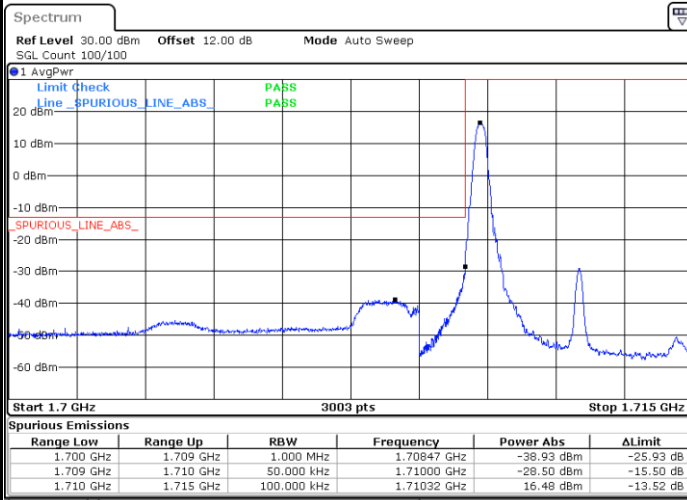




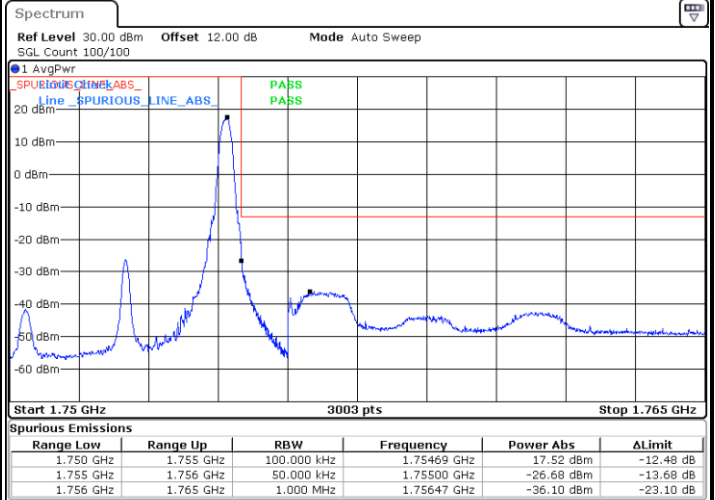
LTE Band 4 / 5MHz / 256QAM

Lowest Band Edge / 1RB



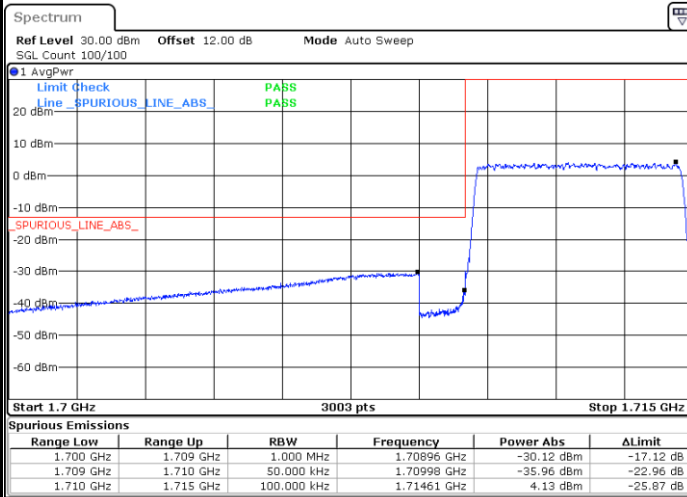
Date: 25 DEC 2020 10:32:29

Highest Band Edge / 1 RB



Date: 25 DEC 2020 10:34:31

Lowest Band Edge / Full RB



Date: 25 DEC 2020 10:33:08

Highest Band Edge / Full RB

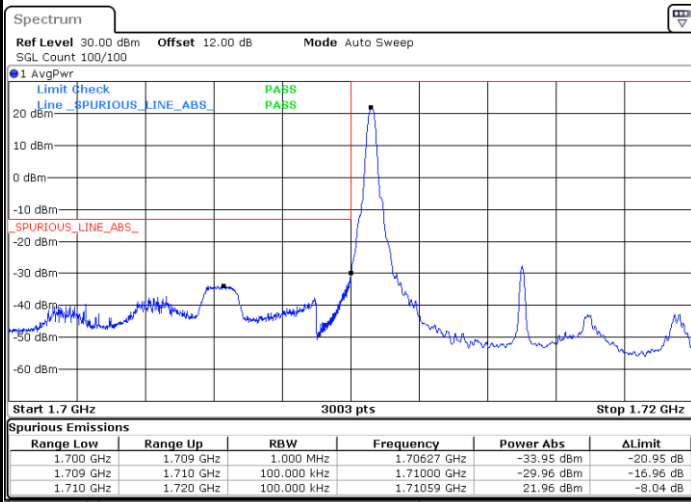


Date: 25 DEC 2020 10:35:04



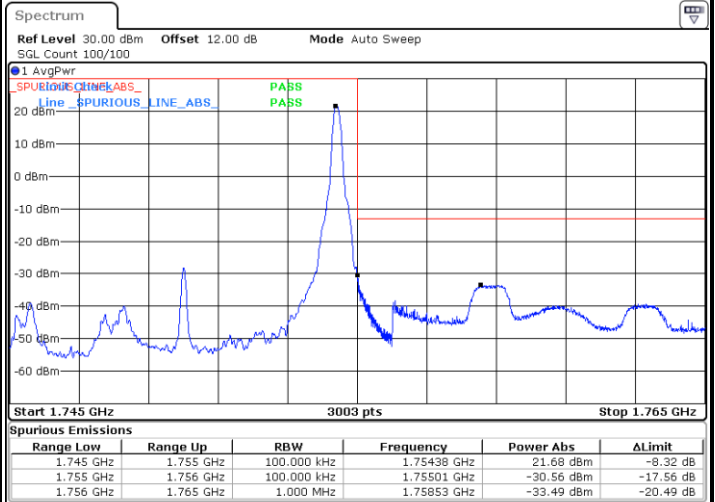
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



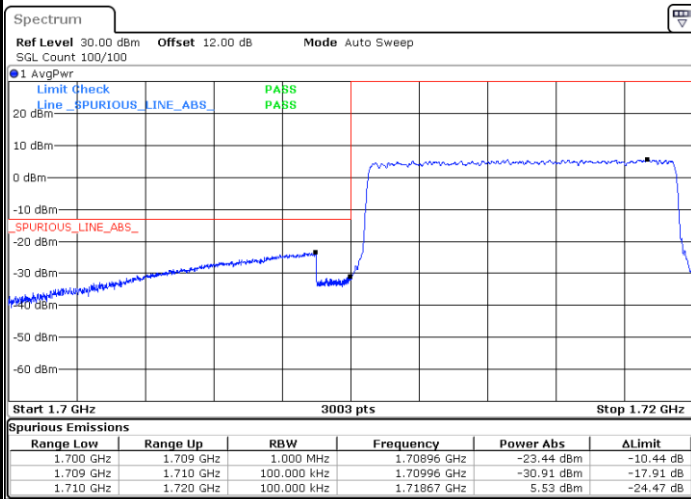
Date: 20 DEC 2020 04:55:24

Highest Band Edge / 1 RB



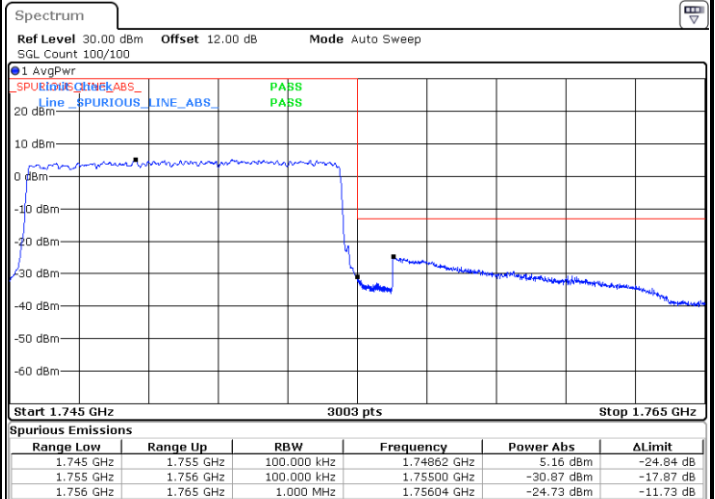
Date: 22 DEC 2020 09:13:02

Lowest Band Edge / Full RB



Date: 20 DEC 2020 04:56:20

Highest Band Edge / Full RB

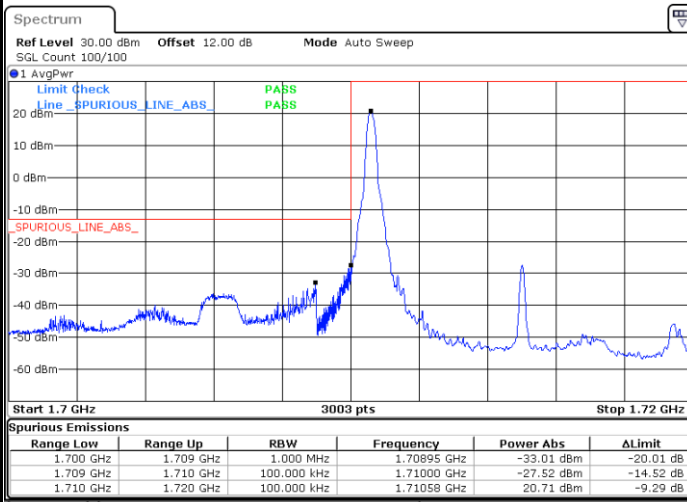


Date: 22 DEC 2020 09:14:27



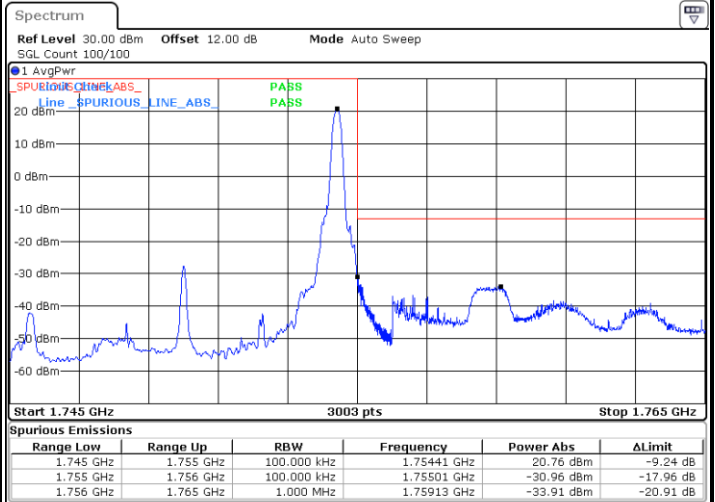
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



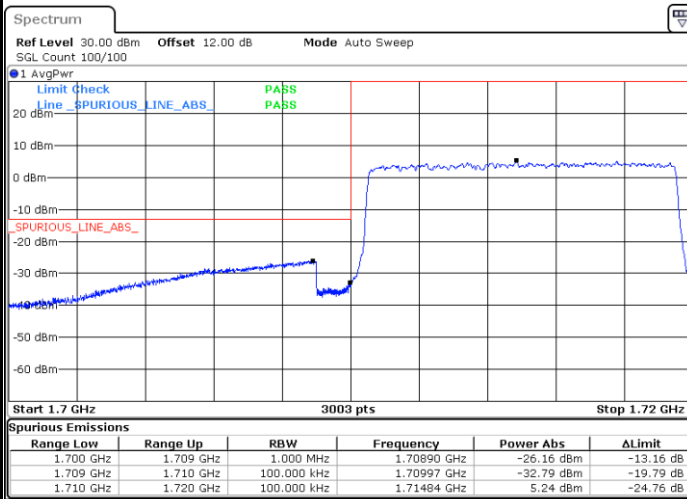
Date: 20 DEC 2020 04:55:52

Highest Band Edge / 1 RB



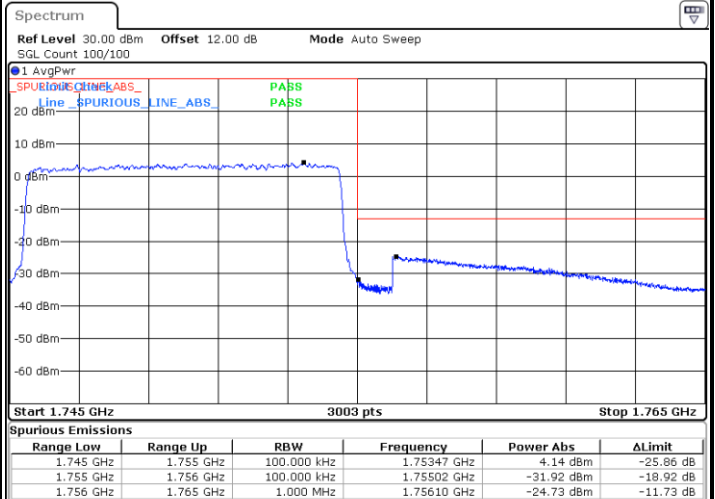
Date: 22 DEC 2020 09:13:45

Lowest Band Edge / Full RB



Date: 20 DEC 2020 04:56:47

Highest Band Edge / Full RB

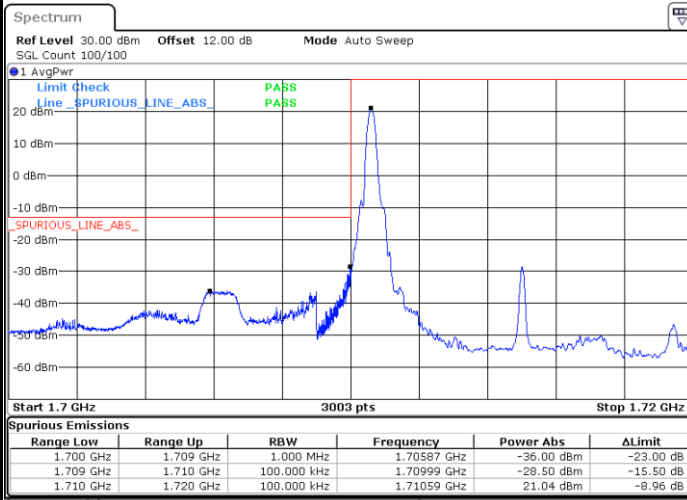


Date: 22 DEC 2020 09:15:09



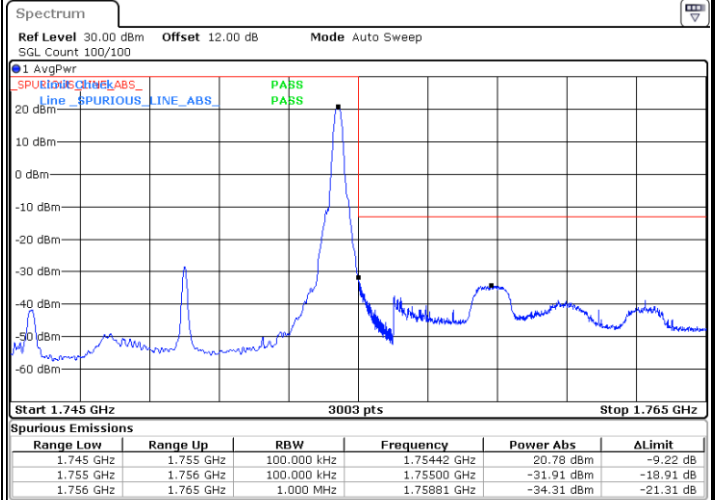
LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



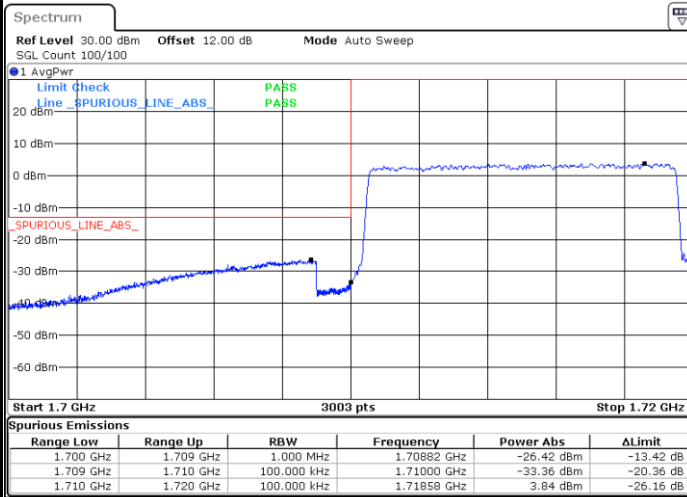
Date: 22 DEC 2020 09:16:34

Highest Band Edge / 1 RB



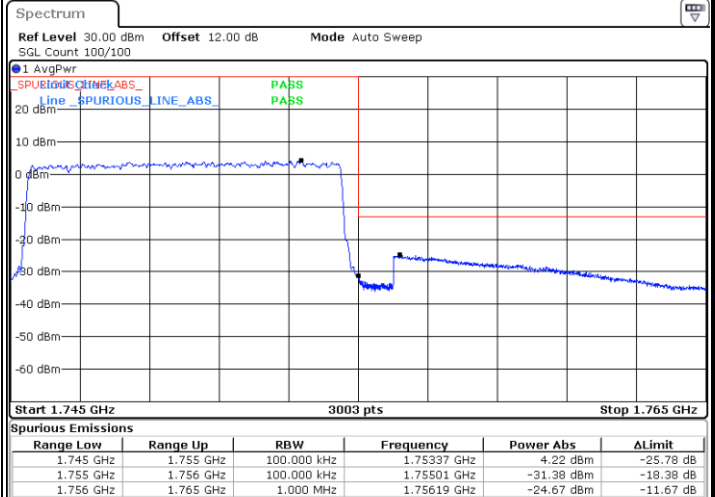
Date: 22 DEC 2020 09:18:25

Lowest Band Edge / Full RB



Date: 22 DEC 2020 09:17:17

Highest Band Edge / Full RB

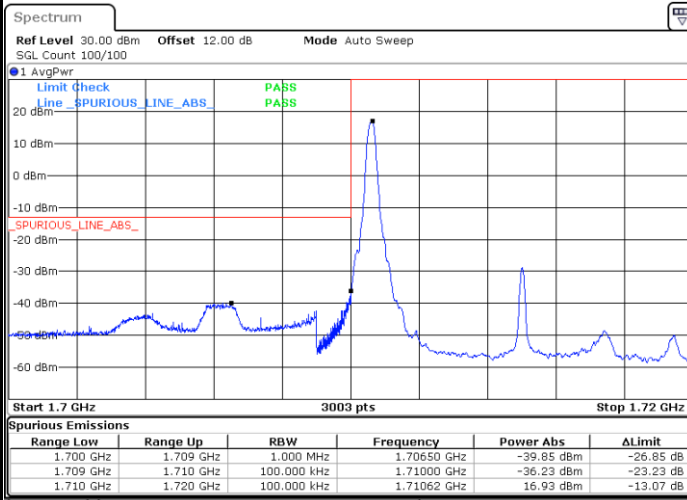


Date: 22 DEC 2020 09:19:07



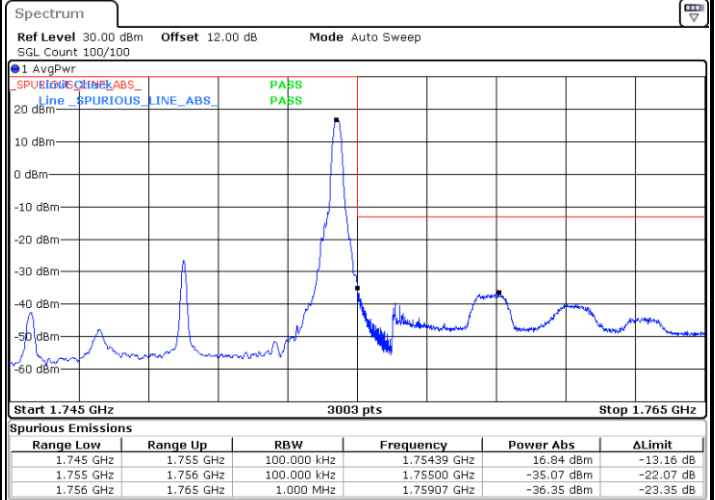
LTE Band 4 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



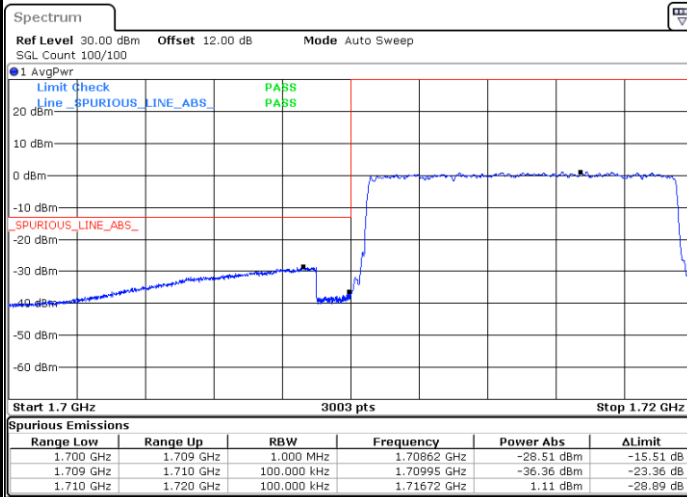
Date: 25 DEC 2020 10:37:22

Highest Band Edge / 1 RB



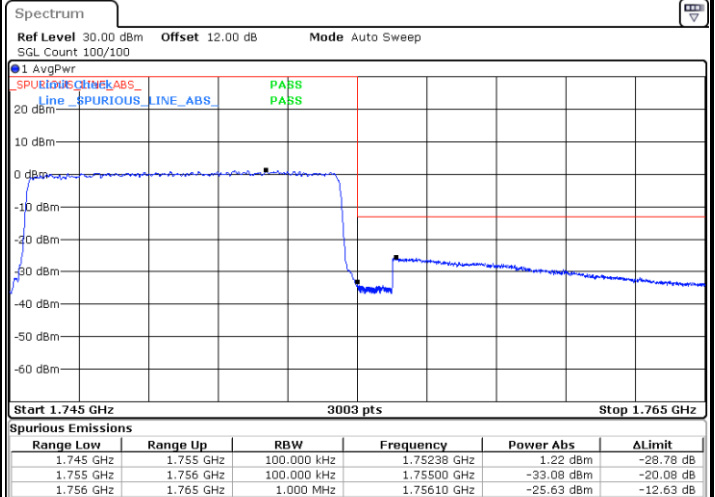
Date: 25 DEC 2020 10:39:22

Lowest Band Edge / Full RB



Date: 25 DEC 2020 10:37:56

Highest Band Edge / Full RB

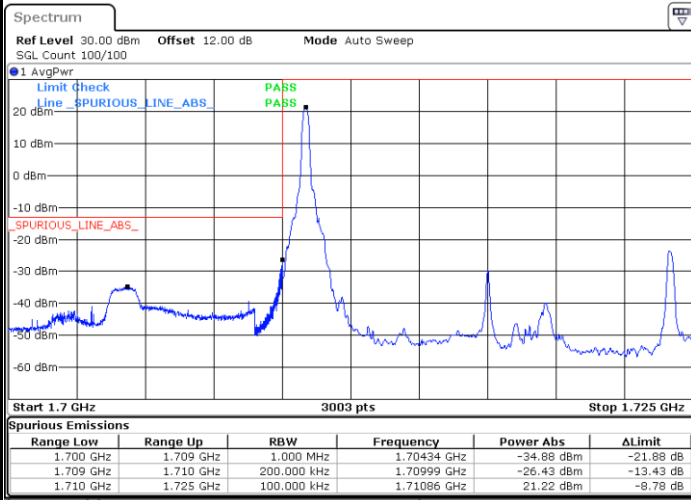


Date: 25 DEC 2020 10:39:56



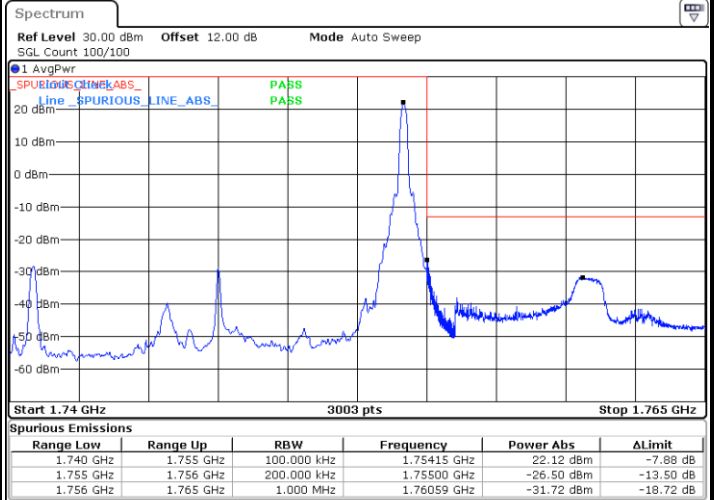
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



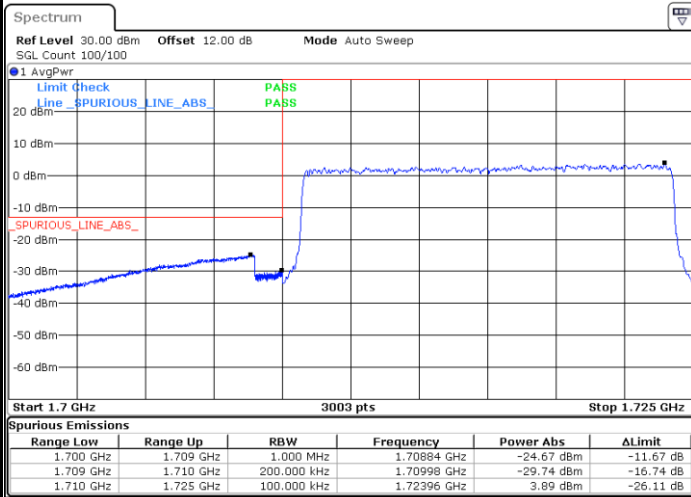
Date: 22 DEC 2020 09:19:50

Highest Band Edge / 1 RB



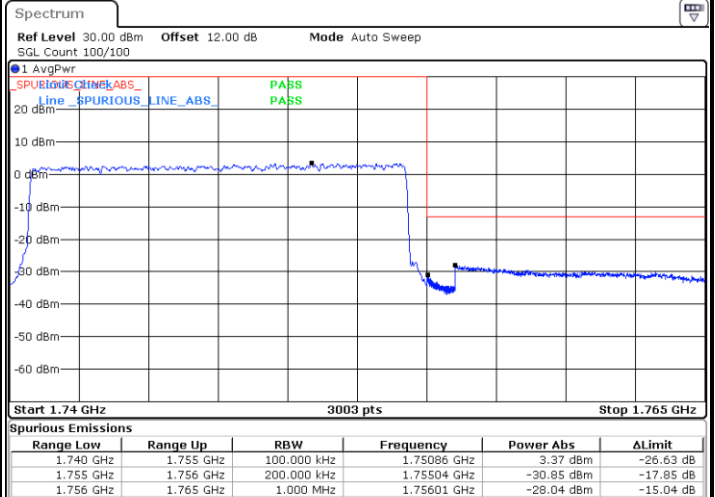
Date: 22 DEC 2020 09:24:56

Lowest Band Edge / Full RB



Date: 22 DEC 2020 09:21:14

Highest Band Edge / Full RB

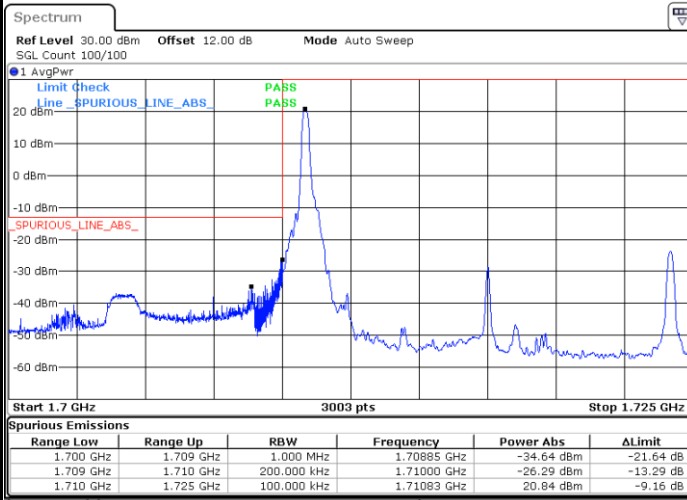


Date: 22 DEC 2020 09:26:20



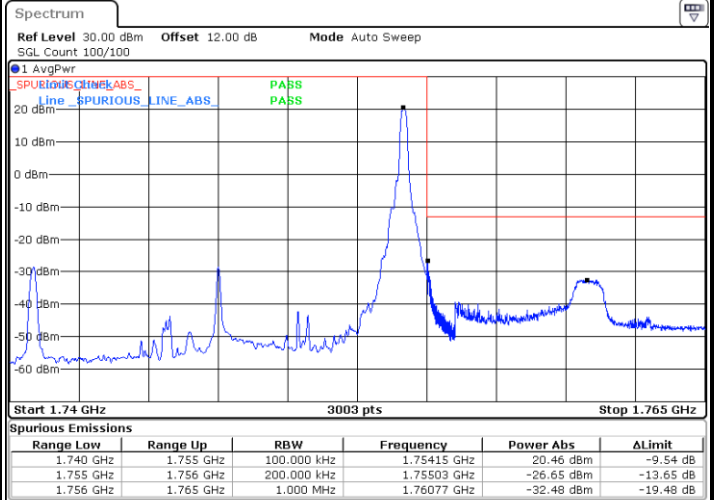
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



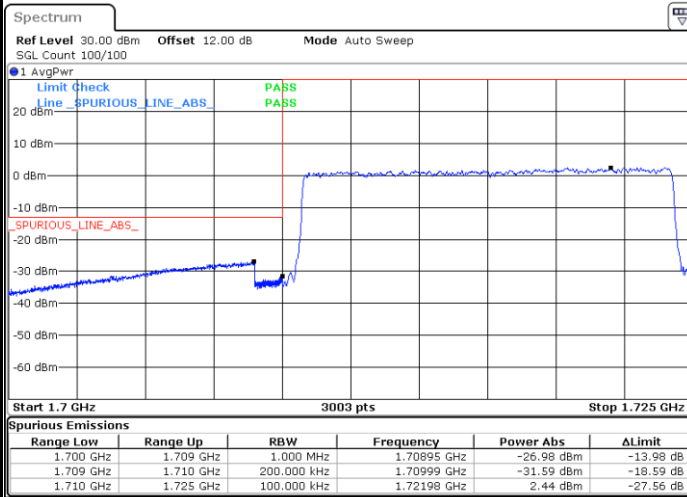
Date: 22 DEC 2020 09:20:32

Highest Band Edge / 1 RB



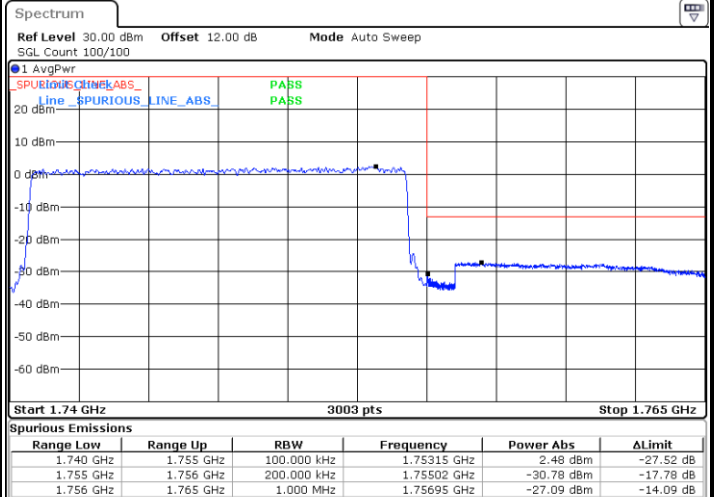
Date: 22 DEC 2020 09:25:38

Lowest Band Edge / Full RB



Date: 22 DEC 2020 09:21:56

Highest Band Edge / Full RB

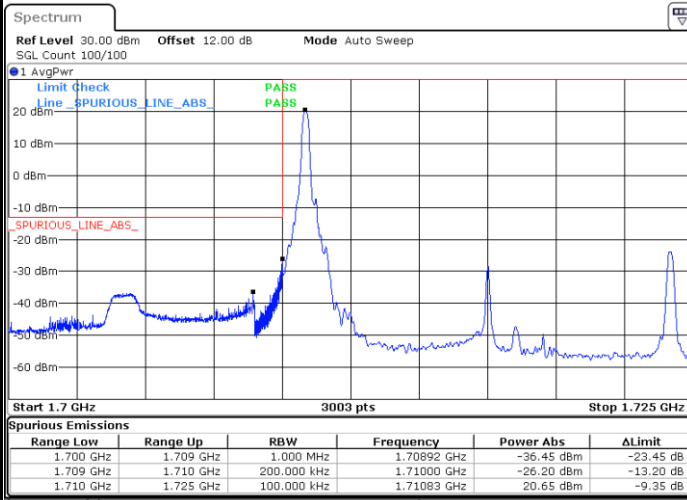


Date: 22 DEC 2020 09:27:02



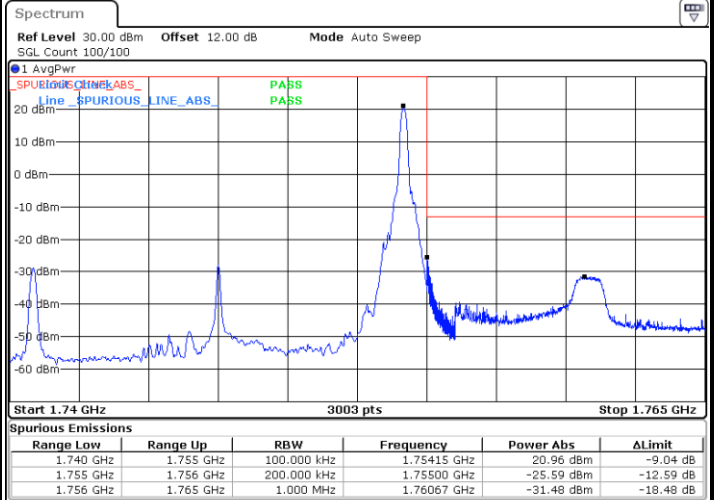
LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



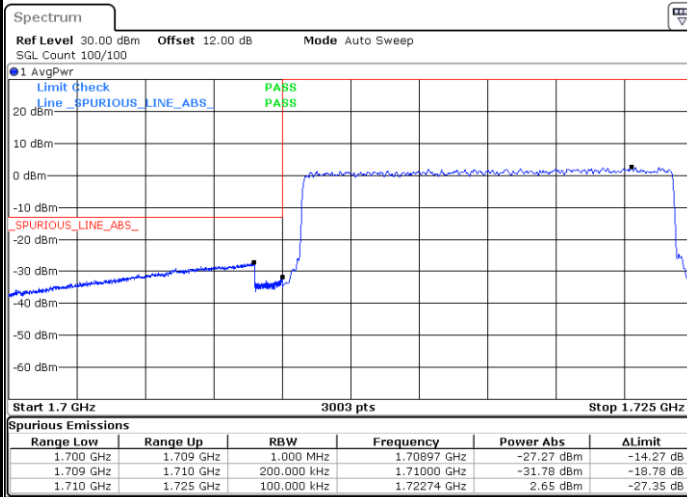
Date: 22 DEC 2020 09:28:27

Highest Band Edge / 1 RB



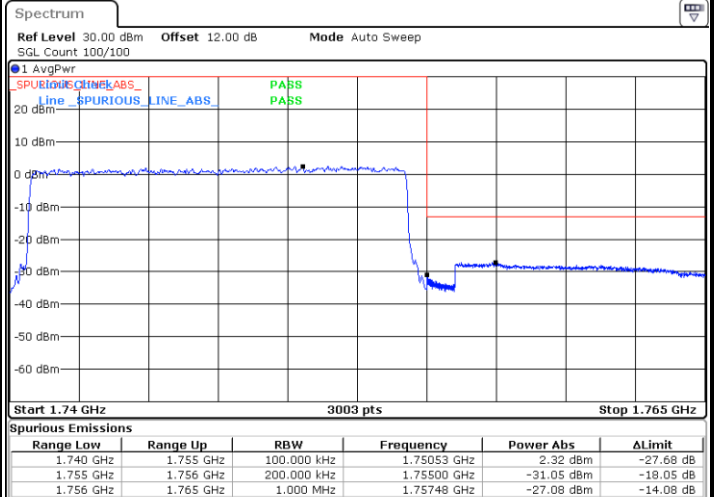
Date: 22 DEC 2020 09:30:18

Lowest Band Edge / Full RB



Date: 22 DEC 2020 09:29:09

Highest Band Edge / Full RB

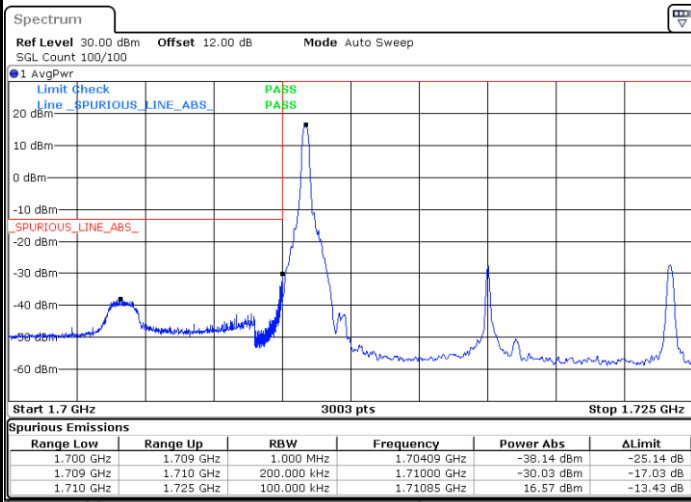


Date: 22 DEC 2020 09:31:00



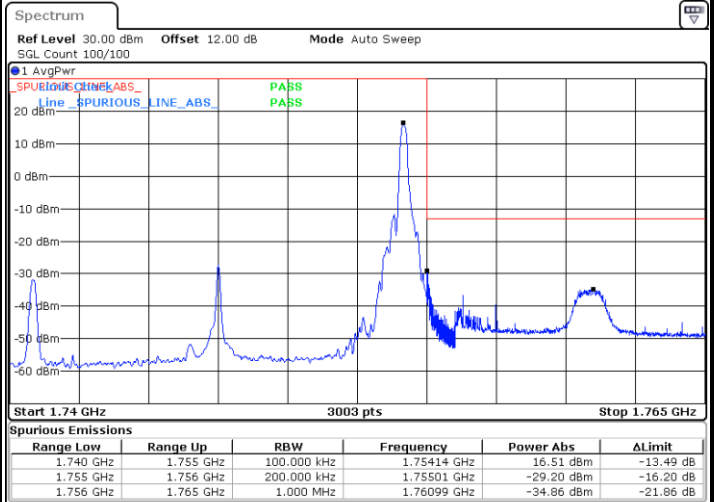
LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



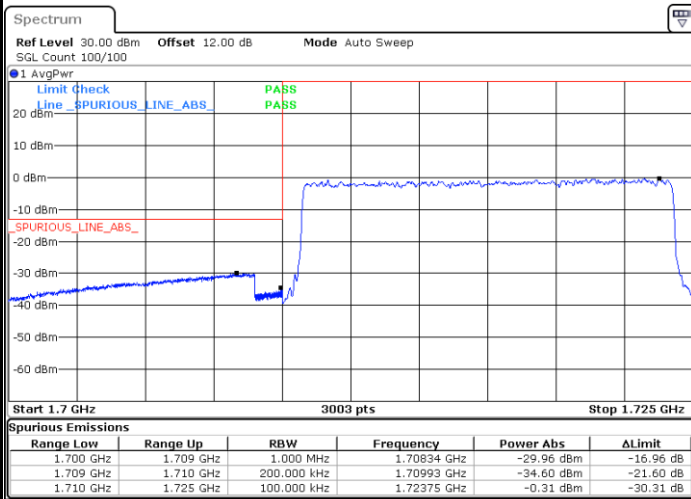
Date: 25 DEC 2020 10:41:35

Highest Band Edge / 1 RB



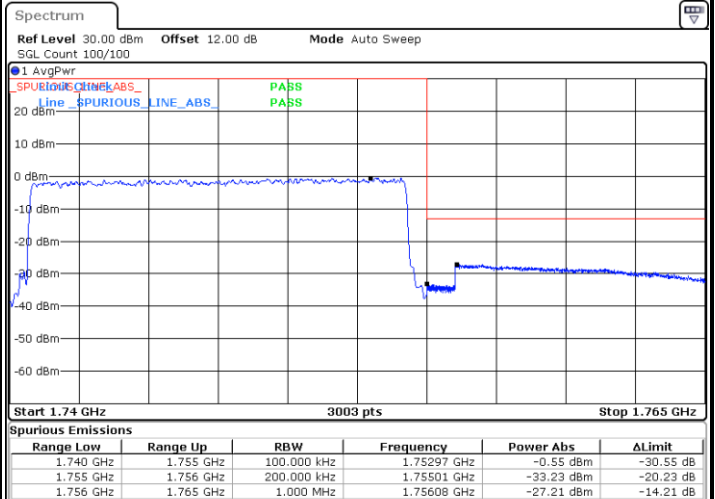
Date: 25 DEC 2020 10:43:42

Lowest Band Edge / Full RB



Date: 25 DEC 2020 10:42:08

Highest Band Edge / Full RB

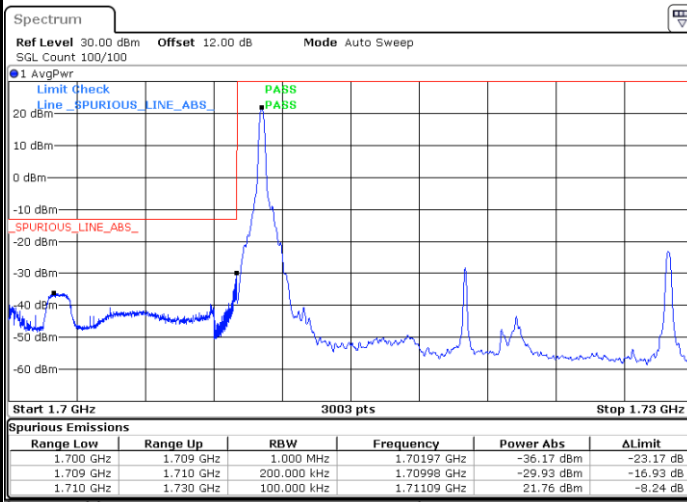


Date: 25 DEC 2020 10:44:15



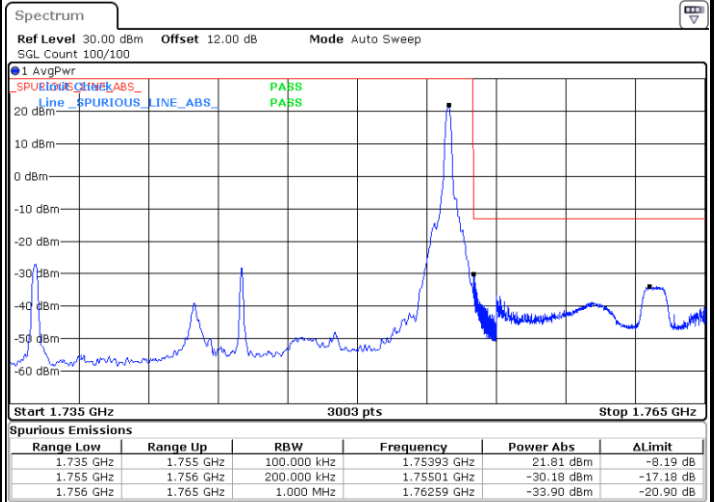
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



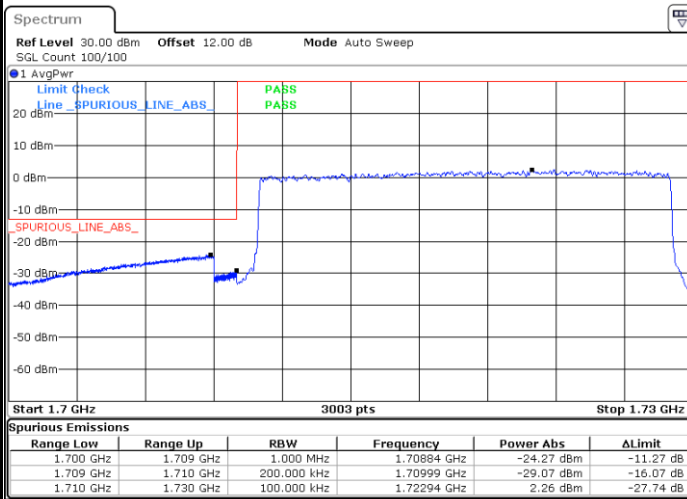
Date: 22 DEC 2020 09:31:43

Highest Band Edge / 1 RB



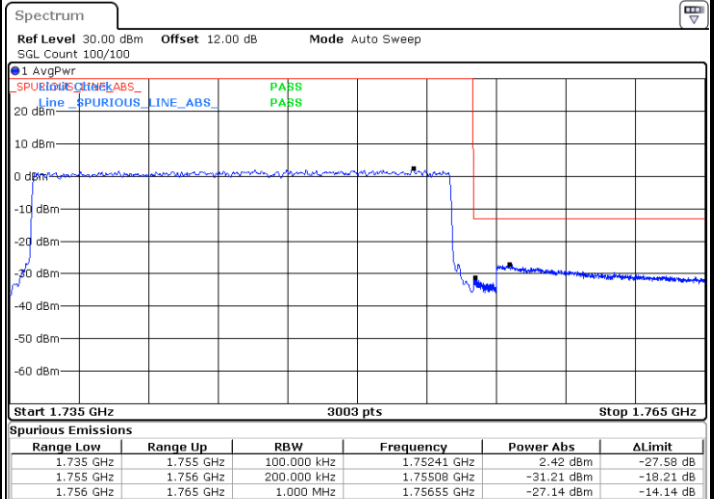
Date: 22 DEC 2020 09:36:48

Lowest Band Edge / Full RB



Date: 22 DEC 2020 09:33:07

Highest Band Edge / Full RB

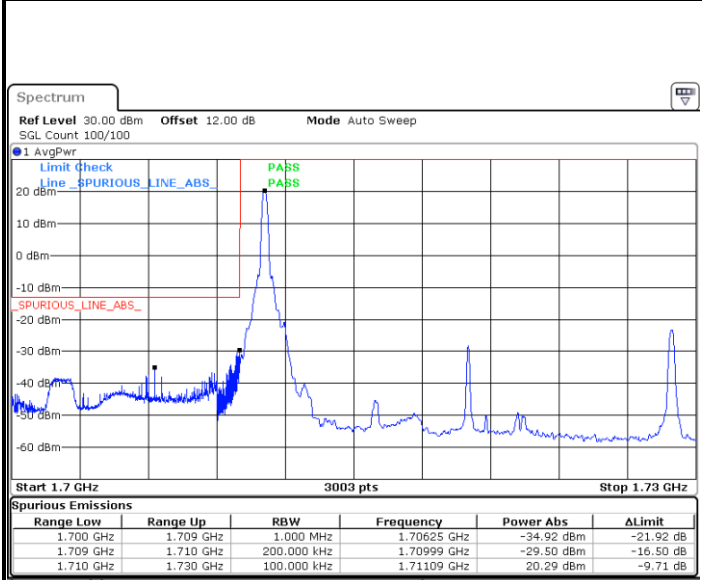


Date: 22 DEC 2020 09:38:12



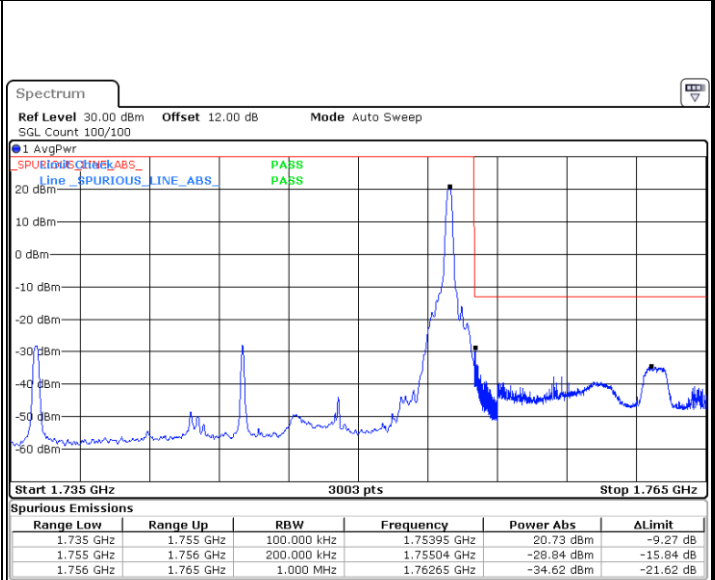
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



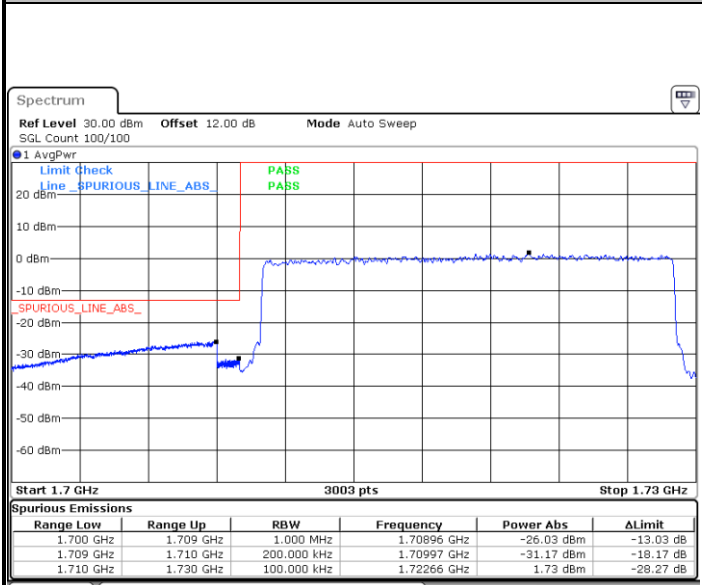
Date: 22 DEC 2020 09:32:25

Highest Band Edge / 1 RB



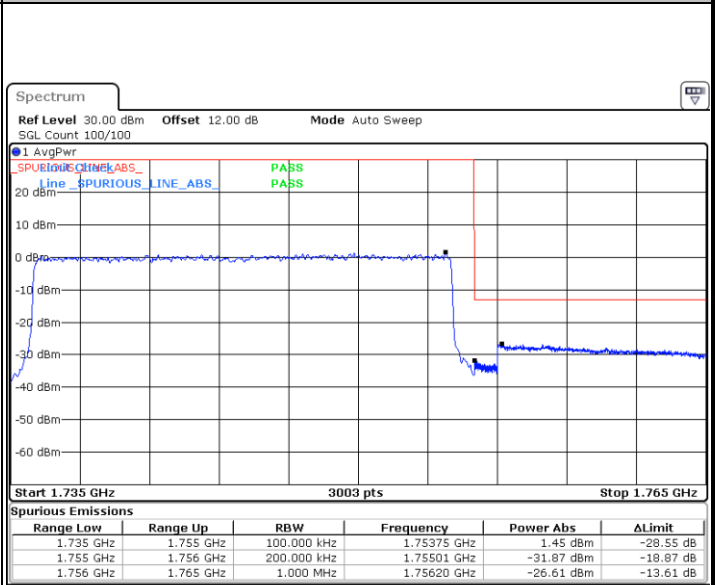
Date: 22 DEC 2020 09:37:30

Lowest Band Edge / Full RB



Date: 22 DEC 2020 09:33:49

Highest Band Edge / Full RB

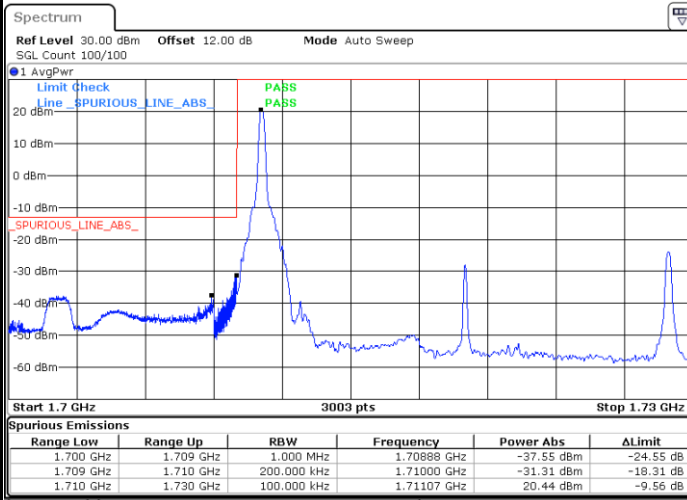


Date: 22 DEC 2020 09:38:54



LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



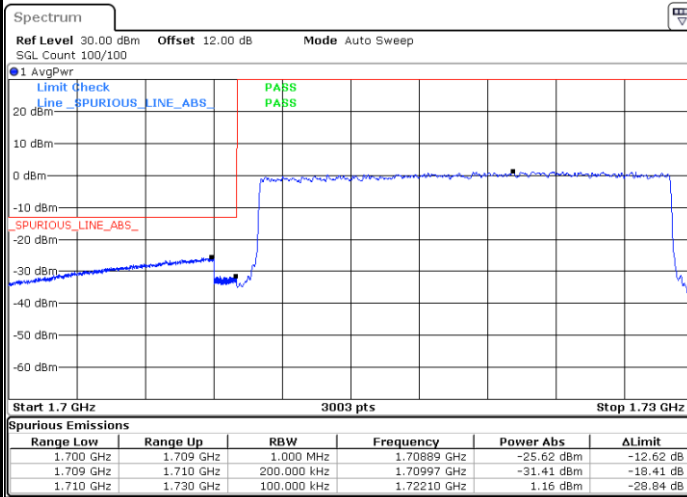
Date: 22 DEC 2020 09:40:19

Highest Band Edge / 1 RB



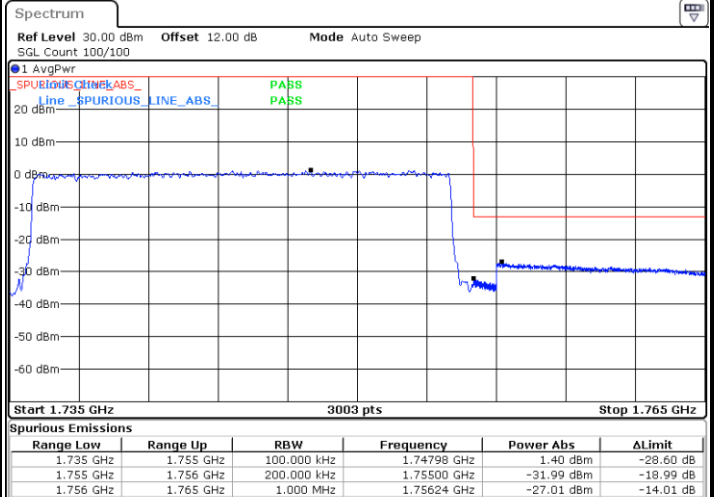
Date: 22 DEC 2020 09:42:10

Lowest Band Edge / Full RB



Date: 22 DEC 2020 09:41:01

Highest Band Edge / Full RB

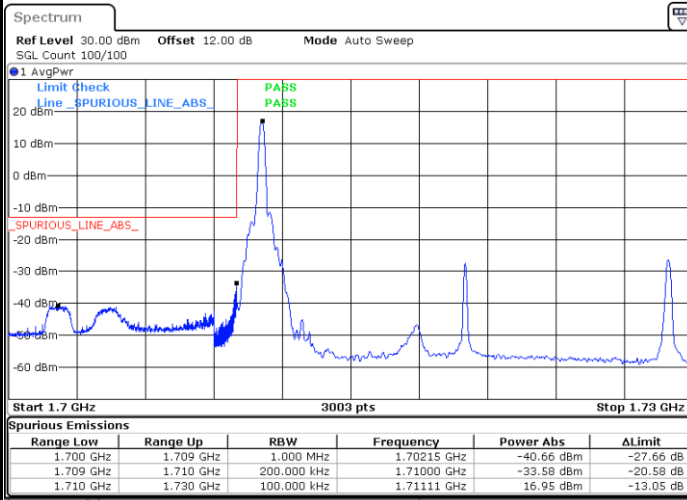


Date: 22 DEC 2020 09:42:52



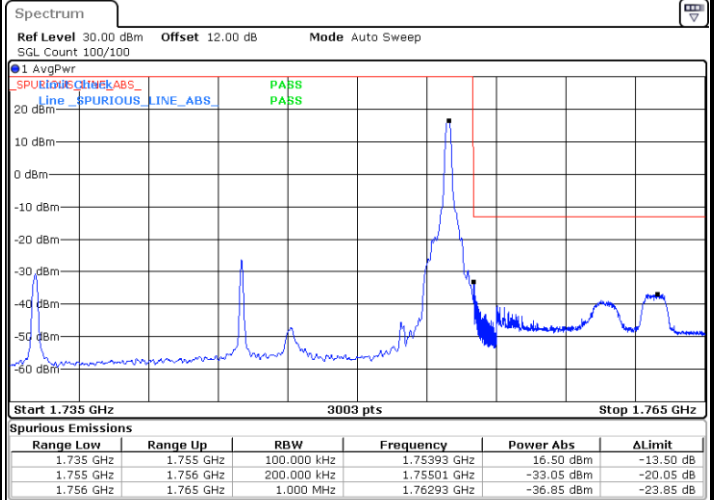
LTE Band 4 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



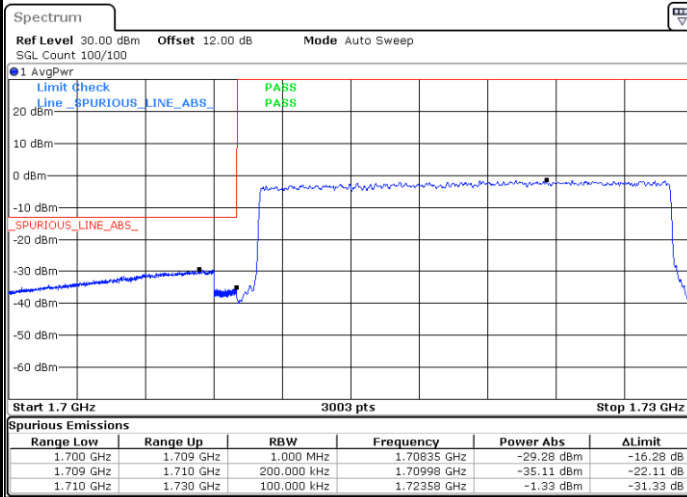
Date: 25 DEC 2020 10:46:20

Highest Band Edge / 1 RB



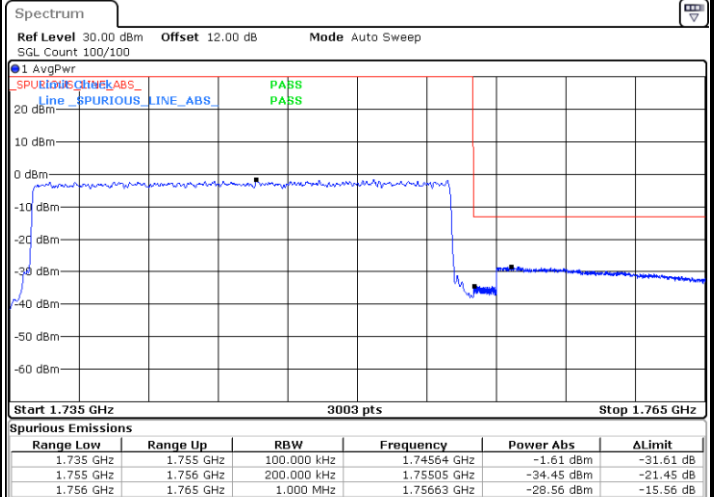
Date: 25 DEC 2020 10:48:33

Lowest Band Edge / Full RB



Date: 25 DEC 2020 10:46:53

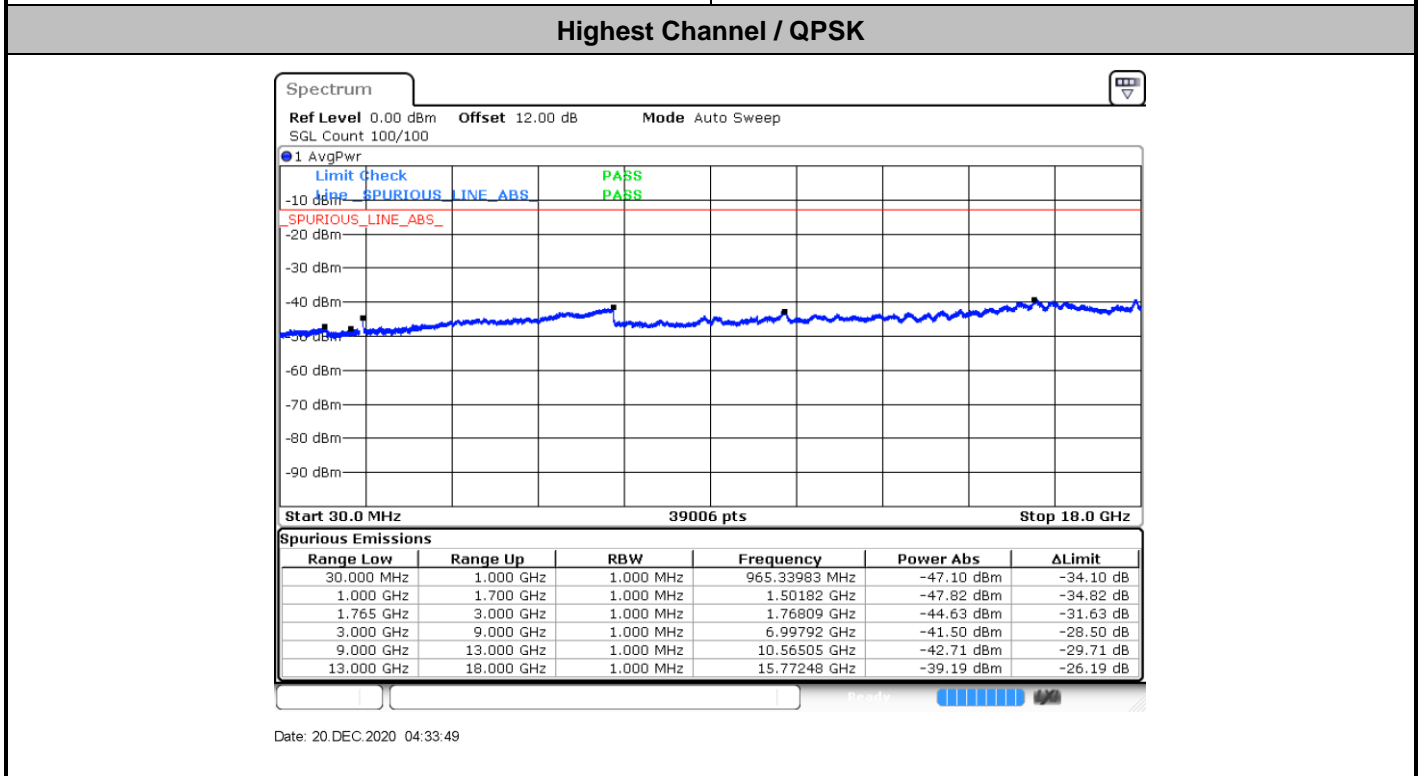
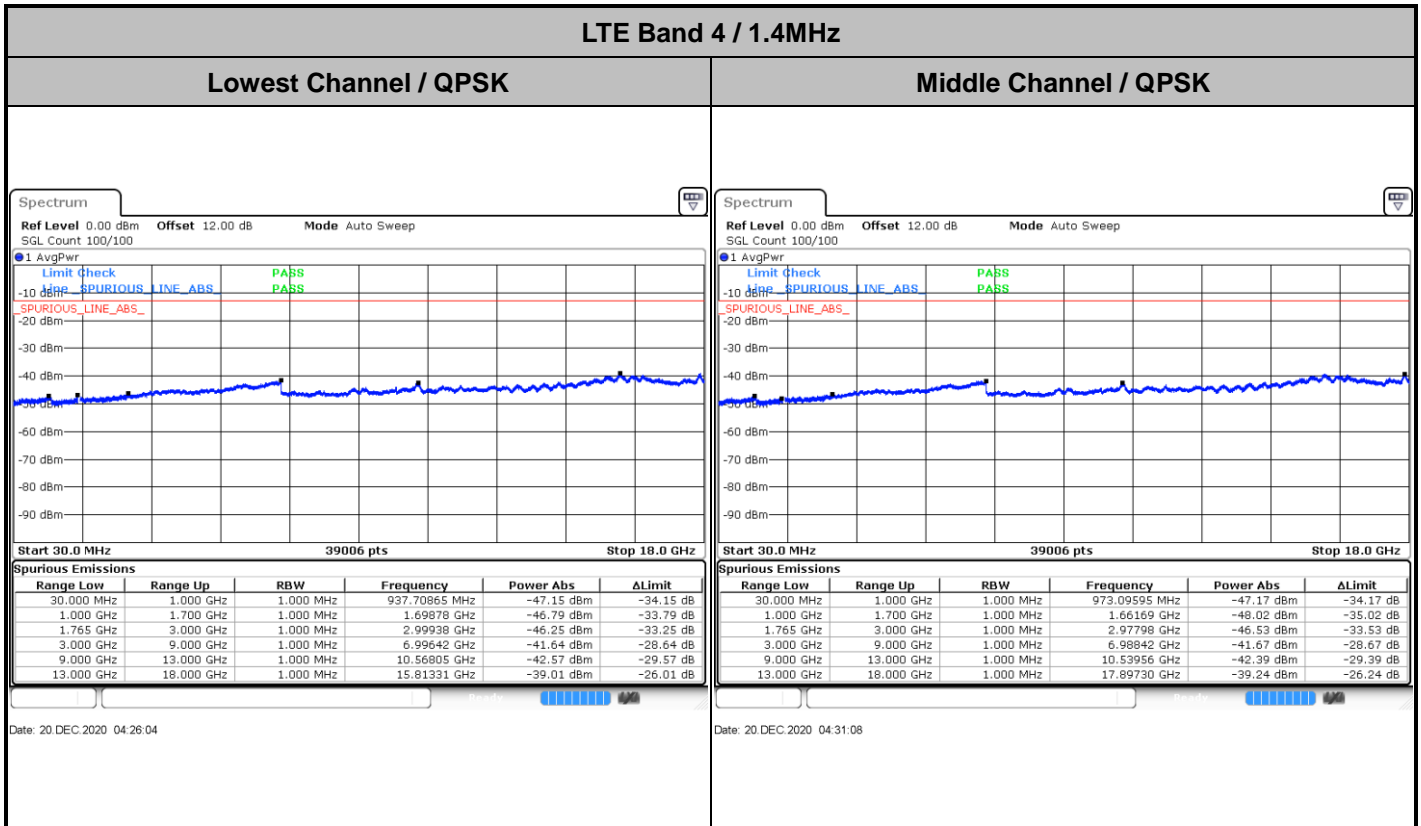
Highest Band Edge / Full RB



Date: 25 DEC 2020 10:49:06



Conducted Spurious Emission

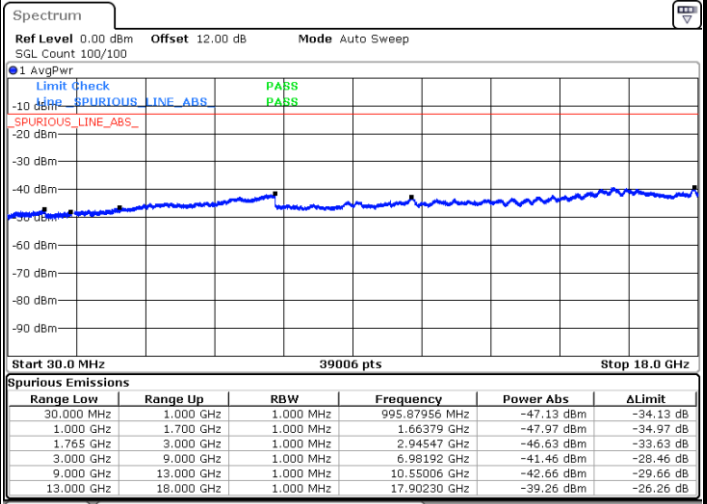
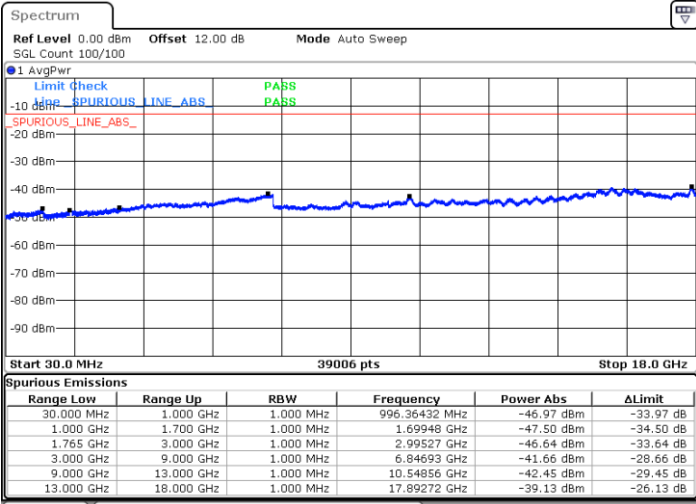




LTE Band 4 / 3MHz

Lowest Channel / QPSK

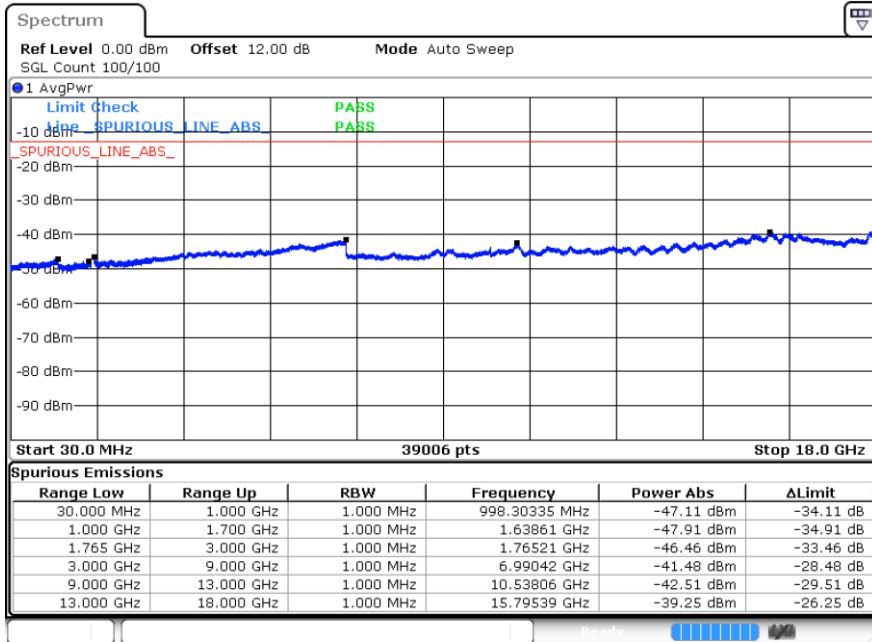
Middle Channel / QPSK



Date: 20 DEC.2020 04:38:48

Date: 20 DEC.2020 04:40:33

Highest Channel / QPSK

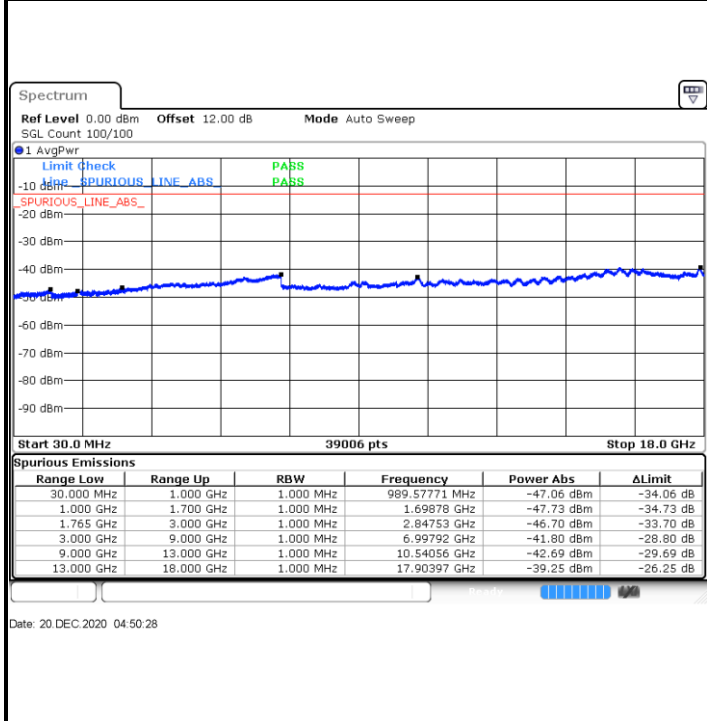


Date: 20 DEC.2020 04:43:15

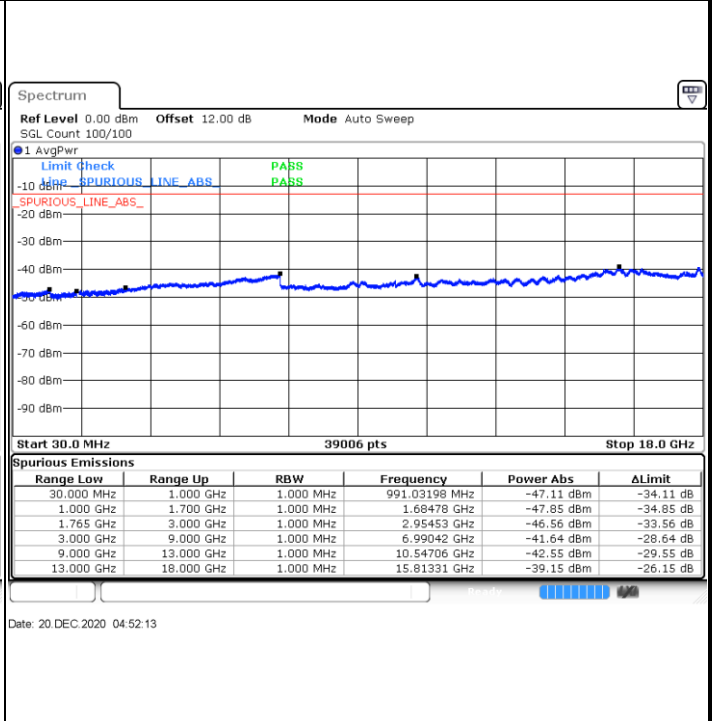


LTE Band 4 / 5MHz

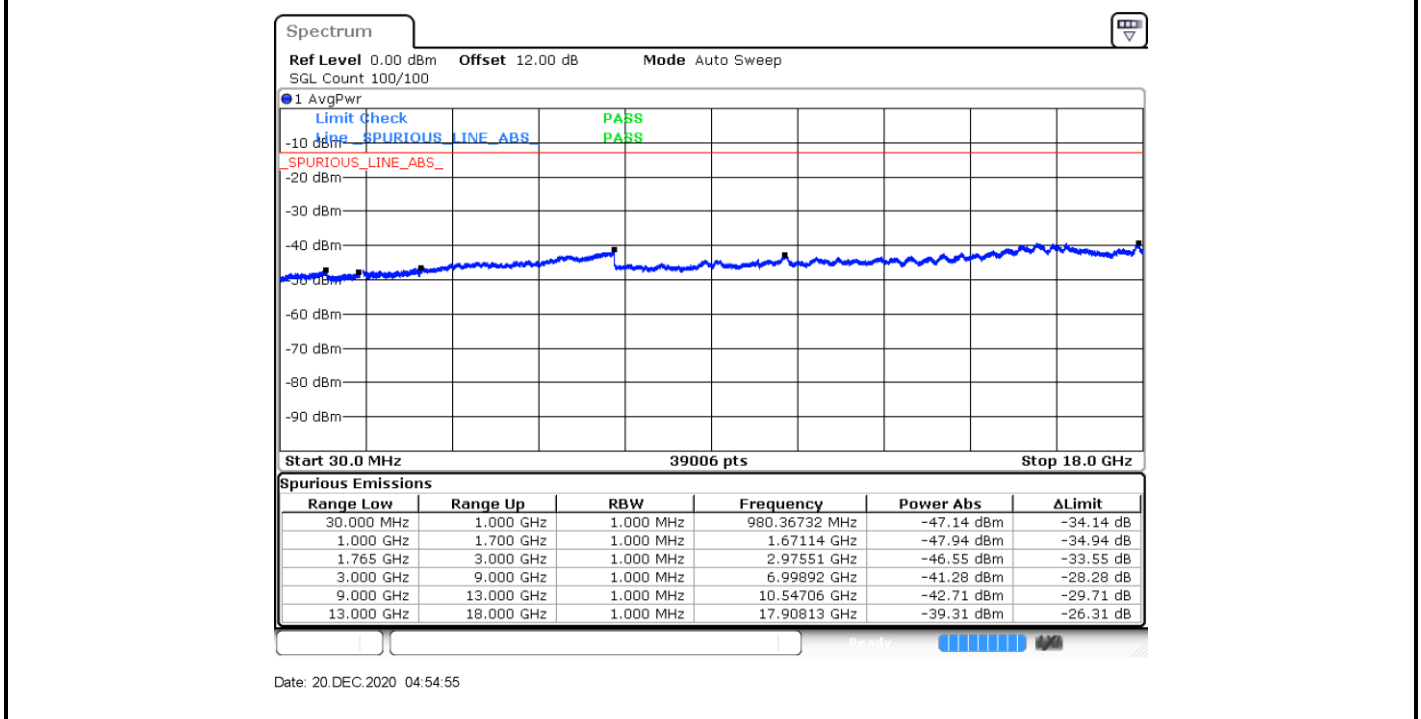
Lowest Channel / QPSK



Middle Channel / QPSK



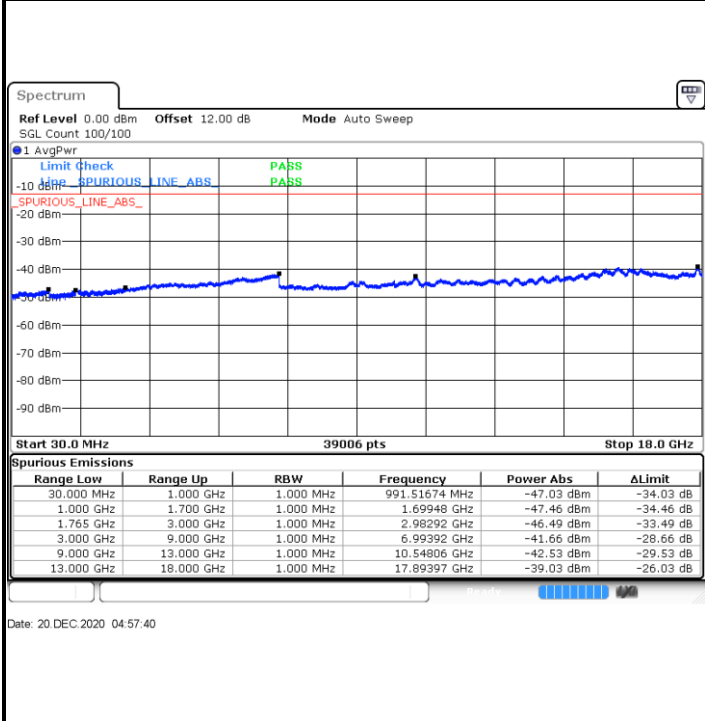
Highest Channel / QPSK



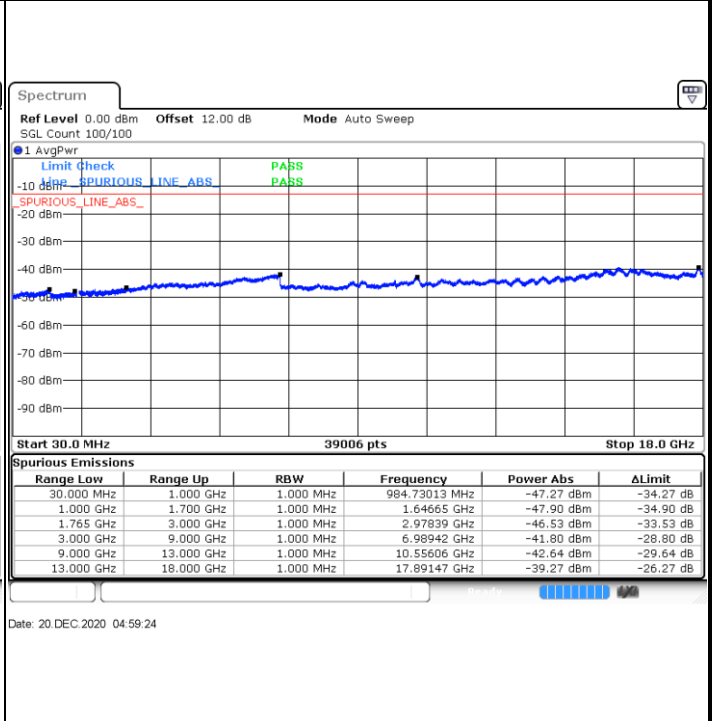


LTE Band 4 / 10MHz

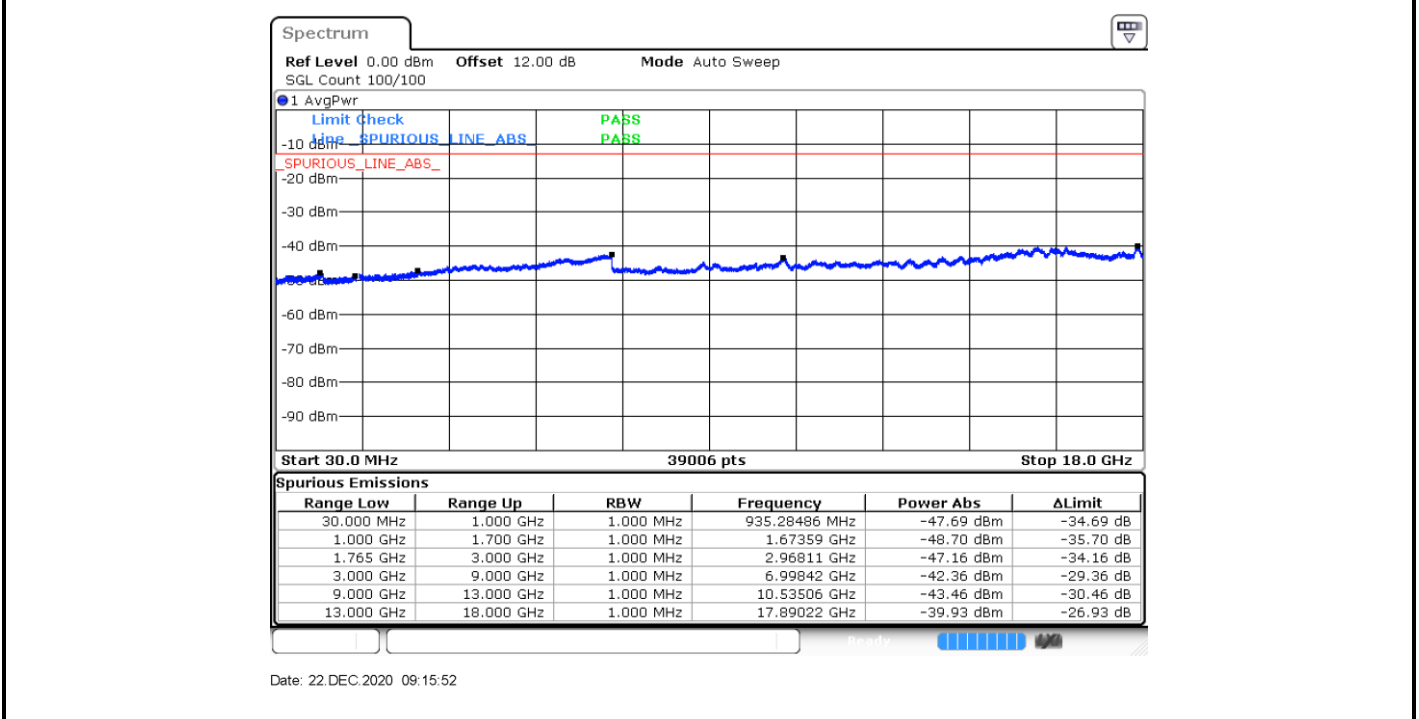
Lowest Channel / QPSK



Middle Channel / QPSK



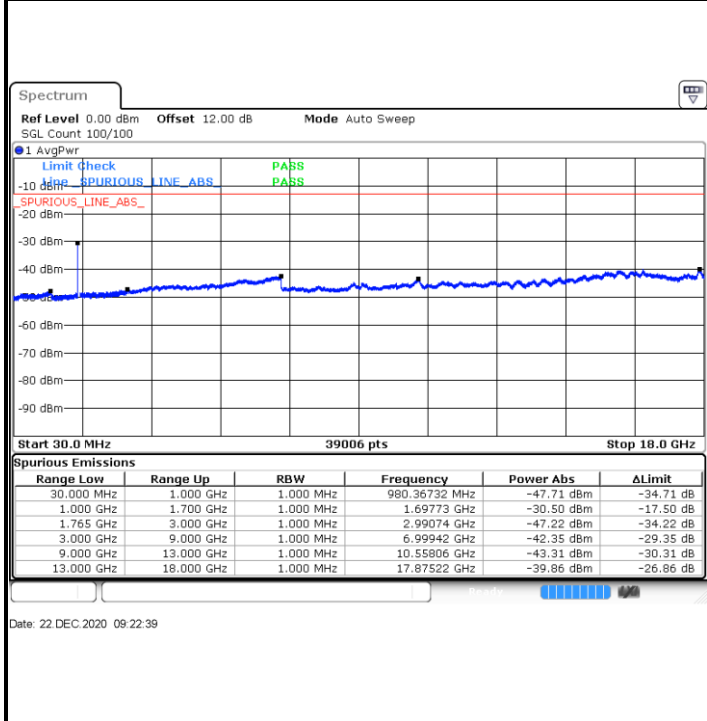
Highest Channel / QPSK



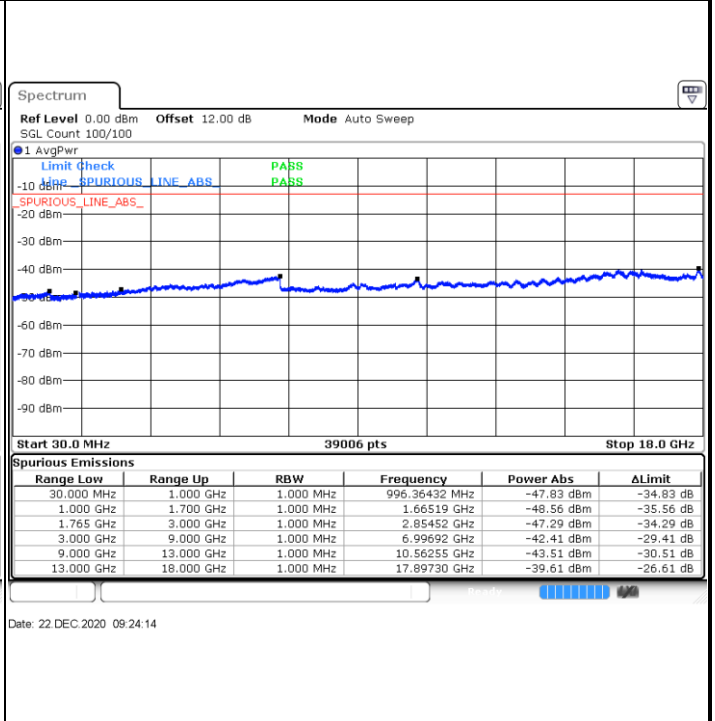


LTE Band 4 / 15MHz

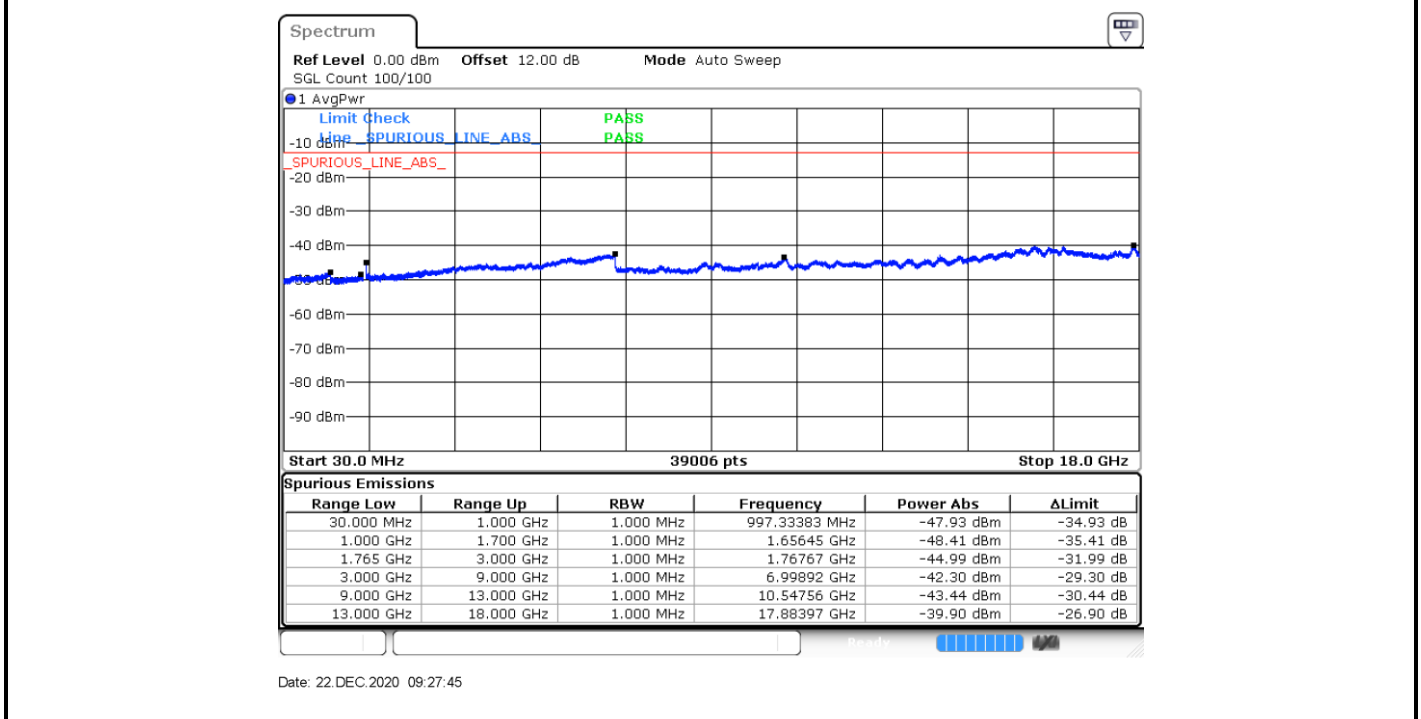
Lowest Channel / QPSK



Middle Channel / QPSK



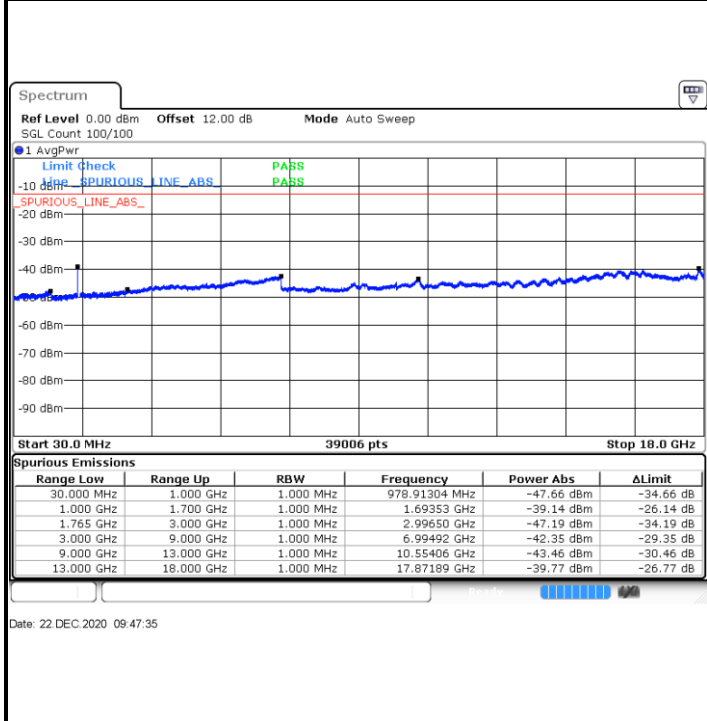
Highest Channel / QPSK



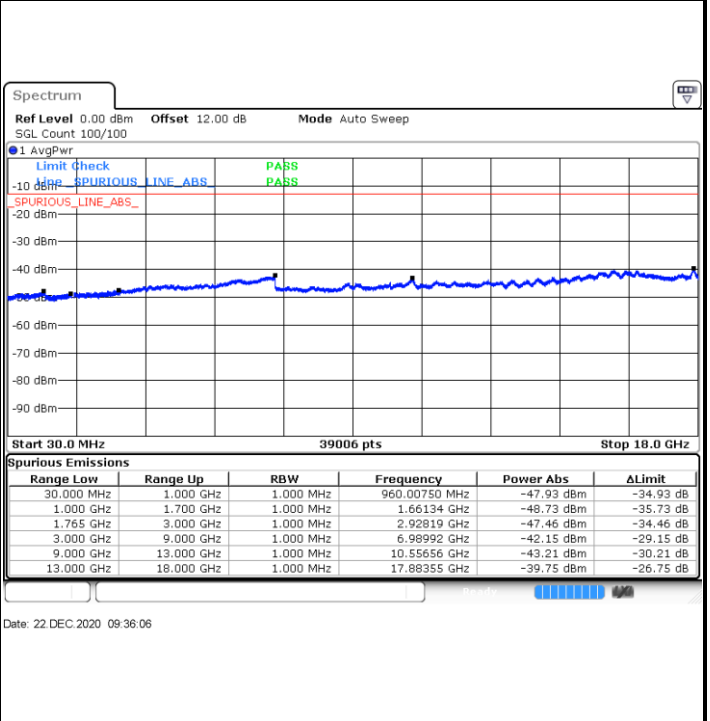


LTE Band 4 / 20MHz

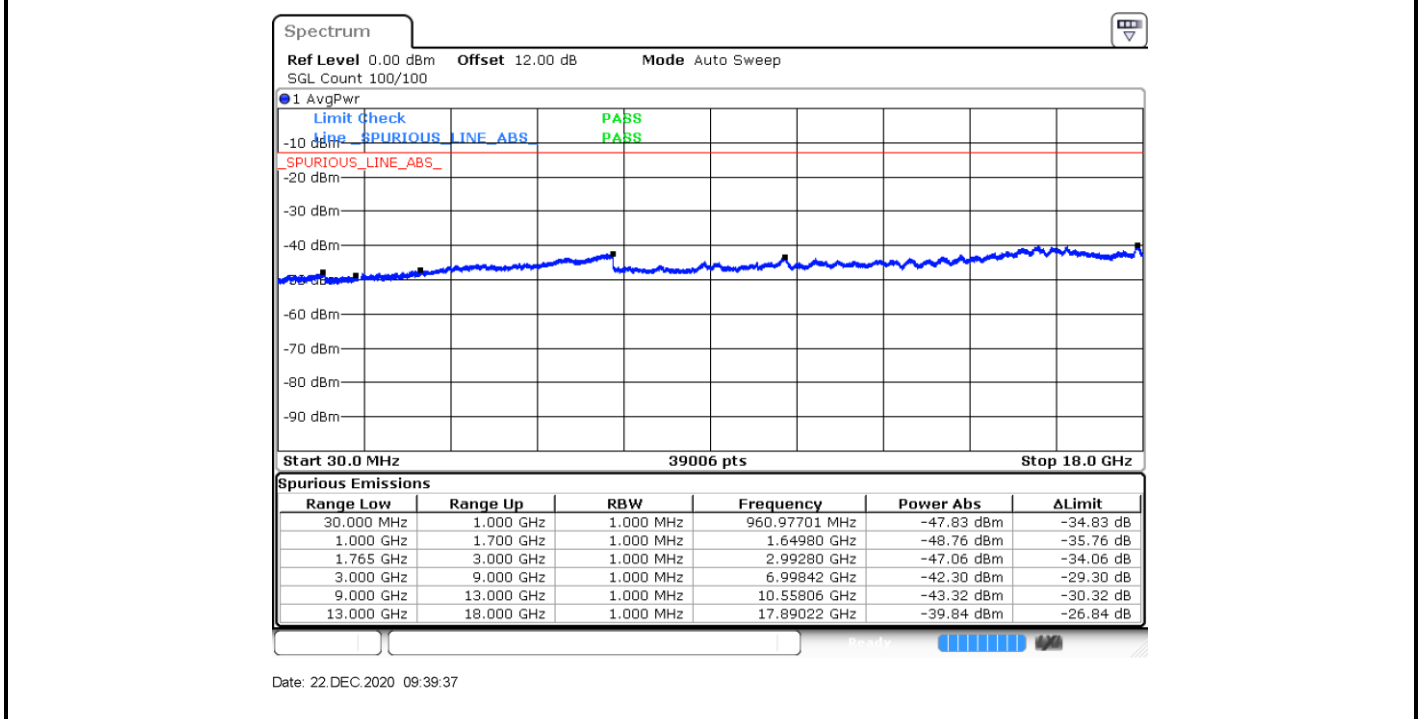
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0033	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0078	
-20	Normal Voltage	0.0055	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0083	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

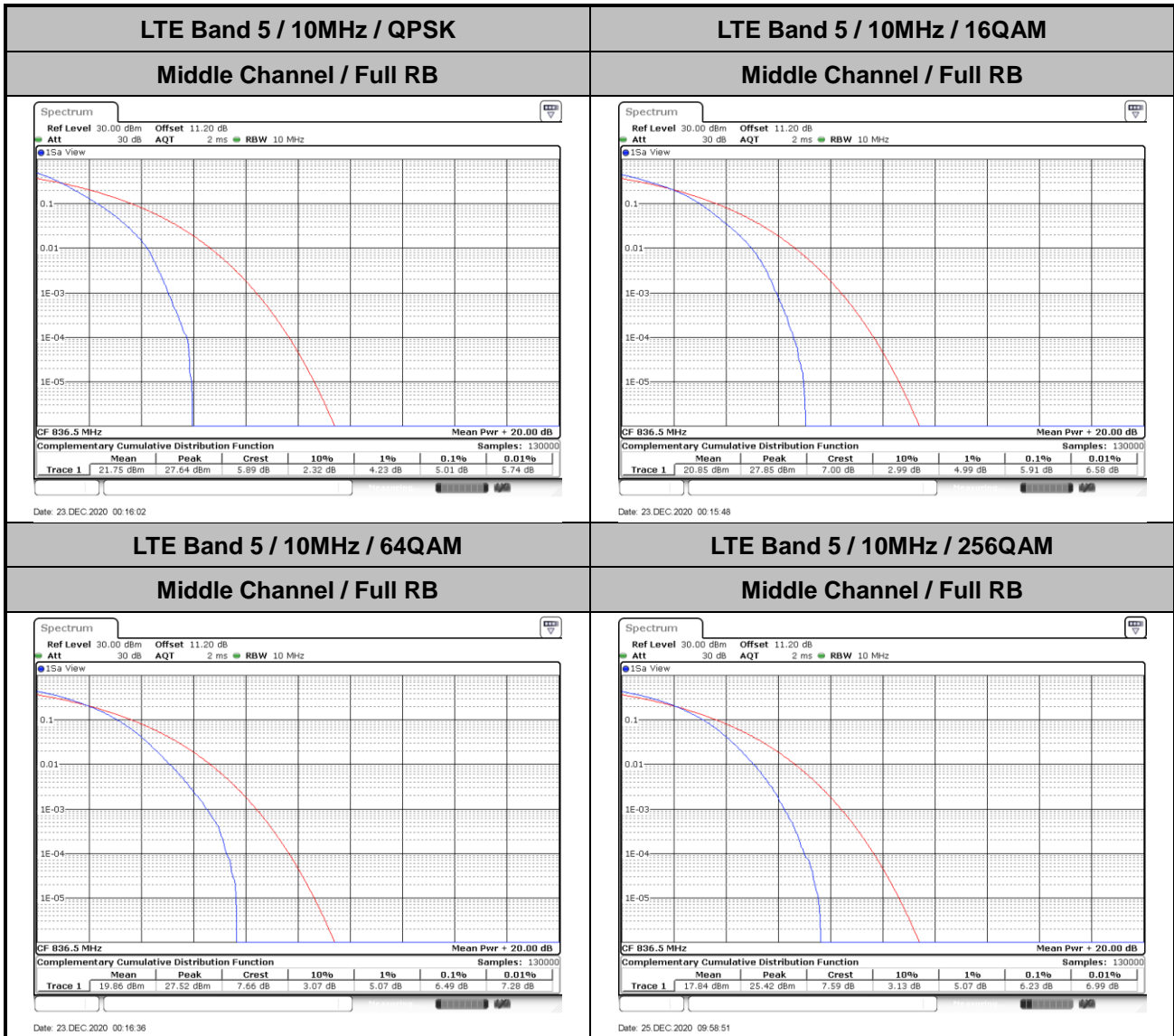
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.01	5.91	6.49	6.23	PASS





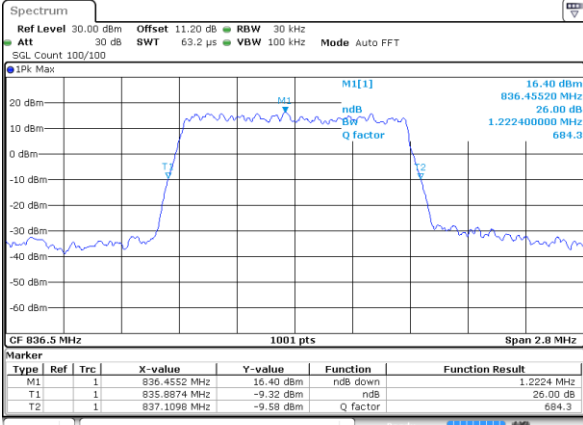
26dB Bandwidth

Mode	LTE Band 5 : 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	1.22	1.23	3.01	3.02	4.90	4.99	9.65	9.65	-	-	-	-
Mode	LTE Band 5 : 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	1.22	1.23	3.05	3.08	4.93	4.93	9.69	9.77	-	-	-	-



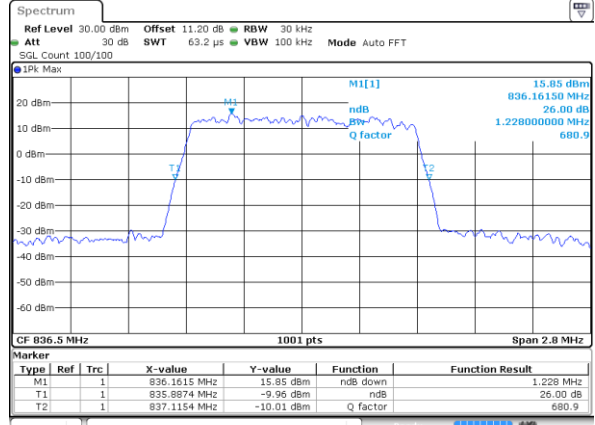
LTE Band 5

Middle Channel / 1.4MHz / QPSK



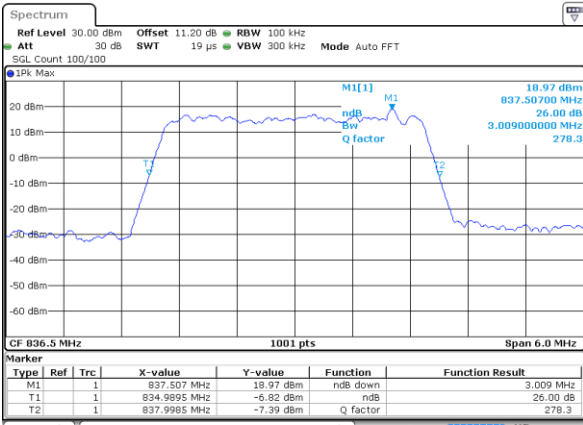
Date: 22 DEC 2020 19:28:12

Middle Channel / 1.4MHz / 16QAM



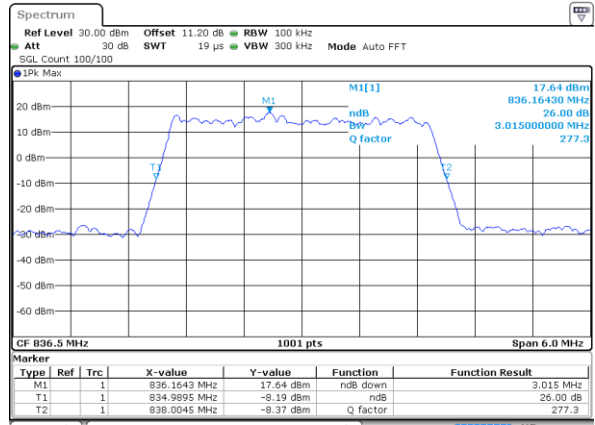
Date: 22 DEC 2020 19:28:25

Middle Channel / 3MHz / QPSK



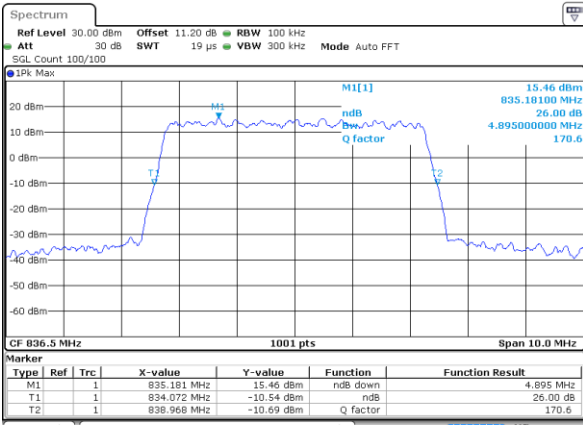
Date: 22 DEC 2020 20:04:06

Middle Channel / 3MHz / 16QAM



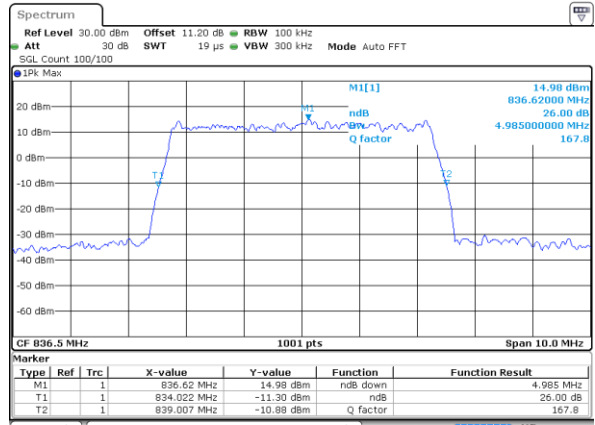
Date: 22 DEC 2020 20:04:19

Middle Channel / 5MHz / QPSK



Date: 22 DEC 2020 23:30:39

Middle Channel / 5MHz / 16QAM

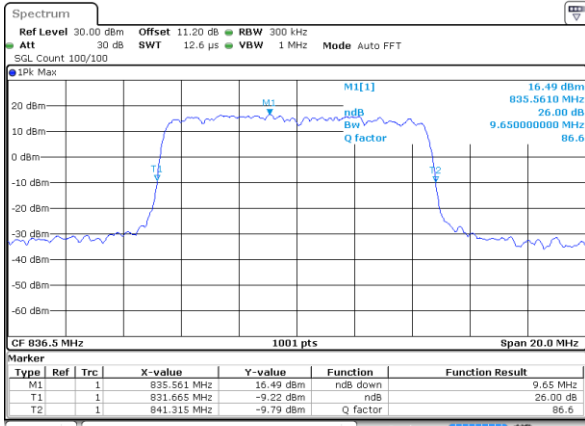


Date: 22 DEC 2020 23:30:52



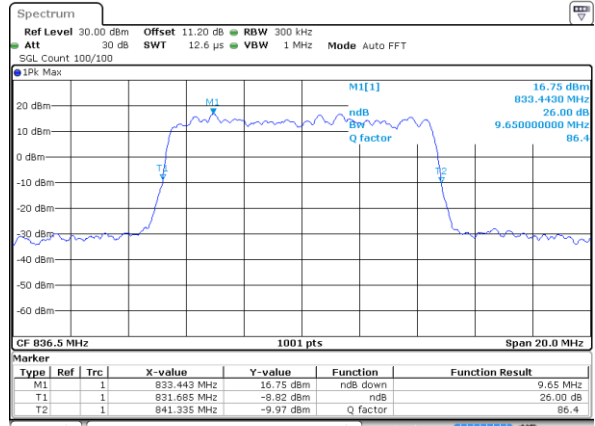
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 22 DEC 2020 23:55:01

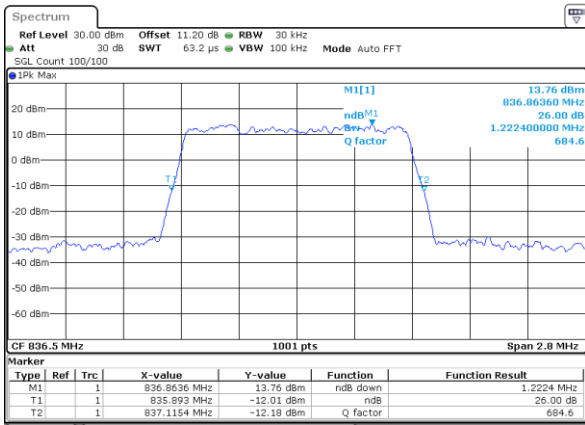
Middle Channel / 10MHz / 16QAM



Date: 22 DEC 2020 23:55:14

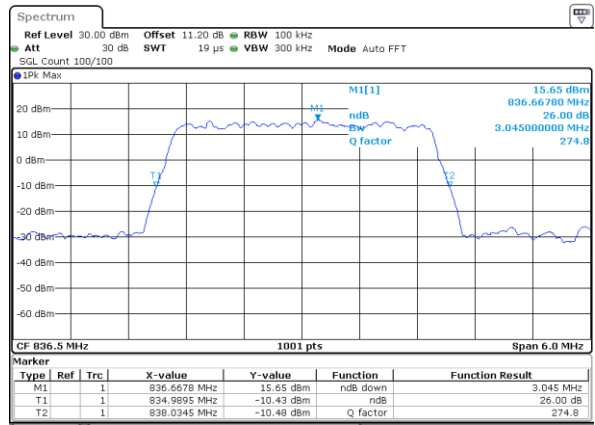
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



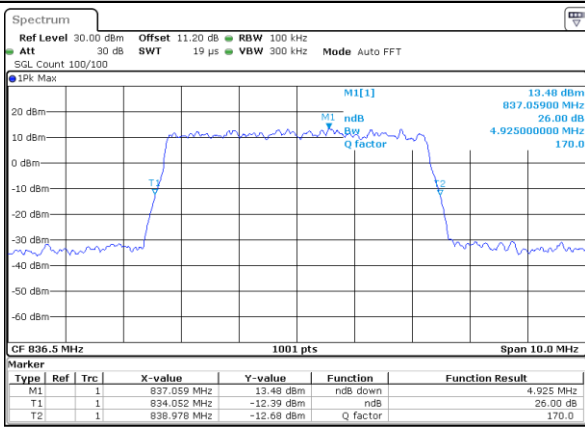
Date: 22 DEC 2020 19:40:48

Middle Channel / 3MHz / 64QAM



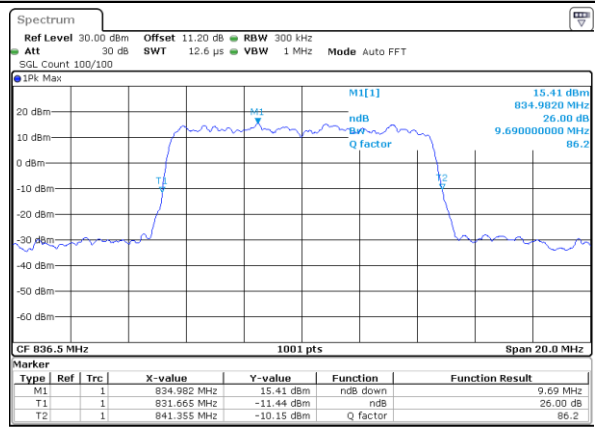
Date: 22 DEC 2020 20:16:42

Middle Channel / 5MHz / 64QAM



Date: 22 DEC 2020 23:43:15

Middle Channel / 10MHz / 64QAM

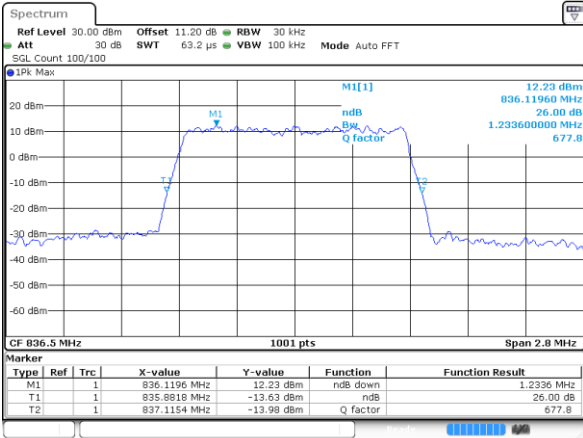


Date: 23 DEC 2020 00:07:38



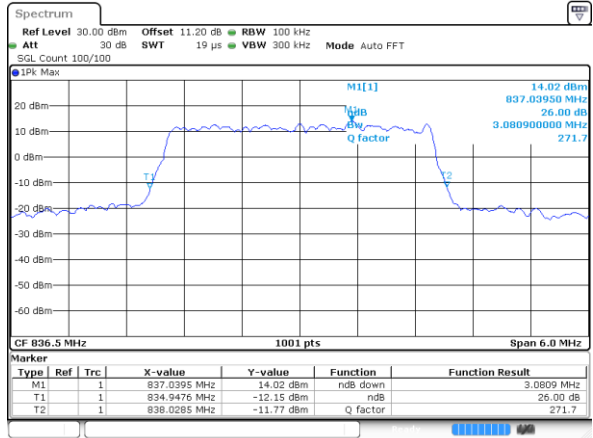
LTE Band 5

Middle Channel / 1.4MHz / 256QAM



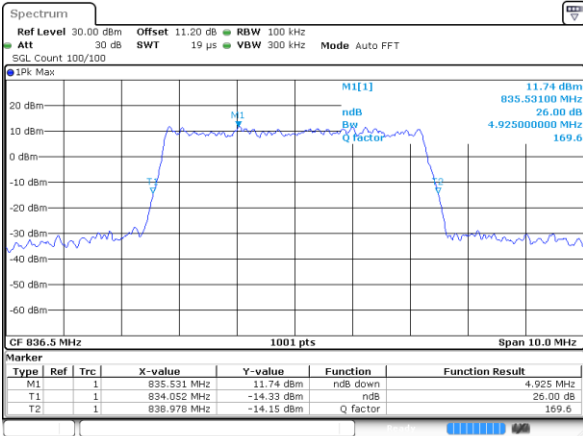
Date: 24 DEC 2020 16:35:00

Middle Channel / 3MHz / 256QAM



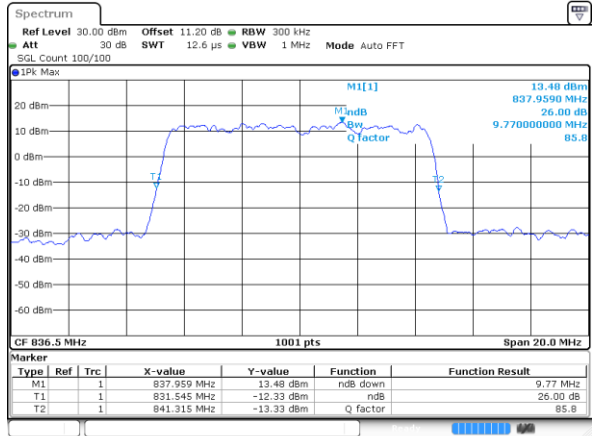
Date: 25 DEC 2020 08:38:51

Middle Channel / 5MHz / 256QAM



Date: 25 DEC 2020 09:58:09

Middle Channel / 10MHz / 256QAM



Date: 25 DEC 2020 09:57:05



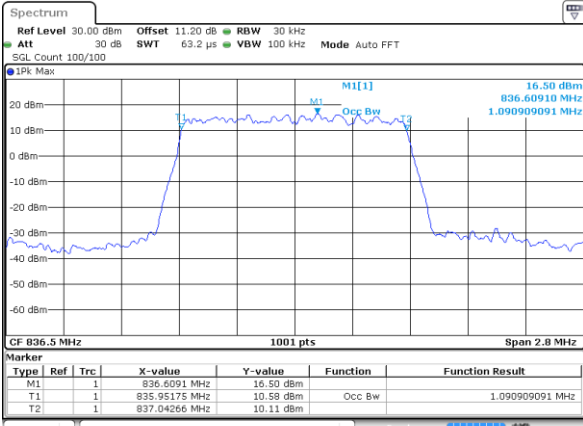
Occupied Bandwidth

Mode	LTE Band 5 : 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	1.09	1.09	2.71	2.72	4.47	4.50	9.03	8.99	-	-	-	-
Mode	LTE Band 5 : 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	1.08	2.73	2.73	4.49	4.47	8.97	9.03	-	-	-	-



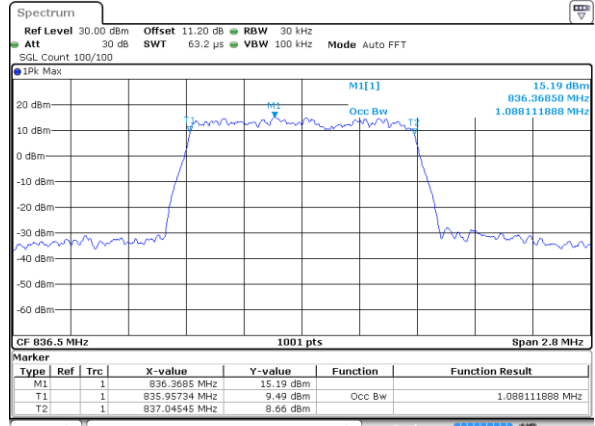
LTE Band 5

Middle Channel / 1.4MHz / QPSK



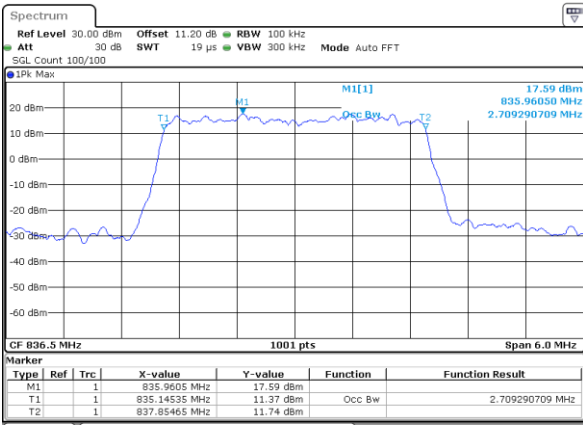
Date: 22 DEC 2020 19:27:46

Middle Channel / 1.4MHz / 16QAM



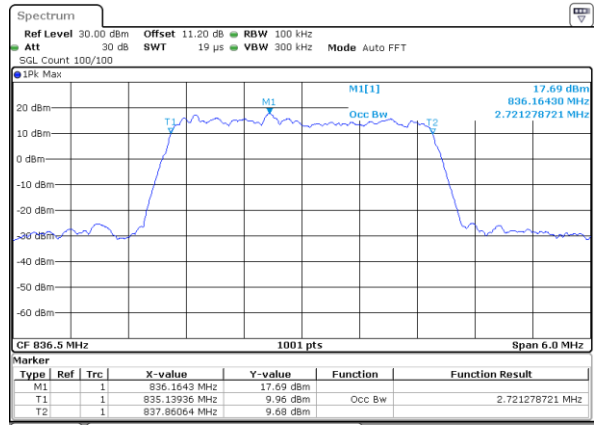
Date: 22 DEC 2020 19:27:59

Middle Channel / 3MHz / QPSK



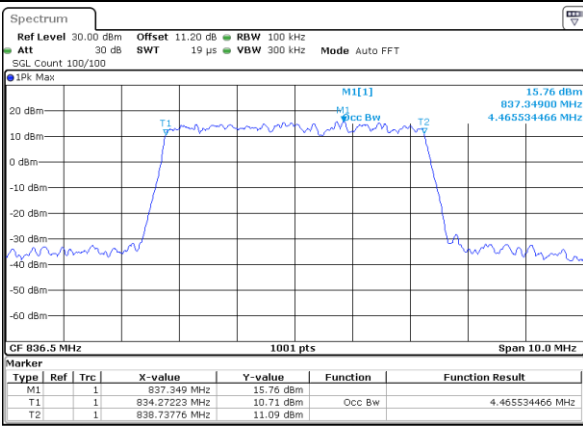
Date: 22 DEC 2020 20:03:40

Middle Channel / 3MHz / 16QAM



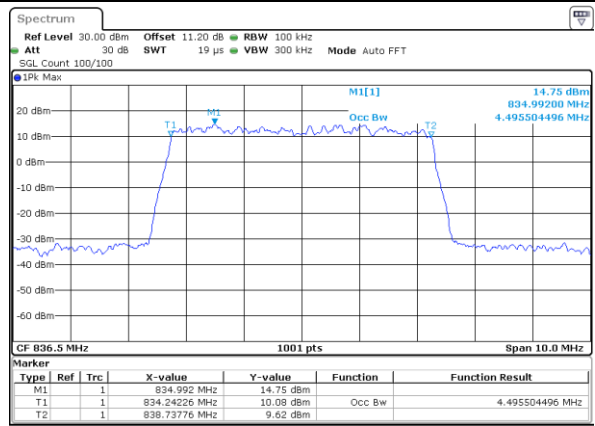
Date: 22 DEC 2020 20:03:53

Middle Channel / 5MHz / QPSK



Date: 22 DEC 2020 23:30:13

Middle Channel / 5MHz / 16QAM

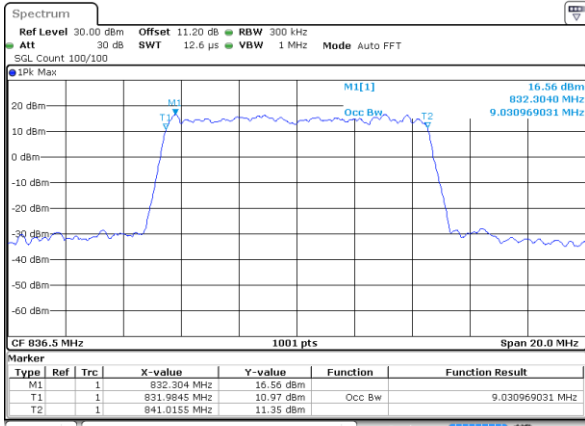


Date: 22 DEC 2020 23:30:26



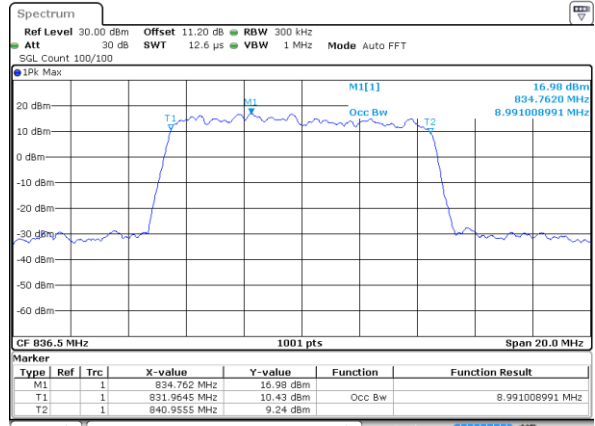
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 22 DEC 2020 23:54:35

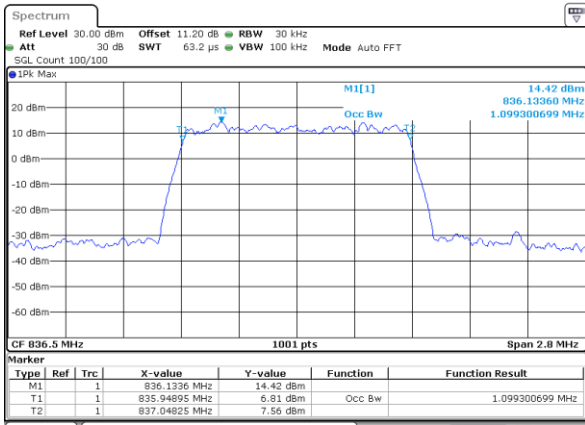
Middle Channel / 10MHz / 16QAM



Date: 22 DEC 2020 23:54:48

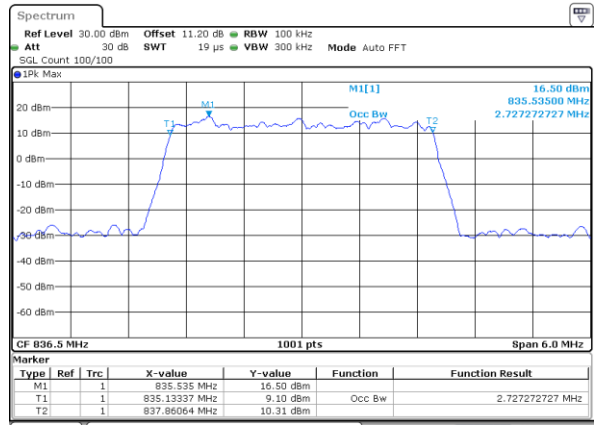
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



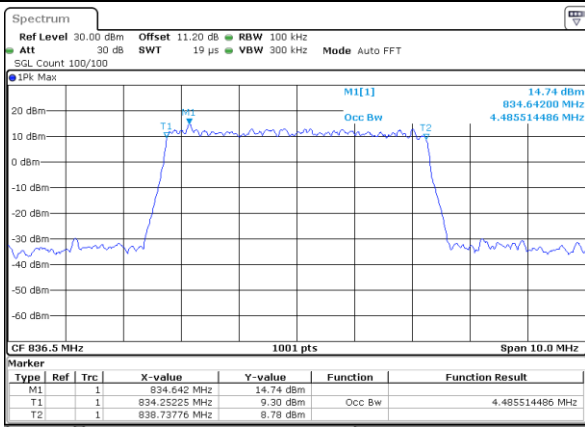
Date: 22 DEC 2020 19:40:36

Middle Channel / 3MHz / 64QAM



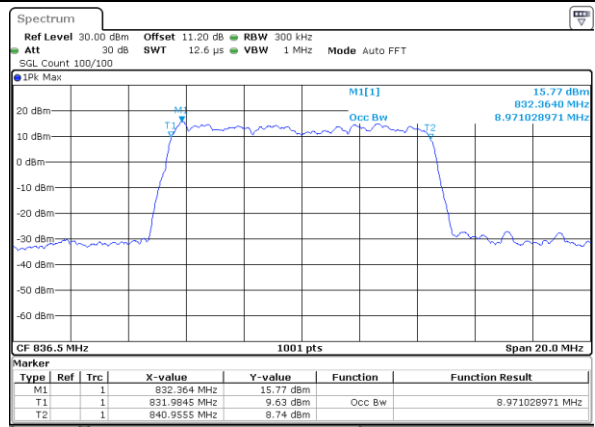
Date: 22 DEC 2020 20:16:29

Middle Channel / 5MHz / 64QAM



Date: 22 DEC 2020 23:43:02

Middle Channel / 10MHz / 64QAM

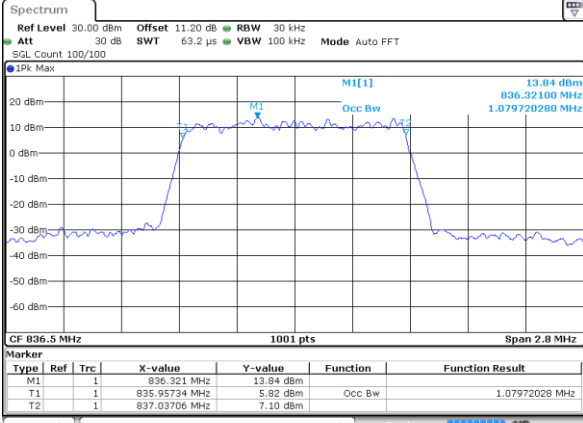


Date: 23 DEC 2020 00:07:25



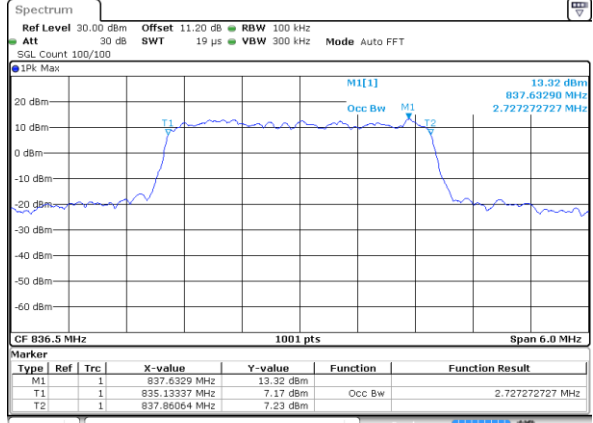
LTE Band 5

Middle Channel / 1.4MHz / 256QAM



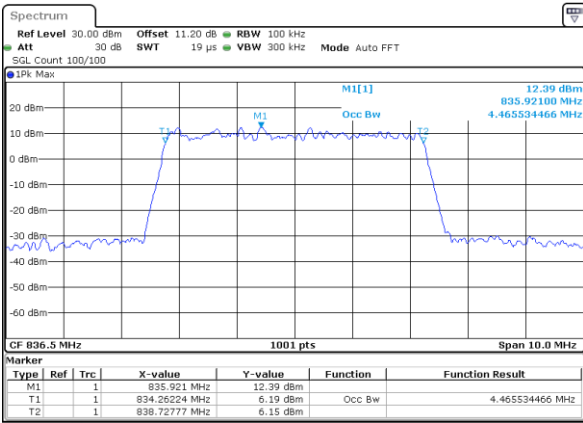
Date: 24 DEC 2020 16:34:39

Middle Channel / 3MHz / 256QAM



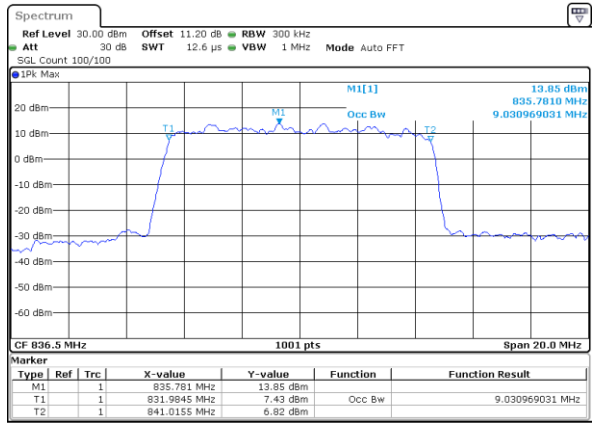
Date: 25 DEC 2020 08:37:59

Middle Channel / 5MHz / 256QAM



Date: 25 DEC 2020 09:57:45

Middle Channel / 10MHz / 256QAM



Date: 25 DEC 2020 09:58:29