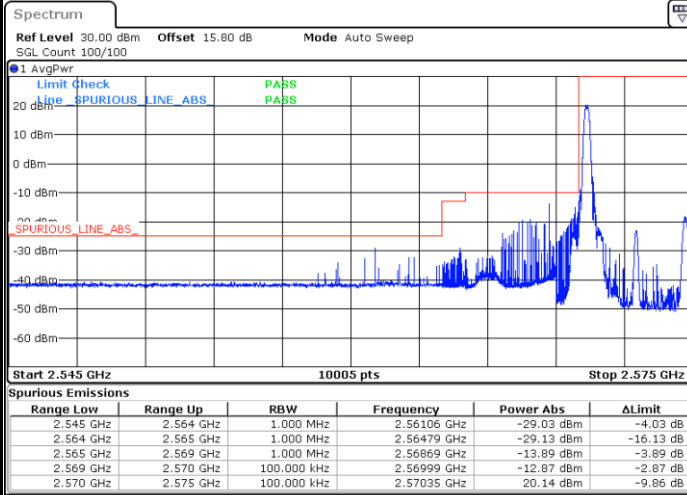




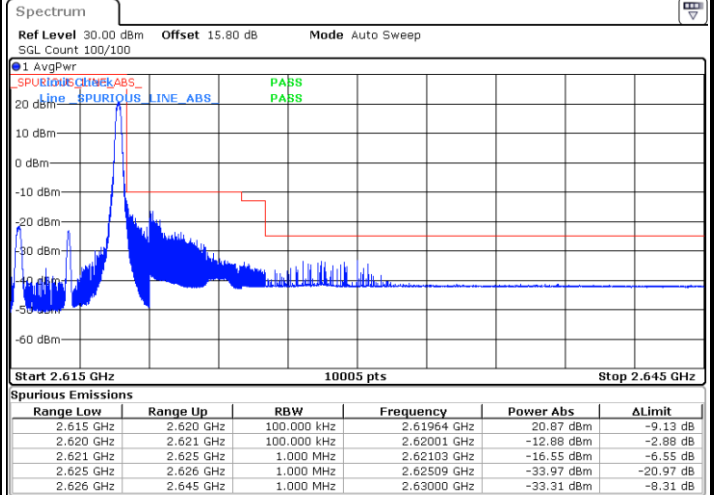
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



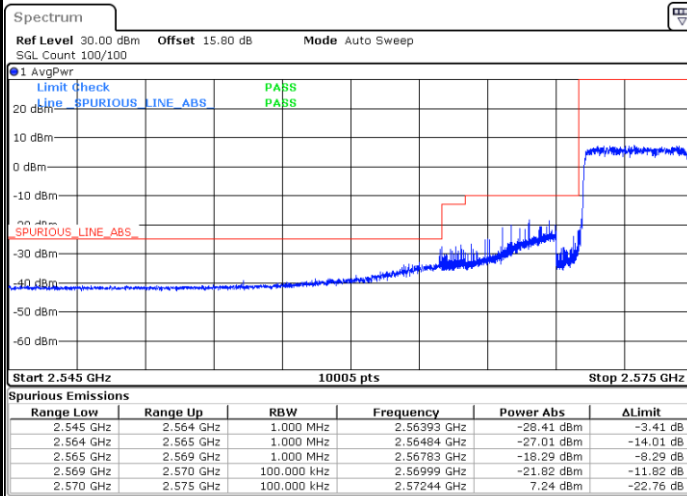
Date: 1.NOV.2021 08:26:56

Highest Band Edge / 1 RB



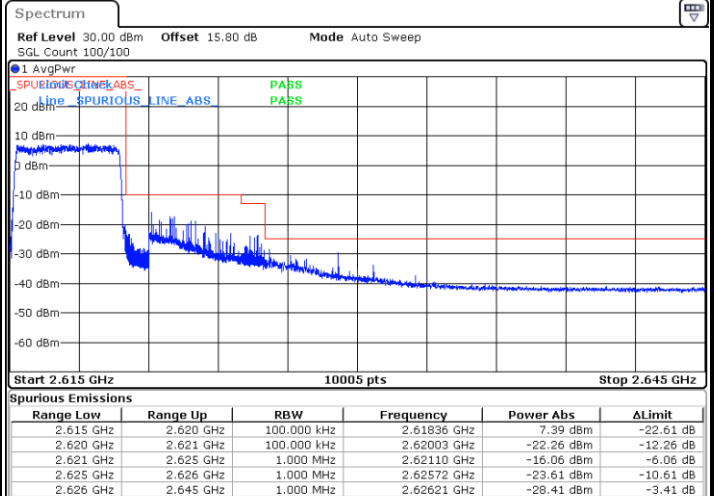
Date: 1.NOV.2021 09:32:41

Lowest Band Edge / Full RB



Date: 1.NOV.2021 08:28:18

Highest Band Edge / Full RB

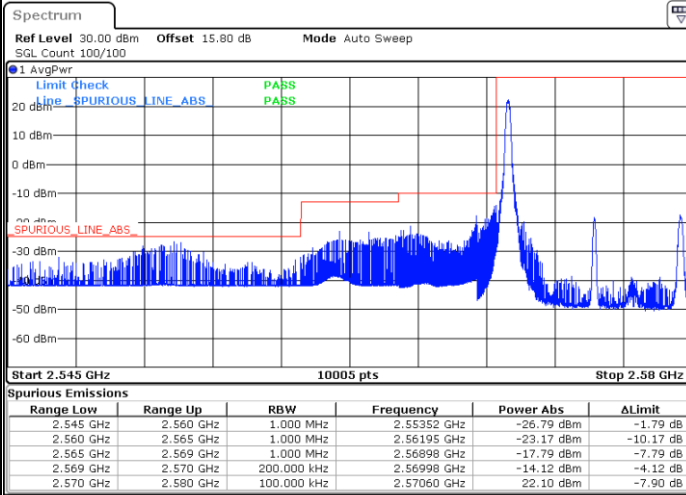


Date: 1.NOV.2021 08:29:40



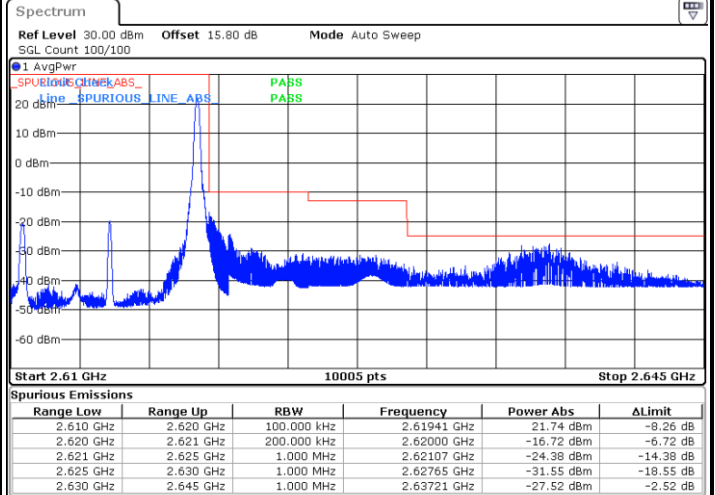
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / 1 RB



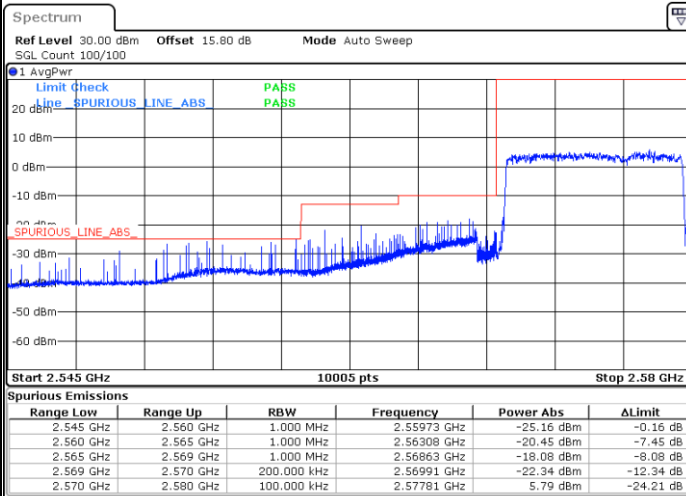
Date: 1.NOV.2021 09:31:11

Highest Band Edge / 1 RB



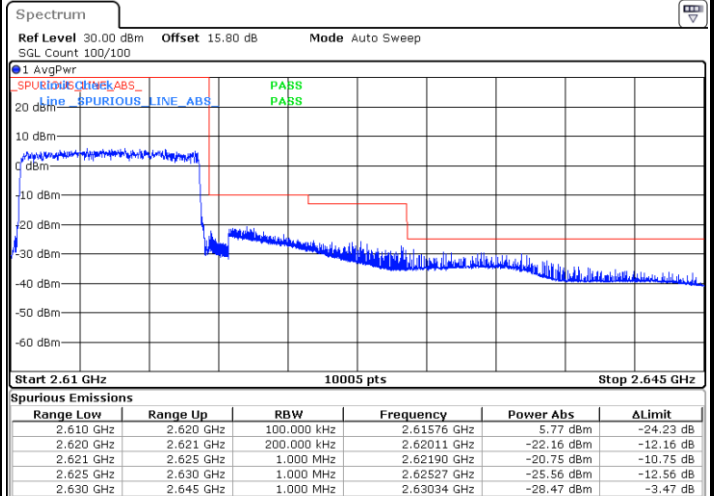
Date: 1.NOV.2021 09:26:06

Lowest Band Edge / Full RB



Date: 1.NOV.2021 08:33:05

Highest Band Edge / Full RB



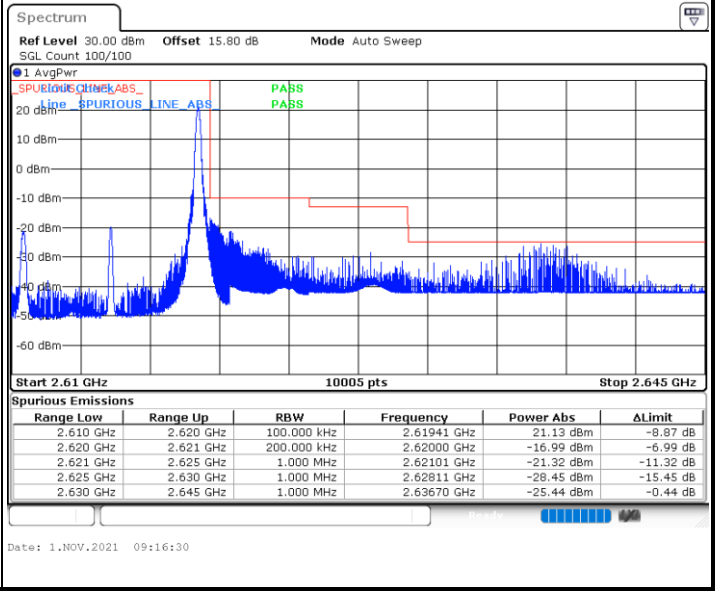
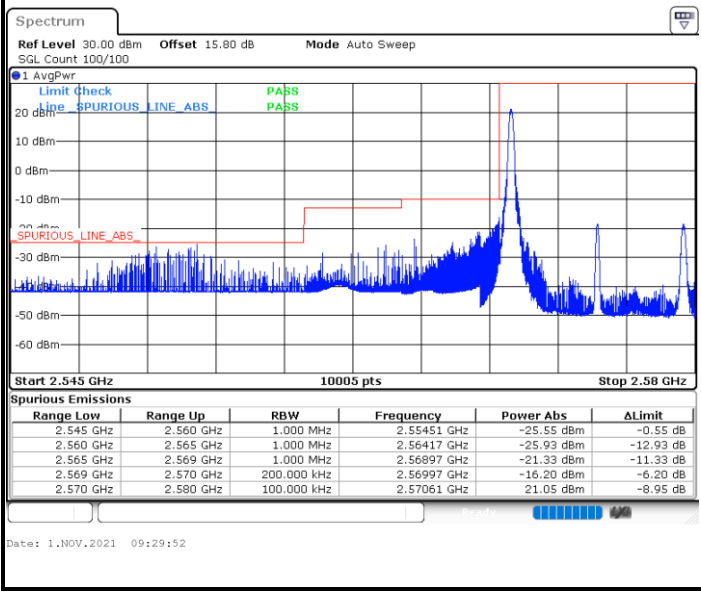
Date: 1.NOV.2021 09:28:14



LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

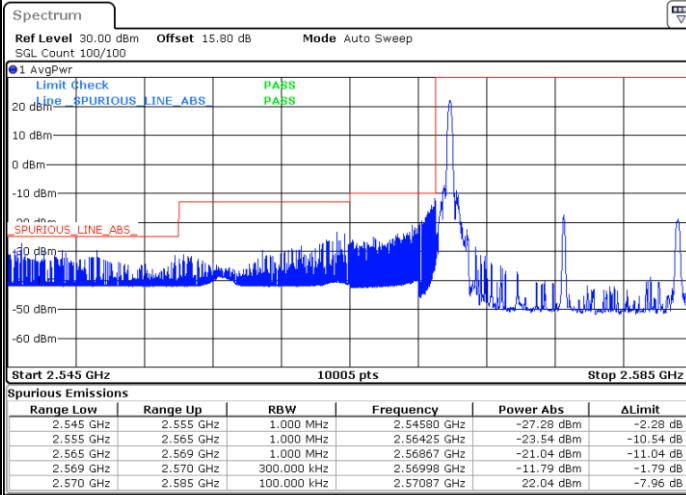
Highest Band Edge / 1 RB





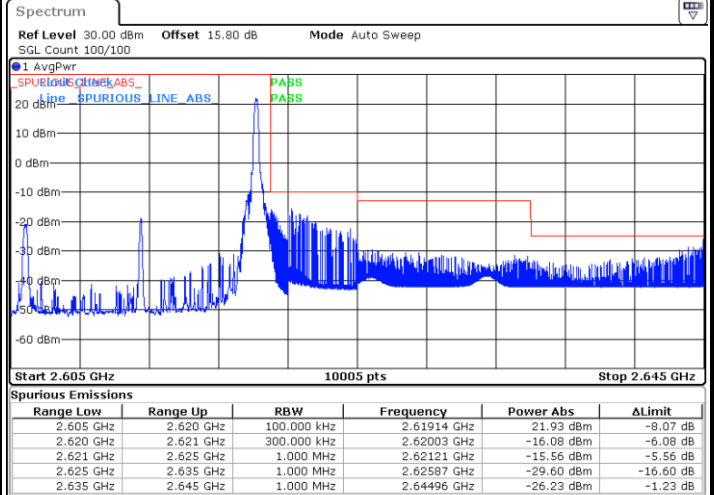
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



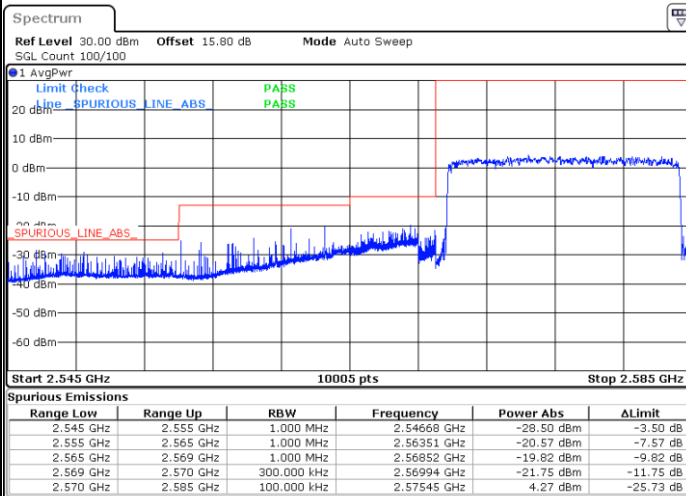
Date: 1.NOV.2021 09:12:33

Highest Band Edge / 1 RB



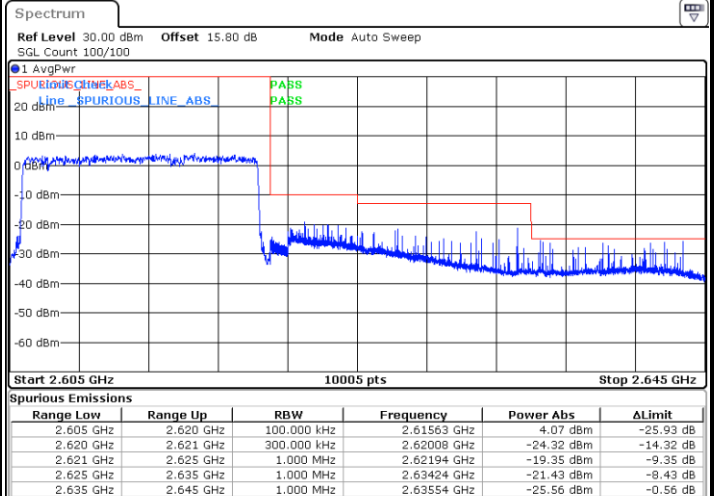
Date: 1.NOV.2021 09:08:29

Lowest Band Edge / Full RB



Date: 1.NOV.2021 09:11:14

Highest Band Edge / Full RB



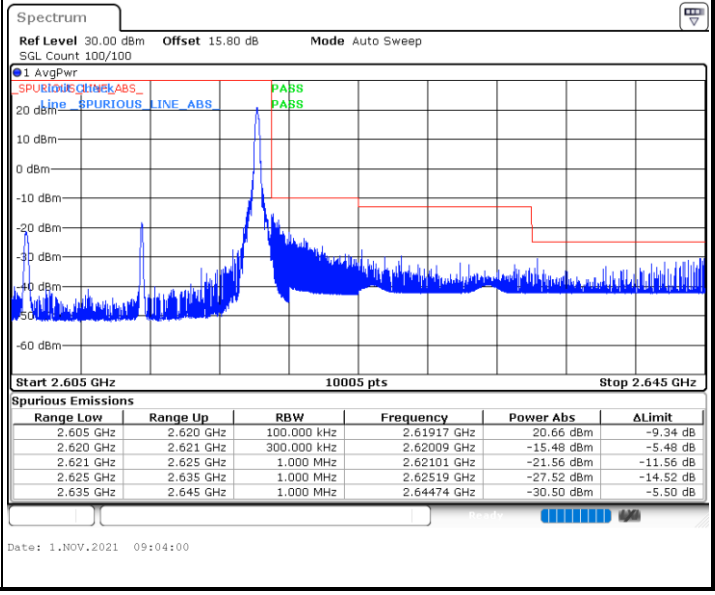
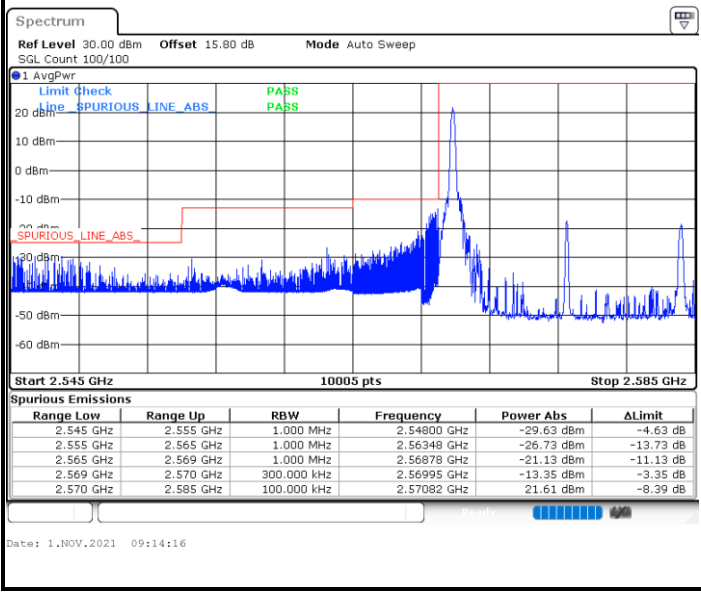
Date: 1.NOV.2021 09:09:38



LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

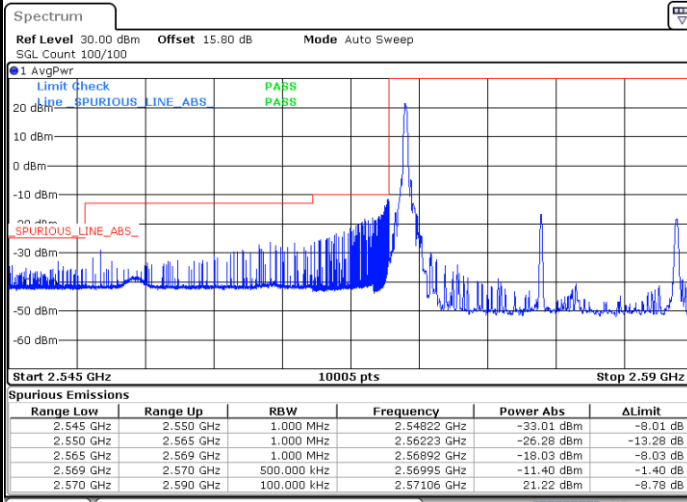
Highest Band Edge / 1 RB





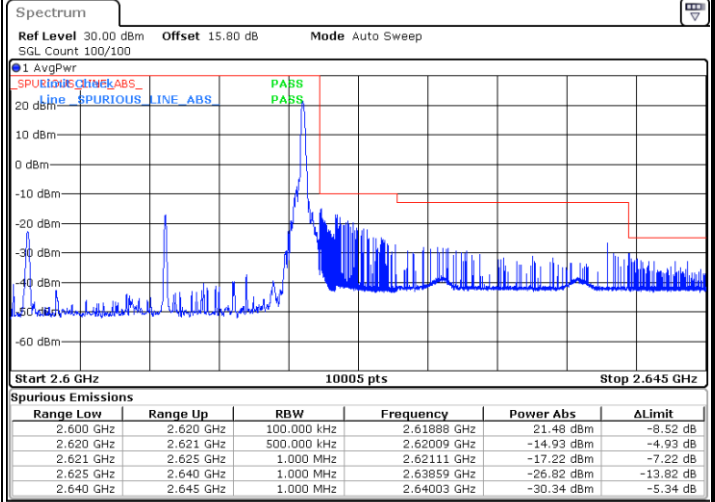
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB



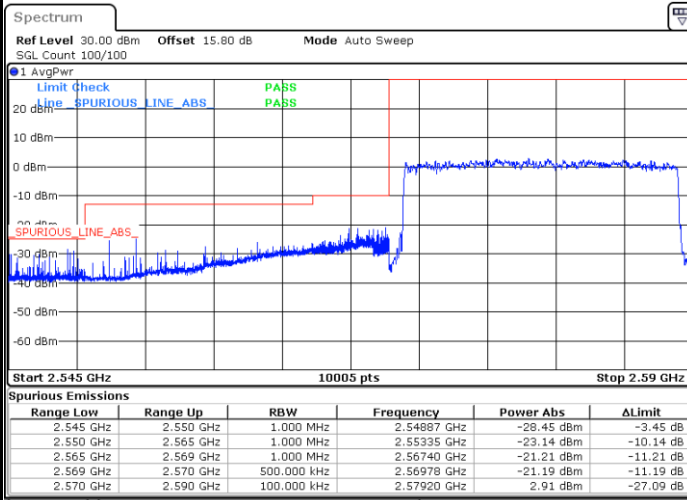
Date: 1.NOV.2021 08:39:54

Highest Band Edge / 1 RB



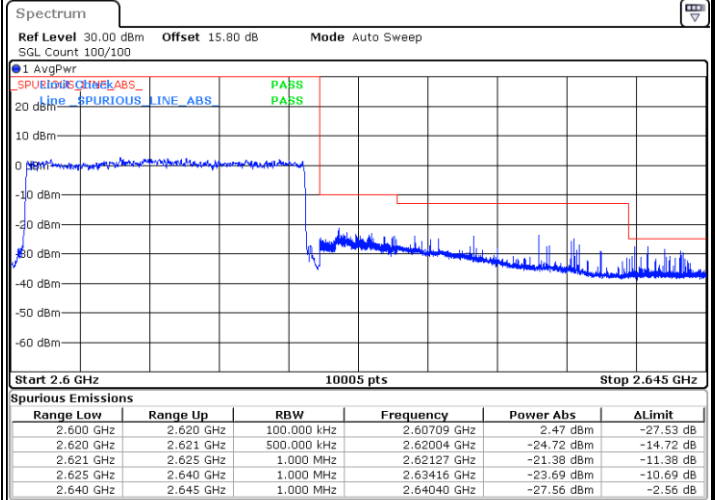
Date: 1.NOV.2021 08:42:38

Lowest Band Edge / Full RB



Date: 1.NOV.2021 08:41:16

Highest Band Edge / Full RB



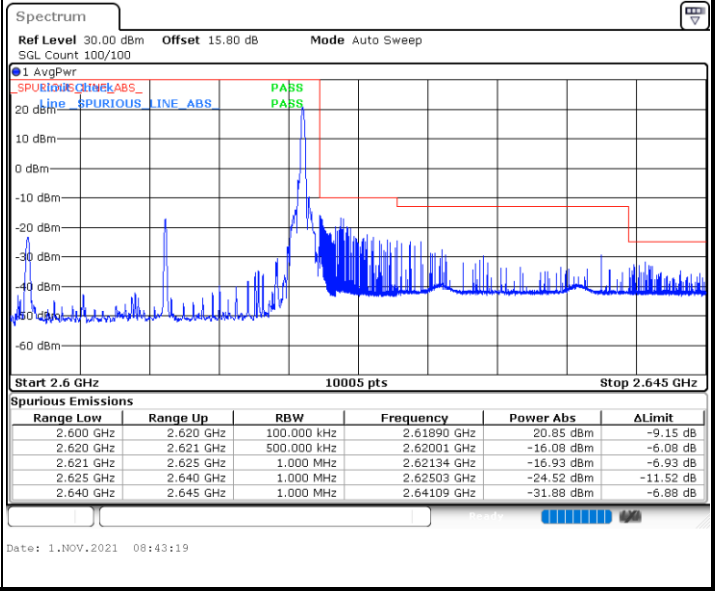
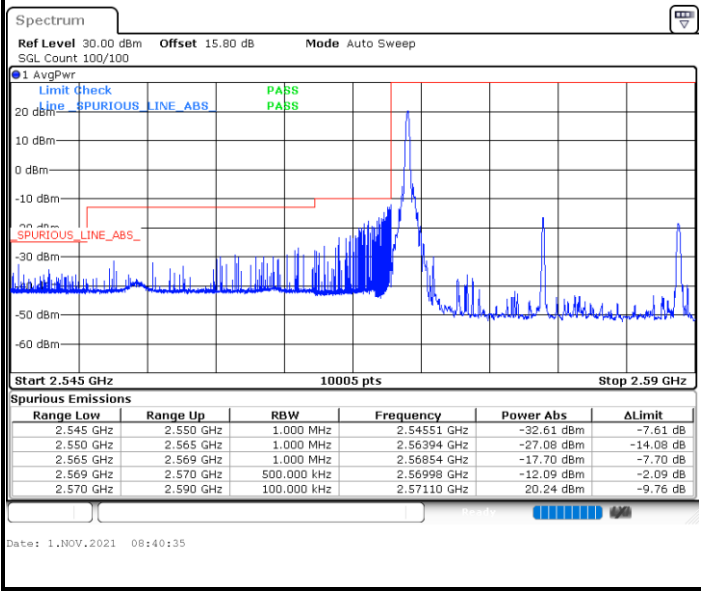
Date: 1.NOV.2021 08:41:57



LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



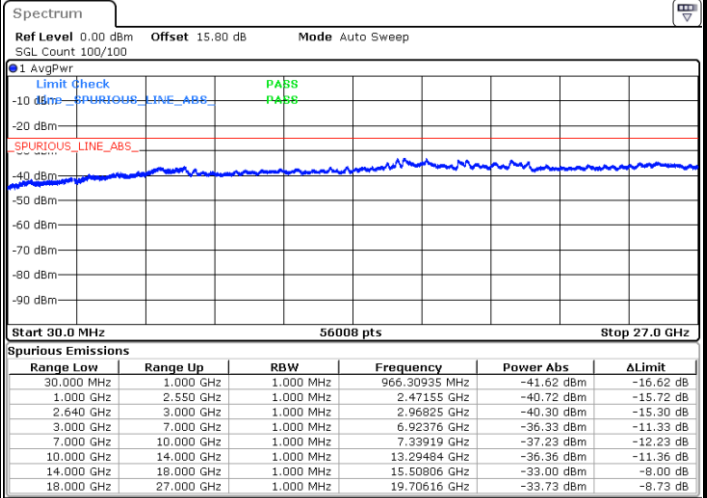
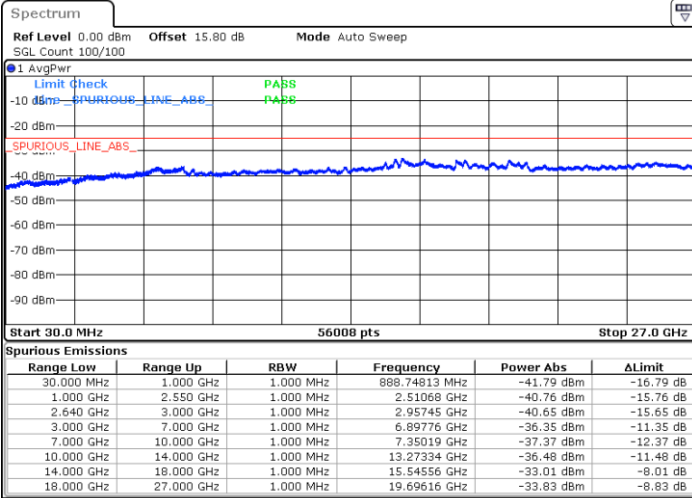


# Conducted Spurious Emission

## LTE Band 38 / 5MHz

### Lowest Channel / QPSK

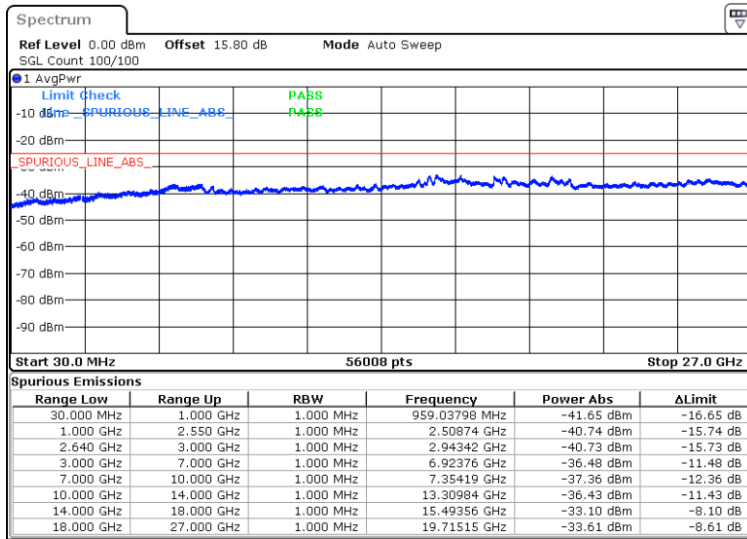
### Middle Channel / QPSK



Date: 1.NOV.2021 09:36:37

Date: 1.NOV.2021 09:37:48

### Highest Channel / QPSK



Date: 1.NOV.2021 09:38:58

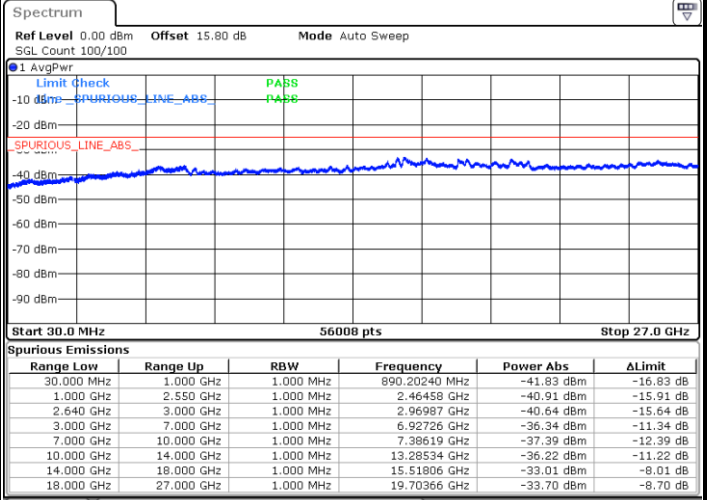
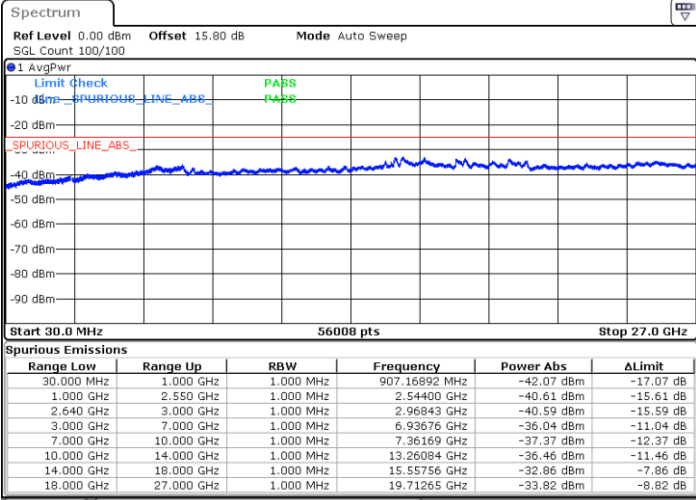




LTE Band 38 / 10MHz

Lowest Channel / QPSK

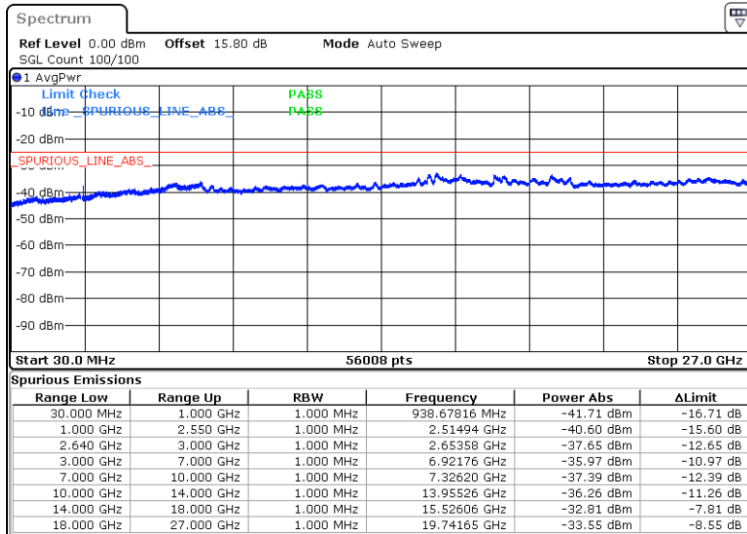
Middle Channel / QPSK



Date: 1.NOV.2021 09:40:09

Date: 1.NOV.2021 09:41:20

Highest Channel / QPSK



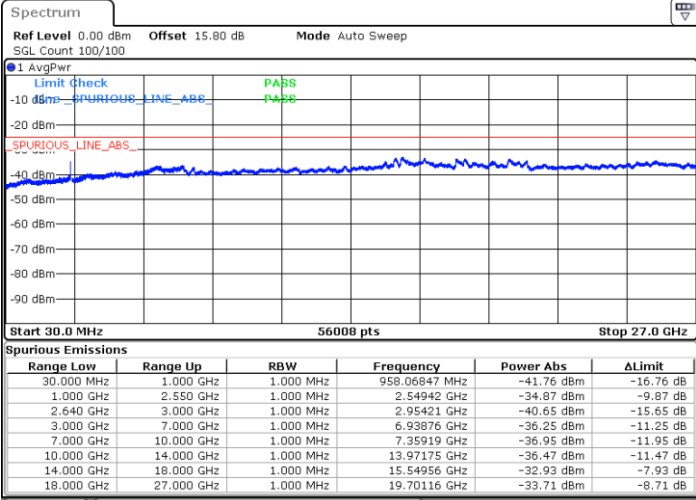
Date: 1.NOV.2021 09:42:31



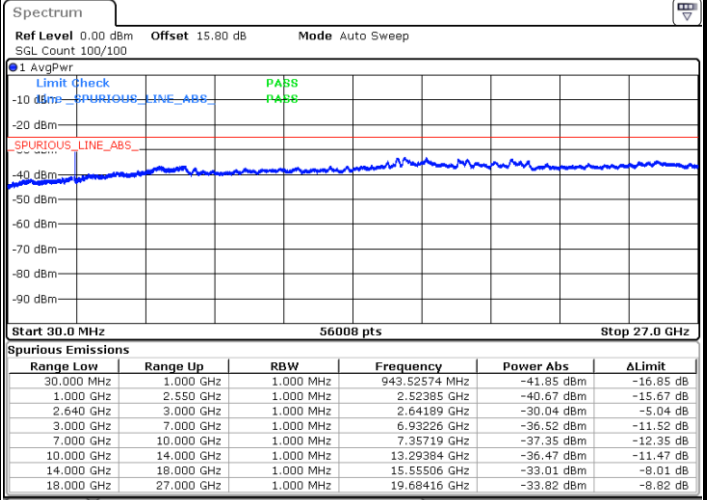
LTE Band 38 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

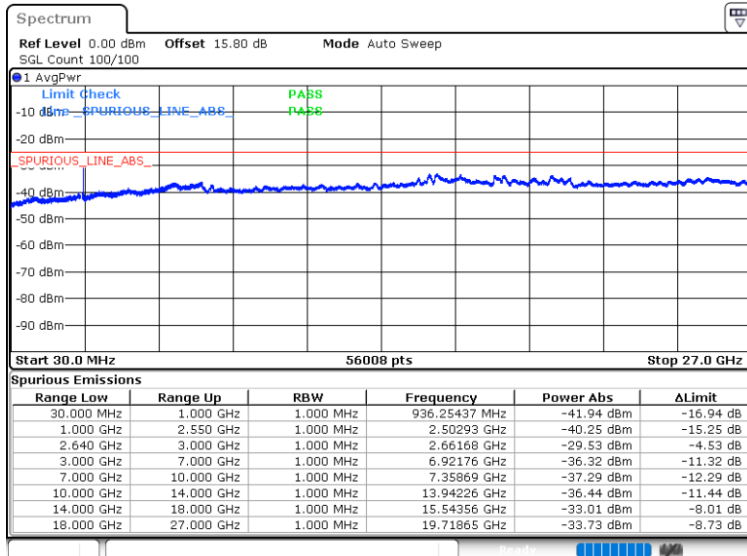


Date: 1.NOV.2021 09:43:43



Date: 1.NOV.2021 09:44:54

Highest Channel / QPSK



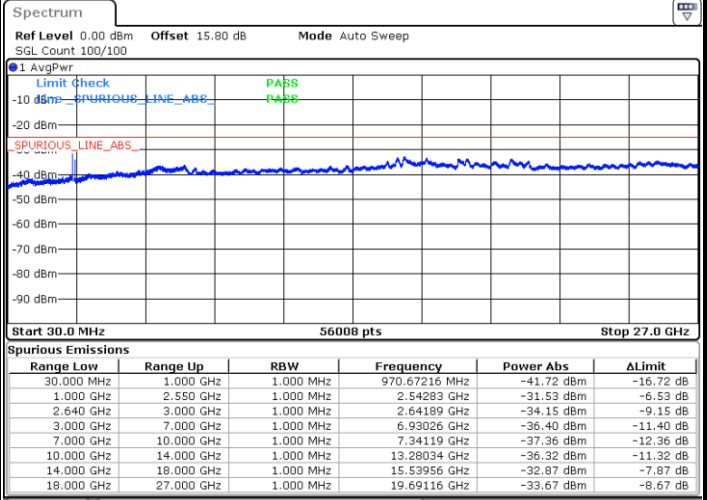
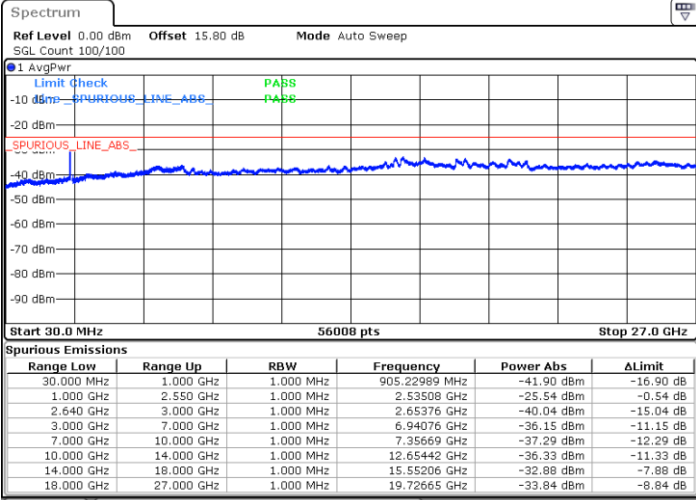
Date: 1.NOV.2021 09:46:04



LTE Band 38 / 20MHz

Lowest Channel / QPSK

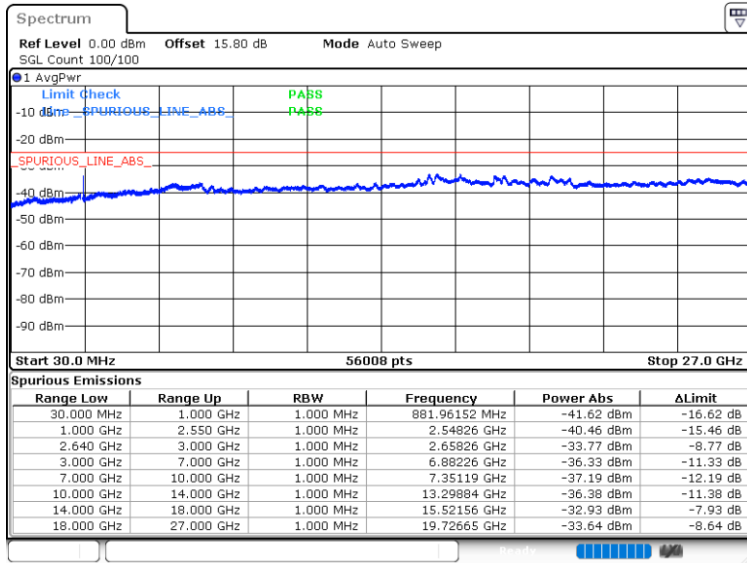
Middle Channel / QPSK



Date: 1.NOV.2021 09:47:16

Date: 1.NOV.2021 09:48:26

Highest Channel / QPSK



Date: 1.NOV.2021 09:49:37



### Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0044	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

**Note:**

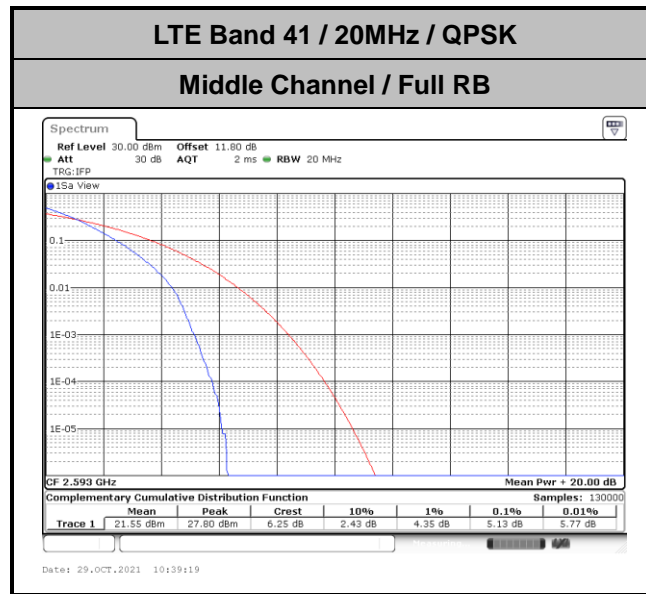
- 1. Normal Voltage =12.00 V. ; Battery End Point (BEP) =8.00 V. ; Maximum Voltage =40.00 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41

## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz	
Mod.	QPSK	Limit: 13dB
RB Size	Full RB	Result
Middle CH	5.13	PASS





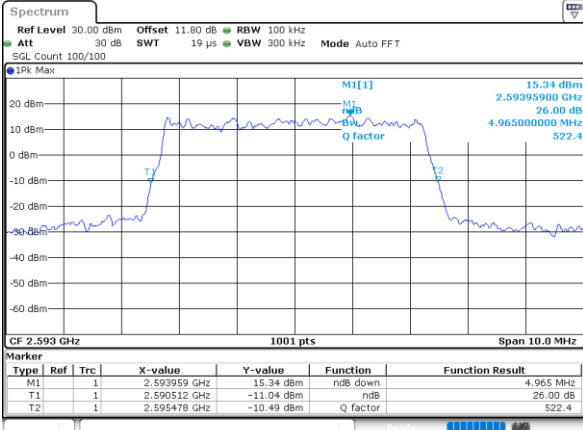
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.97	4.85	9.61	-	14.12	-	18.82	-
Mode	LTE Band 41 : 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	-	-	-	-	-	-	-	-	-	-	-	-



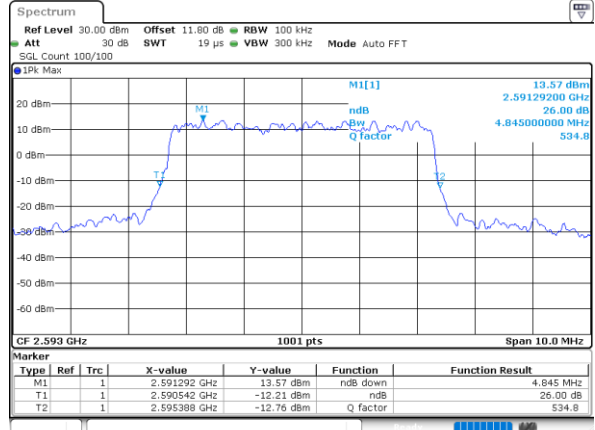
LTE Band 41

Middle Channel / 5MHz / QPSK



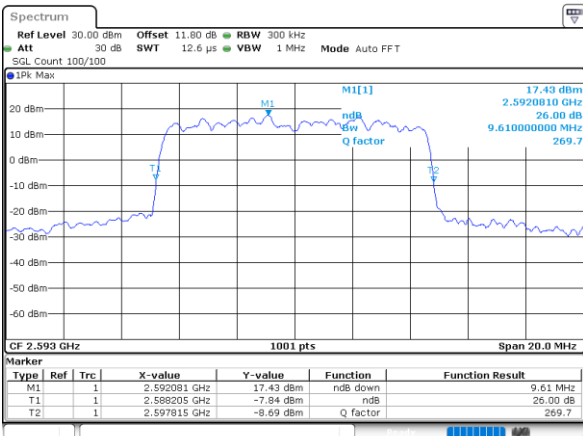
Date: 29.OCT.2021 10:35:59

Middle Channel / 5MHz / 16QAM



Date: 29.OCT.2021 10:36:20

Middle Channel / 10MHz / QPSK

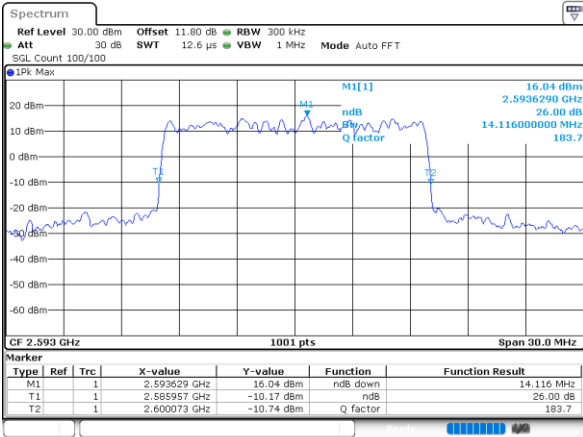


Date: 29.OCT.2021 10:37:03

Middle Channel / 10MHz / 16QAM

Left Blank

Middle Channel / 15MHz / QPSK



Date: 29.OCT.2021 10:37:45

Middle Channel / 15MHz / 16QAM

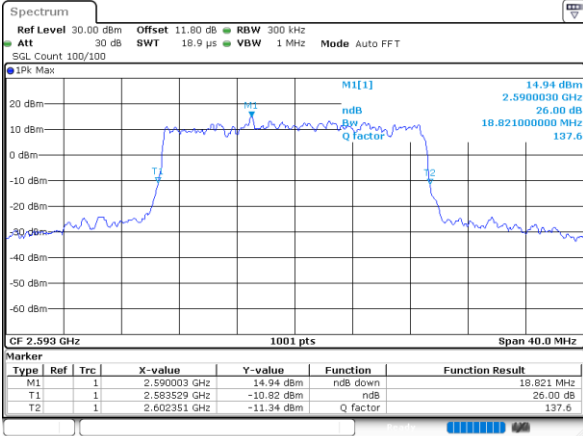
Left Blank



LTE Band 41

Middle Channel / 20MHz / QPSK

Middle Channel / 20MHz / 16QAM



Left Blank

Date: 29.OCT.2021 10:38:28





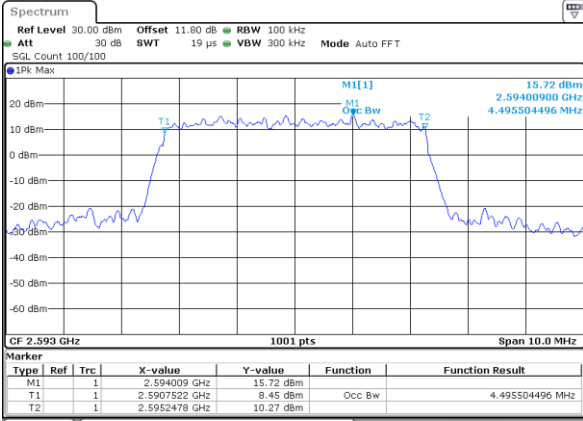
**Occupied Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.50	4.49	9.01	-	13.46	-	17.82	-
Mode	LTE Band 41 : 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	-	-	-	-	-	-	-	-	-	-	-	-



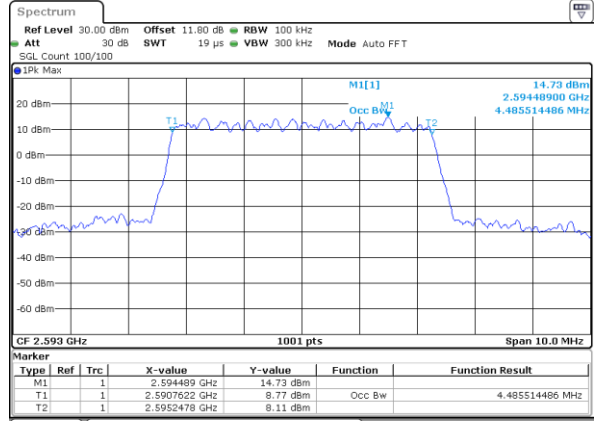
LTE Band 41

Middle Channel / 5MHz / QPSK



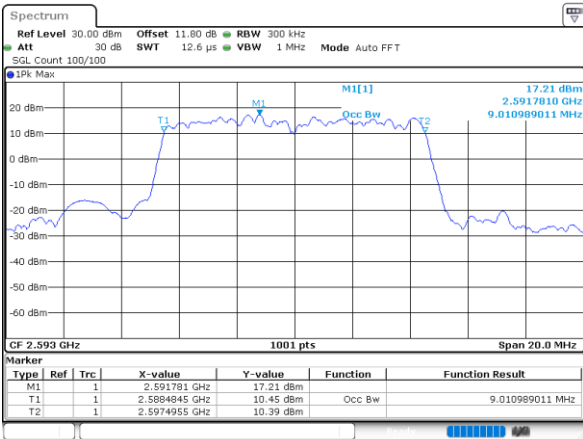
Date: 29.OCT.2021 10:35:17

Middle Channel / 5MHz / 16QAM



Date: 29.OCT.2021 10:35:38

Middle Channel / 10MHz / QPSK

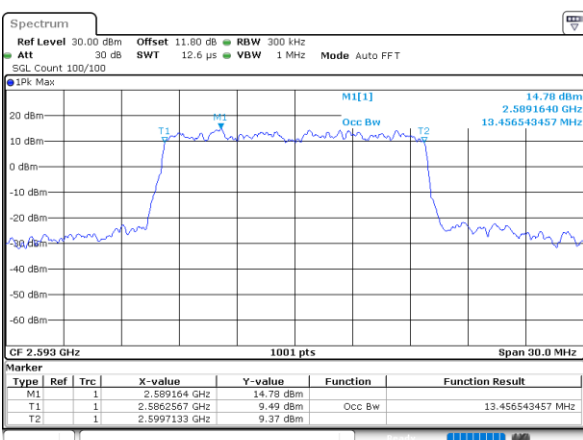


Date: 29.OCT.2021 10:36:42

Middle Channel / 10MHz / 16QAM

Left Blank

Middle Channel / 15MHz / QPSK



Date: 29.OCT.2021 10:37:24

Middle Channel / 15MHz / 16QAM

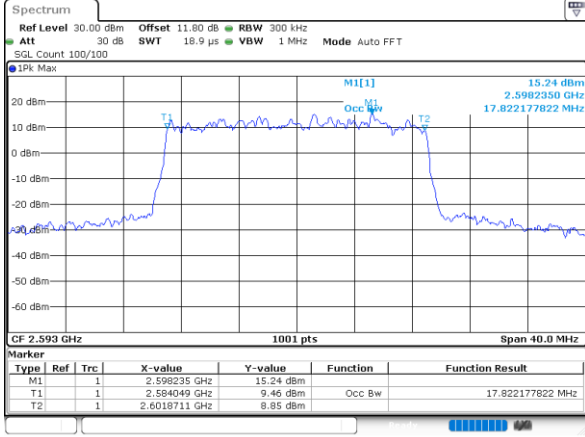
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LTE Band 41

Middle Channel / 20MHz / QPSK

Middle Channel / 20MHz / 16QAM



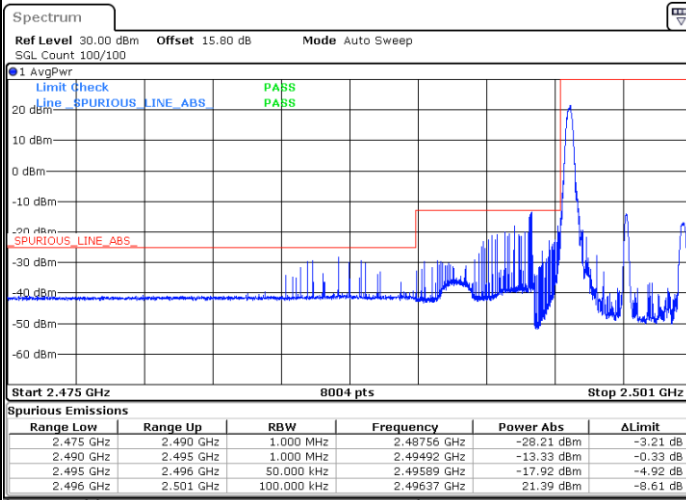
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# Conducted Band Edge

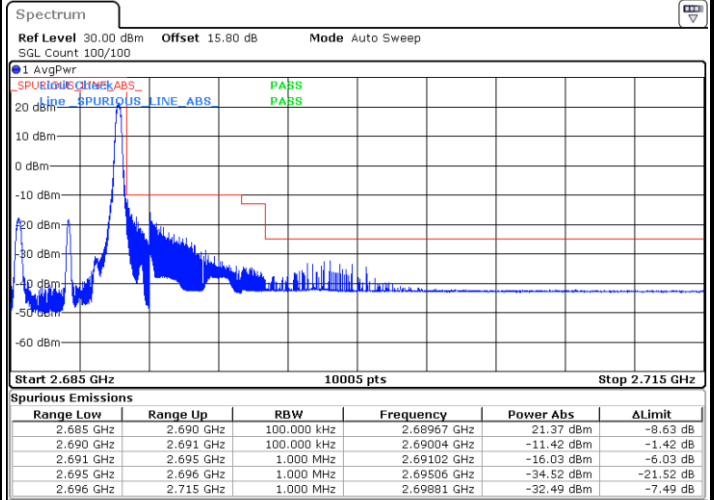
## LTE Band 41 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



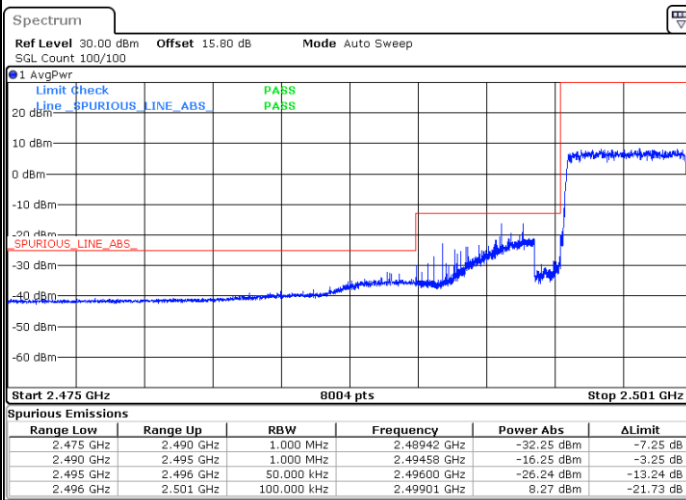
Date: 29.OCT.2021 09:42:14

### Highest Band Edge / 1 RB



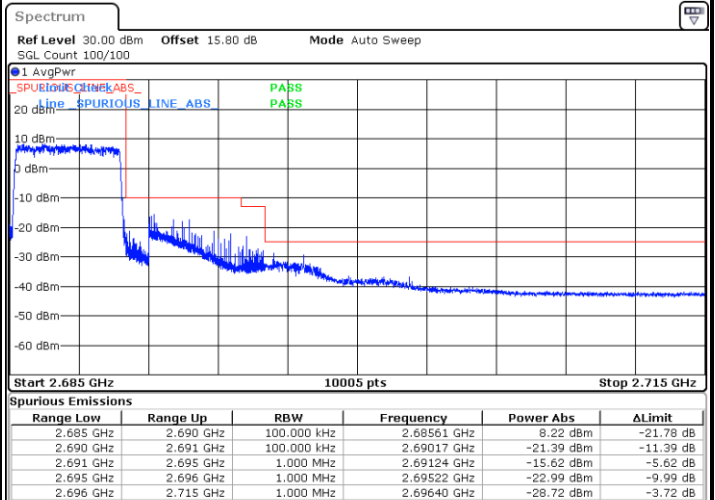
Date: 29.OCT.2021 10:31:39

### Lowest Band Edge / Full RB



Date: 29.OCT.2021 09:43:35

### Highest Band Edge / Full RB

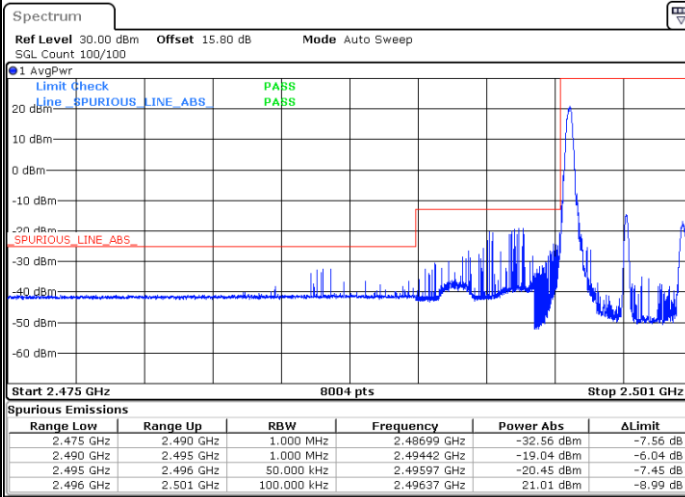


Date: 29.OCT.2021 09:46:17



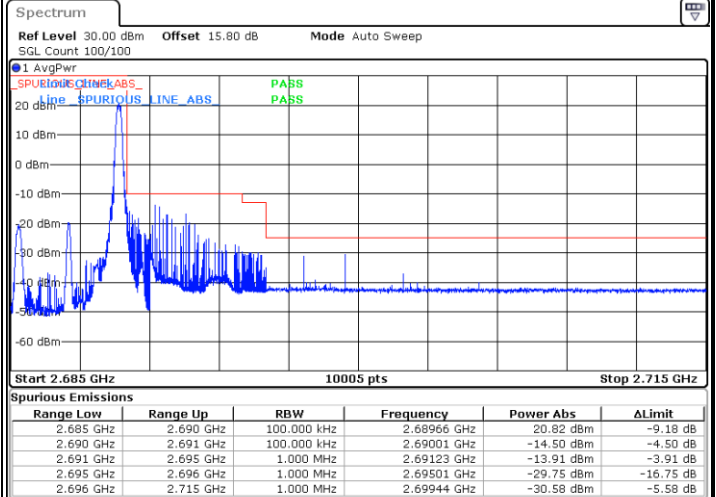
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



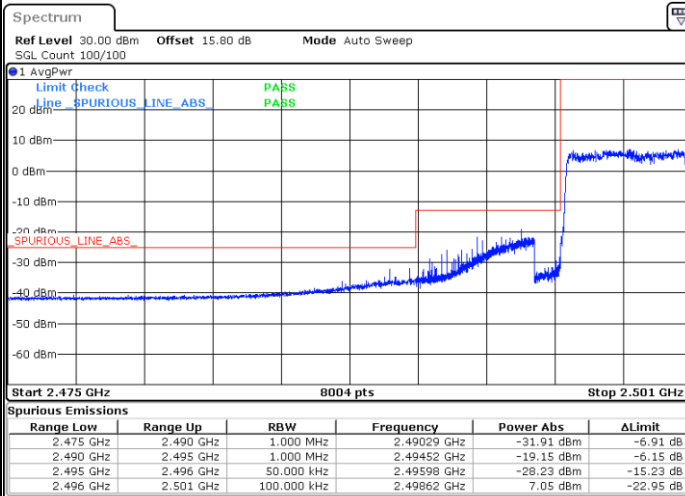
Date: 29.OCT.2021 09:42:55

Highest Band Edge / 1 RB



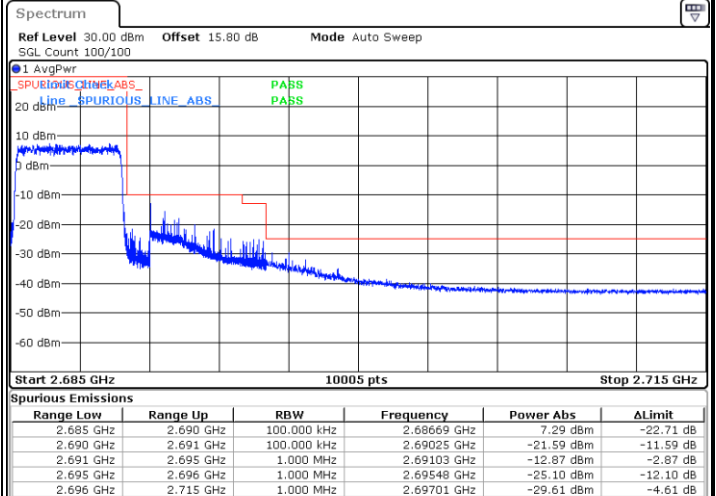
Date: 29.OCT.2021 09:45:37

Lowest Band Edge / Full RB



Date: 29.OCT.2021 09:44:16

Highest Band Edge / Full RB

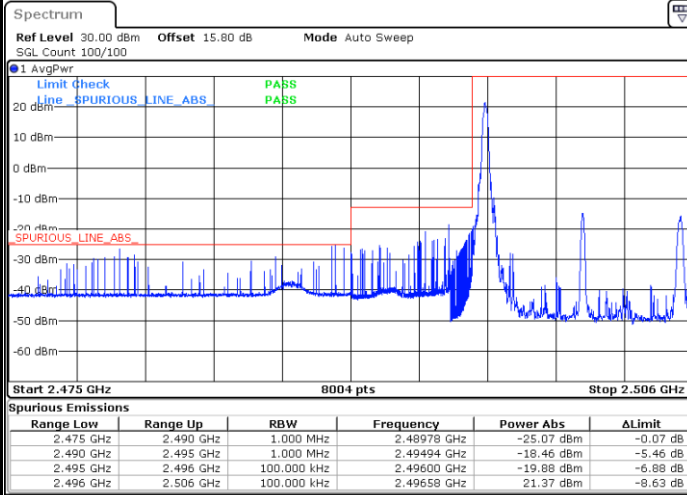


Date: 29.OCT.2021 09:46:58



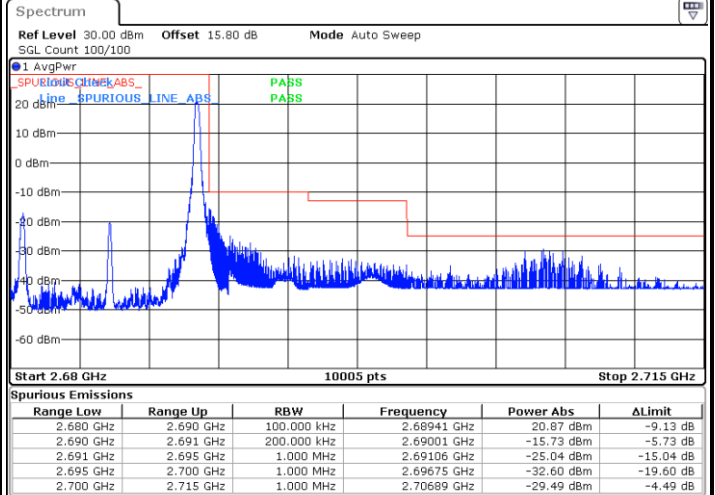
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



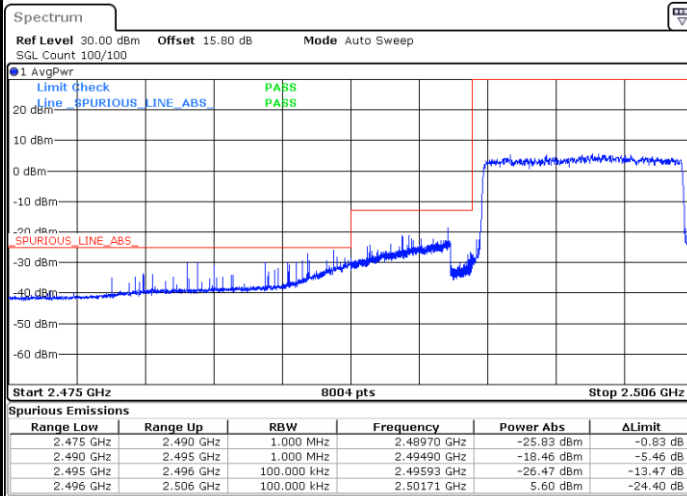
Date: 29.OCT.2021 09:47:39

Highest Band Edge / 1 RB



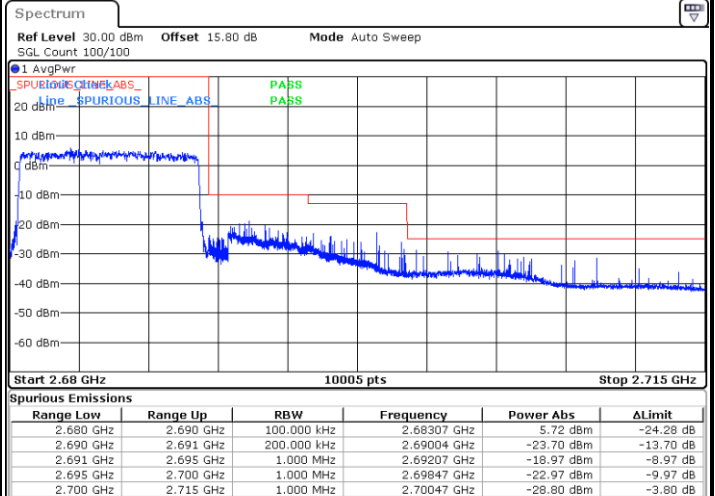
Date: 29.OCT.2021 10:29:25

Lowest Band Edge / Full RB



Date: 29.OCT.2021 09:49:00

Highest Band Edge / Full RB



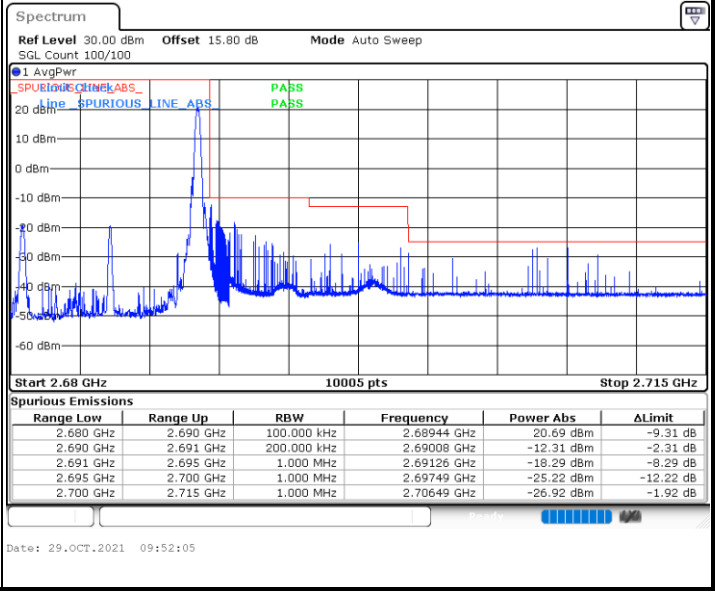
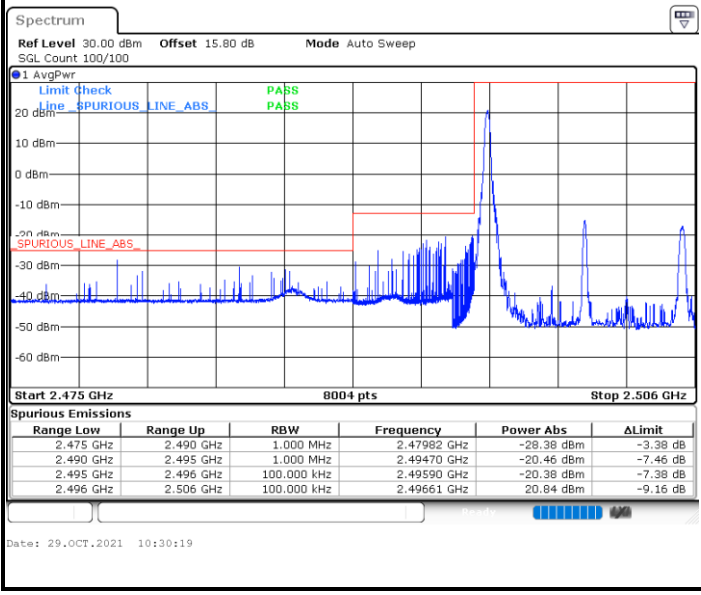
Date: 29.OCT.2021 09:52:46



LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

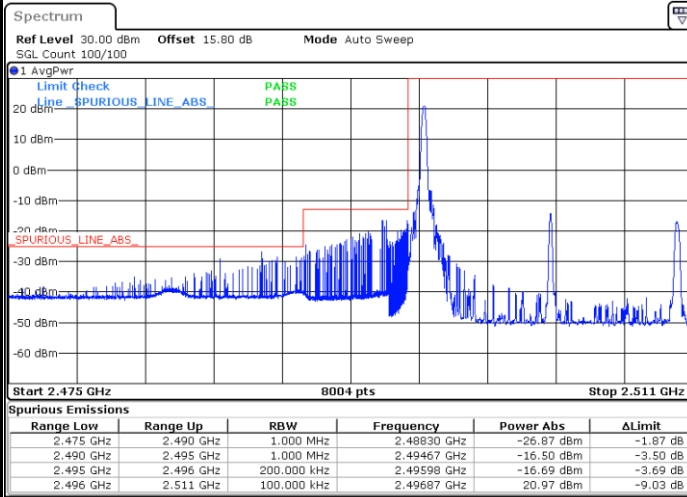
Highest Band Edge / 1 RB





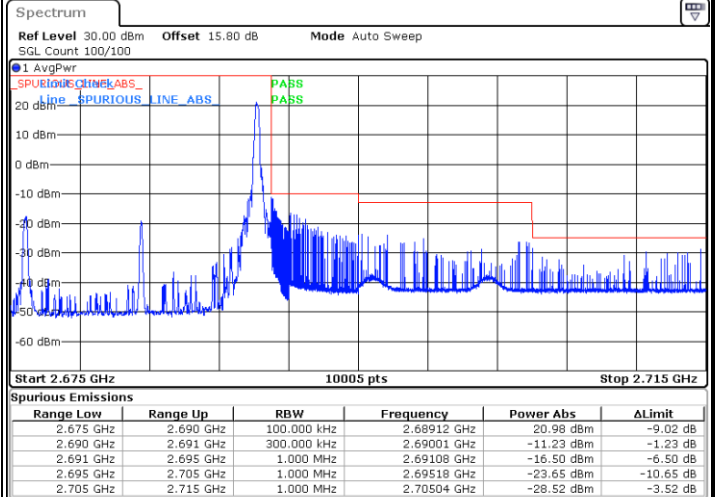
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



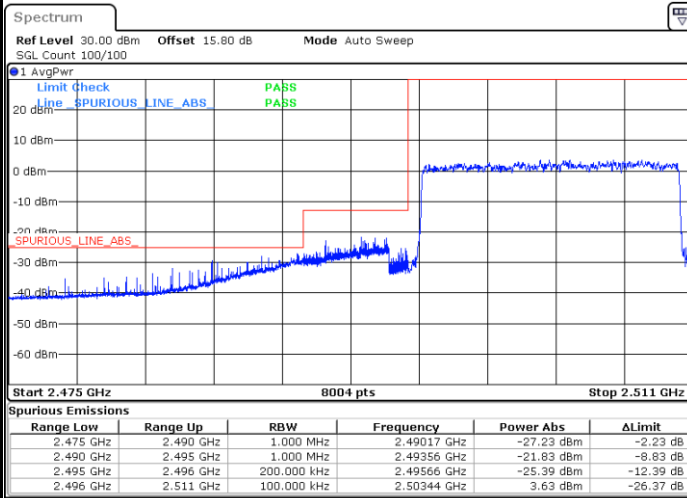
Date: 29.OCT.2021 09:54:57

Highest Band Edge / 1 RB



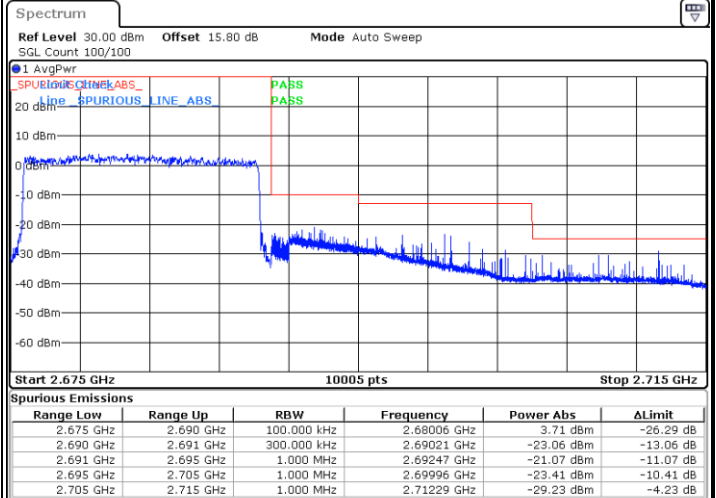
Date: 29.OCT.2021 09:56:58

Lowest Band Edge / Full RB



Date: 29.OCT.2021 09:56:18

Highest Band Edge / Full RB



Date: 29.OCT.2021 09:58:19

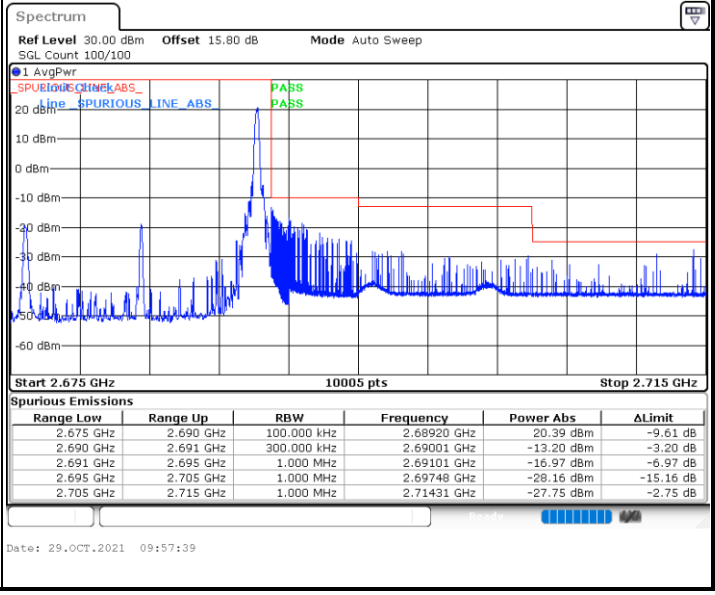
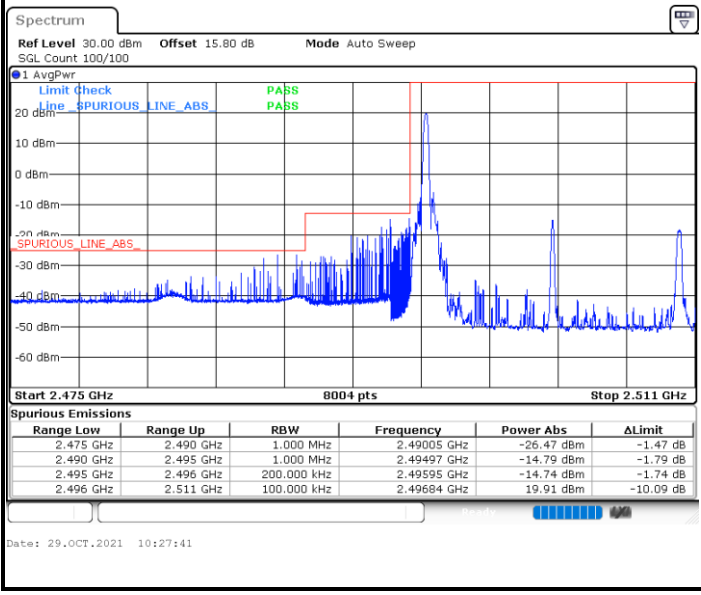




LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

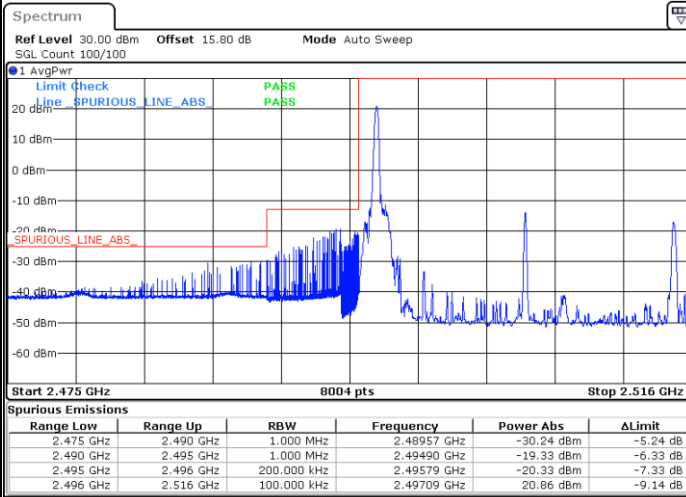
Highest Band Edge / 1 RB





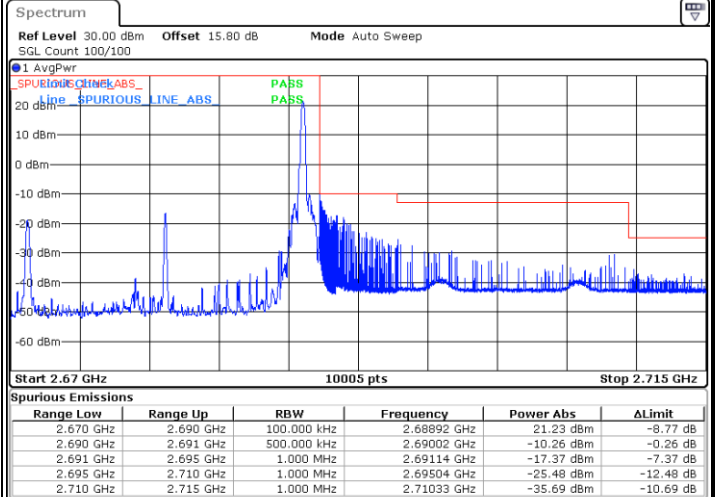
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



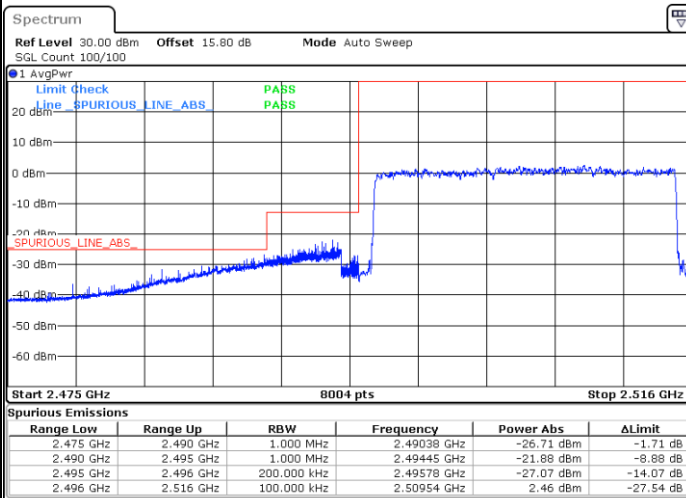
Date: 29.OCT.2021 09:59:00

Highest Band Edge / 1 RB



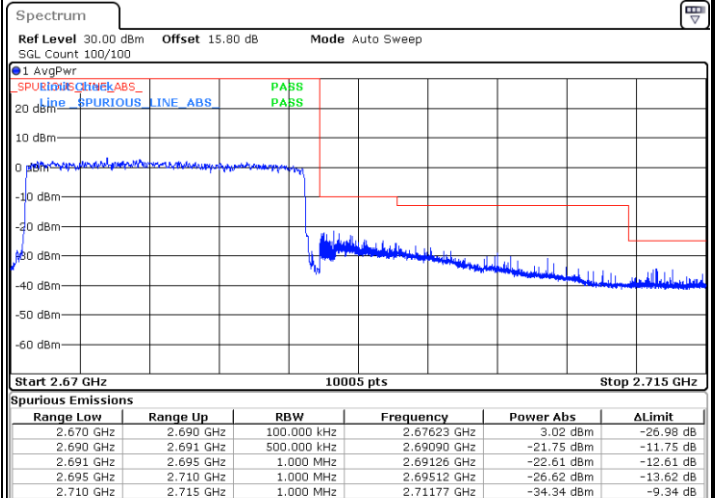
Date: 29.OCT.2021 10:01:02

Lowest Band Edge / Full RB



Date: 29.OCT.2021 10:00:21

Highest Band Edge / Full RB



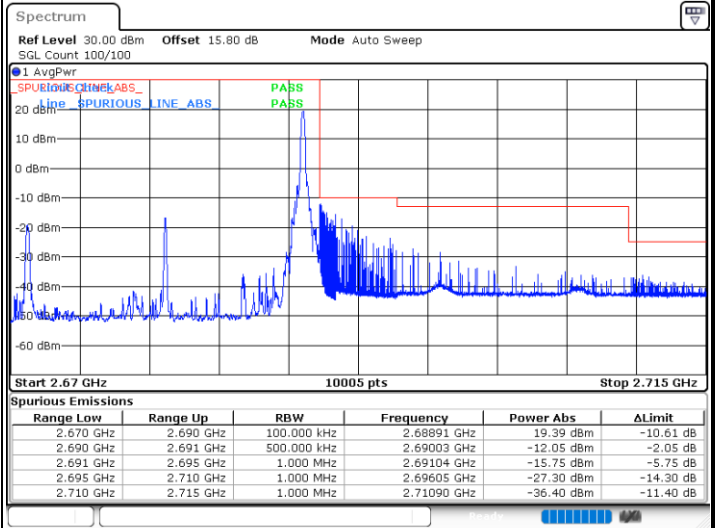
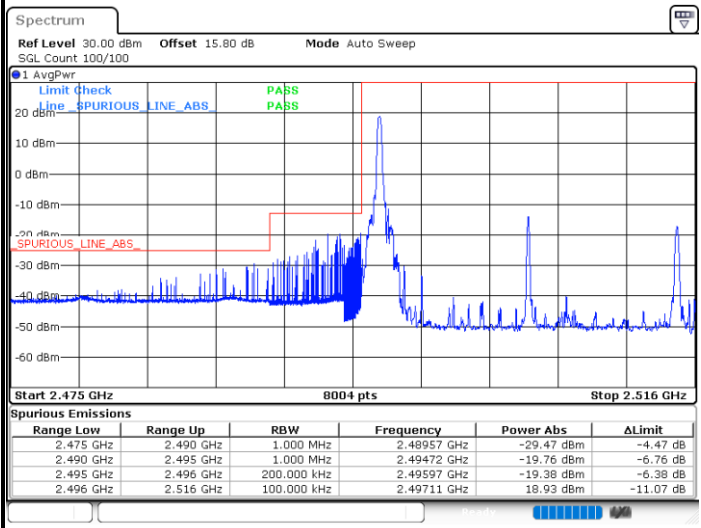
Date: 29.OCT.2021 10:02:23



LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Date: 29.OCT.2021 09:59:41

Date: 29.OCT.2021 10:01:42

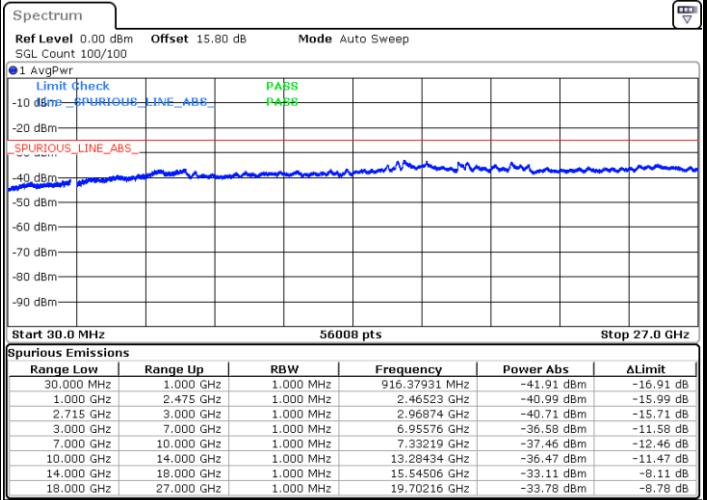
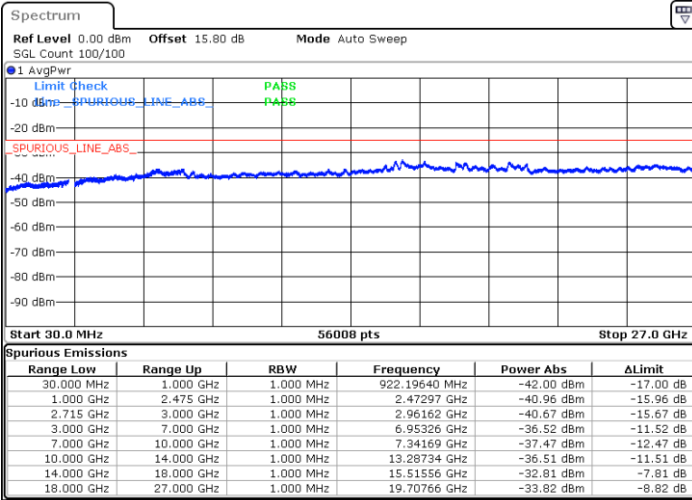


# Conducted Spurious Emission

## LTE Band 41 / 5MHz

### Lowest Channel / QPSK

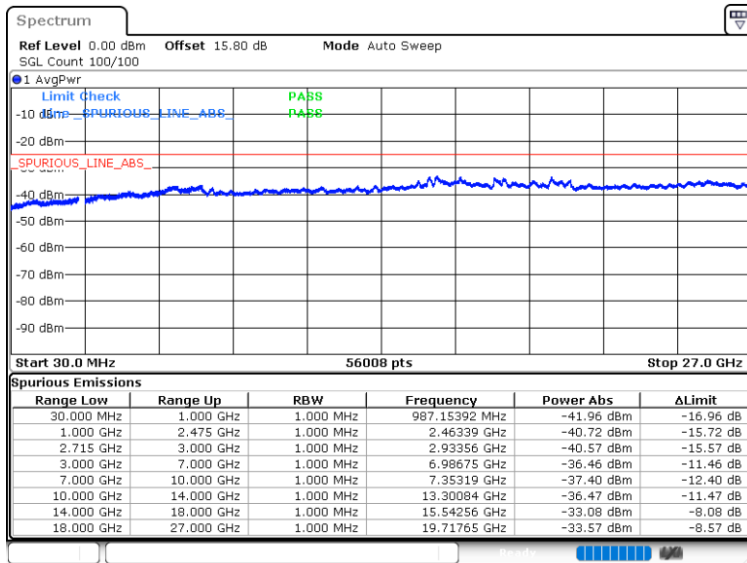
### Middle Channel / QPSK



Date: 29.OCT.2021 10:03:33

Date: 29.OCT.2021 10:04:44

### Highest Channel / QPSK



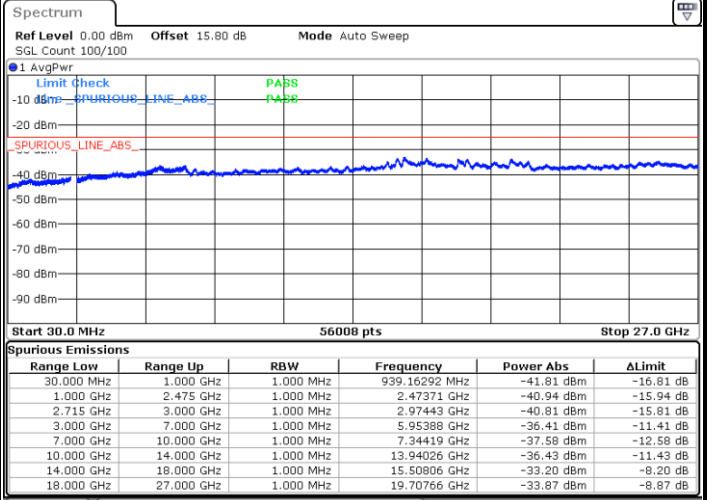
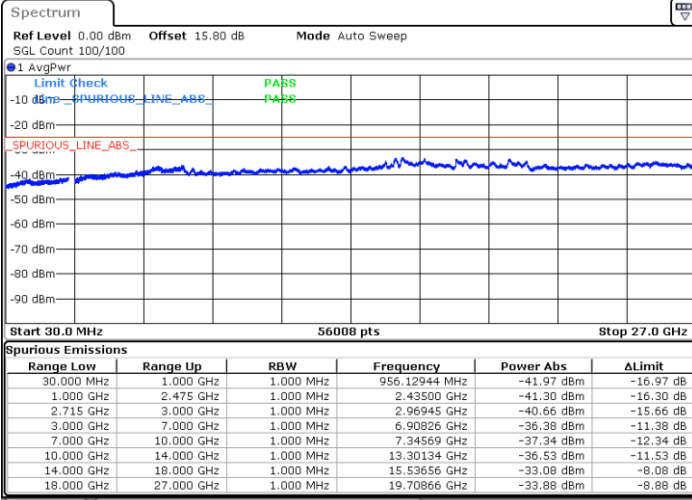
Date: 29.OCT.2021 10:05:54



LTE Band 41 / 10MHz

Lowest Channel / QPSK

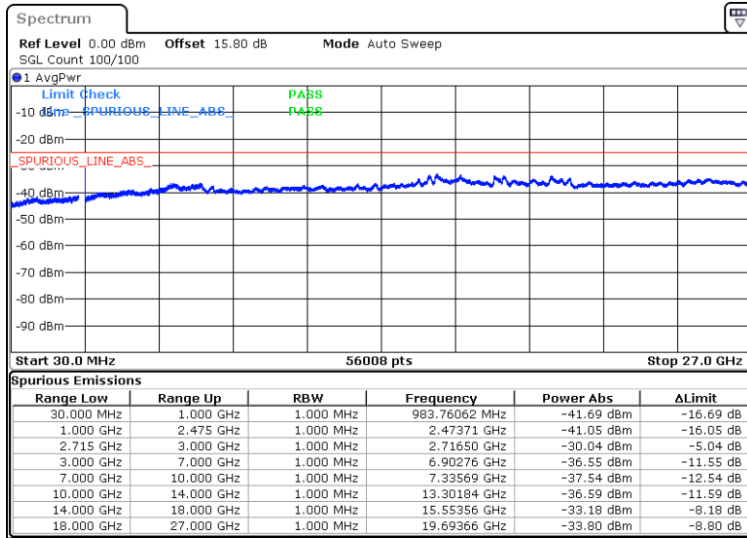
Middle Channel / QPSK



Date: 29.OCT.2021 10:07:06

Date: 29.OCT.2021 10:08:16

Highest Channel / QPSK



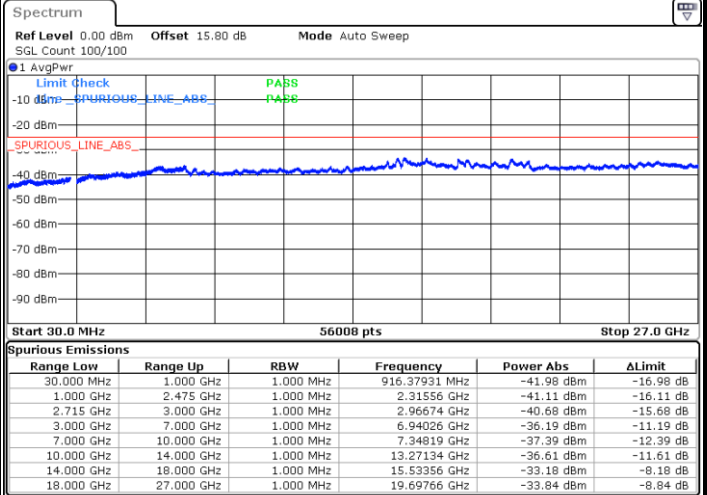
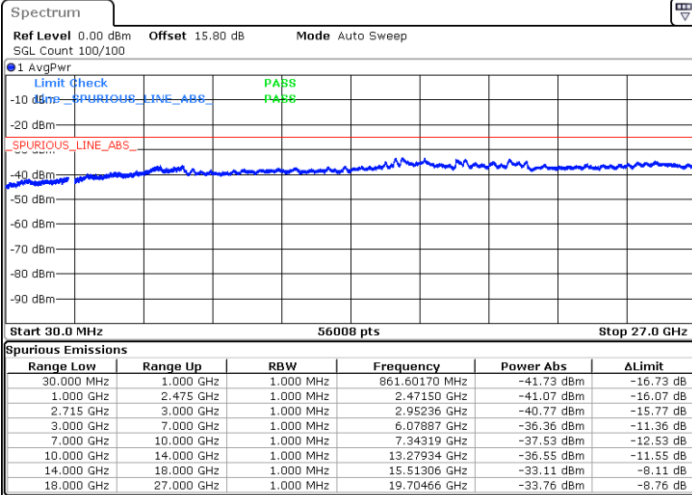
Date: 29.OCT.2021 10:09:27



LTE Band 41 / 15MHz

Lowest Channel / QPSK

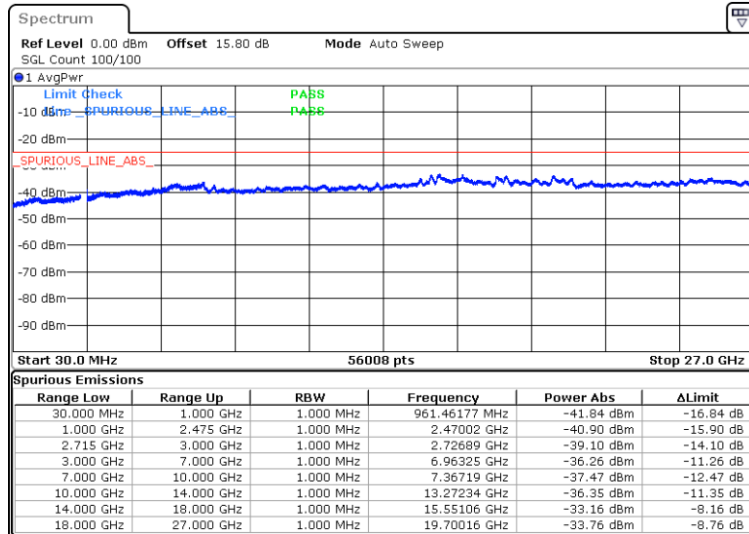
Middle Channel / QPSK



Date: 29.OCT.2021 10:10:39

Date: 29.OCT.2021 10:11:50

Highest Channel / QPSK



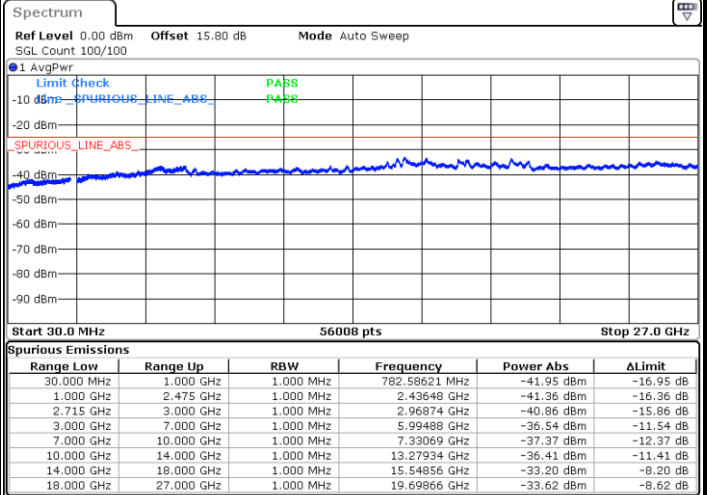
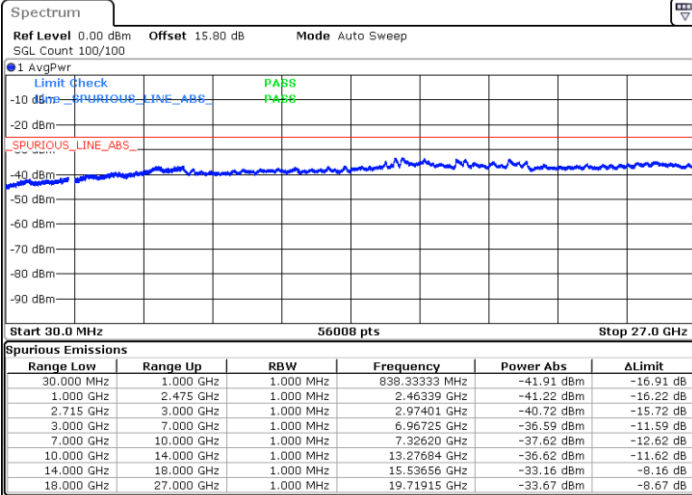
Date: 29.OCT.2021 10:13:00



LTE Band 41 / 20MHz

Lowest Channel / QPSK

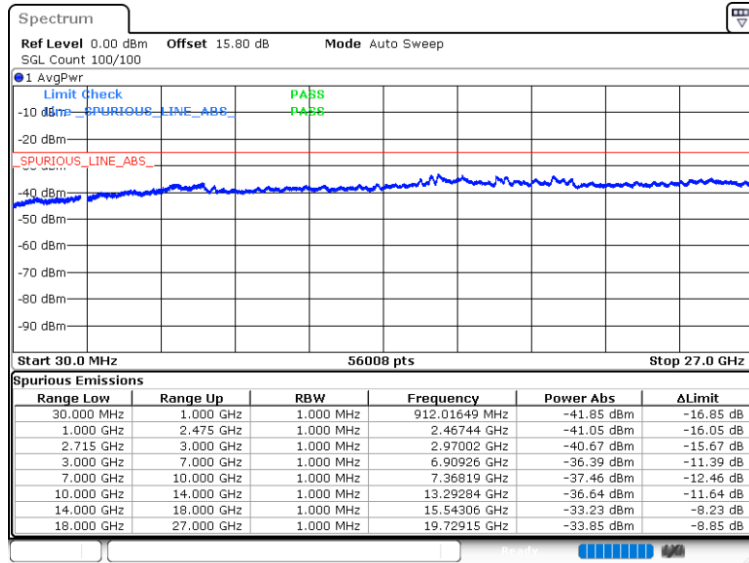
Middle Channel / QPSK



Date: 29.OCT.2021 10:14:12

Date: 29.OCT.2021 10:15:23

Highest Channel / QPSK



Date: 29.OCT.2021 10:16:33



### Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

**Note:**

- 1. Normal Voltage =12.00 V. ; Battery End Point (BEP) =8.00 V. ; Maximum Voltage =40.00 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.





## Appendix B. Test Results of Radiated Test

### LTE Band 5

LTE Band 5 / 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	1656	-58.57	-13	-45.57	-70.61	-60.3	0.98	4.86	H	
	2480	-58.38	-13	-45.38	-75.59	-60.29	1.28	5.34	H	
	3304	-51.39	-13	-38.39	-70.82	-54.83	1.54	7.14	H	
	4136	-50.87	-13	-37.87	-71.56	-55.51	1.84	8.63	H	
	4960	-52.61	-13	-39.61	-76.16	-57.77	2.31	9.62	H	
										H
	1656	-54.30	-13	-41.30	-66.81	-56.03	0.98	4.86	V	
	2480	-56.98	-13	-43.98	-74.63	-58.89	1.28	5.34	V	
	3304	-49.99	-13	-36.99	-69.7	-53.43	1.54	7.14	V	
	4136	-49.65	-13	-36.65	-70.49	-54.29	1.84	8.63	V	
	4960	-52.04	-13	-39.04	-75.41	-57.2	2.31	9.62	V	
	5784	-53.50	-13	-40.50	-79.28	-58.38	2.79	9.81	V	
	7440	-52.23	-13	-39.23	-79.65	-59.31	2.45	11.68	V	
	8264	-50.67	-13	-37.67	-79.48	-58.51	2.32	12.31	V	
Middle	1672	-60.75	-13	-47.75	-72.93	-62.43	0.99	4.82	H	
	2512	-59.16	-13	-46.16	-76.41	-61.13	1.29	5.41	H	
	3344	-53.43	-13	-40.43	-73.04	-57.04	1.56	7.31	H	
	4184	-53.69	-13	-40.69	-74.52	-58.31	1.87	8.64	H	
	5016	-54.51	-13	-41.51	-78.12	-59.71	2.35	9.70	H	
										H
	1672	-56.21	-13	-43.21	-68.85	-57.89	0.99	4.82	V	
	2512	-56.71	-13	-43.71	-74.42	-58.68	1.29	5.41	V	
	3344	-51.47	-13	-38.47	-71.29	-55.08	1.56	7.31	V	
	4184	-51.31	-13	-38.31	-72.28	-55.93	1.87	8.64	V	
	5016	-53.08	-13	-40.08	-76.5	-58.28	2.35	9.70	V	
	7528	-51.85	-13	-38.85	-79.43	-59.1	2.42	11.82	V	
8368	-50.81	-13	-37.81	-79.76	-58.71	2.35	12.39	V		



LTE Band 5 / 5MHz / QPSK									
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)
Highest	1696	-61.13	-13	-48.13	-73.47	-62.73	1.00	4.75	H
	2536	-58.22	-13	-45.22	-75.44	-60.2	1.30	5.43	H
	3384	-53.00	-13	-40.00	-72.81	-56.77	1.57	7.49	H
	4232	-53.55	-13	-40.55	-74.53	-58.15	1.89	8.65	H
	5080	-53.59	-13	-40.59	-77.42	-58.76	2.38	9.70	H
									H
									H
	1696	-56.96	-13	-43.96	-69.74	-58.56	1.00	4.75	V
	2536	-57.11	-13	-44.11	-74.82	-59.09	1.30	5.43	V
	3384	-51.65	-13	-38.65	-71.59	-55.42	1.57	7.49	V
	4232	-51.08	-13	-38.08	-72.18	-55.68	1.89	8.65	V
	5080	-52.39	-13	-39.39	-76.05	-57.56	2.38	9.70	V
									V
									V

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



**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	1656	-59.90	-13	-46.90	-71.94	-61.63	0.98	4.86	H	
	2480	-58.21	-13	-45.21	-75.342	-60.12	1.28	5.34	H	
	3304	-52.55	-13	-39.55	-71.98	-55.99	1.54	7.14	H	
	4136	-51.26	-13	-38.26	-71.95	-55.9	1.84	8.63	H	
	4960	-53.64	-13	-40.64	-77.19	-58.8	2.31	9.62	H	
										H
										H
	1656	-55.51	-13	-42.51	-68.02	-57.24	0.98	4.86	V	
	2480	-56.52	-13	-43.52	-74.17	-58.43	1.28	5.34	V	
	3304	-51.05	-13	-38.05	-70.76	-54.49	1.54	7.14	V	
	4136	-50.14	-13	-37.14	-70.98	-54.78	1.84	8.63	V	
	4960	-52.57	-13	-39.57	-75.94	-57.73	2.31	9.62	V	
	5784	-53.72	-13	-40.72	-79.5	-58.6	2.79	9.81	V	
	7440	-51.81	-13	-38.81	-79.23	-58.89	2.45	11.68	V	
									V	
Middle	1672	-60.90	-13	-47.90	-73.08	-62.58	0.99	4.82	H	
	2512	-59.37	-13	-46.37	-76.62	-61.34	1.29	5.41	H	
	3344	-54.29	-13	-41.29	-73.9	-57.9	1.56	7.31	H	
	4184	-53.87	-13	-40.87	-74.7	-58.49	1.87	8.64	H	
	5016	-53.82	-13	-40.82	-77.43	-59.02	2.35	9.70	H	
										H
										H
	1672	-57.94	-13	-44.94	-70.58	-59.62	0.99	4.82	V	
	2512	-56.03	-13	-43.03	-73.74	-58	1.29	5.41	V	
	3344	-52.20	-13	-39.20	-72.02	-55.81	1.56	7.31	V	
	4184	-52.36	-13	-39.36	-73.33	-56.98	1.87	8.64	V	
	5016	-53.65	-13	-40.65	-77.07	-58.85	2.35	9.70	V	
										V
										V



LTE Band 26 / 5MHz / QPSK									
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)
Highest	1696	-61.77	-13	-48.77	-74.11	-63.37	1.00	4.75	H
	2536	-58.77	-13	-45.77	-75.99	-60.75	1.30	5.43	H
	3384	-53.76	-13	-40.76	-73.57	-57.53	1.57	7.49	H
	4232	-54.46	-13	-41.46	-75.44	-59.06	1.89	8.65	H
	5080	-54.14	-13	-41.14	-77.97	-59.31	2.38	9.70	H
									H
									H
	1696	-59.94	-13	-46.94	-72.72	-61.54	1.00	4.75	V
	2536	-56.22	-13	-43.22	-73.93	-58.2	1.30	5.43	V
	3384	-52.63	-13	-39.63	-72.57	-56.4	1.57	7.49	V
	4232	-52.51	-13	-39.51	-73.61	-57.11	1.89	8.65	V
	5080	-53.48	-13	-40.48	-77.14	-58.65	2.38	9.70	V
									V
									V

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



## LTE Band 2

LTE Band 2 / 5MHz / QPSK										
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	3708	-55.35	-13	-42.35	-76.22	-61.93	1.67	8.25	H	
	5556	-52.74	-13	-39.74	-78.27	-59.81	2.66	9.72	H	
	7410	-47.87	-13	-34.87	-74.99	-57.03	2.46	11.62	H	
	9262	-49.44	-13	-36.44	-79.71	-59.5	2.54	12.60	H	
	11110	-47.52	-13	-34.52	-81.85	-57.29	2.69	12.46	H	
										H
										H
	3708	-51.59	-13	-38.59	-72.45	-58.17	1.67	8.25	V	
	5556	-42.47	-13	-29.47	-67.97	-49.54	2.66	9.72	V	
	7410	-39.80	-13	-26.80	-67.13	-48.96	2.46	11.62	V	
	9262	-42.08	-13	-29.08	-72.76	-52.14	2.54	12.60	V	
	11110	-42.69	-13	-29.69	-76.86	-52.46	2.69	12.46	V	
										V
										V
Middle	3762	-55.61	-13	-42.61	-76.46	-62.24	1.69	8.31	H	
	5640	-44.37	-13	-31.37	-70.11	-51.42	2.71	9.76	H	
	7518	-43.74	-13	-30.74	-70.95	-53.13	2.42	11.81	H	
	9399	-48.39	-13	-35.39	-79.51	-58.36	2.57	12.54	H	
	11278	-47.69	-13	-34.69	-82.23	-57.39	2.68	12.39	H	
										H
										H
	3762	-51.01	-13	-38.01	-71.88	-57.64	1.69	8.31	V	
	5640	-42.28	-13	-29.28	-68	-49.33	2.71	9.76	V	
	7518	-41.57	-13	-28.57	-69.02	-50.96	2.42	11.81	V	
	9399	-39.11	-13	-26.11	-70.63	-49.08	2.57	12.54	V	
	11278	-44.13	-13	-31.13	-78.58	-53.83	2.68	12.39	V	
										V
										V



LTE Band 2 / 5MHz / QPSK									
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)
Highest	3816	-56.50	-13	-43.50	-77.29	-63.18	1.70	8.38	H
	5724	-42.79	-13	-29.79	-68.84	-49.83	2.75	9.79	H
	7632	-40.52	-13	-27.52	-68.03	-50.01	2.39	11.88	H
	9535	-46.26	-13	-33.26	-77.57	-56.14	2.60	12.48	H
	11446	-46.09	-13	-33.09	-80.82	-55.73	2.68	12.32	H
	13357	-45.79	-13	-32.79	-83.5	-56.27	3.02	13.50	H
	15258	-42.73	-13	-29.73	-79.74	-52.99	3.71	13.96	H
	3816	-52.53	-13	-39.53	-73.39	-59.21	1.70	8.38	V
	5724	-39.08	-13	-26.08	-65.12	-46.12	2.75	9.79	V
	7632	-36.72	-13	-23.72	-64.49	-46.21	2.39	11.88	V
	9535	-38.57	-13	-25.57	-70.24	-48.45	2.60	12.48	V
	11446	-43.87	-13	-30.87	-78.57	-53.51	2.68	12.32	V
	13357	-43.12	-13	-30.12	-80.82	-53.6	3.02	13.50	V
	15258	-37.95	-13	-24.95	-75.04	-48.21	3.71	13.96	V

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



**LTE Band 25**

LTE Band 25 / 5MHz / QPSK									
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	3708	-54.98	-13	-41.98	-75.85	-61.56	1.67	8.25	H
	5556	-45.29	-13	-32.29	-70.82	-52.36	2.66	9.72	H
	7410	-43.37	-13	-30.37	-70.49	-52.53	2.46	11.62	H
	9262	-48.43	-13	-35.43	-78.7	-58.49	2.54	12.60	H
	11110	-46.25	-13	-33.25	-80.58	-56.02	2.69	12.46	H
									H
									H
	3708	-51.25	-13	-38.25	-72.11	-57.83	1.67	8.25	V
	5556	-42.79	-13	-29.79	-68.29	-49.86	2.66	9.72	V
	7410	-39.48	-13	-26.48	-66.81	-48.64	2.46	11.62	V
	9262	-41.05	-13	-28.05	-71.73	-51.11	2.54	12.60	V
	11110	-43.14	-13	-30.14	-77.31	-52.91	2.69	12.46	V
									V
									V
Middle	3768	-54.02	-13	-41.02	-74.86	-60.65	1.69	8.32	H
	5646	-43.60	-13	-30.60	-69.34	-50.65	2.71	9.76	H
	7530	-43.58	-13	-30.58	-70.84	-52.98	2.42	11.82	H
	9399	-50.18	-13	-37.18	-81.3	-60.15	2.57	12.54	H
	11278	-47.79	-13	-34.79	-82.33	-57.49	2.68	12.39	H
	15037	-45.78	-13	-32.78	-82.28	-55.82	3.61	13.65	H
									H
	3768	-51.24	-13	-38.24	-72.11	-57.87	1.69	8.32	V
	5646	-40.54	-13	-27.54	-66.26	-47.59	2.71	9.76	V
	7530	-38.66	-13	-25.66	-66.17	-48.06	2.42	11.82	V
	9399	-39.87	-13	-26.87	-71.39	-49.84	2.57	12.54	V
	11278	-44.61	-13	-31.61	-79.06	-54.31	2.68	12.39	V
	15037	-42.98	-13	-29.98	-79.74	-53.02	3.61	13.65	V
									V
								V	



LTE Band 25 / 5MHz / QPSK									
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)
Highest	3828	-56.40	-13	-43.40	-77.18	-63.09	1.71	8.39	H
	5736	-42.65	-13	-29.65	-68.73	-49.68	2.76	9.79	H
	7650	-39.46	-13	-26.46	-66.99	-48.97	2.38	11.89	H
	9567	-46.23	-13	-33.23	-77.55	-56.09	2.60	12.46	H
	11478	-46.92	-13	-33.92	-81.69	-56.55	2.68	12.31	H
	15300	-43.23	-13	-30.23	-80.31	-53.53	3.72	14.02	H
									H
	3828	-53.30	-13	-40.30	-74.15	-59.99	1.71	8.39	V
	5736	-41.37	-13	-28.37	-67.44	-48.4	2.76	9.79	V
	7650	-36.49	-13	-23.49	-64.29	-46	2.38	11.89	V
	9567	-37.97	-13	-24.97	-69.62	-47.83	2.60	12.46	V
	11478	-45.16	-13	-32.16	-79.91	-54.79	2.68	12.31	V
	15300	-39.42	-13	-26.42	-76.55	-49.72	3.72	14.02	V
									V

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





**LTE Band 12**

LTE Band 12 / 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	1400	-42.68	-13.00	-29.68	-52.87	-44.34	0.87	4.68	H
	2104	-49.46	-13.00	-36.46	-64.94	-50.36	1.17	4.21	H
	2808	-59.32	-13.00	-46.32	-77.00	-61.43	1.39	5.65	H
									H
									H
									H
									H
	1400	-45.16	-13.00	-32.16	-55.76	-46.82	0.87	4.68	V
	2104	-49.88	-13.00	-36.88	-65.71	-50.78	1.17	4.21	V
	2808	-58.21	-13.00	-45.21	-76.49	-60.32	1.39	5.65	V
									V
	Middle	1416	-41.46	-13.00	-28.46	-51.61	-43.21	0.87	4.78
2120		-49.61	-13.00	-36.61	-65.10	-50.55	1.17	4.26	H
2832		-59.41	-13.00	-46.41	-76.98	-61.53	1.39	5.67	H
									H
									H
									H
									H
1416		-40.86	-13.00	-27.86	-51.49	-42.61	0.87	4.78	V
2120		-49.39	-13.00	-36.39	-65.23	-50.33	1.17	4.26	V
2832		-57.66	-13.00	-44.66	-76.00	-59.78	1.39	5.67	V
									V
									V
								V	



LTE Band 12 / 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)
Highest	1424	-40.73	-13.00	-27.73	-51.07	-42.53	0.88	4.83	H
	2144	-46.44	-13.00	-33.44	-62.06	-47.44	1.18	4.33	H
	2856	-59.43	-13.00	-46.43	-77.07	-61.56	1.40	5.68	H
									H
									H
									H
									H
	1424	-42.24	-13.00	-29.24	-53.02	-44.04	0.88	4.83	V
	2144	-46.69	-13.00	-33.69	-62.66	-47.69	1.18	4.33	V
	2856	-57.55	-13.00	-44.55	-75.90	-59.68	1.40	5.68	V
									V
									V
									V
									V

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



**LTE Band 13**

LTE Band 13 / 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	1560	-42.67	-42.15	-0.52	-53.85	-44.71	0.94	5.13	H
	2336	-48.75	-13	-35.75	-65.38	-50.27	1.24	4.91	H
	3120	-56.97	-13	-43.97	-75.45	-59.66	1.49	6.33	H
	3896	-56.46	-13	-43.46	-76.98	-61.06	1.73	8.48	H
									H
									H
									H
	1560	-48.40	-42.15	-6.25	-60.08	-50.44	0.94	5.13	V
	2336	-50.51	-13	-37.51	-67.55	-52.03	1.24	4.91	V
	3120	-56.65	-13	-43.65	-75.85	-59.34	1.49	6.33	V
	3896	-55.05	-13	-42.05	-75.69	-59.65	1.73	8.48	V
									V
									V
									V
Middle	1568	-44.75	-42.15	-2.60	-55.94	-46.77	0.94	5.11	H
	2344	-51.15	-13	-38.15	-67.80	-52.69	1.24	4.93	H
	3128	-56.14	-13	-43.14	-74.67	-58.87	1.49	6.36	H
	3912	-55.74	-13	-42.74	-76.23	-60.35	1.73	8.49	H
									H
									H
									H
	1568	-50.21	-42.15	-8.06	-61.79	-52.23	0.94	5.11	V
	2344	-54.71	-13	-41.71	-71.69	-56.25	1.24	4.93	V
	3128	-54.42	-13	-41.42	-73.61	-57.15	1.49	6.36	V
	3912	-53.83	-13	-40.83	-74.45	-58.44	1.73	8.49	V
									V
									V
									V



LTE Band 13 / 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)
Highest	1568	-47.99	-42.15	-5.84	-59.14	-50.01	0.94	5.11	H
	2352	-54.27	-13	-41.27	-71.02	-55.83	1.24	4.96	H
	3136	-55.53	-13	-42.53	-74.13	-58.29	1.49	6.40	H
	3920	-55.85	-13	-42.85	-76.39	-60.47	1.74	8.50	H
									H
									H
									H
	1568	-51.77	-42.15	-9.62	-63.38	-53.79	0.94	5.11	V
	2352	-55.92	-13	-42.92	-73.10	-57.48	1.24	4.96	V
	3136	-55.16	-13	-42.16	-74.41	-57.92	1.49	6.40	V
	3920	-54.39	-13	-41.39	-74.95	-59.01	1.74	8.50	V
									V
									V
									V

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



LTE Band 13 / 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	1552	-37.47	-13	-24.47	-48.56	-39.54	0.94	5.15	H
	2336	-44.35	-13	-31.35	-60.89	-45.87	1.24	4.91	H
	3112	-56.16	-13	-43.16	-74.6	-58.82	1.48	6.29	H
	3888	-54.76	-13	-41.76	-75.1	-59.35	1.73	8.47	H
	4664	-54.52	-13	-41.52	-77.31	-59.25	2.14	9.03	H
	5440	-55.77	-13	-42.77	-80.47	-60.73	2.59	9.70	H
									H
	1552	-43.96	-13	-30.96	-55.5	-46.03	0.94	5.15	V
	2336	-46.49	-13	-33.49	-63.5	-48.01	1.24	4.91	V
	3112	-56.01	-13	-43.01	-75.16	-58.67	1.48	6.29	V
	3888	-53.85	-13	-40.85	-74.21	-58.44	1.73	8.47	V
	4664	-54.88	-13	-41.88	-77.55	-59.61	2.14	9.03	V
	5440	-54.11	-13	-41.11	-78.82	-59.07	2.59	9.70	V
									V

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



### LTE Band 4

LTE Band 4 / 5MHz / QPSK									
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	3426	-50.52	-13	-37.52	-71.26	-56.61	1.58	7.67	H
	5136	-49.61	-13	-36.61	-73.87	-56.89	2.42	9.70	H
	6852	-46.63	-13	-33.63	-73.37	-54.61	2.64	10.62	H
	8562	-48.53	-13	-35.53	-77.8	-58.67	2.39	12.52	H
	10270	-49.04	-13	-36.04	-81.3	-58.65	2.69	12.31	H
	15415	-44.74	-13	-31.74	-82.19	-55.15	3.77	14.18	H
									H
	3426	-47.06	-13	-34.06	-67.74	-53.15	1.58	7.67	V
	5136	-47.74	-13	-34.74	-71.83	-55.02	2.42	9.70	V
	6852	-44.06	-13	-31.06	-70.76	-52.04	2.64	10.62	V
	8562	-43.52	-13	-30.52	-73.09	-53.66	2.39	12.52	V
	10270	-47.21	-13	-34.21	-79.2	-56.82	2.69	12.31	V
	15415	-42.84	-13	-29.84	-80.09	-53.25	3.77	14.18	V
									V
Middle	3468	-51.52	-13	-38.52	-72.42	-57.78	1.59	7.86	H
	5196	-50.11	-13	-37.11	-74.56	-57.36	2.45	9.70	H
	6930	-46.23	-13	-33.23	-73.19	-54.33	2.61	10.72	H
	8664	-50.29	-13	-37.29	-79.41	-60.45	2.41	12.57	H
	10396	-48.41	-13	-35.41	-80.96	-58.08	2.69	12.36	H
	15594	-43.96	-13	-30.96	-81.19	-54.28	3.85	14.17	H
									H
	3468	-47.75	-13	-34.75	-68.51	-54.01	1.59	7.86	V
	5196	-49.14	-13	-36.14	-73.48	-56.39	2.45	9.70	V
	6930	-44.03	-13	-31.03	-70.93	-52.13	2.61	10.72	V
	8664	-42.41	-13	-29.41	-71.93	-52.57	2.41	12.57	V
	10396	-46.38	-13	-33.38	-78.81	-56.05	2.69	12.36	V
	15594	-40.72	-13	-27.72	-78.09	-51.04	3.85	14.17	V
									V



LTE Band 4 / 5MHz / QPSK									
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)
Highest	3504	-52.28	-13	-39.28	-73.31	-58.68	1.61	8.00	H
	5256	-49.13	-13	-36.13	-73.71	-56.35	2.48	9.70	H
	7008	-43.54	-13	-30.54	-70.47	-51.77	2.59	10.82	H
	8760	-47.36	-13	-34.36	-76.46	-57.53	2.43	12.60	H
	10512	-48.52	-13	-35.52	-81.36	-58.23	2.69	12.40	H
	15772	-42.48	-13	-29.48	-79.1	-52.48	3.92	13.92	H
									H
	3504	-47.01	-13	-34.01	-67.86	-53.41	1.61	8.00	V
	5256	-45.74	-13	-32.74	-70.27	-52.96	2.48	9.70	V
	7008	-41.31	-13	-28.31	-68.28	-49.54	2.59	10.82	V
	8760	-41.49	-13	-28.49	-70.9	-51.66	2.43	12.60	V
	10512	-46.54	-13	-33.54	-79.25	-56.25	2.69	12.40	V
	15772	-37.69	-13	-24.69	-74.94	-47.69	3.92	13.92	V
									V

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



**LTE Band 7**

LTE Band 7 / 5MHz / QPSK									
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	5004	-45.34	-25	-20.34	-69.02	-52.7	2.34	9.70	H
	7506	-45.22	-25	-20.22	-73.07	-54.6	2.43	11.80	H
	10008	-44.39	-25	-19.39	-75.37	-53.9	2.70	12.20	H
									H
									H
									H
									H
	5004	-45.74	-25	-20.74	-69.28	-53.1	2.34	9.70	V
	7506	-43.02	-25	-18.02	-70.23	-52.4	2.43	11.80	V
	10008	-35.09	-25	-10.09	-66.61	-44.6	2.70	12.20	V
									V
									V
									V
									V
Middle	5070	-44.93	-25	-19.93	-68.92	-52.25	2.38	9.70	H
	7608	-47.59	-25	-22.59	-75.13	-57.06	2.39	11.86	H
	10134	-44.26	-25	-19.26	-76.01	-53.82	2.70	12.25	H
									H
									H
									H
									H
	5070	-42.57	-25	-17.57	-66.37	-49.89	2.38	9.70	V
	7608	-42.64	-25	-17.64	-70.35	-52.11	2.39	11.86	V
	10134	-36.02	-25	-11.02	-67.8	-45.58	2.70	12.25	V
									V
									V
									V
									V
								V	





LTE Band 7 / 5MHz / QPSK									
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)
Highest	5136	-43.22	-25	-18.22	-67.16	-50.5	2.42	9.70	H
	7704	-42.54	-25	-17.54	-69.73	-52.1	2.36	11.92	H
	10278	-40.58	-25	-15.58	-72.53	-50.2	2.69	12.31	H
									H
									H
									H
									H
	5136	-40.82	-25	-15.82	-64.51	-48.1	2.42	9.70	V
	7704	-39.74	-25	-14.74	-67.23	-49.3	2.36	11.92	V
	10278	-32.78	-25	-7.78	-64.62	-42.4	2.69	12.31	V
									V
									V
									V
									V

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



**LTE Band 38**

LTE Band 38 / 5MHz / QPSK									
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	5148	-48.82	-25	-23.82	-72.85	-56.1	2.42	9.70	H
	7716	-45.13	-25	-20.13	-72.47	-54.7	2.36	11.93	H
	10296	-39.98	-25	-14.98	-71.75	-49.6	2.69	12.32	H
									H
									H
									H
									H
	5148	-46.62	-25	-21.62	-70.69	-53.9	2.42	9.70	V
	7716	-41.83	-25	-16.83	-69.27	-51.4	2.36	11.93	V
	10296	-31.48	-25	-6.48	-63.13	-41.1	2.69	12.32	V
									V
									V
									V
									V
Middle	5190	-48.65	-25	-23.65	-72.53	-55.9	2.45	9.70	H
	7782	-42.57	-25	-17.57	-70.23	-52.2	2.34	11.97	H
	10386	-37.44	-25	-12.44	-69.64	-47.1	2.69	12.35	H
									H
									H
									H
									H
	5190	-46.35	-25	-21.35	-70.31	-53.6	2.45	9.70	V
	7782	-40.47	-25	-15.47	-68.02	-50.1	2.34	11.97	V
	10386	-28.84	-25	-3.84	-61	-38.5	2.69	12.35	V
									V
									V
									V
									V
								V	



LTE Band 38 / 5MHz / QPSK									
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)
Highest	5238	-48.67	-25	-23.67	-72.93	-55.9	2.47	9.70	H
	7854	-46.10	-25	-21.10	-73.92	-55.8	2.32	12.01	H
	10476	-36.80	-25	-11.80	-69.43	-46.5	2.69	12.39	H
									H
									H
									H
									H
	5238	-45.97	-25	-20.97	-70.27	-53.2	2.47	9.70	V
	7854	-40.40	-25	-15.40	-68.32	-50.1	2.32	12.01	V
	10476	-28.70	-25	-3.70	-60.98	-38.4	2.69	12.39	V
									V
									V
									V
									V

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



**LTE Band 41**

LTE Band 41 / 5MHz / QPSK									
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	4998	-48.94	-25	-23.94	-72.3	-56.3	2.34	9.70	H
	7494	-42.84	-25	-17.84	-70.08	-52.2	2.43	11.79	H
	9990	-40.59	-25	-15.59	-71.42	-50.1	2.69	12.21	H
									H
									H
									H
									H
	4998	-47.04	-25	-22.04	-70.37	-54.4	2.34	9.70	V
	7494	-40.74	-25	-15.74	-67.48	-50.1	2.43	11.79	V
	9990	-32.69	-25	-7.69	-63.63	-42.2	2.69	12.21	V
									V
									V
									V
									V
Middle	5184	-46.84	-25	-21.84	-70.57	-54.1	2.44	9.70	H
	7782	-42.57	-25	-17.57	-69.89	-52.2	2.34	11.97	H
	10368	-36.55	-25	-11.55	-68.73	-46.2	2.69	12.35	H
									H
									H
									H
									H
	5184	-43.24	-25	-18.24	-67.31	-50.5	2.44	9.70	V
	7782	-38.97	-25	-13.97	-66.85	-48.6	2.34	11.97	V
	10368	-27.25	-25	-2.25	-59.26	-36.9	2.69	12.35	V
									V
									V
									V
									V
								V	



LTE Band 41 / 5MHz / QPSK									
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)
Highest	5376	-47.21	-25	-22.21	-71.95	-54.36	2.55	9.70	H
	8064	-43.66	-25	-18.66	-72.11	-53.53	2.28	12.15	H
	10746	-32.76	-25	-7.76	-66.26	-42.52	2.69	12.45	H
									H
									H
									H
									H
	5376	-41.74	-25	-16.74	-66.51	-48.89	2.55	9.70	V
	8064	-40.05	-25	-15.05	-68.77	-49.92	2.28	12.15	V
	10746	-26.16	-25	-1.16	-59.48	-35.92	2.69	12.45	V
									V
									V
									V
									V

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