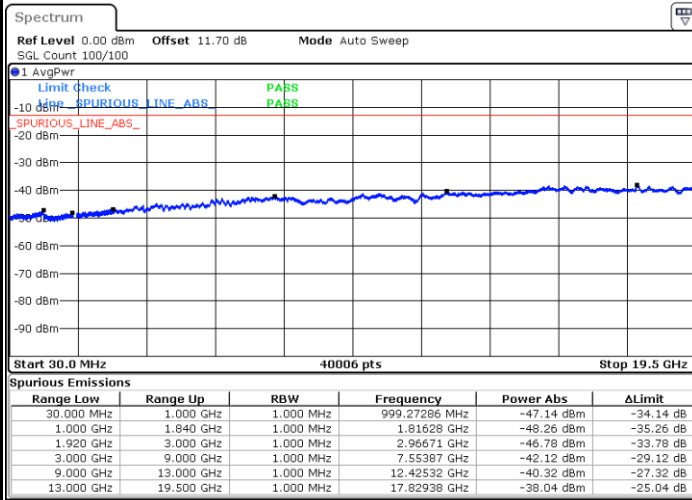




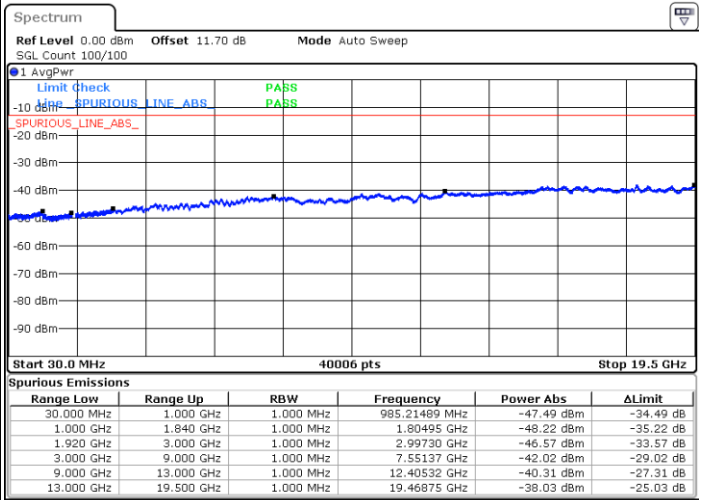
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 28 SEP 2019 01:03:33

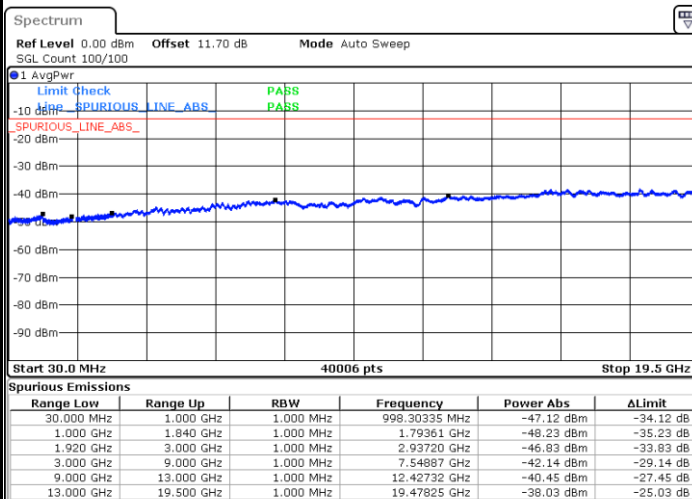
Highest Channel / 16QAM



Date: 28 SEP 2019 01:04:14

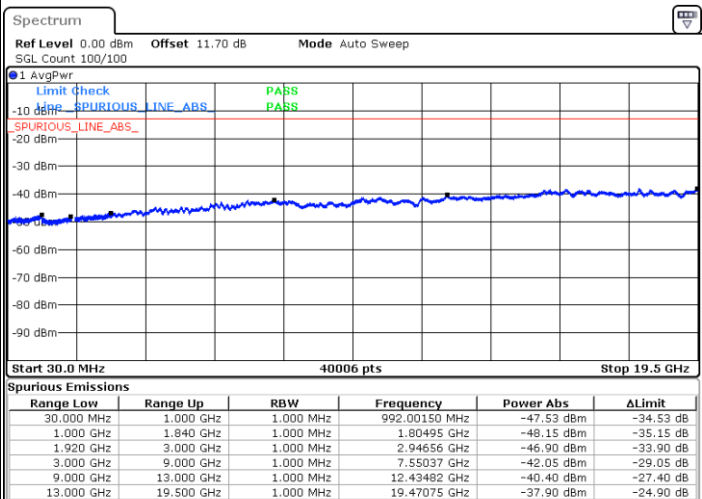
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 27 SEP 2019 16:28:55

Lowest Channel / 16QAM

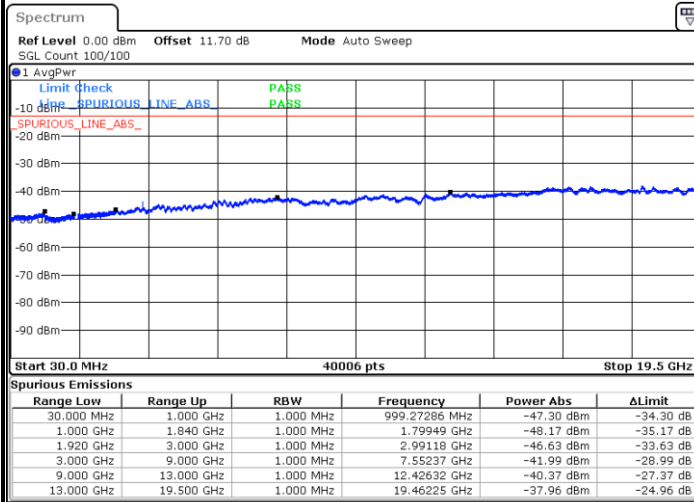


Date: 27 SEP 2019 16:29:36



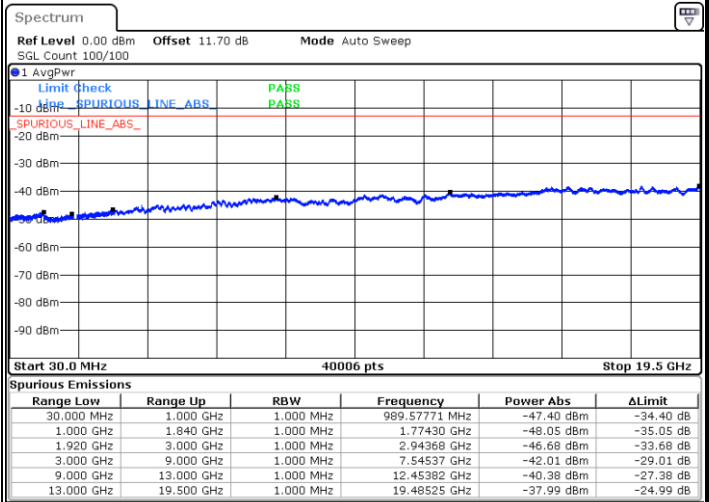
LTE Band 2 / 3MHz

Middle Channel / QPSK



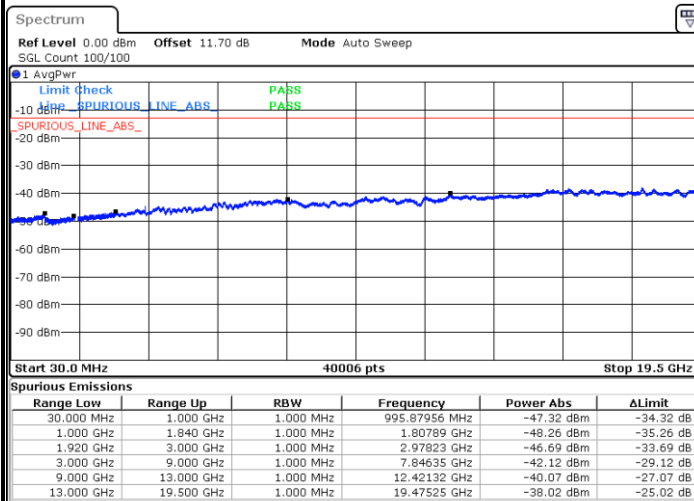
Date: 27.SEP.2019 16:31:03

Middle Channel / 16QAM



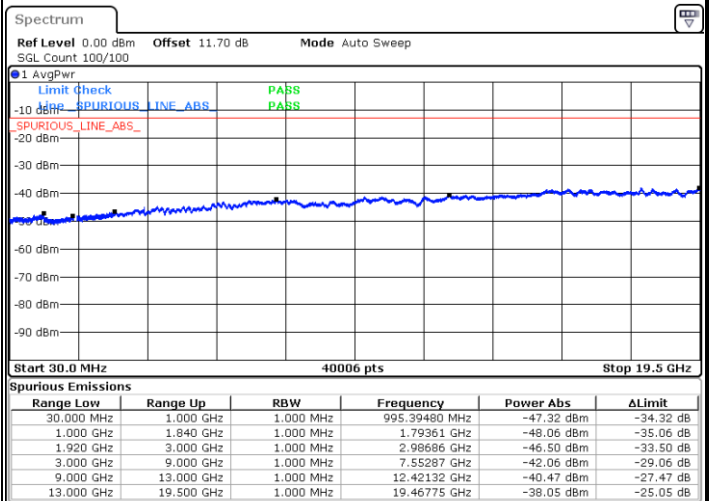
Date: 27.SEP.2019 16:31:43

Highest Channel / QPSK



Date: 27.SEP.2019 16:35:56

Highest Channel / 16QAM

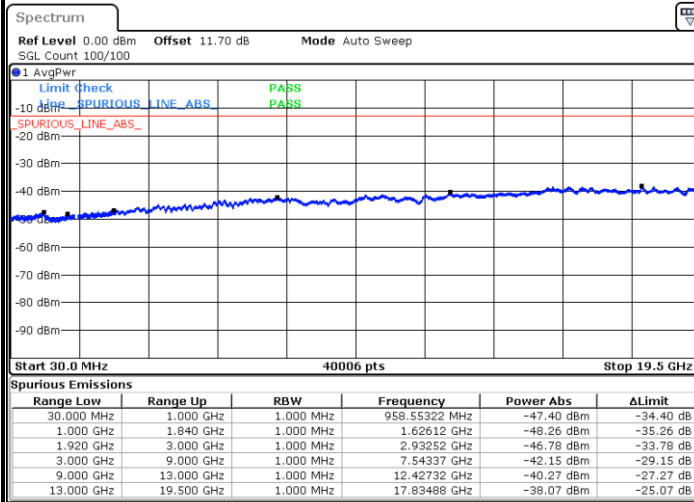


Date: 27.SEP.2019 16:36:37



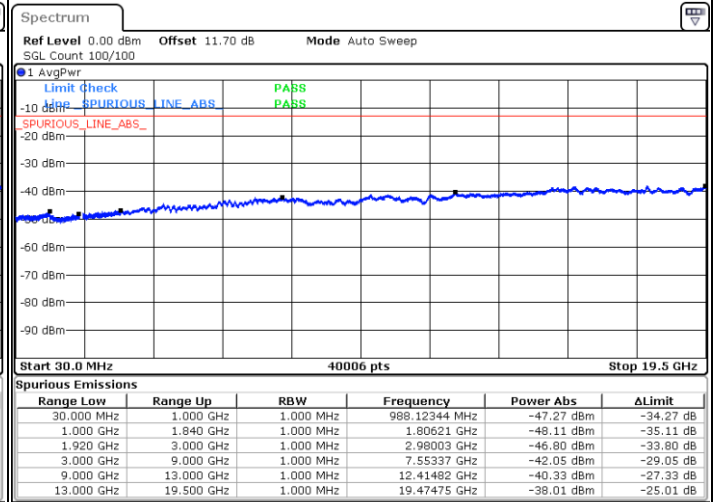
LTE Band 2 / 5MHz

Lowest Channel / QPSK



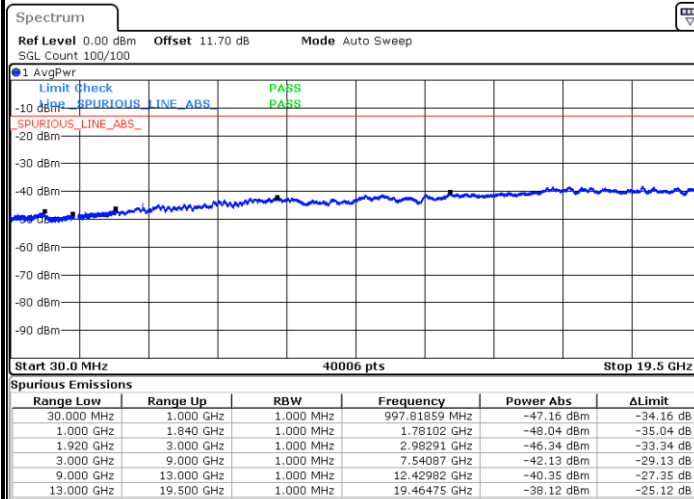
Date: 27.SEP.2019 16:40:50

Lowest Channel / 16QAM



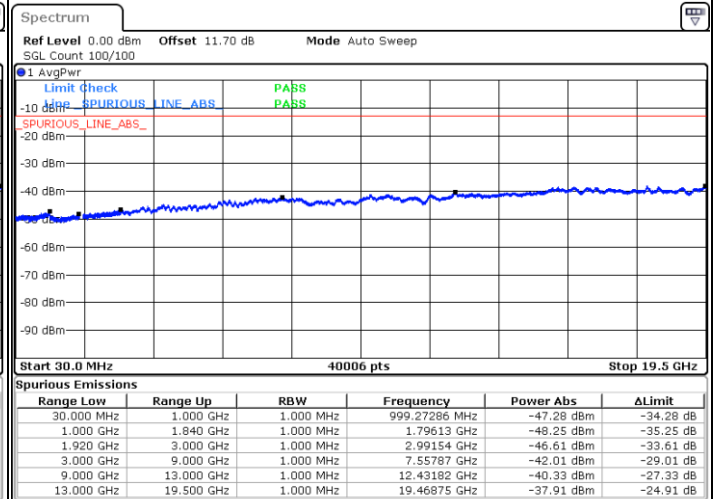
Date: 27.SEP.2019 16:41:31

Middle Channel / QPSK



Date: 27.SEP.2019 16:42:58

Middle Channel / 16QAM

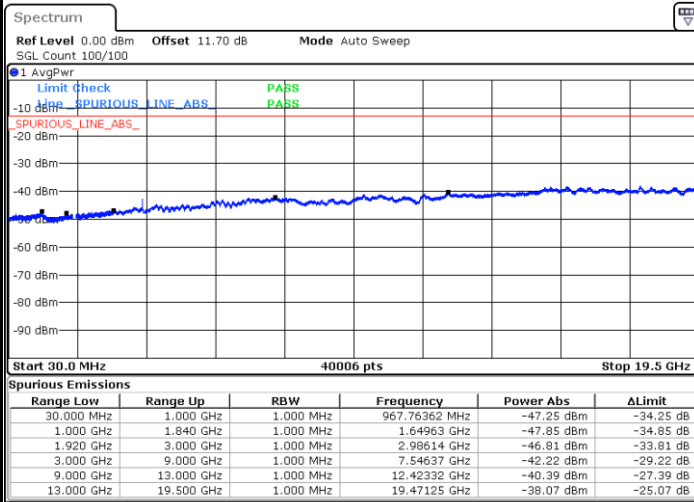


Date: 27.SEP.2019 16:43:38



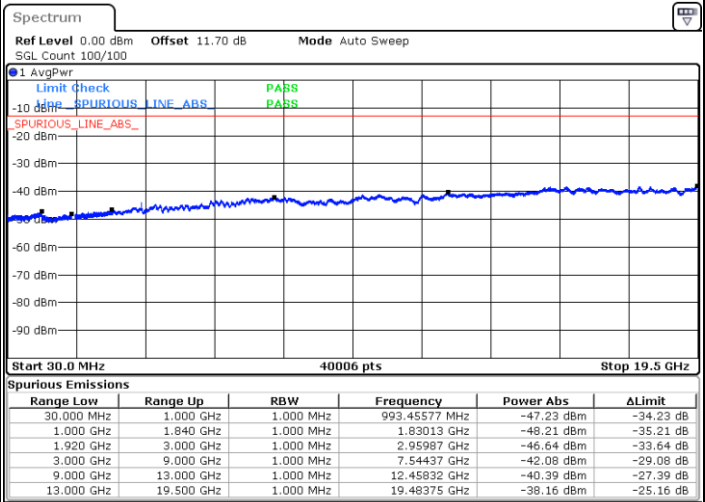
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 27.SEP.2019 16:47:50

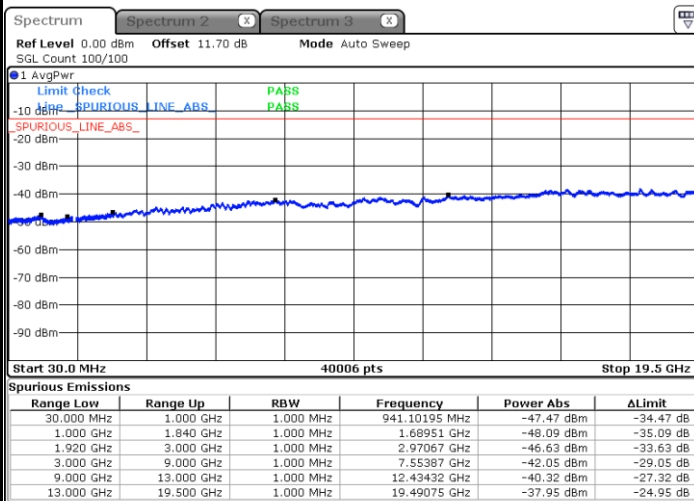
Highest Channel / 16QAM



Date: 27.SEP.2019 16:48:32

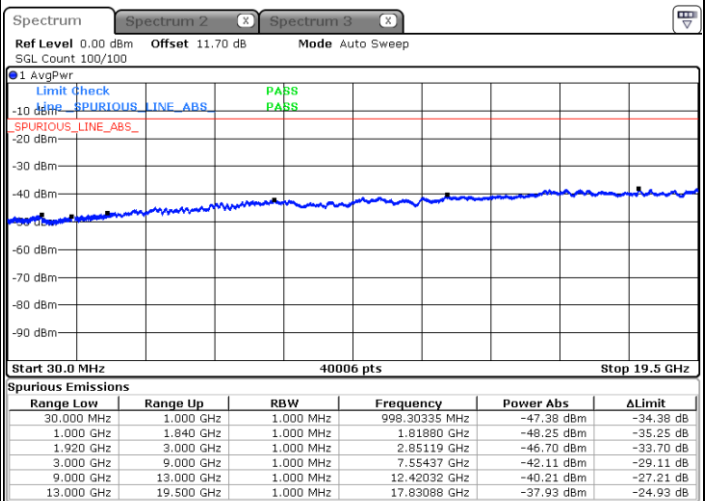
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 28.SEP.2019 01:09:00

Lowest Channel / 16QAM

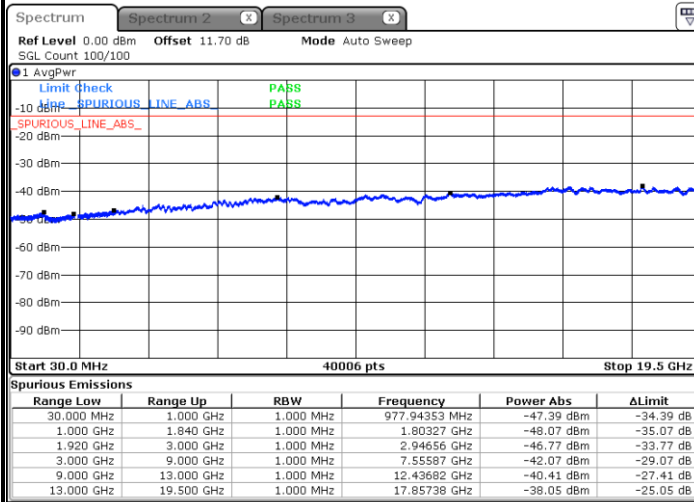


Date: 28.SEP.2019 01:09:41



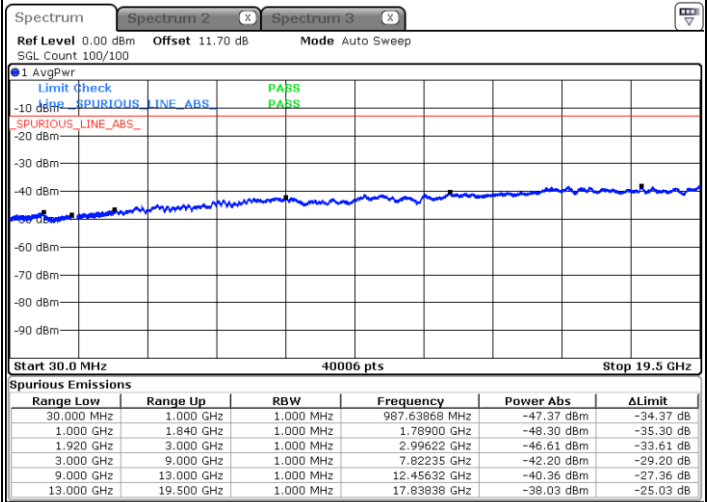
LTE Band 2 / 10MHz

Middle Channel / QPSK



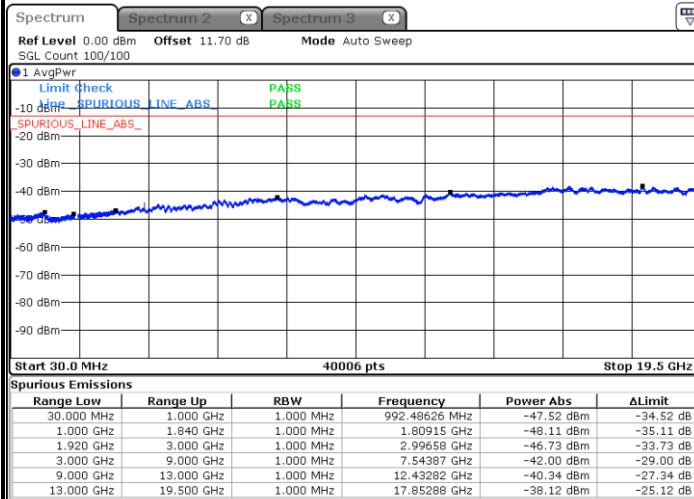
Date: 28 SEP 2019 01:10:45

Middle Channel / 16QAM



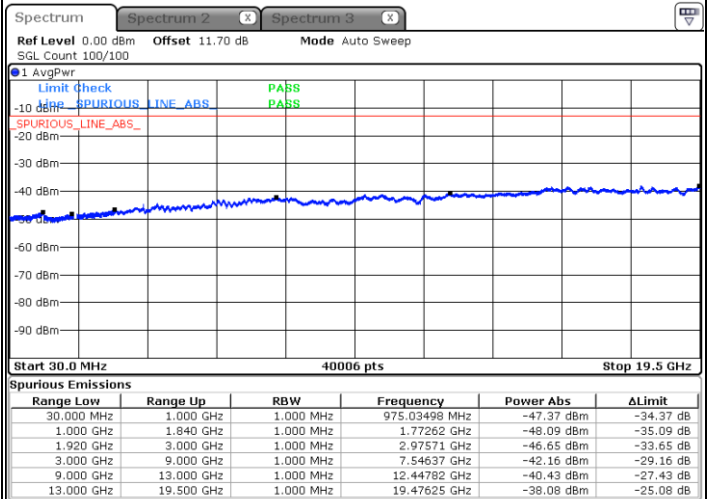
Date: 28 SEP 2019 01:11:25

Highest Channel / QPSK



Date: 28 SEP 2019 01:15:32

Highest Channel / 16QAM



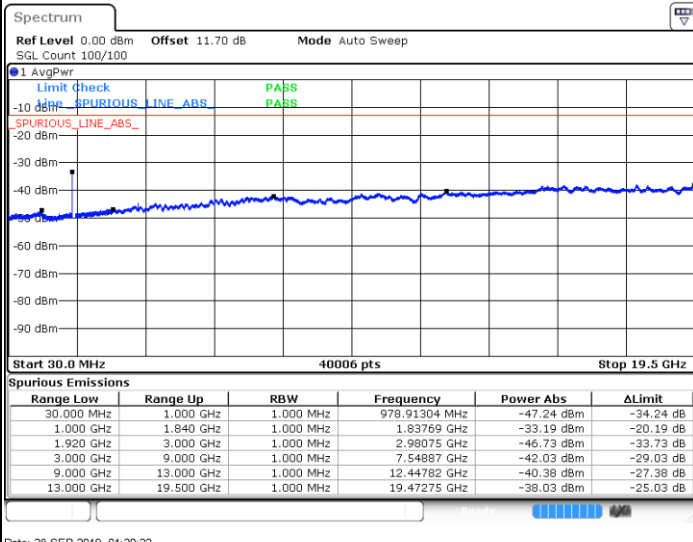
Date: 28 SEP 2019 01:16:13



LTE Band 2 / 15MHz

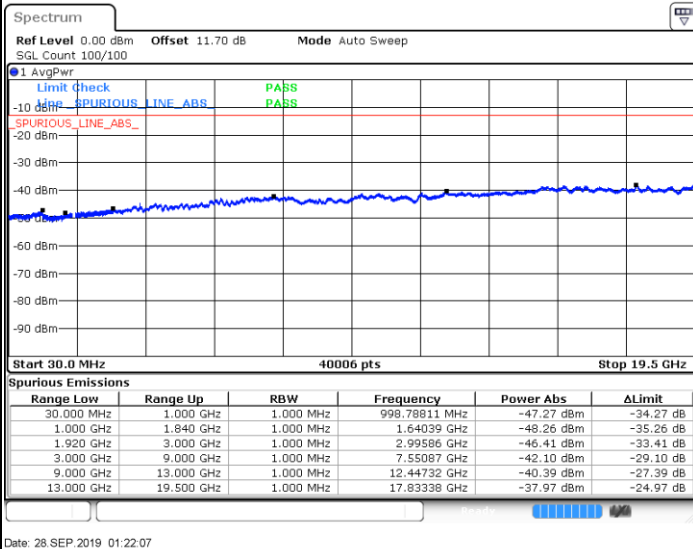
Lowest Channel / QPSK

Lowest Channel / 16QAM



Middle Channel / QPSK

Middle Channel / 16QAM

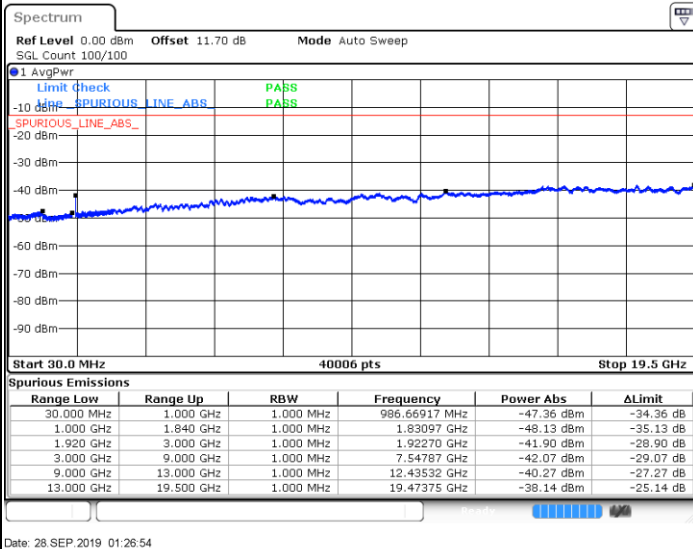




LTE Band 2 / 15MHz

Highest Channel / QPSK

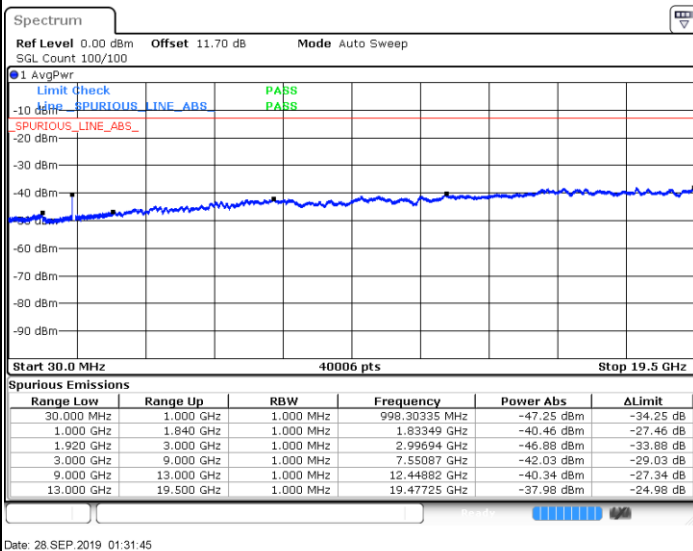
Highest Channel / 16QAM



LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

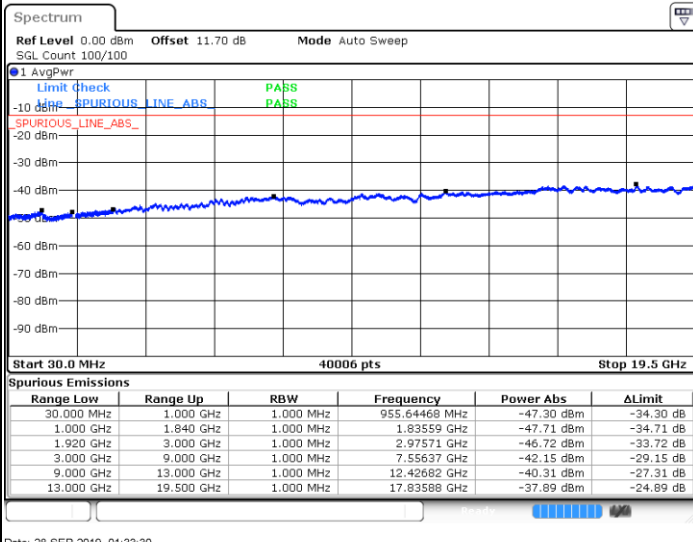




LTE Band 2 / 20MHz

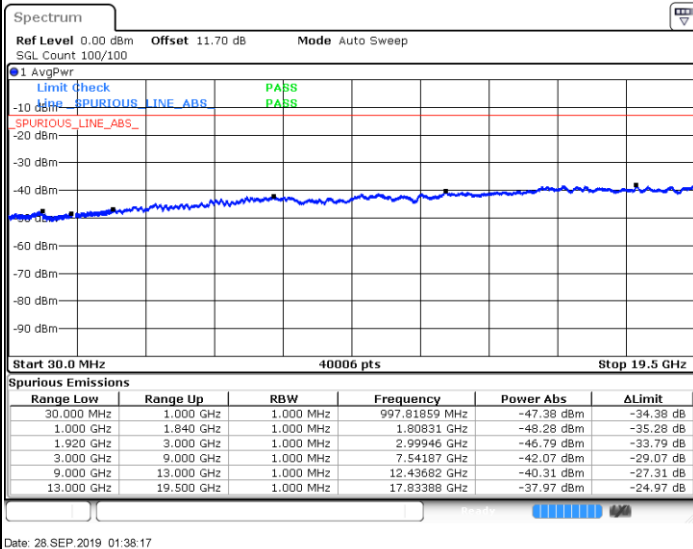
Middle Channel / QPSK

Middle Channel / 16QAM



Highest Channel / QPSK

Highest Channel / 16QAM



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	0.0010	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

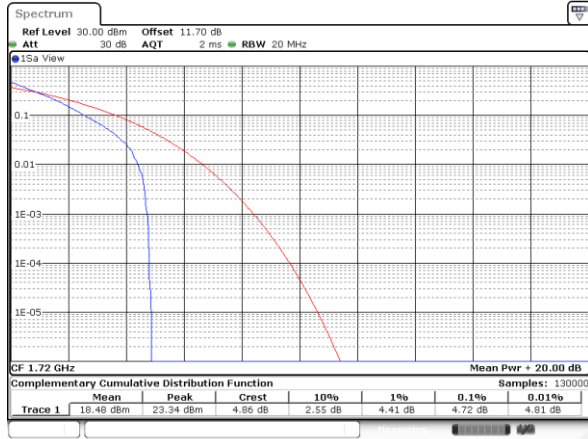
1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



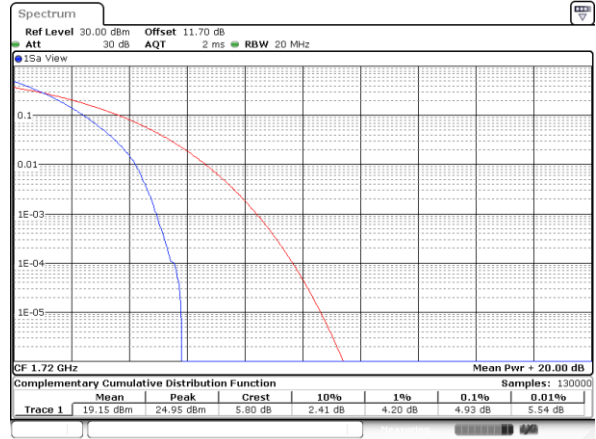
LTE Band 4

Peak-to-Average Ratio

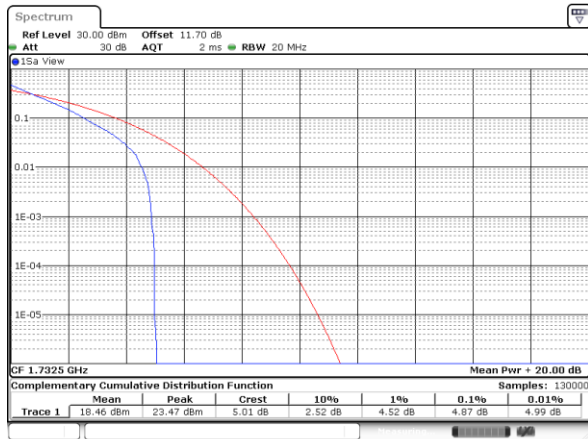
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.72	4.93	-	-	PASS
Middle CH	4.87	4.84	-	-	
Highest CH	4.72	4.84	-	-	

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


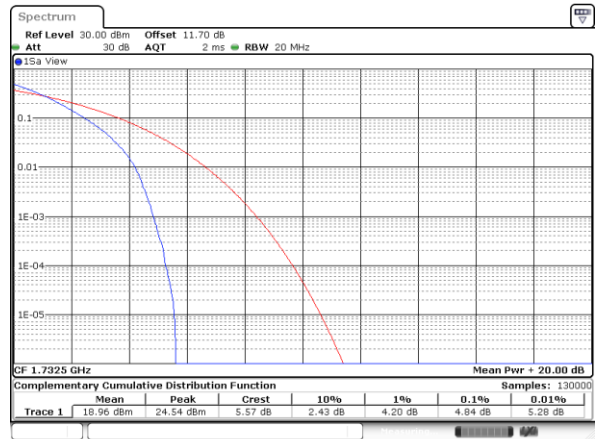
Date: 1.OCT.2019 11:55:13

Lowest Channel / Full RB


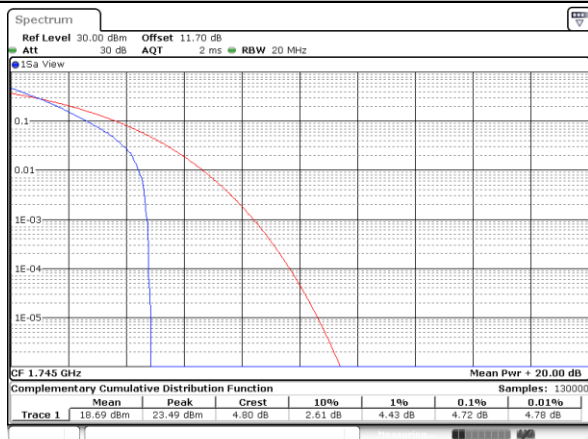
Date: 1.OCT.2019 11:55:27

Middle Channel / 1RB


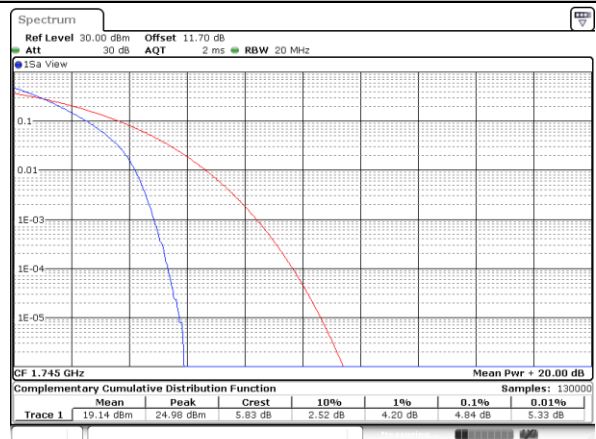
Date: 1.OCT.2019 11:55:46

Middle Channel / Full RB


Date: 1.OCT.2019 11:55:58

Highest Channel / 1RB


Date: 1.OCT.2019 11:56:10

Highest Channel / Full RB


Date: 1.OCT.2019 11:56:24



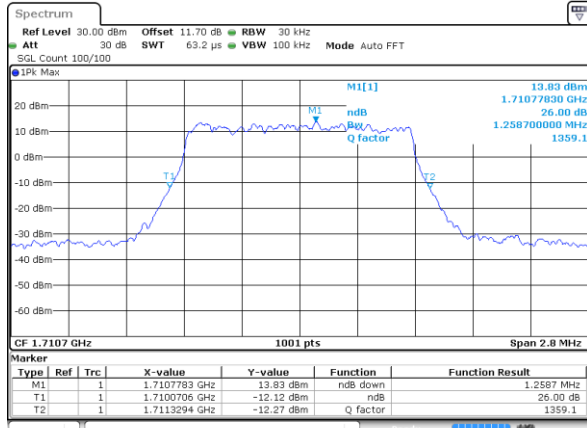
26dB Bandwidth

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	1.26	1.25	3.00	3.02	4.99	4.86	9.85	-	14.39	-	19.22	-
Middle CH	1.26	1.29	2.97	3.00	4.94	4.81	9.97	-	14.57	-	18.94	-
Highest CH	1.26	1.27	3.03	3.03	4.82	4.92	9.81	-	14.66	-	18.86	-



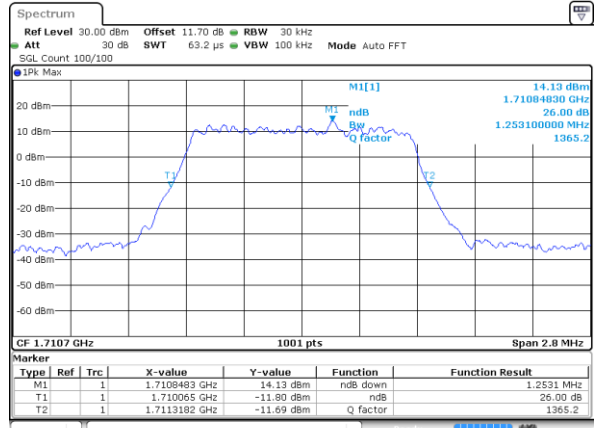
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



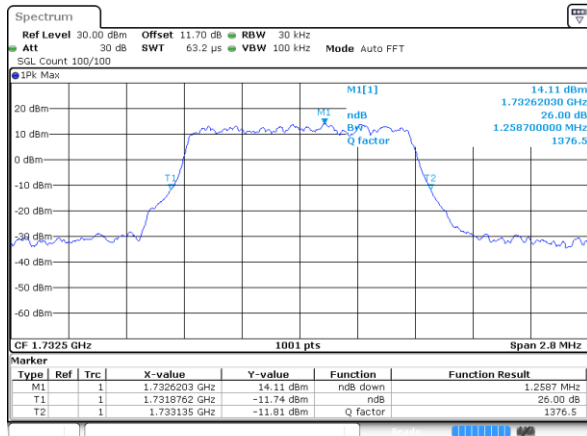
Date: 1.OCT.2019 15:55:29

Lowest Channel / 1.4MHz / 16QAM



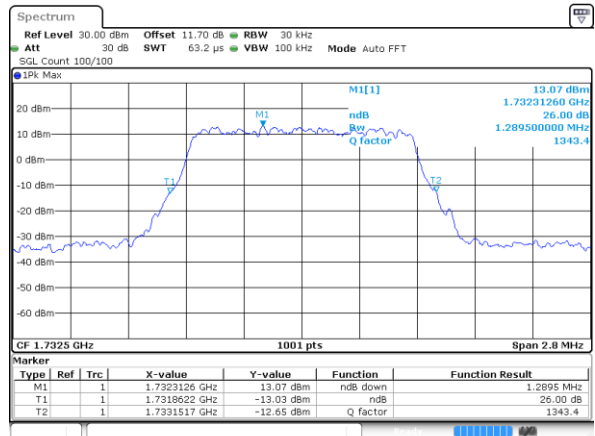
Date: 1.OCT.2019 15:55:41

Middle Channel / 1.4MHz / QPSK



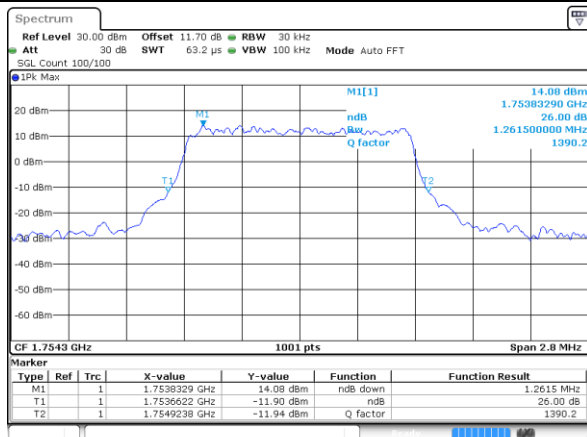
Date: 1.OCT.2019 16:01:54

Middle Channel / 1.4MHz / 16QAM



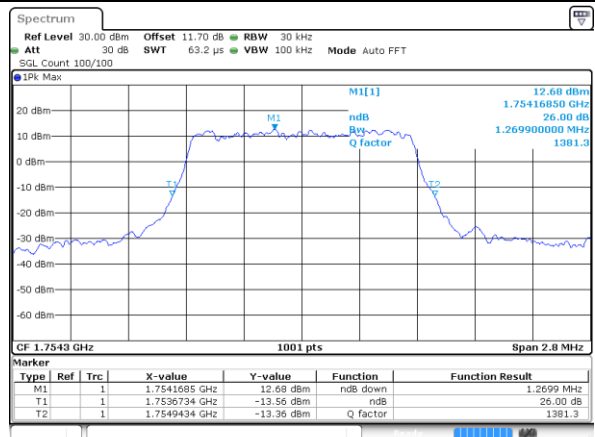
Date: 1.OCT.2019 16:02:06

Highest Channel / 1.4MHz / QPSK



Date: 1.OCT.2019 16:04:03

Highest Channel / 1.4MHz / 16QAM

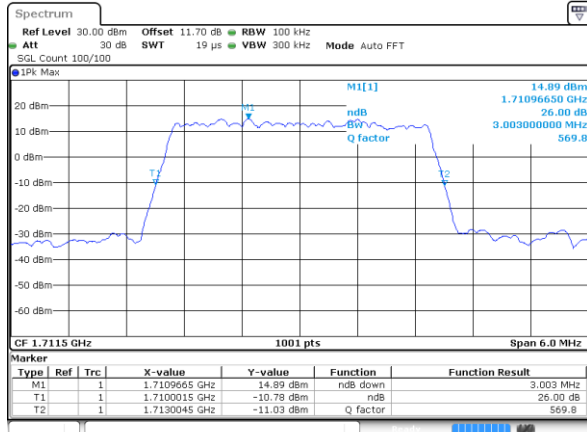


Date: 1.OCT.2019 16:04:15



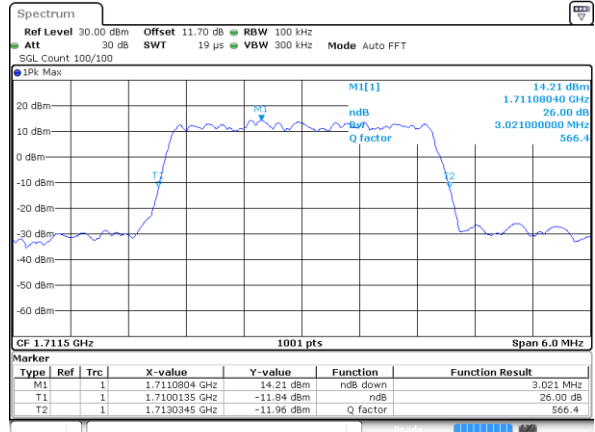
LTE Band 4

Lowest Channel / 3MHz / QPSK



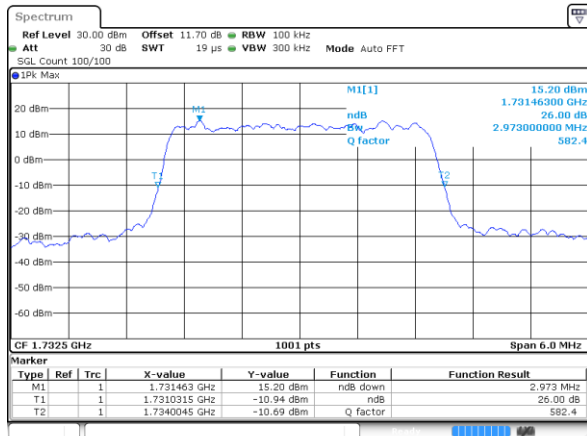
Date: 1.OCT.2019 09:57:41

Lowest Channel / 3MHz / 16QAM



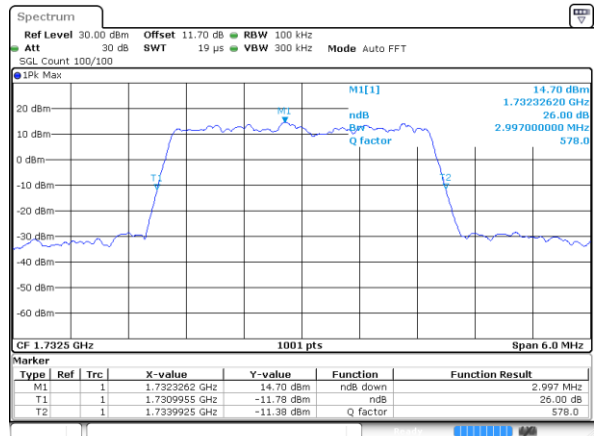
Date: 1.OCT.2019 09:57:53

Middle Channel / 3MHz / QPSK



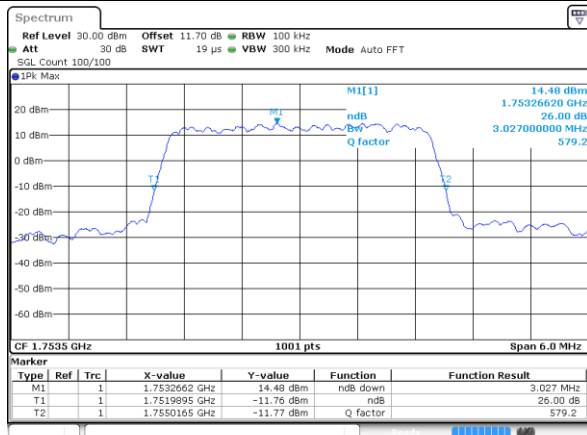
Date: 1.OCT.2019 10:03:55

Middle Channel / 3MHz / 16QAM



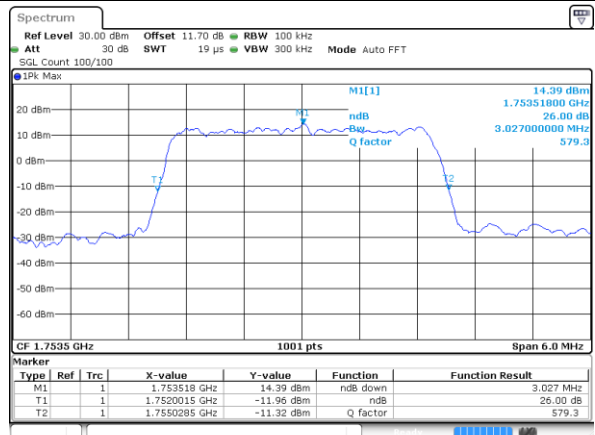
Date: 1.OCT.2019 10:04:06

Highest Channel / 3MHz / QPSK



Date: 1.OCT.2019 10:06:04

Highest Channel / 3MHz / 16QAM

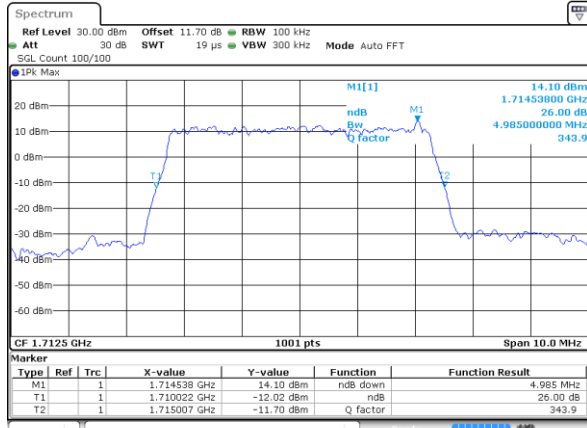


Date: 1.OCT.2019 10:06:16



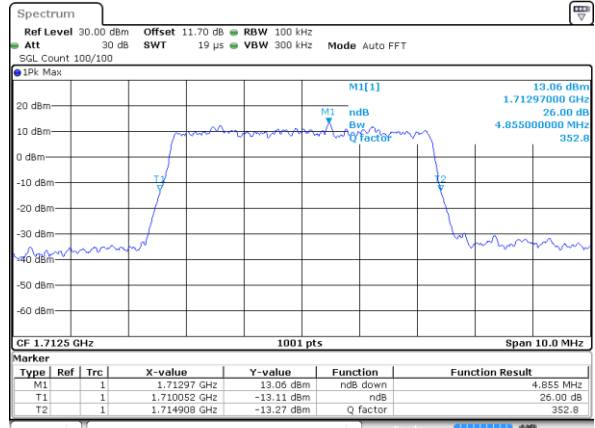
LTE Band 4

Lowest Channel / 5MHz / QPSK



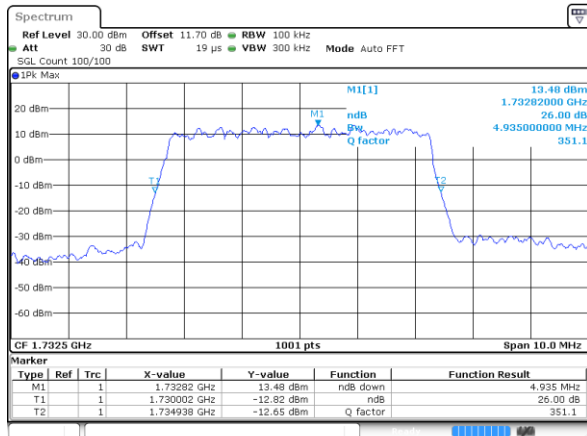
Date: 1.OCT.2019 10:12:19

Lowest Channel / 5MHz / 16QAM



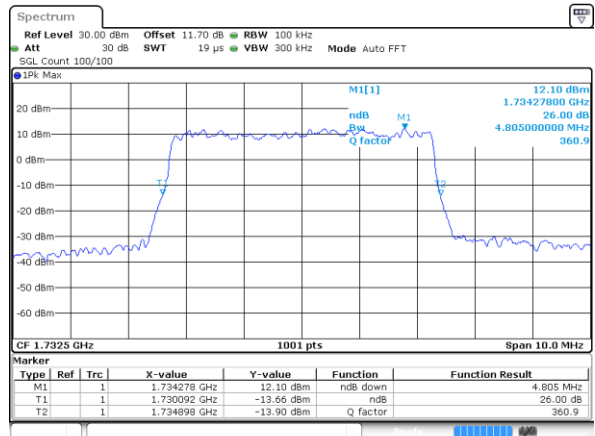
Date: 1.OCT.2019 10:12:31

Middle Channel / 5MHz / QPSK



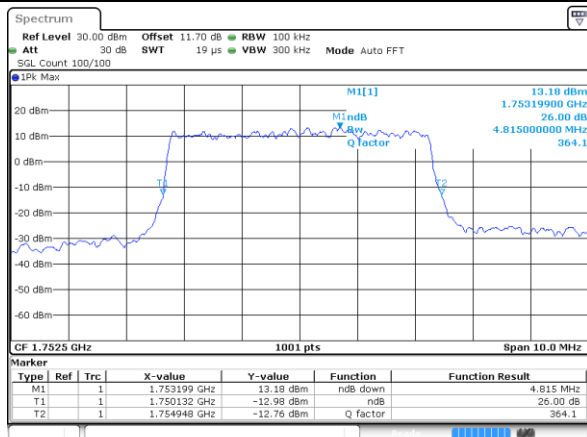
Date: 1.OCT.2019 10:18:32

Middle Channel / 5MHz / 16QAM



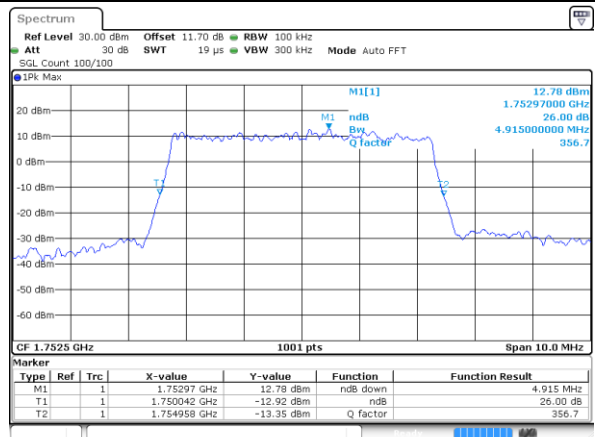
Date: 1.OCT.2019 10:18:44

Highest Channel / 5MHz / QPSK



Date: 1.OCT.2019 10:20:42

Highest Channel / 5MHz / 16QAM

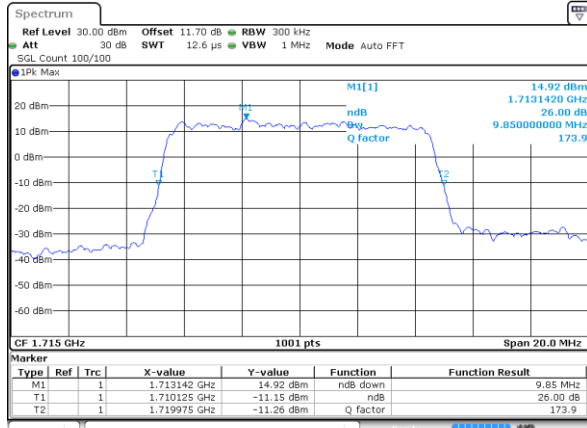


Date: 1.OCT.2019 10:20:54



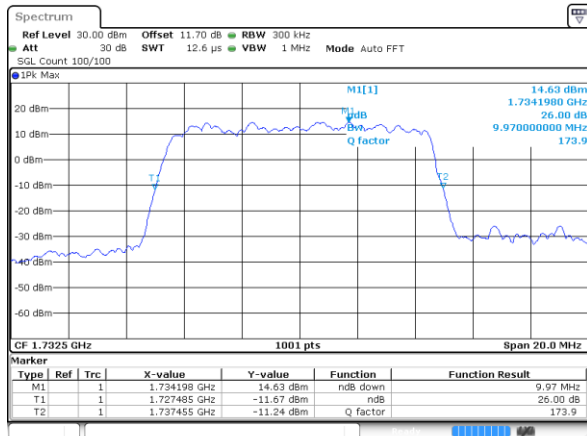
LTE Band 4

Lowest Channel / 10MHz / QPSK



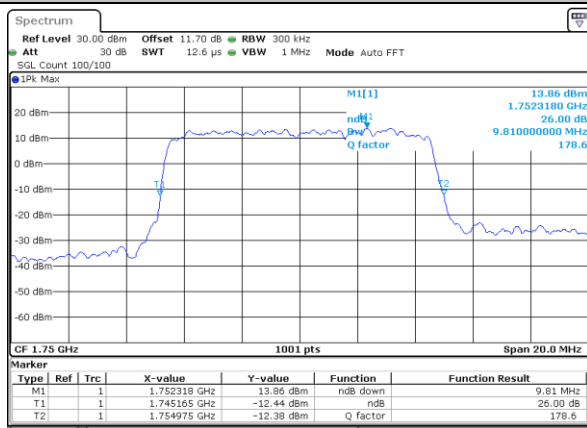
Lowest Channel / 10MHz / 16QAM

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

Highest Channel / 10MHz / QPSK

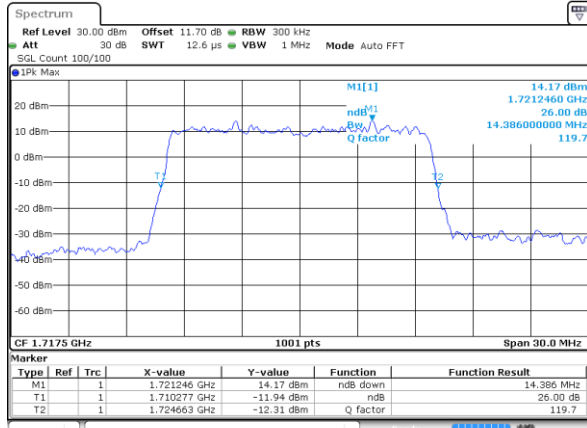


Highest Channel / 10MHz / 16QAM



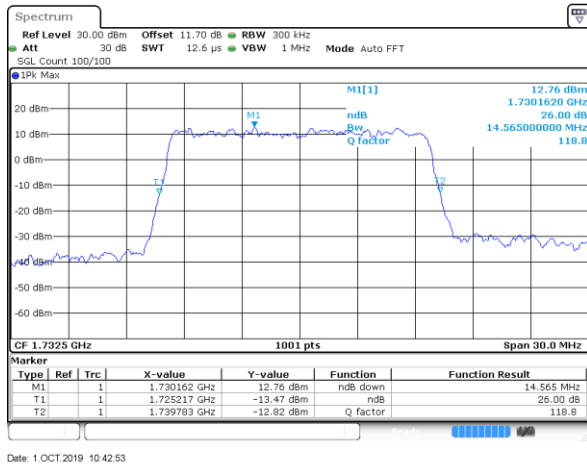
LTE Band 4

Lowest Channel / 15MHz / QPSK



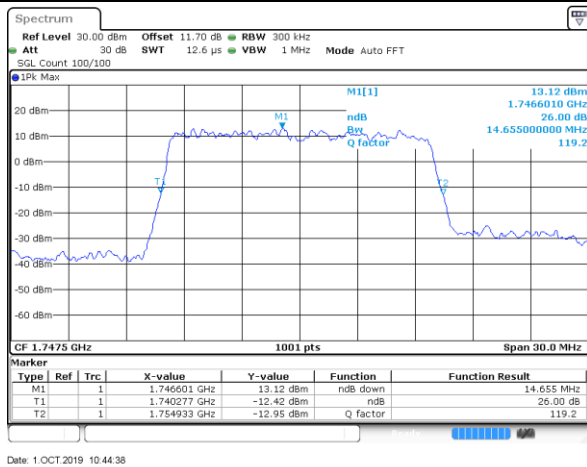
Lowest Channel / 15MHz / 16QAM

Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

Highest Channel / 15MHz / QPSK

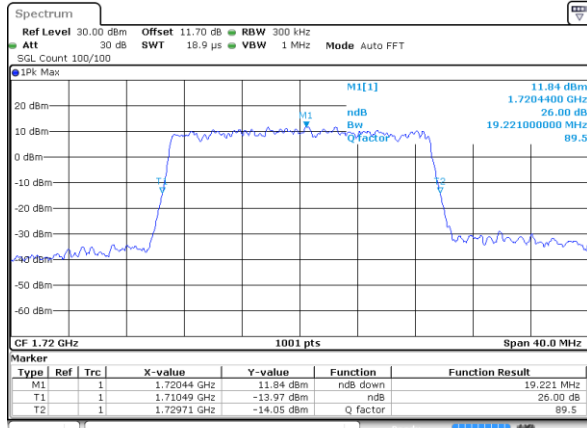


Highest Channel / 15MHz / 16QAM



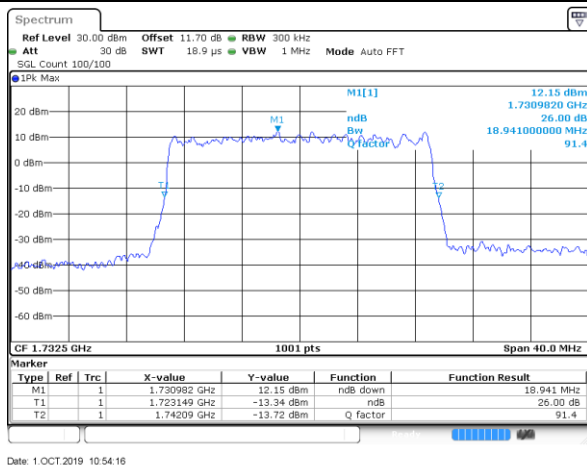
LTE Band 4

Lowest Channel / 20MHz / QPSK



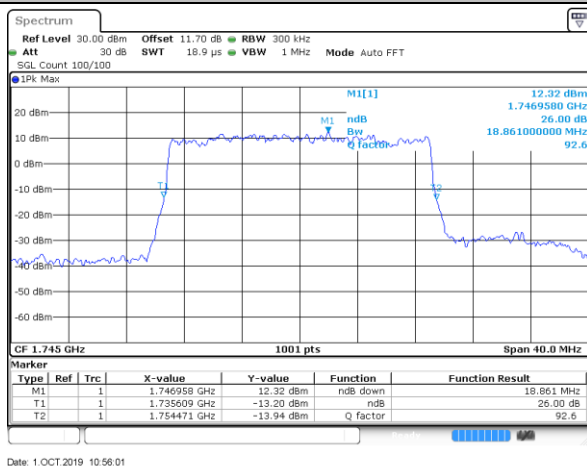
Lowest Channel / 20MHz / 16QAM

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

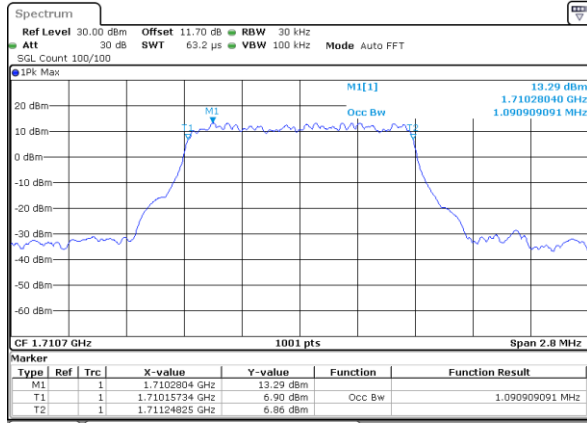
**Occupied Bandwidth**

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	1.09	2.72	2.70	4.51	4.50	9.01	-	13.37	-	17.90	-
Middle CH	1.09	1.10	2.72	2.72	4.50	4.50	9.03	-	13.49	-	17.78	-
Highest CH	1.10	1.09	2.70	2.75	4.50	4.51	8.99	-	13.40	-	17.82	-

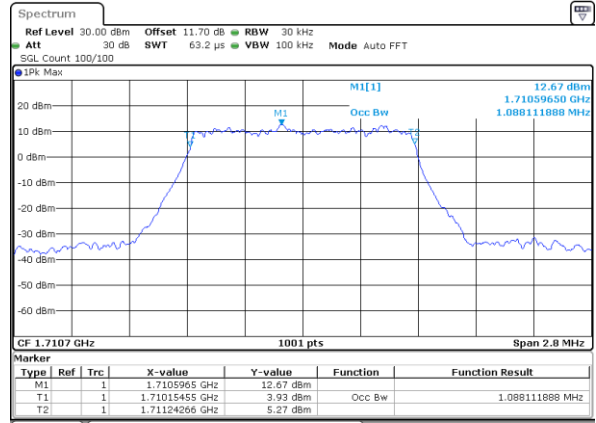


LTE Band 4

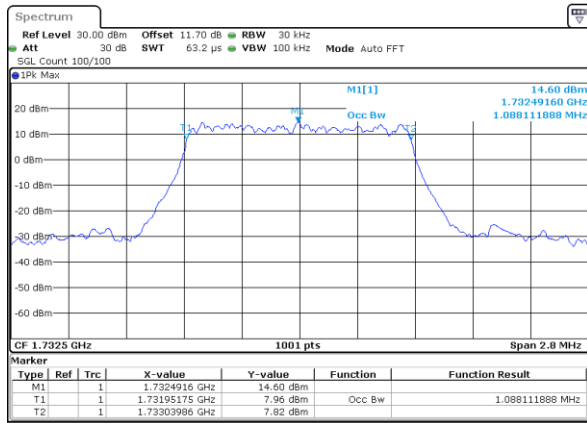
Lowest Channel / 1.4MHz / QPSK



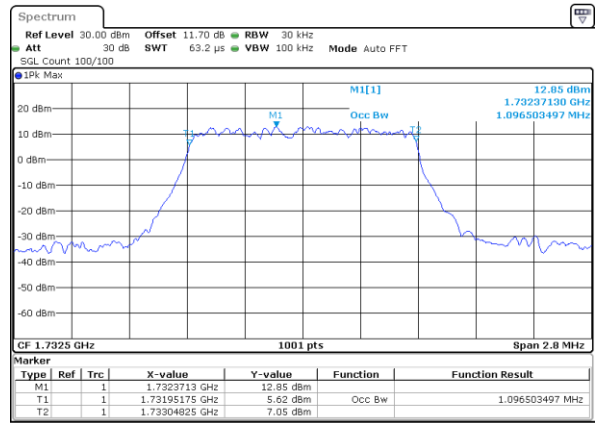
Lowest Channel / 1.4MHz / 16QAM



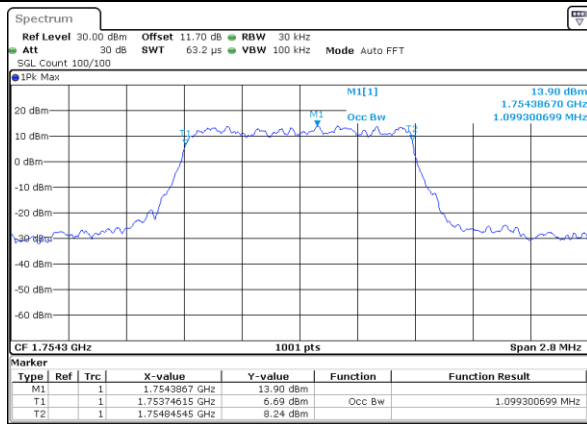
Middle Channel / 1.4MHz / QPSK



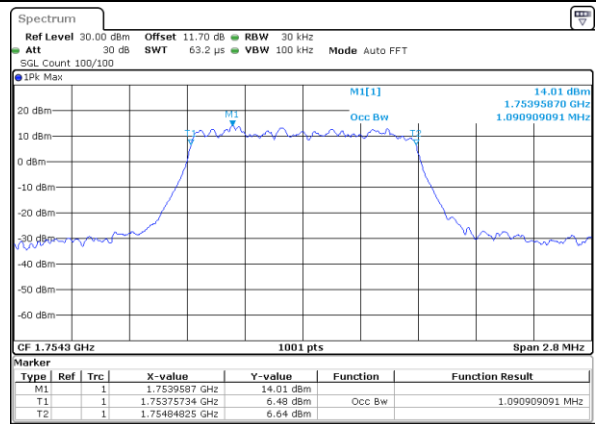
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



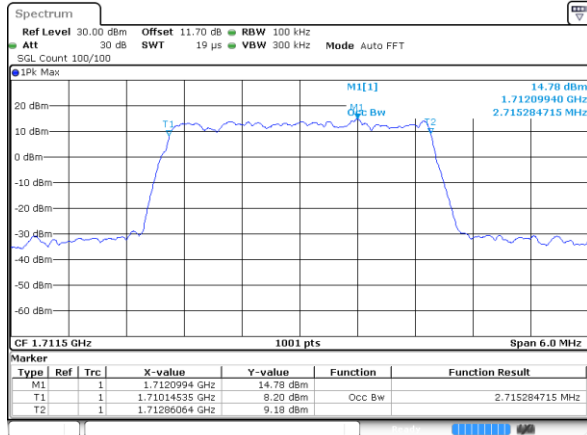
Highest Channel / 1.4MHz / 16QAM





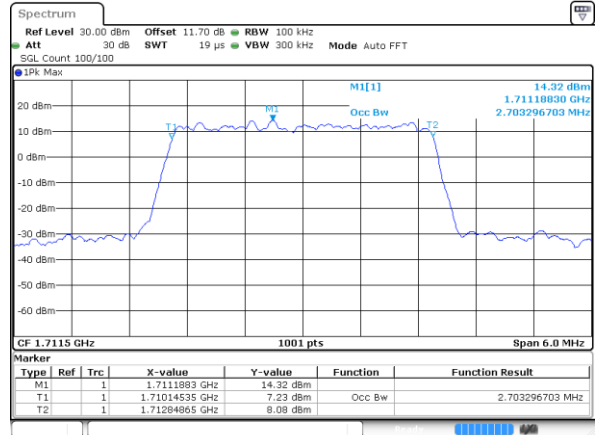
LTE Band 4

Lowest Channel / 3MHz / QPSK



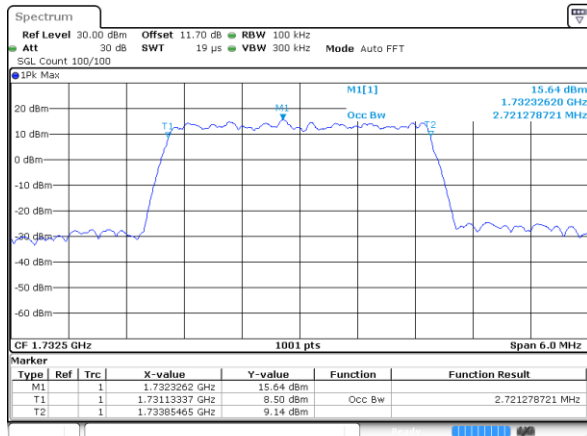
Date: 1.OCT.2019 09:57:17

Lowest Channel / 3MHz / 16QAM



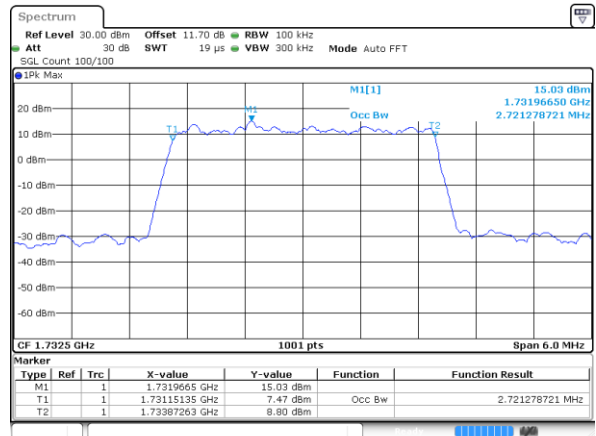
Date: 1.OCT.2019 09:57:29

Middle Channel / 3MHz / QPSK



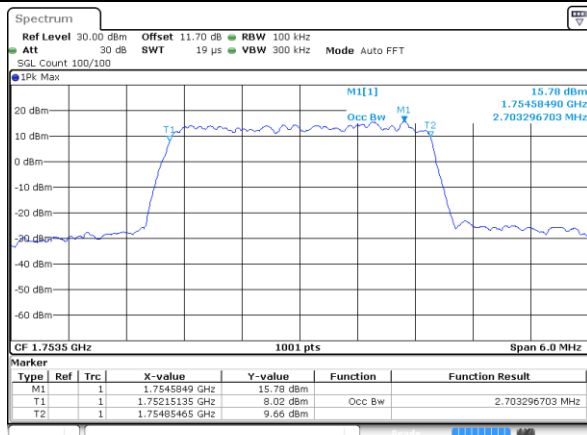
Date: 1.OCT.2019 10:03:31

Middle Channel / 3MHz / 16QAM



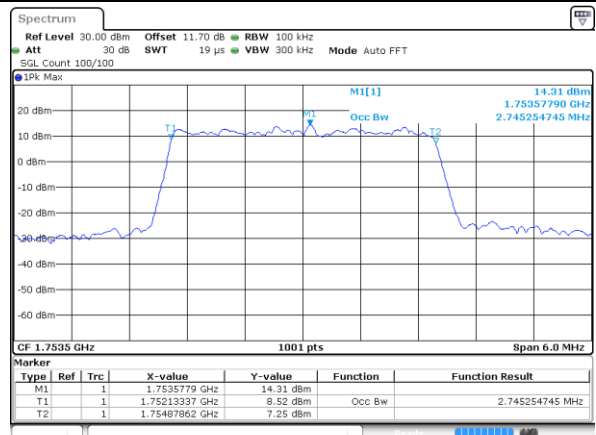
Date: 1.OCT.2019 10:03:43

Highest Channel / 3MHz / QPSK



Date: 1.OCT.2019 10:05:39

Highest Channel / 3MHz / 16QAM

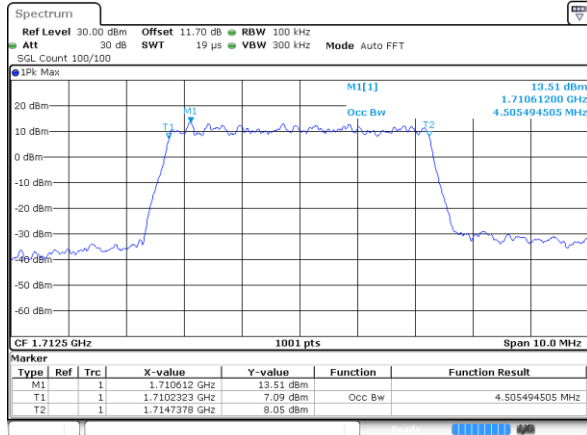


Date: 1.OCT.2019 10:05:52



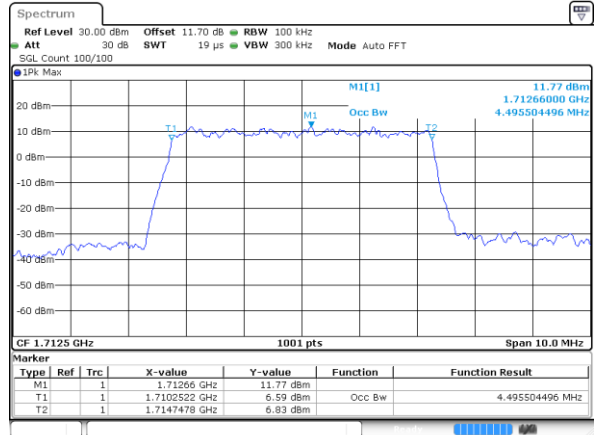
LTE Band 4

Lowest Channel / 5MHz / QPSK



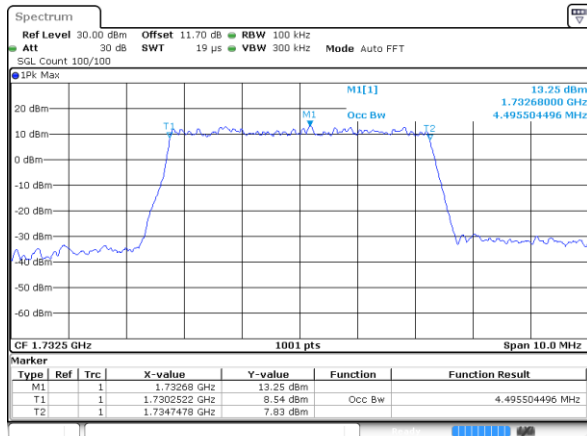
Date: 1.OCT.2019 10:11:54

Lowest Channel / 5MHz / 16QAM



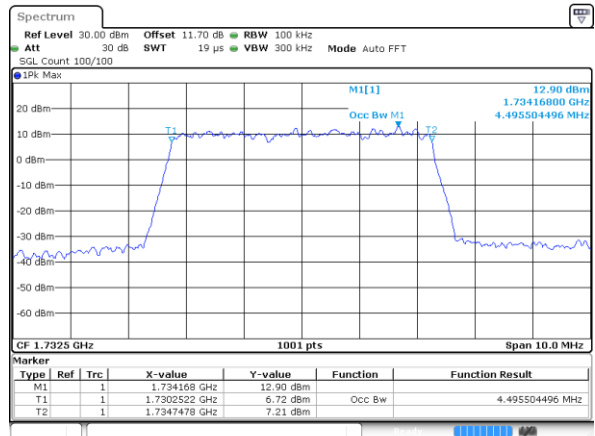
Date: 1.OCT.2019 10:12:06

Middle Channel / 5MHz / QPSK



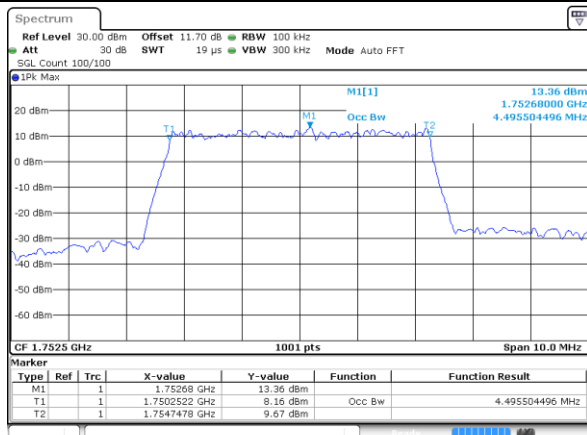
Date: 1.OCT.2019 10:18:09

Middle Channel / 5MHz / 16QAM



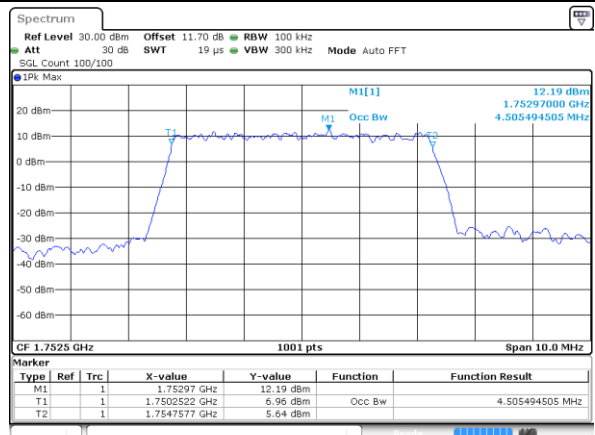
Date: 1.OCT.2019 10:18:21

Highest Channel / 5MHz / QPSK



Date: 1.OCT.2019 10:20:17

Highest Channel / 5MHz / 16QAM

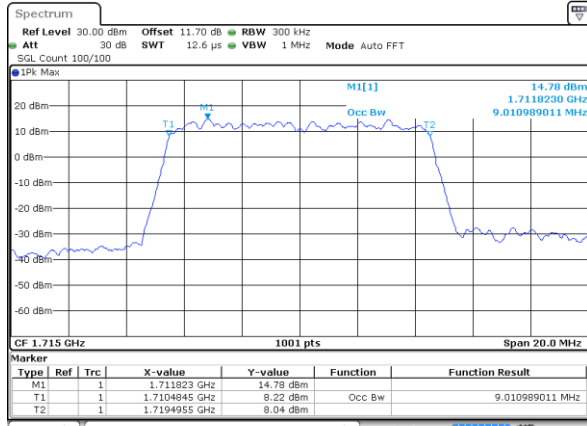


Date: 1.OCT.2019 10:20:29



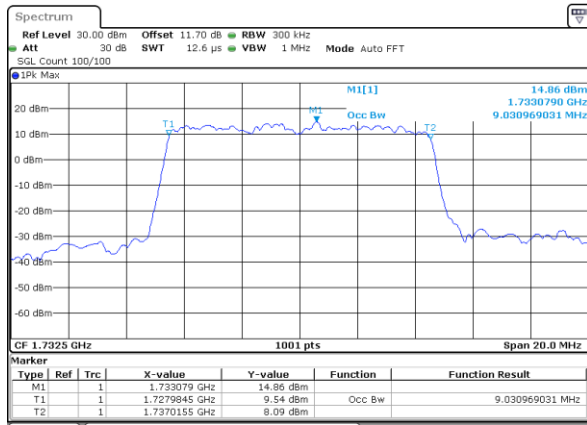
LTE Band 4

Lowest Channel / 10MHz / QPSK



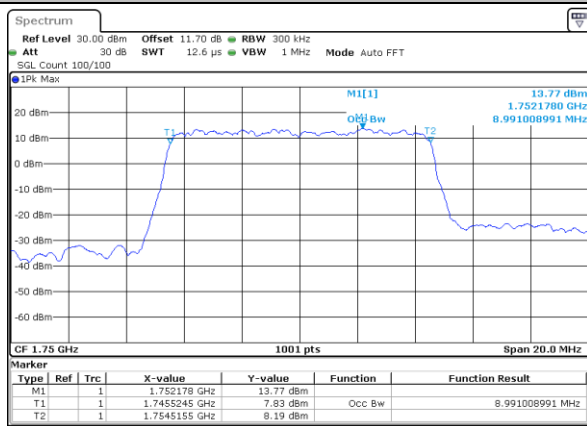
Lowest Channel / 10MHz / 16QAM

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

Highest Channel / 10MHz / QPSK

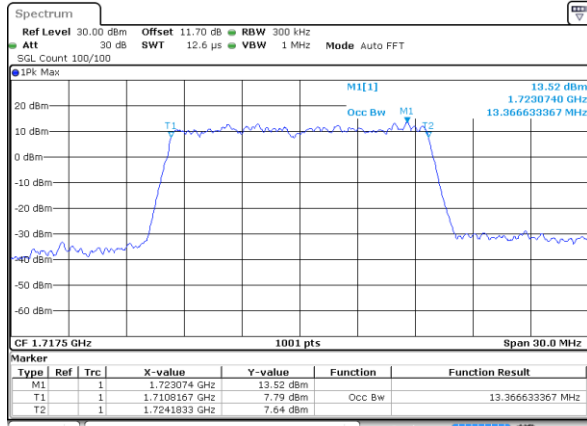


Highest Channel / 10MHz / 16QAM



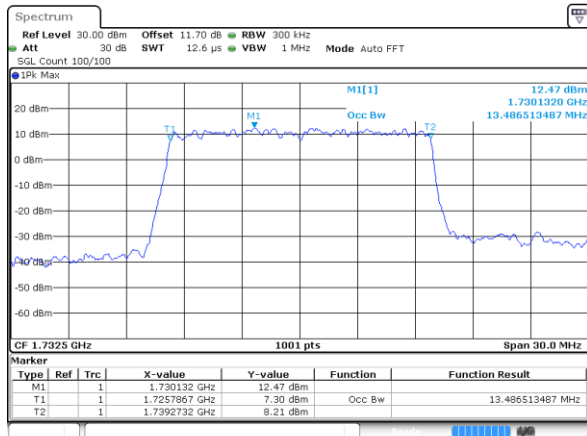
LTE Band 4

Lowest Channel / 15MHz / QPSK



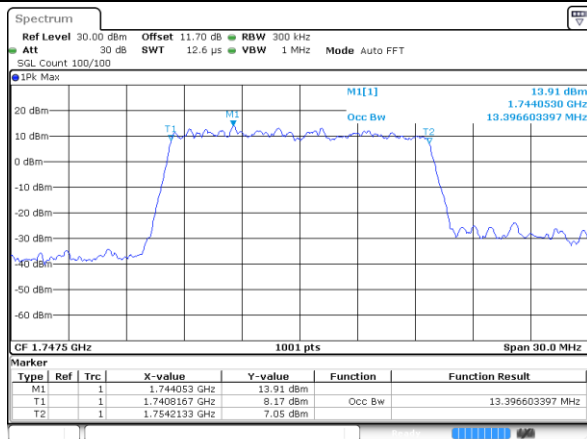
Lowest Channel / 15MHz / 16QAM

Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

Highest Channel / 15MHz / QPSK

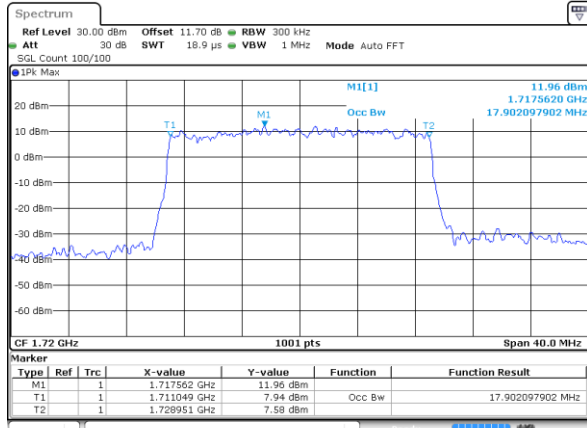


Highest Channel / 15MHz / 16QAM



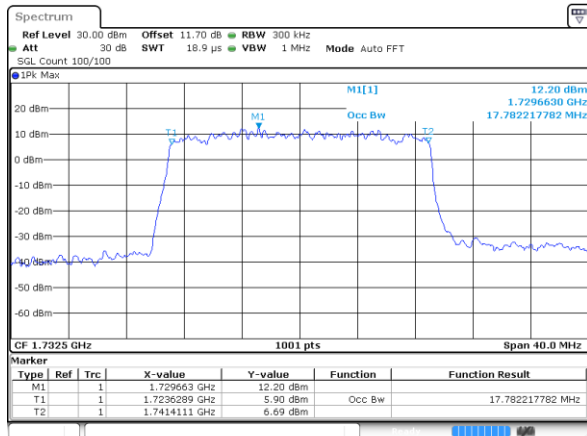
LTE Band 4

Lowest Channel / 20MHz / QPSK



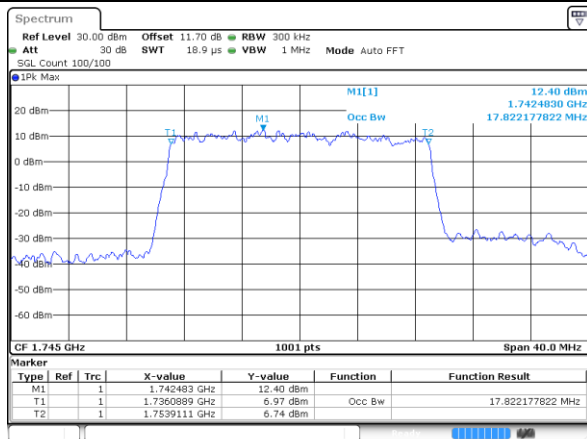
Lowest Channel / 20MHz / 16QAM

Middle Channel / 20MHz / QPSK

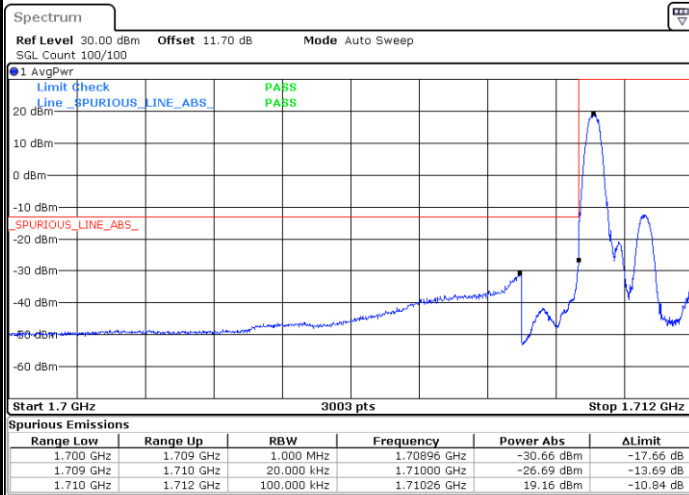
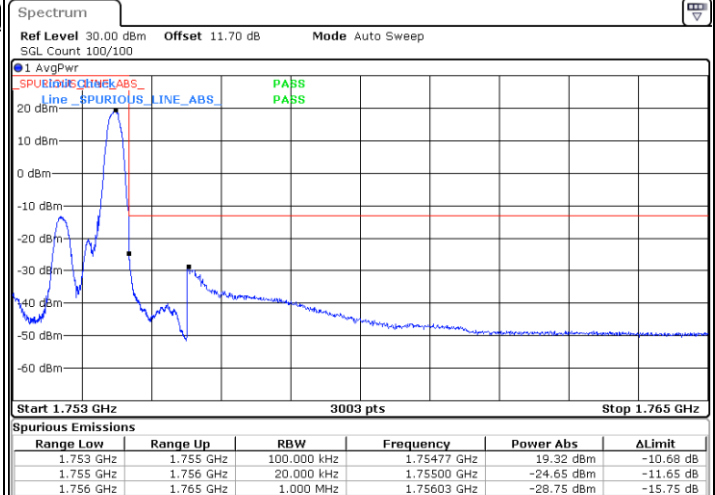
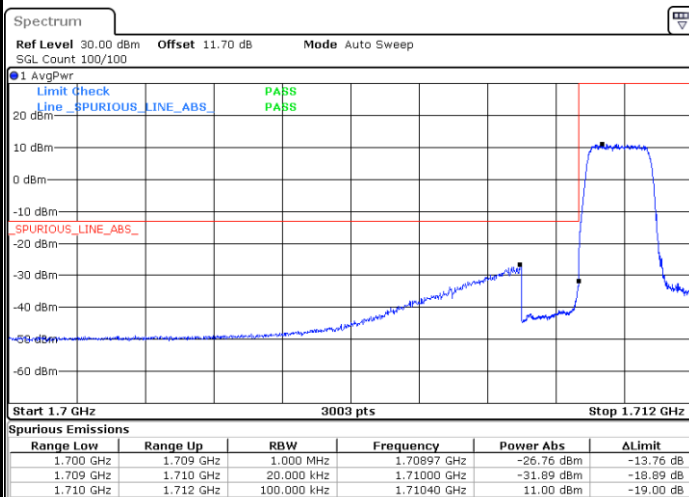
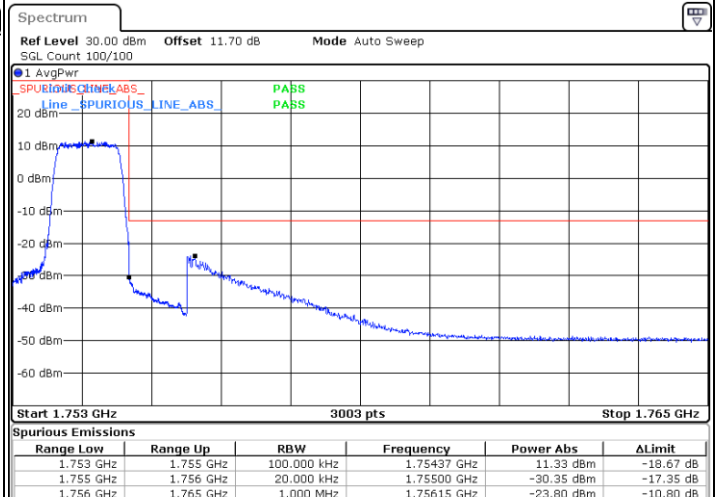


Middle Channel / 20MHz / 16QAM

Highest Channel / 20MHz / QPSK



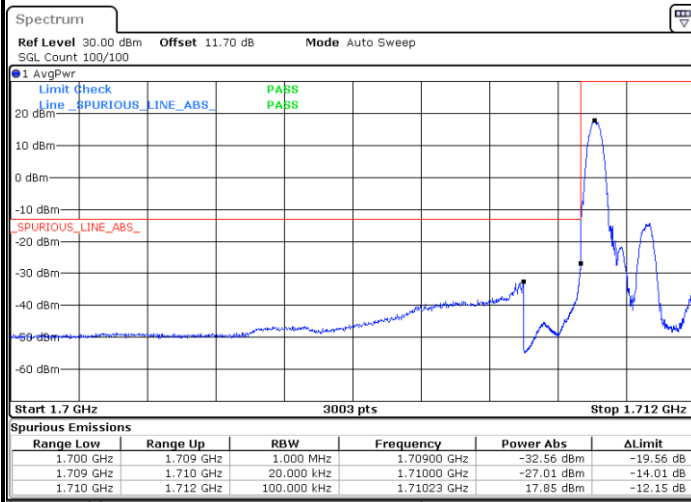
Highest Channel / 20MHz / 16QAM

**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**

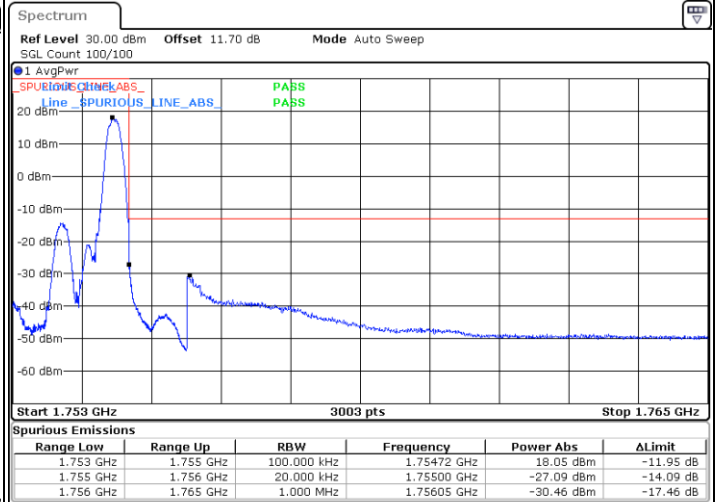


LTE Band 4 / 1.4MHz / 16QAM

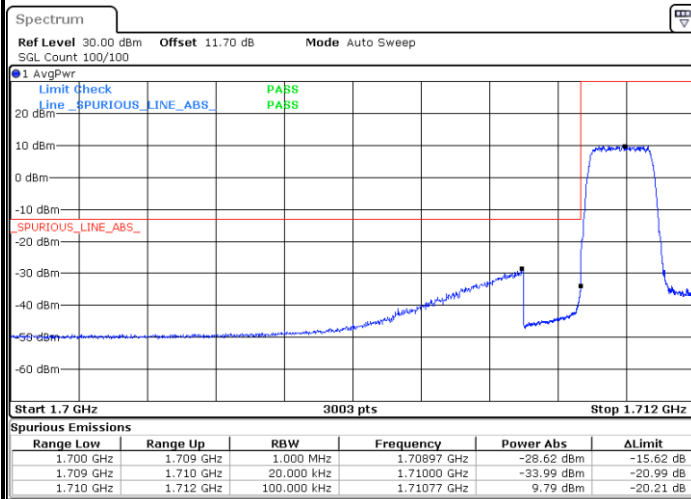
Lowest Band Edge / 1 RB



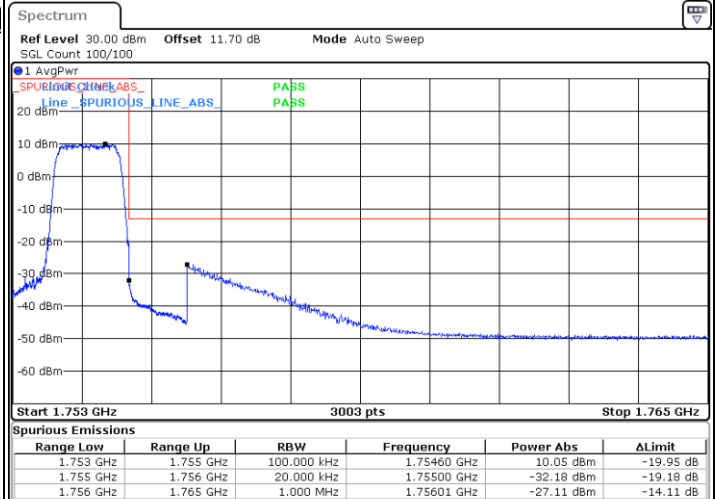
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



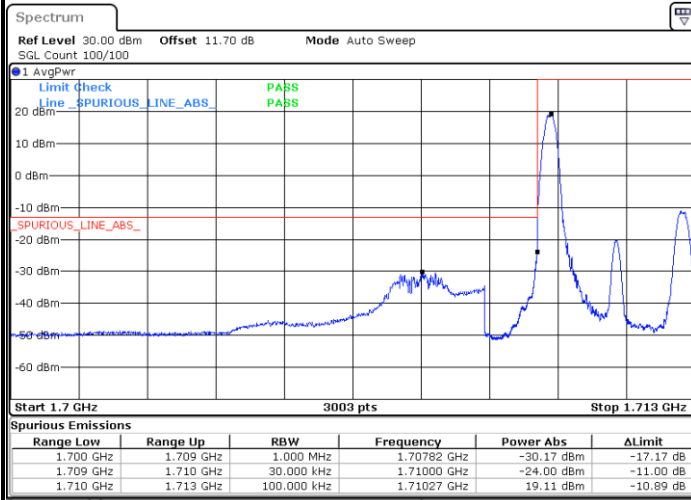
Highest Band Edge / Full RB



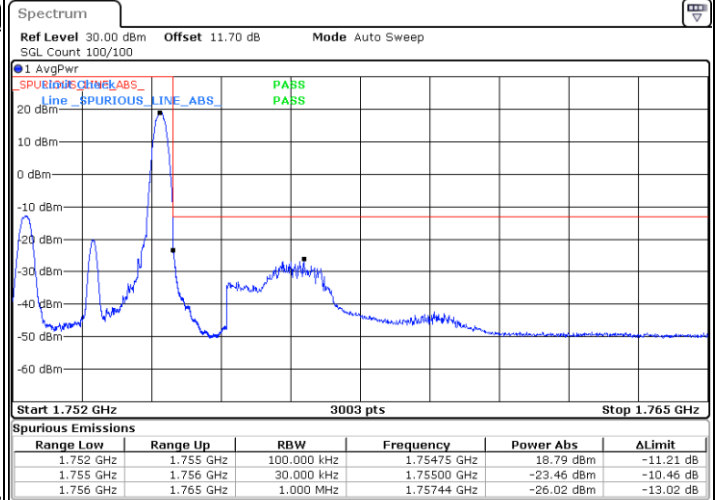


LTE Band 4 / 3MHz / QPSK

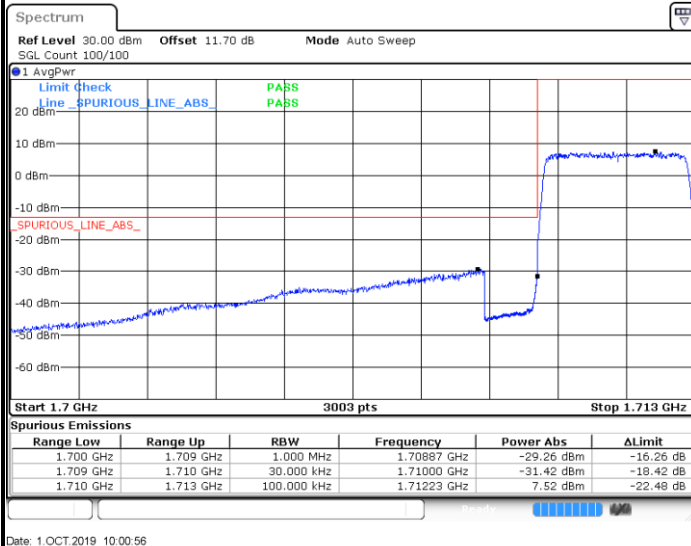
Lowest Band Edge / 1RB



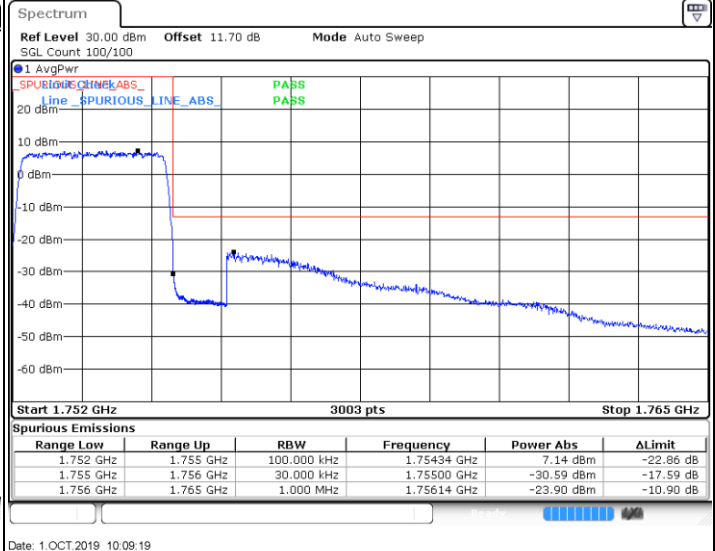
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



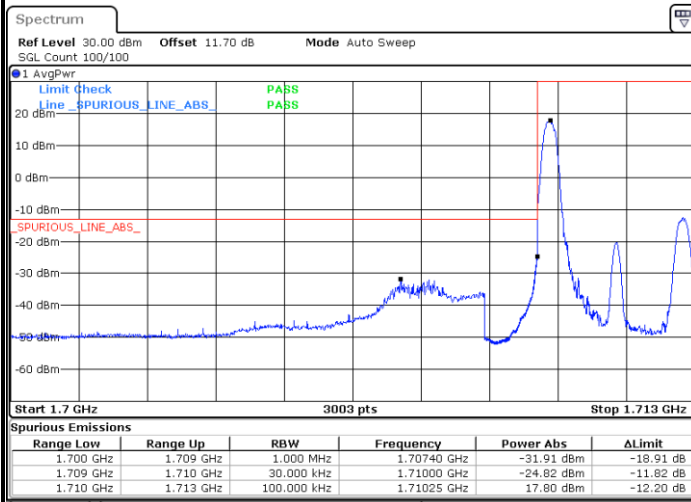
Highest Band Edge / Full RB



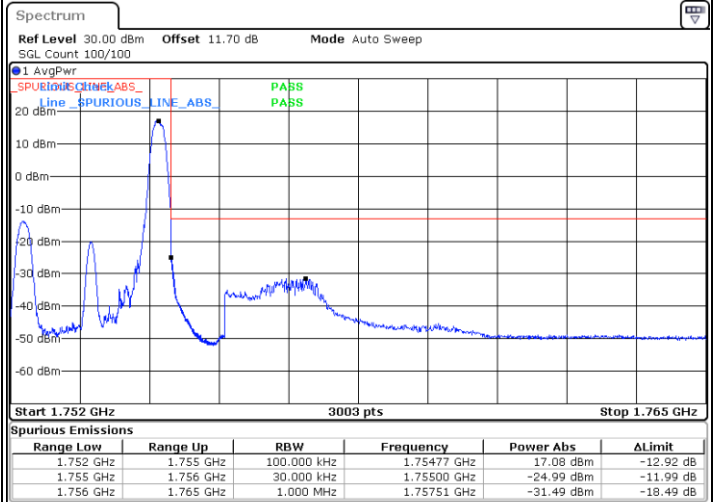


LTE Band 4 / 3MHz / 16QAM

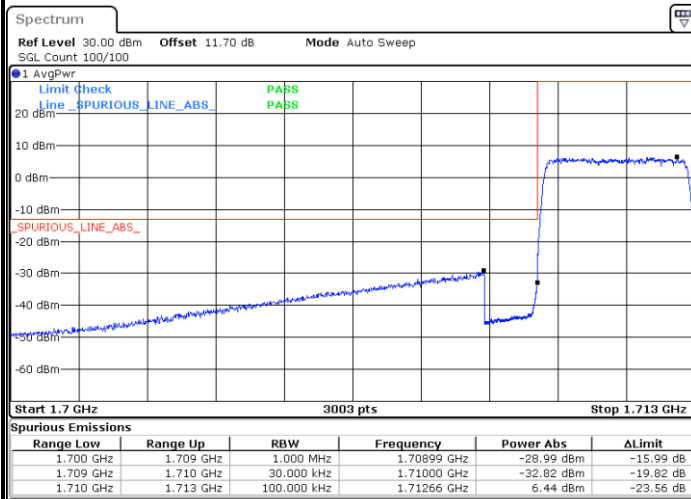
Lowest Band Edge / 1 RB



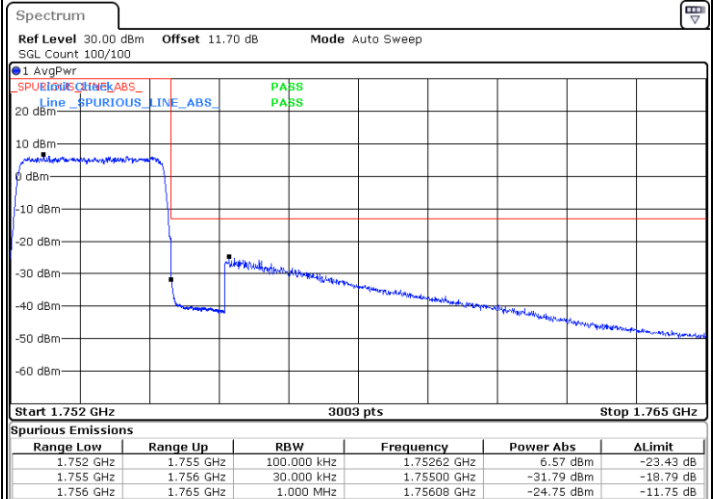
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



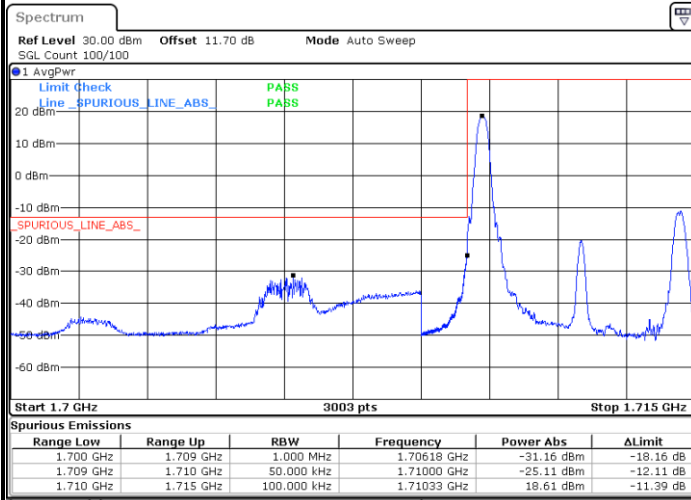
Highest Band Edge / Full RB



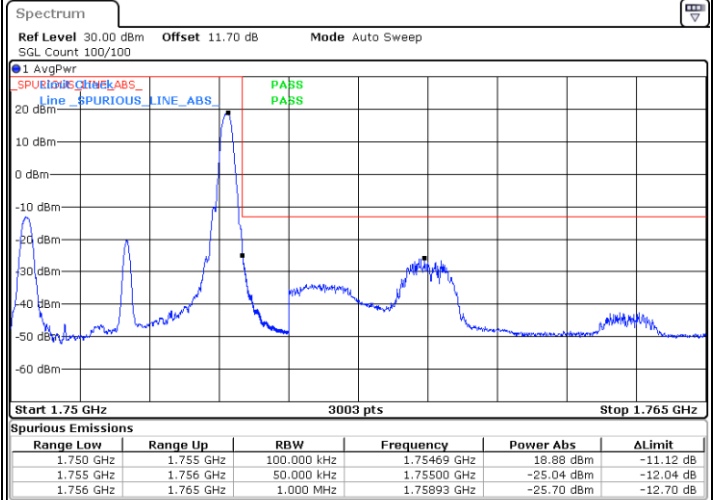


LTE Band 4 / 5MHz / QPSK

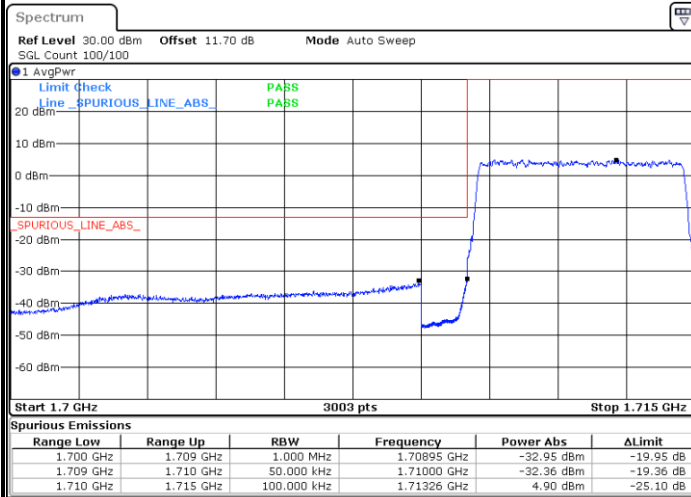
Lowest Band Edge / 1 RB



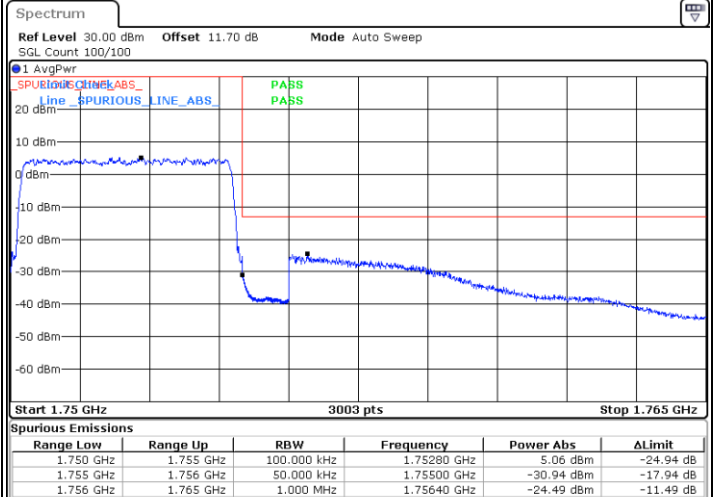
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



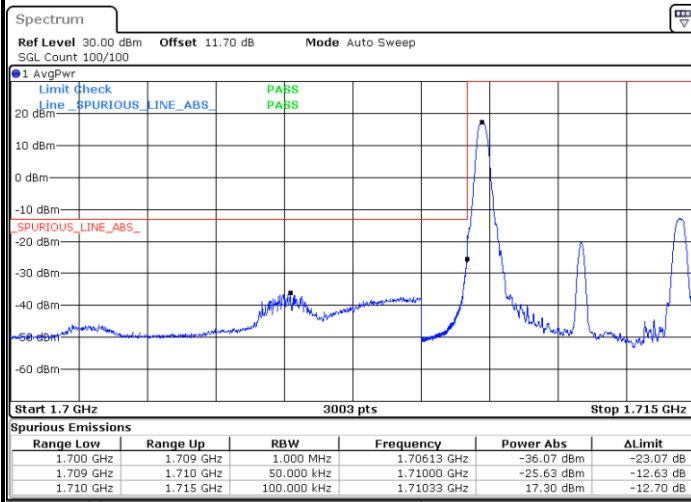
Highest Band Edge / Full RB



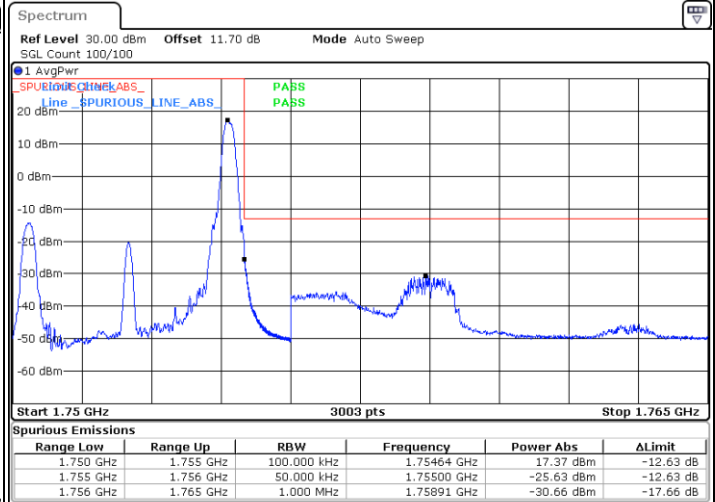


LTE Band 4 / 5MHz / 16QAM

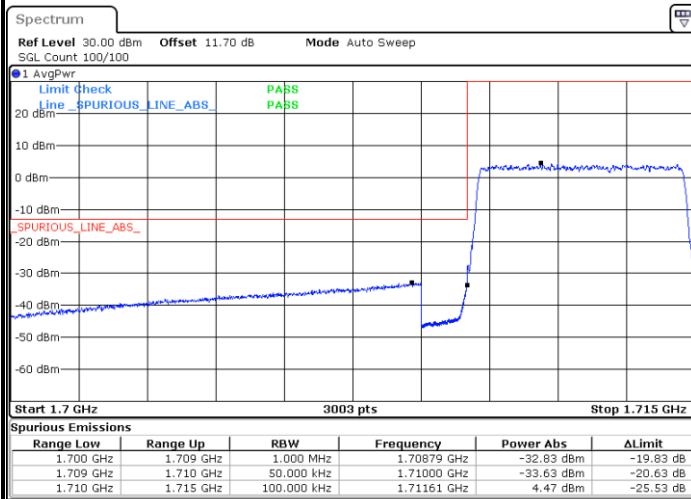
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

