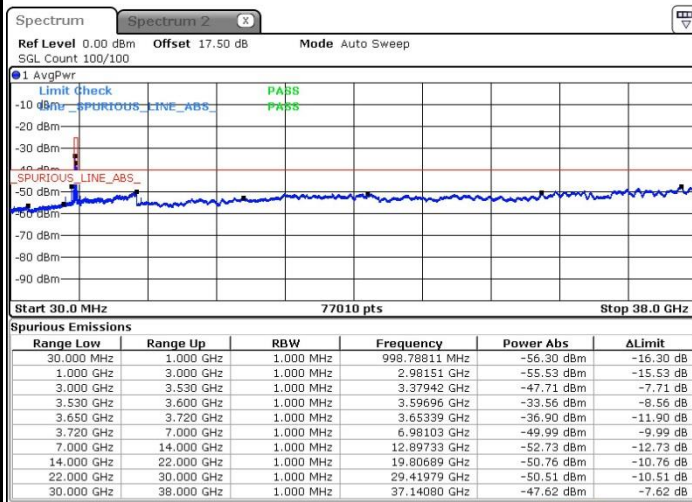




LTE Band 48 / 20MHz

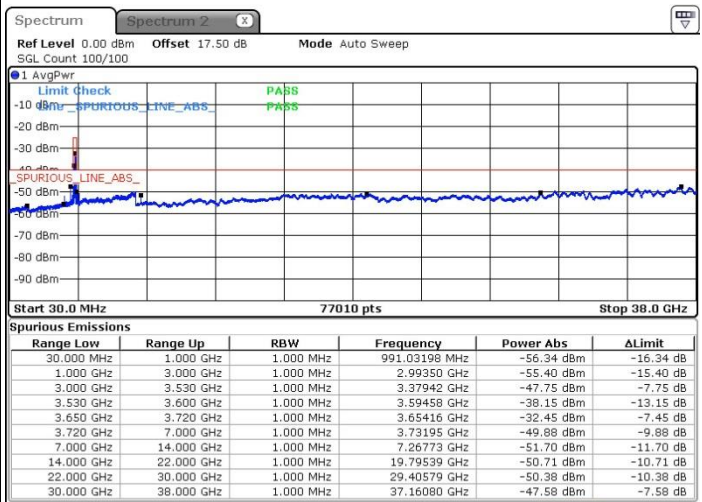
16QAM

Middle Channel / 1RB0



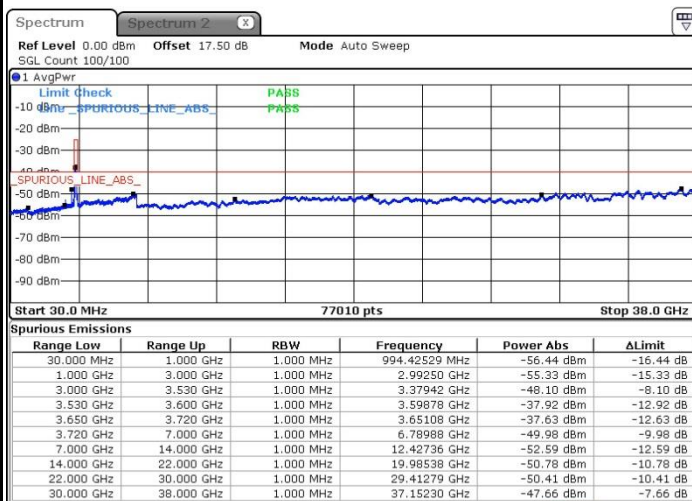
Date: 22 MAR 2019 01:46:01

Middle Channel / 1RBmax



Date: 22 MAR 2019 01:55:15

Middle Channel / FullIRB



Date: 22 MAR 2019 01:36:48

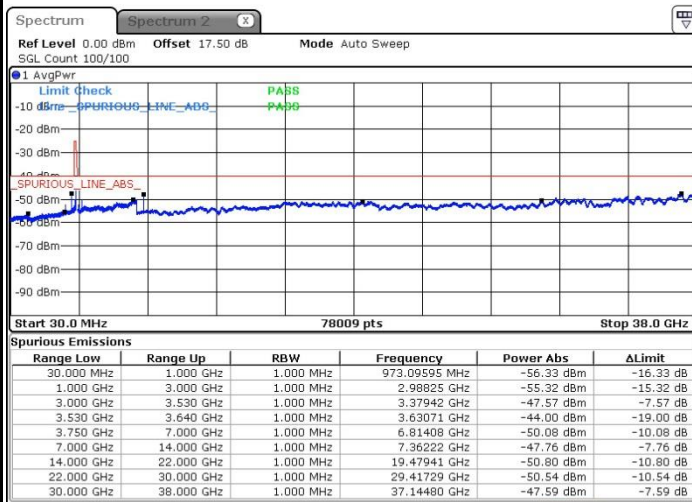
N/A



LTE Band 48 / 20MHz

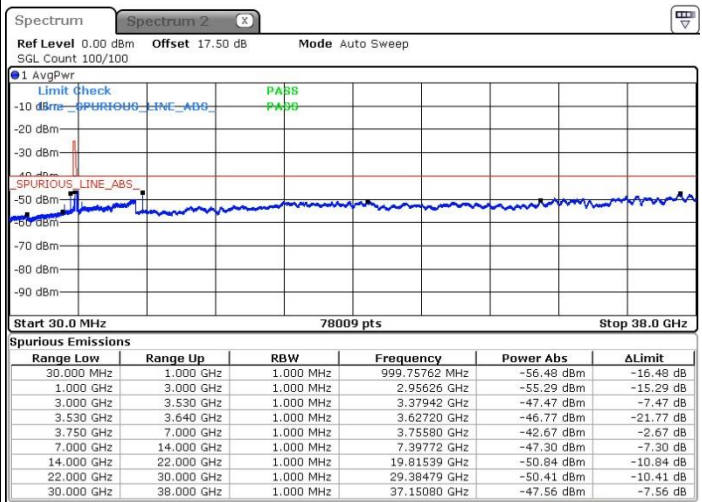
16QAM

Highest Channel / 1RB0



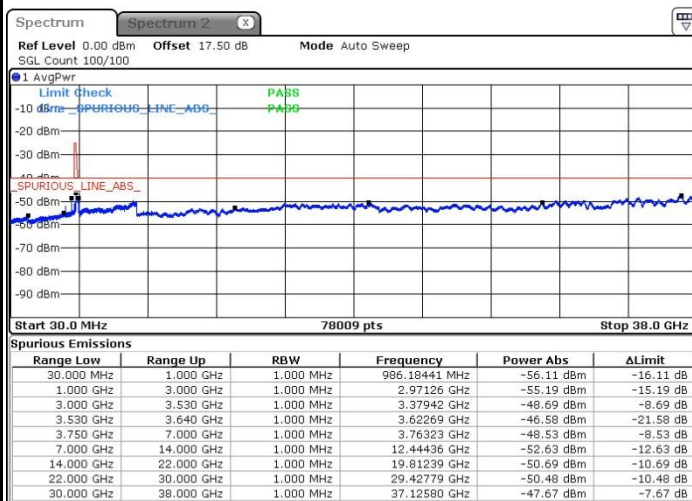
Date: 22 MAR 2019 01:49:05

Highest Channel / 1RBmax



Date: 22 MAR 2019 01:58:19

Highest Channel / FullIRB



Date: 22 MAR 2019 01:39:52

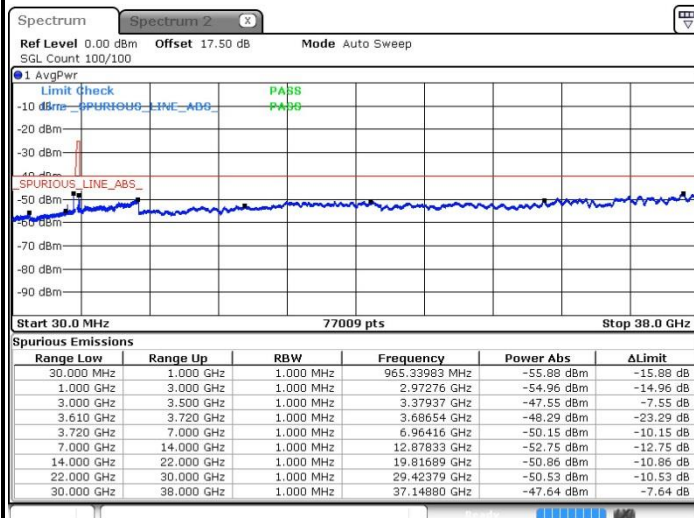
N/A



LTE Band 48 / 5MHz

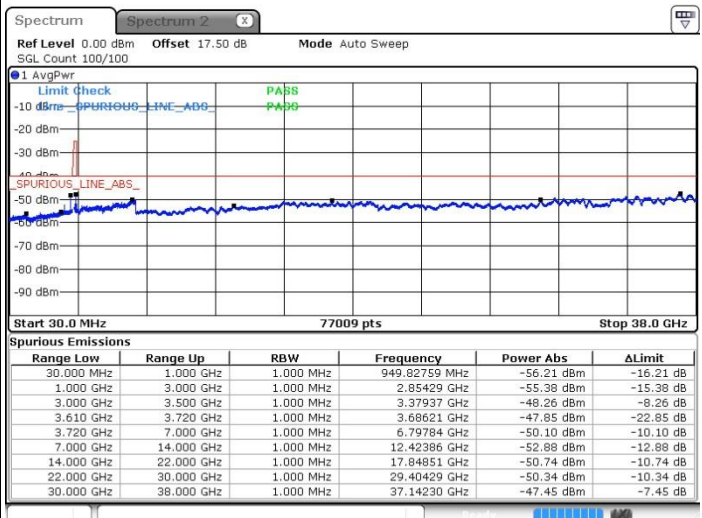
64QAM

Lowest Channel / 1RB0



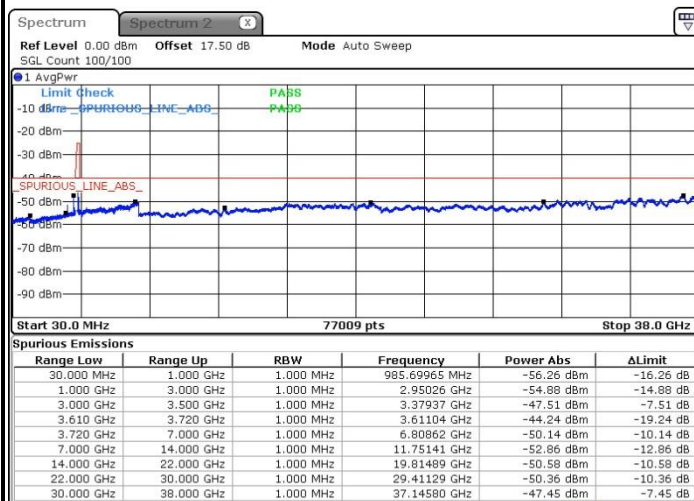
Date: 21.MAR.2019 23:37:18

Lowest Channel / 1RBmax



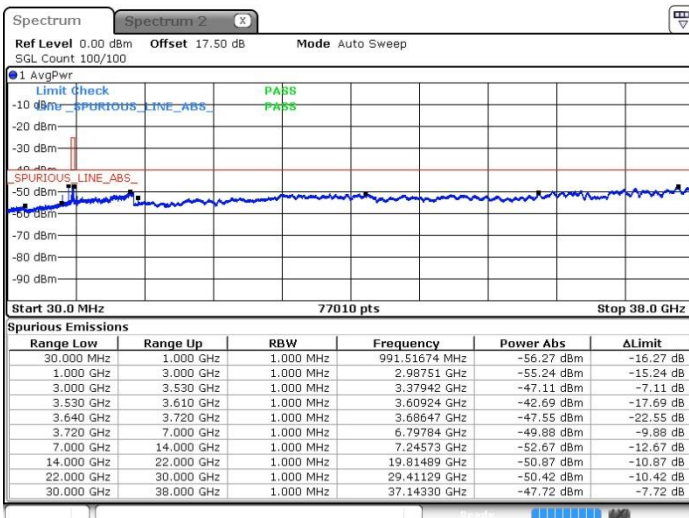
Date: 22.MAR.2019 00:30:05

Lowest Channel / FullRB

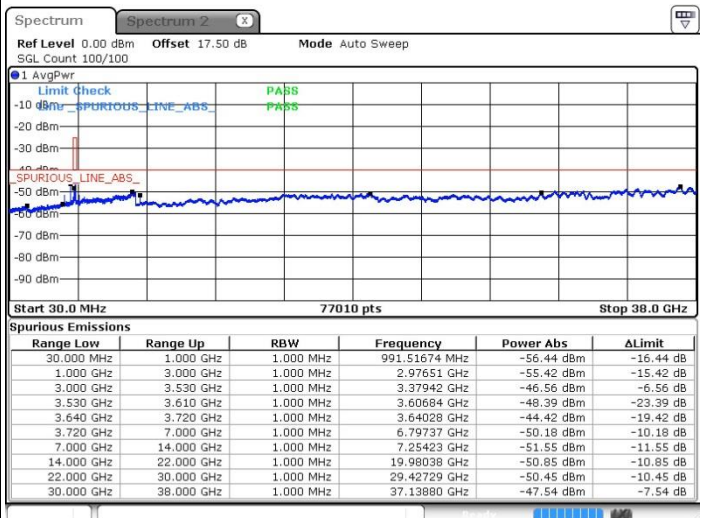


Date: 21.MAR.2019 23:46:31

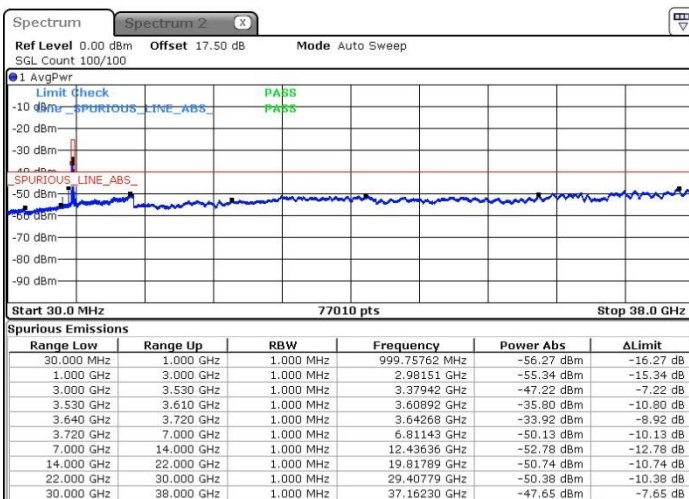
N/A

LTE Band 48 / 5MHz
64QAM
Middle Channel / 1RB0
Middle Channel / 1RBmax


Date: 22 MAR 2019 00:18:50



Date: 22 MAR 2019 00:31:06

Middle Channel / FullIRB
N/A


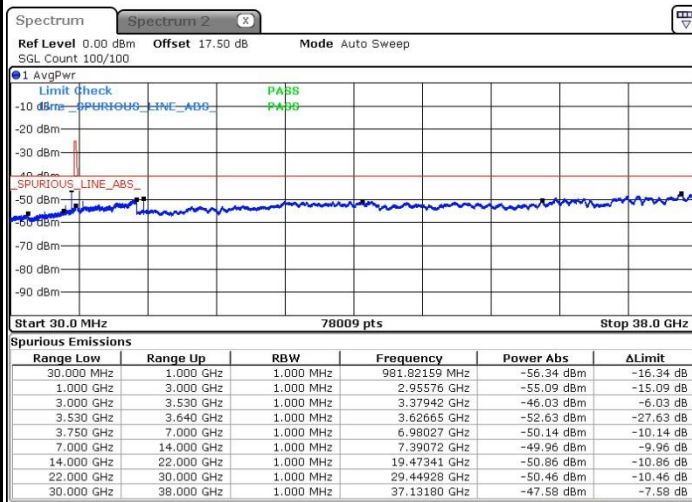
Date: 22 MAR 2019 00:21:53



LTE Band 48 / 5MHz

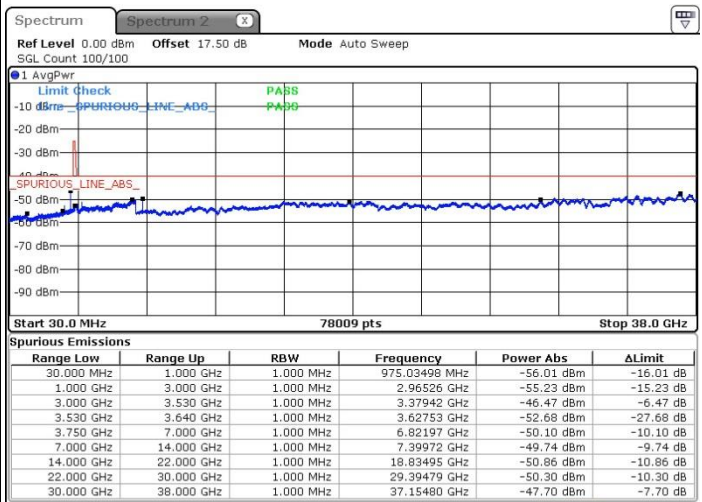
64QAM

Highest Channel / 1RB0



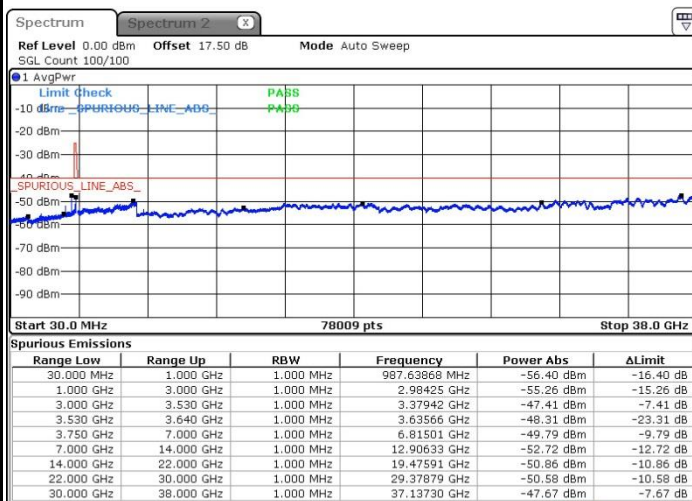
Date: 21.MAR.2019 23:43:26

Highest Channel / 1RBmax



Date: 22.MAR.2019 00:36:13

Highest Channel / FullIRB



Date: 22.MAR.2019 00:27:00

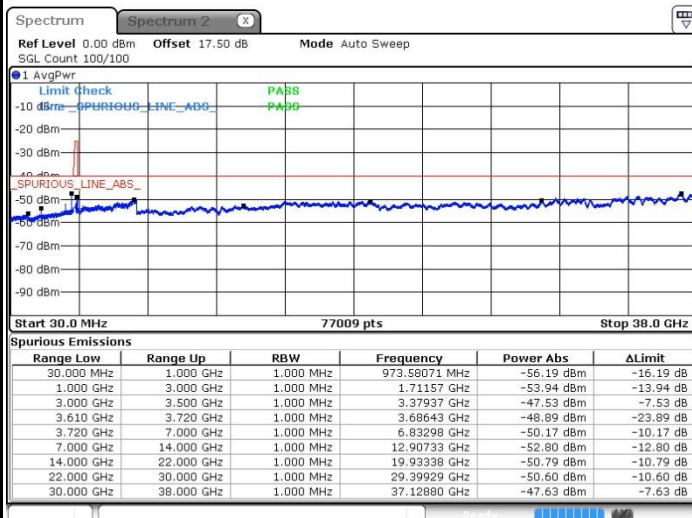
N/A



LTE Band 48 / 10MHz

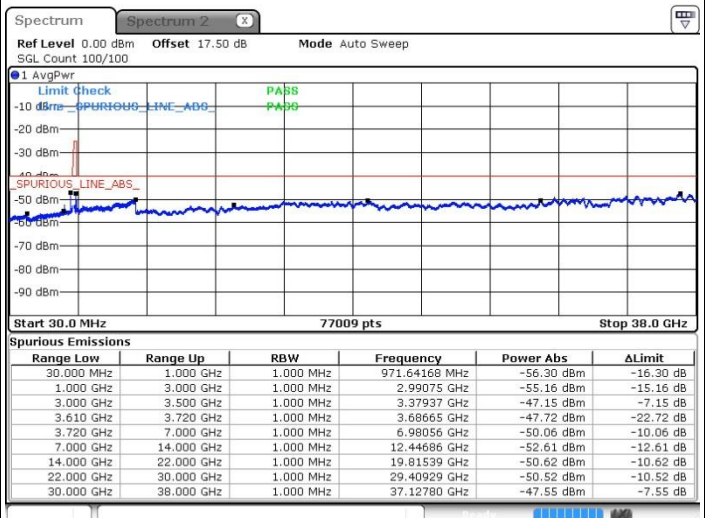
64QAM

Lowest Channel / 1RB0



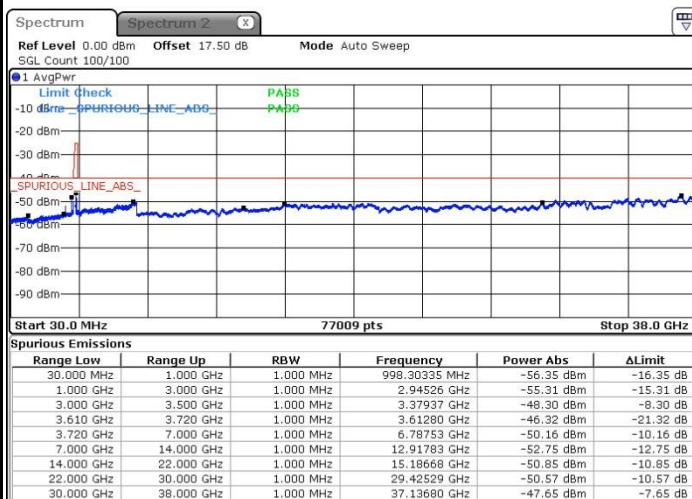
Date: 22 MAR 2019 00:37:15

Lowest Channel / 1RBmax



Date: 22 MAR 2019 00:55:44

Lowest Channel / FullRB



Date: 22 MAR 2019 00:46:30

N/A

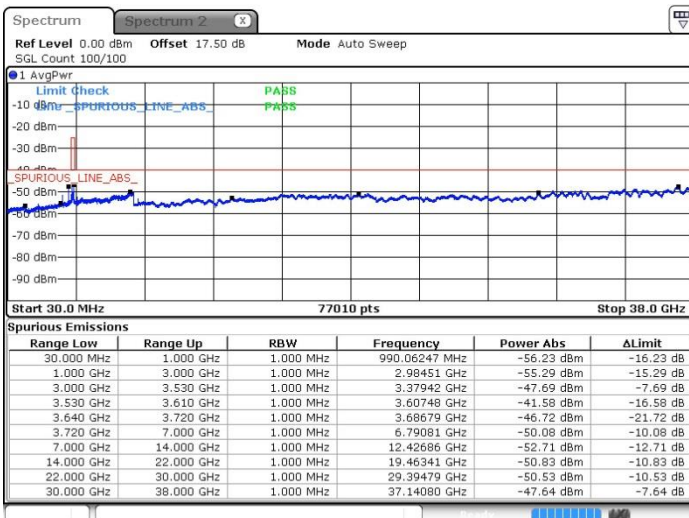


LTE Band 48 / 10MHz

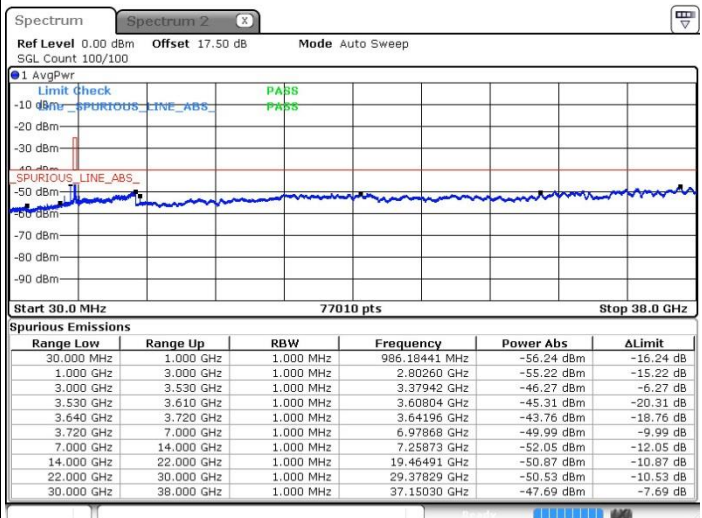
64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



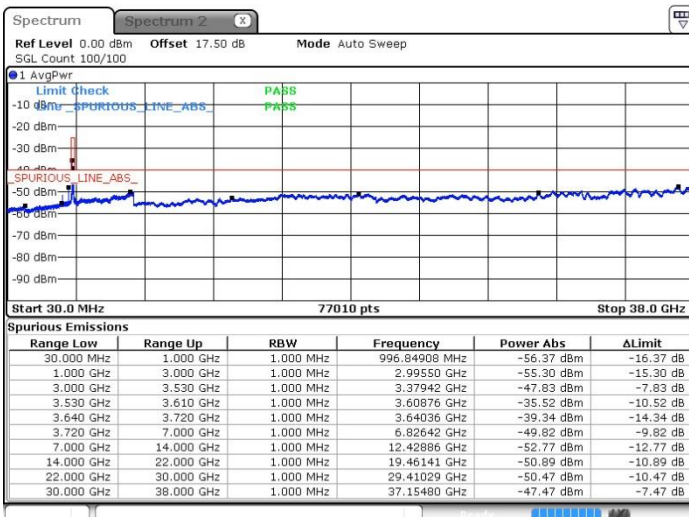
Date: 22 MAR 2019 00:42:22



Date: 22 MAR 2019 01:00:51

Middle Channel / FullIRB

N/A



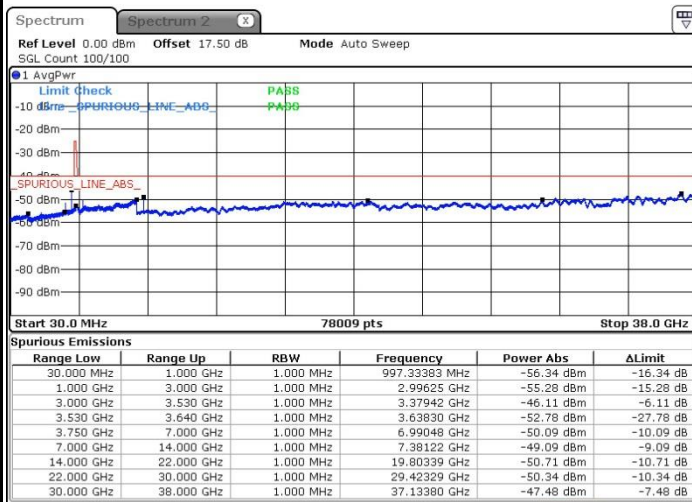
Date: 22 MAR 2019 00:51:37



LTE Band 48 / 10MHz

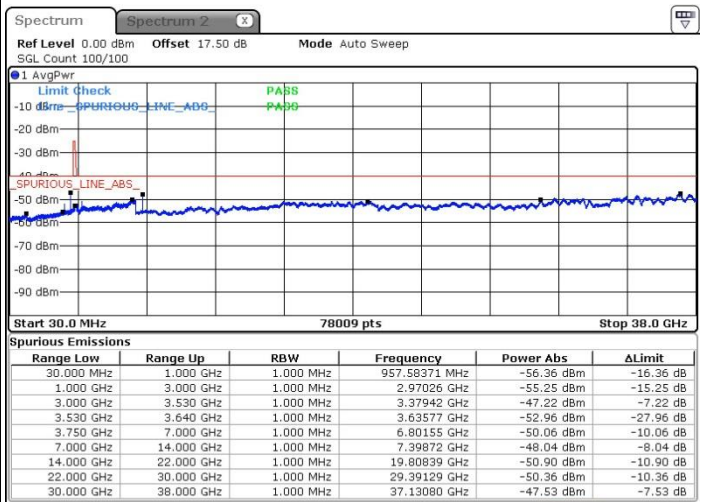
64QAM

Highest Channel / 1RB0



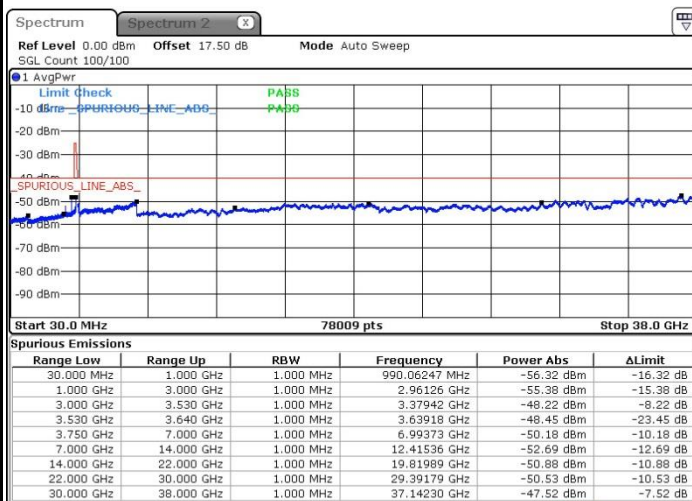
Date: 22.MAR.2019 00:43:24

Highest Channel / 1RBmax



Date: 22.MAR.2019 01:01:52

Highest Channel / FullIRB



Date: 22.MAR.2019 00:52:38

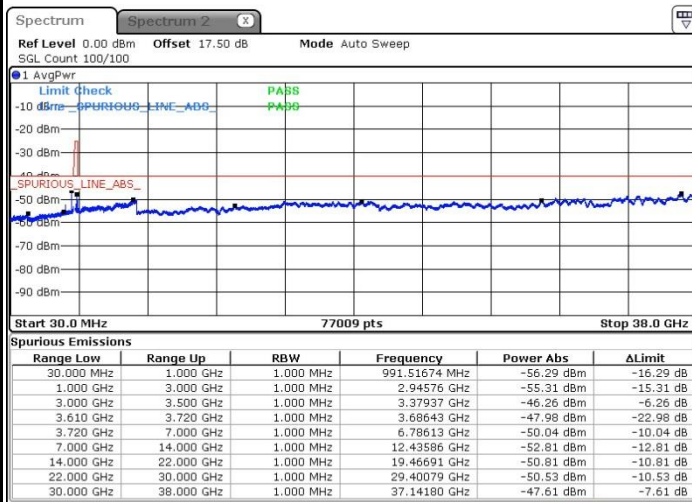
N/A



LTE Band 48 / 15MHz

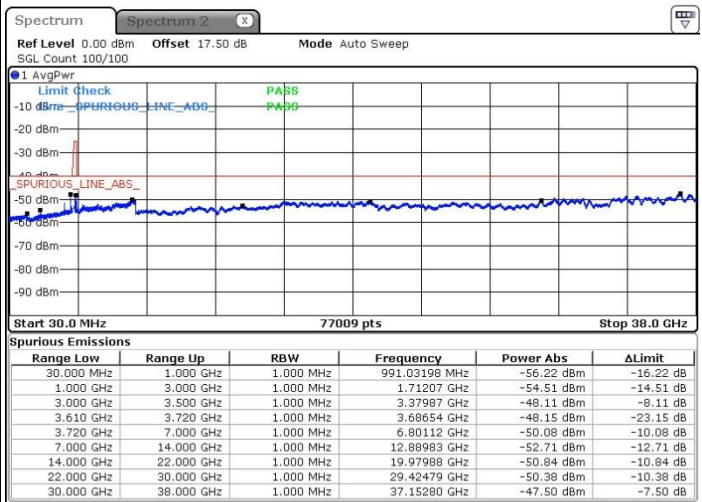
64QAM

Lowest Channel / 1RB0



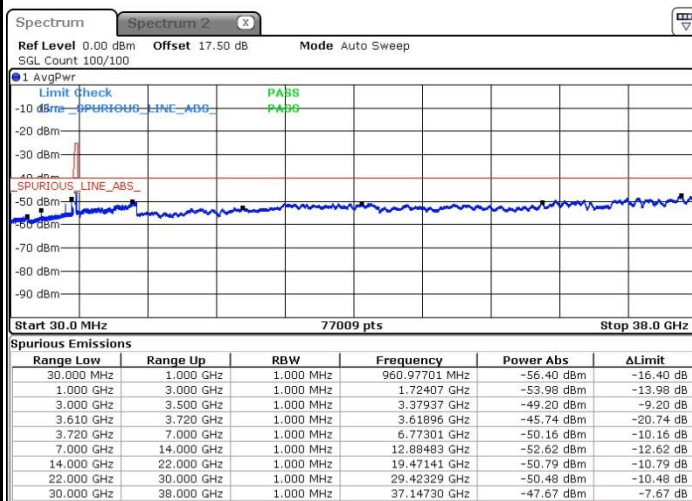
Date: 22.MAR.2019 01:07:02

Lowest Channel / 1RBmax



Date: 22.MAR.2019 01:25:30

Lowest Channel / FullRB



Date: 22.MAR.2019 01:16:17

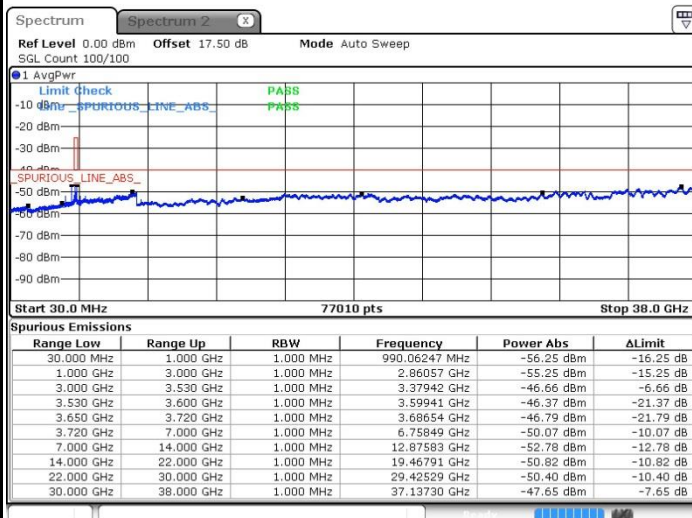
N/A



LTE Band 48 / 15MHz

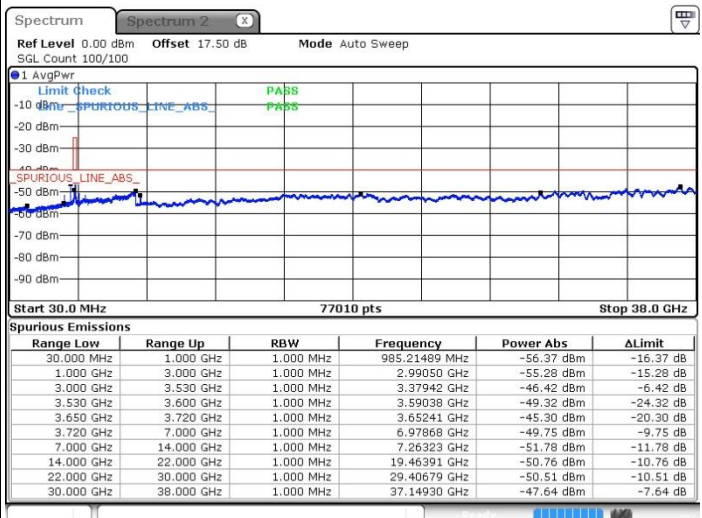
64QAM

Middle Channel / 1RB0



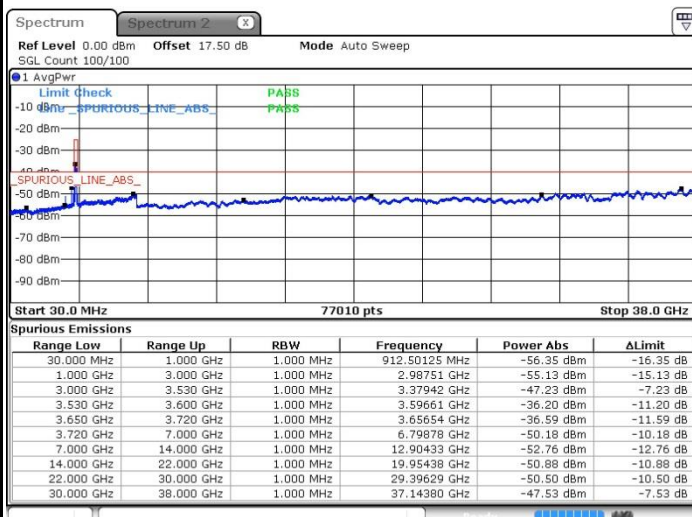
Date: 22 MAR 2019 01:08:03

Middle Channel / 1RBmax



Date: 22 MAR 2019 01:26:32

Middle Channel / FullIRB



Date: 22 MAR 2019 01:17:18

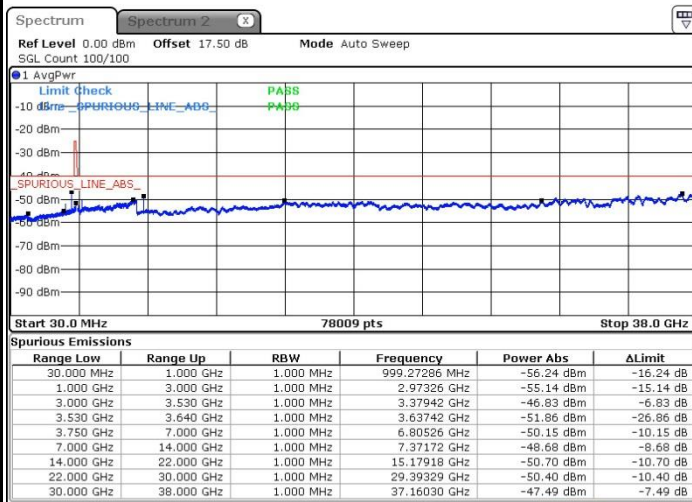
N/A



LTE Band 48 / 15MHz

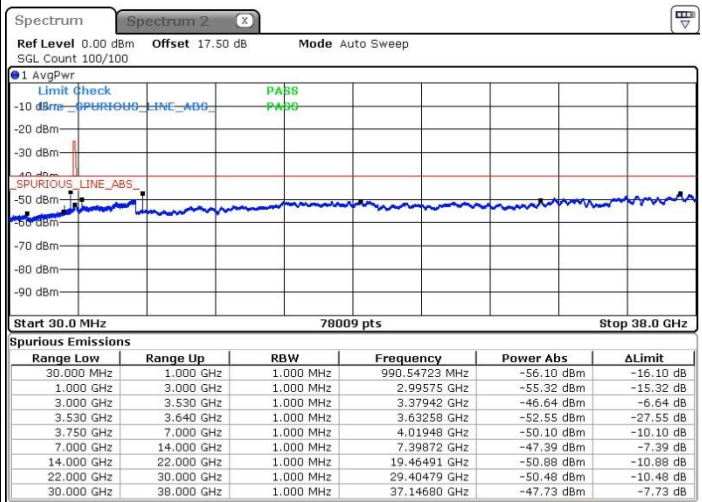
64QAM

Highest Channel / 1RB0



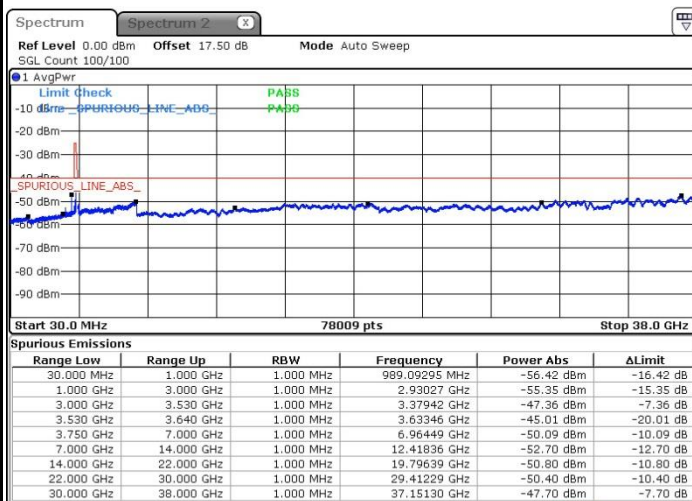
Date: 22.MAR.2019 01:13:12

Highest Channel / 1RBmax



Date: 22.MAR.2019 01:31:39

Highest Channel / FullIRB



Date: 22.MAR.2019 01:22:25

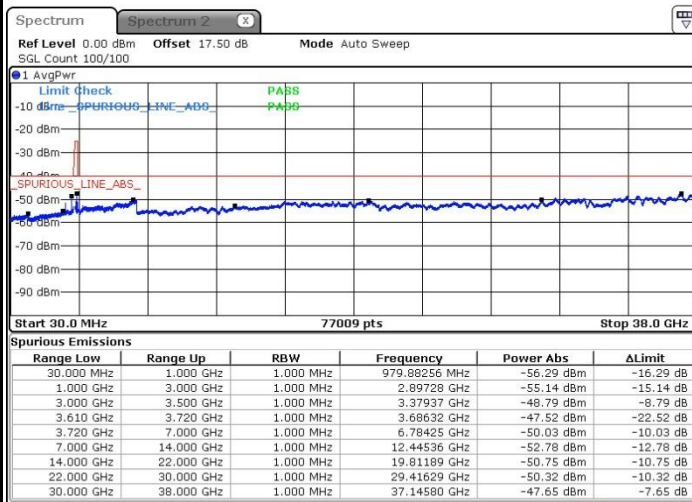
N/A



LTE Band 48 / 20MHz

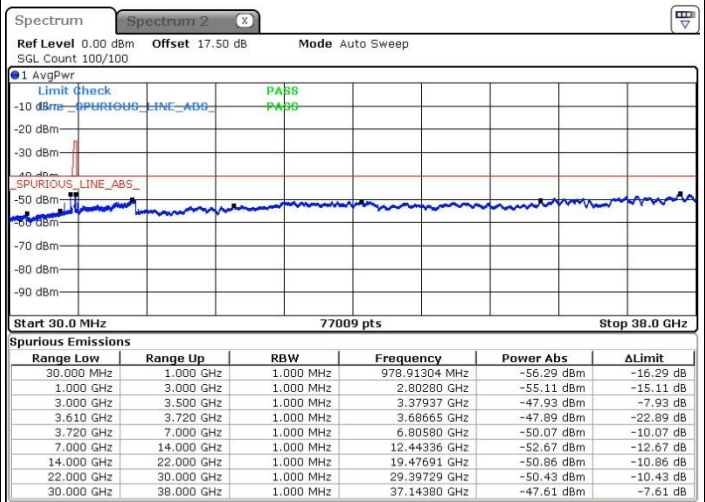
64QAM

Lowest Channel / 1RB0



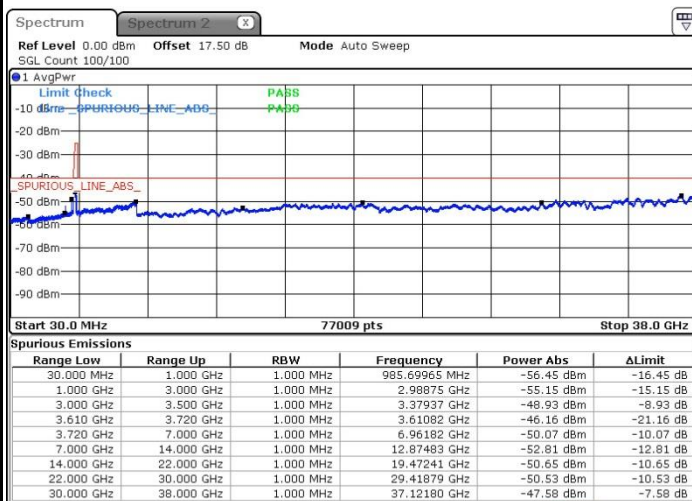
Date: 22.MAR.2019 01:41:55

Lowest Channel / 1RBmax



Date: 22.MAR.2019 01:51:09

Lowest Channel / FullRB



Date: 22.MAR.2019 01:32:41

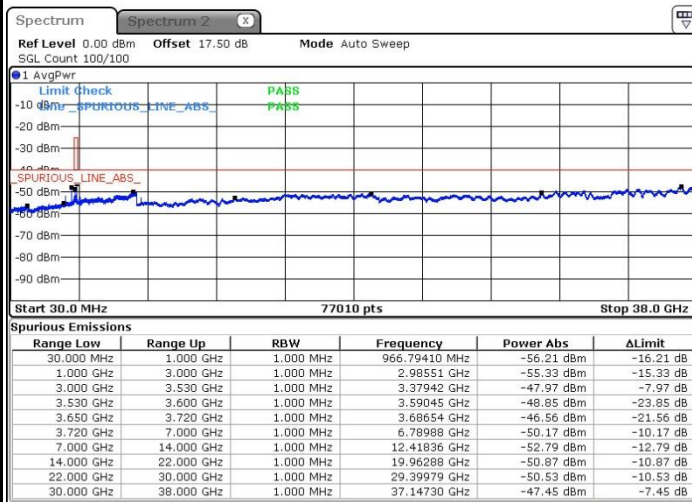
N/A



LTE Band 48 / 20MHz

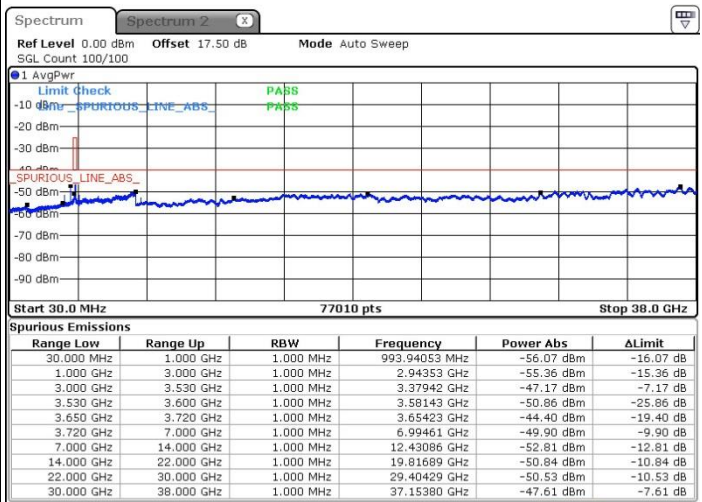
64QAM

Middle Channel / 1RB0



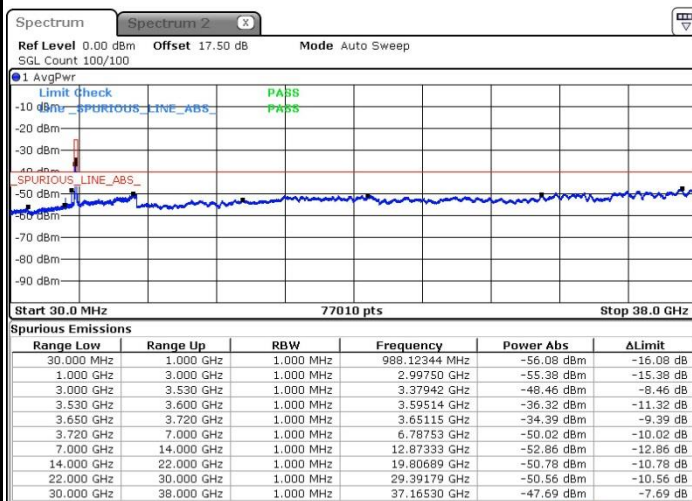
Date: 22.MAR.2019 01:47:02

Middle Channel / 1RBmax



Date: 22.MAR.2019 01:56:16

Middle Channel / FullIRB



Date: 22.MAR.2019 01:37:49

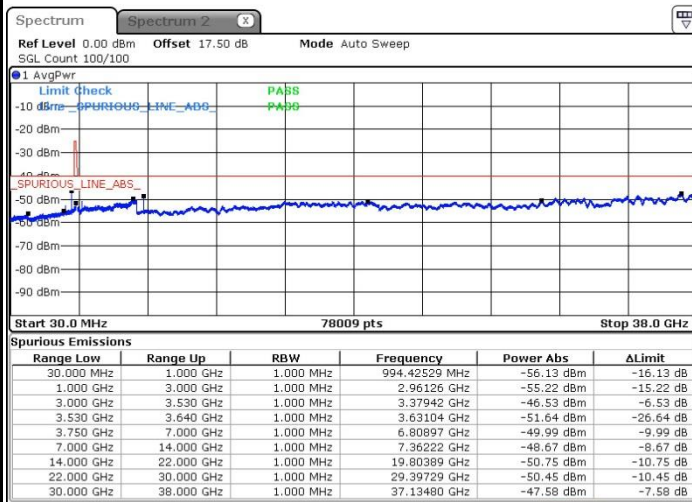
N/A



LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0



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	0.0005	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of EIRP and Radiated Test

EIRP

<Reporting Only>

LTE Band 48 / 5MHz (Average) (GT - LC = -2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.35	0.2163	21.35	0.1365
Middle		1	0	23.39	0.2183	21.39	0.1377
Highest		1	0	23.46	0.2218	21.46	0.1400
Lowest	16QAM	1	0	22.46	0.1762	20.46	0.1112
Middle		1	0	22.71	0.1866	20.71	0.1178
Highest		1	0	22.34	0.1714	20.34	0.1081
Lowest	64QAM	1	0	21.75	0.1496	19.75	0.0944
Middle		1	0	21.77	0.1503	19.77	0.0948
Highest		1	0	21.92	0.1556	19.92	0.0982
Limit				Result		PASS	

LTE Band 48 / 10MHz (Average) (GT - LC = -2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.24	0.2109	21.24	0.1330
Middle		1	0	23.34	0.2158	21.34	0.1361
Highest		1	0	23.40	0.2188	21.40	0.1380
Lowest	16QAM	1	0	22.27	0.1687	20.27	0.1064
Middle		1	0	22.35	0.1718	20.35	0.1084
Highest		1	0	22.42	0.1746	20.42	0.1102
Lowest	64QAM	1	0	21.67	0.1469	19.67	0.0927
Middle		1	0	21.85	0.1531	19.85	0.0966
Highest		1	0	21.78	0.1507	19.78	0.0951
Limit				Result		PASS	

LTE Band 48 / 15MHz (Average) (GT - LC = -2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	23.45	0.2213	21.45	0.1396
Middle		1	74	23.32	0.2148	21.32	0.1355
Highest		1	74	23.39	0.2183	21.39	0.1377
Lowest	16QAM	1	0	22.41	0.1742	20.41	0.1099
Middle		1	0	22.62	0.1828	20.62	0.1153
Highest		1	0	22.44	0.1754	20.44	0.1107
Lowest	64QAM	1	0	21.69	0.1476	19.69	0.0931
Middle		1	0	21.88	0.1542	19.88	0.0973
Highest		1	0	21.80	0.1514	19.80	0.0955
Limit				Result		PASS	



LTE Band 48 / 20MHz (Average) (GT - LC = -2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.47	0.2223	21.47	0.1403
Middle		1	0	23.45	0.2213	21.45	0.1396
Highest		1	0	23.39	0.2183	21.39	0.1377
Lowest	16QAM	1	0	22.35	0.1718	20.35	0.1084
Middle		1	0	22.45	0.1758	20.45	0.1109
Highest		1	0	22.49	0.1774	20.49	0.1119
Lowest	64QAM	1	0	21.75	0.1496	19.75	0.0944
Middle		1	0	21.89	0.1545	19.89	0.0975
Highest		1	0	21.87	0.1538	19.87	0.0971
Limit				Result		PASS	