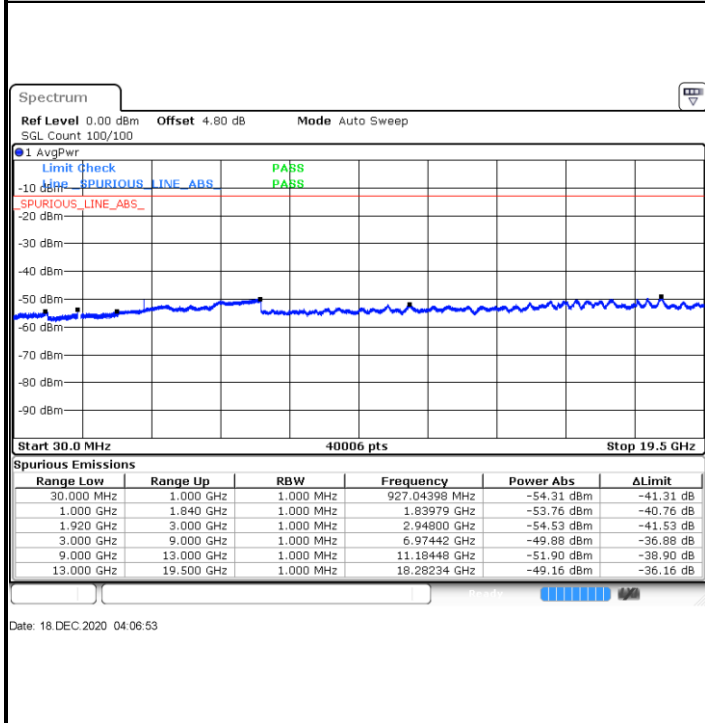


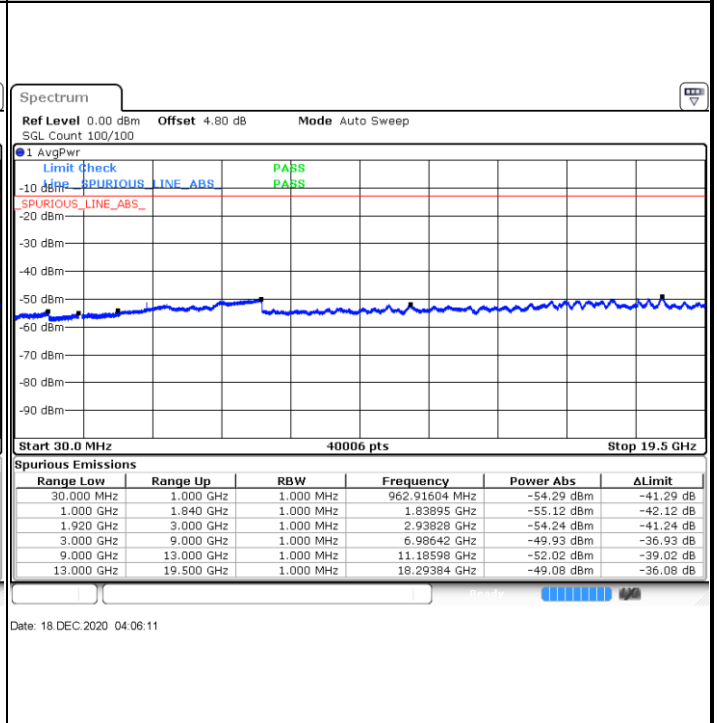


LTE Band 2 / 3MHz

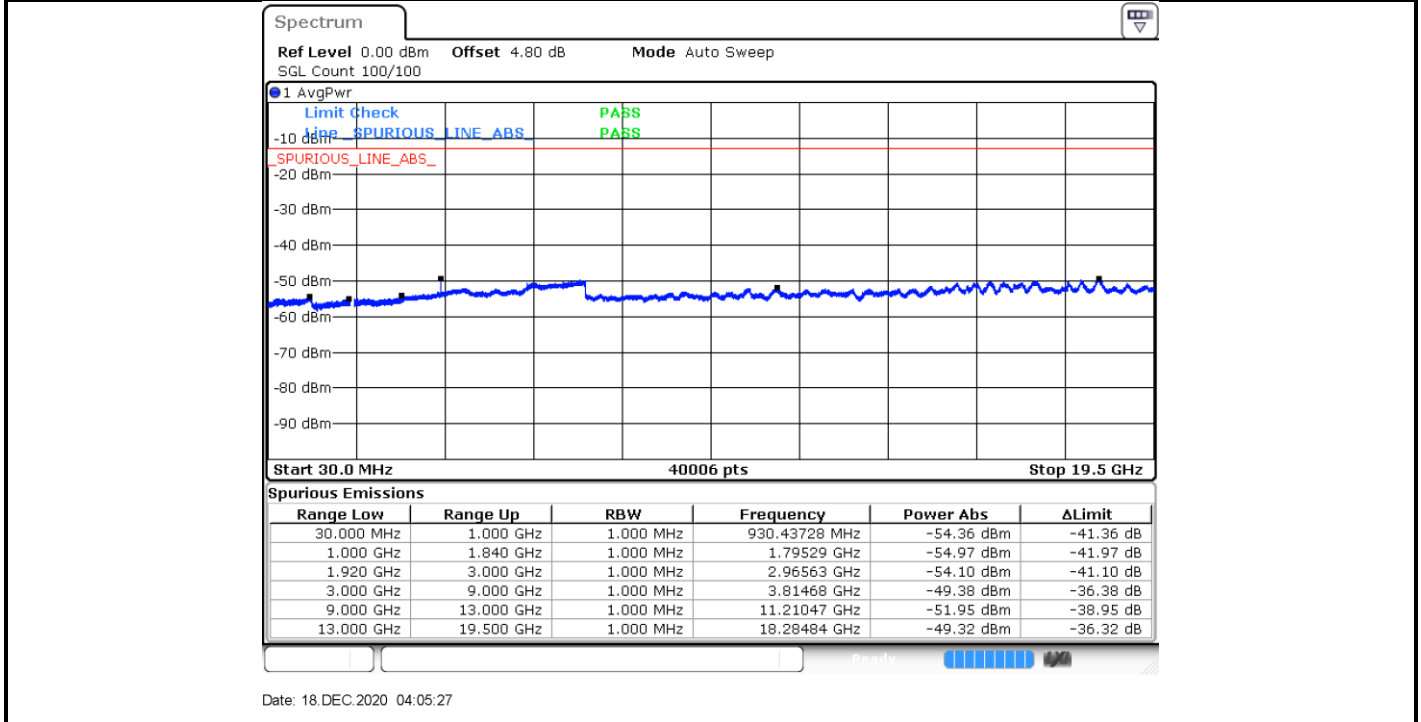
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

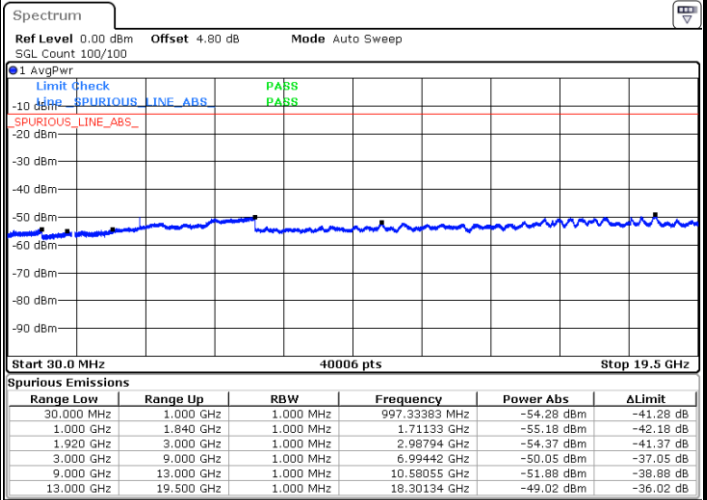
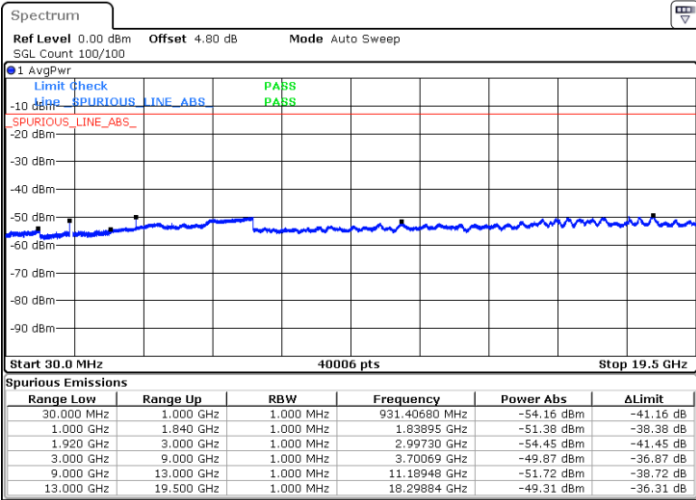




LTE Band 2 / 5MHz

Lowest Channel / QPSK

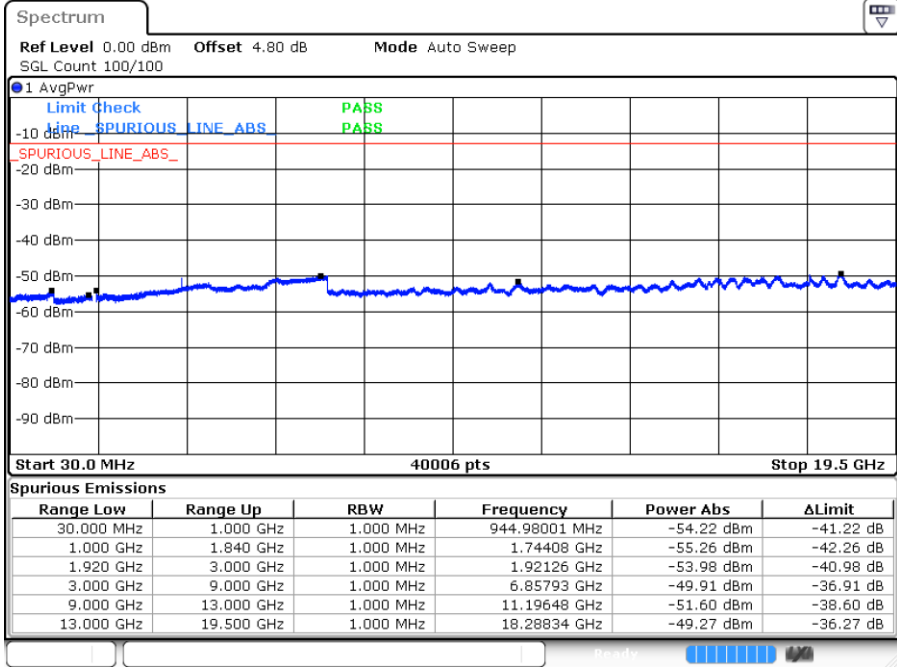
Middle Channel / QPSK



Date: 18.DEC.2020 04:07:47

Date: 18.DEC.2020 04:08:29

Highest Channel / QPSK



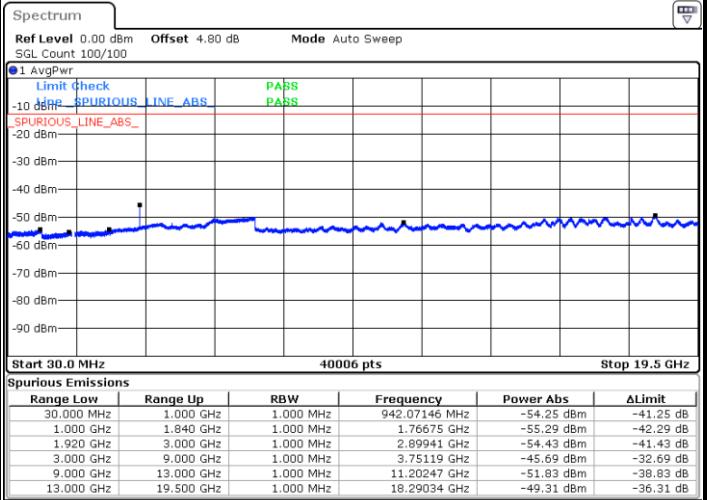
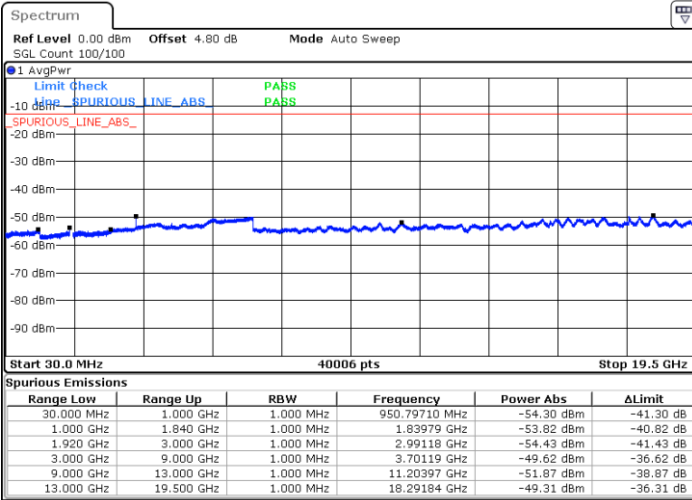
Date: 18.DEC.2020 04:09:11



LTE Band 2 / 10MHz

Lowest Channel / QPSK

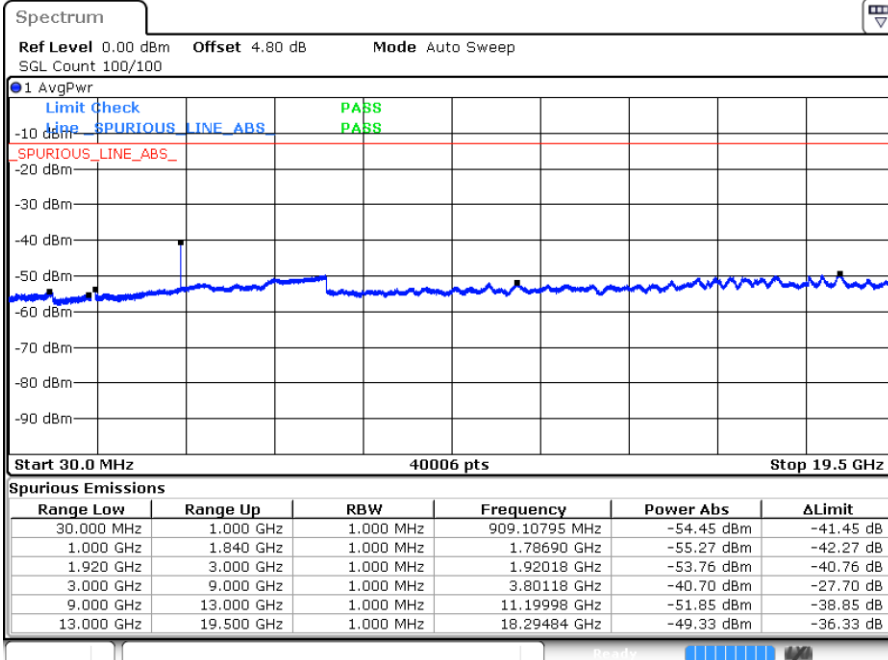
Middle Channel / QPSK



Date: 18.DEC.2020 04:23:09

Date: 18.DEC.2020 04:22:22

Highest Channel / QPSK



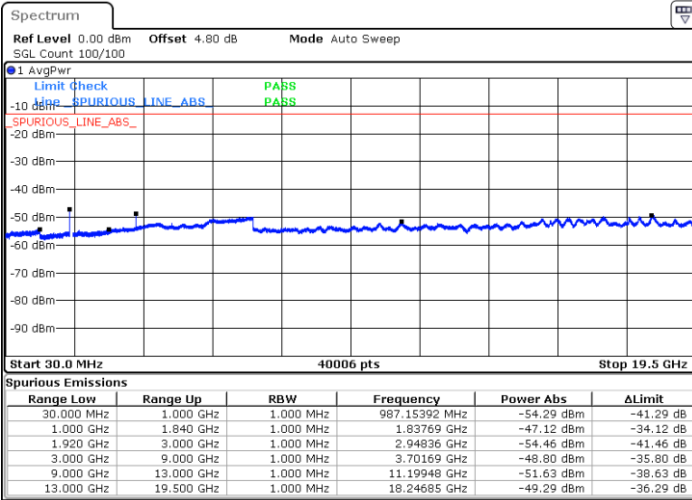
Date: 18.DEC.2020 04:21:34



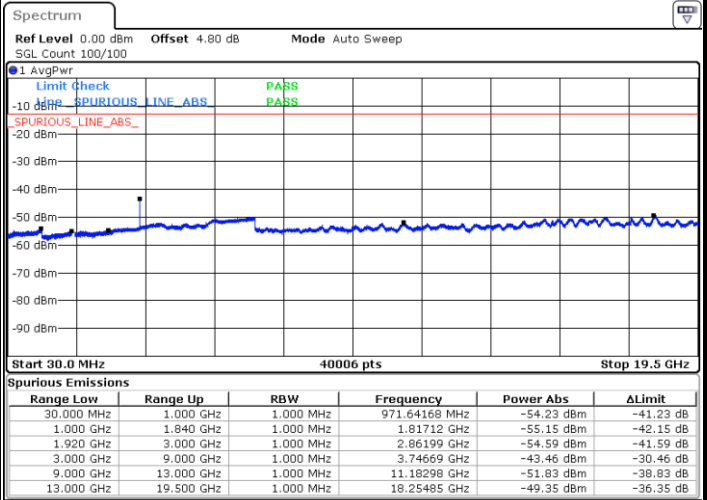
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

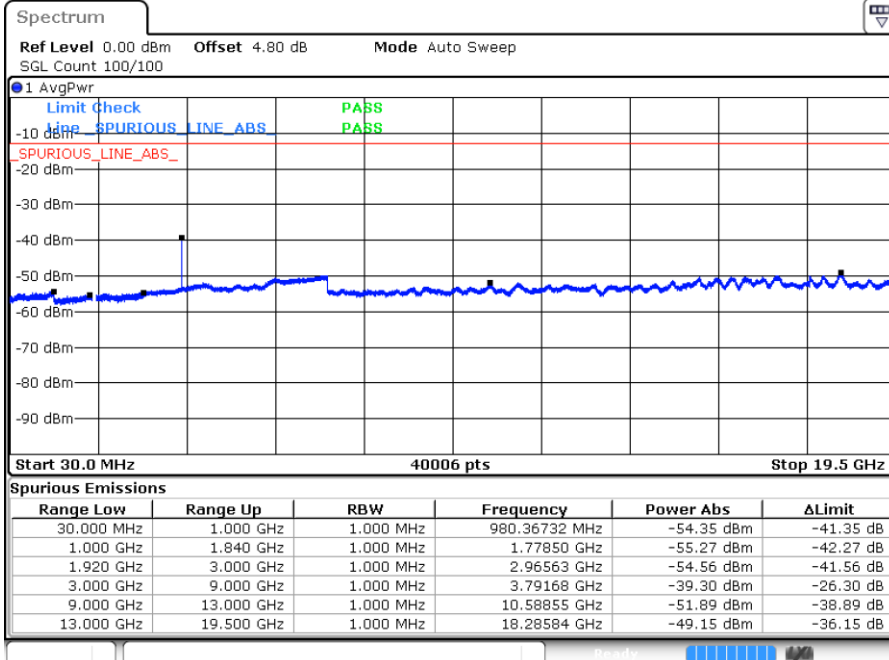


Date: 18.DEC.2020 04:24:16



Date: 18.DEC.2020 04:24:58

Highest Channel / QPSK



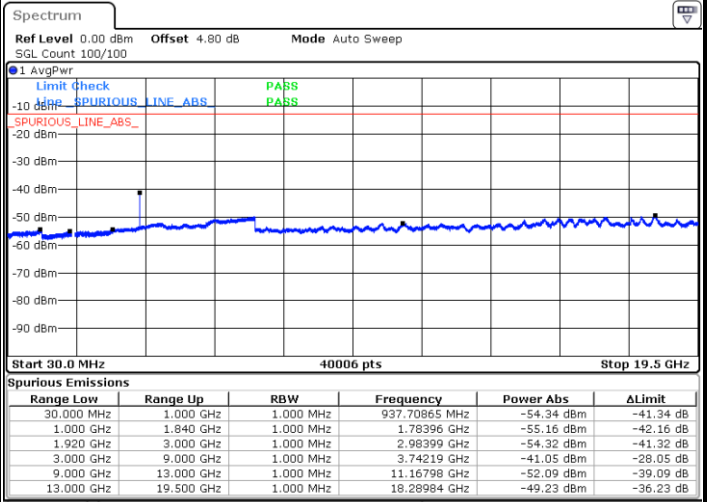
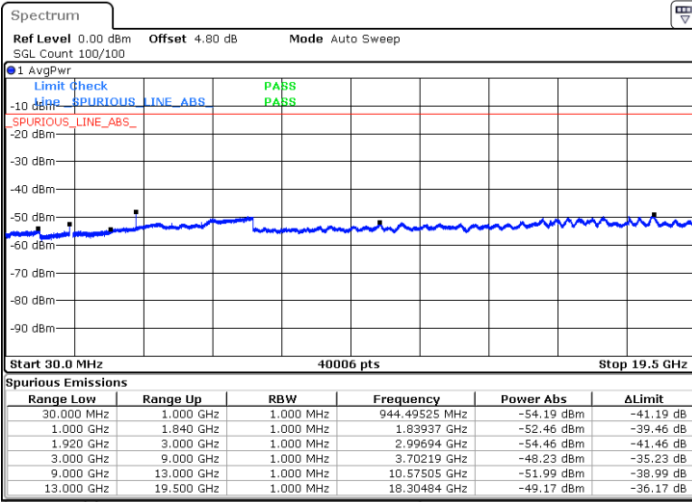
Date: 18.DEC.2020 04:25:44



LTE Band 2 / 20MHz

Lowest Channel / QPSK

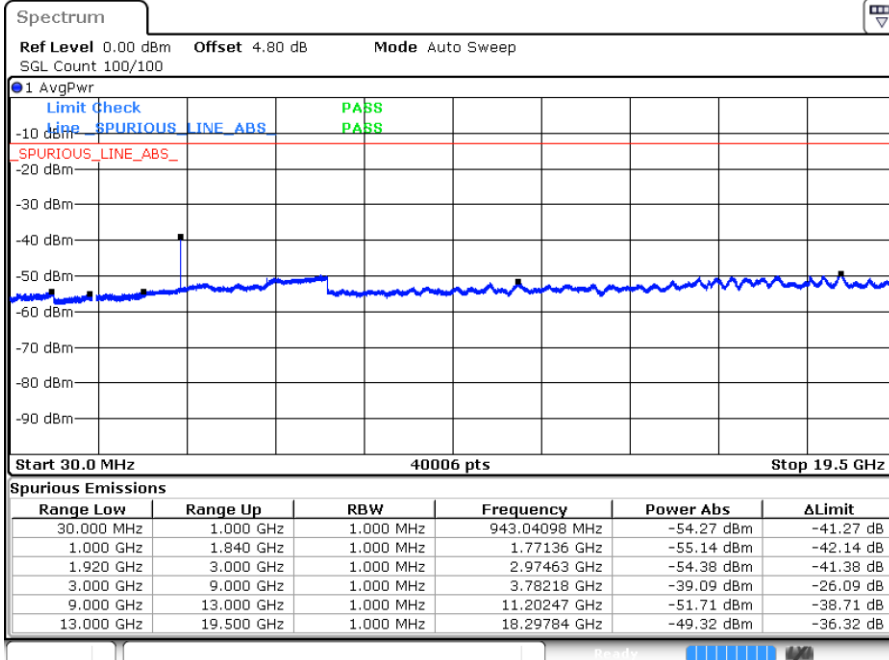
Middle Channel / QPSK



Date: 18.DEC.2020 04:37:01

Date: 18.DEC.2020 04:35:57

Highest Channel / QPSK



Date: 18.DEC.2020 04:35:13



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0017	
20	Battery End Point	0.0032	

Note:

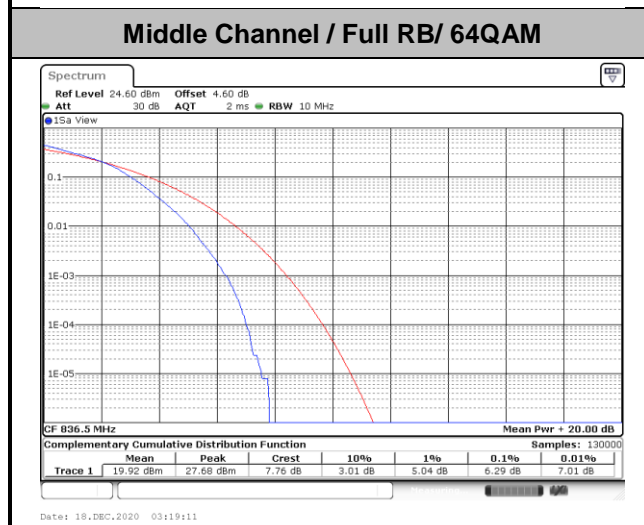
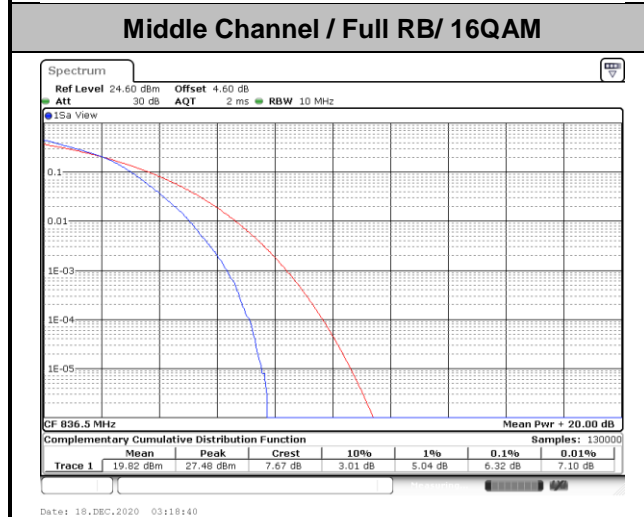
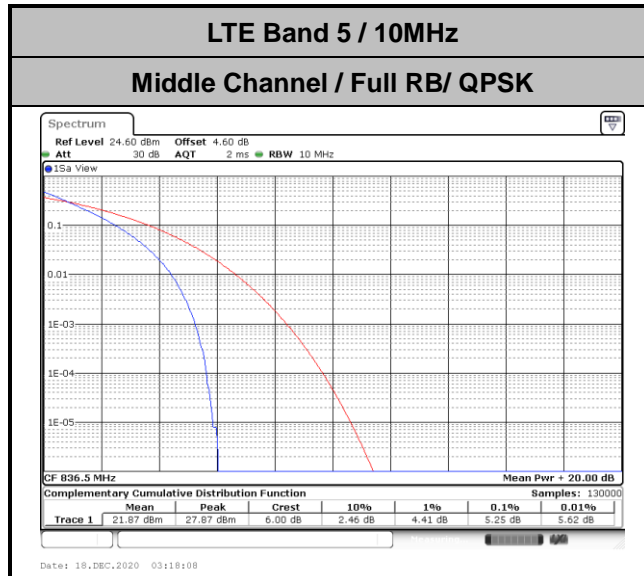
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

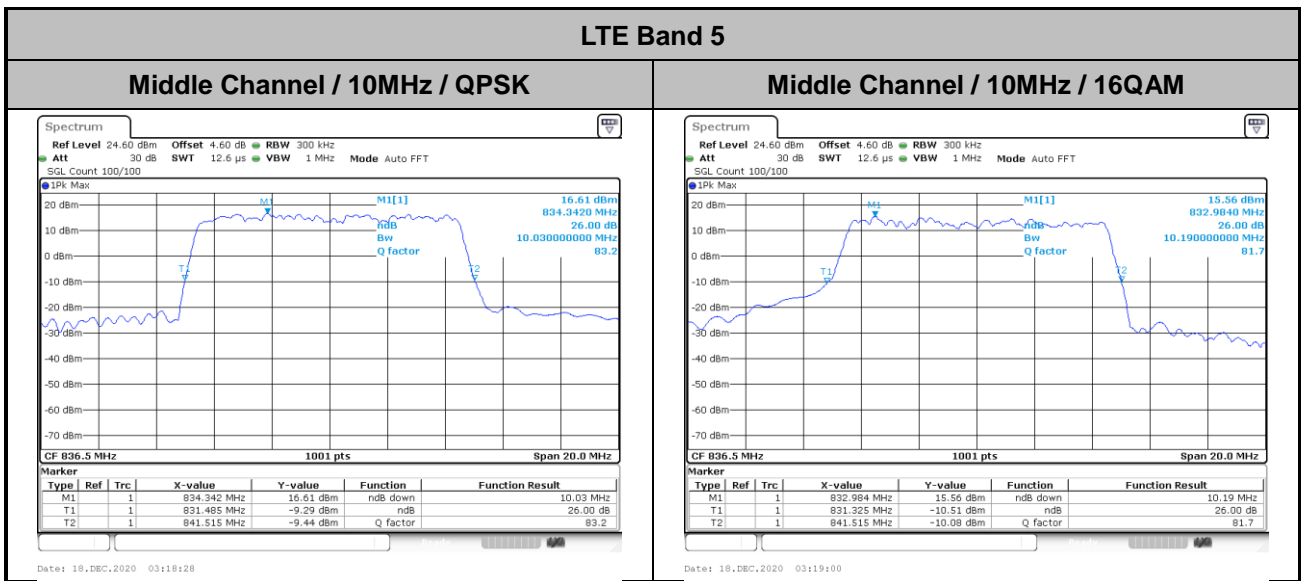
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.32	6.29	PASS





26dB Bandwidth

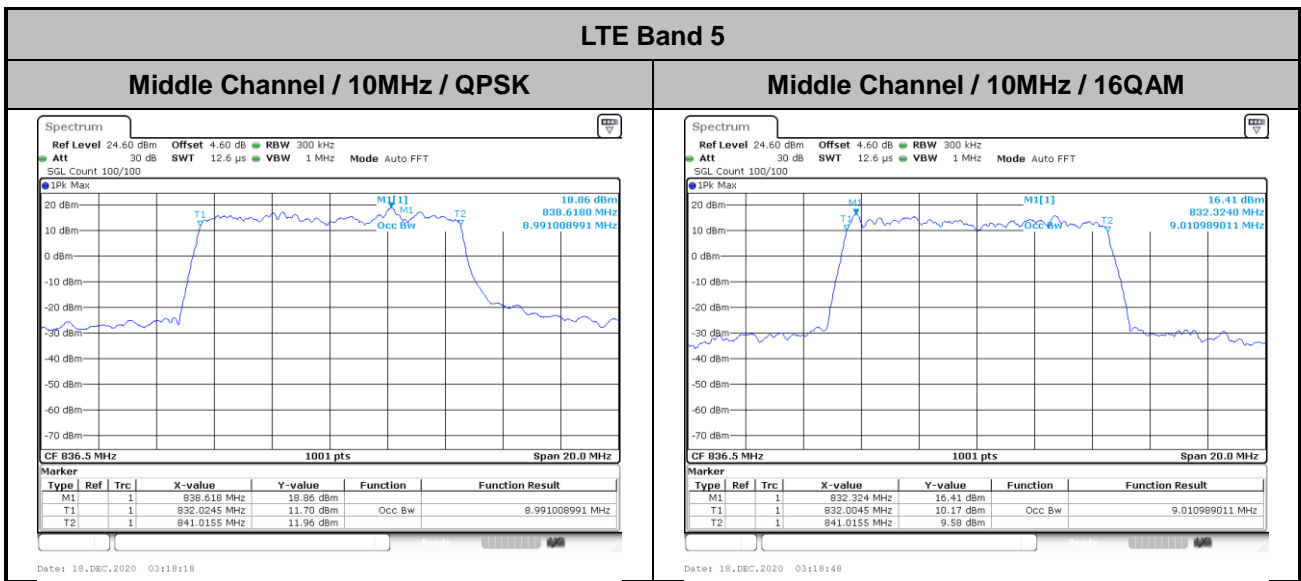
Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	10.03	10.19





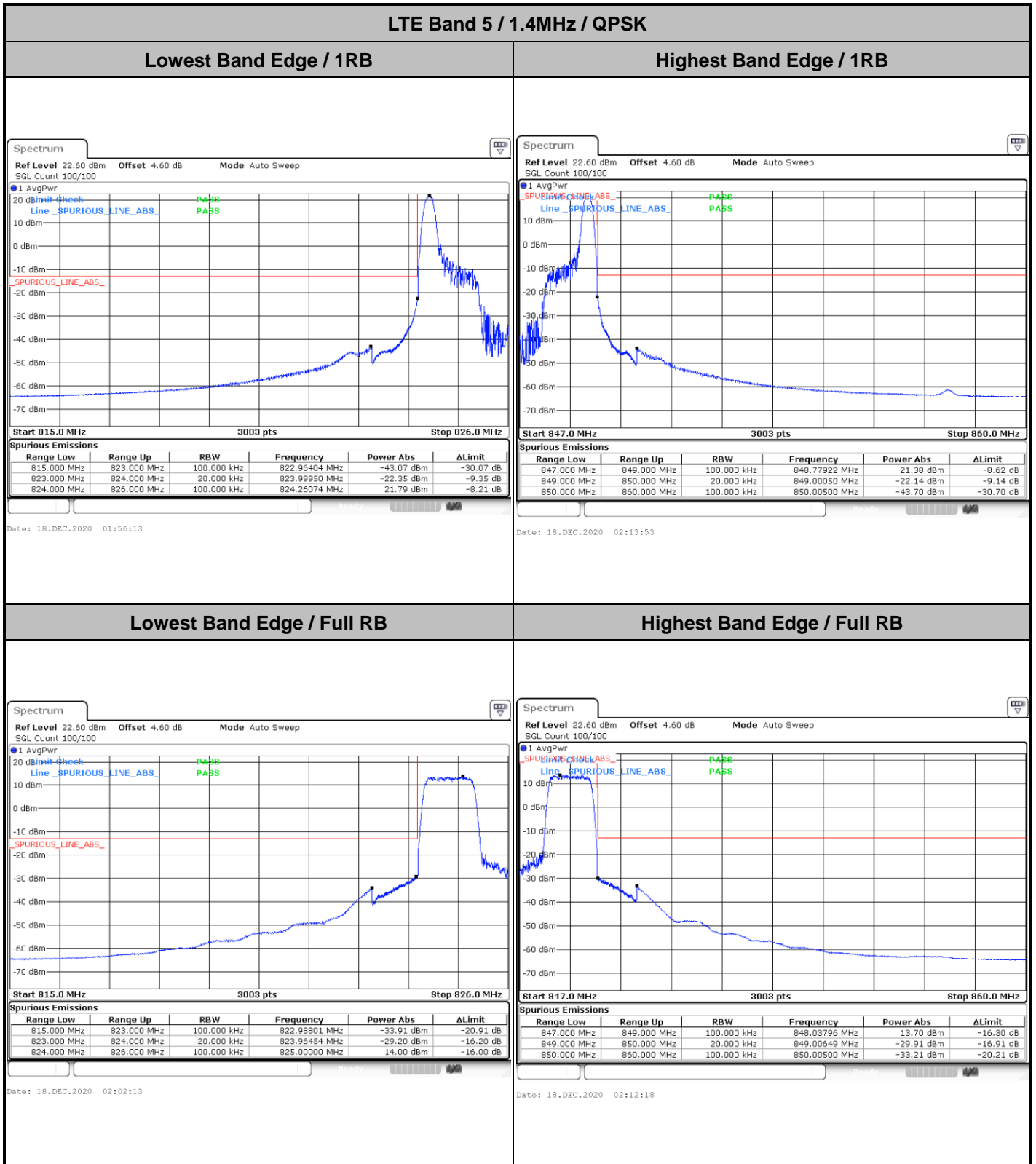
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.01





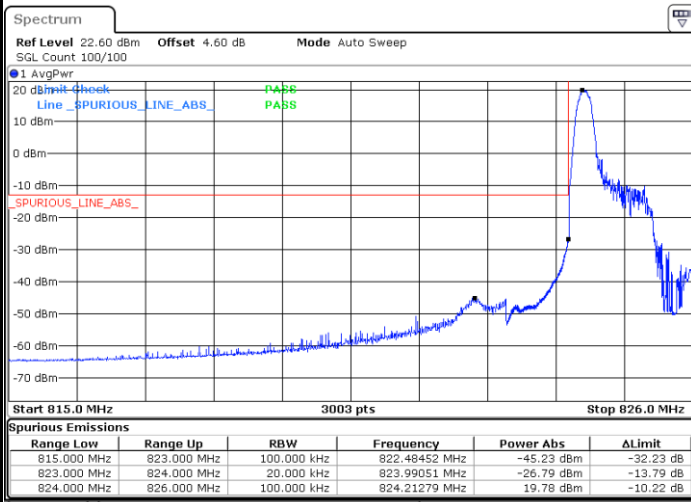
Conducted Band Edge





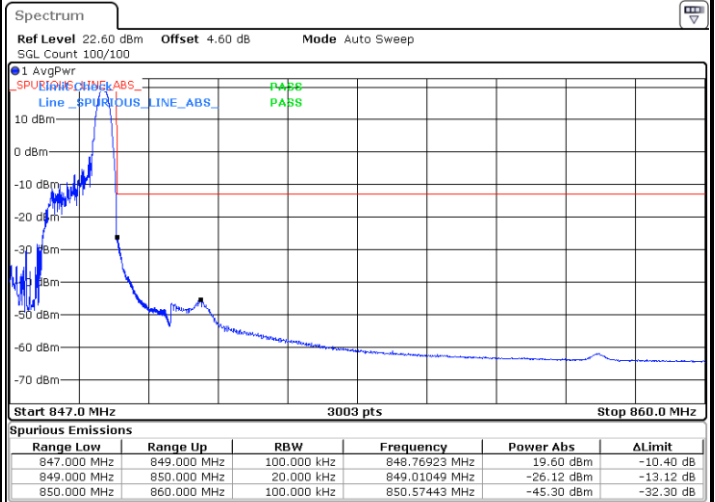
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



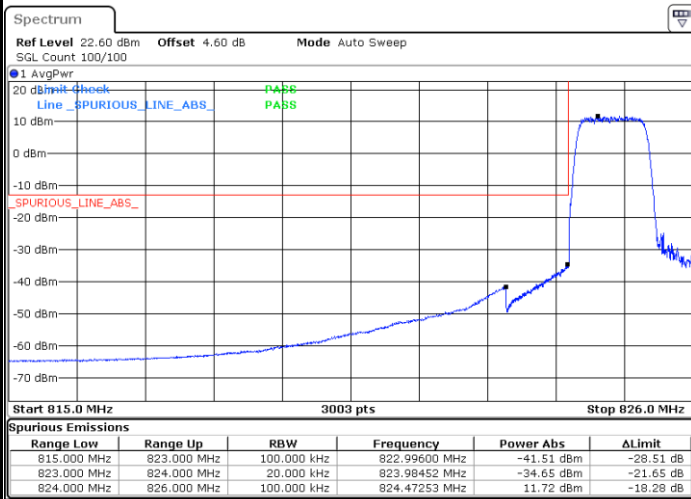
Date: 18.DEC.2020 01:57:56

Highest Band Edge / 1 RB



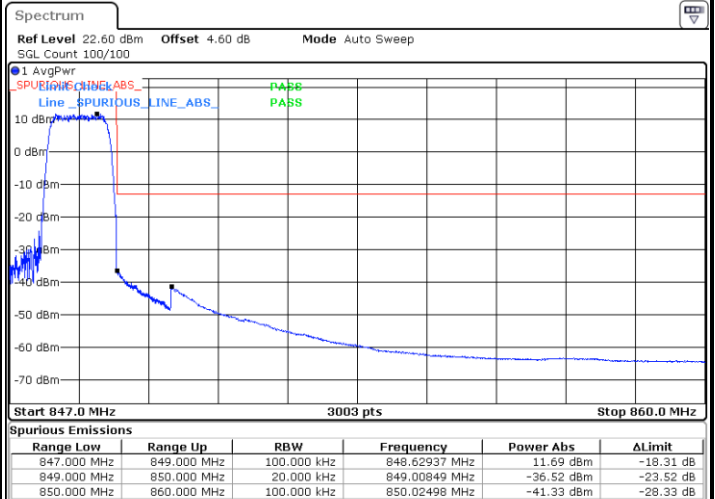
Date: 18.DEC.2020 02:15:43

Lowest Band Edge / Full RB



Date: 18.DEC.2020 02:03:48

Highest Band Edge / Full RB



Date: 18.DEC.2020 02:10:40



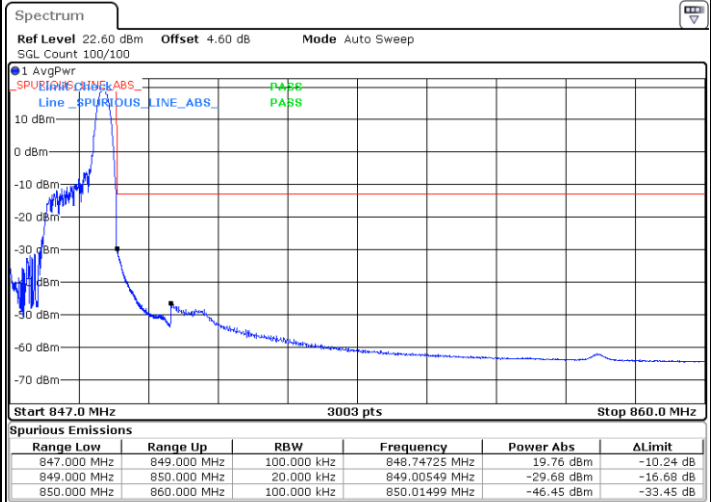
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



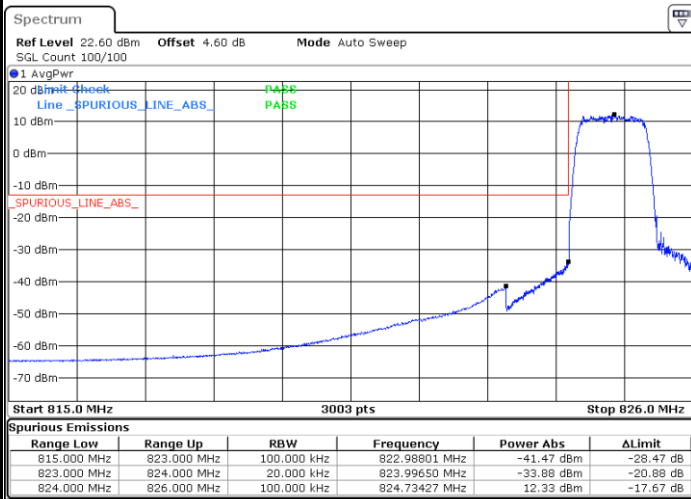
Date: 18.DEC.2020 01:59:40

Highest Band Edge / 1 RB



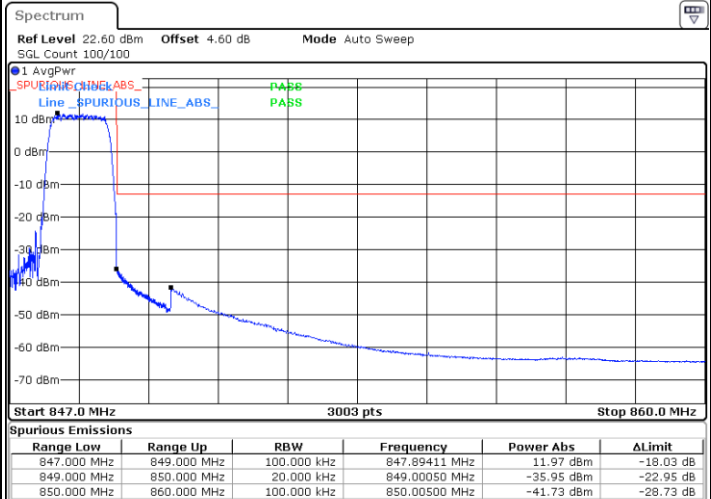
Date: 18.DEC.2020 02:18:04

Lowest Band Edge / Full RB



Date: 18.DEC.2020 02:07:12

Highest Band Edge / Full RB

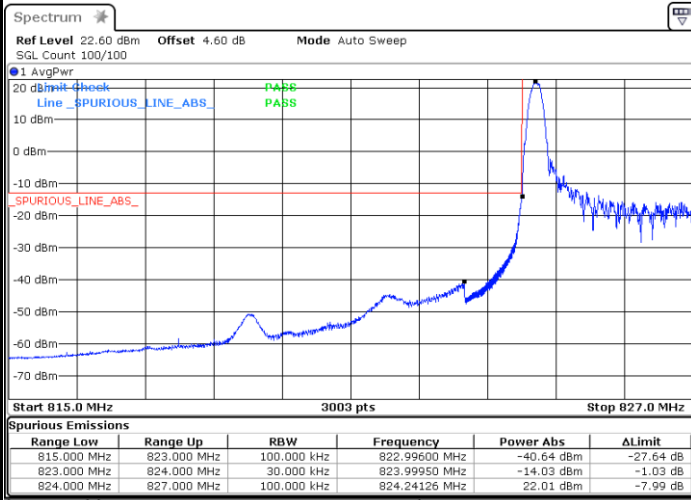


Date: 18.DEC.2020 02:08:50



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



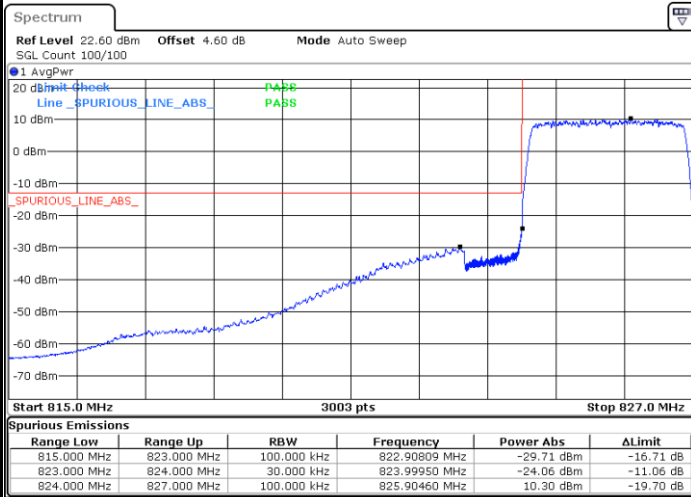
Date: 18.DEC.2020 02:24:08

Highest Band Edge / 1 RB



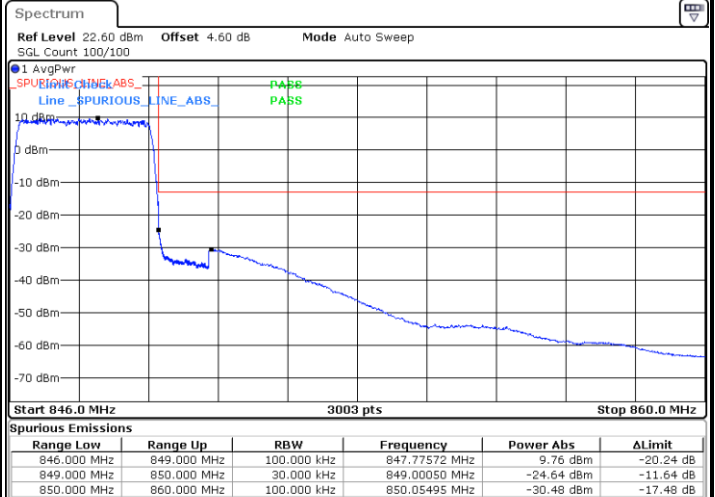
Date: 18.DEC.2020 02:37:39

Lowest Band Edge / Full RB



Date: 18.DEC.2020 02:30:45

Highest Band Edge / Full RB

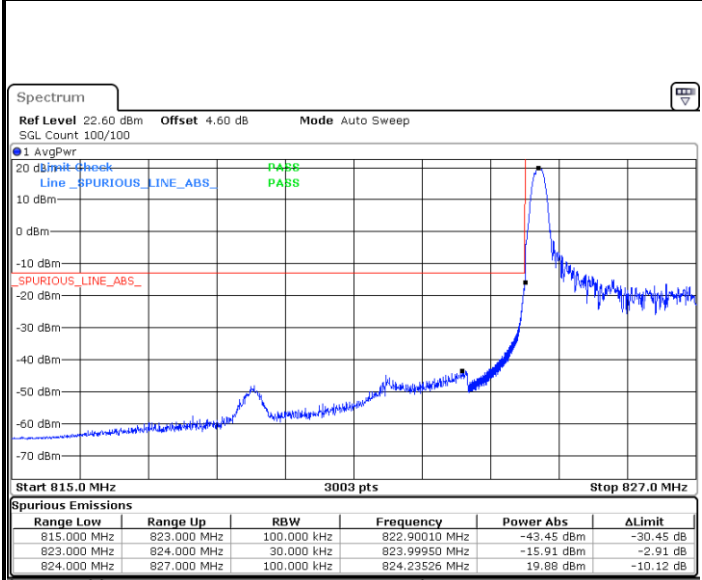


Date: 18.DEC.2020 02:36:17



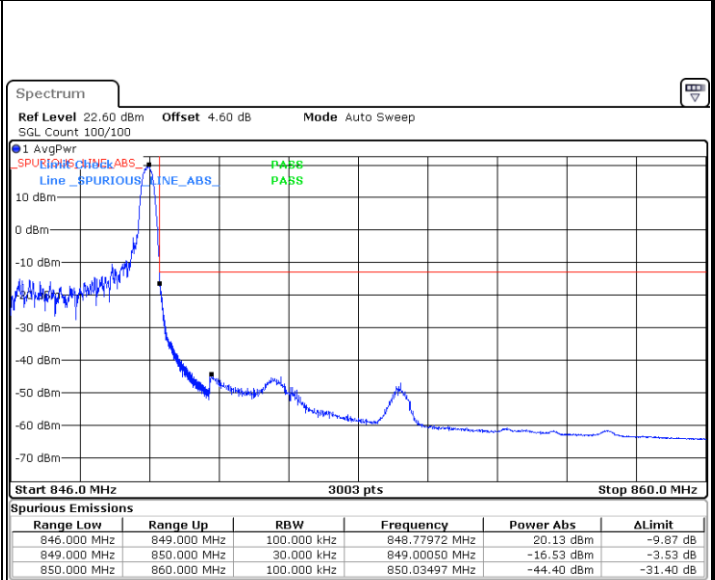
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



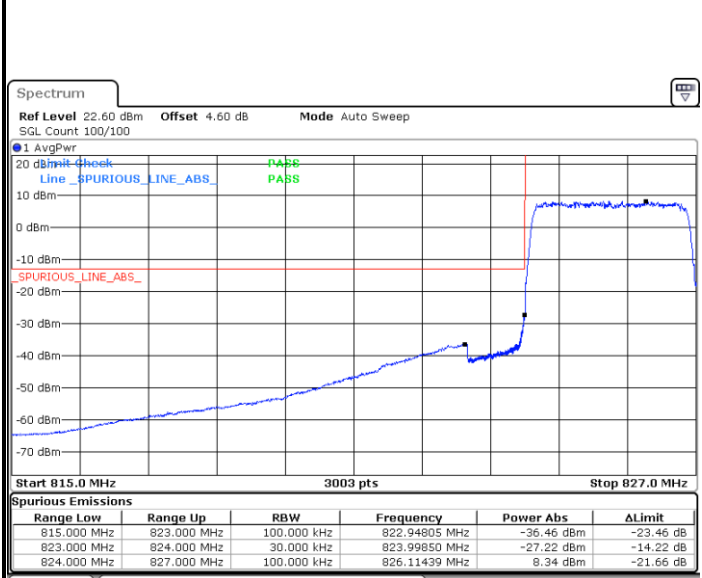
Date: 18.DEC.2020 02:25:24

Highest Band Edge / 1 RB



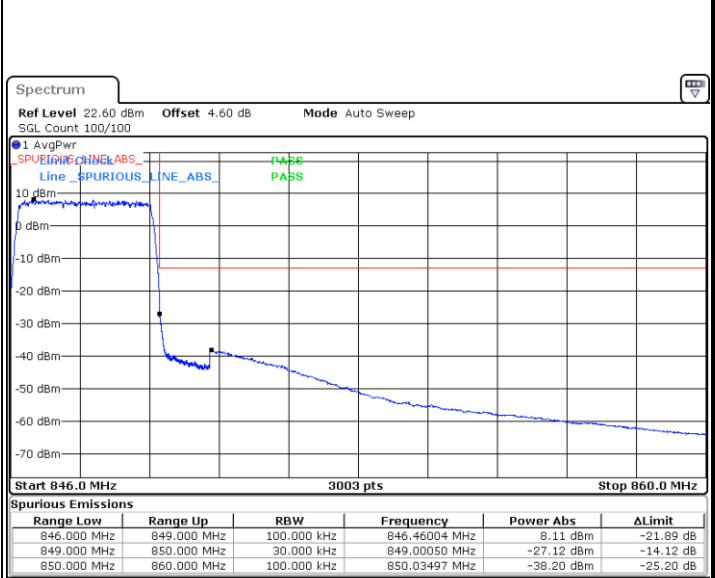
Date: 18.DEC.2020 02:38:38

Lowest Band Edge / Full RB



Date: 18.DEC.2020 02:29:53

Highest Band Edge / Full RB

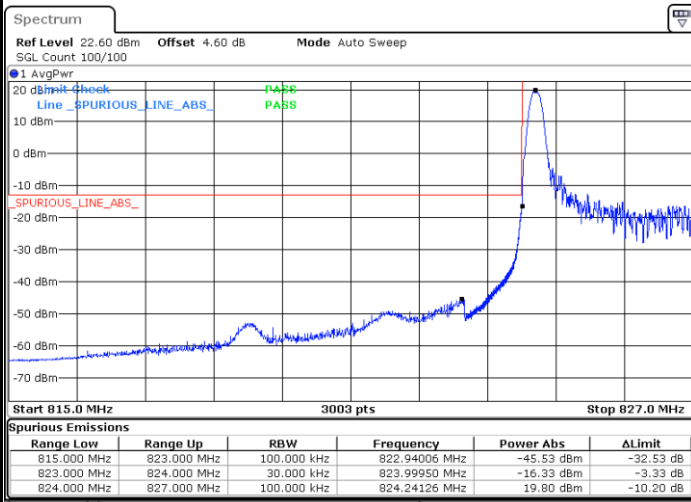


Date: 18.DEC.2020 02:33:55



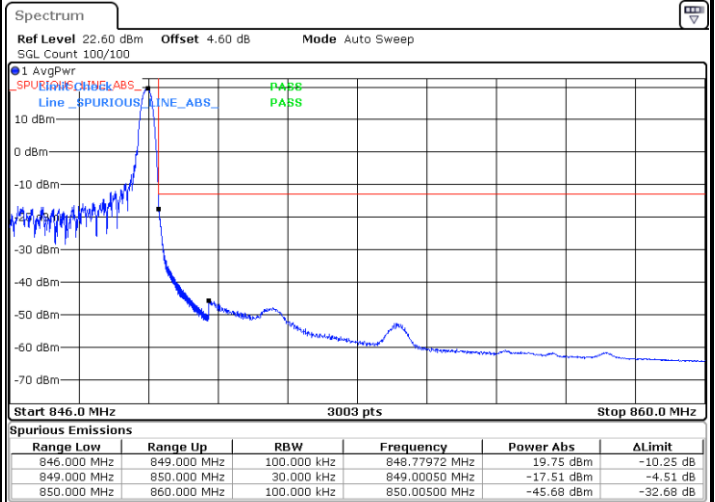
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



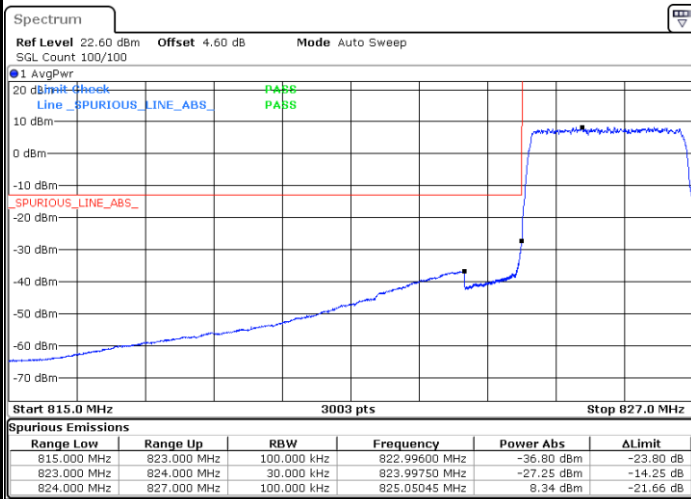
Date: 18.DEC.2020 02:26:22

Highest Band Edge / 1 RB



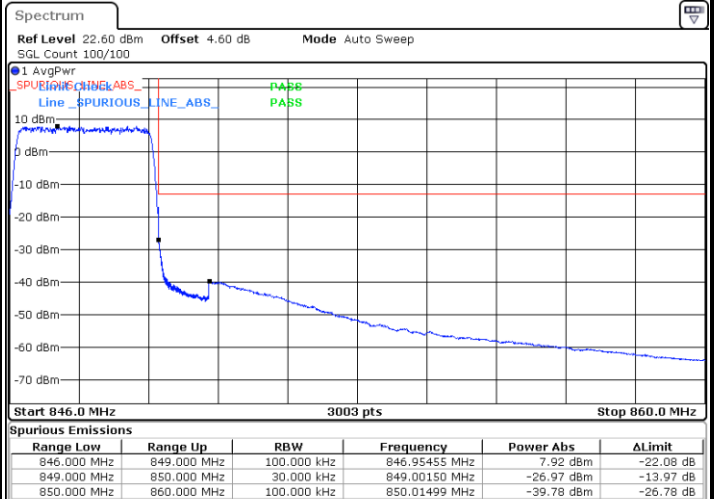
Date: 18.DEC.2020 02:39:38

Lowest Band Edge / Full RB



Date: 18.DEC.2020 02:31:42

Highest Band Edge / Full RB

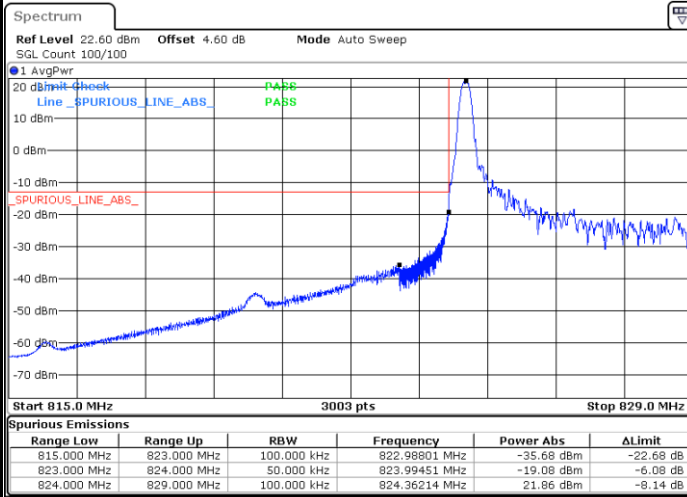


Date: 18.DEC.2020 02:32:48



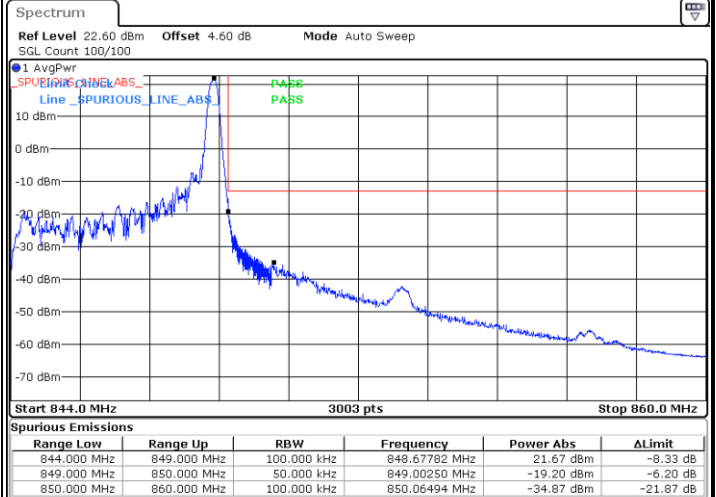
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



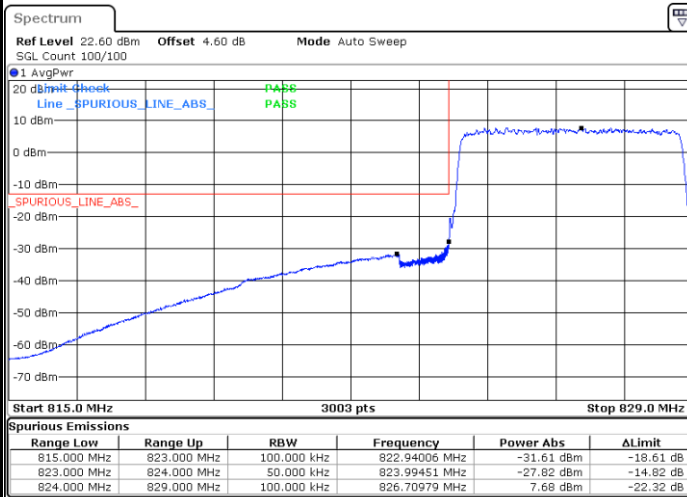
Date: 18.DEC.2020 02:43:04

Highest Band Edge / 1 RB



Date: 18.DEC.2020 02:53:43

Lowest Band Edge / Full RB



Date: 18.DEC.2020 02:48:26

Highest Band Edge / Full RB

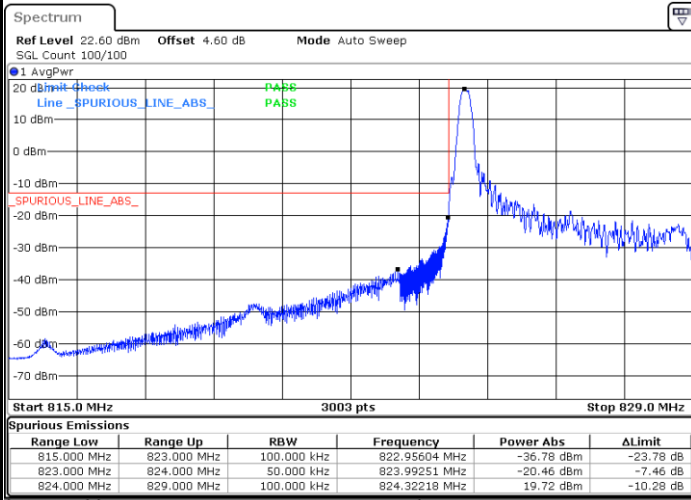


Date: 18.DEC.2020 02:49:19



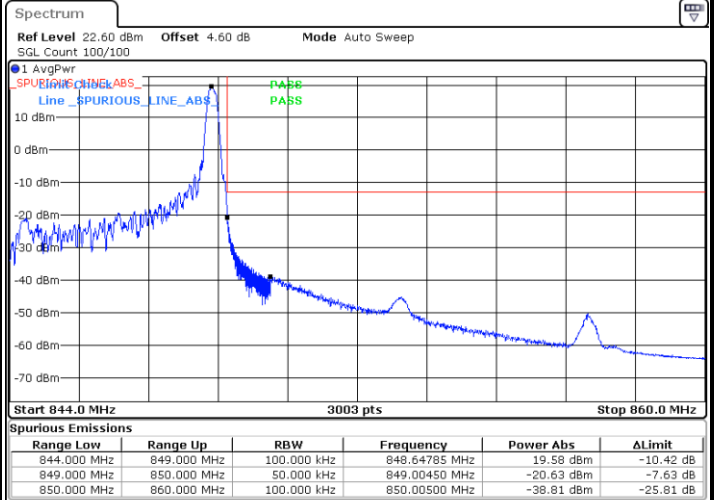
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



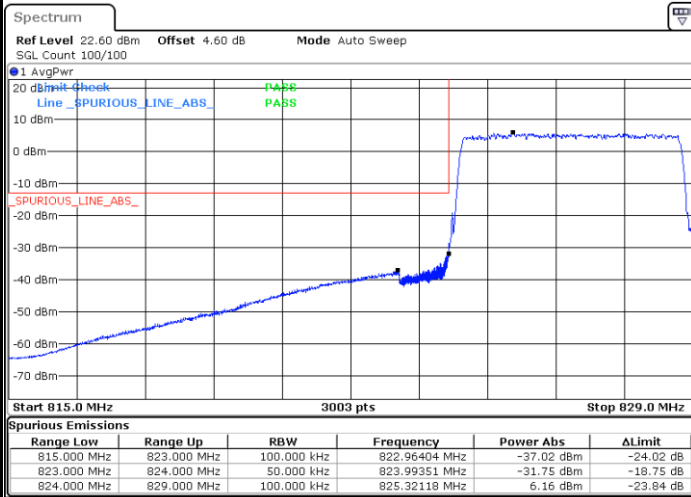
Date: 18.DEC.2020 02:44:18

Highest Band Edge / 1 RB



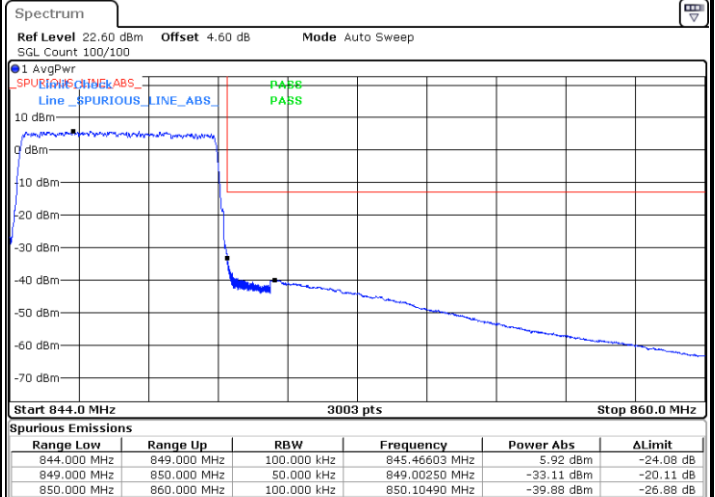
Date: 18.DEC.2020 02:52:33

Lowest Band Edge / Full RB



Date: 18.DEC.2020 02:47:44

Highest Band Edge / Full RB

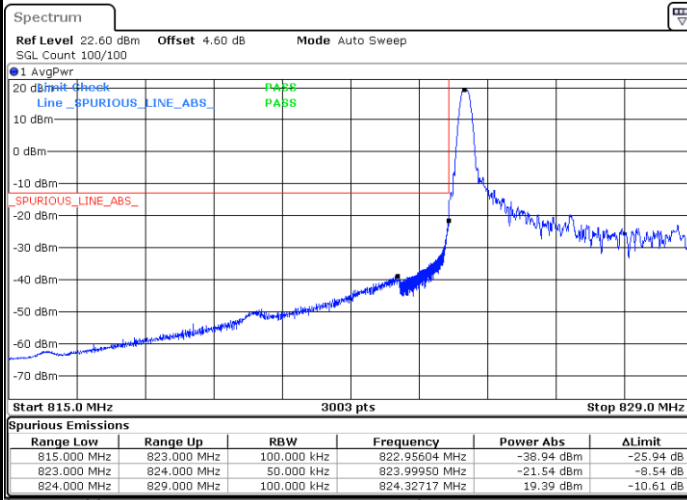


Date: 18.DEC.2020 02:50:03



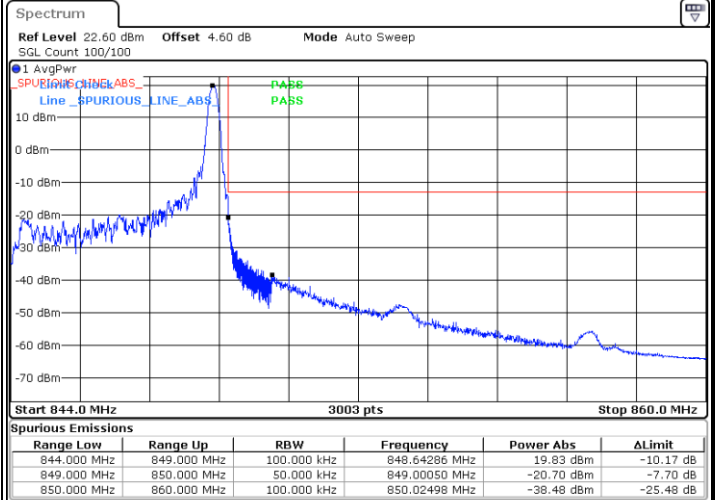
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



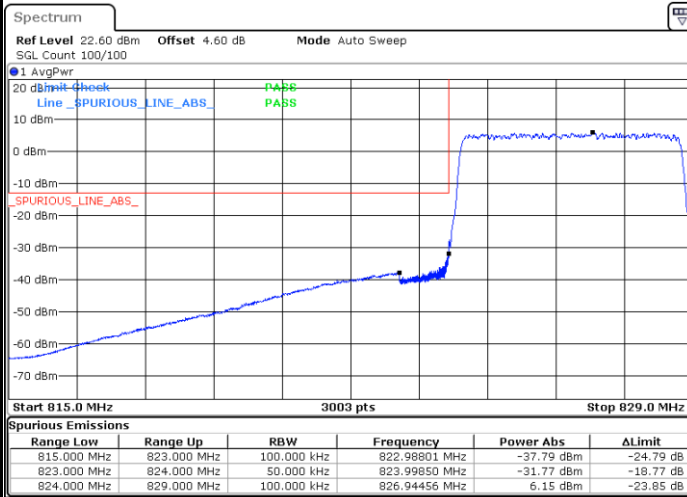
Date: 18.DEC.2020 02:46:10

Highest Band Edge / 1 RB



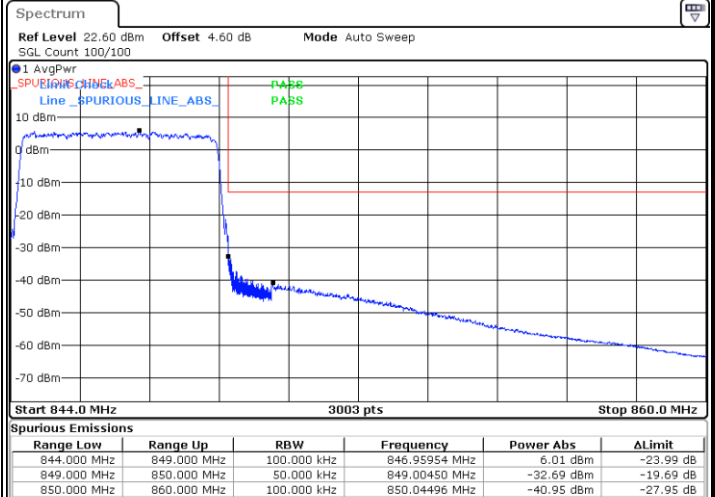
Date: 18.DEC.2020 02:51:46

Lowest Band Edge / Full RB



Date: 18.DEC.2020 02:47:06

Highest Band Edge / Full RB

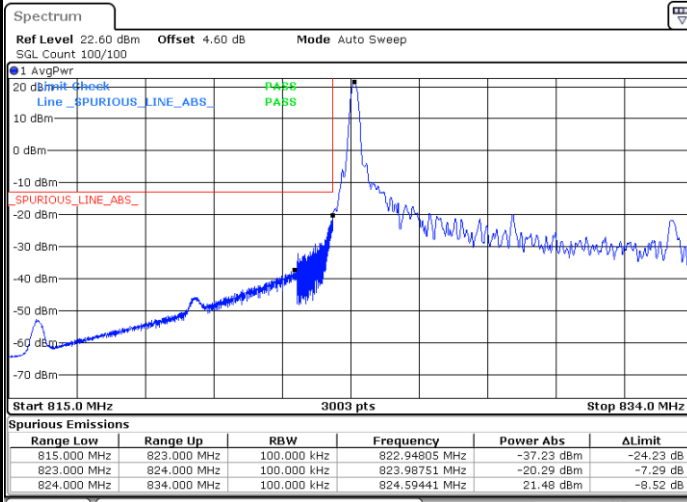


Date: 18.DEC.2020 02:50:45



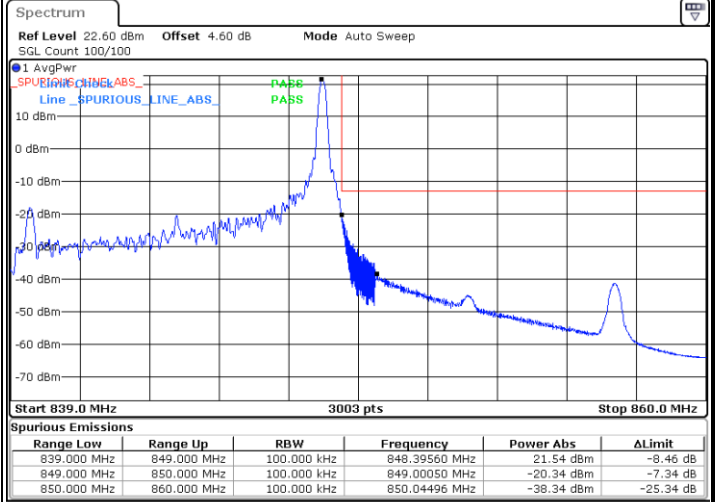
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



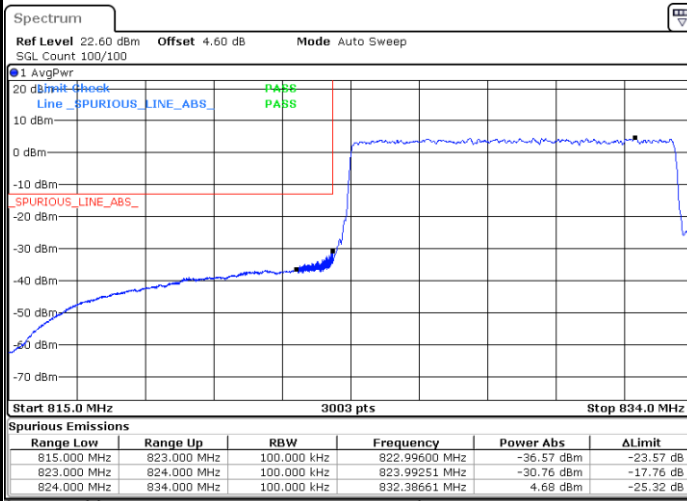
Date: 18.DEC.2020 02:56:54

Highest Band Edge / 1 RB



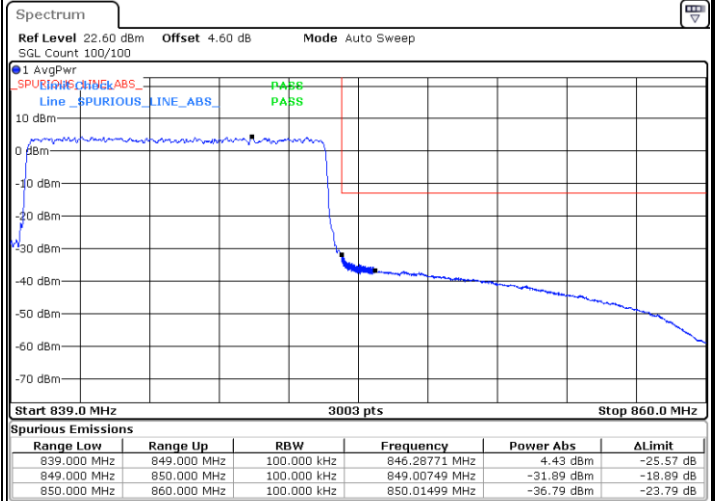
Date: 18.DEC.2020 03:03:29

Lowest Band Edge / Full RB



Date: 18.DEC.2020 03:00:11

Highest Band Edge / Full RB

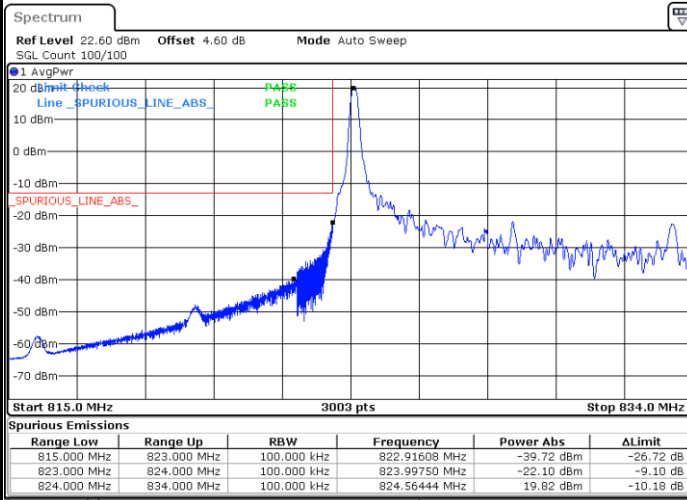


Date: 18.DEC.2020 03:06:47



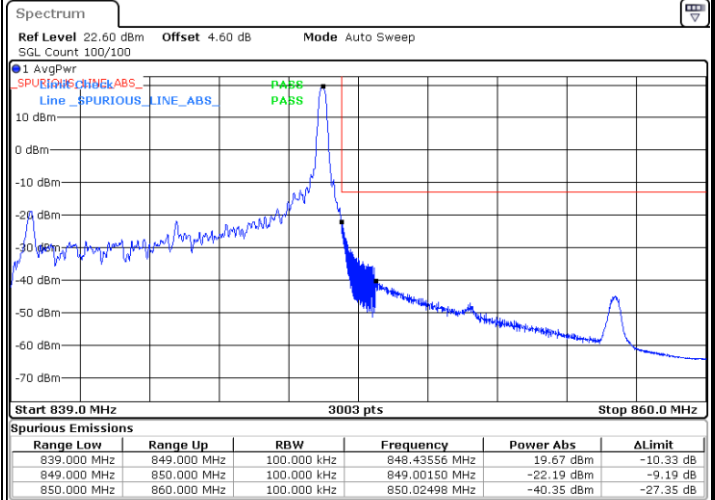
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



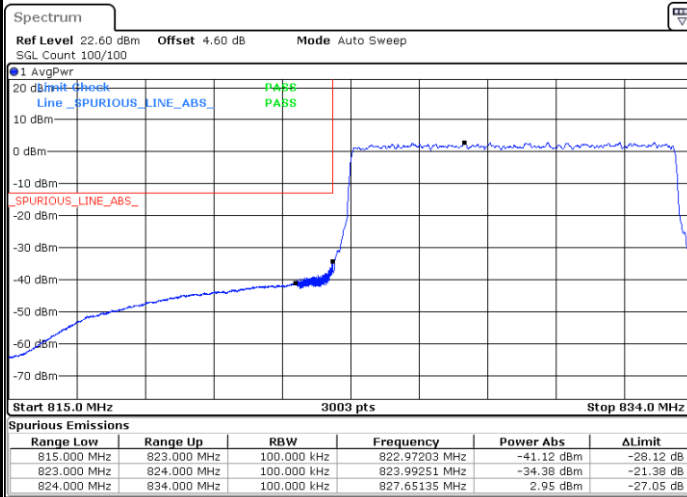
Date: 18.DEC.2020 02:58:32

Highest Band Edge / 1 RB



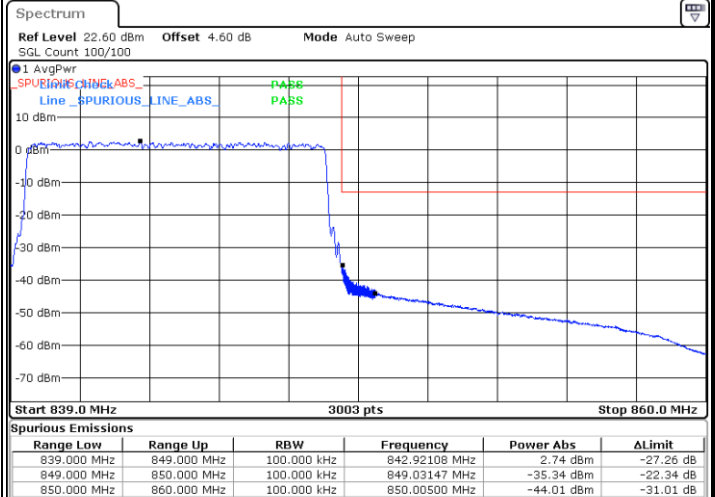
Date: 18.DEC.2020 03:05:08

Lowest Band Edge / Full RB



Date: 18.DEC.2020 03:01:50

Highest Band Edge / Full RB

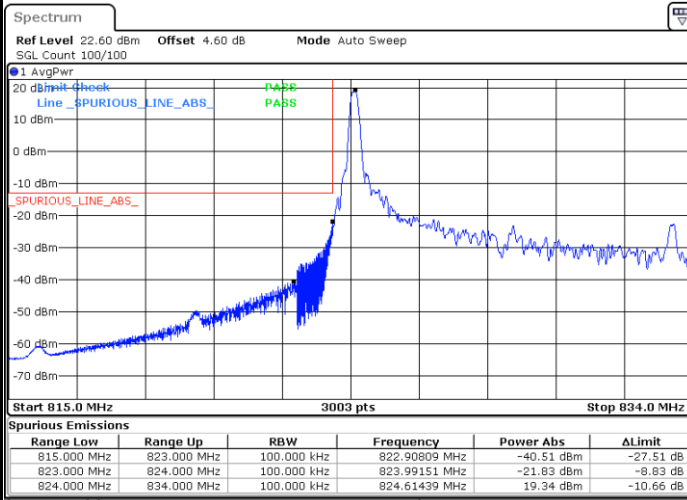


Date: 18.DEC.2020 03:08:25



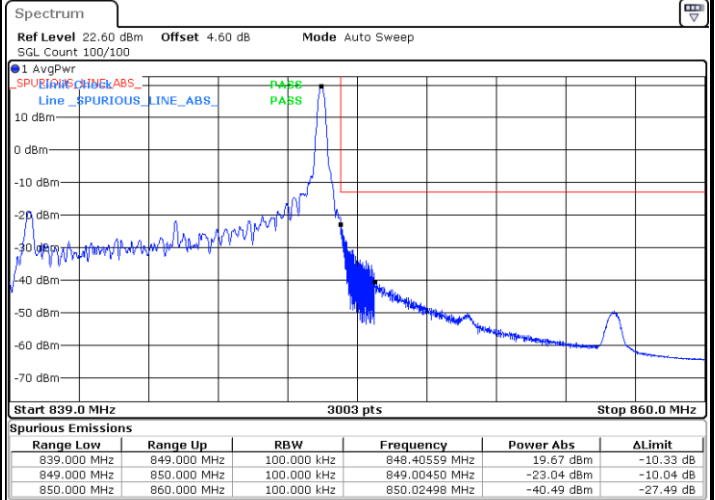
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



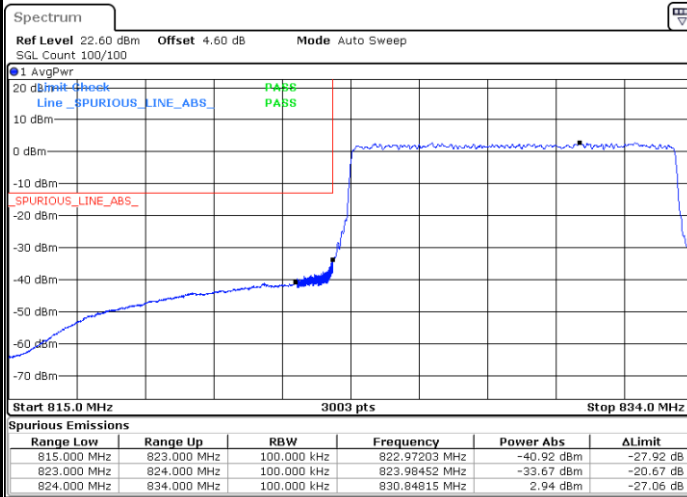
Date: 18.DEC.2020 03:10:04

Highest Band Edge / 1 RB



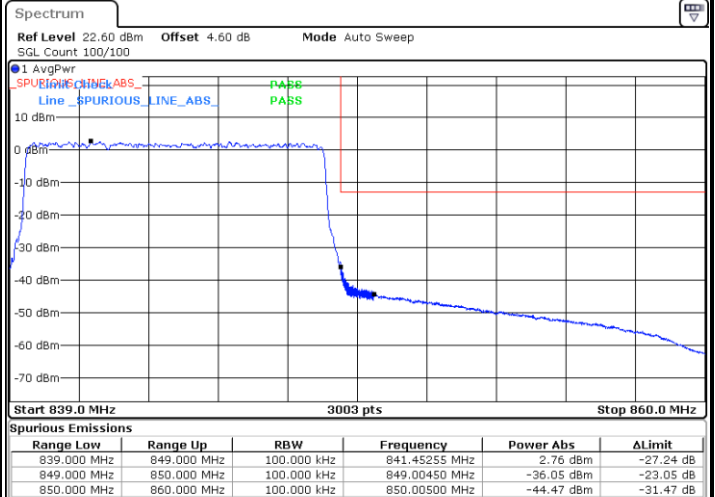
Date: 18.DEC.2020 03:13:22

Lowest Band Edge / Full RB



Date: 18.DEC.2020 03:11:43

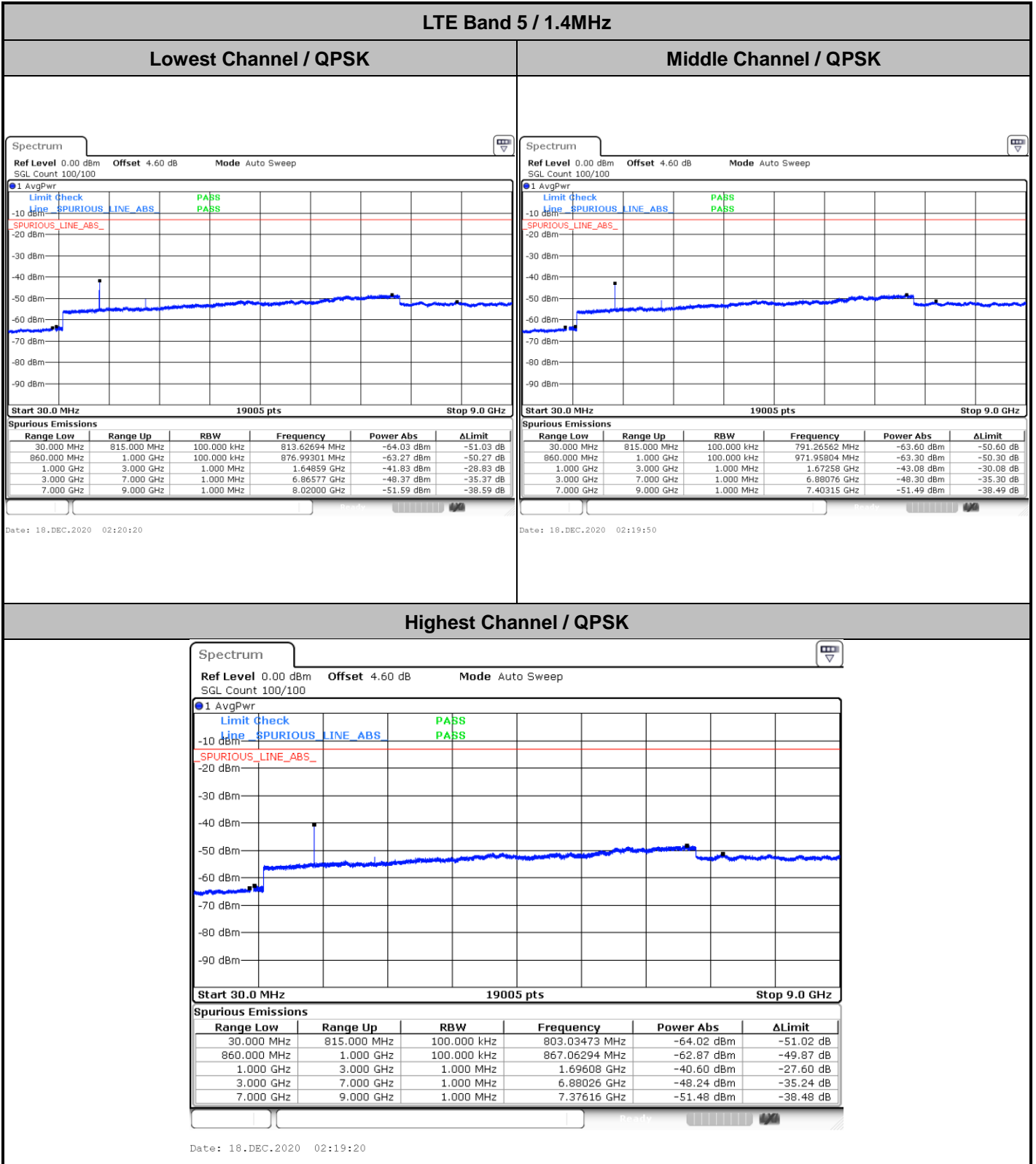
Highest Band Edge / Full RB



Date: 18.DEC.2020 03:15:00



Conducted Spurious Emission

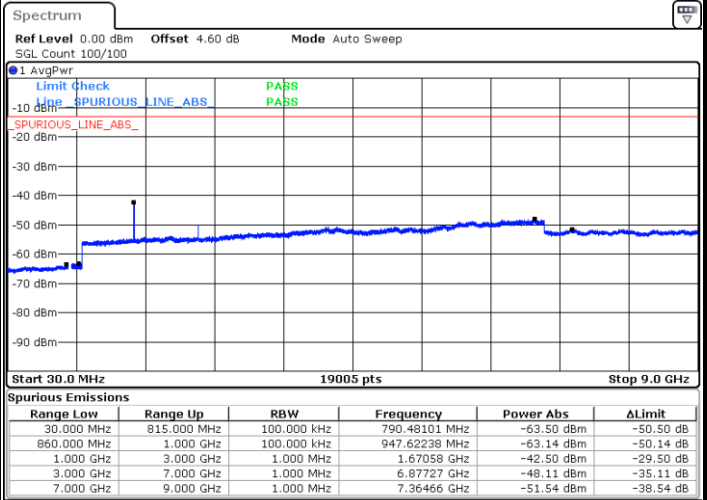
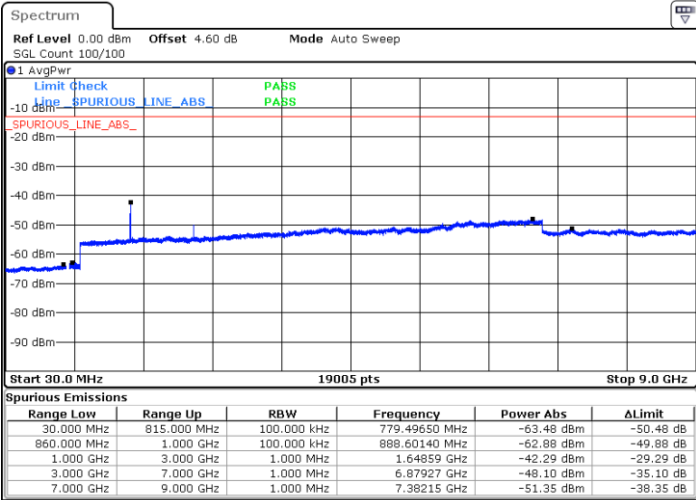




LTE Band 5 / 3MHz

Lowest Channel / QPSK

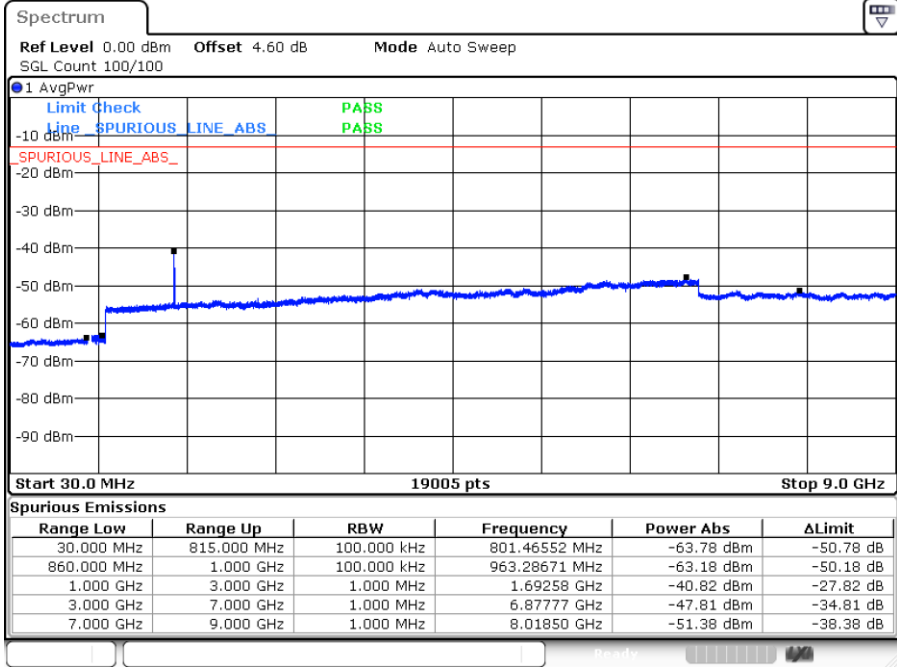
Middle Channel / QPSK



Date: 18.DEC.2020 02:21:21

Date: 18.DEC.2020 02:40:39

Highest Channel / QPSK

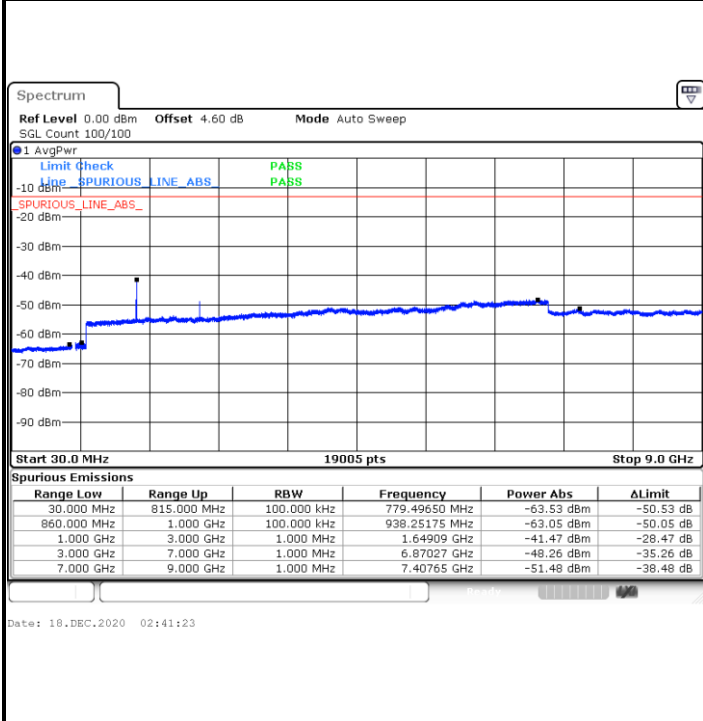


Date: 18.DEC.2020 02:40:12

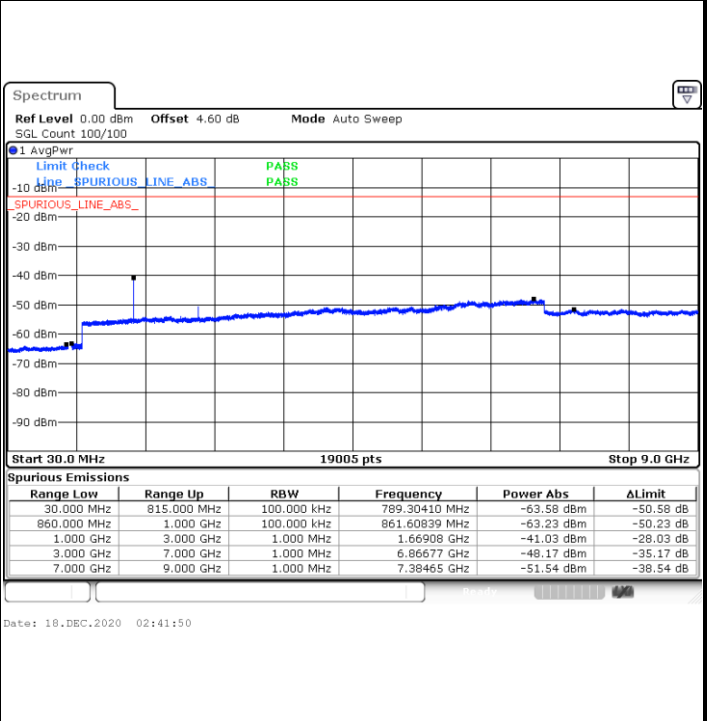


LTE Band 5 / 5MHz

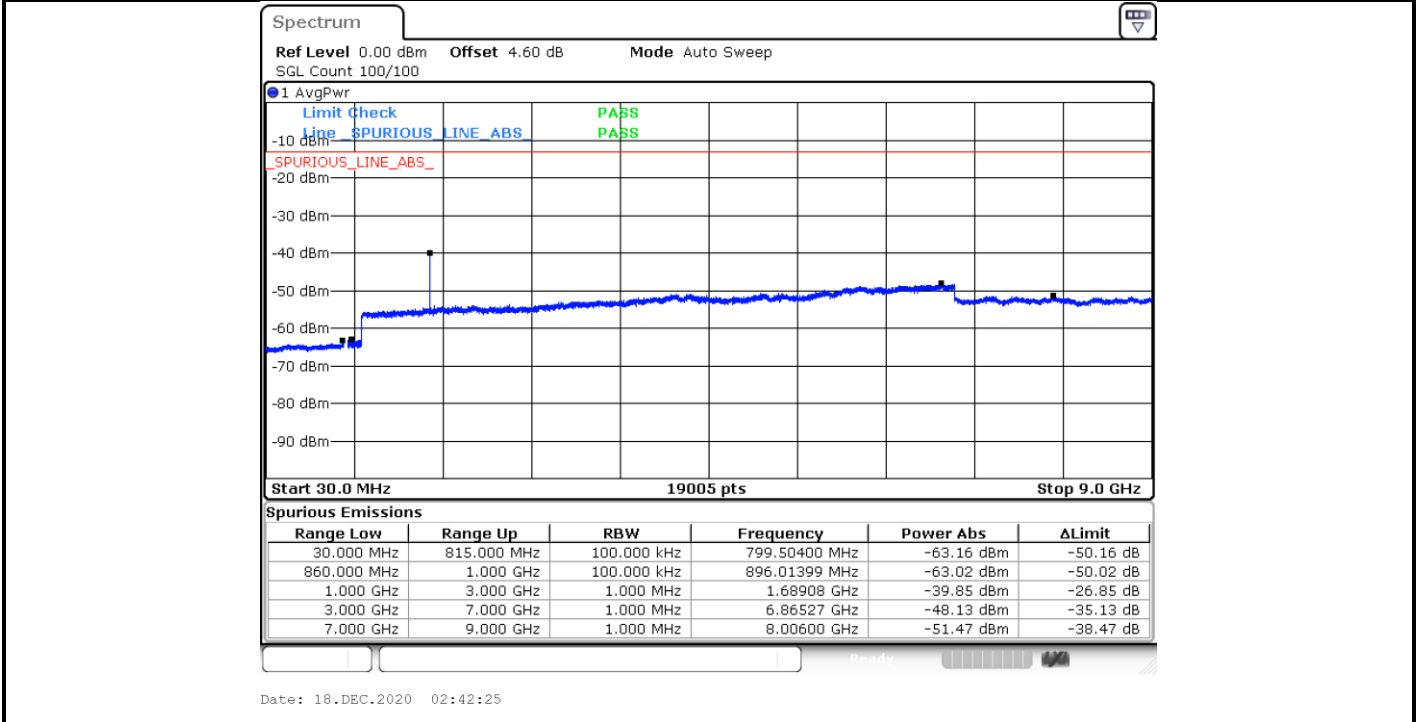
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

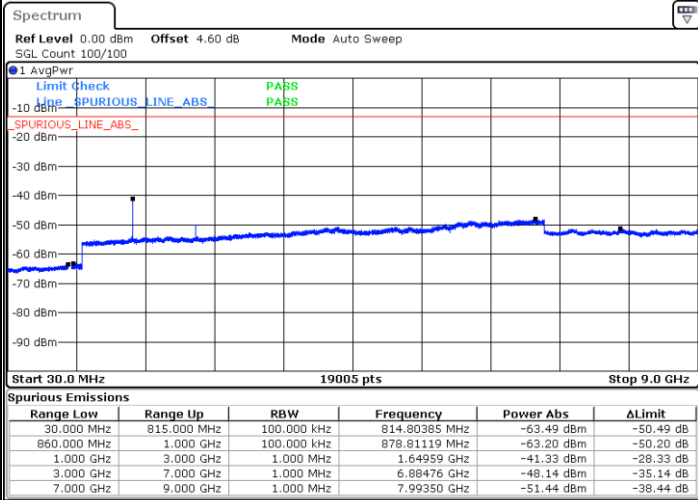




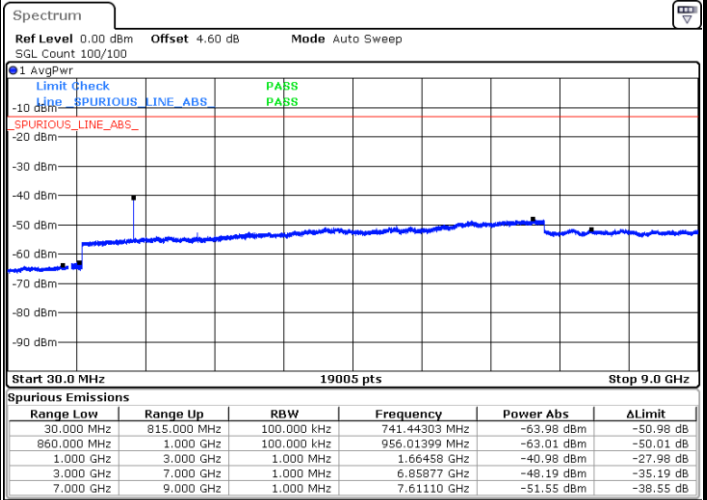
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

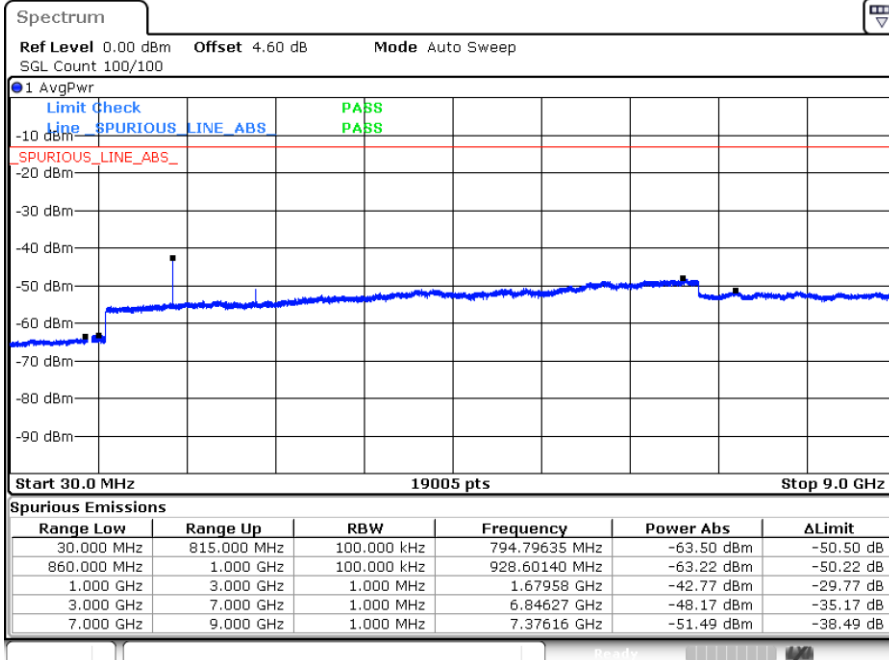


Date: 18.DEC.2020 03:16:26



Date: 18.DEC.2020 03:16:52

Highest Channel / QPSK



Date: 18.DEC.2020 03:17:49



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0030	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

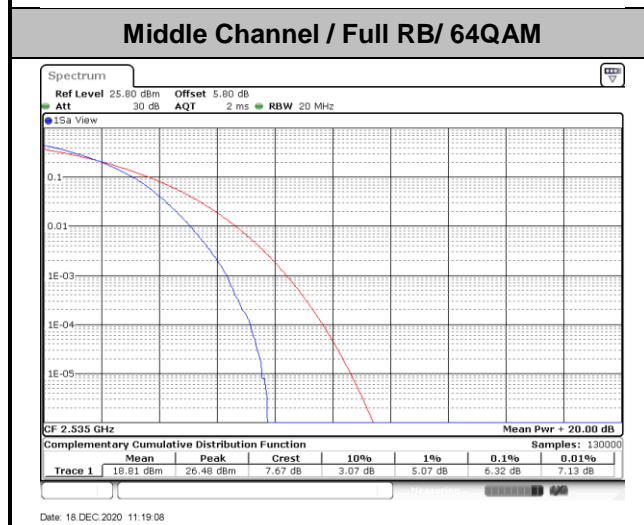
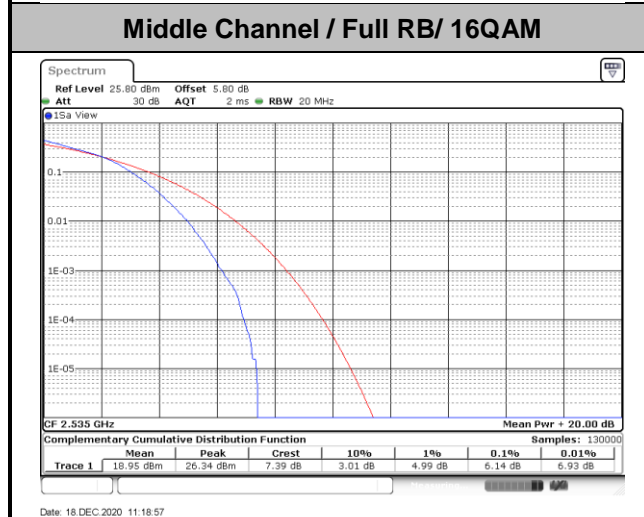
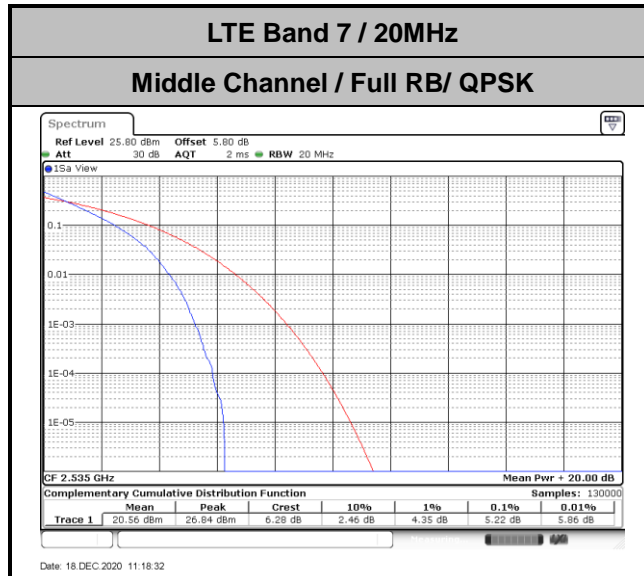
Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.



LTE Band 7

Peak-to-Average Ratio

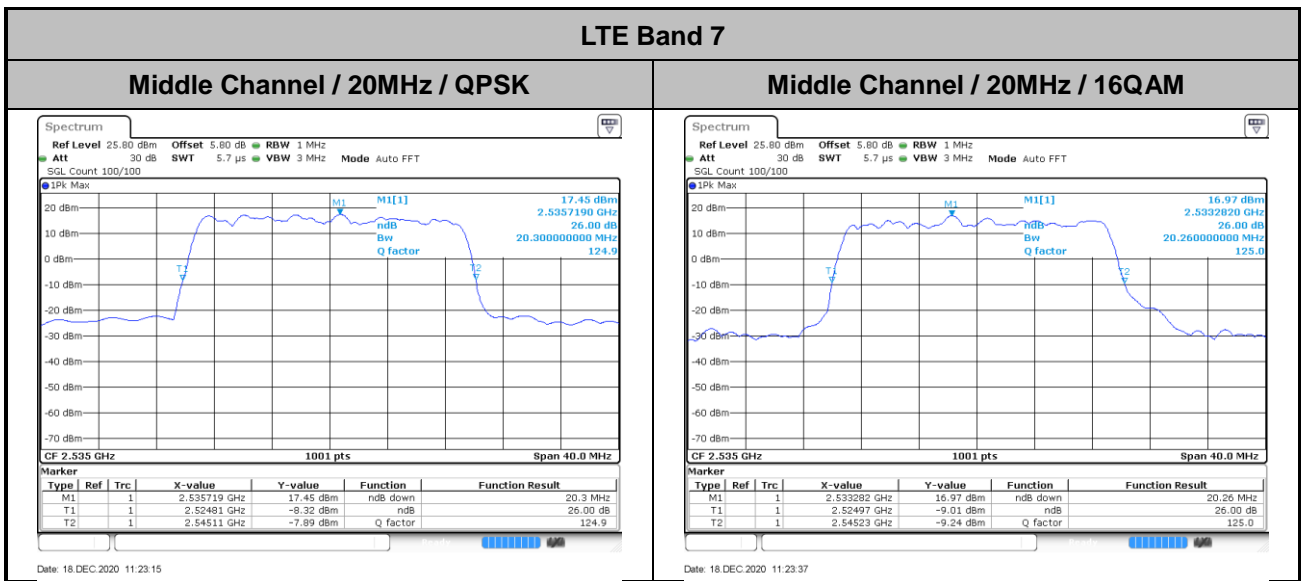
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.22	6.14	6.32	PASS





26dB Bandwidth

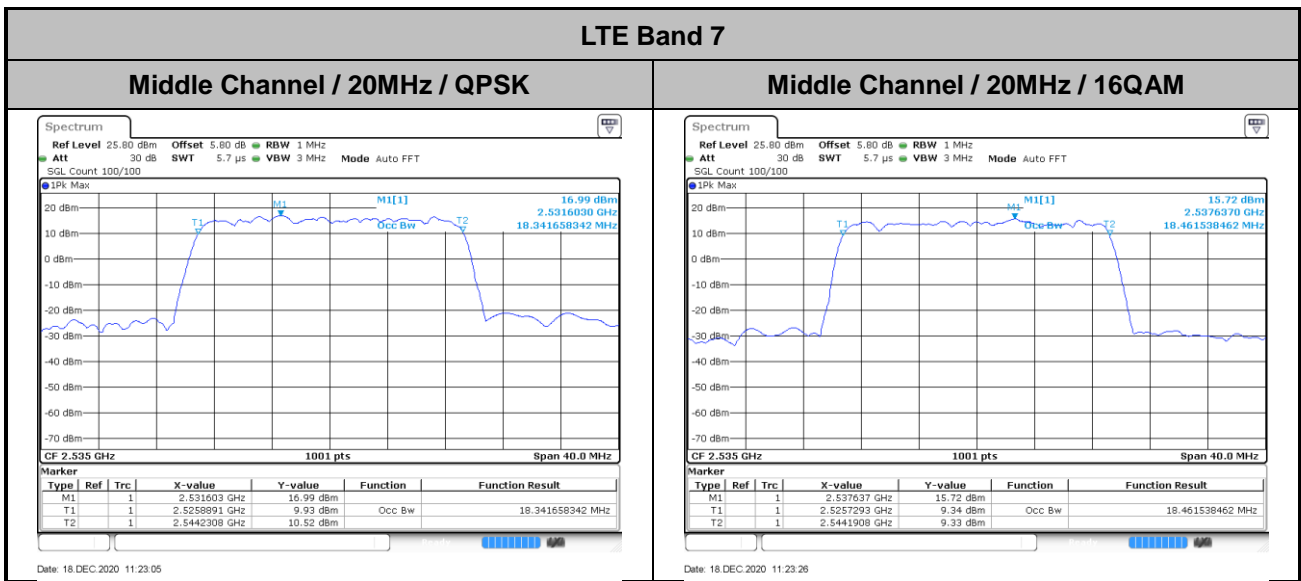
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.30	20.26





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.34	18.46

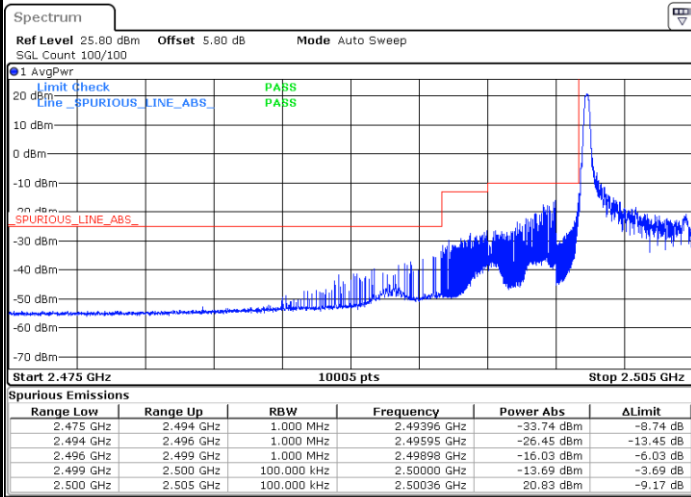




Conducted Band Edge

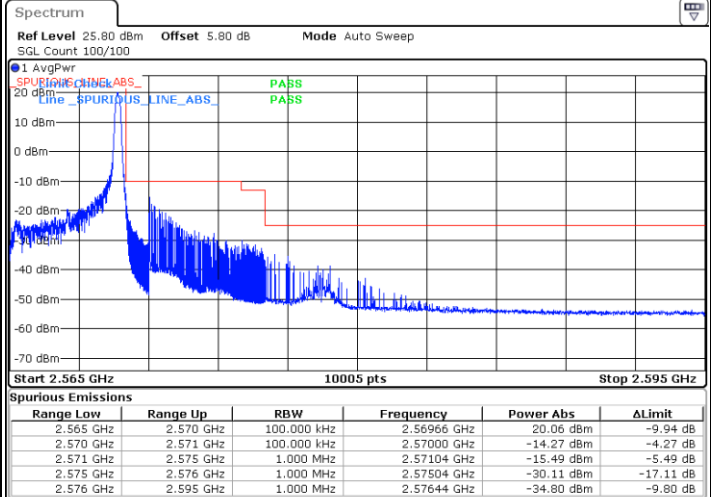
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



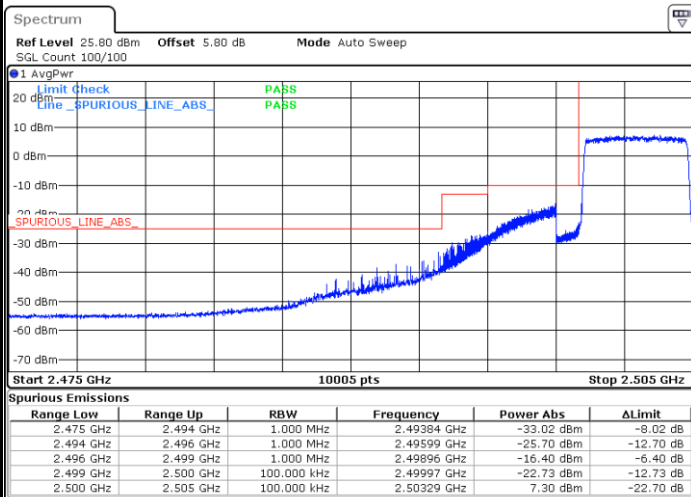
Date: 18 DEC 2020 09:21:44

Highest Band Edge / 1 RB



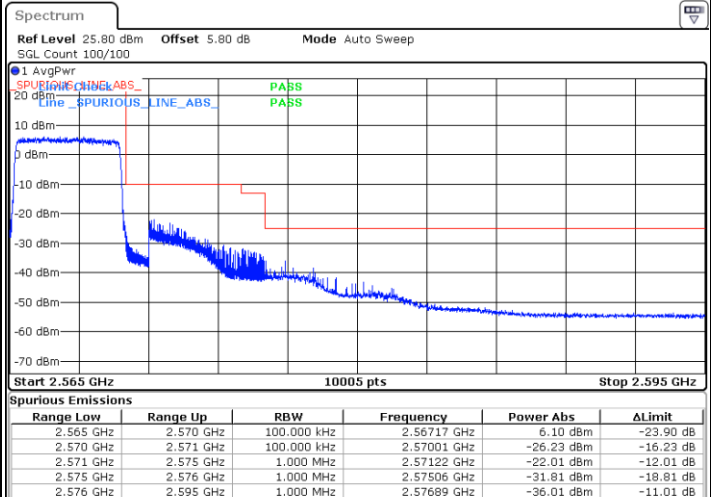
Date: 18 DEC 2020 09:29:49

Lowest Band Edge / Full RB



Date: 18 DEC 2020 09:25:12

Highest Band Edge / Full RB

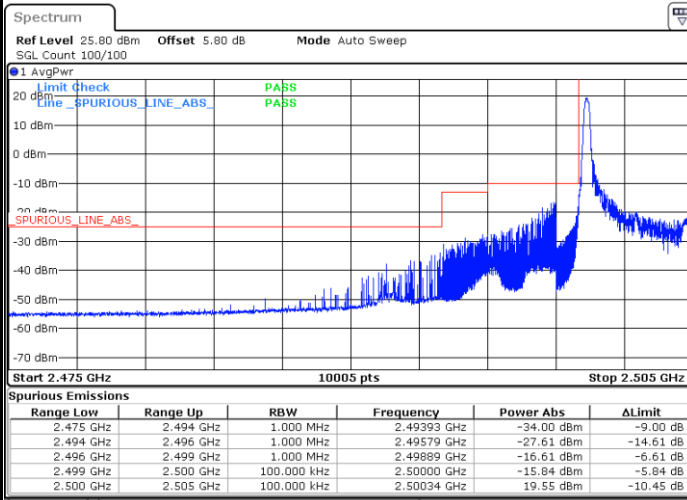


Date: 18 DEC 2020 09:26:21



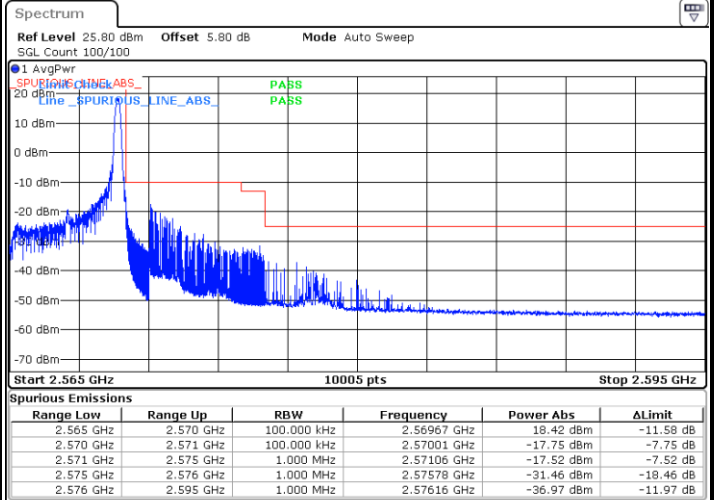
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



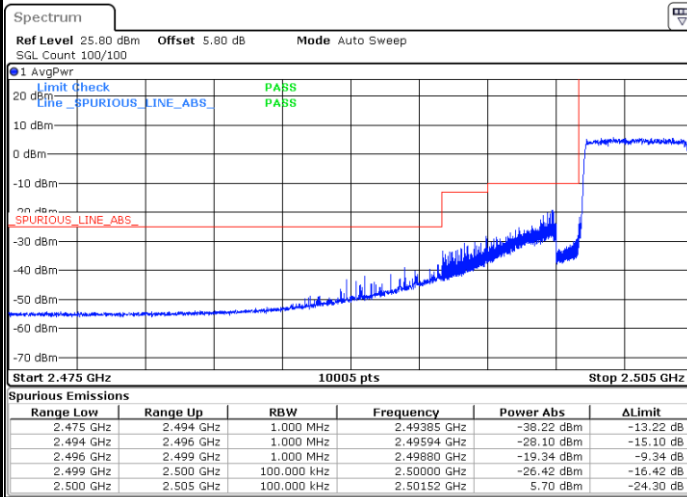
Date: 18 DEC 2020 09:22:54

Highest Band Edge / 1 RB



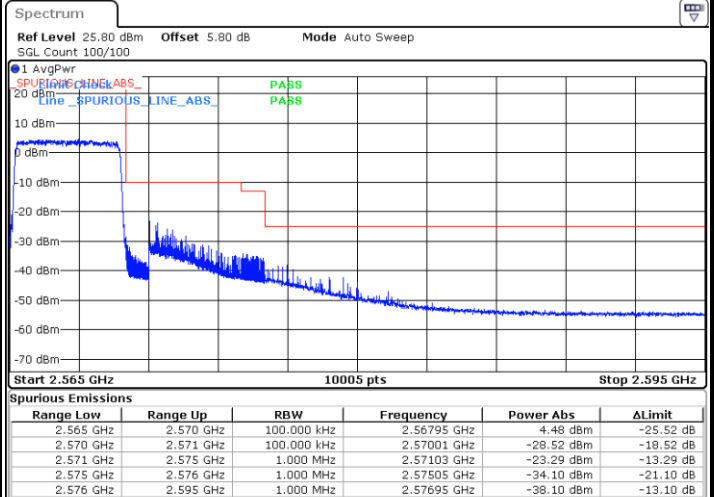
Date: 18 DEC 2020 09:28:39

Lowest Band Edge / Full RB



Date: 18 DEC 2020 09:24:03

Highest Band Edge / Full RB

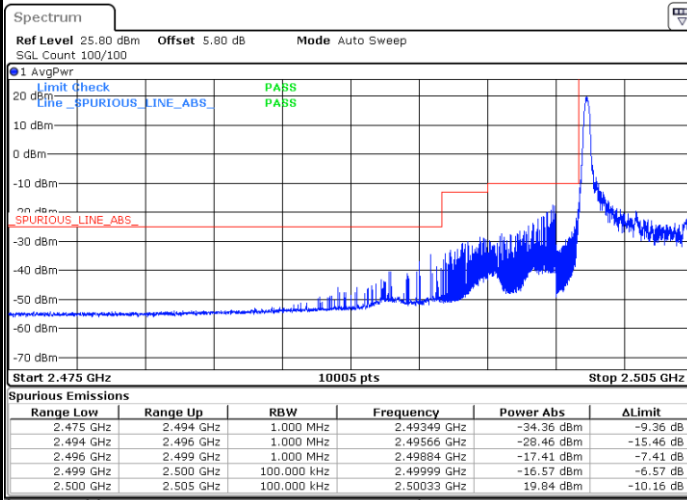


Date: 18 DEC 2020 09:27:30



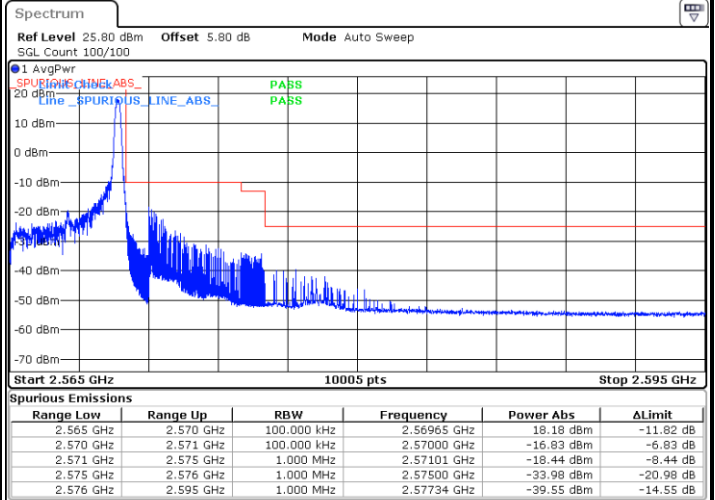
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



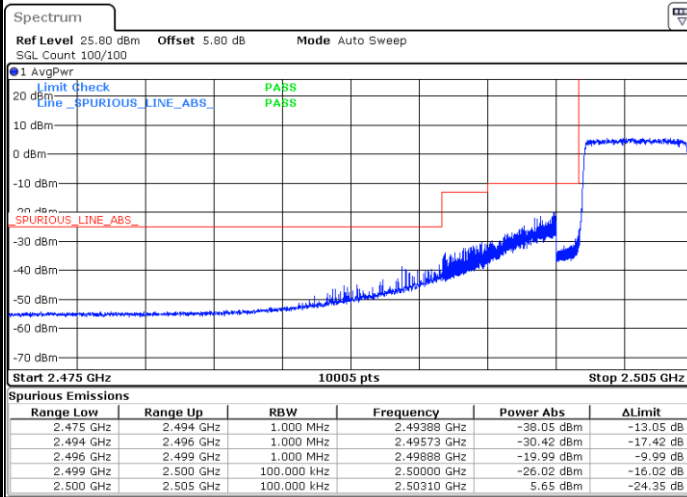
Date: 18 DEC 2020 09:58:36

Highest Band Edge / 1 RB



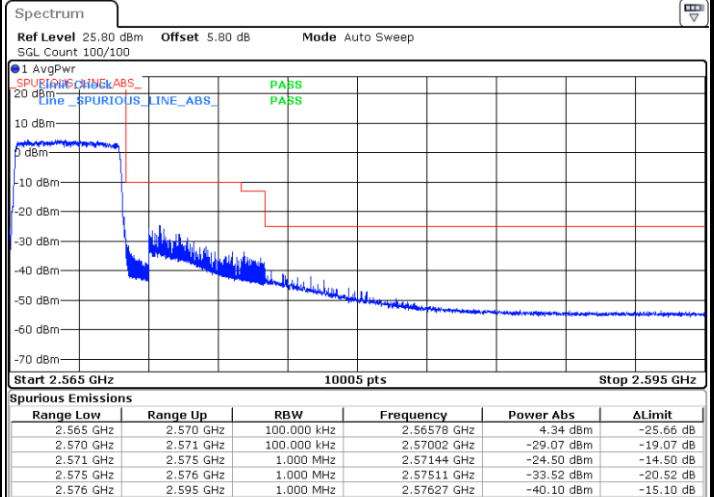
Date: 18 DEC 2020 10:00:54

Lowest Band Edge / Full RB



Date: 18 DEC 2020 09:59:45

Highest Band Edge / Full RB



Date: 18 DEC 2020 10:02:04