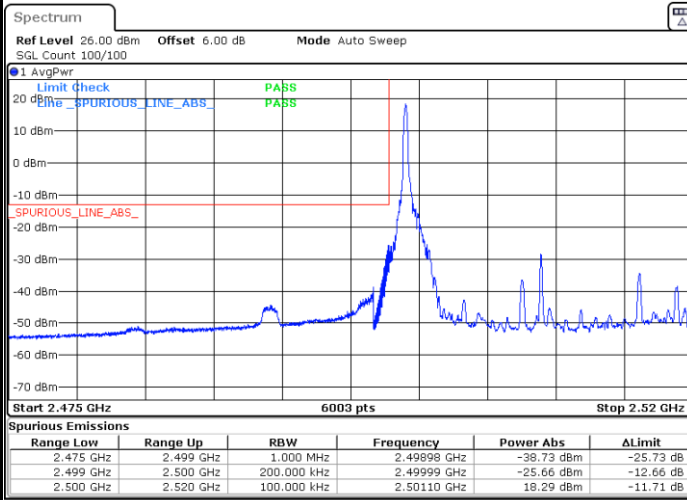




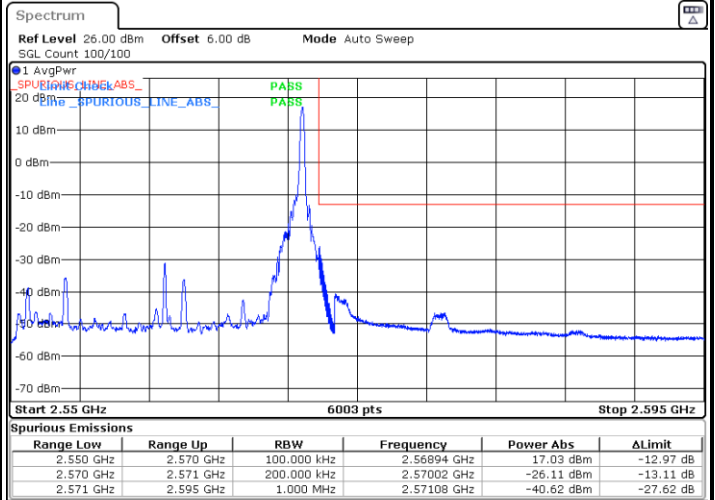
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



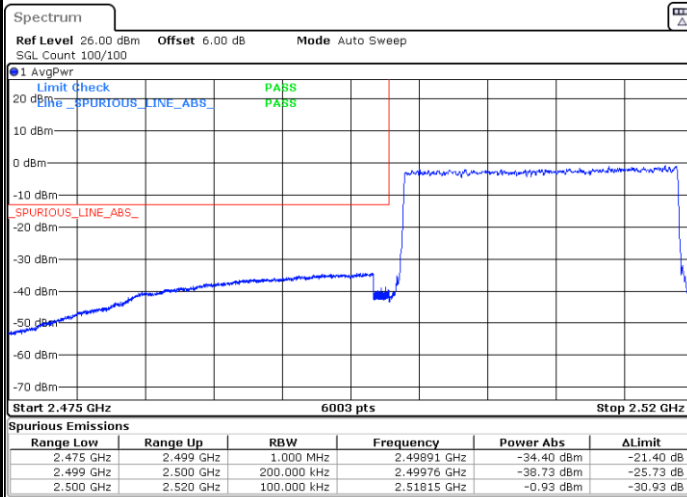
Date: 14 JUN.2023 22:07:25

Highest Band Edge / 1 RB



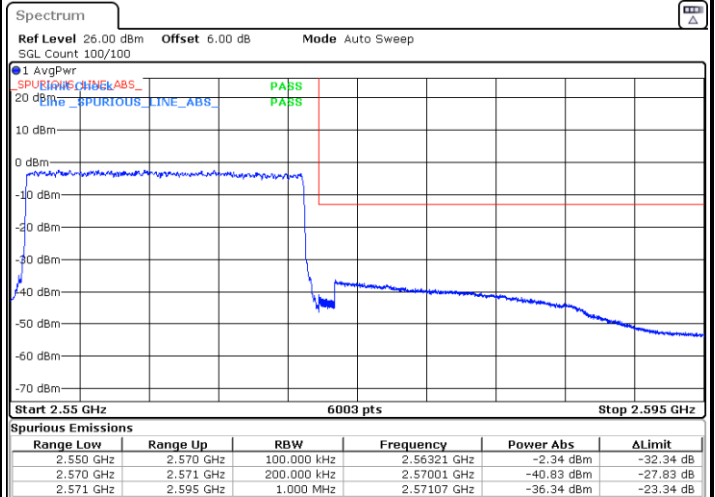
Date: 16 MAY.2023 04:38:31

Lowest Band Edge / Full RB



Date: 14 JUN.2023 22:11:10

Highest Band Edge / Full RB

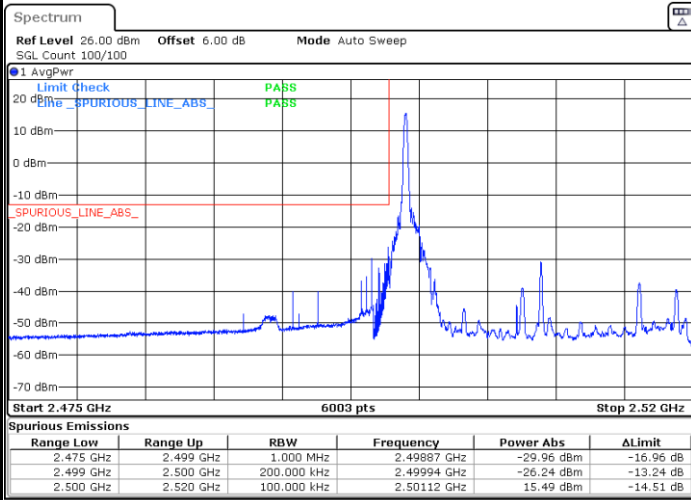


Date: 16 MAY.2023 04:41:27



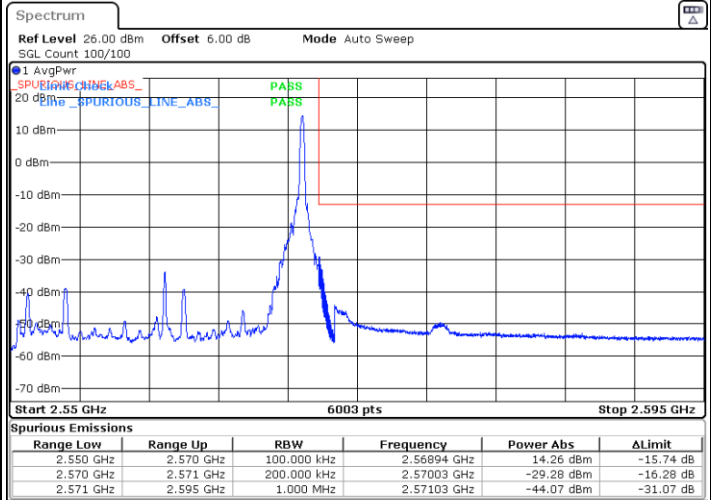
LTE Band 7 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



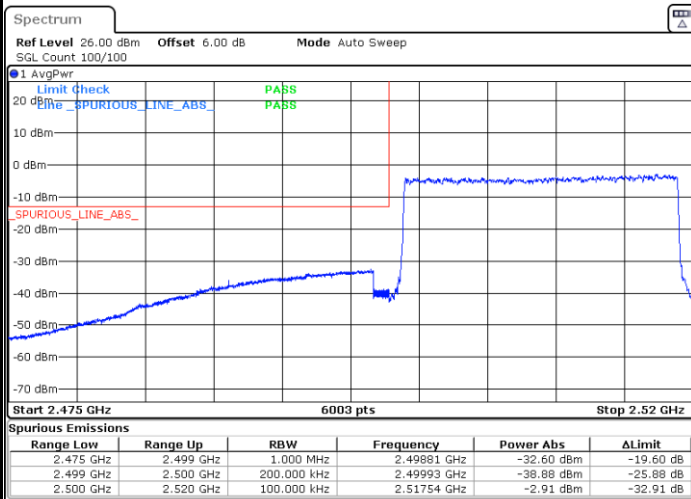
Date: 14. JUN. 2023 22:08:21

Highest Band Edge / 1 RB



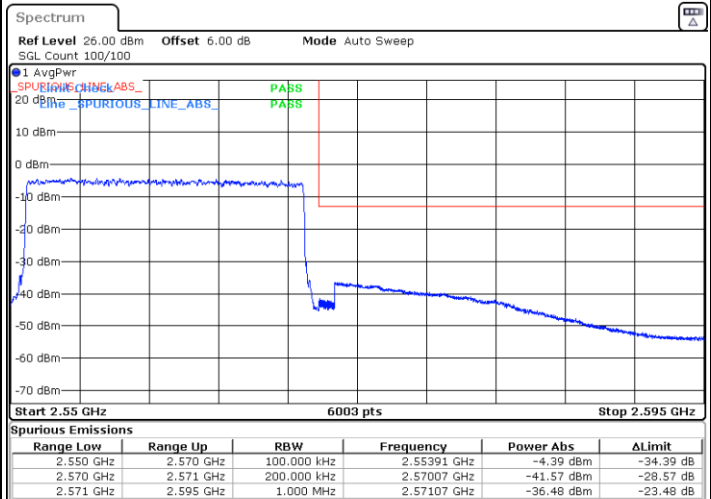
Date: 16. MAY. 2023 04:39:11

Lowest Band Edge / Full RB



Date: 14. JUN. 2023 22:12:06

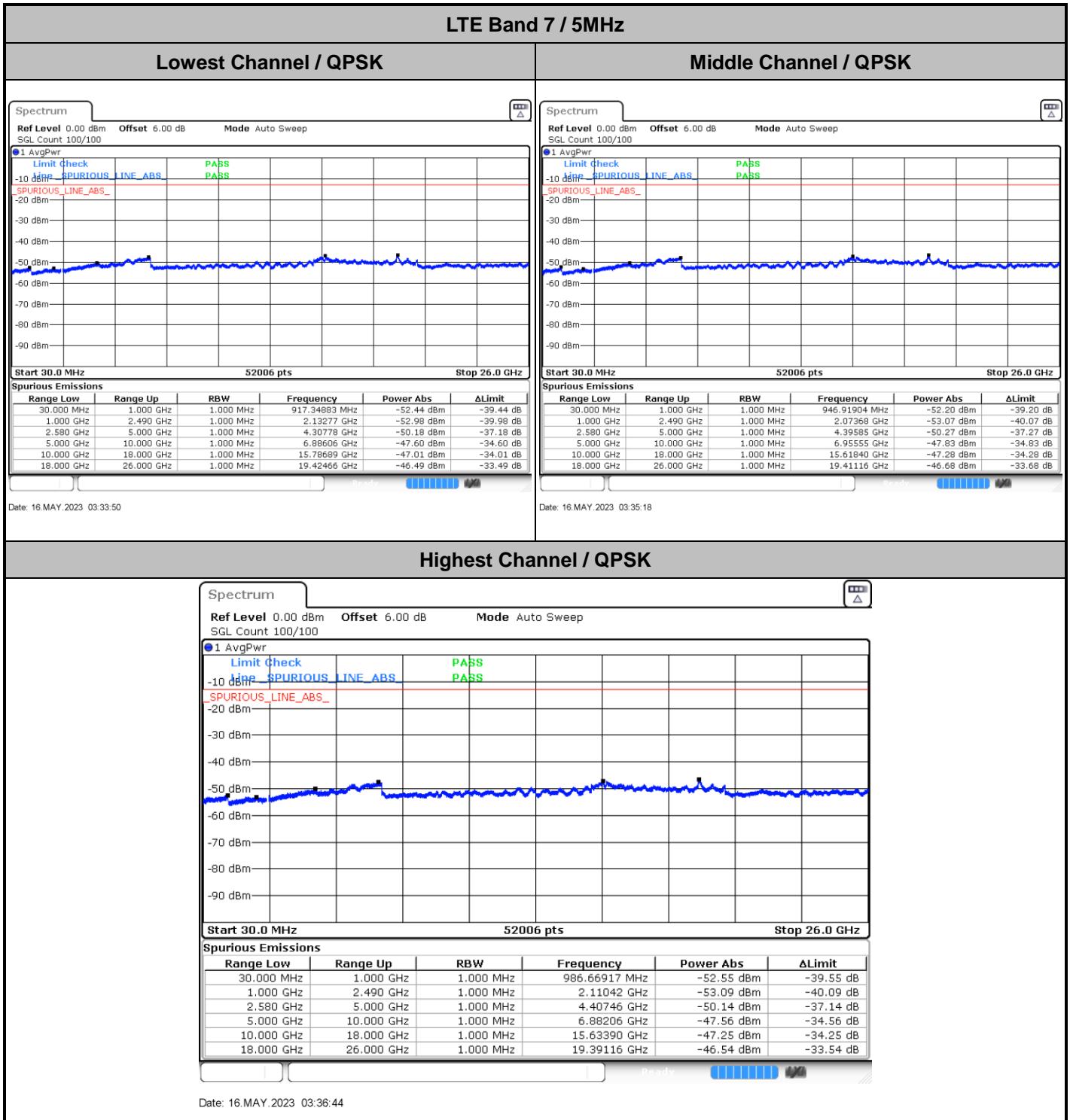
Highest Band Edge / Full RB



Date: 16. MAY. 2023 04:41:56



### A2.5 Conducted Spurious Emission

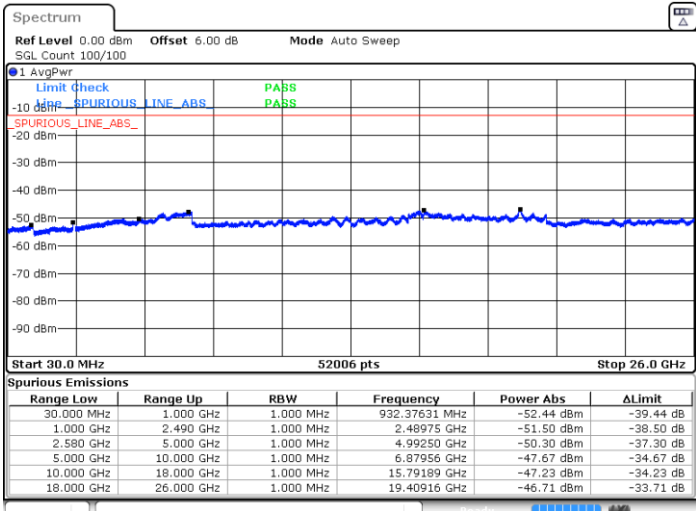




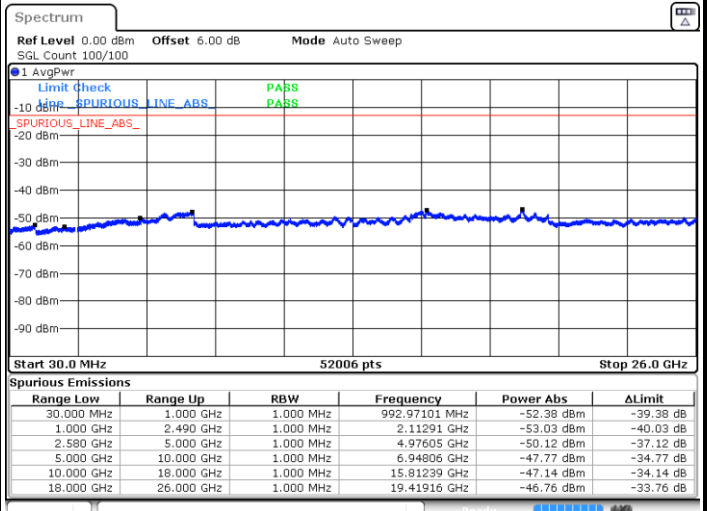
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

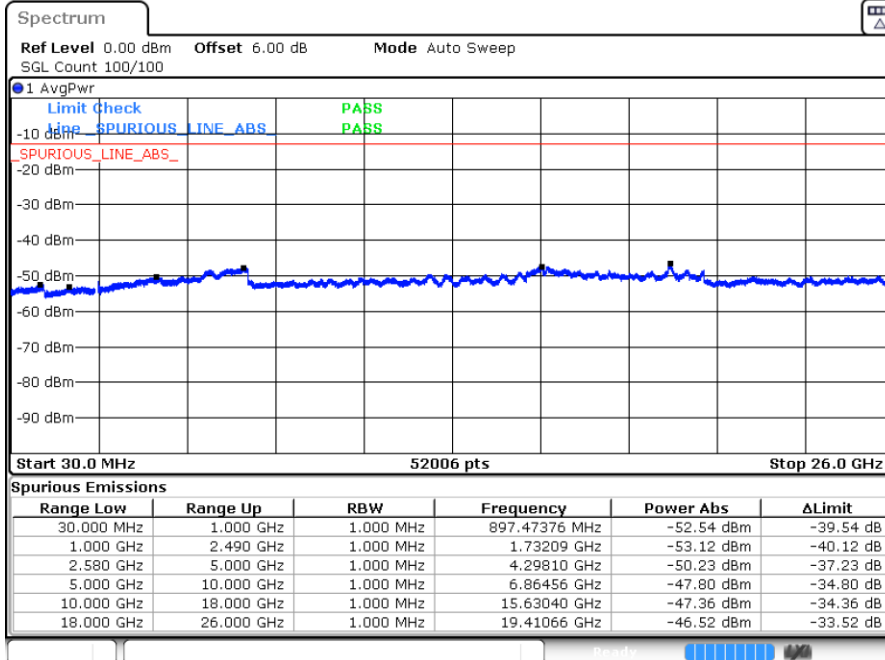


Date: 16.MAY.2023 03:49:22



Date: 16.MAY.2023 03:45:20

Highest Channel / QPSK



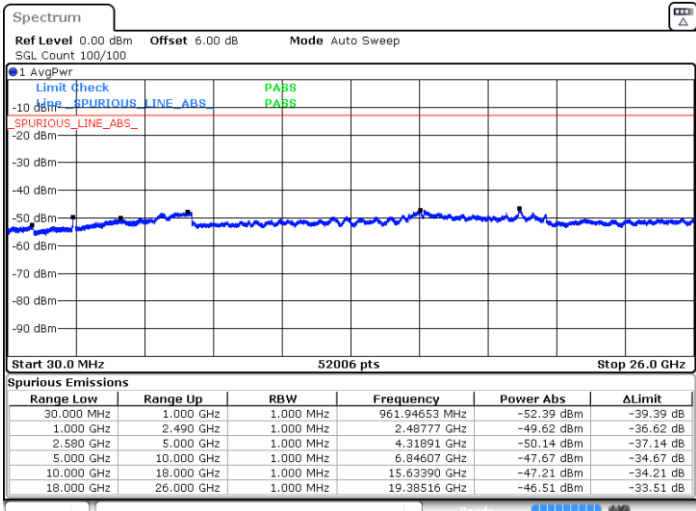
Date: 16.MAY.2023 03:50:41



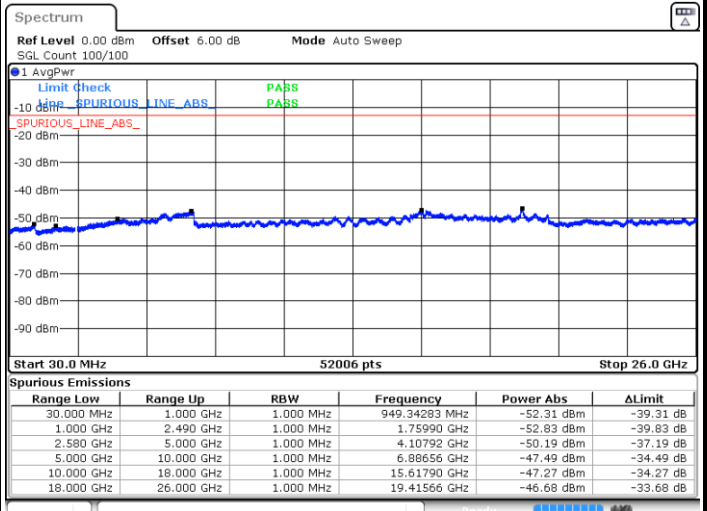
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

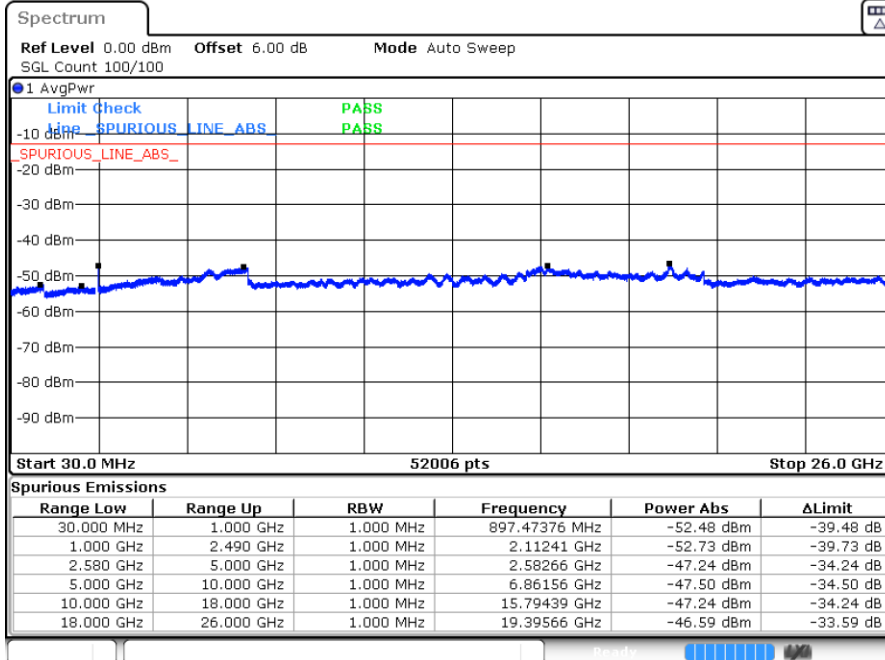


Date: 16.MAY.2023 04:02:52



Date: 16.MAY.2023 04:05:35

Highest Channel / QPSK



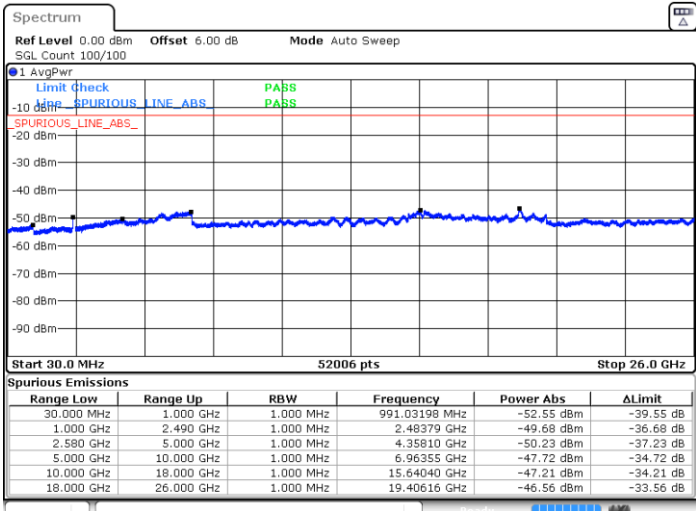
Date: 16.MAY.2023 04:09:34



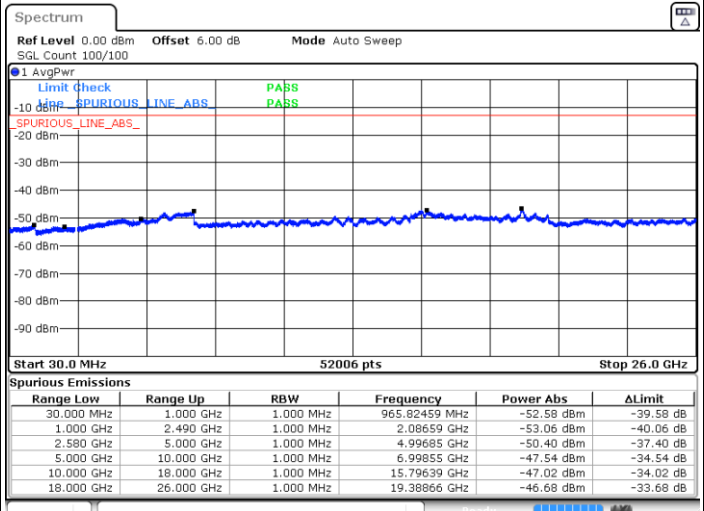
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

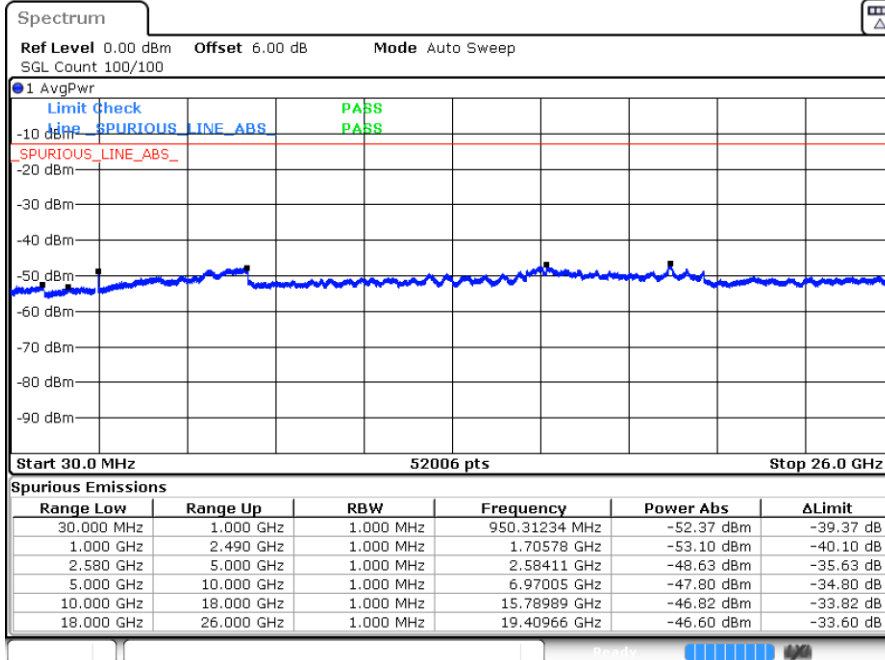


Date: 16.MAY.2023 04:26:57



Date: 16.MAY.2023 04:29:39

Highest Channel / QPSK



Date: 16.MAY.2023 04:33:40



A2.6 Frequency Stability

Test Conditions		LTE Band 7 (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	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0005	
20	Minimum Voltage	0.0016	

Note:

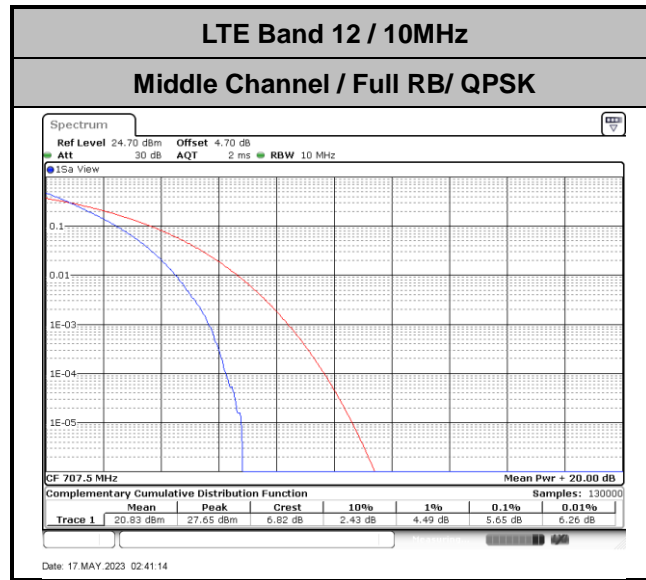
1. Normal Voltage =54 V ; Minimum Voltage =48 V. ; Maximum Voltage =57 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



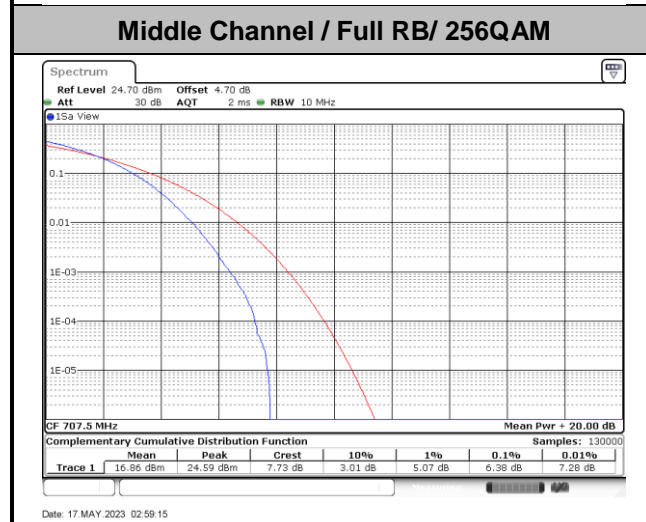
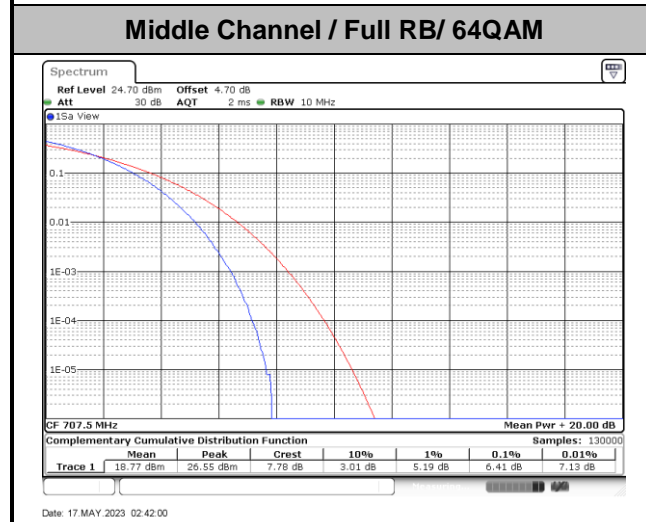
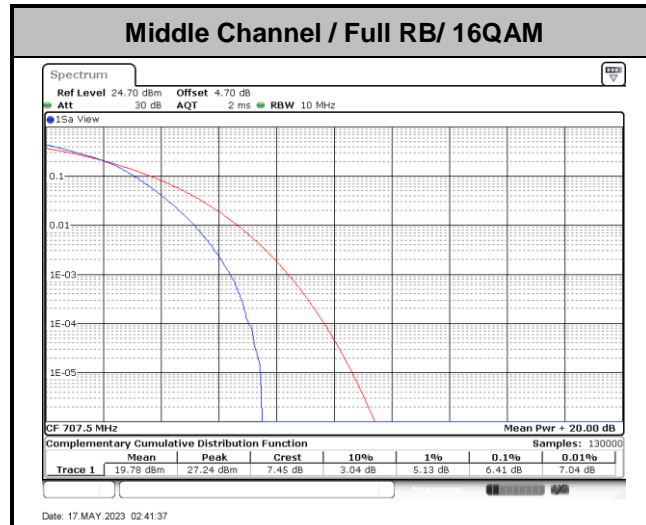
### A3. LTE Band 12

#### A3.1 Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.65	6.41	6.41	6.38	PASS









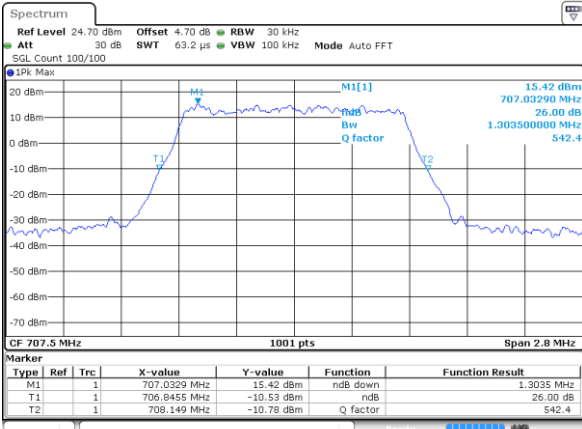
A3.2 26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)	
<b>BW</b>	<b>1.4MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	1.30	1.28
<b>Mod.</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	1.26	1.28
<b>BW</b>	<b>3MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	3.01	2.96
<b>Mod.</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	2.99	2.98
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.92	4.89
<b>Mod.</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	4.88	4.84
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.71	9.77
<b>Mod.</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	9.69	9.79



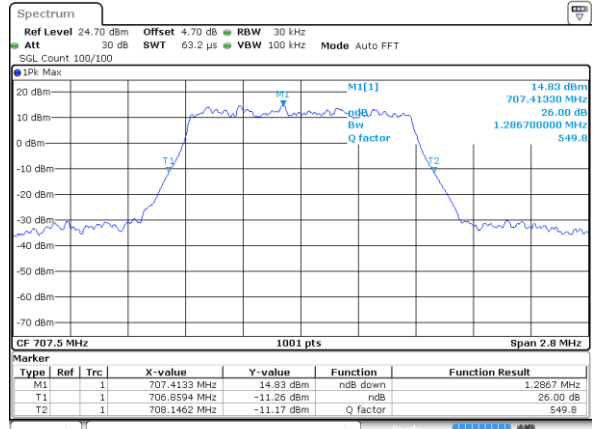
LTE Band 12

Middle Channel / 1.4MHz / QPSK



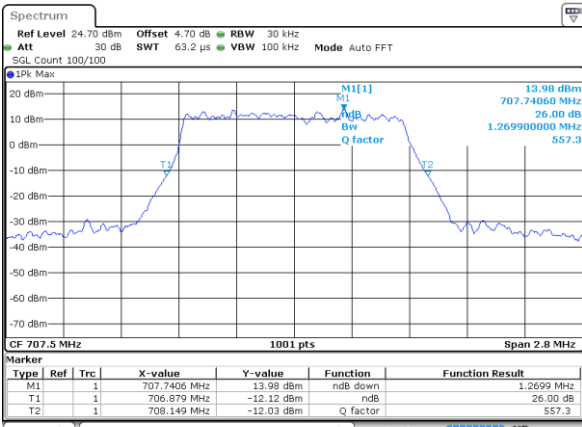
Date: 17 MAY 2023 03:08:07

Middle Channel / 1.4MHz / 16QAM



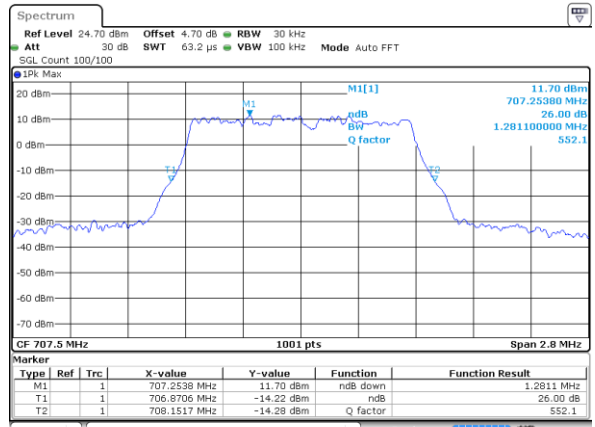
Date: 17 MAY 2023 03:07:46

Middle Channel / 1.4MHz / 64QAM



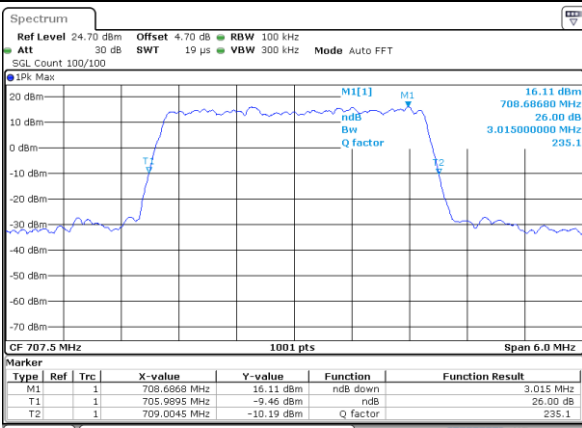
Date: 17 MAY 2023 05:31:07

Middle Channel / 1.4MHz / 256QAM



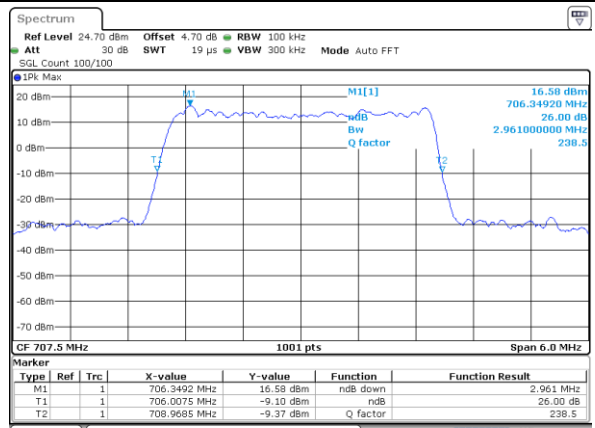
Date: 17 MAY 2023 05:31:30

Middle Channel / 3MHz / QPSK



Date: 17 MAY 2023 03:08:28

Middle Channel / 3MHz / 16QAM

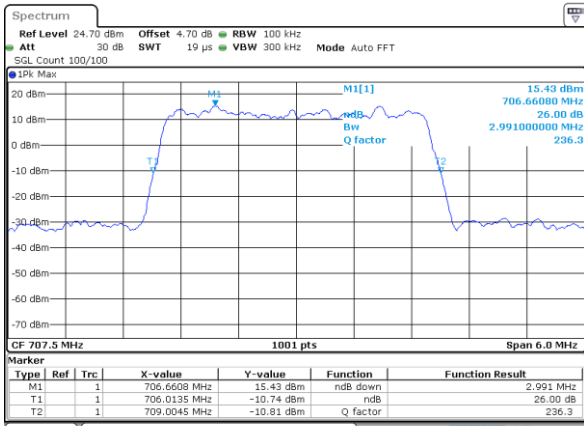


Date: 17 MAY 2023 03:08:49



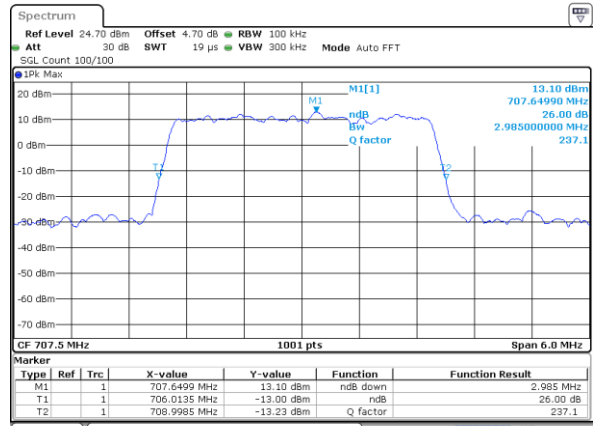
LTE Band 12

Middle Channel / 3MHz / 64QAM



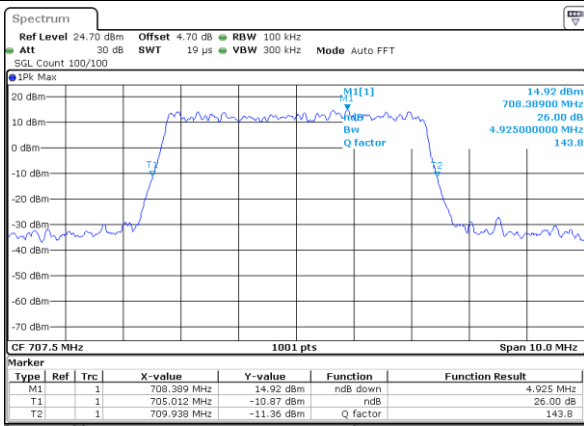
Date: 17 MAY 2023 05:33:21

Middle Channel / 3MHz / 256QAM



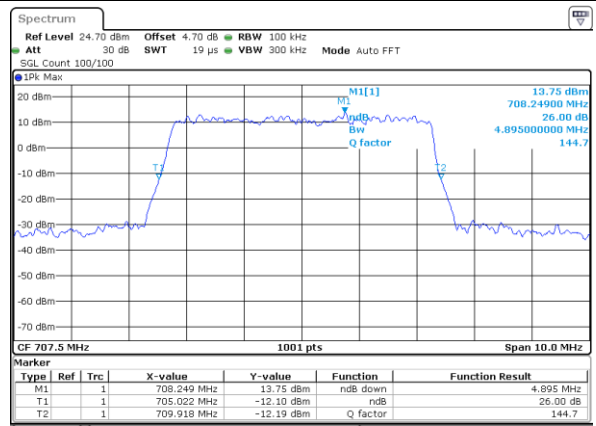
Date: 17 MAY 2023 05:34:08

Middle Channel / 5MHz / QPSK



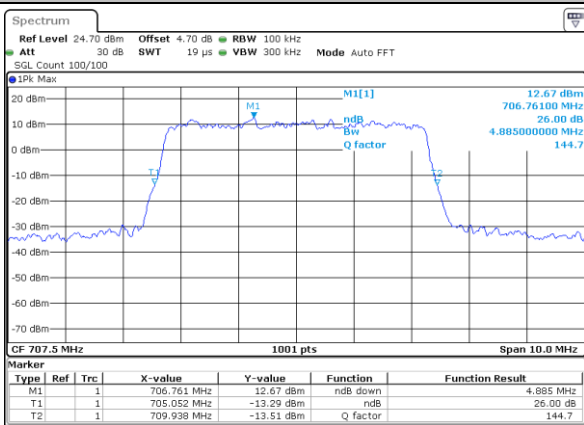
Date: 17 MAY 2023 03:10:55

Middle Channel / 5MHz / 16QAM



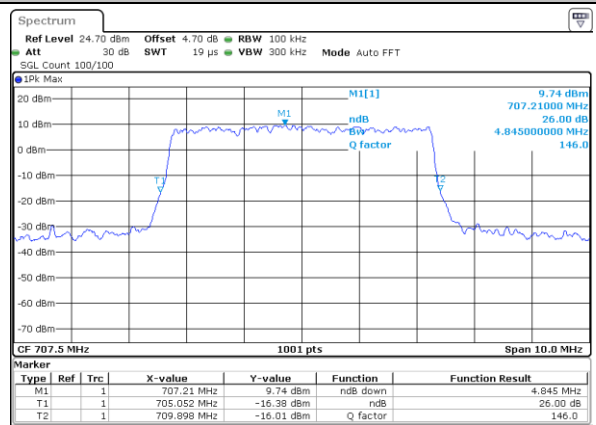
Date: 17 MAY 2023 03:10:34

Middle Channel / 5MHz / 64QAM



Date: 17 MAY 2023 05:35:58

Middle Channel / 5MHz / 256QAM

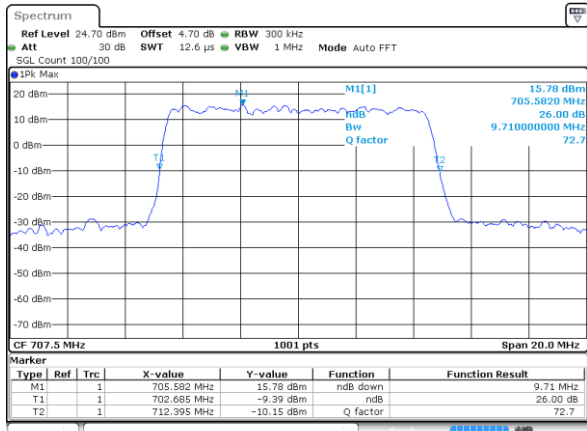


Date: 17 MAY 2023 05:35:13



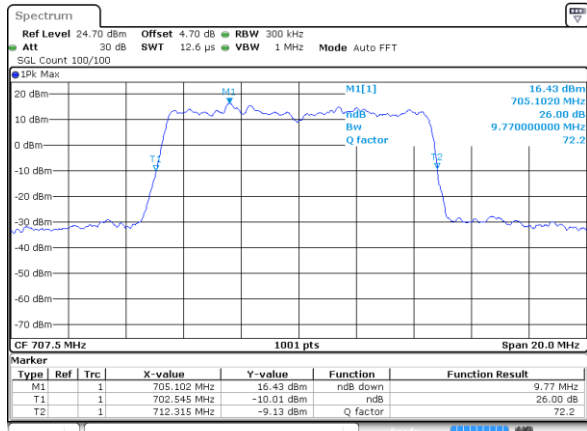
LTE Band 12

Middle Channel / 10MHz / QPSK



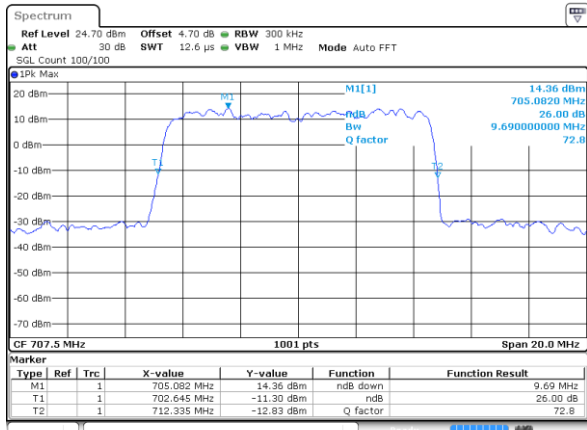
Date: 17 MAY 2023 02:43:05

Middle Channel / 10MHz / 16QAM



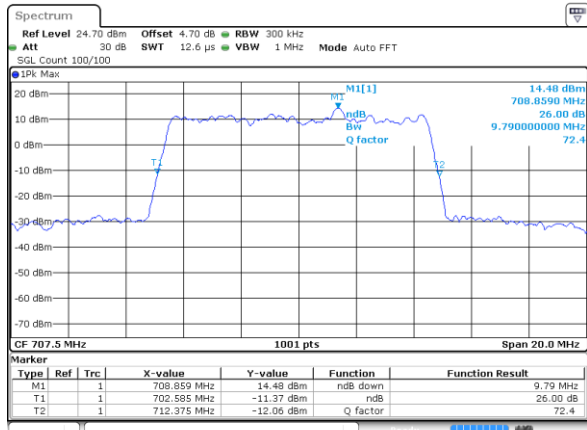
Date: 17 MAY 2023 02:43:26

Middle Channel / 10MHz / 64QAM



Date: 17 MAY 2023 05:36:53

Middle Channel / 10MHz / 256QAM



Date: 17 MAY 2023 05:37:37



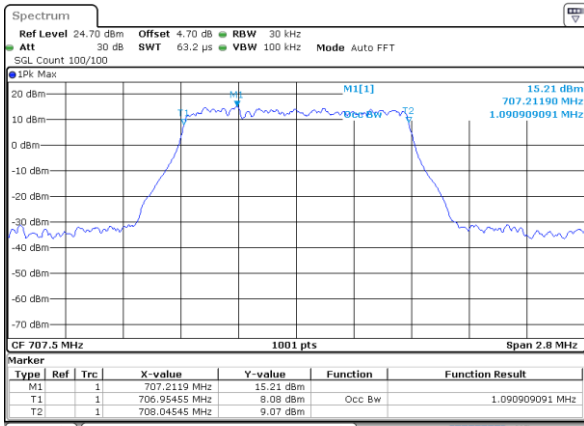
A3.3 Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
<b>BW</b>	<b>1.4MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	1.09	1.09
<b>Mod.</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	1.09	1.08
<b>BW</b>	<b>3MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	2.72	2.73
<b>Mod.</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	2.72	2.71
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.49	4.49
<b>Mod.</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	4.50	4.47
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.05	9.03
<b>Mod.</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	8.99	9.03



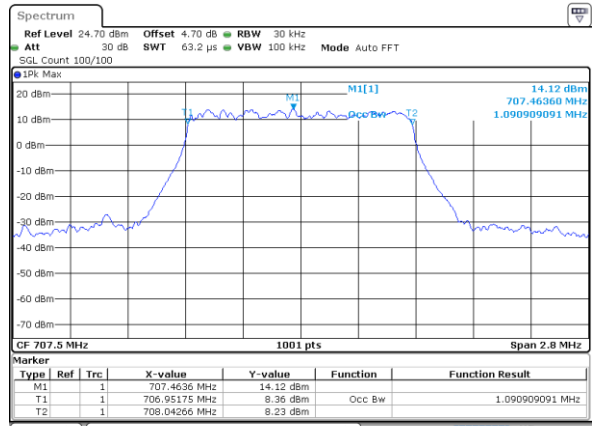
LTE Band 12

Middle Channel / 1.4MHz / QPSK



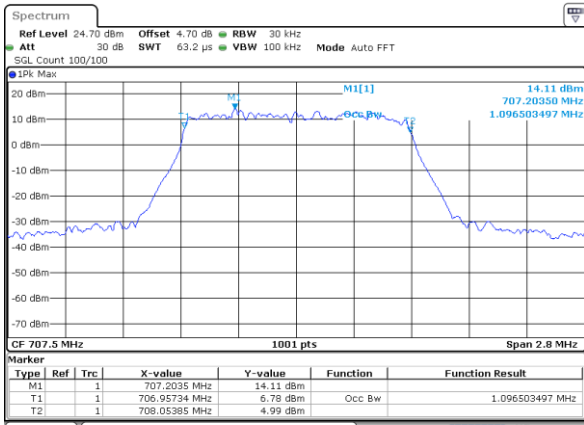
Date: 17 MAY 2023 03:07:04

Middle Channel / 1.4MHz / 16QAM



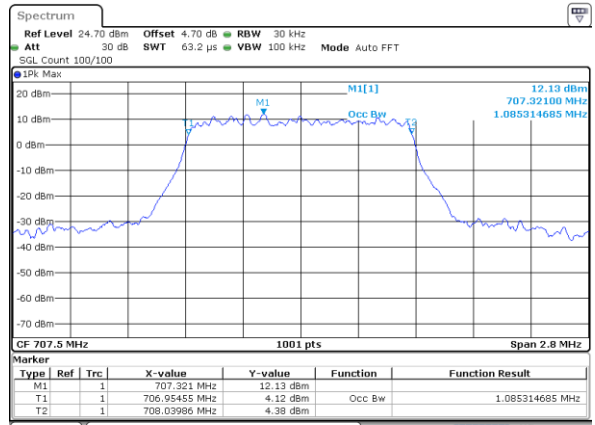
Date: 17 MAY 2023 03:07:25

Middle Channel / 1.4MHz / 64QAM



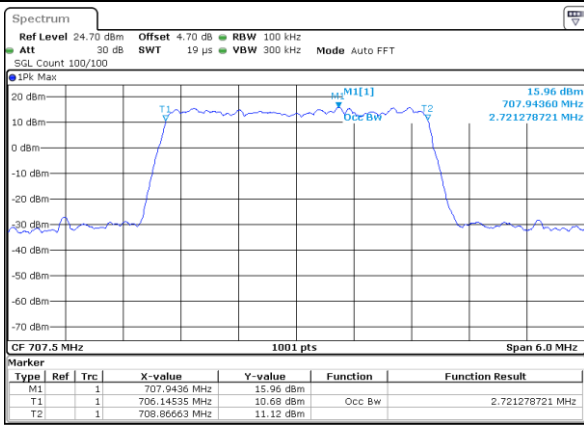
Date: 17 MAY 2023 05:32:30

Middle Channel / 1.4MHz / 256QAM



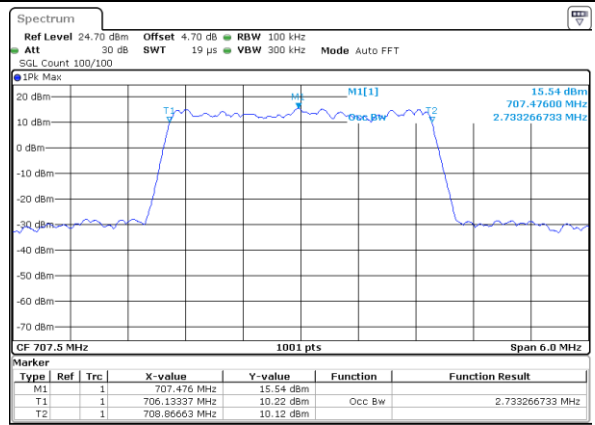
Date: 17 MAY 2023 05:32:00

Middle Channel / 3MHz / QPSK



Date: 17 MAY 2023 03:09:31

Middle Channel / 3MHz / 16QAM

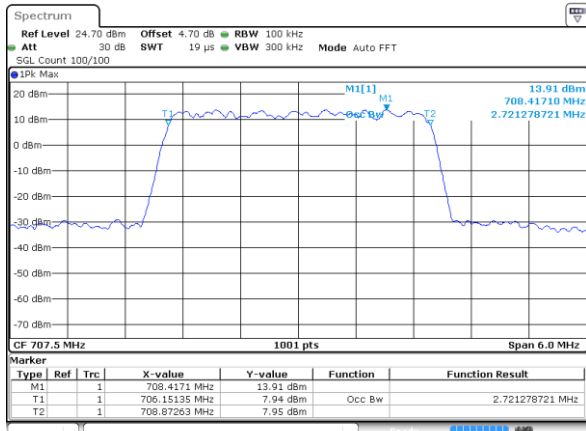


Date: 17 MAY 2023 03:09:10



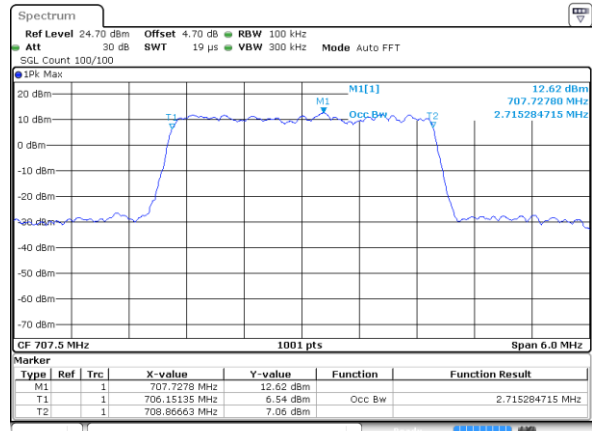
LTE Band 12

Middle Channel / 3MHz / 64QAM



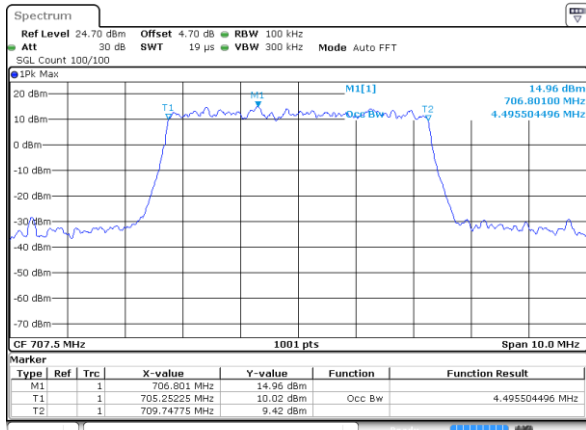
Date: 17 MAY 2023 05:33:02

Middle Channel / 3MHz / 256QAM



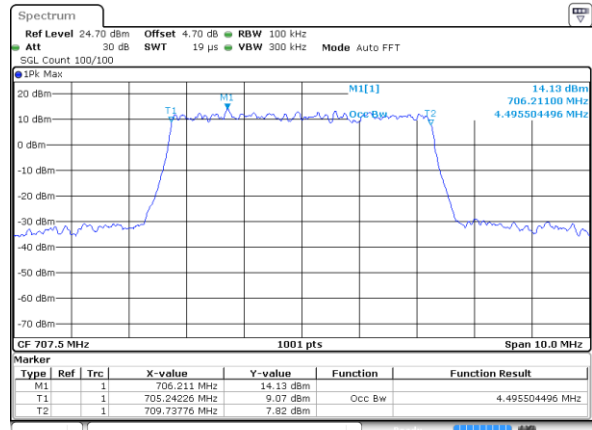
Date: 17 MAY 2023 05:33:45

Middle Channel / 5MHz / QPSK



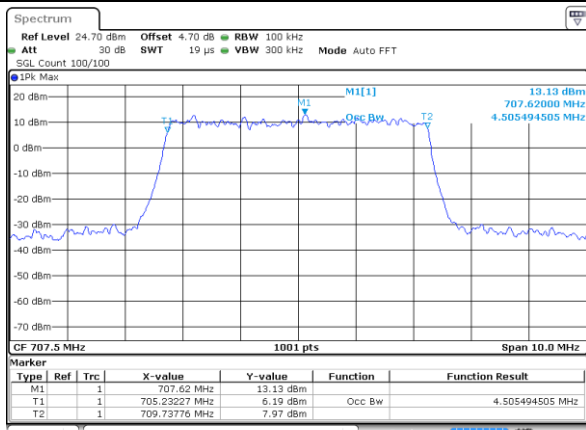
Date: 17 MAY 2023 03:09:53

Middle Channel / 5MHz / 16QAM



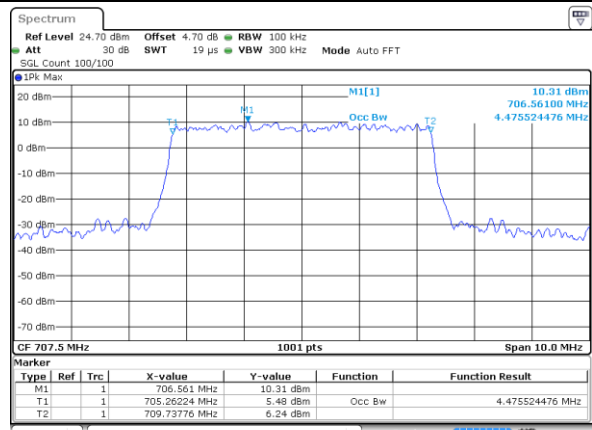
Date: 17 MAY 2023 03:10:14

Middle Channel / 5MHz / 64QAM



Date: 17 MAY 2023 05:35:38

Middle Channel / 5MHz / 256QAM



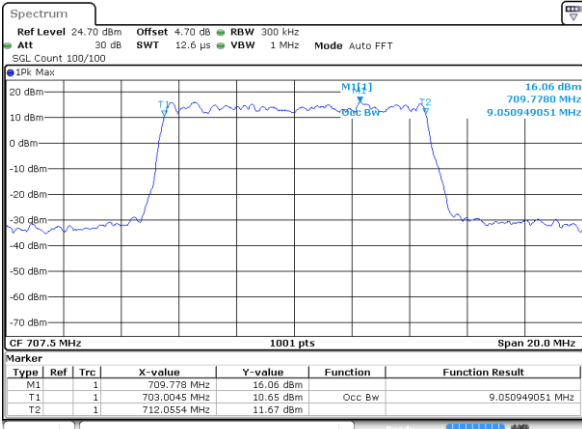
Date: 17 MAY 2023 05:34:52





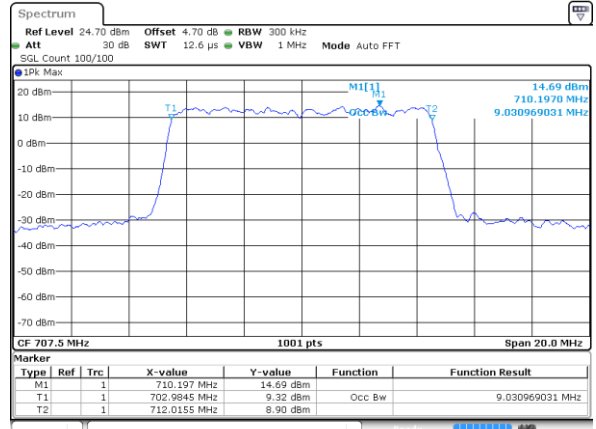
LTE Band 12

Middle Channel / 10MHz / QPSK



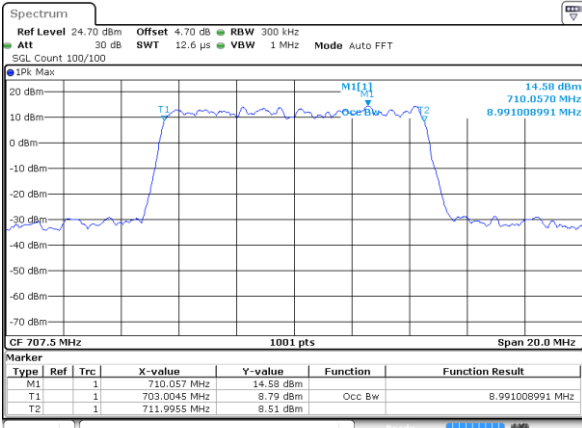
Date: 17 MAY 2023 02:42:21

Middle Channel / 10MHz / 16QAM



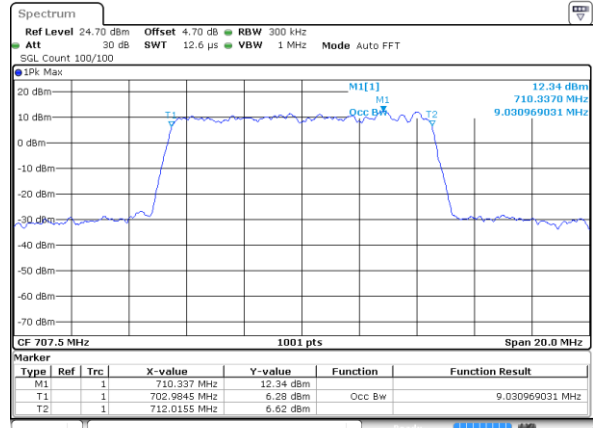
Date: 17 MAY 2023 02:42:43

Middle Channel / 10MHz / 64QAM



Date: 17 MAY 2023 05:36:31

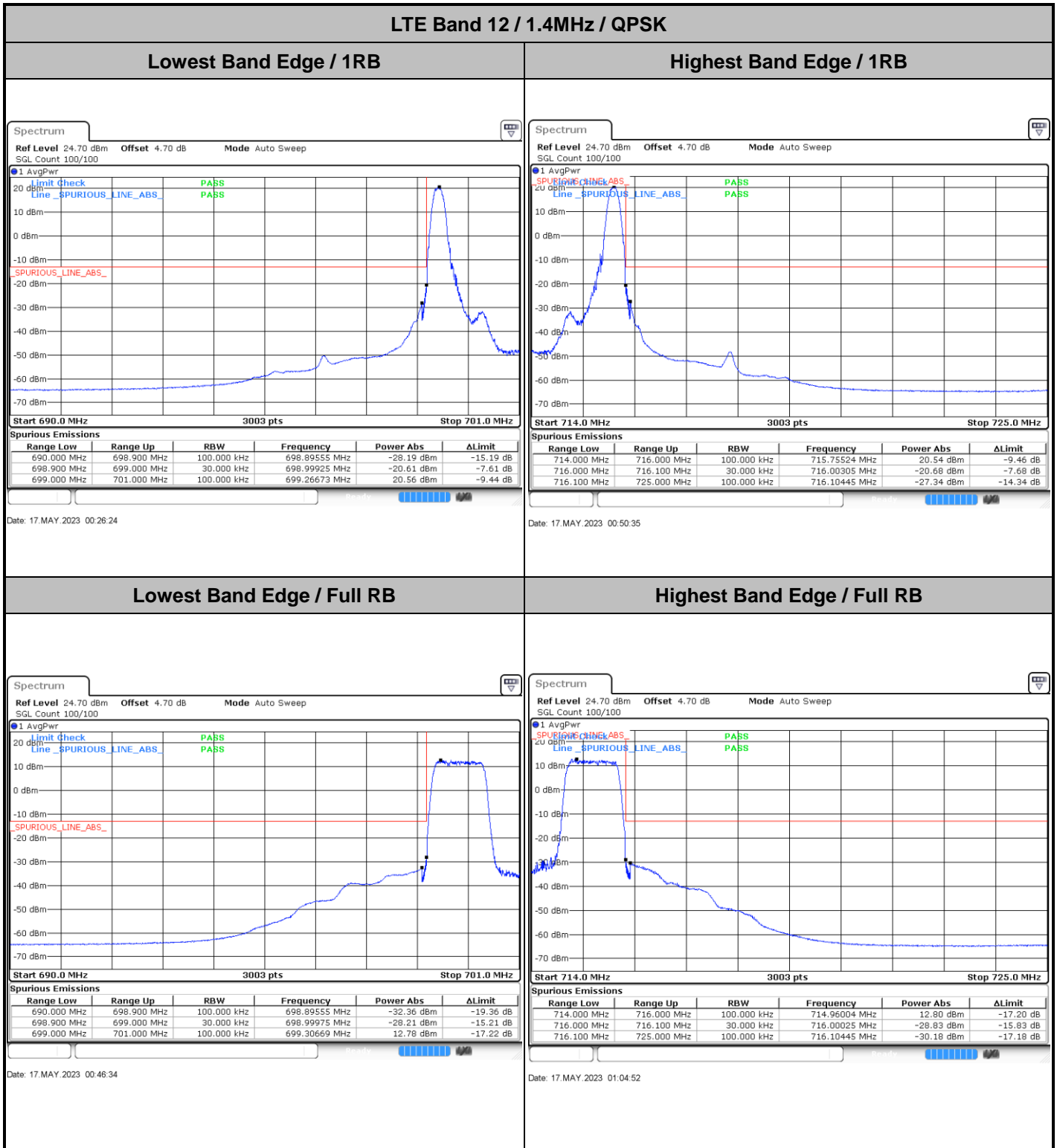
Middle Channel / 10MHz / 256QAM



Date: 17 MAY 2023 05:37:16



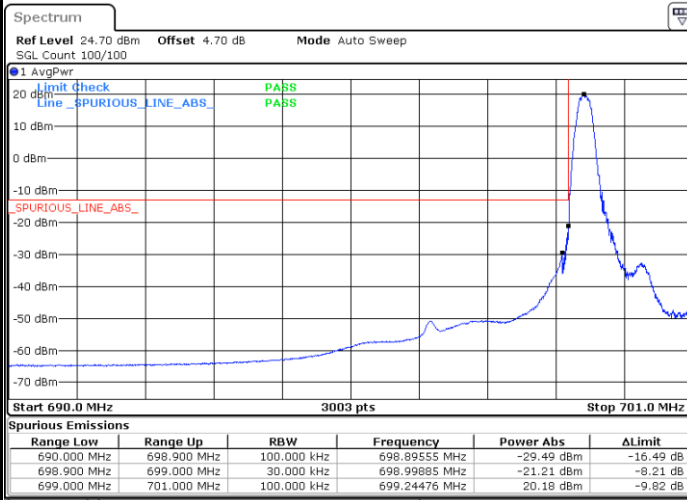
### A3.4 Conducted Band Edge





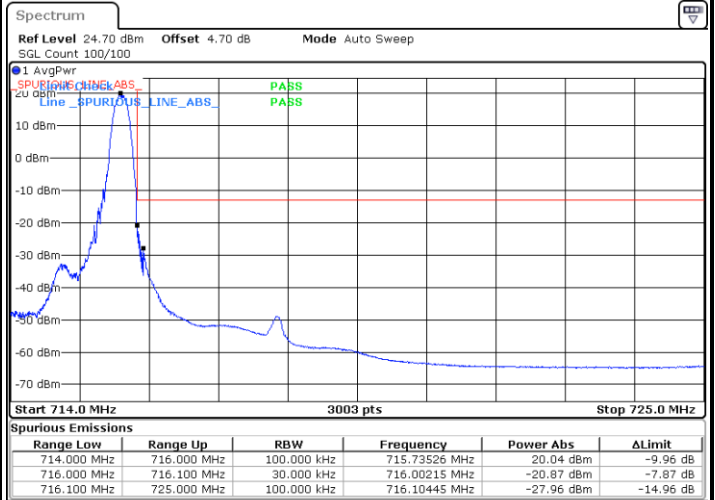
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



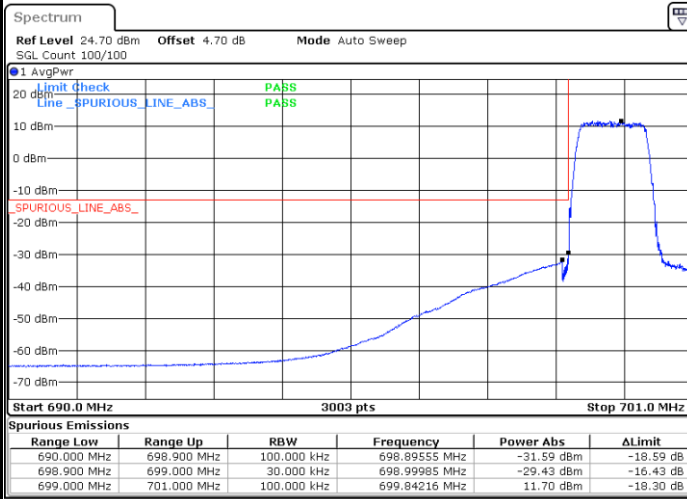
Date: 17.MAY.2023 00:27:44

Highest Band Edge / 1 RB



Date: 17.MAY.2023 00:51:55

Lowest Band Edge / Full RB



Date: 17.MAY.2023 00:45:14

Highest Band Edge / Full RB

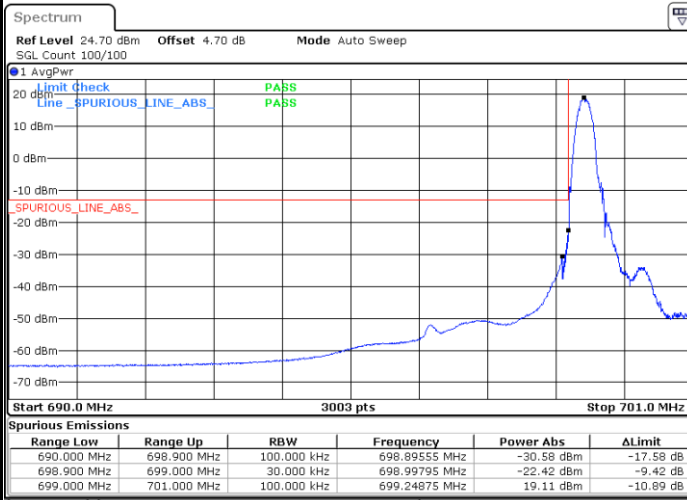


Date: 17.MAY.2023 01:03:32



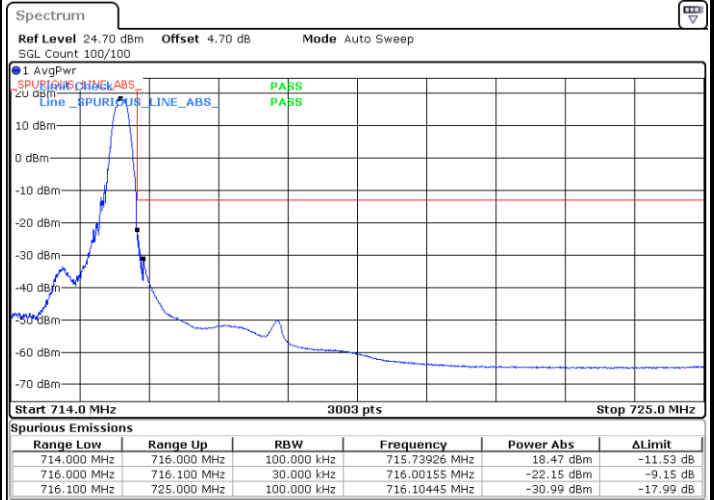
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



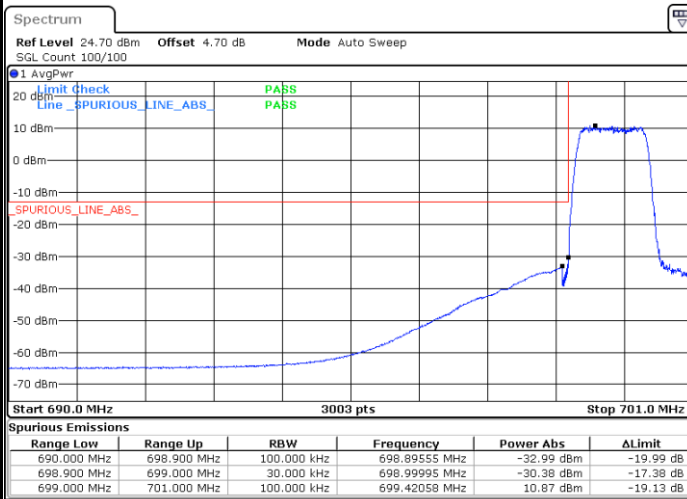
Date: 17.MAY.2023 00:29:04

Highest Band Edge / 1 RB



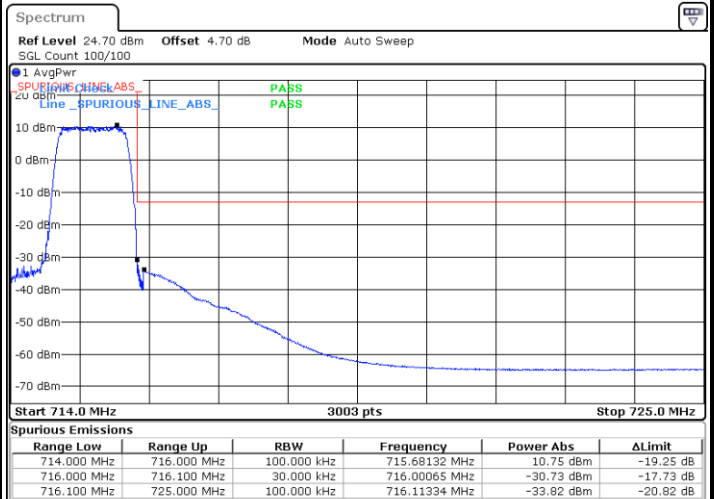
Date: 17.MAY.2023 00:53:16

Lowest Band Edge / Full RB



Date: 17.MAY.2023 00:43:54

Highest Band Edge / Full RB



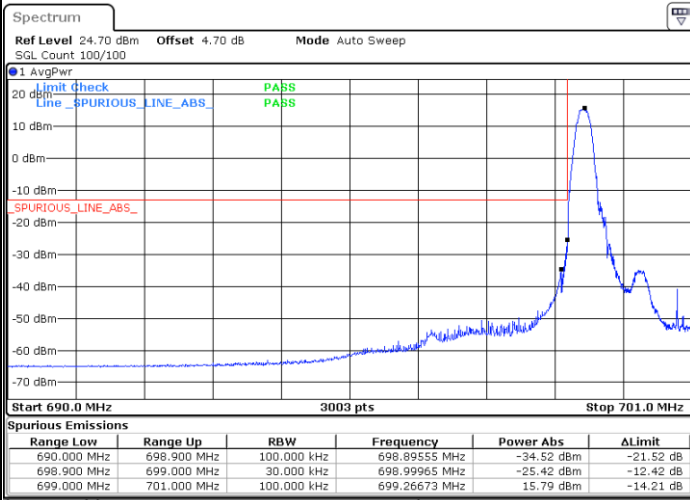
Date: 17.MAY.2023 01:02:12



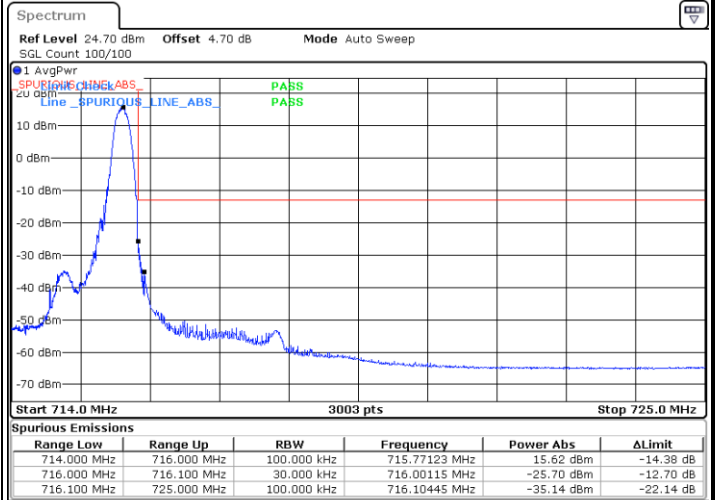
LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



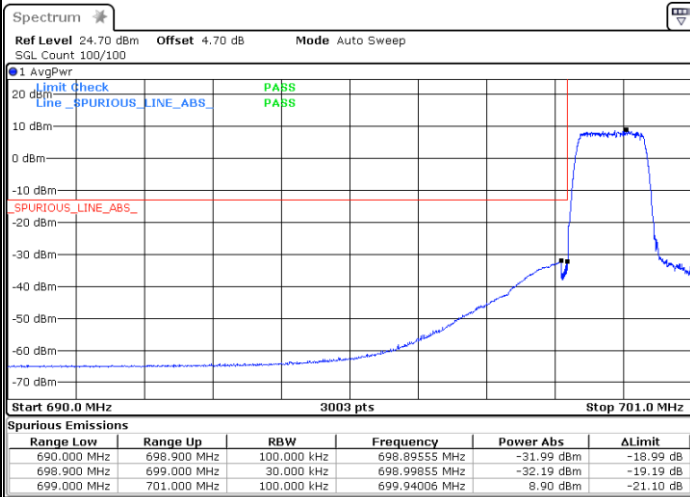
Date: 17.MAY.2023 00:30:24



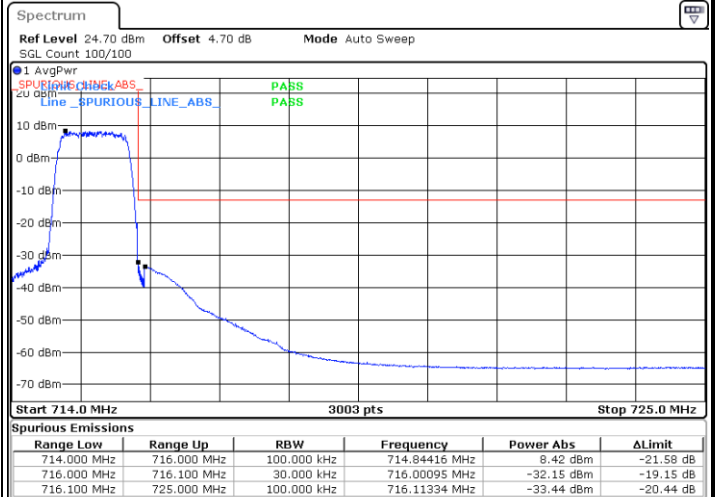
Date: 17.MAY.2023 00:54:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.MAY.2023 00:42:10

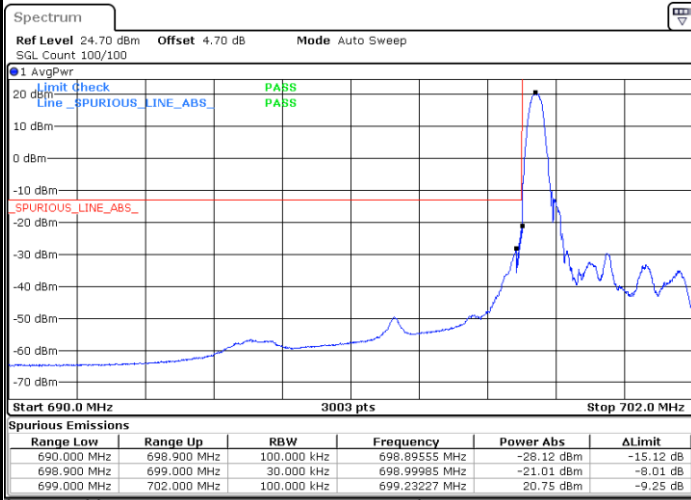


Date: 17.MAY.2023 01:00:51



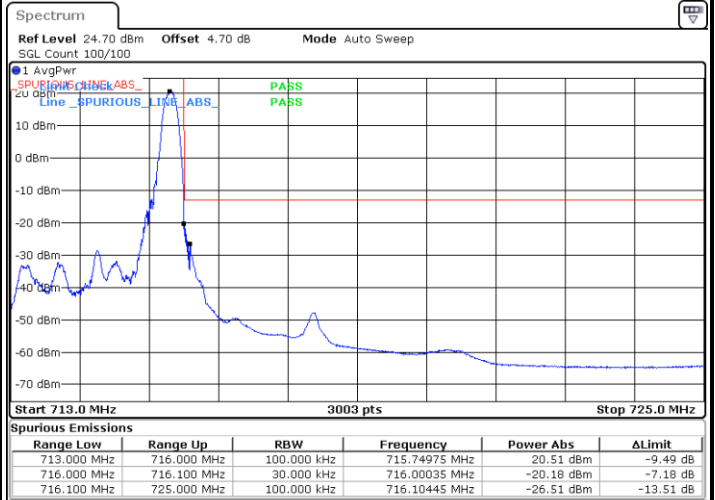
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



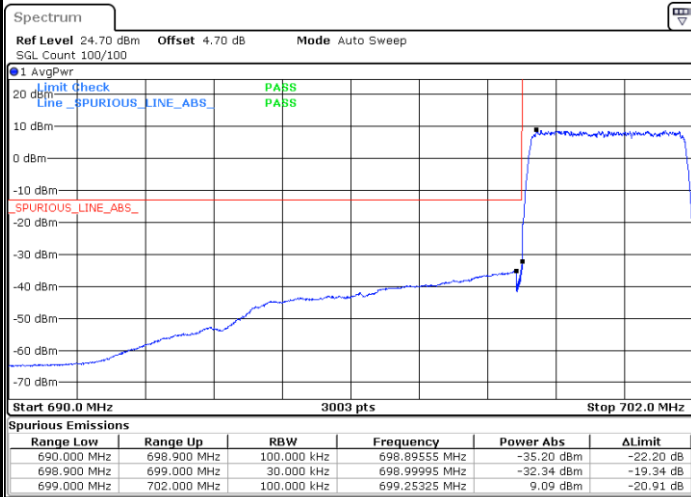
Date: 17.MAY.2023 01:07:33

Highest Band Edge / 1 RB



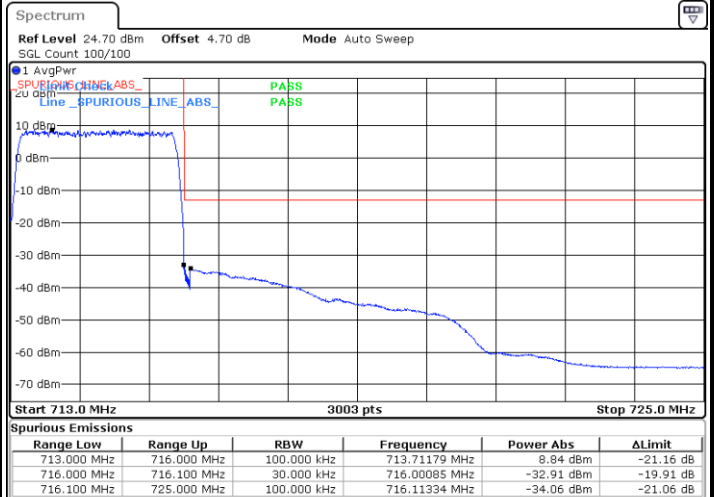
Date: 17.MAY.2023 01:25:52

Lowest Band Edge / Full RB



Date: 17.MAY.2023 01:21:51

Highest Band Edge / Full RB

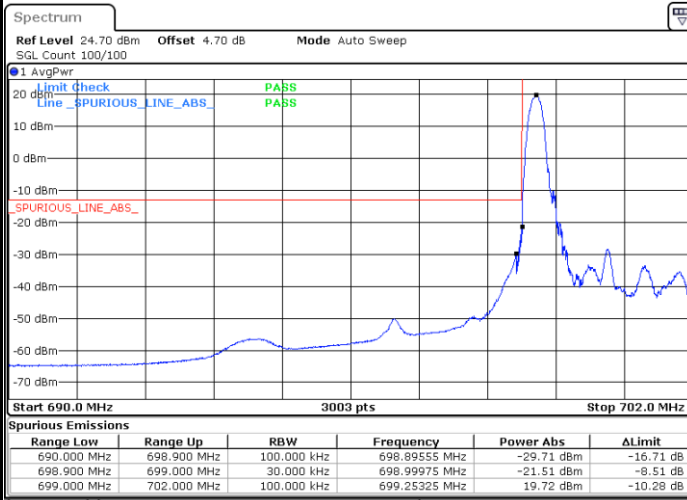


Date: 17.MAY.2023 01:36:28



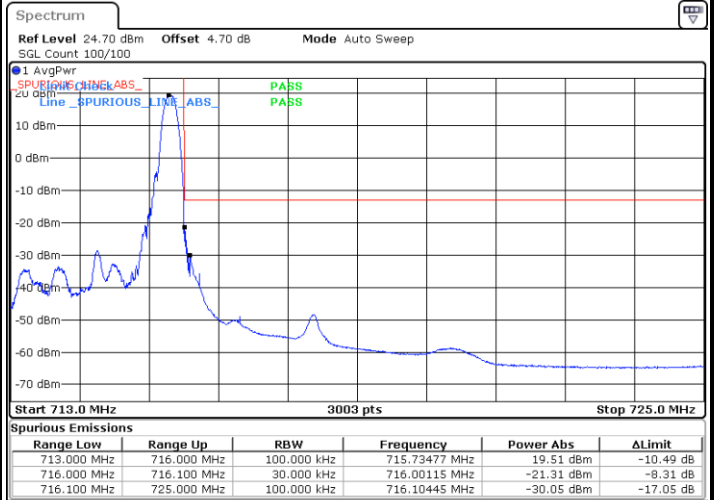
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



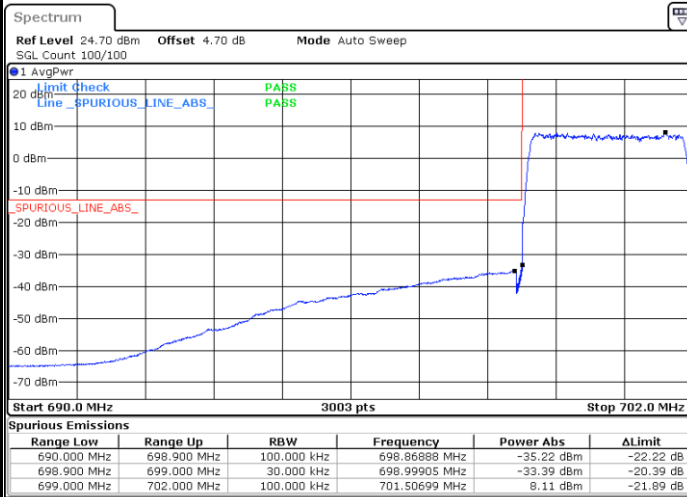
Date: 17.MAY.2023 01:08:54

Highest Band Edge / 1 RB



Date: 17.MAY.2023 01:27:13

Lowest Band Edge / Full RB



Date: 17.MAY.2023 01:20:31

Highest Band Edge / Full RB

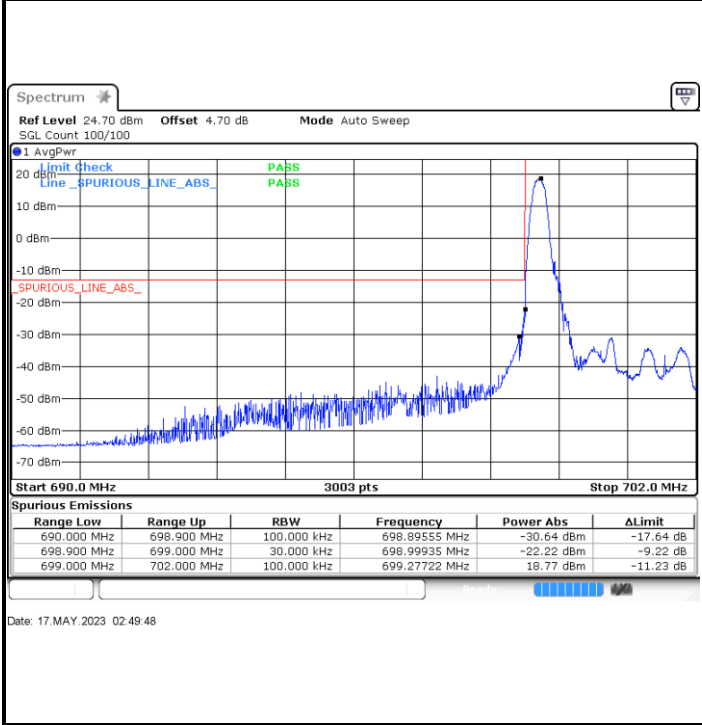


Date: 17.MAY.2023 01:35:08

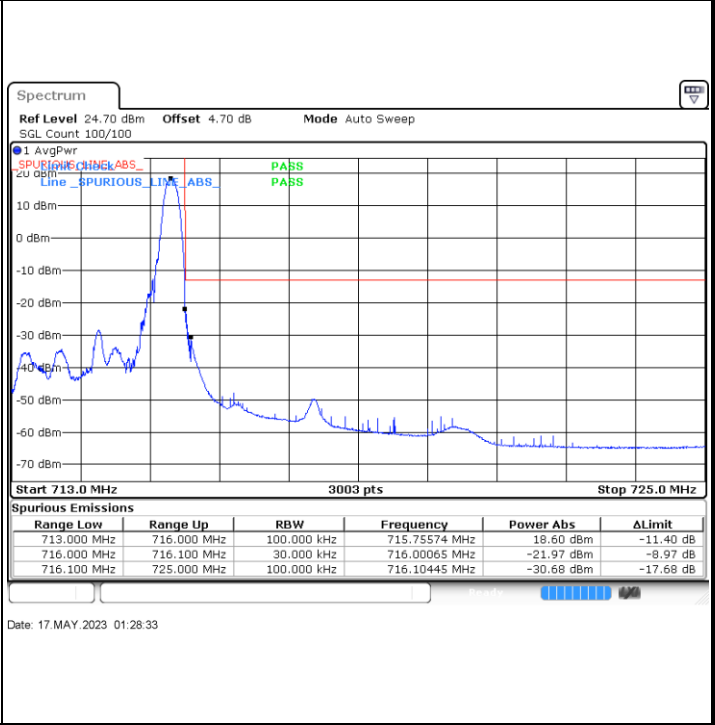


**LTE Band 12 / 3MHz / 64QAM**

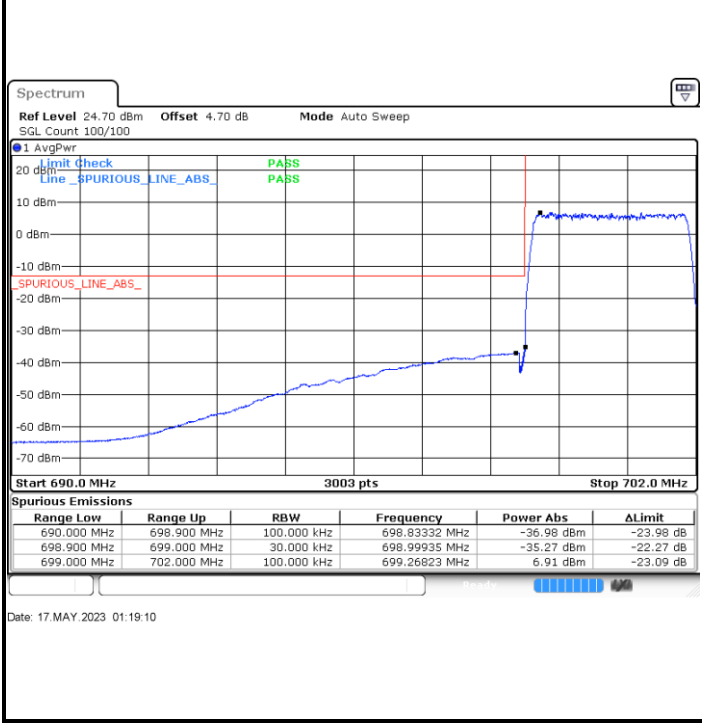
**Lowest Band Edge / 1 RB**



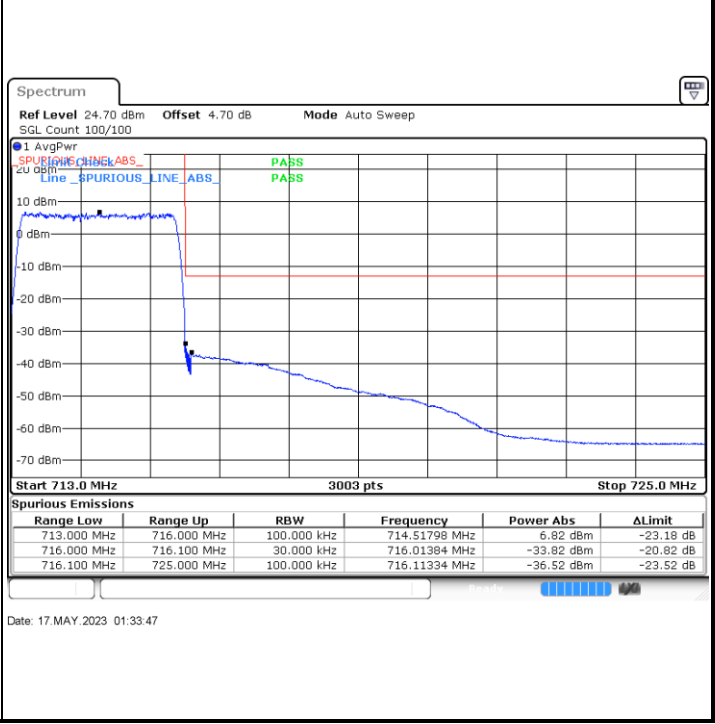
**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



**Highest Band Edge / Full RB**

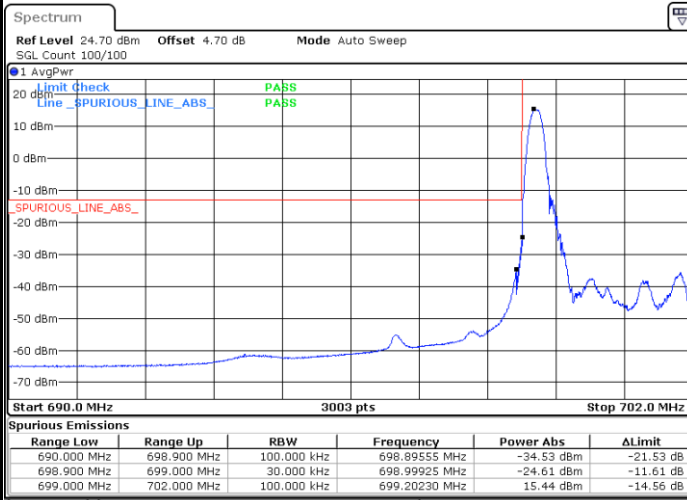






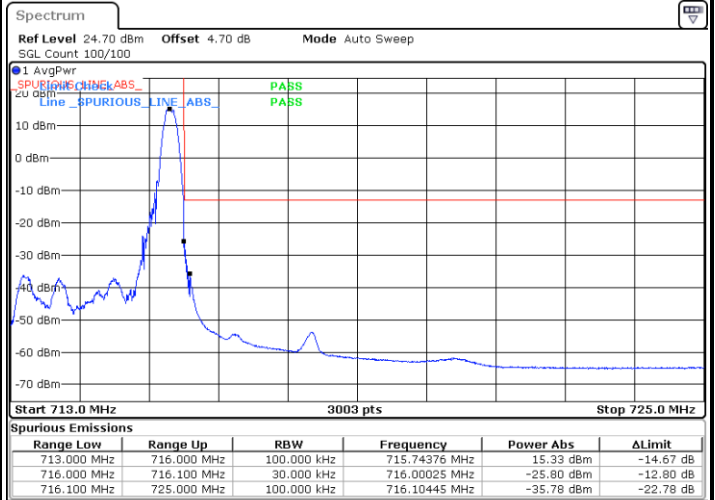
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



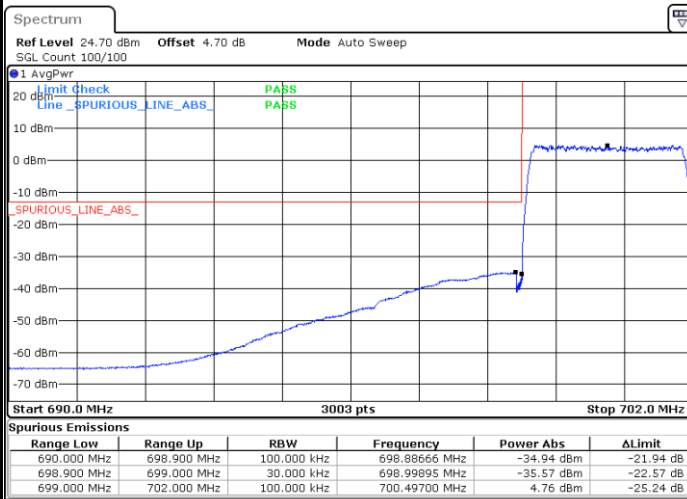
Date: 17.MAY.2023 01:11:34

Highest Band Edge / 1 RB



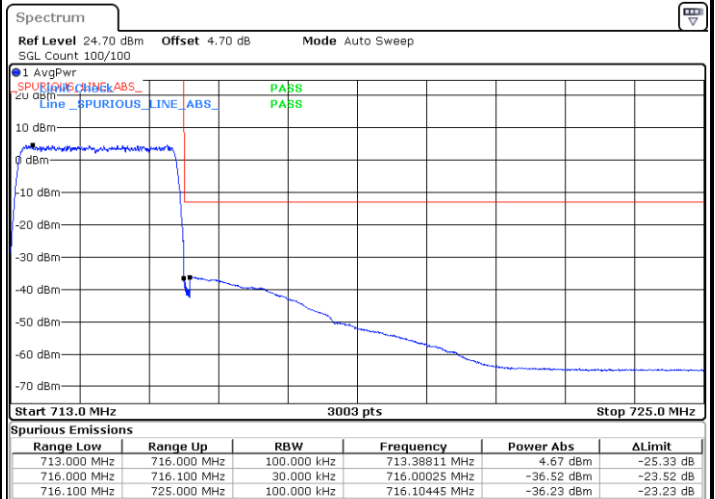
Date: 17.MAY.2023 01:29:53

Lowest Band Edge / Full RB



Date: 17.MAY.2023 01:17:50

Highest Band Edge / Full RB



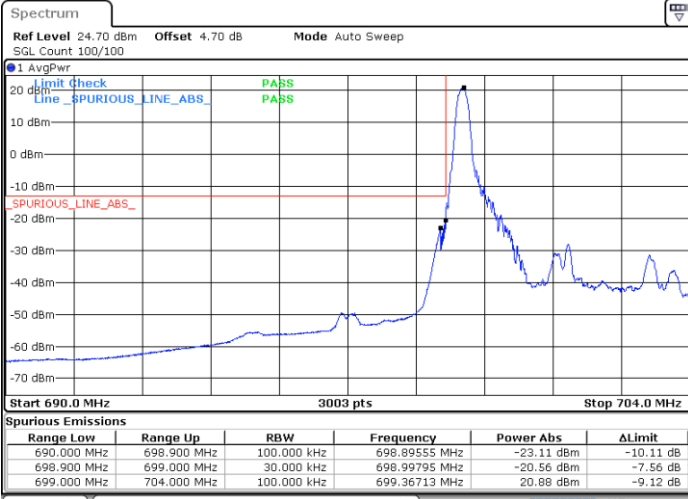
Date: 17.MAY.2023 02:47:52



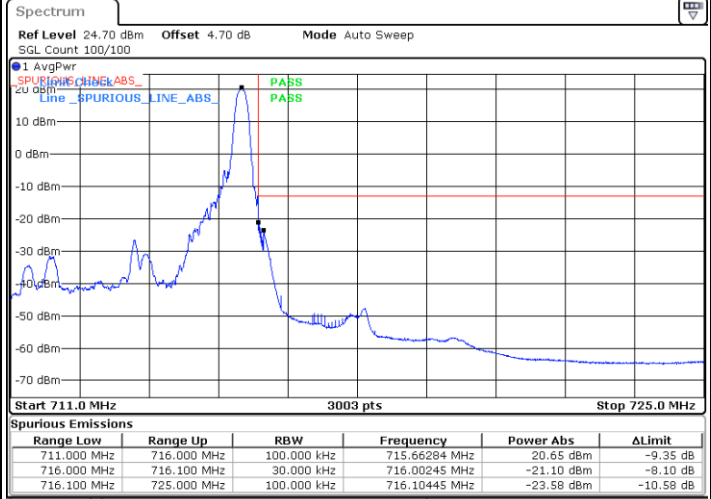
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



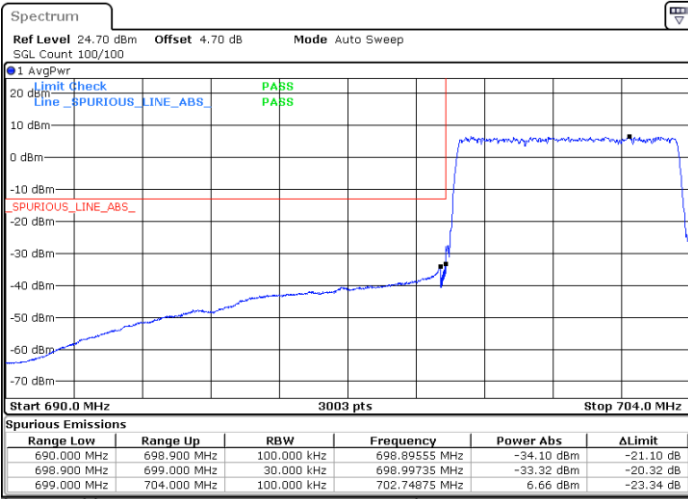
Date: 17.MAY.2023 01:39:09



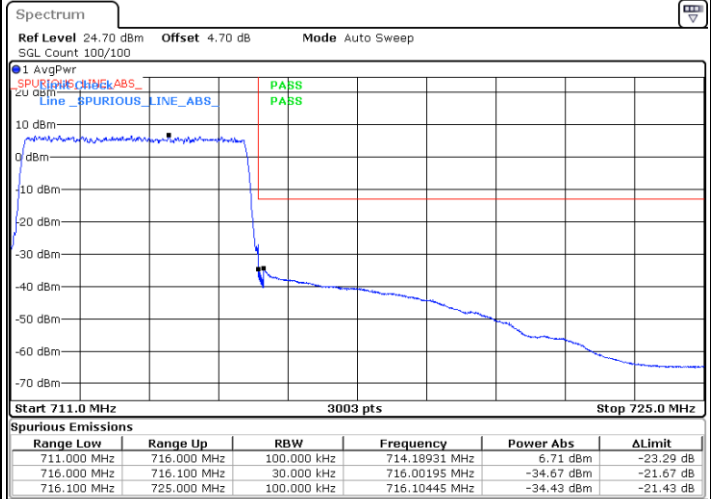
Date: 17.MAY.2023 01:53:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.MAY.2023 01:49:44

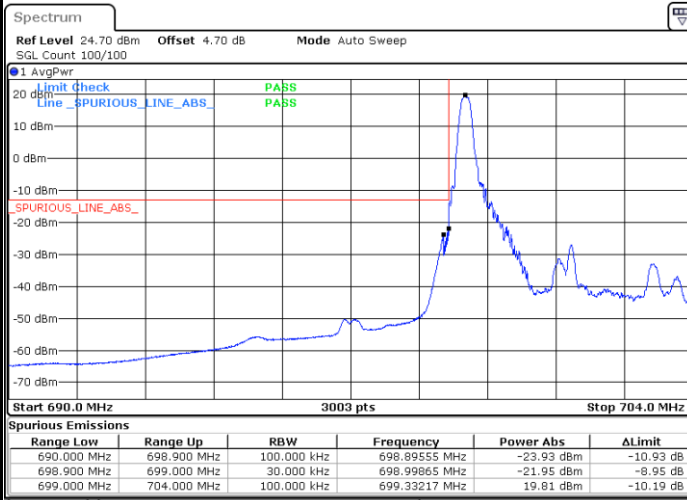


Date: 17.MAY.2023 02:08:01



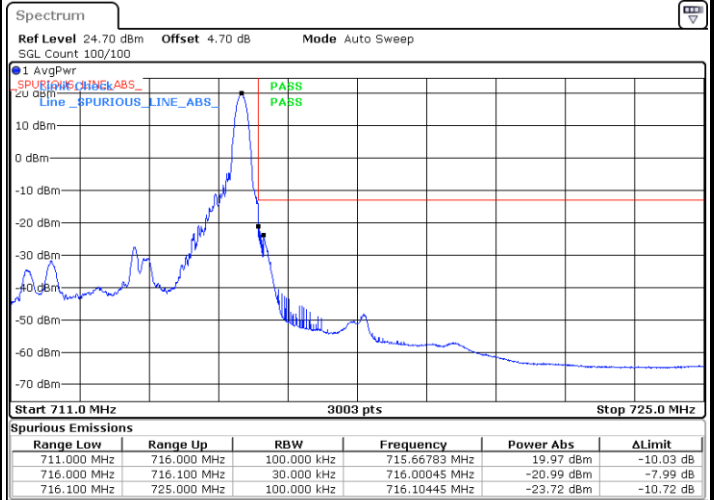
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



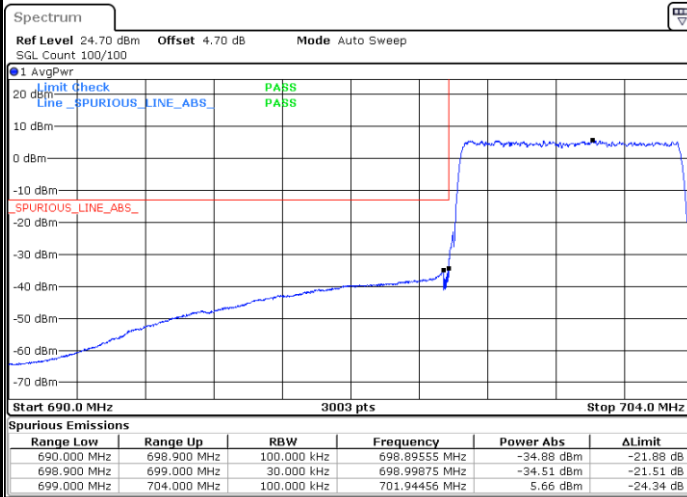
Date: 17.MAY.2023 01:40:29

Highest Band Edge / 1 RB



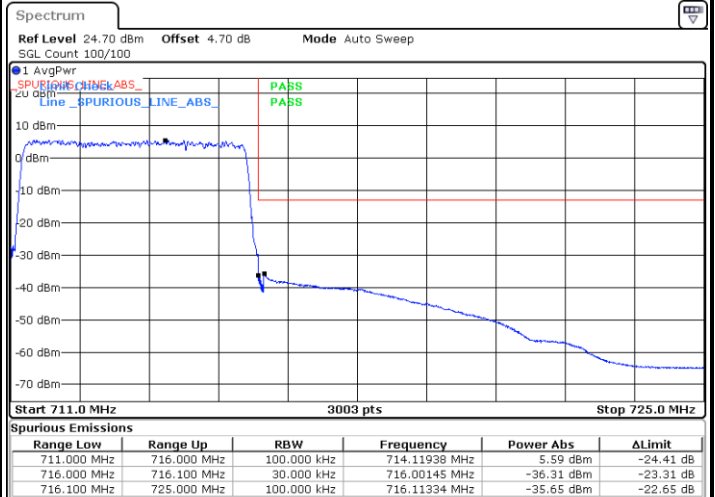
Date: 17.MAY.2023 01:55:06

Lowest Band Edge / Full RB



Date: 17.MAY.2023 01:48:24

Highest Band Edge / Full RB

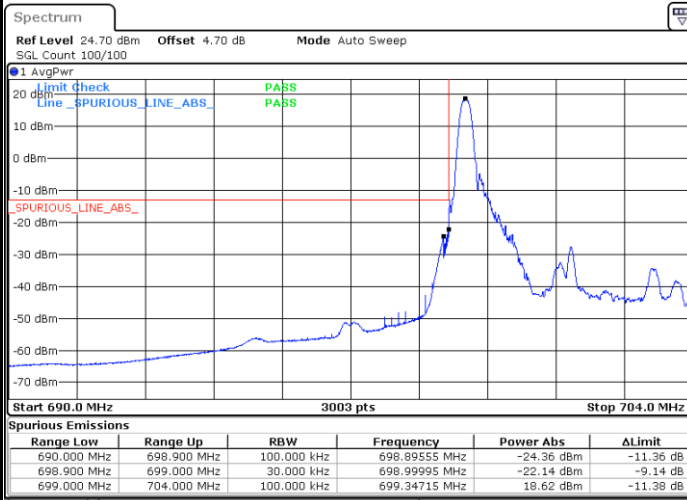


Date: 17.MAY.2023 02:06:42



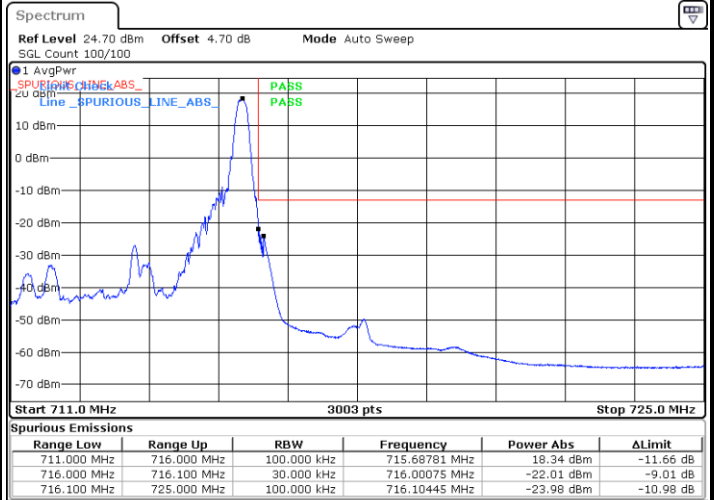
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



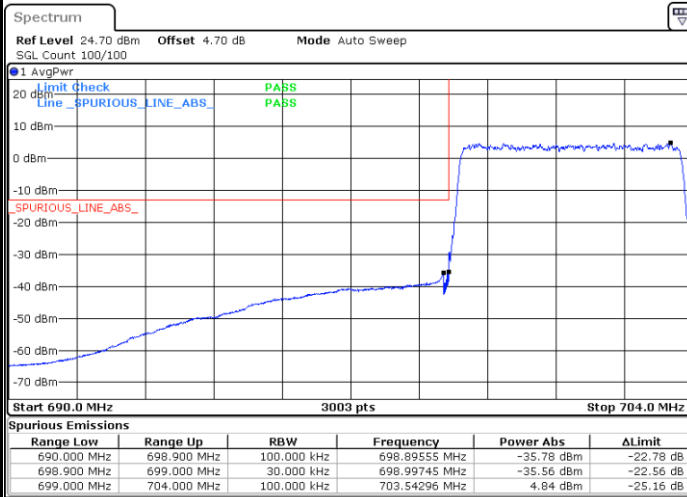
Date: 17.MAY.2023 01:41:50

Highest Band Edge / 1 RB



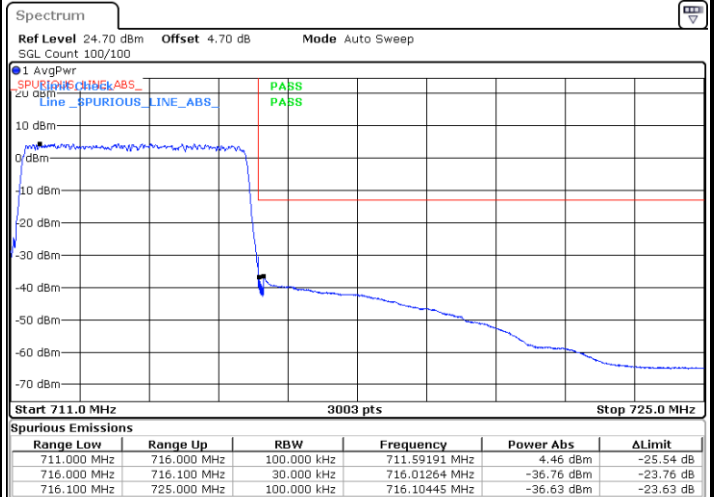
Date: 17.MAY.2023 01:56:26

Lowest Band Edge / Full RB



Date: 17.MAY.2023 01:47:04

Highest Band Edge / Full RB

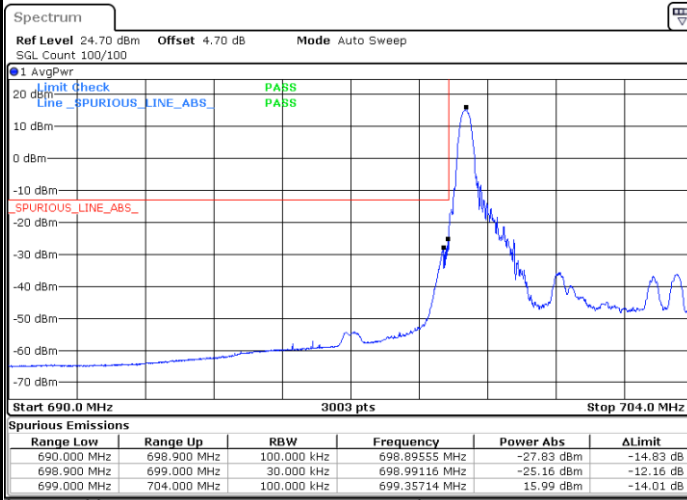


Date: 17.MAY.2023 02:05:22



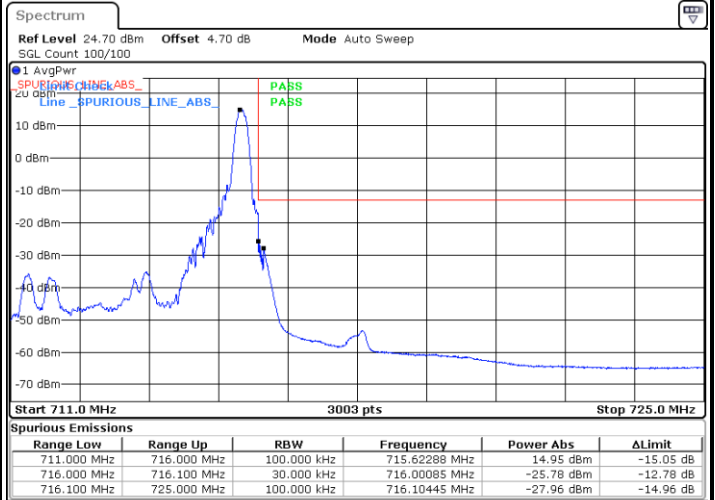
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



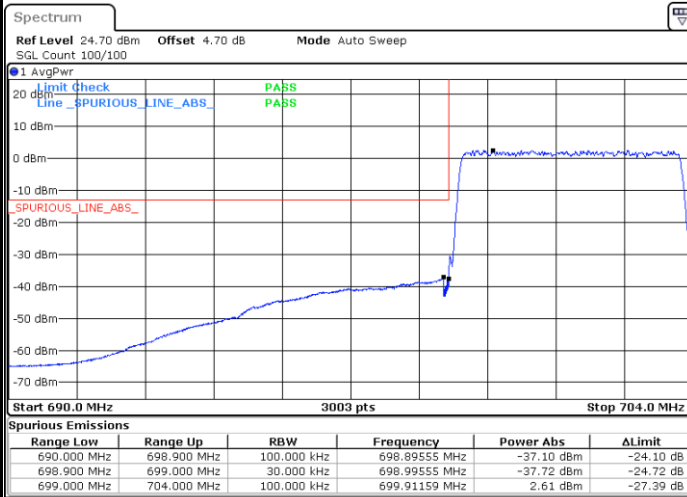
Date: 17.MAY.2023 01:43:10

Highest Band Edge / 1 RB



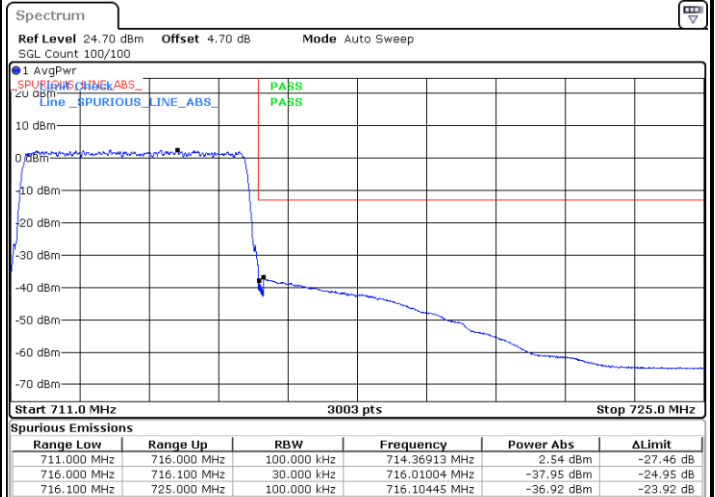
Date: 17.MAY.2023 01:57:46

Lowest Band Edge / Full RB



Date: 17.MAY.2023 02:51:48

Highest Band Edge / Full RB

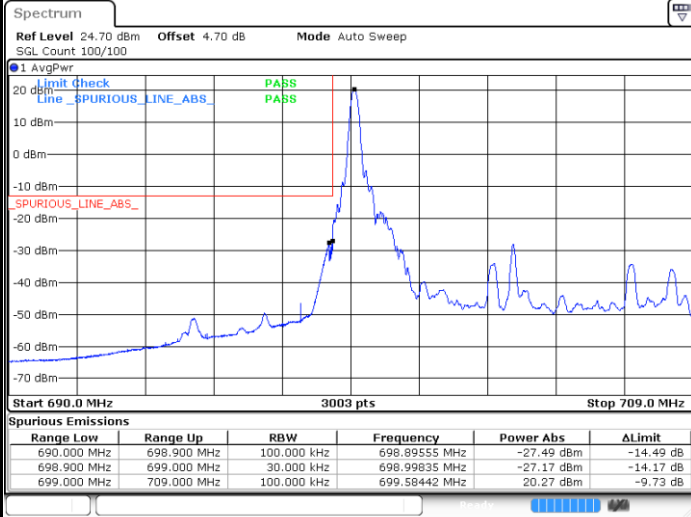


Date: 17.MAY.2023 02:04:02



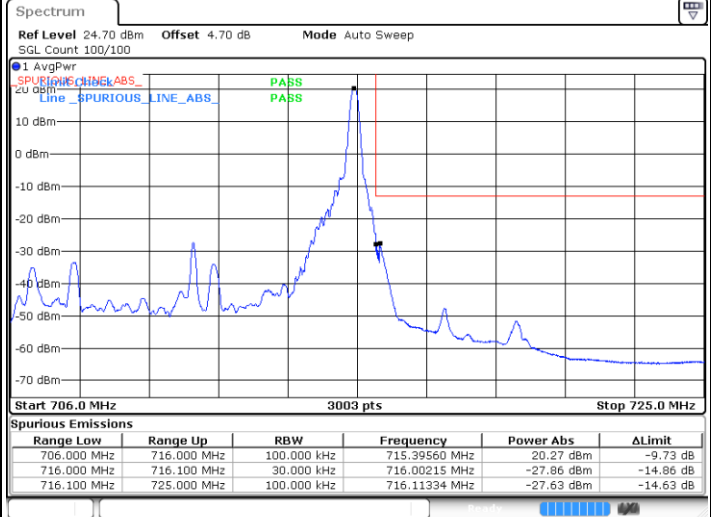
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



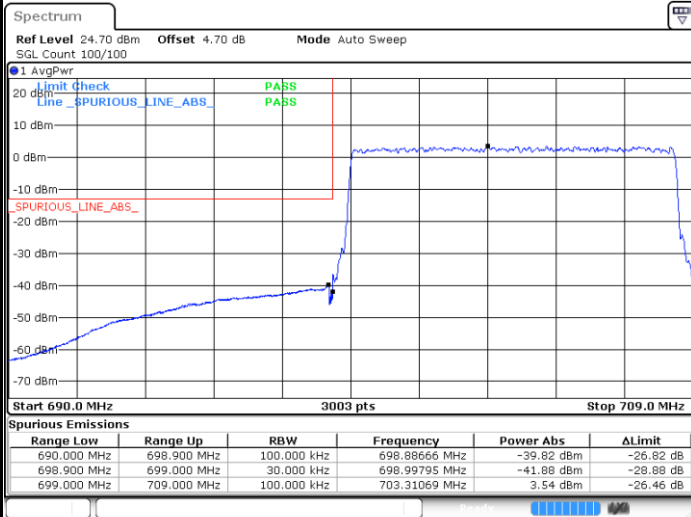
Date: 17.MAY.2023 02:10:42

Highest Band Edge / 1 RB



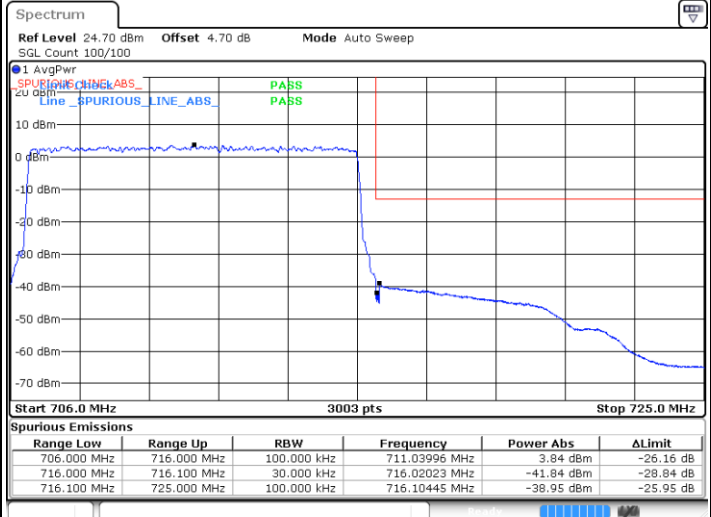
Date: 17.MAY.2023 02:27:44

Lowest Band Edge / Full RB



Date: 17.MAY.2023 02:23:43

Highest Band Edge / Full RB



Date: 17.MAY.2023 02:40:52