

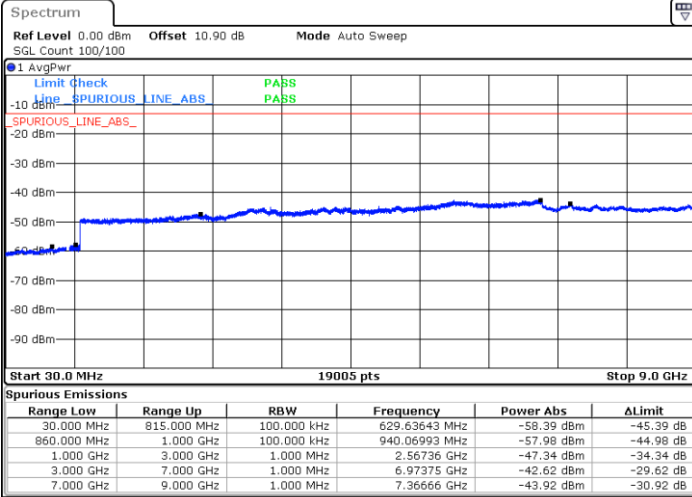


LTE Band 5B / 3MHz+5MHz

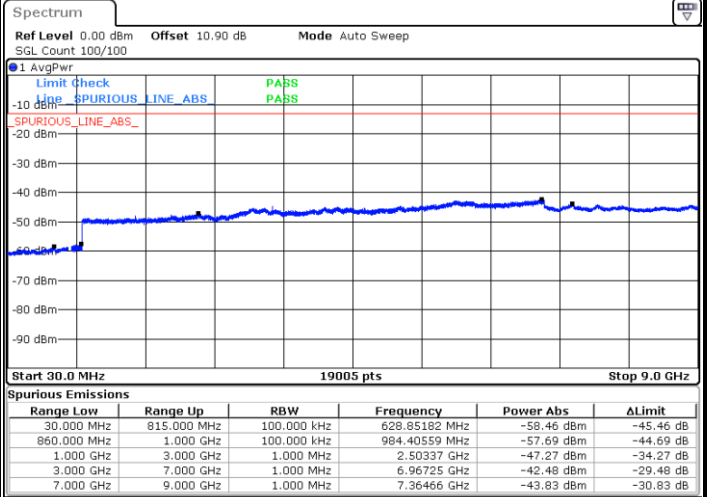
QPSK

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB14 and 1RB0



Date: 18.JAN.2022 17:42:12



Date: 18.JAN.2022 17:41:10

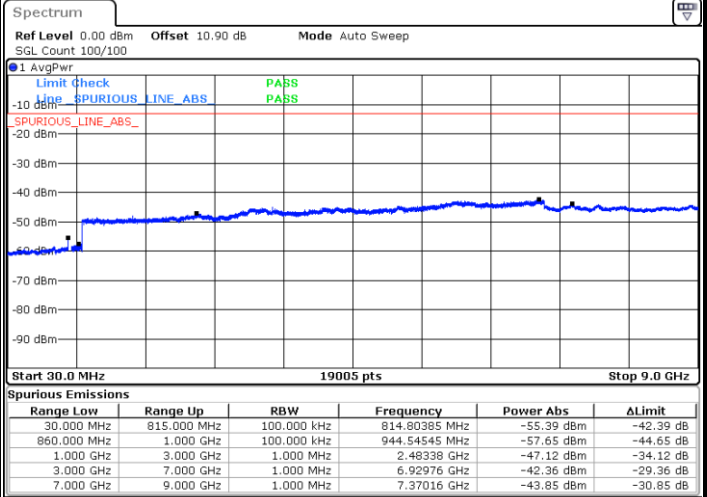
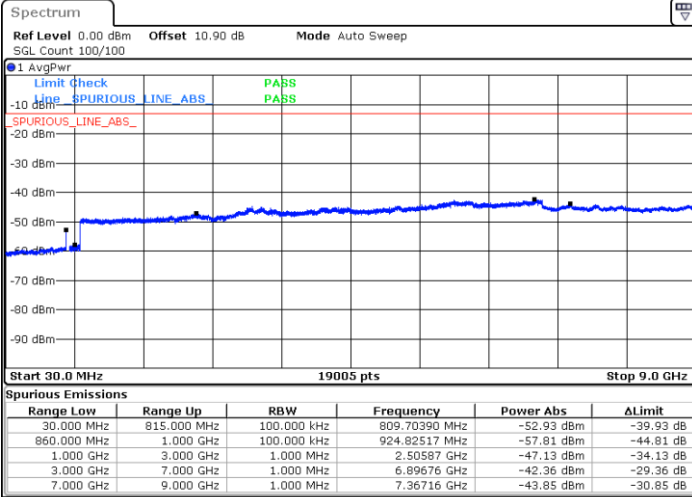


LTE Band 5B / 5MHz+3MHz

QPSK

Lowest Channel / 1RB0 and 1RB14

Lowest Channel / 1RB24 and 1RB0

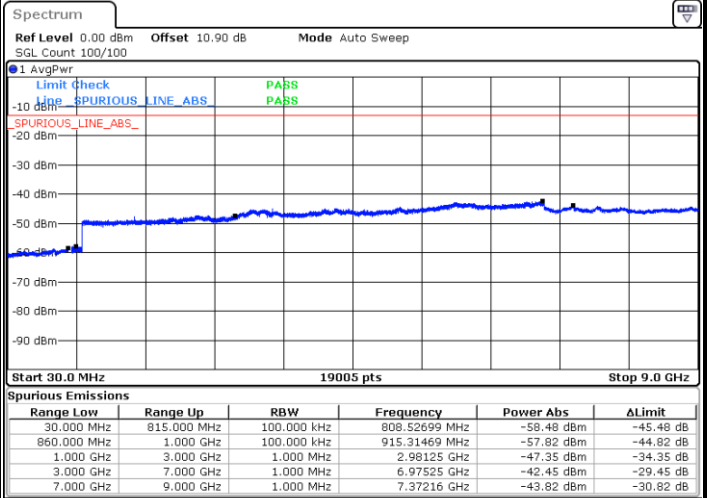
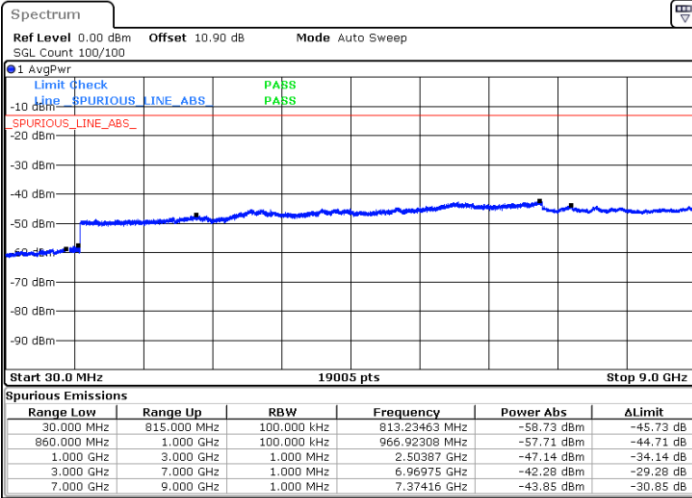


Date: 18.JAN.2022 18:29:05

Date: 18.JAN.2022 18:28:03

Middle Channel / 1RB0 and 1RB14

Middle Channel / 1RB24 and 1RB0



Date: 18.JAN.2022 18:32:58

Date: 18.JAN.2022 18:34:55

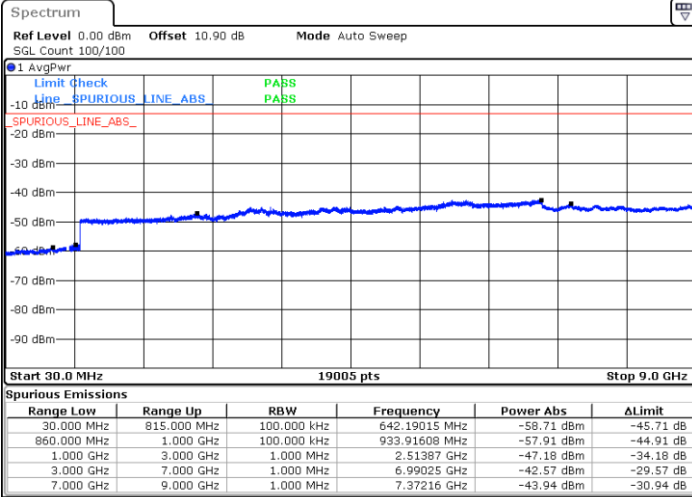


LTE Band 5B / 5MHz+3MHz

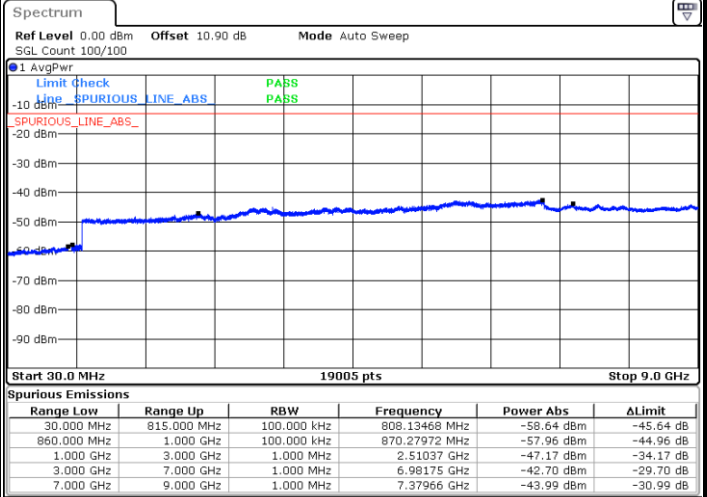
QPSK

Highest Channel / 1RB0 and 1RB14

Highest Channel / 1RB24 and 1RB0



Date: 18.JAN.2022 18:14:47



Date: 18.JAN.2022 18:13:46

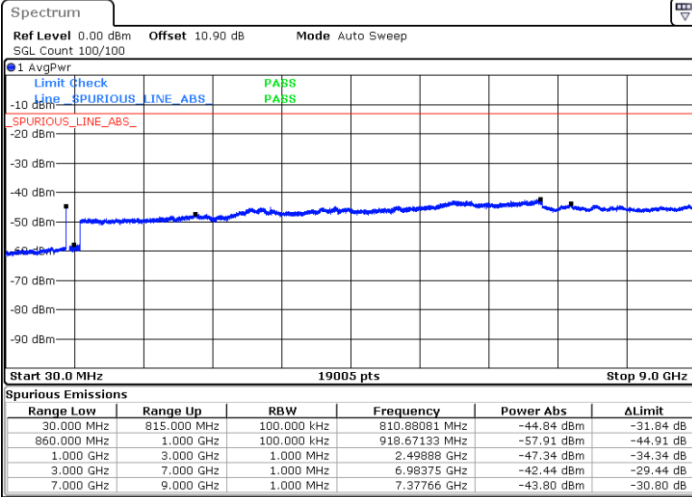


LTE Band 5B / 5MHz+10MHz

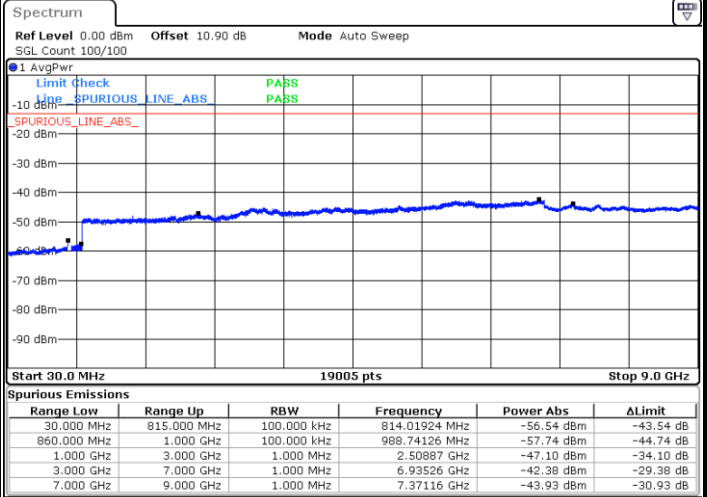
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB24 and 1RB0



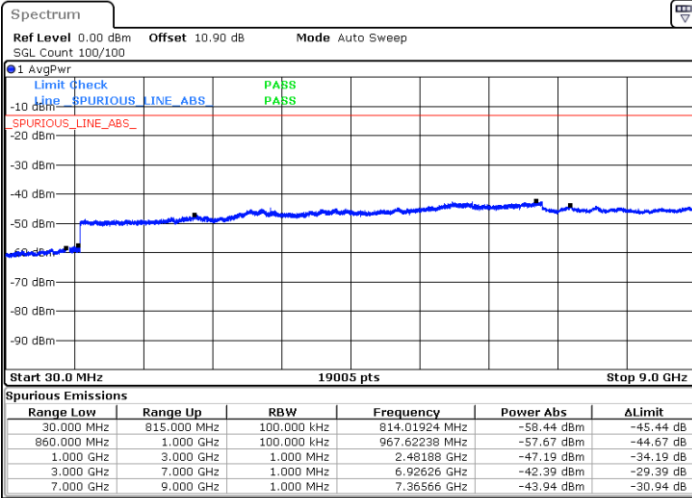
Date: 18.JAN.2022 18:59:03



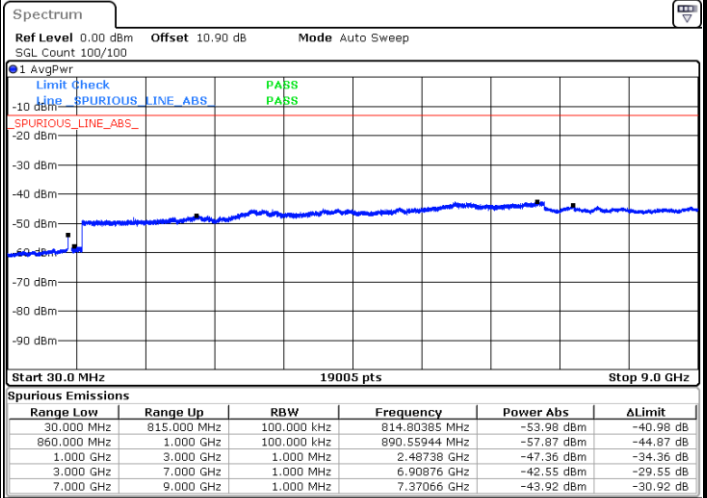
Date: 18.JAN.2022 18:58:01

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB24 and 1RB0



Date: 18.JAN.2022 19:02:55



Date: 18.JAN.2022 19:03:57

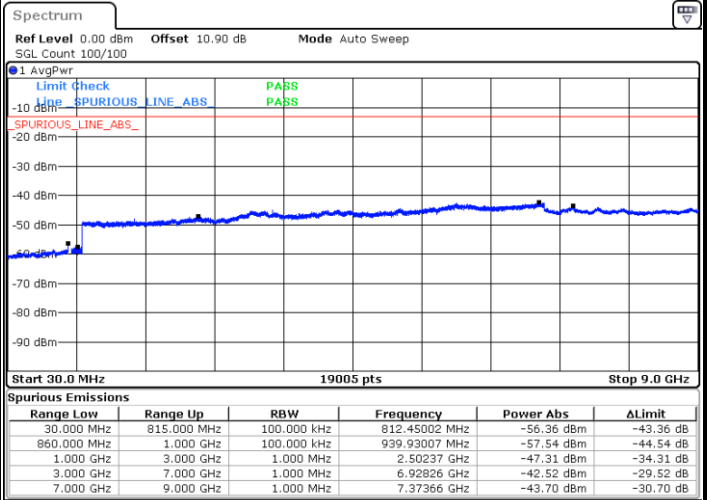
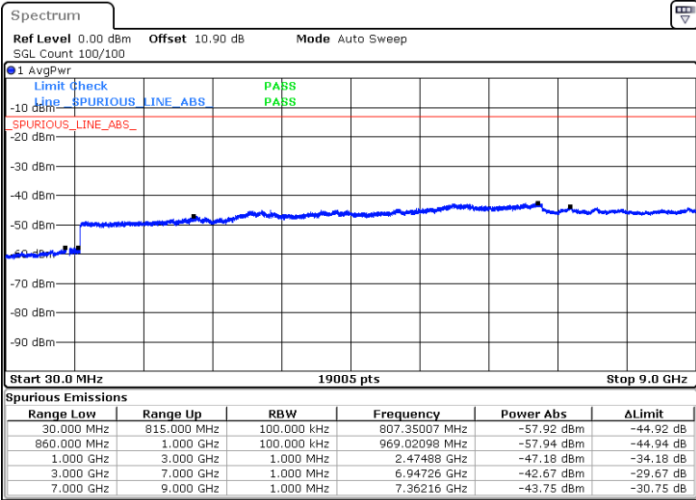


LTE Band 5B / 5MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB24 and 1RB0



Date: 18.JAN.2022 18:45:40

Date: 18.JAN.2022 18:44:38

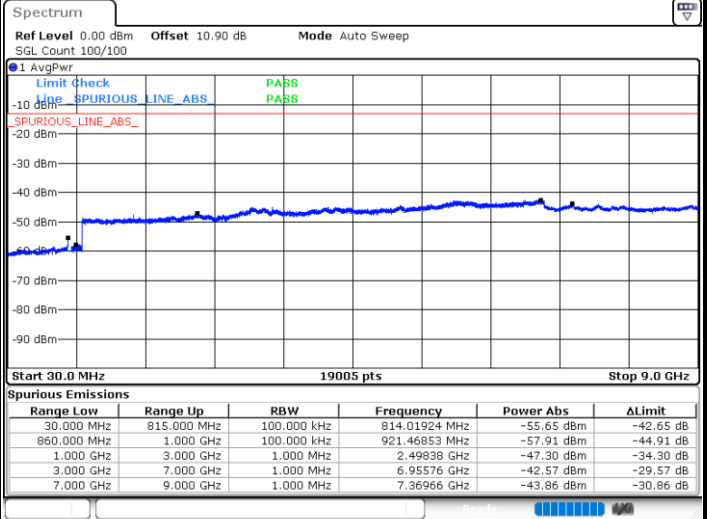
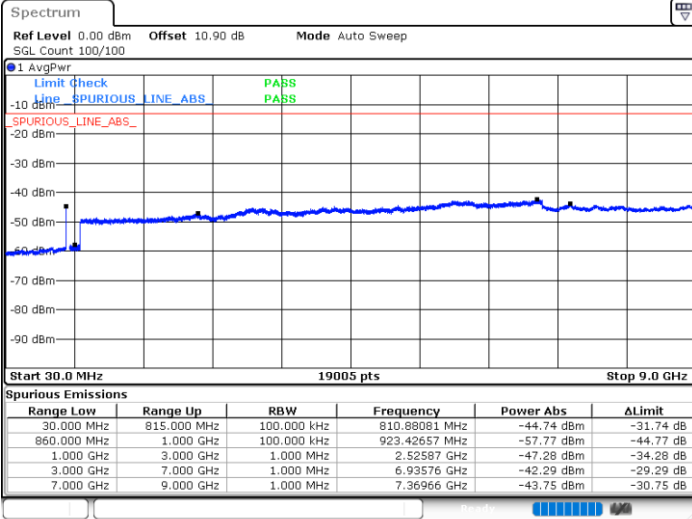


LTE Band 5B / 10MHz+5MHz

QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB49 and 1RB0

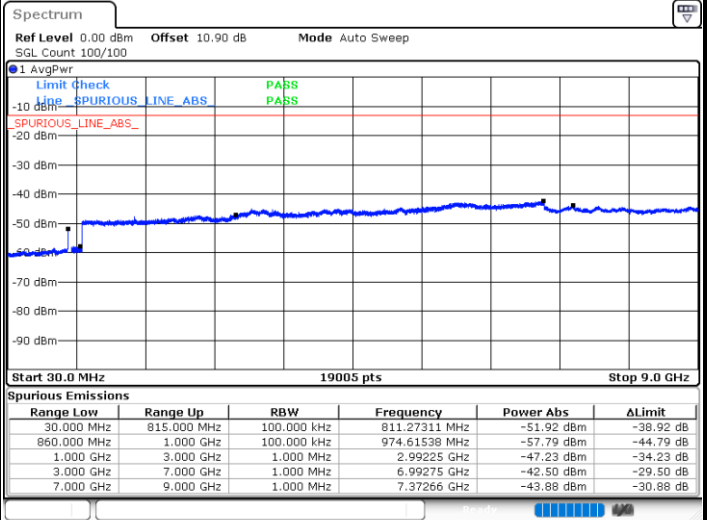
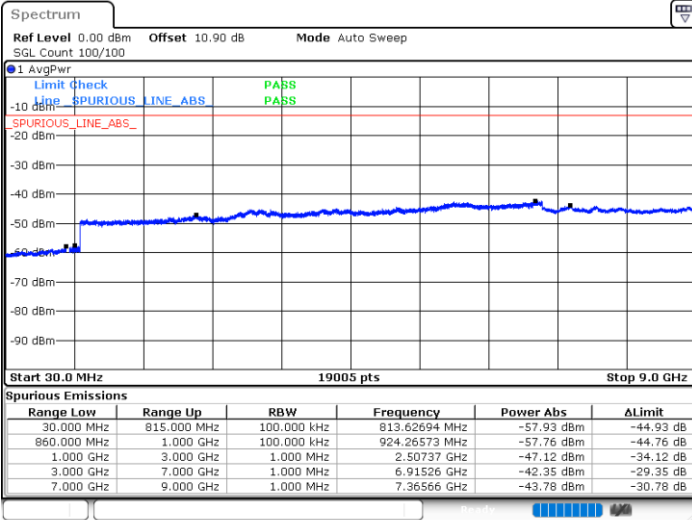


Date: 18.JAN.2022 19:30:01

Date: 18.JAN.2022 19:28:59

Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB49 and 1RB0



Date: 18.JAN.2022 19:33:54

Date: 18.JAN.2022 19:34:56

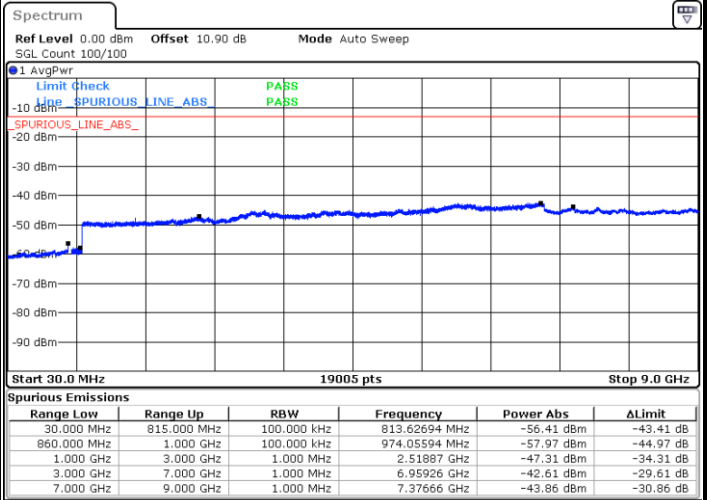
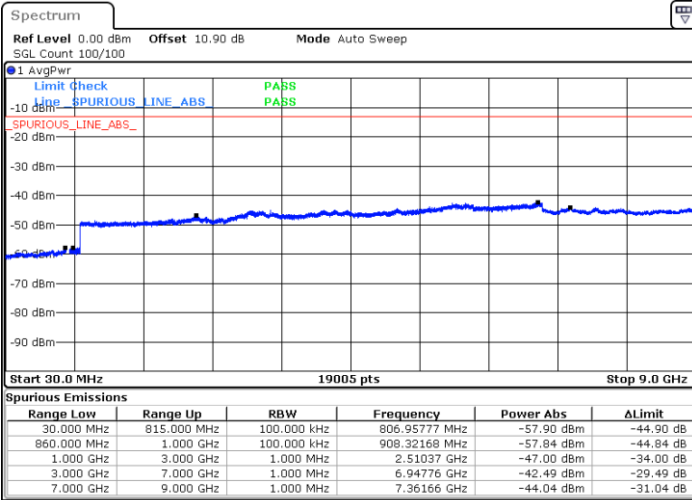


LTE Band 5B / 10MHz+5MHz

QPSK

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB49 and 1RB0



Date: 18.JAN.2022 19:16:26

Date: 18.JAN.2022 19:15:24

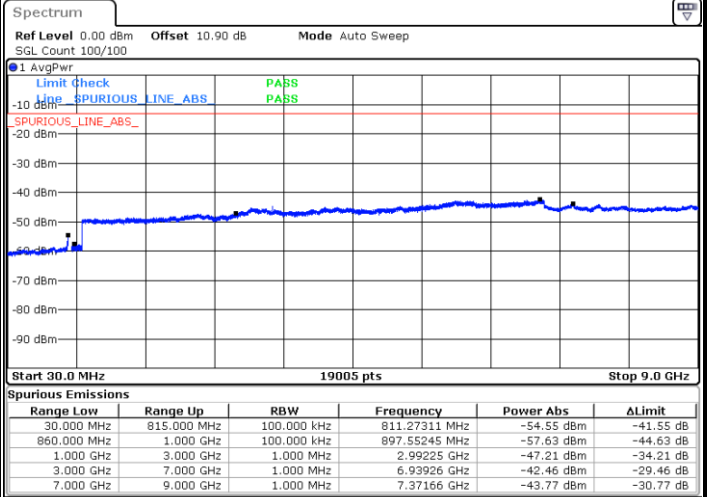
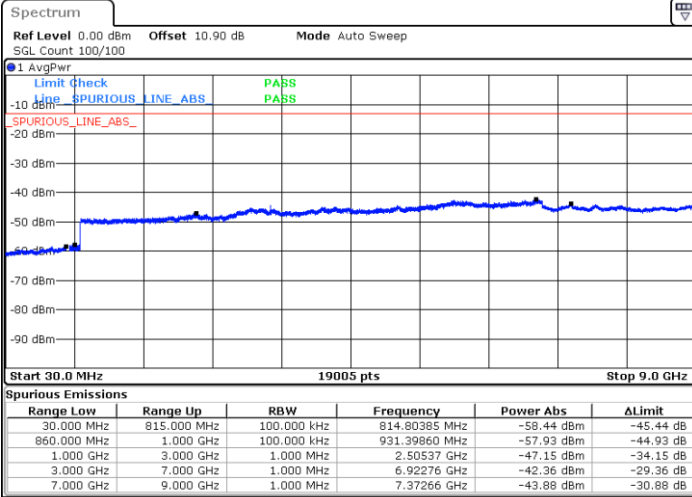


LTE Band 5B / 10MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0

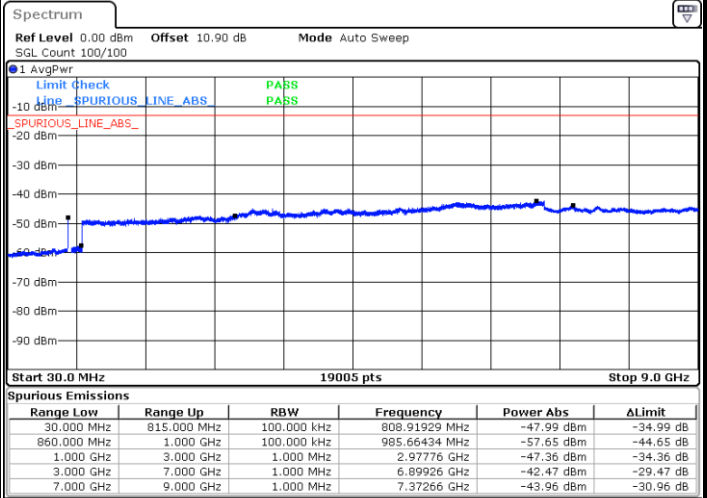
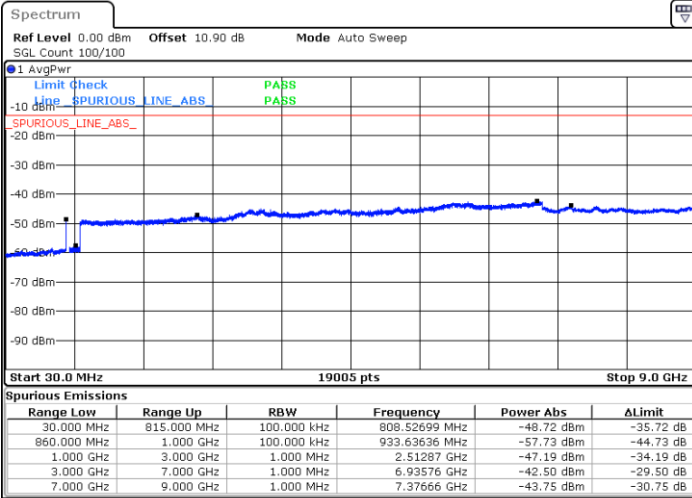


Date: 18.JAN.2022 19:56:40

Date: 18.JAN.2022 19:55:37

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



Date: 18.JAN.2022 20:00:31

Date: 18.JAN.2022 20:01:33



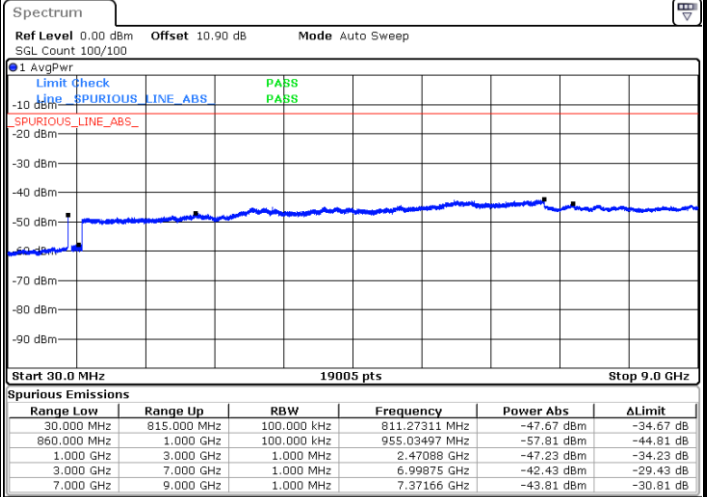
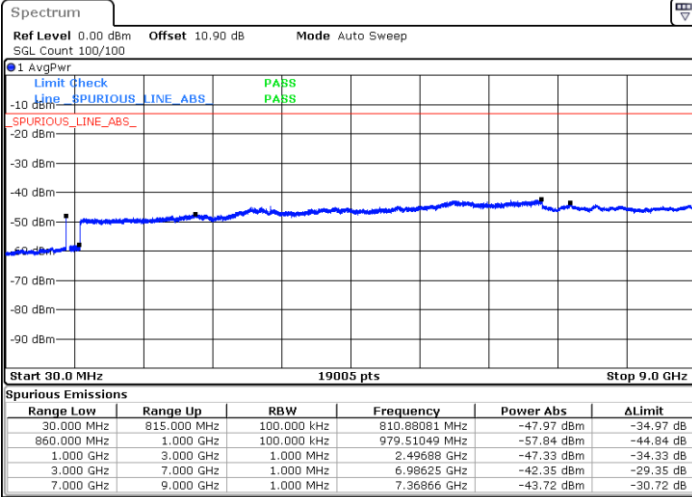


LTE Band 5B / 10MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Date: 18.JAN.2022 19:45:41

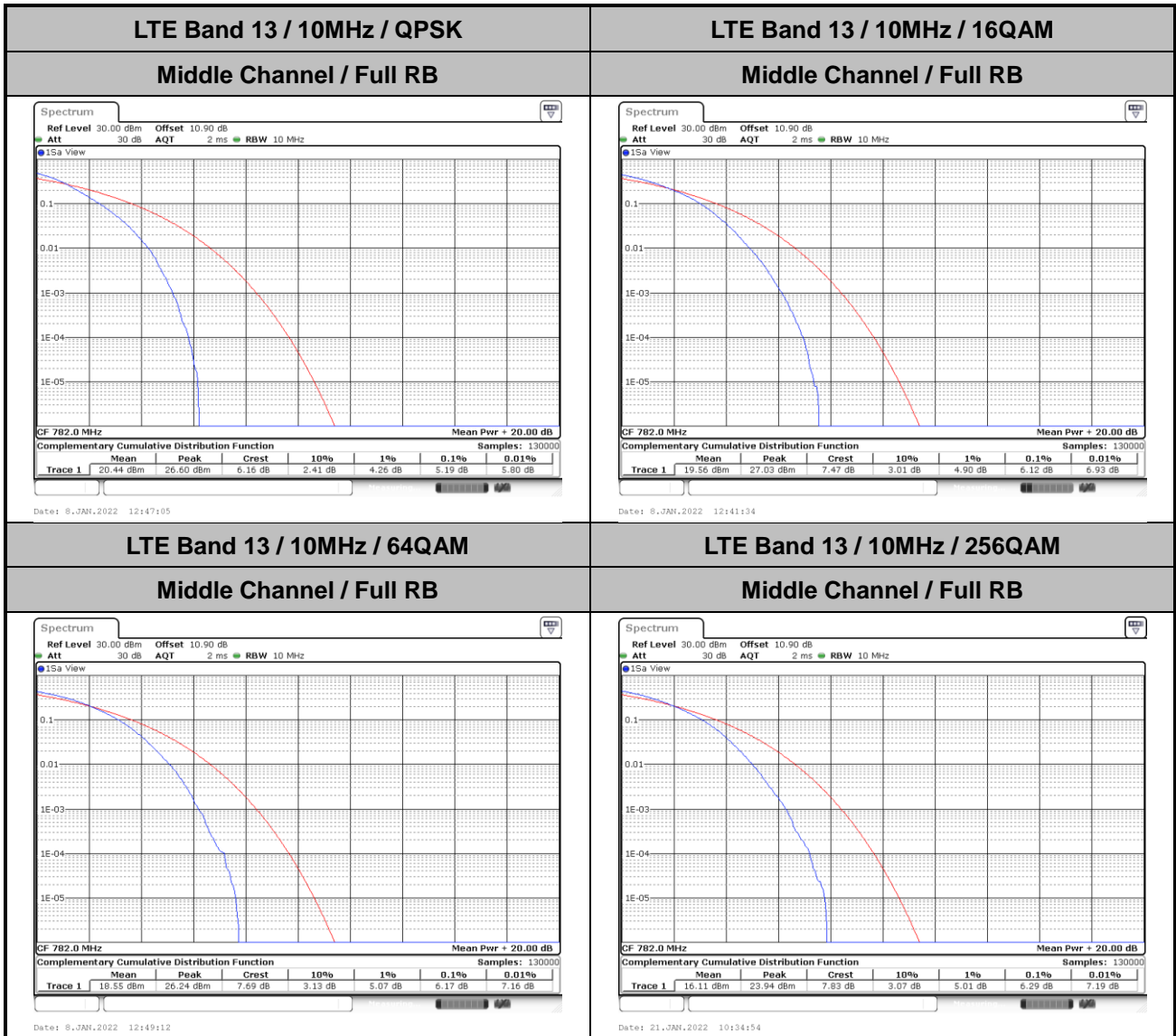
Date: 18.JAN.2022 19:44:40



## 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	5.19	6.12	6.17	6.29	PASS





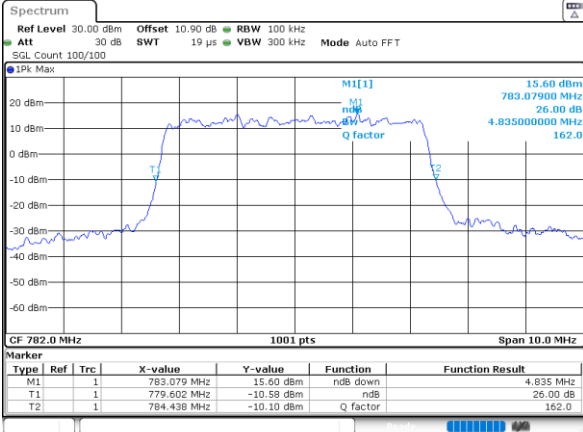
**26dB Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	4.84	4.91	9.63	9.71	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.86	4.89	9.65	9.85	-	-	-	-



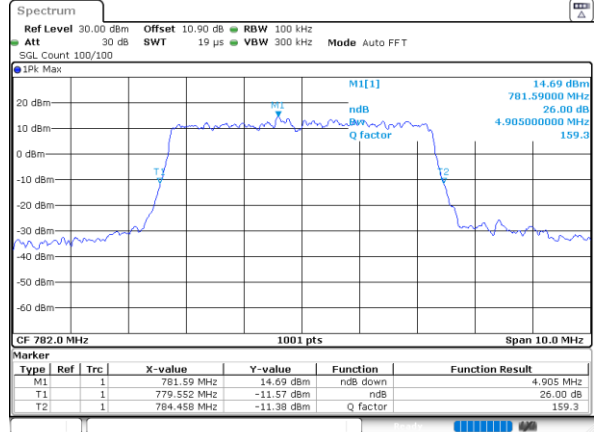
LTE Band 13

Middle Channel / 5MHz / QPSK



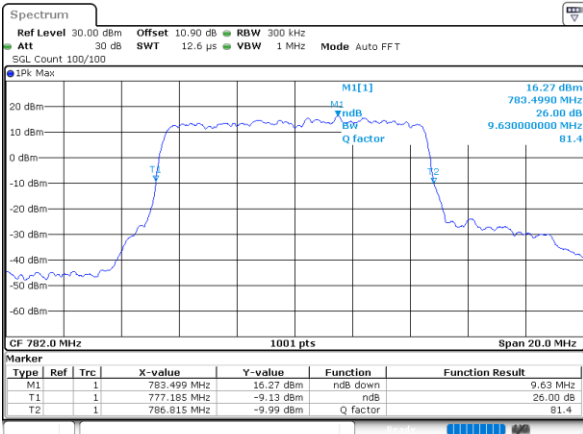
Date: 5 JAN, 2022 15:22:56

Middle Channel / 5MHz / 16QAM



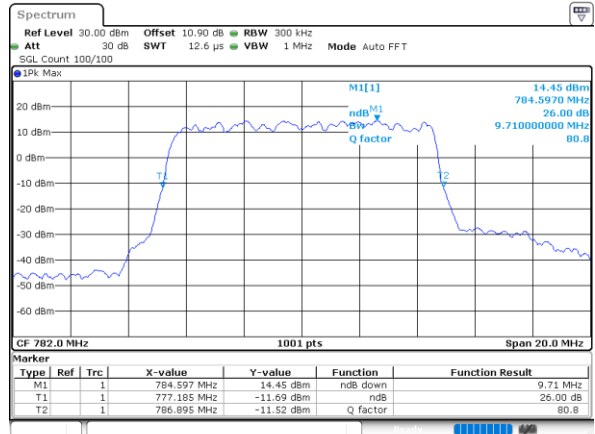
Date: 5 JAN, 2022 15:23:17

Middle Channel / 10MHz / QPSK



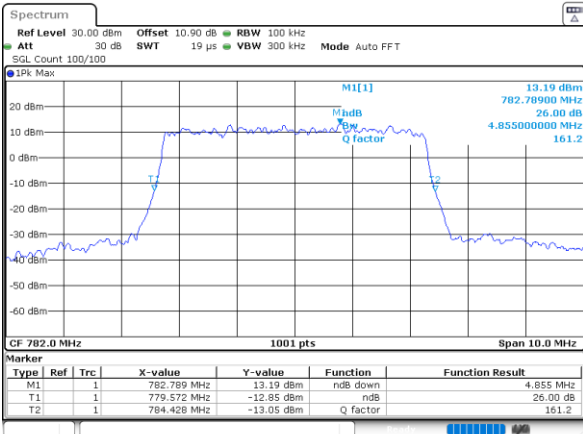
Date: 6 JAN, 2022 12:22:44

Middle Channel / 10MHz / 16QAM



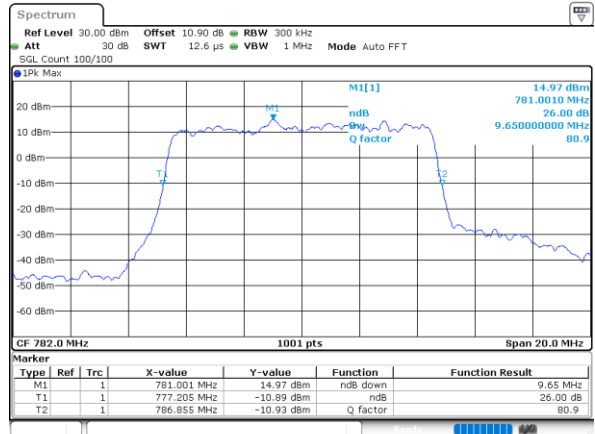
Date: 6 JAN, 2022 12:22:53

Middle Channel / 5MHz / 64QAM



Date: 5 JAN, 2022 15:13:18

Middle Channel / 10MHz / 64QAM



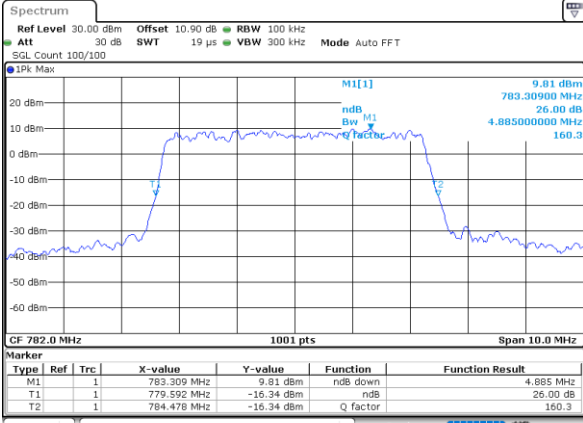
Date: 6 JAN, 2022 12:35:20



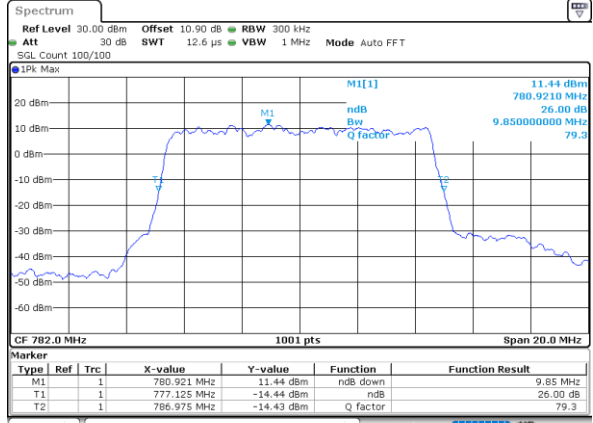
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 21.JAN.2022 10:20:09



Date: 21.JAN.2022 10:30:48



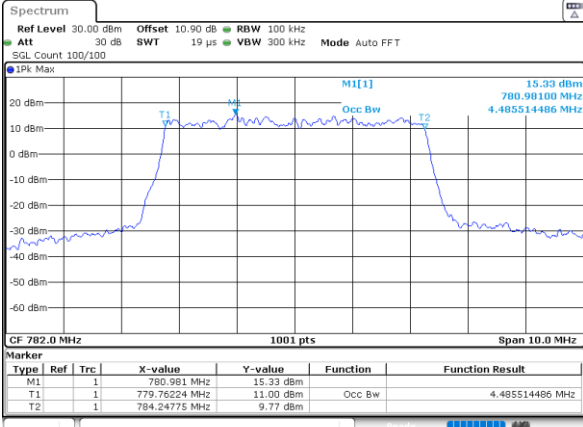
**Occupied Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	4.49	4.48	9.07	9.01	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.48	4.48	8.97	8.97	-	-	-	-



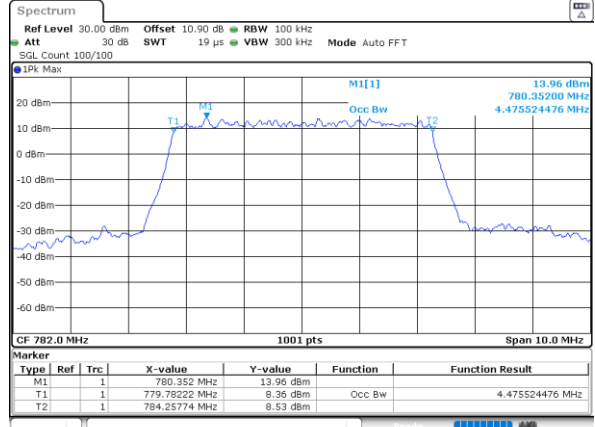
LTE Band 13

Middle Channel / 5MHz / QPSK



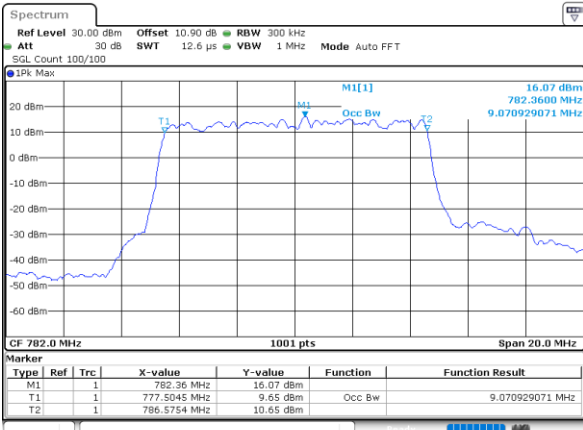
Date: 5 JAN 2022 15:23:58

Middle Channel / 5MHz / 16QAM



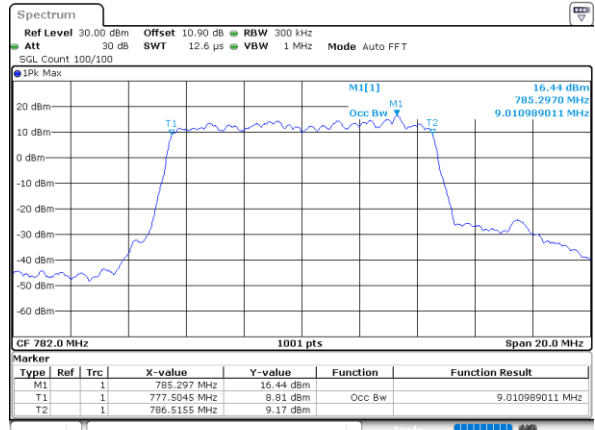
Date: 5 JAN 2022 15:23:38

Middle Channel / 10MHz / QPSK



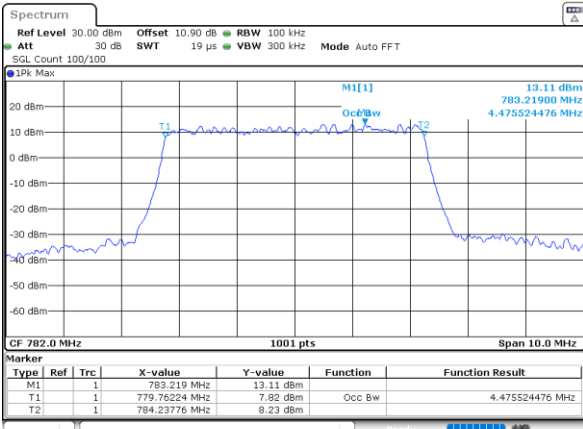
Date: 6 JAN 2022 12:21:42

Middle Channel / 10MHz / 16QAM



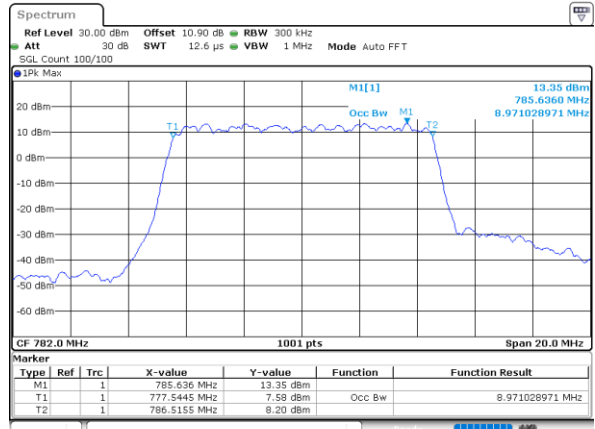
Date: 6 JAN 2022 12:22:03

Middle Channel / 5MHz / 64QAM



Date: 5 JAN 2022 15:13:19

Middle Channel / 10MHz / 64QAM



Date: 6 JAN 2022 12:14:59

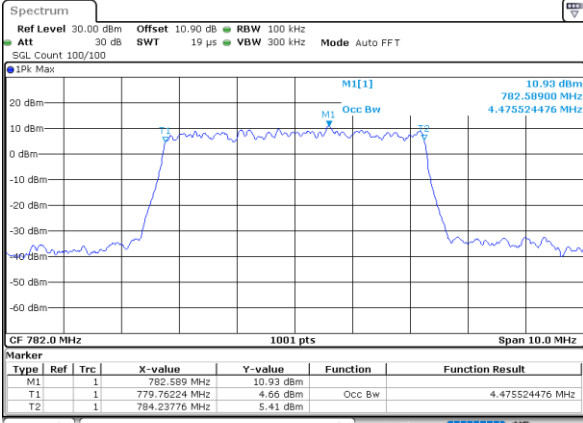




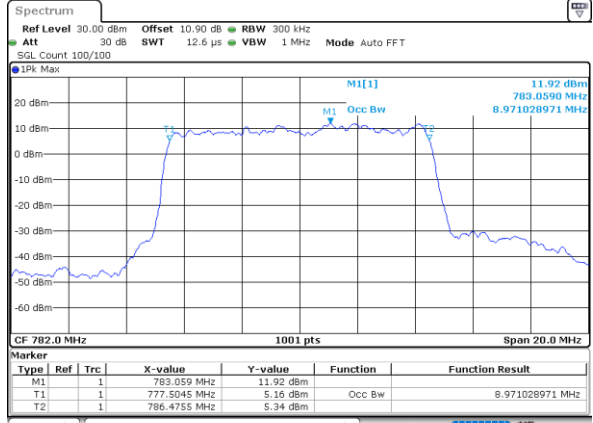
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 21.JAN.2022 10:21:30



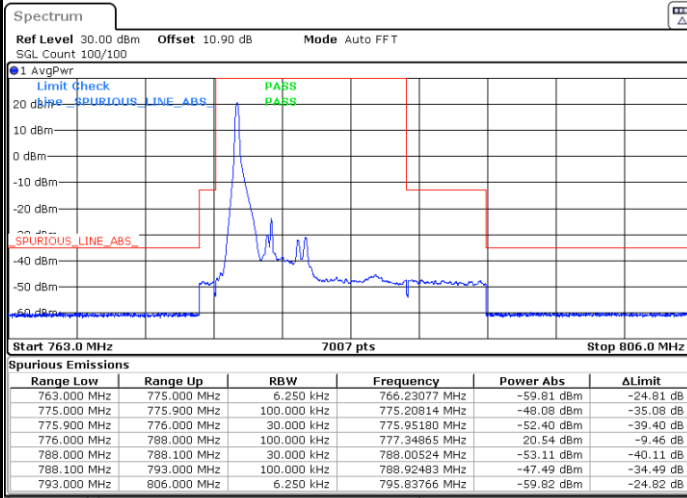
Date: 21.JAN.2022 10:30:05



# Conducted Band Edge

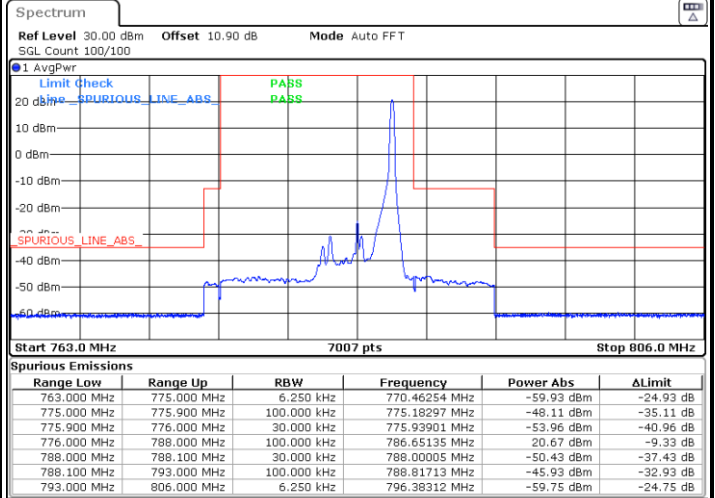
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



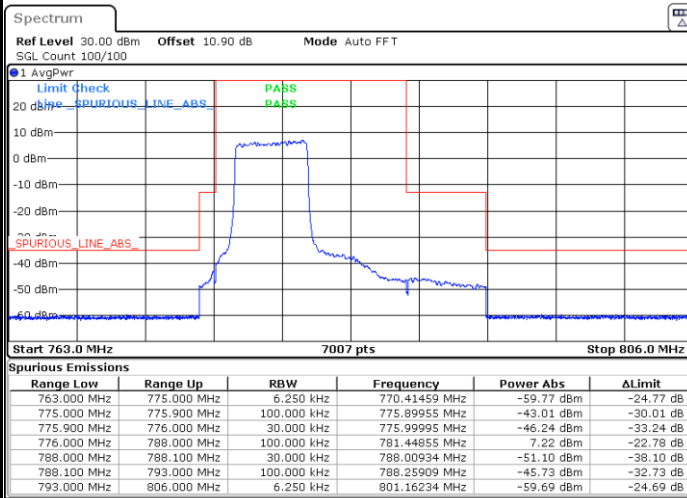
Date: 5.JAN.2022 15:20:46

### Highest Band Edge / 1 RB



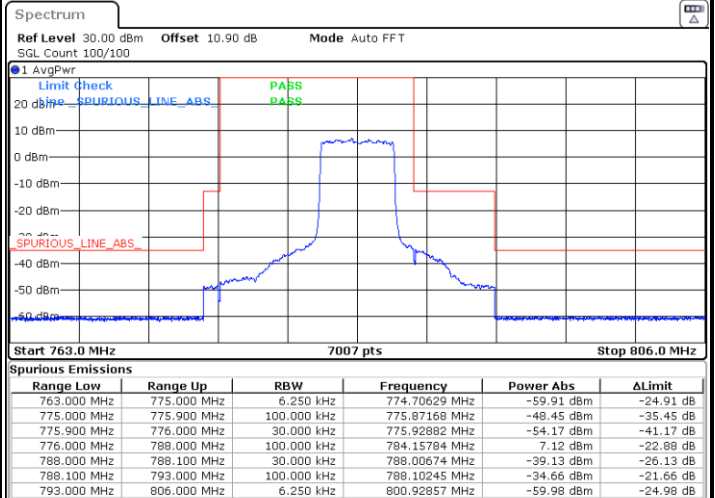
Date: 5.JAN.2022 15:31:20

### Lowest Band Edge / Full RB



Date: 5.JAN.2022 15:15:14

### Highest Band Edge / Full RB



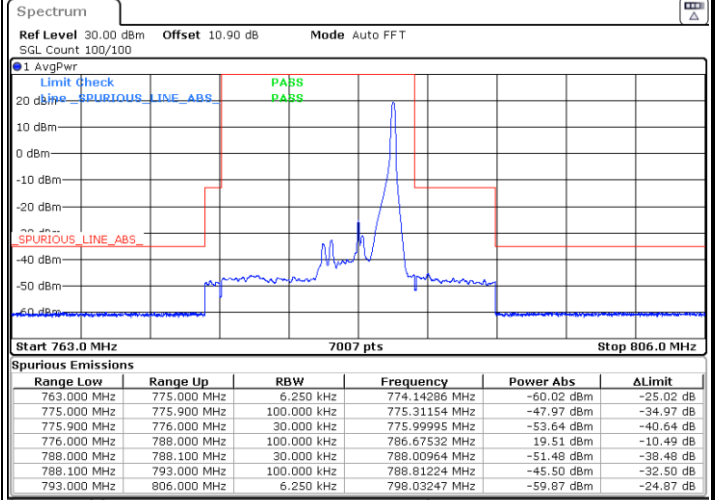
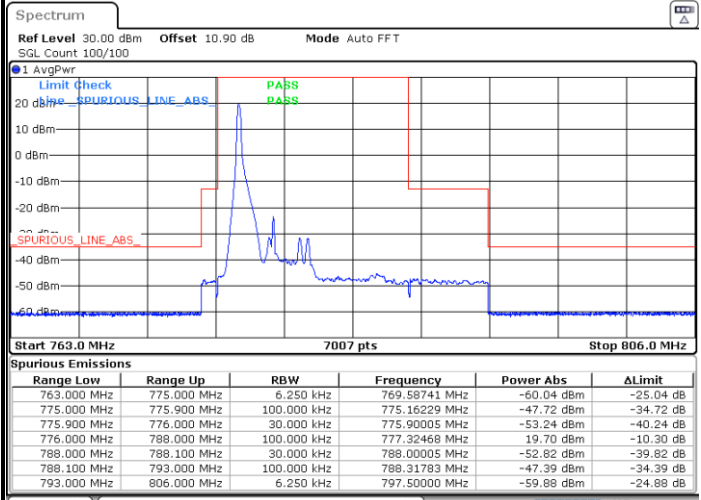
Date: 5.JAN.2022 15:25:49



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

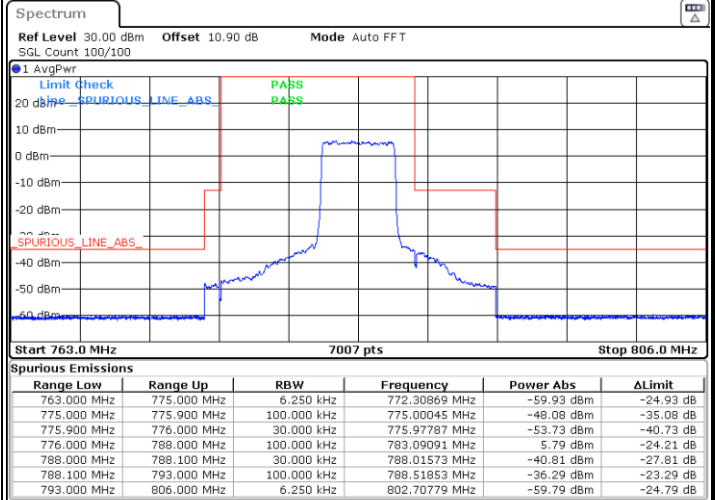
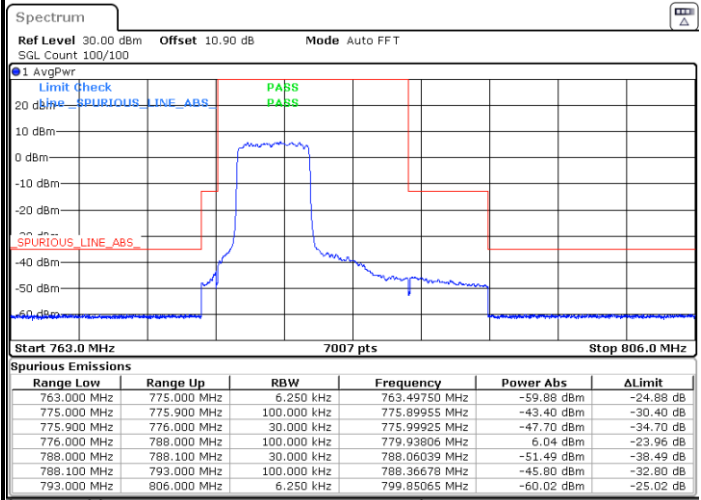


Date: 5. JAN. 2022 15:18:55

Date: 5. JAN. 2022 15:29:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5. JAN. 2022 15:17:05

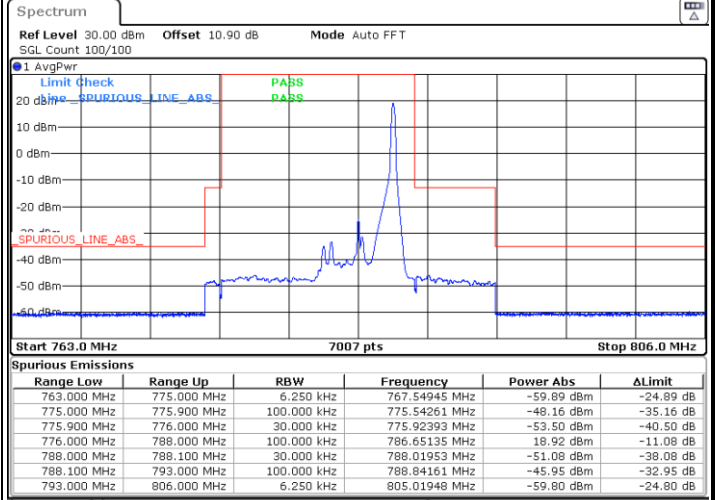
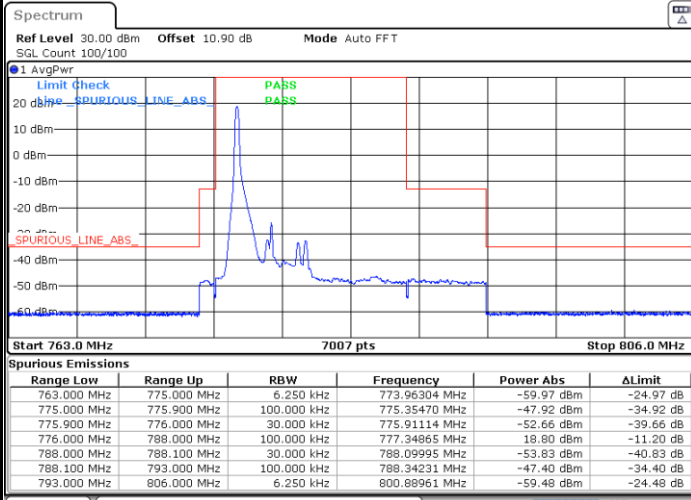
Date: 5. JAN. 2022 15:27:39



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

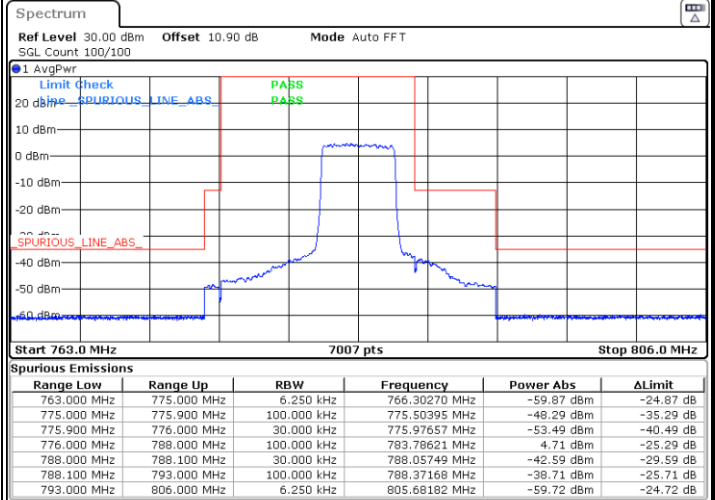
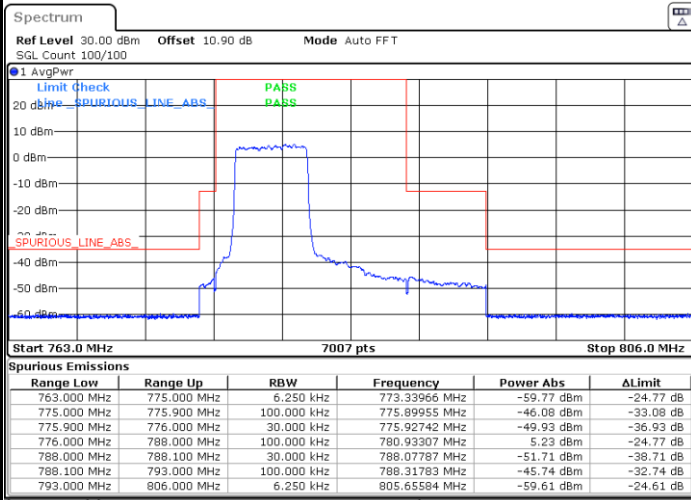


Date: 5.JAN.2022 15:35:56

Date: 5.JAN.2022 15:40:19

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.JAN.2022 15:34:05

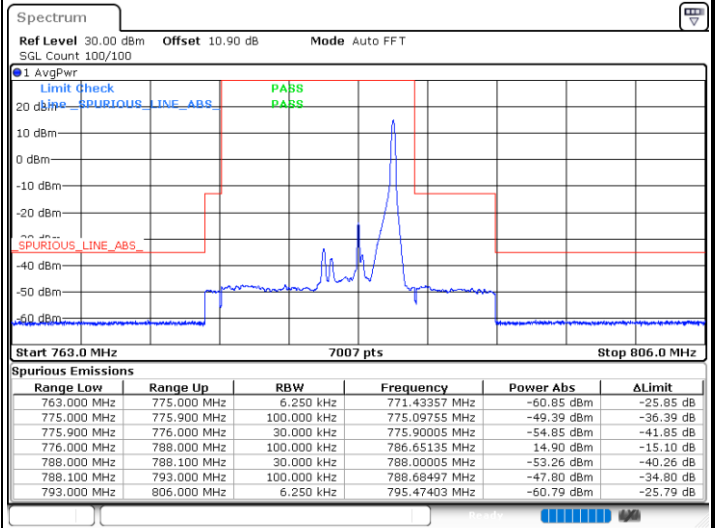
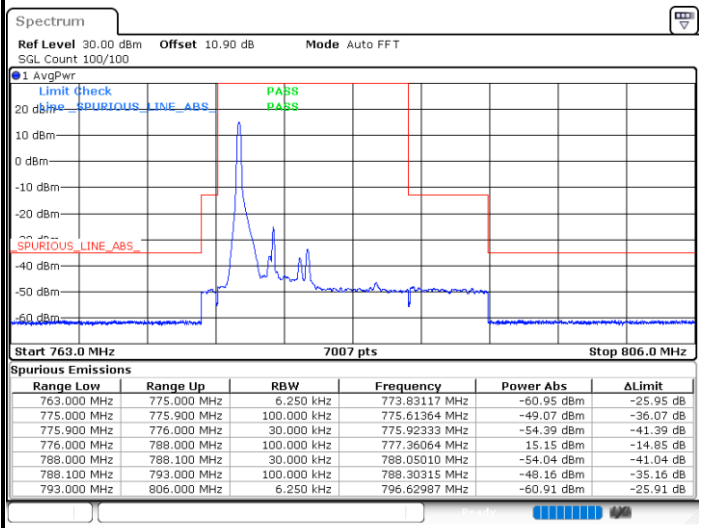
Date: 5.JAN.2022 15:38:29



LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

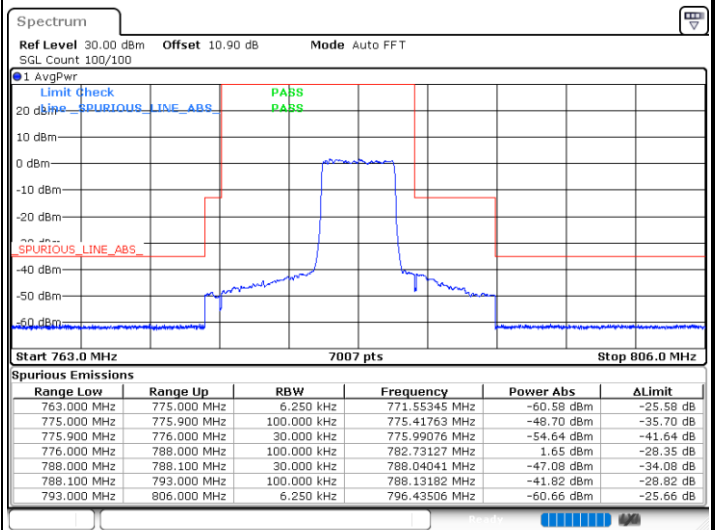
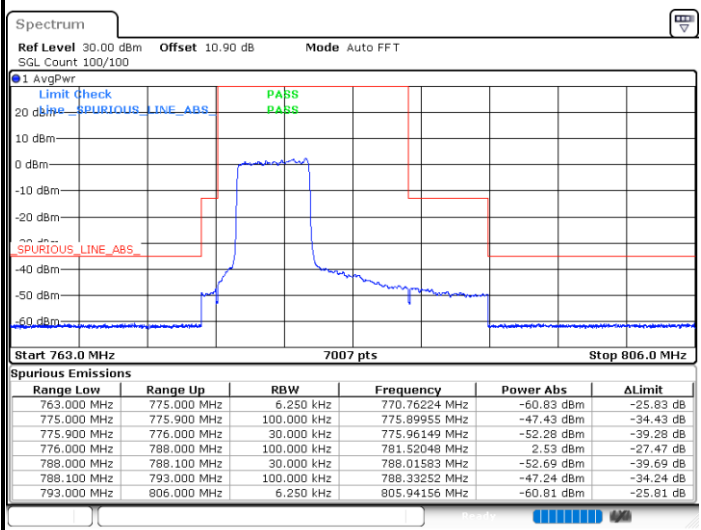


Date: 21.JAN.2022 10:08:46

Date: 21.JAN.2022 10:26:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.JAN.2022 10:07:45

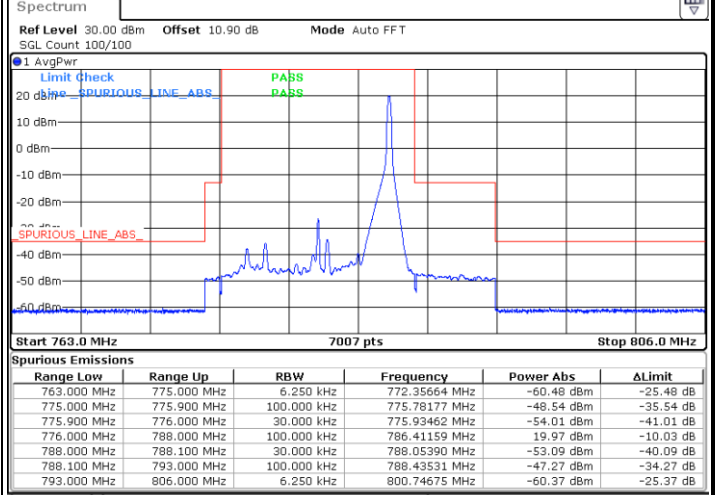
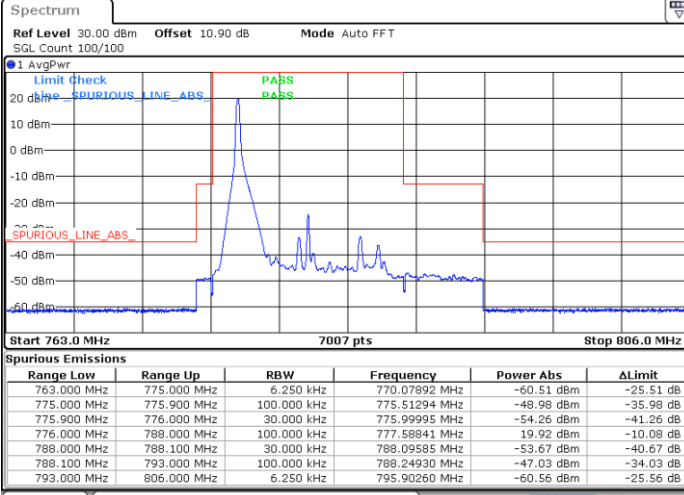
Date: 21.JAN.2022 10:25:27



LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

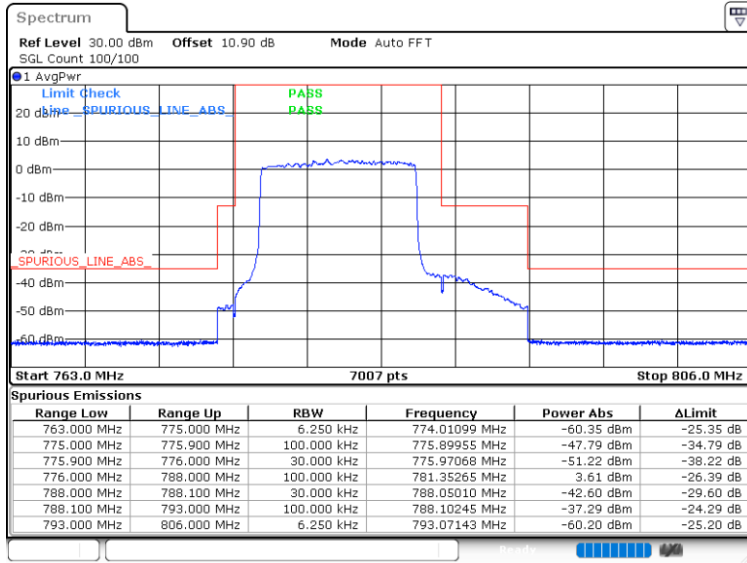
Highest Band Edge / 1 RB



Date: 8.JAN.2022 12:30:04

Date: 8.JAN.2022 12:31:54

Band Edge / Full RB



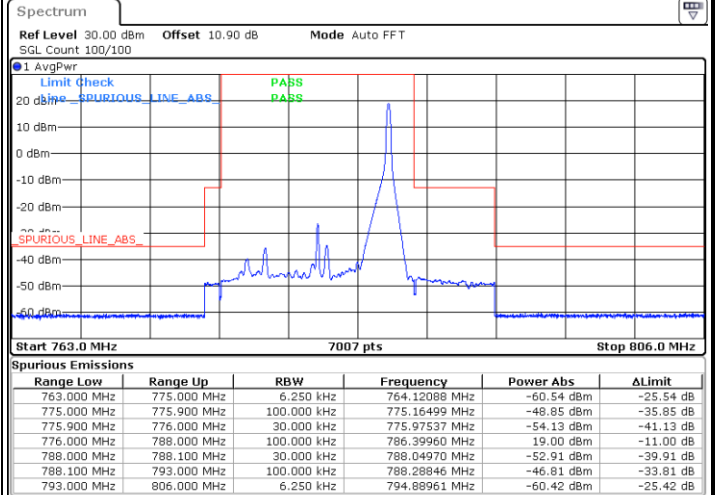
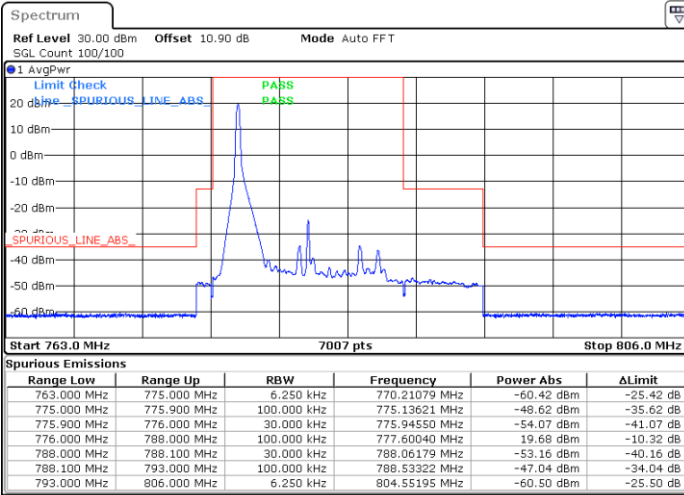
Date: 8.JAN.2022 12:24:34



LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

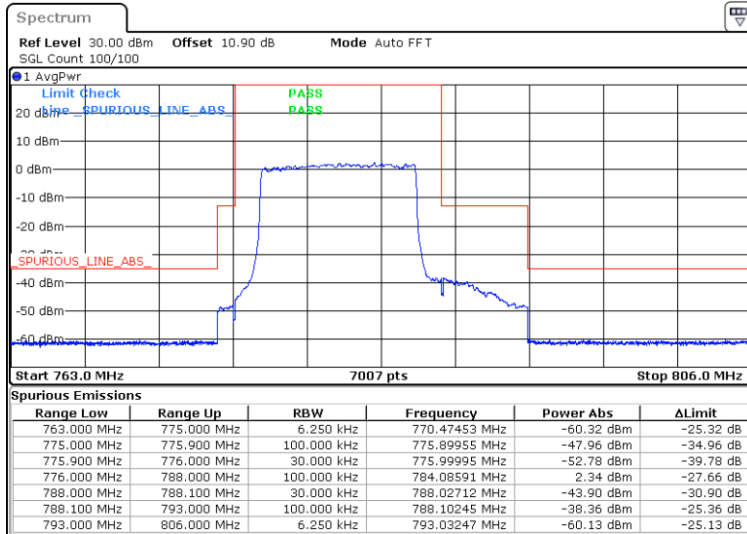
Highest Band Edge / 1 RB



Date: 8.JAN.2022 12:28:14

Date: 8.JAN.2022 12:33:44

Band Edge / Full RB

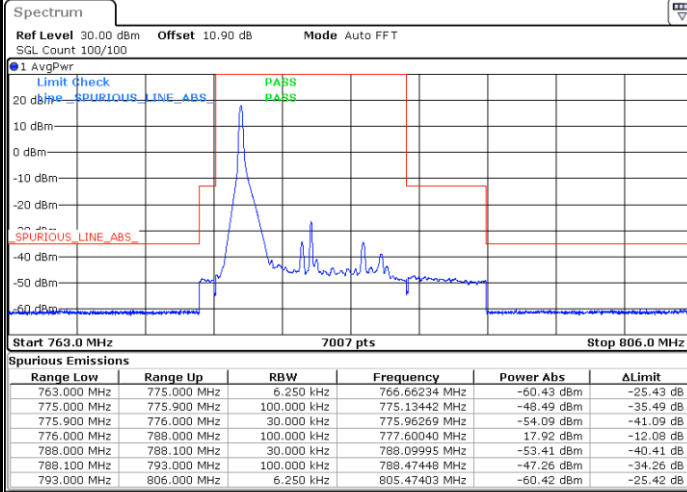


Date: 8.JAN.2022 12:26:24



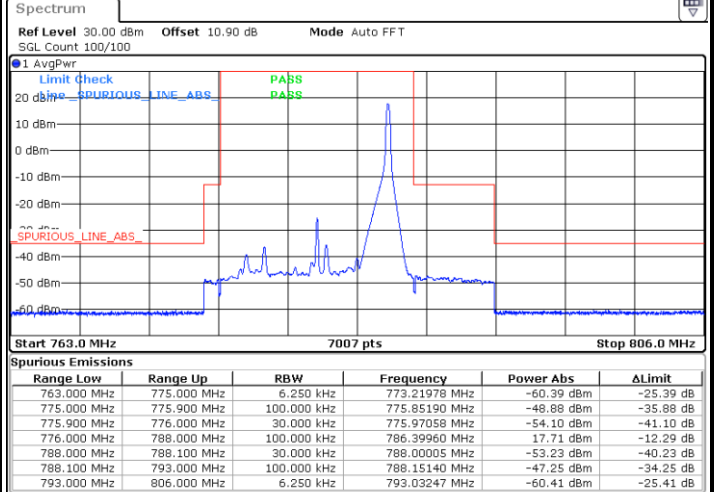
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



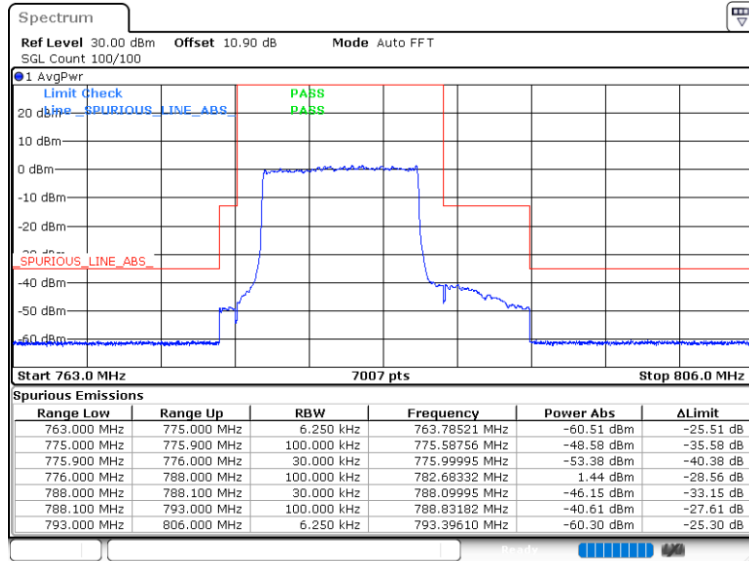
Date: 8.JAN.2022 12:39:00

Highest Band Edge / 1 RB



Date: 8.JAN.2022 12:40:50

Band Edge / Full RB



Date: 8.JAN.2022 12:37:10

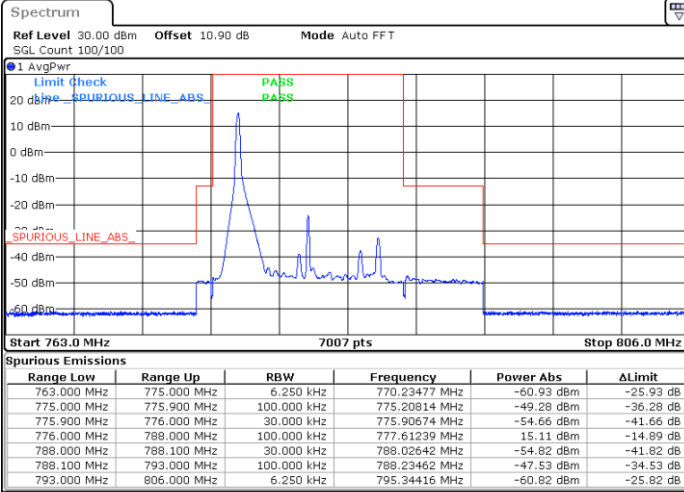




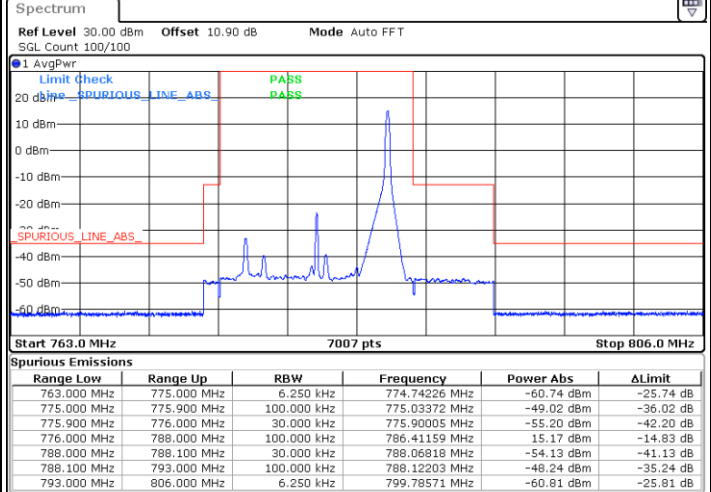
LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

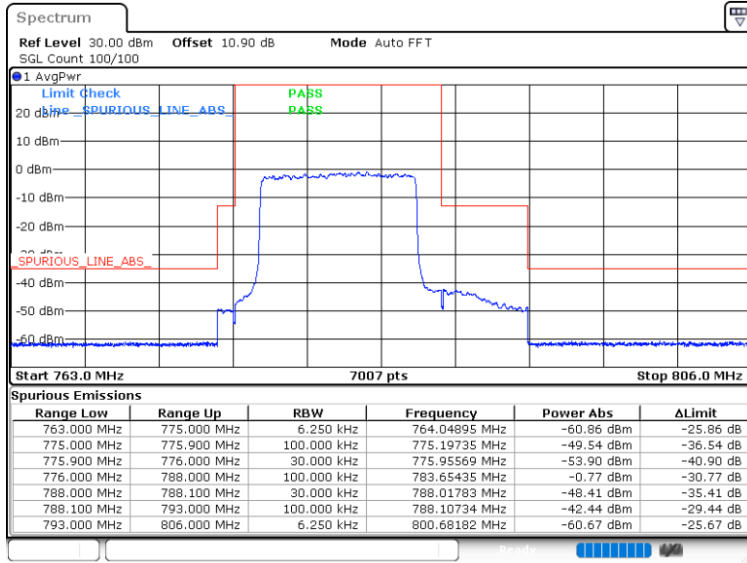


Date: 21.JAN.2022 10:33:48



Date: 21.JAN.2022 10:34:18

Band Edge / Full RB



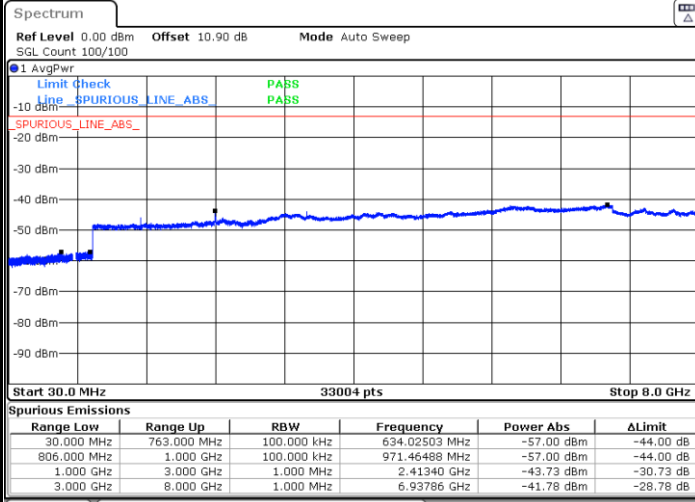
Date: 21.JAN.2022 10:33:12



# Conducted Spurious Emission

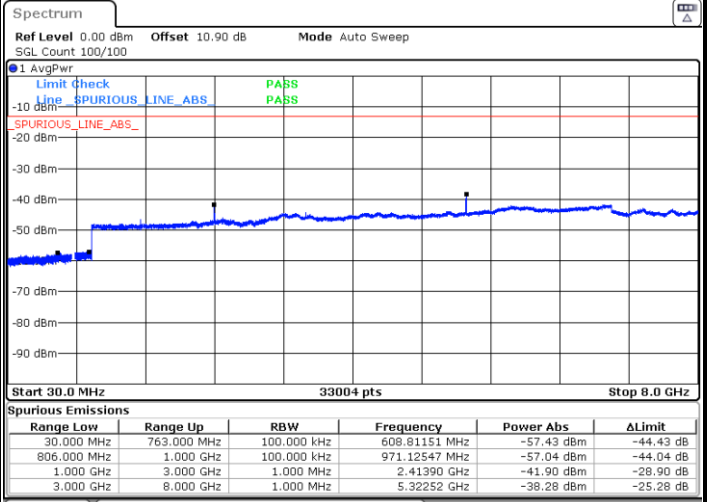
## LTE Band 13 / 5MHz

### Lowest Channel / QPSK



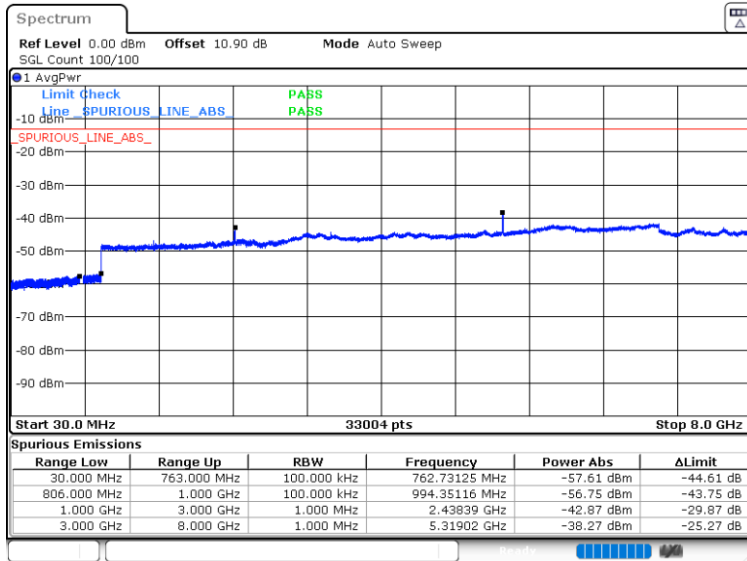
Date: 5.JAN.2022 15:21:40

### Middle Channel / QPSK



Date: 5.JAN.2022 15:22:35

### Highest Channel / QPSK

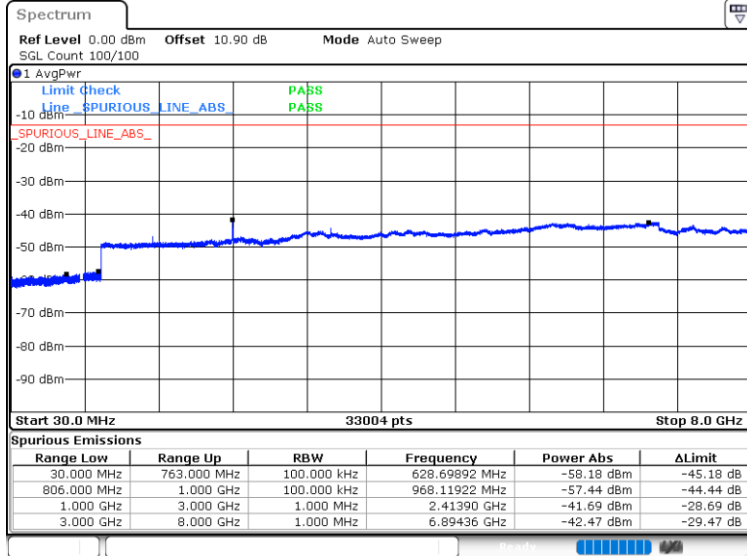


Date: 5.JAN.2022 15:32:15



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 8-JAN-2022 12:34:38



### 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	0.0091	PASS
40	Normal Voltage	0.0118	
30	Normal Voltage	0.0129	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0042	
-20	Normal Voltage	0.0075	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0078	

**Note:**

- 1. Normal Voltage =115 V. ; Battery End Point (BEP) =105 V. ; Maximum Voltage =125 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 66

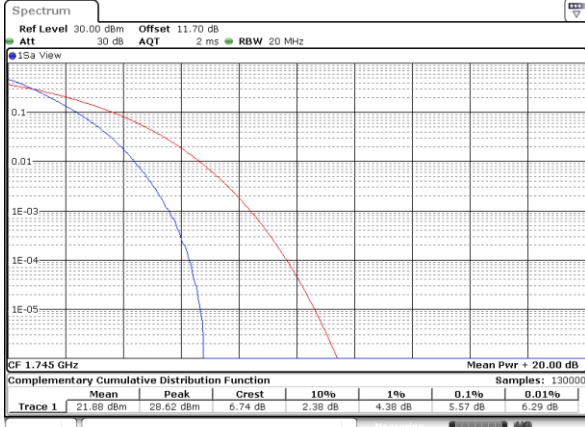
### Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.57	6.43	6.41	6.61	<b>PASS</b>



LTE Band 66 / 20MHz / QPSK

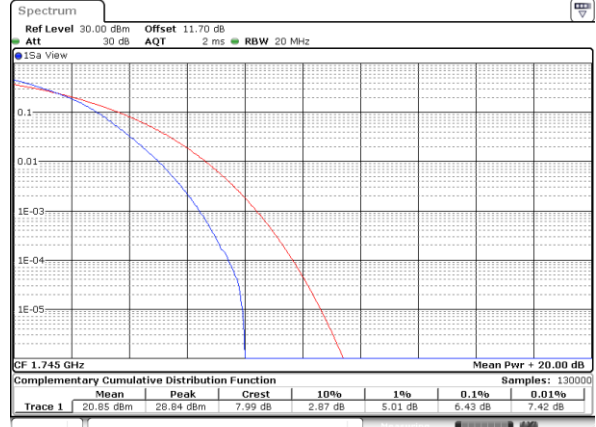
Middle Channel / Full RB



Date: 9 JAN. 2022 07:12:44

LTE Band 66 / 20MHz / 16QAM

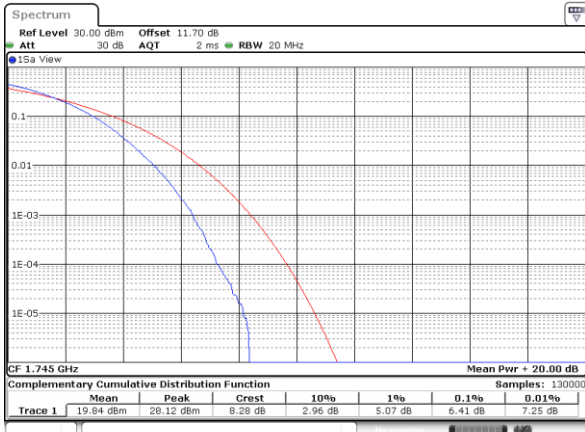
Middle Channel / Full RB



Date: 9 JAN. 2022 07:24:01

LTE Band 66 / 20MHz / 64QAM

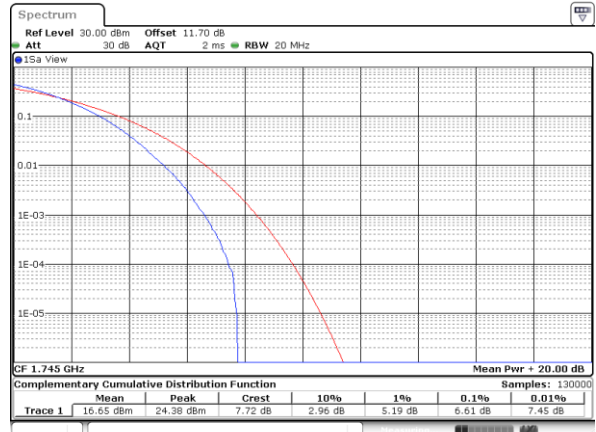
Middle Channel / Full RB



Date: 9 JAN. 2022 07:26:24

LTE Band 66 / 20MHz / 256QAM

Middle Channel / Full RB



Date: 21 JAN. 2022 17:20:35



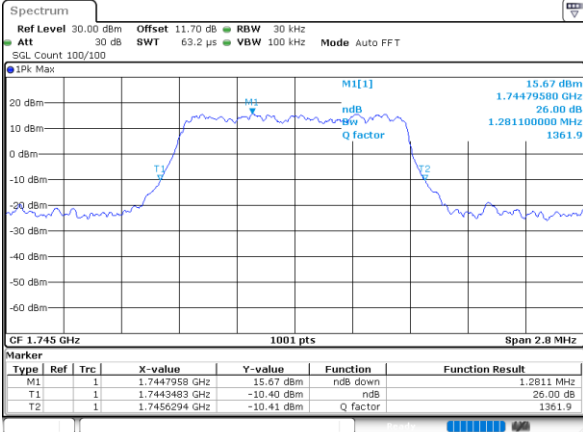
**26dB Bandwidth**

Mode	LTE Band 66 : 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	1.28	1.28	3.00	2.94	4.93	4.90	9.81	9.65	14.39	14.24	18.62	19.02
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.26	1.24	2.94	3.01	4.89	4.91	9.79	9.73	14.33	14.15	18.66	18.97



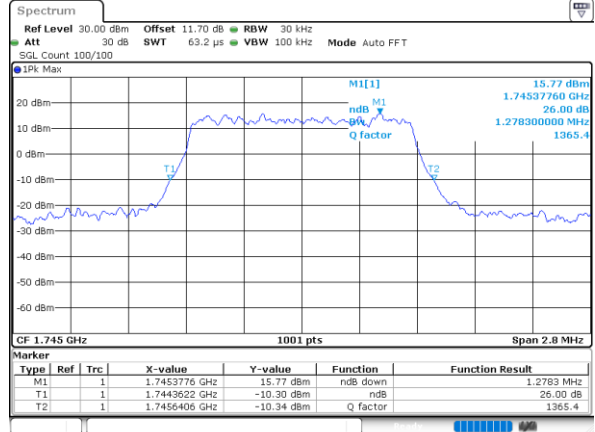
LTE Band 66

Middle Channel / 1.4MHz / QPSK



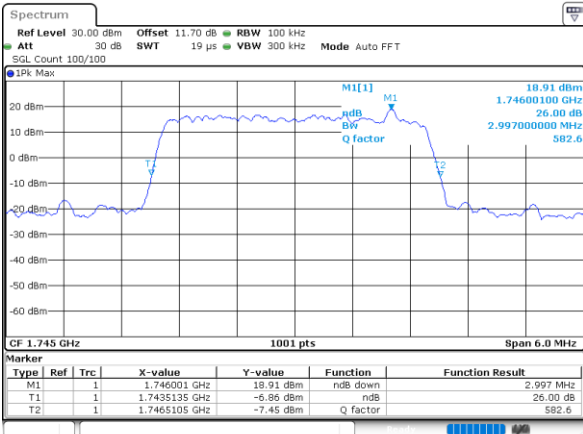
Date: 9, JAN, 2022 05:55:55

Middle Channel / 1.4MHz / 16QAM



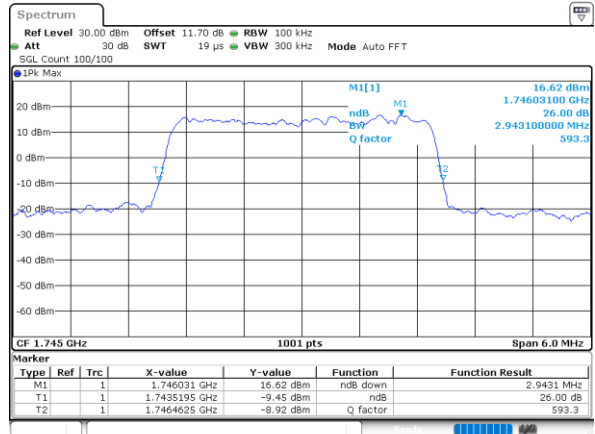
Date: 9, JAN, 2022 05:56:17

Middle Channel / 3MHz / QPSK



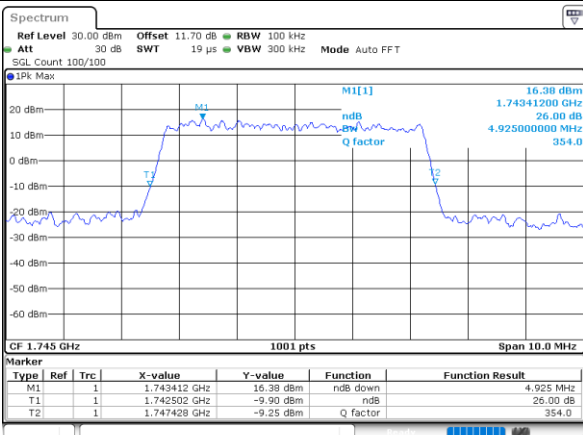
Date: 9, JAN, 2022 06:14:36

Middle Channel / 3MHz / 16QAM



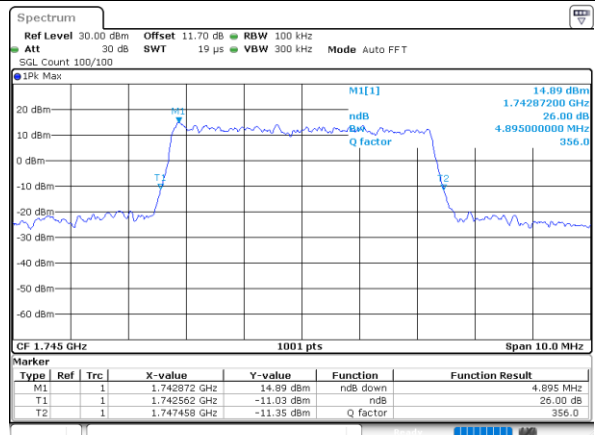
Date: 9, JAN, 2022 06:14:58

Middle Channel / 5MHz / QPSK



Date: 9, JAN, 2022 06:13:24

Middle Channel / 5MHz / 16QAM



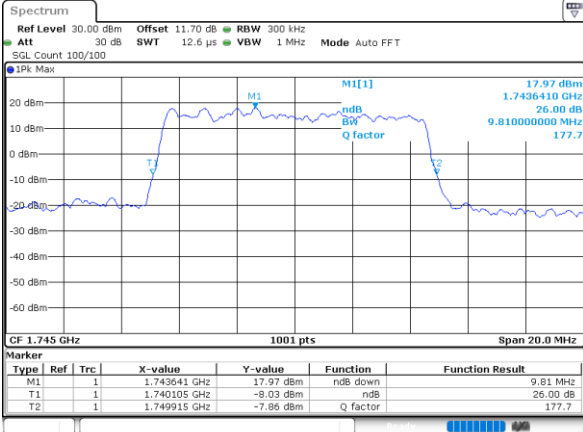
Date: 9, JAN, 2022 06:13:46





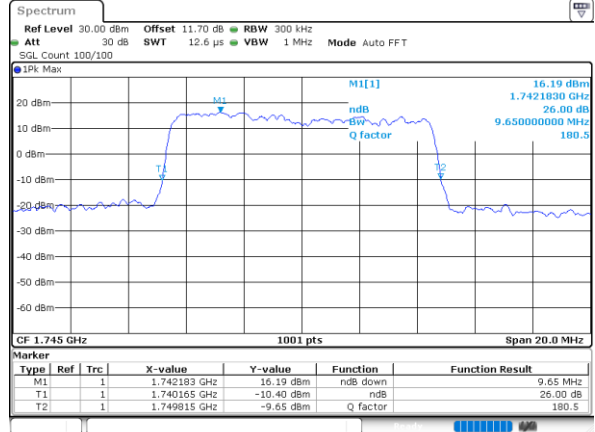
LTE Band 66

Middle Channel / 10MHz / QPSK



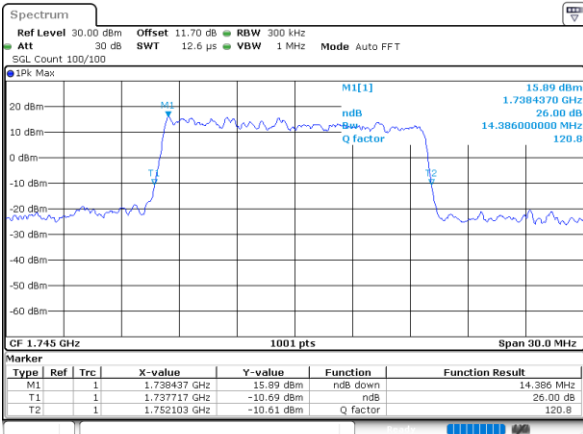
Date: 9, JAN, 2022 06:14:25

Middle Channel / 10MHz / 16QAM



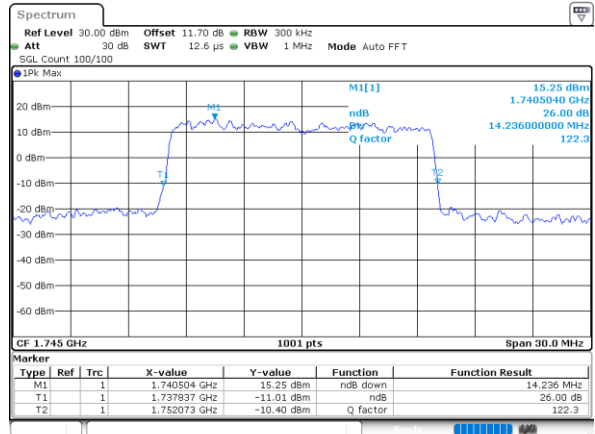
Date: 9, JAN, 2022 06:14:46

Middle Channel / 15MHz / QPSK



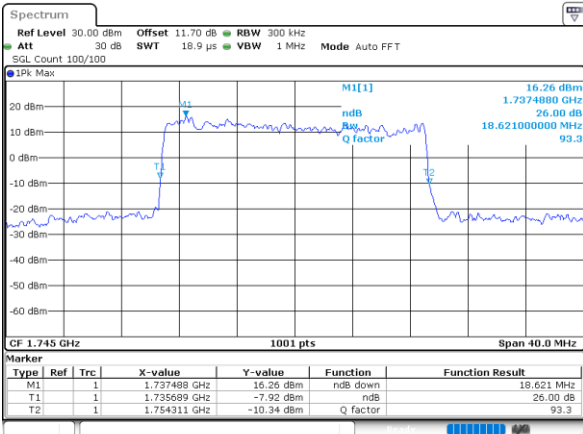
Date: 9, JAN, 2022 07:03:12

Middle Channel / 15MHz / 16QAM



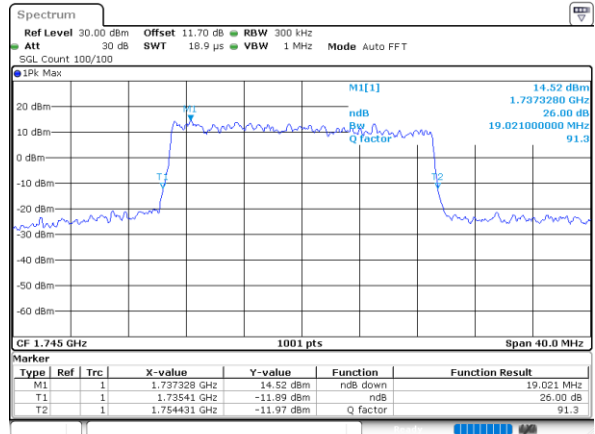
Date: 9, JAN, 2022 07:03:33

Middle Channel / 20MHz / QPSK



Date: 9, JAN, 2022 07:14:11

Middle Channel / 20MHz / 16QAM

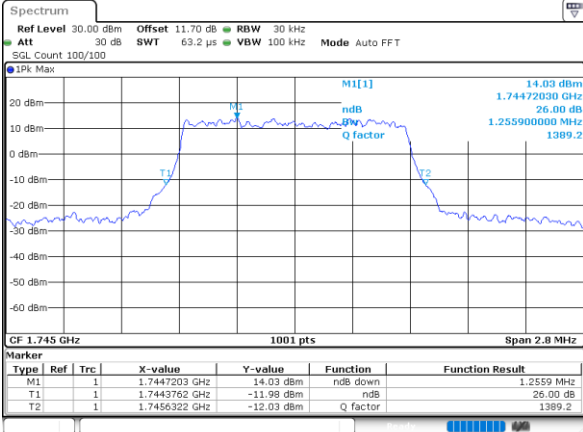


Date: 9, JAN, 2022 07:14:32



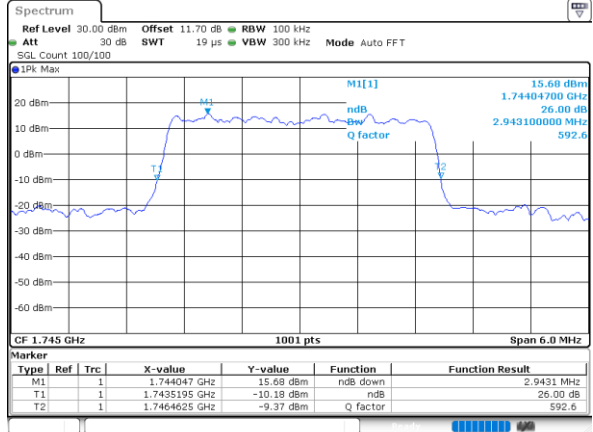
LTE Band 66

Middle Channel / 1.4MHz / 64QAM



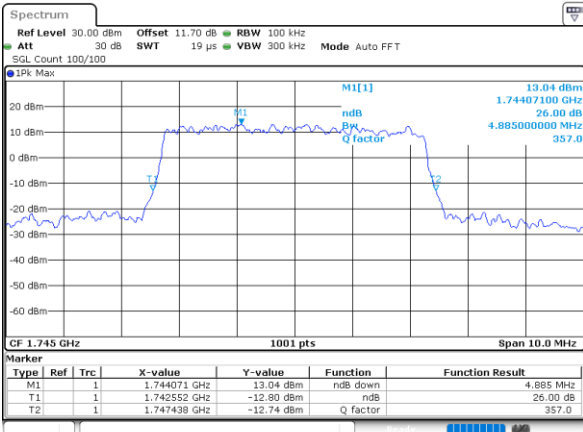
Date: 9, JAN, 2022 06:10:41

Middle Channel / 3MHz / 64QAM



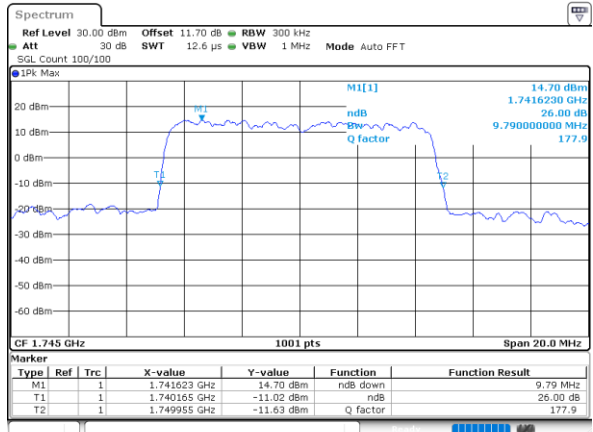
Date: 9, JAN, 2022 06:22:22

Middle Channel / 5MHz / 64QAM



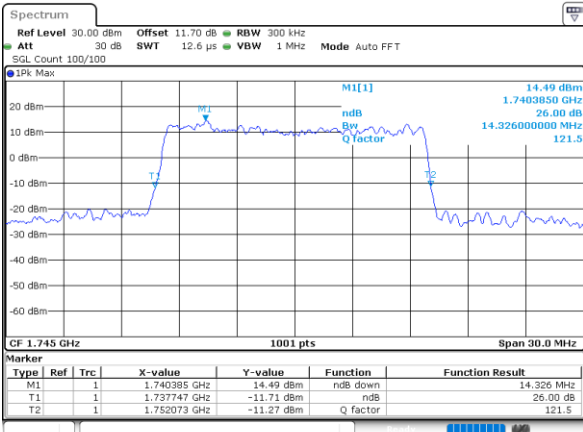
Date: 9, JAN, 2022 06:12:27

Middle Channel / 10MHz / 64QAM



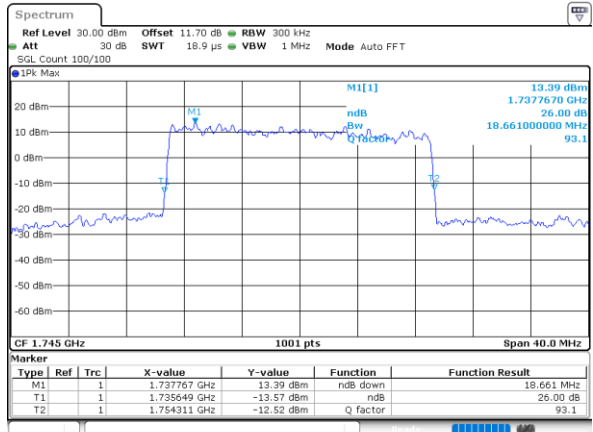
Date: 9, JAN, 2022 06:12:11

Middle Channel / 15MHz / 64QAM



Date: 9, JAN, 2022 06:15:16

Middle Channel / 20MHz / 64QAM



Date: 9, JAN, 2022 07:21:58