



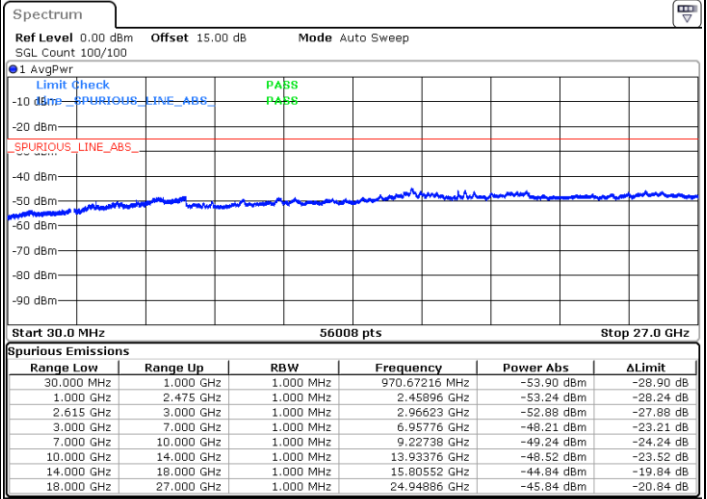
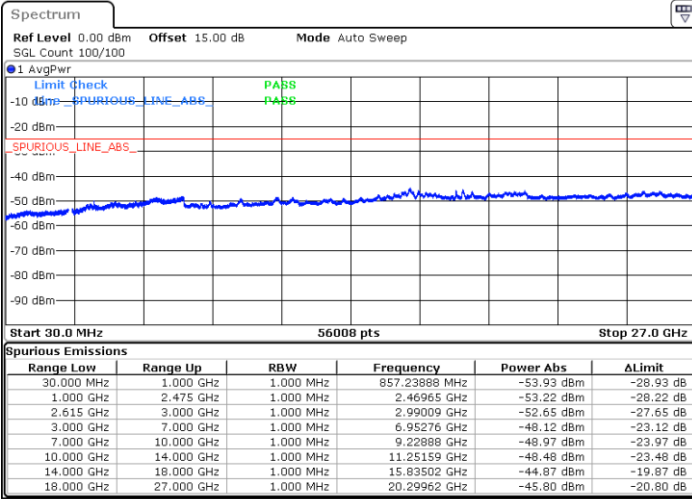
Conducted Spurious Emission

LTE Band 7C / 10MHz+20MHz

QPSK

Lowest Channel / QPSK

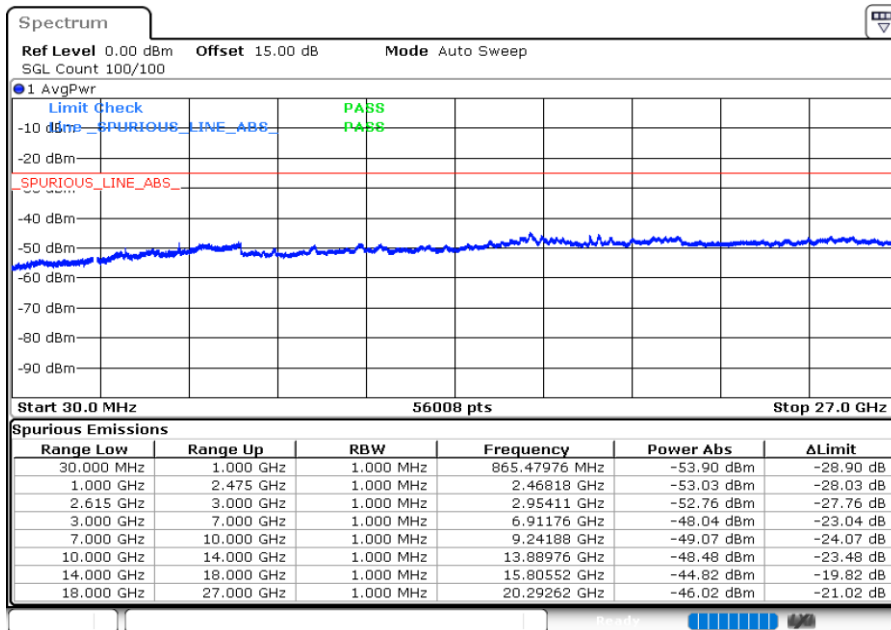
Middle Channel / QPSK



Date: 19.JUN.2023 08:50:46

Date: 19.JUN.2023 08:52:31

Highest Channel / QPSK



Date: 19.JUN.2023 09:01:47

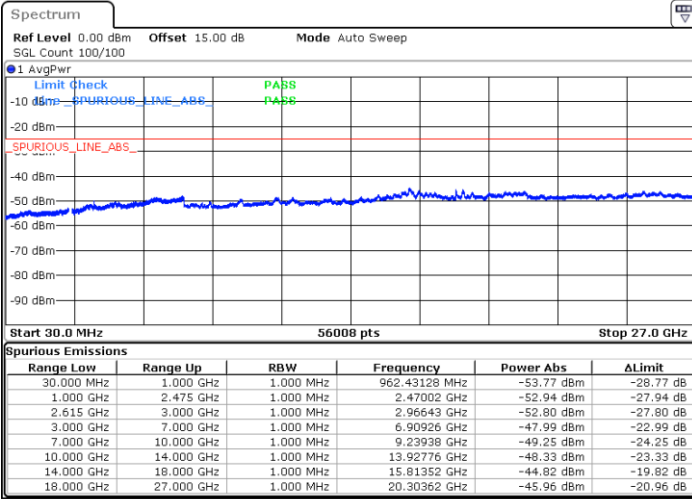


LTE Band 7C / 15MHz+10MHz

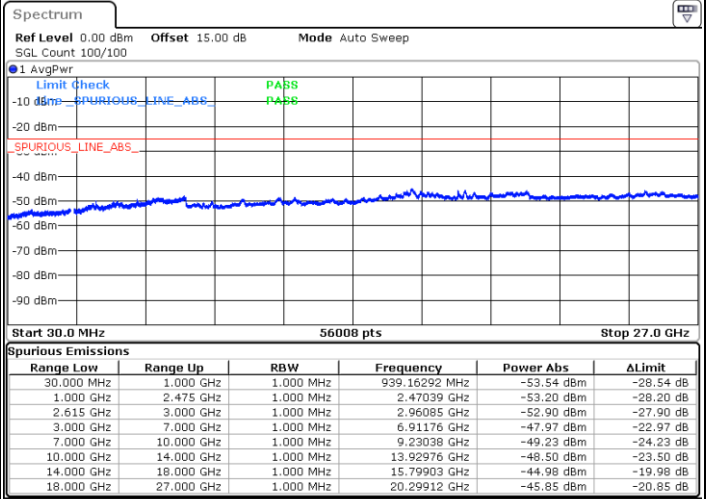
QPSK

Lowest Channel / QPSK

Middle Channel / QPSK

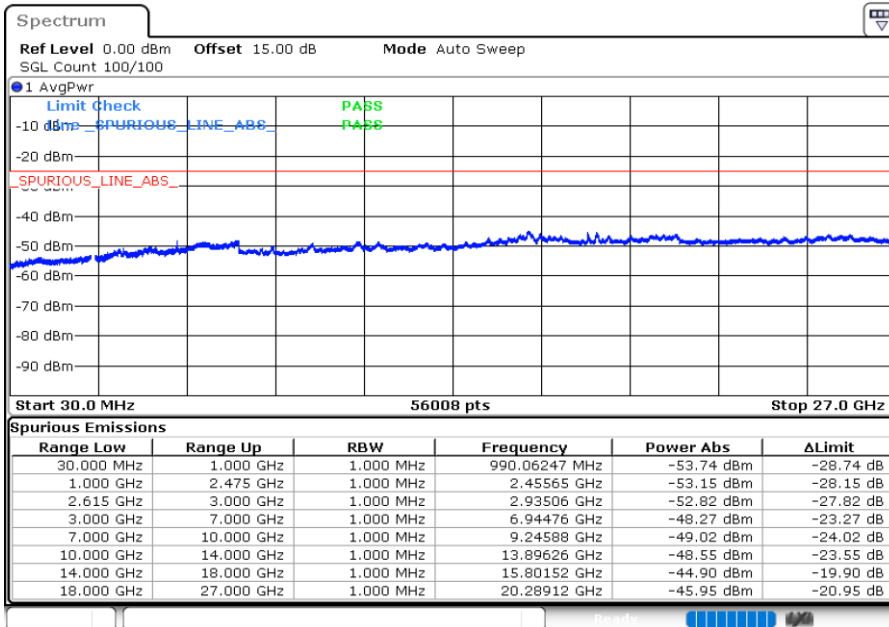


Date: 19.JUN.2023 10:32:37



Date: 19.JUN.2023 10:34:22

Highest Channel / QPSK



Date: 19.JUN.2023 10:43:40

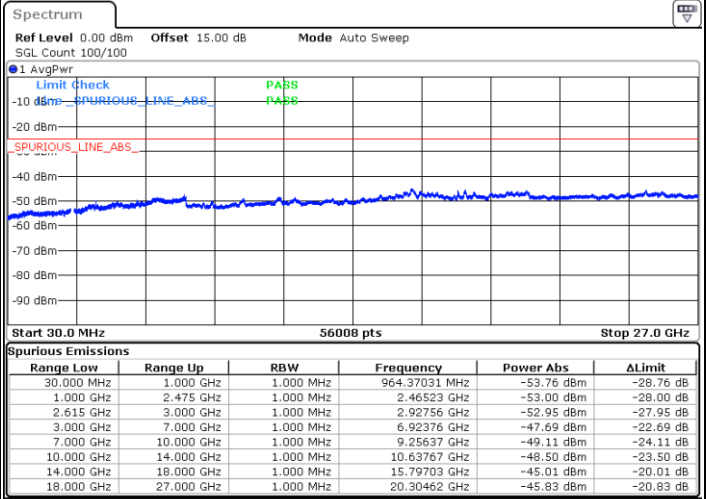
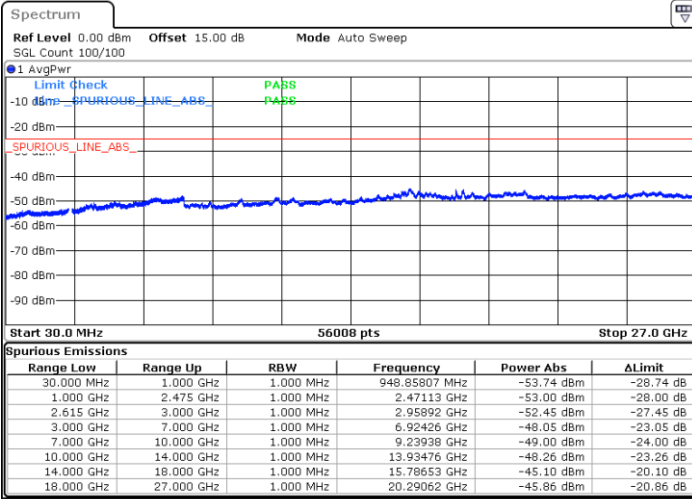


LTE Band 7C / 15MHz+15MHz

QPSK

Lowest Channel / QPSK

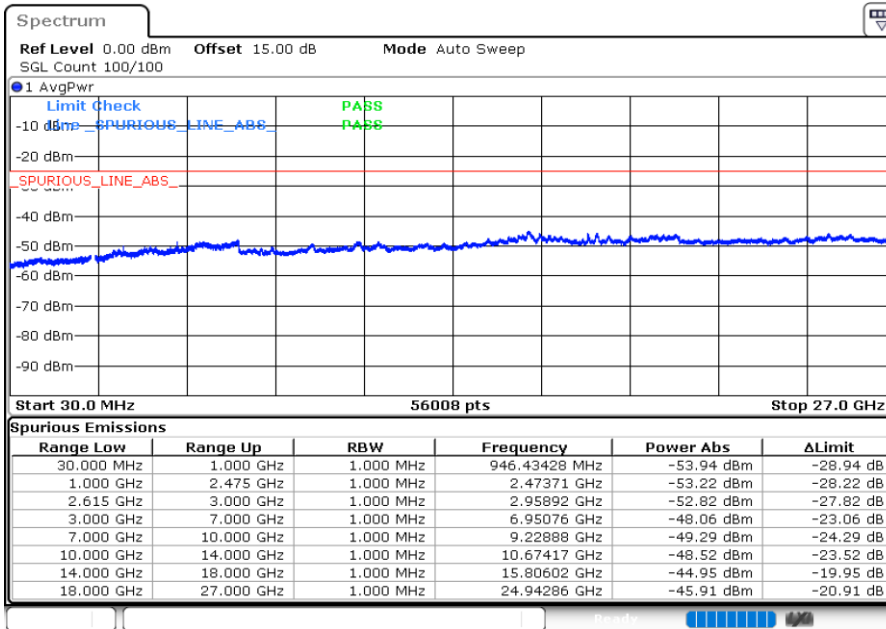
Middle Channel / QPSK



Date: 19.JUN.2023 09:31:28

Date: 19.JUN.2023 09:33:13

Highest Channel / QPSK



Date: 19.JUN.2023 09:42:32

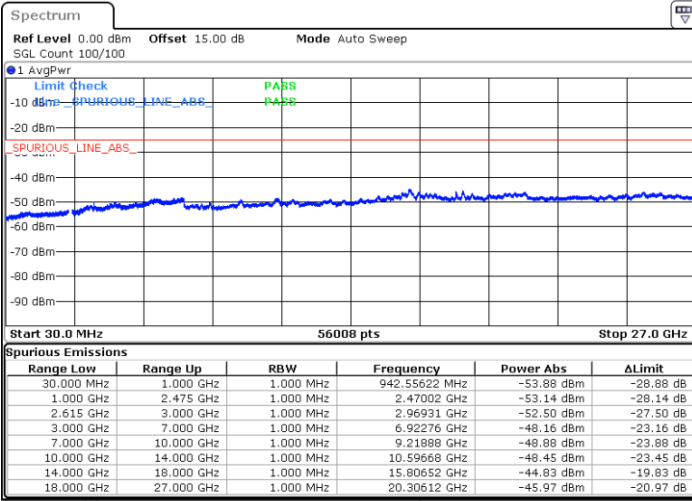


LTE Band 7C / 15MHz+20MHz

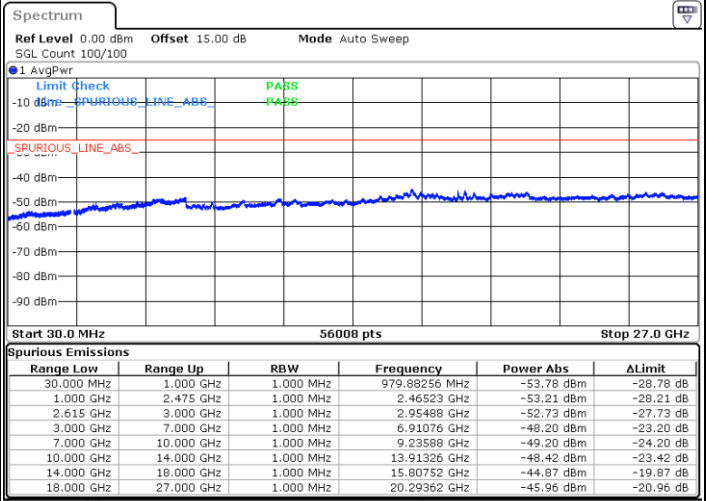
QPSK

Lowest Channel / QPSK

Middle Channel / QPSK

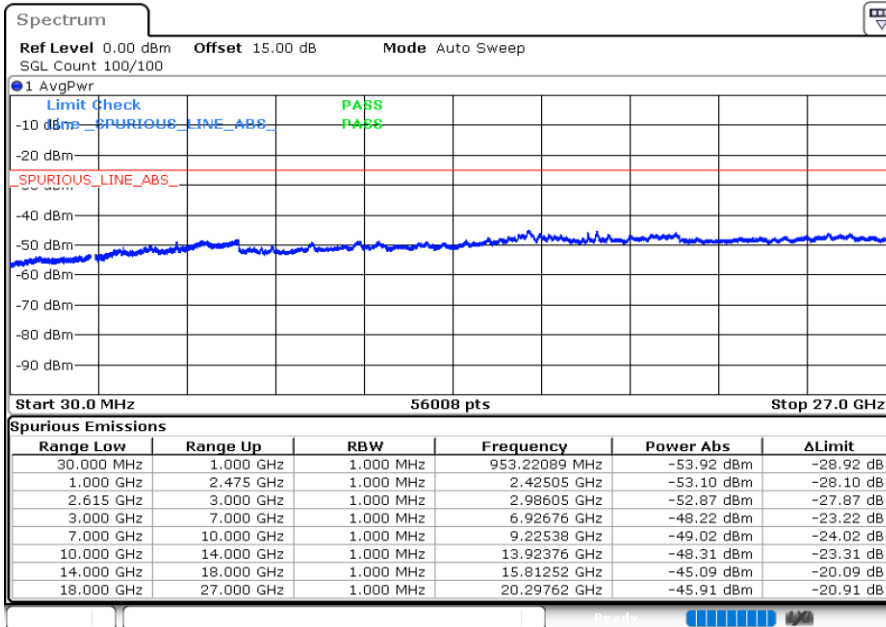


Date: 19.JUN.2023 09:51:52



Date: 19.JUN.2023 09:53:37

Highest Channel / QPSK



Date: 19.JUN.2023 10:02:56

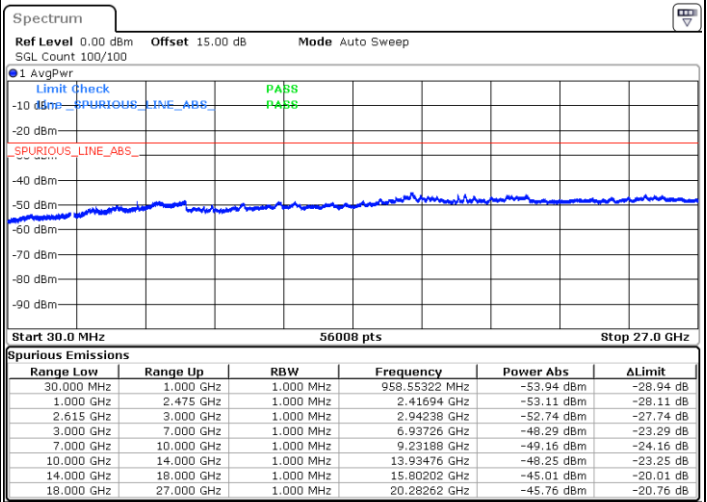
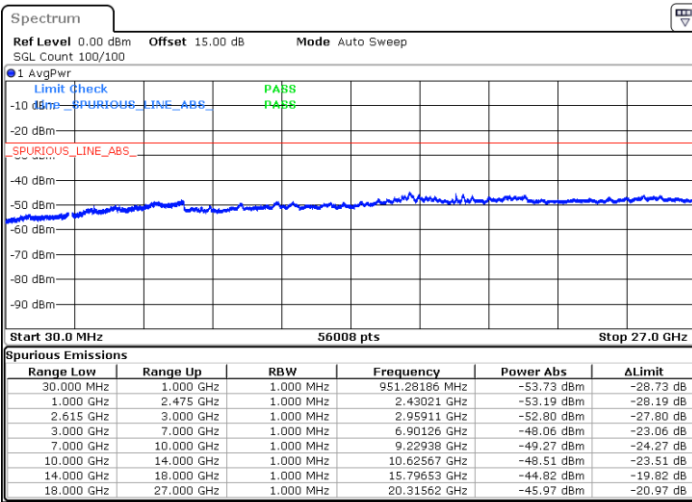


LTE Band 7C / 20MHz+10MHz

QPSK

Lowest Channel / QPSK

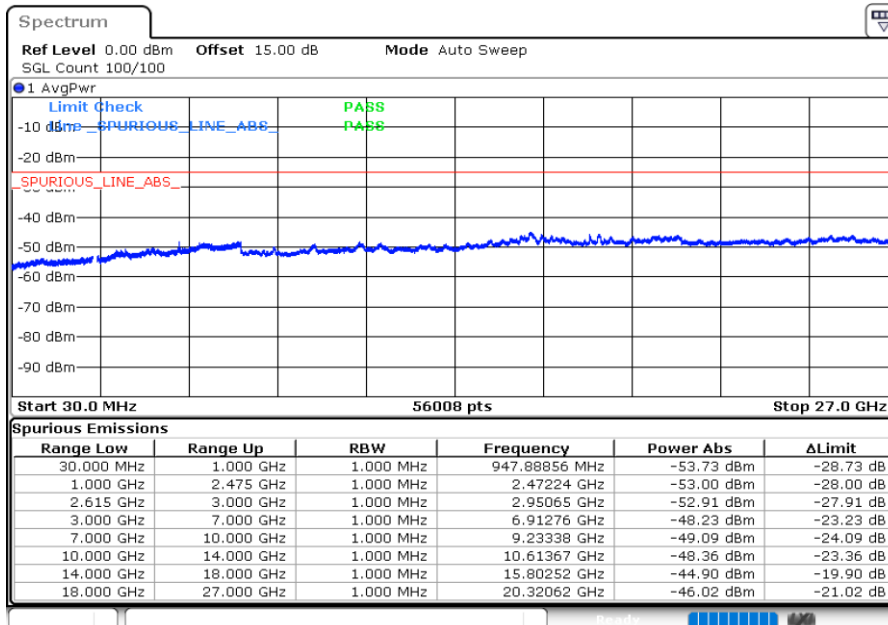
Middle Channel / QPSK



Date: 19.JUN.2023 09:11:05

Date: 19.JUN.2023 09:12:50

Highest Channel / QPSK



Date: 19.JUN.2023 09:22:09

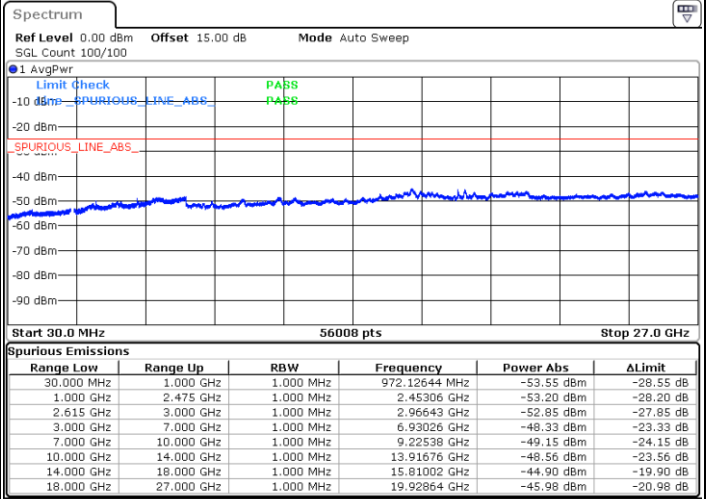
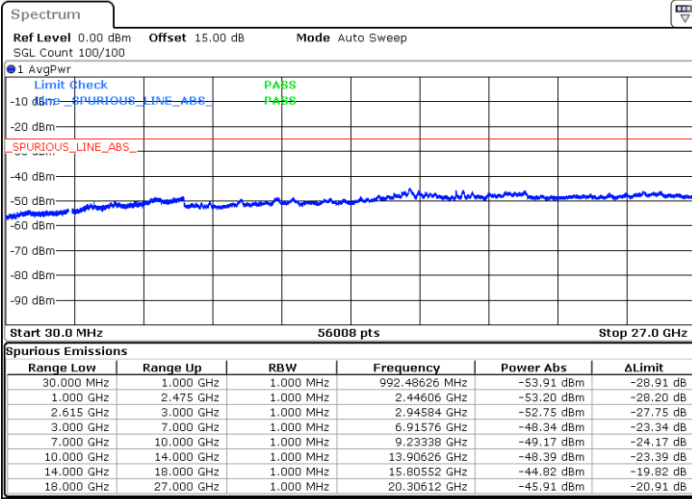


LTE Band 7C / 20MHz+15MHz

QPSK

Lowest Channel / QPSK

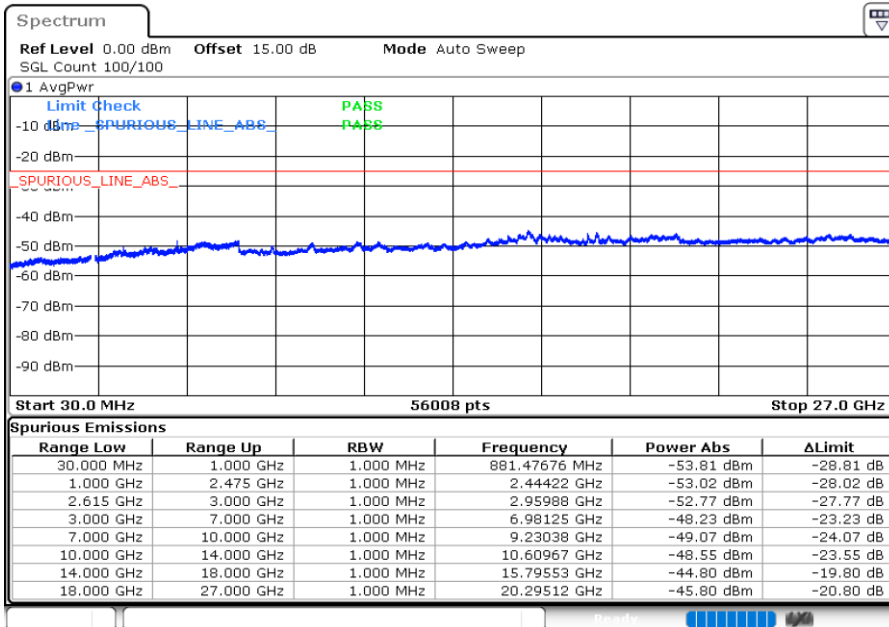
Middle Channel / QPSK



Date: 19.JUN.2023 10:12:15

Date: 19.JUN.2023 10:14:01

Highest Channel / QPSK



Date: 19.JUN.2023 10:23:18

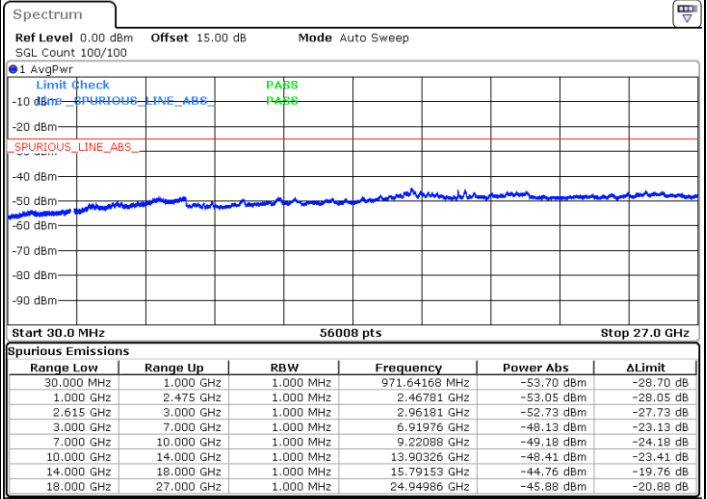
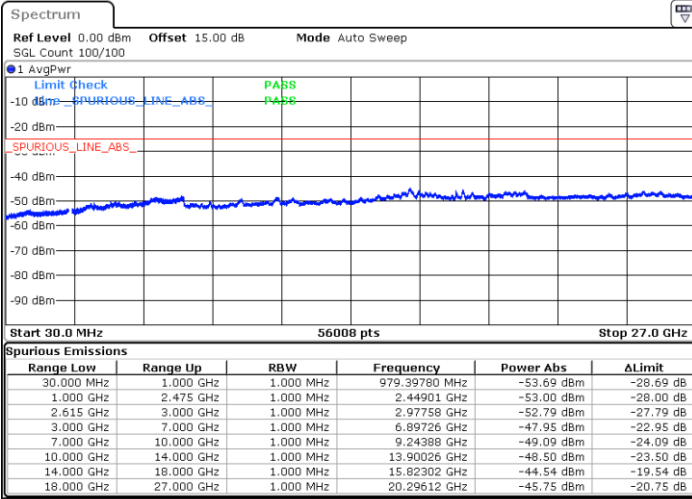


LTE Band 7C / 20MHz+20MHz

QPSK

Lowest Channel / QPSK

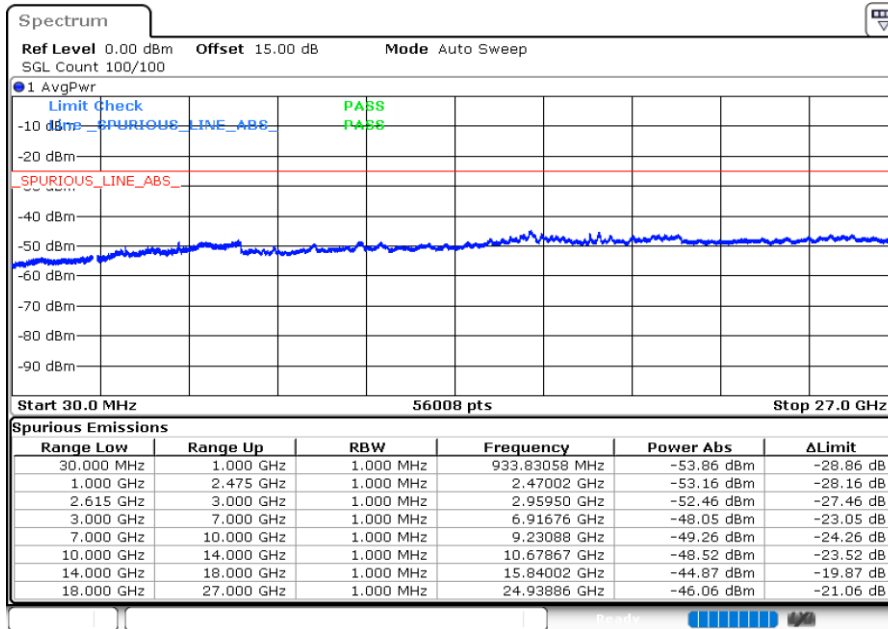
Middle Channel / QPSK



Date: 19.JUN.2023 10:52:58

Date: 19.JUN.2023 10:54:44

Highest Channel / QPSK



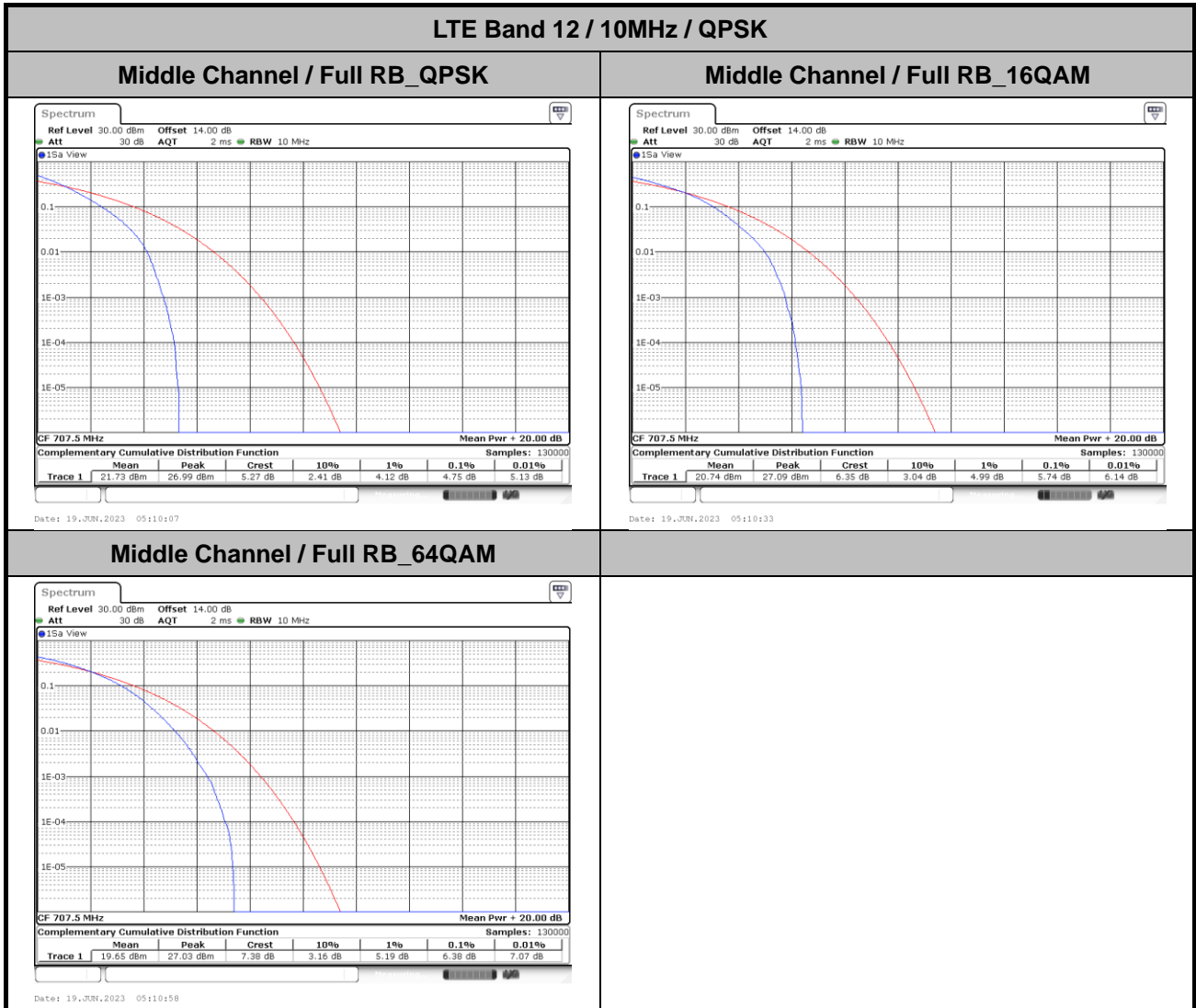
Date: 19.JUN.2023 11:04:01



LTE Band 12

Peak-to-Average Ratio

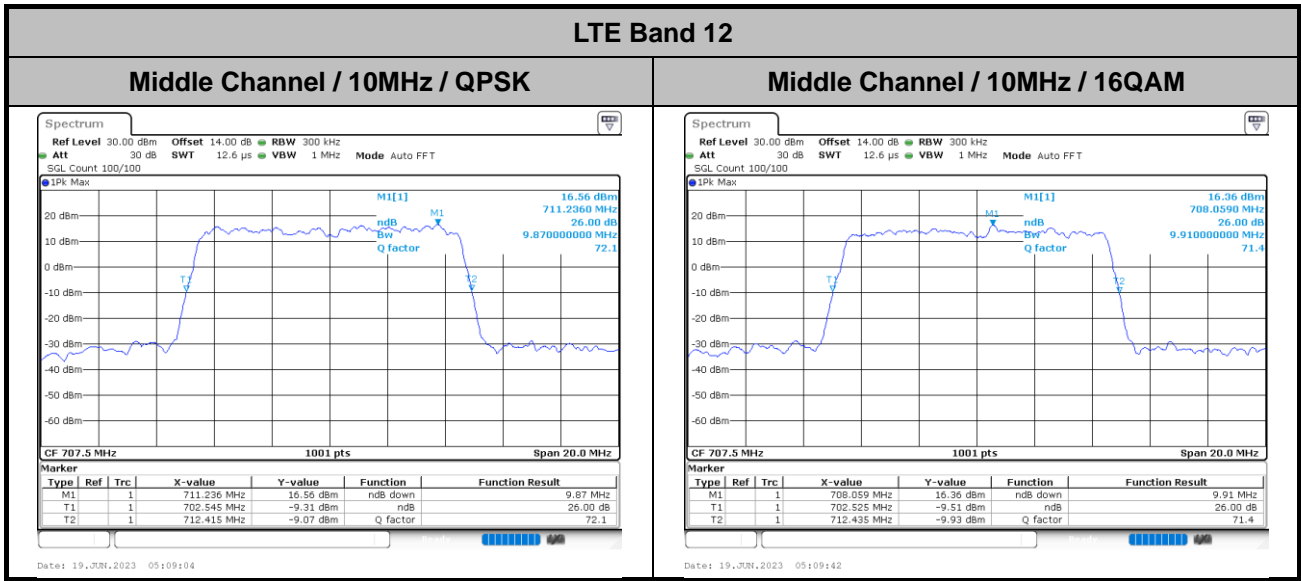
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.74	6.38	PASS





26dB Bandwidth

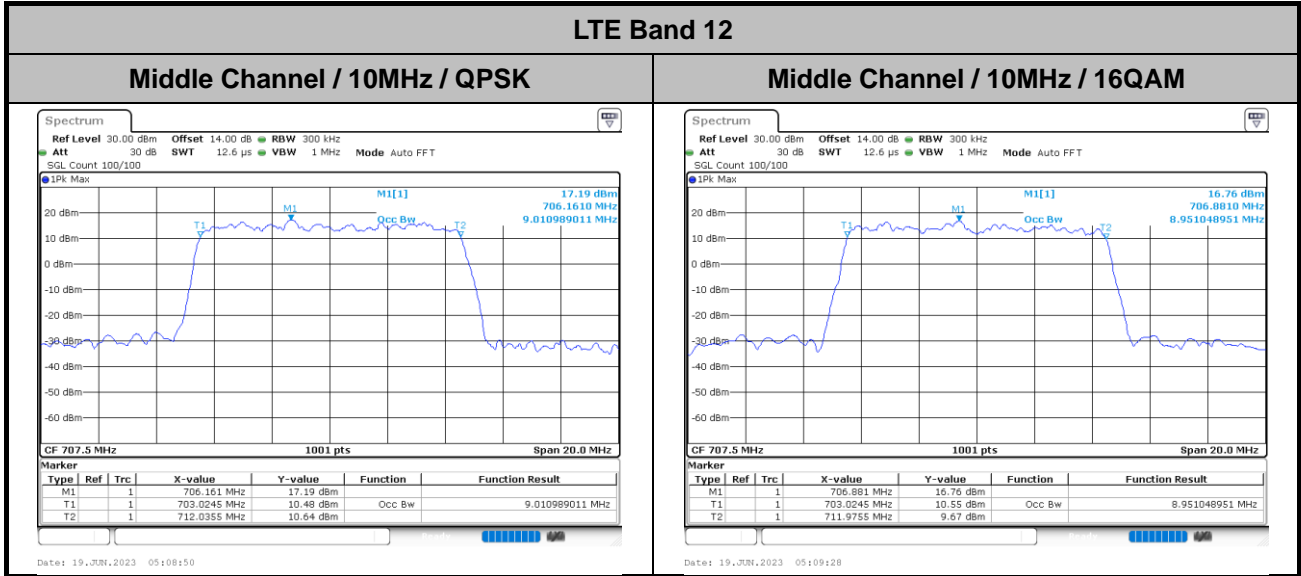
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.87	9.91





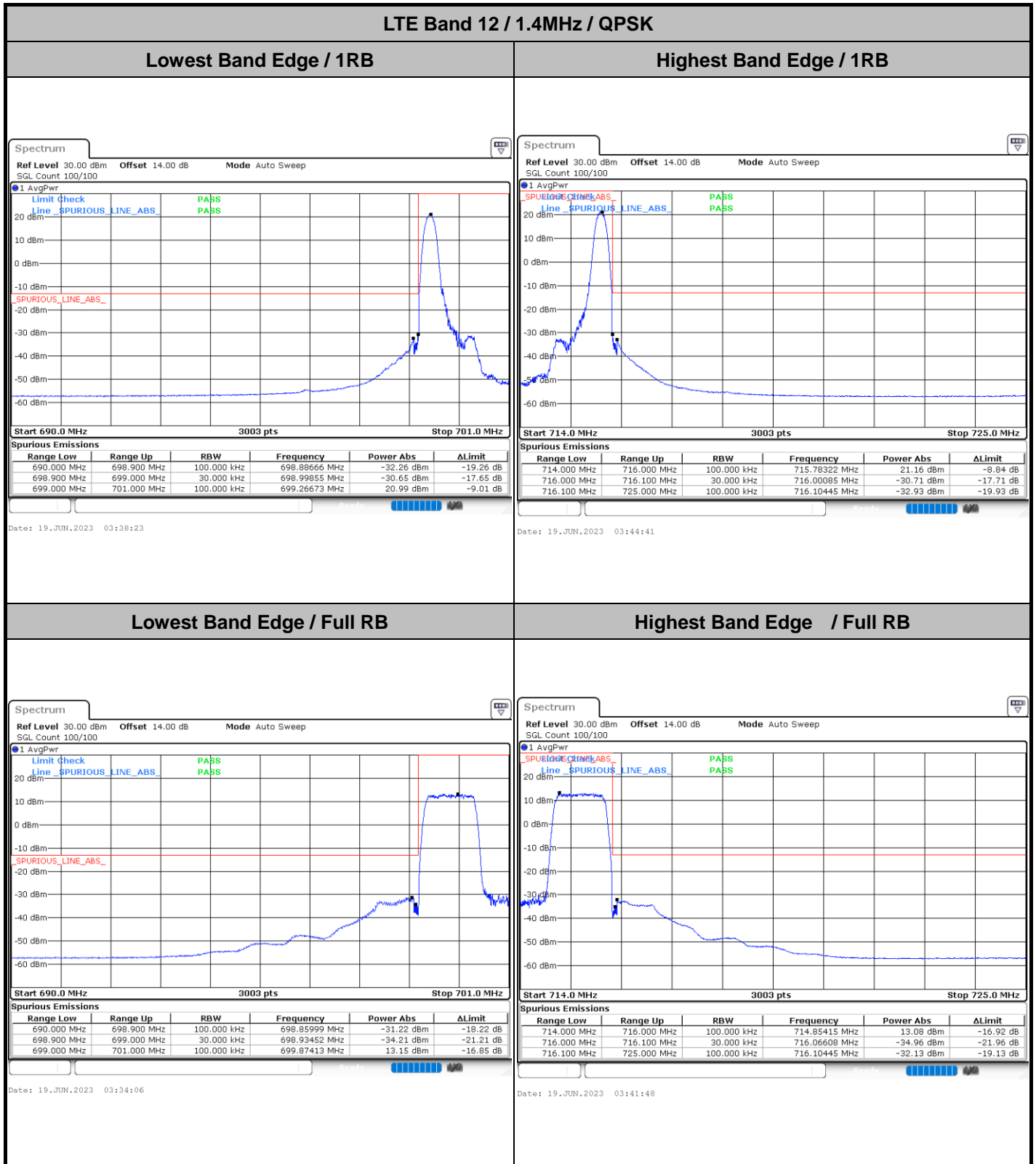
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	8.95





Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



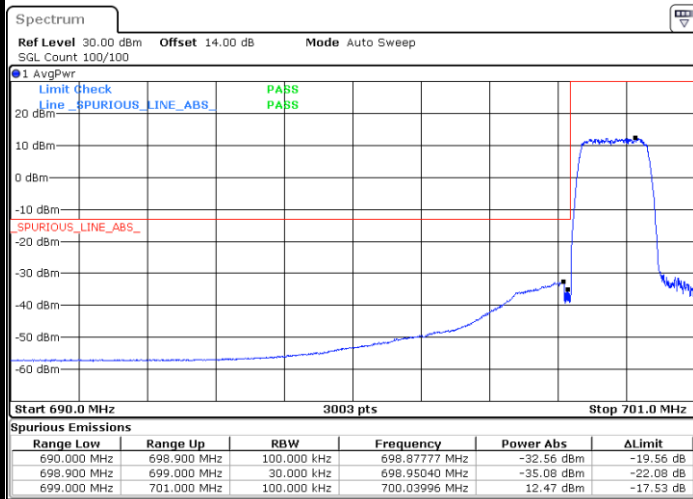
Date: 19 JUN.2023 03:39:36

Highest Band Edge / 1 RB



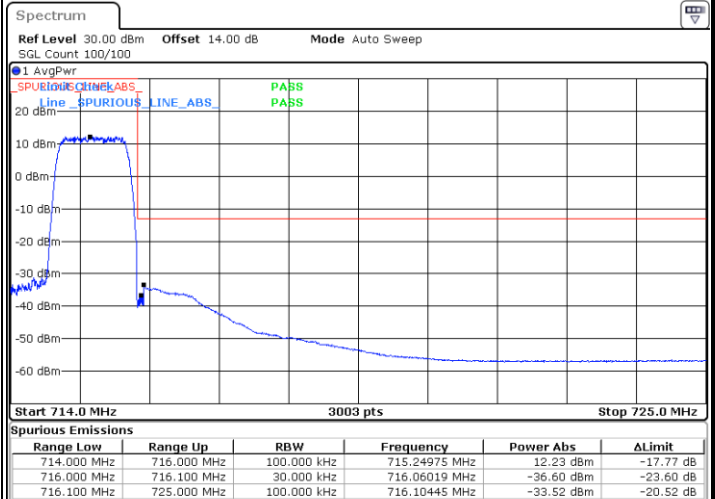
Date: 19 JUN.2023 03:45:39

Lowest Band Edge / Full RB



Date: 19 JUN.2023 03:35:19

Highest Band Edge / Full RB

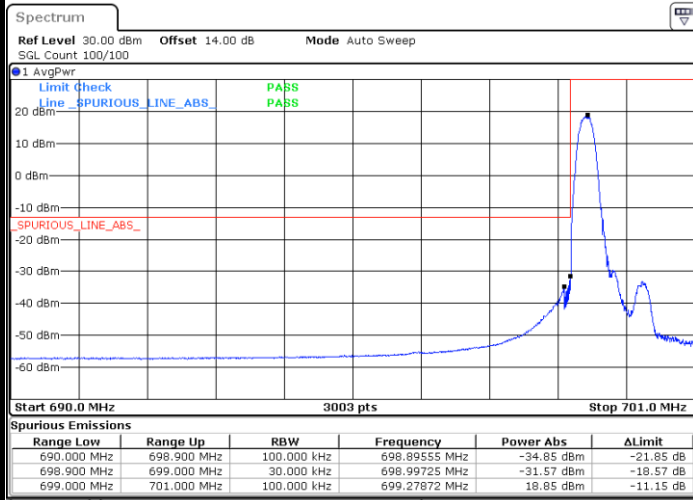


Date: 19 JUN.2023 03:42:45



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



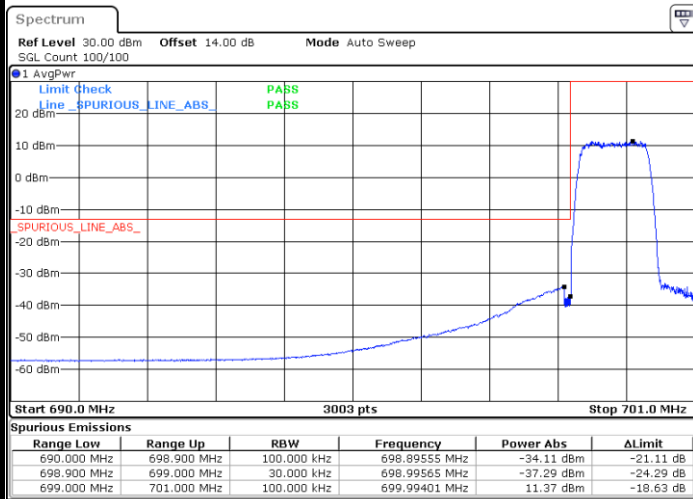
Date: 19 JUN 2023 03:40:50

Highest Band Edge / 1 RB



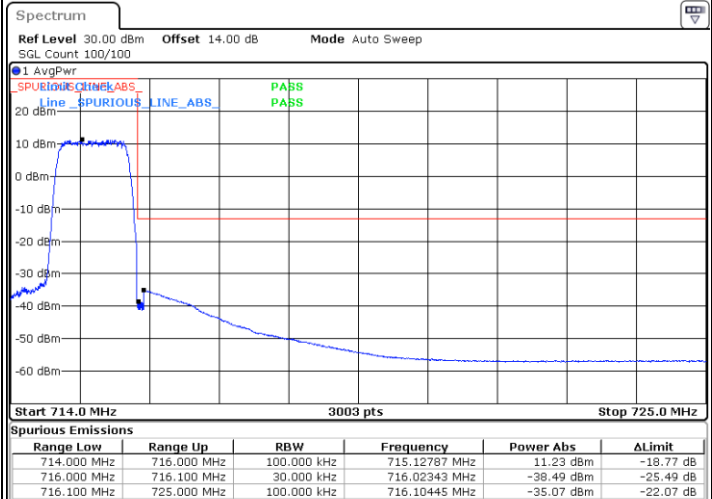
Date: 19 JUN 2023 03:46:37

Lowest Band Edge / Full RB



Date: 19 JUN 2023 03:37:11

Highest Band Edge / Full RB

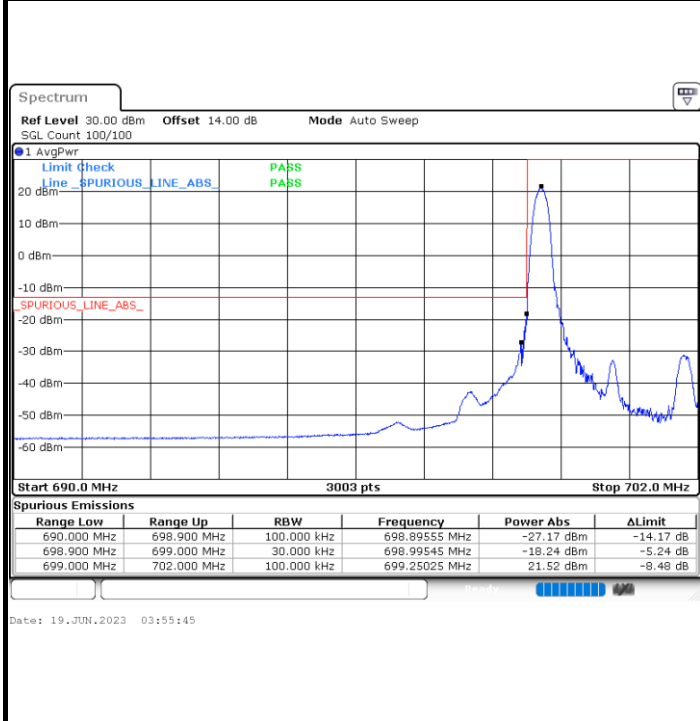


Date: 19 JUN 2023 03:43:43

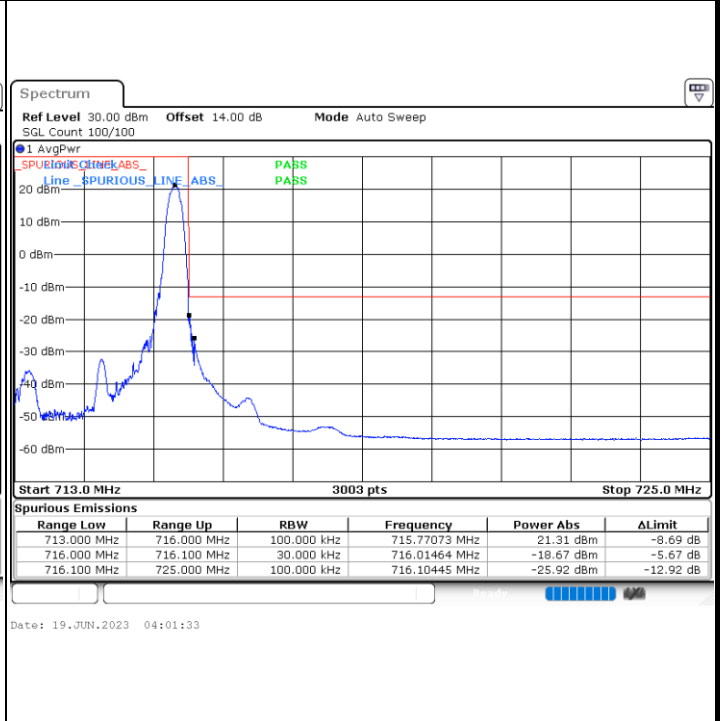


LTE Band 12 / 3MHz / QPSK

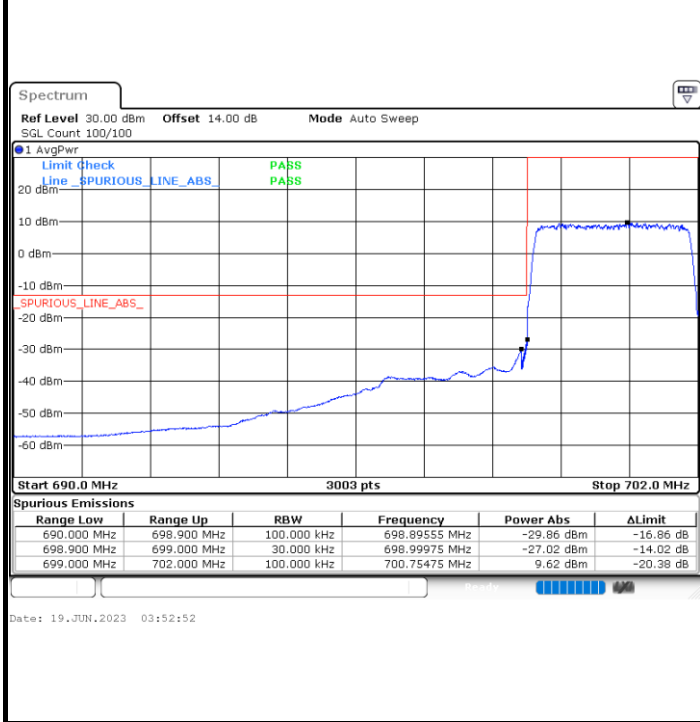
Lowest Band Edge / 1RB



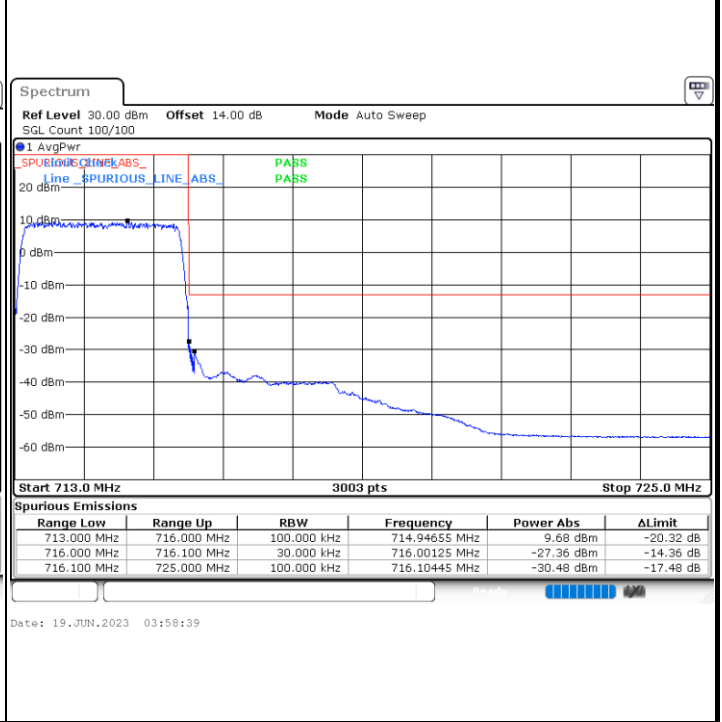
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



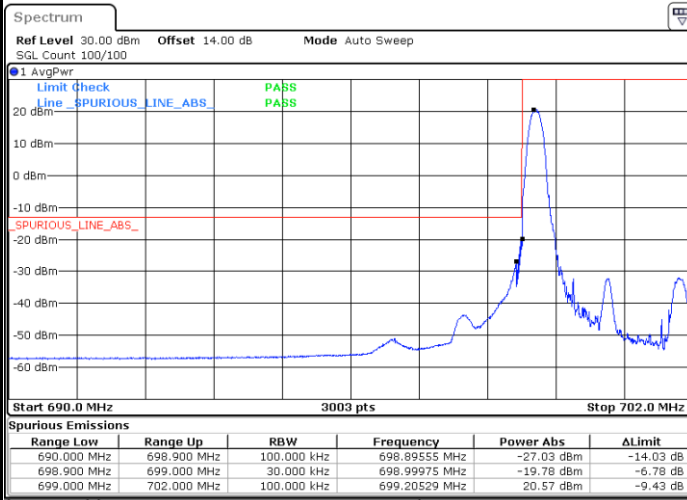
Highest Band Edge / Full RB





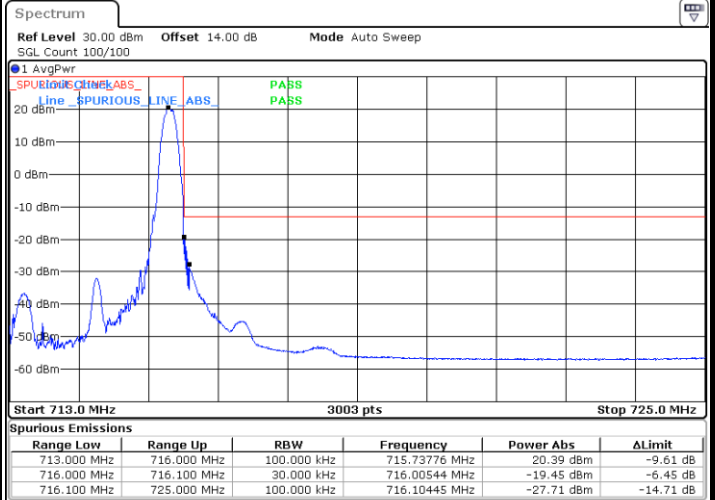
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



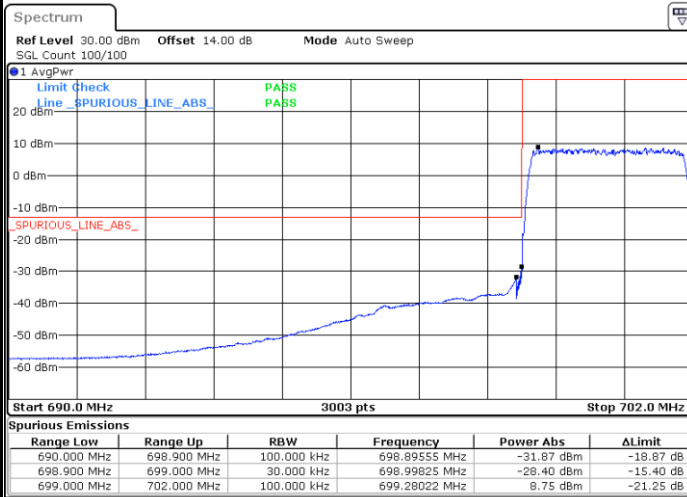
Date: 19 JUN 2023 03:56:43

Highest Band Edge / 1 RB



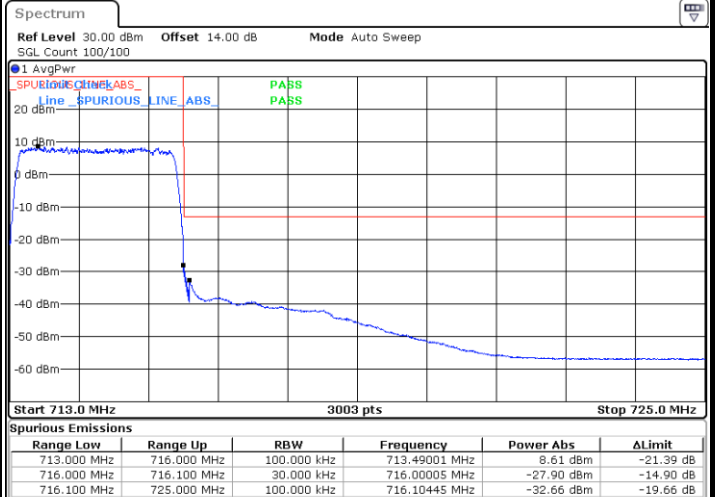
Date: 19 JUN 2023 04:02:31

Lowest Band Edge / Full RB



Date: 19 JUN 2023 03:53:50

Highest Band Edge / Full RB

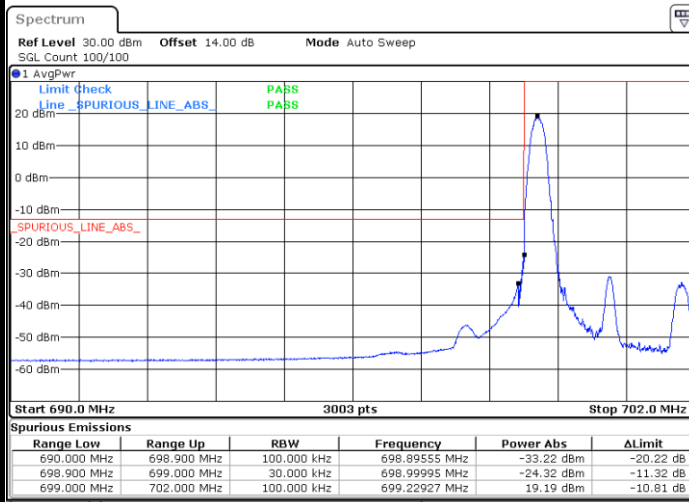


Date: 19 JUN 2023 03:59:37



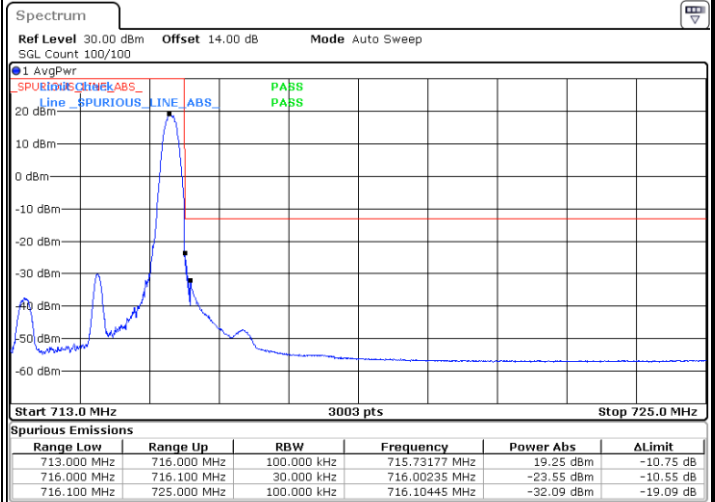
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



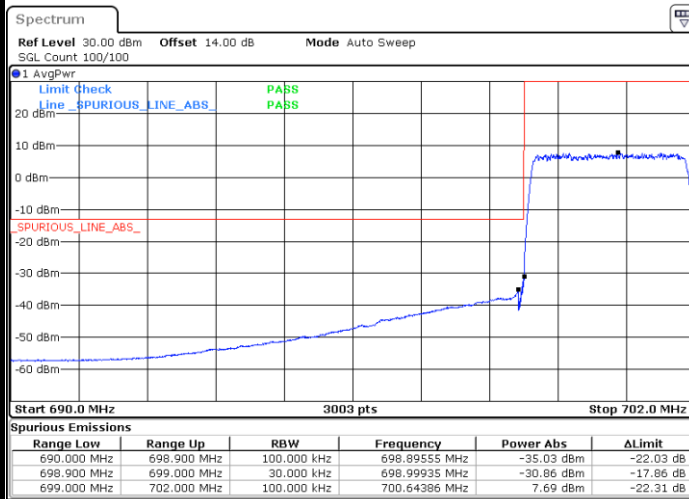
Date: 19 JUN.2023 03:57:41

Highest Band Edge / 1 RB



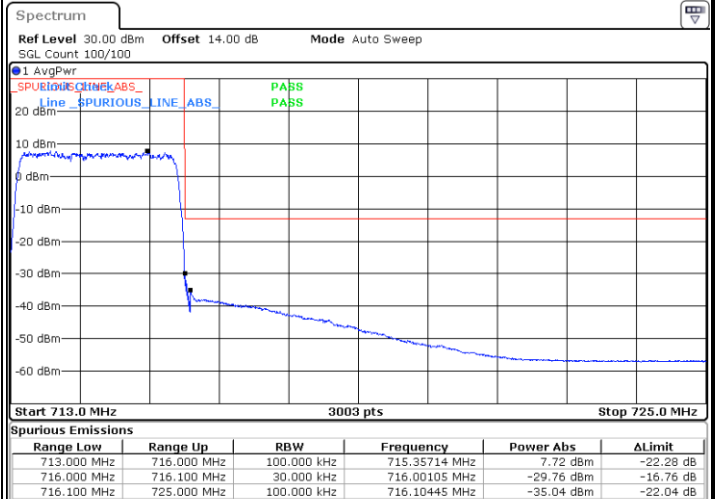
Date: 19 JUN.2023 04:03:29

Lowest Band Edge / Full RB



Date: 19 JUN.2023 03:54:48

Highest Band Edge / Full RB

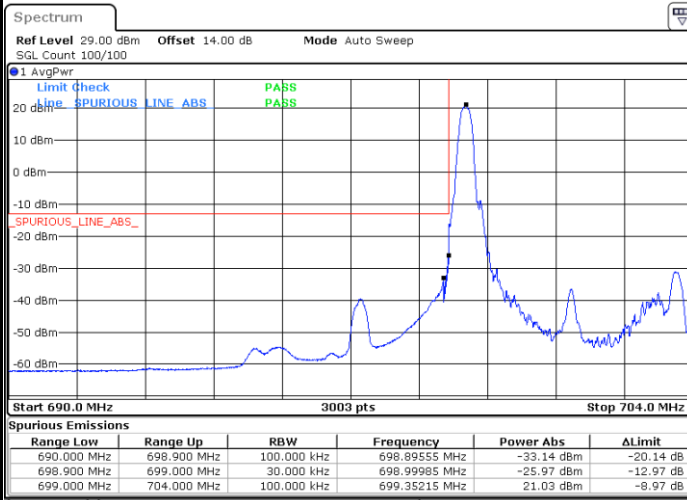


Date: 19 JUN.2023 04:00:35



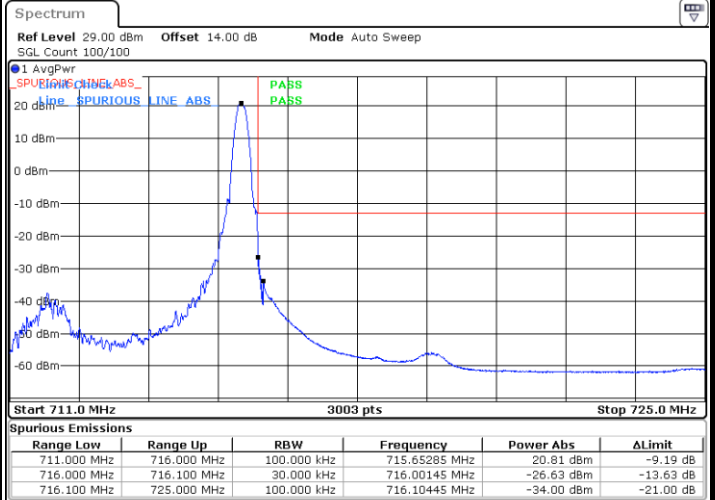
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



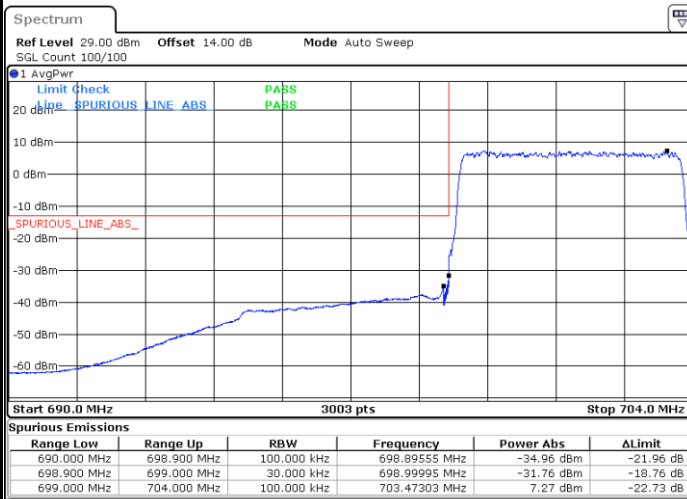
Date: 19 JUN.2023 04:12:00

Highest Band Edge / 1 RB



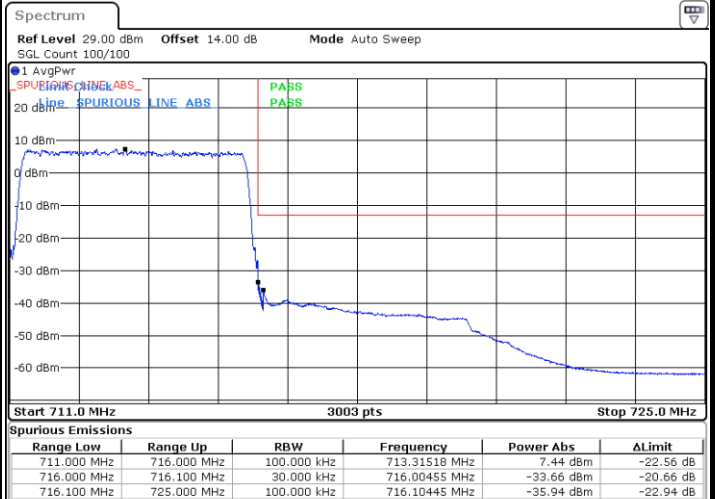
Date: 19 JUN.2023 04:17:48

Lowest Band Edge / Full RB



Date: 19 JUN.2023 04:09:06

Highest Band Edge / Full RB

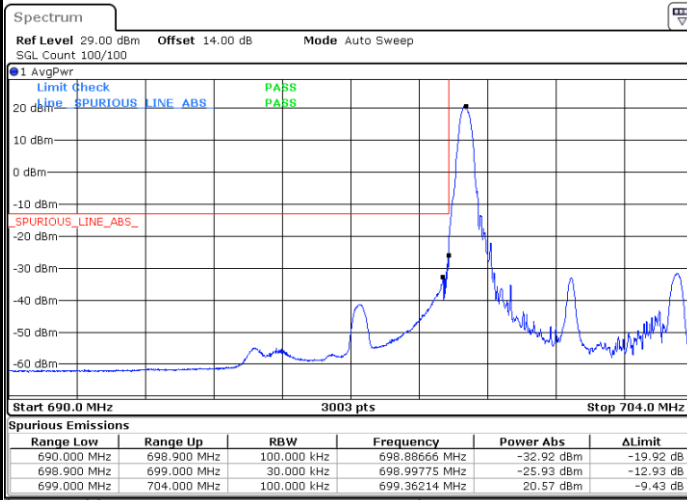


Date: 19 JUN.2023 04:14:54



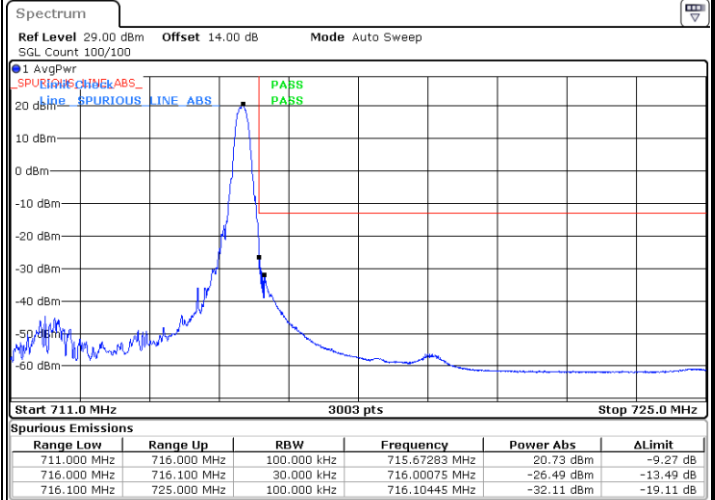
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



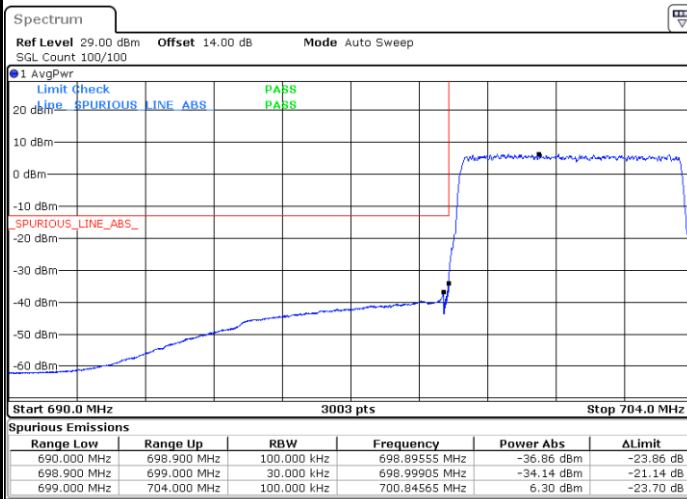
Date: 19 JUN.2023 04:12:58

Highest Band Edge / 1 RB



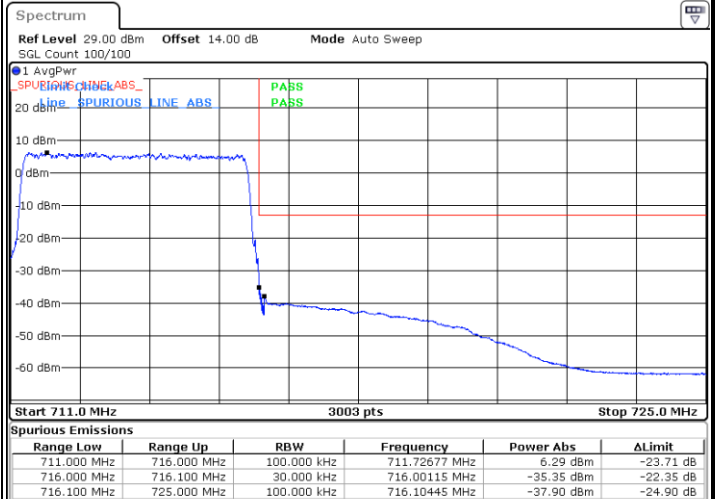
Date: 19 JUN.2023 04:18:45

Lowest Band Edge / Full RB



Date: 19 JUN.2023 04:10:04

Highest Band Edge / Full RB

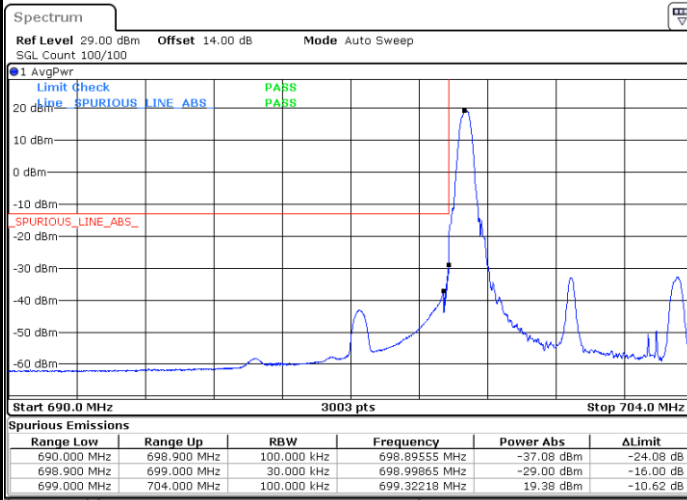


Date: 19 JUN.2023 04:15:52



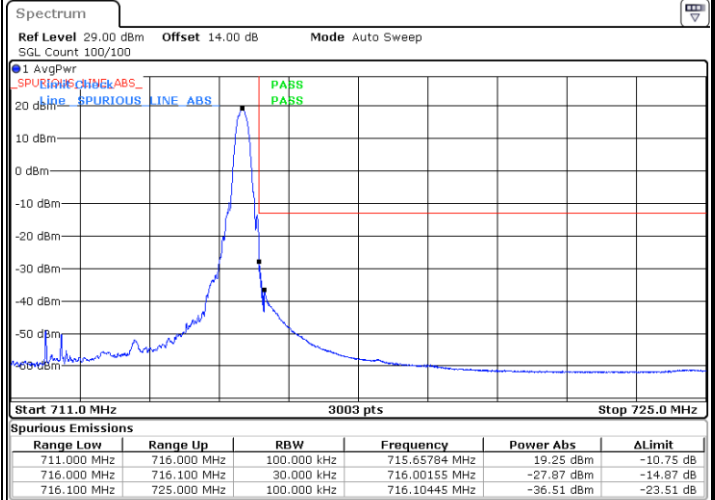
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



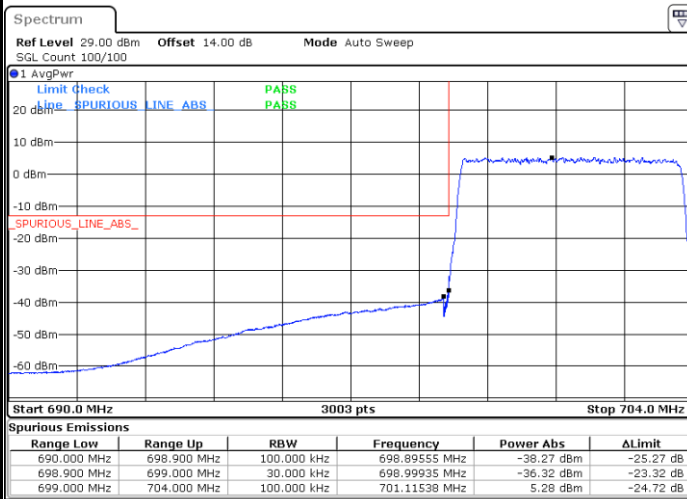
Date: 19 JUN 2023 04:13:55

Highest Band Edge / 1 RB



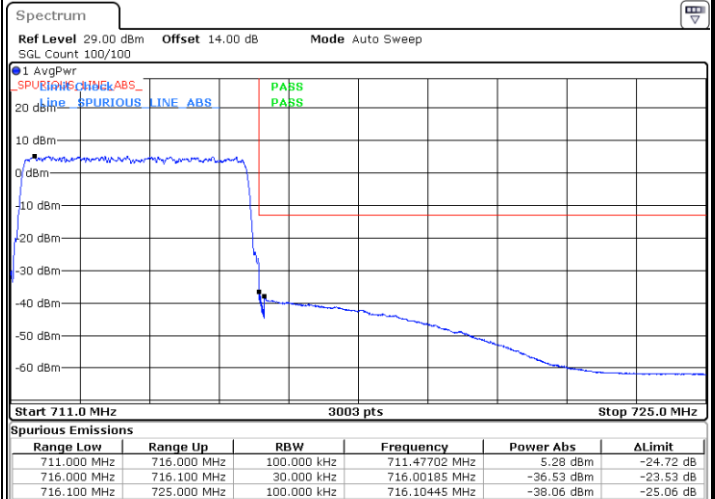
Date: 19 JUN 2023 04:19:43

Lowest Band Edge / Full RB



Date: 19 JUN 2023 04:11:02

Highest Band Edge / Full RB

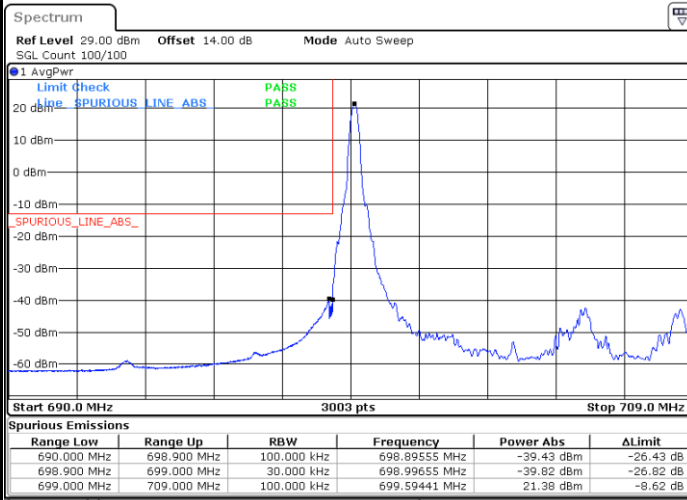


Date: 19 JUN 2023 04:16:49



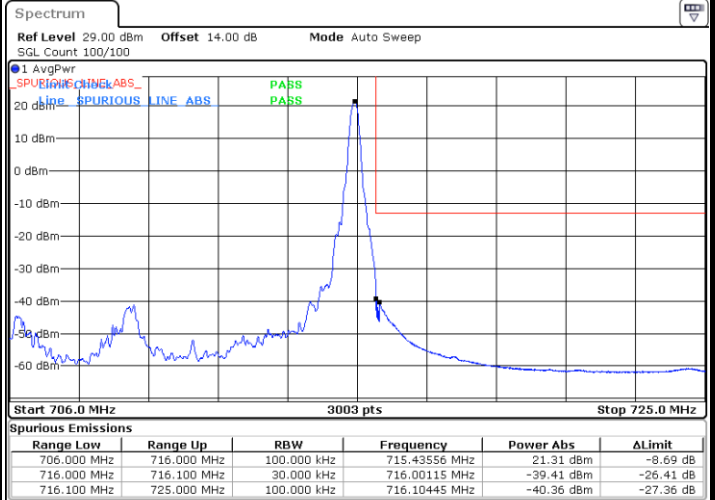
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



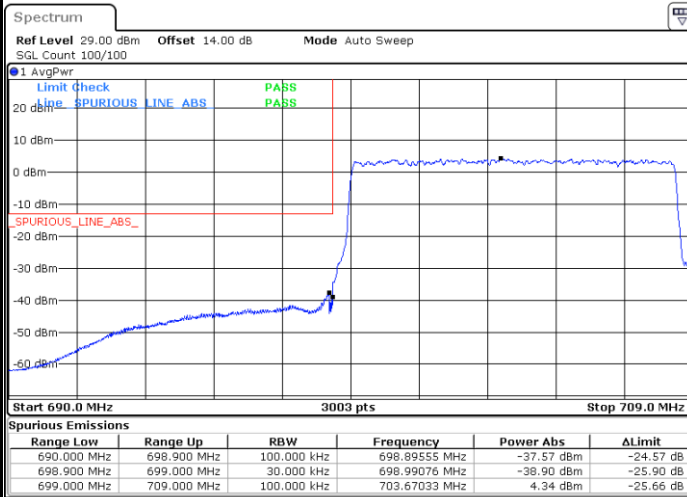
Date: 19 JUN 2023 04:28:14

Highest Band Edge / 1 RB



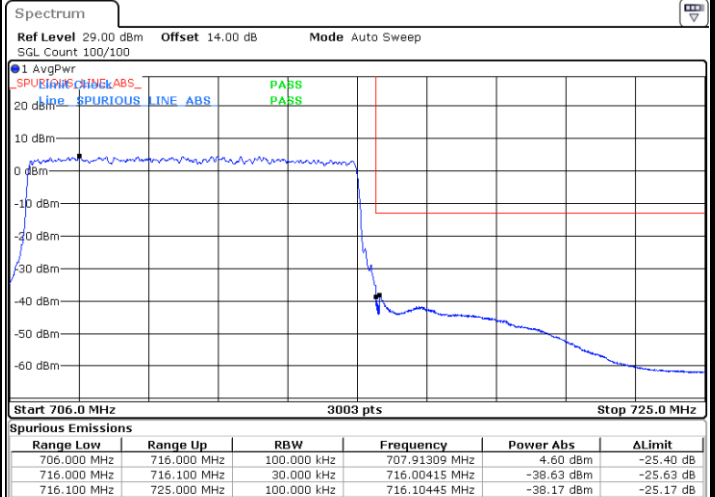
Date: 19 JUN 2023 05:01:52

Lowest Band Edge / Full RB



Date: 19 JUN 2023 04:25:20

Highest Band Edge / Full RB

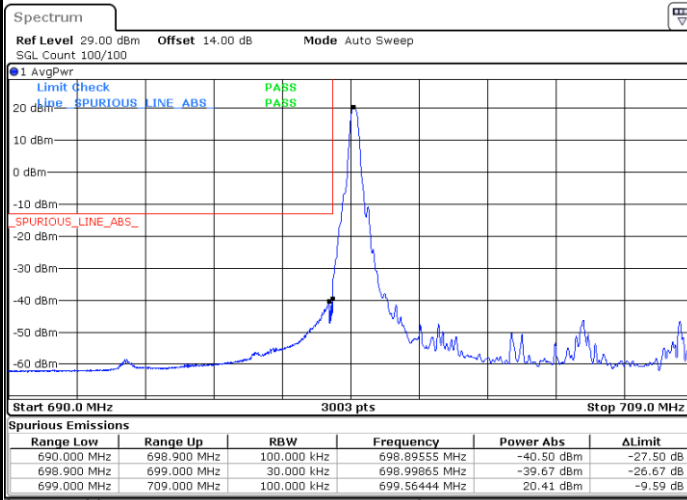


Date: 19 JUN 2023 04:31:08



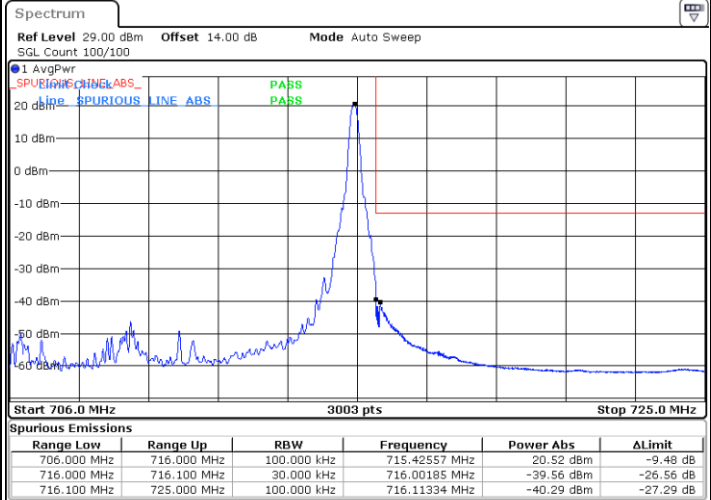
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



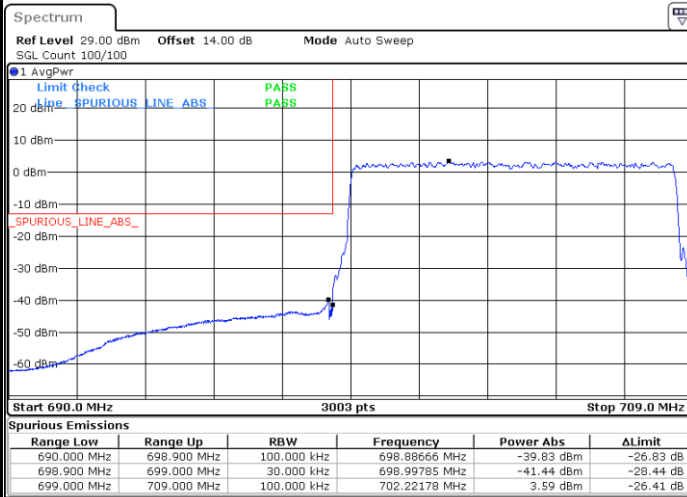
Date: 19 JUN 2023 04:29:12

Highest Band Edge / 1 RB



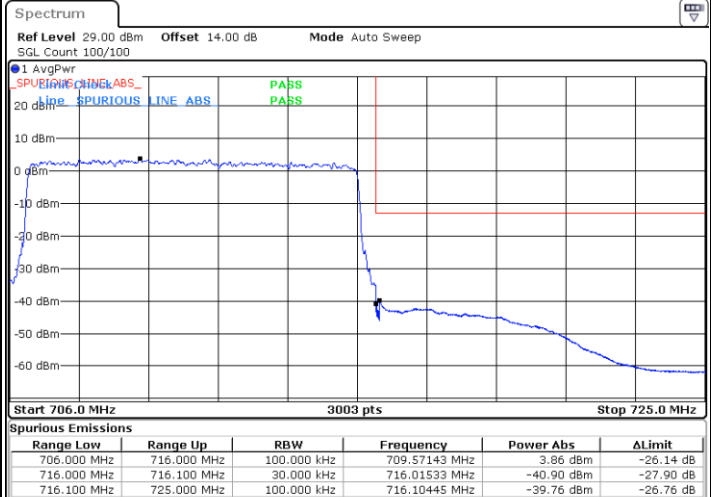
Date: 19 JUN 2023 05:02:50

Lowest Band Edge / Full RB



Date: 19 JUN 2023 04:26:18

Highest Band Edge / Full RB

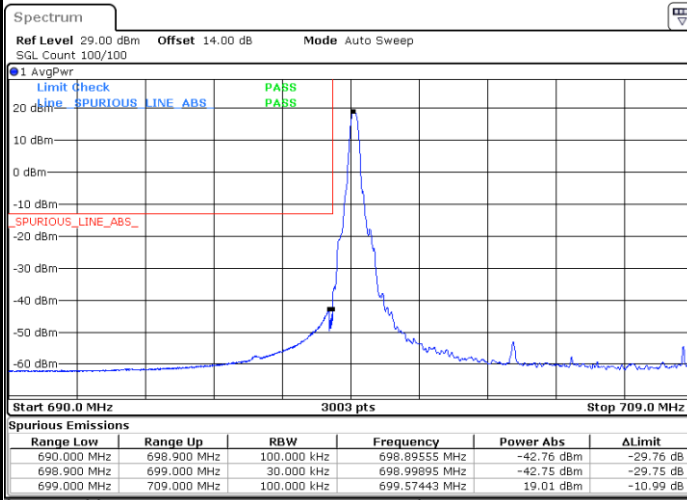


Date: 19 JUN 2023 04:32:05



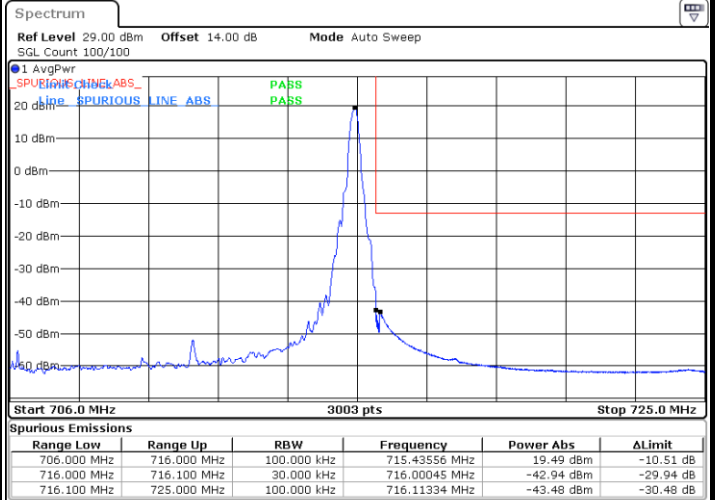
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



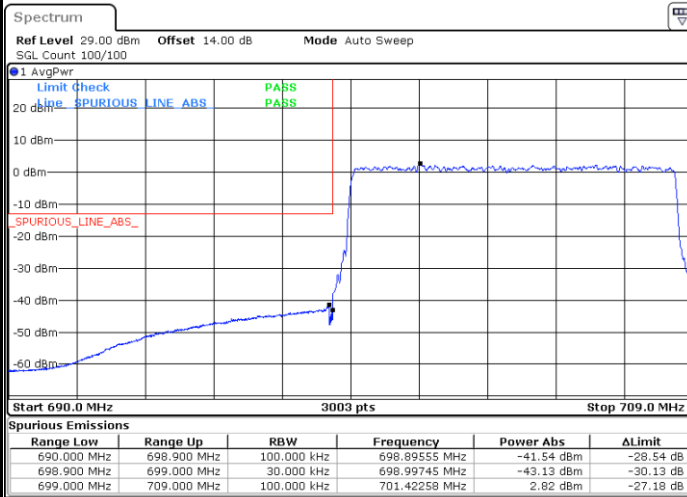
Date: 19 JUN 2023 04:30:09

Highest Band Edge / 1 RB



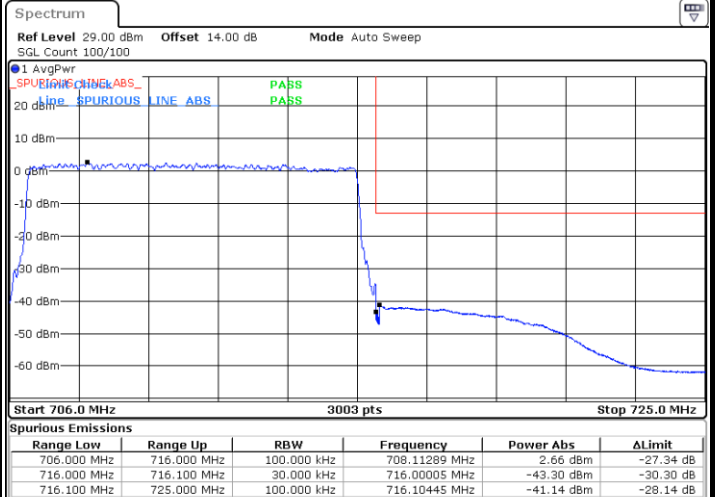
Date: 19 JUN 2023 05:03:47

Lowest Band Edge / Full RB



Date: 19 JUN 2023 04:27:16

Highest Band Edge / Full RB



Date: 19 JUN 2023 05:00:54

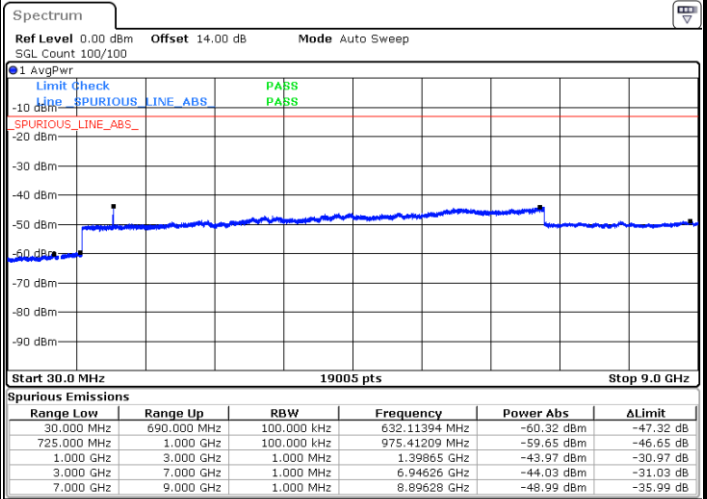
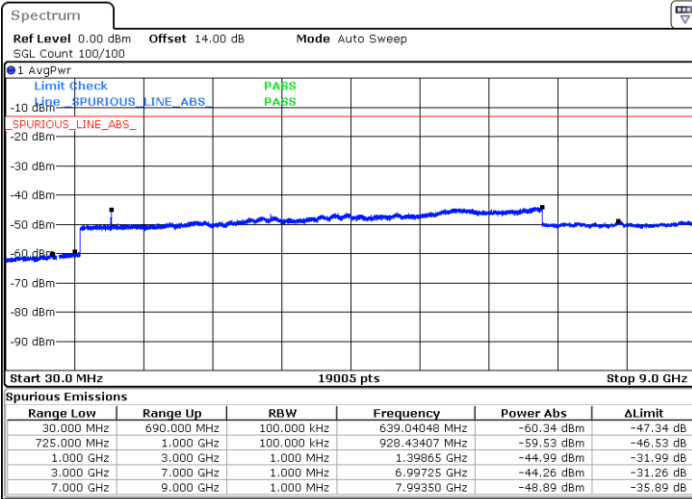


Conducted Spurious Emission

LTE Band 12

Lowest Channel / QPSK_1.4MHz

Lowest Channel / QPSK_3MHz

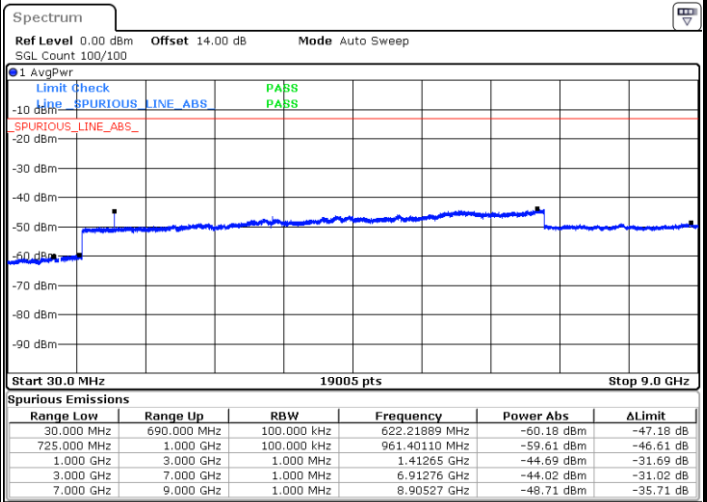
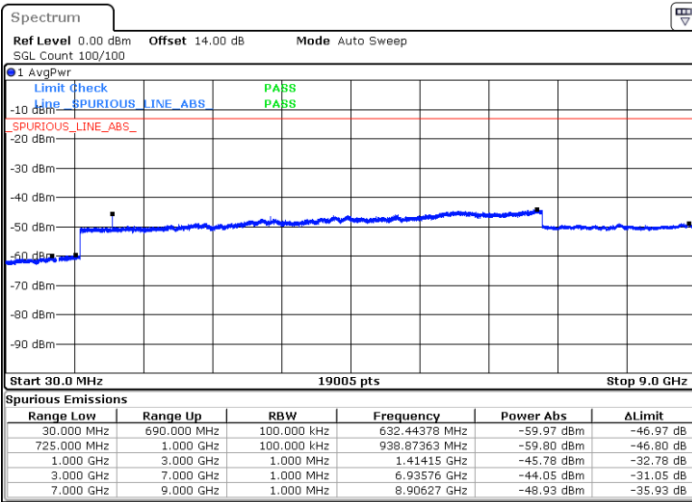


Date: 19 JUN.2023 03:48:10

Date: 19 JUN.2023 04:05:02

Middle Channel / QPSK_1.4MHz

Middle Channel / QPSK_3MHz



Date: 19 JUN.2023 03:50:22

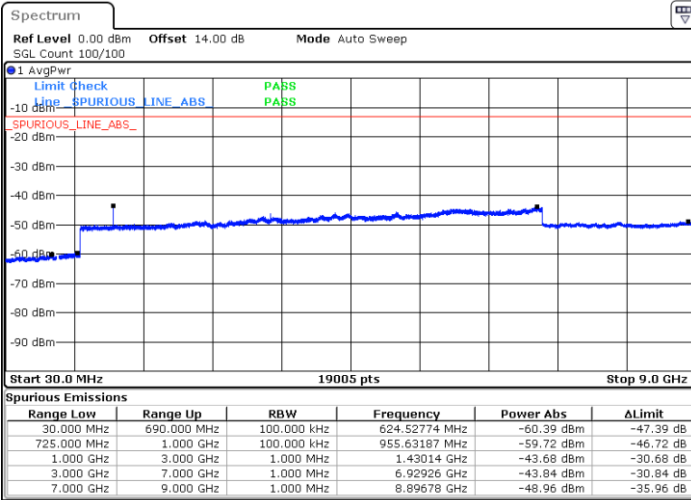
Date: 19 JUN.2023 04:06:35



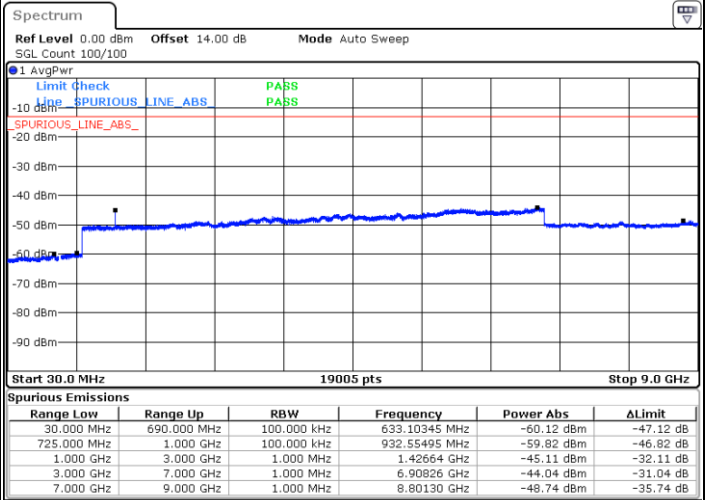
LTE Band 12

Highest Channel / QPSK_1.4MHz

Highest Channel / QPSK_3MHz



Date: 19 JUN.2023 03:51:54



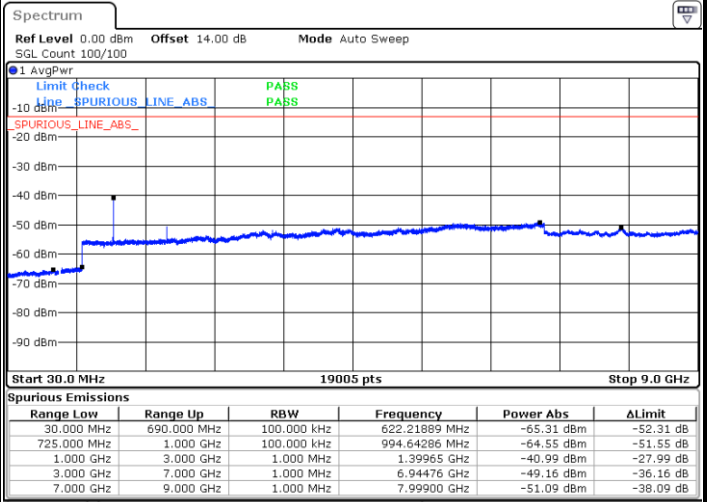
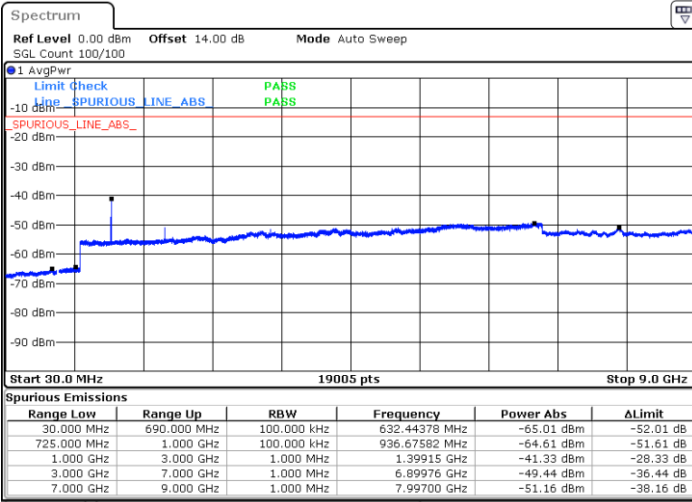
Date: 19 JUN.2023 04:08:07



LTE Band 12

Lowest Channel / QPSK_5MHz

Lowest Channel / QPSK_10MHz

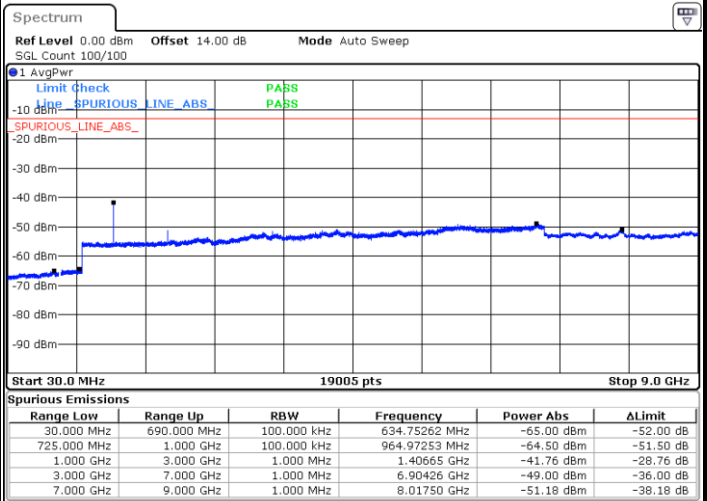
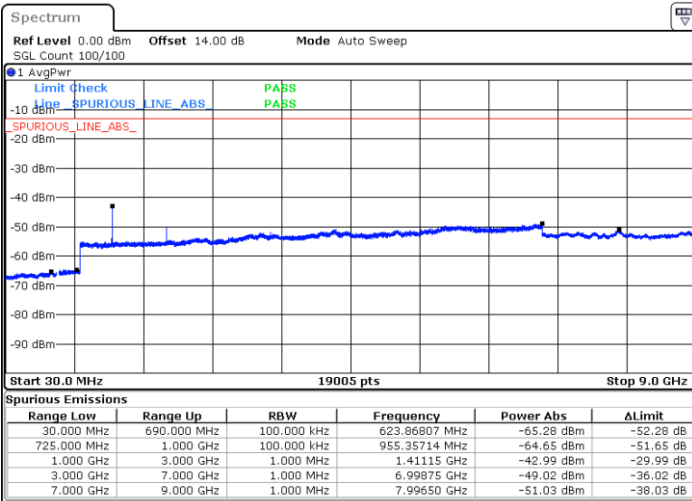


Date: 19 JUN.2023 04:21:16

Date: 19 JUN.2023 05:05:21

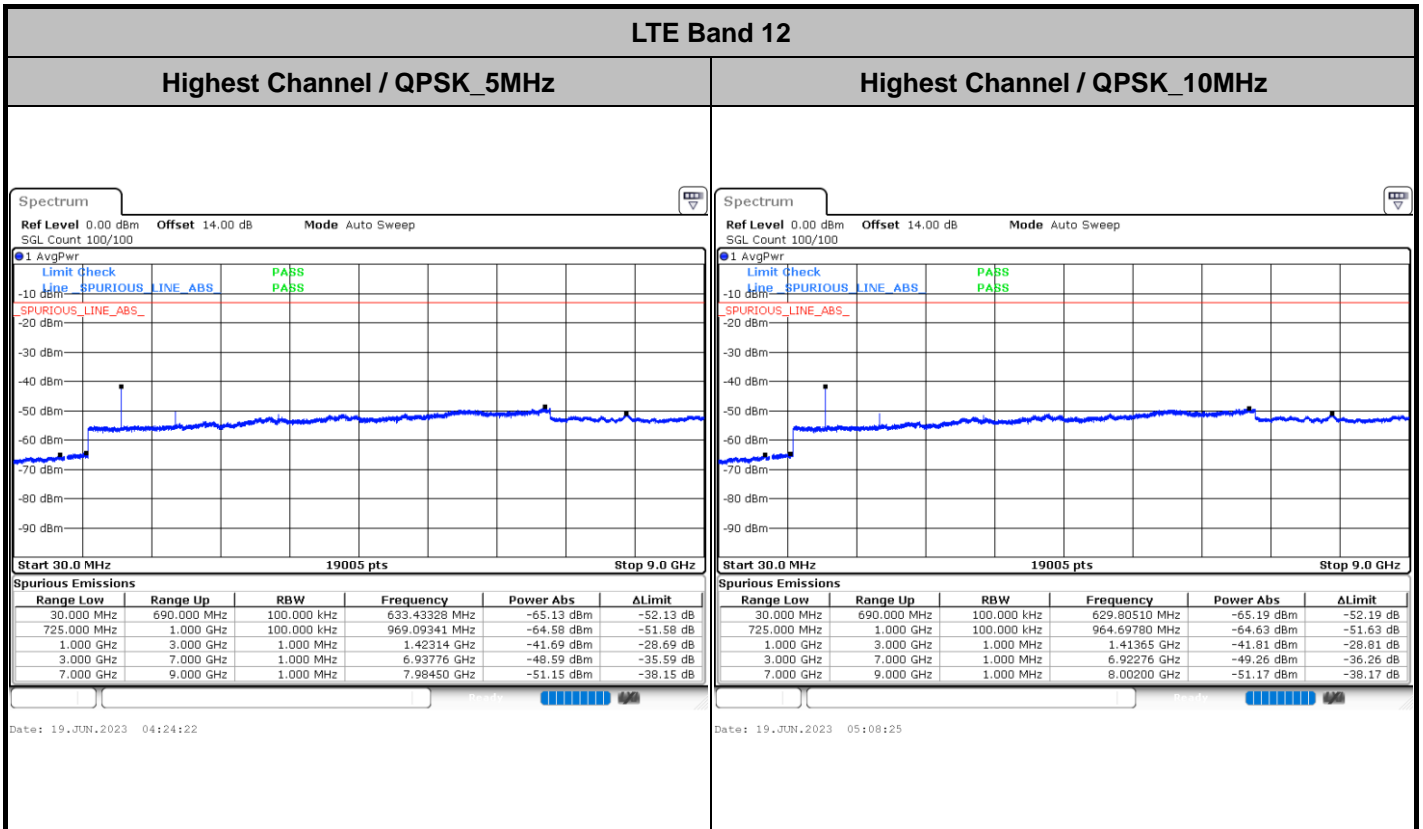
Middle Channel / QPSK_5MHz

Middle Channel / QPSK_10MHz



Date: 19 JUN.2023 04:22:49

Date: 19 JUN.2023 05:06:53





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	0.0010	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

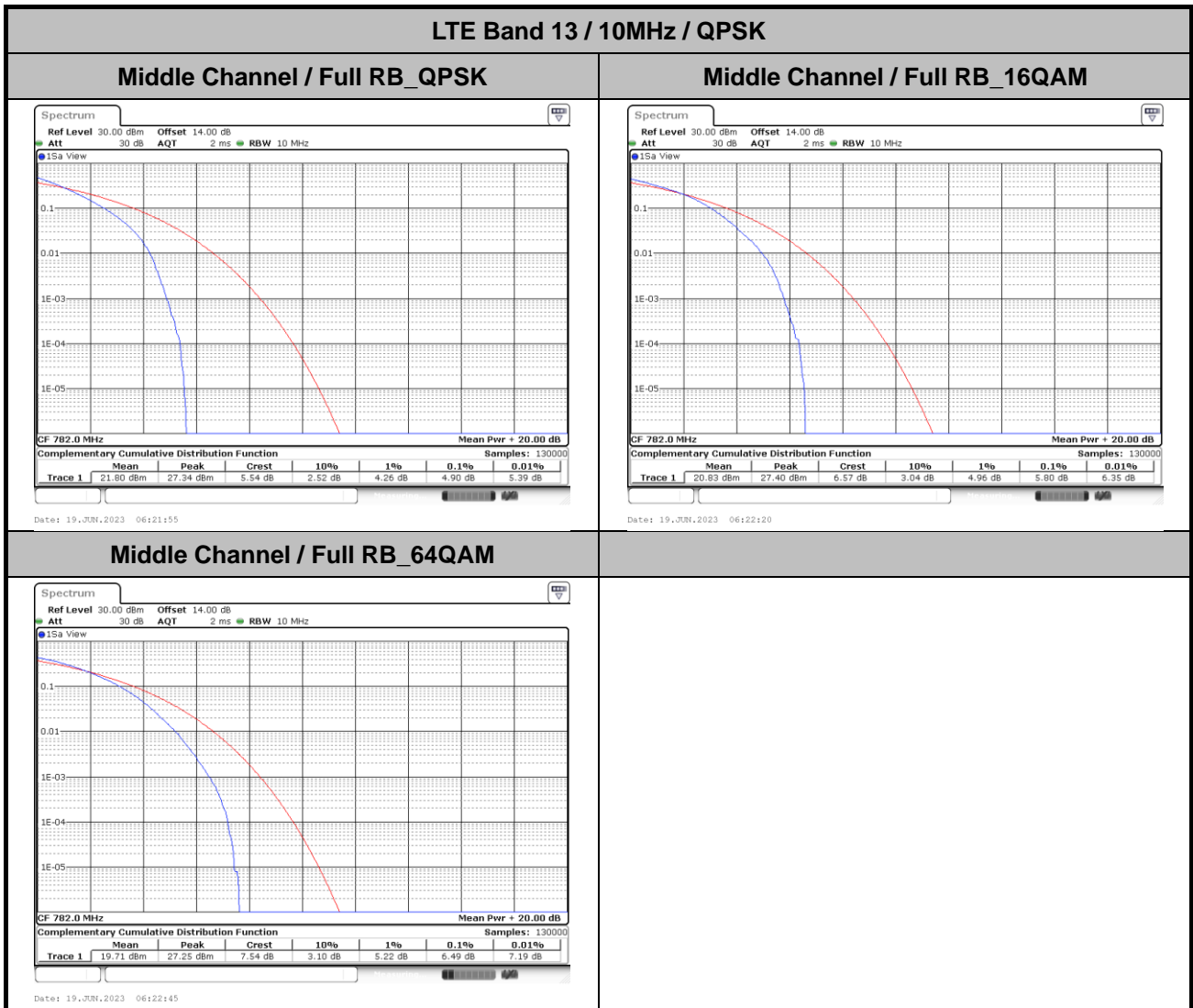
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.50 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

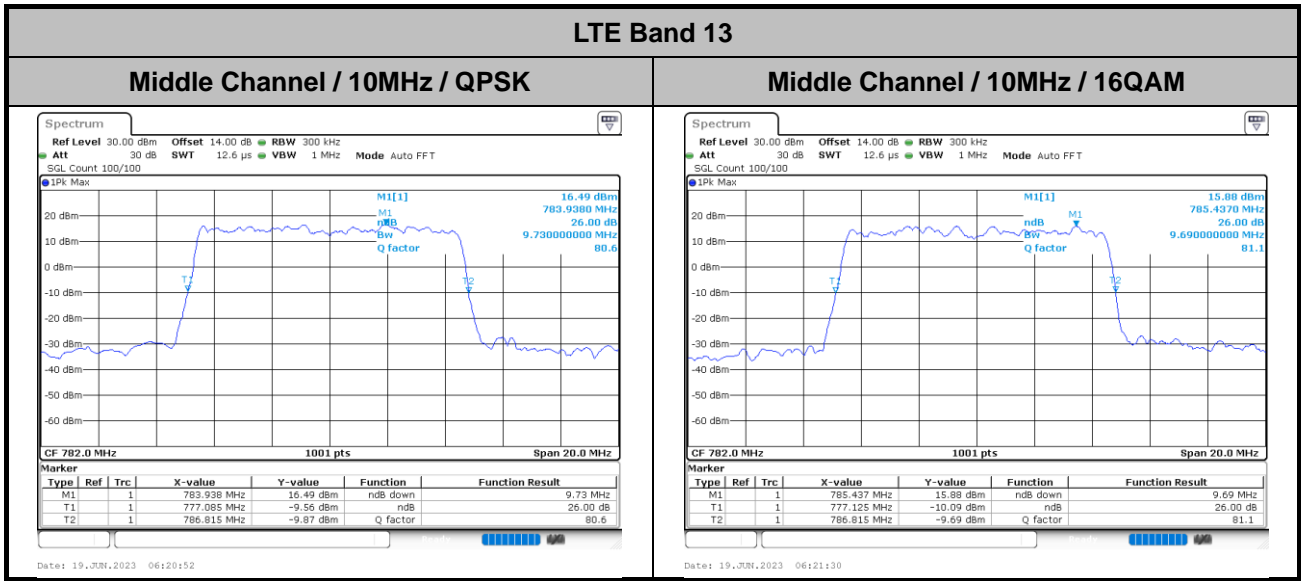
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.80	6.49	PASS





26dB Bandwidth

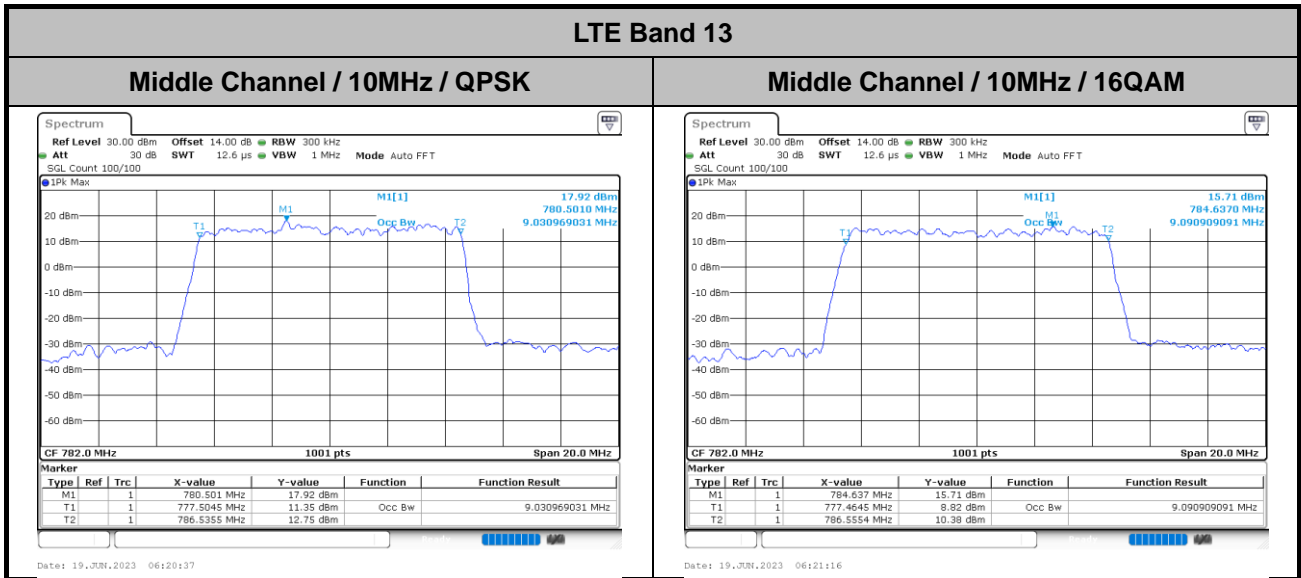
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.73	9.69





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.09



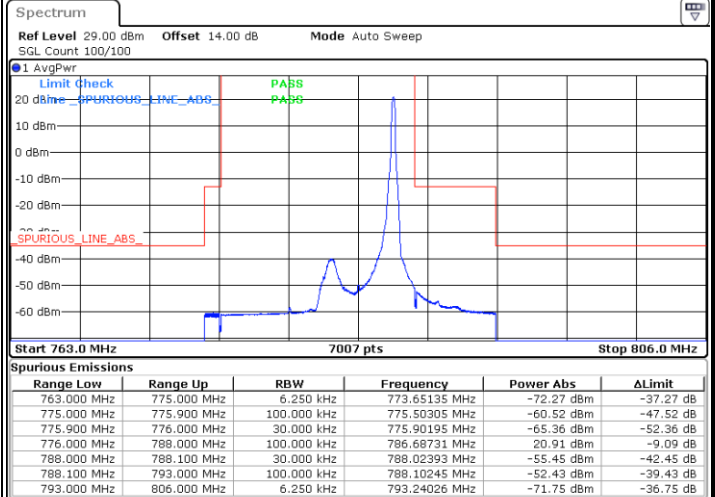
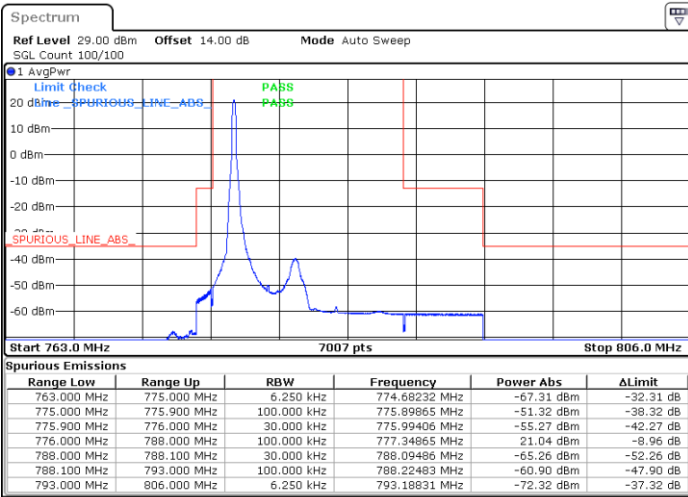


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

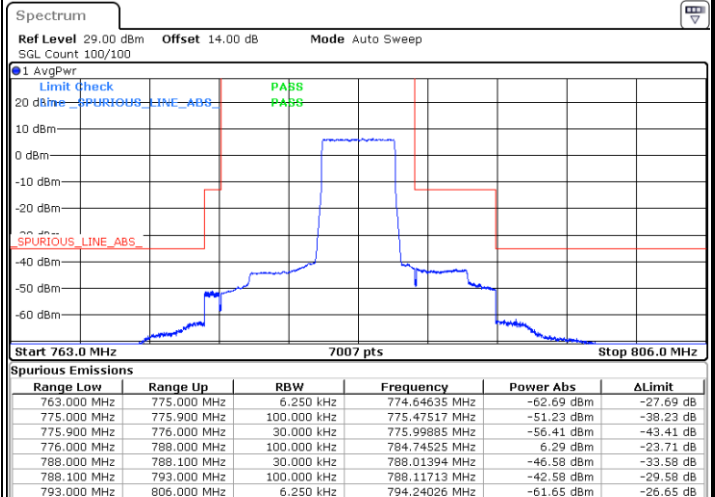
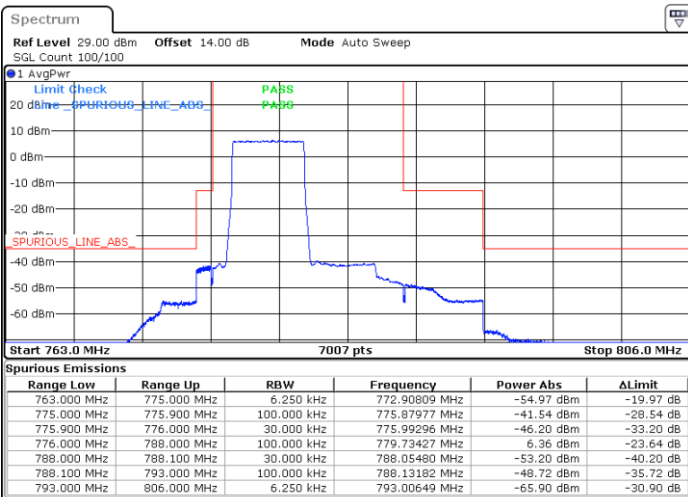


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Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 JUN 2023 05:36:27

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