

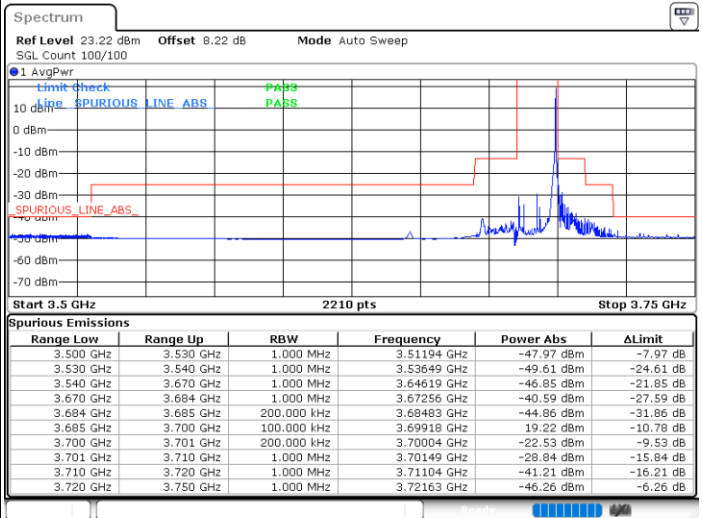
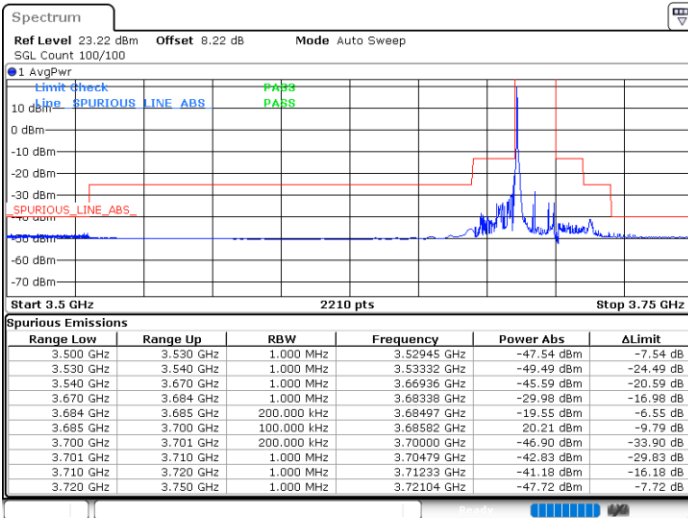


LTE Band 48 / 15MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

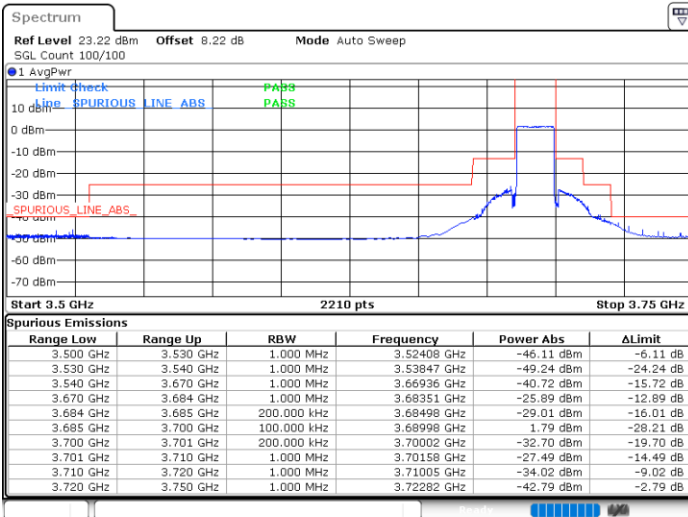


Date: 29.DEC.2021 21:00:38

Date: 29.DEC.2021 21:21:35

Highest Channel / FullIRB

N/A



Date: 29.DEC.2021 20:44:26

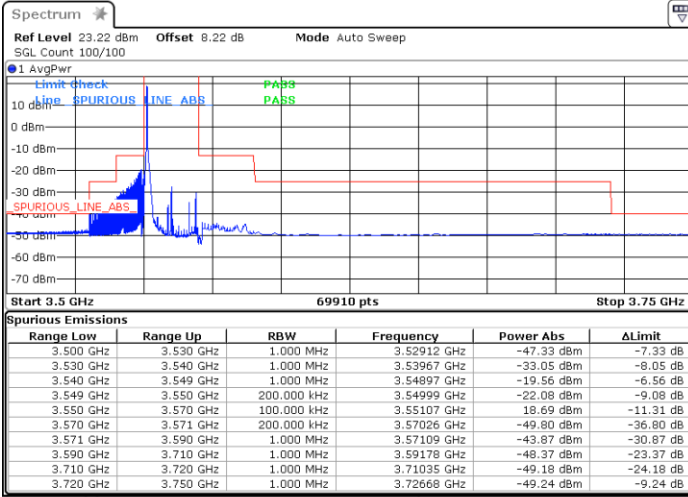


LTE Band 48 / 20MHz

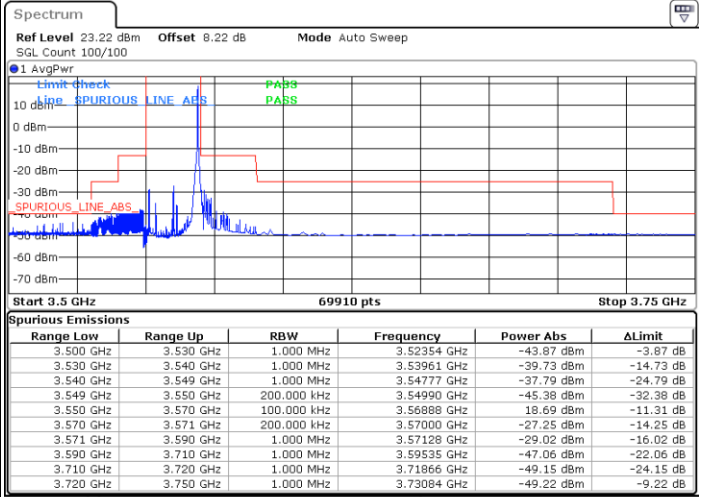
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



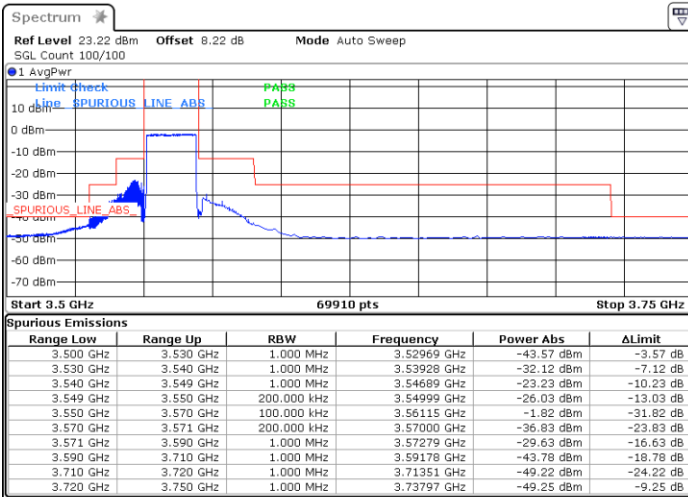
Date: 5.JAN.2022 16:45:15



Date: 5.JAN.2022 16:55:16

Lowest Channel / FullIRB

N/A



Date: 5.JAN.2022 17:30:41

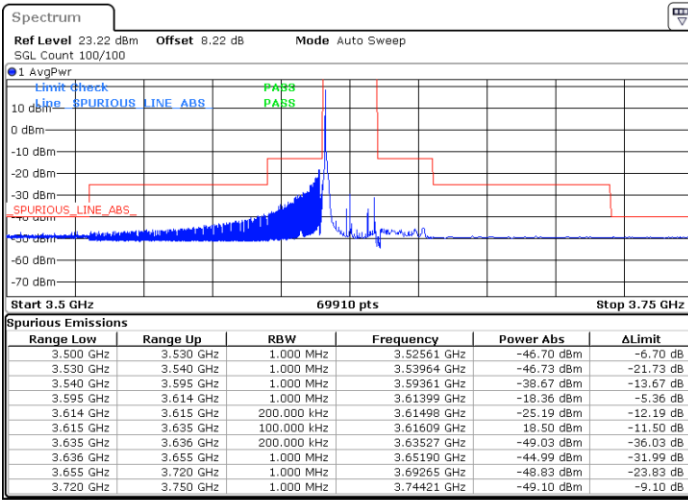


LTE Band 48 / 20MHz

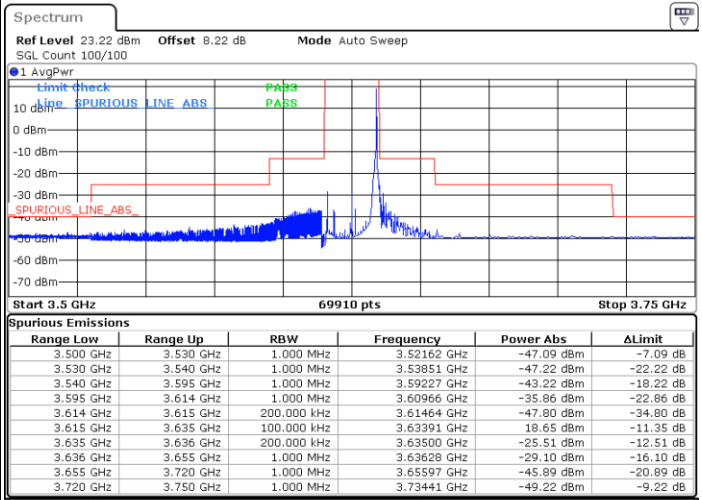
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



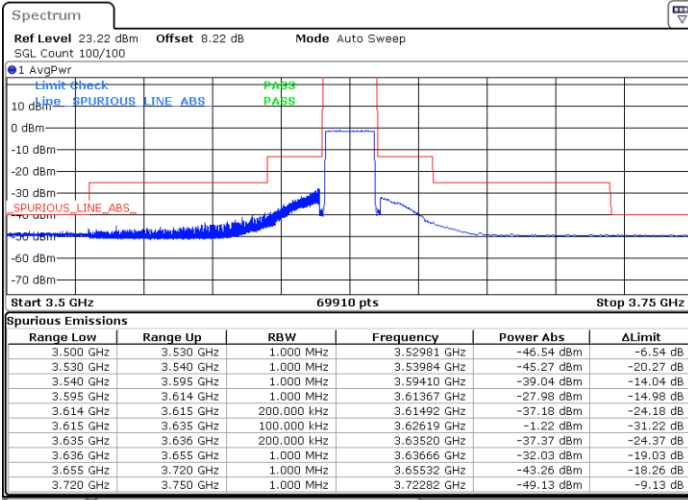
Date: 5.JAN.2022 17:44:12



Date: 5.JAN.2022 17:55:08

Middle Channel / FullIRB

N/A



Date: 5.JAN.2022 18:40:18

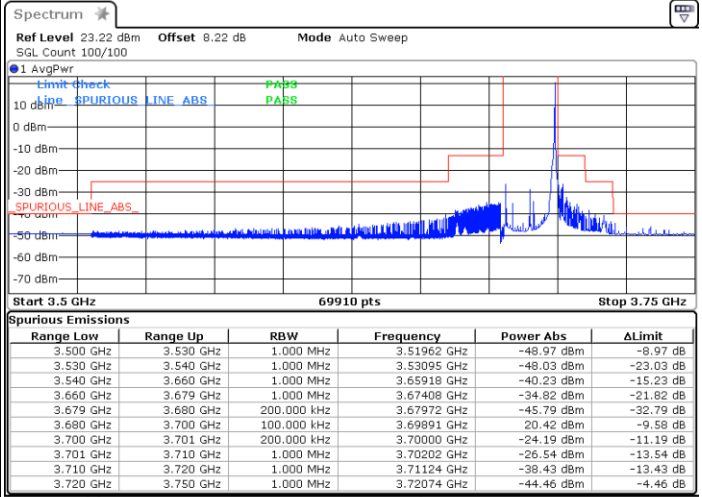
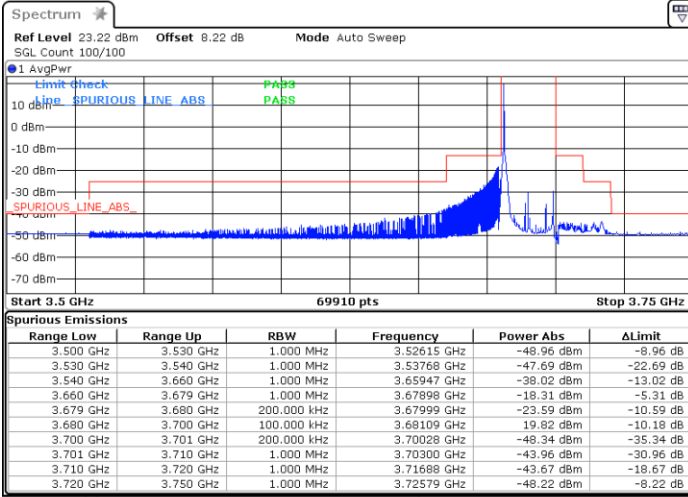


LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

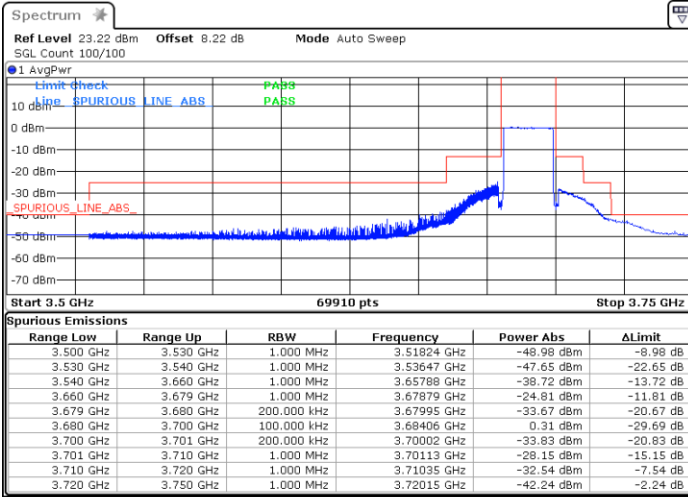


Date: 5.JAN.2022 19:25:14

Date: 5.JAN.2022 19:14:00

Highest Channel / FullIRB

N/A



Date: 5.JAN.2022 18:52:07

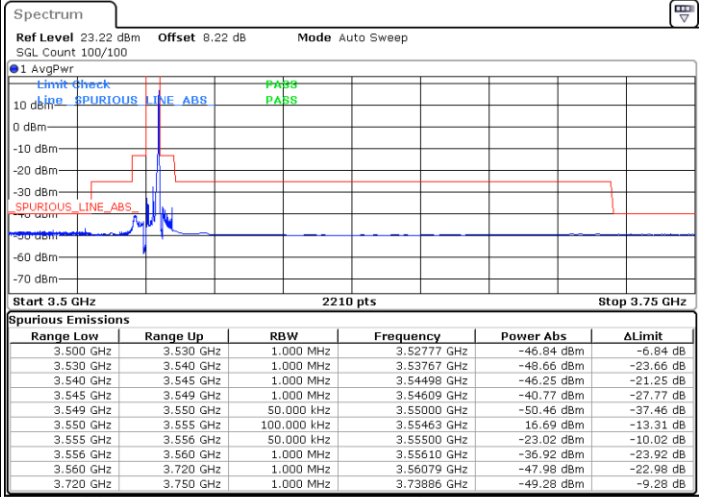
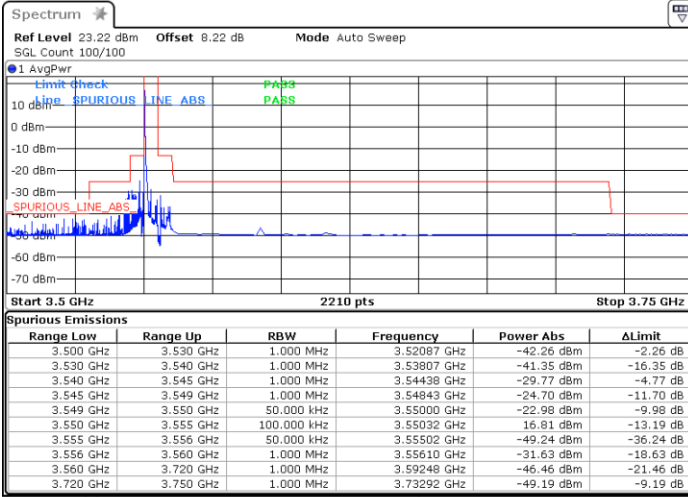


LTE Band 48 / 5MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

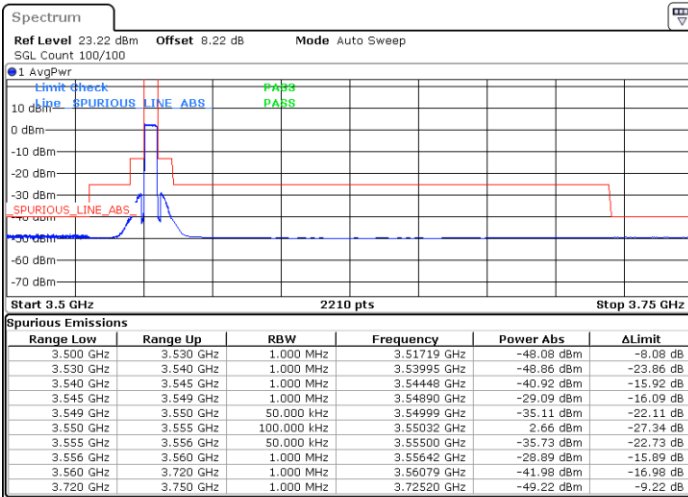


Date: 28. DEC. 2021 16:47:32

Date: 28. DEC. 2021 16:52:12

Lowest Channel / FullIRB

N/A



Date: 28. DEC. 2021 18:05:30

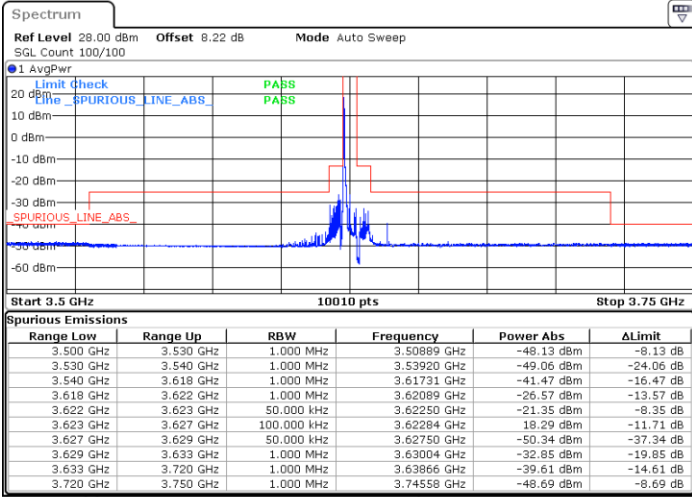


LTE Band 48 / 5MHz

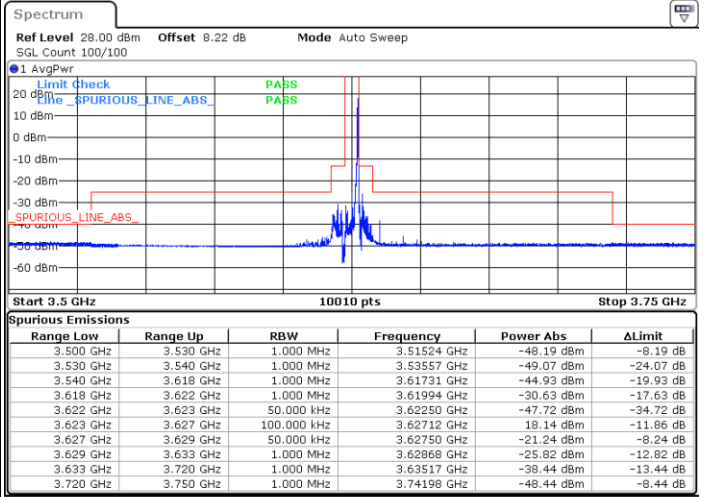
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



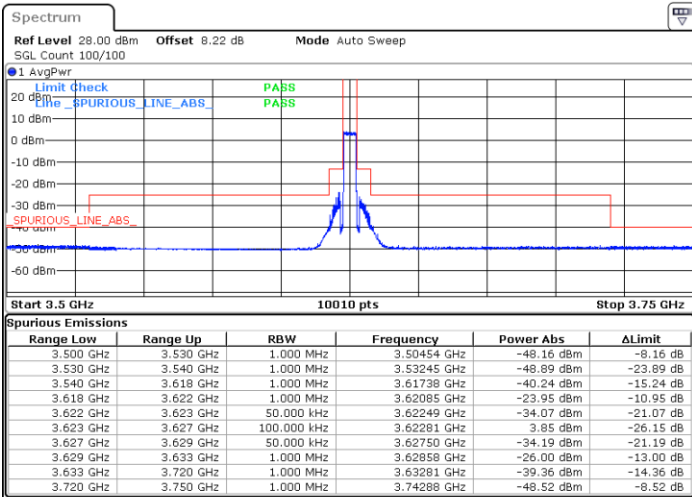
Date: 28. DEC. 2021 18:34:29



Date: 28. DEC. 2021 20:10:23

Middle Channel / FullIRB

N/A



Date: 28. DEC. 2021 18:27:24

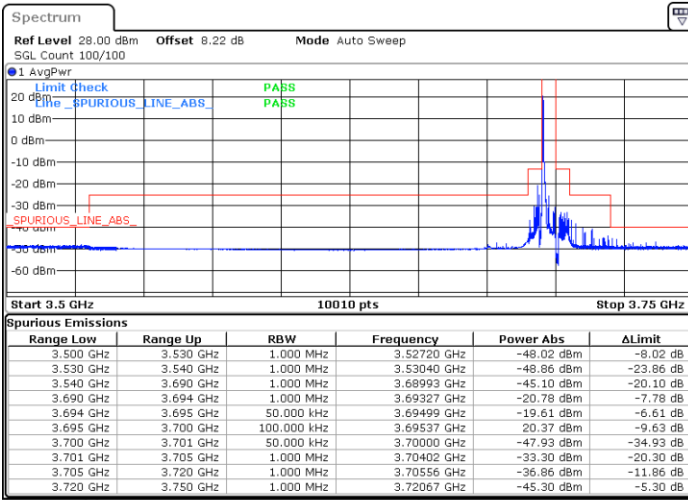


LTE Band 48 / 5MHz

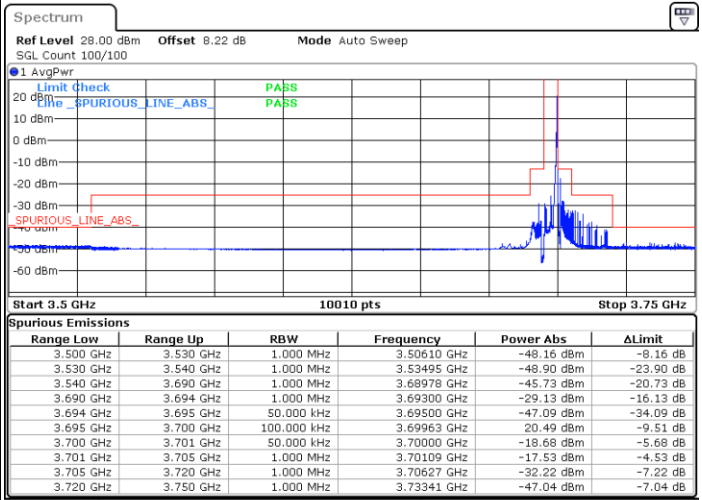
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



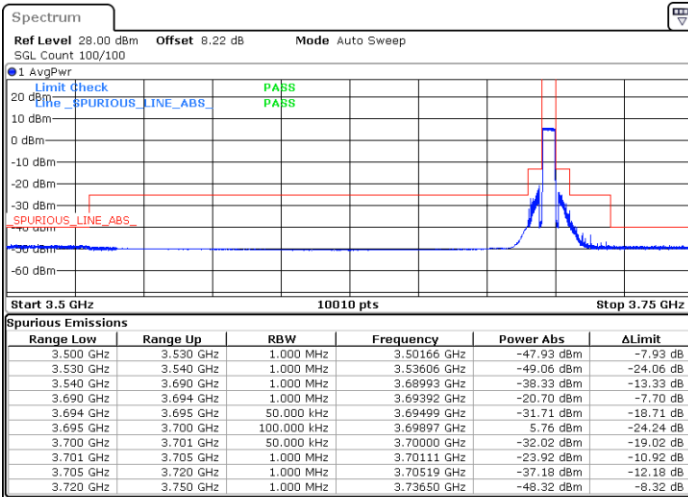
Date: 28. DEC. 2021 20:30:22



Date: 28. DEC. 2021 20:36:11

Highest Channel / FullIRB

N/A



Date: 28. DEC. 2021 21:02:24

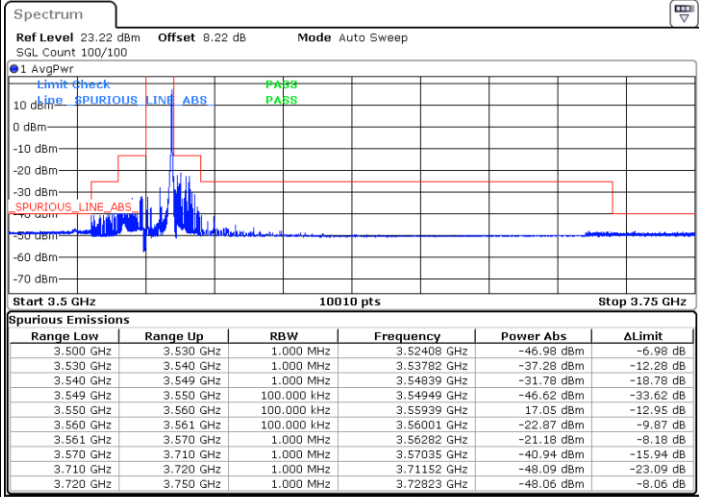
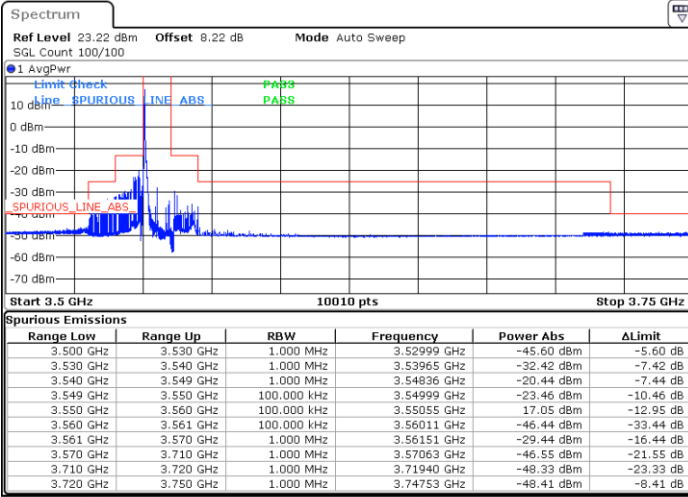


LTE Band 48 / 10MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

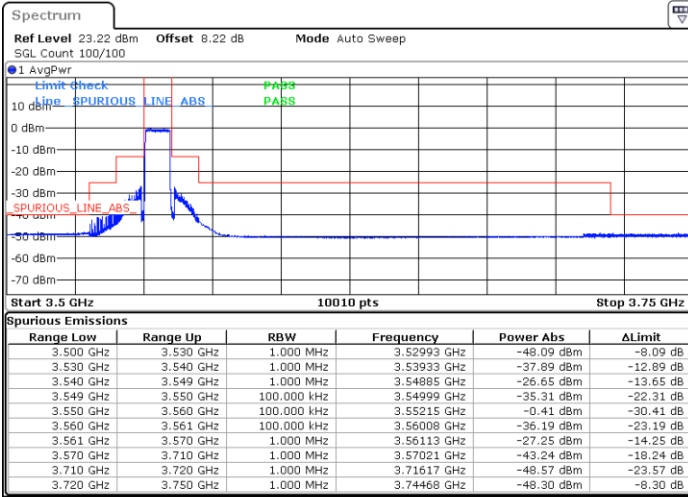


Date: 28.DEC.2021 21:22:27

Date: 28.DEC.2021 21:36:25

Lowest Channel / FullIRB

N/A



Date: 28.DEC.2021 21:39:42

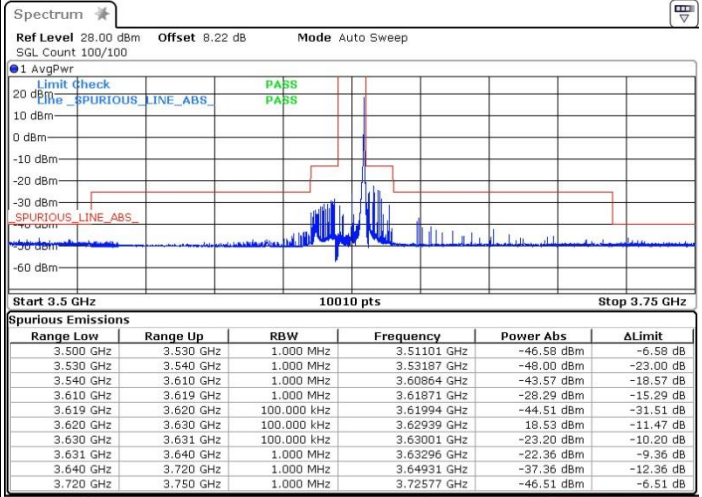
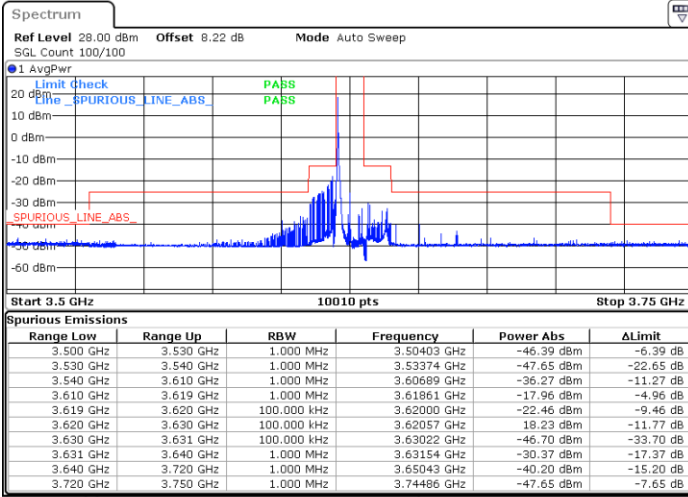


LTE Band 48 / 10MHz

64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax

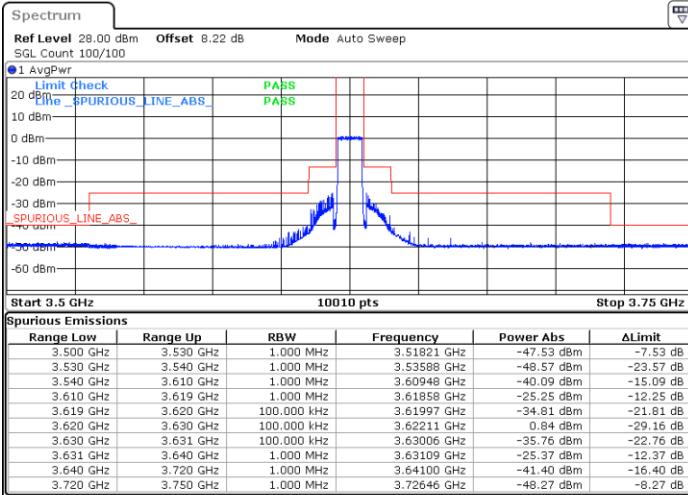


Date: 28.DEC.2021 22:08:00

Date: 28.DEC.2021 22:25:13

Middle Channel / FullIRB

N/A



Date: 28.DEC.2021 22:29:17

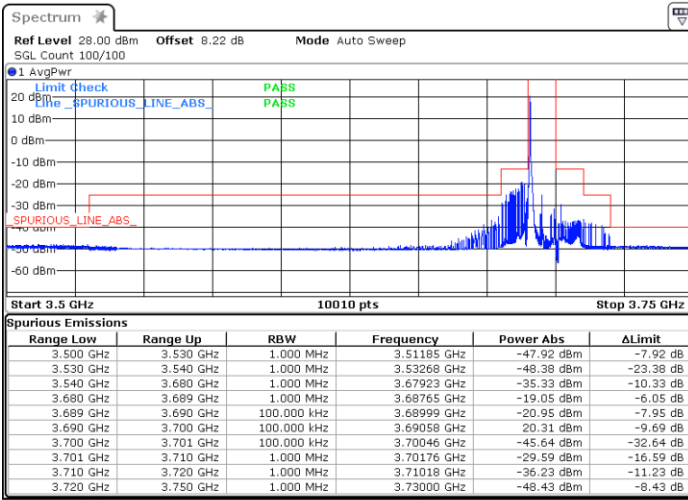


LTE Band 48 / 10MHz

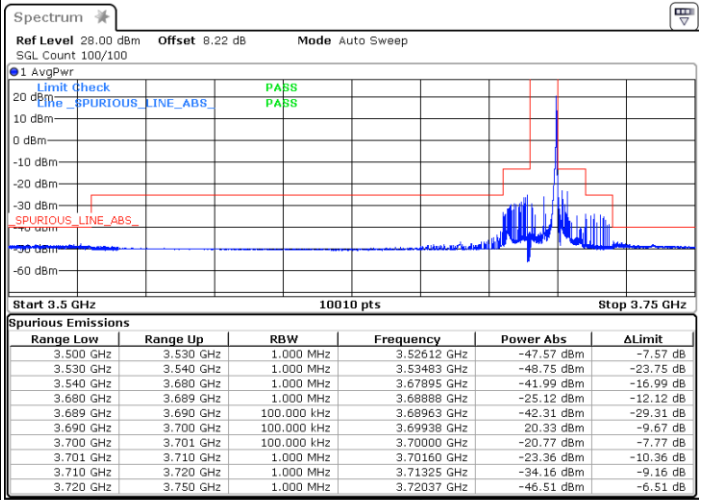
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



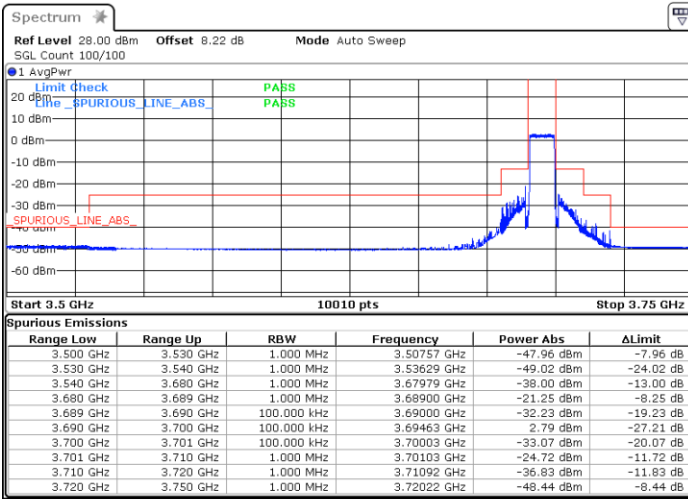
Date: 28. DEC. 2021 23:35:14



Date: 28. DEC. 2021 23:22:42

Highest Channel / FullIRB

N/A



Date: 28. DEC. 2021 23:51:02

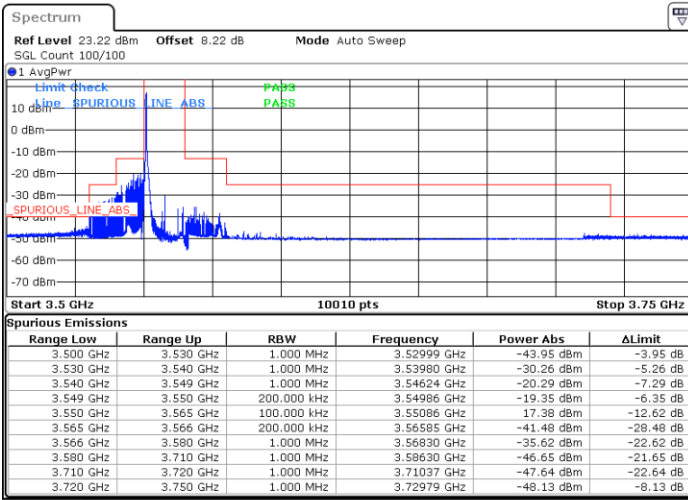


LTE Band 48 / 15MHz

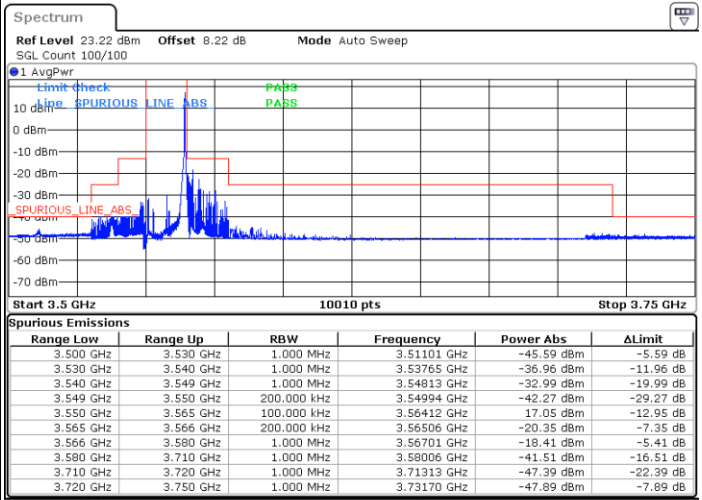
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



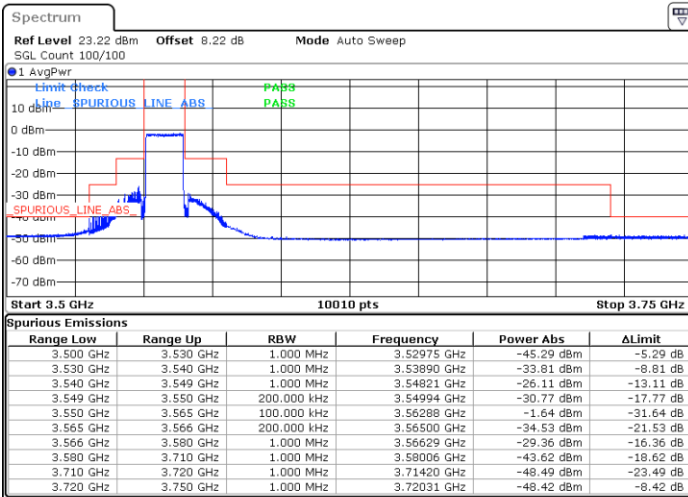
Date: 29.DEC.2021 19:41:09



Date: 29.DEC.2021 19:44:37

Lowest Channel / FullIRB

N/A



Date: 29.DEC.2021 19:21:49

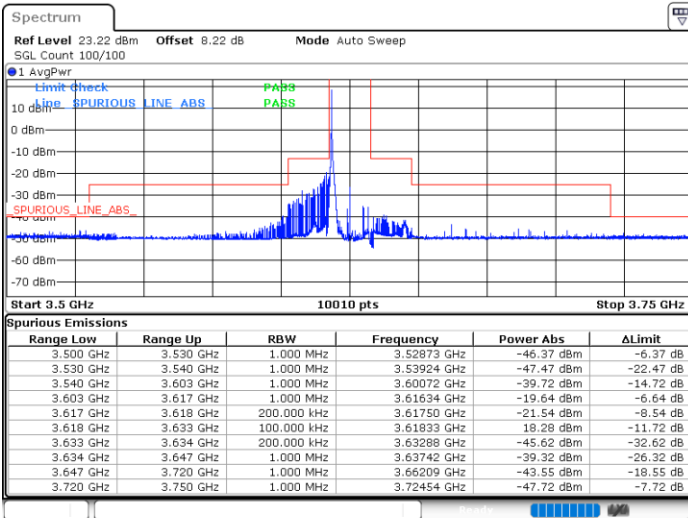


LTE Band 48 / 15MHz

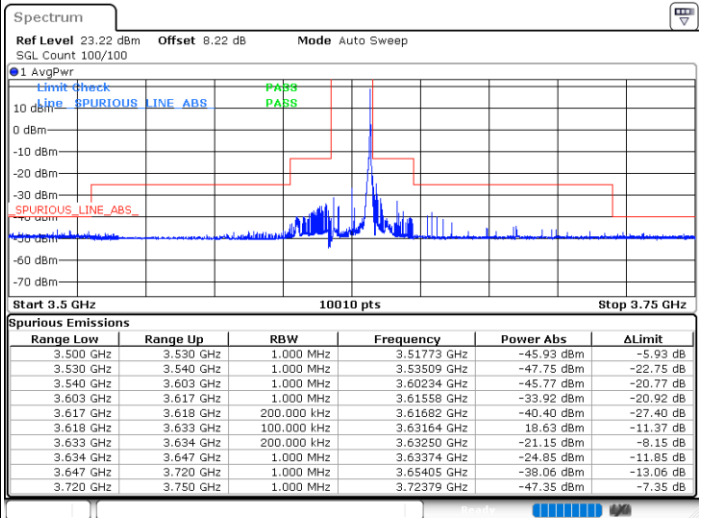
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



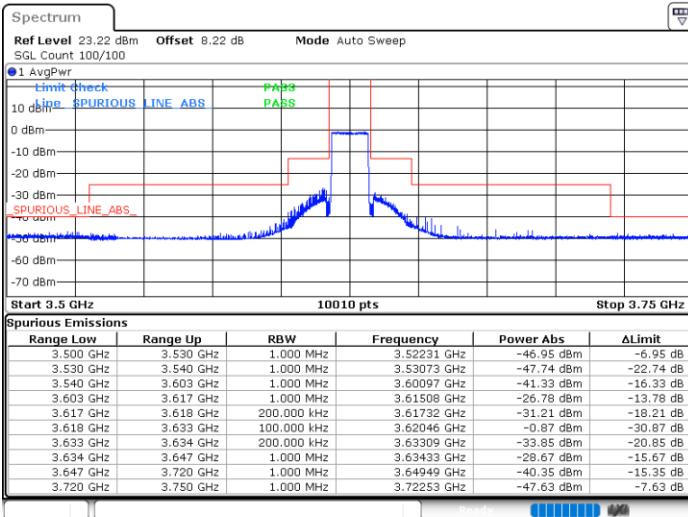
Date: 29.DEC.2021 21:28:42



Date: 29.DEC.2021 20:27:54

Middle Channel / FullIRB

N/A



Date: 29.DEC.2021 20:01:44

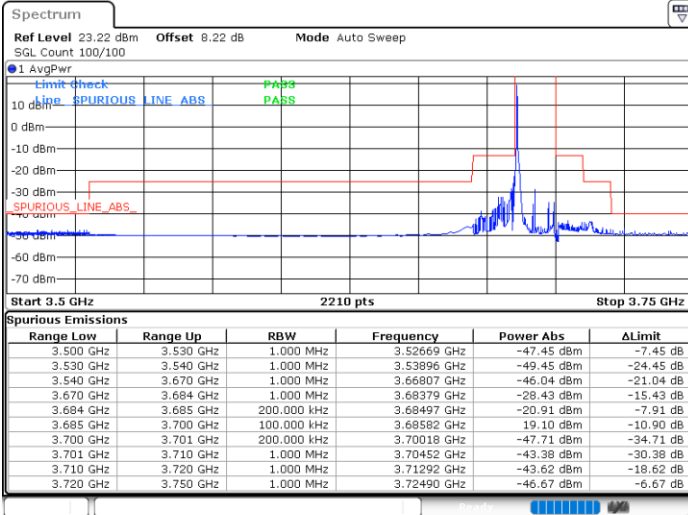


LTE Band 48 / 15MHz

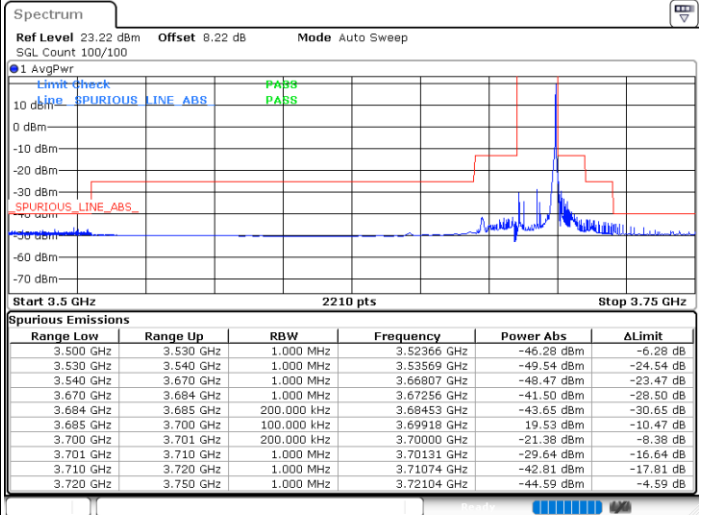
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



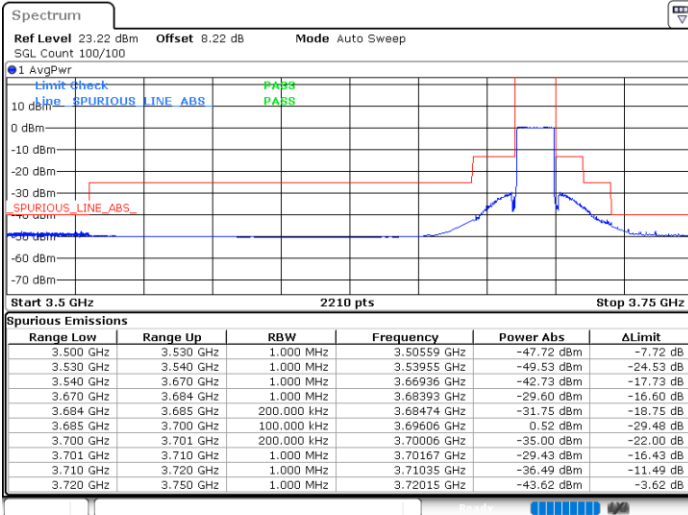
Date: 29. DEC. 2021 21:03:27



Date: 29. DEC. 2021 21:23:51

Highest Channel / FullIRB

N/A



Date: 29. DEC. 2021 21:06:59

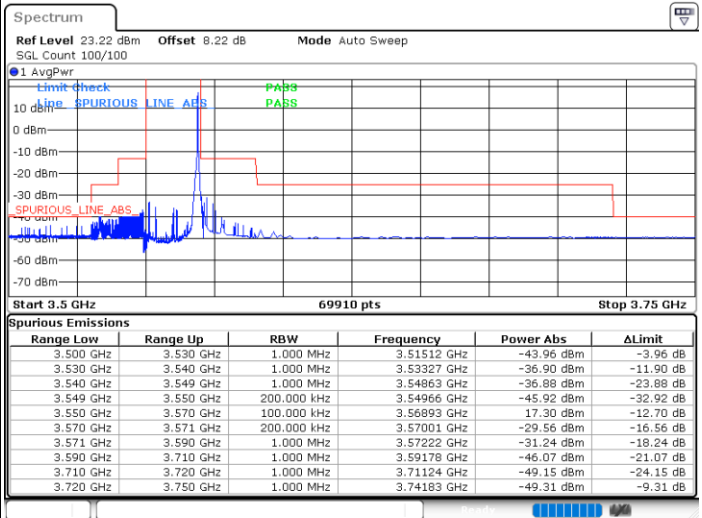
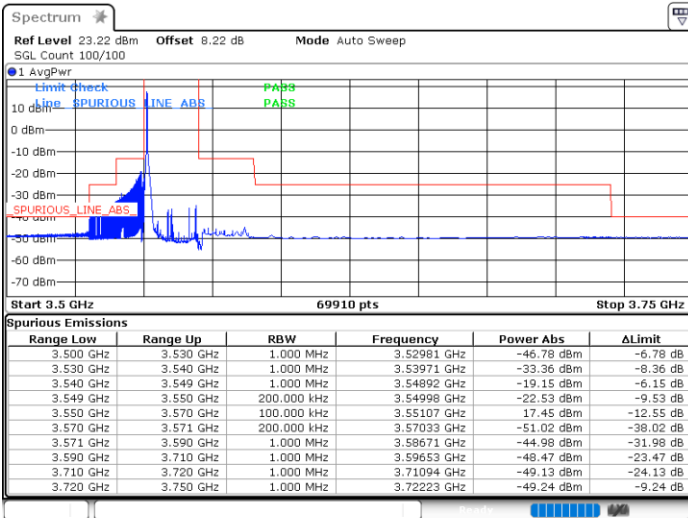


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

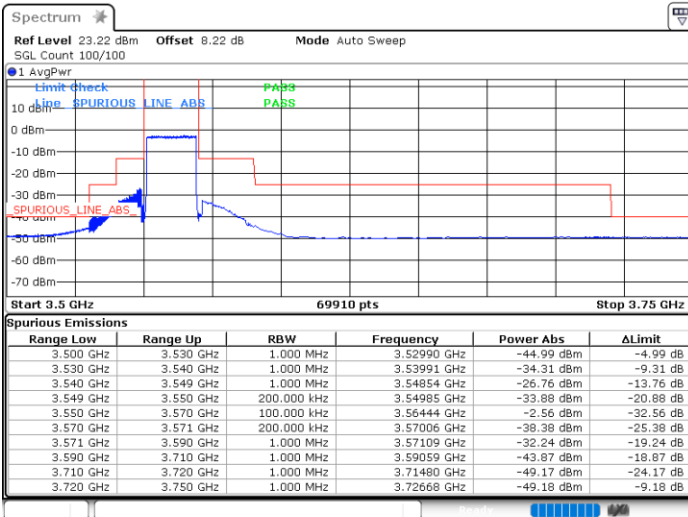


Date: 5. JAN. 2022 16:49:20

Date: 5. JAN. 2022 16:52:27

Lowest Channel / FullIRB

N/A



Date: 5. JAN. 2022 17:33:49

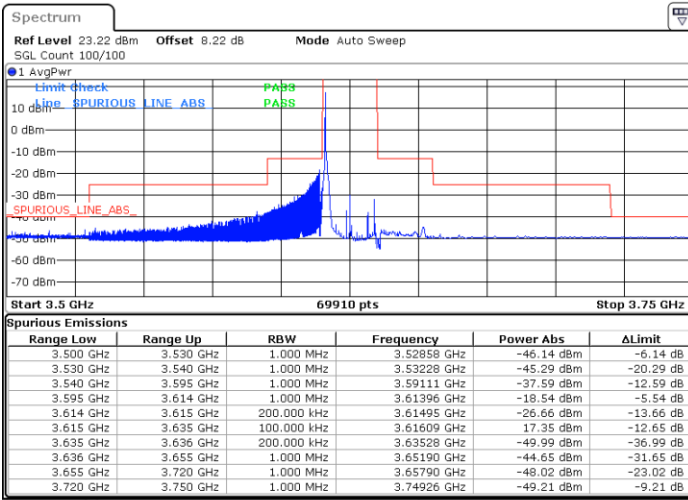


LTE Band 48 / 20MHz

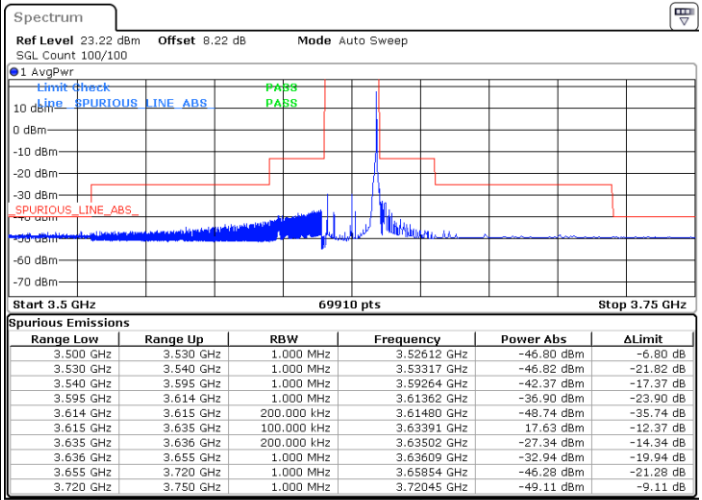
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



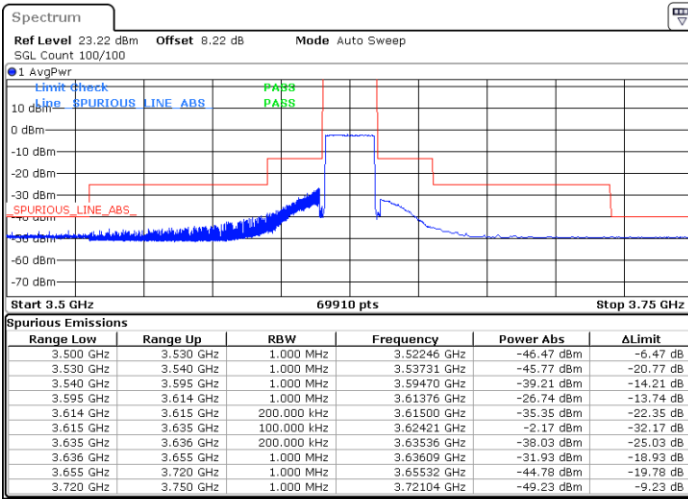
Date: 5.JAN.2022 17:46:40



Date: 5.JAN.2022 17:58:02

Middle Channel / FullIRB

N/A



Date: 5.JAN.2022 18:43:57

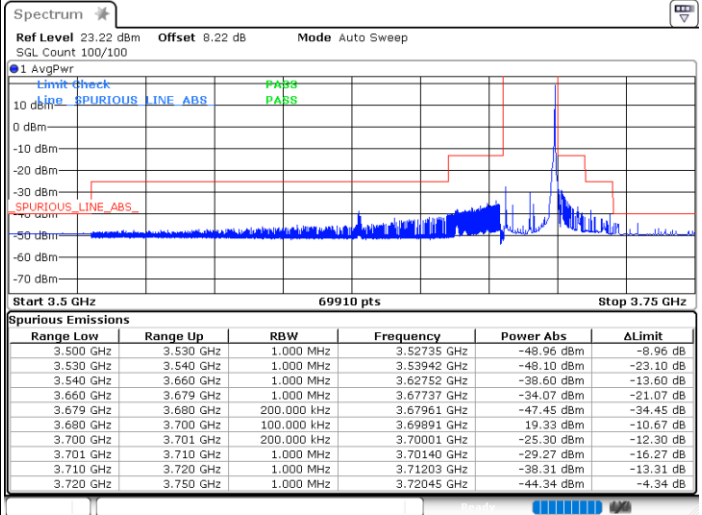
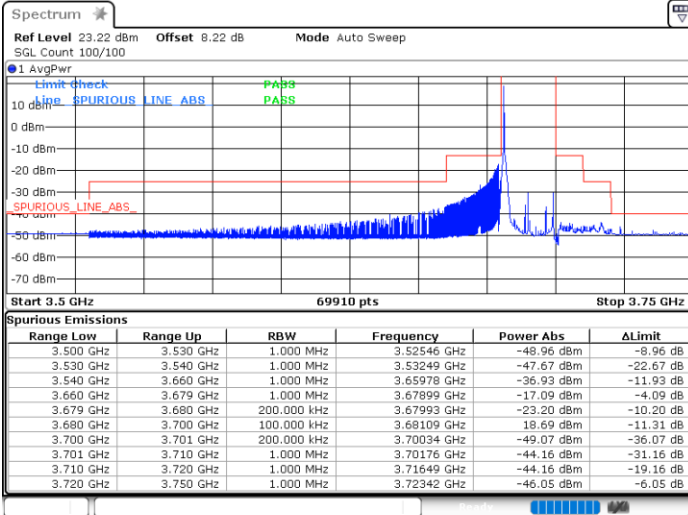


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

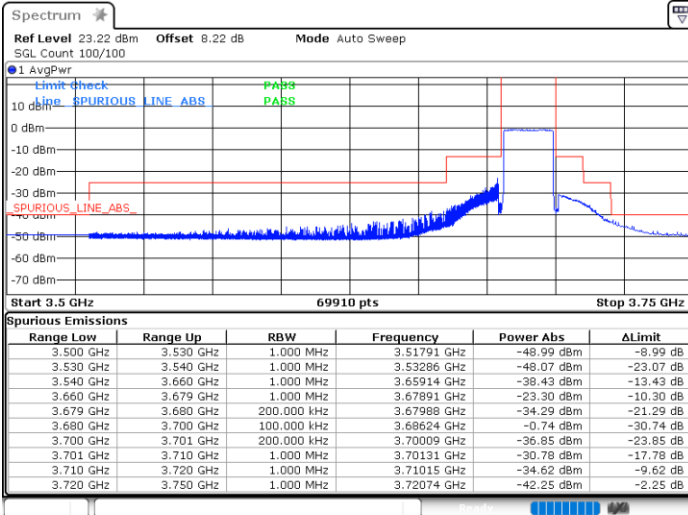


Date: 5.JAN.2022 19:28:12

Date: 5.JAN.2022 19:19:21

Highest Channel / FullIRB

N/A



Date: 5.JAN.2022 18:48:37



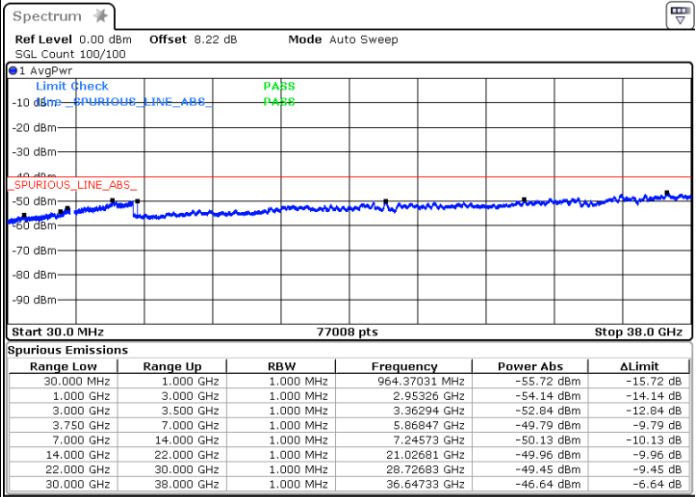
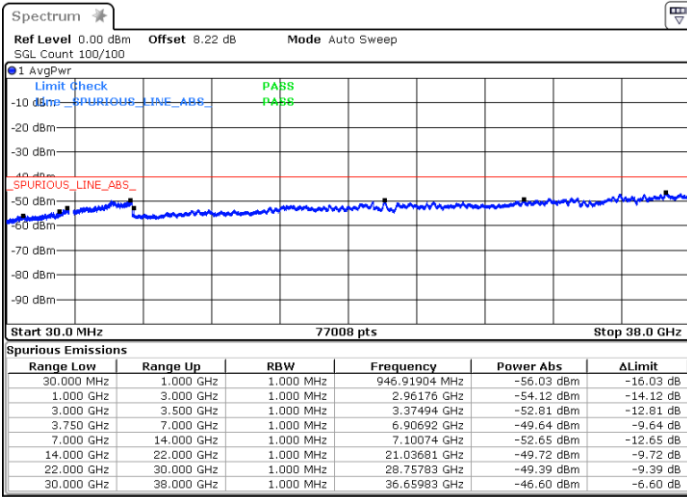
Conducted Spurious Emission

LTE Band 48 / 5MHz

QPSK / 1RB0

Lowest Channel

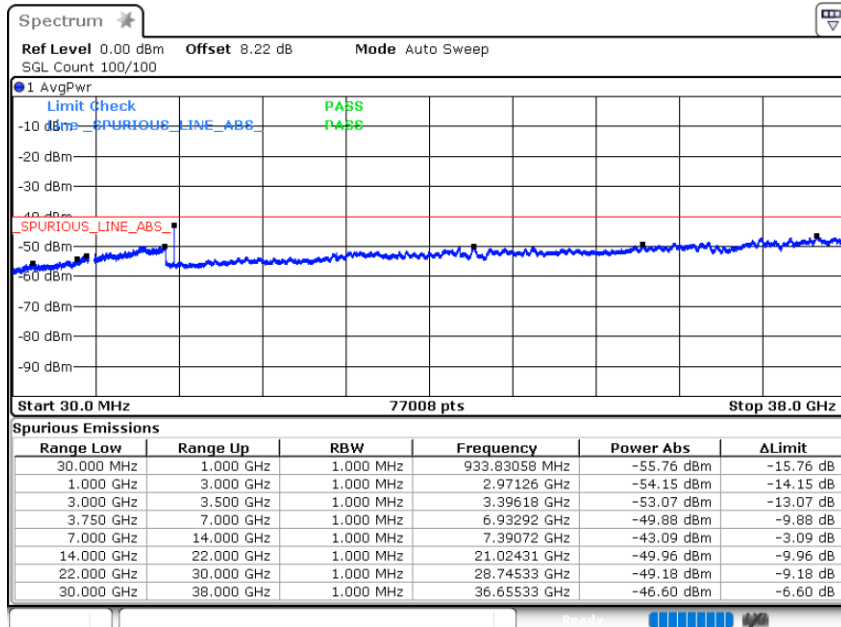
Middle Channel



Date: 28.DEC.2021 19:20:55

Date: 28.DEC.2021 19:15:59

Highest Channel



Date: 28.DEC.2021 21:06:28

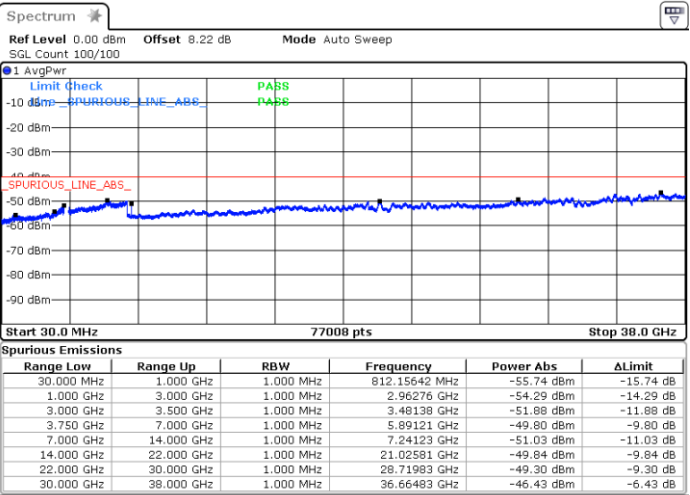
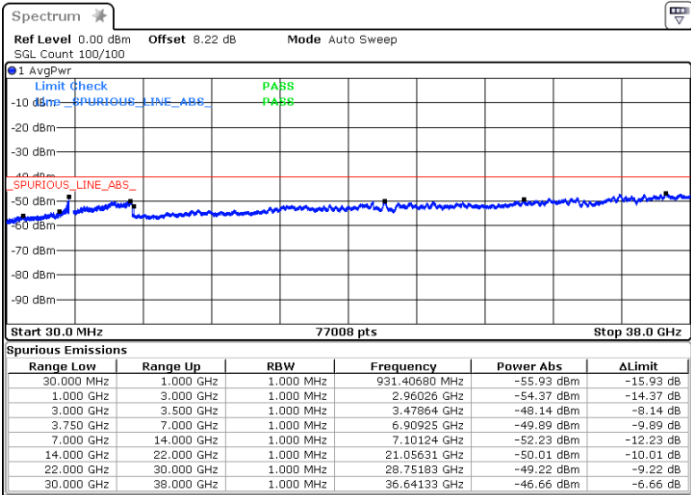


LTE Band 48 / 10MHz

QPSK / 1RB0

Lowest Channel

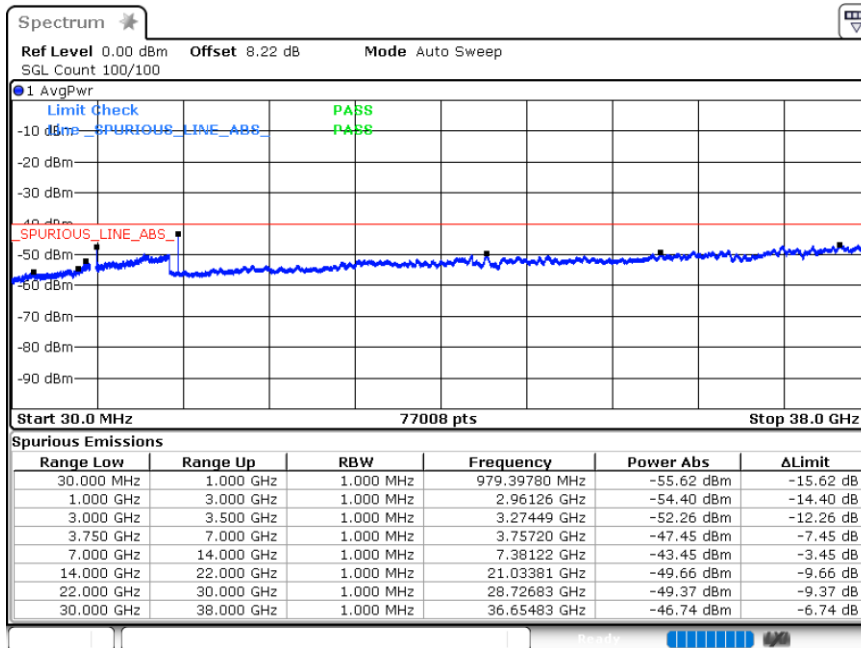
Middle Channel



Date: 28.DEC.2021 21:26:18

Date: 28.DEC.2021 22:40:42

Highest Channel



Date: 28.DEC.2021 22:52:06

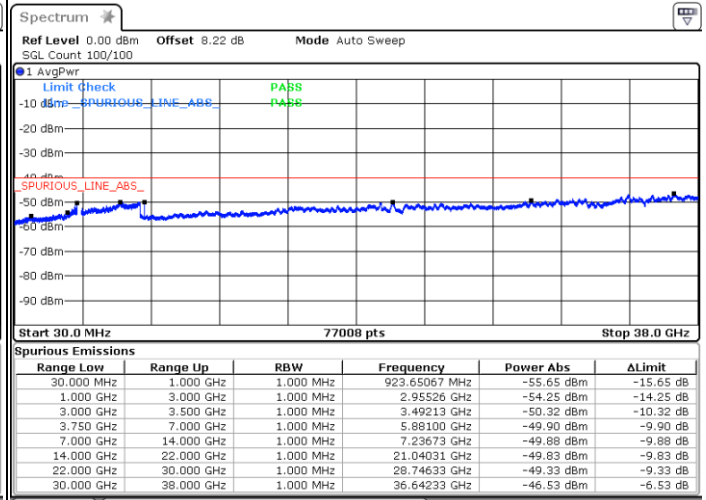
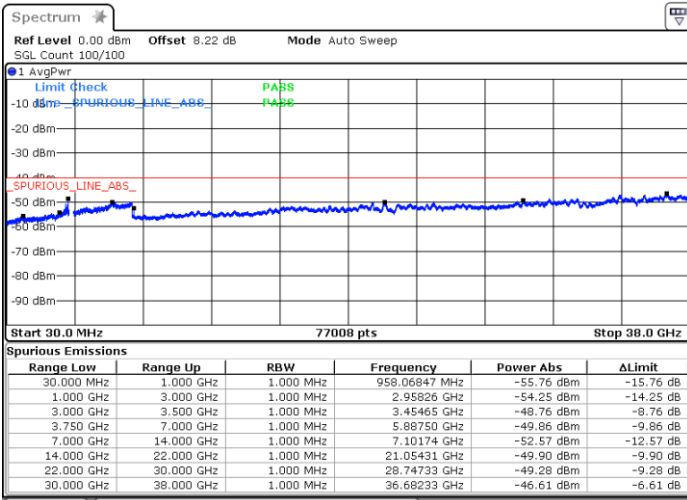


LTE Band 48 / 15MHz

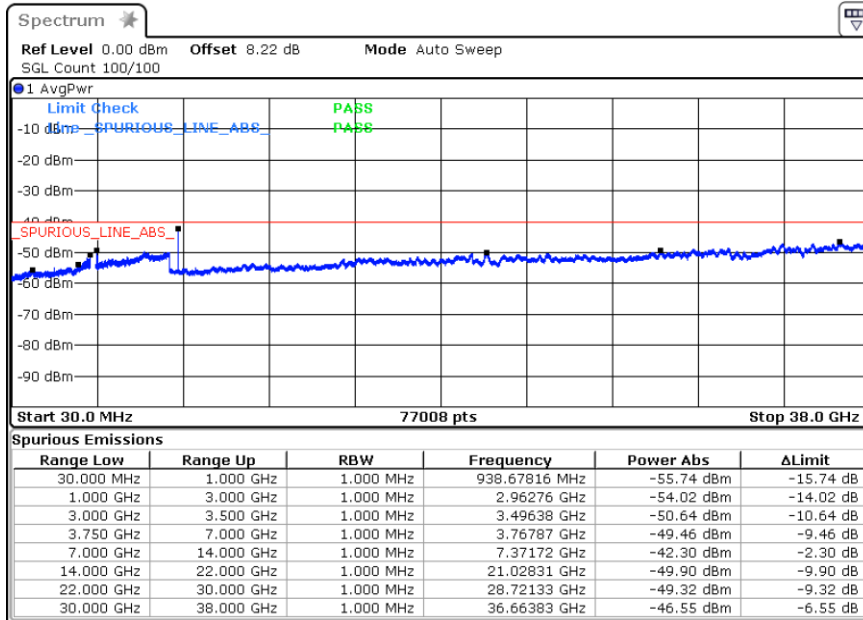
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel



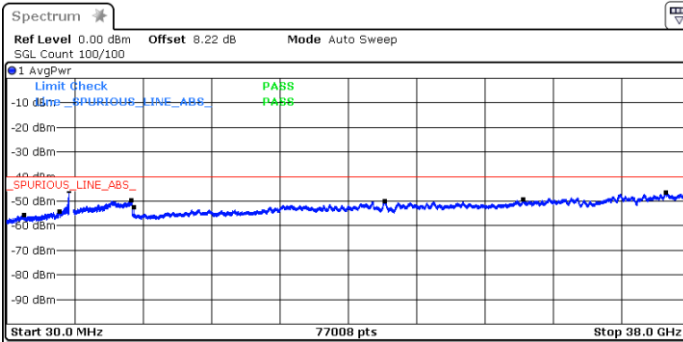
LTE Band 48 / 20MHz



QPSK / 1RB0

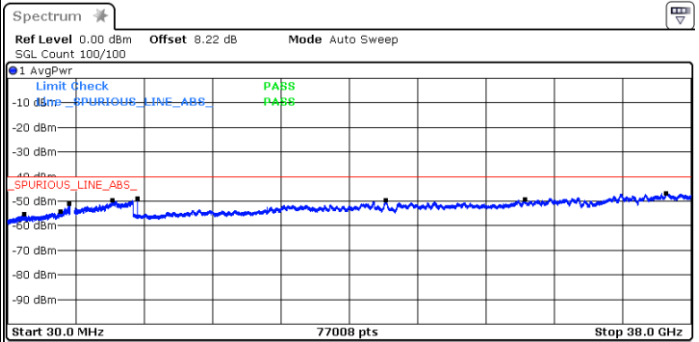
Lowest Channel

Middle Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.76062 MHz	-55.80 dBm	-15.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96926 GHz	-54.38 dBm	-14.38 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.49663 GHz	-45.84 dBm	-5.84 dB
3.750 GHz	7.000 GHz	1.000 MHz	6.96309 GHz	-49.80 dBm	-9.80 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.10224 GHz	-52.53 dBm	-12.53 dB
14.000 GHz	22.000 GHz	1.000 MHz	21.01731 GHz	-49.83 dBm	-9.83 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.74733 GHz	-49.46 dBm	-9.46 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.67383 GHz	-46.37 dBm	-6.37 dB

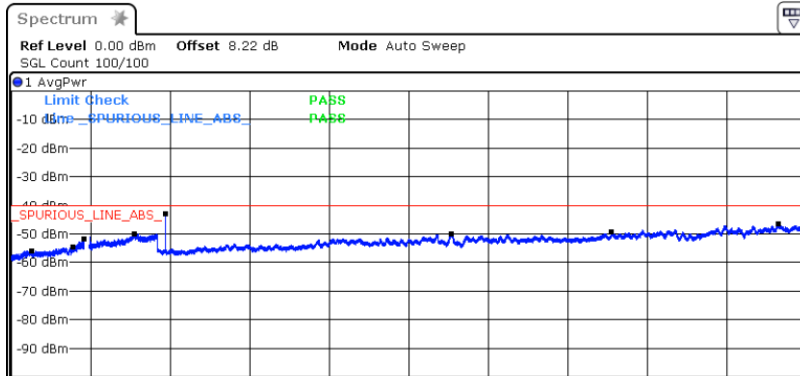
Date: 5. JAN. 2022 17:37:18



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	935.28486 MHz	-55.38 dBm	-15.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95776 GHz	-54.27 dBm	-14.27 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.42466 GHz	-51.08 dBm	-11.08 dB
3.750 GHz	7.000 GHz	1.000 MHz	5.86707 GHz	-49.68 dBm	-9.68 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.23223 GHz	-48.95 dBm	-8.95 dB
14.000 GHz	22.000 GHz	1.000 MHz	21.03981 GHz	-49.61 dBm	-9.61 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.75433 GHz	-49.39 dBm	-9.39 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.62784 GHz	-46.70 dBm	-6.70 dB

Date: 5. JAN. 2022 17:50:09

Highest Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	978.42829 MHz	-55.86 dBm	-15.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95026 GHz	-54.45 dBm	-14.45 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.46714 GHz	-51.67 dBm	-11.67 dB
3.750 GHz	7.000 GHz	1.000 MHz	5.88889 GHz	-49.98 dBm	-9.98 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.36222 GHz	-43.04 dBm	-3.04 dB
14.000 GHz	22.000 GHz	1.000 MHz	21.04831 GHz	-50.03 dBm	-10.03 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.69583 GHz	-49.35 dBm	-9.35 dB
30.000 GHz	38.000 GHz	1.000 MHz	36.66833 GHz	-46.56 dBm	-6.56 dB

Date: 5. JAN. 2022 19:31:38



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0010	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0017	

Note:

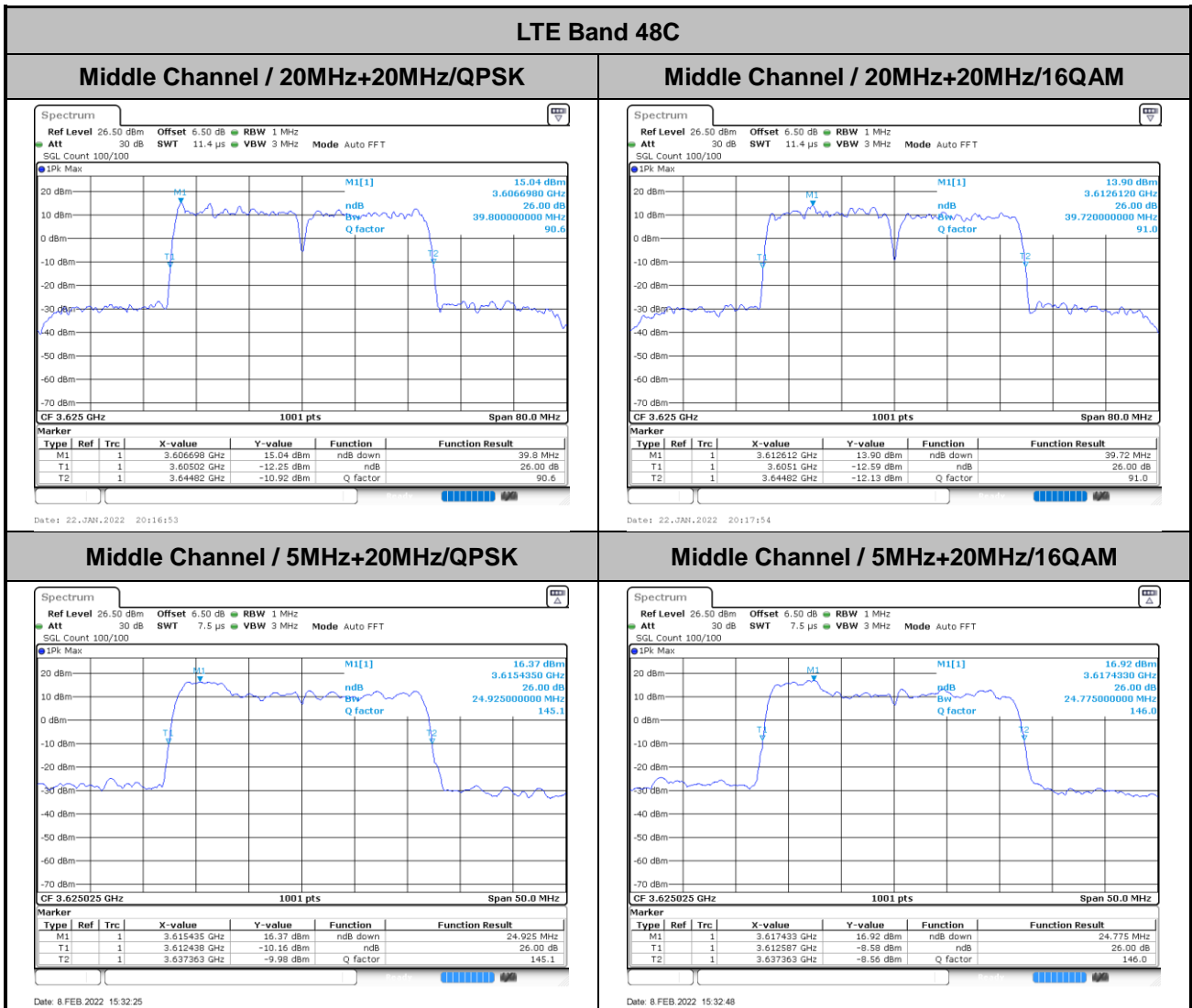
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48C

26dB Bandwidth

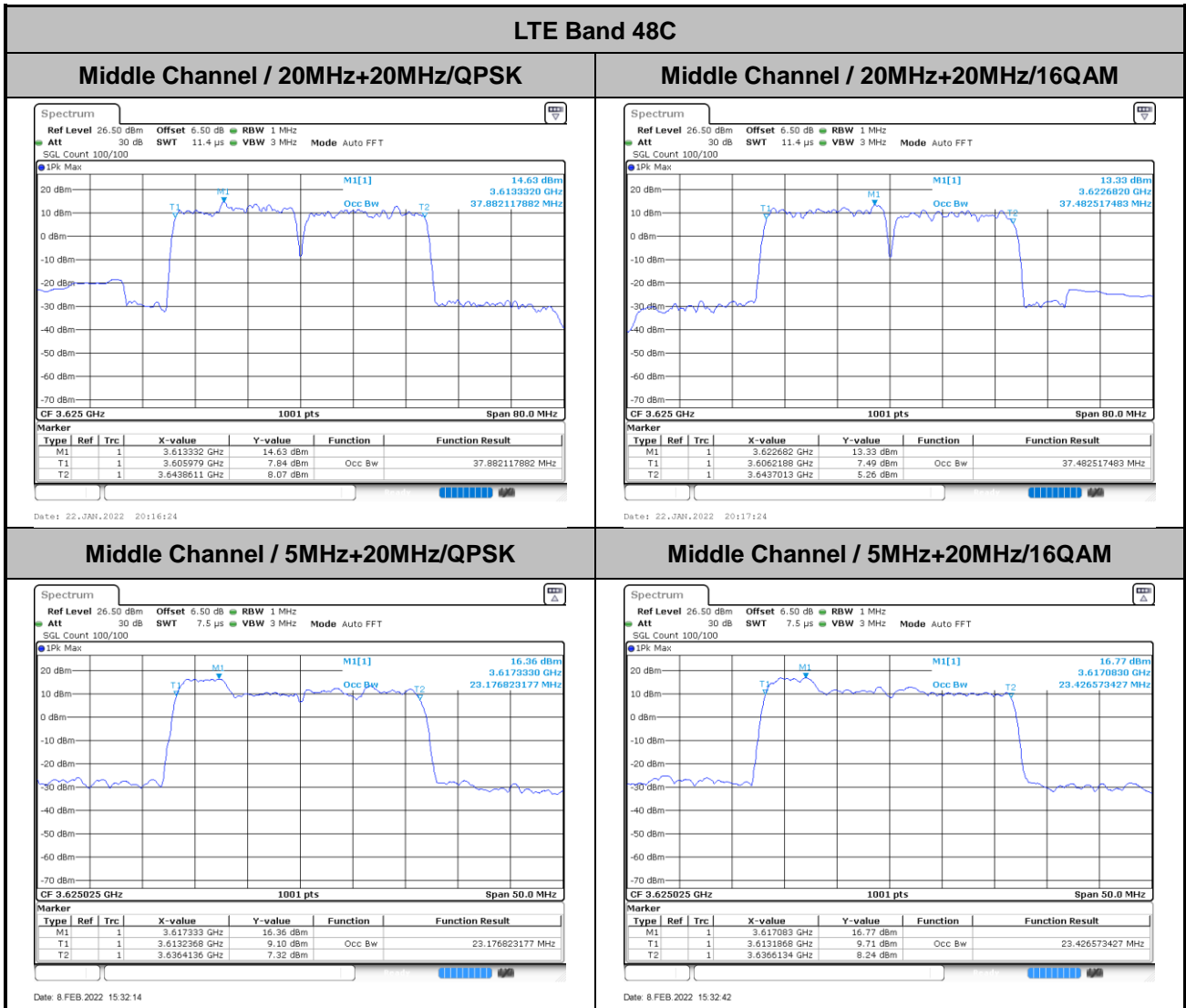
Mode	LTE Band 48C : 26dB BW(MHz)	
QPSK	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.8	39.72
BW	5MHz+20MHz	5MHz+20MHz
Middle CH	24.93	24.78





Occupied Bandwidth

Mode	LTE Band 48C : OBW(MHz)	
QPSK	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.88	37.48
BW	5MHz+20MHz	5MHz+20MHz
Middle CH	23.18	23.43





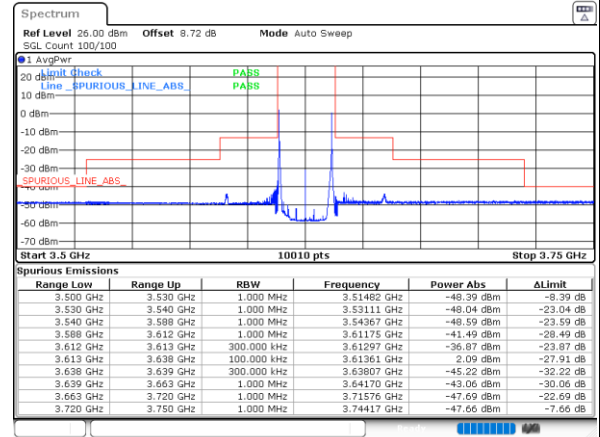
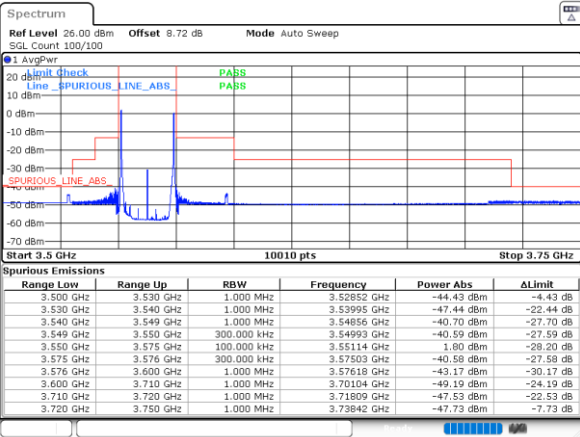
Conducted Band Edge

LTE Band 48C / 5MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

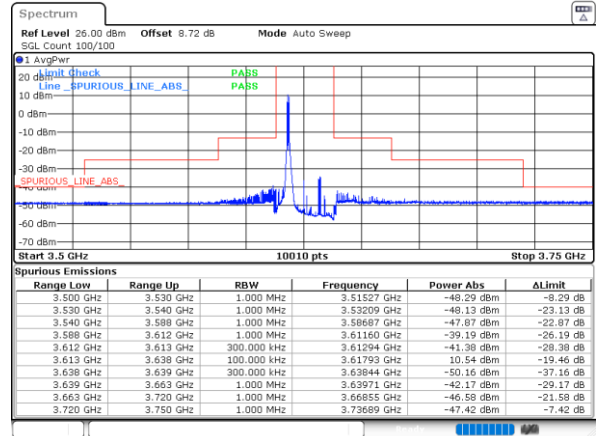
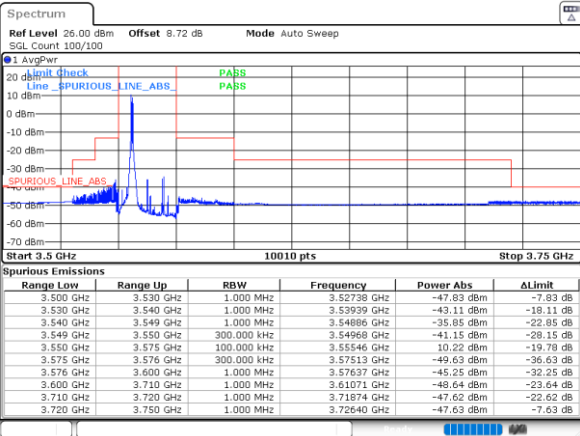


Date: 21, JAN, 2022 01:23:36

Date: 20, JAN, 2022 23:45:09

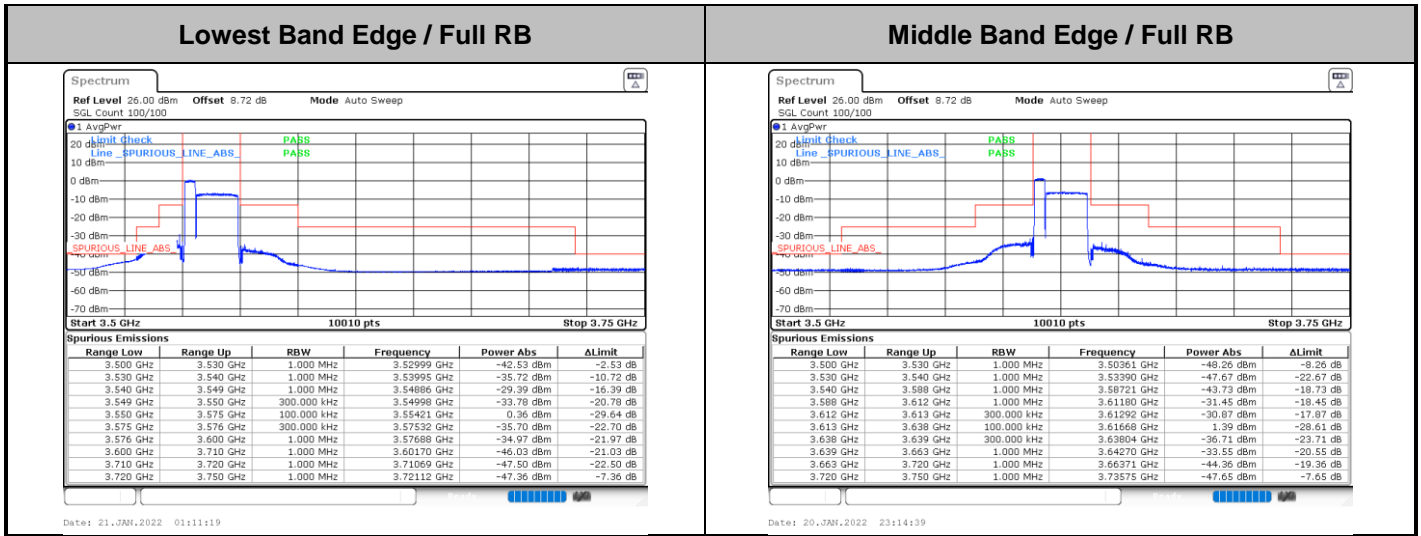
Lowest Band Edge / 1RB24 and 1RB0

Middle Band Edge / 1RB24 and 1RB0



Date: 21, JAN, 2022 01:33:01

Date: 20, JAN, 2022 23:51:07



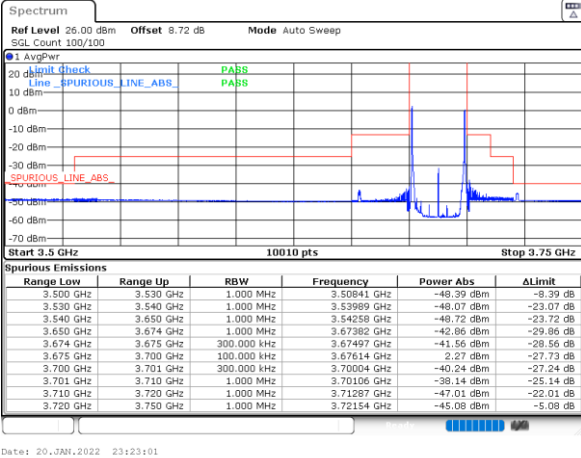


LTE Band 48C / 5MHz+20MHz

QPSK

Highest Band Edge / 1RB0 and 1RB99

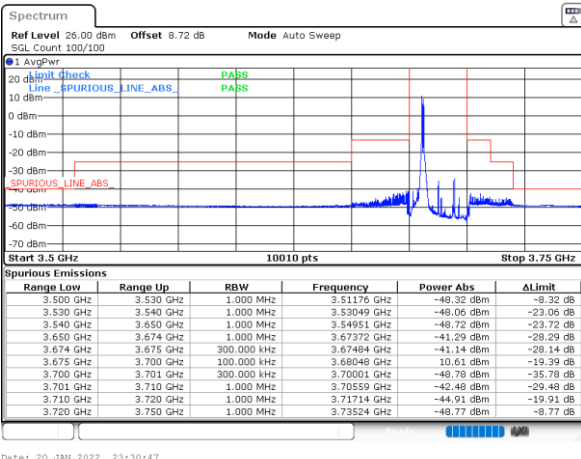
N/A



Date: 20_JAN,2022 23:23:01

Highest Band Edge / 1RB24 and 1RB0

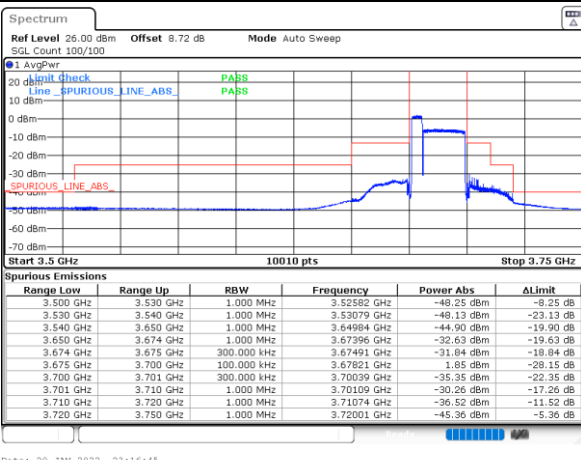
N/A



Date: 20_JAN,2022 23:30:47

Highest Band Edge / Full RB

N/A



Date: 20_JAN,2022 23:16:45

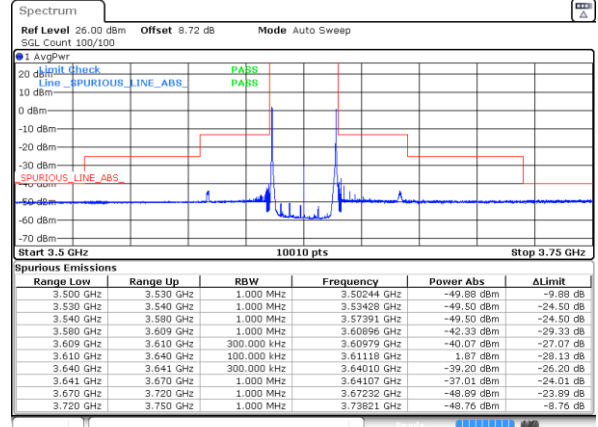
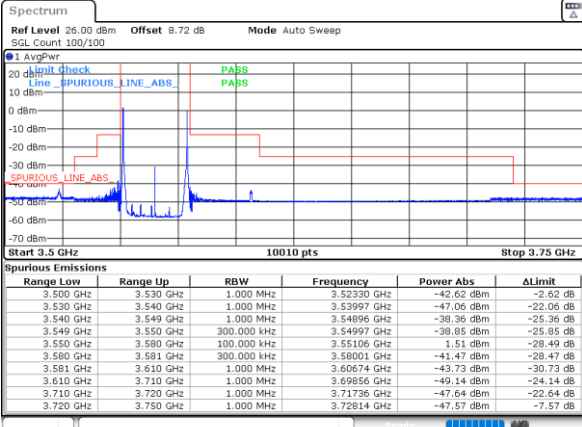


LTE Band 48C / 10MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Middle Band Edge / 1RB0 and 1RB99

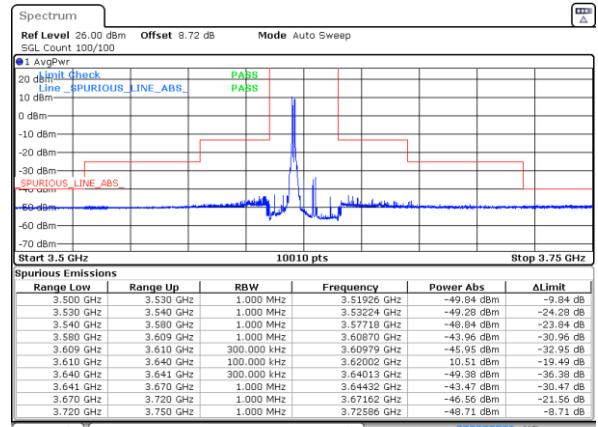
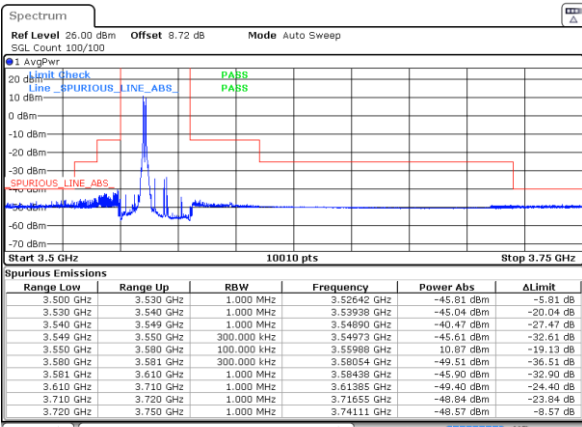


Date: 21_JAN,2022 02:57:23

Date: 20 JAN 2022 23:28:53

Lowest Band Edge / 1RB49 and 1RB0

Middle Band Edge / 1RB49 and 1RB0

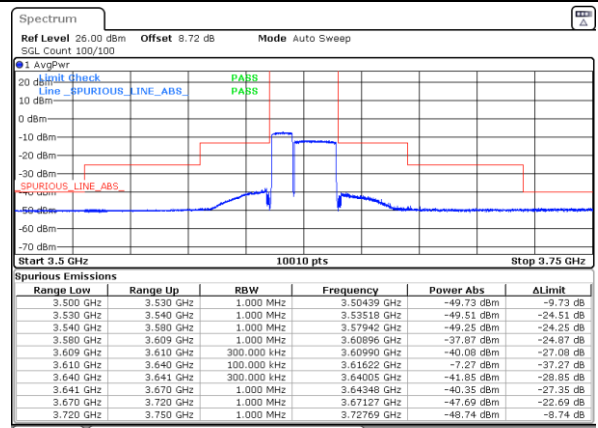
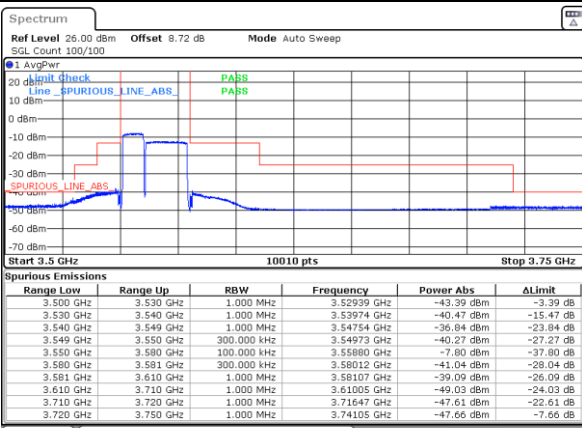


Date: 20 JAN 2022 22:46:29

Date: 20 JAN 2022 23:35:15

Lowest Band Edge / Full RB

Middle Band Edge / Full RB



Date: 21_JAN,2022 02:54:49

Date: 20 JAN 2022 23:10:48