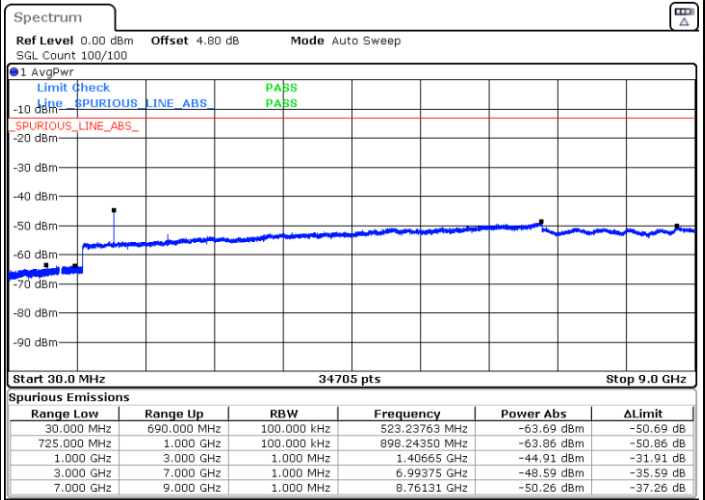
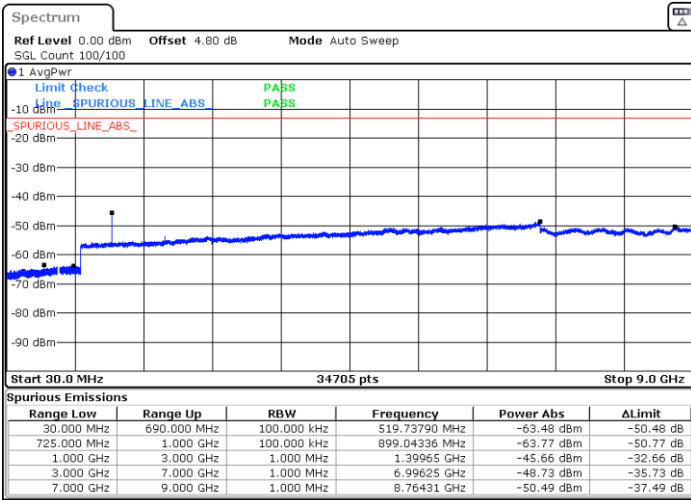




LTE Band 12 / 10MHz

Lowest Channel / QPSK

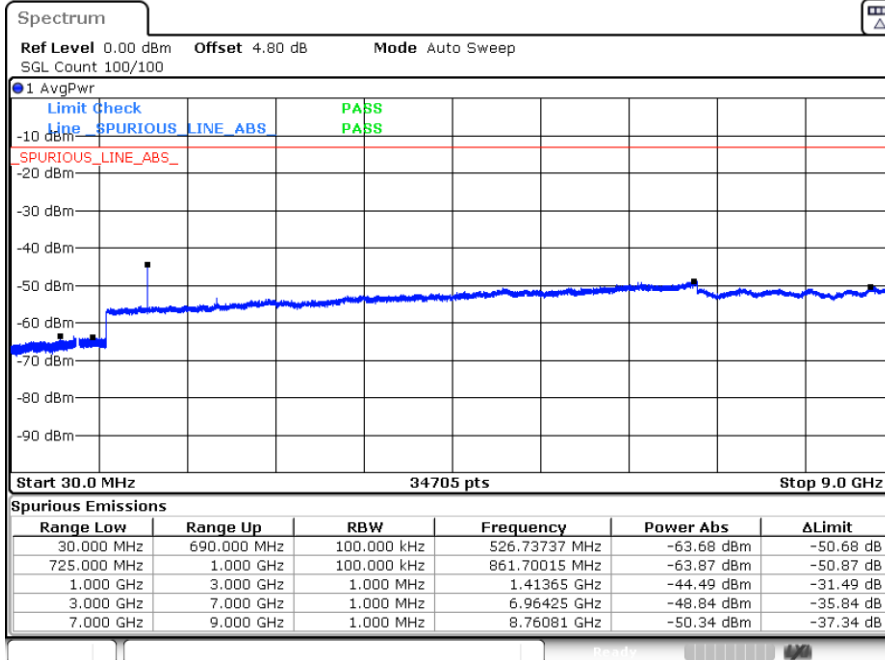
Middle Channel / QPSK



Date: 26.SEP.2024 11:57:44

Date: 26.SEP.2024 12:09:27

Highest Channel / QPSK



Date: 26.SEP.2024 12:10:54



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.00014	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0028	
20	Battery End Point	0.0021	

Note:

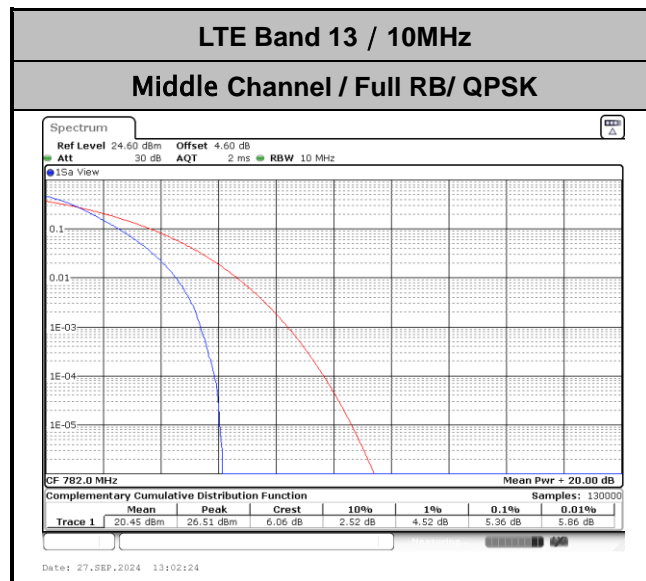
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

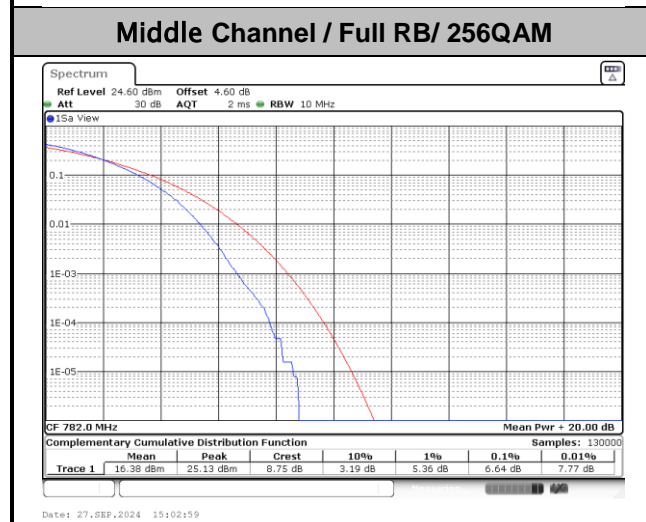
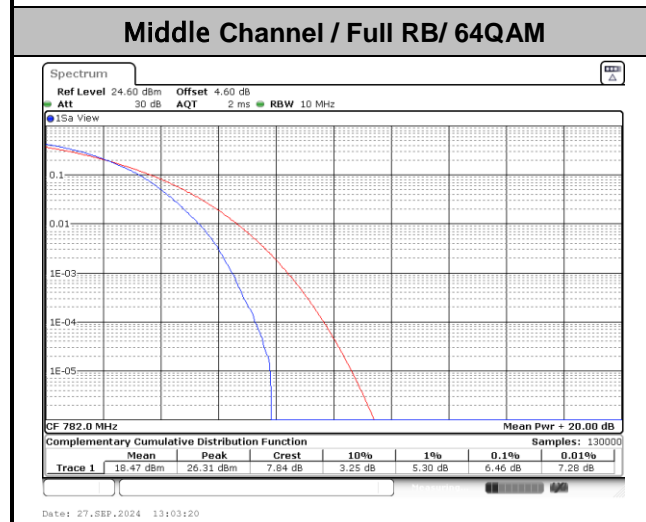
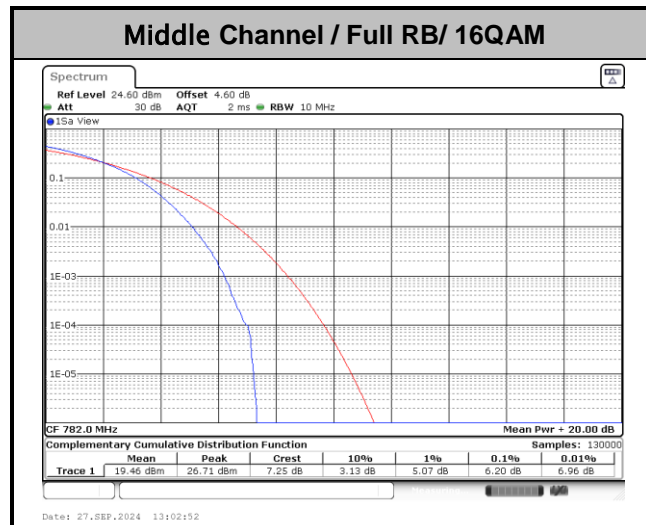


LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.36	6.20	6.46	6.64	PASS



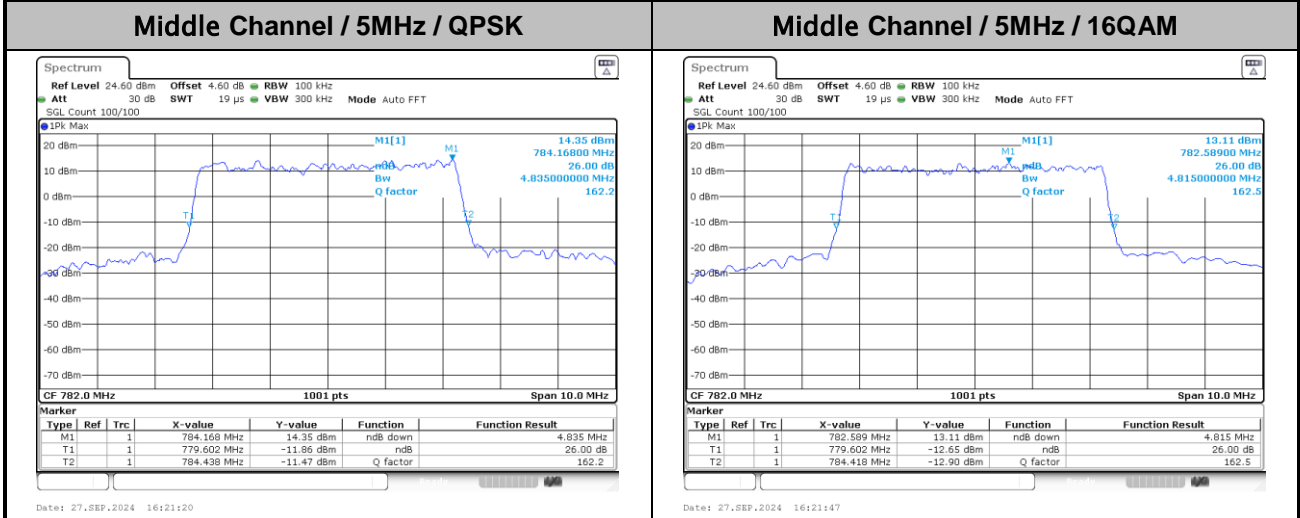




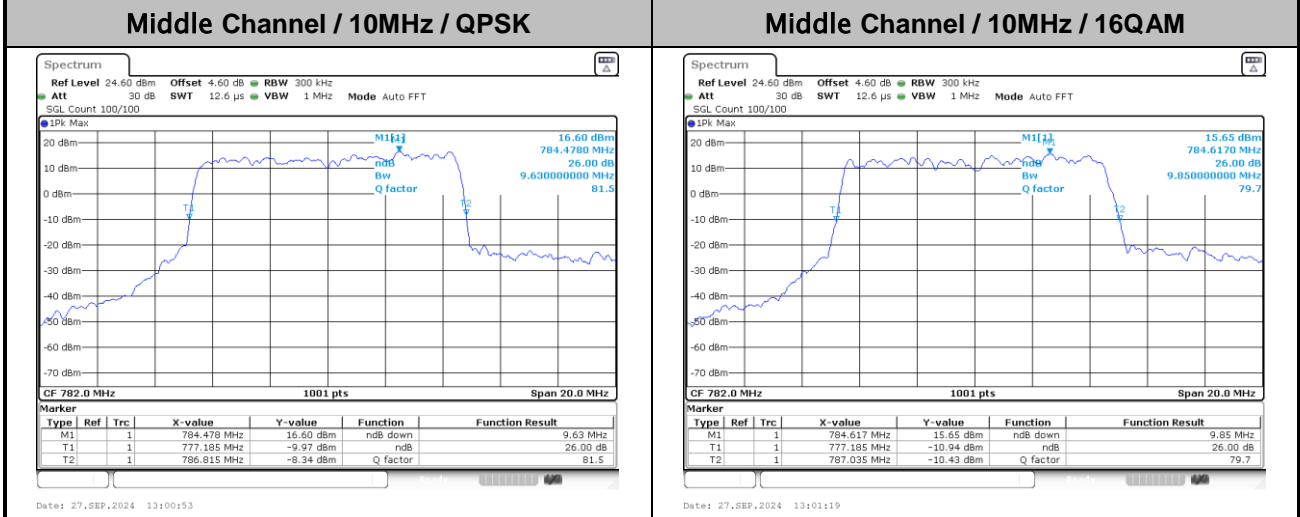
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)		
BW	5MHz		
Mod.	QPSK		16QAM
Middle CH	4.84		4.82
BW	10MHz		
Mod.	QPSK		16QAM
Middle CH	9.63		9.85

LTE Band 13



LTE Band 13

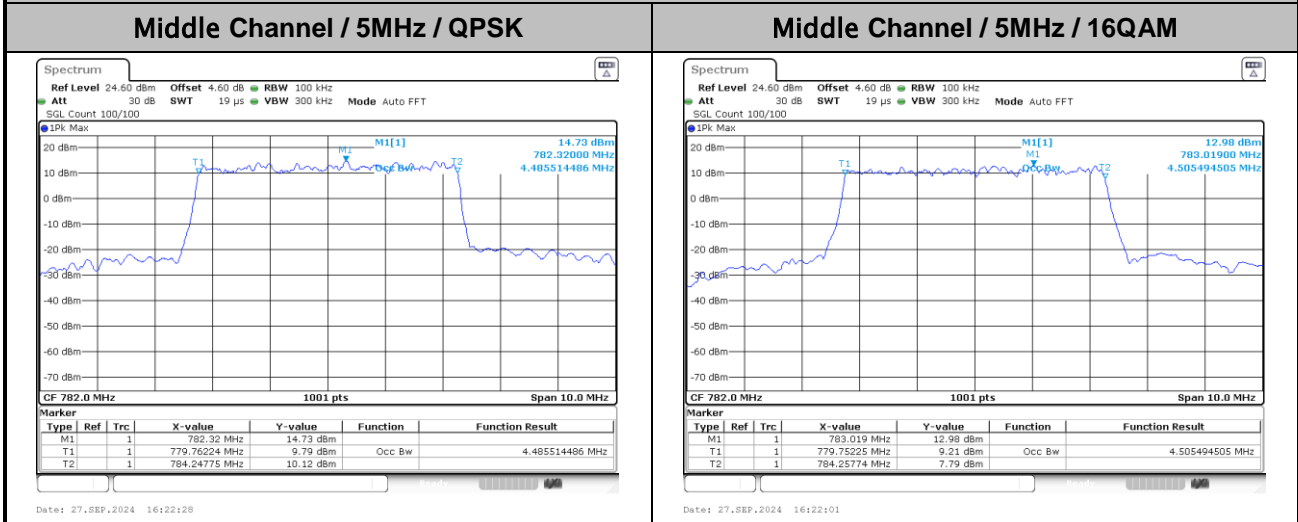




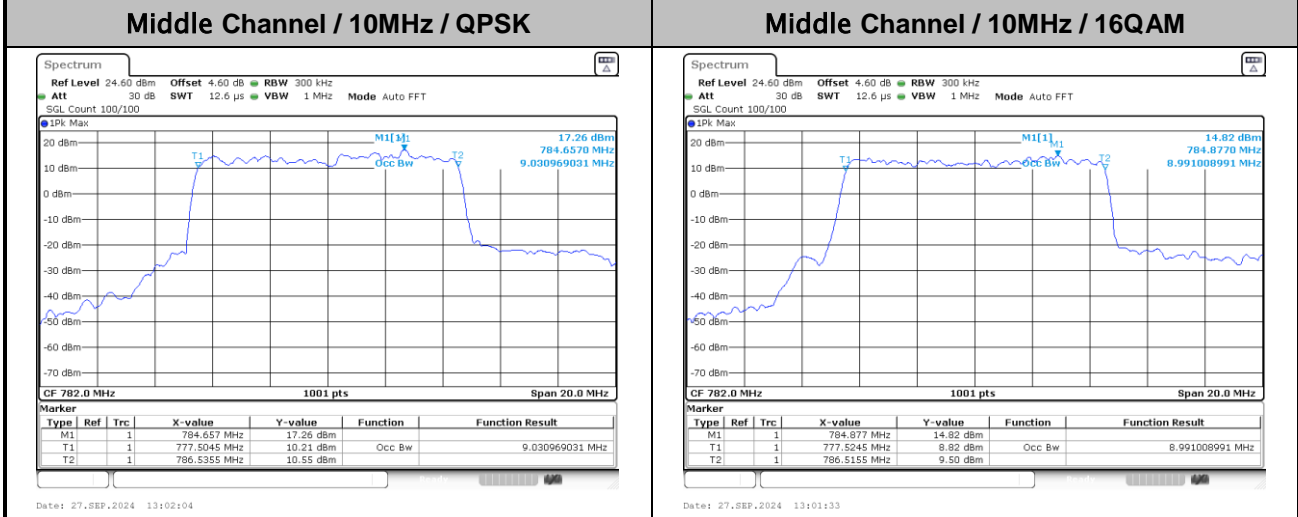
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.51
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.99

LTE Band 13



LTE Band 13

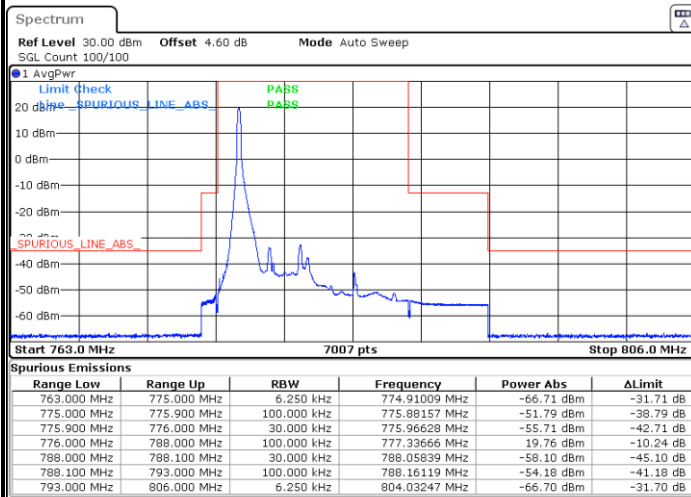




Conducted Band Edge

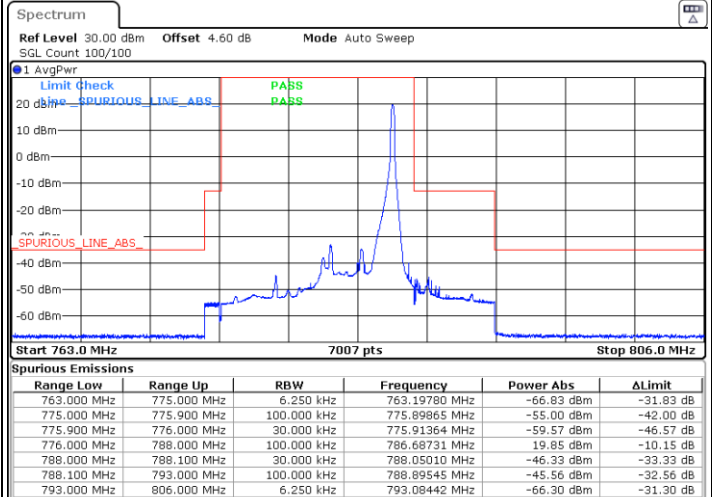
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



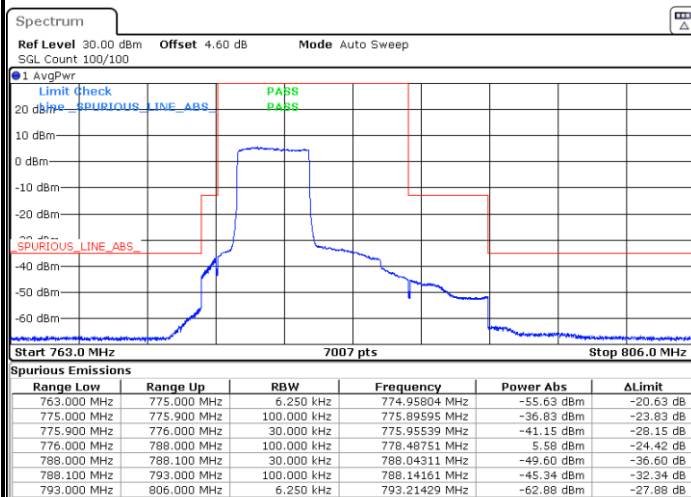
Date: 27.SEP.2024 16:12:14

Highest Band Edge / 1 RB



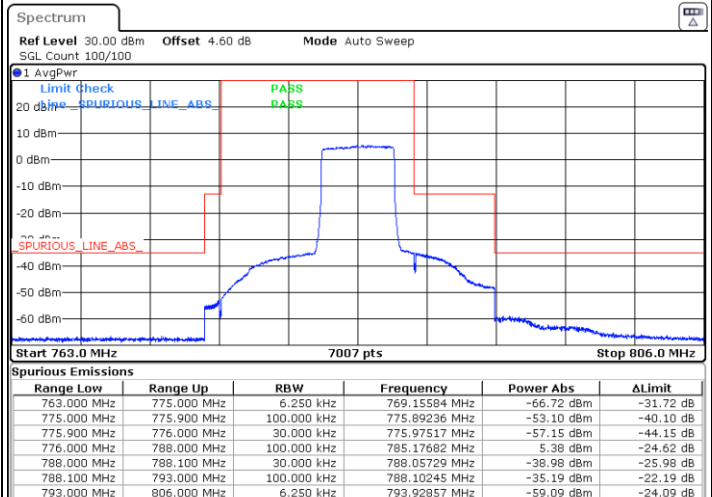
Date: 27.SEP.2024 16:25:21

Lowest Band Edge / Full RB



Date: 27.SEP.2024 16:16:34

Highest Band Edge / Full RB



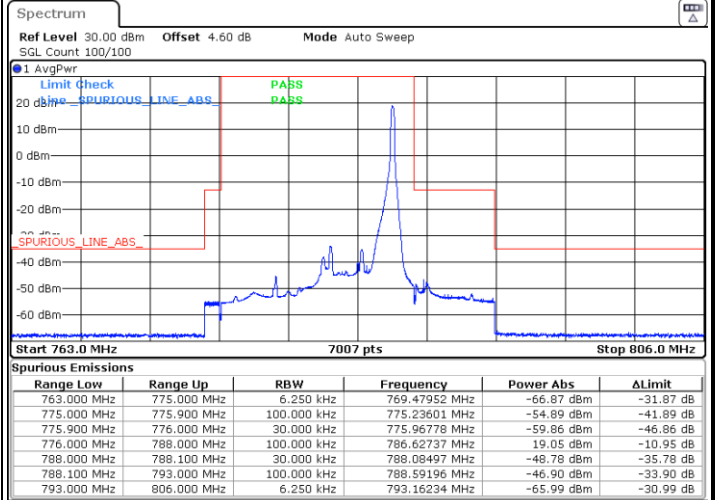
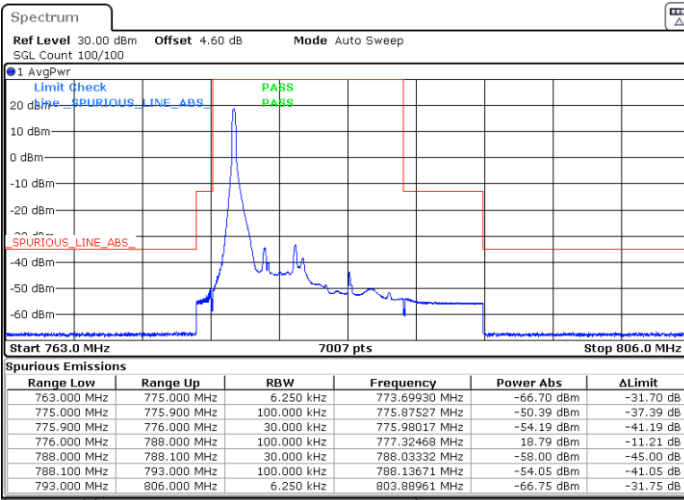
Date: 27.SEP.2024 16:29:40



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

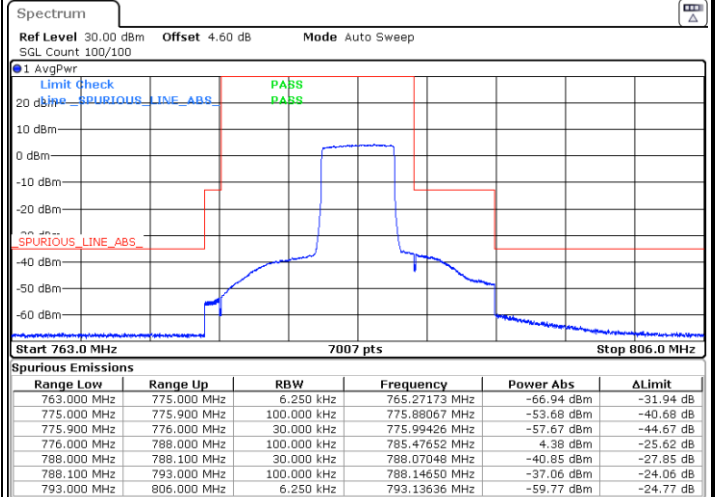
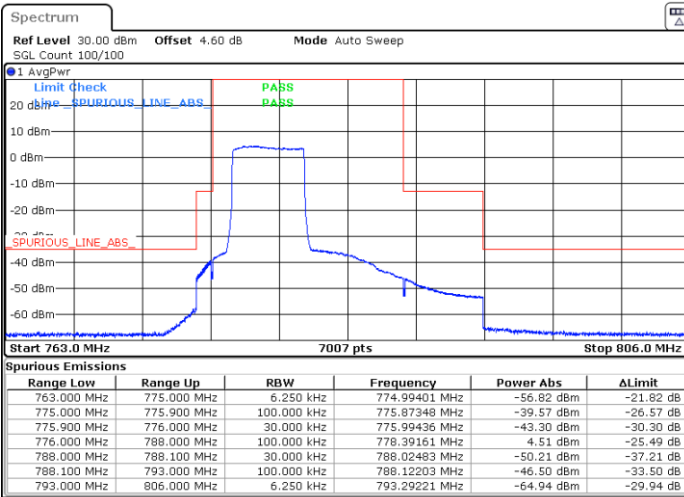


Date: 27.SEP.2024 16:13:41

Date: 27.SEP.2024 16:26:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.SEP.2024 16:18:00

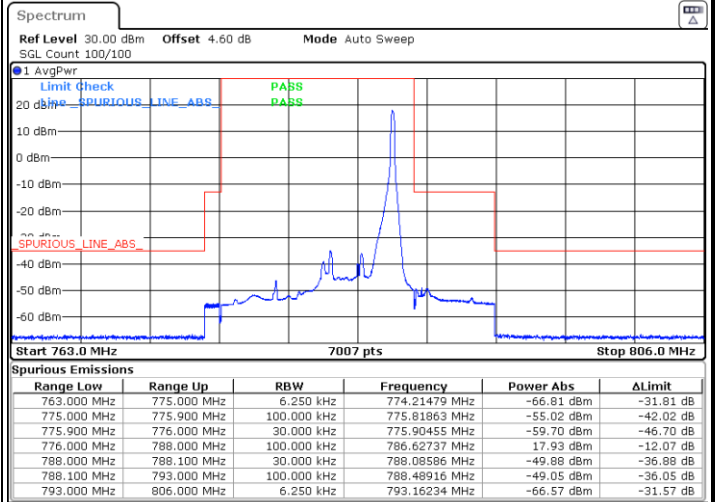
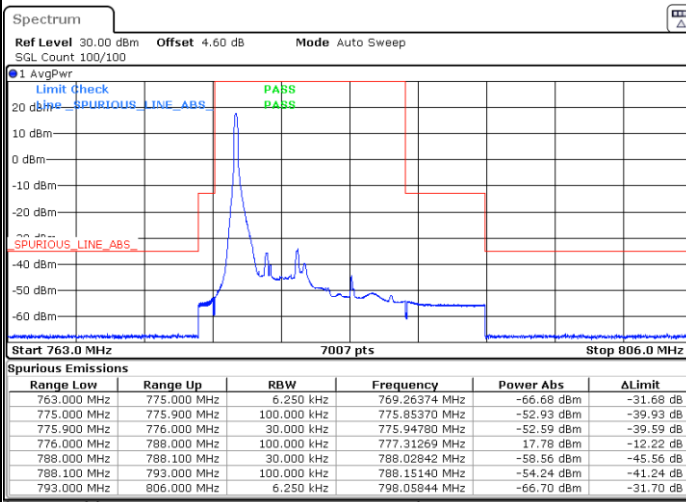
Date: 27.SEP.2024 16:31:06



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

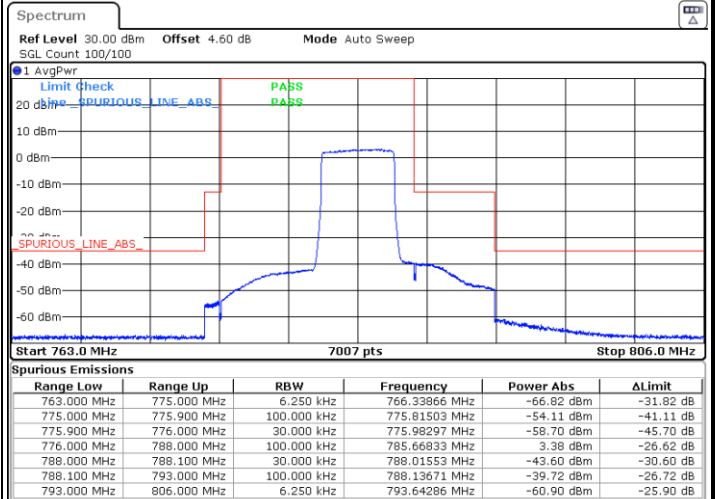
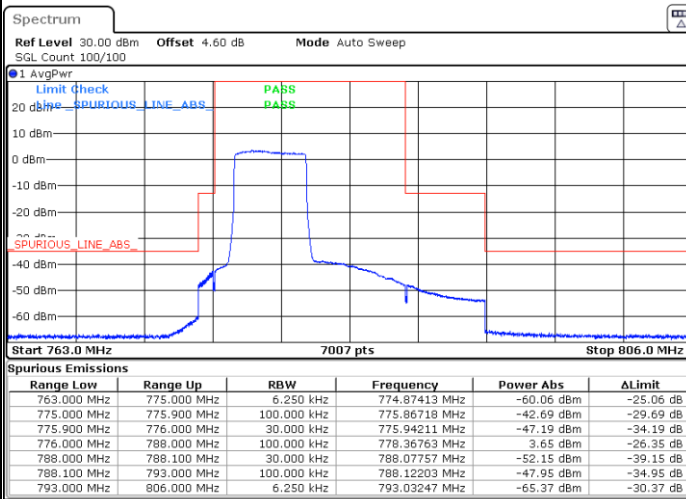


Date: 27.SEP.2024 16:15:07

Date: 27.SEP.2024 16:28:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.SEP.2024 16:19:26

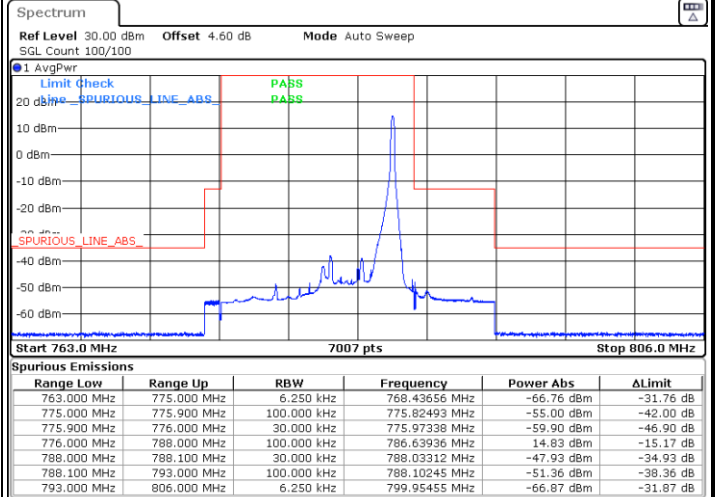
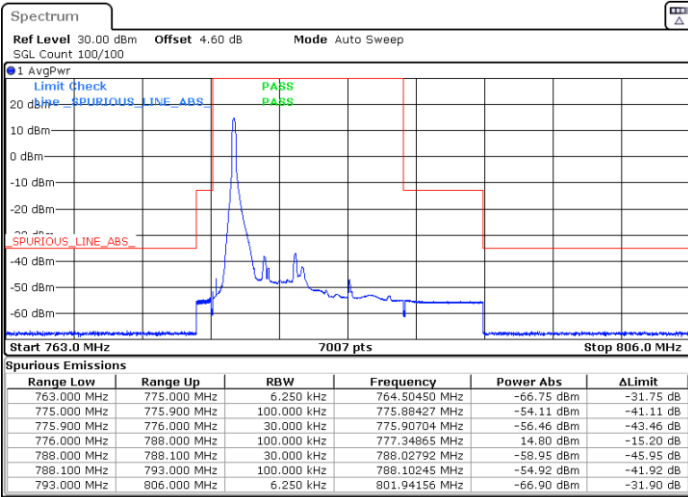
Date: 27.SEP.2024 16:32:32



LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

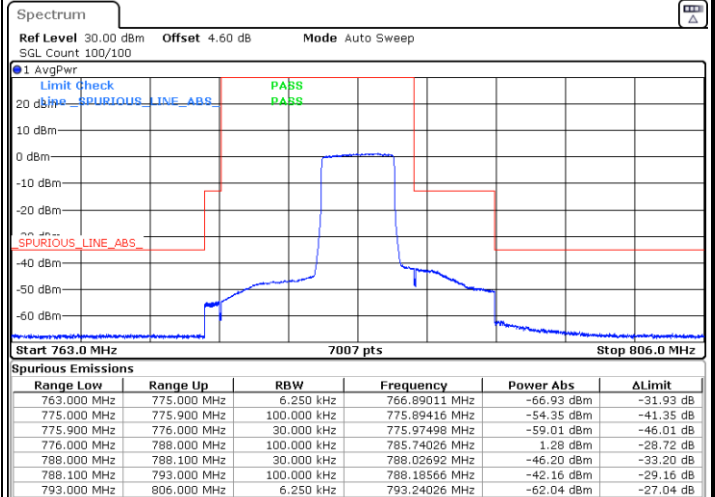
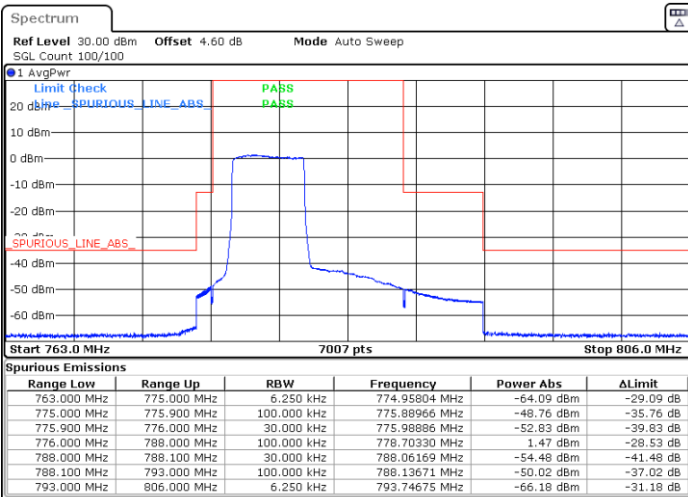


Date: 27_SEP.2024 14:47:53

Date: 27_SEP.2024 14:50:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



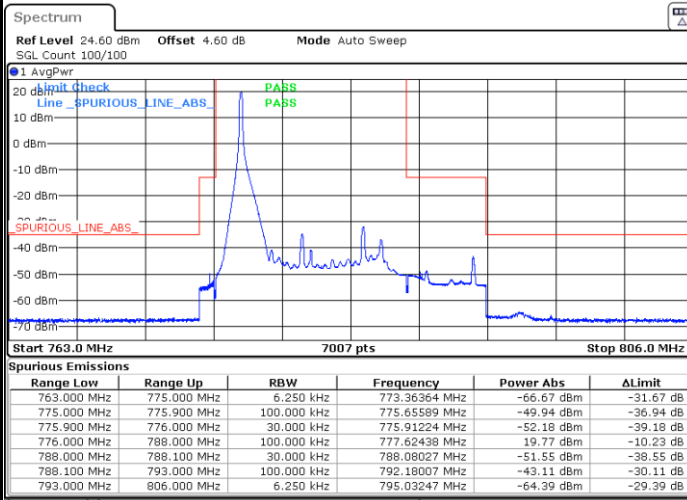
Date: 27_SEP.2024 14:49:19

Date: 27_SEP.2024 14:52:12



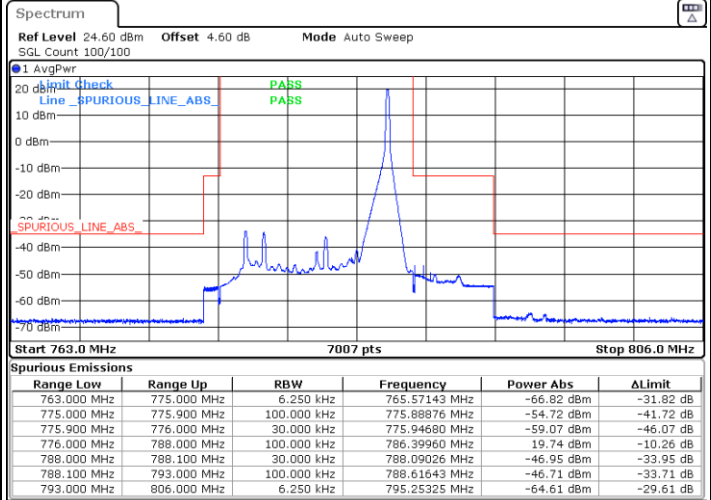
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



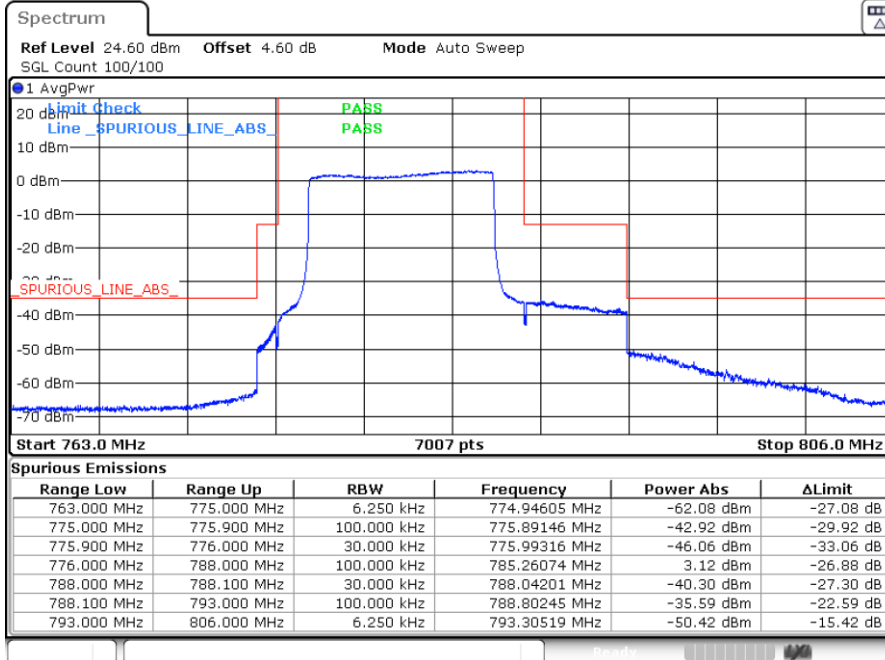
Date: 27.SEP.2024 16:35:57

middle Band Edge / 1 RB



Date: 27.SEP.2024 14:03:05

Middle Band Edge / Full RB

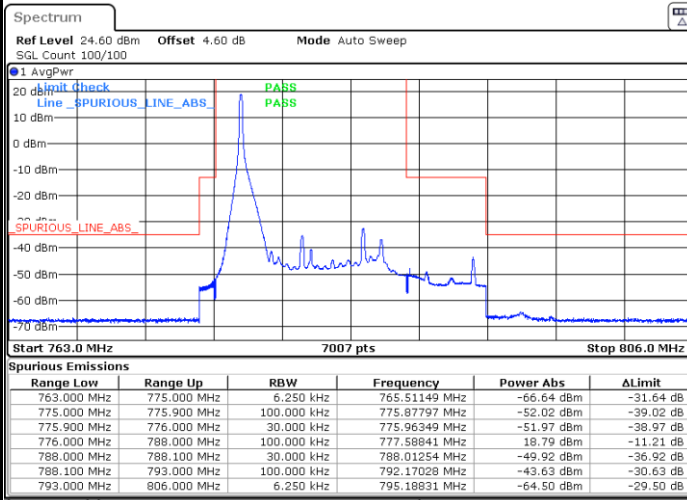


Date: 27.SEP.2024 16:40:13



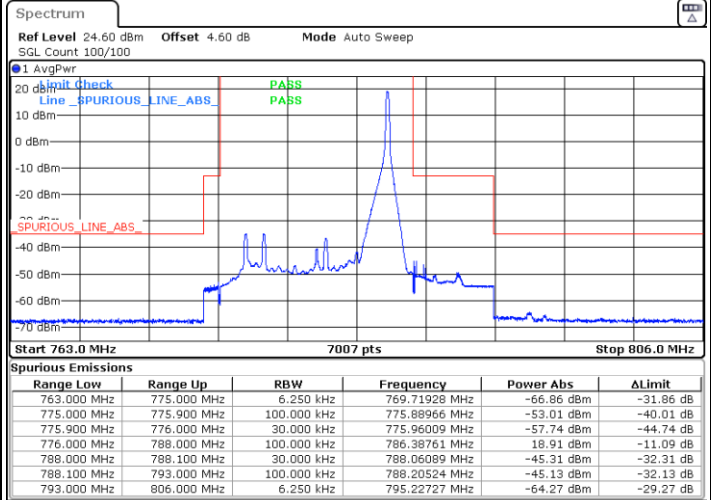
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



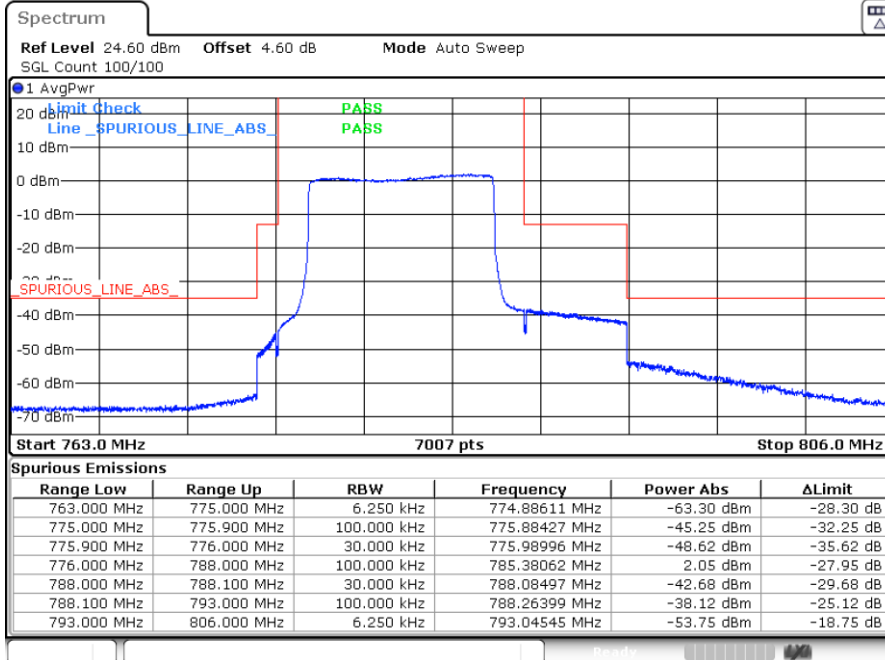
Date: 27.SEP.2024 16:37:22

middle Band Edge / 1 RB



Date: 27.SEP.2024 14:04:30

middle Band Edge / Full RB

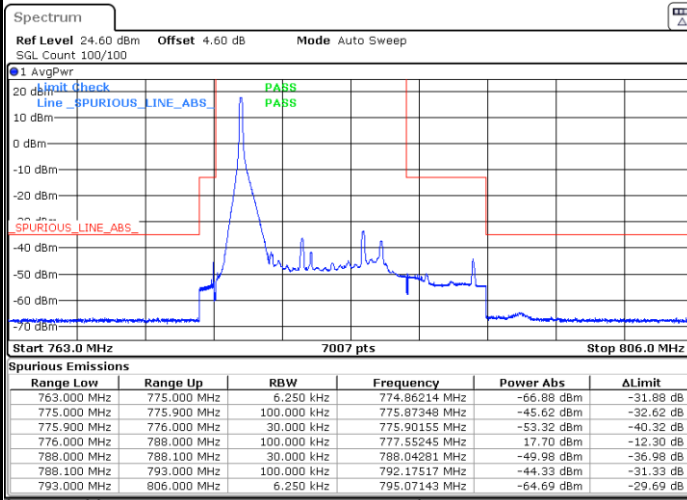


Date: 27.SEP.2024 16:41:38



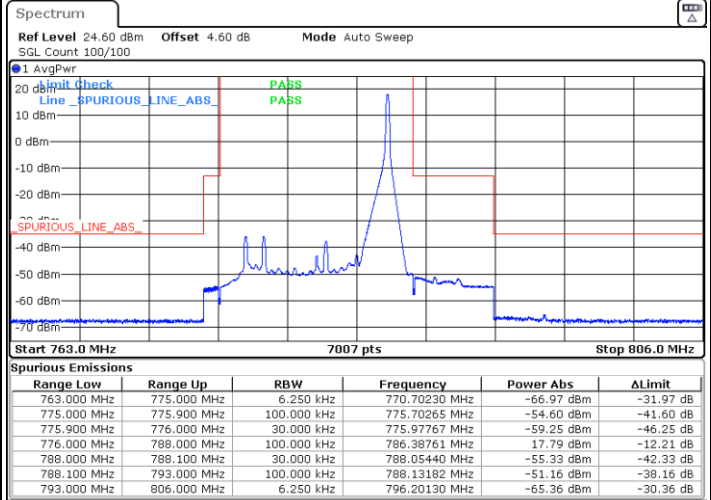
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



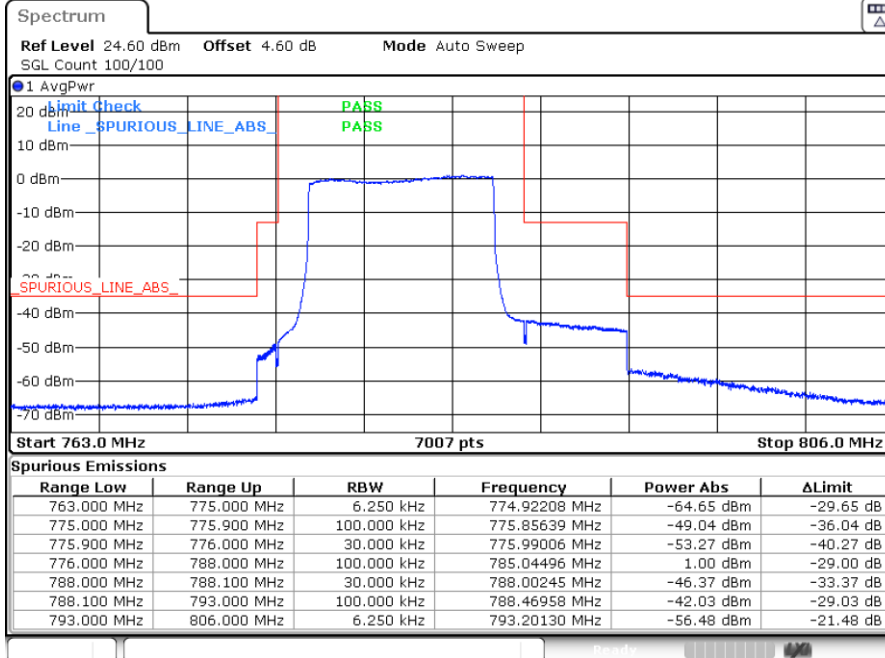
Date: 27.SEP.2024 16:38:47

middle Band Edge / 1 RB



Date: 27.SEP.2024 14:05:56

middle Band Edge / Full RB



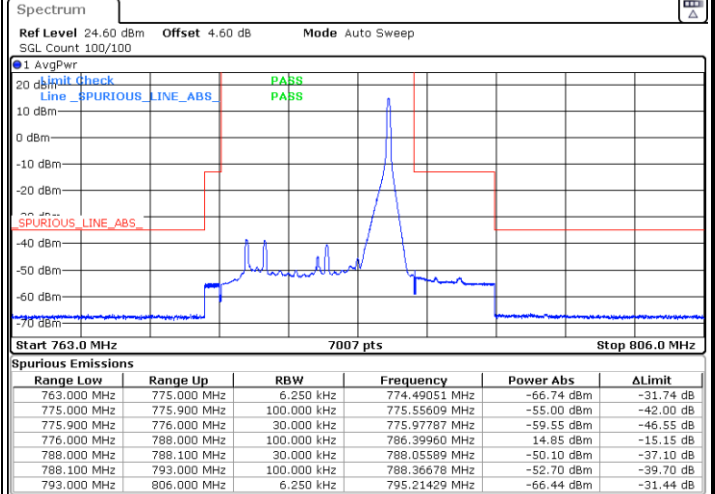
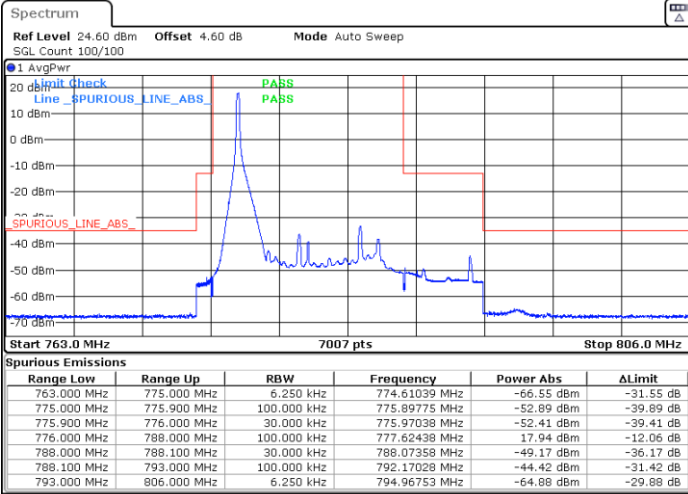
Date: 27.SEP.2024 16:43:04



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

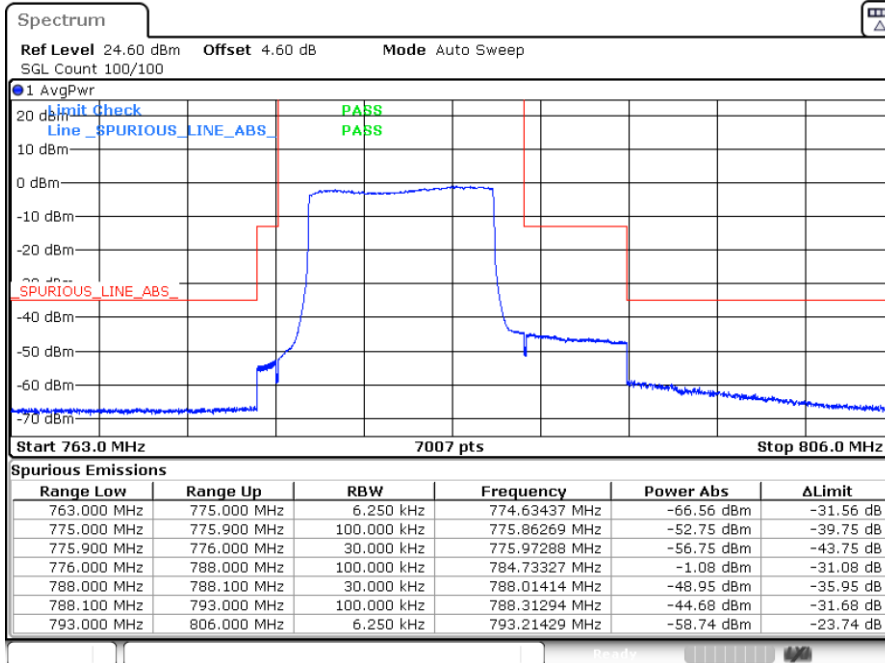
middle Band Edge / 1 RB



Date: 27.SEP.2024 14:59:39

Date: 27.SEP.2024 15:02:31

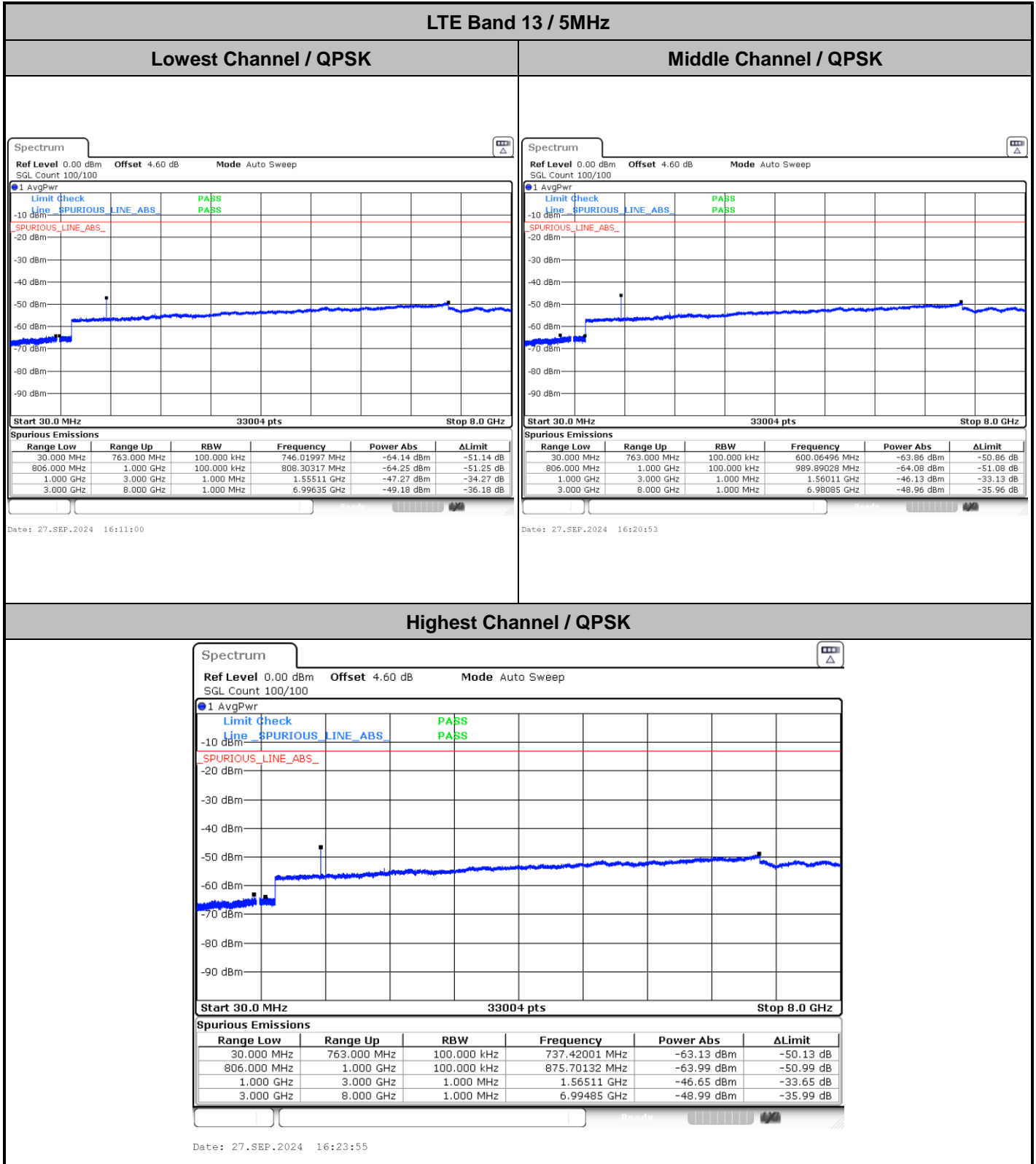
middle Band Edge / Full RB



Date: 27.SEP.2024 15:01:05



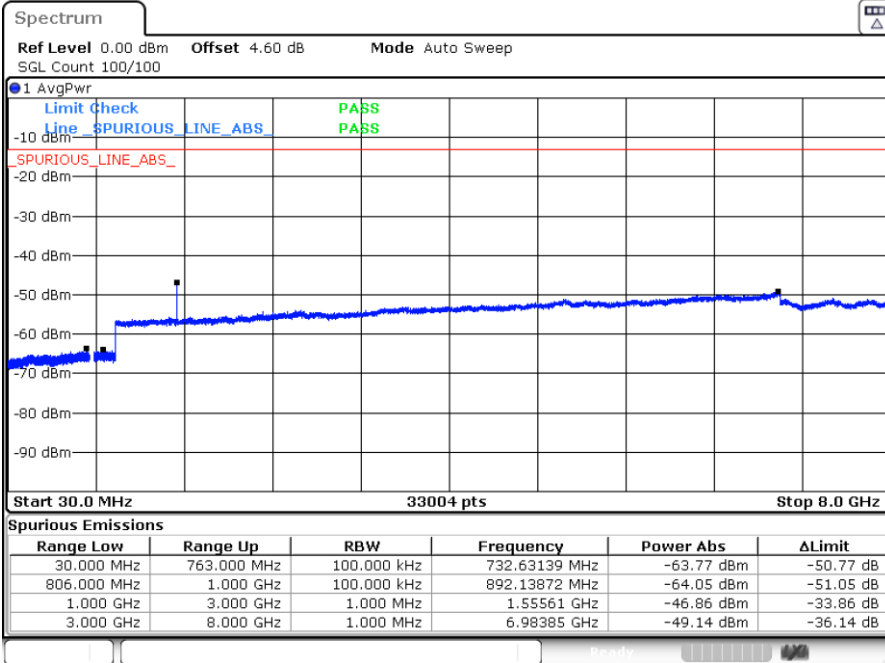
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 27.SEP.2024 16:34:43



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	0.0013	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0061	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0042	
-20	Normal Voltage	0.0066	
-30	Normal Voltage	0.0079	
20	Maximum Voltage	0.0050	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0006	

Note:

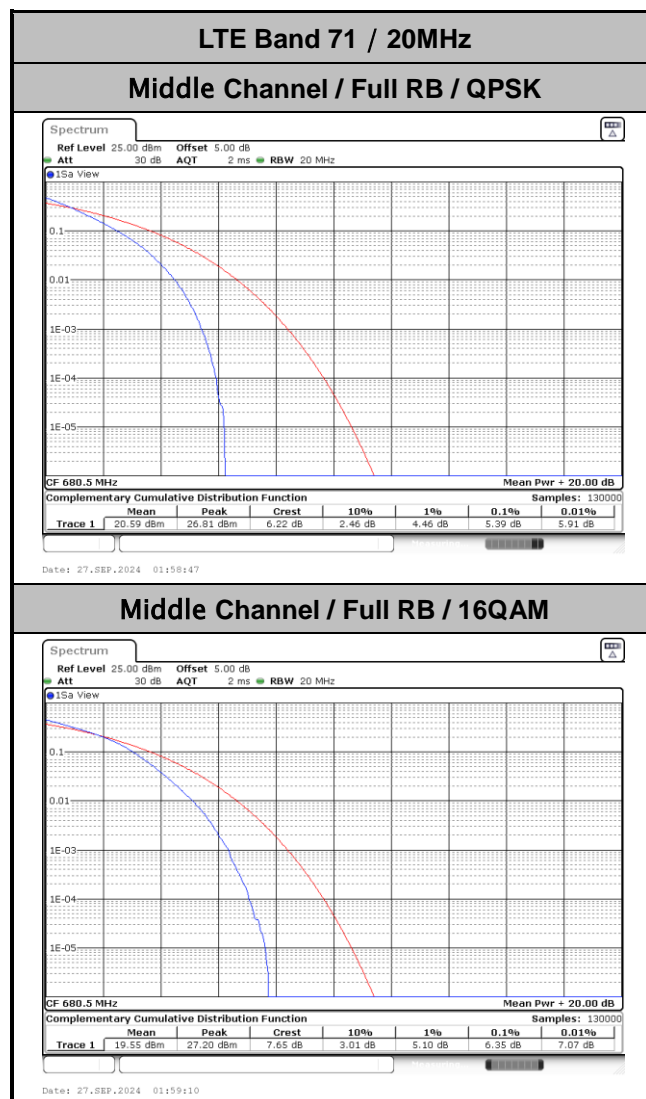
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

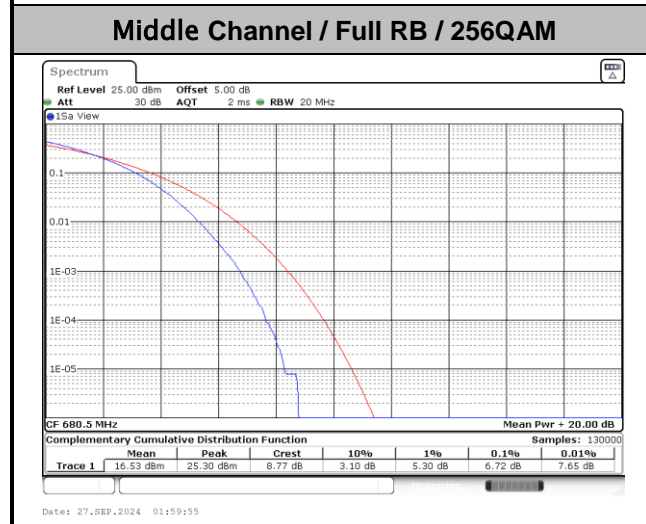
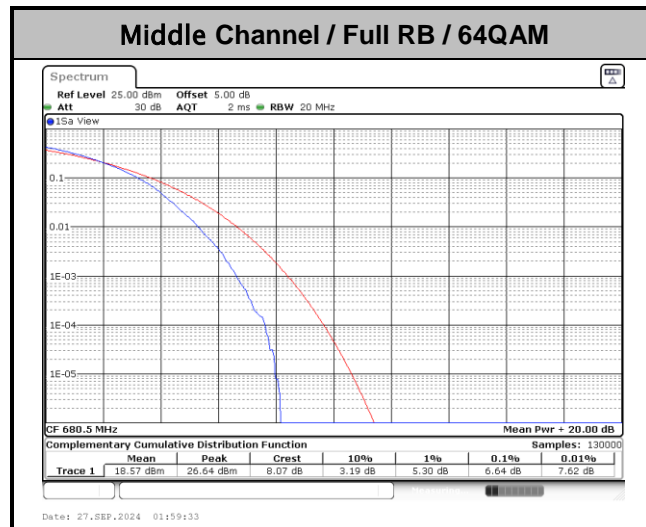


LTE Band 71

Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.39	6.35	6.64	6.72	PASS

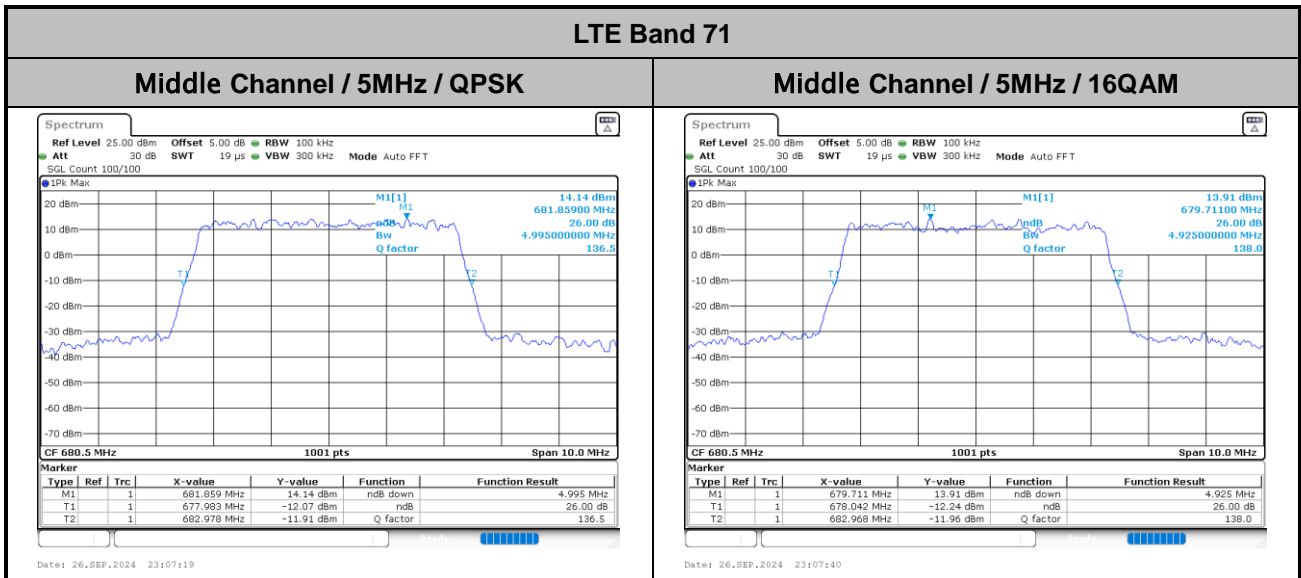






26dB Bandwidth

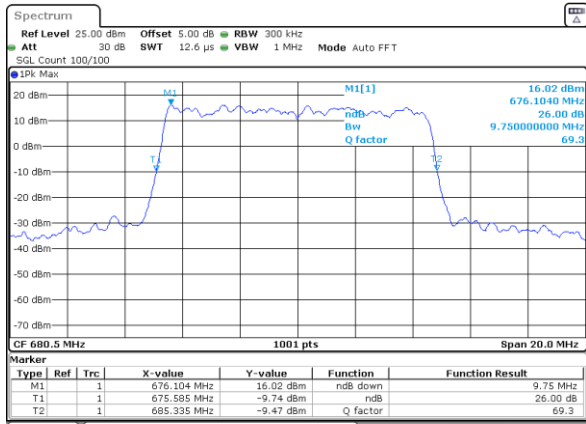
Mode	LTE Band 71 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.995	4.925
Mode	LTE Band 71 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.75	9.79
Mode	LTE Band 71 : 26dB BW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.176	14.386
Mode	LTE Band 71 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.101	18.781





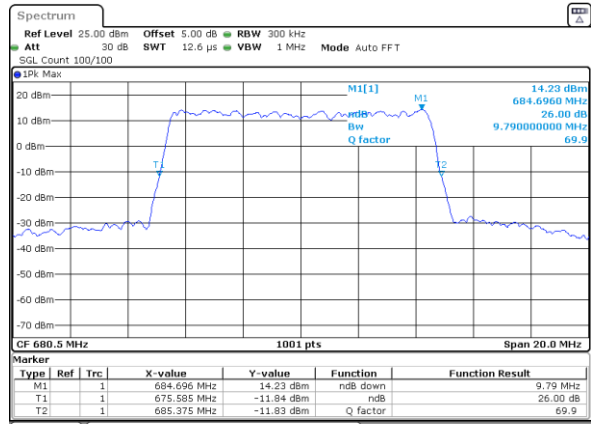
LTE Band 71

Middle Channel / 10MHz / QPSK



Date: 27_SEP.2024 00:50:34

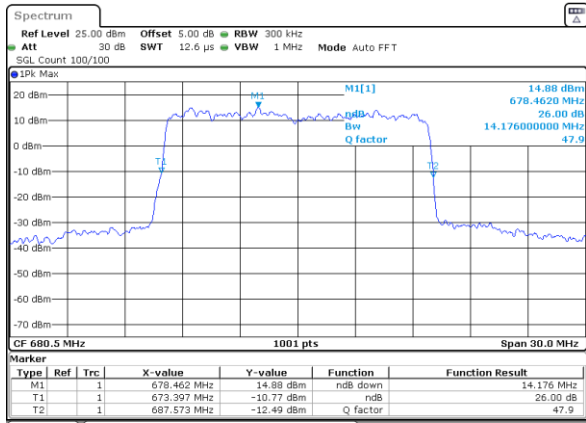
Middle Channel / 10MHz / 16QAM



Date: 27_SEP.2024 00:50:55

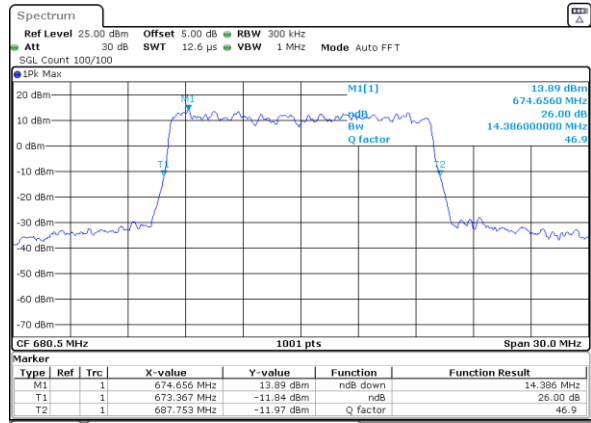
LTE Band 71

Middle Channel / 15MHz / QPSK



Date: 27_SEP.2024 01:21:25

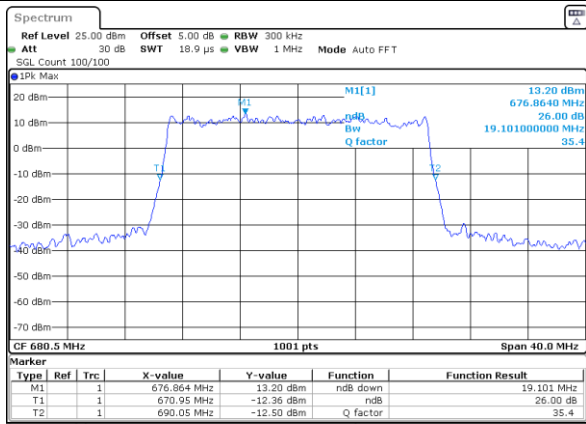
Middle Channel / 15MHz / 16QAM



Date: 27_SEP.2024 01:21:46

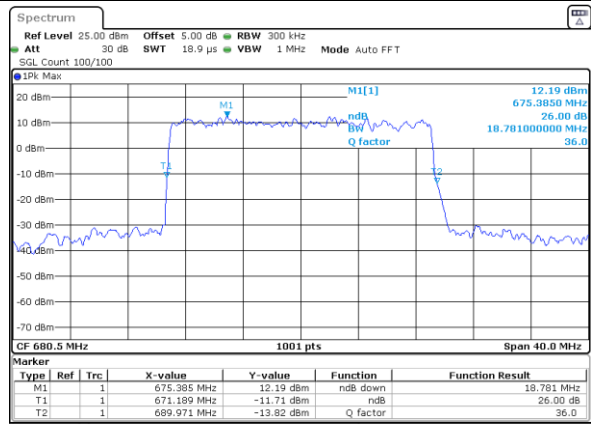
LTE Band 71

Middle Channel / 20MHz / QPSK



Date: 27_SEP.2024 01:49:12

Middle Channel / 20MHz / 16QAM

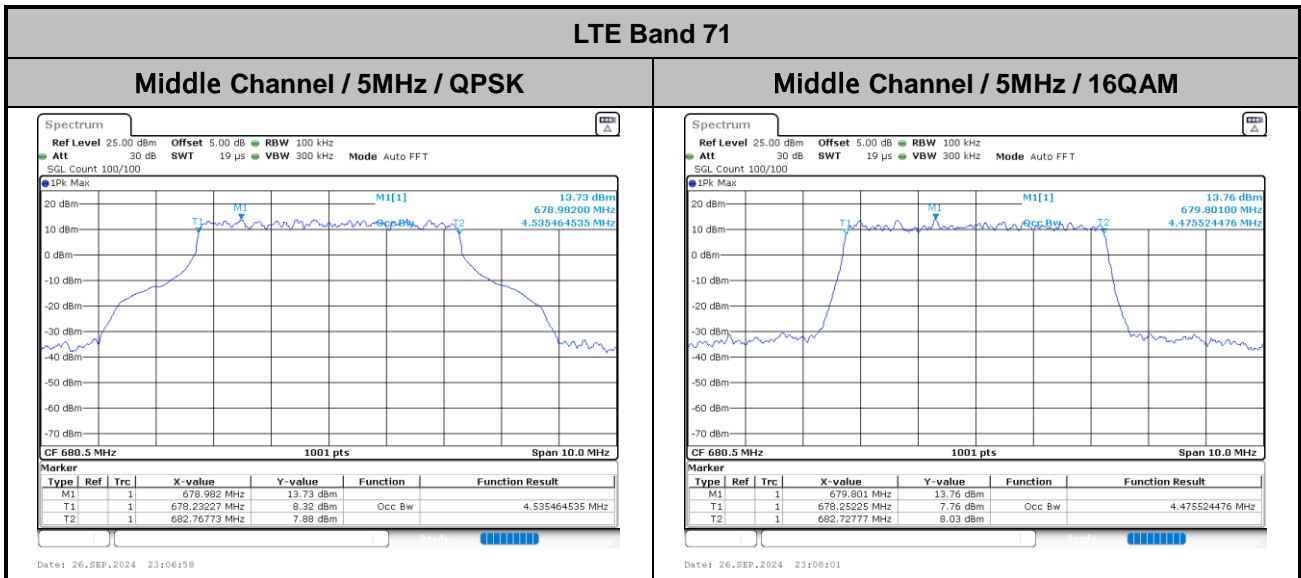


Date: 27_SEP.2024 01:49:33



Occupied Bandwidth

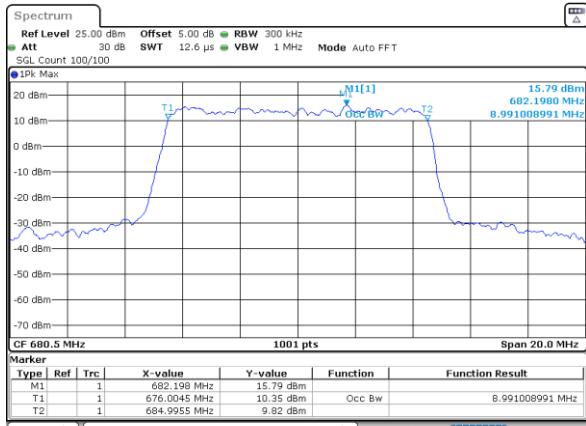
Mode	LTE Band 71 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.535	4.475
Mode	LTE Band 71 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.991	9.030
Mode	LTE Band 71 : 99%OBW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.516	13.426
Mode	LTE Band 71 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.902	17.862





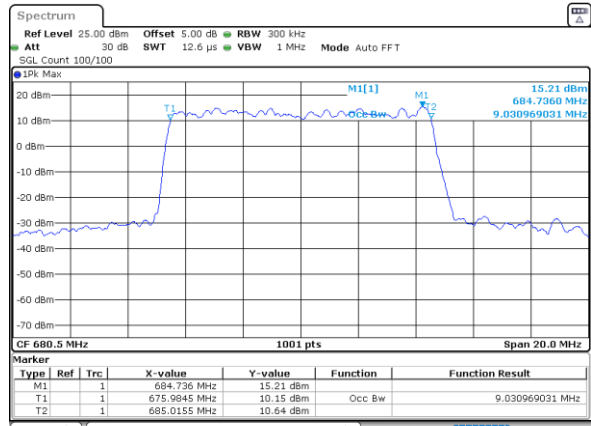
LTE Band 71

Middle Channel / 10MHz / QPSK



Date: 27_SEP.2024 00:50:13

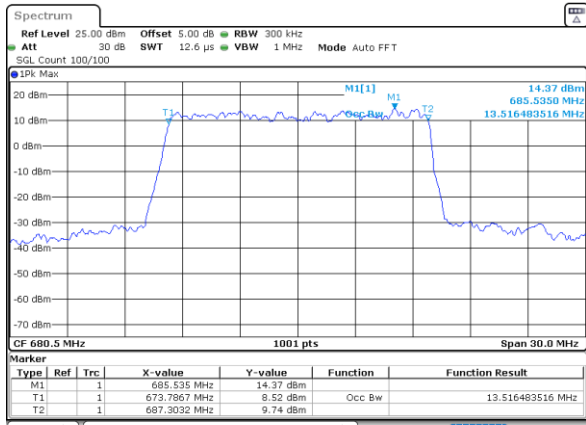
Middle Channel / 10MHz / 16QAM



Date: 27_SEP.2024 00:51:16

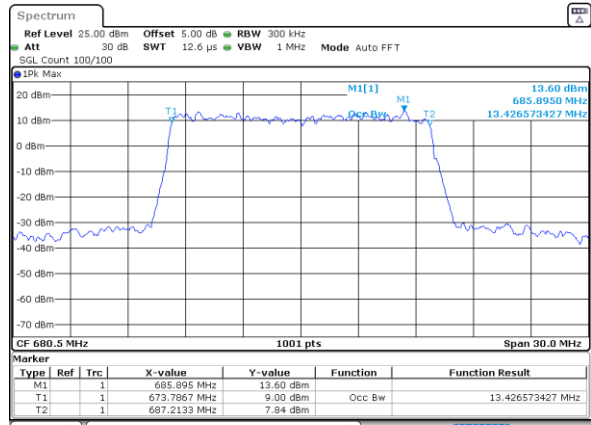
LTE Band 71

Middle Channel / 15MHz / QPSK



Date: 27_SEP.2024 01:21:04

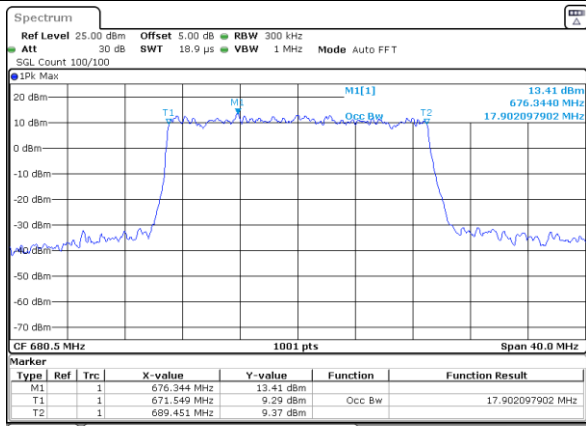
Middle Channel / 15MHz / 16QAM



Date: 27_SEP.2024 01:22:07

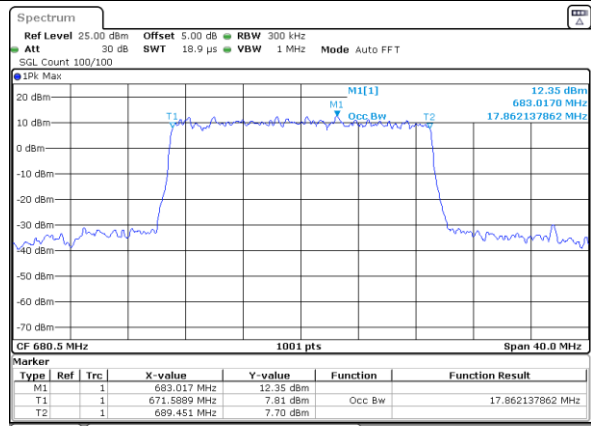
LTE Band 71

Middle Channel / 20MHz / QPSK



Date: 27_SEP.2024 01:48:53

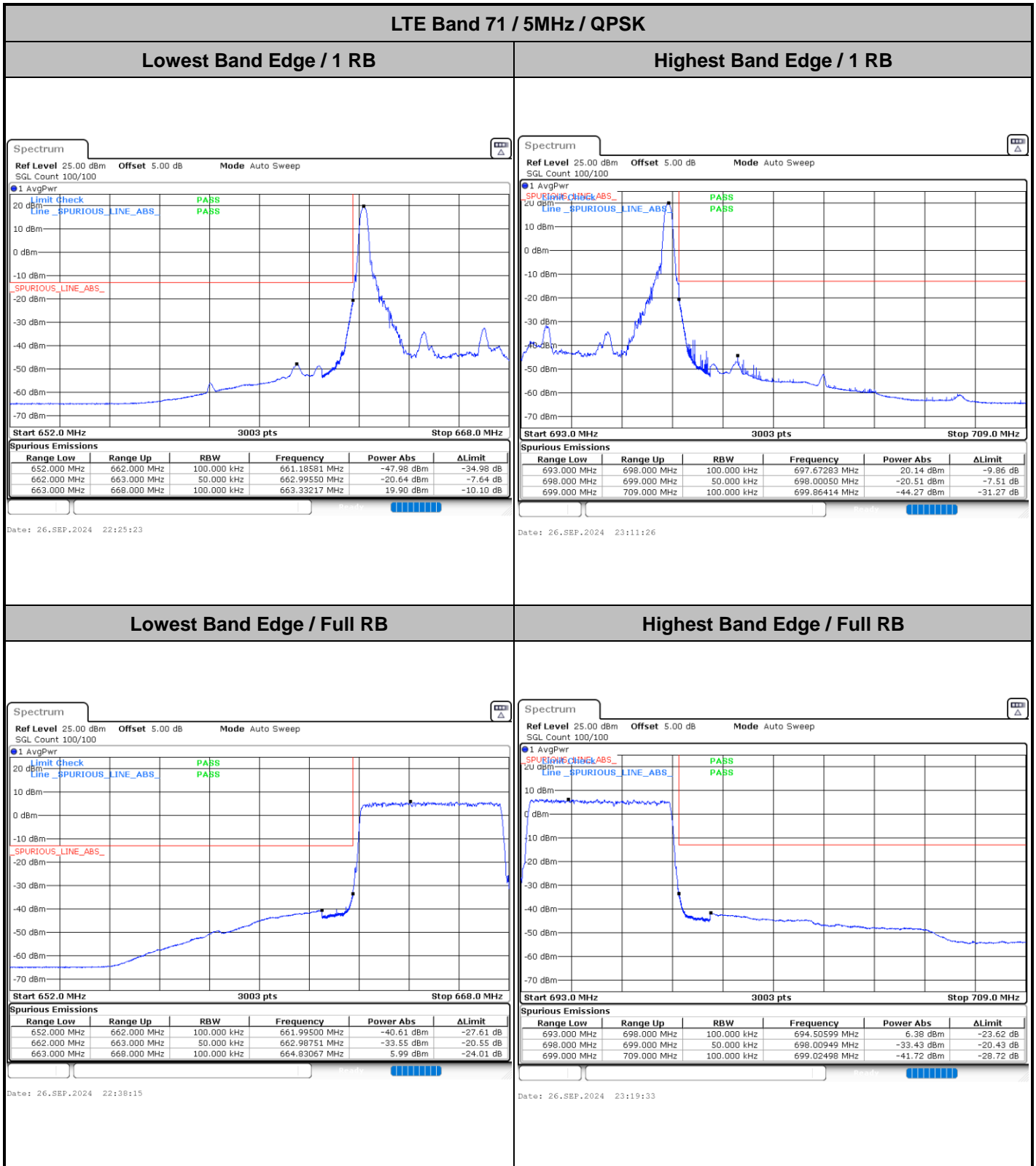
Middle Channel / 20MHz / 16QAM



Date: 27_SEP.2024 01:49:54



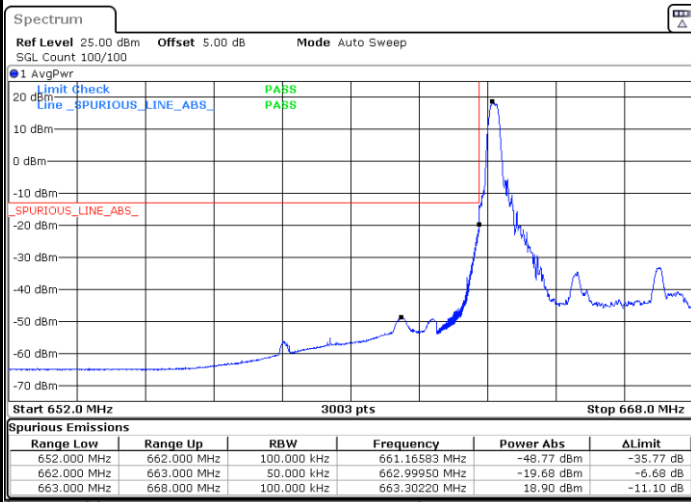
Conducted Band Edge





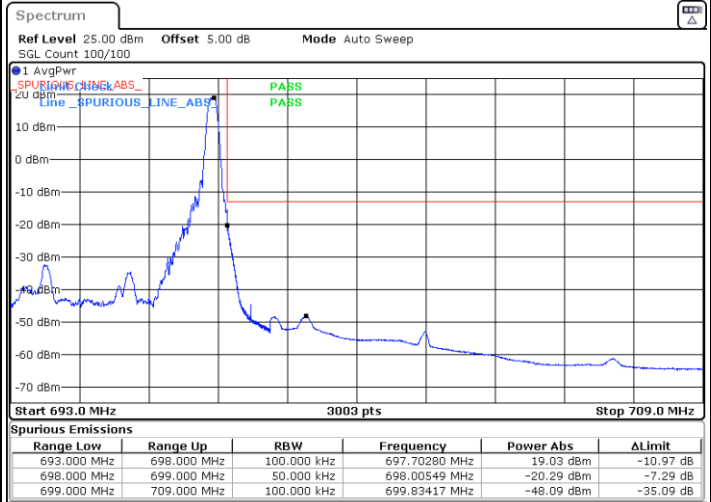
LTE Band 71 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



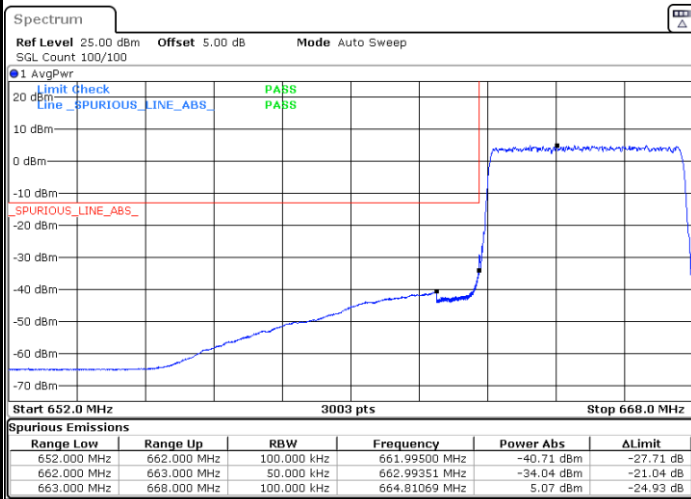
Date: 26.SEP.2024 22:27:23

Highest Band Edge / 1 RB



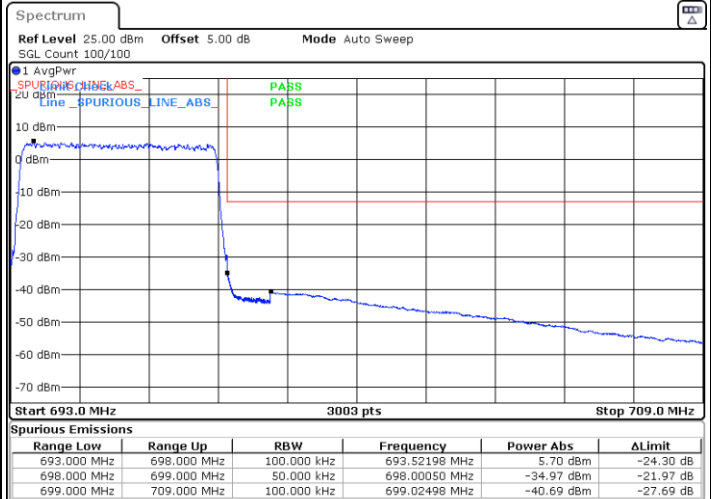
Date: 26.SEP.2024 23:13:30

Lowest Band Edge / Full RB



Date: 26.SEP.2024 22:40:16

Highest Band Edge / Full RB

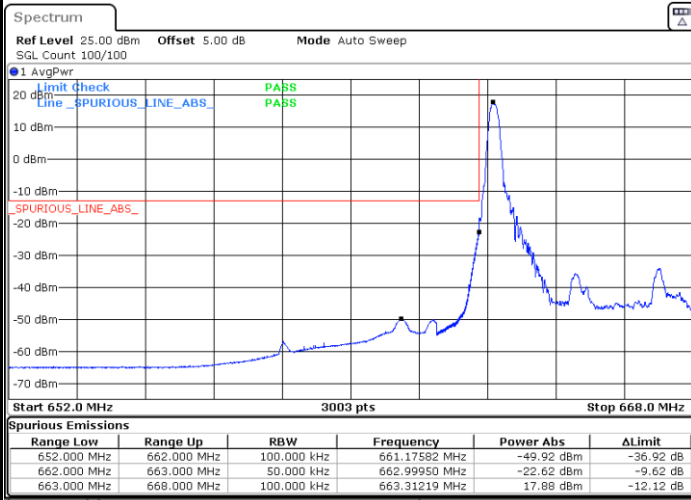


Date: 26.SEP.2024 23:21:34



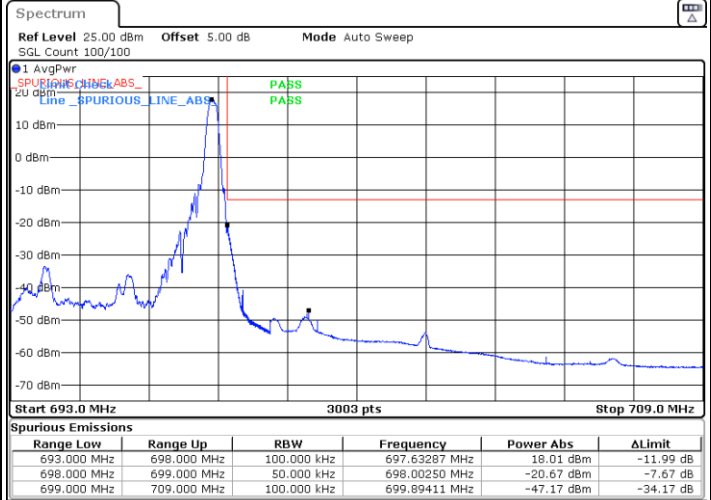
LTE Band 71 / 5MHz / 64QAM

Lowest Band Edge / 1RB



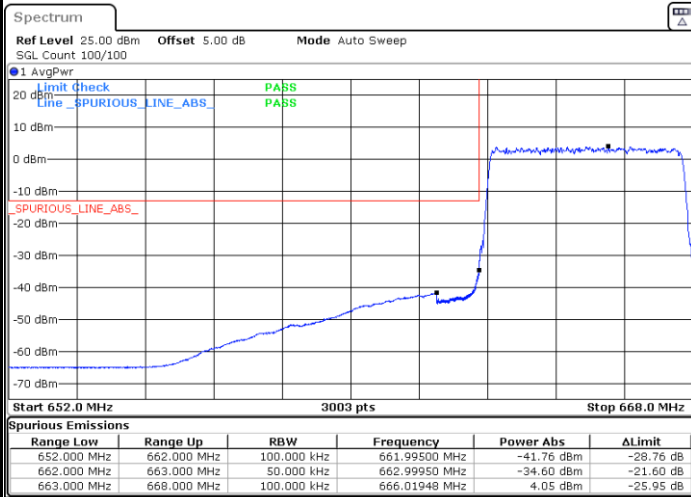
Date: 26.SEP.2024 22:29:24

Highest Band Edge / 1 RB



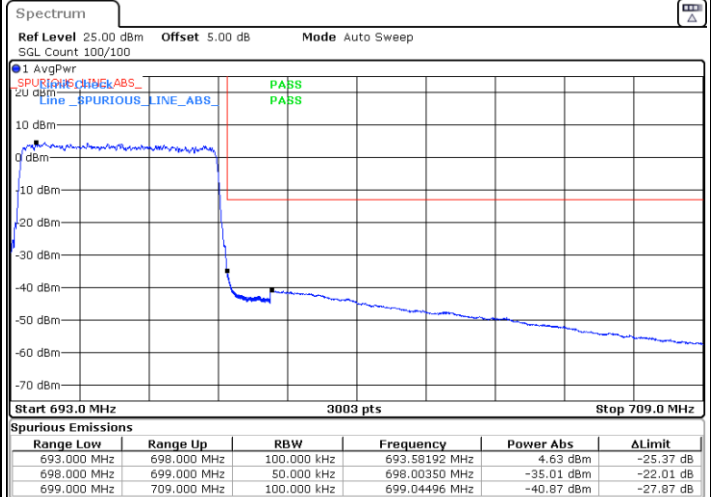
Date: 26.SEP.2024 23:15:31

Lowest Band Edge / Full RB



Date: 26.SEP.2024 22:42:17

Highest Band Edge / Full RB

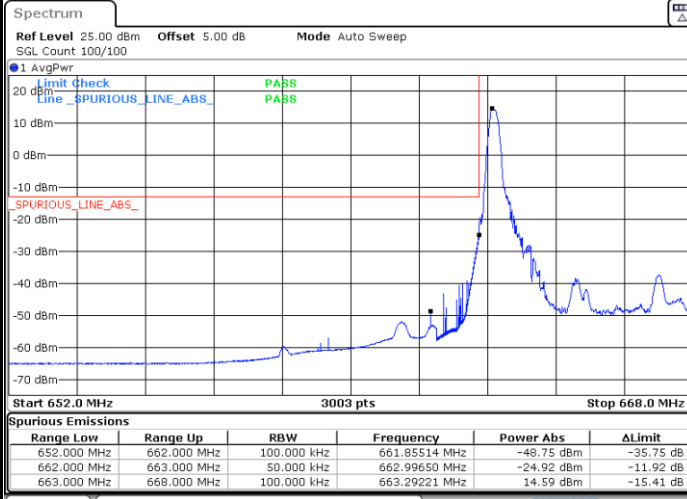


Date: 26.SEP.2024 23:23:35



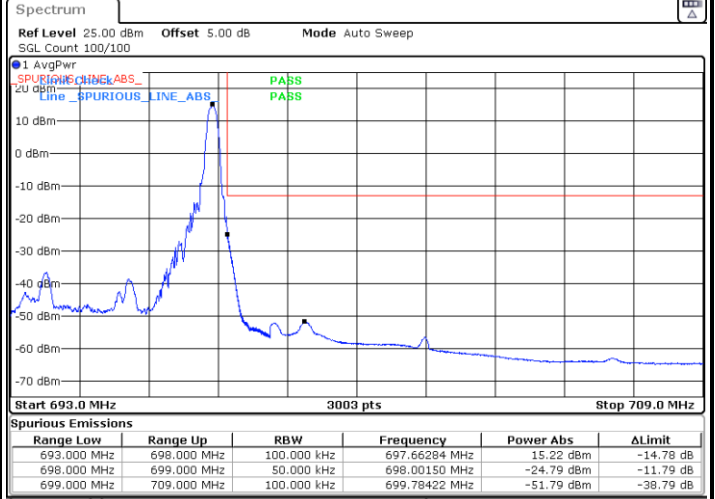
LTE Band 71 / 5MHz / 256QAM

Lowest Band Edge / 1RB



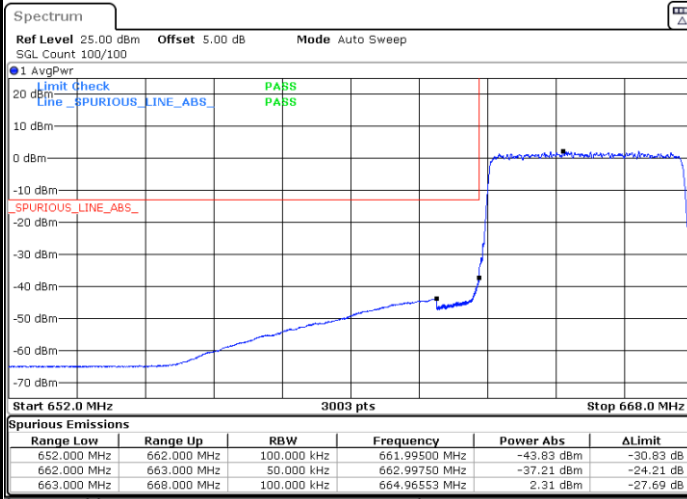
Date: 26.SEP.2024 22:31:26

Highest Band Edge / 1 RB



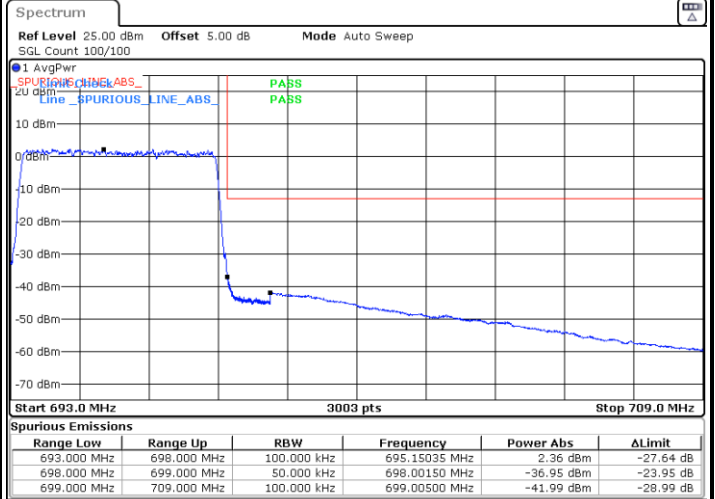
Date: 26.SEP.2024 23:17:32

Lowest Band Edge / Full RB



Date: 26.SEP.2024 22:44:18

Highest Band Edge / Full RB

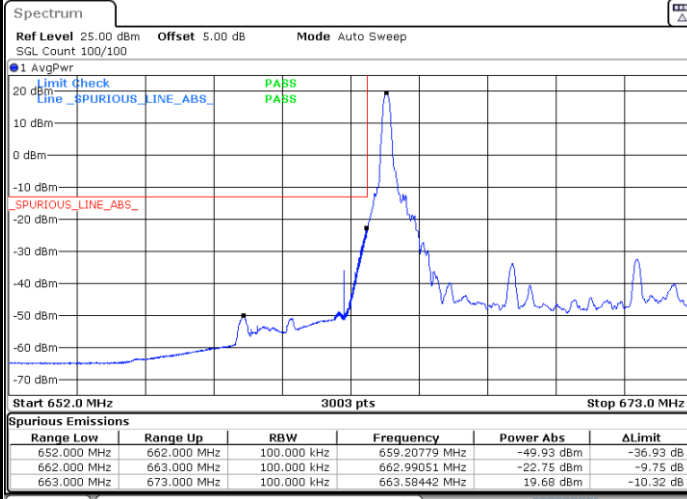


Date: 26.SEP.2024 23:25:36



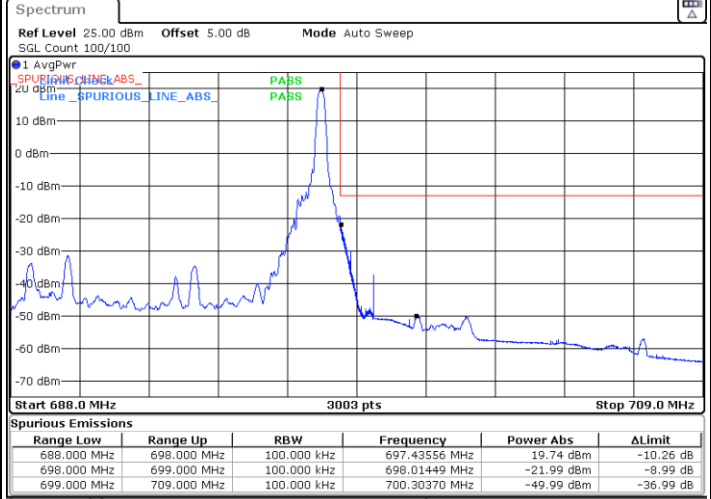
LTE Band 71 / 10MHz / QPSK

Lowest Band Edge / 1 RB



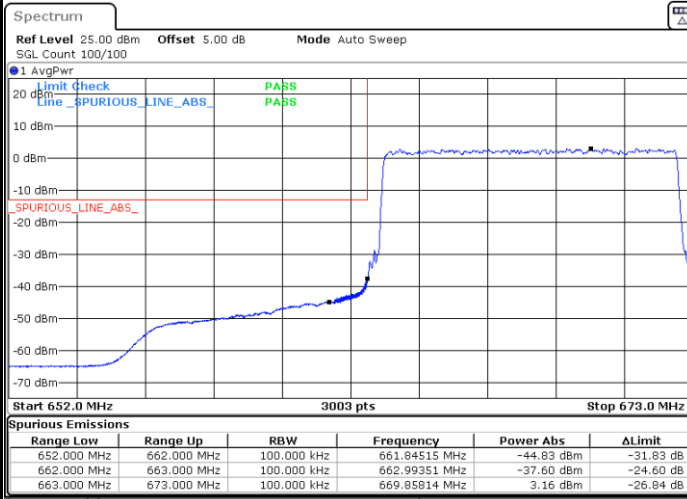
Date: 27.SEP.2024 00:43:02

Highest Band Edge / 1 RB



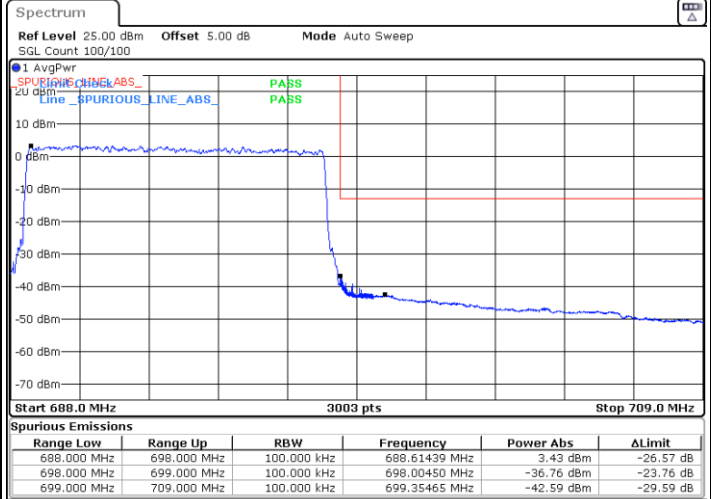
Date: 27.SEP.2024 00:53:25

Lowest Band Edge / Full RB



Date: 27.SEP.2024 00:32:08

Highest Band Edge / Full RB

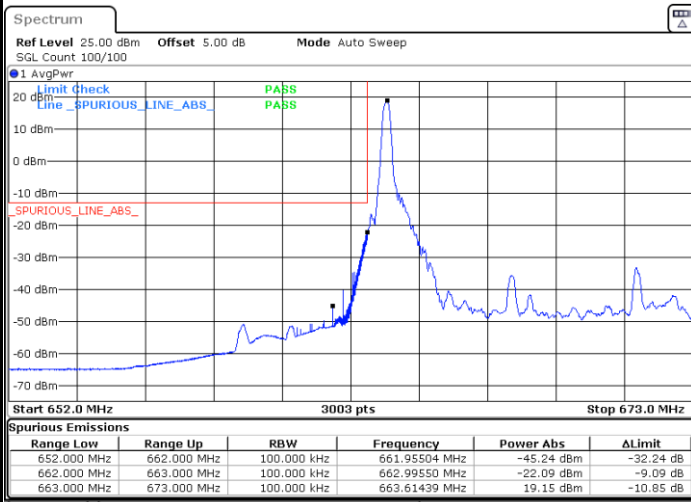


Date: 27.SEP.2024 00:56:34



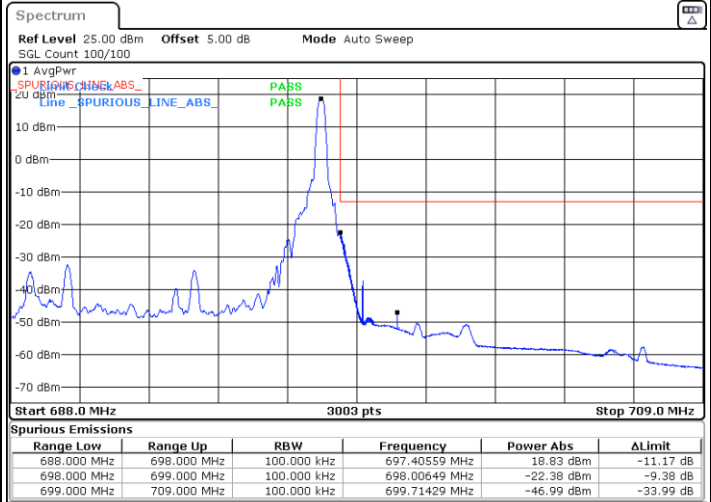
LTE Band 71 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



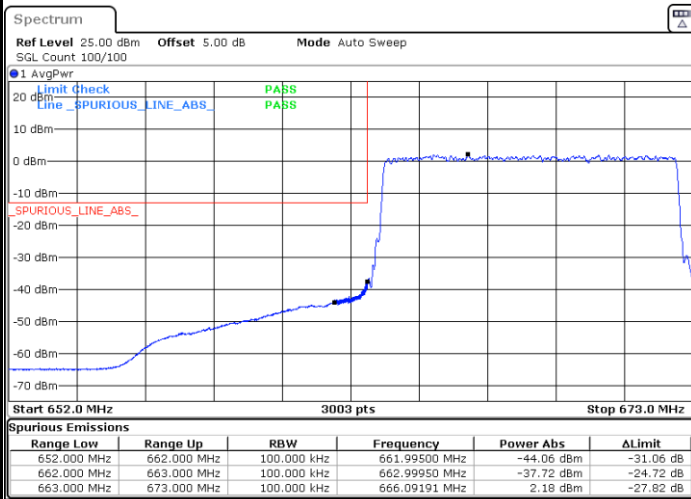
Date: 27_SEP.2024 00:43:51

Highest Band Edge / 1 RB



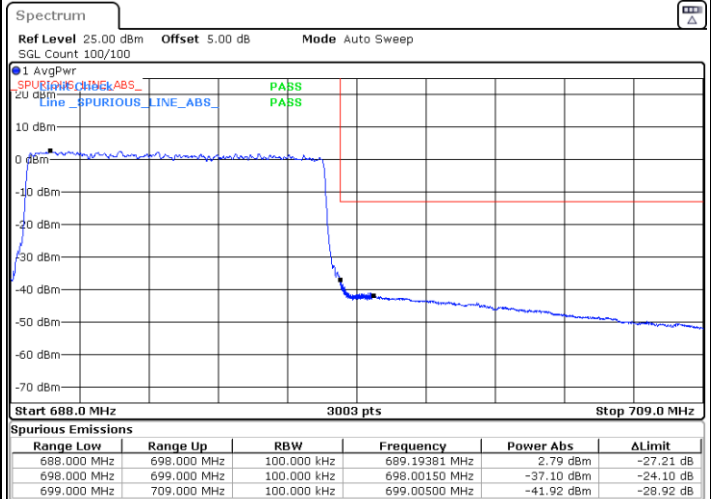
Date: 27_SEP.2024 00:54:14

Lowest Band Edge / Full RB



Date: 27_SEP.2024 00:34:09

Highest Band Edge / Full RB

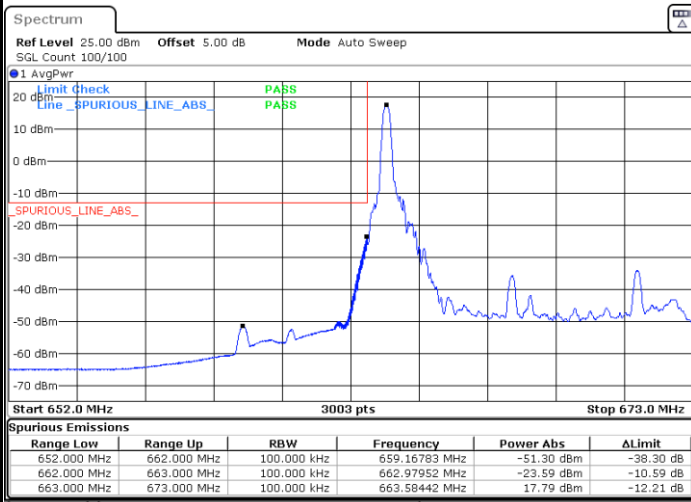


Date: 27_SEP.2024 00:57:20



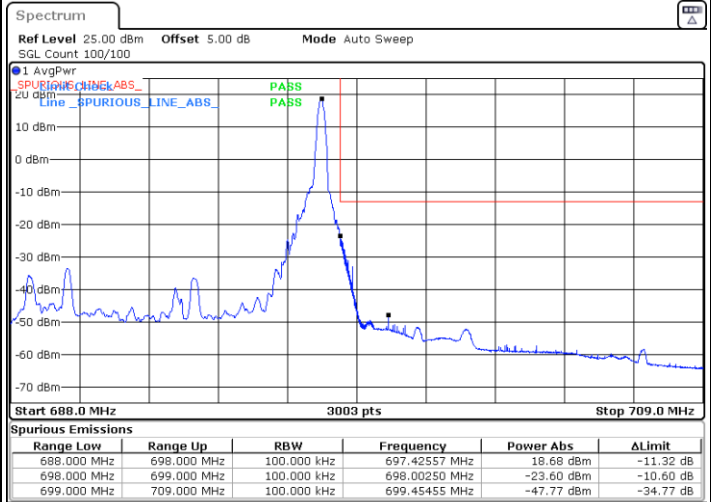
LTE Band 71 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



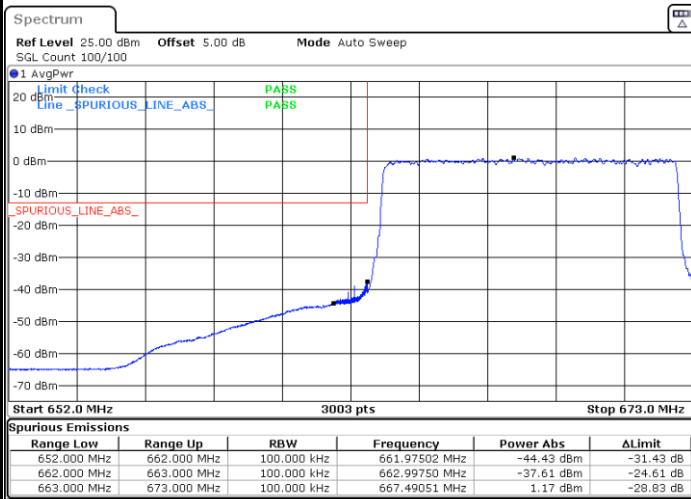
Date: 27.SEP.2024 00:44:37

Highest Band Edge / 1 RB



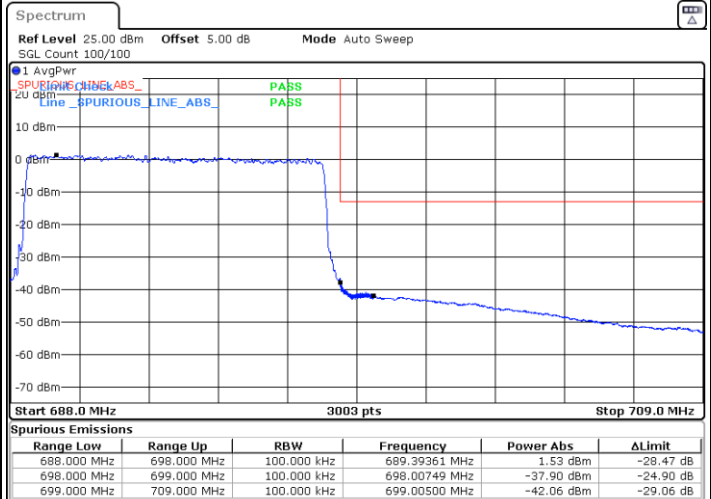
Date: 27.SEP.2024 00:55:01

Lowest Band Edge / Full RB



Date: 27.SEP.2024 00:36:09

Highest Band Edge / Full RB

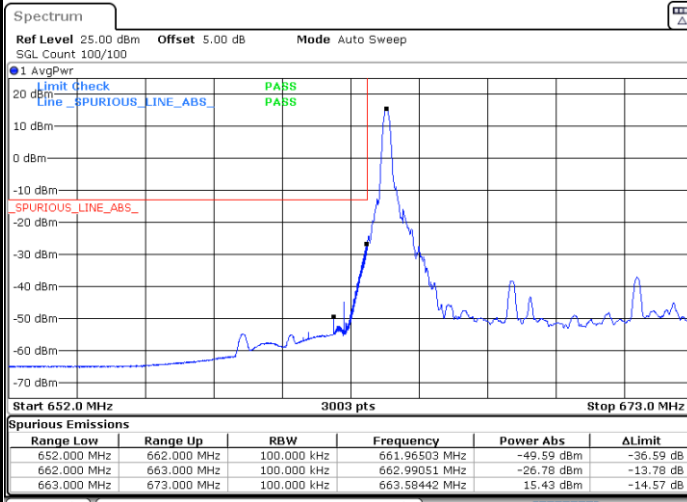


Date: 27.SEP.2024 00:58:07



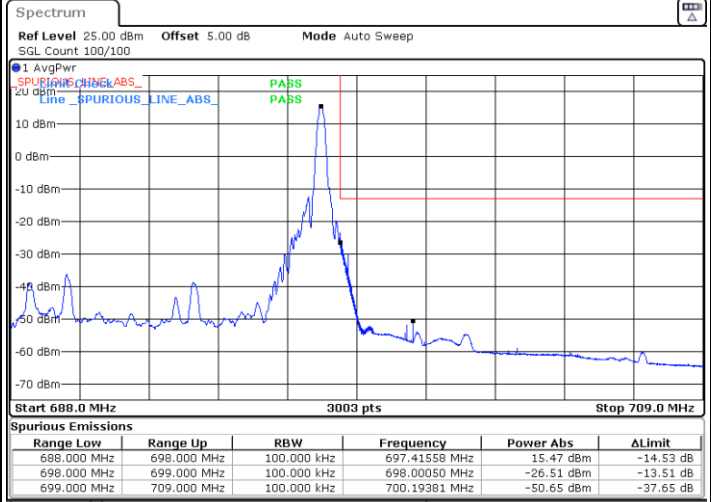
LTE Band 71 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



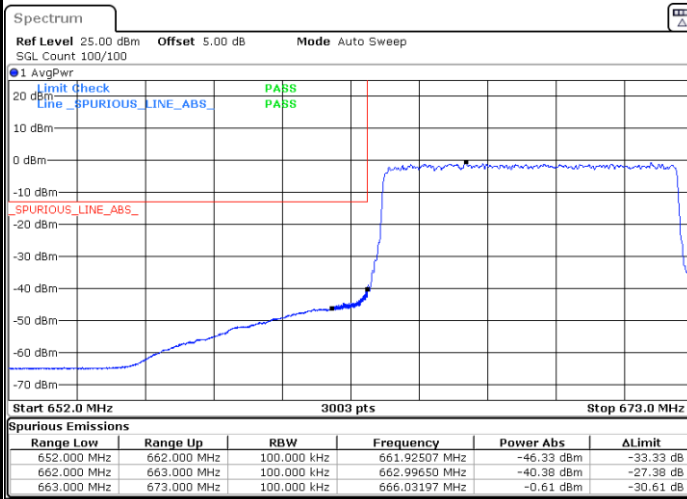
Date: 27_SEP.2024 00:45:22

Highest Band Edge / 1 RB



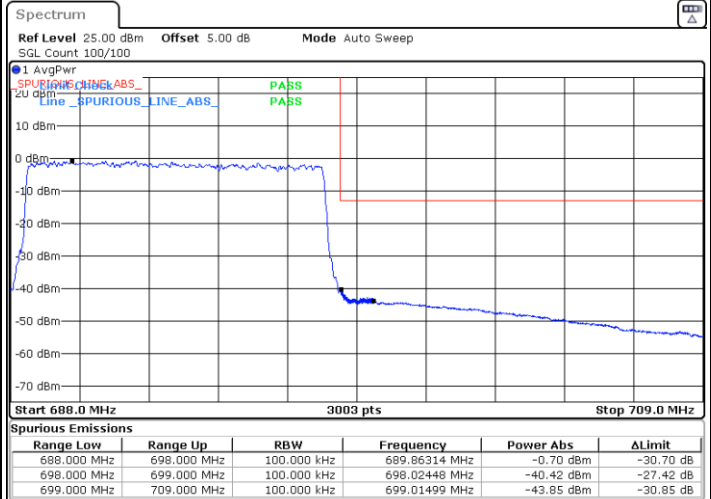
Date: 27_SEP.2024 00:55:47

Lowest Band Edge / Full RB



Date: 27_SEP.2024 00:40:36

Highest Band Edge / Full RB



Date: 27_SEP.2024 00:58:53