

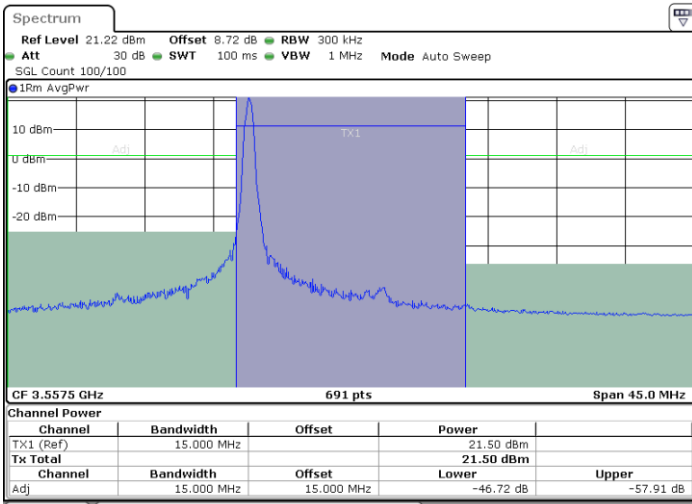


LTE Band 48 / 15MHz

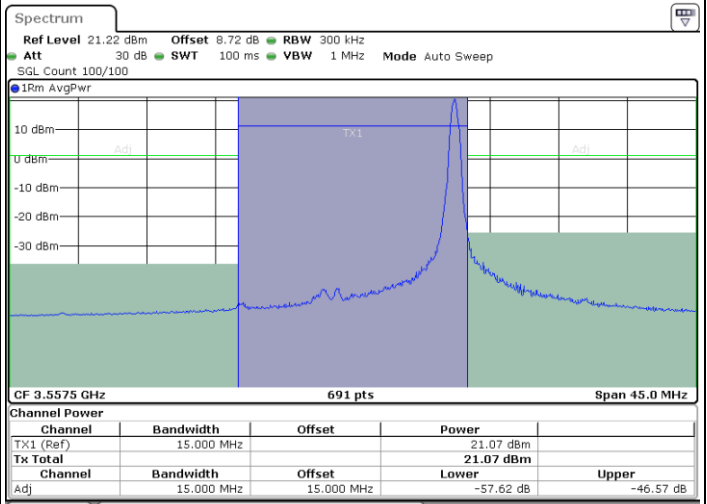
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

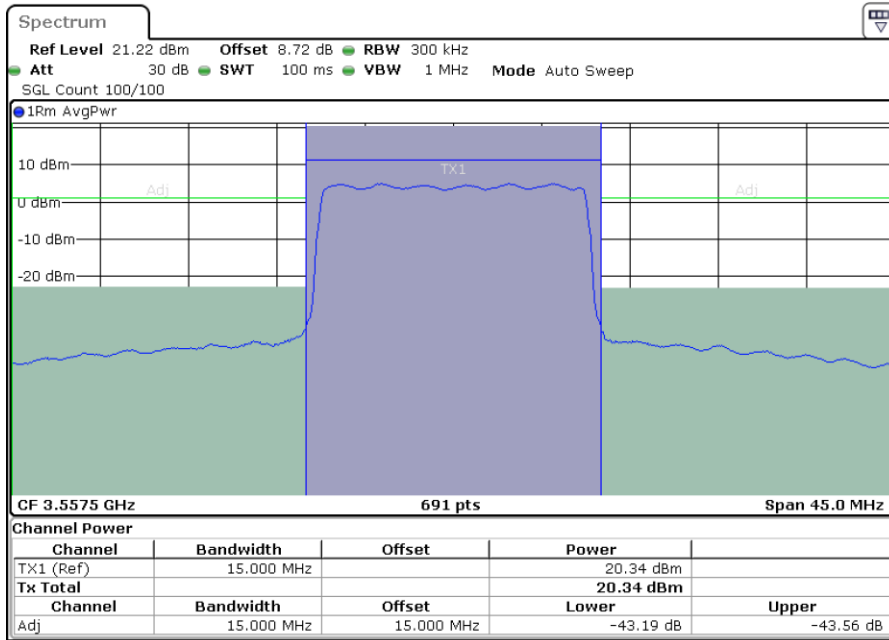


Date: 11.FEB.2023 02:48:21



Date: 11.FEB.2023 02:50:16

Lowest Channel / FullIRB



Date: 11.FEB.2023 02:52:10

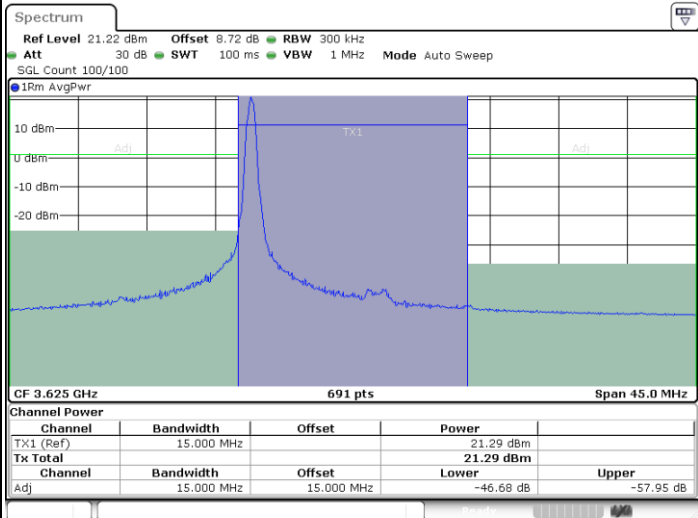


LTE Band 48 / 15MHz

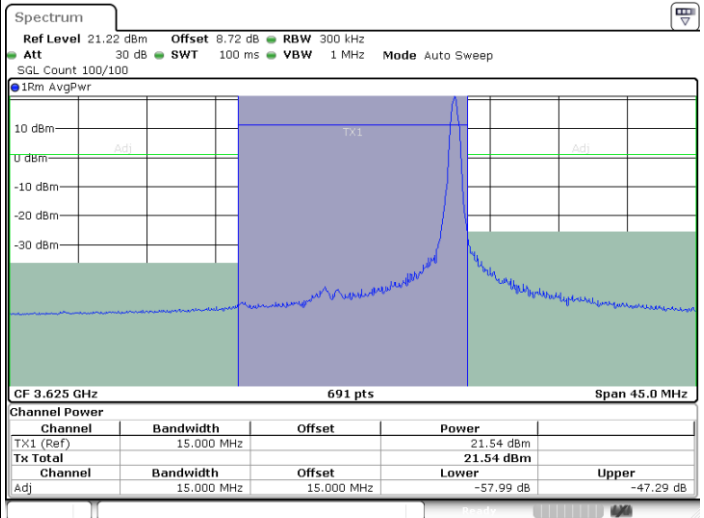
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

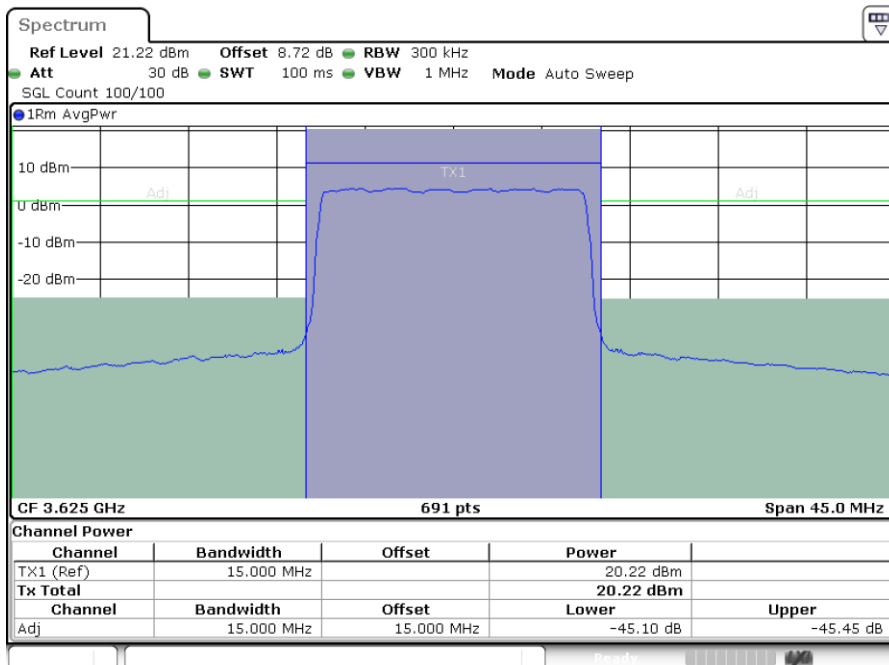


Date: 11.FEB.2023 02:54:03



Date: 11.FEB.2023 02:55:55

Middle Channel / FullRB



Date: 11.FEB.2023 02:57:48

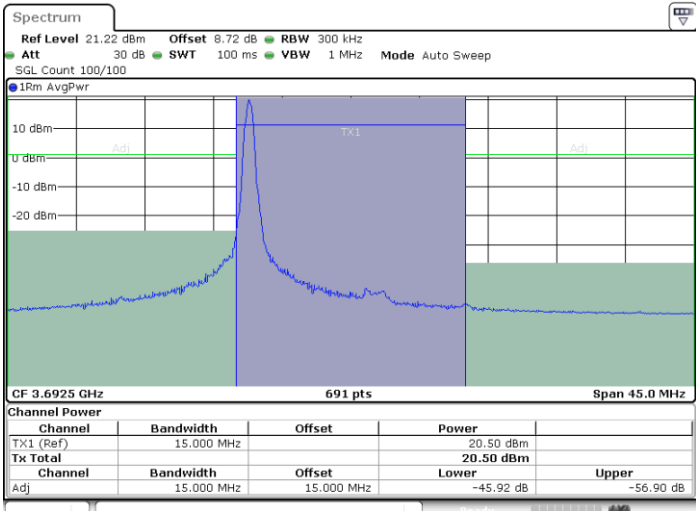


LTE Band 48 / 15MHz

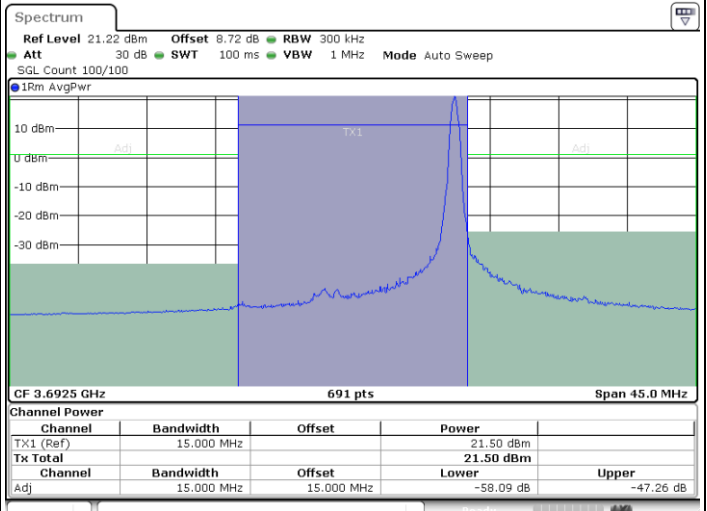
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

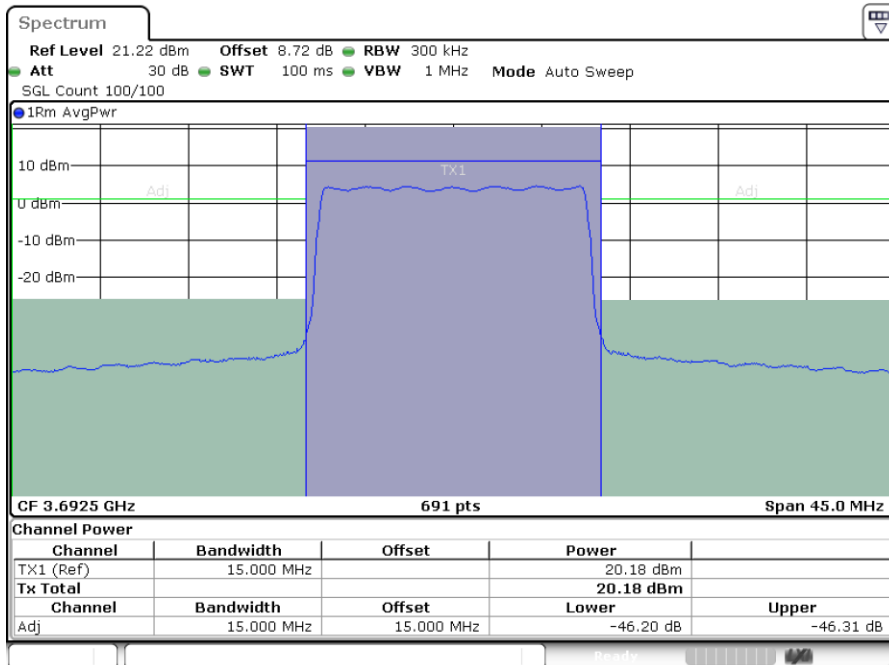


Date: 11.FEB.2023 02:59:41



Date: 11.FEB.2023 03:01:35

Highest Channel / FullRB



Date: 11.FEB.2023 03:03:28

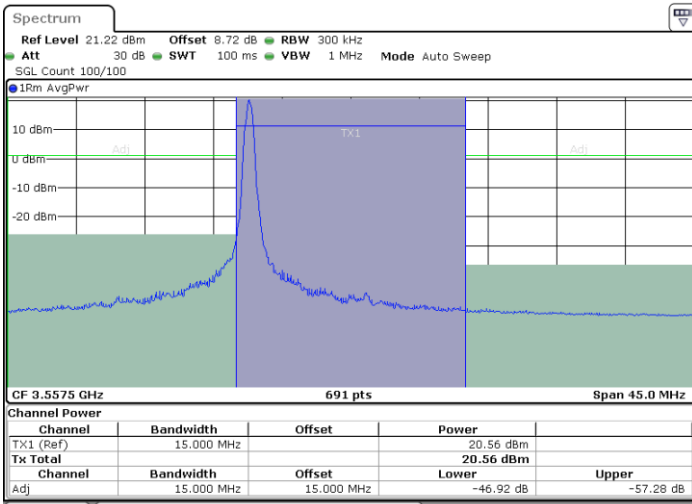


LTE Band 48 / 15MHz

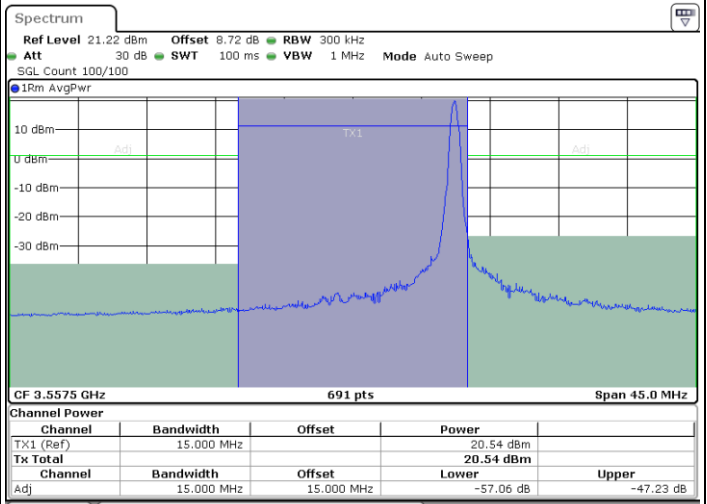
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

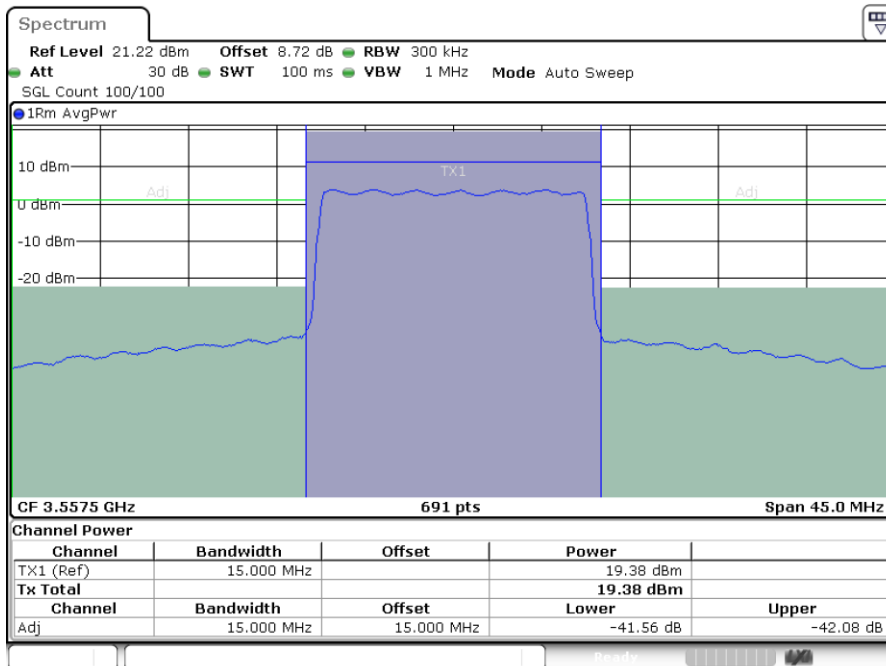


Date: 11.FEB.2023 02:48:59



Date: 11.FEB.2023 02:50:54

Lowest Channel / FullRB



Date: 11.FEB.2023 02:51:32

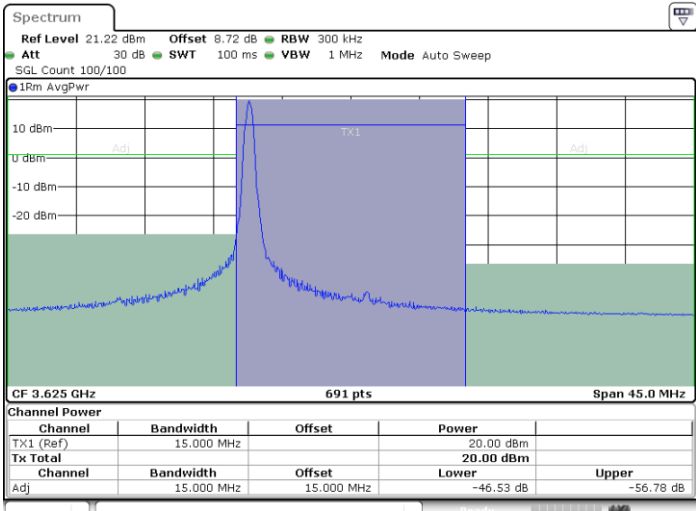


LTE Band 48 / 15MHz

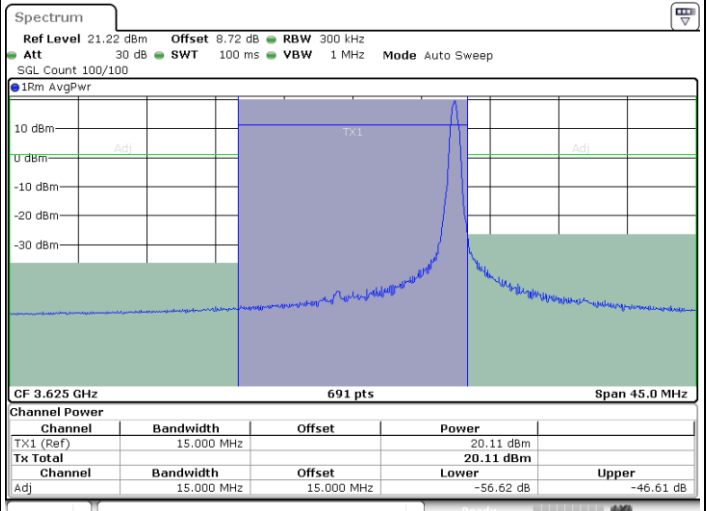
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

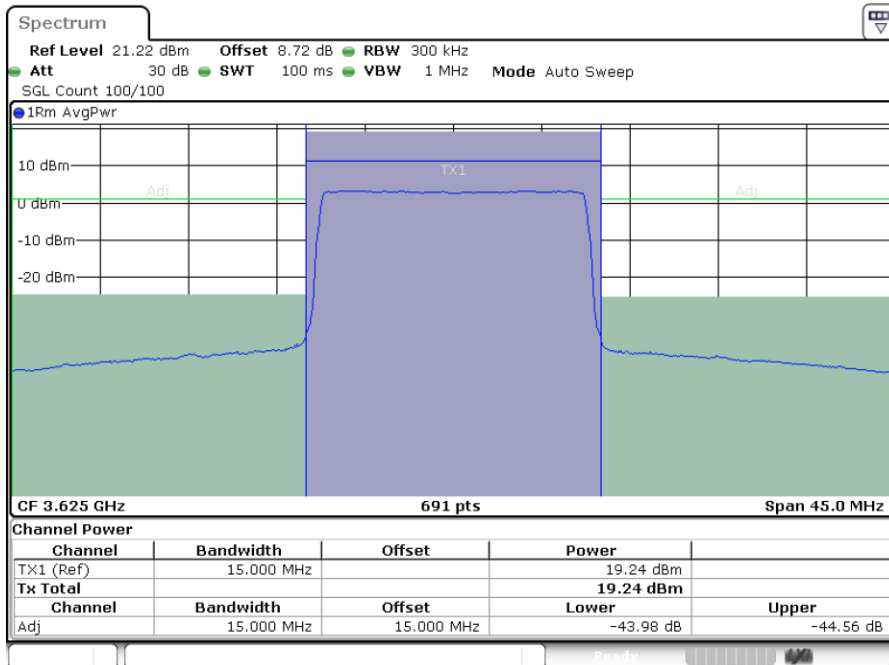


Date: 11.FEB.2023 02:54:41



Date: 11.FEB.2023 02:55:18

Middle Channel / FullRB



Date: 11.FEB.2023 02:58:25

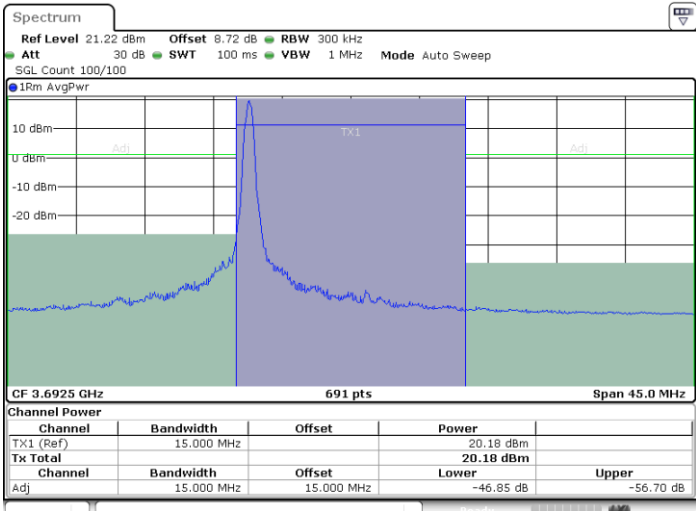


LTE Band 48 / 15MHz

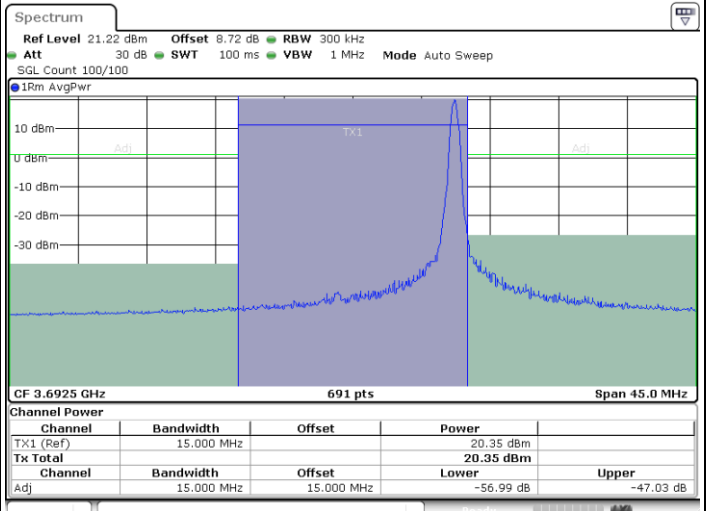
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

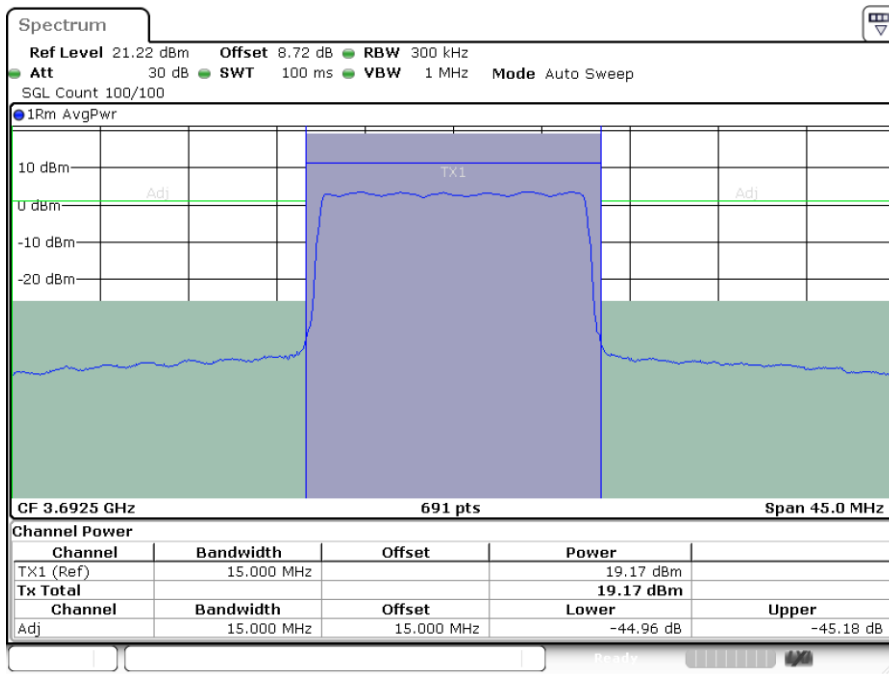


Date: 11.FEB.2023 03:00:19



Date: 11.FEB.2023 03:00:57

Highest Channel / FullRB



Date: 11.FEB.2023 03:04:06

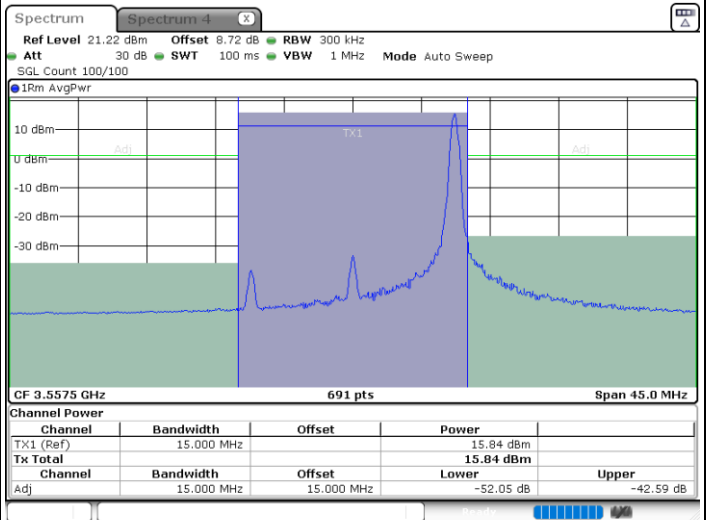
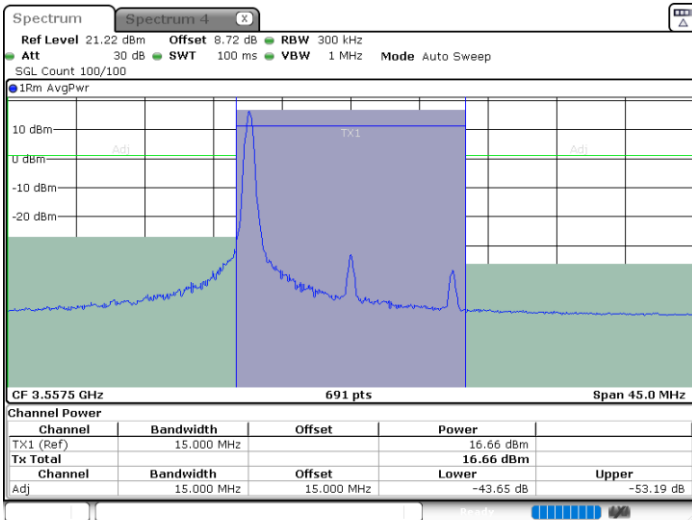


LTE Band 48 / 15MHz

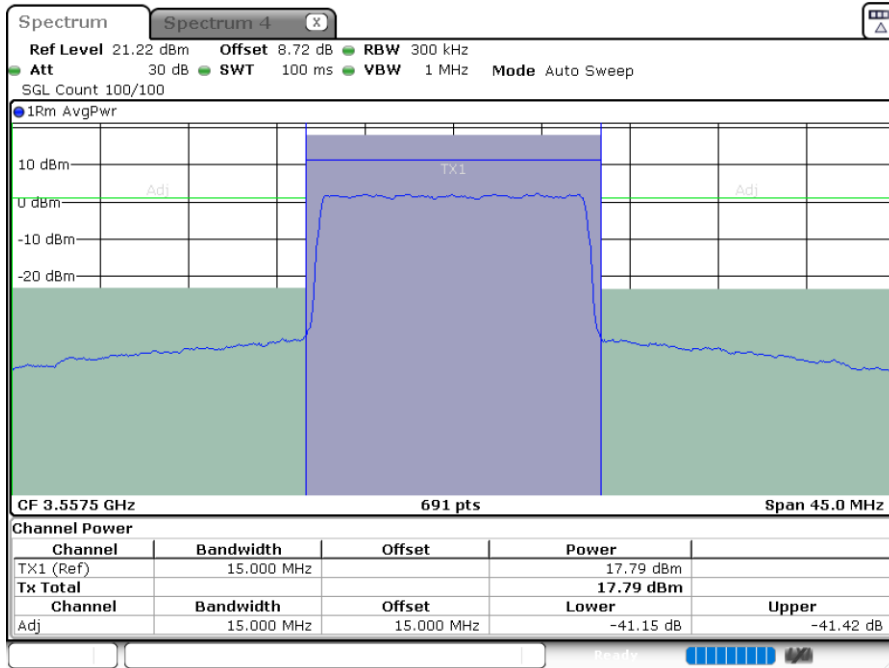
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



Lowest Channel / FullRB



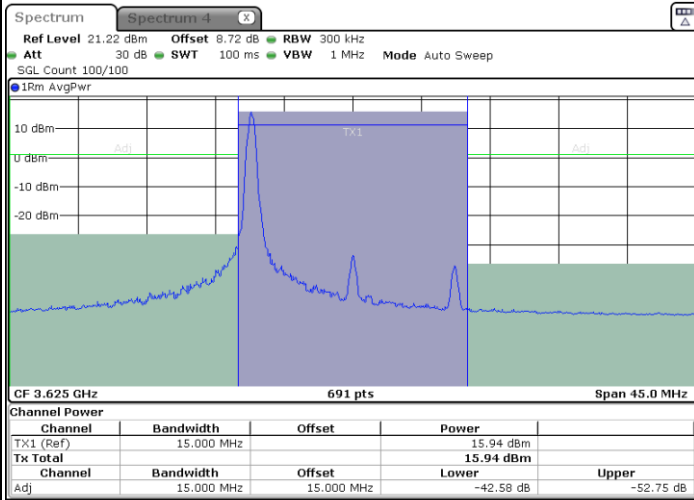


LTE Band 48 / 15MHz

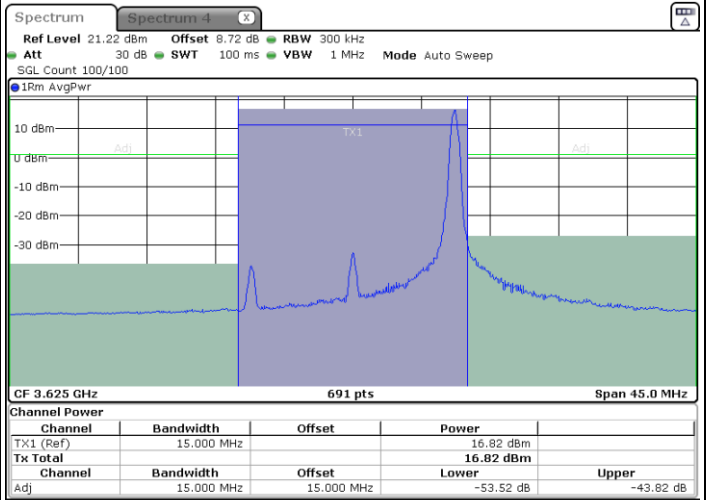
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

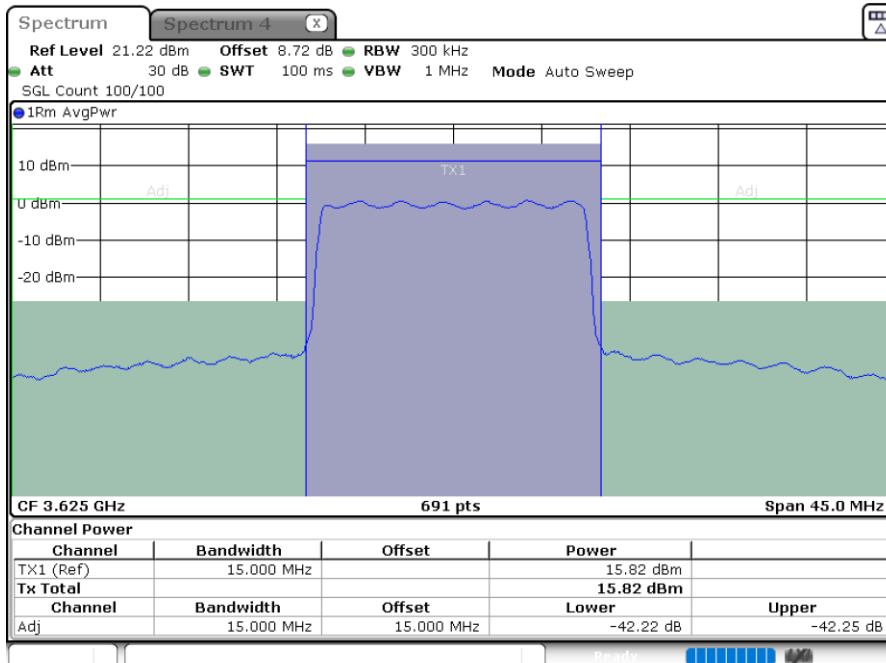


Date: 21.FEB.2023 01:36:08



Date: 21.FEB.2023 01:36:52

Middle Channel / FullRB



Date: 21.FEB.2023 01:35:23



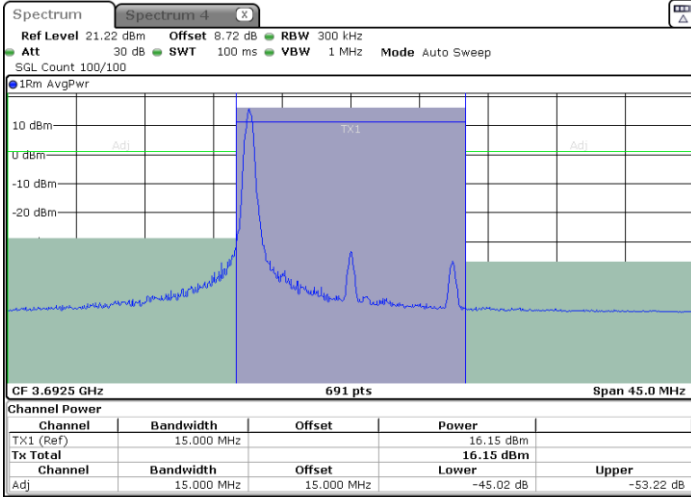


LTE Band 48 / 15MHz

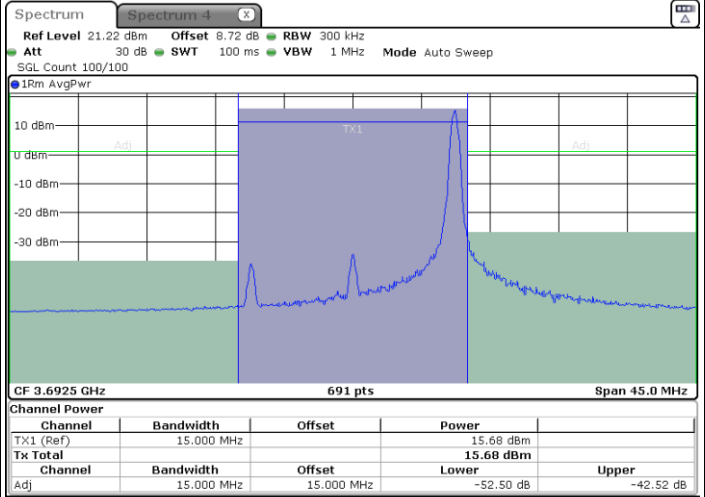
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

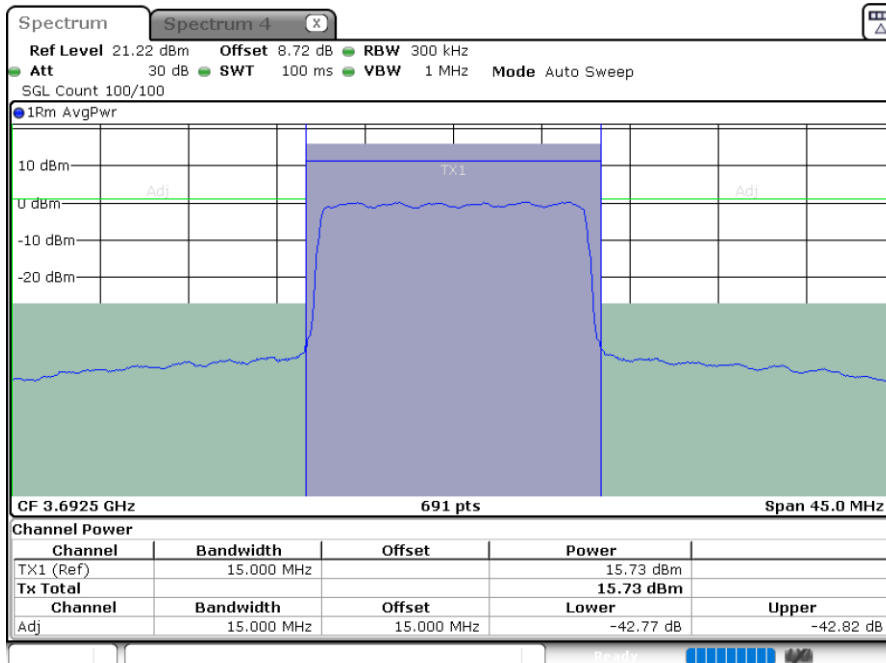


Date: 21.FEB.2023 01:39:37



Date: 21.FEB.2023 01:38:46

Highest Channel / FullRB



Date: 21.FEB.2023 01:41:21

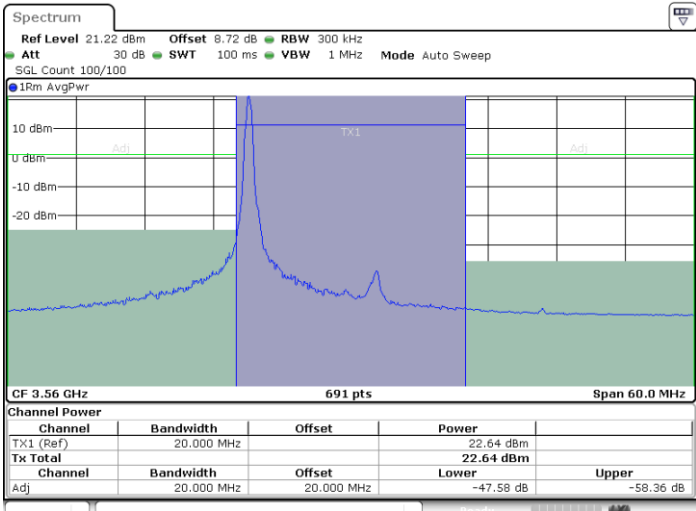


LTE Band 48 / 20MHz

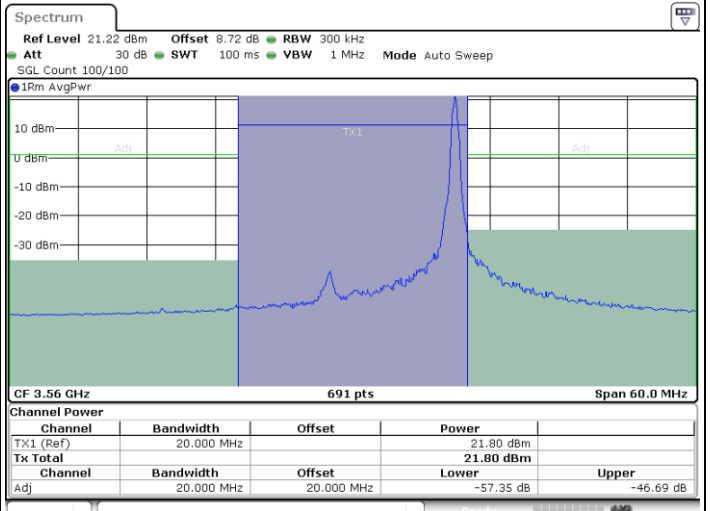
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

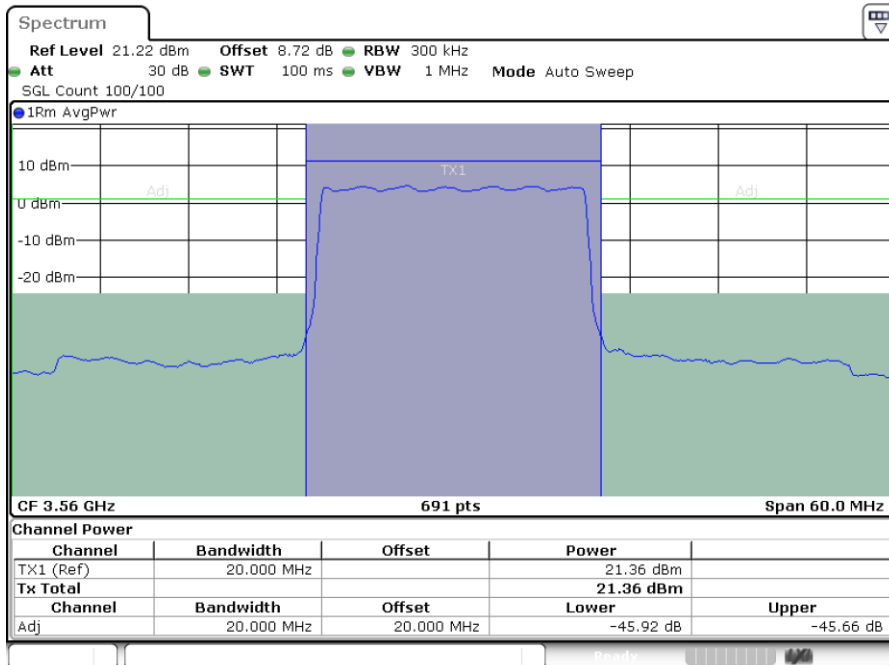


Date: 11.FEB.2023 03:04:45



Date: 11.FEB.2023 03:07:54

Lowest Channel / FullRB



Date: 11.FEB.2023 03:08:32

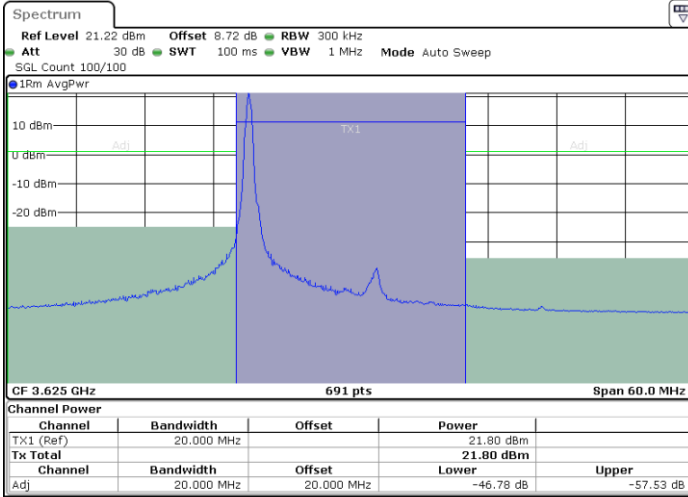


LTE Band 48 / 20MHz

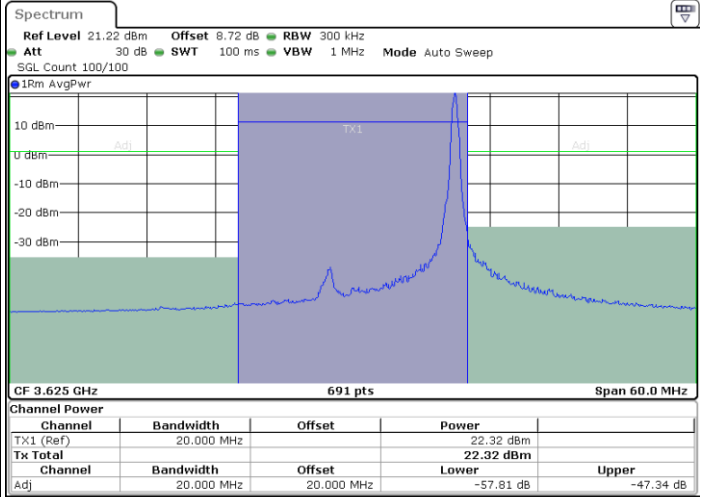
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

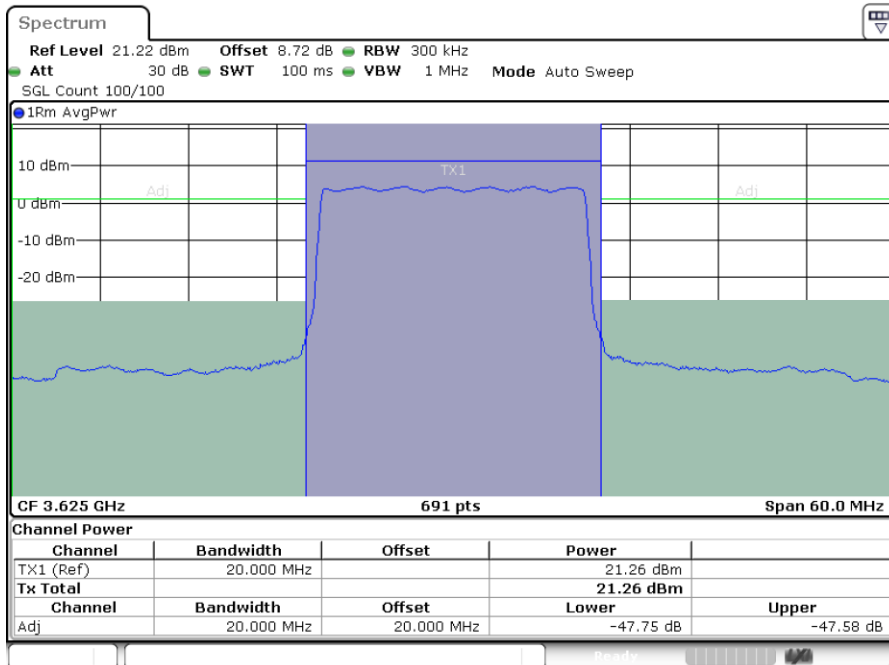


Date: 11.FEB.2023 03:10:25



Date: 11.FEB.2023 03:15:51

Middle Channel / FullRB



Date: 11.FEB.2023 03:16:28

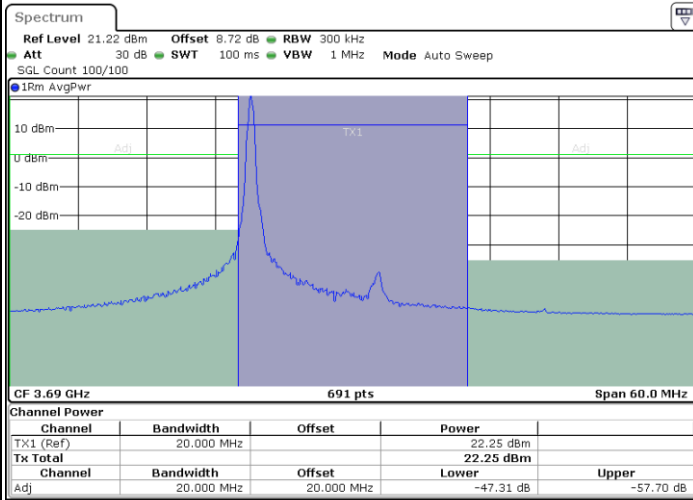


LTE Band 48 / 20MHz

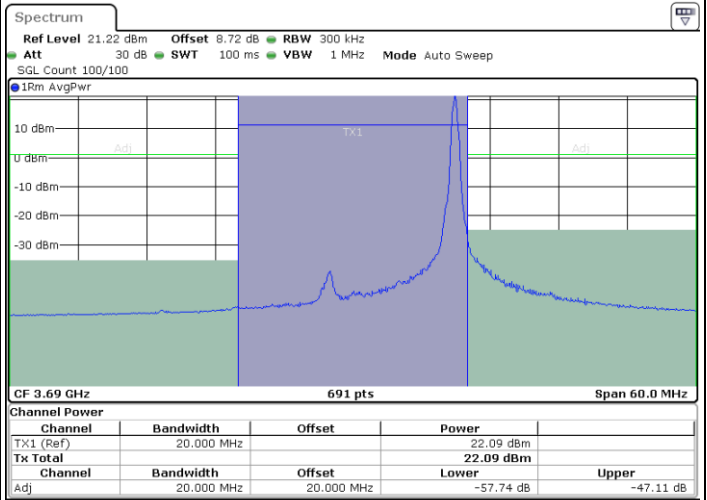
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

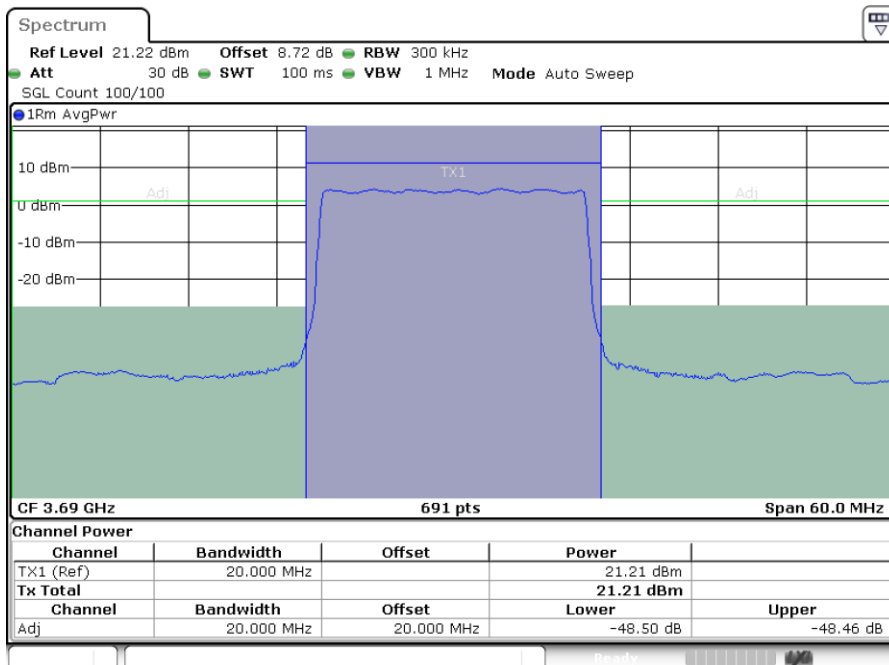


Date: 11.FEB.2023 03:18:21



Date: 11.FEB.2023 03:21:31

Highest Channel / FullRB



Date: 11.FEB.2023 03:22:09

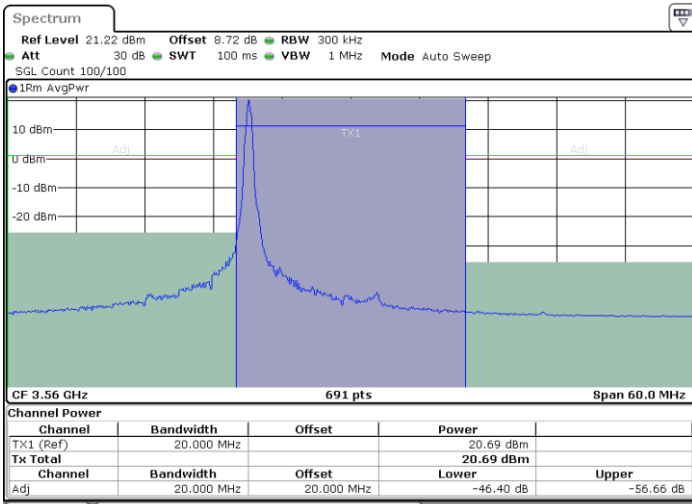


LTE Band 48 / 20MHz

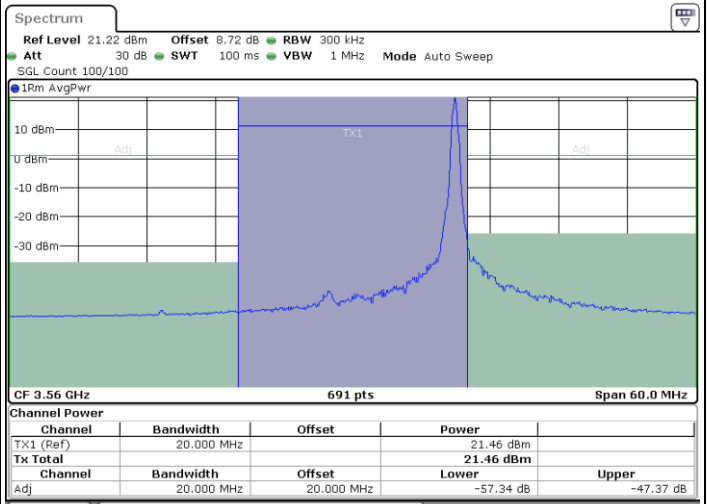
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

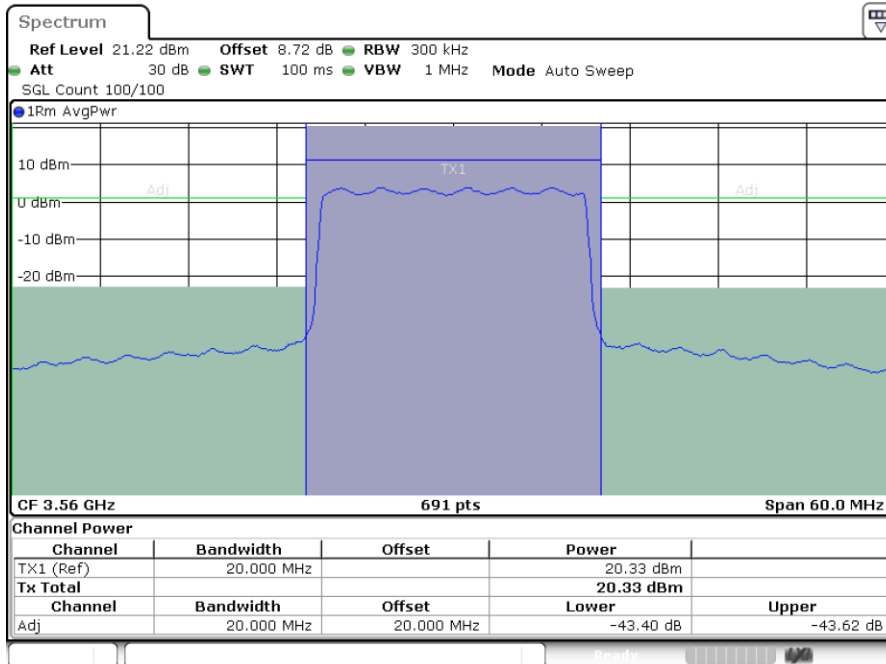


Date: 11.FEB.2023 03:05:22



Date: 11.FEB.2023 03:07:16

Lowest Channel / FullRB



Date: 11.FEB.2023 03:09:09

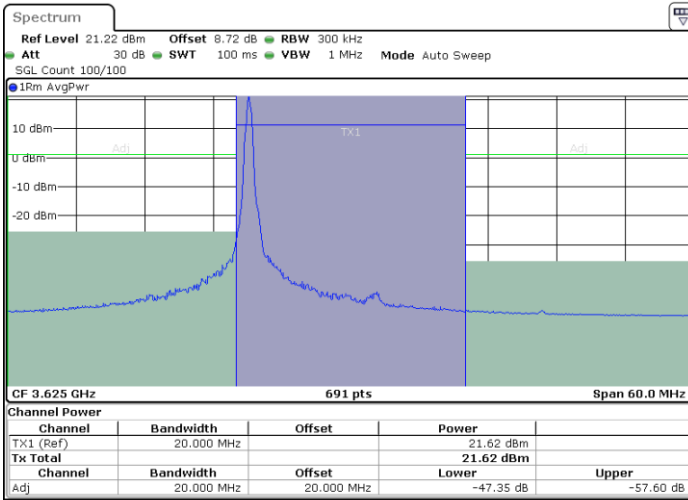


LTE Band 48 / 20MHz

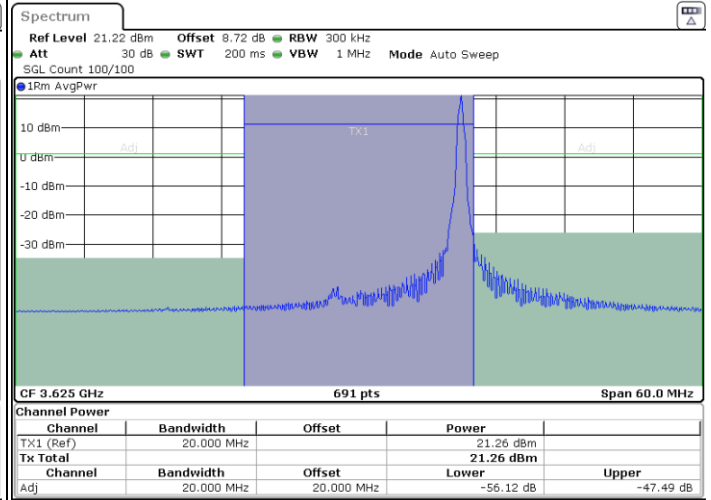
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

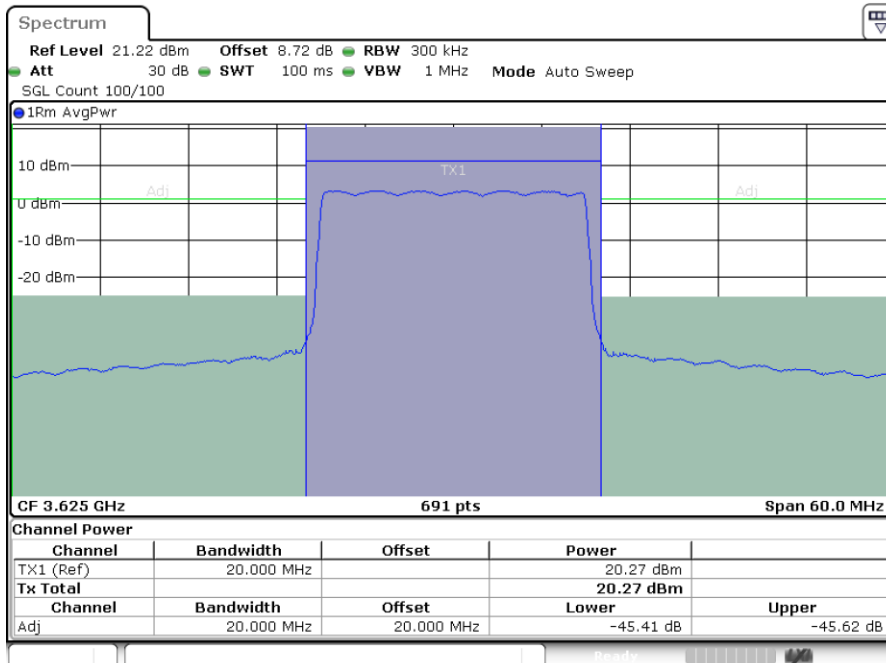


Date: 11.FEB.2023 03:11:02



Date: 5.APR.2023 10:43:26

Middle Channel / FullRB



Date: 11.FEB.2023 03:17:05

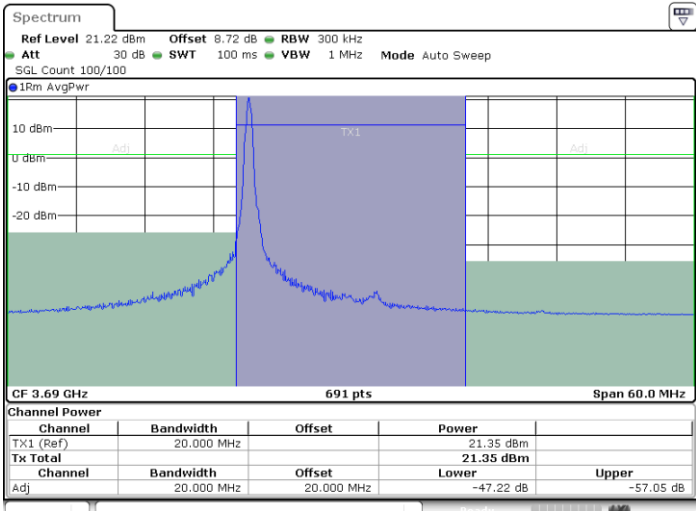


LTE Band 48 / 20MHz

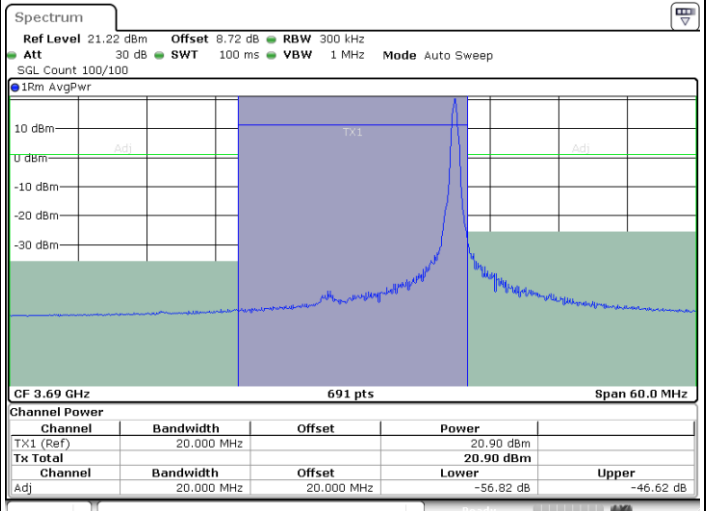
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

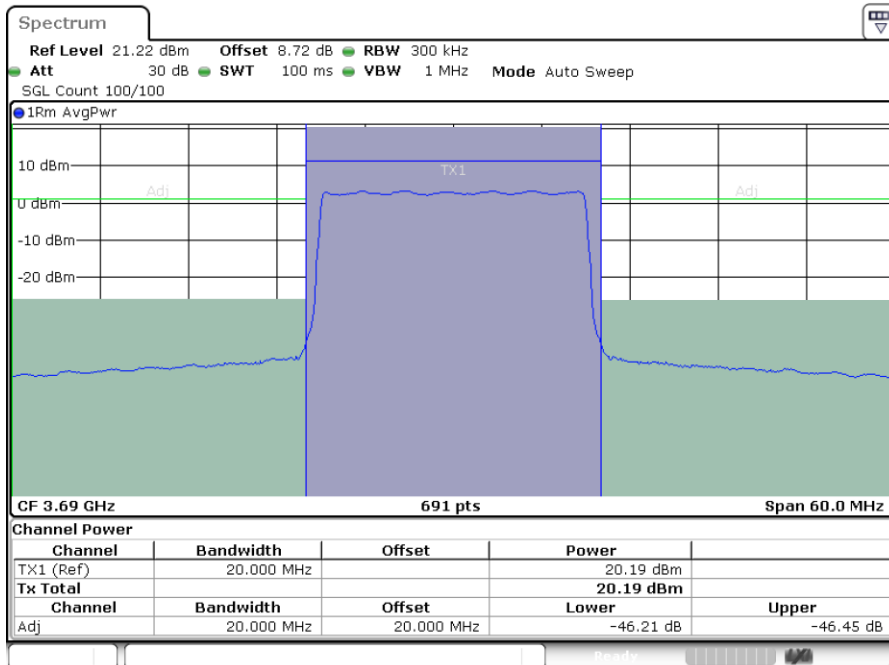


Date: 11.FEB.2023 03:18:58



Date: 11.FEB.2023 03:20:53

Highest Channel / FullRB



Date: 11.FEB.2023 03:22:47

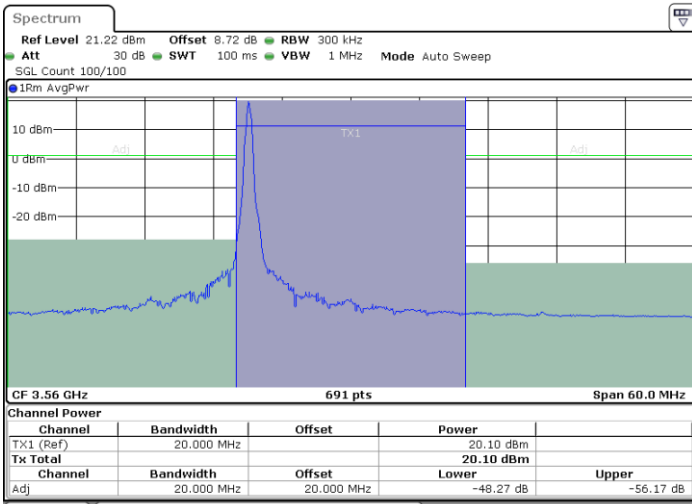


LTE Band 48 / 20MHz

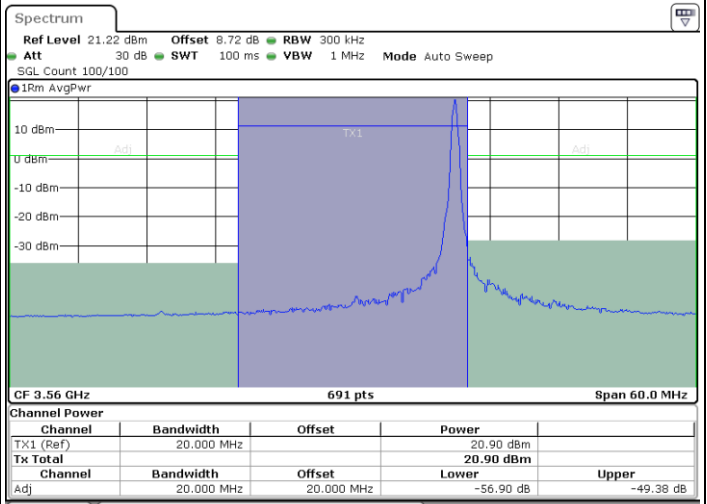
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

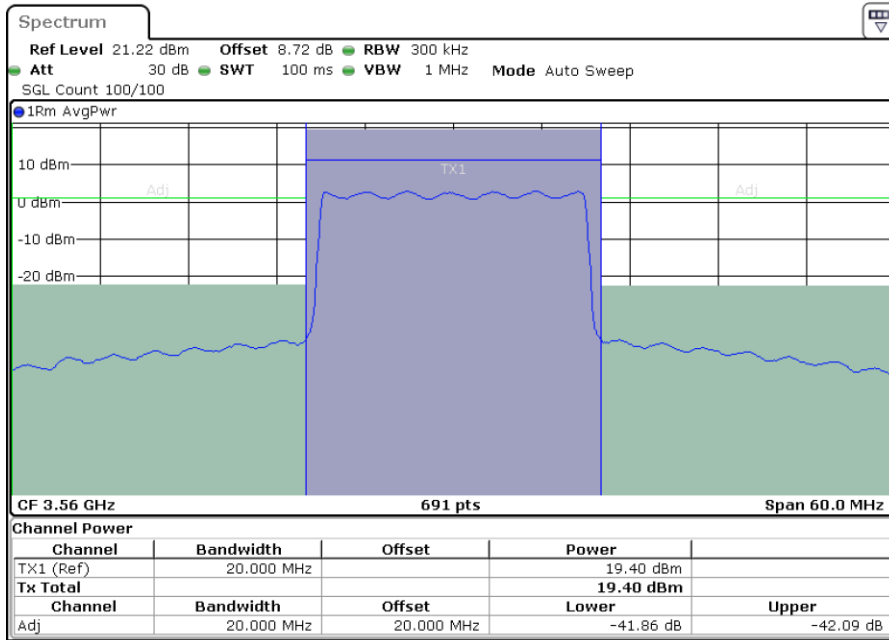


Date: 11.FEB.2023 03:06:00



Date: 11.FEB.2023 03:06:38

Lowest Channel / FullRB



Date: 11.FEB.2023 03:09:47



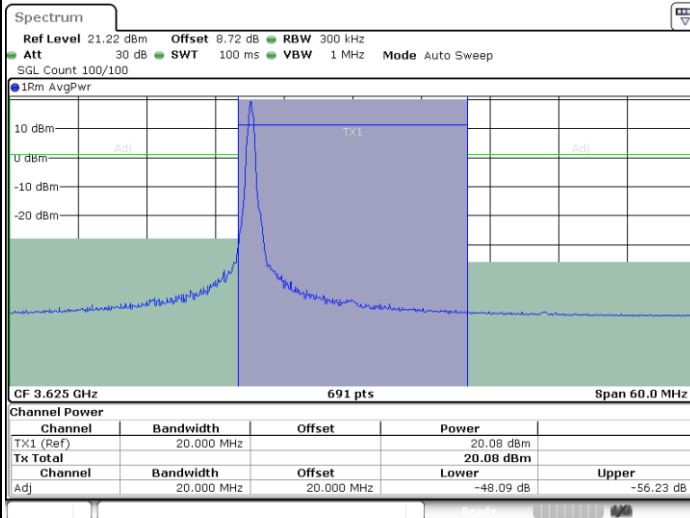


LTE Band 48 / 20MHz

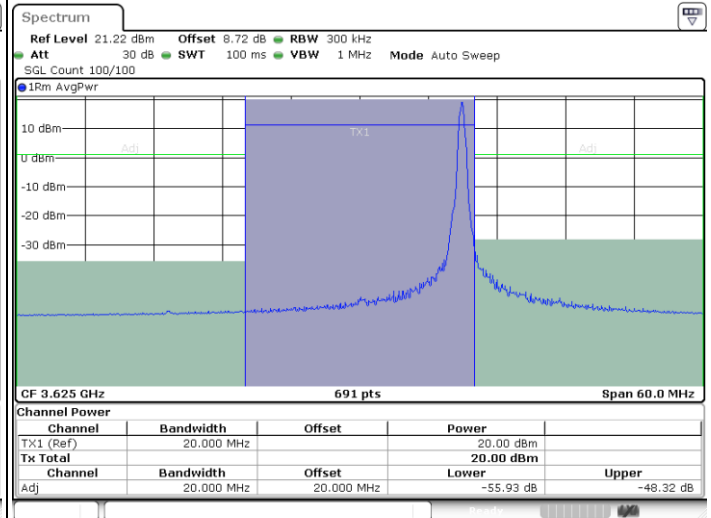
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

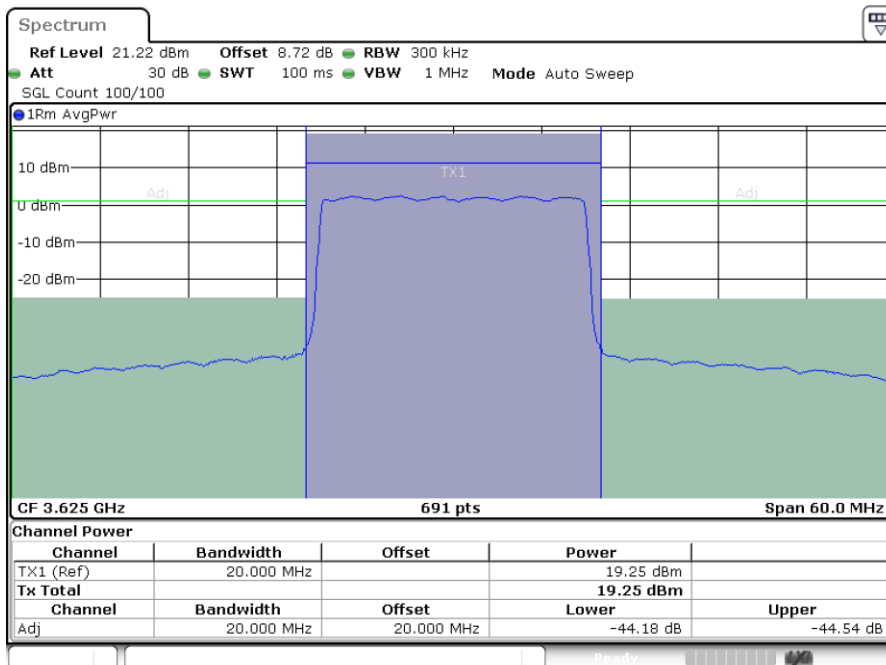


Date: 11.FEB.2023 03:11:39



Date: 11.FEB.2023 03:12:16

Middle Channel / FullRB



Date: 11.FEB.2023 03:17:43

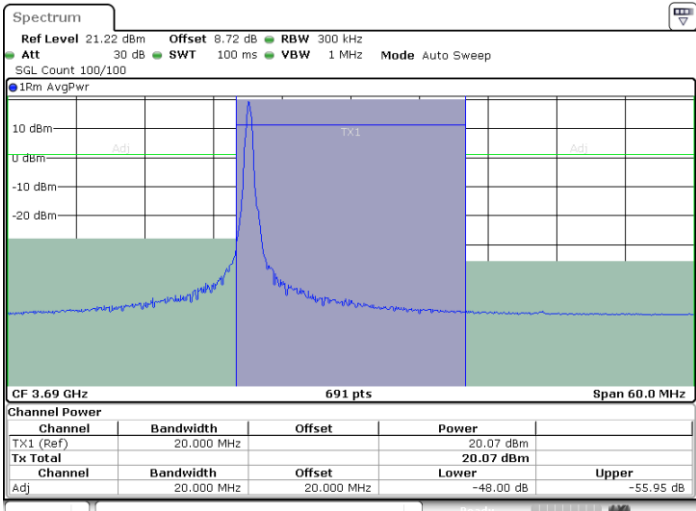


LTE Band 48 / 20MHz

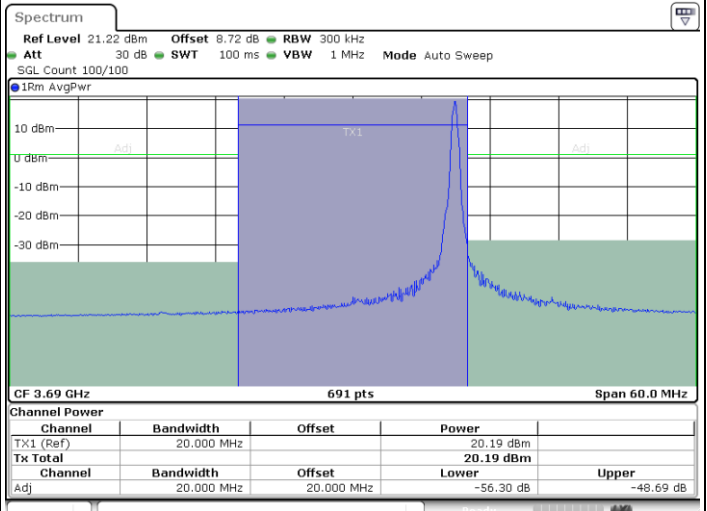
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

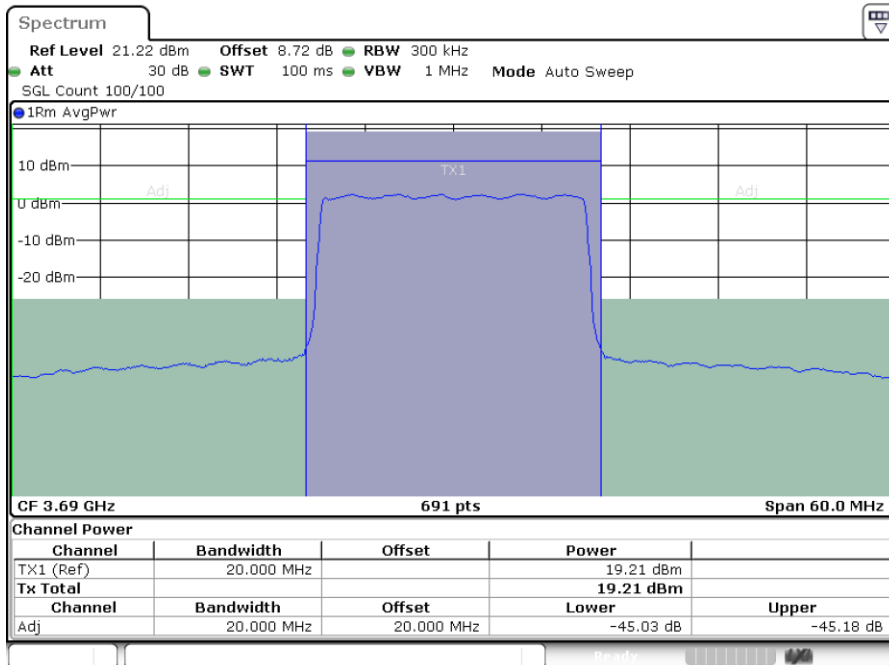


Date: 11.FEB.2023 03:19:37



Date: 11.FEB.2023 03:20:15

Highest Channel / FullRB



Date: 11.FEB.2023 03:23:24

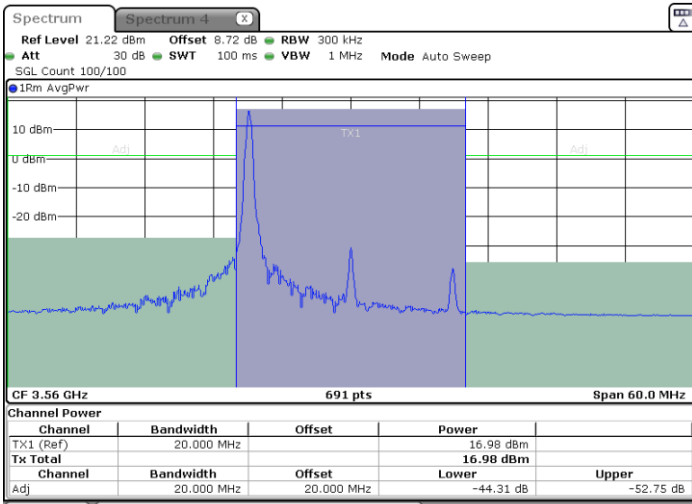


LTE Band 48 / 20MHz

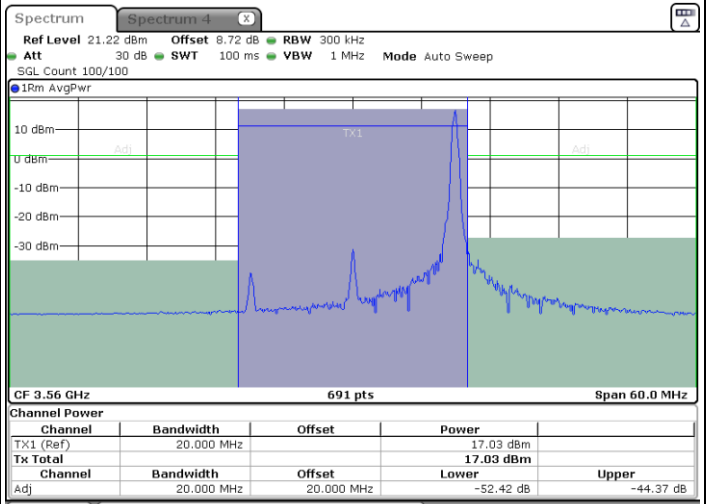
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

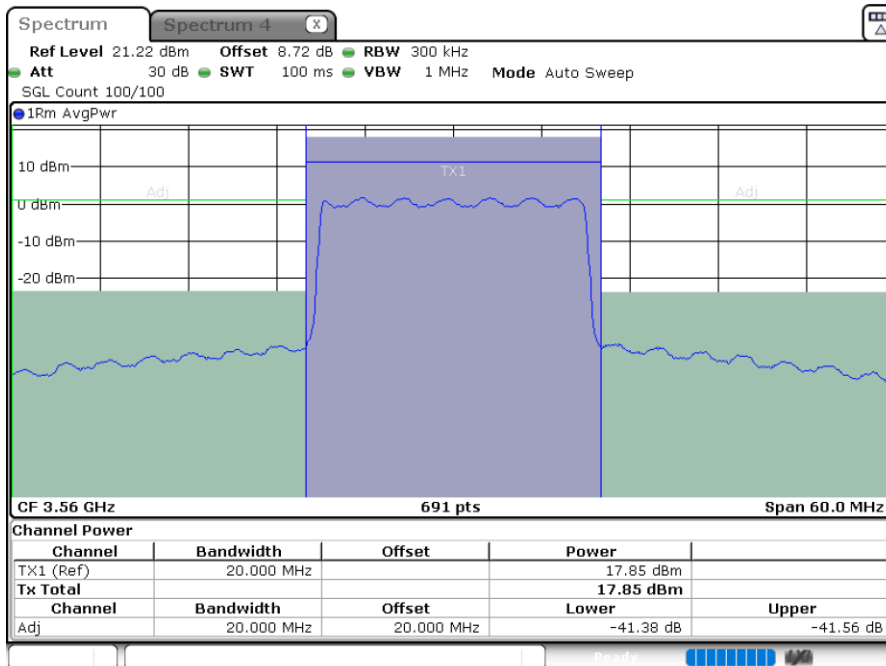


Date: 21.FEB.2023 01:43:31



Date: 21.FEB.2023 01:45:11

Lowest Channel / FullRB



Date: 21.FEB.2023 01:42:41

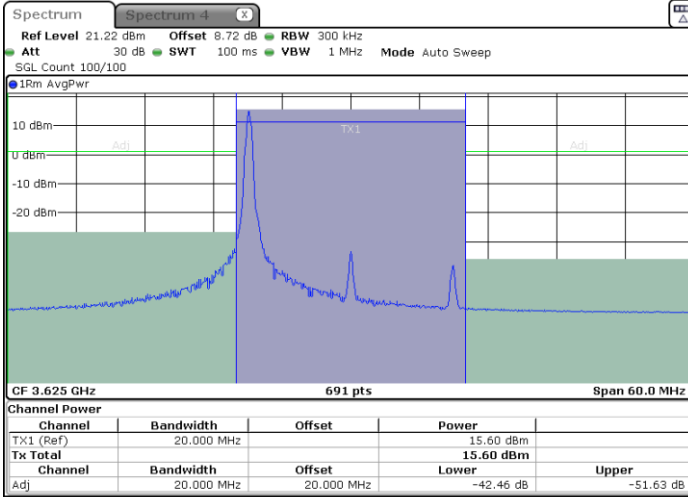


LTE Band 48 / 20MHz

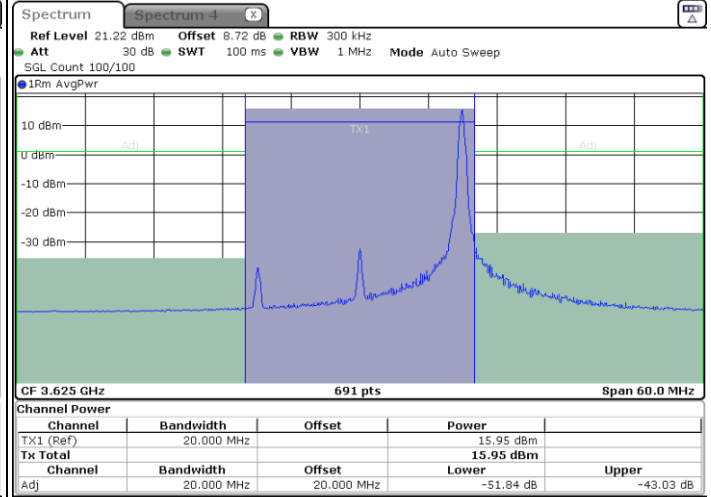
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

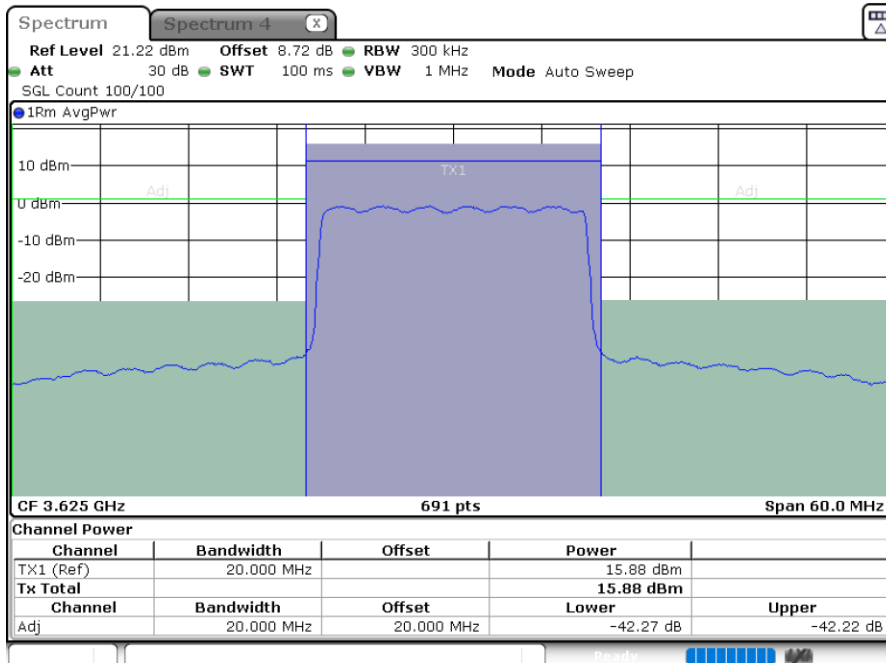


Date: 21.FEB.2023 01:47:27



Date: 21.FEB.2023 01:46:41

Middle Channel / FullRB



Date: 21.FEB.2023 01:48:12

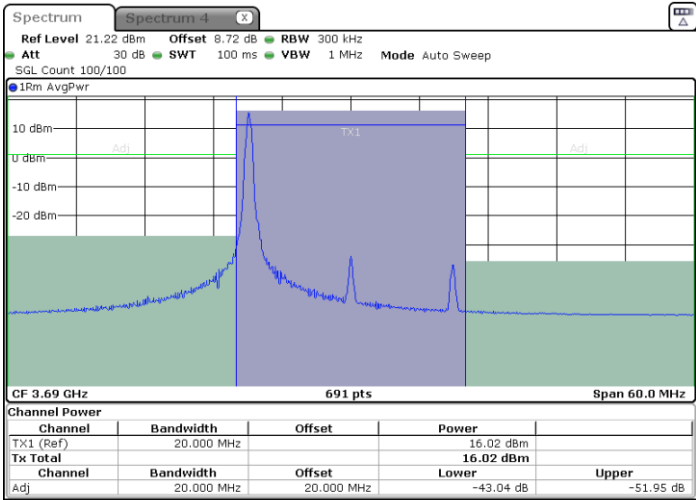


LTE Band 48 / 20MHz

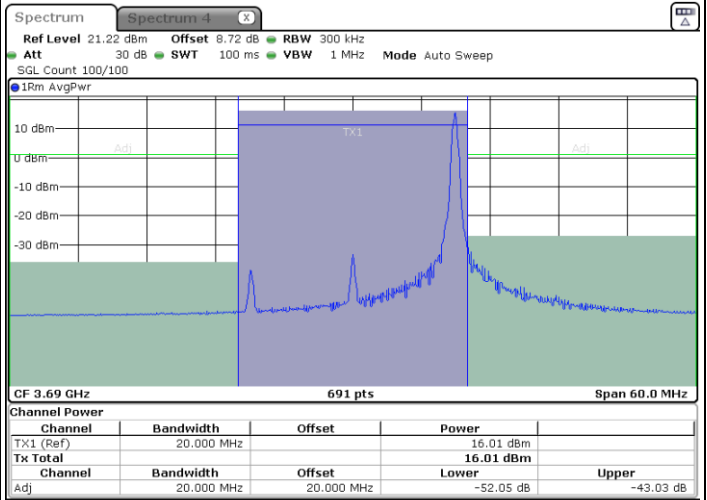
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

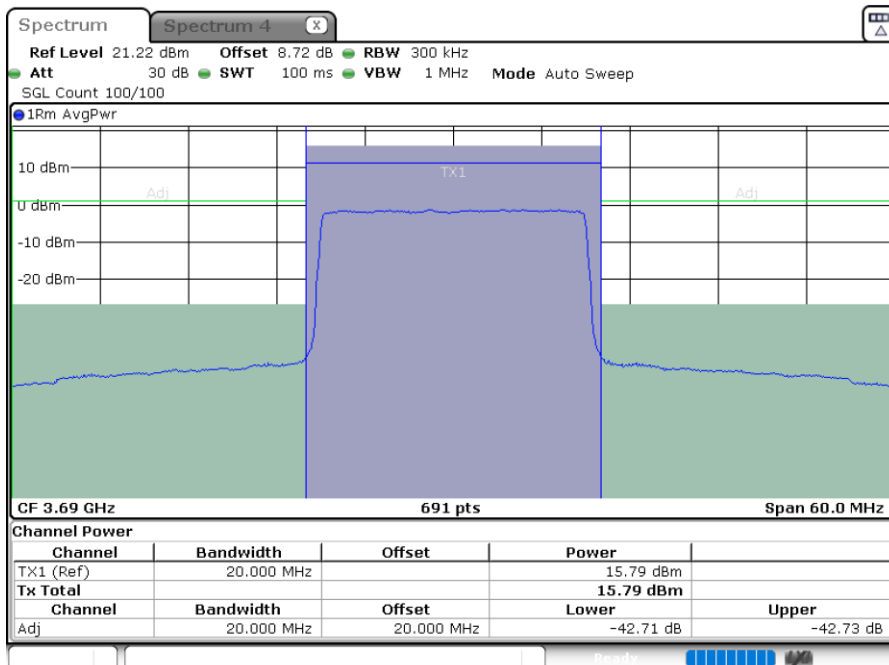


Date: 21.FEB.2023 01:51:01



Date: 21.FEB.2023 01:51:50

Highest Channel / FullRB



Date: 21.FEB.2023 01:49:54

**Frequency Stability**

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0012	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.41V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

## LTE Band 48C

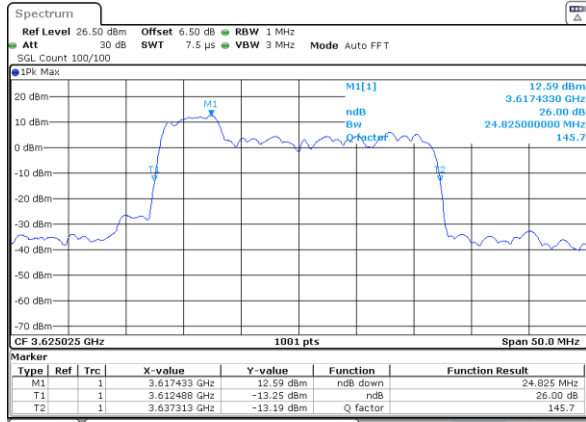
### 26dB Bandwidth

Mode	LTE Band 48C : 26dB BW(MHz)	
QPSK	QPSK	16QAM
BW	5MHz+20MHz	5MHz+20MHz
Middle CH	24.83	24.68
QPSK	QPSK	16QAM
BW	10MHz+20MHz	10MHz+20MHz
Middle CH	29.79	29.85
QPSK	QPSK	16QAM
BW	15MHz+20MHz	15MHz+20MHz
Middle CH	34.69	34.69
QPSK	QPSK	16QAM
BW	20MHz+5MHz	20MHz+5MHz
Middle CH	24.93	24.88
QPSK	QPSK	16QAM
BW	20MHz+10MHz	20MHz+10MHz
Middle CH	30.03	30.99
QPSK	QPSK	16QAM
BW	20MHz+15MHz	20MHz+15MHz
Middle CH	34.83	34.76
QPSK	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.80	39.72



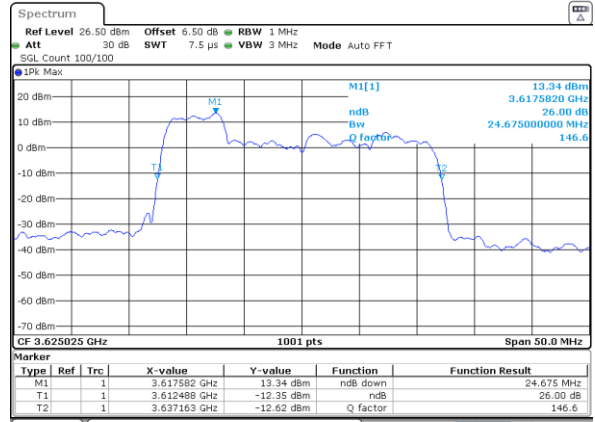
LTE Band 48C

Middle Channel / 5MHz+20MHz/QPSK



Date: 24.FEB.2023 02:57:18

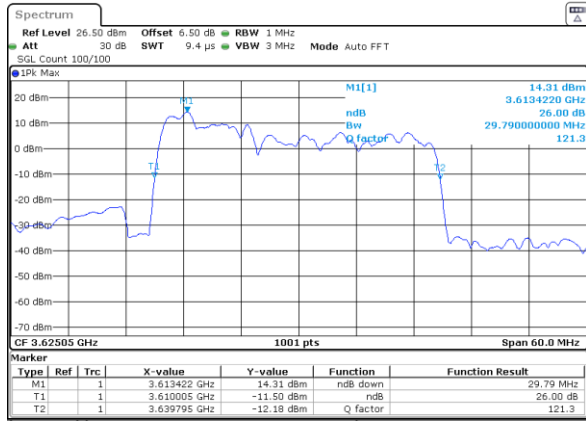
Middle Channel / 5MHz+20MHz/16QAM



Date: 24.FEB.2023 02:58:46

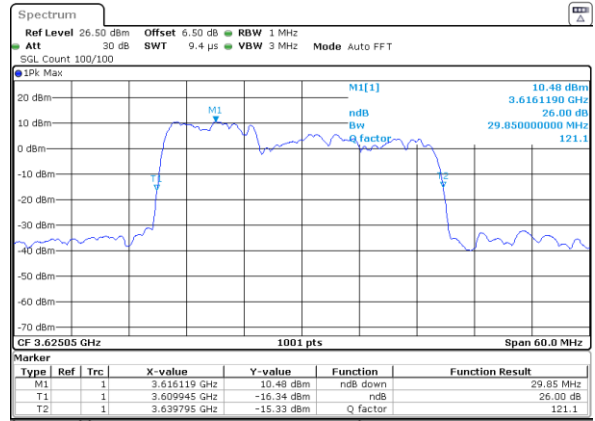
LTE Band 48C

Middle Channel / 10MHz+20MHz/QPSK



Date: 24.FEB.2023 02:59:22

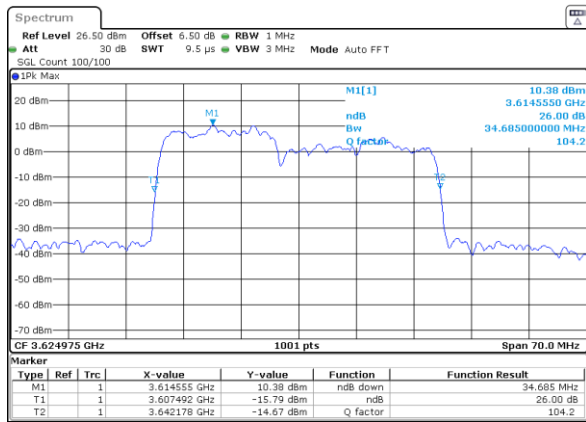
Middle Channel / 10MHz+20MHz/16QAM



Date: 24.FEB.2023 03:00:49

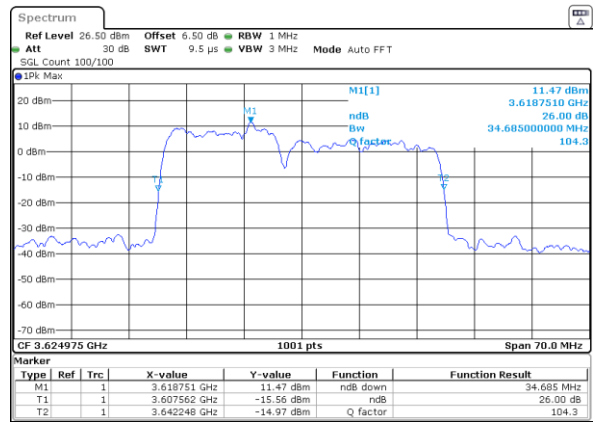
LTE Band 48C

Middle Channel / 15MHz+20MHz/QPSK



Date: 24.FEB.2023 03:01:37

Middle Channel / 15MHz+20MHz/16QAM



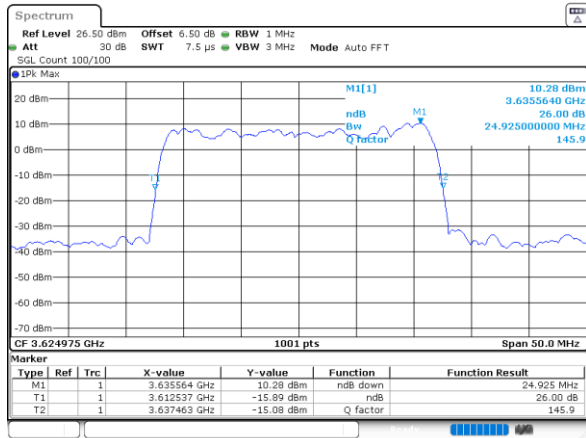
Date: 24.FEB.2023 03:03:05





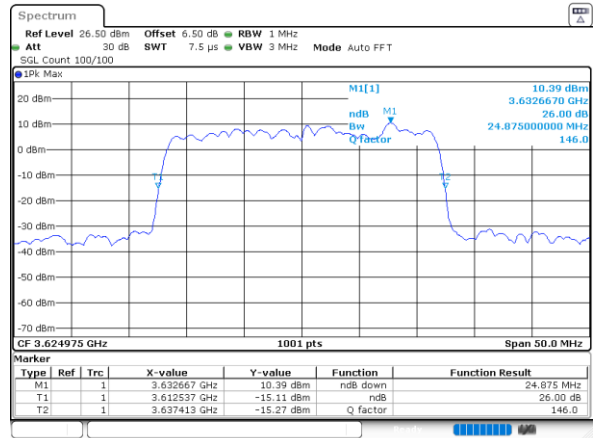
LTE Band 48C

Middle Channel / 20MHz+5MHz/QPSK



Date: 24.FEB.2023 03:03:57

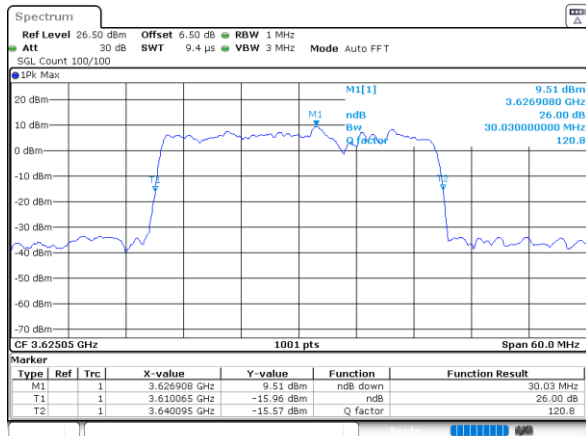
Middle Channel / 20MHz+5MHz/16QAM



Date: 24.FEB.2023 03:05:25

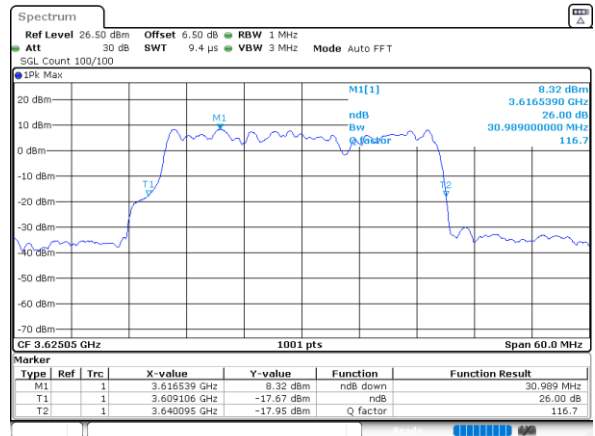
LTE Band 48C

Middle Channel / 20MHz+10MHz/QPSK



Date: 24.FEB.2023 03:06:02

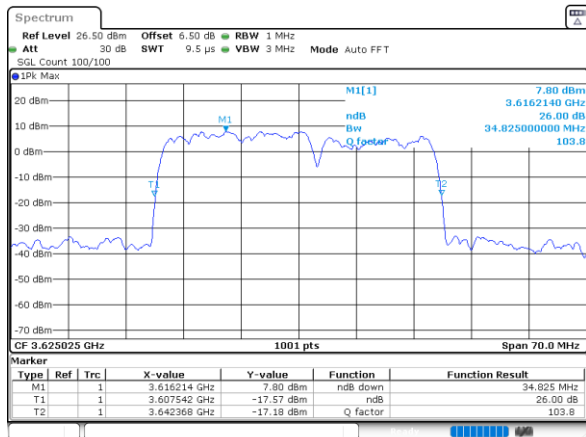
Middle Channel / 20MHz+10MHz/16QAM



Date: 24.FEB.2023 03:07:29

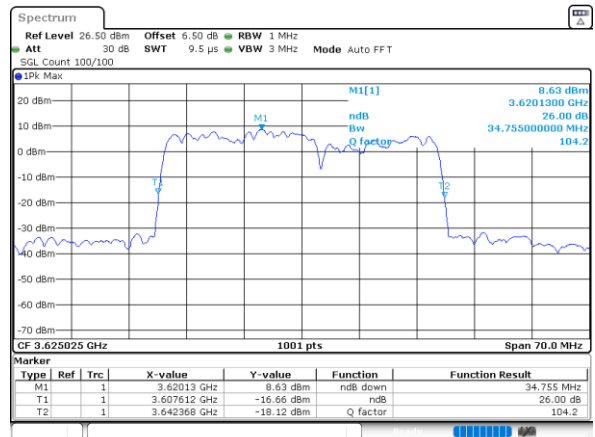
LTE Band 48C

Middle Channel / 20MHz+15MHz/QPSK



Date: 24.FEB.2023 03:08:06

Middle Channel / 20MHz+15MHz/16QAM

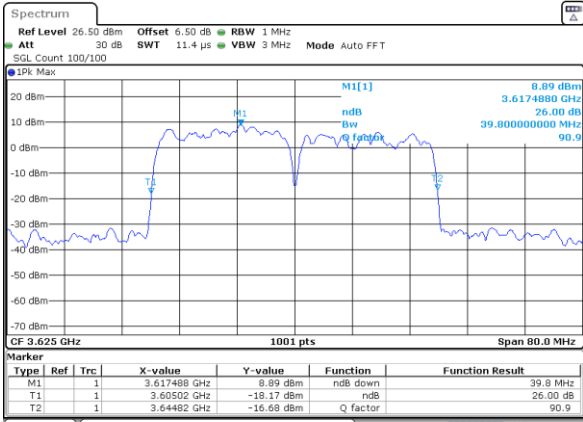


Date: 24.FEB.2023 03:09:33



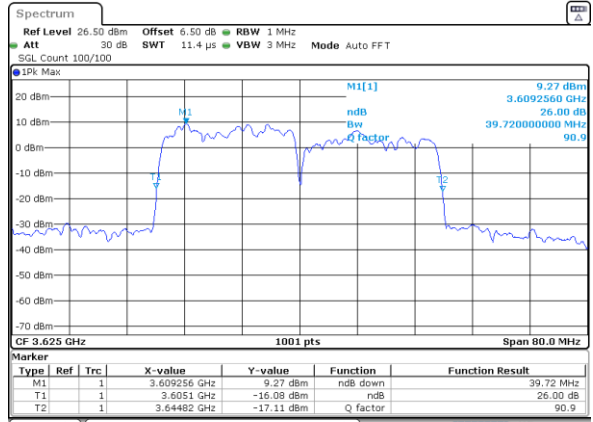
LTE Band 48C

Middle Channel / 20MHz+20MHz/QPSK



Date: 24.FEB.2023 03:10:09

Middle Channel / 20MHz+20MHz/16QAM

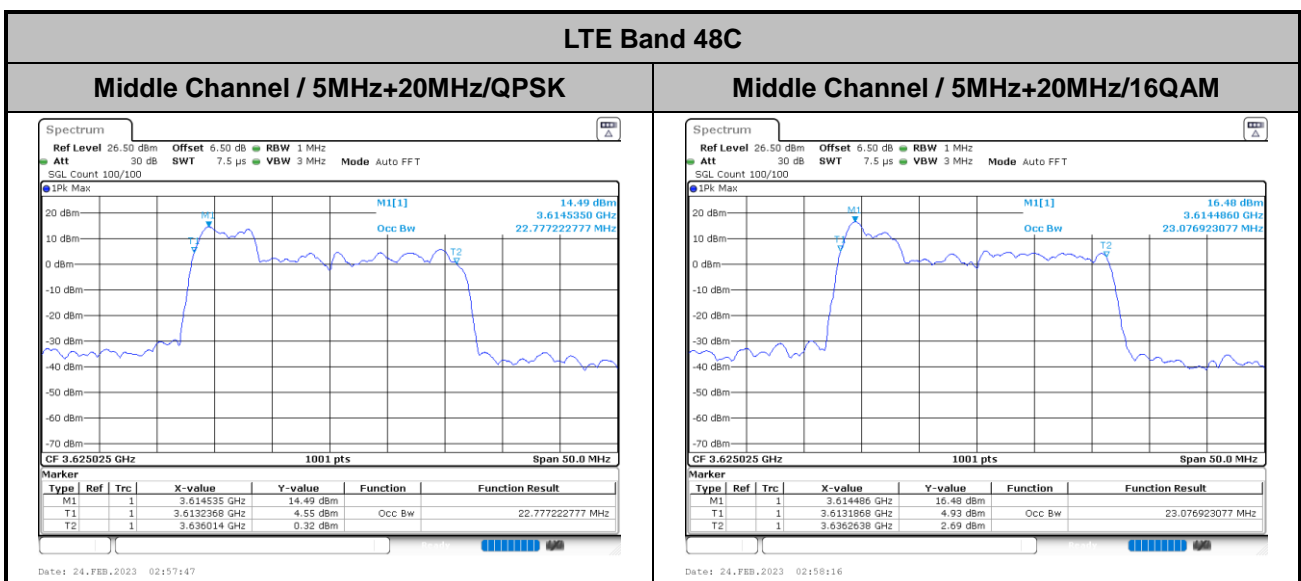


Date: 24.FEB.2023 03:11:37



# Occupied Bandwidth

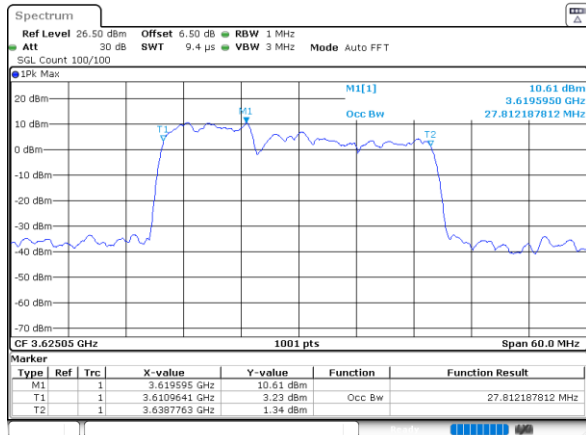
Mode	LTE Band 48C : OBW(MHz)	
QPSK	QPSK	16QAM
BW	5MHz+20MHz	5MHz+20MHz
Middle CH	22.78	23.08
QPSK	QPSK	16QAM
BW	10MHz+20MHz	10MHz+20MHz
Middle CH	27.81	27.75
QPSK	QPSK	16QAM
BW	15MHz+20MHz	15MHz+20MHz
Middle CH	32.94	32.66
QPSK	QPSK	16QAM
BW	20MHz+5MHz	20MHz+5MHz
Middle CH	23.23	23.18
QPSK	QPSK	16QAM
BW	20MHz+10MHz	20MHz+10MHz
Middle CH	27.93	28.17
QPSK	QPSK	16QAM
BW	20MHz+15MHz	20MHz+15MHz
Middle CH	32.73	32.59
QPSK	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.56	37.24





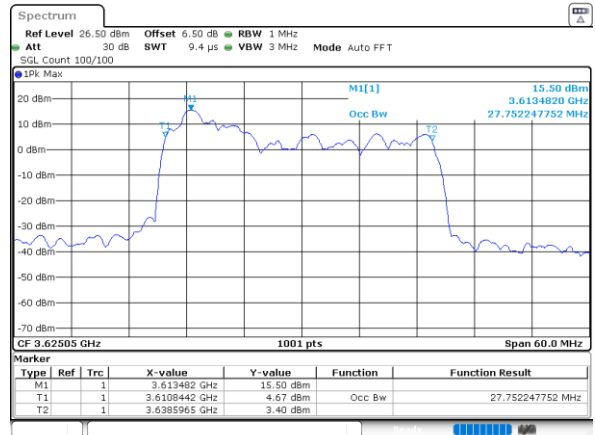
LTE Band 48C

Middle Channel / 10MHz+20MHz/QPSK



Date: 24.FEB.2023 02:59:51

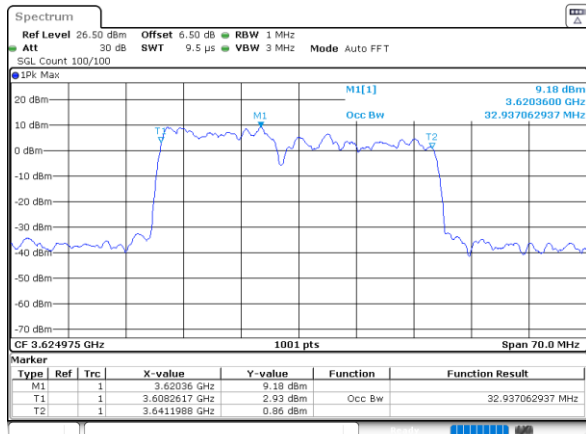
Middle Channel / 10MHz+20MHz/16QAM



Date: 24.FEB.2023 03:00:20

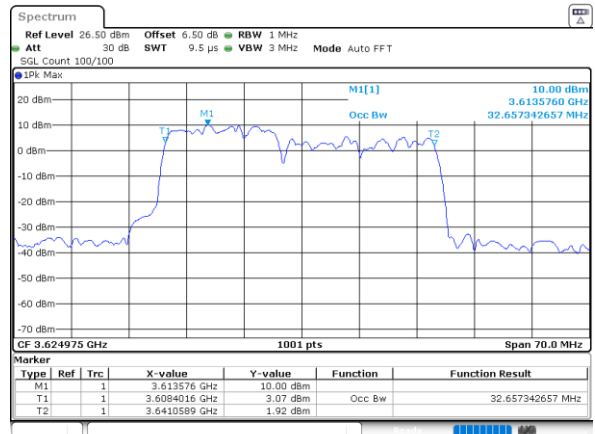
LTE Band 48C

Middle Channel / 15MHz+20MHz/QPSK



Date: 24.FEB.2023 03:02:06

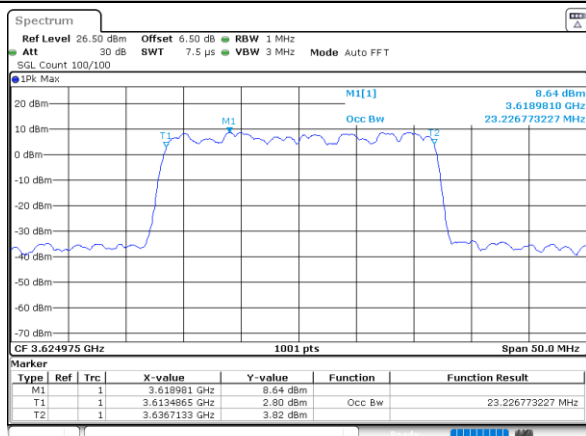
Middle Channel / 15MHz+20MHz/16QAM



Date: 24.FEB.2023 03:02:36

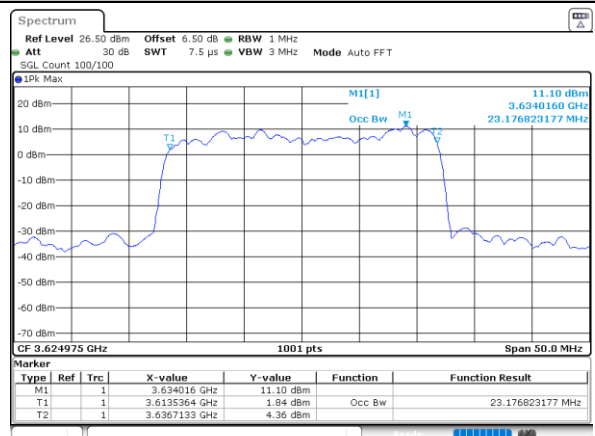
LTE Band 48C

Middle Channel / 20MHz+5MHz/QPSK



Date: 24.FEB.2023 03:04:27

Middle Channel / 20MHz+5MHz/16QAM

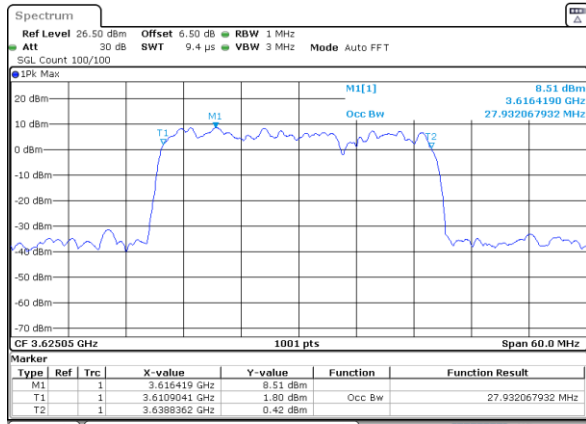


Date: 24.FEB.2023 03:04:56



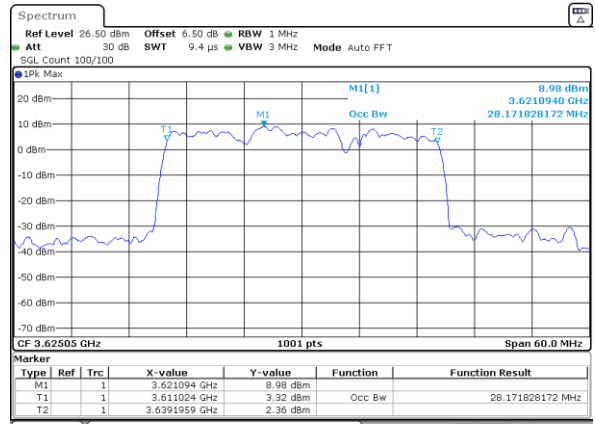
LTE Band 48C

Middle Channel / 20MHz+10MHz/QPSK



Date: 24.FEB.2023 03:06:31

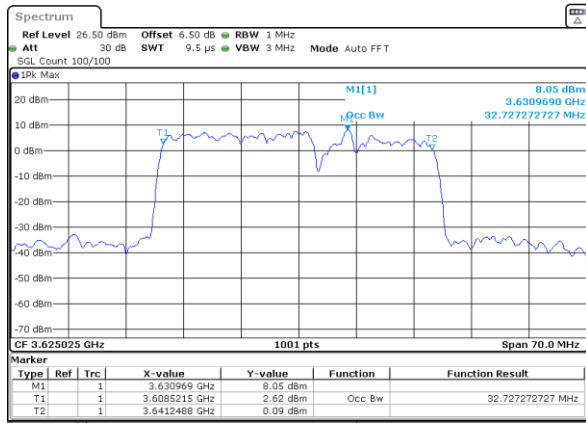
Middle Channel / 20MHz+10MHz/16QAM



Date: 24.FEB.2023 03:07:00

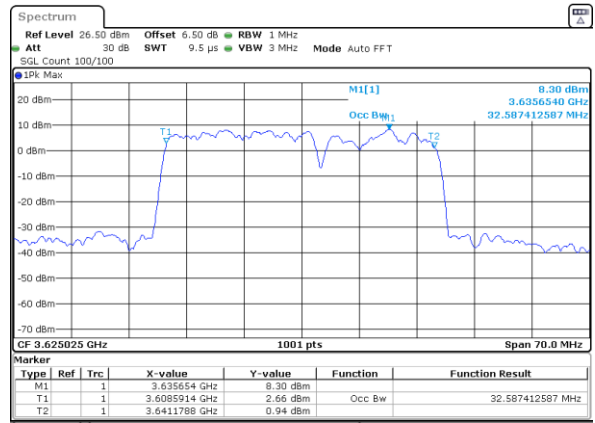
LTE Band 48C

Middle Channel / 20MHz+15MHz/QPSK



Date: 24.FEB.2023 03:08:35

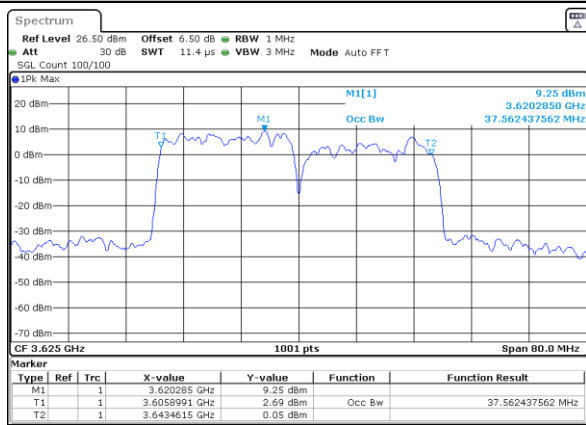
Middle Channel / 20MHz+15MHz/16QAM



Date: 24.FEB.2023 03:09:04

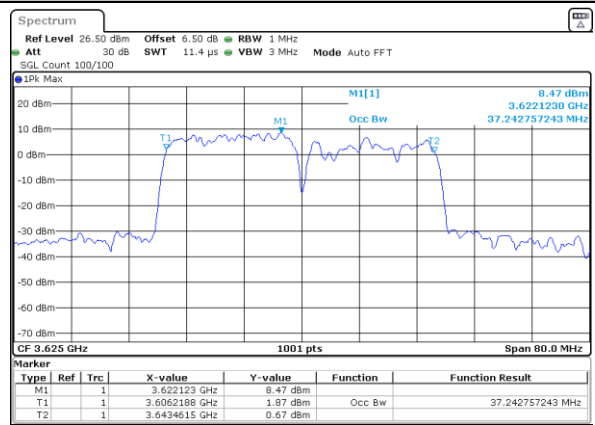
LTE Band 48C

Middle Channel / 20MHz+20MHz/QPSK



Date: 24.FEB.2023 03:10:39

Middle Channel / 20MHz+20MHz/16QAM



Date: 24.FEB.2023 03:11:09

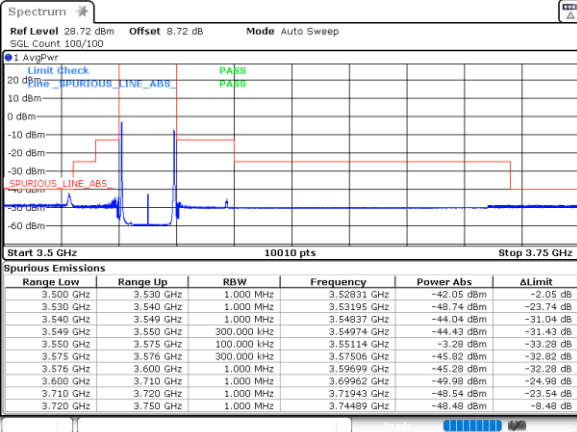


# Conducted Band Edge

## LTE Band 48C / 5MHz+20MHz

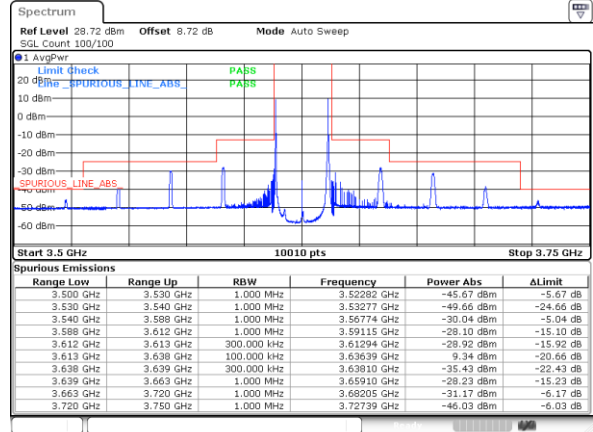
### QPSK

#### Lowest Band Edge / 1RB0 and 1RB9



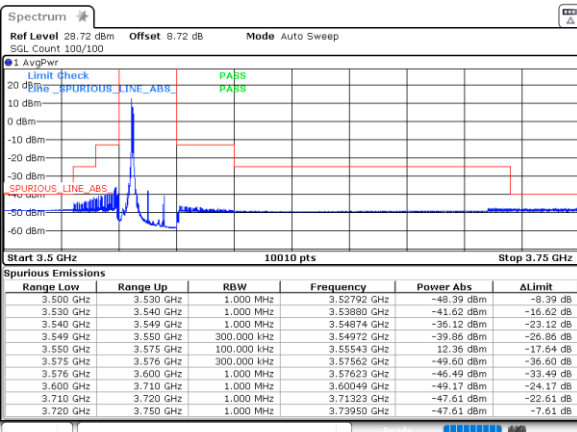
Date: 23.FEB.2023 22:02:21

#### Middle Band Edge / 1RB0 and 1RB9



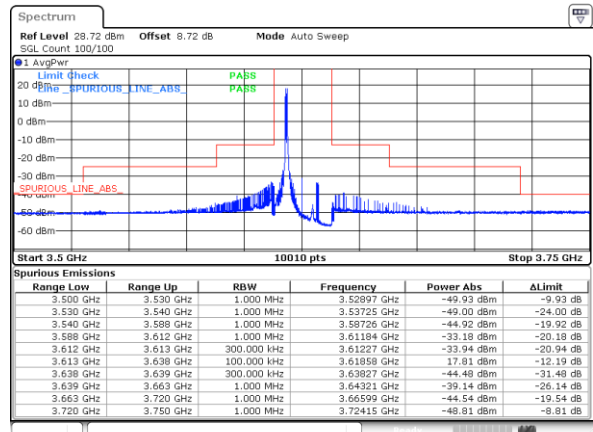
Date: 11.FEB.2023 21:30:41

#### Lowest Band Edge / 1RB24 and 1RB0



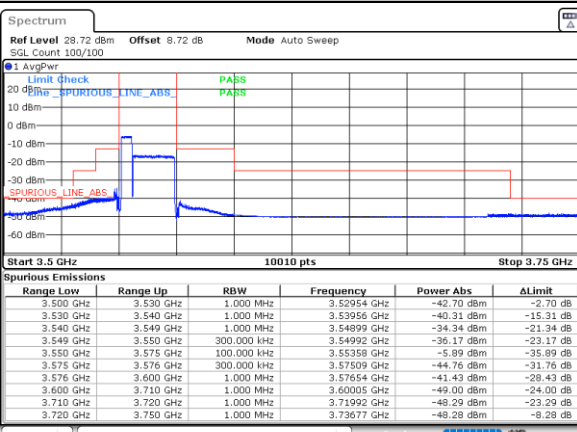
Date: 20.FEB.2023 14:26:23

#### Middle Band Edge / 1RB24 and 1RB0



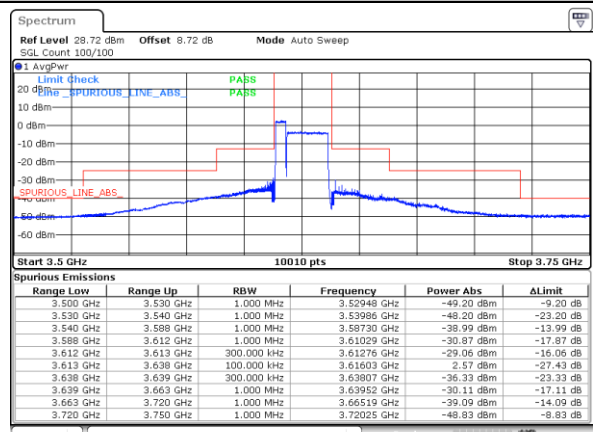
Date: 11.FEB.2023 21:32:52

#### Lowest Band Edge / Full RB



Date: 17.FEB.2023 01:13:11

#### Middle Band Edge / Full RB



Date: 11.FEB.2023 21:19:48

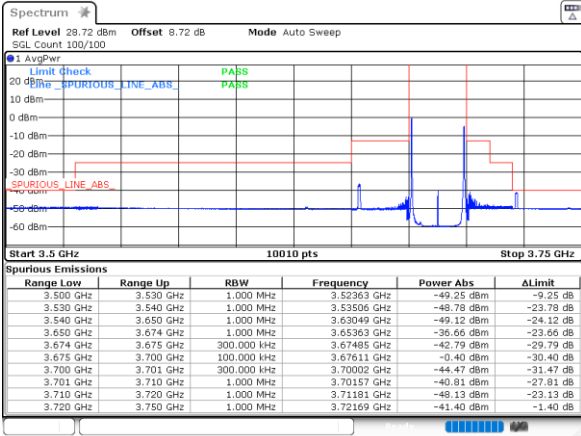


LTE Band 48C / 5MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB9

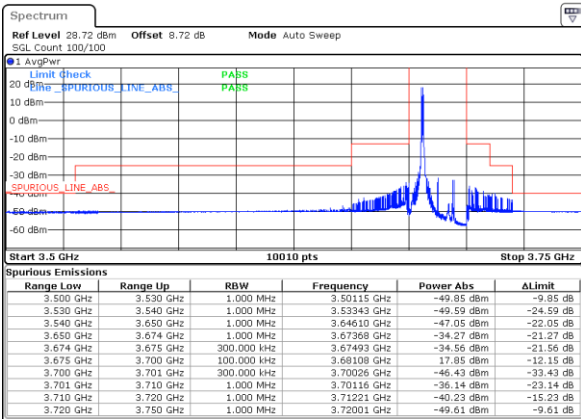
N/A



Date: 17, FEB, 2023 05:10:13

Highest Band Edge / 1RB24 and 1RB0

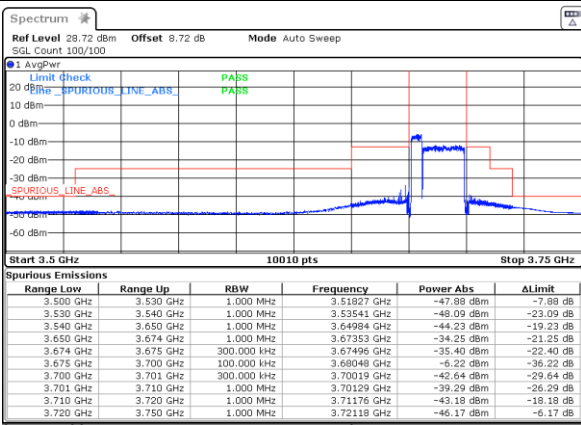
N/A



Date: 11, FEB, 2023 21:56:55

Highest Band Edge / Full RB

N/A



Date: 23, FEB, 2023 22:50:42

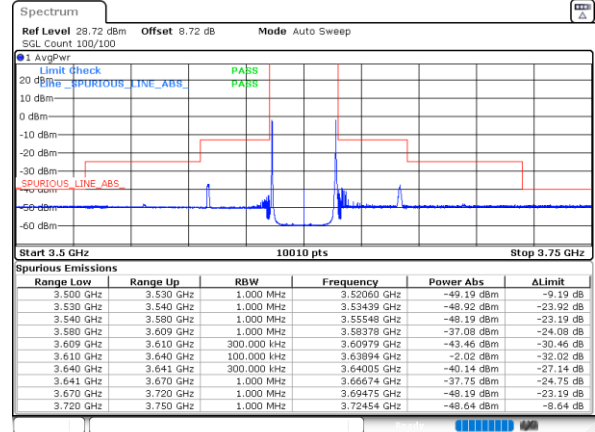
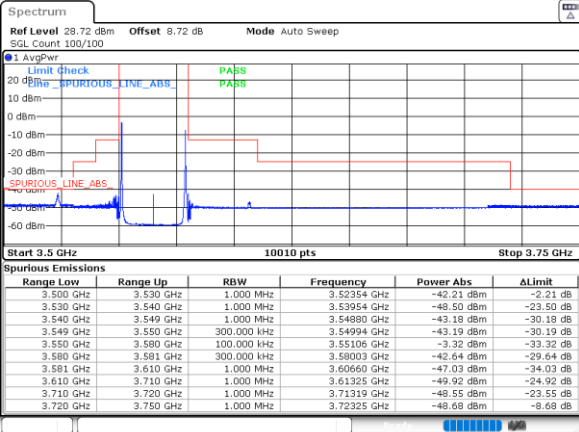


LTE Band 48C / 10MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

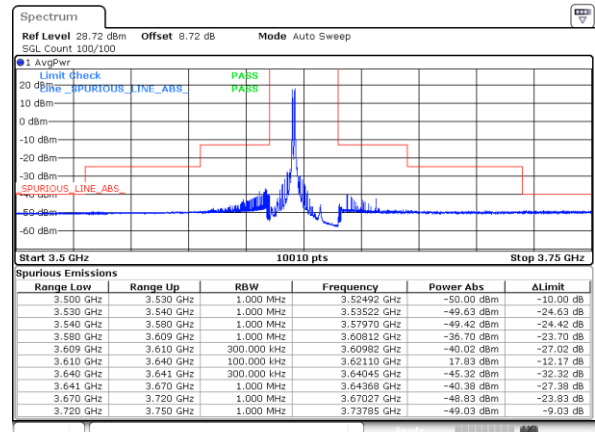
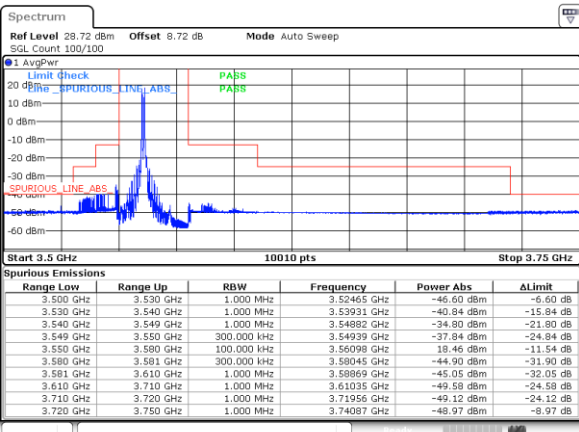


Date: 23.FEB.2023 22:10:52

Date: 17.FEB.2023 02:01:12

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

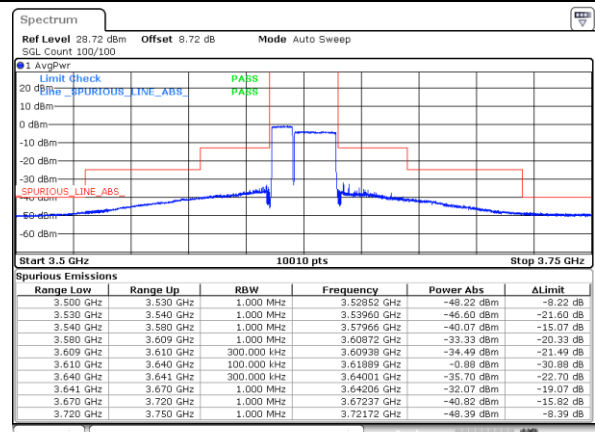
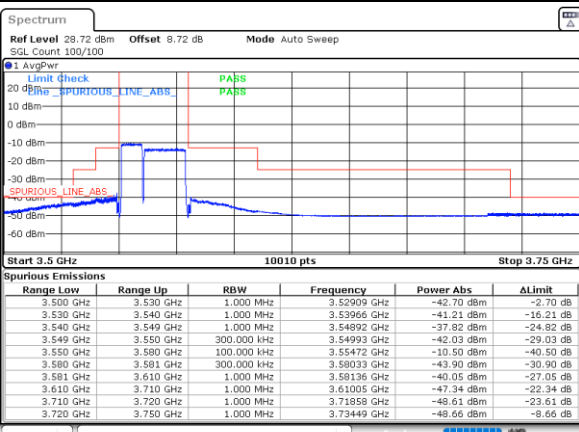


Date: 11.FEB.2023 22:12:16

Date: 11.FEB.2023 22:36:17

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 17.FEB.2023 01:54:38

Date: 11.FEB.2023 22:23:15



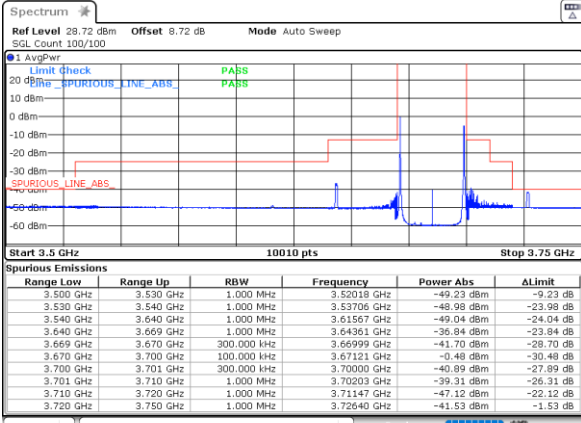


LTE Band 48C / 10MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

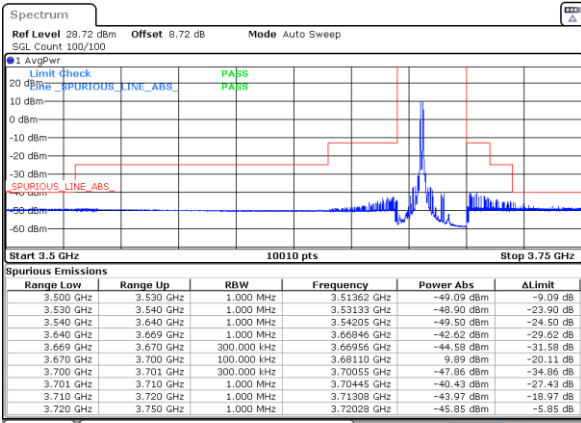
N/A



Date: 17\_FEB\_2023 05:19:06

Highest Band Edge / 1RB49 and 1RB0

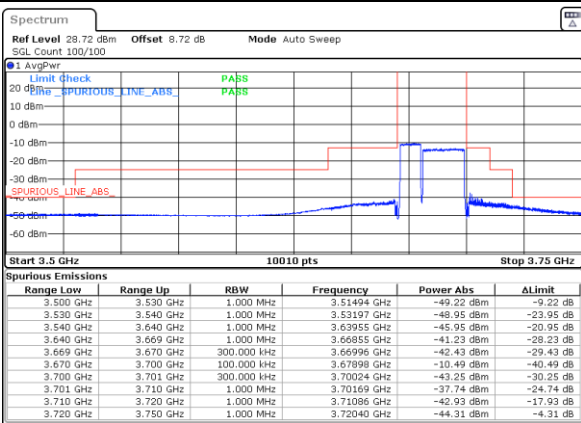
N/A



Date: 17\_FEB\_2023 02:07:45

Highest Band Edge / Full RB

N/A



Date: 17\_FEB\_2023 02:18:30