

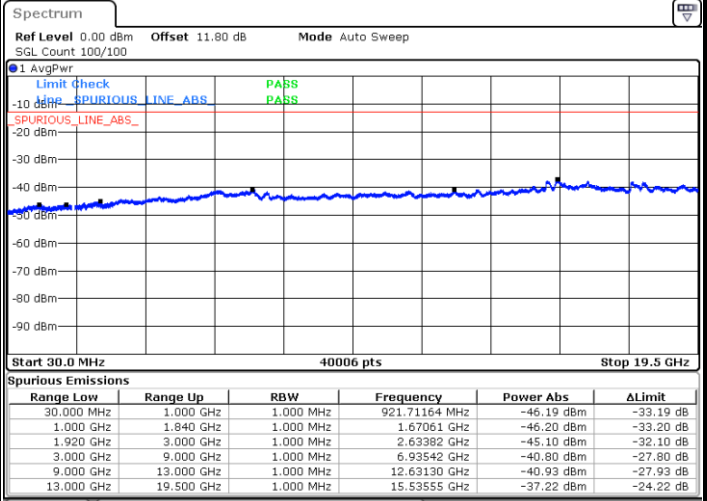
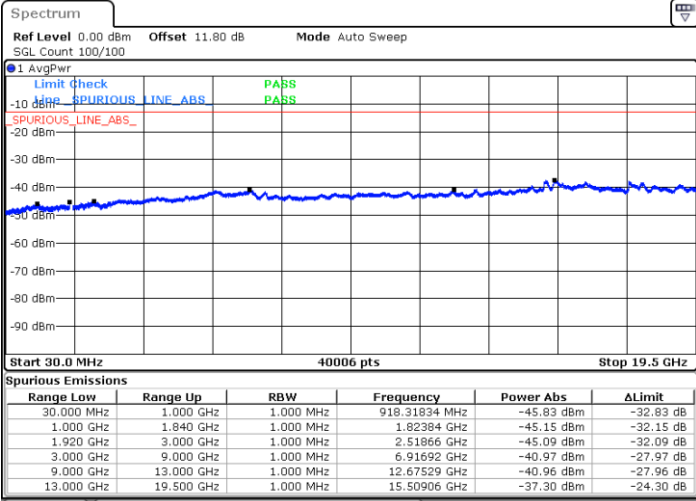


LTE Band 2C / 10MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB49 and 1RB0

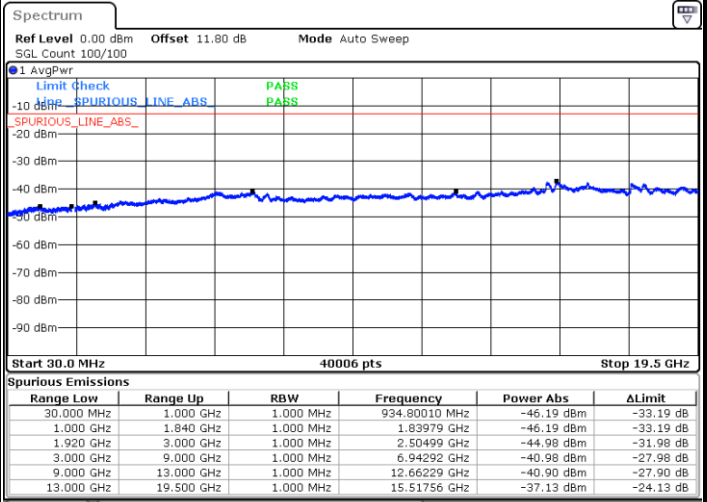
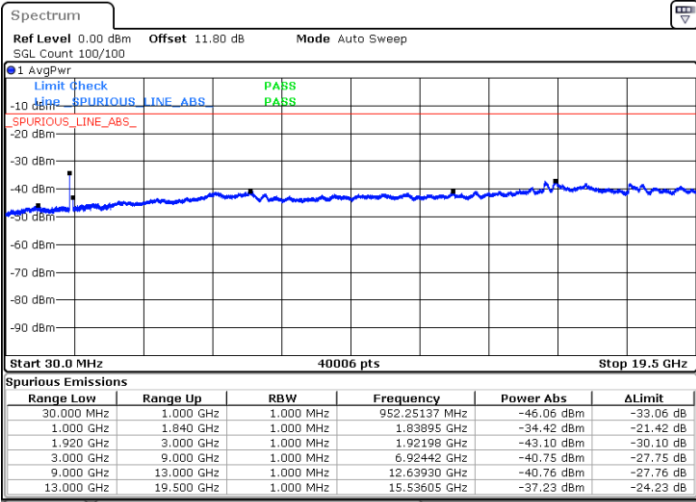


Date: 28.DEC.2023 15:04:03

Date: 28.DEC.2023 15:05:16

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB49 and 1RB0



Date: 28.DEC.2023 15:06:34

Date: 28.DEC.2023 15:07:47

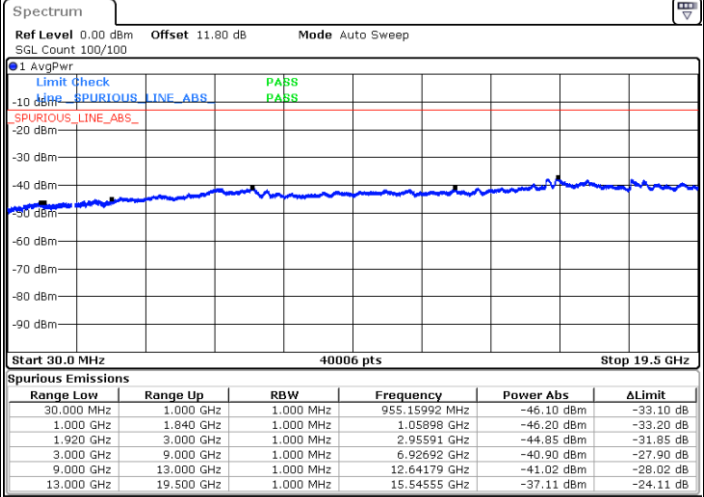
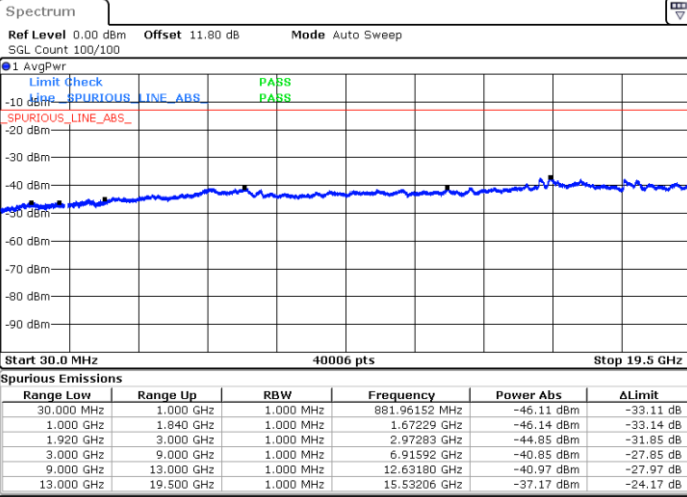


LTE Band 2C / 10MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0



Date: 28.DEC.2023 15:21:58

Date: 28.DEC.2023 15:23:12

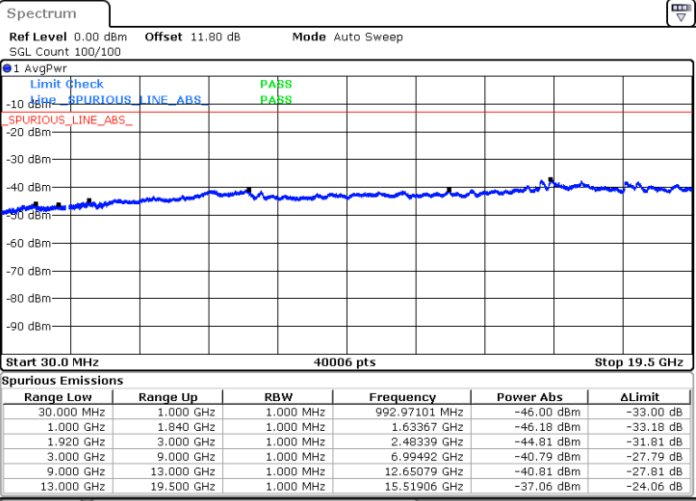
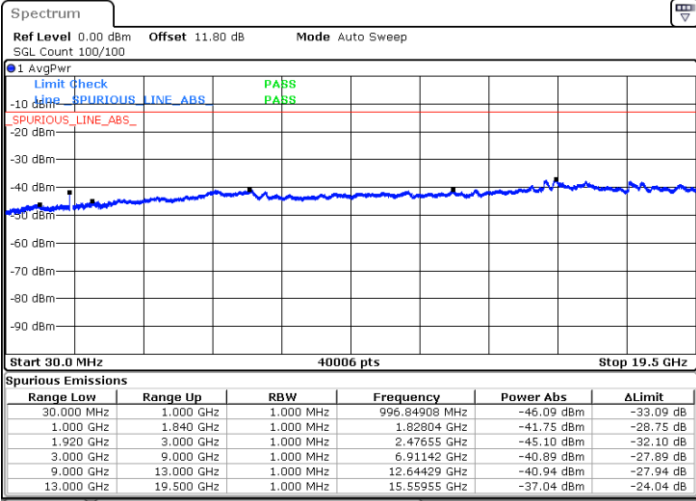


LTE Band 2C / 15MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB74 and 1RB0

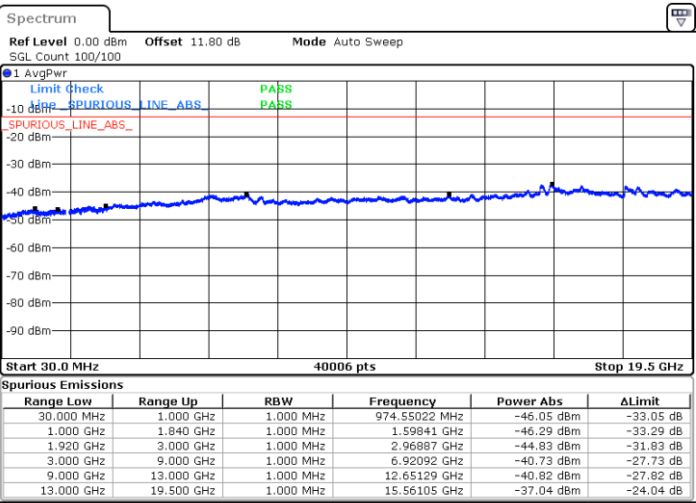
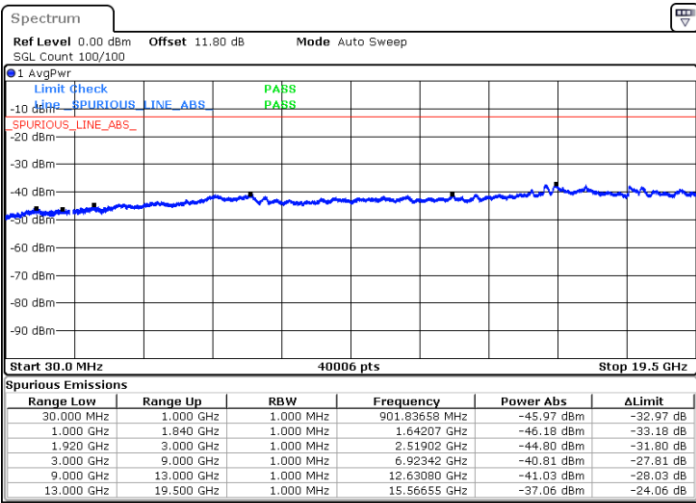


Date: 28.DEC.2023 18:25:28

Date: 28.DEC.2023 18:26:41

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB74 and 1RB0



Date: 28.DEC.2023 18:27:58

Date: 28.DEC.2023 18:29:11

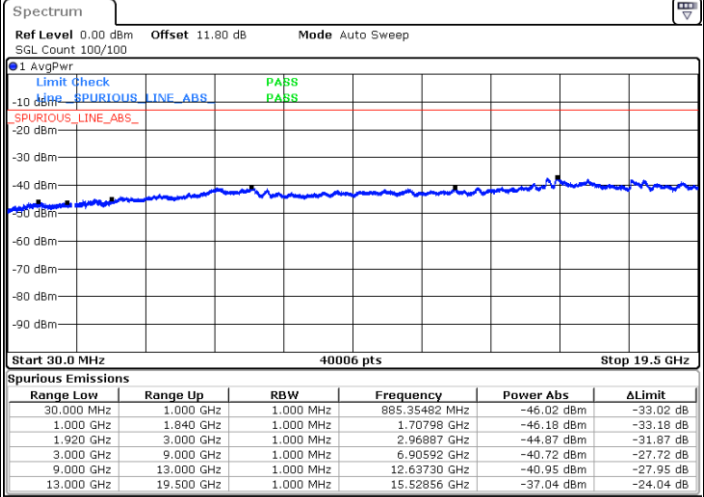
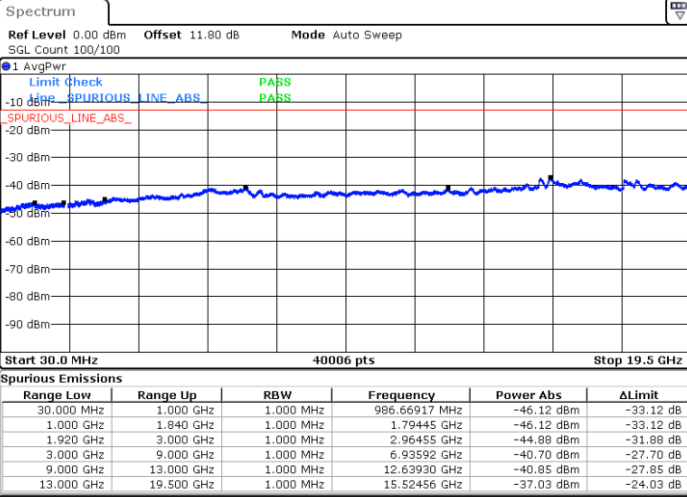


LTE Band 2C / 15MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB74 and 1RB0



Date: 28.DEC.2023 18:43:21

Date: 28.DEC.2023 18:44:35

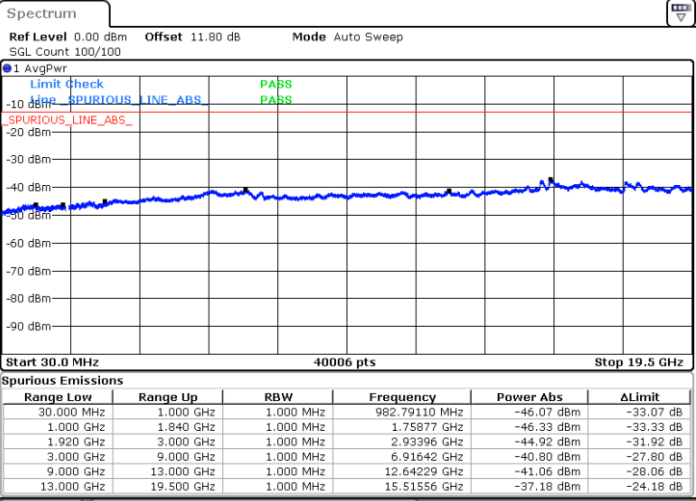
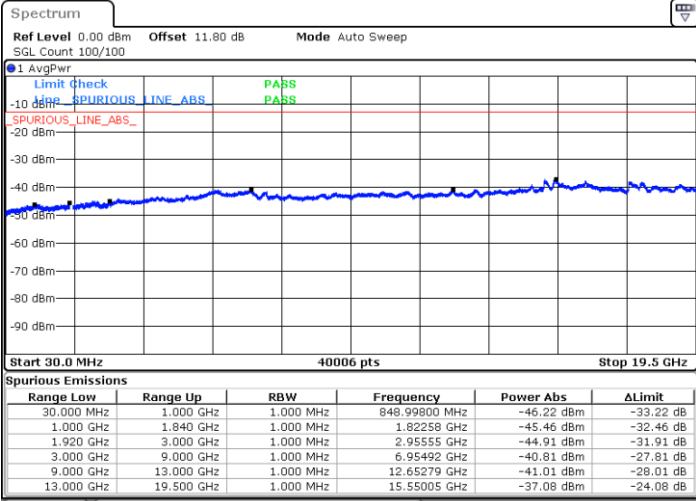


LTE Band 2C / 15MHz+15MHz

QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB74 and 1RB0

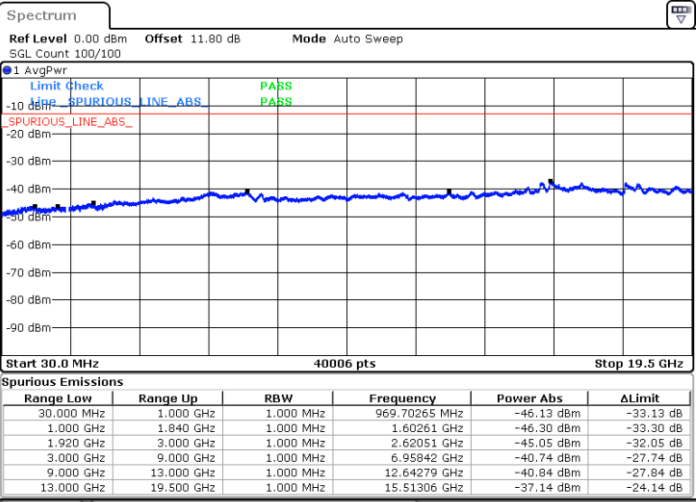
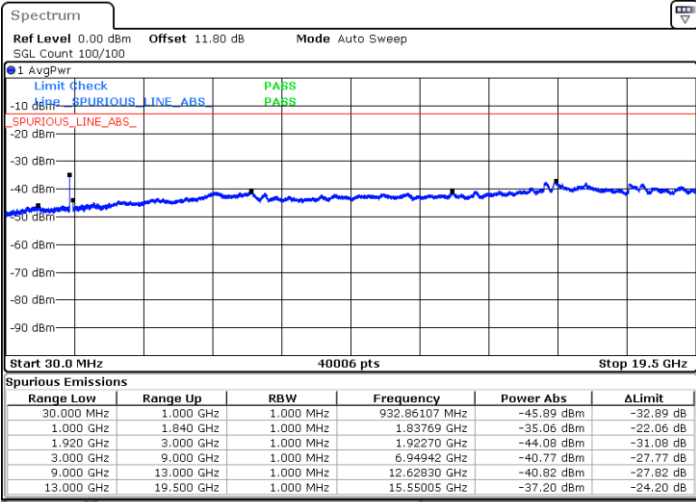


Date: 28.DEC.2023 17:18:48

Date: 28.DEC.2023 17:20:01

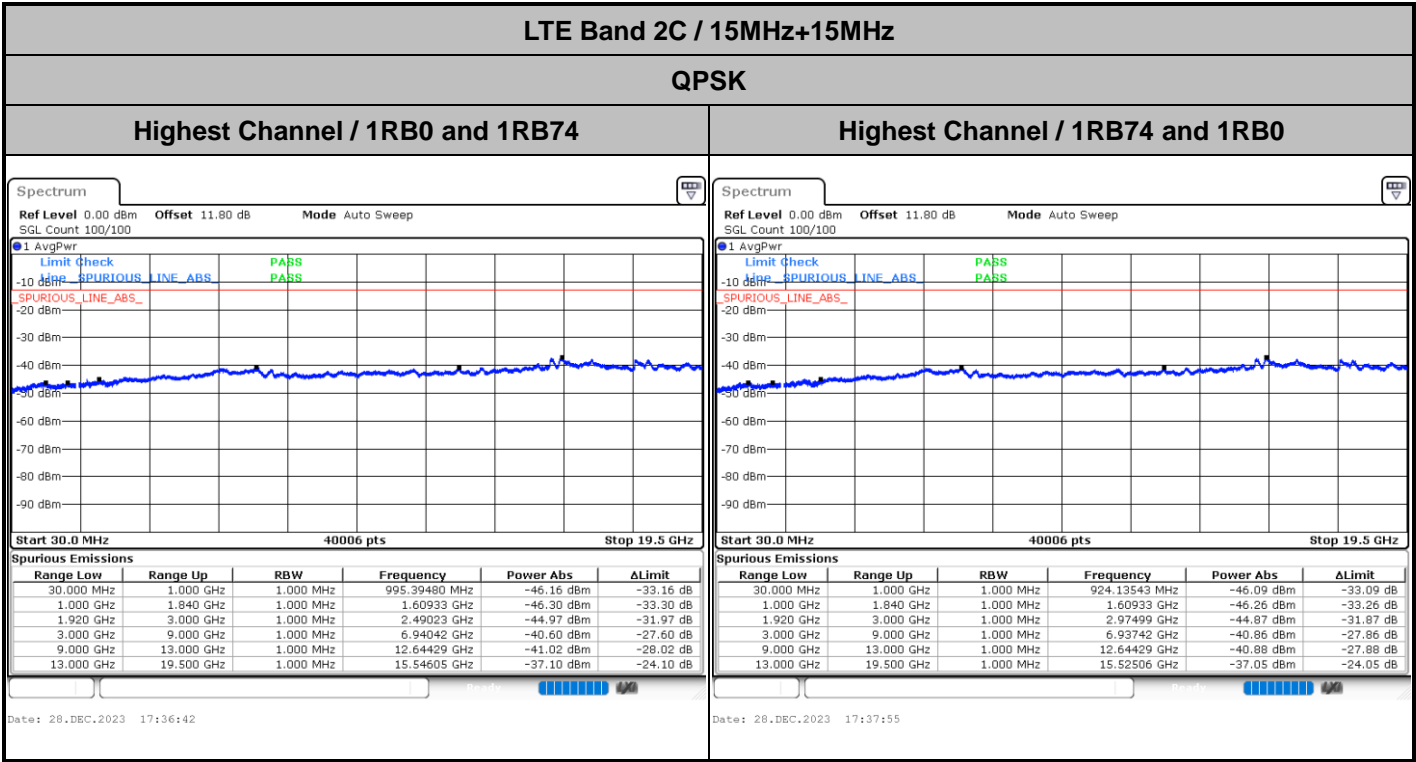
Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB74 and 1RB0



Date: 28.DEC.2023 17:21:19

Date: 28.DEC.2023 17:22:32



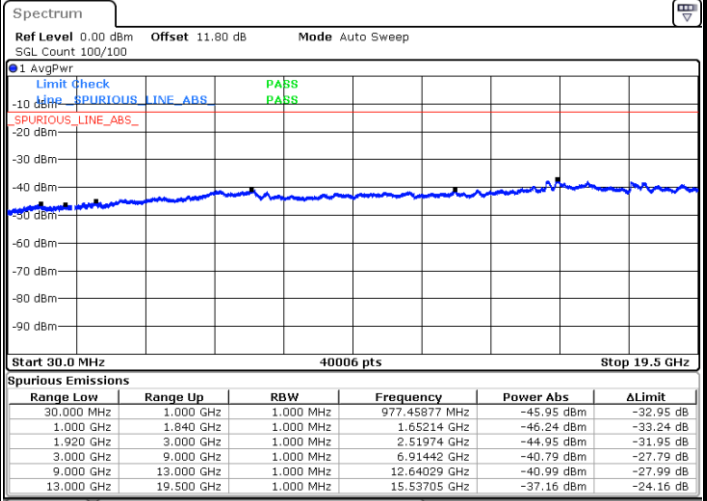
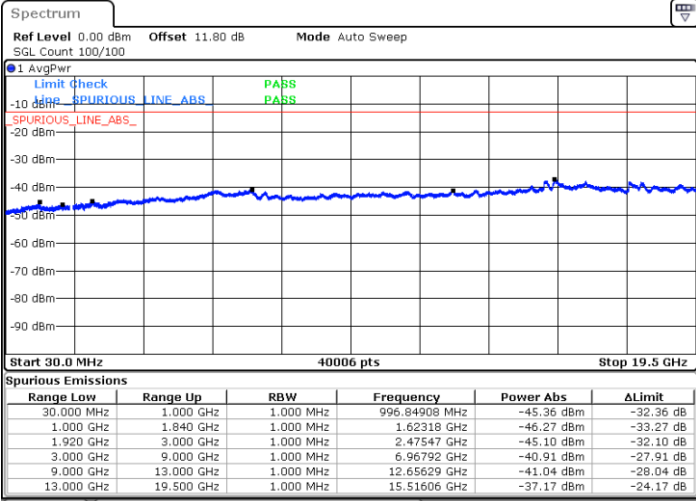


LTE Band 2C / 15MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0

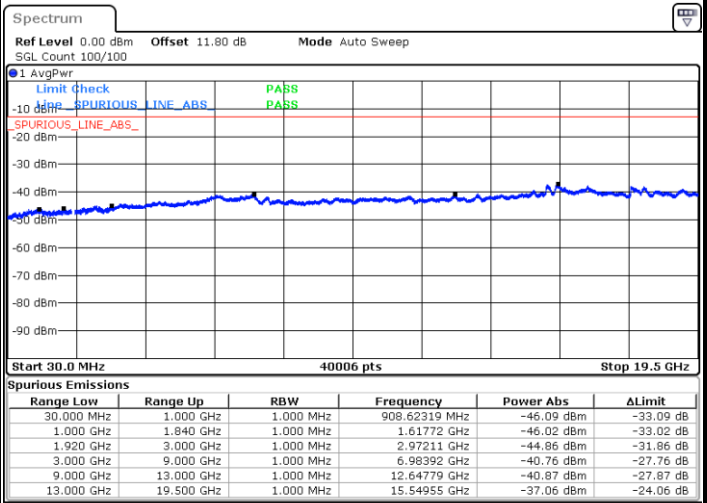
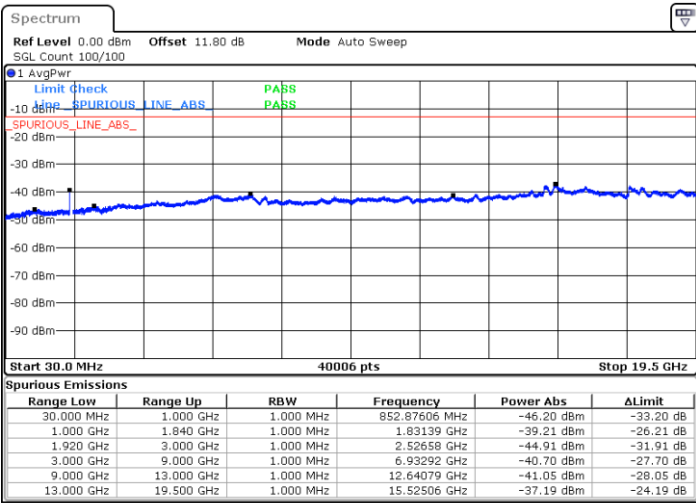


Date: 28.DEC.2023 16:10:44

Date: 28.DEC.2023 16:11:58

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB74 and 1RB0



Date: 28.DEC.2023 16:13:15

Date: 28.DEC.2023 16:14:29

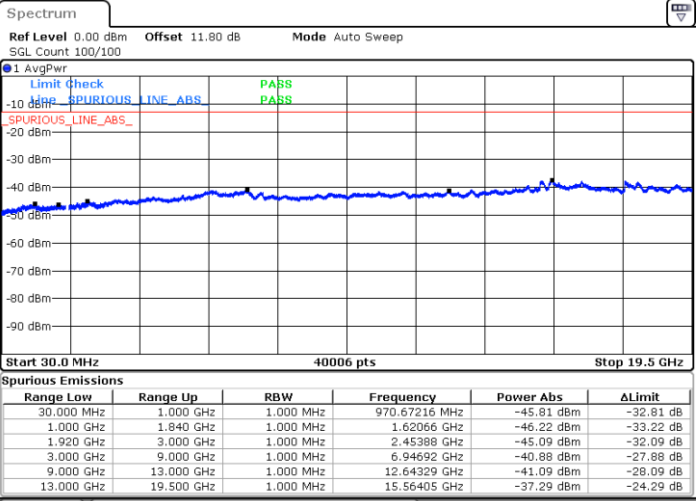
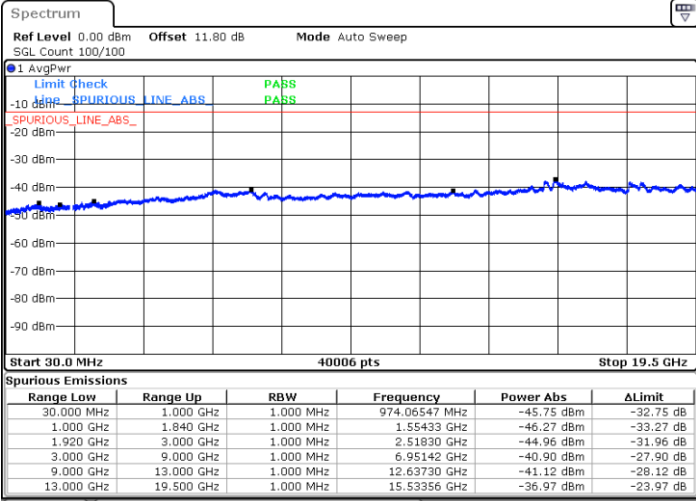


LTE Band 2C / 15MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	974.06547 MHz	-45.75 dBm	-32.75 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.55433 GHz	-46.27 dBm	-33.27 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.51830 GHz	-44.96 dBm	-31.96 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95142 GHz	-40.90 dBm	-27.90 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.63730 GHz	-41.12 dBm	-28.12 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.53356 GHz	-36.97 dBm	-23.97 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	970.67216 MHz	-45.81 dBm	-32.81 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.62066 GHz	-46.22 dBm	-33.22 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.45388 GHz	-45.09 dBm	-32.09 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.94692 GHz	-40.88 dBm	-27.88 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.64329 GHz	-41.09 dBm	-28.09 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.56405 GHz	-37.29 dBm	-24.29 dB

Date: 28.DEC.2023 16:28:39

Date: 28.DEC.2023 16:29:52



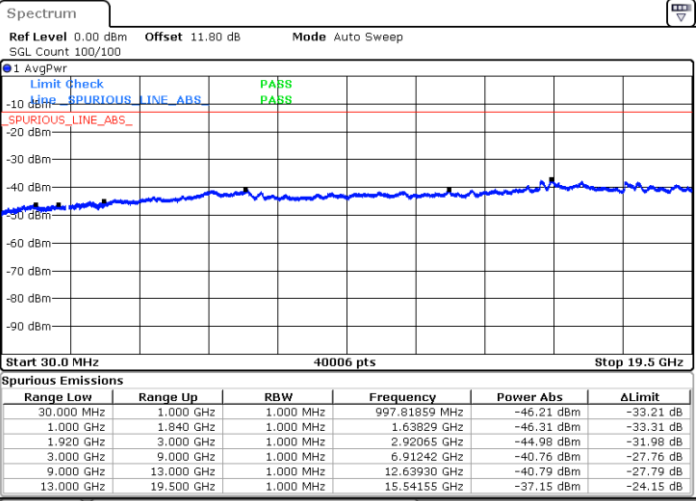
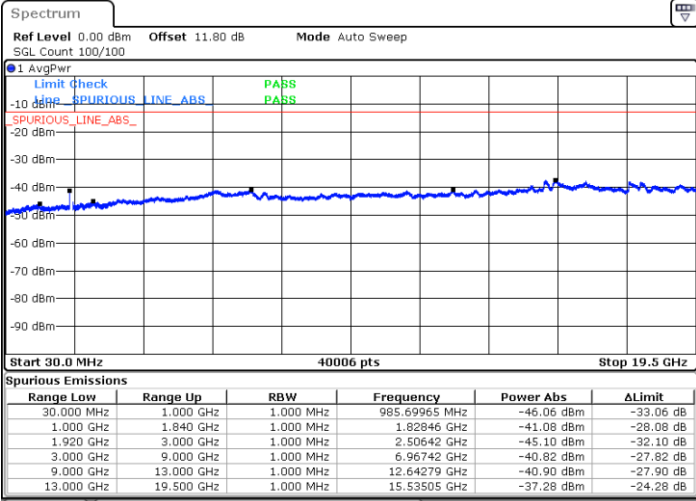


LTE Band 2C / 20MHz+5MHz

QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0

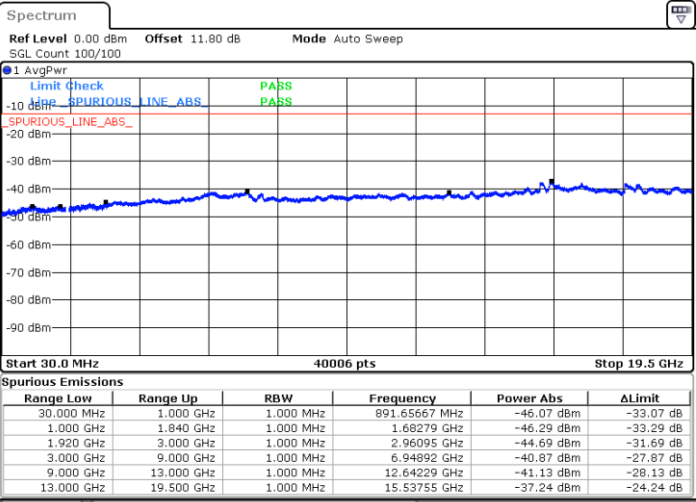
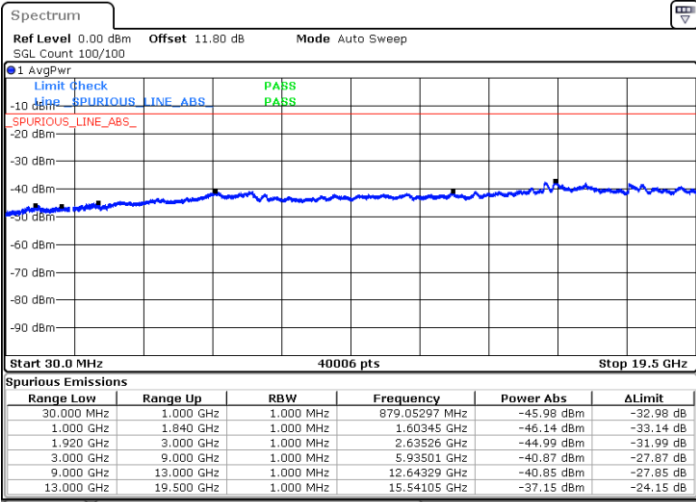


Date: 28.DEC.2023 14:29:43

Date: 28.DEC.2023 14:30:57

Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 14:32:14

Date: 28.DEC.2023 14:33:27

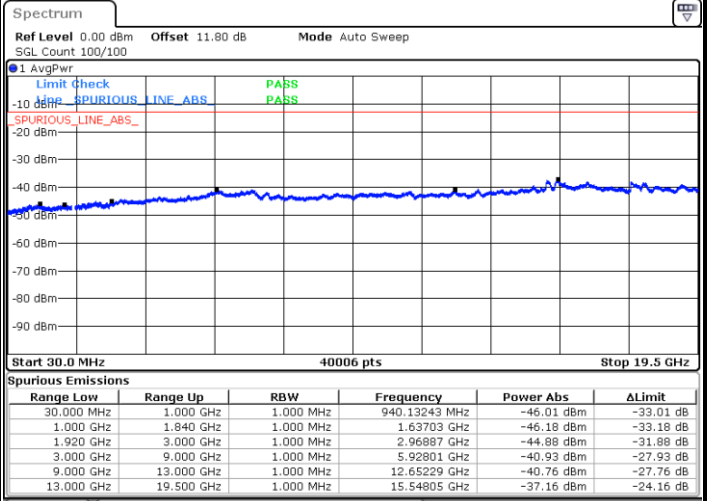
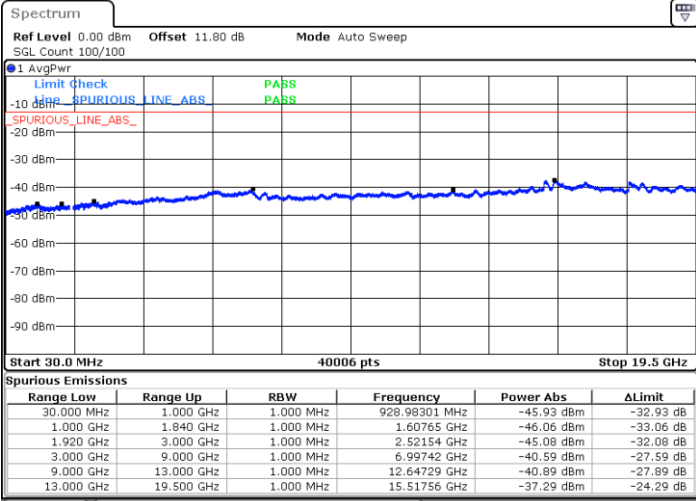


LTE Band 2C / 20MHz+5MHz

QPSK

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB99 and 1RB0



Start 30.0 MHz 40006 pts Stop 19.5 GHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	928.98301 MHz	-45.93 dBm	-32.93 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.60765 GHz	-46.06 dBm	-33.06 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.52154 GHz	-45.08 dBm	-32.08 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99742 GHz	-40.59 dBm	-27.59 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.64729 GHz	-40.89 dBm	-27.89 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.51756 GHz	-37.29 dBm	-24.29 dB

Start 30.0 MHz 40006 pts Stop 19.5 GHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.13243 MHz	-46.01 dBm	-33.01 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.63703 GHz	-46.18 dBm	-33.18 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.96887 GHz	-44.88 dBm	-31.88 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.92801 GHz	-40.93 dBm	-27.93 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.65229 GHz	-40.76 dBm	-27.76 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.54805 GHz	-37.16 dBm	-24.16 dB

Date: 28.DEC.2023 14:48:37

Date: 28.DEC.2023 14:49:51

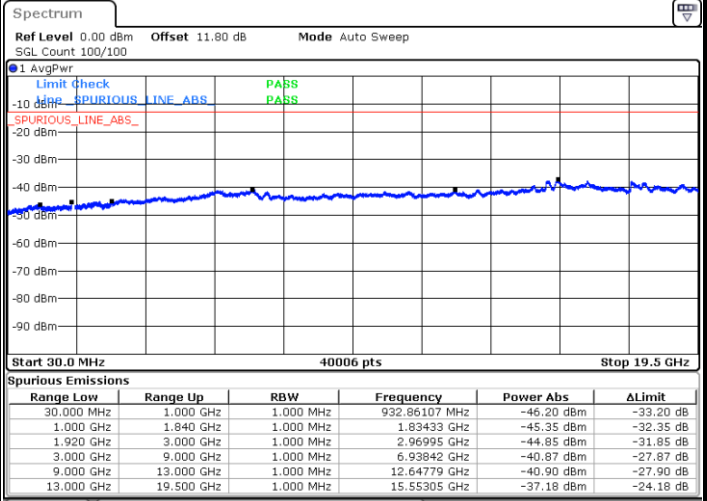
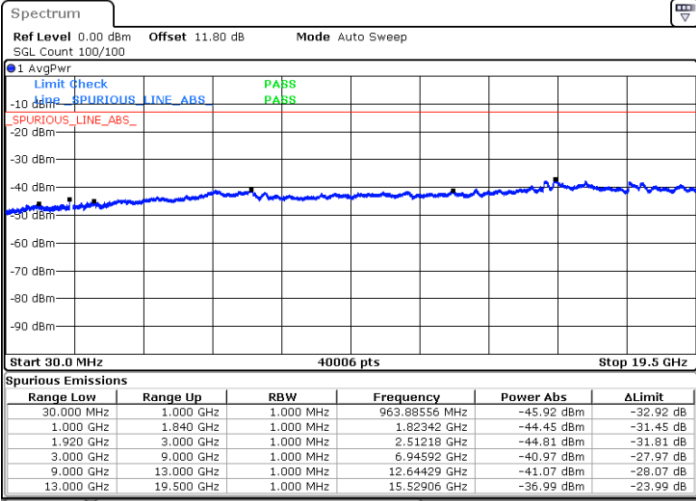


LTE Band 2C / 20MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0

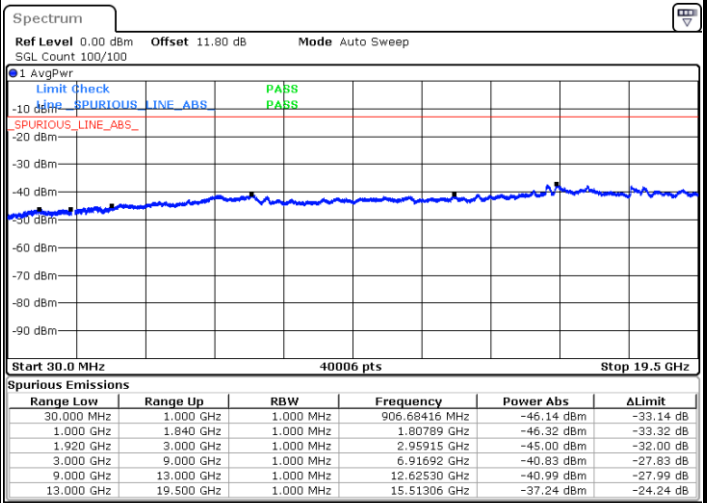
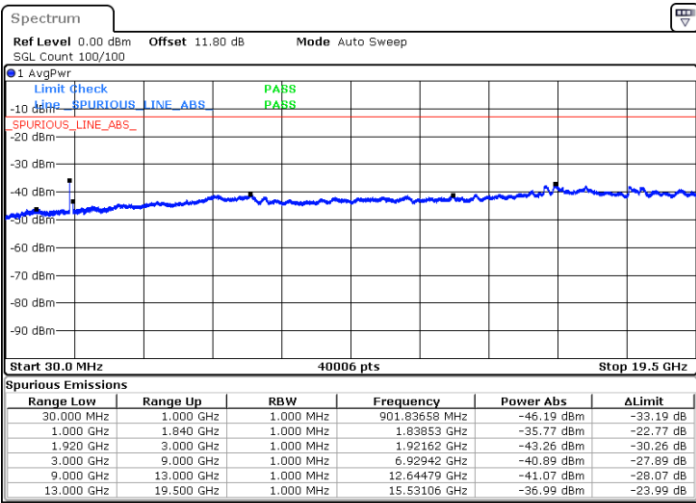


Date: 28.DEC.2023 15:37:23

Date: 28.DEC.2023 15:38:37

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 15:39:54

Date: 28.DEC.2023 15:41:07

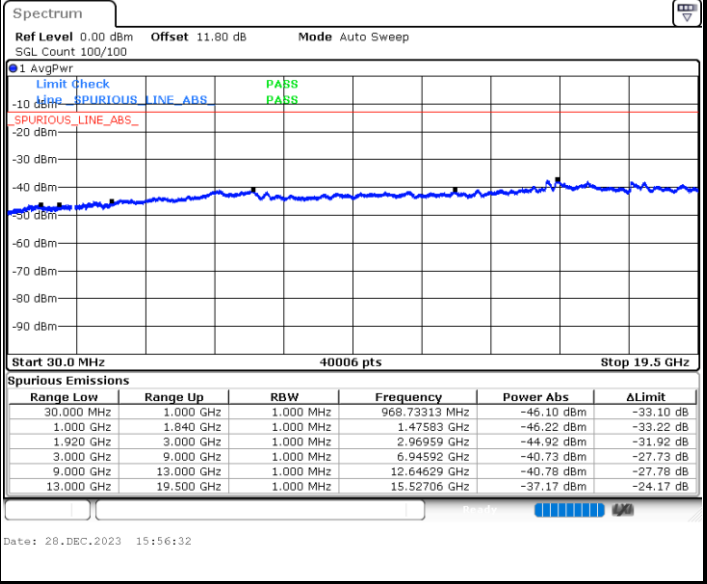
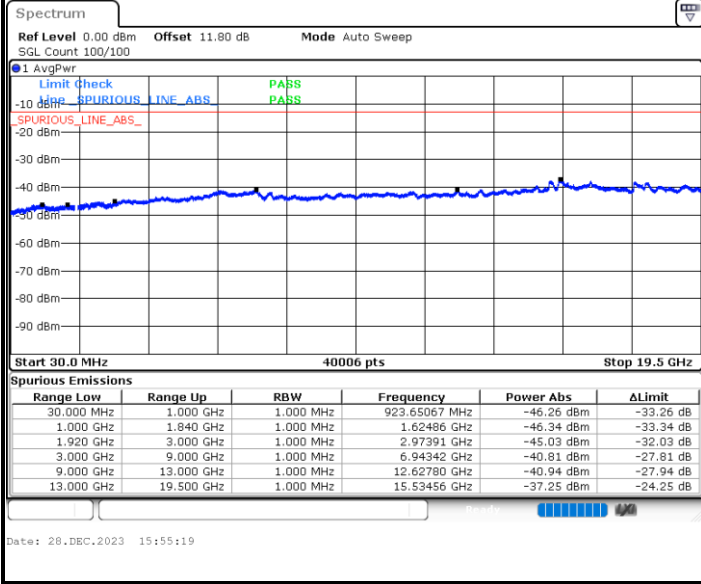


LTE Band 2C / 20MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



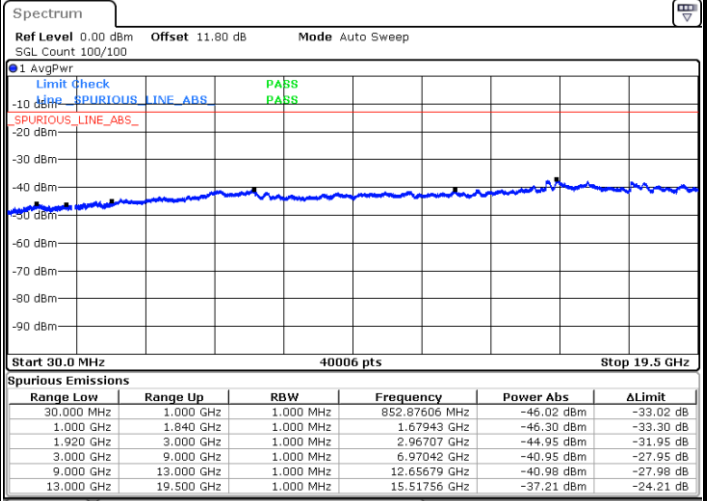
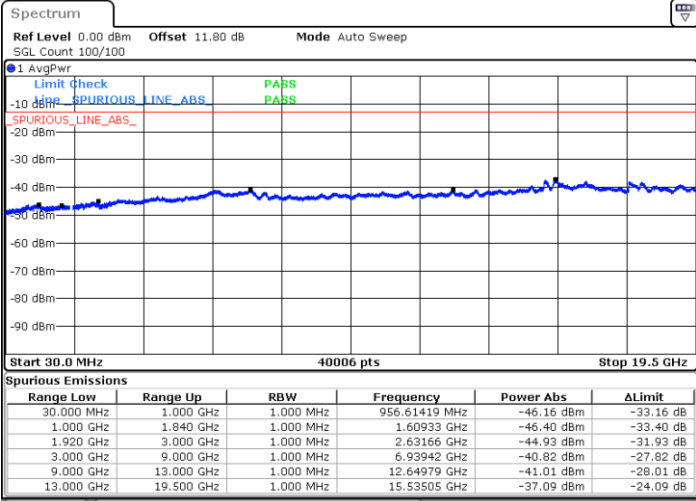


LTE Band 2C / 20MHz+15MHz

QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0

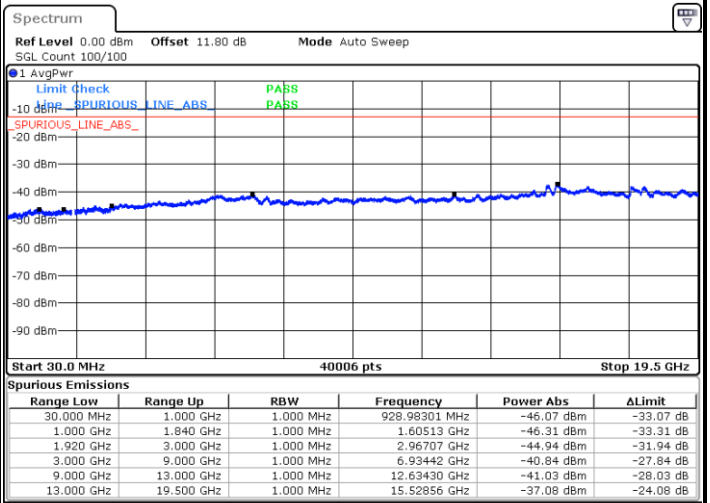
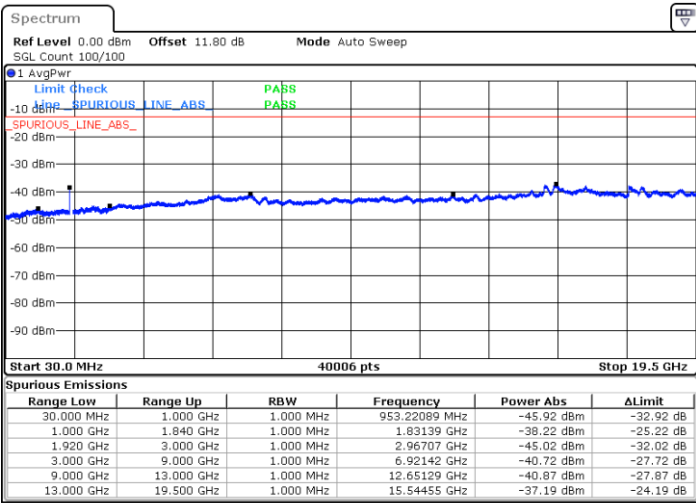


Date: 28.DEC.2023 16:44:03

Date: 28.DEC.2023 16:45:16

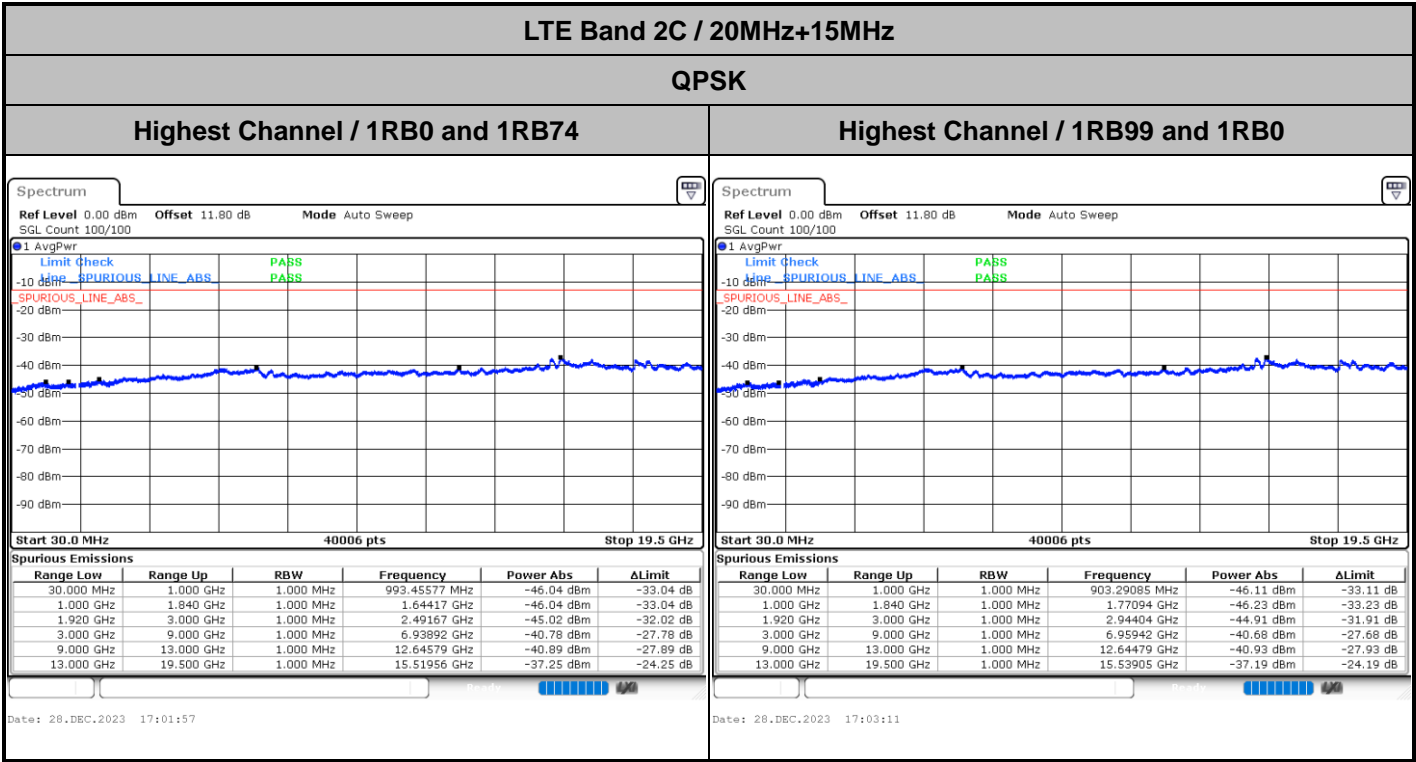
Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 16:46:34

Date: 28.DEC.2023 16:47:47



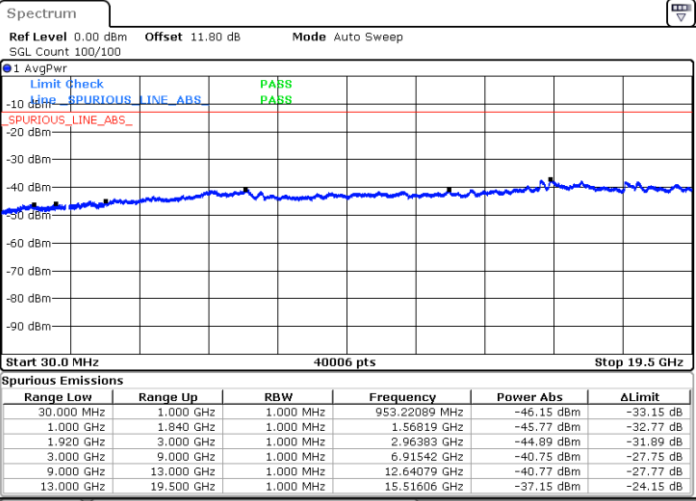
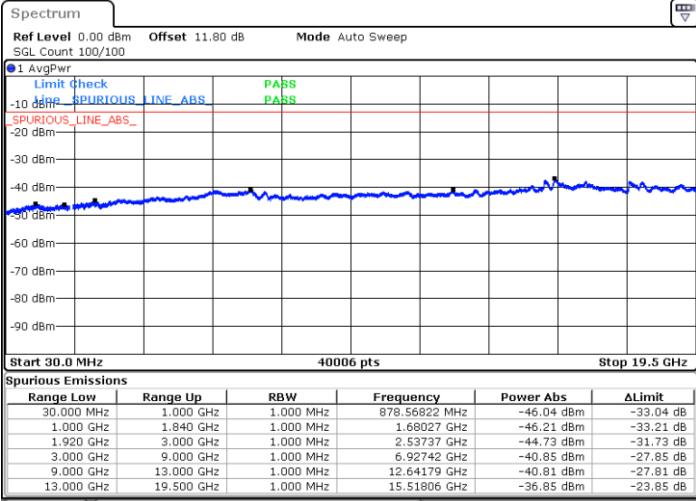


LTE Band 2C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

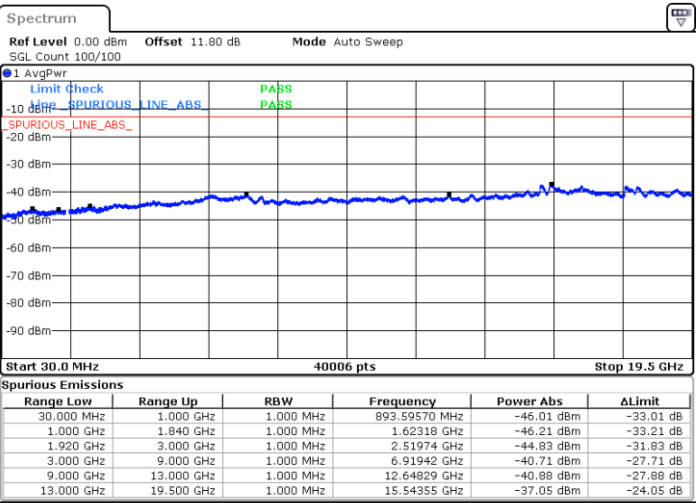
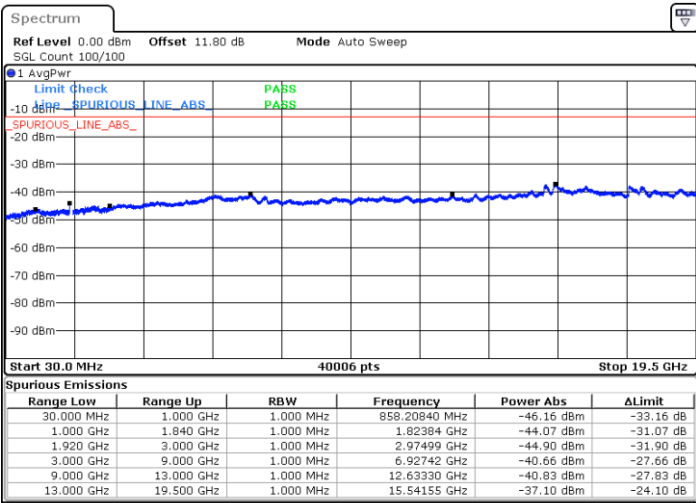


Date: 28.DEC.2023 18:58:45

Date: 28.DEC.2023 18:59:59

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 19:01:16

Date: 28.DEC.2023 19:02:29

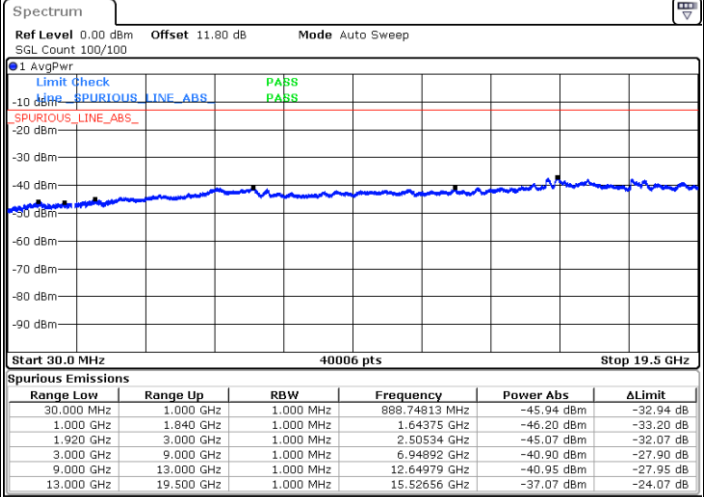
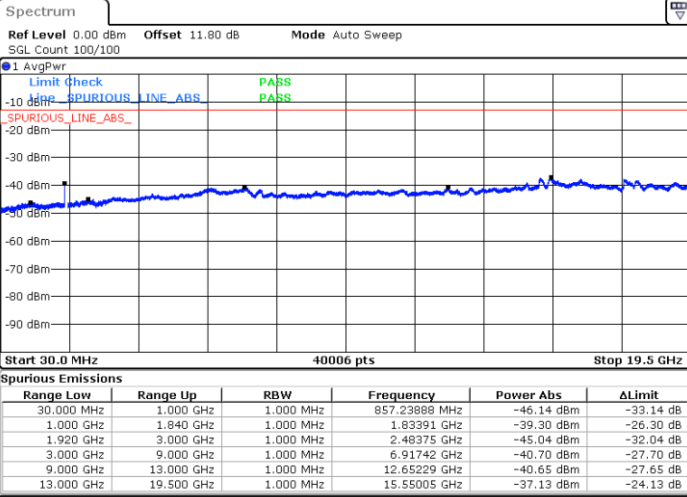


LTE Band 2C / 20MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



Date: 28.DEC.2023 19:16:39

Date: 28.DEC.2023 19:17:52

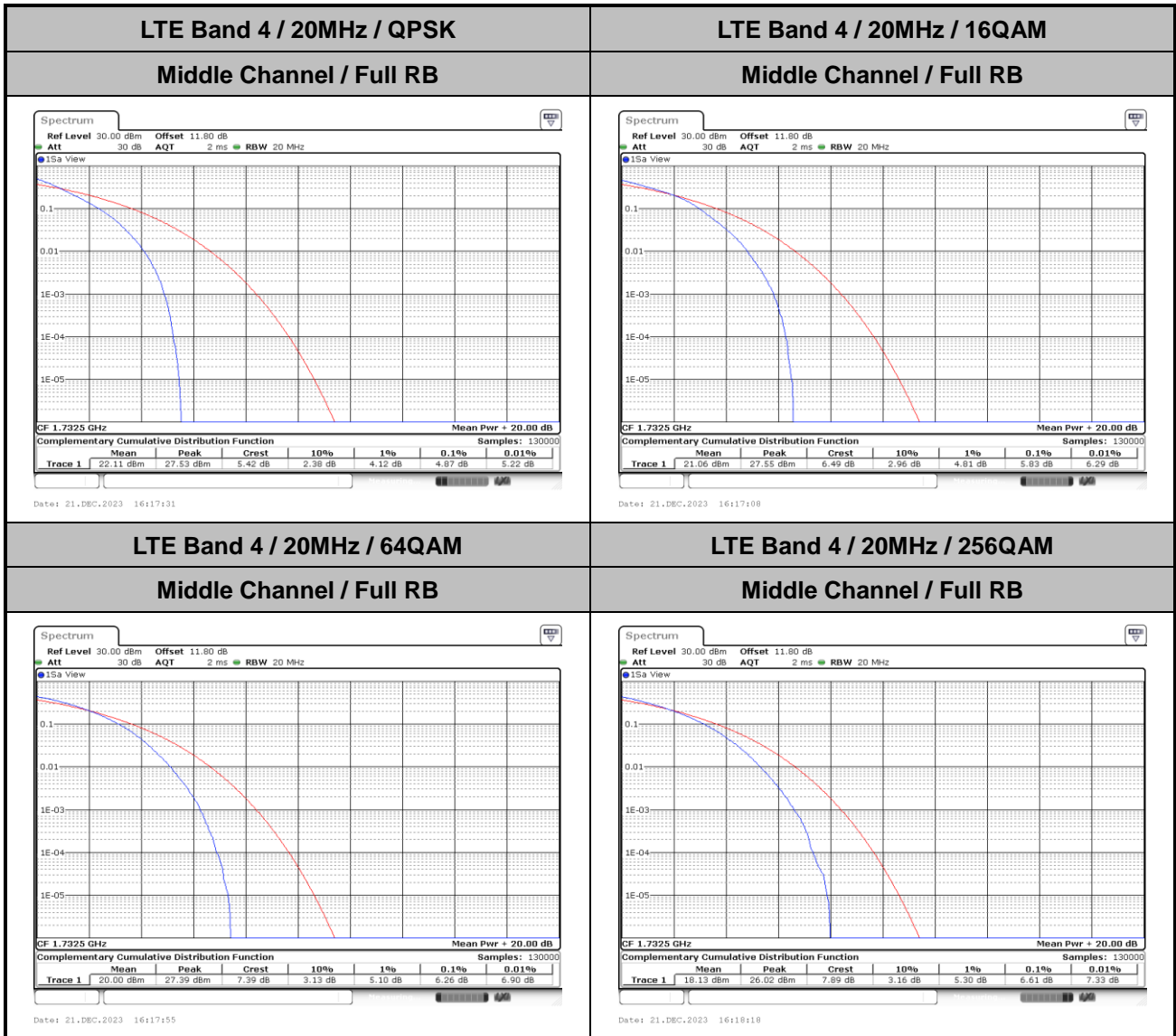




## LTE Band 4

### Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.87	5.83	6.26	6.61	PASS





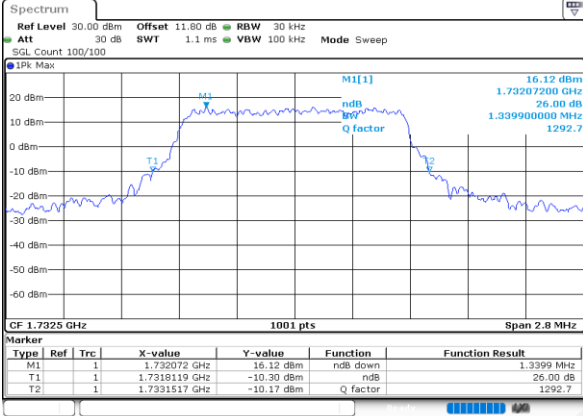
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.33	1.32	3.03	3.05	4.93	5.02	9.73	9.76	14.41	14.47	19.06	19.06
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.35	1.30	3.06	3.06	5.05	4.91	9.78	9.76	14.38	14.53	19.14	19.30



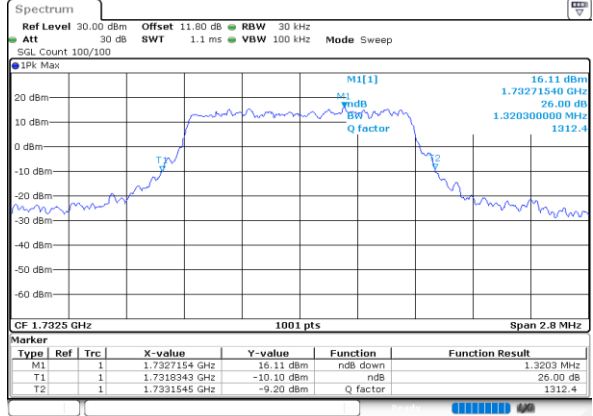
LTE Band 4

Middle Channel / 1.4MHz / QPSK



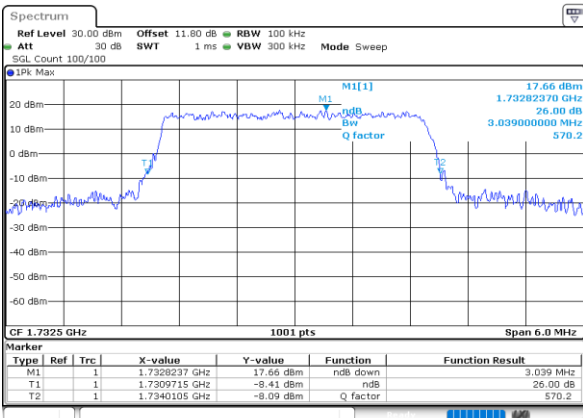
Date: 21.DEC.2023 13:45:51

Middle Channel / 1.4MHz / 16QAM



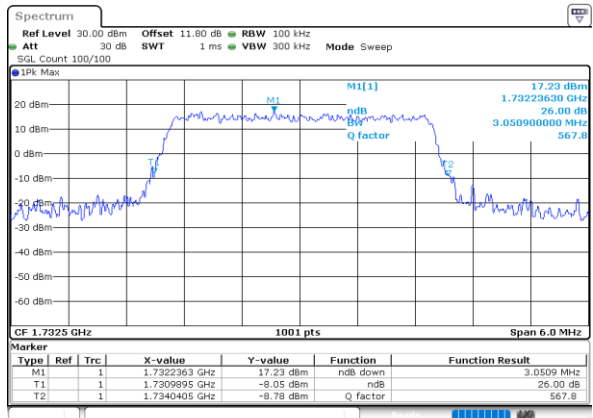
Date: 21.DEC.2023 13:46:14

Middle Channel / 3MHz / QPSK



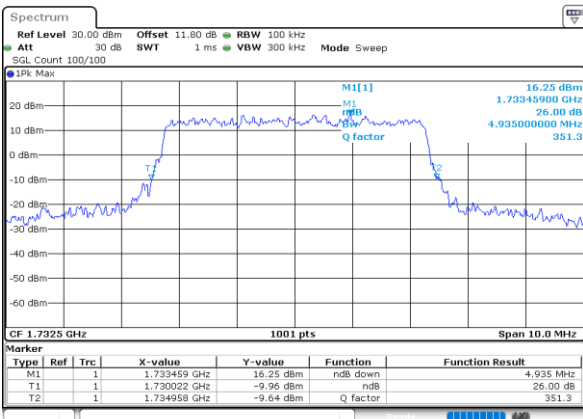
Date: 21.DEC.2023 14:08:15

Middle Channel / 3MHz / 16QAM



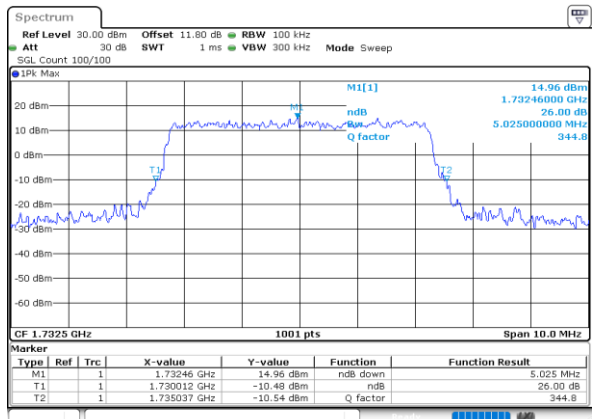
Date: 21.DEC.2023 14:08:38

Middle Channel / 5MHz / QPSK



Date: 21.DEC.2023 14:46:25

Middle Channel / 5MHz / 16QAM

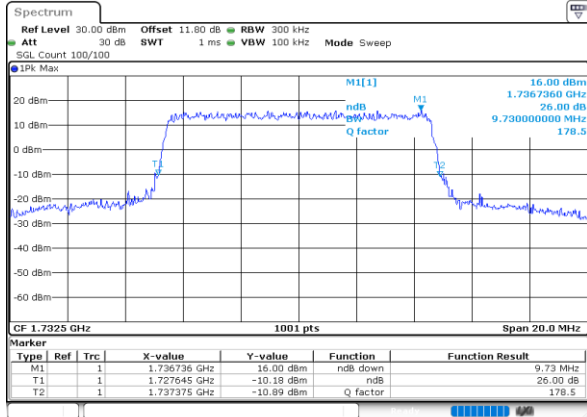


Date: 21.DEC.2023 14:46:47



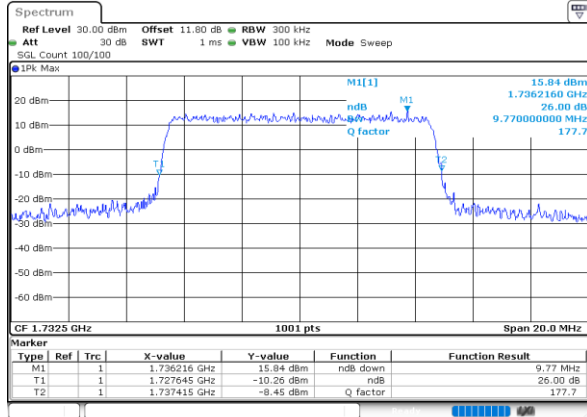
LTE Band 4

Middle Channel / 10MHz / QPSK



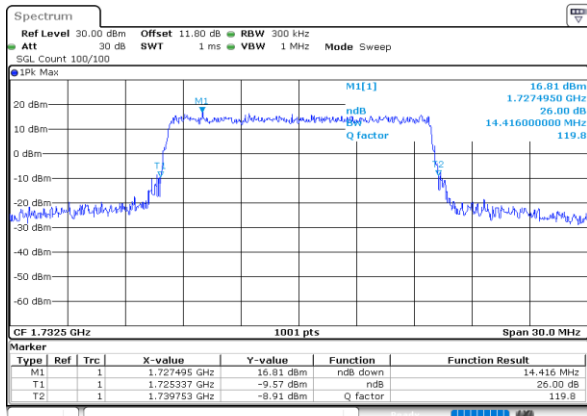
Date: 21.DEC.2023 15:09:05

Middle Channel / 10MHz / 16QAM



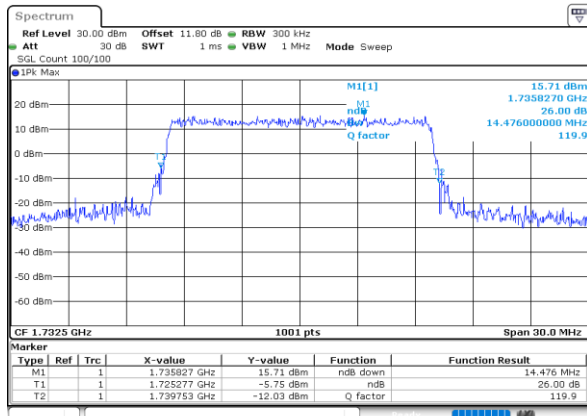
Date: 21.DEC.2023 15:10:28

Middle Channel / 15MHz / QPSK



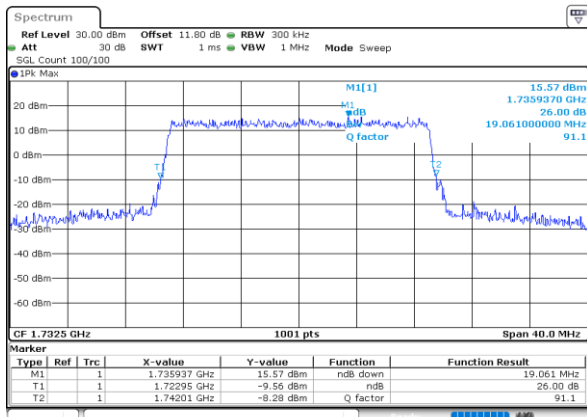
Date: 21.DEC.2023 15:35:22

Middle Channel / 15MHz / 16QAM



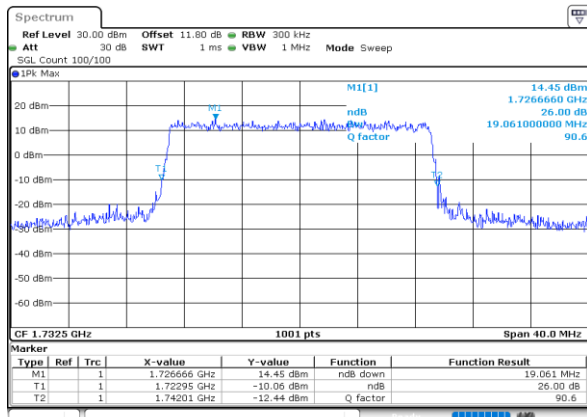
Date: 21.DEC.2023 15:35:44

Middle Channel / 20MHz / QPSK



Date: 21.DEC.2023 16:04:28

Middle Channel / 20MHz / 16QAM

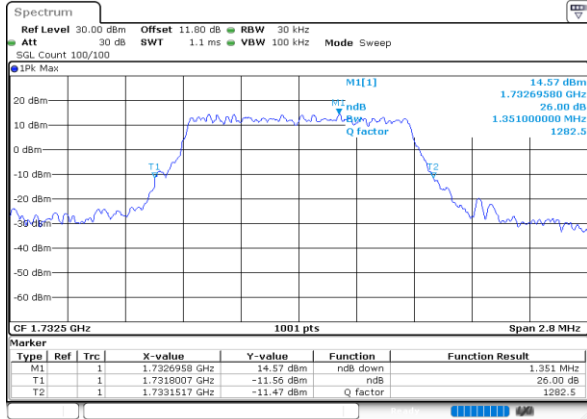


Date: 21.DEC.2023 16:04:51



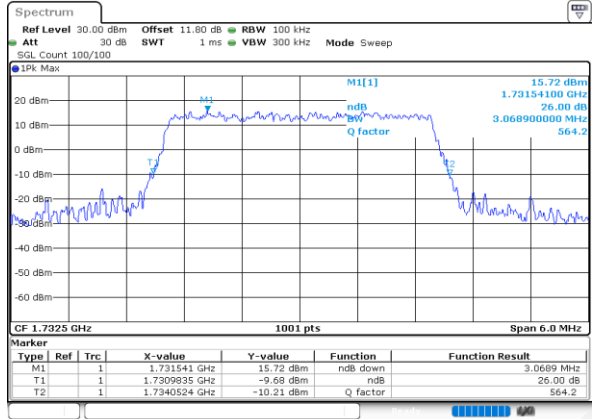
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



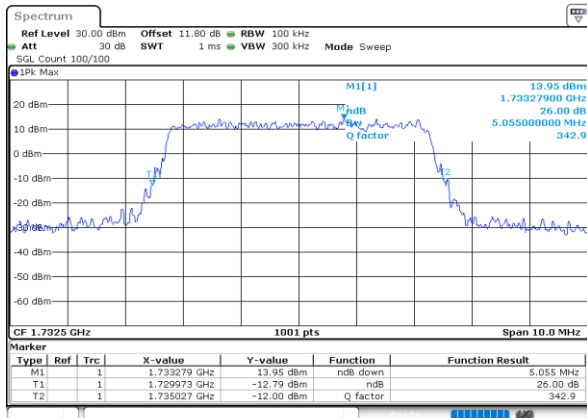
Date: 21.DEC.2023 13:47:21

Middle Channel / 3MHz / 64QAM



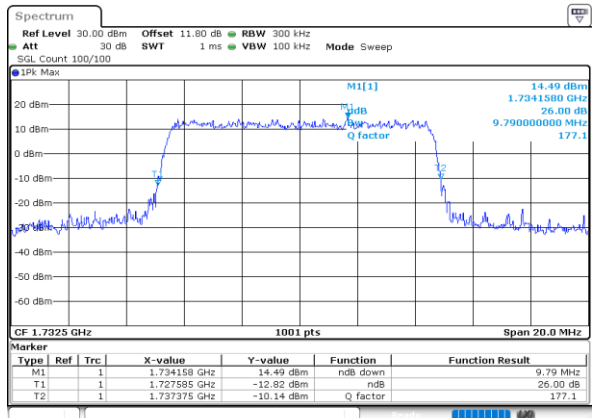
Date: 21.DEC.2023 14:09:45

Middle Channel / 5MHz / 64QAM



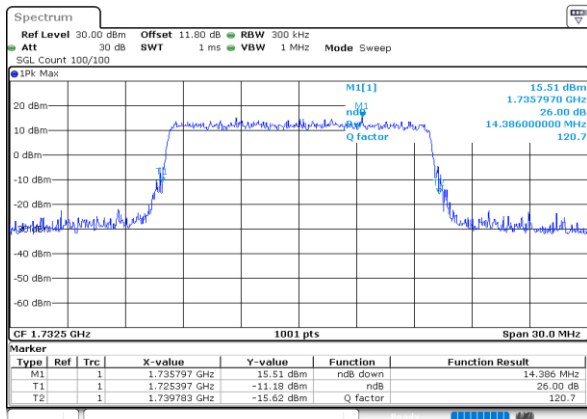
Date: 21.DEC.2023 14:47:55

Middle Channel / 10MHz / 64QAM



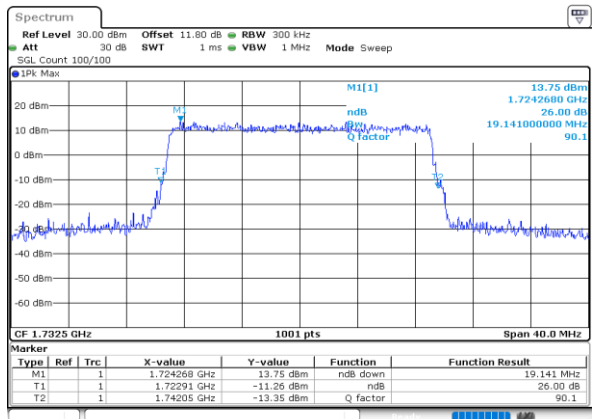
Date: 21.DEC.2023 15:10:35

Middle Channel / 15MHz / 64QAM



Date: 21.DEC.2023 15:36:52

Middle Channel / 20MHz / 64QAM

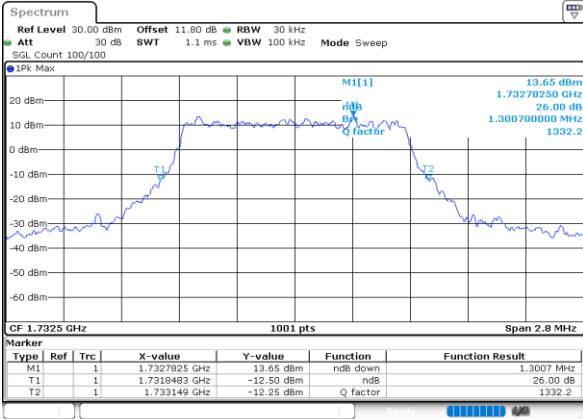


Date: 21.DEC.2023 16:05:58



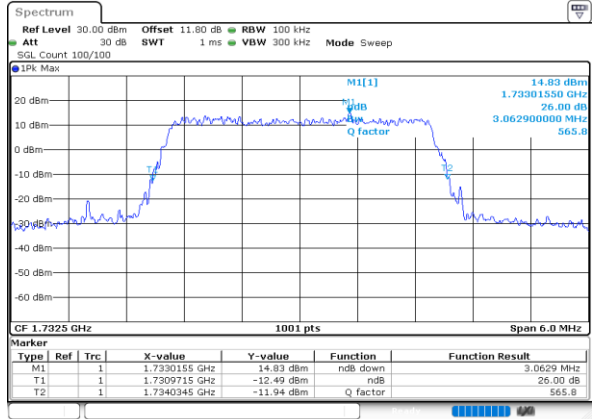
LTE Band 4

Middle Channel / 1.4MHz / 256QAM



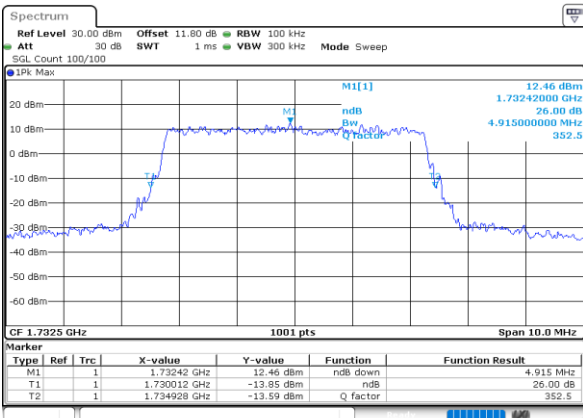
Date: 21.DEC.2023 13:47:44

Middle Channel / 3MHz / 256QAM



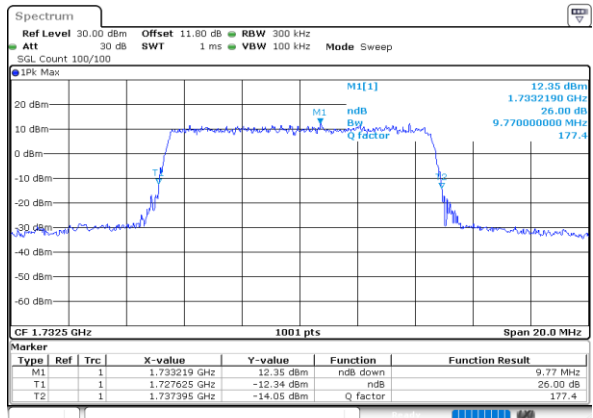
Date: 21.DEC.2023 14:10:08

Middle Channel / 5MHz / 256QAM



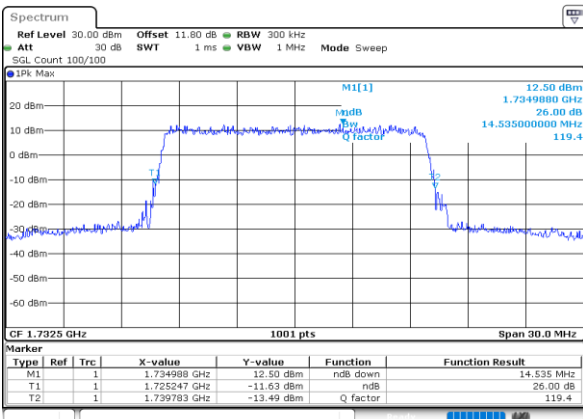
Date: 21.DEC.2023 14:48:17

Middle Channel / 10MHz / 256QAM



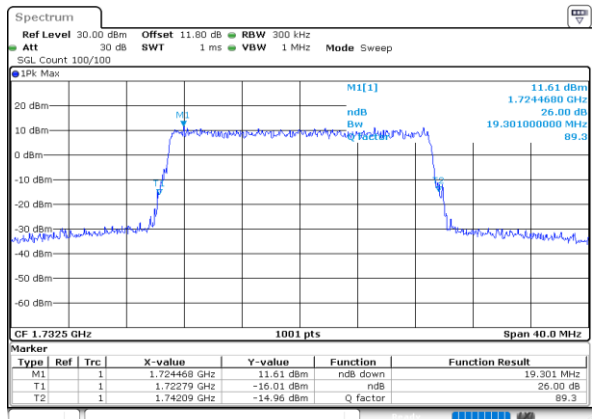
Date: 21.DEC.2023 15:10:57

Middle Channel / 15MHz / 256QAM



Date: 21.DEC.2023 15:37:14

Middle Channel / 20MHz / 256QAM



Date: 21.DEC.2023 16:10:20



**Occupied Bandwidth**

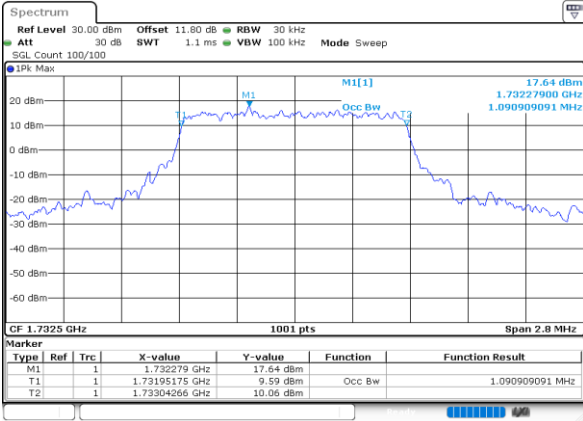
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.72	2.73	4.49	4.49	9.09	9.09	13.45	13.45	17.90	17.90
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.09	1.09	2.72	2.73	4.48	4.52	9.11	9.09	13.45	13.48	17.90	17.86





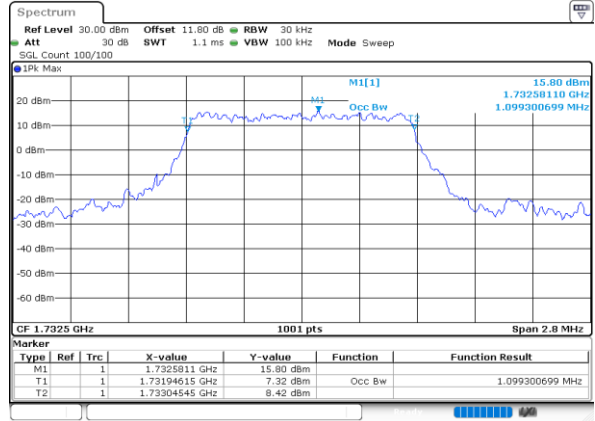
LTE Band 4

Middle Channel / 1.4MHz / QPSK



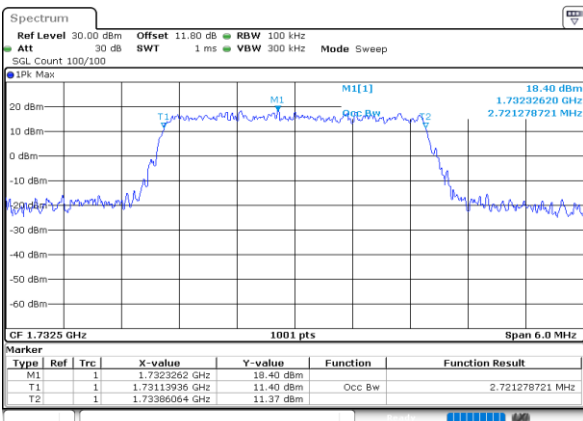
Date: 21.DEC.2023 13:45:29

Middle Channel / 1.4MHz / 16QAM



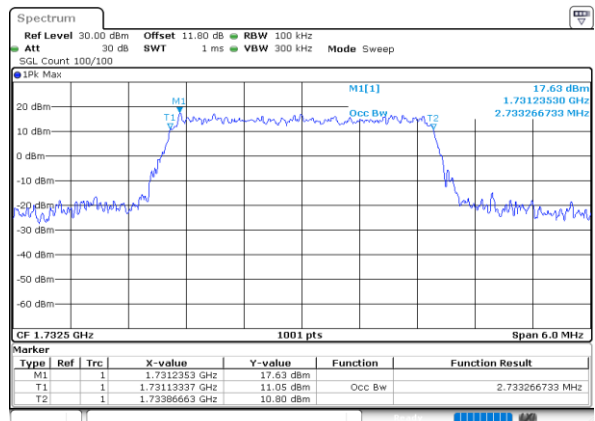
Date: 21.DEC.2023 13:46:36

Middle Channel / 3MHz / QPSK



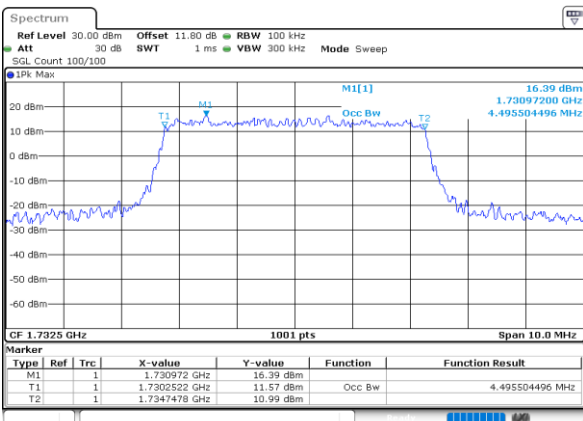
Date: 21.DEC.2023 14:07:52

Middle Channel / 3MHz / 16QAM



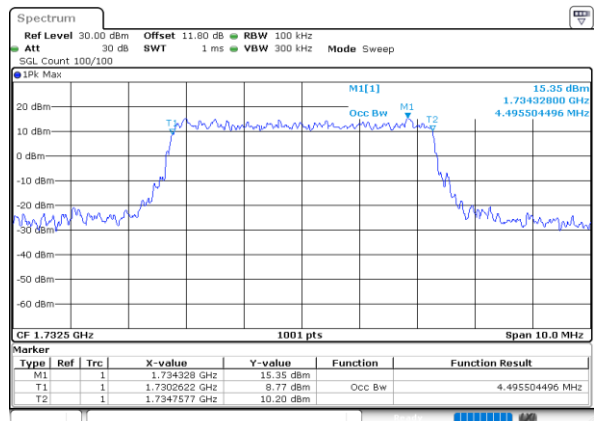
Date: 21.DEC.2023 14:09:00

Middle Channel / 5MHz / QPSK



Date: 21.DEC.2023 14:46:02

Middle Channel / 5MHz / 16QAM

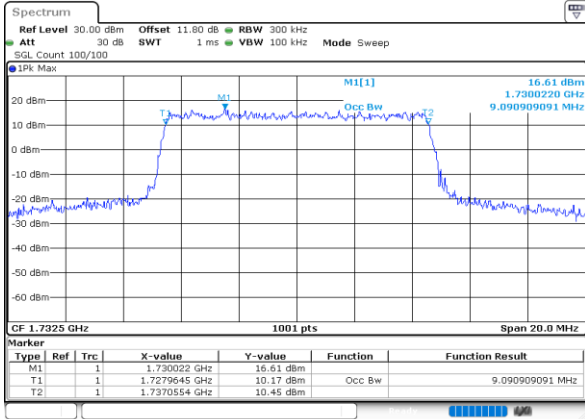


Date: 21.DEC.2023 14:47:10



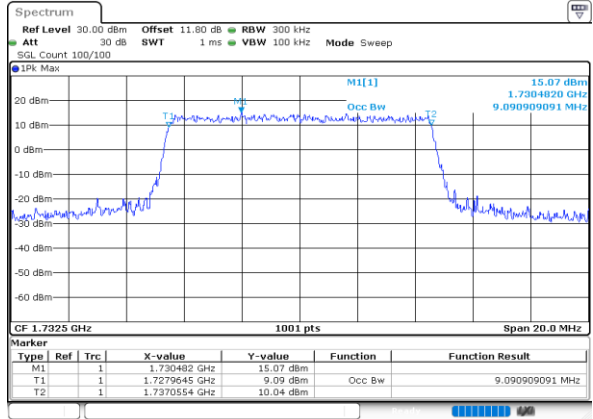
LTE Band 4

Middle Channel / 10MHz / QPSK



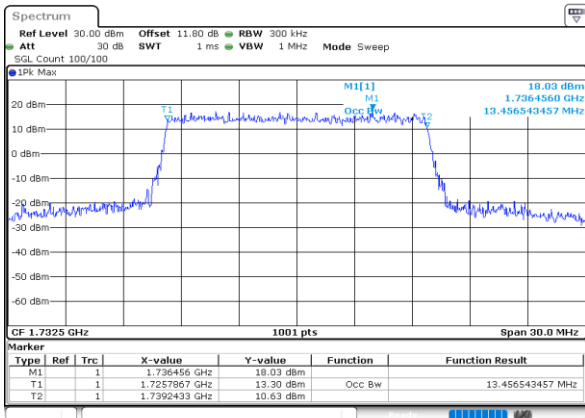
Date: 21.DEC.2023 15:08:43

Middle Channel / 10MHz / 16QAM



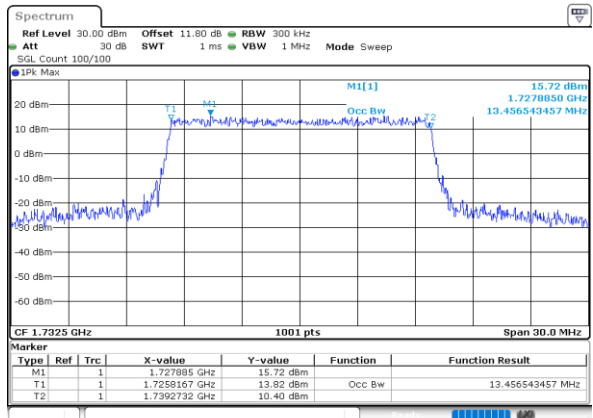
Date: 21.DEC.2023 15:10:50

Middle Channel / 15MHz / QPSK



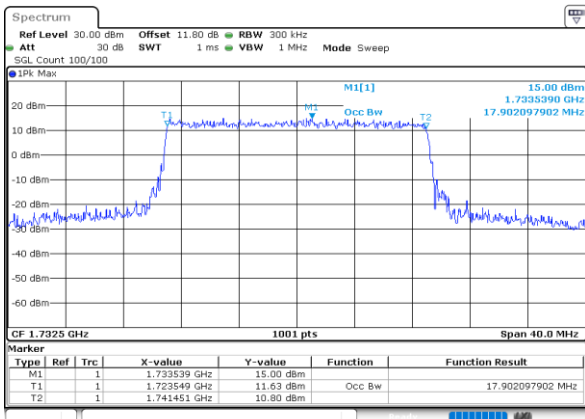
Date: 21.DEC.2023 15:35:00

Middle Channel / 15MHz / 16QAM



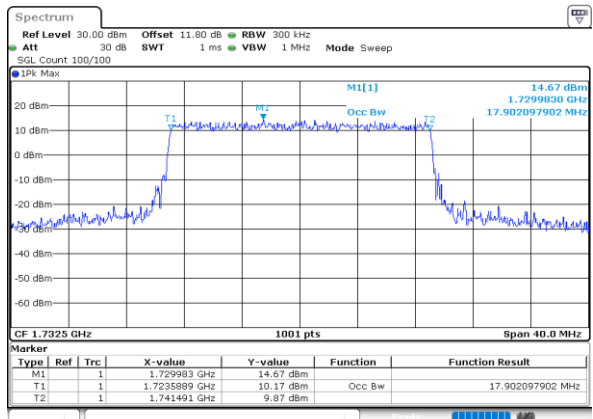
Date: 21.DEC.2023 15:36:07

Middle Channel / 20MHz / QPSK



Date: 21.DEC.2023 16:04:06

Middle Channel / 20MHz / 16QAM

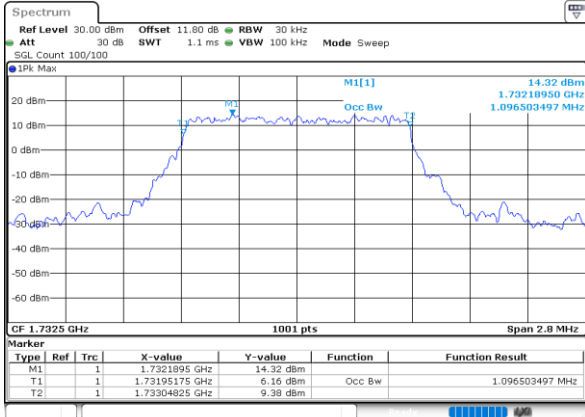


Date: 21.DEC.2023 16:05:13



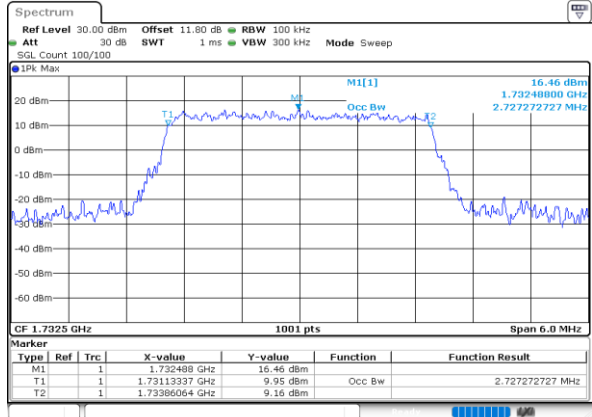
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



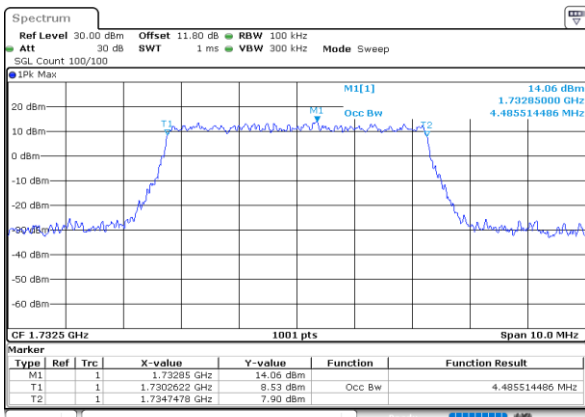
Date: 21.DEC.2023 13:46:59

Middle Channel / 3MHz / 64QAM



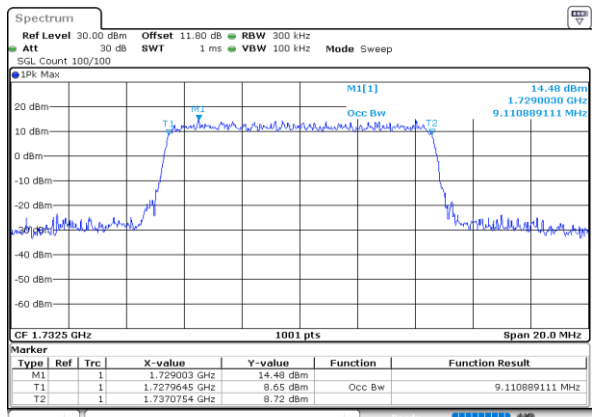
Date: 21.DEC.2023 14:09:23

Middle Channel / 5MHz / 64QAM



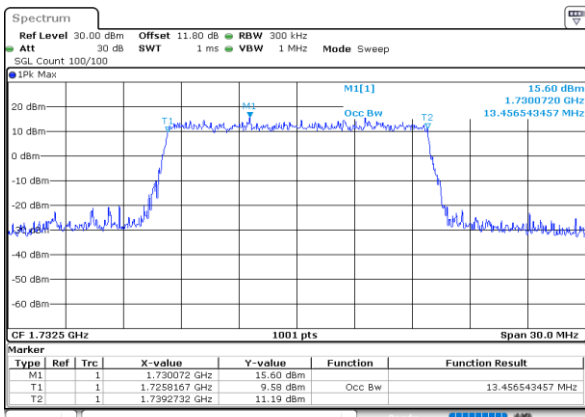
Date: 21.DEC.2023 14:47:32

Middle Channel / 10MHz / 64QAM



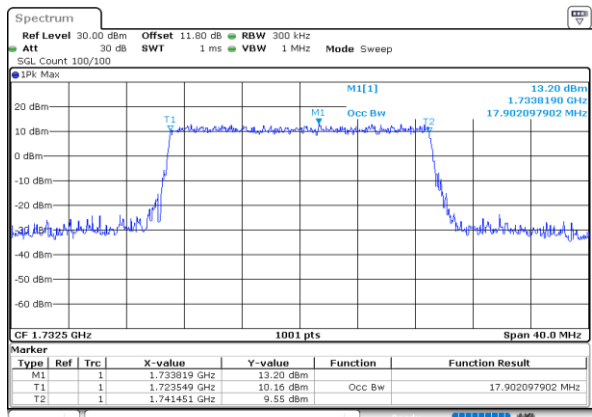
Date: 21.DEC.2023 15:10:12

Middle Channel / 15MHz / 64QAM



Date: 21.DEC.2023 15:36:29

Middle Channel / 20MHz / 64QAM

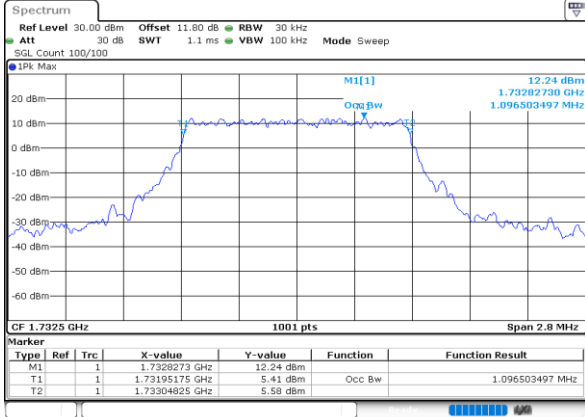


Date: 21.DEC.2023 16:05:35

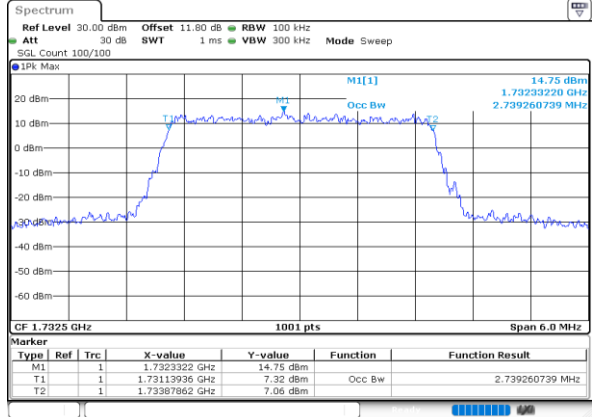


LTE Band 4

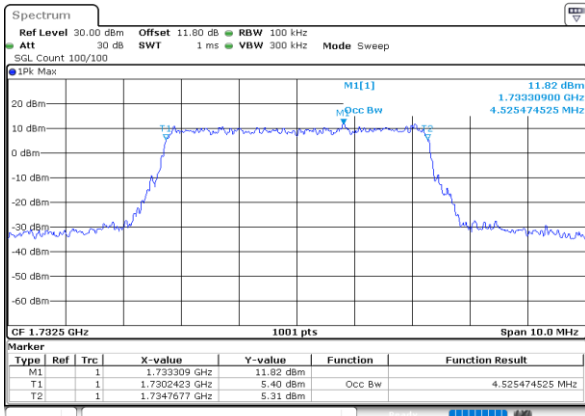
Middle Channel / 1.4MHz / 256QAM



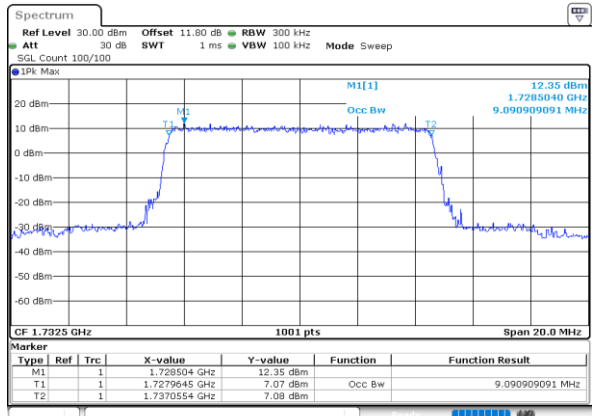
Middle Channel / 3MHz / 256QAM



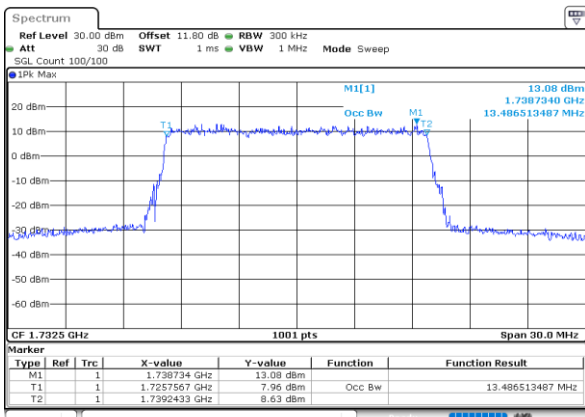
Middle Channel / 5MHz / 256QAM



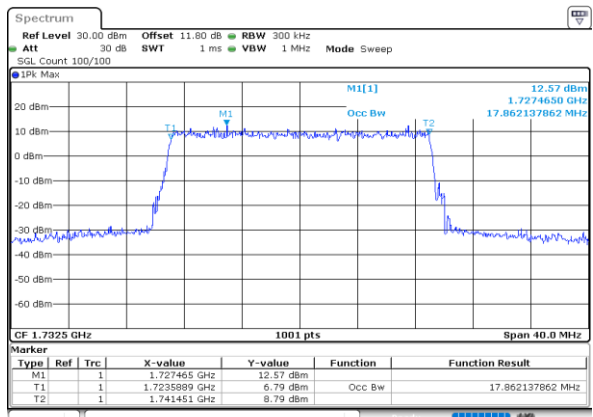
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM





# Conducted Band Edge

