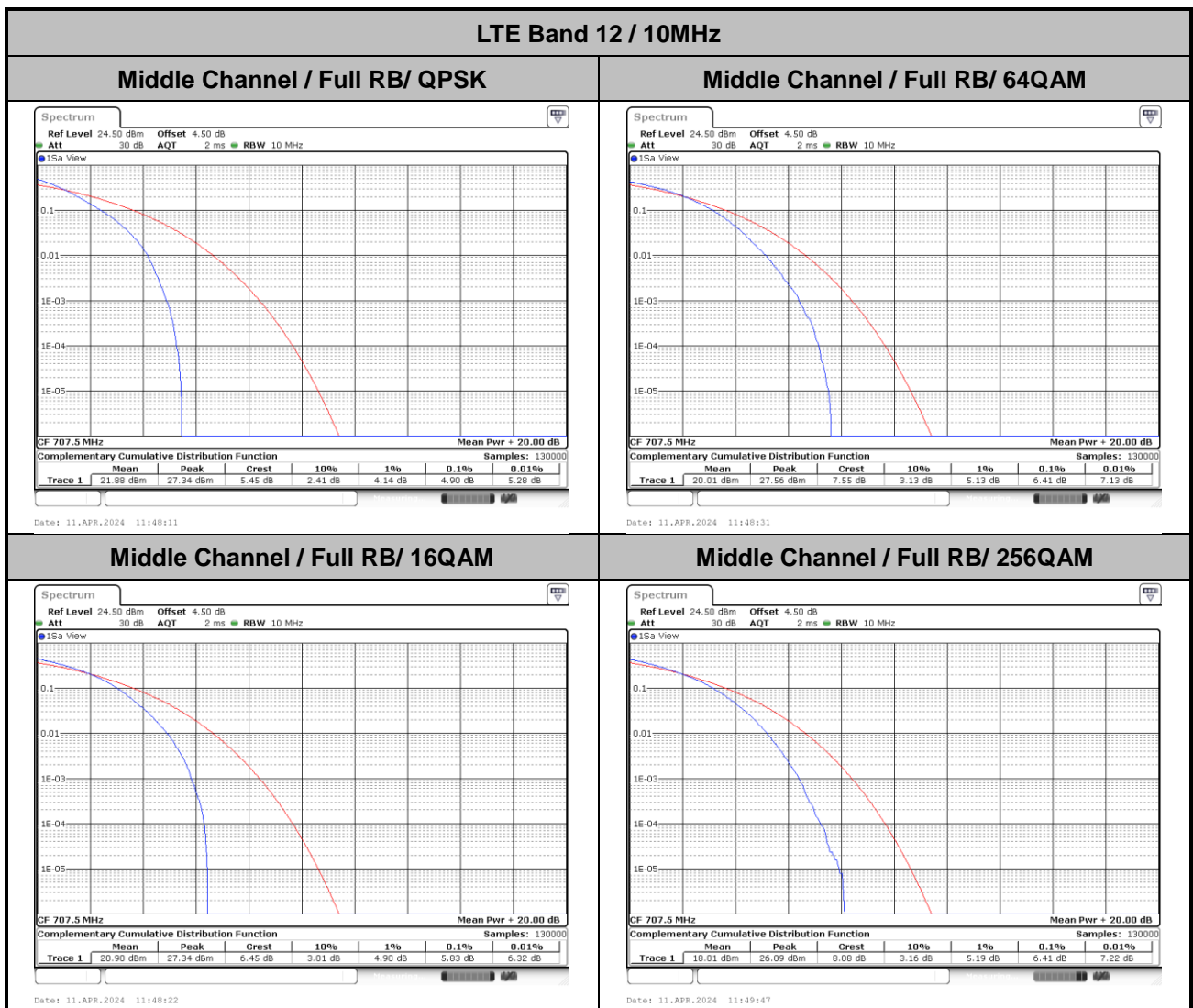




LTE Band 12 (other PA)

Peak-to-Average Ratio

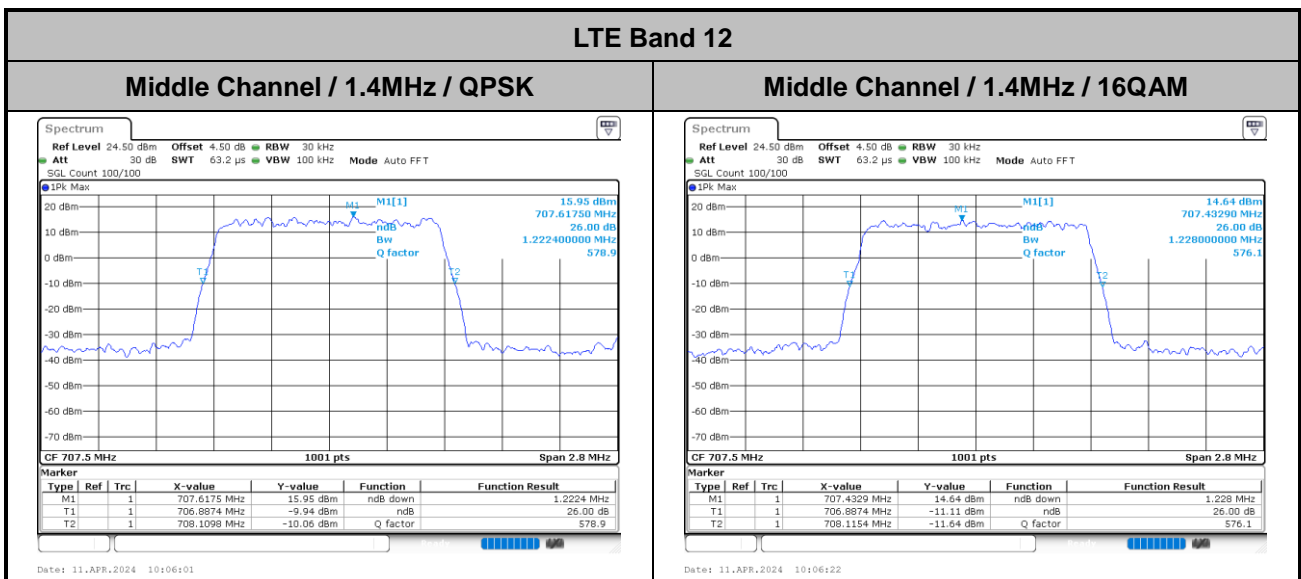
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.83	6.41	6.41	PASS





26dB Bandwidth

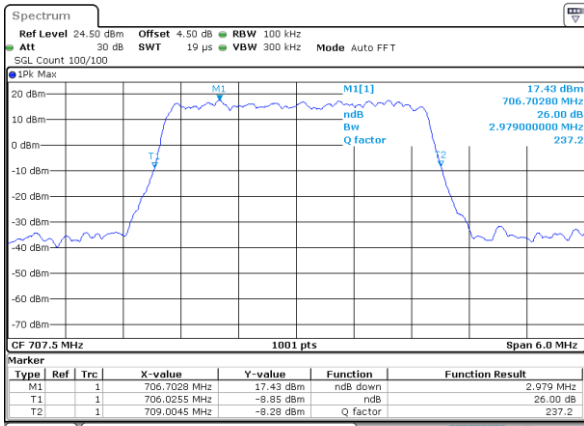
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.22	1.23
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.98	2.96
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.89	4.88
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.67	9.81





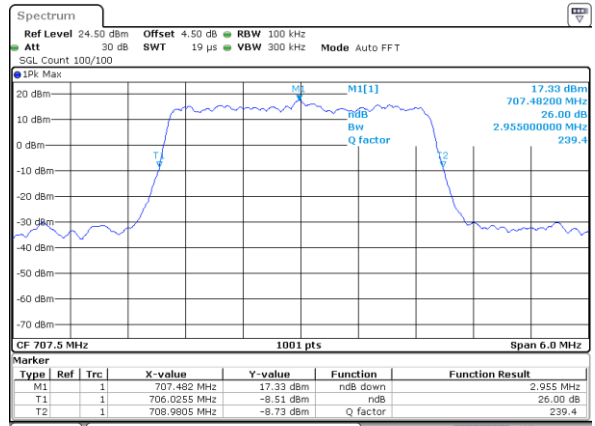
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 11.APR.2024 10:45:13

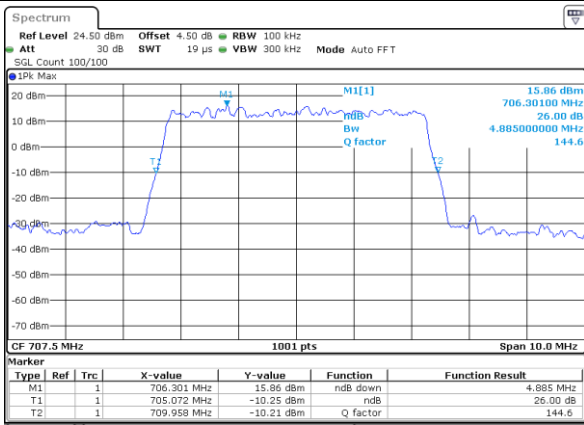
Middle Channel / 3MHz / 16QAM



Date: 11.APR.2024 10:45:32

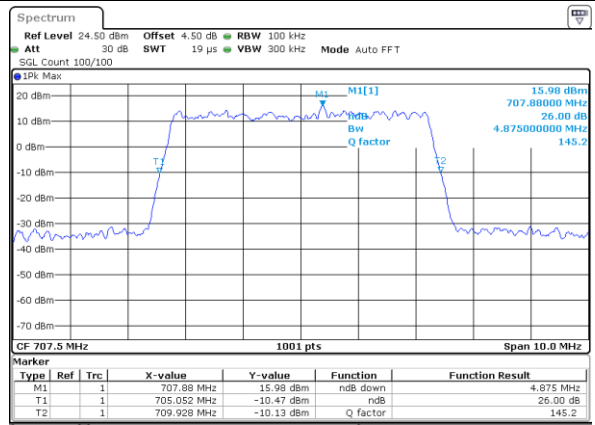
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 11.APR.2024 11:18:56

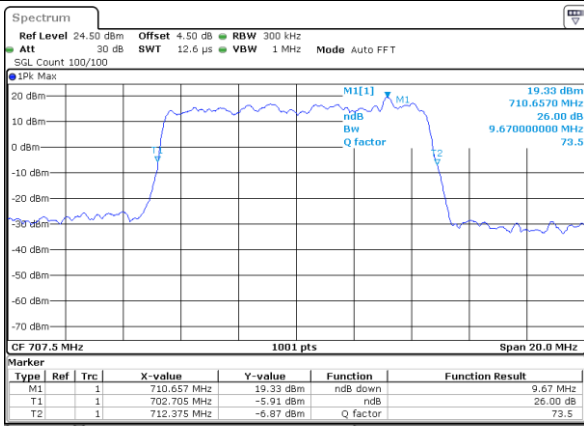
Middle Channel / 5MHz / 16QAM



Date: 11.APR.2024 11:19:29

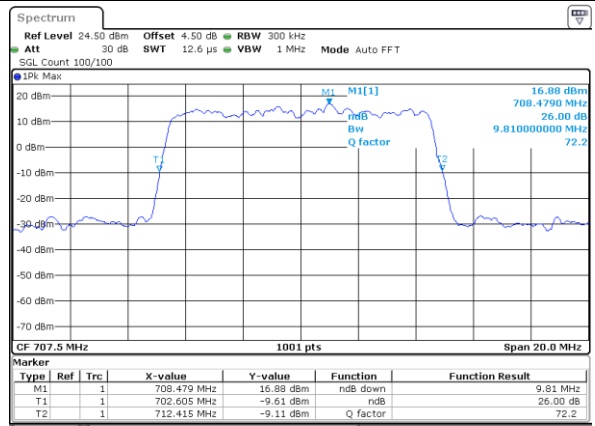
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 11.APR.2024 11:42:52

Middle Channel / 10MHz / 16QAM

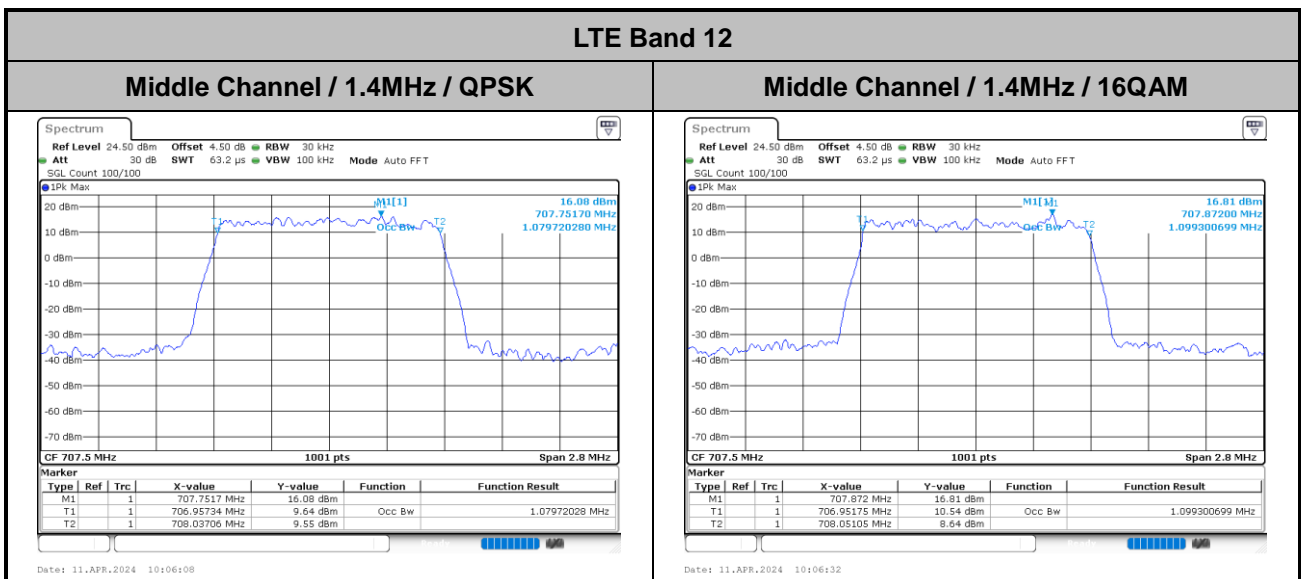


Date: 11.APR.2024 11:44:04



Occupied Bandwidth

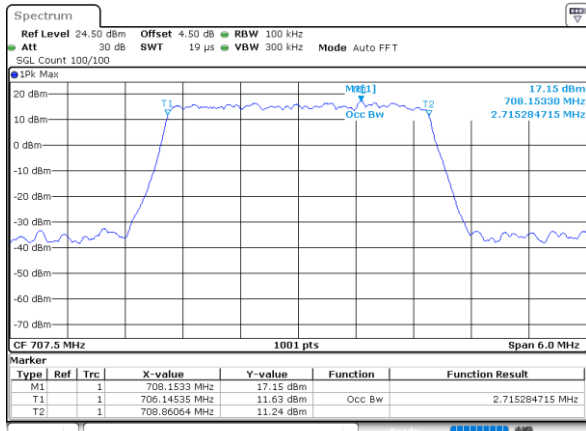
Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.08	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.72	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.48
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	8.99





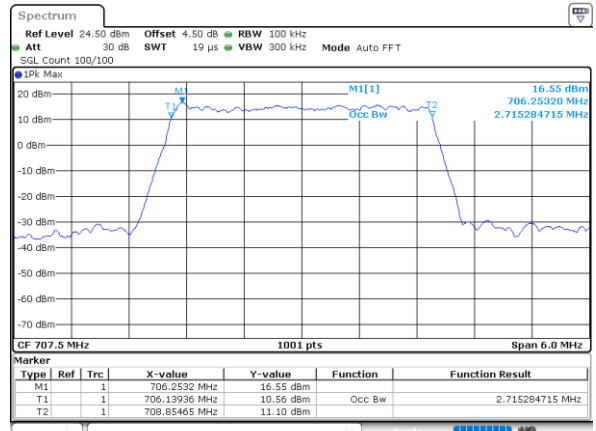
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 11.APR.2024 10:45:23

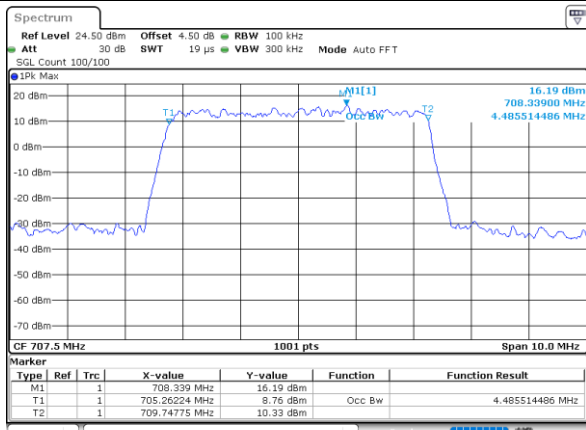
Middle Channel / 3MHz / 16QAM



Date: 11.APR.2024 10:45:39

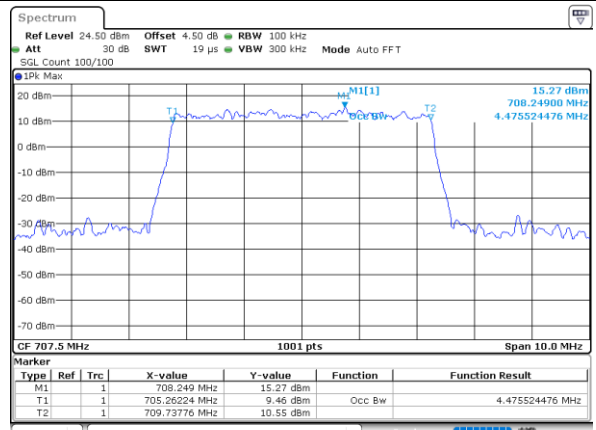
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 11.APR.2024 11:19:06

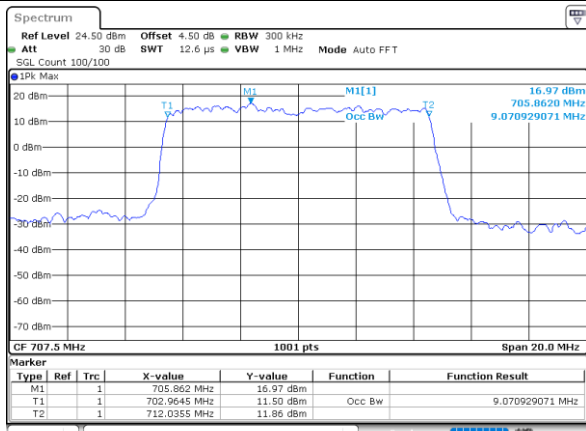
Middle Channel / 5MHz / 16QAM



Date: 11.APR.2024 11:19:54

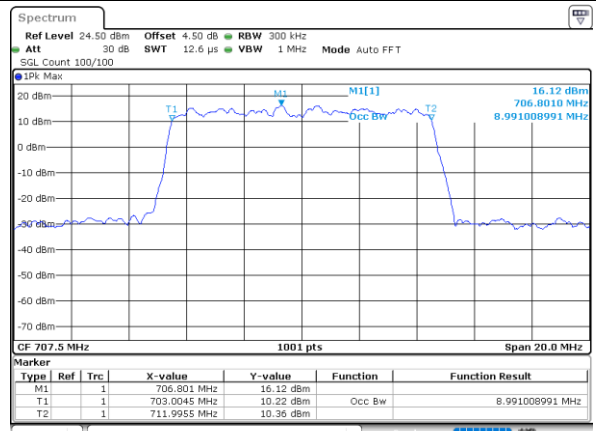
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 11.APR.2024 11:43:01

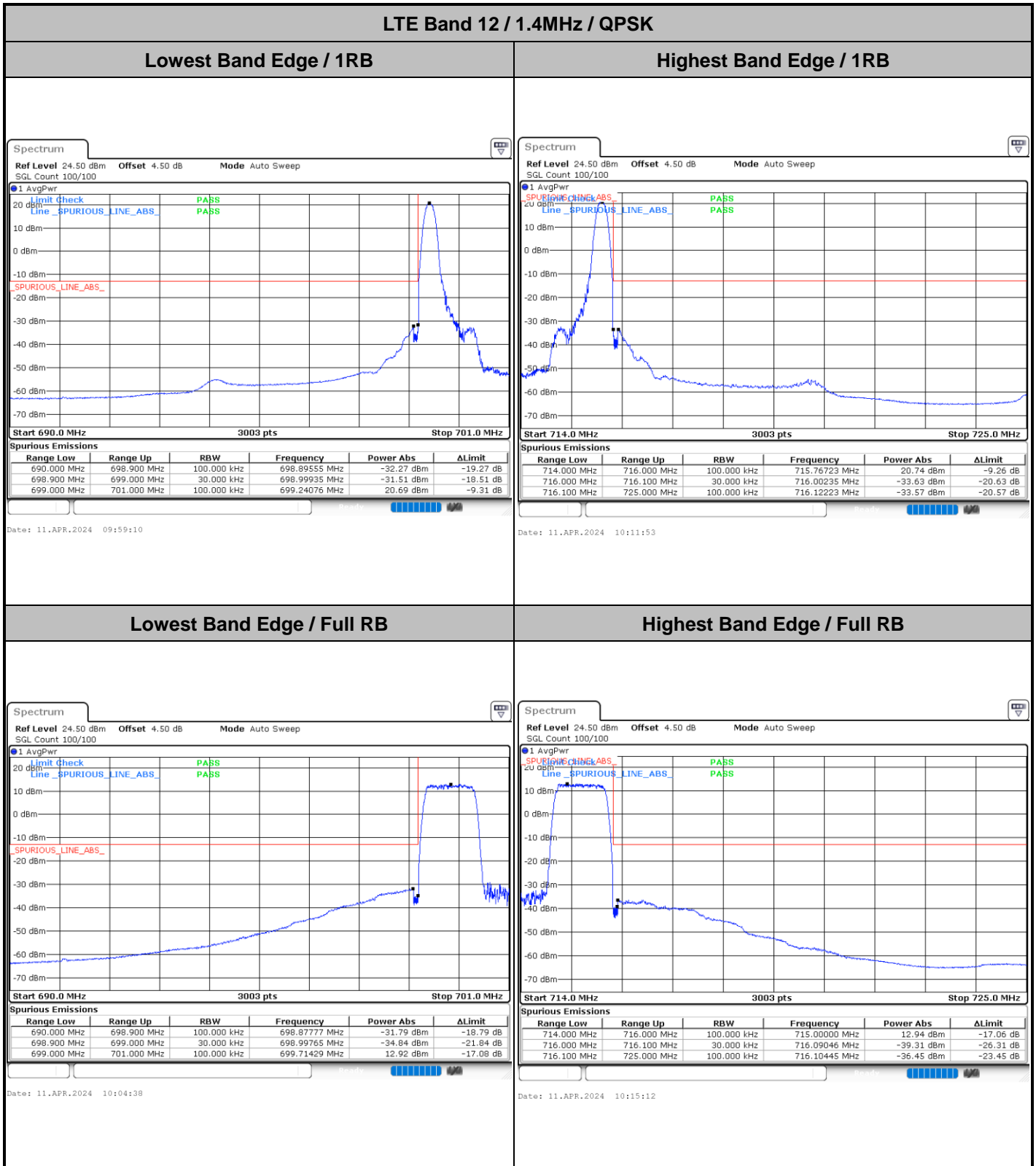
Middle Channel / 10MHz / 16QAM



Date: 11.APR.2024 11:44:13



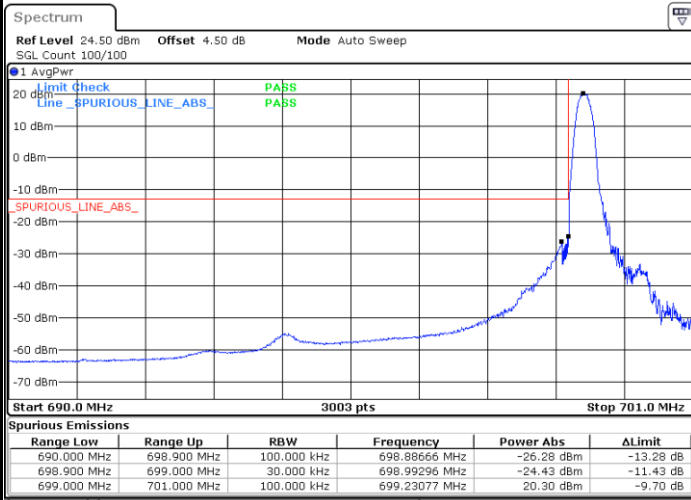
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



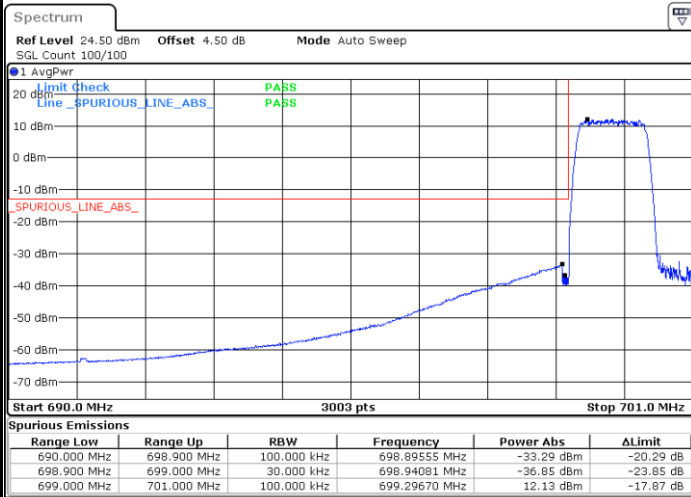
Date: 11.APR.2024 09:59:44

Highest Band Edge / 1 RB



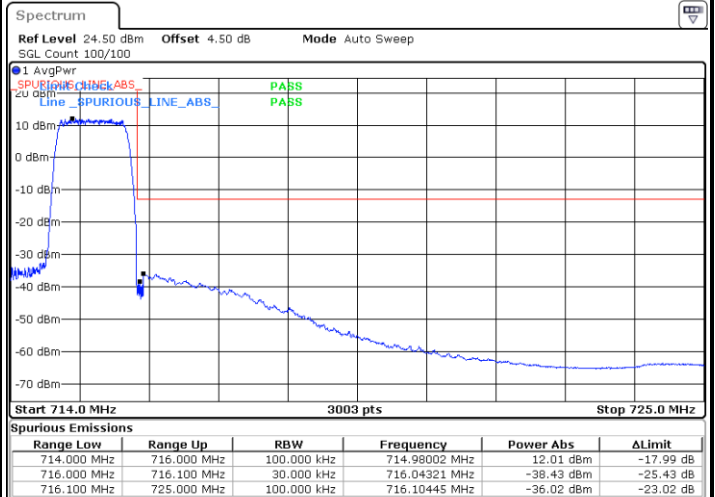
Date: 11.APR.2024 10:10:55

Lowest Band Edge / Full RB



Date: 11.APR.2024 10:04:01

Highest Band Edge / Full RB

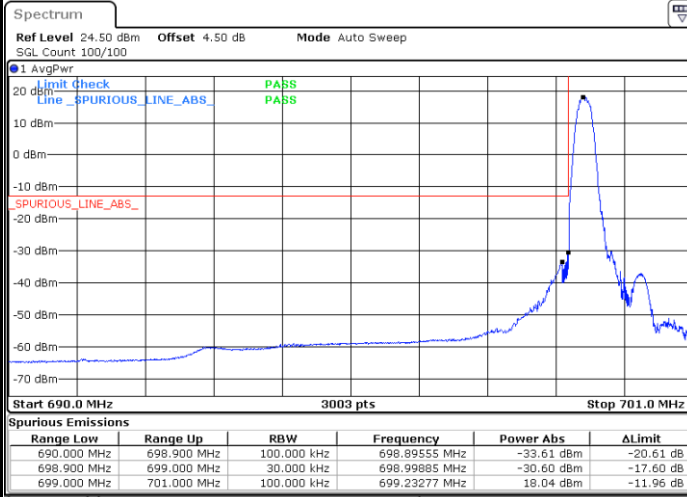


Date: 11.APR.2024 10:14:34

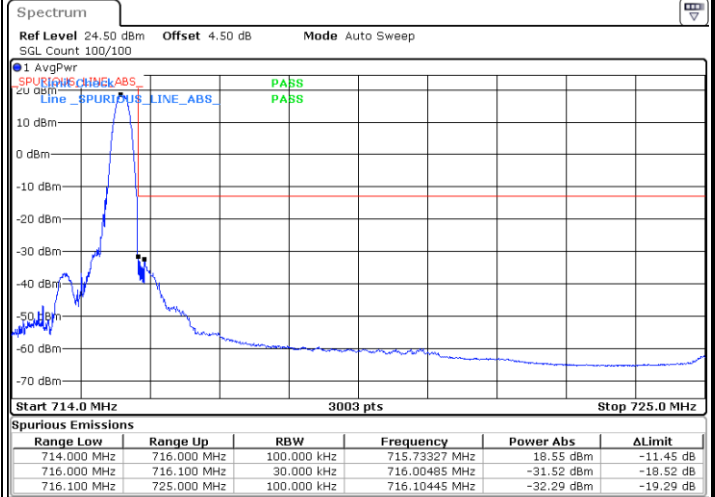


LTE Band 12 / 1.4MHz / 64QAM

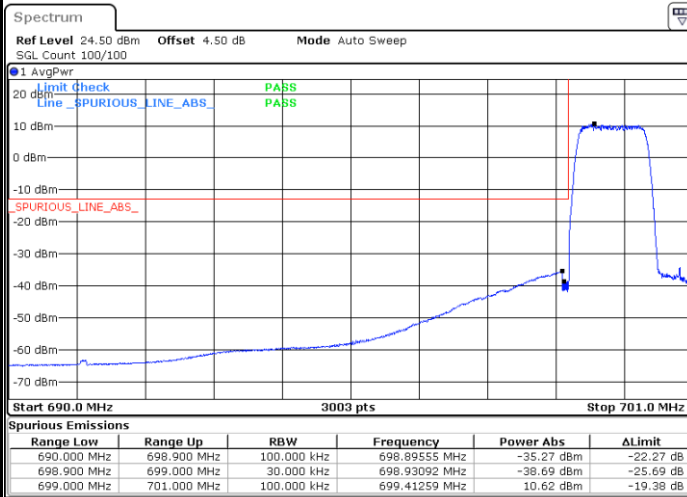
Lowest Band Edge / 1 RB



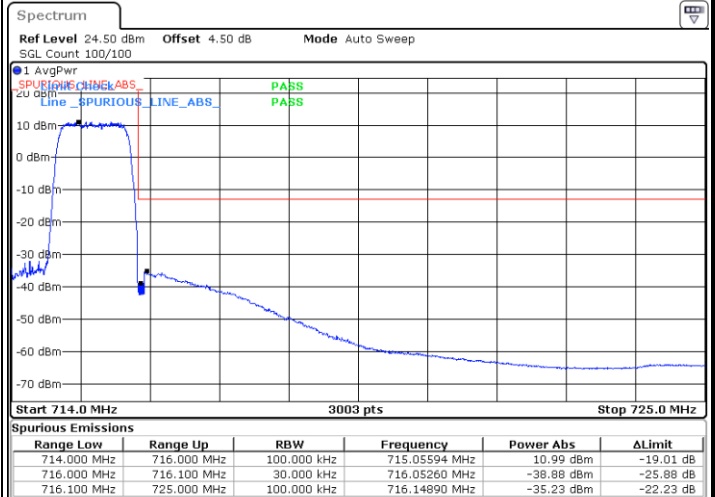
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



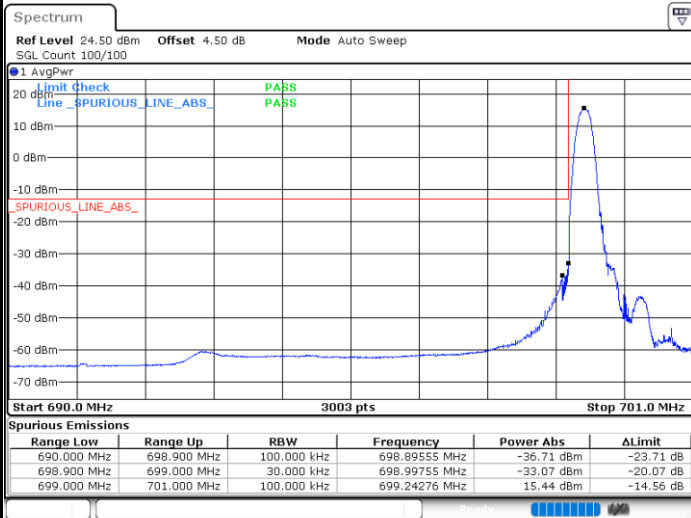
Highest Band Edge / Full RB





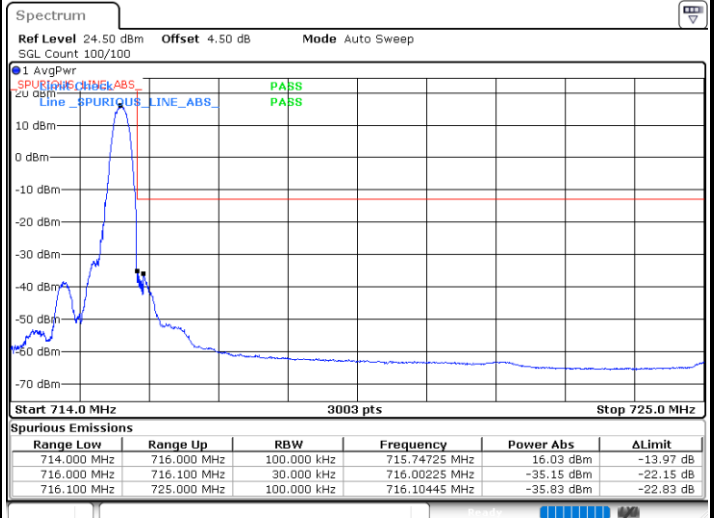
LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



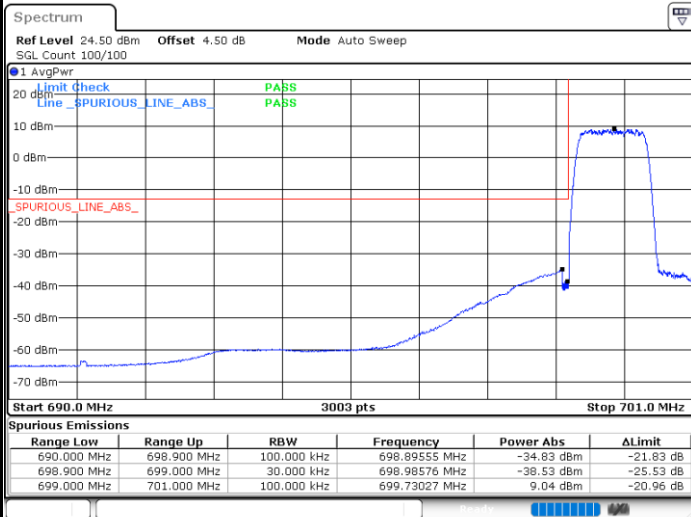
Date: 11.APR.2024 10:00:59

Highest Band Edge / 1 RB



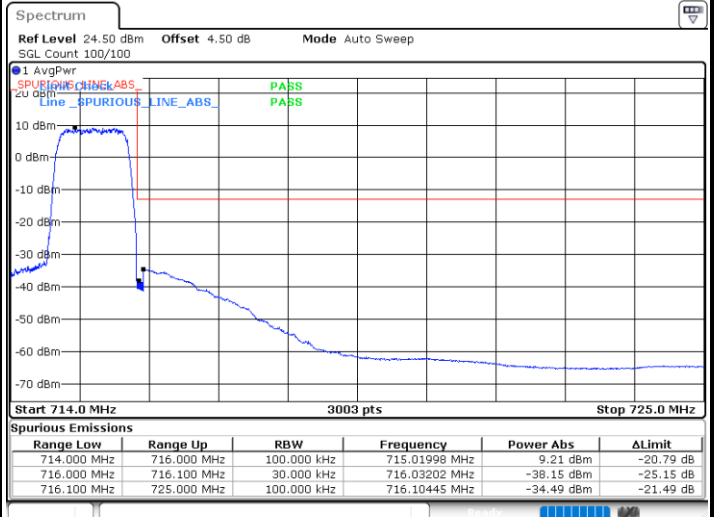
Date: 11.APR.2024 10:12:42

Lowest Band Edge / Full RB



Date: 11.APR.2024 10:02:50

Highest Band Edge / Full RB

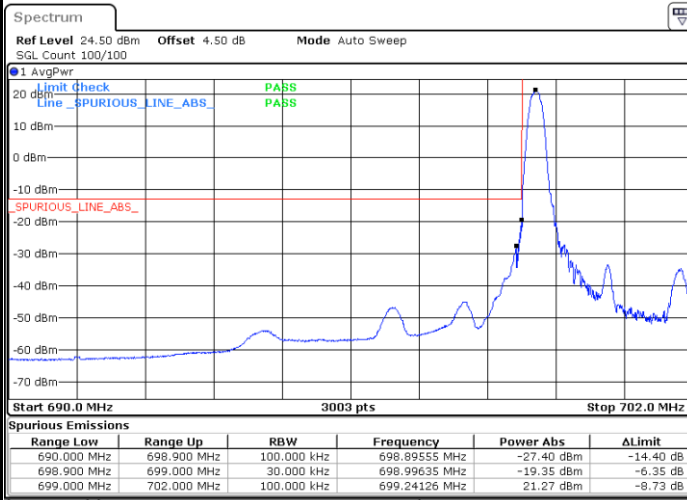


Date: 11.APR.2024 10:13:21



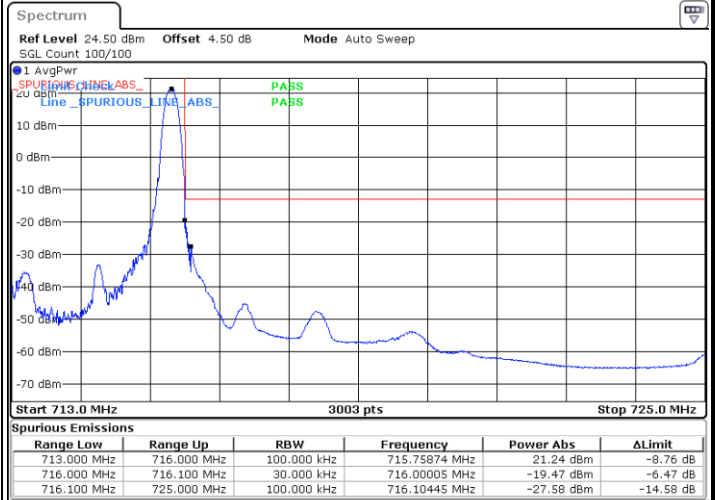
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



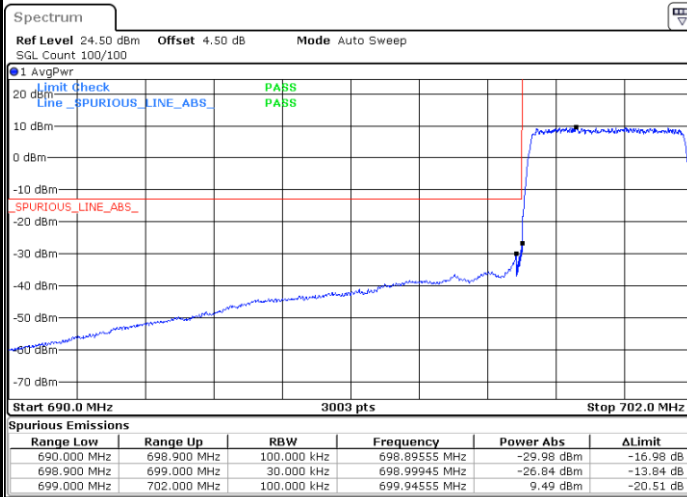
Date: 11.APR.2024 10:38:02

Highest Band Edge / 1 RB



Date: 11.APR.2024 10:51:56

Lowest Band Edge / Full RB



Date: 11.APR.2024 10:44:30

Highest Band Edge / Full RB

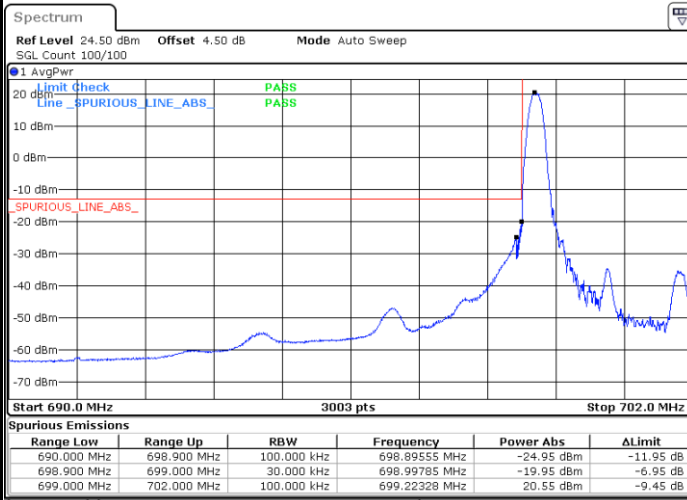


Date: 11.APR.2024 11:00:15



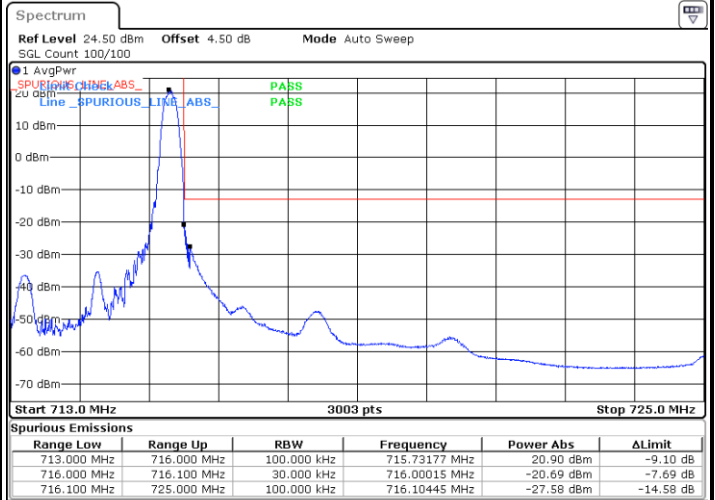
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



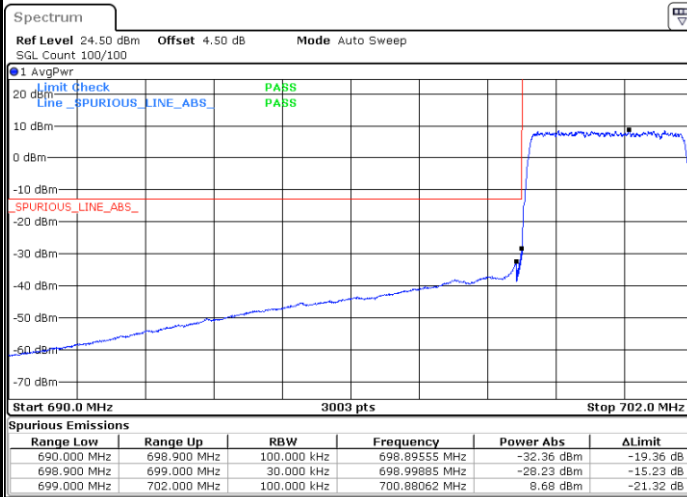
Date: 11.APR.2024 10:38:55

Highest Band Edge / 1 RB



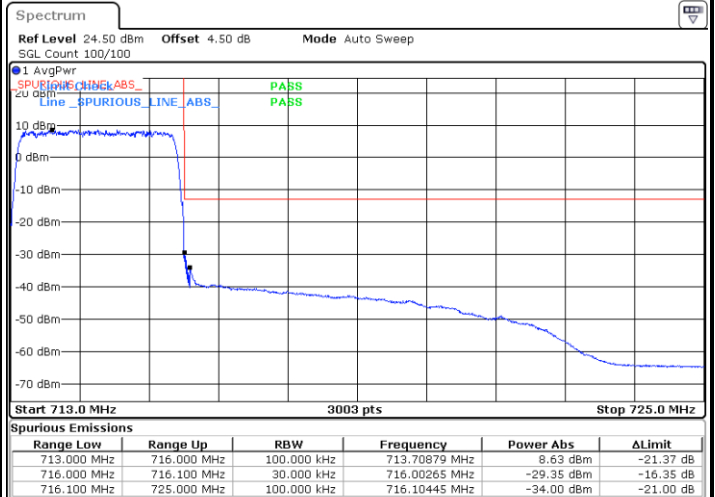
Date: 11.APR.2024 10:52:54

Lowest Band Edge / Full RB



Date: 11.APR.2024 10:43:57

Highest Band Edge / Full RB

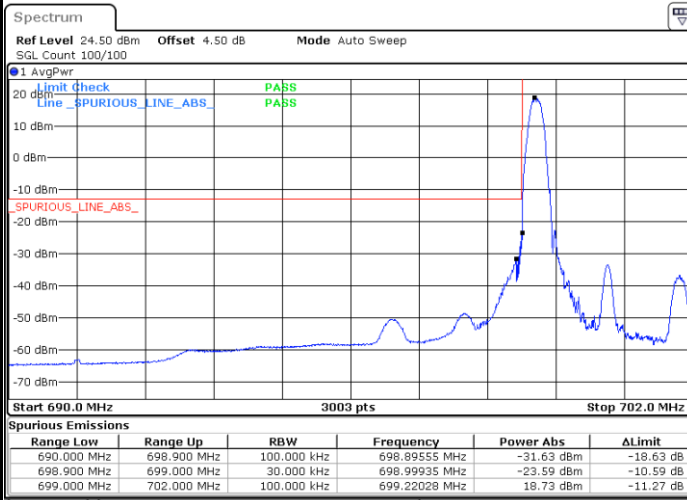


Date: 11.APR.2024 10:59:20



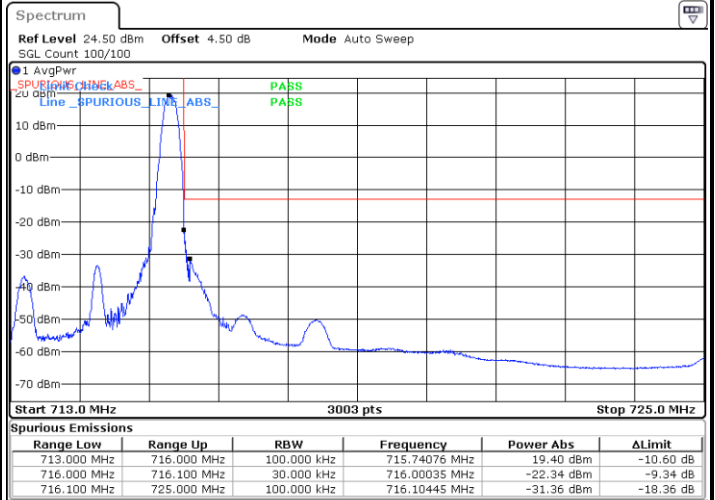
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



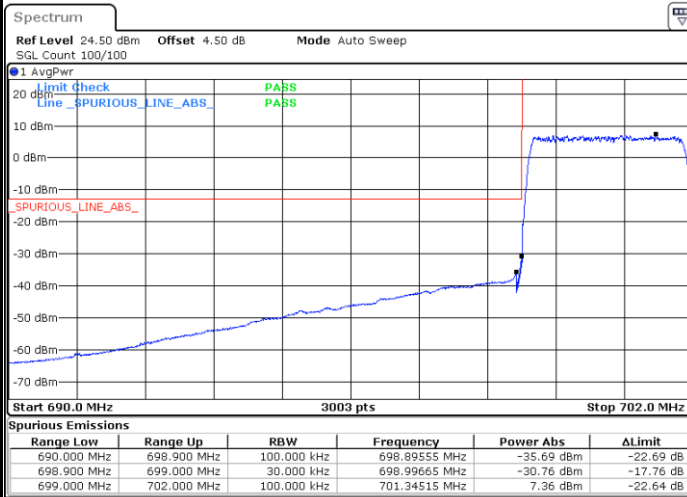
Date: 11.APR.2024 10:39:30

Highest Band Edge / 1 RB



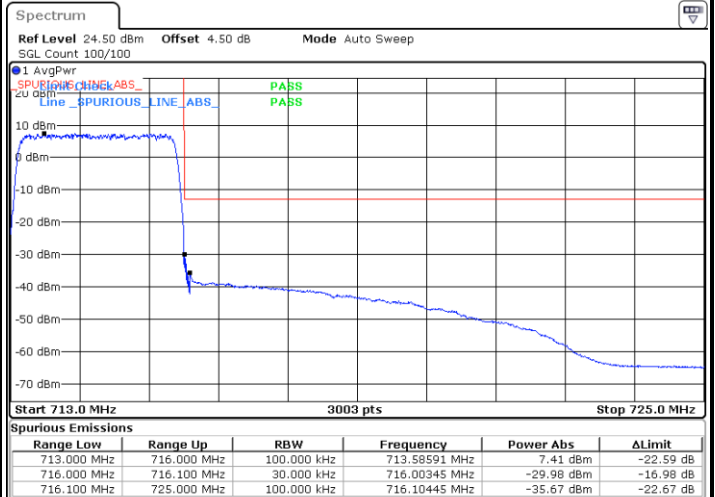
Date: 11.APR.2024 10:53:37

Lowest Band Edge / Full RB



Date: 11.APR.2024 10:42:56

Highest Band Edge / Full RB

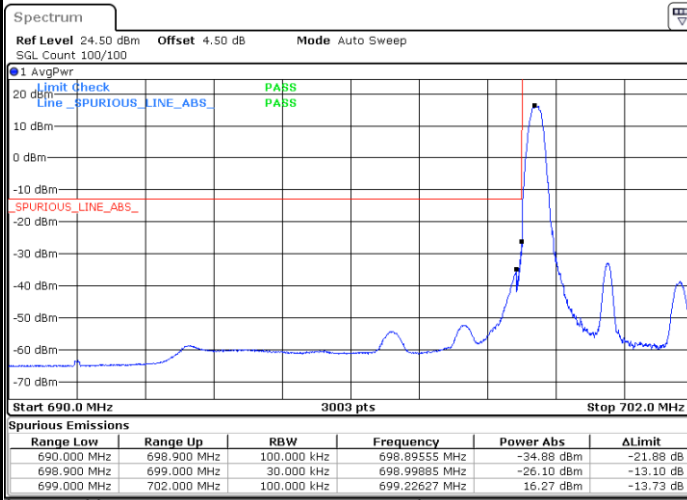


Date: 11.APR.2024 10:58:29



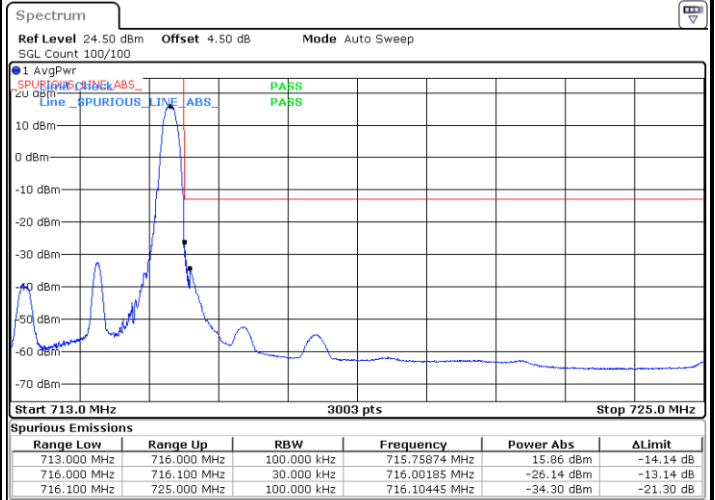
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



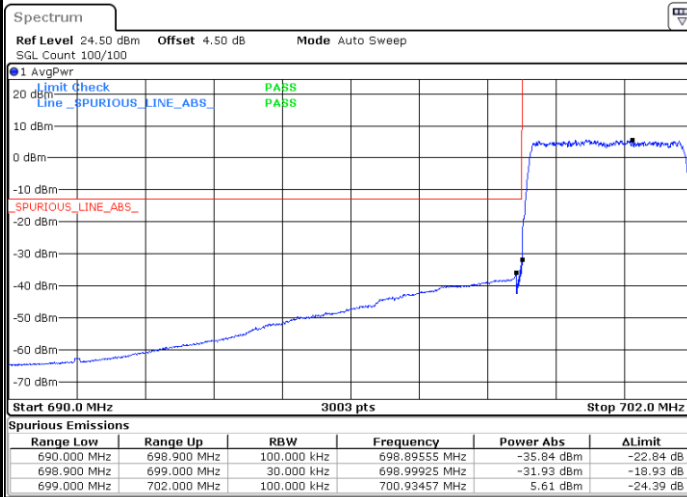
Date: 11.APR.2024 10:40:09

Highest Band Edge / 1 RB



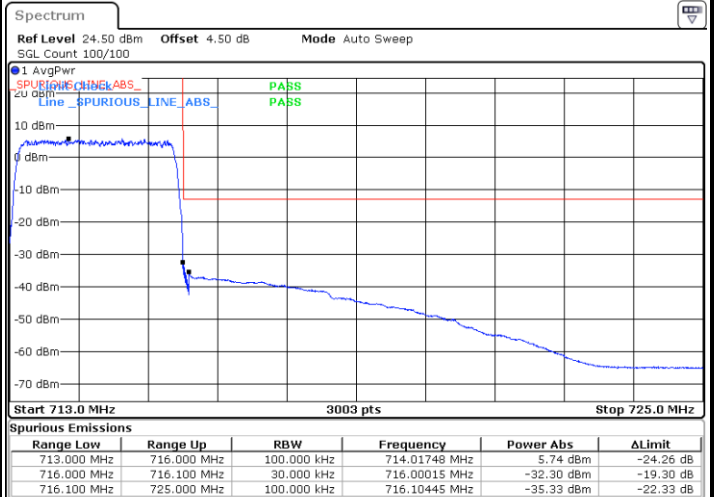
Date: 11.APR.2024 10:54:28

Lowest Band Edge / Full RB



Date: 11.APR.2024 10:41:44

Highest Band Edge / Full RB



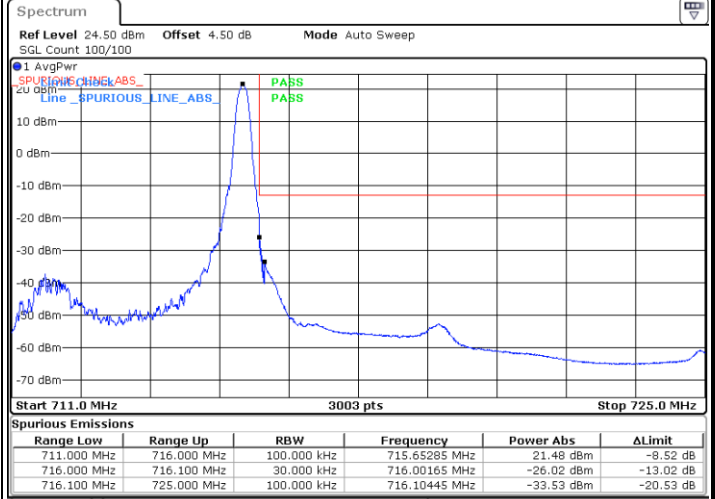
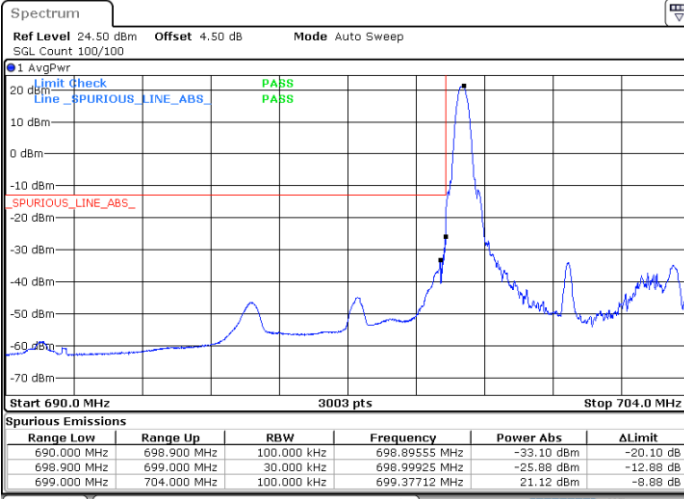
Date: 11.APR.2024 10:56:07



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

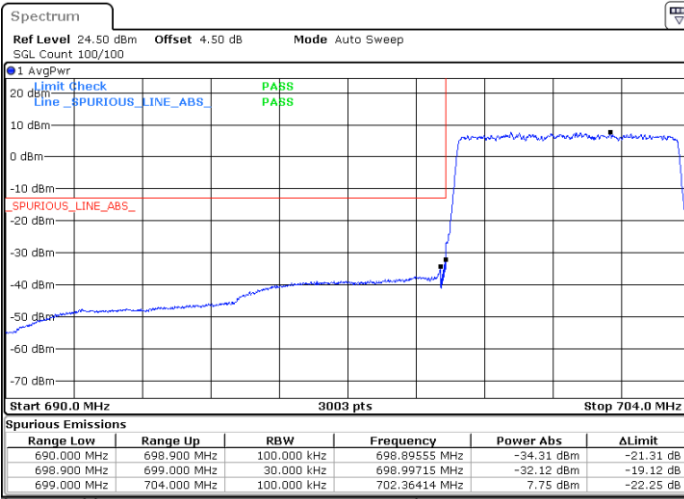


Date: 11.APR.2024 11:06:53

Date: 11.APR.2024 11:24:39

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



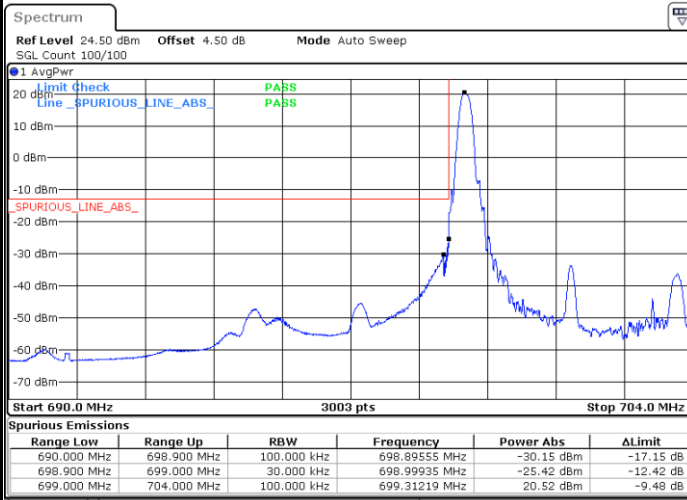
Date: 11.APR.2024 11:16:20

Date: 11.APR.2024 11:33:06



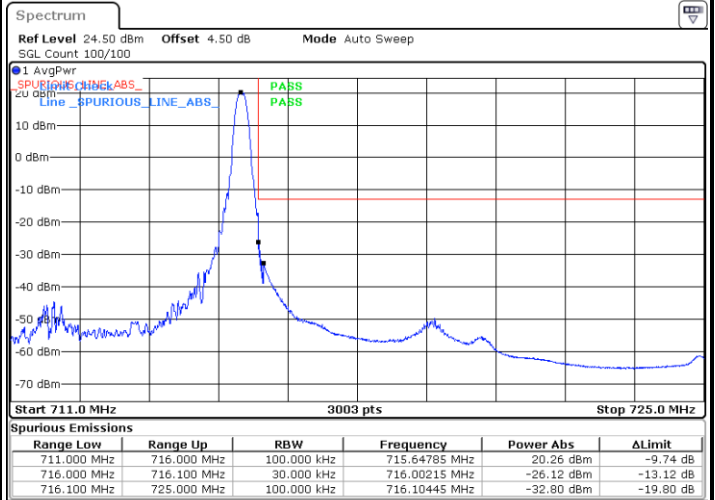
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



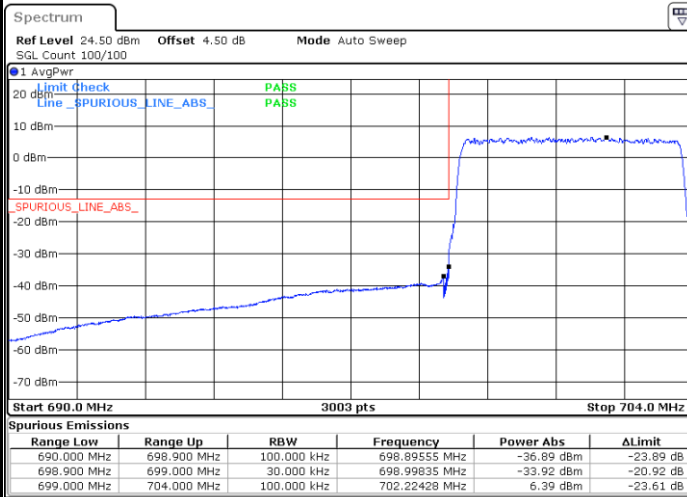
Date: 11.APR.2024 11:08:03

Highest Band Edge / 1 RB



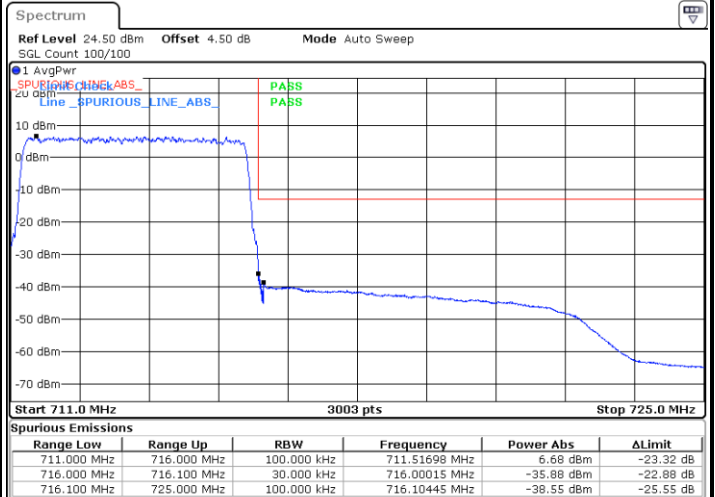
Date: 11.APR.2024 11:25:13

Lowest Band Edge / Full RB



Date: 11.APR.2024 11:15:37

Highest Band Edge / Full RB

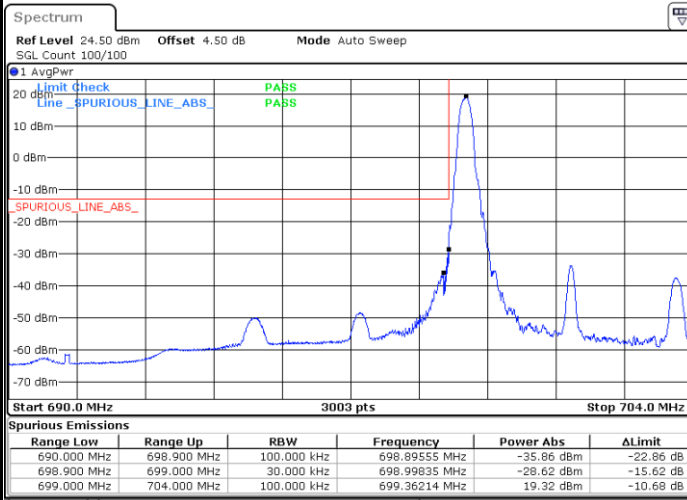


Date: 11.APR.2024 11:32:02



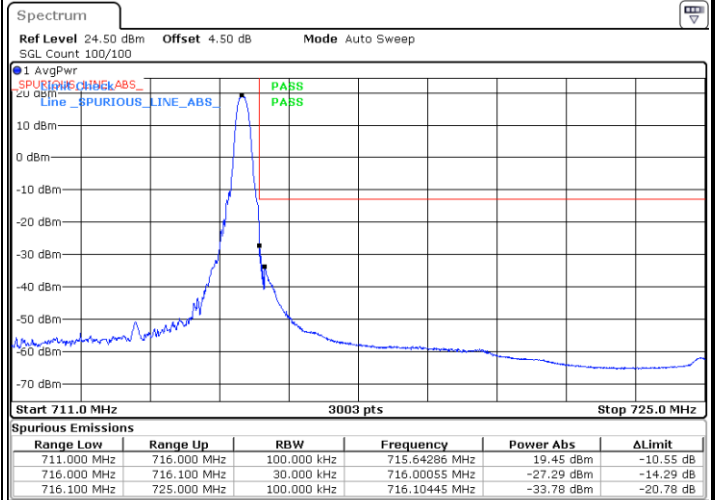
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



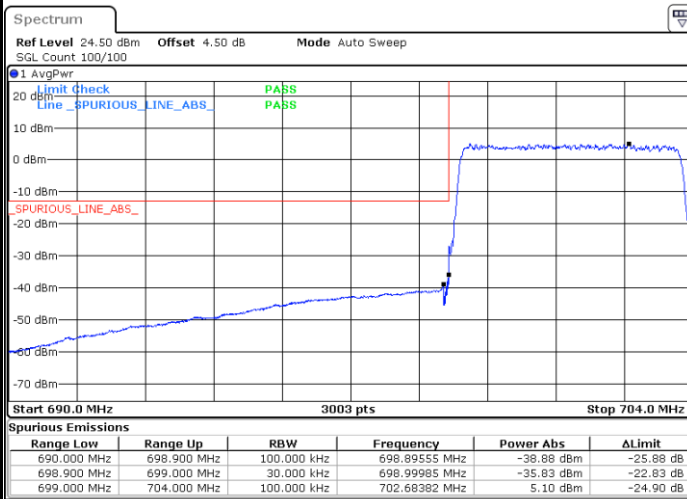
Date: 11.APR.2024 11:09:43

Highest Band Edge / 1 RB



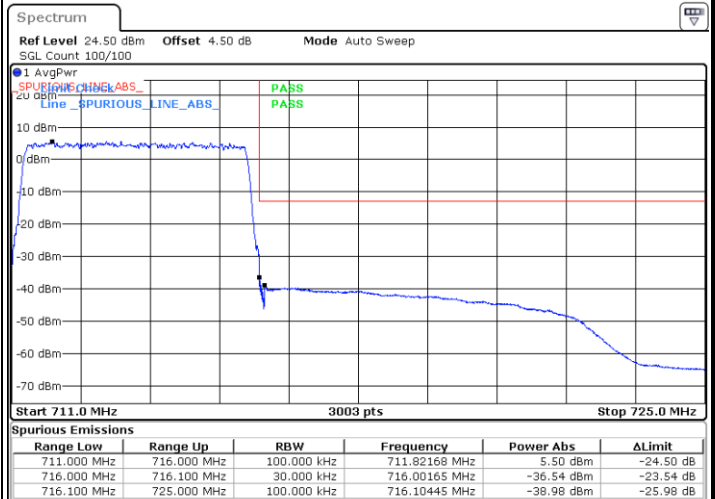
Date: 11.APR.2024 11:26:08

Lowest Band Edge / Full RB



Date: 11.APR.2024 11:14:00

Highest Band Edge / Full RB

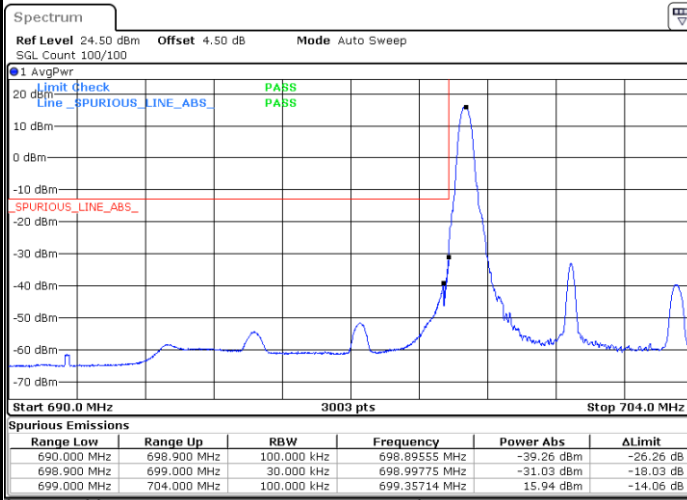


Date: 11.APR.2024 11:31:20



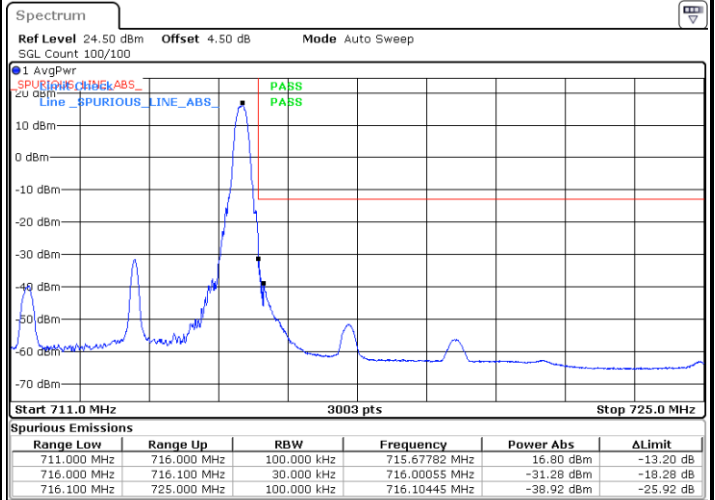
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



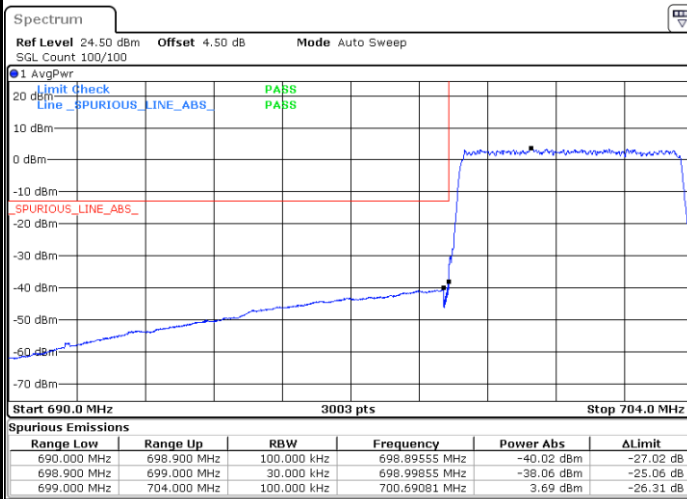
Date: 11.APR.2024 11:11:30

Highest Band Edge / 1 RB



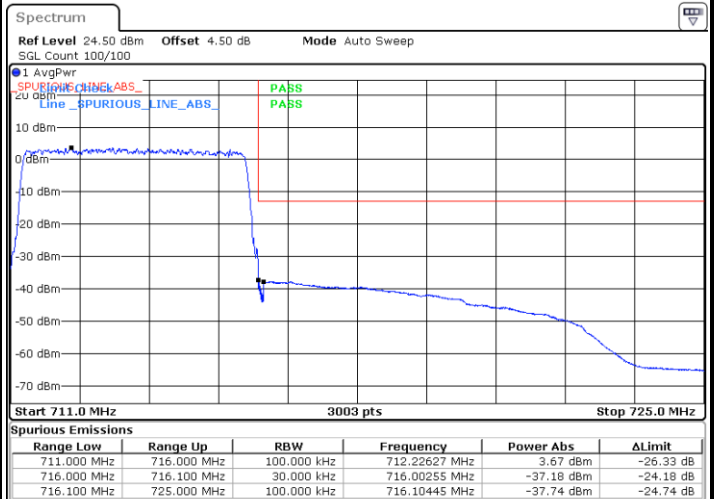
Date: 11.APR.2024 11:29:37

Lowest Band Edge / Full RB



Date: 11.APR.2024 11:12:47

Highest Band Edge / Full RB

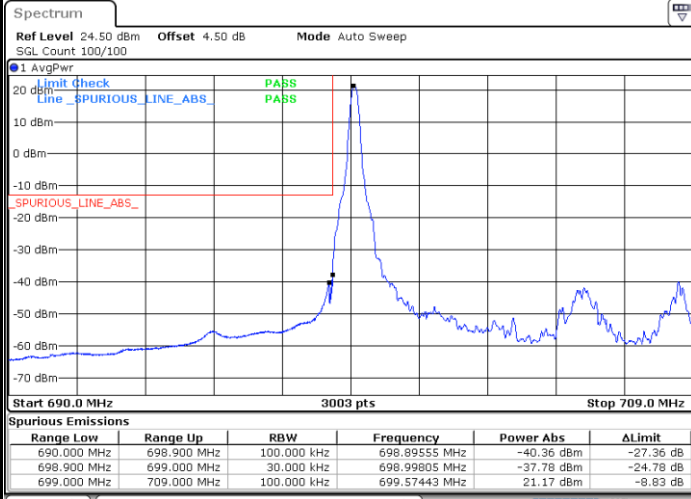


Date: 11.APR.2024 11:30:32



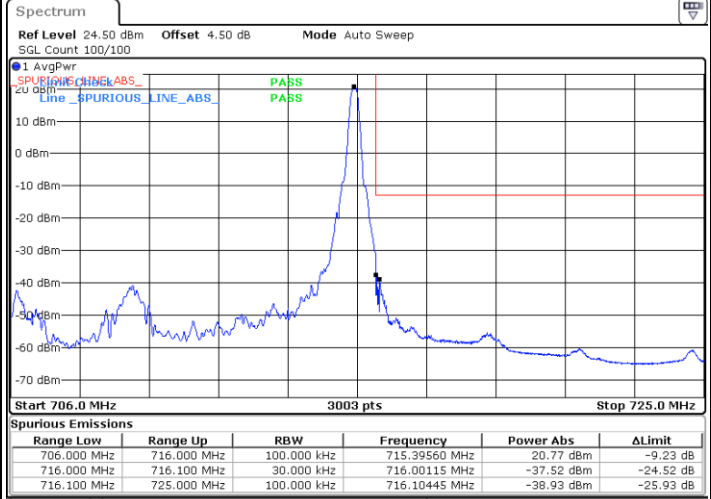
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



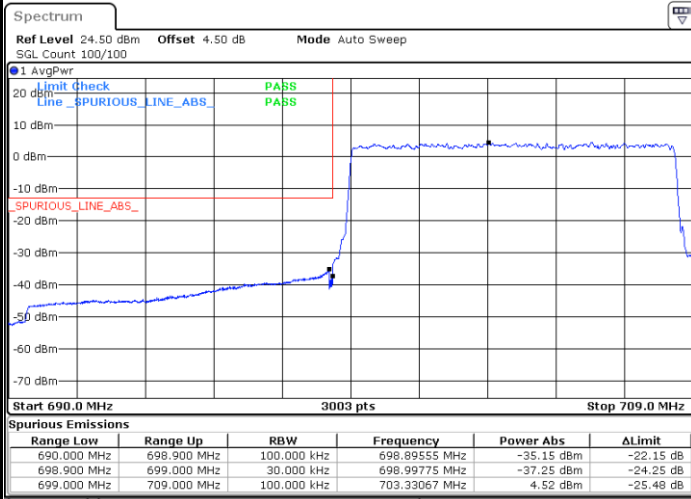
Date: 11.APR.2024 11:37:13

Highest Band Edge / 1 RB



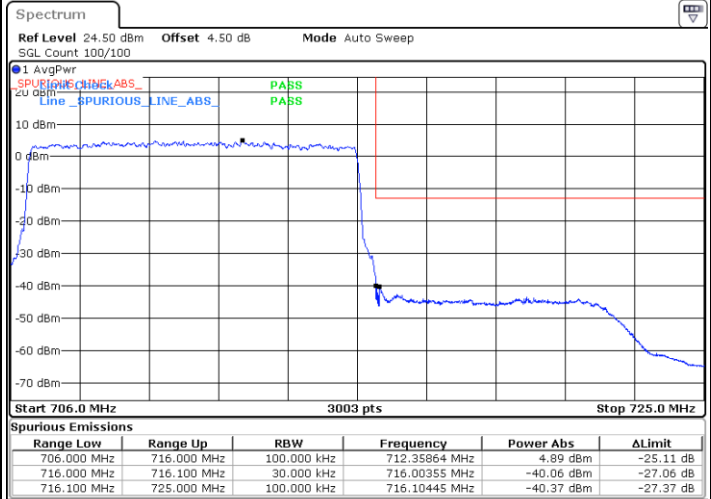
Date: 11.APR.2024 11:51:16

Lowest Band Edge / Full RB



Date: 11.APR.2024 11:42:15

Highest Band Edge / Full RB

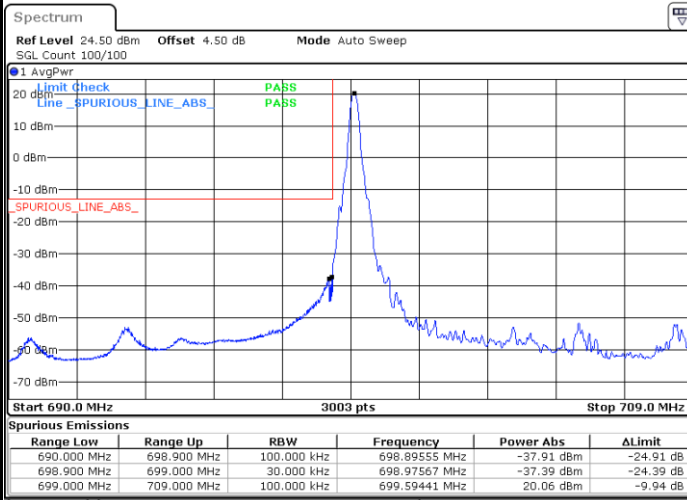


Date: 11.APR.2024 12:57:23



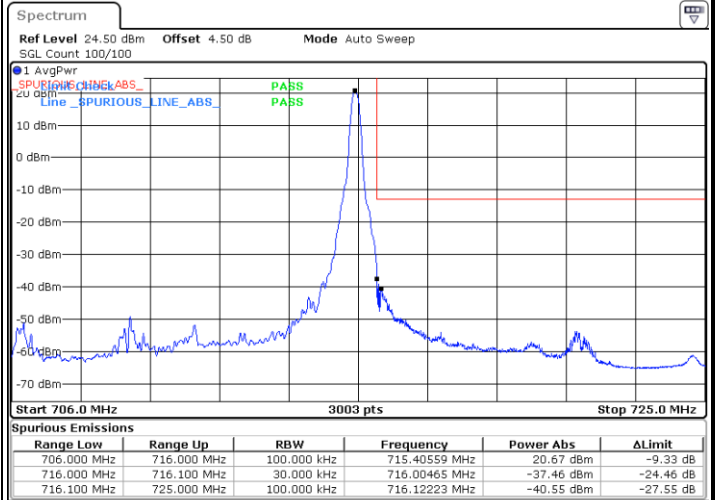
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



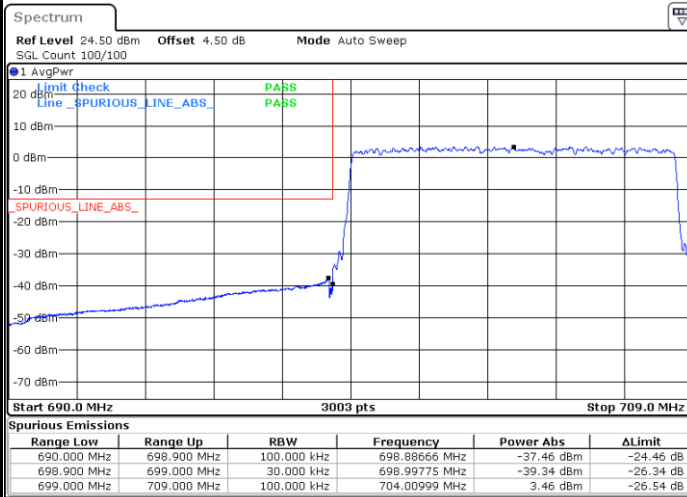
Date: 11.APR.2024 11:37:49

Highest Band Edge / 1 RB



Date: 11.APR.2024 11:51:51

Lowest Band Edge / Full RB



Date: 11.APR.2024 11:41:28

Highest Band Edge / Full RB

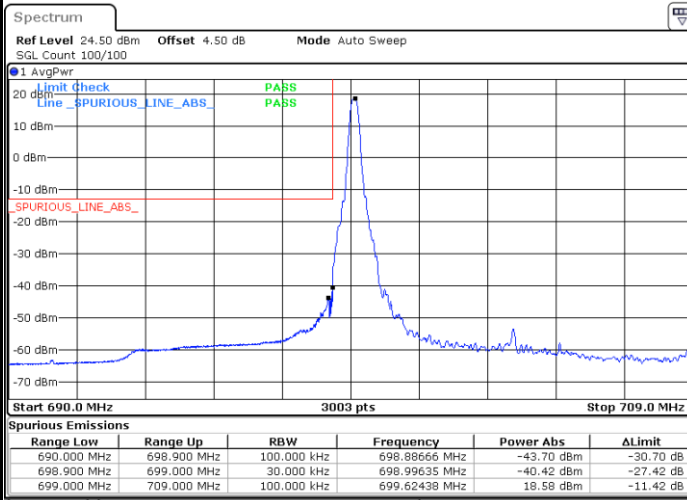


Date: 11.APR.2024 12:56:43



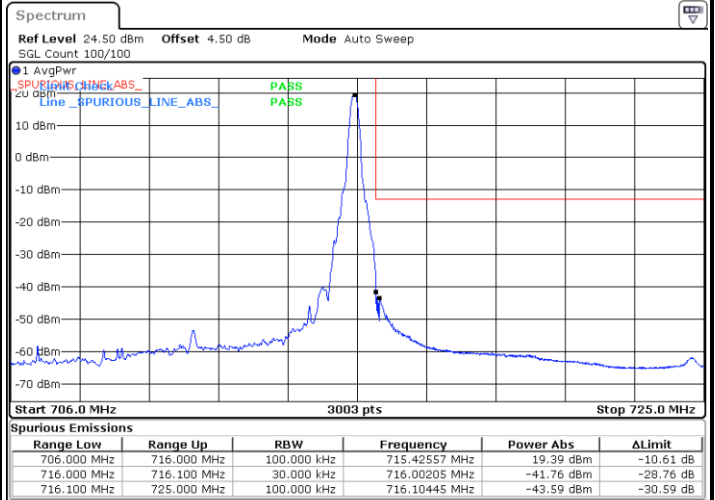
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



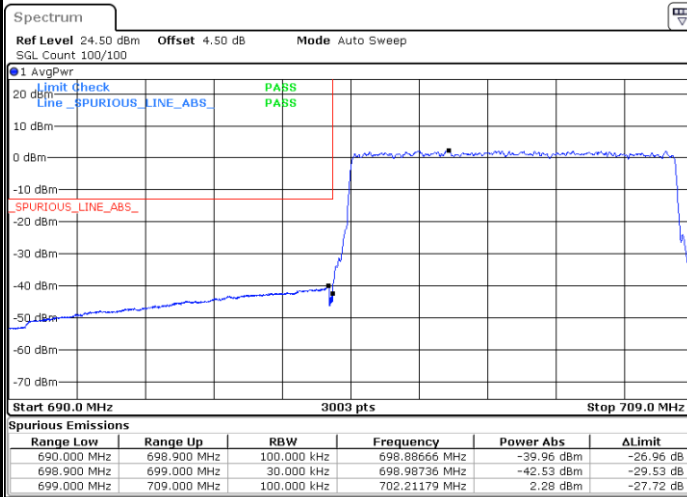
Date: 11.APR.2024 11:38:30

Highest Band Edge / 1 RB



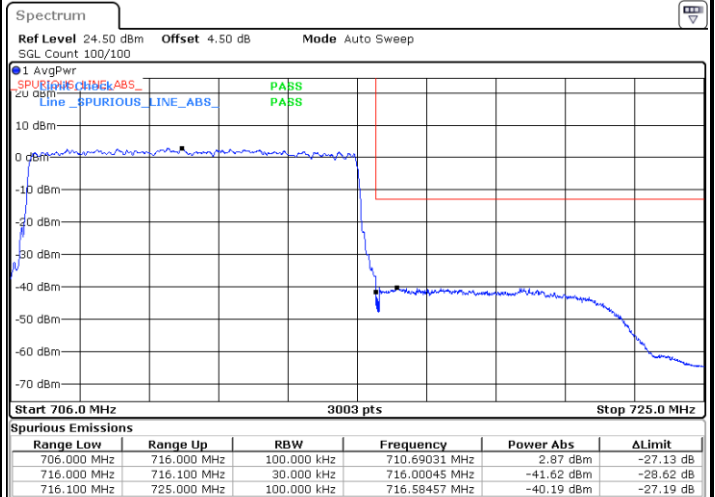
Date: 11.APR.2024 11:52:23

Lowest Band Edge / Full RB



Date: 11.APR.2024 11:40:43

Highest Band Edge / Full RB

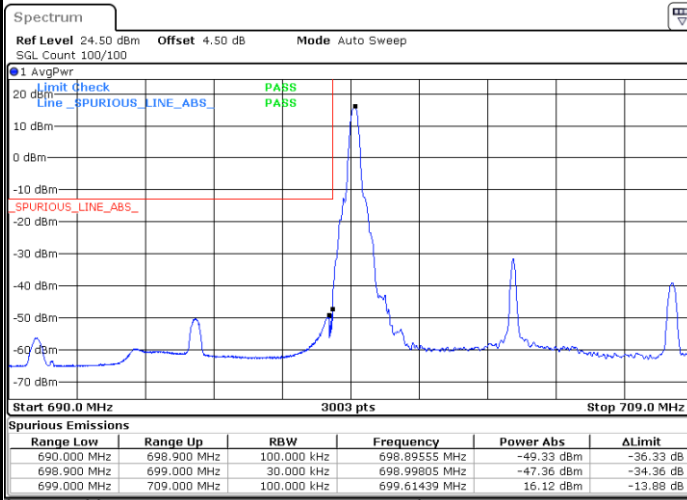


Date: 11.APR.2024 12:56:07



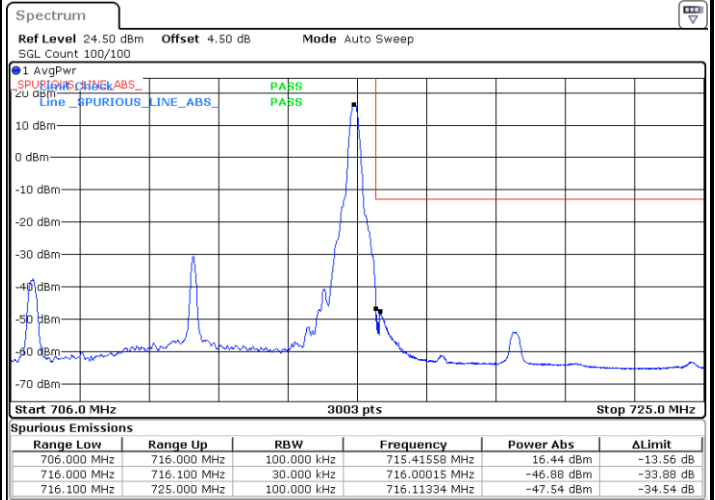
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



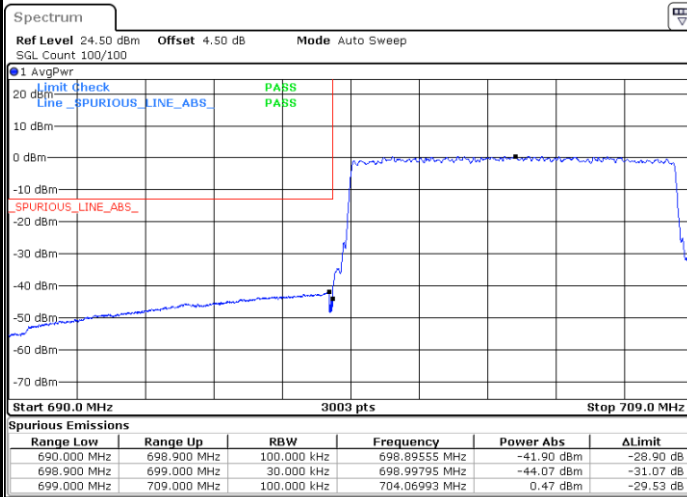
Date: 11.APR.2024 11:39:06

Highest Band Edge / 1 RB



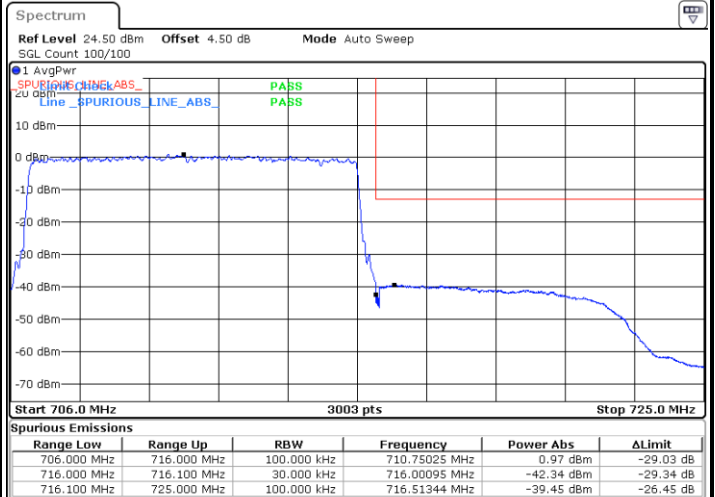
Date: 11.APR.2024 12:54:33

Lowest Band Edge / Full RB



Date: 11.APR.2024 11:39:49

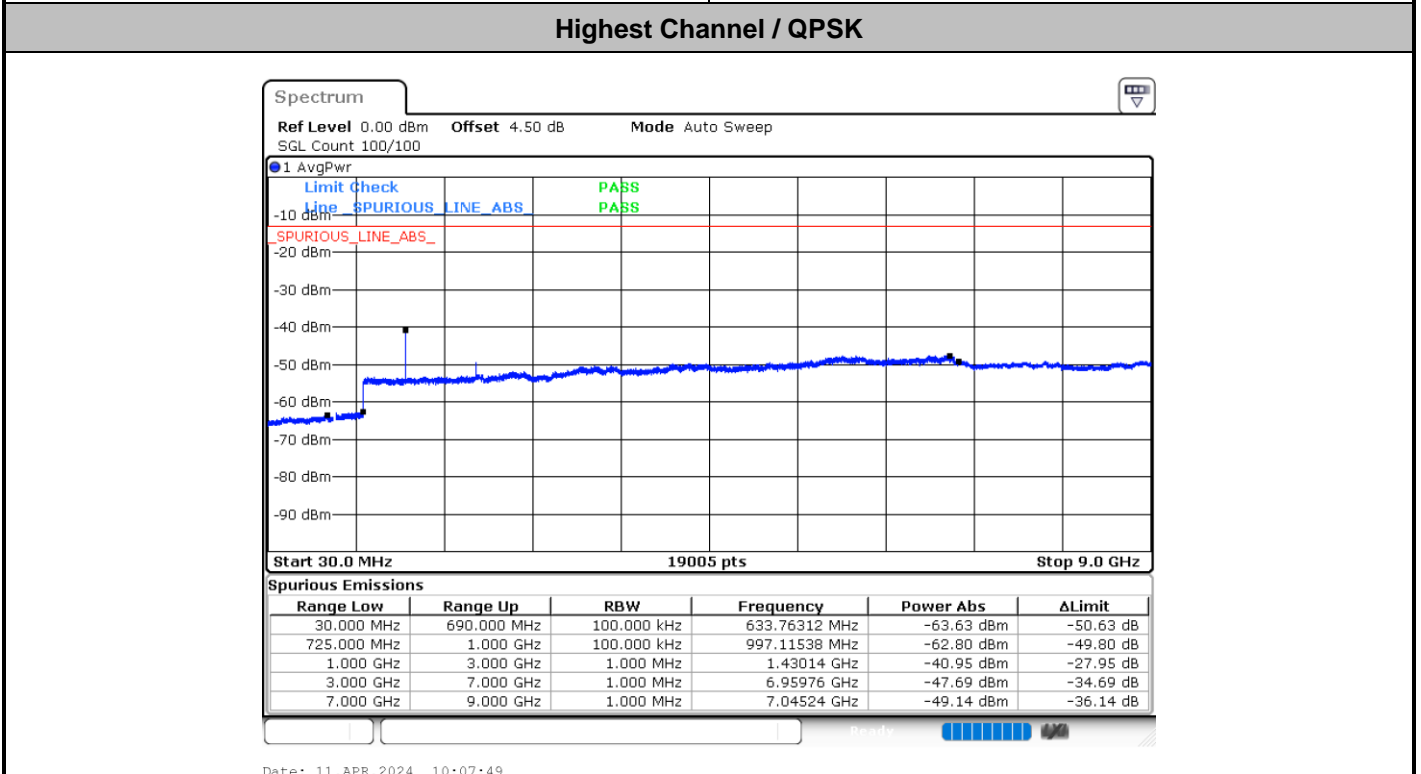
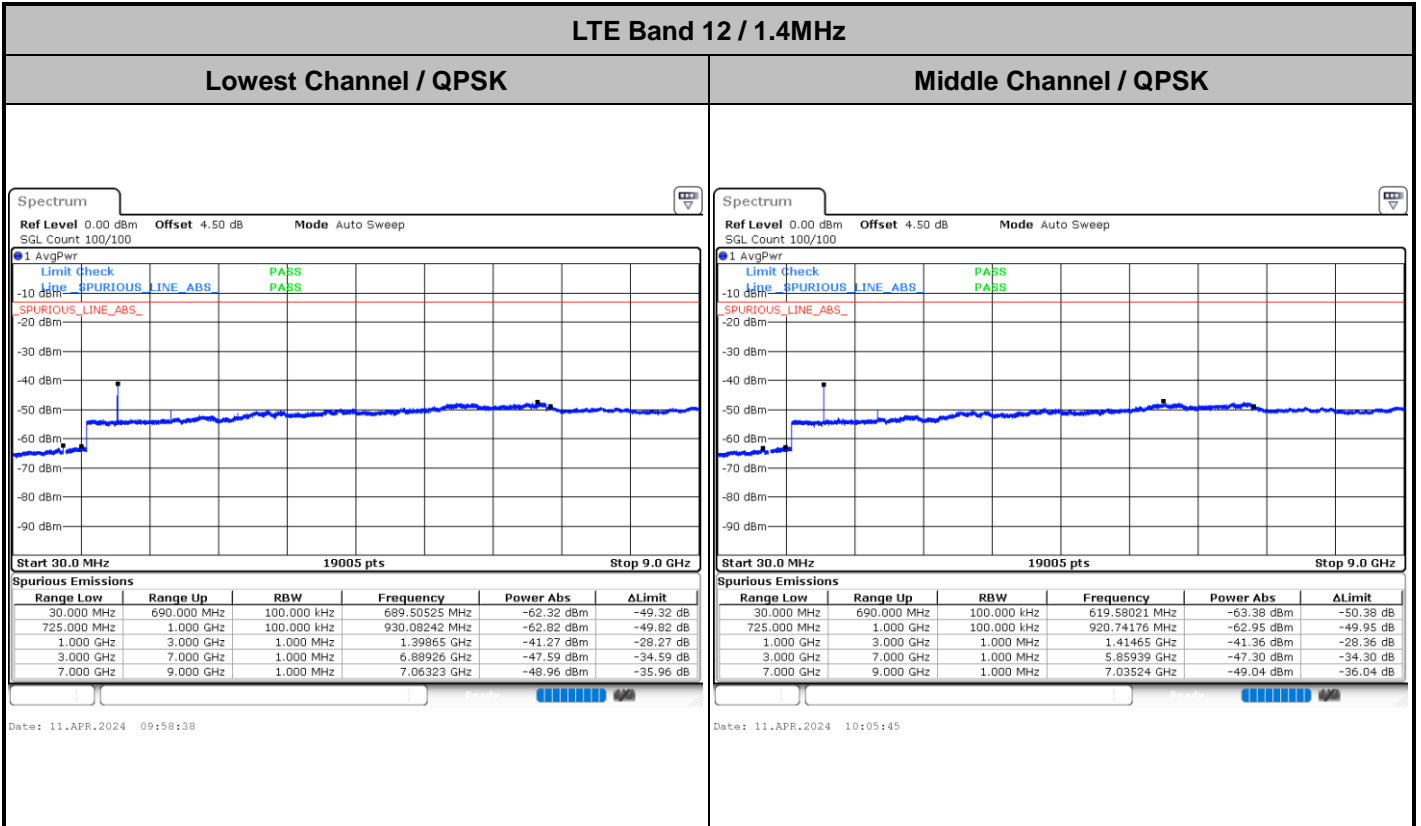
Highest Band Edge / Full RB



Date: 11.APR.2024 12:55:13



Conducted Spurious Emission

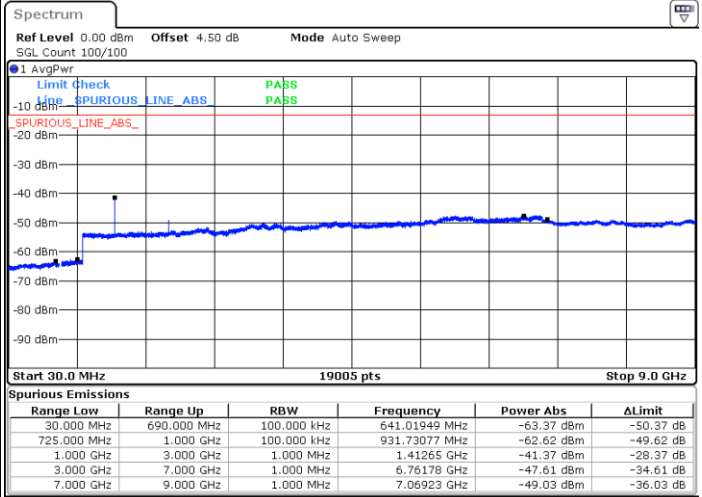
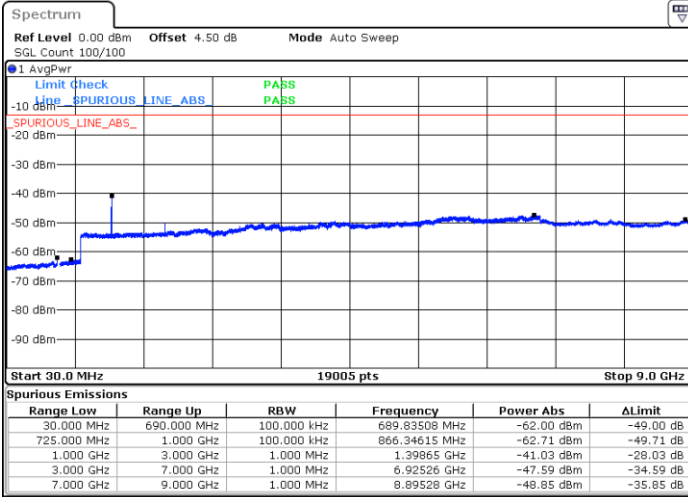




LTE Band 12 / 3MHz

Lowest Channel / QPSK

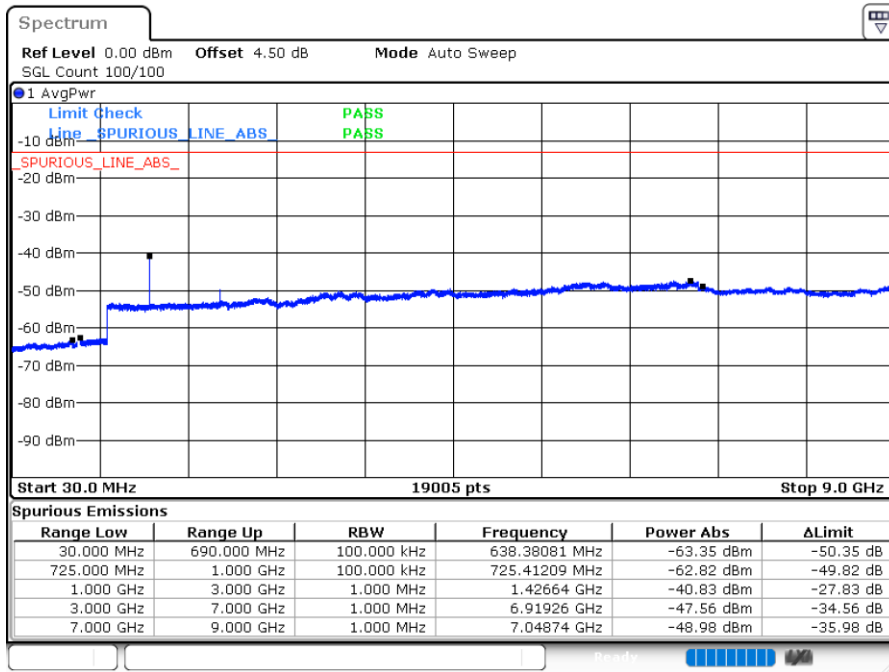
Middle Channel / QPSK



Date: 11.APR.2024 10:16:36

Date: 11.APR.2024 10:46:56

Highest Channel / QPSK



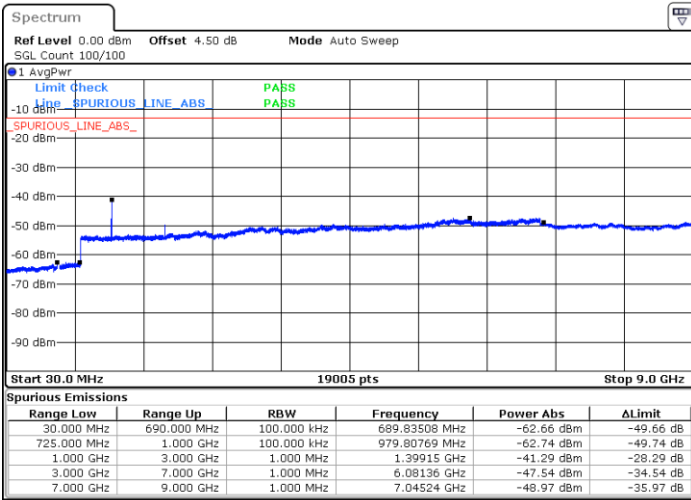
Date: 11.APR.2024 10:49:42



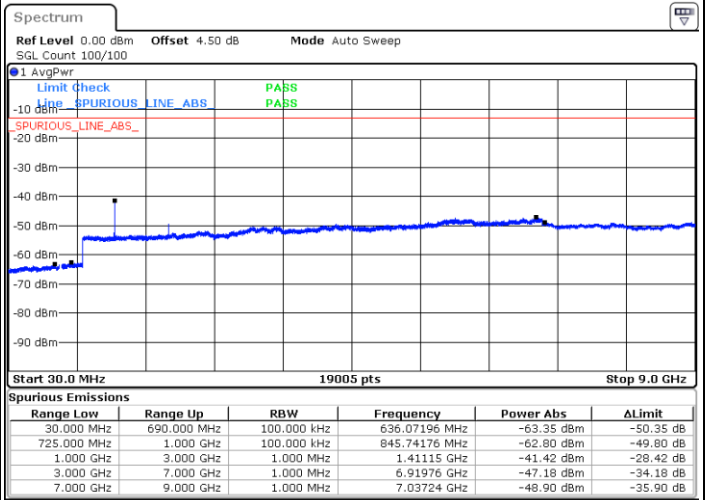
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

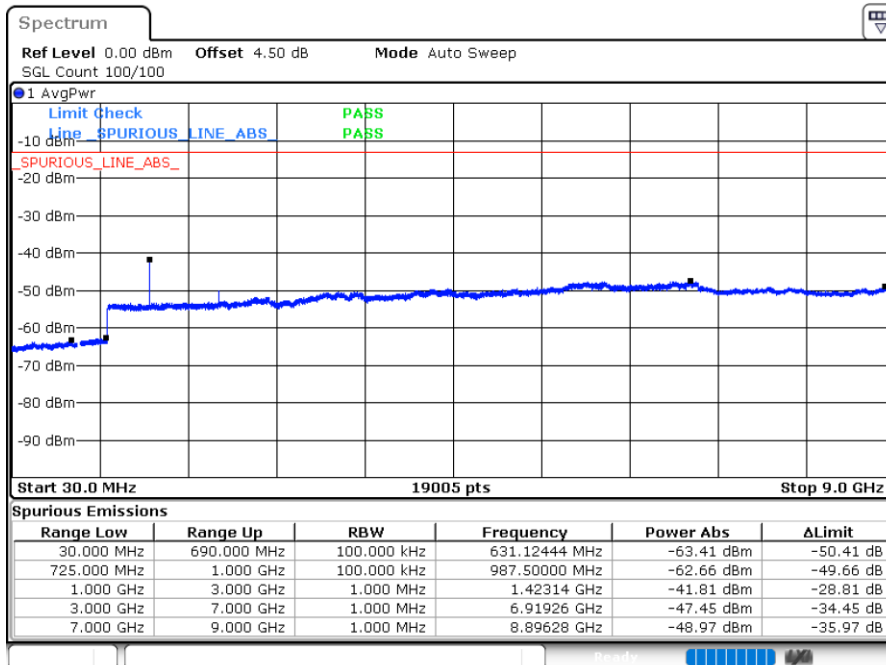


Date: 11.APR.2024 11:02:57



Date: 11.APR.2024 11:22:50

Highest Channel / QPSK



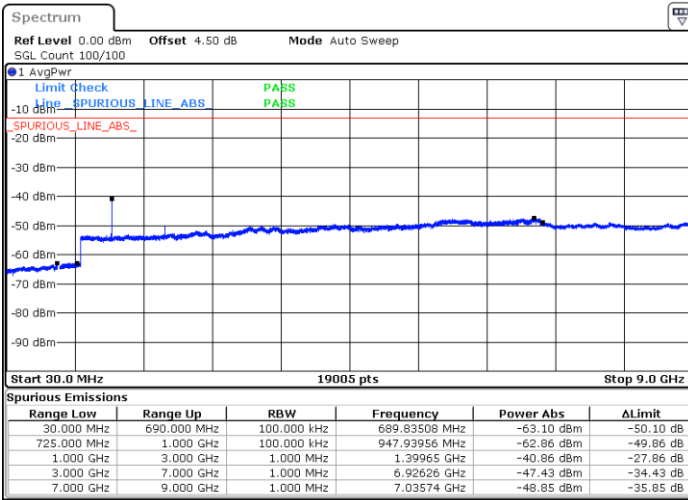
Date: 11.APR.2024 11:22:09



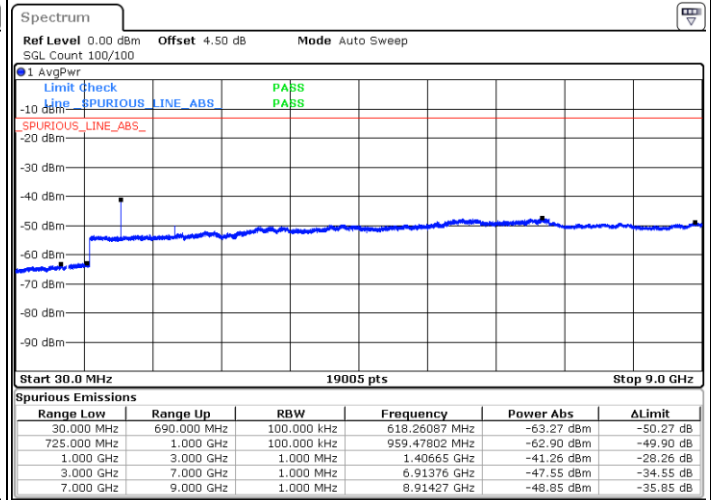
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

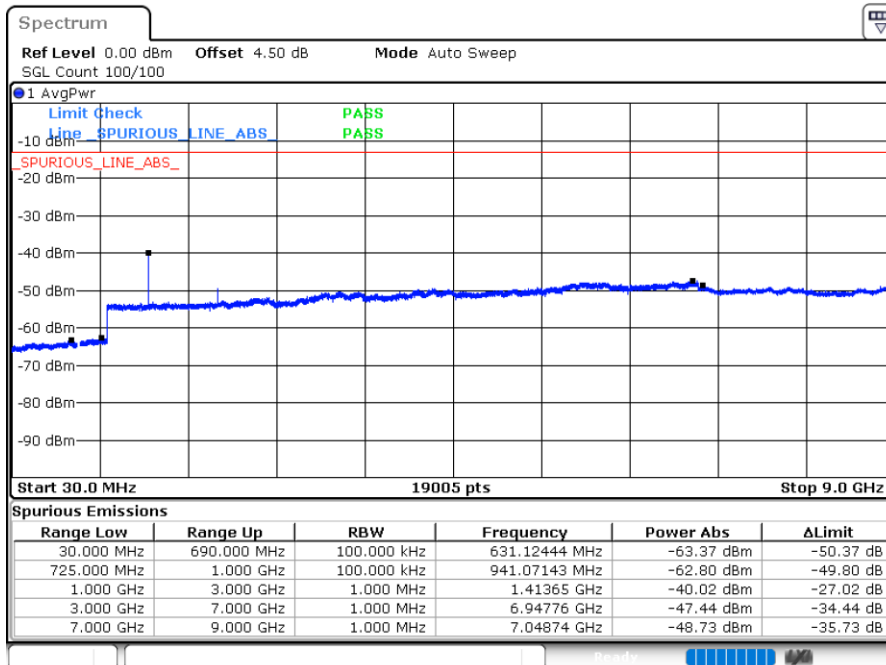


Date: 11.APR.2024 11:36:25



Date: 11.APR.2024 11:46:27

Highest Channel / QPSK



Date: 11.APR.2024 11:53:29



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	0.0046	PASS
40	Normal Voltage	0.0052	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0061	
20	Normal Voltage	0.0064	
20	Battery End Point	0.0037	

Note:

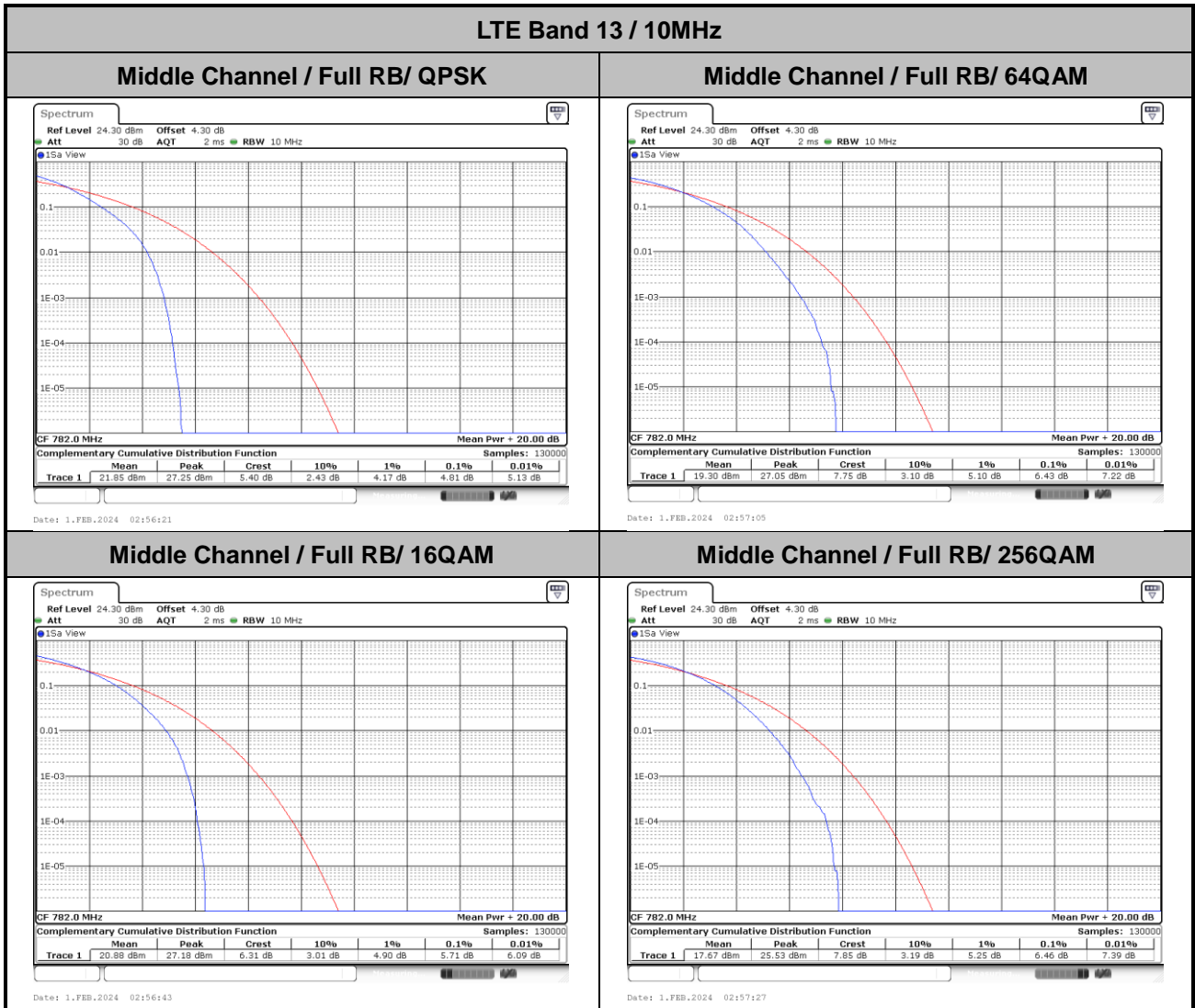
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13 (Main PA)

Peak-to-Average Ratio

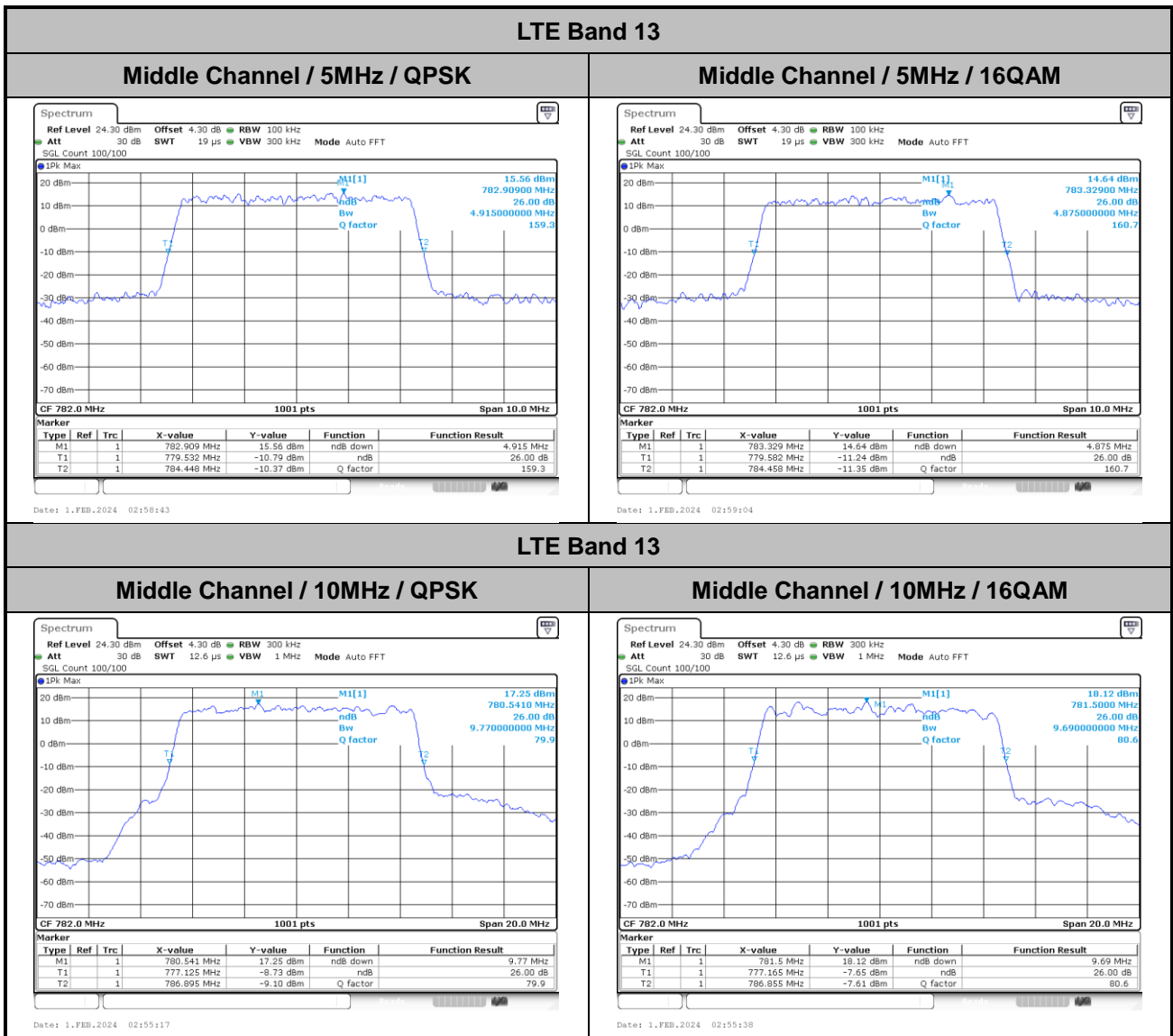
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.81	5.71	6.43	6.46	PASS





26dB Bandwidth

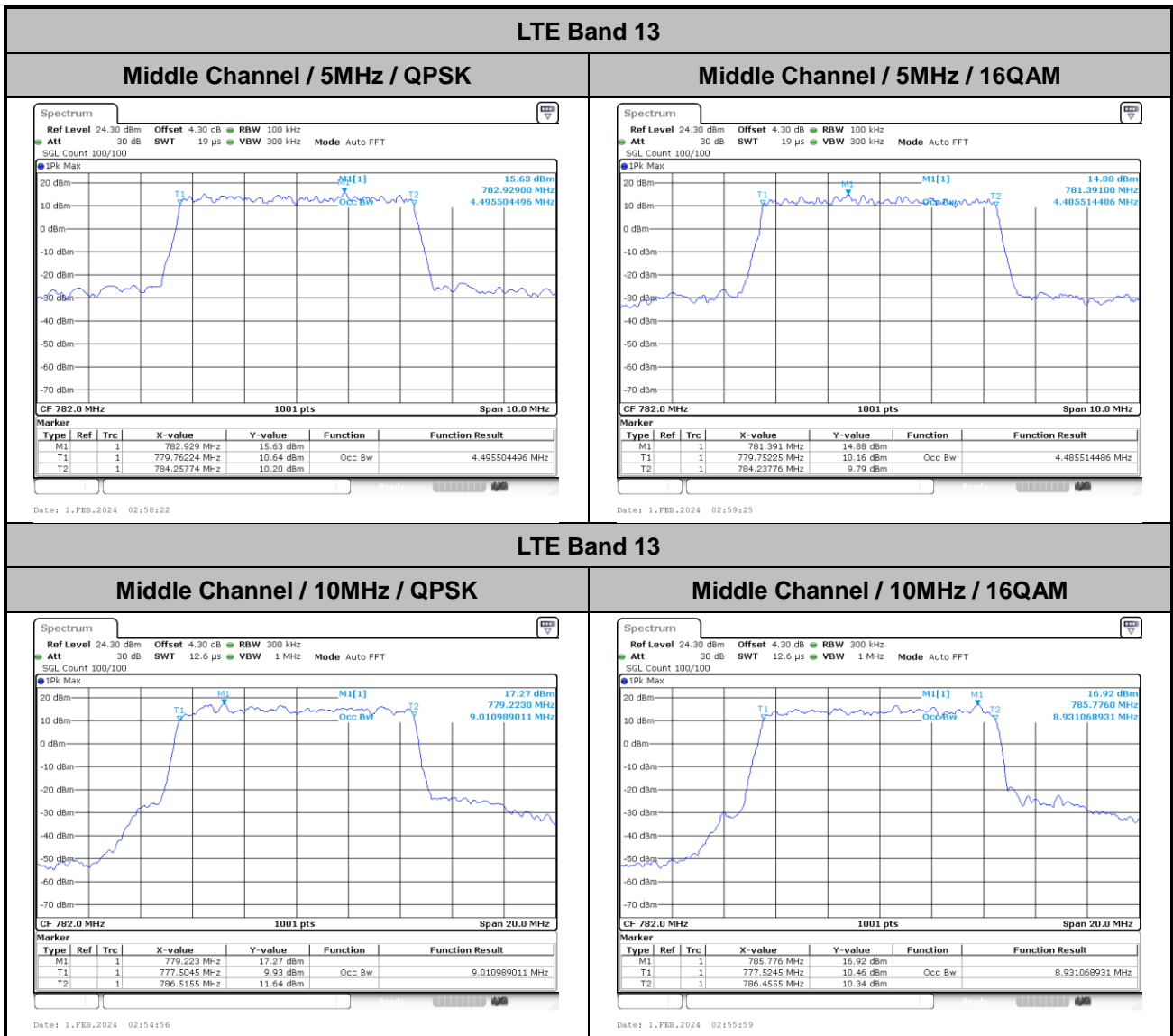
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.92	4.88
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.77	9.69





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	8.93

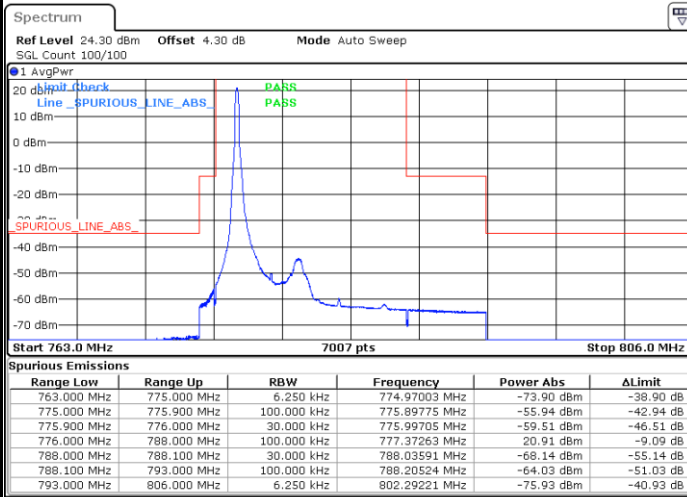




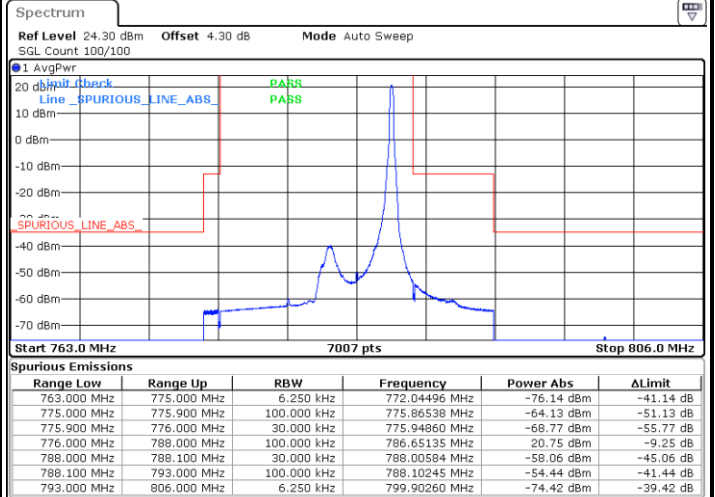
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

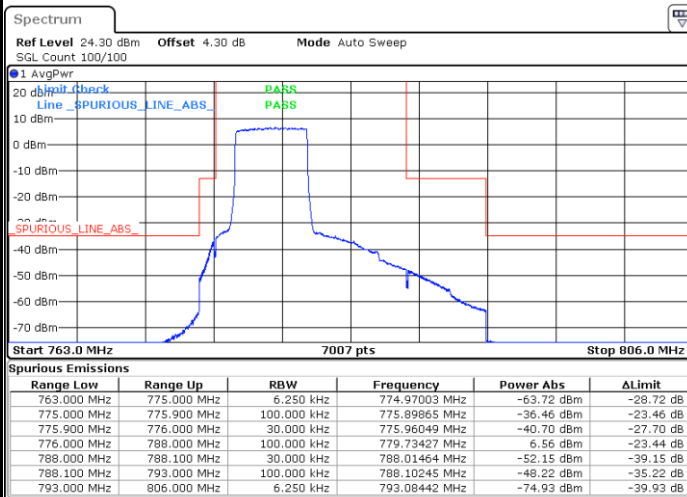
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

