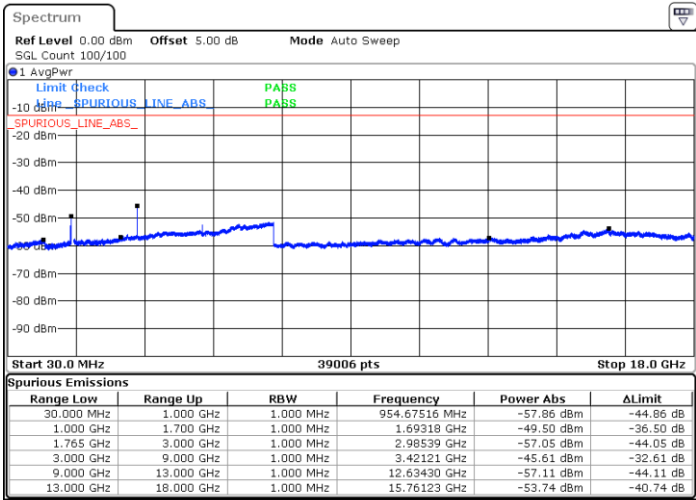




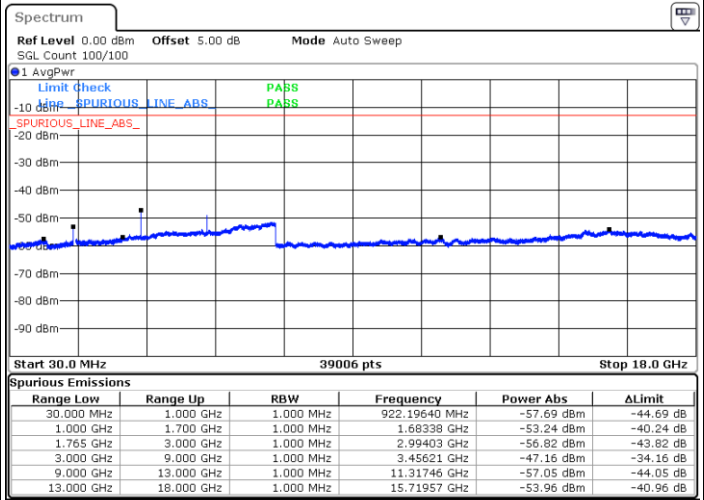
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

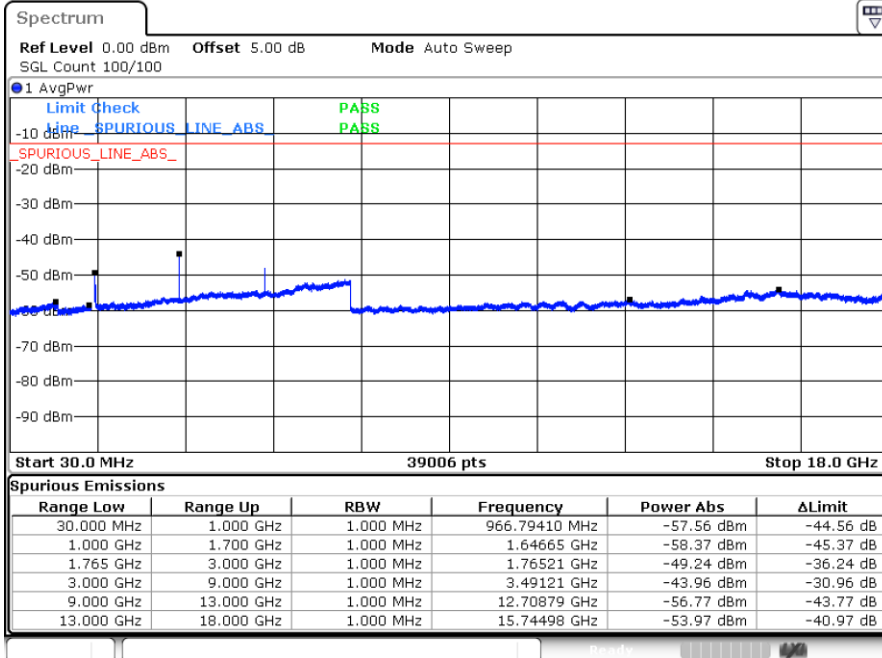


Date: 29.NOV.2021 22:38:26



Date: 29.NOV.2021 22:48:26

Highest Channel / QPSK



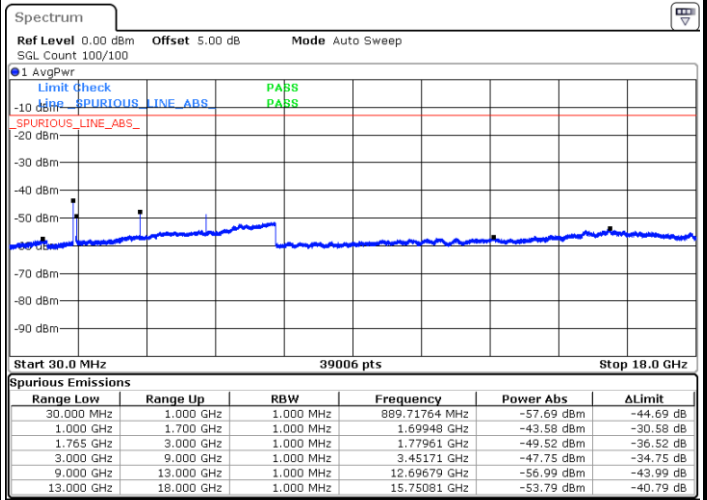
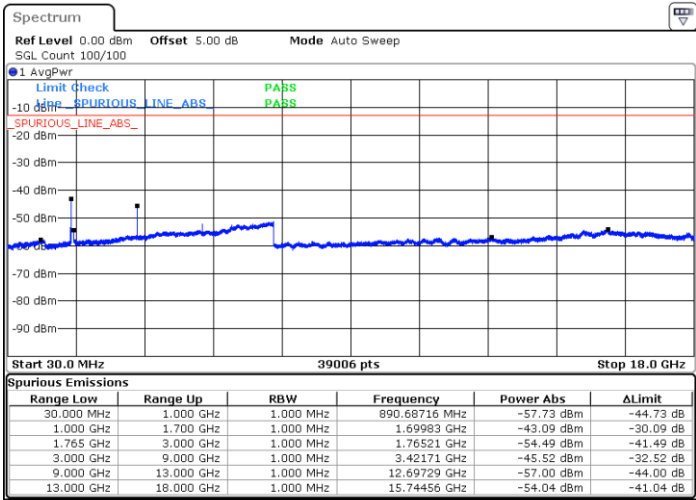
Date: 29.NOV.2021 22:50:20



LTE Band 4 / 15MHz

Lowest Channel / QPSK

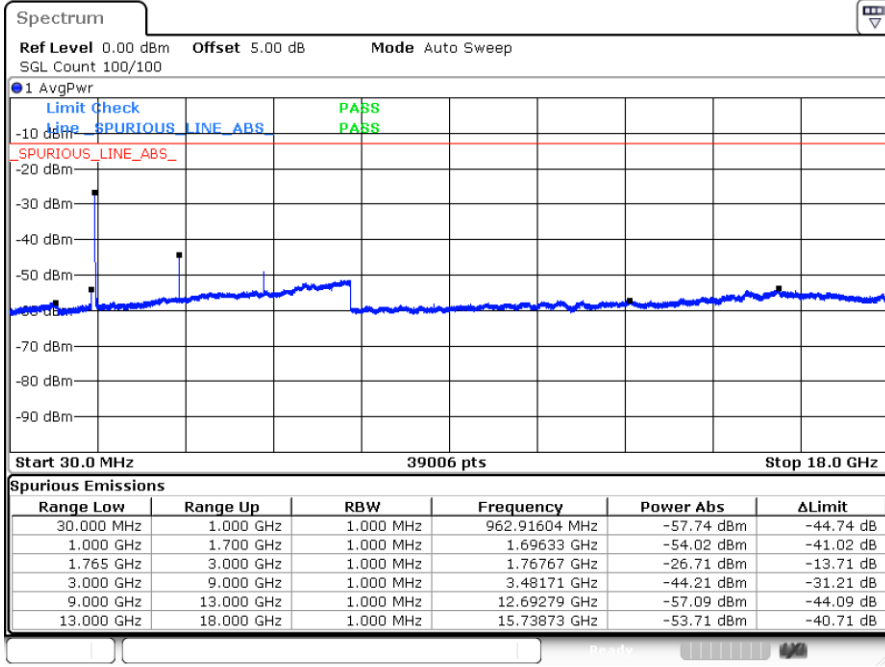
Middle Channel / QPSK



Date: 29.NOV.2021 23:04:50

Date: 29.NOV.2021 23:14:53

Highest Channel / QPSK



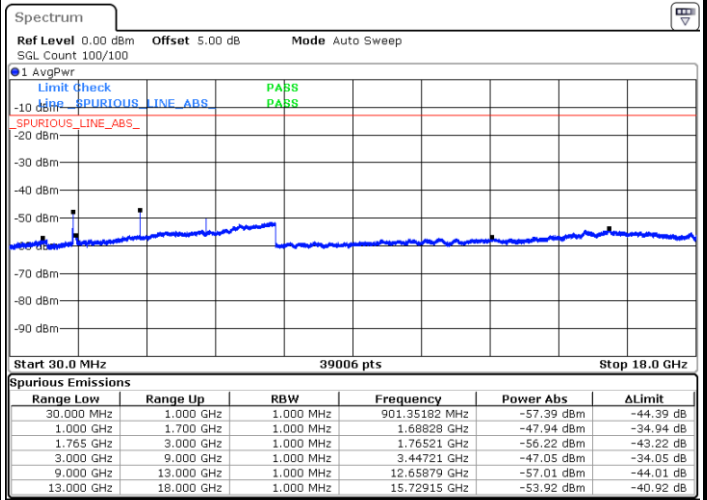
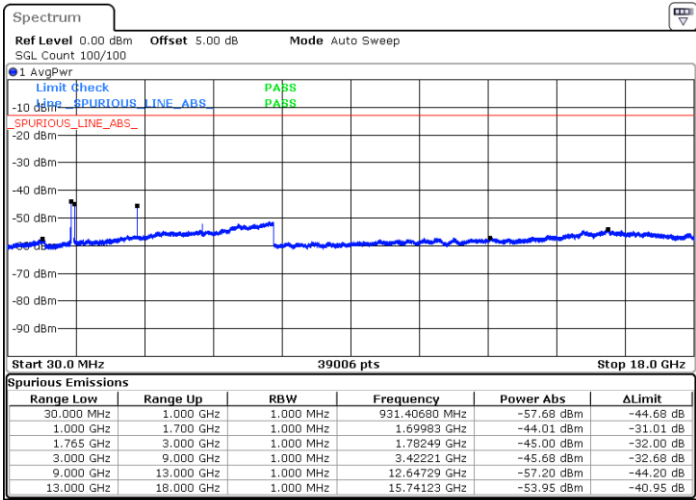
Date: 29.NOV.2021 23:16:47



LTE Band 4 / 20MHz

Lowest Channel / QPSK

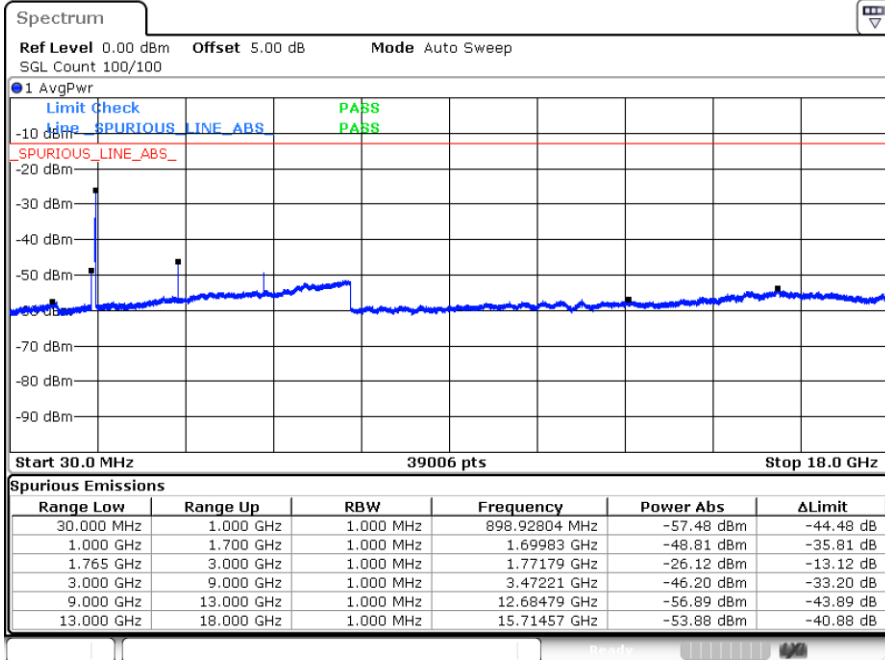
Middle Channel / QPSK



Date: 29.NOV.2021 22:12:47

Date: 29.NOV.2021 22:22:47

Highest Channel / QPSK



Date: 29.NOV.2021 22:24:41



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

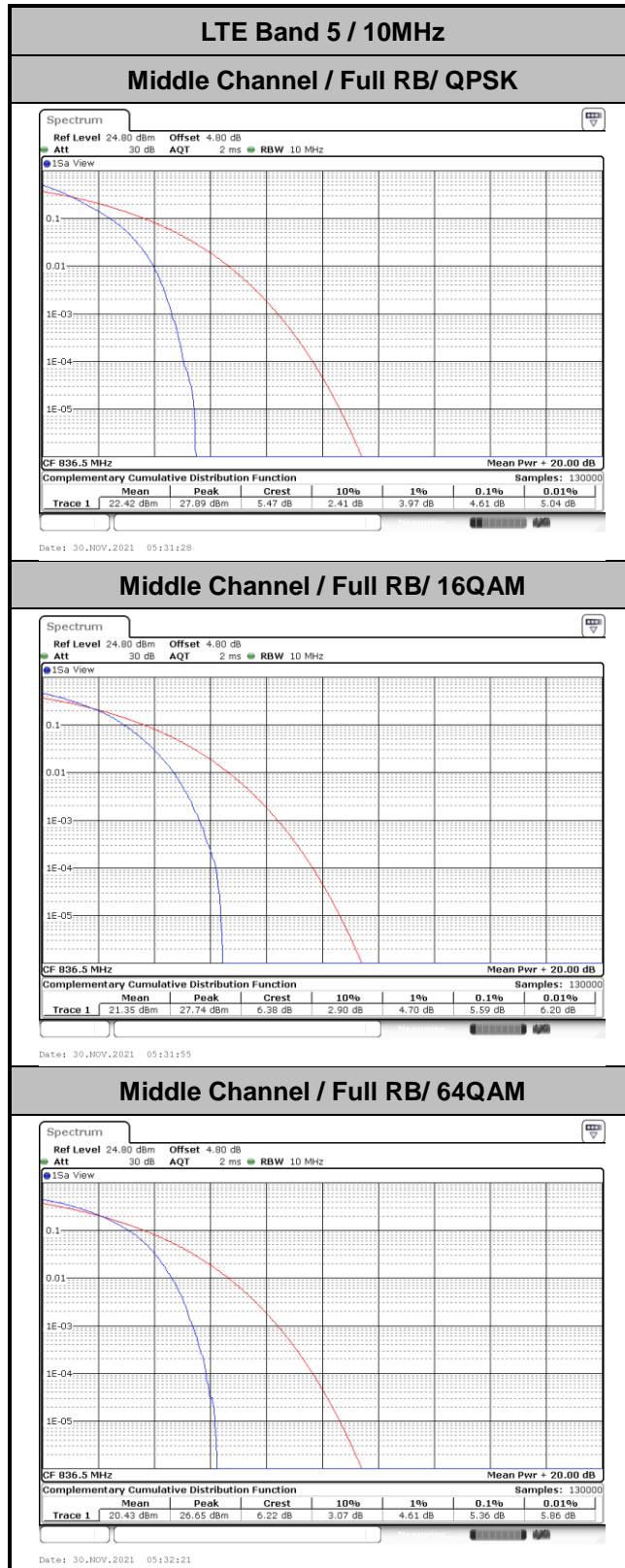
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

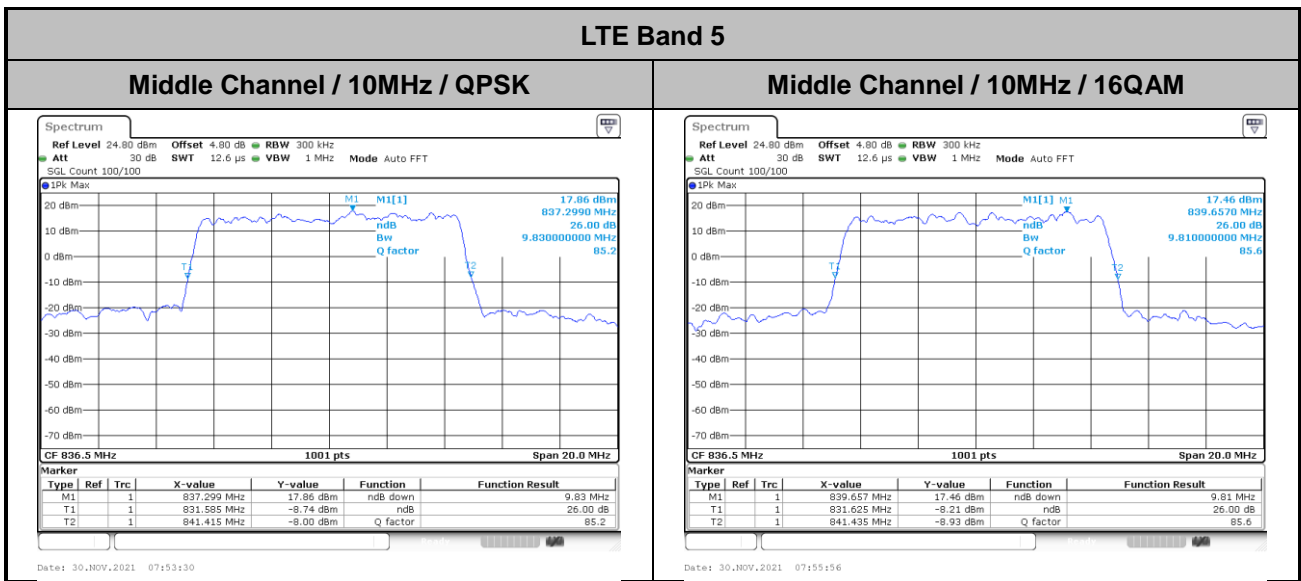
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.59	5.36	PASS





26dB Bandwidth

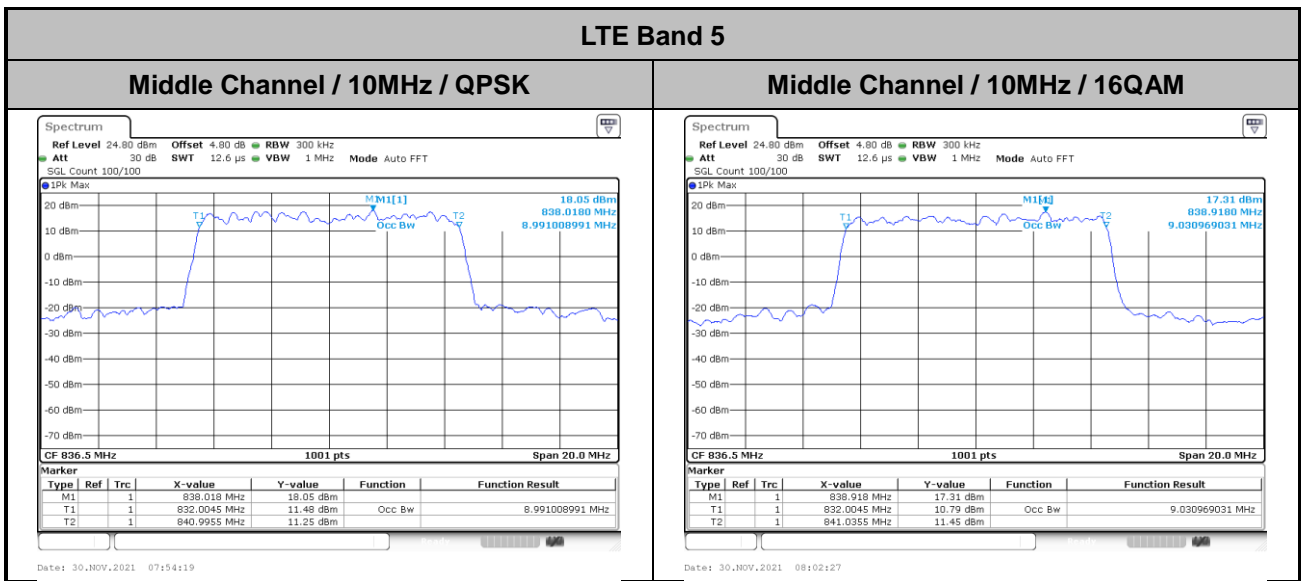
Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.81





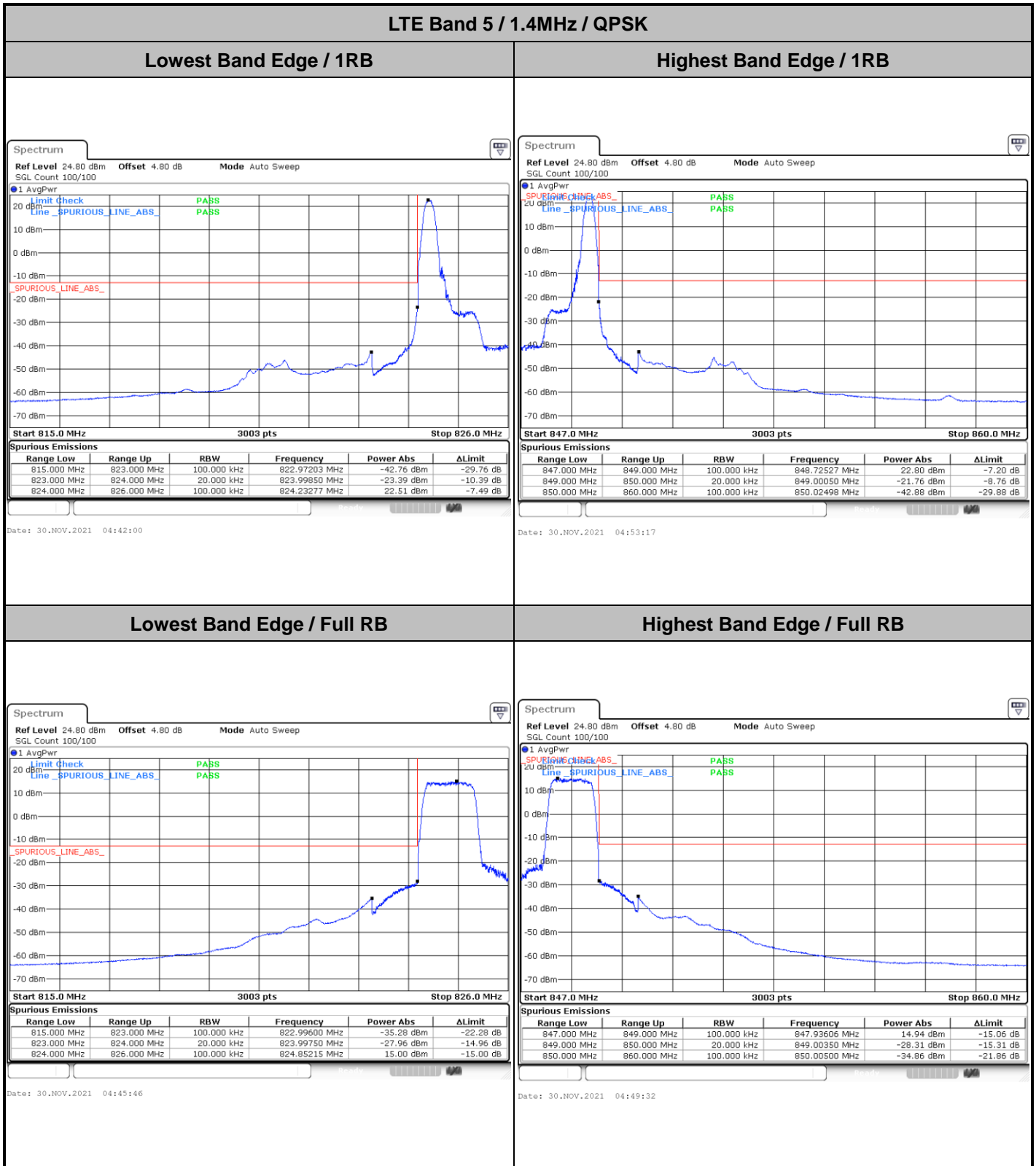
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.03





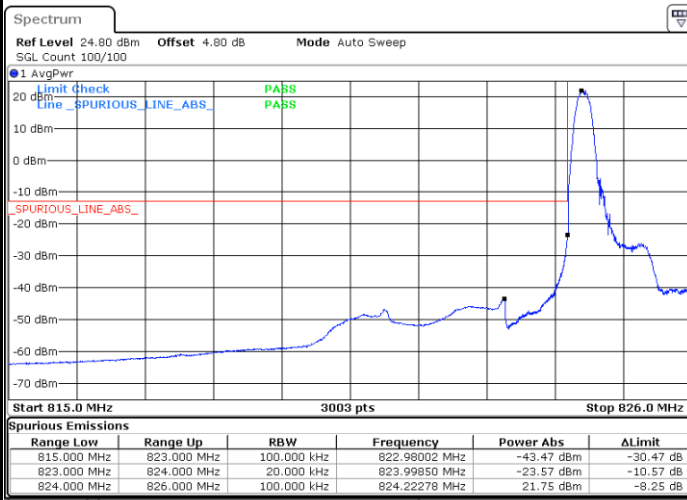
Conducted Band Edge





LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



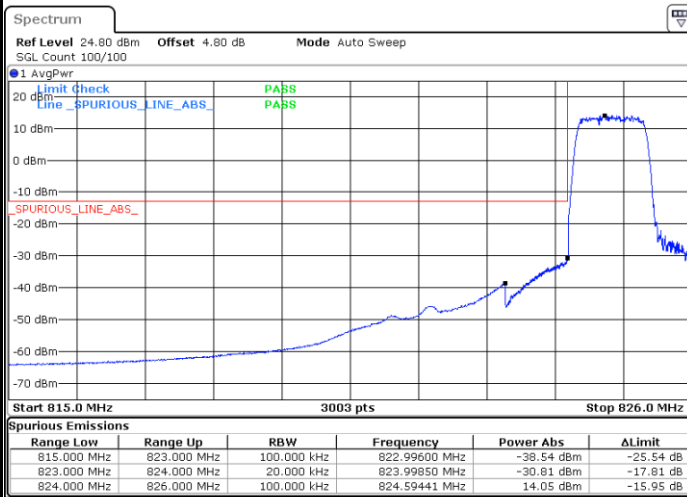
Date: 30.NOV.2021 04:43:53

Highest Band Edge / 1 RB



Date: 30.NOV.2021 04:55:10

Lowest Band Edge / Full RB



Date: 30.NOV.2021 04:47:39

Highest Band Edge / Full RB

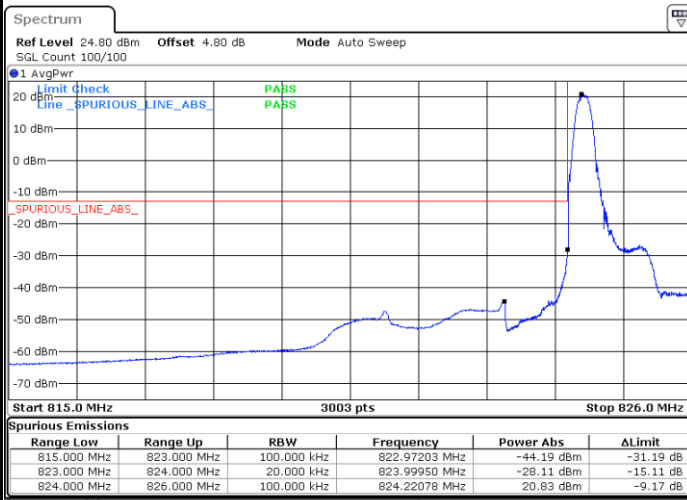


Date: 30.NOV.2021 04:51:24



LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



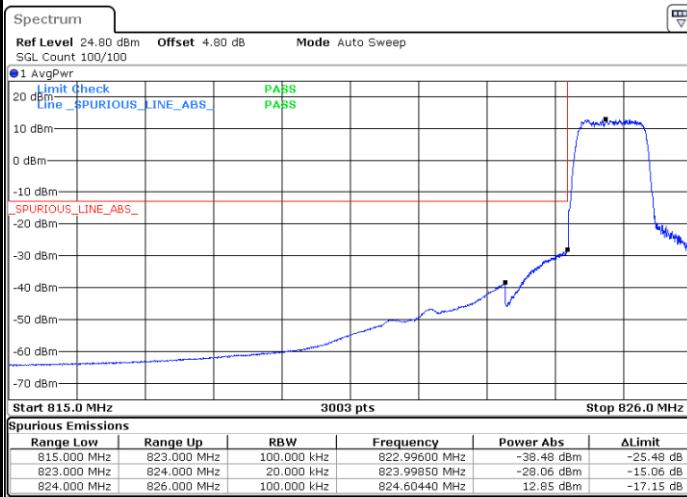
Date: 30.NOV.2021 05:02:46

Highest Band Edge / 1 RB



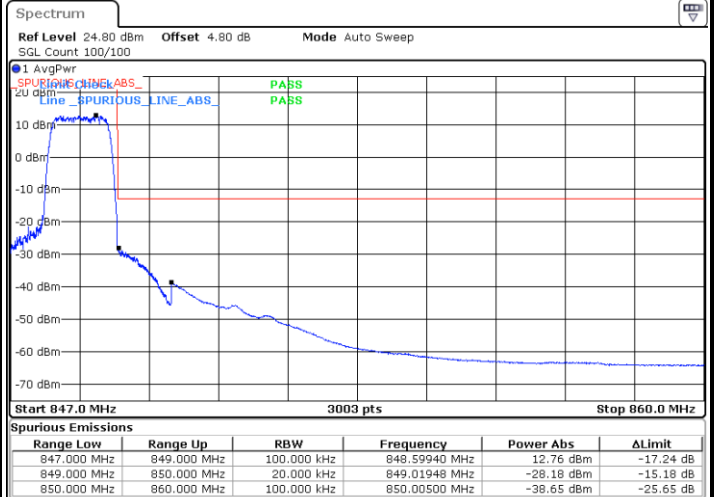
Date: 30.NOV.2021 05:08:24

Lowest Band Edge / Full RB



Date: 30.NOV.2021 05:04:39

Highest Band Edge / Full RB

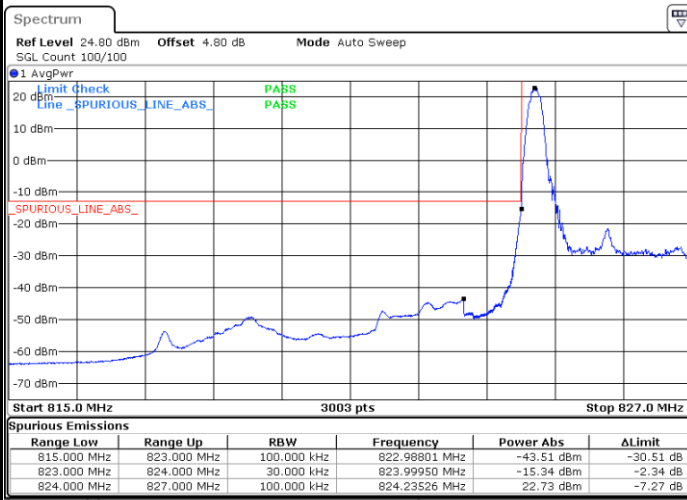


Date: 30.NOV.2021 05:06:31



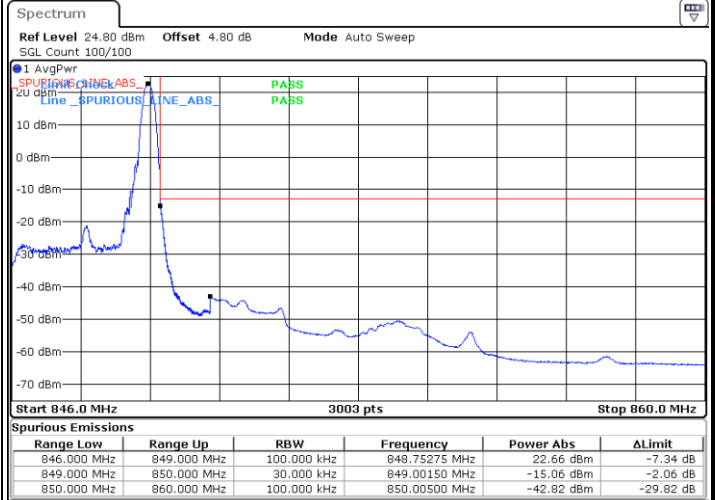
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



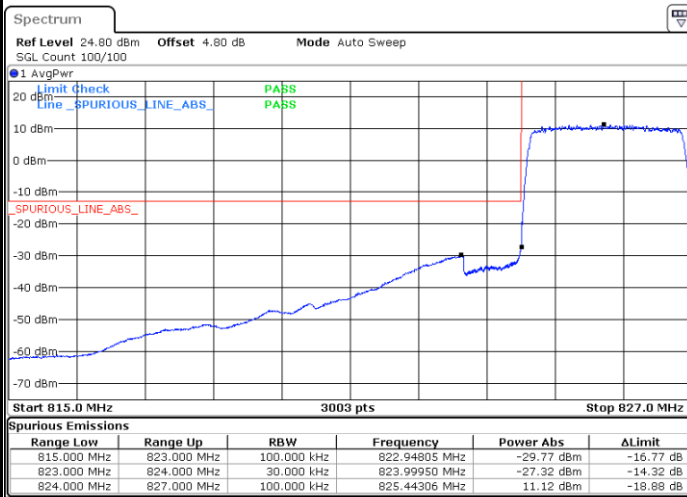
Date: 30.NOV.2021 03:37:51

Highest Band Edge / 1 RB



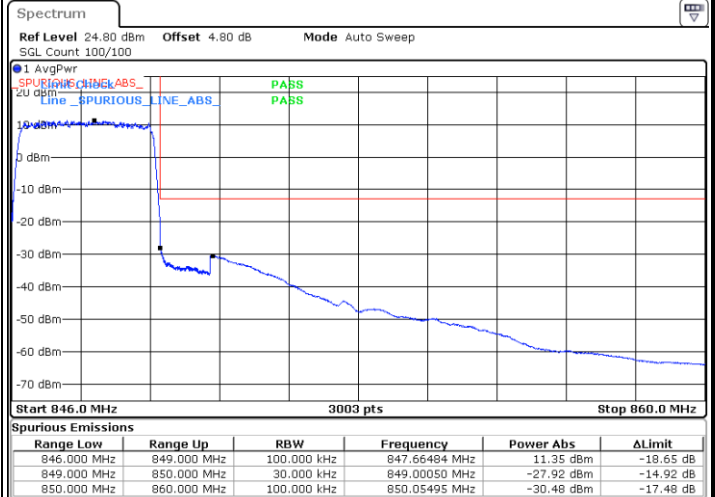
Date: 30.NOV.2021 03:45:22

Lowest Band Edge / Full RB



Date: 30.NOV.2021 03:41:37

Highest Band Edge / Full RB

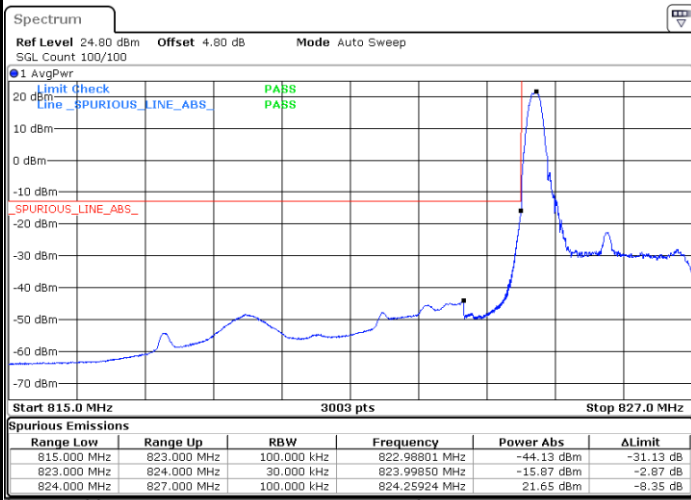


Date: 30.NOV.2021 03:49:08



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



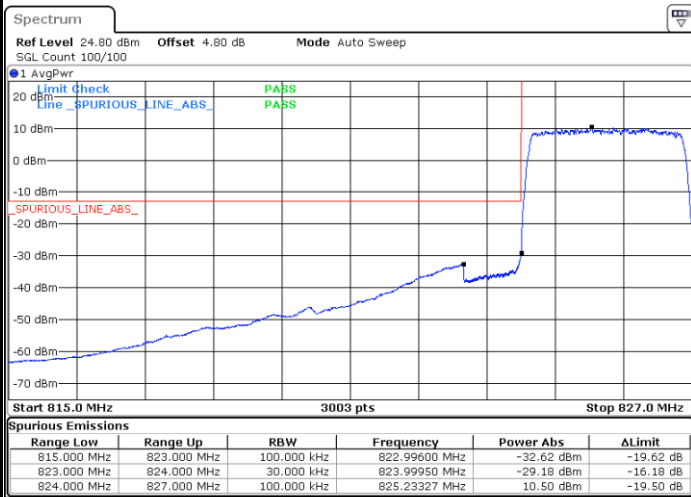
Date: 30.NOV.2021 03:39:44

Highest Band Edge / 1 RB



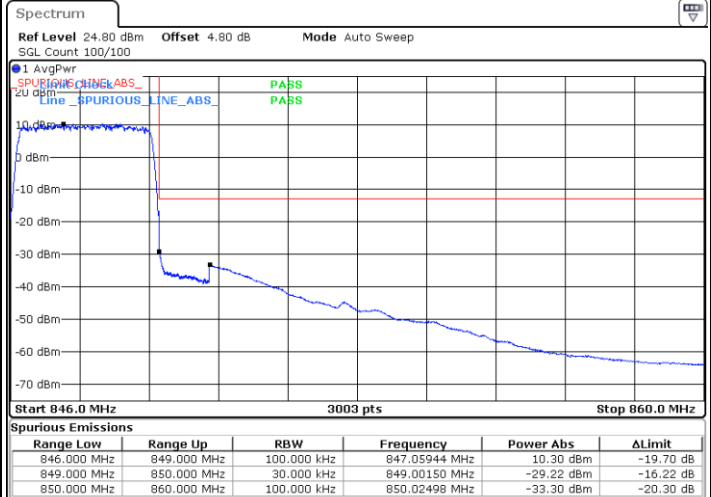
Date: 30.NOV.2021 03:47:15

Lowest Band Edge / Full RB



Date: 30.NOV.2021 03:43:29

Highest Band Edge / Full RB

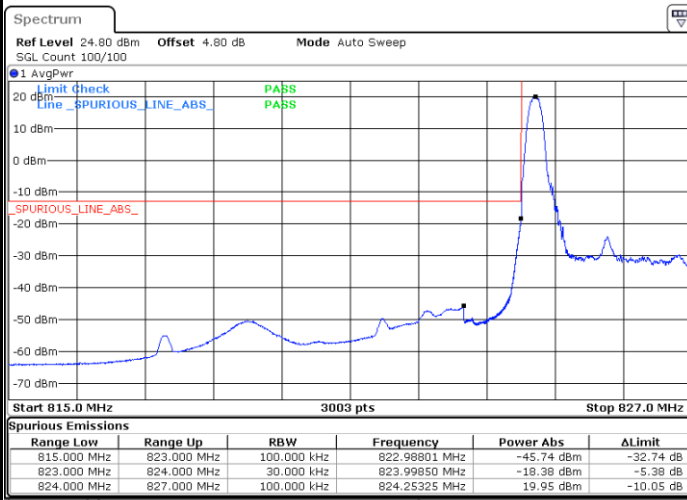


Date: 30.NOV.2021 03:51:00



LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



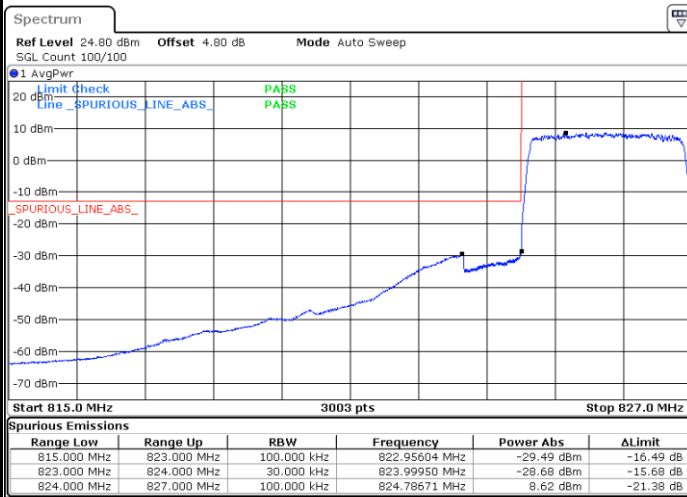
Date: 30.NOV.2021 05:15:57

Highest Band Edge / 1 RB



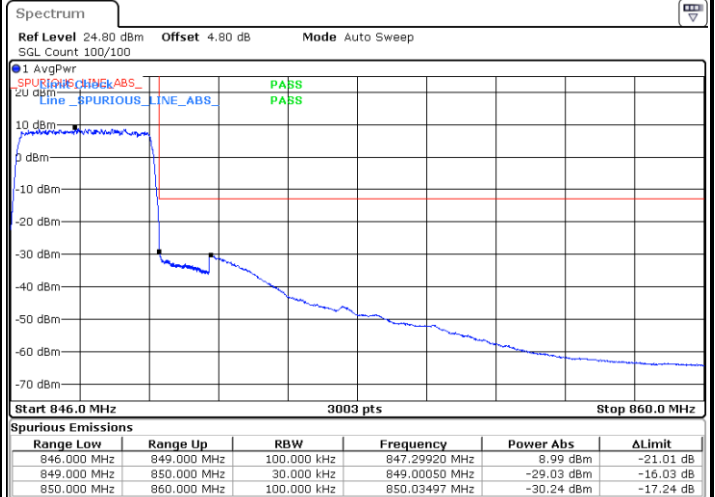
Date: 30.NOV.2021 05:10:18

Lowest Band Edge / Full RB



Date: 30.NOV.2021 05:14:03

Highest Band Edge / Full RB

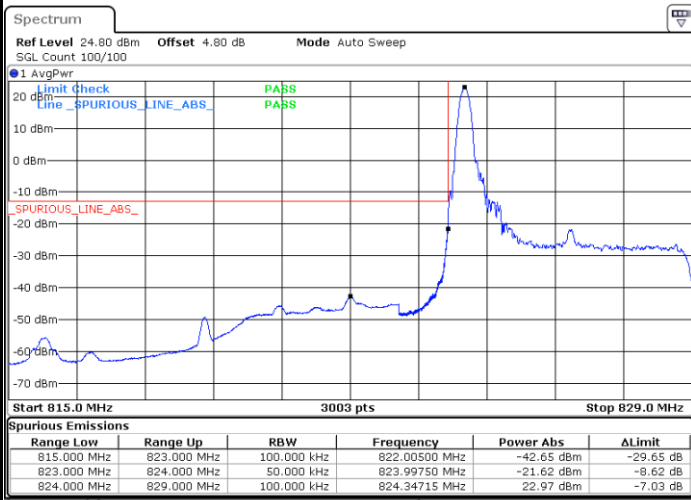


Date: 30.NOV.2021 05:12:11



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



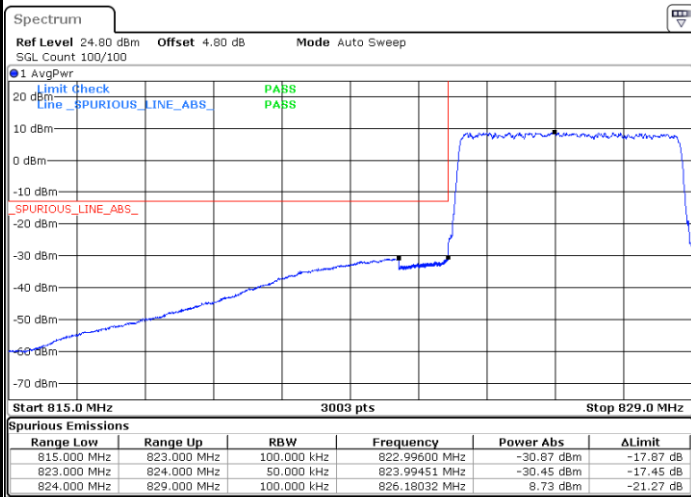
Date: 30.NOV.2021 03:52:54

Highest Band Edge / 1 RB



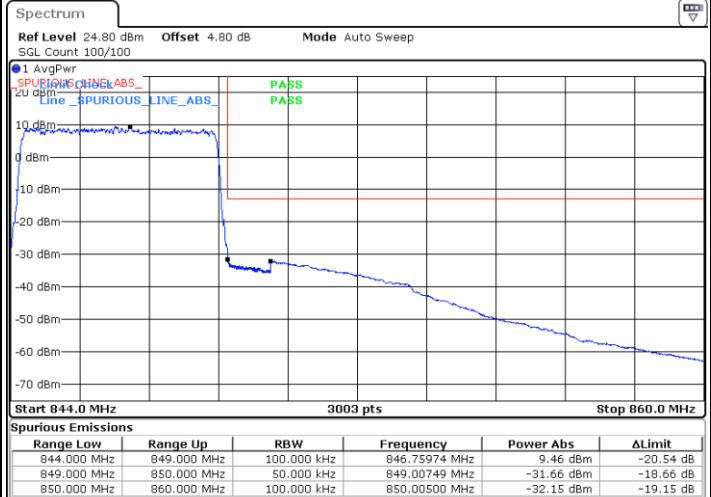
Date: 30.NOV.2021 04:00:25

Lowest Band Edge / Full RB



Date: 30.NOV.2021 03:56:40

Highest Band Edge / Full RB

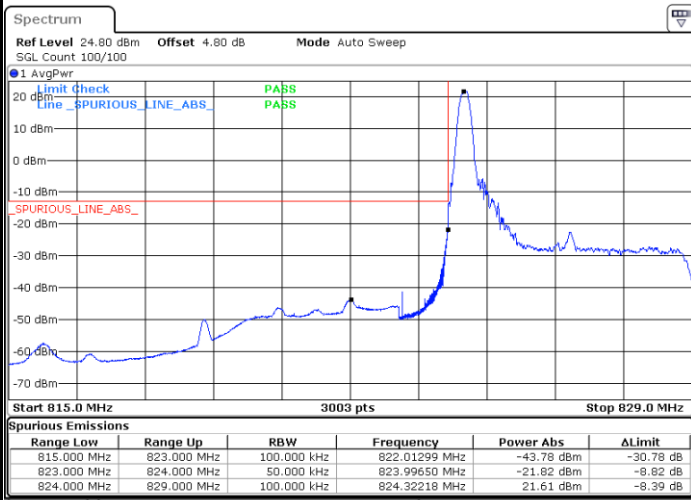


Date: 30.NOV.2021 04:04:11



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



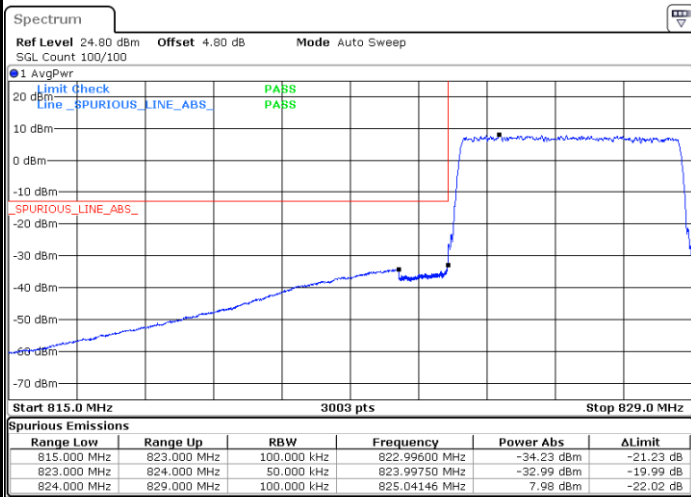
Date: 30.NOV.2021 03:54:47

Highest Band Edge / 1 RB



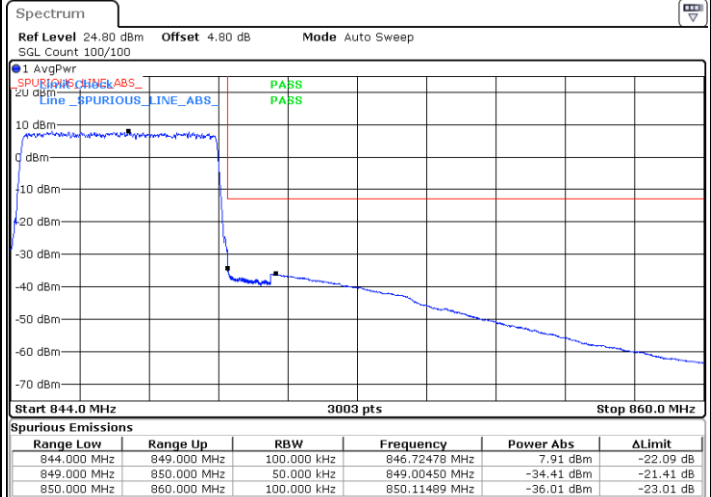
Date: 30.NOV.2021 04:02:18

Lowest Band Edge / Full RB



Date: 30.NOV.2021 03:58:33

Highest Band Edge / Full RB

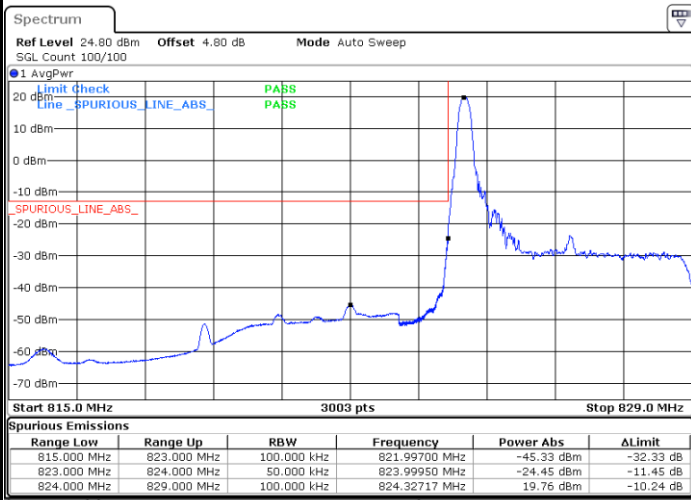


Date: 30.NOV.2021 04:06:04



LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



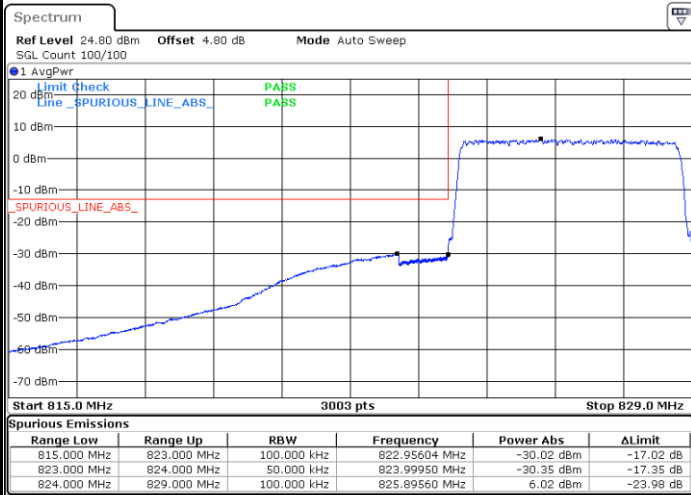
Date: 30.NOV.2021 05:17:50

Highest Band Edge / 1 RB



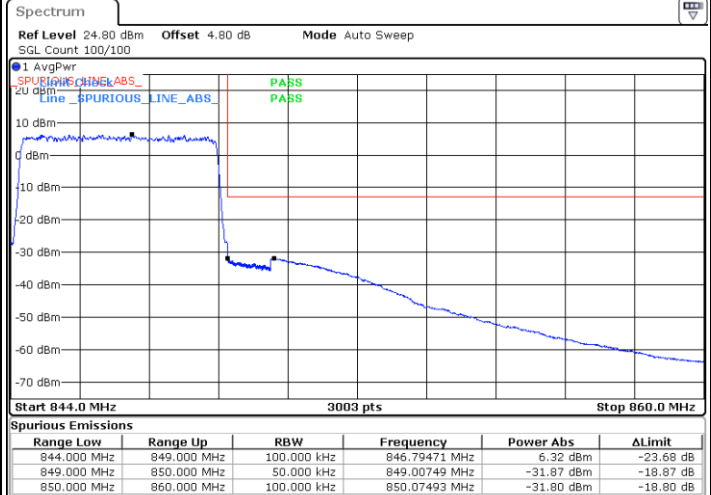
Date: 30.NOV.2021 05:23:28

Lowest Band Edge / Full RB



Date: 30.NOV.2021 05:19:43

Highest Band Edge / Full RB

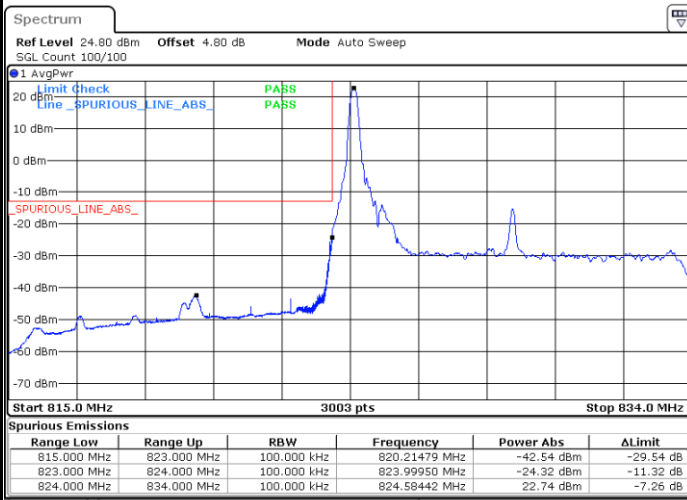


Date: 30.NOV.2021 05:21:35

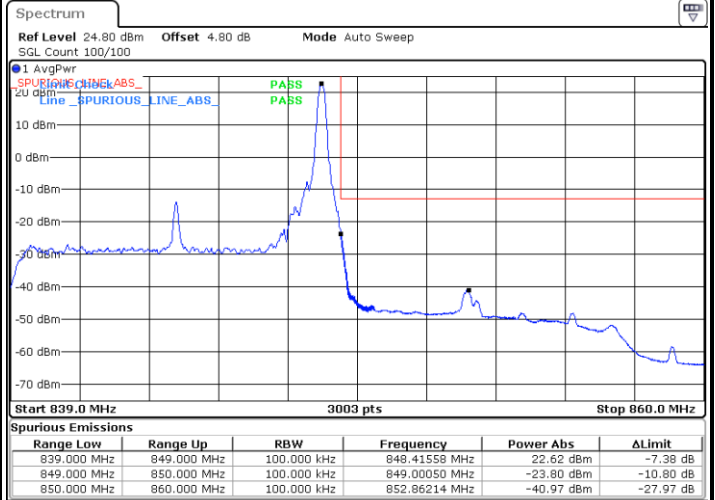


LTE Band 5 / 10MHz / QPSK

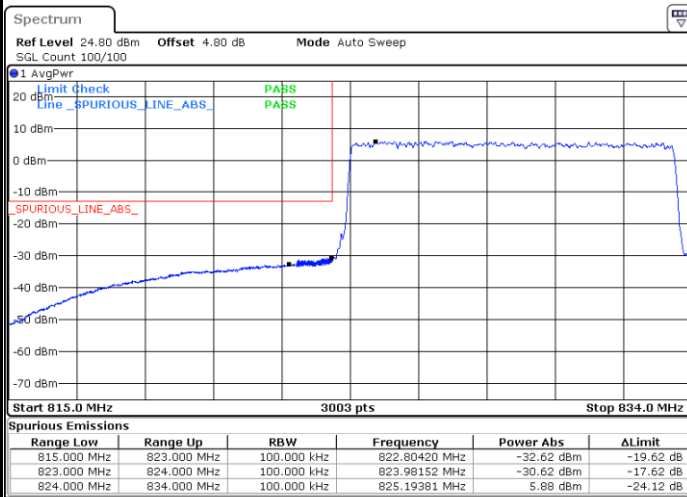
Lowest Band Edge / 1 RB



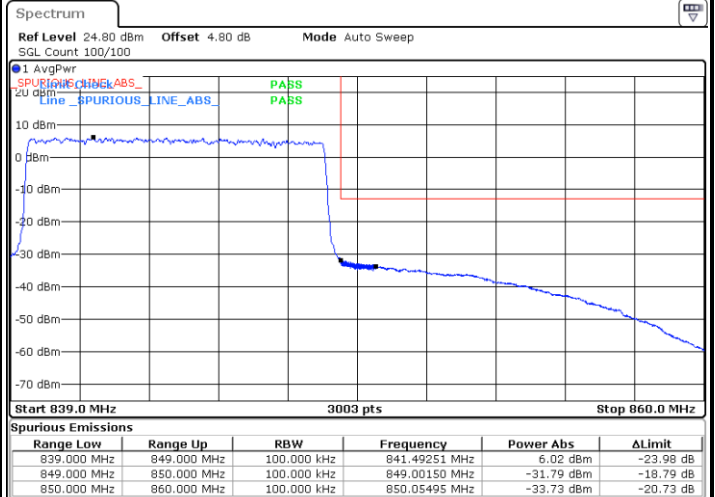
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



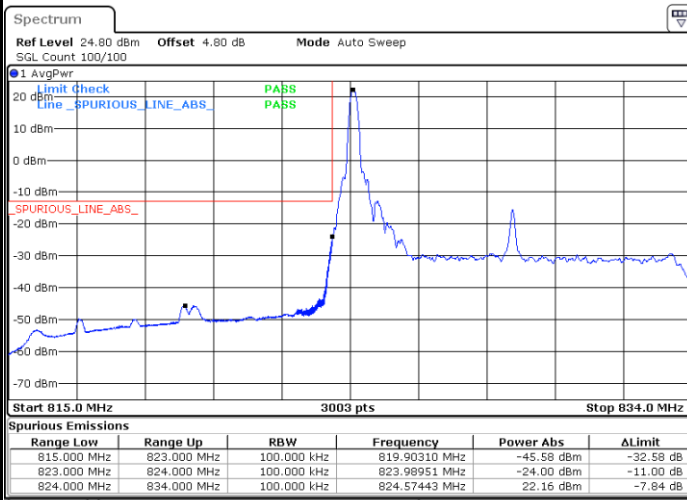
Highest Band Edge / Full RB





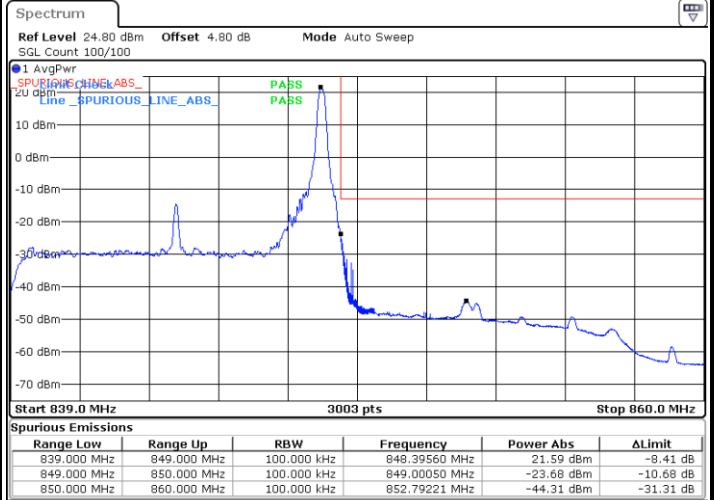
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



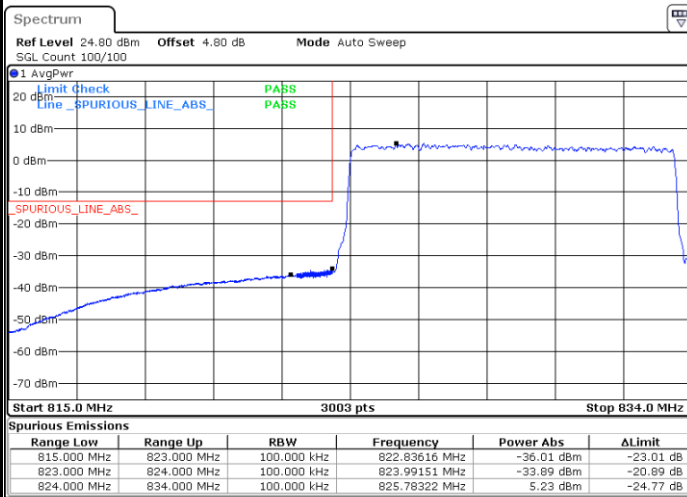
Date: 30.NOV.2021 04:09:50

Highest Band Edge / 1 RB



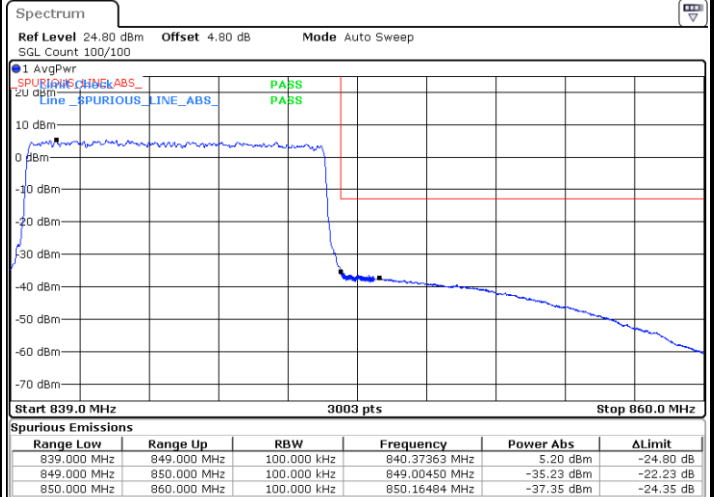
Date: 30.NOV.2021 04:17:21

Lowest Band Edge / Full RB



Date: 30.NOV.2021 04:13:36

Highest Band Edge / Full RB

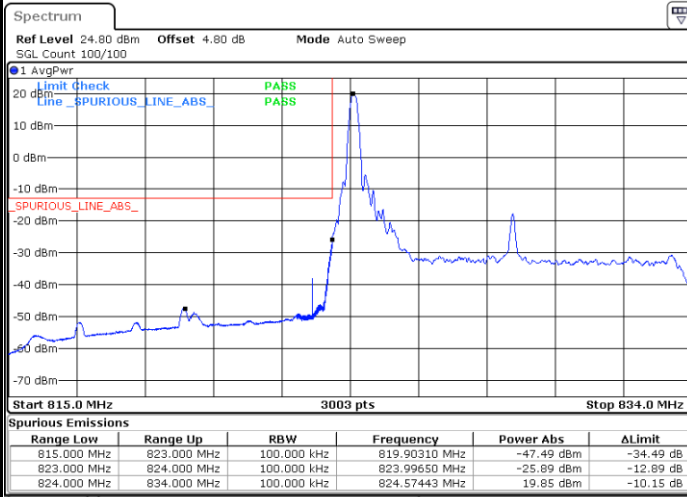


Date: 30.NOV.2021 04:21:07



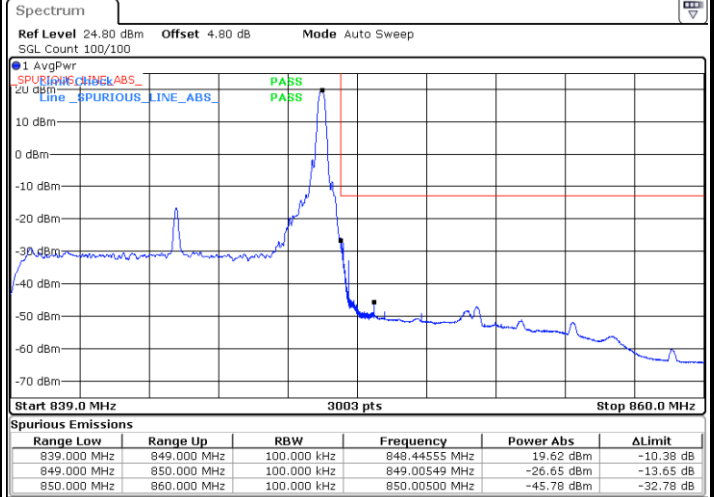
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



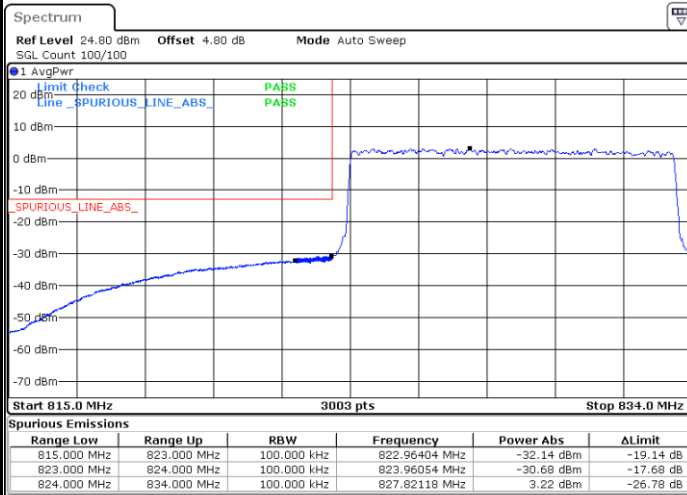
Date: 30.NOV.2021 05:31:00

Highest Band Edge / 1 RB



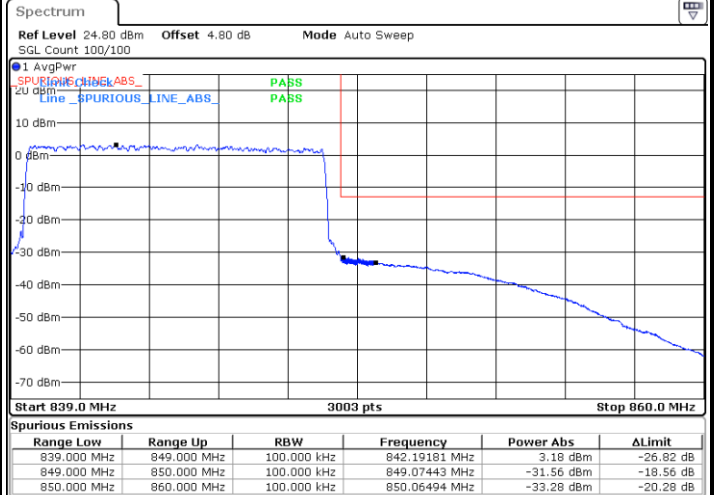
Date: 30.NOV.2021 05:25:21

Lowest Band Edge / Full RB



Date: 30.NOV.2021 05:29:07

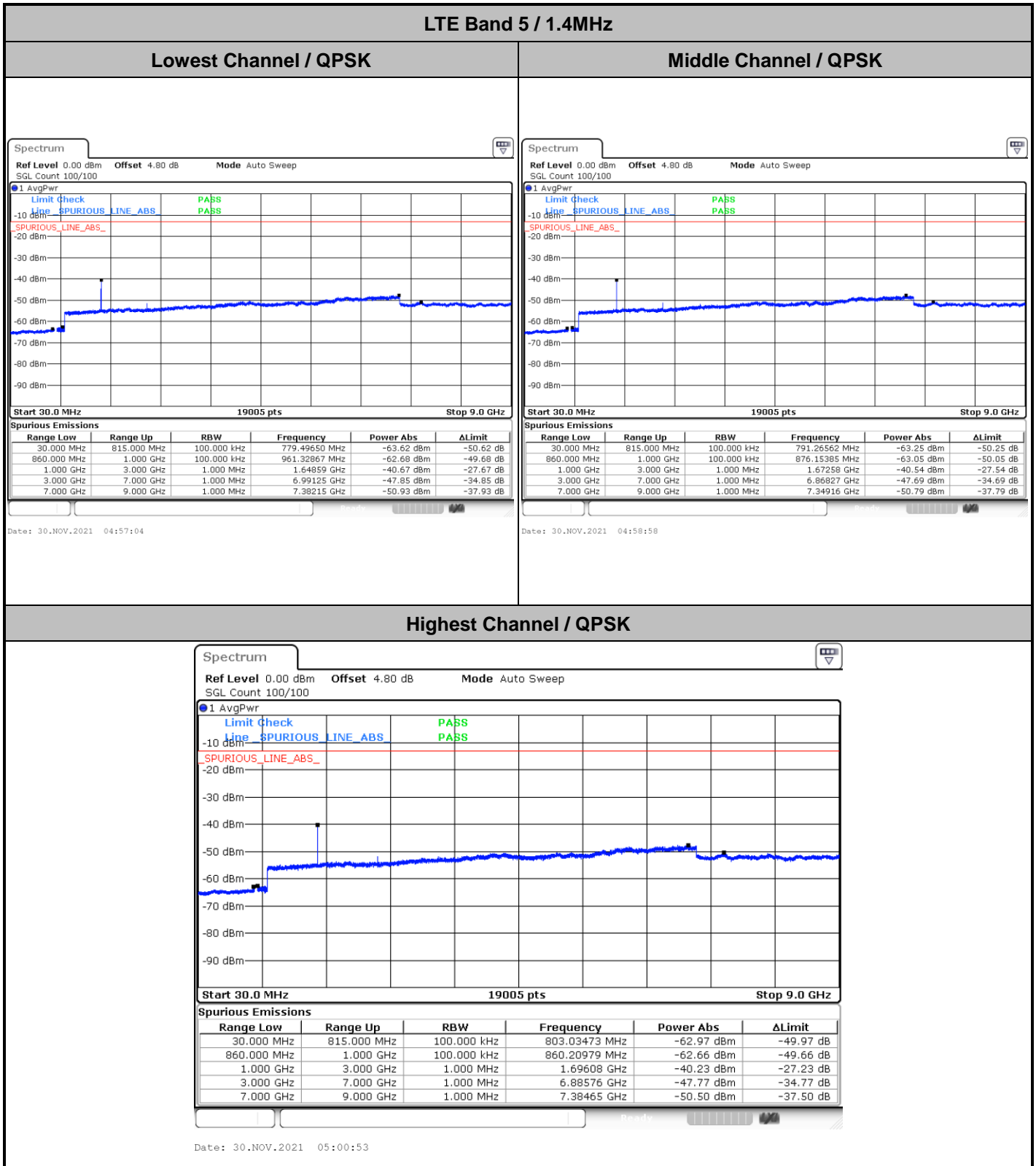
Highest Band Edge / Full RB



Date: 30.NOV.2021 05:27:14



Conducted Spurious Emission

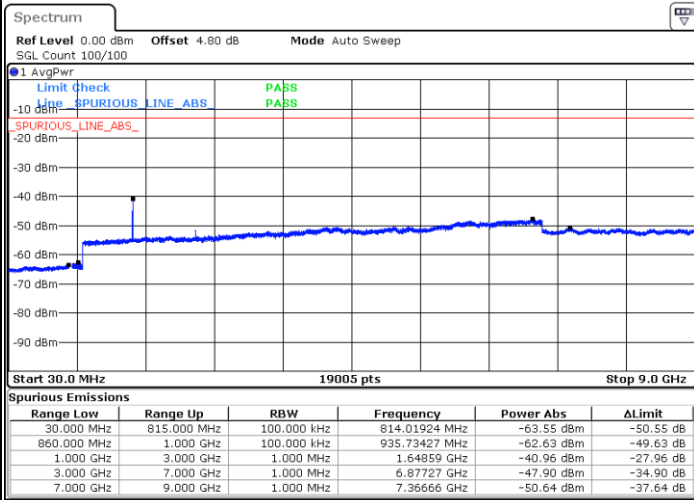




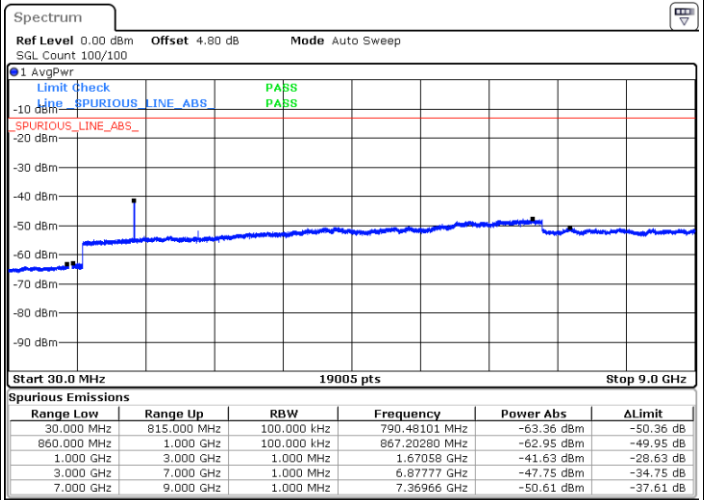
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

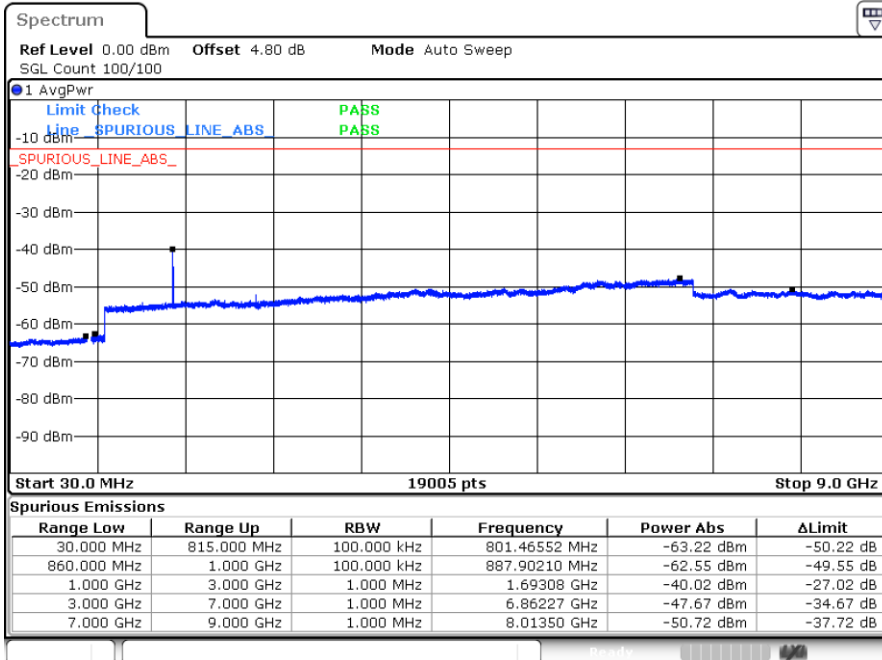


Date: 30.NOV.2021 04:23:02



Date: 30.NOV.2021 04:24:56

Highest Channel / QPSK



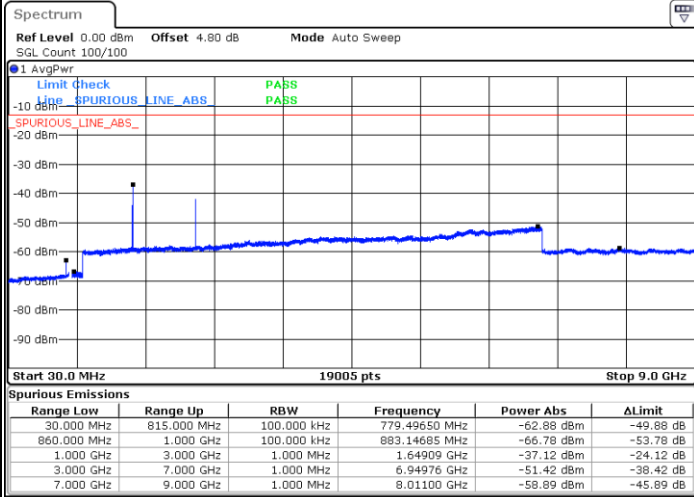
Date: 30.NOV.2021 04:26:50



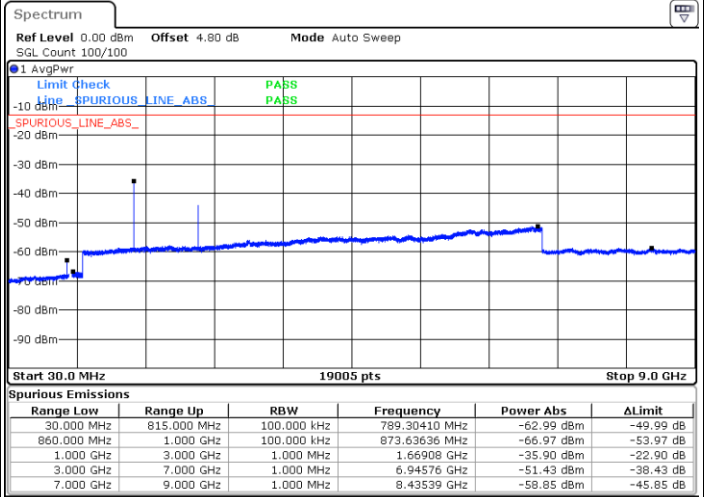
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

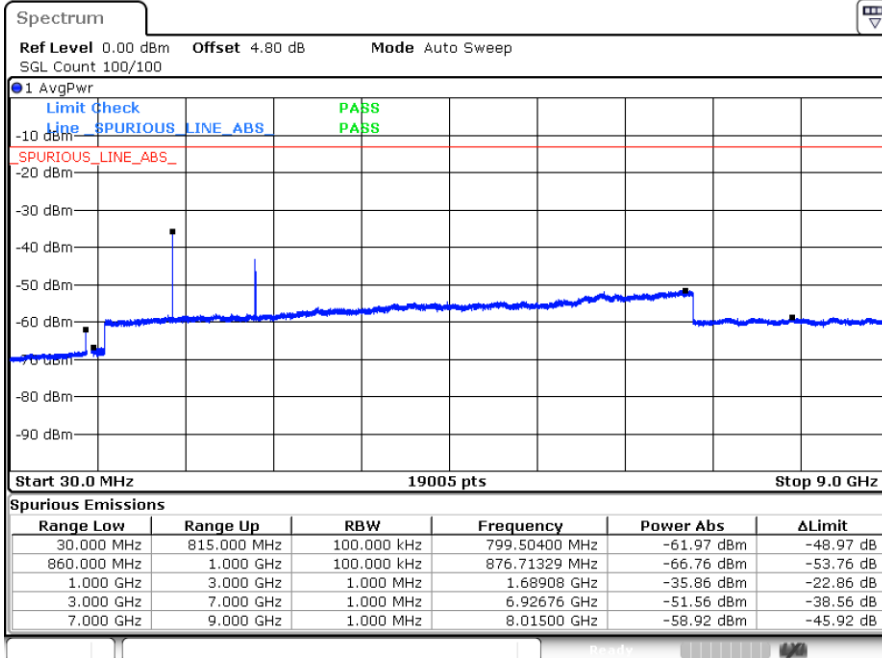


Date: 30.NOV.2021 04:30:38



Date: 30.NOV.2021 04:32:32

Highest Channel / QPSK



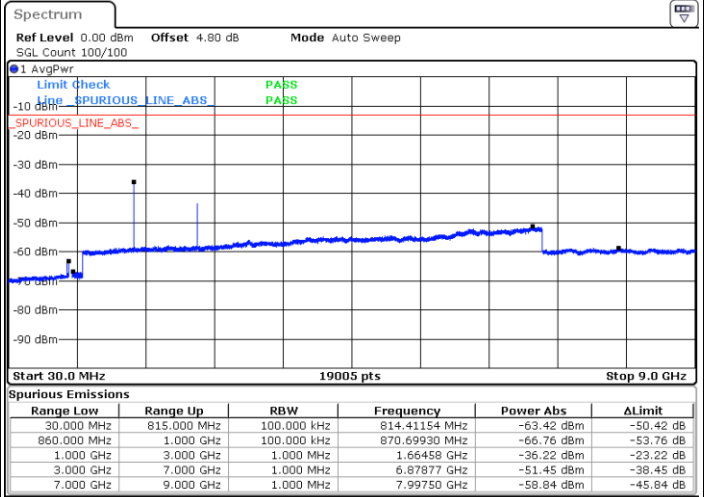
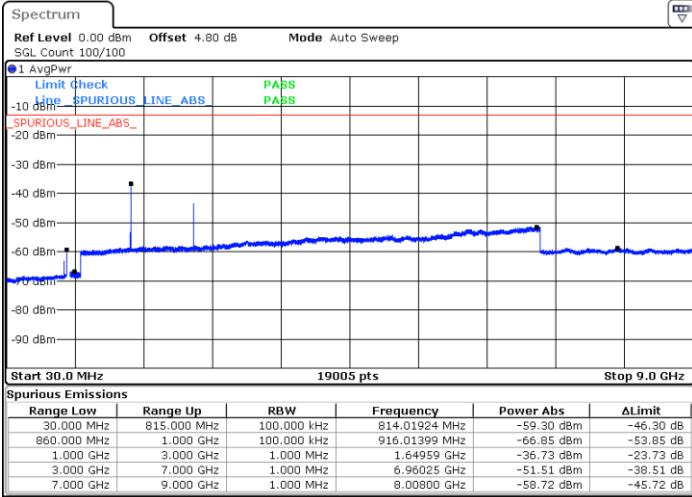
Date: 30.NOV.2021 04:34:25



LTE Band 5 / 10MHz

Lowest Channel / QPSK

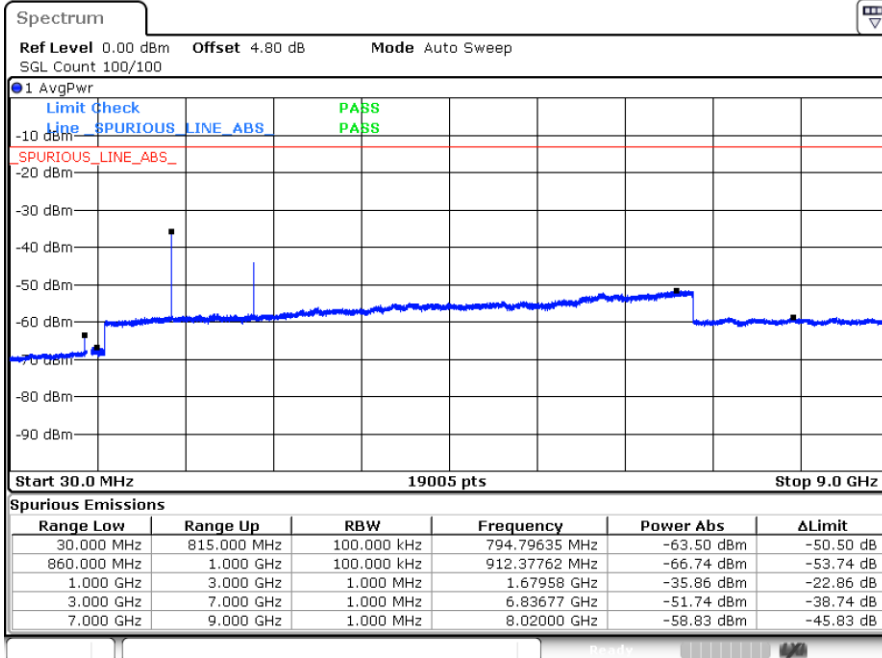
Middle Channel / QPSK



Date: 30.NOV.2021 04:36:20

Date: 30.NOV.2021 04:38:13

Highest Channel / QPSK



Date: 30.NOV.2021 04:40:07



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

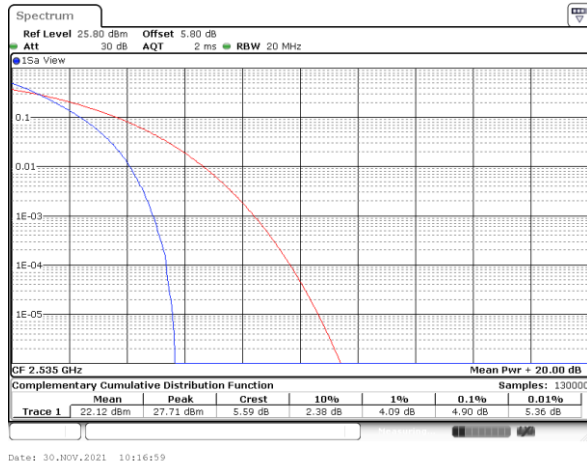
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.86	5.88	PASS



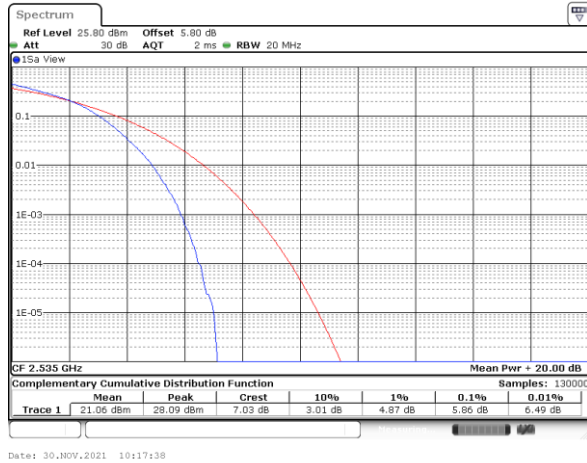
LTE Band 7 / 20MHz

Middle Channel / Full RB/ QPSK



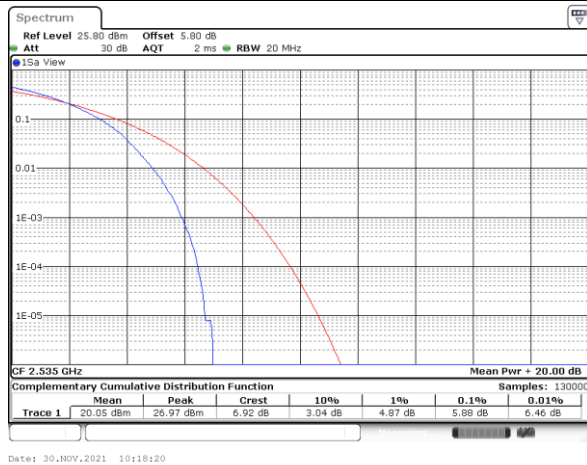
Date: 30.NOV.2021 10:16:59

Middle Channel / Full RB/ 16QAM



Date: 30.NOV.2021 10:17:38

Middle Channel / Full RB/ 64QAM

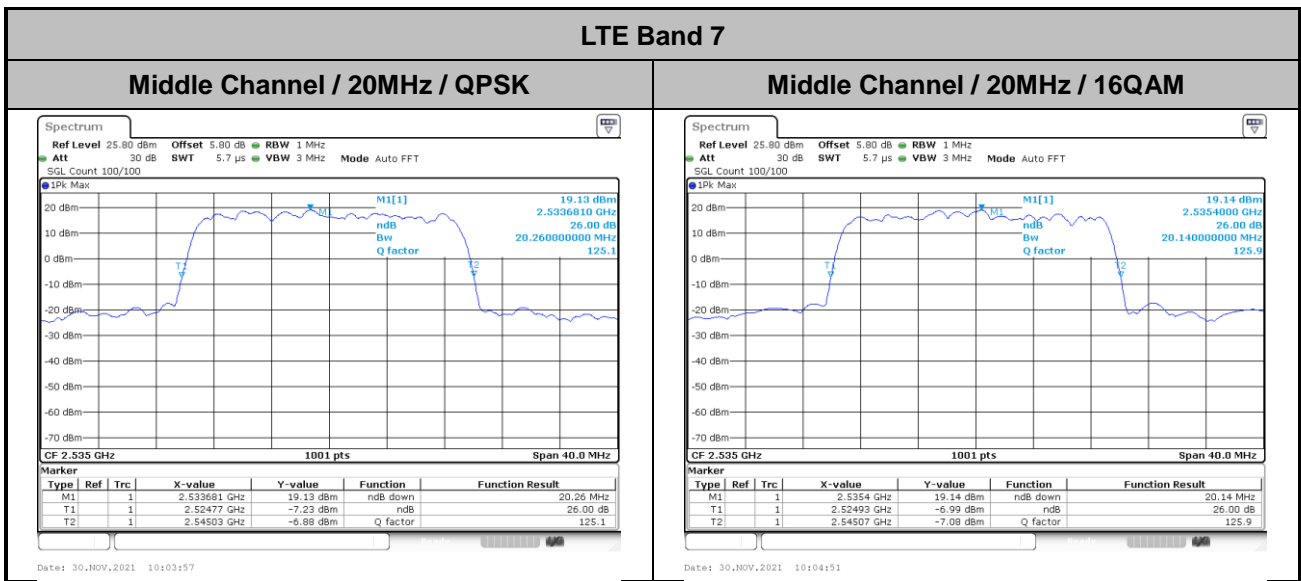


Date: 30.NOV.2021 10:18:20



26dB Bandwidth

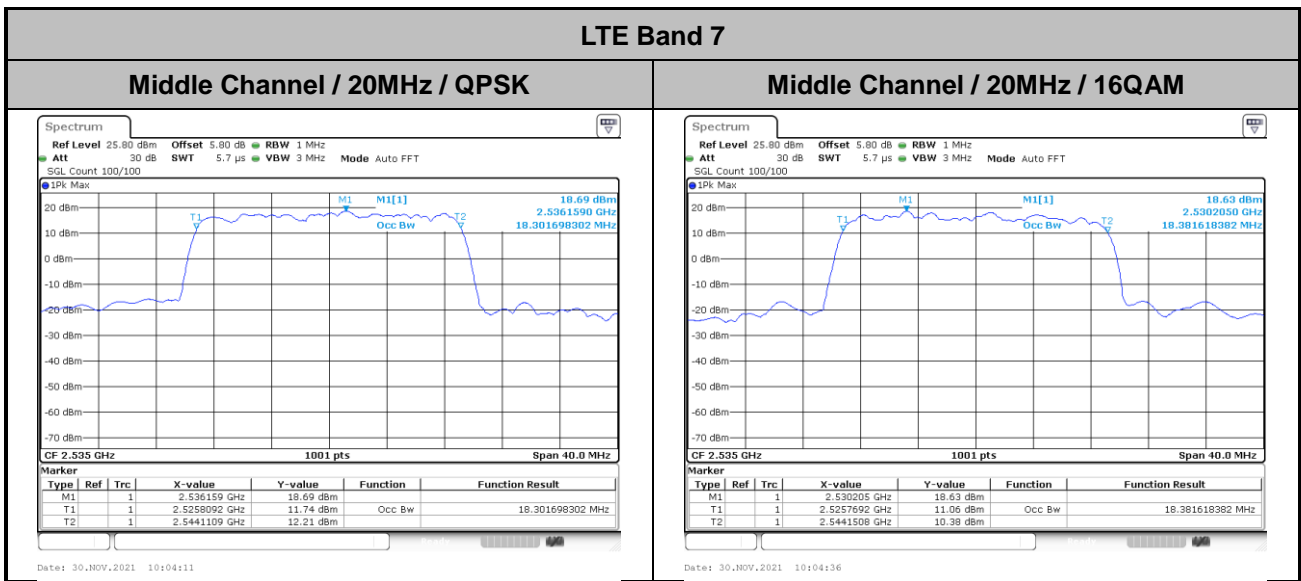
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.26	20.14





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.30	18.38

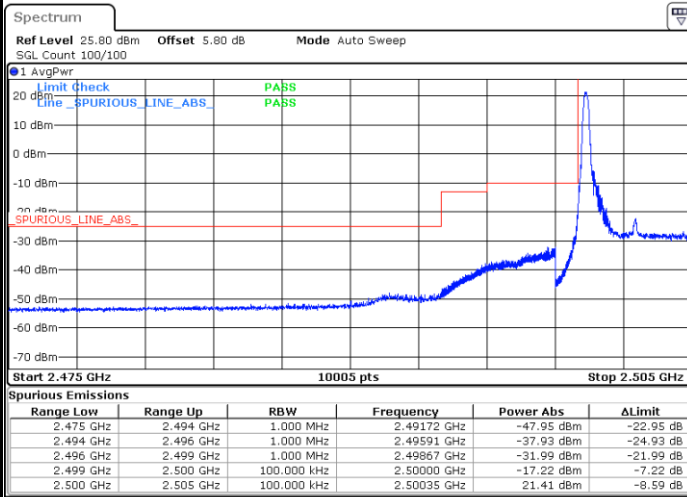




Conducted Band Edge

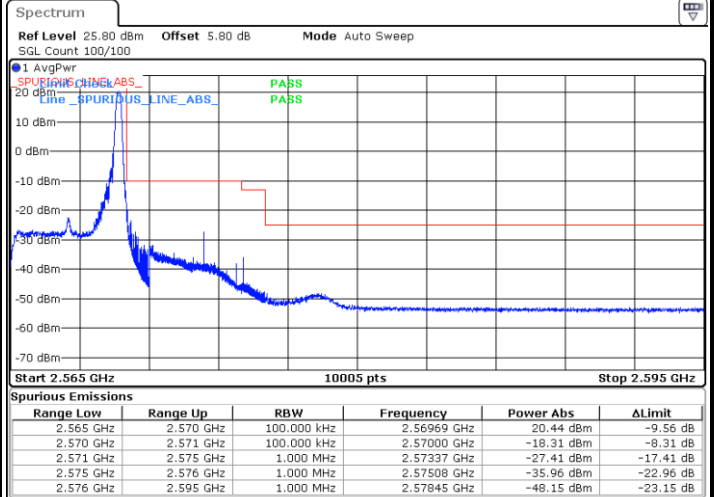
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



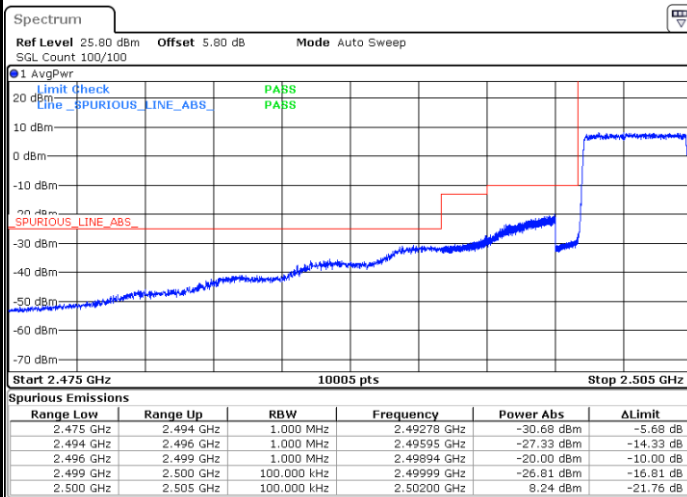
Date: 30.NOV.2021 08:38:04

Highest Band Edge / 1 RB



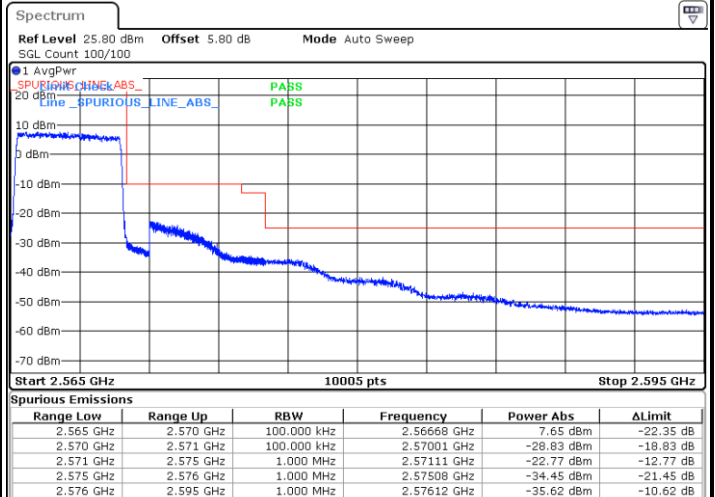
Date: 30.NOV.2021 08:50:09

Lowest Band Edge / Full RB



Date: 30.NOV.2021 08:45:01

Highest Band Edge / Full RB

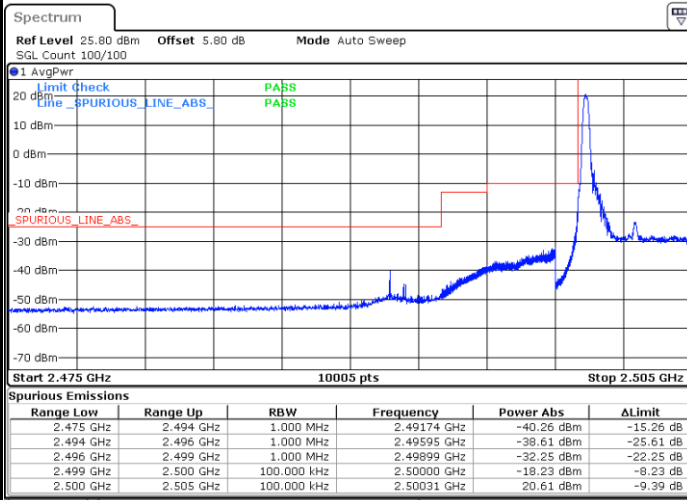


Date: 30.NOV.2021 08:57:06



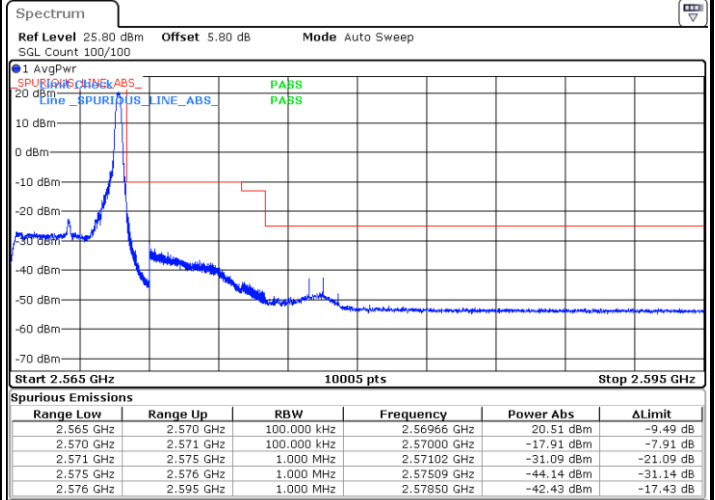
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



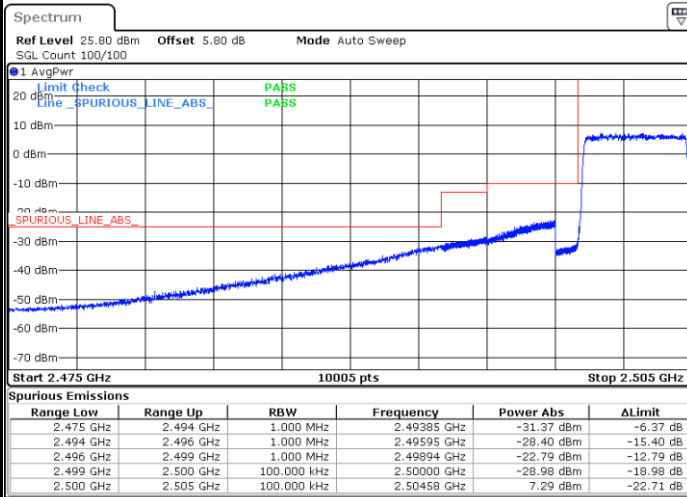
Date: 30.NOV.2021 08:39:28

Highest Band Edge / 1 RB



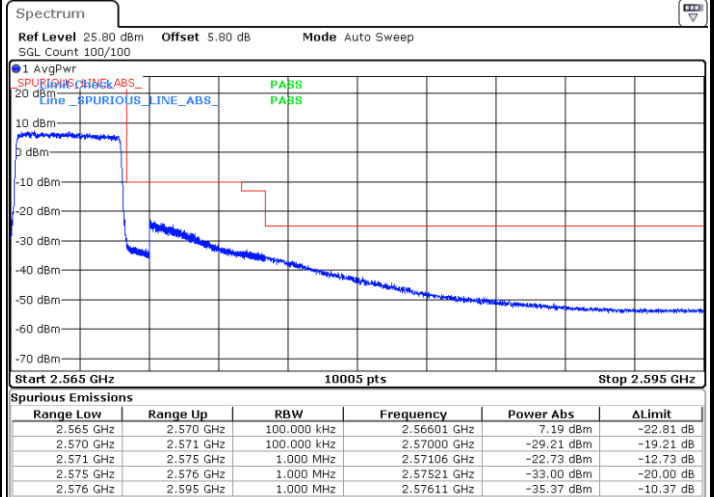
Date: 30.NOV.2021 08:51:32

Lowest Band Edge / Full RB



Date: 30.NOV.2021 08:43:38

Highest Band Edge / Full RB

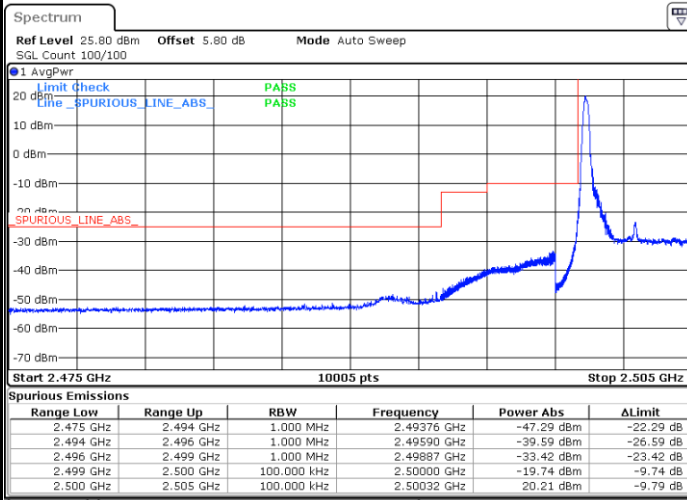


Date: 30.NOV.2021 08:55:42



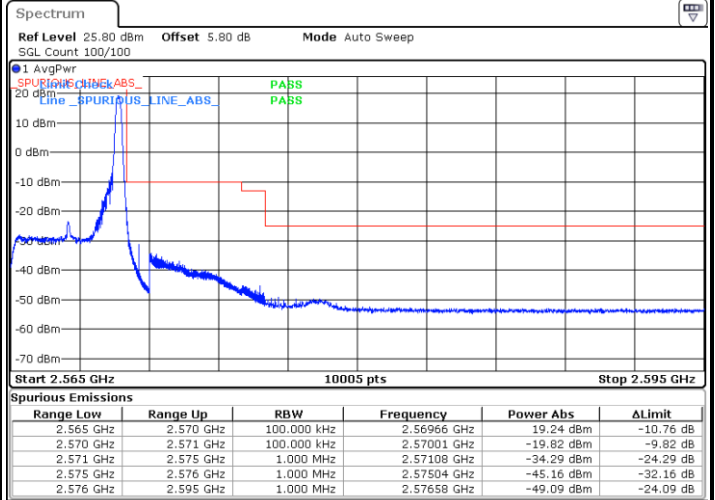
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



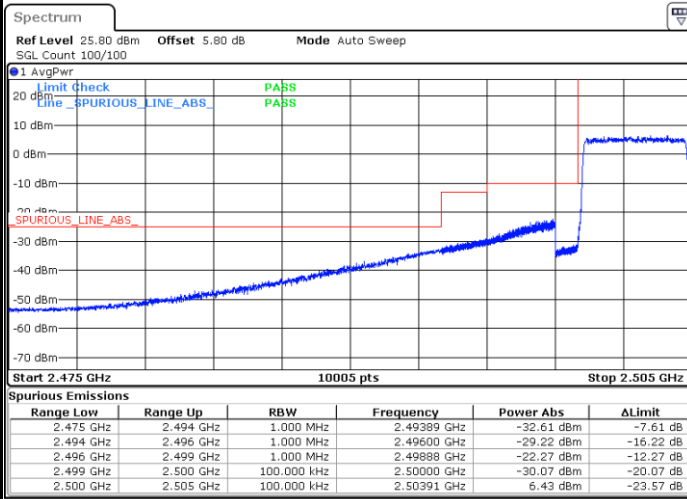
Date: 30.NOV.2021 08:40:51

Highest Band Edge / 1 RB



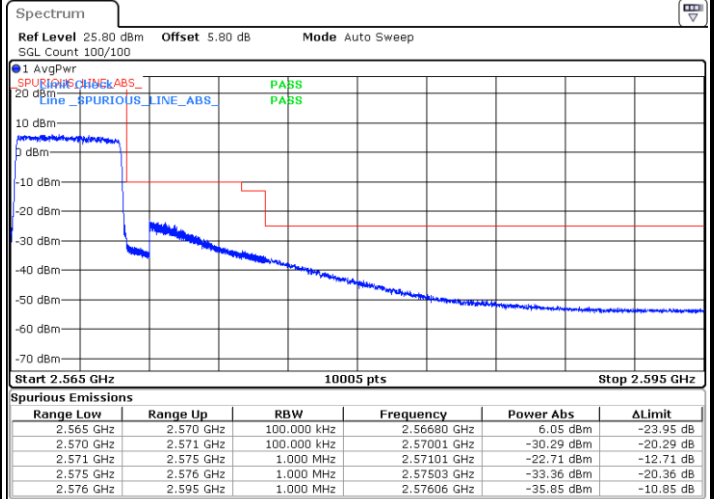
Date: 30.NOV.2021 08:52:56

Lowest Band Edge / Full RB



Date: 30.NOV.2021 08:42:15

Highest Band Edge / Full RB

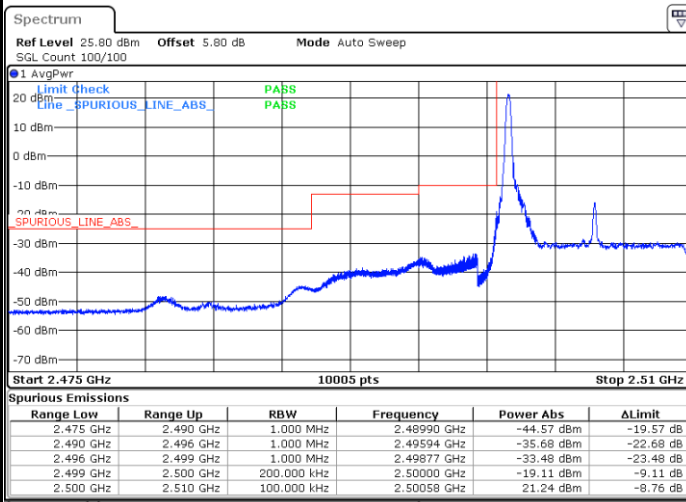


Date: 30.NOV.2021 08:54:19



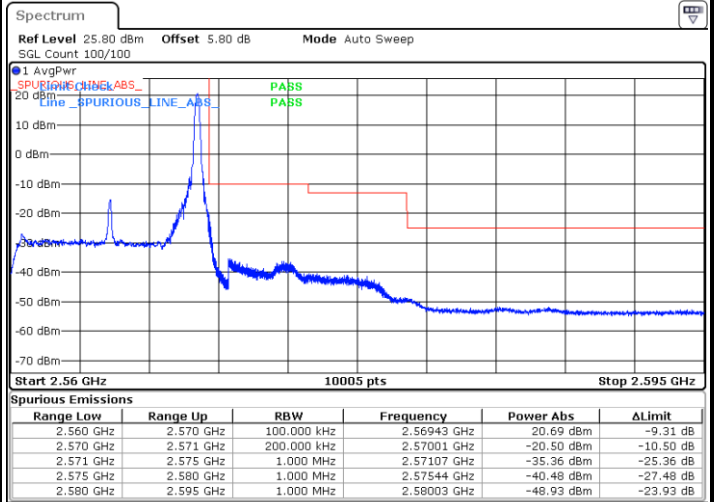
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



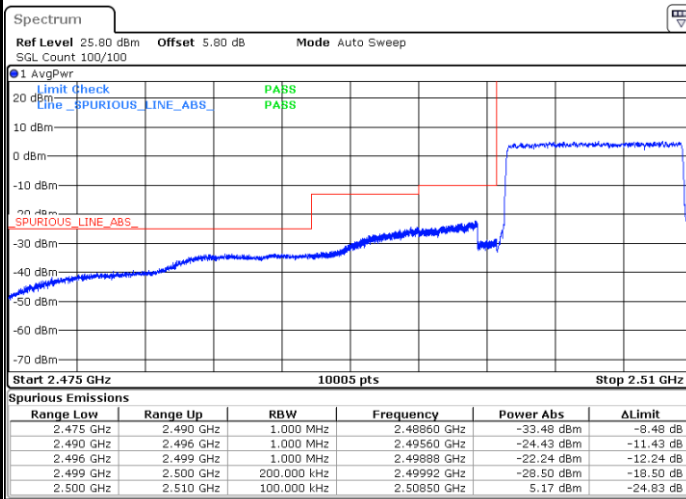
Date: 30.NOV.2021 09:00:13

Highest Band Edge / 1 RB



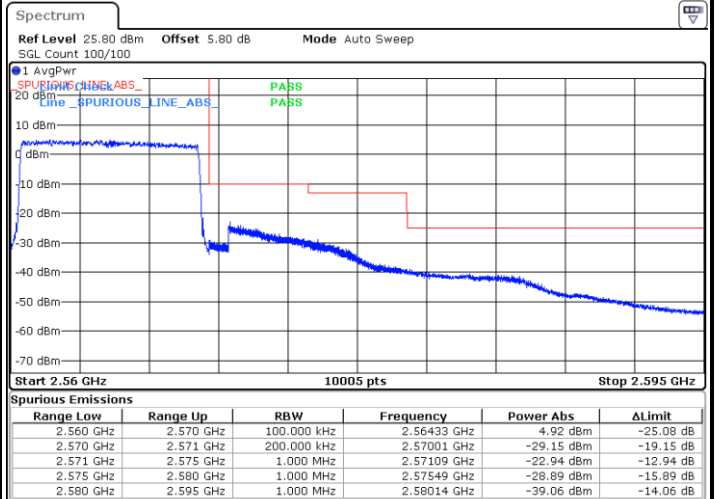
Date: 30.NOV.2021 09:12:18

Lowest Band Edge / Full RB



Date: 30.NOV.2021 09:07:10

Highest Band Edge / Full RB



Date: 30.NOV.2021 09:19:17