

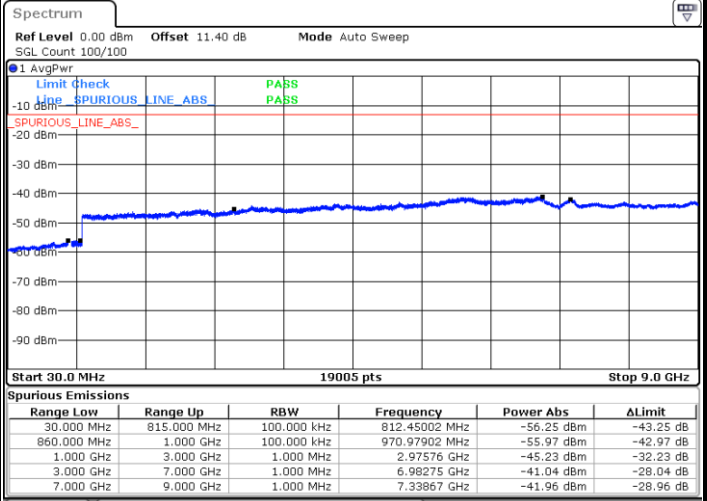
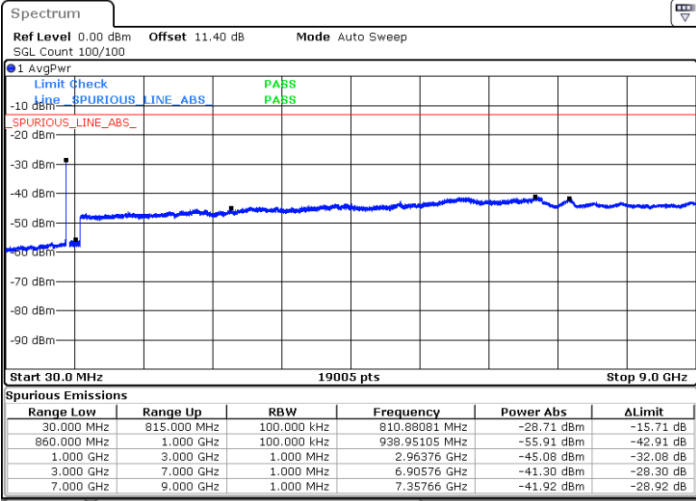


LTE Band 5B / 5MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB24 and 1RB0

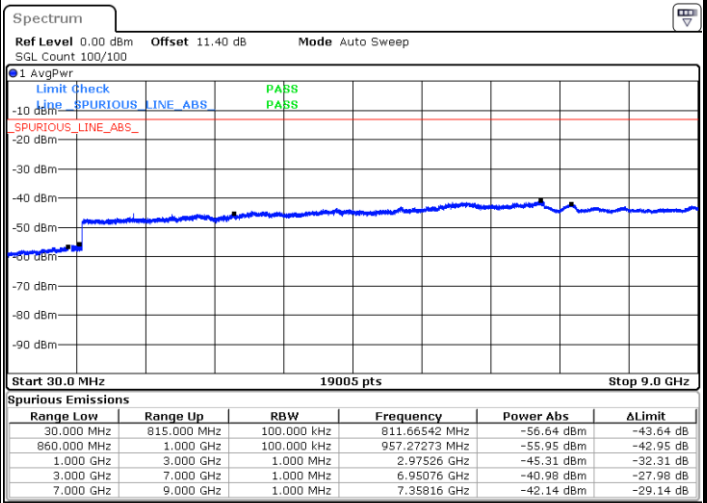
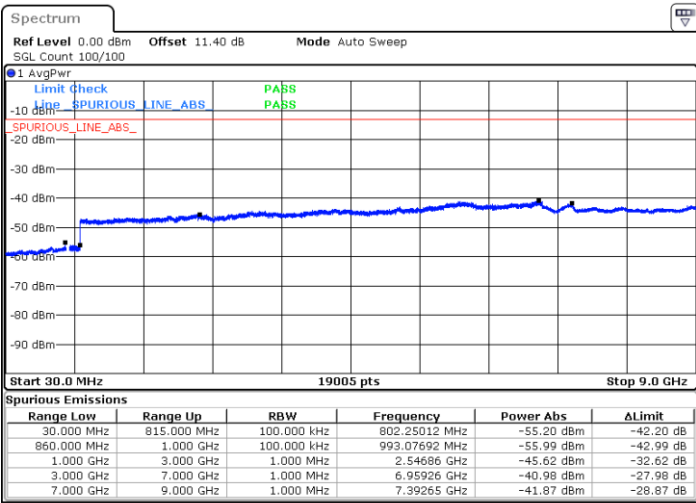


Date: 2.NOV.2021 23:06:31

Date: 2.NOV.2021 23:05:27

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB24 and 1RB0



Date: 2.NOV.2021 23:10:38

Date: 2.NOV.2021 23:11:43

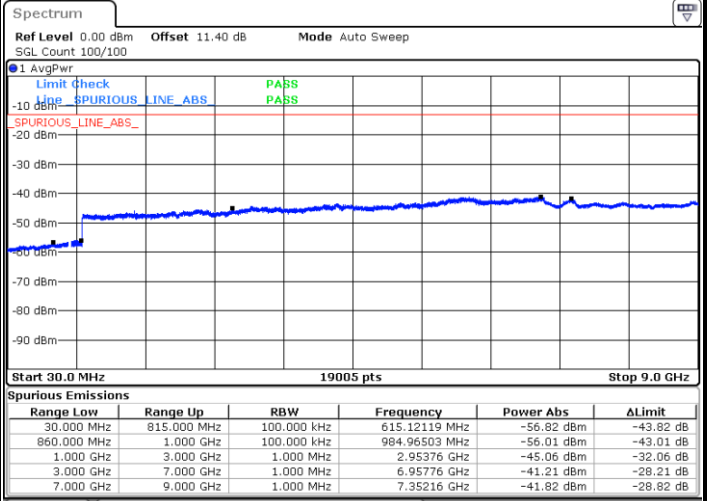
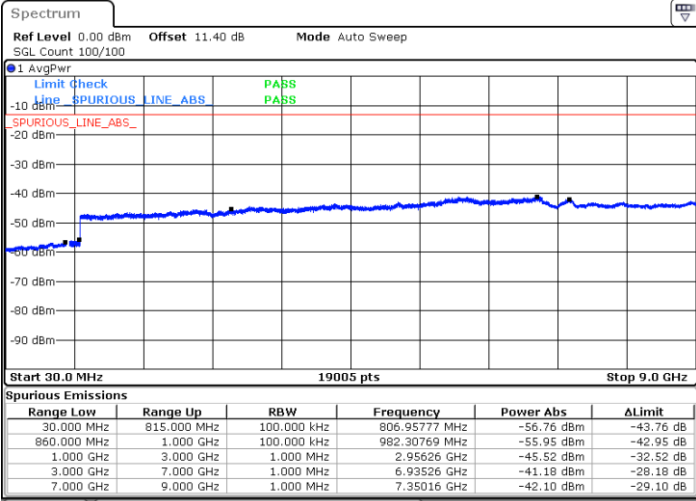


LTE Band 5B / 5MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB24 and 1RB0



Date: 2.NOV.2021 22:46:20

Date: 2.NOV.2021 22:45:16

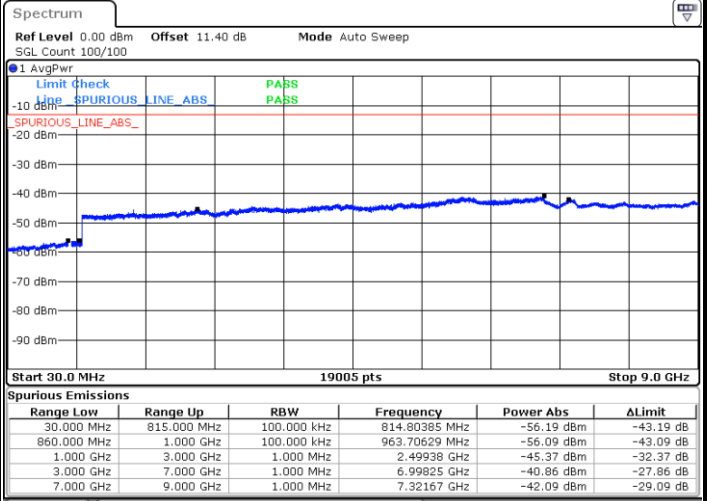
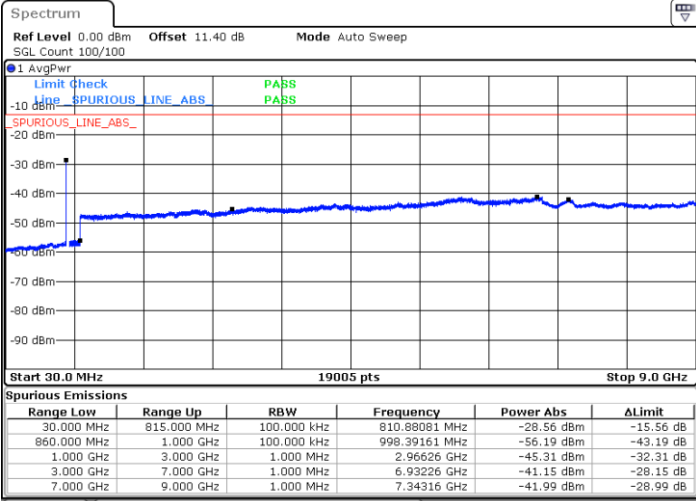


LTE Band 5B / 10MHz+5MHz

QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB49 and 1RB0

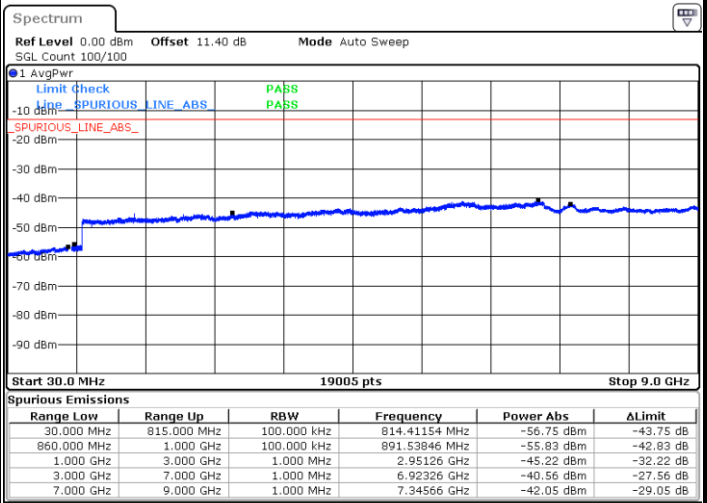
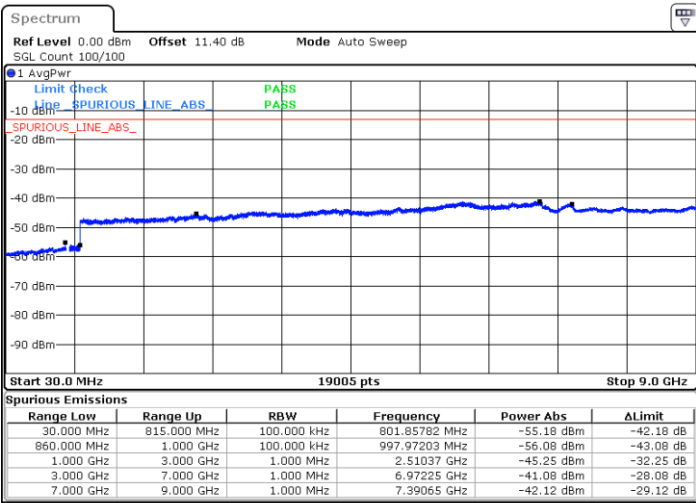


Date: 2.NOV.2021 23:52:44

Date: 2.NOV.2021 23:51:40

Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB49 and 1RB0



Date: 2.NOV.2021 23:56:52

Date: 2.NOV.2021 23:57:56

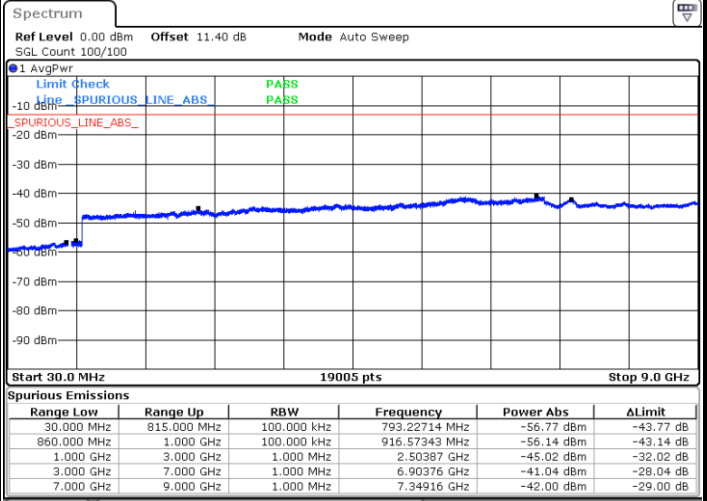
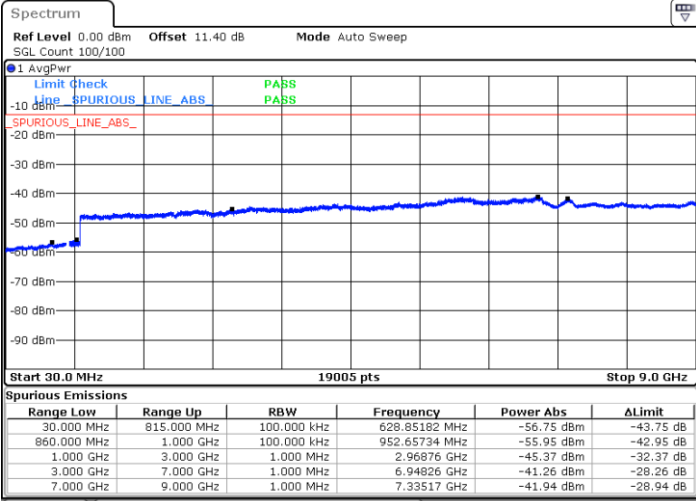


LTE Band 5B / 10MHz+5MHz

QPSK

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB49 and 1RB0



Date: 2.NOV.2021 23:32:33

Date: 2.NOV.2021 23:31:29

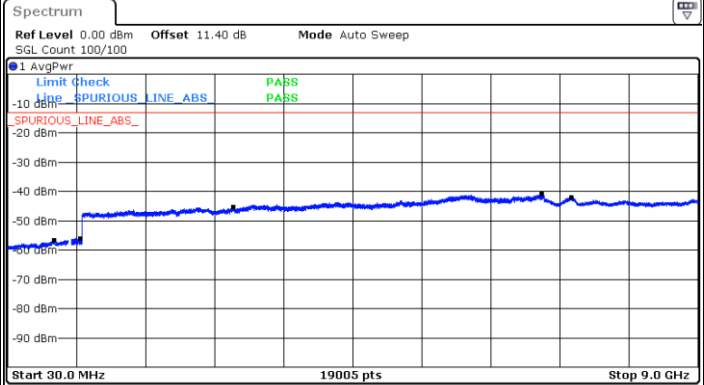
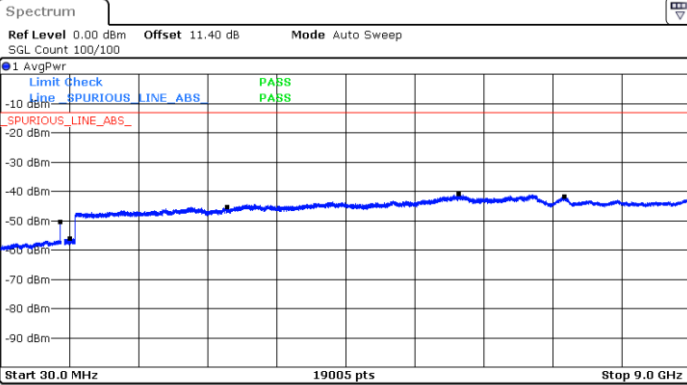


LTE Band 5B / 10MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	805.78086 MHz	-50.43 dBm	-37.43 dB
860.000 MHz	1.000 GHz	100.000 kHz	925.10490 MHz	-56.02 dBm	-43.02 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97526 GHz	-45.25 dBm	-32.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.97599 GHz	-41.04 dBm	-28.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.35516 GHz	-41.83 dBm	-28.83 dB

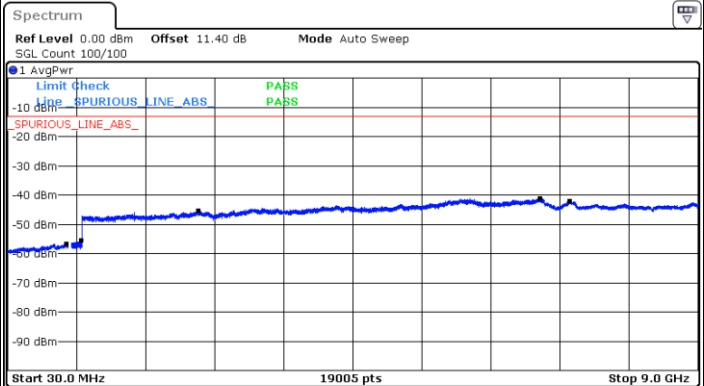
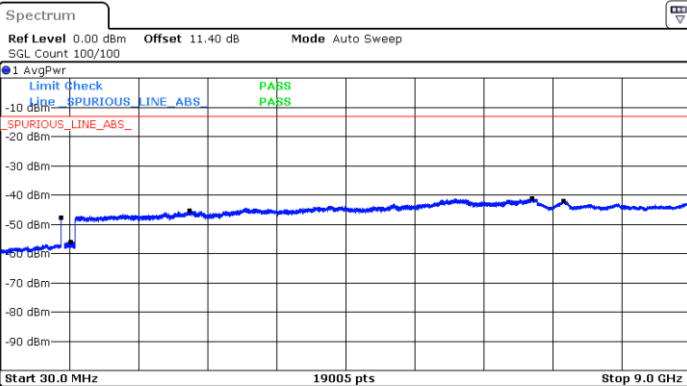
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	636.69790 MHz	-56.70 dBm	-43.70 dB
860.000 MHz	1.000 GHz	100.000 kHz	967.62238 MHz	-56.18 dBm	-43.18 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96326 GHz	-45.50 dBm	-32.50 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96975 GHz	-41.04 dBm	-28.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.35066 GHz	-42.14 dBm	-29.14 dB

Date: 3.NOV.2021 00:38:15

Date: 3.NOV.2021 00:37:11

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	808.52699 MHz	-47.88 dBm	-34.88 dB
860.000 MHz	1.000 GHz	100.000 kHz	943.84615 MHz	-55.97 dBm	-42.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.48788 GHz	-45.49 dBm	-32.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93076 GHz	-41.09 dBm	-28.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34416 GHz	-42.11 dBm	-29.11 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	792.83463 MHz	-56.82 dBm	-43.82 dB
860.000 MHz	1.000 GHz	100.000 kHz	978.95105 MHz	-55.62 dBm	-42.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51037 GHz	-45.29 dBm	-32.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94976 GHz	-41.16 dBm	-28.16 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.33167 GHz	-42.11 dBm	-29.11 dB

Date: 3.NOV.2021 00:42:23

Date: 3.NOV.2021 00:43:27

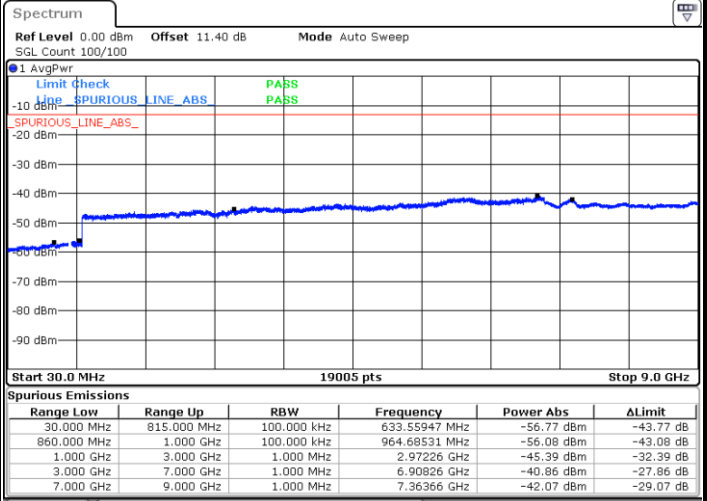
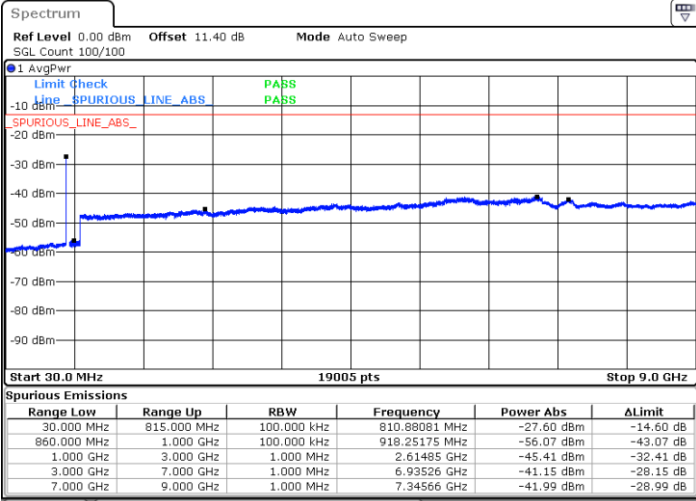


LTE Band 5B / 10MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Date: 3.NOV.2021 00:18:05

Date: 3.NOV.2021 00:17:01



## LTE Band 13

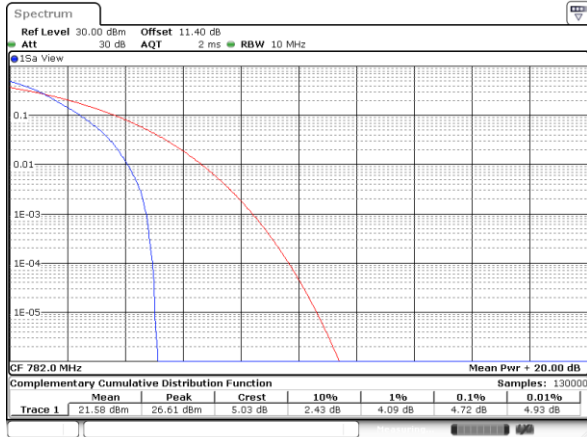
### Peak-to-Average Ratio

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	4.72	5.71	5.62	6.55	PASS



LTE Band 13 / 10MHz / QPSK

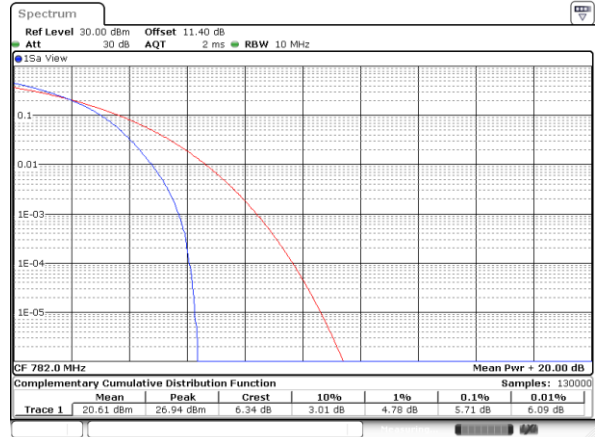
Middle Channel / Full RB



Date: 24.OCT.2021 08:37:14

LTE Band 13 / 10MHz / 16QAM

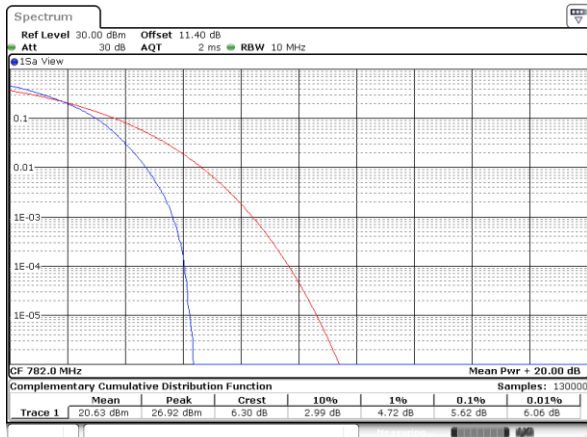
Middle Channel / Full RB



Date: 24.OCT.2021 08:16:51

LTE Band 13 / 10MHz / 64QAM

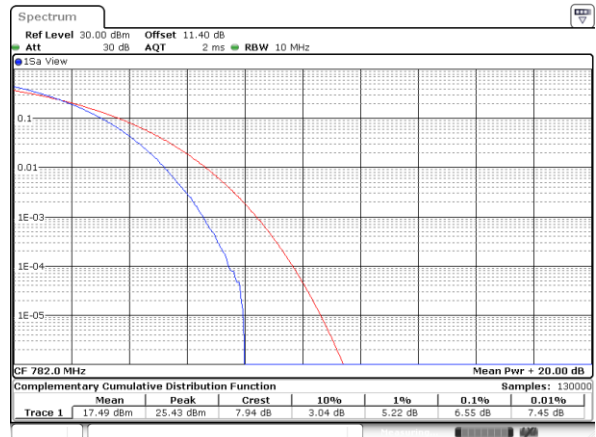
Middle Channel / Full RB



Date: 24.OCT.2021 08:36:29

LTE Band 13 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 24.OCT.2021 09:02:17





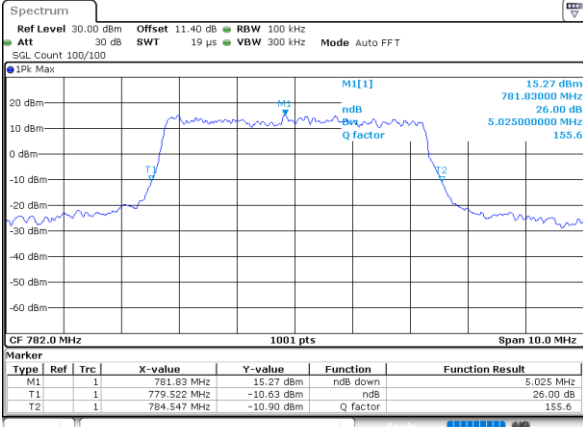
**26dB Bandwidth**

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	-	-	-	-	5.03	5.05	9.83	9.87	-	-	-	-
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	-	-	-	-	5.01	4.89	9.79	9.75	-	-	-	-



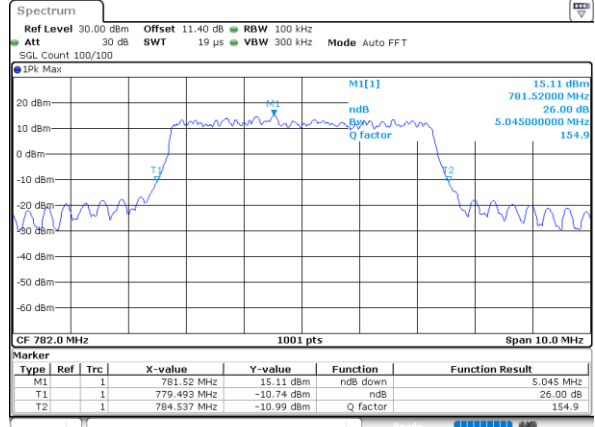
LTE Band 13

Middle Channel / 5MHz / QPSK



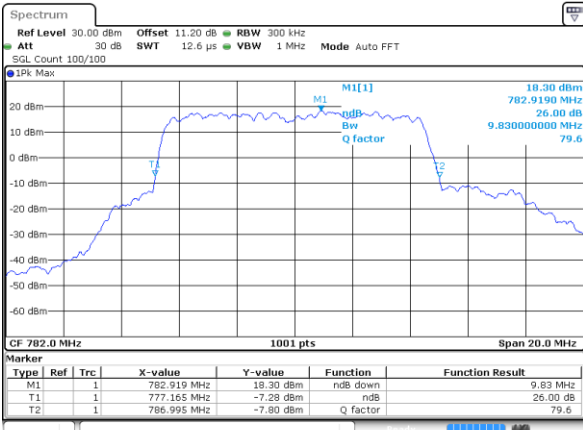
Date: 24.OCT.2021 07:59:02

Middle Channel / 5MHz / 16QAM



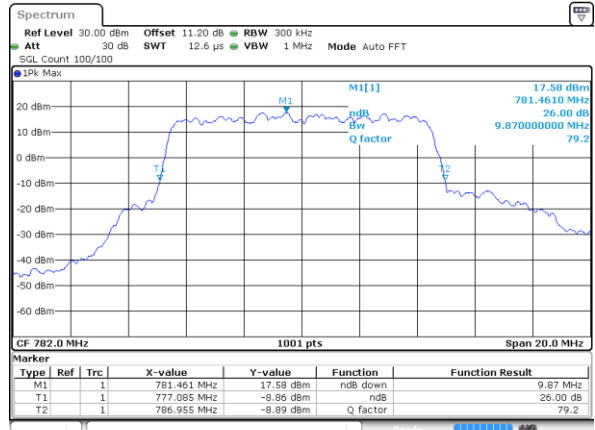
Date: 24.OCT.2021 07:59:23

Middle Channel / 10MHz / QPSK



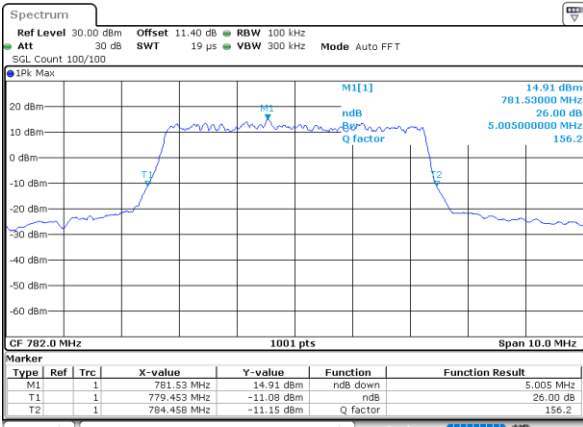
Date: 24 MAR 2021 00:06:31

Middle Channel / 10MHz / 16QAM



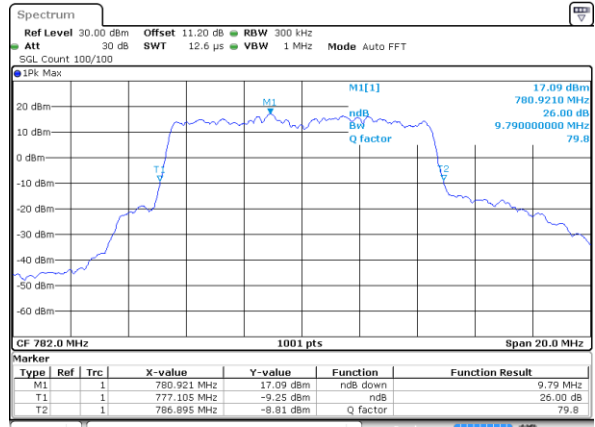
Date: 24 MAR 2021 00:06:08

Middle Channel / 5MHz / 64QAM



Date: 24.OCT.2021 08:12:30

Middle Channel / 10MHz / 64QAM



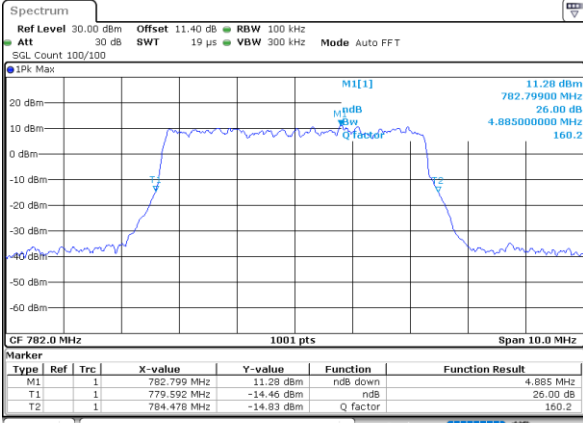
Date: 24 MAR 2021 00:19:18



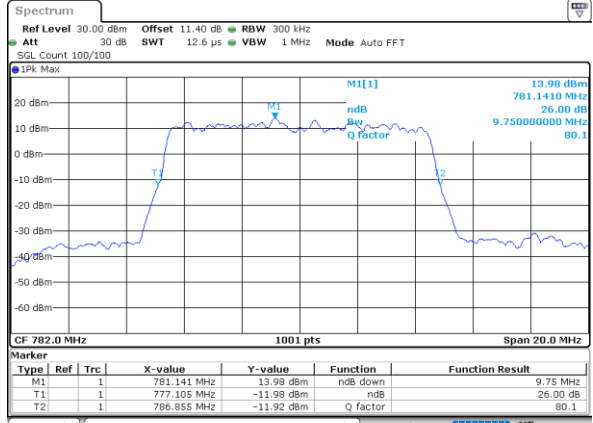
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 24.OCT.2021 08:49:27



Date: 24.OCT.2021 08:56:25



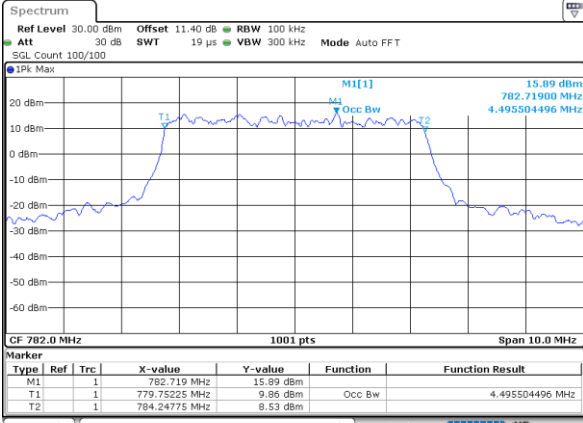
**Occupied Bandwidth**

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	-	-	-	-	4.50	4.49	9.03	9.03	-	-	-	-
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	-	-	-	-	4.50	4.49	9.03	9.01	-	-	-	-



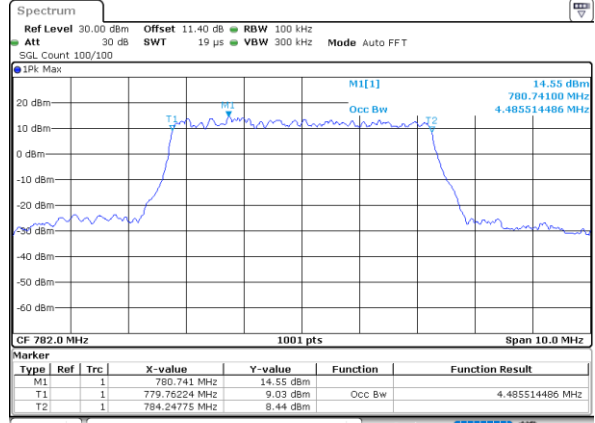
LTE Band 13

Middle Channel / 5MHz / QPSK



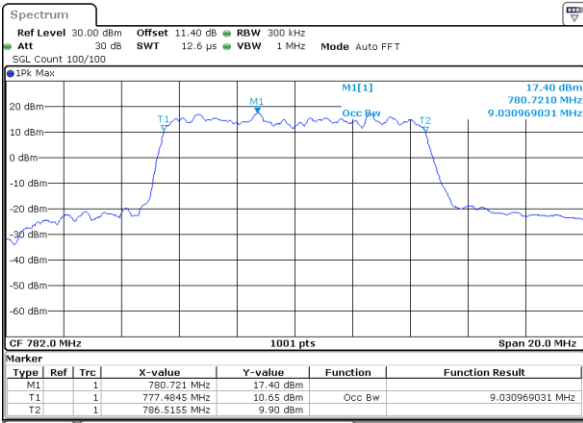
Date: 24.OCT.2021 08:00:05

Middle Channel / 5MHz / 16QAM



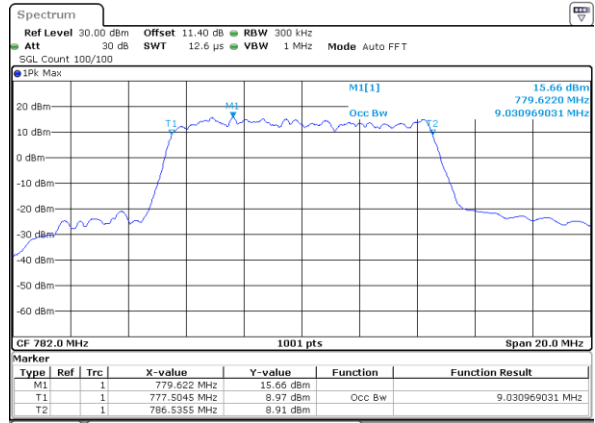
Date: 24.OCT.2021 07:59:44

Middle Channel / 10MHz / QPSK



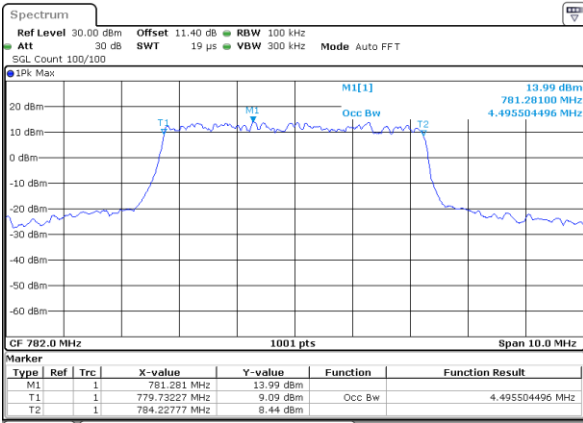
Date: 24.OCT.2021 08:16:53

Middle Channel / 10MHz / 16QAM



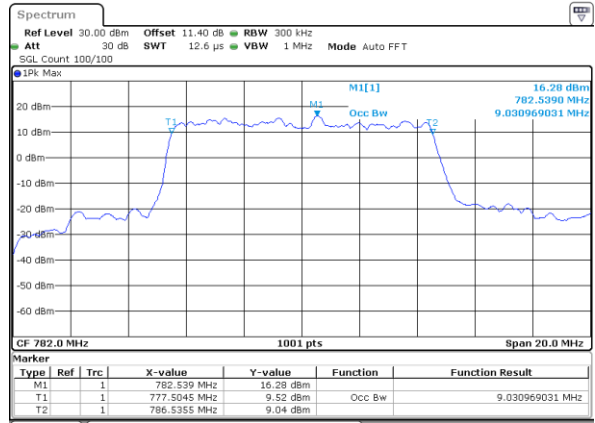
Date: 24.OCT.2021 08:17:14

Middle Channel / 5MHz / 64QAM



Date: 24.OCT.2021 08:12:51

Middle Channel / 10MHz / 64QAM



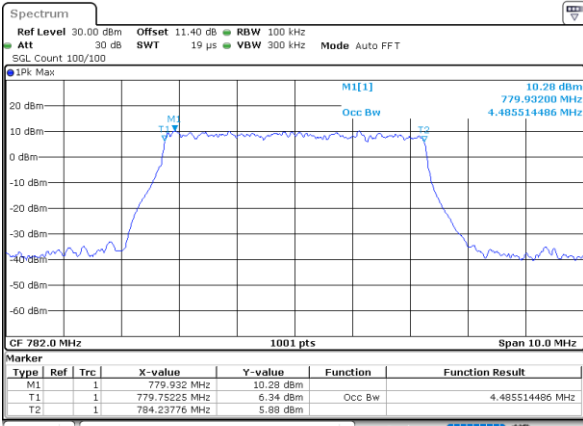
Date: 24.OCT.2021 08:10:16



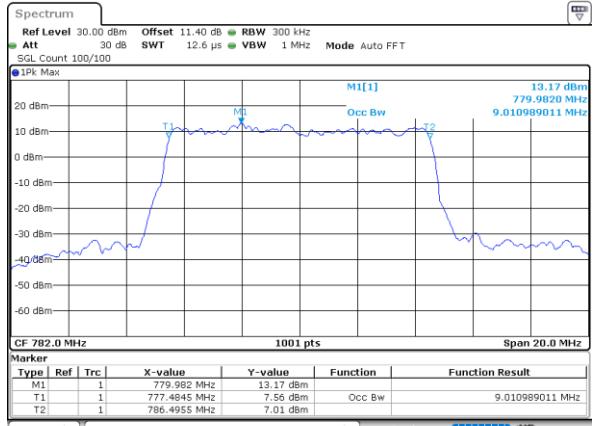
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 24.OCT.2021 08:49:40



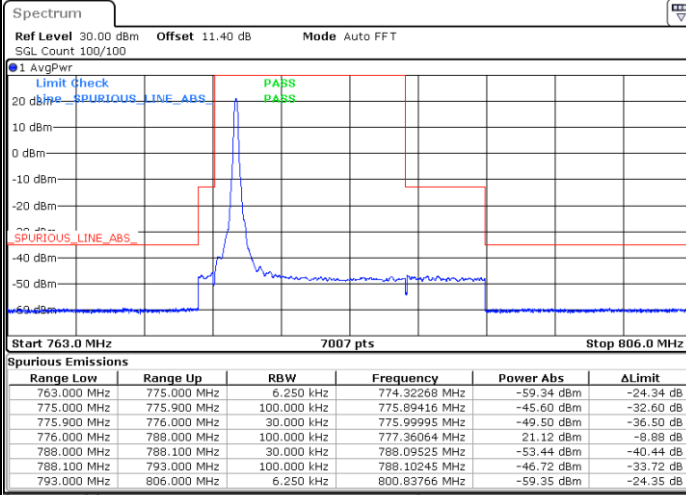
Date: 24.OCT.2021 08:56:04



# Conducted Band Edge

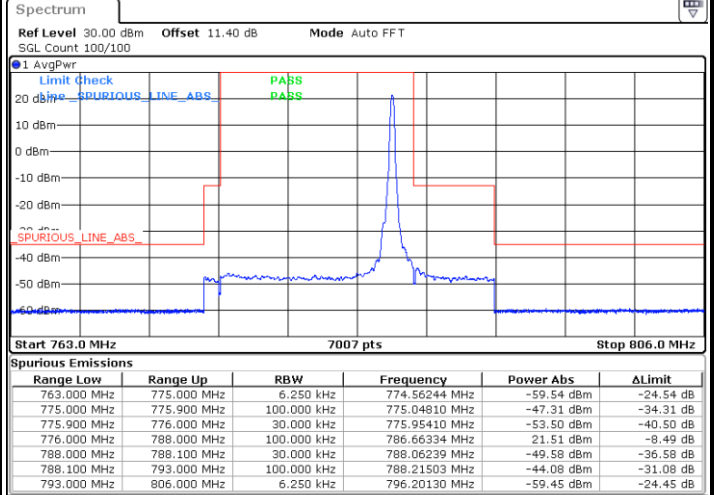
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



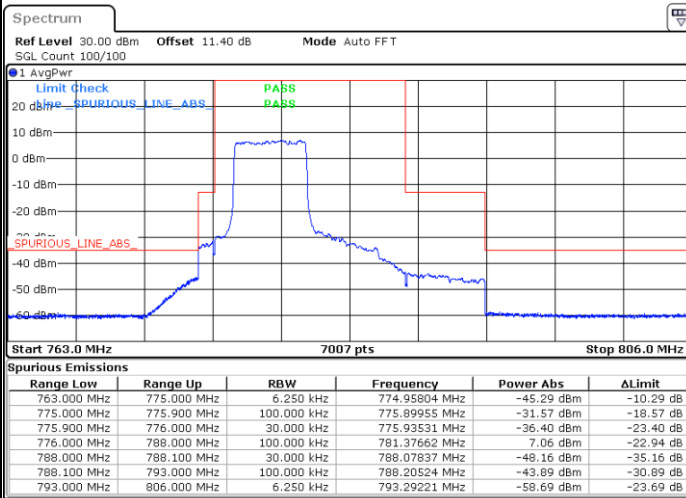
Date: 24.OCT.2021 07:56:42

### Highest Band Edge / 1 RB



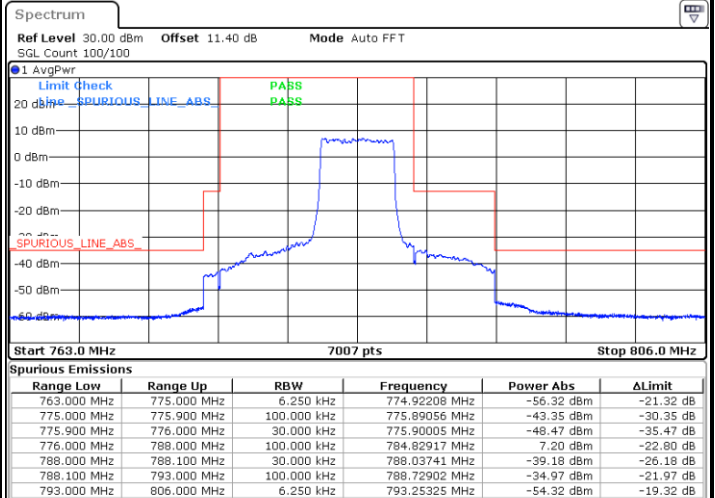
Date: 24.OCT.2021 08:07:27

### Lowest Band Edge / Full RB



Date: 24.OCT.2021 07:51:10

### Highest Band Edge / Full RB



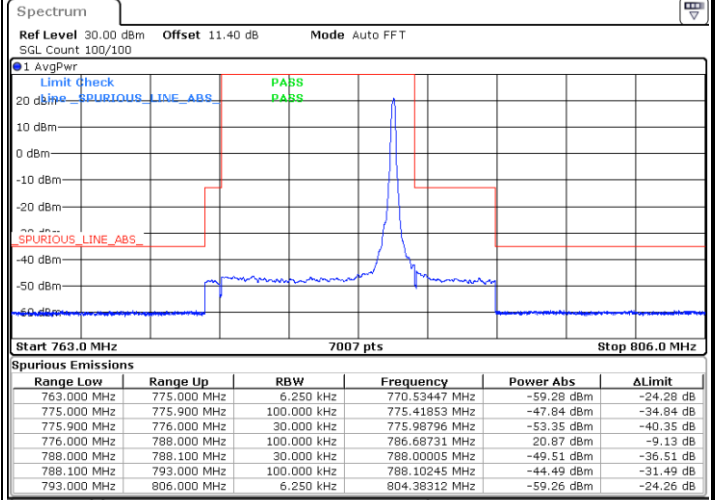
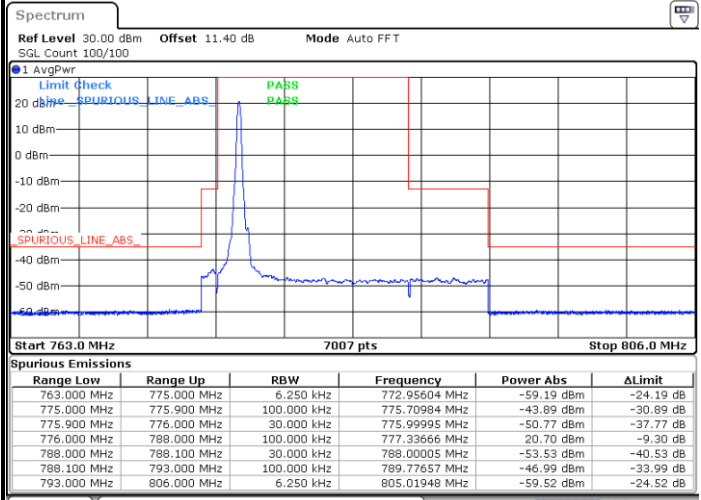
Date: 24.OCT.2021 08:01:55



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

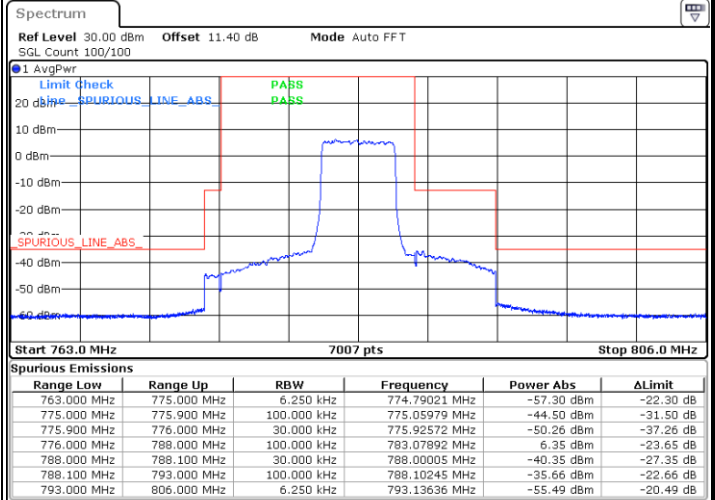
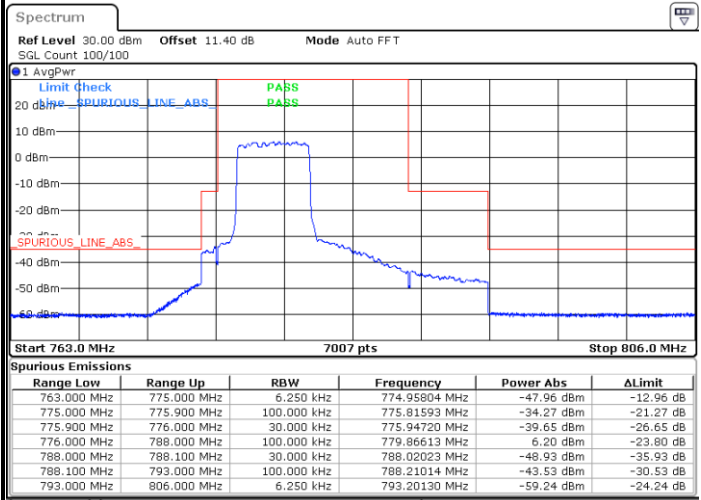


Date: 24.OCT.2021 07:54:51

Date: 24.OCT.2021 08:05:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.OCT.2021 07:53:00

Date: 24.OCT.2021 08:03:46

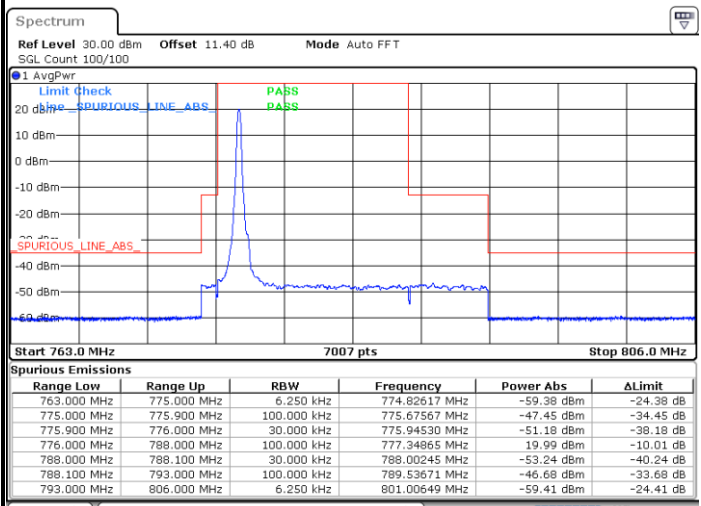




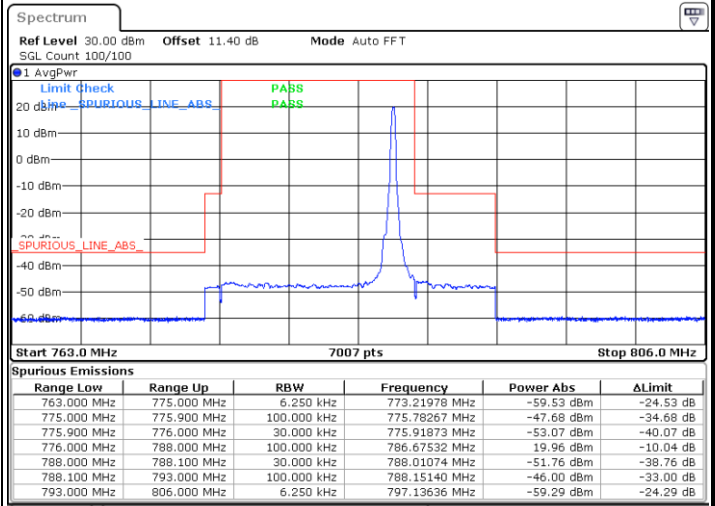
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



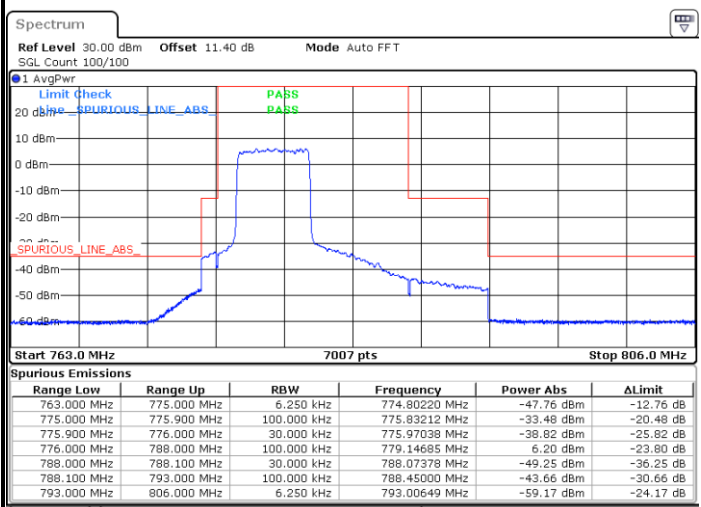
Date: 24.OCT.2021 08:12:09



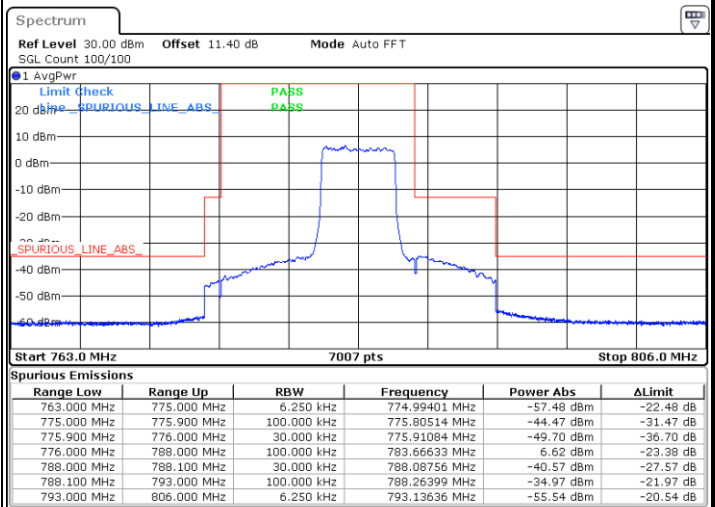
Date: 24.OCT.2021 08:16:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.OCT.2021 08:10:18



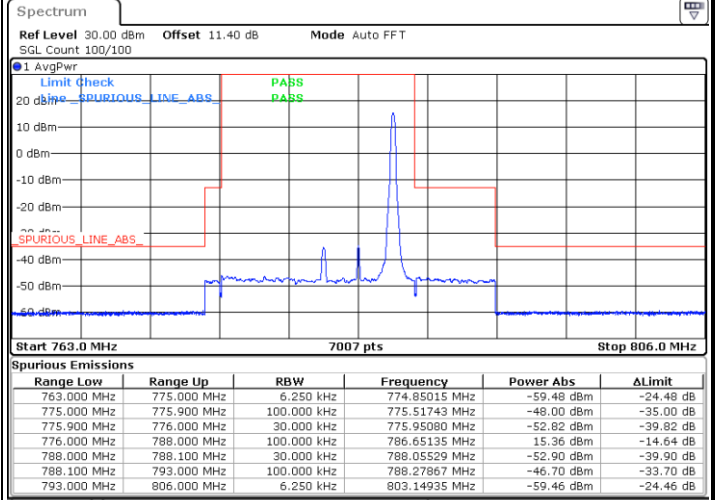
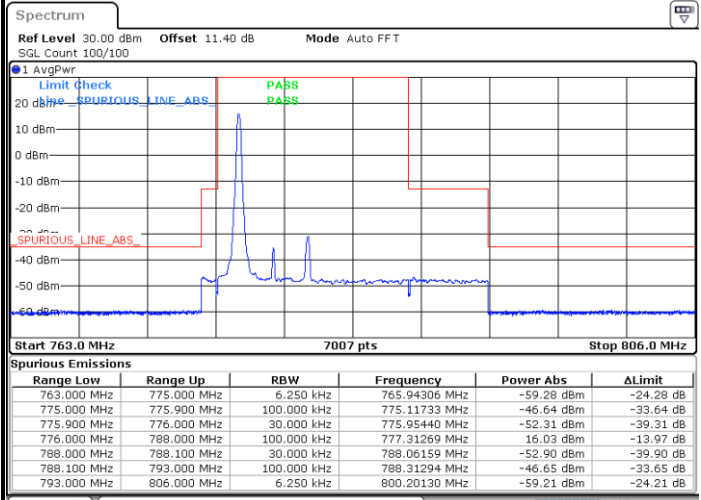
Date: 24.OCT.2021 08:14:41



LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

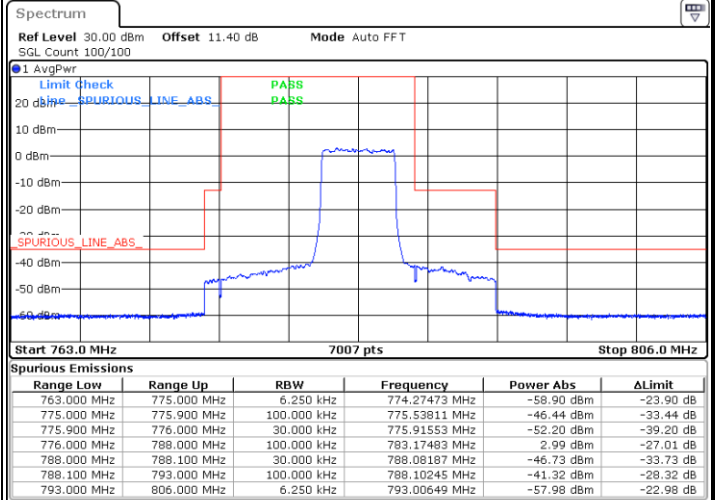
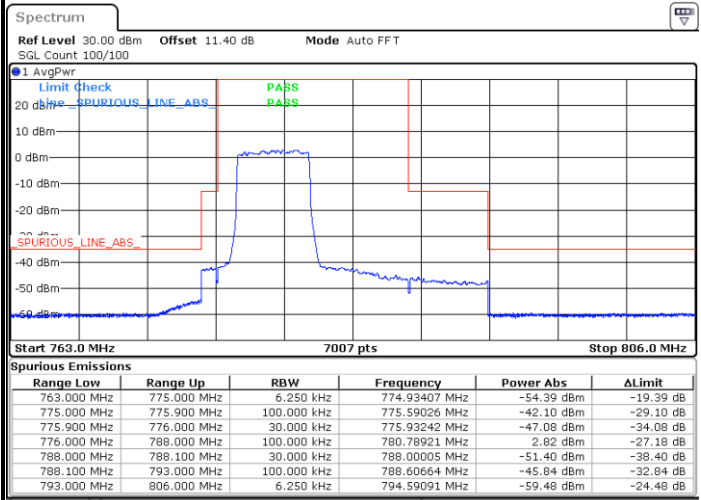


Date: 24.OCT.2021 08:48:46

Date: 24.OCT.2021 08:55:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.OCT.2021 08:41:49

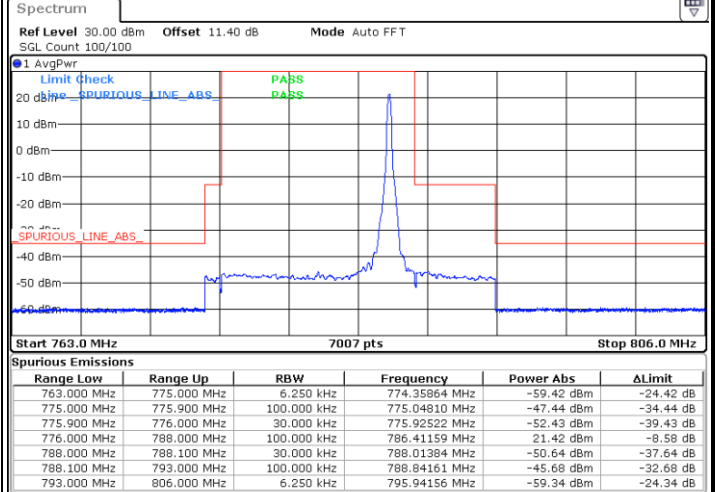
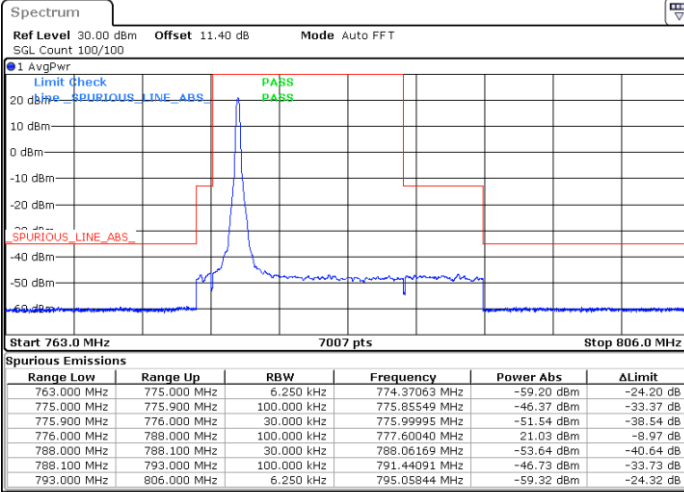
Date: 24.OCT.2021 08:53:34



LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

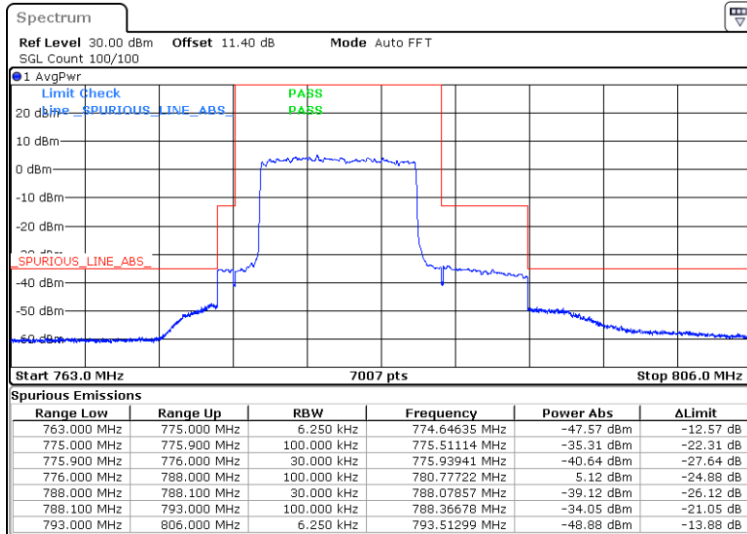
Highest Band Edge / 1 RB



Date: 24.OCT.2021 08:25:16

Date: 24.OCT.2021 08:27:06

Band Edge / Full RB

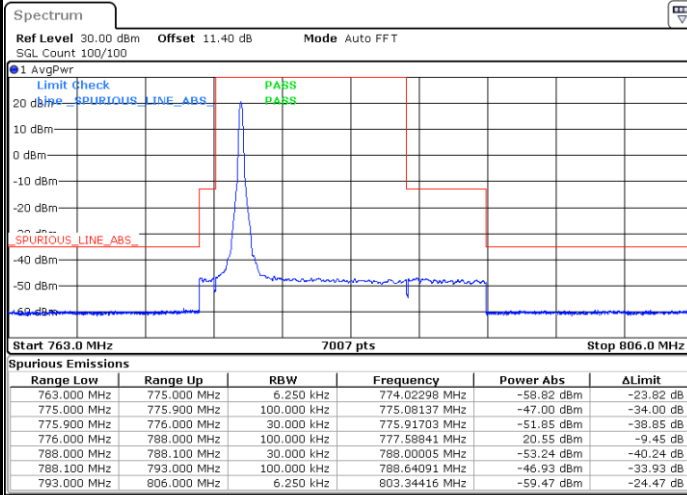


Date: 24.OCT.2021 08:19:46



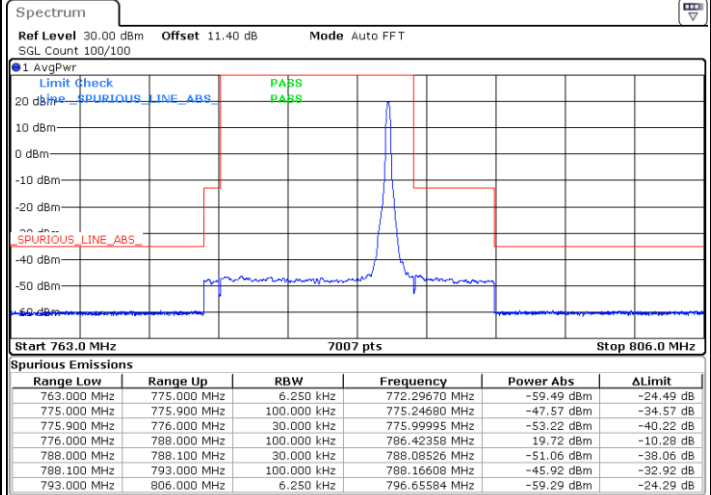
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



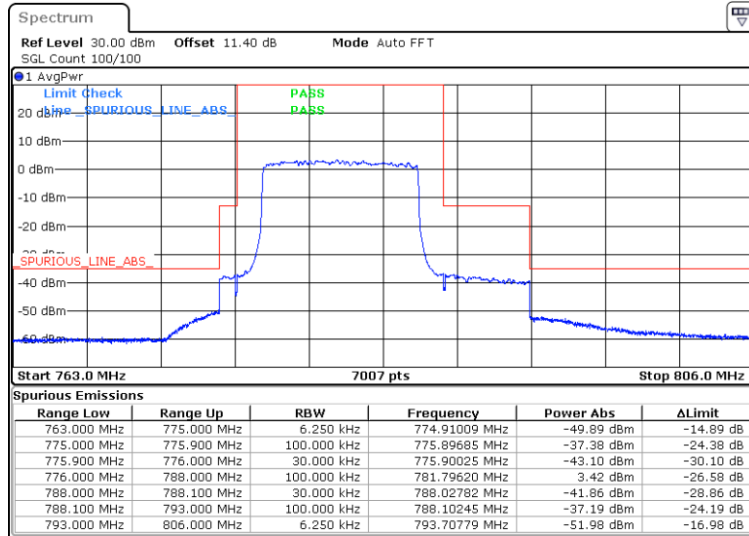
Date: 24.OCT.2021 08:23:26

Highest Band Edge / 1 RB



Date: 24.OCT.2021 08:28:56

Band Edge / Full RB

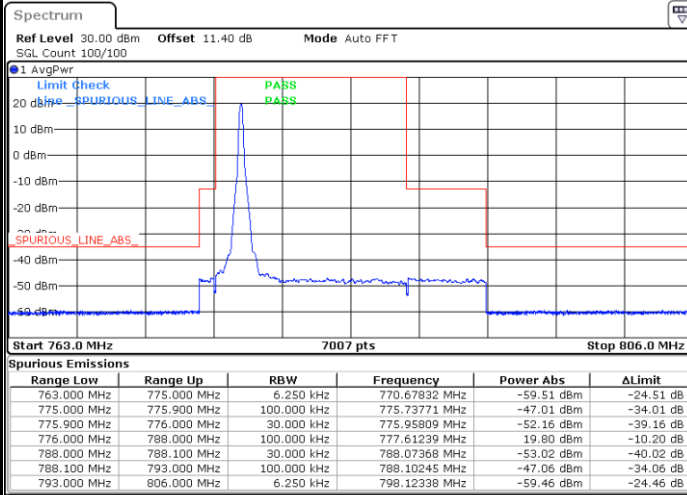


Date: 24.OCT.2021 08:21:36



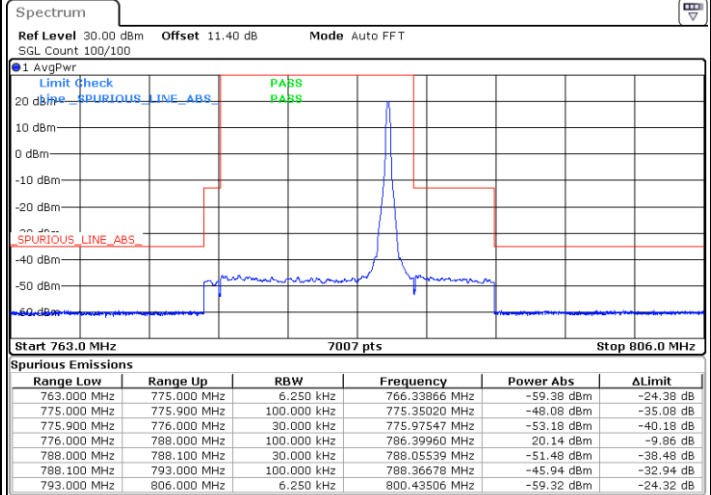
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



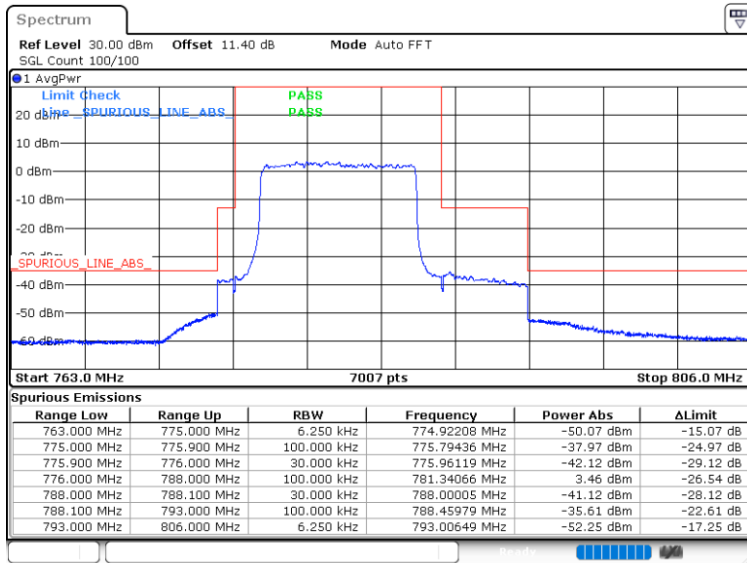
Date: 24.OCT.2021 08:34:17

Highest Band Edge / 1 RB



Date: 24.OCT.2021 08:36:07

Band Edge / Full RB



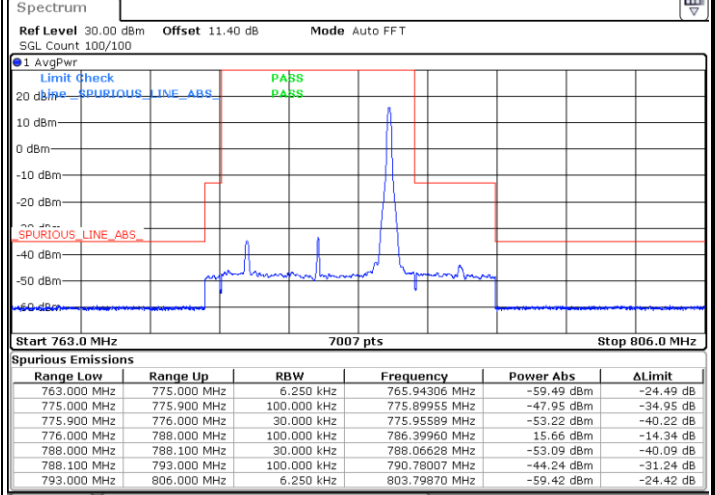
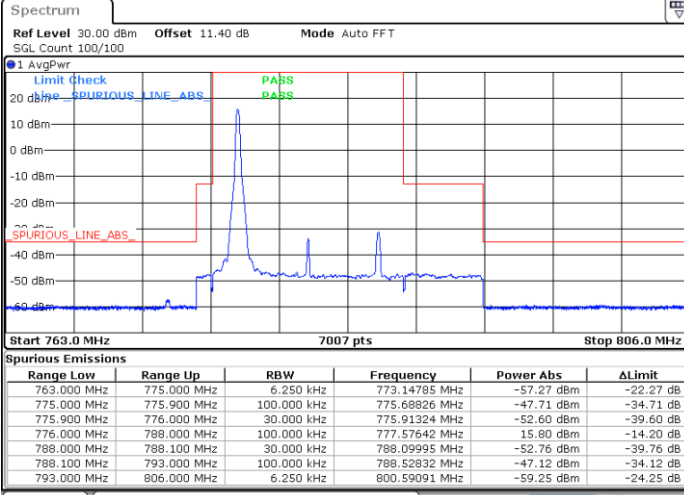
Date: 24.OCT.2021 08:32:27



LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB

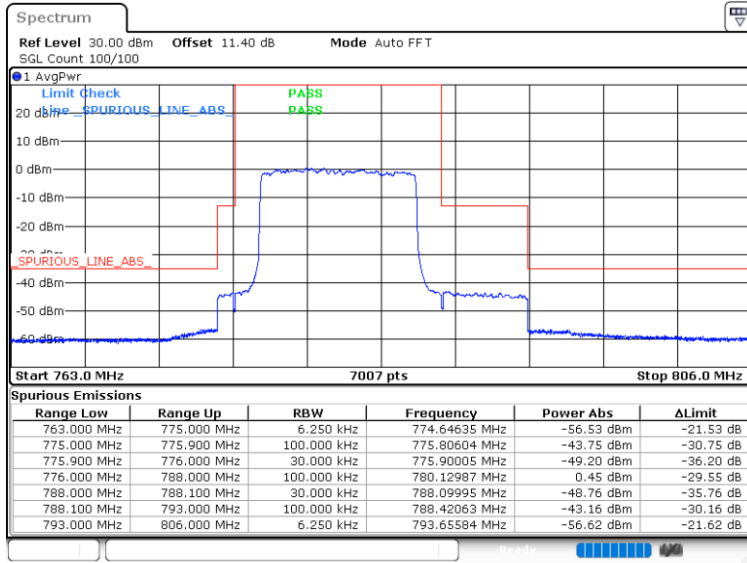
Highest Band Edge / 1 RB



Date: 24.OCT.2021 09:00:05

Date: 24.OCT.2021 09:01:55

Band Edge / Full RB



Date: 24.OCT.2021 08:58:15

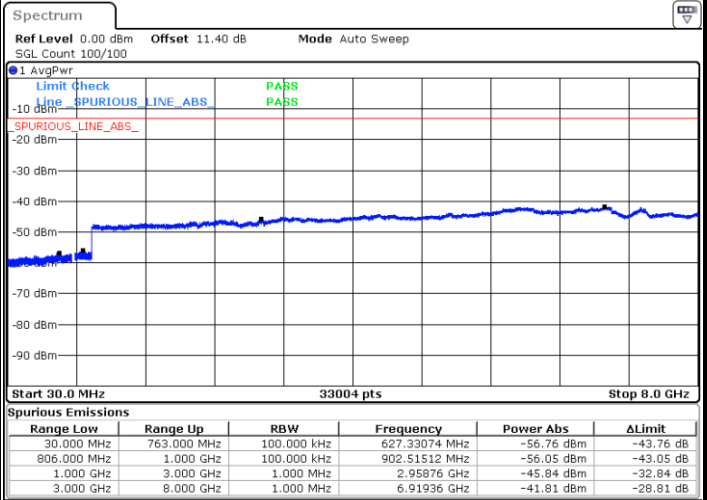
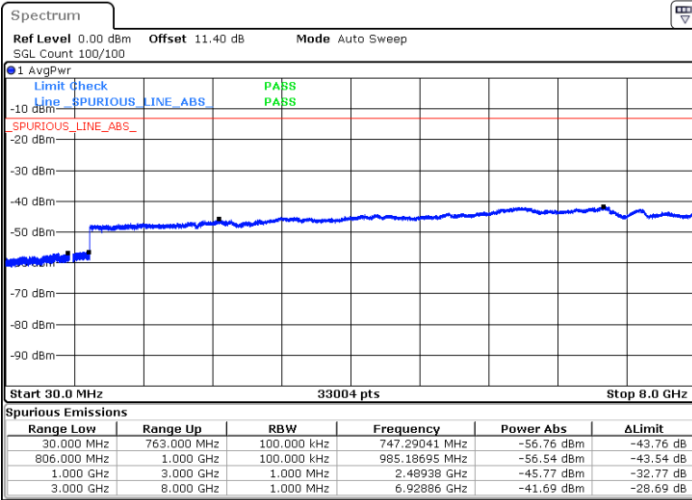


# Conducted Spurious Emission

## LTE Band 13 / 5MHz

### Lowest Channel / QPSK

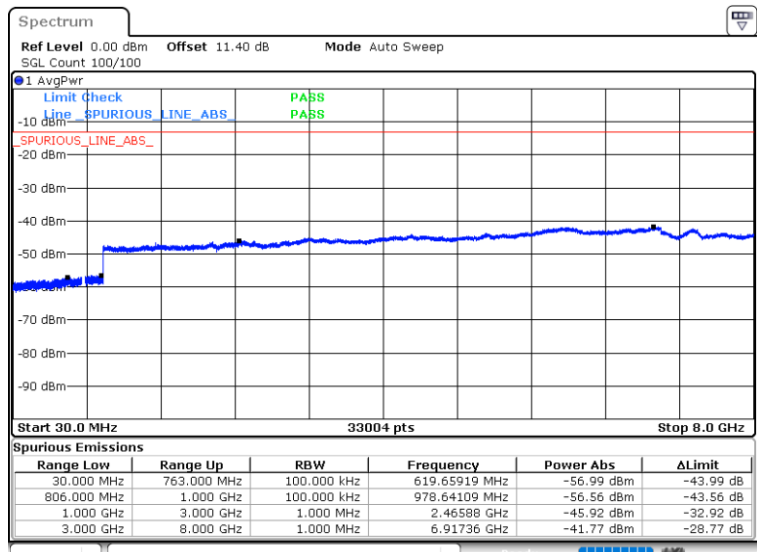
### Middle Channel / QPSK



Date: 24.OCT.2021 07:57:42

Date: 24.OCT.2021 07:58:41

### Highest Channel / QPSK

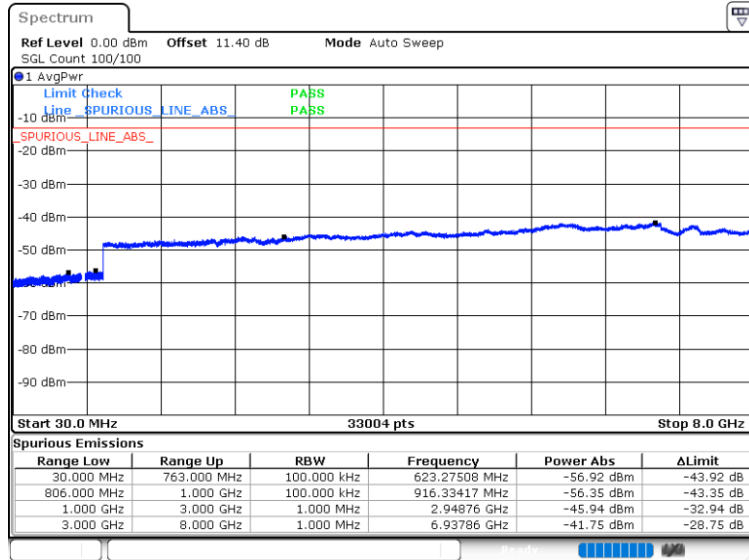


Date: 24.OCT.2021 08:08:27



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 24.OCT.2021 08:29:55





### 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	0.0064	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0104	
0	Normal Voltage	0.0221	
-10	Normal Voltage	0.0159	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0147	
20	Maximum Voltage	0.0157	
20	Normal Voltage	0.0224	
20	Battery End Point	0.0033	

**Note:**

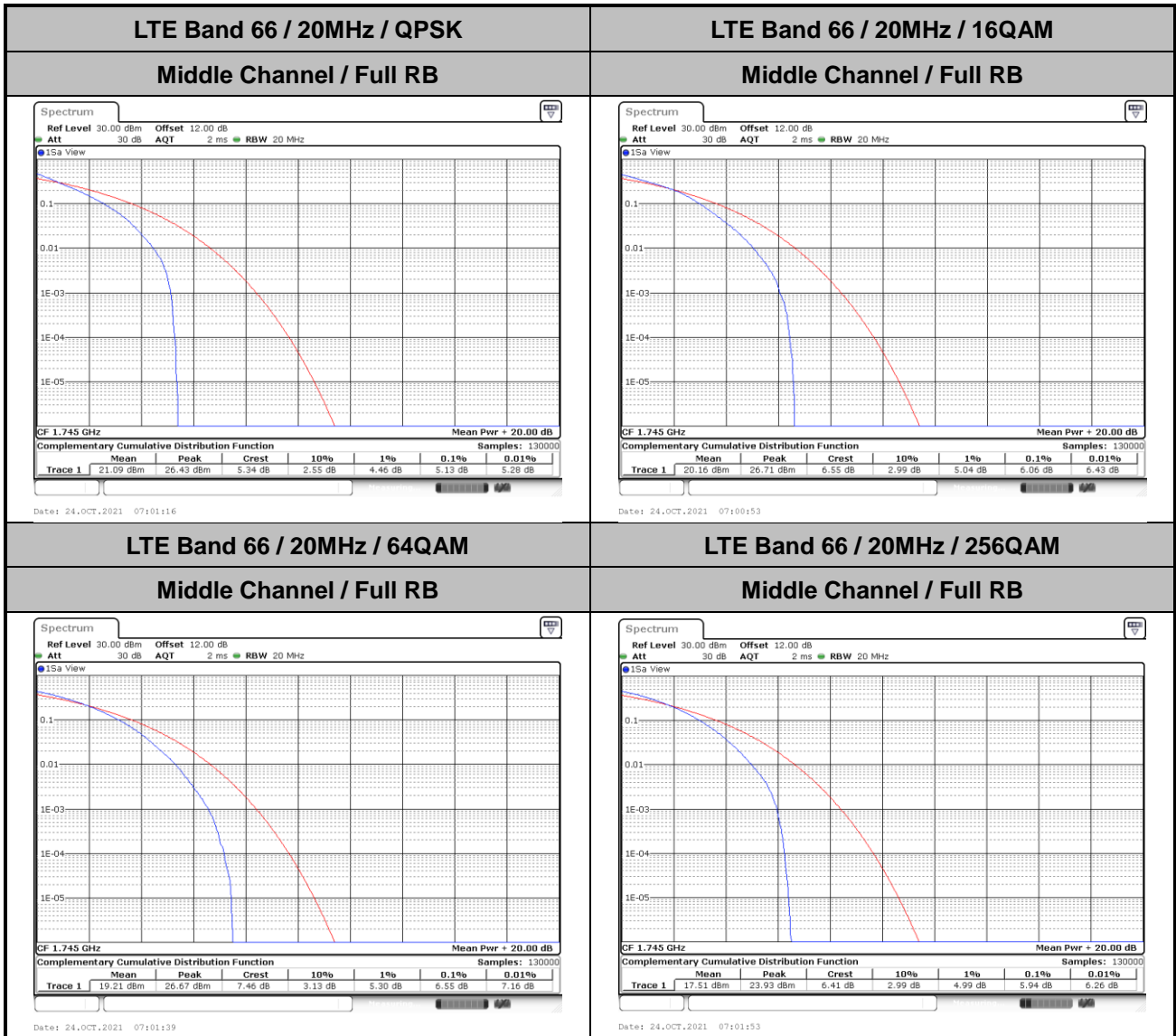
- 1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



## 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	5.13	6.06	6.55	5.94	PASS





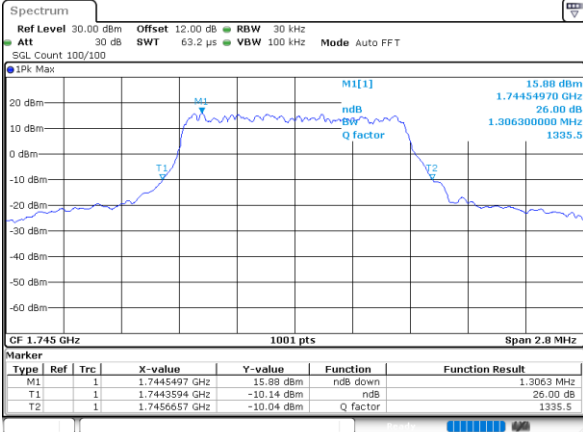
**26dB Bandwidth**

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	1.31	1.31	2.97	3.03	4.98	4.98	9.87	9.85	14.60	14.66	19.06	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	1.31	1.34	3.00	3.06	5.14	4.94	10.13	10.03	14.42	14.87	18.98	19.10



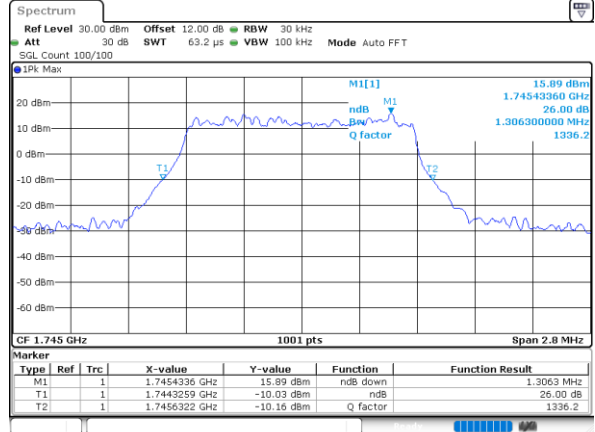
LTE Band 66

Middle Channel / 1.4MHz / QPSK



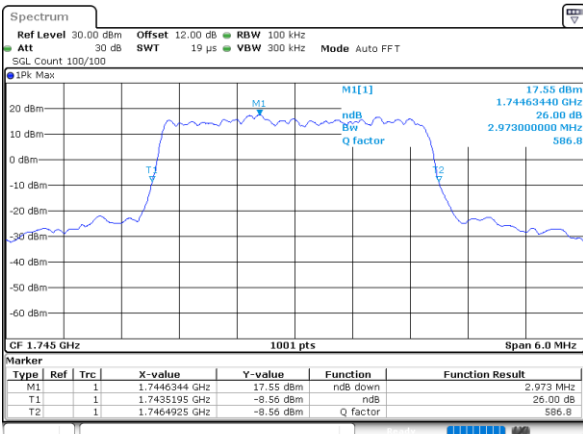
Date: 24.OCT.2021 05:47:18

Middle Channel / 1.4MHz / 16QAM



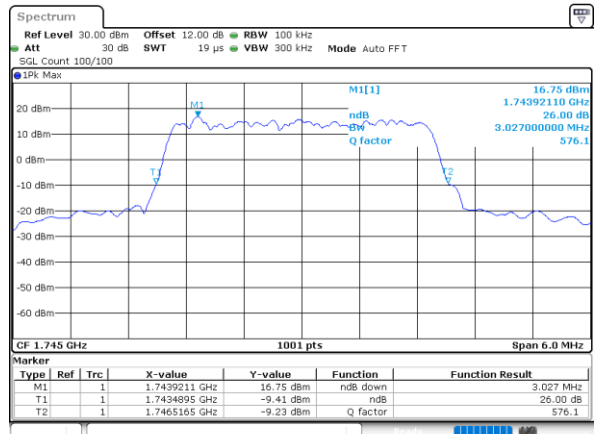
Date: 24.OCT.2021 05:47:19

Middle Channel / 3MHz / QPSK



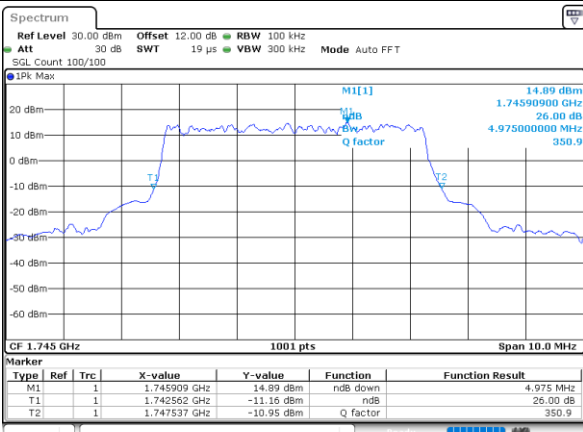
Date: 24.OCT.2021 06:02:56

Middle Channel / 3MHz / 16QAM



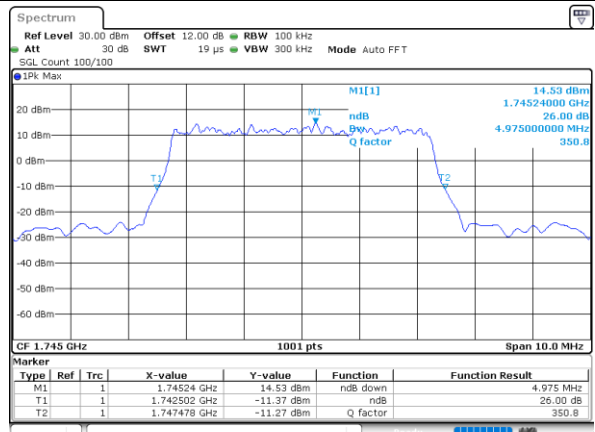
Date: 24.OCT.2021 06:03:17

Middle Channel / 5MHz / QPSK



Date: 24.OCT.2021 06:18:17

Middle Channel / 5MHz / 16QAM

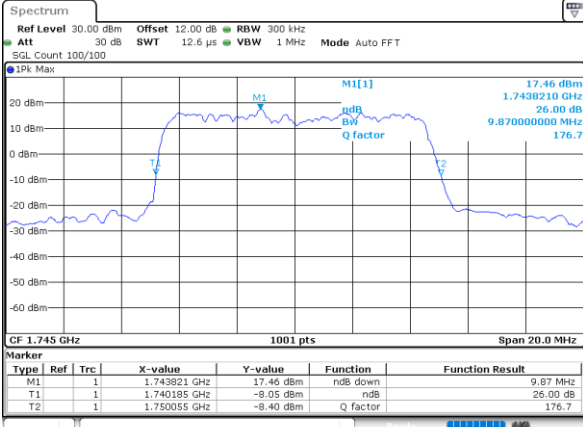


Date: 24.OCT.2021 06:18:38



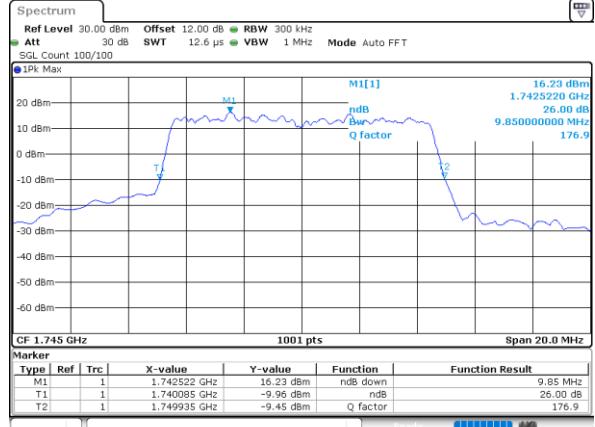
LTE Band 66

Middle Channel / 10MHz / QPSK



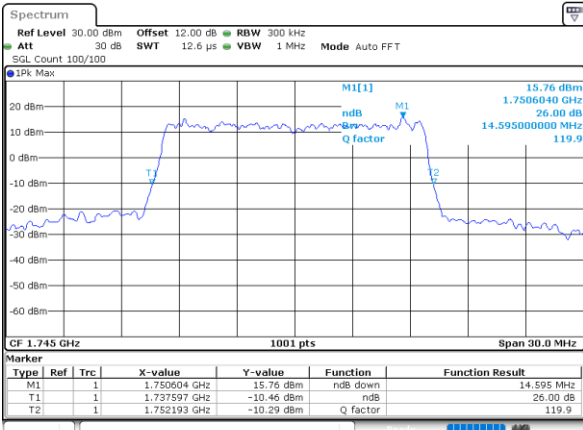
Date: 24.OCT.2021 06:27:49

Middle Channel / 10MHz / 16QAM



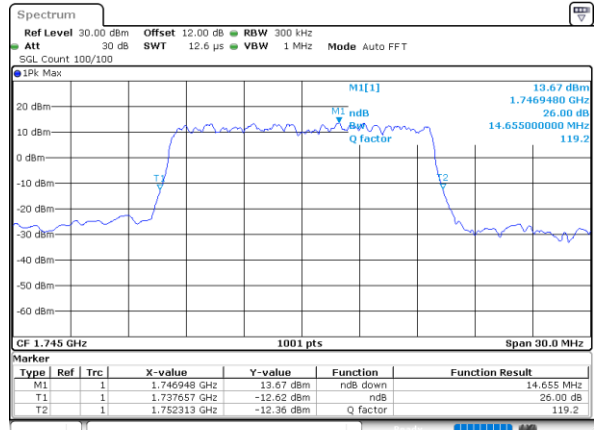
Date: 24.OCT.2021 06:28:10

Middle Channel / 15MHz / QPSK



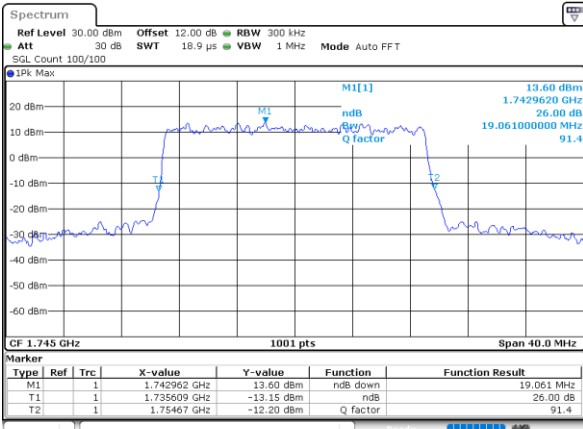
Date: 24.OCT.2021 06:43:09

Middle Channel / 15MHz / 16QAM



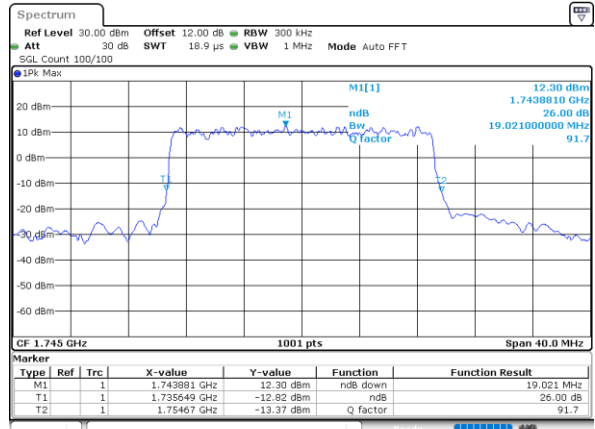
Date: 24.OCT.2021 06:43:30

Middle Channel / 20MHz / QPSK



Date: 24.OCT.2021 06:52:41

Middle Channel / 20MHz / 16QAM

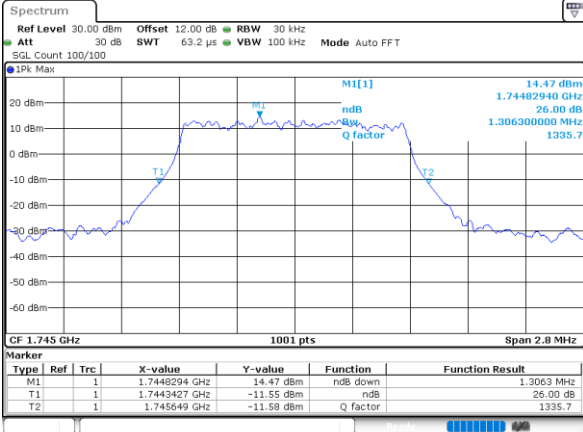


Date: 24.OCT.2021 06:53:03



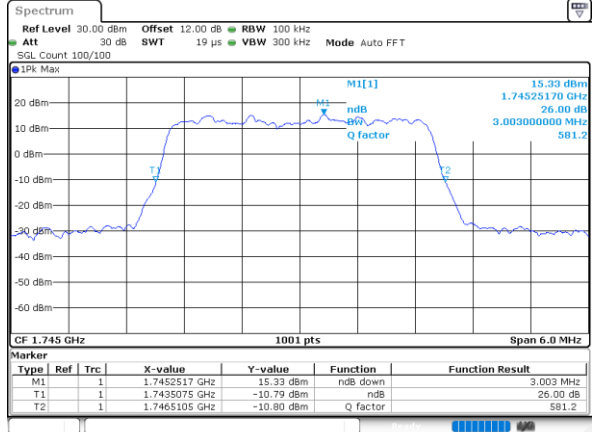
LTE Band 66

Middle Channel / 1.4MHz / 64QAM



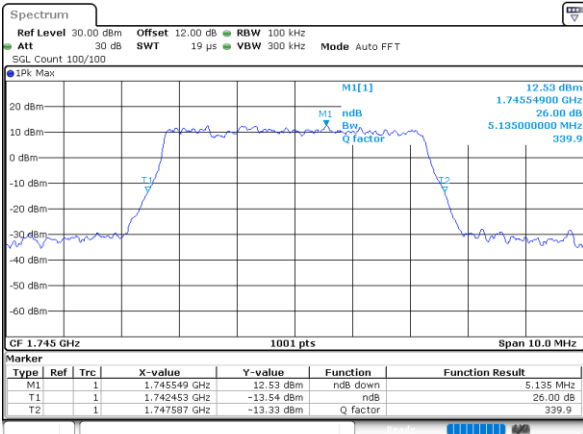
Date: 24.OCT.2021 05:57:15

Middle Channel / 3MHz / 64QAM



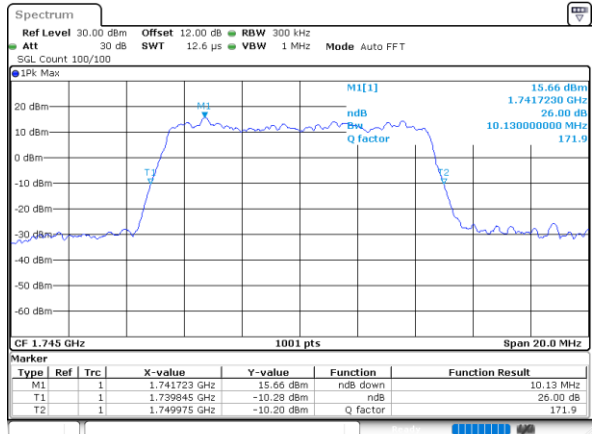
Date: 24.OCT.2021 06:10:34

Middle Channel / 5MHz / 64QAM



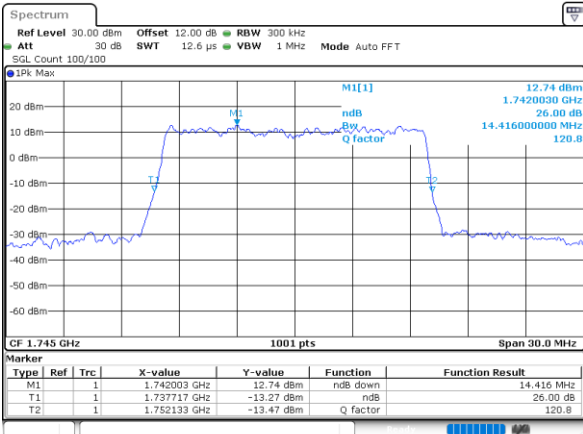
Date: 24.OCT.2021 06:12:39

Middle Channel / 10MHz / 64QAM



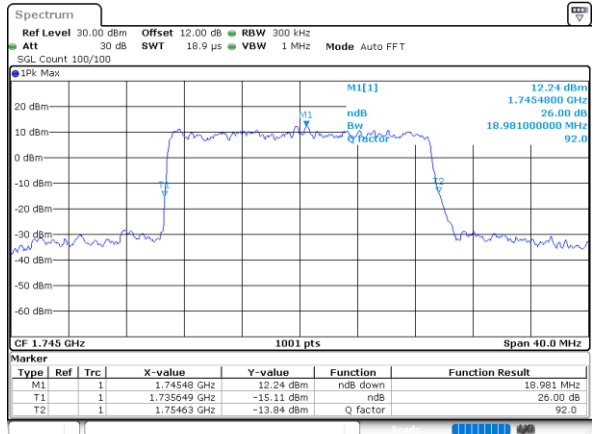
Date: 24.OCT.2021 06:13:26

Middle Channel / 15MHz / 64QAM



Date: 24.OCT.2021 06:37:31

Middle Channel / 20MHz / 64QAM

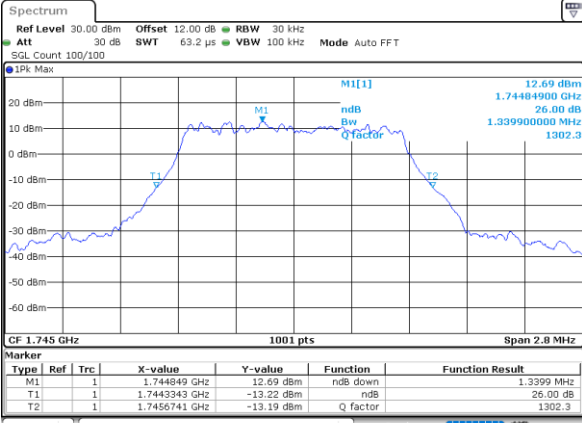


Date: 24.OCT.2021 06:15:19



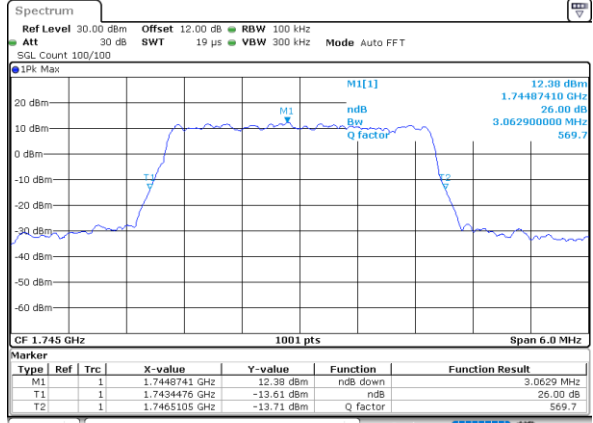
LTE Band 66

Middle Channel / 1.4MHz / 256QAM



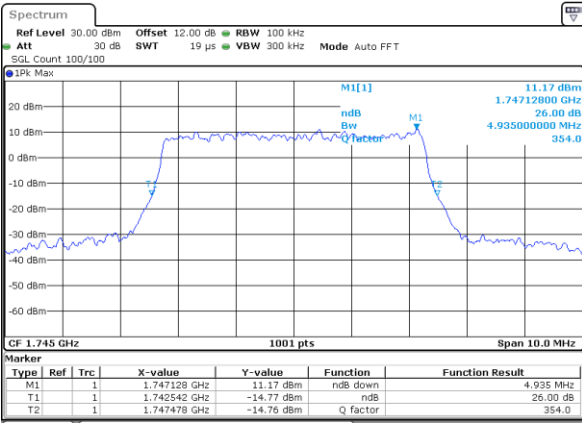
Date: 24.OCT.2021 04:56:54

Middle Channel / 3MHz / 256QAM



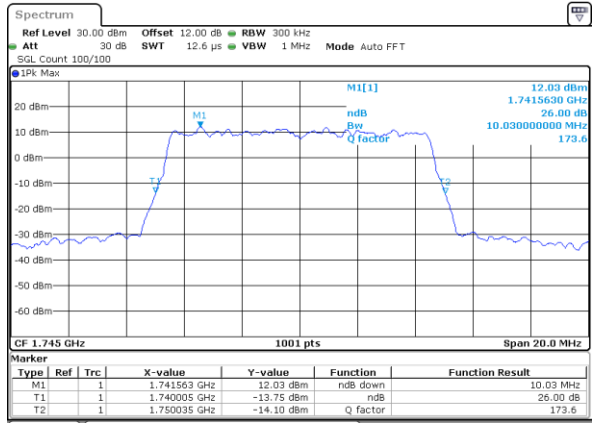
Date: 24.OCT.2021 05:07:08

Middle Channel / 5MHz / 256QAM



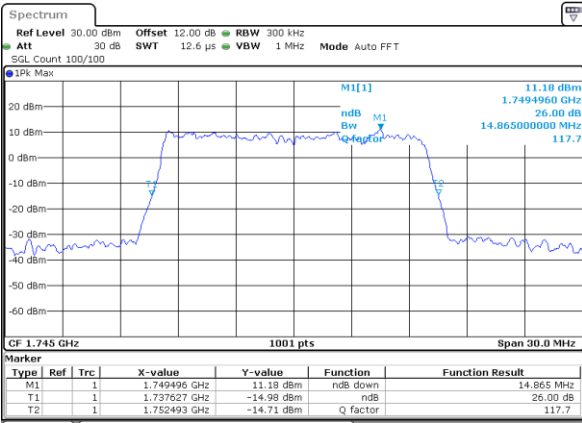
Date: 24.OCT.2021 05:21:24

Middle Channel / 10MHz / 256QAM



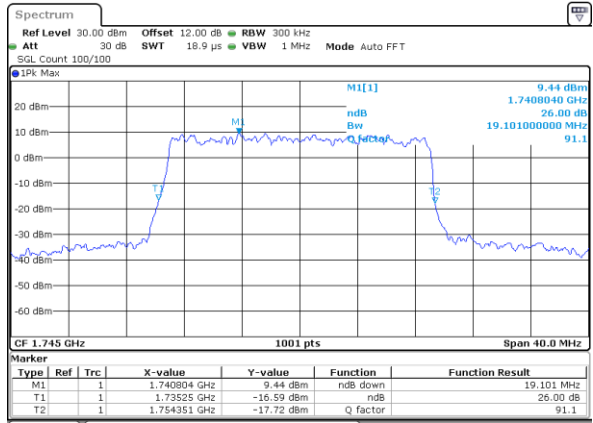
Date: 24.OCT.2021 05:26:59

Middle Channel / 15MHz / 256QAM



Date: 24.OCT.2021 05:32:20

Middle Channel / 20MHz / 256QAM



Date: 24.OCT.2021 05:40:10





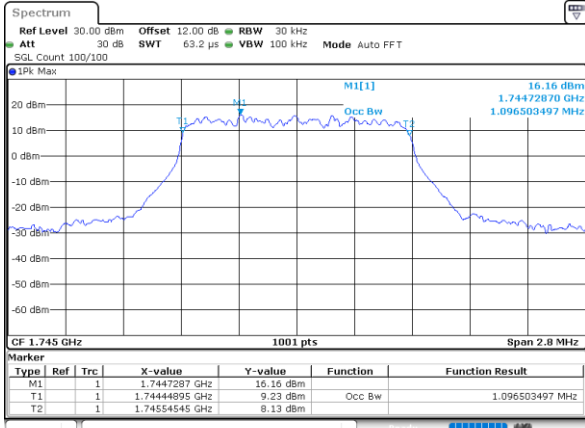
Occupied Bandwidth

Mode	LTE Band 66 : 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	1.10	1.10	2.73	2.72	4.52	4.52	8.99	9.09	13.46	13.49	17.94	17.94
Mode	LTE Band 66 : 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	1.10	1.10	2.75	2.75	4.49	4.48	9.03	9.01	13.46	13.46	18.02	17.98

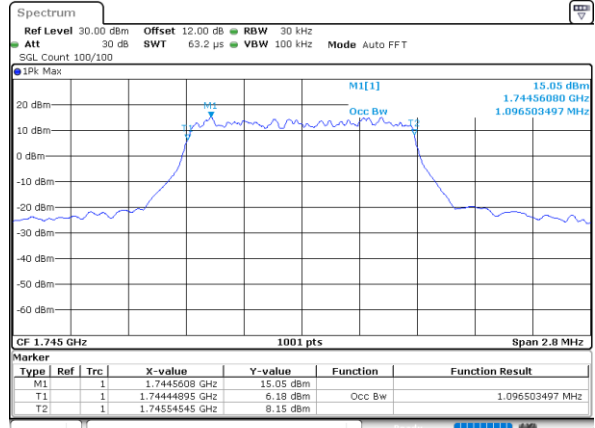


LTE Band 66

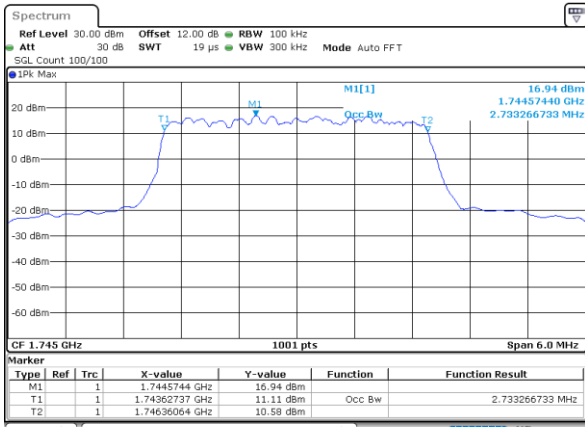
Middle Channel / 1.4MHz / QPSK



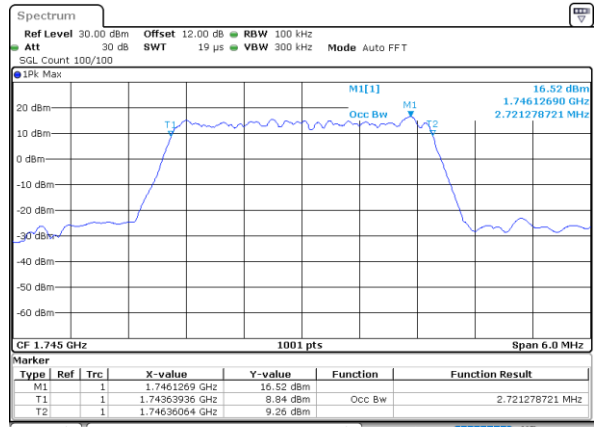
Middle Channel / 1.4MHz / 16QAM



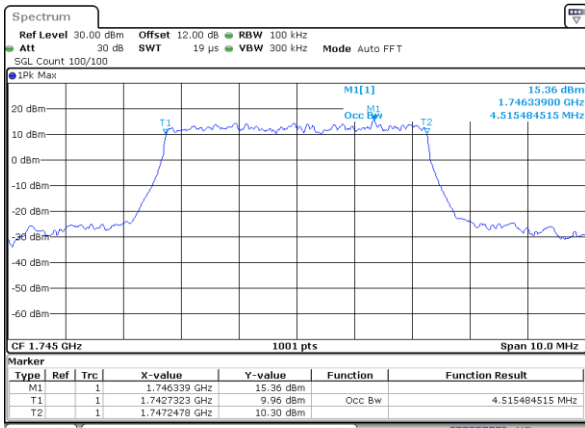
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM

