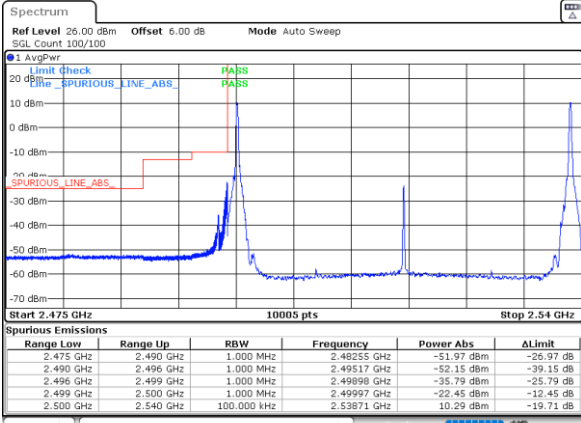




LTE Band 7C / 20MHz+20MHz

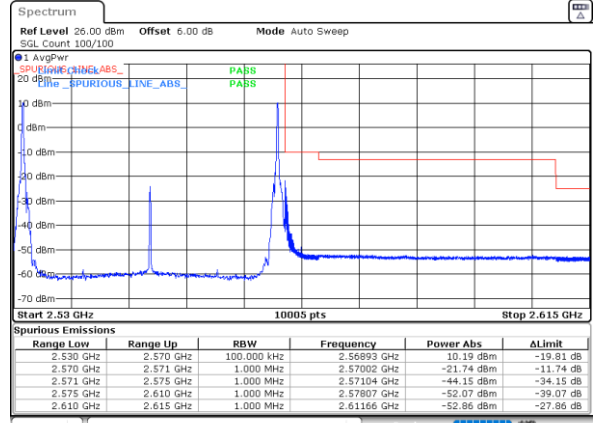
256QAM

Lowest Band Edge / 1RB0 and 1RB9



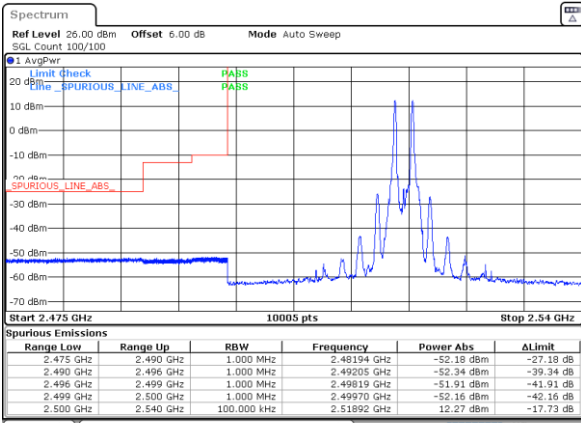
Date: 4.FEB.2023 05:00:47

Highest Band Edge / 1RB0 and 1RB9



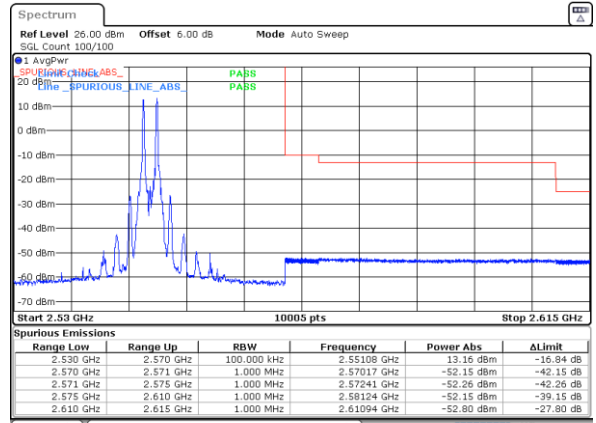
Date: 4.FEB.2023 05:17:28

Lowest Band Edge / 1RB99 and 1RB0



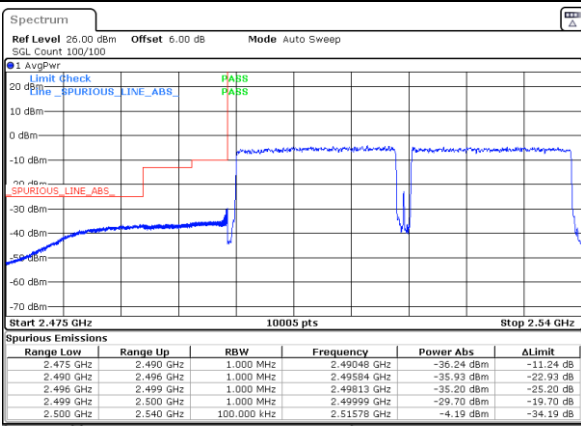
Date: 4.FEB.2023 05:05:18

Highest Band Edge / 1RB99 and 1RB0



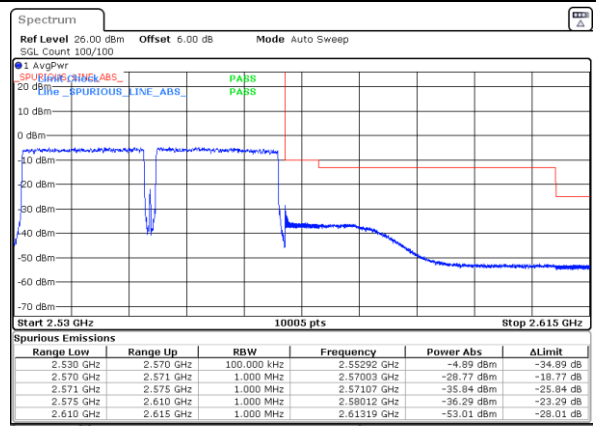
Date: 4.FEB.2023 05:21:58

Lowest Band Edge / Full RB



Date: 4.FEB.2023 05:09:51

Highest Band Edge / Full RB



Date: 4.FEB.2023 05:26:29

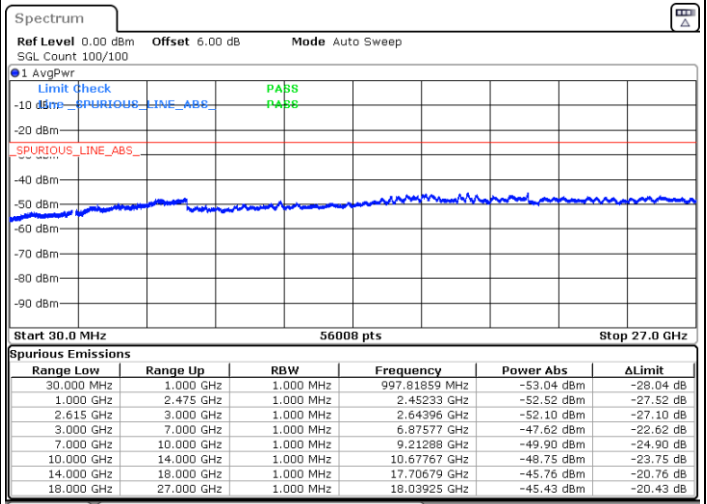
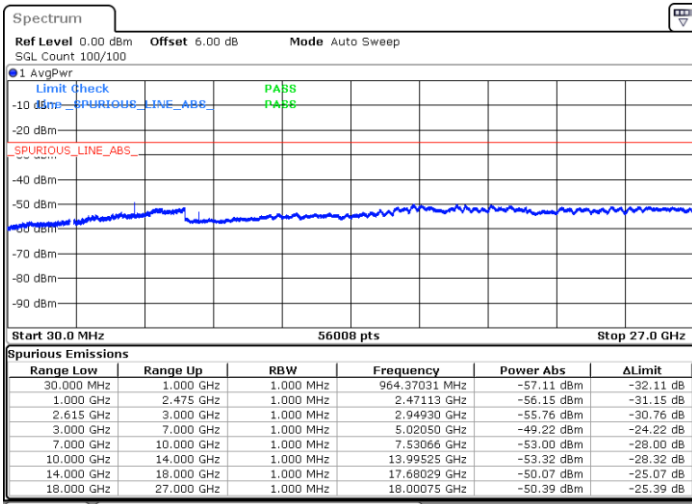


Conducted Spurious Emission

LTE Band 7C / 10MHz+20MHz

Lowest Channel / QPSK

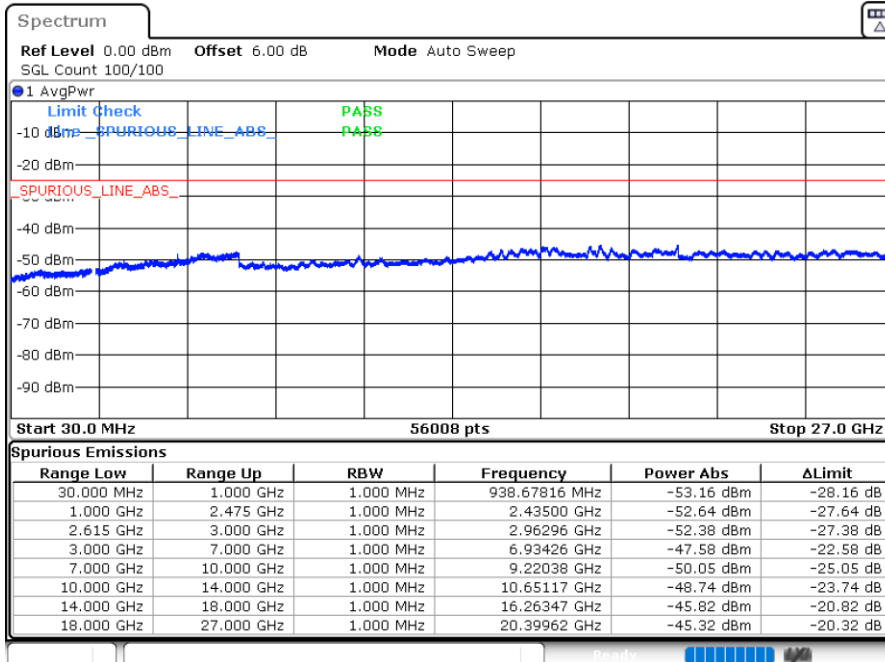
Middle Channel / QPSK



Date: 5.FEB.2023 03:02:55

Date: 4.FEB.2023 01:31:30

Highest Channel / QPSK



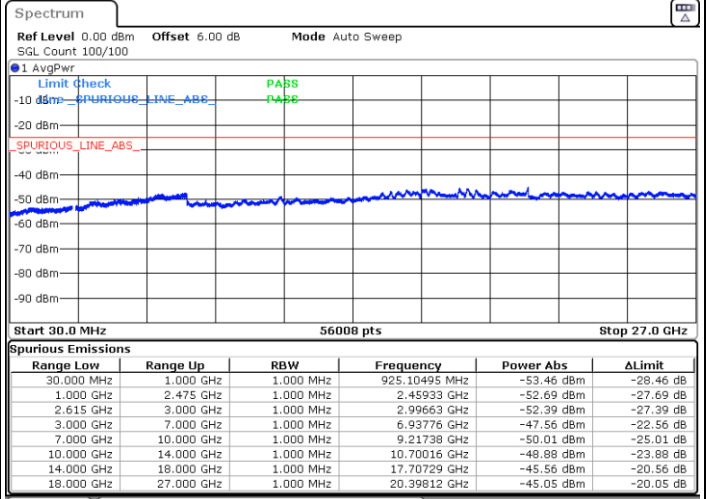
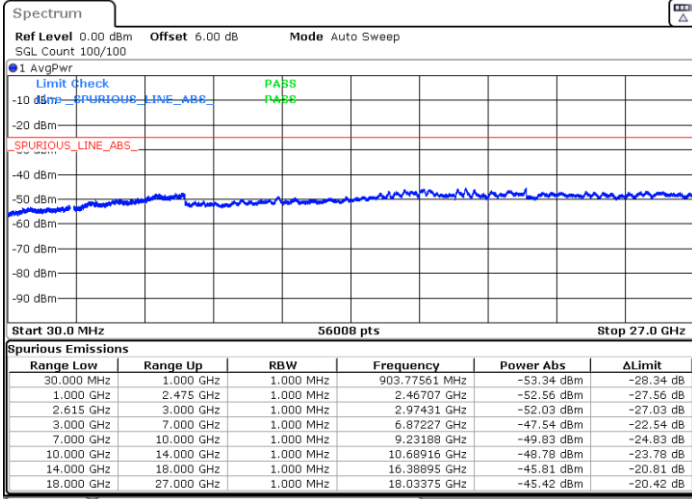
Date: 4.FEB.2023 01:33:03



LTE Band 7C / 15MHz+10MHz

Lowest Channel / QPSK

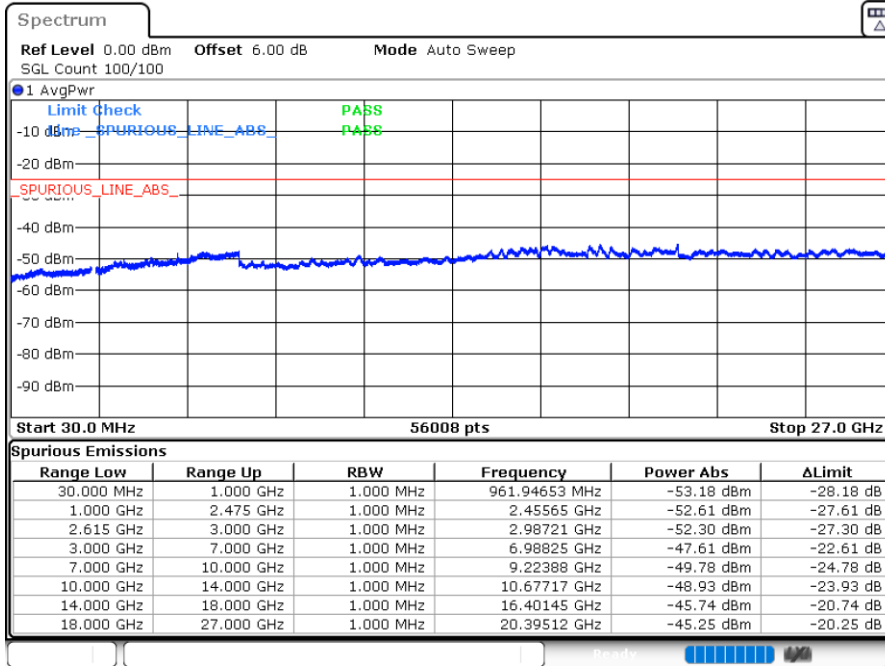
Middle Channel / QPSK



Date: 4.FEB.2023 01:49:05

Date: 4.FEB.2023 02:06:05

Highest Channel / QPSK



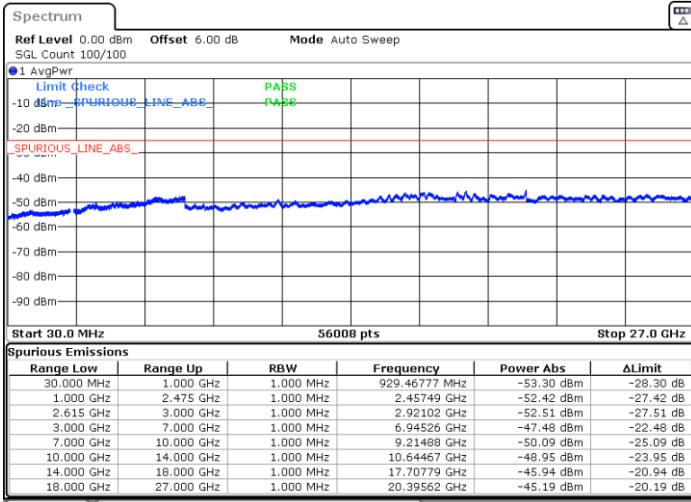
Date: 4.FEB.2023 02:07:38



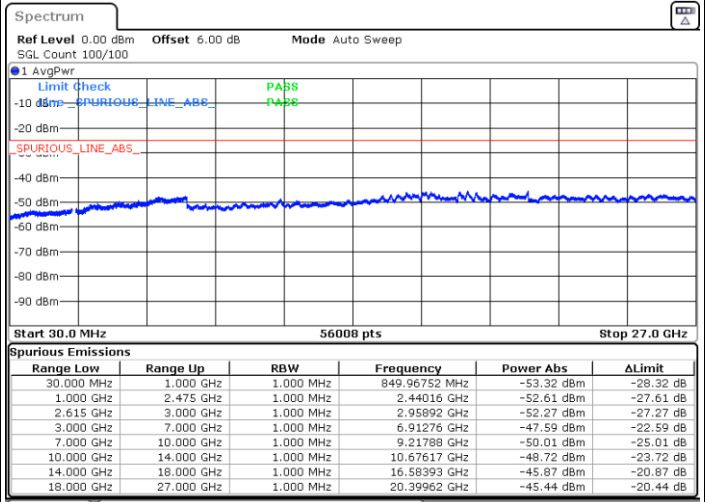
LTE Band 7C / 15MHz+15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

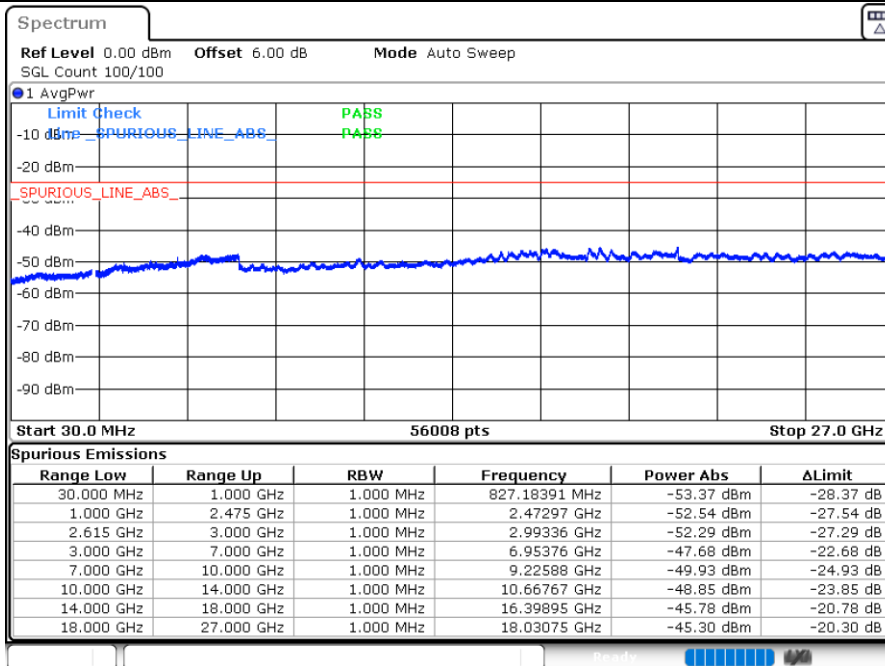


Date: 4.FEB.2023 02:25:57



Date: 4.FEB.2023 02:42:56

Highest Channel / QPSK



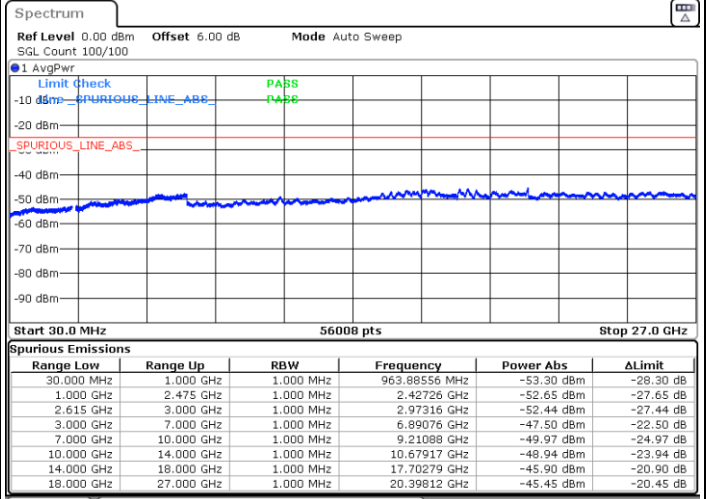
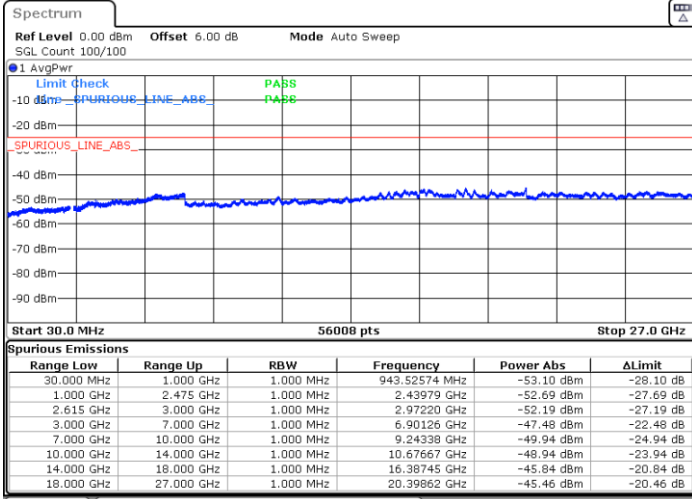
Date: 4.FEB.2023 02:44:29



LTE Band 7C / 15MHz+20MHz

Lowest Channel / QPSK

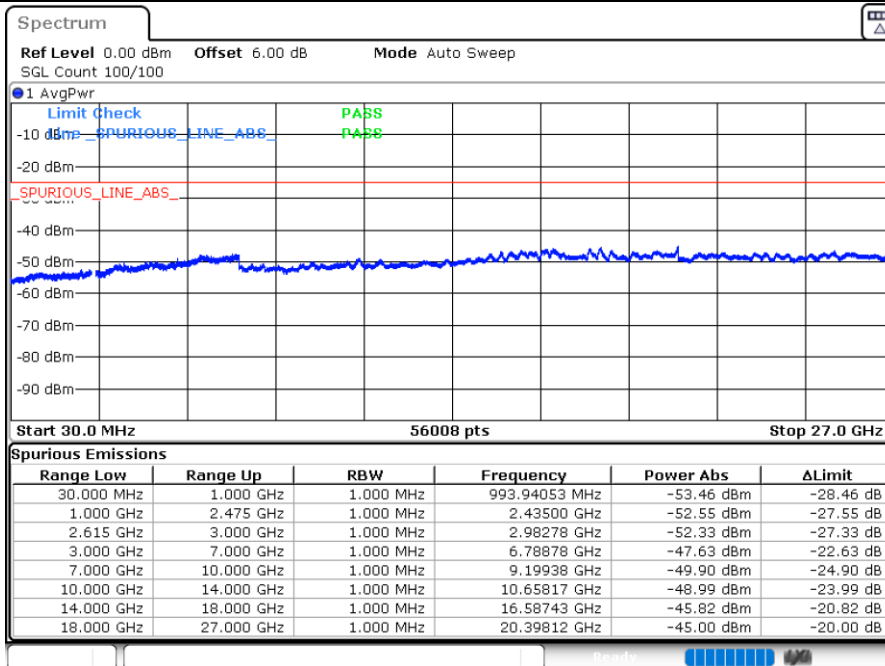
Middle Channel / QPSK



Date: 4.FEB.2023 03:03:55

Date: 4.FEB.2023 03:20:54

Highest Channel / QPSK



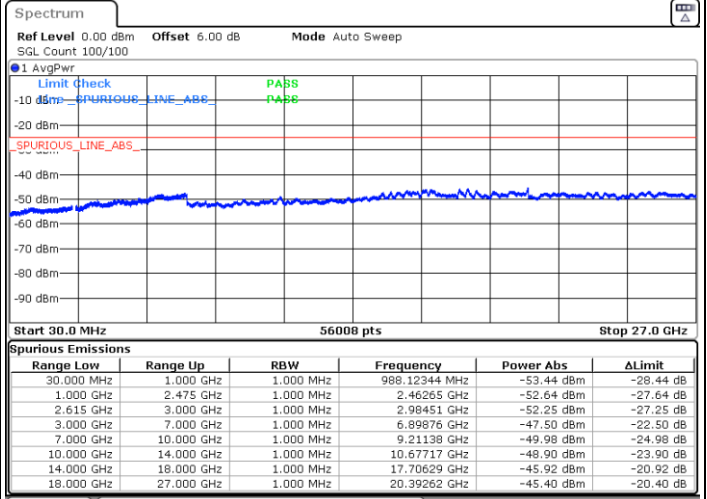
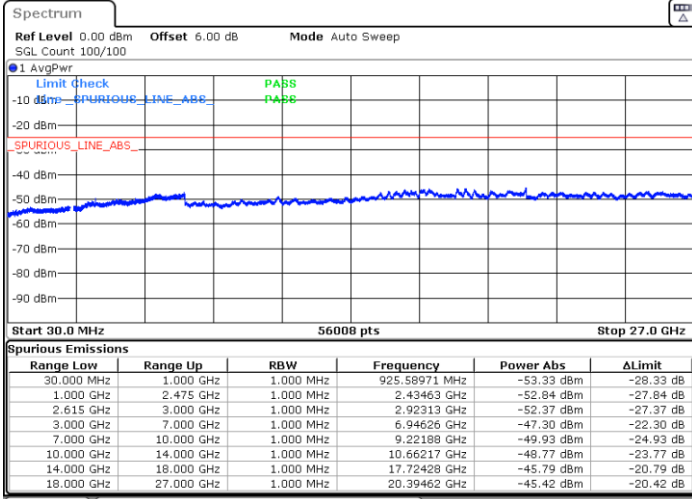
Date: 4.FEB.2023 03:22:27



LTE Band 7C / 20MHz+10MHz

Lowest Channel / QPSK

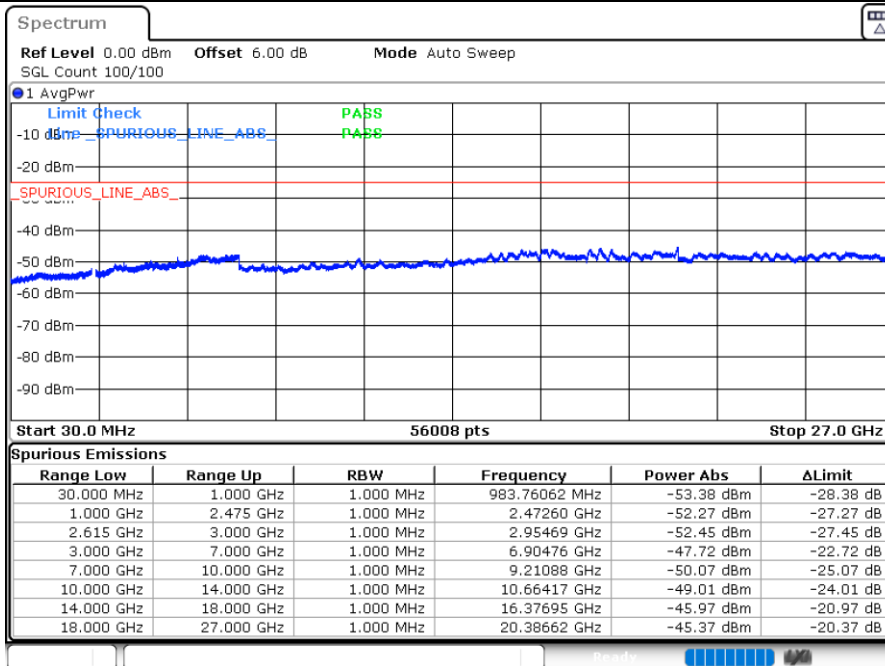
Middle Channel / QPSK



Date: 4.FEB.2023 03:45:03

Date: 4.FEB.2023 04:02:02

Highest Channel / QPSK



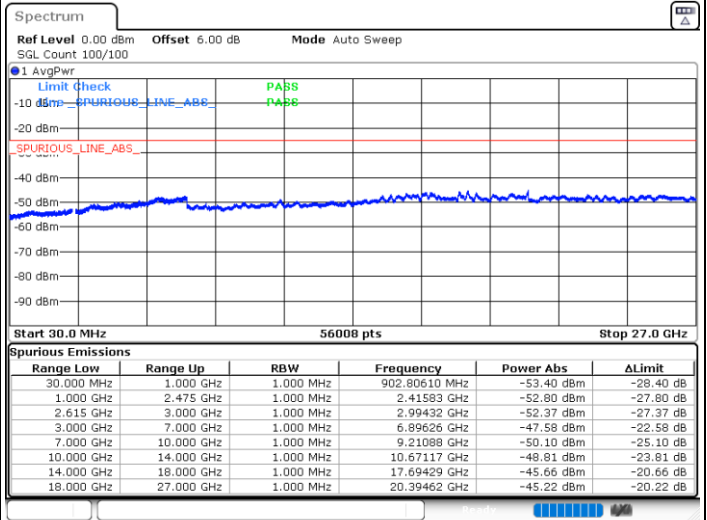
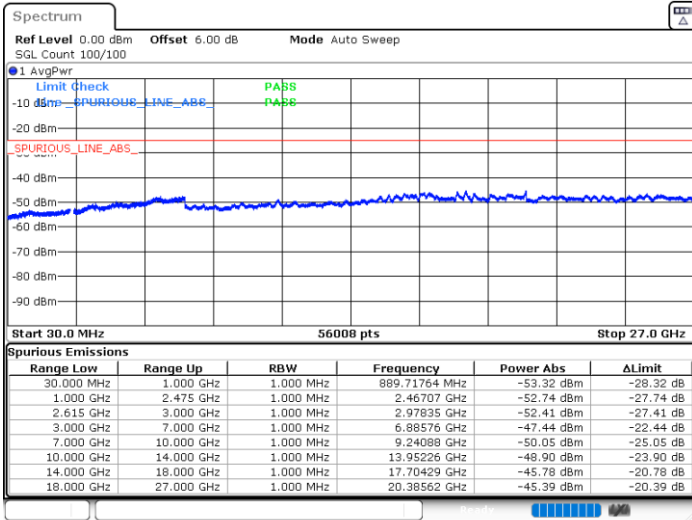
Date: 4.FEB.2023 04:03:35



LTE Band 7C / 20MHz+15MHz

Lowest Channel / QPSK

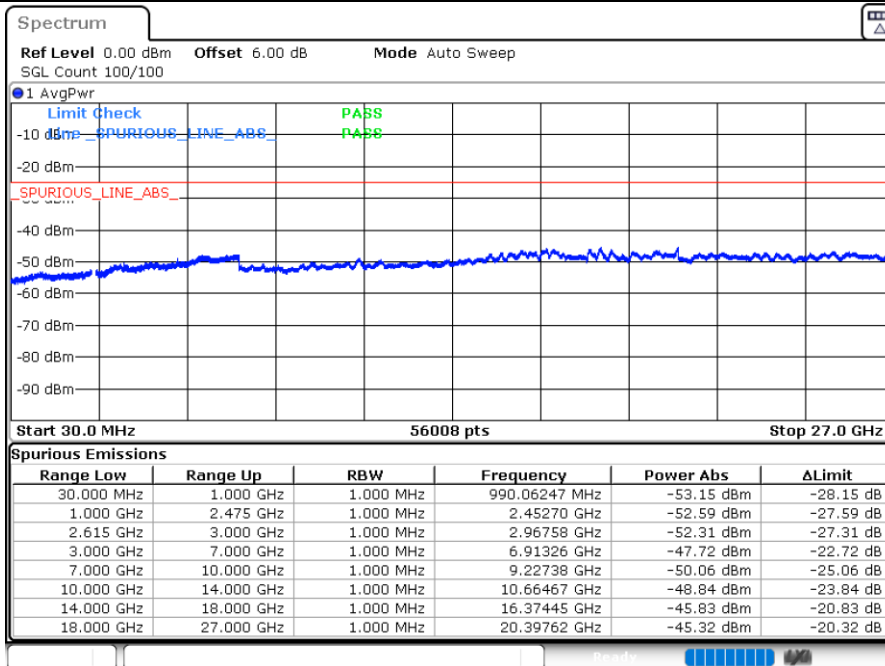
Middle Channel / QPSK



Date: 4.FEB.2023 04:21:08

Date: 4.FEB.2023 04:38:08

Highest Channel / QPSK



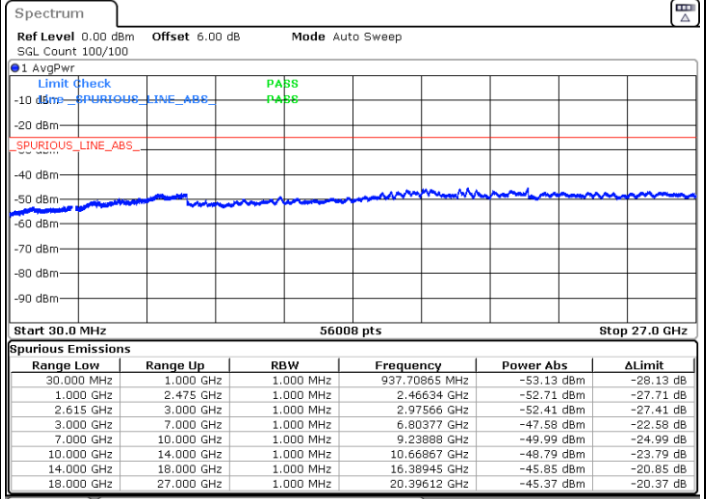
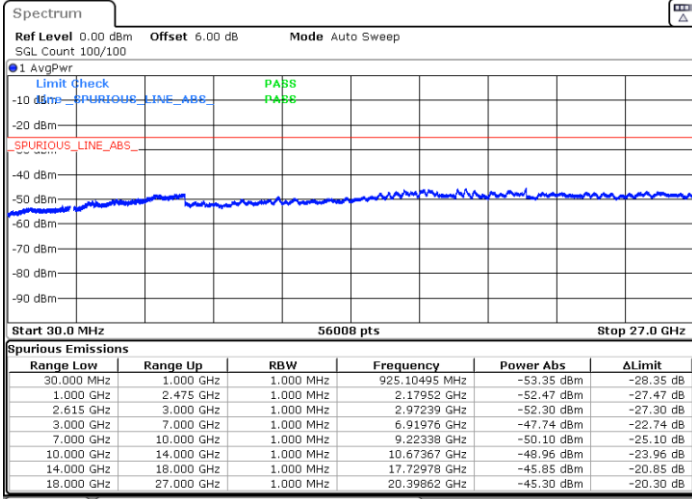
Date: 4.FEB.2023 04:39:41



LTE Band 7C /20MHz+20MHz

Lowest Channel / QPSK

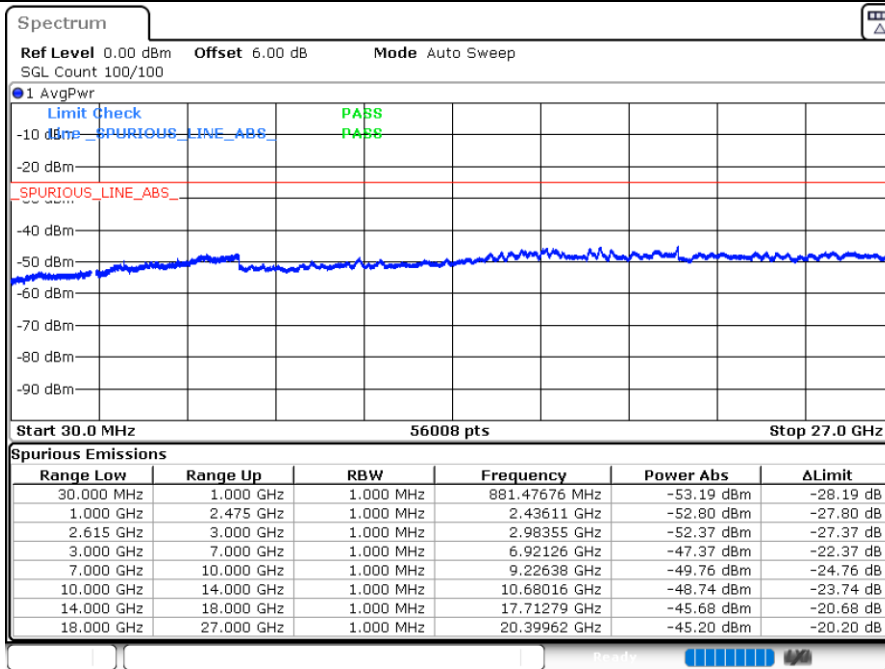
Middle Channel / QPSK



Date: 4.FEB.2023 04:56:16

Date: 4.FEB.2023 05:11:25

Highest Channel / QPSK



Date: 4.FEB.2023 05:12:58



Frequency Stability

Test Conditions		LTE Band 7C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

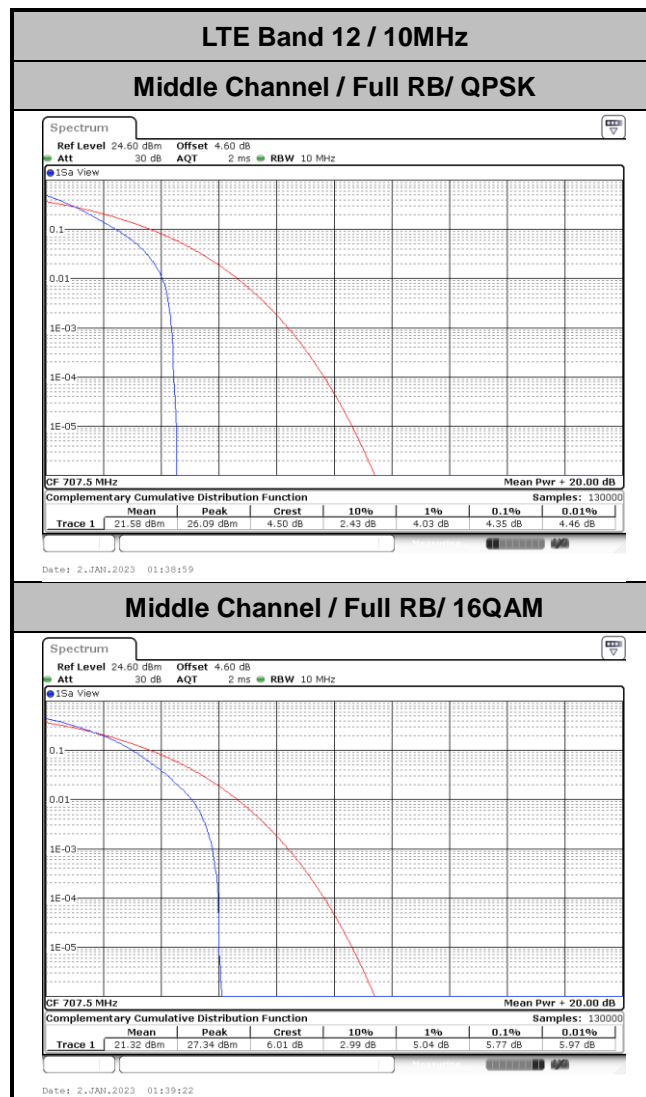
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

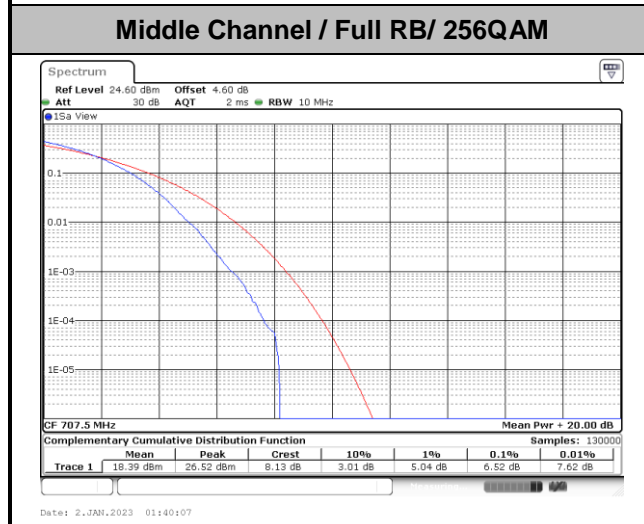
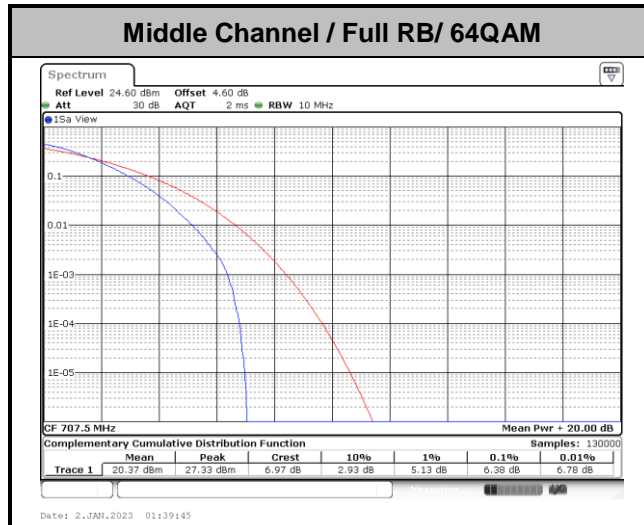


LTE Band 12

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	4.35	5.77	6.38	6.52	PASS

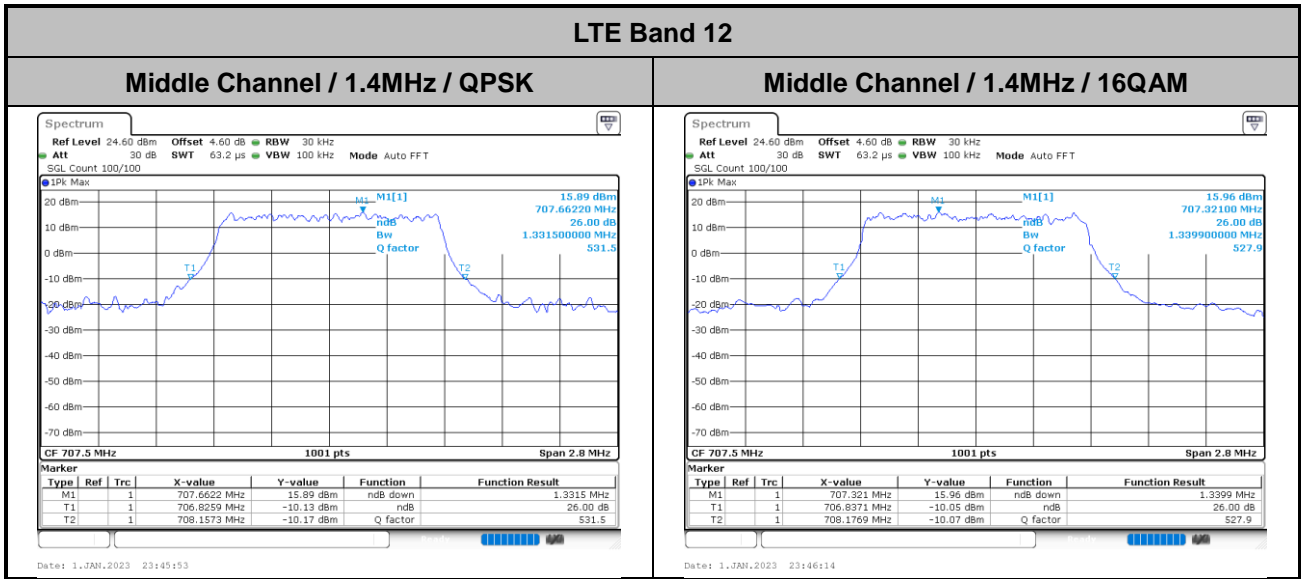






26dB Bandwidth

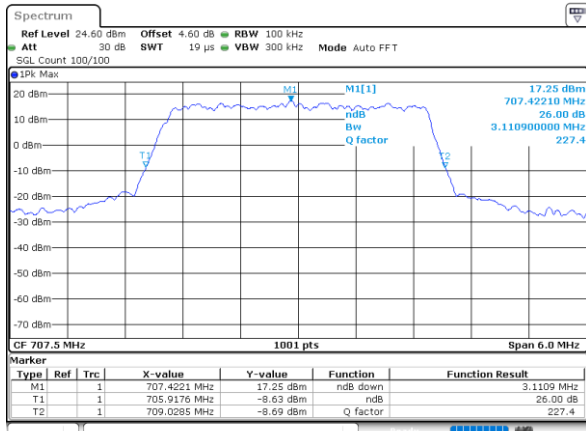
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.33	1.34
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.11	3.09
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.86	5.14
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	10.13	9.95





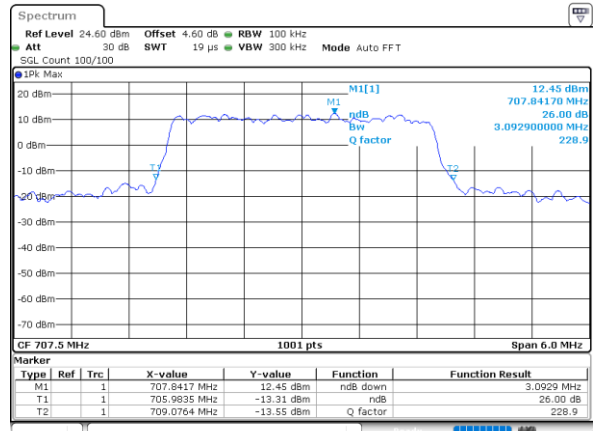
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 2, JAN, 2023 00:22:06

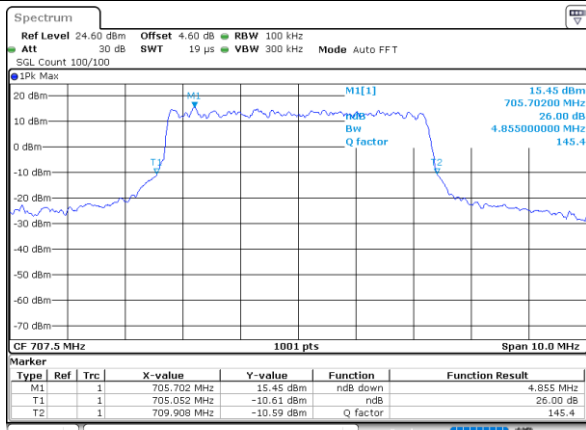
Middle Channel / 3MHz / 16QAM



Date: 2, JAN, 2023 00:22:27

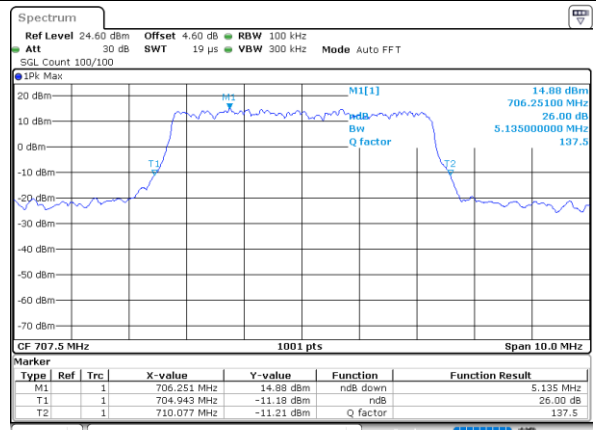
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 2, JAN, 2023 00:52:45

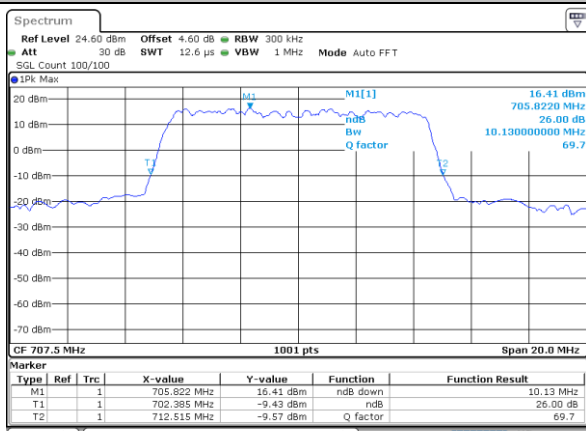
Middle Channel / 5MHz / 16QAM



Date: 2, JAN, 2023 00:53:06

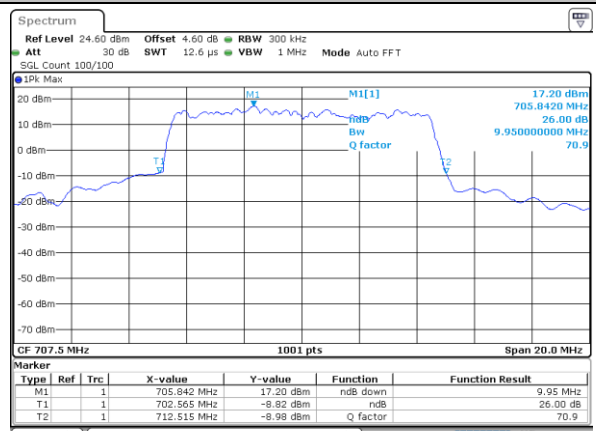
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 2, JAN, 2023 01:38:16

Middle Channel / 10MHz / 16QAM

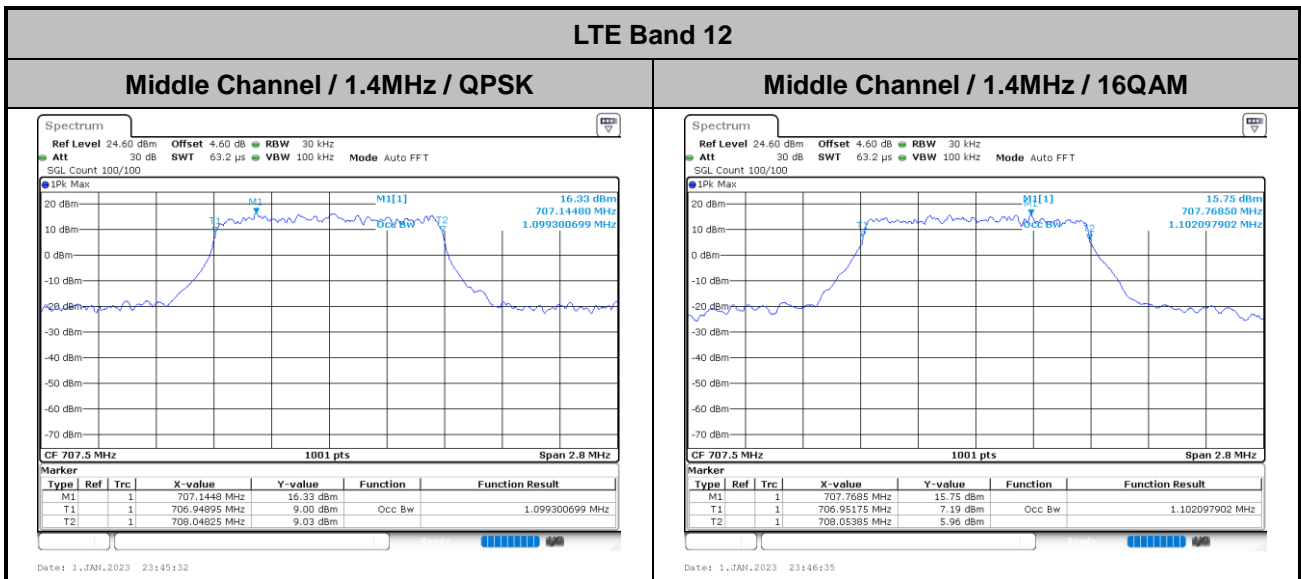


Date: 2, JAN, 2023 01:38:37



Occupied Bandwidth

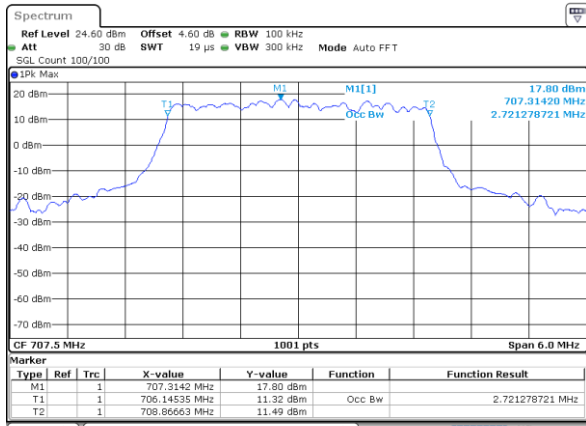
Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.72	2.73
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.51	4.52
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.03





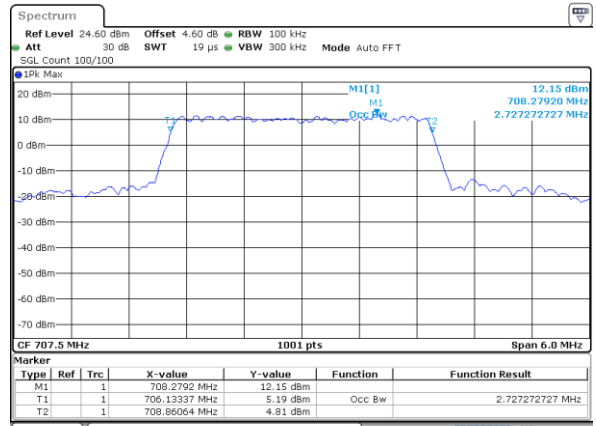
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 2..JAN.2023 00:21:45

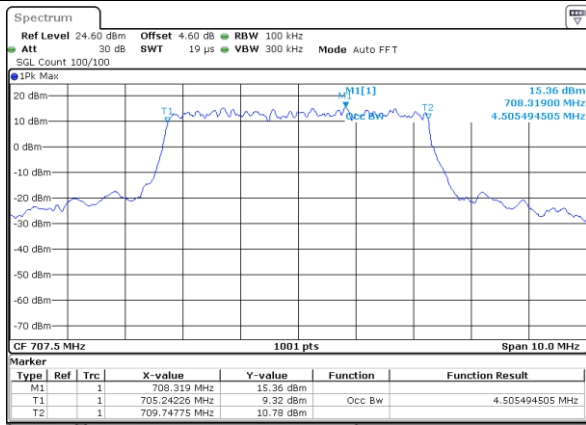
Middle Channel / 3MHz / 16QAM



Date: 2..JAN.2023 00:22:48

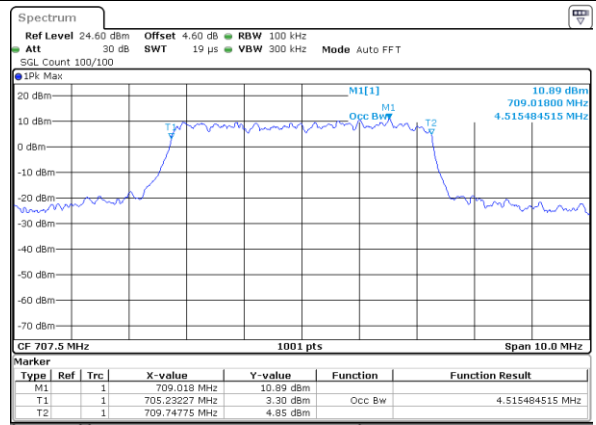
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 2..JAN.2023 00:52:24

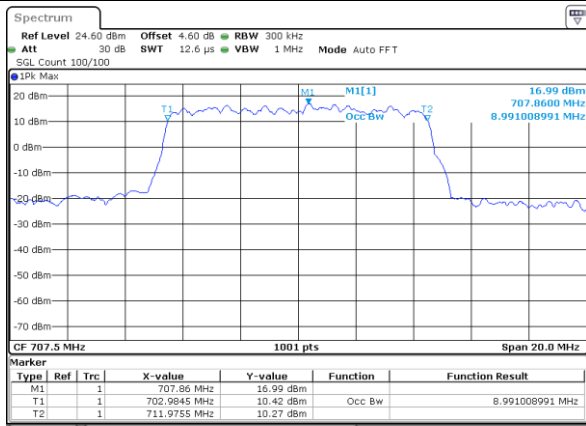
Middle Channel / 5MHz / 16QAM



Date: 2..JAN.2023 00:53:27

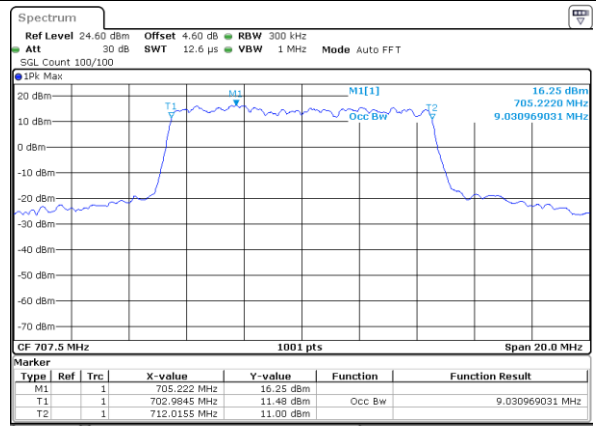
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 2..JAN.2023 01:37:34

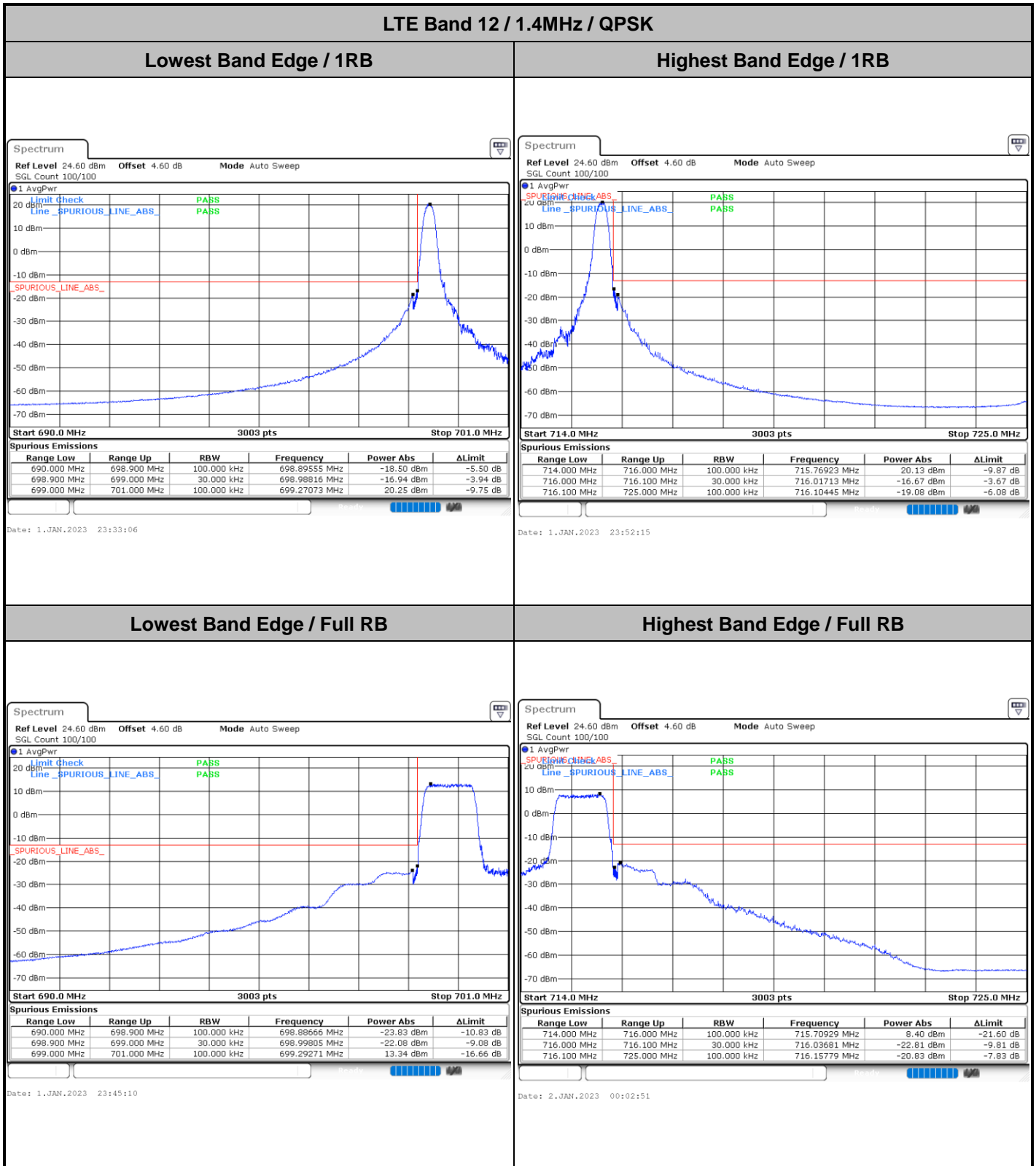
Middle Channel / 10MHz / 16QAM



Date: 2..JAN.2023 01:37:55



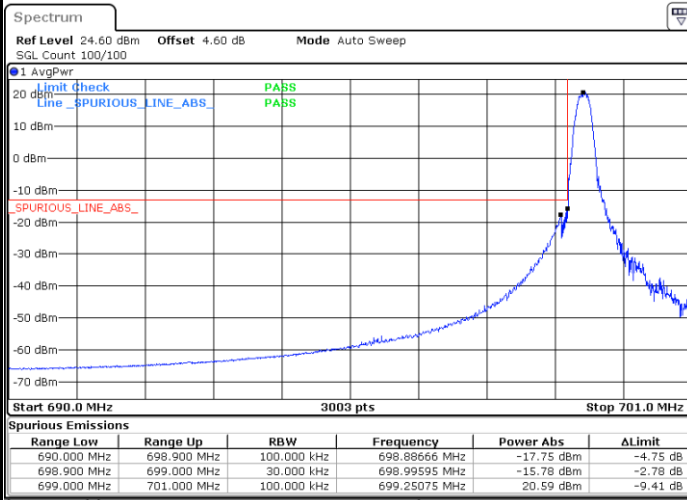
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



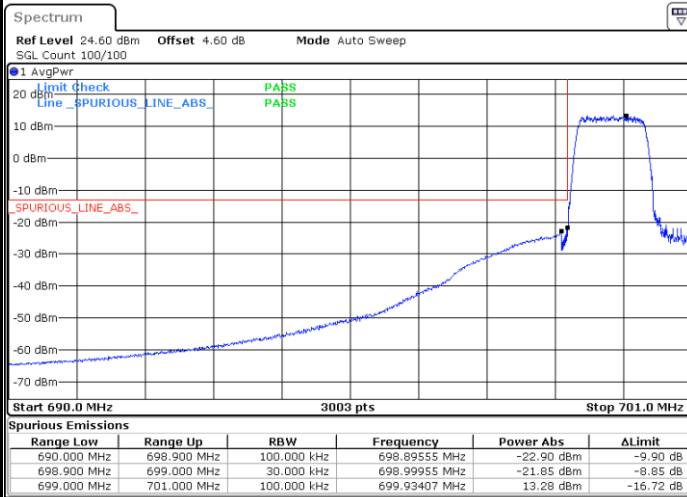
Date: 1.JAN.2023 23:35:06

Highest Band Edge / 1 RB



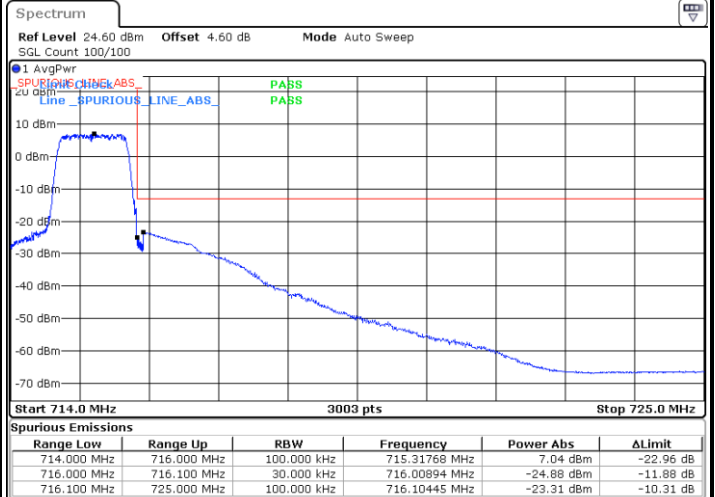
Date: 1.JAN.2023 23:53:45

Lowest Band Edge / Full RB



Date: 1.JAN.2023 23:43:40

Highest Band Edge / Full RB

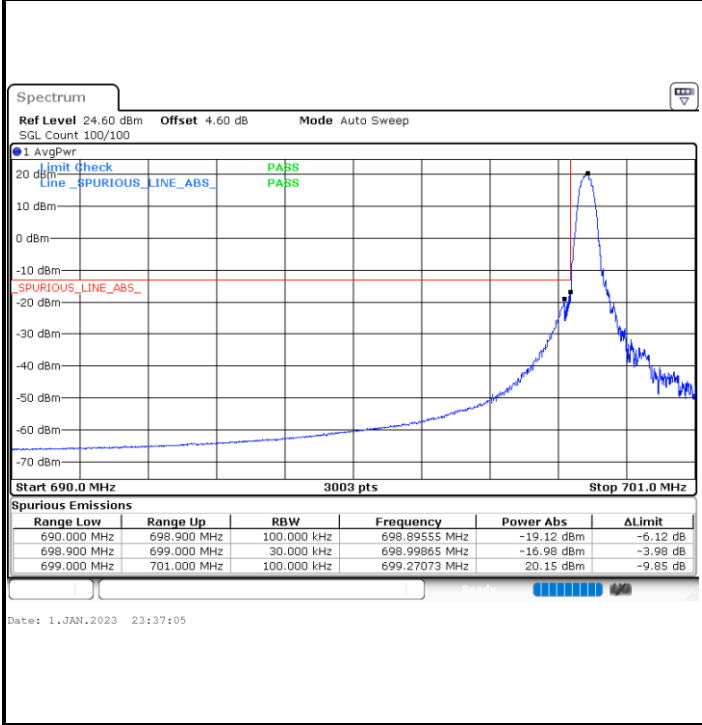


Date: 2.JAN.2023 00:01:21

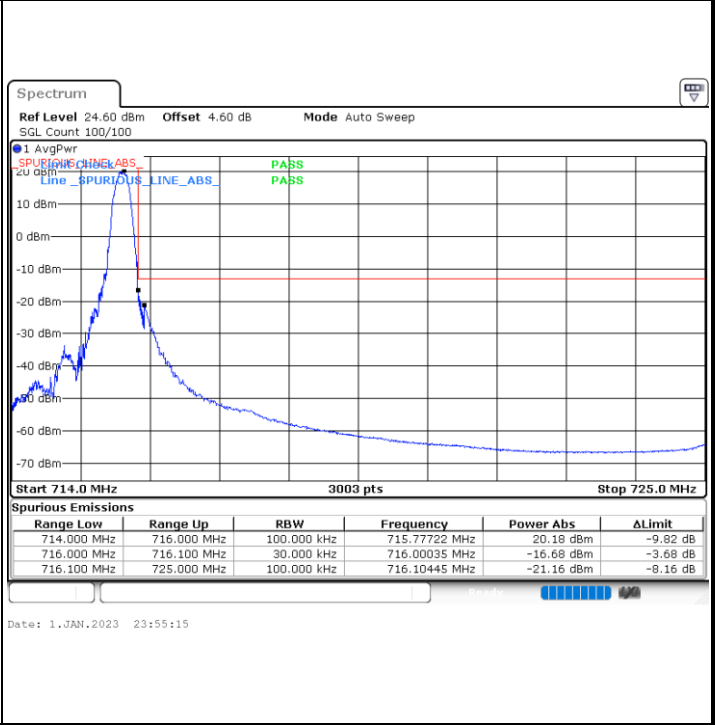


LTE Band 12 / 1.4MHz / 64QAM

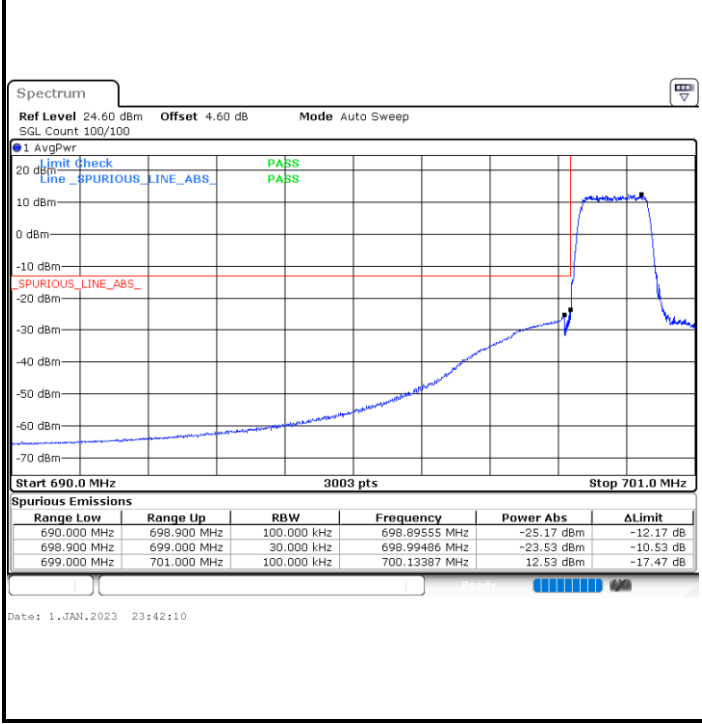
Lowest Band Edge / 1 RB



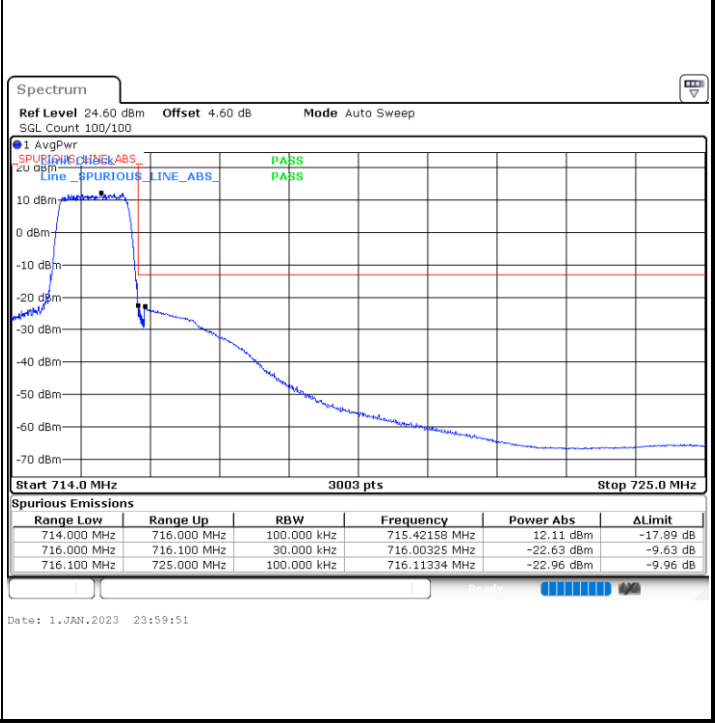
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



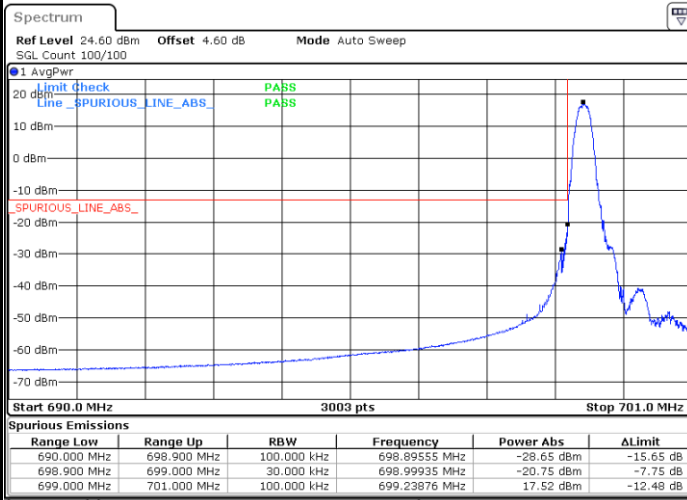
Highest Band Edge / Full RB





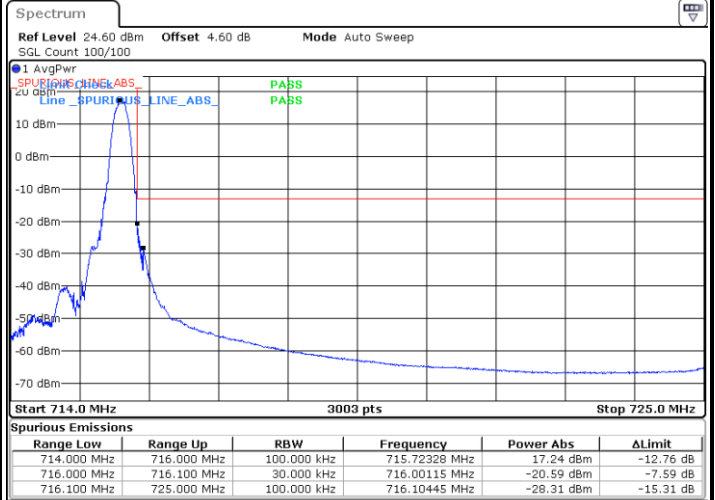
LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



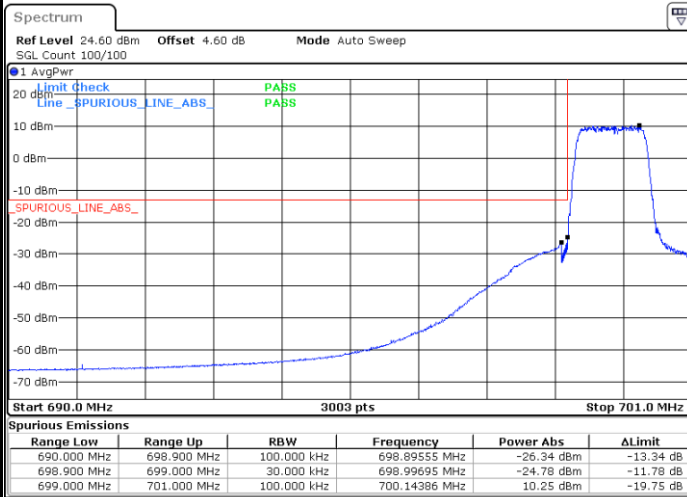
Date: 1.JAN.2023 23:38:45

Highest Band Edge / 1 RB



Date: 1.JAN.2023 23:56:45

Lowest Band Edge / Full RB



Date: 1.JAN.2023 23:40:28

Highest Band Edge / Full RB

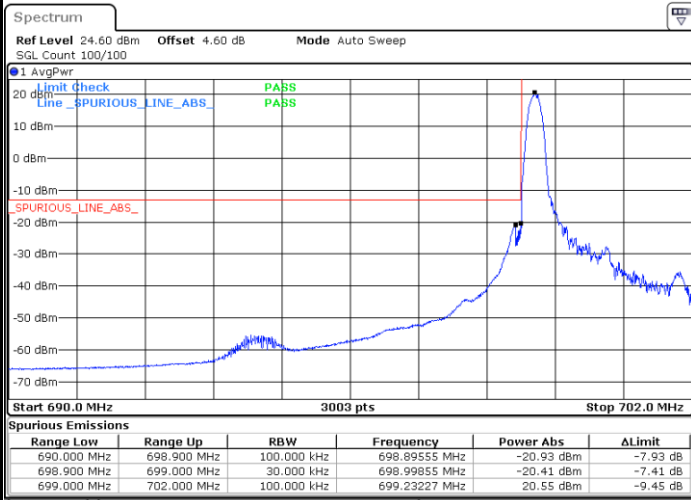


Date: 1.JAN.2023 23:58:18



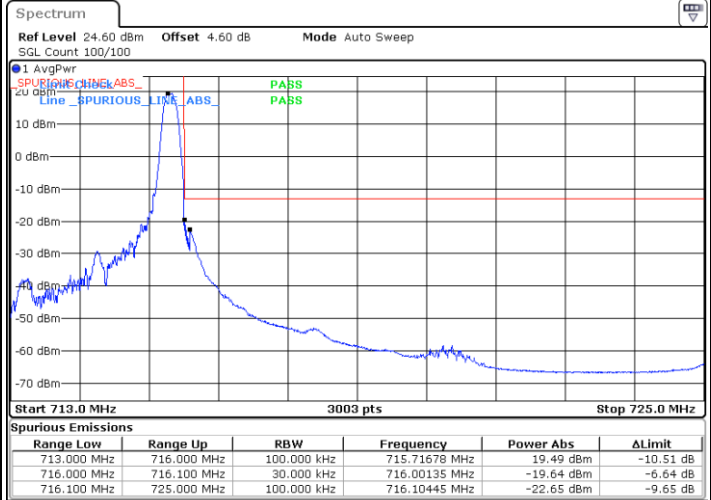
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



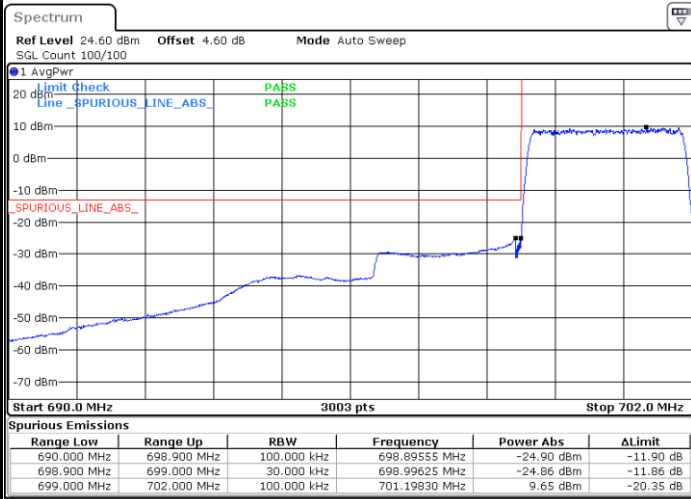
Date: 2.JAN.2023 00:05:41

Highest Band Edge / 1 RB



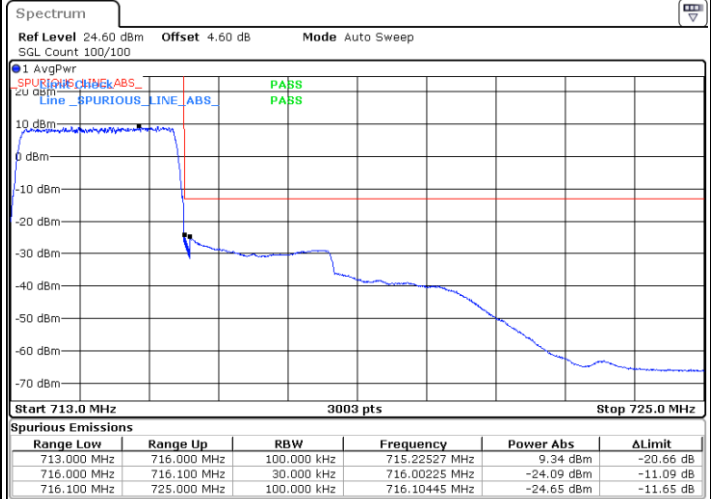
Date: 2.JAN.2023 00:26:57

Lowest Band Edge / Full RB



Date: 2.JAN.2023 00:21:24

Highest Band Edge / Full RB

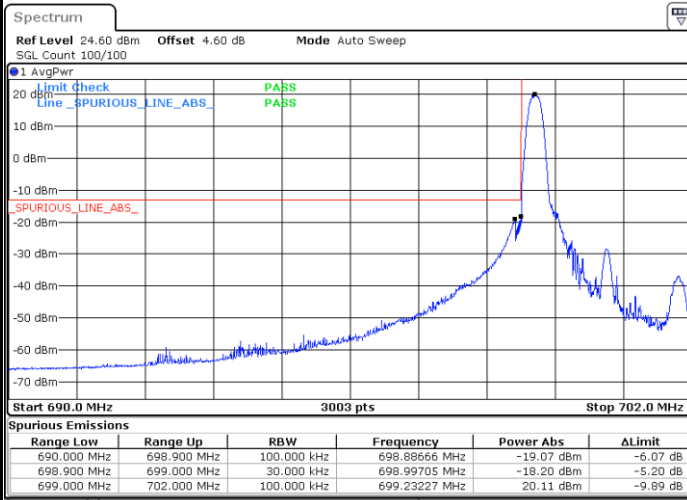


Date: 2.JAN.2023 00:37:32



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



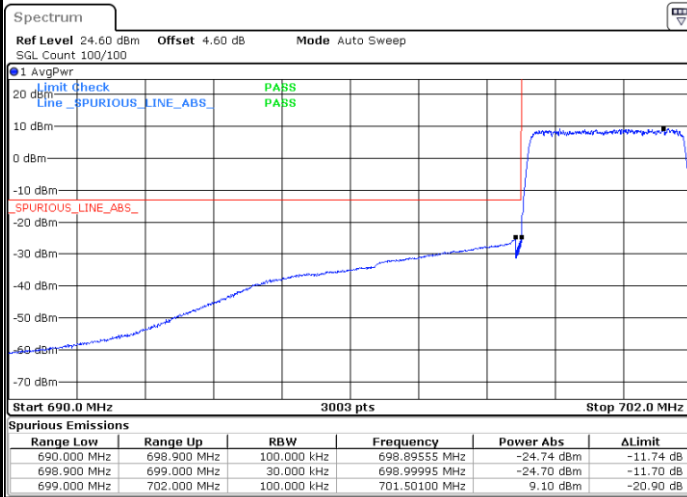
Date: 2.JAN.2023 00:07:11

Highest Band Edge / 1 RB



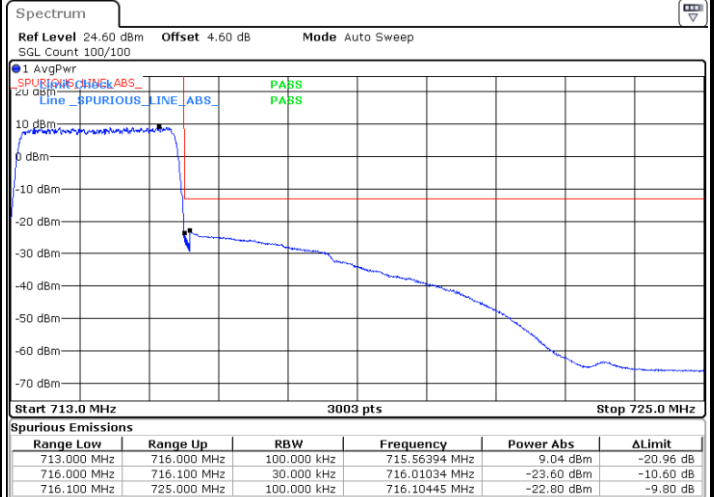
Date: 2.JAN.2023 00:28:27

Lowest Band Edge / Full RB



Date: 2.JAN.2023 00:19:54

Highest Band Edge / Full RB

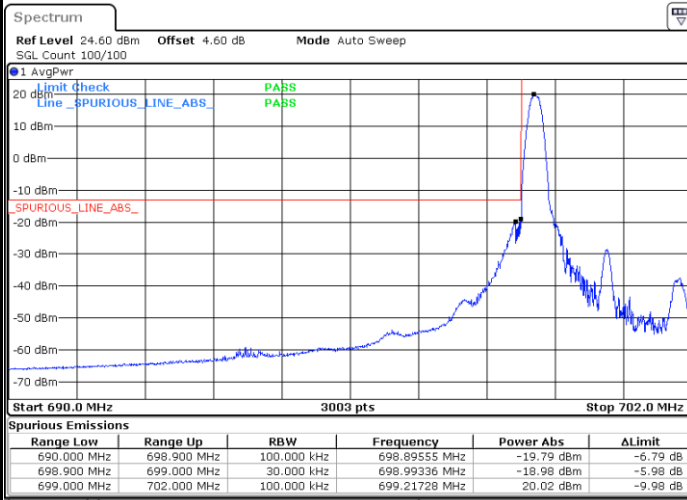


Date: 2.JAN.2023 00:36:02



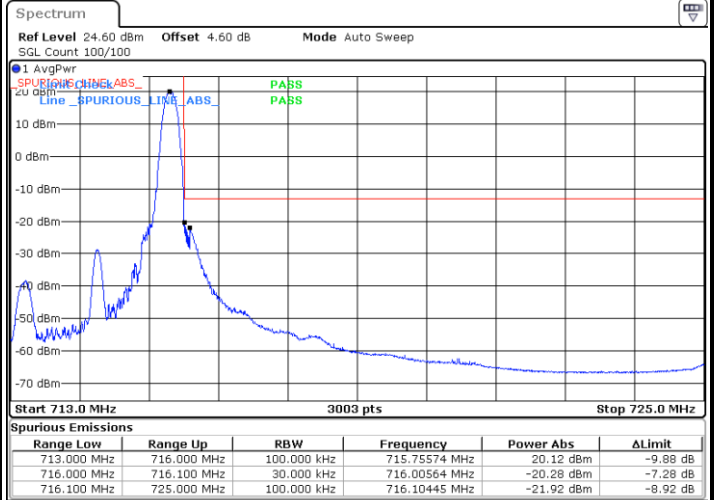
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



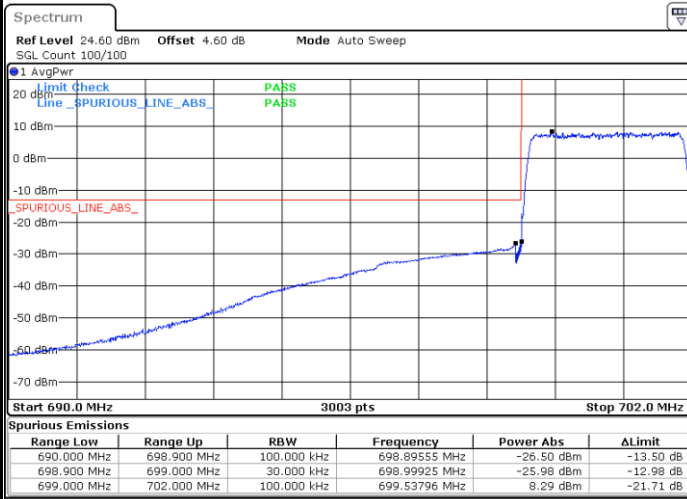
Date: 2, JAN, 2023 00:08:41

Highest Band Edge / 1 RB



Date: 2, JAN, 2023 00:29:56

Lowest Band Edge / Full RB



Date: 2, JAN, 2023 00:18:24

Highest Band Edge / Full RB

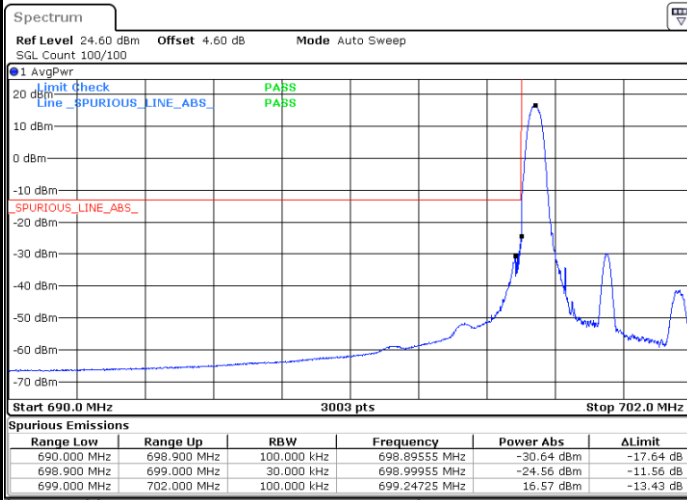


Date: 2, JAN, 2023 00:34:32



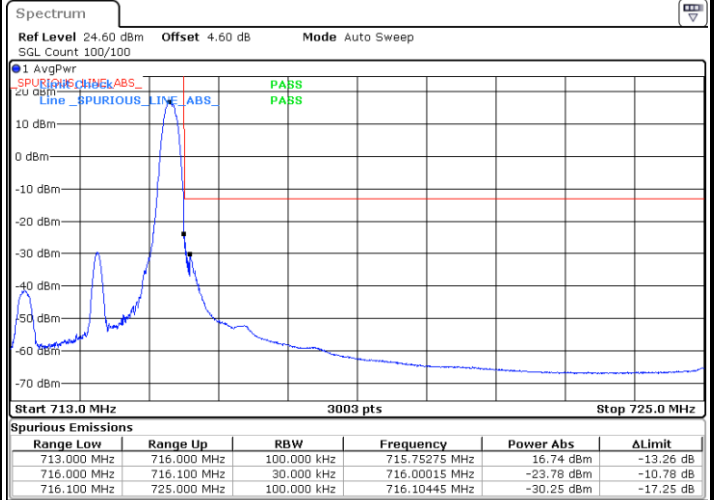
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



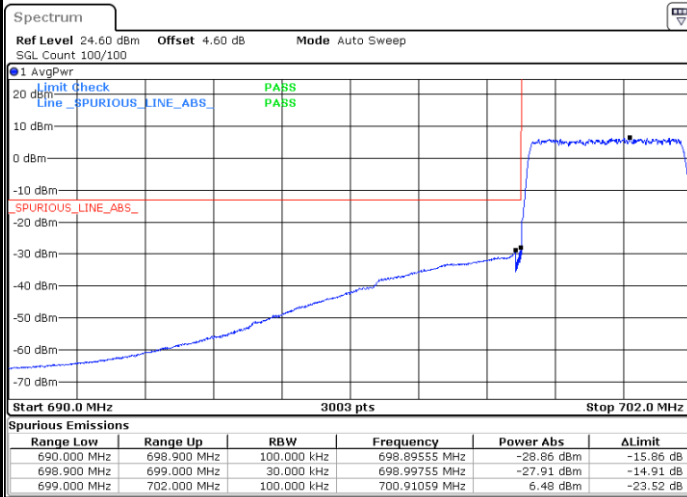
Date: 2.JAN.2023 00:10:10

Highest Band Edge / 1 RB



Date: 2.JAN.2023 00:31:26

Lowest Band Edge / Full RB



Date: 2.JAN.2023 00:16:51

Highest Band Edge / Full RB



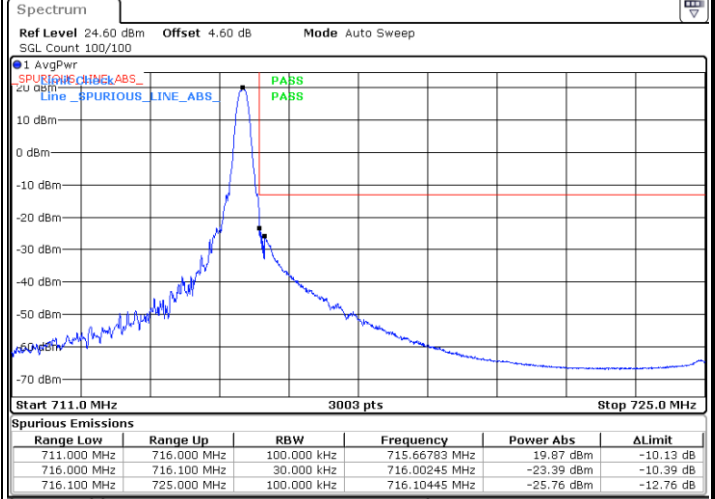
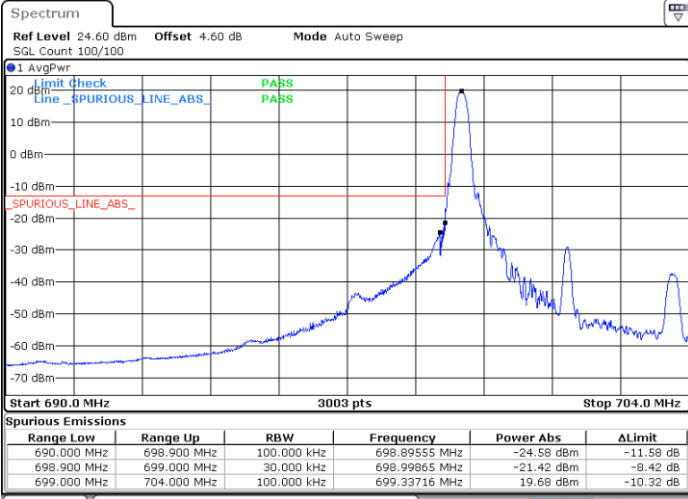
Date: 2.JAN.2023 00:33:00



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

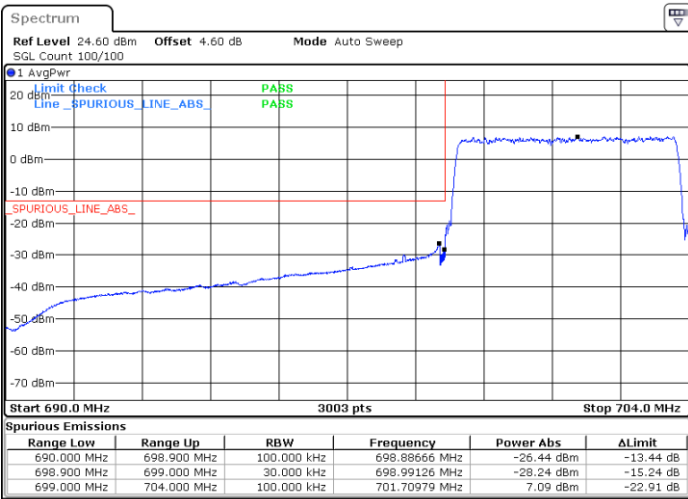


Date: 2.JAN.2023 00:40:23

Date: 2.JAN.2023 00:57:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



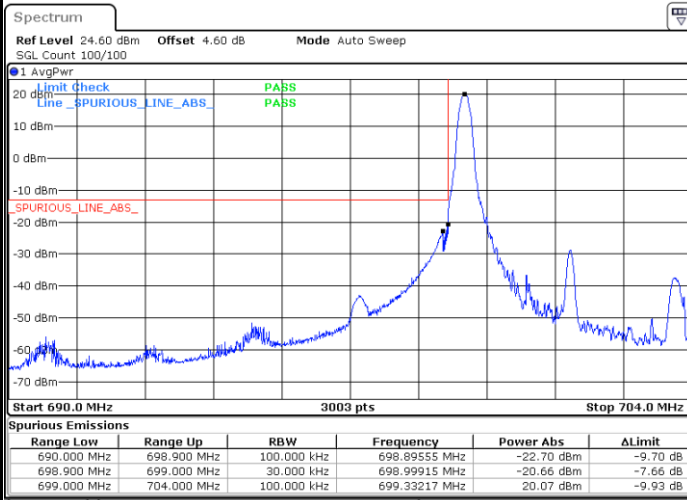
Date: 2.JAN.2023 00:52:03

Date: 2.JAN.2023 01:08:12



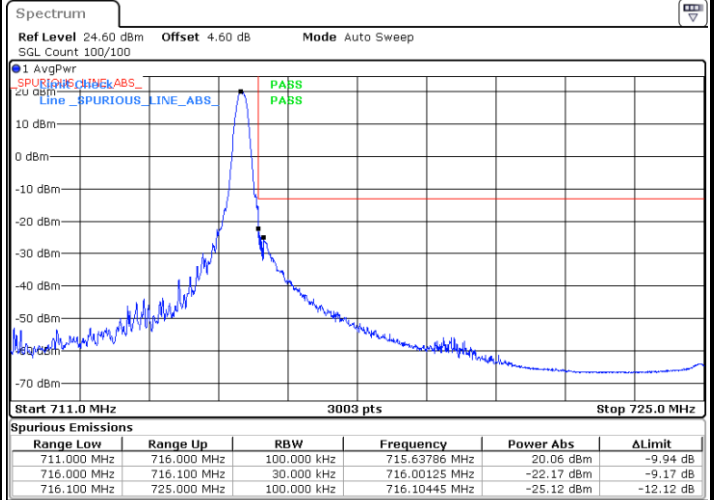
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



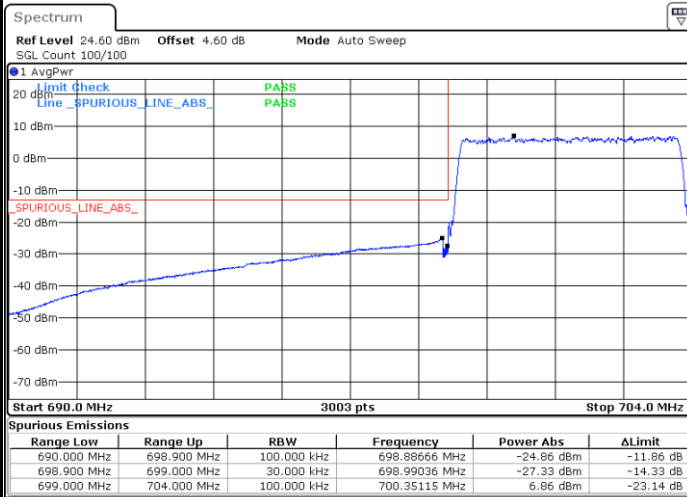
Date: 2.JAN.2023 00:41:53

Highest Band Edge / 1 RB



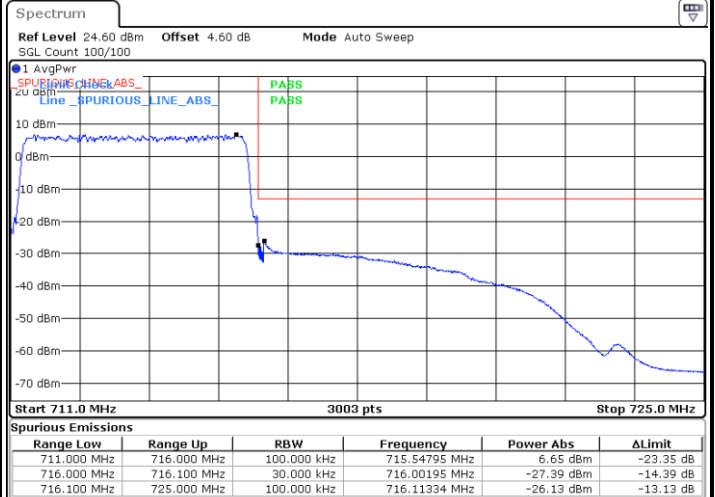
Date: 2.JAN.2023 00:59:06

Lowest Band Edge / Full RB



Date: 2.JAN.2023 00:50:33

Highest Band Edge / Full RB

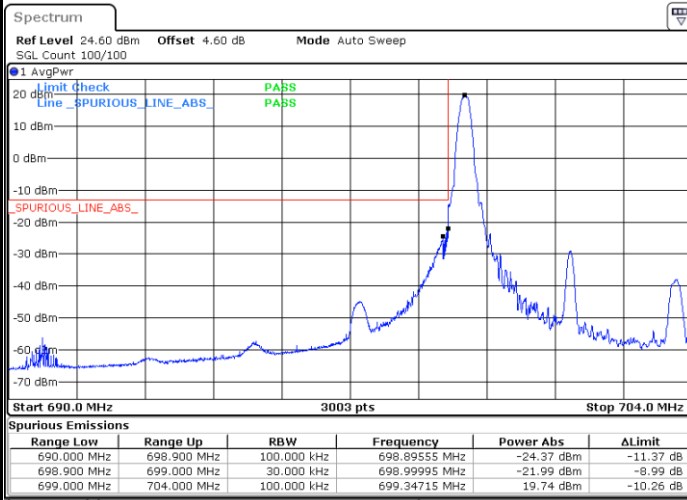


Date: 2.JAN.2023 01:06:42



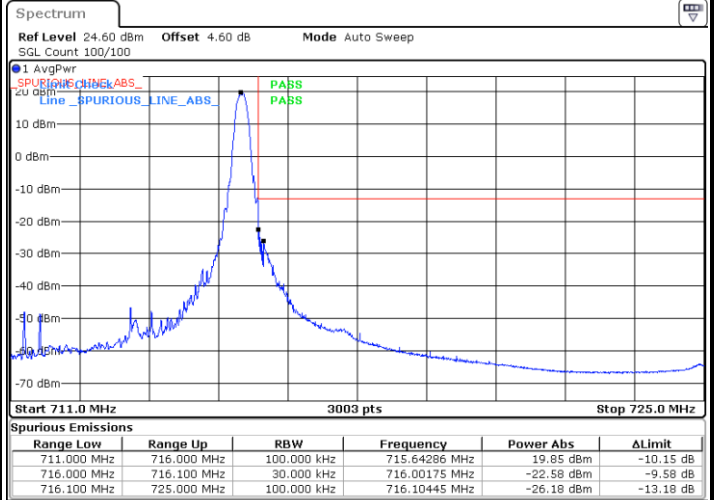
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



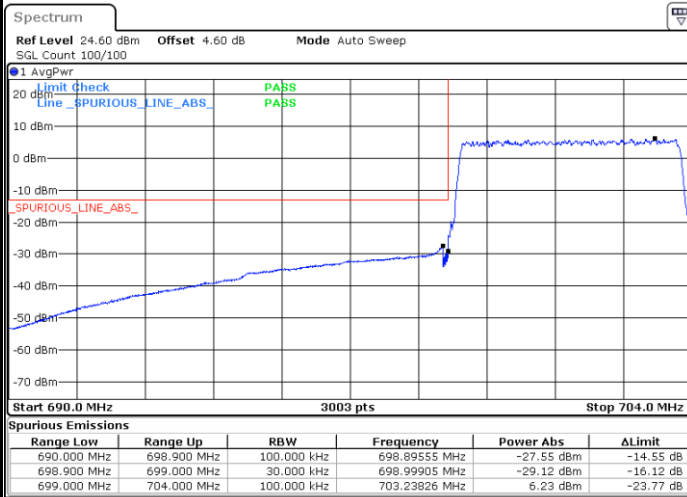
Date: 2, JAN, 2023 00:43:23

Highest Band Edge / 1 RB



Date: 2, JAN, 2023 01:00:36

Lowest Band Edge / Full RB



Date: 2, JAN, 2023 00:49:03

Highest Band Edge / Full RB

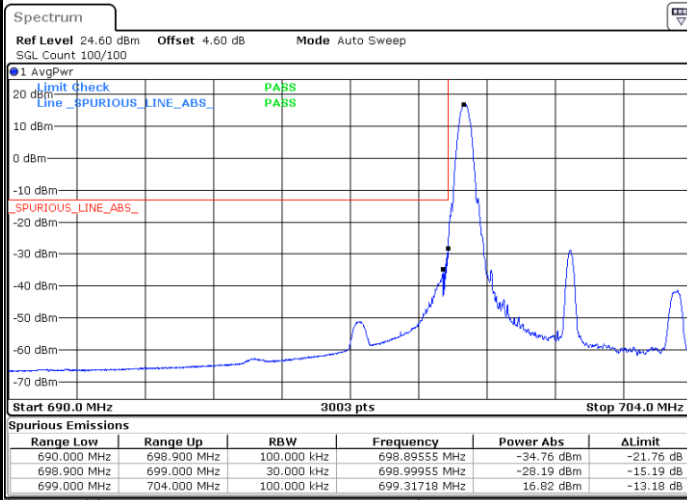


Date: 2, JAN, 2023 01:05:12



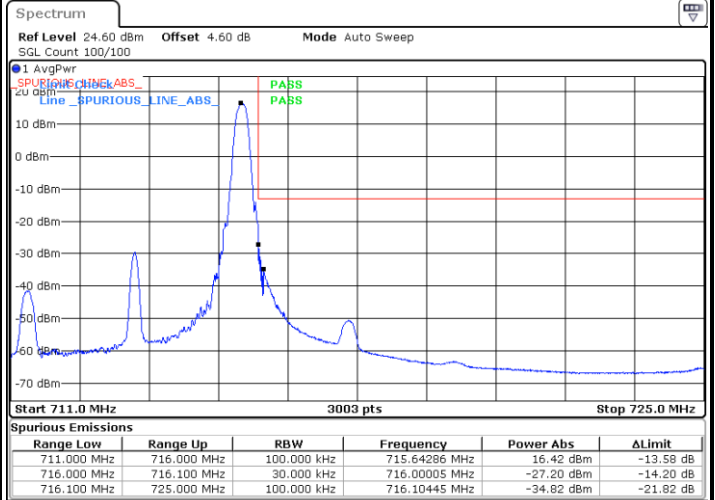
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



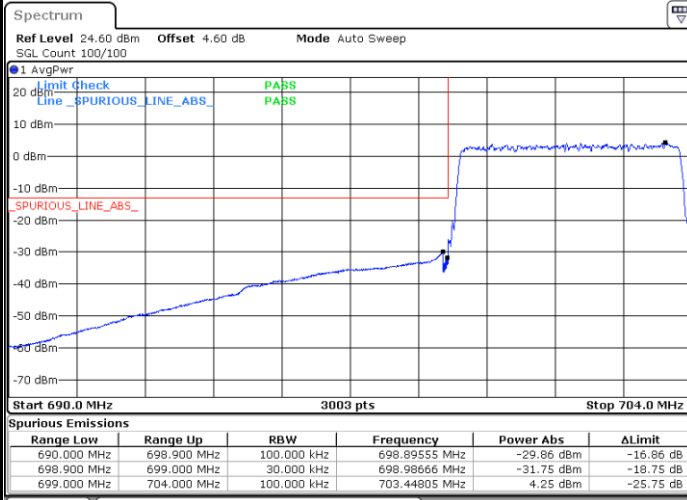
Date: 2.JAN.2023 00:44:53

Highest Band Edge / 1 RB



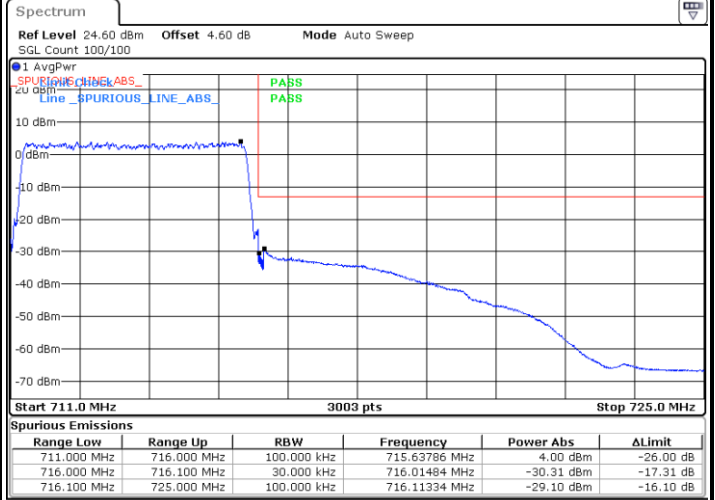
Date: 2.JAN.2023 01:02:06

Lowest Band Edge / Full RB



Date: 2.JAN.2023 00:47:30

Highest Band Edge / Full RB



Date: 2.JAN.2023 01:03:39