



LTE Band 26 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



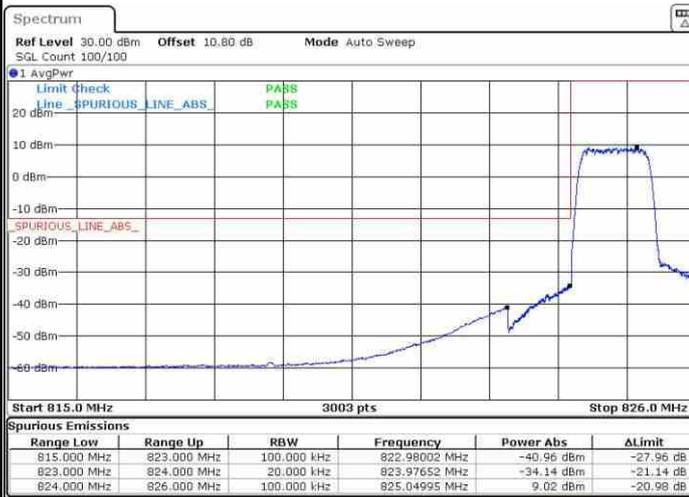
Date: 22 MAY 2019 04:07:19

Highest Band Edge / 1 RB



Date: 22 MAY 2019 04:11:22

Lowest Band Edge / Full RB



Date: 22 MAY 2019 04:05:38

Highest Band Edge / Full RB

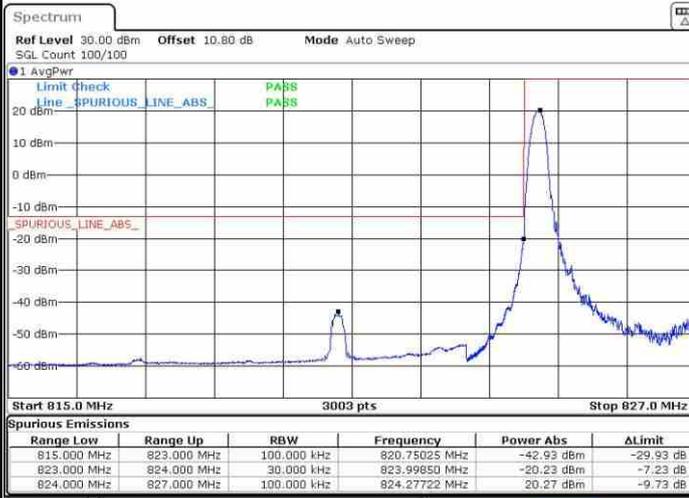


Date: 22 MAY 2019 04:13:04



LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 22 MAY 2019 07:20:26

Highest Band Edge / 1 RB



Date: 22 MAY 2019 07:21:27

Lowest Band Edge / Full RB



Date: 22 MAY 2019 07:17:23

Highest Band Edge / Full RB

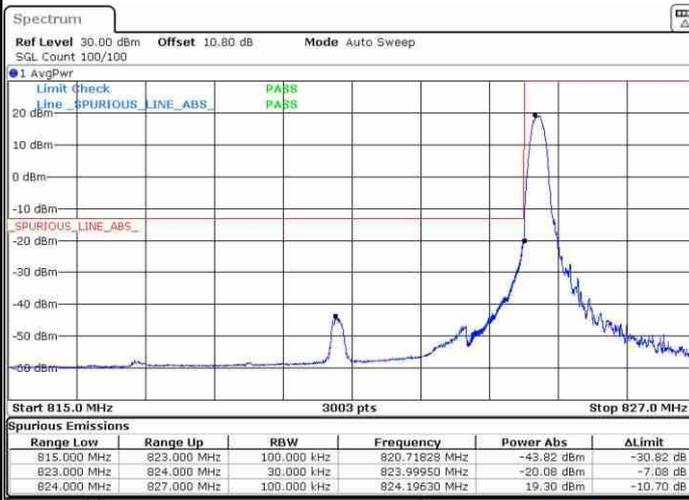


Date: 22 MAY 2019 07:24:31



LTE Band 26 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 22 MAY 2019 07:19:25

Highest Band Edge / 1 RB



Date: 22 MAY 2019 07:22:29

Lowest Band Edge / Full RB



Date: 22 MAY 2019 07:18:24

Highest Band Edge / Full RB

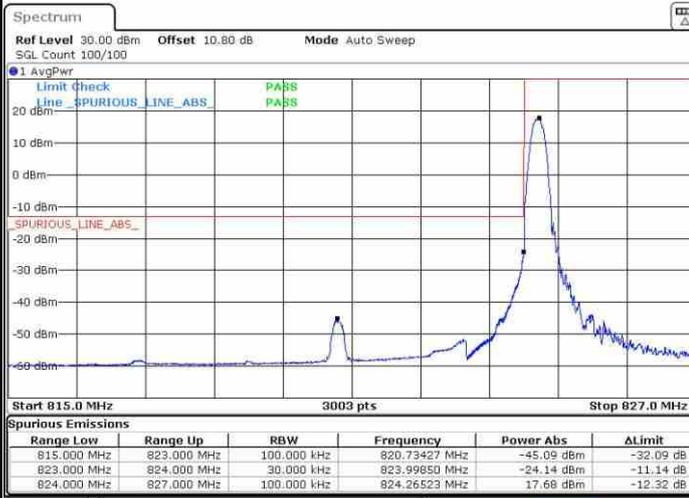


Date: 22 MAY 2019 07:23:30



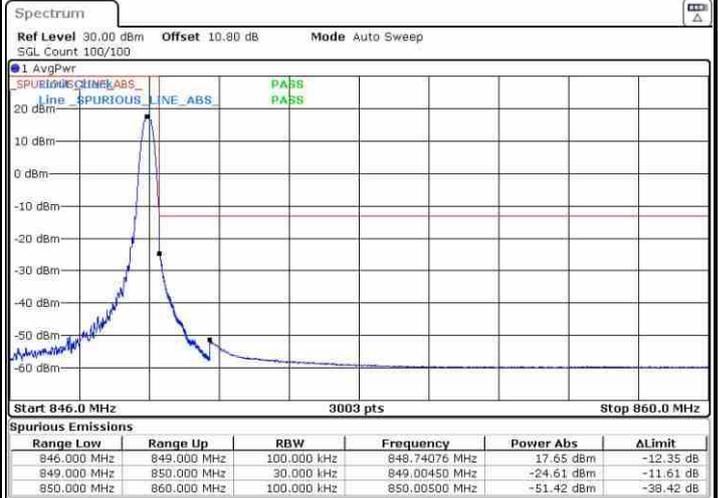
LTE Band 26 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 22.MAY.2019 07:26:33

Highest Band Edge / 1 RB



Date: 22.MAY.2019 07:27:34

Lowest Band Edge / Full RB



Date: 22.MAY.2019 07:25:32

Highest Band Edge / Full RB

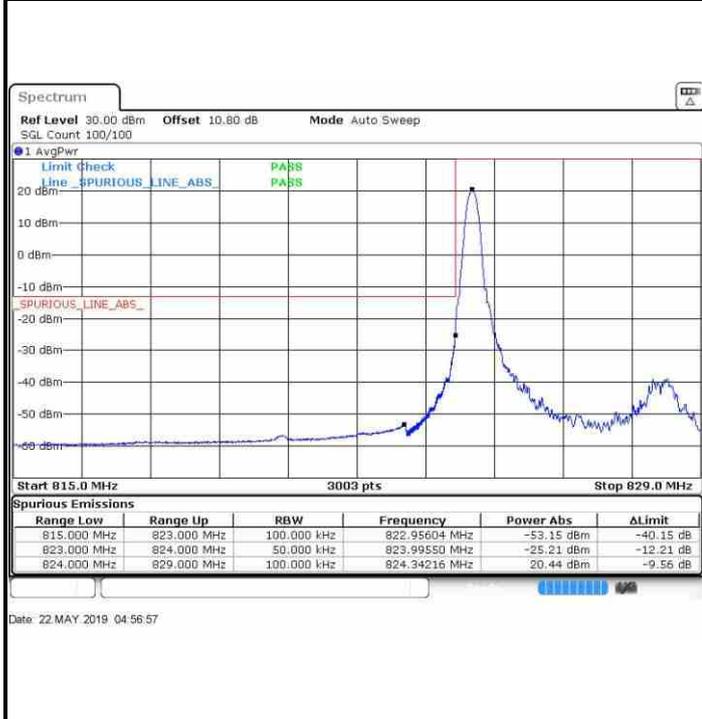


Date: 22.MAY.2019 07:28:35

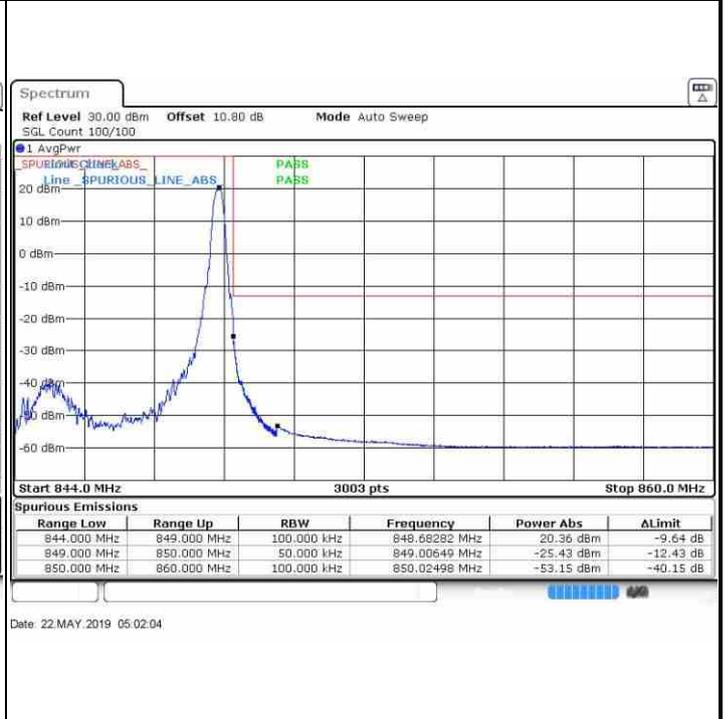


LTE Band 26 / 5MHz / QPSK

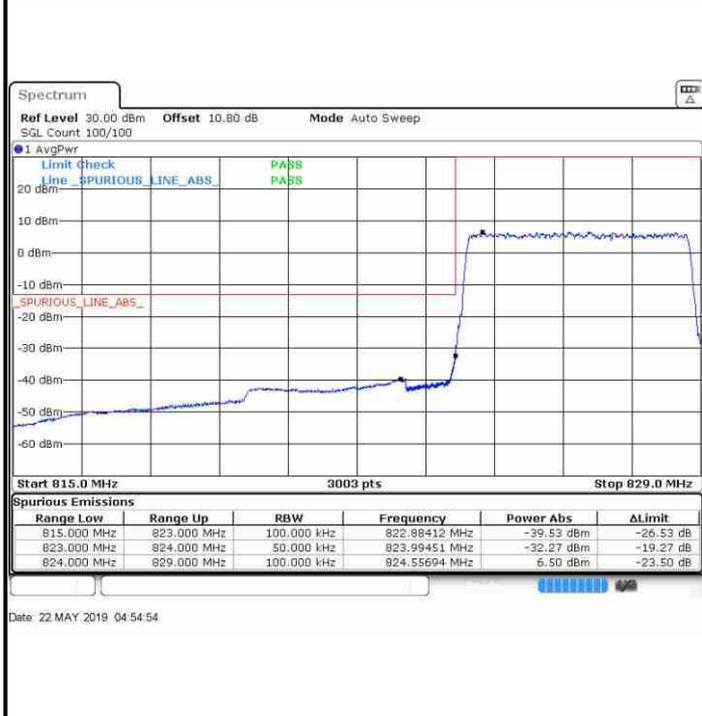
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



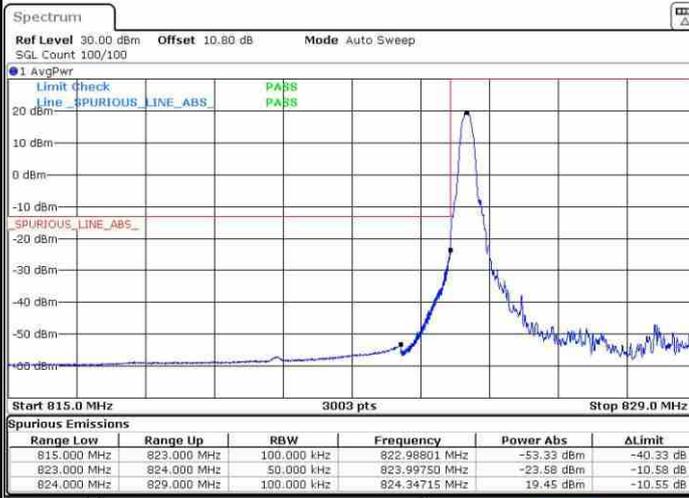
Highest Band Edge / Full RB





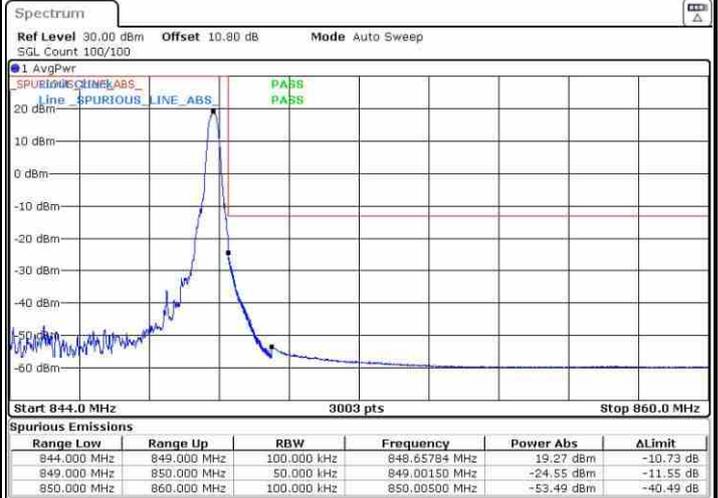
LTE Band 26 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 22 MAY 2019 04:56:16

Highest Band Edge / 1 RB



Date: 22 MAY 2019 05:02:46

Lowest Band Edge / Full RB



Date: 22 MAY 2019 04:55:35

Highest Band Edge / Full RB

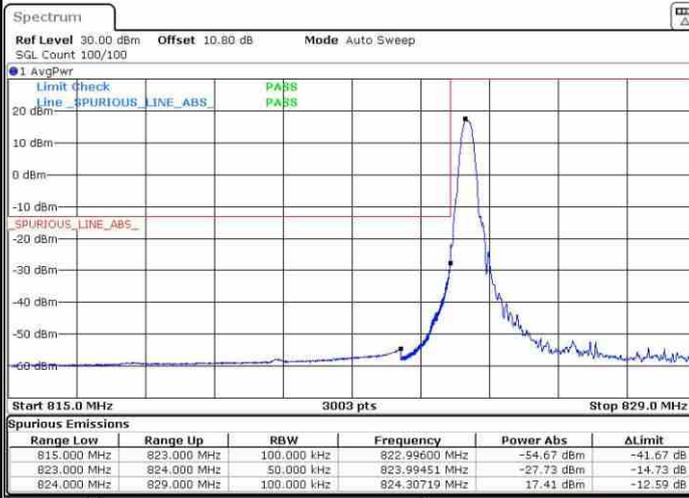


Date: 22 MAY 2019 05:03:28



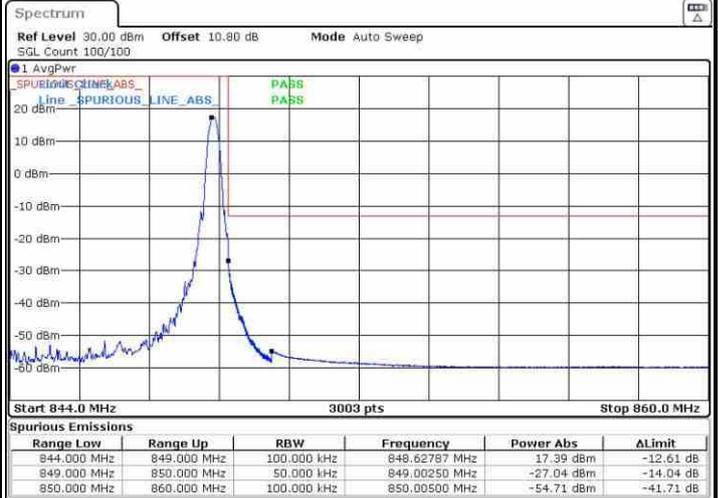
LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1RB



Date: 22.MAY.2019 04:23:13

Highest Band Edge / 1 RB



Date: 22.MAY.2019 04:26:07

Lowest Band Edge / Full RB



Date: 22.MAY.2019 04:22:32

Highest Band Edge / Full RB

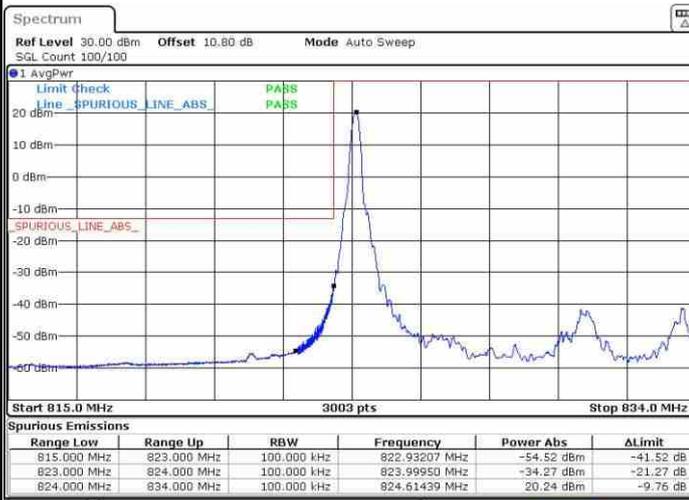


Date: 22.MAY.2019 04:26:49



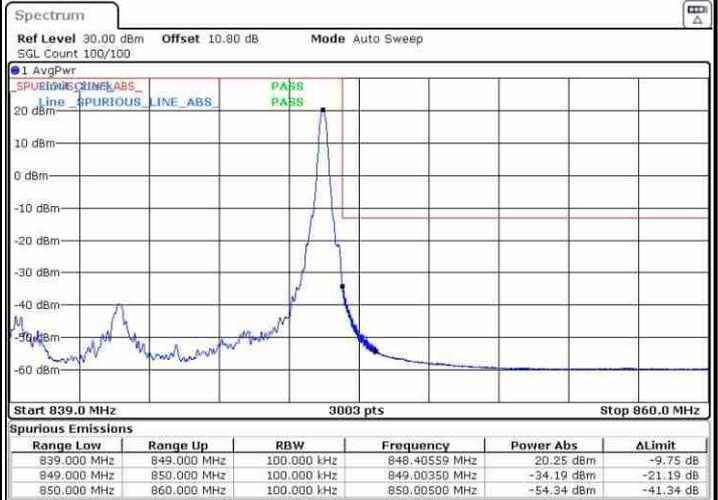
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB



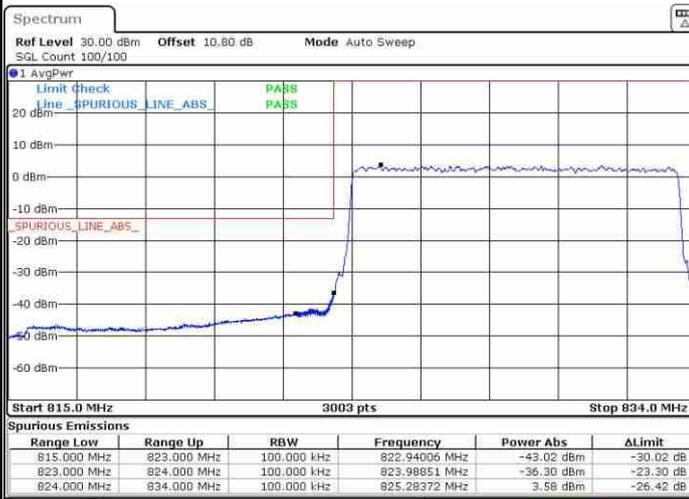
Date: 22 MAY 2019 05:18:00

Highest Band Edge / 1 RB



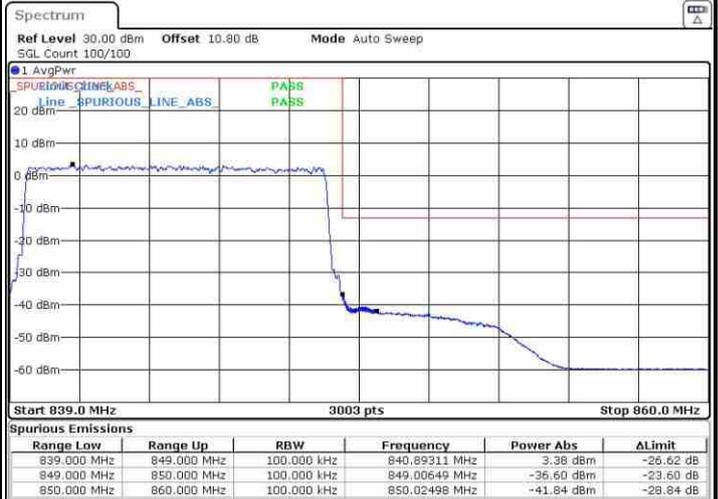
Date: 22 MAY 2019 05:23:05

Lowest Band Edge / Full RB



Date: 22 MAY 2019 05:15:57

Highest Band Edge / Full RB

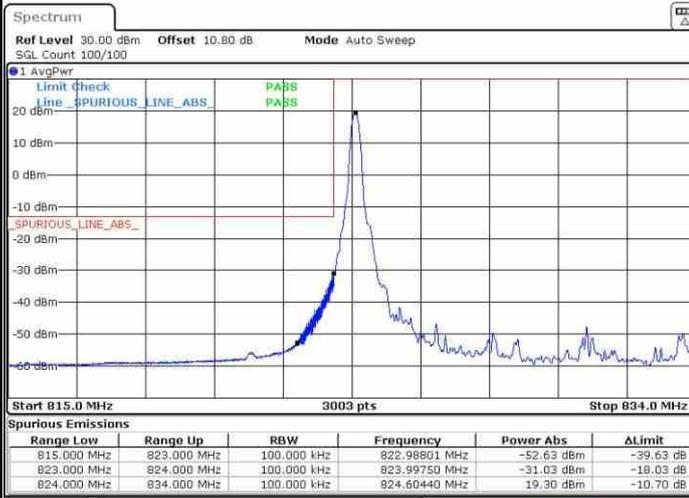


Date: 22 MAY 2019 05:25:09



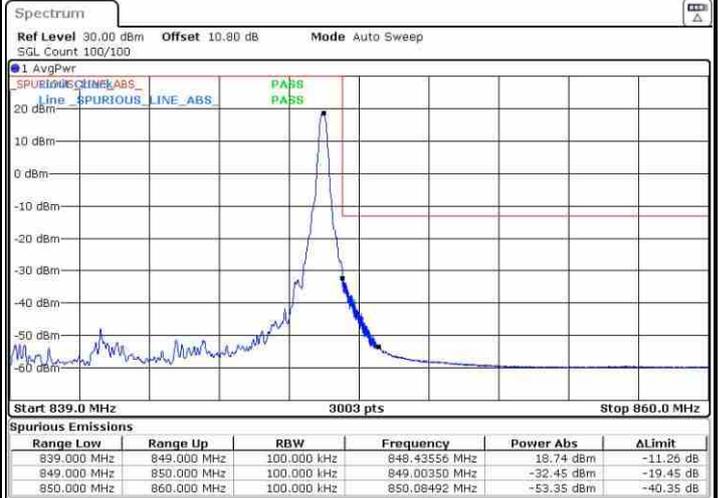
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



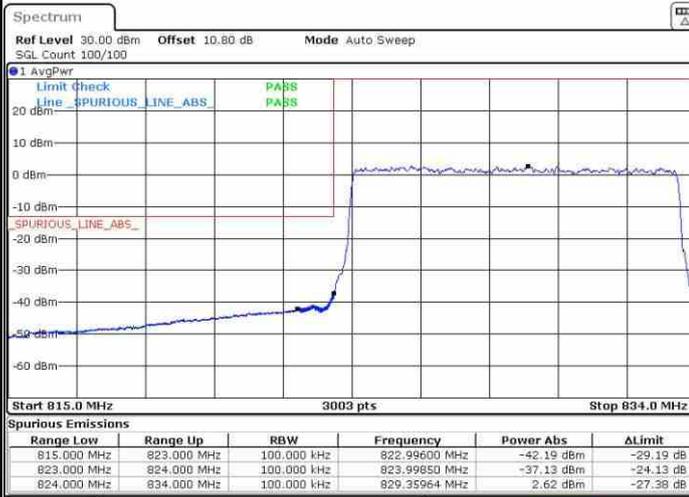
Date: 22 MAY 2019 05:17:19

Highest Band Edge / 1 RB



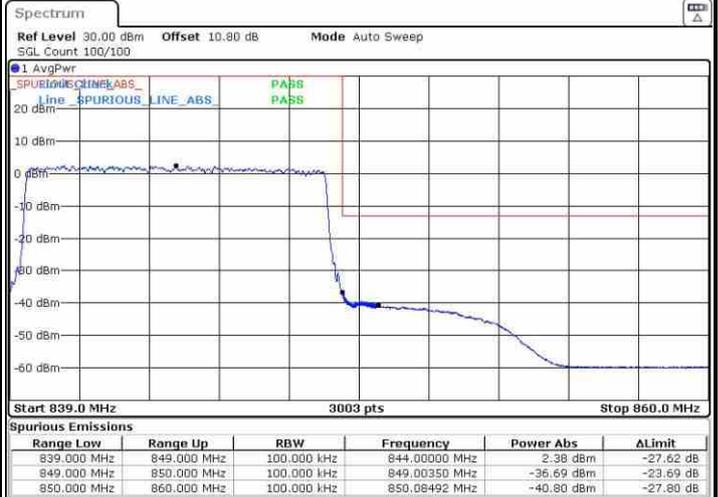
Date: 22 MAY 2019 05:23:46

Lowest Band Edge / Full RB



Date: 22 MAY 2019 05:16:38

Highest Band Edge / Full RB

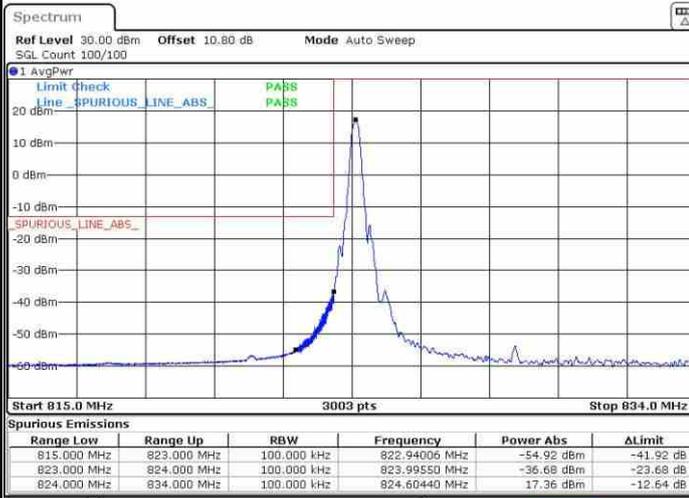


Date: 22 MAY 2019 05:24:27



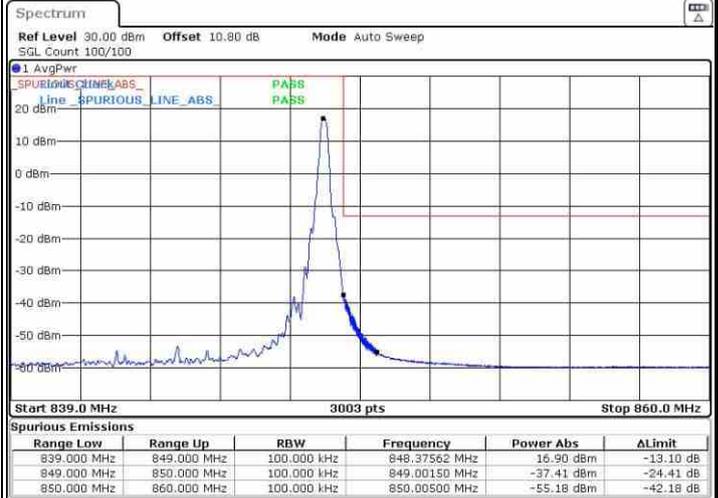
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



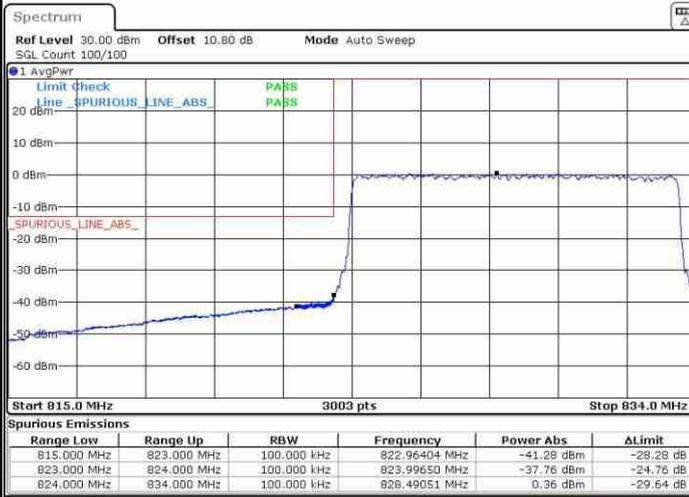
Date: 22 MAY 2019 04:29:17

Highest Band Edge / 1 RB



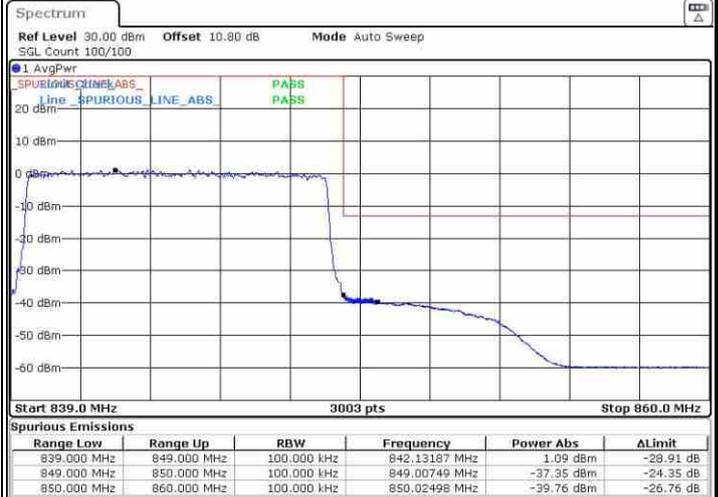
Date: 22 MAY 2019 04:32:10

Lowest Band Edge / Full RB



Date: 22 MAY 2019 04:28:36

Highest Band Edge / Full RB

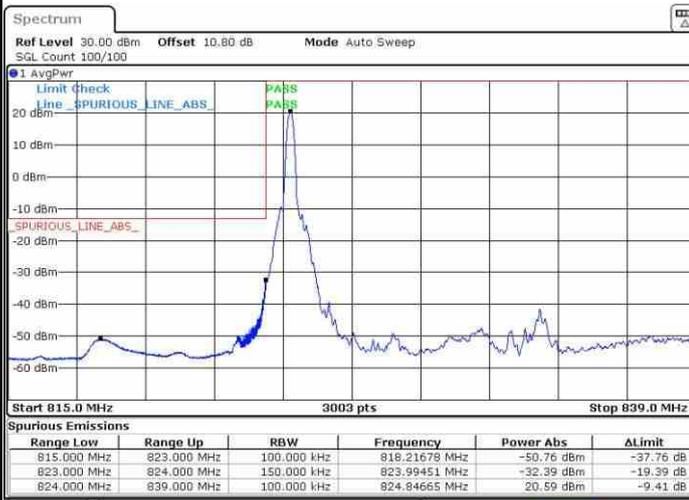


Date: 22 MAY 2019 04:32:51



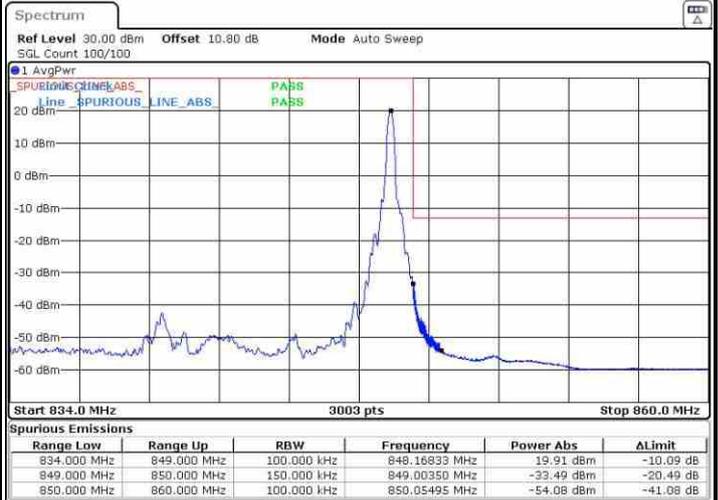
LTE Band 26 / 15MHz / QPSK

Lowest Band Edge / 1 RB



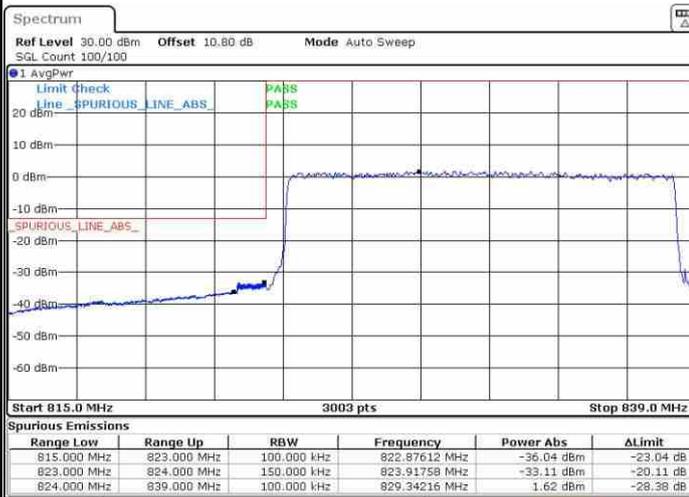
Date: 22 MAY 2019 05:30:01

Highest Band Edge / 1 RB



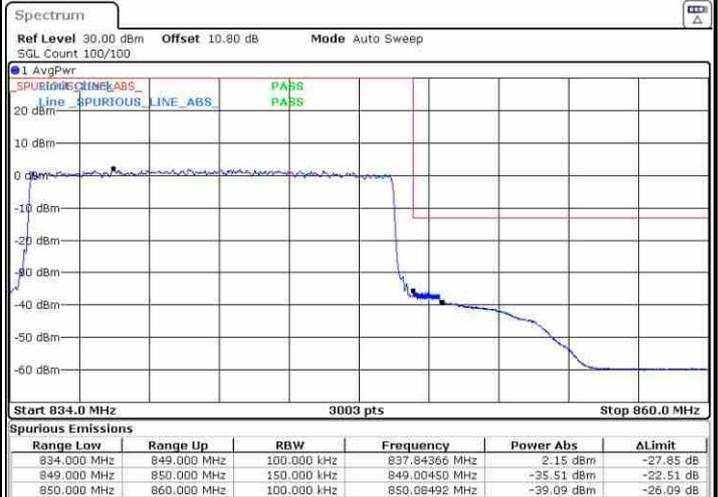
Date: 22 MAY 2019 05:35:05

Lowest Band Edge / Full RB



Date: 22 MAY 2019 05:28:00

Highest Band Edge / Full RB

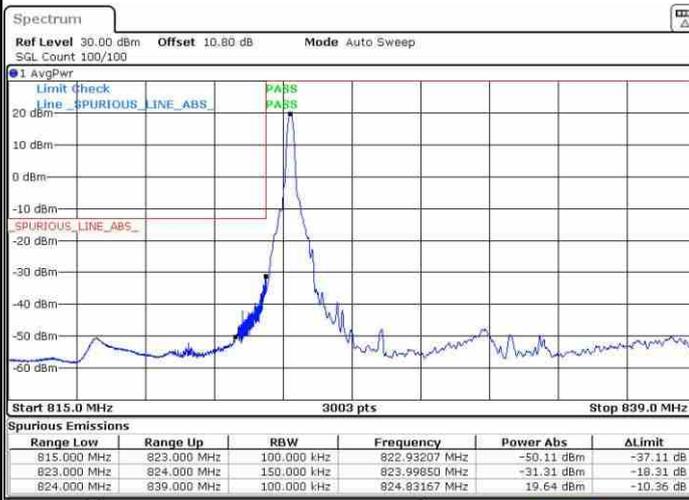


Date: 22 MAY 2019 05:37:08



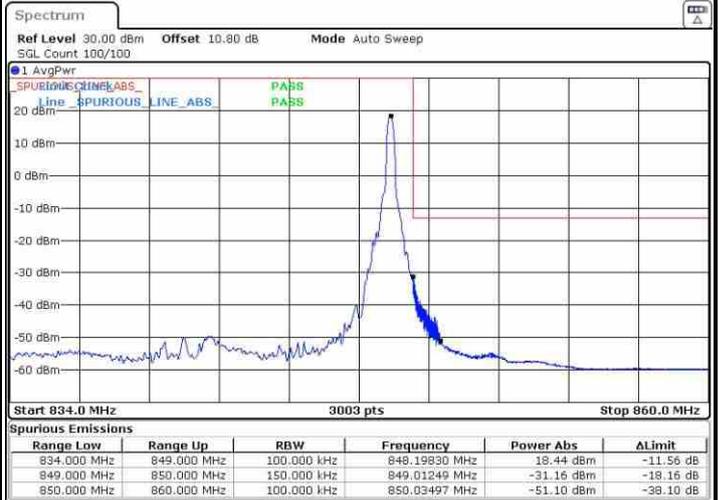
LTE Band 26 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



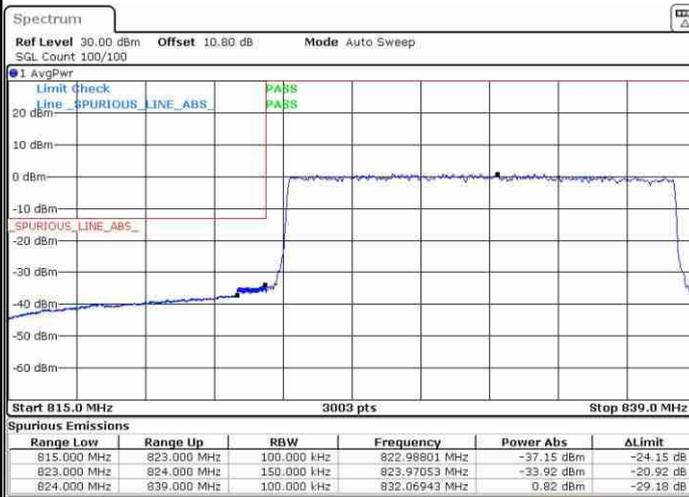
Date: 22 MAY 2019 05:29:21

Highest Band Edge / 1 RB



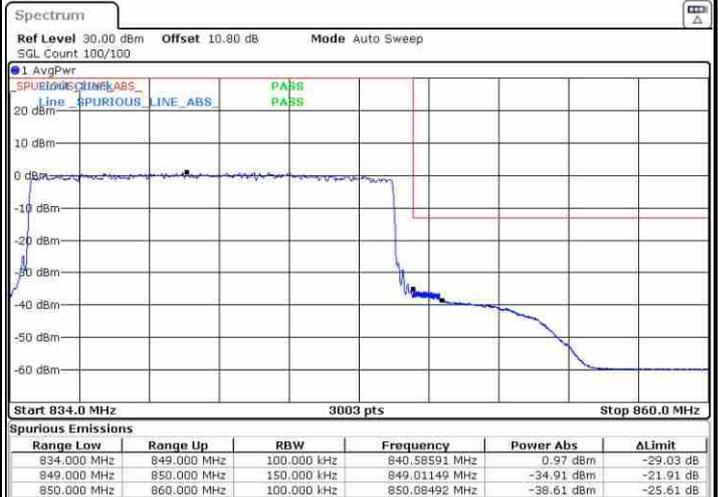
Date: 22 MAY 2019 05:35:46

Lowest Band Edge / Full RB



Date: 22 MAY 2019 05:28:40

Highest Band Edge / Full RB

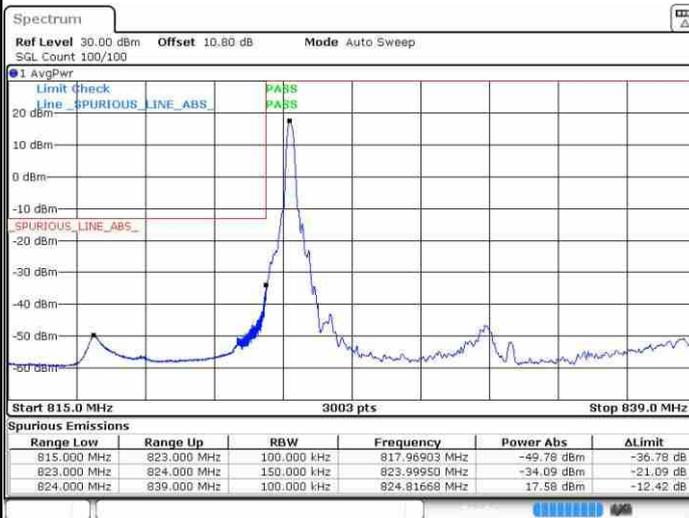


Date: 22 MAY 2019 05:36:27

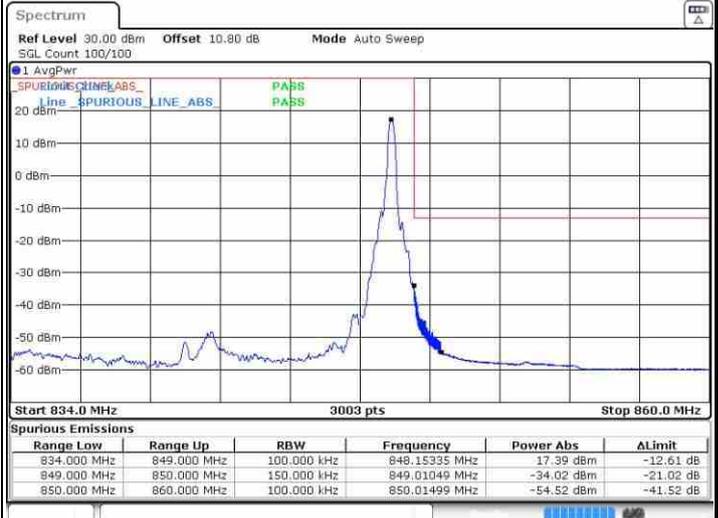


LTE Band 26 / 15MHz / 64QAM

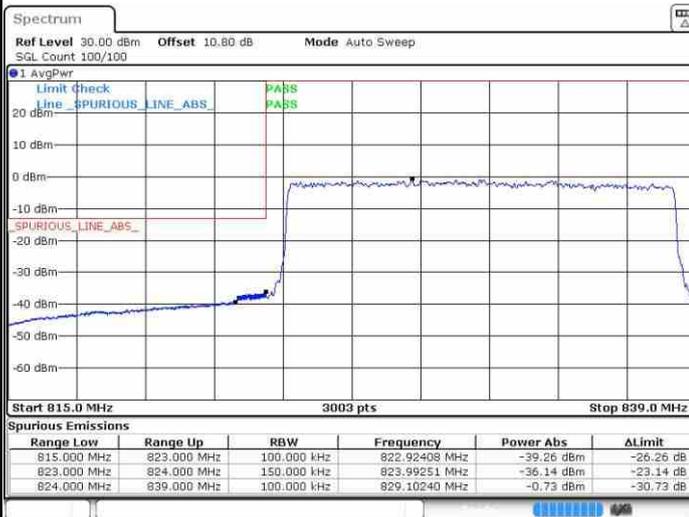
Lowest Band Edge / 1 RB



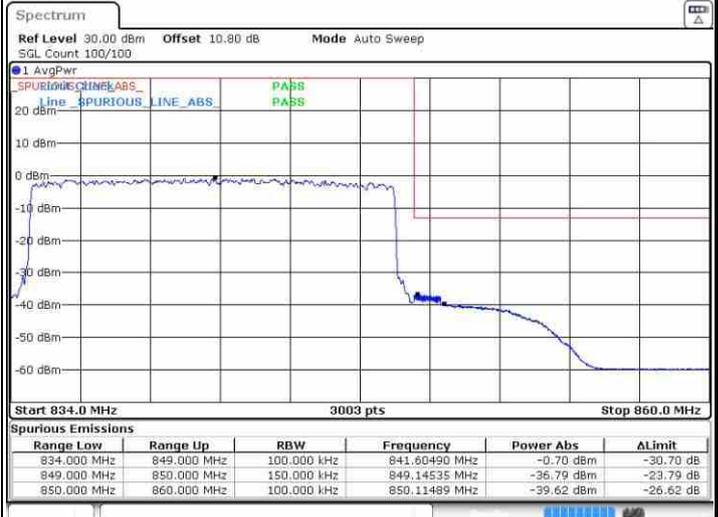
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





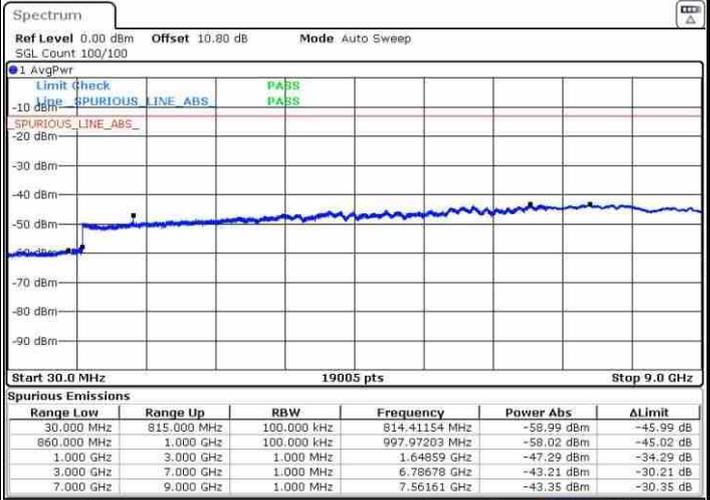
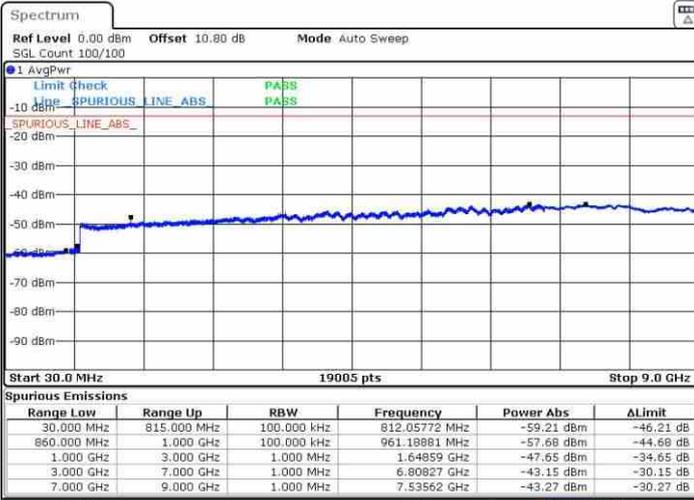
Conducted Spurious Emission



LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

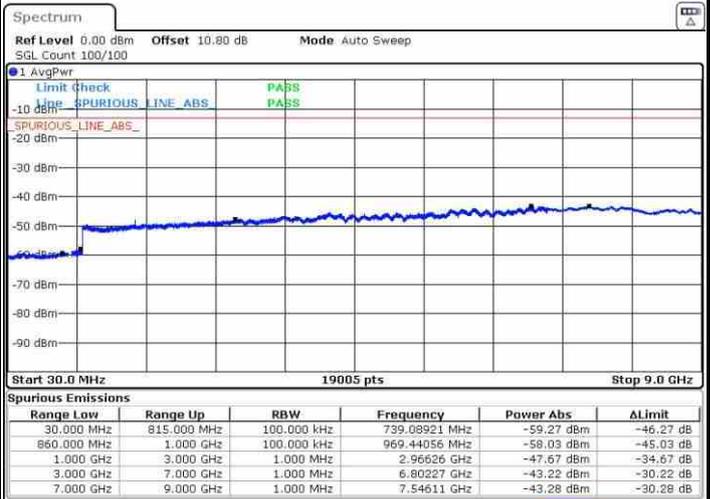


Date: 22 MAY 2019 03:51:18

Date: 22 MAY 2019 03:52:04

Middle Channel / QPSK

Middle Channel / 16QAM



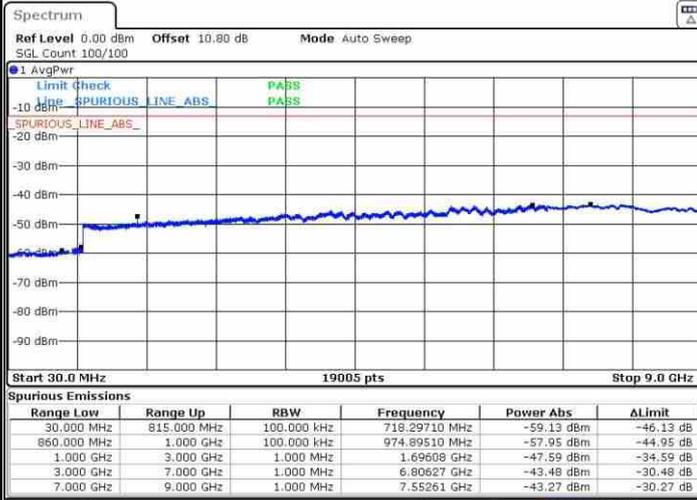
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Date: 22 MAY 2019 03:54:26



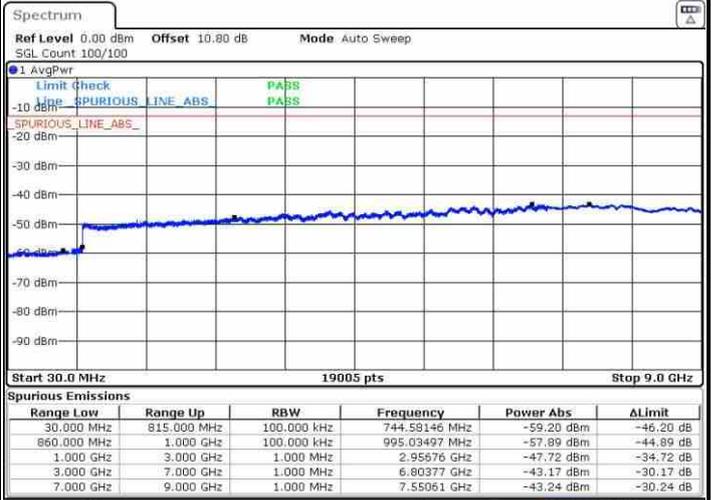
LTE Band 26 / 1.4MHz

Highest Channel / QPSK



Date: 22 MAY 2019 04:02:47

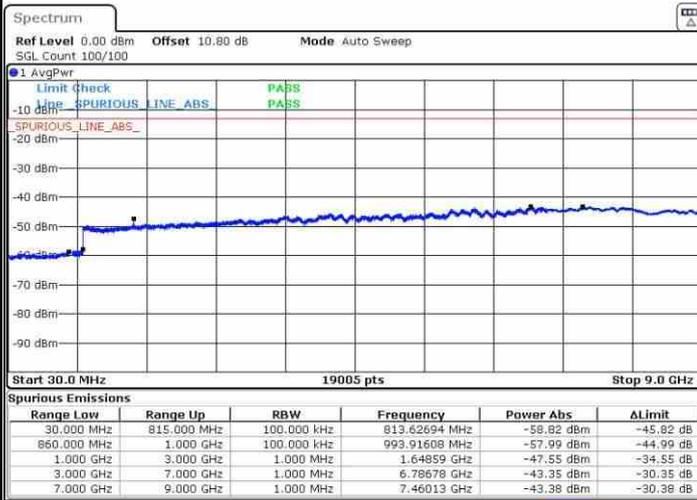
Highest Channel / 16QAM



Date: 22 MAY 2019 04:03:33

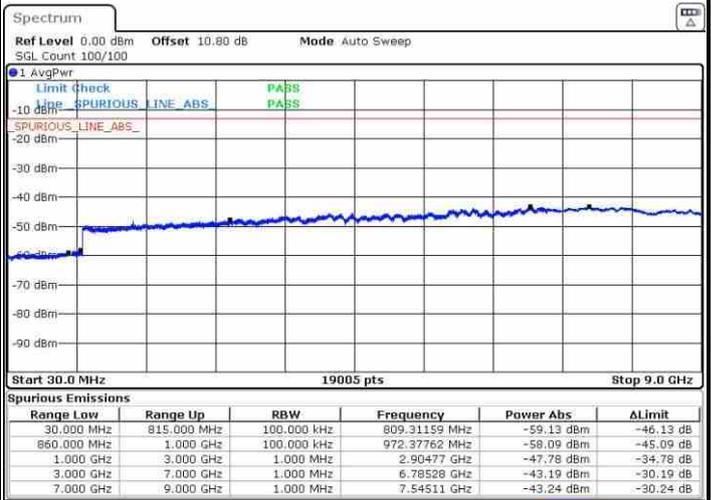
LTE Band 26 / 3MHz

Lowest Channel / QPSK



Date: 22 MAY 2019 04:44:33

Lowest Channel / 16QAM



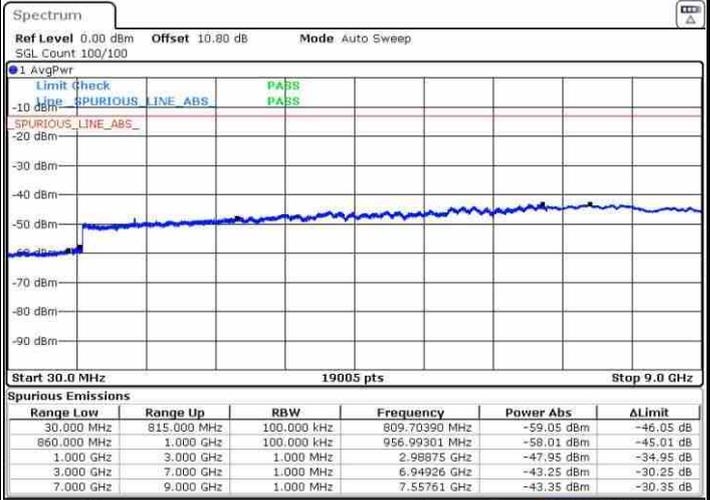
Date: 22 MAY 2019 04:45:14



LTE Band 26 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

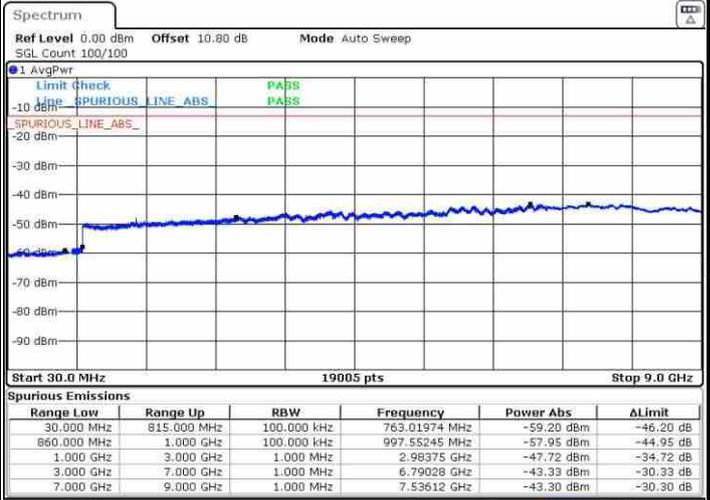


Date: 22 MAY 2019 04:46:45

Date: 22 MAY 2019 04:47:26

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22 MAY 2019 04:52:43

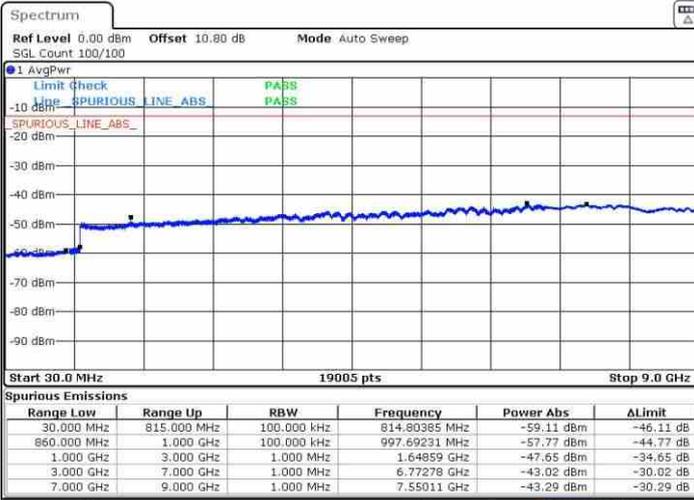
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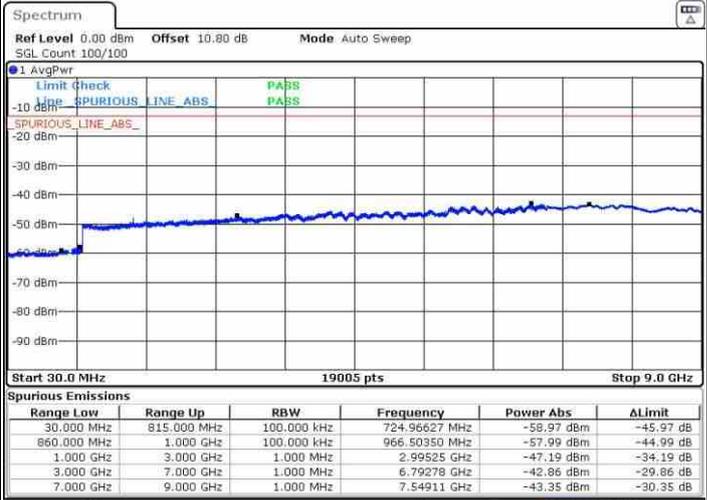
LTE Band 26 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 22 MAY 2019 04:57:39



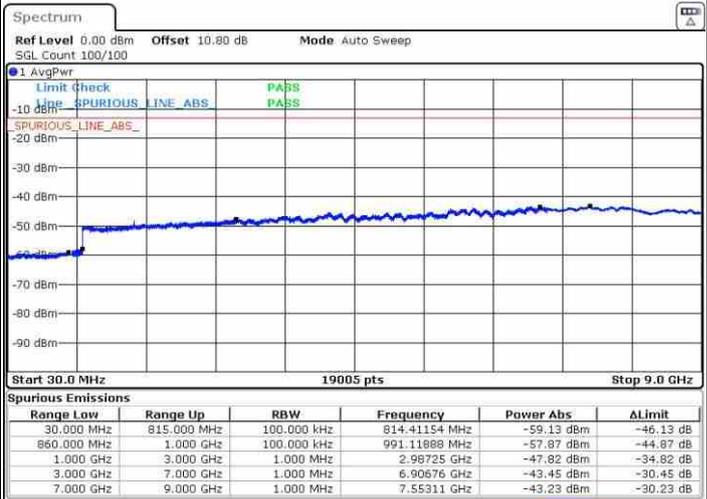
Date: 22 MAY 2019 04:58:20

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 22 MAY 2019 04:59:51

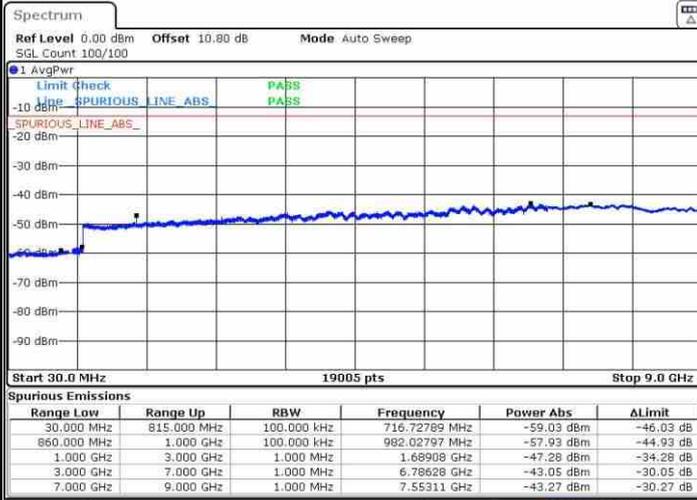


Date: 22 MAY 2019 05:00:32



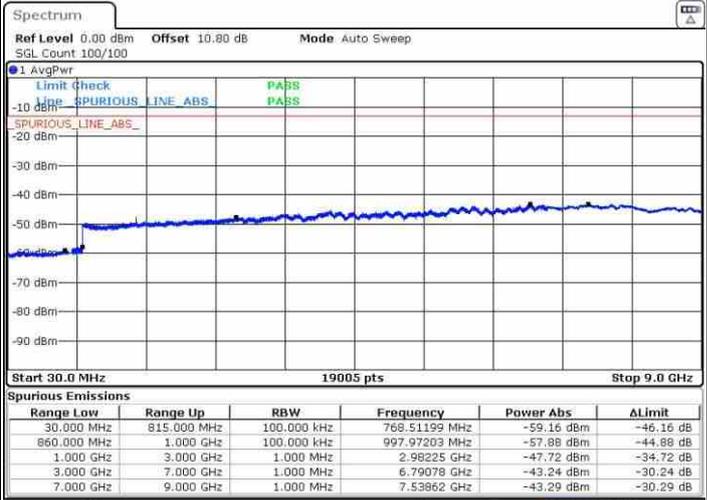
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 22 MAY 2019 05:04:52

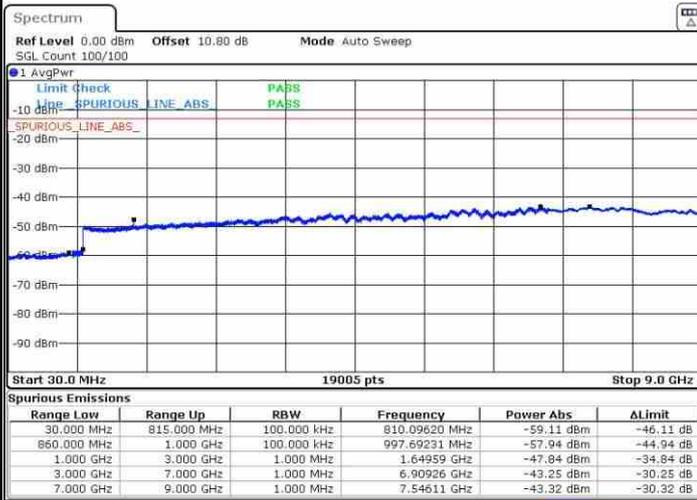
Highest Channel / 16QAM



Date: 22 MAY 2019 05:05:33

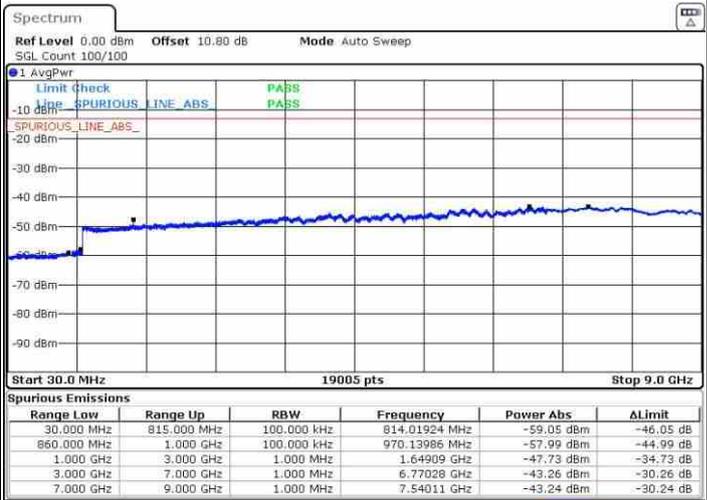
LTE Band 26 / 10MHz

Lowest Channel / QPSK



Date: 22 MAY 2019 05:18:42

Lowest Channel / 16QAM



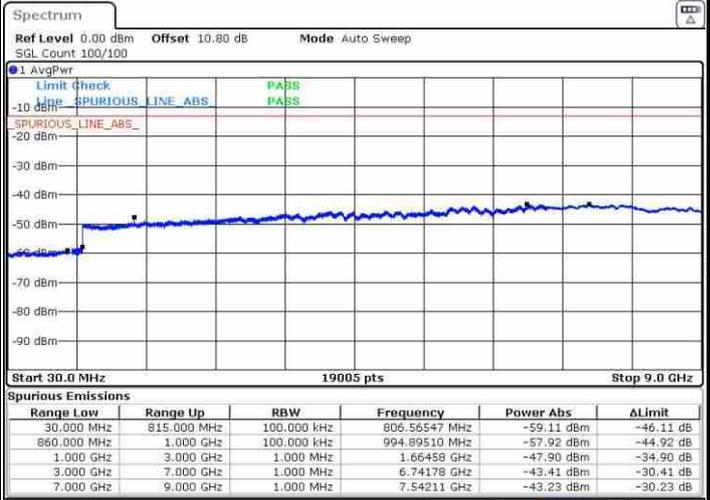
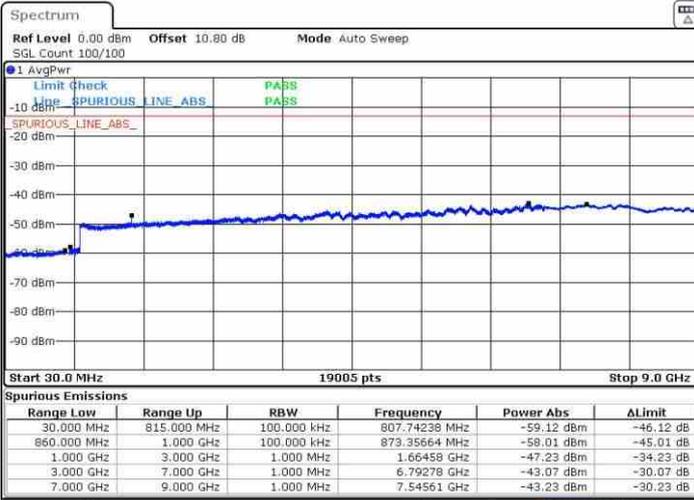
Date: 22 MAY 2019 05:19:23



LTE Band 26 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

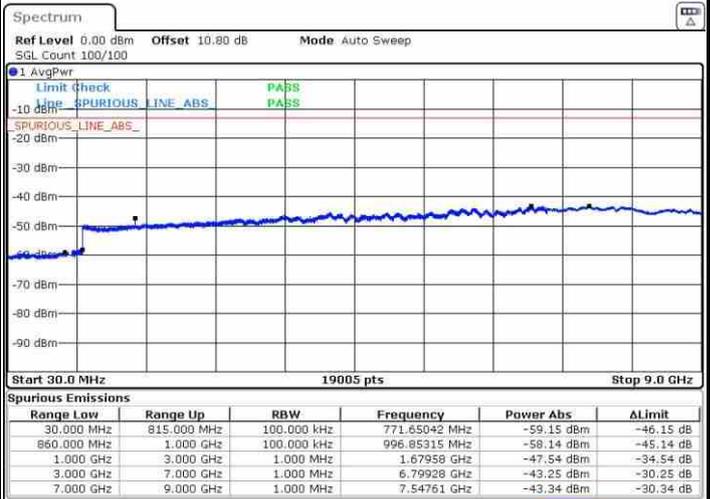
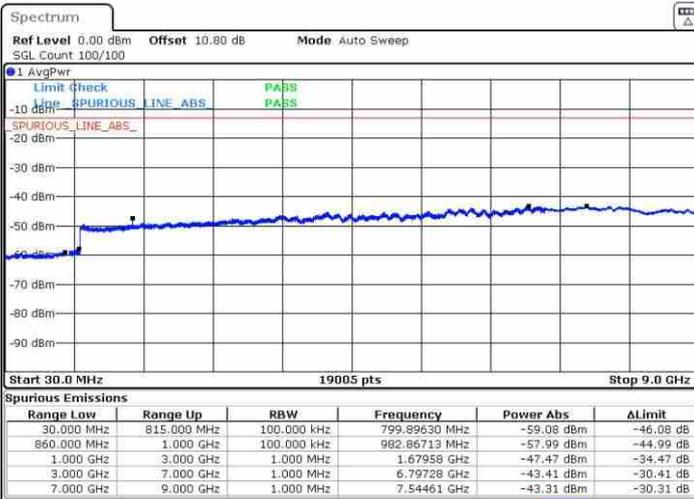


Date: 22 MAY 2019 05:20:54

Date: 22 MAY 2019 05:21:35

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22 MAY 2019 05:25:50

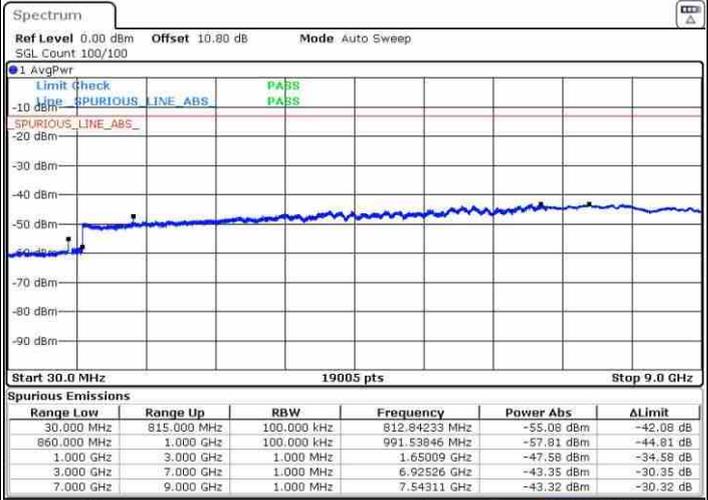
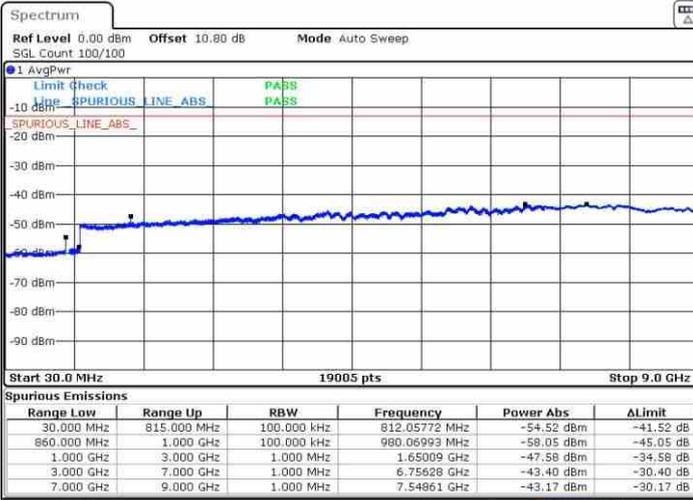
Date: 22 MAY 2019 05:26:32



LTE Band 26 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

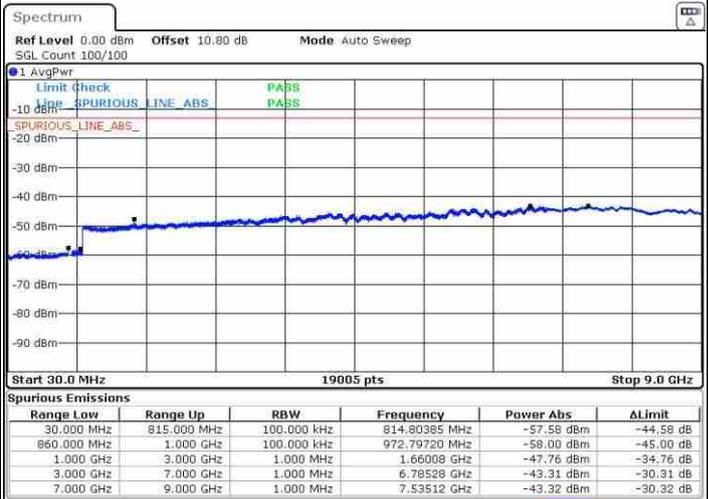
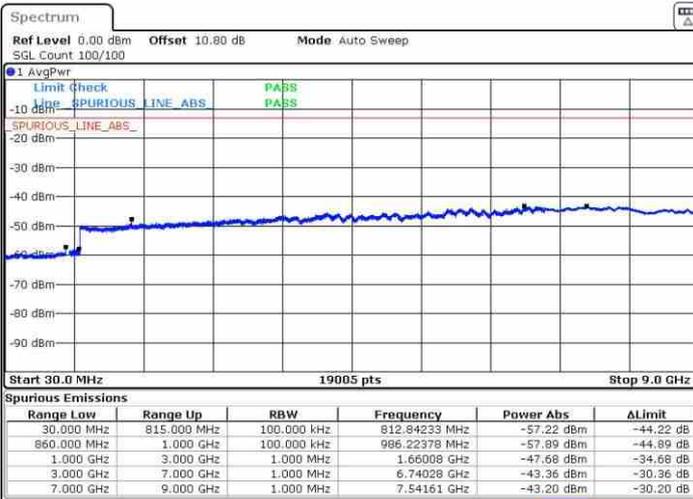


Date: 22 MAY 2019 05:30:42

Date: 22 MAY 2019 05:31:22

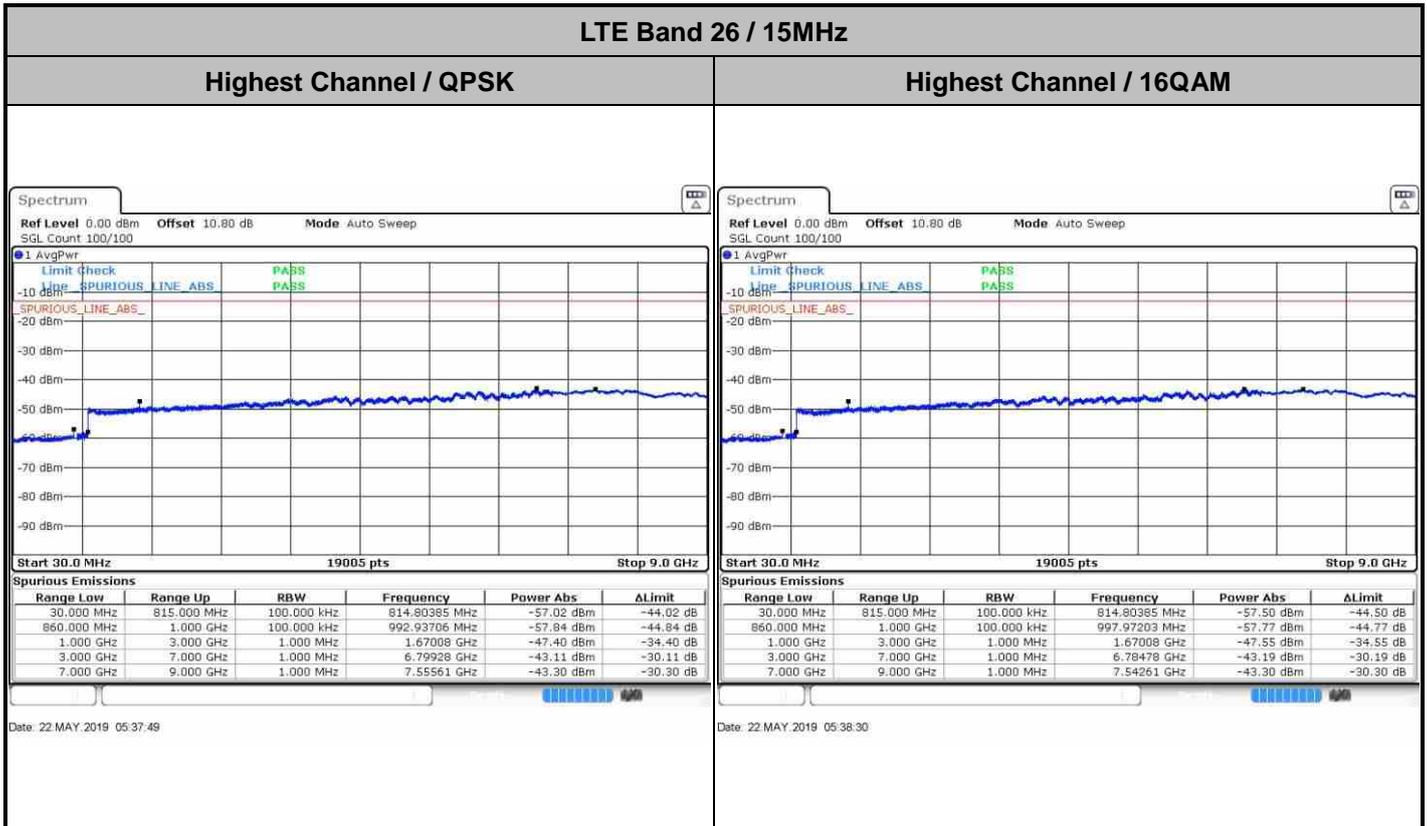
Middle Channel / QPSK

Middle Channel / 16QAM



Date: 22 MAY 2019 05:32:53

Date: 22 MAY 2019 05:33:34

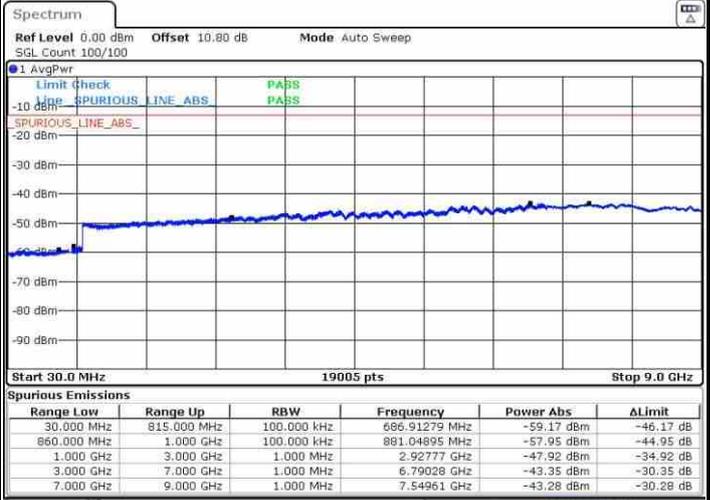
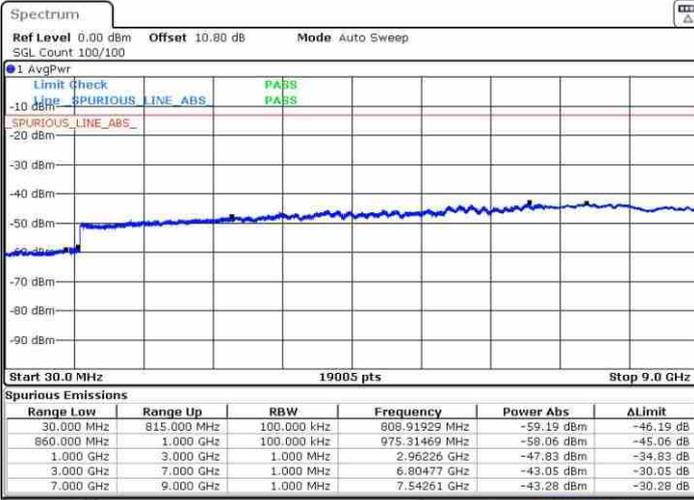




LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

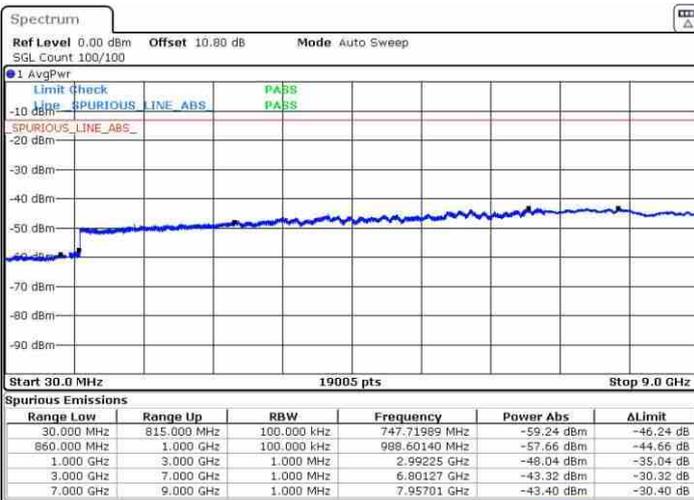
Middle Channel / 64QAM



Date: 22 MAY 2019 04:08:06

Date: 22 MAY 2019 04:09:17

Highest Channel / 64QAM



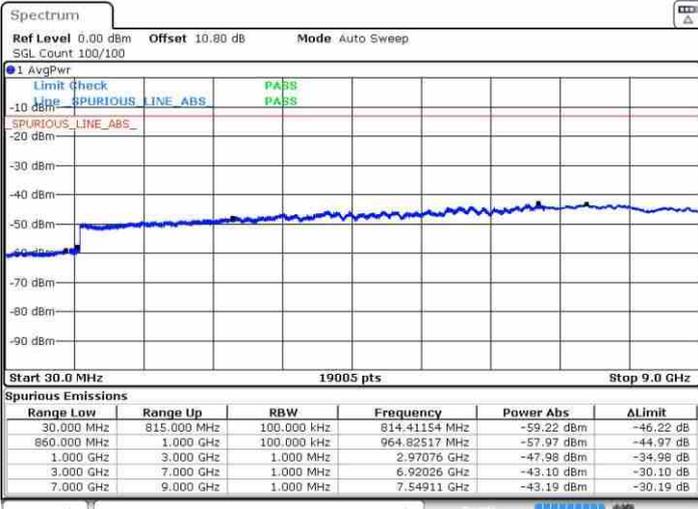
Date: 22 MAY 2019 04:13:50



LTE Band 26 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

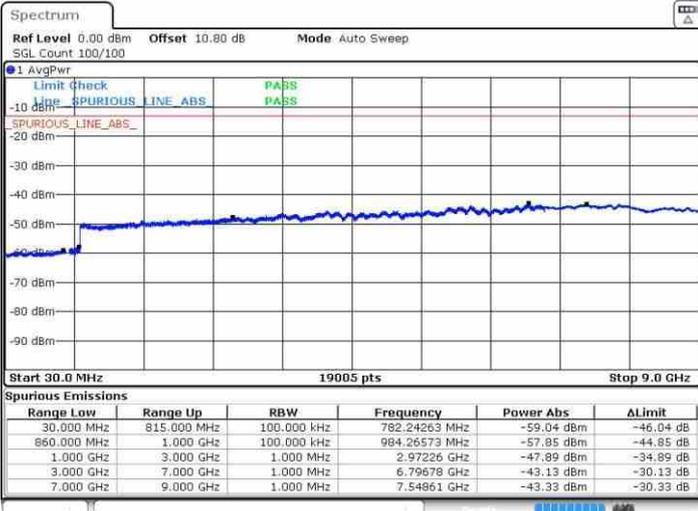


Date: 22 MAY 2019 04:17:22



Date: 22 MAY 2019 04:18:28

Highest Channel / 64QAM



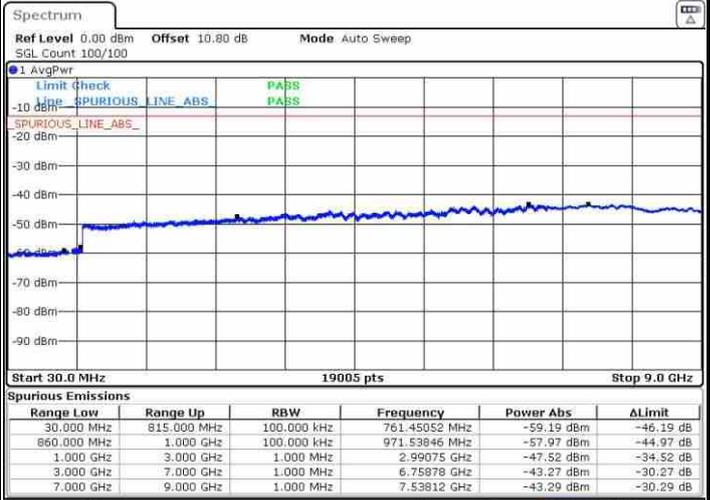
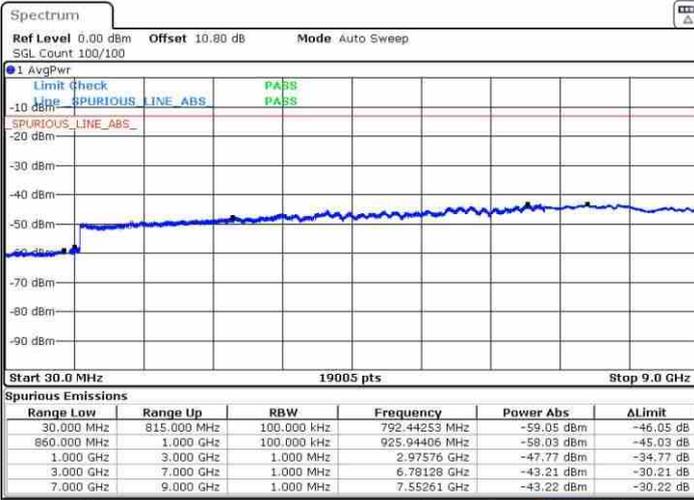
Date: 22 MAY 2019 04:21:27



LTE Band 26 / 5MHz

Lowest Channel / 64QAM

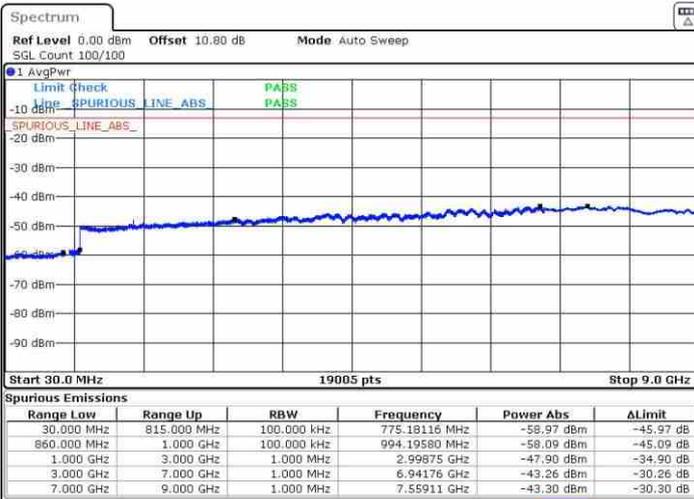
Middle Channel / 64QAM



Date: 22 MAY 2019 04:23:55

Date: 22 MAY 2019 04:25:01

Highest Channel / 64QAM



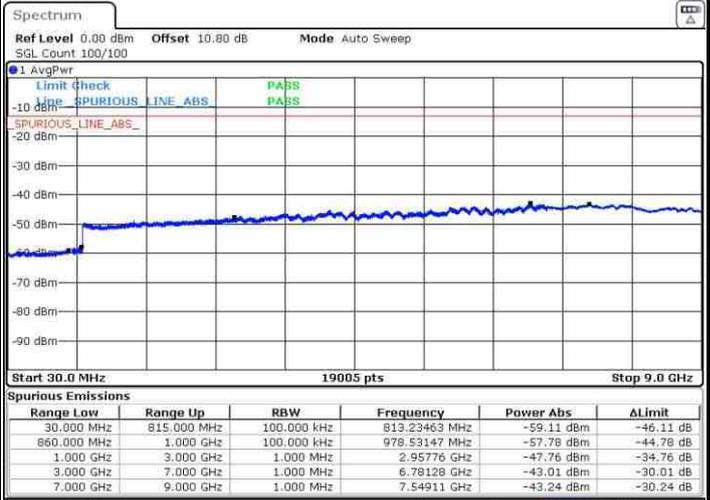
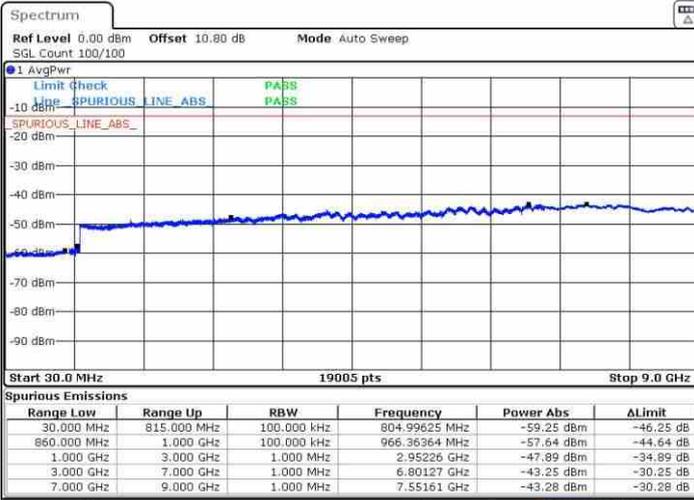
Date: 22 MAY 2019 04:27:31



LTE Band 26 / 10MHz

Lowest Channel / 64QAM

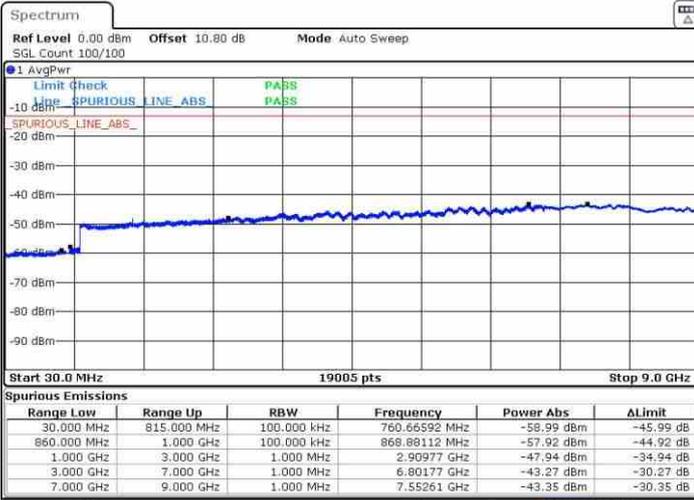
Middle Channel / 64QAM



Date: 22 MAY 2019 04:29:59

Date: 22 MAY 2019 04:31:05

Highest Channel / 64QAM

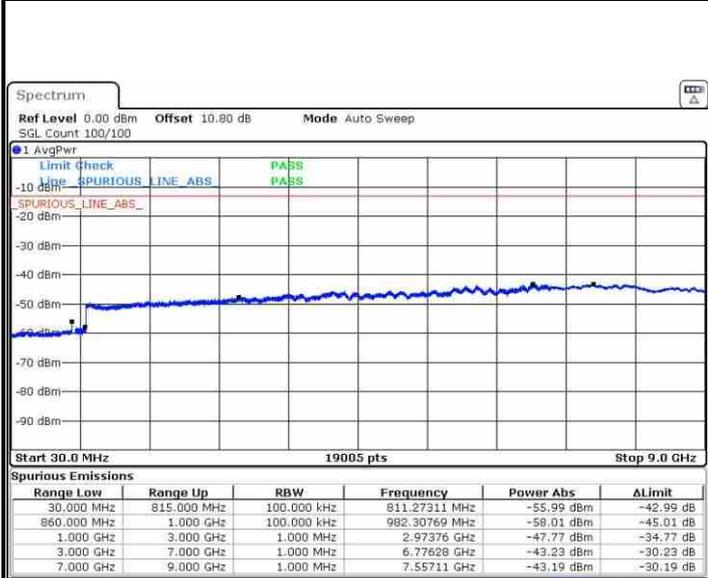


Date: 22 MAY 2019 04:33:32



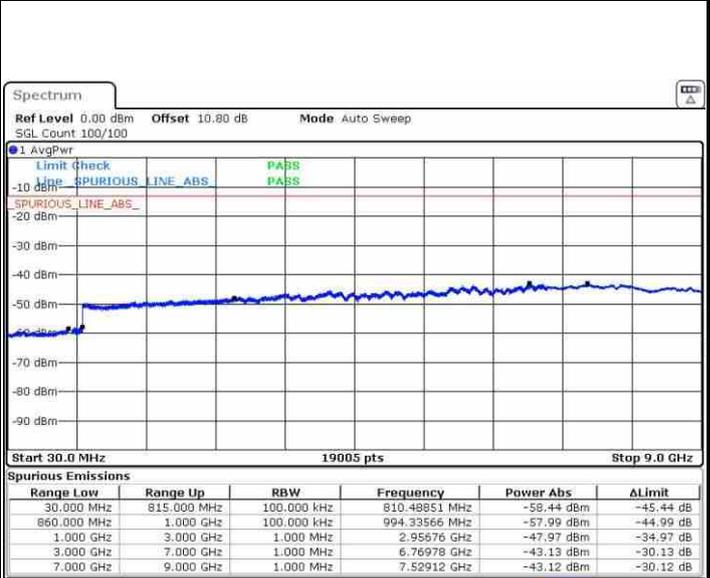
LTE Band 26 / 15MHz

Lowest Channel / 64QAM



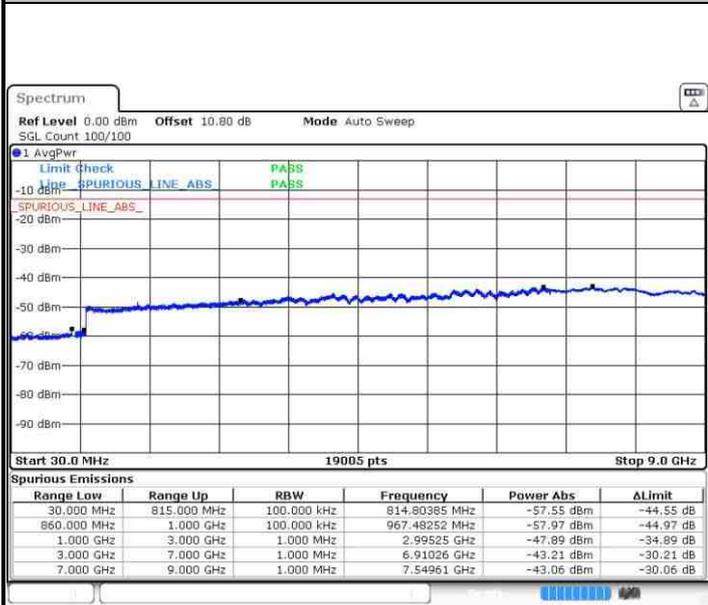
Date: 22 MAY 2019 04:35:58

Middle Channel / 64QAM



Date: 22 MAY 2019 04:37:03

Highest Channel / 64QAM



Date: 22 MAY 2019 04:39:31



Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0106	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	5.01	4.49	5.97	PASS
Middle CH	3.57	4.96	4.26	5.94	
Highest CH	3.68	4.81	4.32	5.86	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.16	6.49	-	-	PASS
Middle CH	5.13	6.52	-	-	
Highest CH	5.19	6.46	-	-	



LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 23 MAY 2019 02:05:54

Lowest Channel / Full RB



Date: 23 MAY 2019 02:06:11

Middle Channel / 1RB



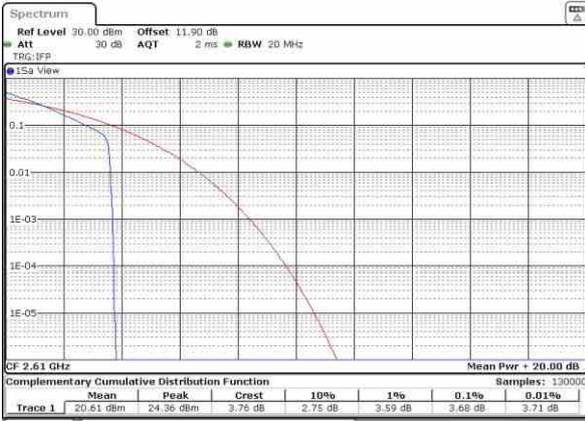
Date: 23 MAY 2019 02:06:27

Middle Channel / Full RB



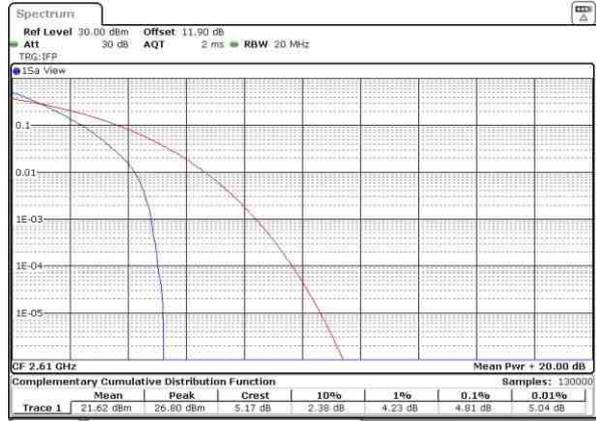
Date: 23 MAY 2019 02:06:42

Highest Channel / 1RB



Date: 23 MAY 2019 02:06:57

Highest Channel / Full RB



Date: 23 MAY 2019 02:07:14



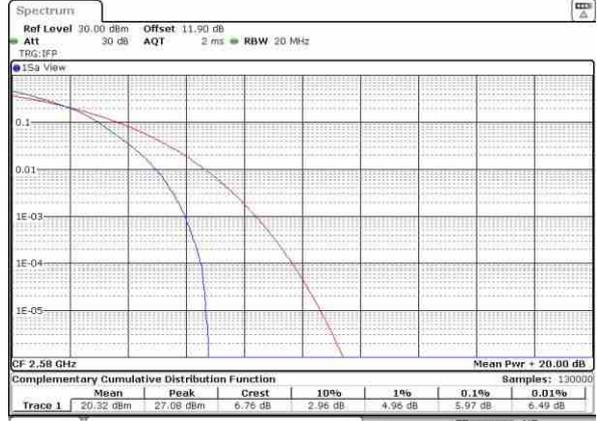
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 23 MAY 2019 02:03:56

Lowest Channel / Full RB



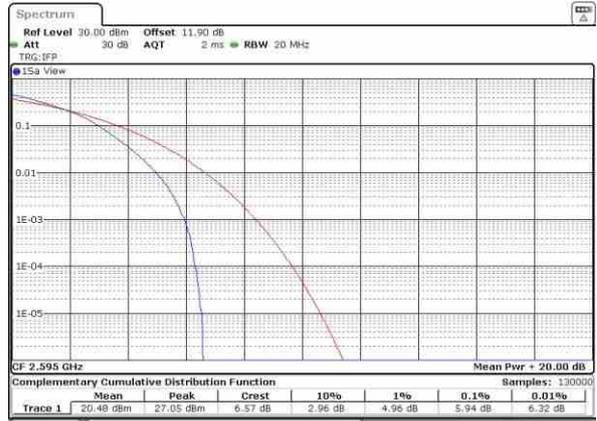
Date: 23 MAY 2019 02:04:12

Middle Channel / 1RB



Date: 23 MAY 2019 02:04:28

Middle Channel / Full RB



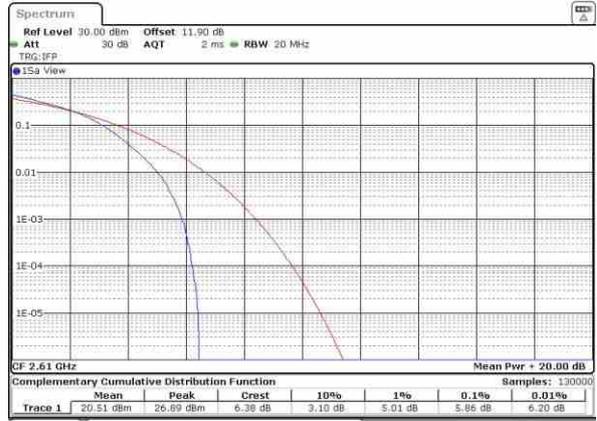
Date: 23 MAY 2019 02:04:43

Highest Channel / 1RB



Date: 23 MAY 2019 02:04:58

Highest Channel / Full RB

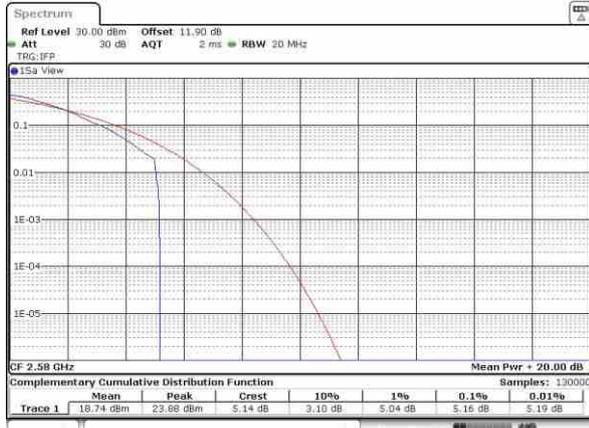


Date: 23 MAY 2019 02:05:16



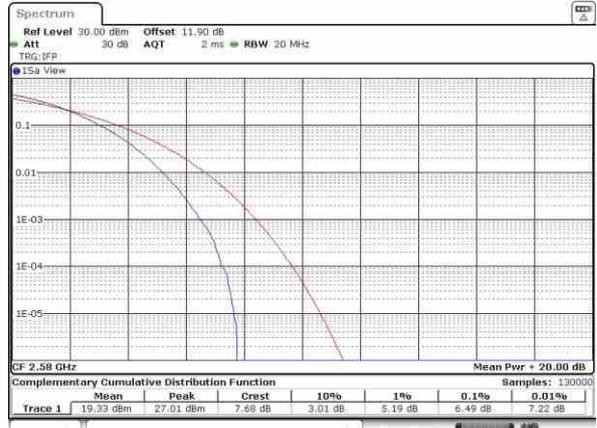
LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



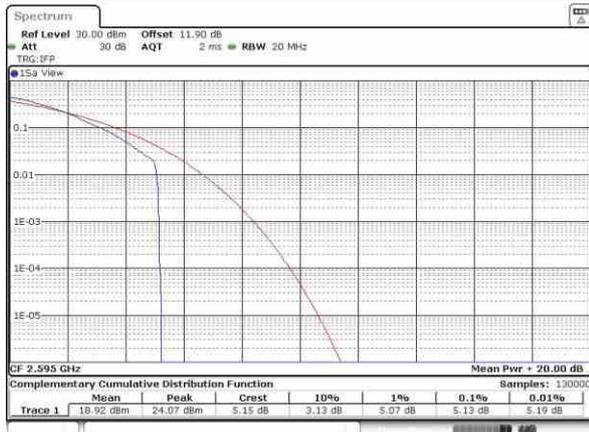
Date: 23 MAY 2019 02:02:16

Lowest Channel / Full RB



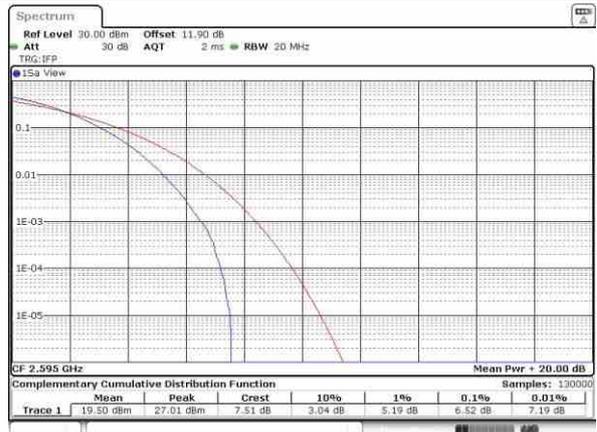
Date: 23 MAY 2019 02:02:33

Middle Channel / 1RB



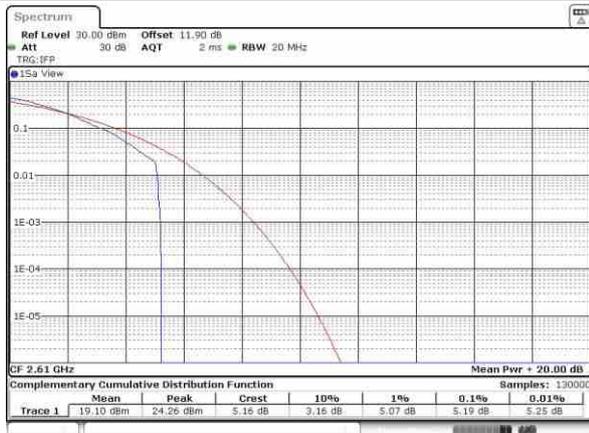
Date: 23 MAY 2019 02:02:50

Middle Channel / Full RB



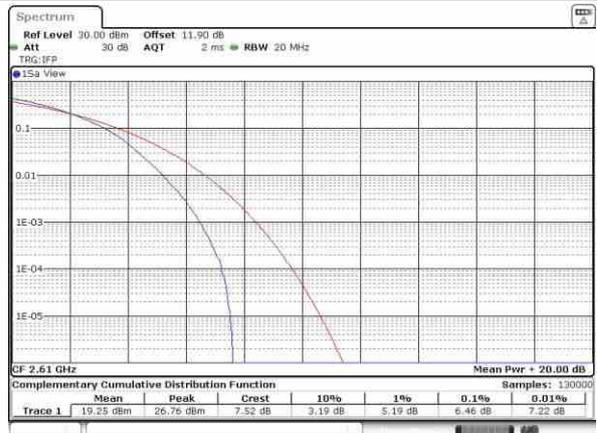
Date: 23 MAY 2019 02:03:06

Highest Channel / 1RB



Date: 23 MAY 2019 02:03:22

Highest Channel / Full RB



Date: 23 MAY 2019 02:03:39



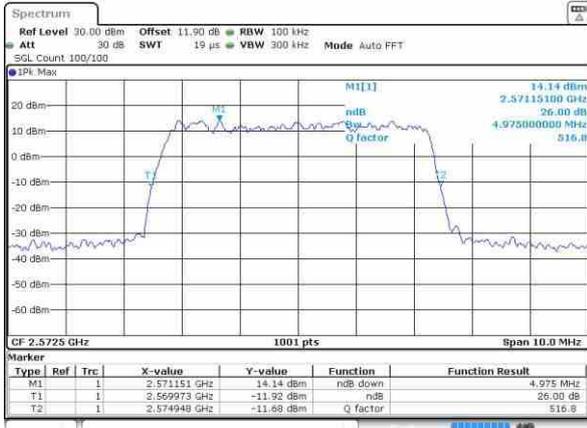
26dB Bandwidth

Mode	LTE Band 38 : 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	-	-	-	-	4.98	4.90	9.83	9.59	14.42	14.27	18.90	18.62
Middle CH	-	-	-	-	4.96	4.88	9.79	9.69	14.24	14.39	18.62	19.02
Highest CH	-	-	-	-	4.76	4.97	9.83	9.65	14.21	14.12	18.70	18.94
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.75	-	9.83	-	14.30	-	18.62	-
Middle CH	-	-	-	-	4.78	-	9.73	-	14.27	-	19.02	-
Highest CH	-	-	-	-	4.87	-	9.61	-	14.39	-	18.66	-



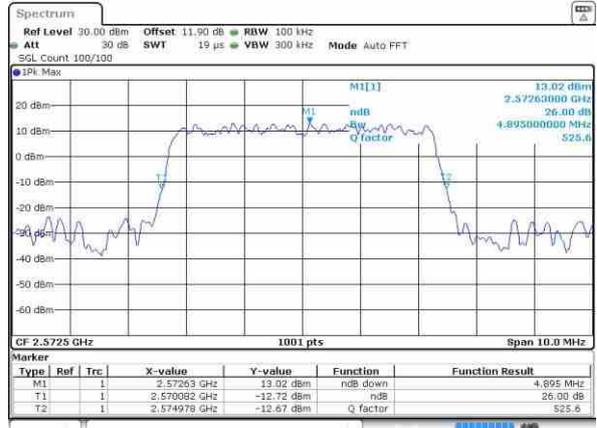
LTE Band 38

Lowest Channel / 5MHz / QPSK



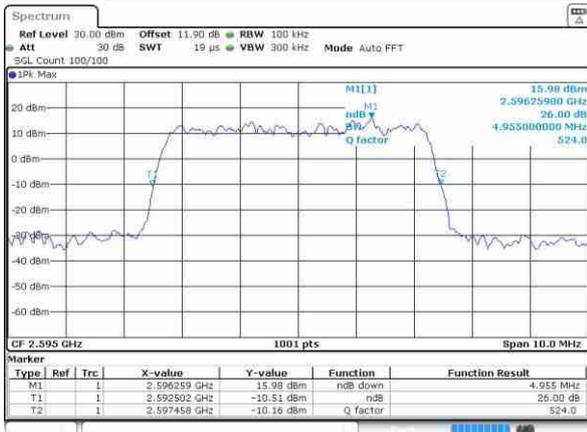
Date: 23 MAY 2019 01:19:14

Lowest Channel / 5MHz / 16QAM



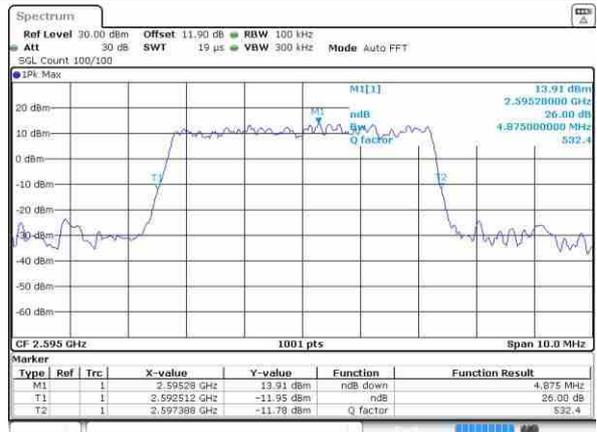
Date: 23 MAY 2019 01:19:26

Middle Channel / 5MHz / QPSK



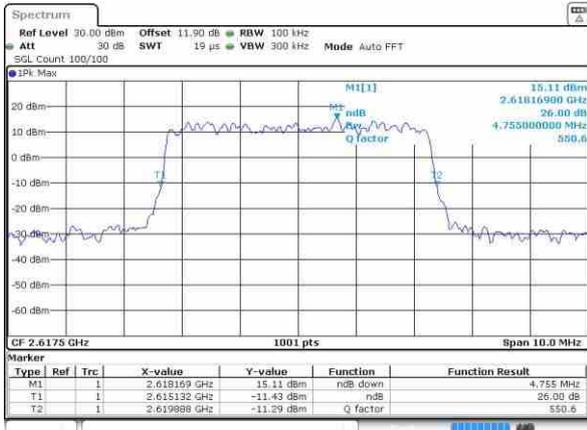
Date: 23 MAY 2019 01:20:02

Middle Channel / 5MHz / 16QAM



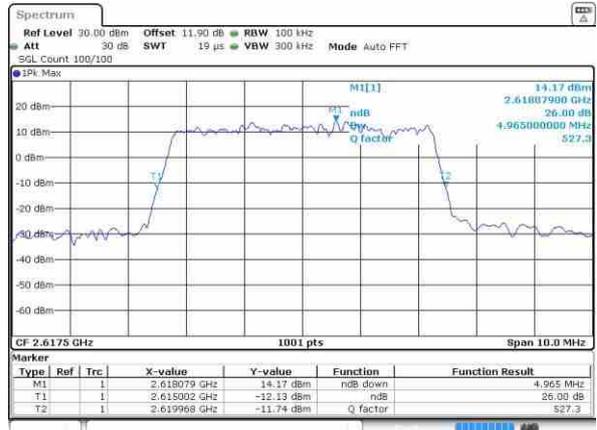
Date: 23 MAY 2019 01:20:14

Highest Channel / 5MHz / QPSK



Date: 23 MAY 2019 01:20:51

Highest Channel / 5MHz / 16QAM

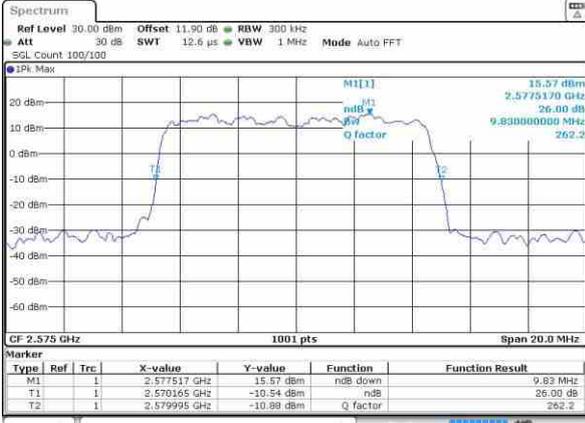


Date: 23 MAY 2019 01:21:03



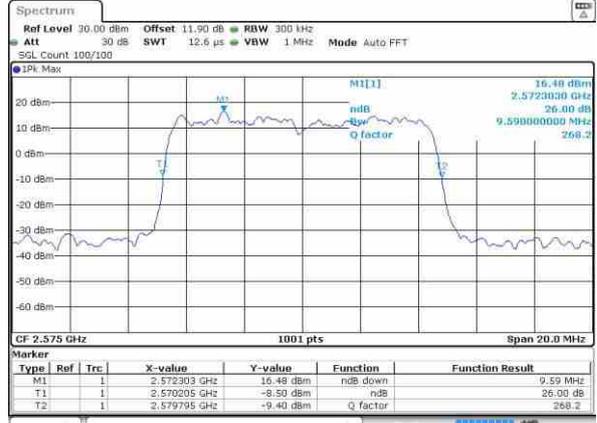
LTE Band 38

Lowest Channel / 10MHz / QPSK



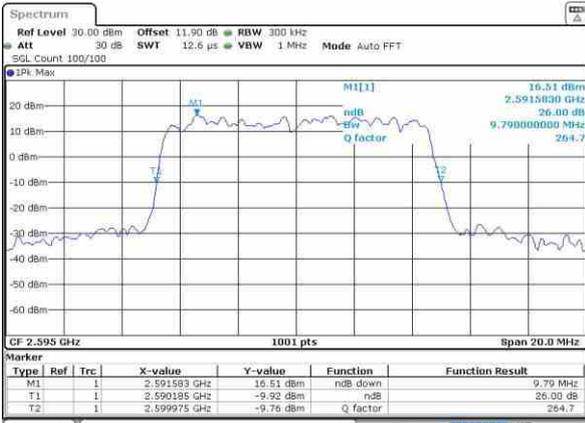
Date: 23 MAY 2019 01:21:41

Lowest Channel / 10MHz / 16QAM



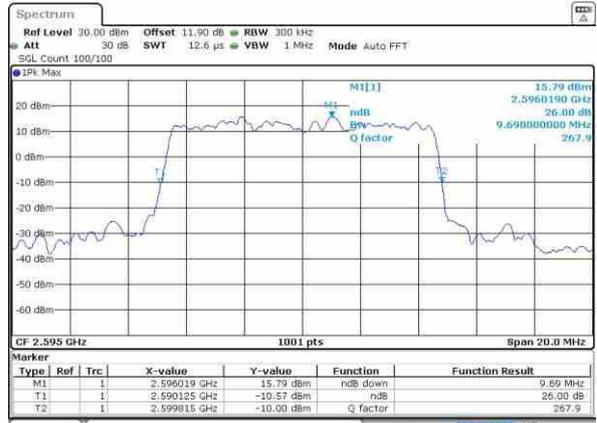
Date: 23 MAY 2019 01:21:54

Middle Channel / 10MHz / QPSK



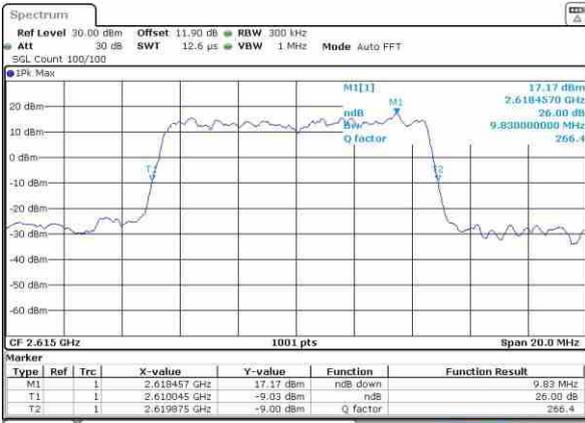
Date: 23 MAY 2019 01:22:30

Middle Channel / 10MHz / 16QAM



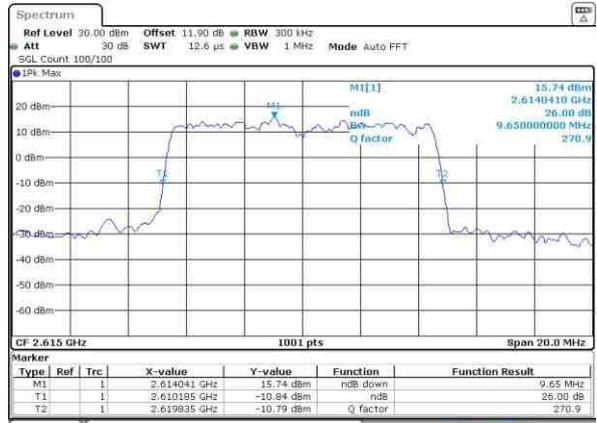
Date: 23 MAY 2019 01:22:41

Highest Channel / 10MHz / QPSK



Date: 23 MAY 2019 01:23:18

Highest Channel / 10MHz / 16QAM

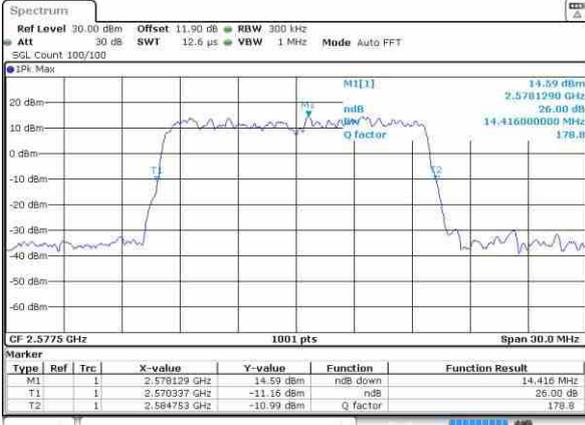


Date: 23 MAY 2019 01:23:30



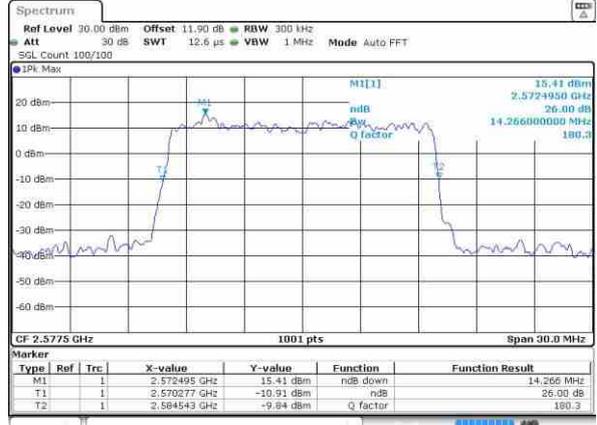
LTE Band 38

Lowest Channel / 15MHz / QPSK



Date: 23 MAY 2019 01:24:09

Lowest Channel / 15MHz / 16QAM



Date: 23 MAY 2019 01:24:21

Middle Channel / 15MHz / QPSK



Date: 23 MAY 2019 01:25:17

Middle Channel / 15MHz / 16QAM



Date: 23 MAY 2019 01:25:09

Highest Channel / 15MHz / QPSK



Date: 23 MAY 2019 01:25:46

Highest Channel / 15MHz / 16QAM

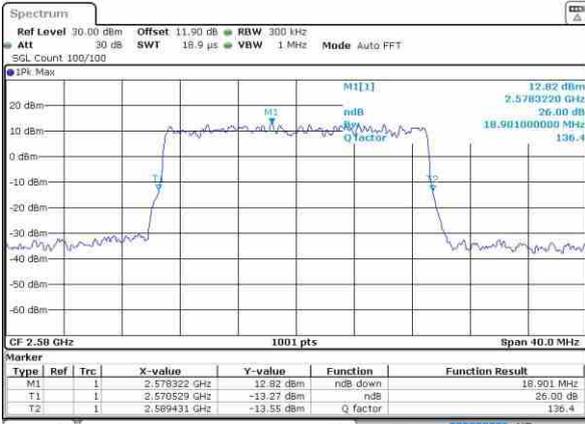


Date: 23 MAY 2019 01:25:58



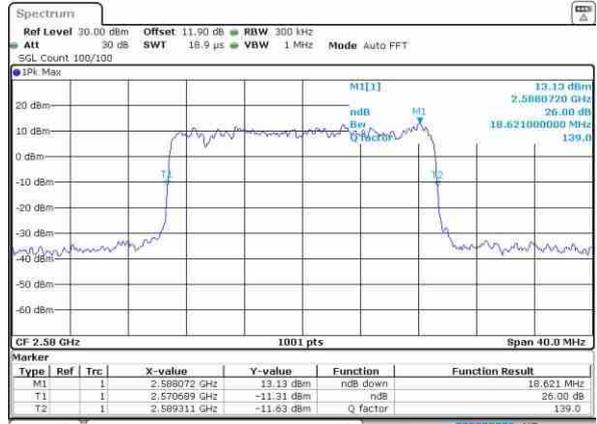
LTE Band 38

Lowest Channel / 20MHz / QPSK



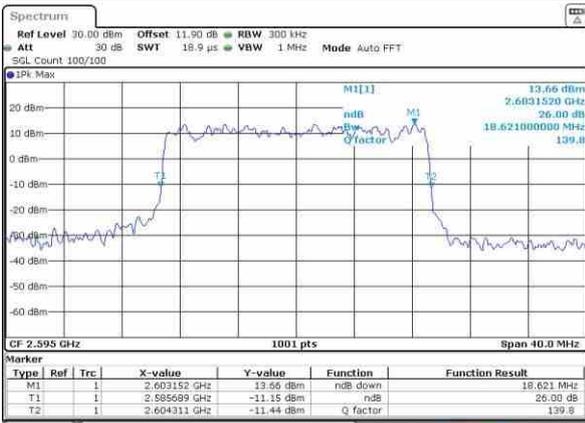
Date: 23 MAY 2019 01:26:37

Lowest Channel / 20MHz / 16QAM



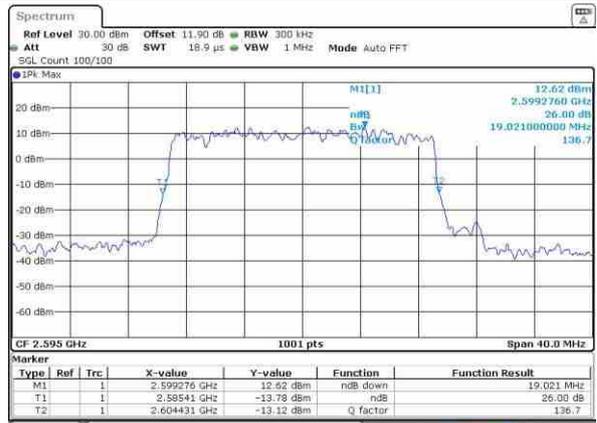
Date: 23 MAY 2019 01:26:49

Middle Channel / 20MHz / QPSK



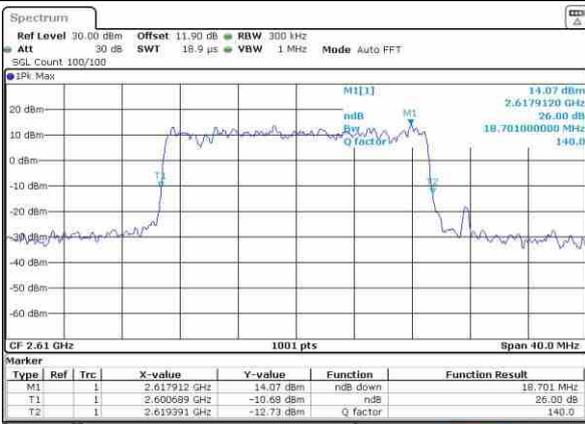
Date: 23 MAY 2019 01:27:24

Middle Channel / 20MHz / 16QAM



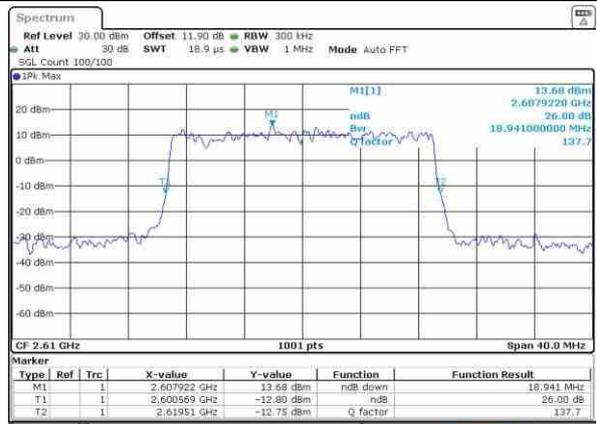
Date: 23 MAY 2019 01:27:36

Highest Channel / 20MHz / QPSK



Date: 23 MAY 2019 01:28:13

Highest Channel / 20MHz / 16QAM

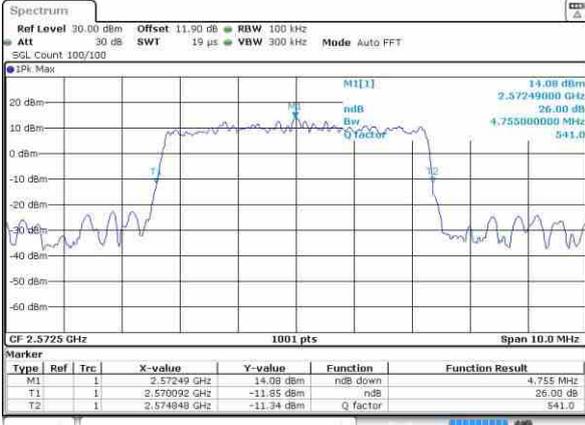


Date: 23 MAY 2019 01:28:25



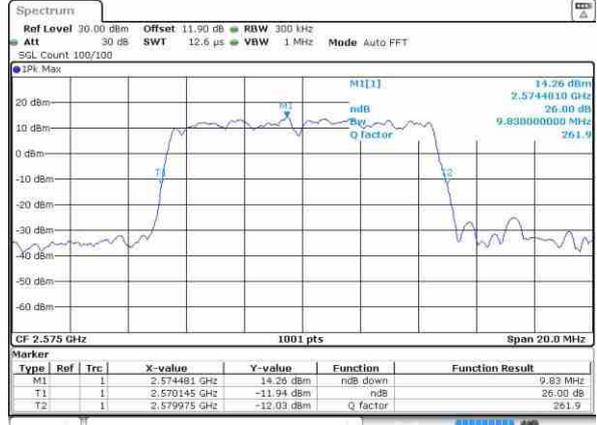
LTE Band 38

Lowest Channel / 5MHz / 64QAM



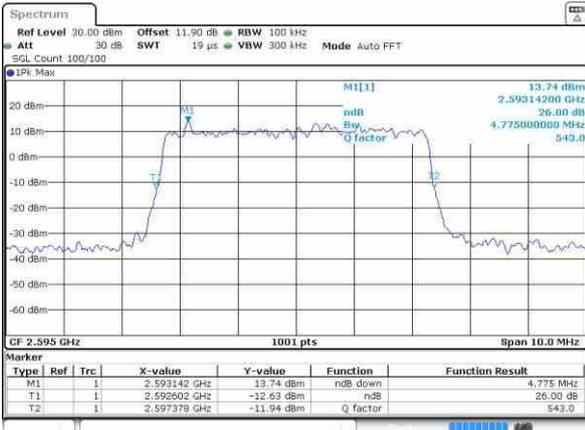
Date: 23 MAY 2019 01:28:51

Lowest Channel / 10MHz / 64QAM



Date: 23 MAY 2019 01:30:06

Middle Channel / 5MHz / 64QAM



Date: 23 MAY 2019 01:28:15

Middle Channel / 10MHz / 64QAM



Date: 23 MAY 2019 01:30:29

Highest Channel / 5MHz / 64QAM



Date: 23 MAY 2019 01:29:40

Highest Channel / 10MHz / 64QAM

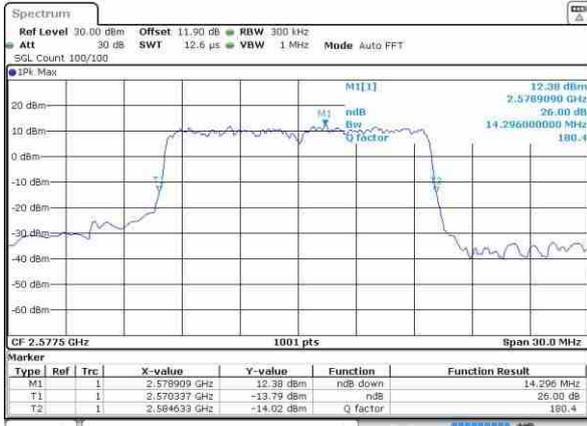


Date: 23 MAY 2019 01:30:54



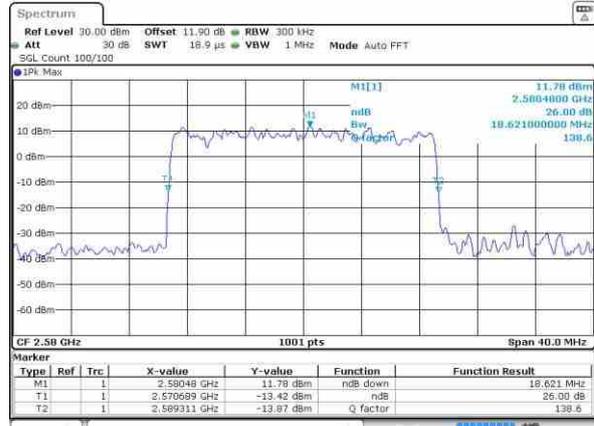
LTE Band 38

Lowest Channel / 15MHz / 64QAM



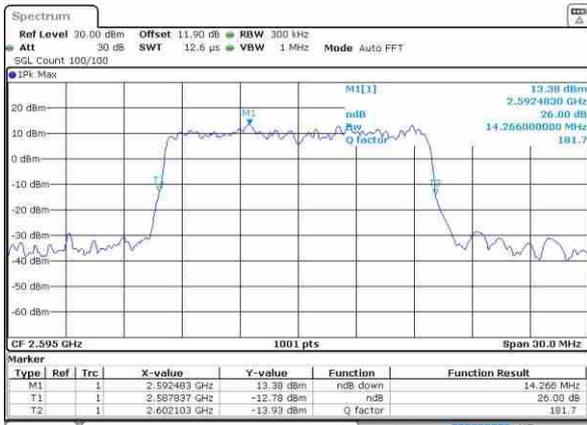
Date: 23 MAY 2019 01:31:20

Lowest Channel / 20MHz / 64QAM



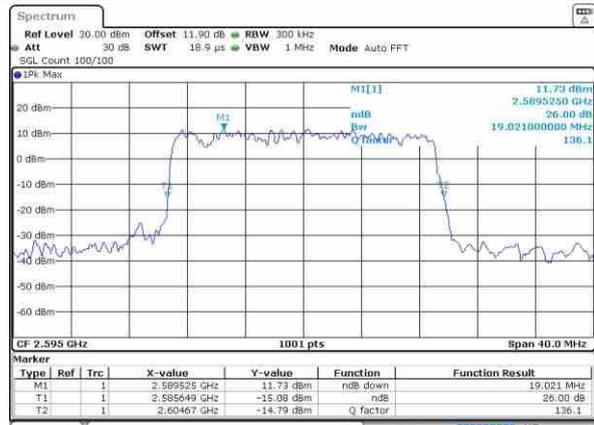
Date: 23 MAY 2019 01:32:33

Middle Channel / 15MHz / 64QAM



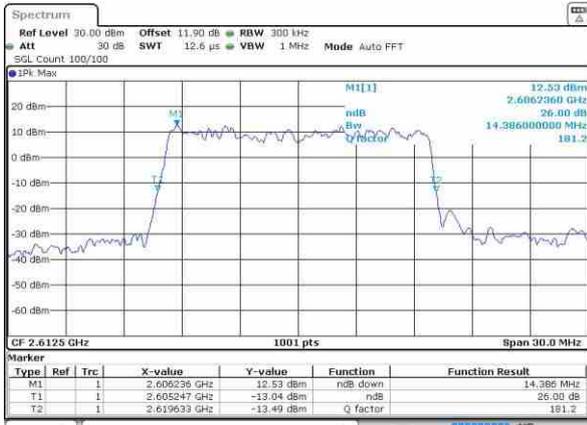
Date: 23 MAY 2019 01:31:43

Middle Channel / 20MHz / 64QAM



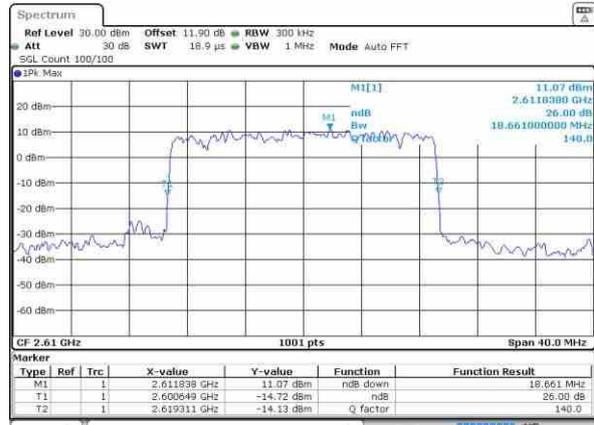
Date: 23 MAY 2019 01:32:57

Highest Channel / 15MHz / 64QAM



Date: 23 MAY 2019 01:32:07

Highest Channel / 20MHz / 64QAM



Date: 23 MAY 2019 01:33:21



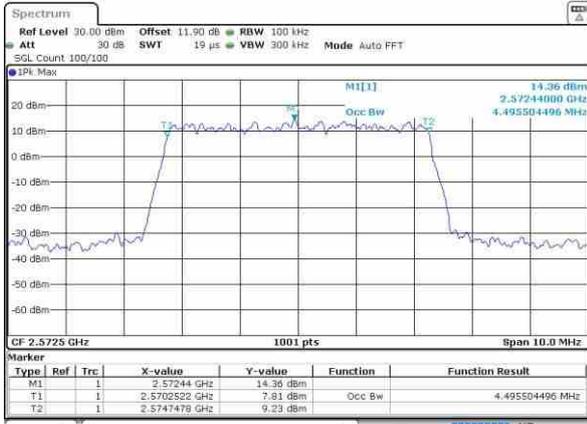
Occupied Bandwidth

Mode	LTE Band 38 : 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	-	-	-	-	4.50	4.50	9.03	8.99	13.46	13.37	17.90	17.82
Middle CH	-	-	-	-	4.51	4.47	9.11	9.03	13.43	13.37	17.82	17.82
Highest CH	-	-	-	-	4.46	4.48	8.95	8.93	13.49	13.43	17.86	17.82
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51	-	8.99	-	13.49	-	17.82	-
Middle CH	-	-	-	-	4.49	-	9.03	-	13.40	-	17.86	-
Highest CH	-	-	-	-	4.48	-	9.09	-	13.43	-	17.82	-



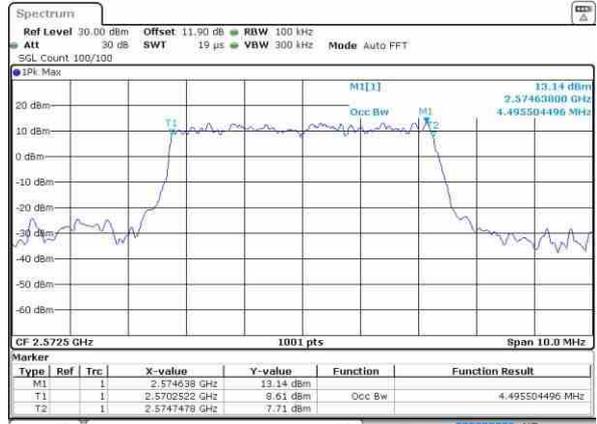
LTE Band 38

Lowest Channel / 5MHz / QPSK



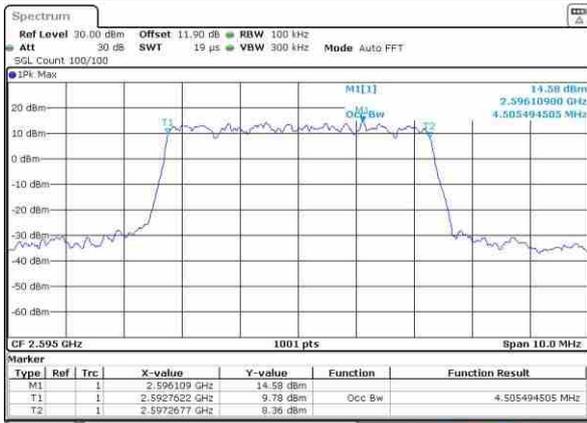
Date: 23 MAY 2019 01:18:45

Lowest Channel / 5MHz / 16QAM



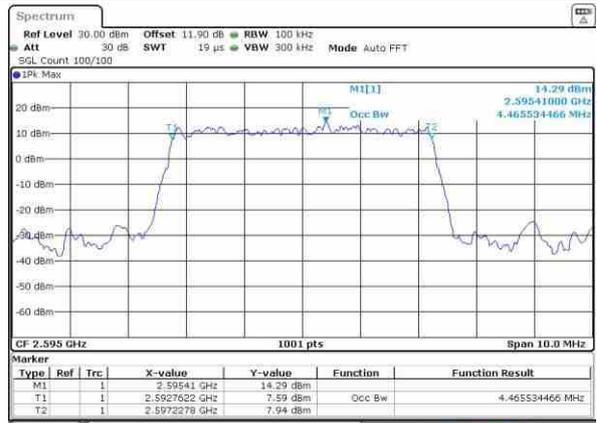
Date: 23 MAY 2019 01:19:02

Middle Channel / 5MHz / QPSK



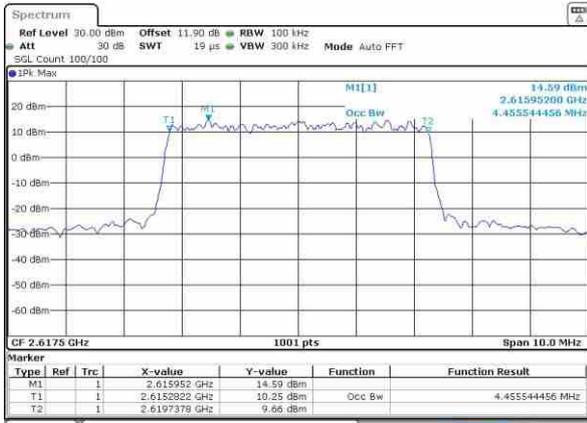
Date: 23 MAY 2019 01:19:38

Middle Channel / 5MHz / 16QAM



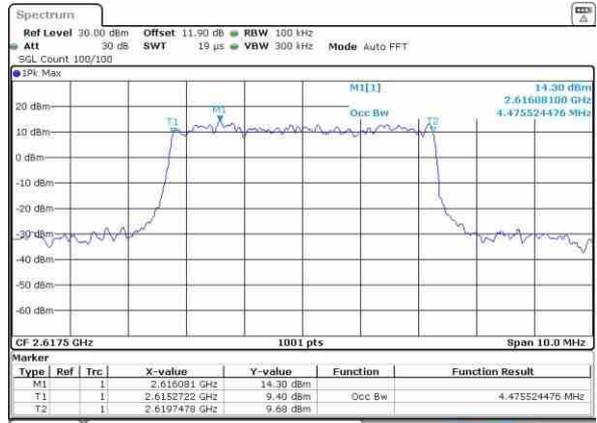
Date: 23 MAY 2019 01:19:50

Highest Channel / 5MHz / QPSK



Date: 23 MAY 2019 01:20:26

Highest Channel / 5MHz / 16QAM



Date: 23 MAY 2019 01:20:38