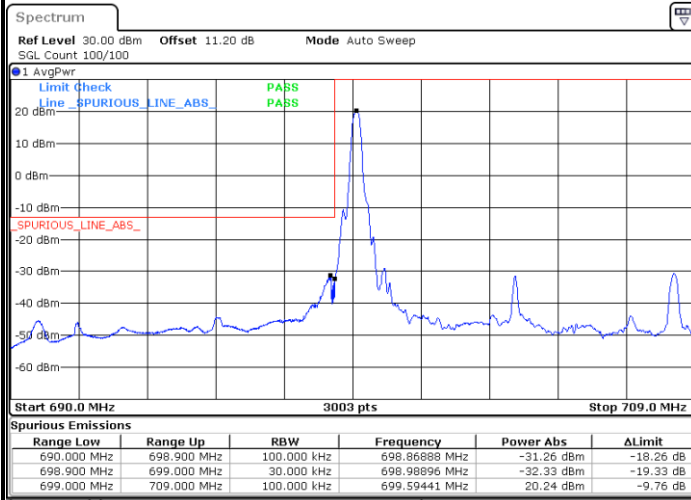


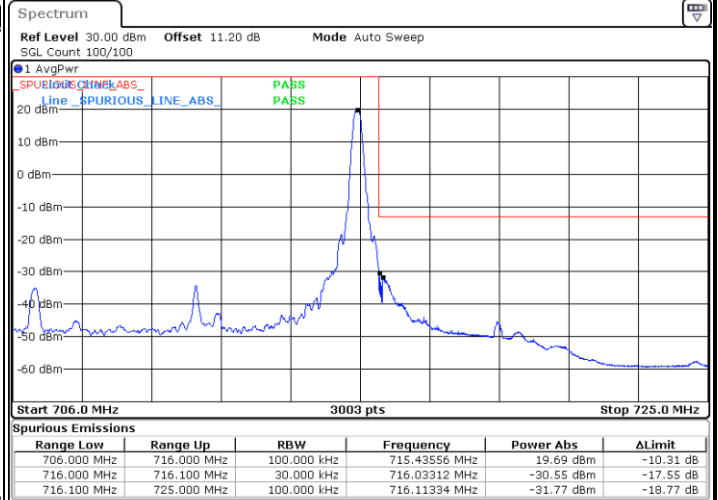


LTE Band 12 / 10MHz / 16QAM

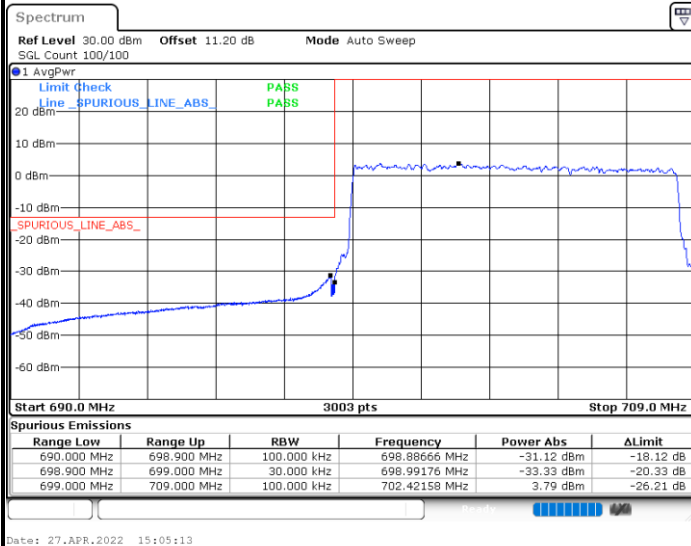
Lowest Band Edge / 1 RB



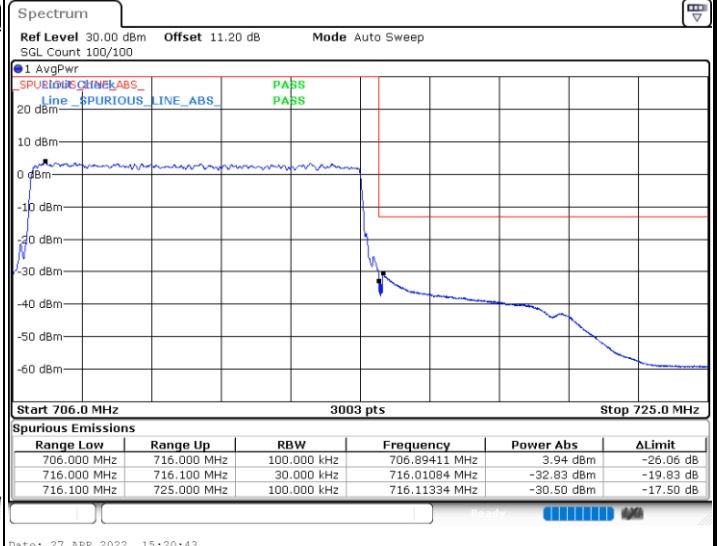
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



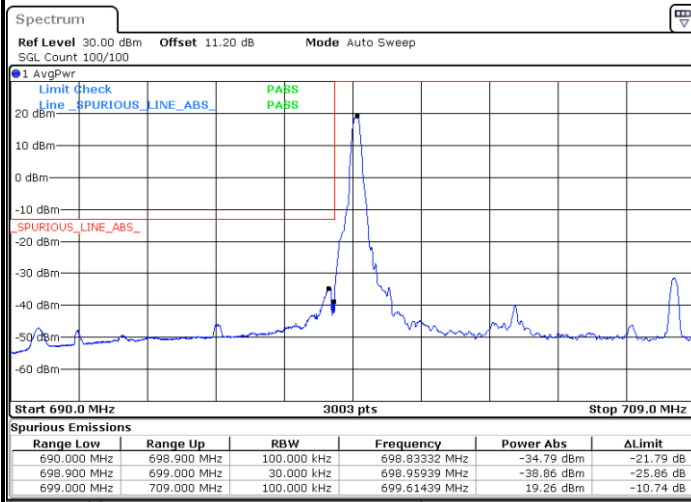
Highest Band Edge / Full RB



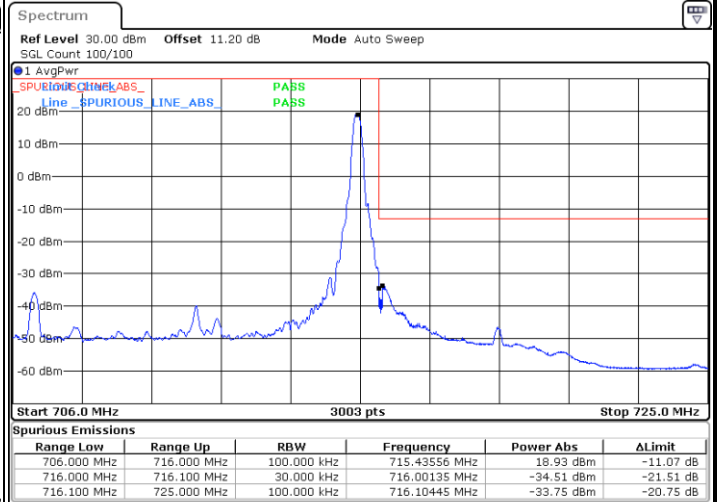


LTE Band 12 / 10MHz / 64QAM

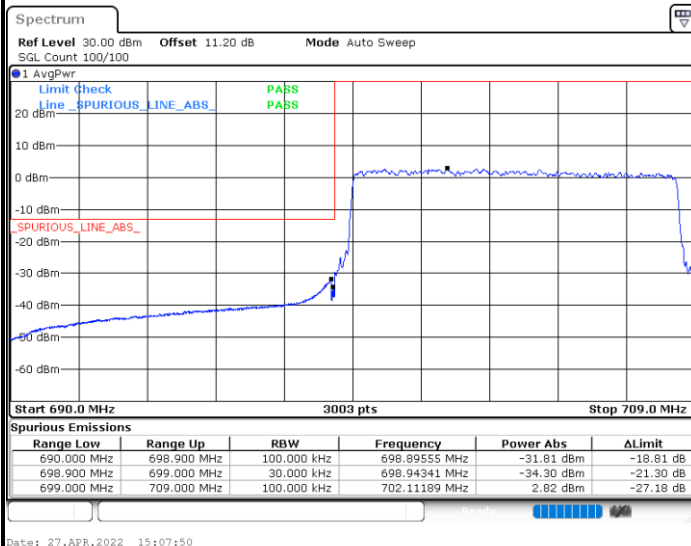
Lowest Band Edge / 1 RB



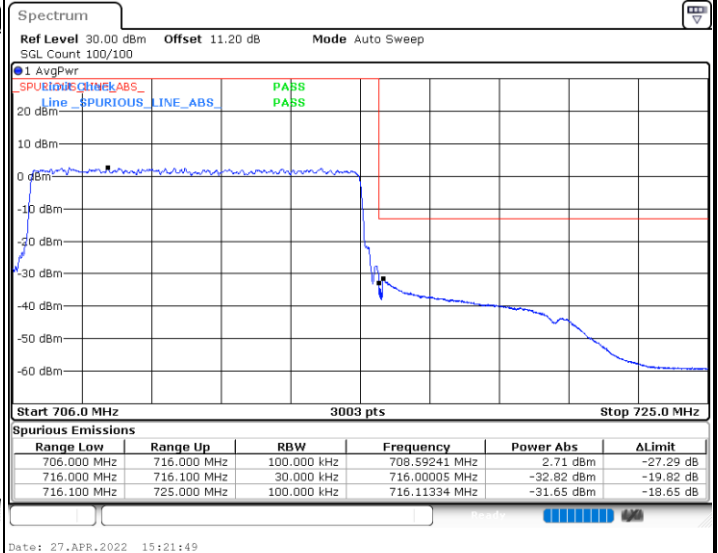
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



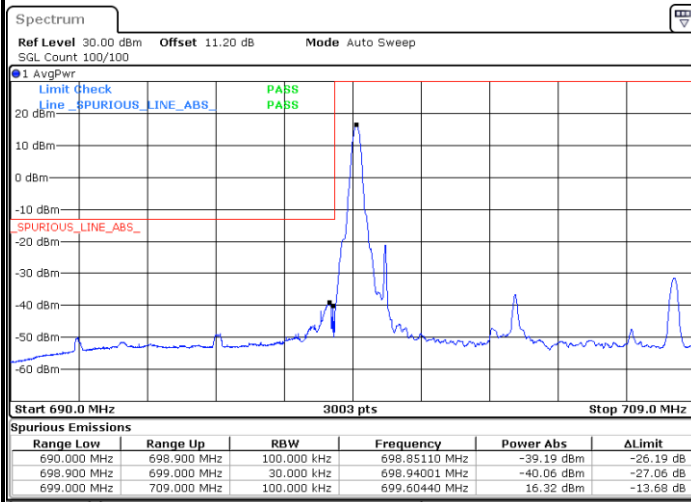
Highest Band Edge / Full RB



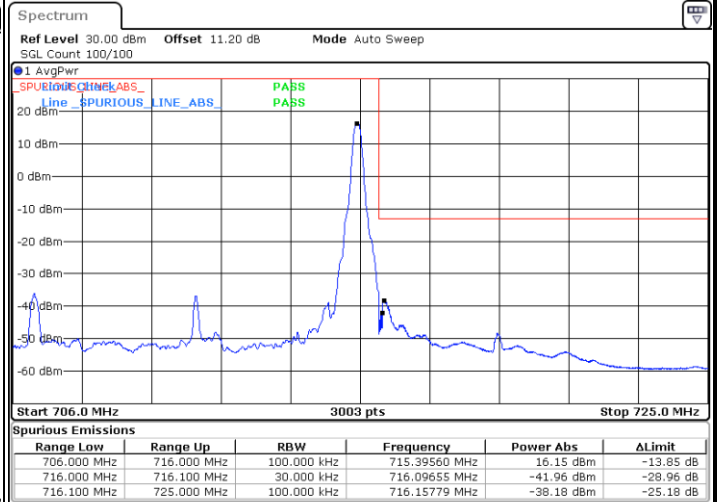


LTE Band 12 / 10MHz / 256QAM

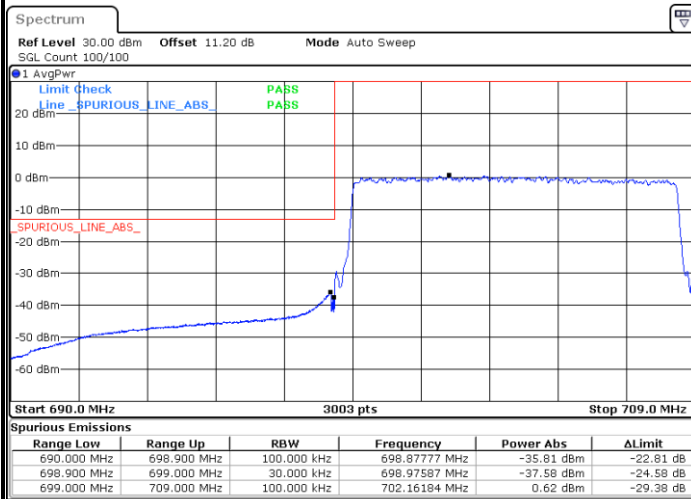
Lowest Band Edge / 1 RB



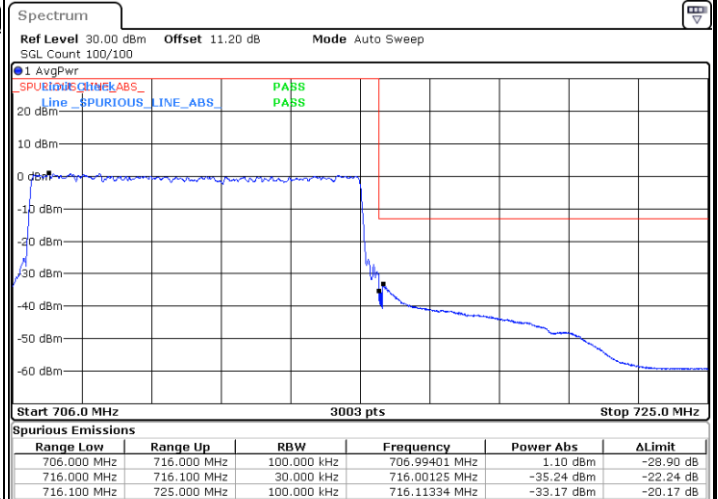
Highest Band Edge / 1 RB

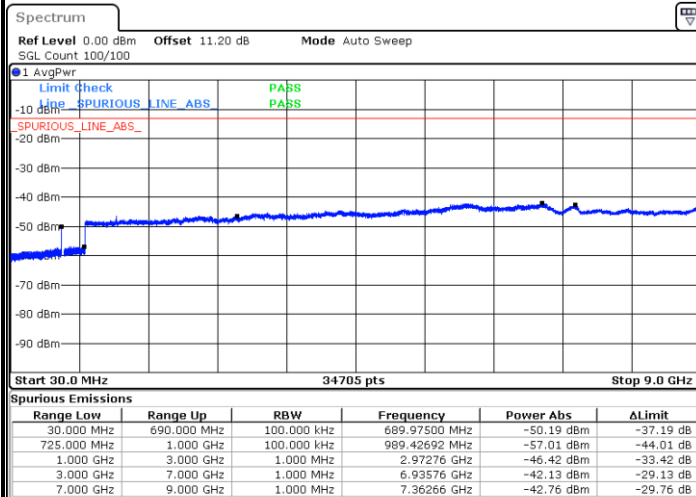


Lowest Band Edge / Full RB

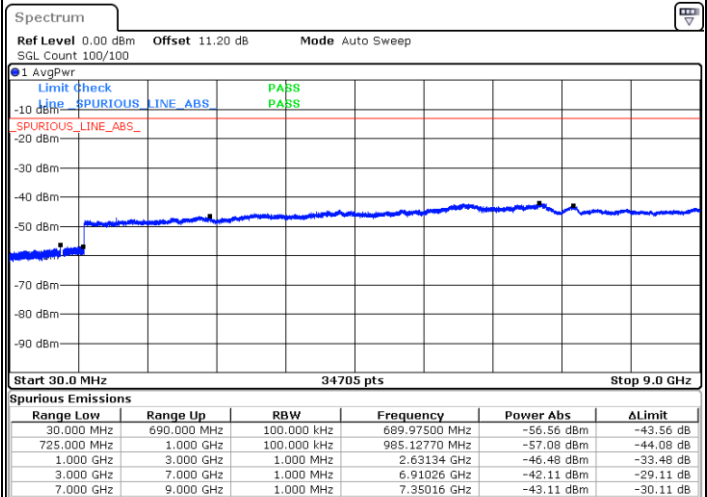


Highest Band Edge / Full RB

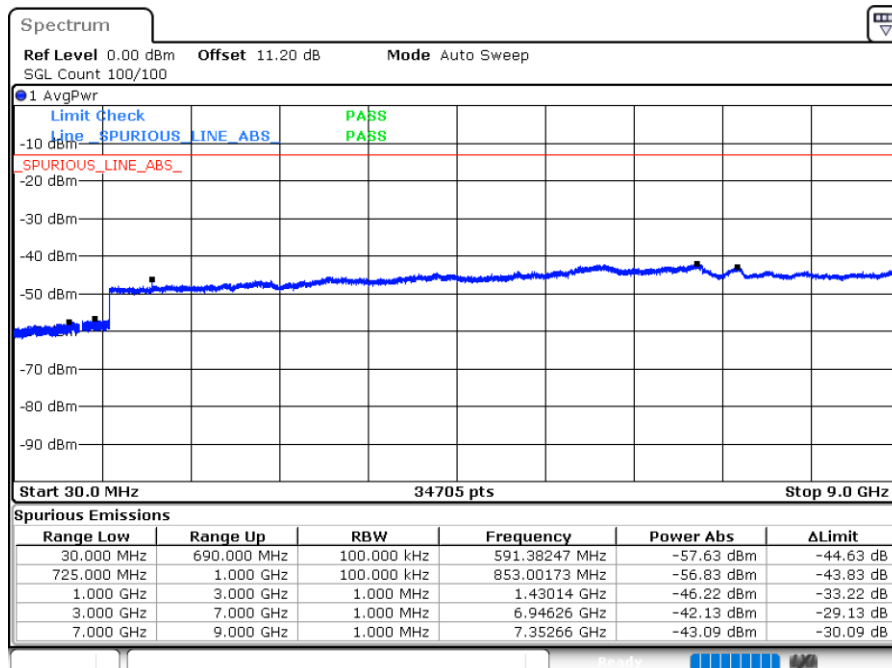


**Conducted Spurious Emission****LTE Band 12 / 1.4MHz****Lowest Channel / QPSK**

Date: 27.APR.2022 13:44:27

Middle Channel / QPSK

Date: 27.APR.2022 13:57:36

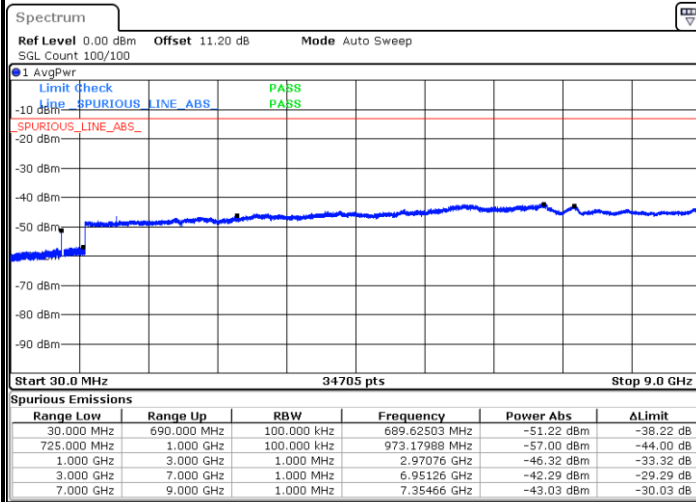
Highest Channel / QPSK

Date: 27.APR.2022 13:58:51

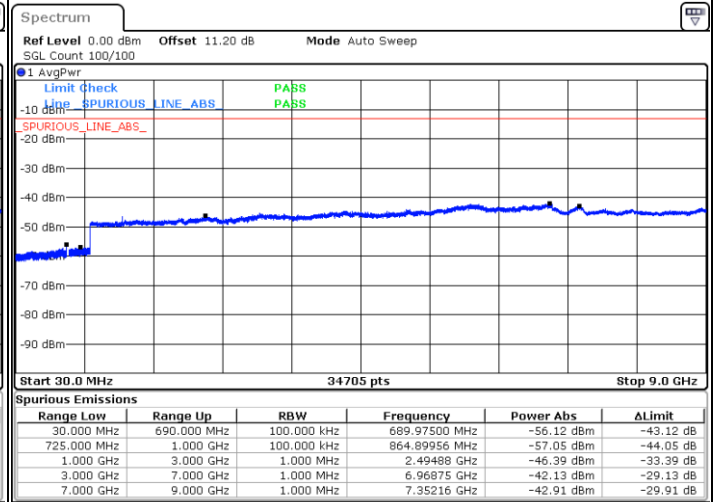


LTE Band 12 / 3MHz

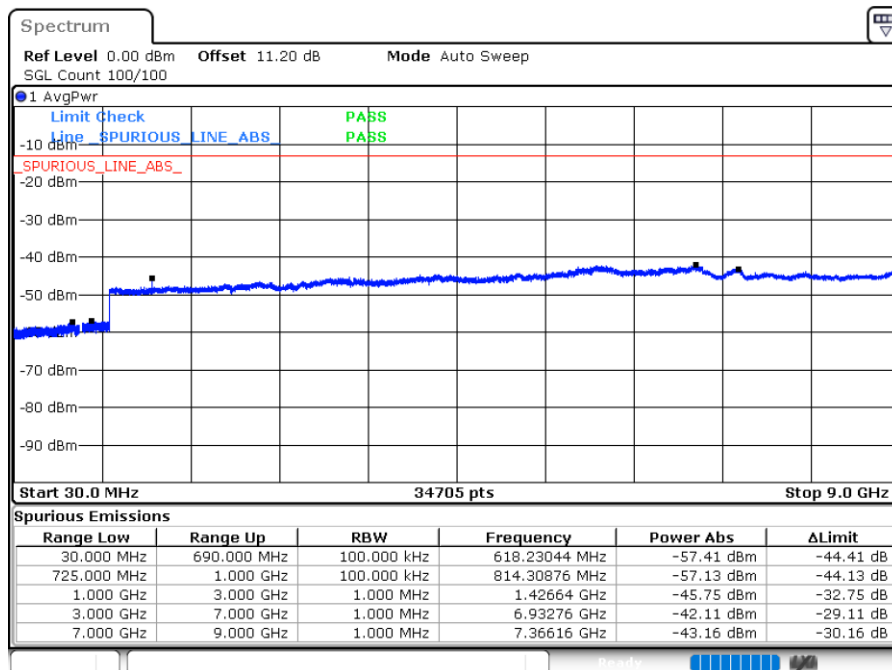
Lowest Channel / QPSK



Middle Channel / QPSK



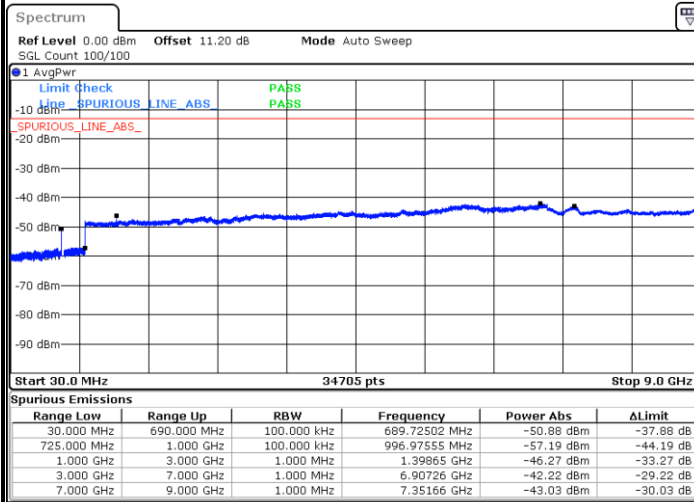
Highest Channel / QPSK





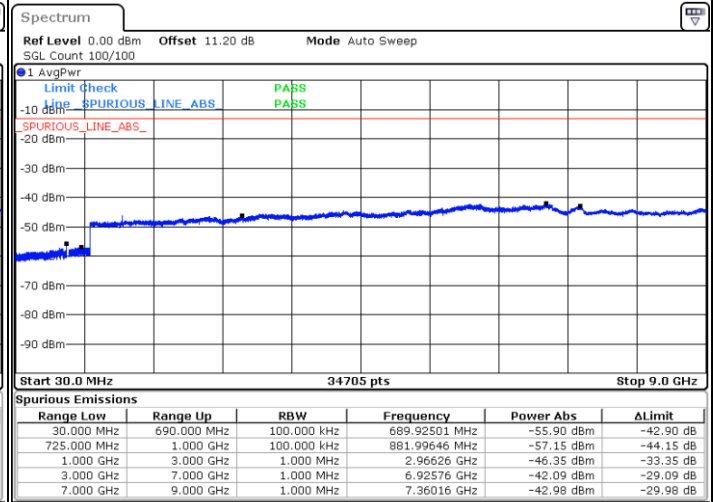
LTE Band 12 / 5MHz

Lowest Channel / QPSK



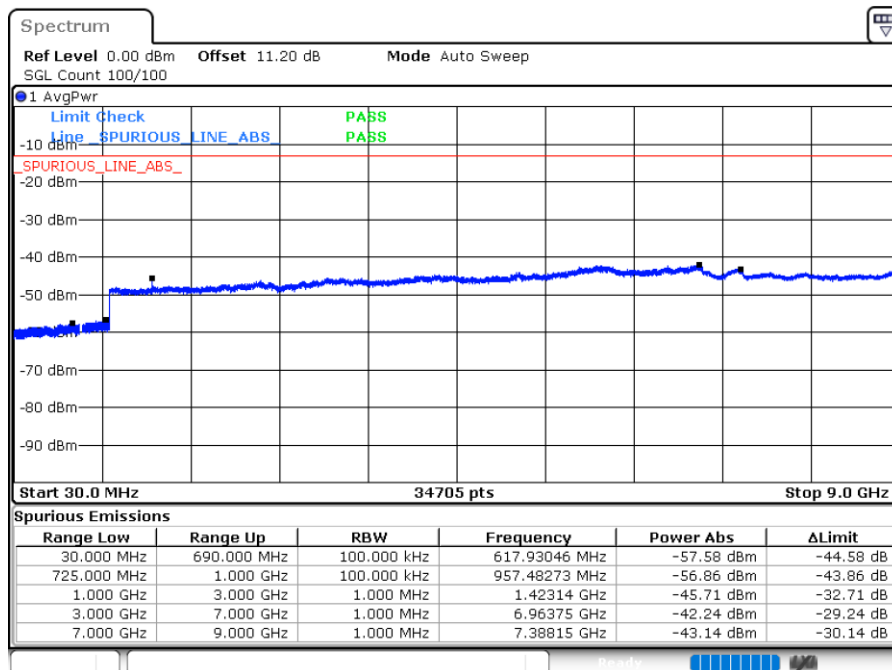
Date: 27.APR.2022 14:35:08

Middle Channel / QPSK



Date: 27.APR.2022 14:46:46

Highest Channel / QPSK

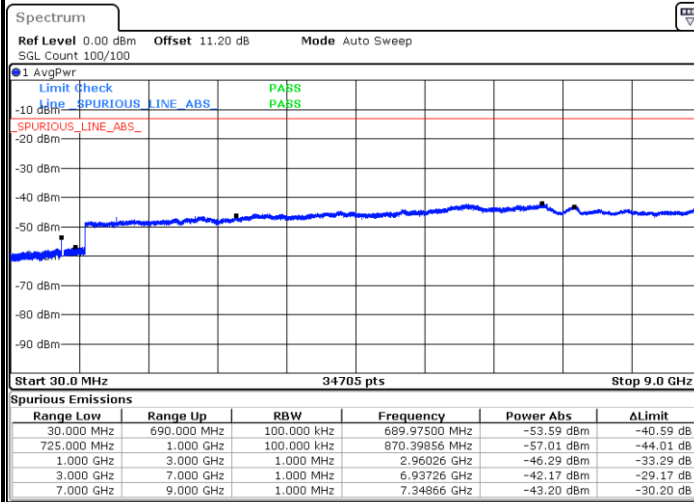


Date: 27.APR.2022 14:48:01



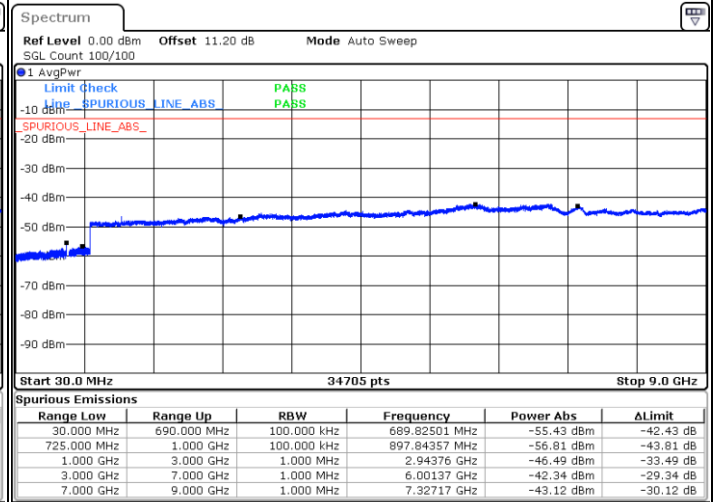
LTE Band 12 / 10MHz

Lowest Channel / QPSK



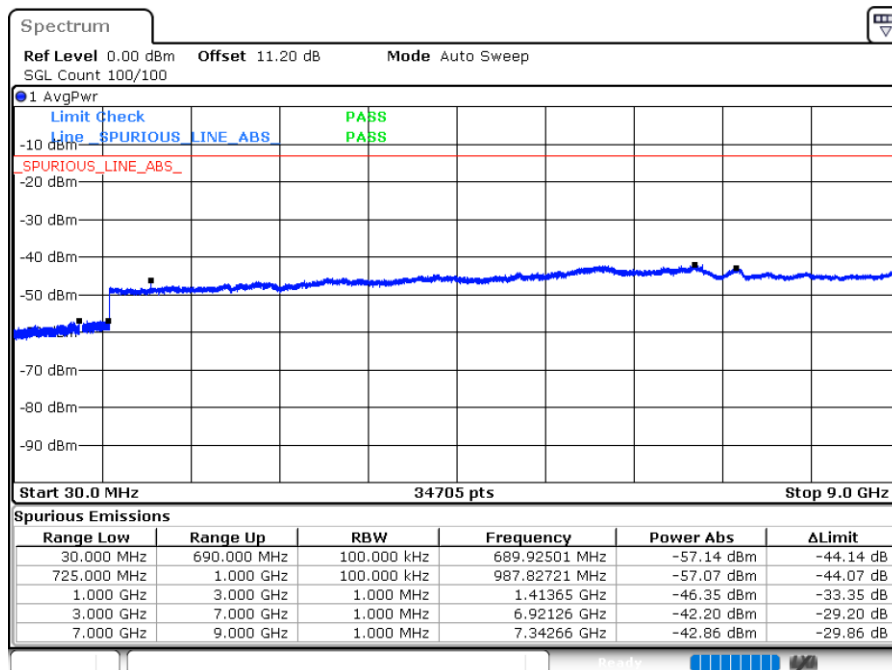
Date: 27.APR.2022 14:59:43

Middle Channel / QPSK



Date: 27.APR.2022 15:12:52

Highest Channel / QPSK



Date: 27.APR.2022 15:14:07

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0154	PASS
40	Normal Voltage	0.0034	
30	Normal Voltage	0.0154	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0209	
-10	Normal Voltage	0.0154	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0206	
20	Maximum Voltage	0.0137	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0126	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

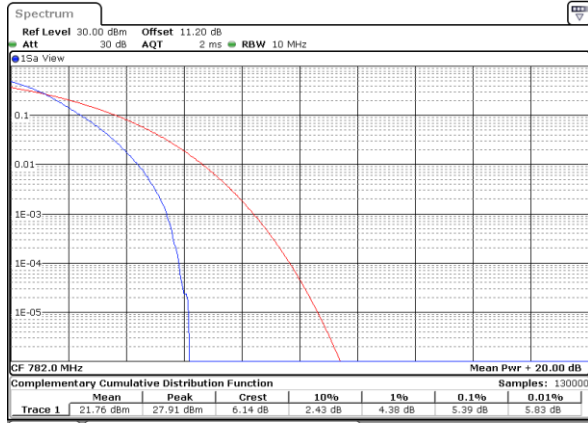
**LTE Band 13****Peak-to-Average Ratio**

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	5.39	6.20	6.43	7.07	PASS



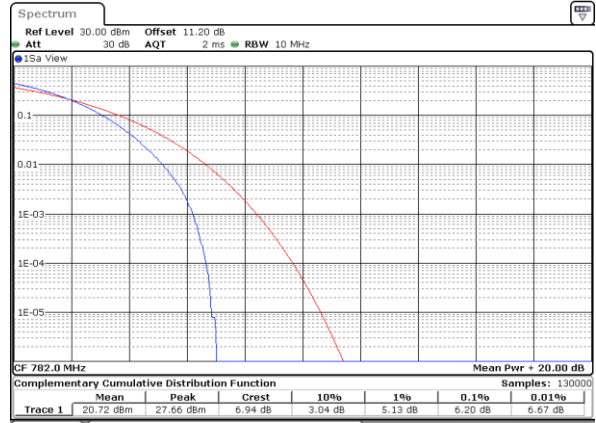
LTE Band 13 / 10MHz / QPSK

Middle Channel / Full RB



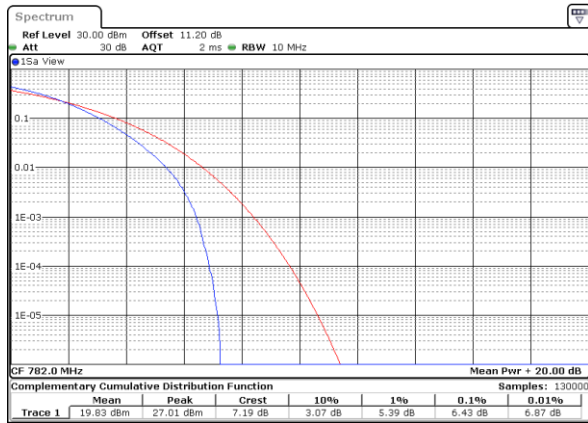
LTE Band 13 / 10MHz / 16QAM

Middle Channel / Full RB



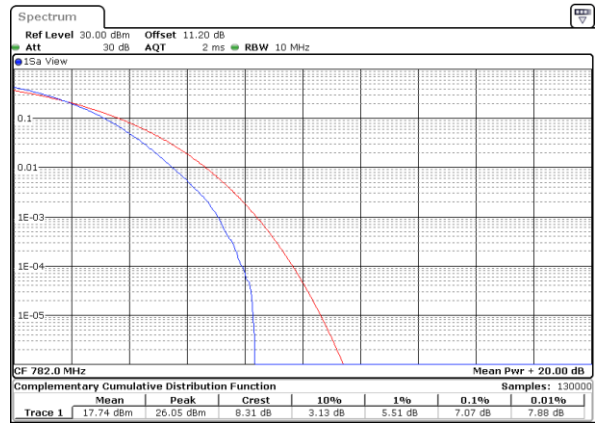
LTE Band 13 / 10MHz / 64QAM

Middle Channel / Full RB



LTE Band 13 / 10MHz / 256QAM

Middle Channel / Full RB



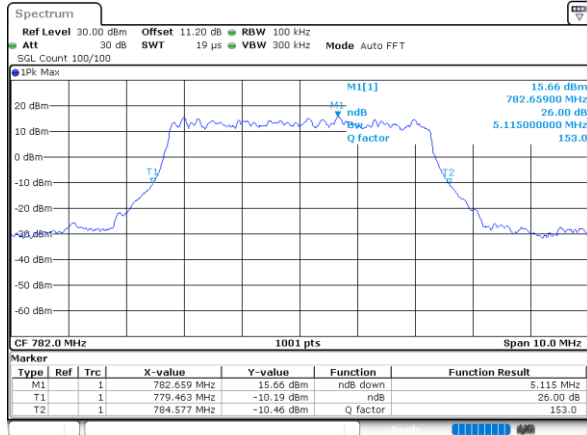
**26dB Bandwidth**

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	-	-	-	-	5.12	5.17	9.97	9.73	-	-	-	-
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	-	-	-	-	5.29	5.23	9.61	9.97	-	-	-	-



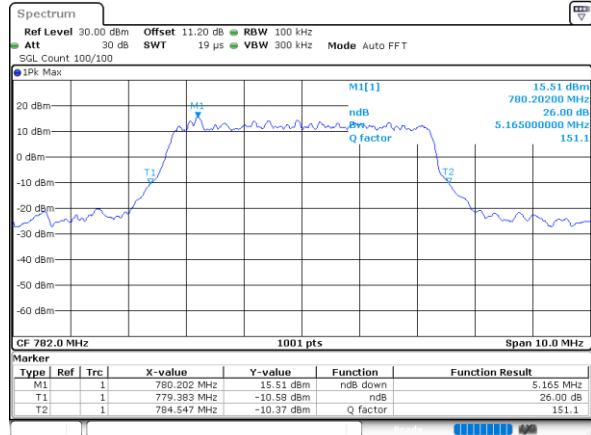
LTE Band 13

Middle Channel / 5MHz / QPSK



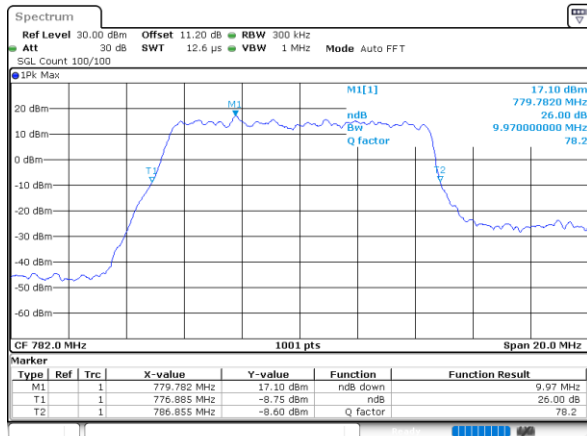
Date: 27.APR.2022 15:32:30

Middle Channel / 5MHz / 16QAM



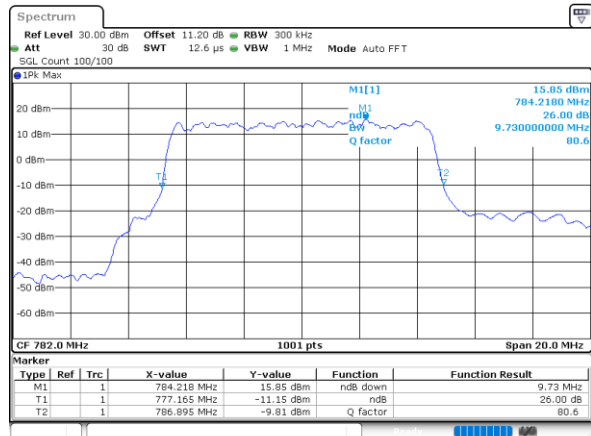
Date: 27.APR.2022 15:33:04

Middle Channel / 10MHz / QPSK



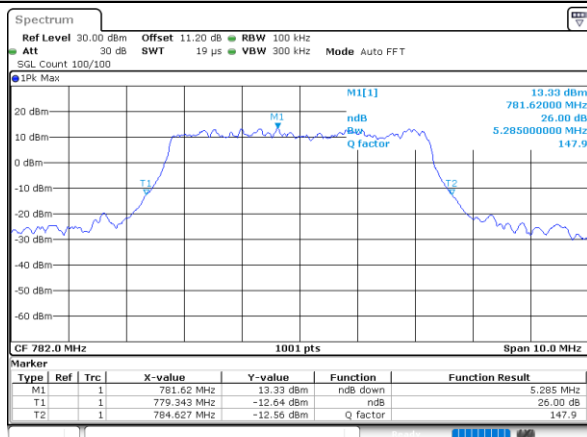
Date: 27.APR.2022 15:46:04

Middle Channel / 10MHz / 16QAM



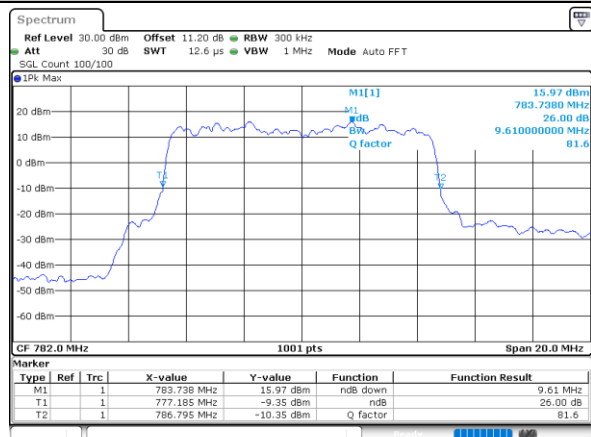
Date: 27.APR.2022 15:45:38

Middle Channel / 5MHz / 64QAM



Date: 27.APR.2022 15:42:03

Middle Channel / 10MHz / 64QAM

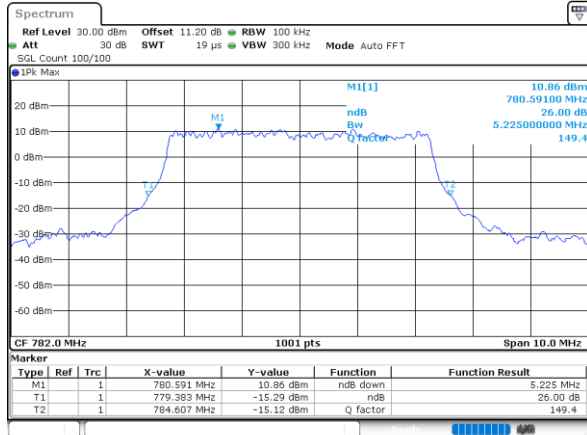


Date: 27.APR.2022 15:54:19



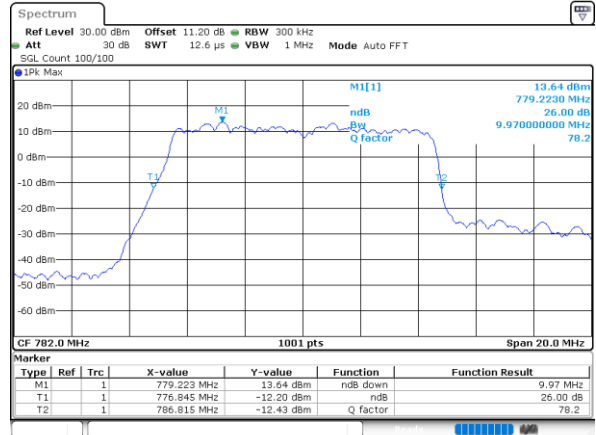
LTE Band 13

Middle Channel / 5MHz / 256QAM



Date: 27.APR.2022 16:01:31

Middle Channel / 10MHz / 256QAM



Date: 27.APR.2022 16:04:40

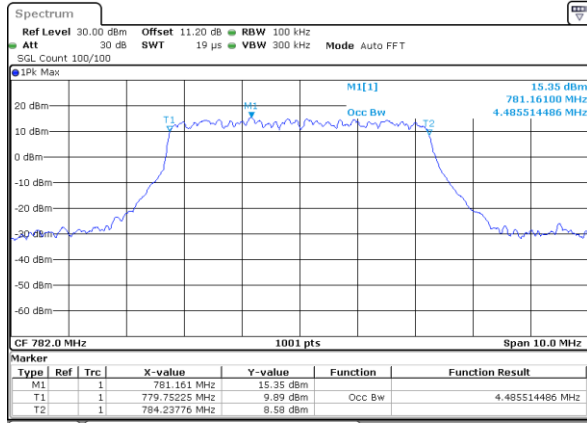
**Occupied Bandwidth**

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	9.03	9.09	-	-	-	-
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	-	-	-	-	4.51	4.52	9.03	9.05	-	-	-	-



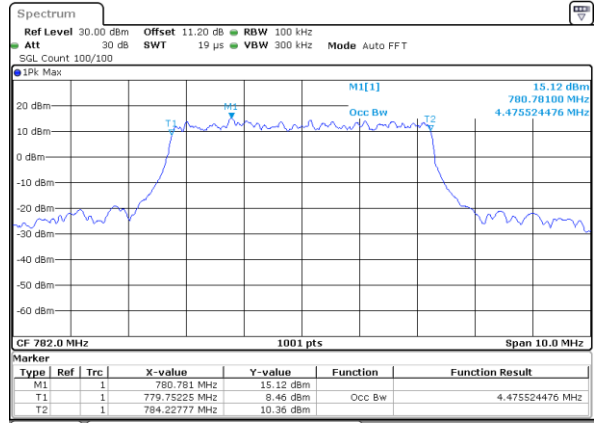
LTE Band 13

Middle Channel / 5MHz / QPSK



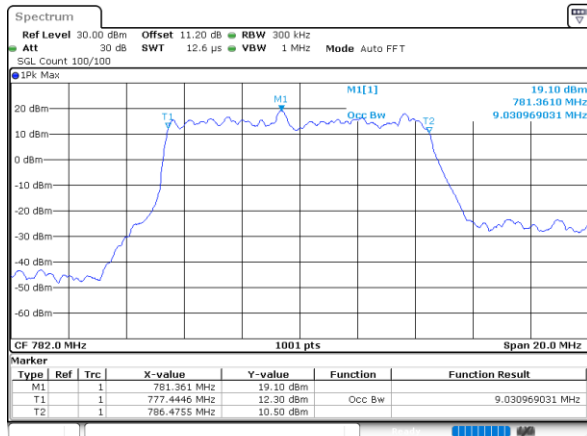
Date: 27.APR.2022 15:33:44

Middle Channel / 5MHz / 16QAM



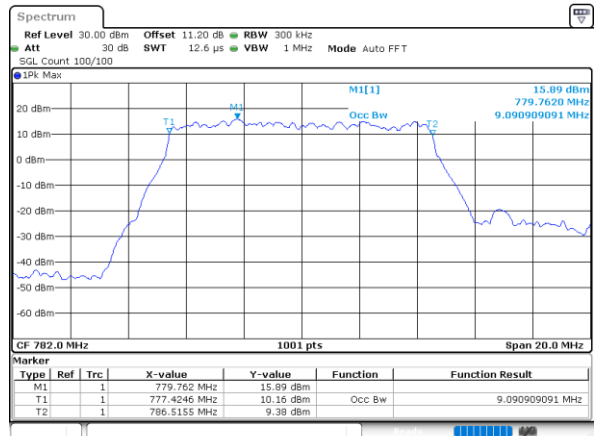
Date: 27.APR.2022 15:33:18

Middle Channel / 10MHz / QPSK



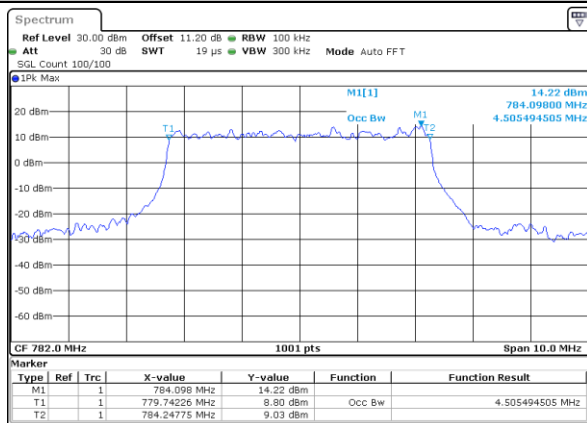
Date: 27.APR.2022 15:44:58

Middle Channel / 10MHz / 16QAM



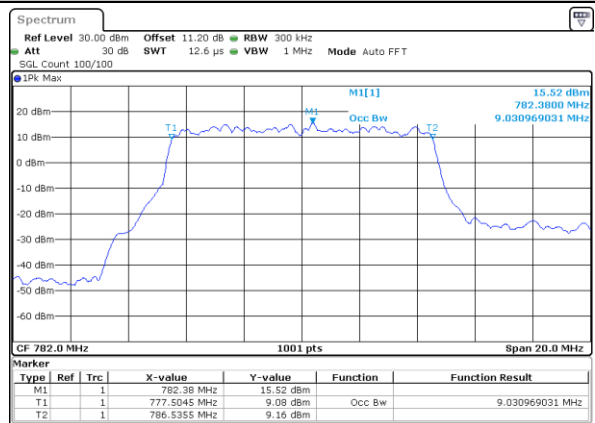
Date: 27.APR.2022 15:45:24

Middle Channel / 5MHz / 64QAM



Date: 27.APR.2022 15:42:17

Middle Channel / 10MHz / 64QAM

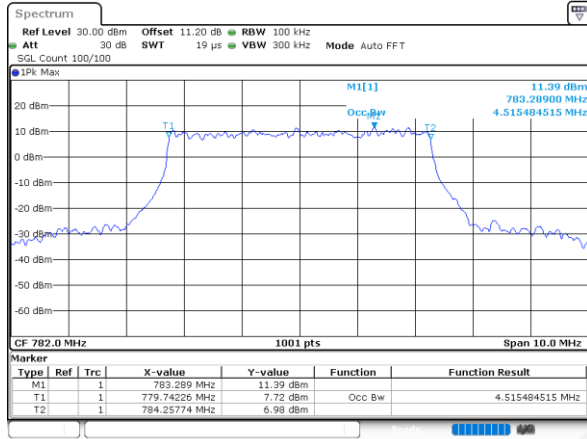


Date: 27.APR.2022 15:54:05

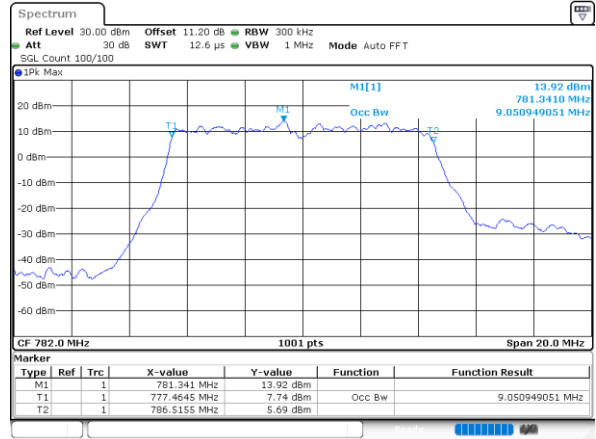


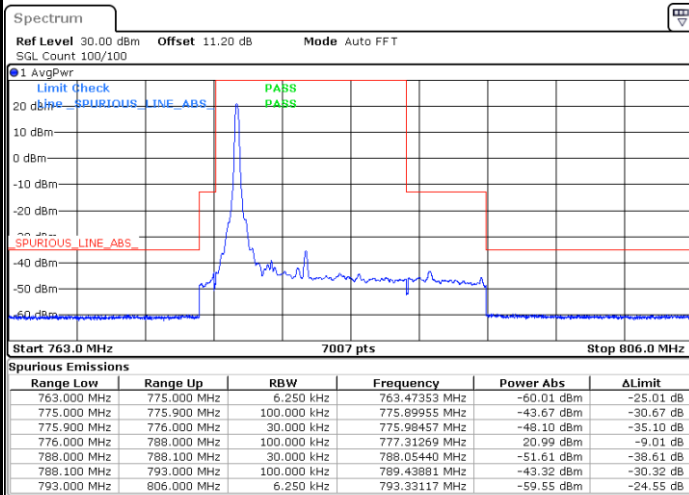
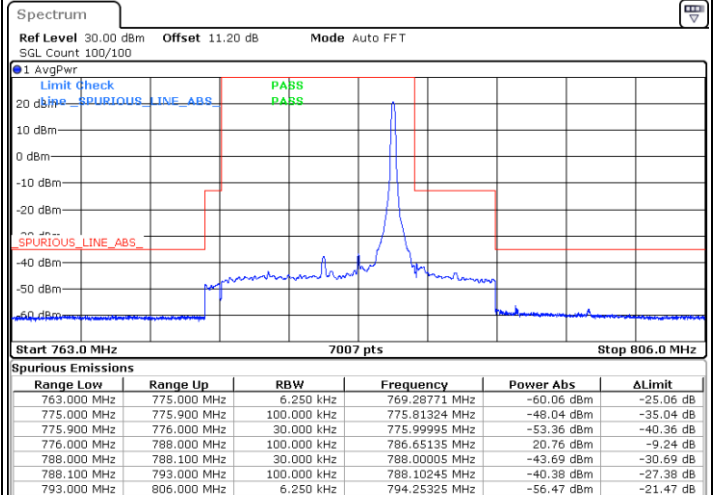
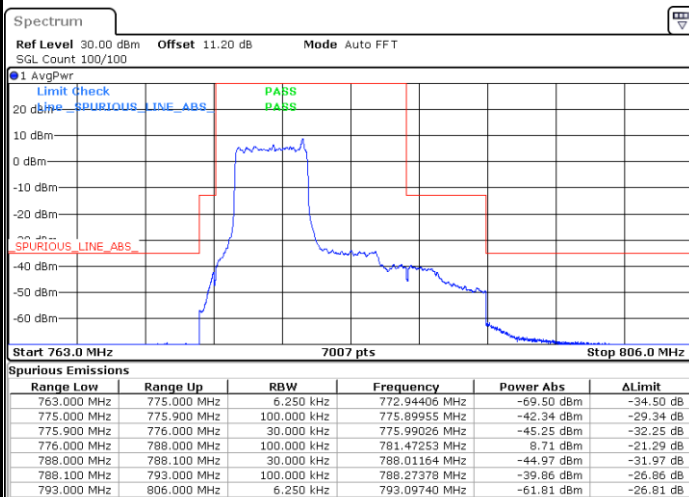
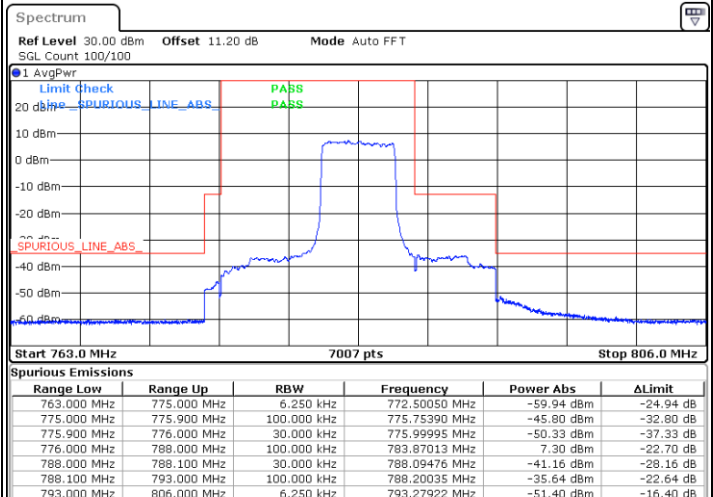
LTE Band 13

Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM

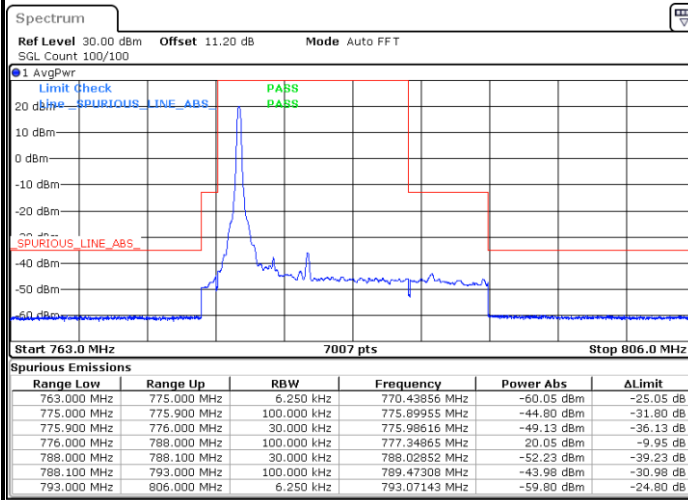


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



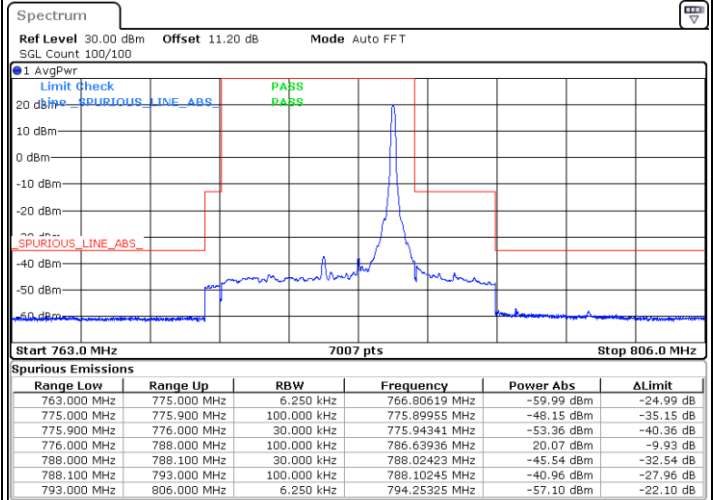
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



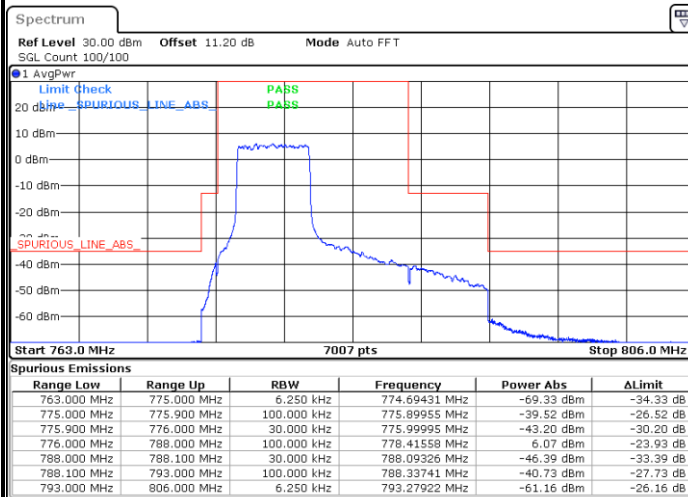
Date: 27.APR.2022 16:13:26

Highest Band Edge / 1 RB



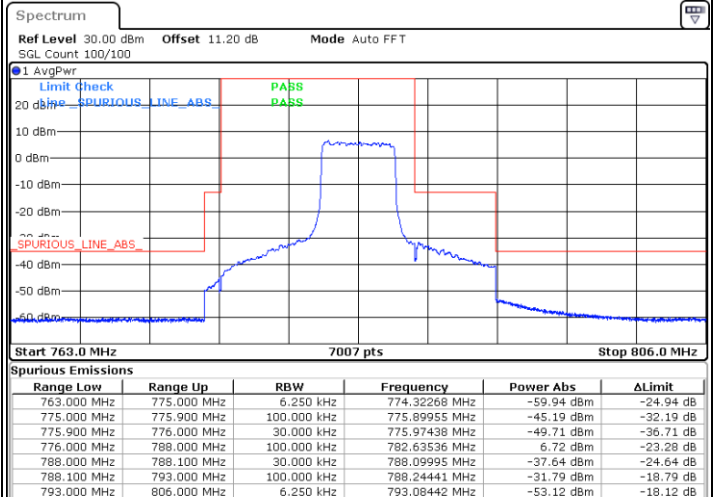
Date: 27.APR.2022 16:17:51

Lowest Band Edge / Full RB



Date: 27.APR.2022 15:27:42

Highest Band Edge / Full RB

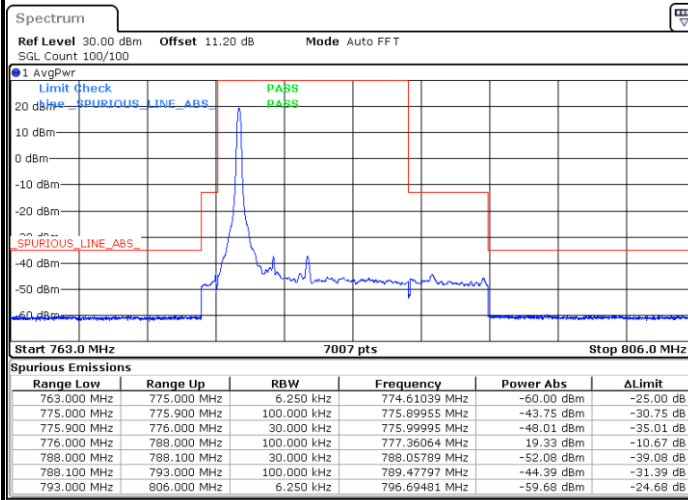


Date: 27.APR.2022 16:16:45



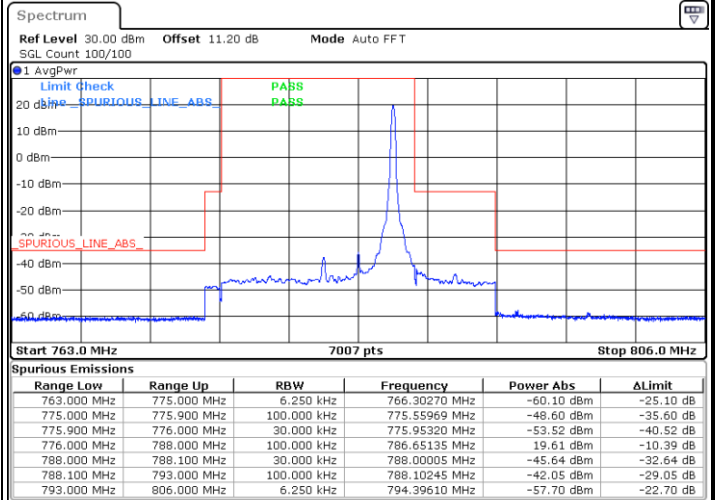
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



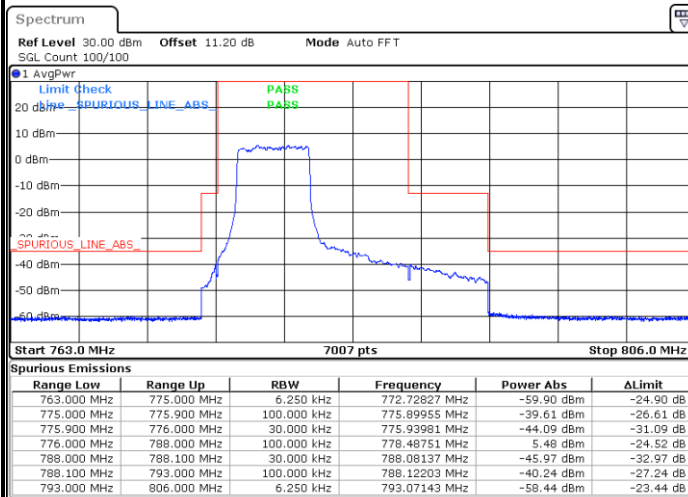
Date: 27.APR.2022 16:21:10

Highest Band Edge / 1 RB



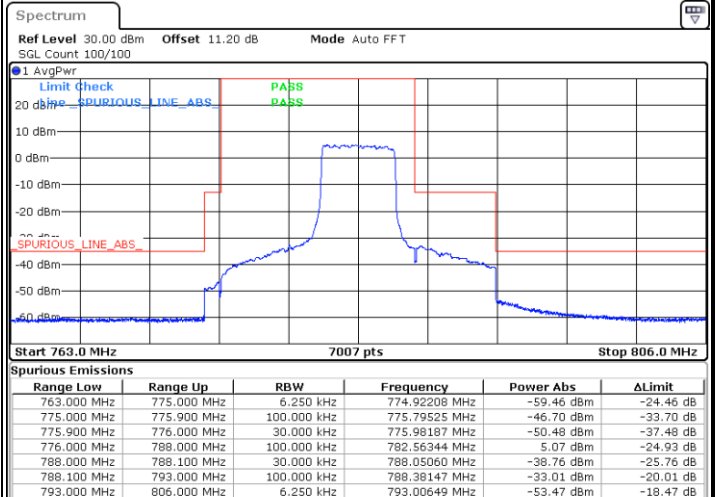
Date: 27.APR.2022 16:23:23

Lowest Band Edge / Full RB



Date: 27.APR.2022 16:20:04

Highest Band Edge / Full RB

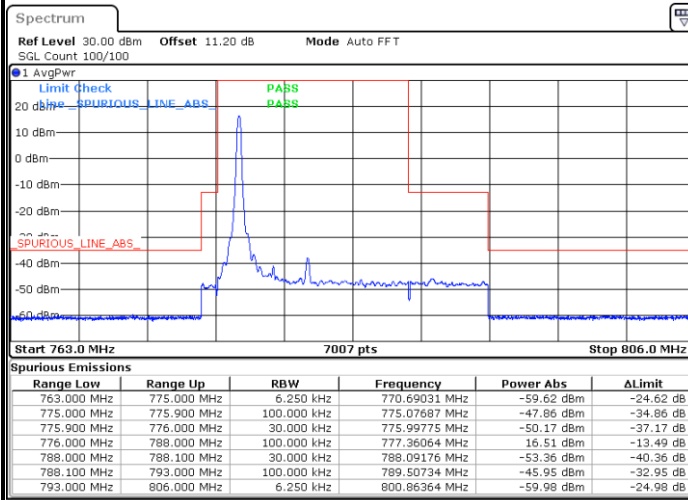


Date: 27.APR.2022 16:22:17



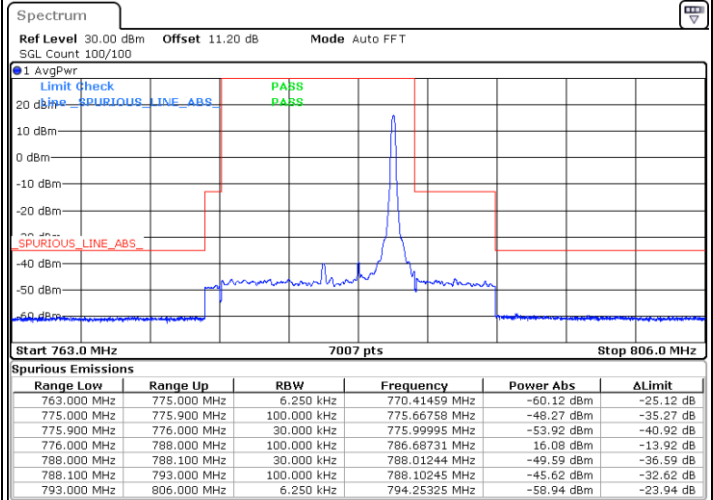
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



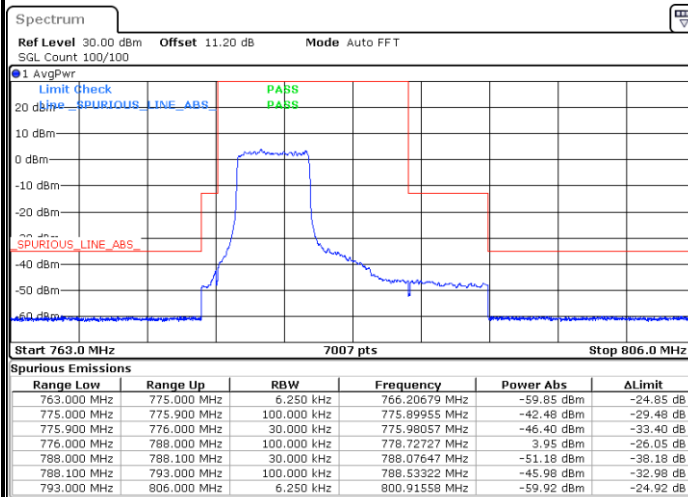
Date: 27.APR.2022 16:36:17

Highest Band Edge / 1 RB



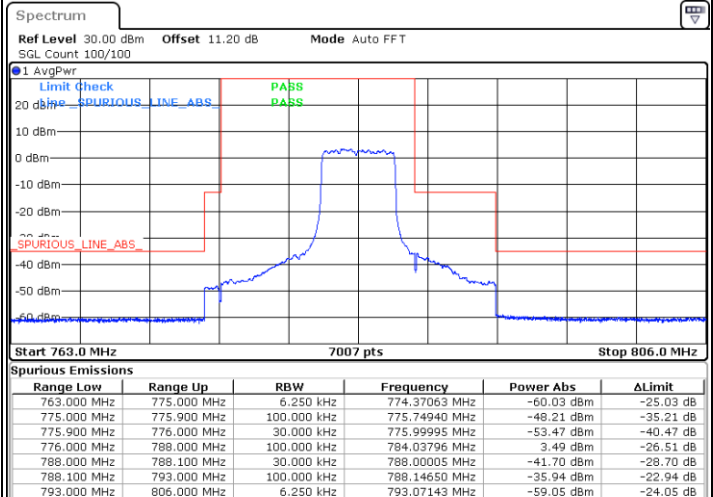
Date: 27.APR.2022 16:38:30

Lowest Band Edge / Full RB



Date: 27.APR.2022 16:35:11

Highest Band Edge / Full RB

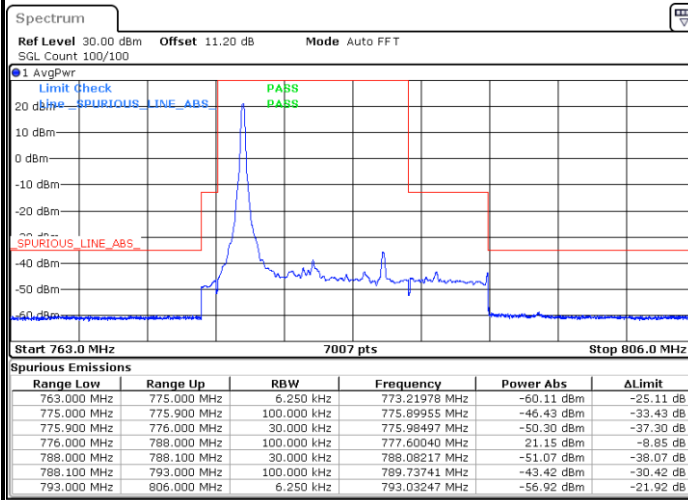


Date: 27.APR.2022 16:37:24



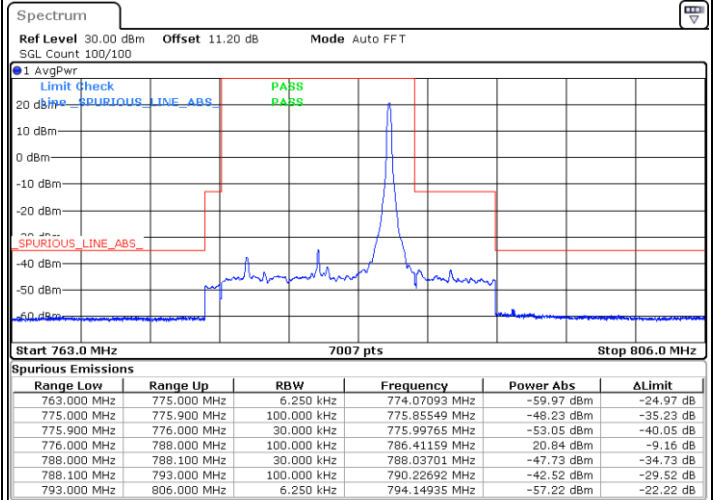
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



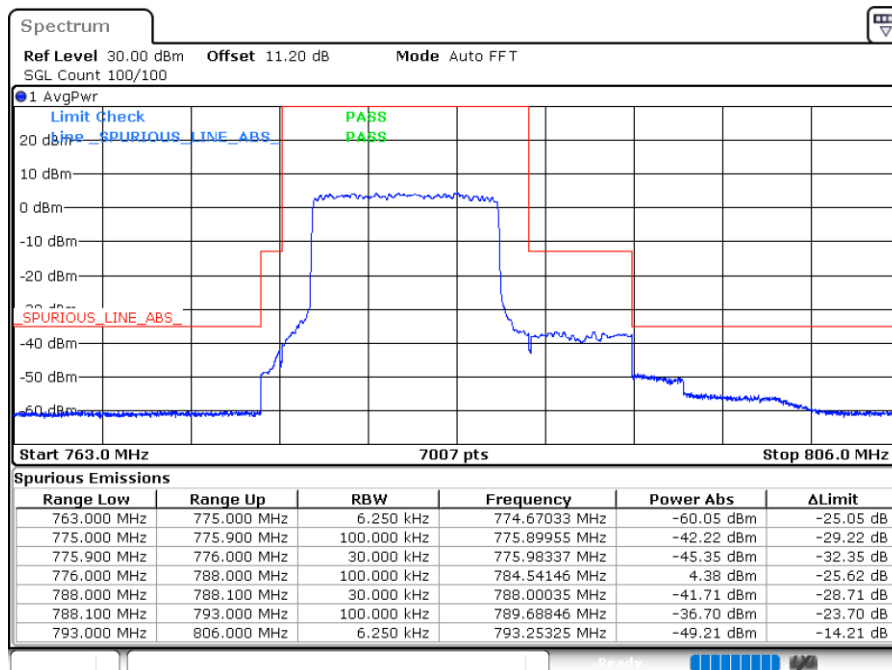
Date: 27.APR.2022 16:27:48

Highest Band Edge / 1 RB



Date: 27.APR.2022 16:28:53

Band Edge / Full RB

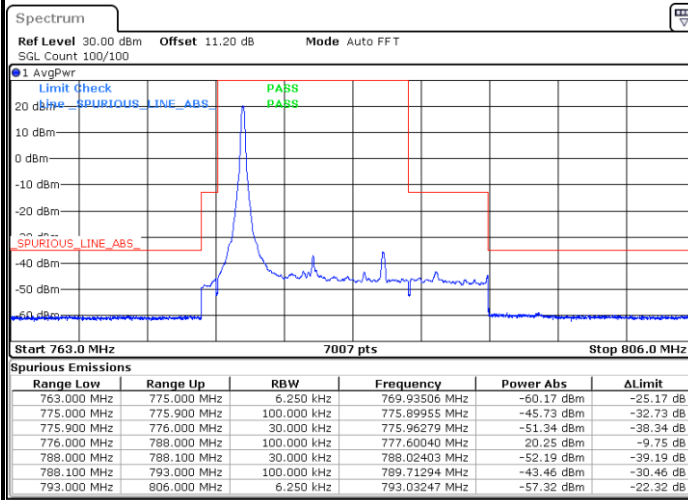


Date: 27.APR.2022 16:24:32



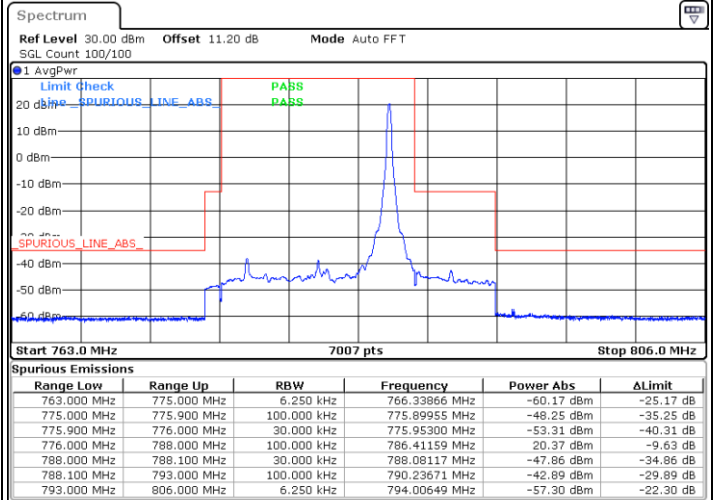
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



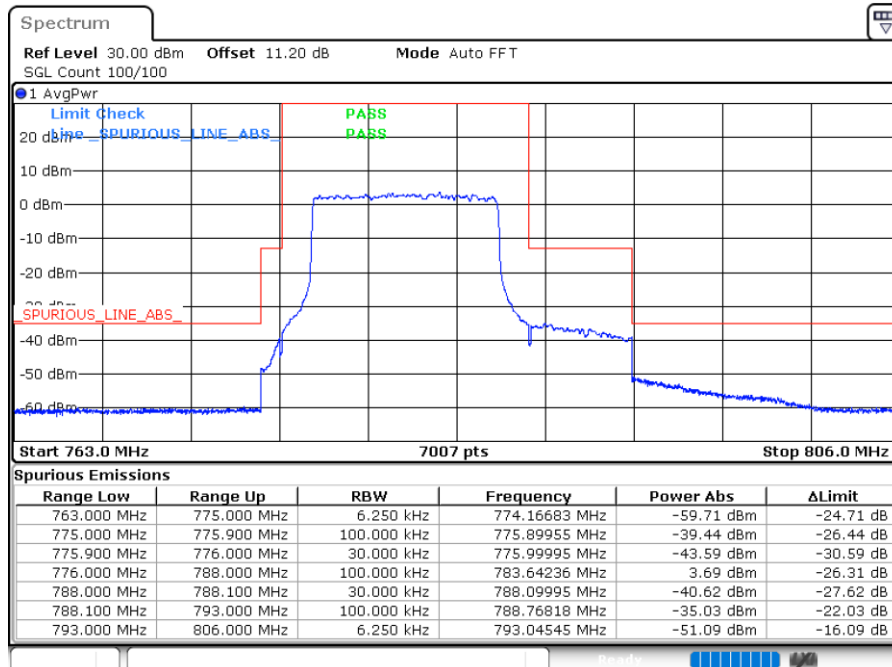
Date: 27.APR.2022 16:26:42

Highest Band Edge / 1 RB



Date: 27.APR.2022 16:29:59

Band Edge / Full RB

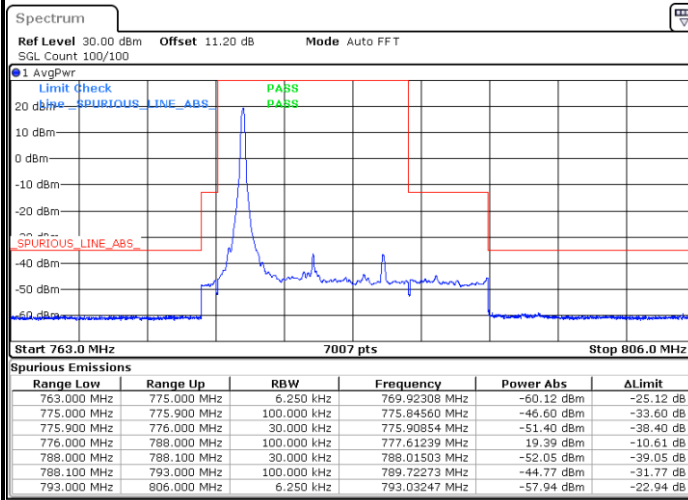


Date: 27.APR.2022 16:25:37



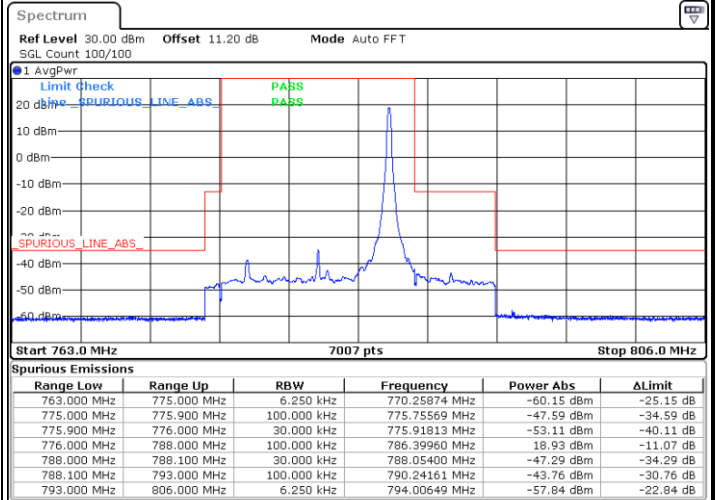
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



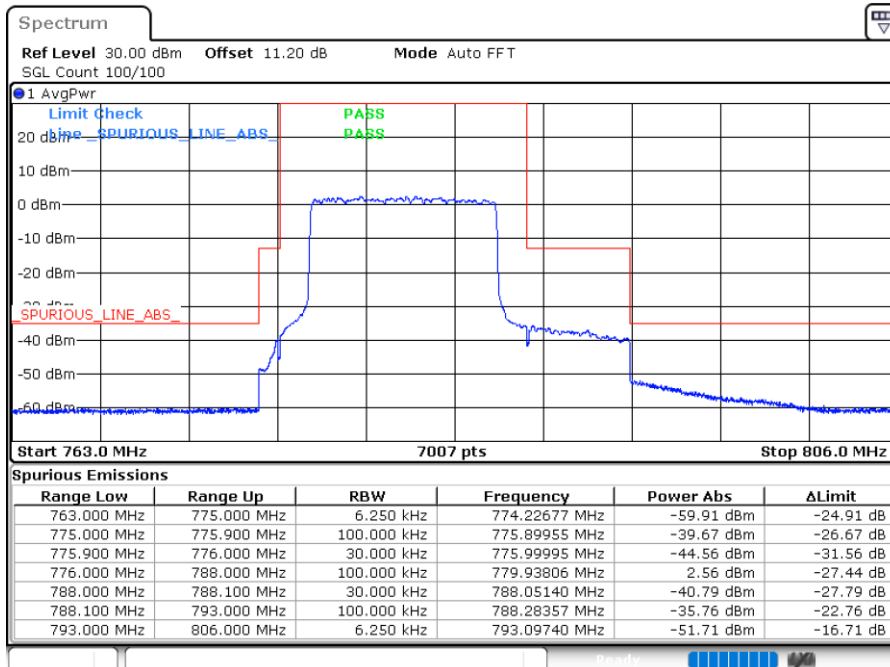
Date: 27.APR.2022 16:32:10

Highest Band Edge / 1 RB



Date: 27.APR.2022 16:33:15

Band Edge / Full RB

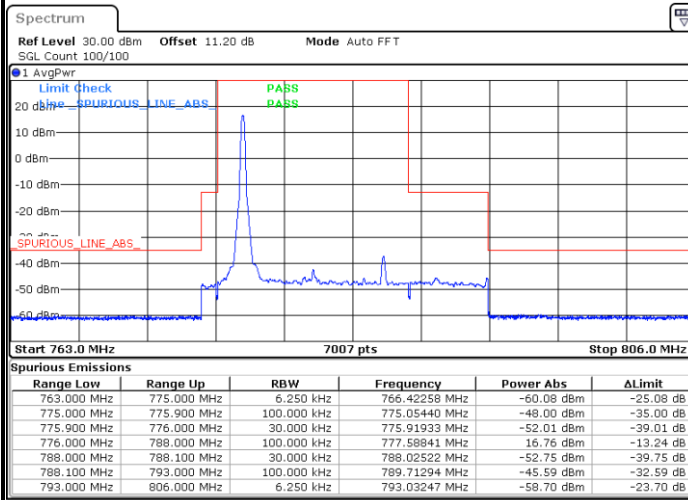


Date: 27.APR.2022 16:31:04



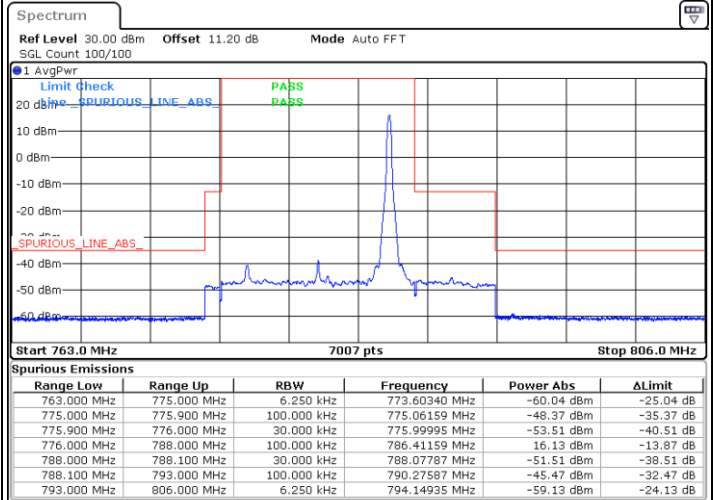
LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



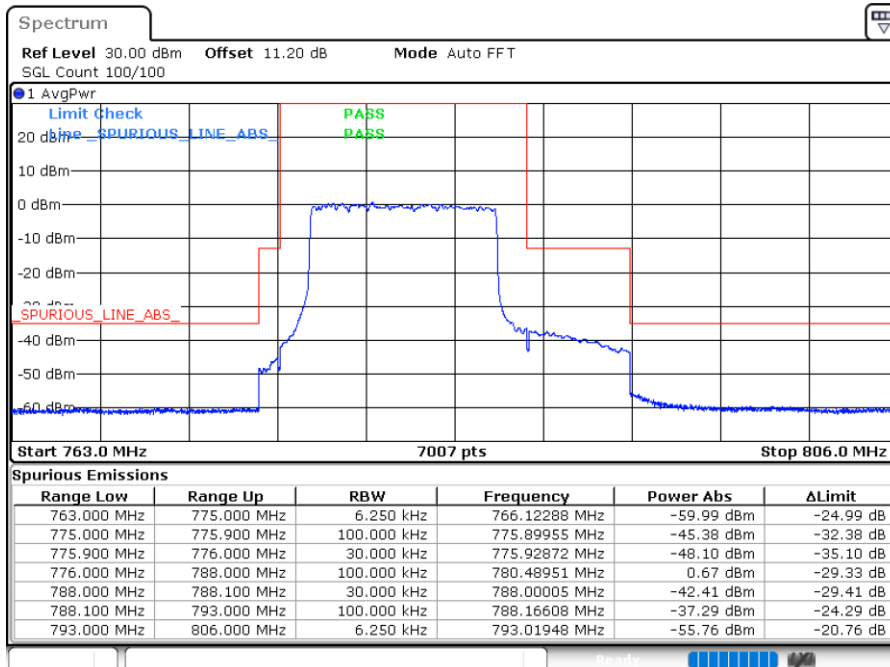
Date: 27.APR.2022 16:40:44

Highest Band Edge / 1 RB

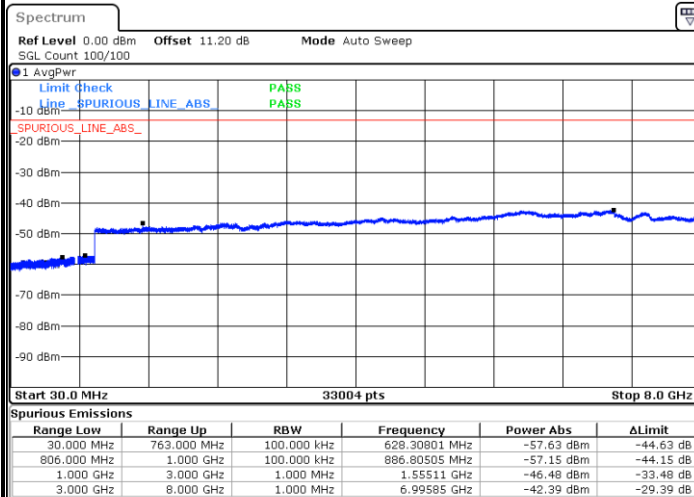


Date: 27.APR.2022 16:41:50

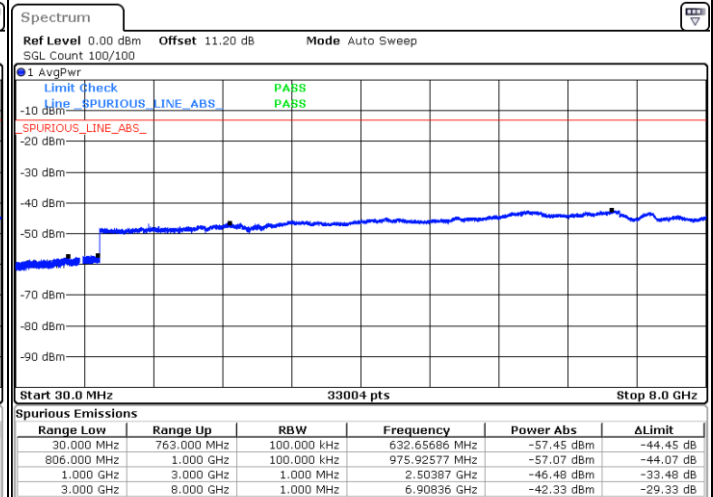
Band Edge / Full RB



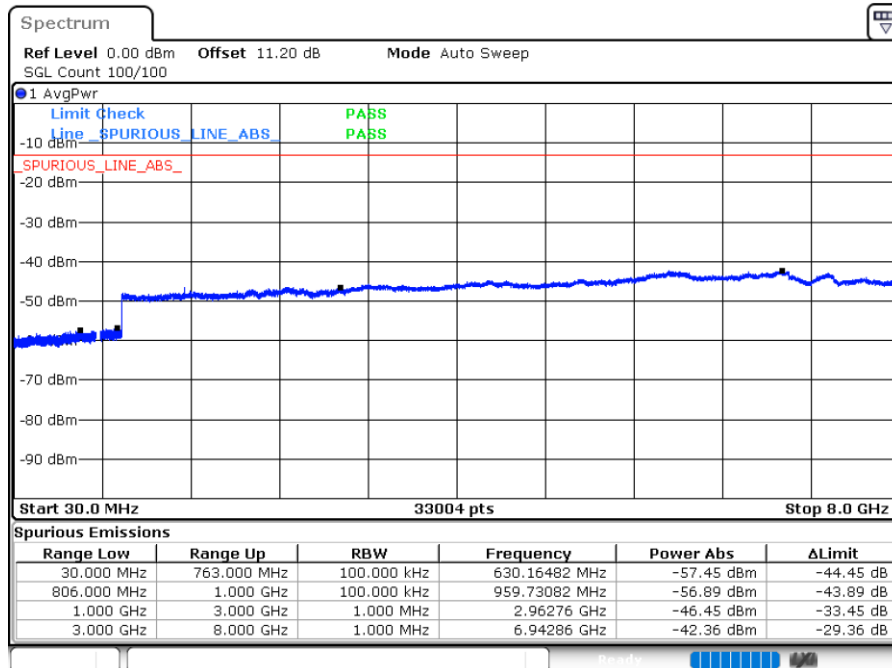
Date: 27.APR.2022 16:43:39

**Conducted Spurious Emission****LTE Band 13 / 5MHz****Lowest Channel / QPSK**

Date: 27.APR.2022 15:30:57

Middle Channel / QPSK

Date: 27.APR.2022 15:32:12

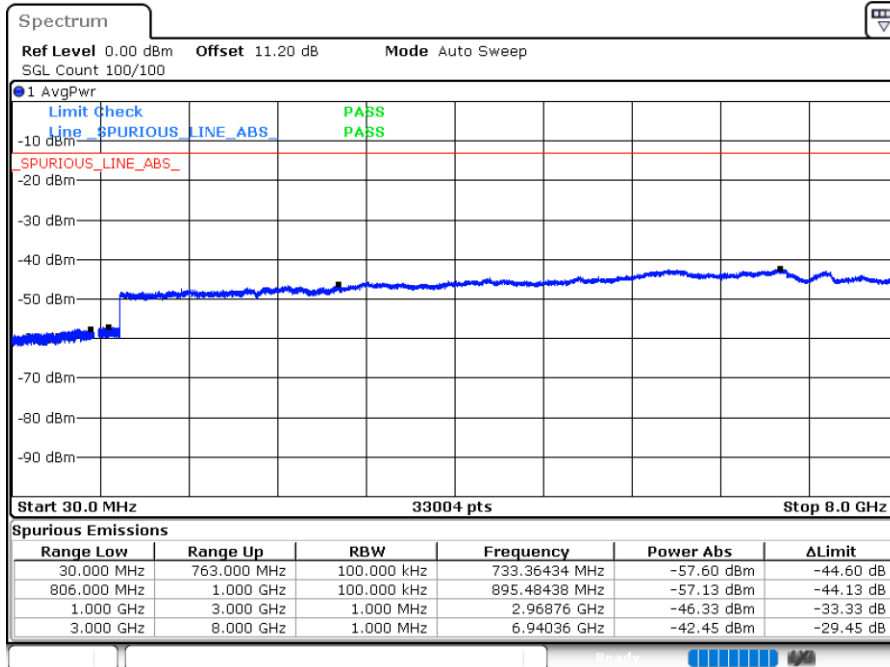
Highest Channel / QPSK

Date: 27.APR.2022 15:39:24



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 27.APR.2022 15:53:39

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	0.0084	PASS
40	Normal Voltage	0.0188	
30	Normal Voltage	0.0184	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0161	
-10	Normal Voltage	0.0056	
-20	Normal Voltage	0.0210	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0054	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0189	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.30 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

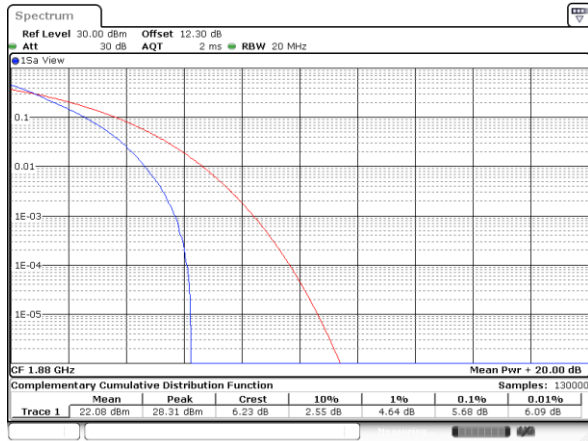
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.68	6.20	6.35	6.81	PASS



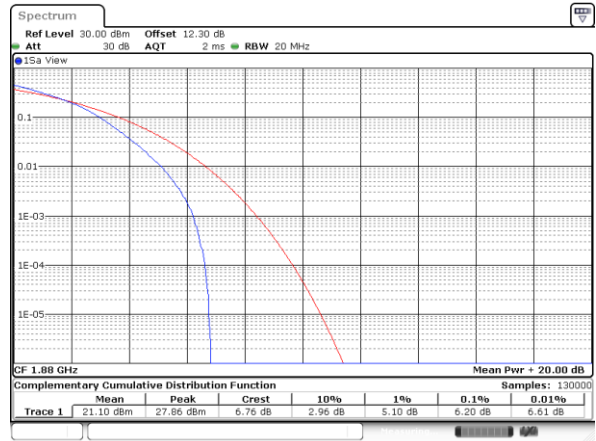
LTE Band 25 / 20MHz / QPSK

Middle Channel / Full RB



LTE Band 25 / 20MHz / 16QAM

Middle Channel / Full RB



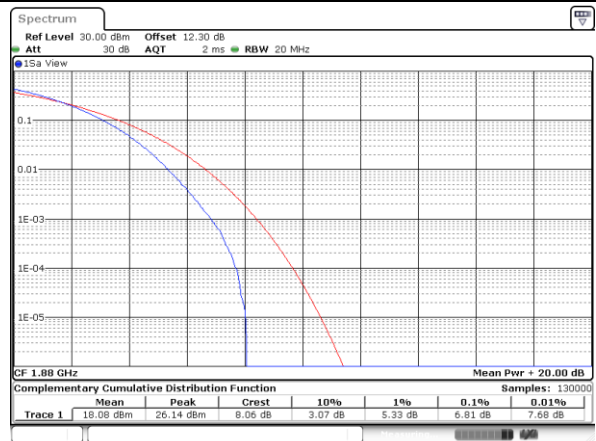
LTE Band 25 / 20MHz / 64QAM

Middle Channel / Full RB



LTE Band 25 / 20MHz / 256QAM

Middle Channel / Full RB



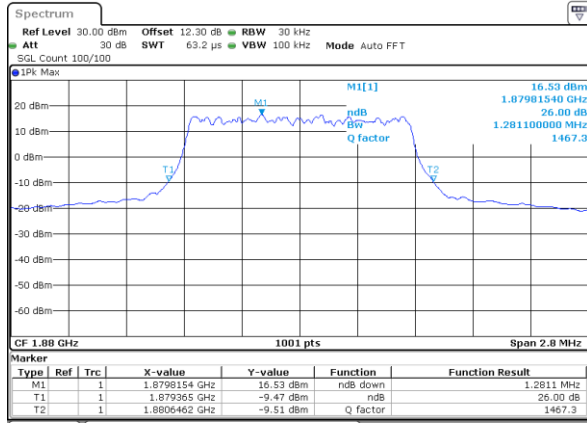
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.29	3.10	3.09	5.15	5.18	9.81	10.17	14.57	14.69	18.98	19.14
Mode	LTE Band 25 : 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	1.27	3.09	3.10	5.40	5.02	10.09	10.03	14.72	14.45	19.74	19.54

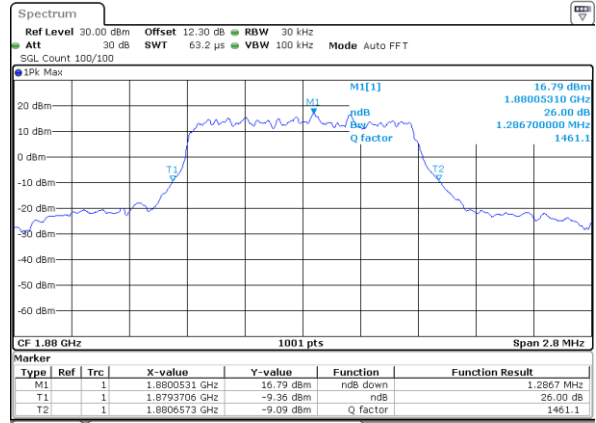


LTE Band 25

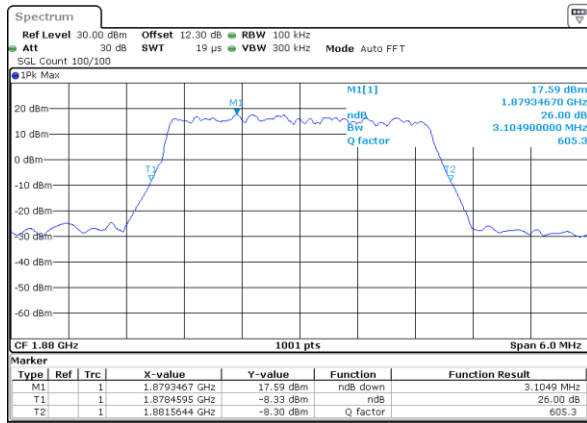
Middle Channel / 1.4MHz / QPSK



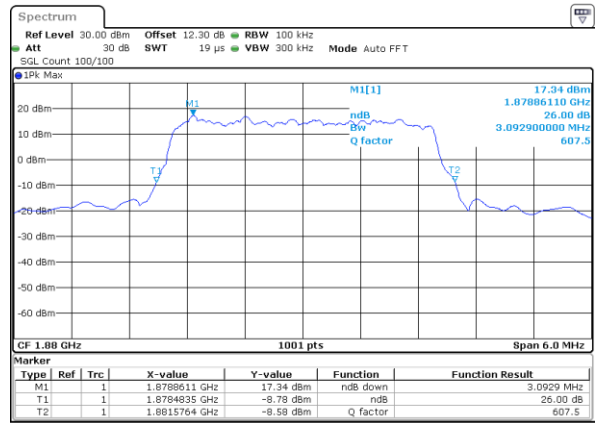
Middle Channel / 1.4MHz / 16QAM



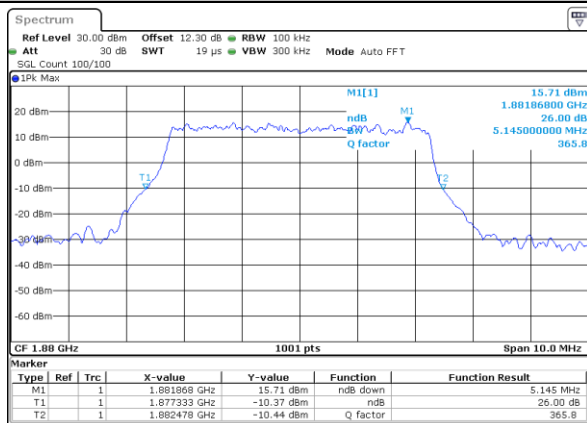
Middle Channel / 3MHz / QPSK



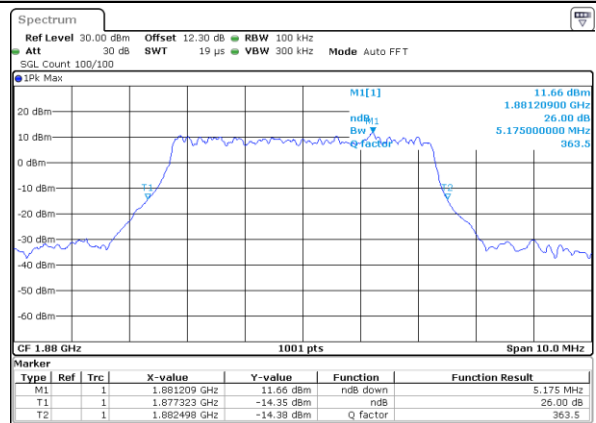
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



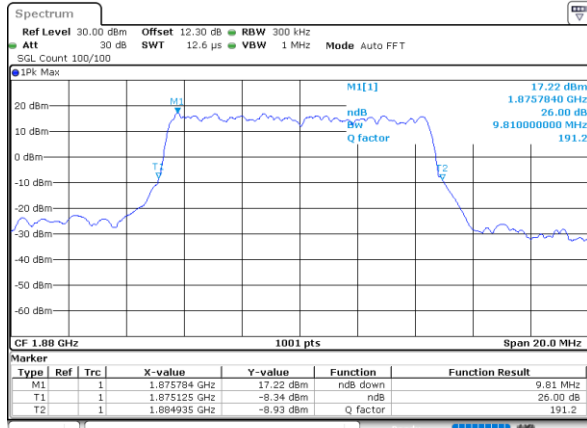
Middle Channel / 5MHz / 16QAM





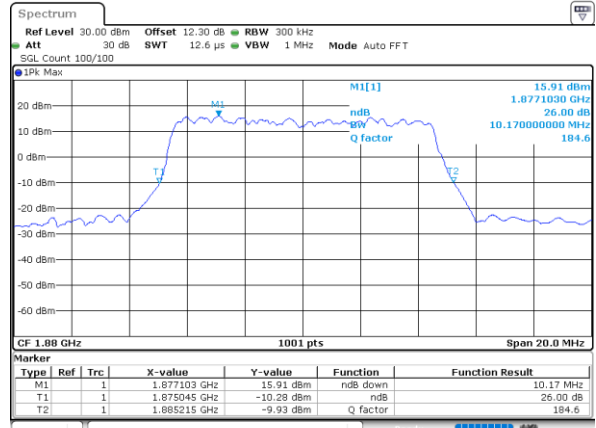
LTE Band 25

Middle Channel / 10MHz / QPSK



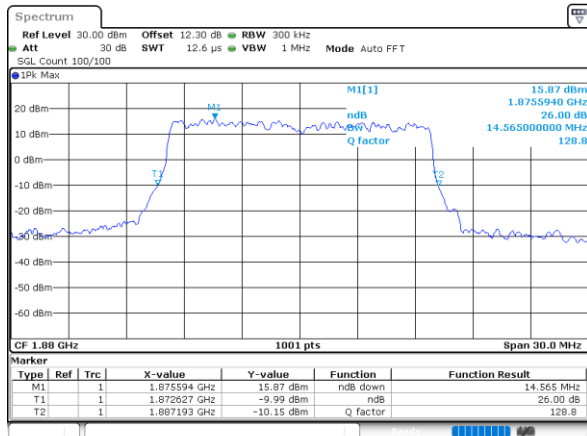
Date: 25.APR.2022 12:31:14

Middle Channel / 10MHz / 16QAM



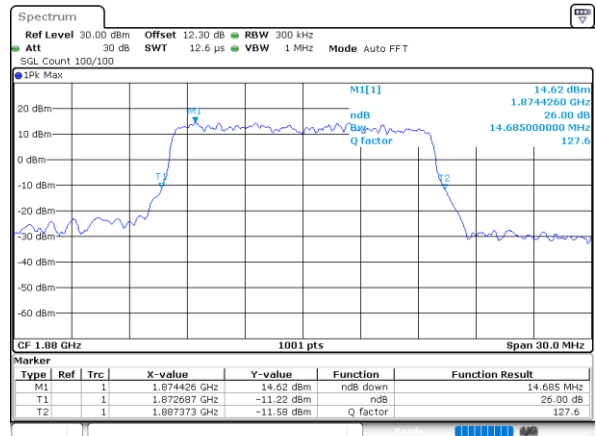
Date: 25.APR.2022 12:31:41

Middle Channel / 15MHz / QPSK



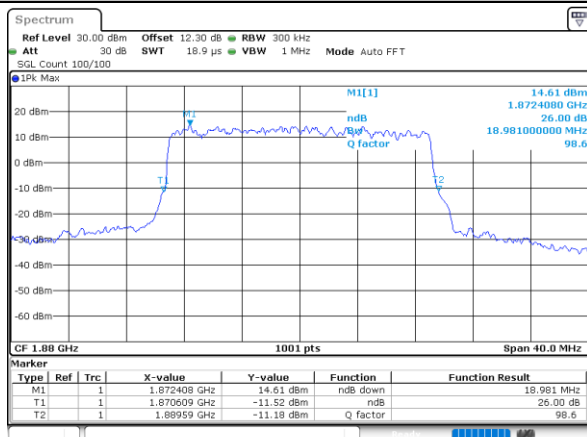
Date: 25.APR.2022 13:53:00

Middle Channel / 15MHz / 16QAM



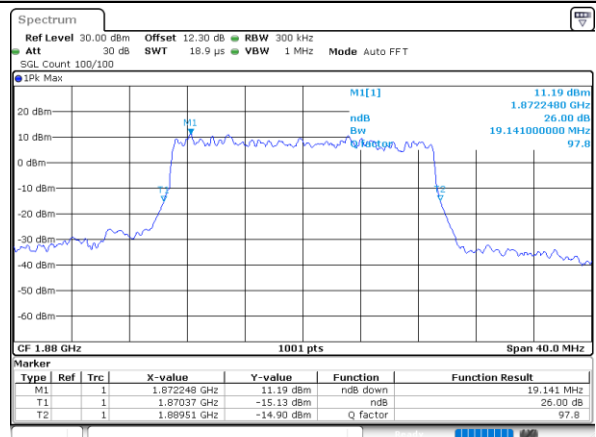
Date: 25.APR.2022 13:53:26

Middle Channel / 20MHz / QPSK



Date: 25.APR.2022 14:08:05

Middle Channel / 20MHz / 16QAM

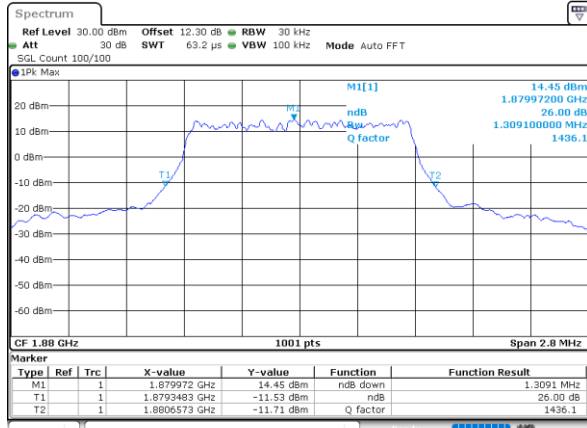


Date: 25.APR.2022 14:08:31



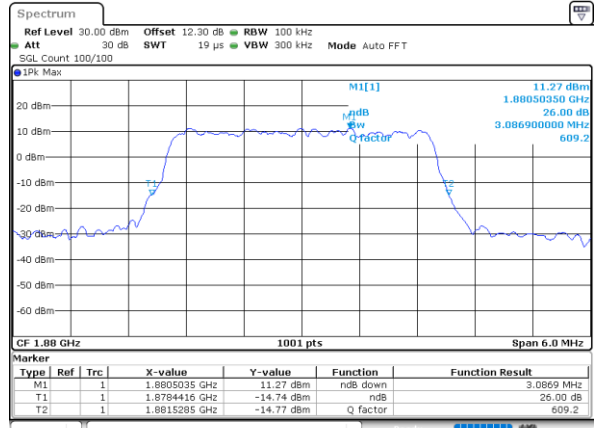
LTE Band 25

Middle Channel / 1.4MHz / 64QAM



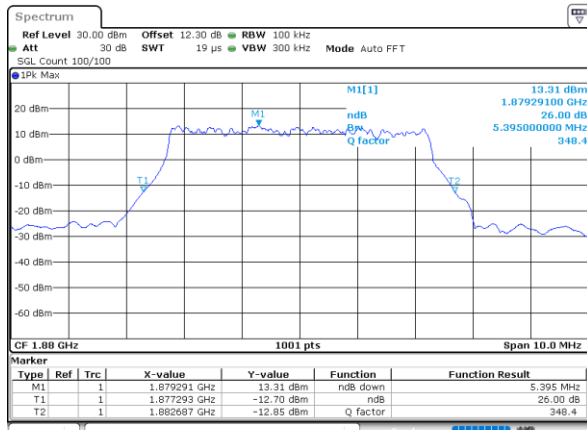
Date: 25.APR.2022 15:08:49

Middle Channel / 3MHz / 64QAM



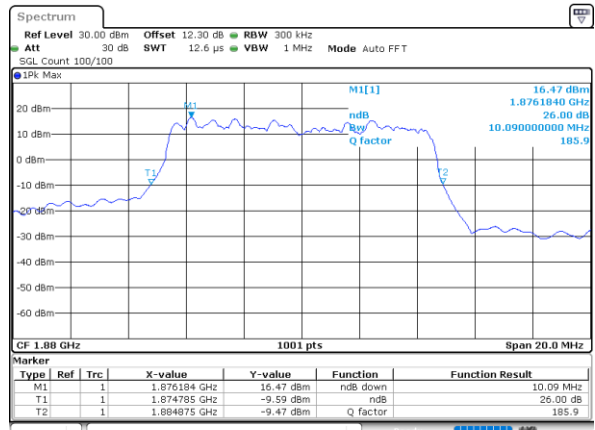
Date: 25.APR.2022 15:05:15

Middle Channel / 5MHz / 64QAM



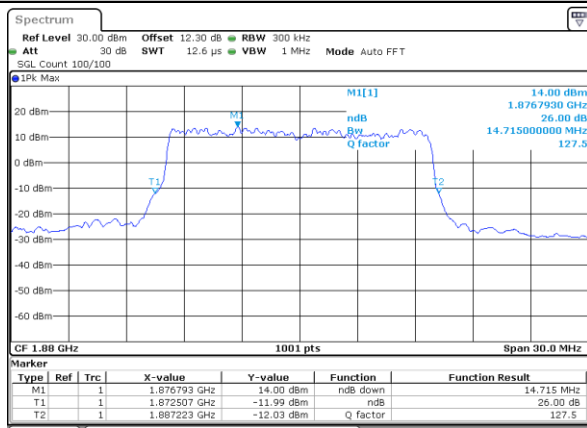
Date: 25.APR.2022 12:21:18

Middle Channel / 10MHz / 64QAM



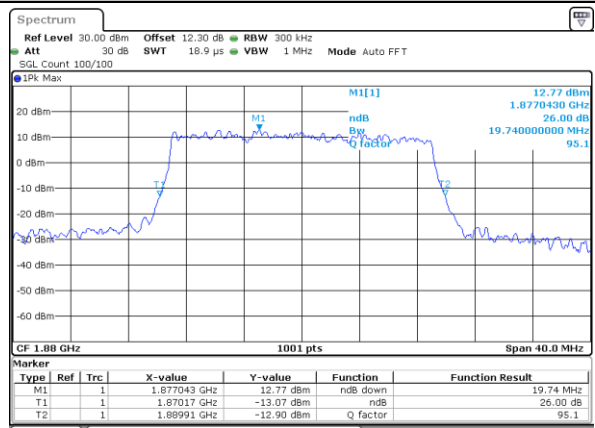
Date: 25.APR.2022 16:04:44

Middle Channel / 15MHz / 64QAM



Date: 25.APR.2022 13:43:48

Middle Channel / 20MHz / 64QAM



Date: 25.APR.2022 14:18:19