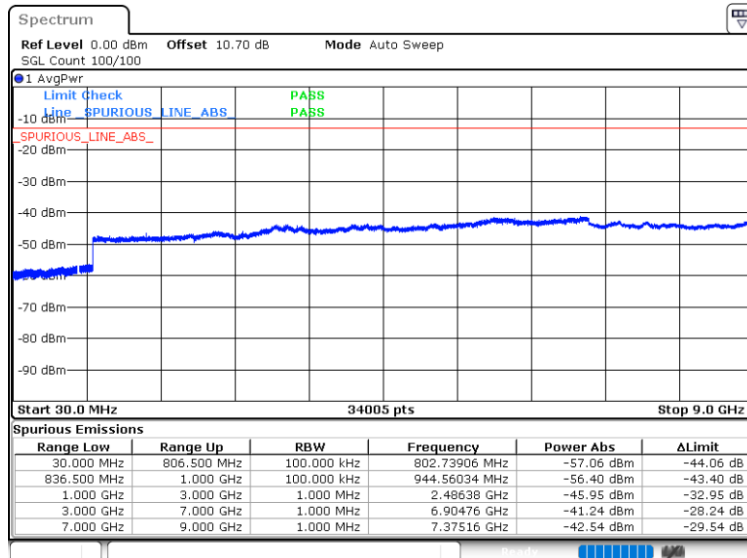
Date: 25.JUL.2022 21:18:02

Middle Channel / QPSK



Date: 25.JUL.2022 21:21:41

Highest Channel / QPSK

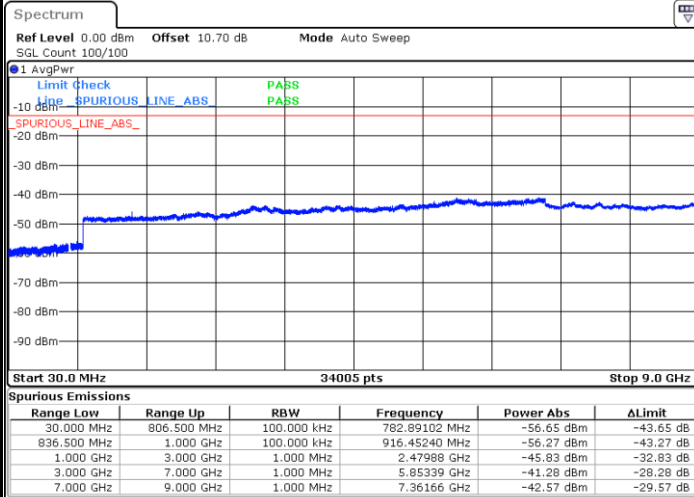


Date: 25.JUL.2022 21:22:56



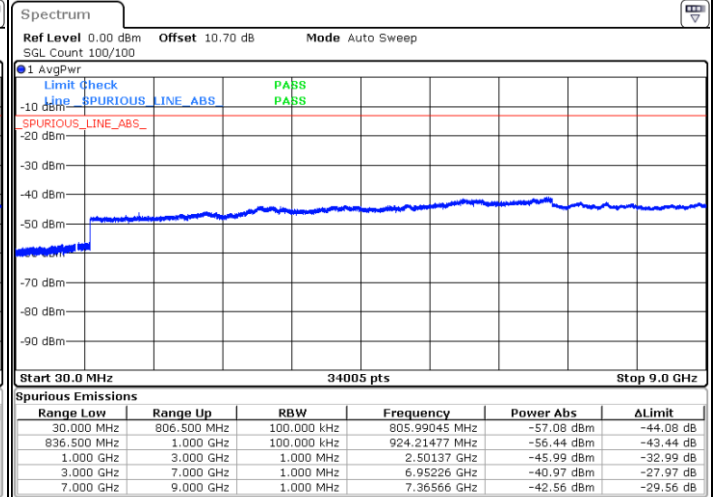
LTE Band 26 / 5MHz

Lowest Channel / QPSK



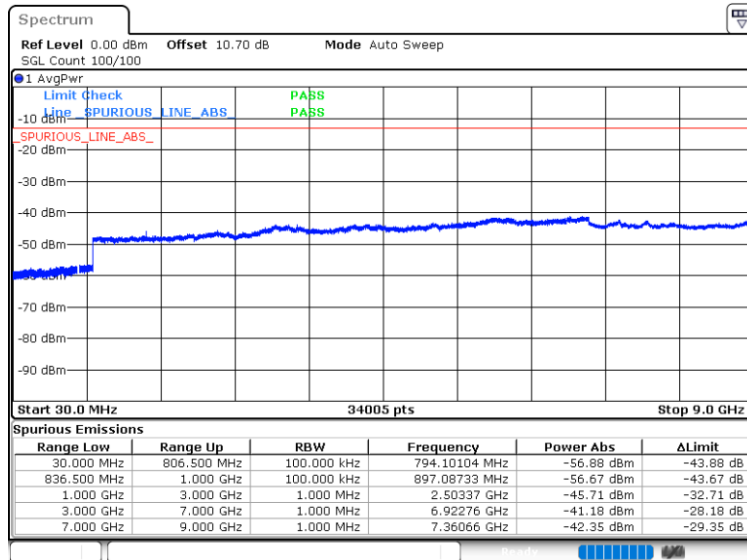
Date: 25.JUL.2022 21:32:42

Middle Channel / QPSK



Date: 25.JUL.2022 21:35:34

Highest Channel / QPSK

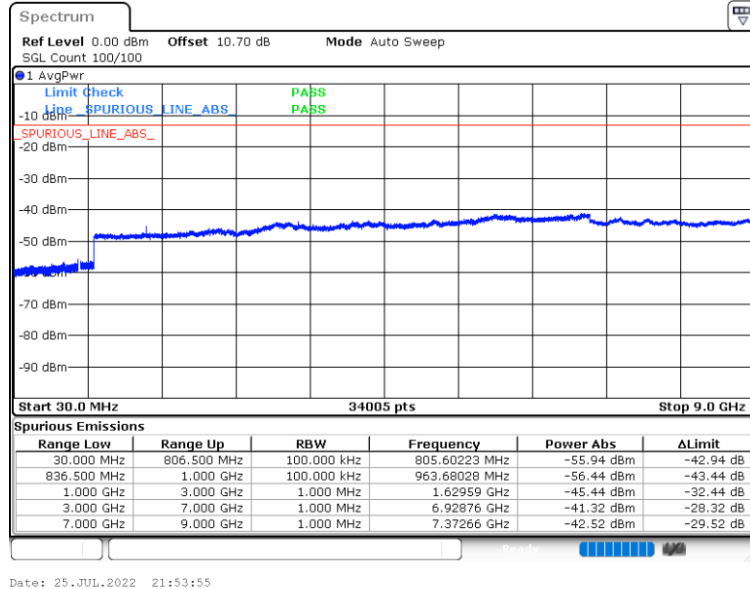


Date: 25.JUL.2022 21:36:48



LTE Band 26 / 10MHz

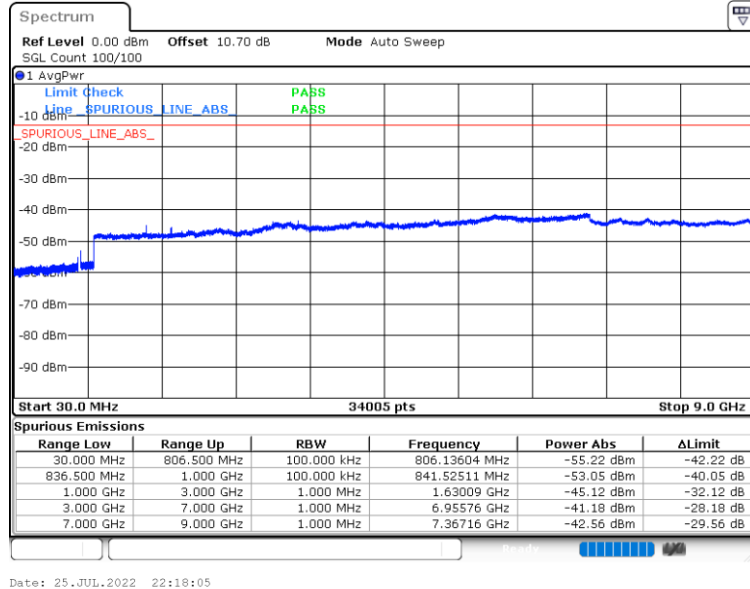
Middle Channel / QPSK





LTE Band 26 / 15MHz

Middle Channel / QPSK



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	0.0057	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0133	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0137	
-10	Normal Voltage	0.0158	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0111	
20	Maximum Voltage	0.0110	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0122	

Note:

1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.1 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	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0113	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0073	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0082	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0096	
-30	Normal Voltage	0.0055	
20	Maximum Voltage	0.0114	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0034	

Note:

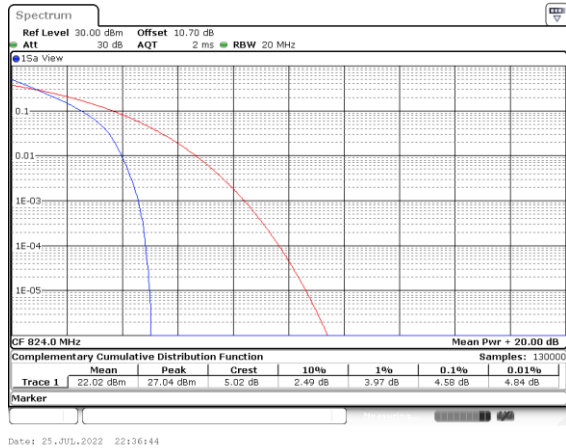
1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.1 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**LTE Band 26_824 MHz****Peak-to-Average Ratio**

Mode	LTE Band 26 / 15MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.77	6.43	PASS

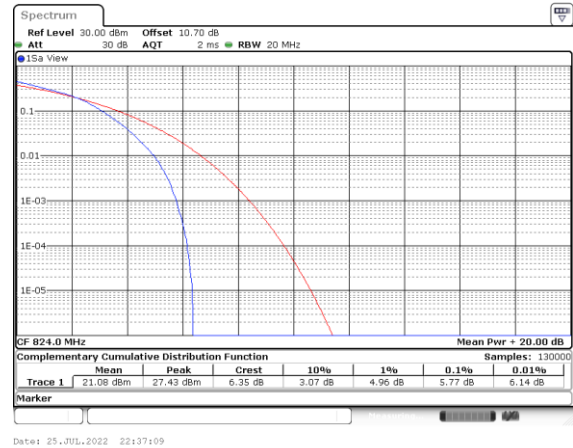
LTE Band 26 / 15MHz / QPSK

Middle Channel / Full RB



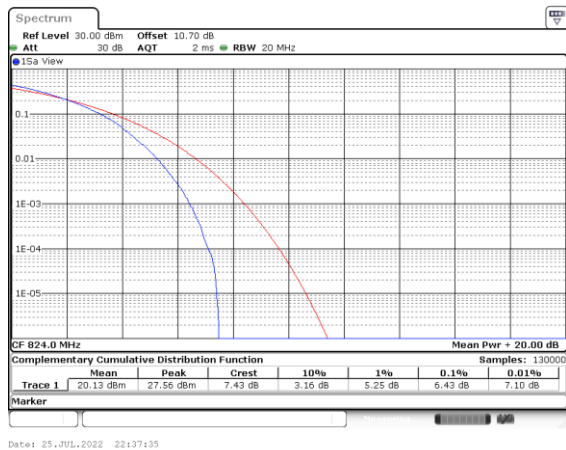
LTE Band 26 / 15MHz / 16QAM

Middle Channel / Full RB



LTE Band 26 / 15MHz / 64QAM

Middle Channel / Full RB



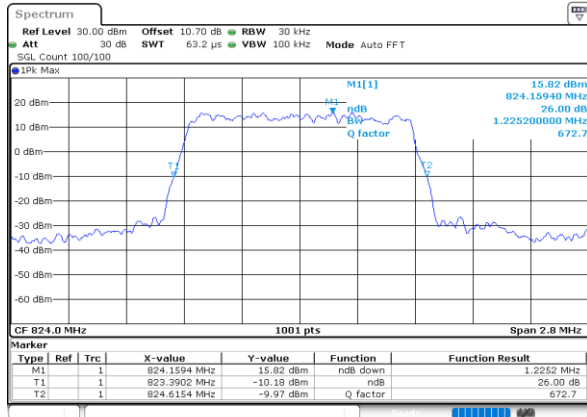
**26dB Bandwidth**

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	1.23	1.23	3.02	3.03	4.81	4.88	9.87	9.65	14.27	14.27	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.23	-	3.01	-	4.90	-	9.89	-	14.39	-	-	-

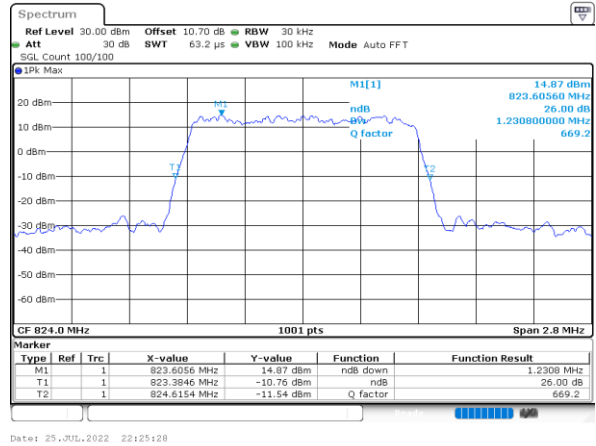


LTE Band 26

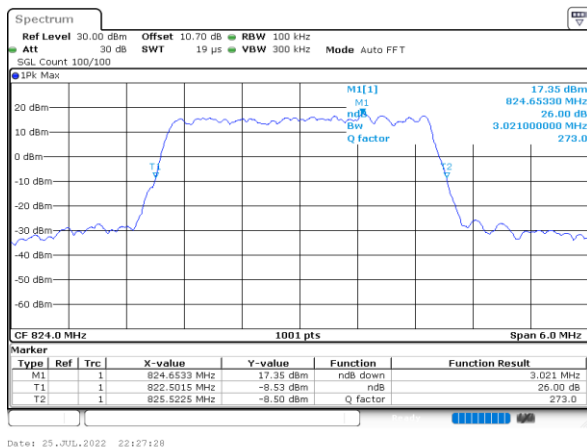
Middle Channel / 1.4MHz / QPSK



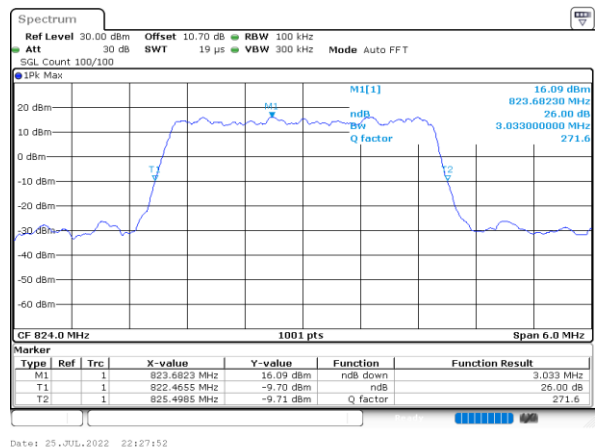
Middle Channel / 1.4MHz / 16QAM



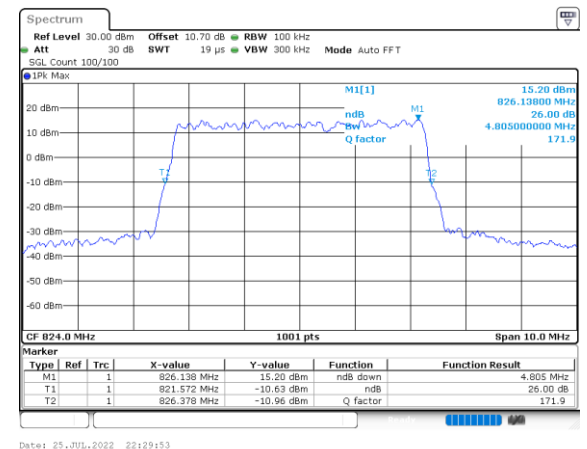
Middle Channel / 3MHz / QPSK



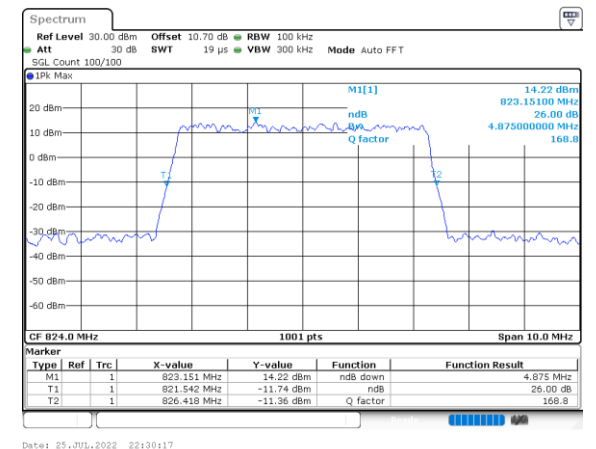
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



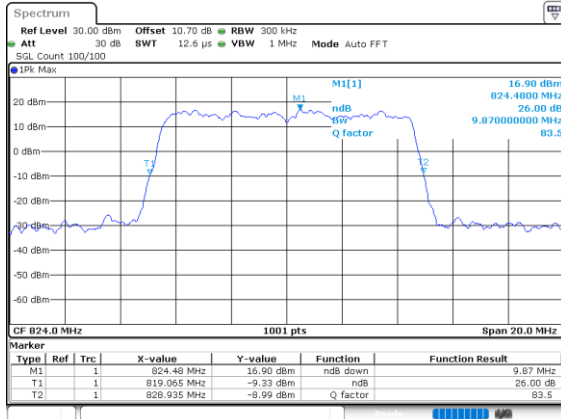
Middle Channel / 5MHz / 16QAM



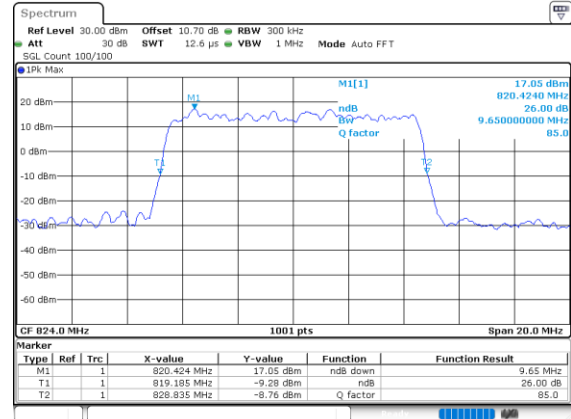


LTE Band 26

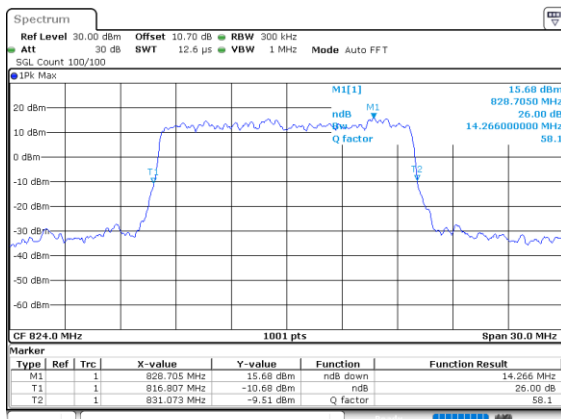
Middle Channel / 10MHz / QPSK



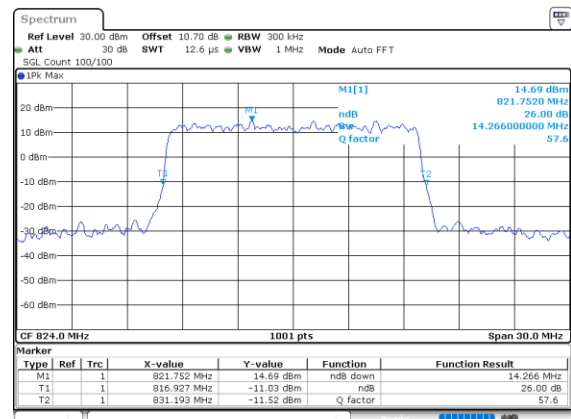
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



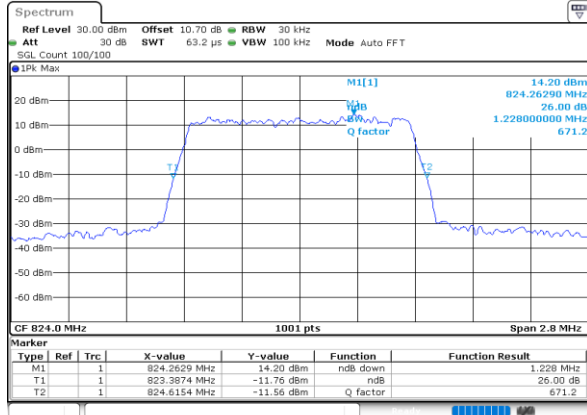
Middle Channel / 15MHz / 16QAM





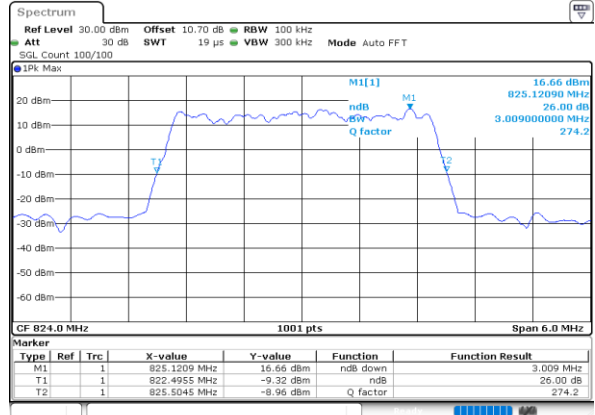
LTE Band 26

Middle Channel / 1.4MHz / 64QAM



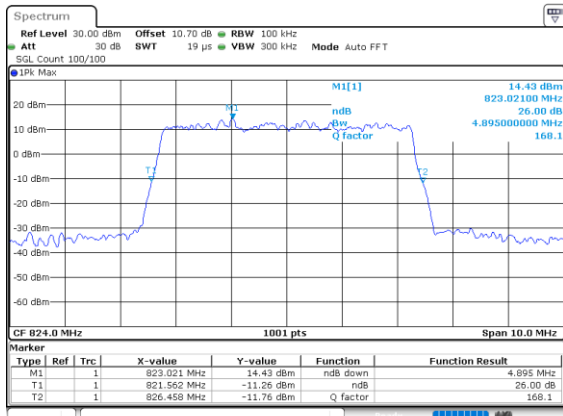
Date: 25.JUL.2022 22:26:40

Middle Channel / 3MHz / 64QAM



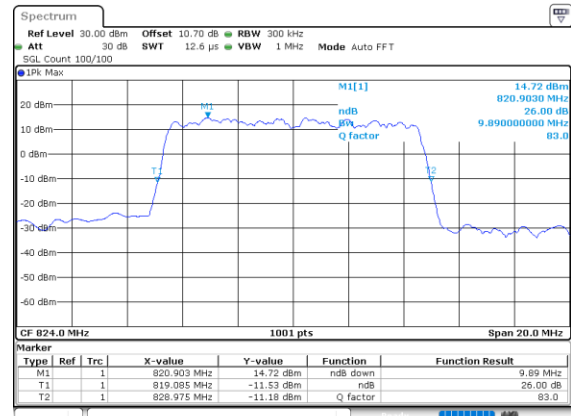
Date: 25.JUL.2022 22:29:04

Middle Channel / 5MHz / 64QAM



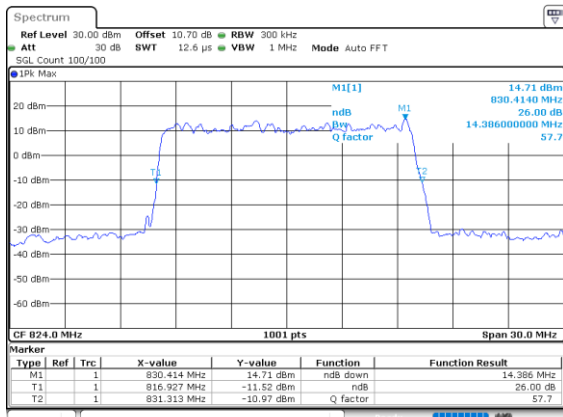
Date: 25.JUL.2022 22:31:29

Middle Channel / 10MHz / 64QAM



Date: 25.JUL.2022 22:33:54

Middle Channel / 15MHz / 64QAM



Date: 25.JUL.2022 22:36:19

N/A

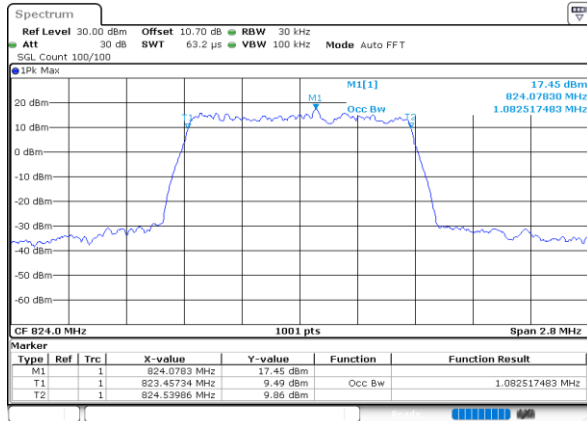
**Occupied Bandwidth**

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	1.08	1.09	2.72	2.73	4.47	4.51	9.03	9.07	13.52	13.46	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.10	-	2.73	-	4.54	-	8.99	-	13.43	-	-	-

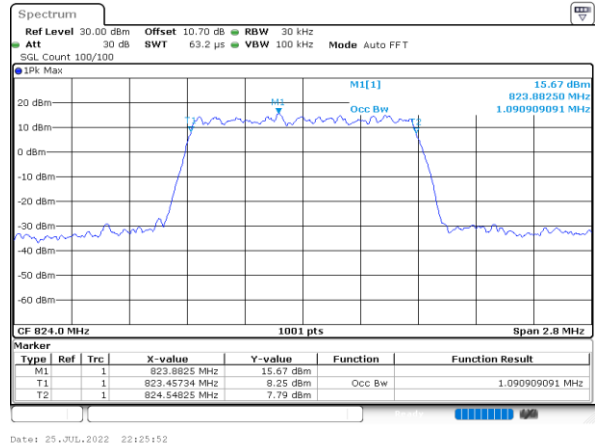


LTE Band 26

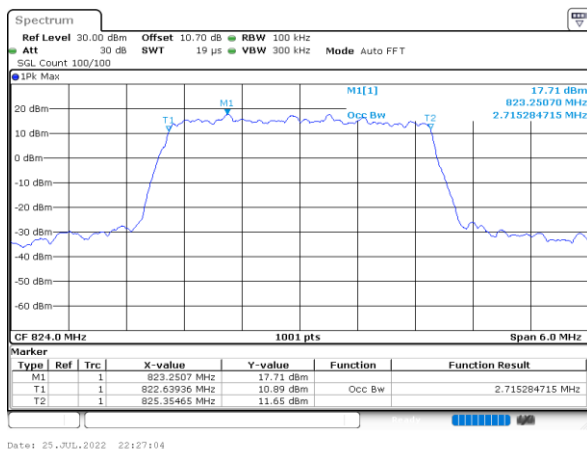
Middle Channel / 1.4MHz / QPSK



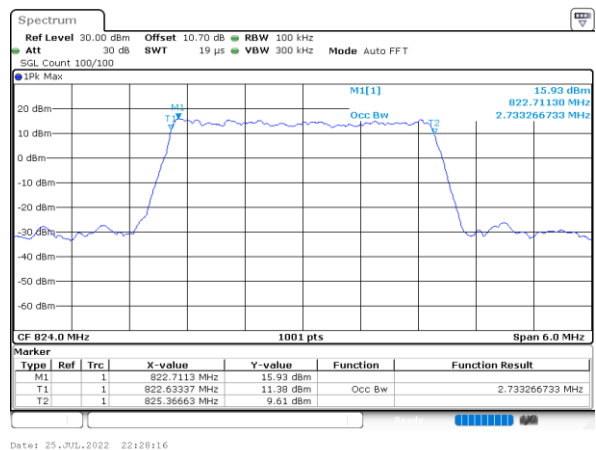
Middle Channel / 1.4MHz / 16QAM



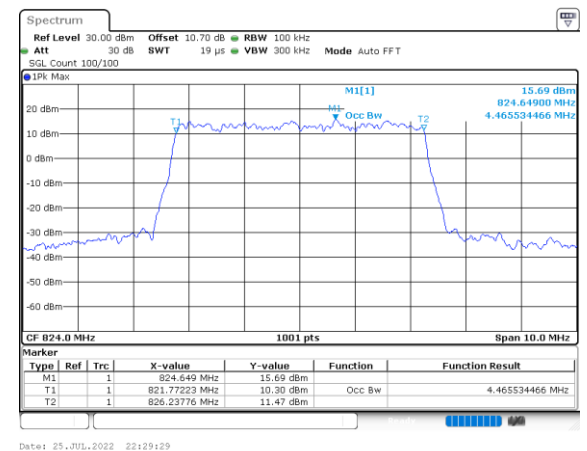
Middle Channel / 3MHz / QPSK



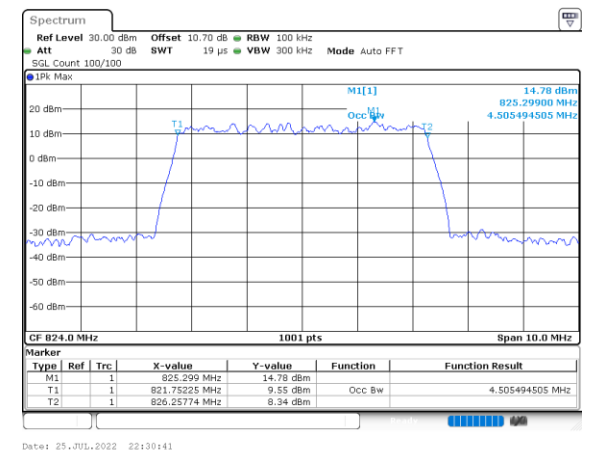
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



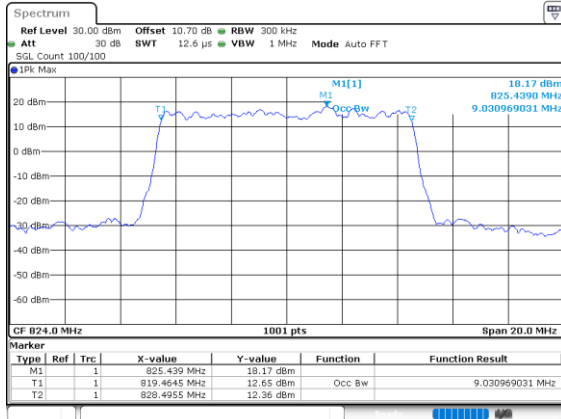
Middle Channel / 5MHz / 16QAM



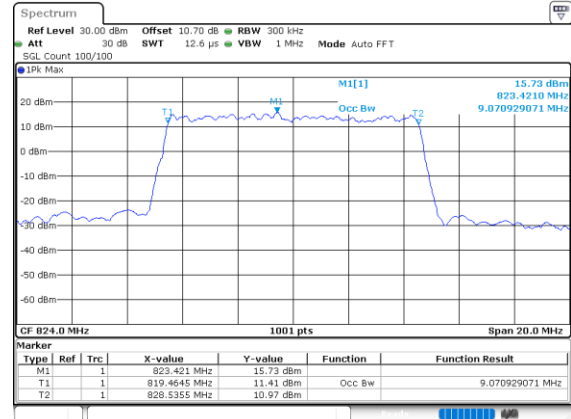


LTE Band 26

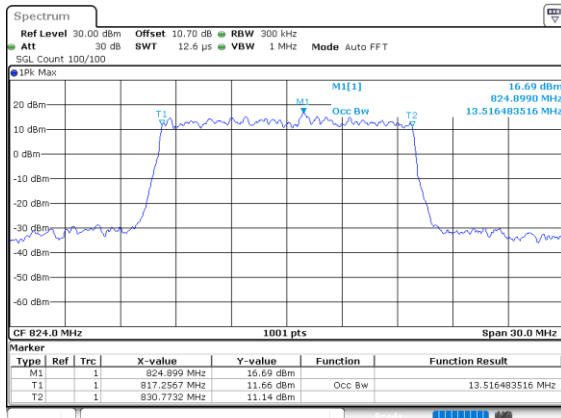
Middle Channel / 10MHz / QPSK



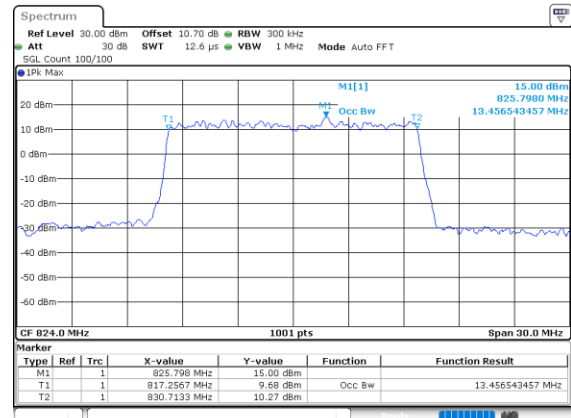
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



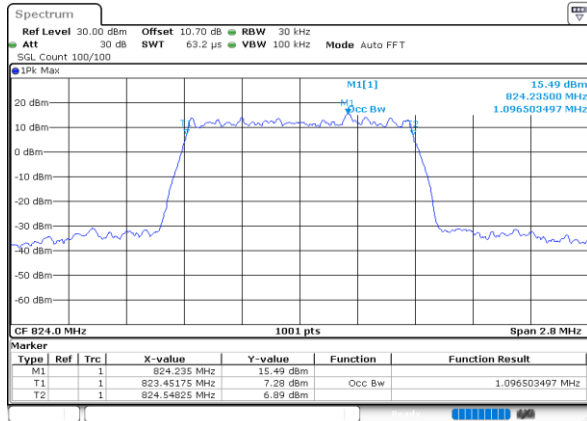
Middle Channel / 15MHz / 16QAM



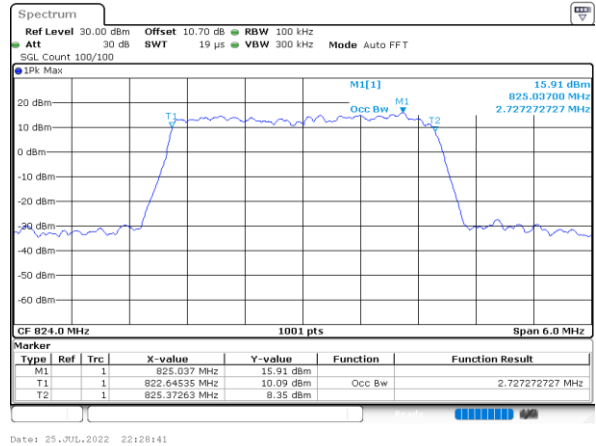


LTE Band 26

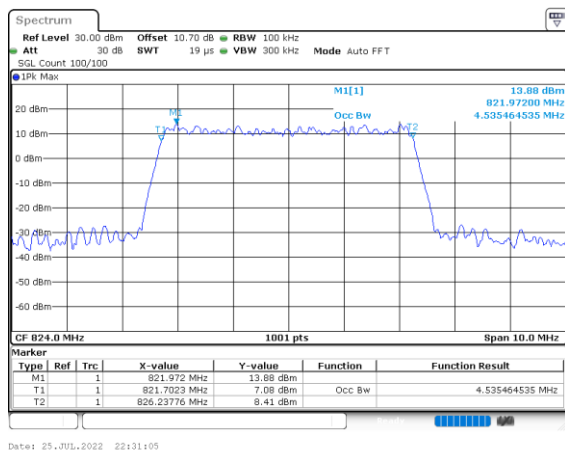
Middle Channel / 1.4MHz / 64QAM



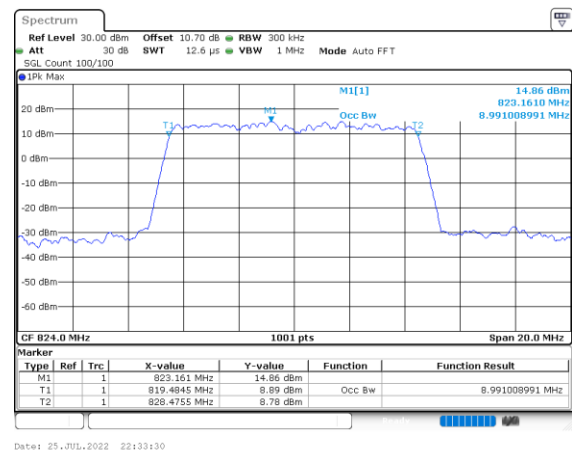
Middle Channel / 3MHz / 64QAM



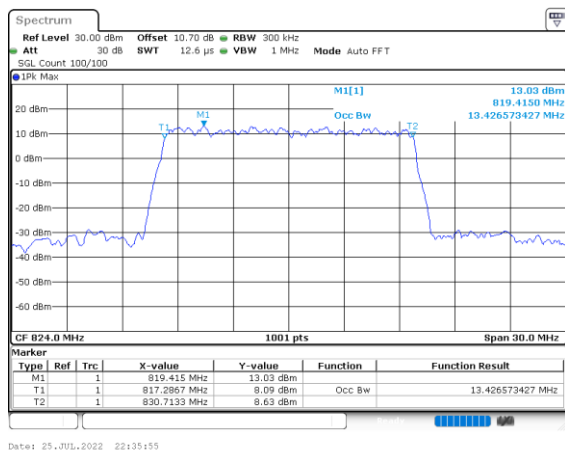
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



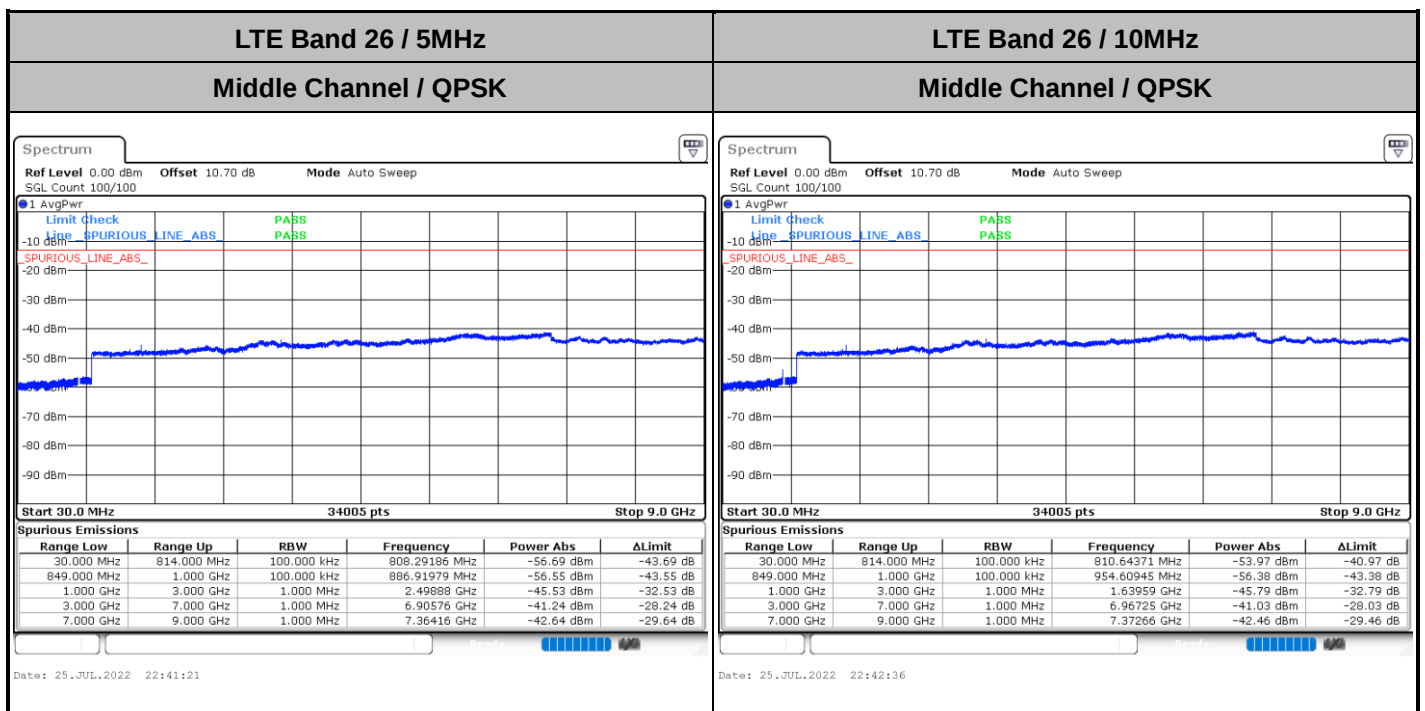
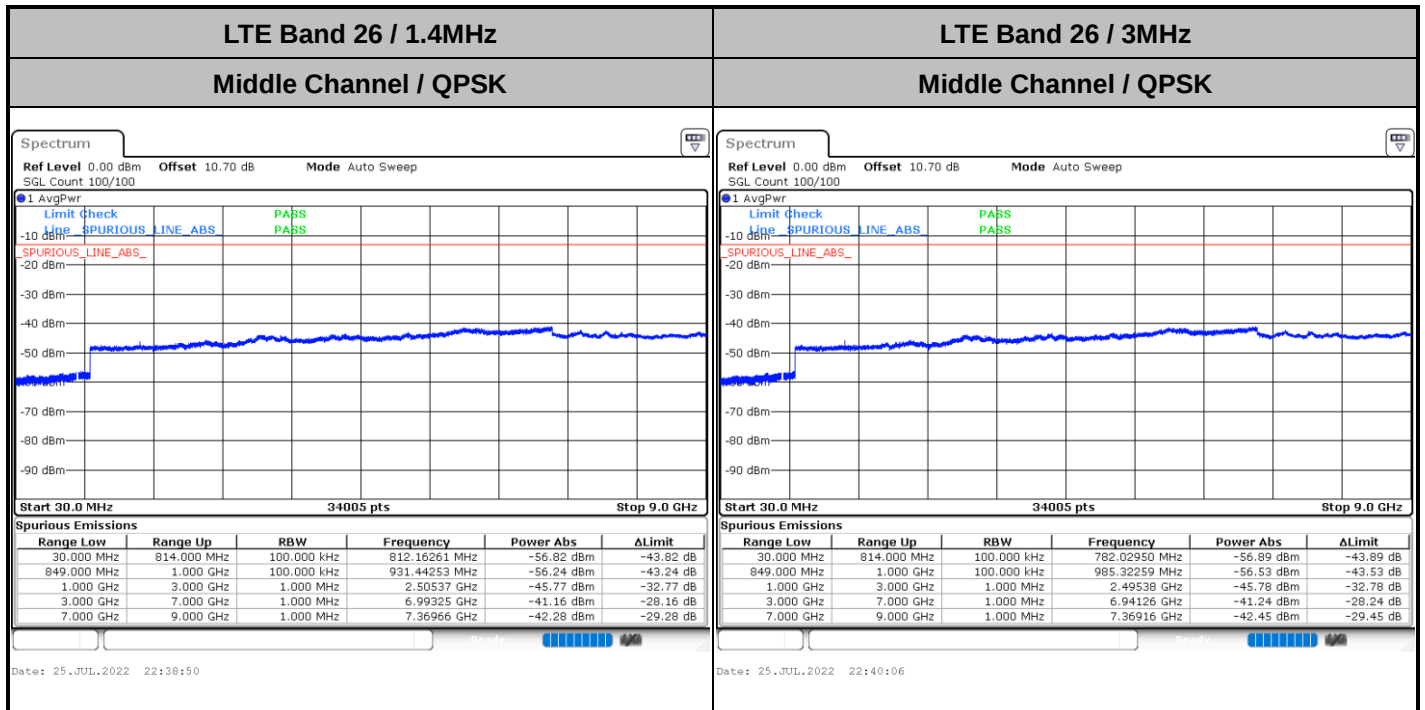
Middle Channel / 15MHz / 64QAM

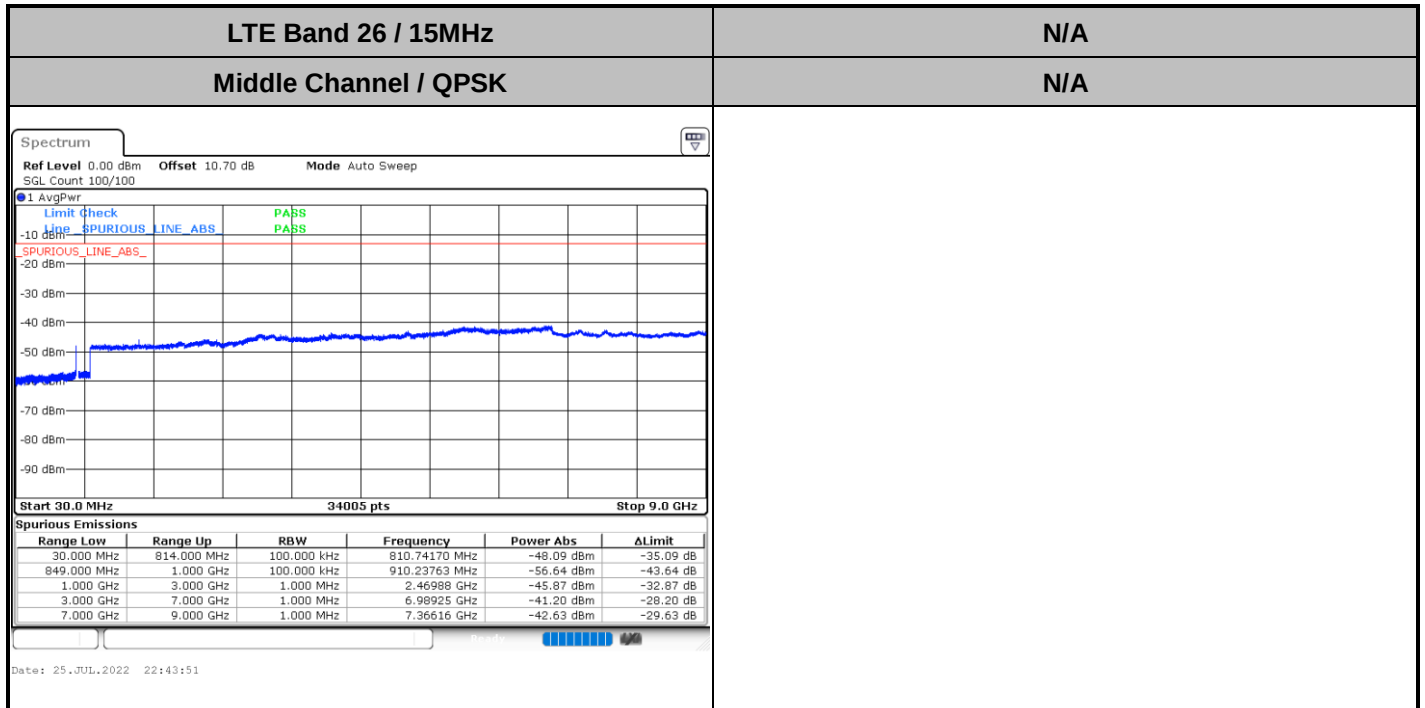


N/A



Conducted Spurious Emission







Appendix B. Test Results of Radiated Test

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	-50.78	-13	-37.78	-66.34	-51.61	6.32	9.30	H
	2440.2	-19.86	-13	-6.86	-36.55	-20.05	7.86	10.20	H
	3257	-56.83	-13	-43.83	-76.3	-57.42	9.07	11.81	H
	4070.4	-41.01	-13	-28.01	-62.35	-40.85	10.61	12.60	H
	4889.4	-54.00	-13	-41.00	-75.13	-52.41	11.98	12.54	H
									H
	1629	-52.71	-13	-39.71	-68.27	-53.54	6.32	9.30	V
	2440.2	-23.91	-13	-10.91	-40.45	-24.10	7.86	10.20	V
	3257	-56.77	-13	-43.77	-76.37	-57.36	9.07	11.81	V
	4070.4	-45.85	-13	-32.85	-67.17	-45.69	10.61	12.60	V
	4889.4	-51.51	-13	-38.51	-73.13	-49.92	11.98	12.54	V
									V
Middle	1636.8	-50.08	-13	-37.08	-65.91	-50.93	6.33	9.33	H
	2448	-19.64	-13	-6.64	-37.1	-19.83	7.90	10.24	H
	3267	-56.46	-13	-43.46	-76.35	-57.09	9.09	11.87	H
	4086	-41.33	-13	-28.33	-63.85	-41.19	10.59	12.60	H
	4905	-51.87	-13	-38.87	-75.67	-50.30	11.97	12.55	H
									H
									H
	1636.8	-50.99	-13	-37.99	-66.82	-51.84	6.33	9.33	V
	2448	-25.05	-13	-12.05	-42.37	-25.24	7.90	10.24	V
	3267	-55.96	-13	-42.96	-75.97	-56.59	9.09	11.87	V
	4086	-45.88	-13	-32.88	-68.37	-45.74	10.59	12.60	V
	4905	-48.86	-13	-35.86	-73.13	-47.29	11.97	12.55	V
									V
									V



Highest	1636.8	-53.24	-13	-40.24	-69.07	-54.09	6.33	9.33	H
	2455.8	-20.10	-13	-7.10	-37.55	-20.29	7.94	10.28	H
	3277	-56.55	-13	-43.55	-76.45	-57.21	9.11	11.92	H
	4093.8	-42.98	-13	-29.98	-65.51	-42.84	10.59	12.60	H
	4912.8	-51.70	-13	-38.70	-75.54	-50.14	11.97	12.56	H
									H
	1636.8	-54.38	-13	-41.38	-70.21	-55.23	6.33	9.33	V
	2455.8	-26.72	-13	-13.72	-44.02	-26.91	7.94	10.28	V
	3277	-56.23	-13	-43.23	-76.24	-56.89	9.11	11.92	V
	4093.8	-48.01	-13	-35.01	-70.51	-47.87	10.59	12.60	V
	4912.8	-49.83	-13	-36.83	-74.13	-48.27	11.97	12.56	V
									V

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