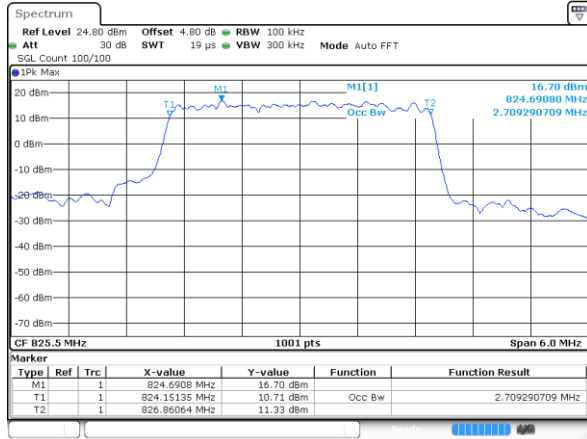


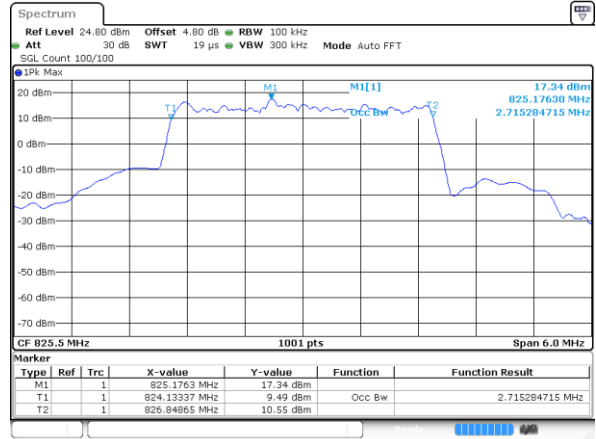


LTE Band 5

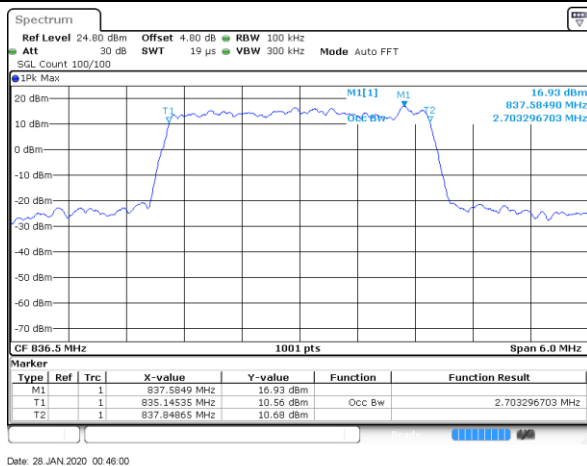
Lowest Channel / 3MHz / QPSK



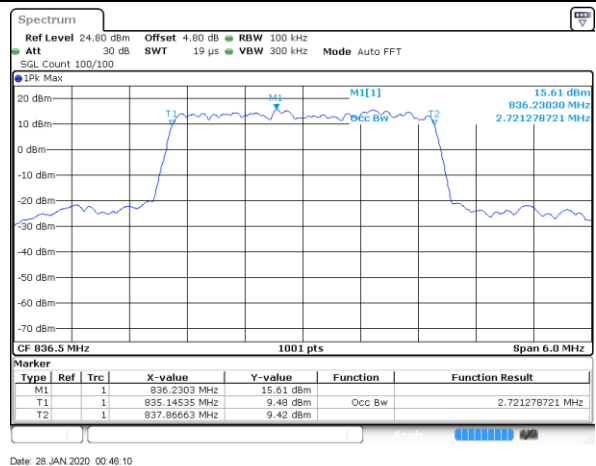
Lowest Channel / 3MHz / 16QAM



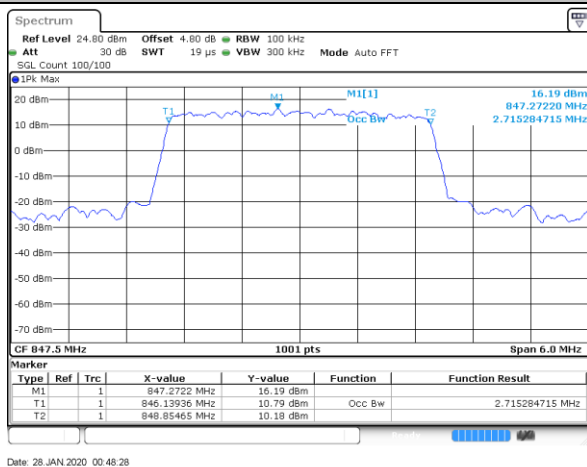
Middle Channel / 3MHz / QPSK



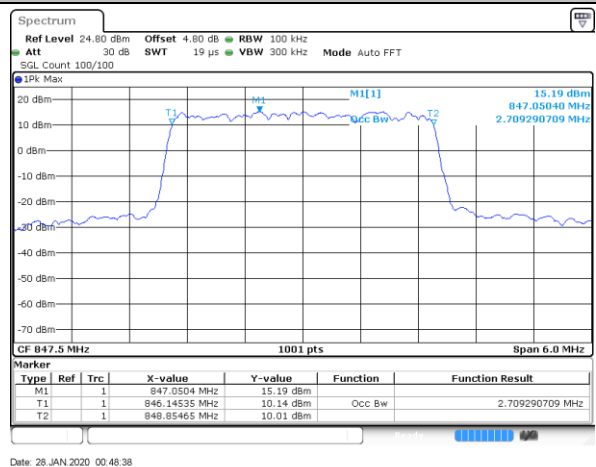
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



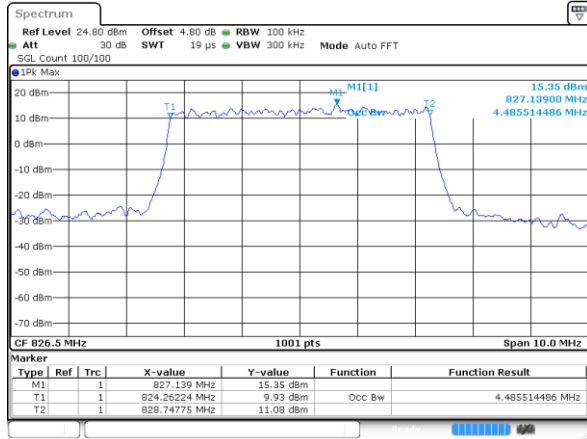
Highest Channel / 3MHz / 16QAM



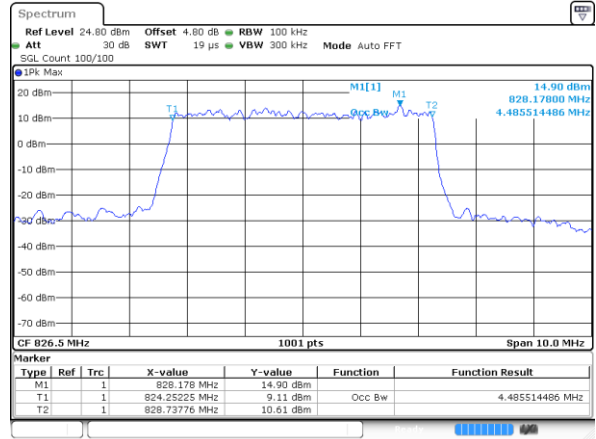


LTE Band 5

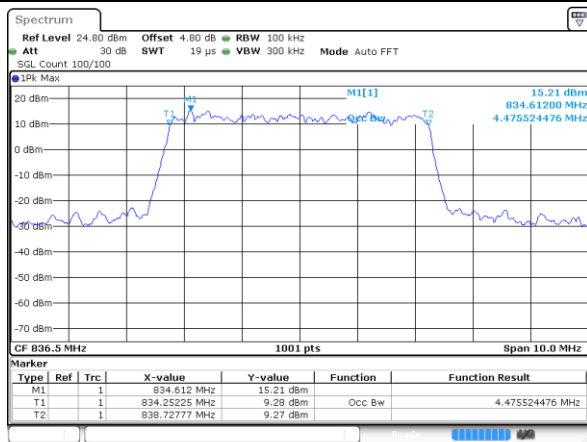
Lowest Channel / 5MHz / QPSK



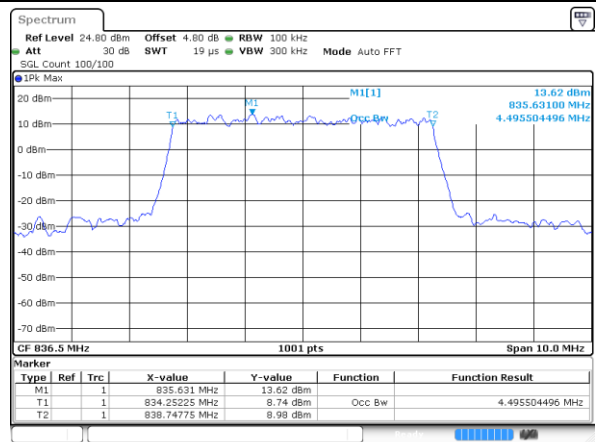
Lowest Channel / 5MHz / 16QAM



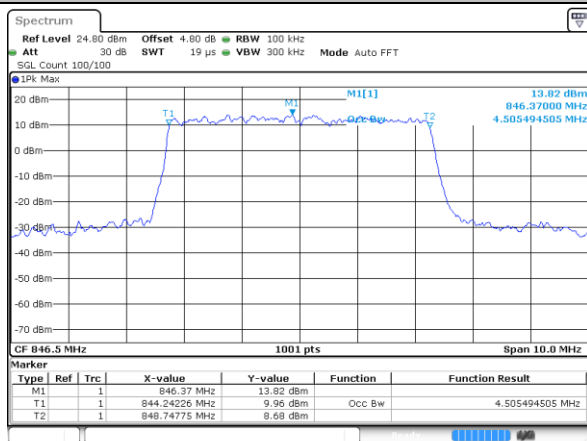
Middle Channel / 5MHz / QPSK



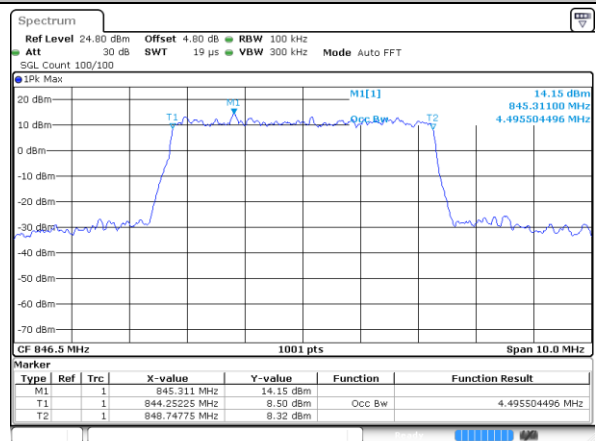
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



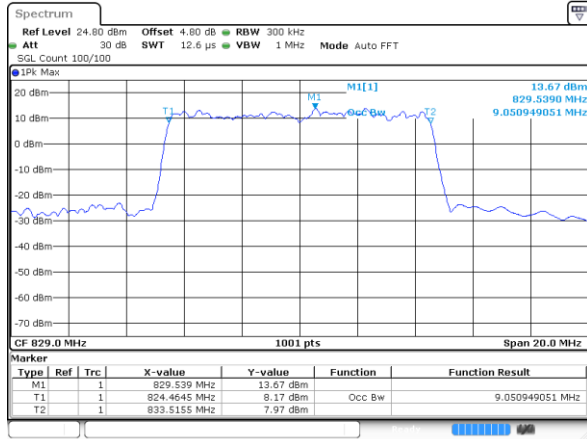
Highest Channel / 5MHz / 16QAM



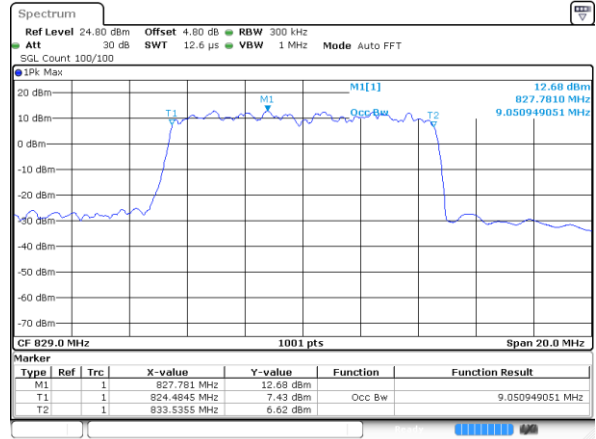


LTE Band 5

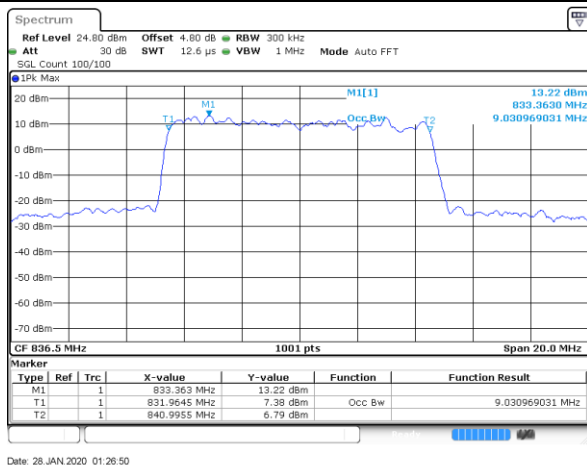
Lowest Channel / 10MHz / QPSK



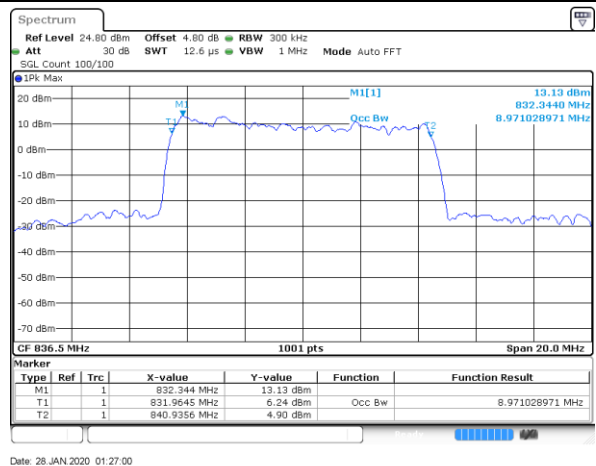
Lowest Channel / 10MHz / 16QAM



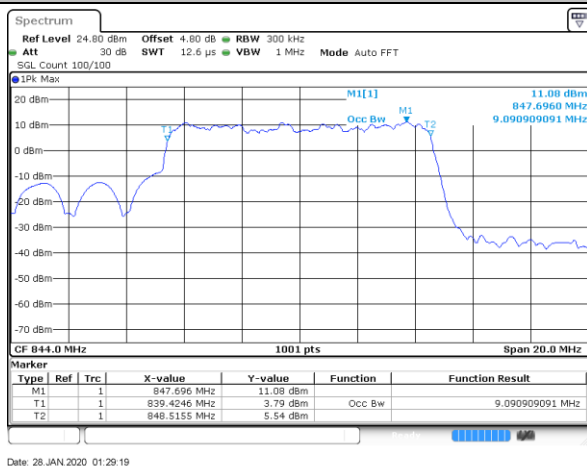
Middle Channel / 10MHz / QPSK



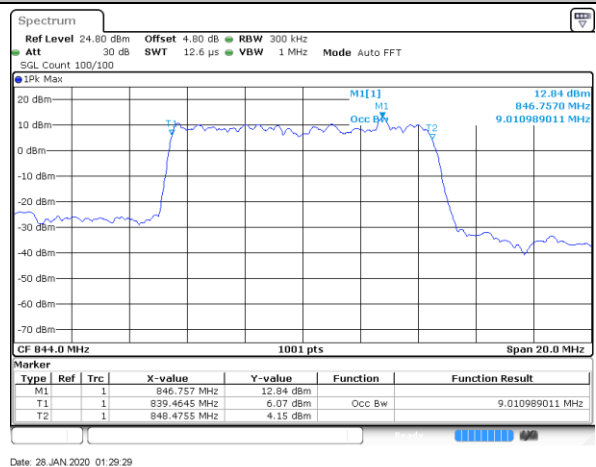
Middle Channel / 10MHz / 16QAM

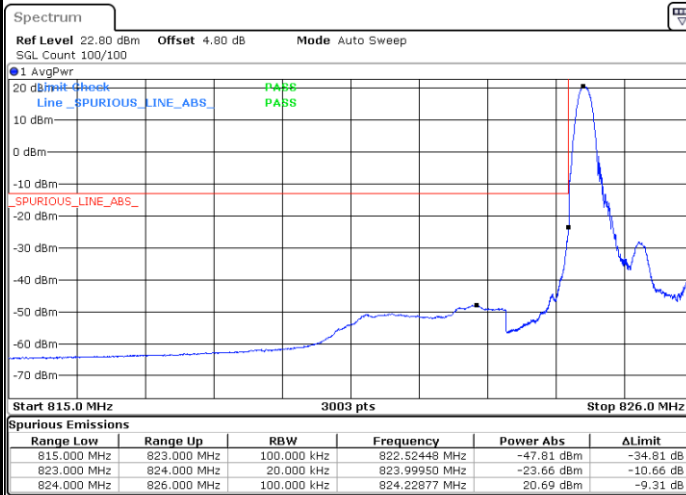
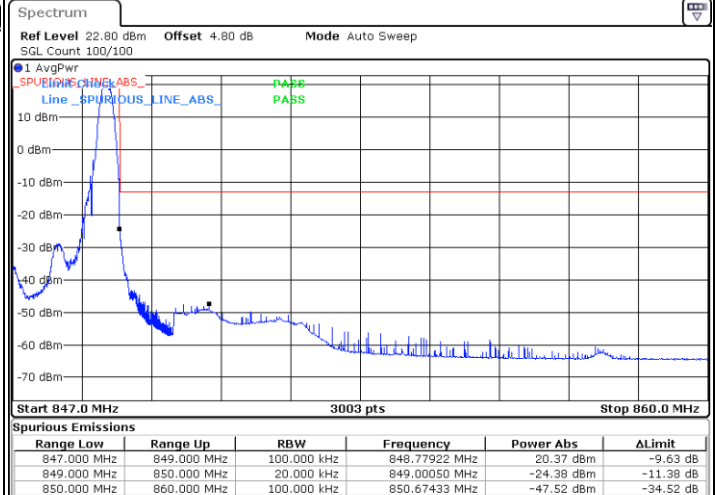
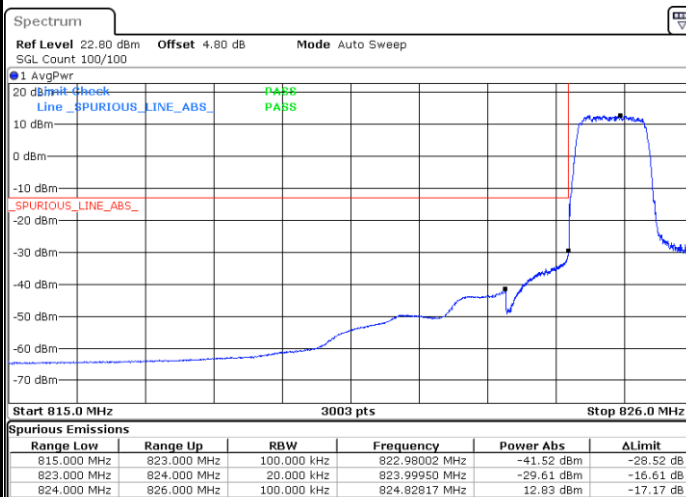
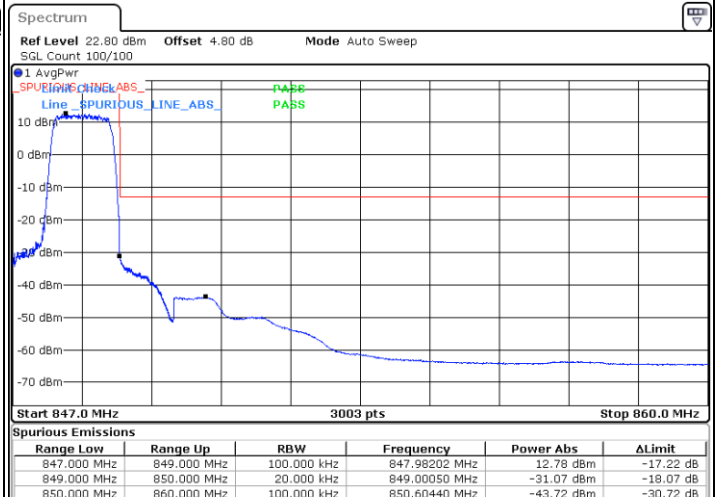


Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

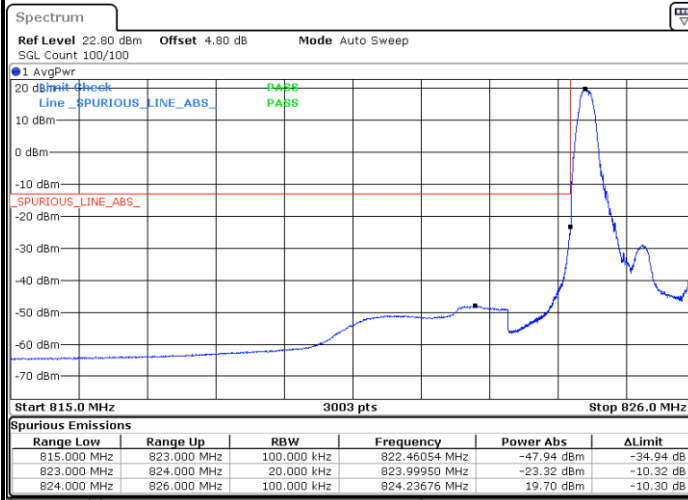


**Conducted Band Edge****LTE Band 5 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

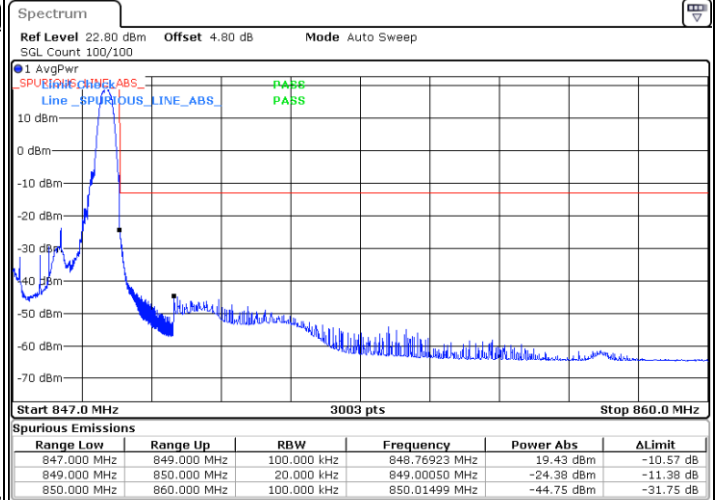


LTE Band 5 / 1.4MHz / 16QAM

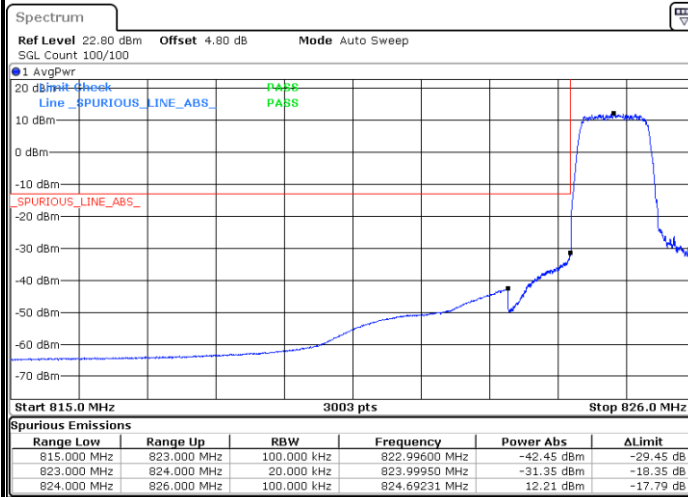
Lowest Band Edge / 1 RB



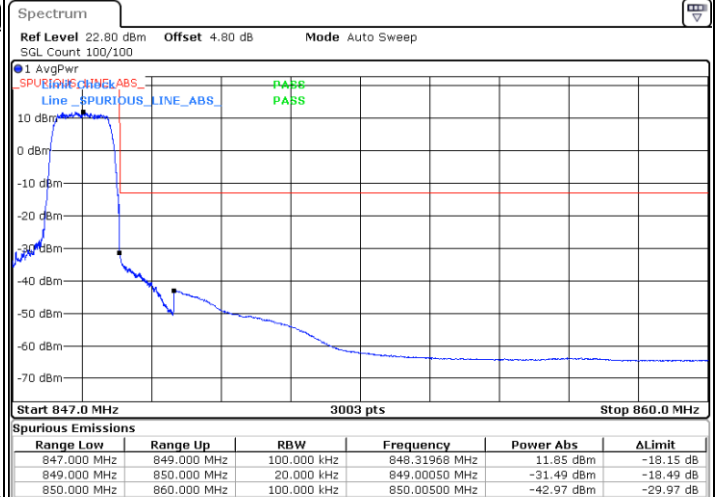
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



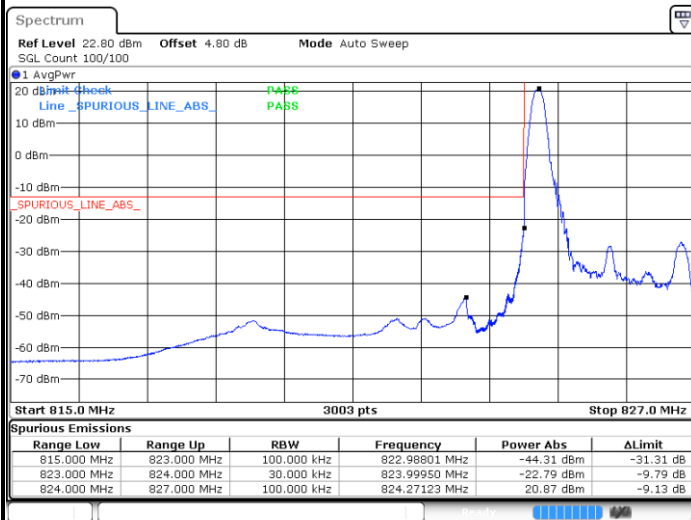
Highest Band Edge / Full RB



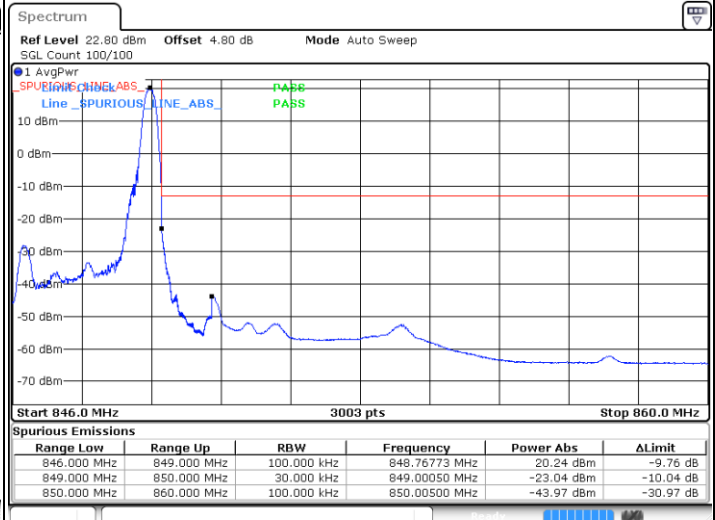


LTE Band 5 / 3MHz / QPSK

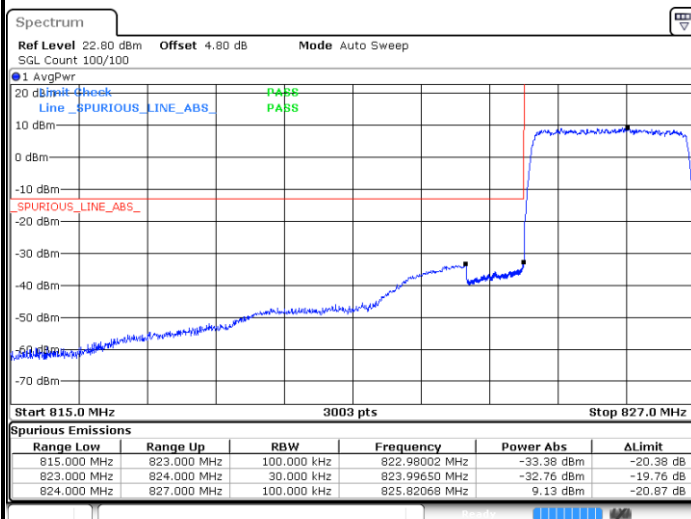
Lowest Band Edge / 1RB



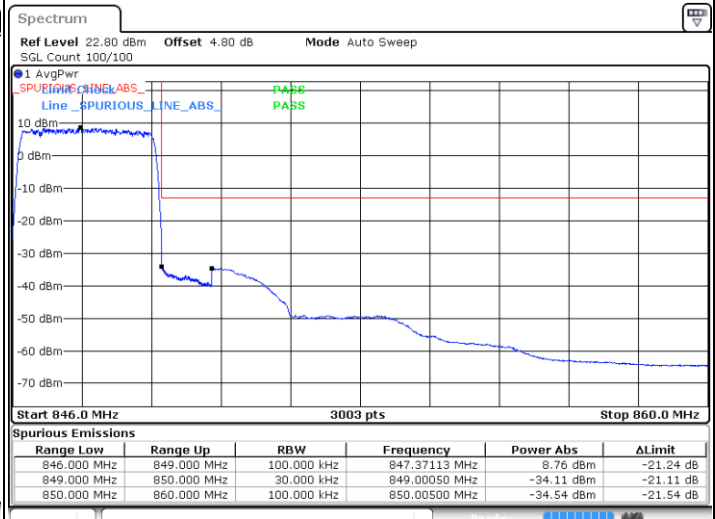
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



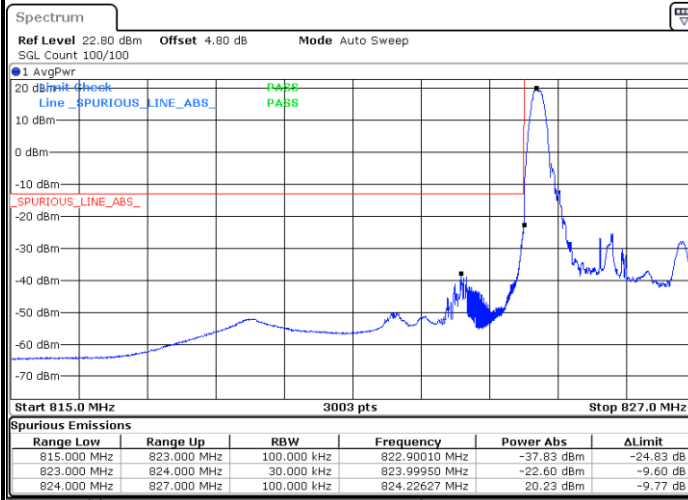
Highest Band Edge / Full RB





LTE Band 5 / 3MHz / 16QAM

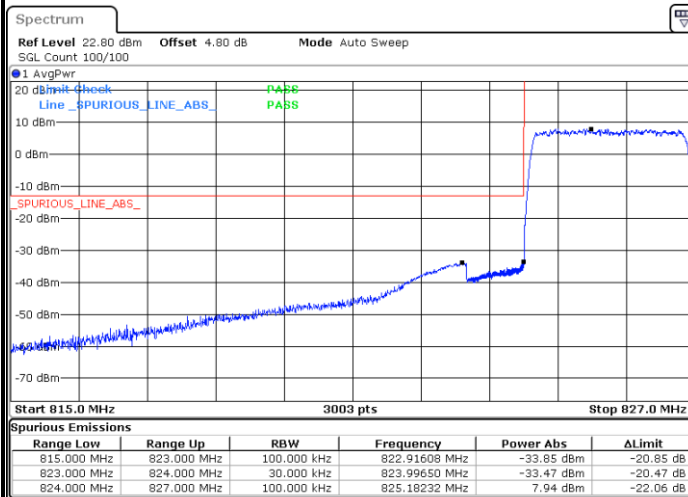
Lowest Band Edge / 1 RB



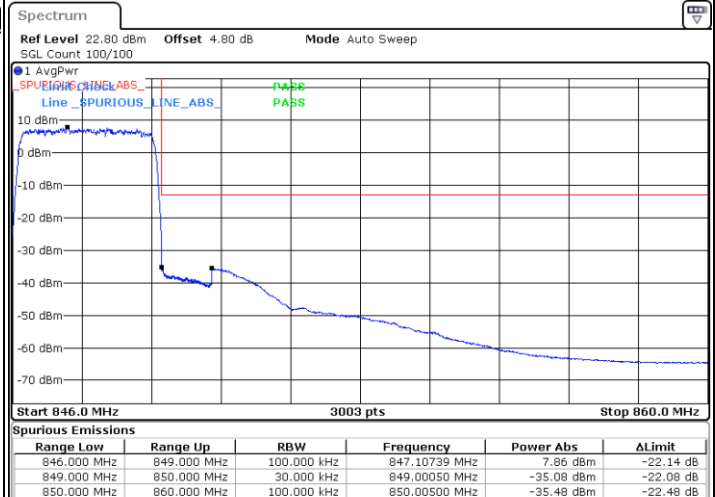
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



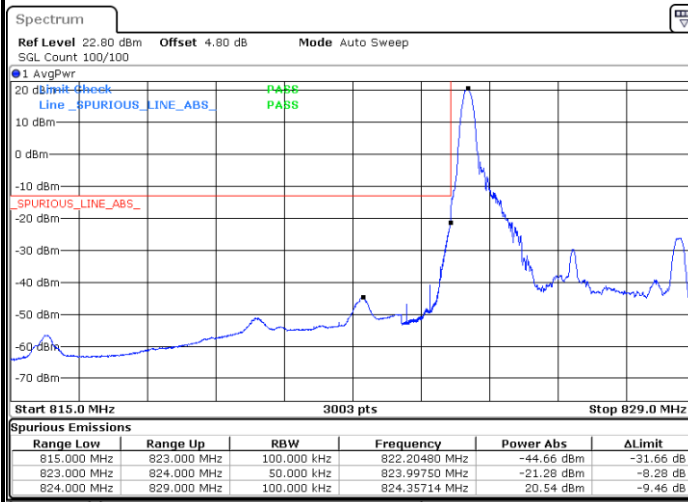
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / QPSK

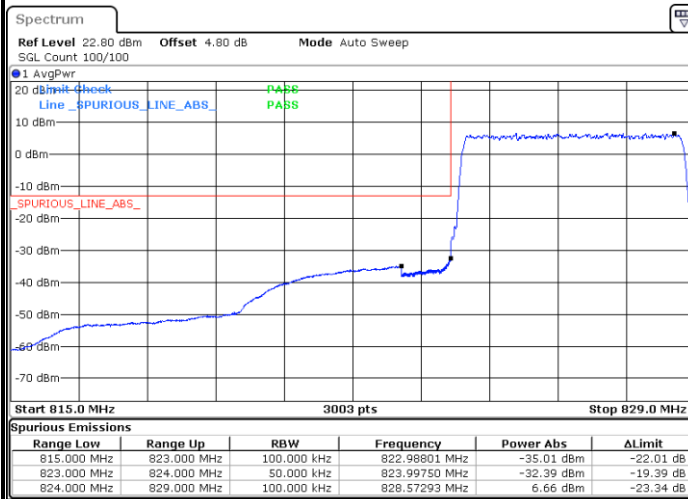
Lowest Band Edge / 1 RB



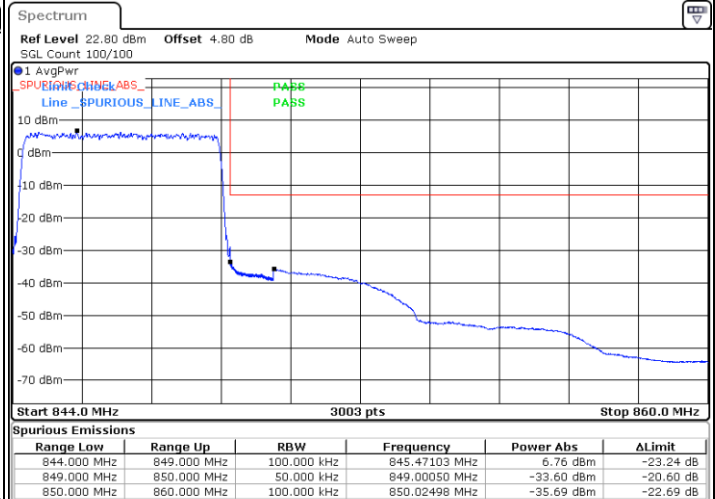
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



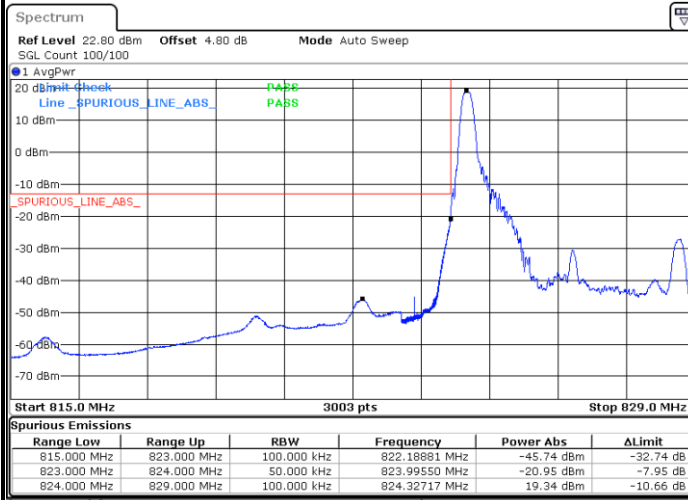
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / 16QAM

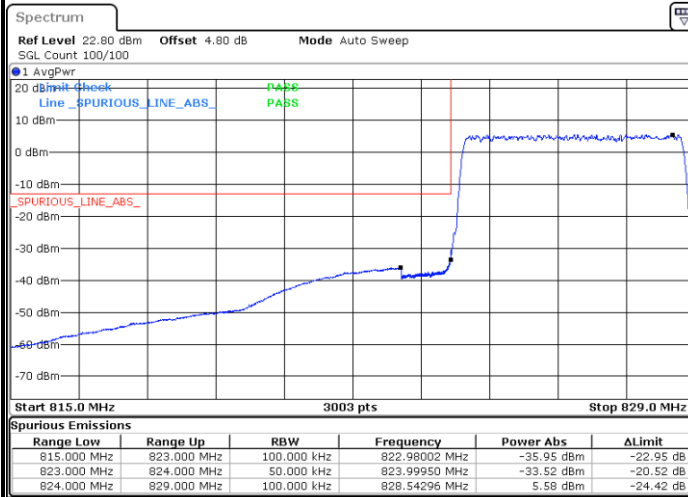
Lowest Band Edge / 1RB



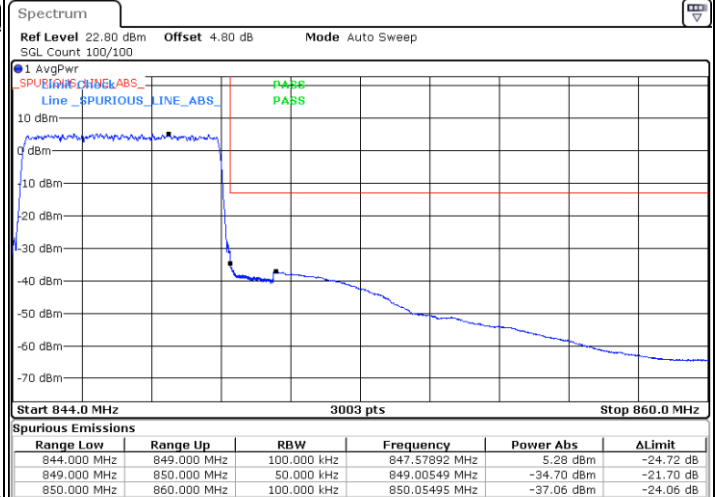
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



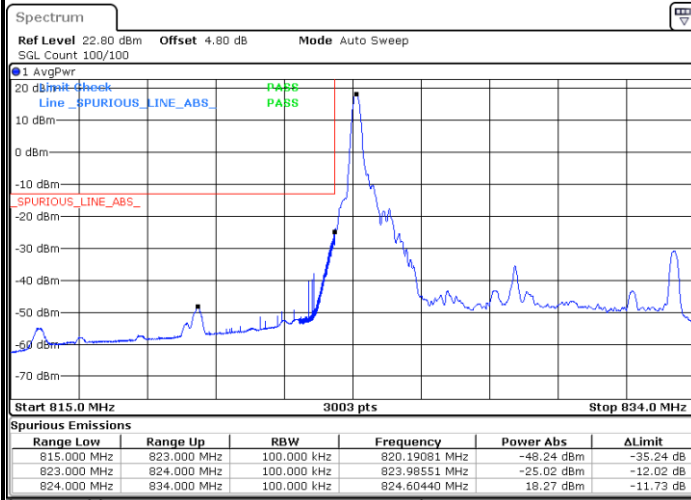
Highest Band Edge / Full RB



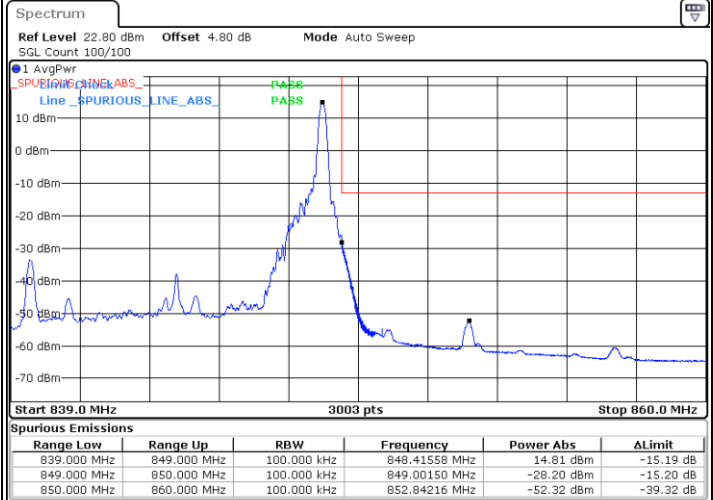


LTE Band 5 / 10MHz / QPSK

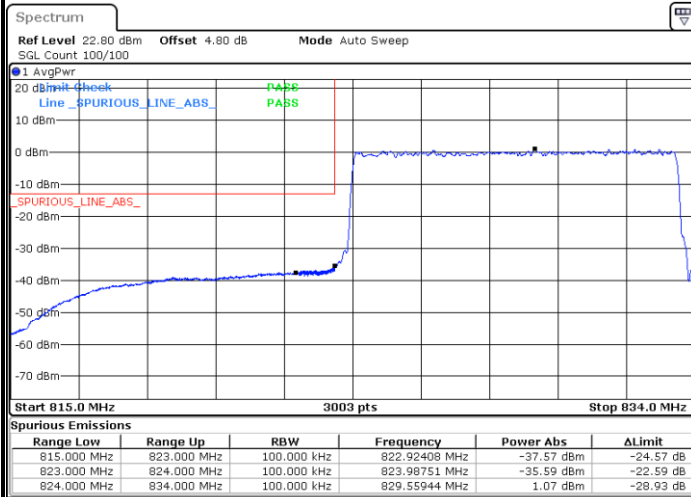
Lowest Band Edge / 1 RB



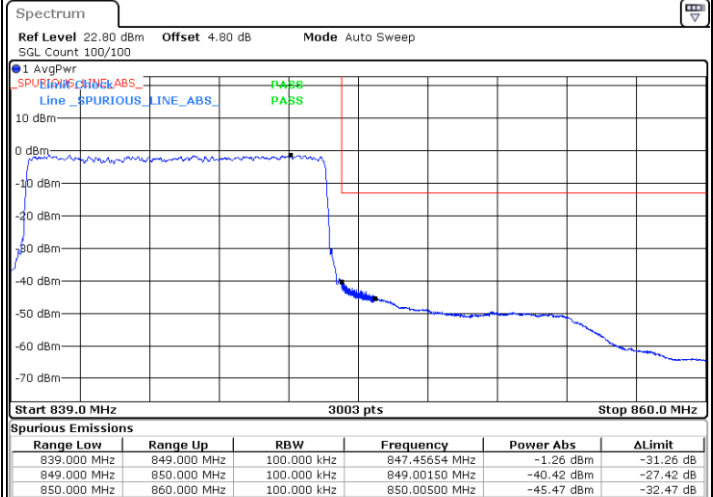
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



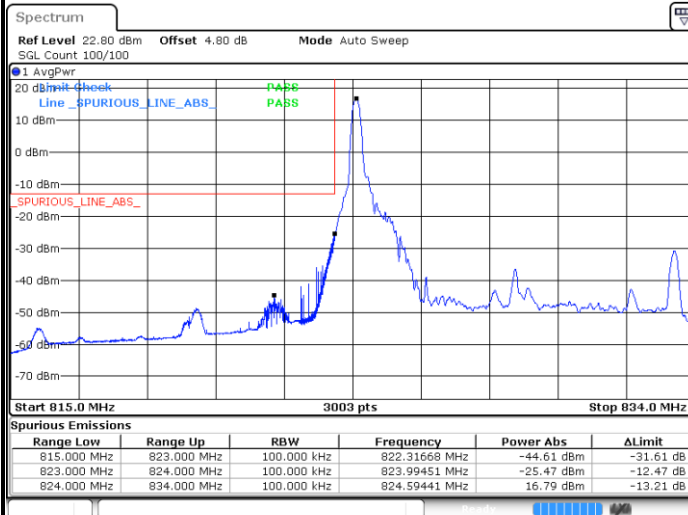
Highest Band Edge / Full RB



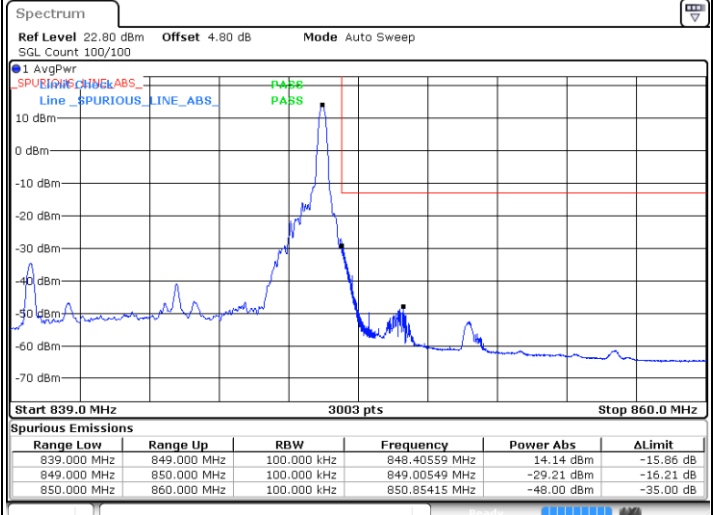


LTE Band 5 / 10MHz / 16QAM

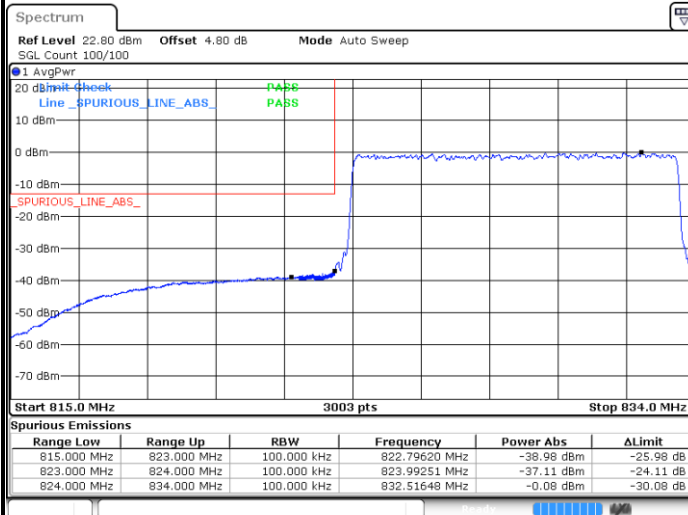
Lowest Band Edge / 1 RB



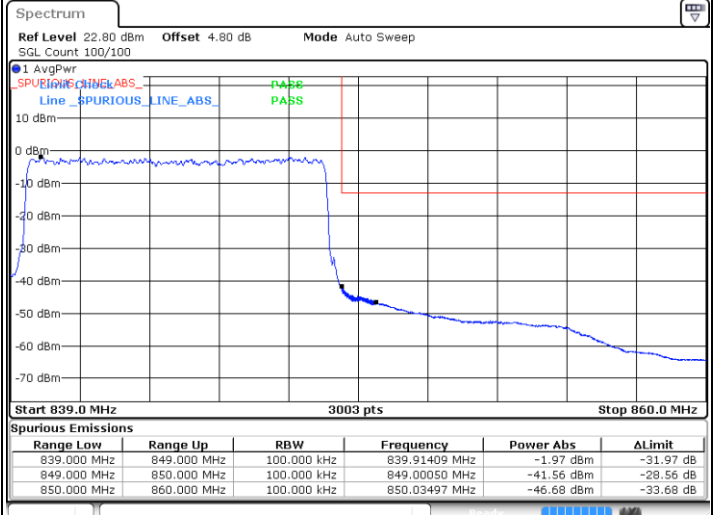
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

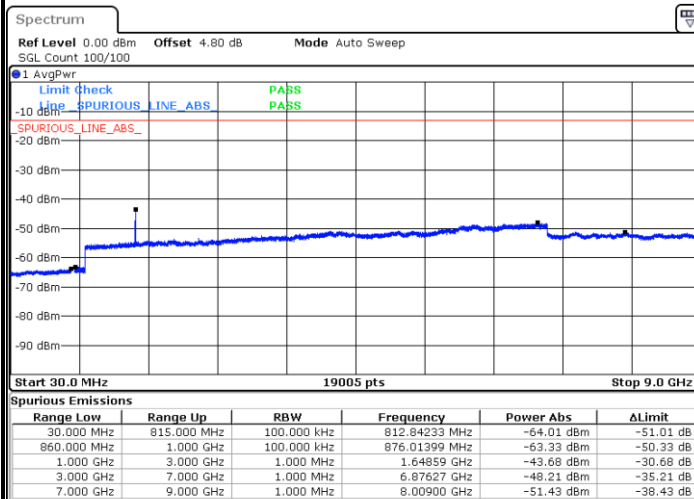




Conducted Spurious Emission

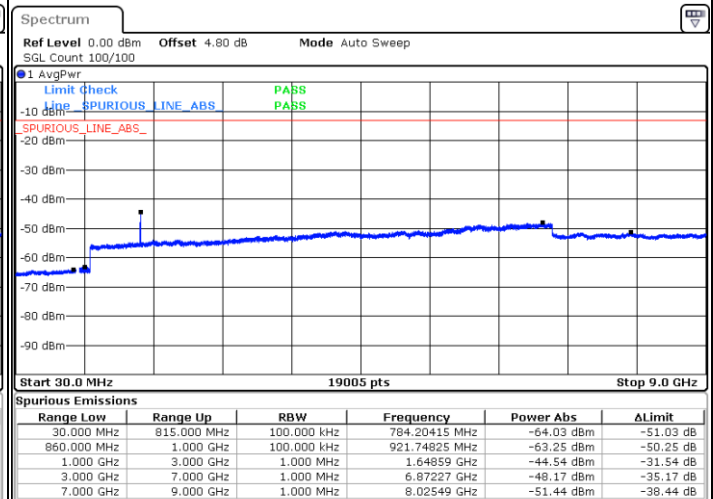
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



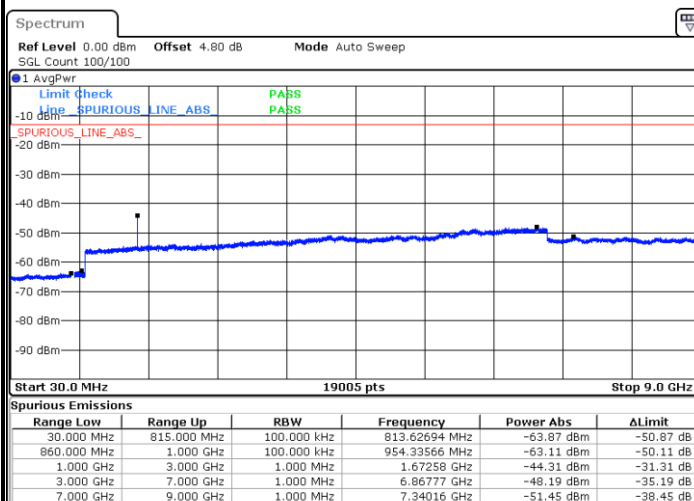
Date: 28 JAN 2020 00:24:29

Lowest Channel / 16QAM



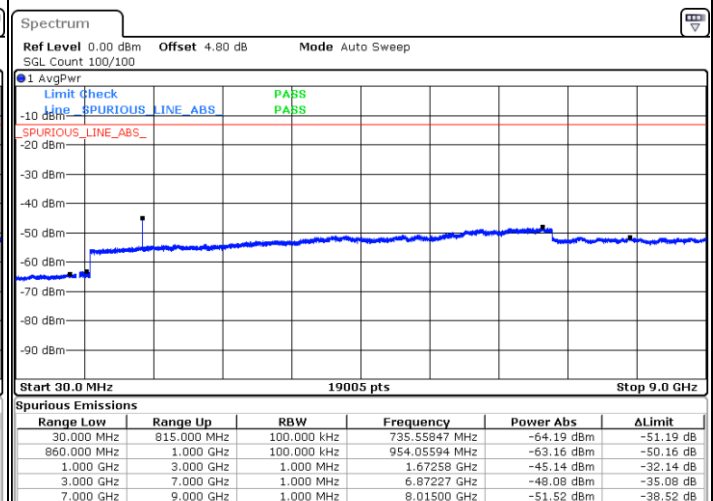
Date: 28 JAN 2020 00:25:23

Middle Channel / QPSK



Date: 28 JAN 2020 00:26:58

Middle Channel / 16QAM

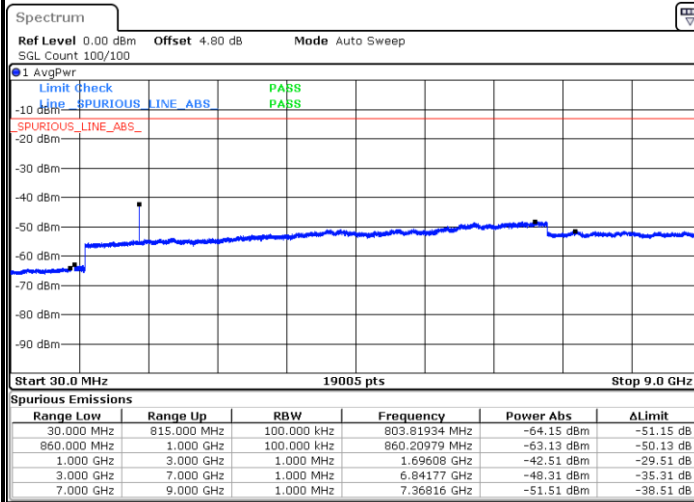


Date: 28 JAN 2020 00:27:52



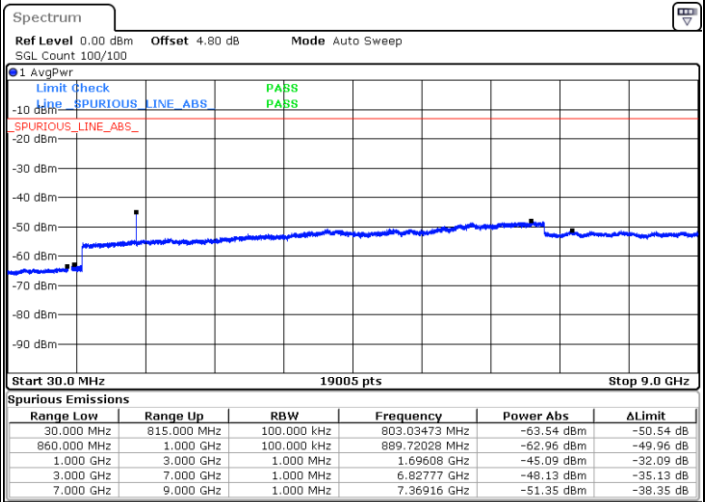
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 28 JAN 2020 00:35:57

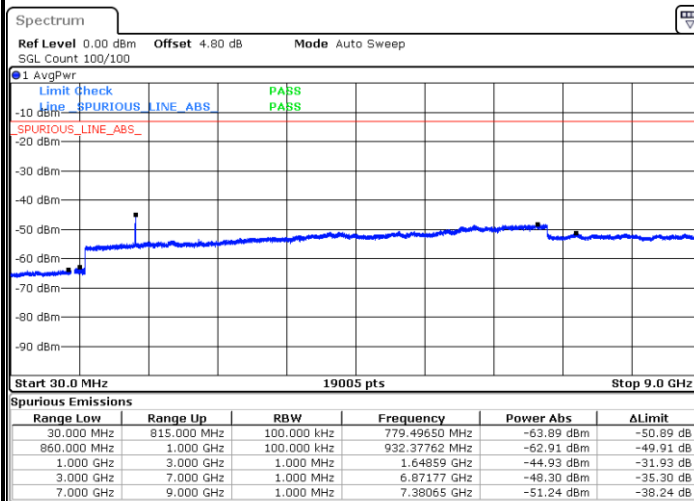
Highest Channel / 16QAM



Date: 28 JAN 2020 00:36:51

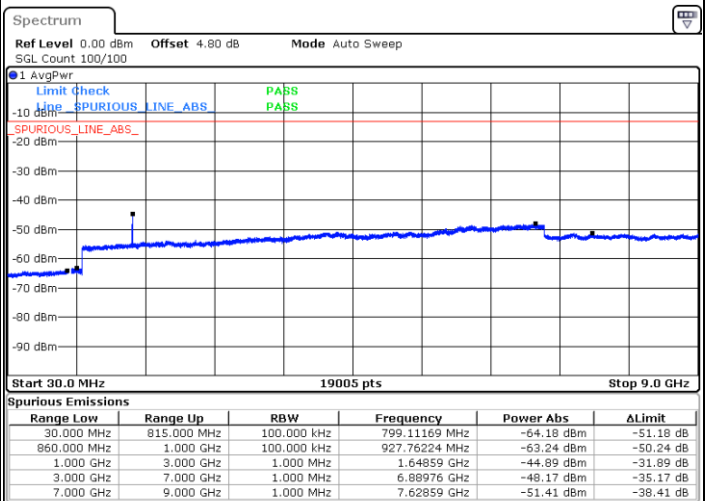
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 28 JAN 2020 00:44:55

Lowest Channel / 16QAM

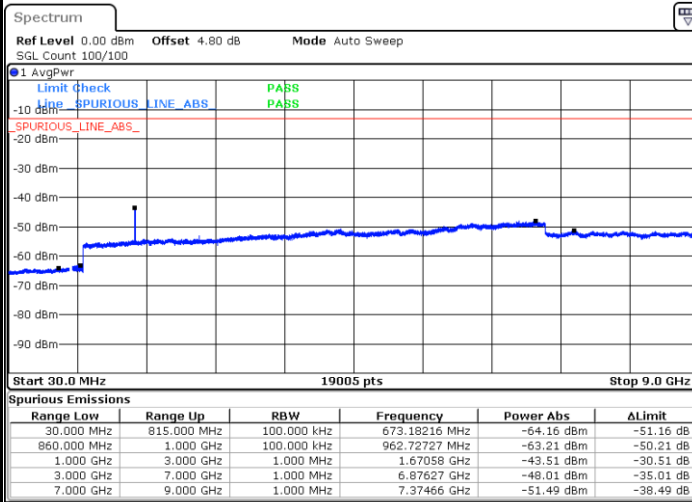


Date: 28 JAN 2020 00:45:49



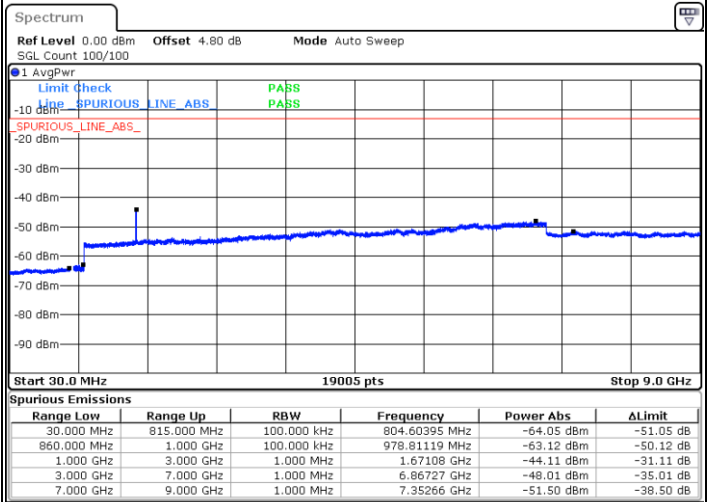
LTE Band 5 / 3MHz

Middle Channel / QPSK



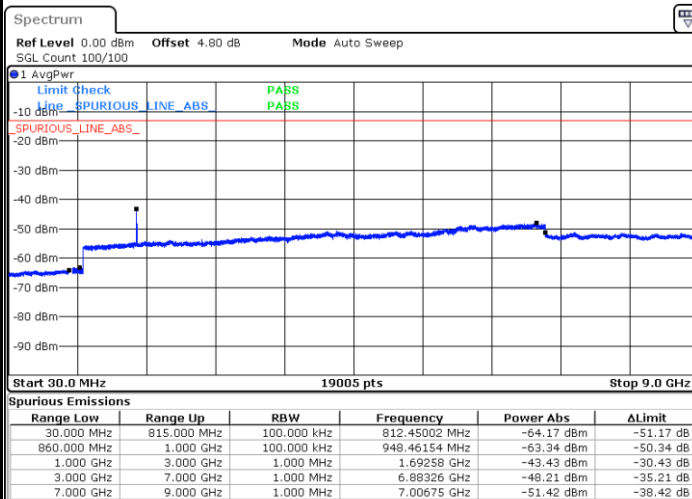
Date: 28 JAN 2020 00:47:23

Middle Channel / 16QAM



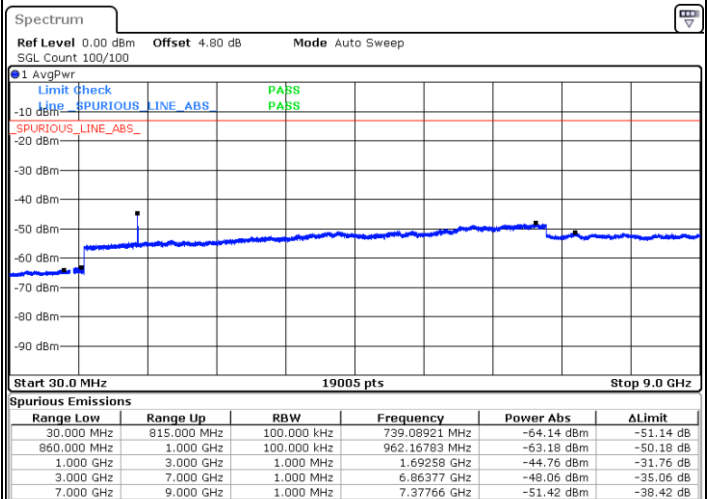
Date: 28 JAN 2020 00:48:18

Highest Channel / QPSK



Date: 28 JAN 2020 00:56:22

Highest Channel / 16QAM

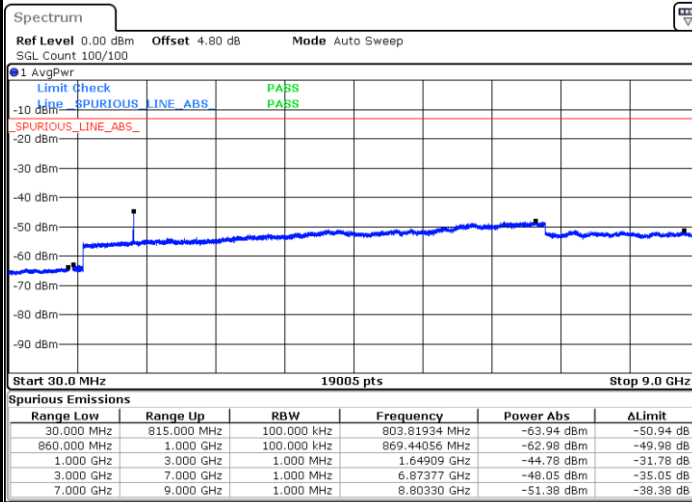


Date: 28 JAN 2020 00:57:16



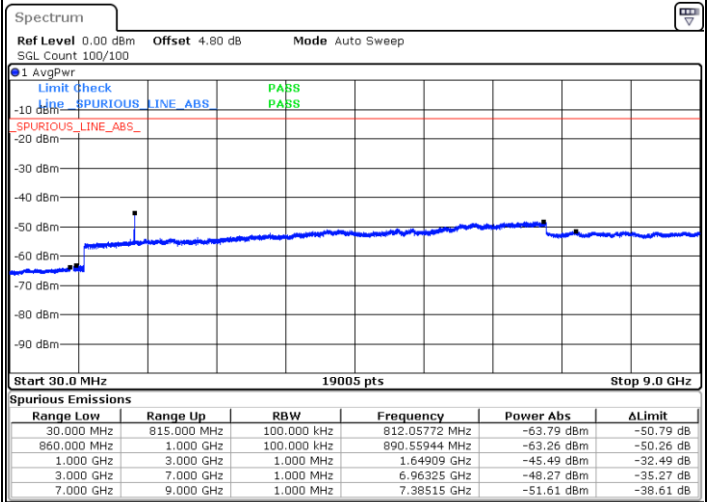
LTE Band 5 / 5MHz

Lowest Channel / QPSK



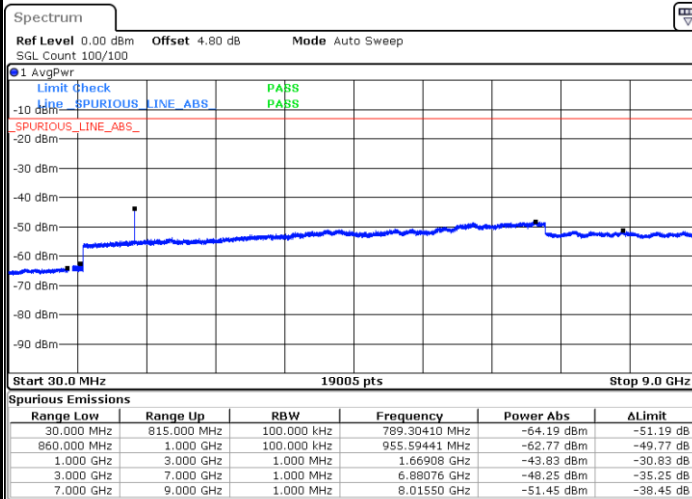
Date: 28 JAN 2020 01:05:20

Lowest Channel / 16QAM



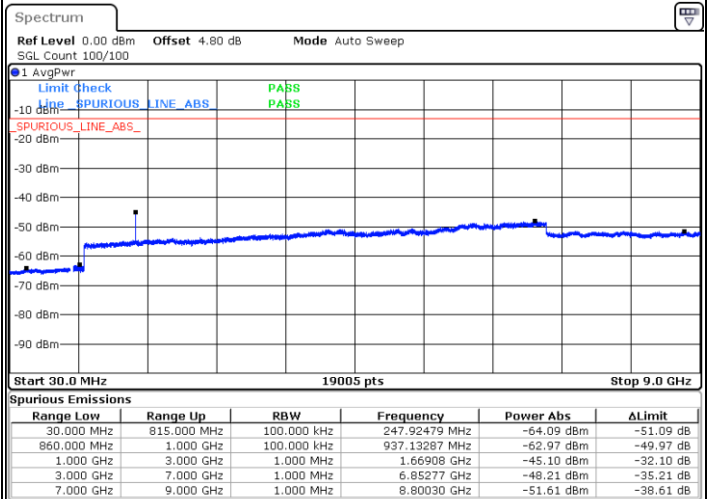
Date: 28 JAN 2020 01:06:15

Middle Channel / QPSK



Date: 28 JAN 2020 01:07:49

Middle Channel / 16QAM

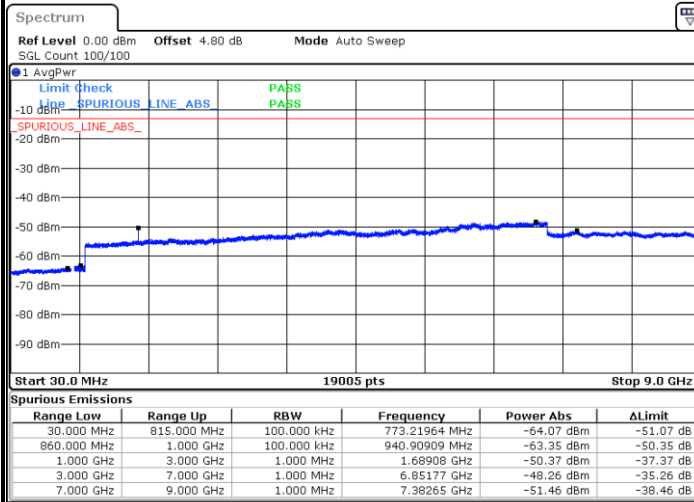


Date: 28 JAN 2020 01:08:43



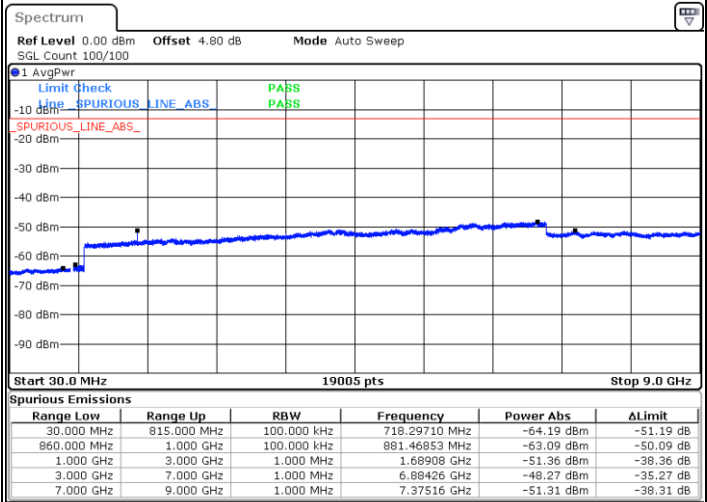
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 28 JAN 2020 01:16:47

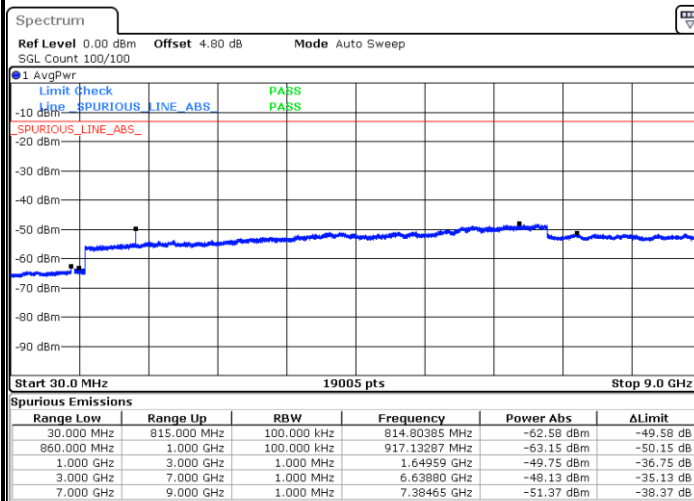
Highest Channel / 16QAM



Date: 28 JAN 2020 01:17:41

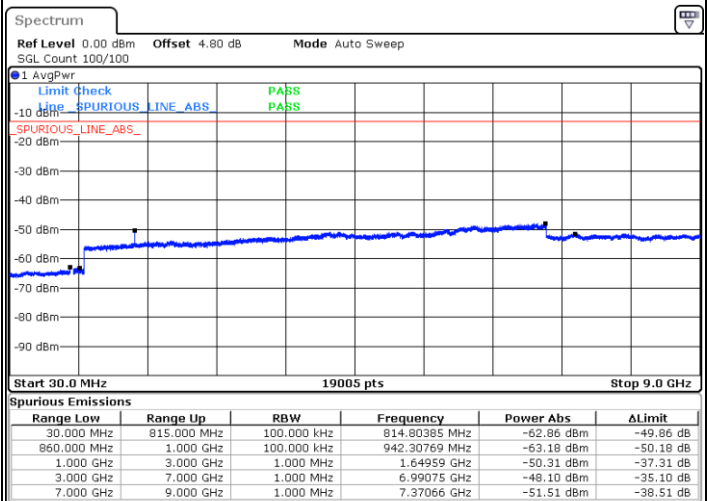
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 28 JAN 2020 01:25:45

Lowest Channel / 16QAM

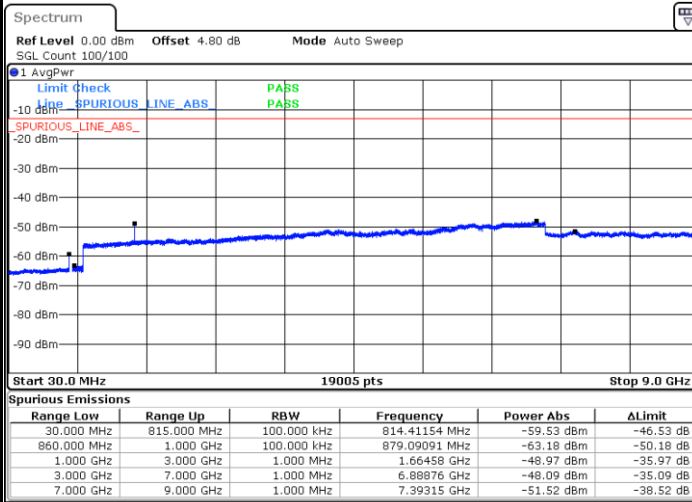


Date: 28 JAN 2020 01:26:40



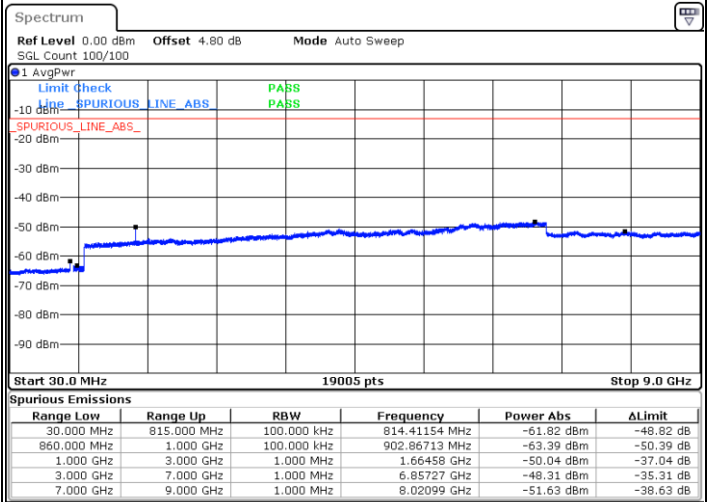
LTE Band 5 / 10MHz

Middle Channel / QPSK



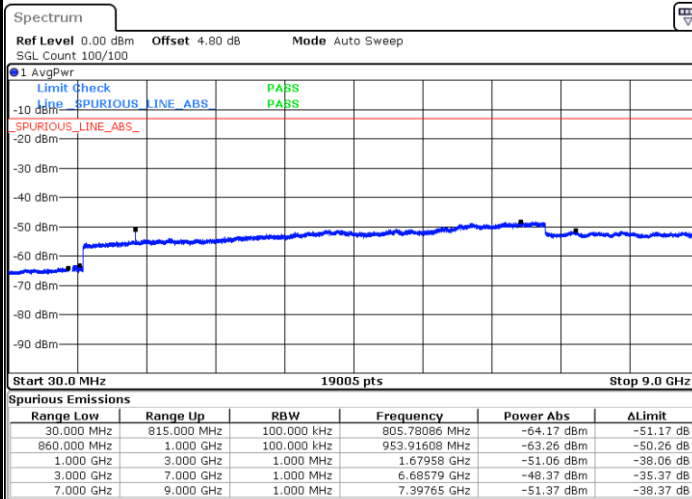
Date: 28 JAN 2020 01:28:14

Middle Channel / 16QAM



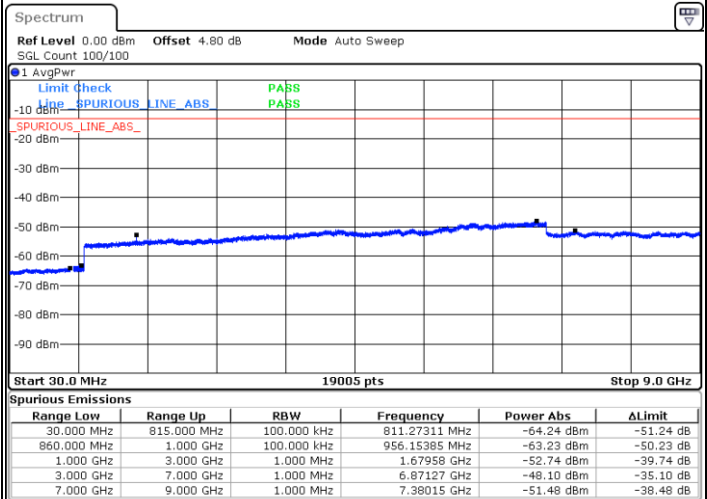
Date: 28 JAN 2020 01:29:08

Highest Channel / QPSK



Date: 28 JAN 2020 01:37:12

Highest Channel / 16QAM



Date: 28 JAN 2020 01:38:07

**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.



LTE Band 12

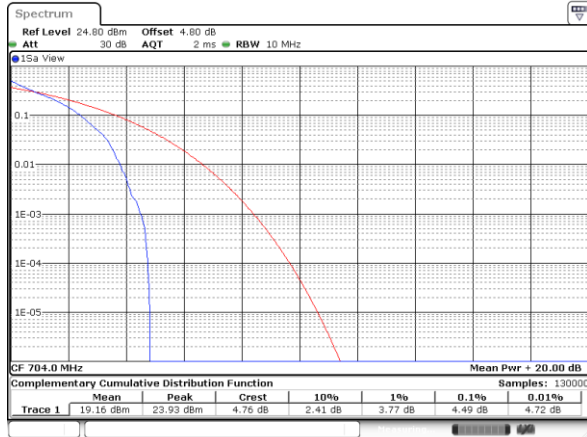
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.49	5.28	5.65	5.94	PASS
Middle CH	4.72	5.04	5.48	5.88	
Highest CH	5.07	4.93	6.00	5.77	

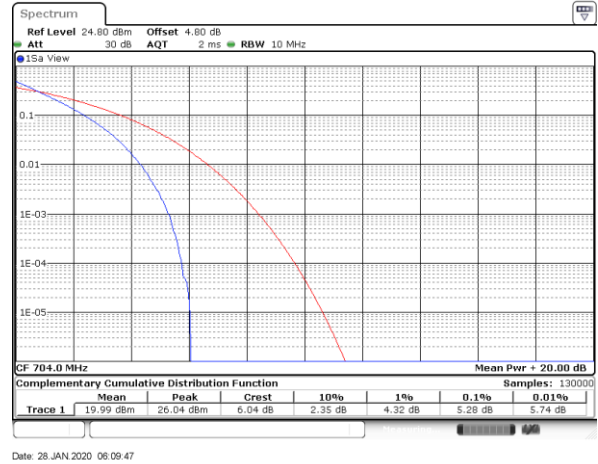


LTE Band 12 / 10MHz / QPSK

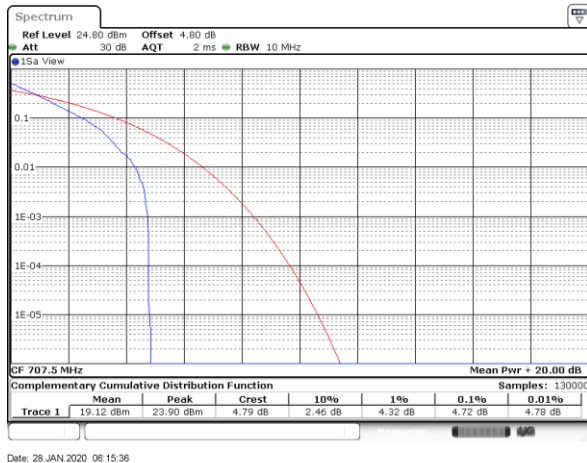
Lowest Channel / 1RB



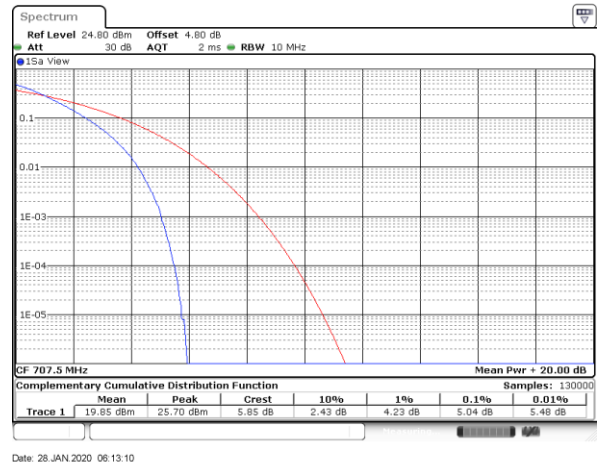
Lowest Channel / Full RB



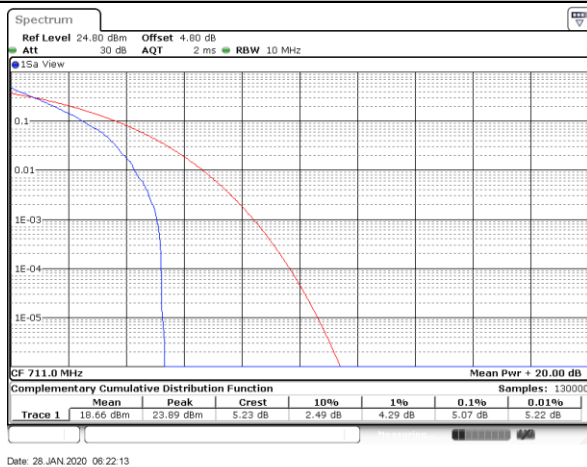
Middle Channel / 1RB



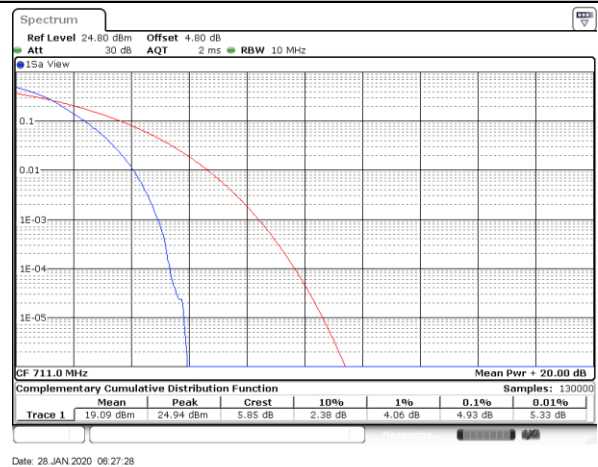
Middle Channel / Full RB

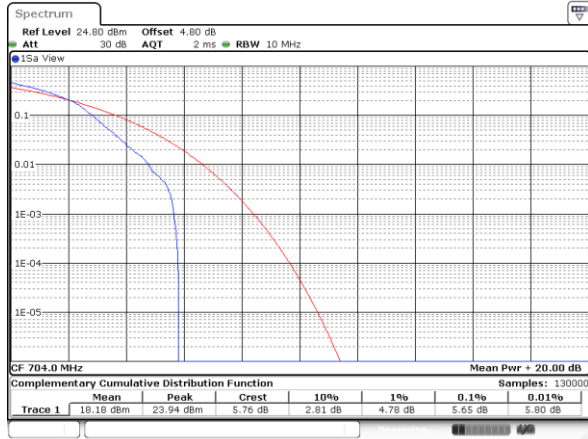


Highest Channel / 1RB

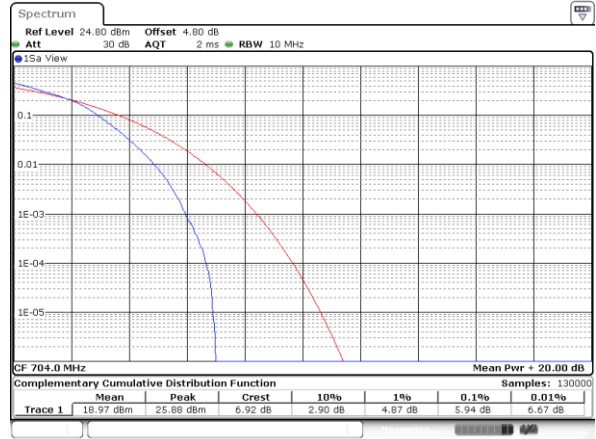


Highest Channel / Full RB

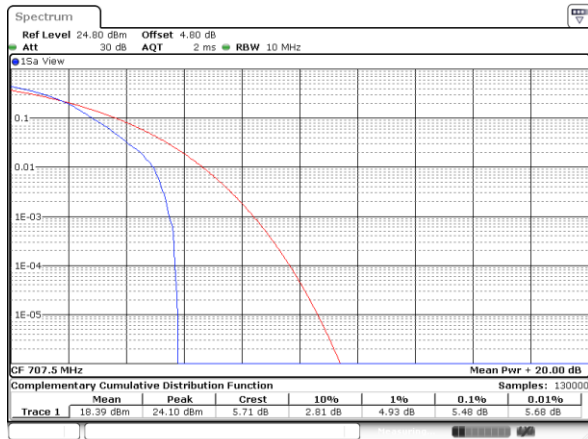


LTE Band 12 / 10MHz / 16QAM
Lowest Channel / 1RB


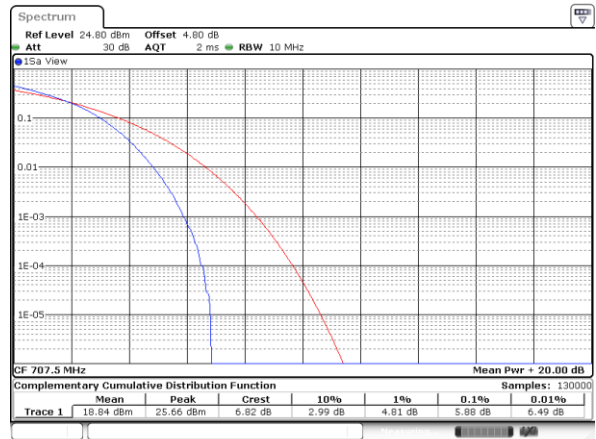
Date: 28 JAN 2020 06:03:54

Lowest Channel / Full RB


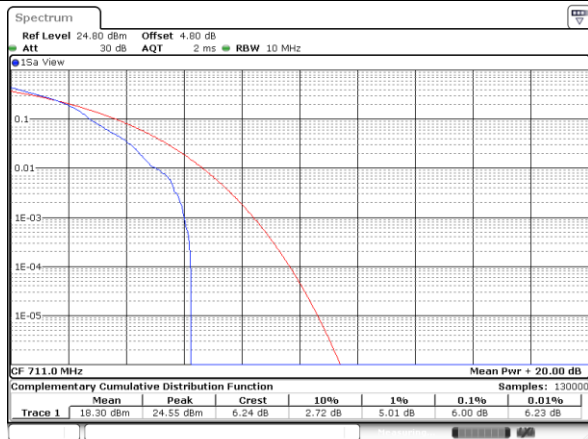
Date: 28 JAN 2020 06:12:34

Middle Channel / 1RB


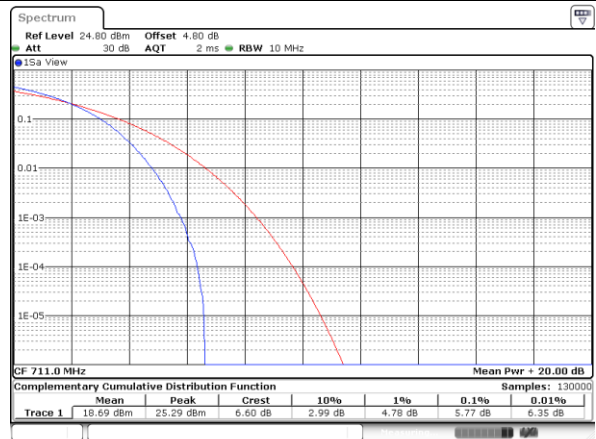
Date: 28 JAN 2020 06:17:47

Middle Channel / Full RB


Date: 28 JAN 2020 06:12:46

Highest Channel / 1RB


Date: 28 JAN 2020 06:18:41

Highest Channel / Full RB


Date: 28 JAN 2020 07:01:23



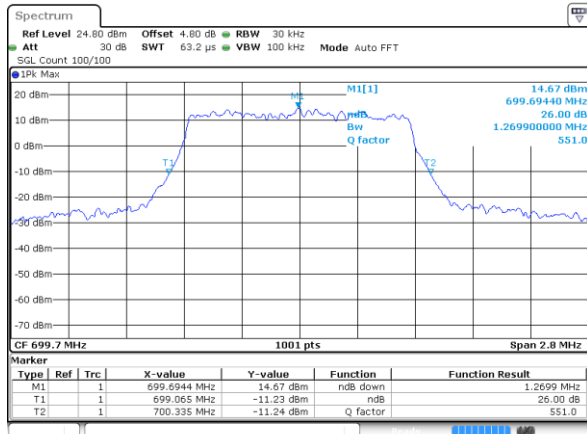
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.270	1.295	2.925	2.961	4.925	5.075	10.15	9.75
Middle CH	1.264	1.278	2.949	2.961	5.015	4.935	9.91	9.85
Highest CH	1.287	1.278	2.949	2.961	4.975	4.895	9.85	9.95



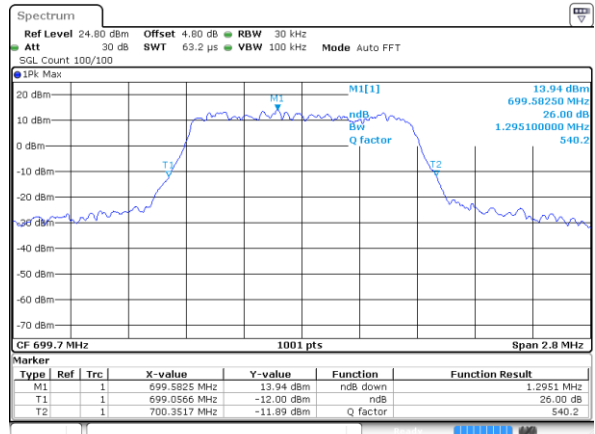
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



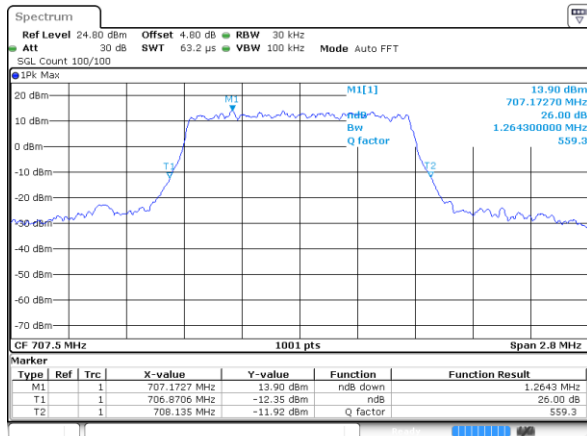
Date: 28 JAN 2020 02:55:55

Lowest Channel / 1.4MHz / 16QAM



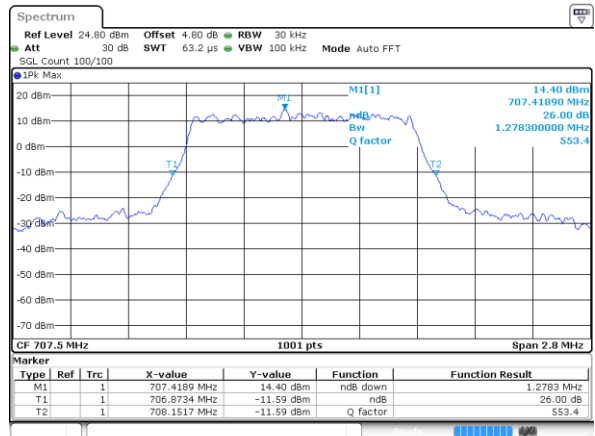
Date: 28 JAN 2020 02:55:46

Middle Channel / 1.4MHz / QPSK



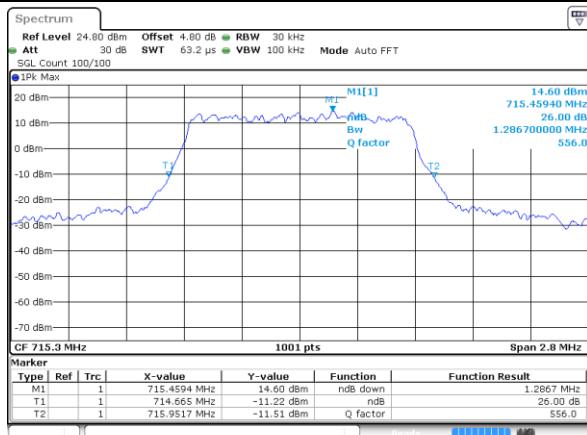
Date: 28 JAN 2020 02:55:26

Middle Channel / 1.4MHz / 16QAM



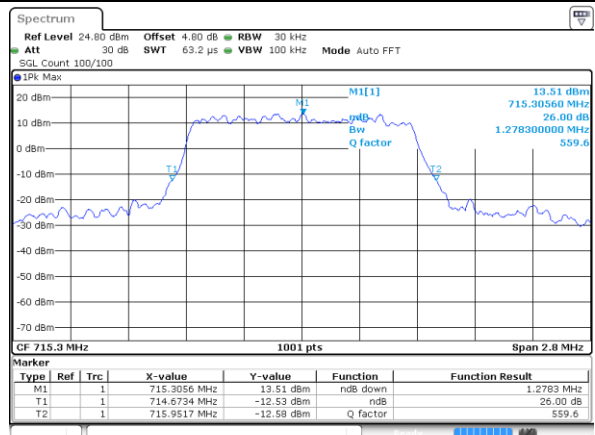
Date: 28 JAN 2020 02:55:36

Highest Channel / 1.4MHz / QPSK



Date: 28 JAN 2020 02:55:16

Highest Channel / 1.4MHz / 16QAM

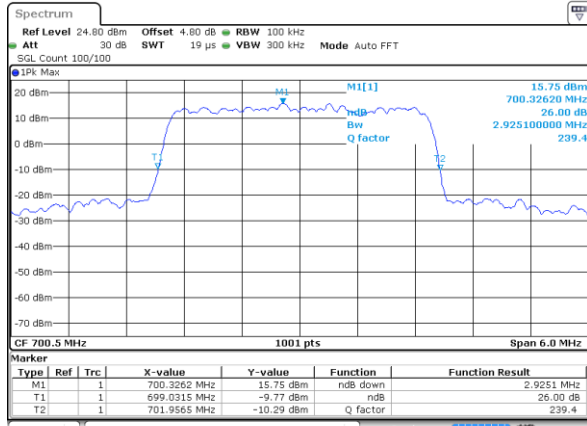


Date: 28 JAN 2020 02:55:06



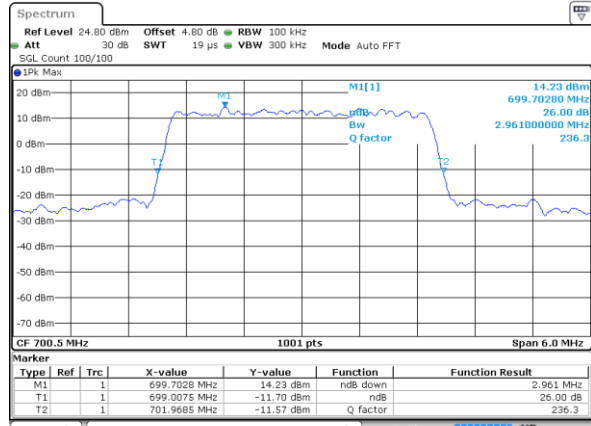
LTE Band 12

Lowest Channel / 3MHz / QPSK



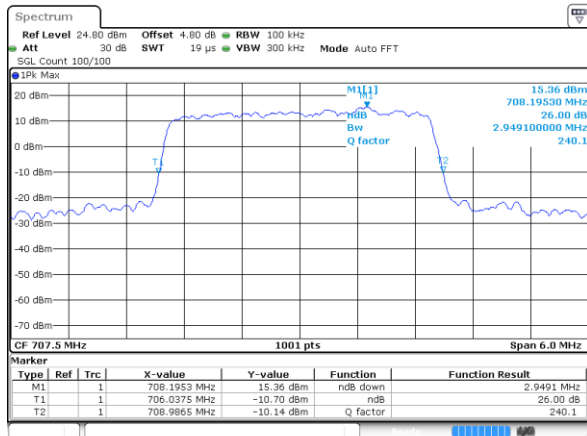
Date: 28 JAN 2020 04:12:34

Lowest Channel / 3MHz / 16QAM



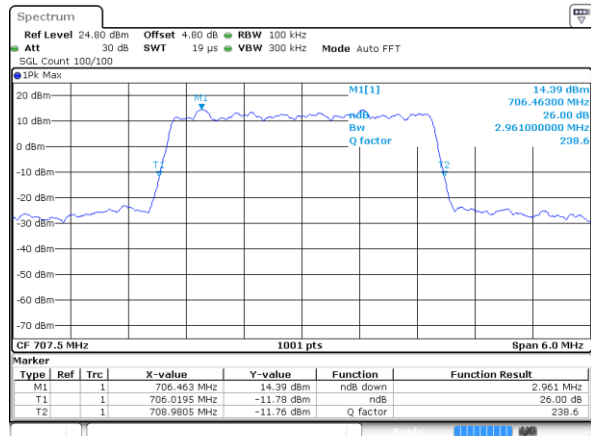
Date: 28 JAN 2020 04:12:25

Middle Channel / 3MHz / QPSK



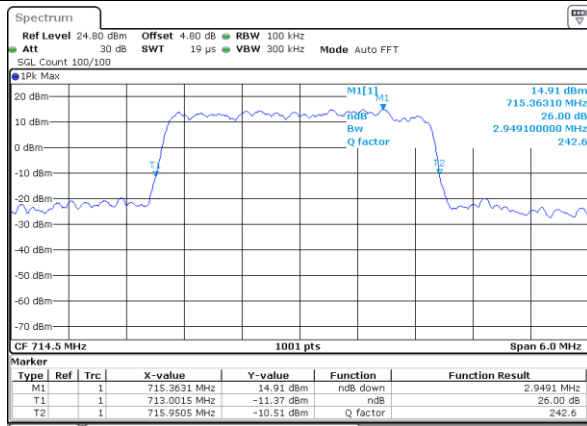
Date: 28 JAN 2020 04:12:05

Middle Channel / 3MHz / 16QAM



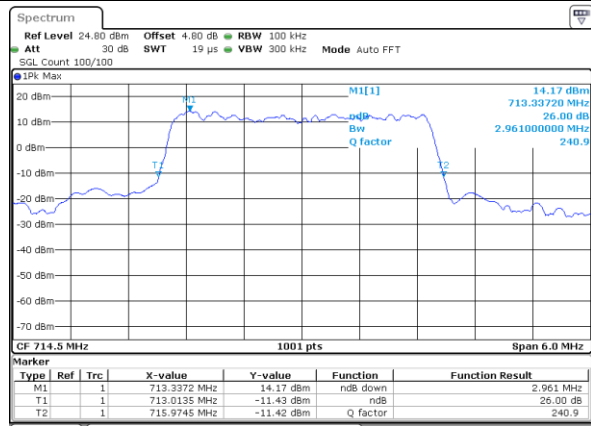
Date: 28 JAN 2020 04:12:15

Highest Channel / 3MHz / QPSK



Date: 28 JAN 2020 04:11:55

Highest Channel / 3MHz / 16QAM

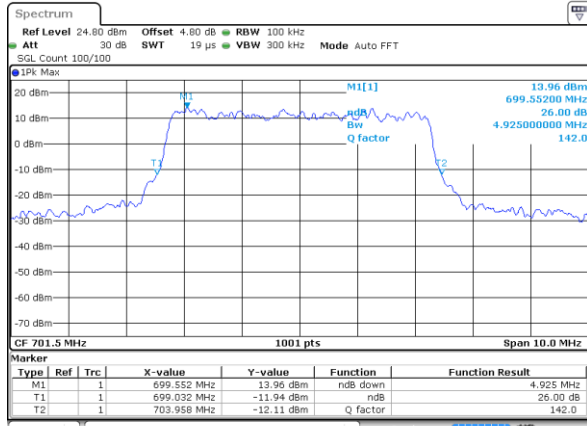


Date: 28 JAN 2020 04:11:45



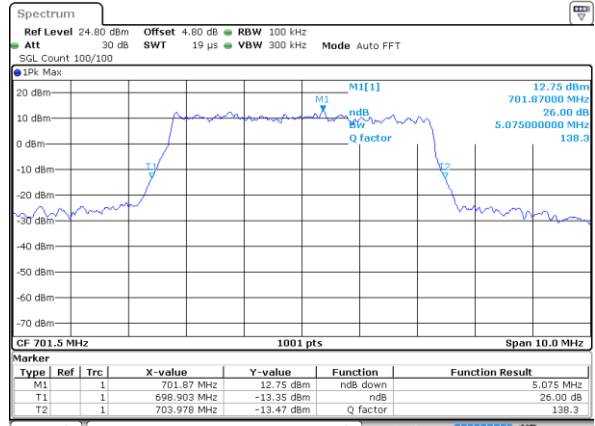
LTE Band 12

Lowest Channel / 5MHz / QPSK



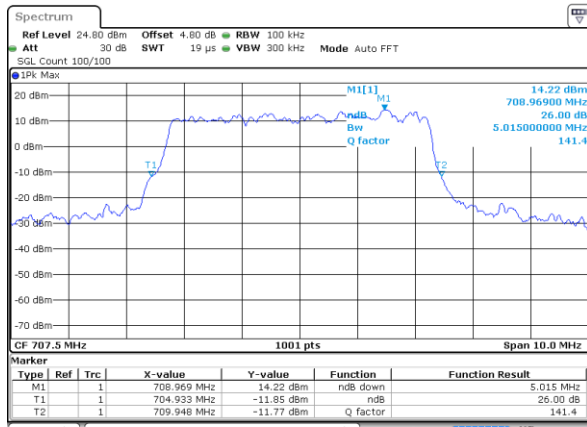
Date: 28 JAN 2020 04:29:00

Lowest Channel / 5MHz / 16QAM



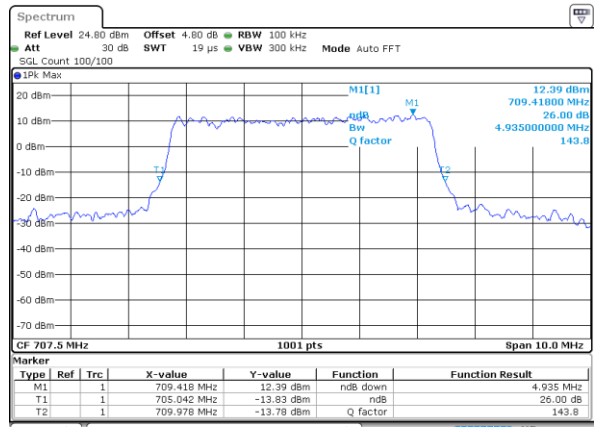
Date: 28 JAN 2020 04:28:50

Middle Channel / 5MHz / QPSK



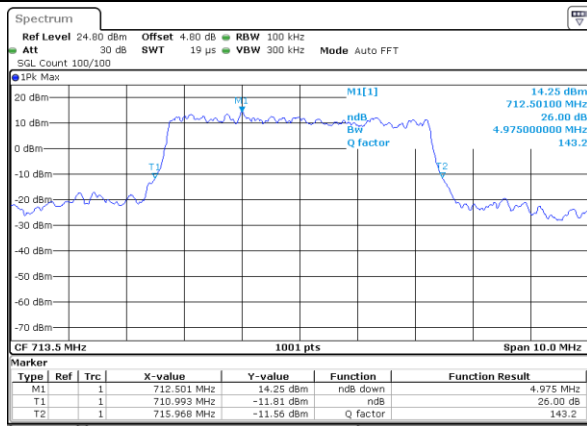
Date: 28 JAN 2020 04:28:30

Middle Channel / 5MHz / 16QAM



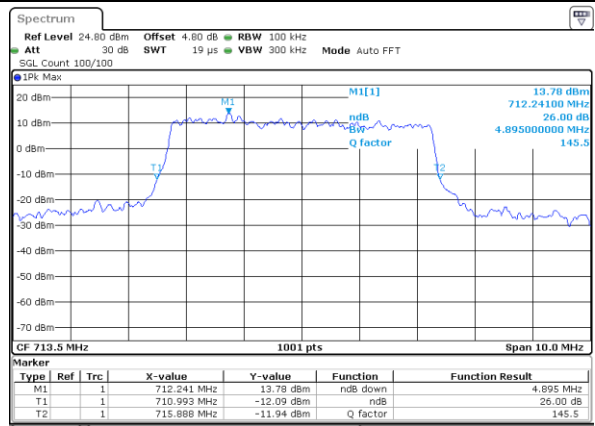
Date: 28 JAN 2020 04:28:40

Highest Channel / 5MHz / QPSK



Date: 28 JAN 2020 04:28:20

Highest Channel / 5MHz / 16QAM

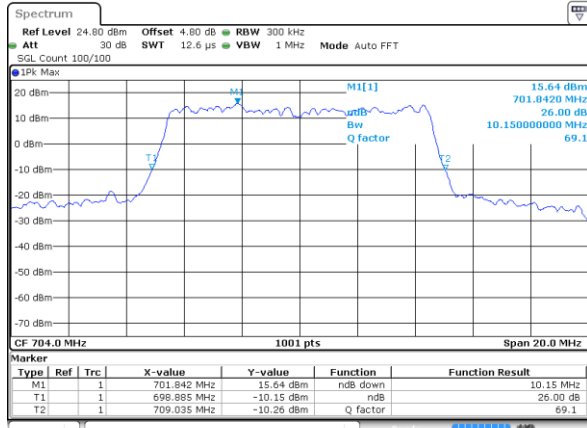


Date: 28 JAN 2020 04:28:10

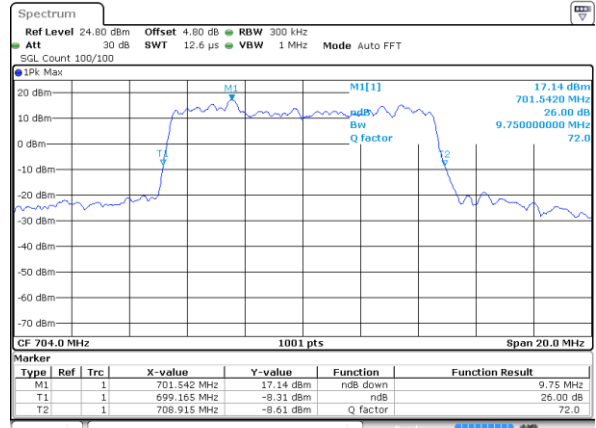


LTE Band 12

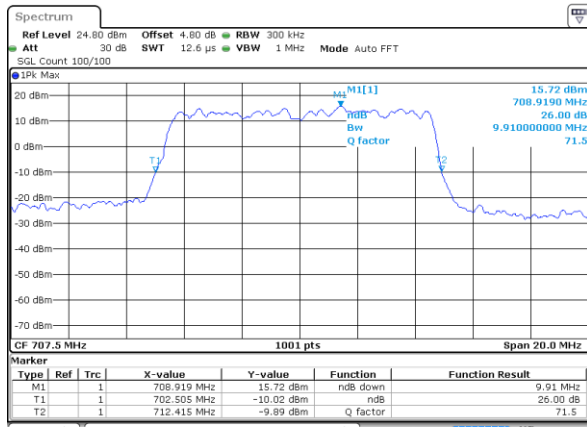
Lowest Channel / 10MHz / QPSK



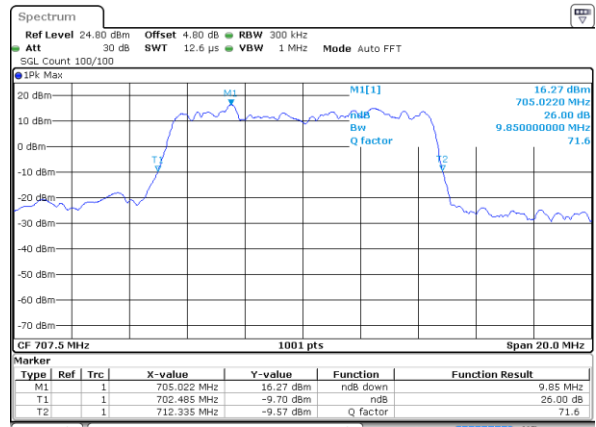
Lowest Channel / 10MHz / 16QAM



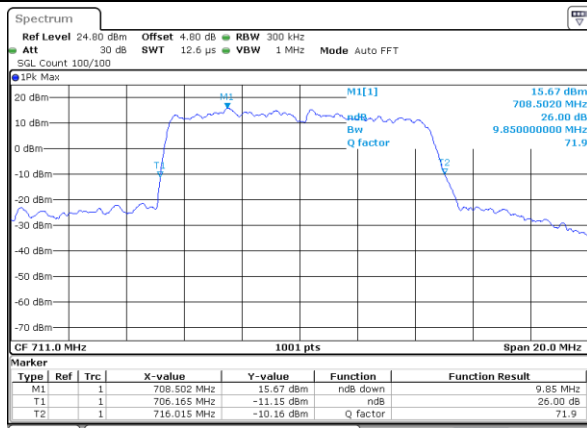
Middle Channel / 10MHz / QPSK



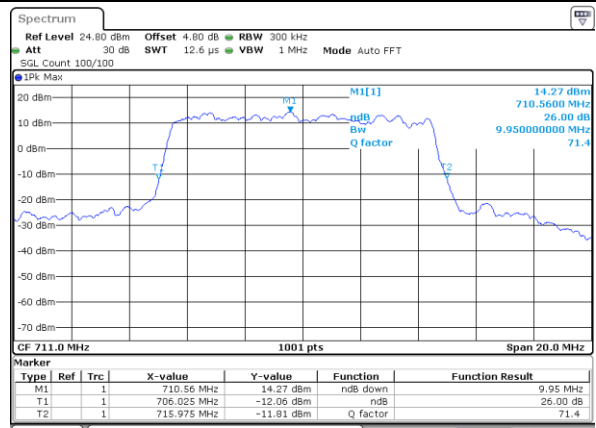
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



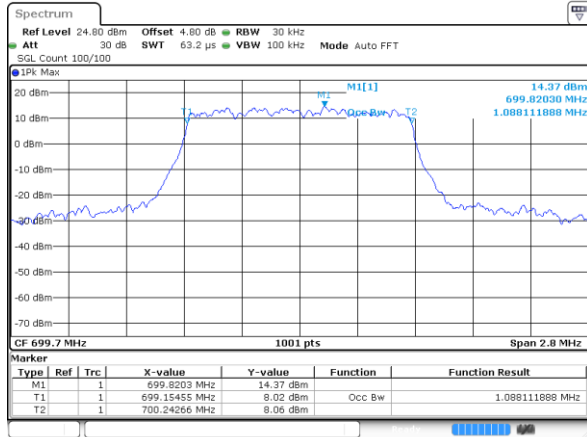
**Occupied Bandwidth**

Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.088	1.088	2.715	2.691	4.496	4.476	9.111	9.071
Middle CH	1.094	1.091	2.715	2.715	4.525	4.496	9.051	8.991
Highest CH	1.085	1.083	2.709	2.709	4.496	4.505	9.011	9.031

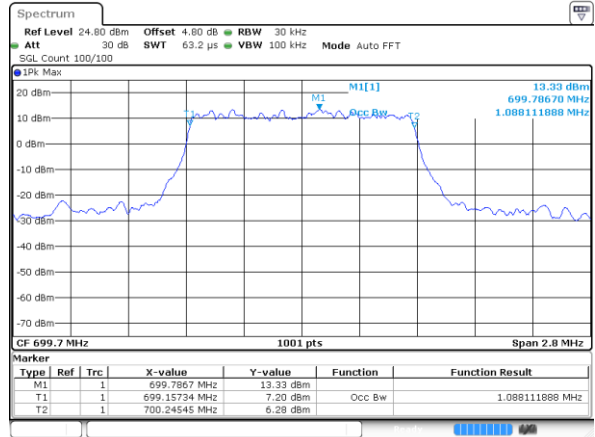


LTE Band 12

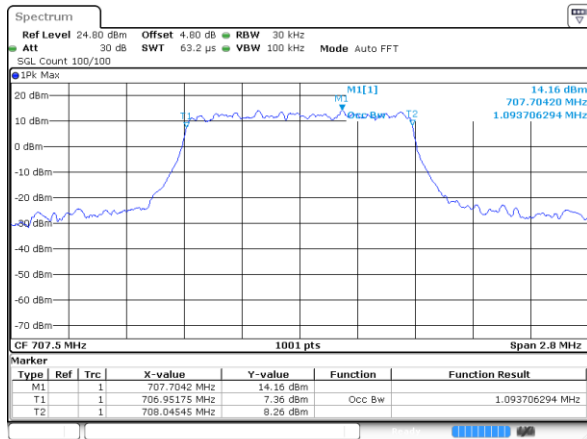
Lowest Channel / 1.4MHz / QPSK



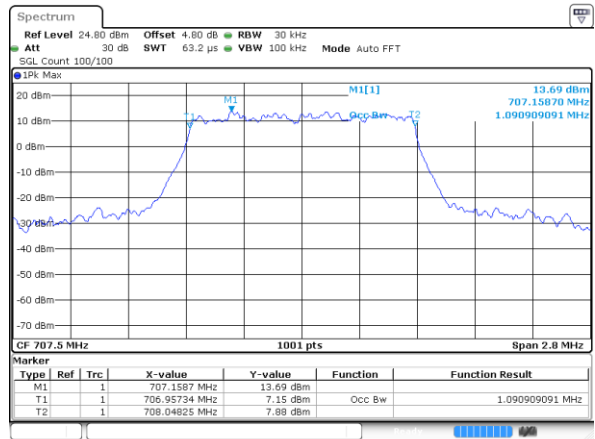
Lowest Channel / 1.4MHz / 16QAM



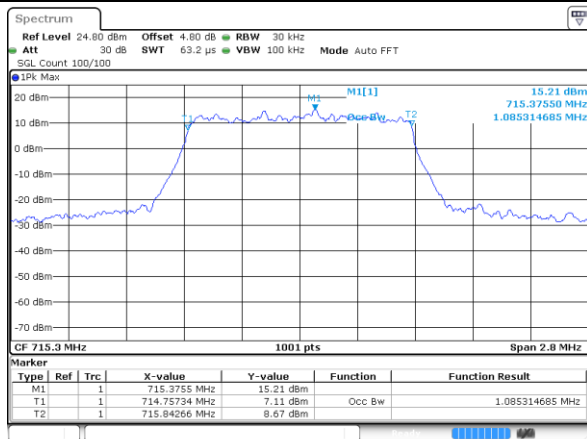
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM

