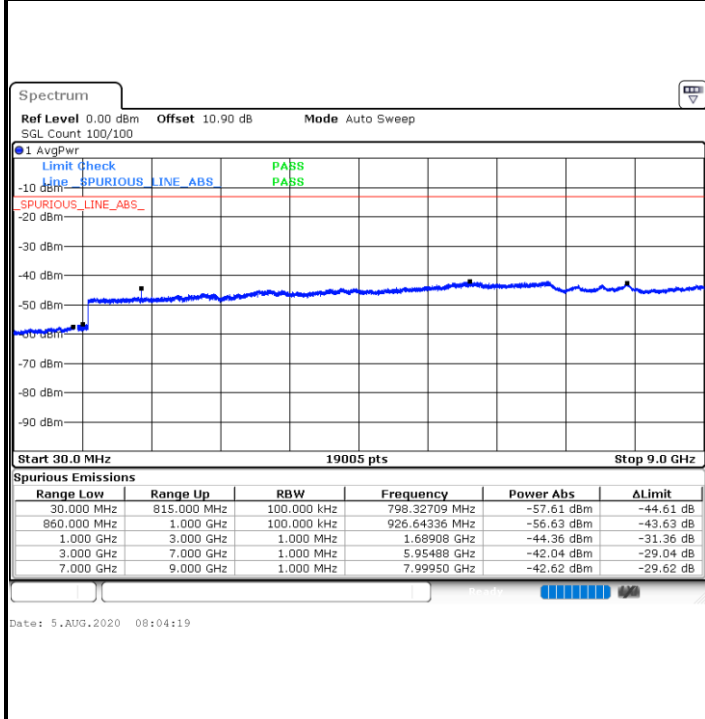


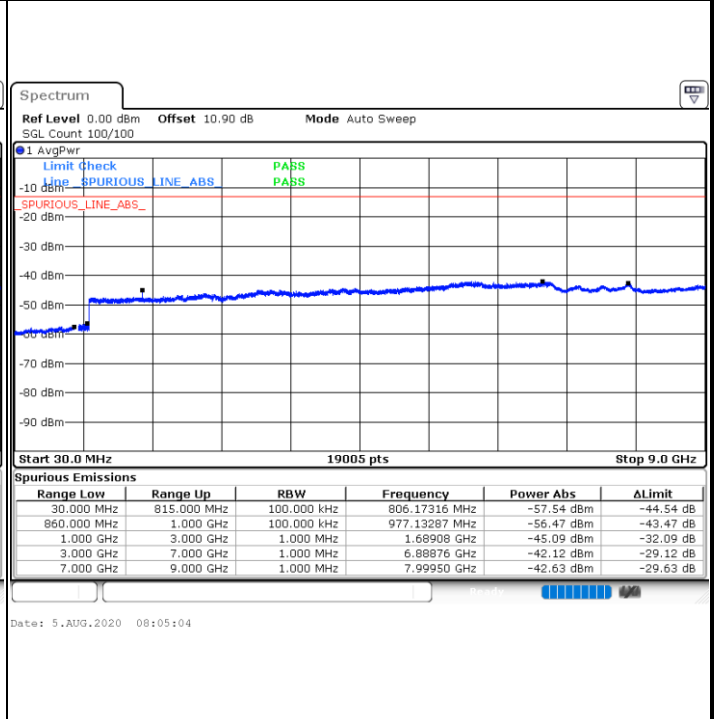


**LTE Band 5 / 5MHz**

**Highest Channel / QPSK**

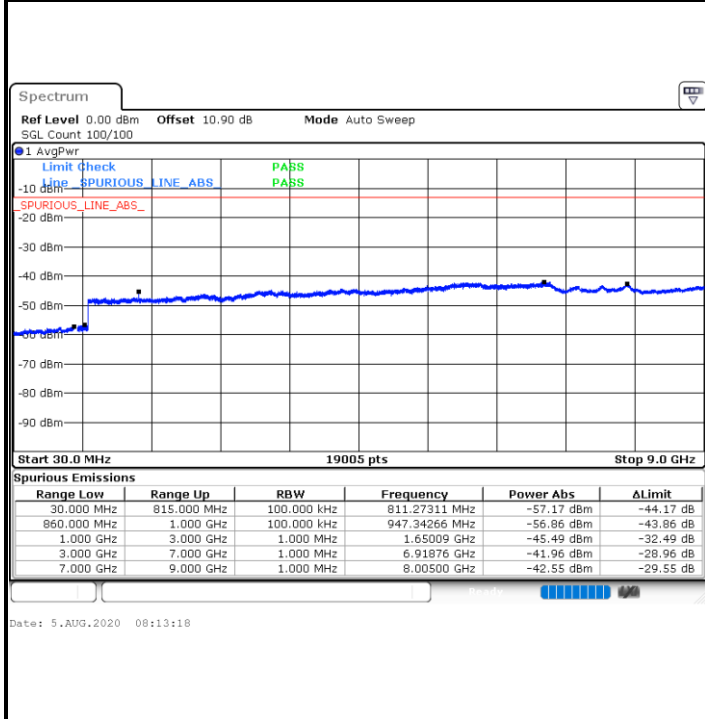


**Highest Channel / 16QAM**

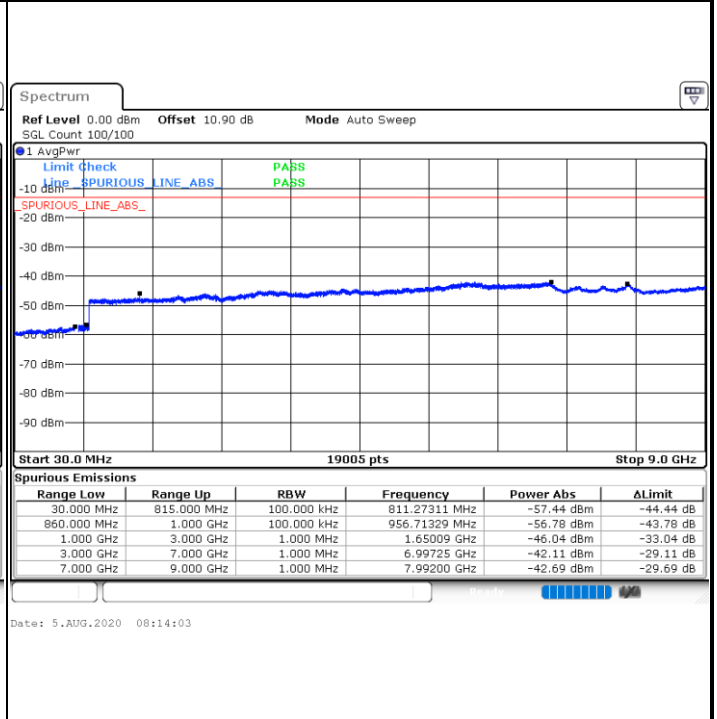


**LTE Band 5 / 10MHz**

**Lowest Channel / QPSK**



**Lowest Channel / 16QAM**

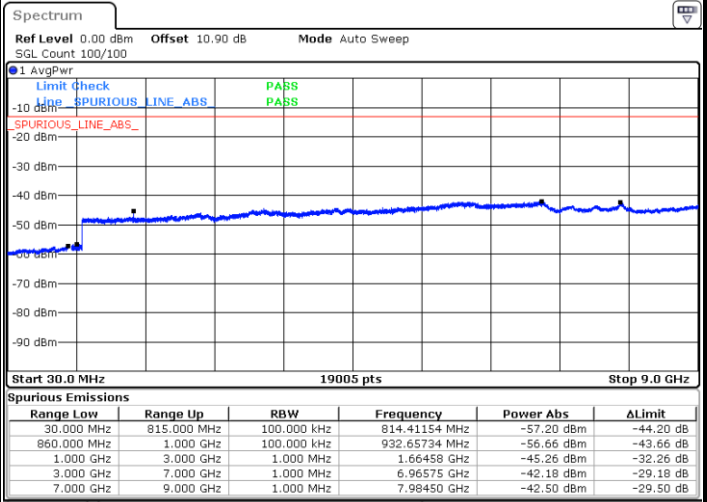
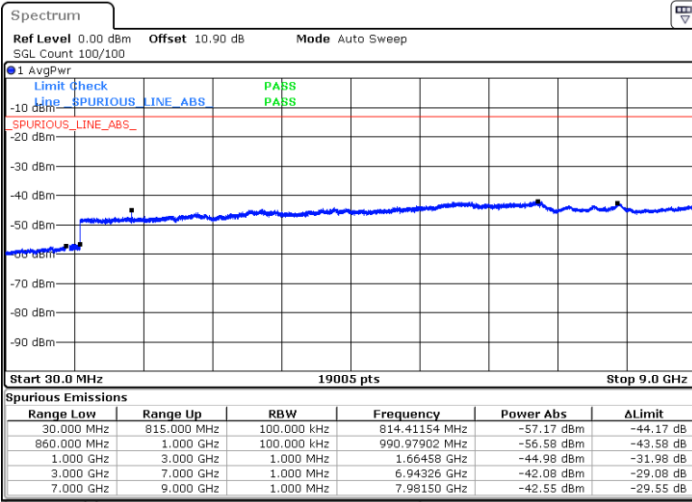




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

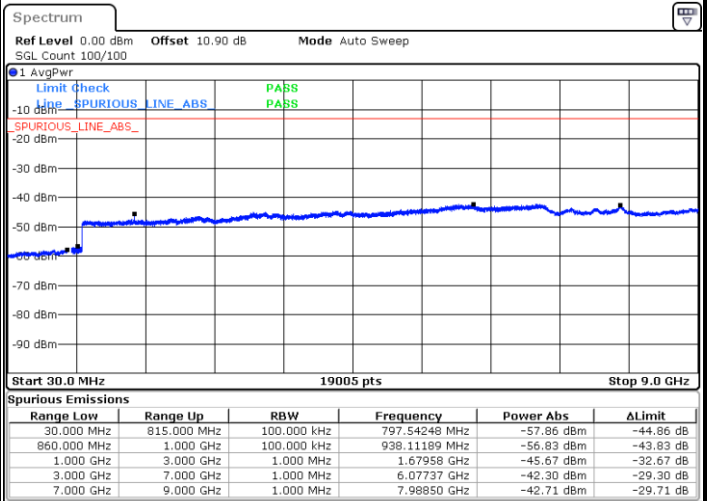
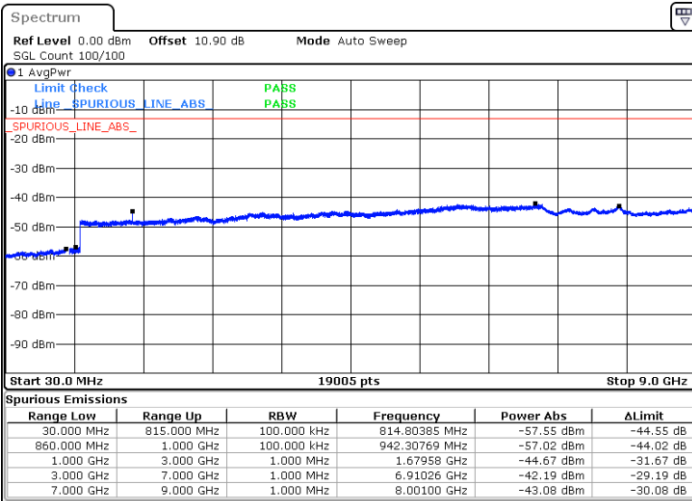


Date: 5.AUG.2020 08:15:34

Date: 5.AUG.2020 08:16:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5.AUG.2020 23:05:50

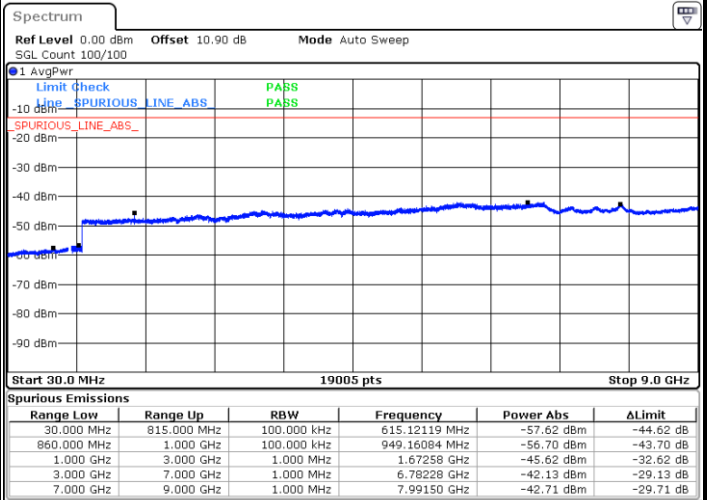
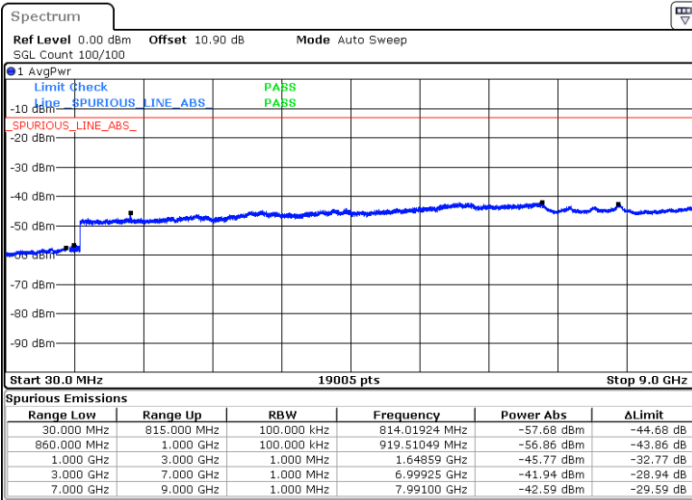
Date: 5.AUG.2020 23:06:35



LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

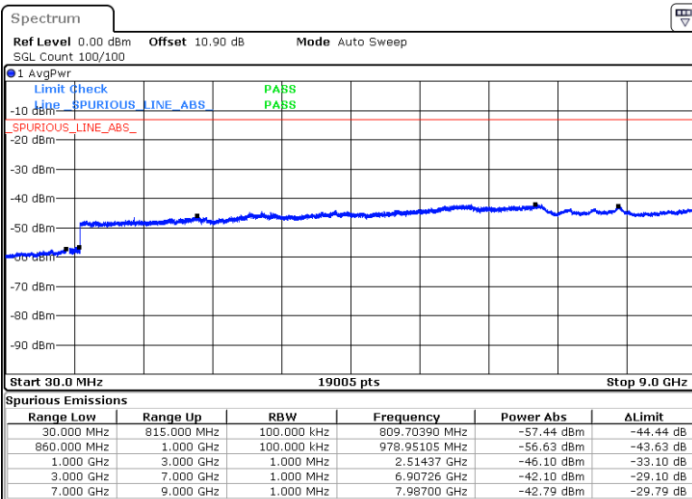
Middle Channel / 64QAM



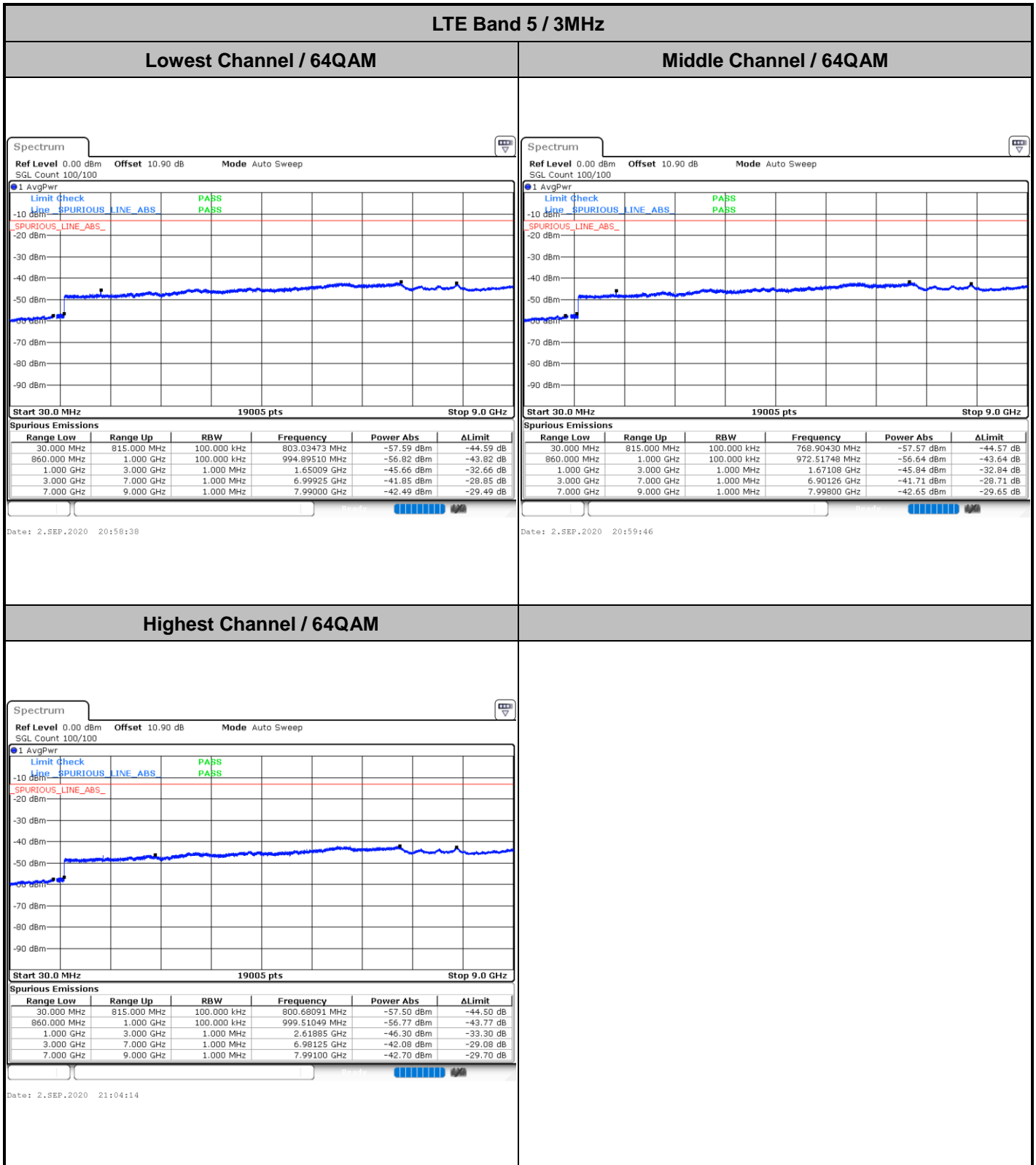
Date: 2.SEP.2020 21:54:29

Date: 2.SEP.2020 21:55:37

Highest Channel / 64QAM



Date: 2.SEP.2020 21:42:08

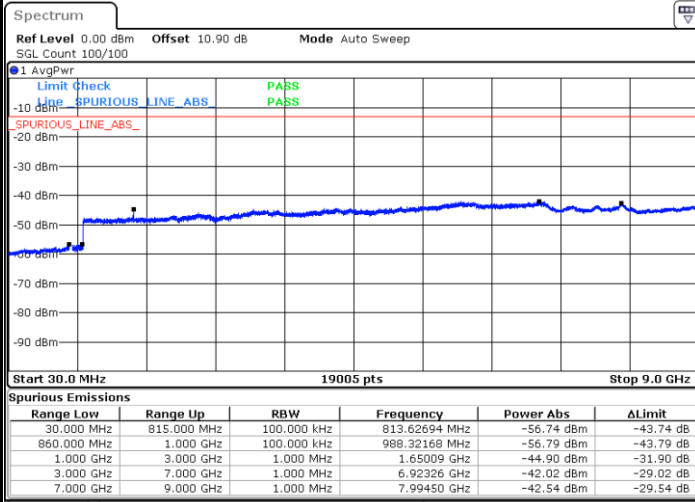




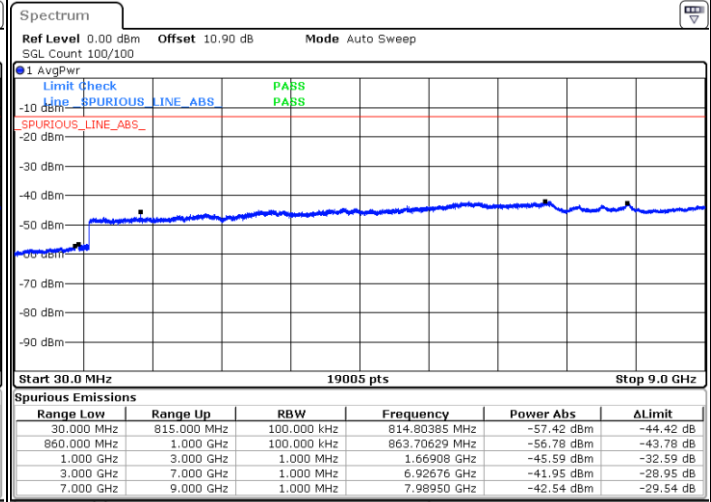
LTE Band 5 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

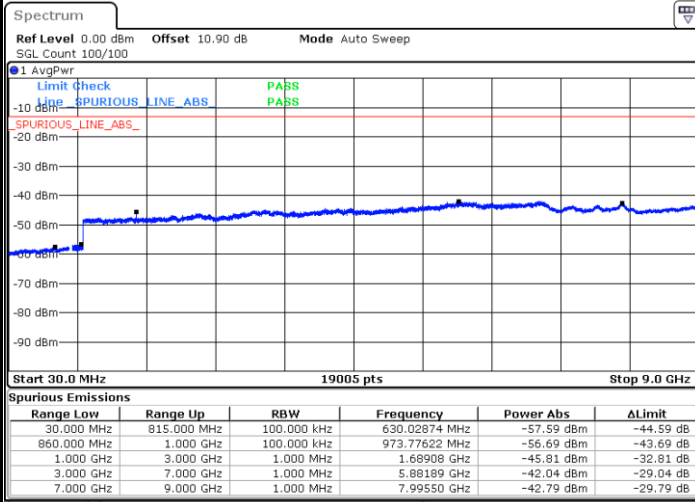


Date: 2.SEP.2020 21:08:43



Date: 2.SEP.2020 21:09:50

Highest Channel / 64QAM



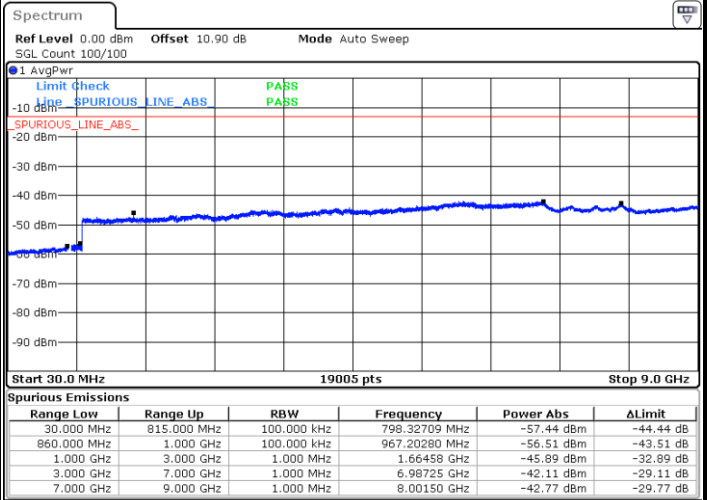
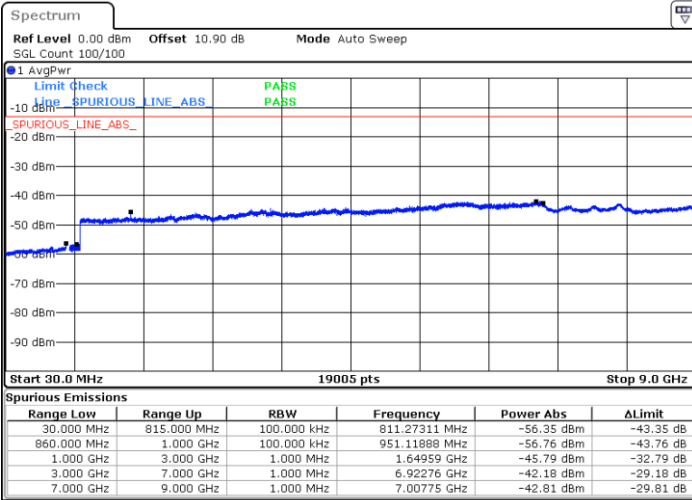
Date: 2.SEP.2020 21:14:18



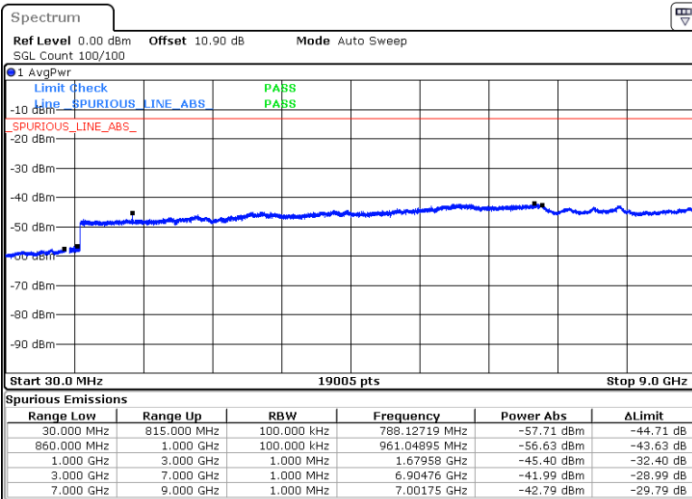
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



Highest Channel / 64QAM





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	0.0027	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0155	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0075	
0	Normal Voltage	0.0118	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0126	
20	Maximum Voltage	0.0097	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0147	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 7

### Peak-to-Average Ratio

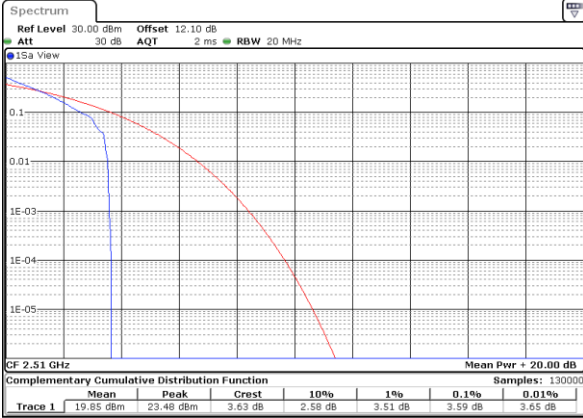
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.29	5.36	5.74	<b>PASS</b>
Middle CH	3.57	4.52	5.51	6.00	
Highest CH	3.39	4.61	4.96	5.94	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.70	6.32	-	-	<b>PASS</b>
Middle CH	6.87	6.58	-	-	
Highest CH	5.97	6.58	-	-	





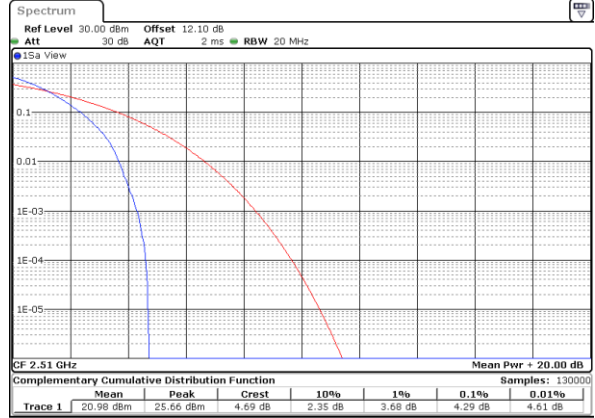
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



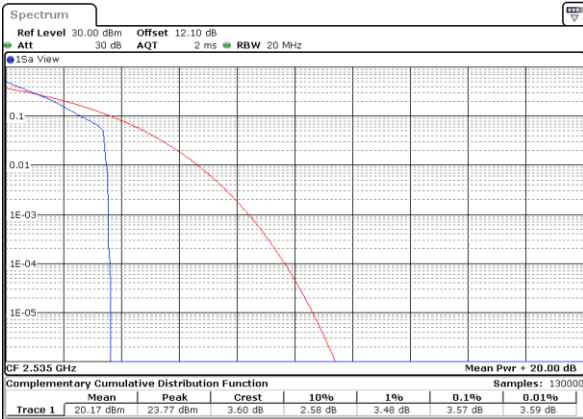
Date: 6.AUG.2020 07:17:15

Lowest Channel / Full RB



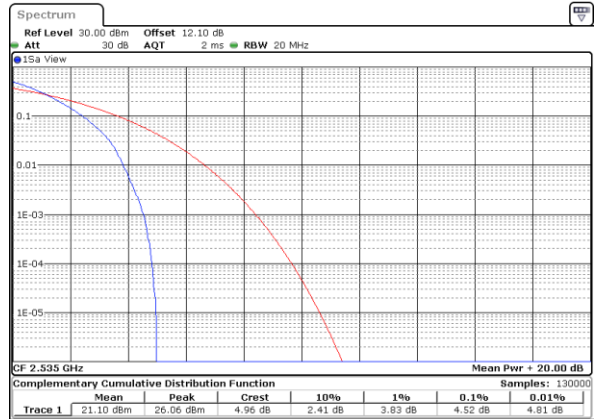
Date: 6.AUG.2020 07:17:25

Middle Channel / 1RB



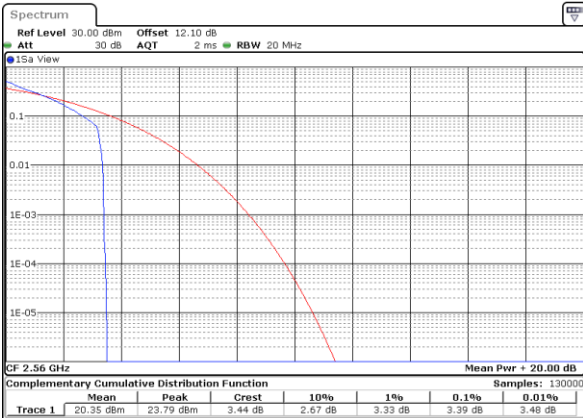
Date: 6.AUG.2020 07:17:34

Middle Channel / Full RB



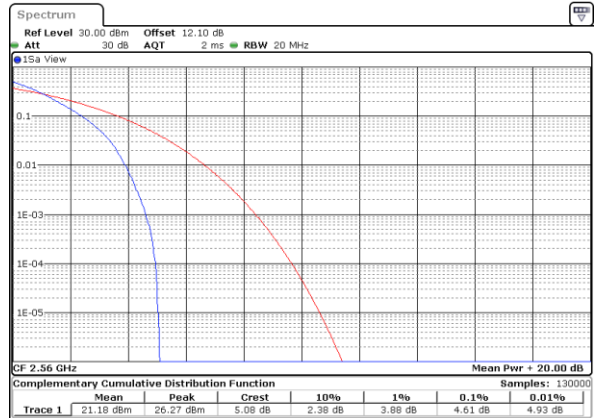
Date: 6.AUG.2020 07:17:44

Highest Channel / 1RB



Date: 6.AUG.2020 07:17:53

Highest Channel / Full RB

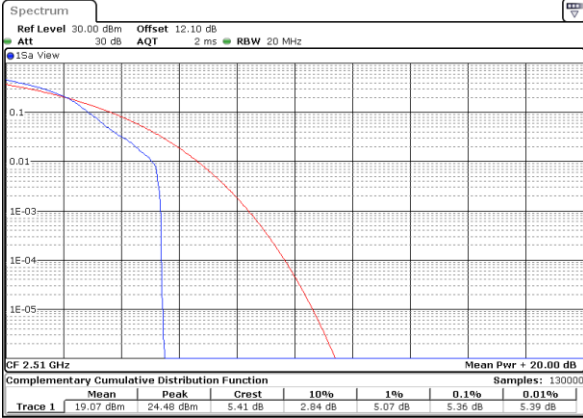


Date: 6.AUG.2020 07:18:03



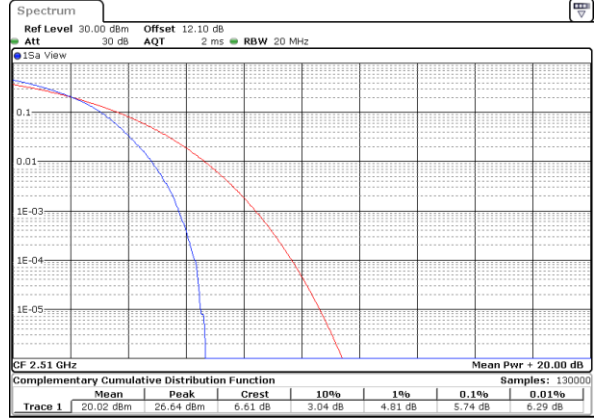
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 6.AUG.2020 07:16:16

Lowest Channel / Full RB



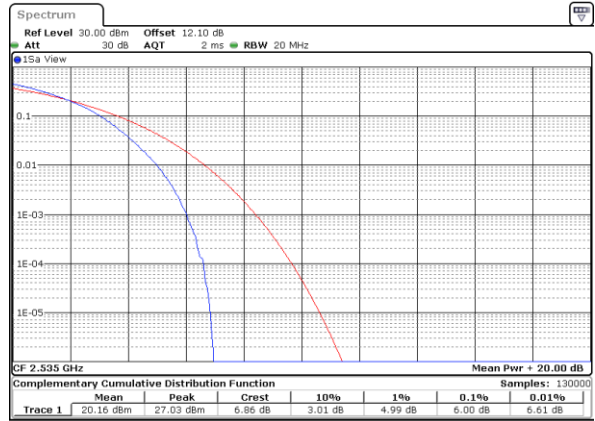
Date: 6.AUG.2020 07:16:26

Middle Channel / 1RB



Date: 6.AUG.2020 07:16:36

Middle Channel / Full RB



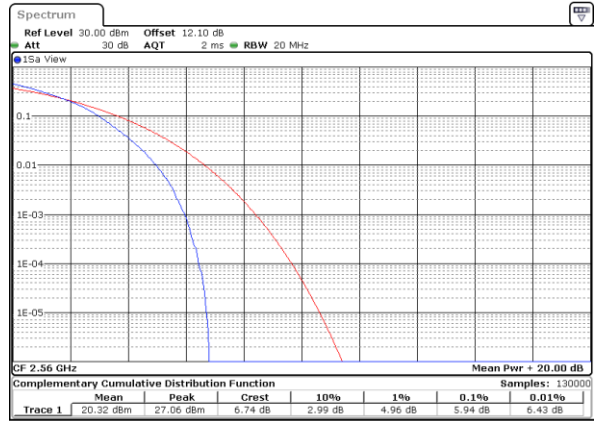
Date: 6.AUG.2020 07:16:45

Highest Channel / 1RB



Date: 6.AUG.2020 07:16:55

Highest Channel / Full RB

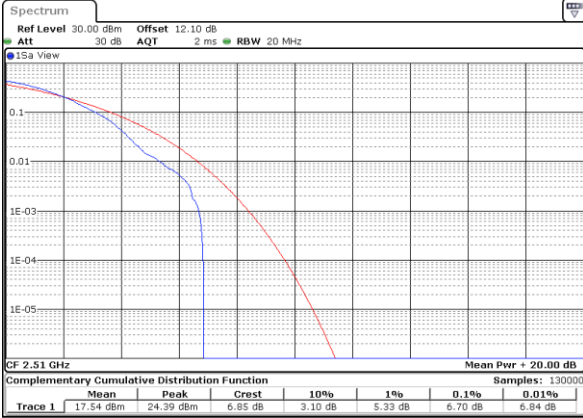


Date: 6.AUG.2020 07:17:05



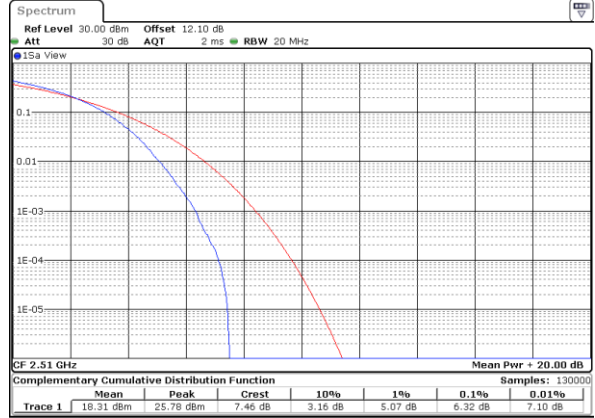
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



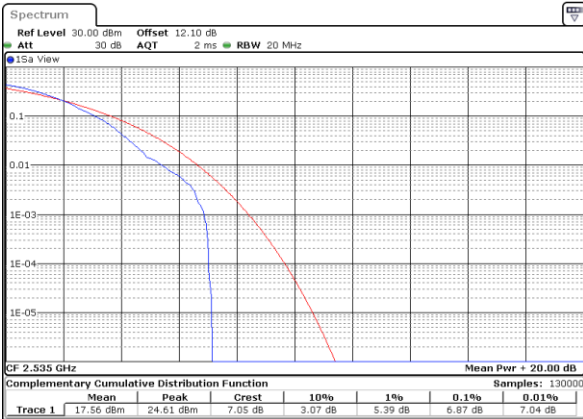
Date: 3,SEP,2020 19:19:45

Lowest Channel / Full RB



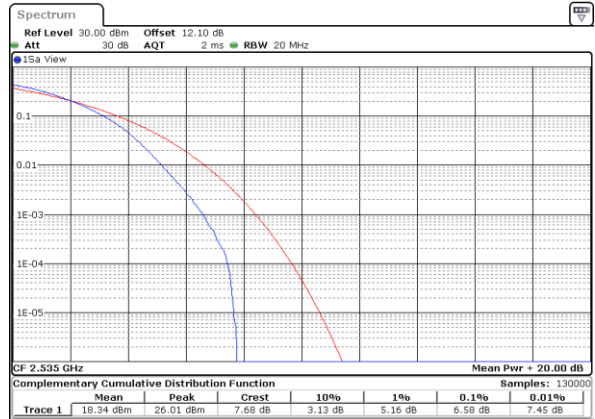
Date: 3,SEP,2020 21:24:04

Middle Channel / 1RB



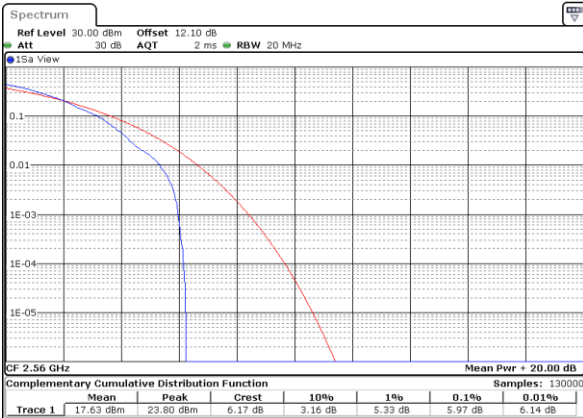
Date: 3,SEP,2020 19:20:05

Middle Channel / Full RB



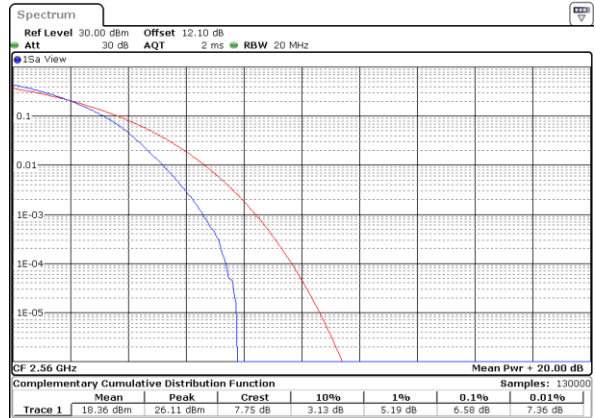
Date: 3,SEP,2020 19:20:14

Highest Channel / 1RB



Date: 3,SEP,2020 19:20:24

Highest Channel / Full RB



Date: 3,SEP,2020 21:25:19



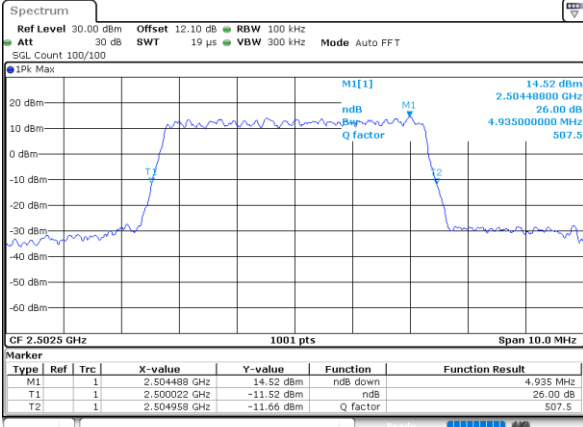
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.94	4.92	9.85	9.77	14.33	14.39	18.74	19.30
Middle CH	-	-	-	-	4.89	4.94	9.63	9.89	14.36	14.30	18.90	18.82
Highest CH	-	-	-	-	4.97	4.87	9.79	9.77	14.51	14.48	19.10	18.98
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	9.65	-	14.39	-	18.78	-
Middle CH	-	-	-	-	4.95	-	9.81	-	14.39	-	19.22	-
Highest CH	-	-	-	-	4.89	-	9.69	-	14.27	-	18.78	-



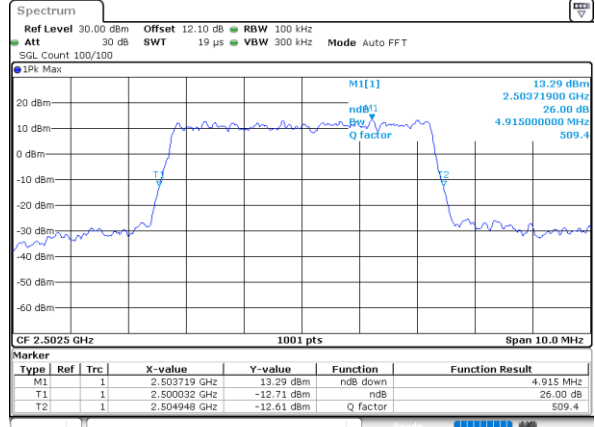
LTE Band 7

Lowest Channel / 5MHz / QPSK



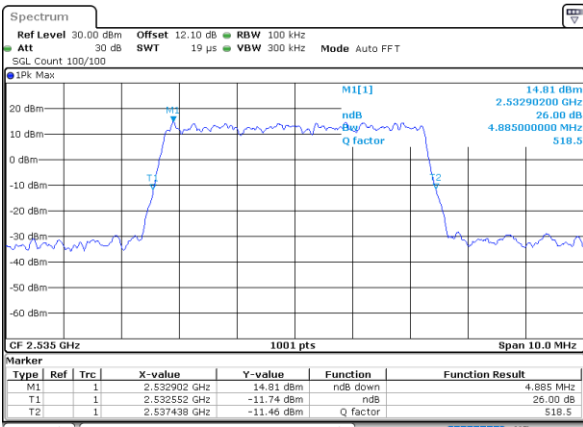
Date: 6.AUG.2020 06:11:29

Lowest Channel / 5MHz / 16QAM



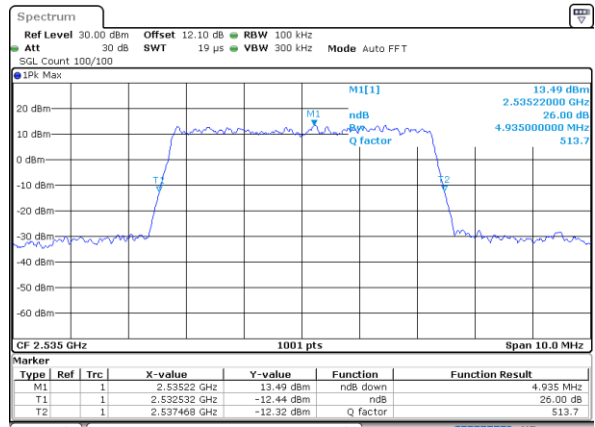
Date: 6.AUG.2020 06:11:40

Middle Channel / 5MHz / QPSK



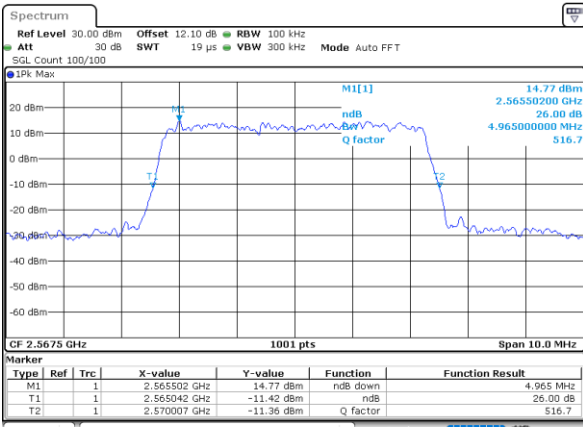
Date: 6.AUG.2020 06:11:56

Middle Channel / 5MHz / 16QAM



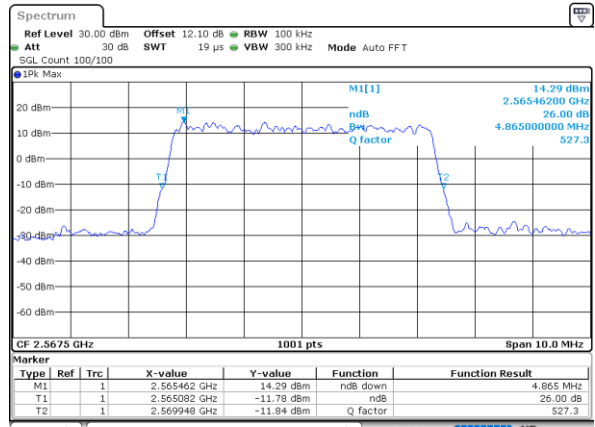
Date: 6.AUG.2020 06:11:57

Highest Channel / 5MHz / QPSK



Date: 6.AUG.2020 06:11:21

Highest Channel / 5MHz / 16QAM

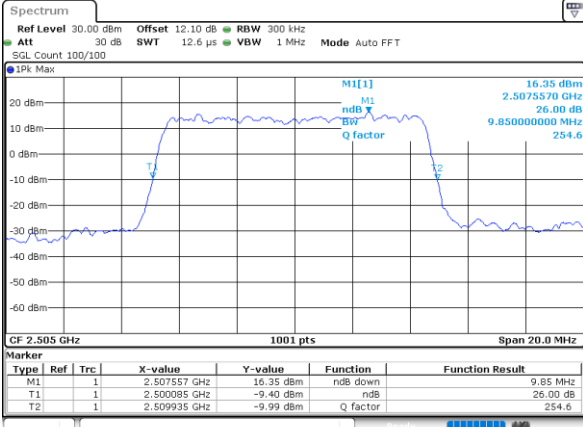


Date: 6.AUG.2020 06:11:32



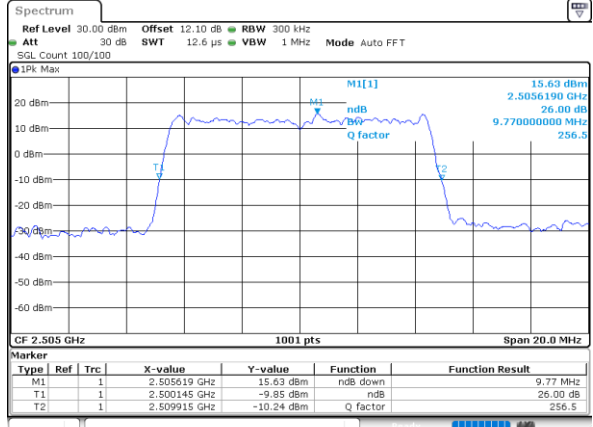
LTE Band 7

Lowest Channel / 10MHz / QPSK



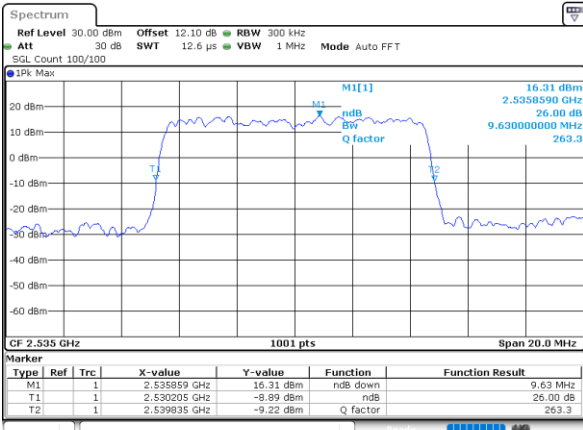
Date: 6.AUG.2020 06:12:149

Lowest Channel / 10MHz / 16QAM



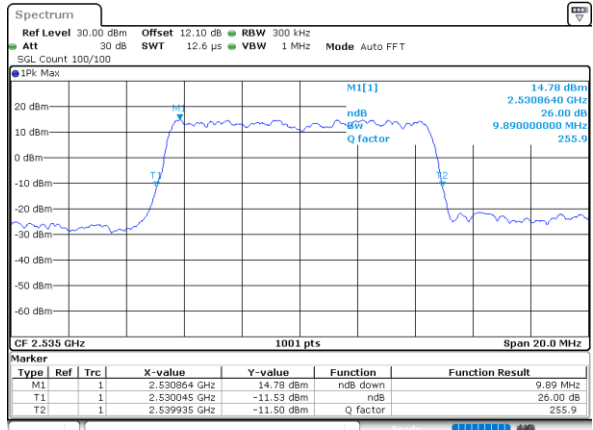
Date: 6.AUG.2020 06:12:01

Middle Channel / 10MHz / QPSK



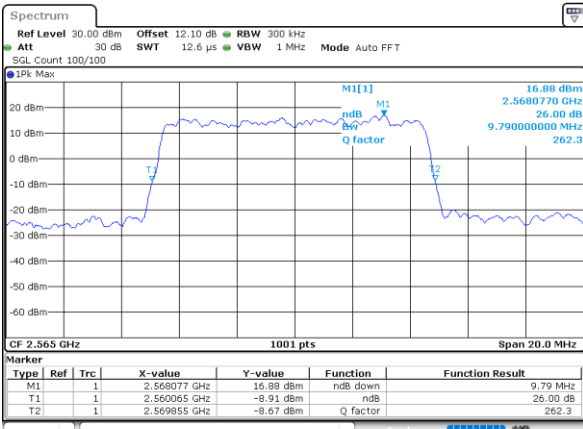
Date: 6.AUG.2020 06:12:115

Middle Channel / 10MHz / 16QAM



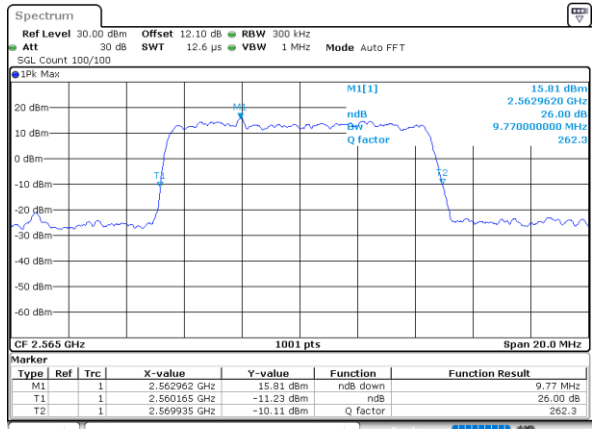
Date: 6.AUG.2020 06:12:126

Highest Channel / 10MHz / QPSK



Date: 6.AUG.2020 06:13:410

Highest Channel / 10MHz / 16QAM

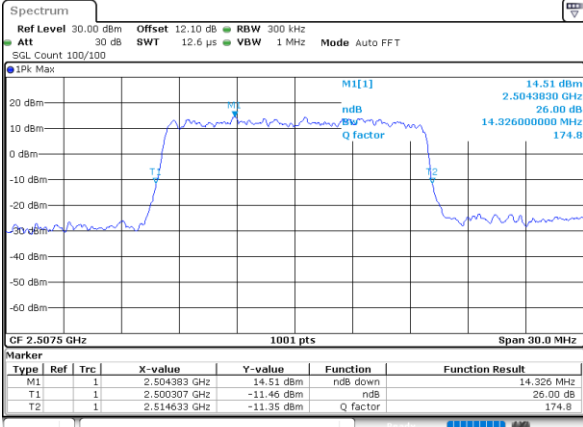


Date: 6.AUG.2020 06:13:411



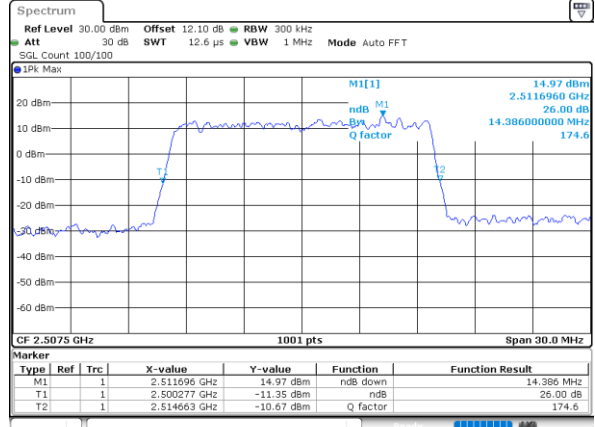
LTE Band 7

Lowest Channel / 15MHz / QPSK



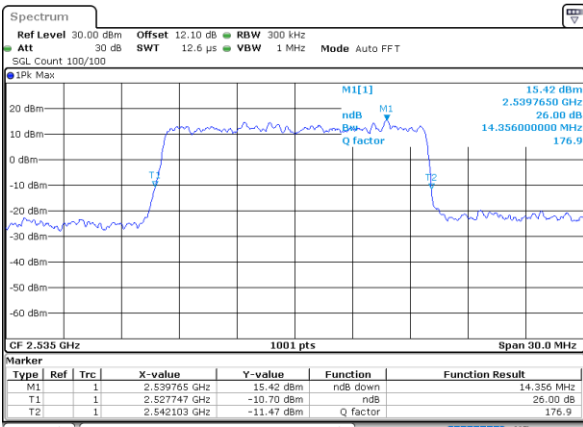
Date: 6.AUG.2020 06:41:08

Lowest Channel / 15MHz / 16QAM



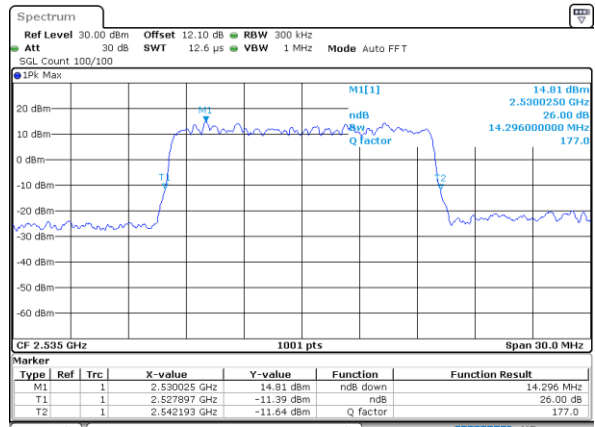
Date: 6.AUG.2020 06:41:20

Middle Channel / 15MHz / QPSK



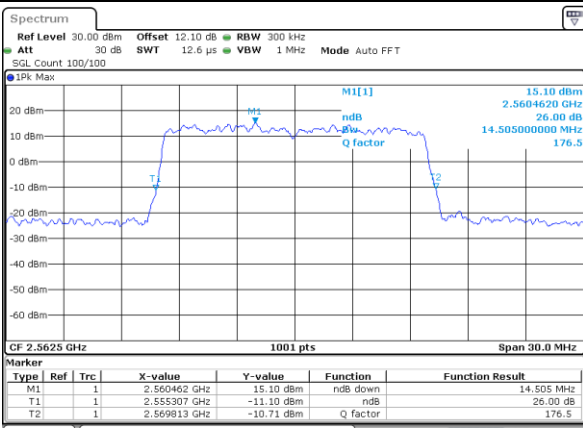
Date: 6.AUG.2020 06:47:36

Middle Channel / 15MHz / 16QAM



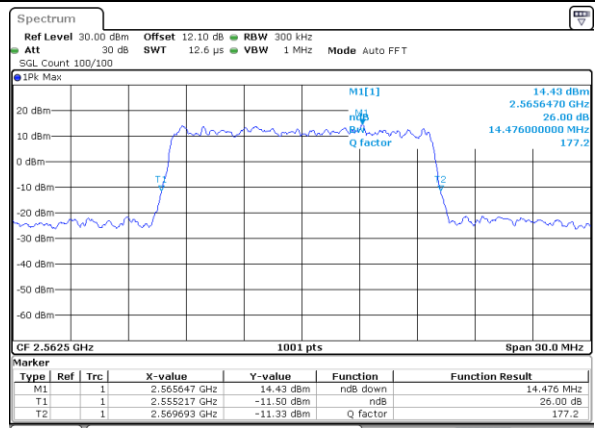
Date: 6.AUG.2020 06:47:47

Highest Channel / 15MHz / QPSK



Date: 6.AUG.2020 06:50:01

Highest Channel / 15MHz / 16QAM

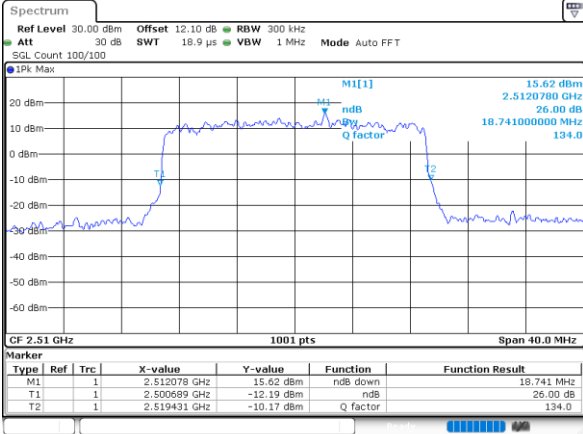


Date: 6.AUG.2020 06:50:13



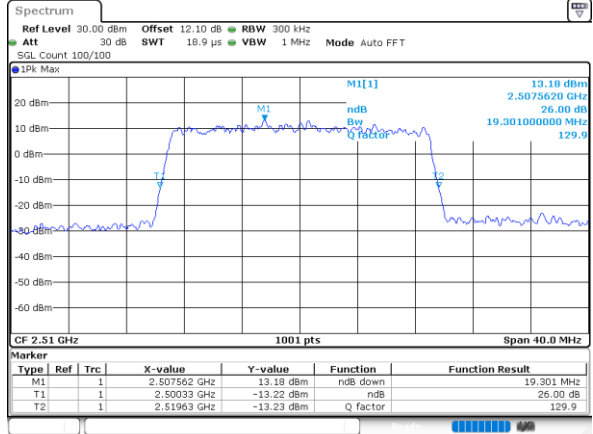
LTE Band 7

Lowest Channel / 20MHz / QPSK



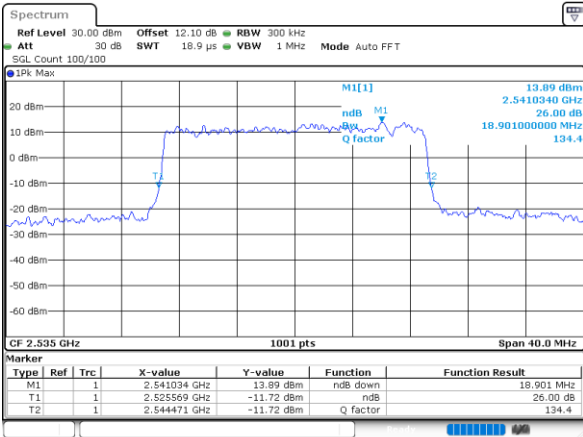
Date: 6.AUG.2020 06:15:29

Lowest Channel / 20MHz / 16QAM



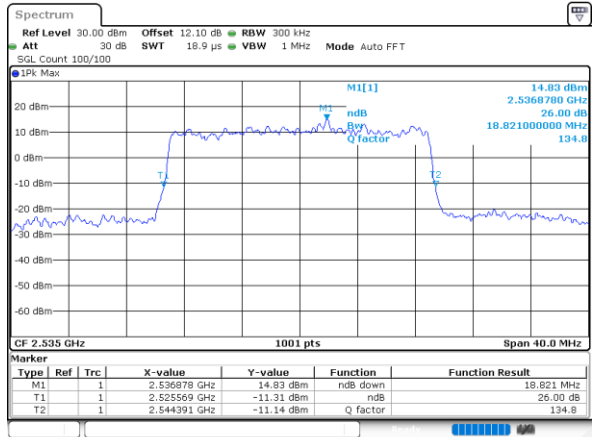
Date: 6.AUG.2020 06:15:41

Middle Channel / 20MHz / QPSK



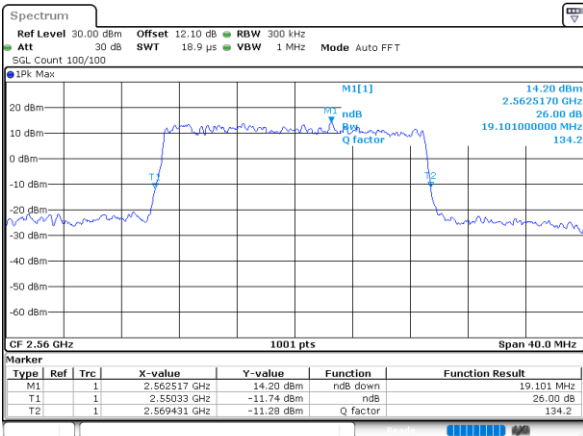
Date: 6.AUG.2020 07:02:17

Middle Channel / 20MHz / 16QAM



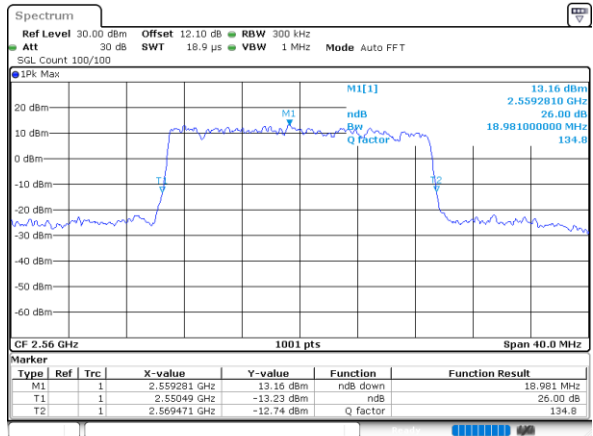
Date: 6.AUG.2020 07:03:09

Highest Channel / 20MHz / QPSK



Date: 6.AUG.2020 07:05:22

Highest Channel / 20MHz / 16QAM



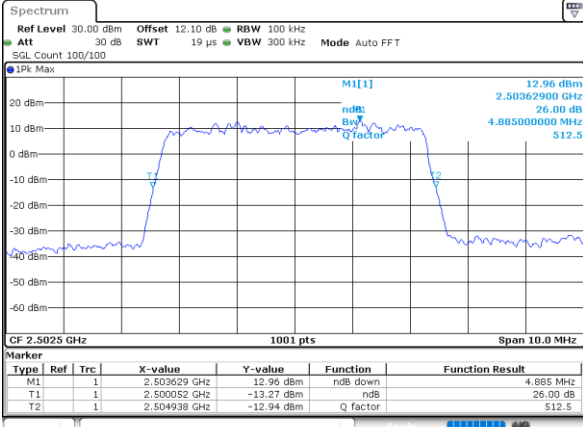
Date: 6.AUG.2020 07:05:34





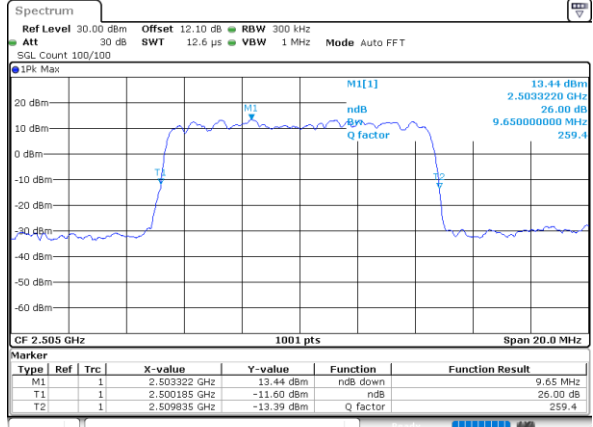
LTE Band 7

Lowest Channel / 5MHz / 64QAM



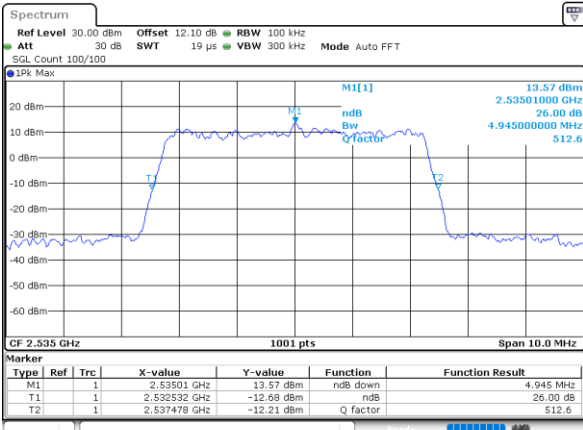
Date: 3,SEP,2020 18:45:14

Lowest Channel / 10MHz / 64QAM



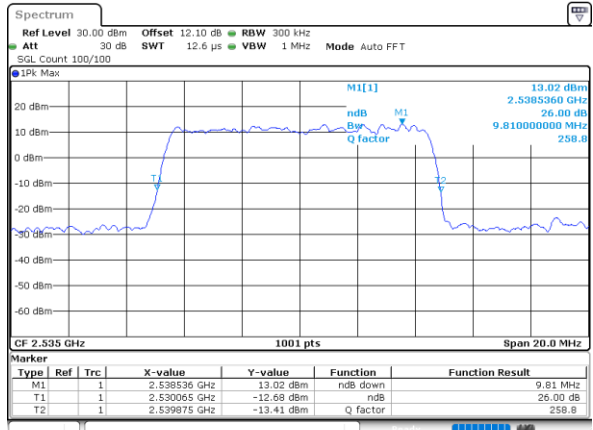
Date: 3,SEP,2020 18:51:54

Middle Channel / 5MHz / 64QAM



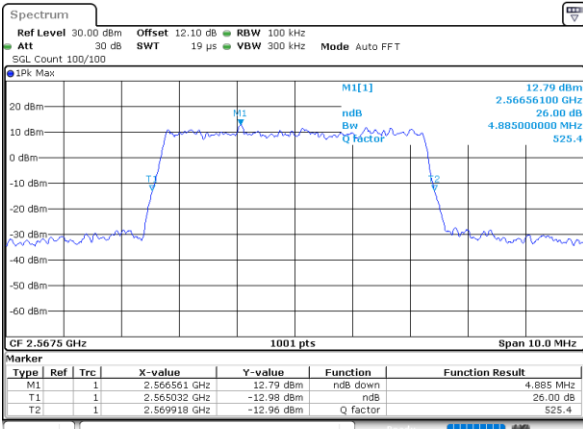
Date: 3,SEP,2020 18:47:57

Middle Channel / 10MHz / 64QAM



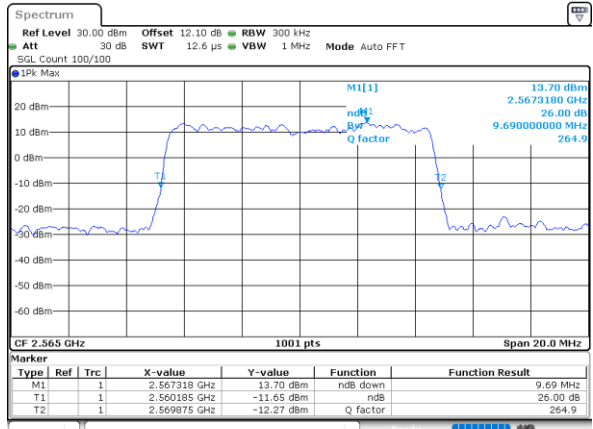
Date: 3,SEP,2020 18:54:36

Highest Channel / 5MHz / 64QAM



Date: 3,SEP,2020 18:49:09

Highest Channel / 10MHz / 64QAM

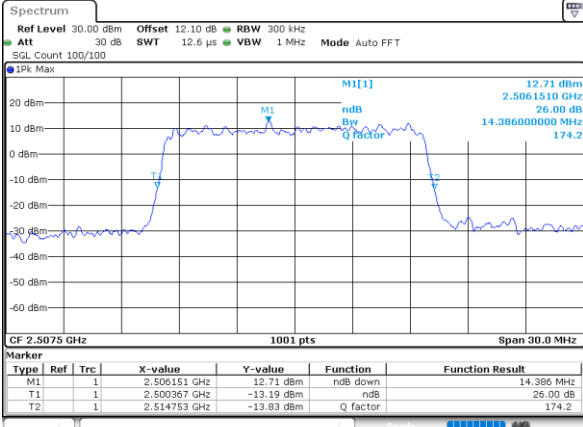


Date: 3,SEP,2020 18:55:48



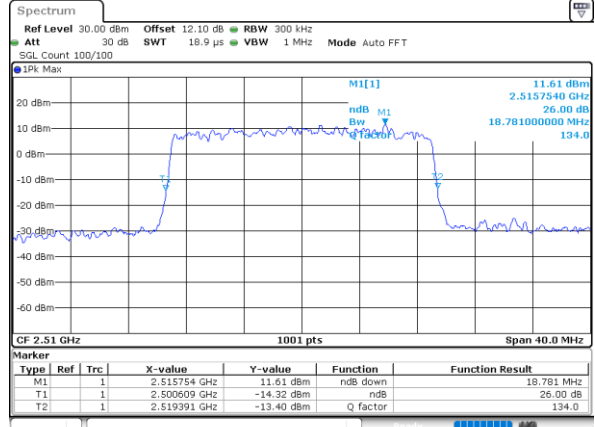
LTE Band 7

Lowest Channel / 15MHz / 64QAM



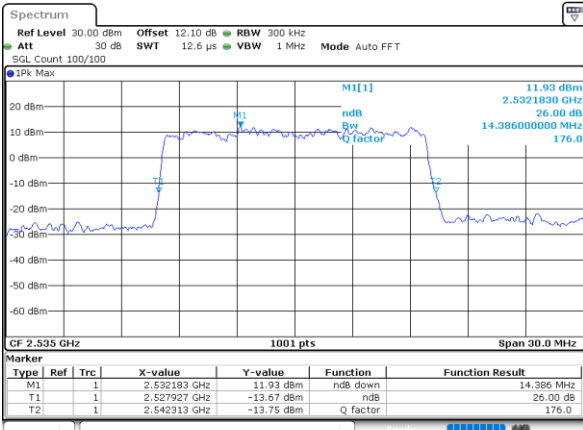
Date: 3,SEP,2020 18:58:32

Lowest Channel / 20MHz / 64QAM



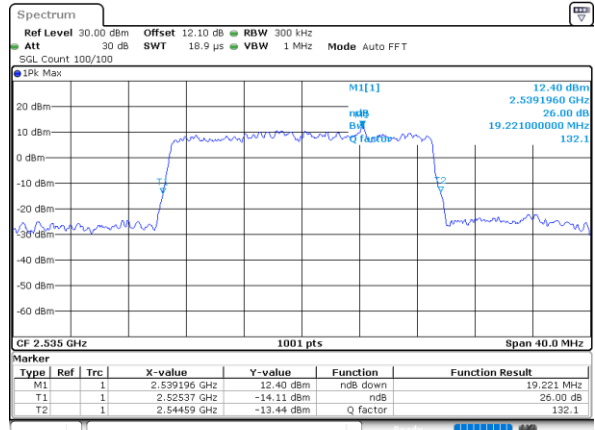
Date: 3,SEP,2020 19:05:12

Middle Channel / 15MHz / 64QAM



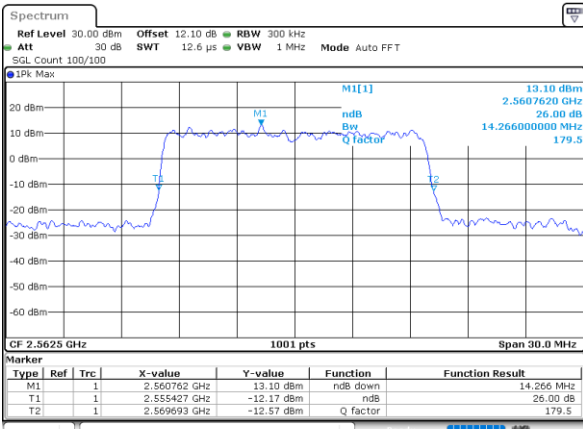
Date: 3,SEP,2020 19:01:16

Middle Channel / 20MHz / 64QAM



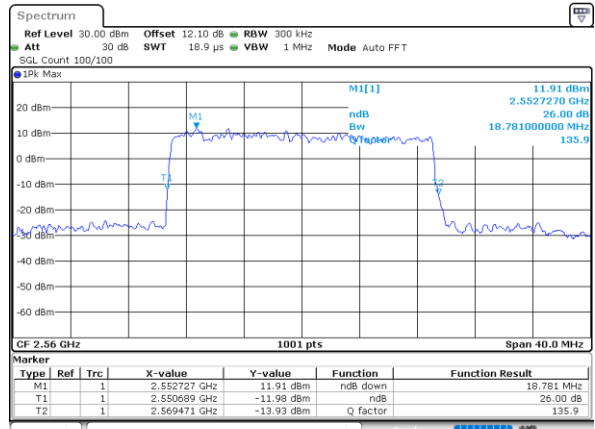
Date: 3,SEP,2020 19:07:55

Highest Channel / 15MHz / 64QAM



Date: 3,SEP,2020 19:02:28

Highest Channel / 20MHz / 64QAM



Date: 3,SEP,2020 19:09:07



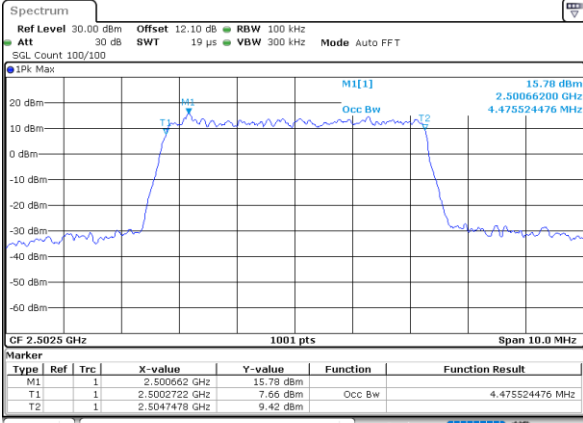
**Occupied Bandwidth**

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.48	9.03	8.99	13.37	13.43	17.82	17.78
Middle CH	-	-	-	-	4.51	4.50	9.01	9.03	13.40	13.43	17.90	17.94
Highest CH	-	-	-	-	4.50	4.50	9.03	9.01	13.52	13.43	17.90	17.82
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.52	-	9.07	-	13.43	-	17.86	-
Middle CH	-	-	-	-	4.50	-	9.07	-	13.34	-	17.90	-
Highest CH	-	-	-	-	4.49	-	8.99	-	13.52	-	18.02	-



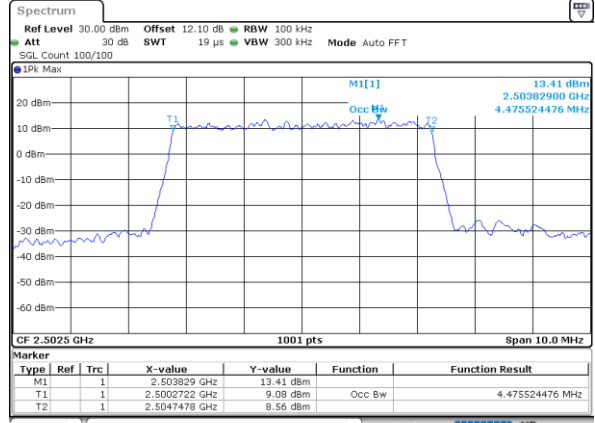
LTE Band 7

Lowest Channel / 5MHz / QPSK



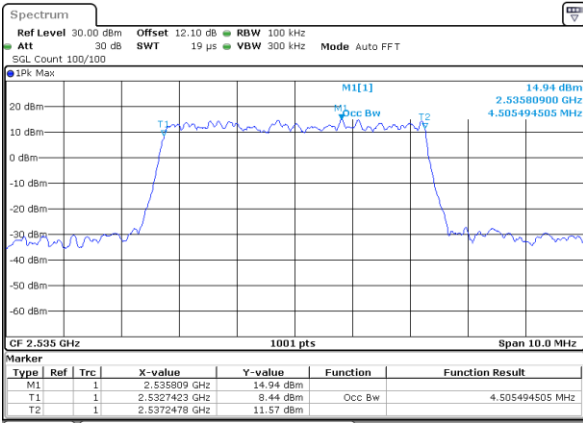
Date: 6.AUG.2020 06:10:05

Lowest Channel / 5MHz / 16QAM



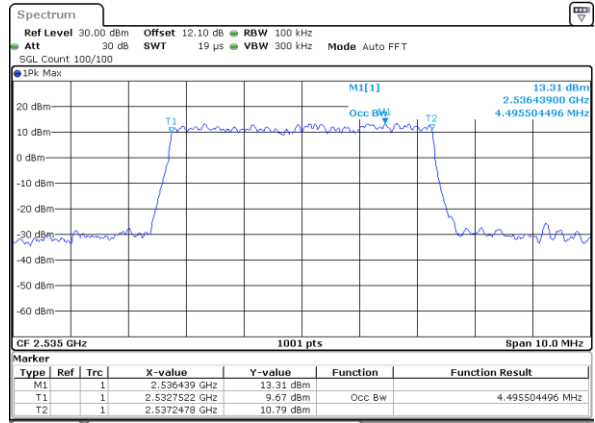
Date: 6.AUG.2020 06:10:17

Middle Channel / 5MHz / QPSK



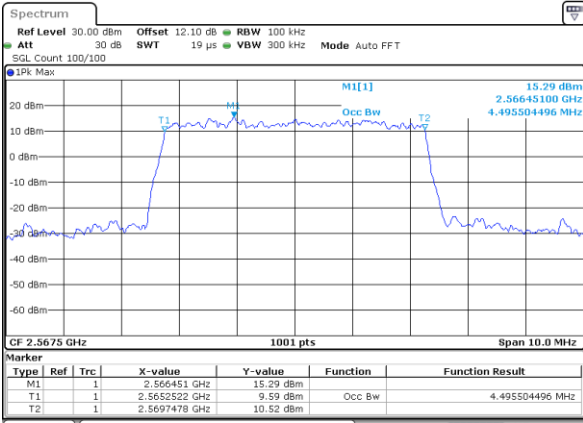
Date: 6.AUG.2020 06:16:33

Middle Channel / 5MHz / 16QAM



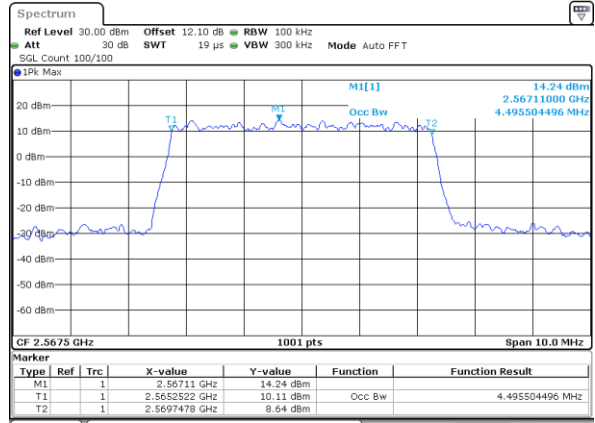
Date: 6.AUG.2020 06:16:45

Highest Channel / 5MHz / QPSK



Date: 6.AUG.2020 06:18:57

Highest Channel / 5MHz / 16QAM

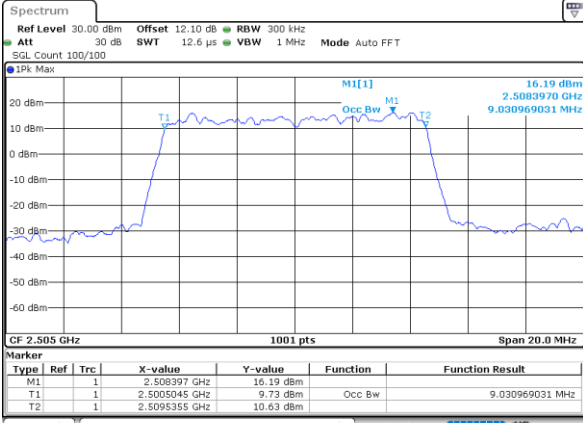


Date: 6.AUG.2020 06:19:09



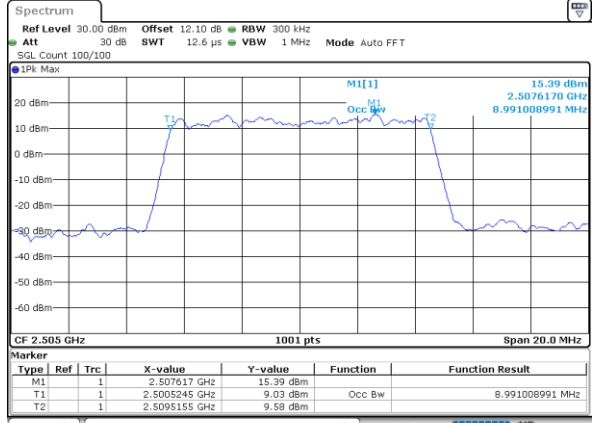
LTE Band 7

Lowest Channel / 10MHz / QPSK



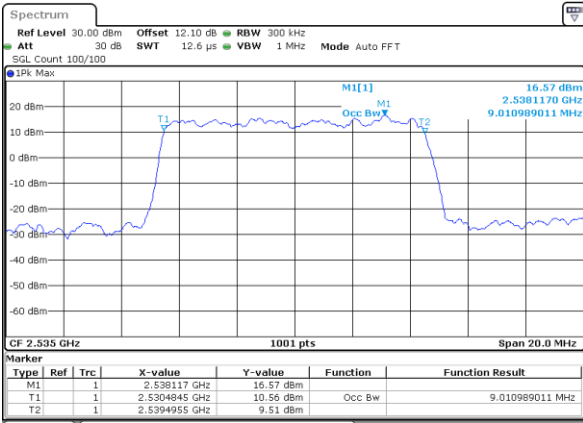
Date: 6.AUG.2020 06:25:25

Lowest Channel / 10MHz / 16QAM



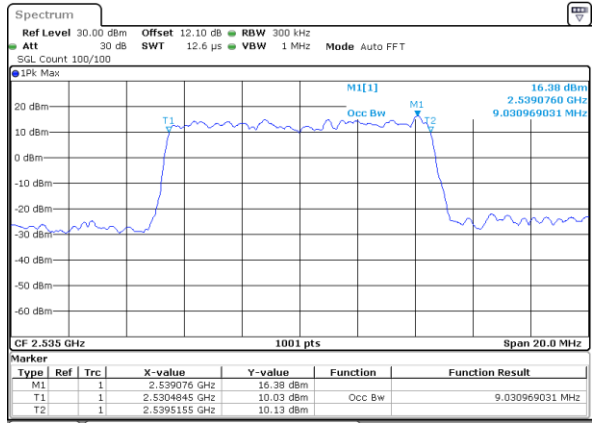
Date: 6.AUG.2020 06:25:37

Middle Channel / 10MHz / QPSK



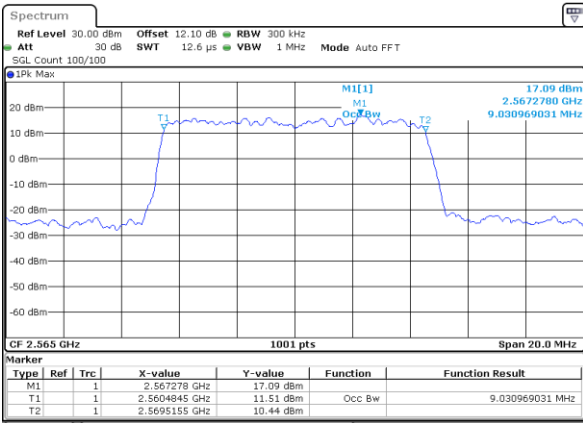
Date: 6.AUG.2020 06:31:52

Middle Channel / 10MHz / 16QAM



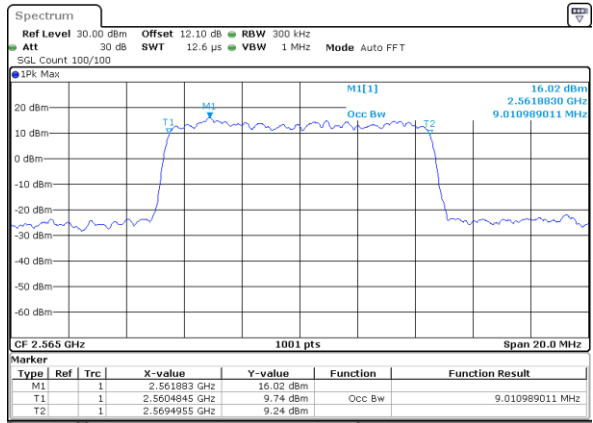
Date: 6.AUG.2020 06:32:04

Highest Channel / 10MHz / QPSK



Date: 6.AUG.2020 06:34:16

Highest Channel / 10MHz / 16QAM

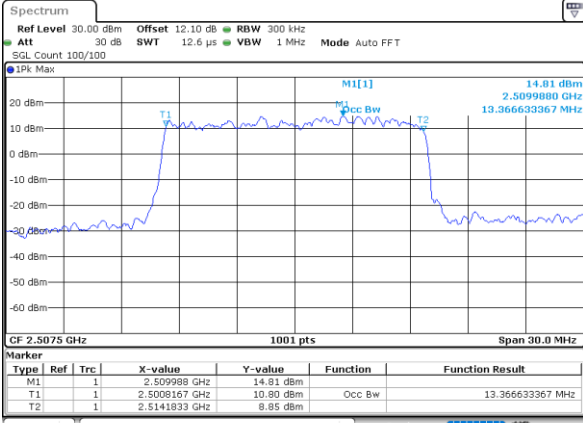


Date: 6.AUG.2020 06:34:28



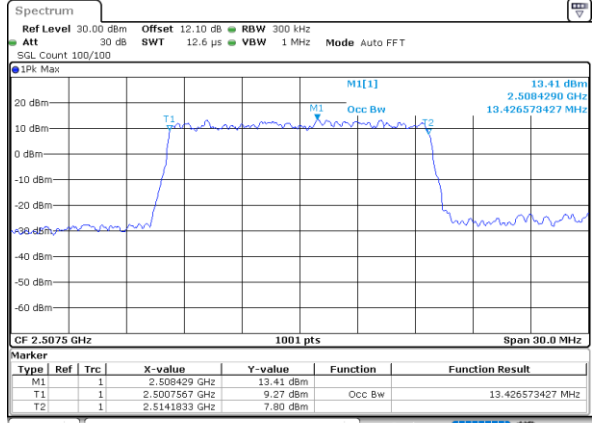
LTE Band 7

Lowest Channel / 15MHz / QPSK



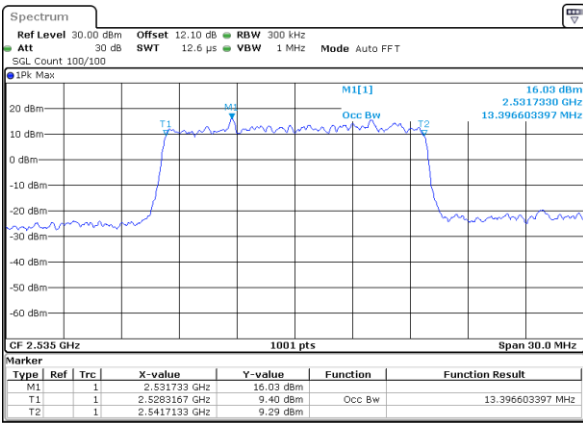
Date: 6.AUG.2020 06:14:44

Lowest Channel / 15MHz / 16QAM



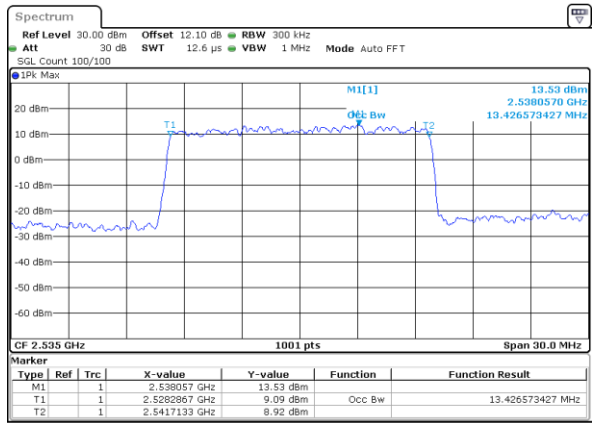
Date: 6.AUG.2020 06:14:56

Middle Channel / 15MHz / QPSK



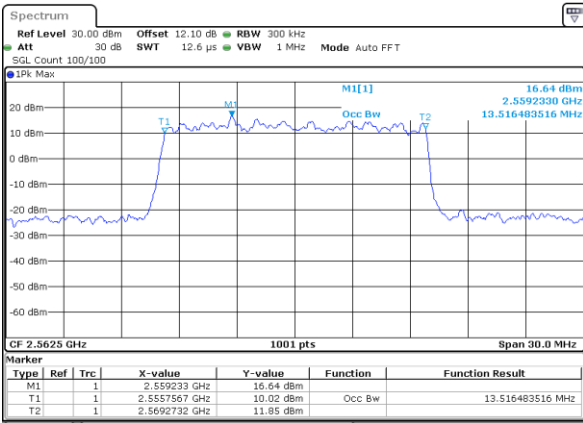
Date: 6.AUG.2020 06:14:13

Middle Channel / 15MHz / 16QAM



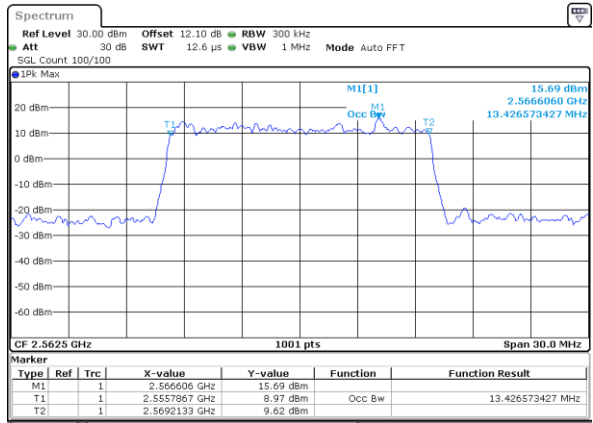
Date: 6.AUG.2020 06:14:24

Highest Channel / 15MHz / QPSK



Date: 6.AUG.2020 06:14:37

Highest Channel / 15MHz / 16QAM

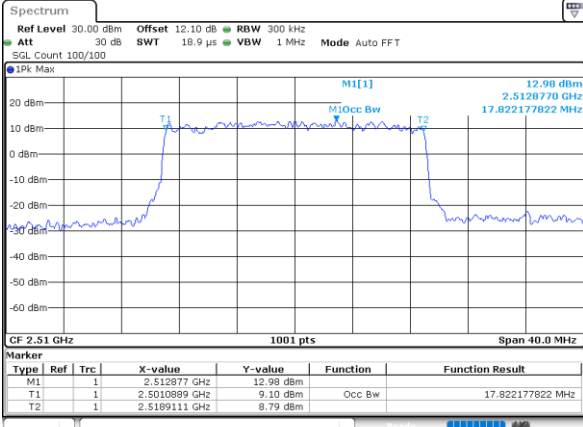


Date: 6.AUG.2020 06:14:49



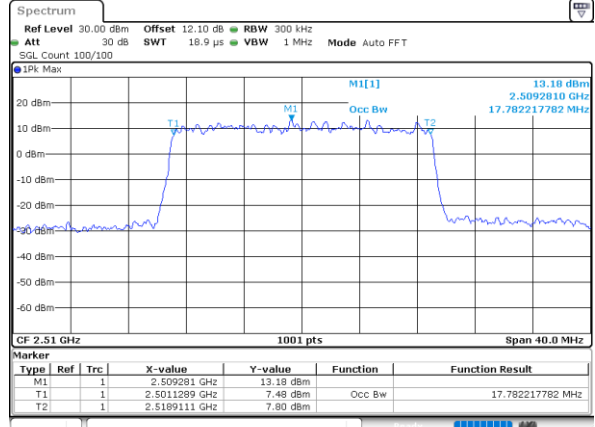
LTE Band 7

Lowest Channel / 20MHz / QPSK



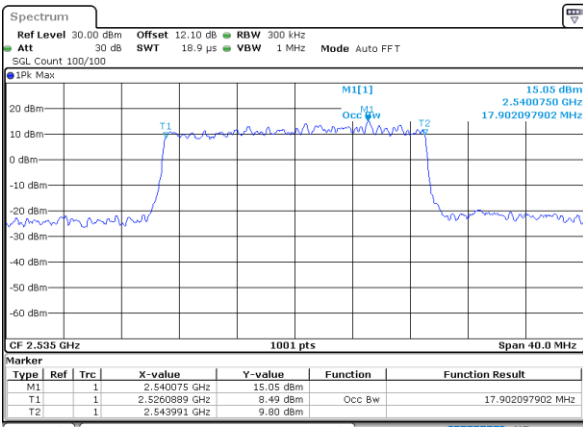
Date: 6.AUG.2020 06:56:05

Lowest Channel / 20MHz / 16QAM



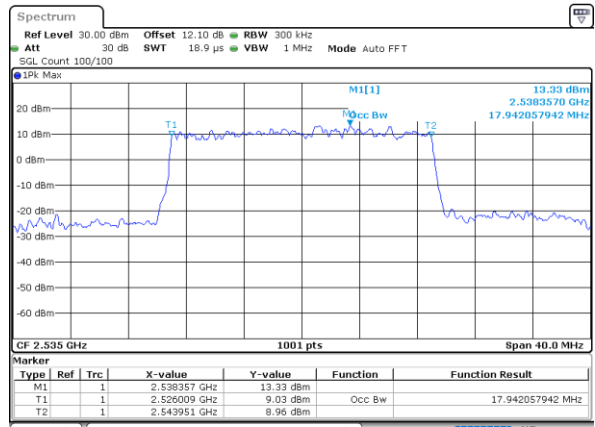
Date: 6.AUG.2020 06:56:17

Middle Channel / 20MHz / QPSK



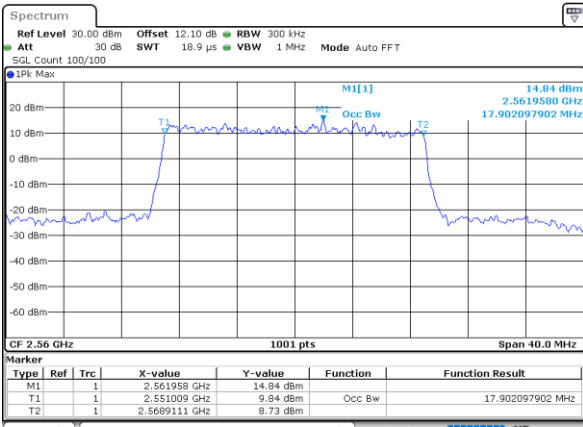
Date: 6.AUG.2020 07:02:34

Middle Channel / 20MHz / 16QAM



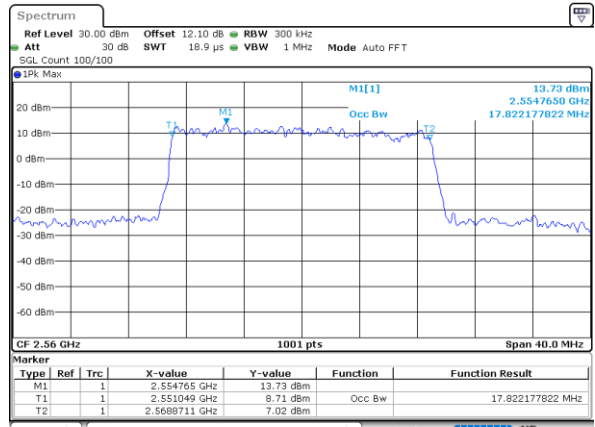
Date: 6.AUG.2020 07:02:46

Highest Channel / 20MHz / QPSK



Date: 6.AUG.2020 07:04:58

Highest Channel / 20MHz / 16QAM

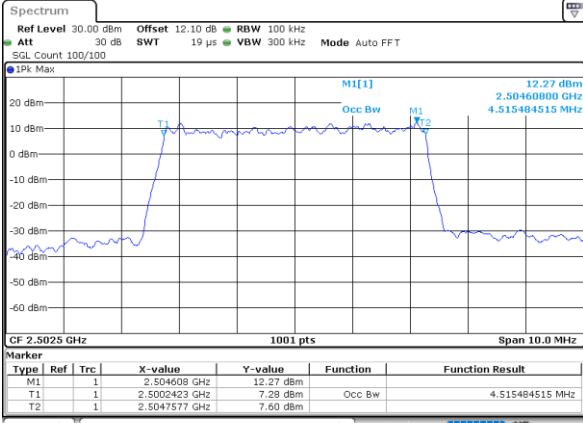


Date: 6.AUG.2020 07:05:10



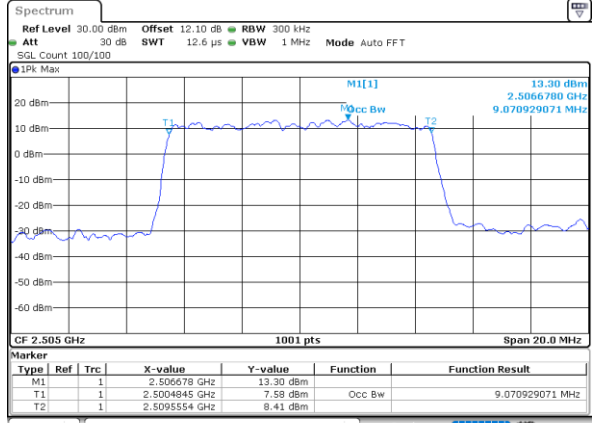
LTE Band 7

Lowest Channel / 5MHz / 64QAM



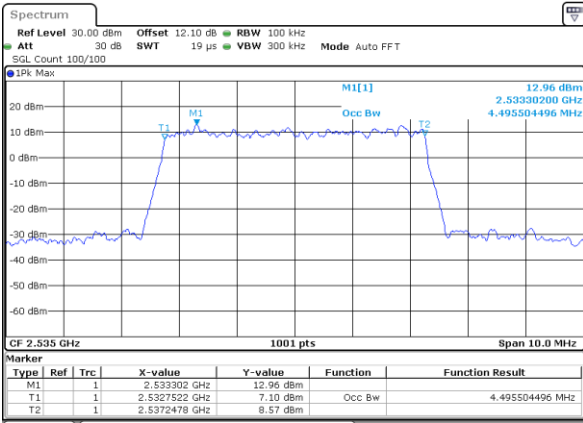
Date: 3,SEP,2020 18:45:02

Lowest Channel / 10MHz / 64QAM



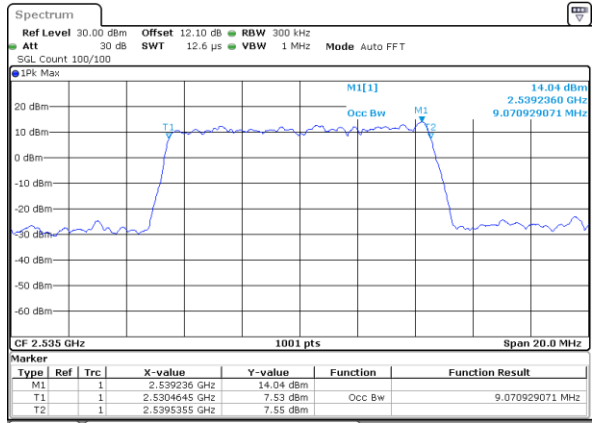
Date: 3,SEP,2020 18:51:42

Middle Channel / 5MHz / 64QAM



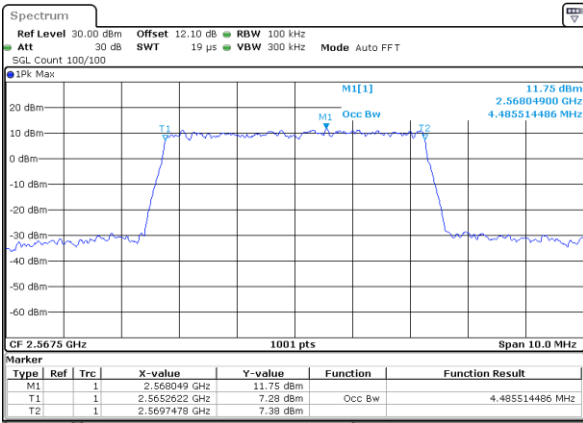
Date: 3,SEP,2020 18:47:46

Middle Channel / 10MHz / 64QAM



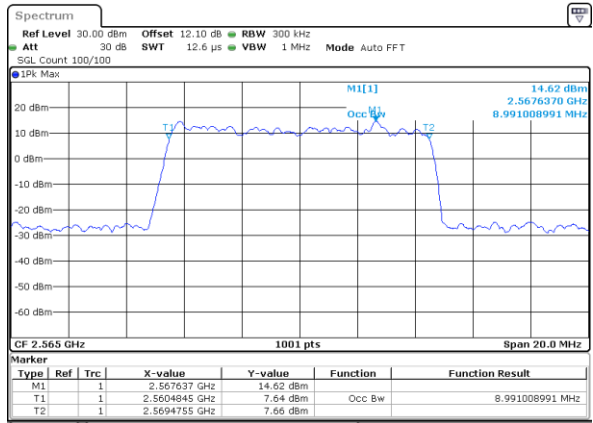
Date: 3,SEP,2020 18:54:25

Highest Channel / 5MHz / 64QAM



Date: 3,SEP,2020 18:48:58

Highest Channel / 10MHz / 64QAM



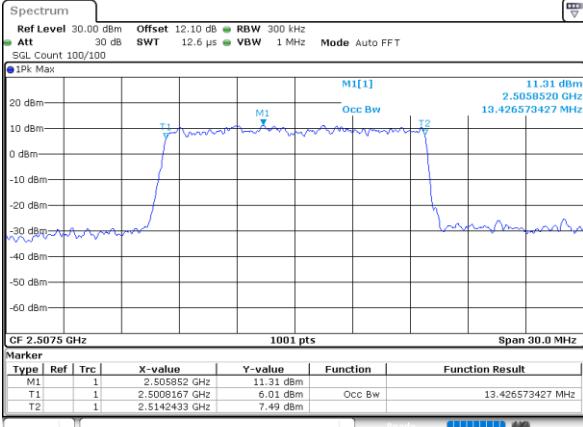
Date: 3,SEP,2020 18:55:37





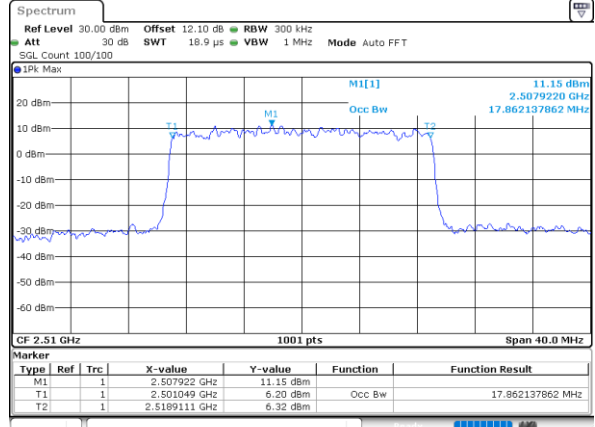
LTE Band 7

Lowest Channel / 15MHz / 64QAM



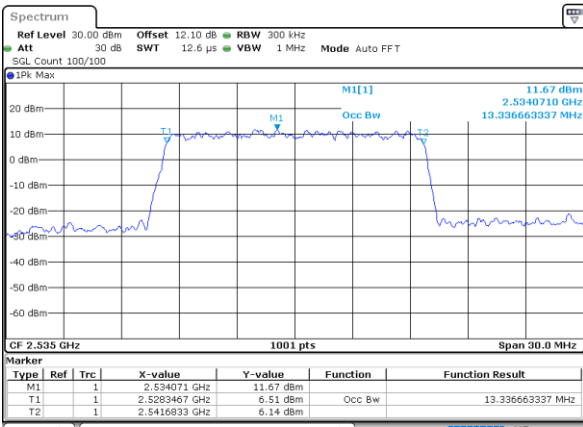
Date: 3,SEP,2020 18:58:21

Lowest Channel / 20MHz / 64QAM



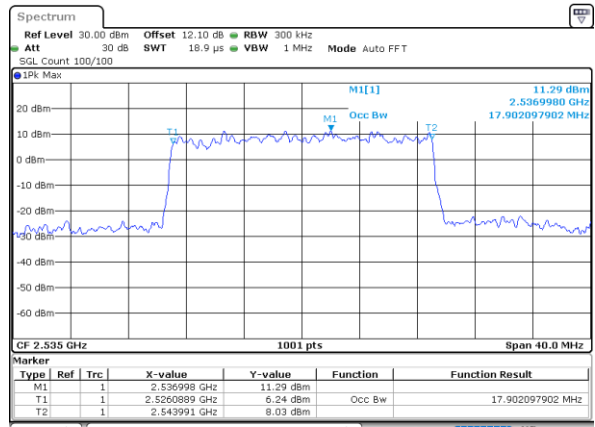
Date: 3,SEP,2020 19:05:00

Middle Channel / 15MHz / 64QAM



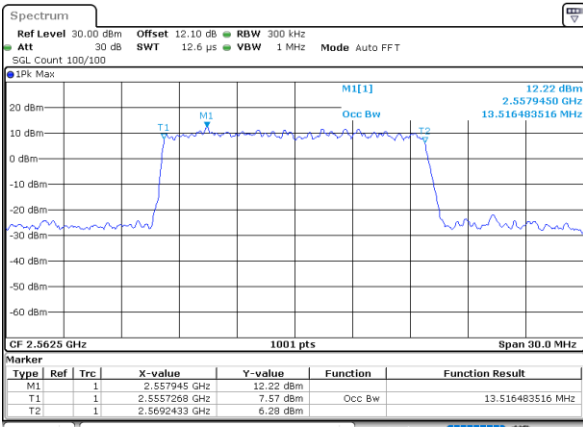
Date: 3,SEP,2020 19:01:05

Middle Channel / 20MHz / 64QAM



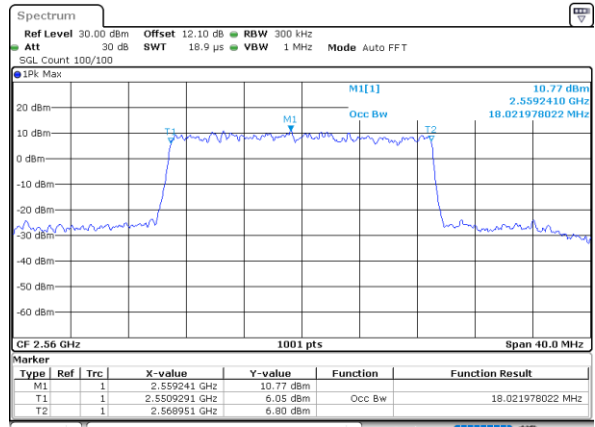
Date: 3,SEP,2020 19:07:44

Highest Channel / 15MHz / 64QAM



Date: 3,SEP,2020 19:02:16

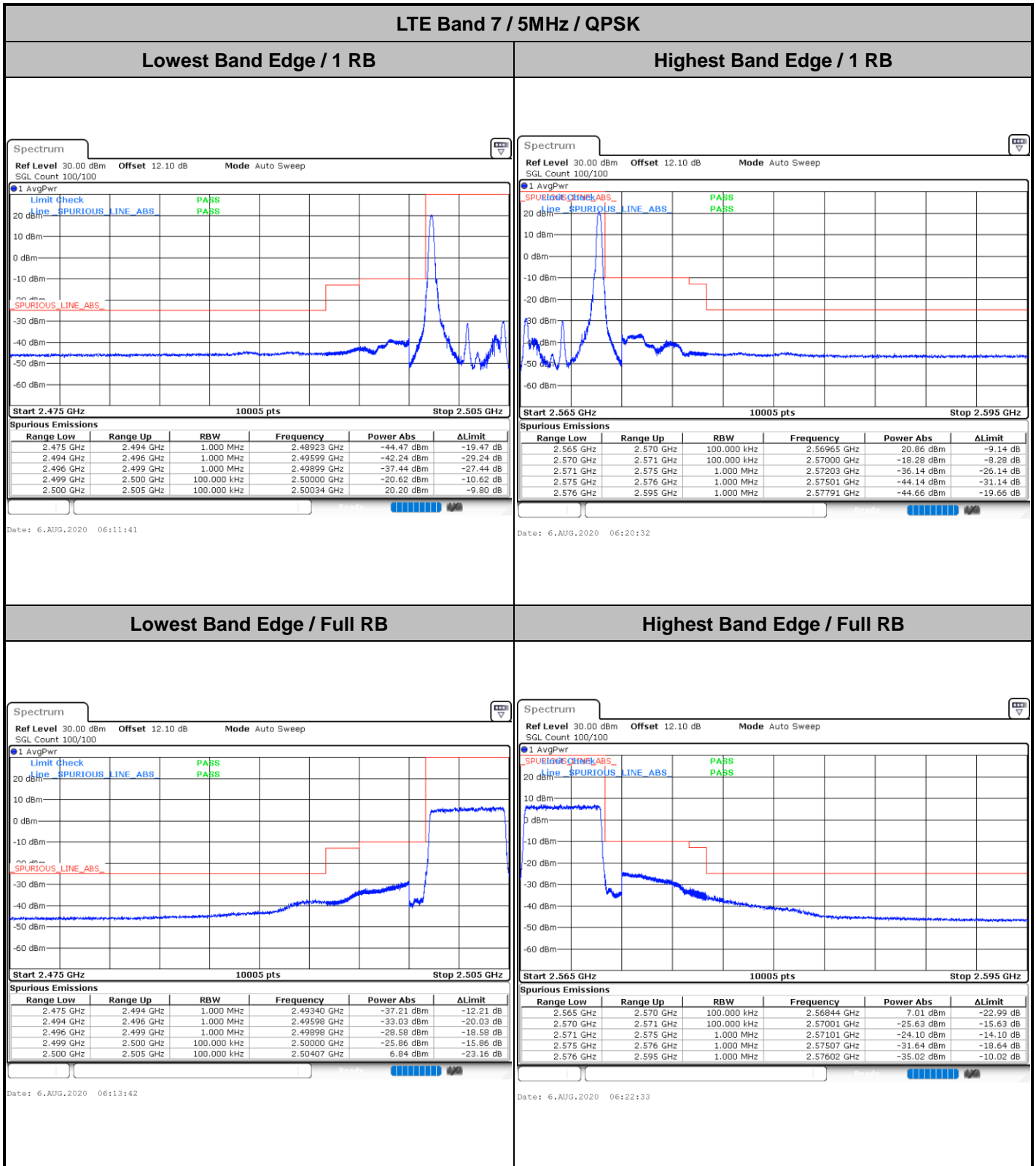
Highest Channel / 20MHz / 64QAM



Date: 3,SEP,2020 19:08:56



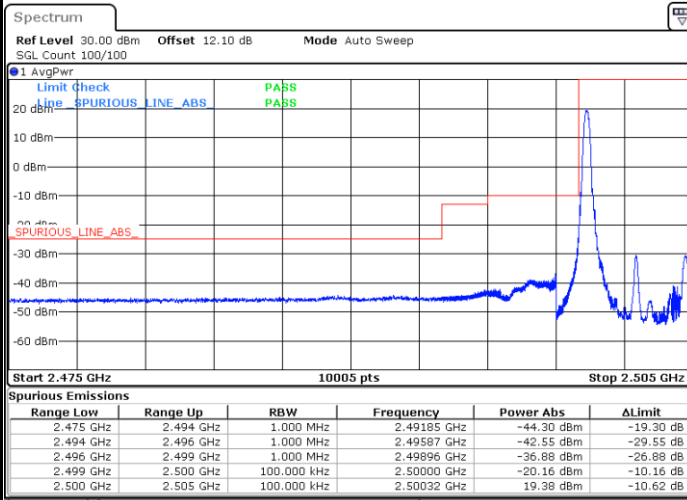
# Conducted Band Edge





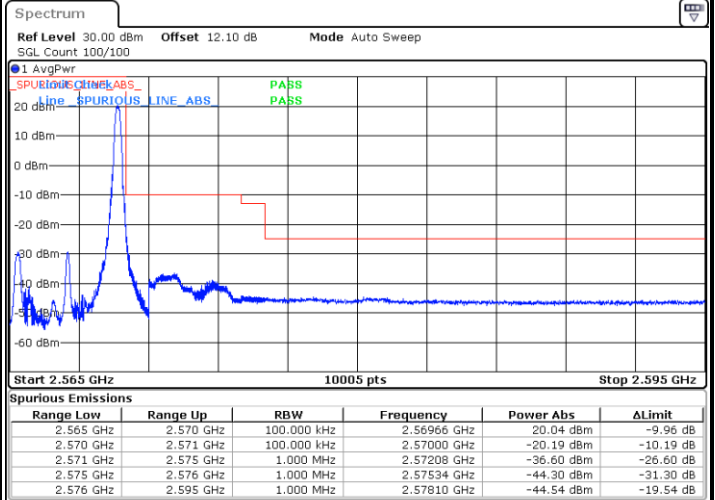
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



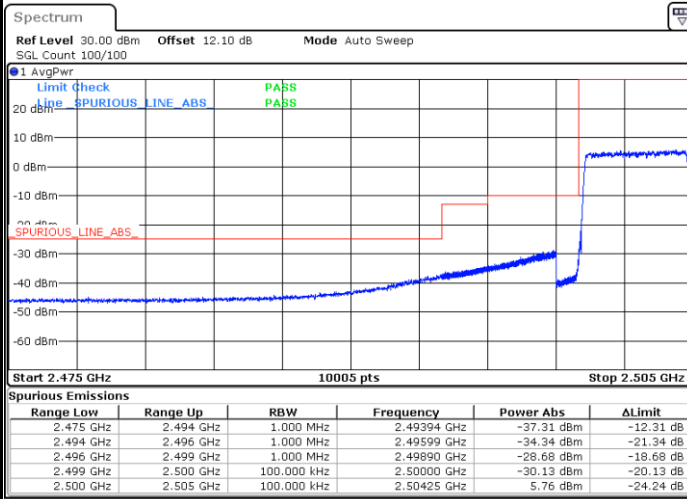
Date: 6.AUG.2020 06:12:42

Highest Band Edge / 1 RB



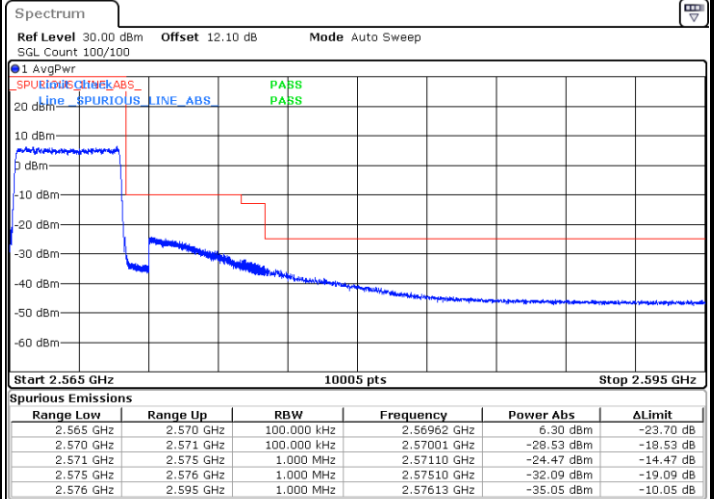
Date: 6.AUG.2020 06:21:33

Lowest Band Edge / Full RB



Date: 6.AUG.2020 06:14:43

Highest Band Edge / Full RB



Date: 6.AUG.2020 06:23:34