



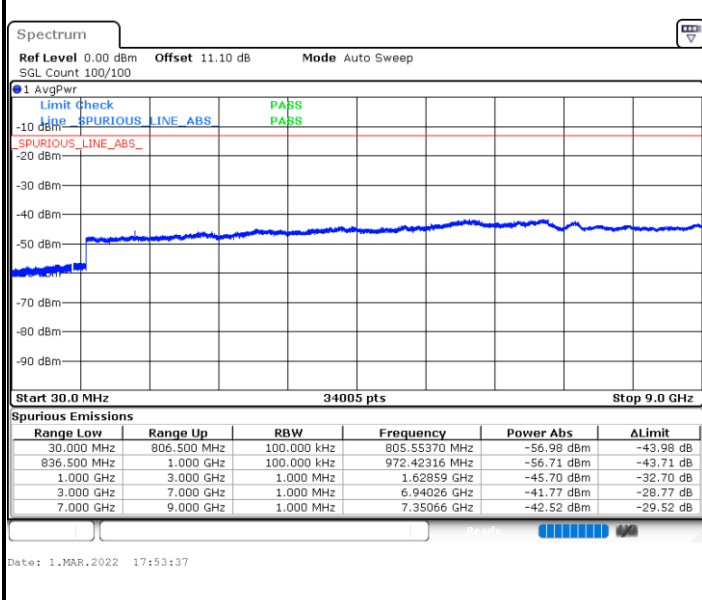
Emission masks – Out of band emissions



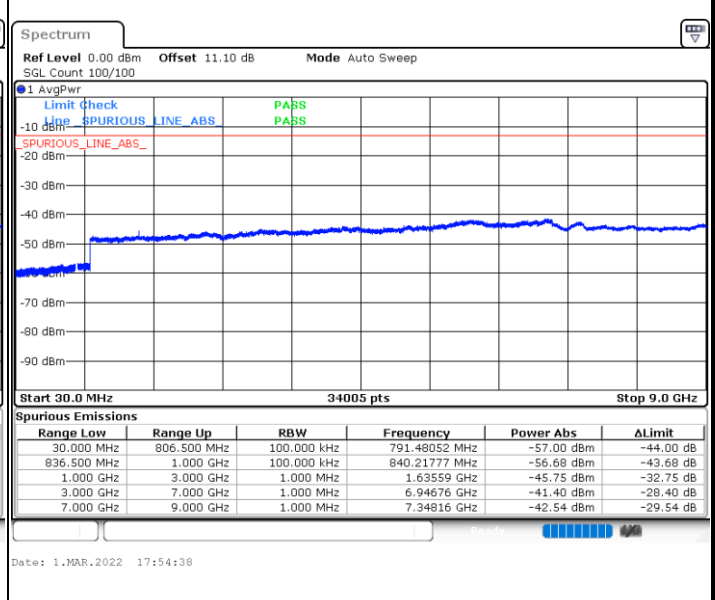


LTE Band 26 / 3MHz

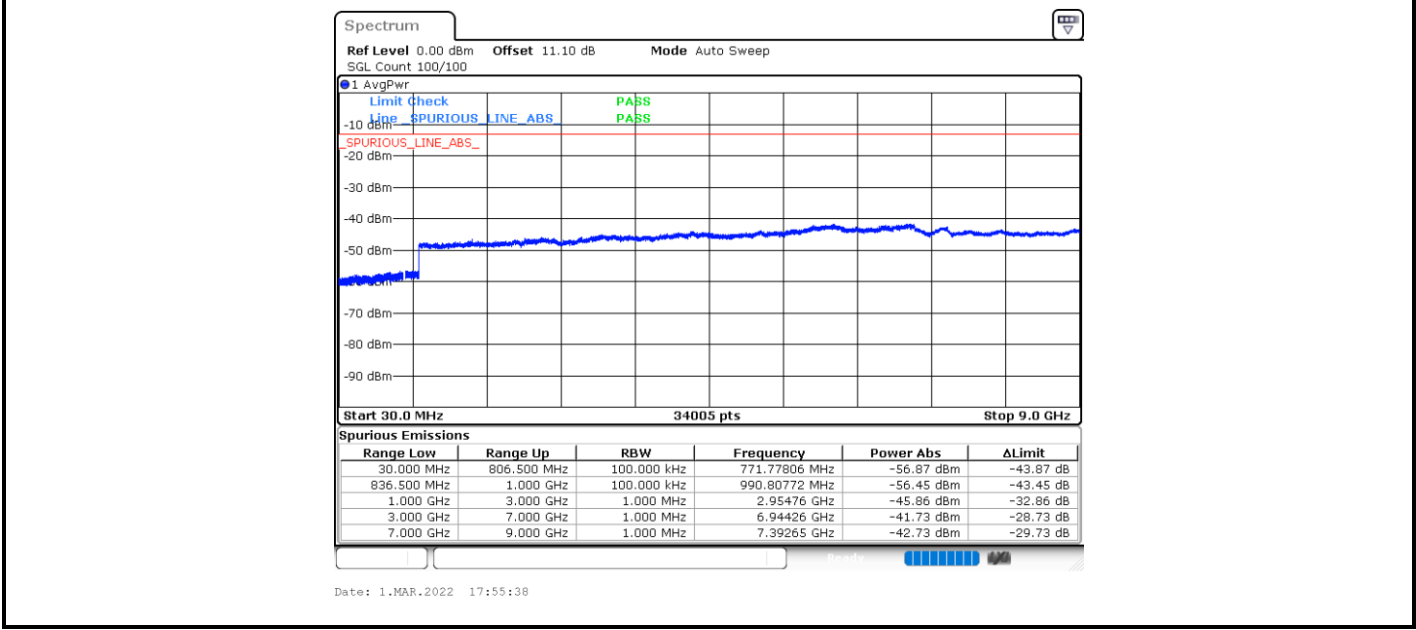
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

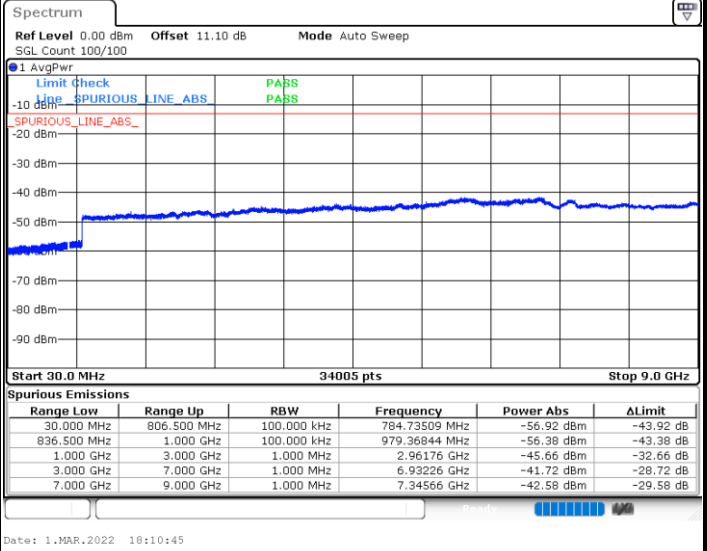
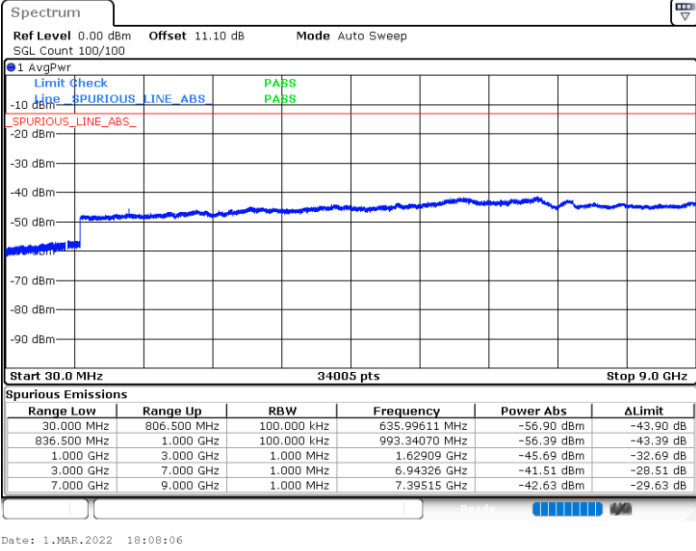




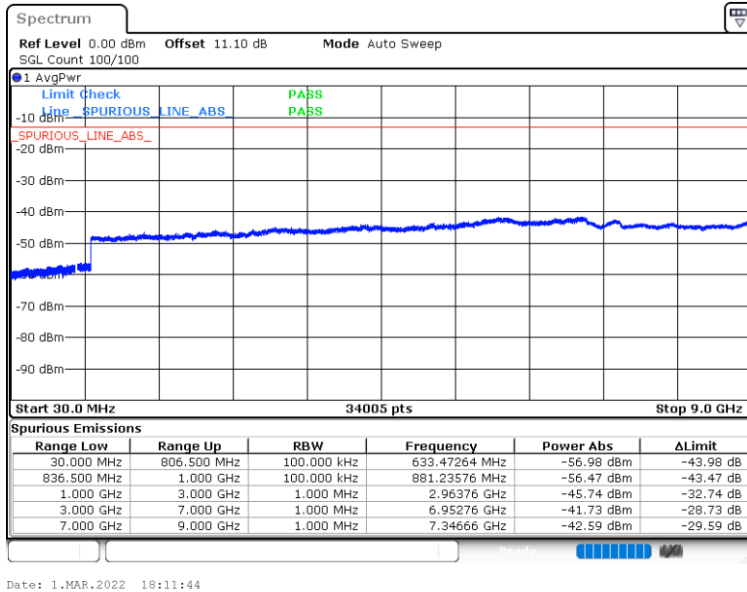
LTE Band 26 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



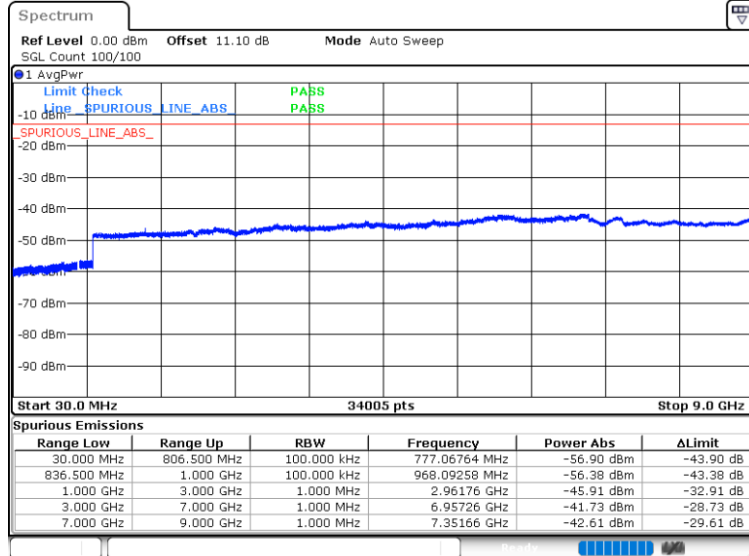
Highest Channel / QPSK





LTE Band 26 / 10MHz

Middle Channel / QPSK

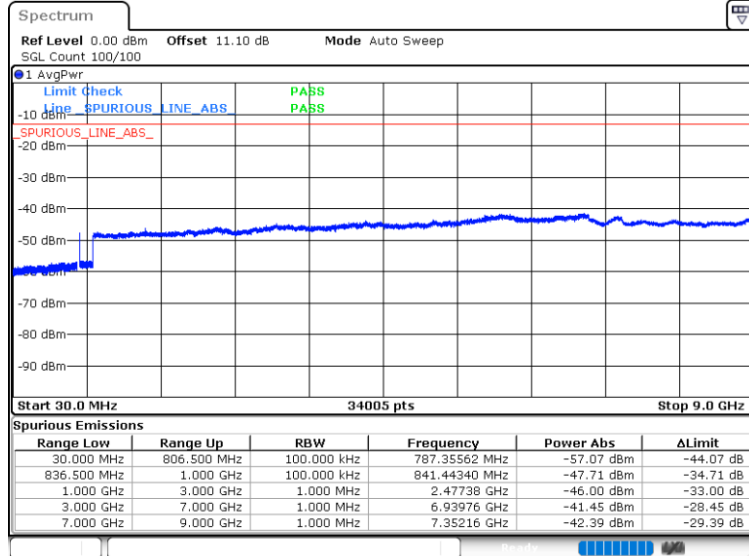


Date: 1.MAR.2022 18:25:46



LTE Band 26 / 15MHz

Lowest Channel / QPSK



Date: 1.MAR.2022 18:45:51



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	0.0117	PASS
40	Normal Voltage	0.0045	
30	Normal Voltage	0.0062	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0049	
-10	Normal Voltage	0.0076	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0070	
20	Normal Voltage	0.0077	
20	Battery End Point	0.0143	

Note:

- 1. Normal Voltage =4 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.4 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	0.0119	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0074	
0	Normal Voltage	0.0083	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0044	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0056	
20	Normal Voltage	0.0094	
20	Battery End Point	0.0083	

Note:

- 1. Normal Voltage =4 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26_824MHz

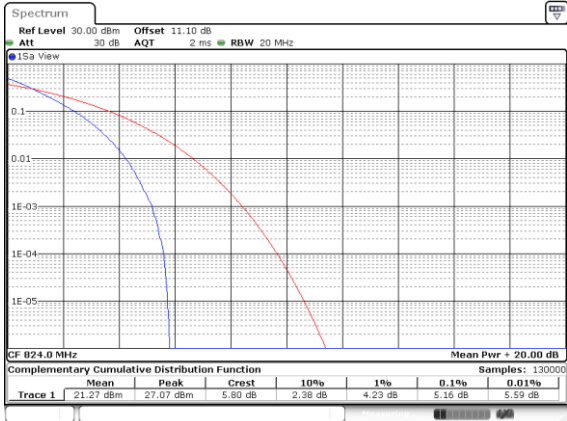
Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.16	5.94	6.35	-	PASS



LTE Band 26 / 15MHz / QPSK

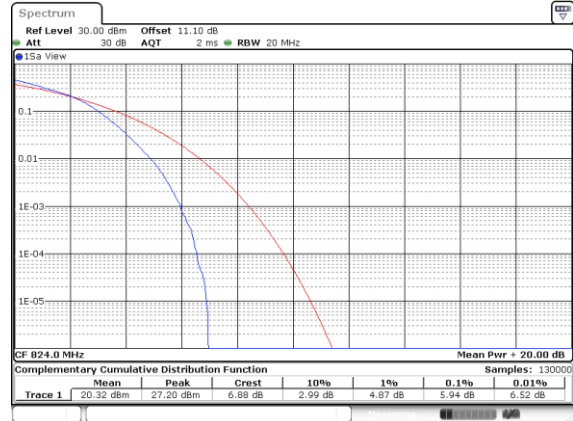
Middle Channel / Full RB



Date: 1.MAR.2022 17:27:16

LTE Band 26 / 15MHz / 16QAM

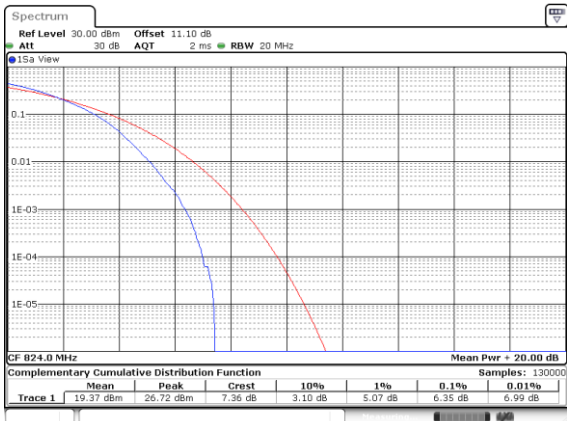
Middle Channel / Full RB



Date: 1.MAR.2022 17:27:41

LTE Band 26 / 15MHz / 64QAM

Middle Channel / Full RB



Date: 1.MAR.2022 17:28:07



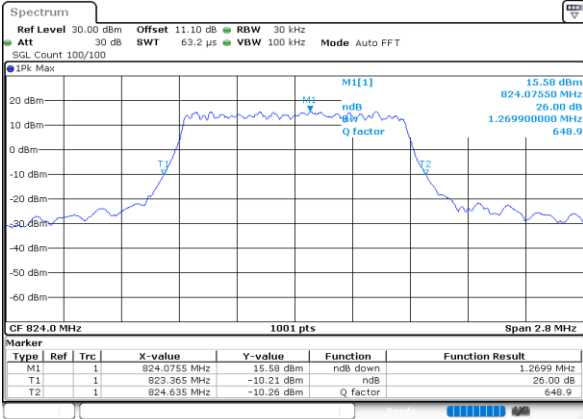
26dB Bandwidth

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	1.27	1.30	3.04	2.99	5.01	4.94	9.83	9.95	14.39	14.54	-	-
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	1.27	-	2.99	-	5.02	-	9.81	-	14.42	-	-	-



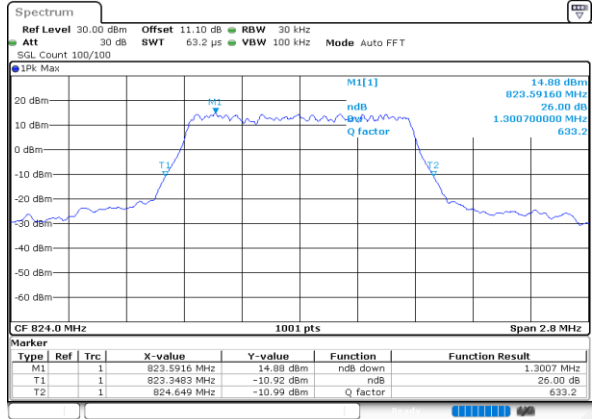
LTE Band 26

Middle Channel / 1.4MHz / QPSK



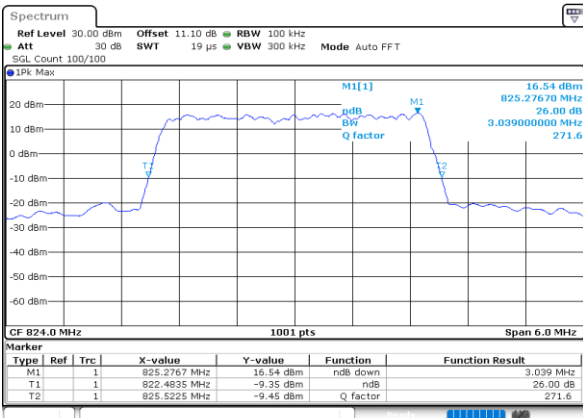
Date: 1.MAR.2022 17:15:22

Middle Channel / 1.4MHz / 16QAM



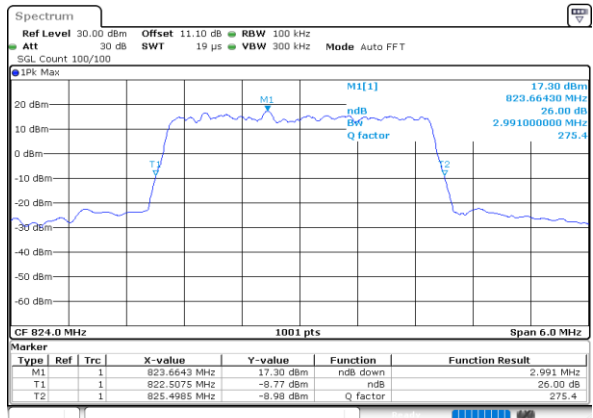
Date: 1.MAR.2022 17:15:47

Middle Channel / 3MHz / QPSK



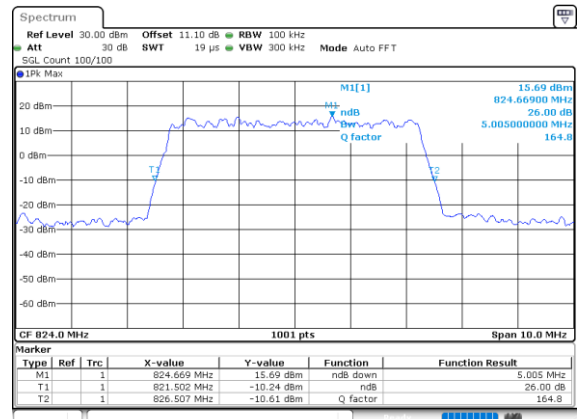
Date: 1.MAR.2022 17:17:49

Middle Channel / 3MHz / 16QAM



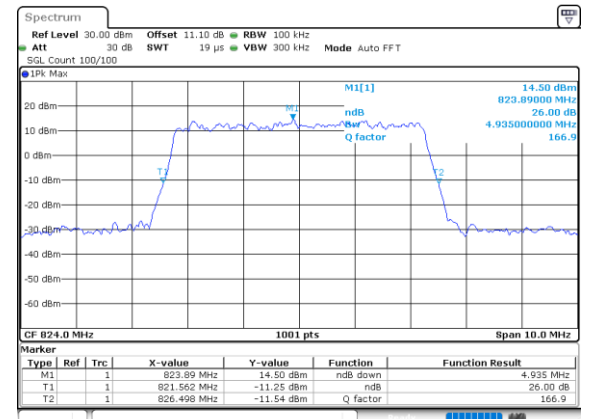
Date: 1.MAR.2022 17:18:13

Middle Channel / 5MHz / QPSK



Date: 1.MAR.2022 17:20:16

Middle Channel / 5MHz / 16QAM

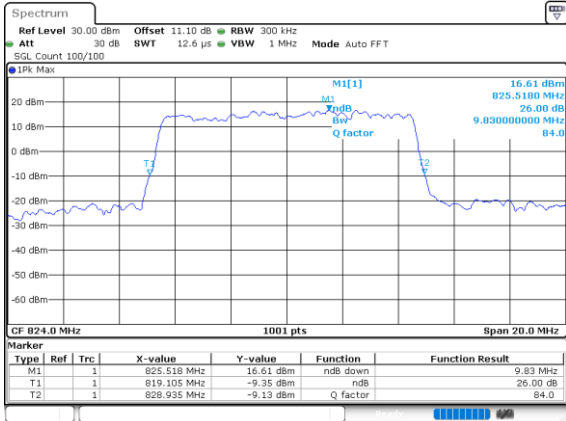


Date: 1.MAR.2022 17:20:41



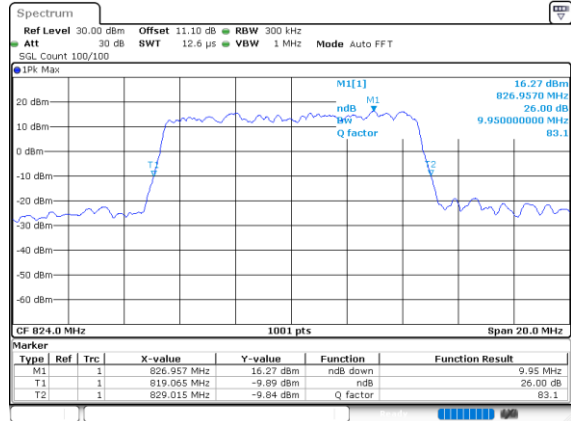
LTE Band 26

Middle Channel / 10MHz / QPSK



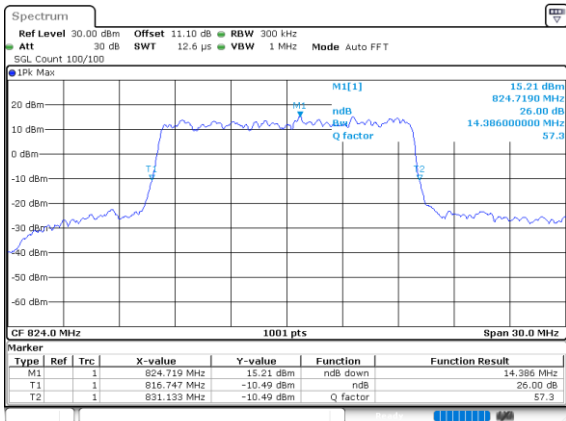
Date: 1.MAR.2022 17:22:43

Middle Channel / 10MHz / 16QAM



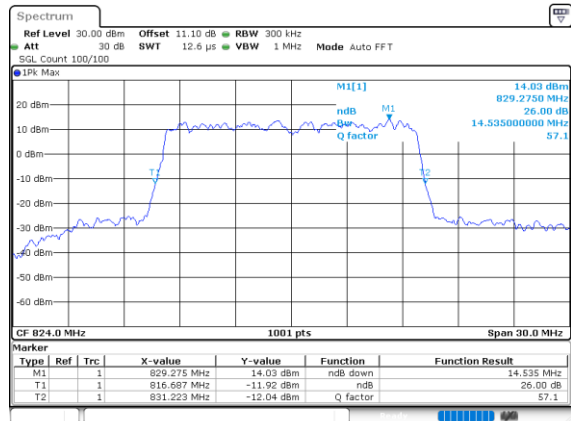
Date: 1.MAR.2022 17:23:07

Middle Channel / 15MHz / QPSK



Date: 1.MAR.2022 17:25:12

Middle Channel / 15MHz / 16QAM

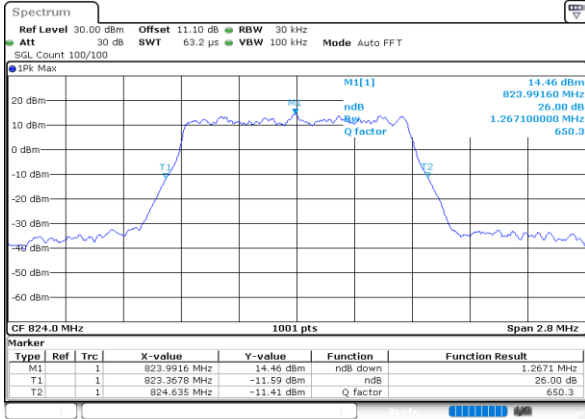


Date: 1.MAR.2022 17:25:37



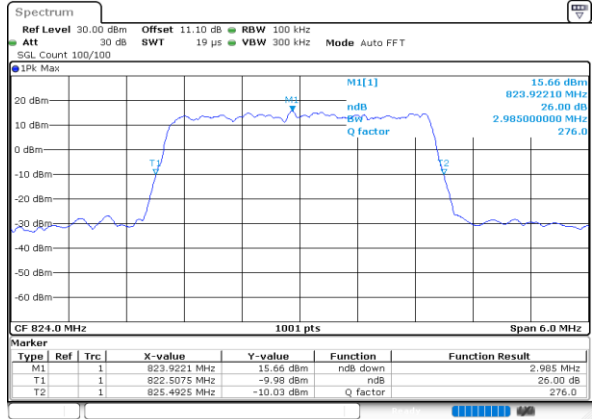
LTE Band 26

Middle Channel / 1.4MHz / 64QAM



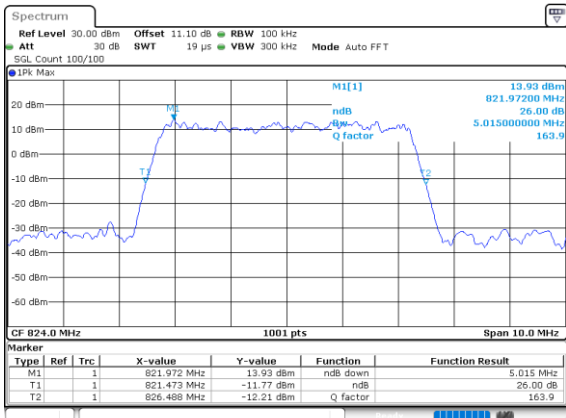
Date: 1.MAR.2022 17:16:59

Middle Channel / 3MHz / 64QAM



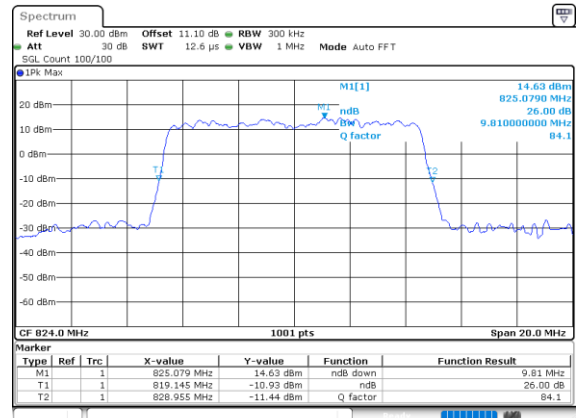
Date: 1.MAR.2022 17:19:26

Middle Channel / 5MHz / 64QAM



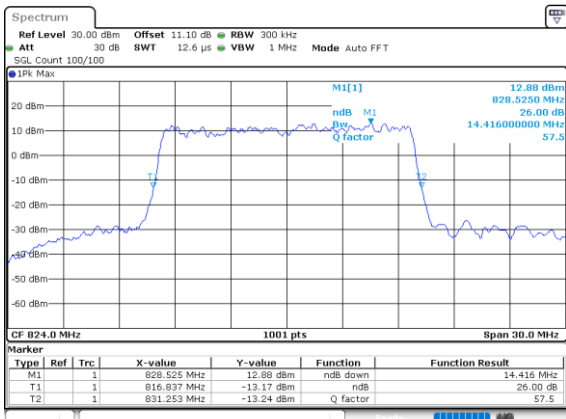
Date: 1.MAR.2022 17:21:53

Middle Channel / 10MHz / 64QAM



Date: 1.MAR.2022 17:24:20

Middle Channel / 15MHz / 64QAM



Date: 1.MAR.2022 17:26:49

N/A



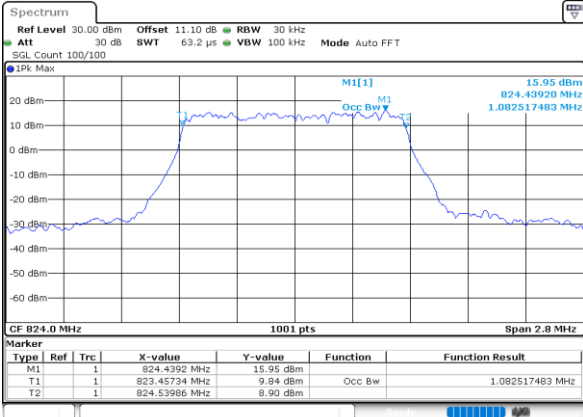
Occupied Bandwidth

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	2.73	2.72	4.49	4.49	8.97	9.03	13.43	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	-	4.50	-	9.01	-	13.40	-	-	-



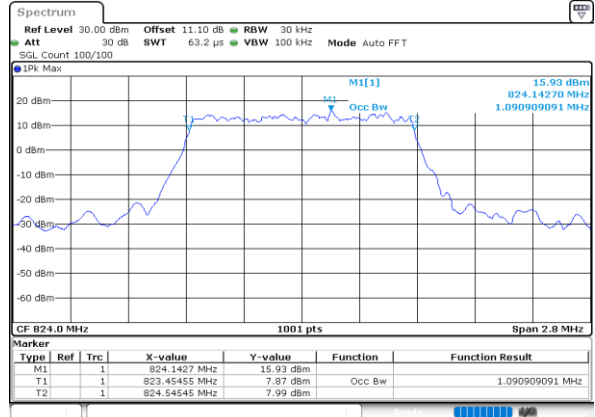
LTE Band 26

Middle Channel / 1.4MHz / QPSK



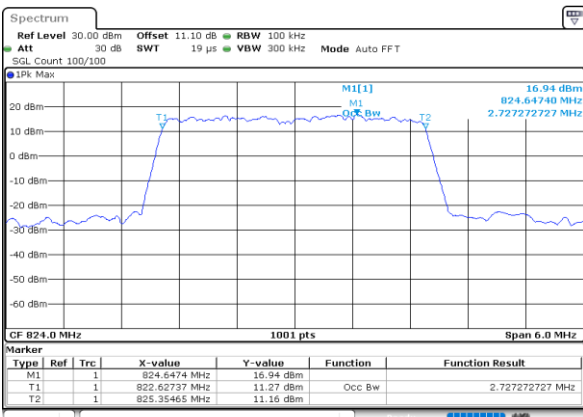
Date: 1.MAR.2022 17:14:58

Middle Channel / 1.4MHz / 16QAM



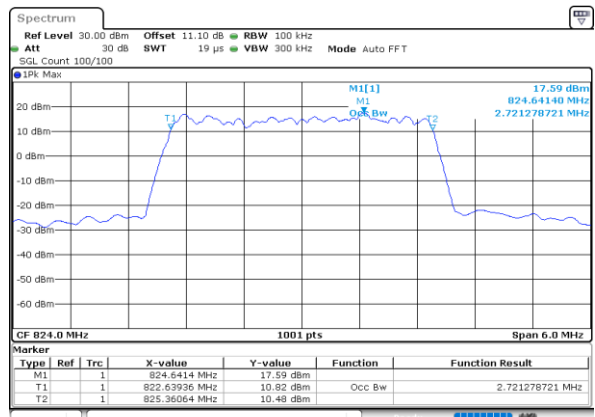
Date: 1.MAR.2022 17:16:11

Middle Channel / 3MHz / QPSK



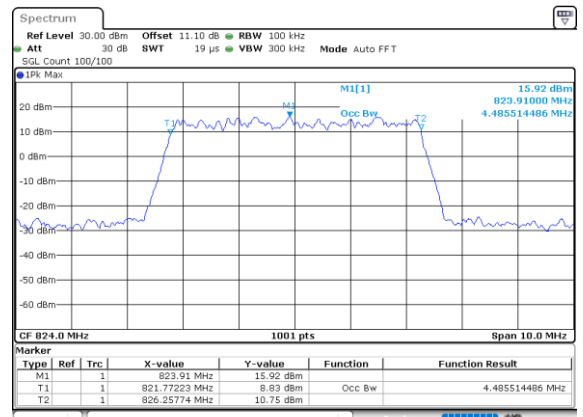
Date: 1.MAR.2022 17:17:25

Middle Channel / 3MHz / 16QAM



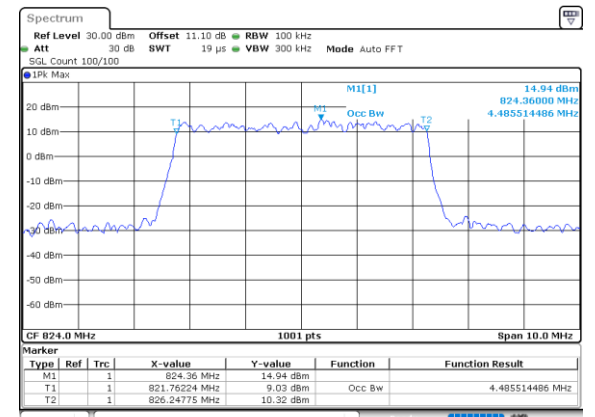
Date: 1.MAR.2022 17:18:38

Middle Channel / 5MHz / QPSK



Date: 1.MAR.2022 17:19:52

Middle Channel / 5MHz / 16QAM

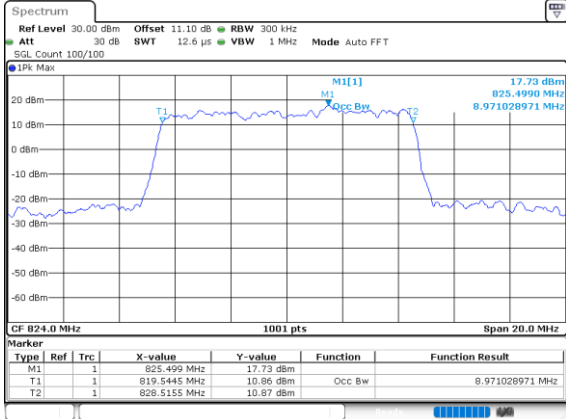


Date: 1.MAR.2022 17:21:05



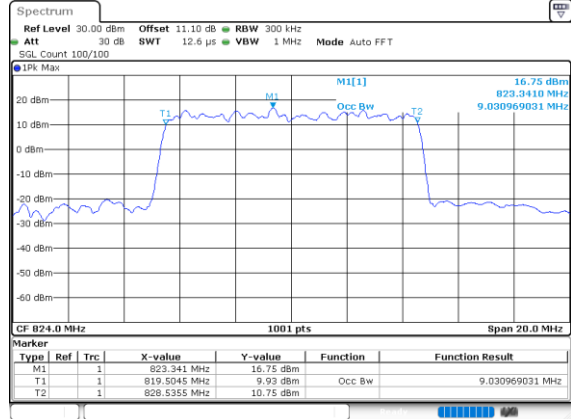
LTE Band 26

Middle Channel / 10MHz / QPSK



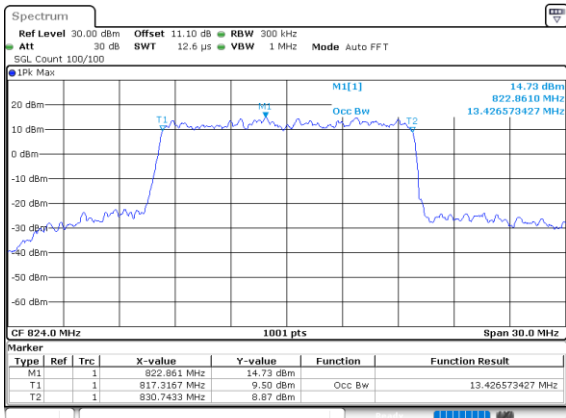
Date: 1.MAR.2022 17:22:19

Middle Channel / 10MHz / 16QAM



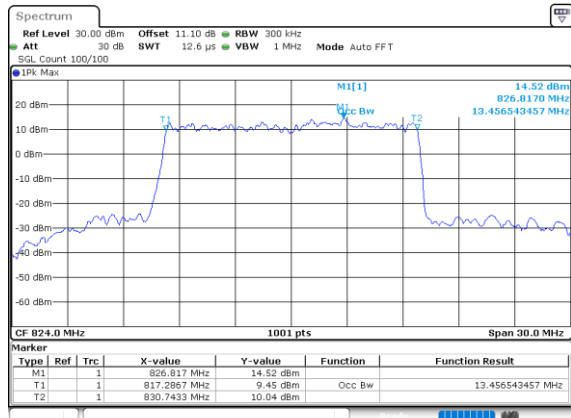
Date: 1.MAR.2022 17:23:13

Middle Channel / 15MHz / QPSK



Date: 1.MAR.2022 17:24:16

Middle Channel / 15MHz / 16QAM

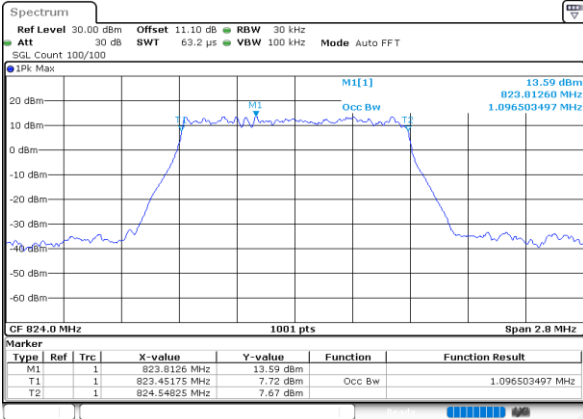


Date: 1.MAR.2022 17:26:01



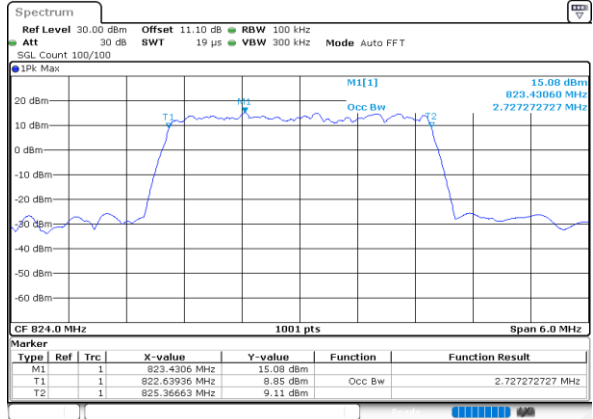
LTE Band 26

Middle Channel / 1.4MHz / 64QAM



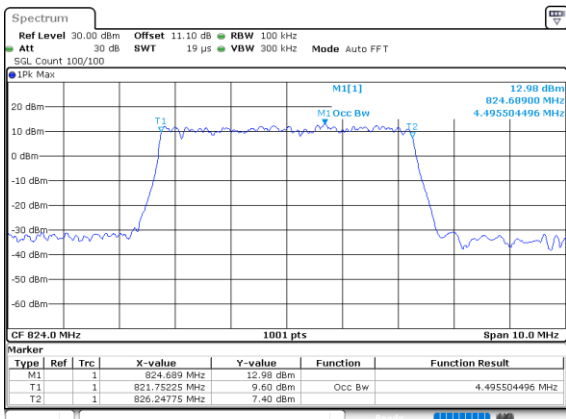
Date: 1.MAR.2022 17:16:35

Middle Channel / 3MHz / 64QAM



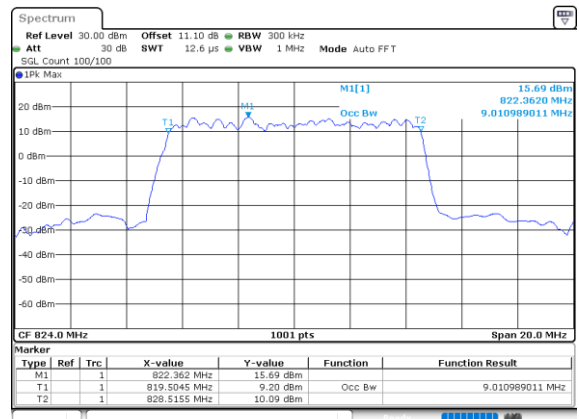
Date: 1.MAR.2022 17:19:02

Middle Channel / 5MHz / 64QAM



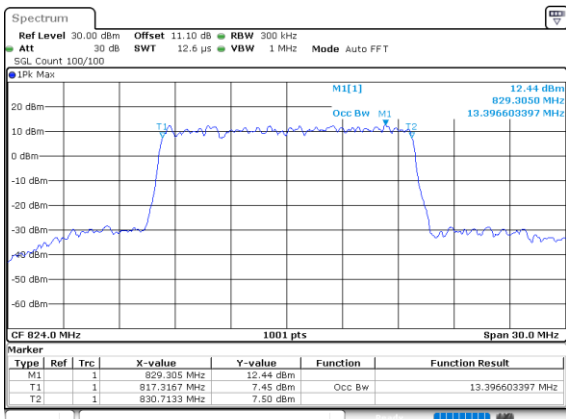
Date: 1.MAR.2022 17:21:29

Middle Channel / 10MHz / 64QAM



Date: 1.MAR.2022 17:23:56

Middle Channel / 15MHz / 64QAM



Date: 1.MAR.2022 17:26:25

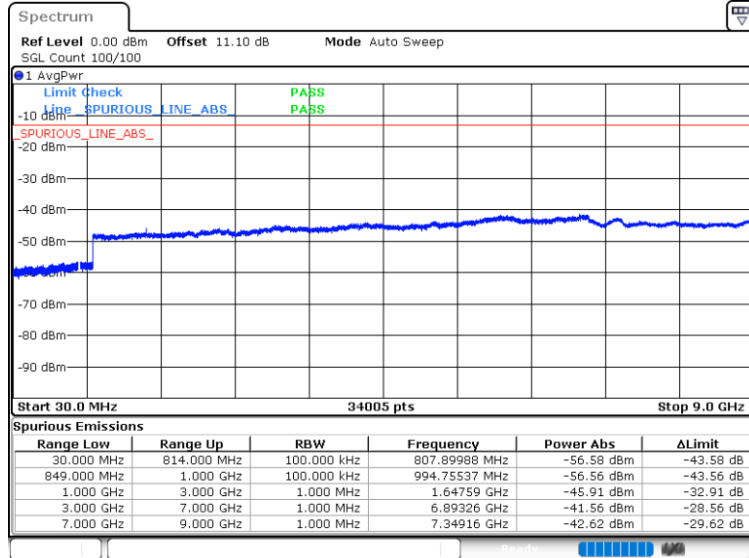
N/A



Emission masks – Out of band emissions

LTE Band 26 / 1.4MHz

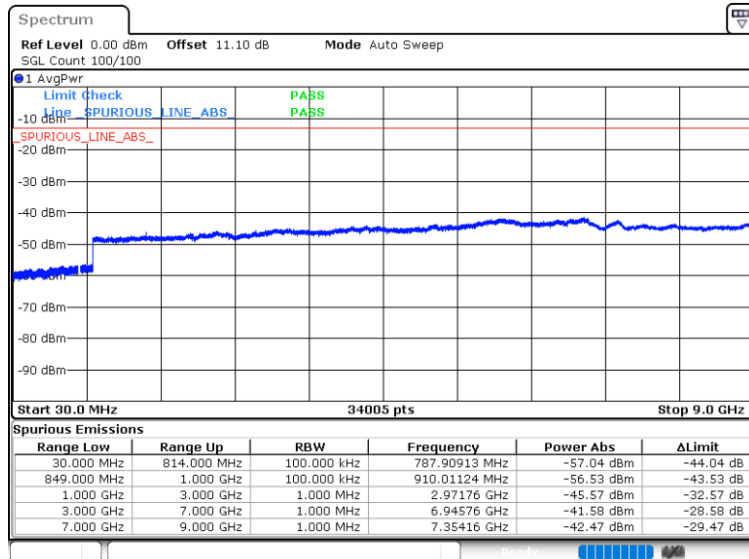
Middle Channel / QPSK



Date: 1.MAR.2022 17:29:11

LTE Band 26 / 3MHz

Middle Channel / QPSK

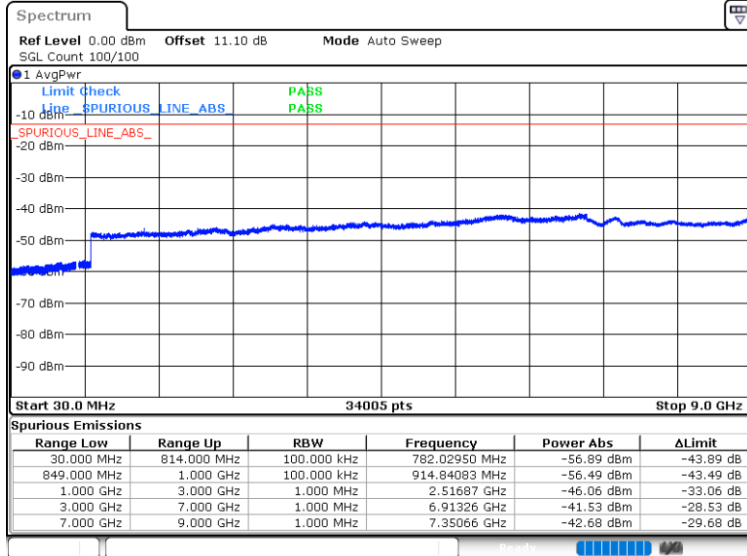


Date: 1.MAR.2022 17:30:12



LTE Band 26 / 5MHz

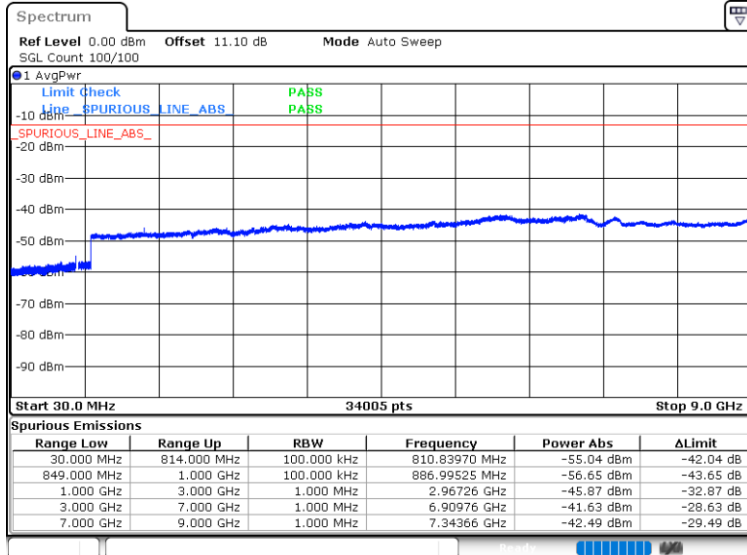
Middle Channel / QPSK



Date: 1.MAR.2022 17:31:14

LTE Band 26 / 10MHz

Middle Channel / QPSK

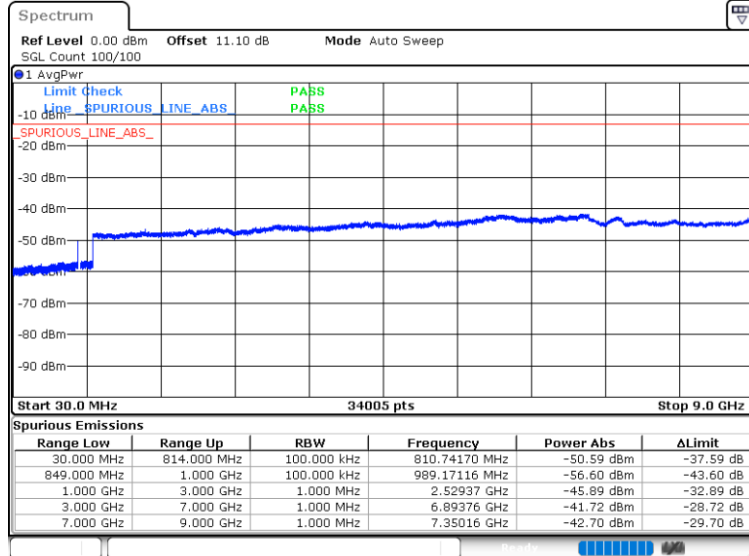


Date: 1.MAR.2022 17:32:15



LTE Band 26 / 15MHz

Middle Channel / QPSK



Date: 1.MAR.2022 17:33:17



Appendix B. Test Results of Radiated Test

LTE Band 26

LTE 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	-60.75	-13	-47.75	-67.26	-65.93	1.82	9.16	H
	2440	-54.66	-13	-41.66	-65.07	-60.74	2.23	10.46	H
	3256	-60.64	-13	-47.64	-73.36	-68.01	2.60	12.12	H
	4072	-56.32	-13	-43.32	-70.69	-63.99	2.88	12.70	H
	4888	-48.24	-13	-35.24	-64.86	-55.53	3.23	12.68	H
	5696	-56.46	-13	-43.46	-74.75	-64.22	3.50	13.41	H
	6512	-55.52	-13	-42.52	-76.27	-61.92	3.75	12.30	H
	7328	-51.04	-13	-38.04	-74.15	-55.92	3.97	11.00	H
	8144	-53.21	-13	-40.21	-76.99	-58.02	4.21	11.18	H
	1632	-60.45	-13	-47.45	-67.42	-65.63	1.82	9.16	V
	2440	-55.70	-13	-42.70	-66.56	-61.78	2.23	10.46	V
	3256	-60.74	-13	-47.74	-73.88	-68.11	2.60	12.12	V
	4072	-55.84	-13	-42.84	-70.7	-63.51	2.88	12.70	V
	4888	-44.69	-13	-31.69	-61.9	-51.98	3.23	12.68	V
	5704	-53.19	-13	-40.19	-71.76	-60.94	3.50	13.40	V
	6512	-52.71	-13	-39.71	-73.75	-59.11	3.75	12.30	V
	7328	-49.37	-13	-36.37	-72.93	-54.25	3.97	11.00	V
	8144	-50.66	-13	-37.66	-75.09	-55.47	4.21	11.18	V



Middle	1632	-58.93	-13	-45.93	-65.44	-64.11	1.82	9.16	H
	2448	-53.14	-13	-40.14	-63.62	-59.25	2.24	10.49	H
	3264	-59.08	-13	-46.08	-71.78	-66.48	2.61	12.16	H
	4080	-53.72	-13	-40.72	-68.1	-61.39	2.88	12.70	H
	4904	-45.65	-13	-32.65	-62.29	-52.96	3.24	12.70	H
	5720	-54.30	-13	-41.30	-72.74	-62.05	3.50	13.40	H
	6536	-55.19	-13	-42.19	-75.98	-61.58	3.76	12.30	H
	7352	-49.75	-13	-36.75	-72.96	-54.63	3.97	11.01	H
									H
	1632	-60.50	-13	-47.50	-67.47	-65.68	1.82	9.16	V
	2448	-54.81	-13	-41.81	-65.68	-60.92	2.24	10.49	V
	3264	-59.48	-13	-46.48	-72.6	-66.88	2.61	12.16	V
	4080	-54.74	-13	-41.74	-69.62	-62.41	2.88	12.70	V
	4904	-43.50	-13	-30.50	-60.74	-50.81	3.24	12.70	V
	5720	-50.89	-13	-37.89	-69.56	-58.64	3.50	13.40	V
	6536	-53.13	-13	-40.13	-74.33	-59.52	3.76	12.30	V
	7352	-47.53	-13	-34.53	-71.2	-52.41	3.97	11.01	V
									V



Highest	1640	-58.33	-13	-45.33	-64.88	-63.57	1.83	9.22	H
	2456	-51.59	-13	-38.59	-62.13	-57.74	2.24	10.54	H
	3280	-58.64	-13	-45.64	-71.3	-66.10	2.61	12.22	H
	4096	-53.62	-13	-40.62	-68.05	-61.28	2.89	12.70	H
	4912	-47.16	-13	-34.16	-63.81	-54.47	3.24	12.70	H
	5736	-53.93	-13	-40.93	-72.46	-61.67	3.51	13.40	H
	6552	-55.95	-13	-42.95	-76.78	-62.33	3.77	12.30	H
	7376	-51.32	-13	-38.32	-74.63	-56.30	3.98	11.10	H
	8193	-53.89	-13	-40.89	-77.66	-58.97	4.23	11.46	H
	1640	-56.86	-13	-43.86	-63.86	-62.10	1.83	9.22	V
	2456	-54.13	-13	-41.13	-65.01	-60.28	2.24	10.54	V
	3280	-58.91	-13	-45.91	-71.98	-66.37	2.61	12.22	V
	4096	-55.14	-13	-42.14	-70.08	-62.80	2.89	12.70	V
	4912	-44.68	-13	-31.68	-61.94	-51.99	3.24	12.70	V
	5736	-50.57	-13	-37.57	-69.33	-58.31	3.51	13.40	V
	6552	-53.59	-13	-40.59	-74.9	-59.97	3.77	12.30	V
	7376	-48.12	-13	-35.12	-71.9	-53.10	3.98	11.10	V
	8192	-52.35	-13	-39.35	-76.96	-57.43	4.23	11.45	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)	
CH26790 (824MHz)	1635	-58.87	-13	-45.87	-65.39	-64.07	1.83	9.18	H	
	2452	-54.96	-13	-41.96	-65.47	-61.08	2.24	10.51	H	
	3269	-62.51	-13	-49.51	-75.2	-69.93	2.61	12.18	H	
	4087	-58.43	-13	-45.43	-72.83	-66.09	2.89	12.70	H	
	4904	-54.58	-13	-41.58	-71.22	-61.89	3.24	12.70	H	
	5721	-57.67	-13	-44.67	-76.11	-65.42	3.50	13.40	H	
	6539	-55.93	-13	-42.93	-76.73	-62.32	3.76	12.30	H	
										H
	1635	-61.46	-13	-48.46	-68.44	-66.66	1.83	9.18	V	
	2452	-57.81	-13	-44.81	-68.69	-63.93	2.24	10.51	V	
	3269	-61.20	-13	-48.20	-74.3	-68.62	2.61	12.18	V	
	4087	-57.53	-13	-44.53	-72.44	-65.19	2.89	12.70	V	
	4904	-51.71	-13	-38.71	-68.95	-59.02	3.24	12.70	V	
	5721	-54.84	-13	-41.84	-73.51	-62.59	3.50	13.40	V	
	6539	-53.41	-13	-40.41	-74.63	-59.80	3.76	12.30	V	
										V

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