



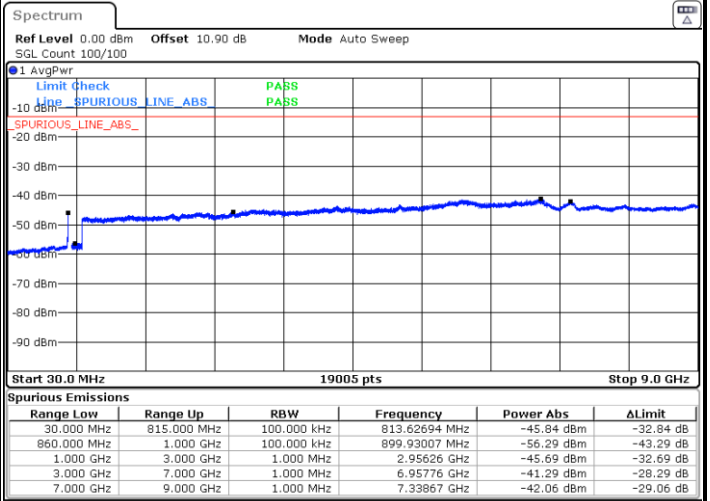
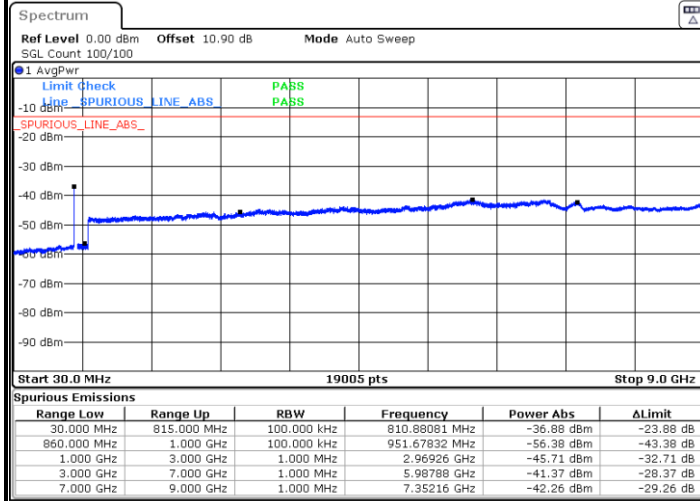
Conducted Spurious Emission

LTE Band 5B / 5MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB24 and 1RB0

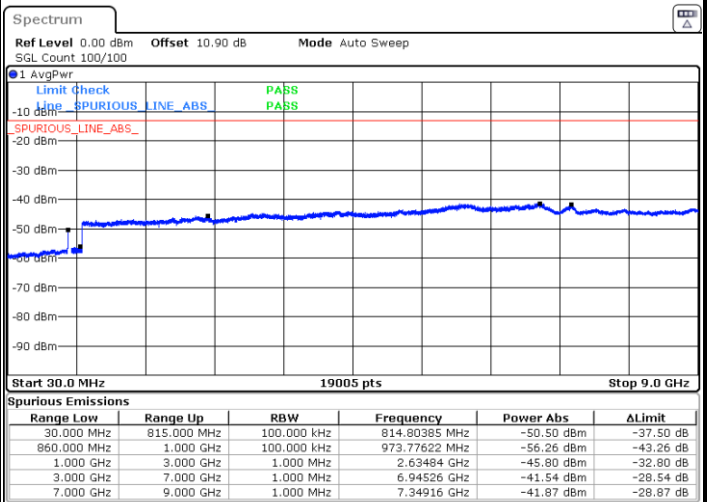
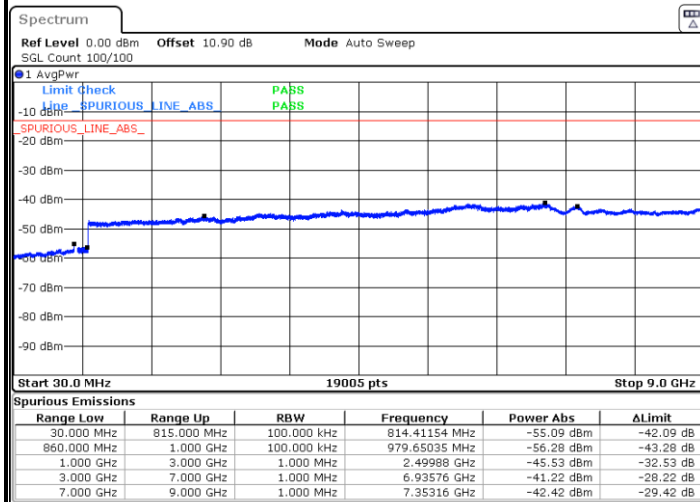


Date: 2.AUG.2023 10:00:07

Date: 2.AUG.2023 09:58:52

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB24 and 1RB0



Date: 2.AUG.2023 10:05:12

Date: 2.AUG.2023 10:06:28

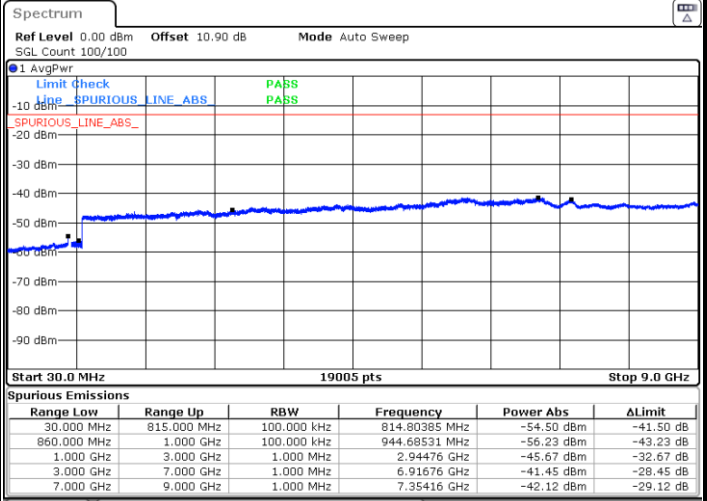
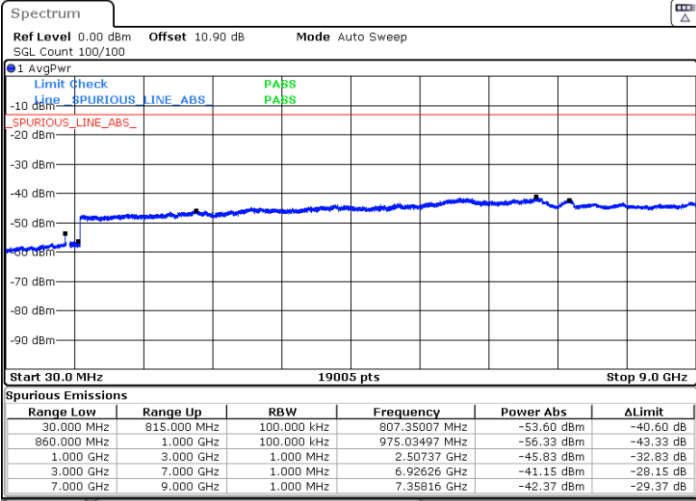


LTE Band 5B / 5MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB24 and 1RB0



Date: 2.AUG.2023 09:47:16

Date: 2.AUG.2023 09:46:00

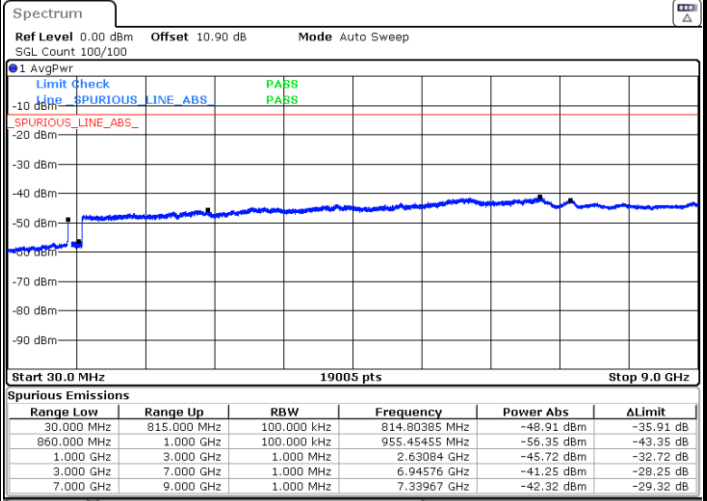
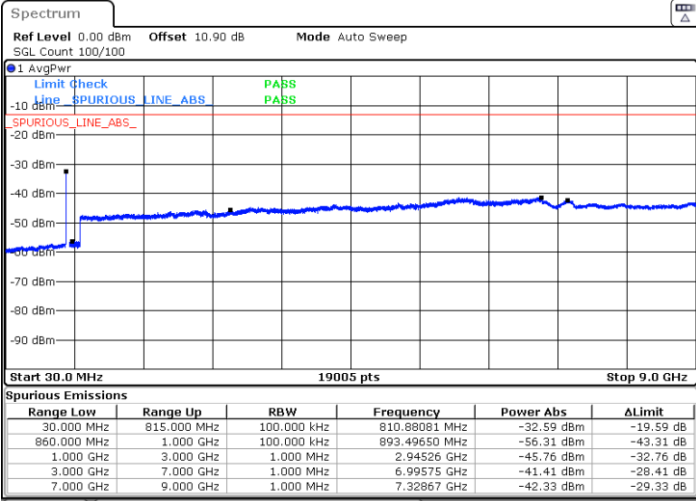


LTE Band 5B / 10MHz+5MHz

QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB49 and 1RB0

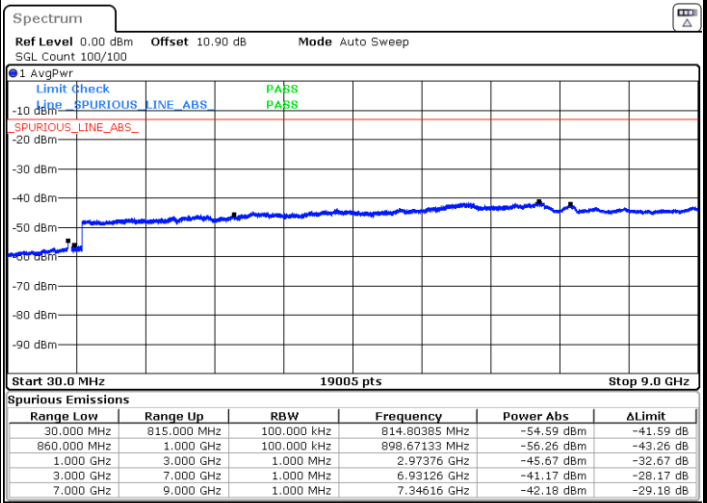
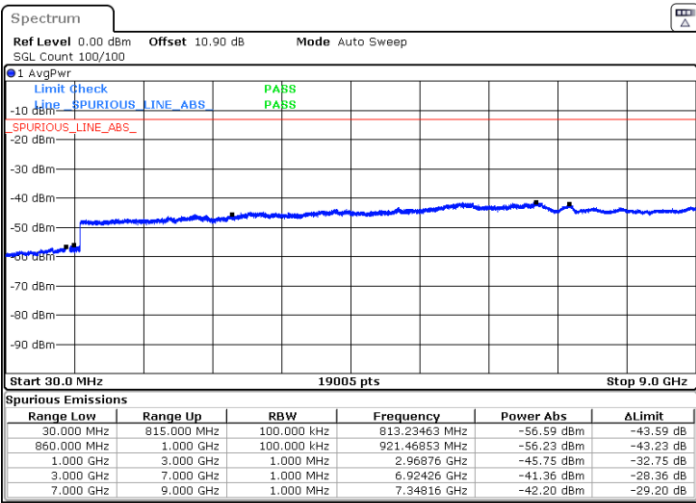


Date: 2.AUG.2023 10:32:05

Date: 2.AUG.2023 10:30:49

Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB49 and 1RB0



Date: 2.AUG.2023 10:37:10

Date: 2.AUG.2023 10:38:25

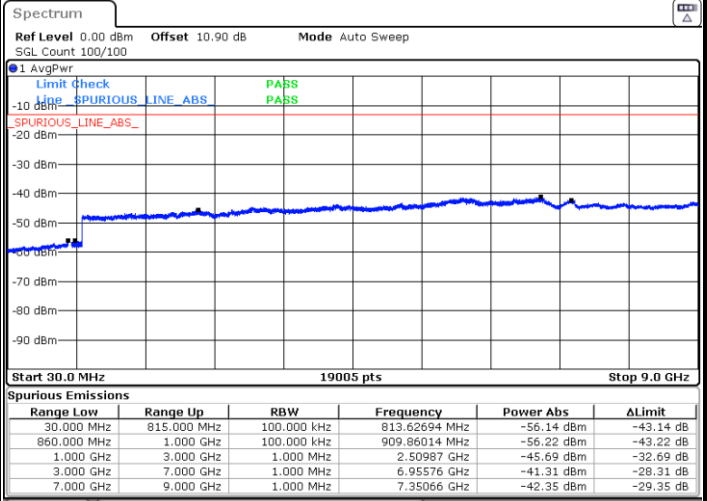
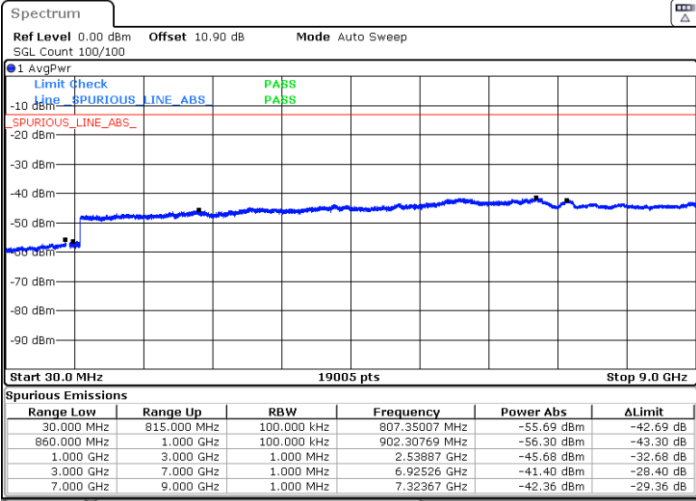


LTE Band 5B / 10MHz+5MHz

QPSK

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB49 and 1RB0



Date: 2.AUG.2023 10:19:12

Date: 2.AUG.2023 10:17:57

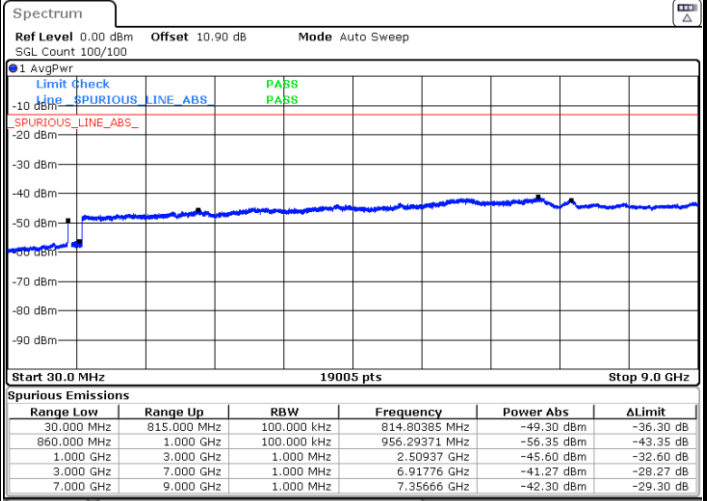
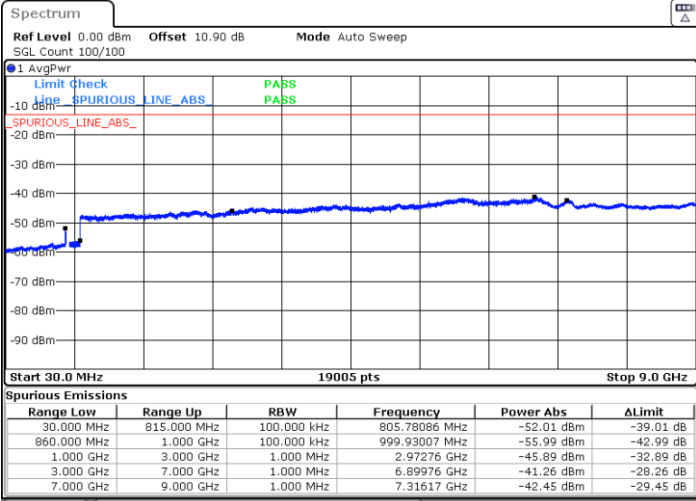


LTE Band 5B / 10MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0

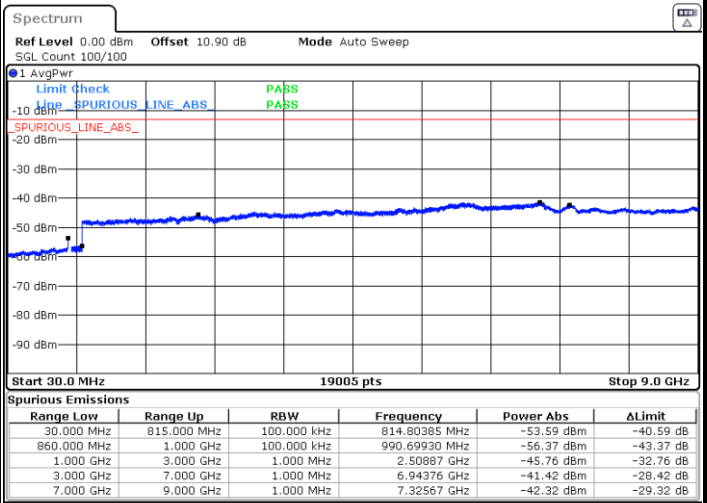
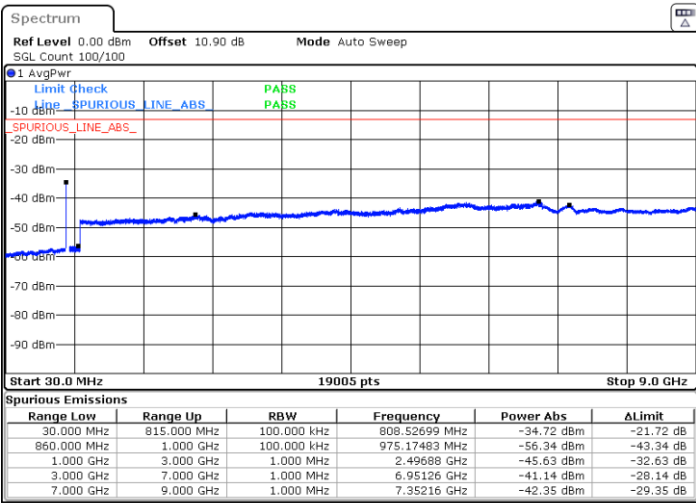


Date: 2.AUG.2023 11:02:00

Date: 2.AUG.2023 11:00:49

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



Date: 2.AUG.2023 11:08:20

Date: 2.AUG.2023 11:09:30

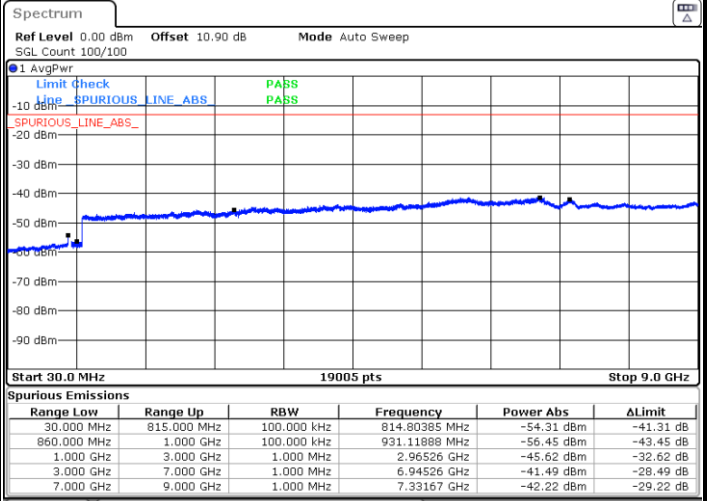
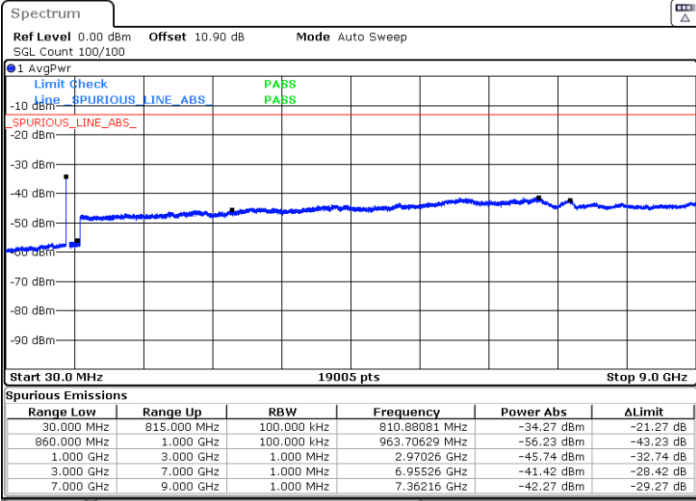


LTE Band 5B / 10MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Date: 2.AUG.2023 10:50:06

Date: 2.AUG.2023 10:48:56



LTE Band 7

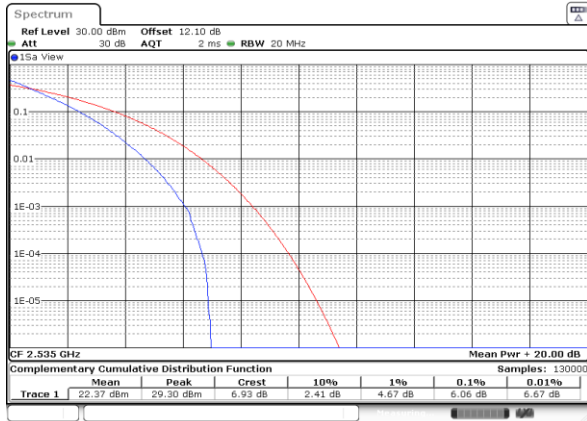
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.06	6.14	6.41	6.81	PASS



LTE Band 7 / 20MHz / QPSK

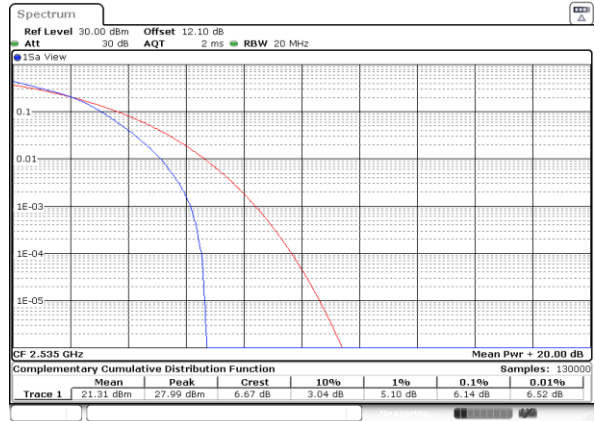
Middle Channel / Full RB



Date: 1.AUG.2023 09:13:33

LTE Band 7 / 20MHz / 16QAM

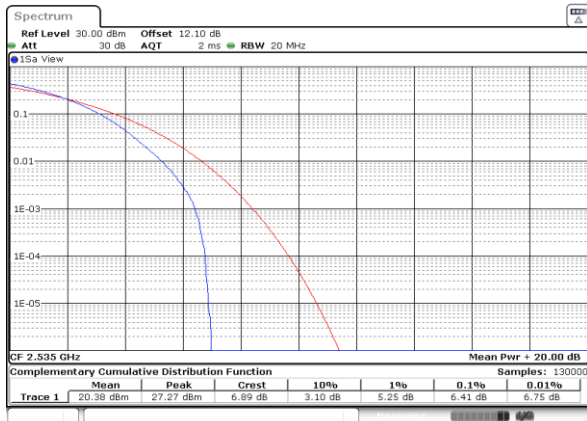
Middle Channel / Full RB



Date: 1.AUG.2023 09:13:03

LTE Band 7 / 20MHz / 64QAM

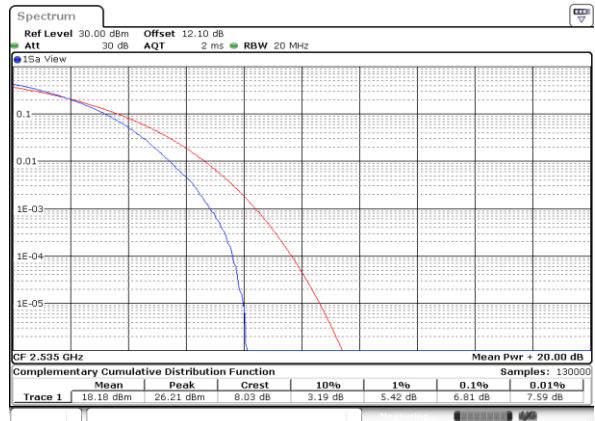
Middle Channel / Full RB



Date: 1.AUG.2023 09:14:04

LTE Band 7 / 20MHz / 256QAM

Middle Channel / Full RB



Date: 4.AUG.2023 00:14:50



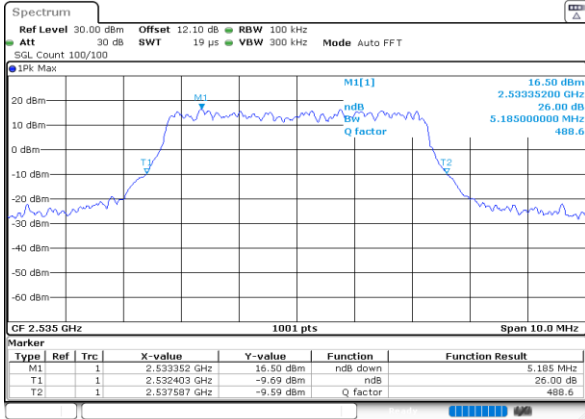
26dB Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	5.19	5.16	10.33	10.69	15.32	14.51	19.38	19.34
Mode	LTE Band 7 : 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	-	-	-	-	4.94	5.14	10.13	9.87	14.54	15.14	19.50	18.98



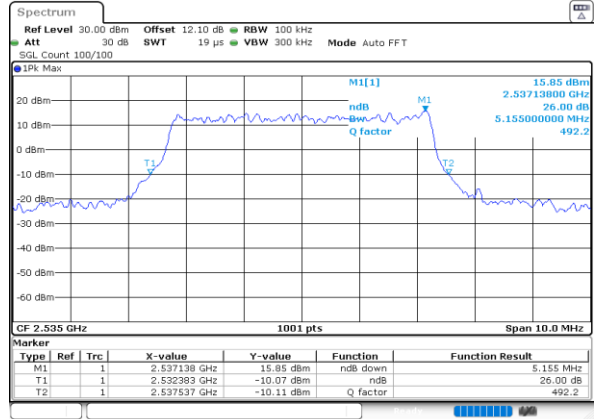
LTE Band 7

Middle Channel / 5MHz / QPSK



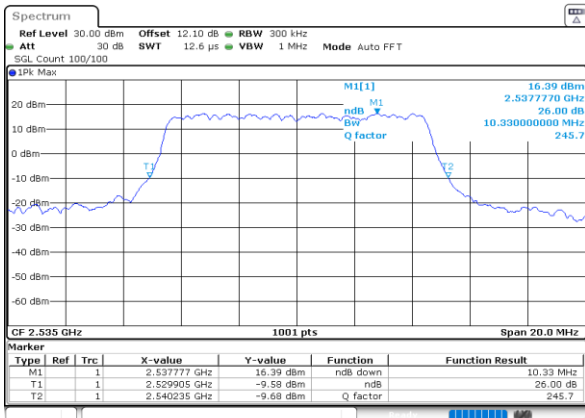
Date: 1.AUG.2023 08:29:22

Middle Channel / 5MHz / 16QAM



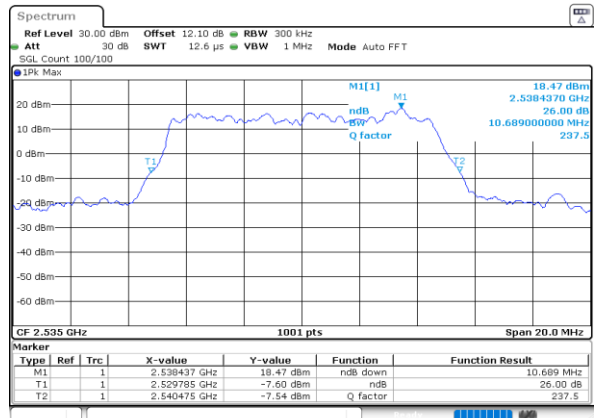
Date: 1.AUG.2023 08:29:51

Middle Channel / 10MHz / QPSK



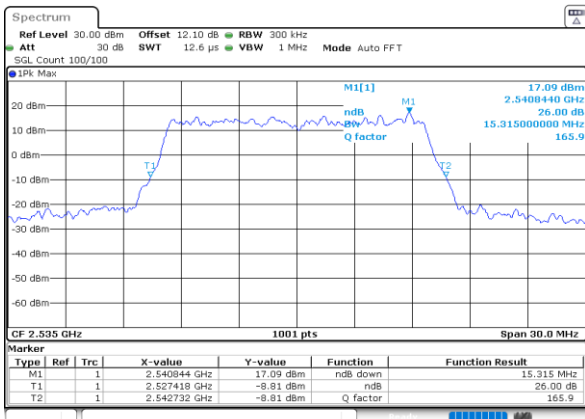
Date: 1.AUG.2023 08:14:12

Middle Channel / 10MHz / 16QAM



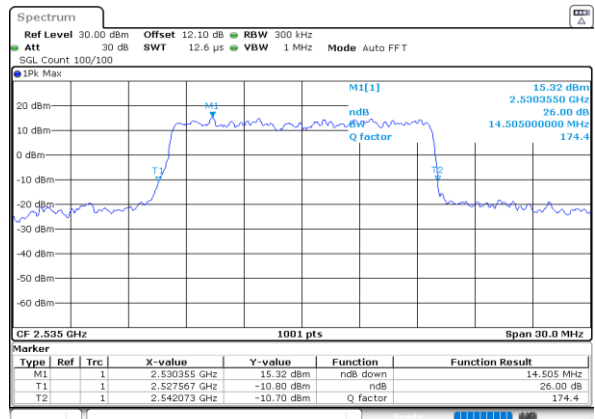
Date: 1.AUG.2023 08:14:41

Middle Channel / 15MHz / QPSK



Date: 1.AUG.2023 08:15:48

Middle Channel / 15MHz / 16QAM

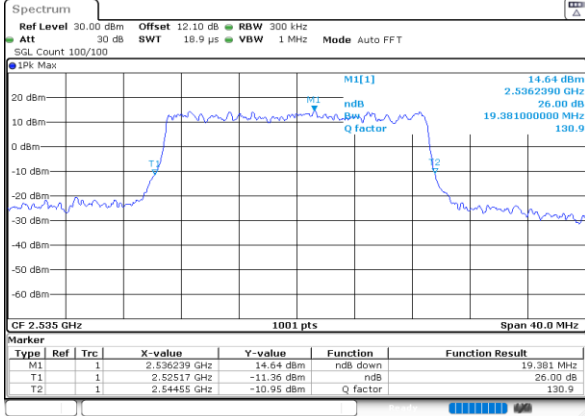


Date: 1.AUG.2023 08:15:17



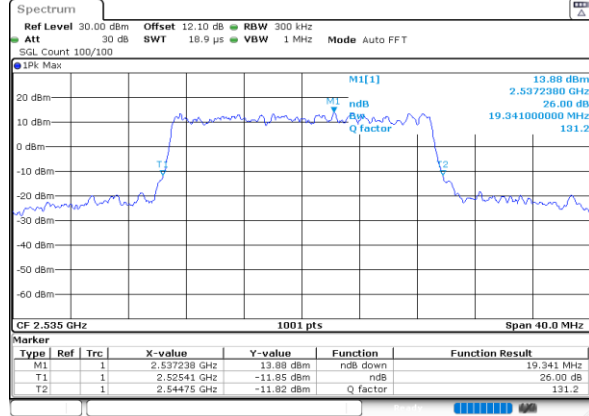
LTE Band 7

Middle Channel / 20MHz / QPSK



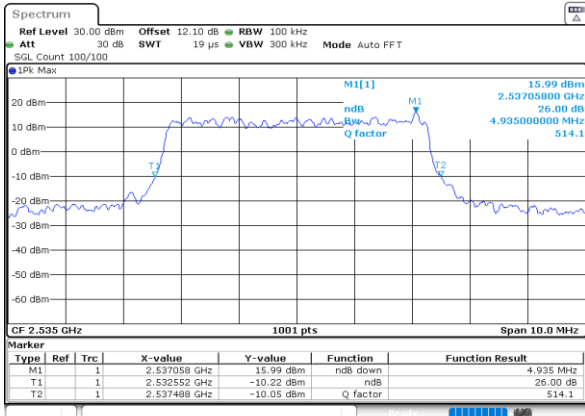
Date: 1.AUG.2023 09:07:24

Middle Channel / 20MHz / 16QAM



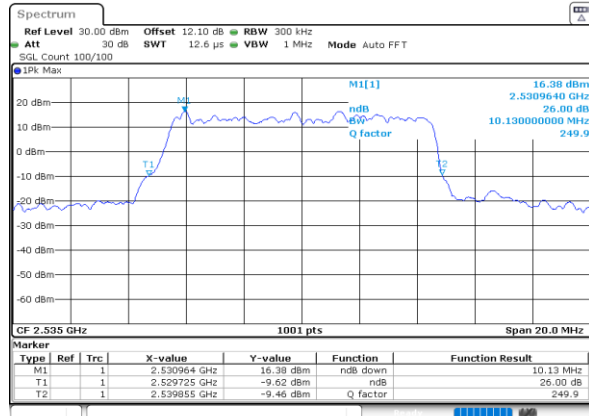
Date: 1.AUG.2023 09:07:52

Middle Channel / 5MHz / 64QAM



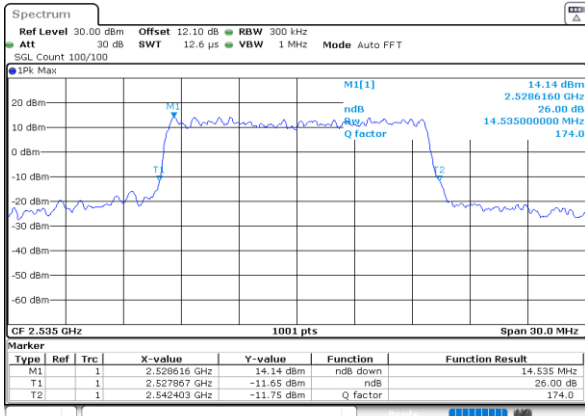
Date: 1.AUG.2023 08:13:47

Middle Channel / 10MHz / 64QAM



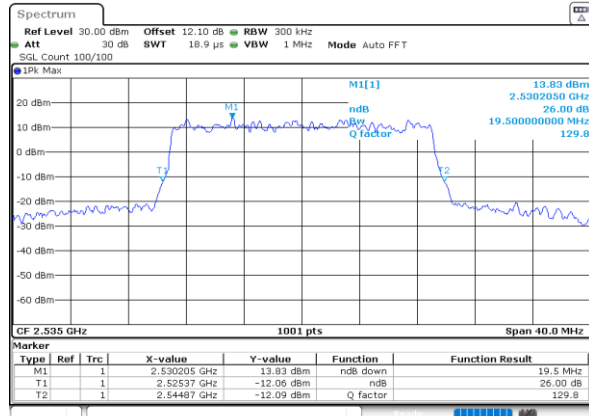
Date: 1.AUG.2023 08:50:23

Middle Channel / 15MHz / 64QAM



Date: 1.AUG.2023 09:00:59

Middle Channel / 20MHz / 64QAM

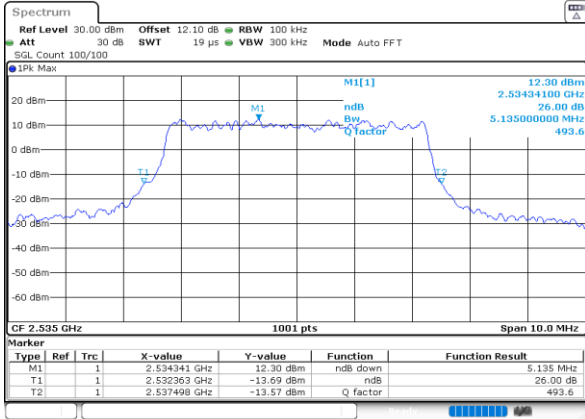


Date: 1.AUG.2023 09:11:34



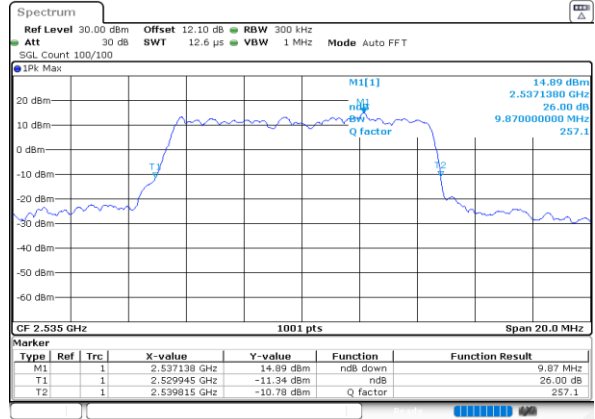
LTE Band 7

Middle Channel / 5MHz / 256QAM



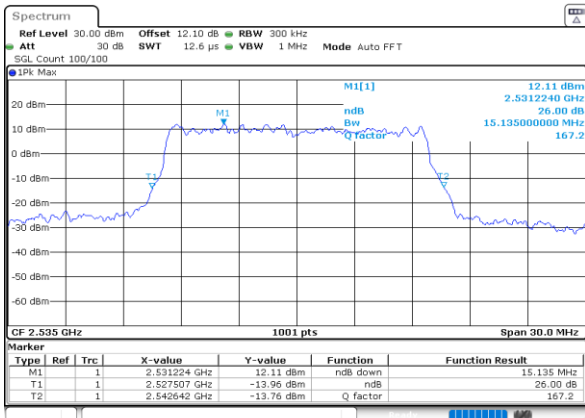
Date: 1.AUG.2023 09:16:52

Middle Channel / 10MHz / 256QAM



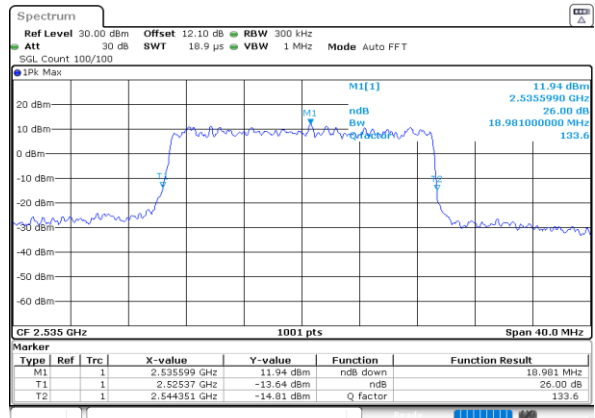
Date: 1.AUG.2023 09:20:39

Middle Channel / 15MHz / 256QAM



Date: 1.AUG.2023 09:12:16

Middle Channel / 20MHz / 256QAM



Date: 1.AUG.2023 09:26:13



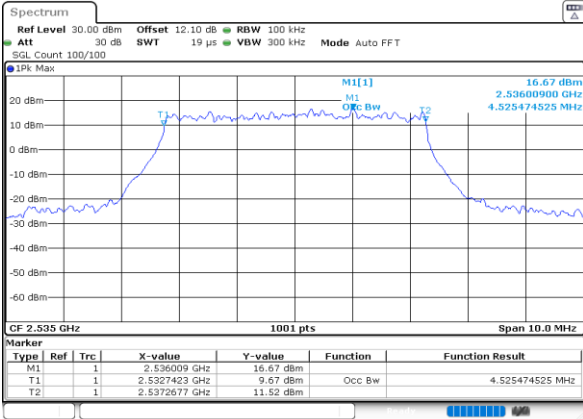
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.53	4.52	9.05	9.01	13.43	13.43	17.98	17.90
Mode	LTE Band 7 : 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	-	-	-	-	4.51	4.50	9.05	9.07	13.43	13.49	17.90	17.98



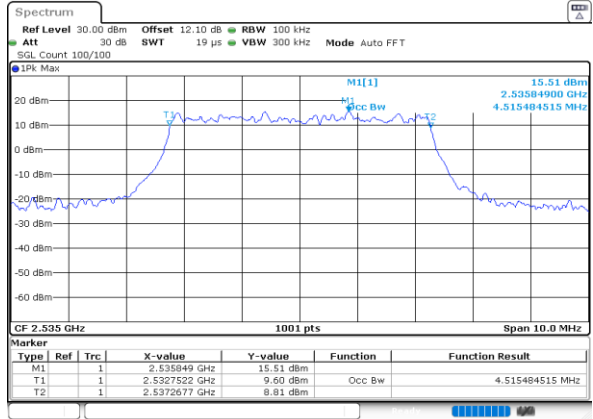
LTE Band 7

Middle Channel / 5MHz / QPSK



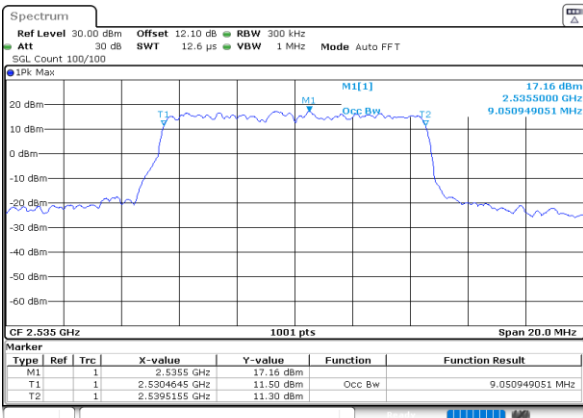
Date: 1.AUG.2023 08:28:25

Middle Channel / 5MHz / 16QAM



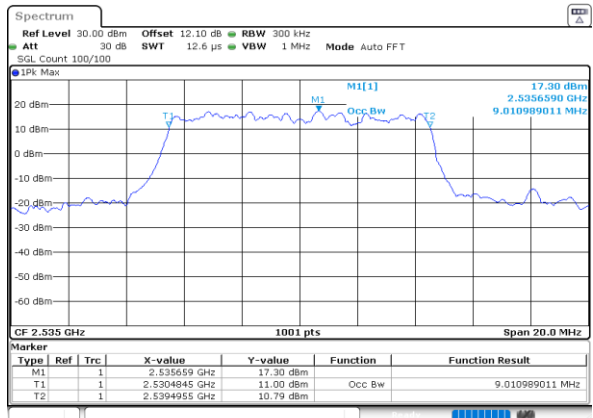
Date: 1.AUG.2023 08:28:54

Middle Channel / 10MHz / QPSK



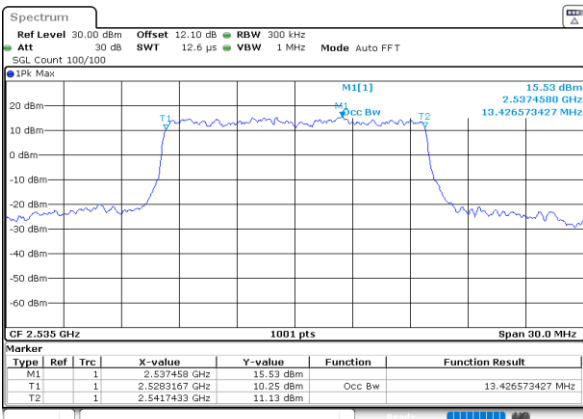
Date: 1.AUG.2023 08:45:14

Middle Channel / 10MHz / 16QAM



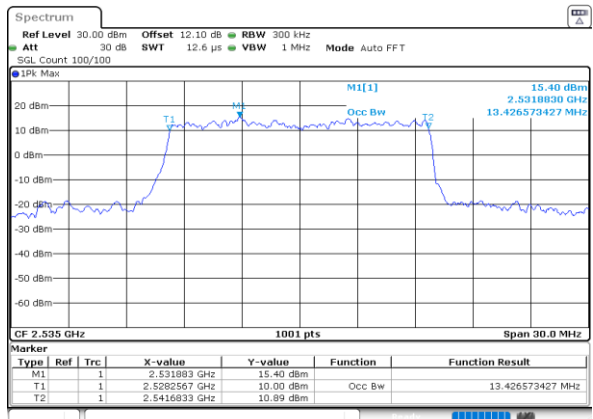
Date: 1.AUG.2023 08:45:43

Middle Channel / 15MHz / QPSK



Date: 1.AUG.2023 08:55:51

Middle Channel / 15MHz / 16QAM

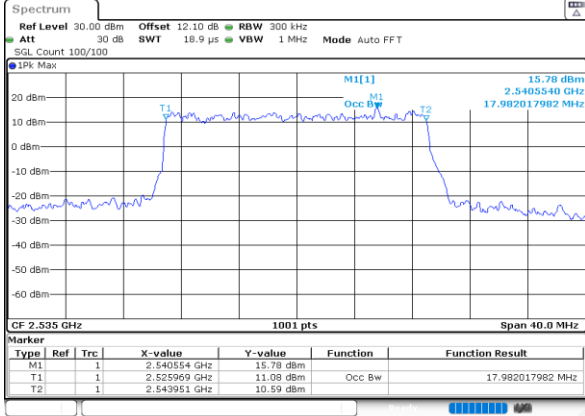


Date: 1.AUG.2023 08:56:19



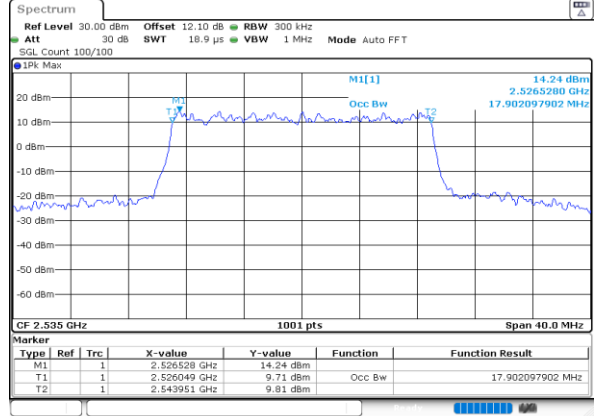
LTE Band 7

Middle Channel / 20MHz / QPSK



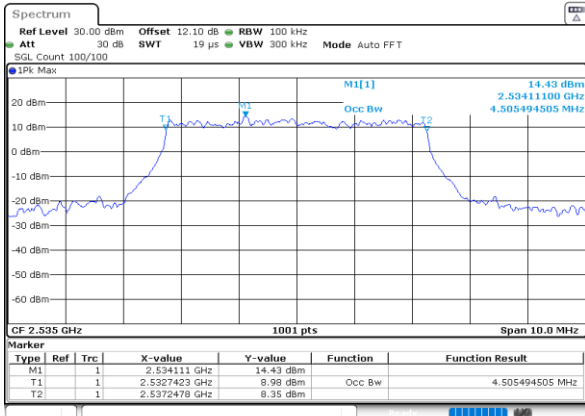
Date: 1.AUG.2023 09:06:26

Middle Channel / 20MHz / 16QAM



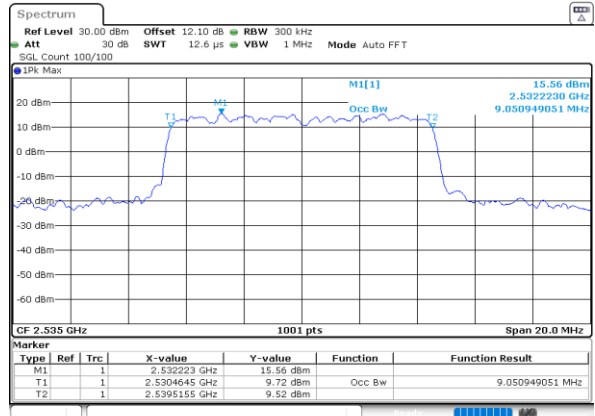
Date: 1.AUG.2023 09:06:55

Middle Channel / 5MHz / 64QAM



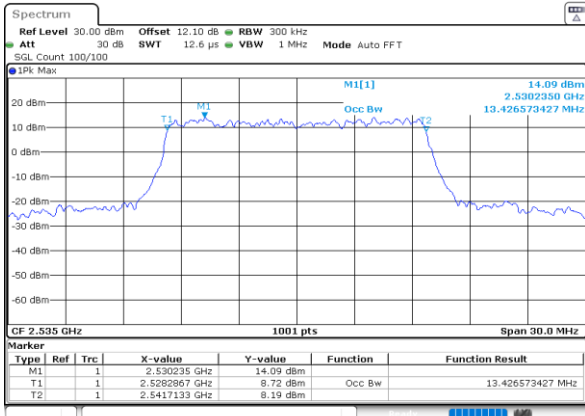
Date: 1.AUG.2023 08:13:33

Middle Channel / 10MHz / 64QAM



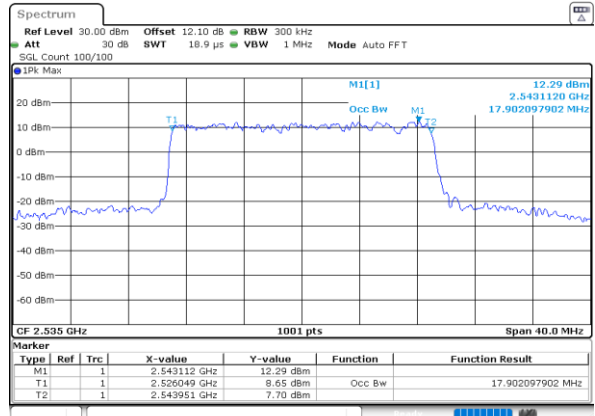
Date: 1.AUG.2023 08:50:09

Middle Channel / 15MHz / 64QAM



Date: 1.AUG.2023 09:00:45

Middle Channel / 20MHz / 64QAM

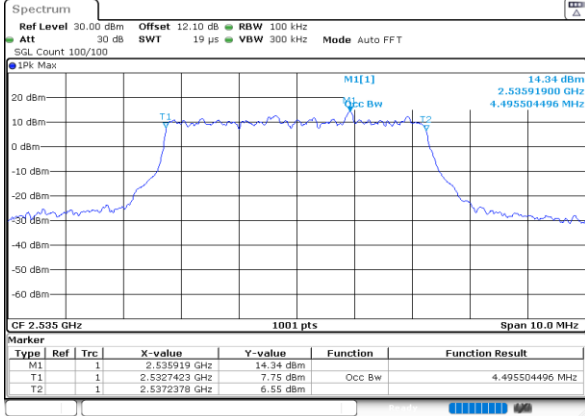


Date: 1.AUG.2023 09:11:20



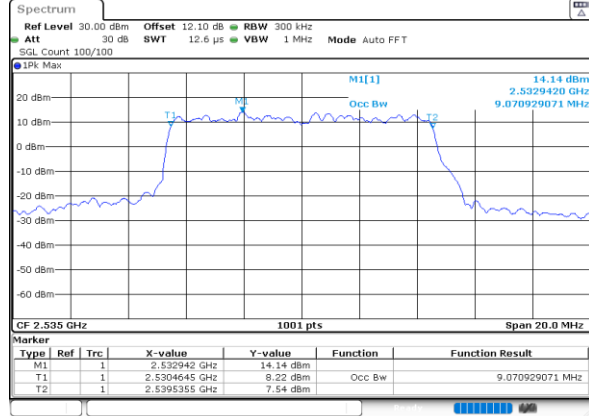
LTE Band 7

Middle Channel / 5MHz / 256QAM



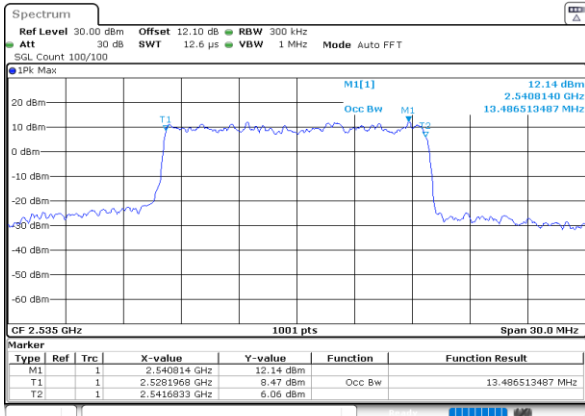
Date: 1.AUG.2023 09:16:18

Middle Channel / 10MHz / 256QAM



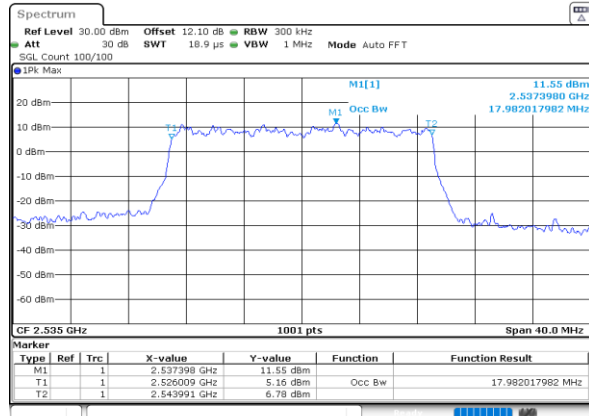
Date: 1.AUG.2023 09:20:25

Middle Channel / 15MHz / 256QAM



Date: 1.AUG.2023 09:23:12

Middle Channel / 20MHz / 256QAM



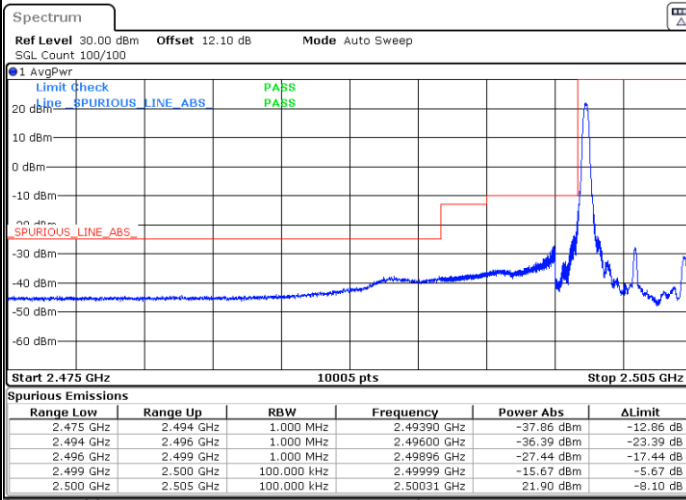
Date: 1.AUG.2023 09:25:59



Conducted Band Edge

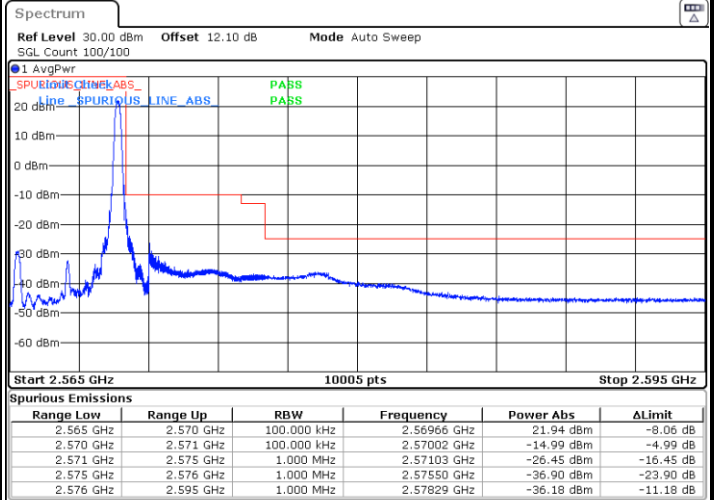
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



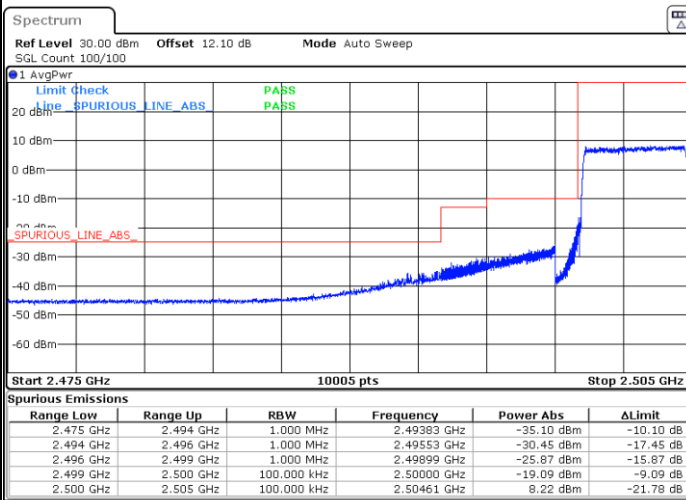
Date: 1.AUG.2023 08:23:47

Highest Band Edge / 1 RB



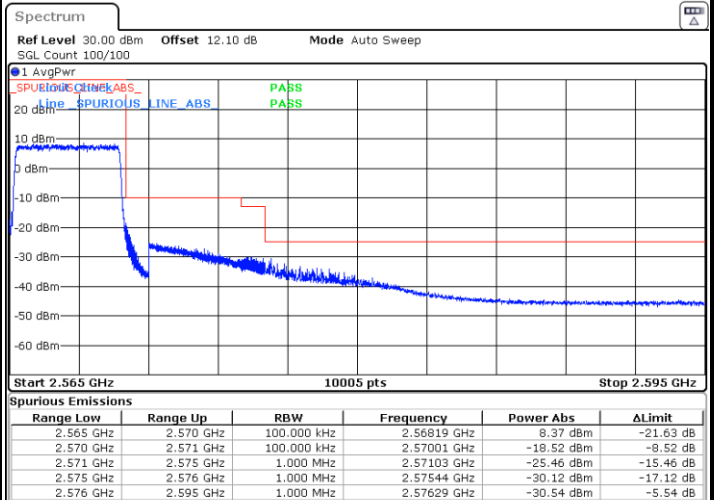
Date: 1.AUG.2023 08:31:56

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:25:47

Highest Band Edge / Full RB

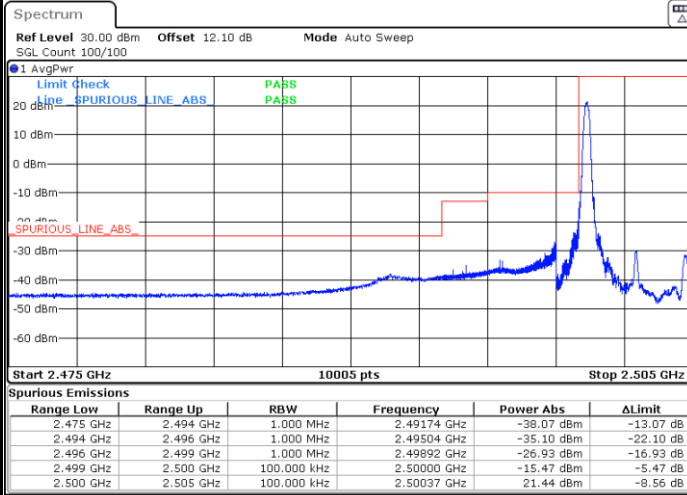


Date: 1.AUG.2023 08:33:56



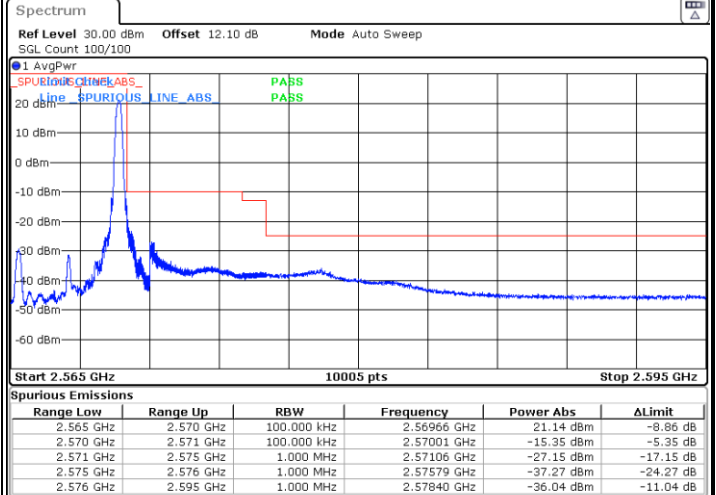
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



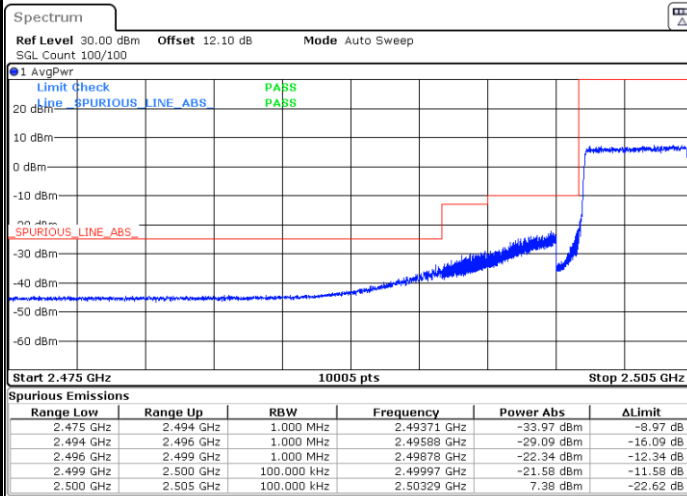
Date: 1.AUG.2023 08:24:47

Highest Band Edge / 1 RB



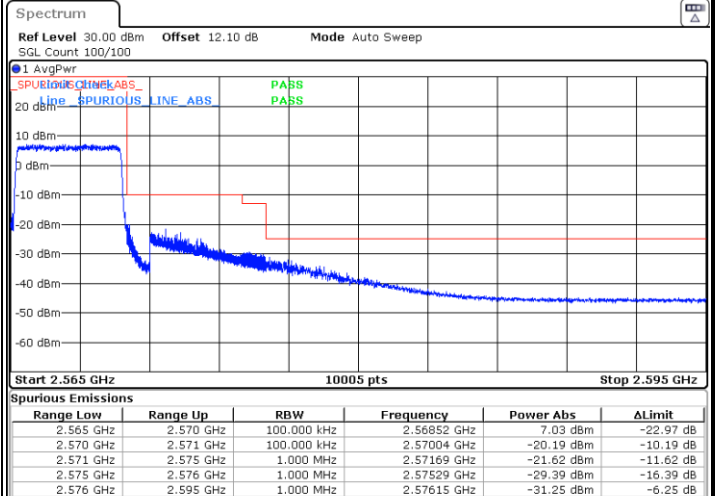
Date: 1.AUG.2023 08:32:56

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:26:47

Highest Band Edge / Full RB

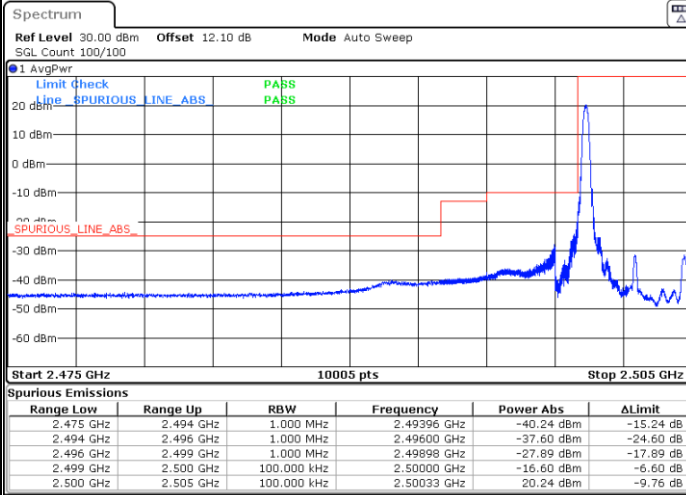


Date: 1.AUG.2023 08:34:55



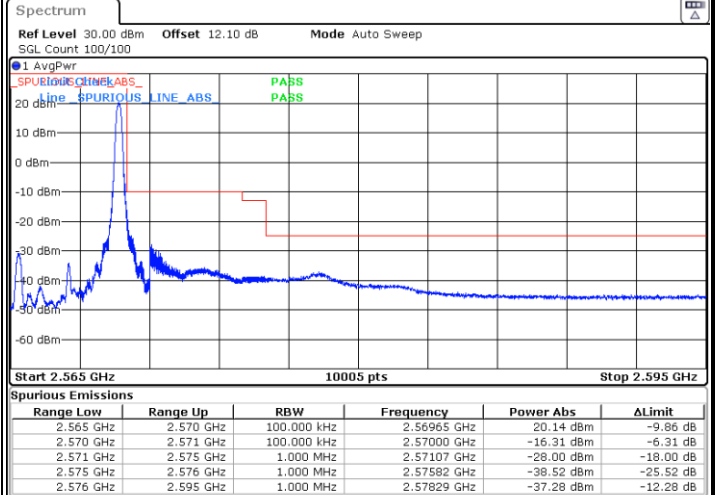
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



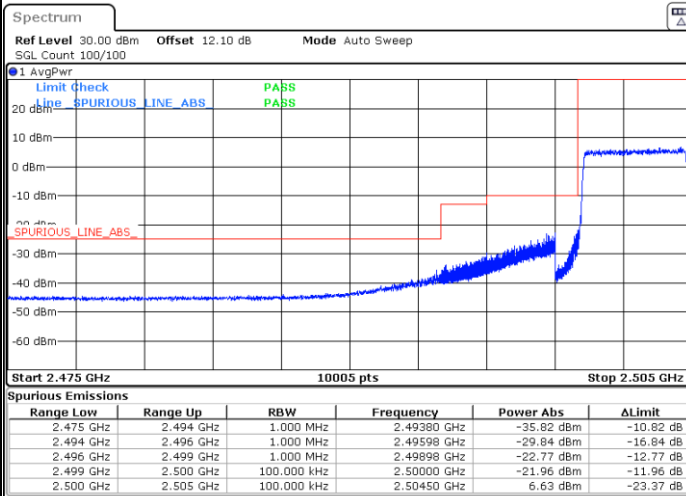
Date: 1.AUG.2023 08:37:03

Highest Band Edge / 1 RB



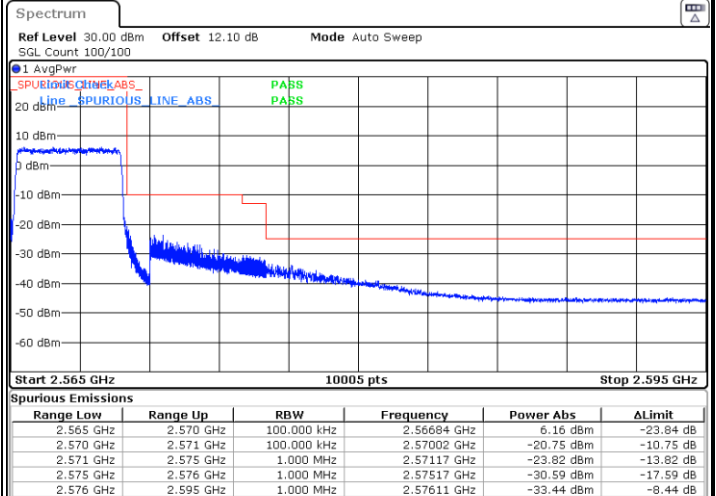
Date: 1.AUG.2023 08:39:46

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:38:03

Highest Band Edge / Full RB

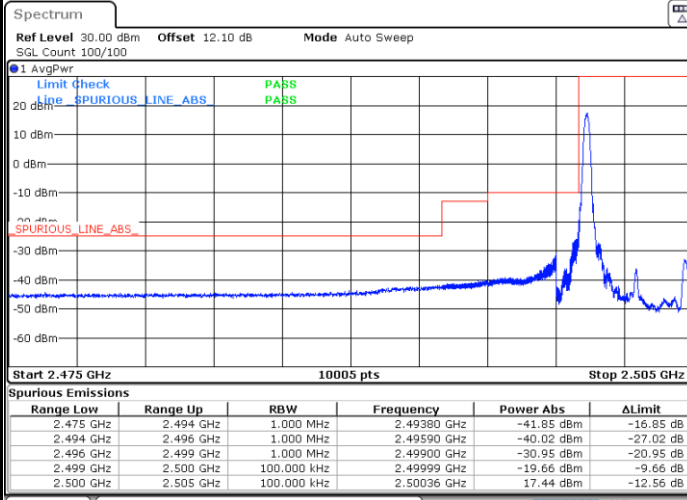


Date: 1.AUG.2023 08:40:45



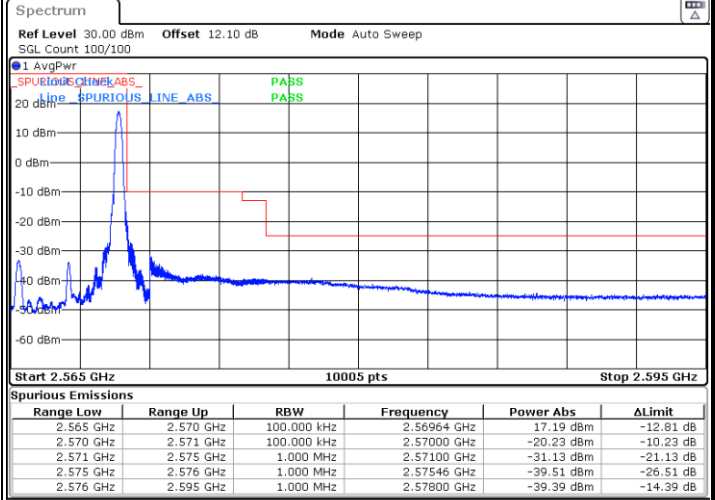
LTE Band 7 / 5MHz / 256QAM

Lowest Band Edge / 1RB



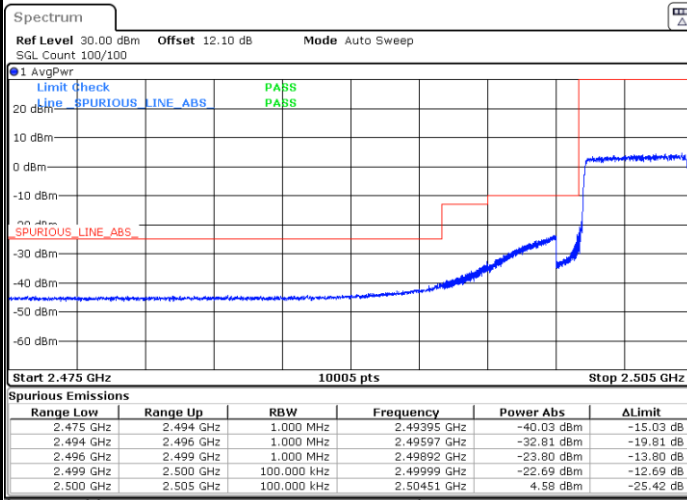
Date: 1.AUG.2023 09:15:08

Highest Band Edge / 1 RB



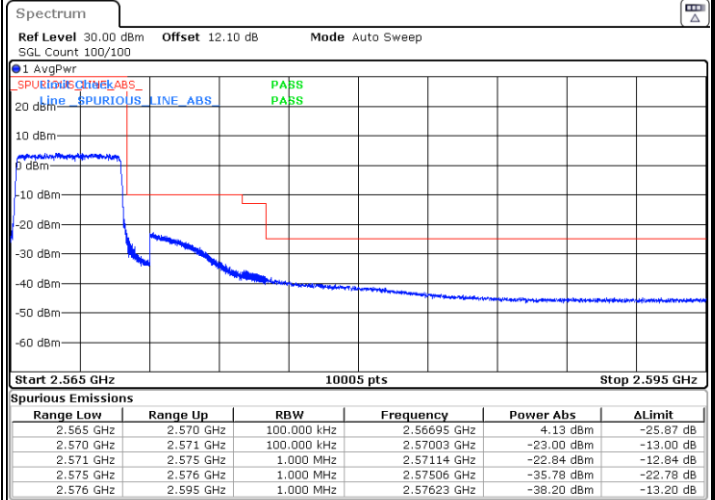
Date: 1.AUG.2023 09:17:50

Lowest Band Edge / Full RB



Date: 1.AUG.2023 09:16:08

Highest Band Edge / Full RB

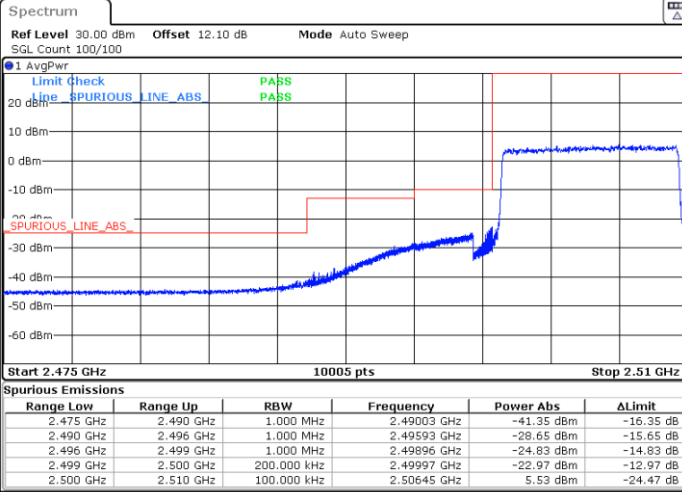


Date: 1.AUG.2023 09:18:50



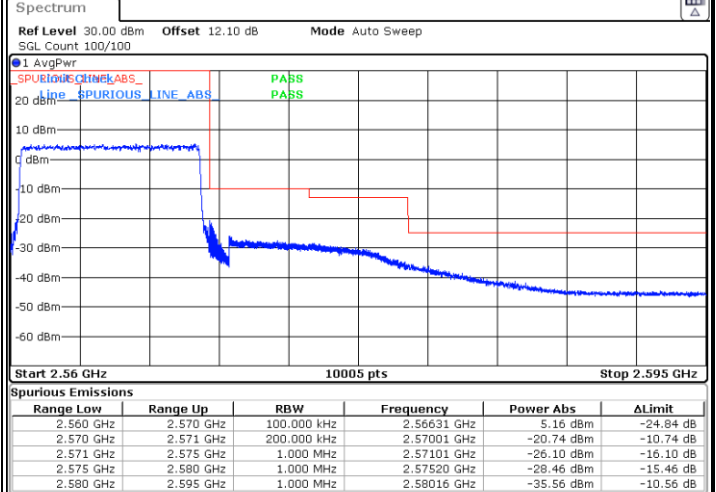
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:43:45

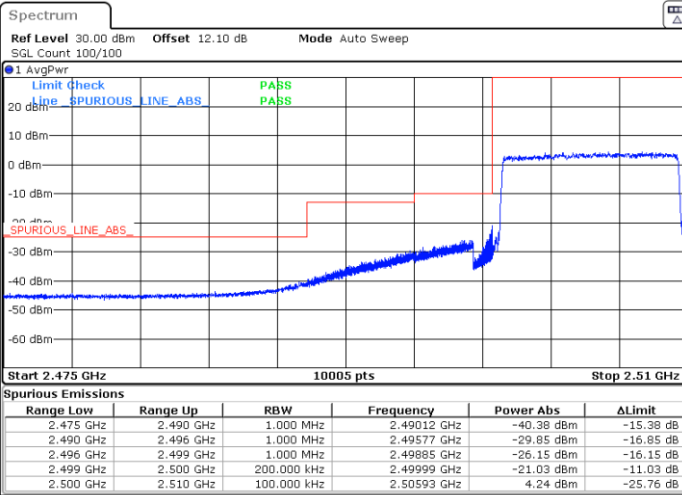
Highest Band Edge / Full RB



Date: 1.AUG.2023 08:47:39

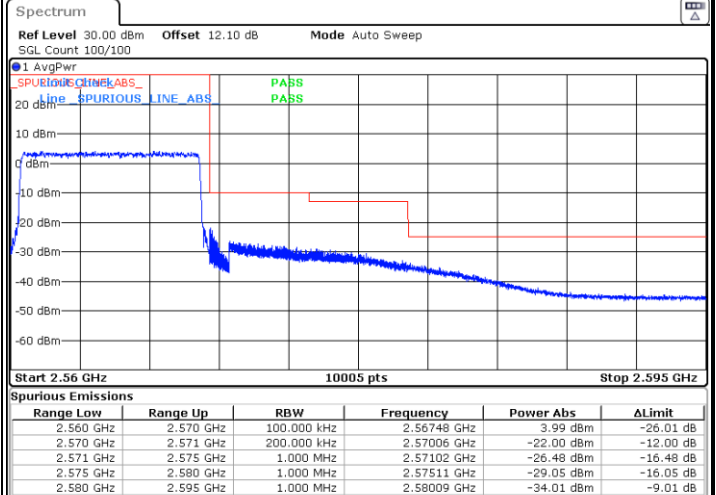
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:44:44

Highest Band Edge / Full RB

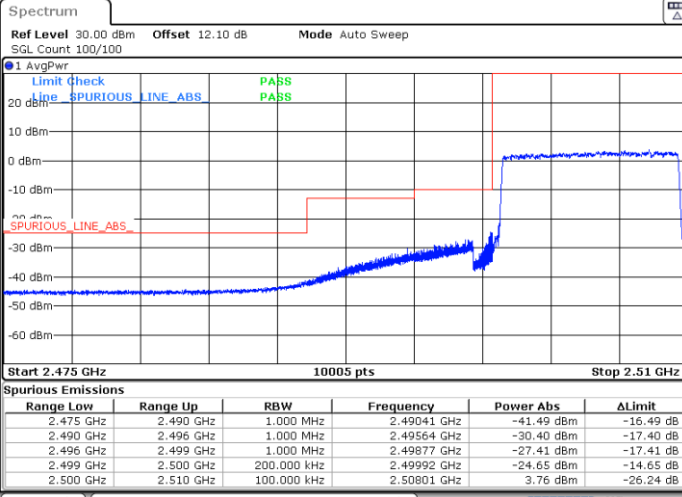


Date: 1.AUG.2023 08:48:39



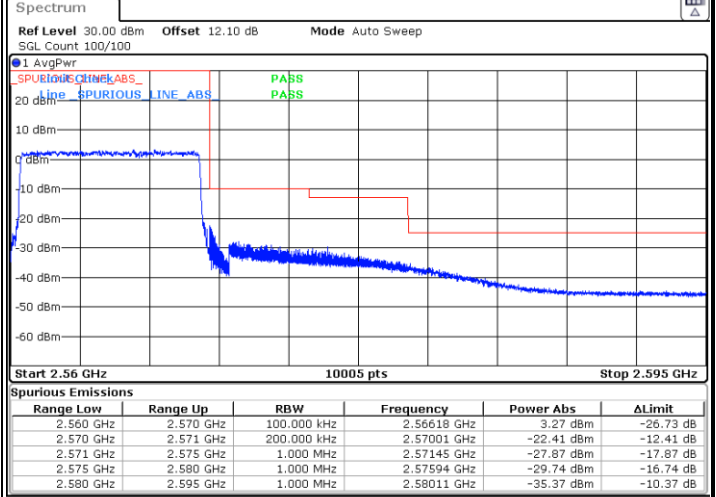
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:49:39

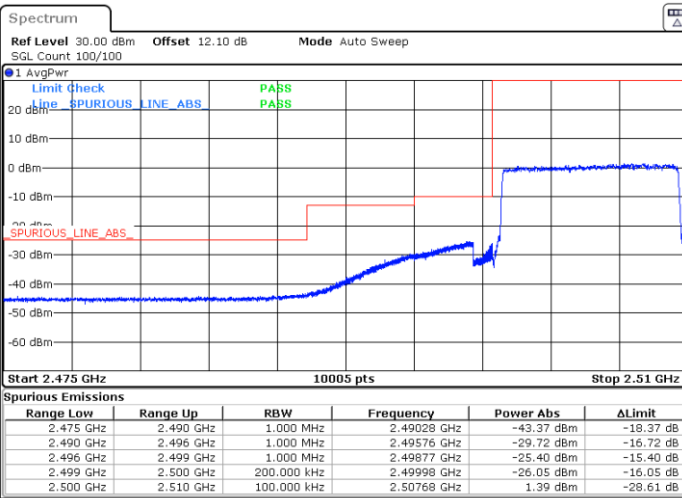
Highest Band Edge / Full RB



Date: 1.AUG.2023 08:51:21

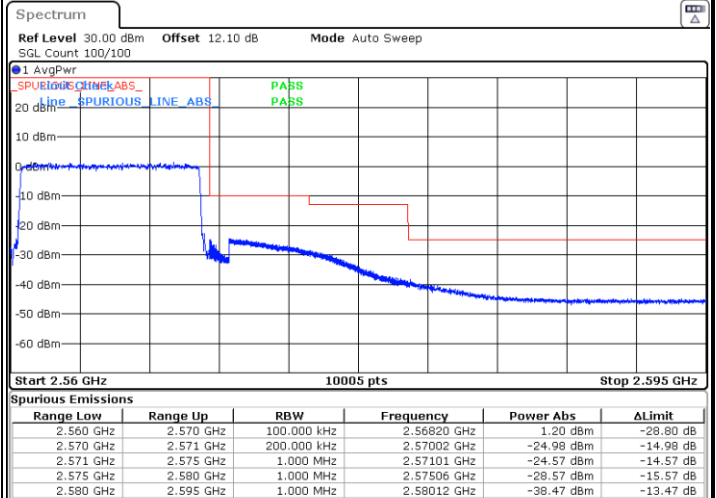
LTE Band 7 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 09:19:55

Highest Band Edge / Full RB

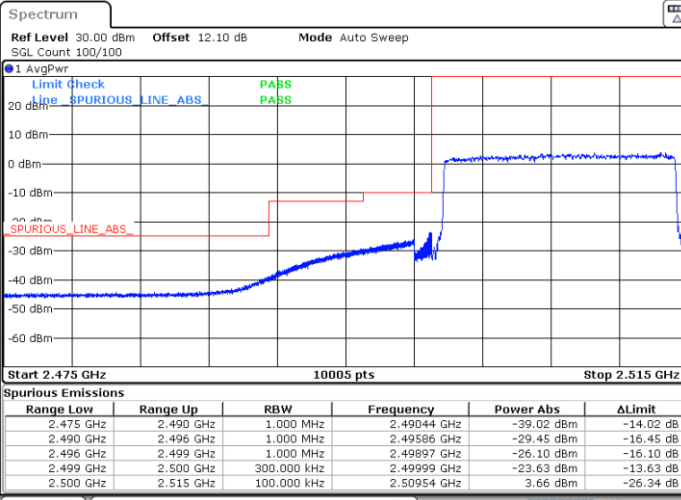


Date: 1.AUG.2023 09:21:37



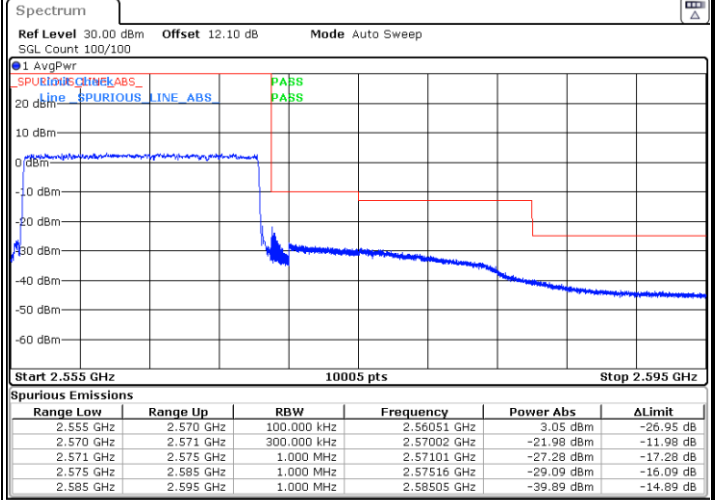
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:54:20

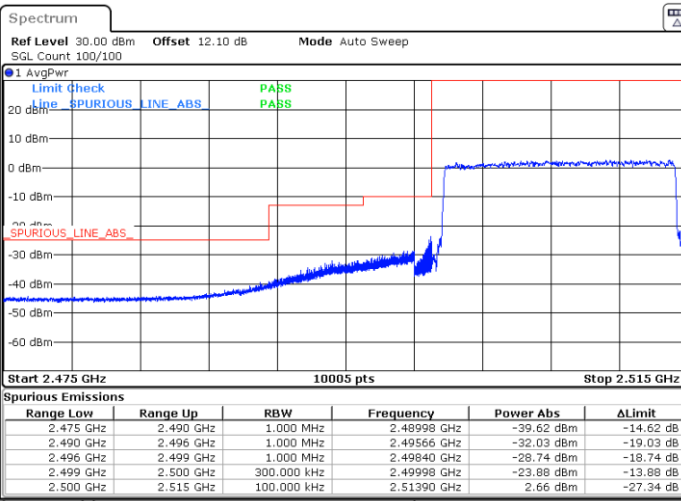
Highest Band Edge / Full RB



Date: 1.AUG.2023 08:59:15

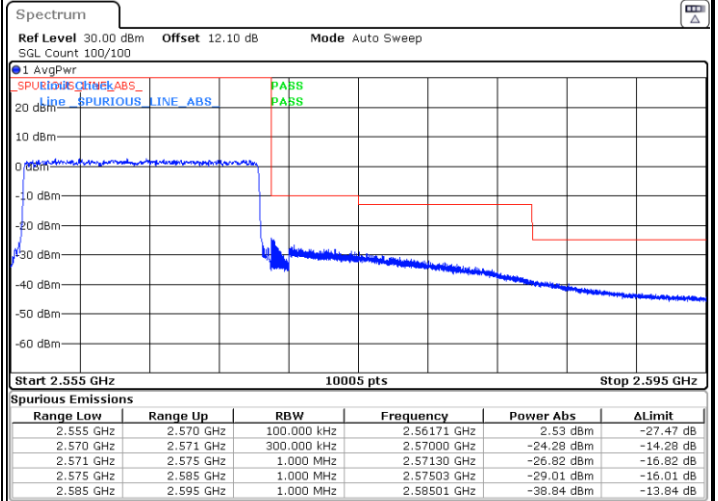
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 08:55:20

Highest Band Edge / Full RB

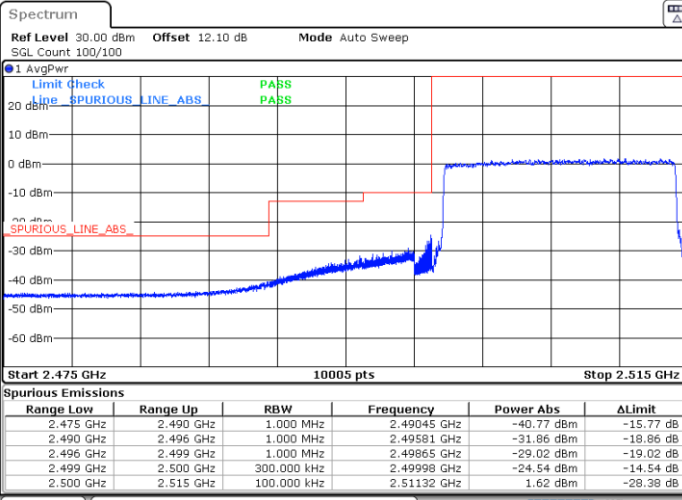


Date: 1.AUG.2023 08:59:15



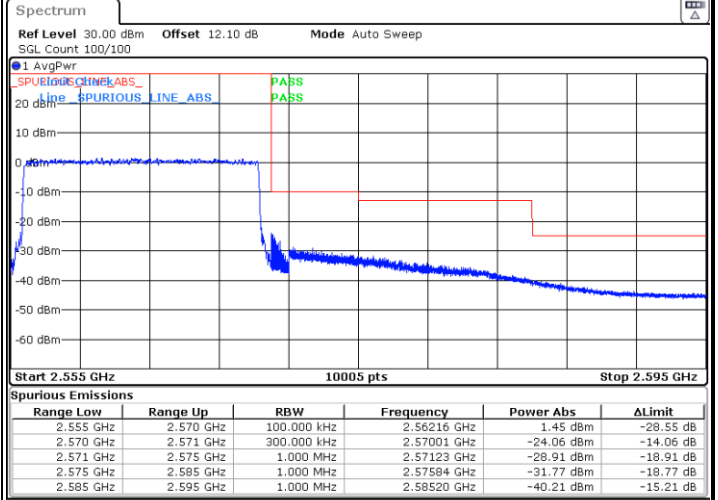
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 09:00:15

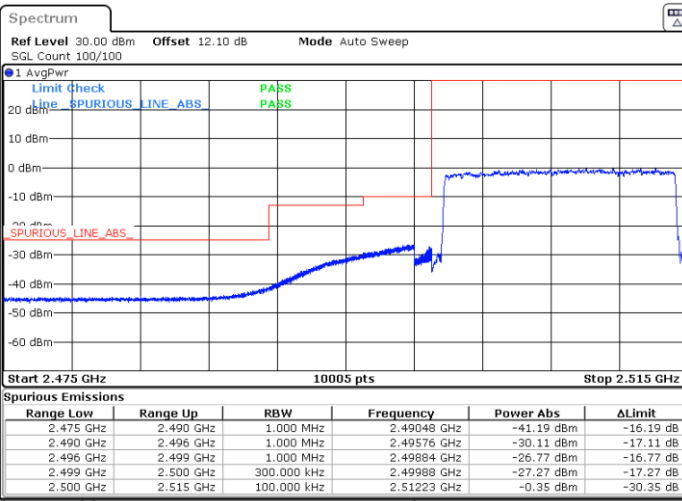
Highest Band Edge / Full RB



Date: 1.AUG.2023 09:01:57

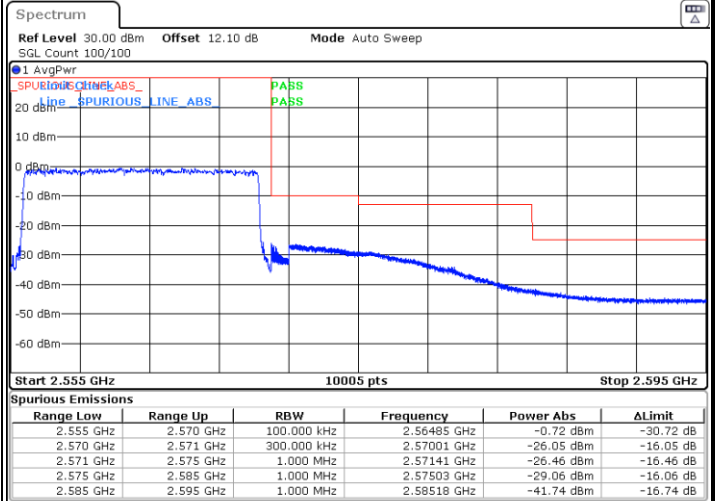
LTE Band 7 / 15MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 09:22:42

Highest Band Edge / Full RB

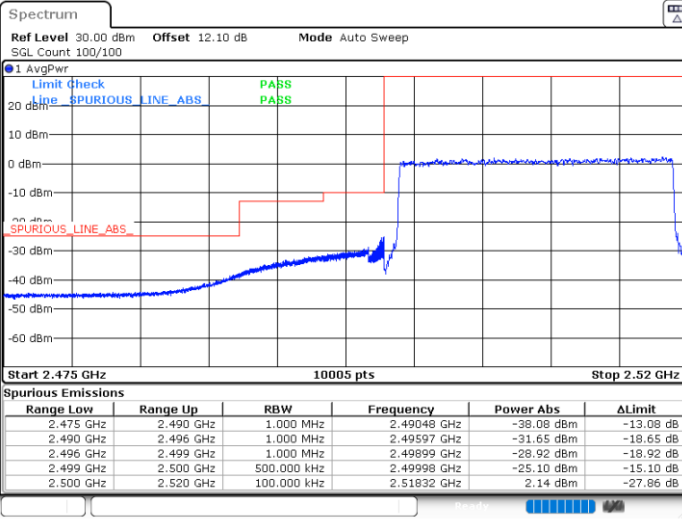


Date: 1.AUG.2023 09:24:24



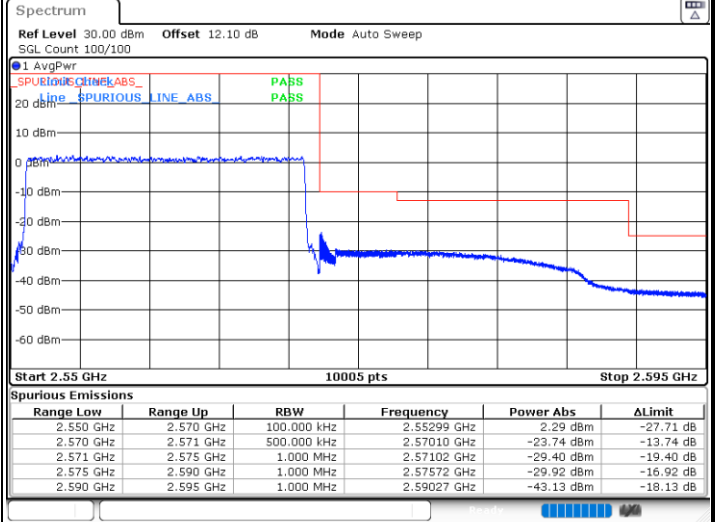
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 09:04:56

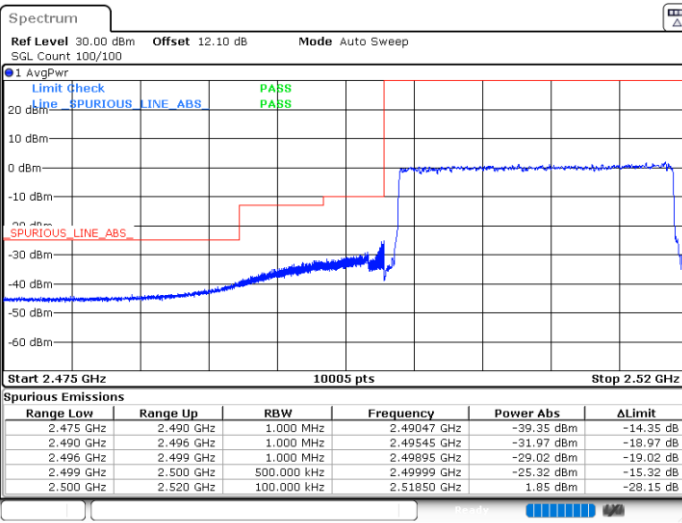
Highest Band Edge / Full RB



Date: 1.AUG.2023 09:09:50

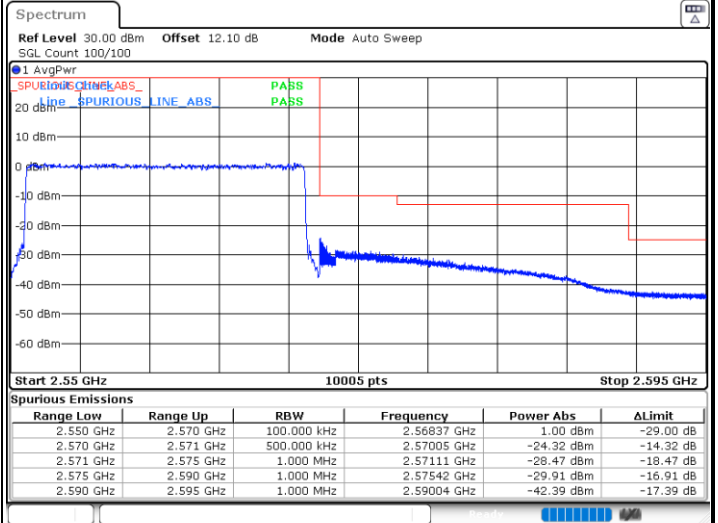
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 09:05:56

Highest Band Edge / Full RB

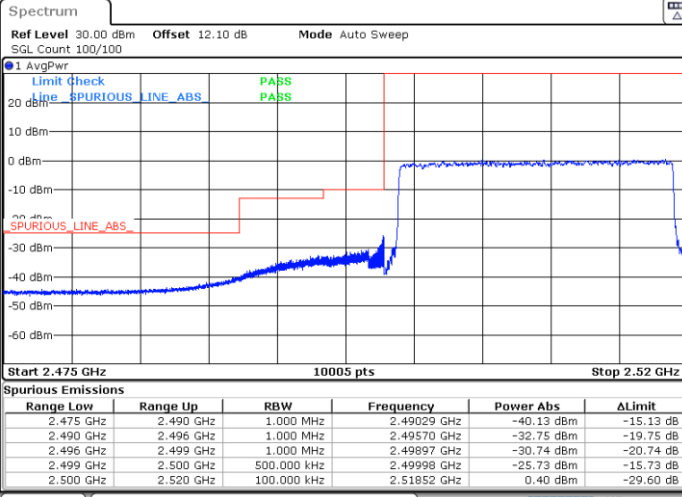


Date: 1.AUG.2023 09:08:51



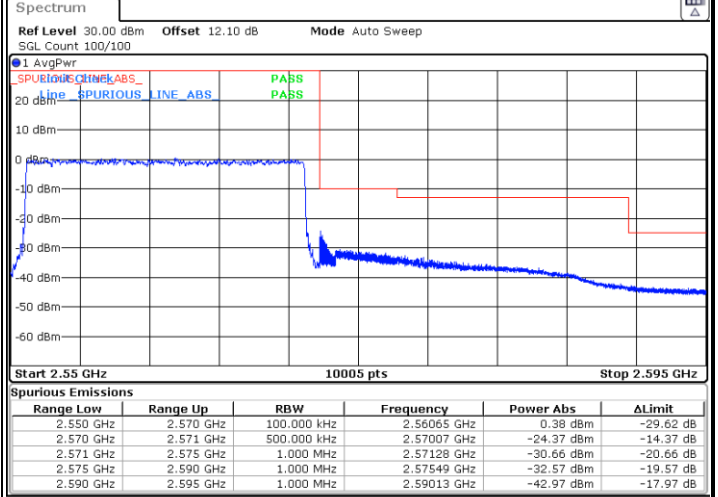
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 09:10:50

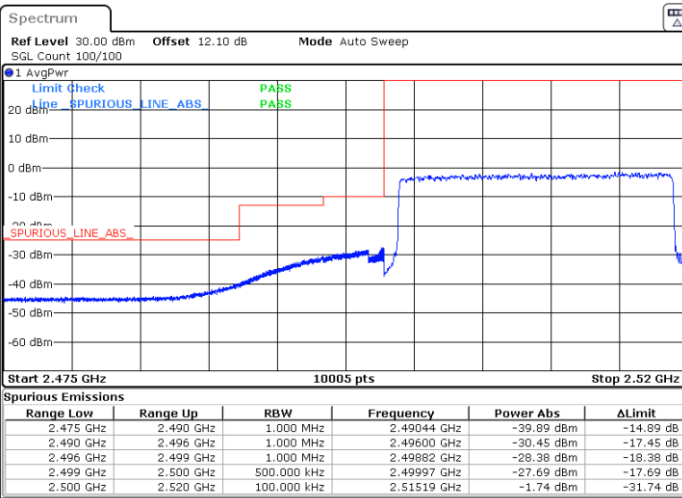
Highest Band Edge / Full RB



Date: 1.AUG.2023 09:12:32

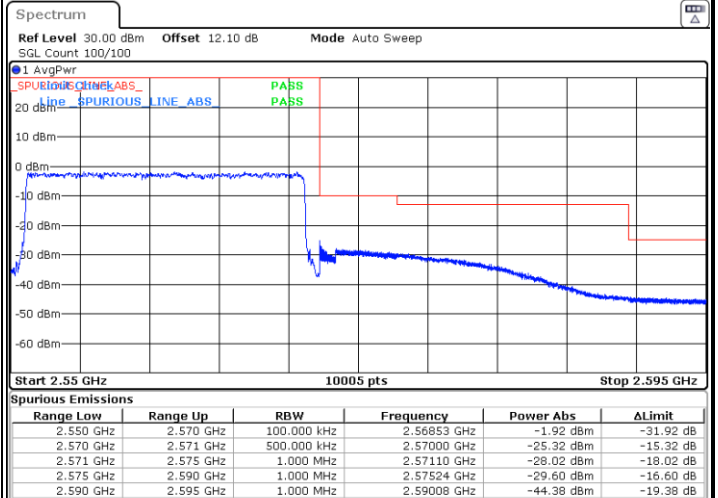
LTE Band 7 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 09:25:28

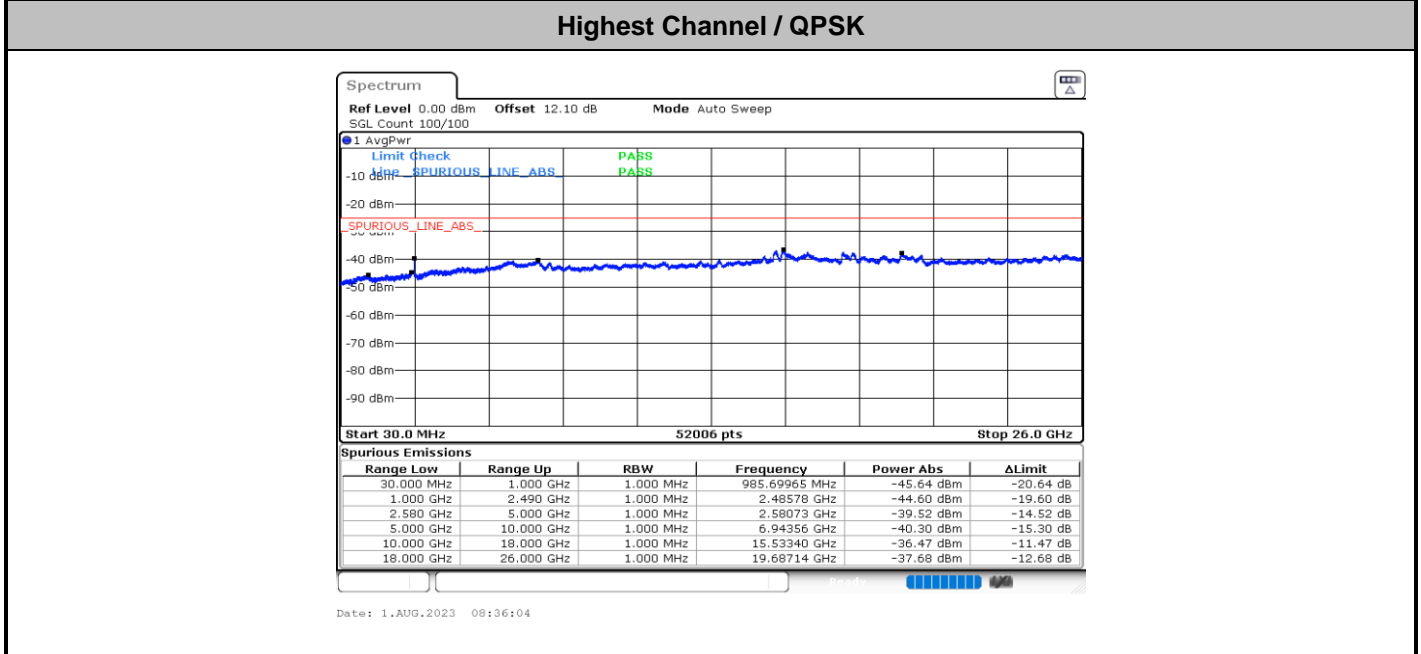
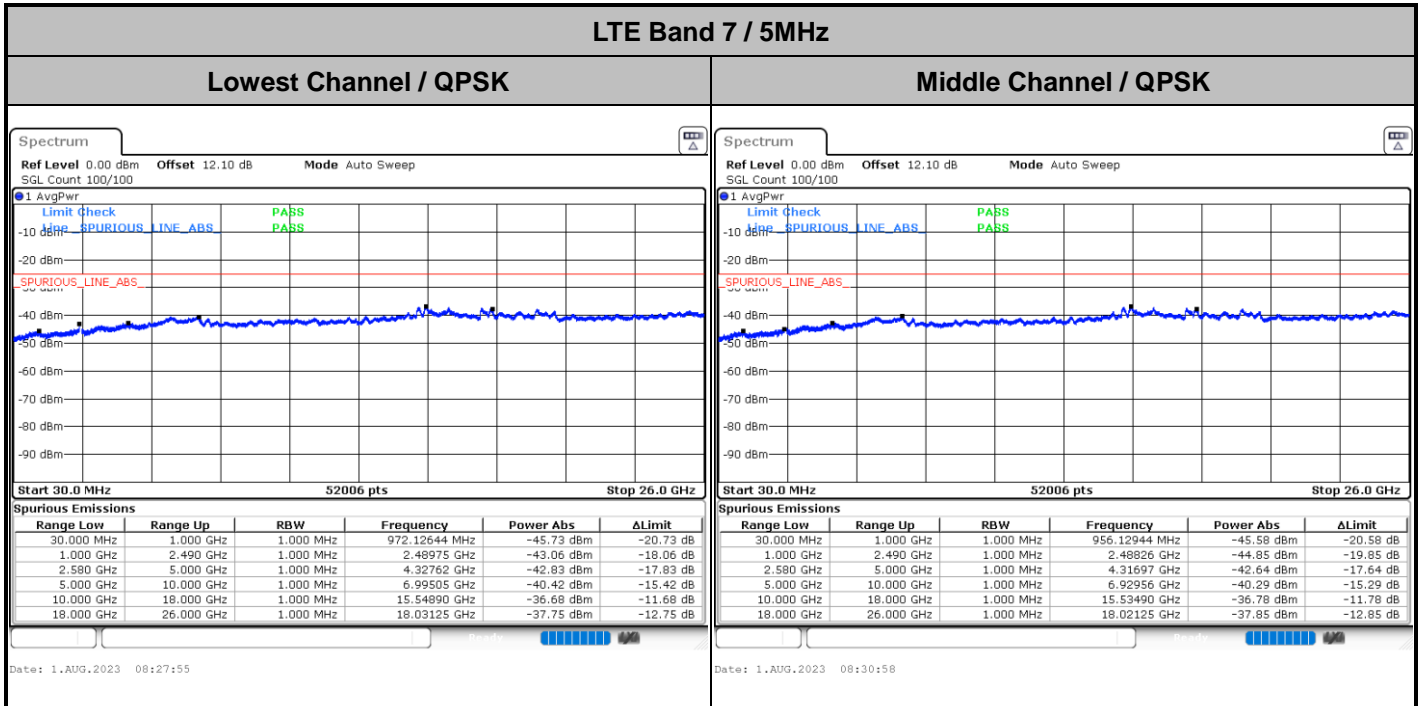
Highest Band Edge / Full RB



Date: 1.AUG.2023 09:27:11



Conducted Spurious Emission

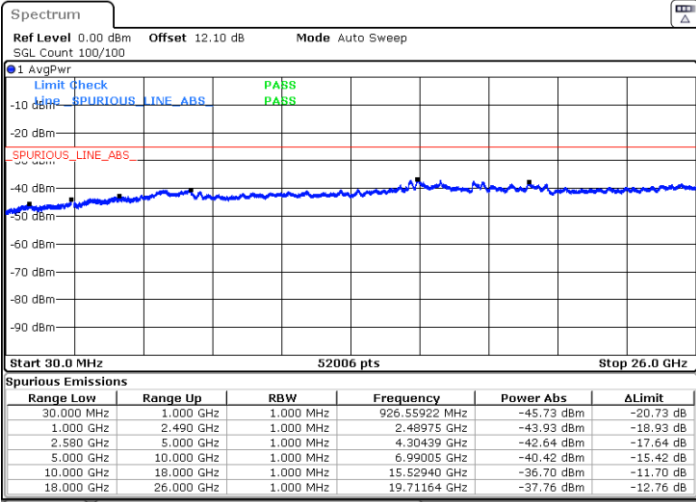




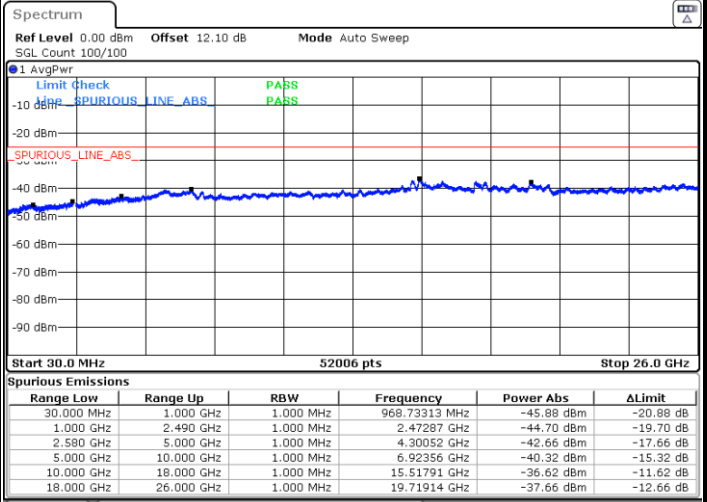
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

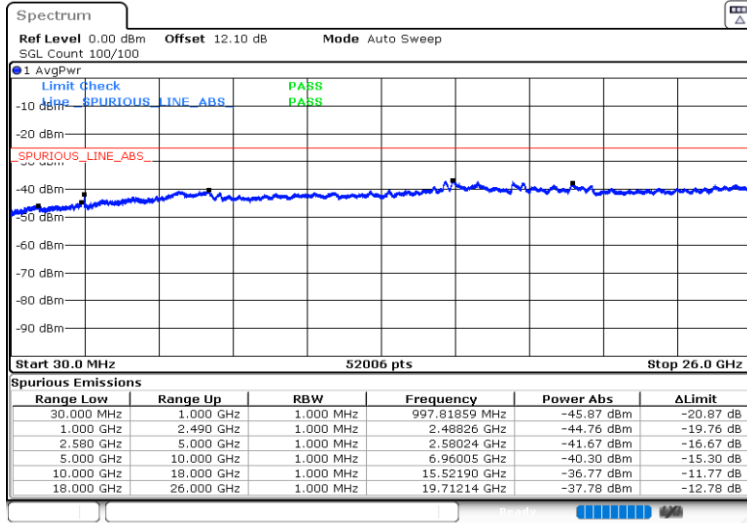


Date: 1.AUG.2023 09:28:54



Date: 1.AUG.2023 09:30:02

Highest Channel / QPSK



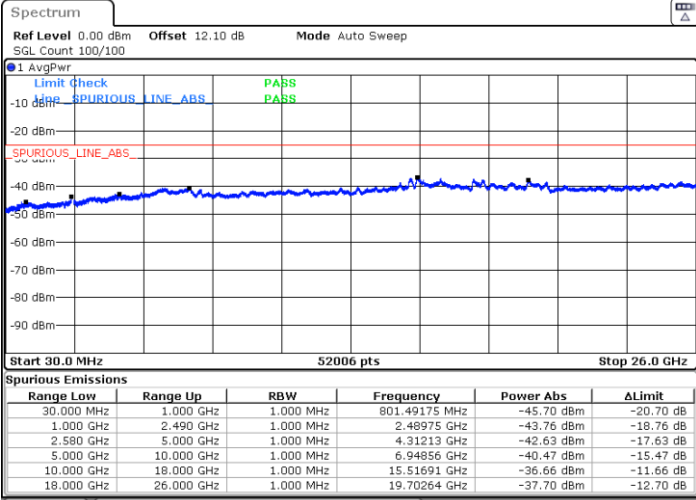
Date: 1.AUG.2023 09:31:09



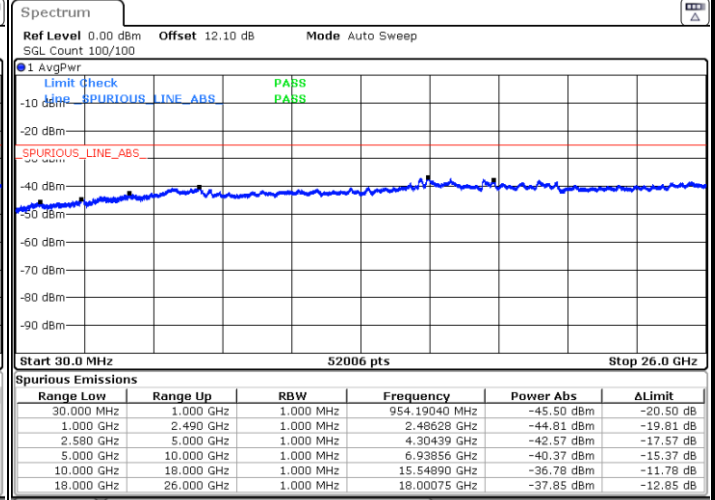
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

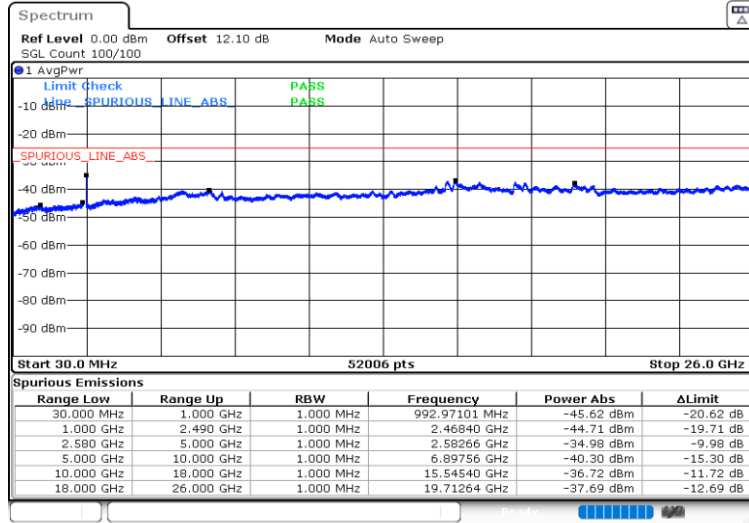


Date: 1.AUG.2023 09:32:22



Date: 1.AUG.2023 09:33:29

Highest Channel / QPSK



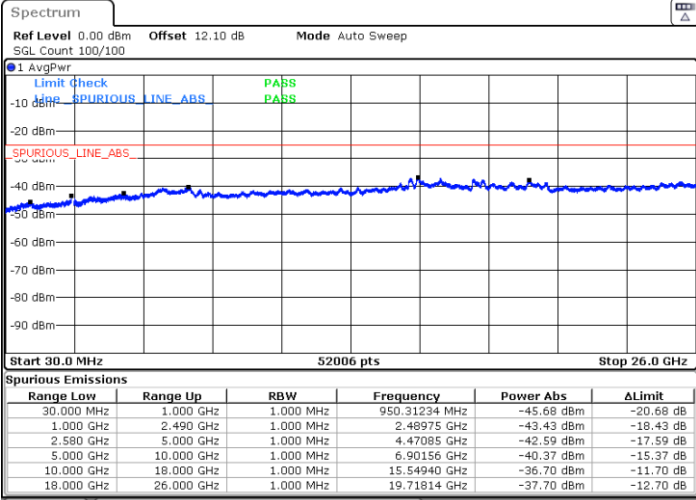
Date: 1.AUG.2023 09:34:38



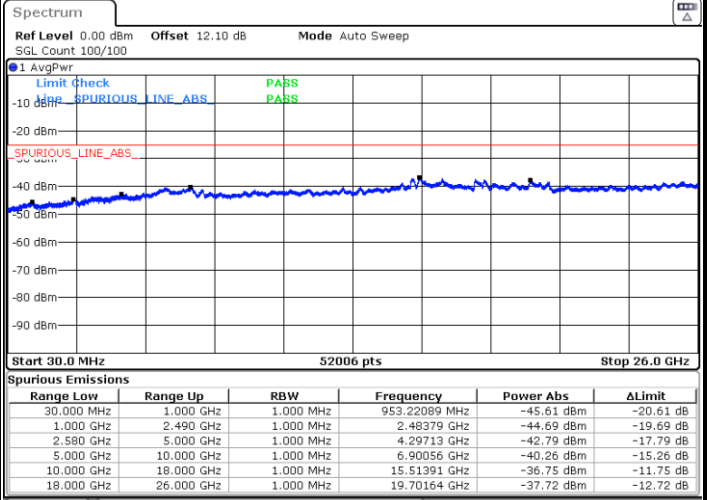
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

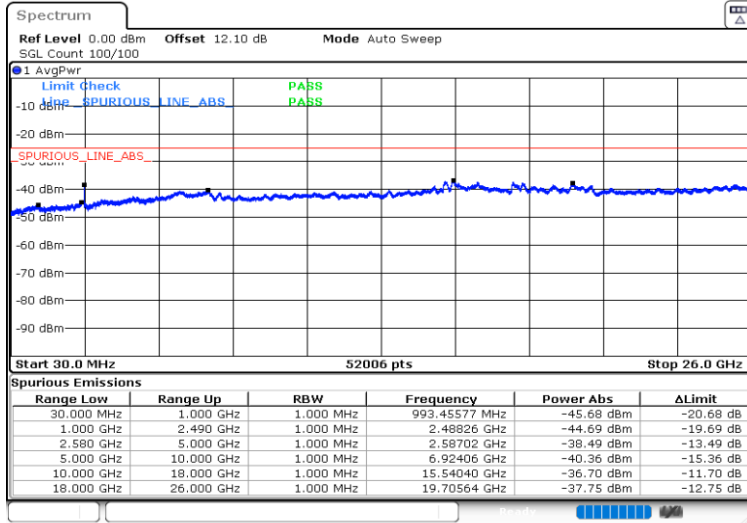


Date: 1.AUG.2023 09:35:50



Date: 1.AUG.2023 09:36:58

Highest Channel / QPSK



Date: 1.AUG.2023 09:38:05



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	0.0049	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0065	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0039	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.