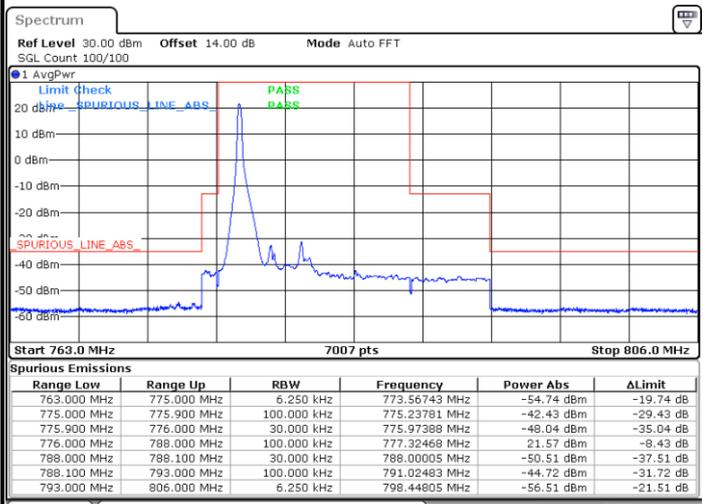




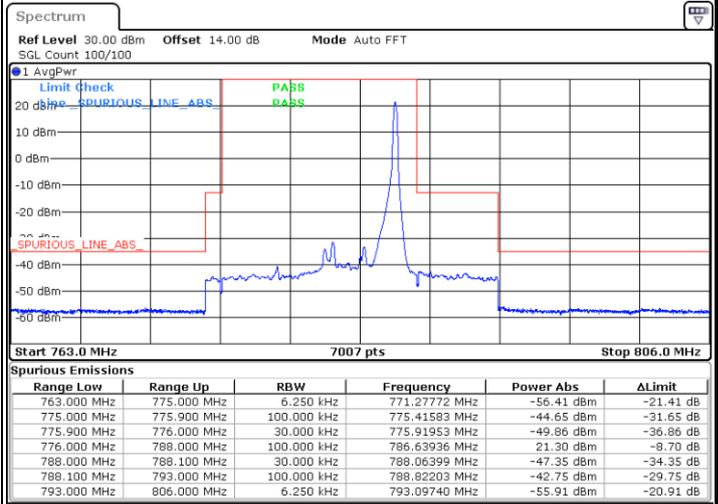
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



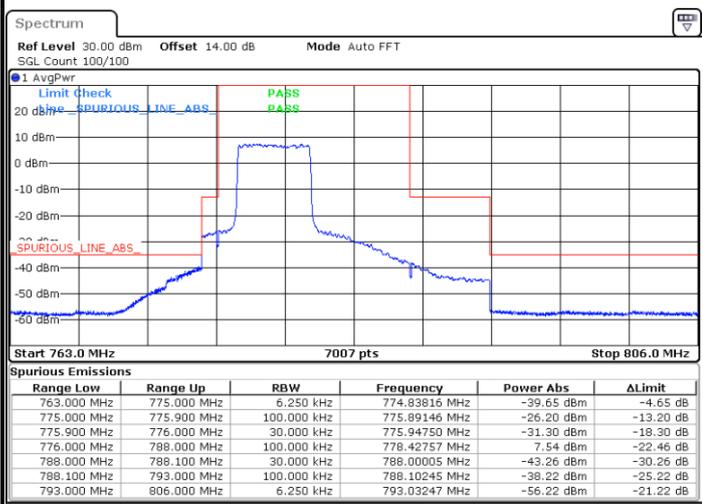
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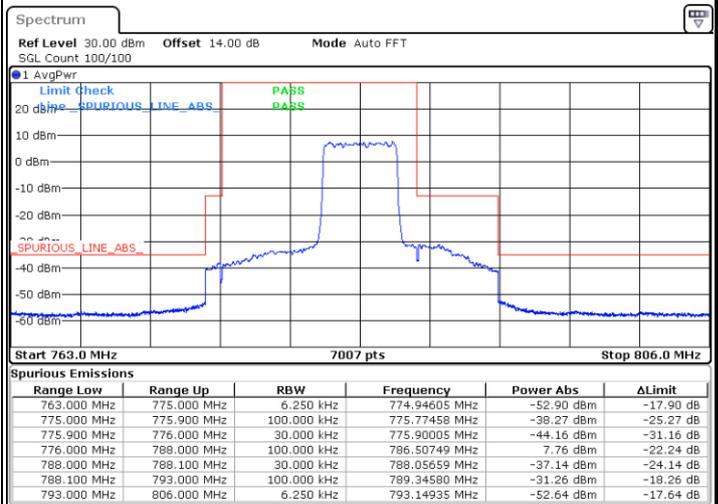
Date: 30 APR 2025 13:01:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 APR 2025 12:55:46

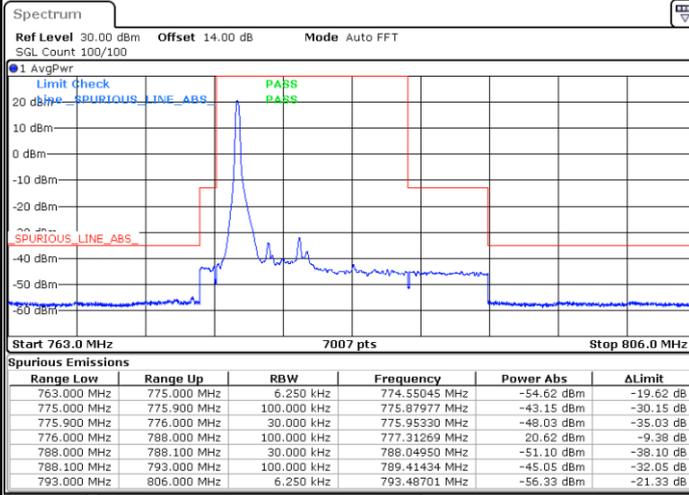


Date: 30 APR 2025 13:04:17



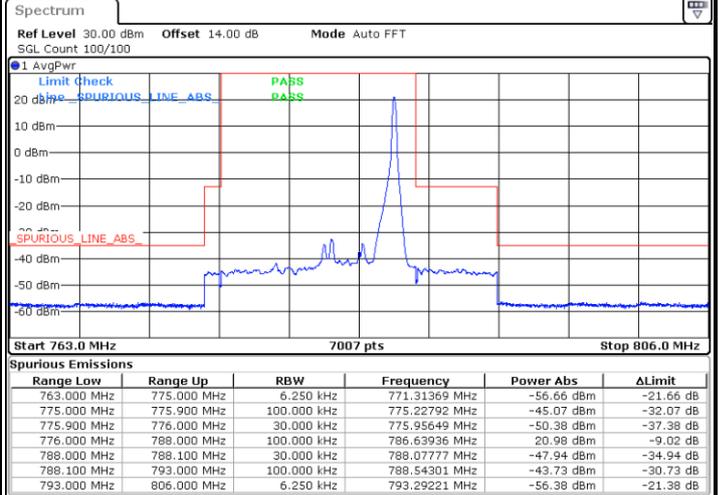
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



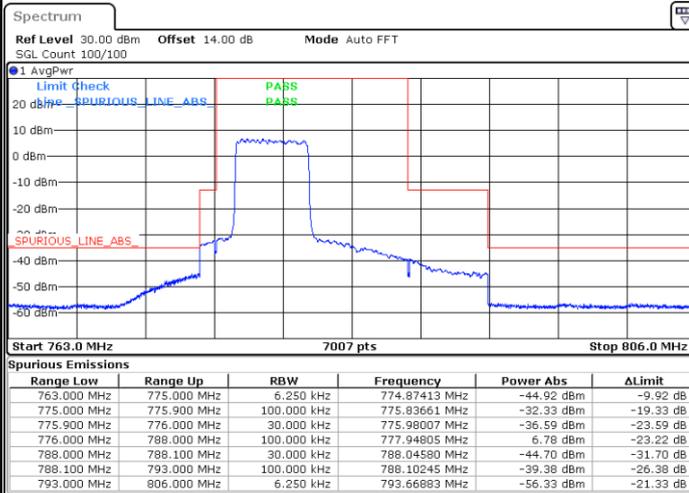
Date: 30 APR 2025 12:54:11

Highest Band Edge / 1 RB



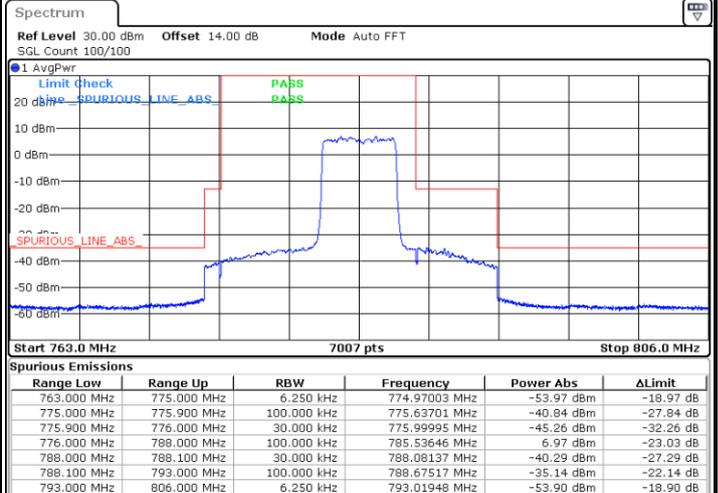
Date: 30 APR 2025 13:02:42

Lowest Band Edge / Full RB

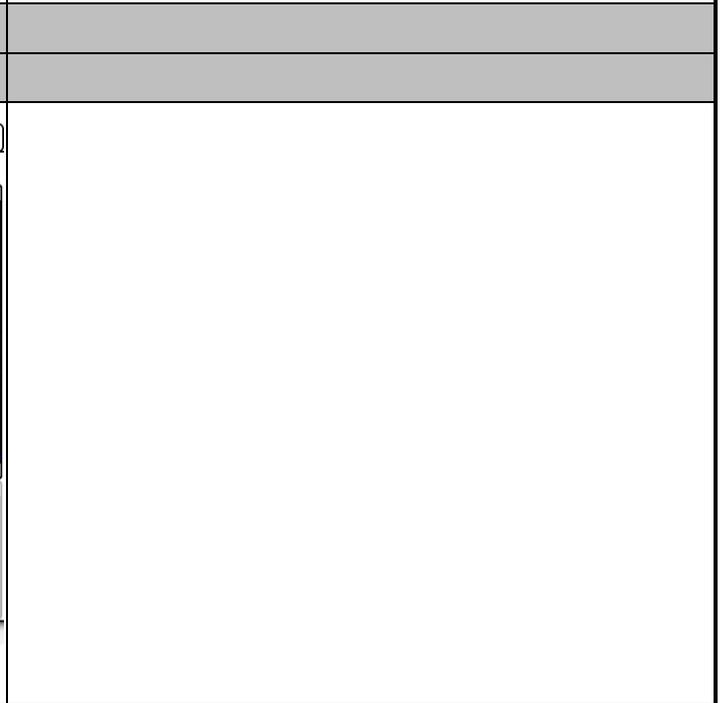
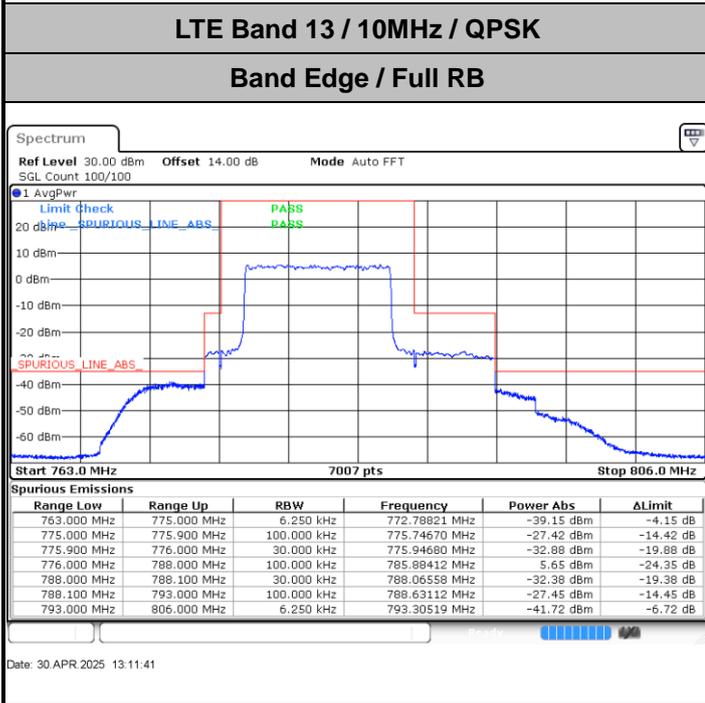
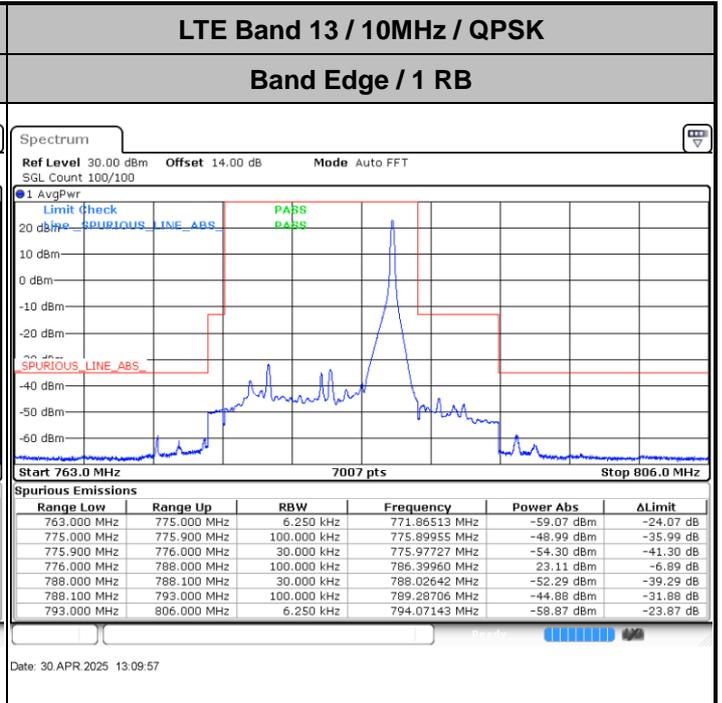
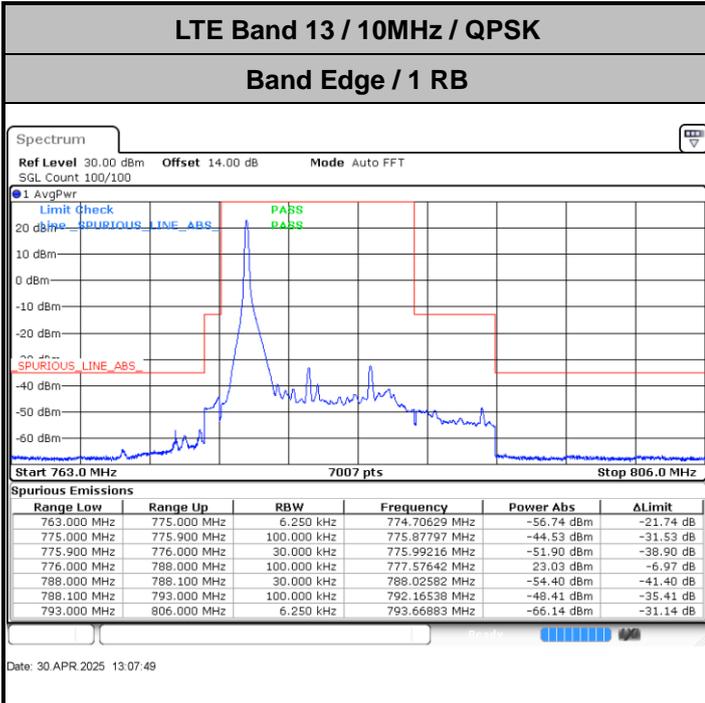


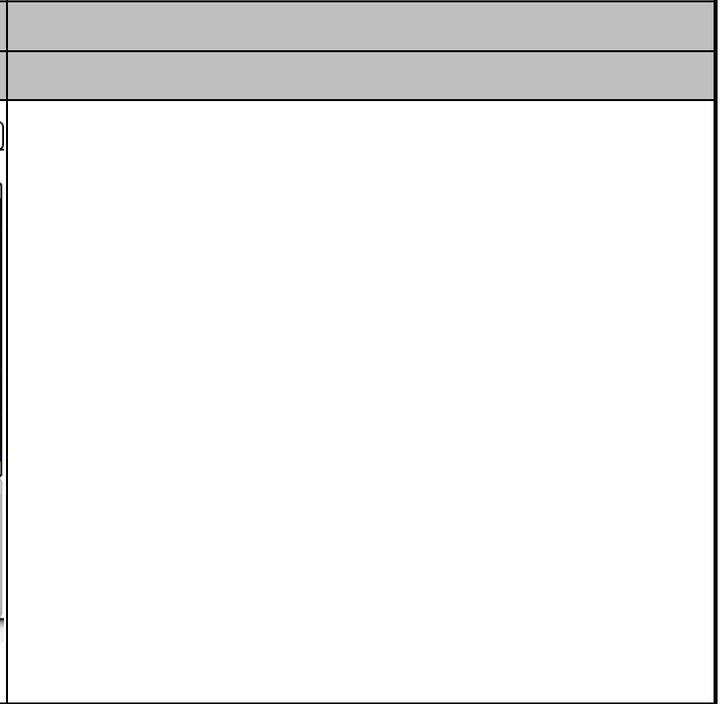
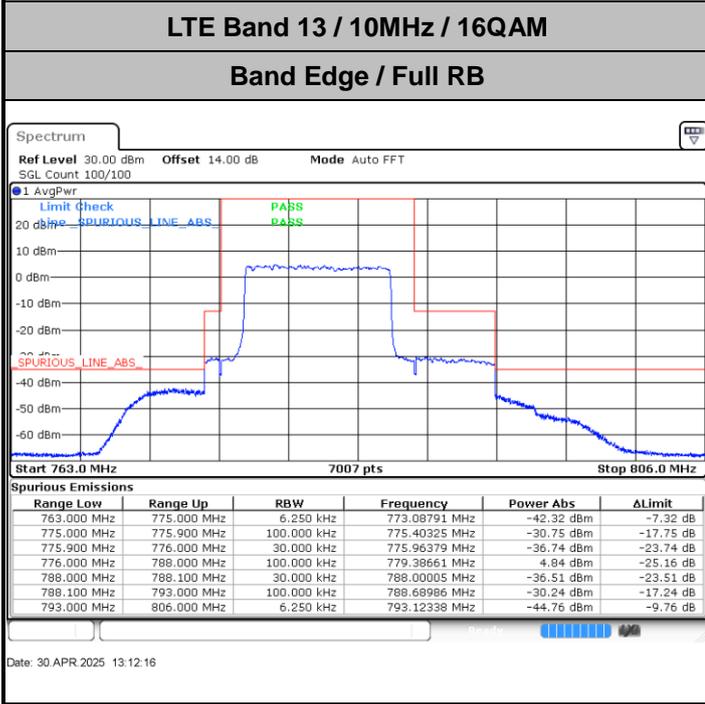
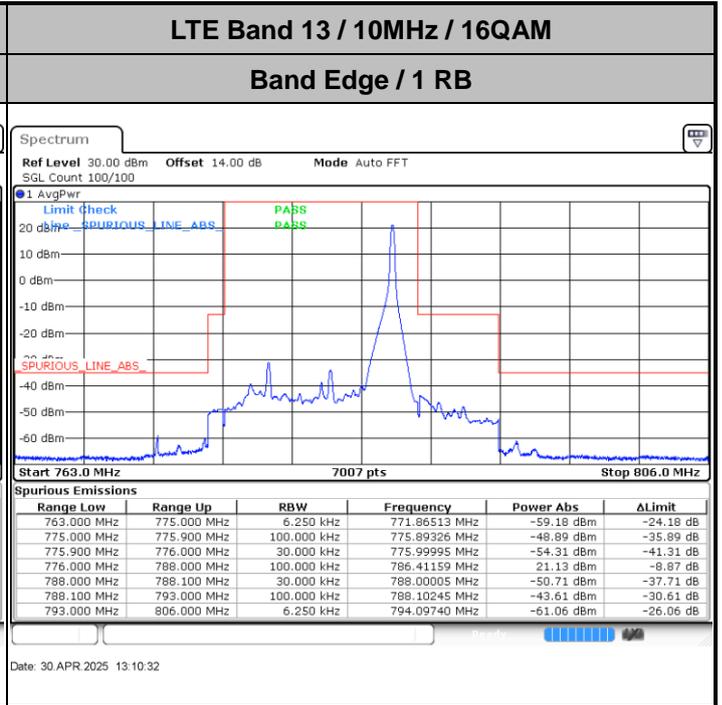
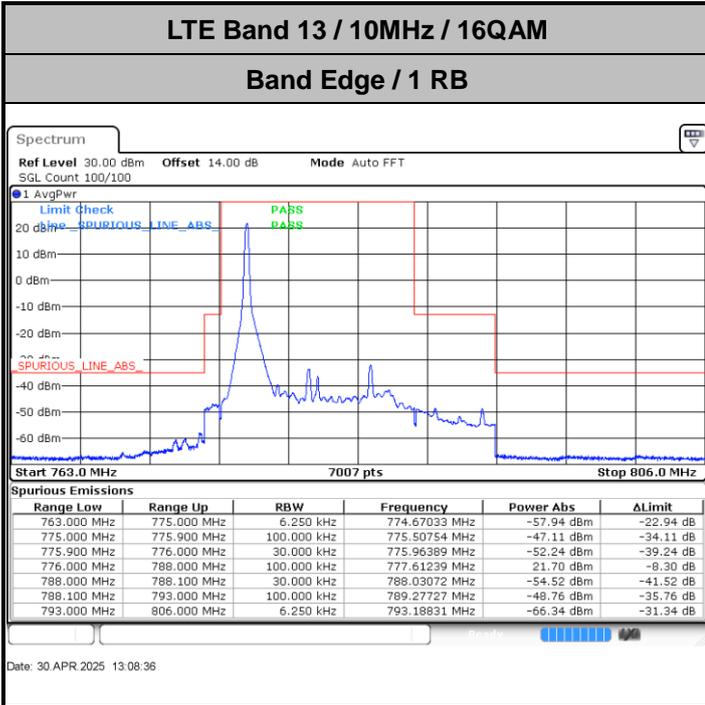
Date: 30 APR 2025 12:56:33

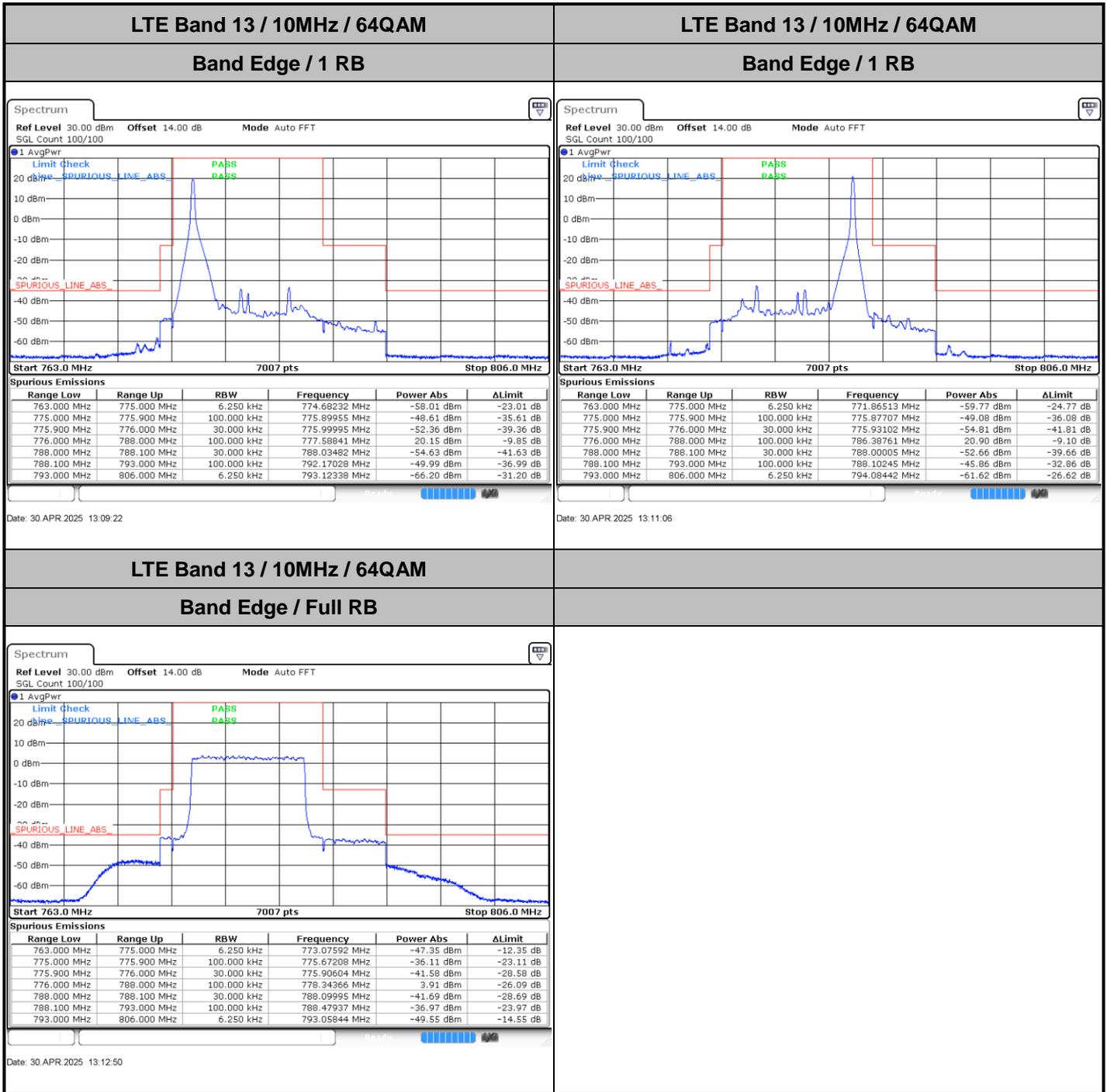
Highest Band Edge / Full RB



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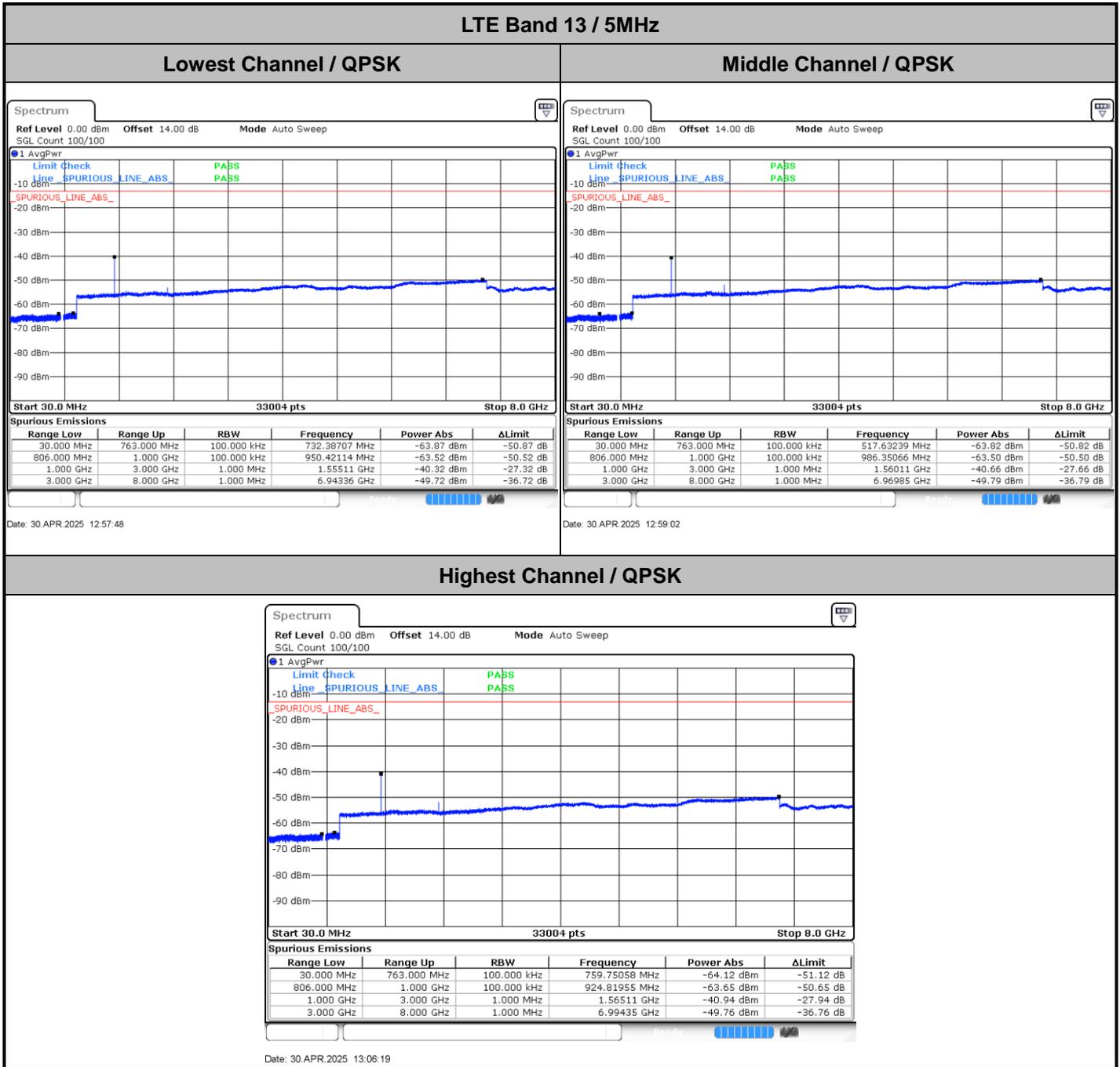








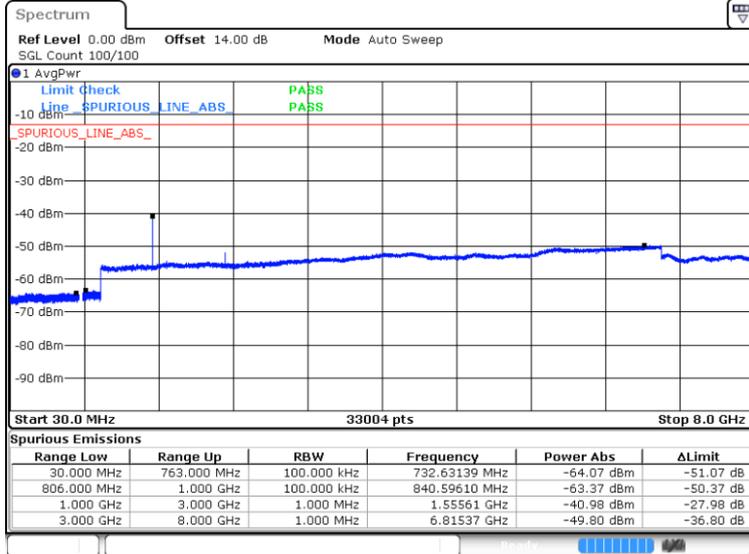
# Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 30.APR.2025 13:14:04



### Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

**Note:**

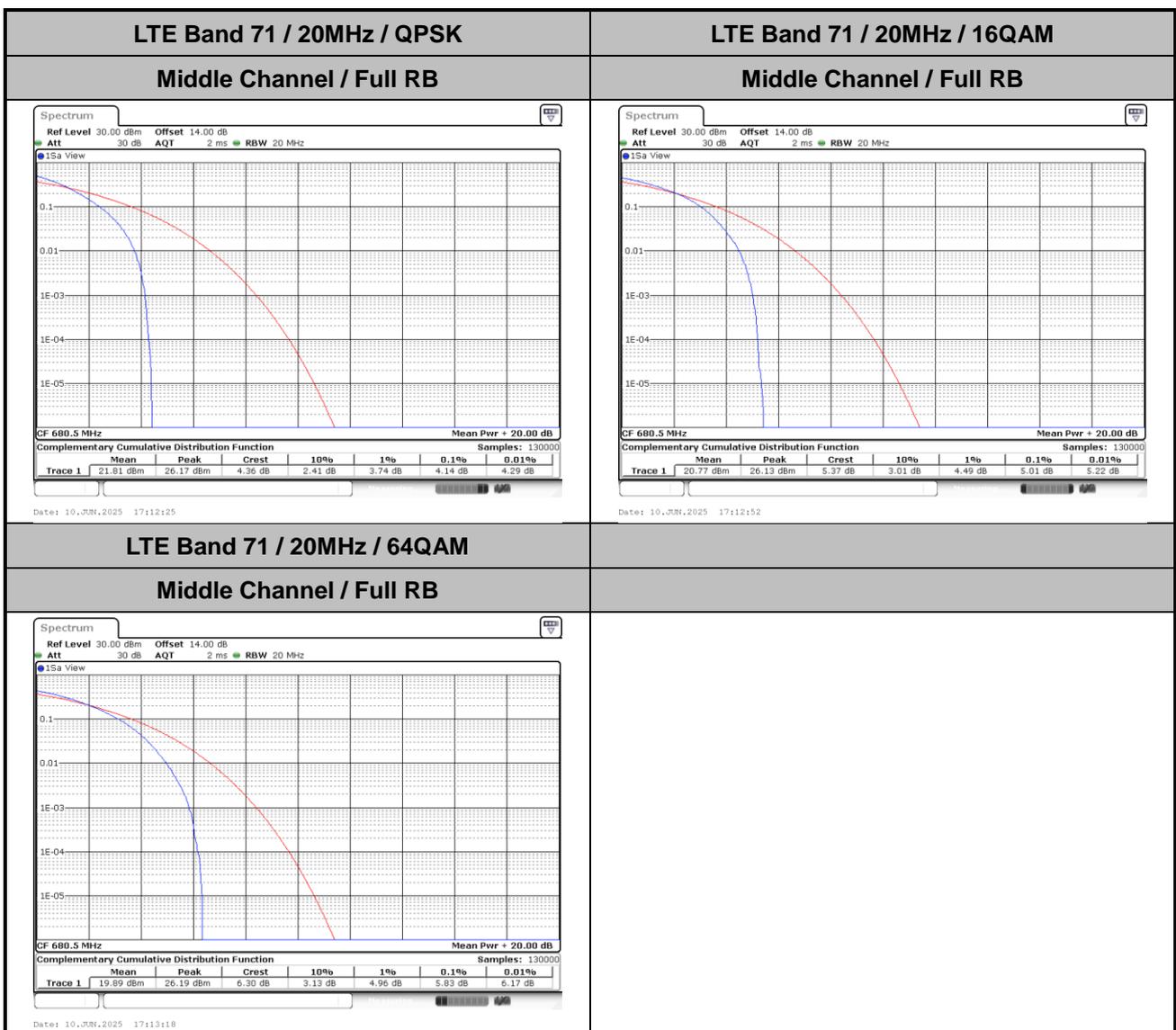
1. Normal Voltage =3.93 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 71

## Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.14	5.01	5.83	PASS





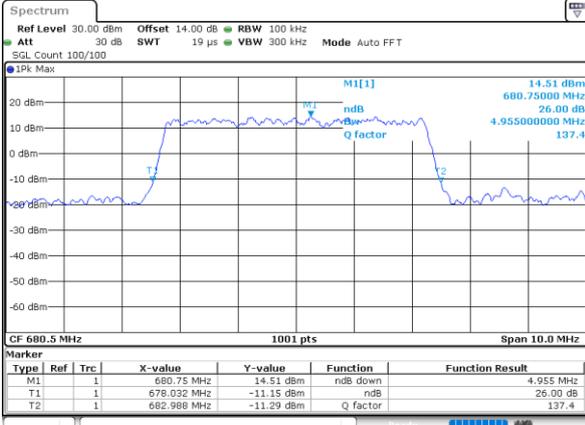
## 26dB Bandwidth

Mode	LTE Band 71 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.96	4.91	9.73	9.81	14.27	14.18	18.98	18.98



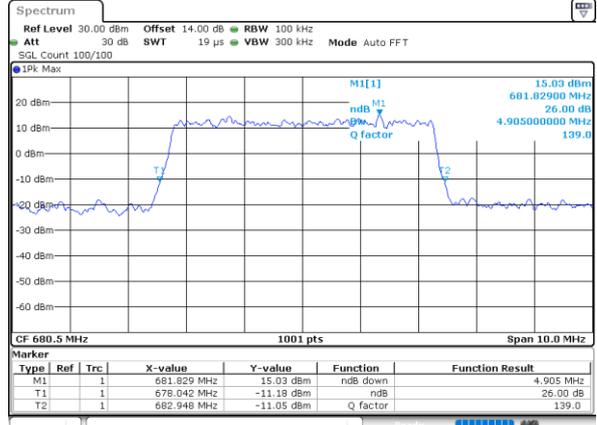
LTE Band 71

Middle Channel / 5MHz / QPSK



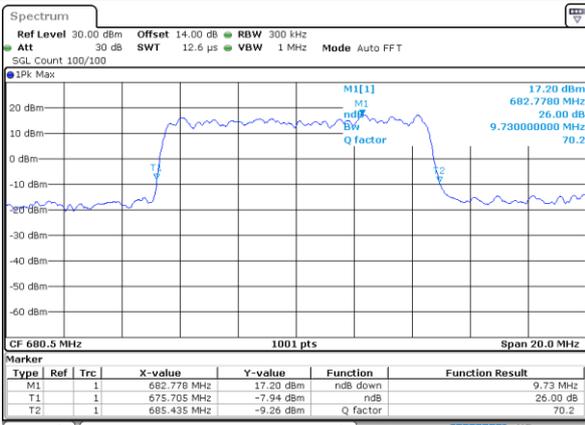
Date: 10 JUN 2025 16:23:19

Middle Channel / 5MHz / 16QAM



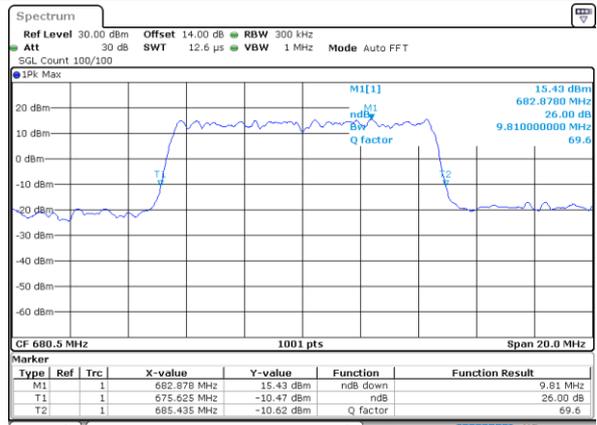
Date: 10 JUN 2025 16:23:59

Middle Channel / 10MHz / QPSK



Date: 10 JUN 2025 16:39:08

Middle Channel / 10MHz / 16QAM

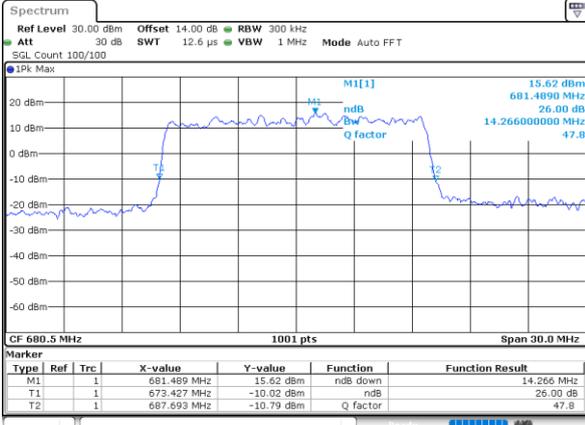


Date: 10 JUN 2025 16:39:48



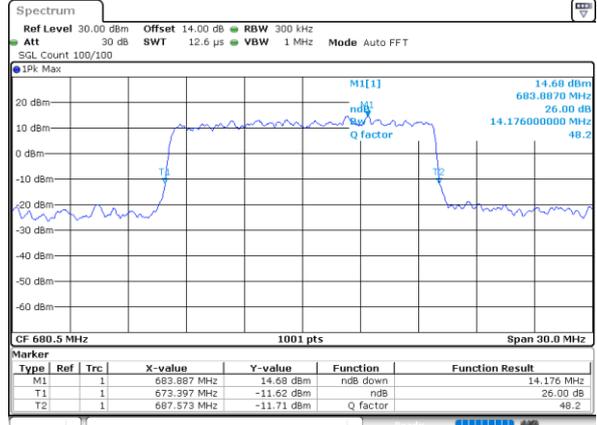
LTE Band 71

Middle Channel / 15MHz / QPSK



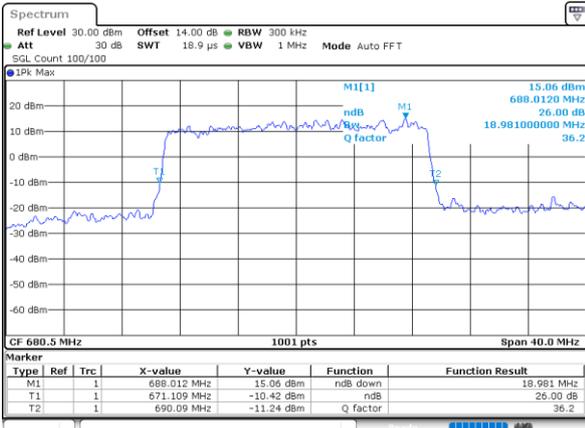
Date: 10 JUN 2025 16:55:45

Middle Channel / 15MHz / 16QAM



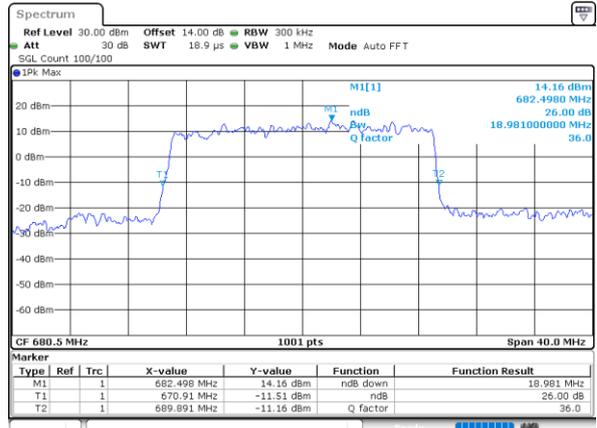
Date: 10 JUN 2025 16:56:25

Middle Channel / 20MHz / QPSK



Date: 10 JUN 2025 17:11:18

Middle Channel / 20MHz / 16QAM



Date: 10 JUN 2025 17:11:58



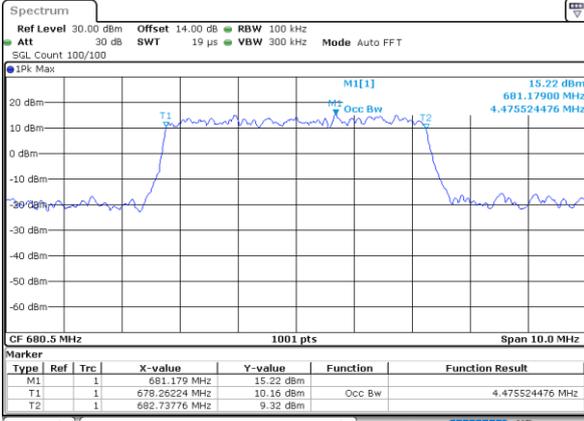
### Occupied Bandwidth

Mode	LTE Band 71 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.52	9.07	9.03	13.40	13.43	17.82	17.82



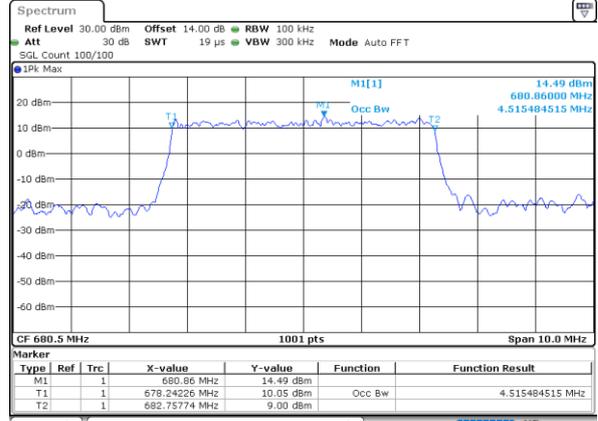
LTE Band 71

Middle Channel / 5MHz / QPSK



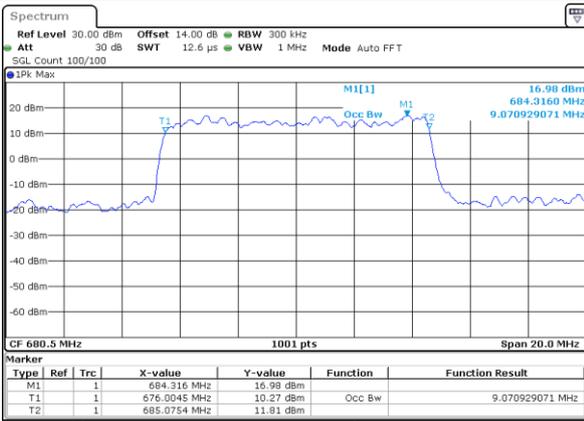
Date: 10 JUN 2025 16:23:05

Middle Channel / 5MHz / 16QAM



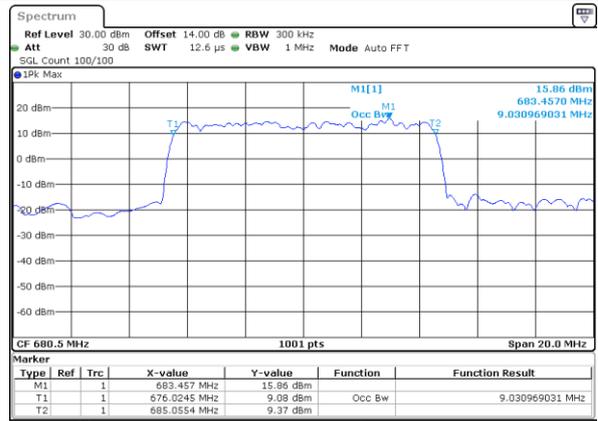
Date: 10 JUN 2025 16:23:45

Middle Channel / 10MHz / QPSK



Date: 10 JUN 2025 16:38:54

Middle Channel / 10MHz / 16QAM

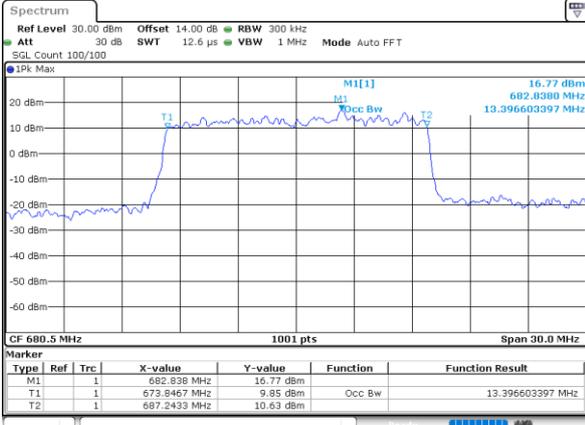


Date: 10 JUN 2025 16:39:34



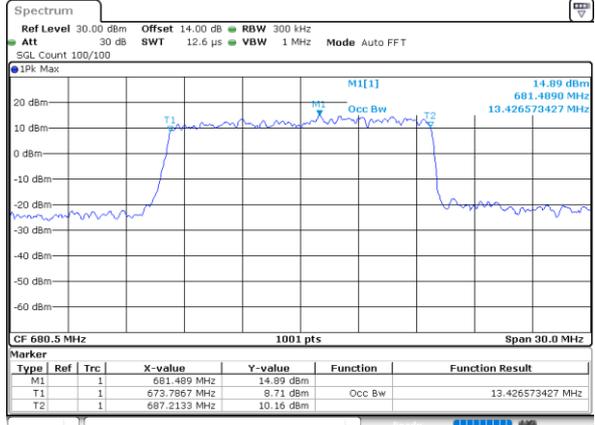
LTE Band 71

Middle Channel / 15MHz / QPSK



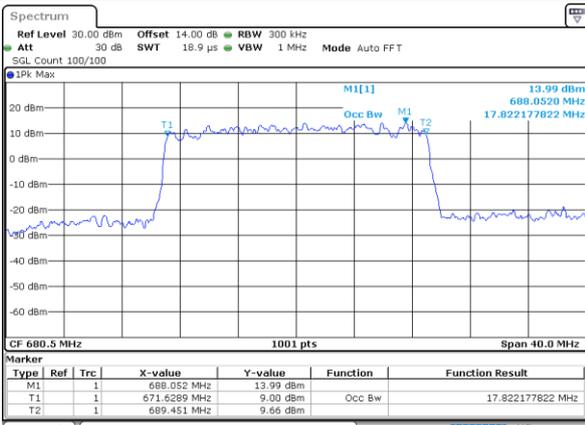
Date: 10 JUN 2025 16:55:13

Middle Channel / 15MHz / 16QAM



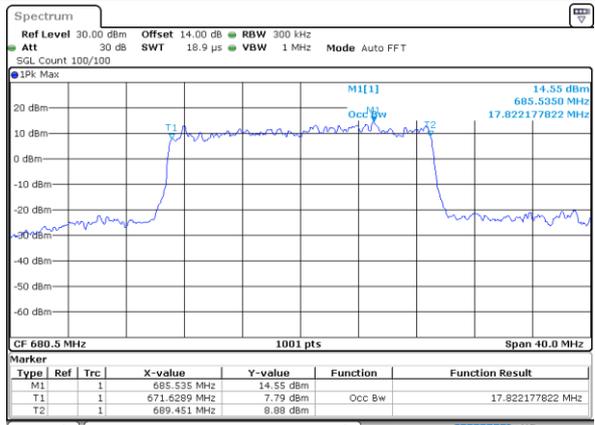
Date: 10 JUN 2025 16:56:11

Middle Channel / 20MHz / QPSK



Date: 10 JUN 2025 17:11:04

Middle Channel / 20MHz / 16QAM



Date: 10 JUN 2025 17:11:44



# Conducted Band Edge

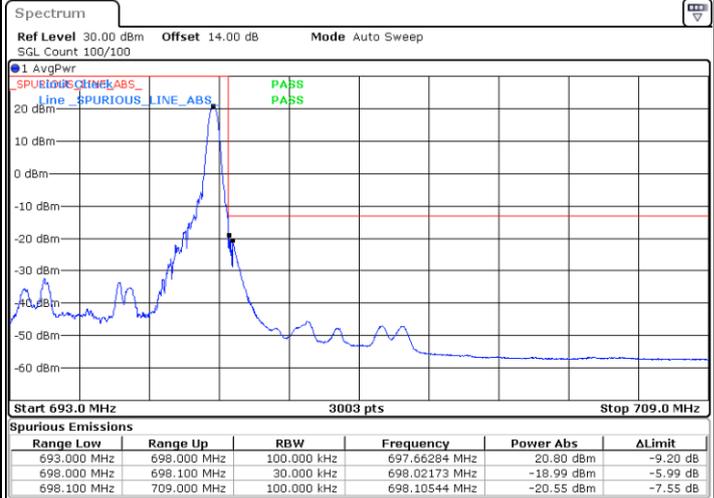
## LTE Band 71 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



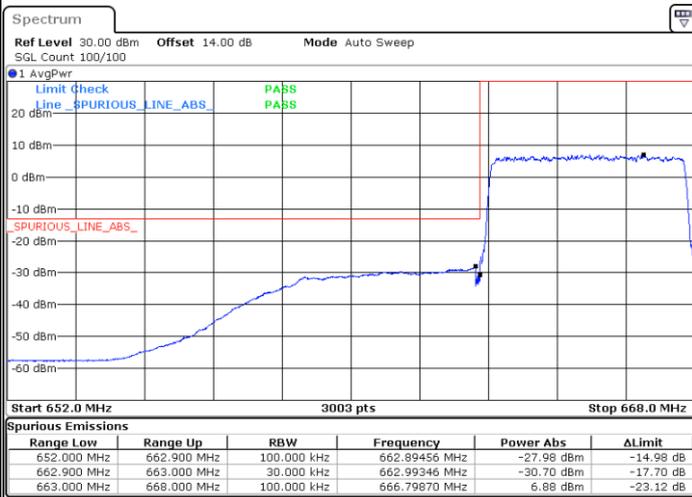
Date: 10 JUN 2025 16:16:57

### Highest Band Edge / 1 RB



Date: 10 JUN 2025 16:24:54

### Lowest Band Edge / Full RB



Date: 10 JUN 2025 16:18:48

### Highest Band Edge / Full RB

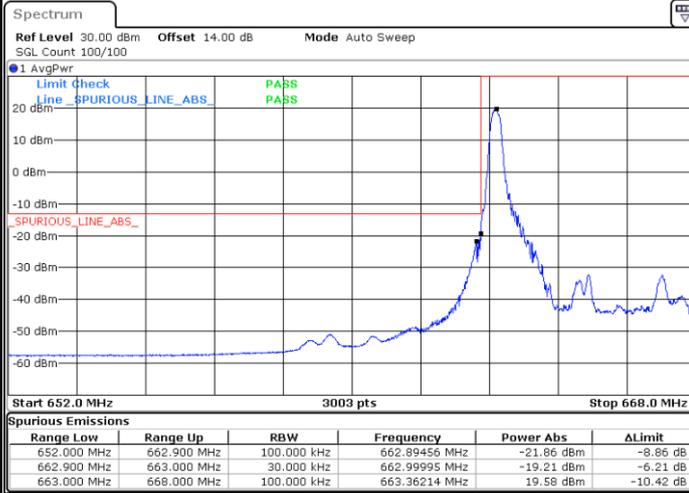


Date: 10 JUN 2025 16:27:41



LTE Band 71 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 10 JUN 2025 16:17:53

Highest Band Edge / 1 RB



Date: 10 JUN 2025 16:25:49

Lowest Band Edge / Full RB



Date: 10 JUN 2025 16:19:44

Highest Band Edge / Full RB

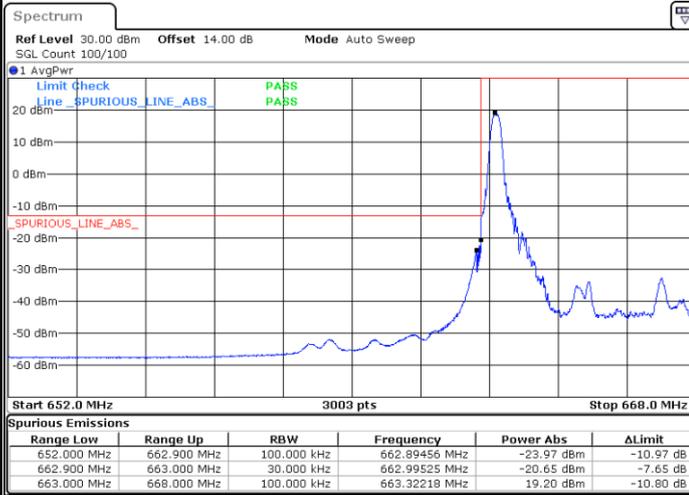


Date: 10 JUN 2025 16:28:38



LTE Band 71 / 5MHz / 64QAM

Lowest Band Edge / 1RB



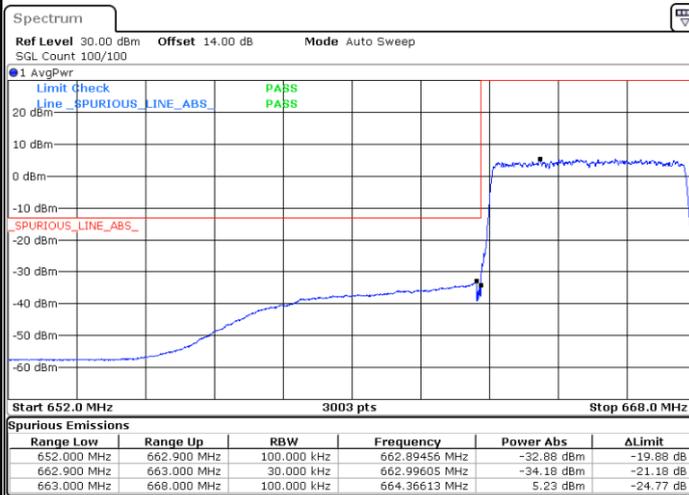
Date: 10. JUN. 2025 16:15:44

Highest Band Edge / 1 RB



Date: 10. JUN. 2025 16:26:45

Lowest Band Edge / Full RB



Date: 10. JUN. 2025 16:20:40

Highest Band Edge / Full RB

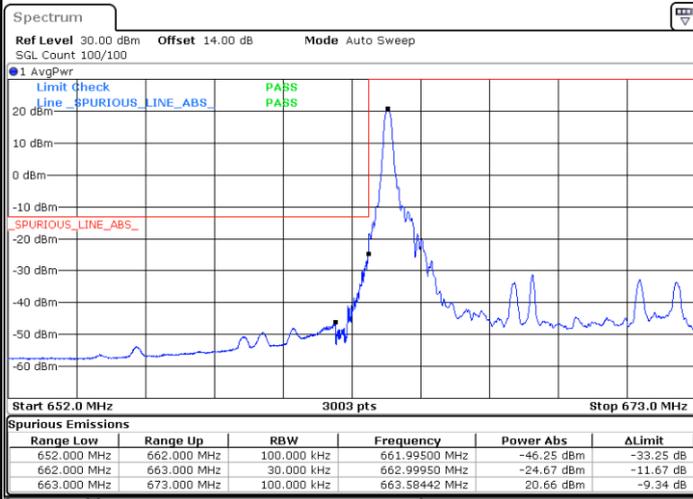


Date: 10. JUN. 2025 16:29:30



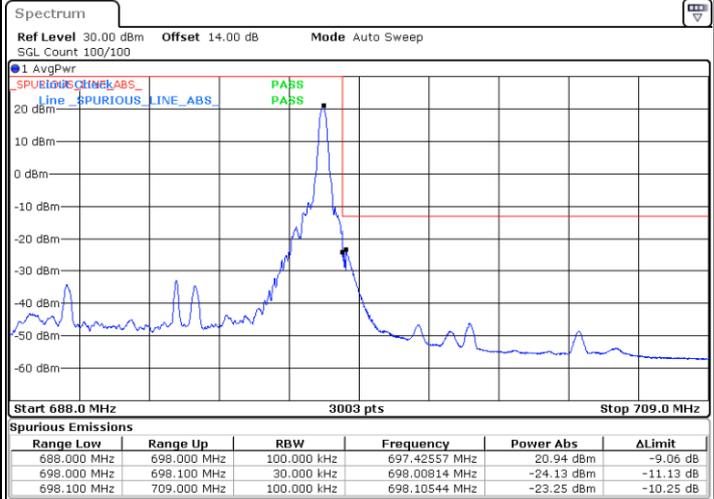
LTE Band 71 / 10MHz / QPSK

Lowest Band Edge / 1 RB



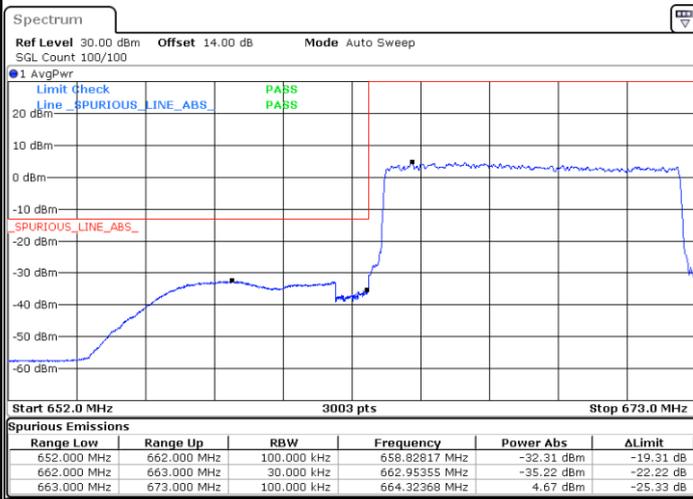
Date: 10. JUN. 2025 16:32:06

Highest Band Edge / 1 RB



Date: 10. JUN. 2025 16:40:39

Lowest Band Edge / Full RB



Date: 10. JUN. 2025 16:34:43

Highest Band Edge / Full RB

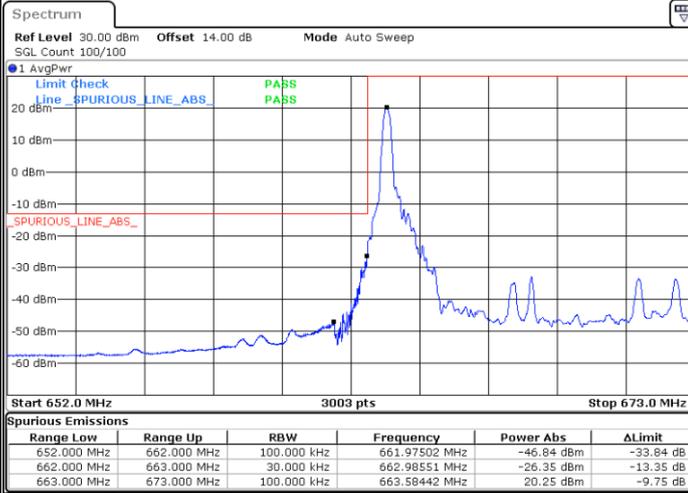


Date: 10. JUN. 2025 16:43:17



LTE Band 71 / 10MHz / 16QAM

Lowest Band Edge / 1RB



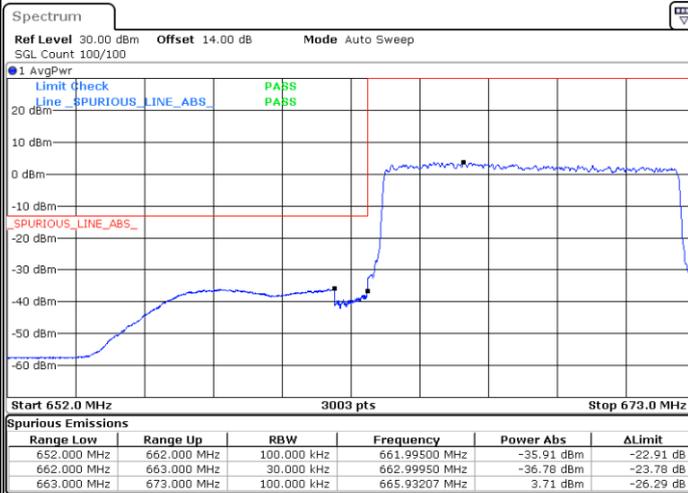
Date: 10. JUN. 2025 16:32:58

Highest Band Edge / 1 RB



Date: 10. JUN. 2025 16:41:32

Lowest Band Edge / Full RB



Date: 10. JUN. 2025 16:35:36

Highest Band Edge / Full RB

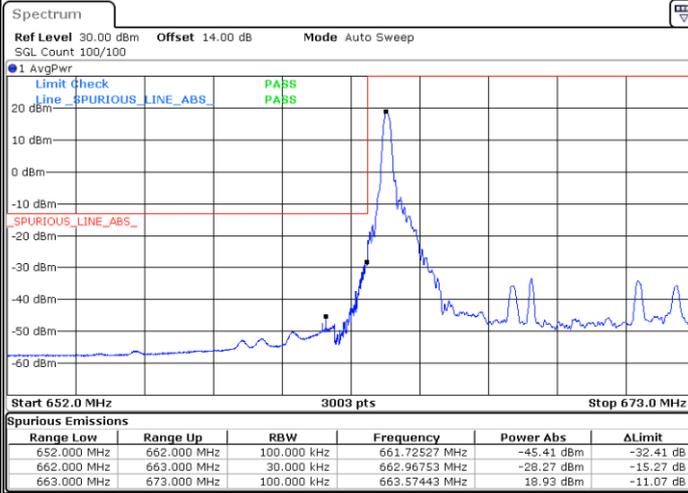


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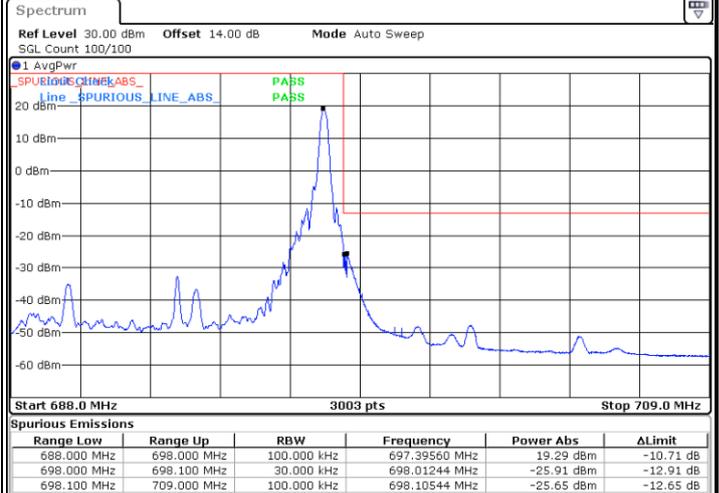
LTE Band 71 / 10MHz / 64QAM

Lowest Band Edge / 1RB



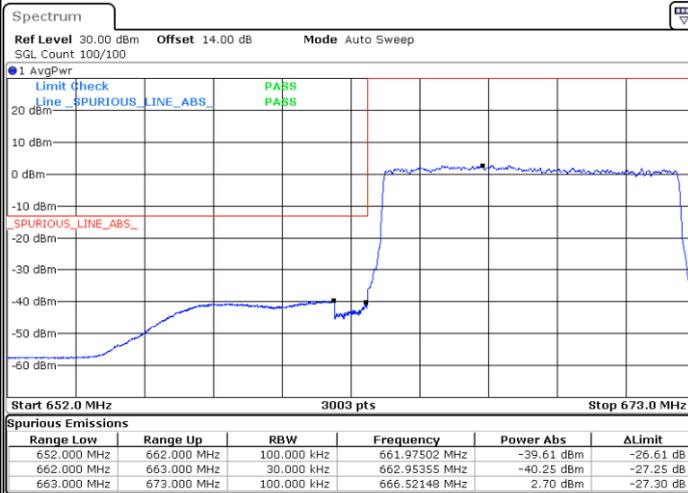
Date: 10. JUN. 2025 16:33:51

Highest Band Edge / 1 RB



Date: 10. JUN. 2025 16:42:25

Lowest Band Edge / Full RB



Date: 10. JUN. 2025 16:36:28

Highest Band Edge / Full RB

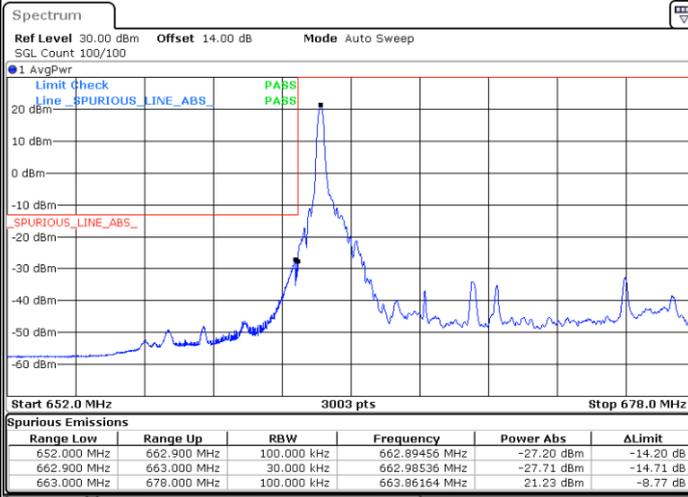


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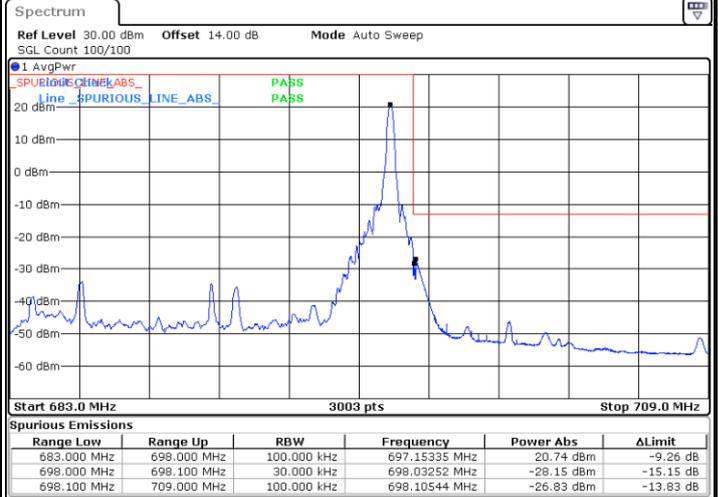
LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB



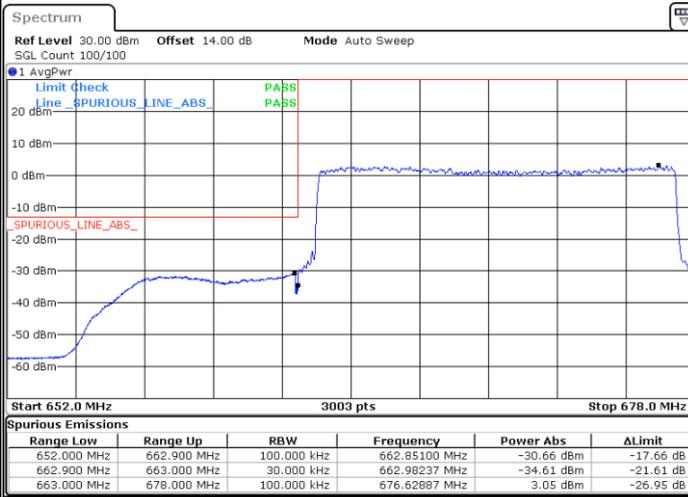
Date: 10. JUN. 2025 16:48:42

Highest Band Edge / 1 RB



Date: 10. JUN. 2025 16:57:17

Lowest Band Edge / Full RB



Date: 10. JUN. 2025 16:51:20

Highest Band Edge / Full RB

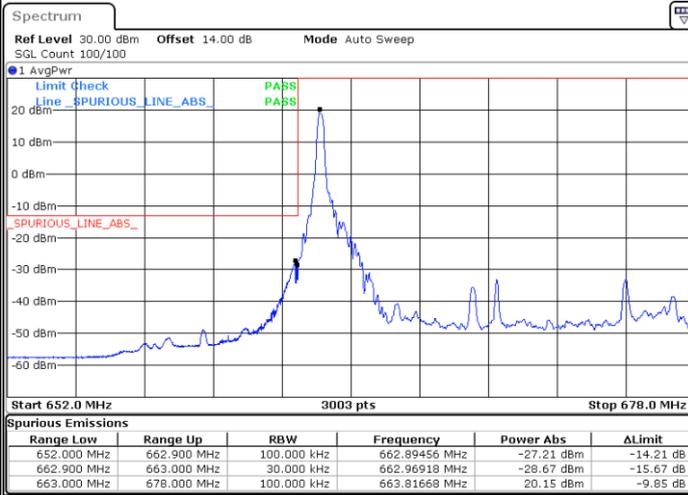


Date: 10. JUN. 2025 16:59:55



LTE Band 71 / 15MHz / 16QAM

Lowest Band Edge / 1RB



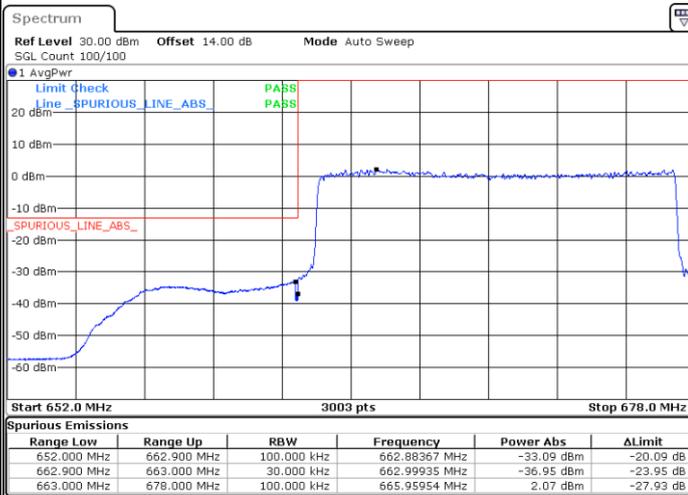
Date: 10. JUN. 2025 16:49:35

Highest Band Edge / 1 RB



Date: 10. JUN. 2025 16:58:09

Lowest Band Edge / Full RB



Date: 10. JUN. 2025 16:52:13

Highest Band Edge / Full RB

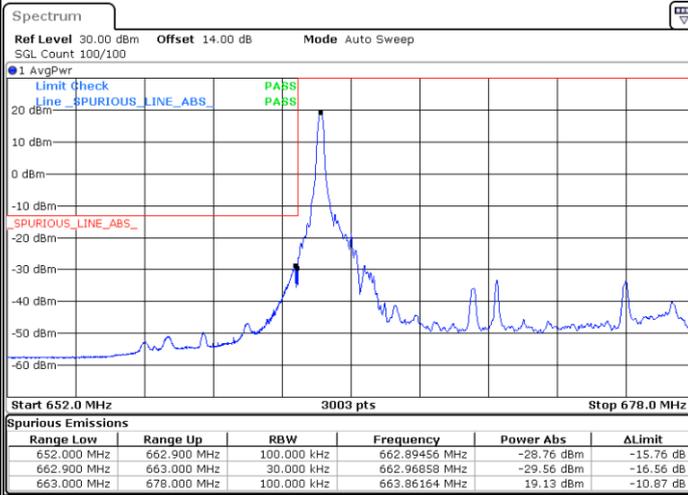


Date: 10. JUN. 2025 17:00:47



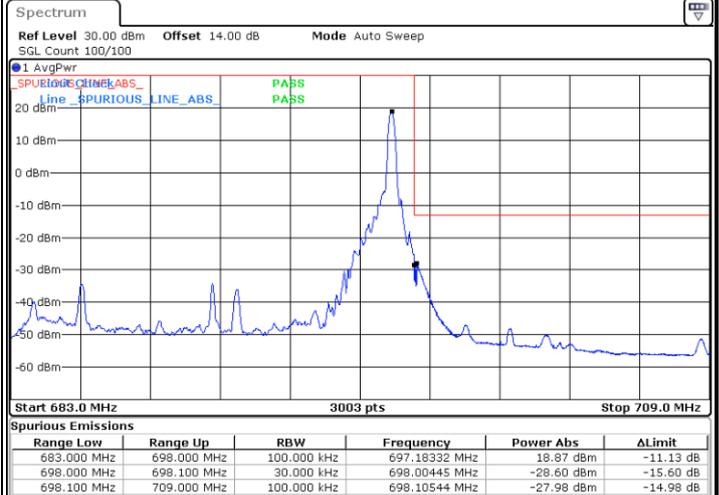
LTE Band 71 / 15MHz / 64QAM

Lowest Band Edge / 1RB



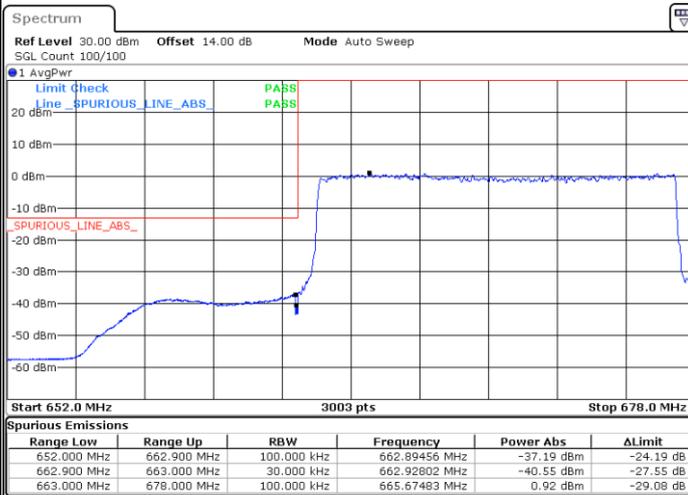
Date: 10. JUN. 2025 16:50:27

Highest Band Edge / 1 RB



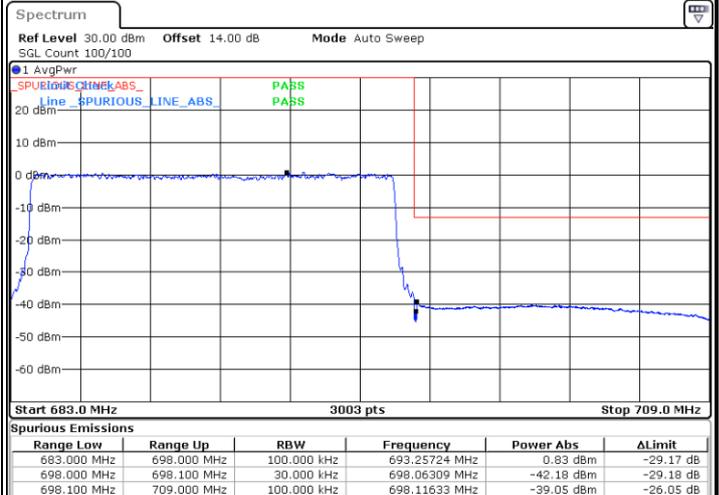
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Lowest Band Edge / Full RB



Date: 10. JUN. 2025 16:53:05

Highest Band Edge / Full RB

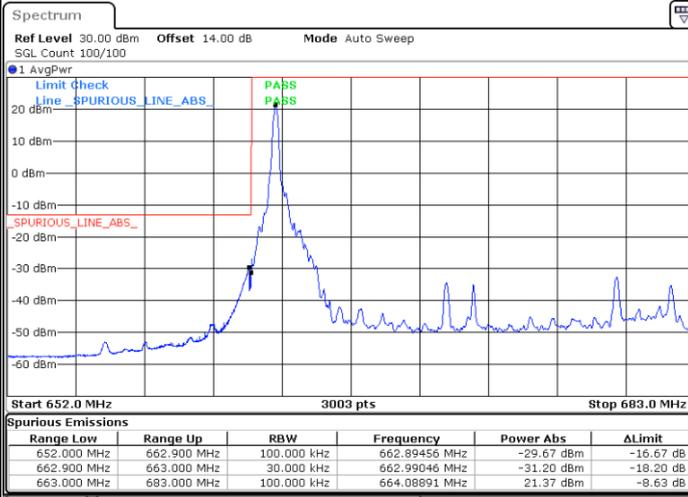


Date: 10. JUN. 2025 17:01:40



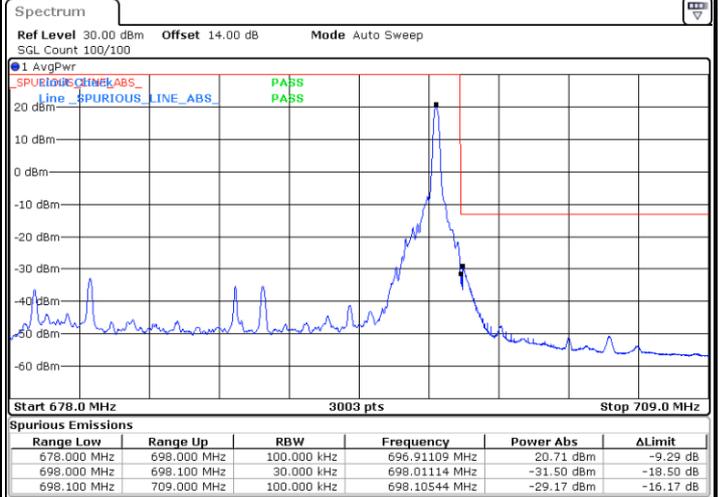
LTE Band 71 / 20MHz / QPSK

Lowest Band Edge / 1 RB



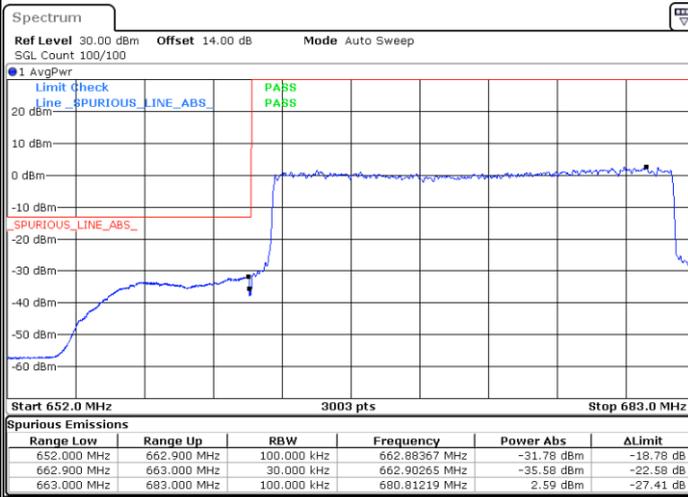
Date: 10.JUN.2025 17:04:16

Highest Band Edge / 1 RB



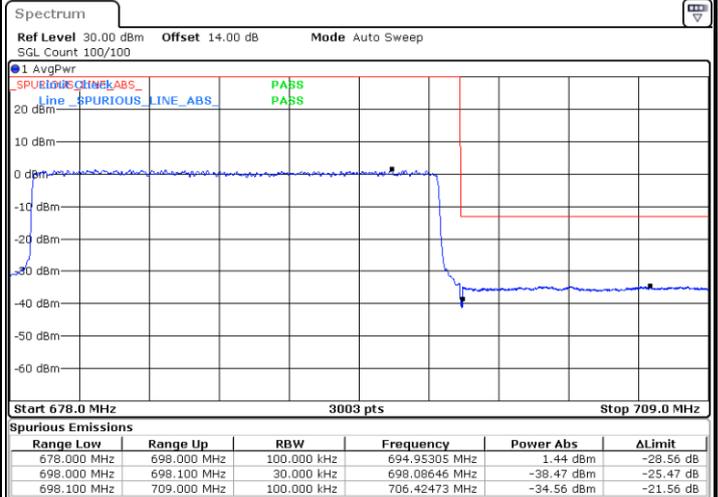
Date: 10.JUN.2025 17:14:10

Lowest Band Edge / Full RB



Date: 10.JUN.2025 17:06:54

Highest Band Edge / Full RB

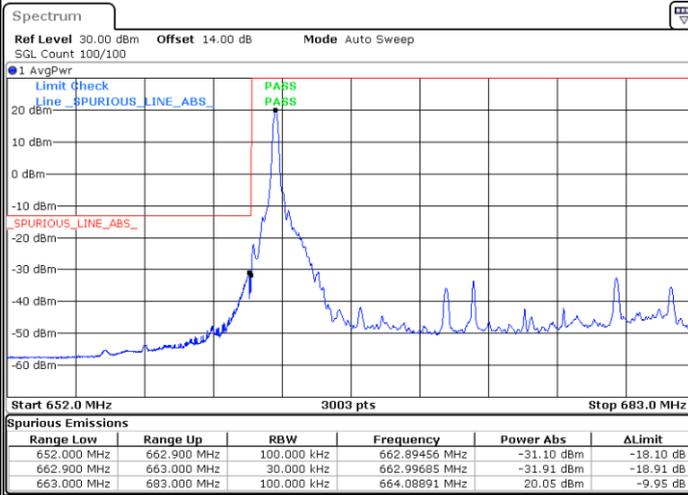


Date: 10.JUN.2025 17:16:48



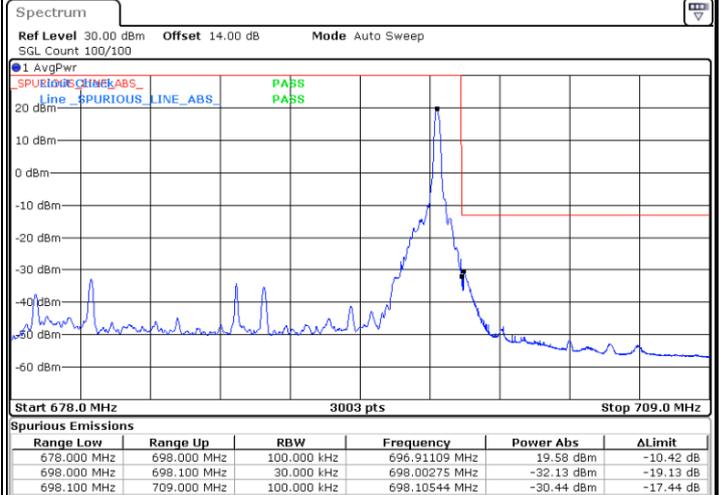
LTE Band 71 / 20MHz / 16QAM

Lowest Band Edge / 1RB



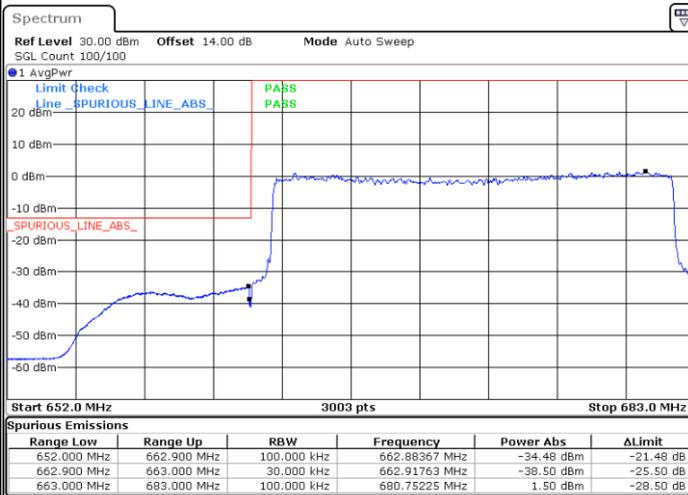
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Highest Band Edge / 1 RB



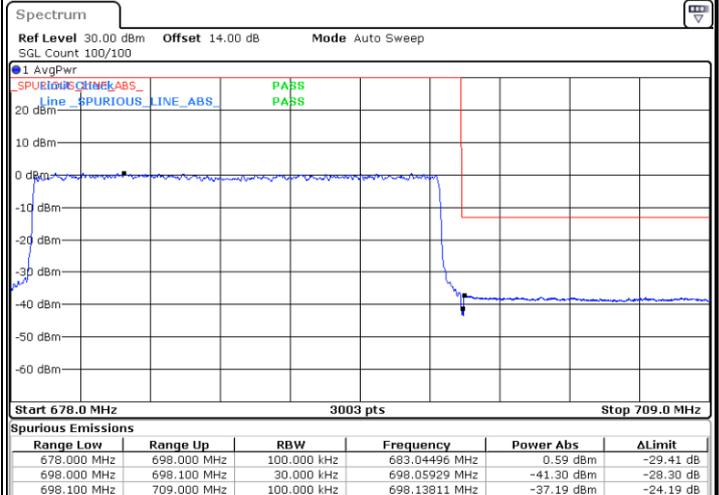
Date: 10.JUN.2025 17:15:03

Lowest Band Edge / Full RB



Date: 10.JUN.2025 17:07:46

Highest Band Edge / Full RB

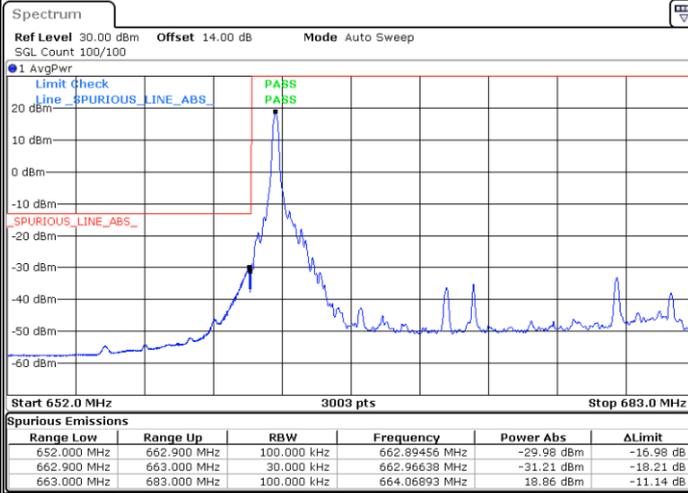


Date: 10.JUN.2025 17:17:41



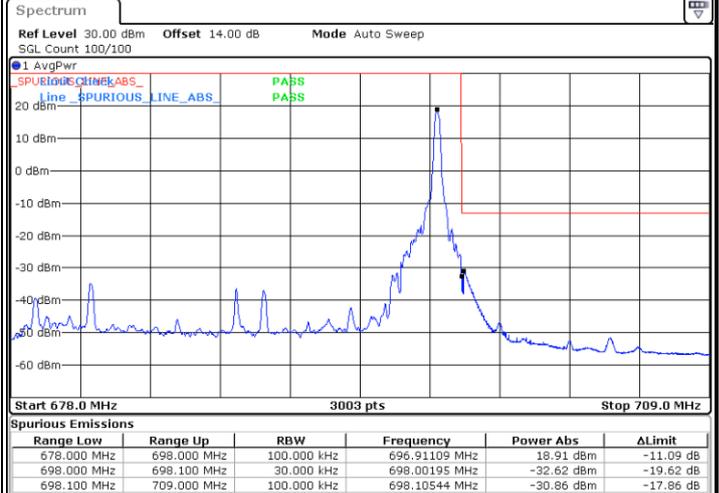
LTE Band 71 / 20MHz / 64QAM

Lowest Band Edge / 1RB



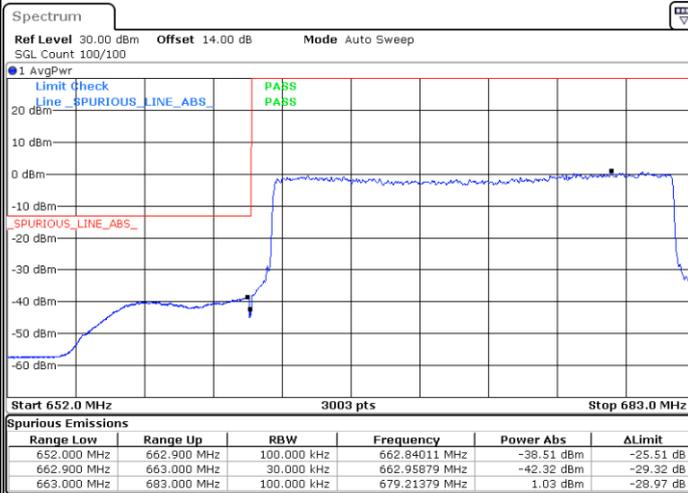
Date: 10.JUN.2025 17:06:01

Highest Band Edge / 1 RB



Date: 10.JUN.2025 17:15:56

Lowest Band Edge / Full RB



Date: 10.JUN.2025 17:08:39

Highest Band Edge / Full RB



Date: 10.JUN.2025 17:18:34

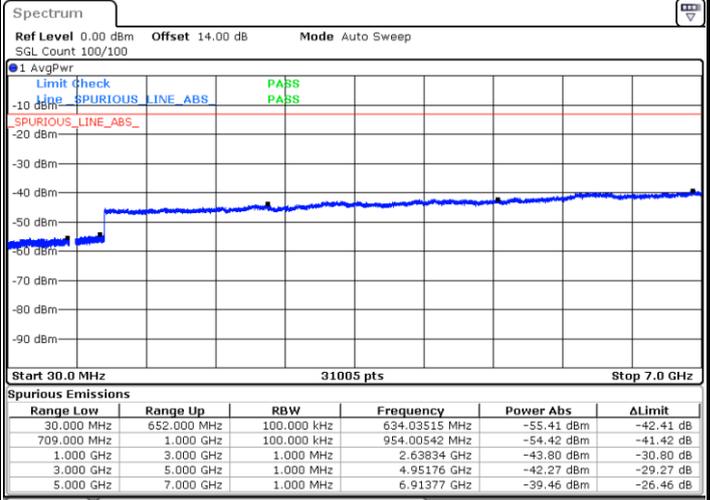
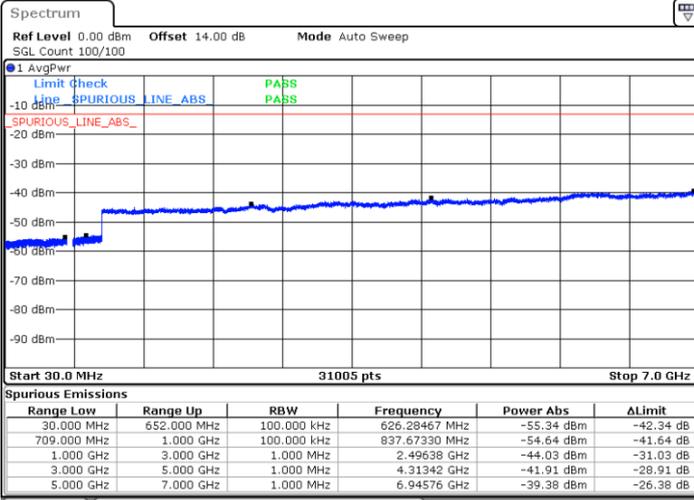


# Conducted Spurious Emission

## LTE Band 71 / 5MHz

### Lowest Channel / QPSK

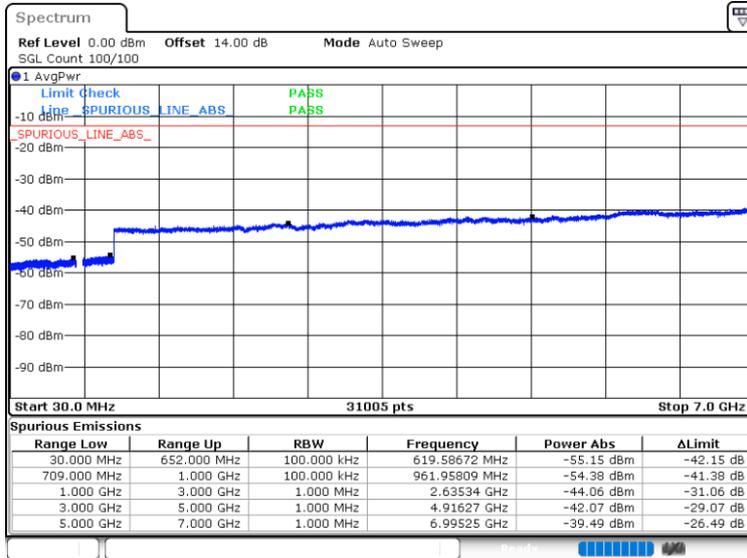
### Middle Channel / QPSK



Date: 10 JUN.2025 16:21:40

Date: 10 JUN.2025 16:22:39

### Highest Channel / QPSK



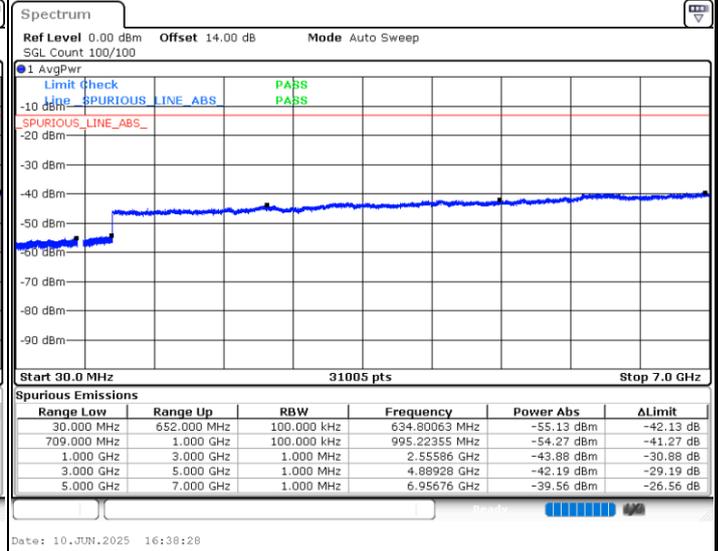
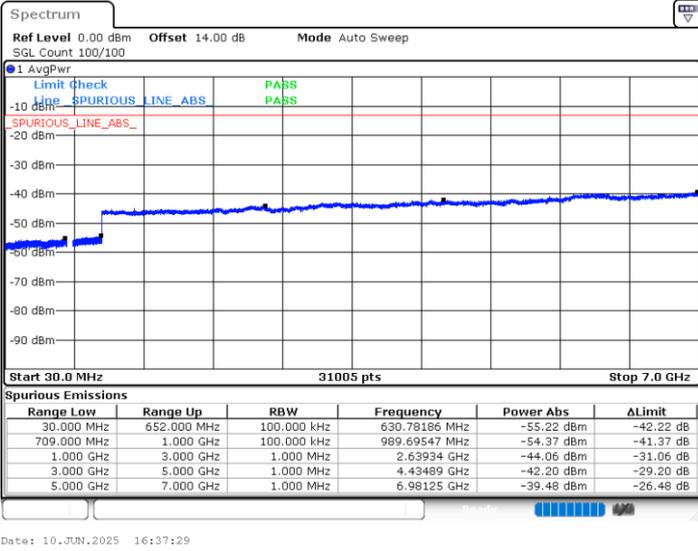
Date: 10 JUN.2025 16:30:30



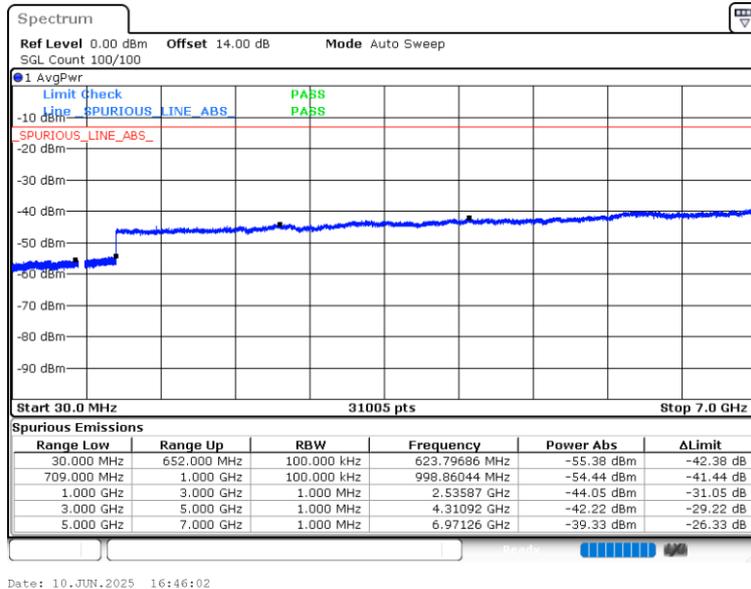
LTE Band 71 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

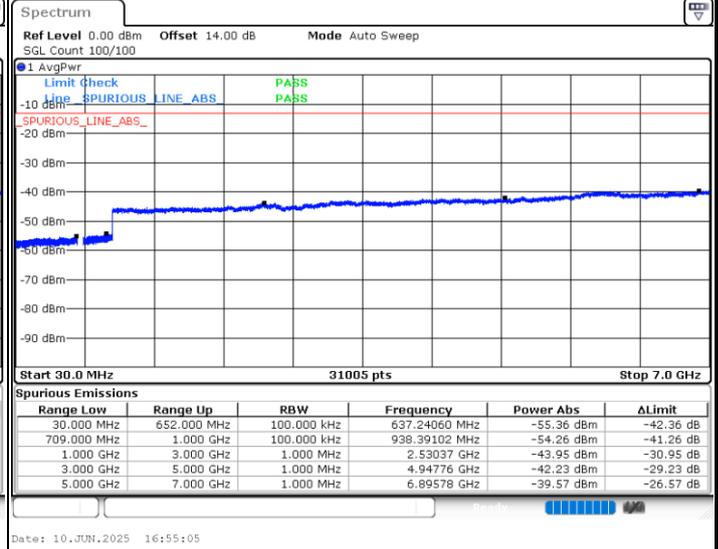
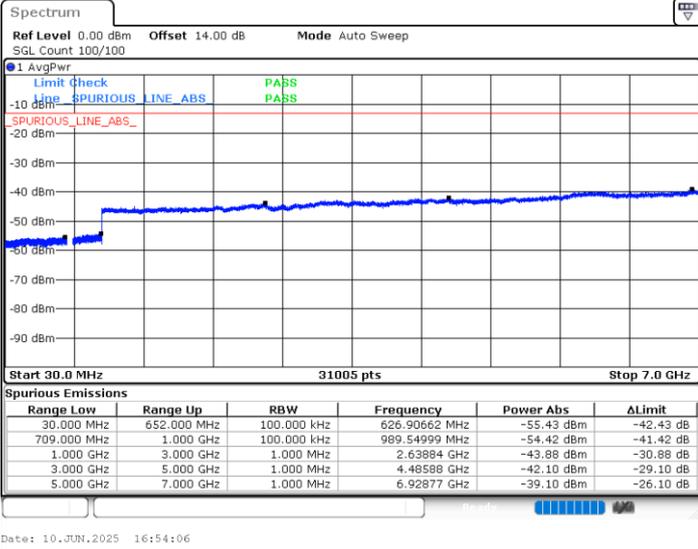




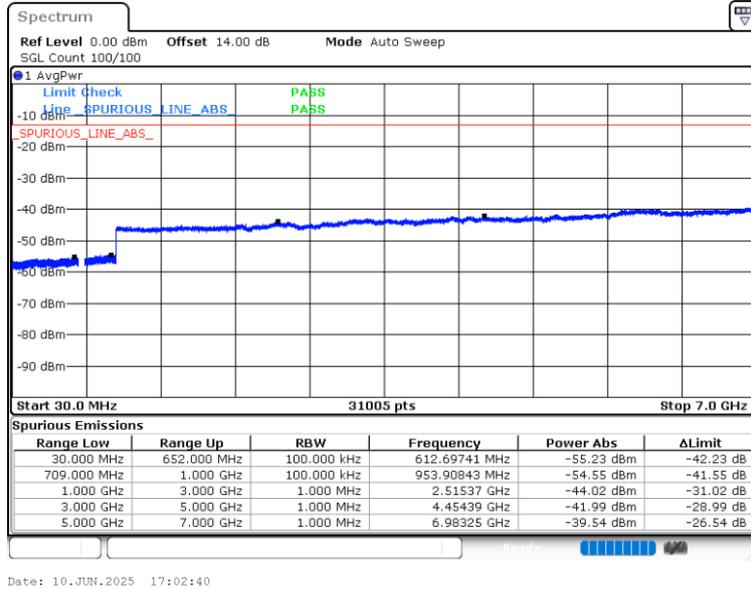
LTE Band 71 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

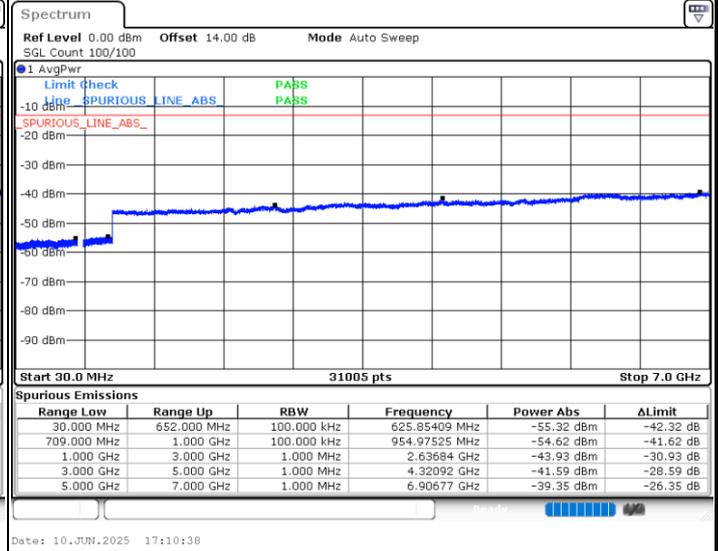
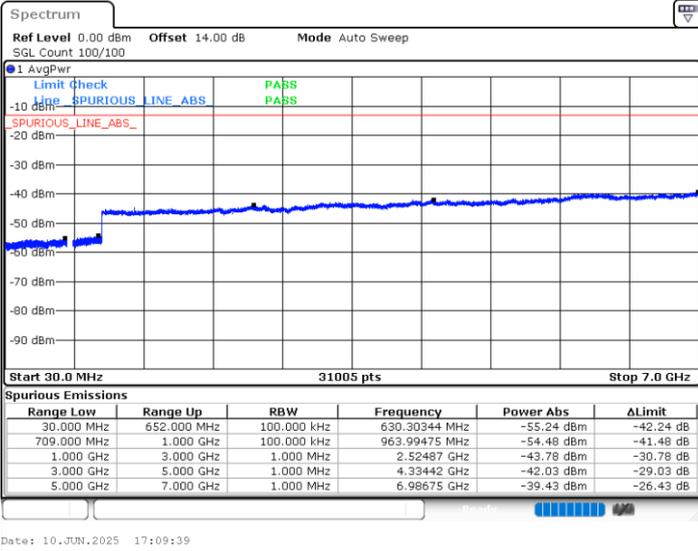




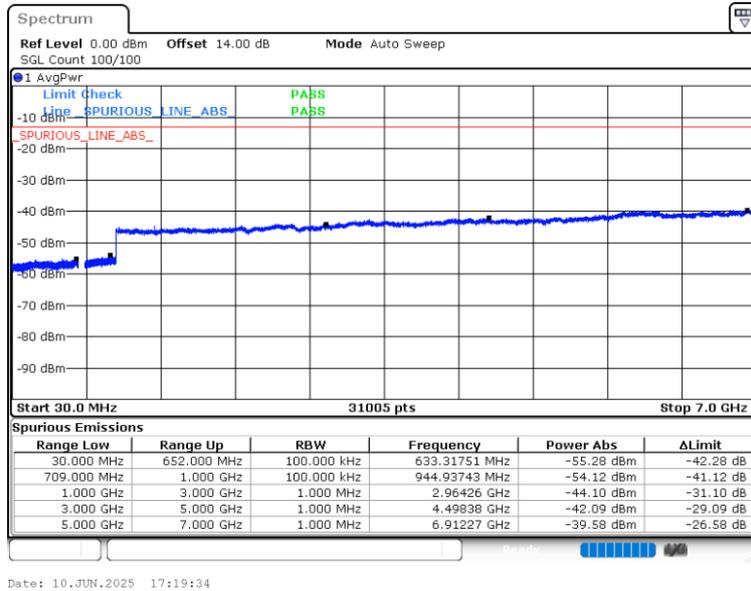
LTE Band 71 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





### Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

**Note:**

1. Normal Voltage = 3.93 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

Test Engineer :	LiangPing Zhou	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

LTE Band 12 / 10MHz / QPSK / ANT1									
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	1406	-63.50	-13	-50.50	-73.77	-66.75	4.00	9.40	H
	2109	-63.76	-13	-50.76	-76.53	-67.33	4.88	10.60	H
	2812	-61.99	-13	-48.99	-77.31	-66.92	5.52	12.60	H
	1406	-64.63	-13	-51.63	-74.46	-67.88	4.00	9.40	V
	2109	-63.65	-13	-50.65	-76.37	-67.22	4.88	10.60	V
	2812	-62.06	-13	-49.06	-77.57	-66.99	5.52	12.60	V

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

LTE Band 13 / 5MHz / QPSK / ANT0									
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	1559.5	-57.74	-42.15	-15.59	-67.34	-60.99	4.00	9.40	H
	2339.25	-62.90	-13	-49.90	-77.22	-66.47	4.88	10.60	H
	3119	-61.27	-13	-48.27	-77.65	-66.20	5.52	12.60	H
	1559.5	-57.15	-42.15	-15.00	-66.83	-60.40	4.00	9.40	V
	2339.25	-62.83	-13	-49.83	-77.15	-66.40	4.88	10.60	V
	3119	-61.49	-13	-48.49	-77.91	-66.42	5.52	12.60	V

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



LTE Band 13 / 10MHz / QPSK /ANT0									
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	1559.5	-63.79	-42.15	-21.64	-73.39	-67.04	4.00	9.40	H
	2339.25	-62.67	-13	-49.67	-76.99	-66.24	4.88	10.60	H
	3119	-61.35	-13	-48.35	-77.73	-66.28	5.52	12.60	H
	1559.5	-62.73	-42.15	-20.58	-72.41	-65.98	4.00	9.40	V
	2339.25	-62.95	-13	-49.95	-77.27	-66.52	4.88	10.60	V
	3119	-61.45	-13	-48.45	-77.87	-66.38	5.52	12.60	V

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

LTE Band 71 / 20MHz / QPSK /ANT1									
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	1348	-61.29	-13	-48.29	-70.89	-64.54	4.00	9.40	H
	2022	-65.43	-13	-52.43	-76.59	-69.00	4.88	10.60	H
	2696	-62.58	-13	-49.58	-77.28	-67.51	5.52	12.60	H
	1348	-63.96	-13	-50.96	-73.19	-67.21	4.00	9.40	V
	2022	-65.54	-13	-52.54	-76.59	-69.11	4.88	10.60	V
	2696	-62.44	-13	-49.44	-77.18	-67.37	5.52	12.60	V

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