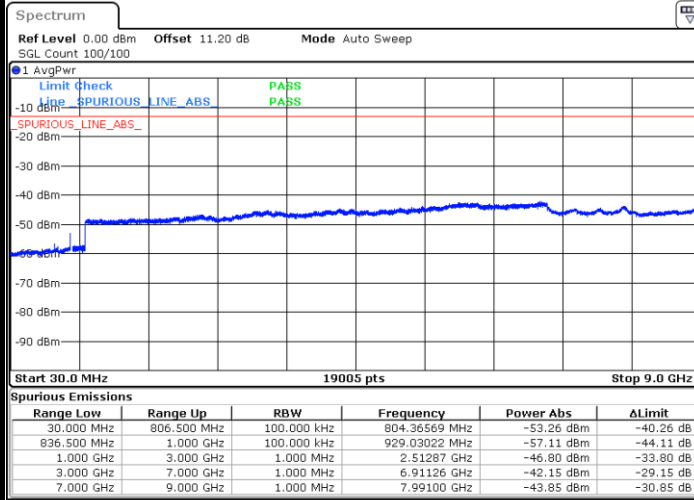




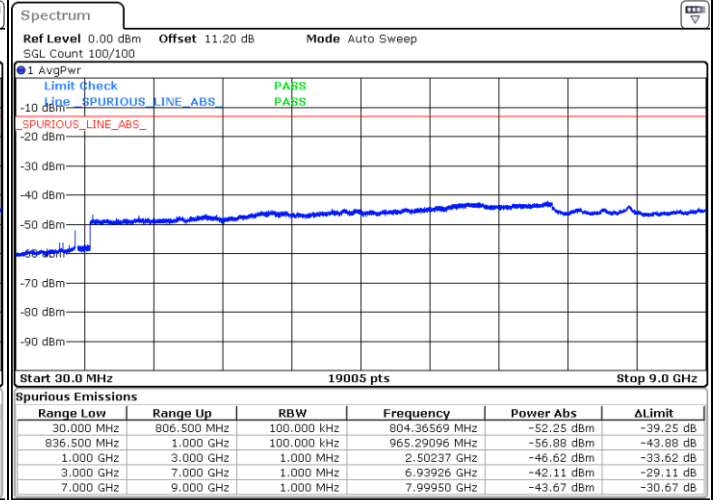
LTE Band 26 / 5MHz

Lowest Channel / QPSK



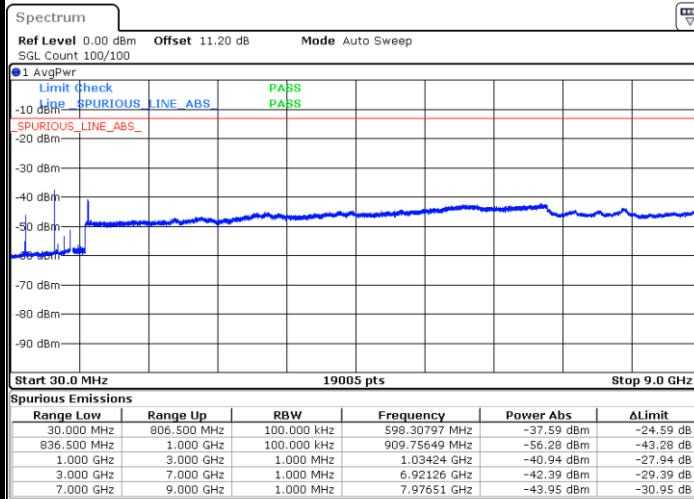
Date: 9.JUL.2020 17:07:44

Lowest Channel / 16QAM



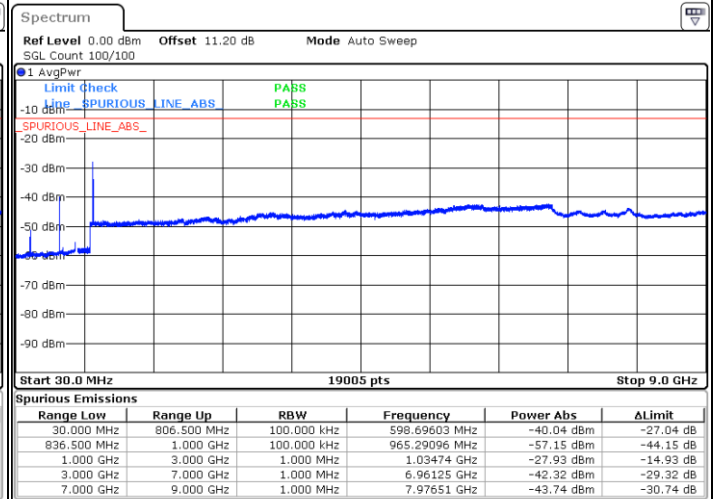
Date: 9.JUL.2020 17:05:58

Middle Channel / QPSK



Date: 9.JUL.2020 16:52:39

Middle Channel / 16QAM

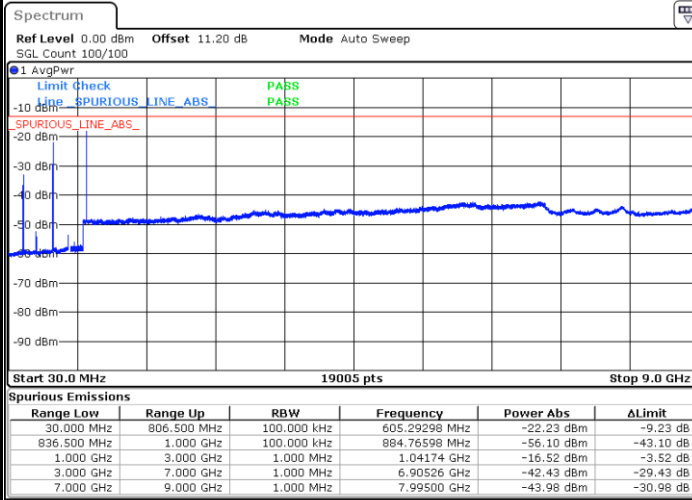


Date: 9.JUL.2020 16:51:03



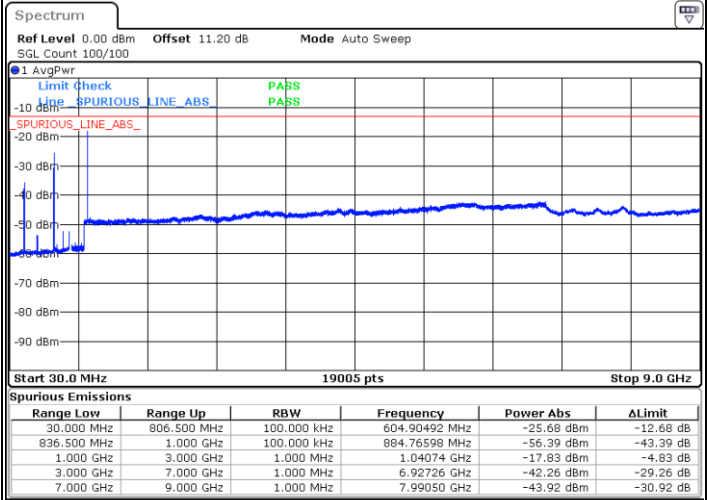
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 9 JUL 2020 17:03:31

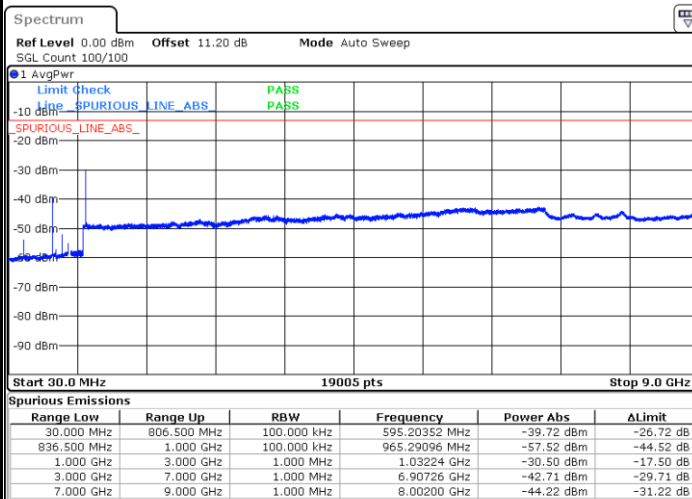
Highest Channel / 16QAM



Date: 9 JUL 2020 17:02:33

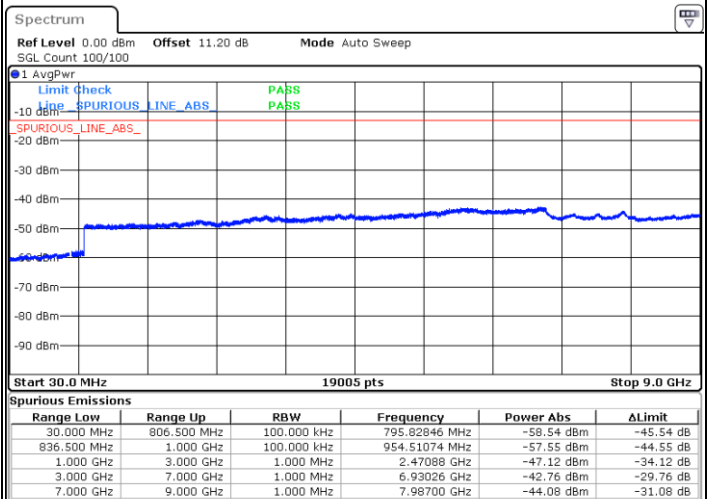
LTE Band 26 / 10MHz

Middle Channel / QPSK



Date: 11 JUL 2020 13:05:05

Middle Channel / 16QAM

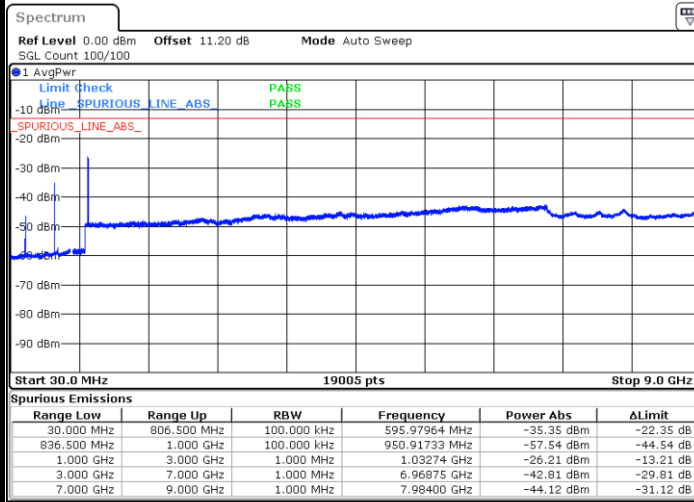


Date: 11 JUL 2020 13:07:58



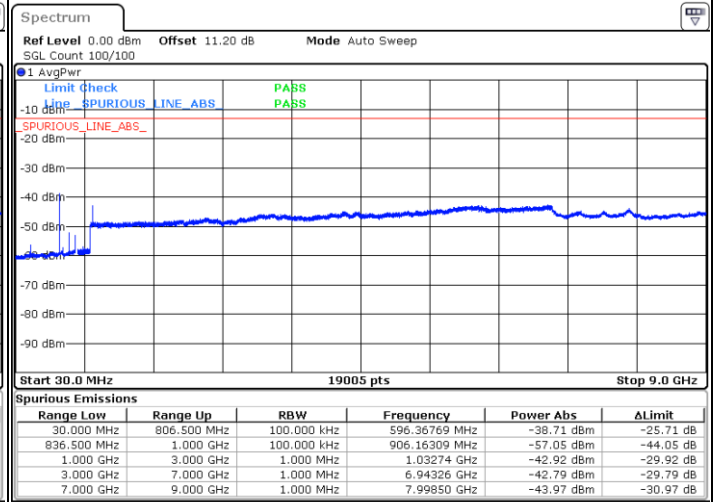
LTE Band 26 / 15MHz

Lowest Channel / QPSK



Date: 11.JUL.2020 13:39:46

Lowest Channel / 16QAM



Date: 11.JUL.2020 13:42:59

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

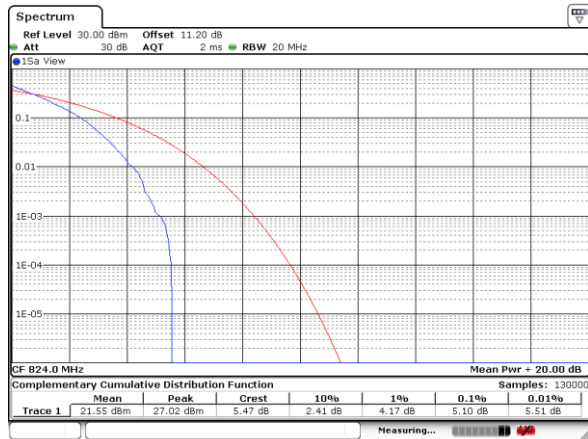
**LTE Band 26 - 824MHz****Peak-to-Average Ratio**

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
824MHz	5.10	5.51	6.26	5.74	

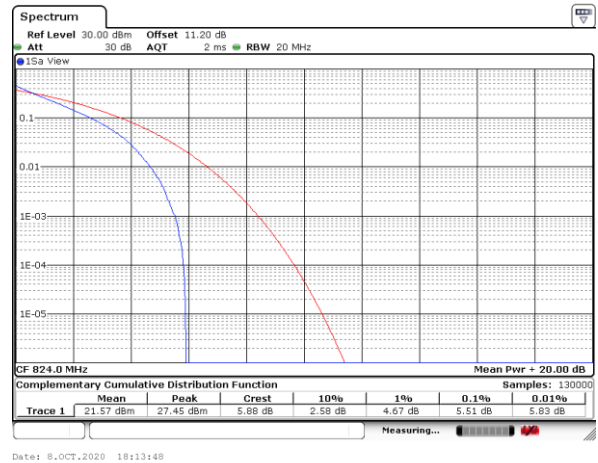


LTE Band 26 / 10MHz / QPSK

824MHz/ 1RB

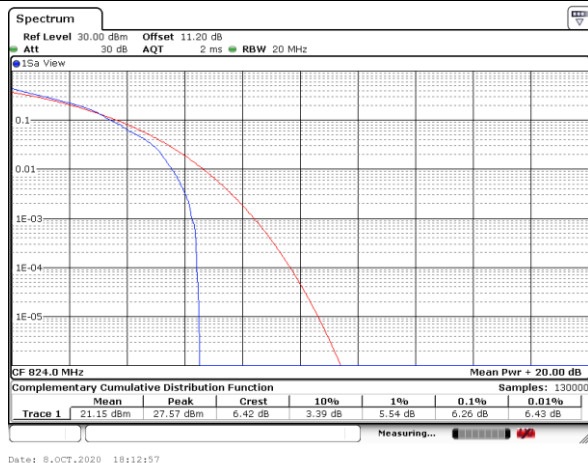


824MHz/ Full RB

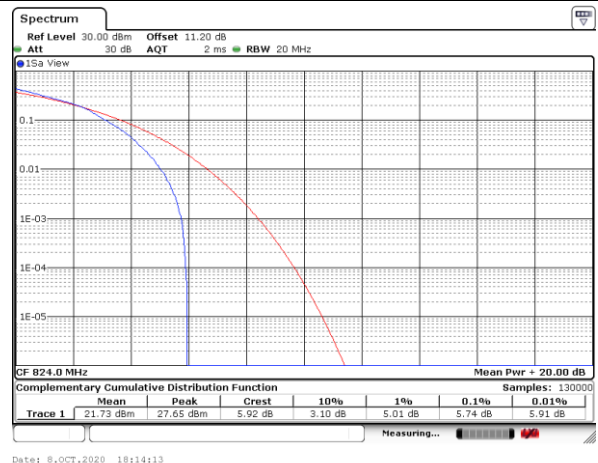


LTE Band 26 / 10MHz / 16QAM

824MHz/ 1RB



824MHz/ Full RB





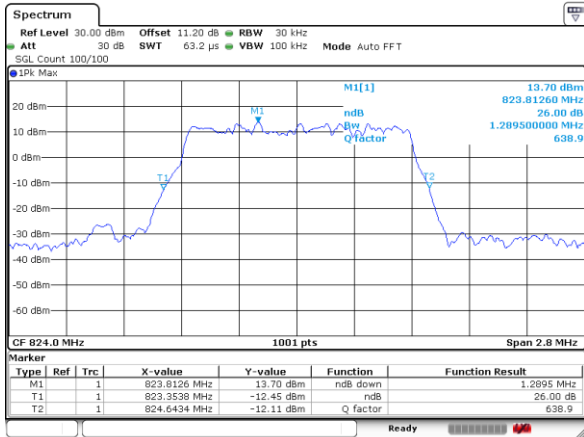
26dB Bandwidth

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
824MHz	1.29	1.30	1.33	1.31	1.30	1.31	1.30	1.28	1.29	1.32	-	-



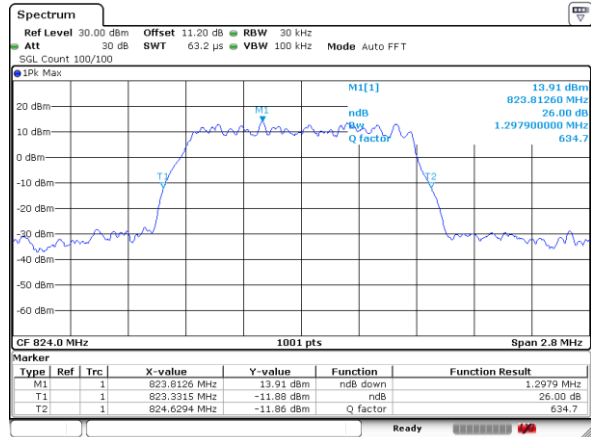
LTE Band 26

824MHz/ 1.4MHz / QPSK



Date: 8.OCT.2020 17:49:47

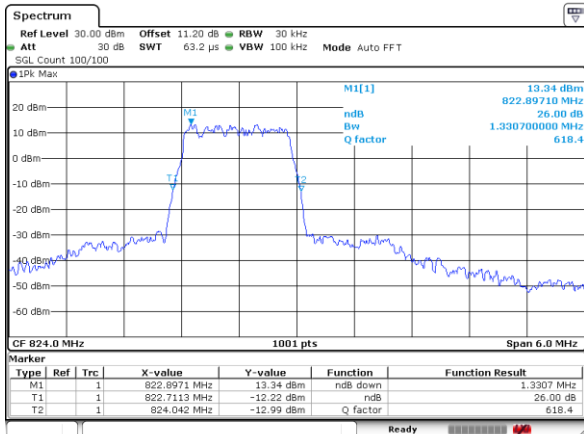
824MHz/ 1.4MHz / 16QAM



Date: 8.OCT.2020 17:50:52

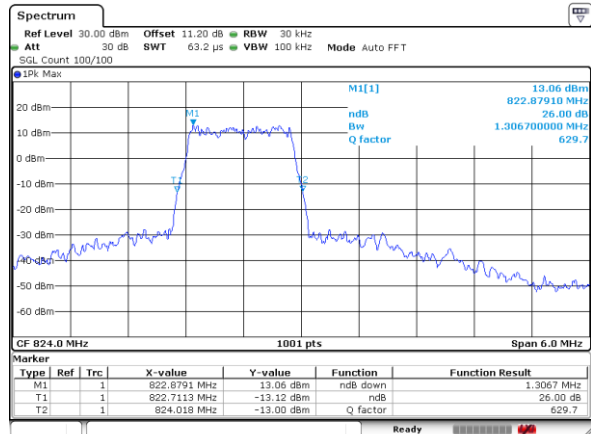
LTE Band 26

824MHz/ 3MHz / QPSK



Date: 8.OCT.2020 17:58:25

824MHz/ 3MHz / 16QAM

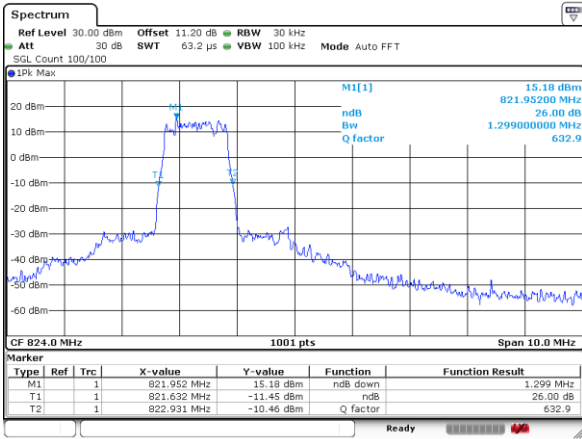


Date: 8.OCT.2020 17:58:49



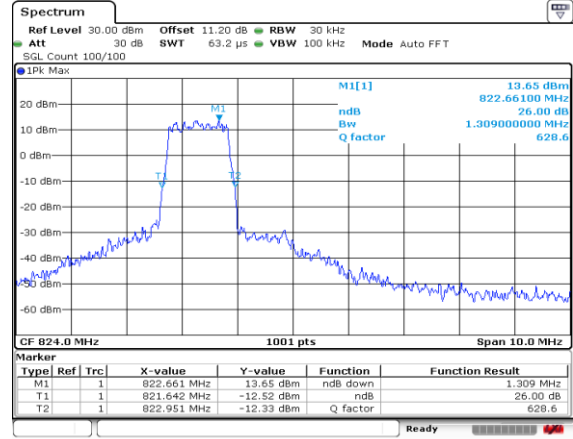
LTE Band 26

824MHz/ 5MHz / QPSK



Date: 8.OCT.2020 18:01:58

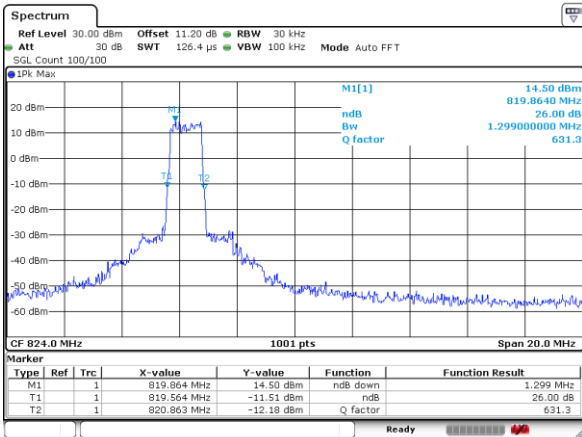
824MHz/ 5MHz / 16QAM



Date: 8.OCT.2020 18:01:32

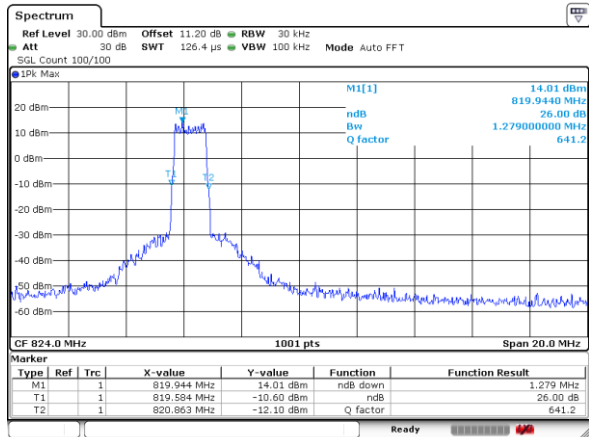
LTE Band 26

824MHz/ 10MHz / QPSK



Date: 8.OCT.2020 18:07:43

824MHz/ 10MHz / 16QAM

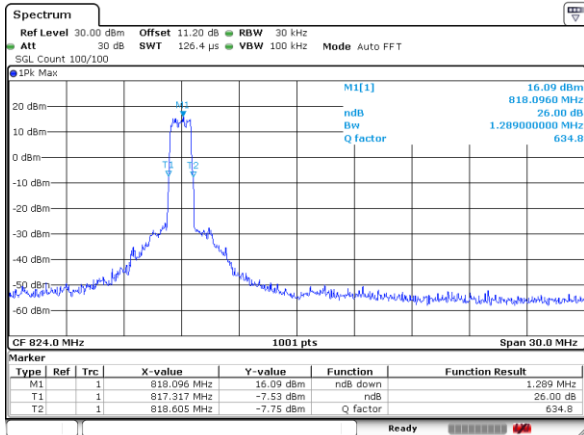


Date: 8.OCT.2020 18:07:26



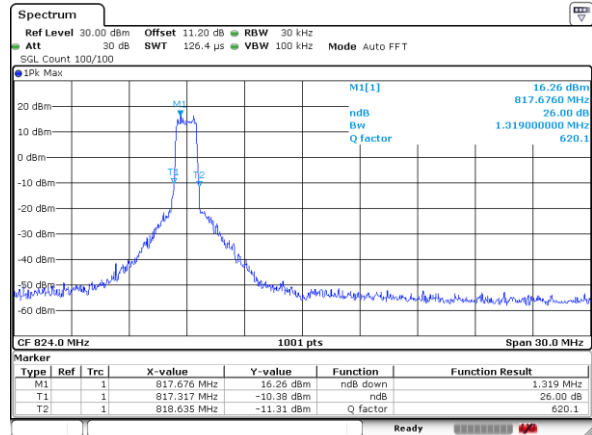
LTE Band 26

824MHz/ 15MHz / QPSK



Date: 8.OCT.2020 18:08:41

824MHz/ 15MHz / 16QAM



Date: 8.OCT.2020 18:08:57



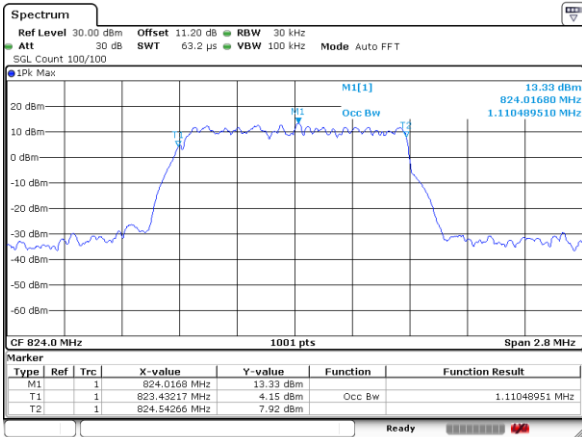
Occupied Bandwidth

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
824MHz	1.11	1.08	1.10	1.08	1.10	1.10	1.12	1.10	1.14	1.11	-	-



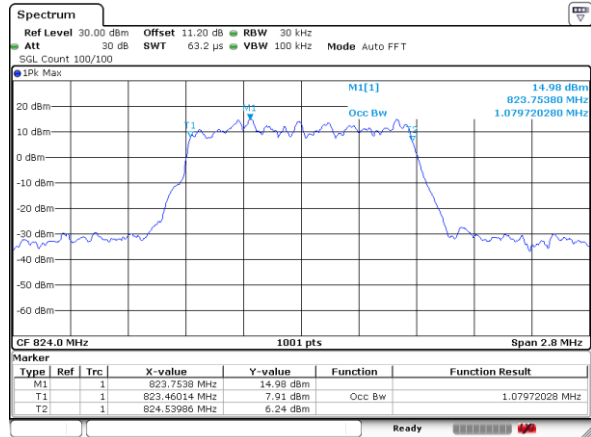
LTE Band 26

824MHz/ 1.4MHz / QPSK



Date: 8.OCT.2020 17:54:33

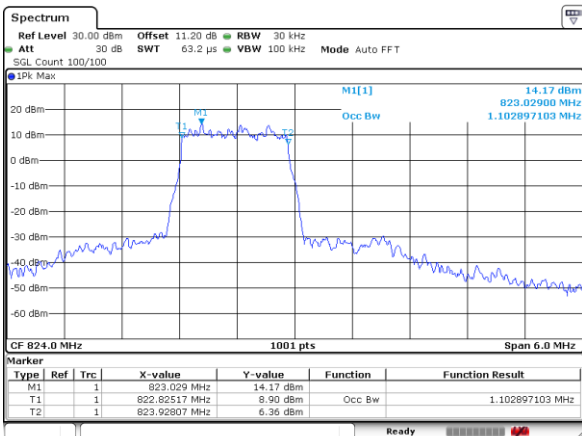
824MHz/ 1.4MHz / 16QAM



Date: 8.OCT.2020 17:53:31

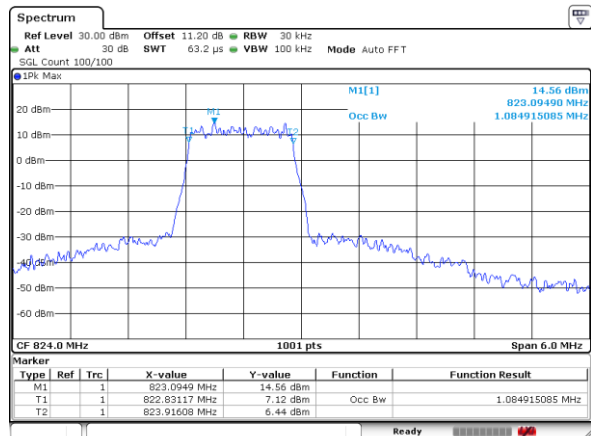
LTE Band 26

824MHz/ 3MHz / QPSK



Date: 8.OCT.2020 17:59:45

824MHz/ 3MHz / 16QAM

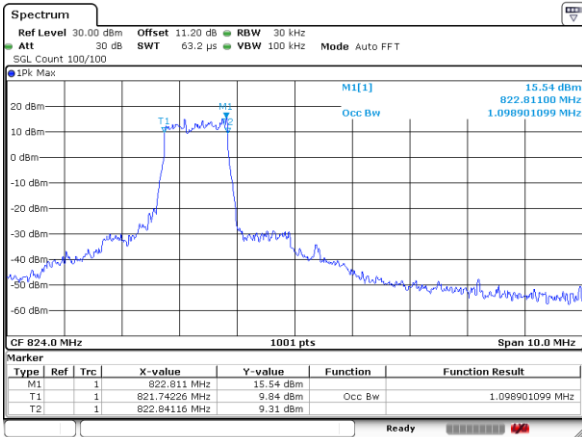


Date: 8.OCT.2020 17:59:18

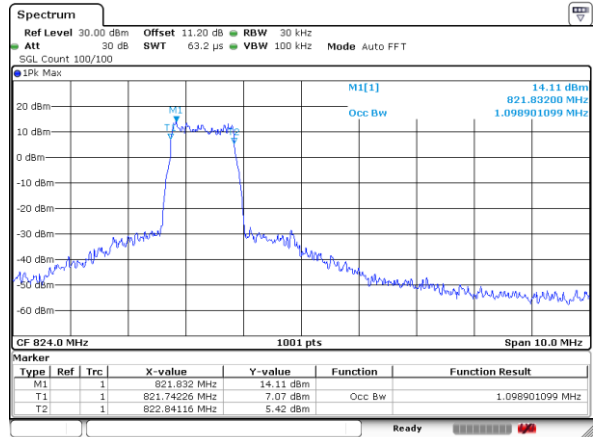


LTE Band 26

824MHz/ 5MHz / QPSK

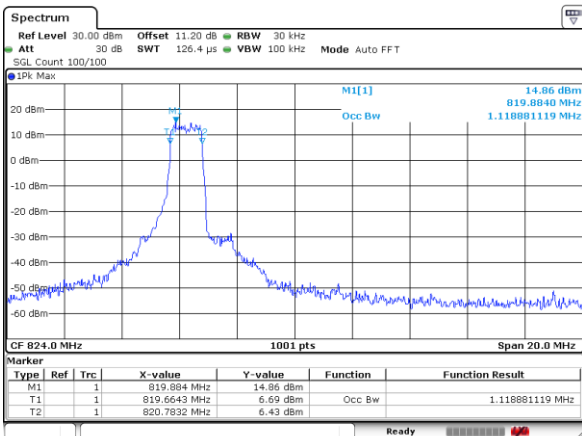


824MHz/ 5MHz / 16QAM

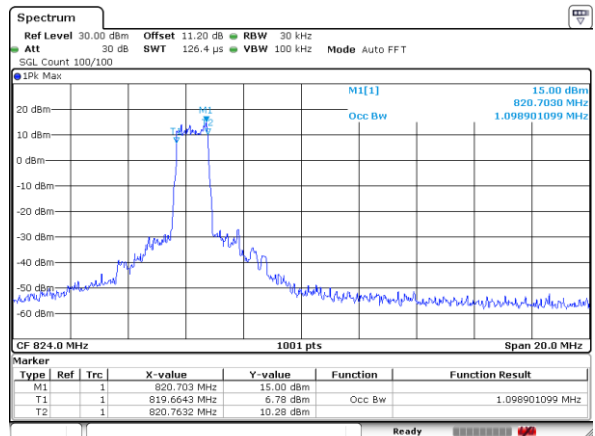


LTE Band 26

824MHz/ 10MHz / QPSK



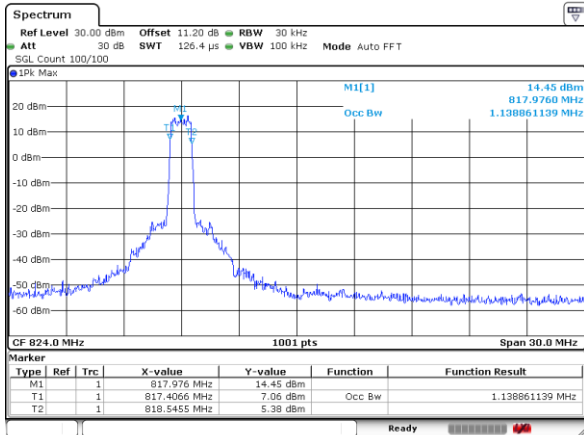
824MHz/ 10MHz / 16QAM





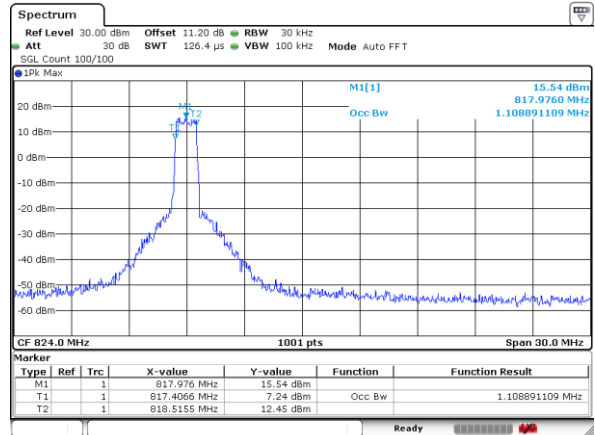
LTE Band 26

824MHz/ 15MHz / QPSK

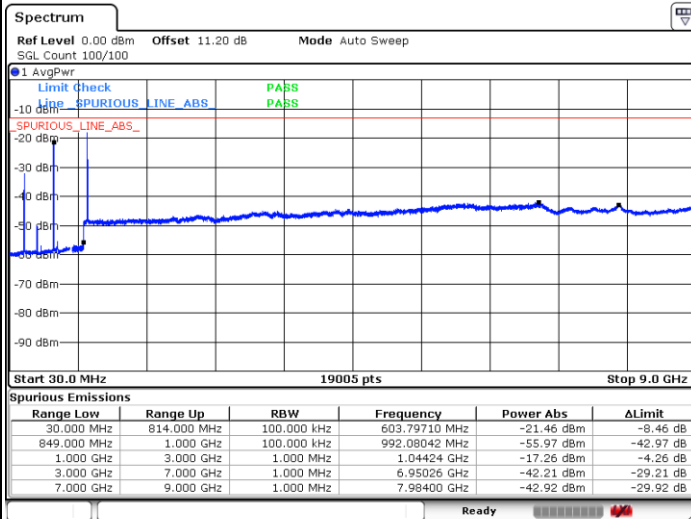


Date: 8.OCT.2020 18:10:12

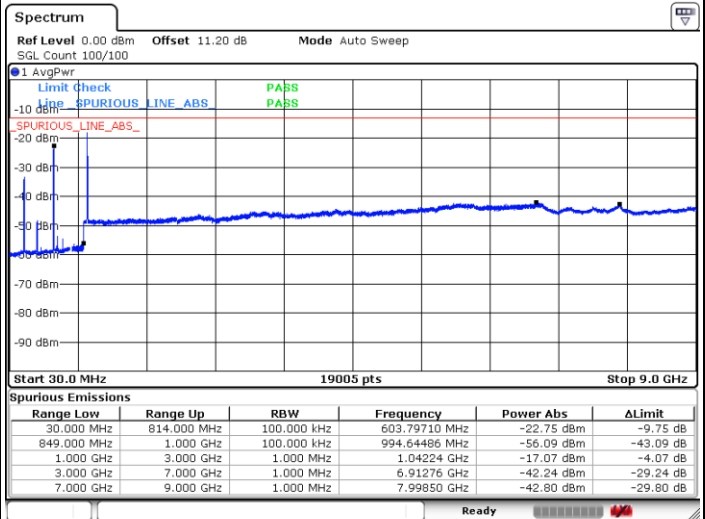
824MHz/ 15MHz / 16QAM



Date: 8.OCT.2020 18:09:44

**Conducted Spurious Emission****LTE Band 26 / 1.4MHz****824MHz/ QPSK**

Date: 8.OCT.2020 17:55:57

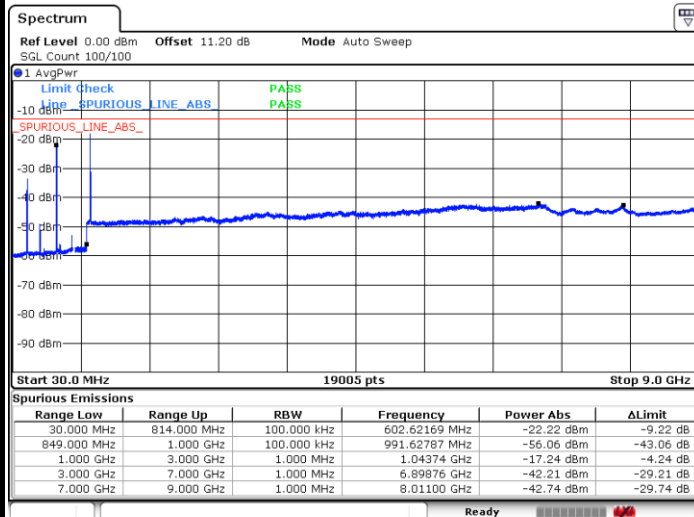
824MHz/ 16QAM

Date: 8.OCT.2020 17:56:35



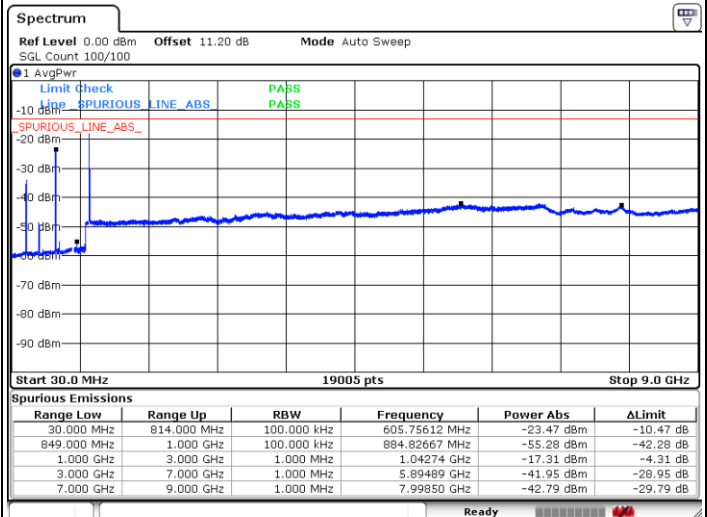
LTE Band 26 / 3MHz

824MHz/ QPSK



Date: 8.OCT.2020 17:57:49

824MHz/ 16QAM

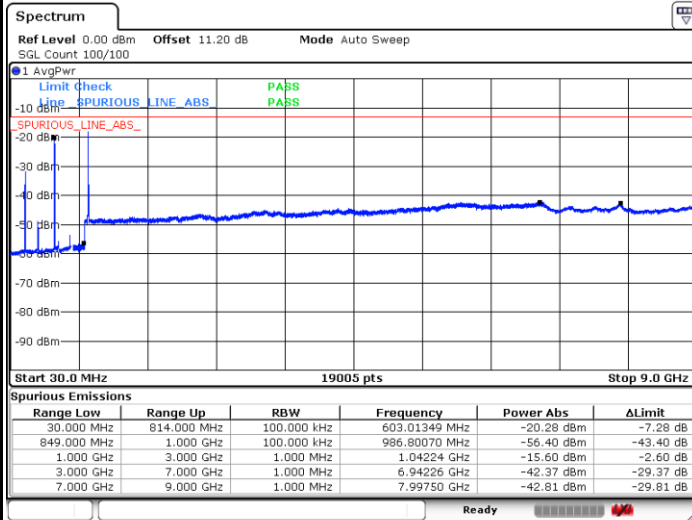


Date: 8.OCT.2020 17:57:14



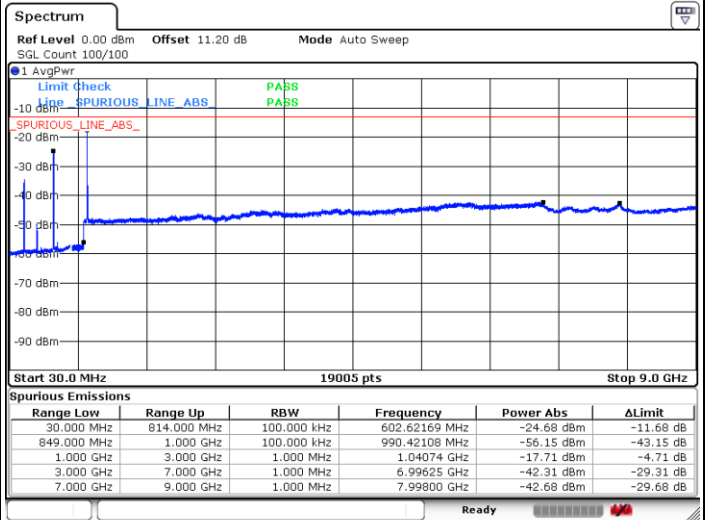
LTE Band 26 / 5MHz

824MHz/ QPSK



Date: 8.OCT.2020 18:03:00

824MHz/ 16QAM

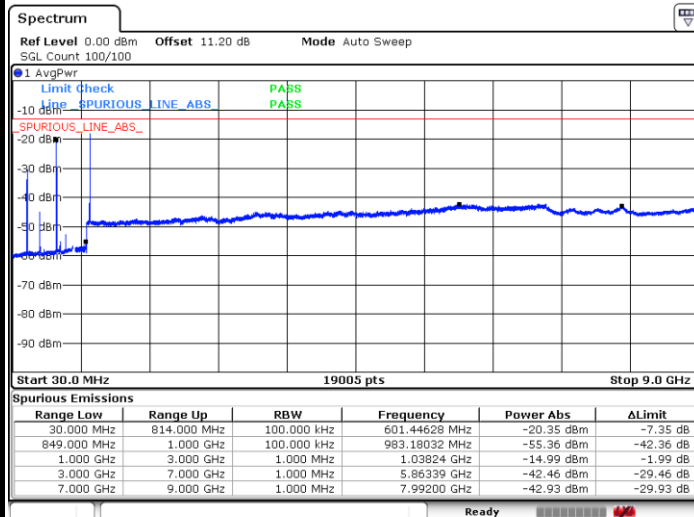


Date: 8.OCT.2020 18:03:40



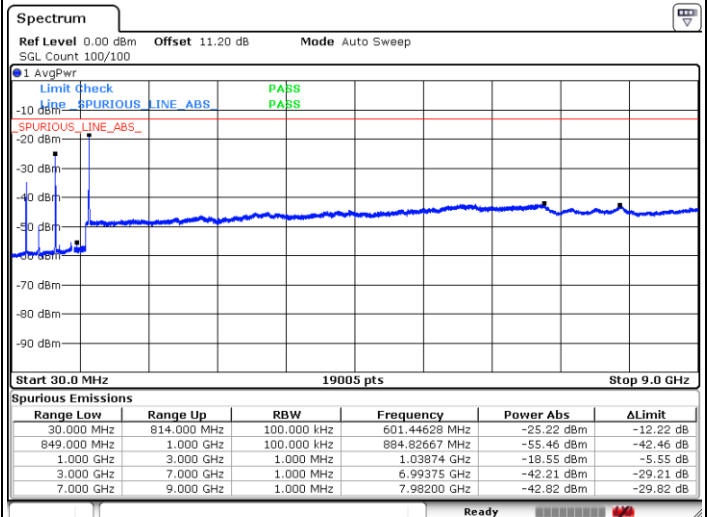
LTE Band 26 / 10MHz

824MHz/ QPSK



Date: 8.OCT.2020 18:05:58

824MHz/ 16QAM

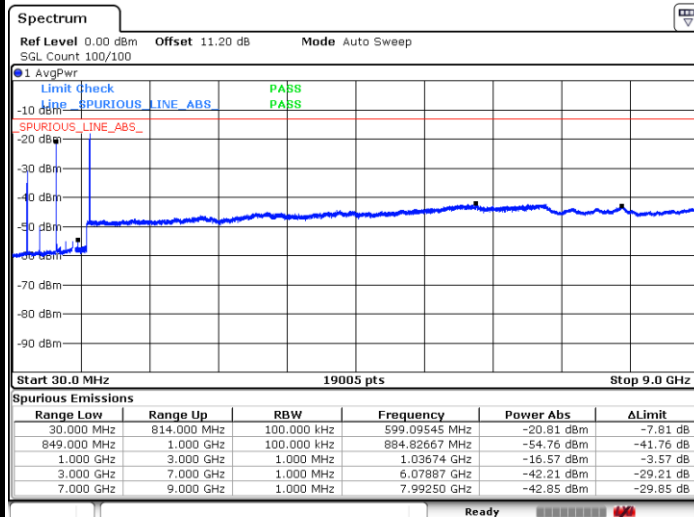


Date: 8.OCT.2020 18:05:12



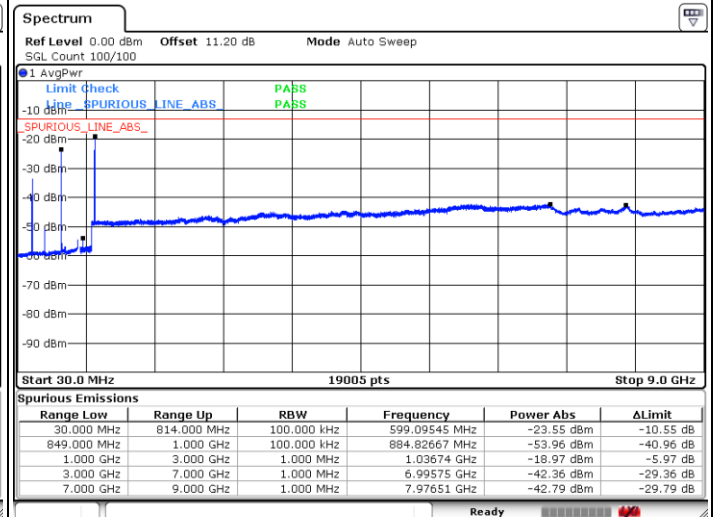
LTE Band 26 / 15MHz

824MHz/ QPSK



Date: 8.OCT.2020 18:10:46

824MHz/ 16QAM



Date: 8.OCT.2020 18:11:21



Appendix B. Test Results of ERP and Radiated Test

ERP

<Reporting Only>

LTE Cat. M1 Band 26 / 15MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	23.65	0.2317	9.30	0.0085
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Lowest	16QAM	3	3	23.86	0.2432	9.51	0.0089
Middle		-	-	-	-	-	-
Highest		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

LTE Cat. M1 Band 26 / 10MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	23.62	0.2301	9.27	0.0085
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		3	0	23.86	0.2432	9.51	0.0089
Highest		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

LTE Cat. M1 Band 26 / 5MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.60	0.2291	9.25	0.0084
Middle		1	0	23.54	0.2259	9.19	0.0083
Highest		1	0	23.45	0.2213	9.10	0.0081
Lowest	16QAM	1	0	23.82	0.2410	9.47	0.0089
Middle		1	0	23.81	0.2404	9.46	0.0088
Highest		1	0	23.94	0.2477	9.59	0.0091
Limit	ERP < 100W			Result		PASS	

LTE Cat. M1 Band 26 / 3MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	23.72	0.2355	9.37	0.0086
Middle		3	0	23.55	0.2265	9.20	0.0083
Highest		3	0	23.53	0.2254	9.18	0.0083
Lowest	16QAM	1	0	23.95	0.2483	9.60	0.0091
Middle		1	0	23.79	0.2393	9.44	0.0088
Highest		1	0	23.77	0.2382	9.42	0.0087
Limit	ERP < 100W			Result		PASS	

LTE Cat. M1 Band 26 / 1.4MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	23.63	0.2307	9.28	0.0085
Middle		3	0	23.67	0.2328	9.32	0.0086
Highest		3	0	23.43	0.2203	9.08	0.0081
Lowest	16QAM	1	0	23.79	0.2393	9.44	0.0088
Middle		1	0	23.87	0.2438	9.52	0.0090
Highest		1	0	23.79	0.2393	9.44	0.0088
Limit	ERP < 100W			Result		PASS	



LTE Cat. M1 Band 26 / 15MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
	QPSK	-	-	-	-	-	-
824MHz		1	0	23.4	0.2188	9.05	0.0080
		-	-	-	-	-	-
	16QAM	-	-	-	-	-	-
824MHz		1	0	23.38	0.2178	9.03	0.0080
		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

LTE Cat. M1 Band 26 / 10MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
	QPSK	-	-	-	-	-	-
824MHz		1	0	23.04	0.2014	8.69	0.0074
		-	-	-	-	-	-
	16QAM	-	-	-	-	-	-
824MHz		1	0	23.31	0.2143	8.96	0.0079
		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

LTE Cat. M1 Band 26 / 5MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
	QPSK	-	-	-	-	-	-
824MHz		1	0	23.09	0.2037	8.74	0.0075
		-	-	-	-	-	-
	16QAM	-	-	-	-	-	-
824MHz		1	0	23.36	0.2168	9.01	0.0080
		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

LTE Cat. M1 Band 26 / 3MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
	QPSK	-	-	-	-	-	-
824MHz		1	0	23.1	0.2042	8.75	0.0075
		-	-	-	-	-	-
	16QAM	-	-	-	-	-	-
824MHz		1	0	22.09	0.1618	7.74	0.0059
		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

LTE Cat. M1 Band 26 / 1.4MHz (Average) (GT - LC = -12.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
	QPSK	-	-	-	-	-	-
824MHz		1	0	23.11	0.2046	8.76	0.0075
		-	-	-	-	-	-
	16QAM	-	-	-	-	-	-
824MHz		1	0	22.07	0.1611	7.72	0.0059
		-	-	-	-	-	-
Limit	ERP < 100W			Result		PASS	

**Radiated Spurious Emission****Cat M1 Band 26**

Cat M1 Band 26 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (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	1632	-40.52	-13	-27.52	-50.15	-46.06	0.91	8.60	H
	2440	-54.04	-13	-41.04	-67.89	-61.37	1.14	10.62	H
	3257	-55.51	-13	-42.51	-71.03	-63.96	1.32	11.92	H
									H
									H
									H
	1632	-44.03	-13	-31.03	-53.19	-49.57	0.91	8.60	V
	2440	-52.18	-13	-39.18	-66.1	-59.51	1.14	10.62	V
	3257	-55.01	-13	-42.01	-71.02	-63.46	1.32	11.92	V
									V
									V
									V
Middle	1632	-38.05	-13	-25.05	-47.68	-43.59	0.91	8.60	H
	2448	-53.34	-13	-40.34	-67.19	-60.68	1.14	10.63	H
	3264	-55.67	-13	-42.67	-71.17	-64.14	1.32	11.93	H
									H
									H
									H
	1632	-43.26	-13	-30.26	-52.42	-48.80	0.91	8.60	V
	2448	-53.01	-13	-40.01	-66.95	-60.35	1.14	10.63	V
	3264	-55.30	-13	-42.30	-71.28	-63.77	1.32	11.93	V
									V
									V
									V



Highest	1638	-38.69	-13	-25.69	-48.33	-44.25	0.92	8.62	H
	2458	-56.42	-13	-43.42	-70.28	-63.77	1.14	10.64	H
	3277	-55.71	-13	-42.71	-71.18	-64.20	1.32	11.96	H
									H
									H
									H
									H
	1638	-43.99	-13	-30.99	-53.14	-49.55	0.92	8.62	V
	2458	-54.89	-13	-41.89	-68.86	-62.24	1.14	10.64	V
	3277	-55.32	-13	-42.32	-71.27	-63.81	1.32	11.96	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)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1632	-40.62	-13	-27.62	-50.25	-46.16	0.91	8.60	H
	2440	-56.57	-13	-43.57	-70.42	-63.90	1.14	10.62	H
	3256	-55.50	-13	-42.50	-71.02	-63.95	1.32	11.91	H
									H
									H
									H
									H
	1632	-45.03	-13	-32.03	-54.19	-50.57	0.91	8.60	V
	2440	-53.51	-13	-40.51	-67.43	-60.84	1.14	10.62	V
	3256	-55.27	-13	-42.27	-71.28	-63.72	1.32	11.91	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)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1632	-40.15	-13	-27.15	-49.78	-45.69	0.91	8.60	H
	2448	-54.66	-13	-41.66	-68.51	-62.00	1.14	10.63	H
	3259	-55.40	-13	-42.40	-70.91	-63.85	1.32	11.92	H
									H
									H
									H
									H
	1632	-43.23	-13	-30.23	-52.39	-48.77	0.91	8.60	V
	2448	-52.76	-13	-39.76	-66.7	-60.10	1.14	10.63	V
	3259	-54.91	-13	-41.91	-70.91	-63.36	1.32	11.92	V
									V
									V
									V
									V

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LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
824MHz	1632	-34.10	-13	-21.10	-42.47	-39.64	0.91	8.60	H
	2456	-56.64	-13	-43.64	-70.1	-63.99	1.14	10.64	H
	3272	-56.93	-13	-43.93	-72.31	-65.41	1.32	11.95	H
									H
									H
									H
									H
	1632	-35.48	-13	-22.48	-43.38	-41.02	0.91	8.60	V
	2456	-57.43	-13	-44.43	-70.99	-64.78	1.14	10.64	V
	3272	-56.79	-13	-43.79	-72.65	-65.27	1.32	11.95	V
									V
									V
									V
									V

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

—————THE END—————