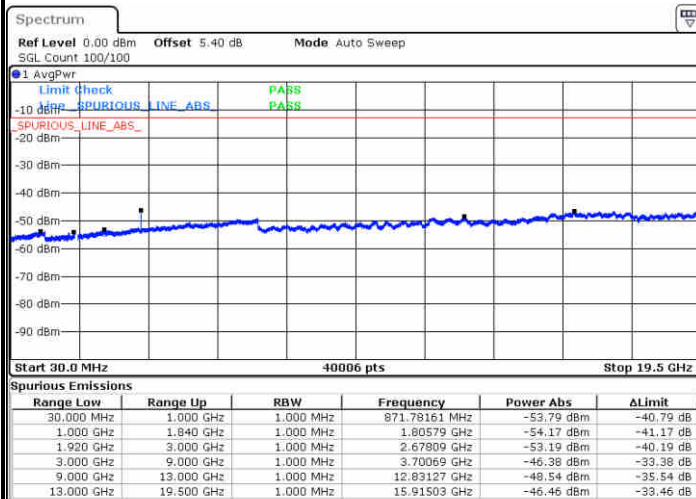




Conducted Spurious Emission

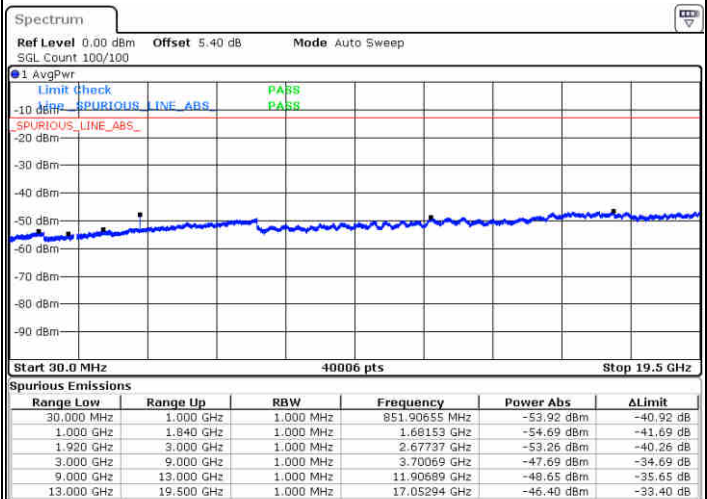
LTE Band 2 / 1.4MHz

Lowest Channel / QPSK



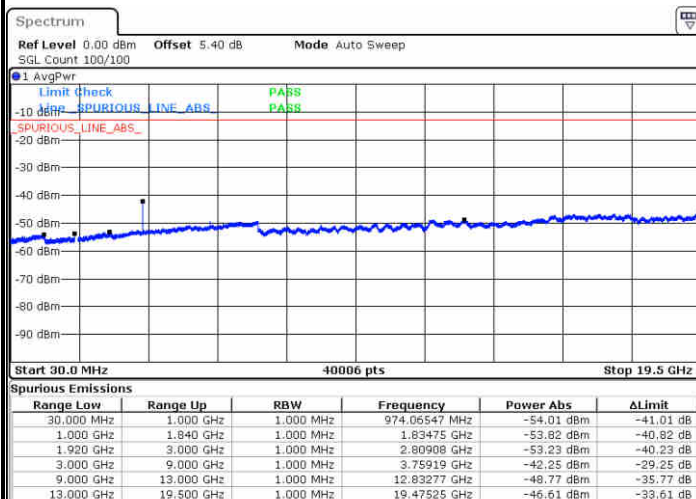
Date: 16 MAY 2020 22:58:04

Lowest Channel / 16QAM



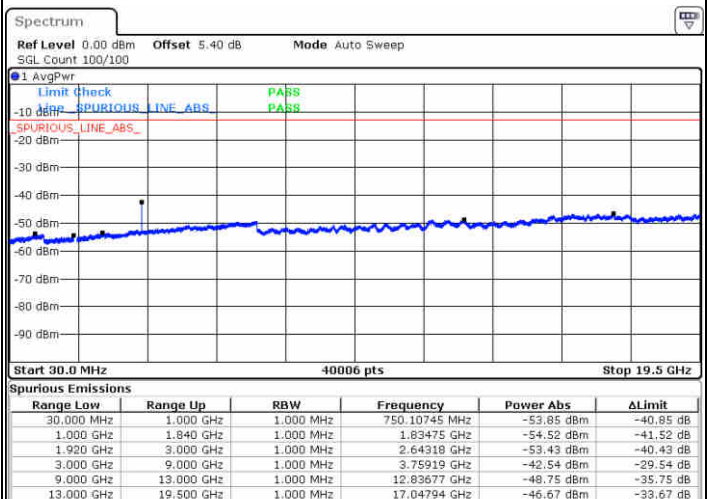
Date: 16 MAY 2020 23:05:34

Middle Channel / QPSK



Date: 16 MAY 2020 23:07:09

Middle Channel / 16QAM

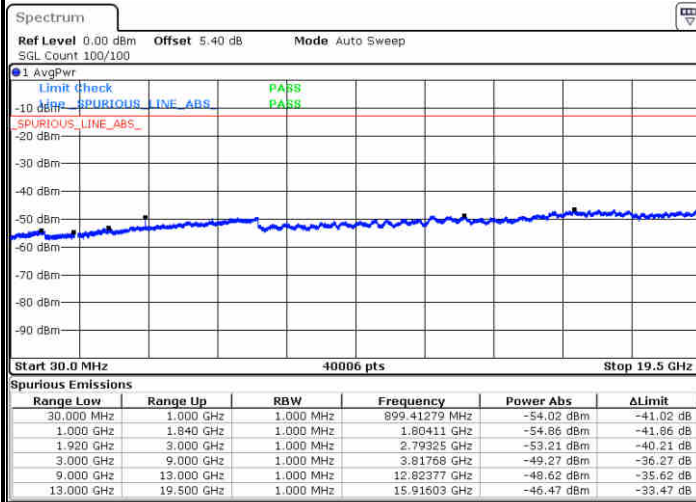


Date: 16 MAY 2020 23:08:04



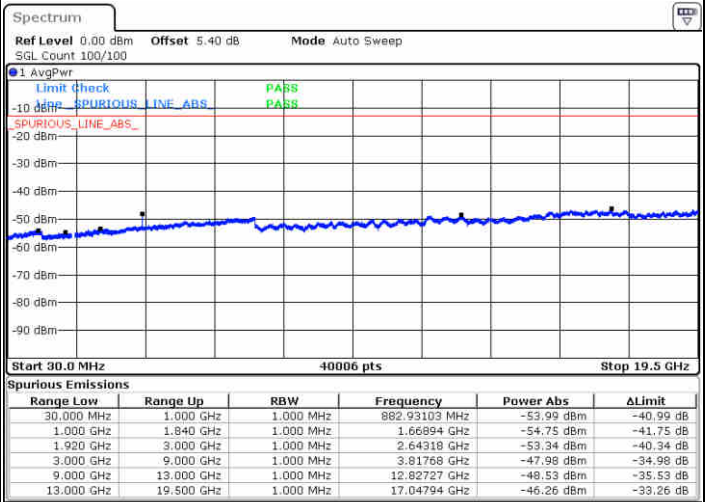
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 16 MAY 2020 23:14:09

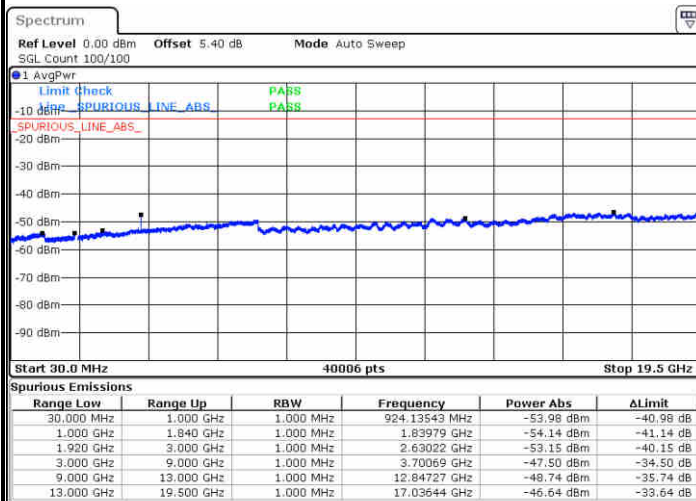
Highest Channel / 16QAM



Date: 16 MAY 2020 23:15:04

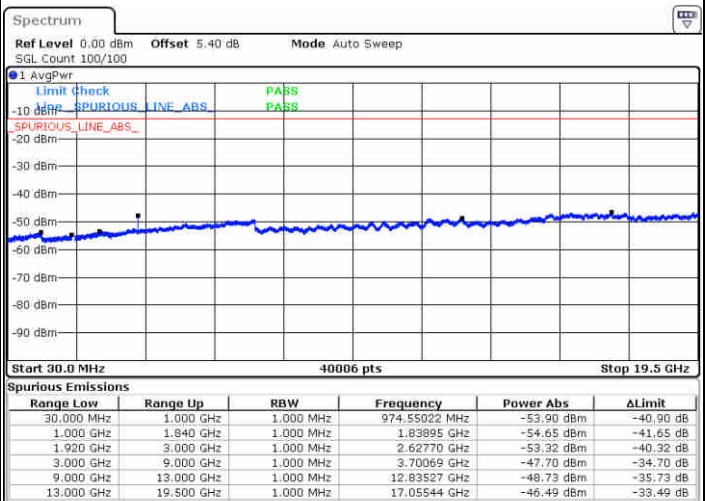
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 16 MAY 2020 23:21:09

Lowest Channel / 16QAM

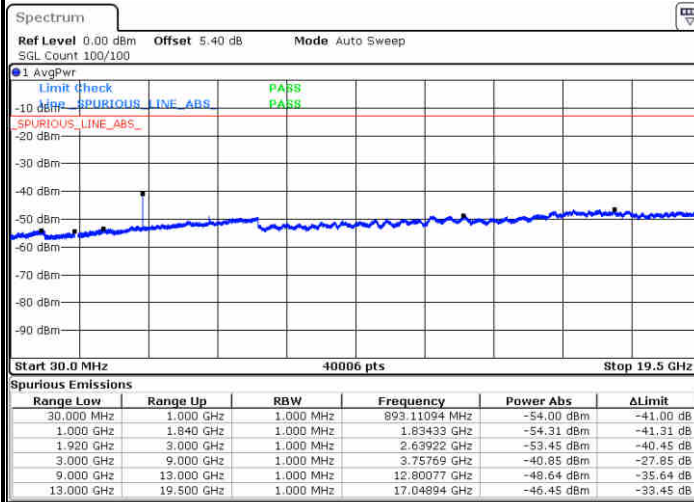


Date: 16 MAY 2020 23:22:04



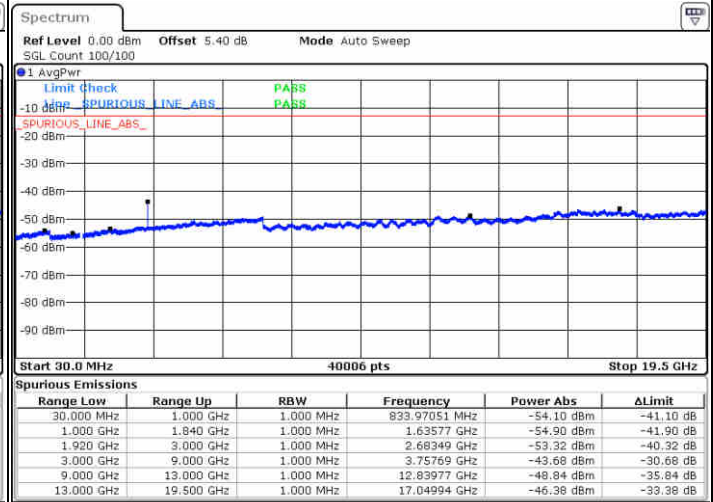
LTE Band 2 / 3MHz

Middle Channel / QPSK



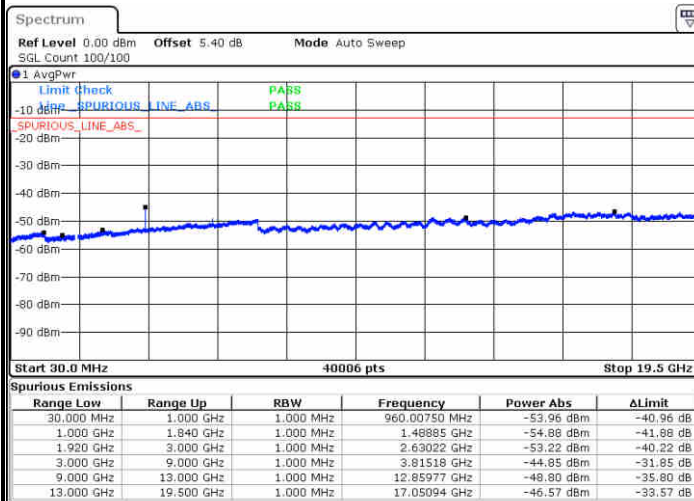
Date: 16 MAY 2020 23:23:39

Middle Channel / 16QAM



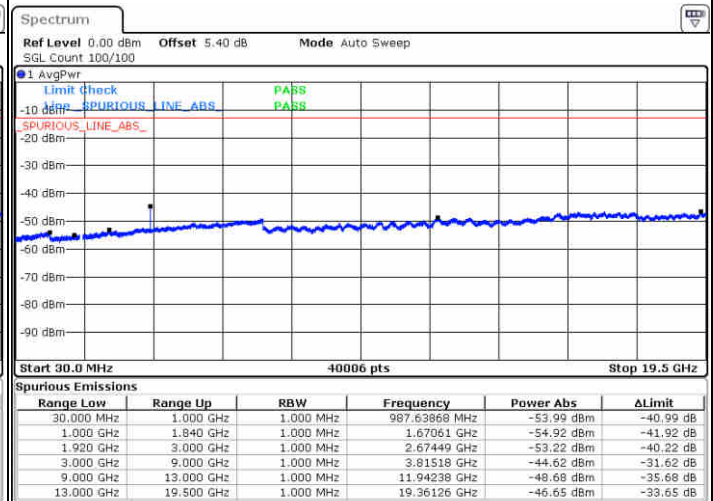
Date: 16 MAY 2020 23:24:34

Highest Channel / QPSK



Date: 16 MAY 2020 23:30:38

Highest Channel / 16QAM

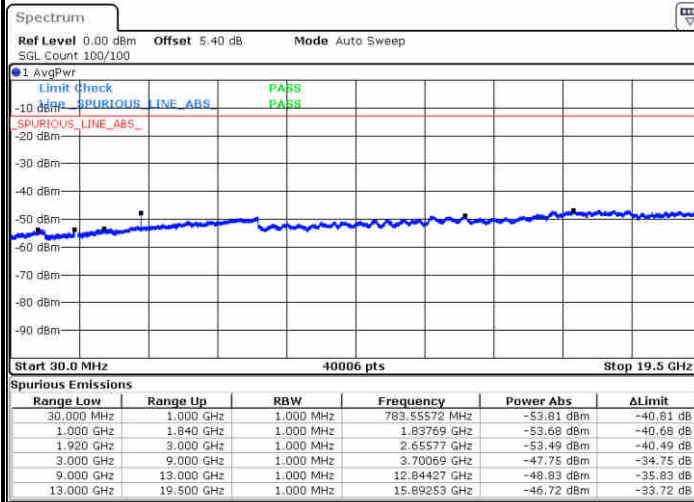


Date: 16 MAY 2020 23:31:33



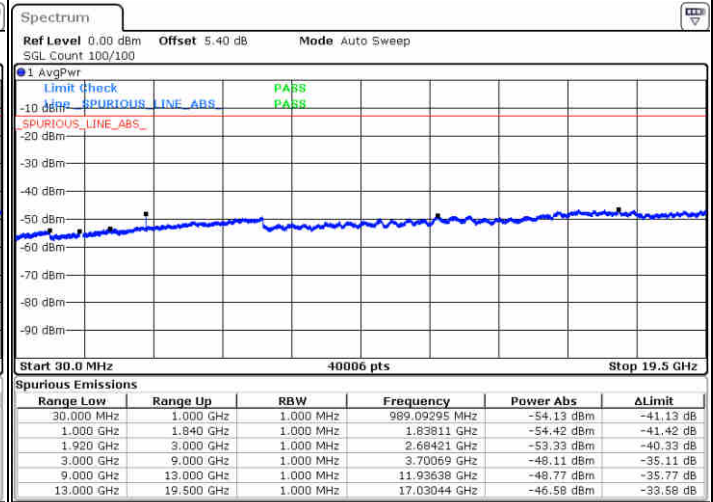
LTE Band 2 / 5MHz

Lowest Channel / QPSK



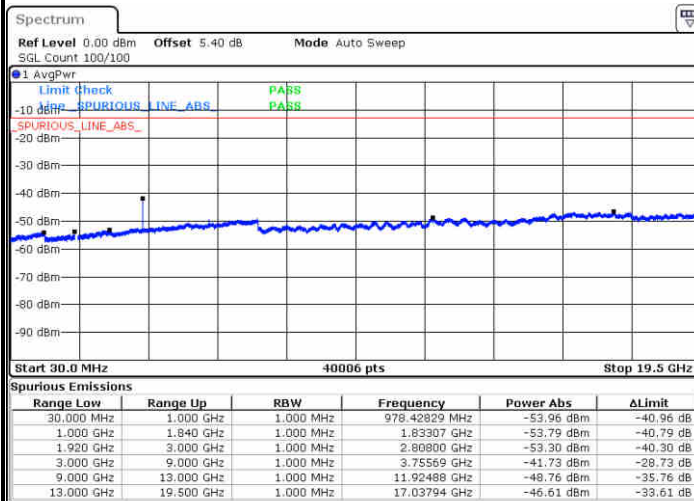
Date: 16 MAY 2020 23:37:38

Lowest Channel / 16QAM



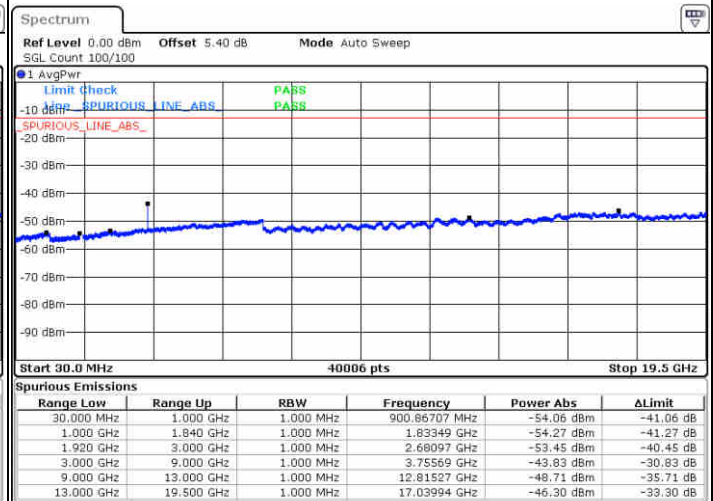
Date: 16 MAY 2020 23:38:33

Middle Channel / QPSK



Date: 16 MAY 2020 23:40:08

Middle Channel / 16QAM

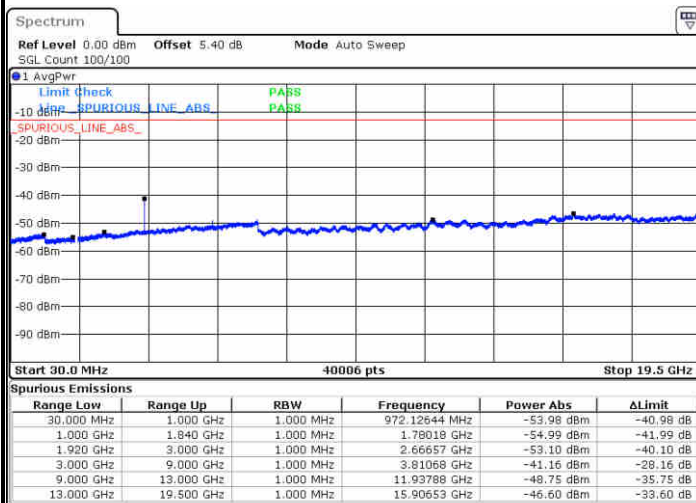


Date: 16 MAY 2020 23:41:03



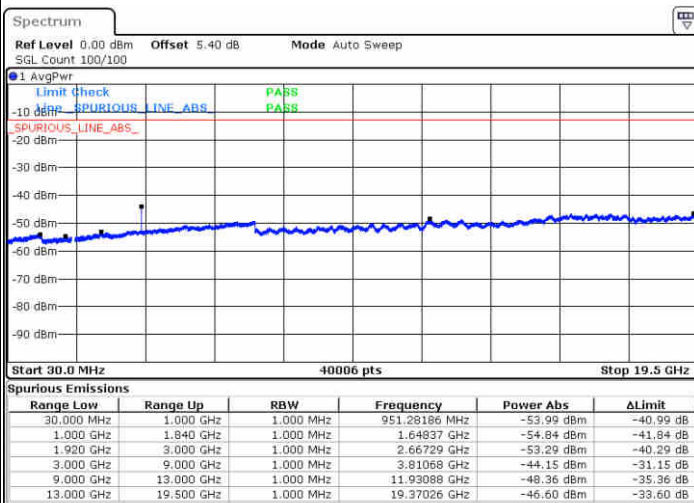
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 16 MAY 2020 23:47:08

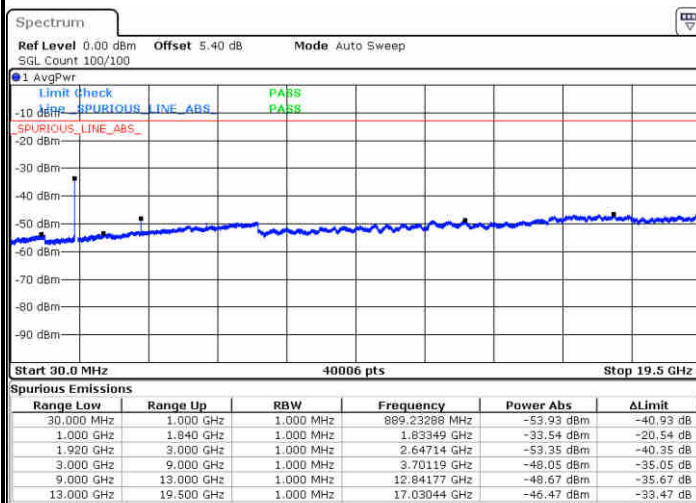
Highest Channel / 16QAM



Date: 16 MAY 2020 23:48:03

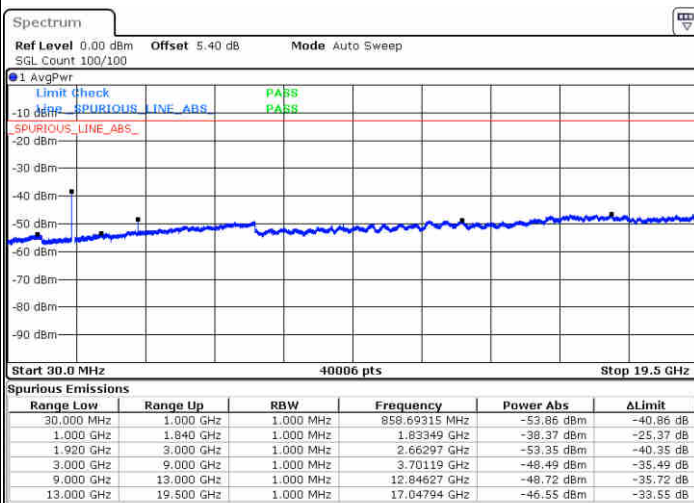
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 16 MAY 2020 23:54:08

Lowest Channel / 16QAM

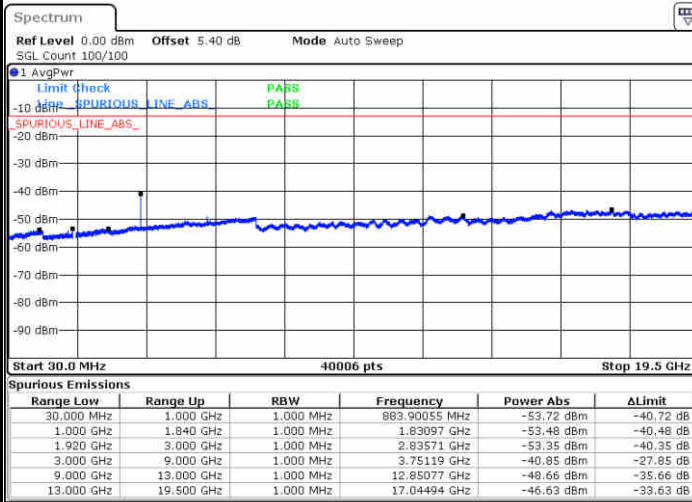


Date: 16 MAY 2020 23:55:03



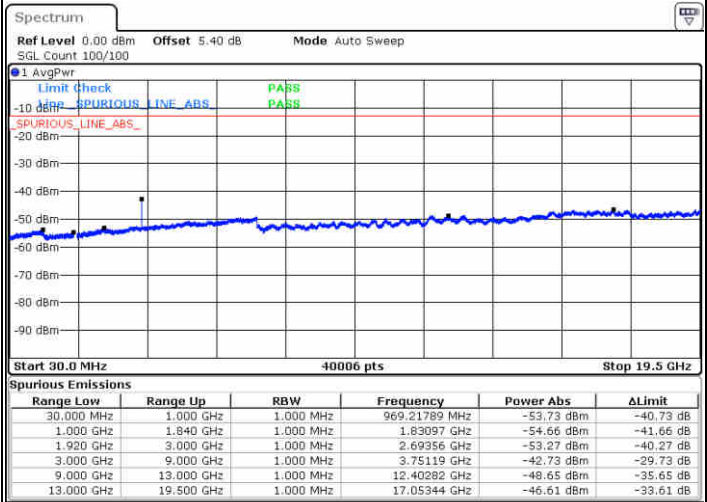
LTE Band 2 / 10MHz

Middle Channel / QPSK



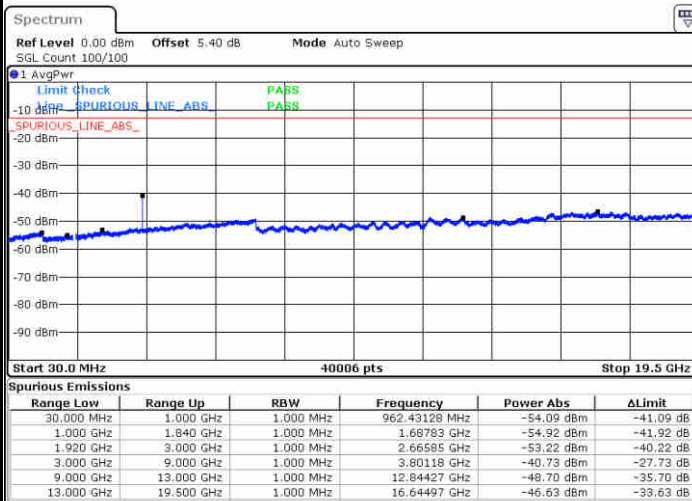
Date: 16 MAY 2020 23:56:38

Middle Channel / 16QAM



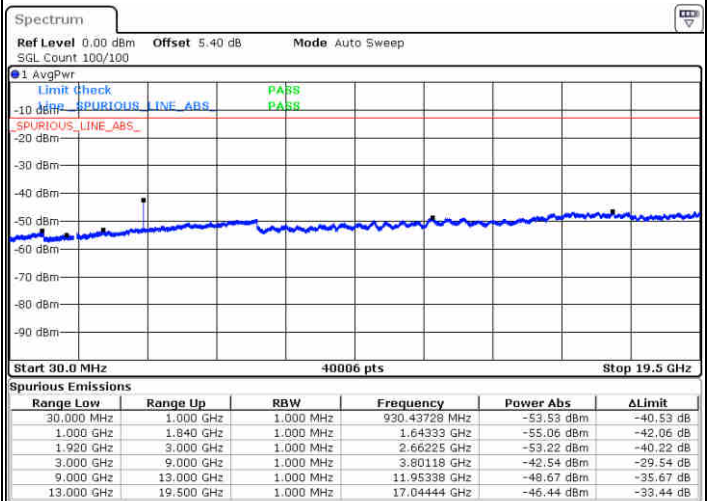
Date: 16 MAY 2020 23:57:33

Highest Channel / QPSK



Date: 17 MAY 2020 00:03:38

Highest Channel / 16QAM

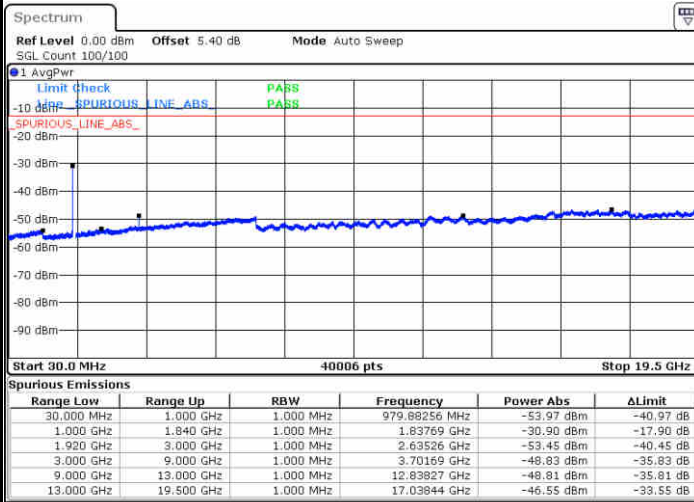


Date: 17 MAY 2020 00:04:33



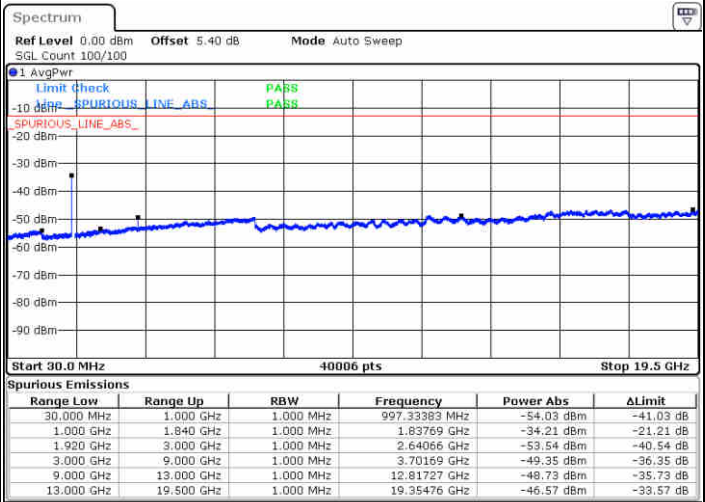
LTE Band 2 / 15MHz

Lowest Channel / QPSK



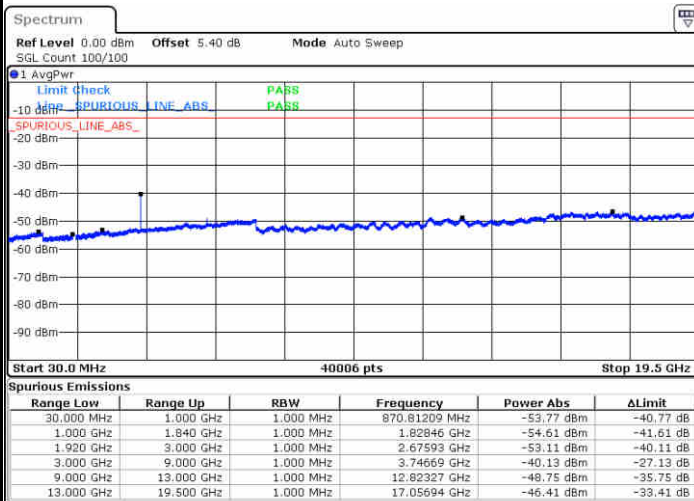
Date: 17.MAY.2020 00:10:38

Lowest Channel / 16QAM



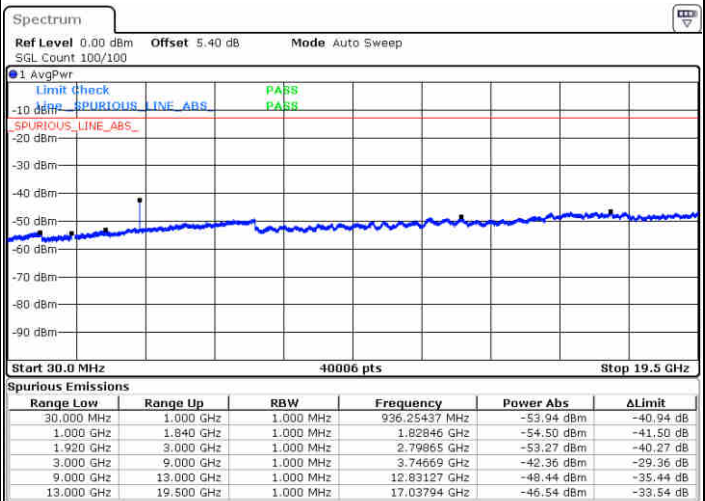
Date: 17.MAY.2020 00:11:33

Middle Channel / QPSK



Date: 17.MAY.2020 00:13:08

Middle Channel / 16QAM

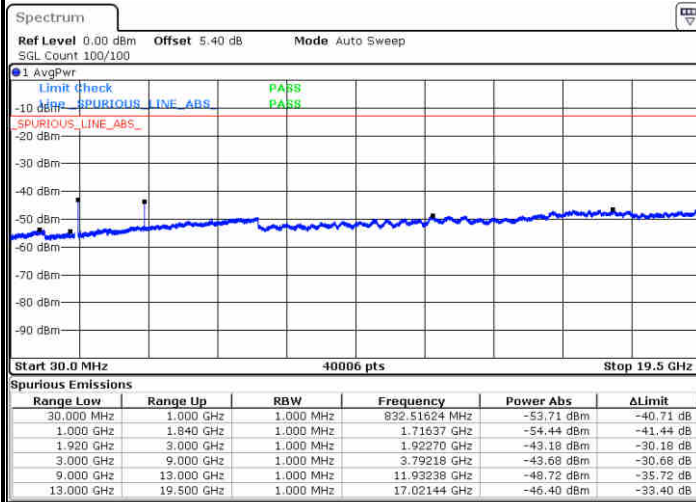


Date: 17.MAY.2020 00:14:02



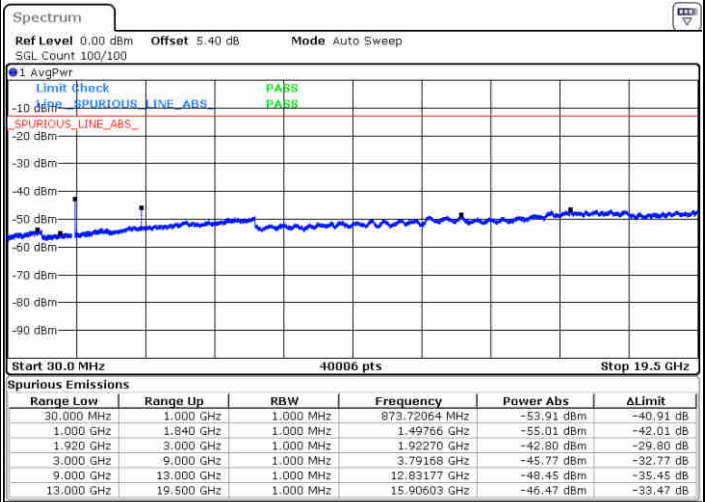
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 17 MAY 2020 00:20:07

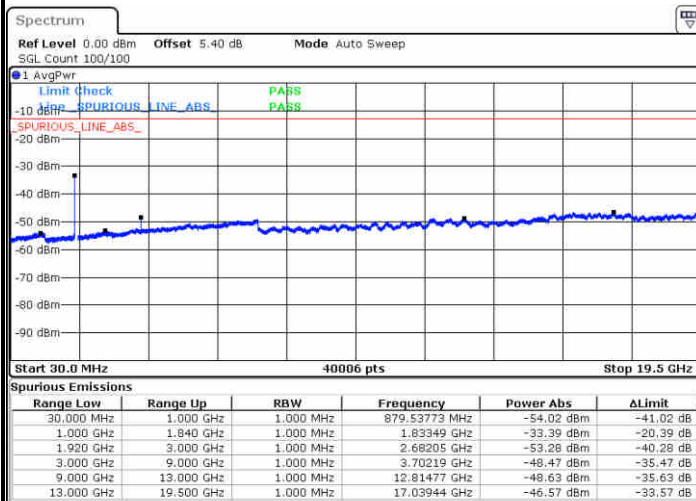
Highest Channel / 16QAM



Date: 17 MAY 2020 00:21:02

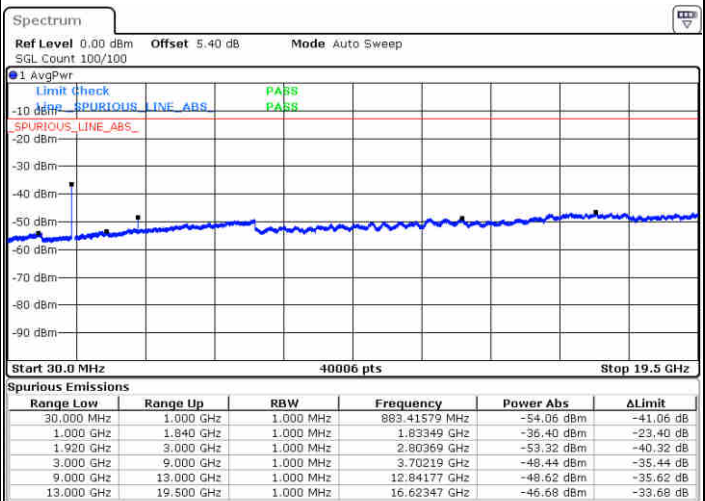
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 17 MAY 2020 00:27:07

Lowest Channel / 16QAM

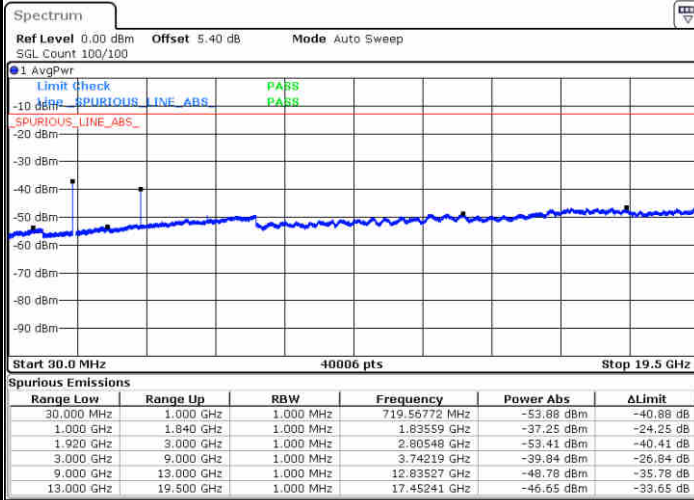


Date: 17 MAY 2020 00:28:02



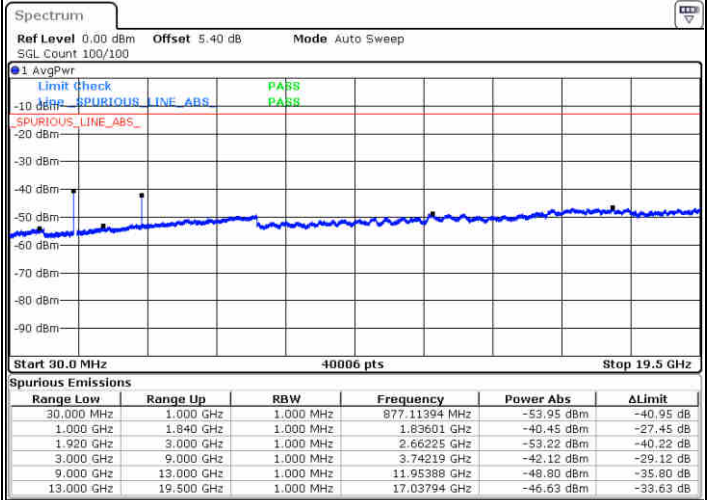
LTE Band 2 / 20MHz

Middle Channel / QPSK



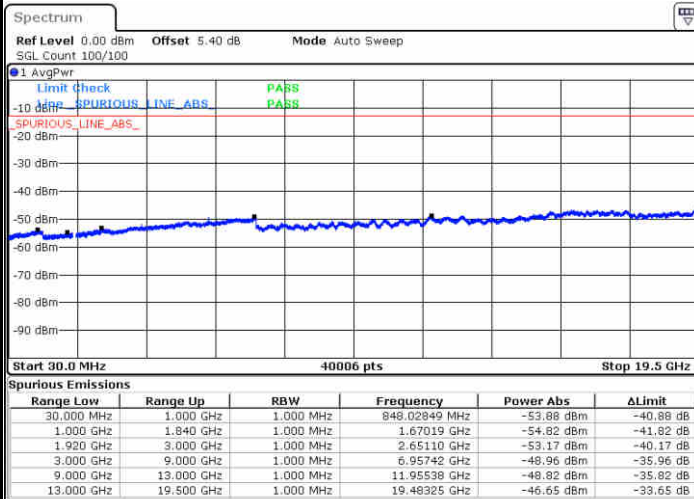
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Middle Channel / 16QAM



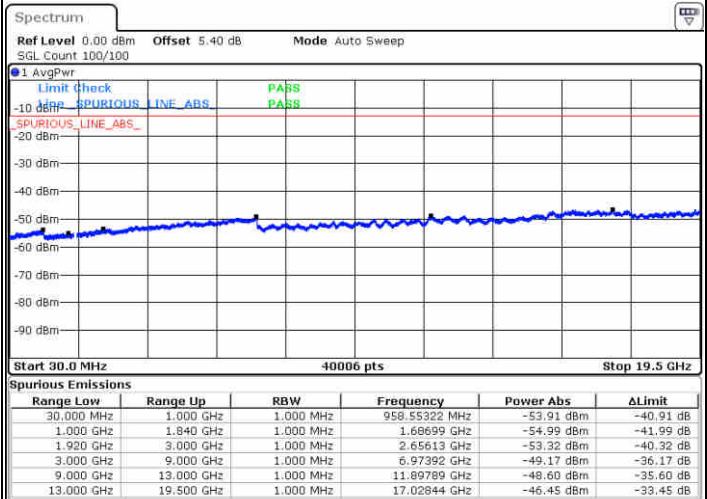
Date: 17.MAY.2020 00:30:32

Highest Channel / QPSK



Date: 17.MAY.2020 00:36:37

Highest Channel / 16QAM



Date: 17.MAY.2020 00:37:32

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0021	
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	0.0000	
20	Battery End Point	0.0032	

Note:

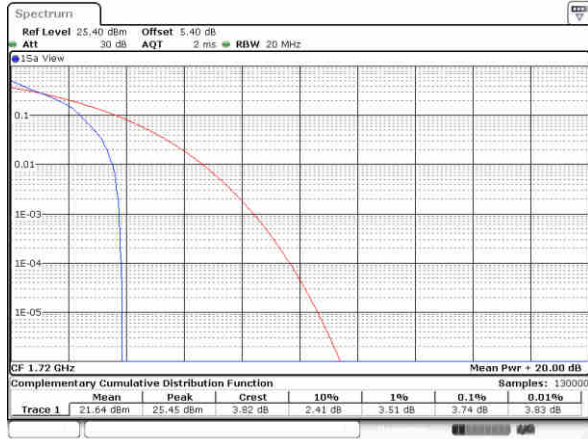
1. Normal Voltage =4 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



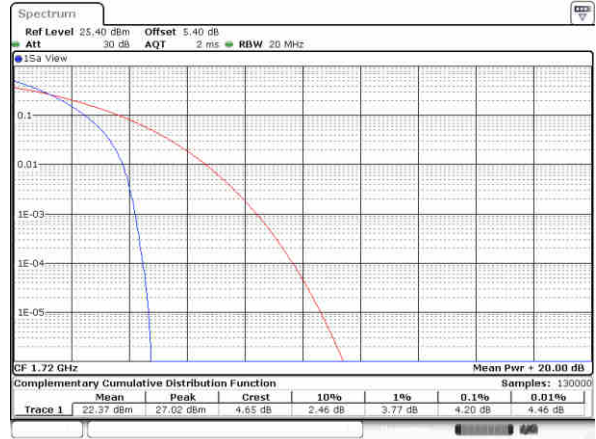
LTE Band 4

Peak-to-Average Ratio

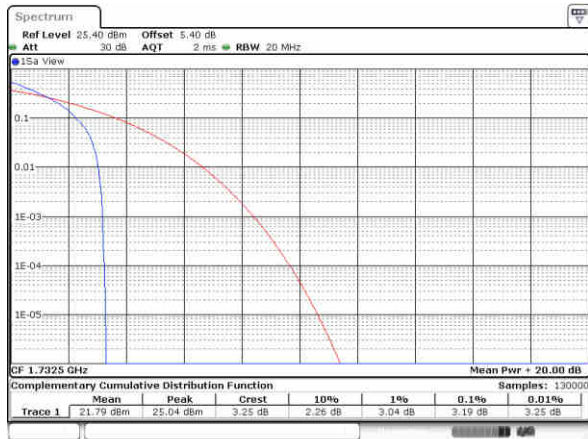
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.74	4.20	4.81	5.22	PASS
Middle CH	3.19	4.52	4.52	5.45	
Highest CH	4.03	4.46	5.25	5.54	

LTE Band 4 / 20MHz / QPSK
Lowest Channel / 1RB


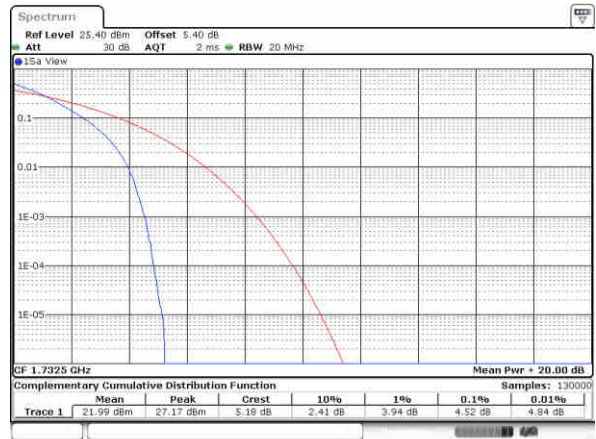
Date: 17 MAY 2020 03:21:00

Lowest Channel / Full RB


Date: 17 MAY 2020 03:20:49

Middle Channel / 1RB


Date: 17 MAY 2020 03:21:10

Middle Channel / Full RB


Date: 17 MAY 2020 03:20:39

Highest Channel / 1RB


Date: 17 MAY 2020 03:21:20

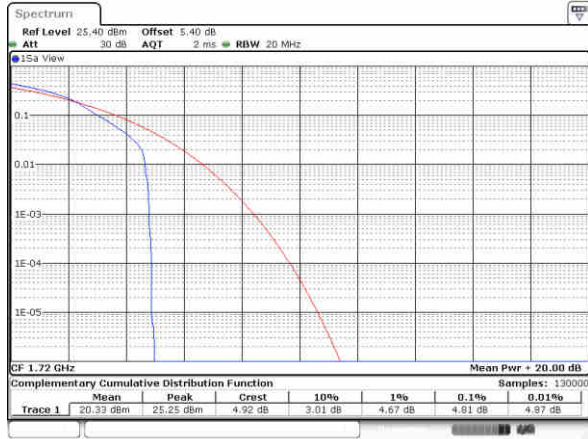
Highest Channel / Full RB


Date: 17 MAY 2020 03:20:28

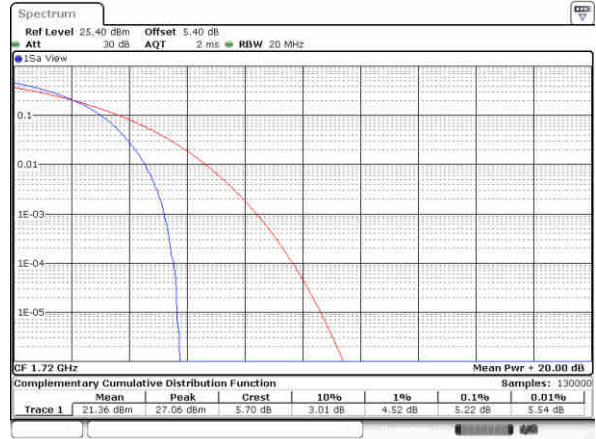


LTE Band 4 / 20MHz / 16QAM

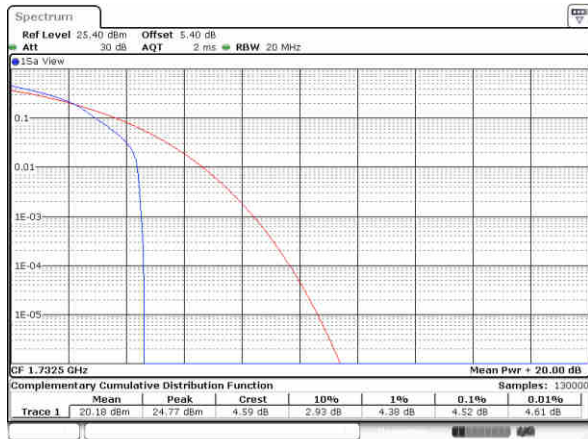
Lowest Channel / 1RB



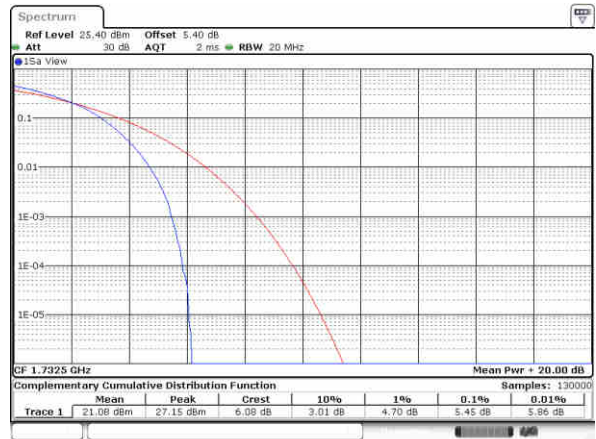
Lowest Channel / Full RB



Middle Channel / 1RB



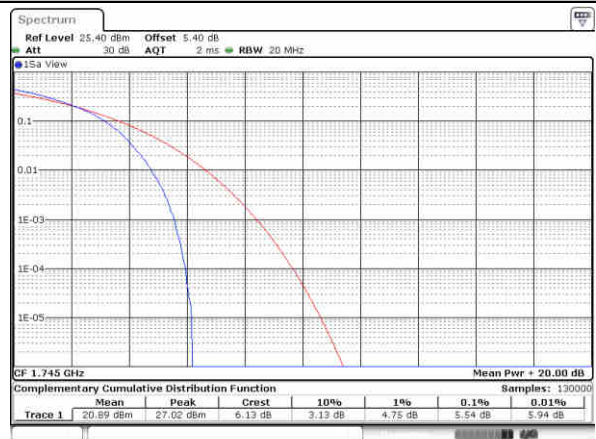
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





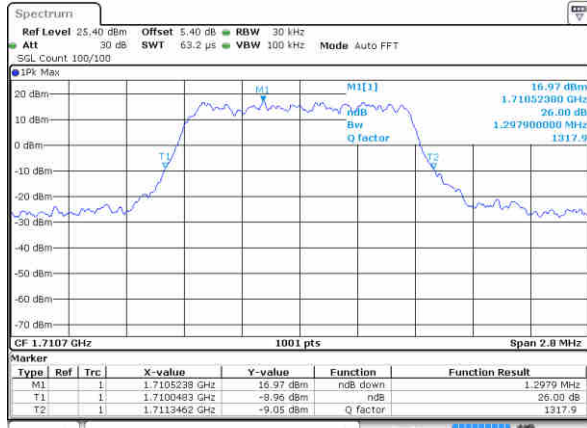
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.30	1.29	3.03	3.03	4.91	4.85	9.67	9.59	14.15	14.54	20.02	20.22
Middle CH	1.27	1.28	3.00	3.00	4.93	4.94	9.79	9.67	14.45	14.39	20.18	20.22
Highest CH	1.32	1.29	3.00	3.02	4.88	4.91	9.71	9.67	14.36	14.60	20.14	20.14

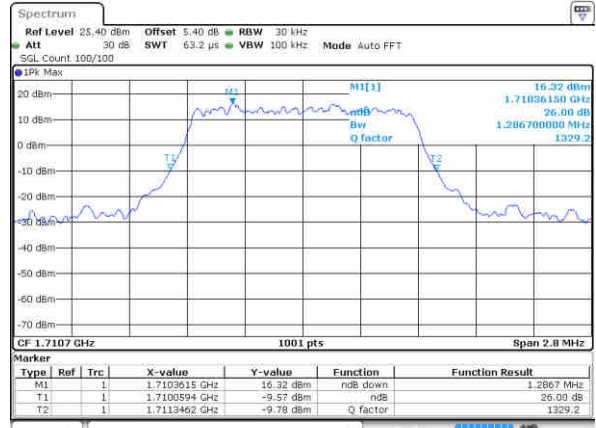


LTE Band 4

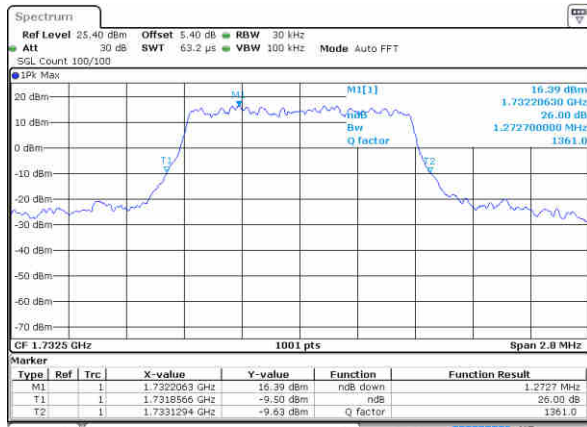
Lowest Channel / 1.4MHz / QPSK



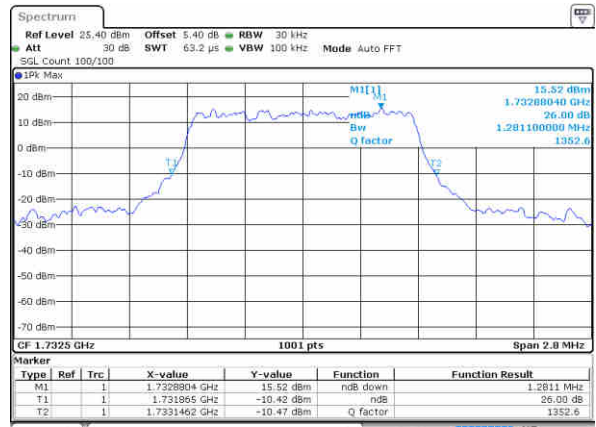
Lowest Channel / 1.4MHz / 16QAM



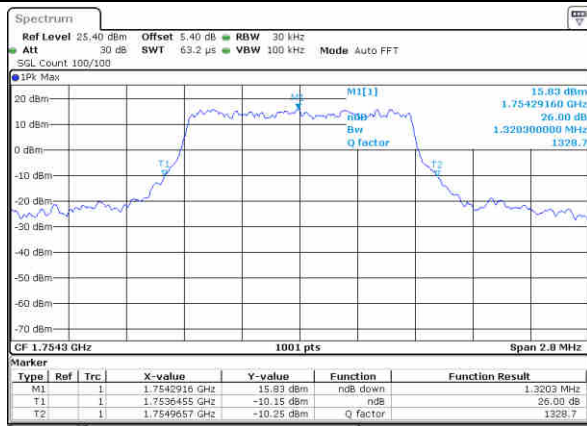
Middle Channel / 1.4MHz / QPSK



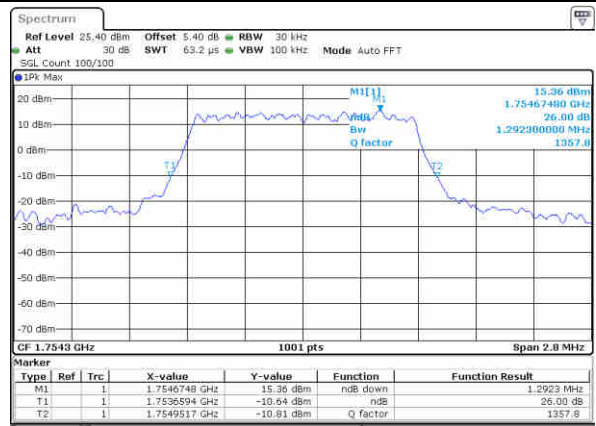
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



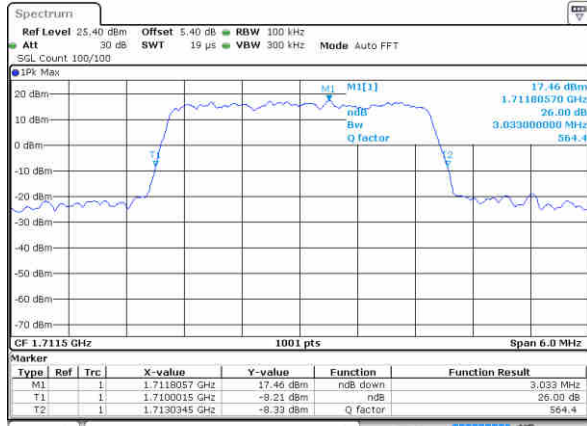
Highest Channel / 1.4MHz / 16QAM



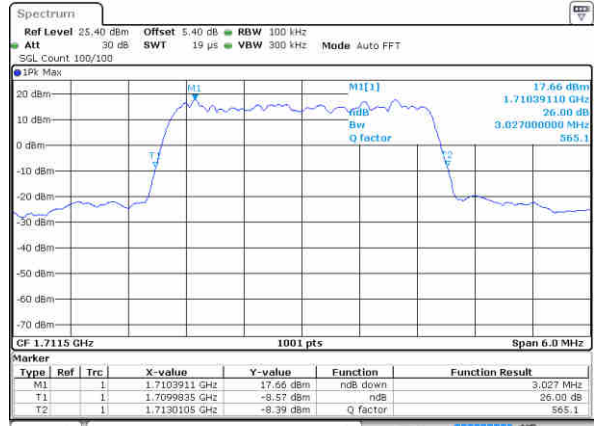


LTE Band 4

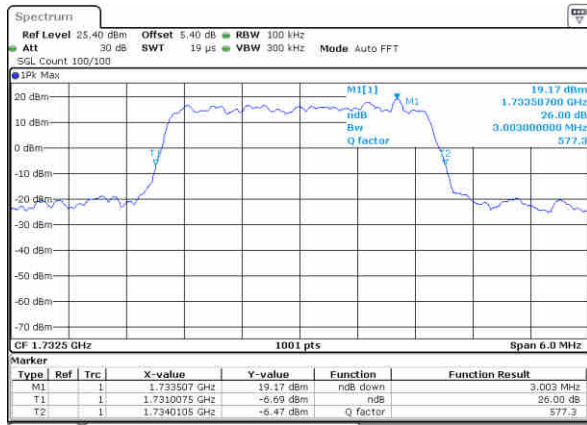
Lowest Channel / 3MHz / QPSK



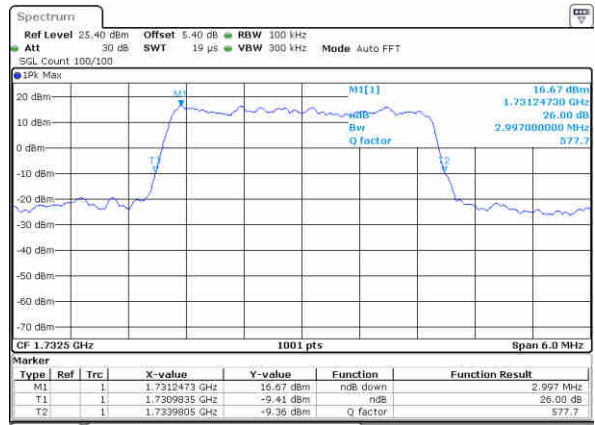
Lowest Channel / 3MHz / 16QAM



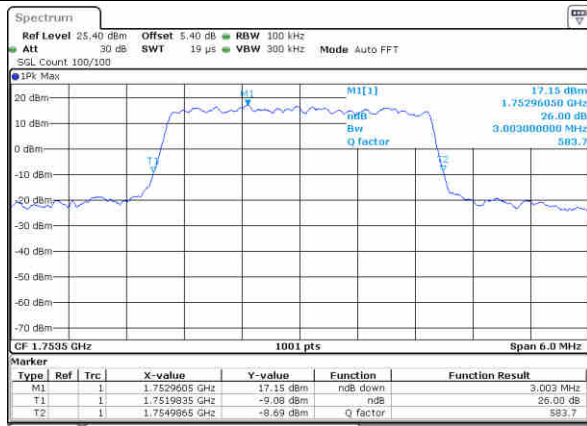
Middle Channel / 3MHz / QPSK



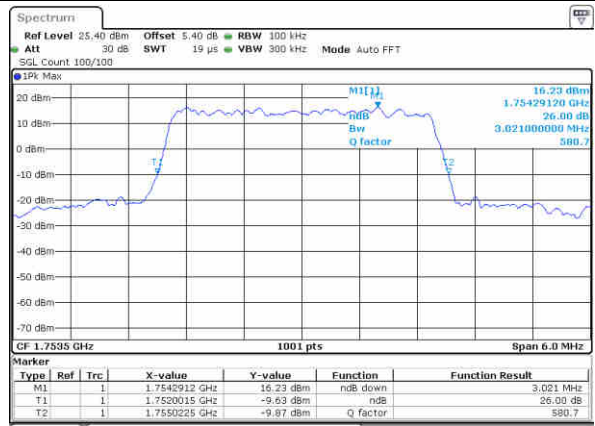
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



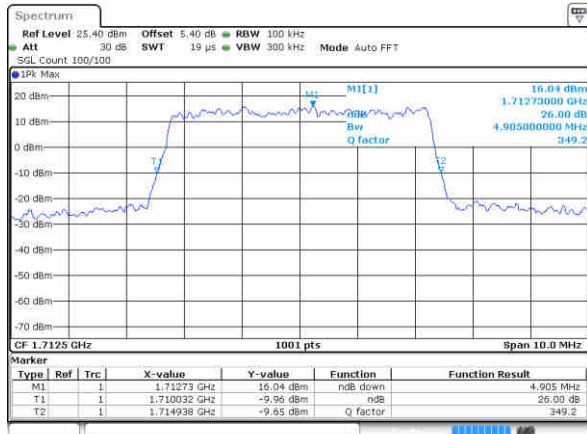
Highest Channel / 3MHz / 16QAM



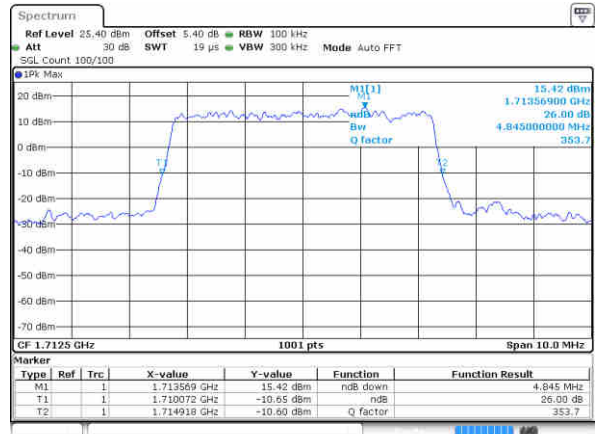


LTE Band 4

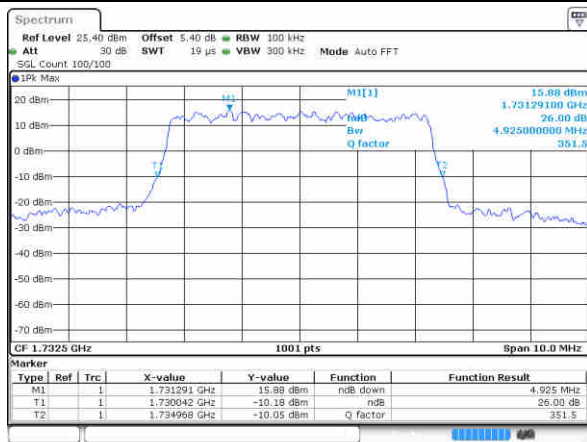
Lowest Channel / 5MHz / QPSK



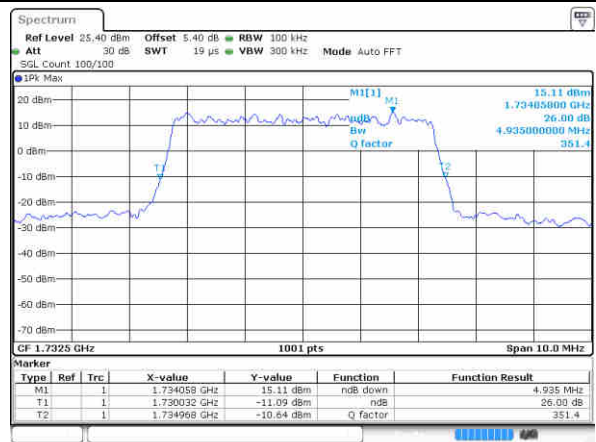
Lowest Channel / 5MHz / 16QAM



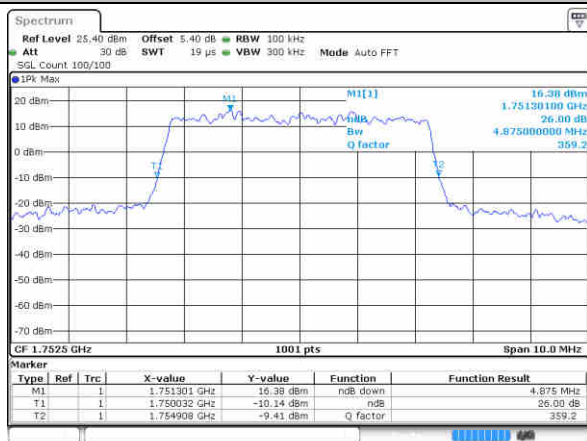
Middle Channel / 5MHz / QPSK



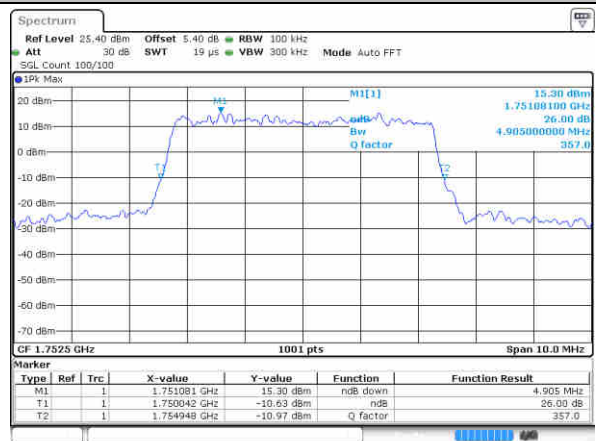
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



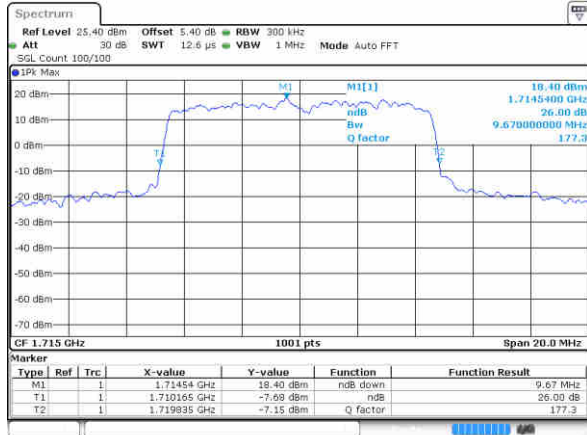
Highest Channel / 5MHz / 16QAM



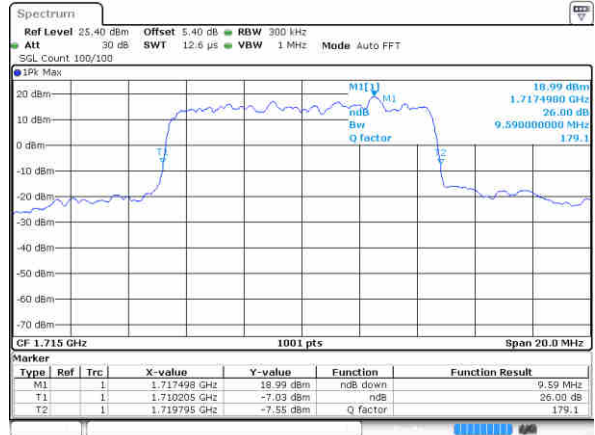


LTE Band 4

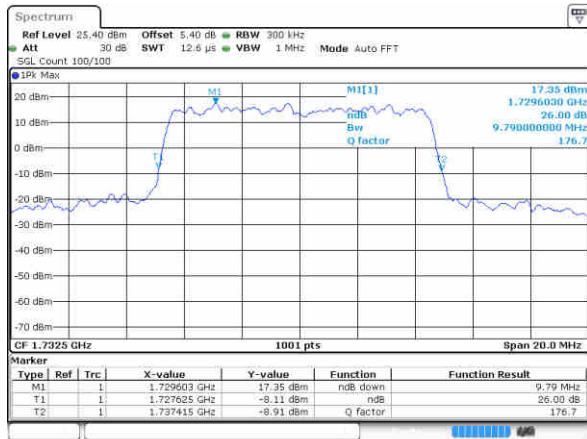
Lowest Channel / 10MHz / QPSK



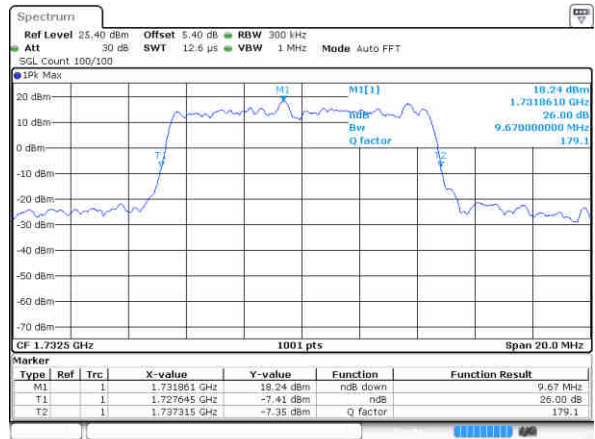
Lowest Channel / 10MHz / 16QAM



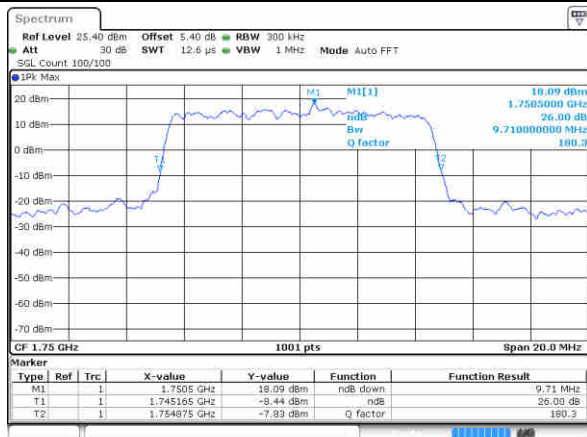
Middle Channel / 10MHz / QPSK



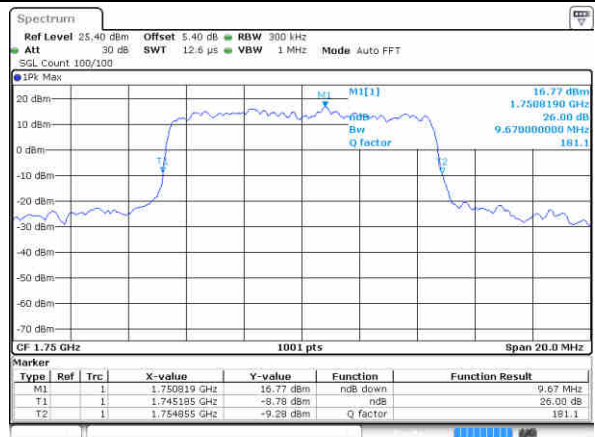
Middle Channel / 10MHz / 16QAM

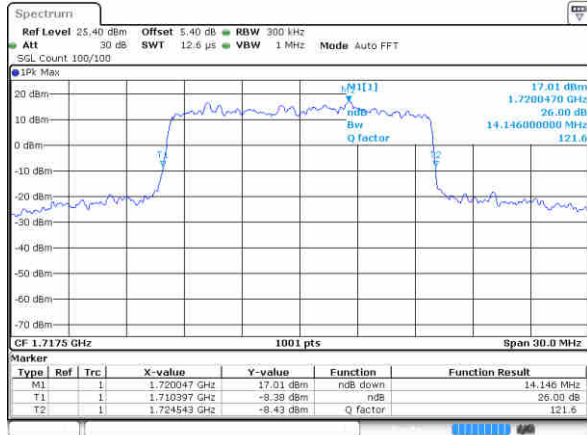


Highest Channel / 10MHz / QPSK

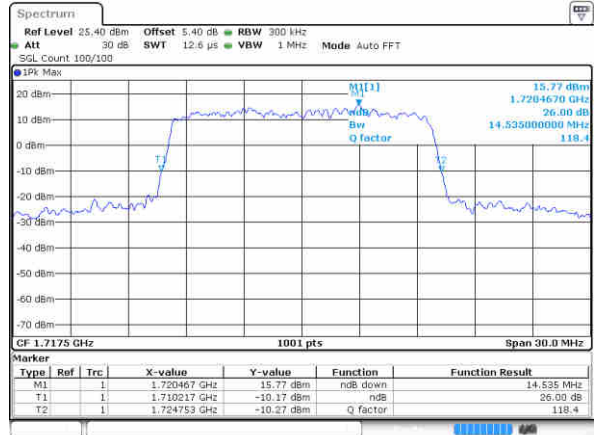


Highest Channel / 10MHz / 16QAM



LTE Band 4
Lowest Channel / 15MHz / QPSK


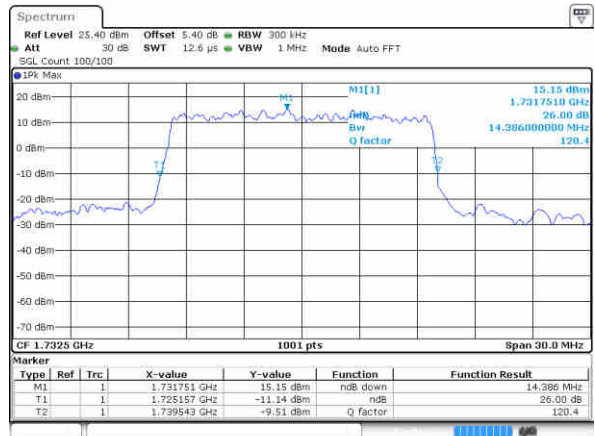
Date: 17 MAY 2020 02:33:10

Lowest Channel / 15MHz / 16QAM


Date: 17 MAY 2020 02:33:20

Middle Channel / 15MHz / QPSK


Date: 17 MAY 2020 02:40:10

Middle Channel / 15MHz / 16QAM


Date: 17 MAY 2020 02:40:20

Highest Channel / 15MHz / QPSK


Date: 17 MAY 2020 02:42:40

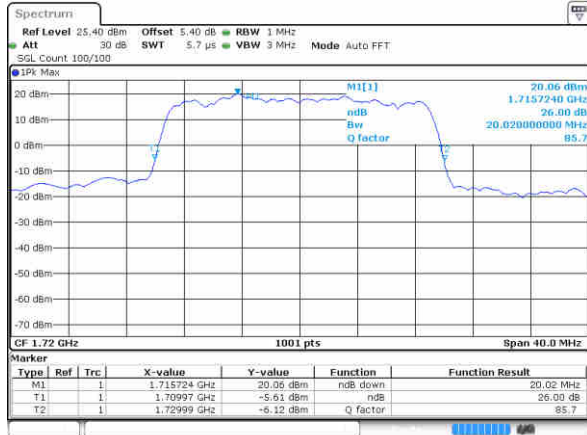
Highest Channel / 15MHz / 16QAM


Date: 17 MAY 2020 02:42:50

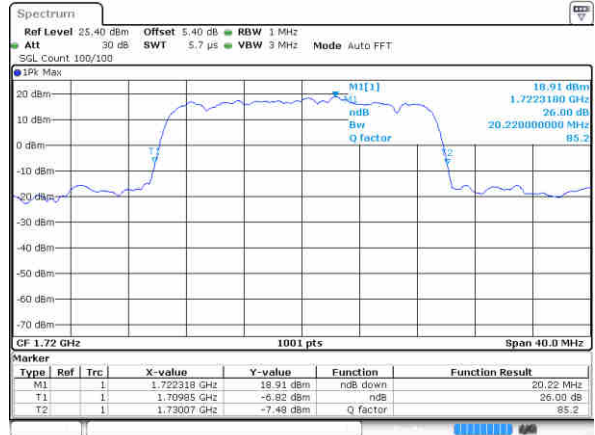


LTE Band 4

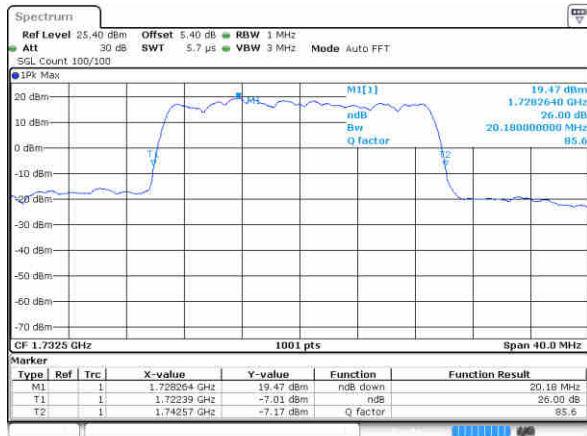
Lowest Channel / 20MHz / QPSK



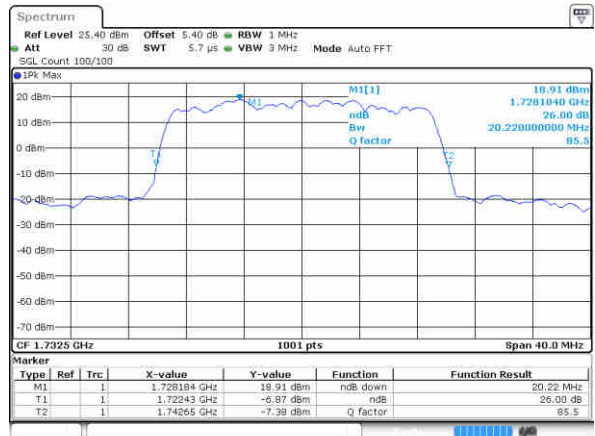
Lowest Channel / 20MHz / 16QAM



Middle Channel / 20MHz / QPSK



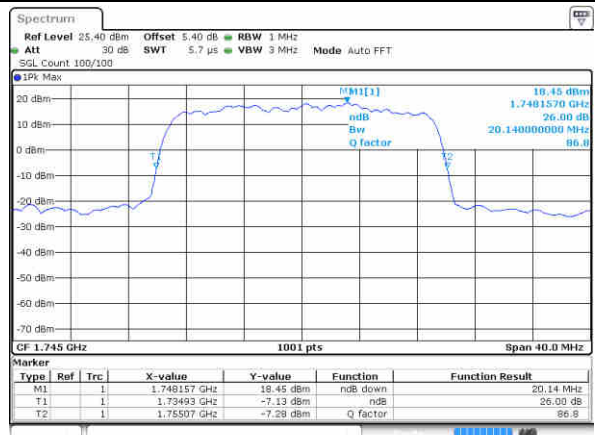
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM





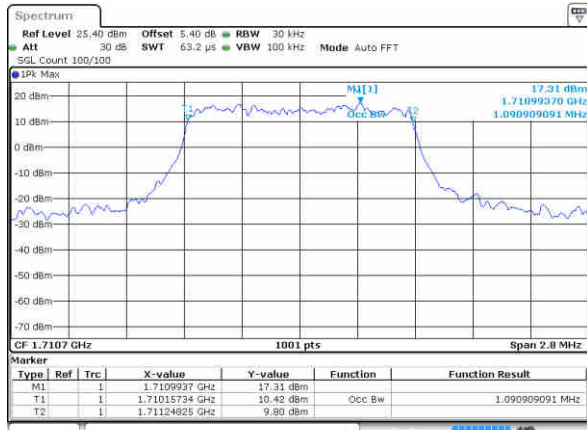
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.70	2.72	4.51	4.50	9.03	8.99	13.40	13.37	18.18	18.46
Middle CH	1.09	1.10	2.73	2.73	4.49	4.50	9.03	9.03	13.40	13.37	18.22	18.22
Highest CH	1.09	1.09	2.72	2.73	4.50	4.50	8.99	8.95	13.31	13.40	18.26	18.06



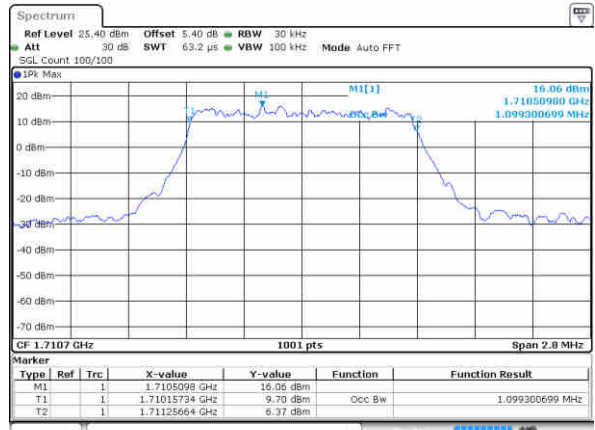
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



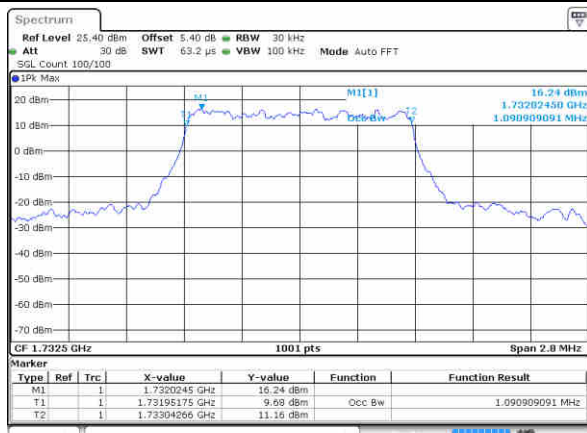
Date: 17 MAY 2020 00:58:23

Lowest Channel / 1.4MHz / 16QAM



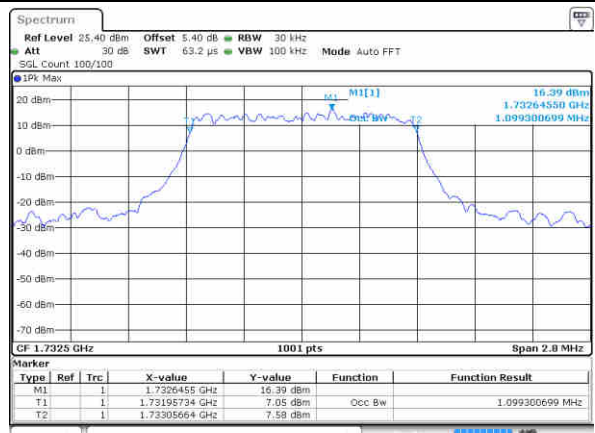
Date: 17 MAY 2020 00:58:33

Middle Channel / 1.4MHz / QPSK



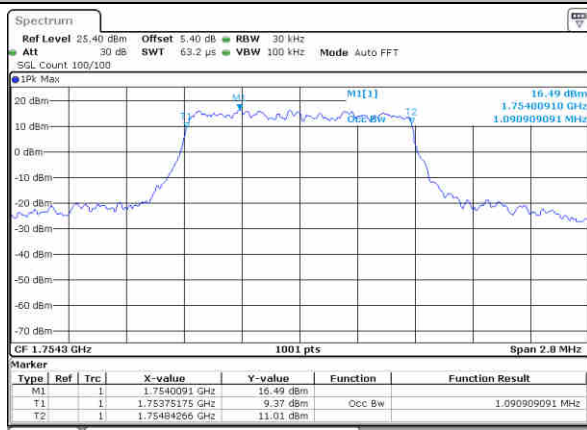
Date: 17 MAY 2020 01:05:23

Middle Channel / 1.4MHz / 16QAM



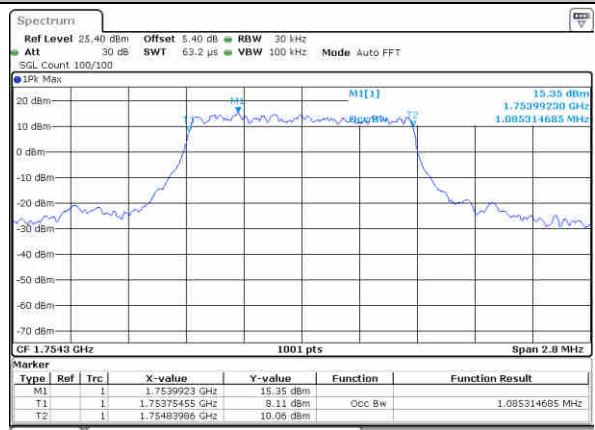
Date: 17 MAY 2020 01:05:33

Highest Channel / 1.4MHz / QPSK



Date: 17 MAY 2020 01:05:53

Highest Channel / 1.4MHz / 16QAM

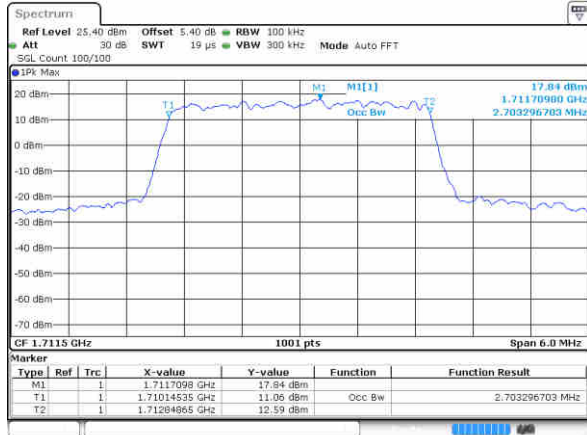


Date: 17 MAY 2020 01:08:03

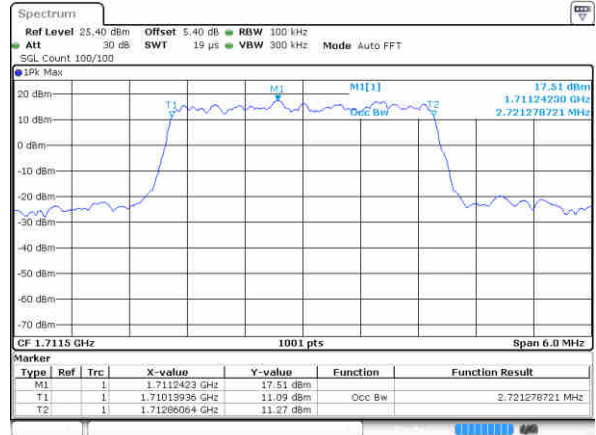


LTE Band 4

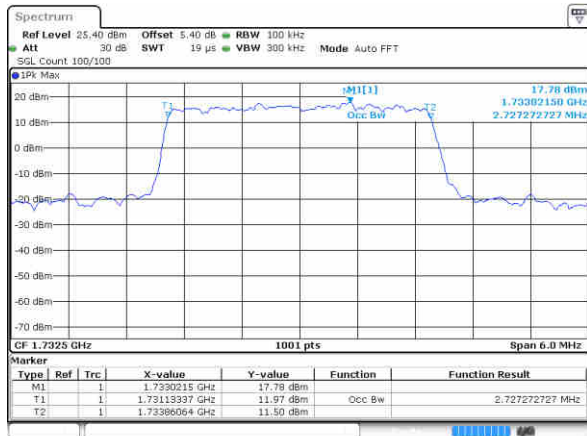
Lowest Channel / 3MHz / QPSK



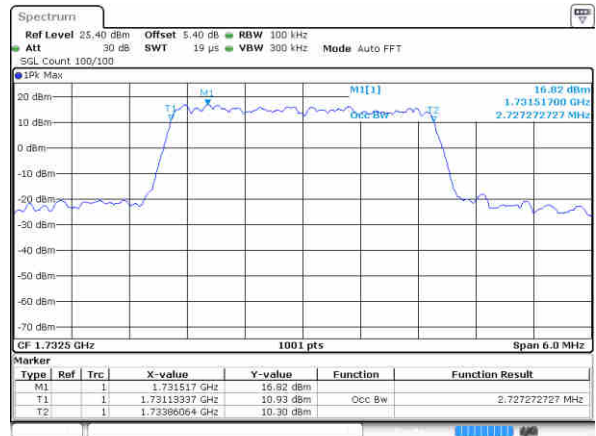
Lowest Channel / 3MHz / 16QAM



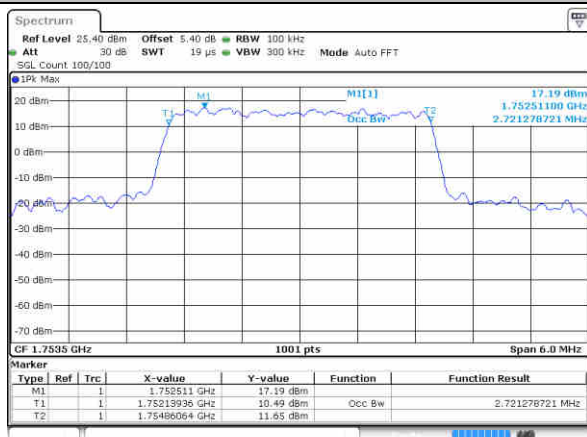
Middle Channel / 3MHz / QPSK



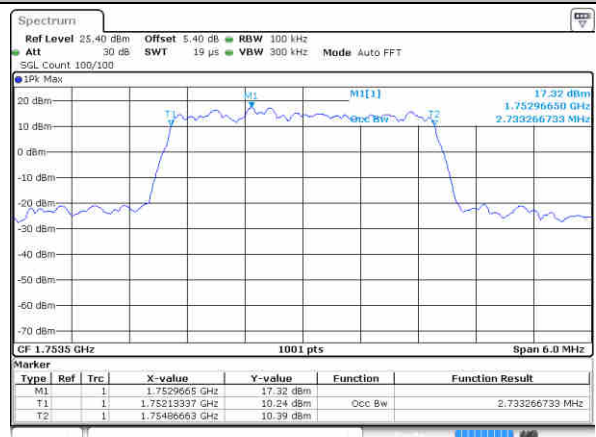
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



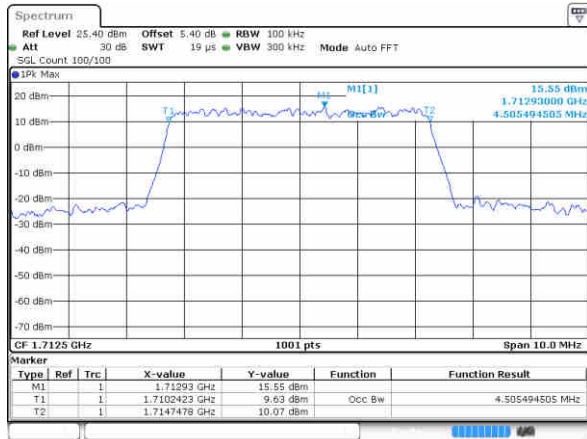
Highest Channel / 3MHz / 16QAM





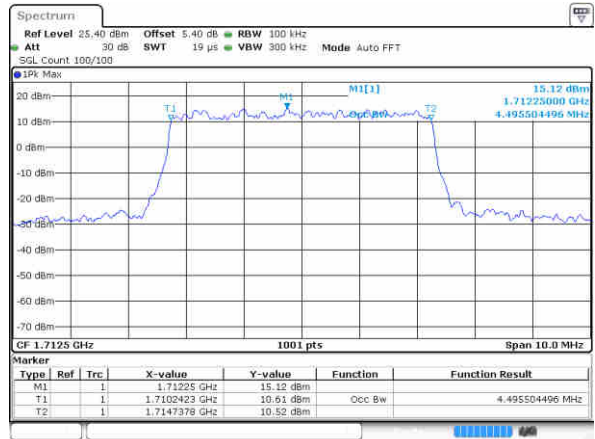
LTE Band 4

Lowest Channel / 5MHz / QPSK



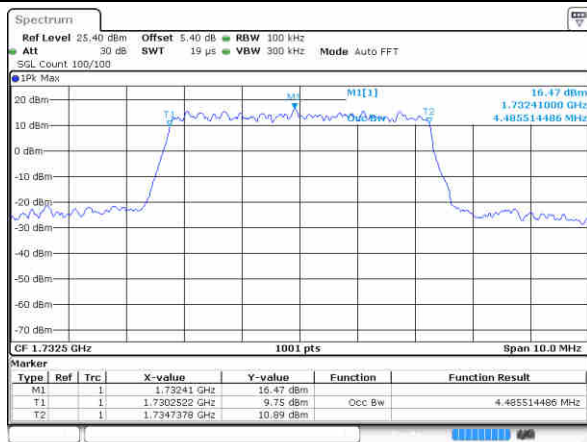
Date: 17 MAY 2020 01:31:22

Lowest Channel / 5MHz / 16QAM



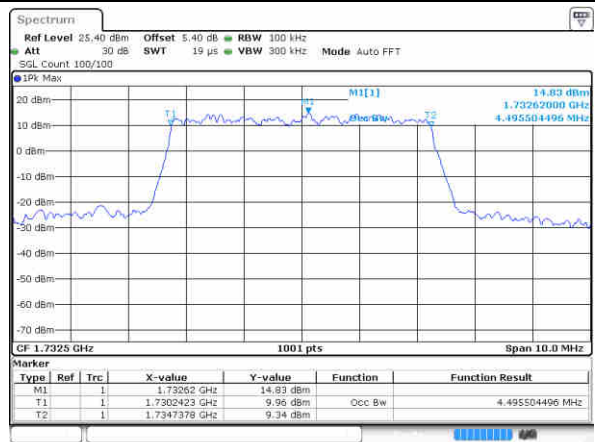
Date: 17 MAY 2020 01:31:32

Middle Channel / 5MHz / QPSK



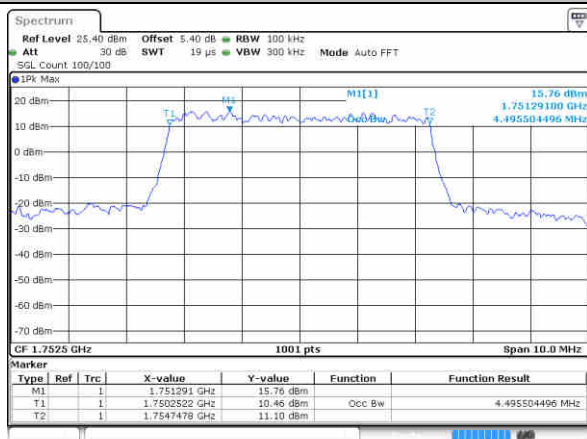
Date: 17 MAY 2020 01:38:22

Middle Channel / 5MHz / 16QAM



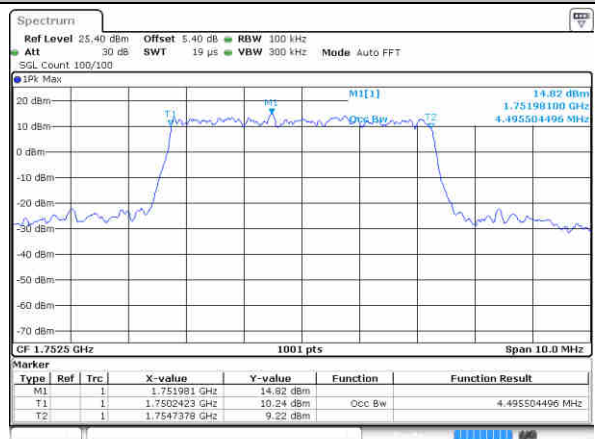
Date: 17 MAY 2020 01:38:32

Highest Channel / 5MHz / QPSK



Date: 17 MAY 2020 01:40:51

Highest Channel / 5MHz / 16QAM

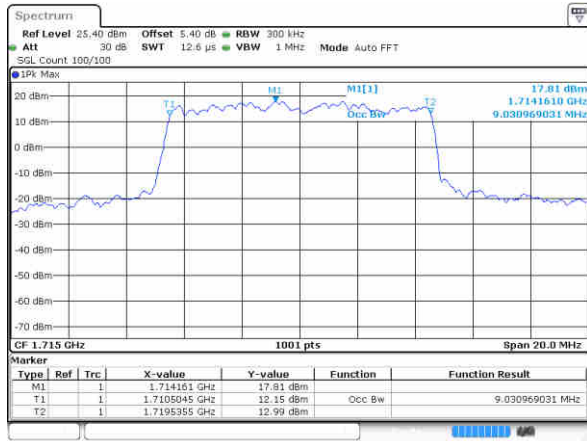


Date: 17 MAY 2020 01:41:01



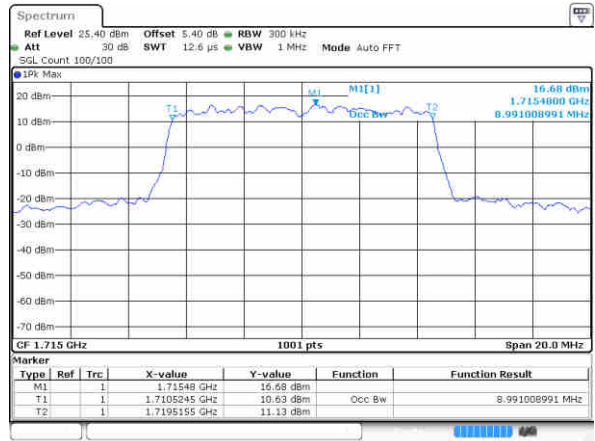
LTE Band 4

Lowest Channel / 10MHz / QPSK



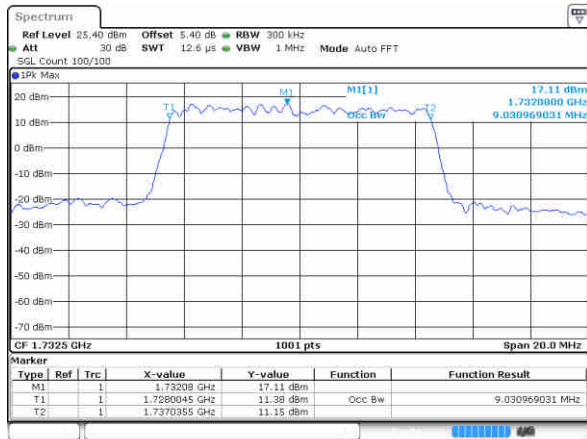
Date: 17 MAY 2020 01:47:51

Lowest Channel / 10MHz / 16QAM



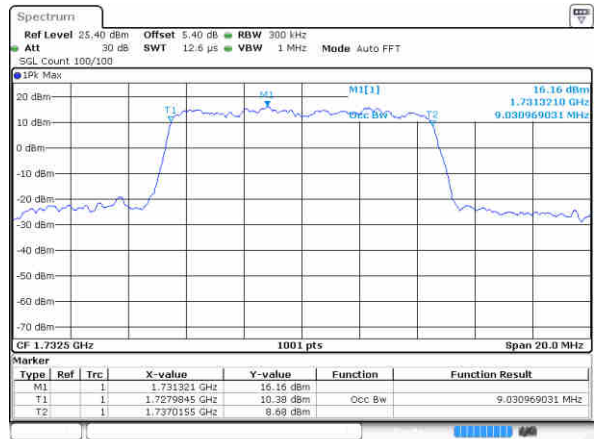
Date: 17 MAY 2020 01:48:01

Middle Channel / 10MHz / QPSK



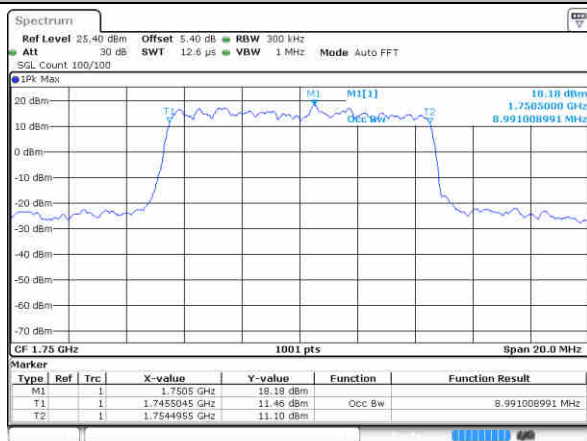
Date: 17 MAY 2020 02:23:20

Middle Channel / 10MHz / 16QAM



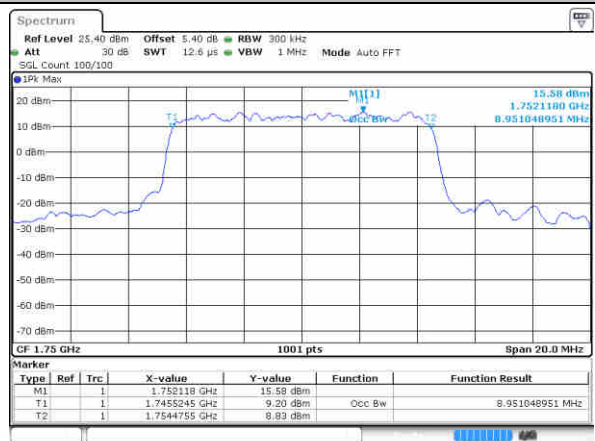
Date: 17 MAY 2020 02:23:30

Highest Channel / 10MHz / QPSK



Date: 17 MAY 2020 02:25:50

Highest Channel / 10MHz / 16QAM

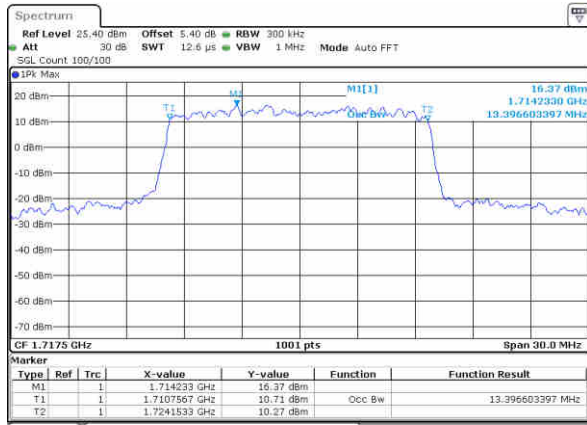


Date: 17 MAY 2020 02:26:00

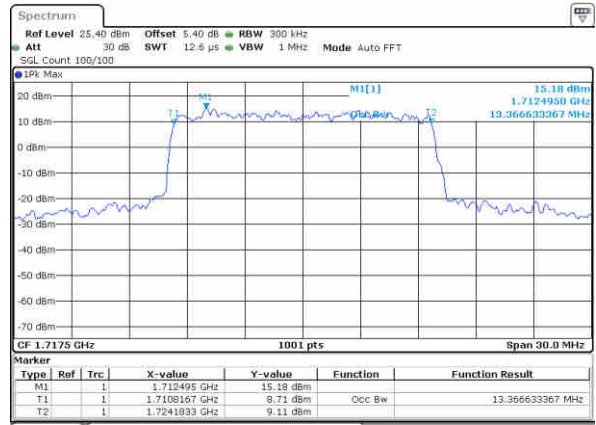


LTE Band 4

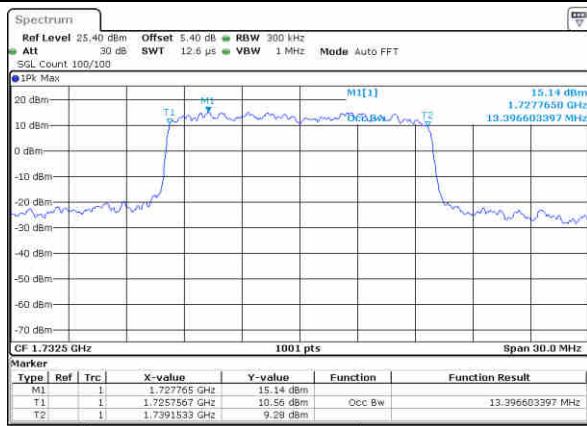
Lowest Channel / 15MHz / QPSK



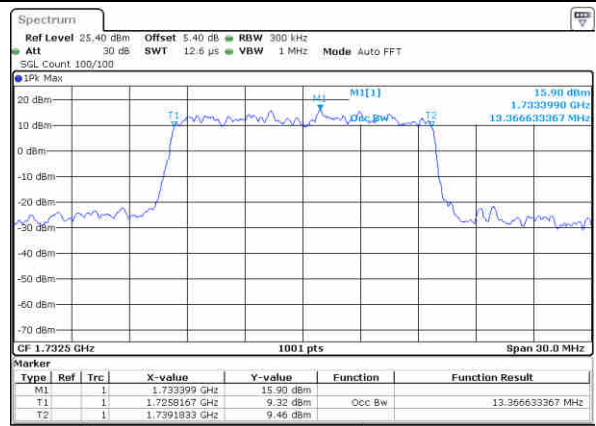
Lowest Channel / 15MHz / 16QAM



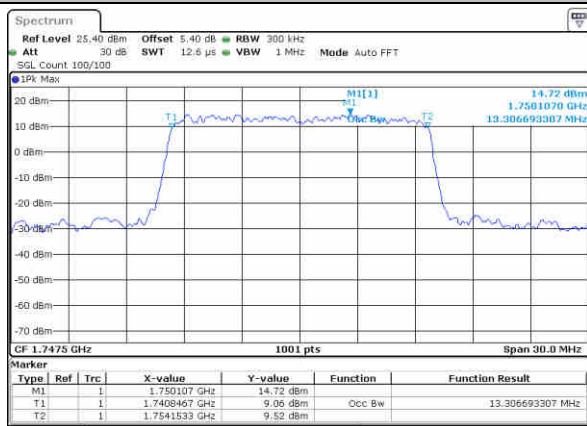
Middle Channel / 15MHz / QPSK



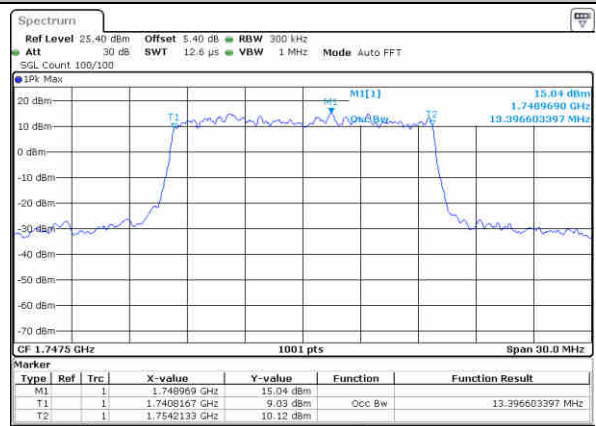
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



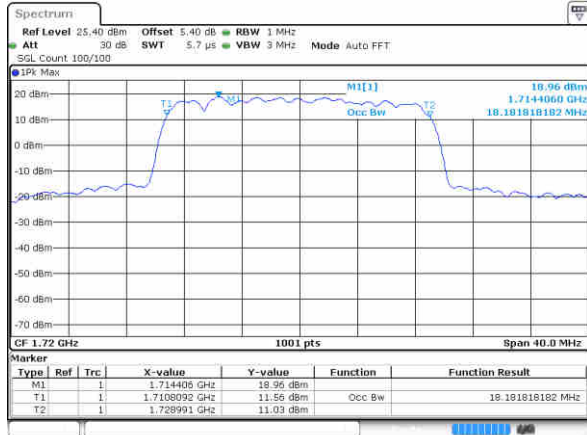
Highest Channel / 15MHz / 16QAM





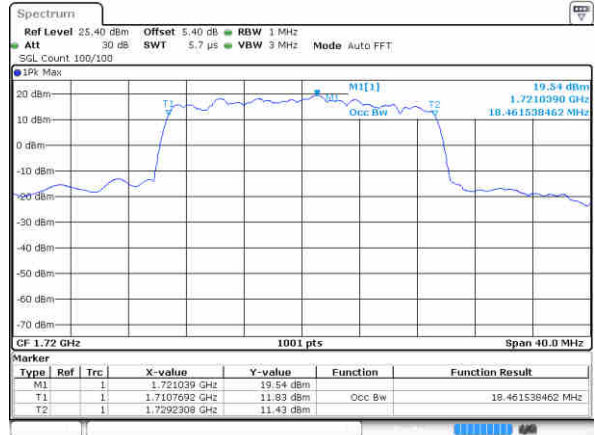
LTE Band 4

Lowest Channel / 20MHz / QPSK



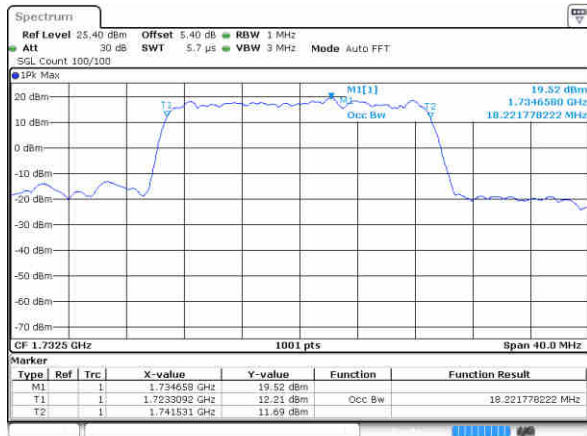
Date: 17 MAY 2020 02:49:19

Lowest Channel / 20MHz / 16QAM



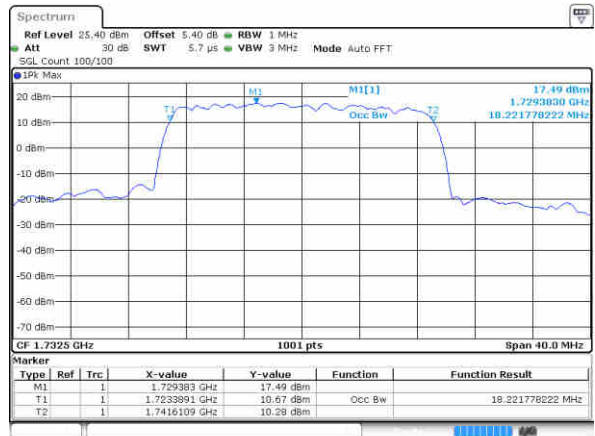
Date: 17 MAY 2020 02:49:29

Middle Channel / 20MHz / QPSK



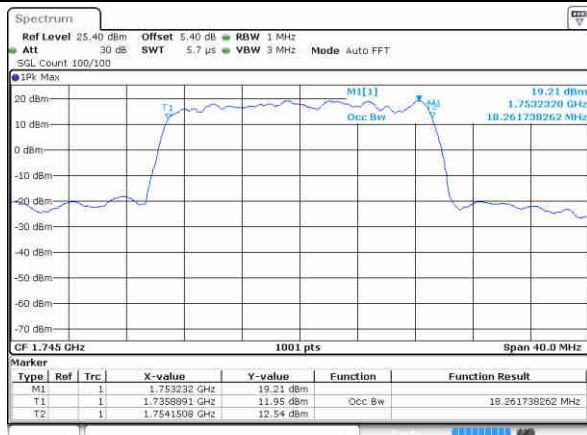
Date: 17 MAY 2020 02:56:19

Middle Channel / 20MHz / 16QAM



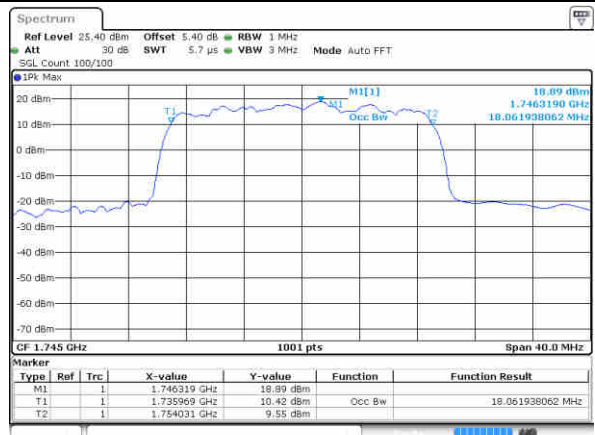
Date: 17 MAY 2020 02:56:29

Highest Channel / 20MHz / QPSK

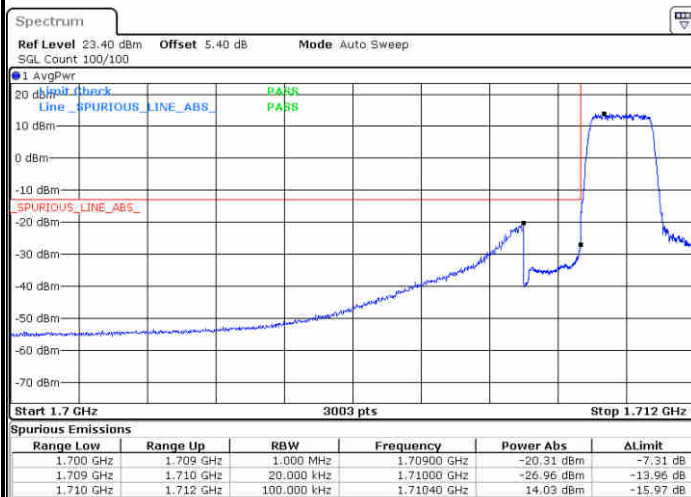


Date: 17 MAY 2020 02:56:49

Highest Channel / 20MHz / 16QAM



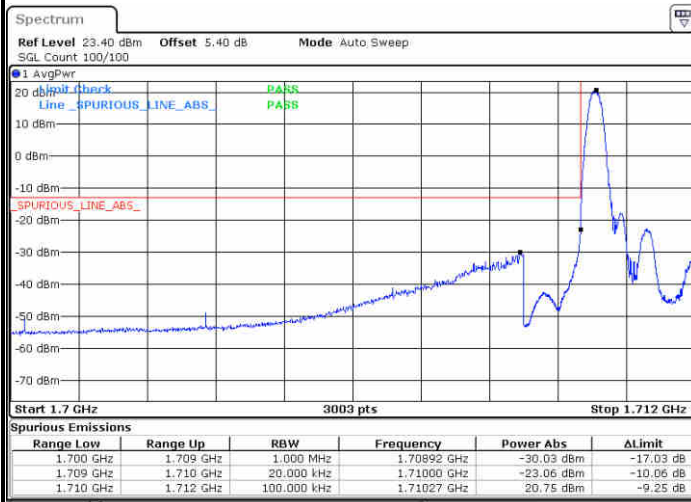
Date: 17 MAY 2020 02:56:59

**Conducted Band Edge****LTE Band 4 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 4 / 1.4MHz / 16QAM

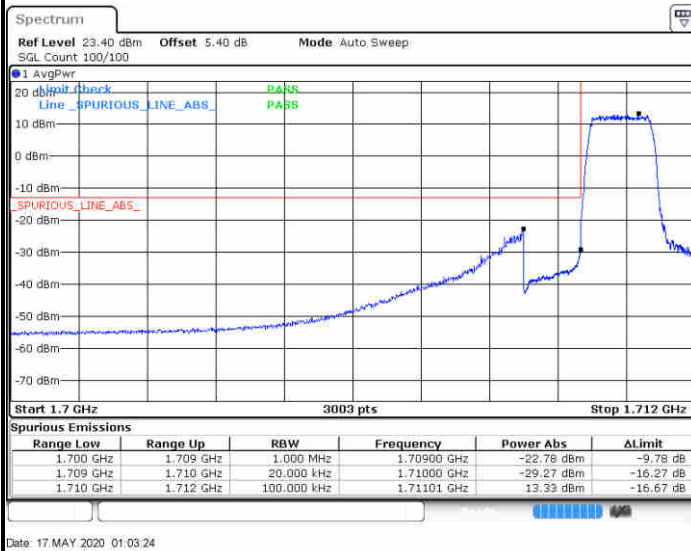
Lowest Band Edge / 1 RB



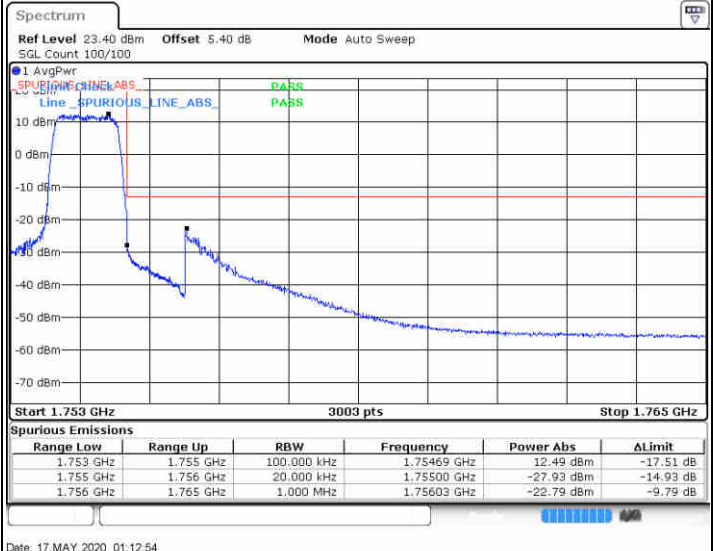
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



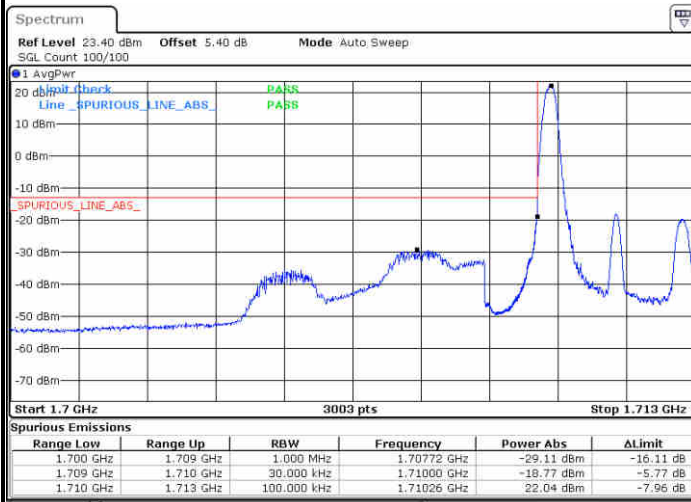
Highest Band Edge / Full RB



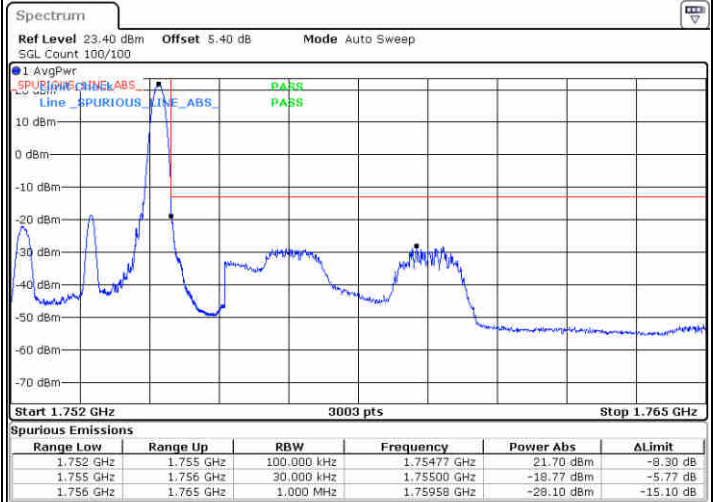


LTE Band 4 / 3MHz / QPSK

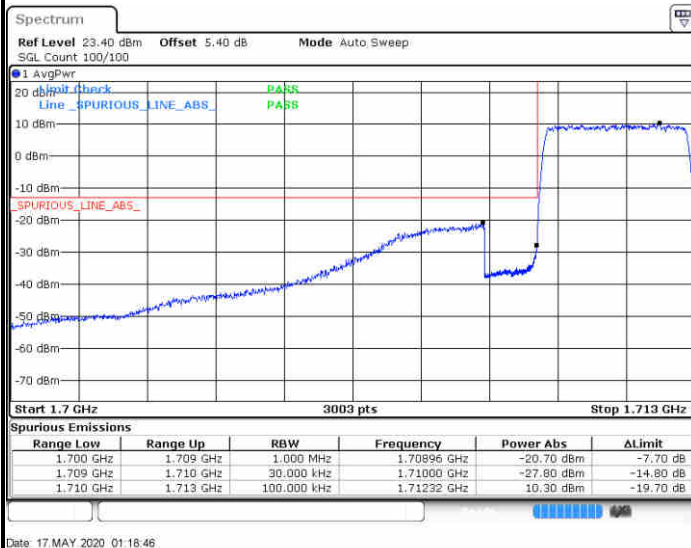
Lowest Band Edge / 1RB



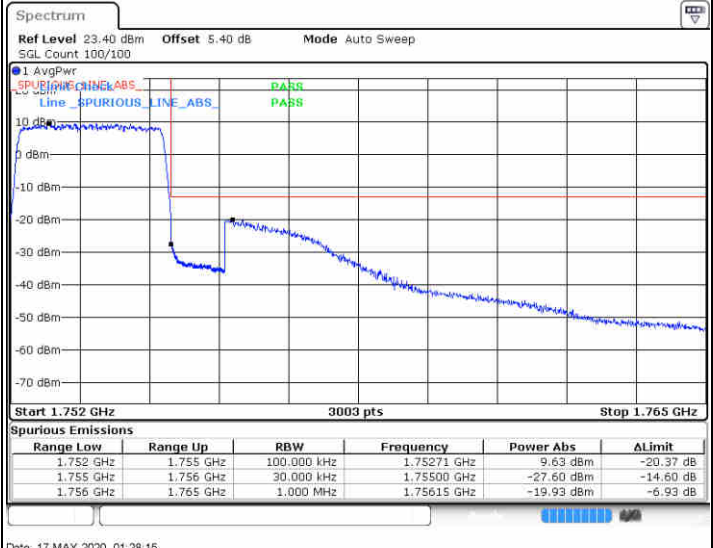
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



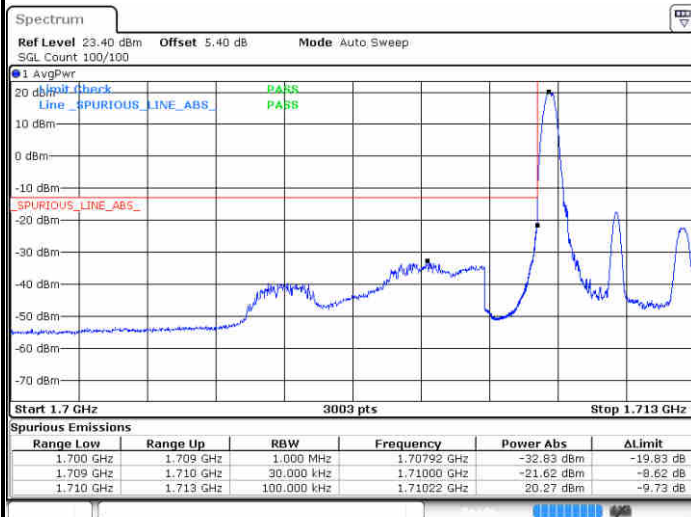
Highest Band Edge / Full RB



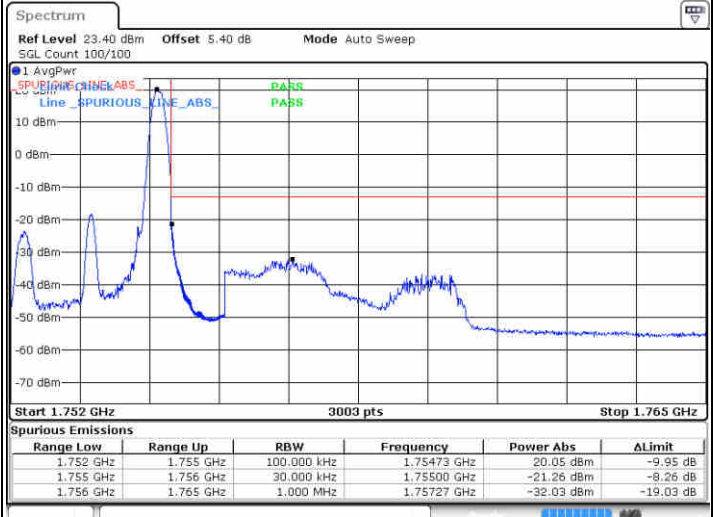


LTE Band 4 / 3MHz / 16QAM

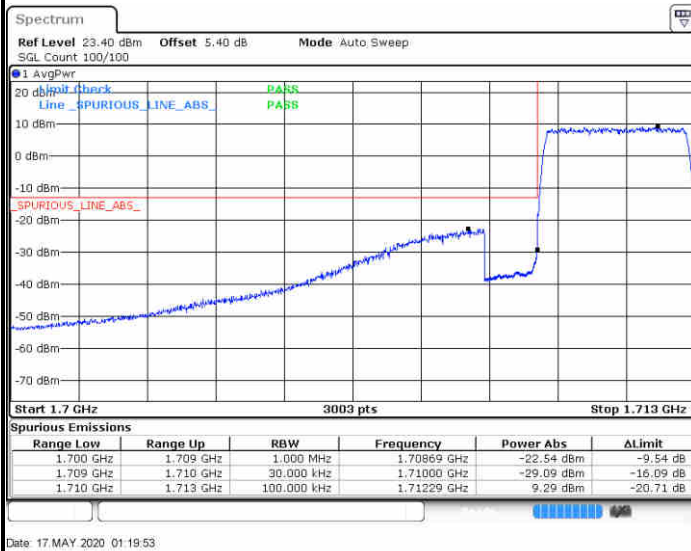
Lowest Band Edge / 1 RB



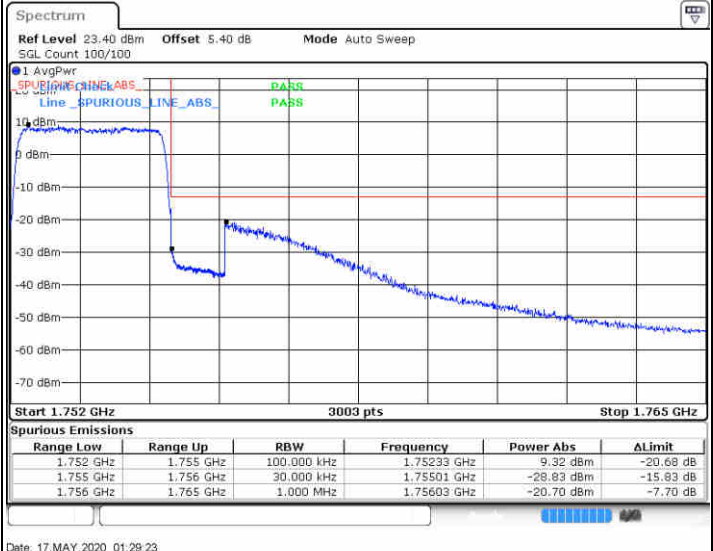
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



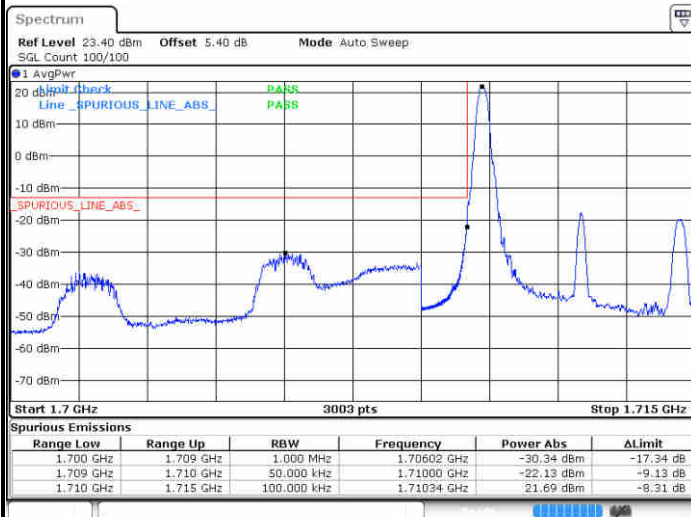
Highest Band Edge / Full RB



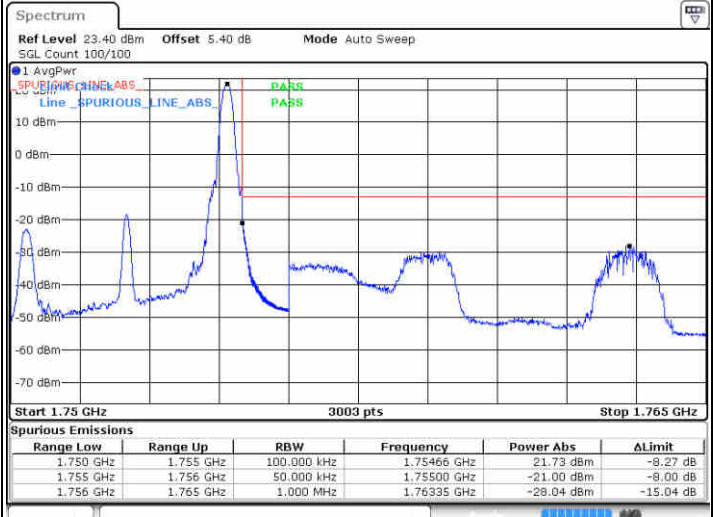


LTE Band 4 / 5MHz / QPSK

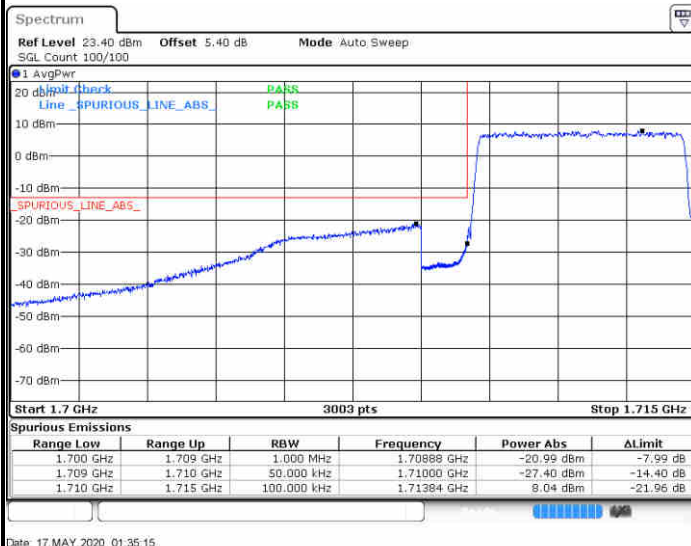
Lowest Band Edge / 1 RB



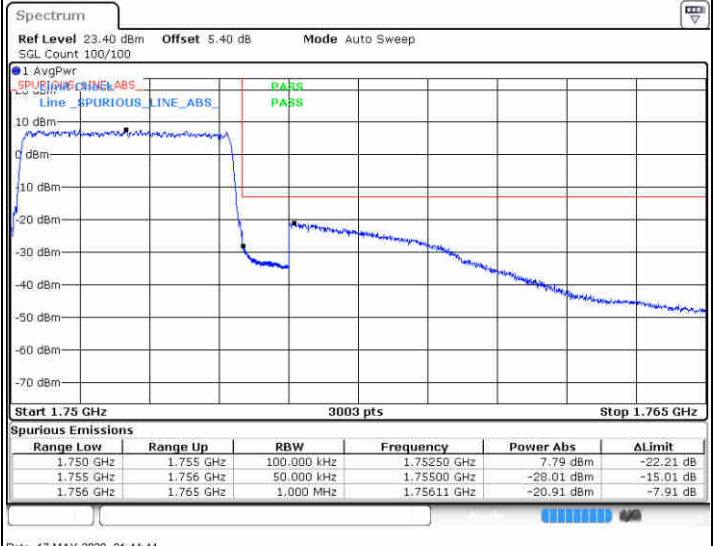
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



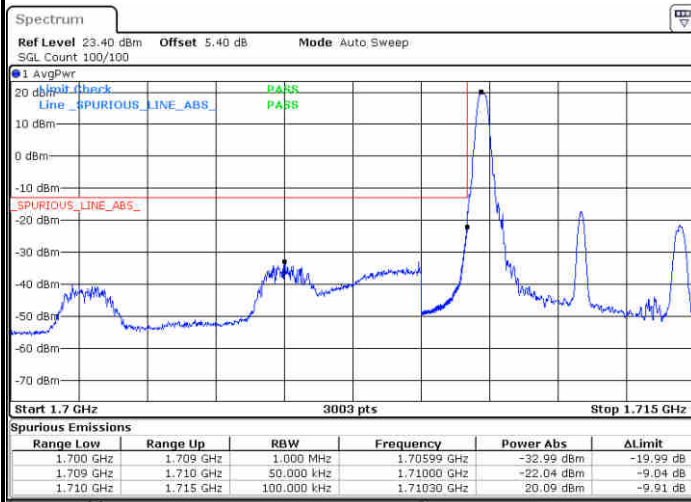
Highest Band Edge / Full RB



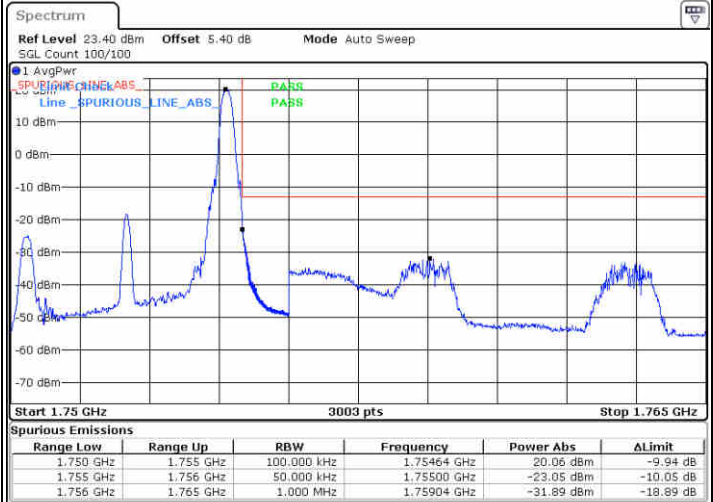


LTE Band 4 / 5MHz / 16QAM

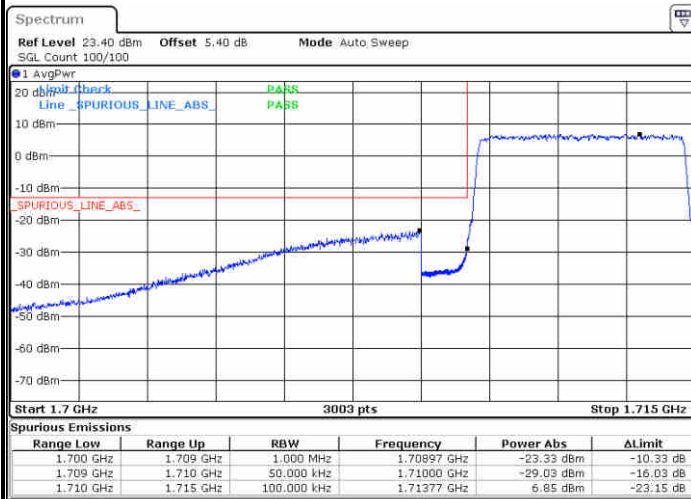
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

