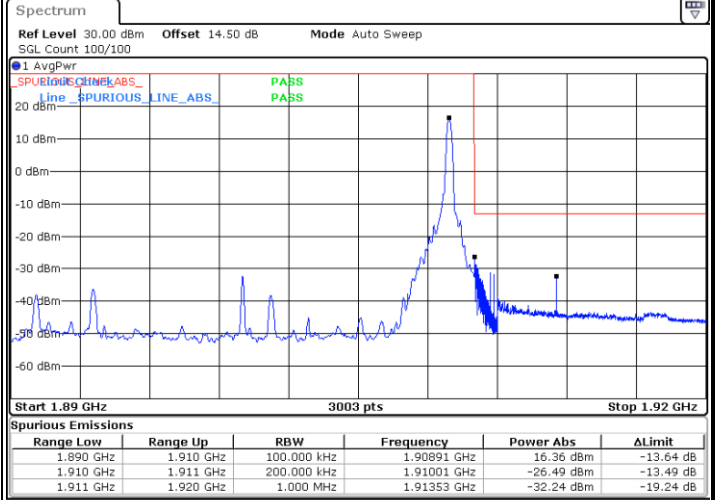
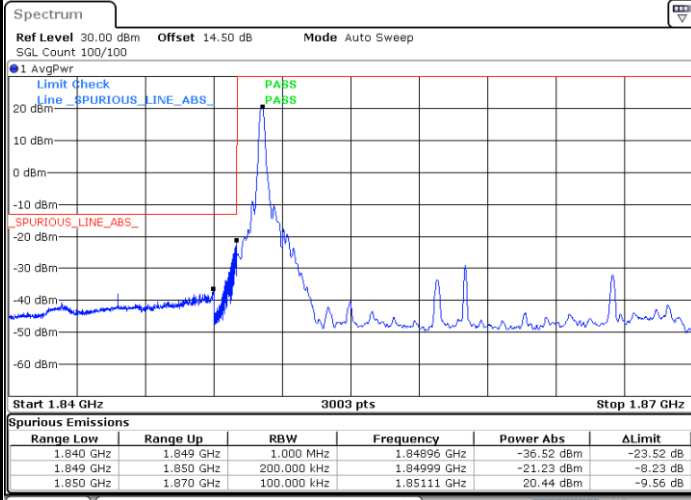




LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1RB

Highest Band Edge / 1RB

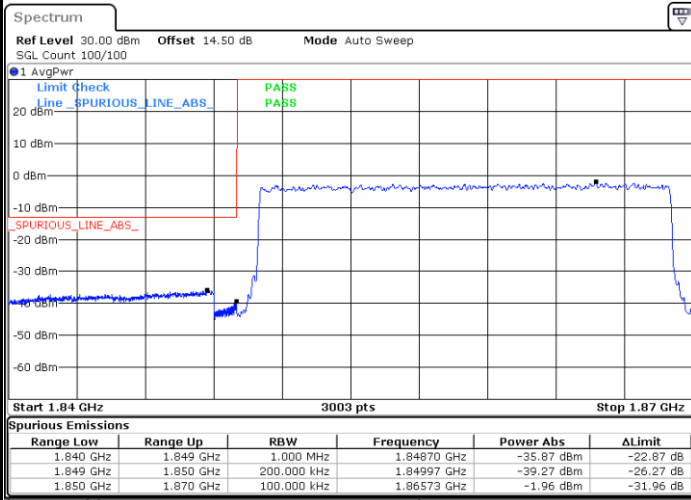


Date: 24.OCT.2023 12:43:57

Date: 24.OCT.2023 12:54:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



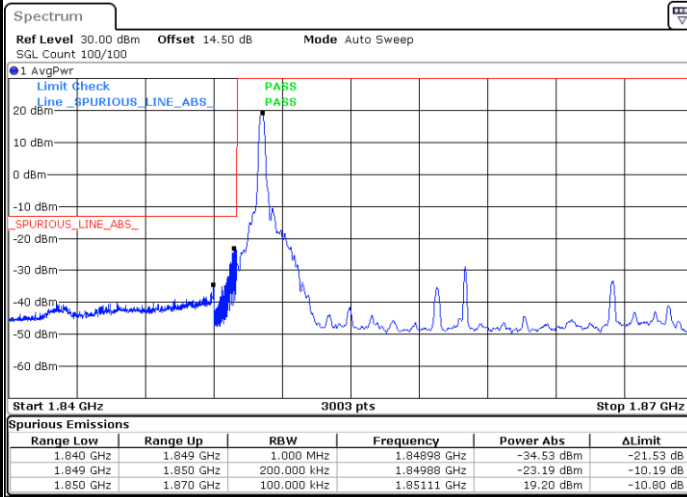
Date: 24.OCT.2023 12:46:53

Date: 24.OCT.2023 12:57:45



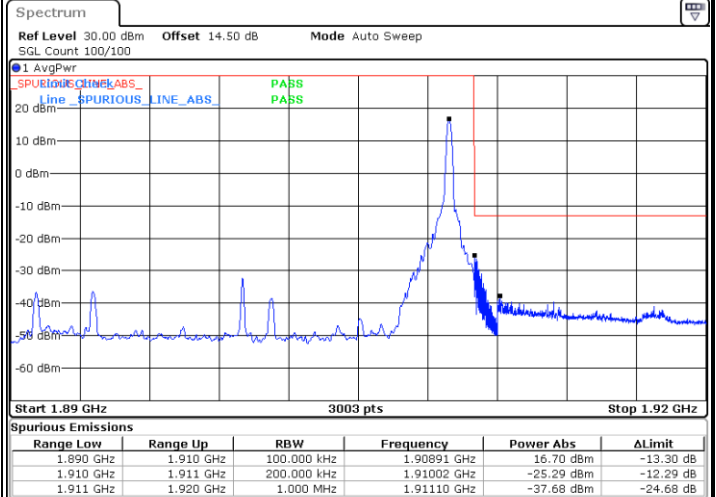
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



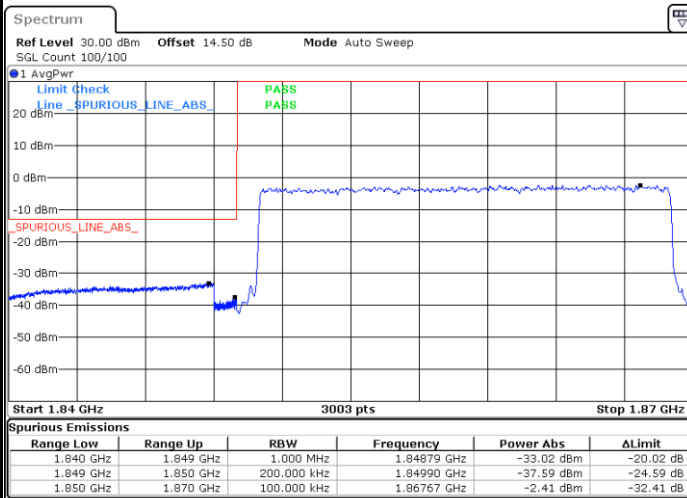
Date: 24.OCT.2023 12:44:55

Highest Band Edge / 1 RB



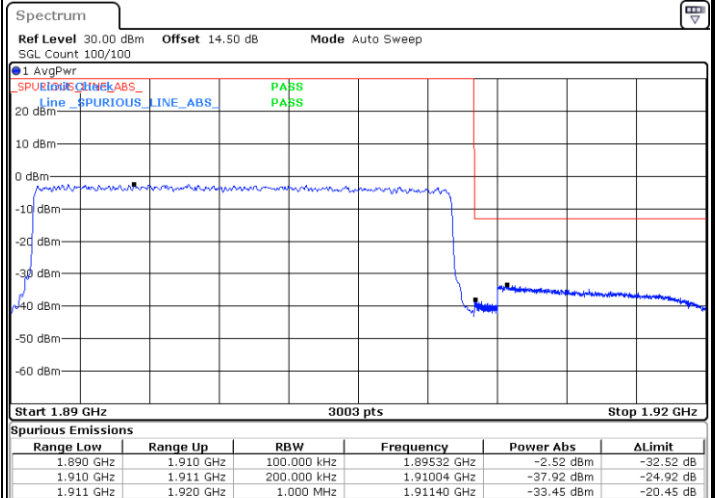
Date: 24.OCT.2023 12:55:48

Lowest Band Edge / Full RB



Date: 24.OCT.2023 12:47:51

Highest Band Edge / Full RB

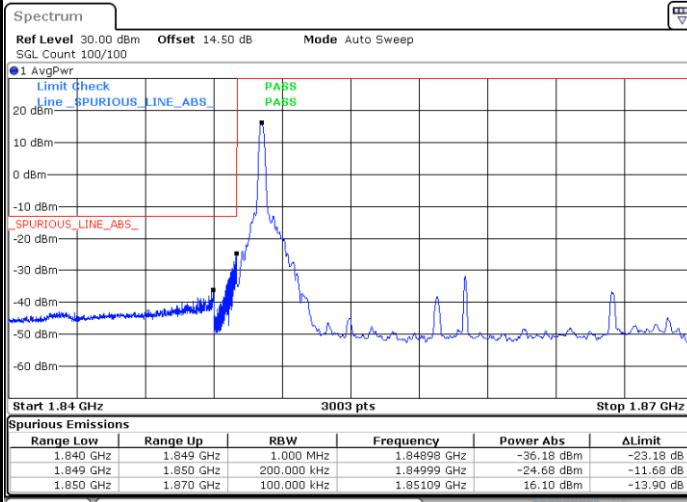


Date: 24.OCT.2023 12:58:43



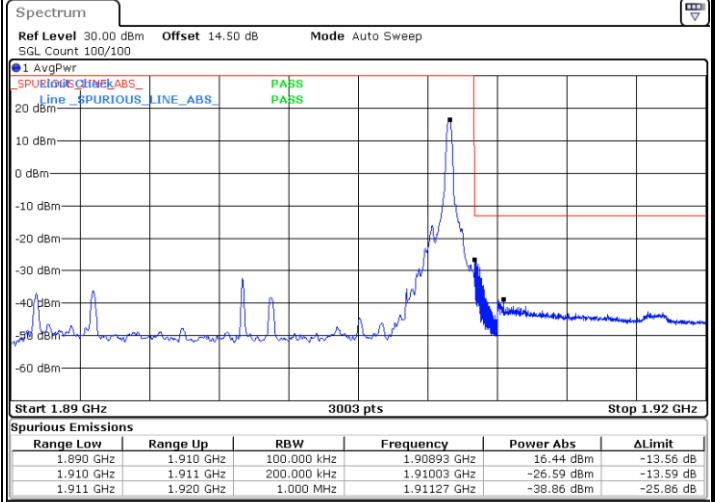
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



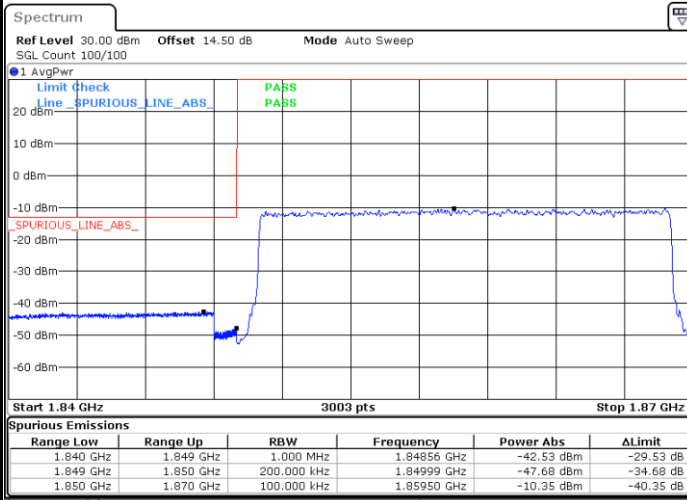
Date: 24.OCT.2023 12:45:54

Highest Band Edge / 1 RB



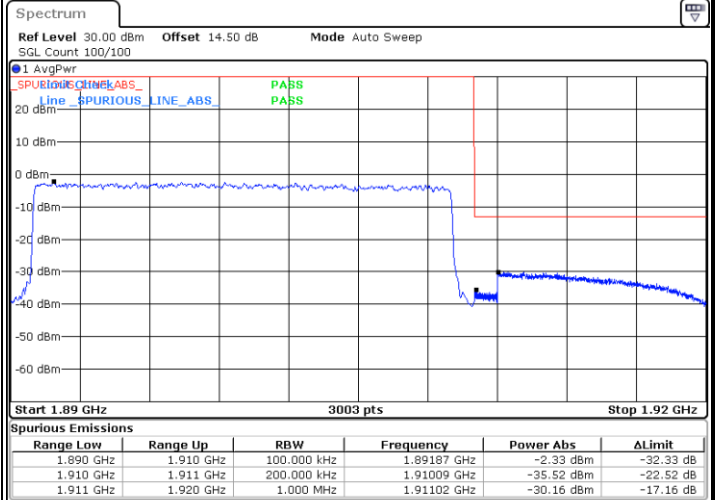
Date: 24.OCT.2023 12:56:46

Lowest Band Edge / Full RB



Date: 24.OCT.2023 12:48:50

Highest Band Edge / Full RB



Date: 24.OCT.2023 12:59:42

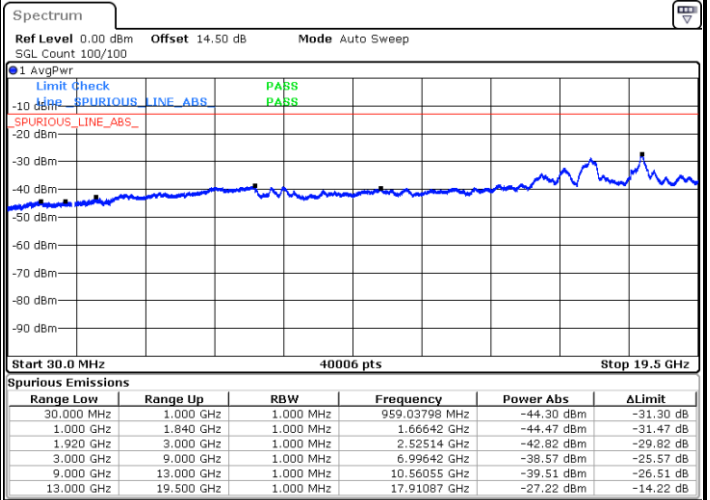
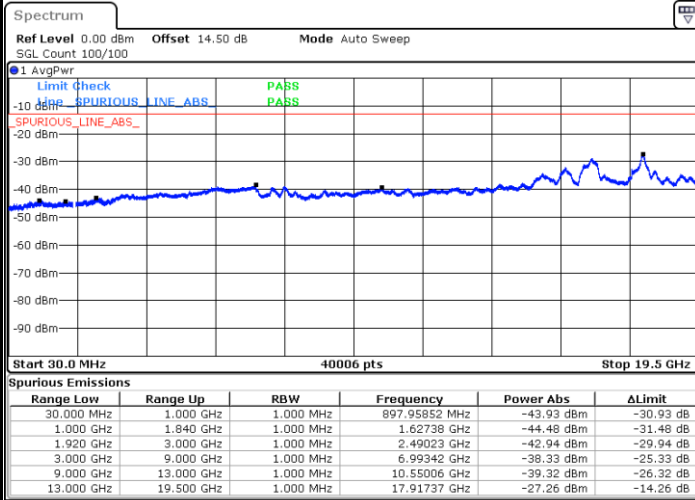


Conducted Spurious Emission

LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

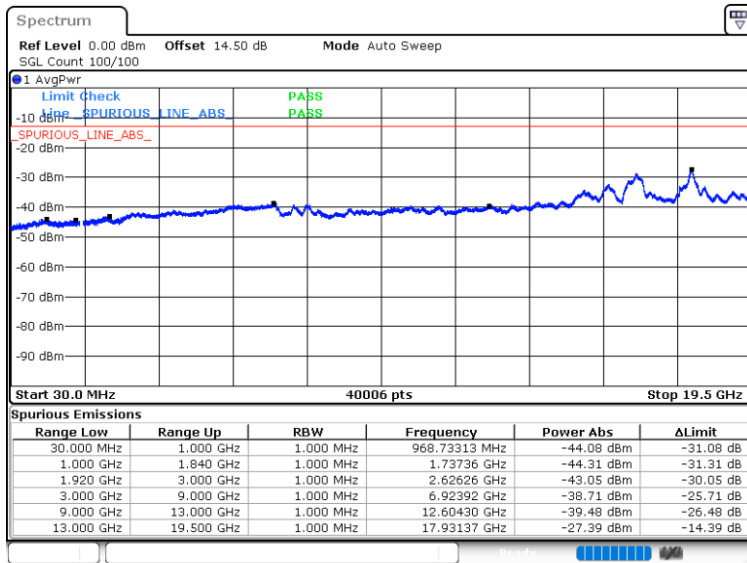
Middle Channel / QPSK



Date: 24.OCT.2023 11:13:00

Date: 24.OCT.2023 11:16:58

Highest Channel / QPSK



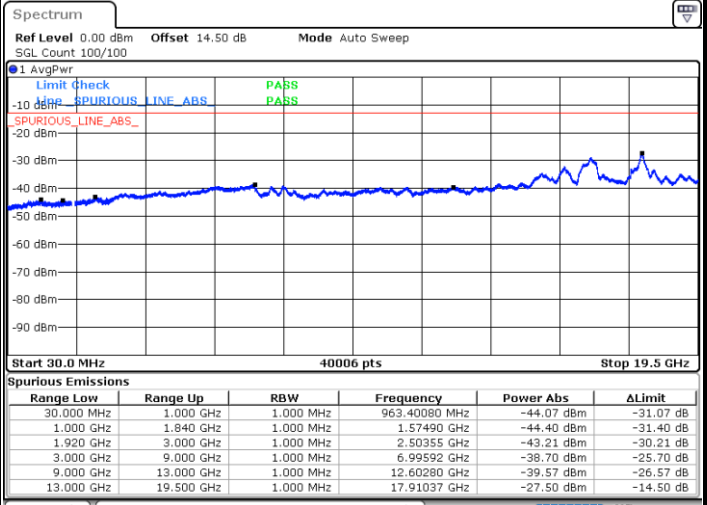
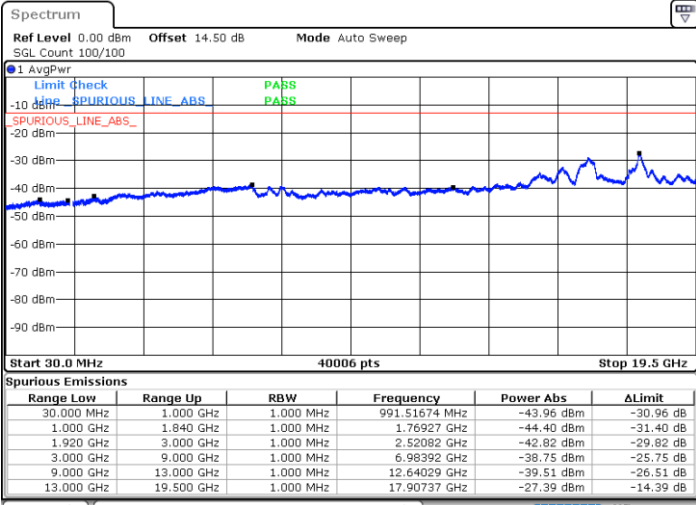
Date: 24.OCT.2023 11:22:23



LTE Band 2 / 3MHz

Lowest Channel / QPSK

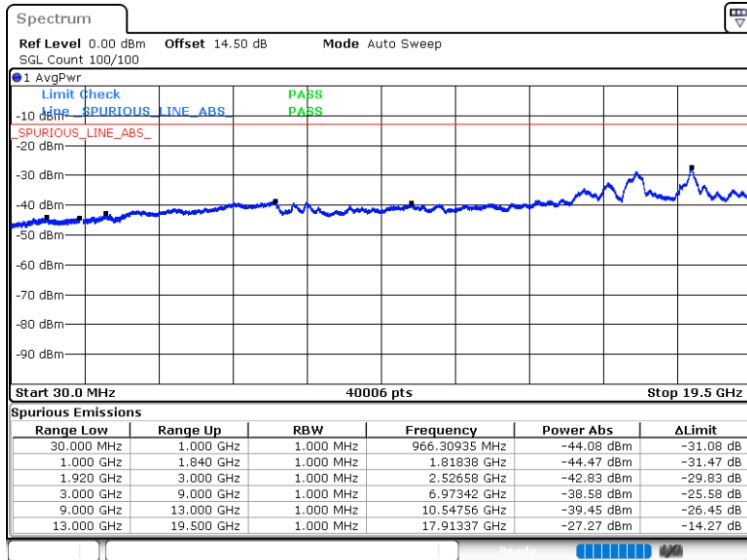
Middle Channel / QPSK



Date: 24.OCT.2023 11:34:14

Date: 24.OCT.2023 11:38:12

Highest Channel / QPSK

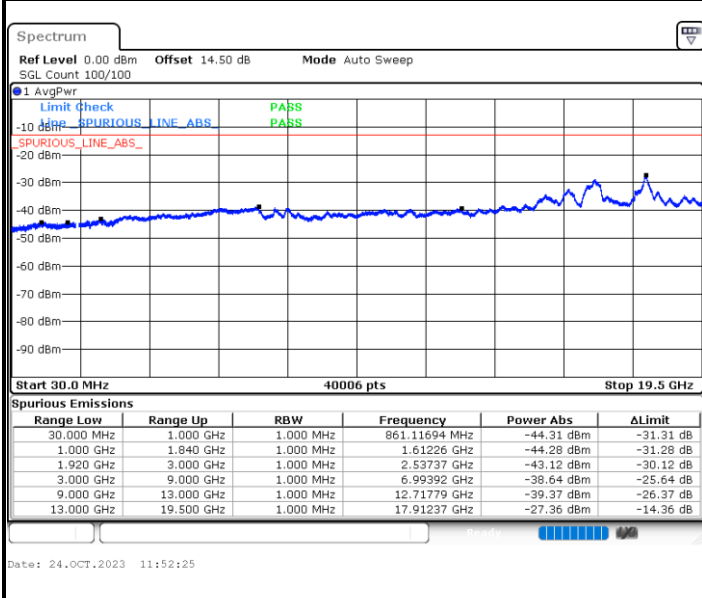


Date: 24.OCT.2023 11:46:32

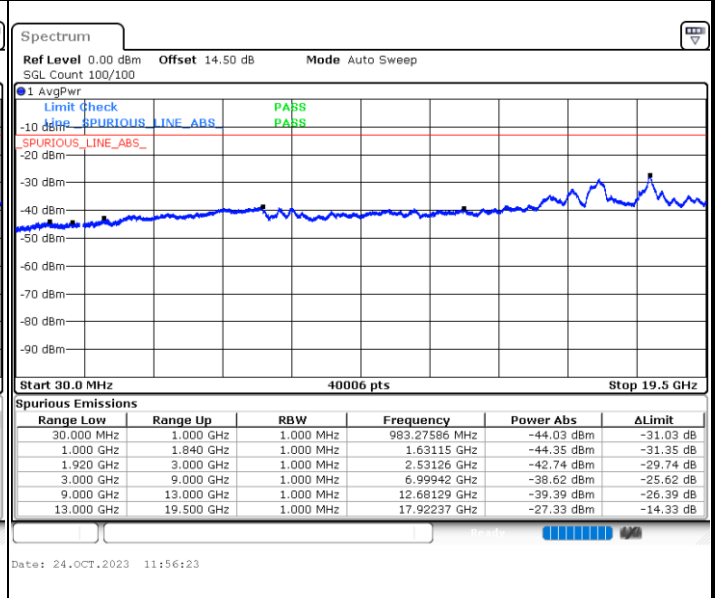


LTE Band 2 / 5MHz

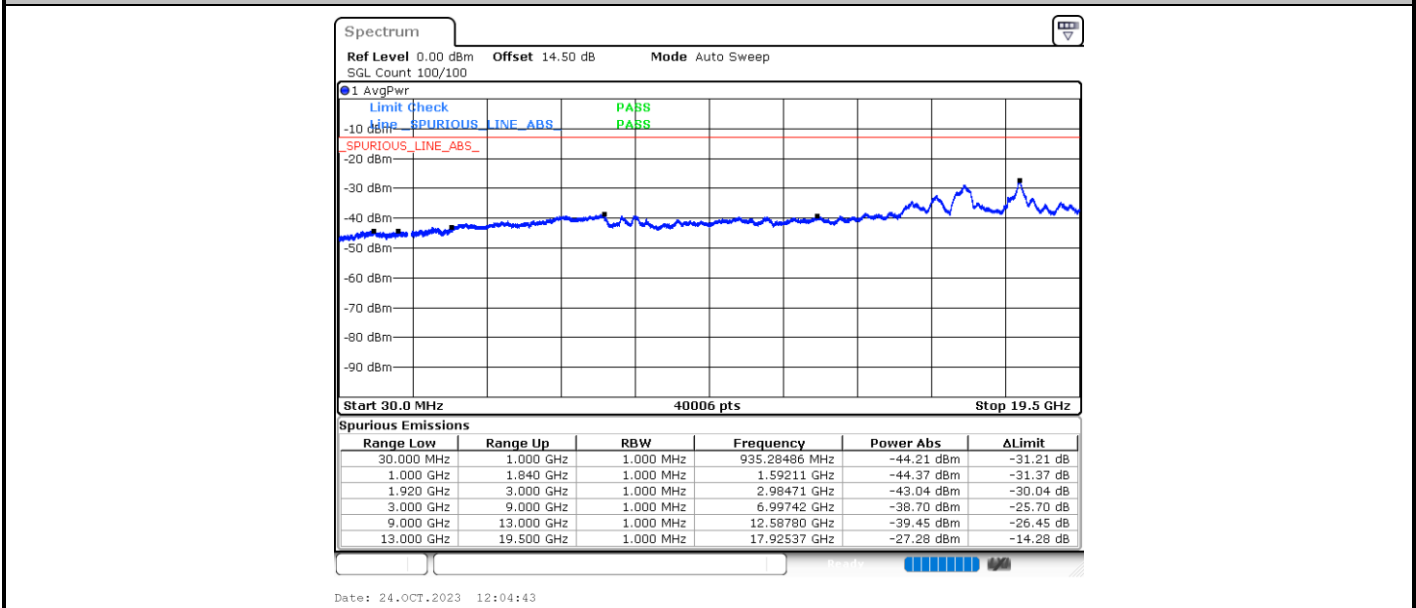
Lowest Channel / QPSK



Middle Channel / QPSK



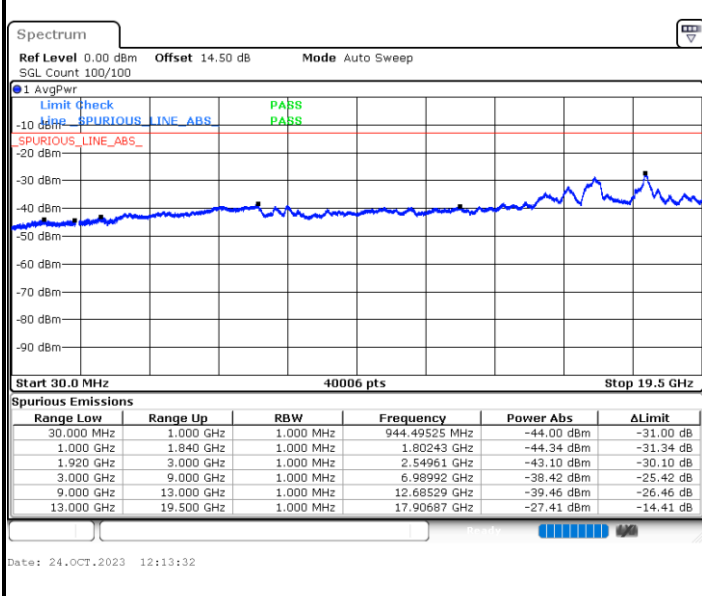
Highest Channel / QPSK



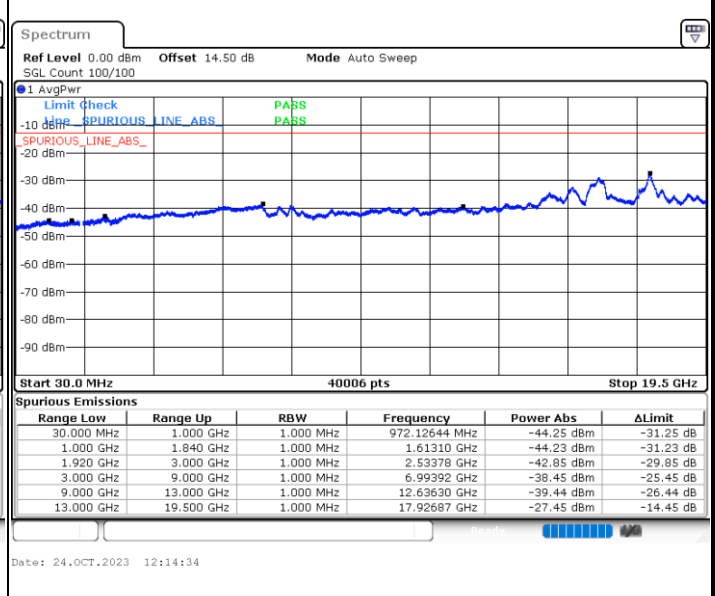


LTE Band 2 / 10MHz

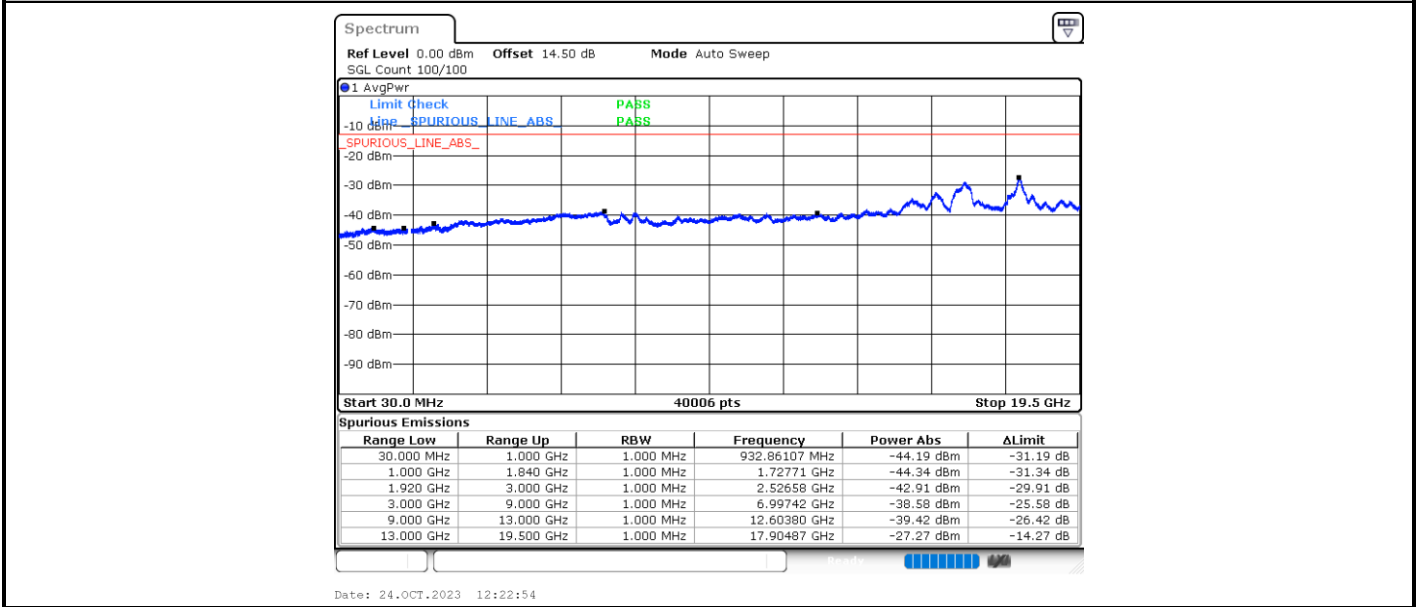
Lowest Channel / QPSK



Middle Channel / QPSK



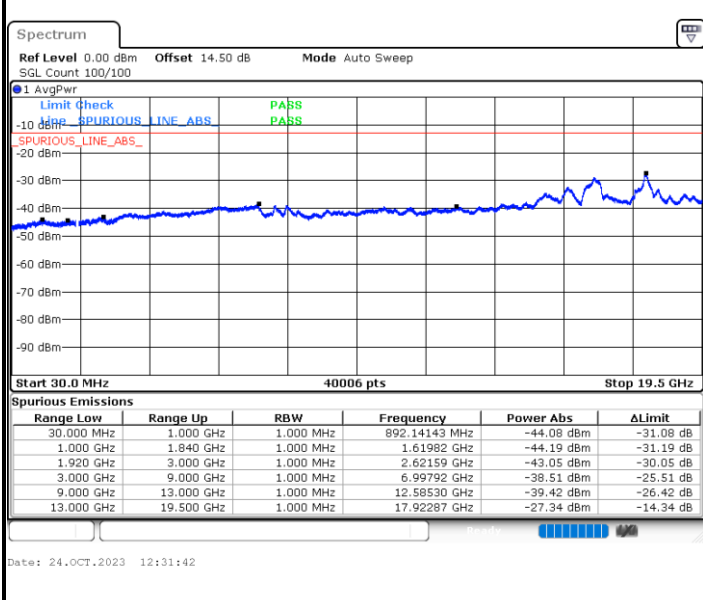
Highest Channel / QPSK



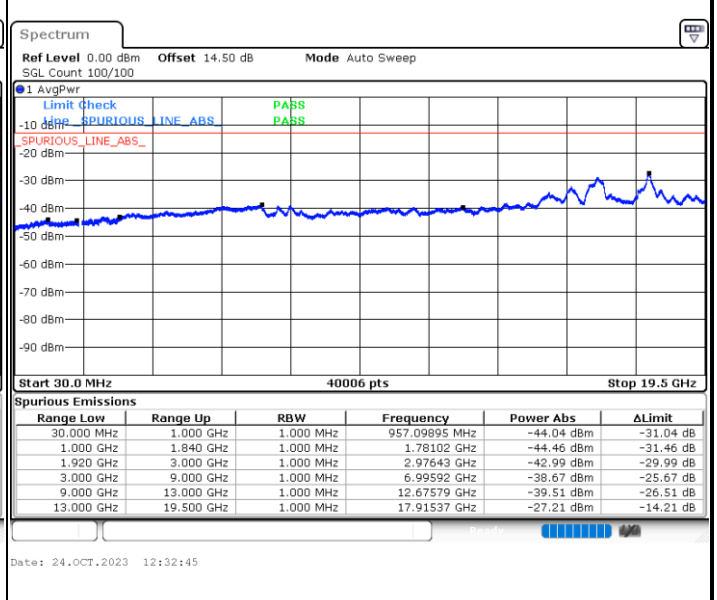


LTE Band 2 / 15MHz

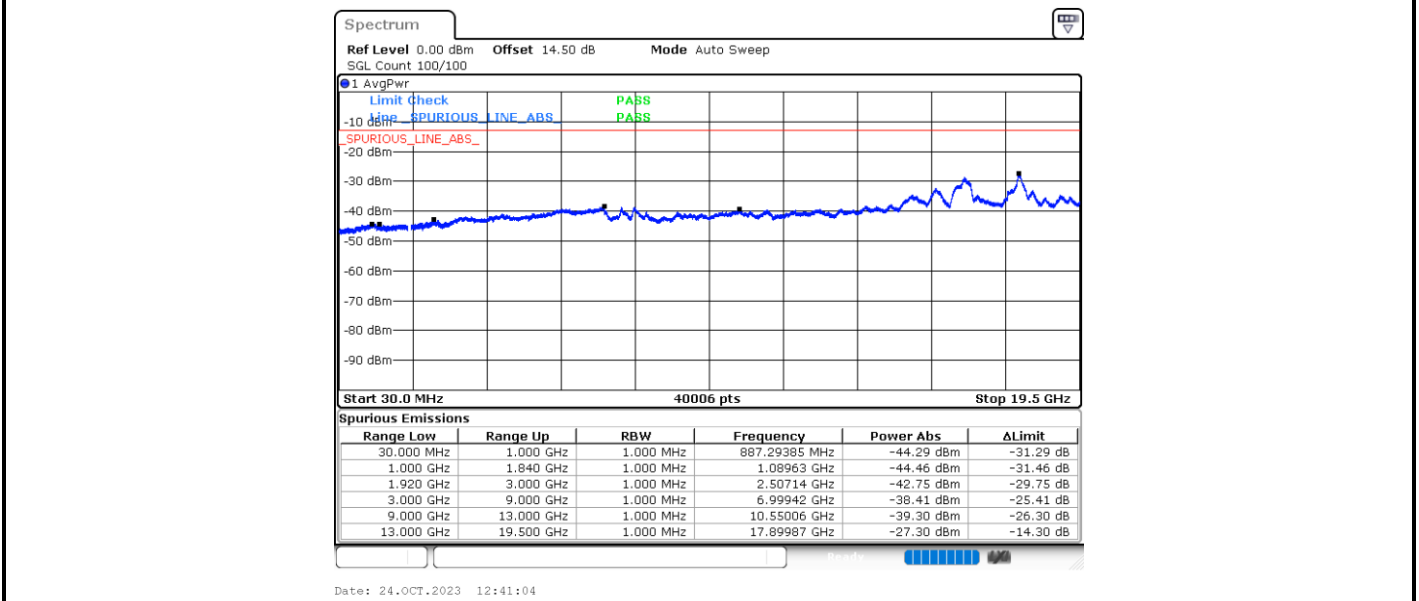
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

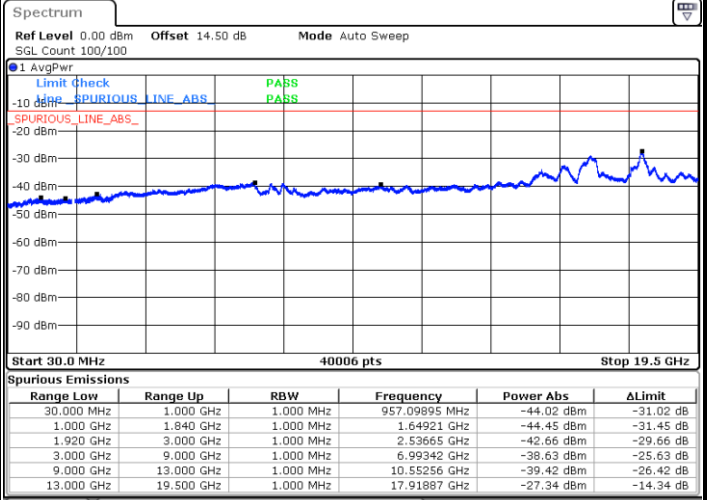
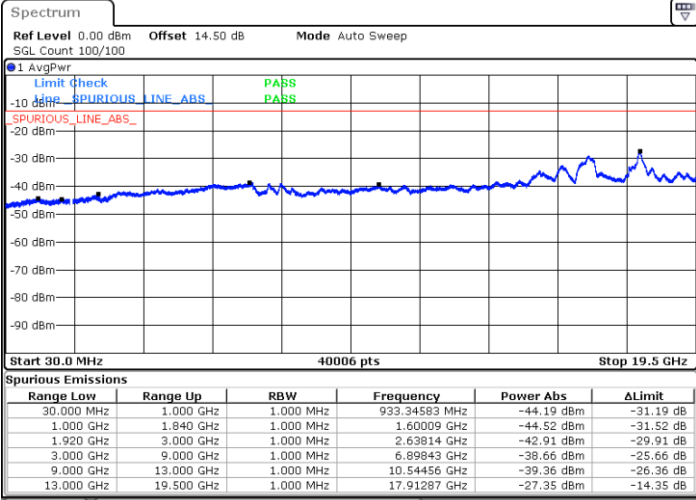




LTE Band 2 / 20MHz

Lowest Channel / QPSK

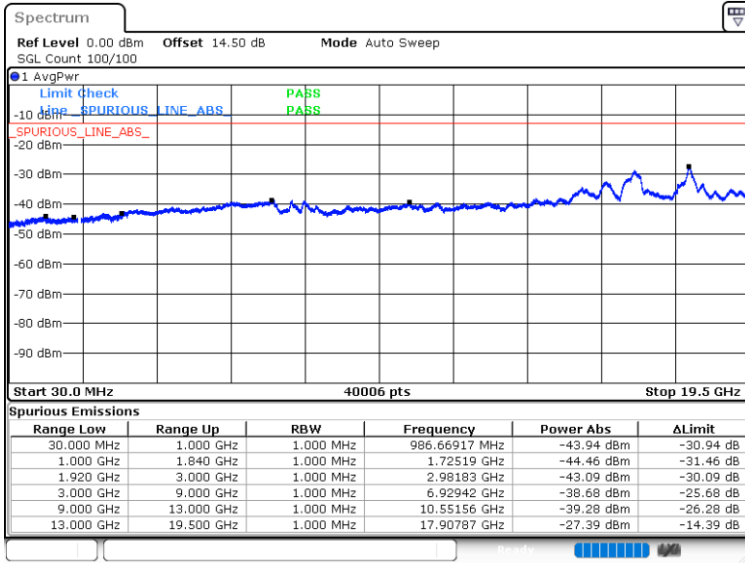
Middle Channel / QPSK



Date: 24.OCT.2023 12:49:53

Date: 24.OCT.2023 12:50:55

Highest Channel / QPSK



Date: 24.OCT.2023 13:00:45



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

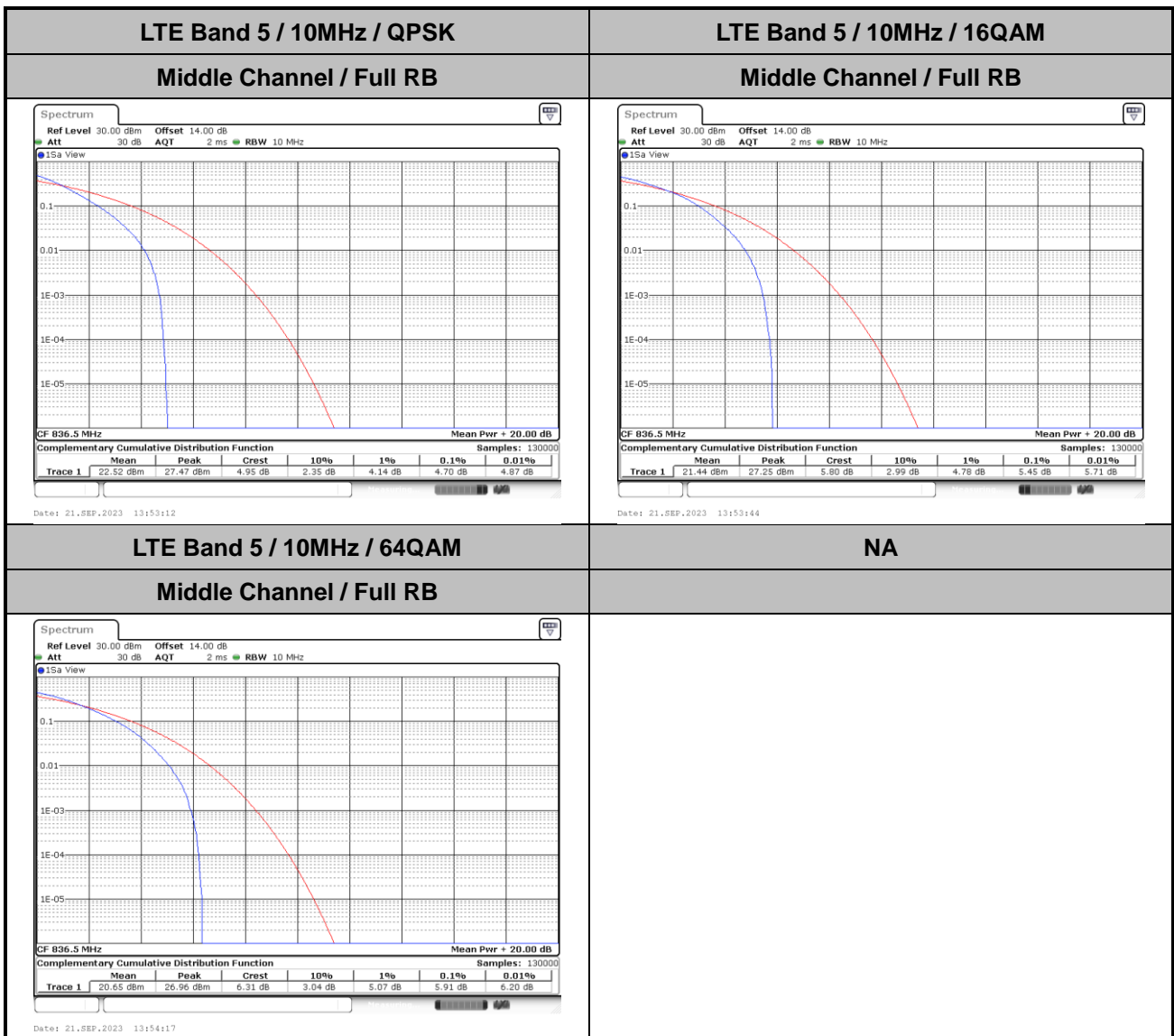
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5 (Main PA)

Peak-to-Average Ratio

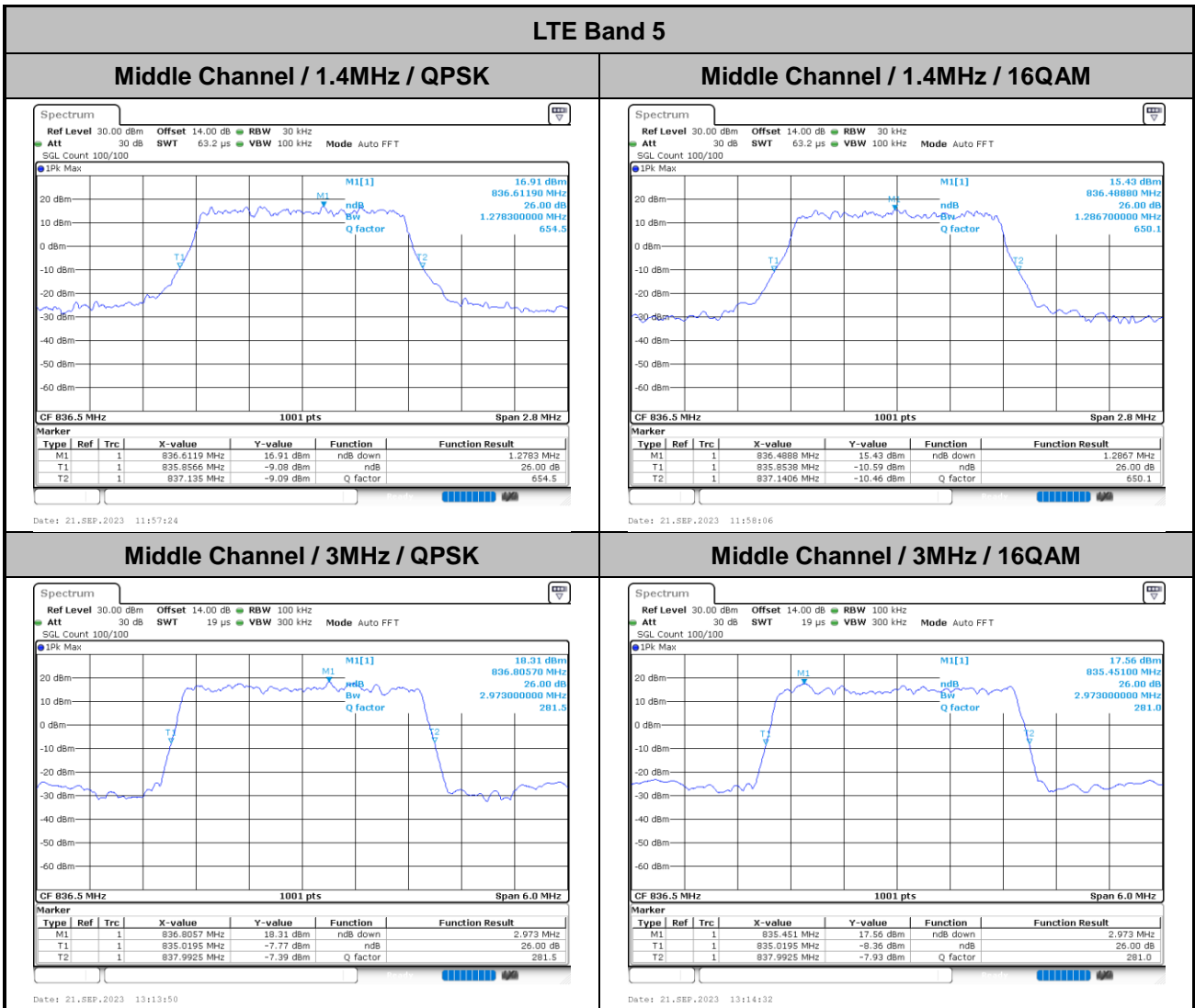
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.70	5.45	5.91	PASS





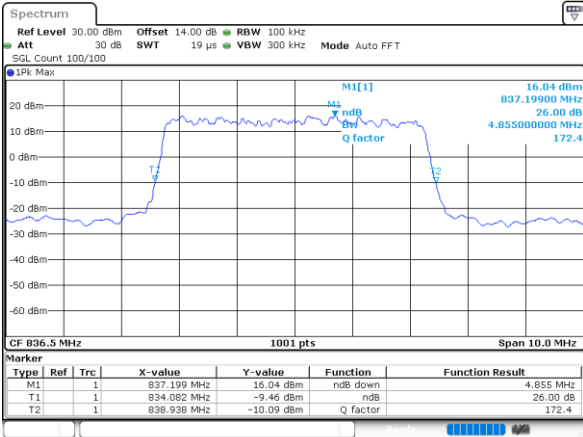
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz					
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Middle CH	1.28	1.29	2.97	2.97	4.86	4.88	9.83	9.77	-	-	-	-



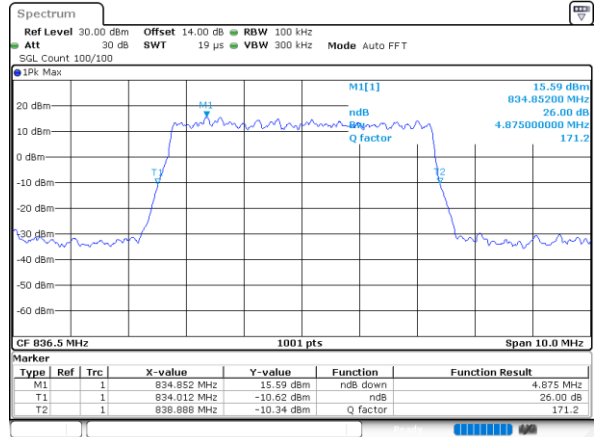


Middle Channel / 5MHz / QPSK



Date: 21.SEP.2023 13:33:03

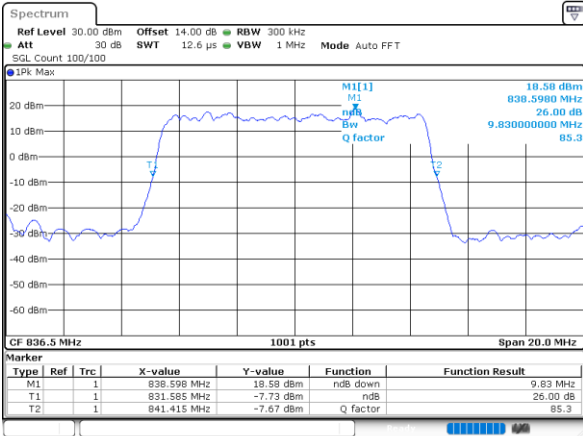
Middle Channel / 5MHz / 16QAM



Date: 21.SEP.2023 13:33:48

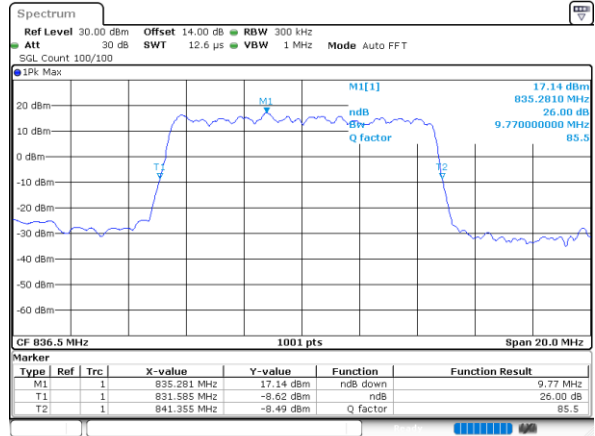
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 21.SEP.2023 13:51:55

Middle Channel / 10MHz / 16QAM

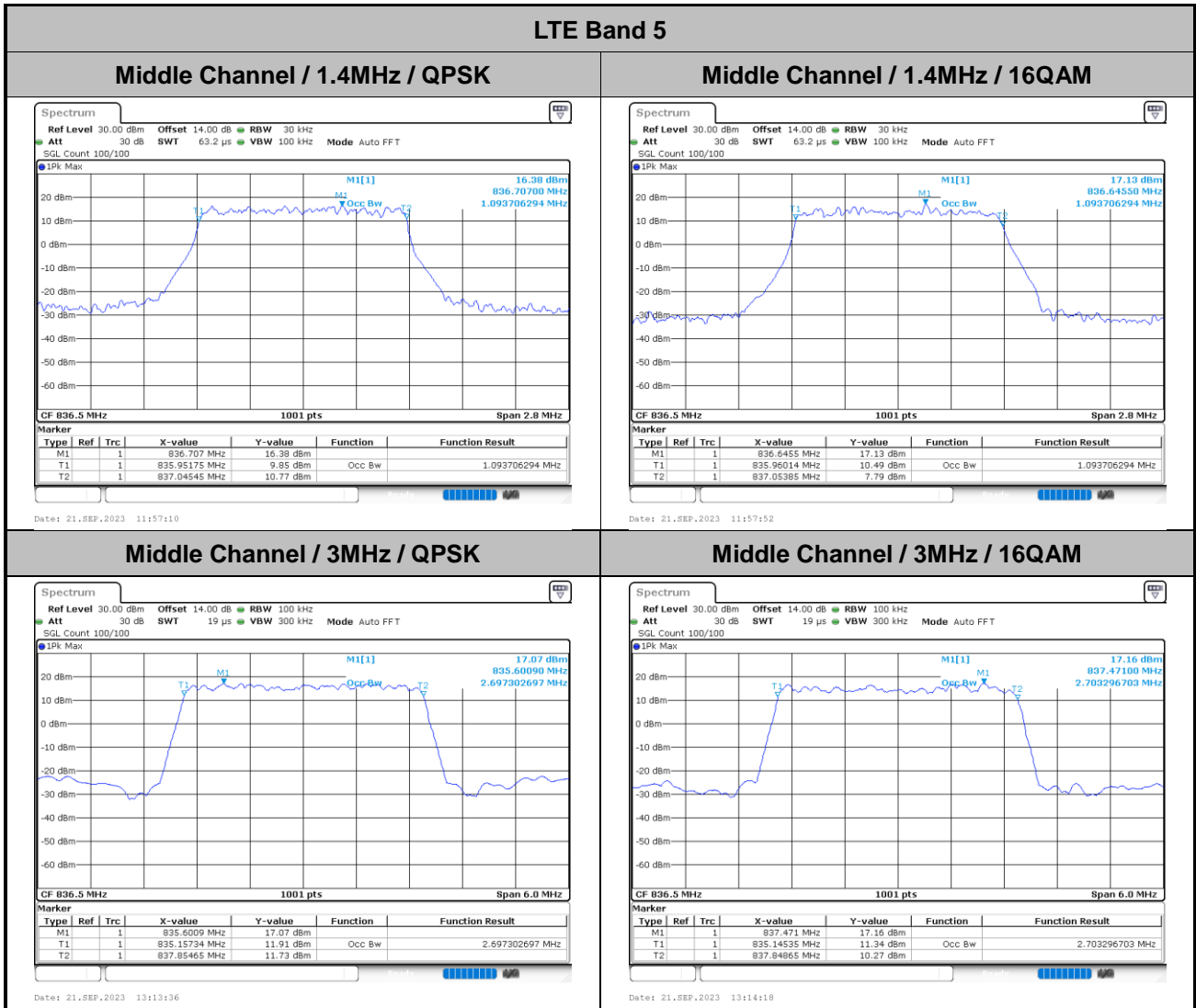


Date: 21.SEP.2023 13:52:40



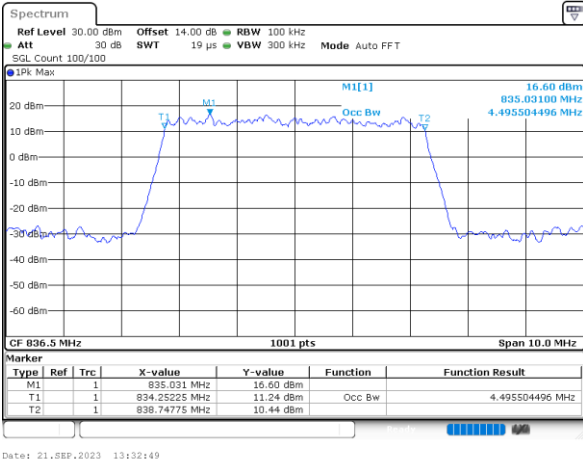
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Middle CH	1.09	1.09	2.70	2.70	4.50	4.51	9.05	9.01	-	-	-	-



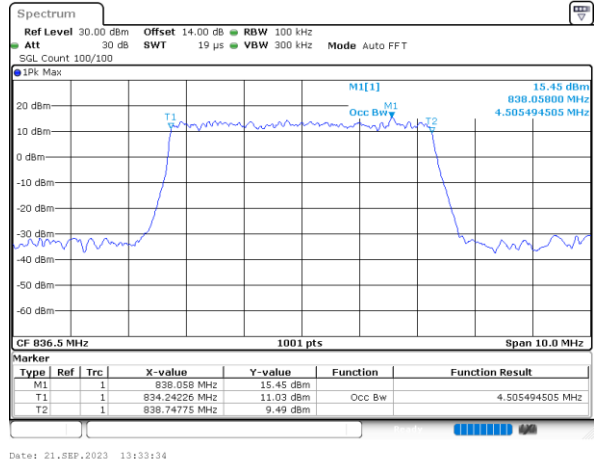


Middle Channel / 5MHz / QPSK



Date: 21.SEP.2023 13:32:49

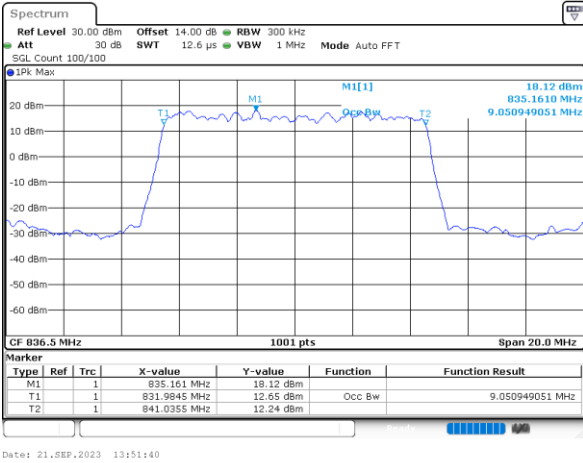
Middle Channel / 5MHz / 16QAM



Date: 21.SEP.2023 13:33:34

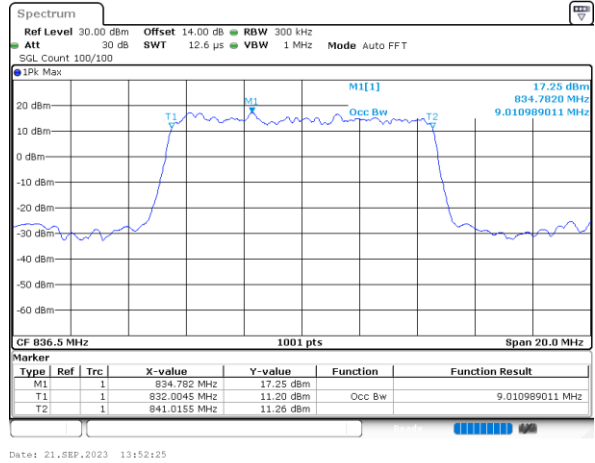
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 21.SEP.2023 13:51:40

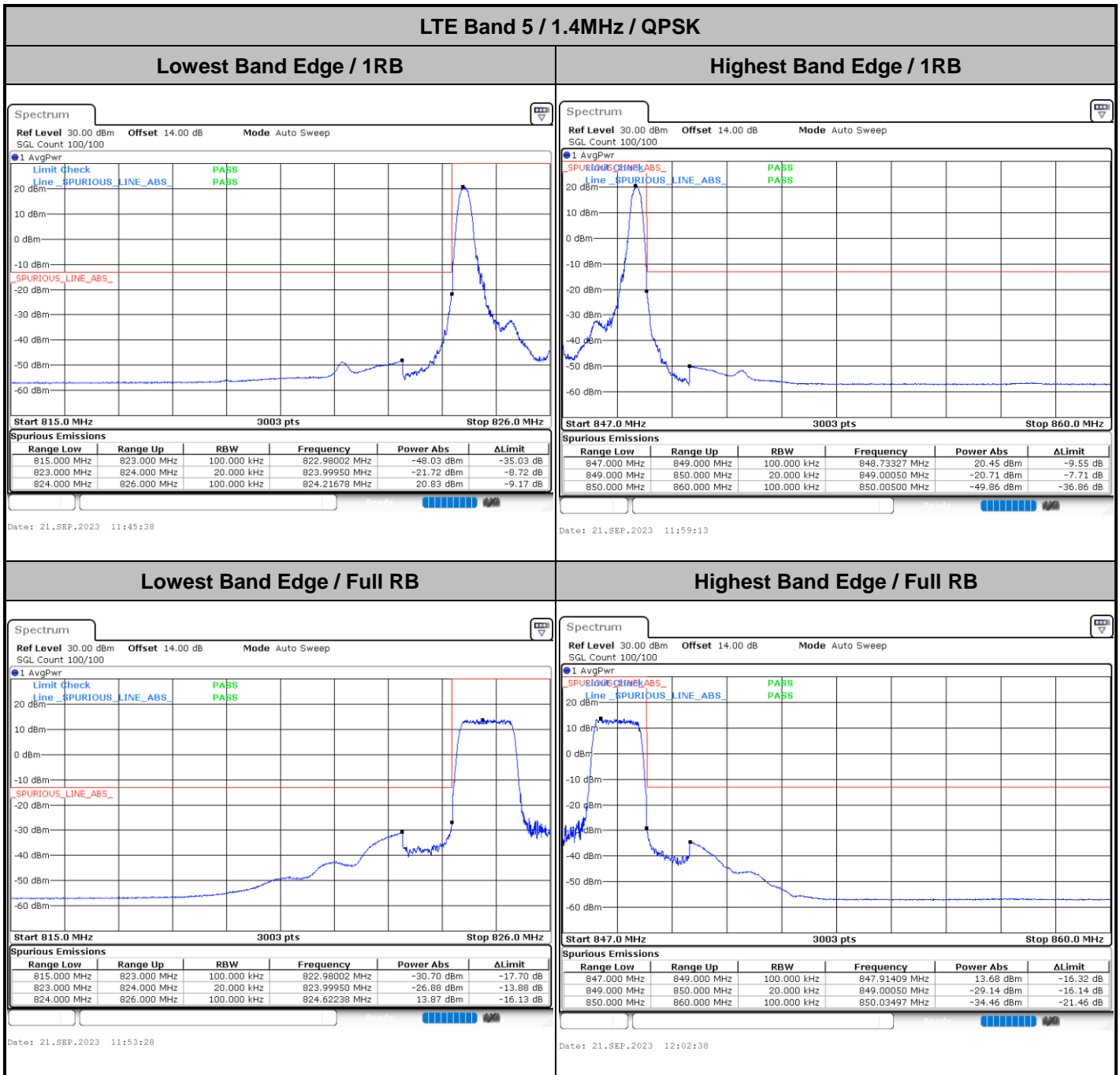
Middle Channel / 10MHz / 16QAM



Date: 21.SEP.2023 13:52:25



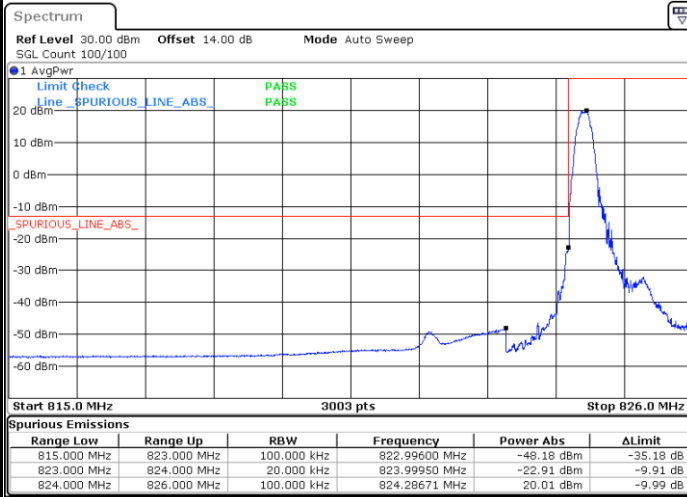
Conducted Band Edge





LTE Band 5 / 1.4MHz / 16QAM

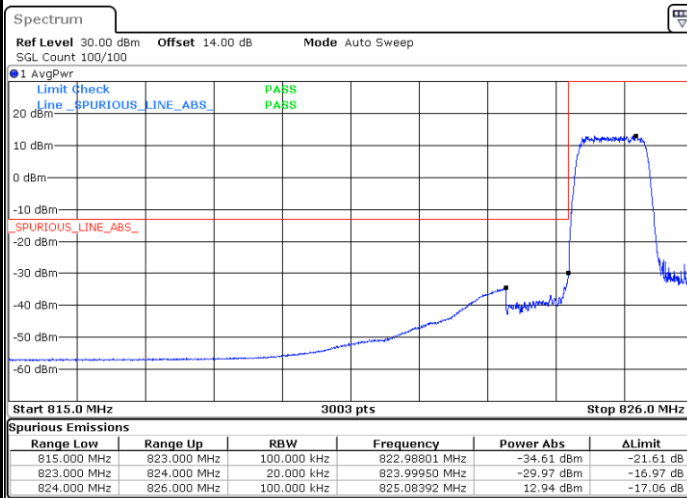
Lowest Band Edge / 1 RB



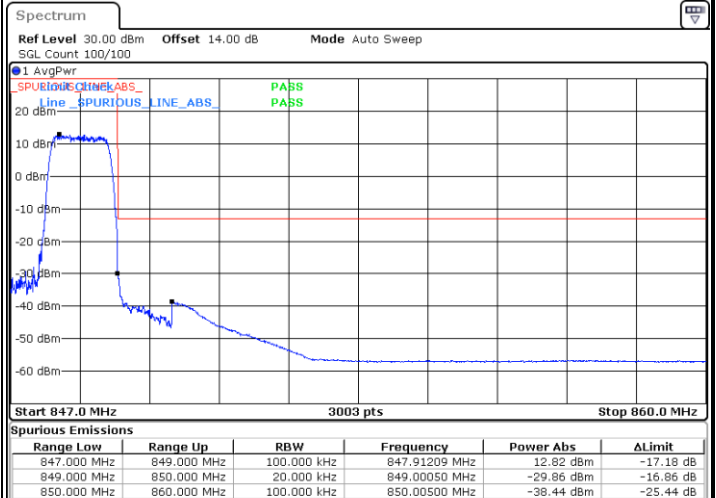
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



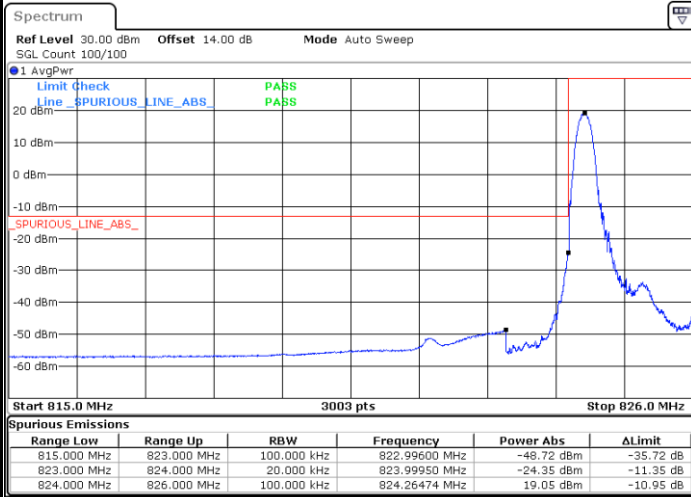
Highest Band Edge / Full RB





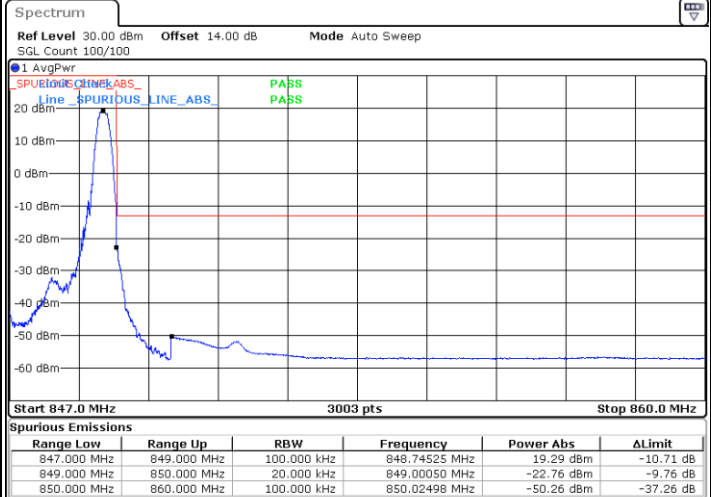
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



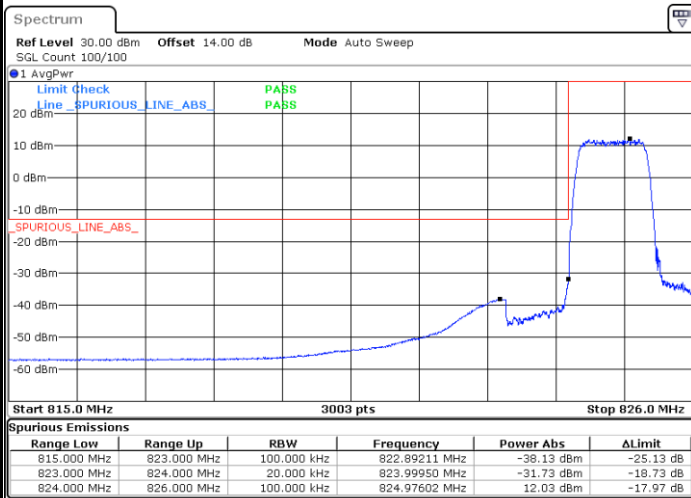
Date: 21.SEP.2023 11:49:40

Highest Band Edge / 1 RB



Date: 21.SEP.2023 12:01:30

Lowest Band Edge / Full RB



Date: 21.SEP.2023 11:55:44

Highest Band Edge / Full RB

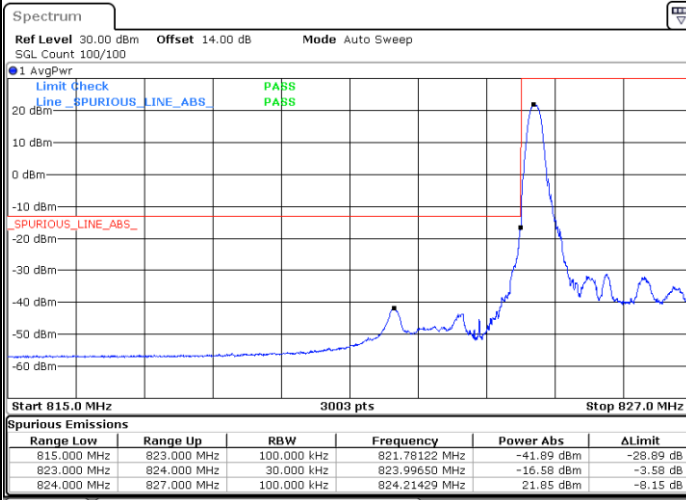


Date: 21.SEP.2023 12:04:55



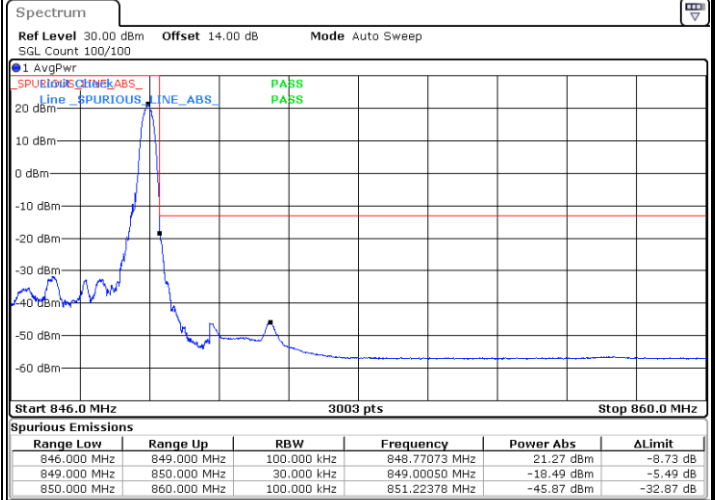
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



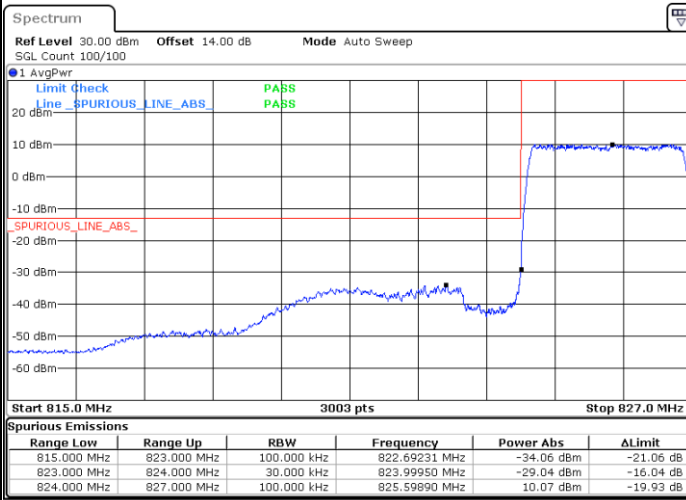
Date: 21.SEP.2023 13:05:30

Highest Band Edge / 1RB



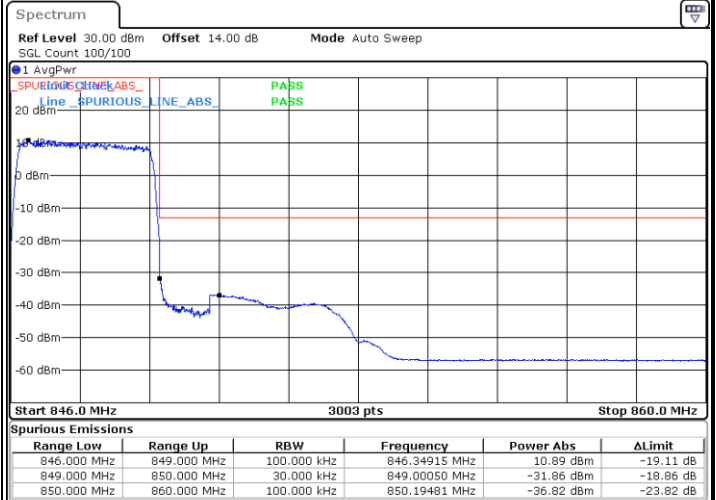
Date: 21.SEP.2023 13:15:39

Lowest Band Edge / Full RB



Date: 21.SEP.2023 13:08:55

Highest Band Edge / Full RB

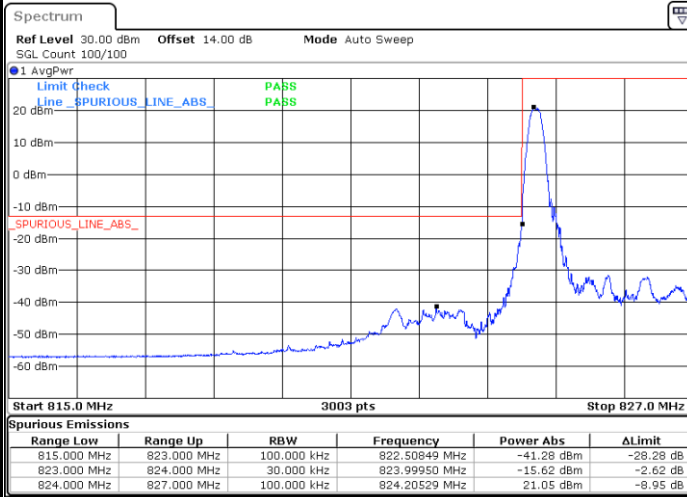


Date: 21.SEP.2023 13:19:04



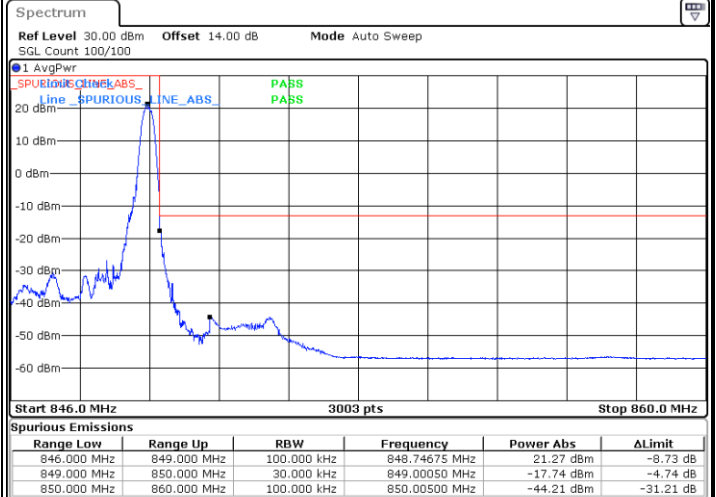
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



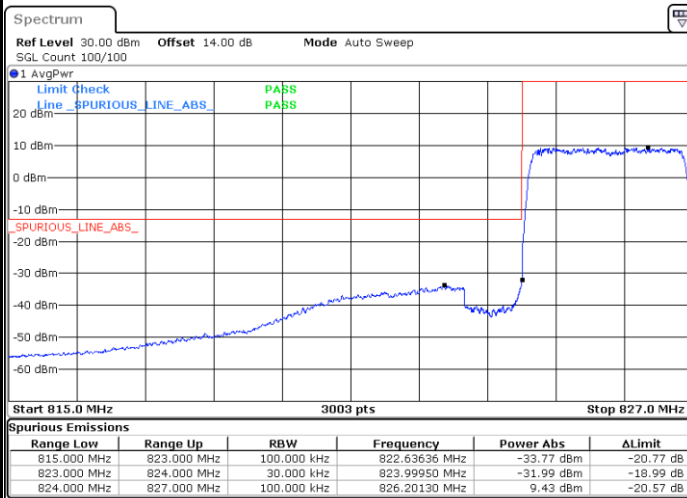
Date: 21.SEP.2023 13:06:38

Highest Band Edge / 1 RB



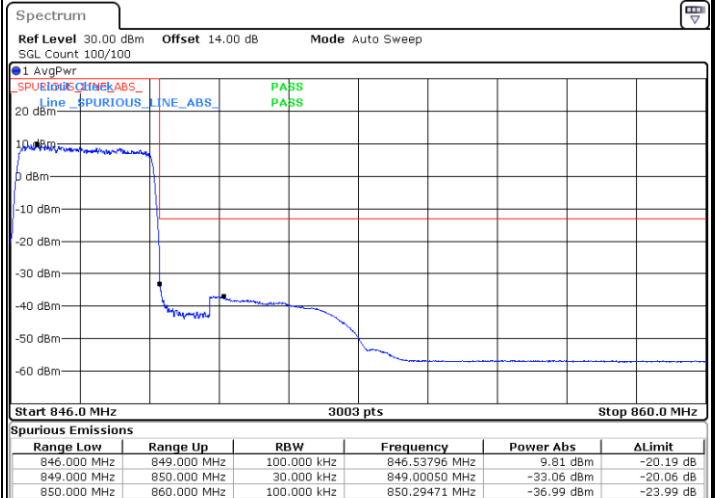
Date: 21.SEP.2023 13:16:47

Lowest Band Edge / Full RB



Date: 21.SEP.2023 13:10:04

Highest Band Edge / Full RB

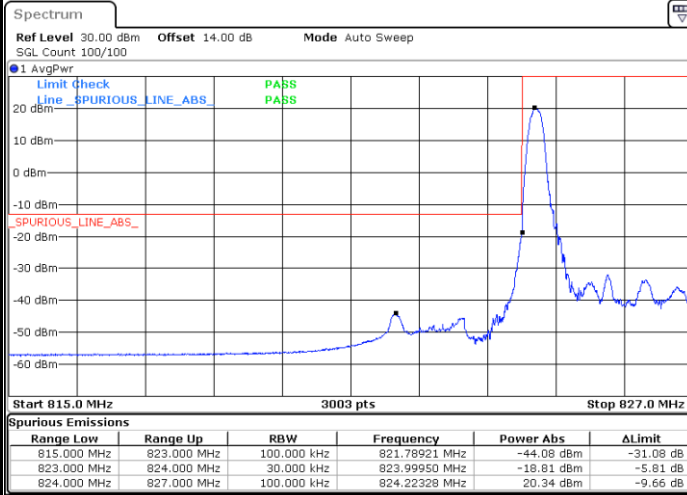


Date: 21.SEP.2023 13:20:13



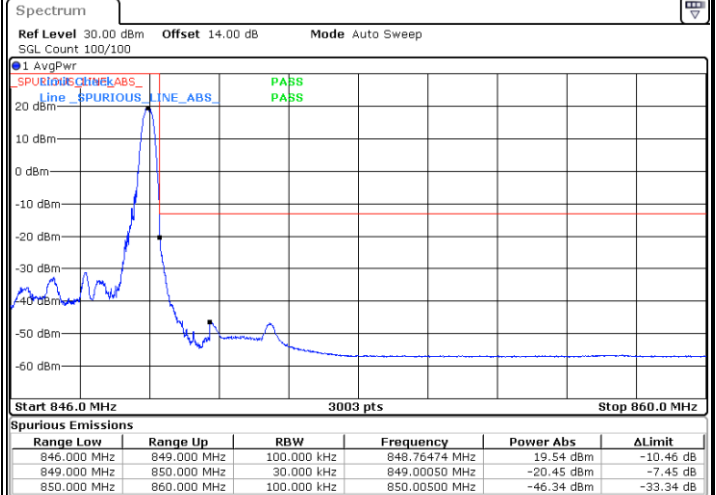
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



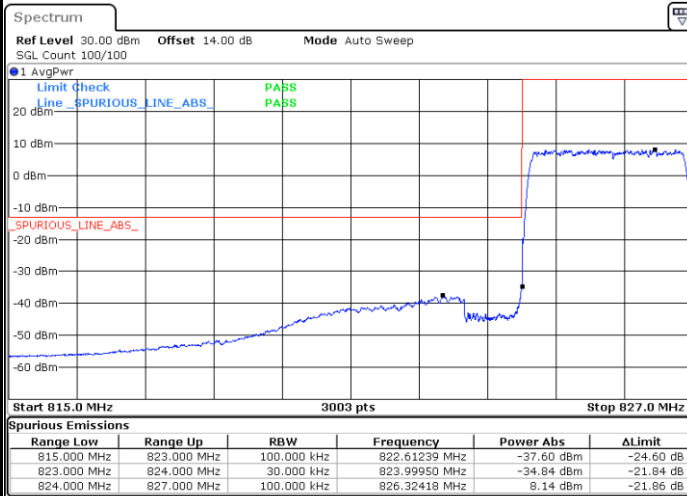
Date: 21.SEP.2023 13:07:47

Highest Band Edge / 1 RB



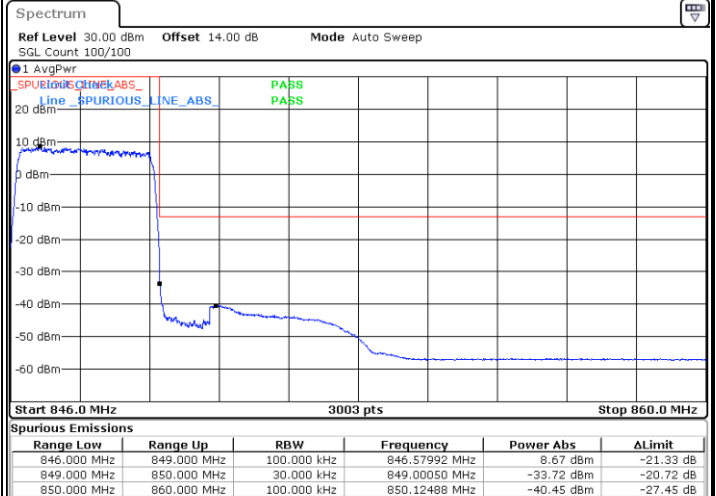
Date: 21.SEP.2023 13:17:56

Lowest Band Edge / Full RB



Date: 21.SEP.2023 13:11:12

Highest Band Edge / Full RB

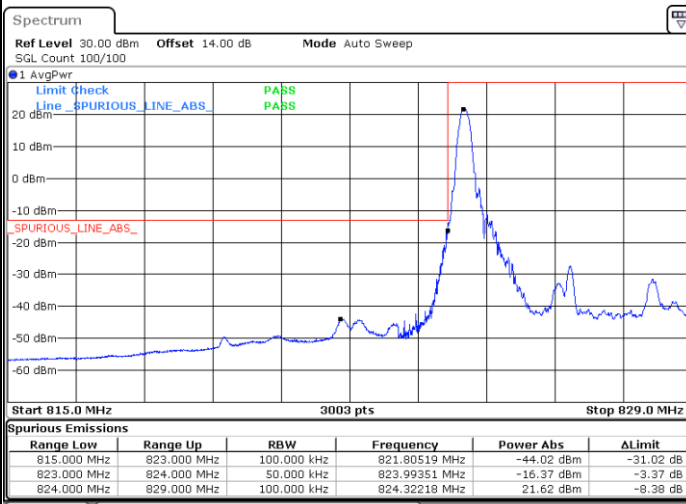


Date: 21.SEP.2023 13:21:21



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1RB



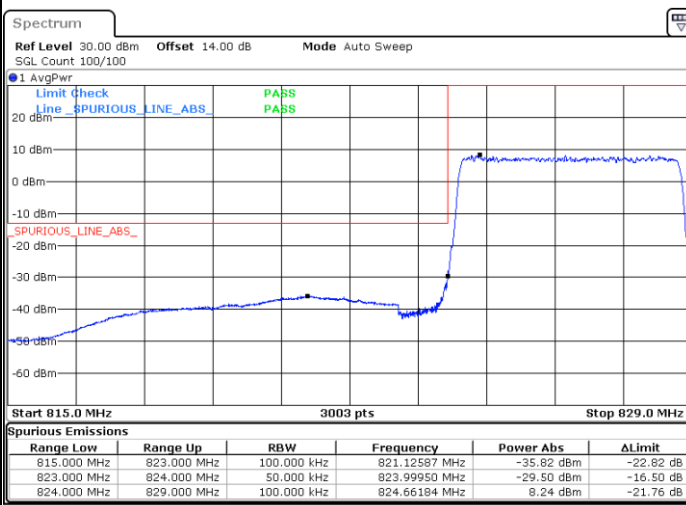
Date: 21.SEP.2023 13:24:17

Highest Band Edge / 1RB



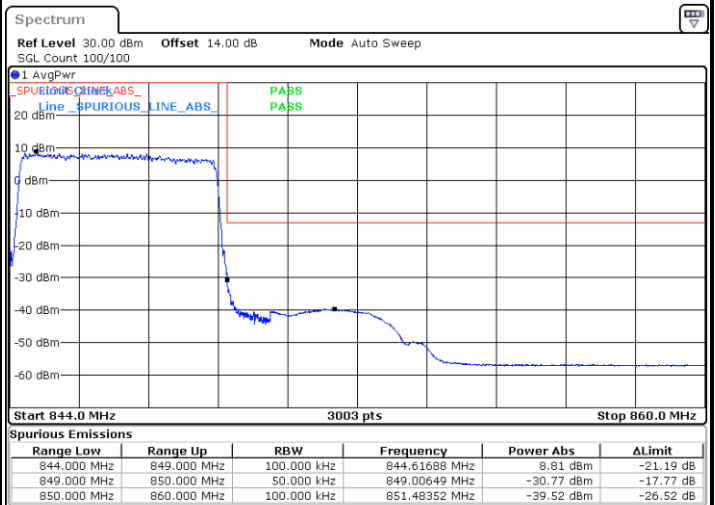
Date: 21.SEP.2023 14:16:53

Lowest Band Edge / Full RB



Date: 21.SEP.2023 13:27:53

Highest Band Edge / Full RB

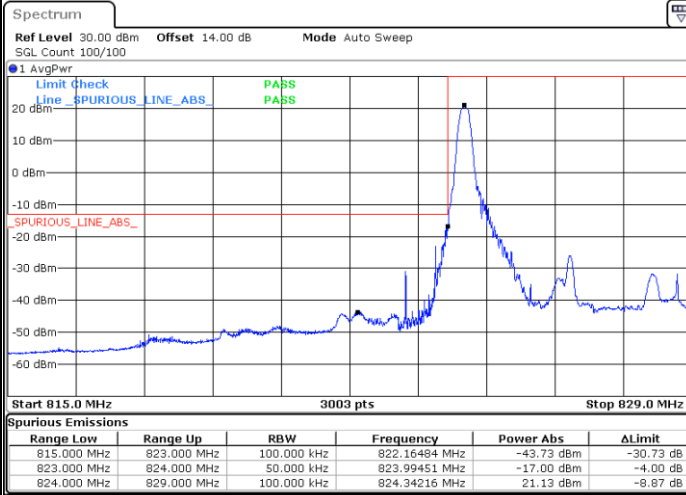


Date: 21.SEP.2023 14:20:27



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



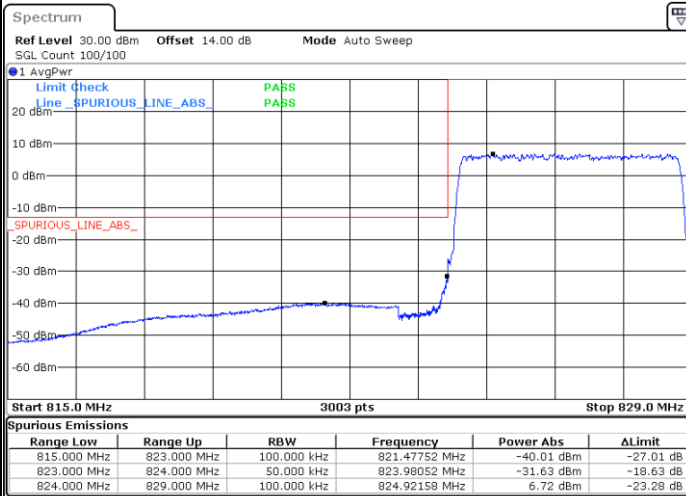
Date: 21.SEP.2023 13:25:31

Highest Band Edge / 1 RB



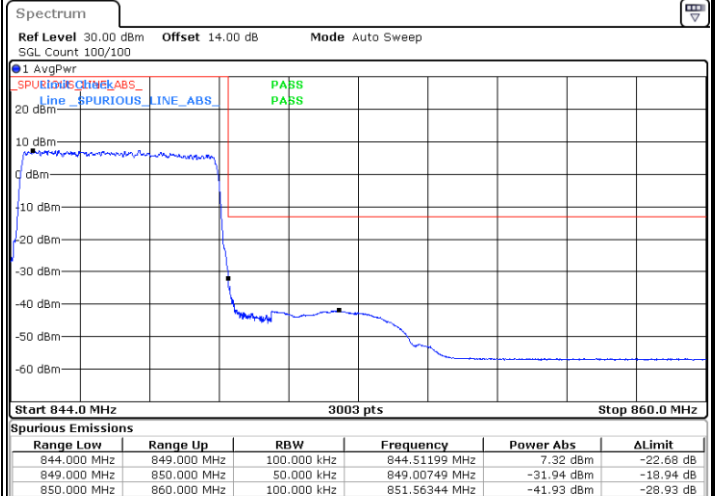
Date: 21.SEP.2023 14:18:04

Lowest Band Edge / Full RB



Date: 21.SEP.2023 13:29:05

Highest Band Edge / Full RB

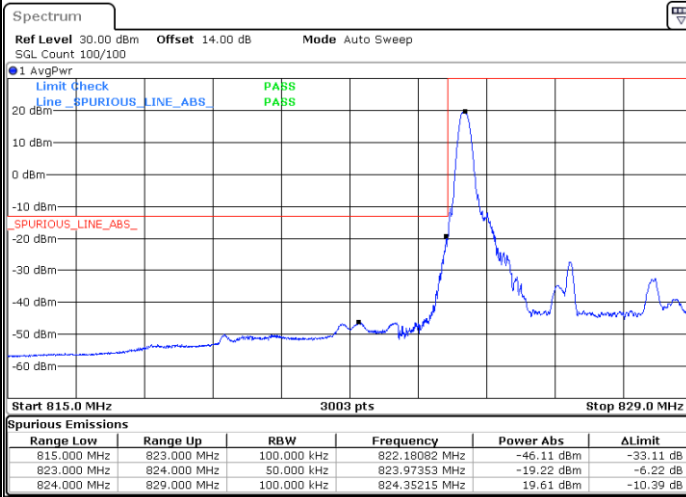


Date: 21.SEP.2023 14:21:38



LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



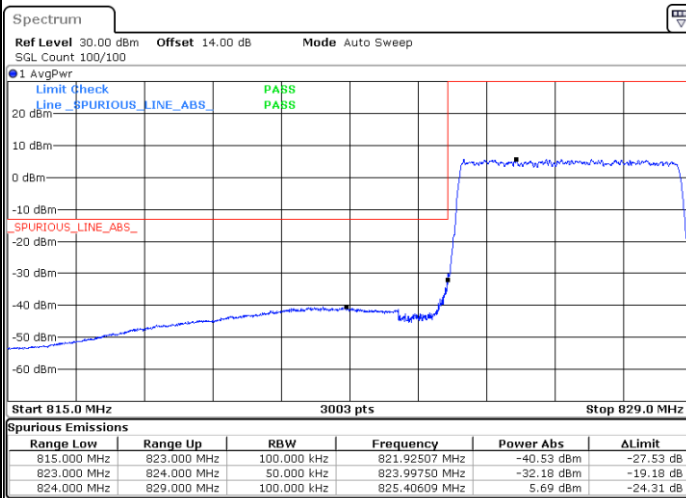
Date: 21.SEP.2023 13:26:42

Highest Band Edge / 1 RB



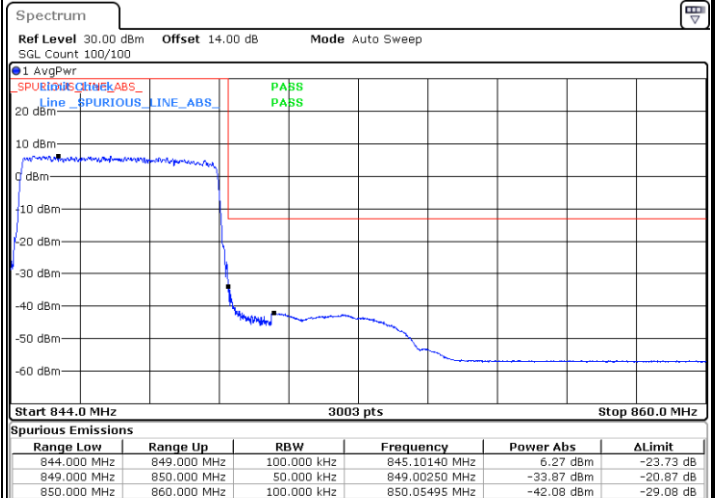
Date: 21.SEP.2023 14:19:16

Lowest Band Edge / Full RB



Date: 21.SEP.2023 13:30:16

Highest Band Edge / Full RB

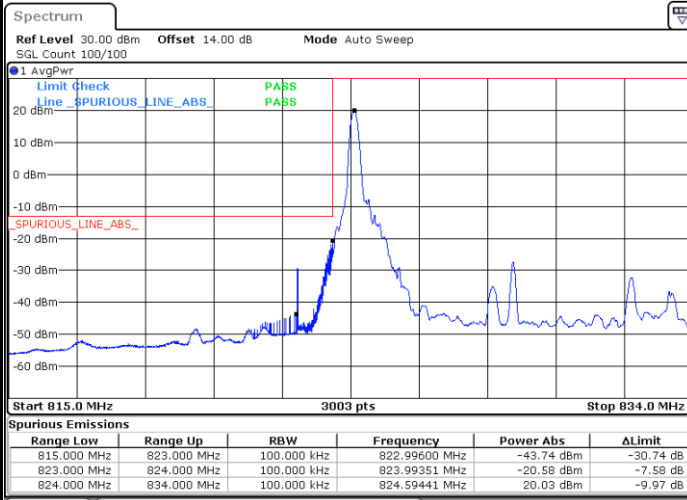


Date: 21.SEP.2023 14:22:49



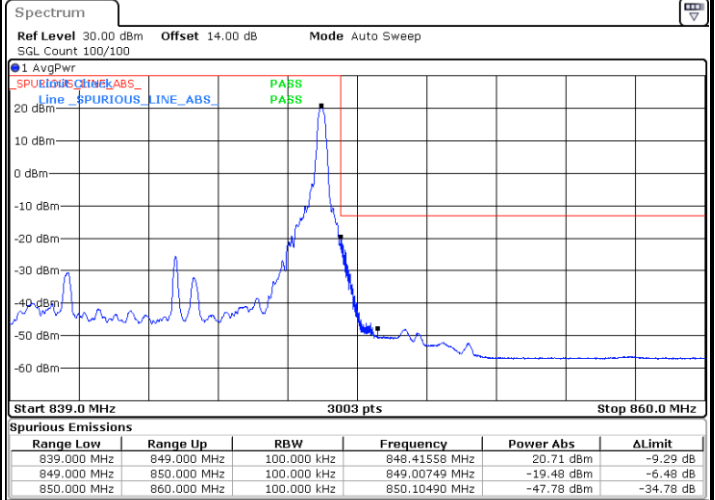
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1RB



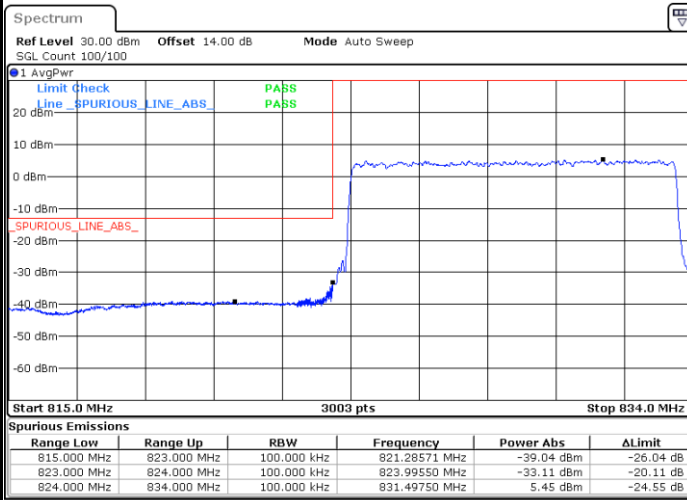
Date: 21.SEP.2023 14:14:48

Highest Band Edge / 1RB



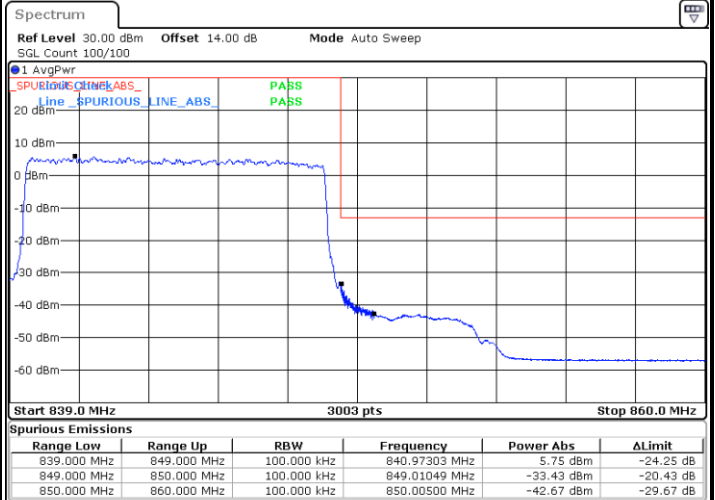
Date: 21.SEP.2023 14:30:01

Lowest Band Edge / Full RB



Date: 21.SEP.2023 14:26:28

Highest Band Edge / Full RB

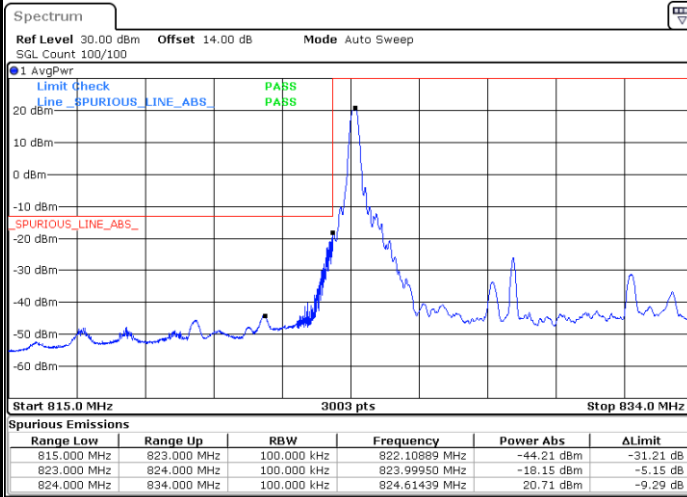


Date: 21.SEP.2023 14:33:35



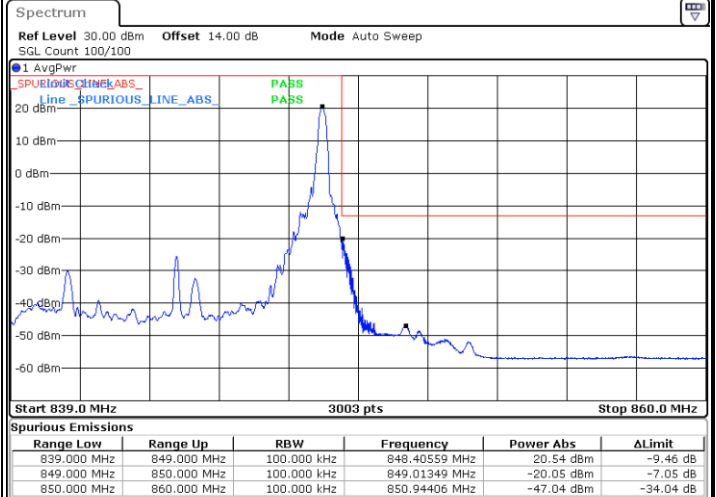
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



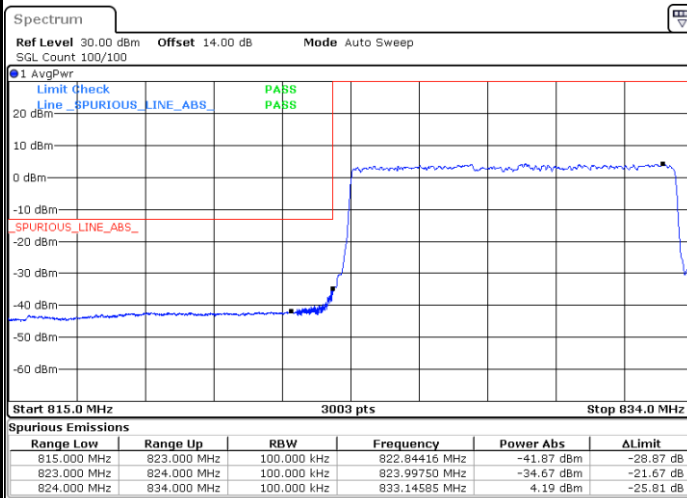
Date: 21.SEP.2023 14:24:06

Highest Band Edge / 1 RB



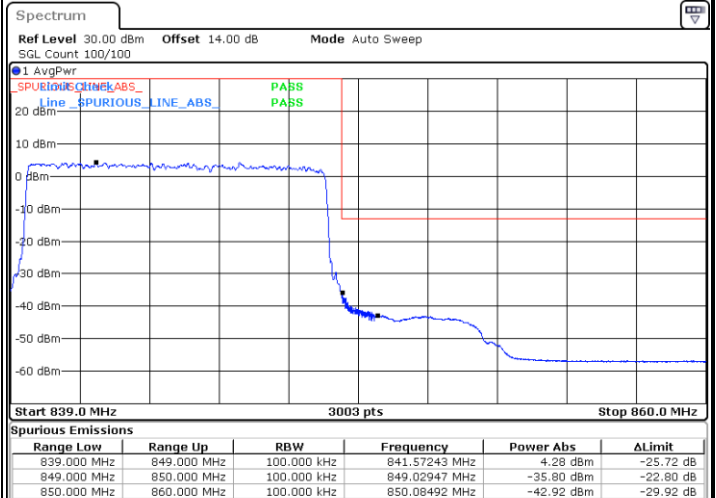
Date: 21.SEP.2023 14:31:12

Lowest Band Edge / Full RB



Date: 21.SEP.2023 14:27:39

Highest Band Edge / Full RB

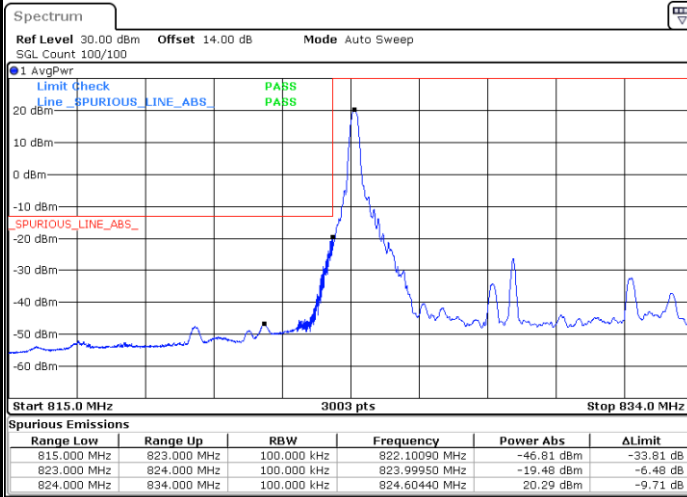


Date: 21.SEP.2023 14:34:46



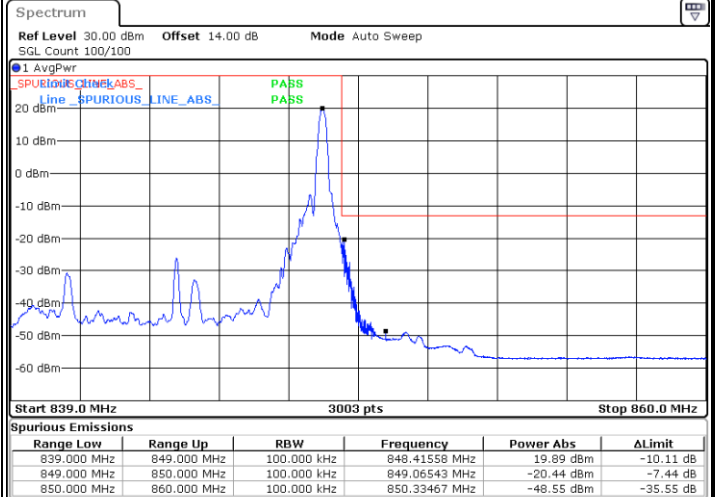
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



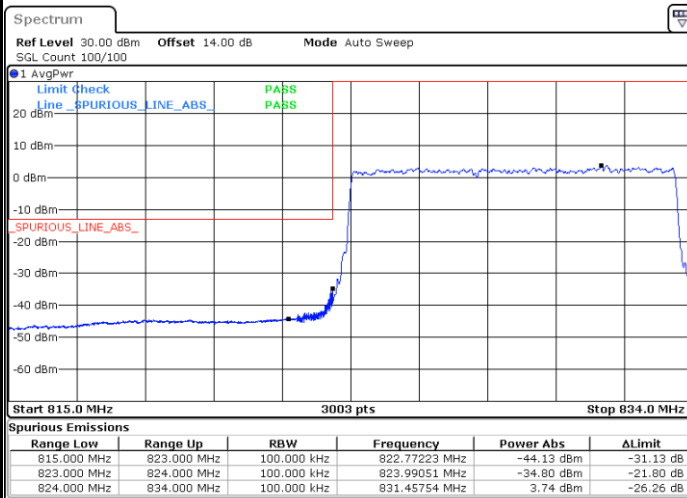
Date: 21.SEP.2023 14:25:17

Highest Band Edge / 1 RB



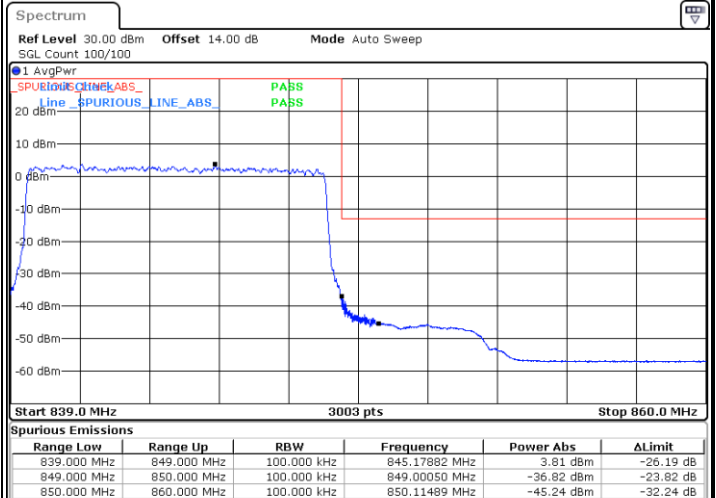
Date: 21.SEP.2023 14:32:24

Lowest Band Edge / Full RB



Date: 21.SEP.2023 14:28:50

Highest Band Edge / Full RB



Date: 21.SEP.2023 14:35:57

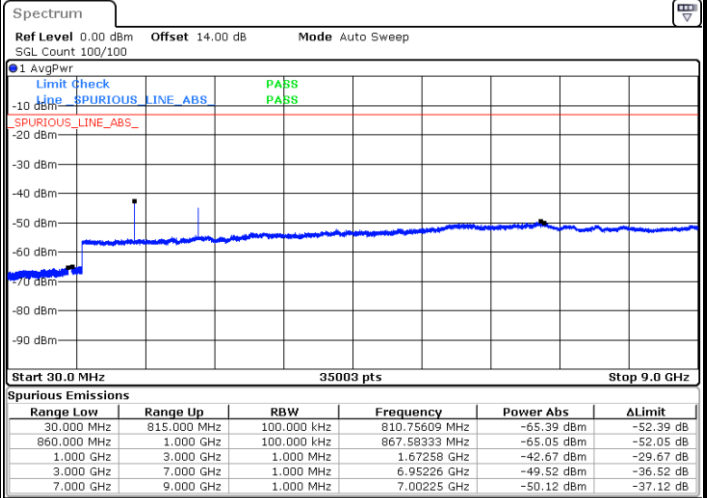
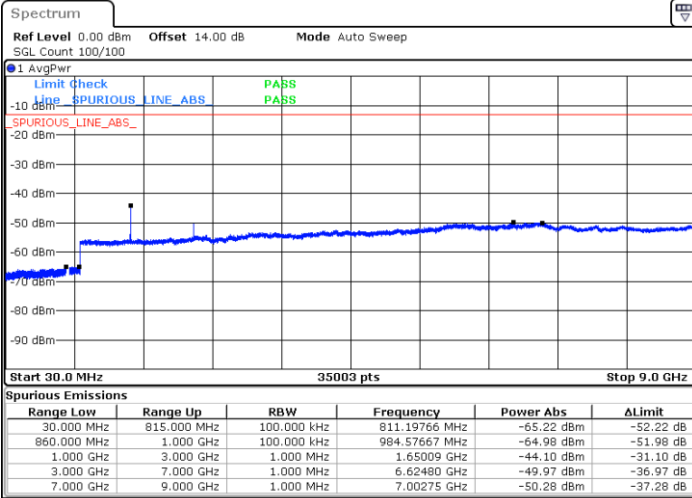


Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

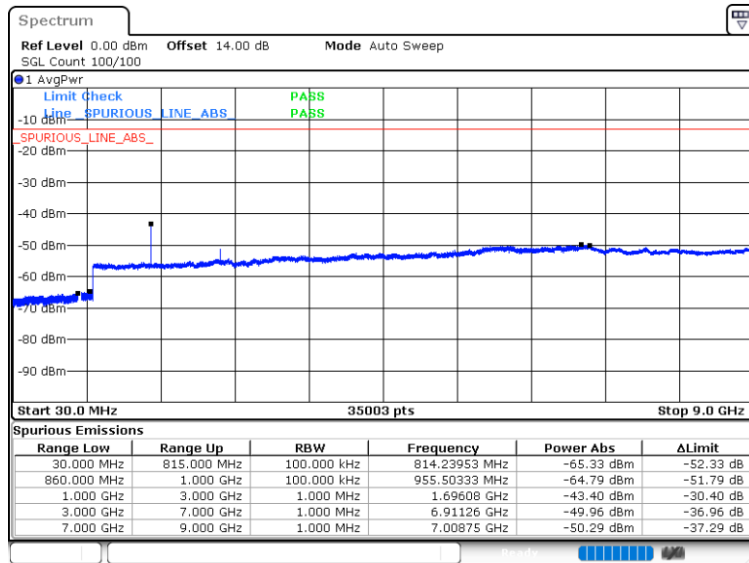
Middle Channel / QPSK



Date: 21.SEP.2023 11:46:30

Date: 21.SEP.2023 11:56:41

Highest Channel / QPSK



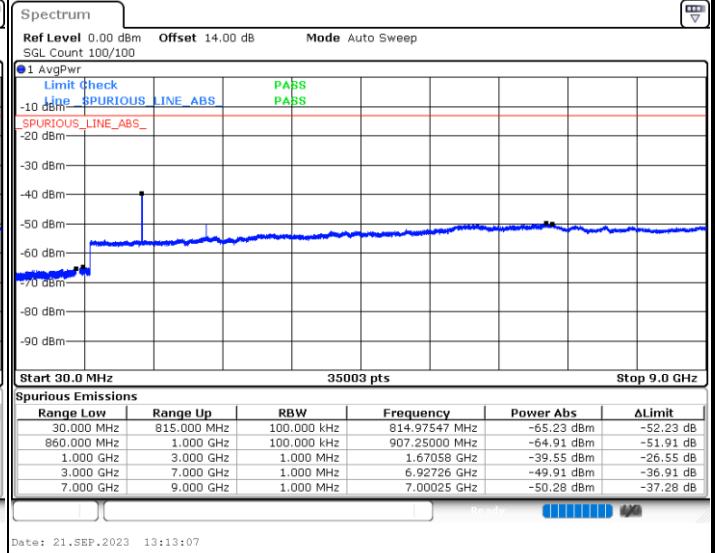
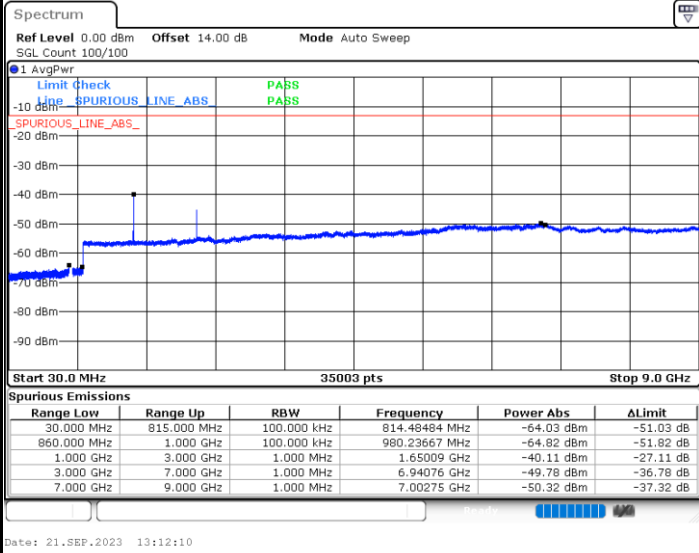
Date: 21.SEP.2023 12:05:53



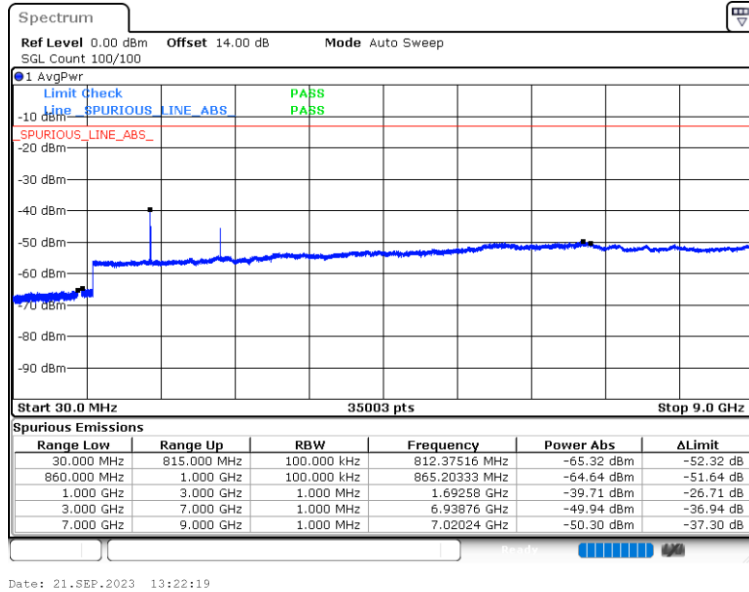
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

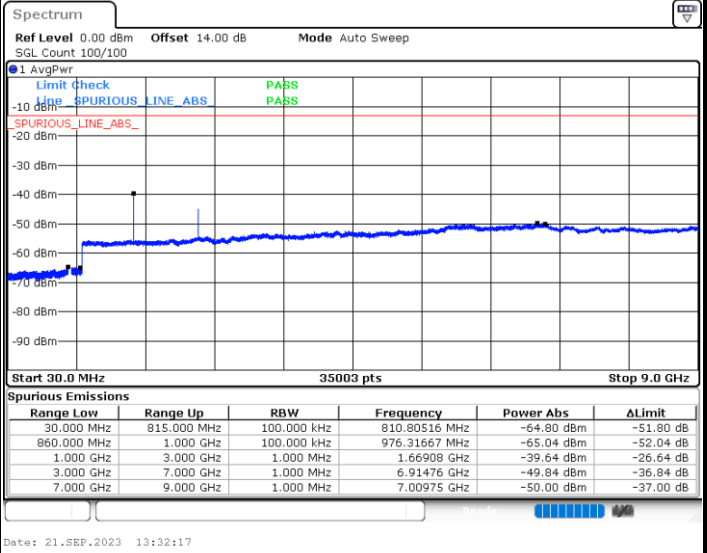
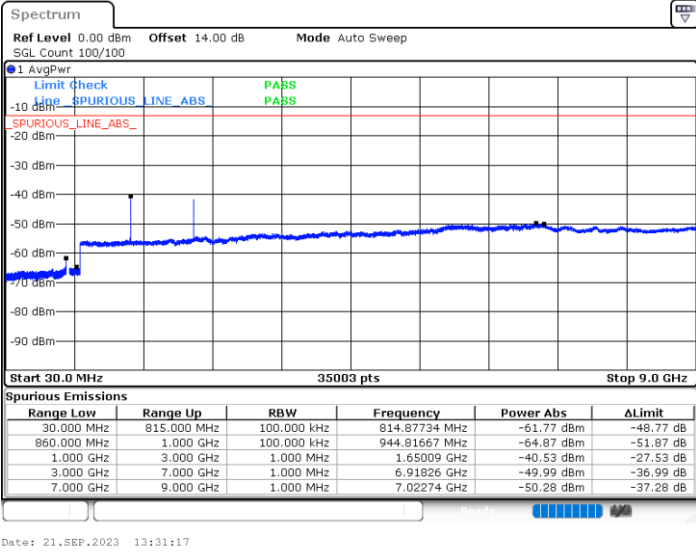




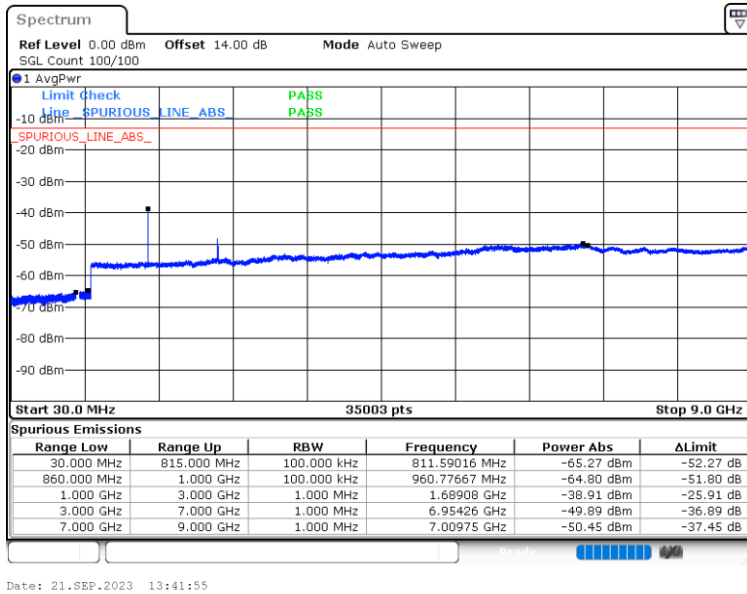
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

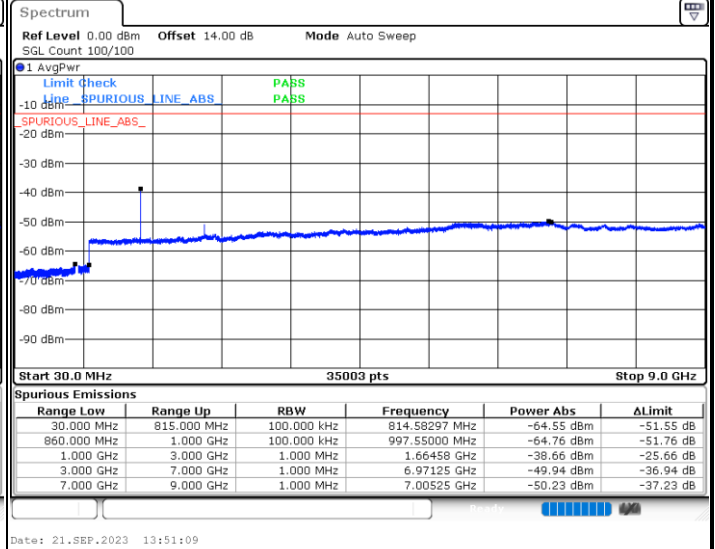
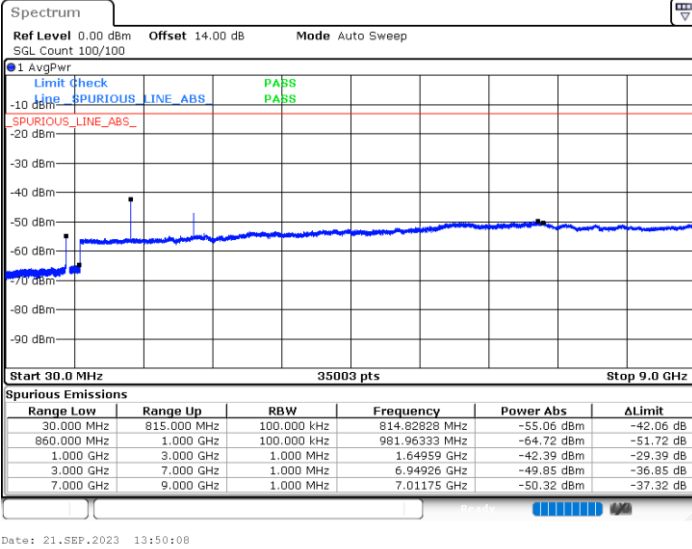




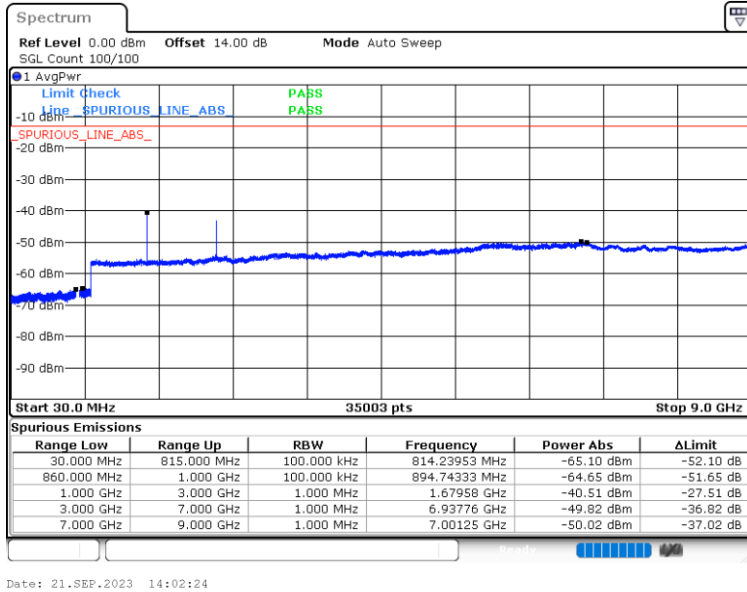
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage = 4.45 V.