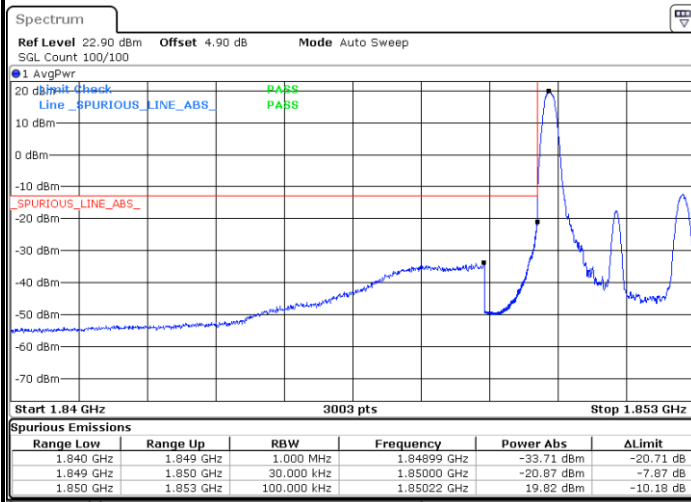


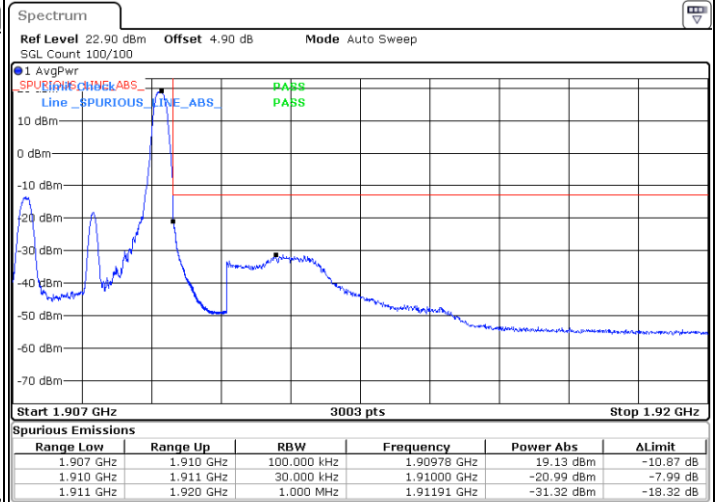


LTE Band 2 / 3MHz / 16QAM

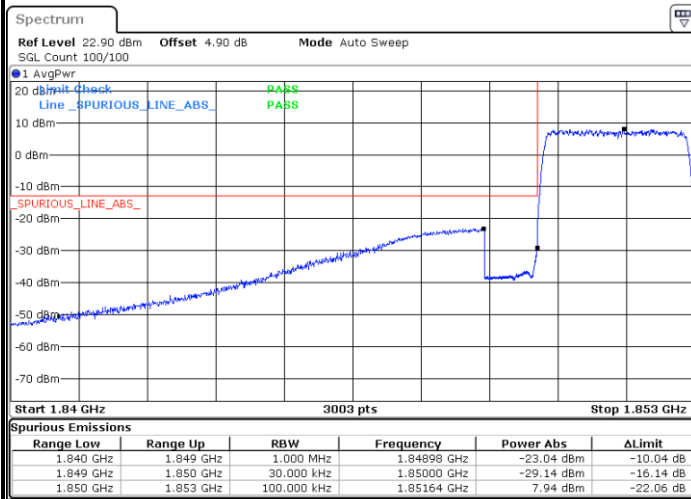
Lowest Band Edge / 1 RB



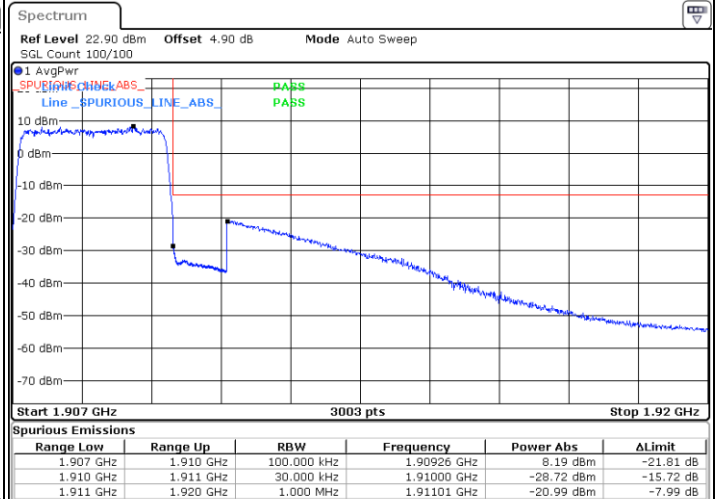
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



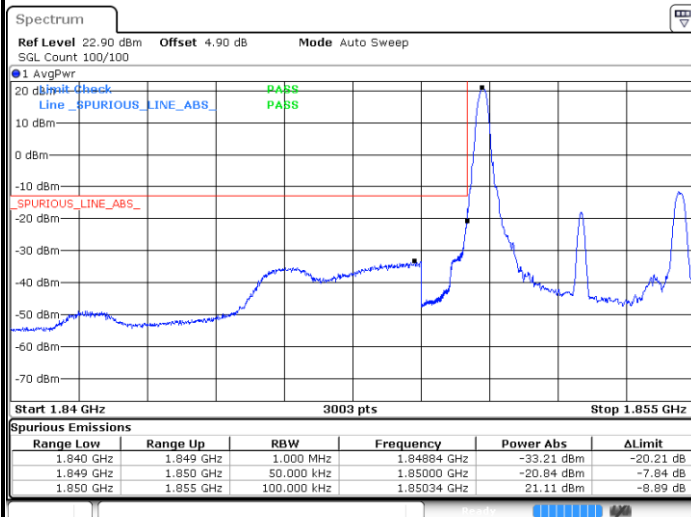
Highest Band Edge / Full RB



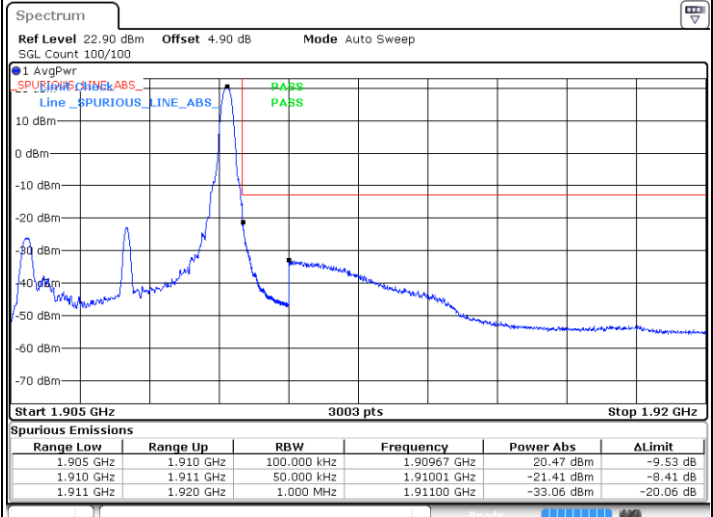


LTE Band 2 / 5MHz / QPSK

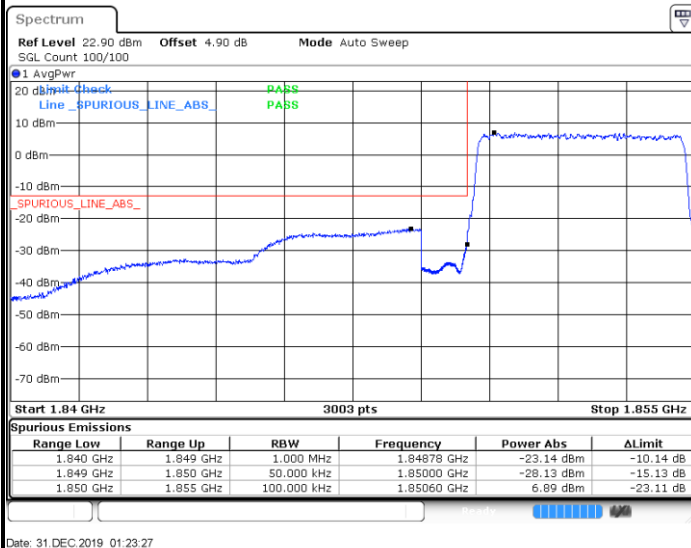
Lowest Band Edge / 1 RB



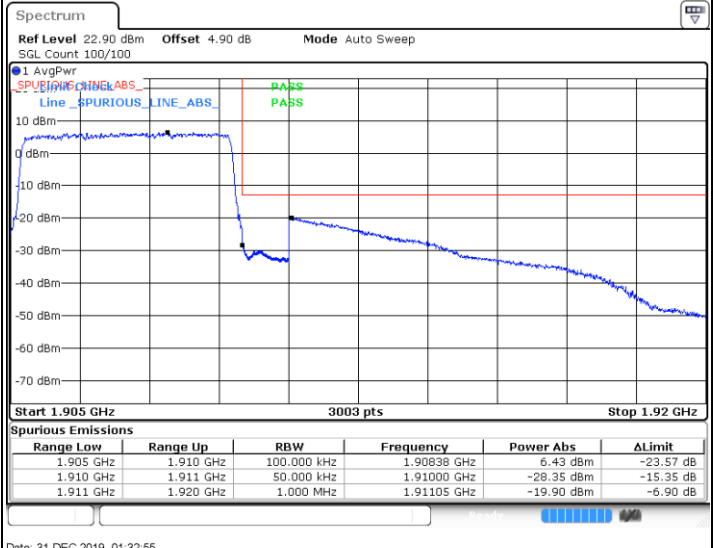
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



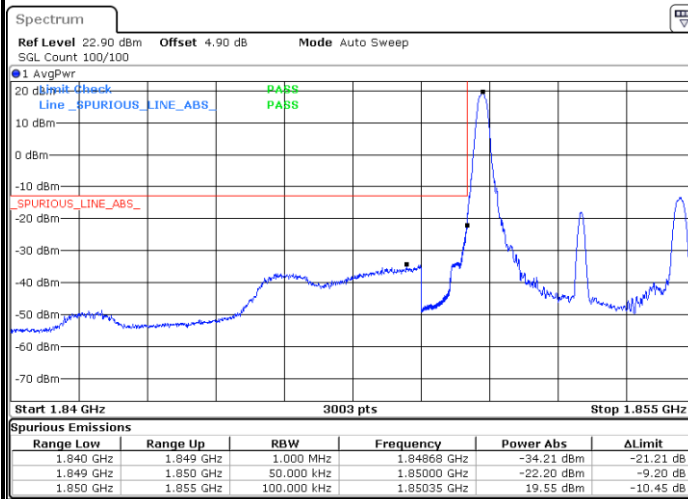
Highest Band Edge / Full RB



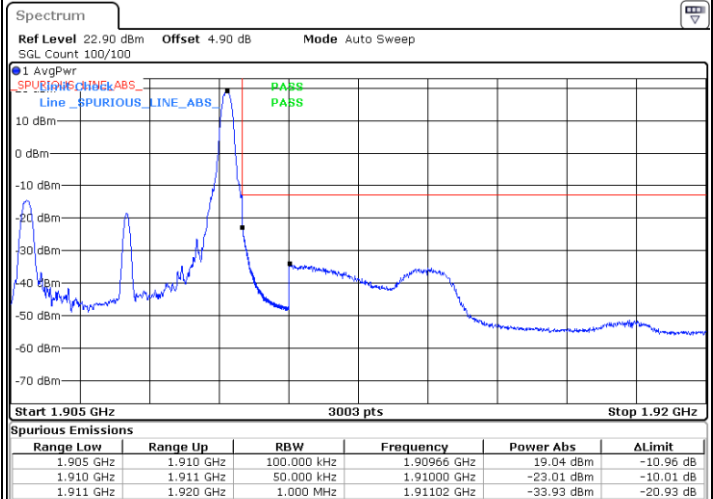


LTE Band 2 / 5MHz / 16QAM

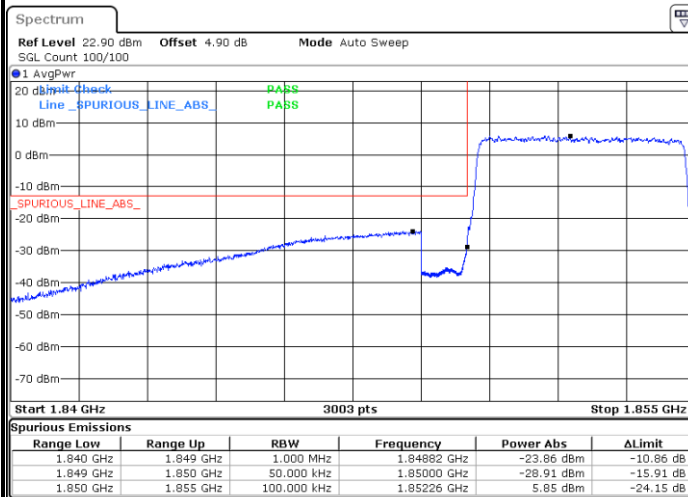
Lowest Band Edge / 1RB



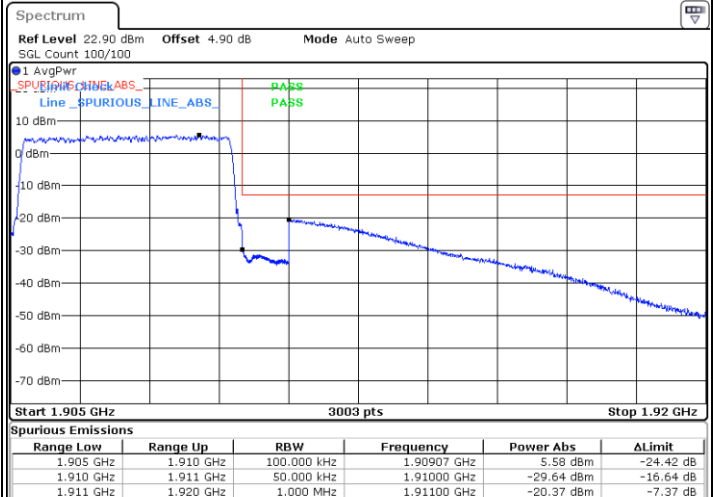
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



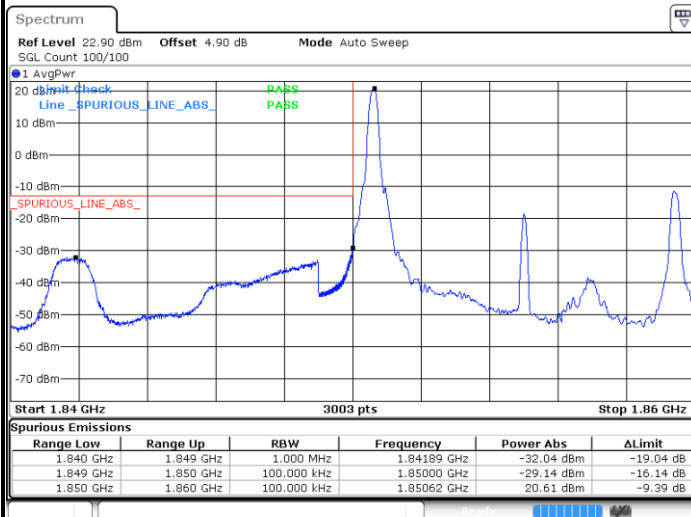
Highest Band Edge / Full RB



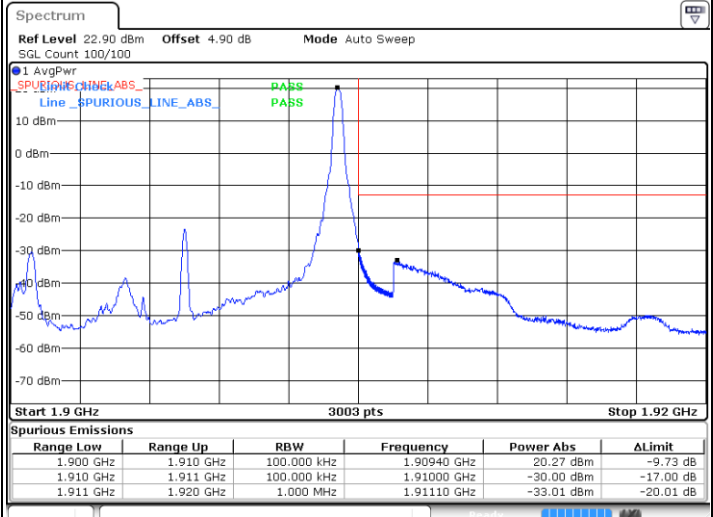


LTE Band 2 / 10MHz / QPSK

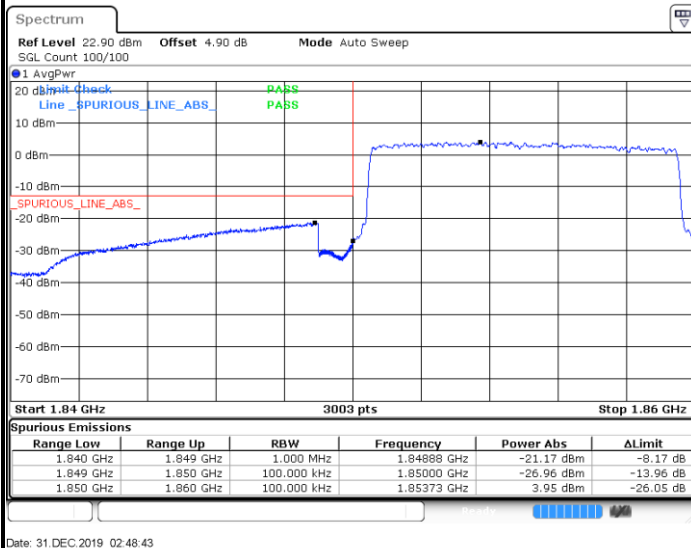
Lowest Band Edge / 1 RB



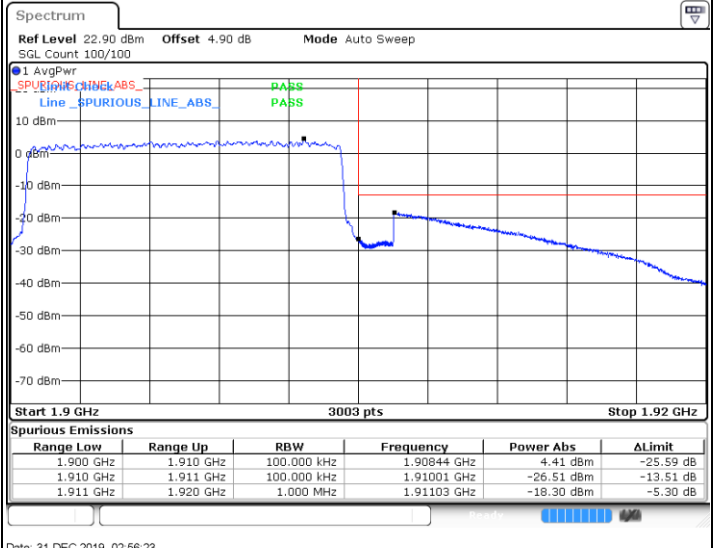
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



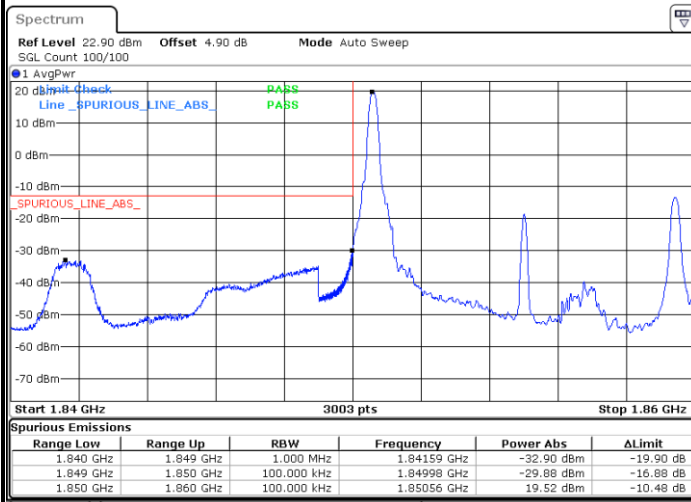
Highest Band Edge / Full RB



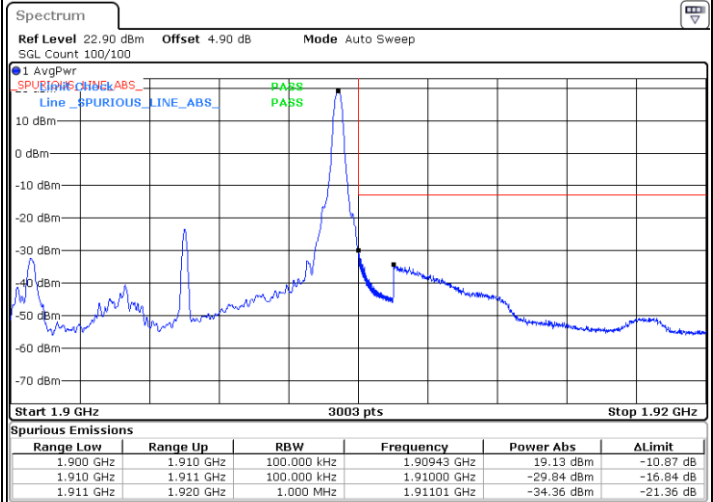


LTE Band 2 / 10MHz / 16QAM

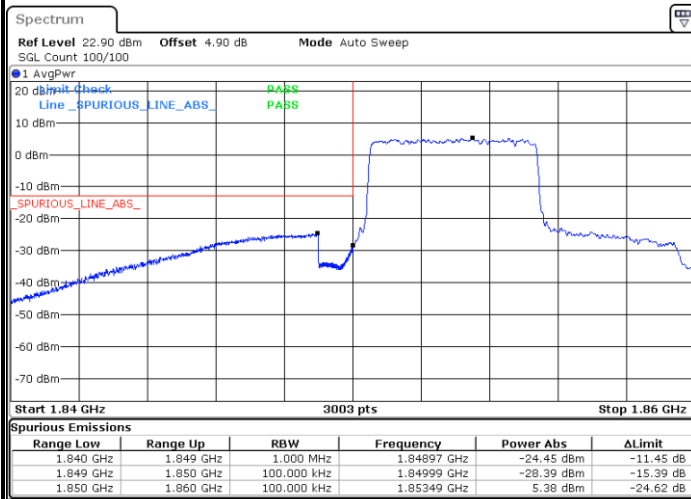
Lowest Band Edge / 1 RB



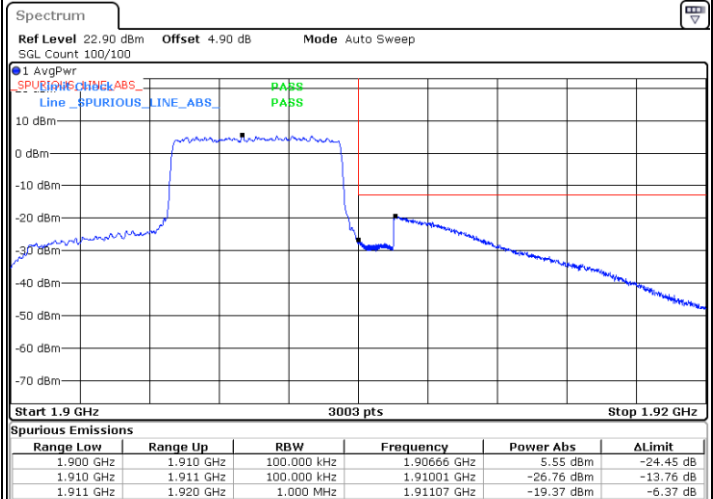
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



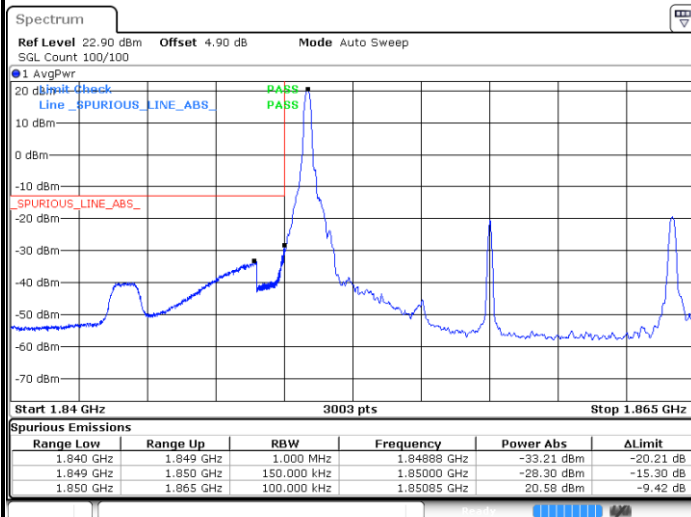
Highest Band Edge / Full RB



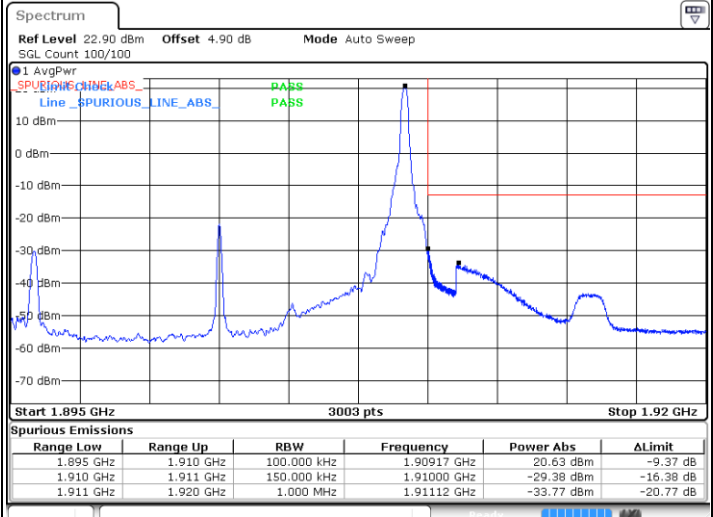


LTE Band 2 / 15MHz / QPSK

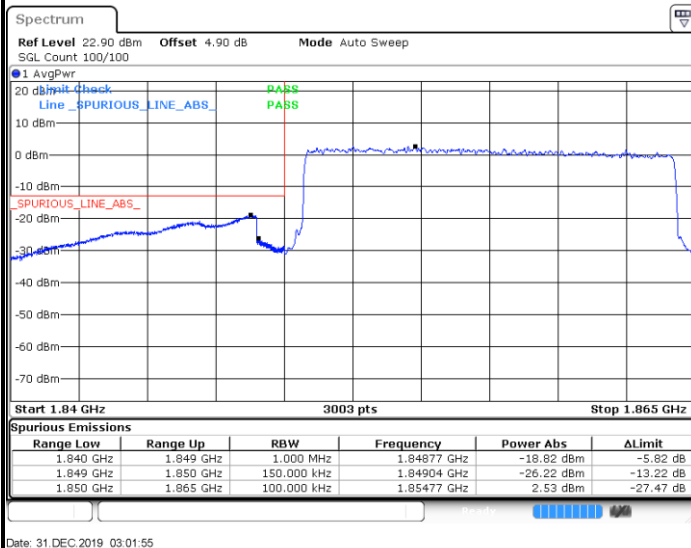
Lowest Band Edge / 1 RB



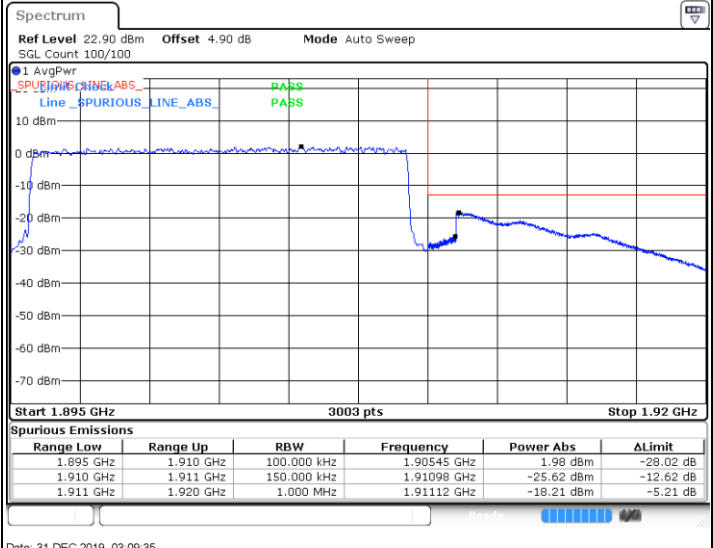
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



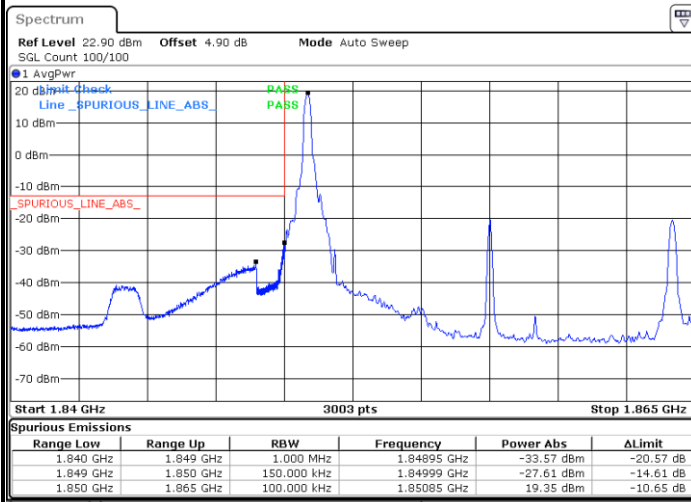
Highest Band Edge / Full RB



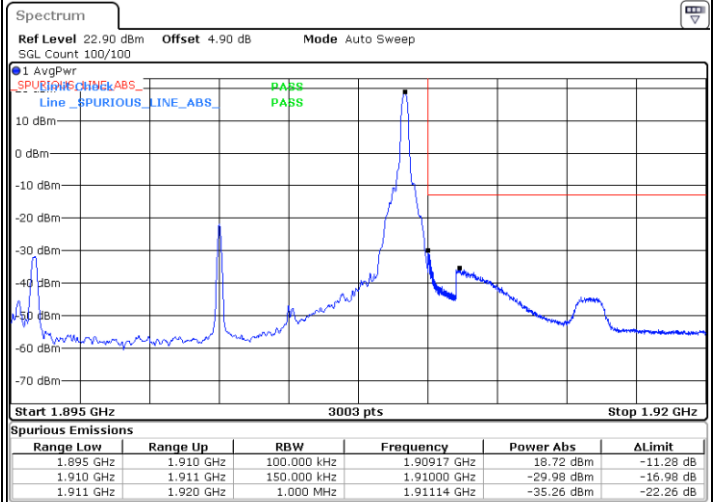


LTE Band 2 / 15MHz / 16QAM

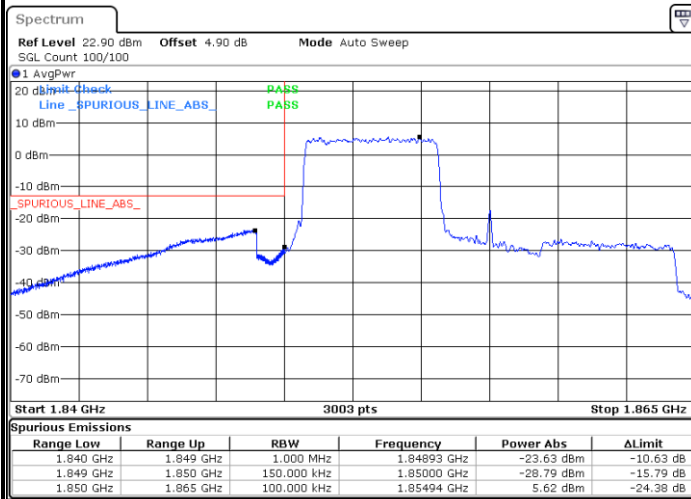
Lowest Band Edge / 1 RB



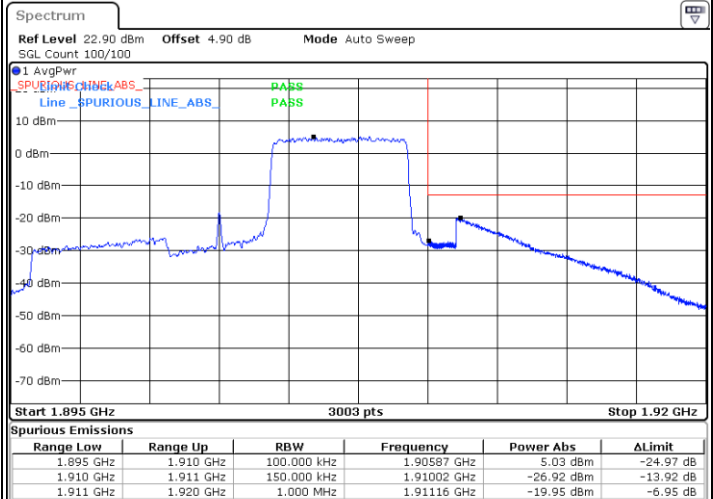
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



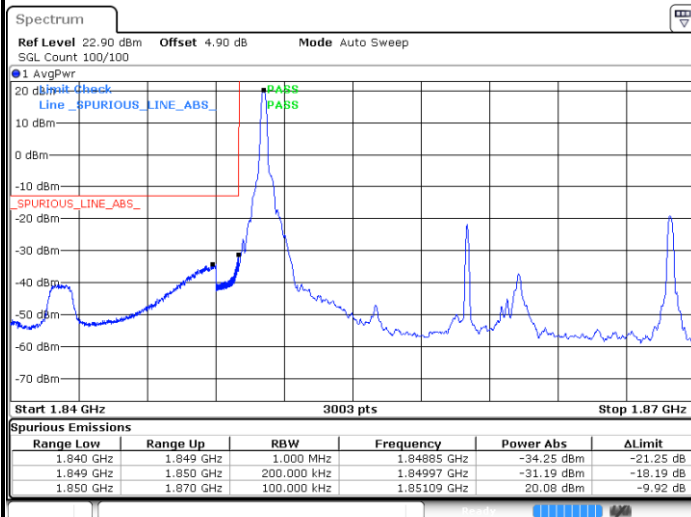
Highest Band Edge / Full RB



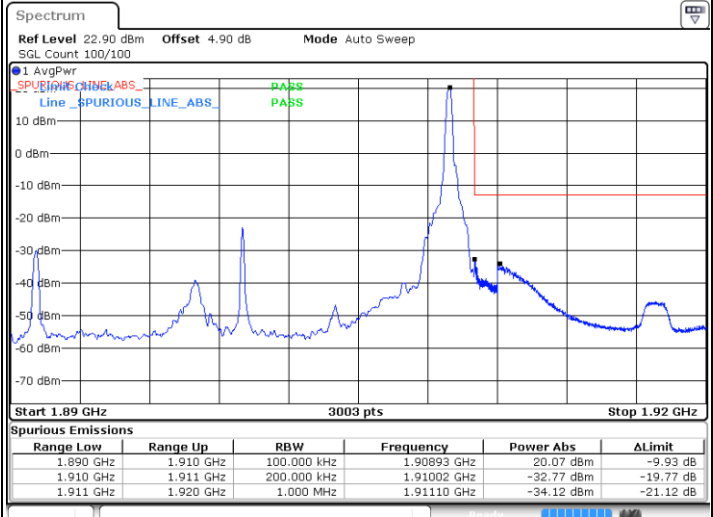


LTE Band 2 / 20MHz / QPSK

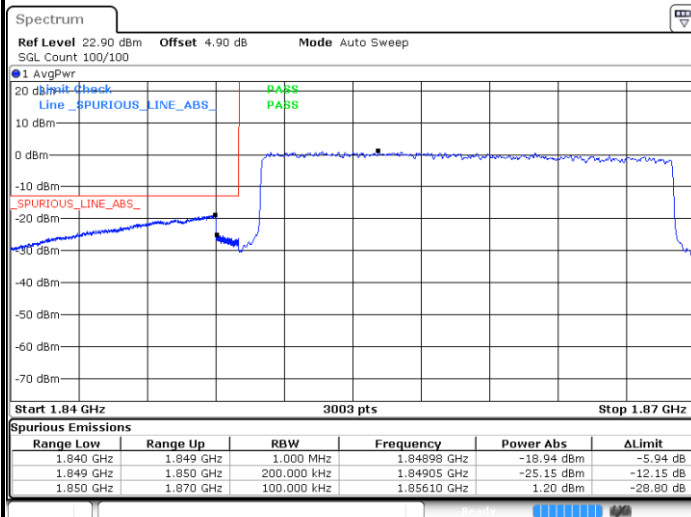
Lowest Band Edge / 1 RB



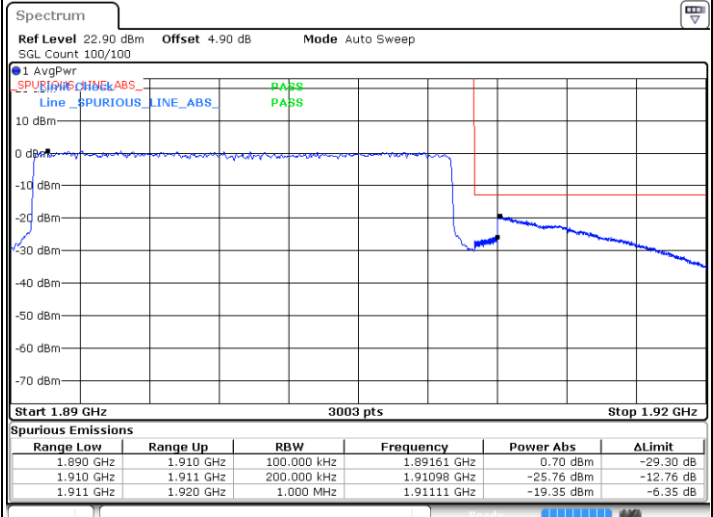
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



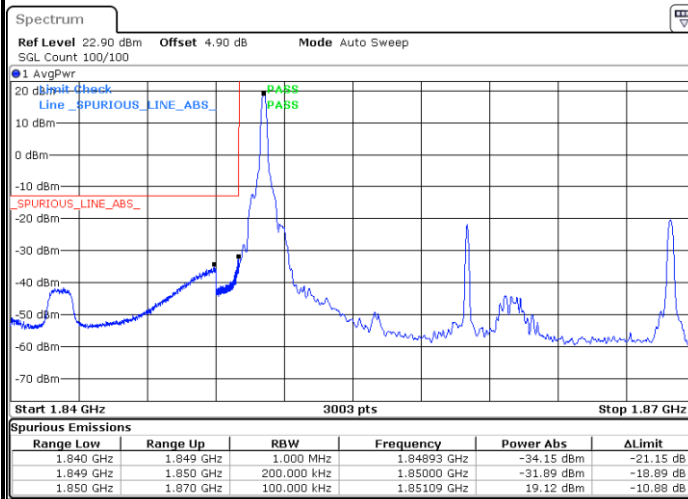
Highest Band Edge / Full RB



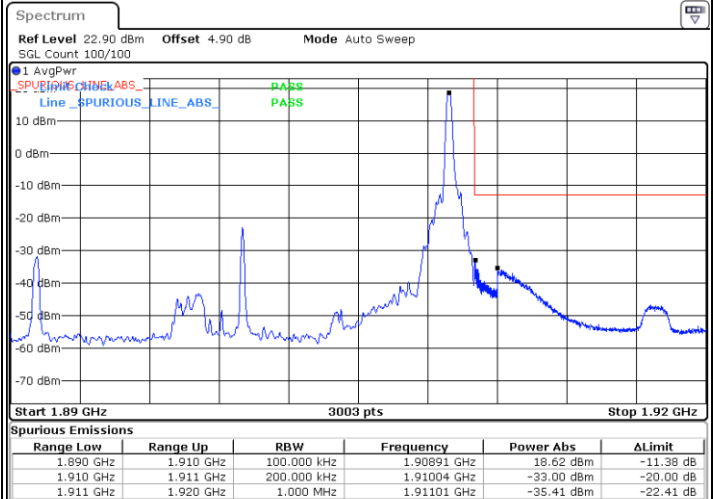


LTE Band 2 / 20MHz / 16QAM

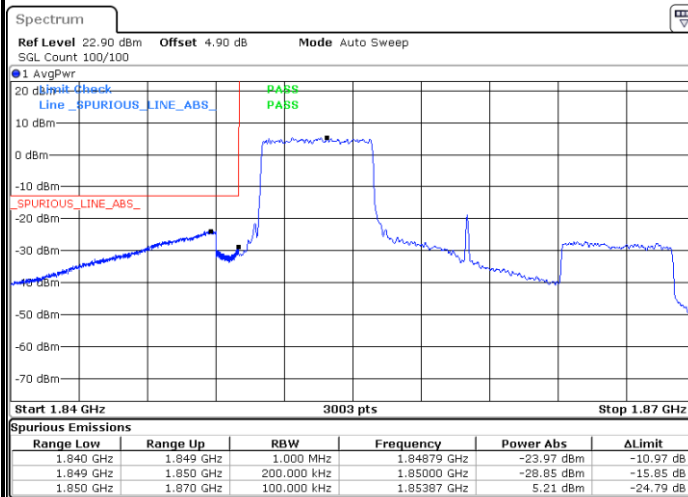
Lowest Band Edge / 1 RB



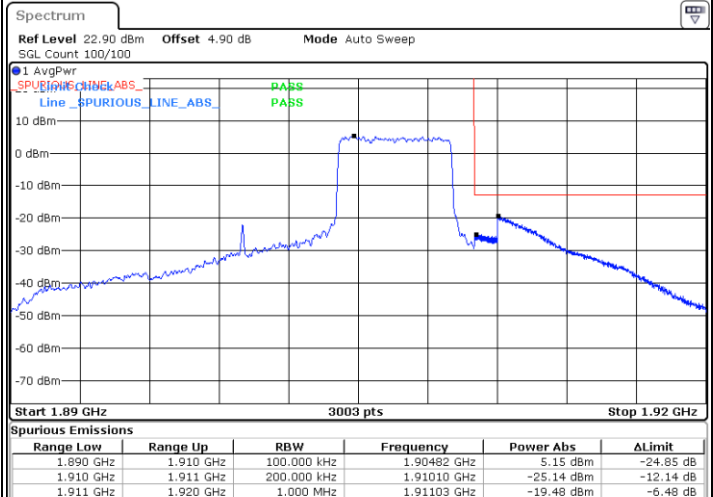
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

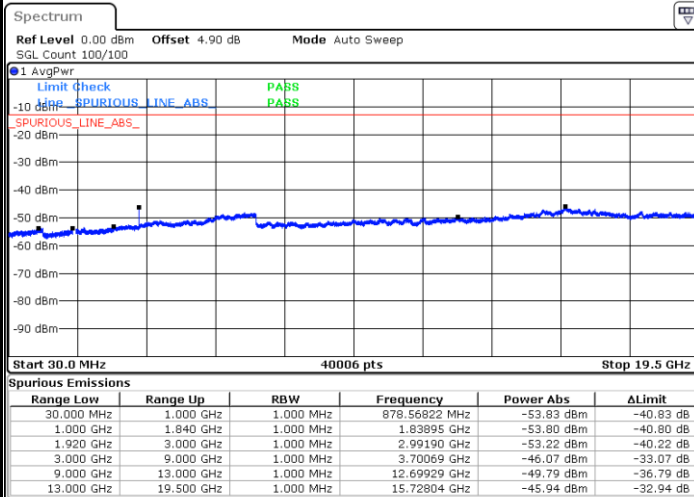




Conducted Spurious Emission

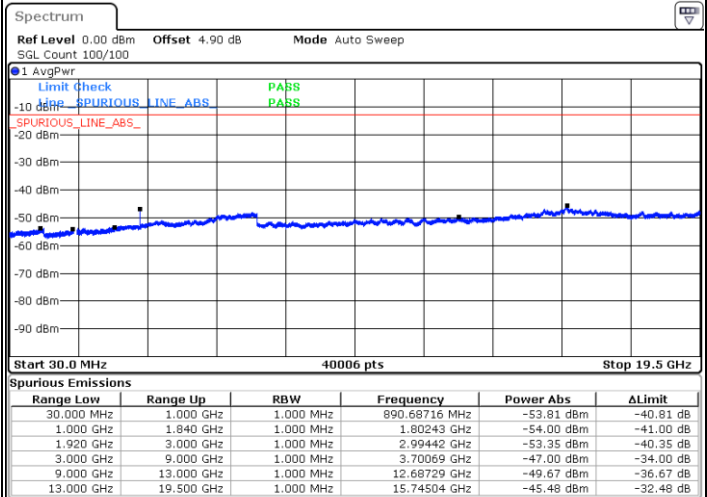
LTE Band 2 / 1.4MHz

Lowest Channel / QPSK



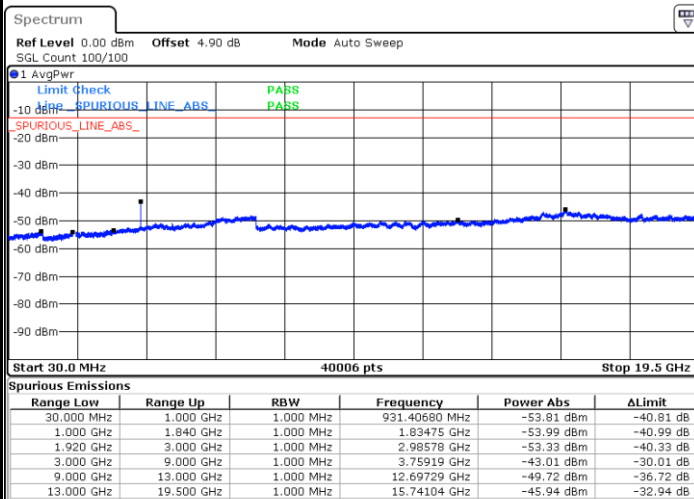
Date: 31 DEC 2019 00:52:36

Lowest Channel / 16QAM



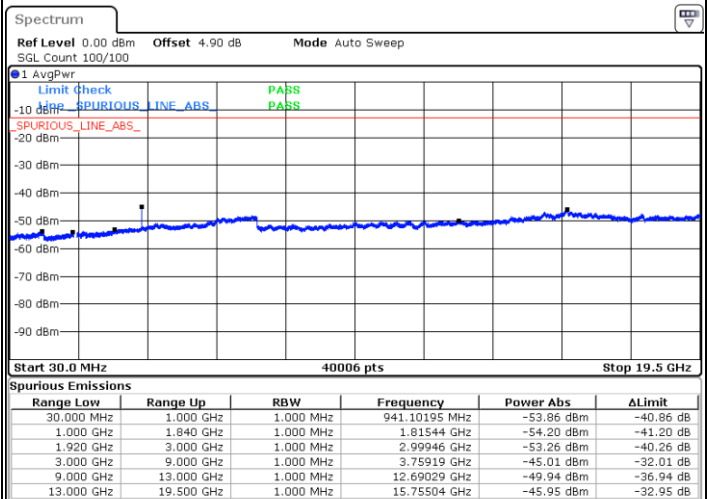
Date: 31 DEC 2019 00:53:31

Middle Channel / QPSK



Date: 31 DEC 2019 00:55:05

Middle Channel / 16QAM

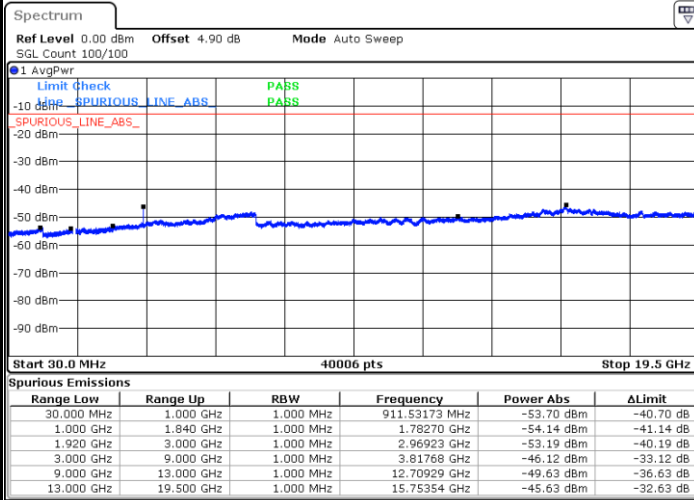


Date: 31 DEC 2019 00:56:00



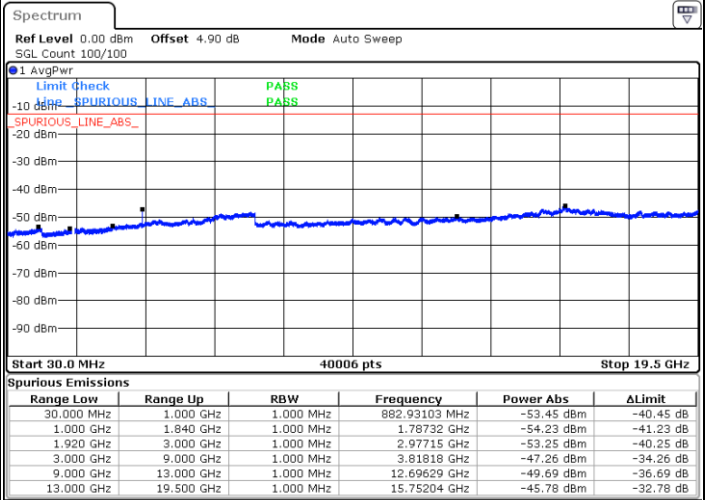
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 31 DEC 2019 01:02:04

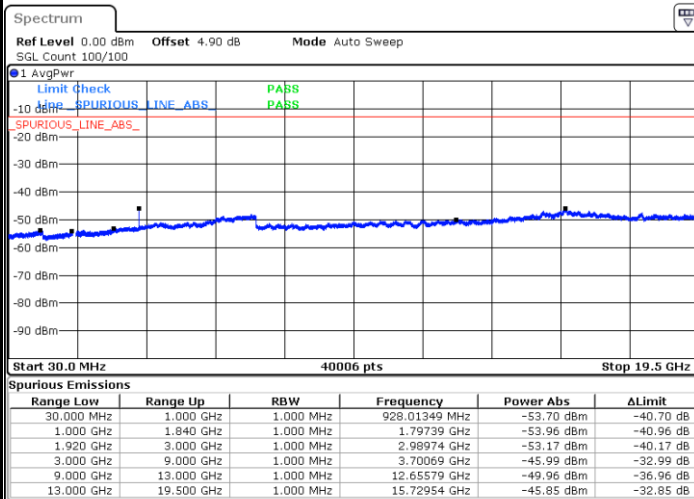
Highest Channel / 16QAM



Date: 31 DEC 2019 01:02:58

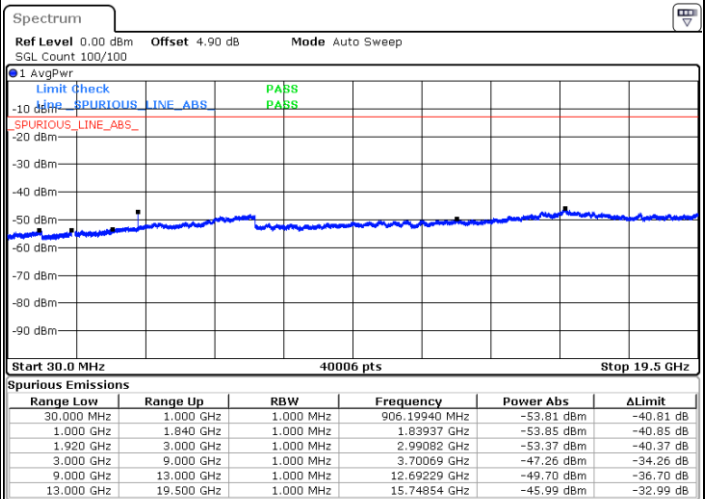
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 31 DEC 2019 01:09:02

Lowest Channel / 16QAM

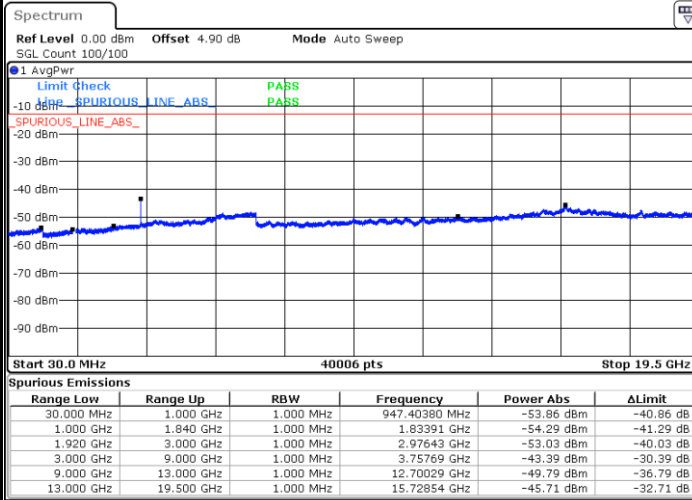


Date: 31 DEC 2019 01:09:57



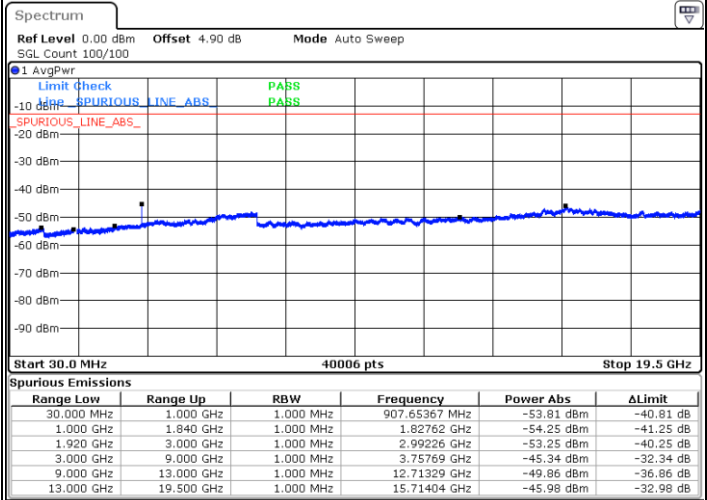
LTE Band 2 / 3MHz

Middle Channel / QPSK



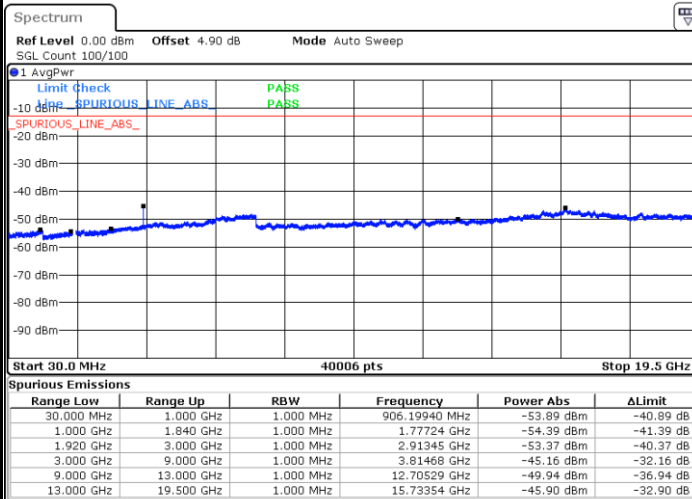
Date: 31 DEC 2019 01:11:31

Middle Channel / 16QAM



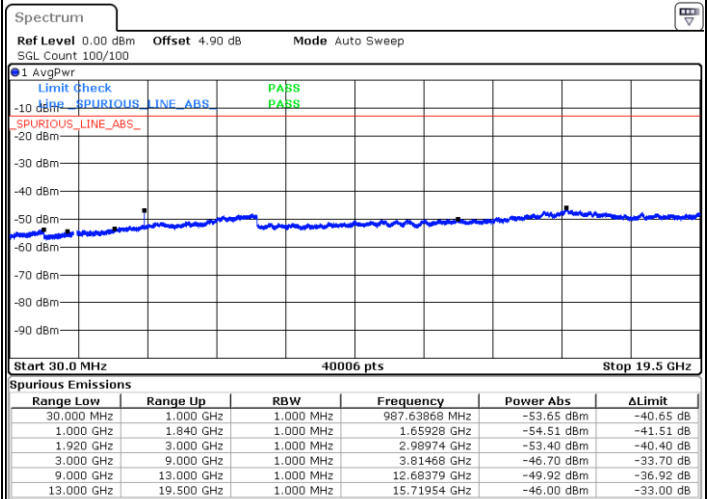
Date: 31 DEC 2019 01:12:26

Highest Channel / QPSK



Date: 31 DEC 2019 01:18:30

Highest Channel / 16QAM

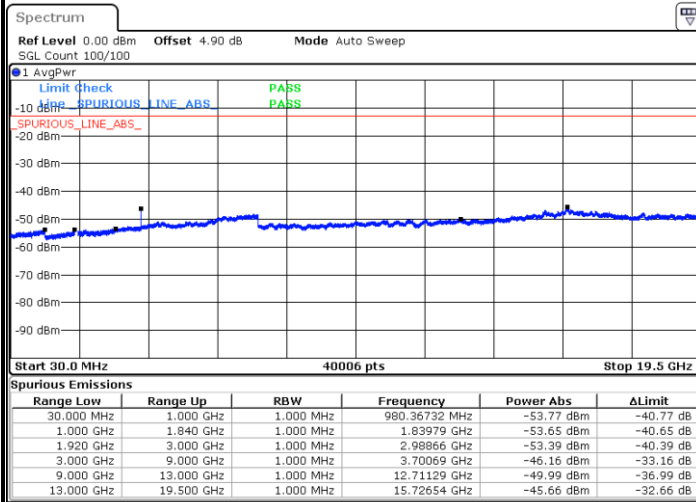


Date: 31 DEC 2019 01:19:24



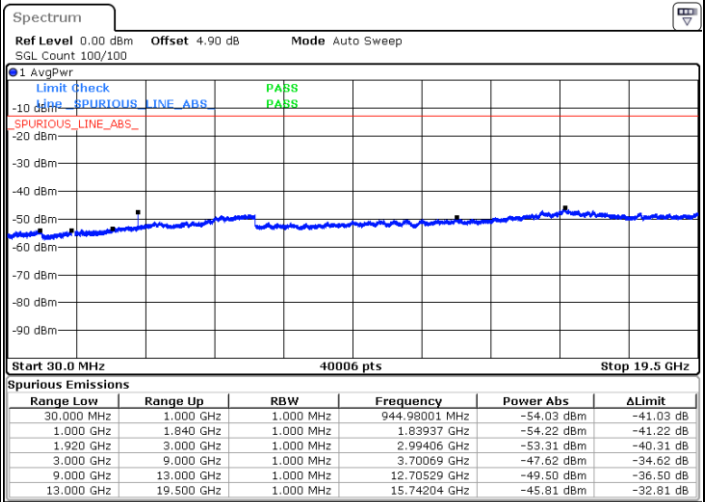
LTE Band 2 / 5MHz

Lowest Channel / QPSK



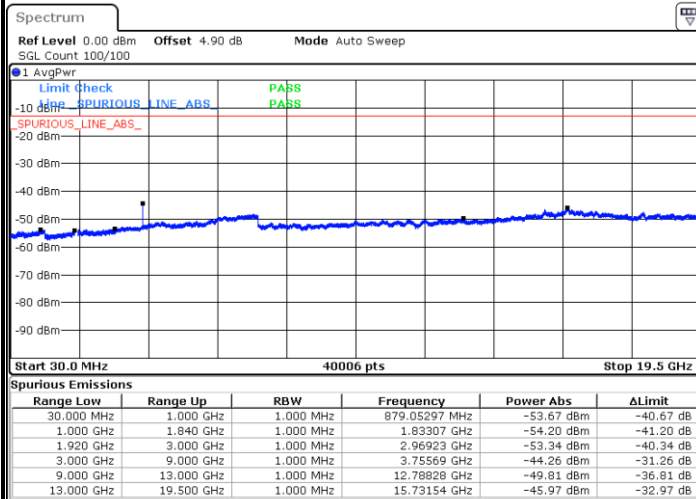
Date: 31 DEC 2019 01:25:28

Lowest Channel / 16QAM



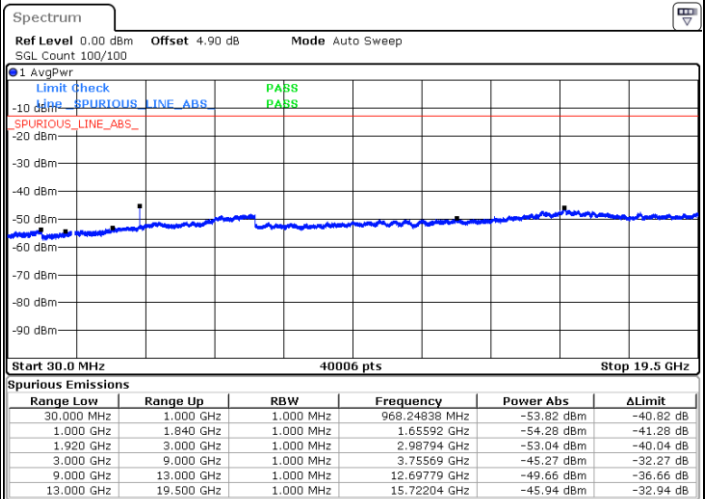
Date: 31 DEC 2019 01:26:23

Middle Channel / QPSK



Date: 31 DEC 2019 01:27:57

Middle Channel / 16QAM

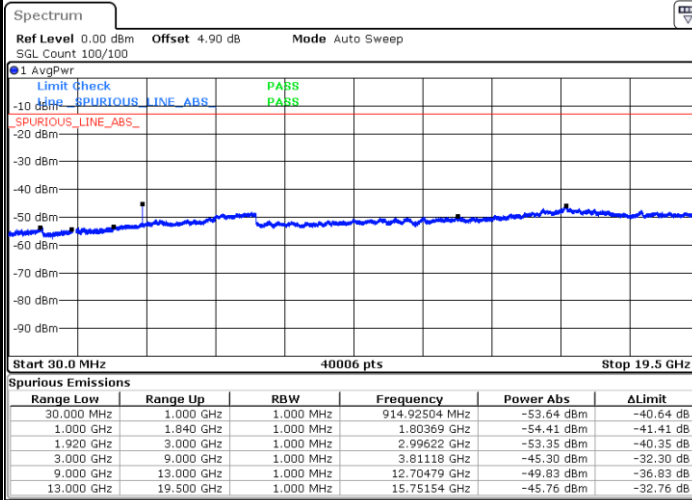


Date: 31 DEC 2019 01:28:52



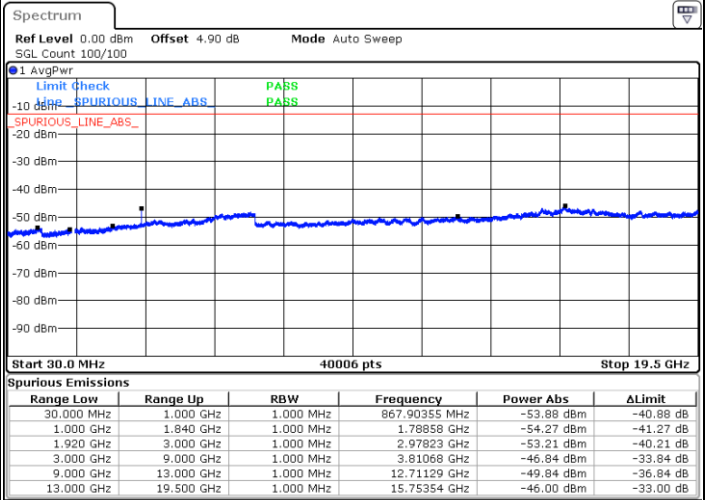
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 31 DEC 2019 01:34:56

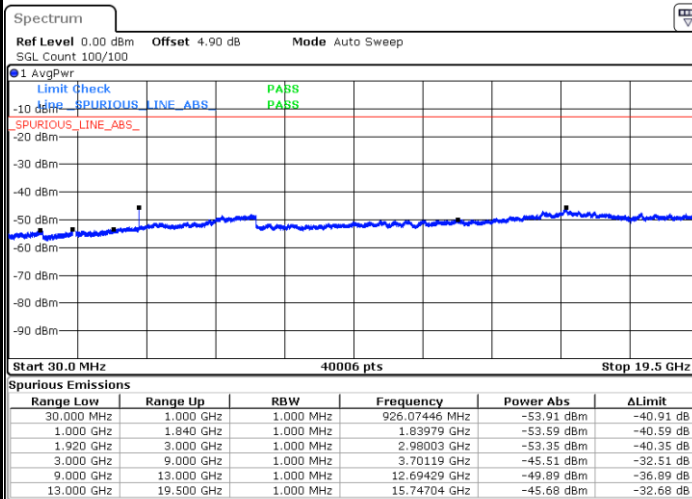
Highest Channel / 16QAM



Date: 31 DEC 2019 01:35:50

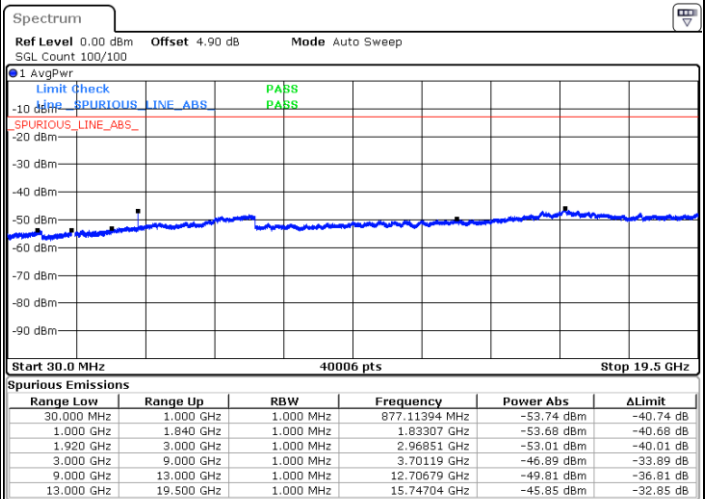
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 31 DEC 2019 02:49:37

Lowest Channel / 16QAM

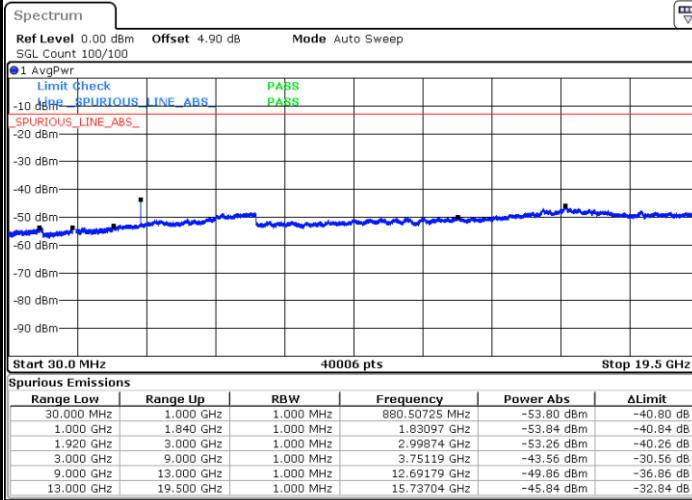


Date: 31 DEC 2019 02:50:31



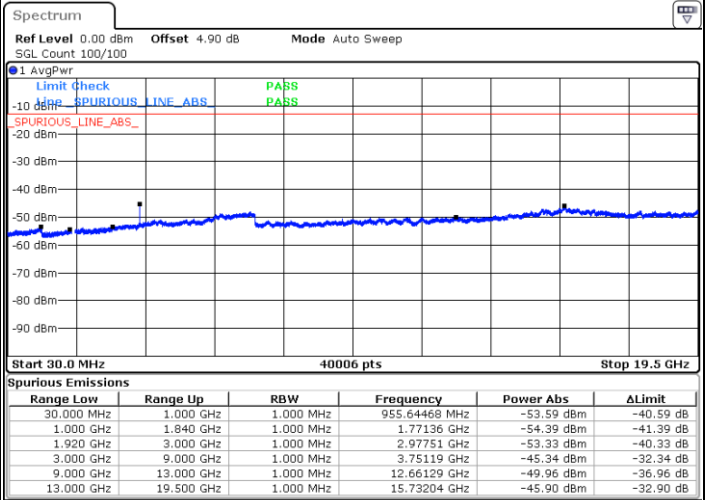
LTE Band 2 / 10MHz

Middle Channel / QPSK



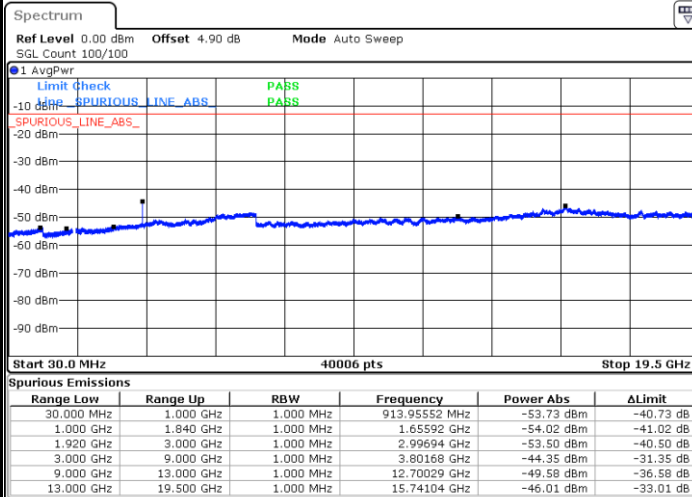
Date: 31 DEC 2019 02:51:46

Middle Channel / 16QAM



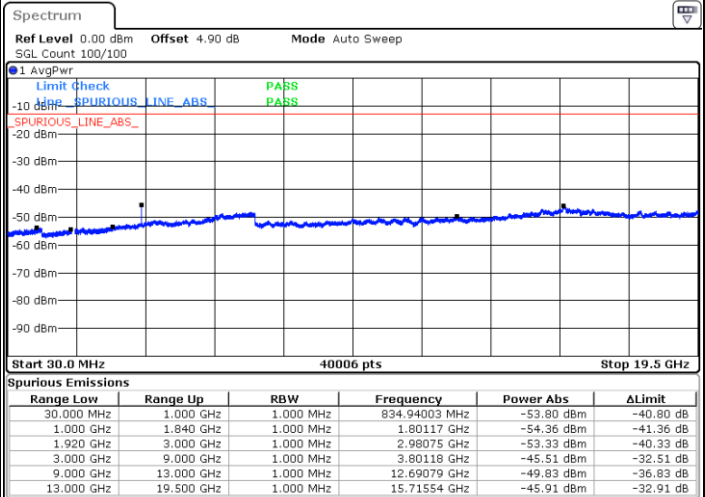
Date: 31 DEC 2019 02:52:40

Highest Channel / QPSK



Date: 31 DEC 2019 02:57:17

Highest Channel / 16QAM

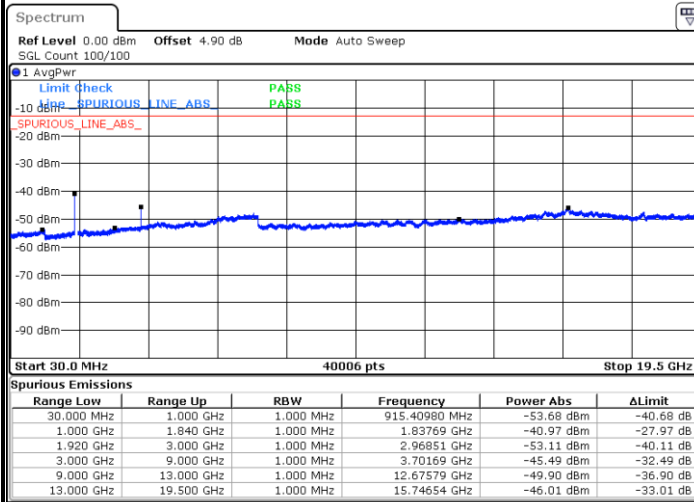


Date: 31 DEC 2019 02:58:11



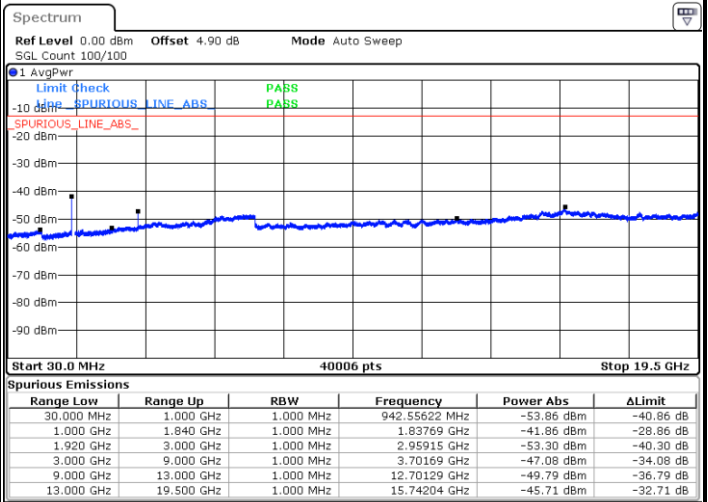
LTE Band 2 / 15MHz

Lowest Channel / QPSK



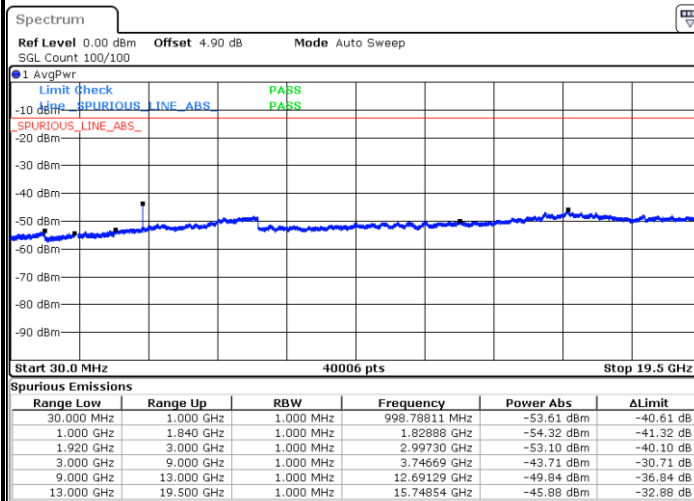
Date: 31 DEC 2019 03:02:48

Lowest Channel / 16QAM



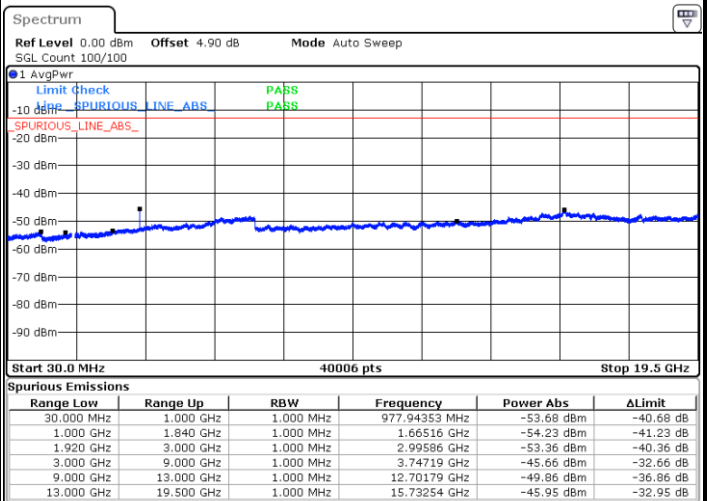
Date: 31 DEC 2019 03:03:42

Middle Channel / QPSK



Date: 31 DEC 2019 03:04:57

Middle Channel / 16QAM

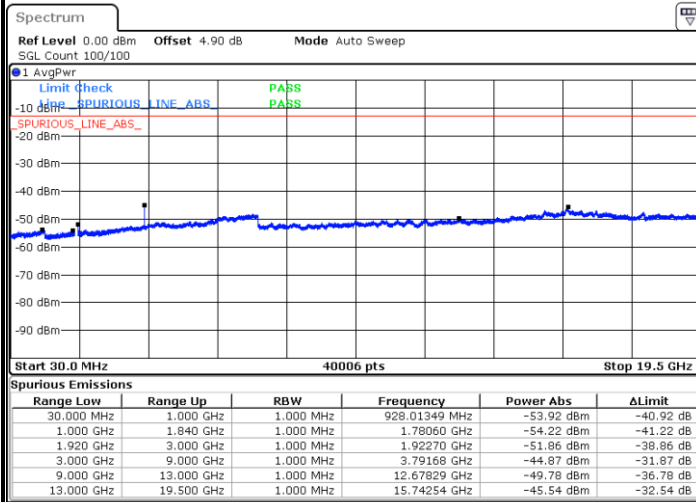


Date: 31 DEC 2019 03:05:51



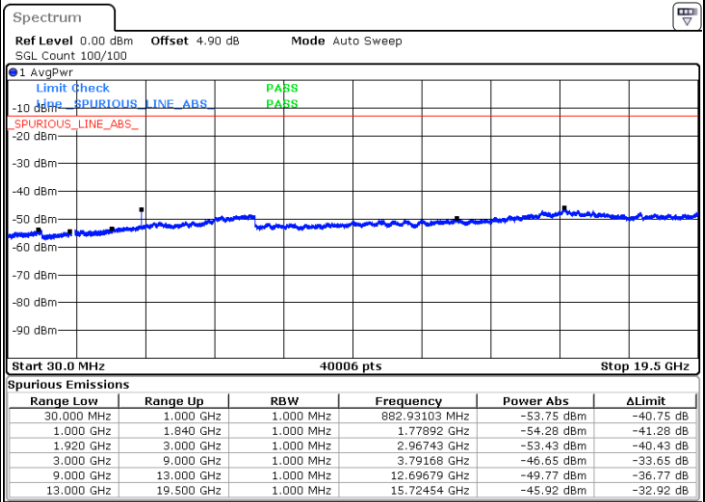
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 31 DEC 2019 03:10:28

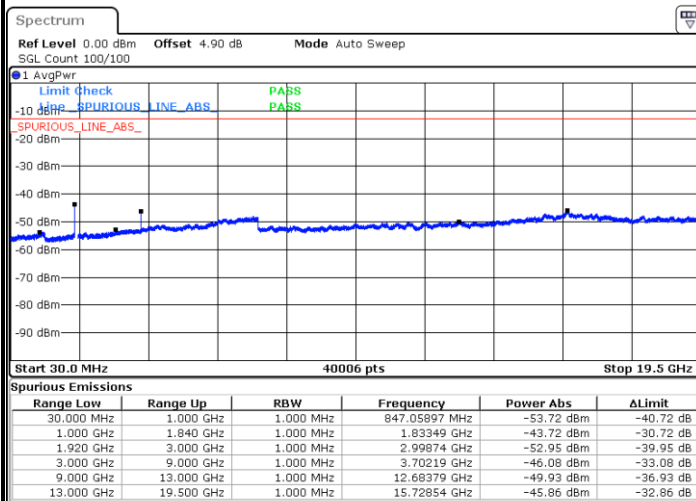
Highest Channel / 16QAM



Date: 31 DEC 2019 03:11:23

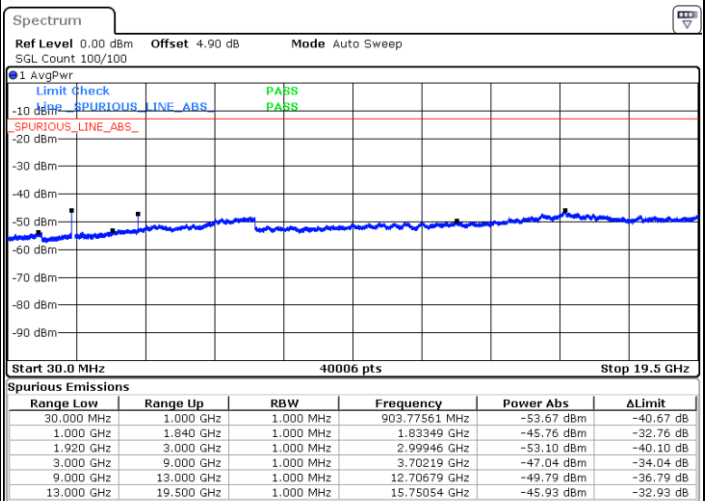
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 31 DEC 2019 03:15:59

Lowest Channel / 16QAM

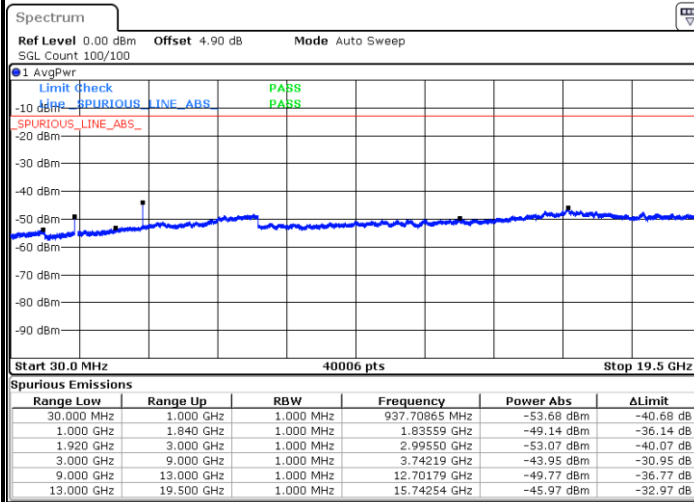


Date: 31 DEC 2019 03:16:53



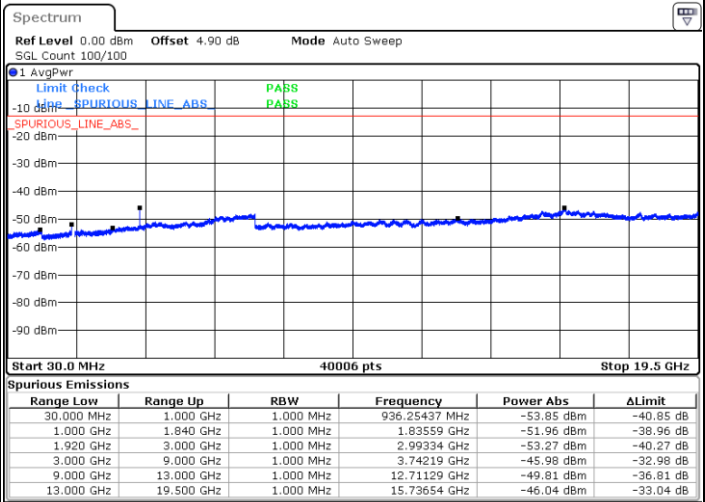
LTE Band 2 / 20MHz

Middle Channel / QPSK



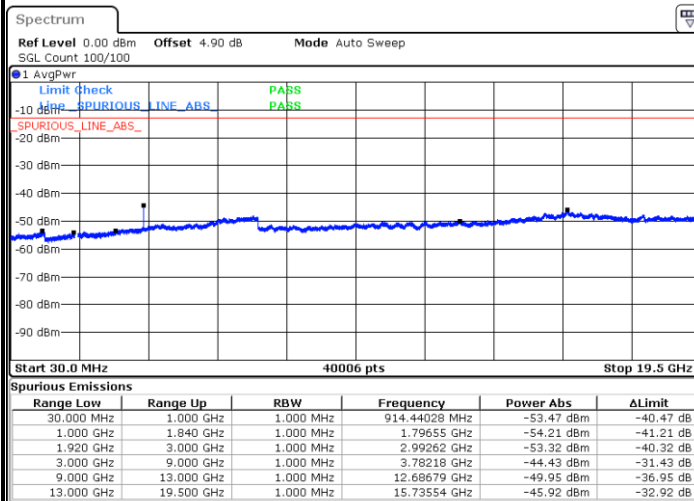
Date: 31 DEC 2019 03:18:07

Middle Channel / 16QAM



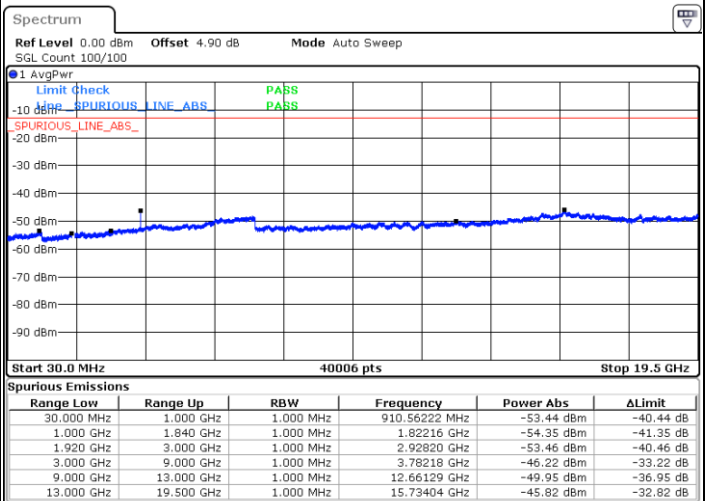
Date: 31 DEC 2019 03:19:02

Highest Channel / QPSK



Date: 31 DEC 2019 03:23:38

Highest Channel / 16QAM



Date: 31 DEC 2019 03:24:33

**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	0.0014	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =13.2 V. ; Battery End Point (BEP) =10.5 V. ; Maximum Voltage =33.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

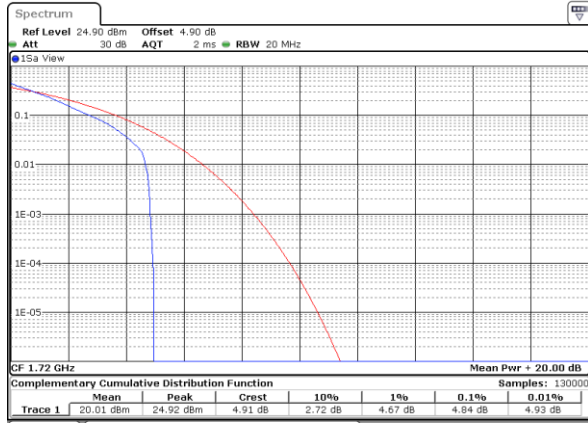
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.84	5.10	5.88	6.00	PASS
Middle CH	4.87	5.39	5.45	6.17	
Highest CH	4.90	4.93	5.54	6.20	

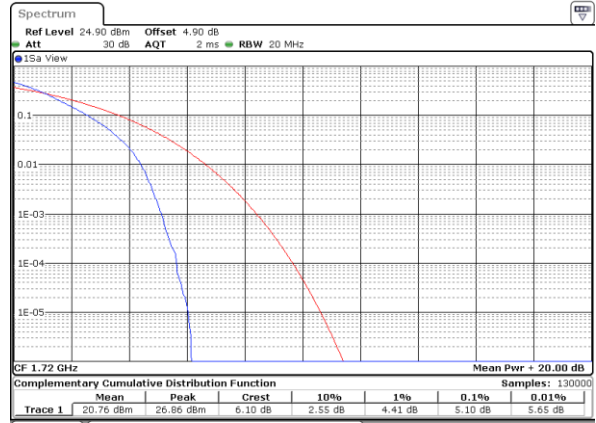


LTE Band 4 / 20MHz / QPSK

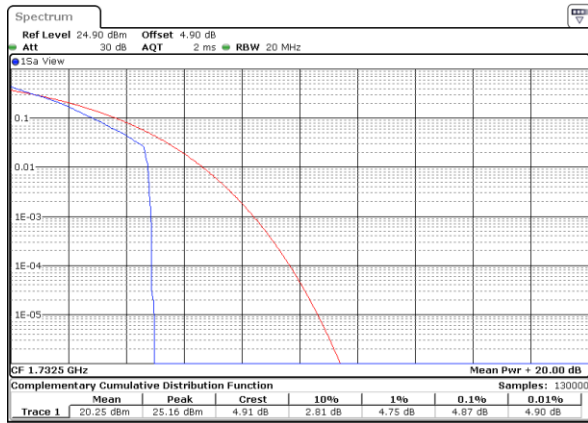
Lowest Channel / 1RB



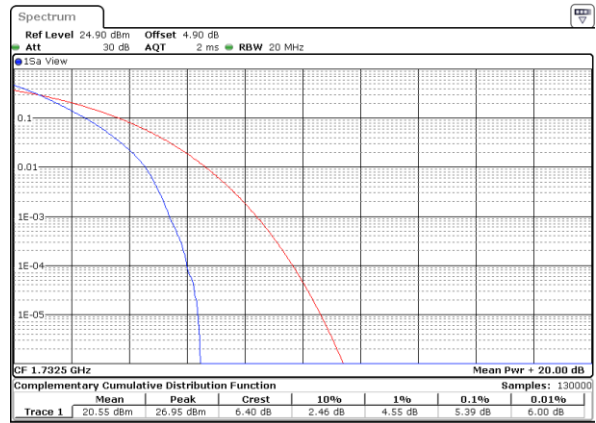
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





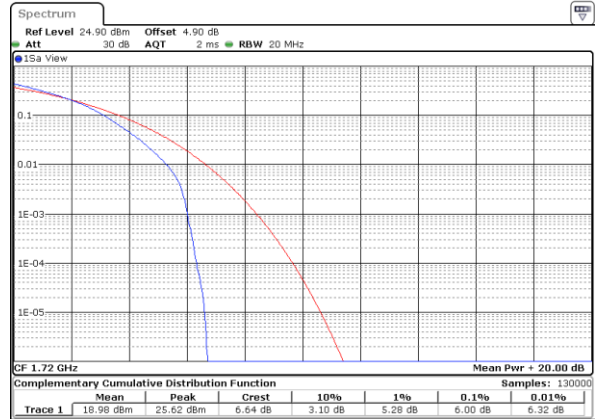
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



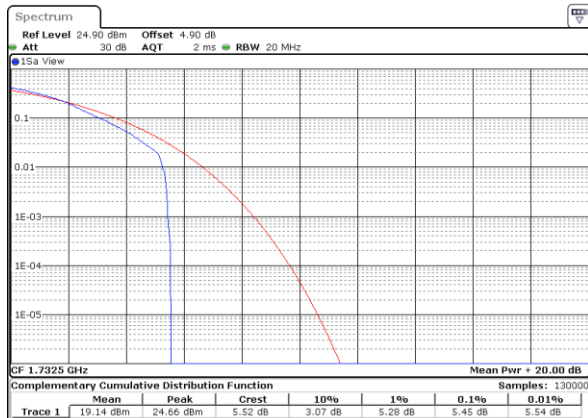
Date: 31 DEC 2019 06:18:48

Lowest Channel / Full RB



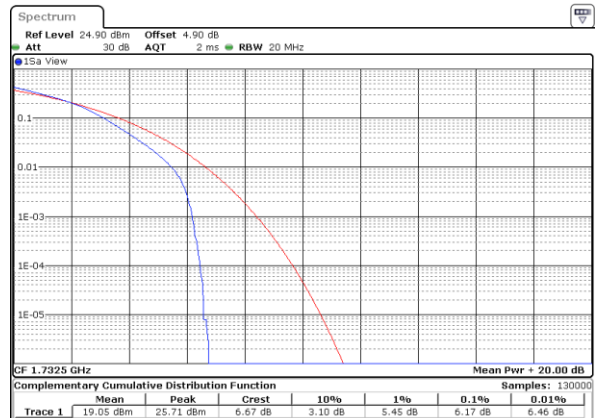
Date: 2 JAN 2020 01:49:24

Middle Channel / 1RB



Date: 31 DEC 2019 06:18:57

Middle Channel / Full RB



Date: 2 JAN 2020 01:49:47

Highest Channel / 1RB



Date: 31 DEC 2019 06:19:06

Highest Channel / Full RB



Date: 2 JAN 2020 01:50:49



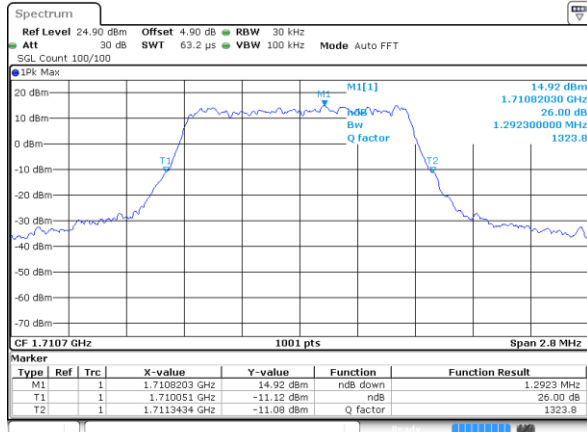
26dB Bandwidth

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	1.292	1.278	3.009	2.967	4.975	5.005	9.65	5.754	14.565	5.784	20.14	7.353
Middle CH	1.292	1.248	3.045	3.057	4.905	4.915	9.83	5.634	14.266	5.604	20.34	7.273
Highest CH	1.281	1.264	3.021	3.009	4.885	4.865	9.93	5.894	14.296	6.084	20.18	7.233



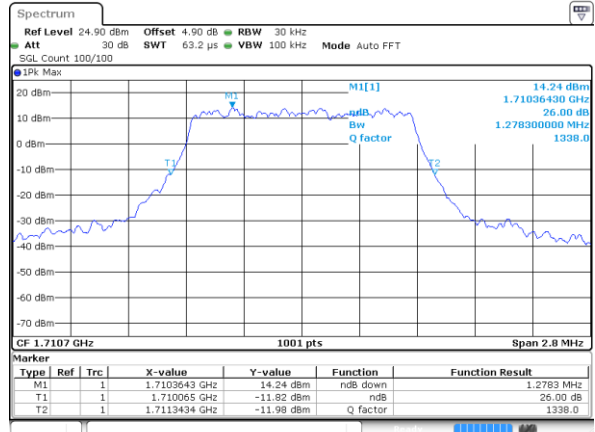
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



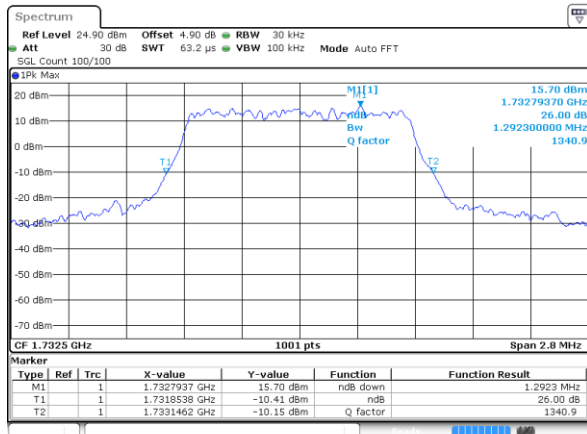
Date: 31 DEC 2019 04:42:01

Lowest Channel / 1.4MHz / 16QAM



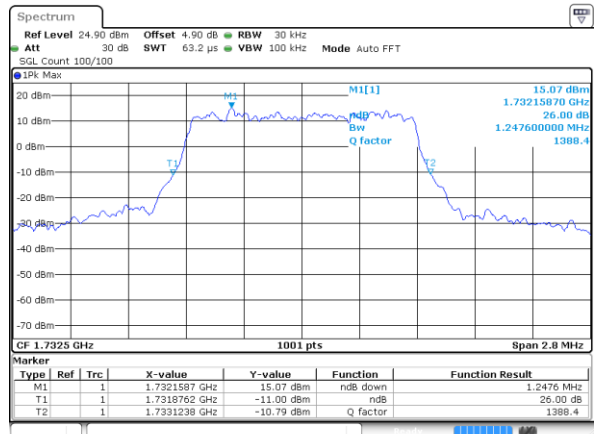
Date: 31 DEC 2019 04:42:11

Middle Channel / 1.4MHz / QPSK



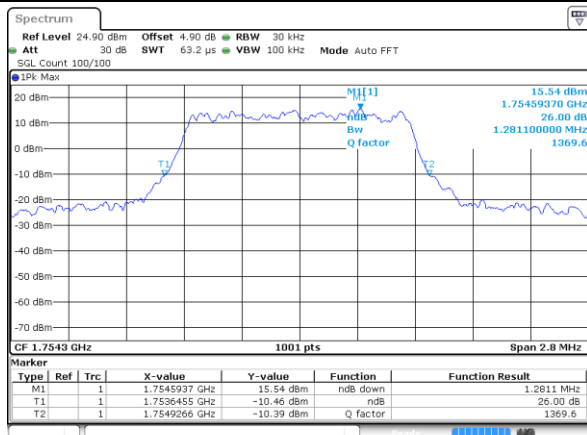
Date: 31 DEC 2019 04:48:59

Middle Channel / 1.4MHz / 16QAM



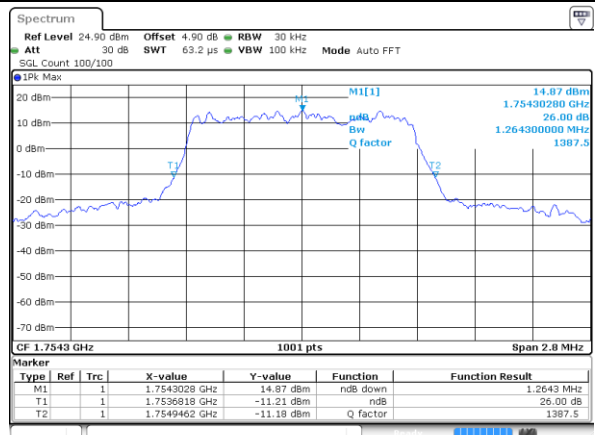
Date: 31 DEC 2019 04:49:09

Highest Channel / 1.4MHz / QPSK



Date: 31 DEC 2019 04:51:28

Highest Channel / 1.4MHz / 16QAM

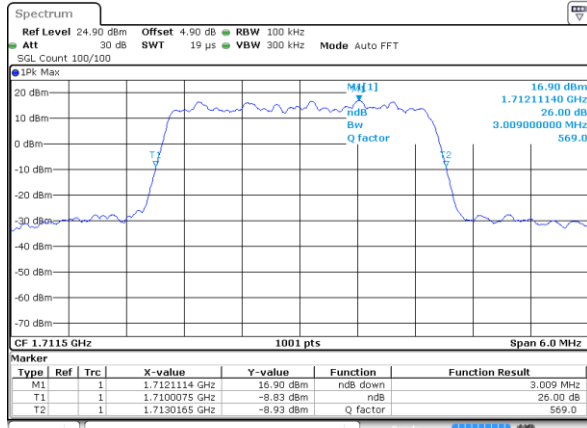


Date: 31 DEC 2019 04:51:38

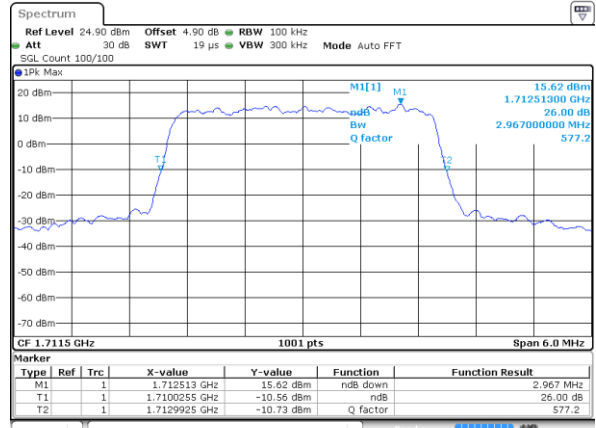


LTE Band 4

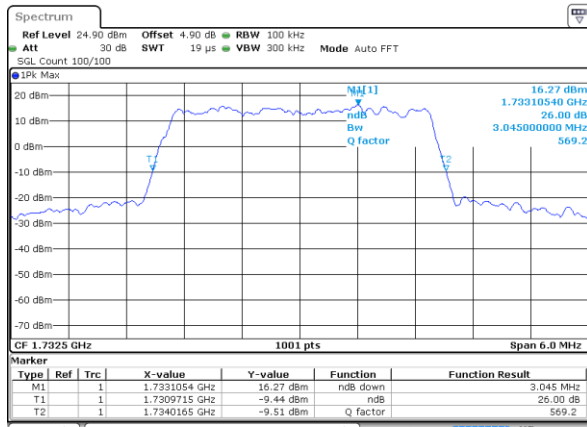
Lowest Channel / 3MHz / QPSK



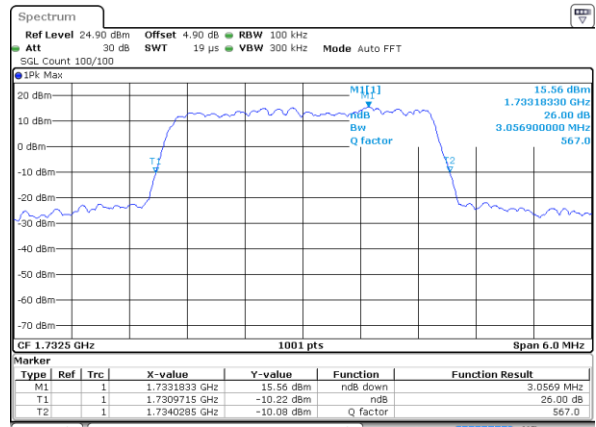
Lowest Channel / 3MHz / 16QAM



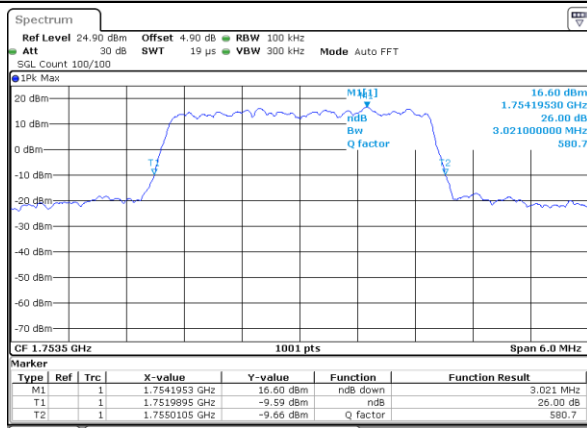
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



Highest Channel / 3MHz / 16QAM

