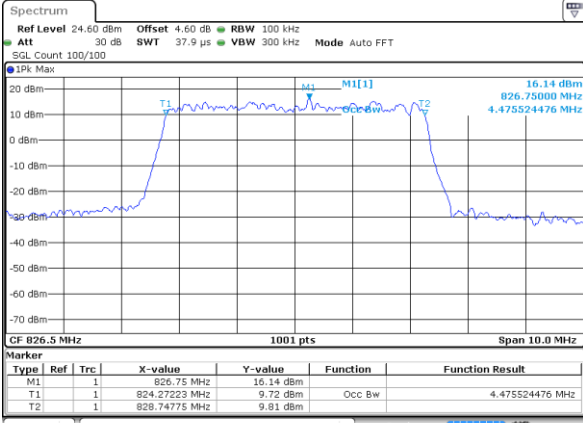




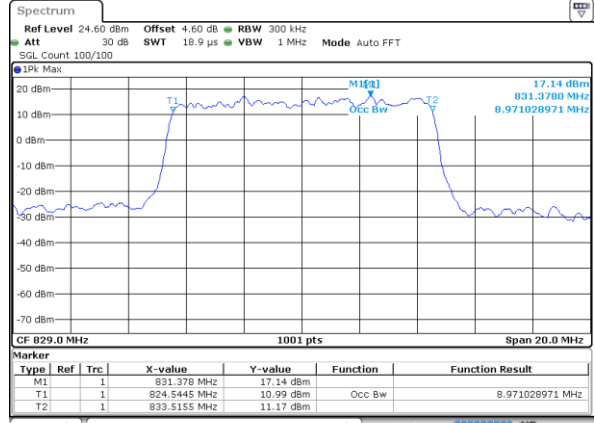
LTE Band 5

Lowest Channel / 5MHz / 64QAM



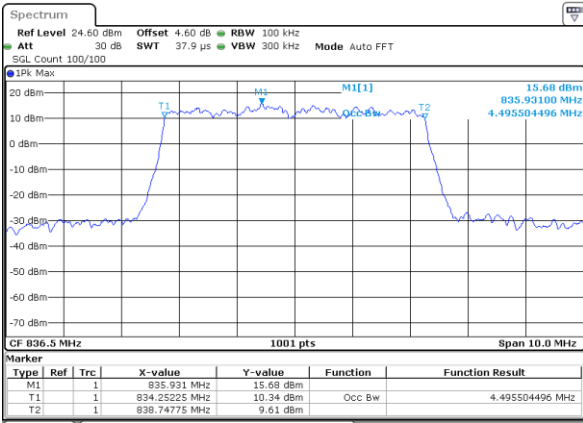
Date: 11 NOV 2019 21:08:53

Lowest Channel / 10MHz / 64QAM



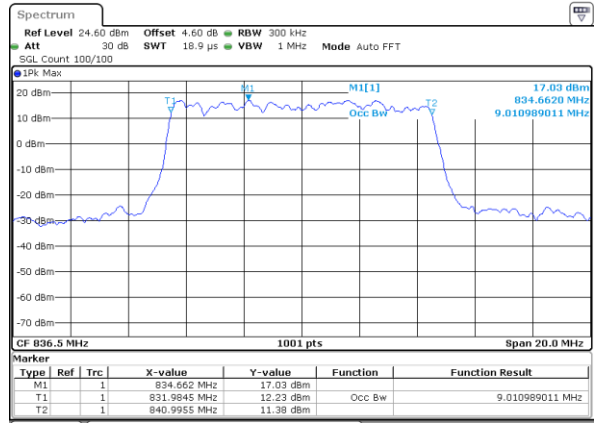
Date: 11 NOV 2019 21:19:08

Middle Channel / 5MHz / 64QAM



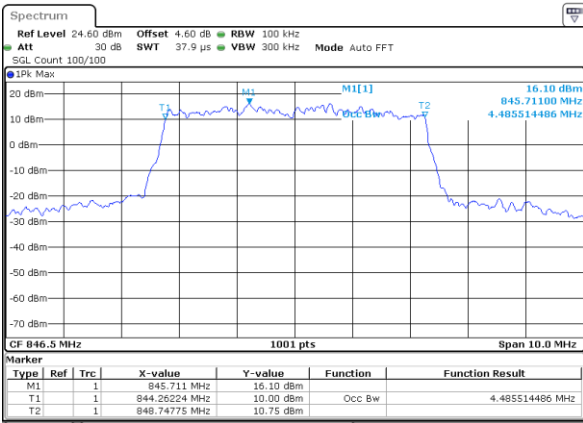
Date: 11 NOV 2019 21:14:18

Middle Channel / 10MHz / 64QAM



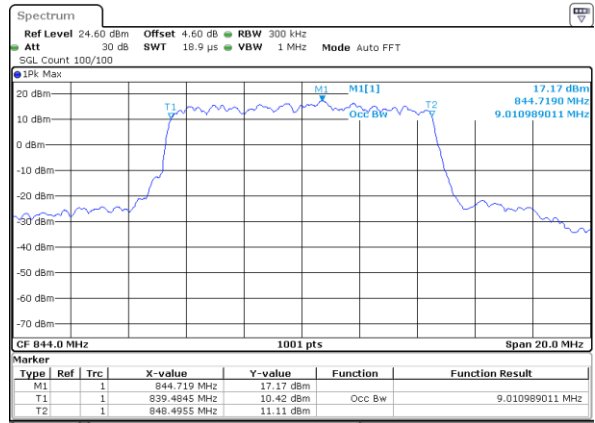
Date: 11 NOV 2019 21:24:33

Highest Channel / 5MHz / 64QAM



Date: 11 NOV 2019 21:14:38

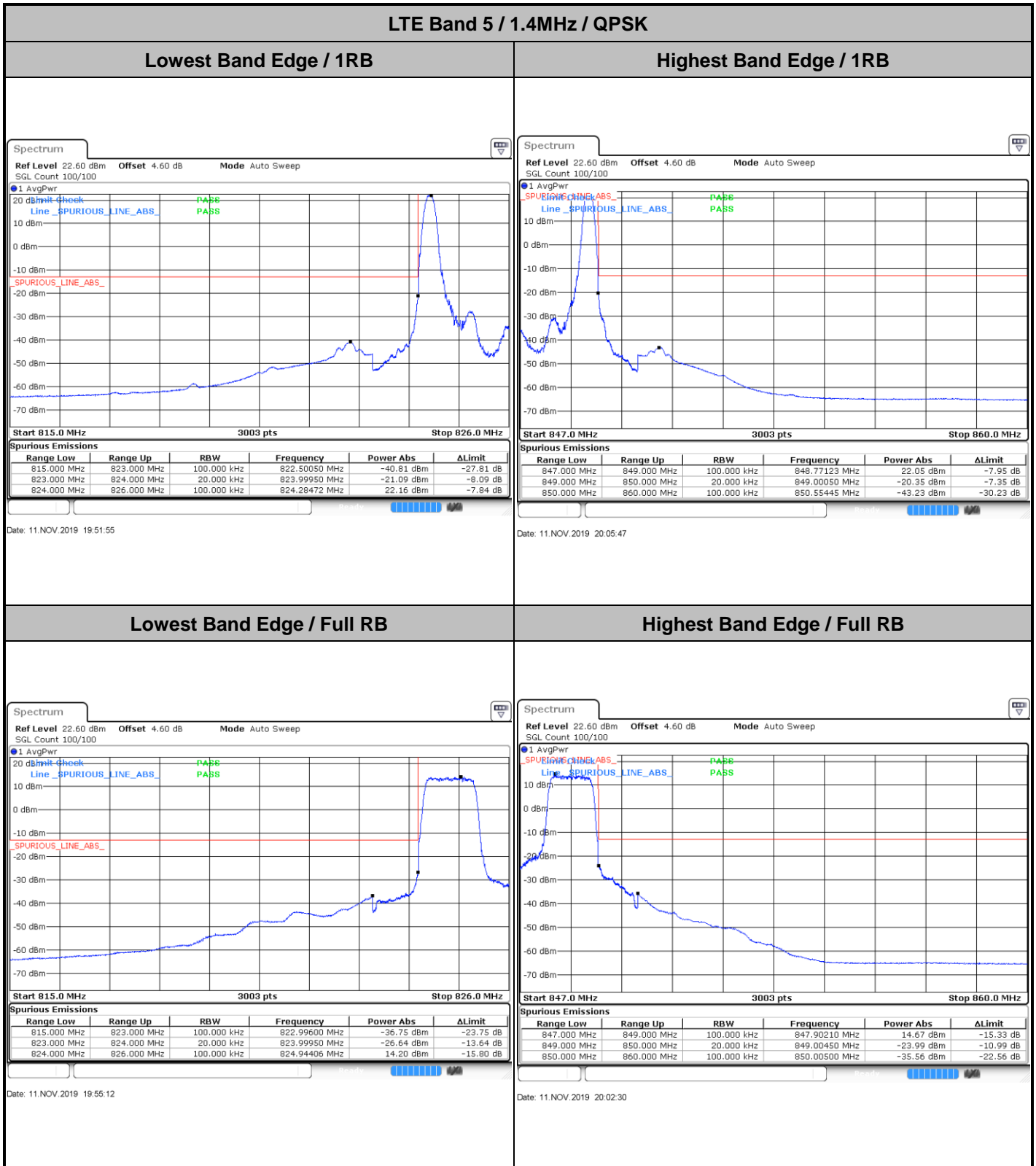
Highest Channel / 10MHz / 64QAM



Date: 11 NOV 2019 21:24:53



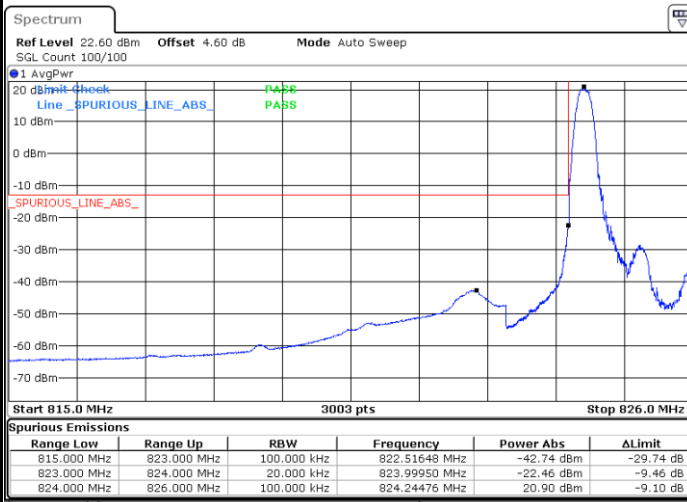
Conducted Band Edge





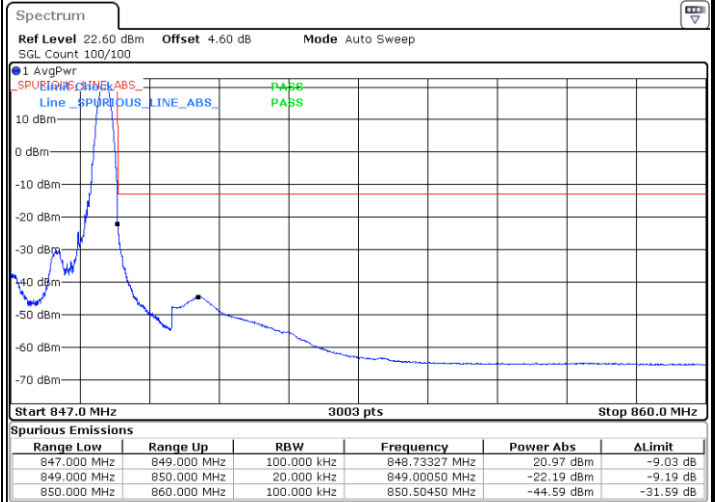
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



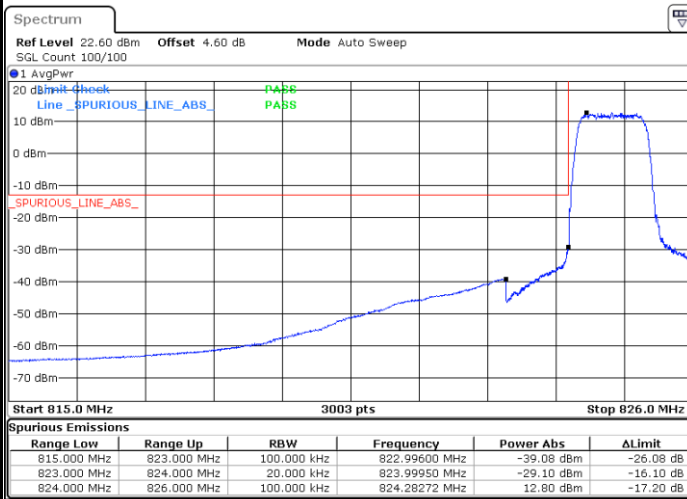
Date: 11.NOV.2019 19:53:33

Highest Band Edge / 1 RB



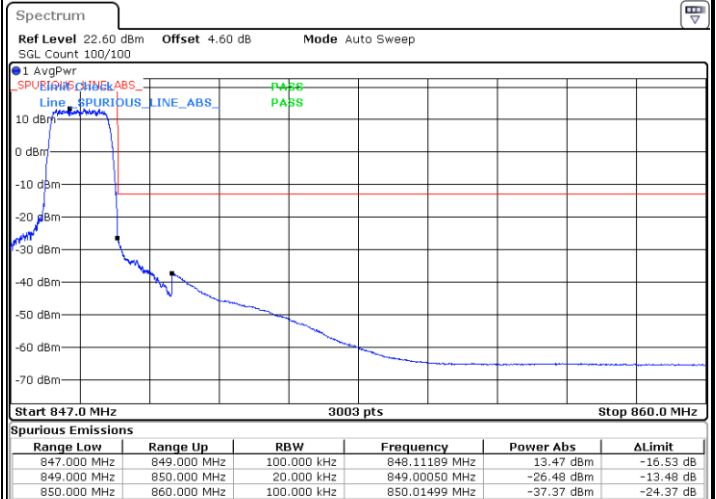
Date: 11.NOV.2019 20:07:26

Lowest Band Edge / Full RB



Date: 11.NOV.2019 19:56:51

Highest Band Edge / Full RB



Date: 11.NOV.2019 20:04:09



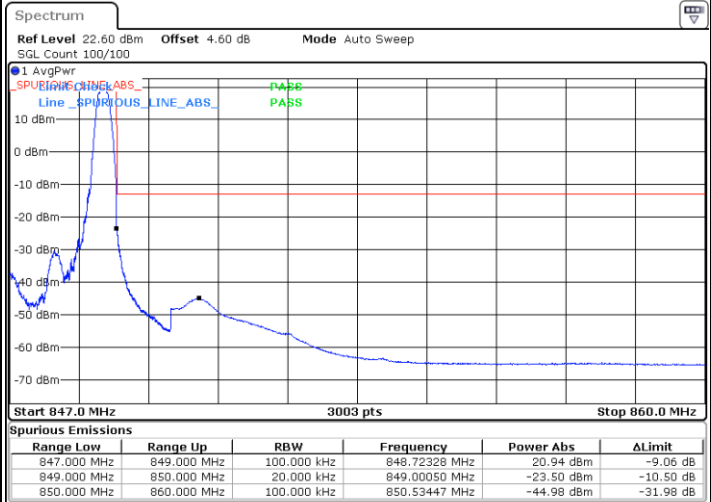
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



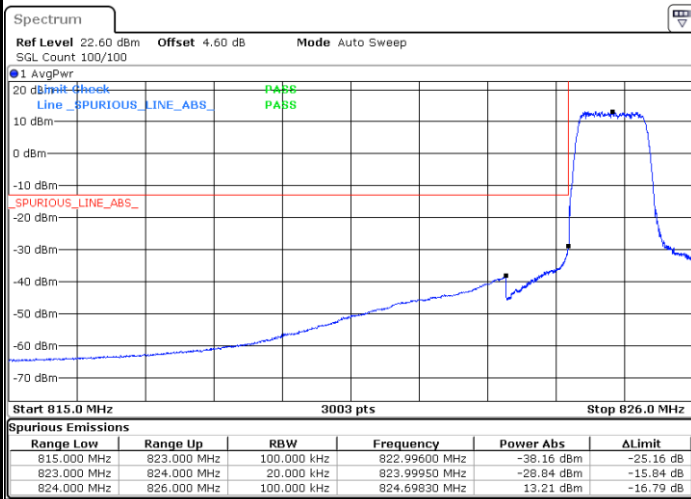
Date: 11.NOV.2019 20:51:50

Highest Band Edge / 1 RB



Date: 11.NOV.2019 20:57:34

Lowest Band Edge / Full RB



Date: 11.NOV.2019 20:50:11

Highest Band Edge / Full RB

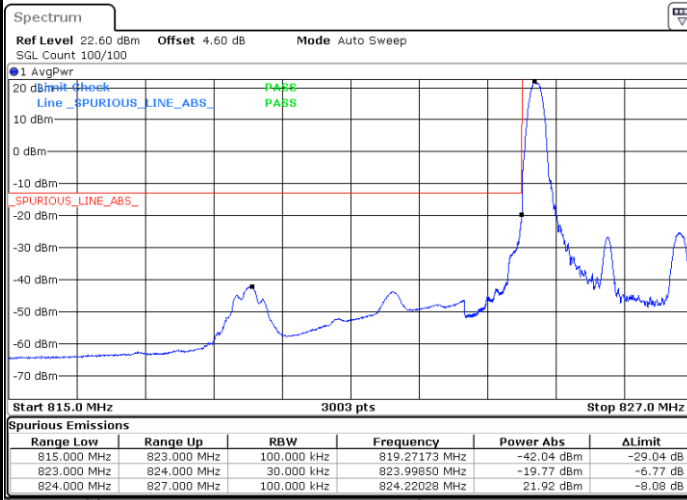


Date: 11.NOV.2019 20:55:55



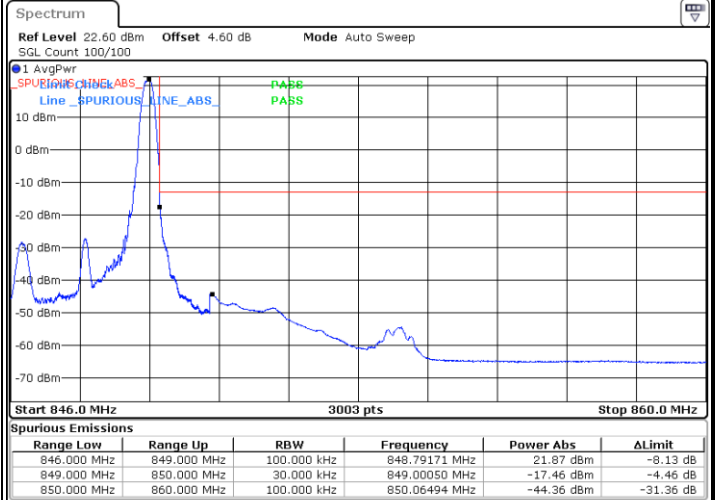
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



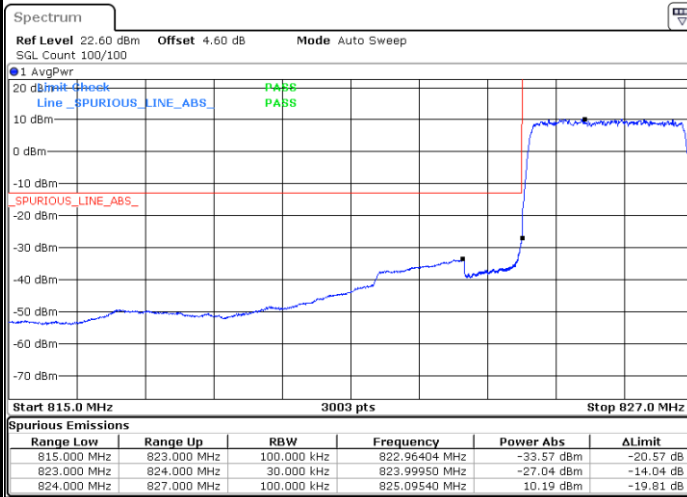
Date: 11.NOV.2019 21:47:16

Highest Band Edge / 1 RB



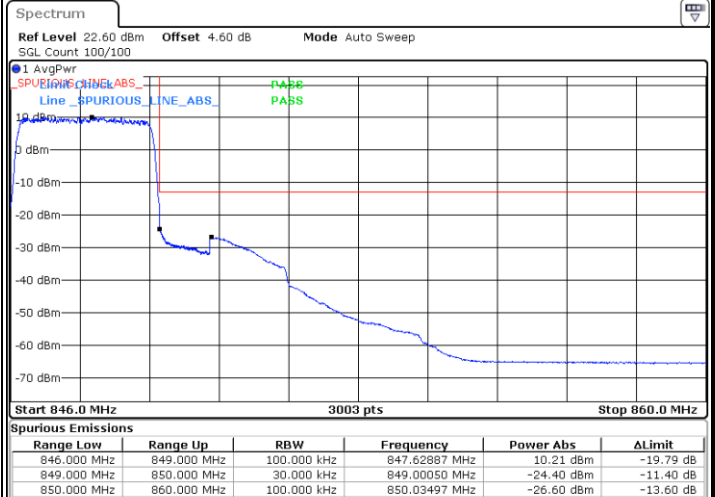
Date: 11.NOV.2019 21:58:45

Lowest Band Edge / Full RB



Date: 11.NOV.2019 21:50:33

Highest Band Edge / Full RB

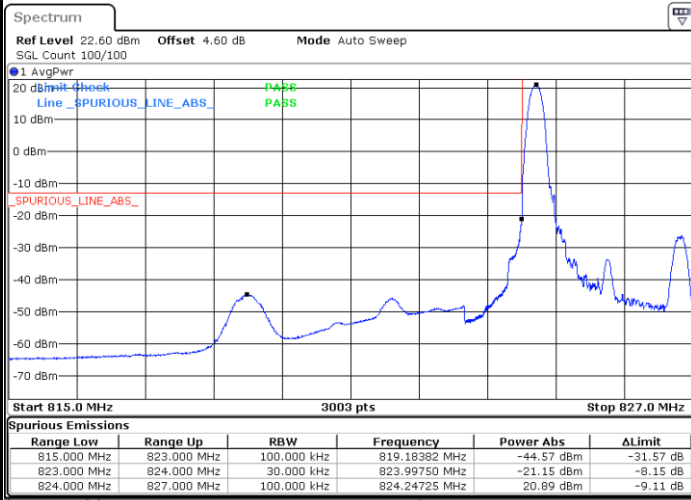


Date: 11.NOV.2019 22:02:02



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



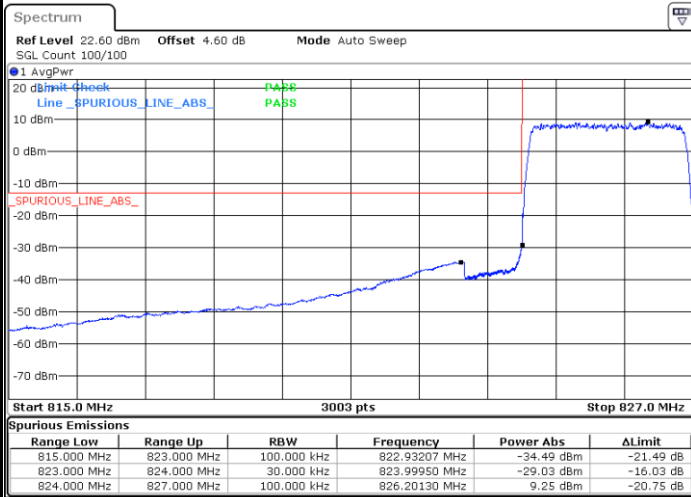
Date: 11.NOV.2019 21:48:55

Highest Band Edge / 1 RB



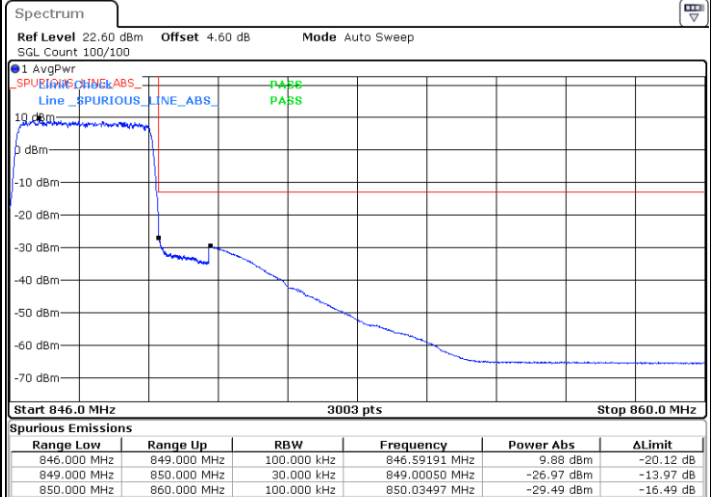
Date: 11.NOV.2019 22:00:23

Lowest Band Edge / Full RB



Date: 11.NOV.2019 21:52:12

Highest Band Edge / Full RB

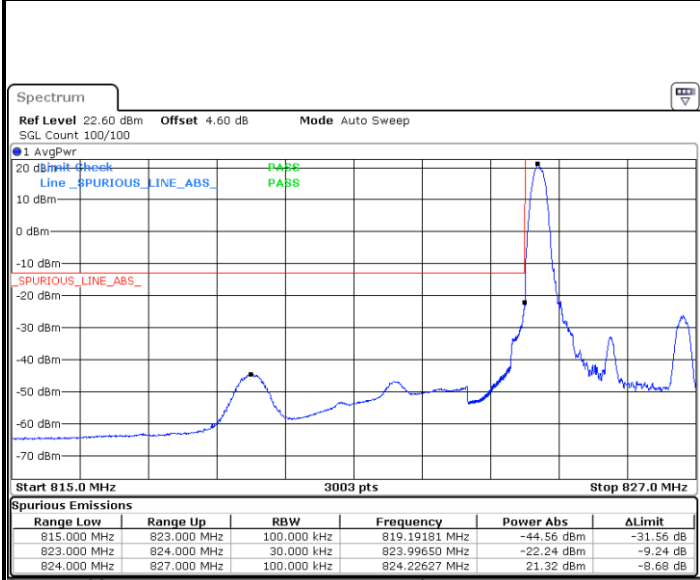


Date: 11.NOV.2019 22:03:41



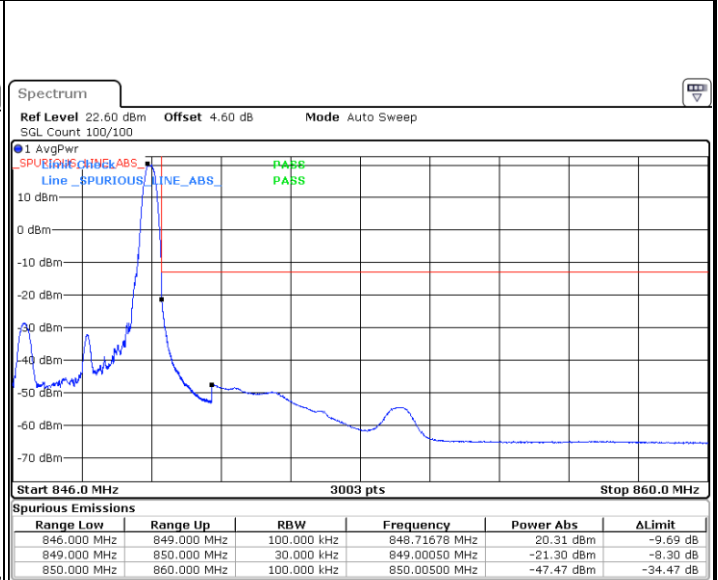
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



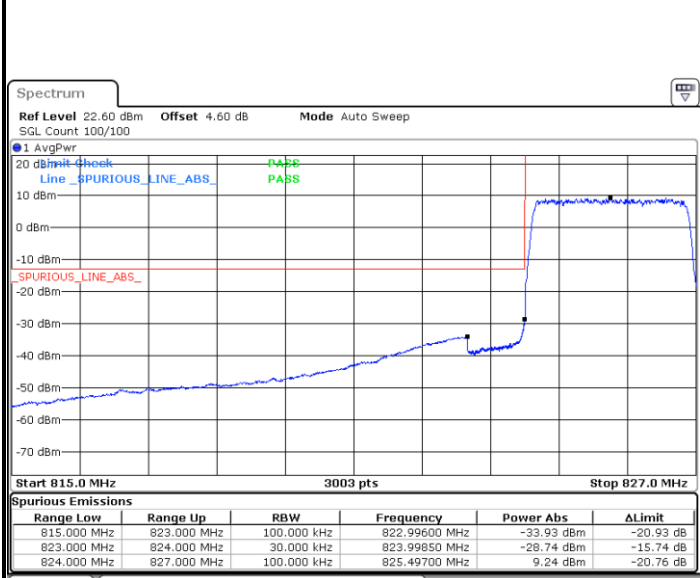
Date: 11.NOV.2019 21:02:05

Highest Band Edge / 1 RB



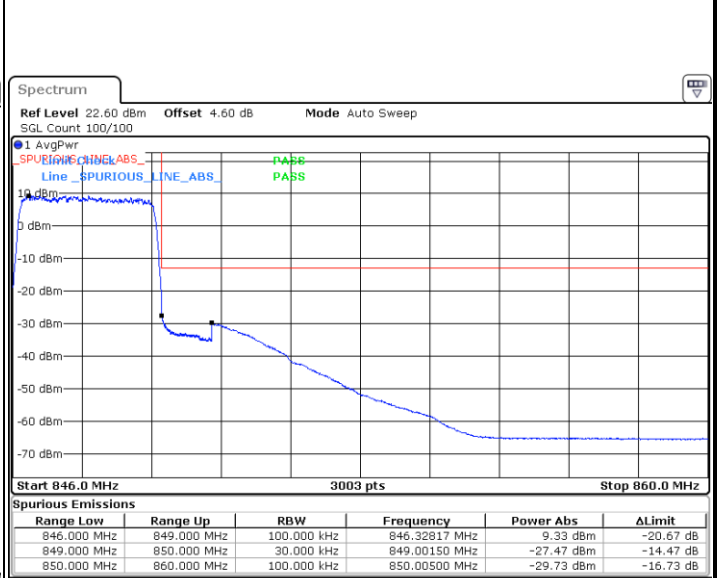
Date: 11.NOV.2019 21:07:49

Lowest Band Edge / Full RB



Date: 11.NOV.2019 21:00:26

Highest Band Edge / Full RB

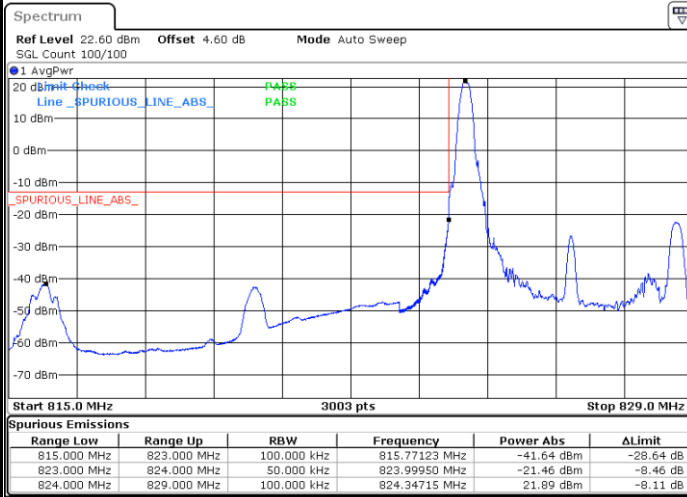


Date: 11.NOV.2019 21:06:11



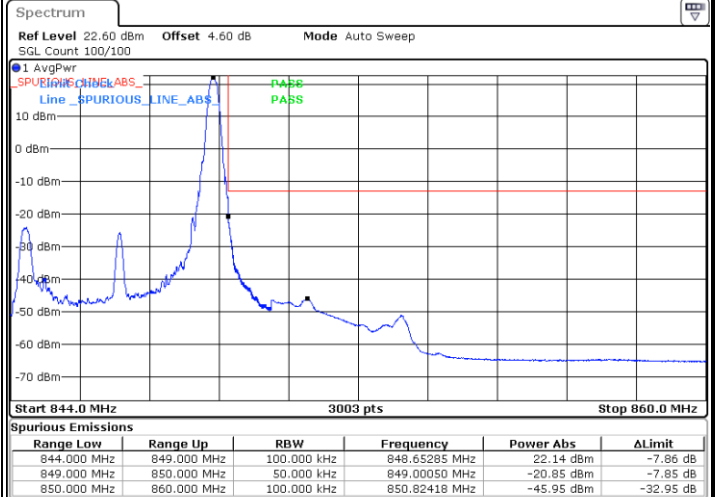
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



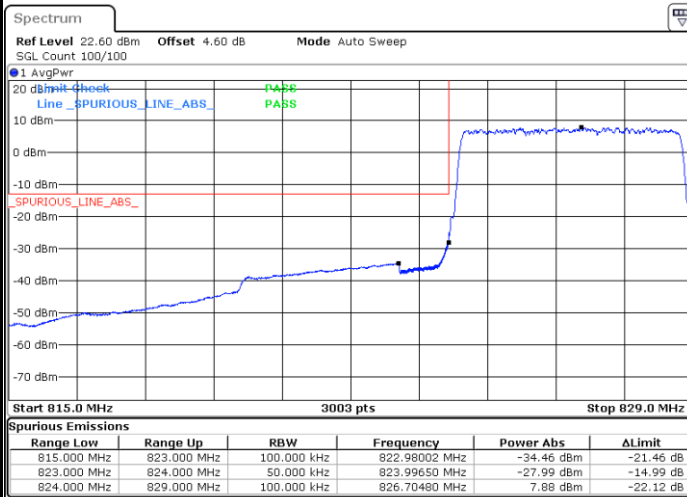
Date: 11.NOV.2019 21:40:47

Highest Band Edge / 1 RB



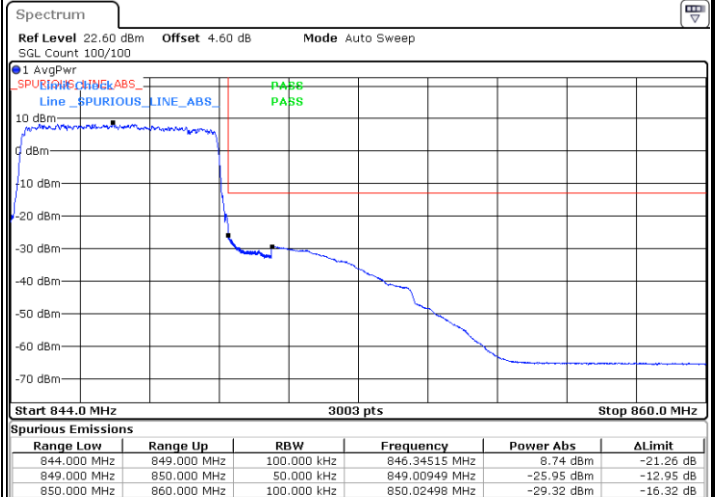
Date: 11.NOV.2019 20:15:32

Lowest Band Edge / Full RB



Date: 11.NOV.2019 21:44:39

Highest Band Edge / Full RB

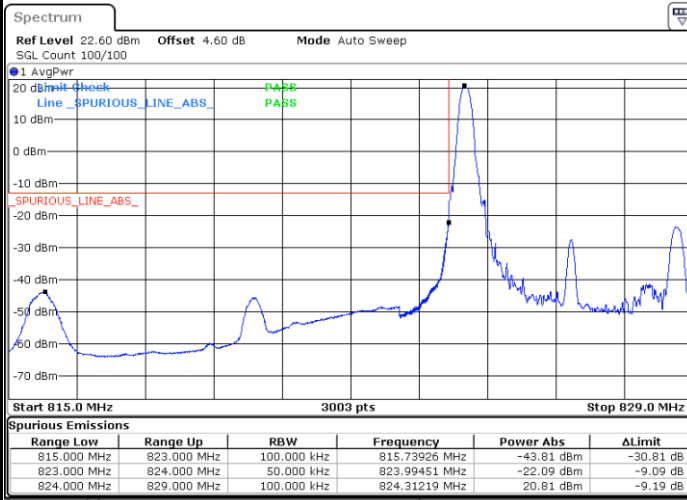


Date: 11.NOV.2019 20:18:49



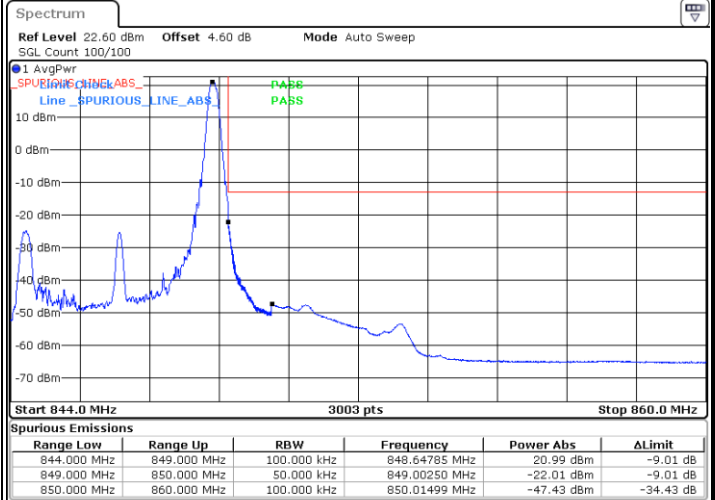
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



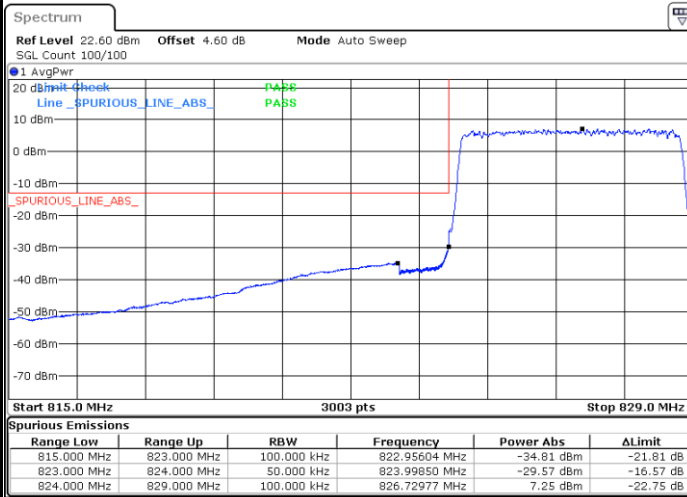
Date: 11.NOV.2019 21:42:18

Highest Band Edge / 1 RB



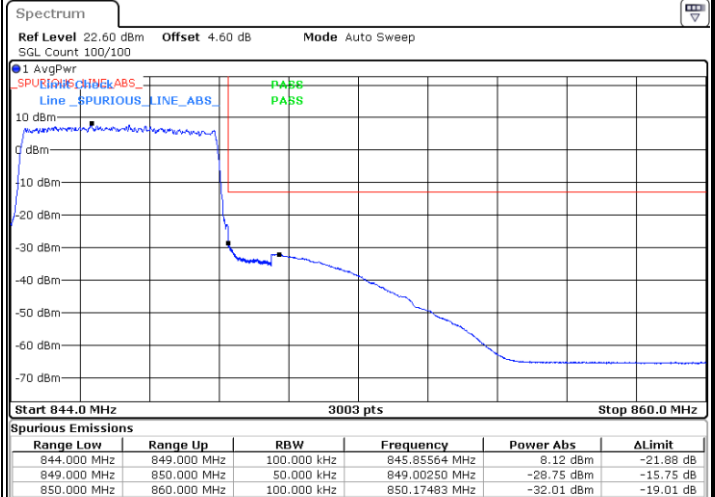
Date: 11.NOV.2019 20:17:11

Lowest Band Edge / Full RB



Date: 11.NOV.2019 21:43:40

Highest Band Edge / Full RB

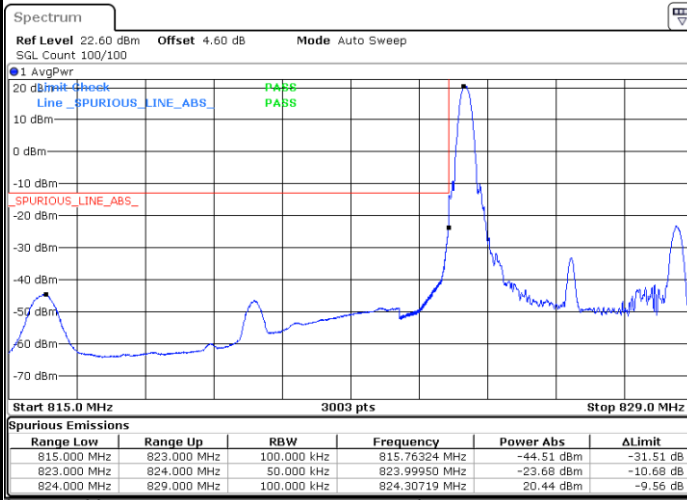


Date: 11.NOV.2019 20:20:28



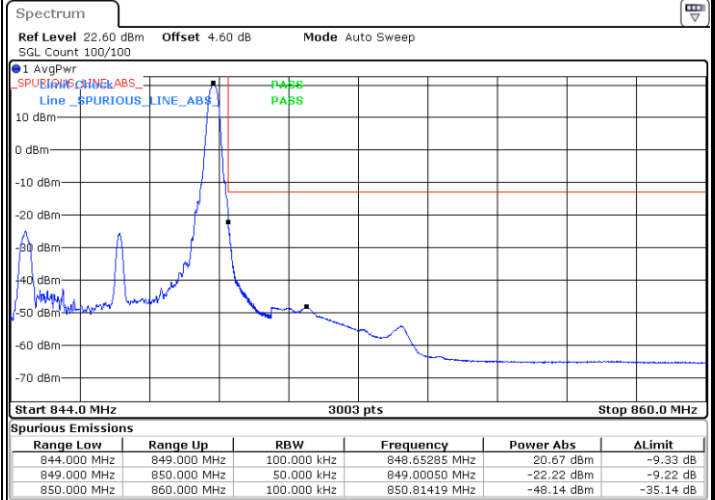
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



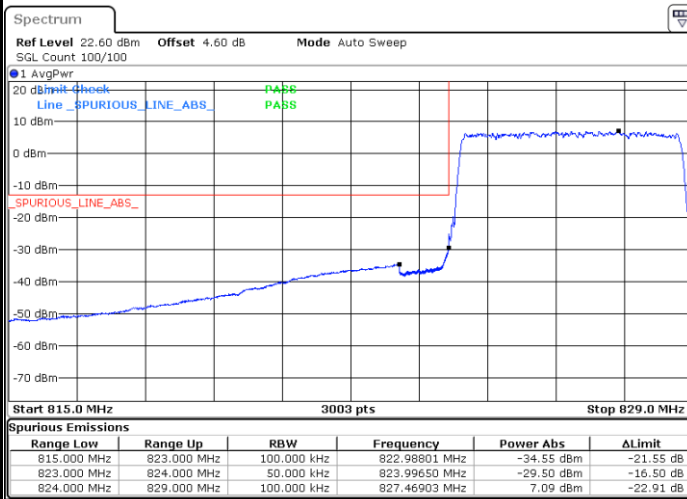
Date: 11.NOV.2019 21:12:20

Highest Band Edge / 1 RB



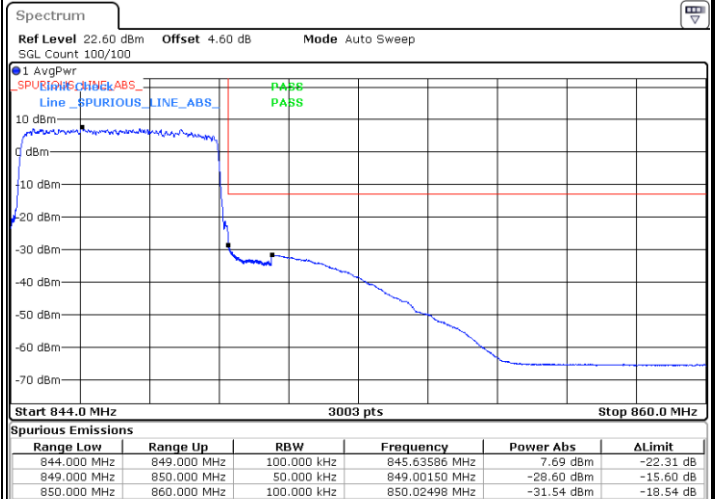
Date: 11.NOV.2019 21:18:04

Lowest Band Edge / Full RB



Date: 11.NOV.2019 21:10:42

Highest Band Edge / Full RB

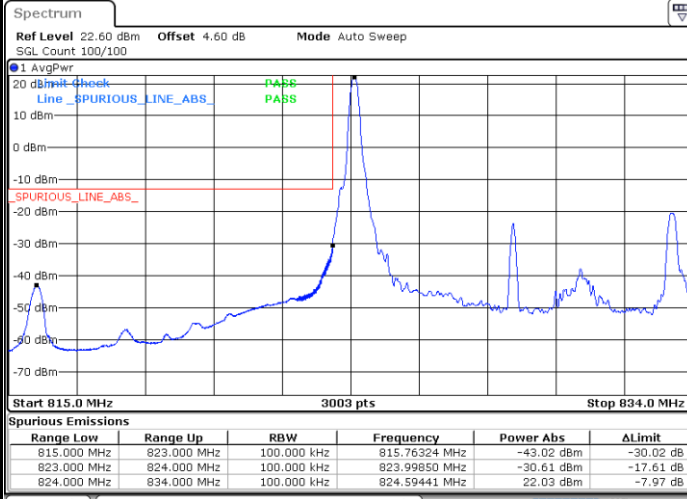


Date: 11.NOV.2019 21:16:26



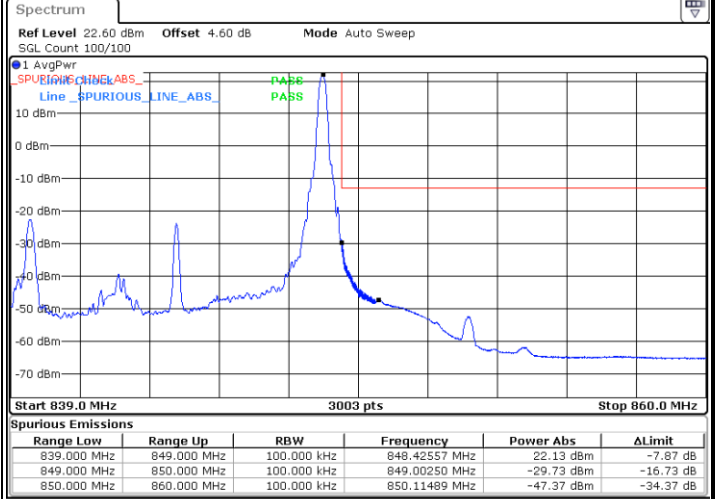
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



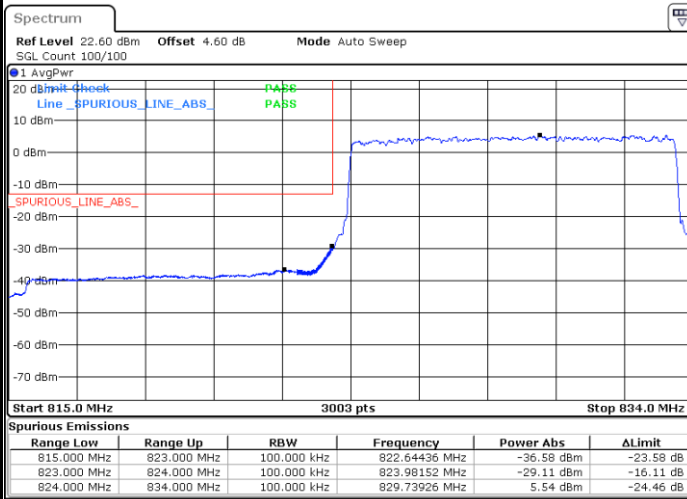
Date: 11.NOV.2019 20:24:34

Highest Band Edge / 1 RB



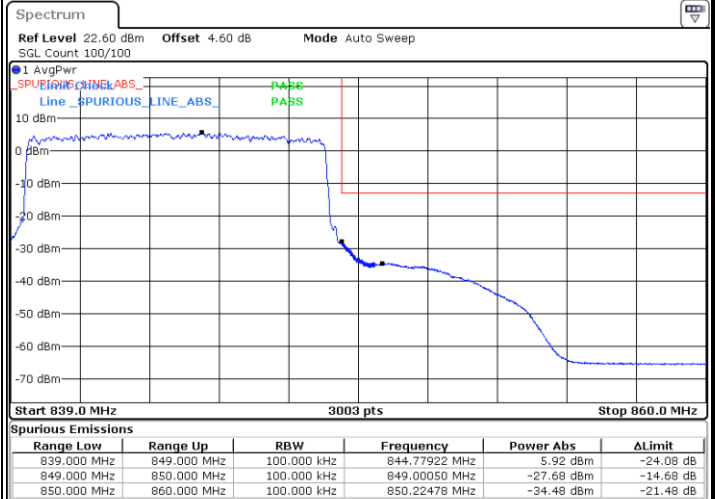
Date: 11.NOV.2019 20:36:03

Lowest Band Edge / Full RB



Date: 11.NOV.2019 20:27:51

Highest Band Edge / Full RB

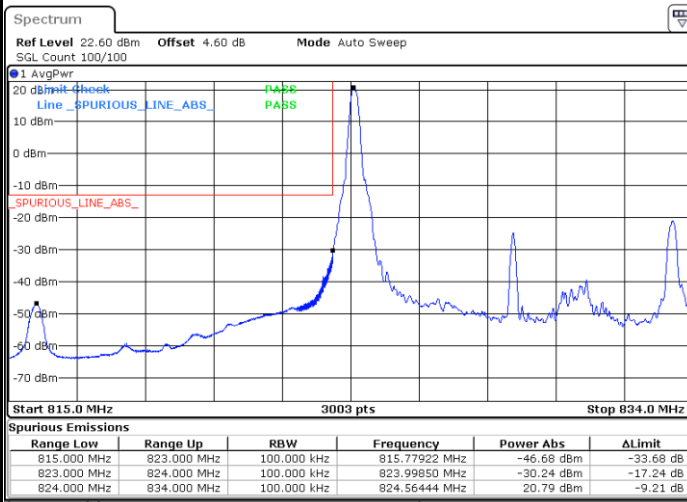


Date: 11.NOV.2019 20:39:20



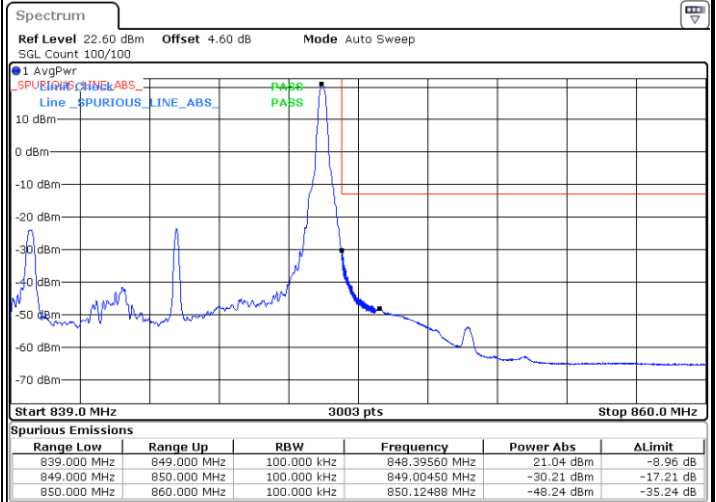
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



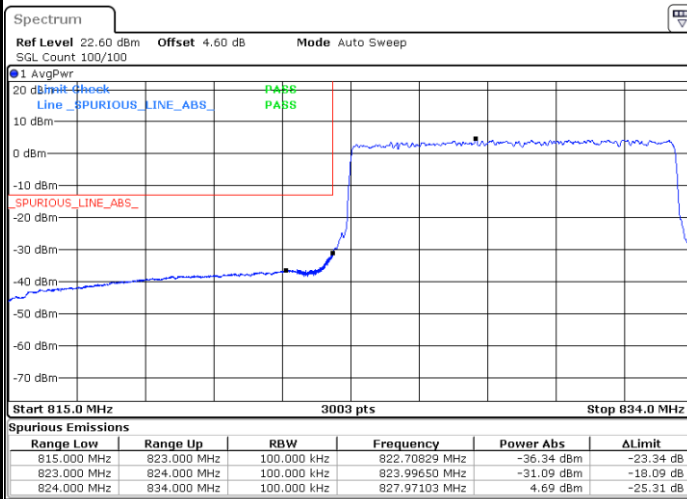
Date: 11.NOV.2019 20:26:12

Highest Band Edge / 1 RB



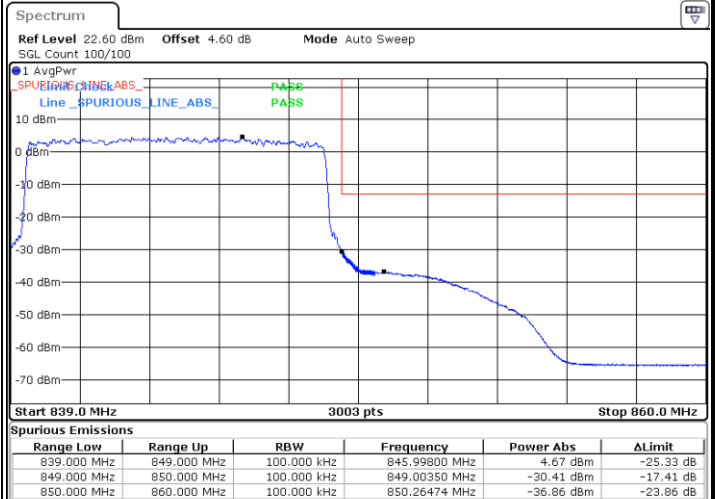
Date: 11.NOV.2019 20:37:41

Lowest Band Edge / Full RB



Date: 11.NOV.2019 20:29:30

Highest Band Edge / Full RB

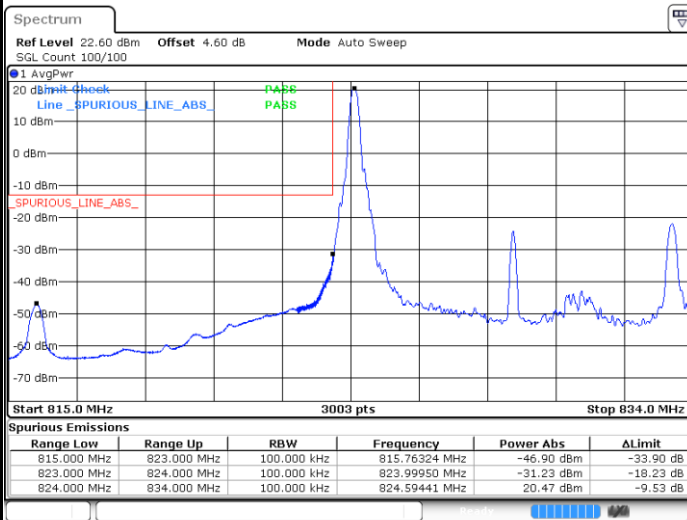


Date: 11.NOV.2019 20:40:59



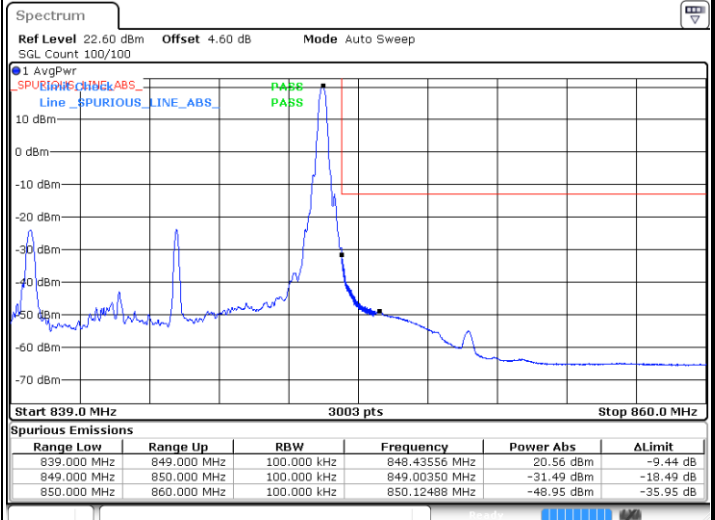
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



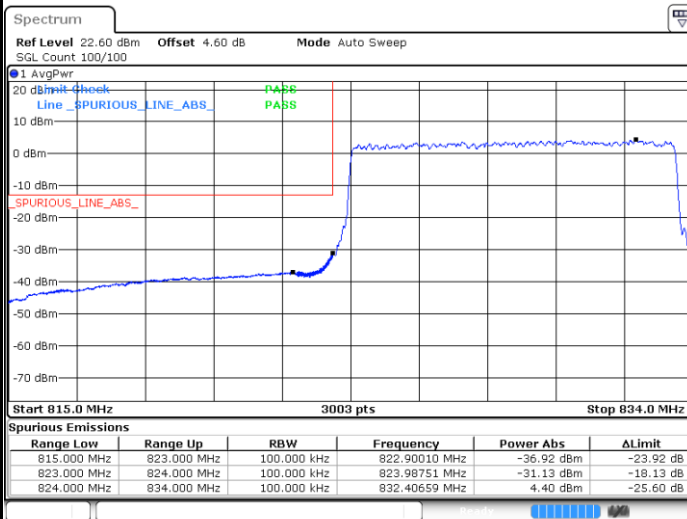
Date: 11.NOV.2019 21:22:35

Highest Band Edge / 1 RB



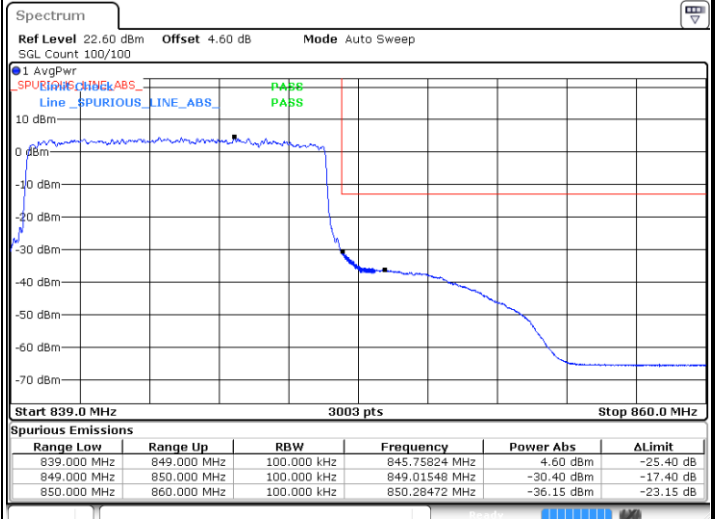
Date: 11.NOV.2019 21:28:20

Lowest Band Edge / Full RB



Date: 11.NOV.2019 21:20:57

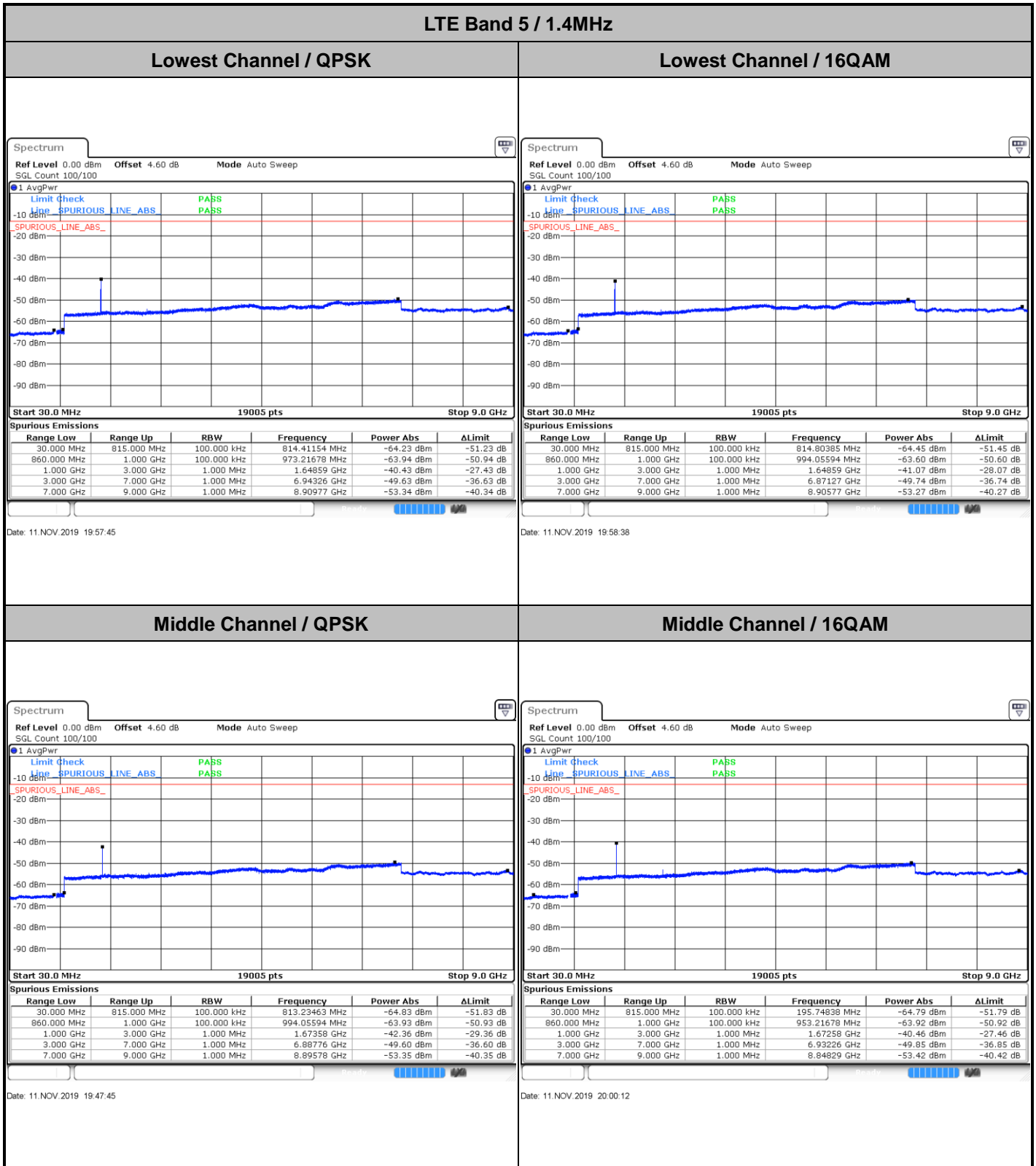
Highest Band Edge / Full RB



Date: 11.NOV.2019 21:26:41



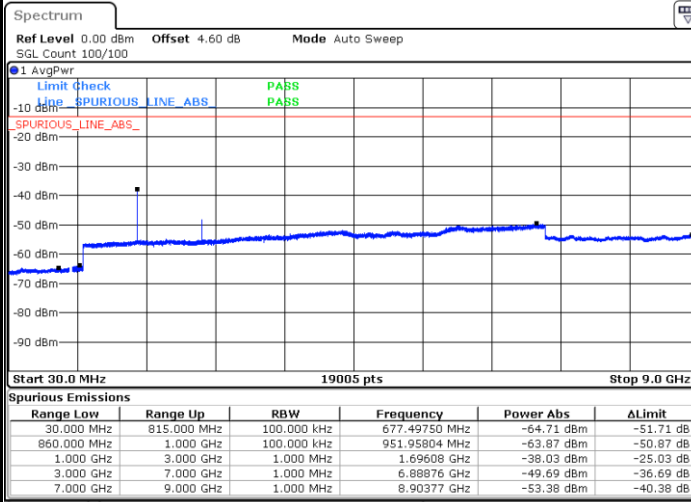
Conducted Spurious Emission





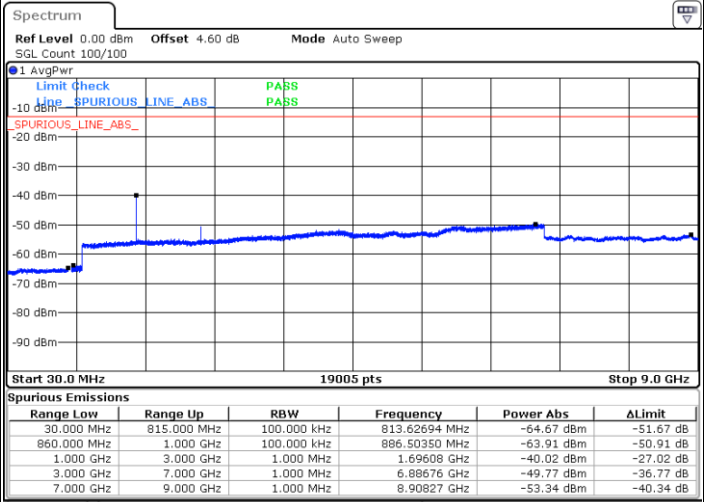
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 11.NOV.2019 20:08:20

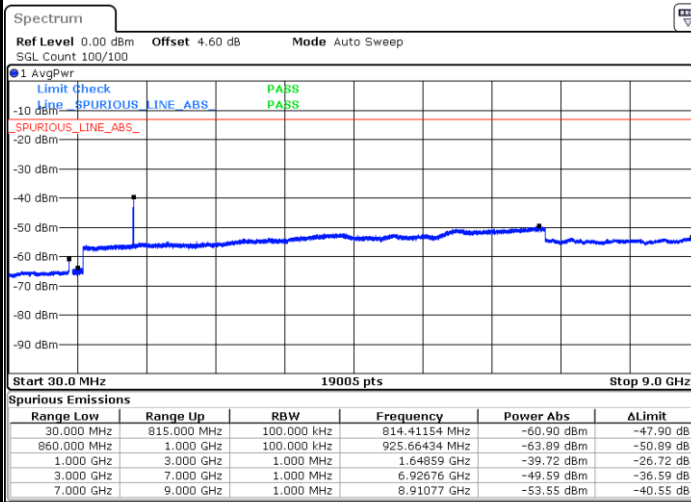
Highest Channel / 16QAM



Date: 11.NOV.2019 20:09:13

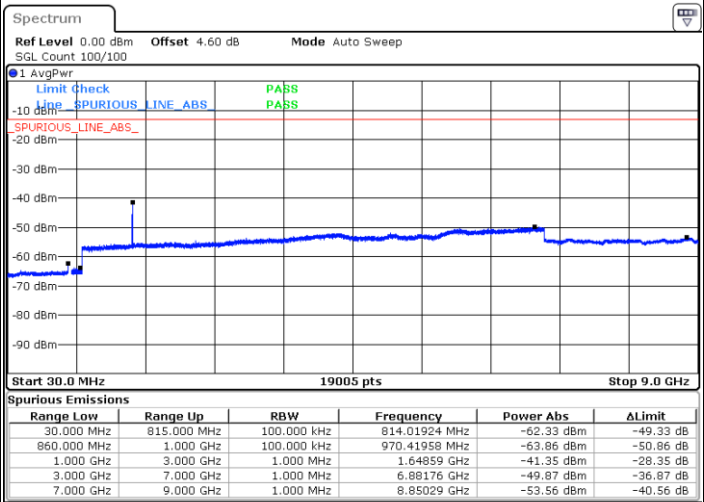
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 11.NOV.2019 21:53:06

Lowest Channel / 16QAM



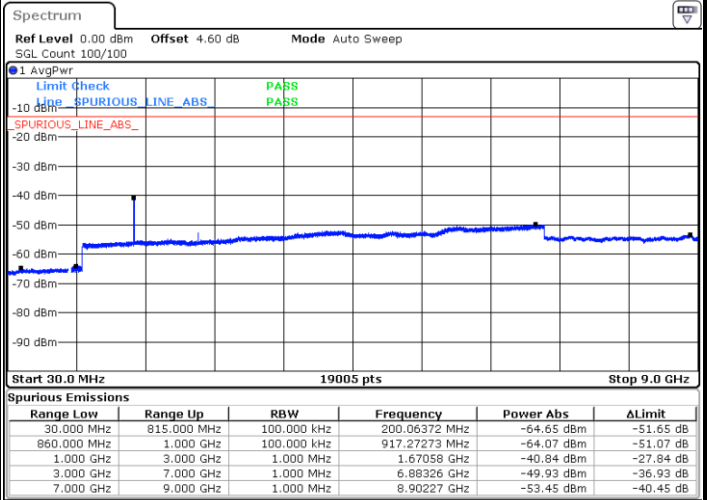
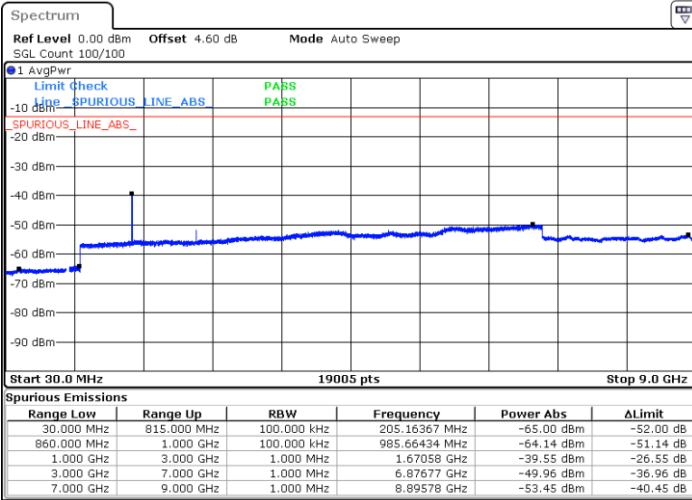
Date: 11.NOV.2019 21:54:00



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

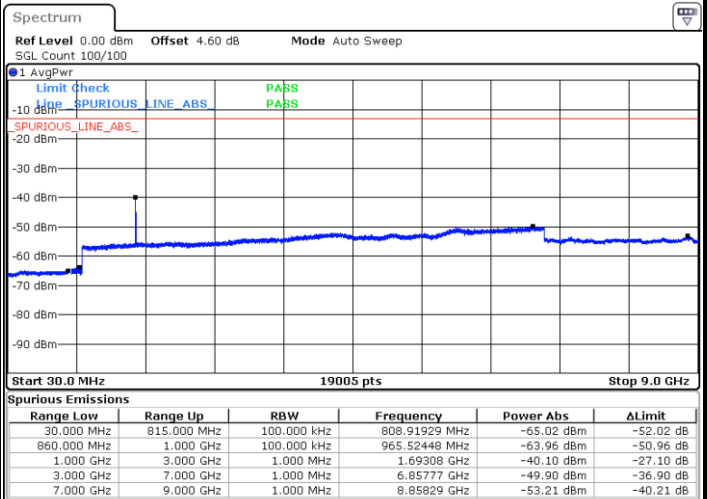
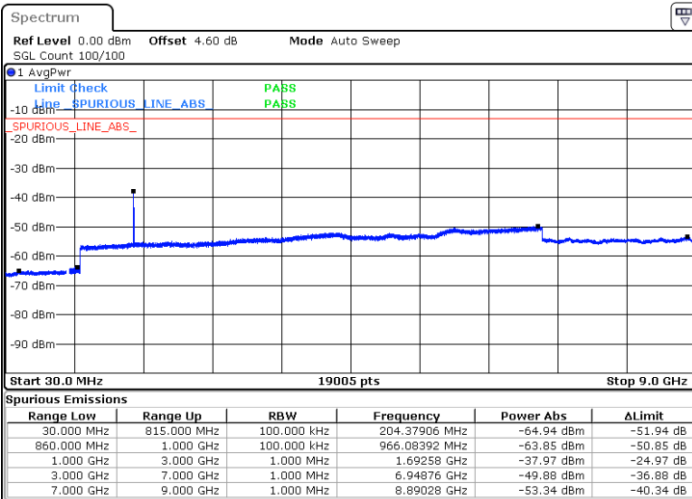


Date: 11.NOV.2019 21:55:33

Date: 11.NOV.2019 21:56:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.NOV.2019 22:04:35

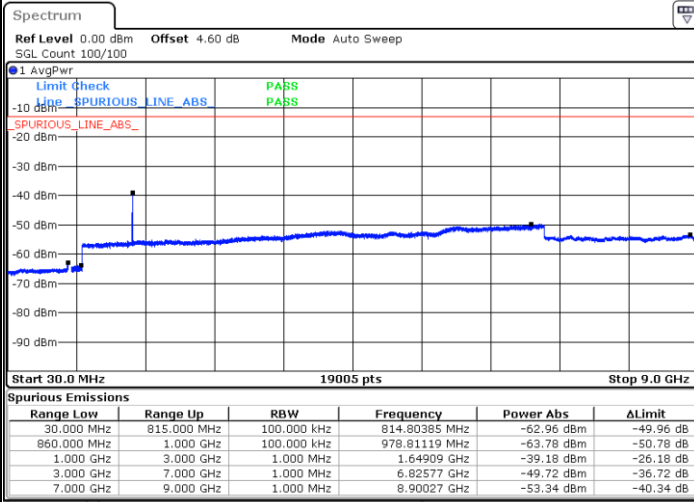
Date: 11.NOV.2019 22:05:28



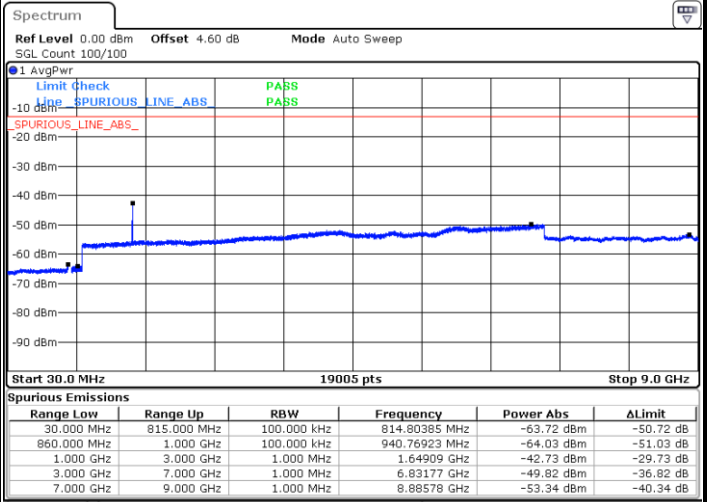
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



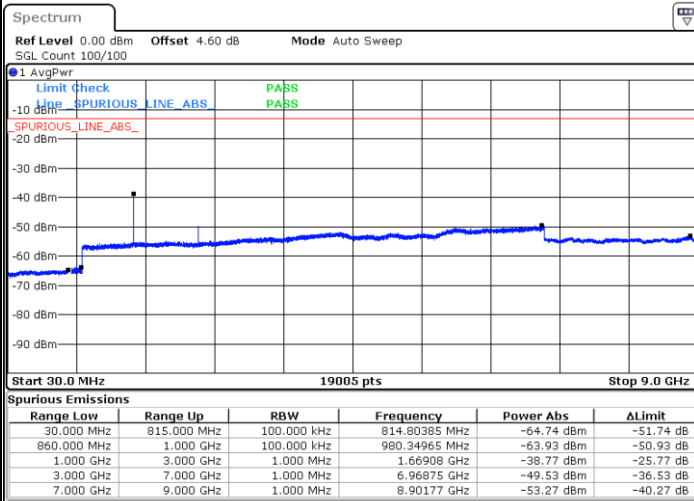
Date: 11.NOV.2019 21:38:49



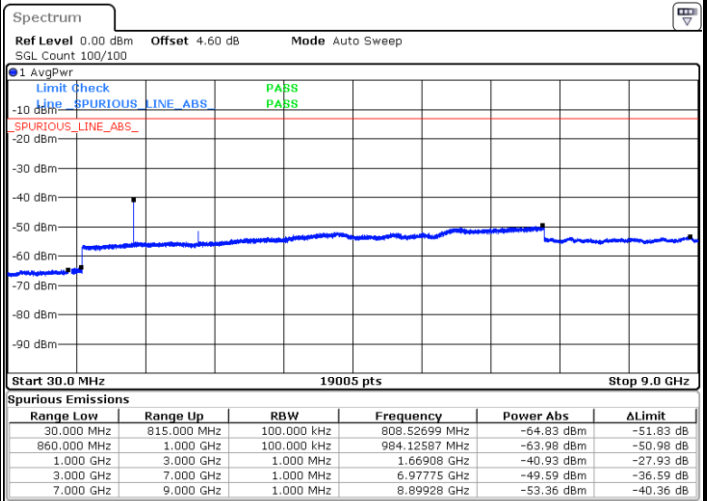
Date: 11.NOV.2019 21:38:08

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 11.NOV.2019 20:12:20

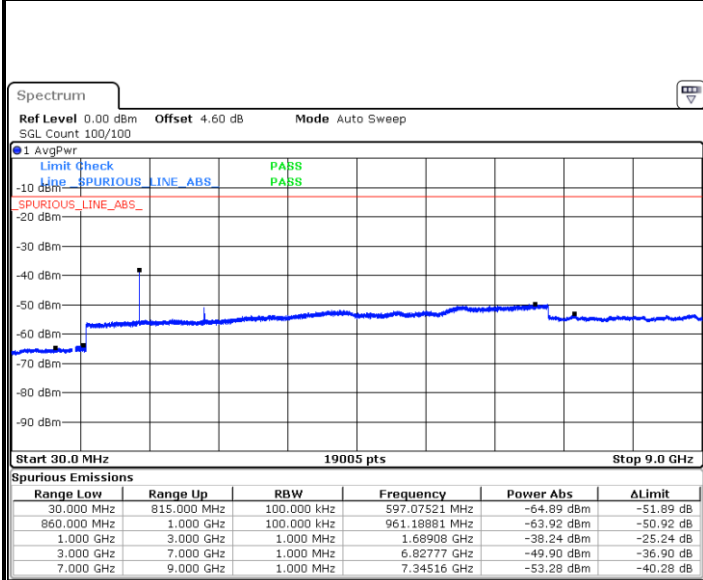


Date: 11.NOV.2019 20:13:14



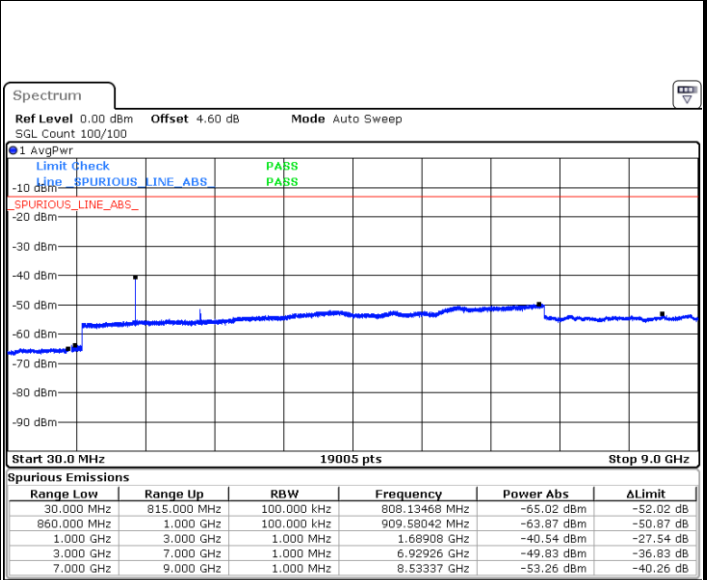
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 11.NOV.2019 20:21:22

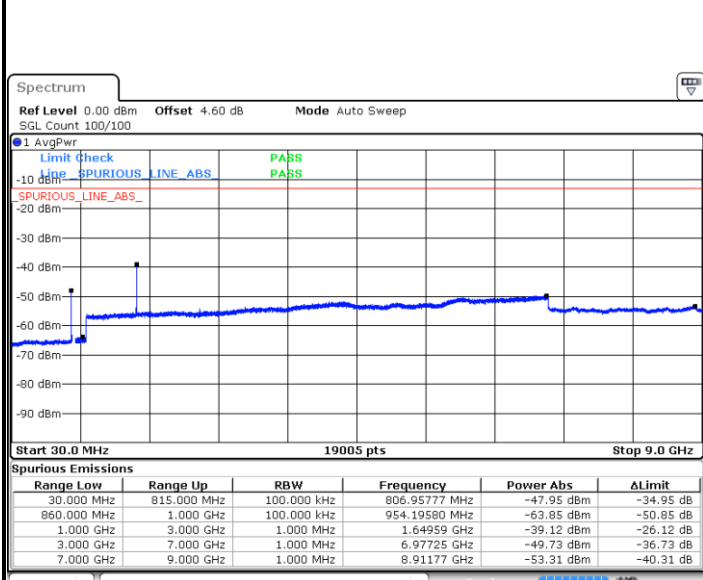
Highest Channel / 16QAM



Date: 11.NOV.2019 20:22:16

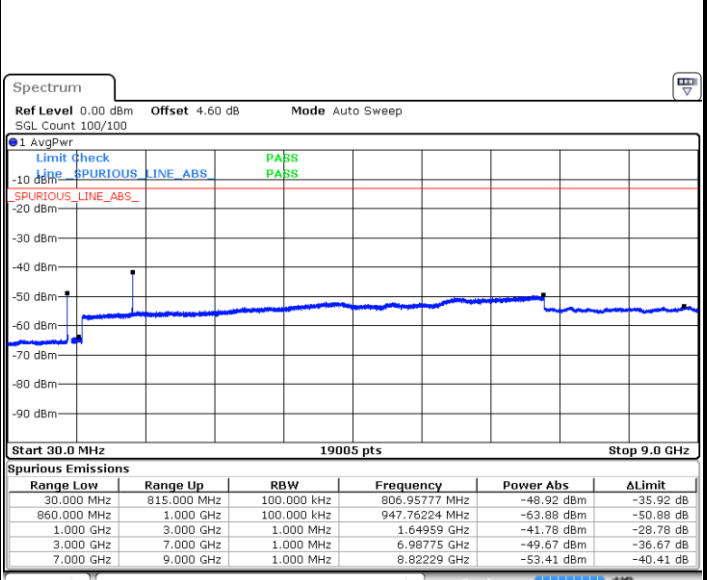
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 11.NOV.2019 20:30:24

Lowest Channel / 16QAM



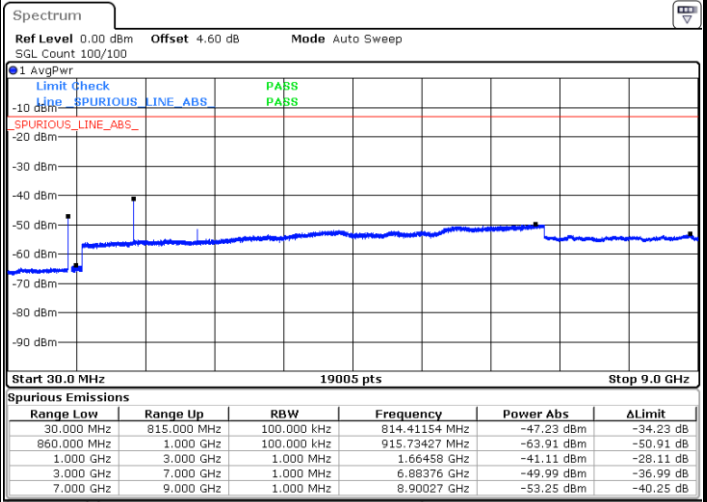
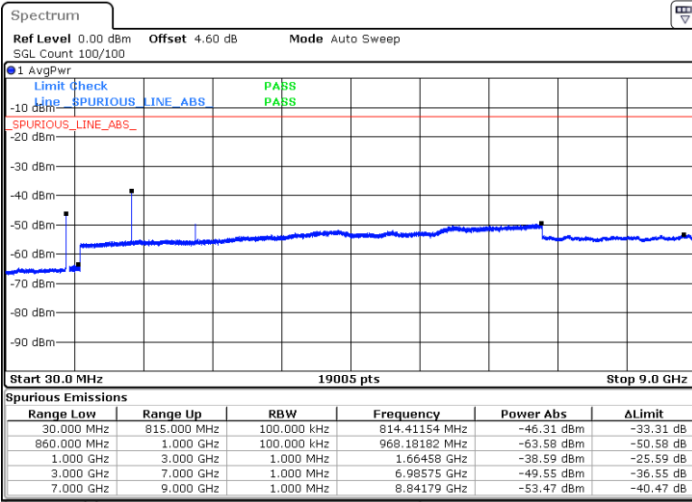
Date: 11.NOV.2019 20:31:18



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

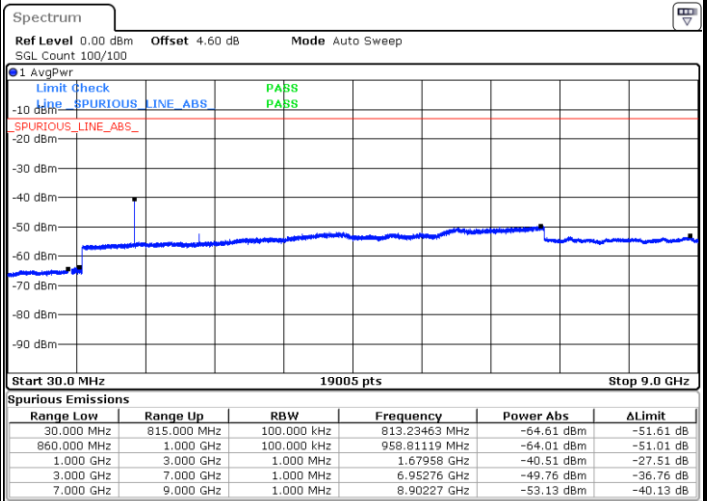
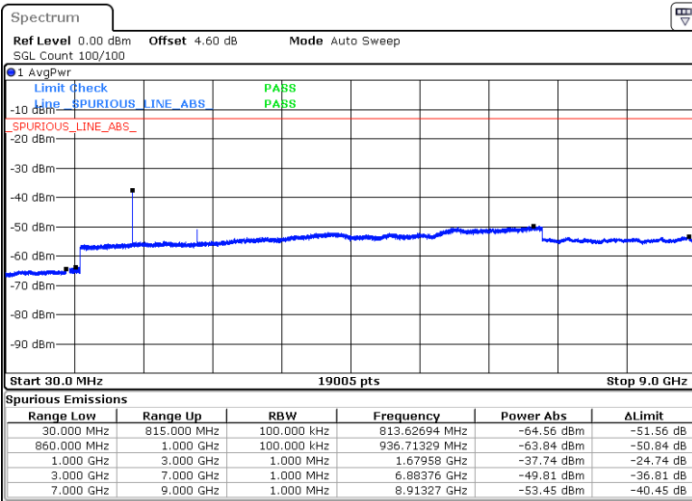


Date: 11.NOV.2019 20:32:51

Date: 11.NOV.2019 20:33:45

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.NOV.2019 20:41:53

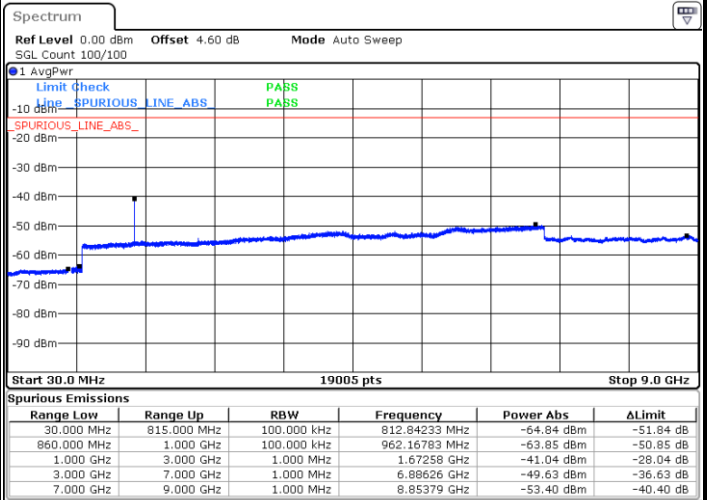
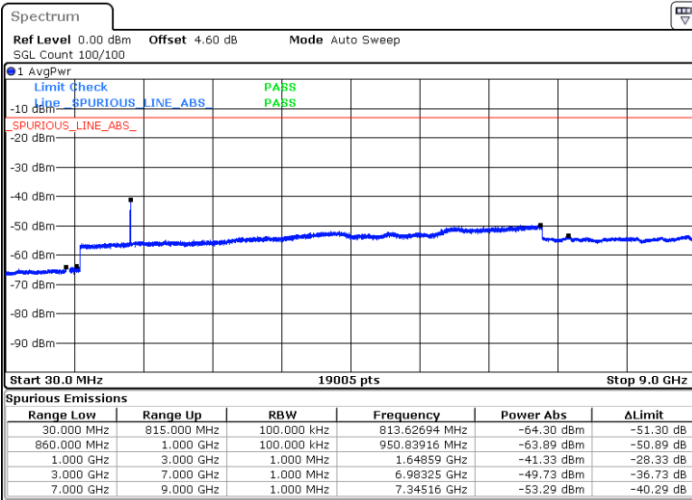
Date: 11.NOV.2019 20:42:46



LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

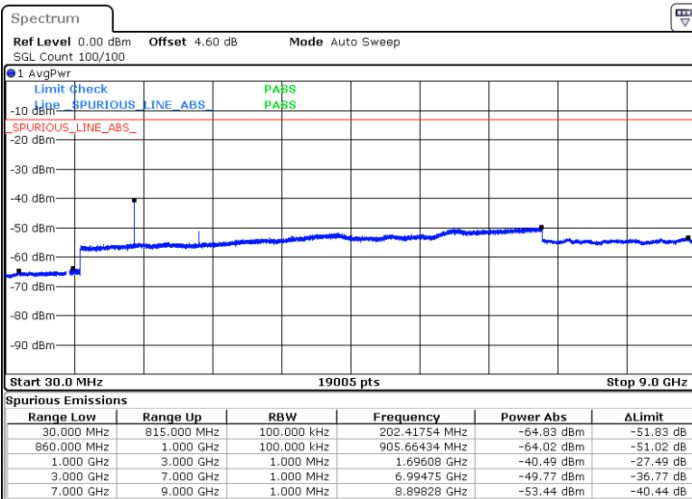
Middle Channel / 64QAM



Date: 11.NOV.2019 20:52:44

Date: 11.NOV.2019 20:53:37

Highest Channel / 64QAM



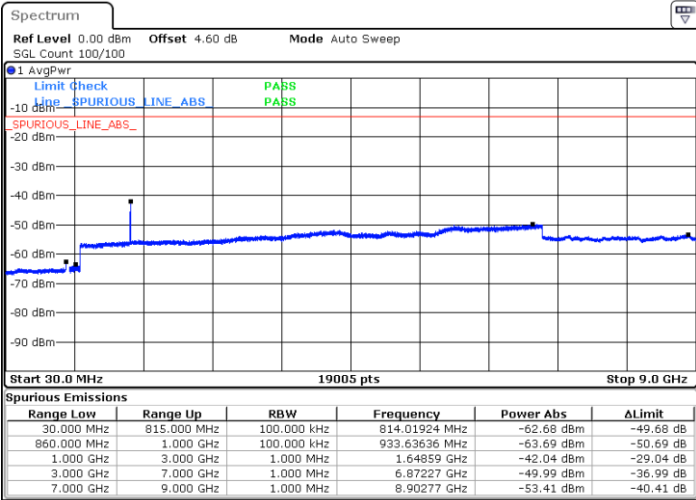
Date: 11.NOV.2019 20:58:28



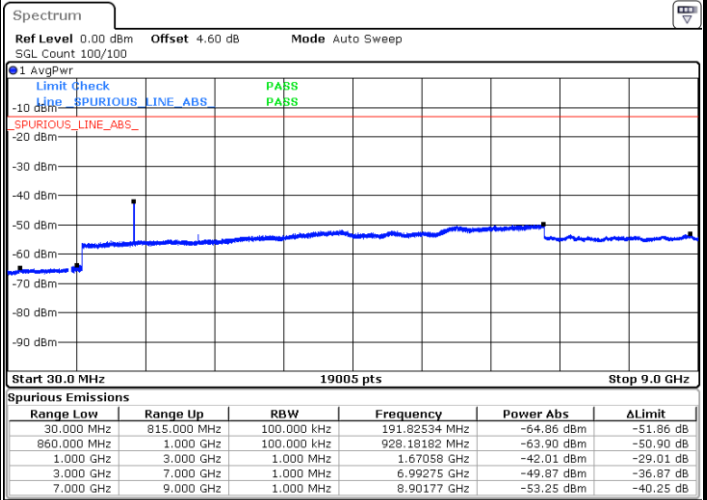
LTE Band 5 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

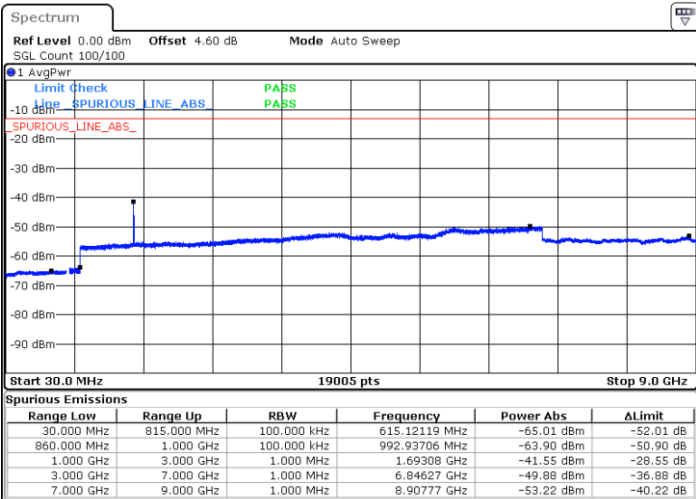


Date: 11.NOV.2019 21:02:59

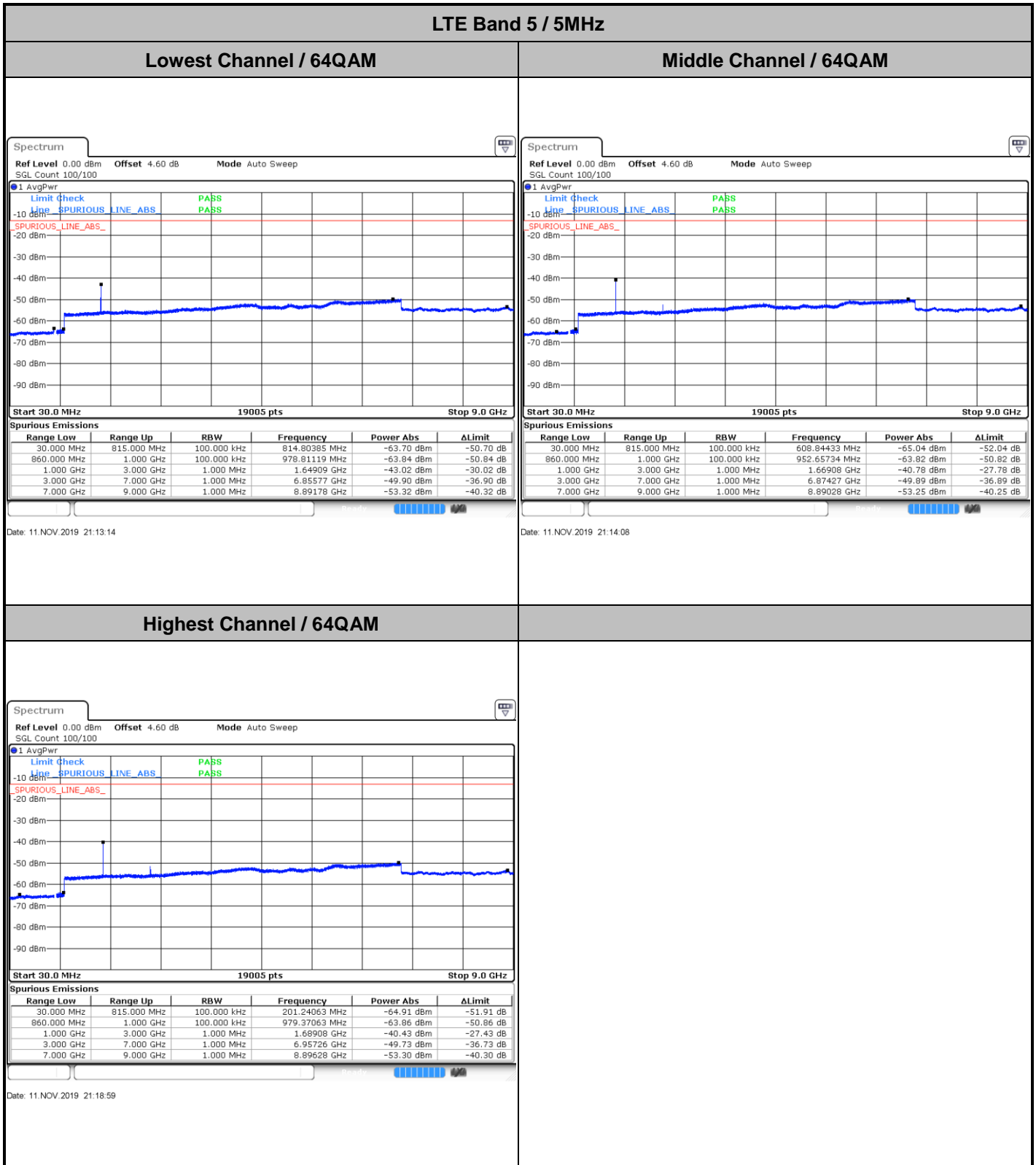


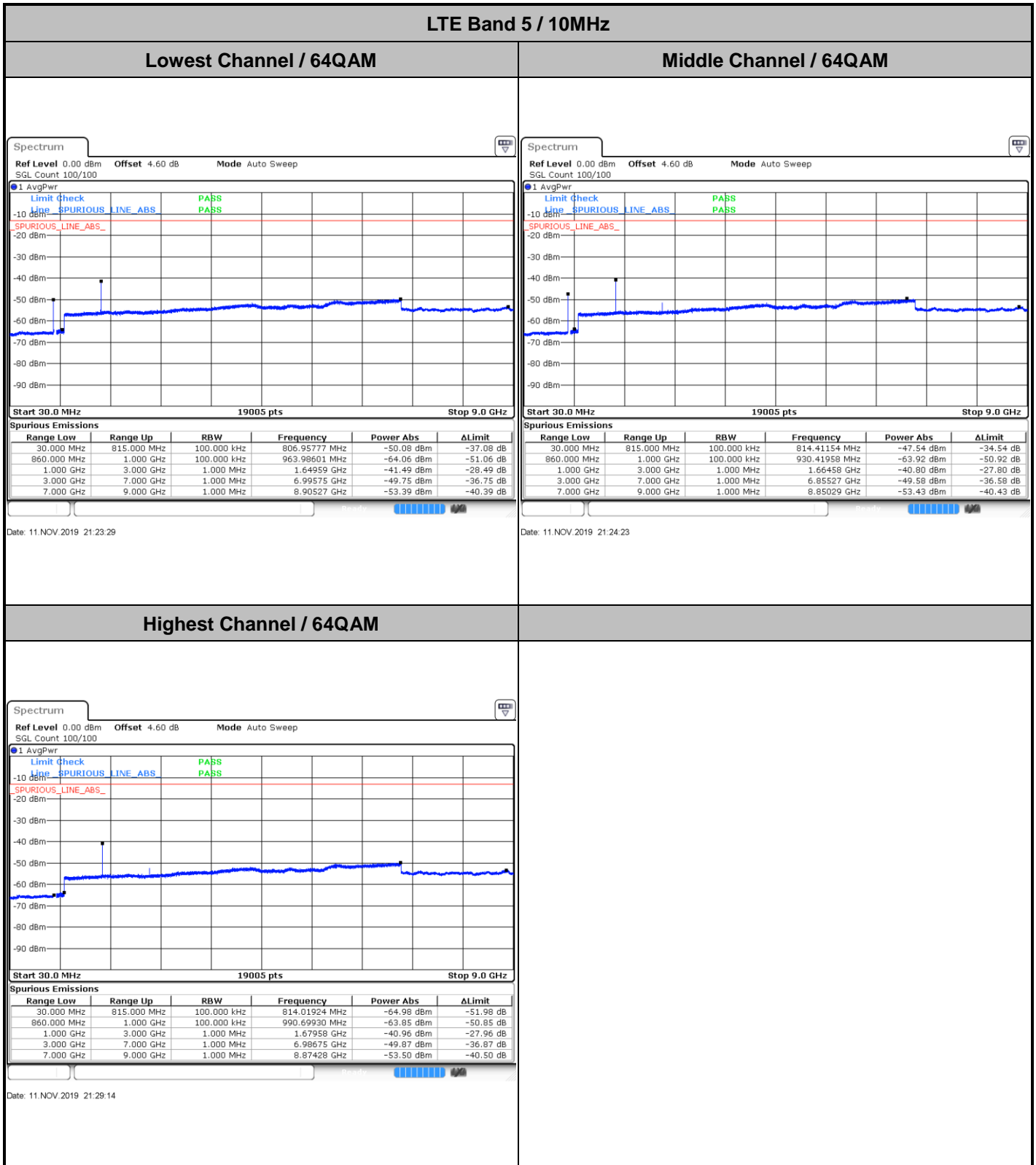
Date: 11.NOV.2019 21:03:53

Highest Channel / 64QAM



Date: 11.NOV.2019 21:08:43







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	0.0011	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0049	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

Note: Normal Voltage =3.8 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.2 V.



LTE Band 7

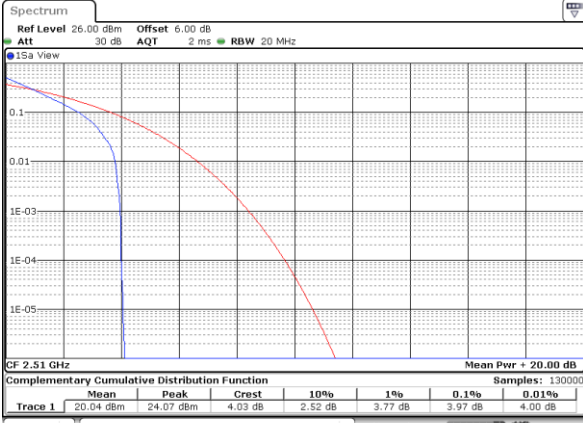
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.97	4.23	4.81	5.28	PASS
Middle CH	3.74	4.17	4.70	5.30	
Highest CH	4.06	4.20	5.01	5.33	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.84	5.25	PASS		
Middle CH	4.58	5.28			
Highest CH	4.70	5.30			



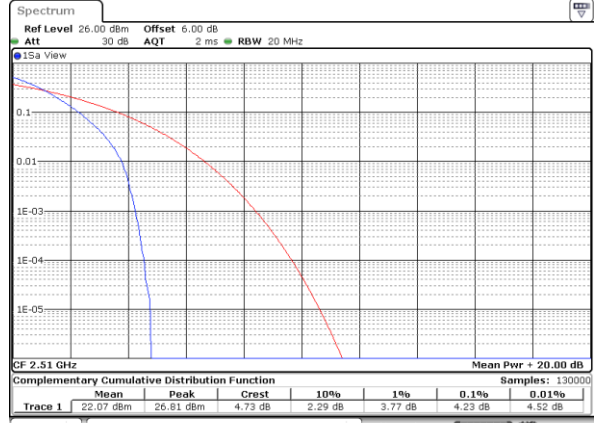
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



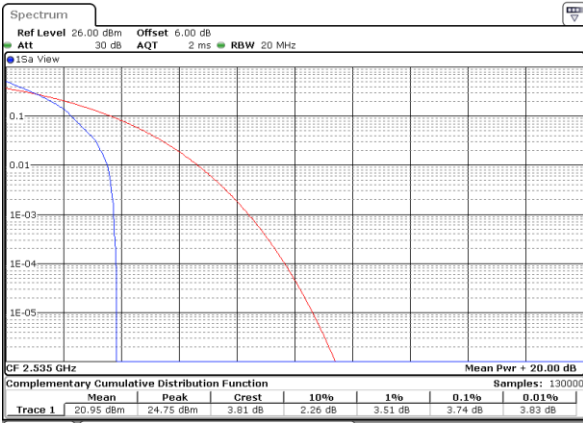
Date: 12 NOV 2019 20:51:39

Lowest Channel / Full RB



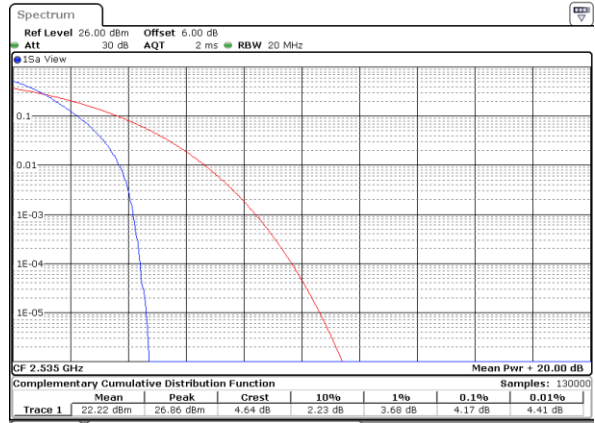
Date: 12 NOV 2019 20:51:48

Middle Channel / 1RB



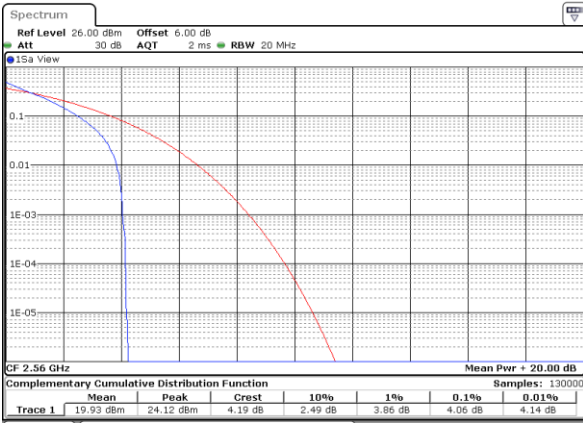
Date: 12 NOV 2019 20:52:28

Middle Channel / Full RB



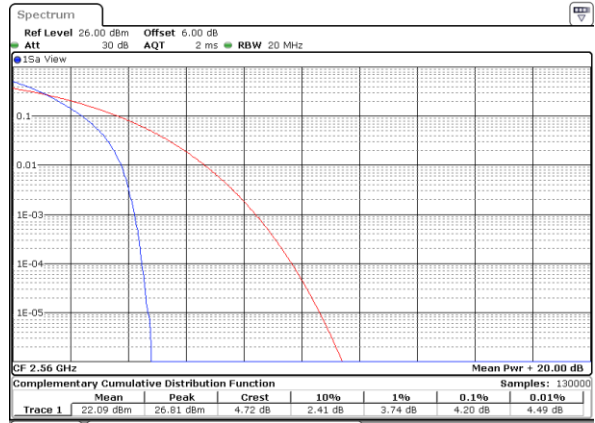
Date: 12 NOV 2019 20:52:18

Highest Channel / 1RB



Date: 12 NOV 2019 20:52:57

Highest Channel / Full RB

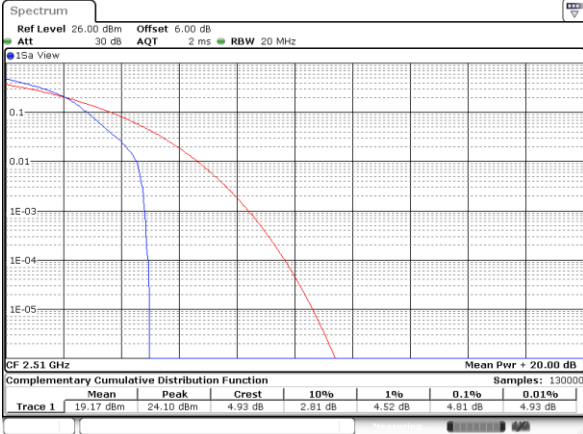


Date: 12 NOV 2019 20:53:06



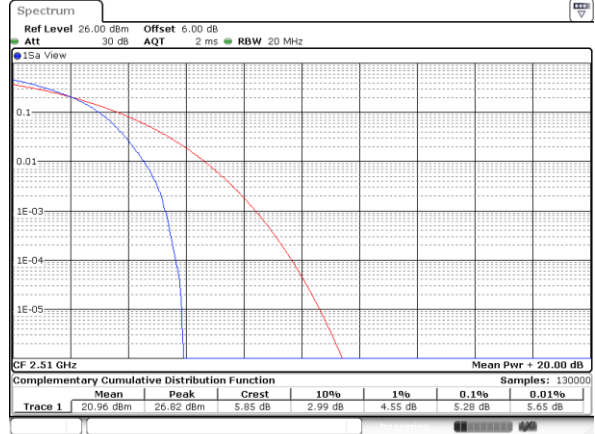
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



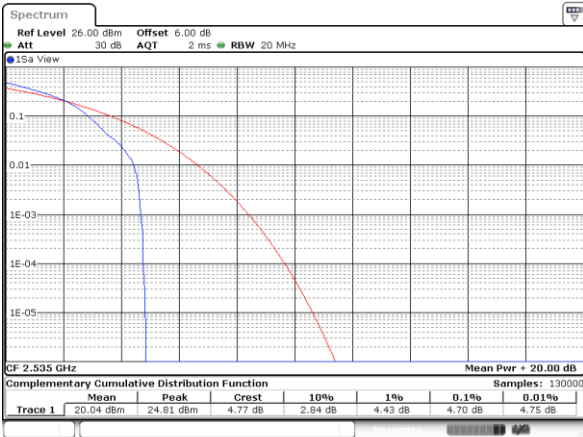
Date: 12 NOV 2019 20:51:30

Lowest Channel / Full RB



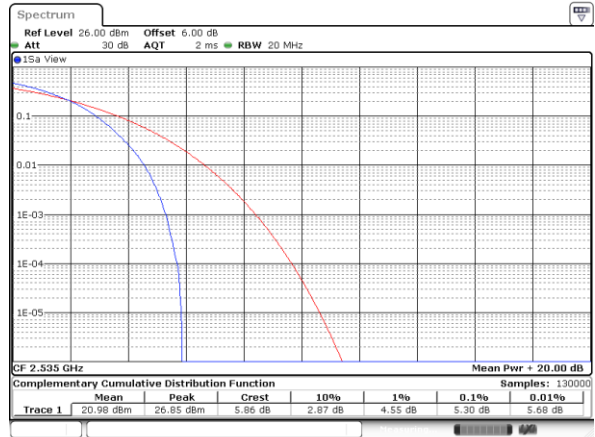
Date: 12 NOV 2019 20:51:57

Middle Channel / 1RB



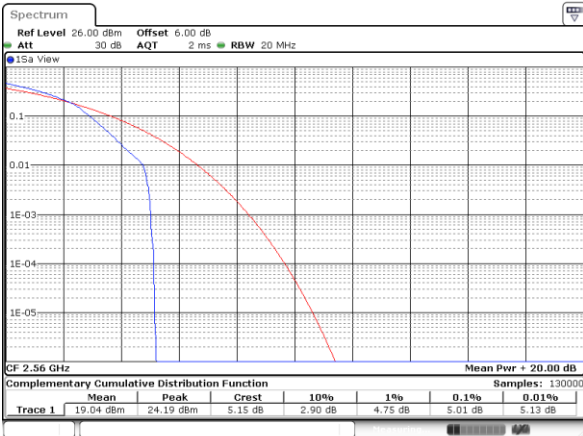
Date: 12 NOV 2019 20:52:38

Middle Channel / Full RB



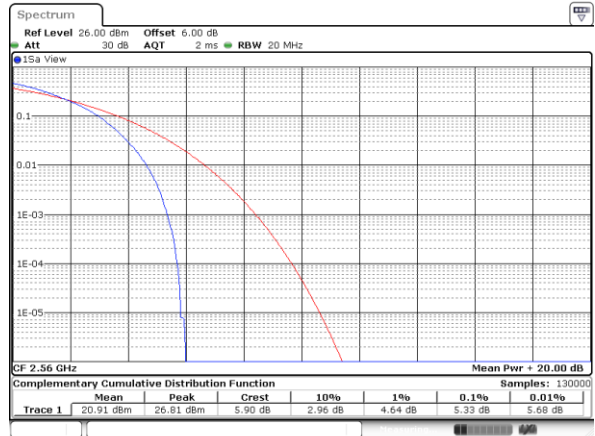
Date: 12 NOV 2019 20:52:06

Highest Channel / 1RB



Date: 12 NOV 2019 20:52:47

Highest Channel / Full RB

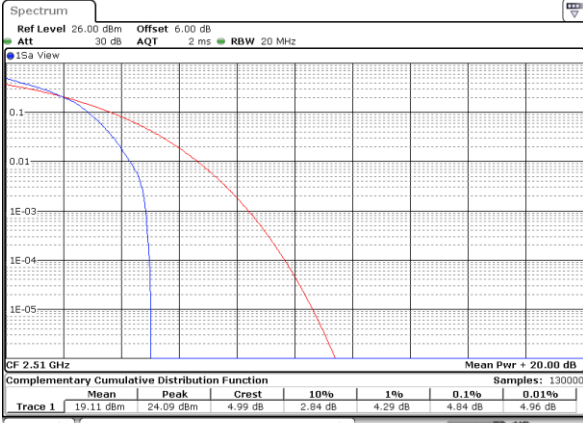


Date: 12 NOV 2019 20:53:15



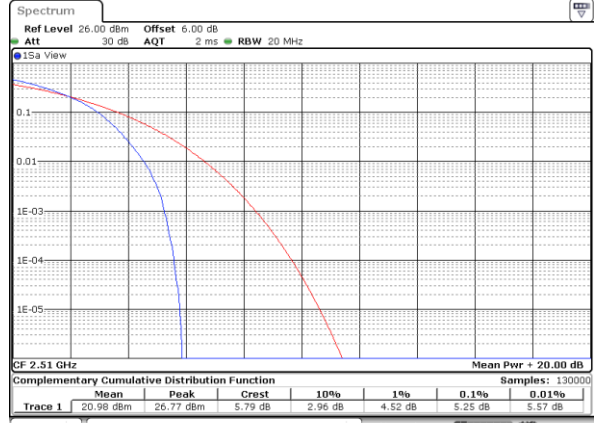
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



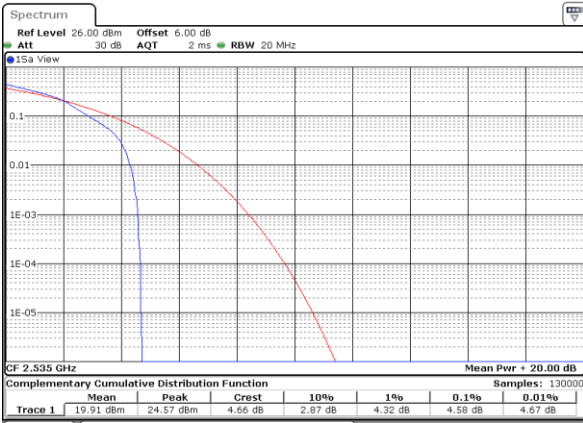
Date: 12 NOV 2019 20:50:35

Lowest Channel / Full RB



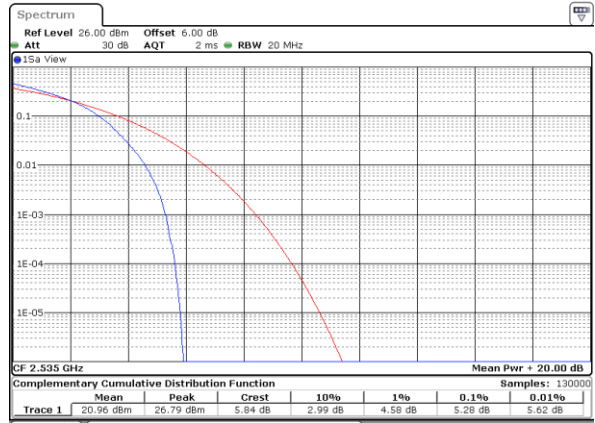
Date: 12 NOV 2019 20:50:45

Middle Channel / 1RB



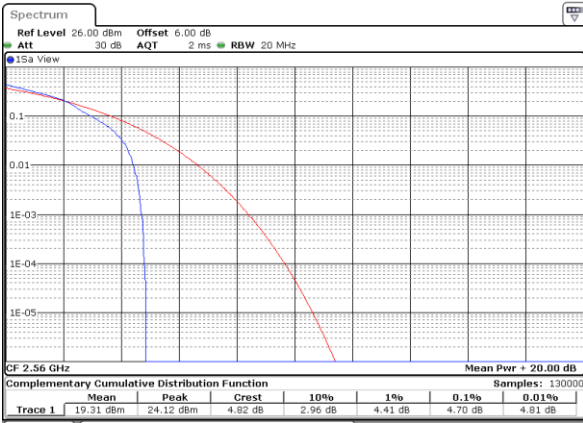
Date: 12 NOV 2019 20:51:03

Middle Channel / Full RB



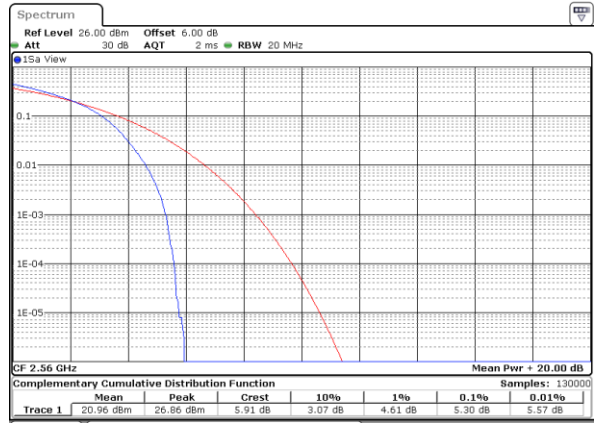
Date: 12 NOV 2019 20:50:54

Highest Channel / 1RB



Date: 12 NOV 2019 20:51:12

Highest Channel / Full RB



Date: 12 NOV 2019 20:51:21



26dB Bandwidth

Mode												
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.905	4.895	9.73	9.69	14.476	14.416	20.06	20.18	4.895	9.89	14.356	20.22
Middle CH	4.925	4.915	9.65	9.67	14.236	14.476	20.06	20.26	4.825	9.87	14.505	20.1
Highest CH	4.915	4.875	9.75	9.89	14.386	14.446	20.14	20.18	4.915	9.83	14.356	20.18