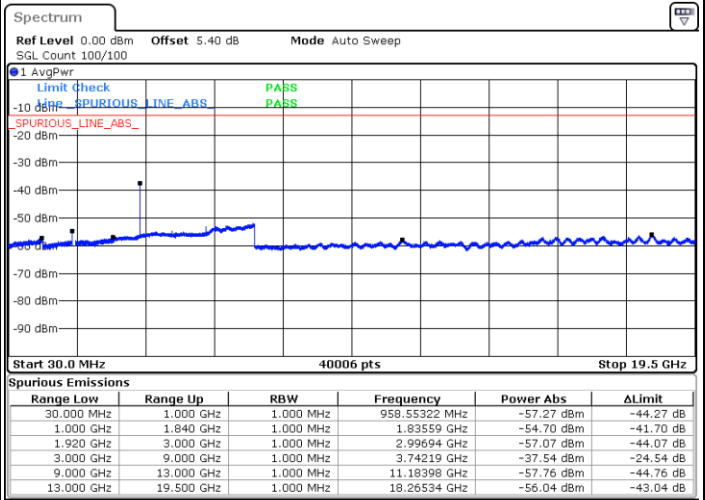
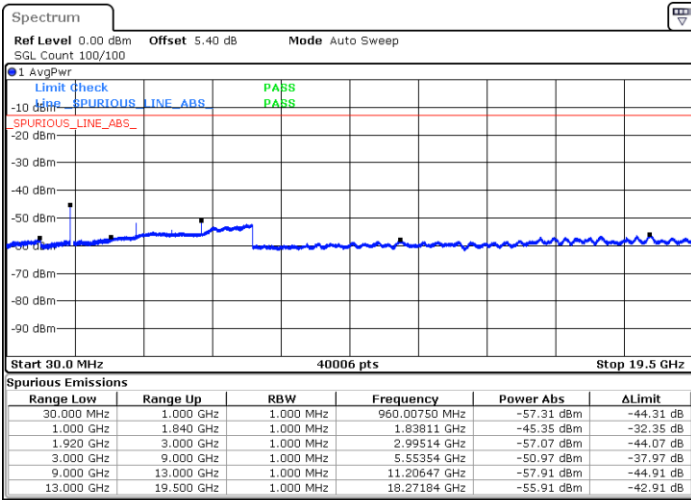




LTE Band 2 / 20MHz

Lowest Channel / QPSK

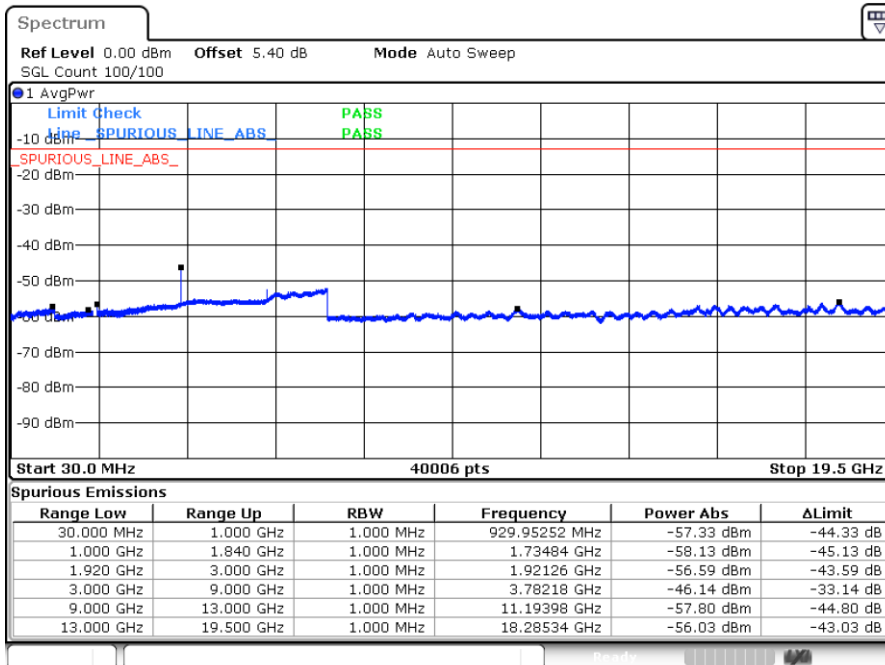
Middle Channel / QPSK



Date: 4.APR.2023 12:12:36

Date: 4.APR.2023 12:14:39

Highest Channel / QPSK



Date: 4.APR.2023 12:16:42



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	0.0025	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0039	
20	Battery End Point	0.0014	

Note:

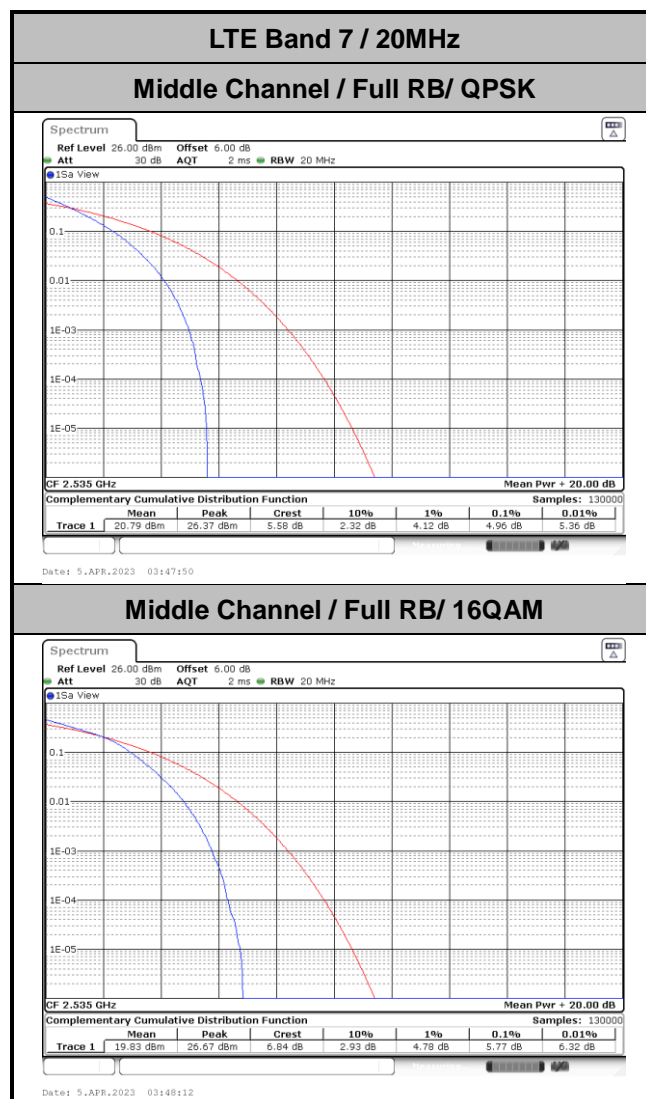
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage = 4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

Peak-to-Average Ratio

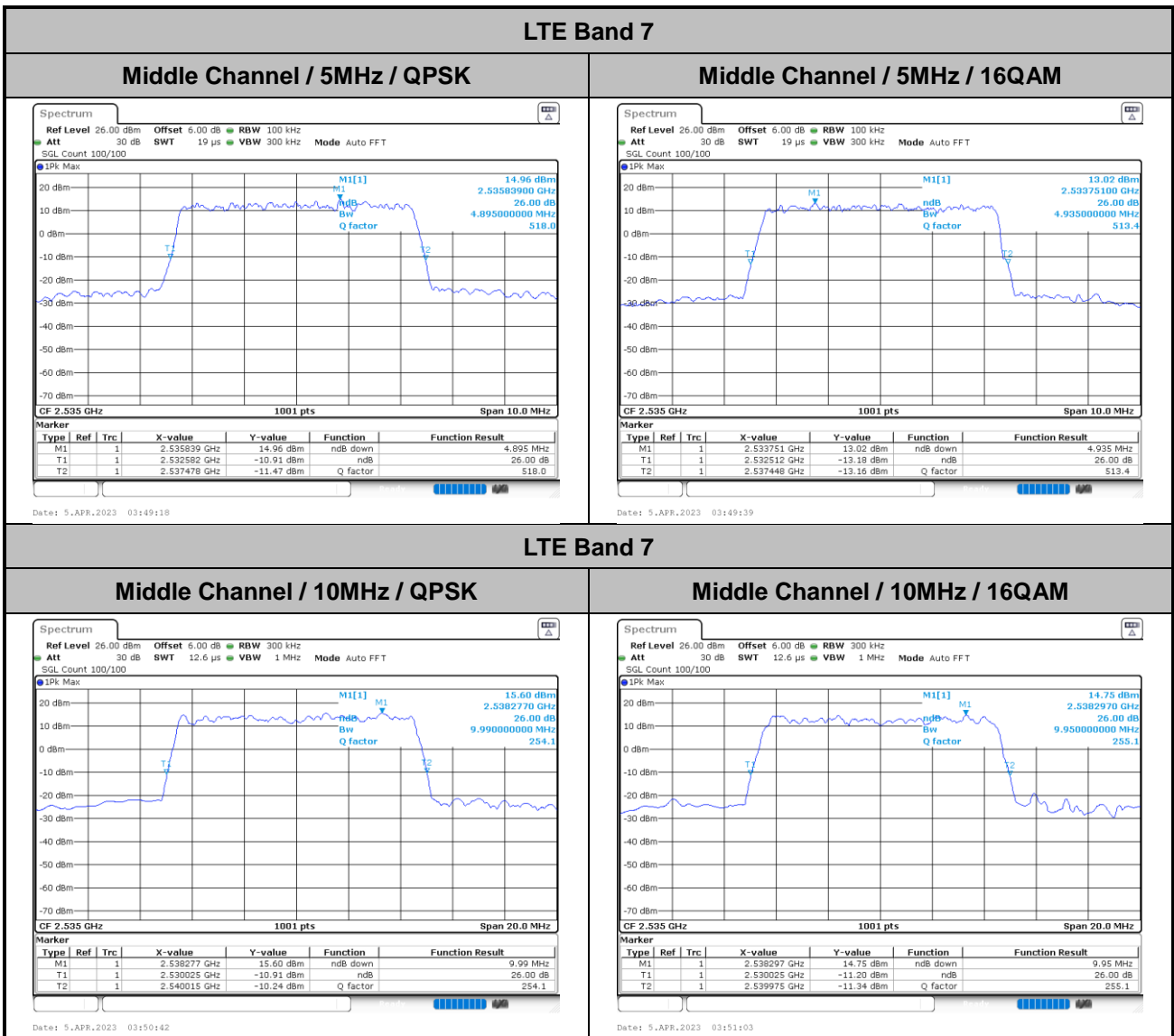
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	-	Limit: 13dB
RB Size	Full RB	Full RB	-	Result
Middle CH	4.96	5.77	-	PASS





26dB Bandwidth

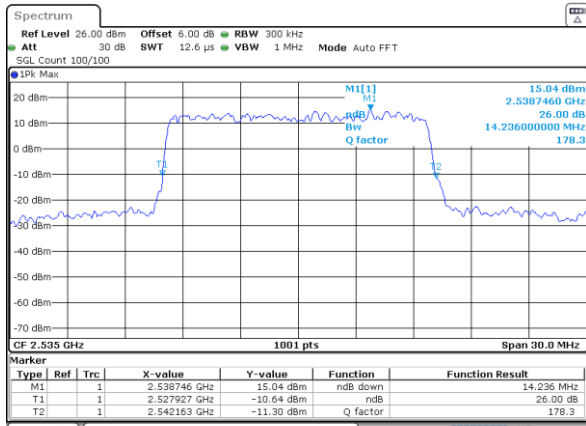
Mode	LTE Band 7 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.90	4.94	9.99	9.95	14.24	14.66	18.86	19.06



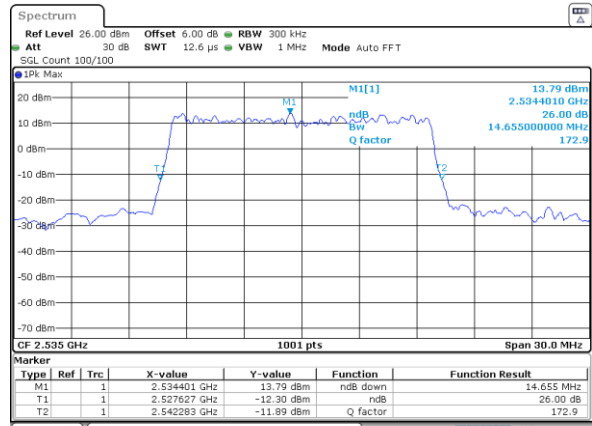


LTE Band 7

Middle Channel / 15MHz / QPSK

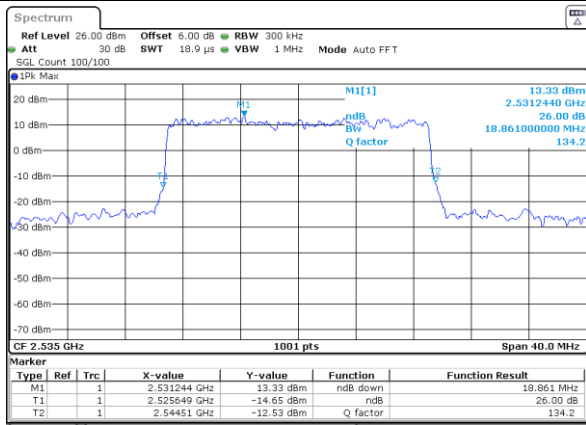


Middle Channel / 15MHz / 16QAM

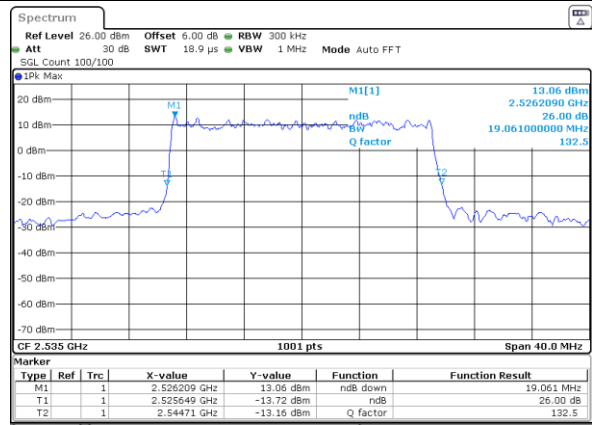


LTE Band 7

Middle Channel / 20MHz / QPSK



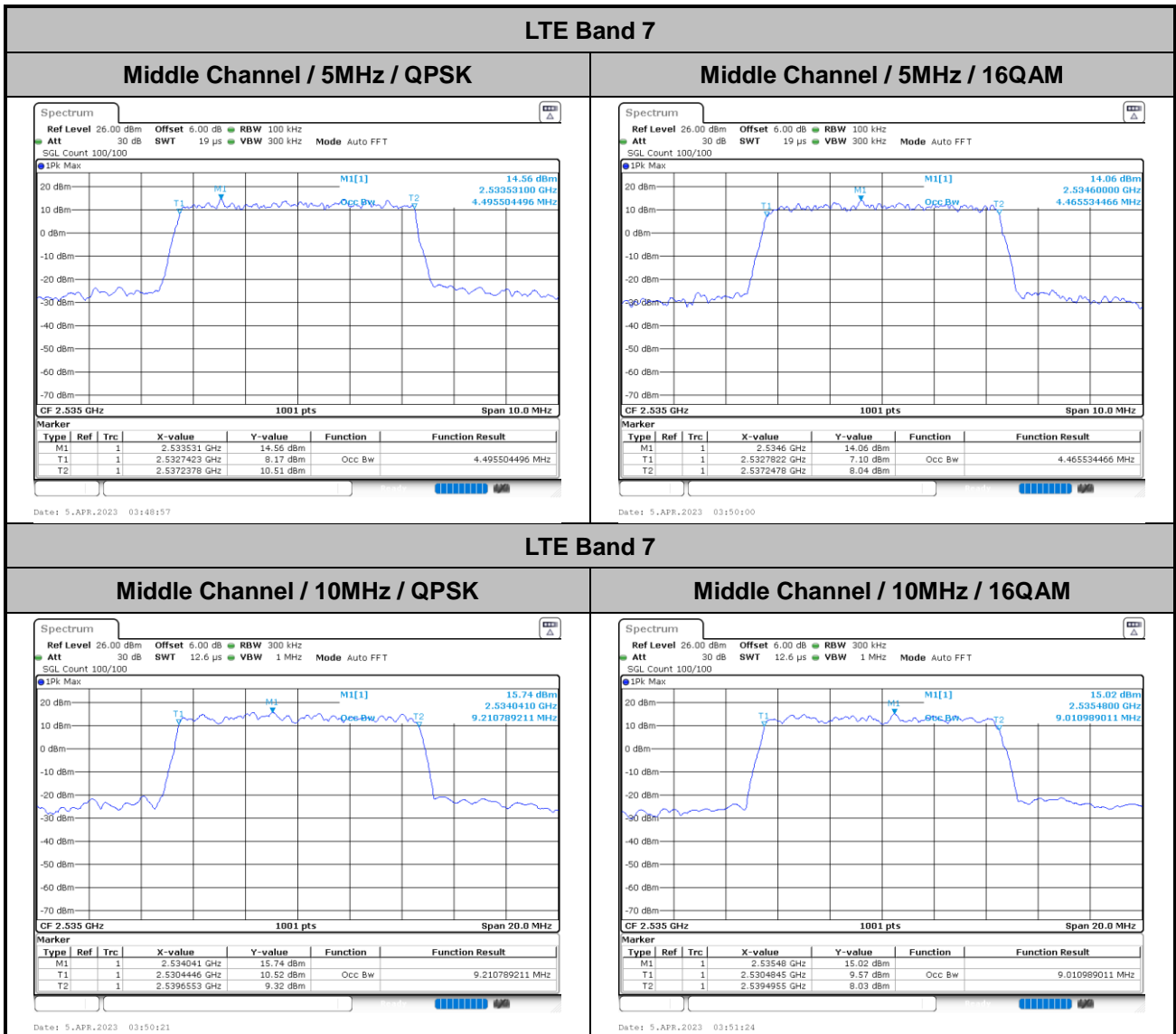
Middle Channel / 20MHz / 16QAM





Occupied Bandwidth

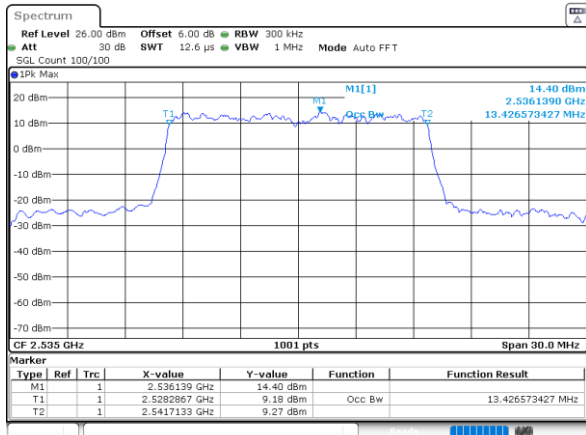
Mode	LTE Band 7 : 99%OBW(MHz)							
	5MHz		10MHz		15MHz		20MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.50	4.47	9.21	9.01	13.43	13.49	17.86	17.94





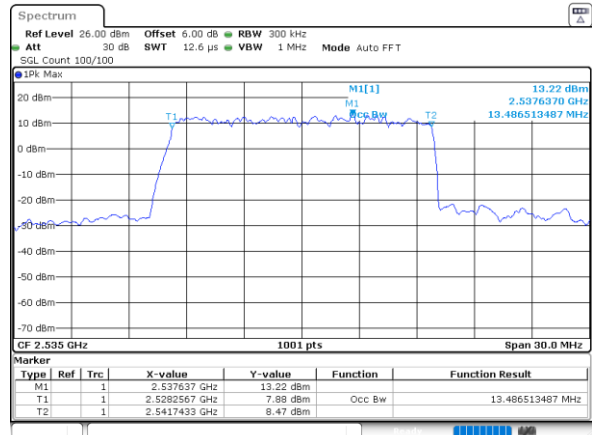
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 5.APR.2023 03:51:45

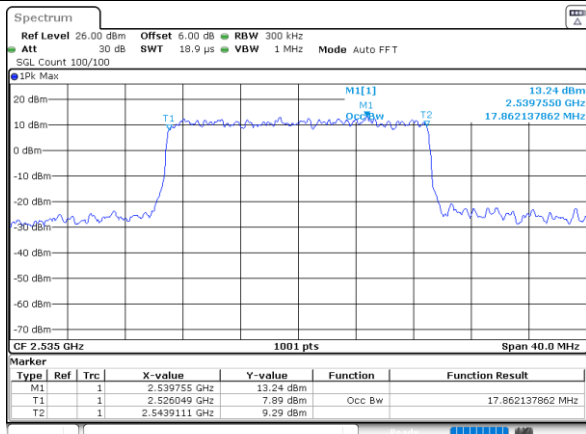
Middle Channel / 15MHz / 16QAM



Date: 5.APR.2023 03:52:48

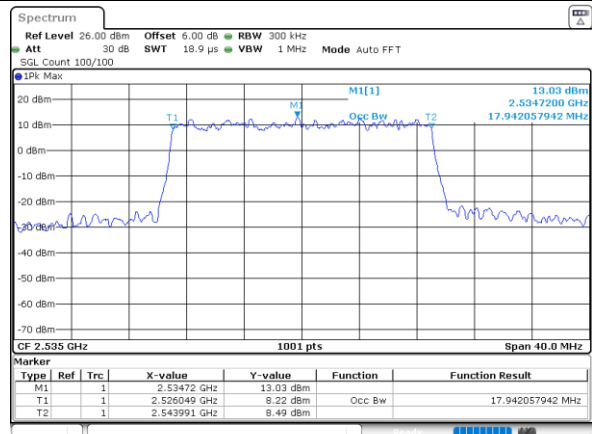
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 5.APR.2023 03:46:46

Middle Channel / 20MHz / 16QAM



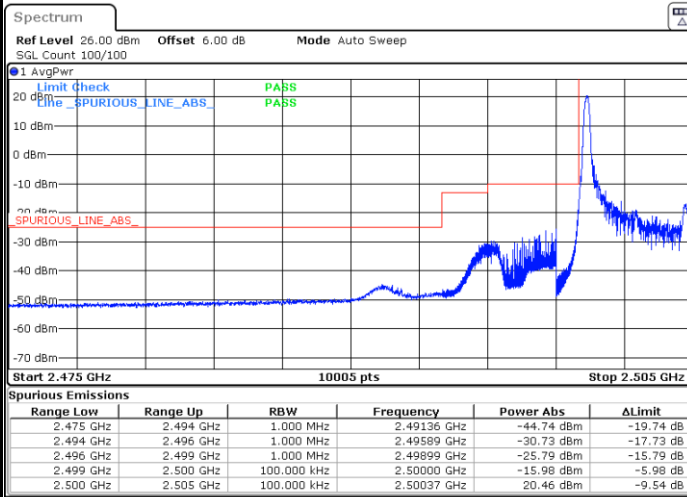
Date: 5.APR.2023 03:47:07



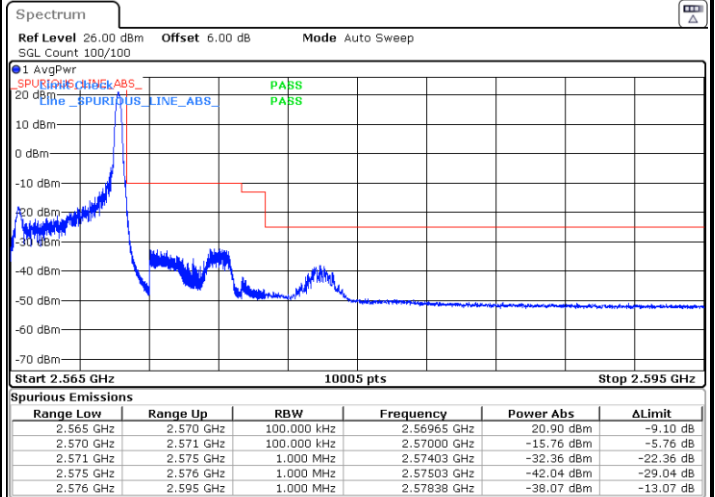
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

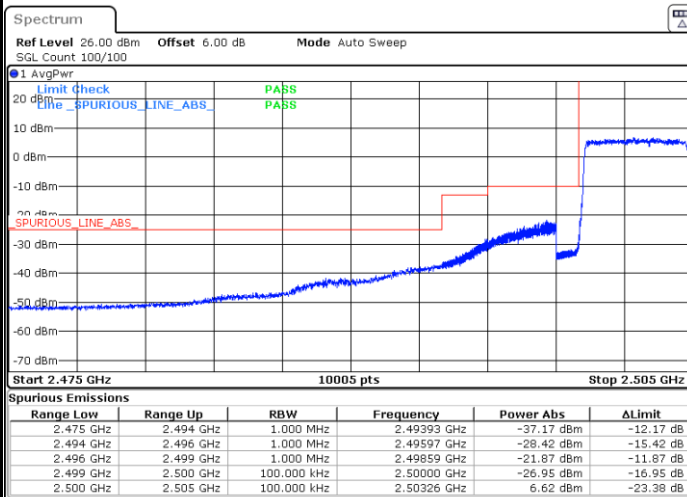
Lowest Band Edge / 1 RB



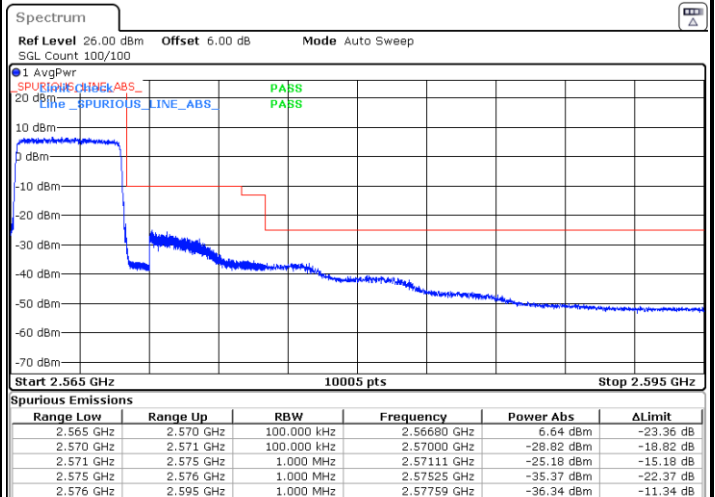
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



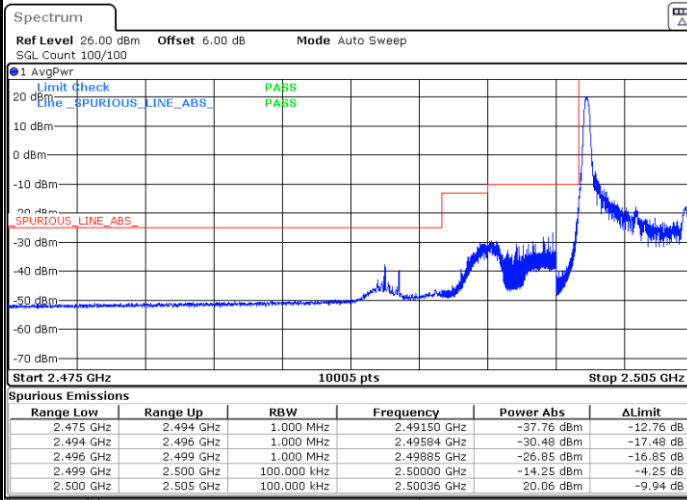
Highest Band Edge / Full RB





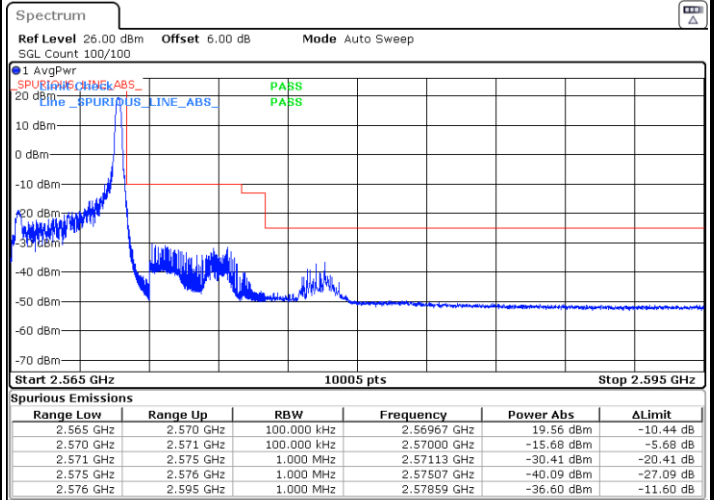
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



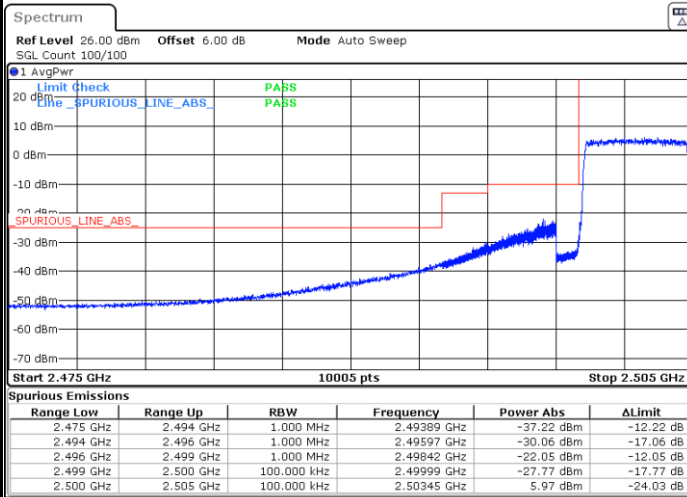
Date: 5.APR.2023 02:53:08

Highest Band Edge / 1 RB



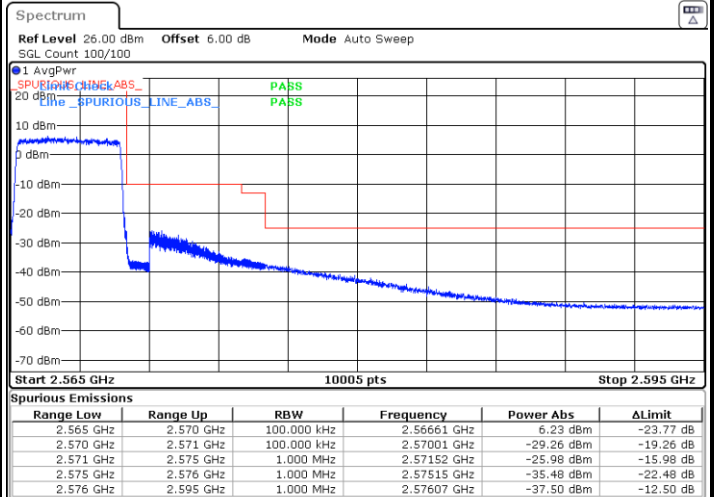
Date: 5.APR.2023 03:01:09

Lowest Band Edge / Full RB



Date: 5.APR.2023 02:55:10

Highest Band Edge / Full RB

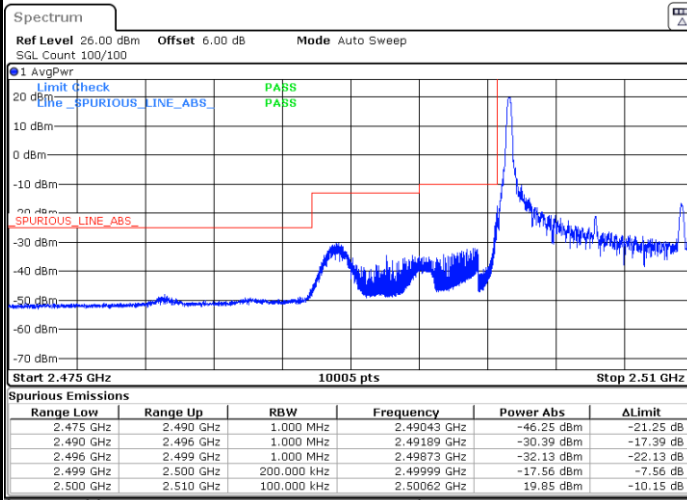


Date: 5.APR.2023 03:03:10



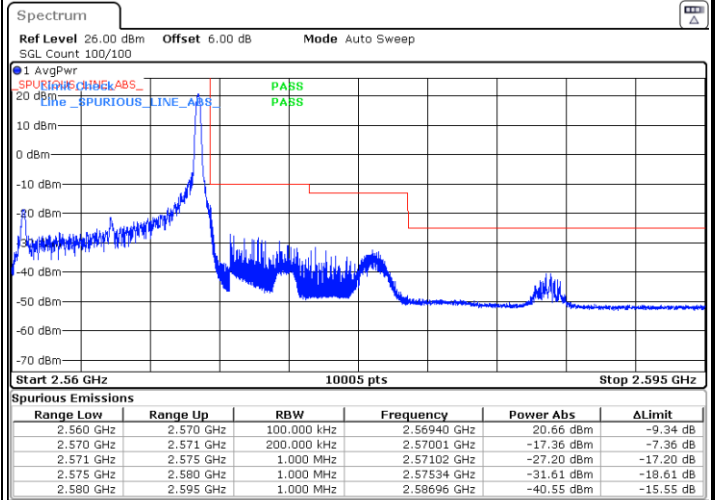
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



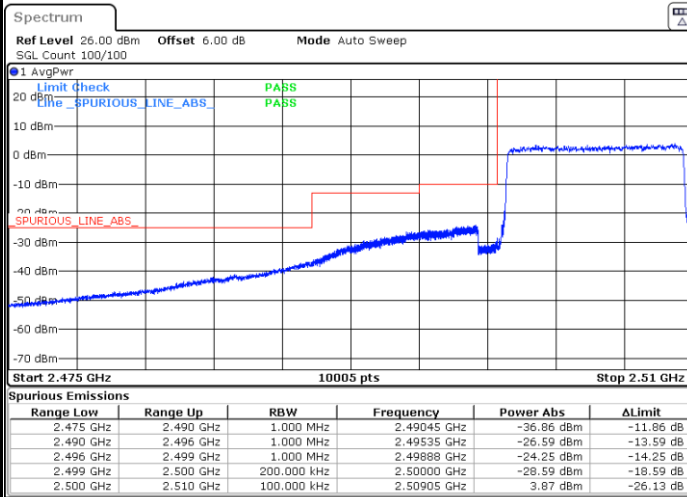
Date: 5.APR.2023 03:06:31

Highest Band Edge / 1 RB



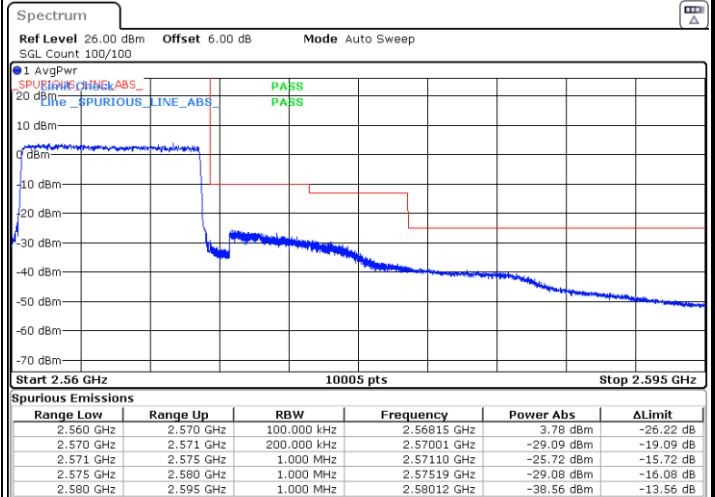
Date: 5.APR.2023 03:14:34

Lowest Band Edge / Full RB



Date: 5.APR.2023 03:09:53

Highest Band Edge / Full RB



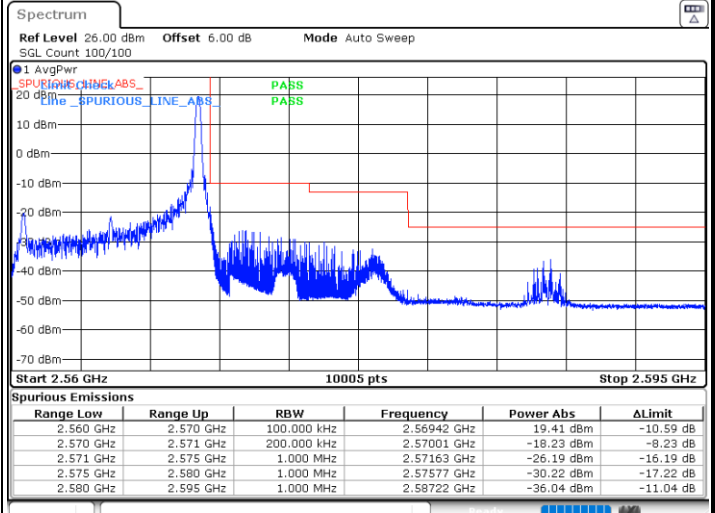
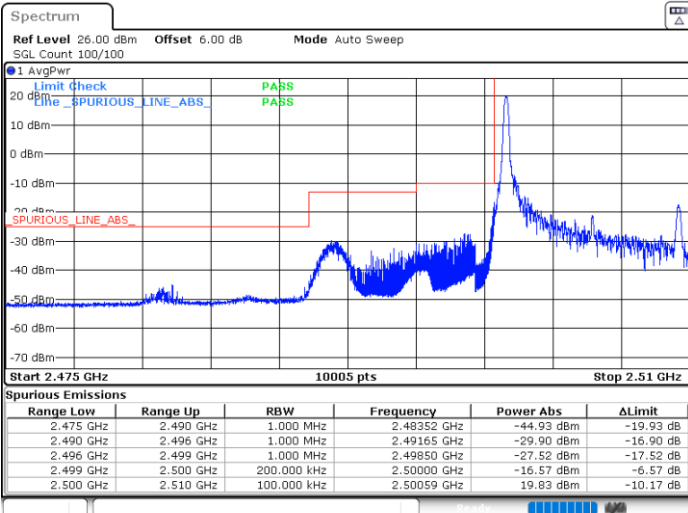
Date: 5.APR.2023 03:17:56



LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

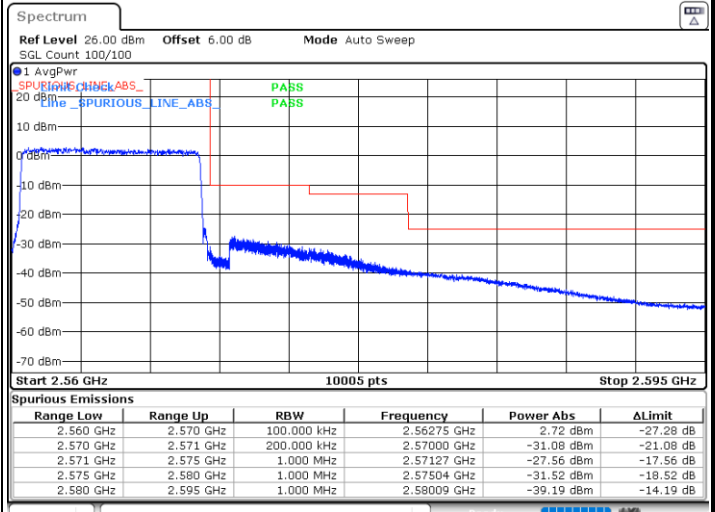
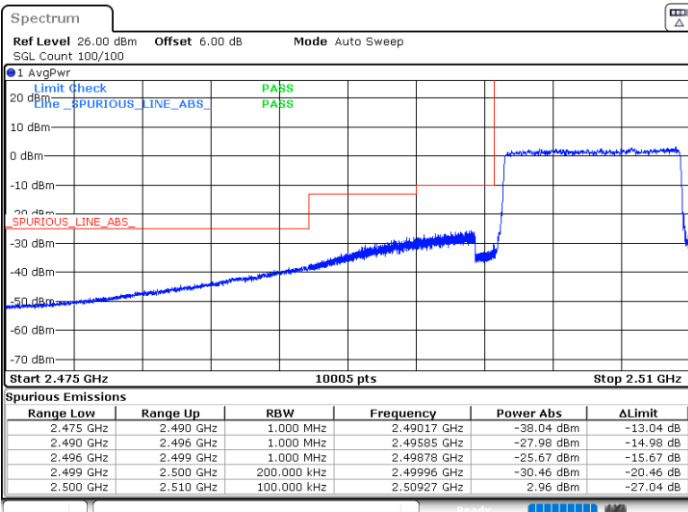


Date: 5.APR.2023 03:07:11

Date: 5.APR.2023 03:15:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.APR.2023 03:09:12

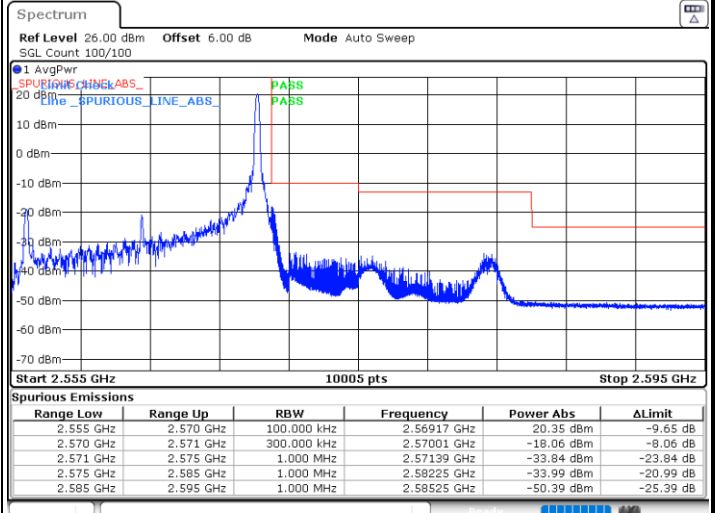
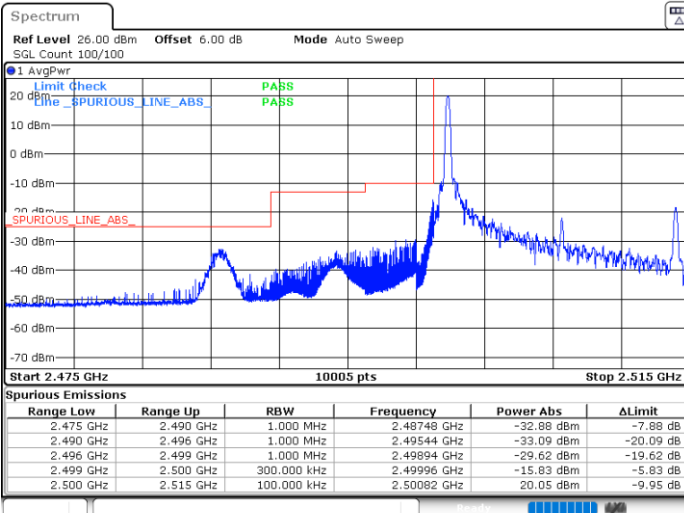
Date: 5.APR.2023 03:17:15



LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

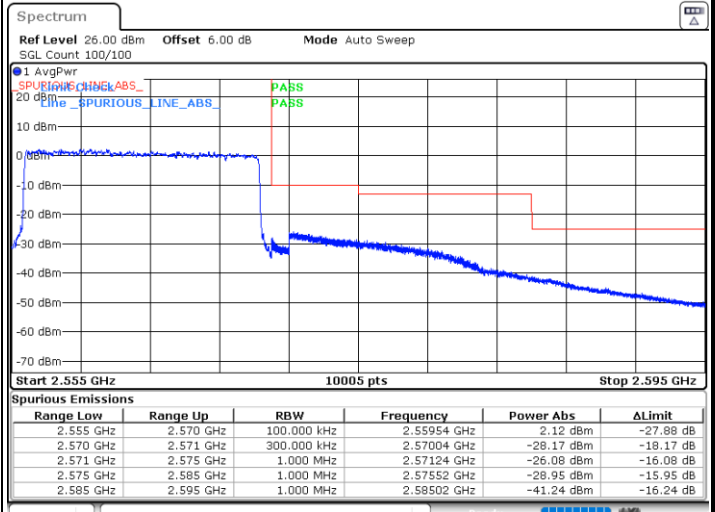
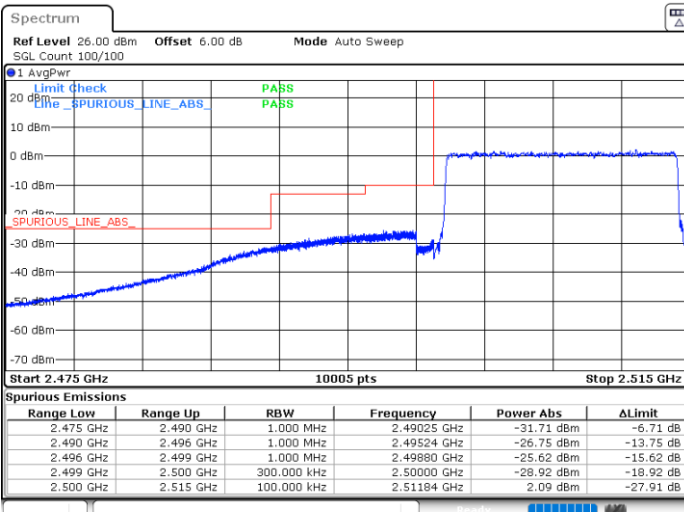


Date: 5.APR.2023 03:20:36

Date: 5.APR.2023 03:28:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



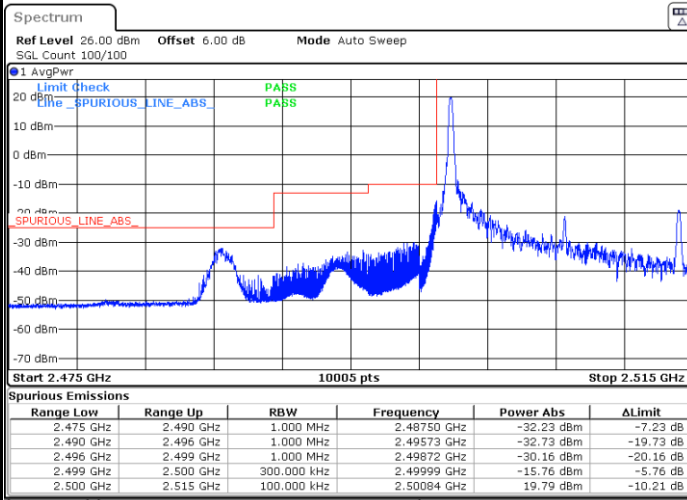
Date: 5.APR.2023 03:23:59

Date: 5.APR.2023 03:32:00



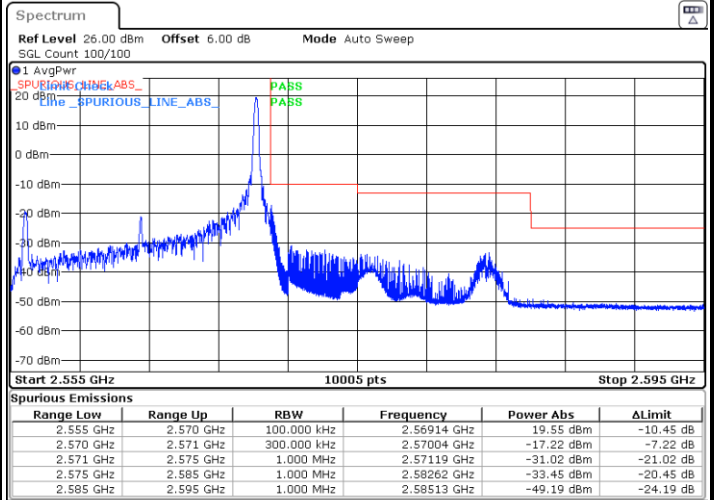
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



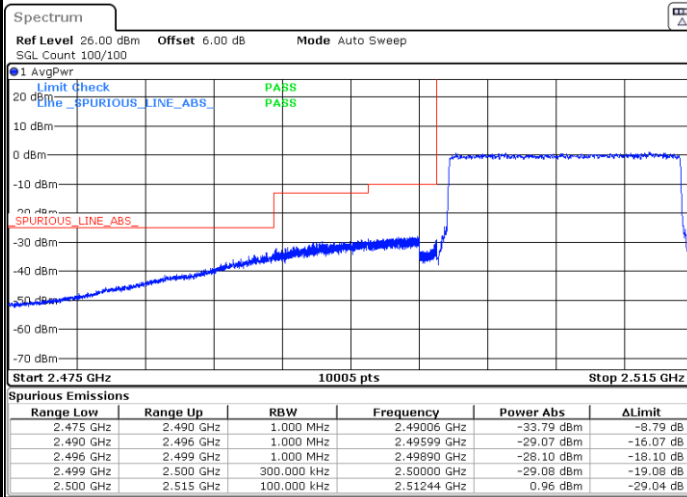
Date: 5.APR.2023 03:21:17

Highest Band Edge / 1 RB



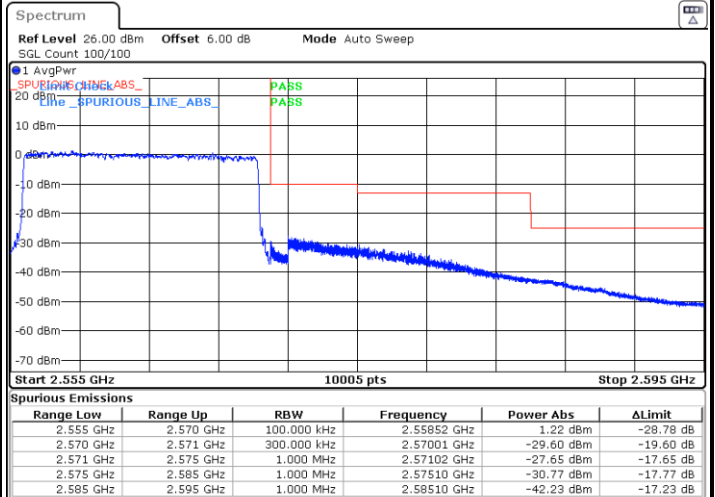
Date: 5.APR.2023 03:29:19

Lowest Band Edge / Full RB



Date: 5.APR.2023 03:23:19

Highest Band Edge / Full RB

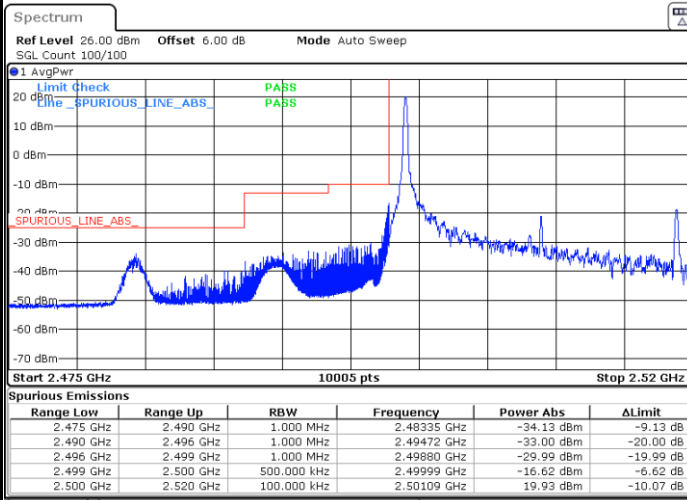


Date: 5.APR.2023 03:31:20



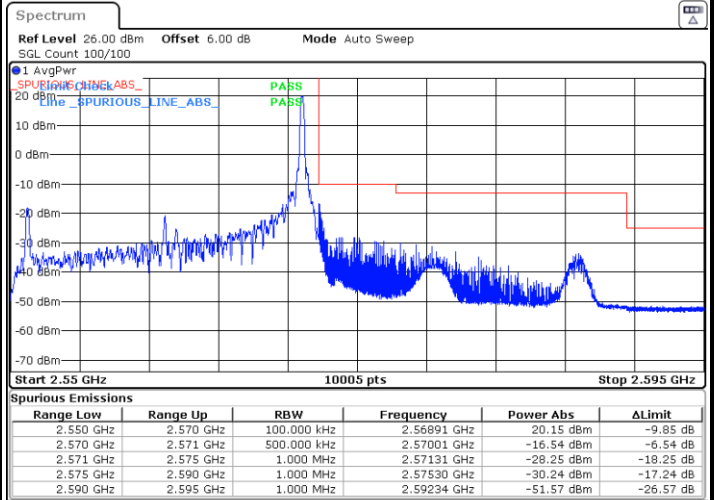
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



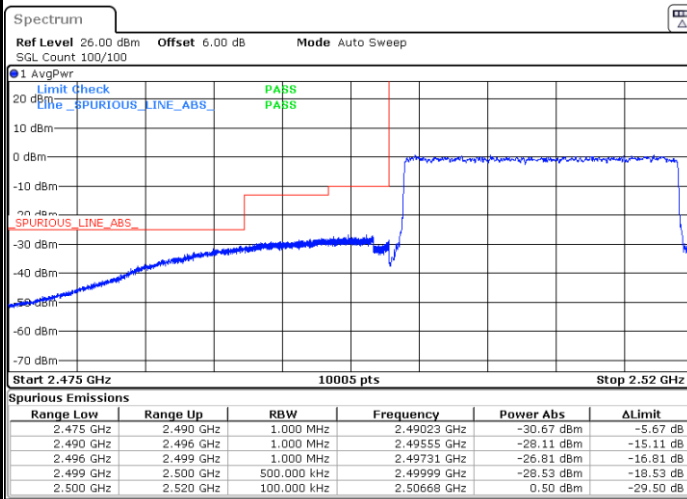
Date: 5.APR.2023 03:34:41

Highest Band Edge / 1 RB



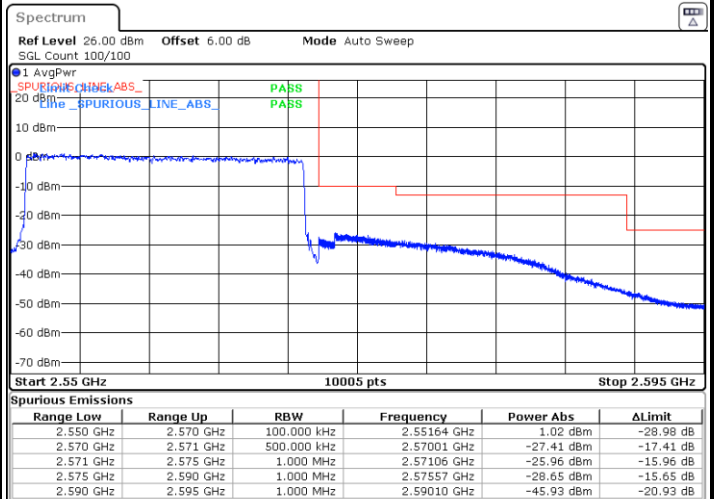
Date: 5.APR.2023 03:42:42

Lowest Band Edge / Full RB



Date: 5.APR.2023 03:38:04

Highest Band Edge / Full RB

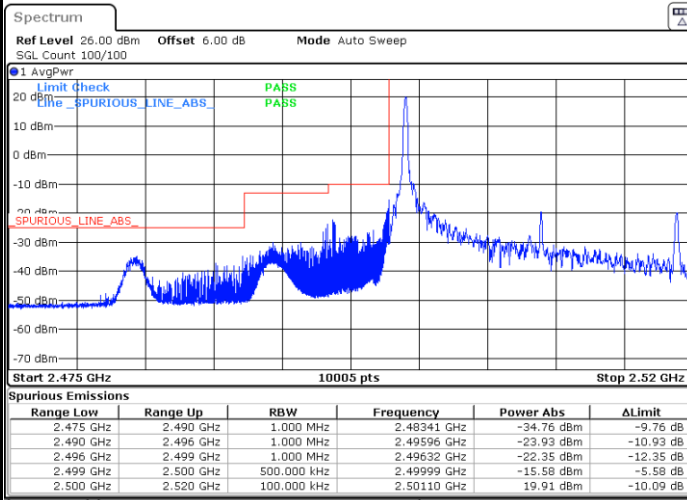


Date: 5.APR.2023 03:46:04



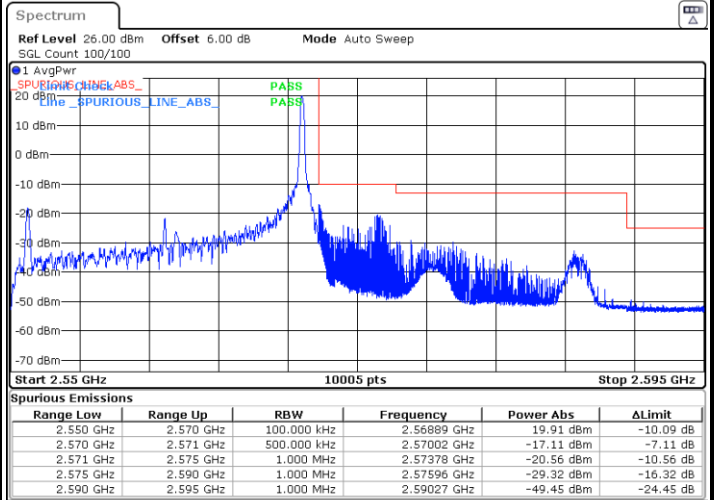
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



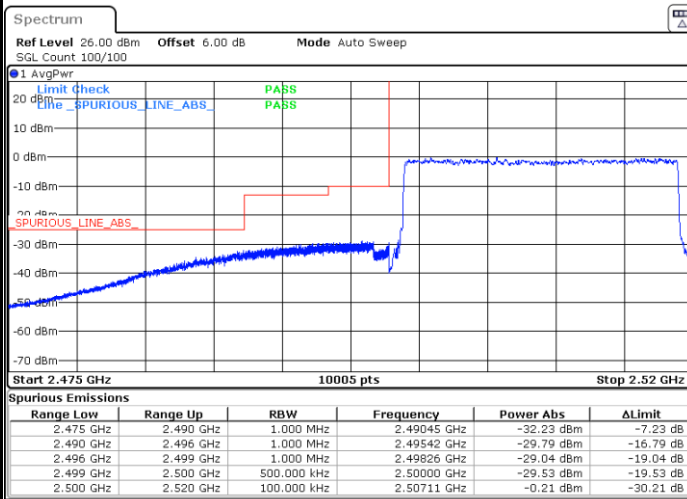
Date: 5.APR.2023 03:35:21

Highest Band Edge / 1 RB



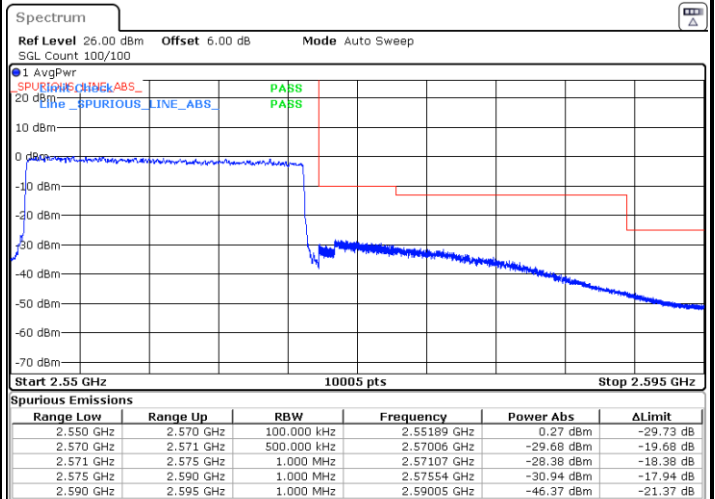
Date: 5.APR.2023 03:43:23

Lowest Band Edge / Full RB



Date: 5.APR.2023 03:37:23

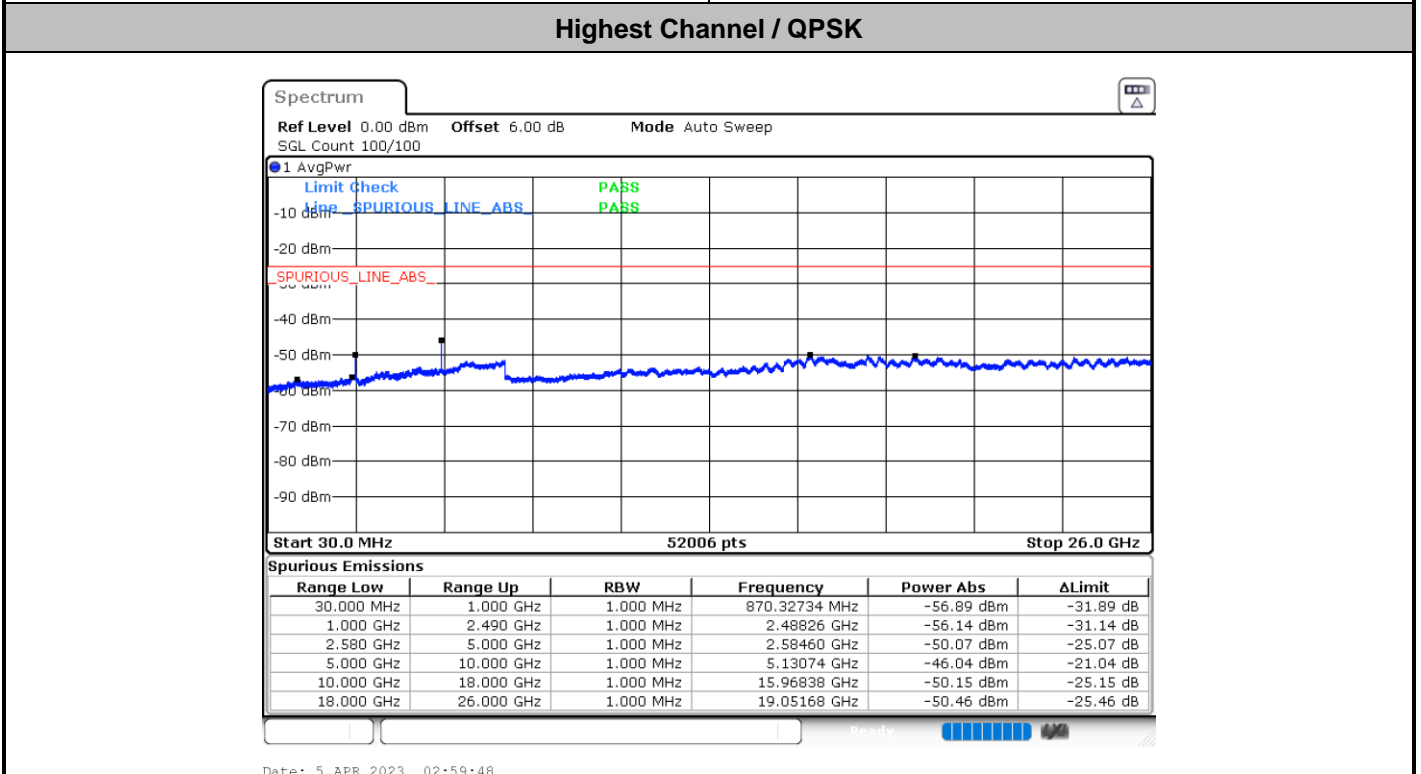
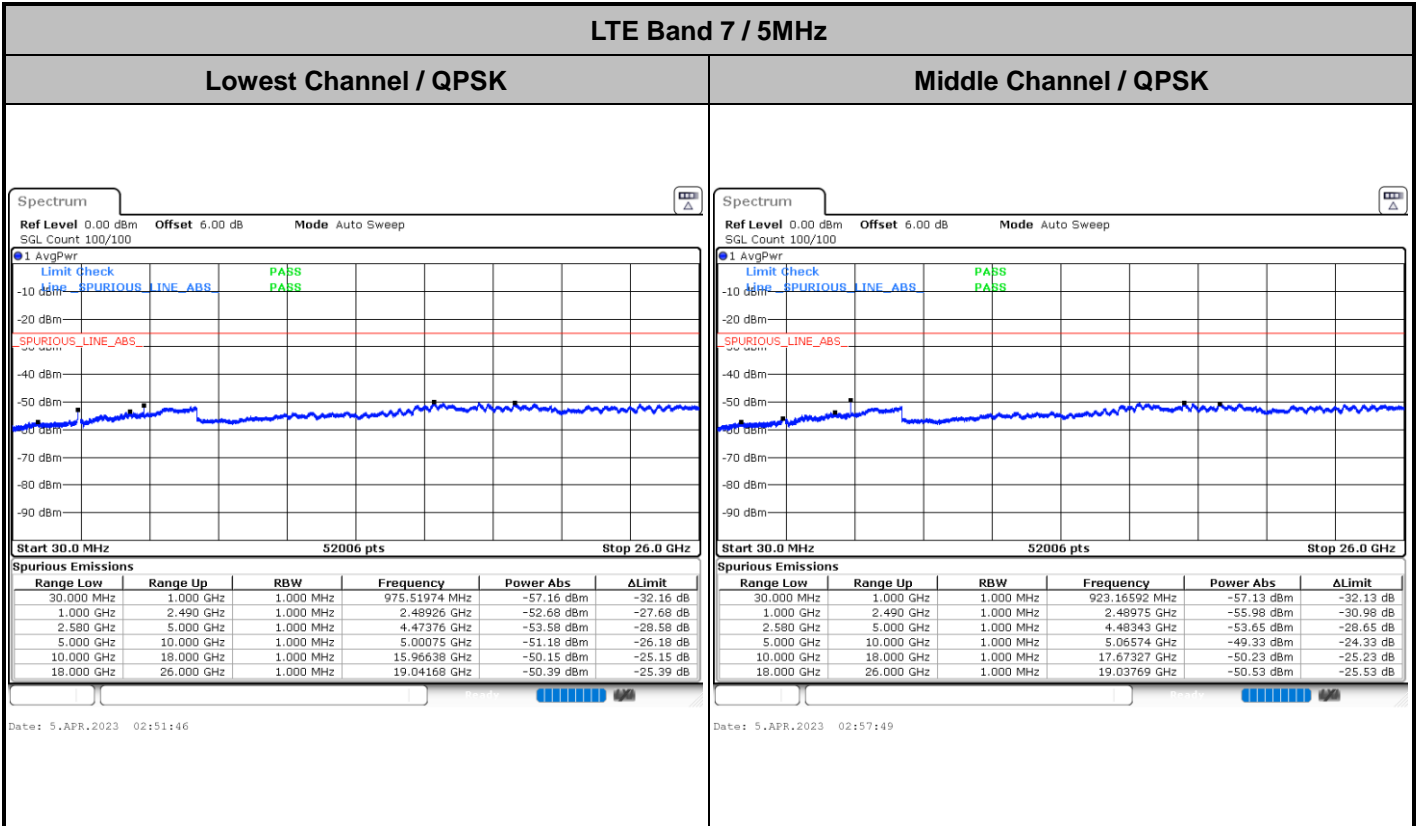
Highest Band Edge / Full RB



Date: 5.APR.2023 03:45:24



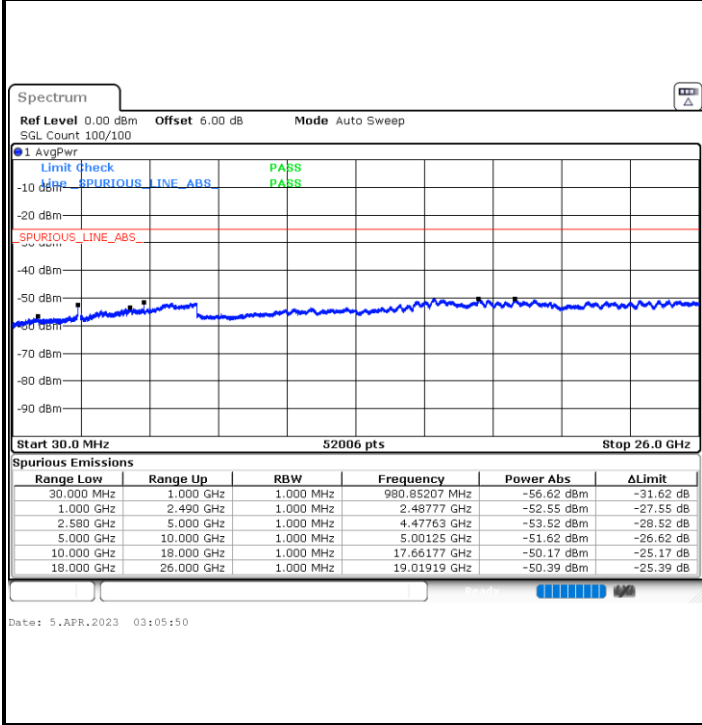
Conducted Spurious Emission



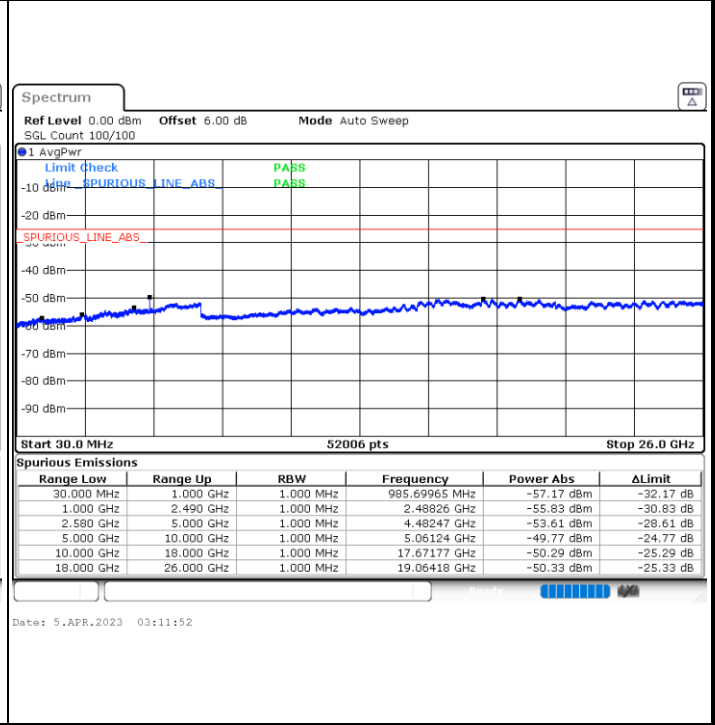


LTE Band 7 / 10MHz

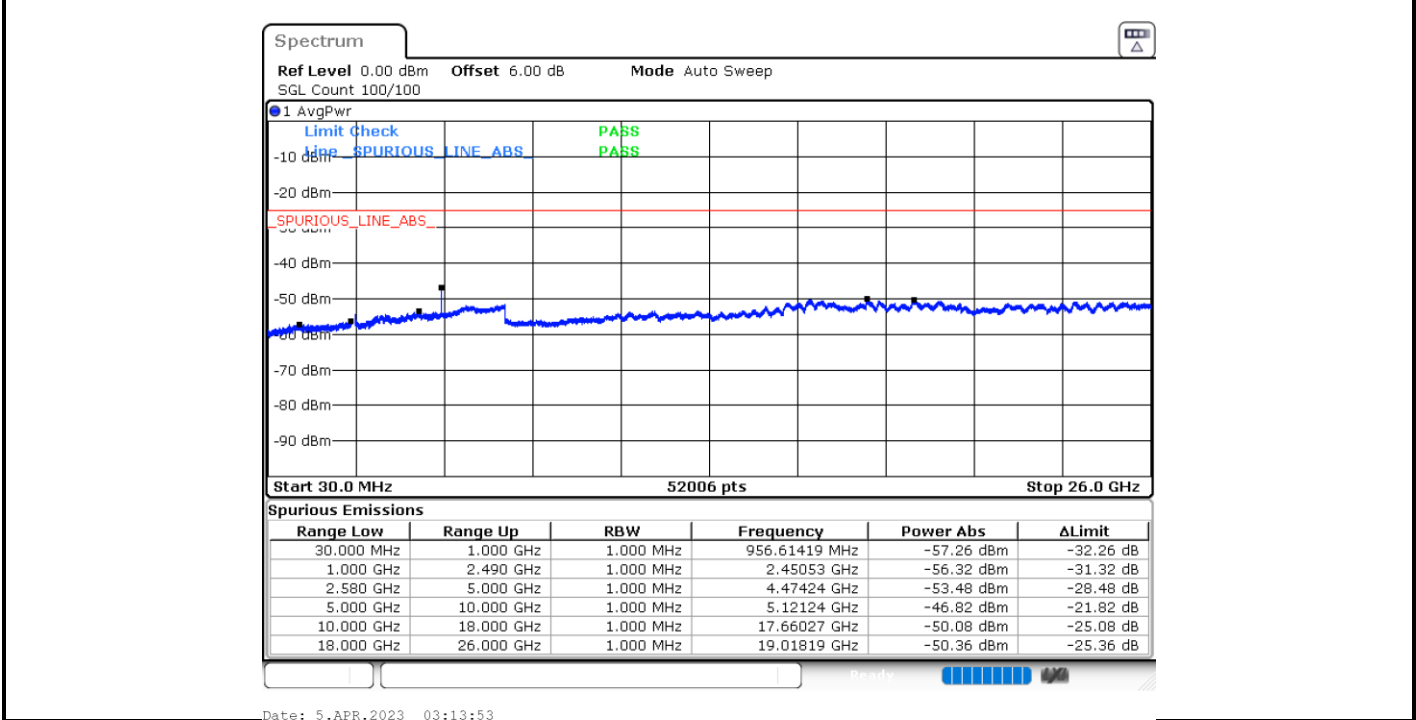
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

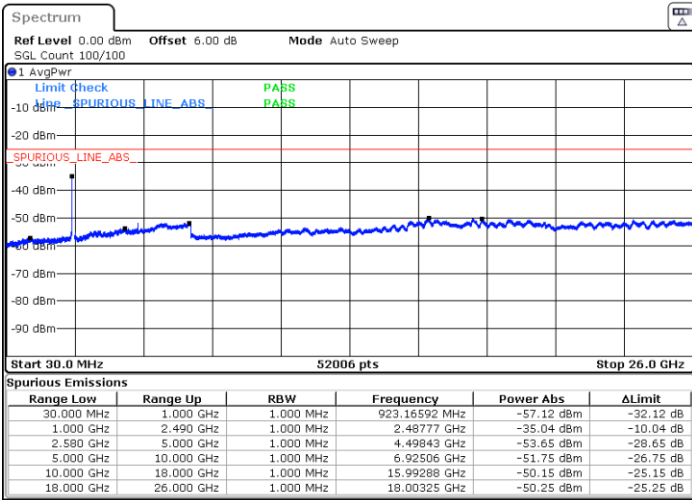




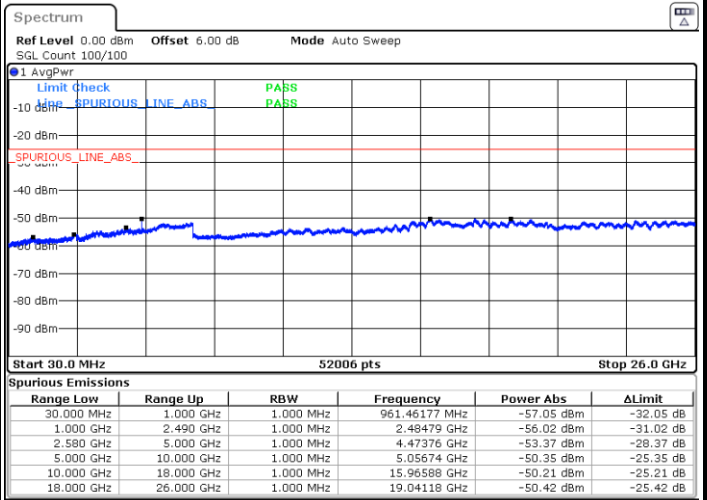
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

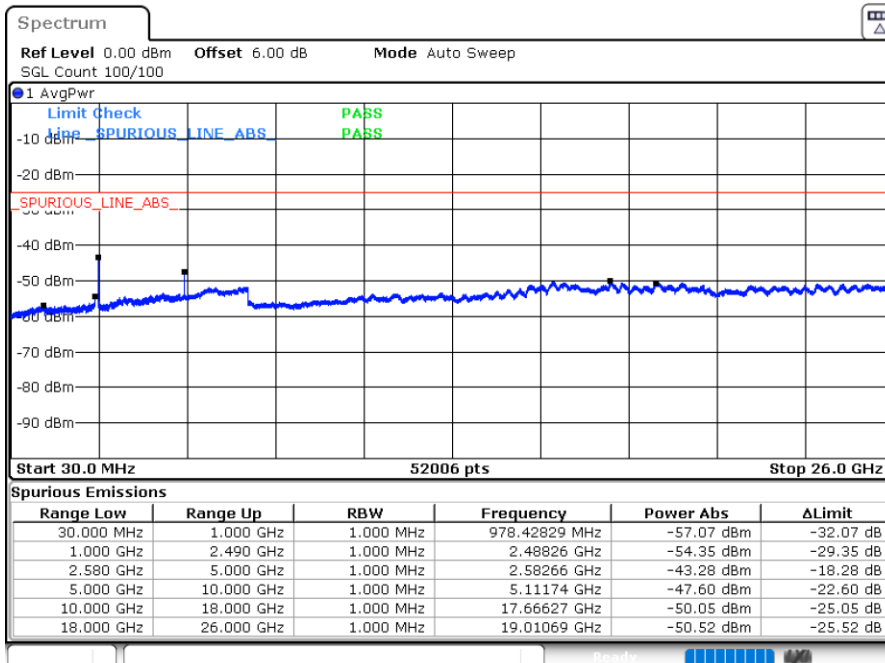


Date: 5.APR.2023 03:19:56



Date: 5.APR.2023 03:25:59

Highest Channel / QPSK



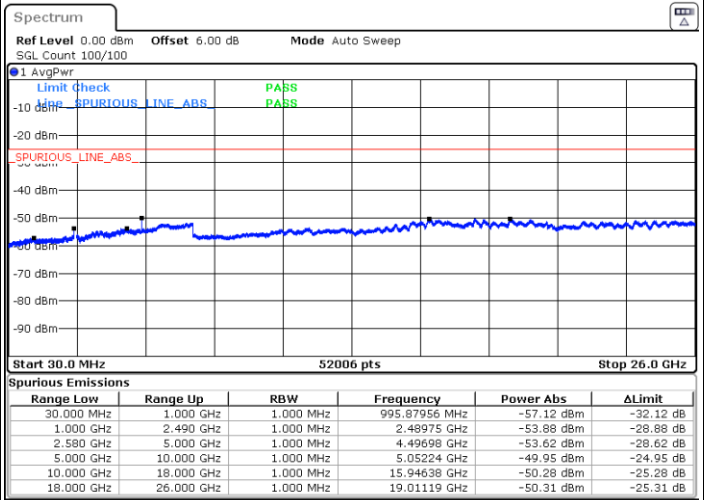
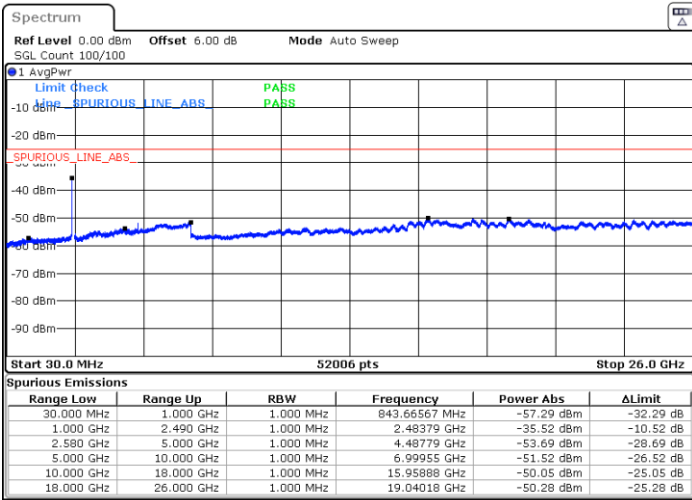
Date: 5.APR.2023 03:27:58



LTE Band 7 / 20MHz

Lowest Channel / QPSK

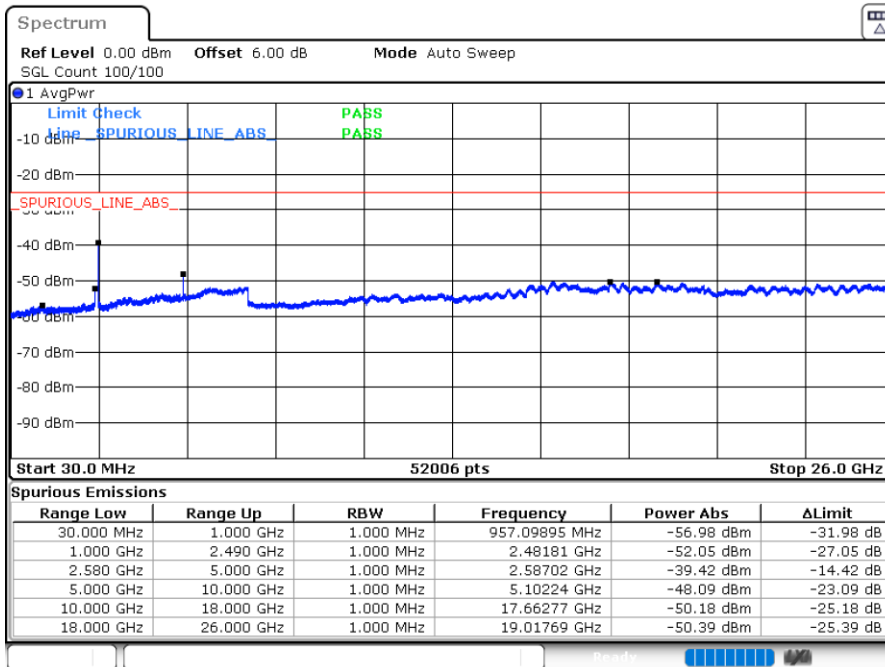
Middle Channel / QPSK



Date: 5.APR.2023 03:34:00

Date: 5.APR.2023 03:40:03

Highest Channel / QPSK



Date: 5.APR.2023 03:42:02



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0037	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0027	
20	Battery End Point	0.0013	

Note:

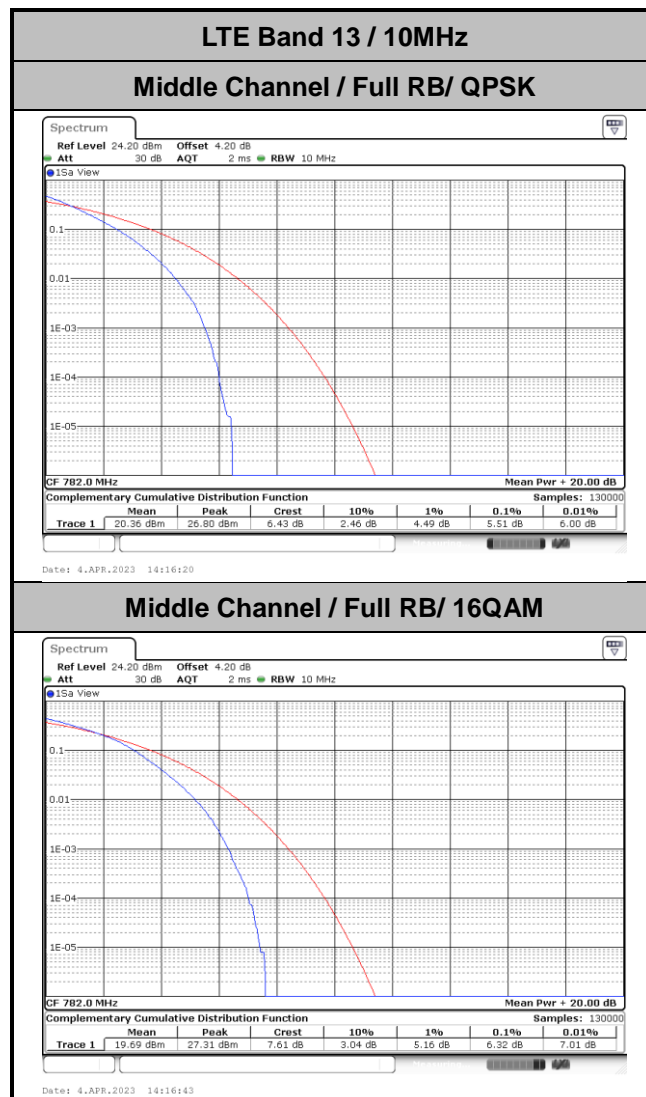
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

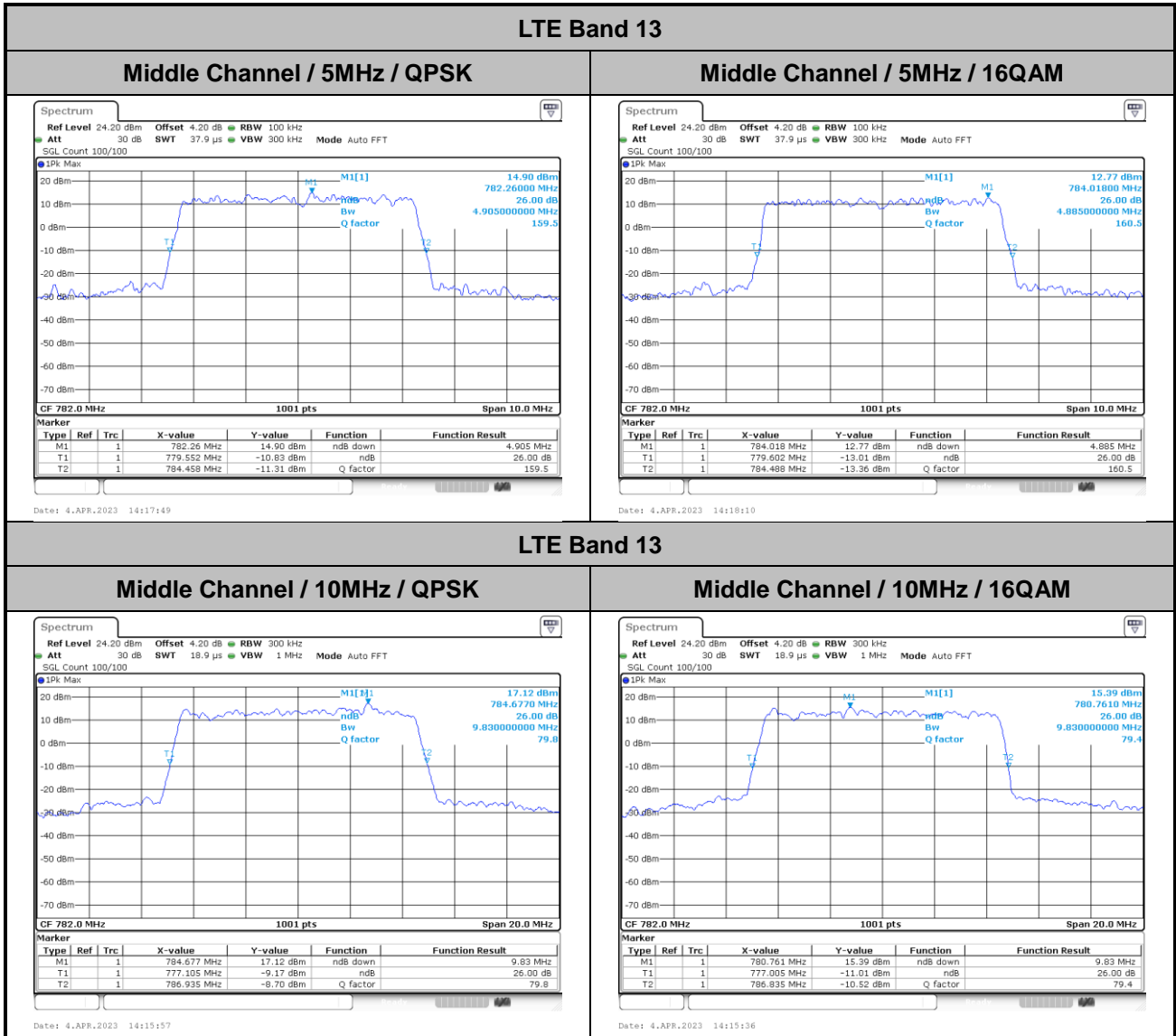
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	-	Limit: 13dB
RB Size	Full RB	Full RB	-	Result
Middle CH	5.51	6.32	-	PASS





26dB Bandwidth

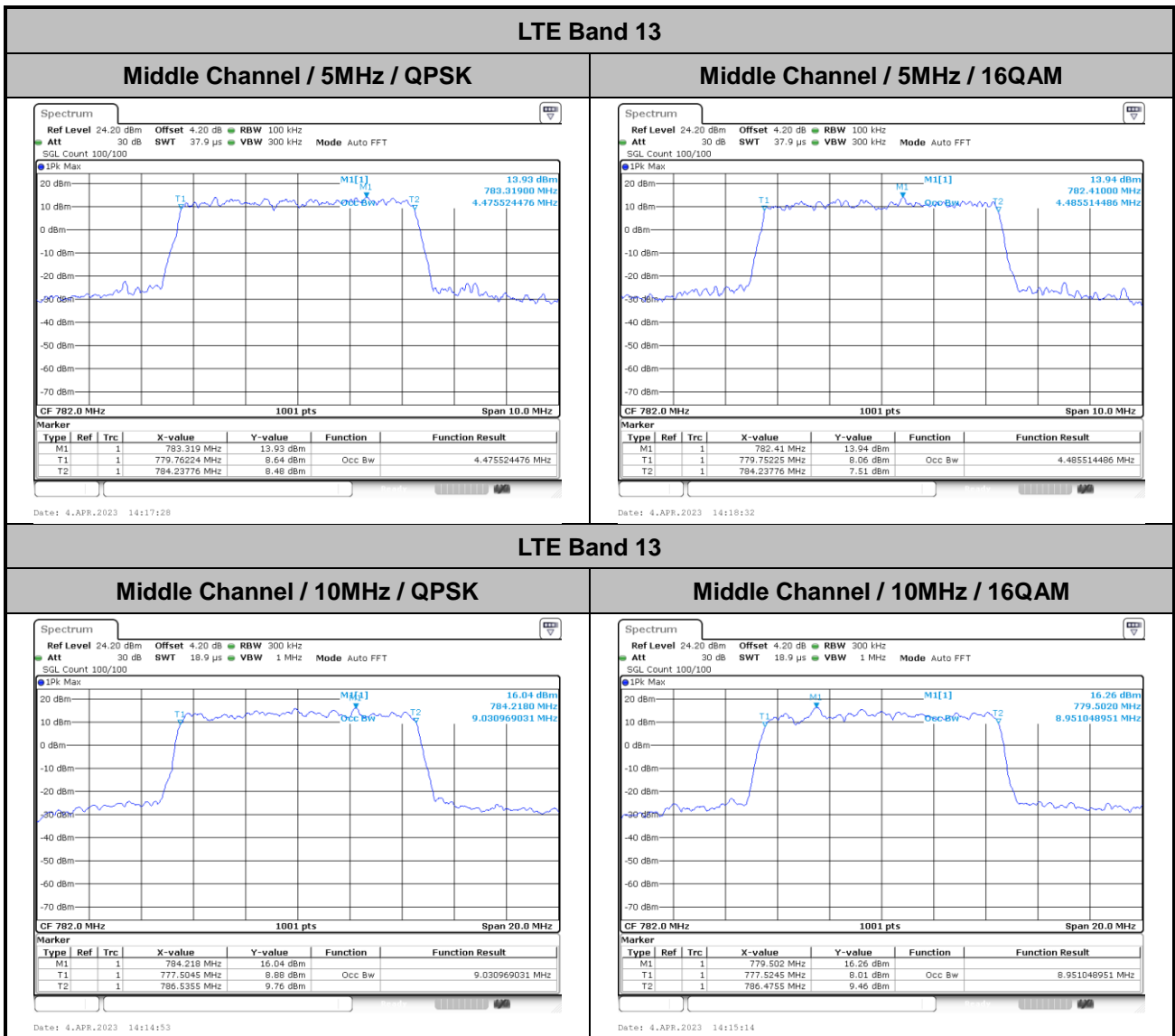
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.91	4.89
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.83





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.95

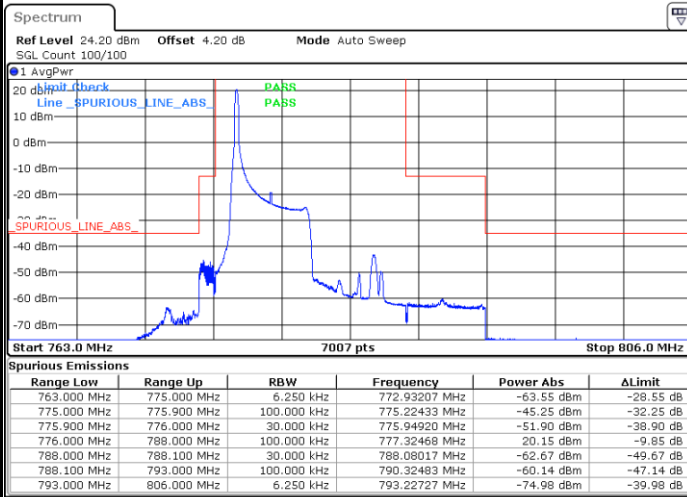




Conducted Band Edge

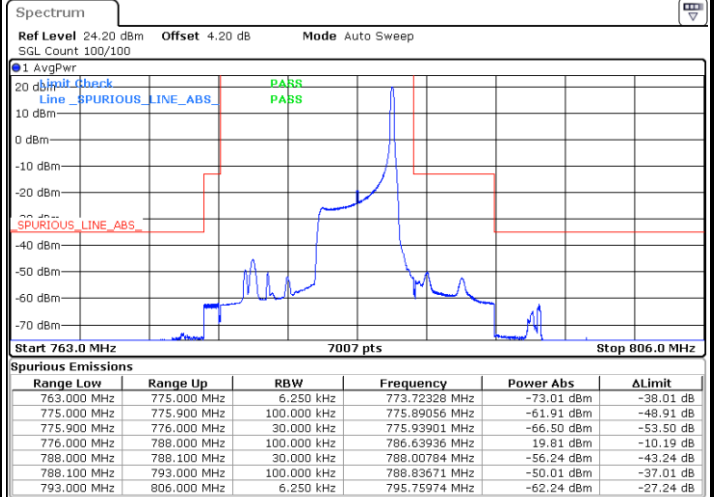
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



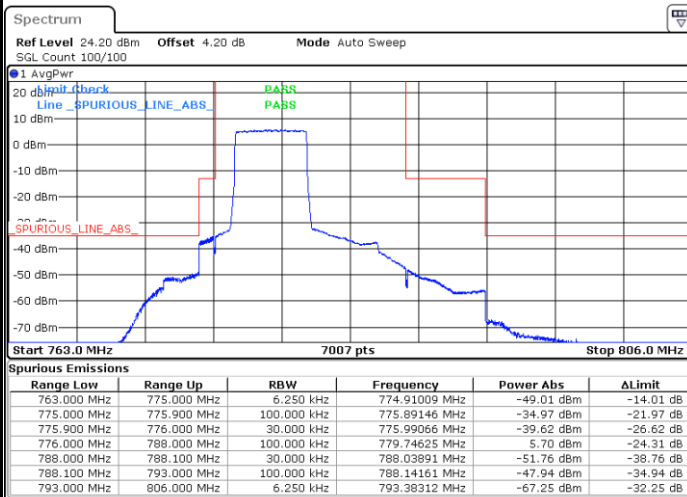
Date: 4.APR.2023 13:31:28

Highest Band Edge / 1 RB



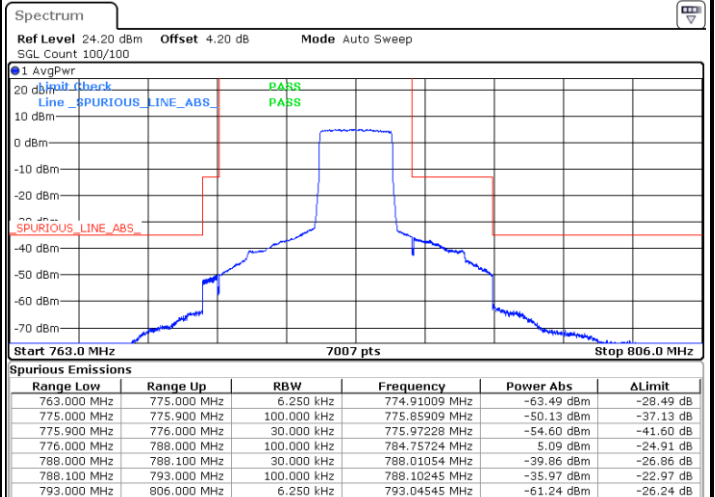
Date: 4.APR.2023 13:46:41

Lowest Band Edge / Full RB



Date: 4.APR.2023 13:40:46

Highest Band Edge / Full RB

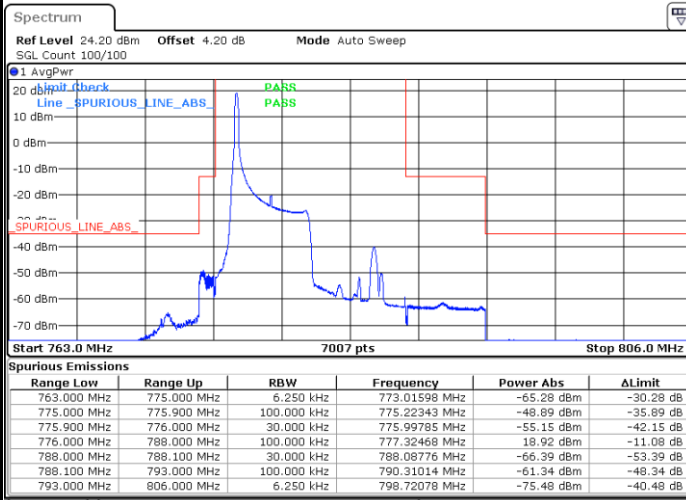


Date: 4.APR.2023 13:55:58



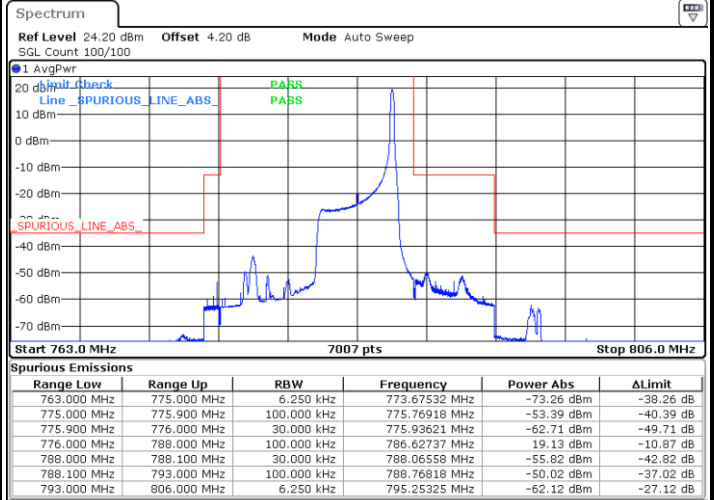
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



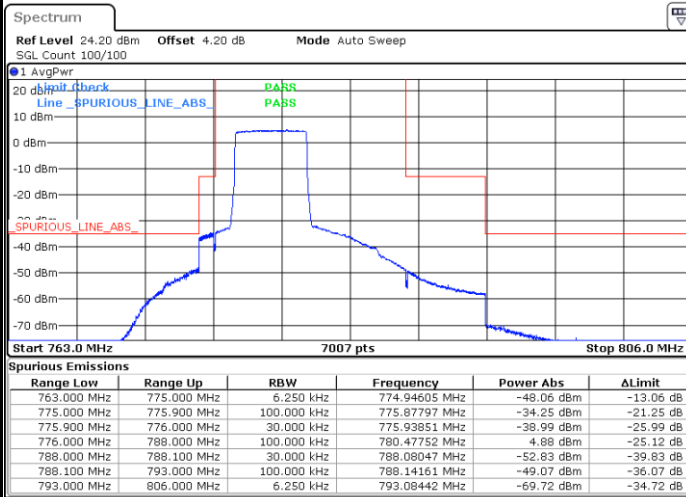
Date: 4.APR.2023 13:33:19

Highest Band Edge / 1 RB



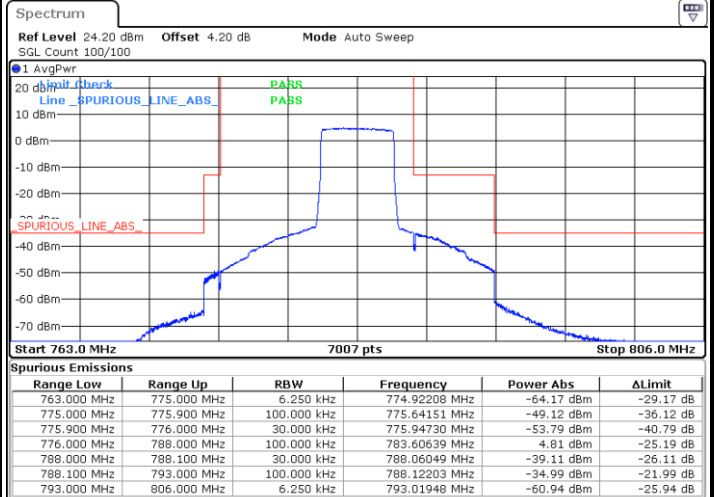
Date: 4.APR.2023 13:48:33

Lowest Band Edge / Full RB



Date: 4.APR.2023 13:38:54

Highest Band Edge / Full RB



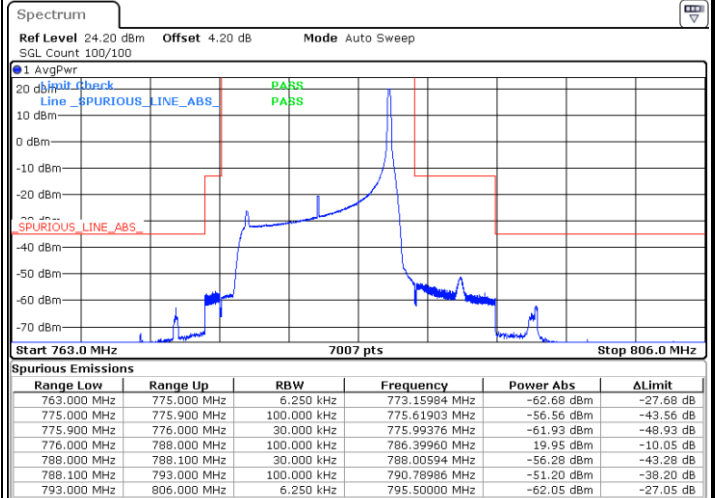
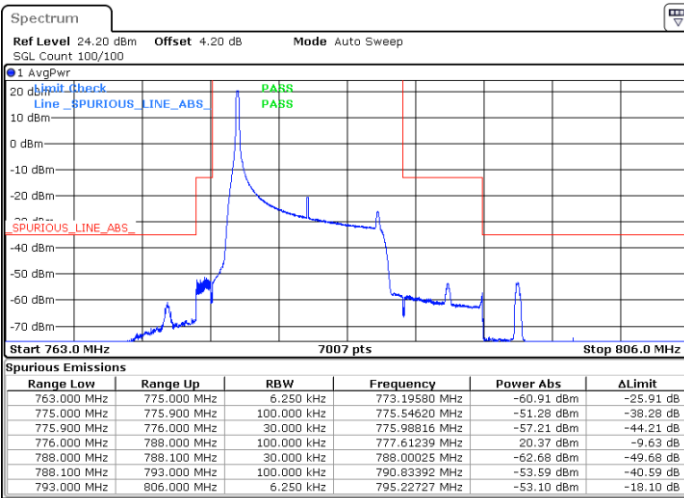
Date: 4.APR.2023 13:54:07



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

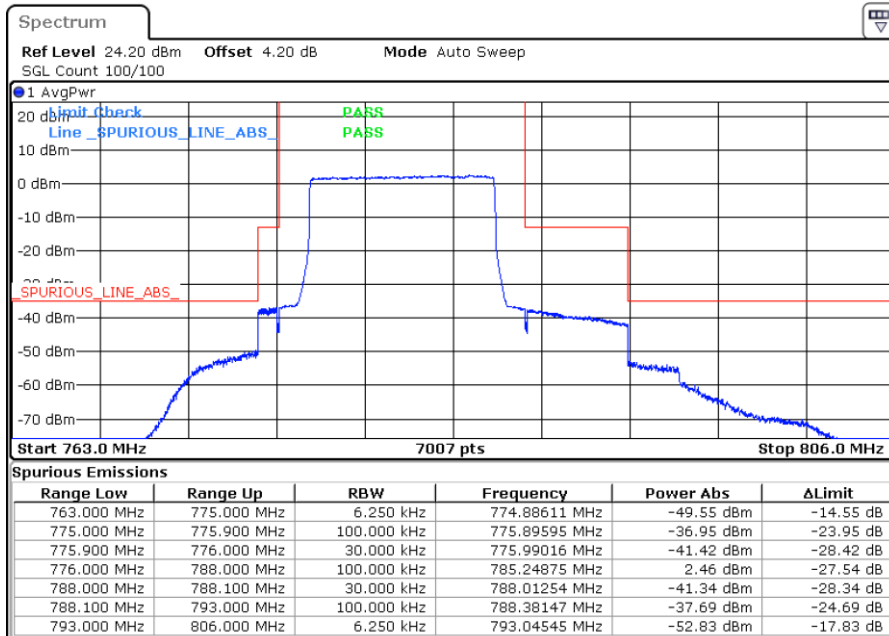
middle Band Edge / 1 RB



Date: 4.APR.2023 13:59:50

Date: 4.APR.2023 14:09:01

Middle Band Edge / Full RB

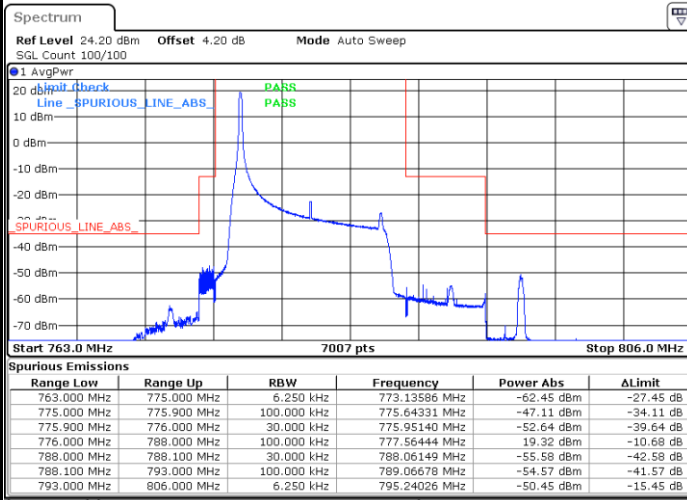


Date: 4.APR.2023 14:10:52



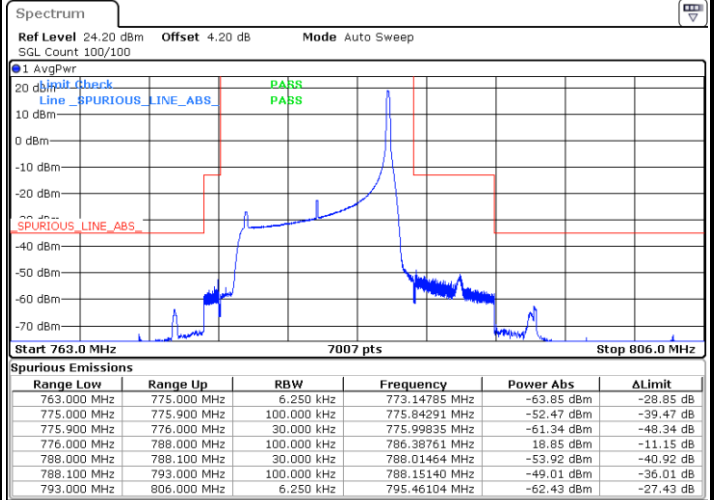
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



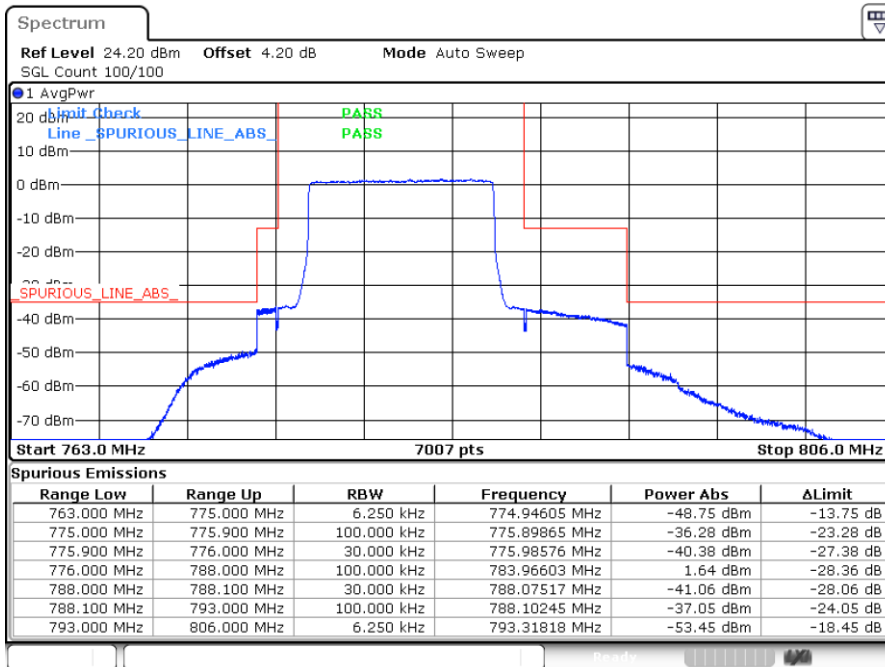
Date: 4.APR.2023 14:01:41

middle Band Edge / 1 RB



Date: 4.APR.2023 14:07:11

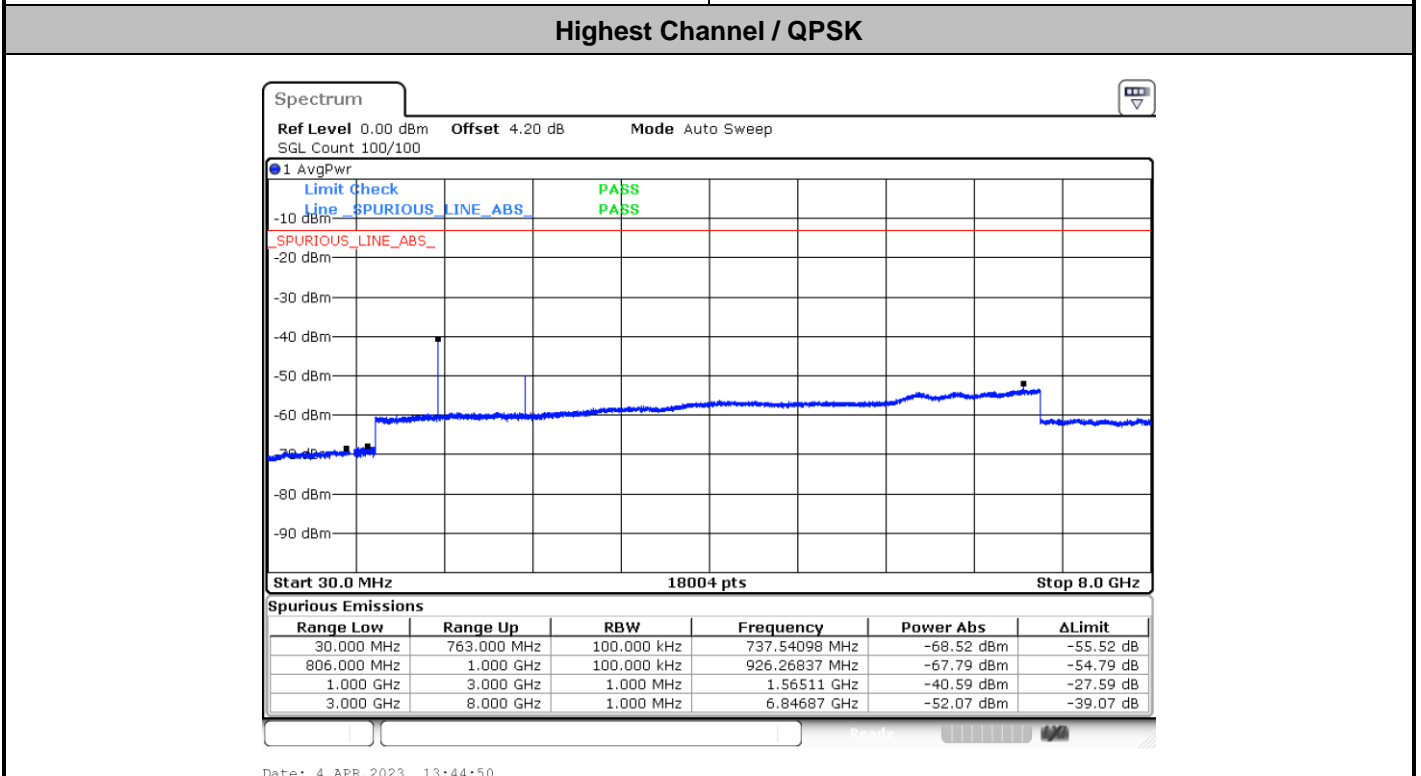
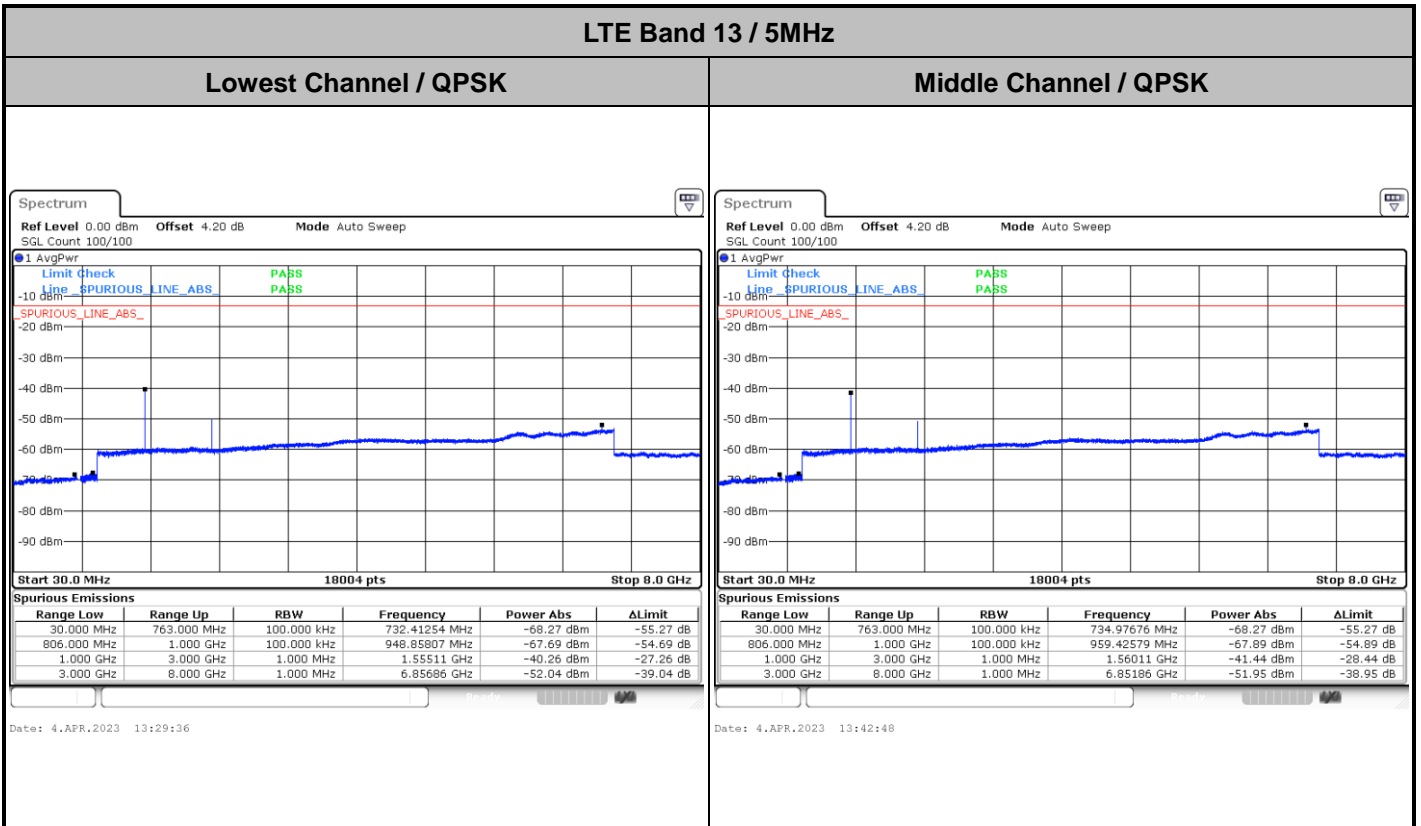
middle Band Edge / Full RB



Date: 4.APR.2023 14:12:42



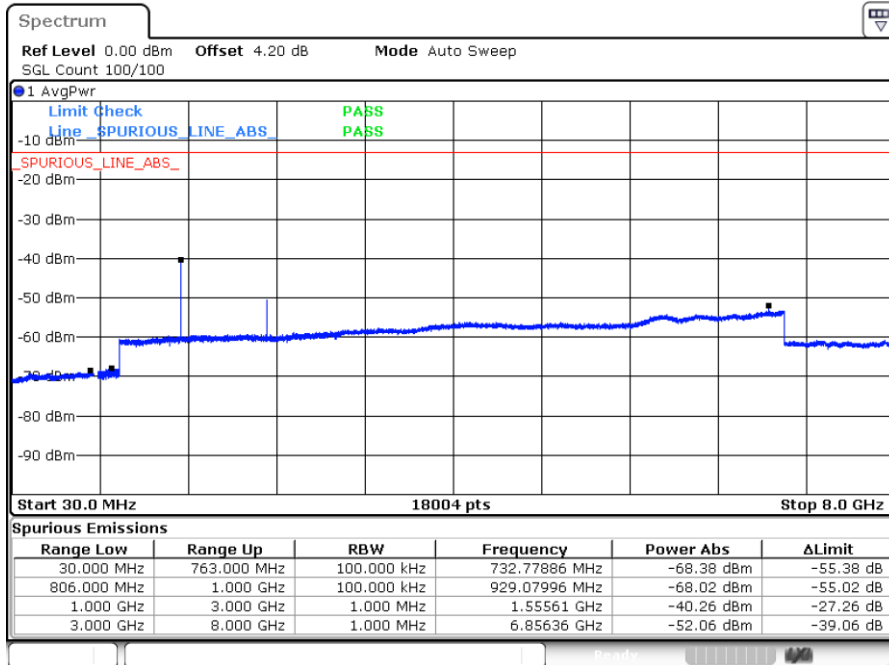
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 4.APR.2023 13:58:00



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	0.0025	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0036	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0051	
20	Maximum Voltage	0.0044	
20	Normal Voltage	0.0039	
20	Battery End Point	0.0026	

Note:

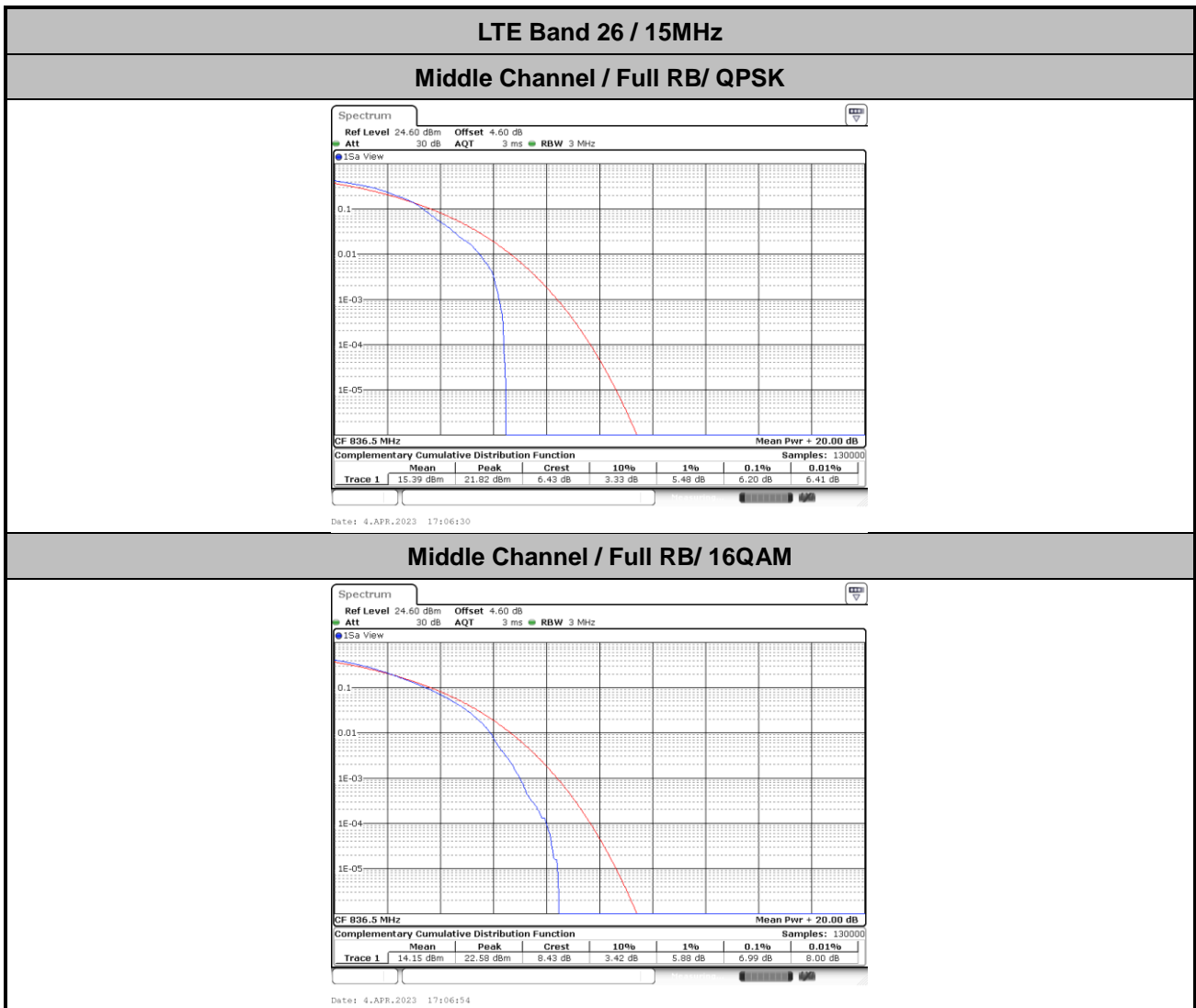
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26

Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz			
Mod.	QPSK	16QAM	-	Limit: 13dB
RB Size	Full RB	Full RB	-	Result
Middle CH	6.20	6.99	-	PASS





26dB Bandwidth

Mode	LTE Band 26 : 26dB BW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.75	14.36
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.85	9.87
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.89	4.91
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.07	3.07
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.24	1.24