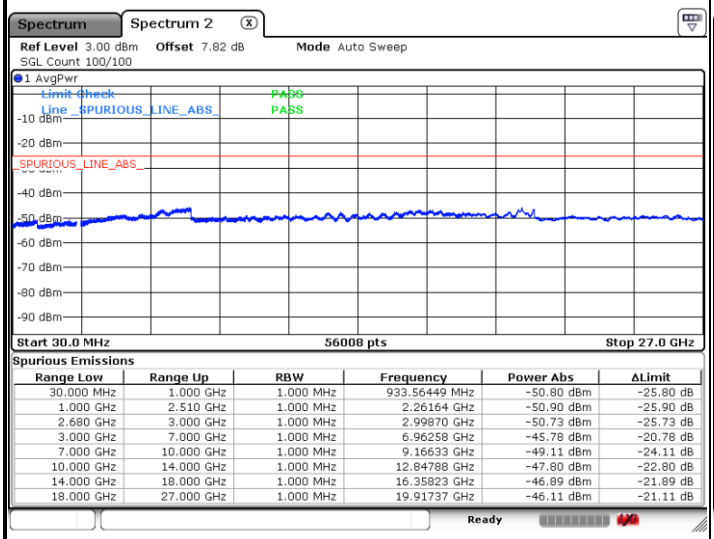
LTE Band 41 / 20MHz

Lowest Channel / 64QAM

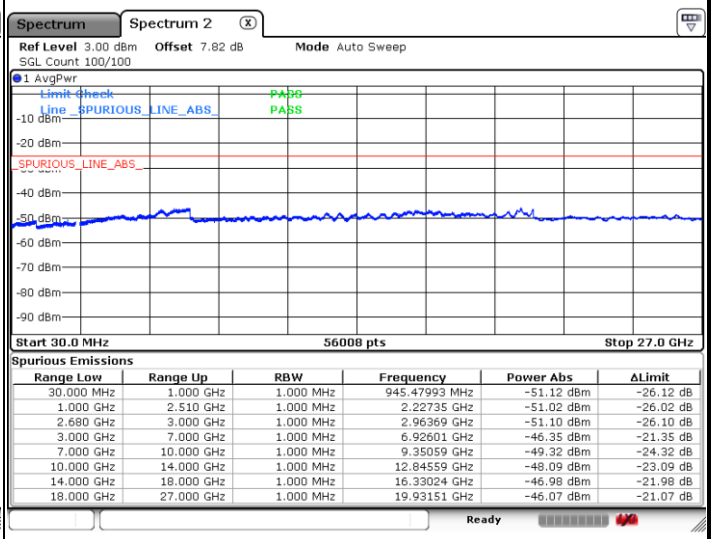


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	933.56449 MHz	-50.80 dBm	-25.80 dB
1.000 GHz	2.510 GHz	1.000 MHz	2.26164 GHz	-50.90 dBm	-25.90 dB
2.680 GHz	3.000 GHz	1.000 MHz	2.99870 GHz	-50.73 dBm	-25.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96258 GHz	-45.78 dBm	-20.78 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.16633 GHz	-49.11 dBm	-24.11 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84788 GHz	-47.80 dBm	-22.80 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.35823 GHz	-46.89 dBm	-21.89 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.91737 GHz	-46.11 dBm	-21.11 dB

Date: 17.APR.2020 18:56:50

Middle Channel / 64QAM

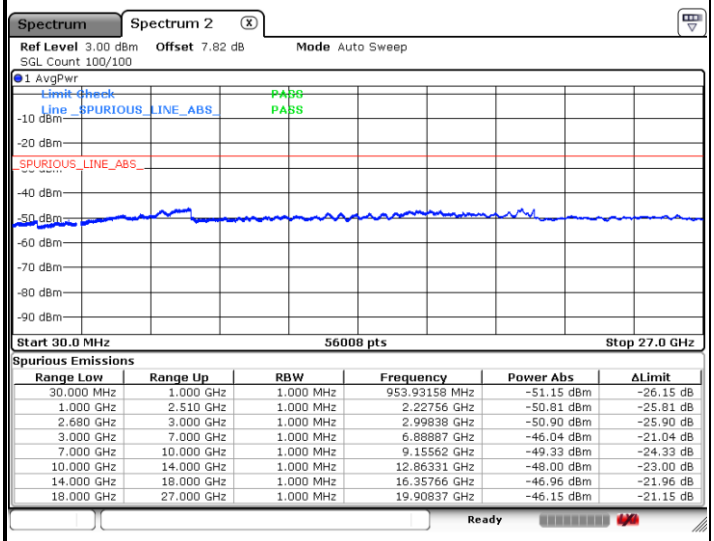


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	945.47993 MHz	-51.12 dBm	-26.12 dB
1.000 GHz	2.510 GHz	1.000 MHz	2.22735 GHz	-51.02 dBm	-26.02 dB
2.680 GHz	3.000 GHz	1.000 MHz	2.96369 GHz	-51.10 dBm	-26.10 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92601 GHz	-46.35 dBm	-21.35 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.35059 GHz	-49.32 dBm	-24.32 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84559 GHz	-48.09 dBm	-23.09 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.33024 GHz	-46.98 dBm	-21.98 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.93151 GHz	-46.07 dBm	-21.07 dB

Date: 17.APR.2020 19:04:52

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	953.93158 MHz	-51.15 dBm	-26.15 dB
1.000 GHz	2.510 GHz	1.000 MHz	2.22756 GHz	-50.81 dBm	-25.81 dB
2.680 GHz	3.000 GHz	1.000 MHz	2.99838 GHz	-50.90 dBm	-25.90 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88887 GHz	-46.04 dBm	-21.04 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.15562 GHz	-49.33 dBm	-24.33 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.86331 GHz	-48.00 dBm	-23.00 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.35766 GHz	-46.96 dBm	-21.96 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.90837 GHz	-46.15 dBm	-21.15 dB

Date: 17.APR.2020 19:06:31

Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

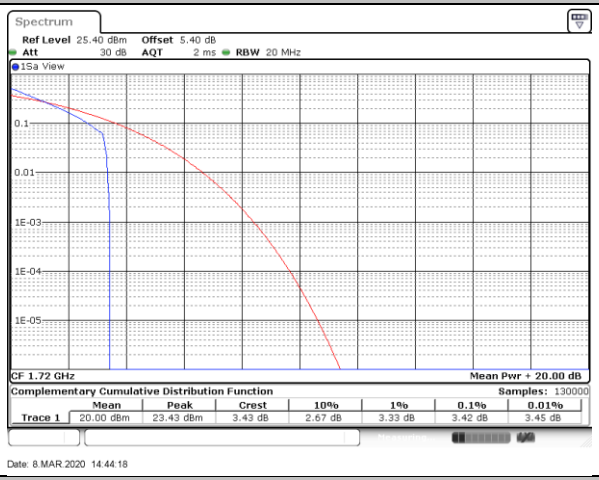
LTE Band 66

Peak-to-Average Ratio

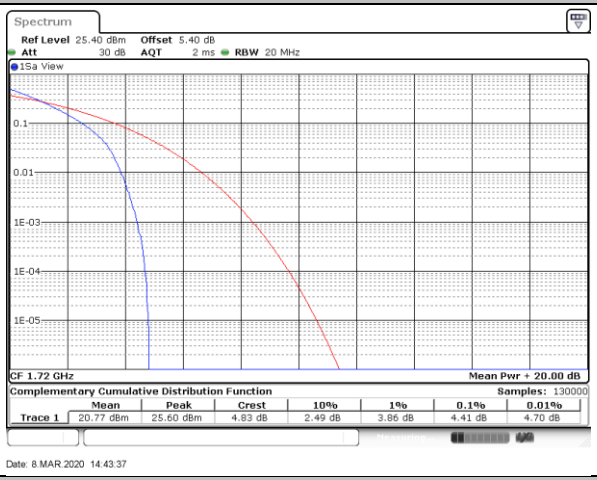
Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.42	4.41	5.01	5.71	PASS
Middle CH	3.28	3.91	4.61	5.22	
Highest CH	3.28	4.46	4.41	5.74	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.10	5.74	-	-	PASS
Middle CH	4.81	5.19	-	-	
Highest CH	4.87	5.74	-	-	

LTE Band 66 / 20MHz / QPSK

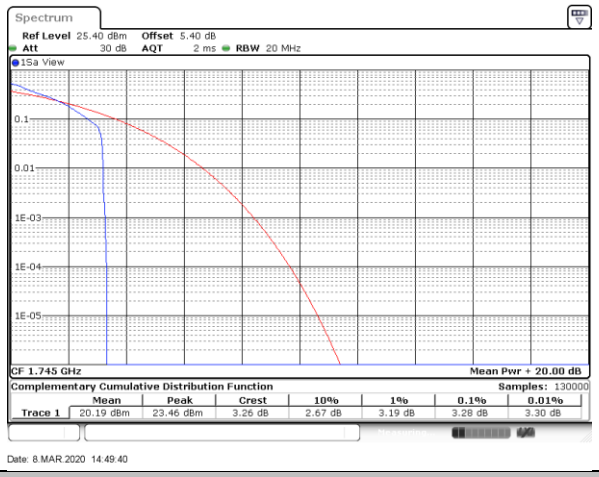
Lowest Channel / 1RB



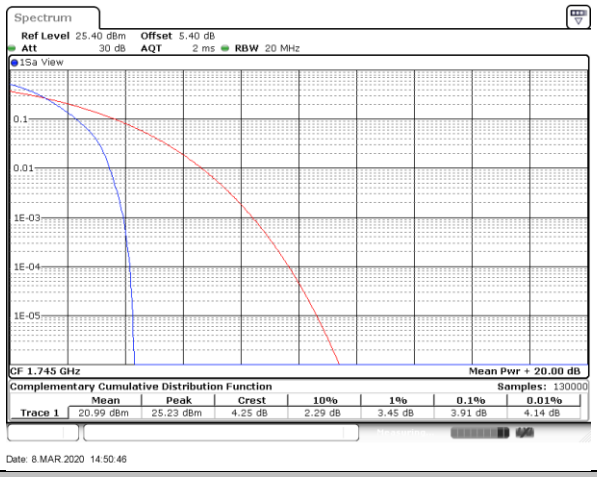
Lowest Channel / Full RB



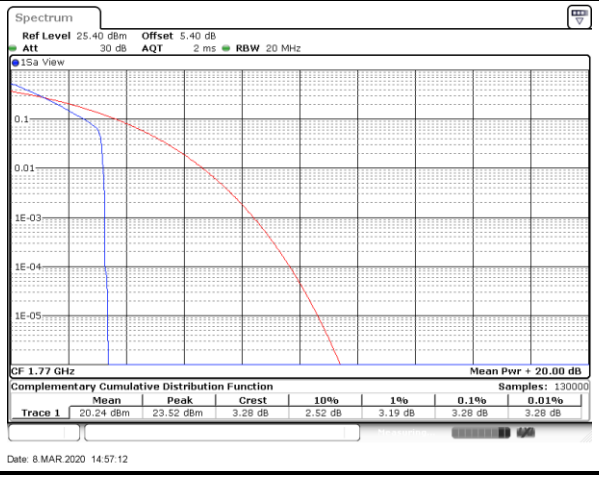
Middle Channel / 1RB



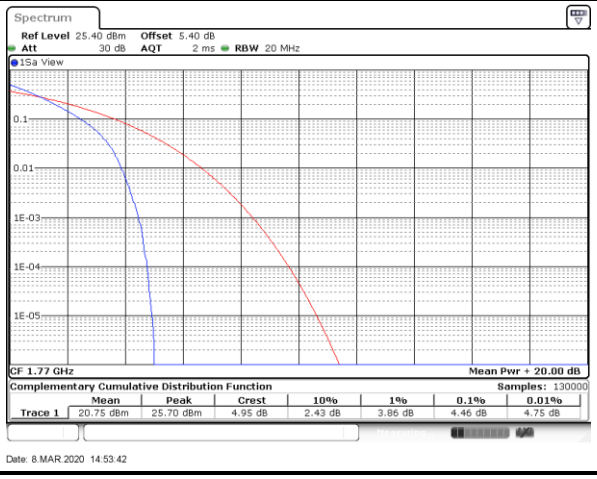
Middle Channel / Full RB



Highest Channel / 1RB

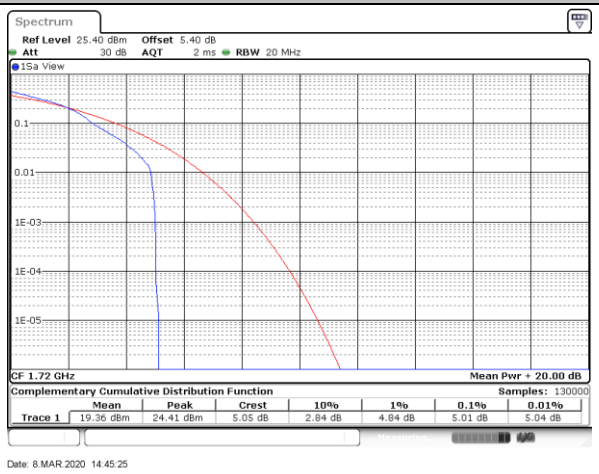


Highest Channel / Full RB

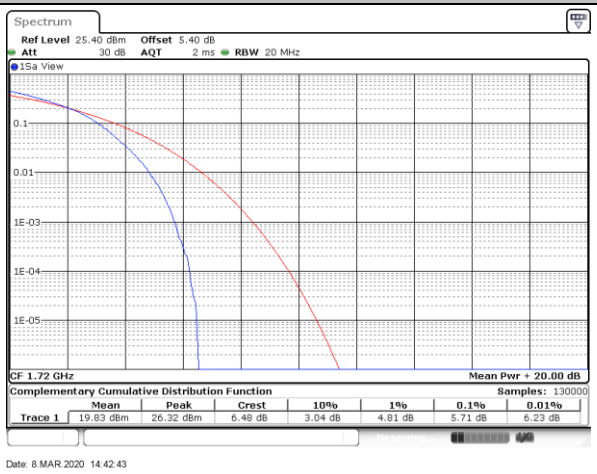


LTE Band 66 / 20MHz / 16QAM

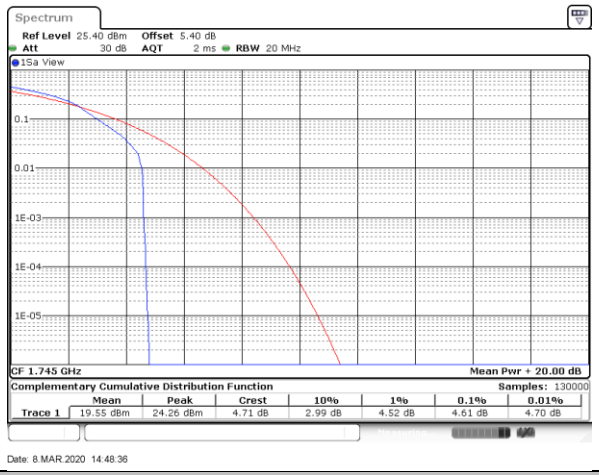
Lowest Channel / 1RB



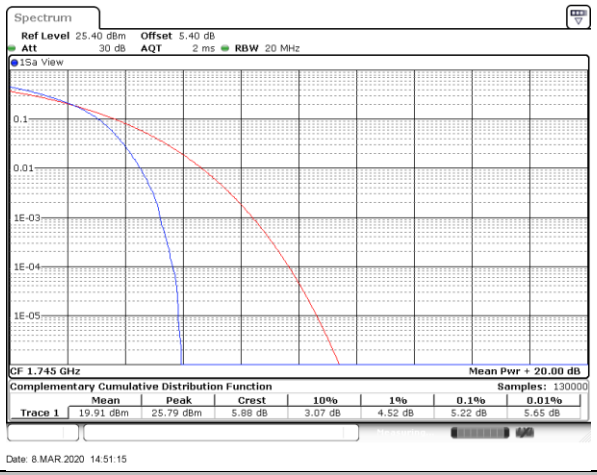
Lowest Channel / Full RB



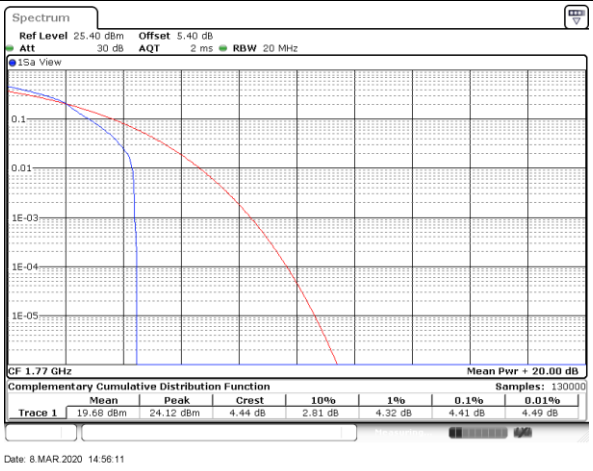
Middle Channel / 1RB



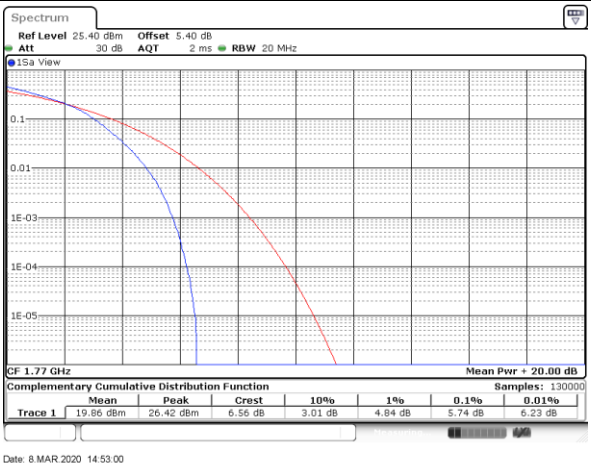
Middle Channel / Full RB



Highest Channel / 1RB

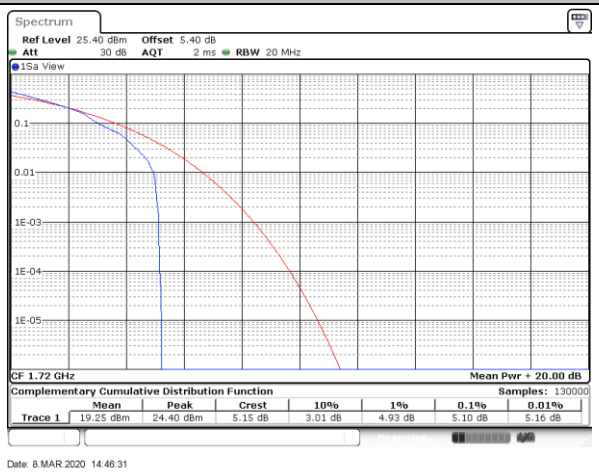


Highest Channel / Full RB

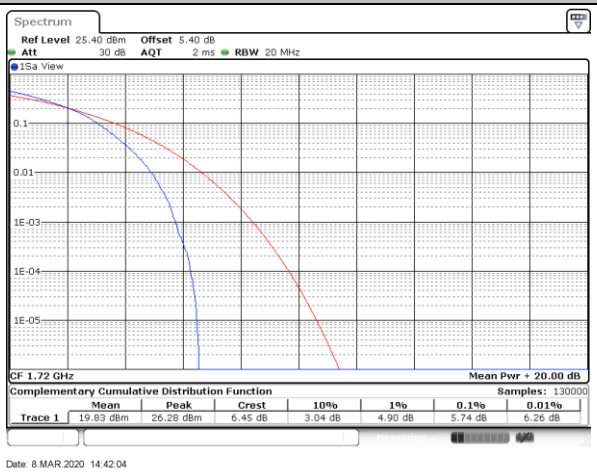


LTE Band 66 / 20MHz / 64QAM

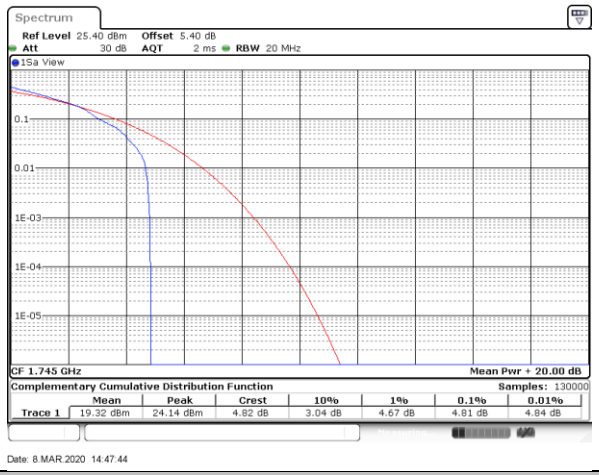
Lowest Channel / 1RB



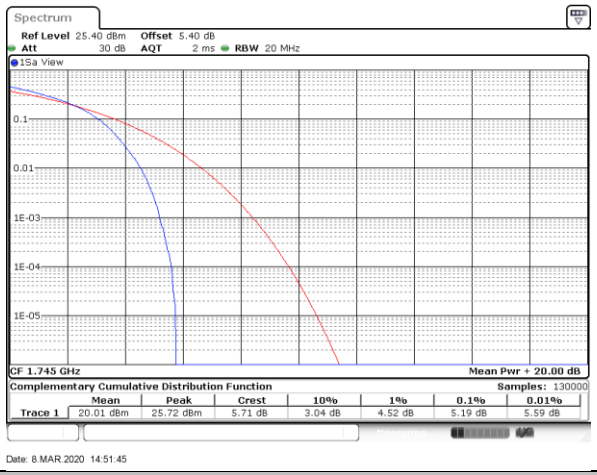
Lowest Channel / Full RB



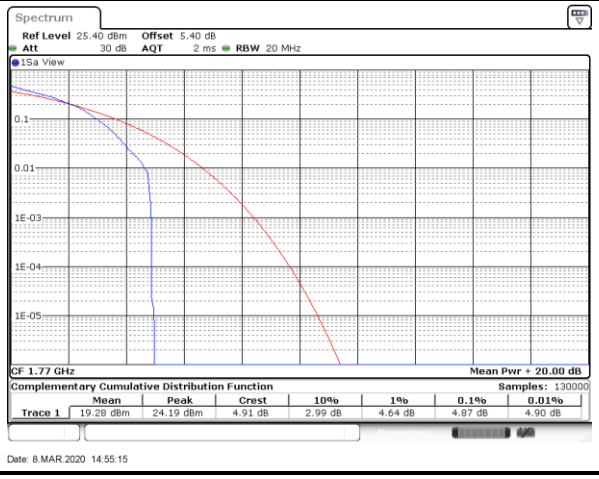
Middle Channel / 1RB



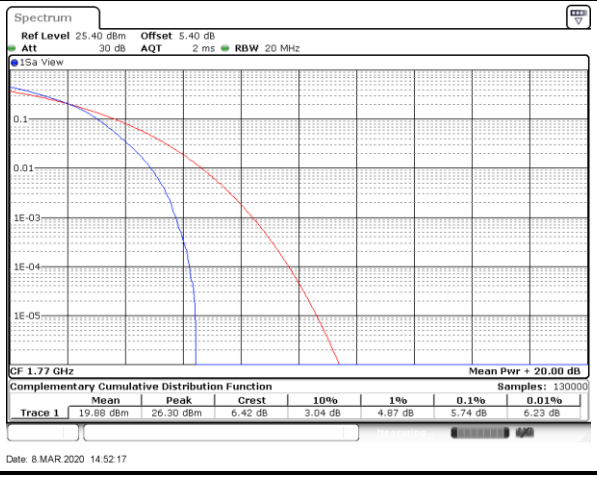
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

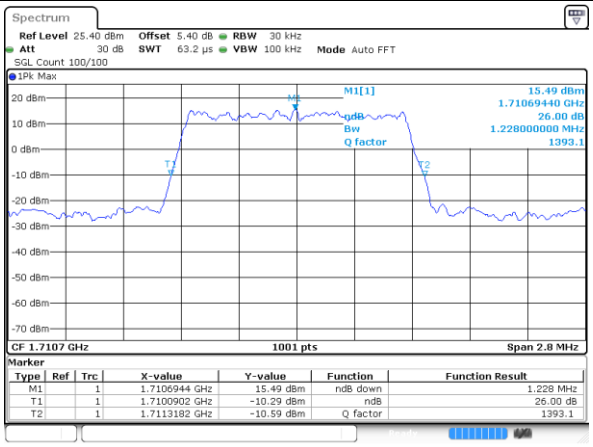


26dB Bandwidth

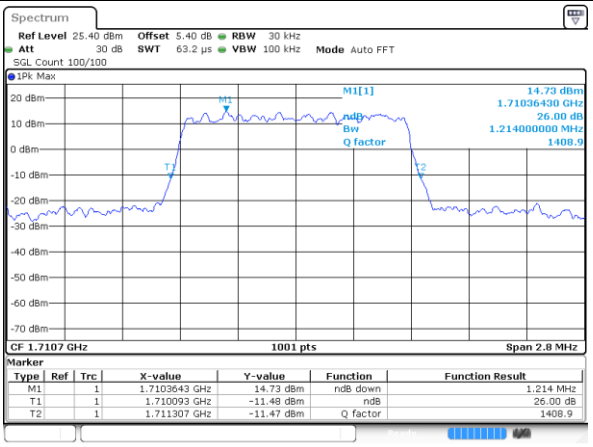
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.21	3.05	3.03	4.98	4.89	9.97	9.89	14.30	14.27	20.10	20.18
Middle CH	1.24	1.22	3.01	2.99	4.91	5.00	9.87	9.75	14.48	14.42	20.18	20.30
Highest CH	1.23	1.23	3.05	3.05	4.91	4.83	9.77	9.91	14.30	14.30	20.10	20.18
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.24	-	3.05	-	4.92	-	9.63	-	14.27	-	20.18	-
Middle CH	1.23	-	2.97	-	4.95	-	9.71	-	14.45	-	20.18	-
Highest CH	1.24	-	3.00	-	4.91	-	9.89	-	14.24	-	20.22	-

LTE Band 66

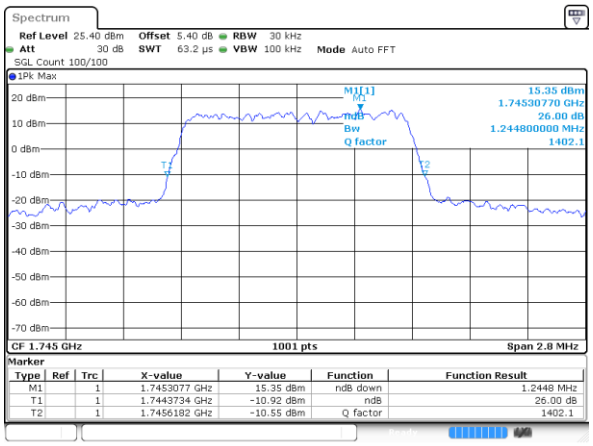
Lowest Channel / 1.4MHz / QPSK



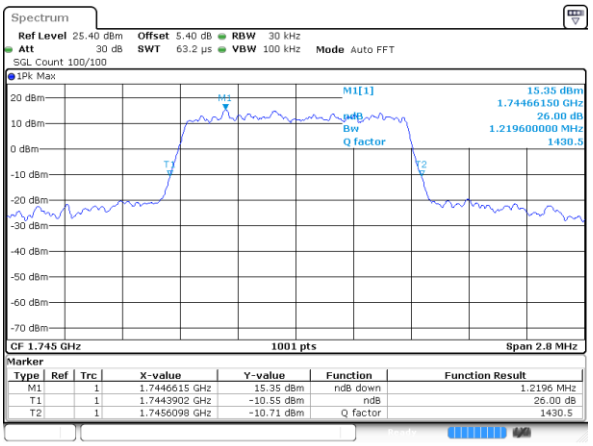
Lowest Channel / 1.4MHz / 16QAM



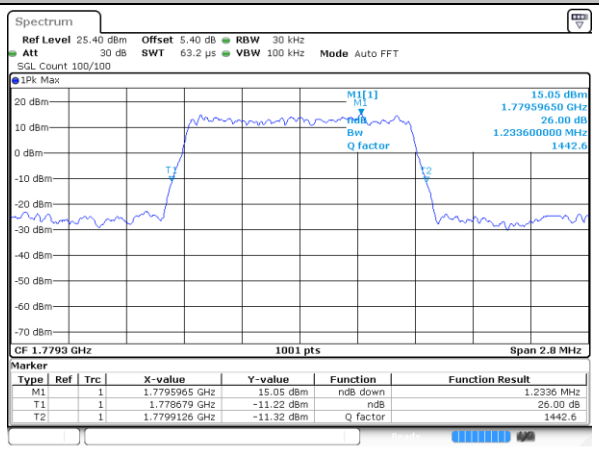
Middle Channel / 1.4MHz / QPSK



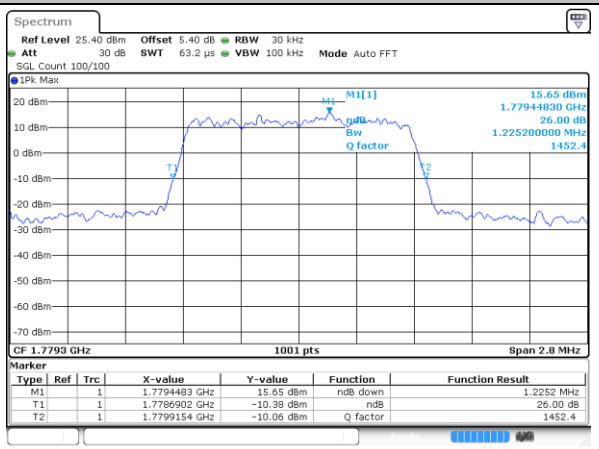
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

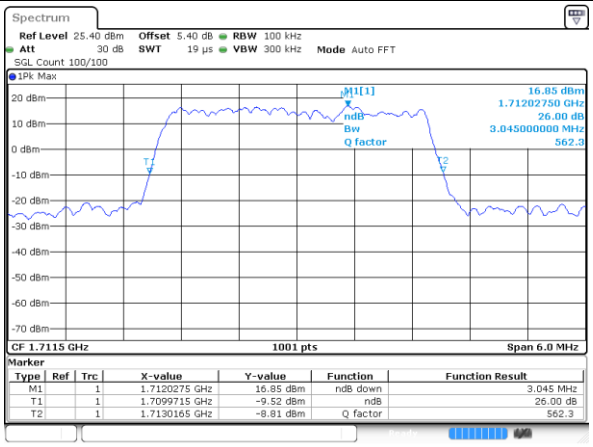


Highest Channel / 1.4MHz / 16QAM

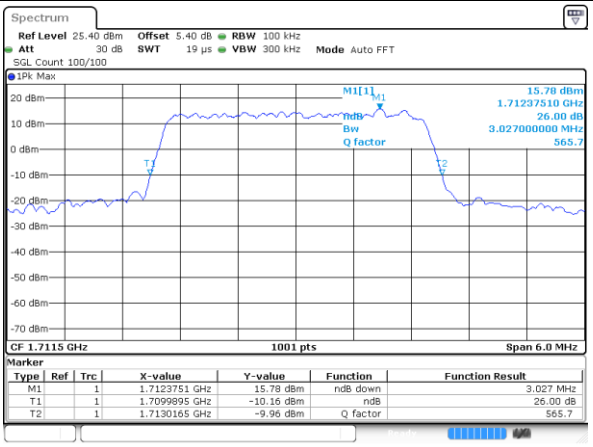


LTE Band 66

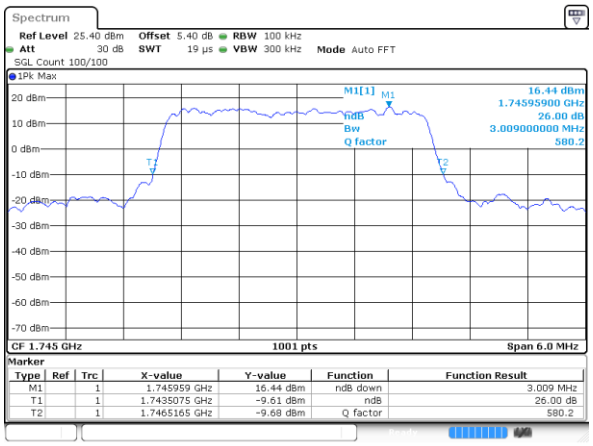
Lowest Channel / 3MHz / QPSK



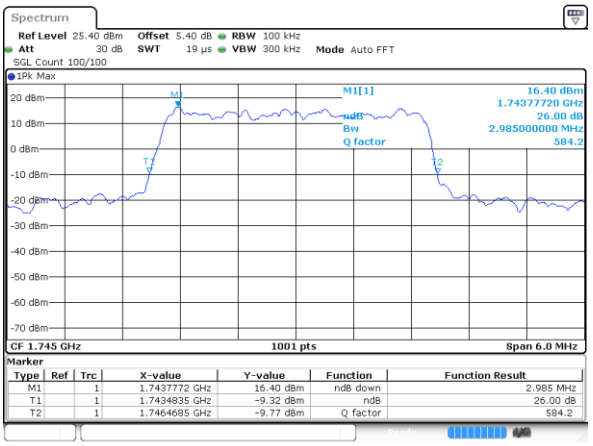
Lowest Channel / 3MHz / 16QAM



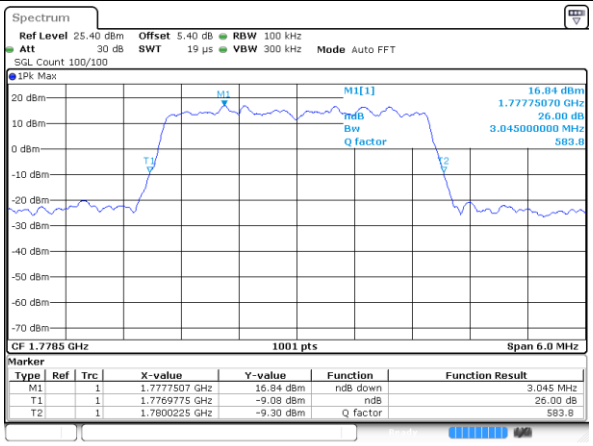
Middle Channel / 3MHz / QPSK



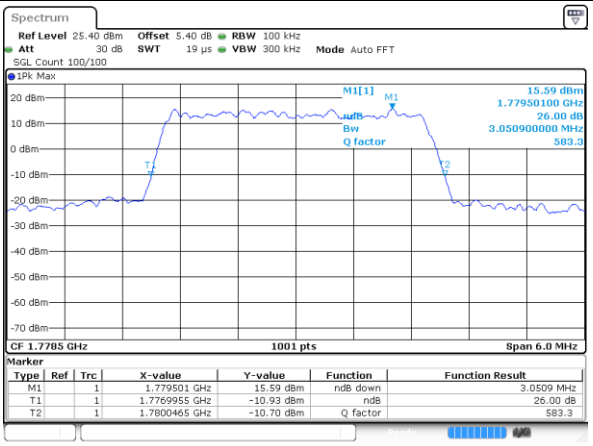
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

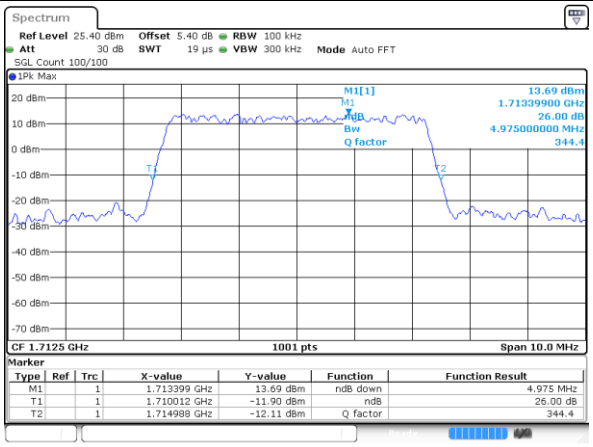


Highest Channel / 3MHz / 16QAM

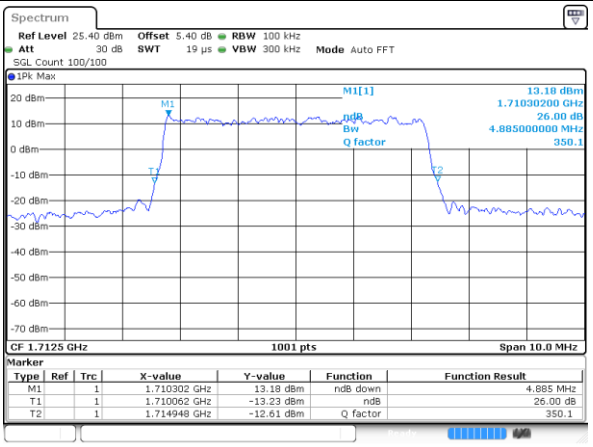


LTE Band 66

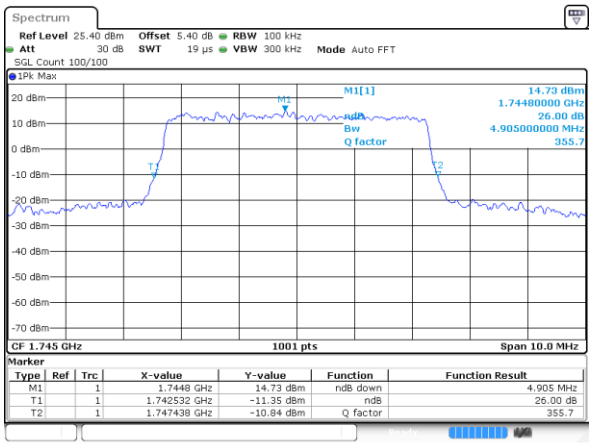
Lowest Channel / 5MHz / QPSK



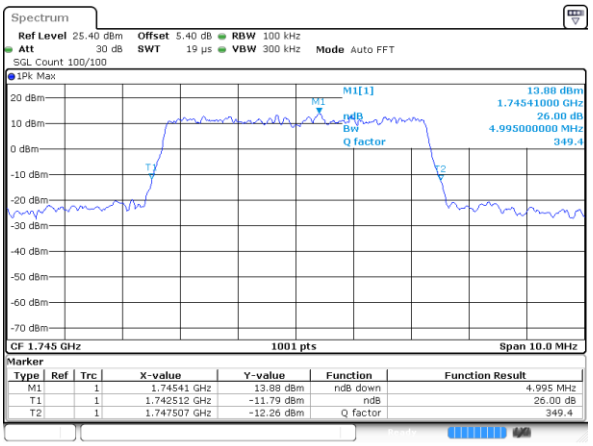
Lowest Channel / 5MHz / 16QAM



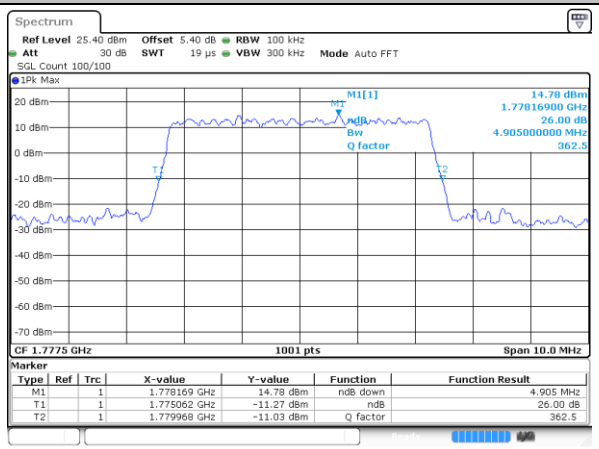
Middle Channel / 5MHz / QPSK



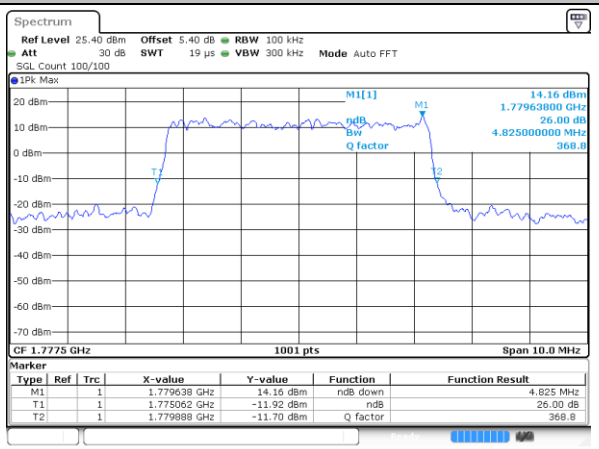
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

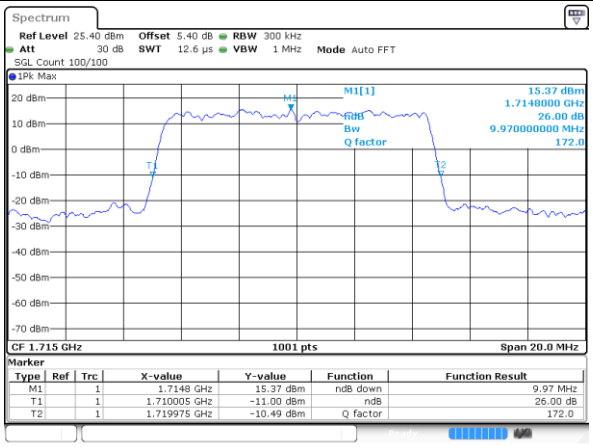


Highest Channel / 5MHz / 16QAM

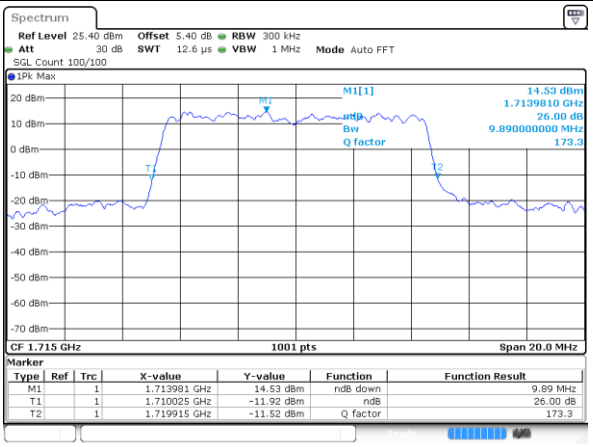


LTE Band 66

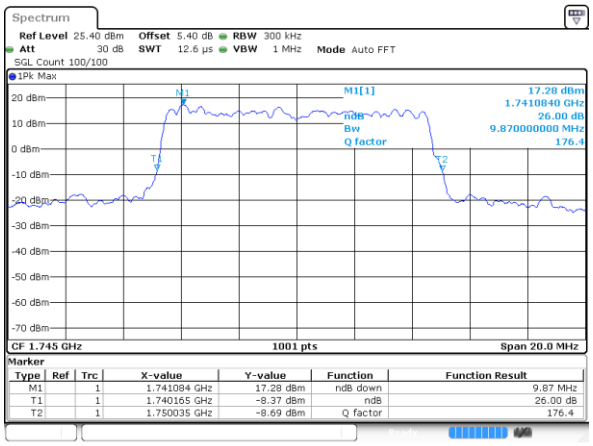
Lowest Channel / 10MHz / QPSK



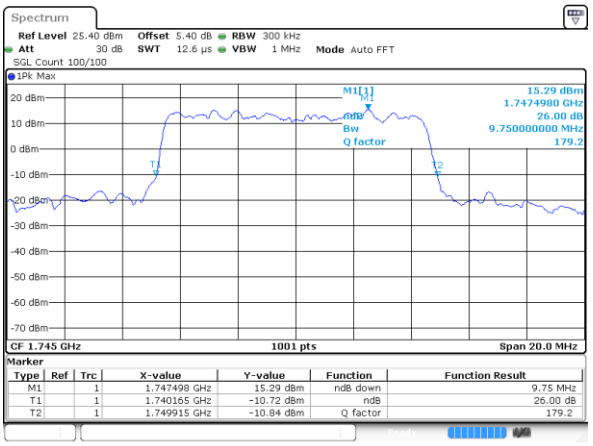
Lowest Channel / 10MHz / 16QAM



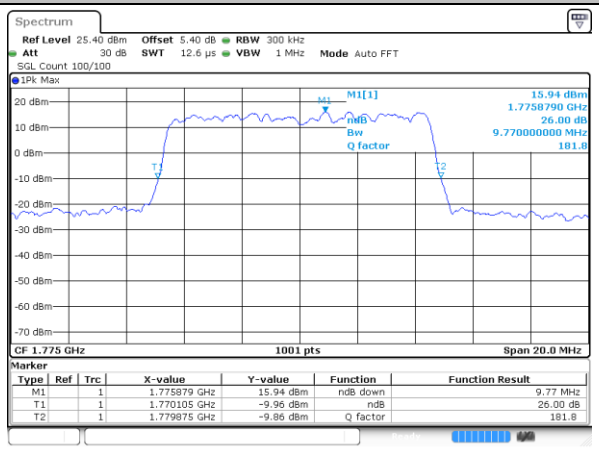
Middle Channel / 10MHz / QPSK



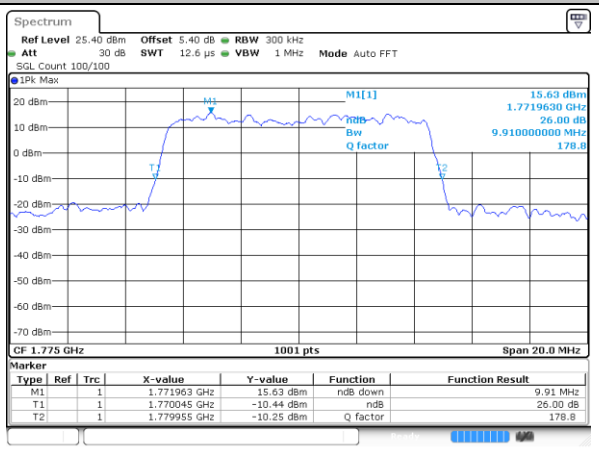
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

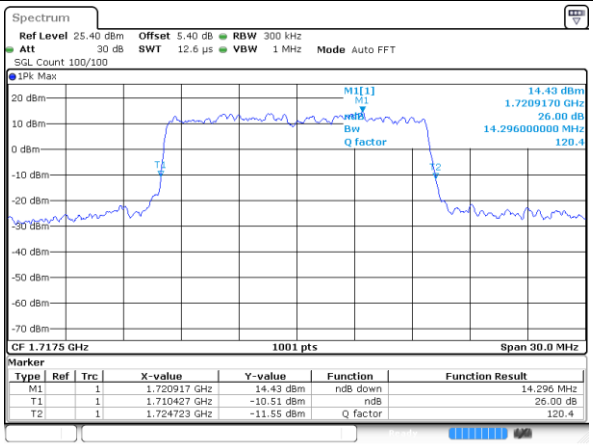


Highest Channel / 10MHz / 16QAM

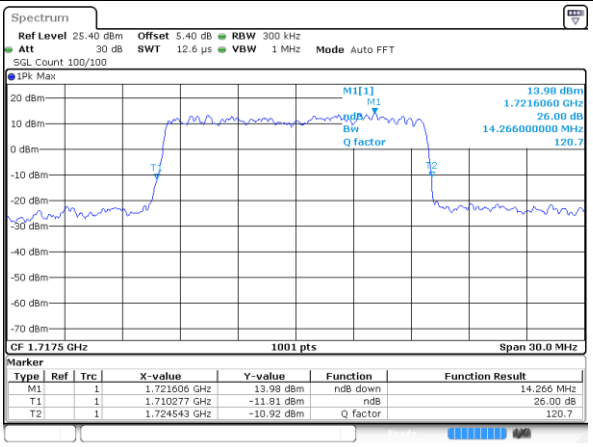


LTE Band 66

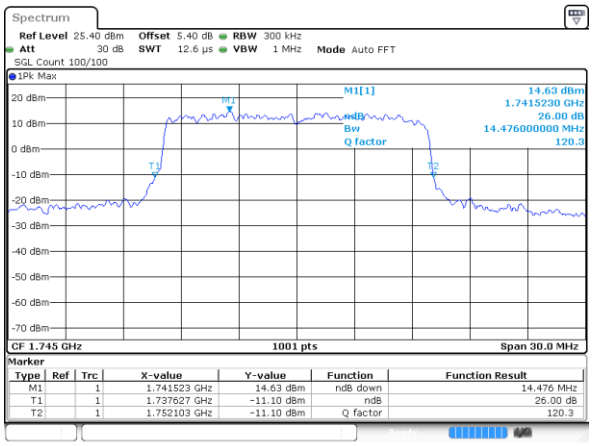
Lowest Channel / 15MHz / QPSK



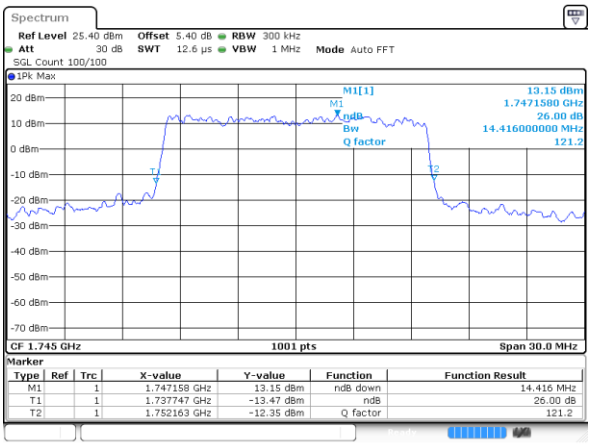
Lowest Channel / 15MHz / 16QAM



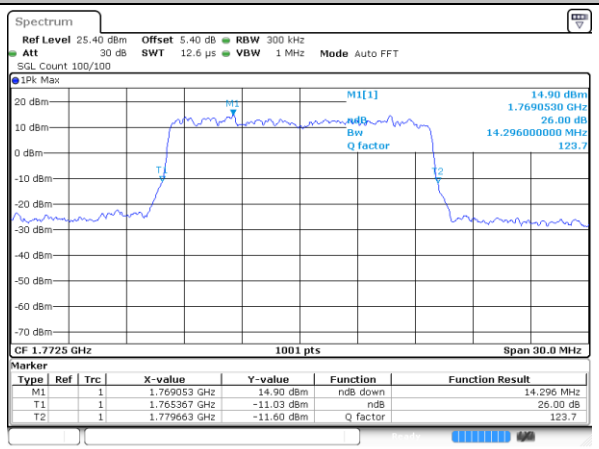
Middle Channel / 15MHz / QPSK



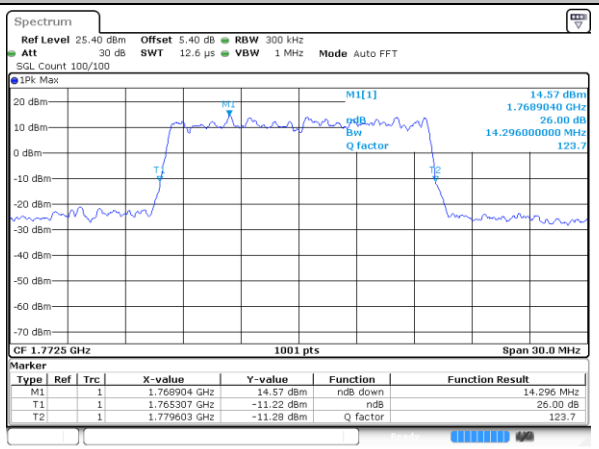
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

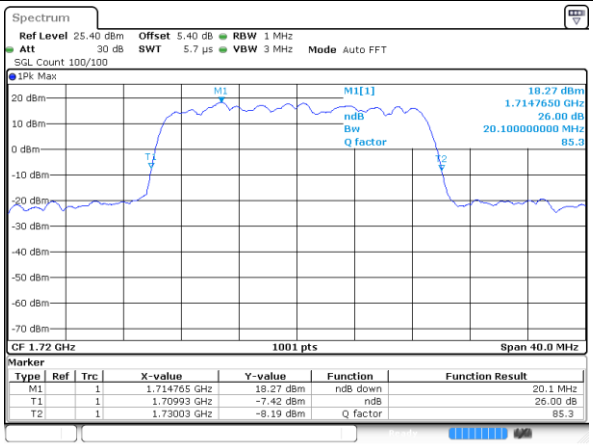


Highest Channel / 15MHz / 16QAM

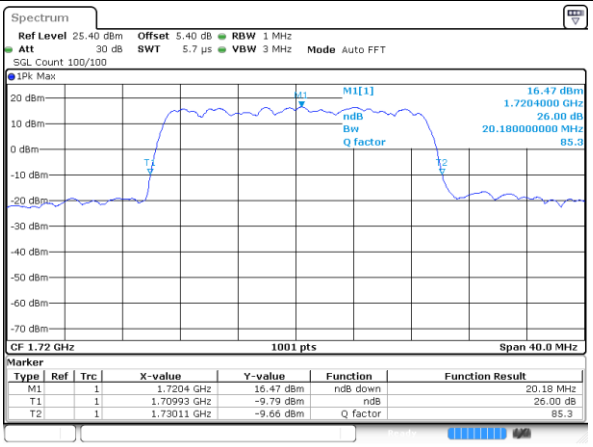


LTE Band 66

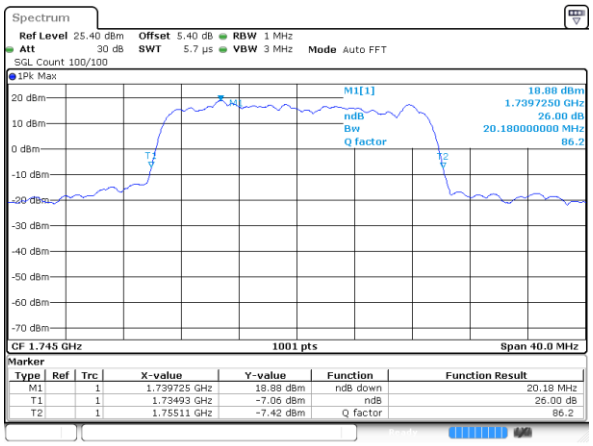
Lowest Channel / 20MHz / QPSK



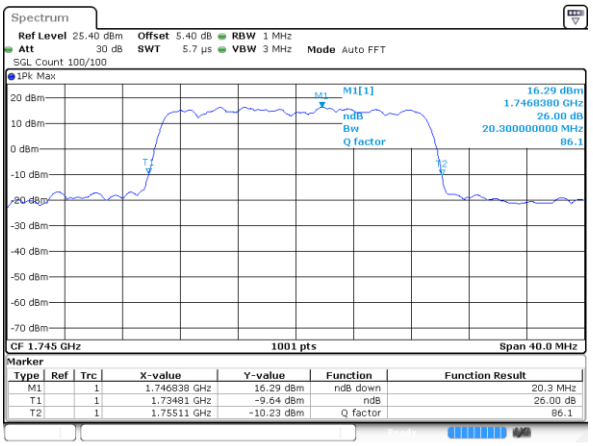
Lowest Channel / 20MHz / 16QAM



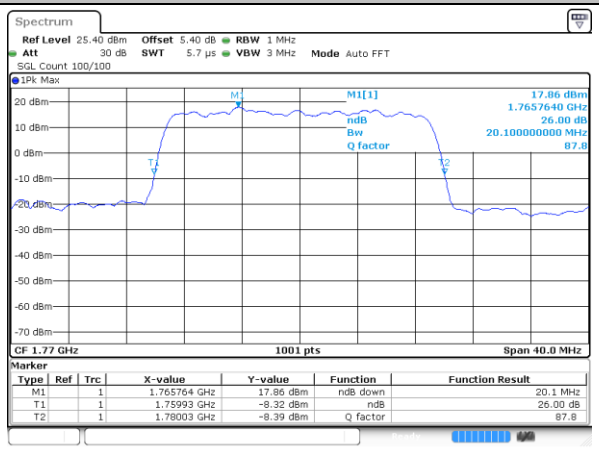
Middle Channel / 20MHz / QPSK



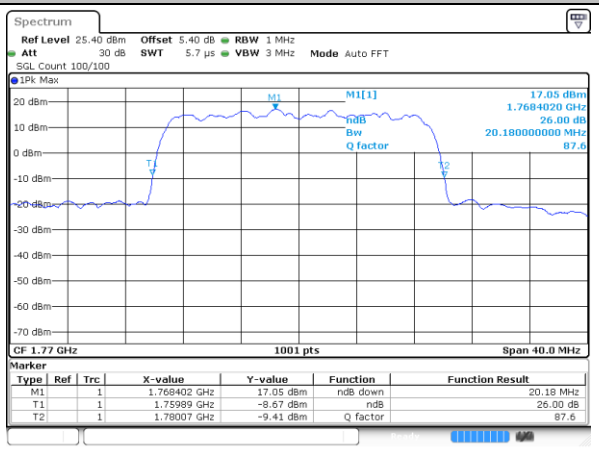
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

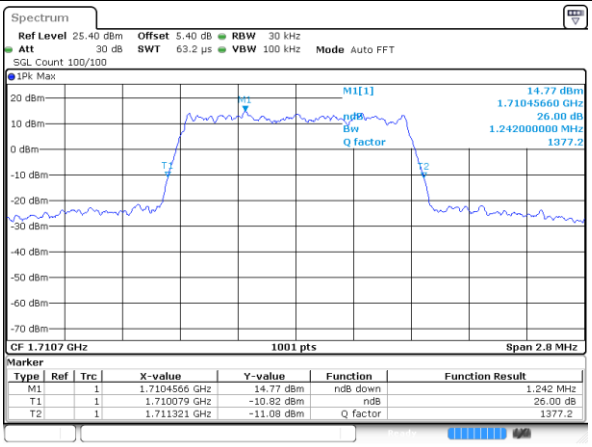


Highest Channel / 20MHz / 16QAM

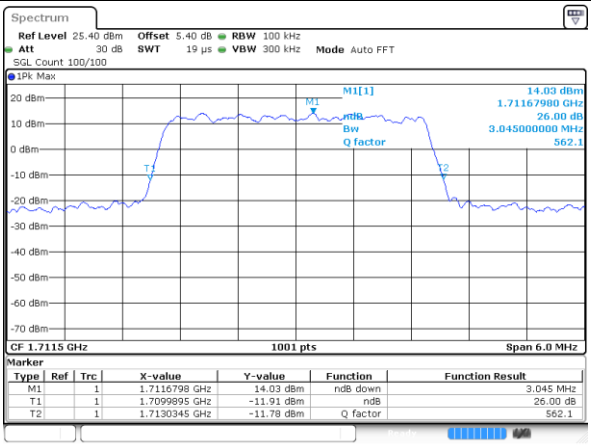


LTE Band 66

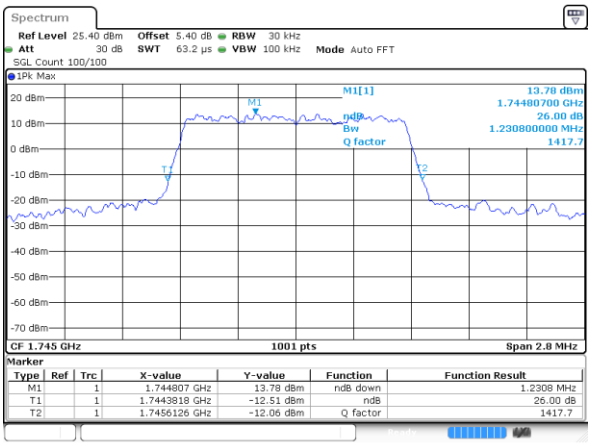
Lowest Channel / 1.4MHz / 64QAM



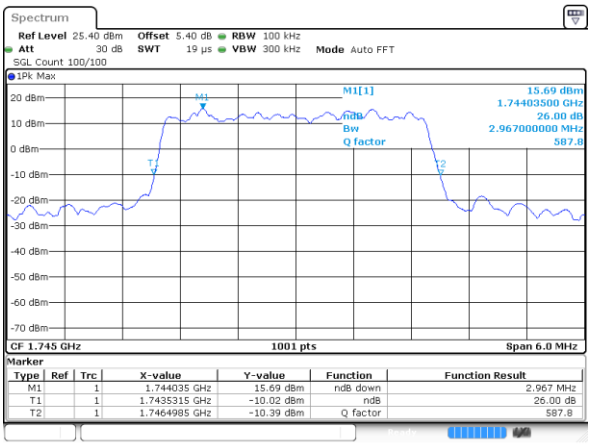
Lowest Channel / 3MHz / 64QAM



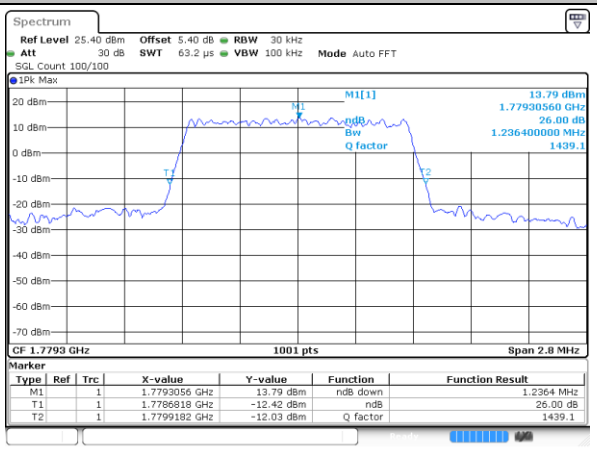
Middle Channel / 20MHz / 64QAM



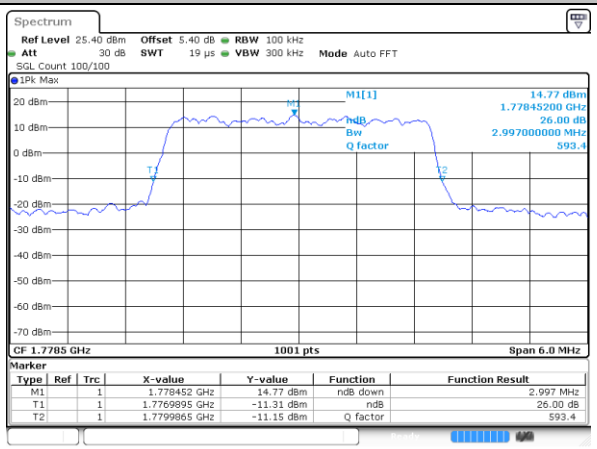
Middle Channel / 3MHz / 64QAM



Highest Channel / 20MHz / 64QAM

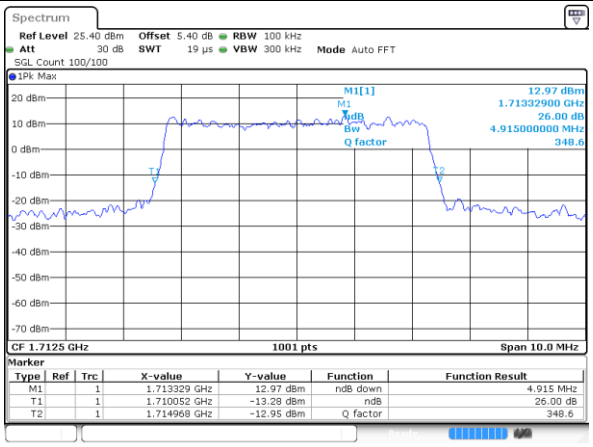


Highest Channel / 3MHz / 64QAM

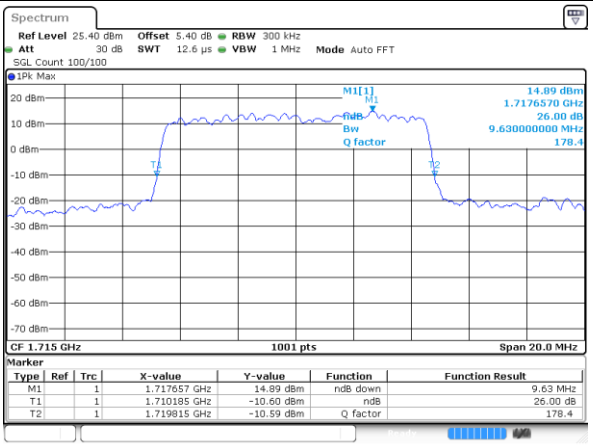


LTE Band 66

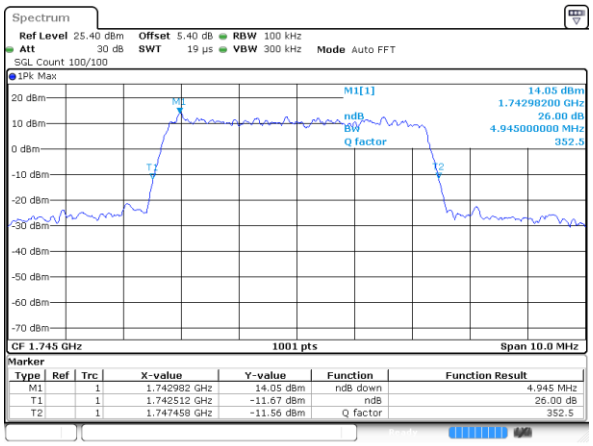
Lowest Channel / 5MHz / 64QAM



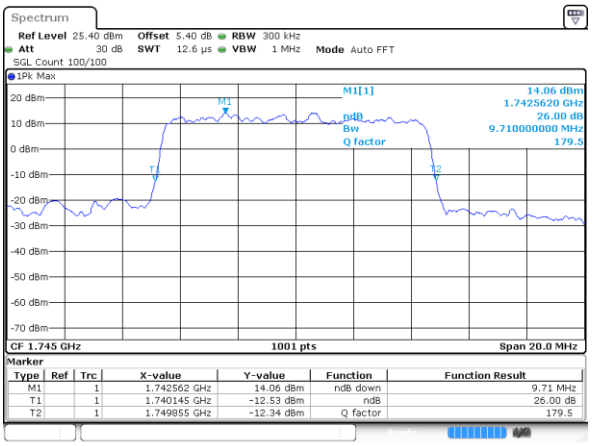
Lowest Channel / 10MHz / 64QAM



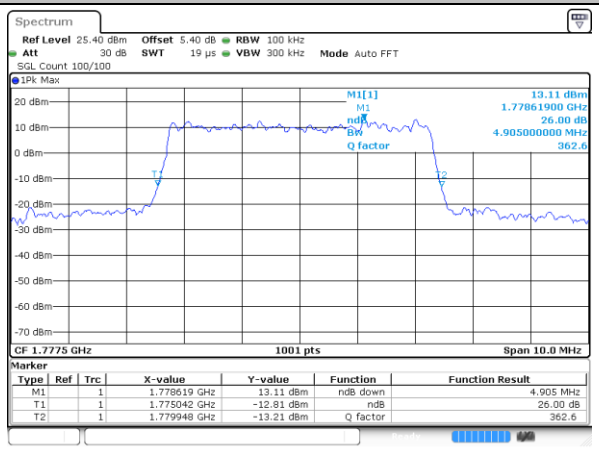
Middle Channel / 5MHz / 64QAM



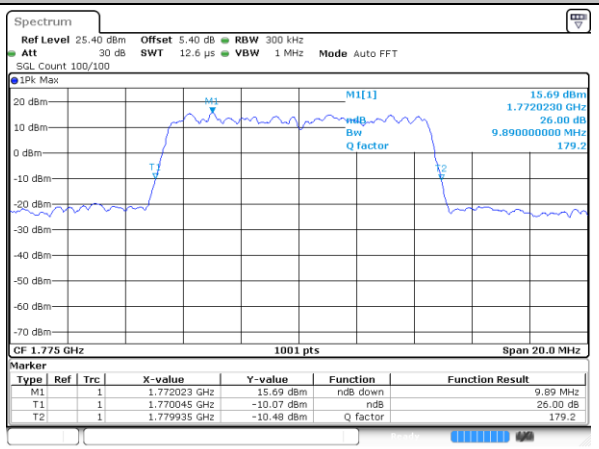
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

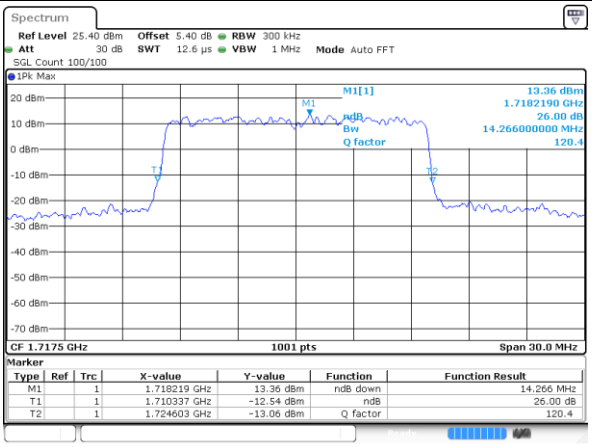


Highest Channel / 10MHz / 64QAM

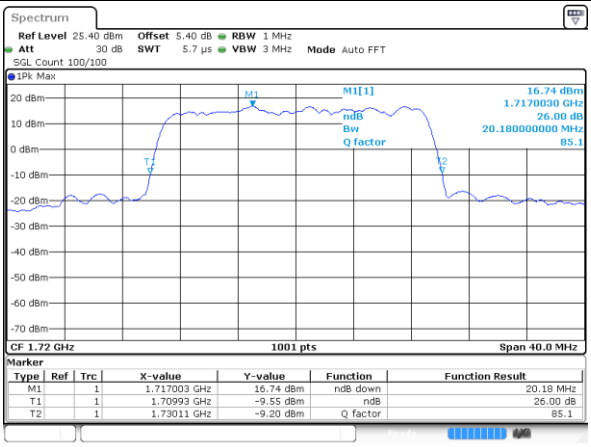


LTE Band 66

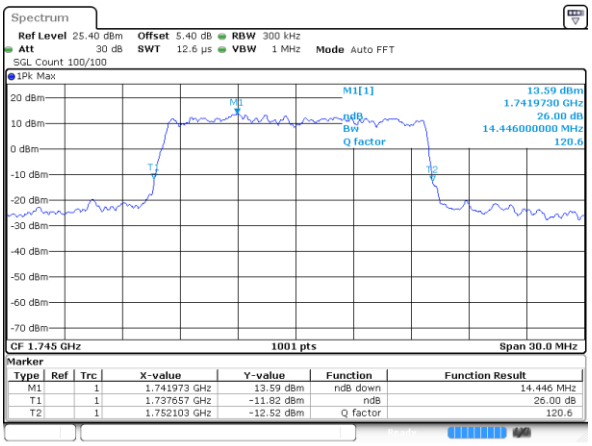
Lowest Channel / 15MHz / 64QAM



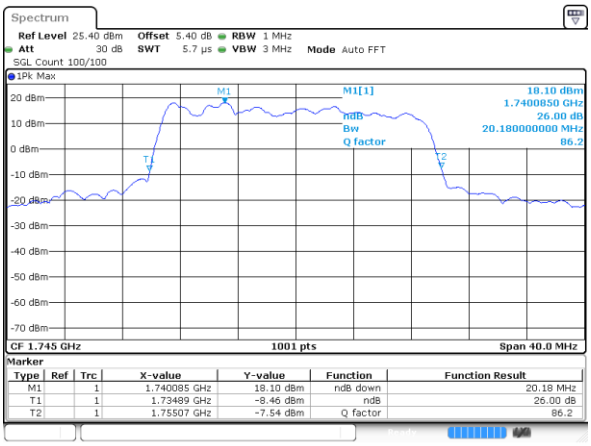
Lowest Channel / 20MHz / 64QAM



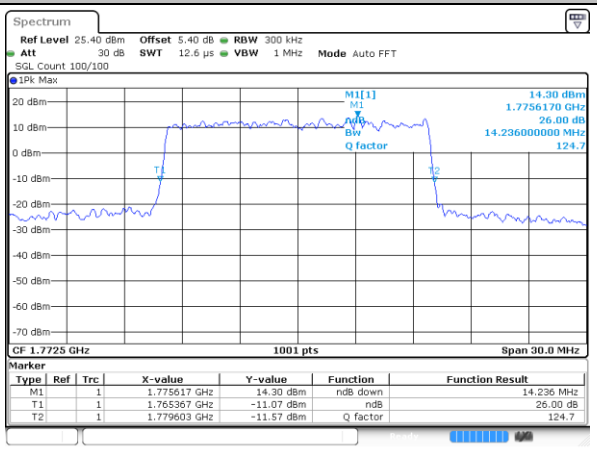
Middle Channel / 15MHz / 64QAM



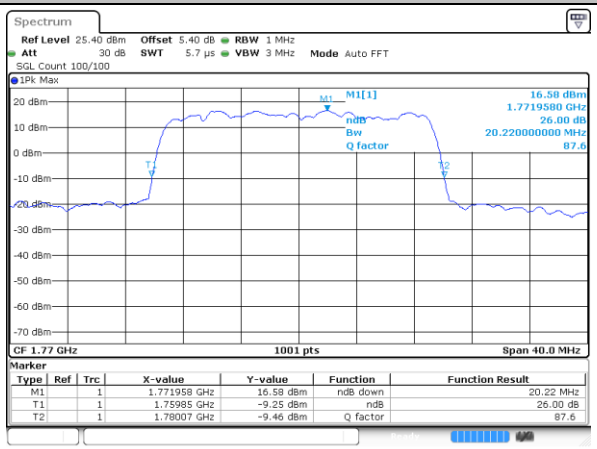
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

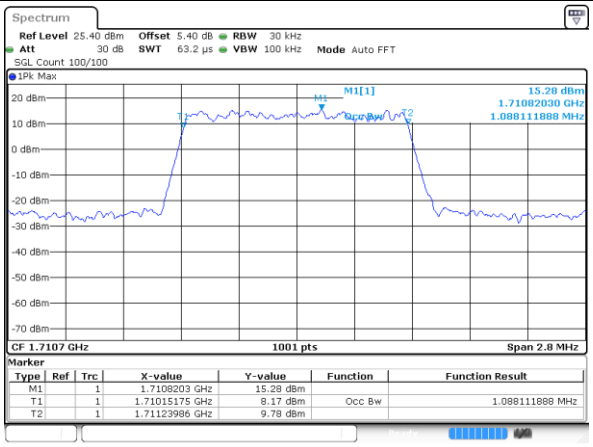


Occupied Bandwidth

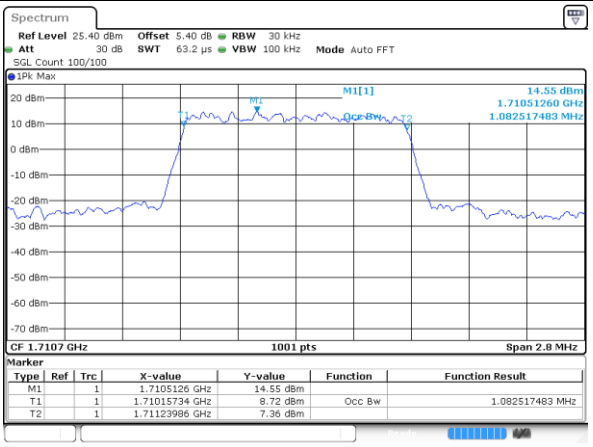
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.08	2.73	2.70	4.50	4.48	9.01	9.03	13.40	13.40	18.38	18.50
Middle CH	1.09	1.09	2.72	2.71	4.50	4.47	8.95	9.03	13.37	13.43	18.34	18.18
Highest CH	1.09	1.09	2.72	2.73	4.47	4.50	9.05	9.03	13.49	13.37	18.42	18.34
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.72	-	4.49	-	8.97	-	13.46	-	18.38	-
Middle CH	1.09	-	2.73	-	4.47	-	8.99	-	13.49	-	18.46	-
Highest CH	1.09	-	2.72	-	4.50	-	9.07	-	13.43	-	18.30	-

LTE Band 66

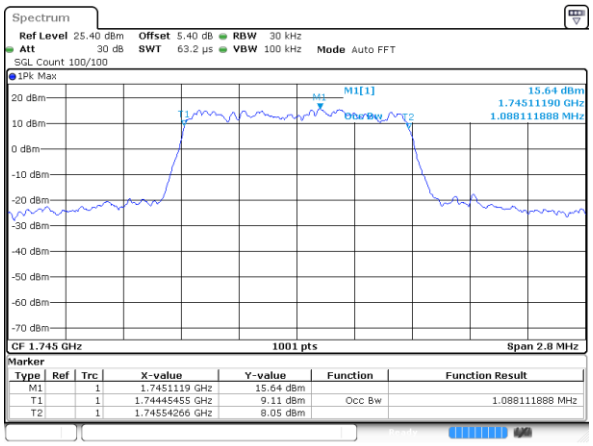
Lowest Channel / 1.4MHz / QPSK



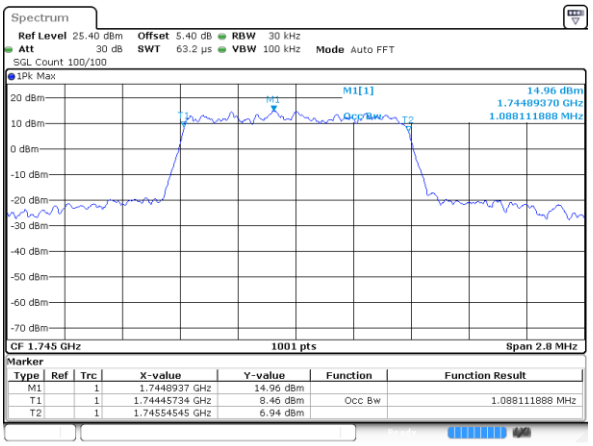
Lowest Channel / 1.4MHz / 16QAM



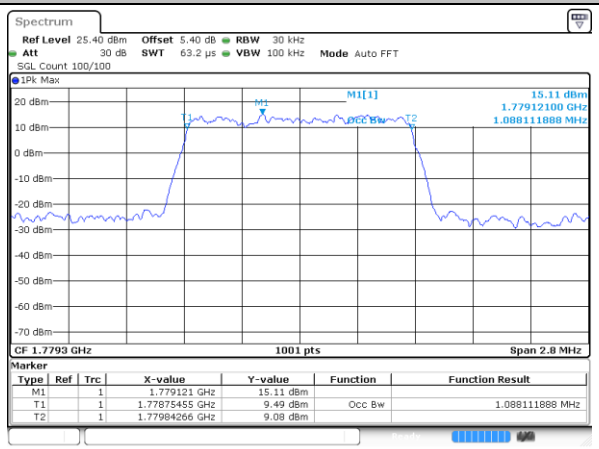
Middle Channel / 1.4MHz / QPSK



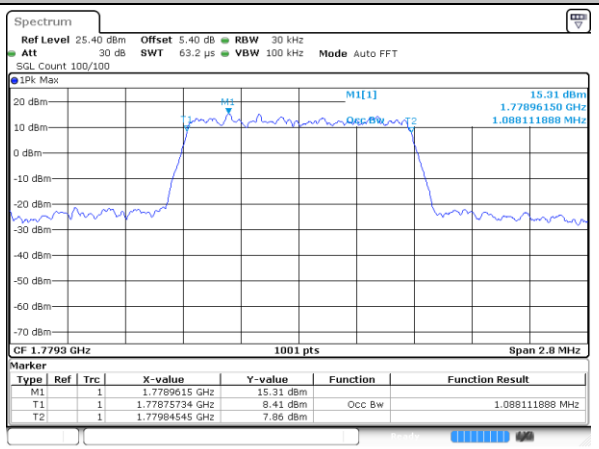
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

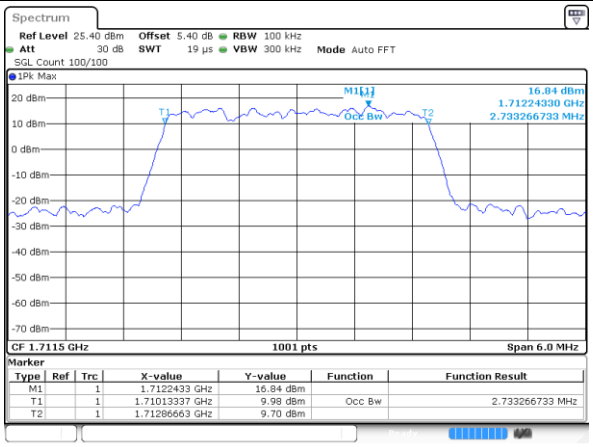


Highest Channel / 1.4MHz / 16QAM

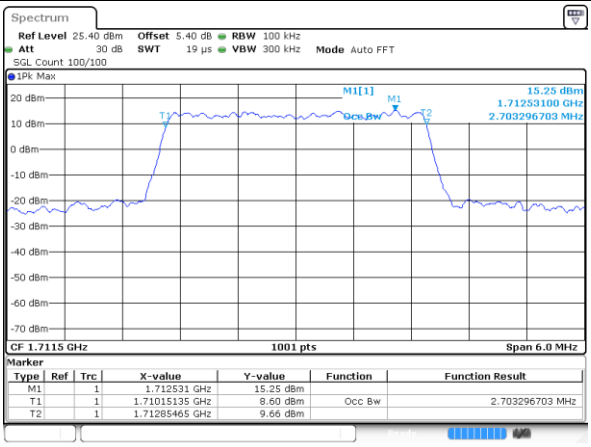


LTE Band 66

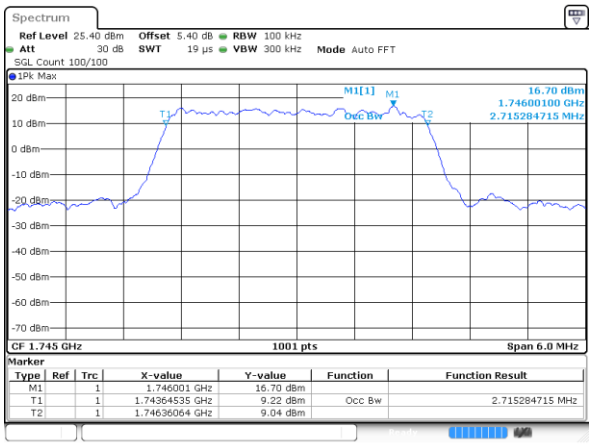
Lowest Channel / 3MHz / QPSK



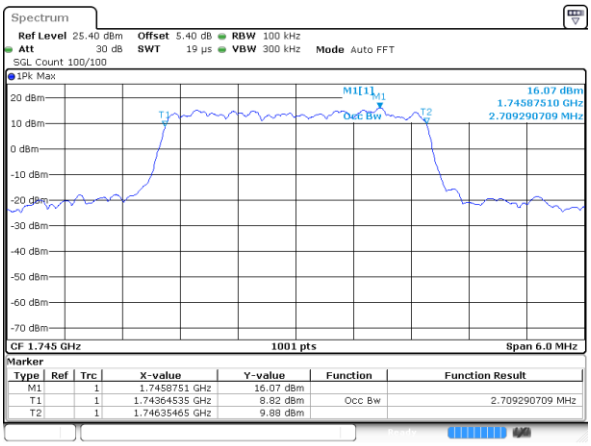
Lowest Channel / 3MHz / 16QAM



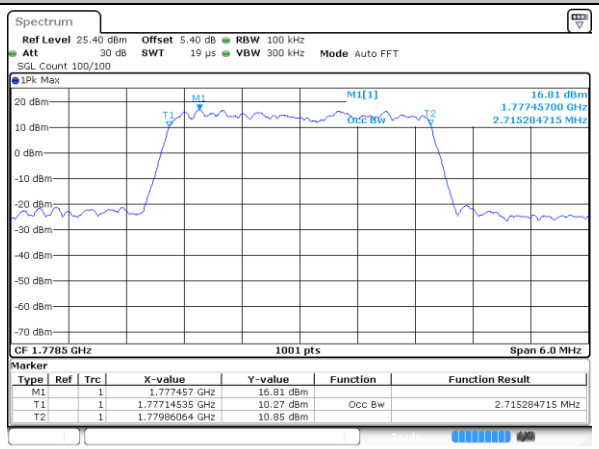
Middle Channel / 3MHz / QPSK



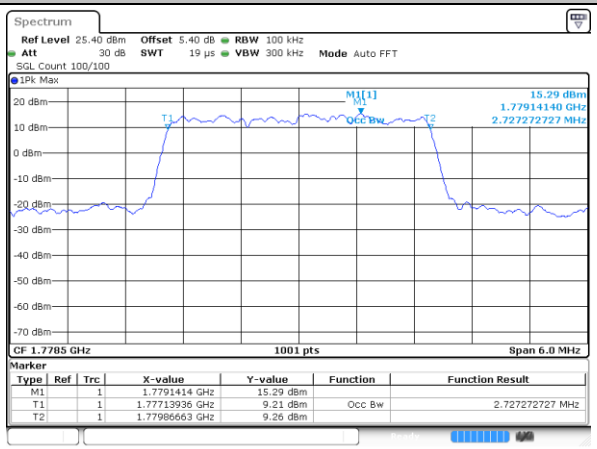
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

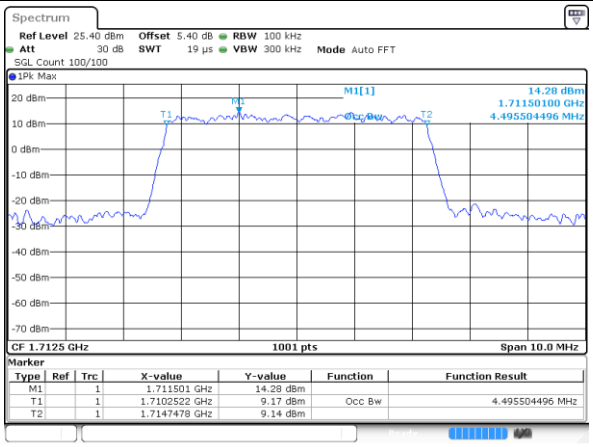


Highest Channel / 3MHz / 16QAM

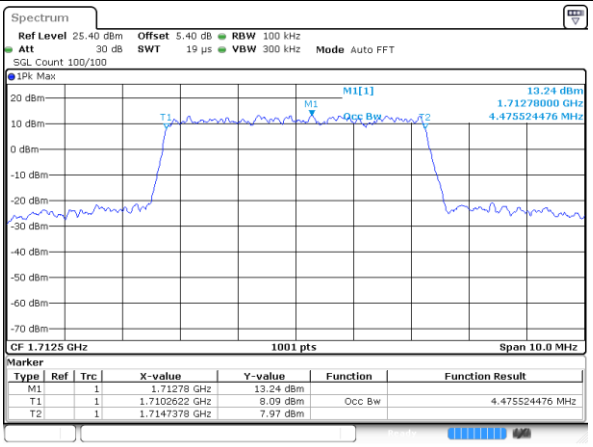


LTE Band 66

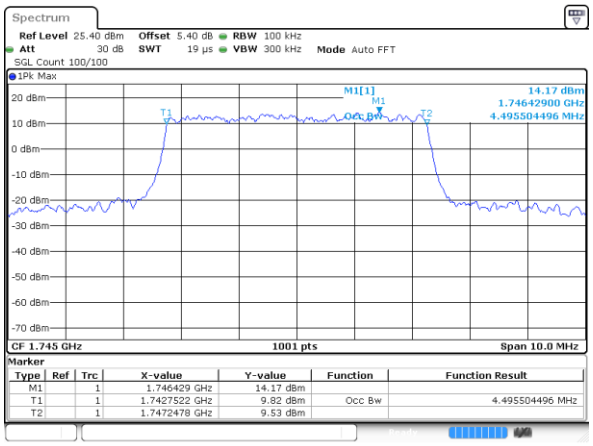
Lowest Channel / 5MHz / QPSK



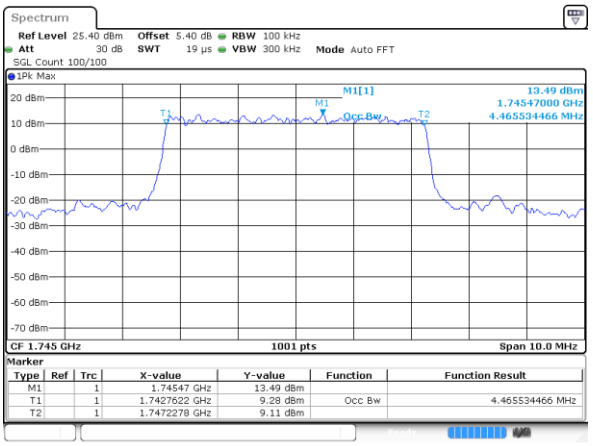
Lowest Channel / 5MHz / 16QAM



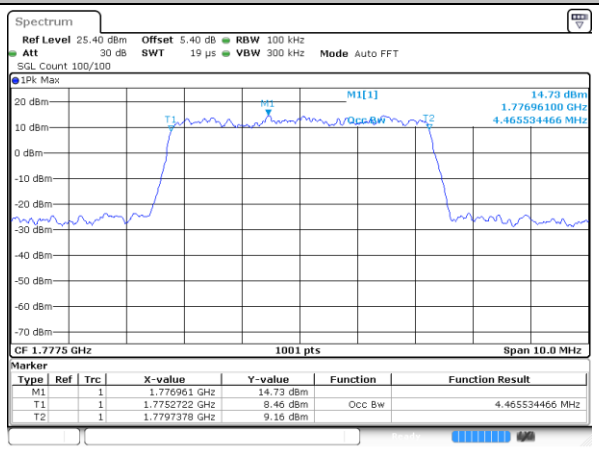
Middle Channel / 5MHz / QPSK



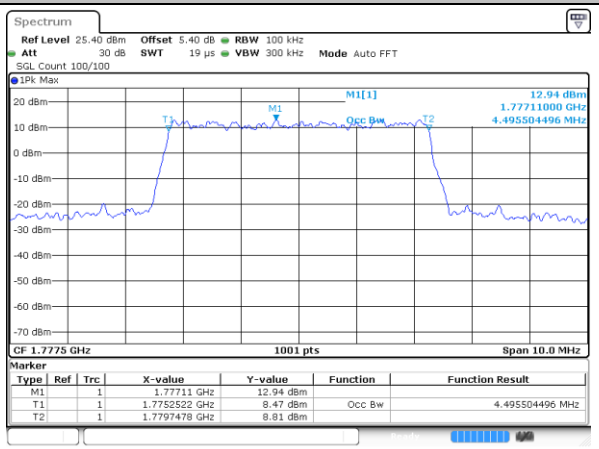
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

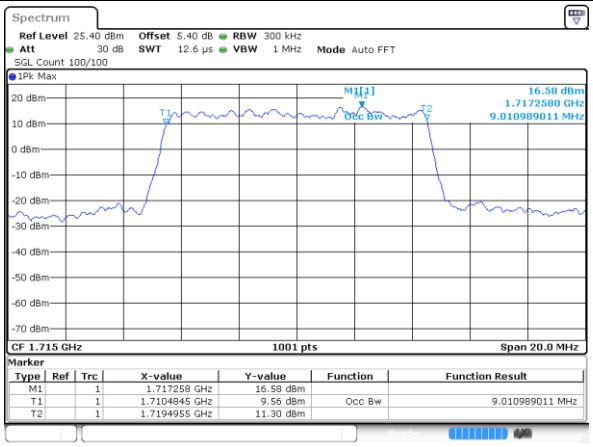


Highest Channel / 5MHz / 16QAM

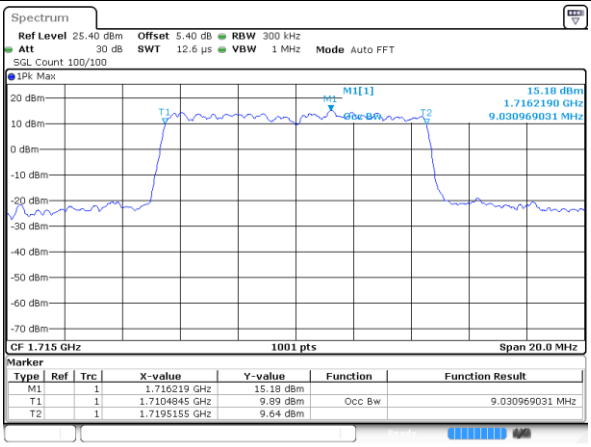


LTE Band 66

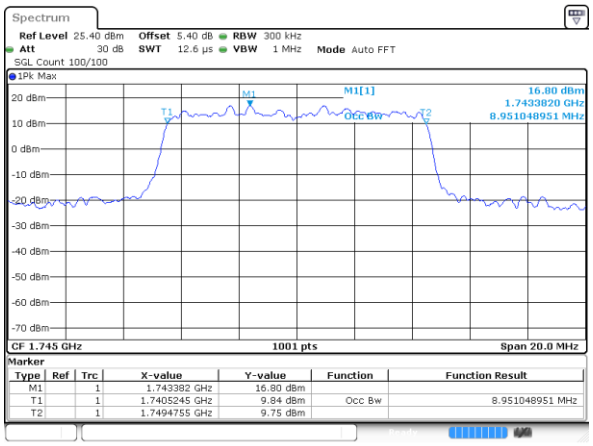
Lowest Channel / 10MHz / QPSK



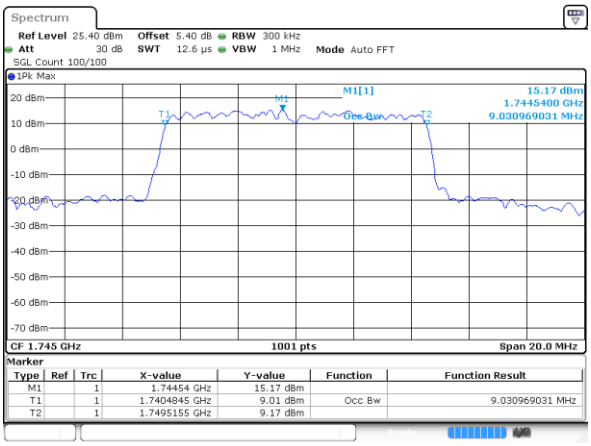
Lowest Channel / 10MHz / 16QAM



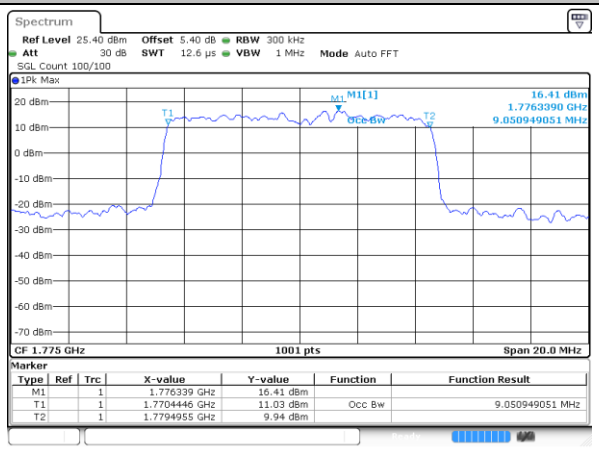
Middle Channel / 10MHz / QPSK



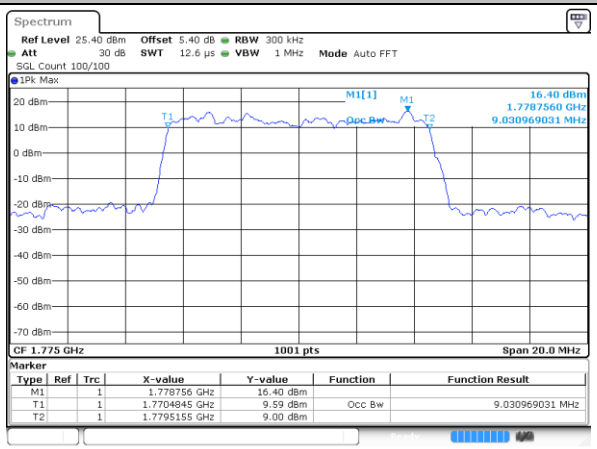
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

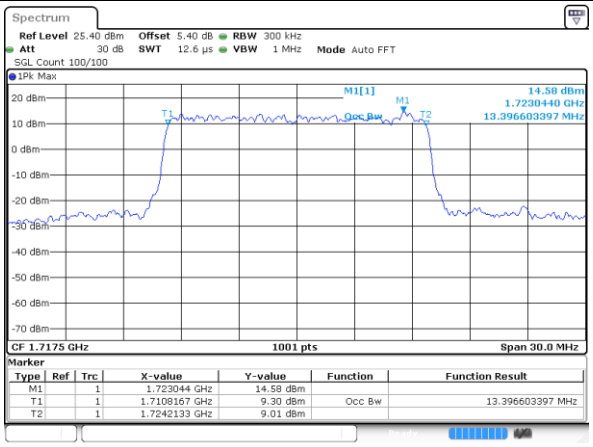


Highest Channel / 10MHz / 16QAM



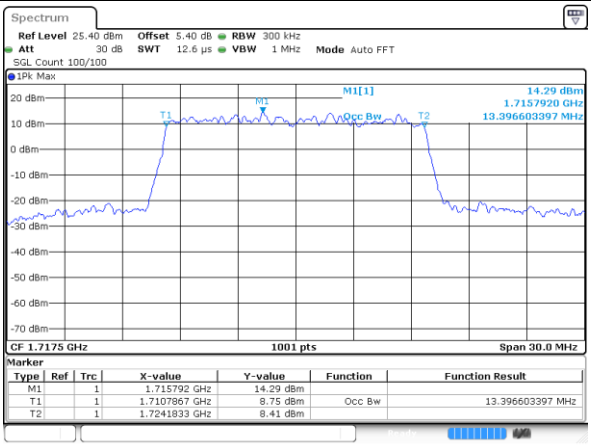
LTE Band 66

Lowest Channel / 15MHz / QPSK



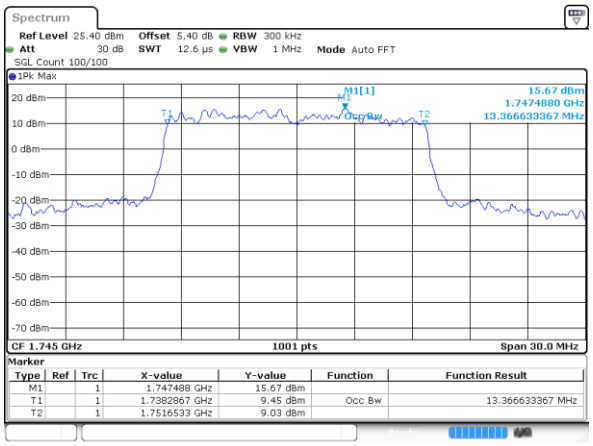
Date: 8.MAR.2020 14:27:31

Lowest Channel / 15MHz / 16QAM



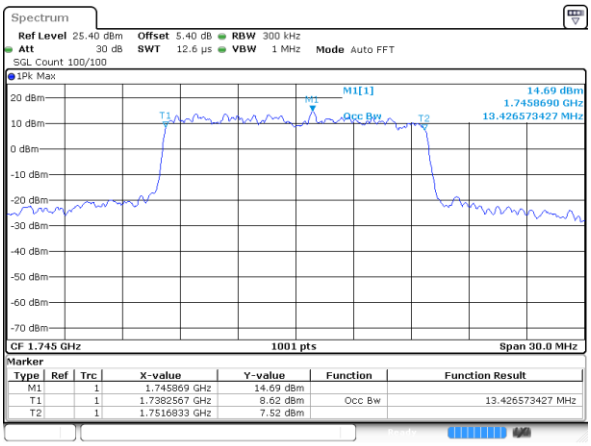
Date: 8.MAR.2020 14:26:53

Middle Channel / 15MHz / QPSK



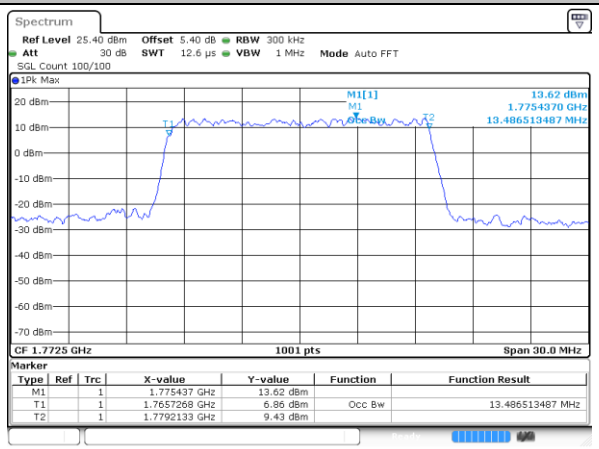
Date: 8.MAR.2020 14:34:28

Middle Channel / 15MHz / 16QAM



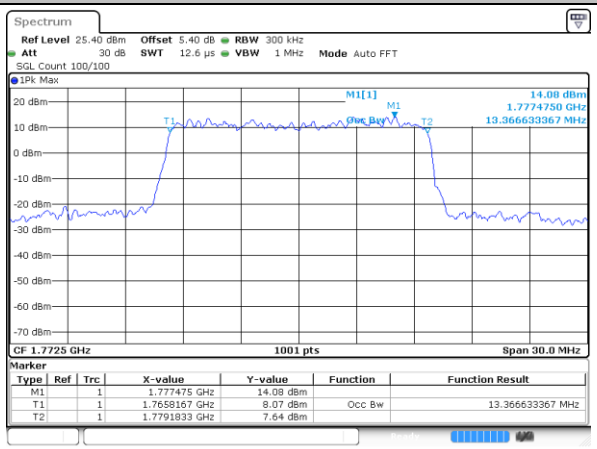
Date: 8.MAR.2020 14:34:50

Highest Channel / 15MHz / QPSK



Date: 8.MAR.2020 14:36:46

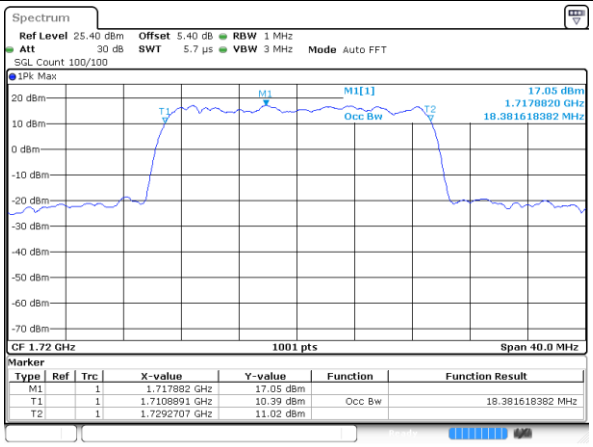
Highest Channel / 15MHz / 16QAM



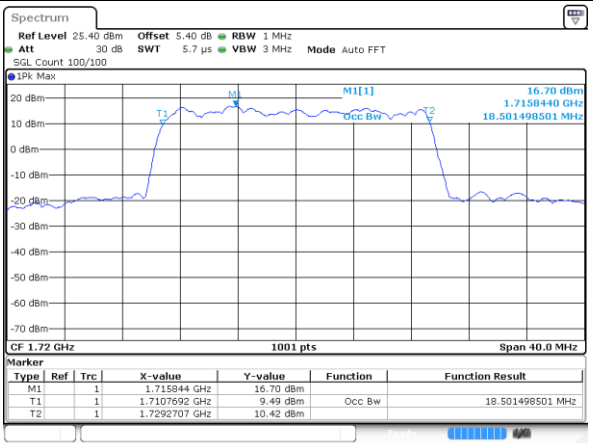
Date: 8.MAR.2020 14:36:10

LTE Band 66

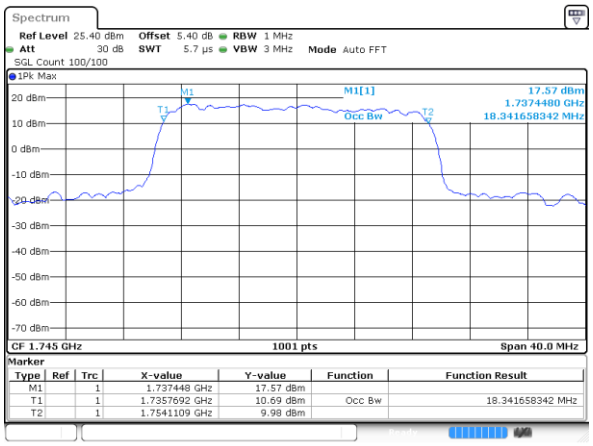
Lowest Channel / 20MHz / QPSK



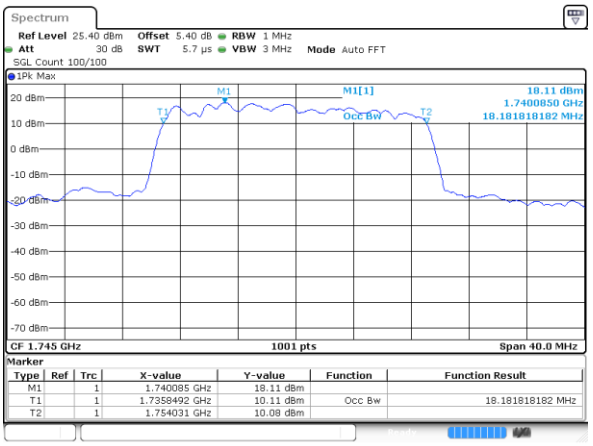
Lowest Channel / 20MHz / 16QAM



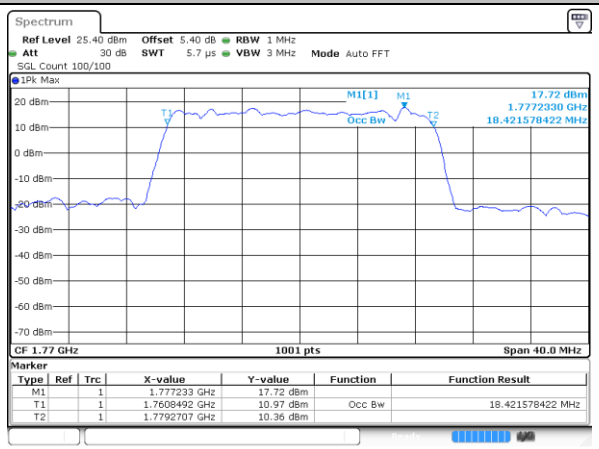
Middle Channel / 20MHz / QPSK



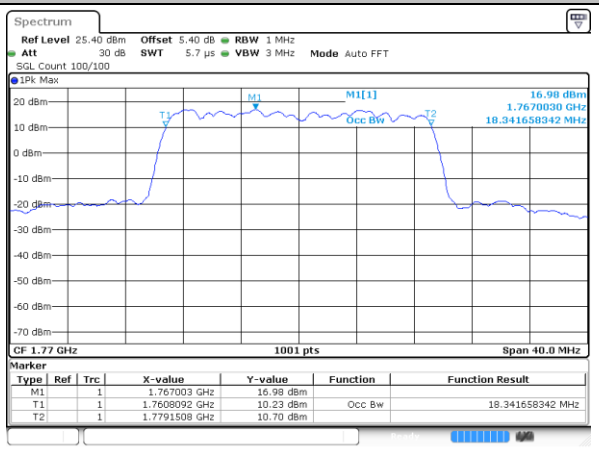
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

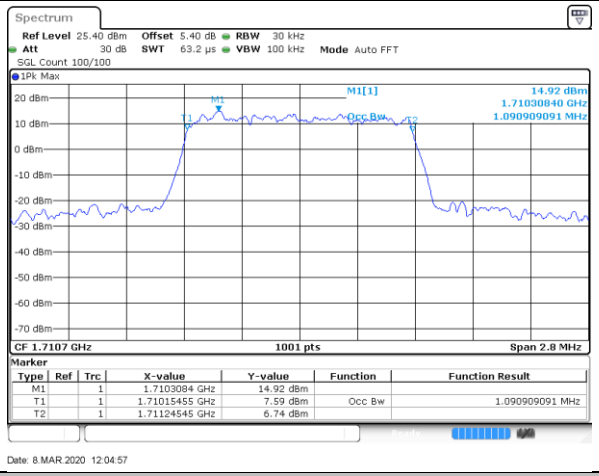


Highest Channel / 20MHz / 16QAM

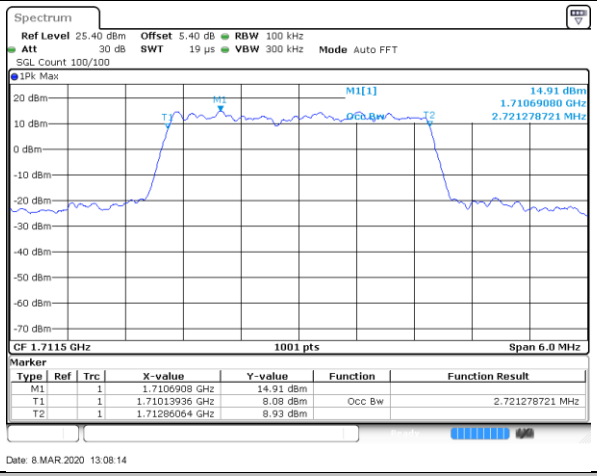


LTE Band 66

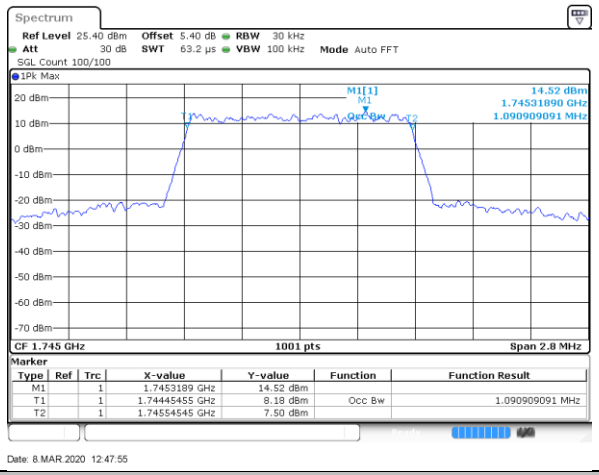
Lowest Channel / 1.4MHz / 64QAM



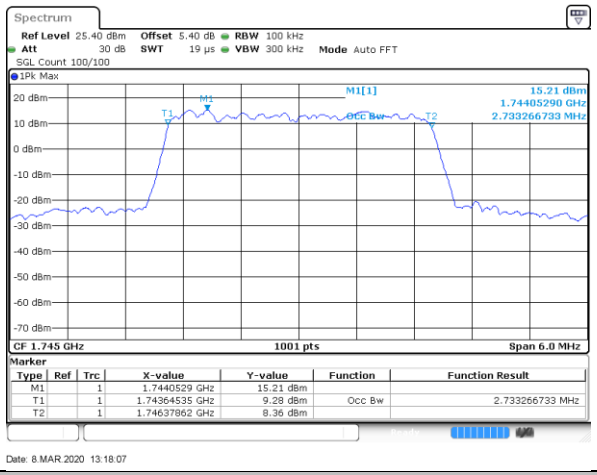
Lowest Channel / 3MHz / 64QAM



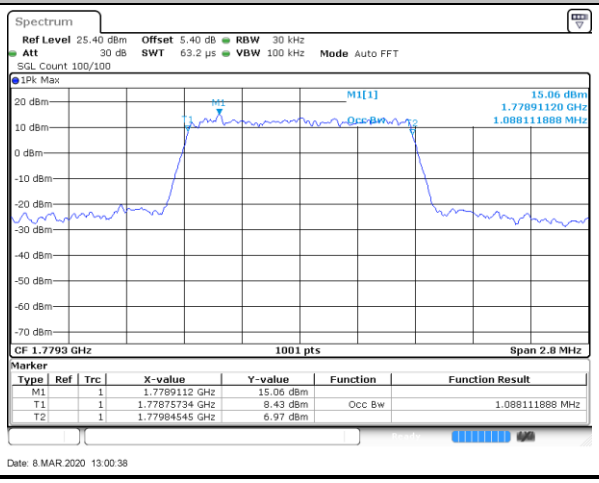
Middle Channel / 20MHz / 64QAM



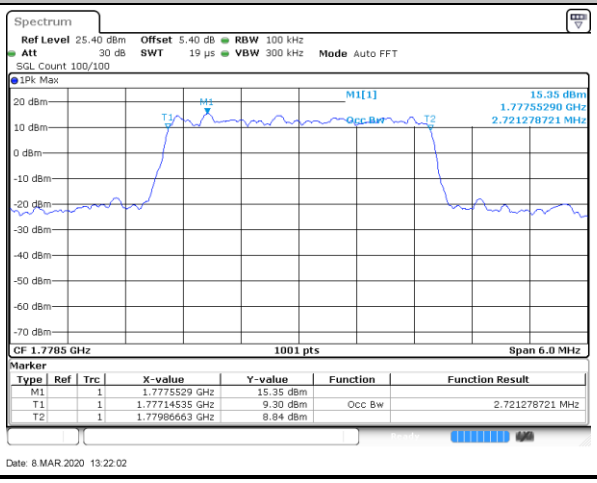
Middle Channel / 3MHz / 64QAM



Highest Channel / 20MHz / 64QAM

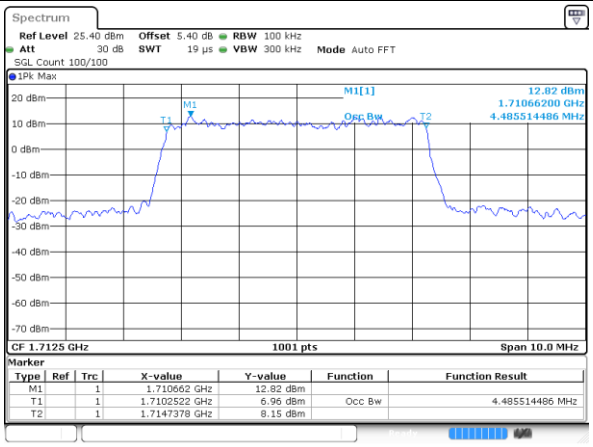


Highest Channel / 3MHz / 64QAM

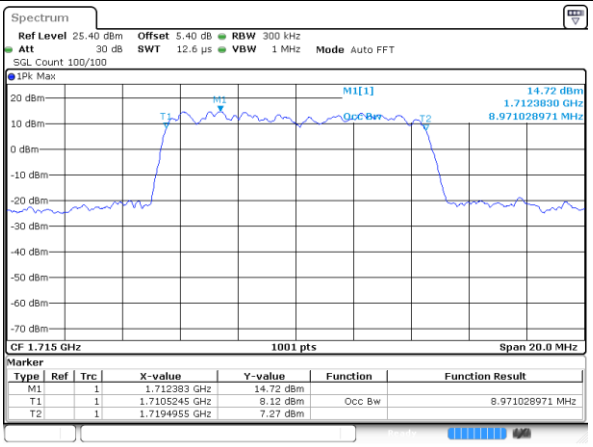


LTE Band 66

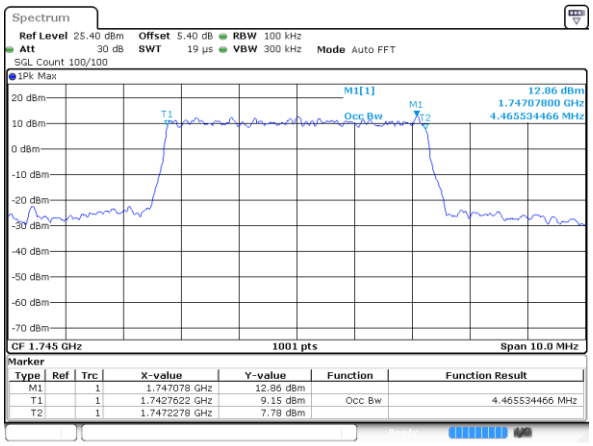
Lowest Channel / 5MHz / 64QAM



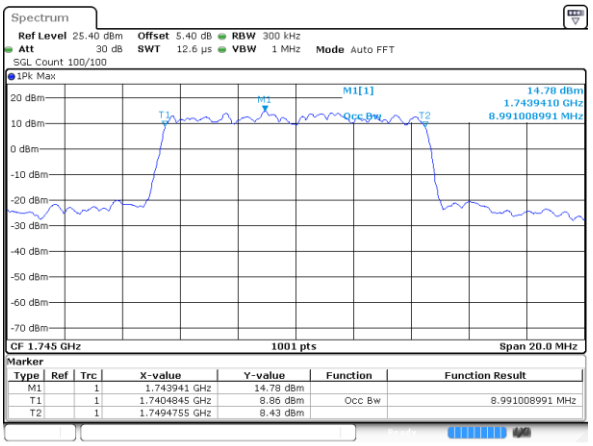
Lowest Channel / 10MHz / 64QAM



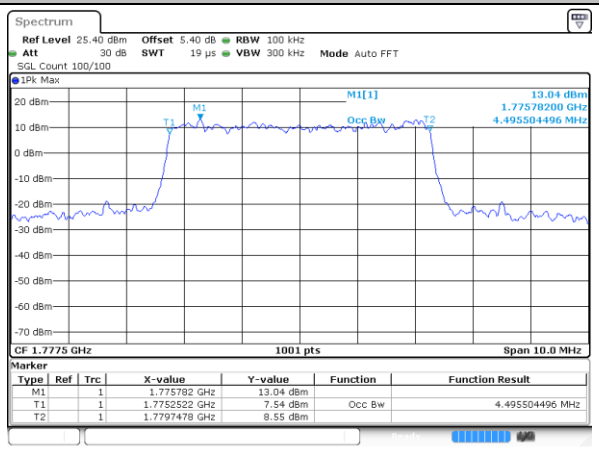
Middle Channel / 5MHz / 64QAM



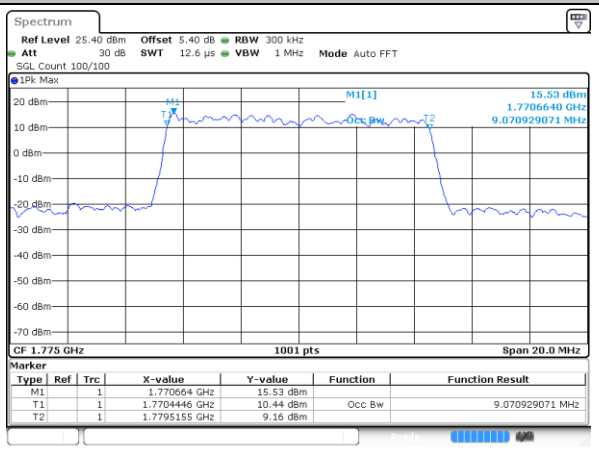
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

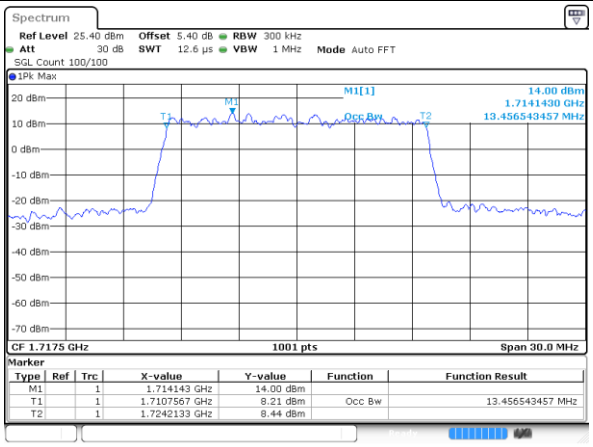


Highest Channel / 10MHz / 64QAM

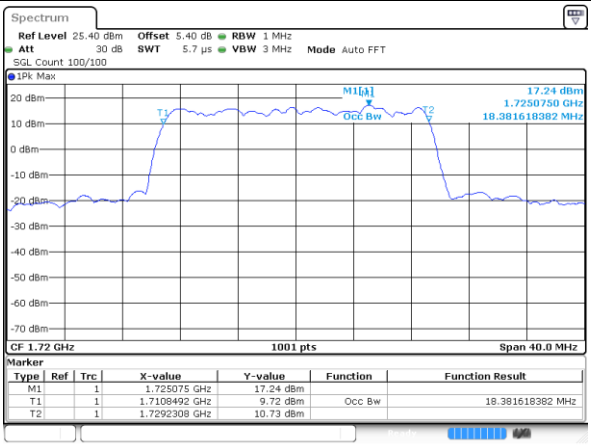


LTE Band 66

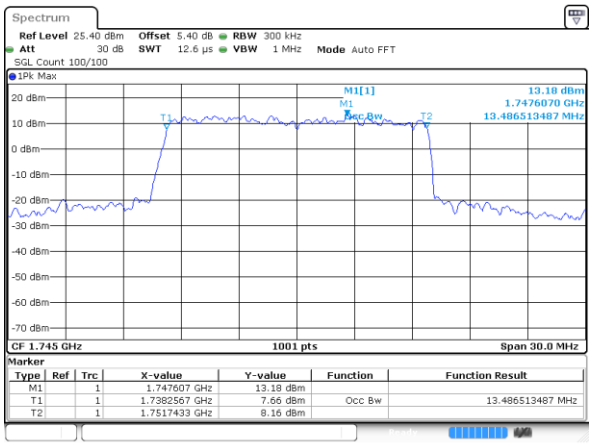
Lowest Channel / 15MHz / 64QAM



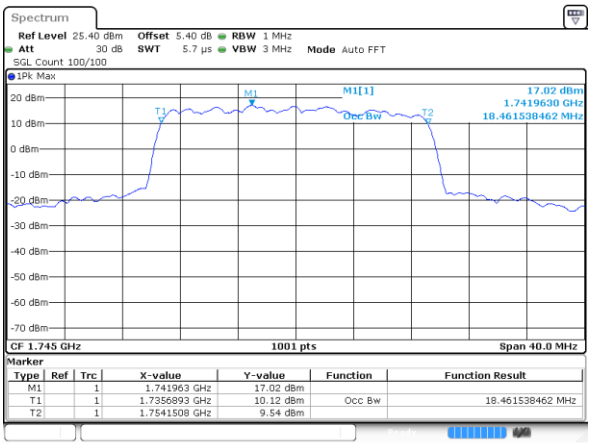
Lowest Channel / 20MHz / 64QAM



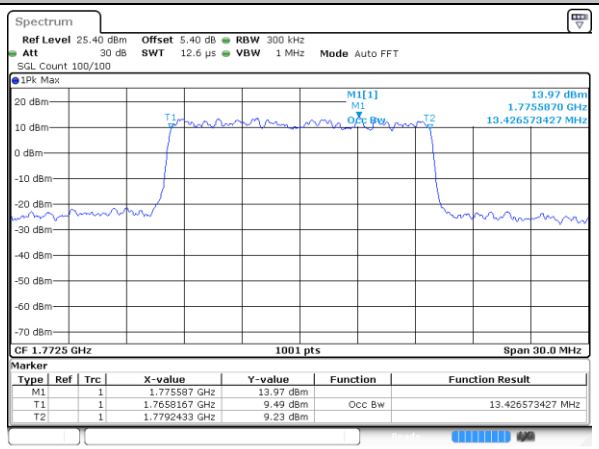
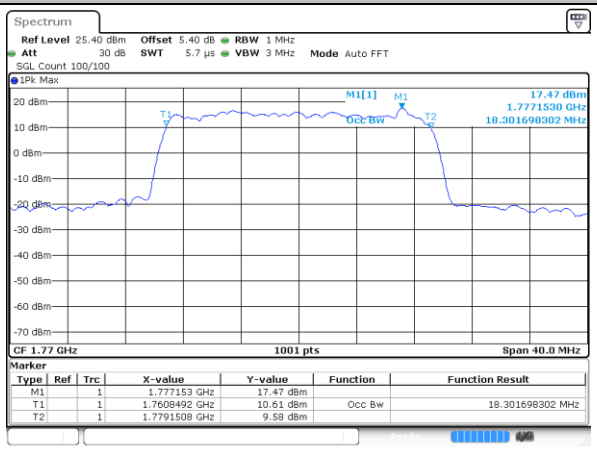
Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM