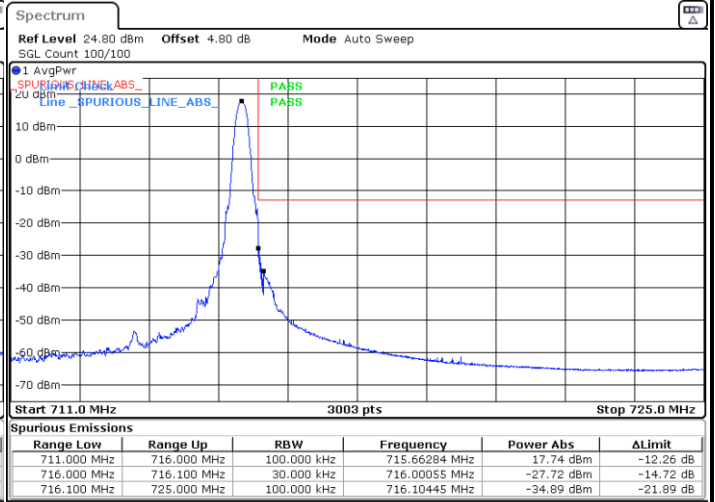
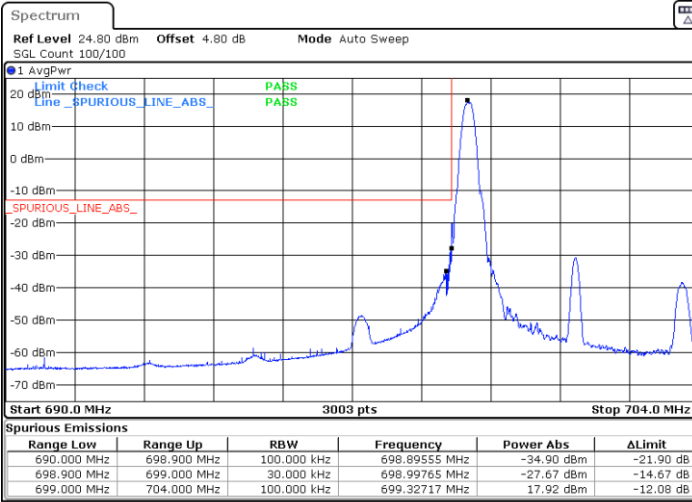




LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

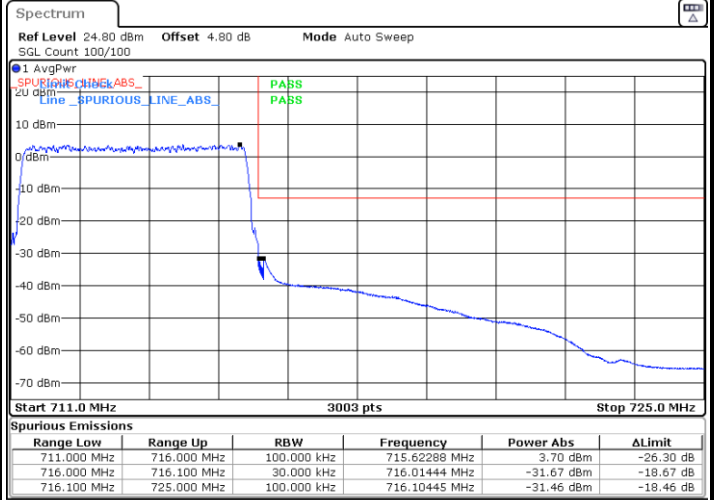
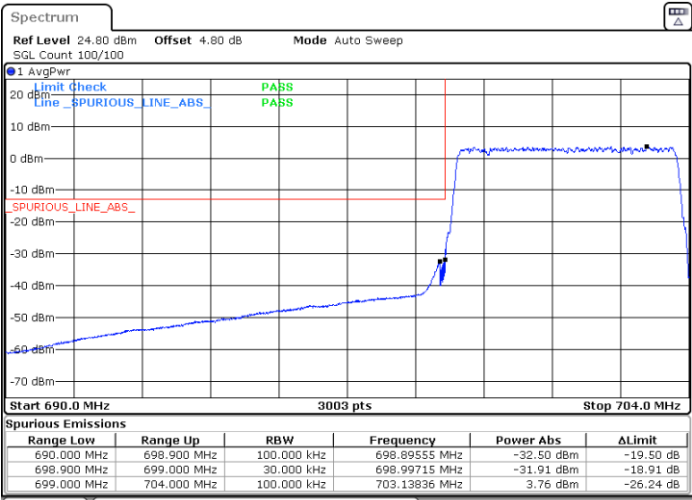


Date: 17.APR.2023 11:24:57

Date: 17.APR.2023 11:48:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



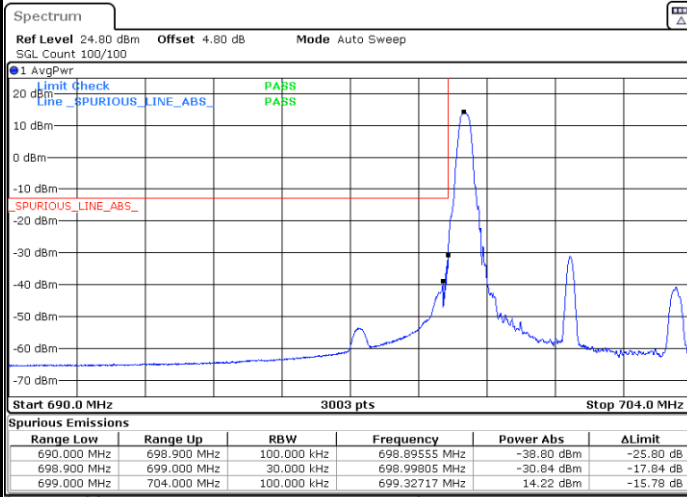
Date: 17.APR.2023 11:37:17

Date: 17.APR.2023 11:53:47



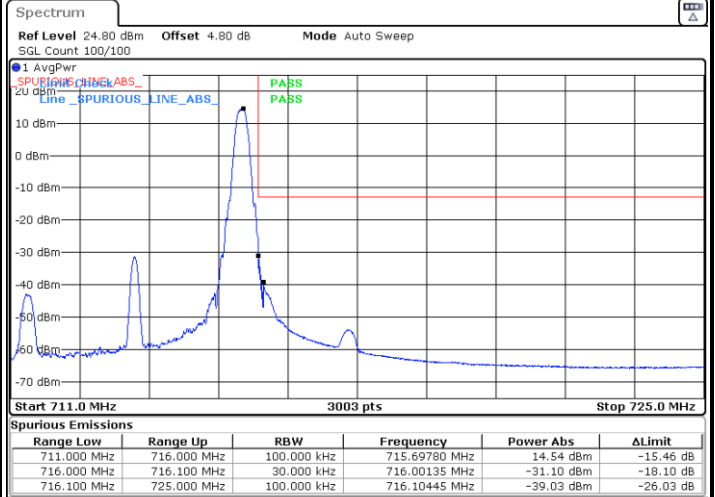
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



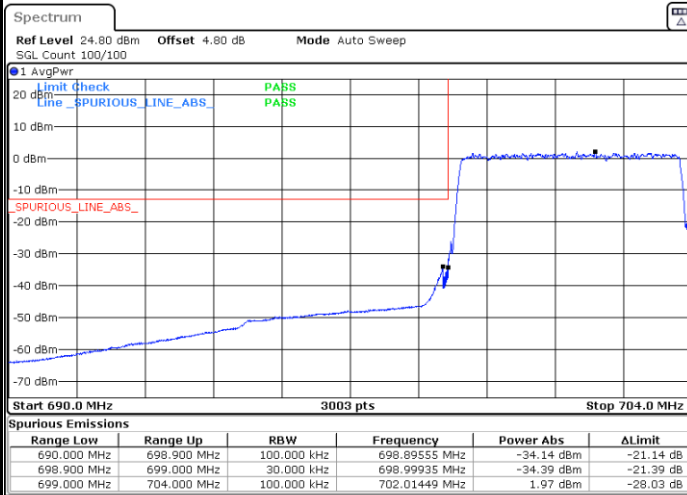
Date: 17.APR.2023 11:26:38

Highest Band Edge / 1 RB



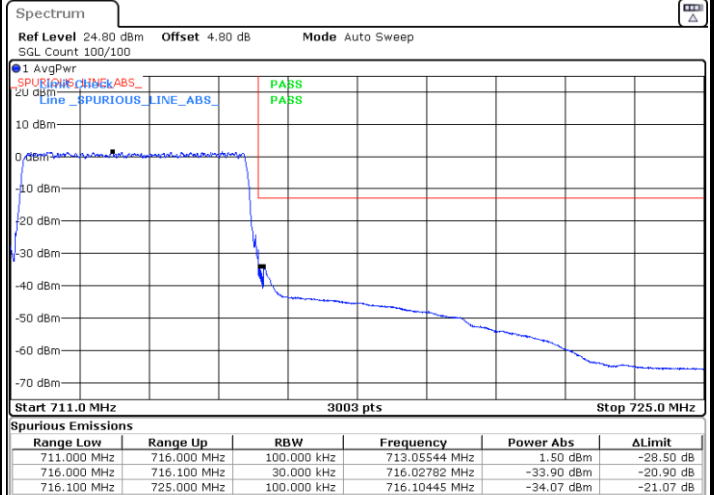
Date: 17.APR.2023 11:50:21

Lowest Band Edge / Full RB



Date: 17.APR.2023 11:35:34

Highest Band Edge / Full RB

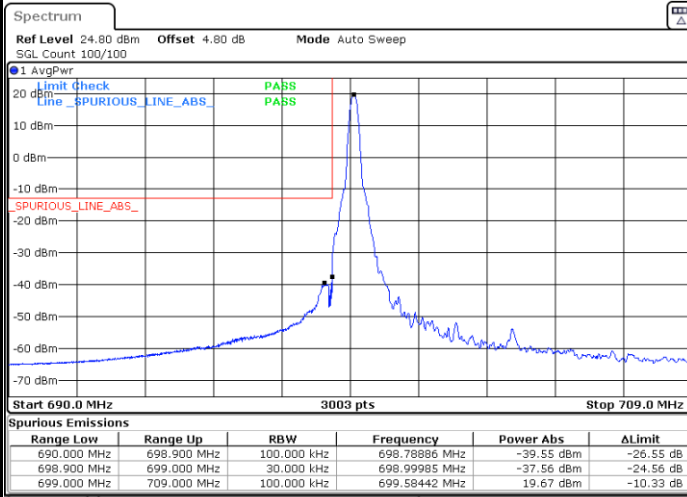


Date: 17.APR.2023 11:52:04

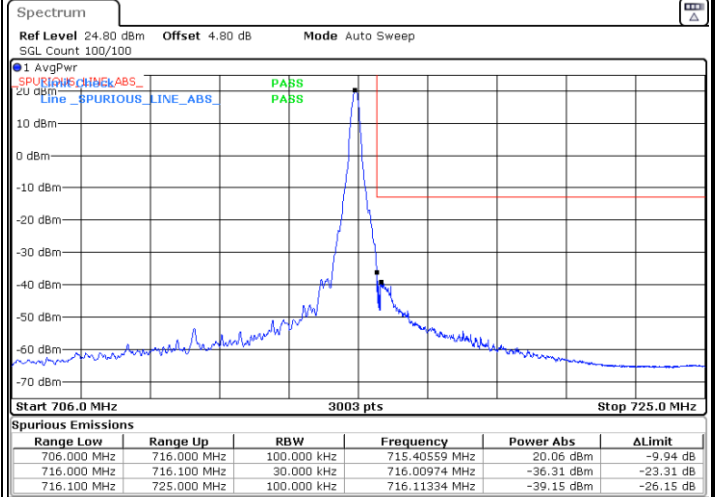


LTE Band 12 / 10MHz / QPSK

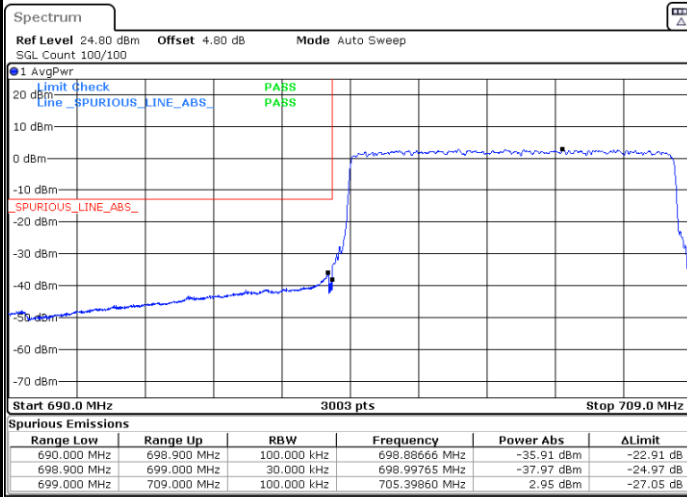
Lowest Band Edge / 1 RB



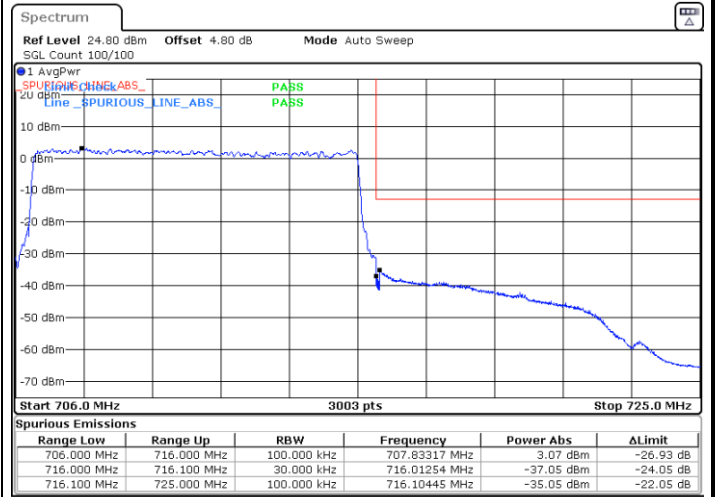
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



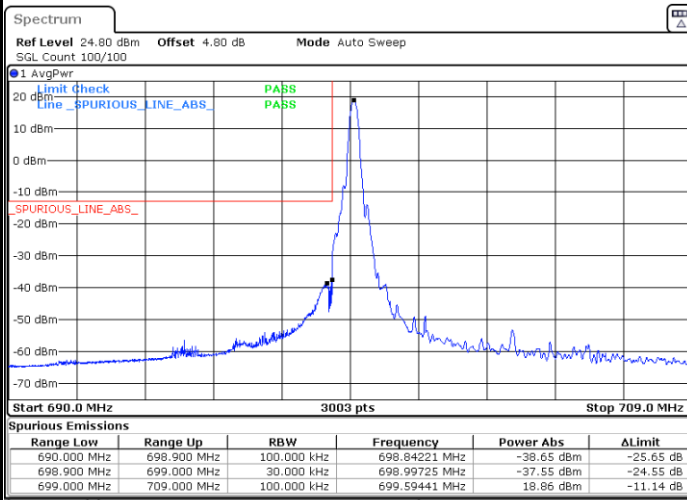
Highest Band Edge / Full RB





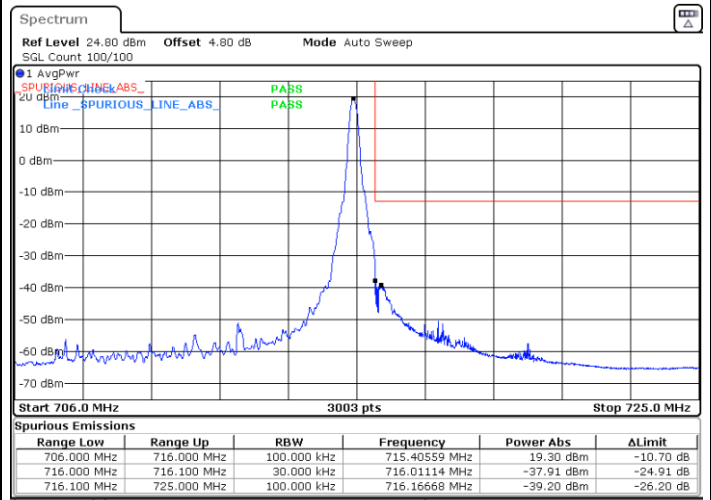
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



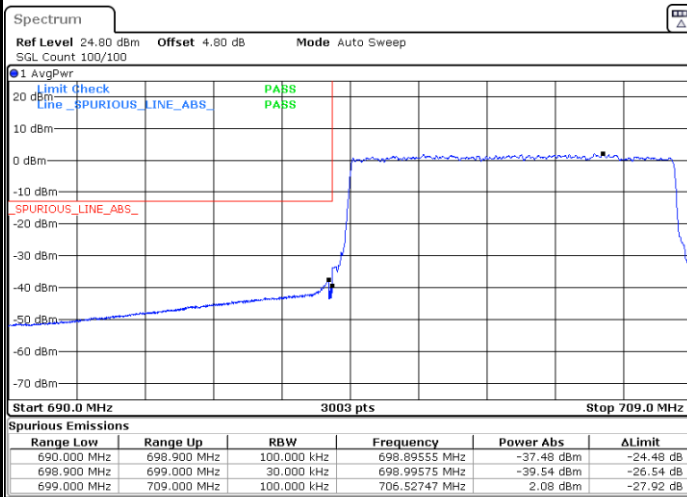
Date: 17.APR.2023 12:02:00

Highest Band Edge / 1 RB



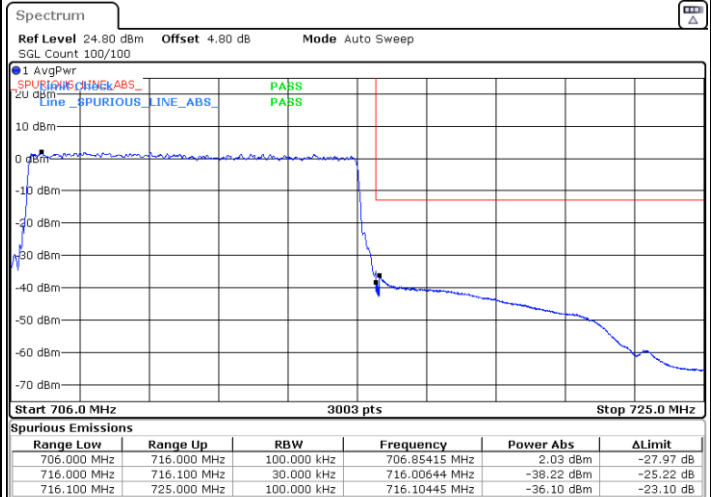
Date: 17.APR.2023 13:23:43

Lowest Band Edge / Full RB



Date: 17.APR.2023 13:15:40

Highest Band Edge / Full RB

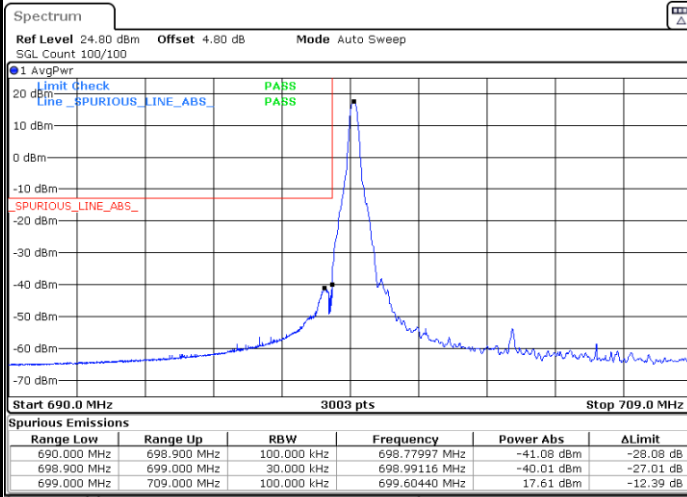


Date: 17.APR.2023 13:32:09



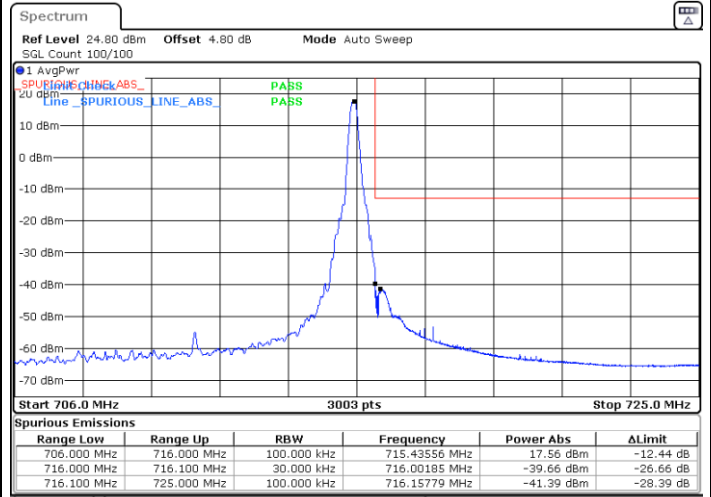
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



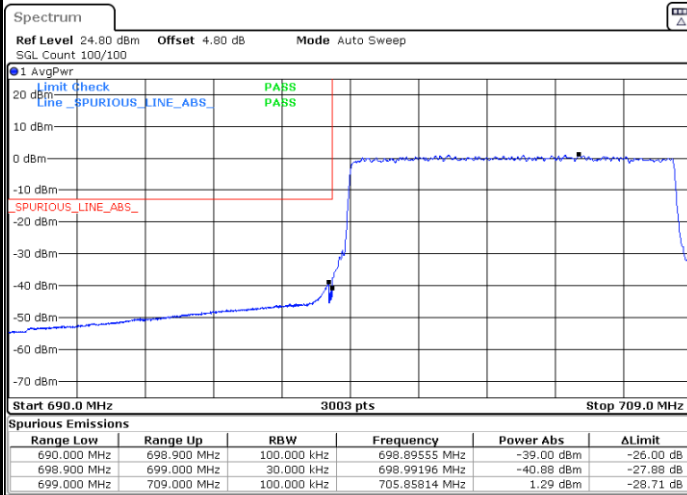
Date: 17.APR.2023 12:03:41

Highest Band Edge / 1 RB



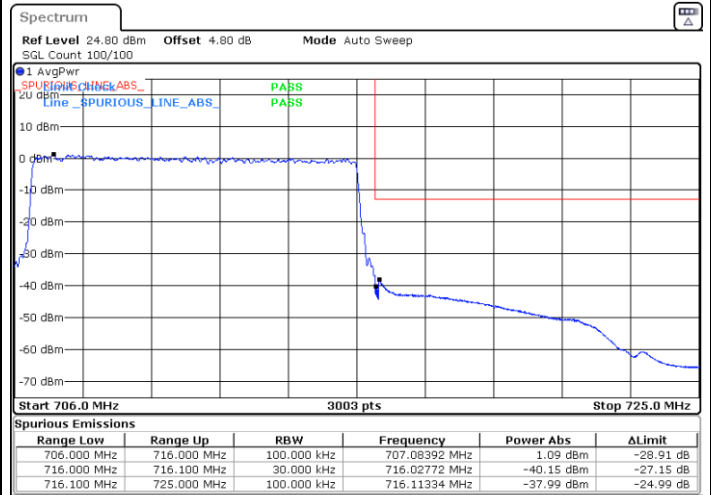
Date: 17.APR.2023 13:25:23

Lowest Band Edge / Full RB



Date: 17.APR.2023 13:14:00

Highest Band Edge / Full RB

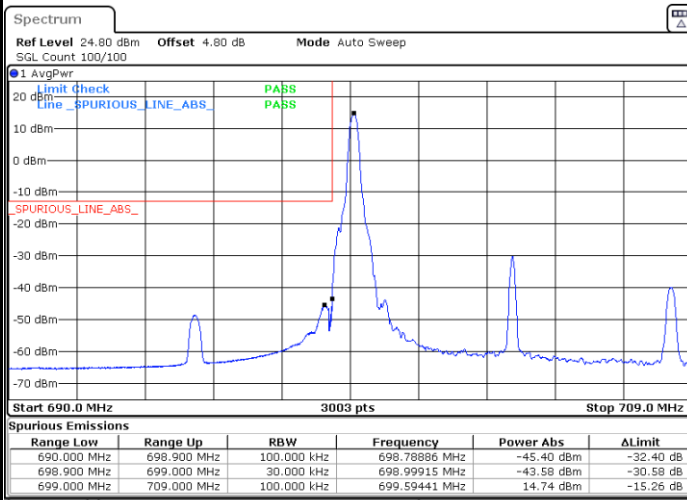


Date: 17.APR.2023 13:30:29



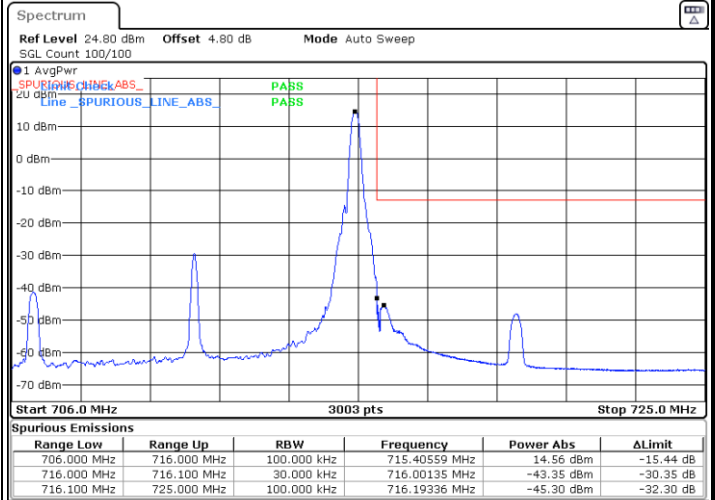
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



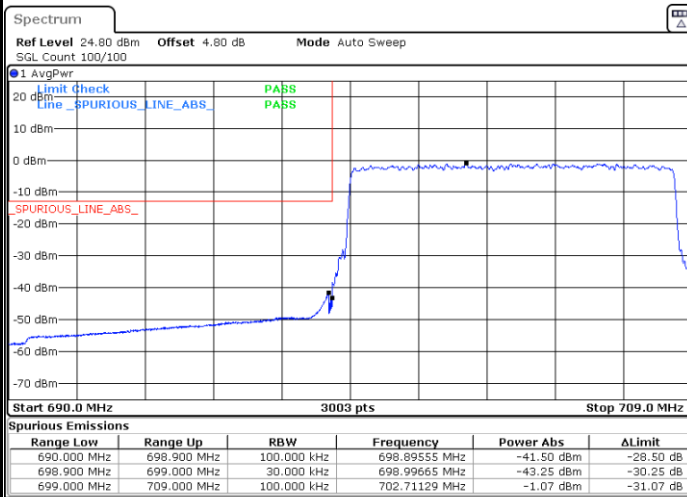
Date: 17.APR.2023 12:05:22

Highest Band Edge / 1 RB



Date: 17.APR.2023 13:27:03

Lowest Band Edge / Full RB



Date: 17.APR.2023 13:38:42

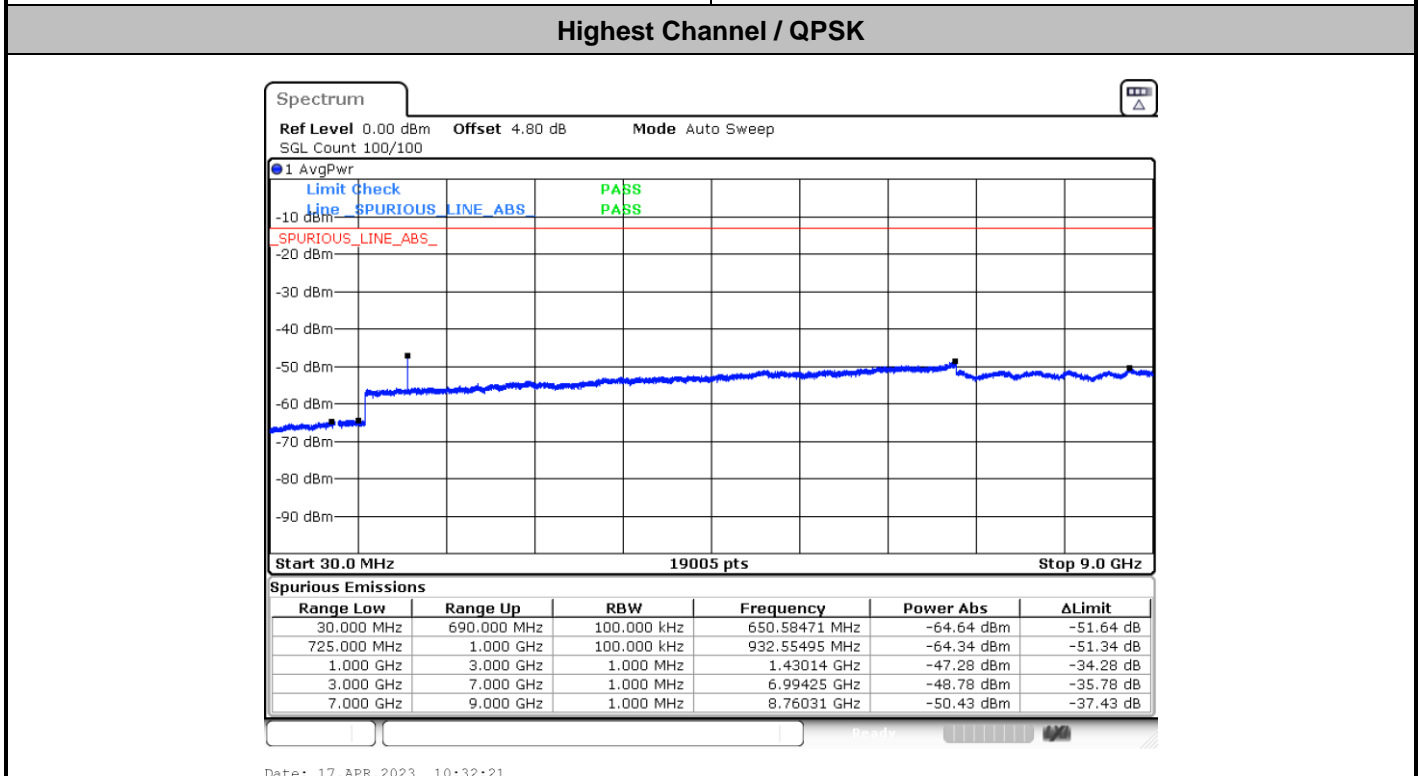
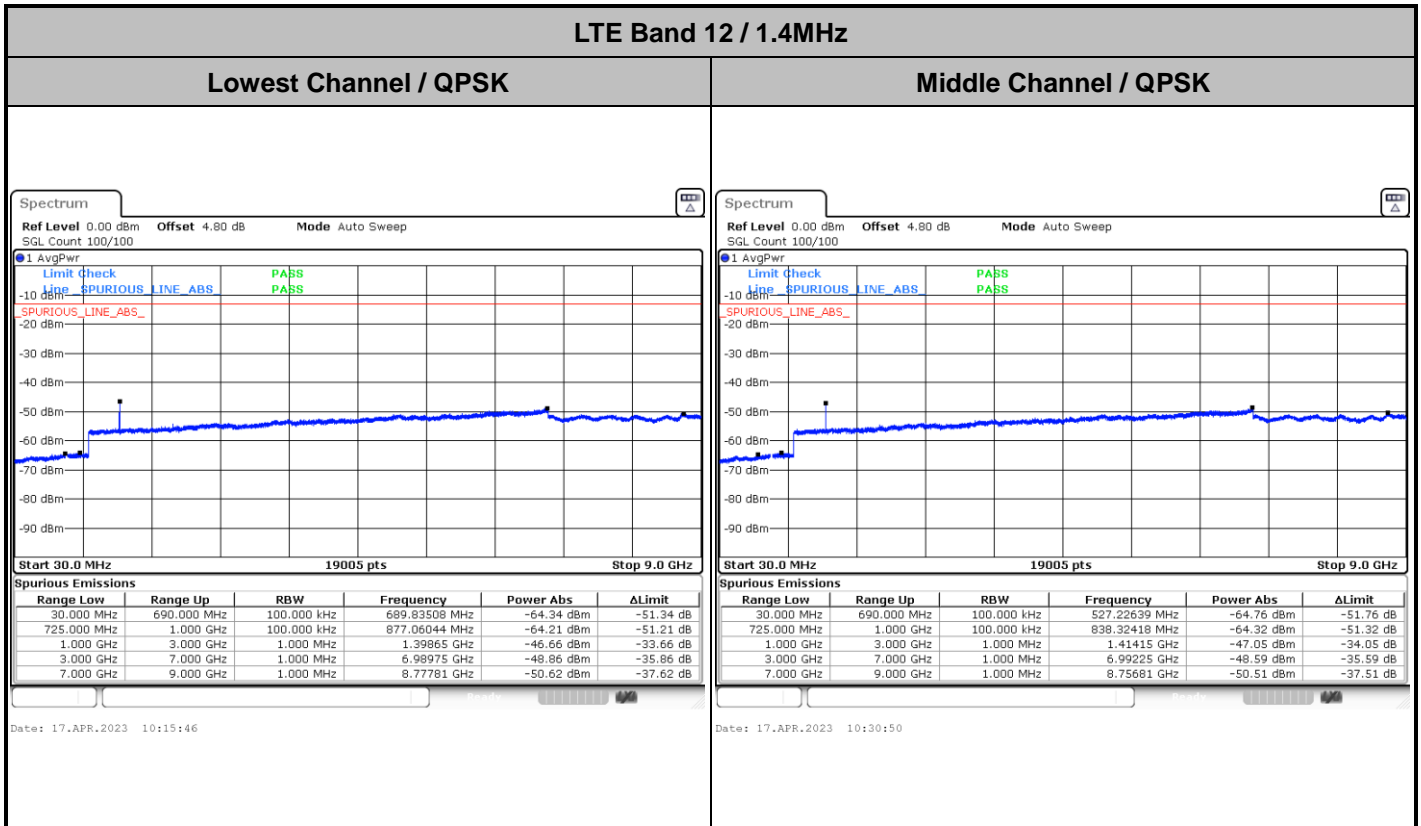
Highest Band Edge / Full RB



Date: 17.APR.2023 13:28:46



Conducted Spurious Emission

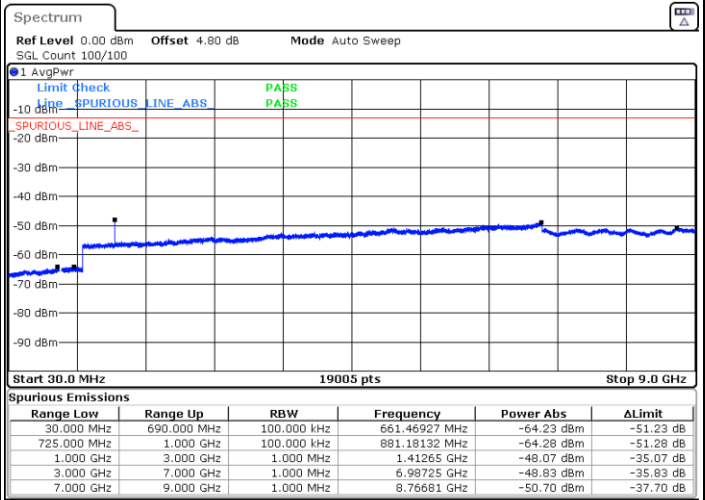
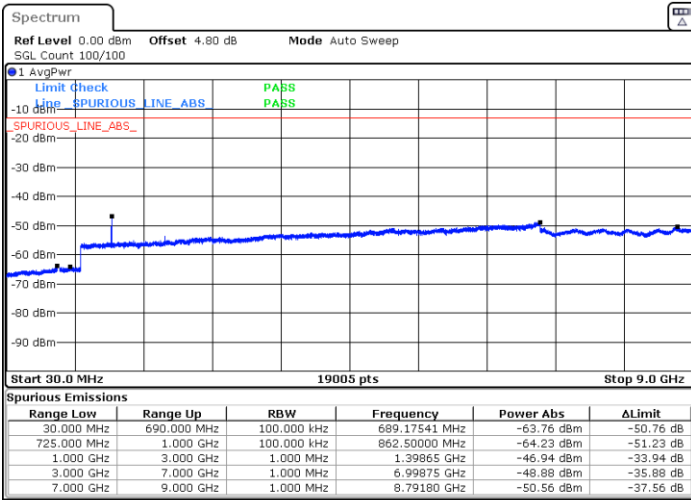




LTE Band 12 / 3MHz

Lowest Channel / QPSK

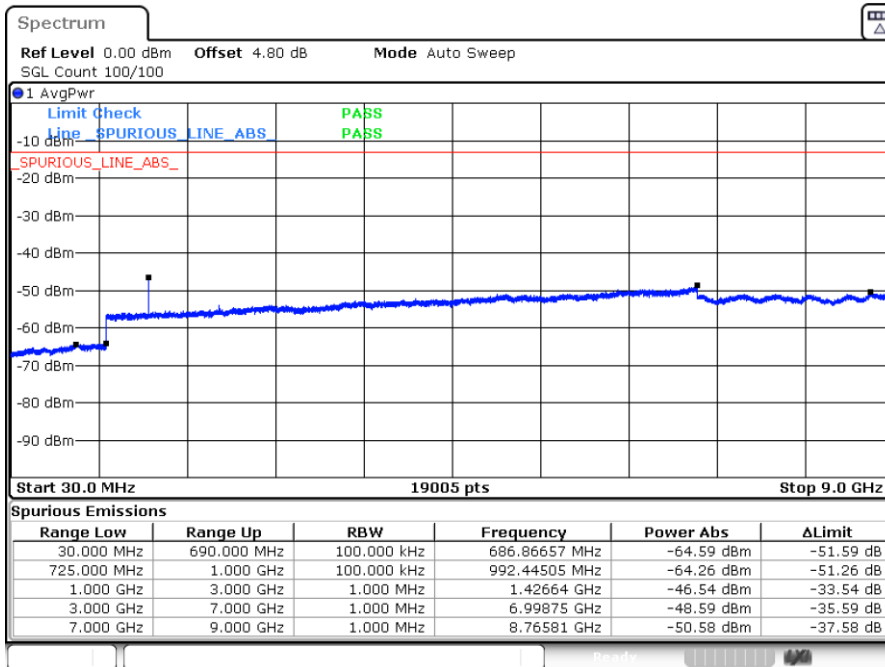
Middle Channel / QPSK



Date: 17.APR.2023 10:47:24

Date: 17.APR.2023 11:03:25

Highest Channel / QPSK



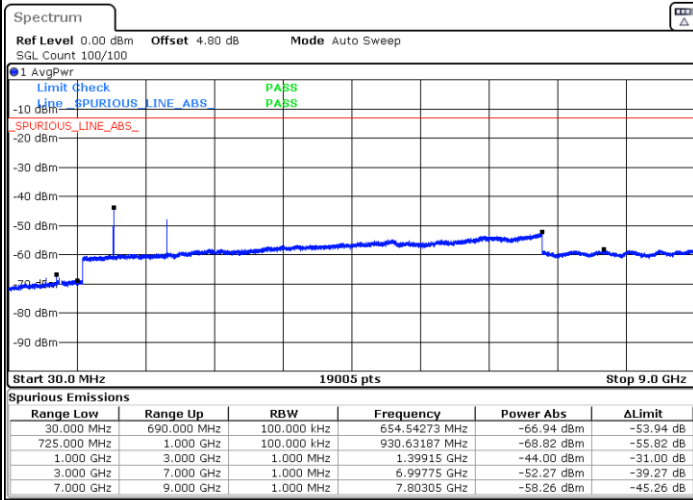
Date: 17.APR.2023 11:04:56



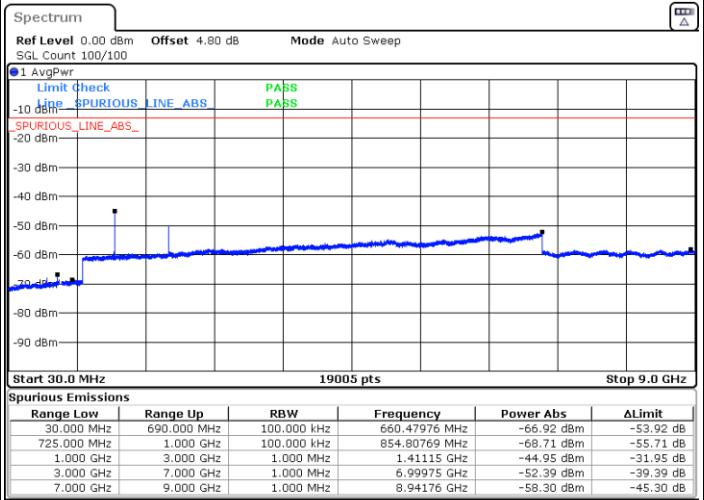
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

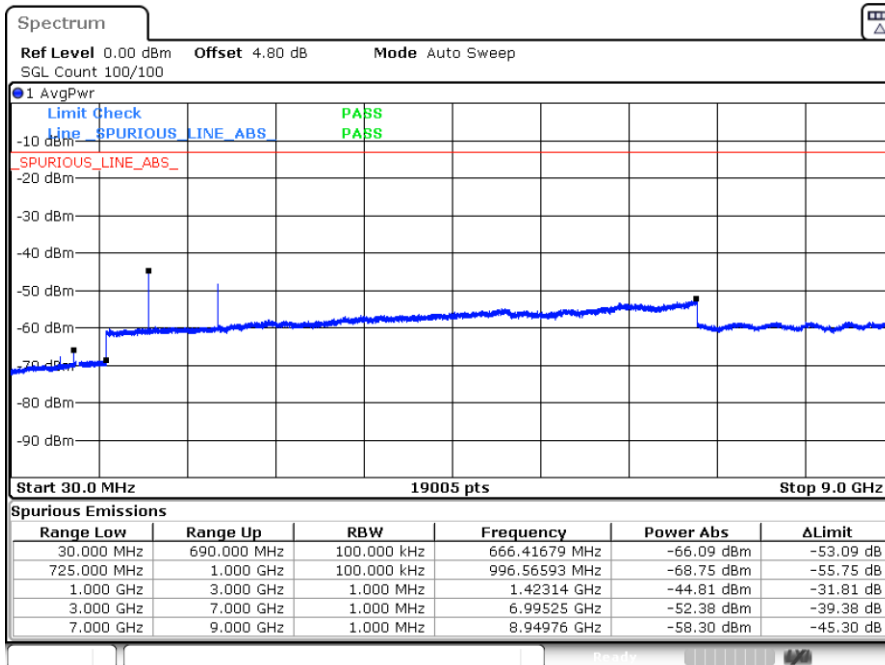


Date: 17.APR.2023 11:19:56



Date: 17.APR.2023 11:42:08

Highest Channel / QPSK



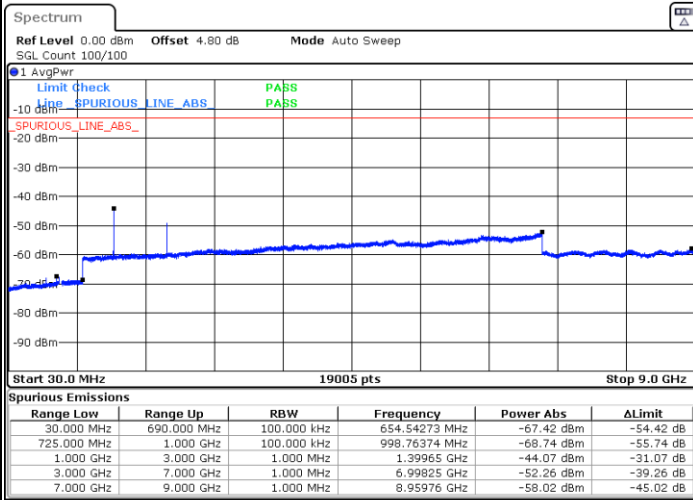
Date: 17.APR.2023 11:43:40



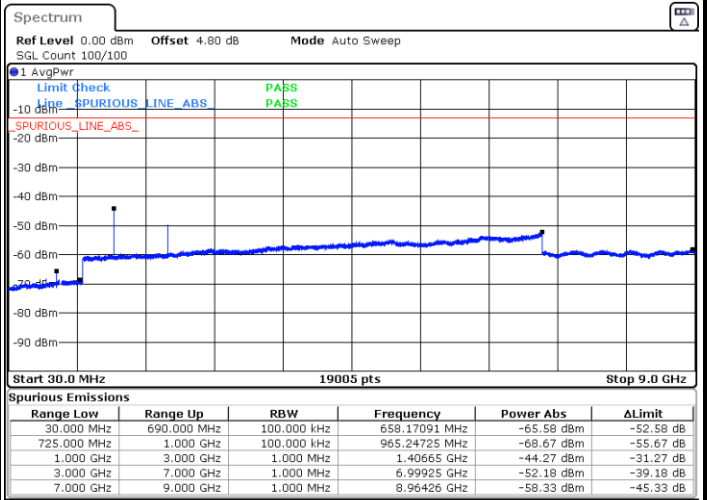
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

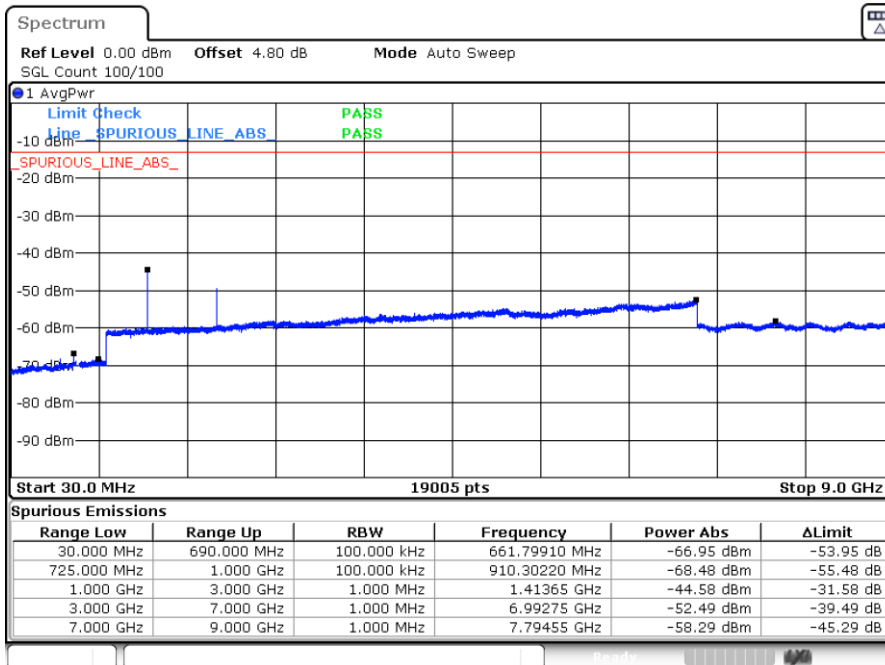


Date: 17.APR.2023 11:58:40



Date: 17.APR.2023 13:18:52

Highest Channel / QPSK



Date: 17.APR.2023 13:20:23



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	0.0022	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0014	

Note:

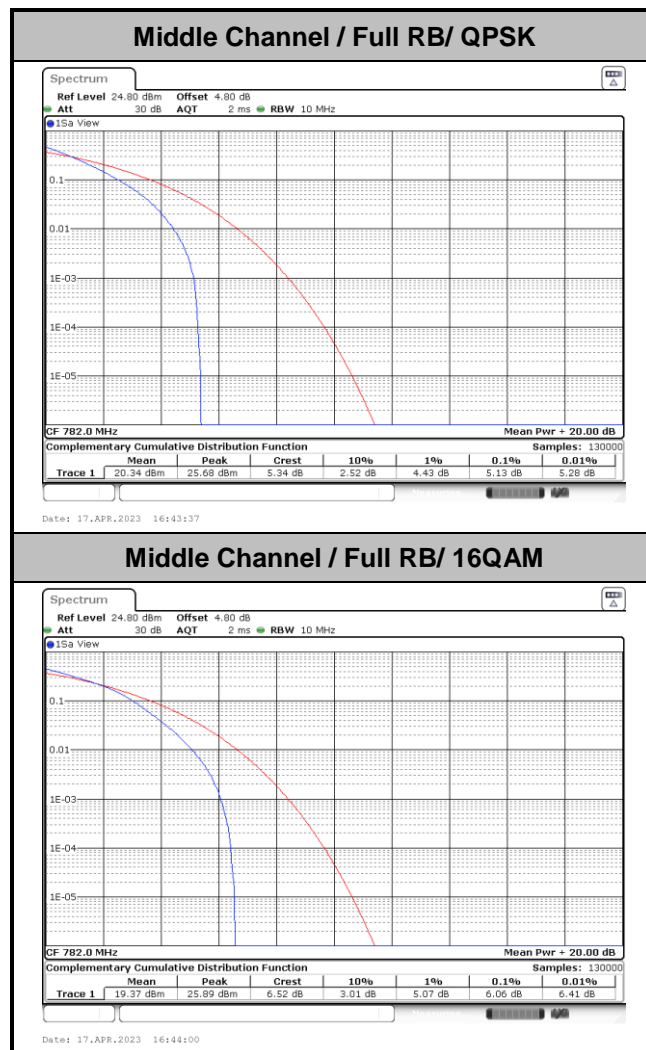
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

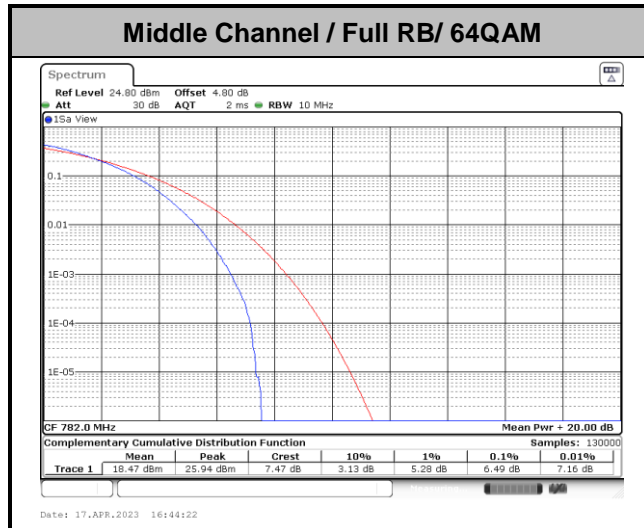


LTE Band 13

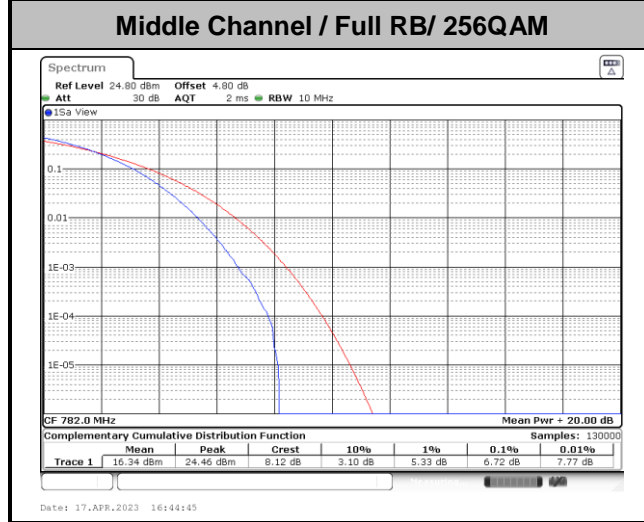
Peak-to-Average Ratio

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	5.13	6.06	6.49	6.72	PASS





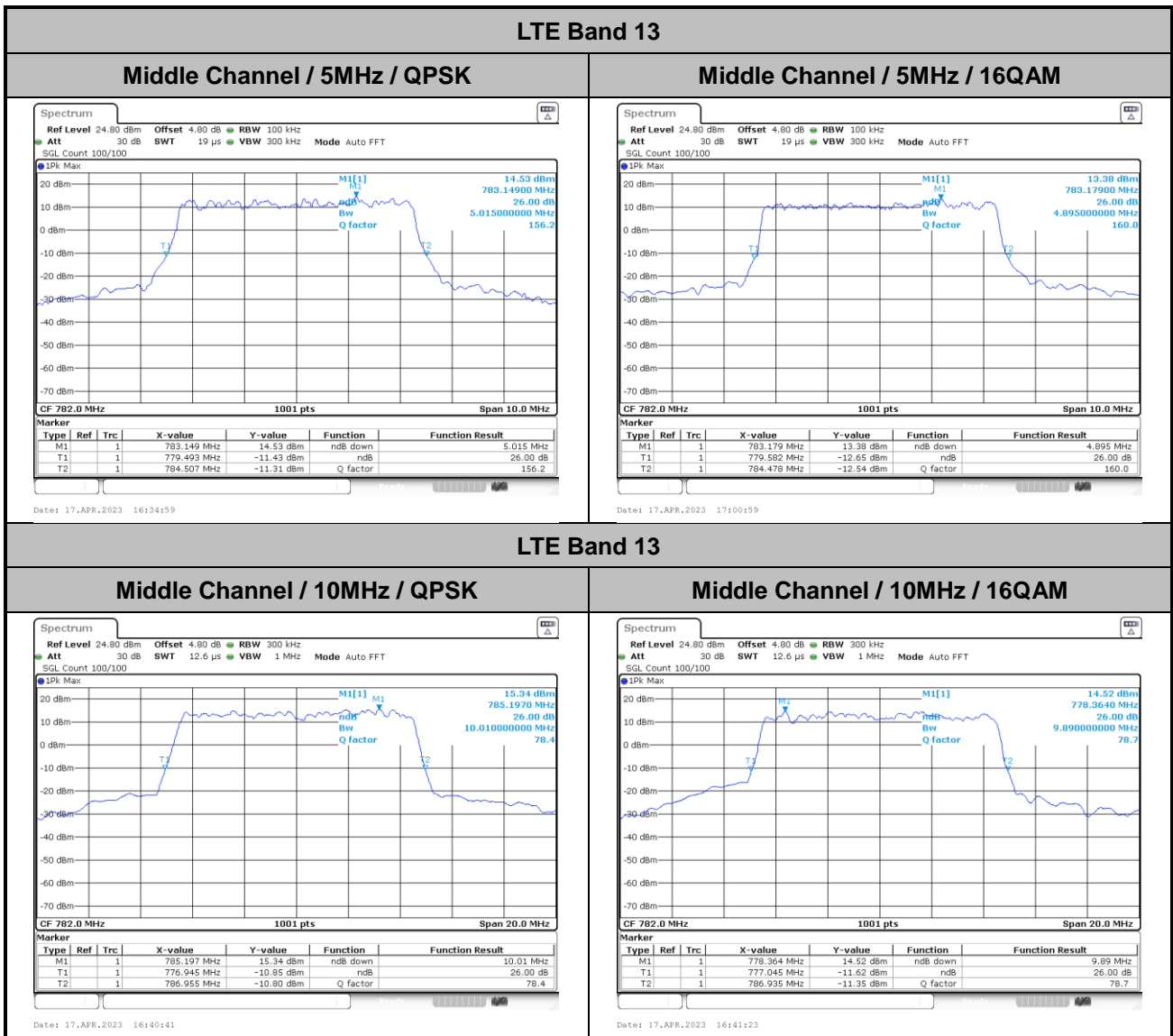
LTE Band 13 / 10MHz





26dB Bandwidth

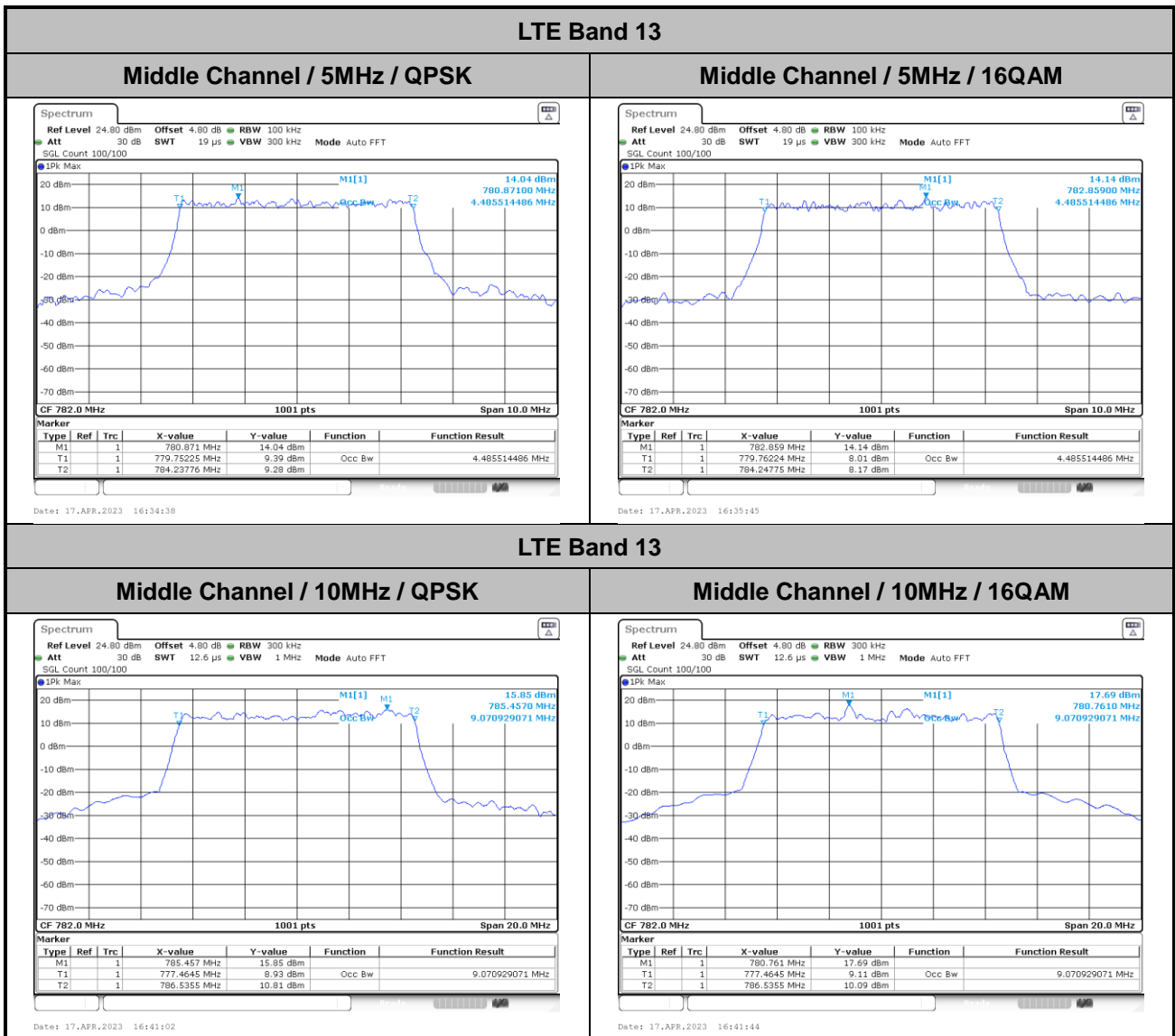
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.02	4.90
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	10.01	9.89





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.07



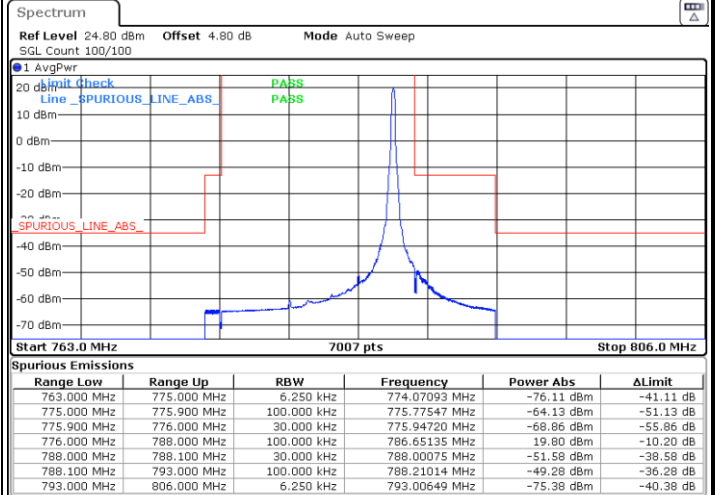
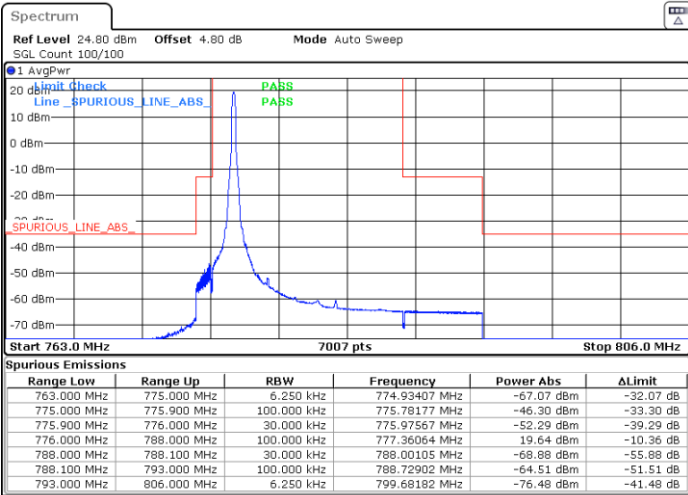


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

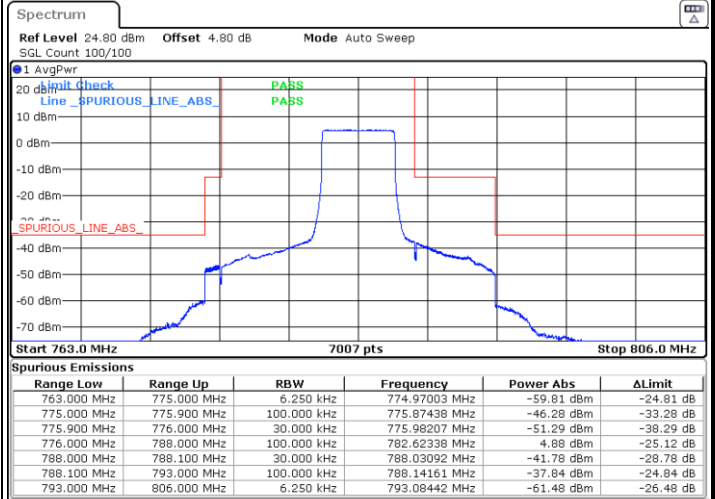
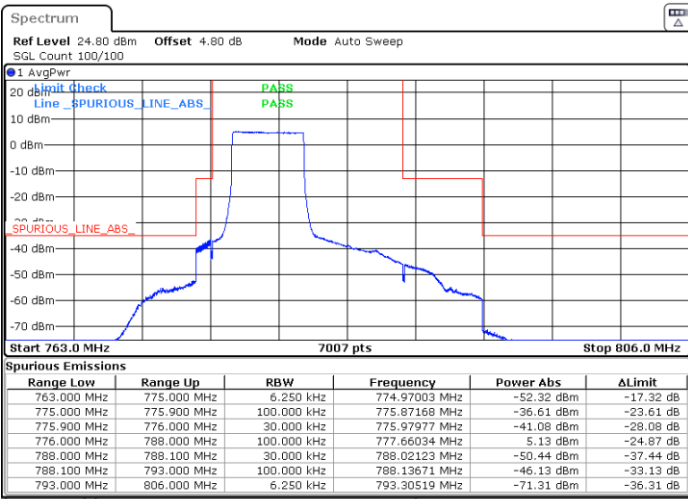
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

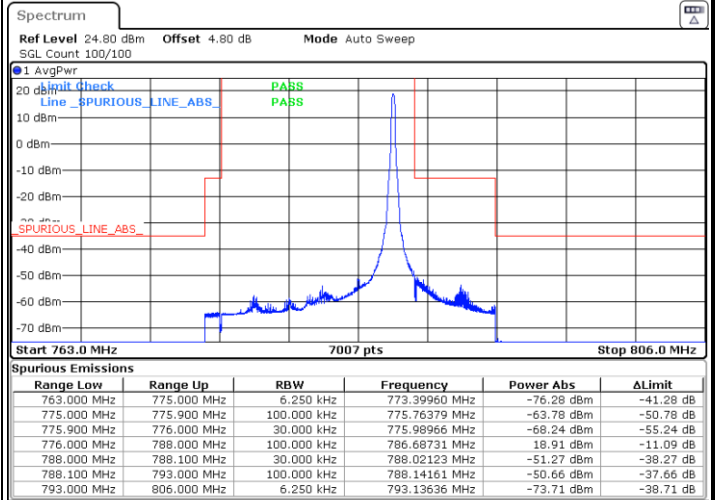
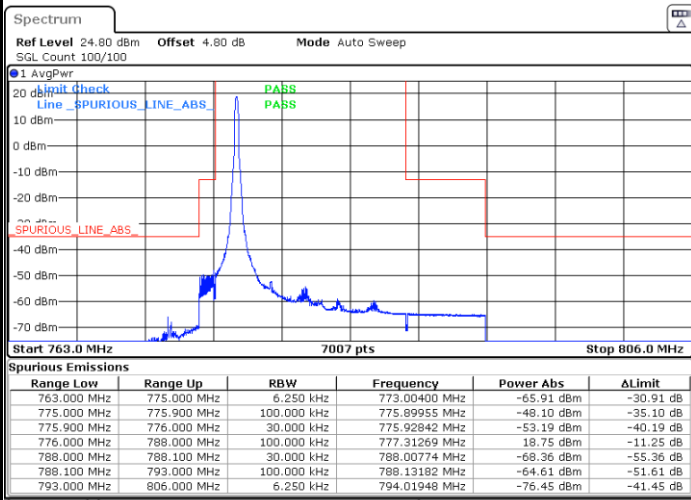




LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

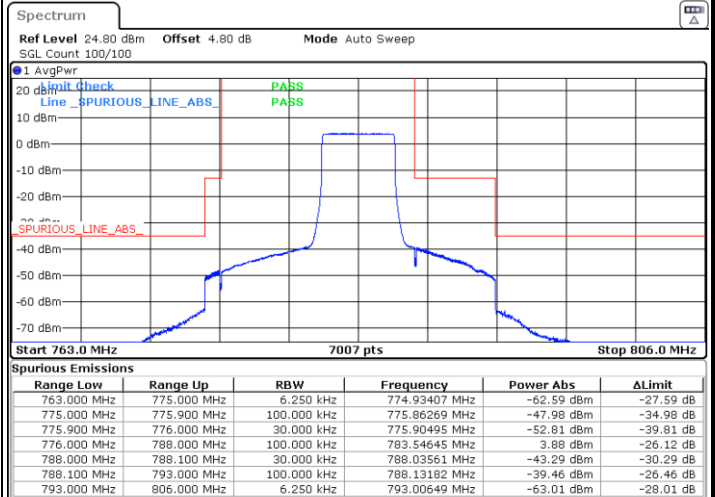
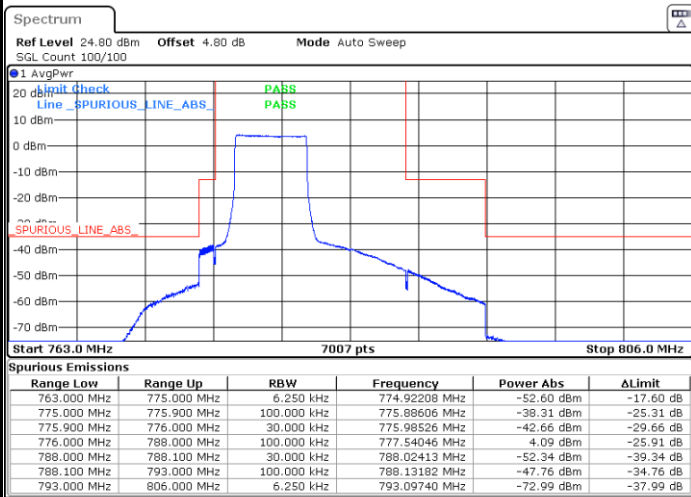


Date: 17.APR.2023 15:27:20

Date: 17.APR.2023 15:46:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



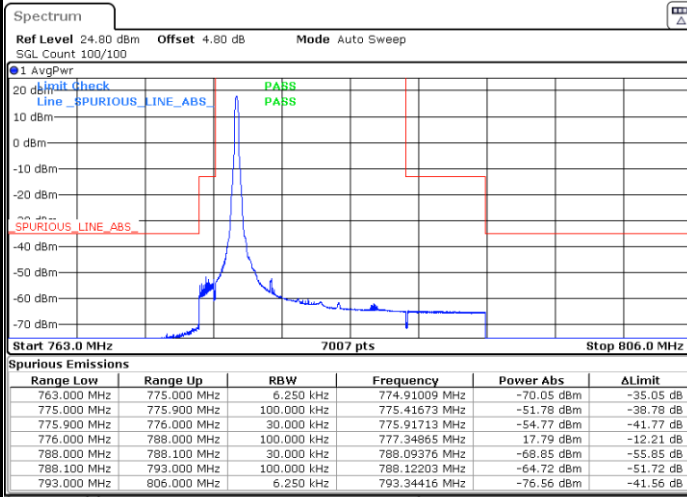
Date: 17.APR.2023 15:39:18

Date: 17.APR.2023 15:54:10



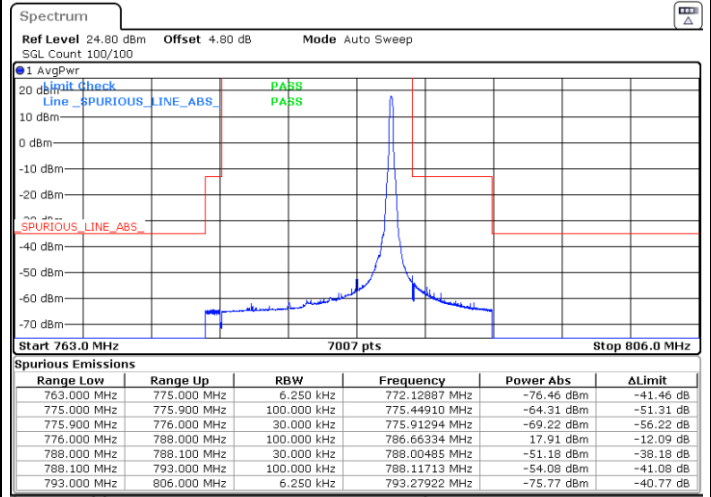
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



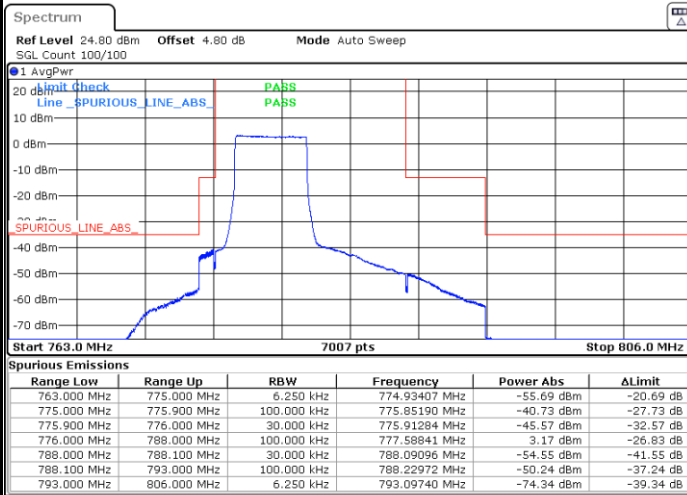
Date: 17.APR.2023 15:29:11

Highest Band Edge / 1 RB



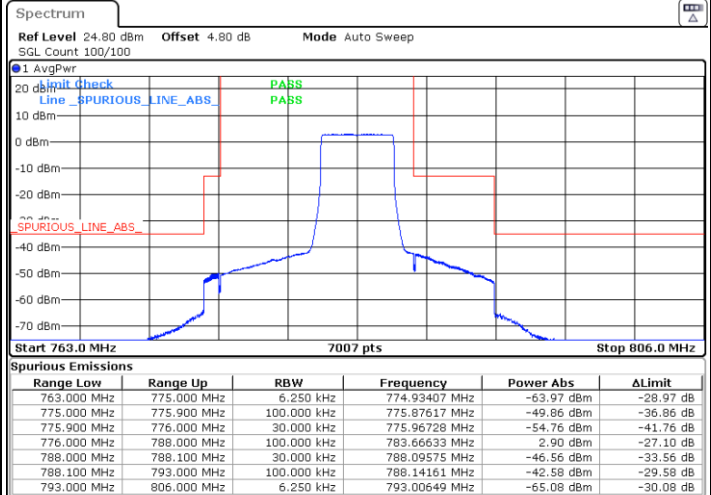
Date: 17.APR.2023 15:48:35

Lowest Band Edge / Full RB



Date: 17.APR.2023 15:41:09

Highest Band Edge / Full RB



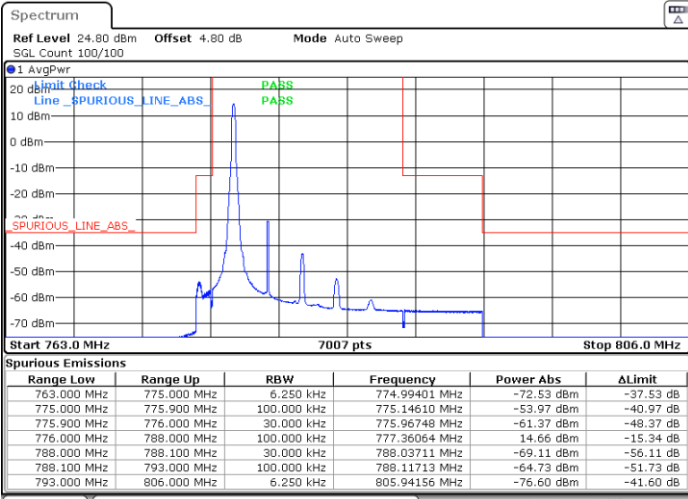
Date: 17.APR.2023 15:56:02



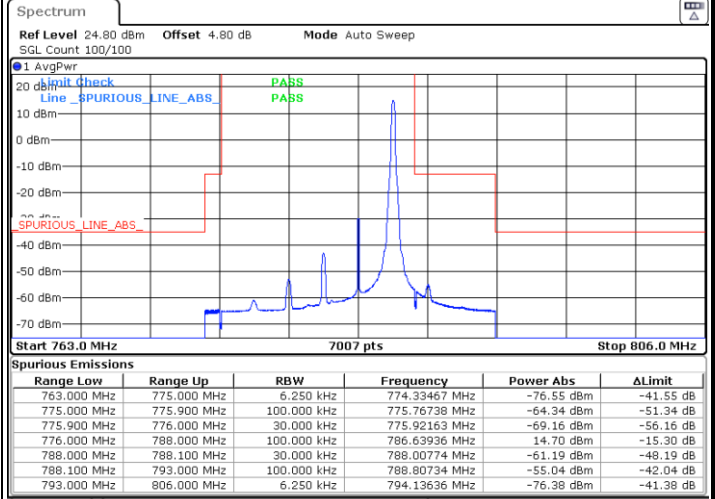
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



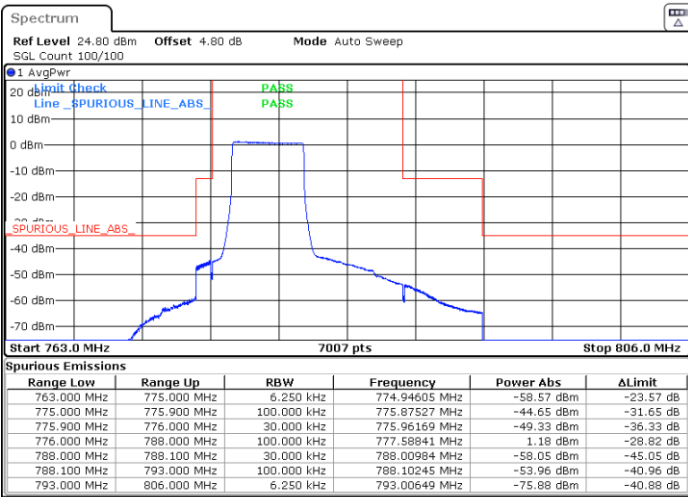
Date: 17.APR.2023 15:31:02



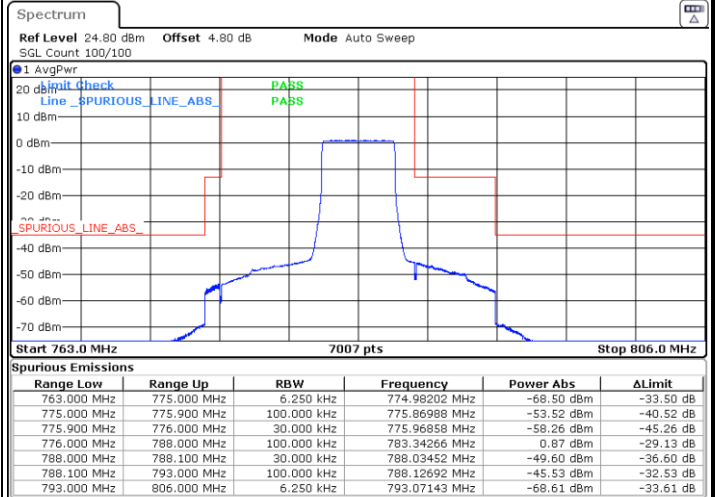
Date: 17.APR.2023 15:50:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.APR.2023 15:42:59



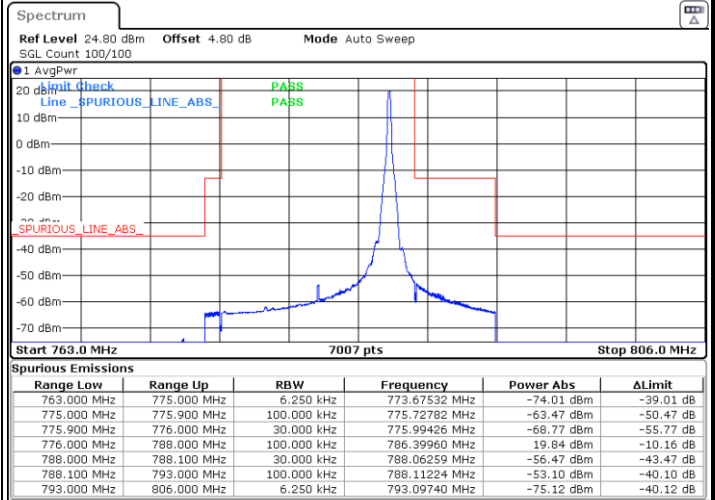
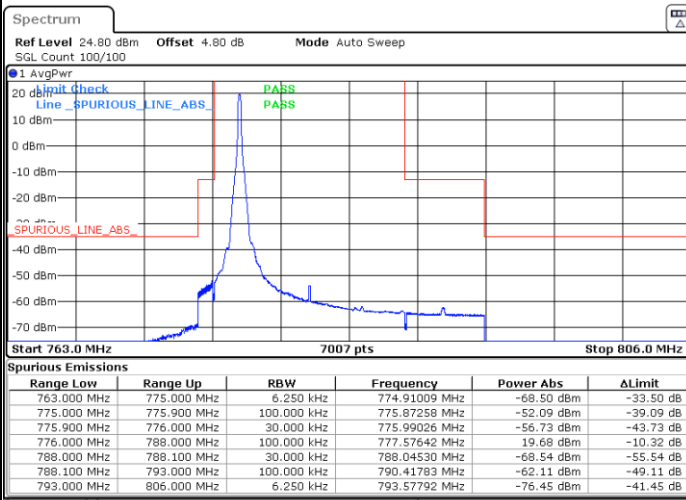
Date: 17.APR.2023 15:57:53



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

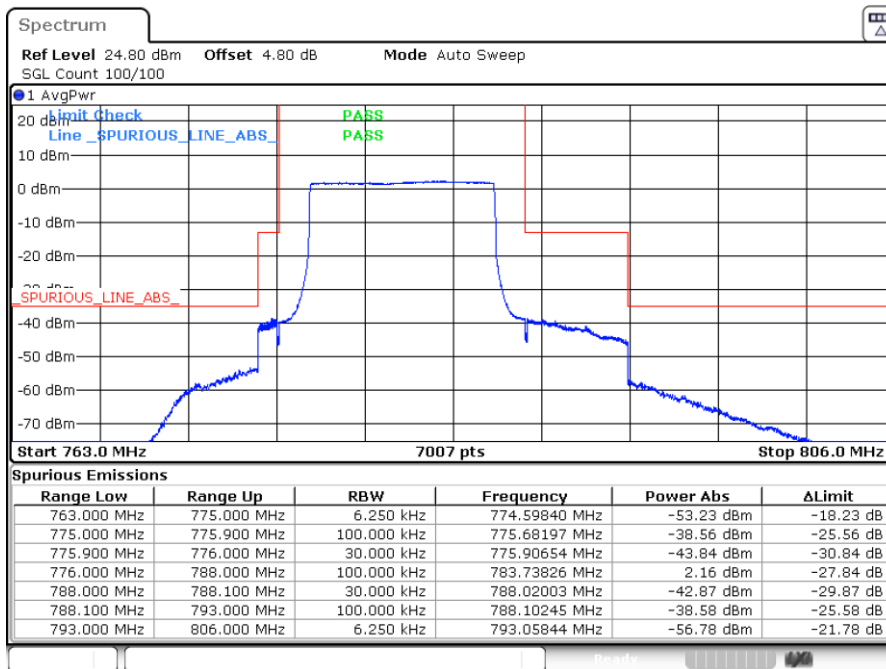
middle Band Edge / 1 RB



Date: 17.APR.2023 16:01:59

Date: 17.APR.2023 16:09:18

Middle Band Edge / Full RB



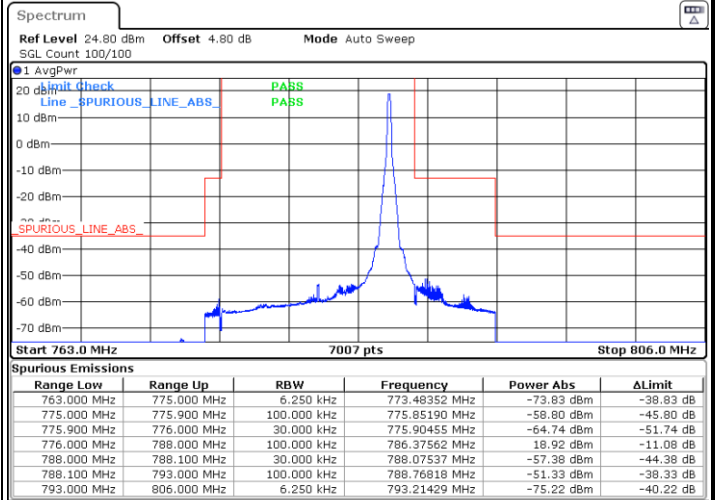
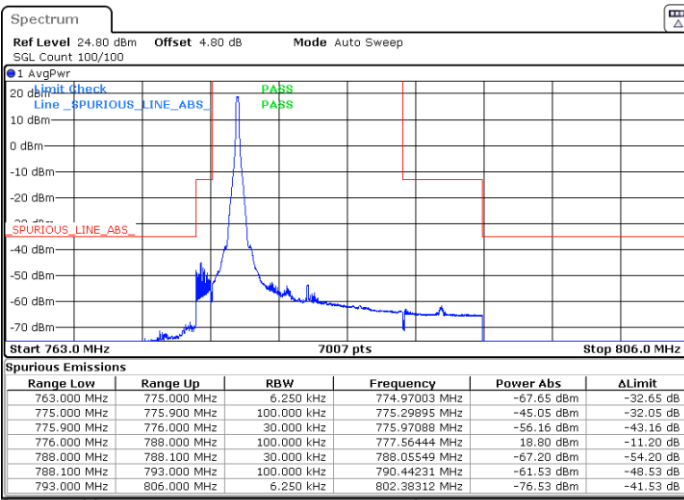
Date: 17.APR.2023 16:16:36



LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB

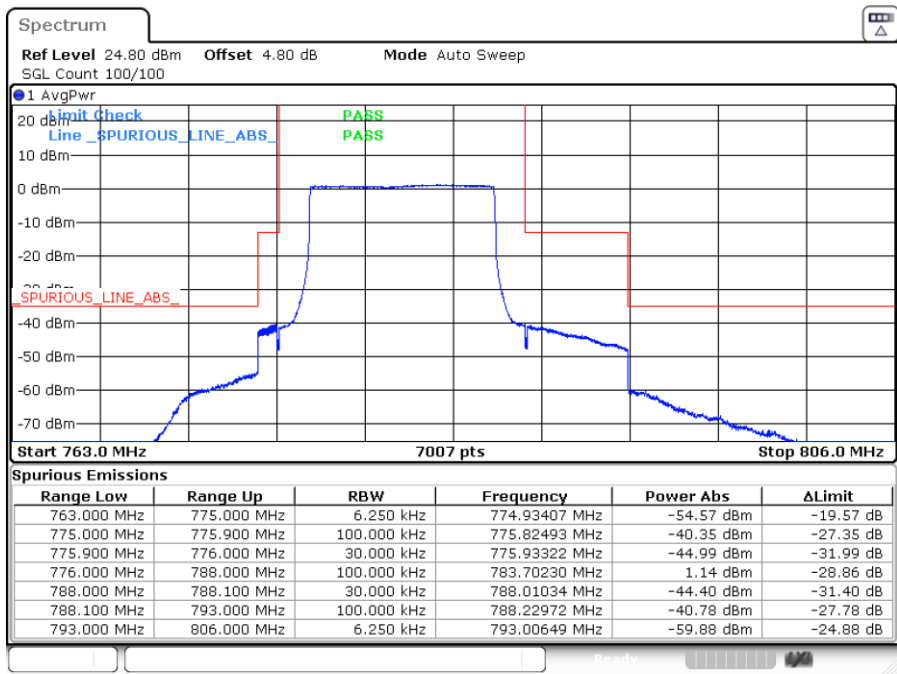
middle Band Edge / 1 RB



Date: 17.APR.2023 16:03:49

Date: 17.APR.2023 16:11:07

middle Band Edge / Full RB

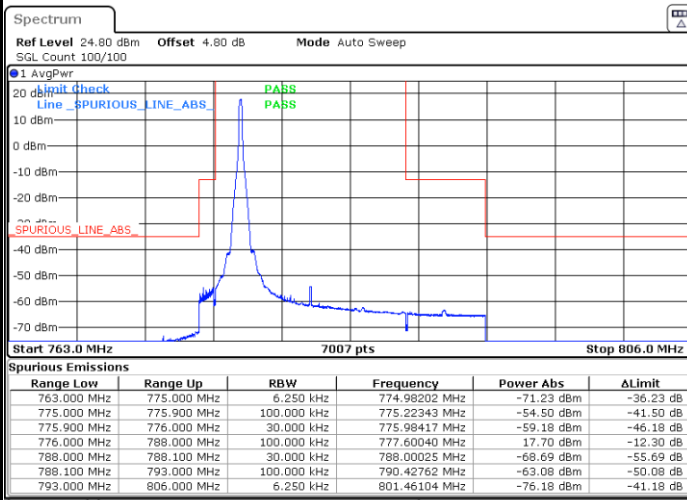


Date: 17.APR.2023 16:18:25



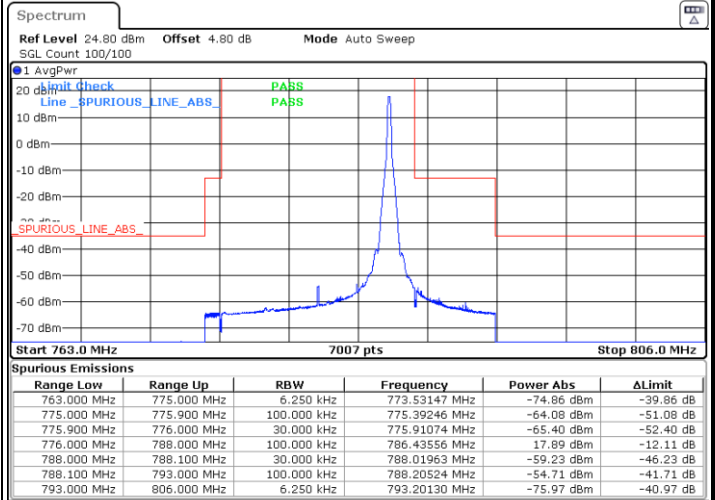
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



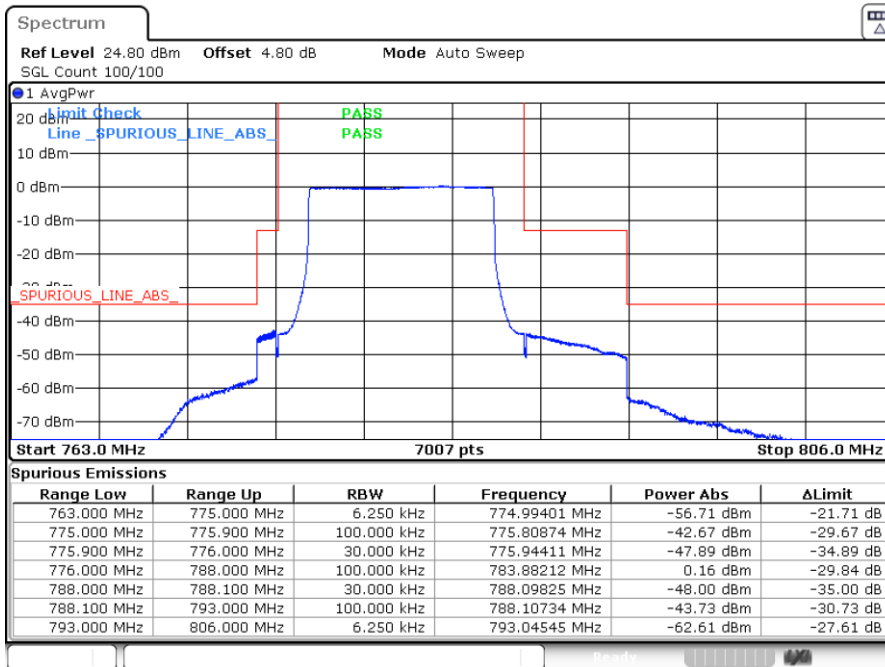
Date: 17.APR.2023 16:05:39

middle Band Edge / 1 RB



Date: 17.APR.2023 16:12:57

middle Band Edge / Full RB



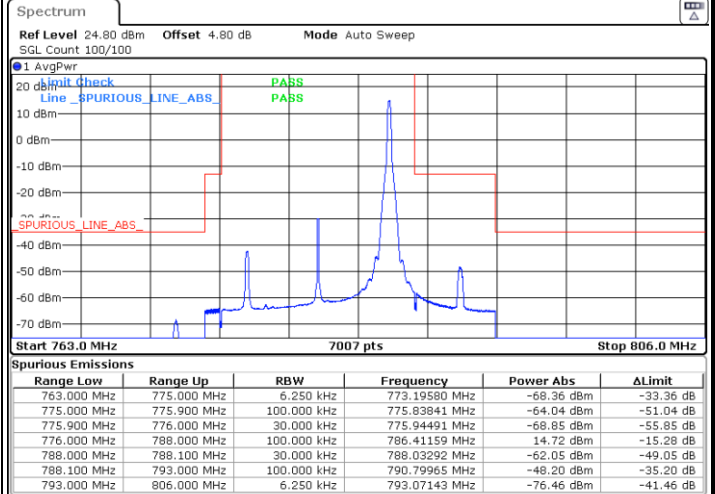
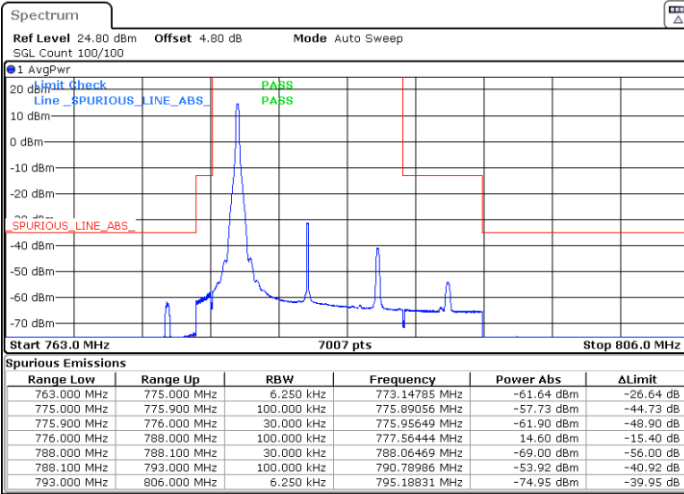
Date: 17.APR.2023 16:20:15



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

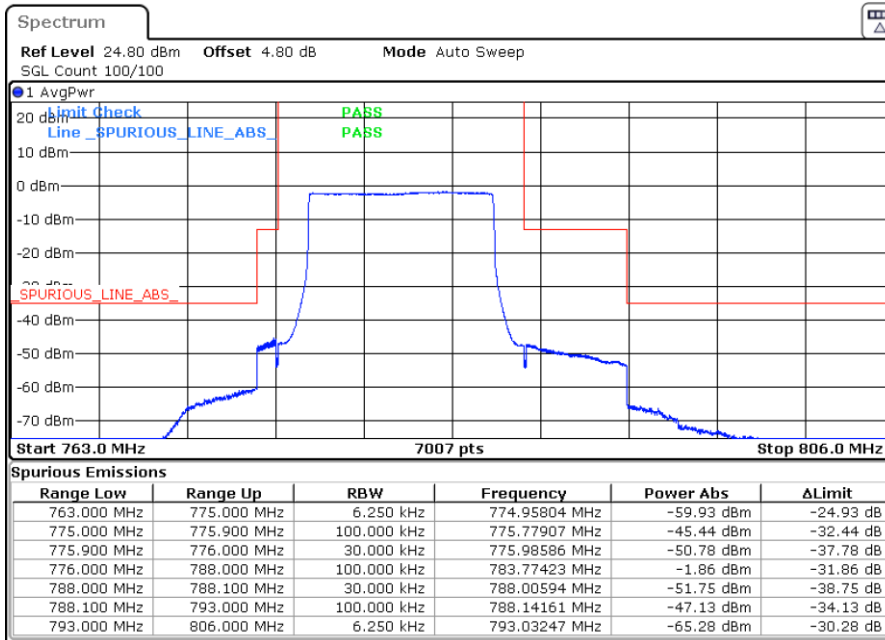
middle Band Edge / 1 RB



Date: 17.APR.2023 16:07:28

Date: 17.APR.2023 16:14:46

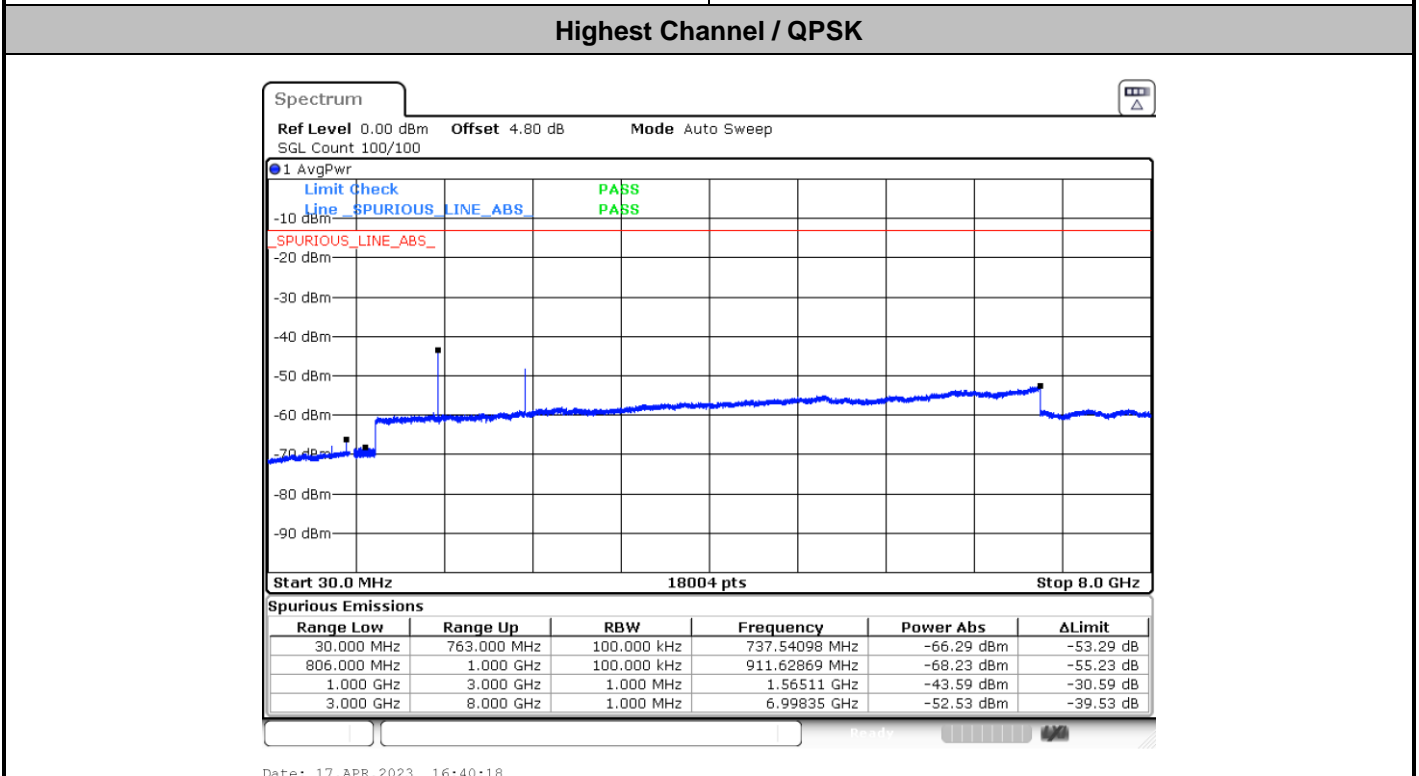
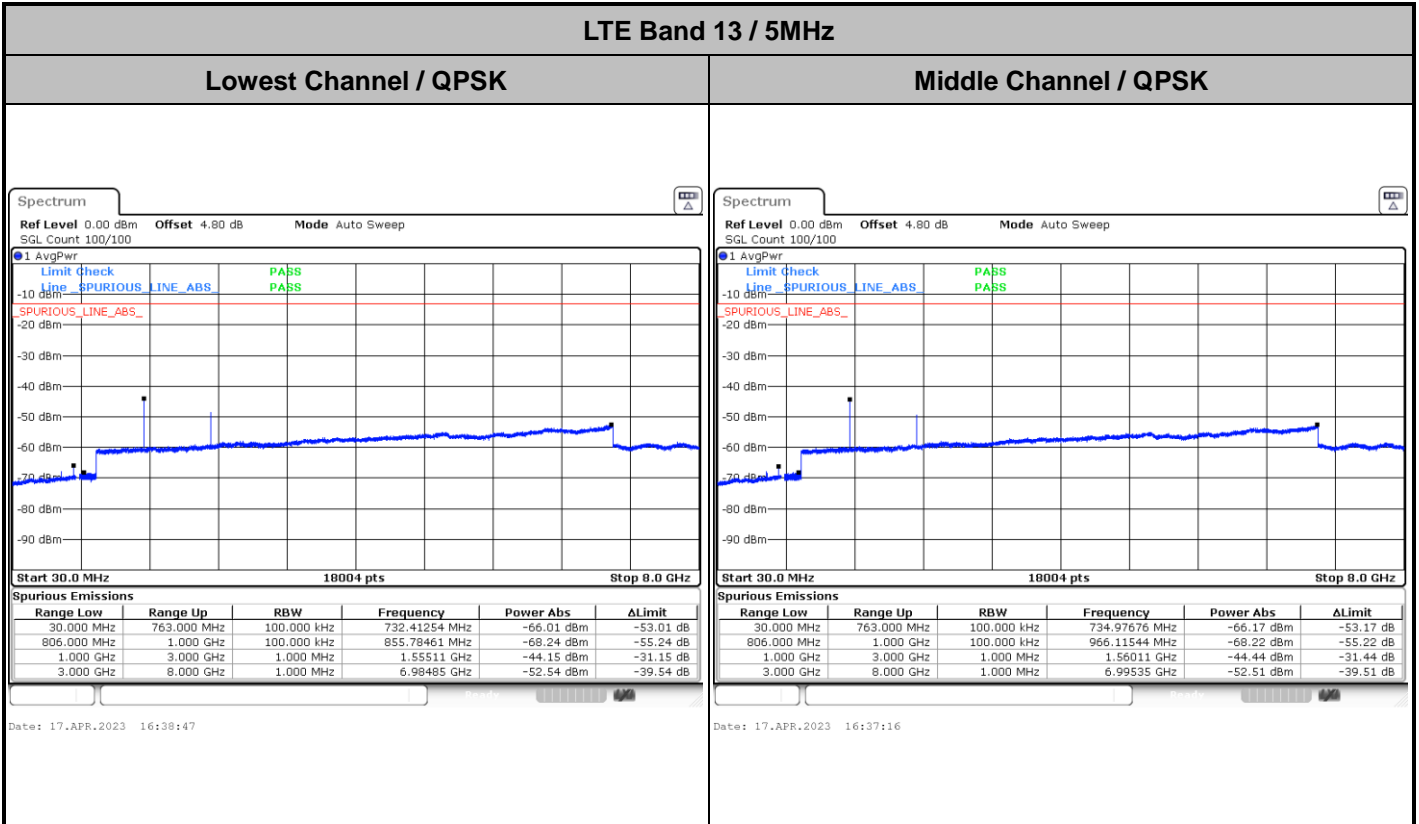
middle Band Edge / Full RB



Date: 17.APR.2023 16:22:04



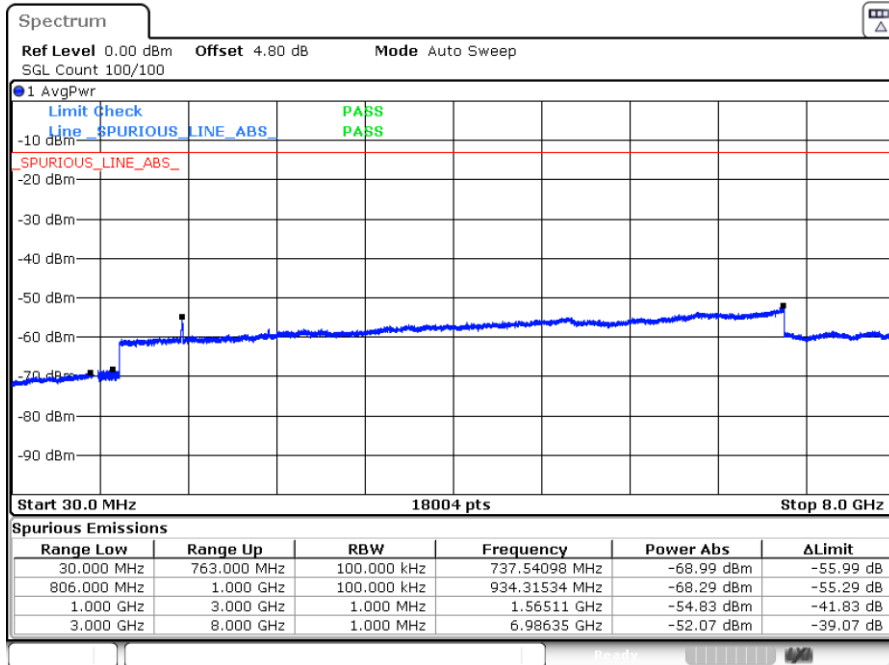
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 17, APR, 2023 16:43:14



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	0.0006	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0051	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0042	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0054	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0018	

Note:

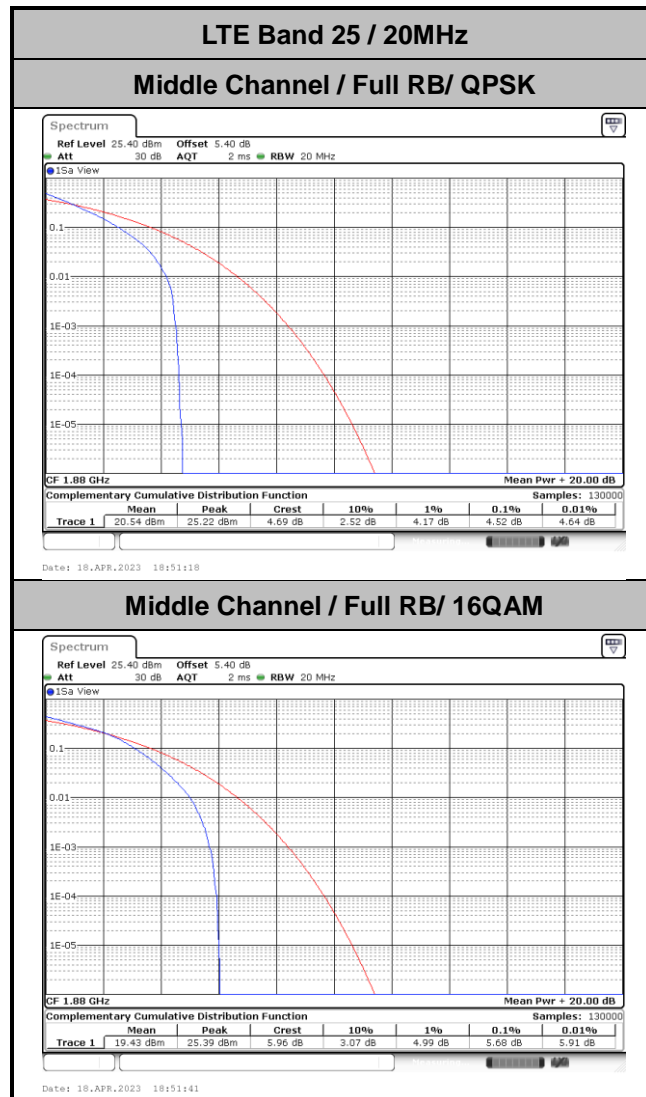
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

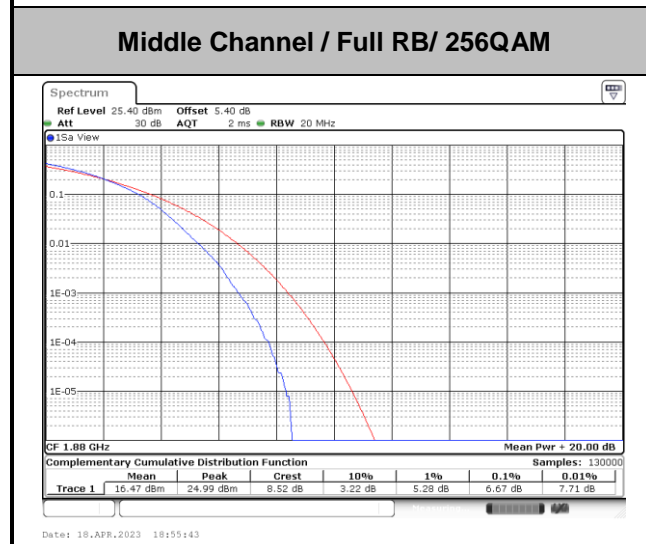
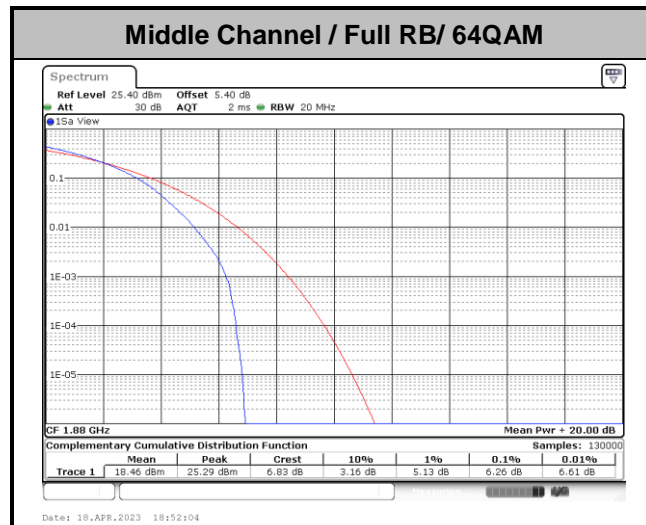


LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.52	5.68	6.26	6.67	PASS







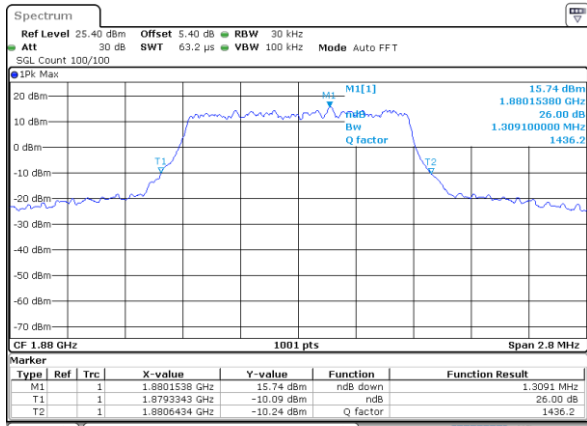
26dB Bandwidth

Mode	LTE Band 25 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.31	1.28
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.12	3.04
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.04	4.90
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	10.11	10.21
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.75	14.42
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.86	19.42



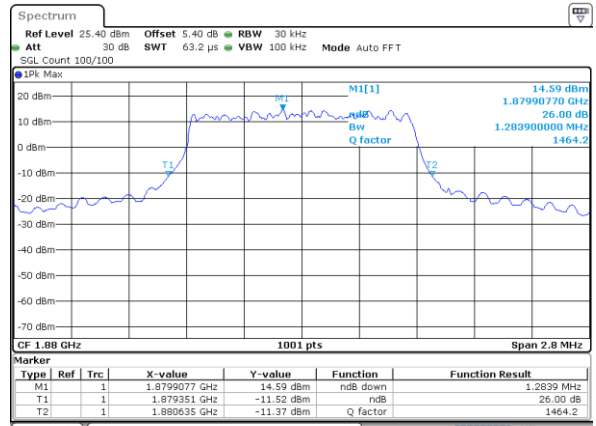
LTE Band 25

Middle Channel / 1.4MHz / QPSK



Date: 18.APR.2023 19:07:13

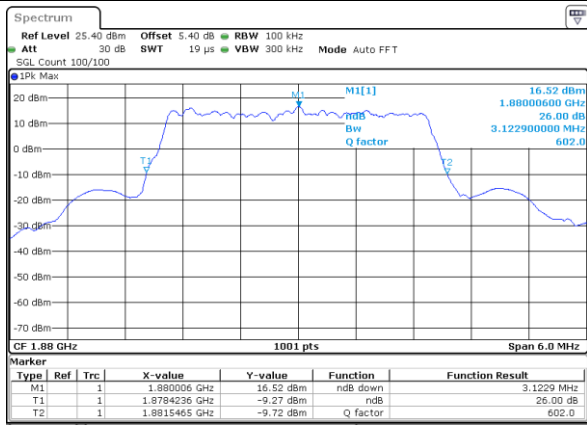
Middle Channel / 1.4MHz / 16QAM



Date: 18.APR.2023 19:07:35

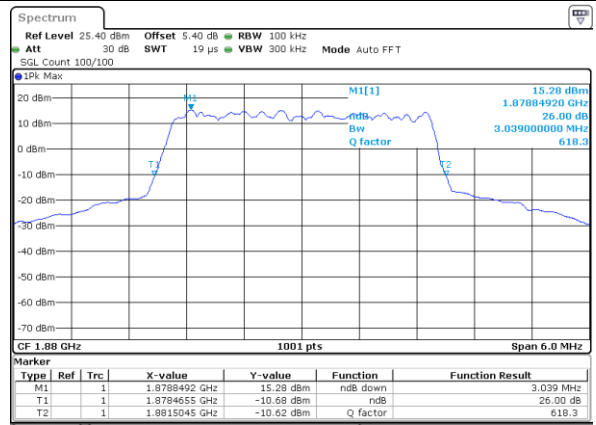
LTE Band 25

Middle Channel / 3MHz / QPSK



Date: 18.APR.2023 19:01:44

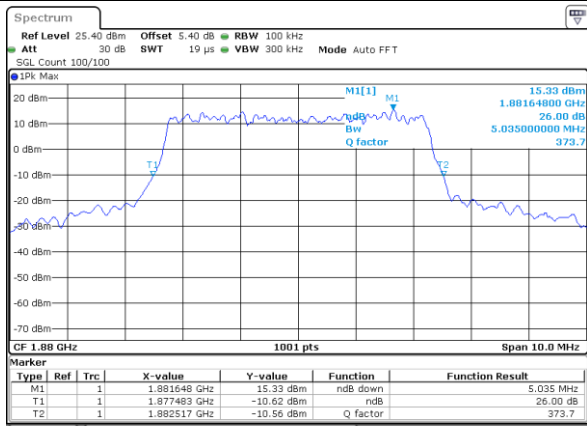
Middle Channel / 3MHz / 16QAM



Date: 18.APR.2023 19:02:05

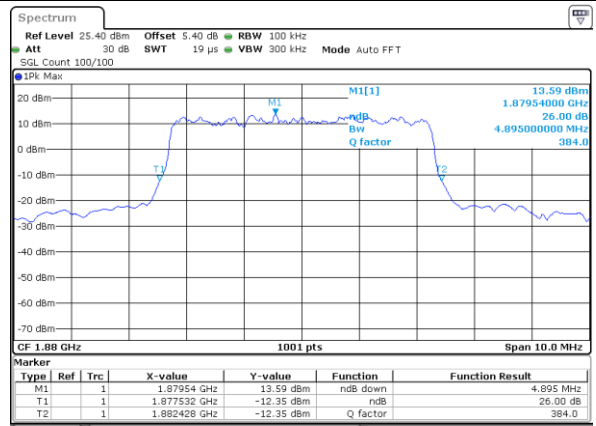
LTE Band 25

Middle Channel / 5MHz / QPSK



Date: 18.APR.2023 19:00:16

Middle Channel / 5MHz / 16QAM

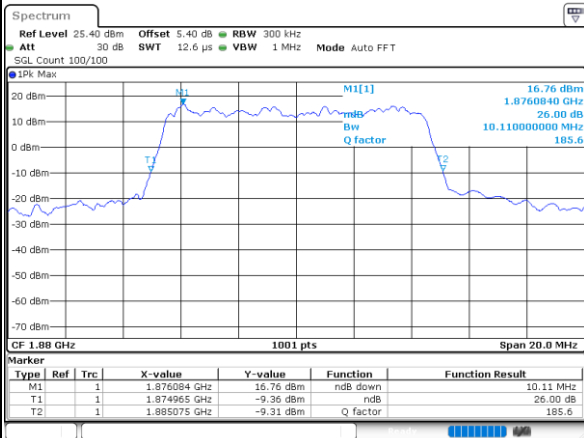


Date: 18.APR.2023 19:00:38



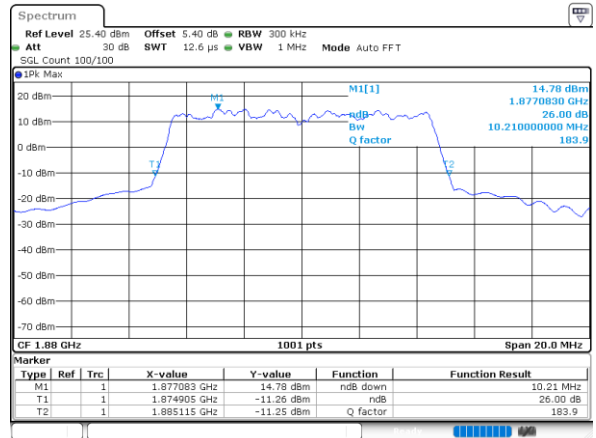
LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 18.APR.2023 18:58:49

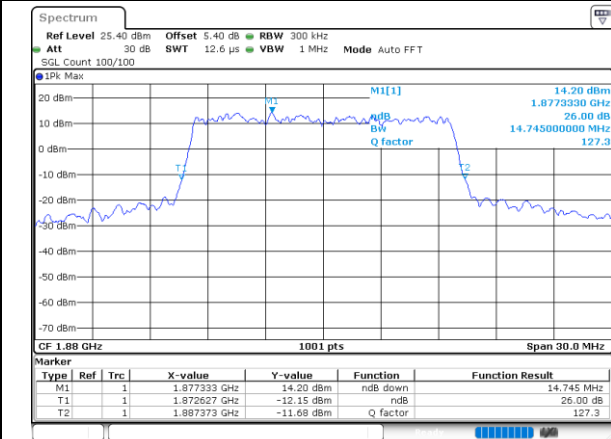
Middle Channel / 10MHz / 16QAM



Date: 18.APR.2023 18:59:11

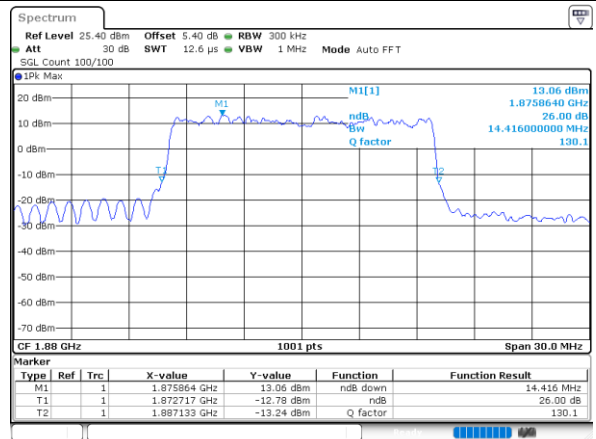
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 18.APR.2023 18:57:22

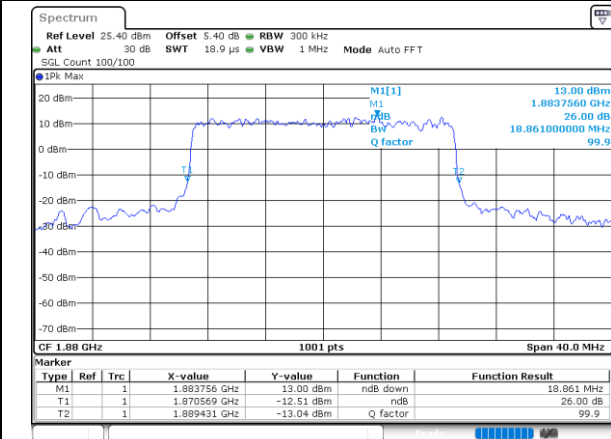
Middle Channel / 15MHz / 16QAM



Date: 18.APR.2023 18:57:44

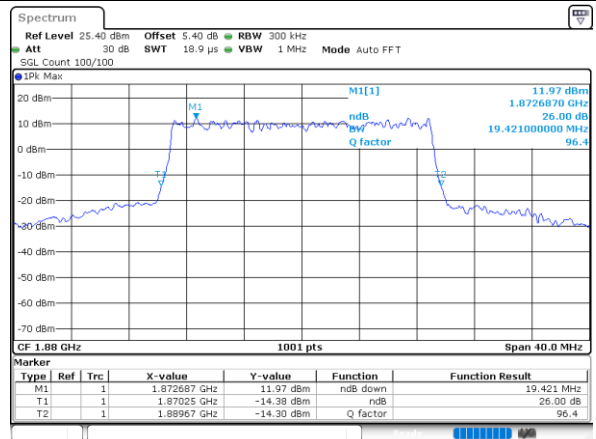
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 18.APR.2023 18:36:27

Middle Channel / 20MHz / 16QAM



Date: 18.APR.2023 18:36:48



Occupied Bandwidth

Mode	LTE Band 25 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.72	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.52
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.05
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.46	13.52
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.86	17.94