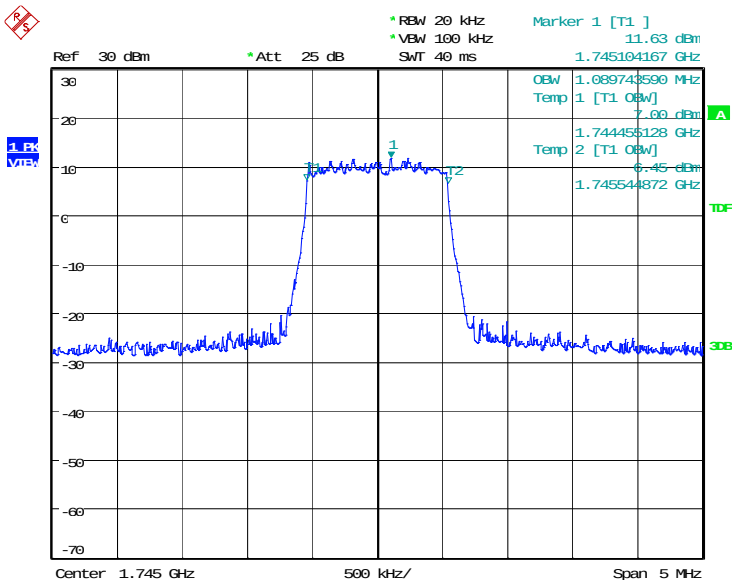
LTE band 66, 1.4MHz Bandwidth, 64QAM (99% BW)

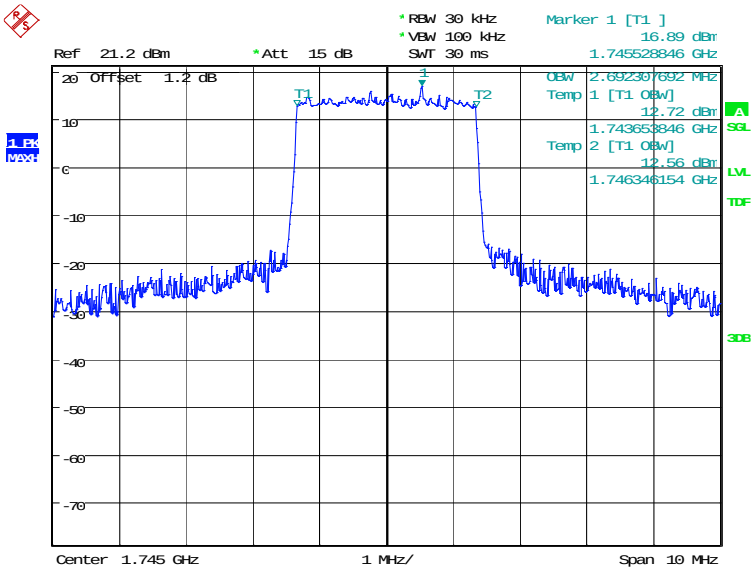


Date: 18.JAN.2020 17:19:10

LTE band 66, 3MHz (99%)

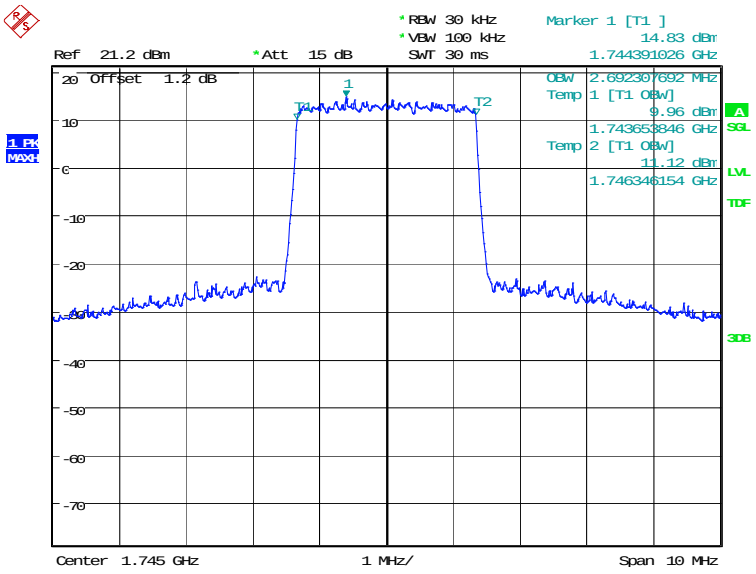
Frequency (MHz)	Occupied Bandwidth (99%) (kHz)		
1745.0	QPSK	16QAM	64QAM
	2692.31	2692.31	2692.31

LTE band 66, 3MHz Bandwidth, QPSK (99% BW)



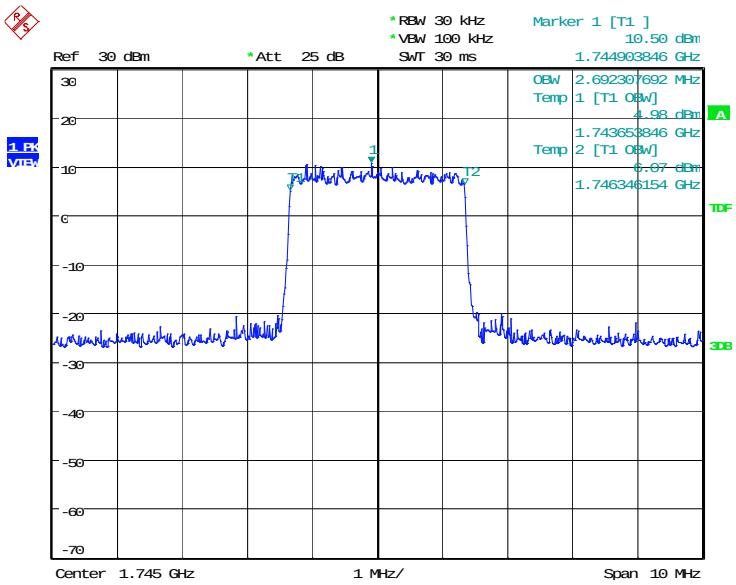
Date: 14.JAN.2020 02:22:36

LTE band 66, 3MHz Bandwidth, 16QAM (99% BW)



Date: 14.JAN.2020 02:24:01

LTE band 66, 3MHz Bandwidth, 64QAM (99% BW)

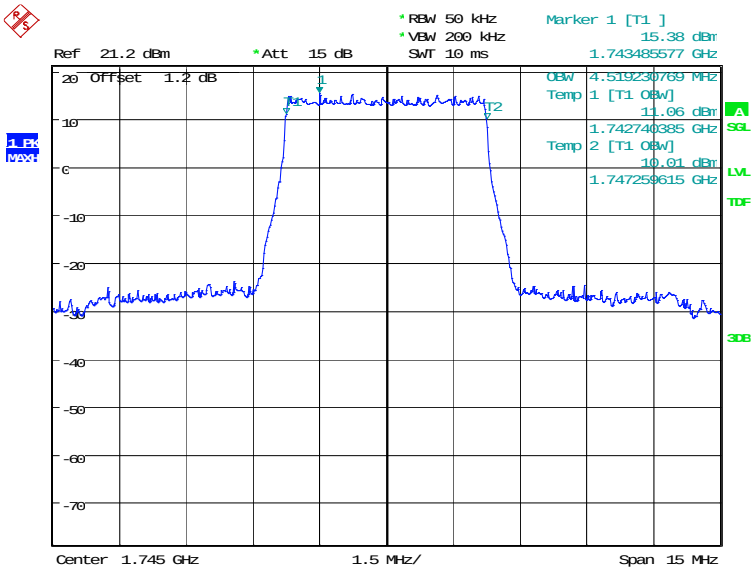


Date: 18.JAN.2020 17:20:17

LTE band 66, 5MHz (99%)

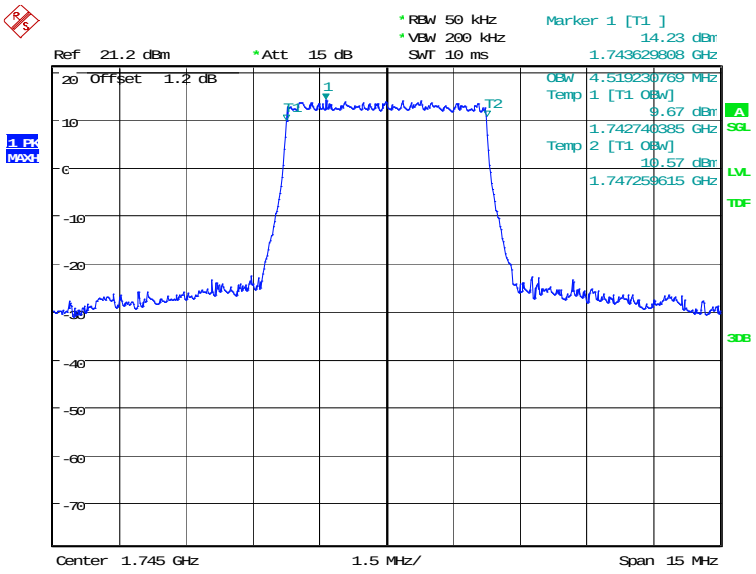
Frequency (MHz)	Occupied Bandwidth (99%) (kHz)		
1745.0	QPSK	16QAM	64QAM
	4519.23	4519.23	4519.23

LTE band 66, 5MHz Bandwidth, QPSK (99% BW)



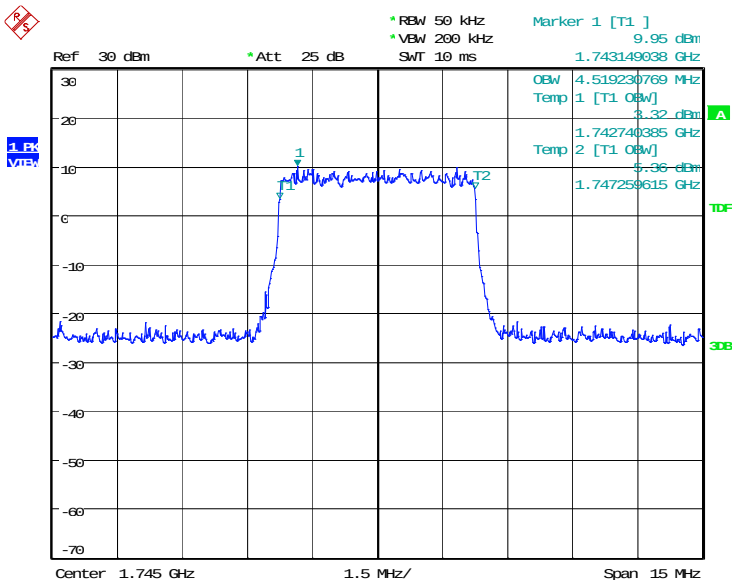
Date: 14.JAN.2020 02:25:27

LTE band 66, 5MHz Bandwidth, 16QAM (99% BW)



Date: 14.JAN.2020 02:26:52

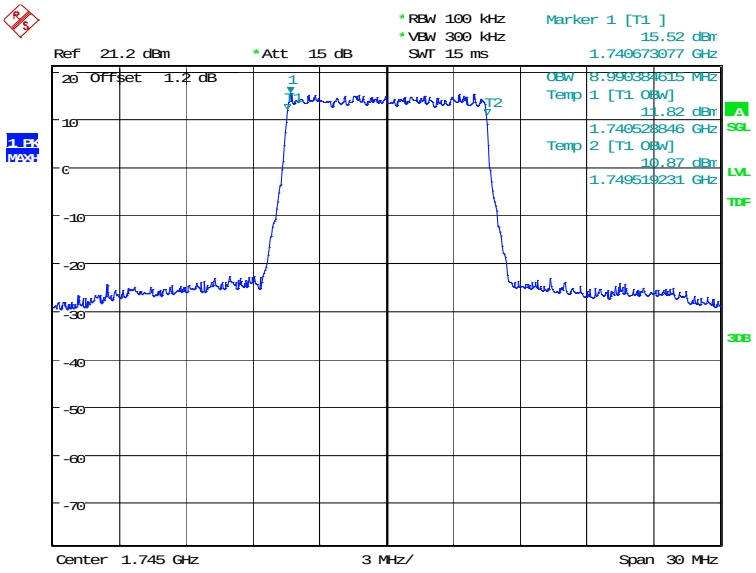
LTE band 66, 5MHz Bandwidth,64QAM (99% BW)



LTE band 66, 10MHz (99%)

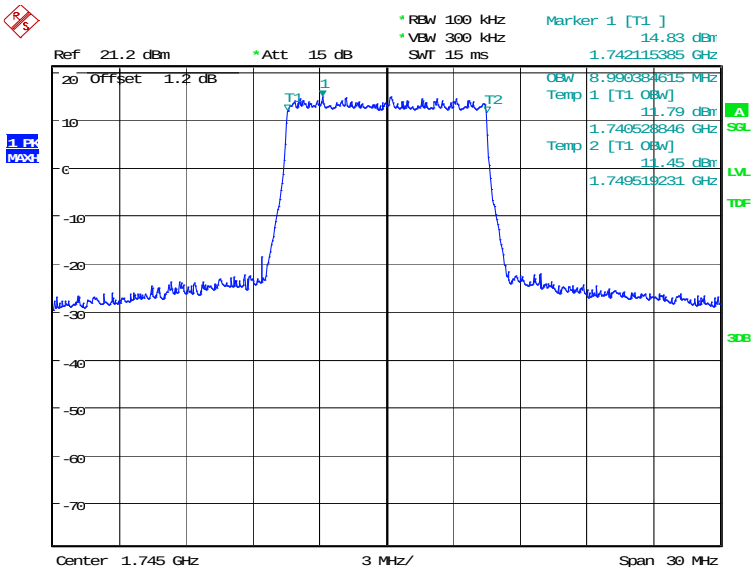
Frequency (MHz)	Occupied Bandwidth (99%) (kHz)		
1745.0	QPSK	16QAM	64QAM
	8990.38	8990.38	9038.46

LTE band 66, 10MHz Bandwidth, QPSK (99% BW)



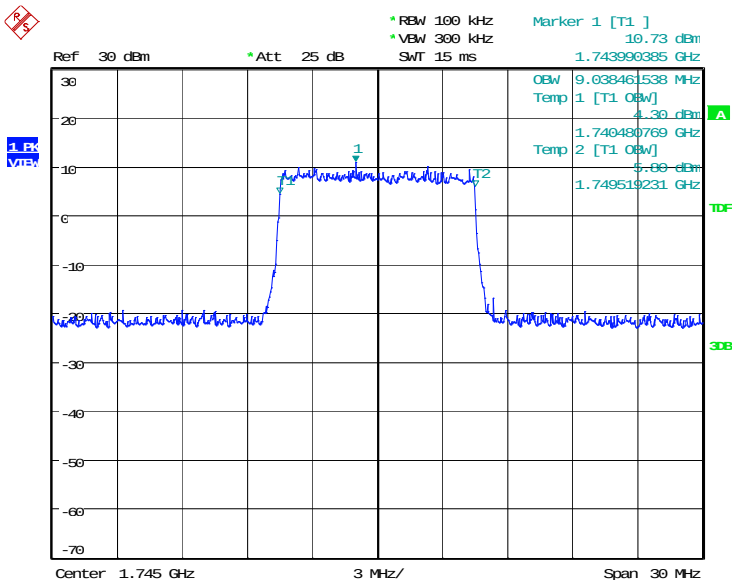
Date: 14.JAN.2020 02:29:15

LTE band 66, 10MHz Bandwidth, 16QAM (99% BW)



Date: 14.JAN.2020 02:30:40

LTE band 66, 10MHz Bandwidth, 64QAM (99% BW)

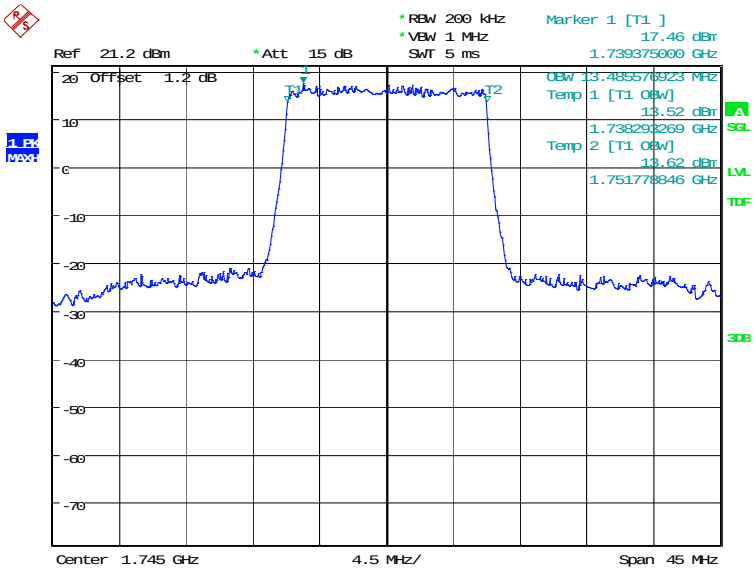


Date: 18.JAN.2020 17:22:41

LTE band 66, 15MHz (99%)

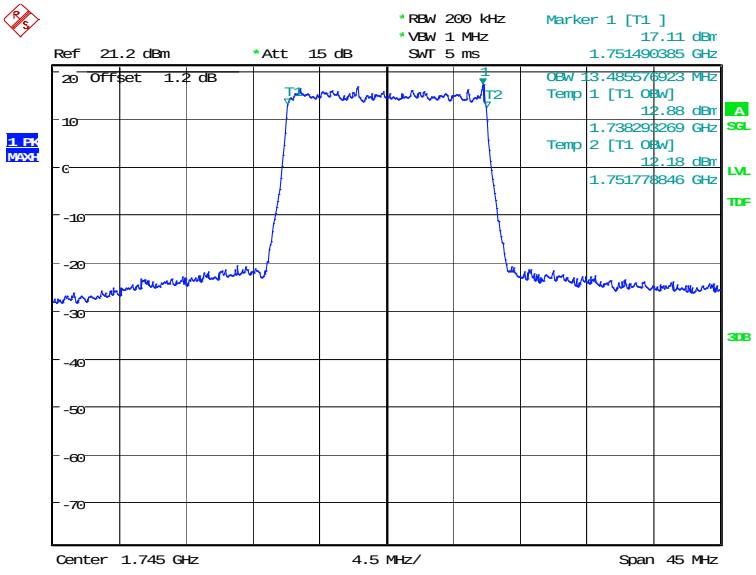
Frequency (MHz)	Occupied Bandwidth (99%) (kHz)		
1745.0	QPSK	16QAM	64QAM
	13485.58	13485.58	13485.58

LTE band 66, 15MHz Bandwidth, QPSK (99% BW)



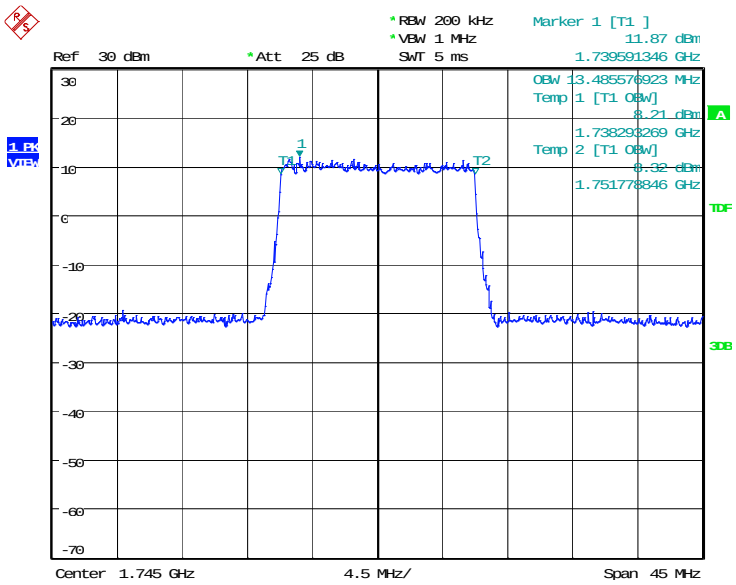
Date: 14.JAN.2020 02:33:01

LTE band 66, 15MHz Bandwidth, 16QAM (99% BW)



Date: 14.JAN.2020 02:34:26

LTE band 66, 15MHz Bandwidth, 64QAM (99% BW)

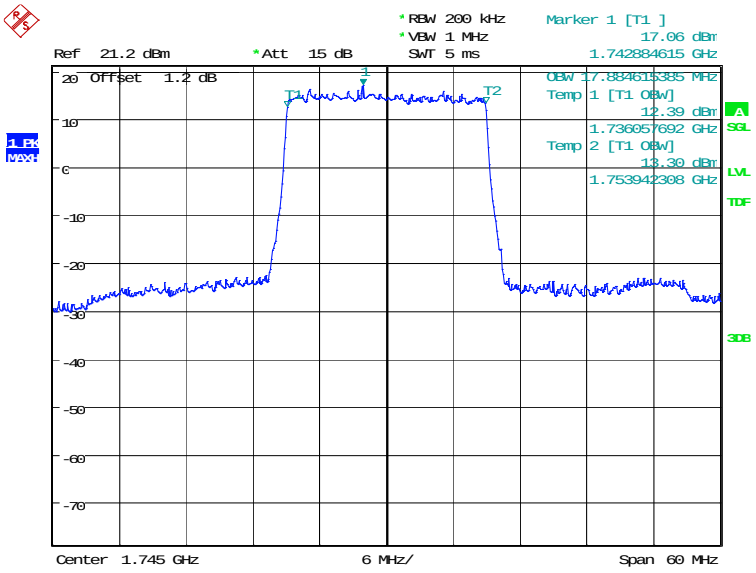


Date: 18.JAN.2020 17:23:53

LTE band 66, 20MHz (99%)

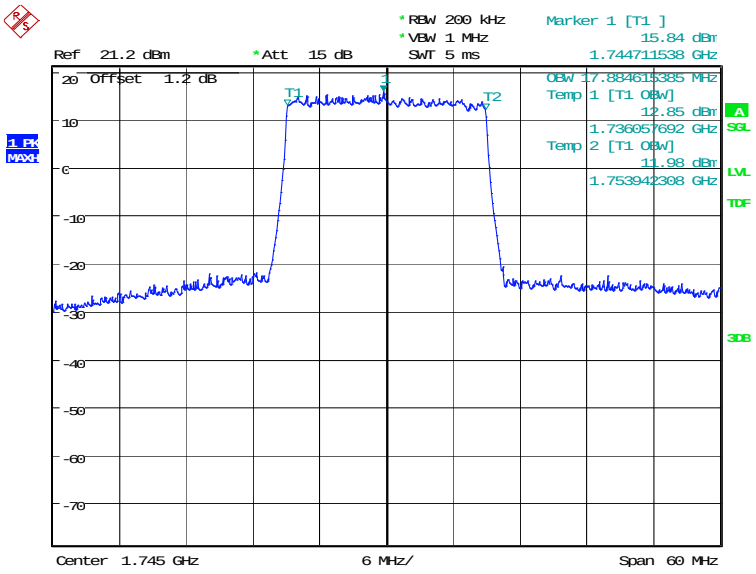
Frequency (MHz)	Occupied Bandwidth (99%) (kHz)		
1745.0	QPSK	16QAM	64QAM
	17884.62	17884.62	17980.77

LTE band 66, 20MHz Bandwidth, QPSK (99% BW)



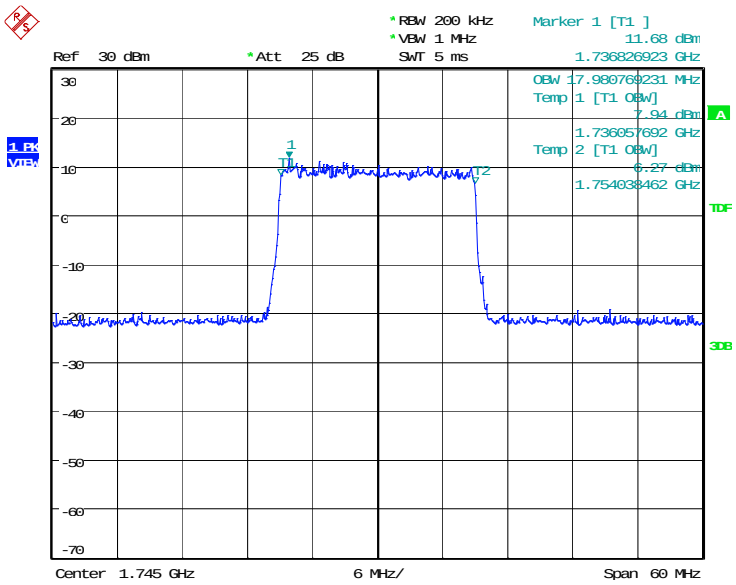
Date: 14.JAN.2020 02:36:49

LTE band 66, 20MHz Bandwidth, 16QAM (99% BW)



Date: 14.JAN.2020 02:38:15

LTE band 66, 20MHz Bandwidth, 64QAM (99% BW)

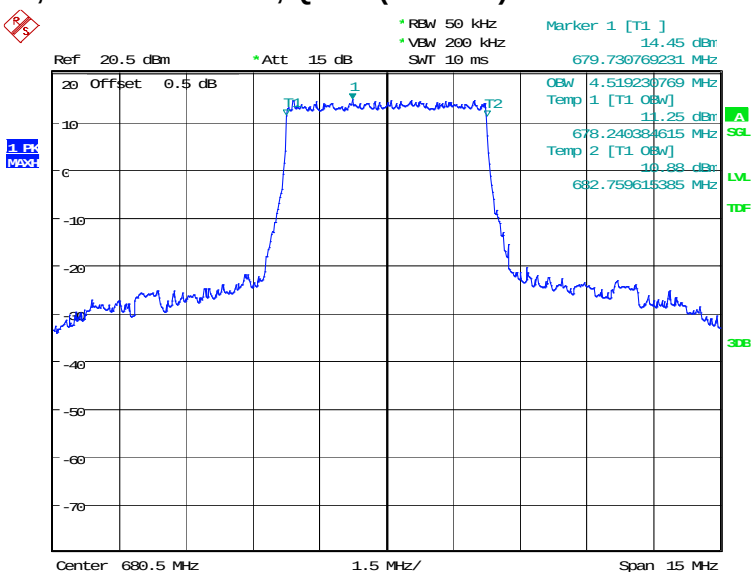


Date: 18.JAN.2020 17:25:20

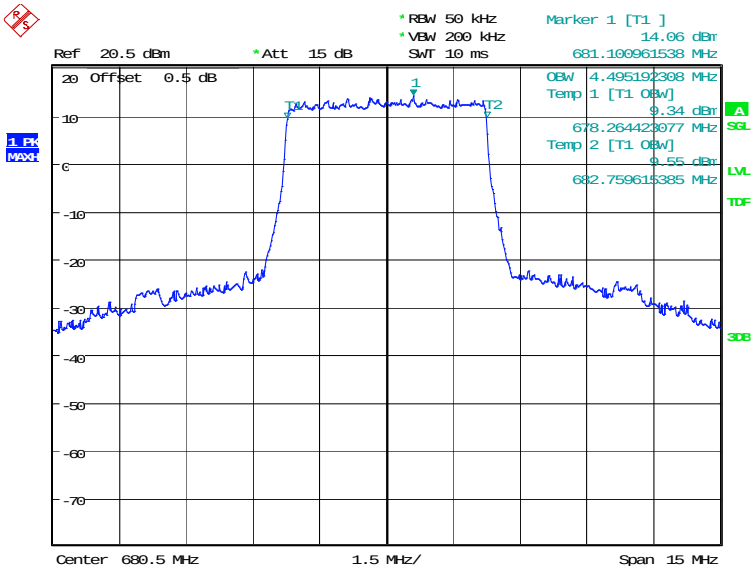
LTE band 71, 5MHz (99%)

Frequency (MHz)	Occupied Bandwidth (99%) (kHz)		
680.5	QPSK	16QAM	64QAM
	4519.23	4495.19	4519.23

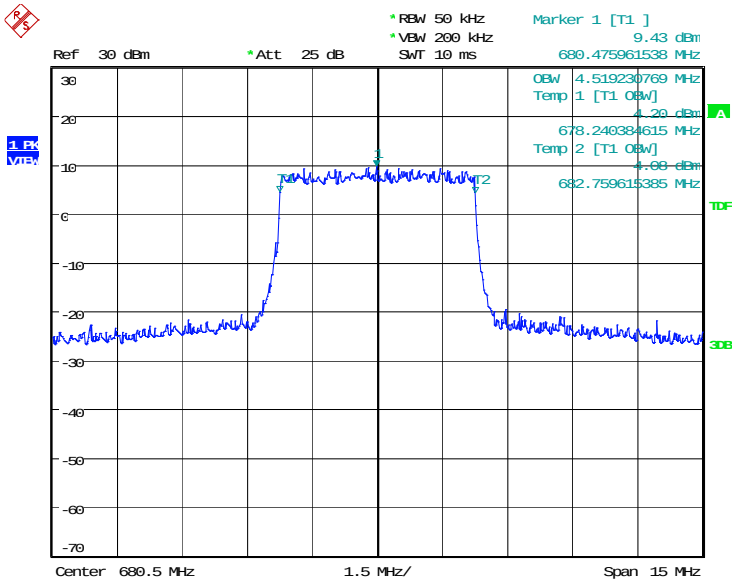
LTE band 71, 5MHz Bandwidth, QPSK (99% BW)



LTE band 71, 5MHz Bandwidth, 16QAM (99% BW)



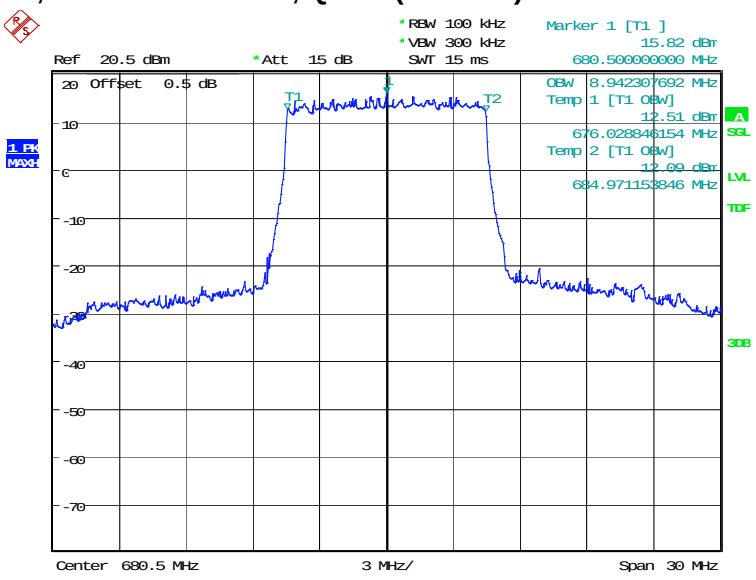
LTE band 71, 5MHz Bandwidth,64QAM (99% BW)



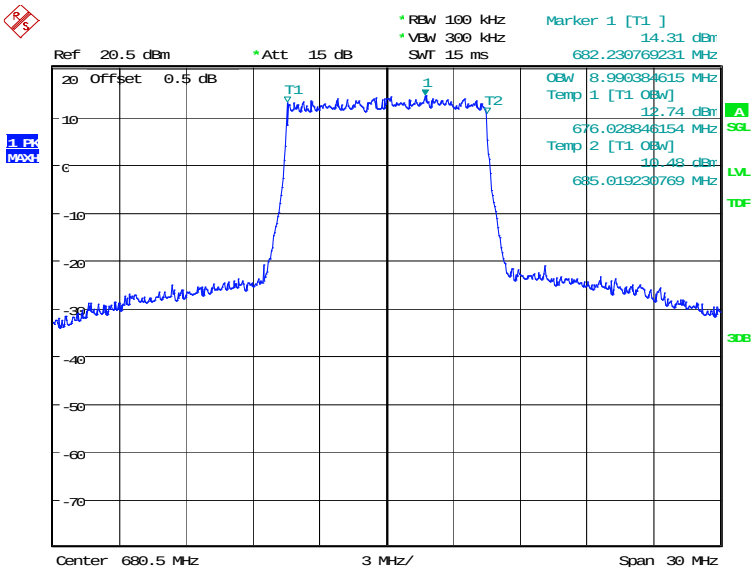
LTE band 71, 10MHz (99%)

Frequency (MHz)	Occupied Bandwidth (99%) (kHz)		
680.5	QPSK	16QAM	64QAM
	8942.31	8990.38	9038.46

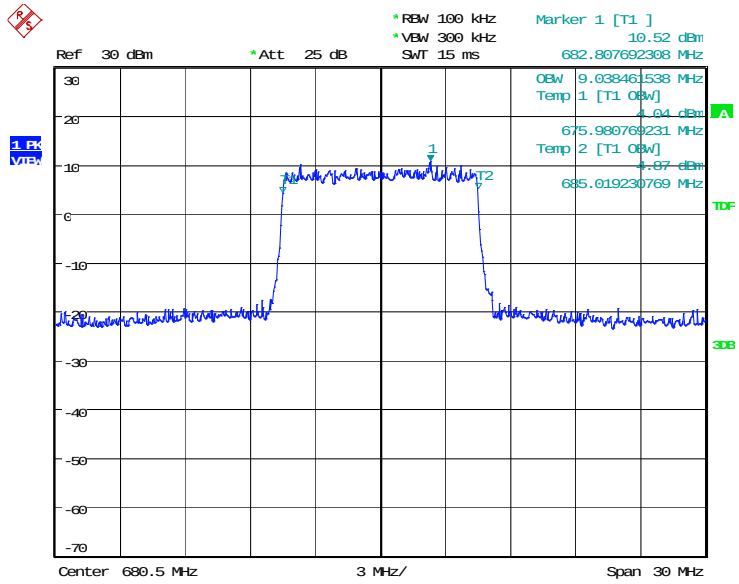
LTE band 71, 10MHz Bandwidth, QPSK (99% BW)



LTE band 71, 10MHz Bandwidth, 16QAM (99% BW)



LTE band 71, 10MHz Bandwidth, 64QAM (99% BW)

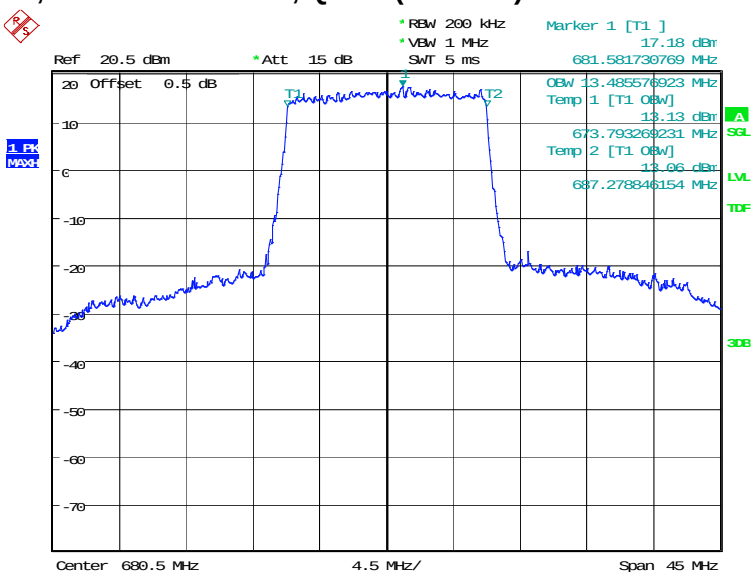


Date: 18.JAN.2020 17:30:08

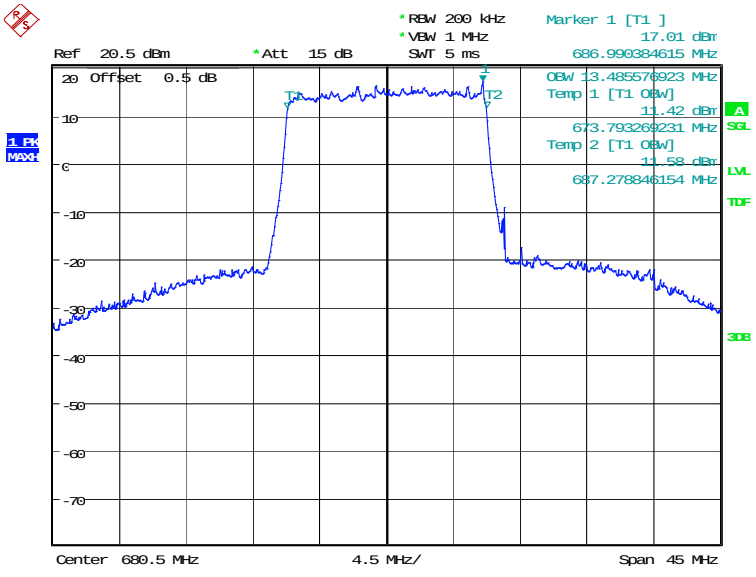
LTE band 71, 15MHz (99%)

Frequency (MHz)	Occupied Bandwidth (99%) (kHz)		
680.5	QPSK	16QAM	64QAM
	13485.58	13485.58	13485.58

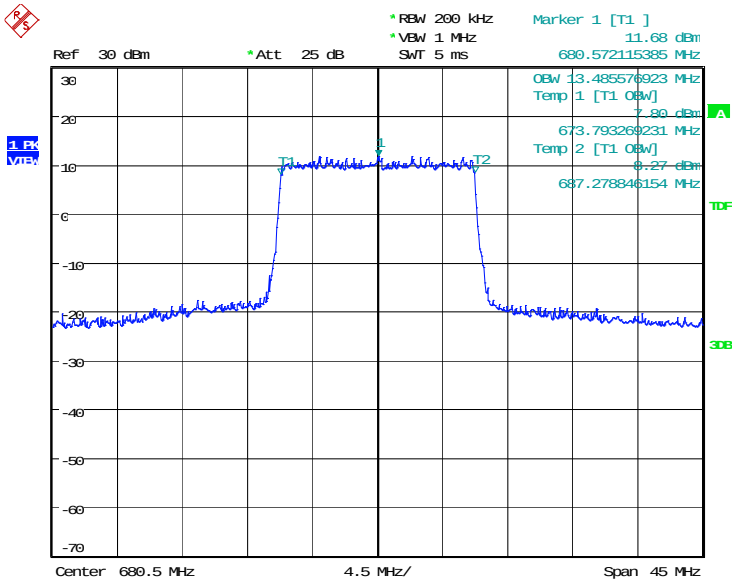
LTE band 71, 15MHz Bandwidth, QPSK (99% BW)



LTE band 71, 15MHz Bandwidth, 16QAM (99% BW)



LTE band 71, 15MHz Bandwidth, 64QAM (99% BW)

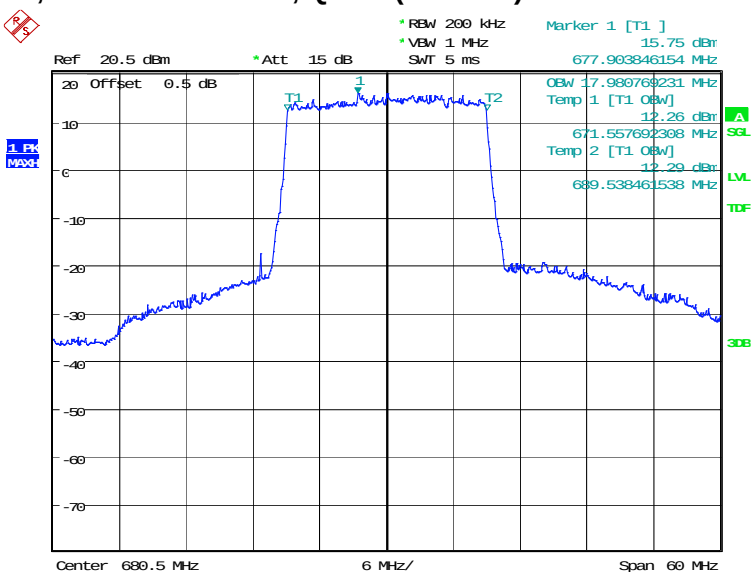


Date: 18.JAN.2020 17:31:22

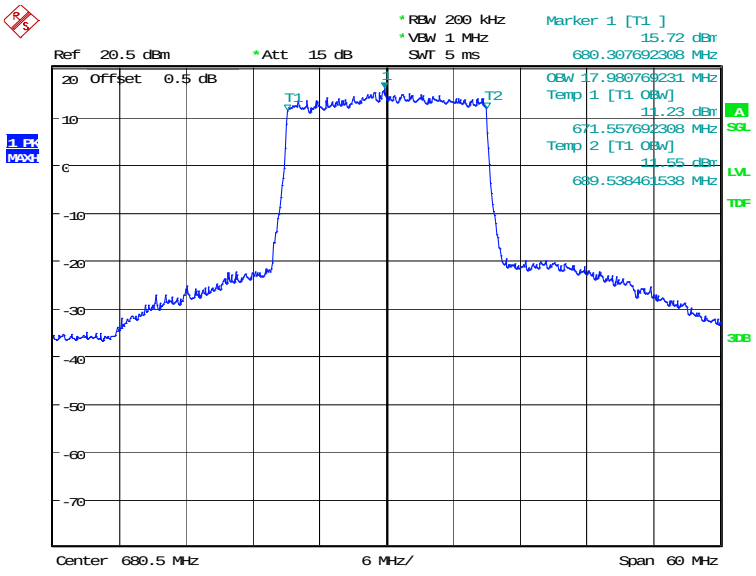
LTE band 71, 20MHz (99%)

Frequency (MHz)	Occupied Bandwidth (99%) (kHz)		
680.5	QPSK	16QAM	64QAM
	17980.77	17980.77	17980.77

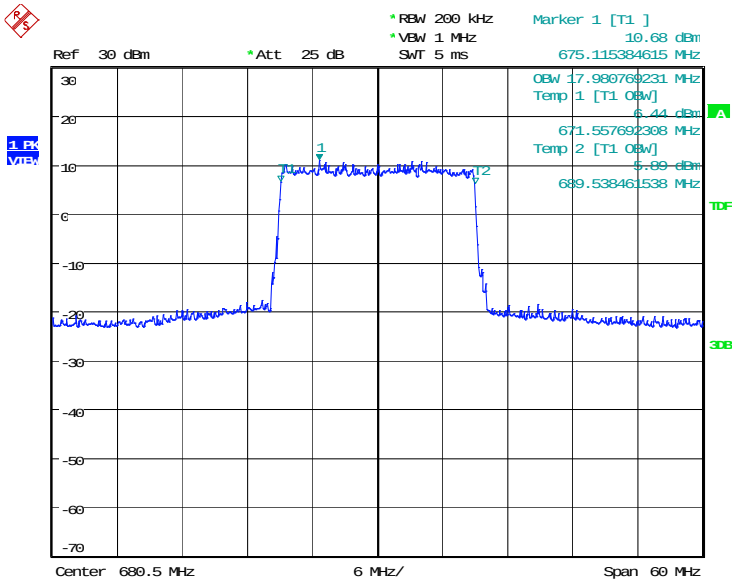
LTE band 71, 20MHz Bandwidth, QPSK (99% BW)



LTE band 71, 20MHz Bandwidth, 16QAM (99% BW)



LTE band 71, 20MHz Bandwidth, 64QAM (99% BW)



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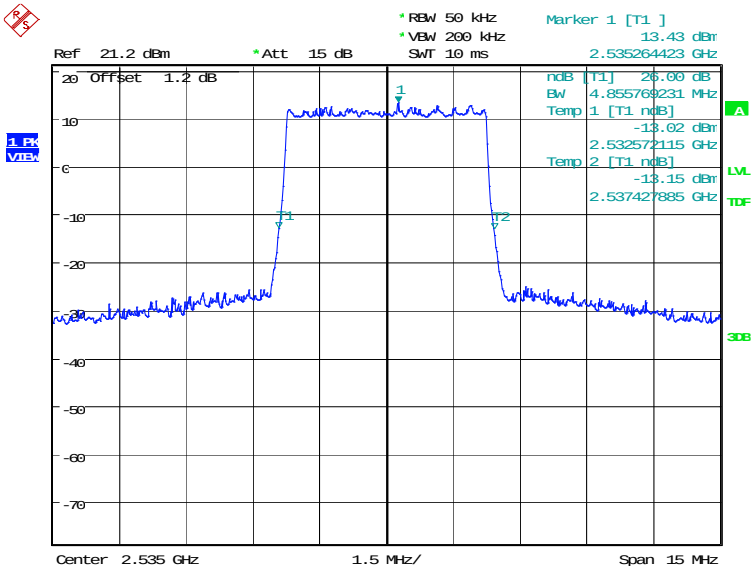
A.5 EMISSION BANDWIDTH

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.
The measurement method is from ANSI C63.26:
a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “−X dB” requirement, i.e., if the requirement calls for measuring the −26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

LTE band 7, 5MHz (-26dBc)

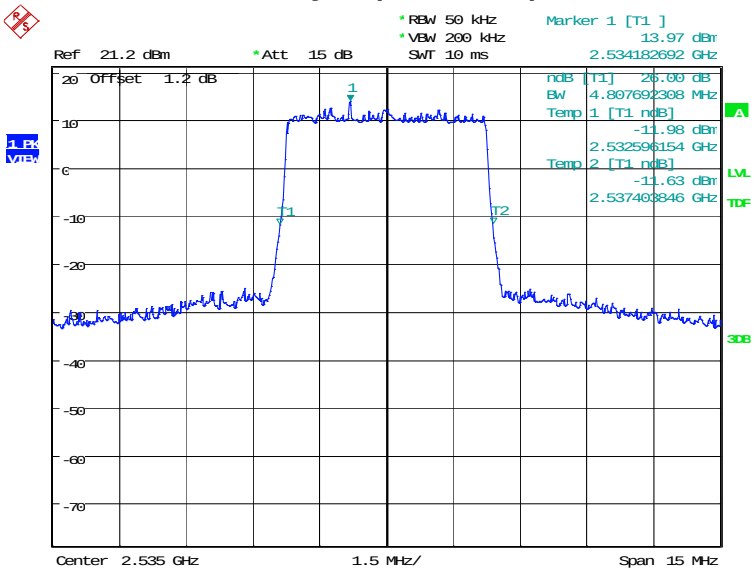
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
2535.0	QPSK	16QAM	64QAM
	4855.77	4807.69	4831.73

LTE band 7, 5MHz Bandwidth, QPSK (-26dBc BW)



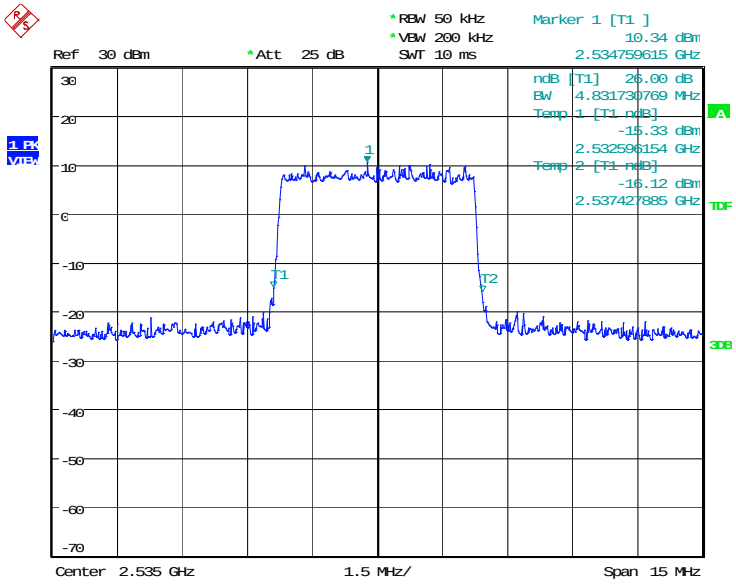
Date: 14.JAN.2020 04:00:01

LTE band 7, 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 14.JAN.2020 04:01:27

LTE band 7, 5MHz Bandwidth,64QAM (-26dBc BW)

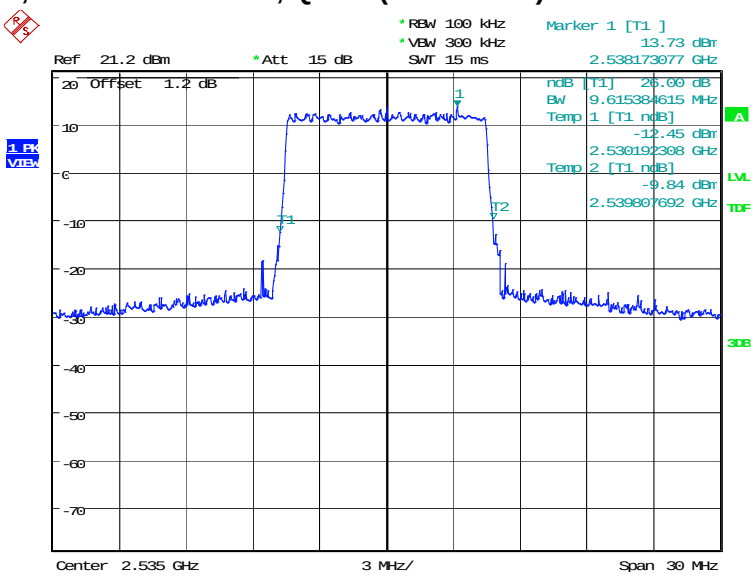


Date: 18.JAN.2020 15:49:06

LTE band 7, 10MHz (-26dBc)

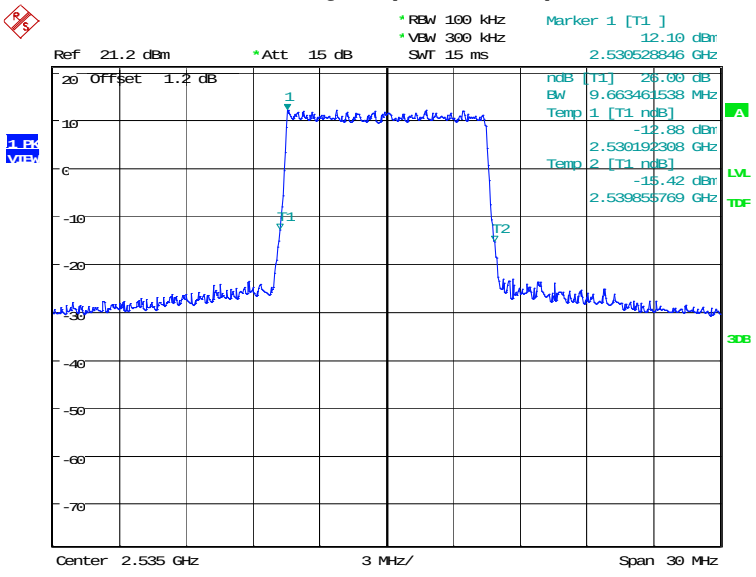
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
2535.0	QPSK	16QAM	64QAM
	9615.38	9663.46	9615.38

LTE band 7, 10MHz Bandwidth, QPSK (-26dBc BW)



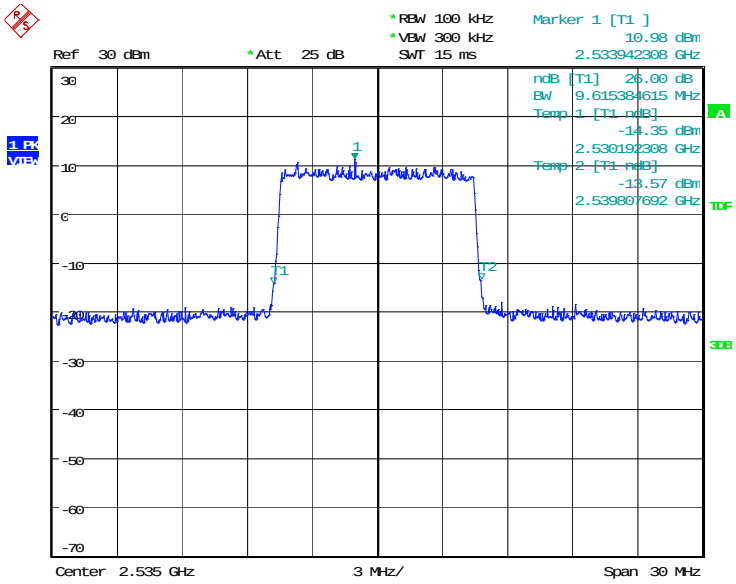
Date: 14.JAN.2020 04:03:59

LTE band 7, 10MHz Bandwidth,16QAM (-26dBc BW)



Date: 14.JAN.2020 04:05:25

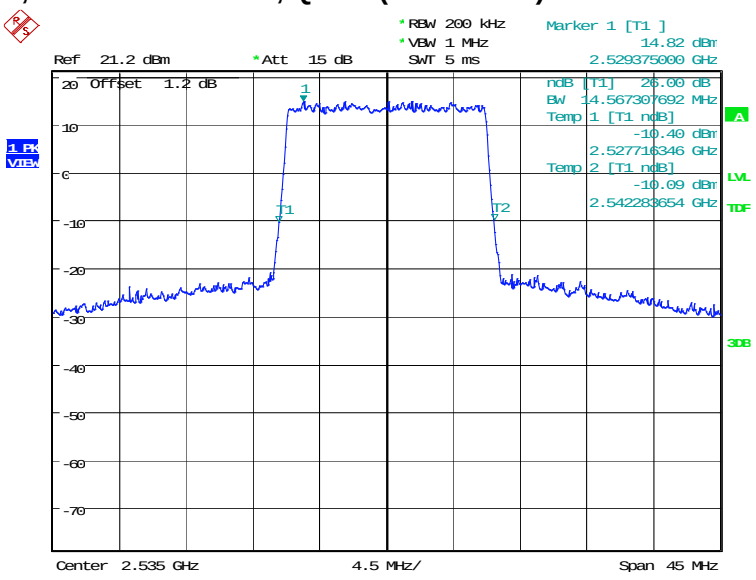
LTE band 7, 10MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 7, 15MHz (-26dBc)

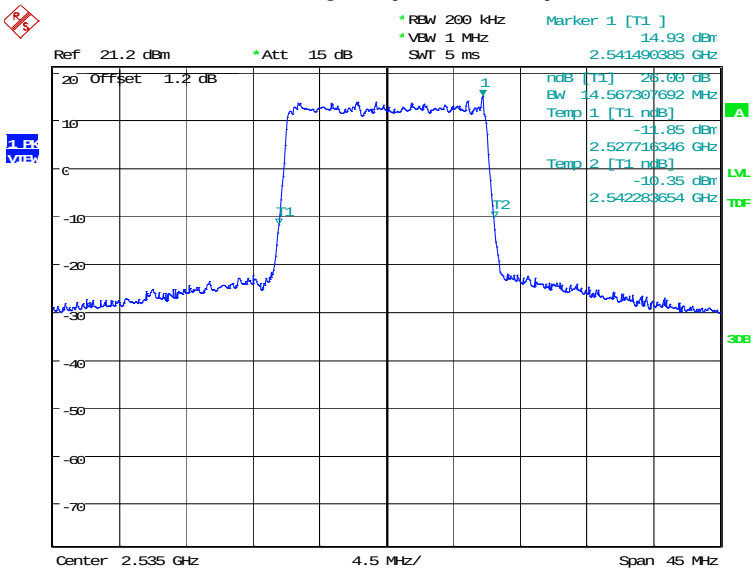
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
2535.0	QPSK	16QAM	64QAM
	14567.31	14567.31	14639.42

LTE band 7, 15MHz Bandwidth, QPSK (-26dBc BW)



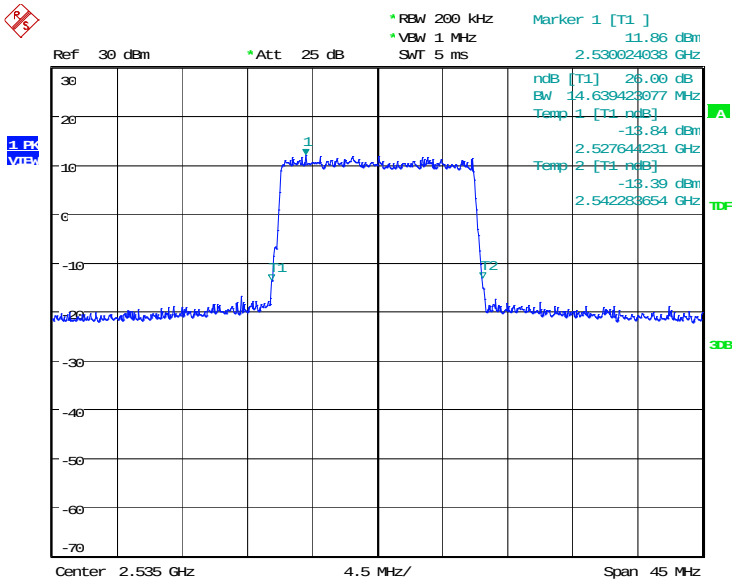
Date: 14.JAN.2020 04:08:08

LTE band 7, 15MHz Bandwidth,16QAM (-26dBc BW)



Date: 14.JAN.2020 04:09:34

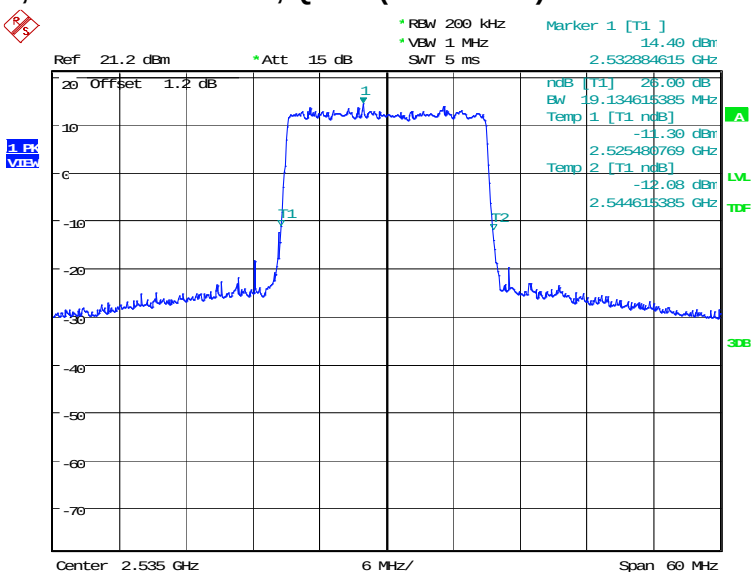
LTE band 7, 15MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 7, 20MHz (-26dBc)

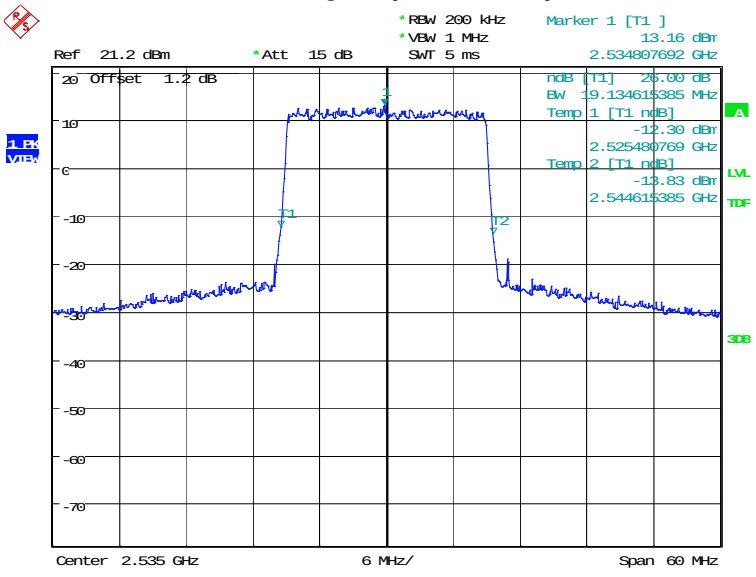
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
2535.0	QPSK	16QAM	64QAM
	19134.62	19134.62	19326.92

LTE band 7, 20MHz Bandwidth, QPSK (-26dBc BW)



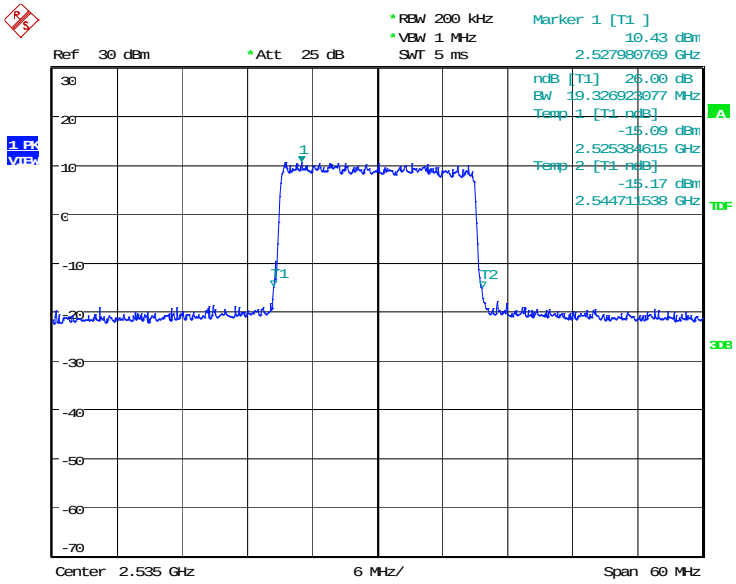
Date: 14.JAN.2020 04:12:24

LTE band 7, 20MHz Bandwidth,16QAM (-26dBc BW)



Date: 14.JAN.2020 04:13:49

LTE band 7, 20MHz Bandwidth, 64QAM (-26dBc BW)

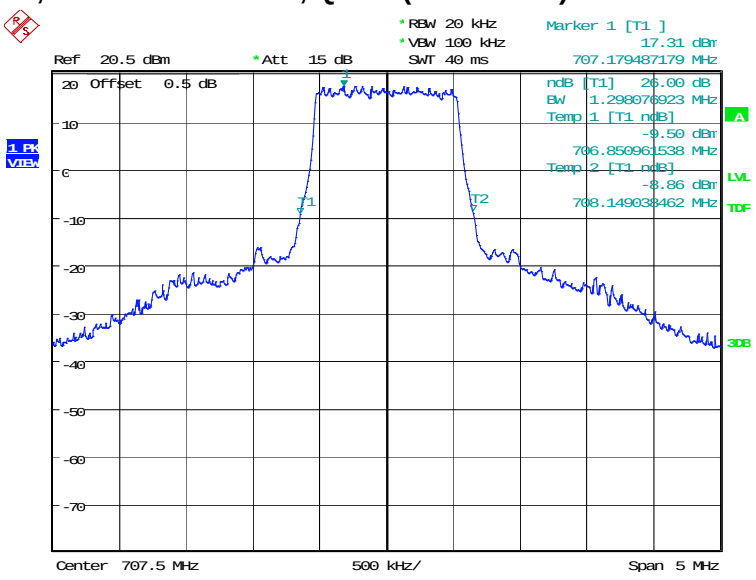


Date: 18.JAN.2020 15:52:40

LTE band 12, 1.4MHz (-26dBc)

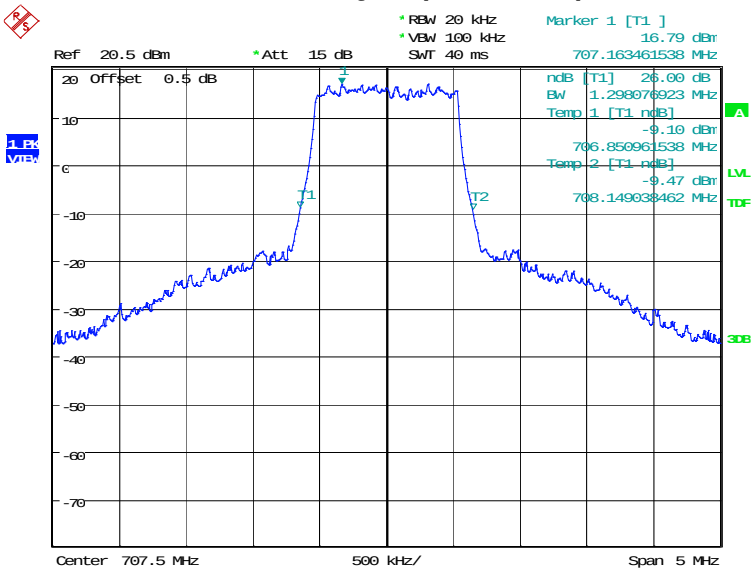
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
707.5	QPSK	16QAM	64QAM
	1298.08	1298.08	1290.06

LTE band 12, 1.4MHz Bandwidth, QPSK (-26dBc BW)



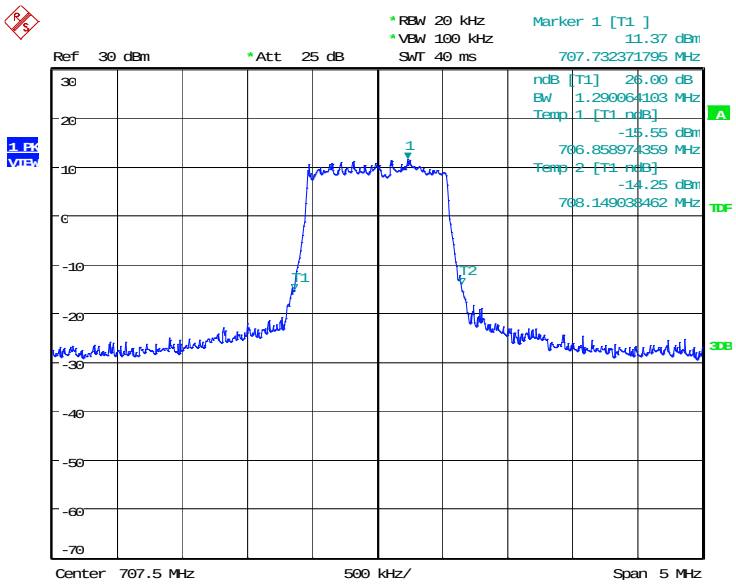
Date: 14.JAN.2020 04:16:05

LTE band 12, 1.4MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:17:30

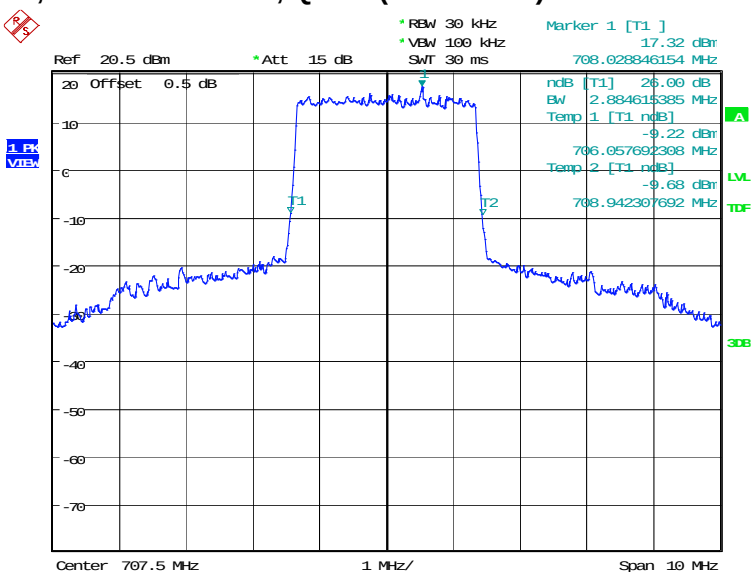
LTE band 12, 1.4MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 12, 3MHz (-26dBc)

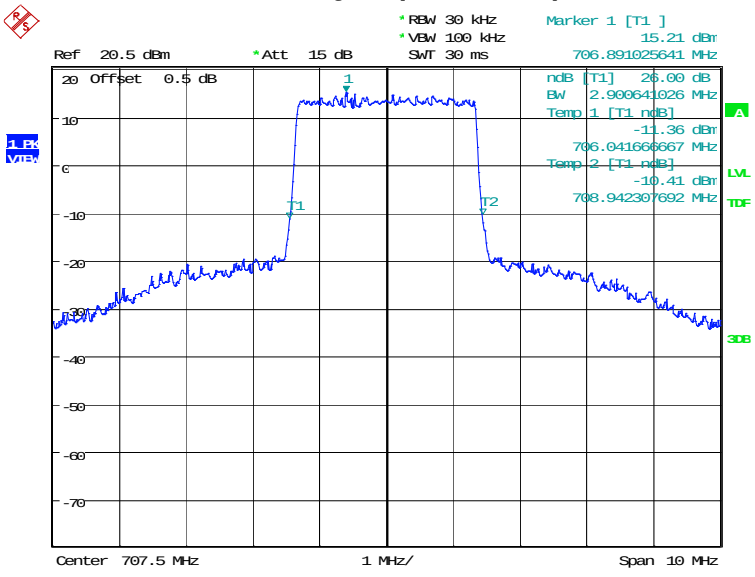
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
707.5	QPSK	16QAM	64QAM
	2884.62	2900.64	2884.62

LTE band 12, 3MHz Bandwidth, QPSK (-26dBc BW)



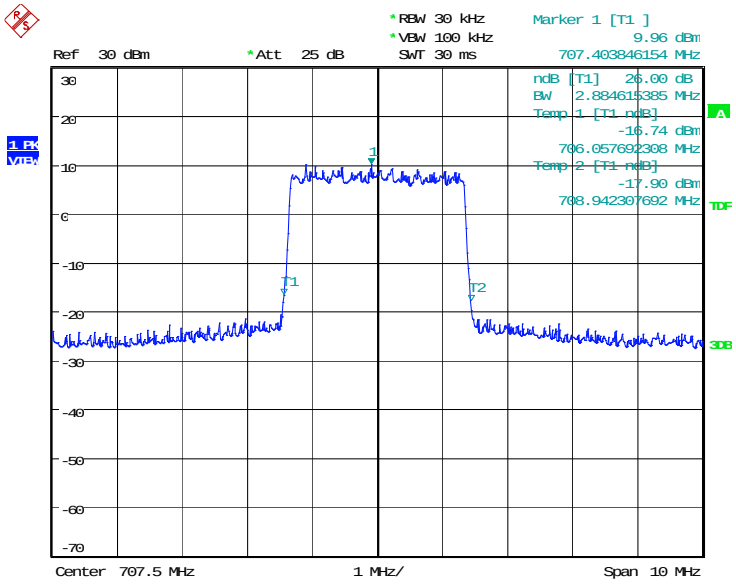
Date: 14.JAN.2020 04:19:52

LTE band 12, 3MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:21:17

LTE band 12, 3MHz Bandwidth, 64QAM (-26dBc BW)

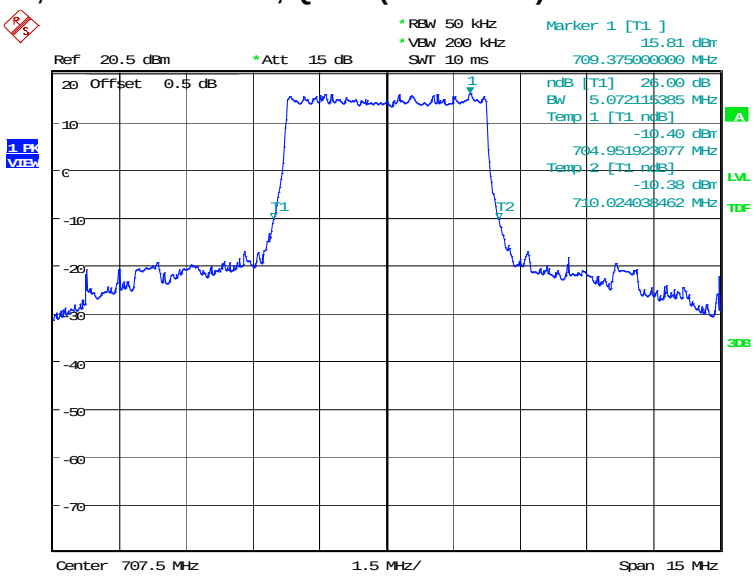


Date: 18.JAN.2020 15:59:15

LTE band 12, 5MHz (-26dBc)

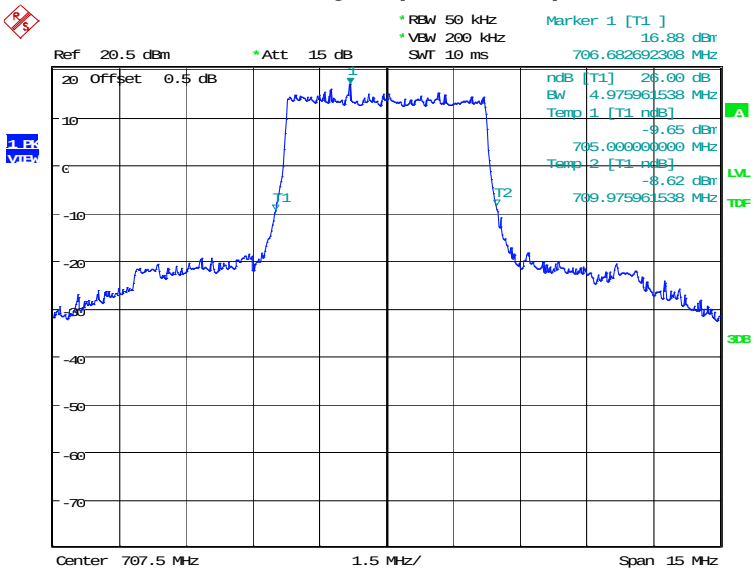
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
707.5	QPSK	16QAM	64QAM
	5072.12	4975.96	5024.04

LTE band 12, 5MHz Bandwidth, QPSK (-26dBc BW)



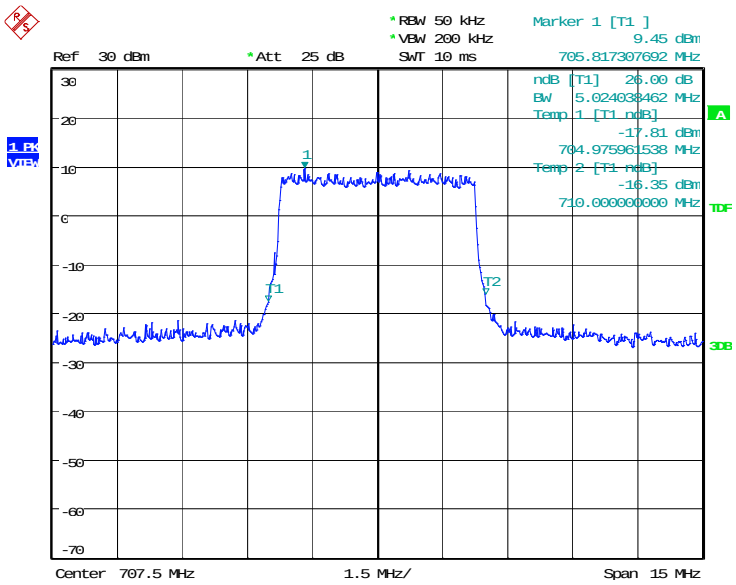
Date: 14.JAN.2020 04:23:39

LTE band 12, 5MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:25:04

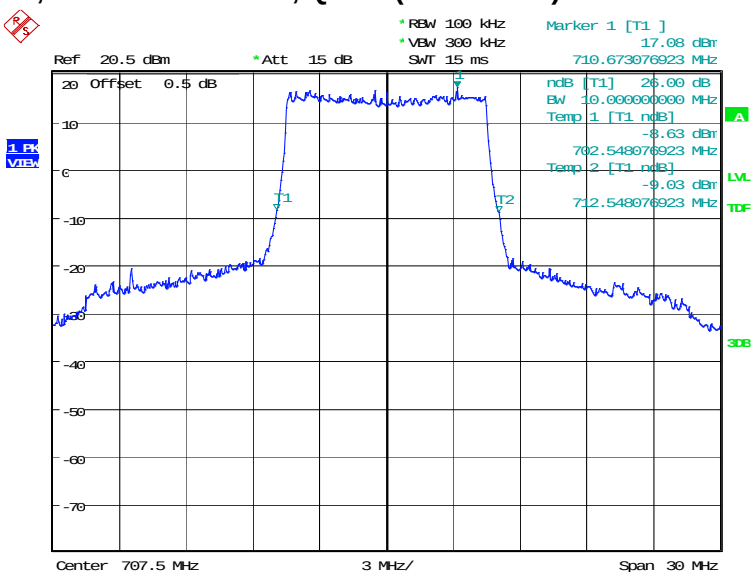
LTE band 12, 5MHz Bandwidth,64QAM (-26dBc BW)



LTE band 12, 10MHz (-26dBc)

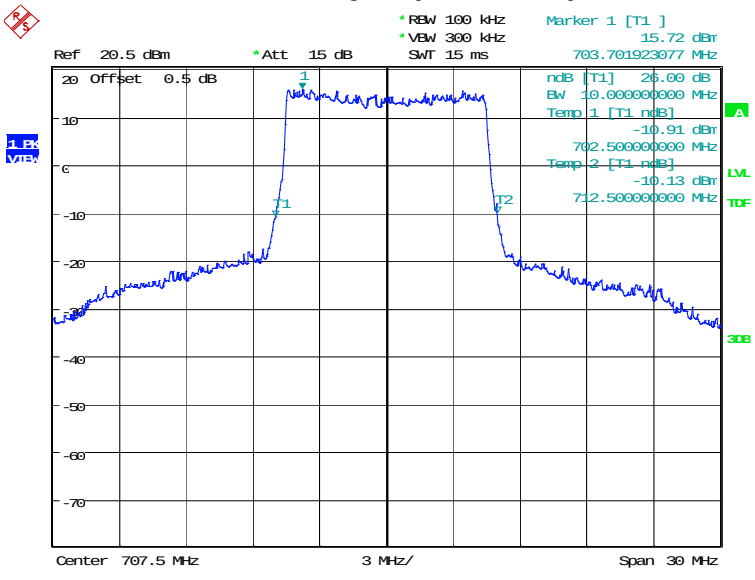
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
707.5	QPSK	16QAM	64QAM
	10000.00	10000.00	9855.77

LTE band 12, 10MHz Bandwidth, QPSK (-26dBc BW)



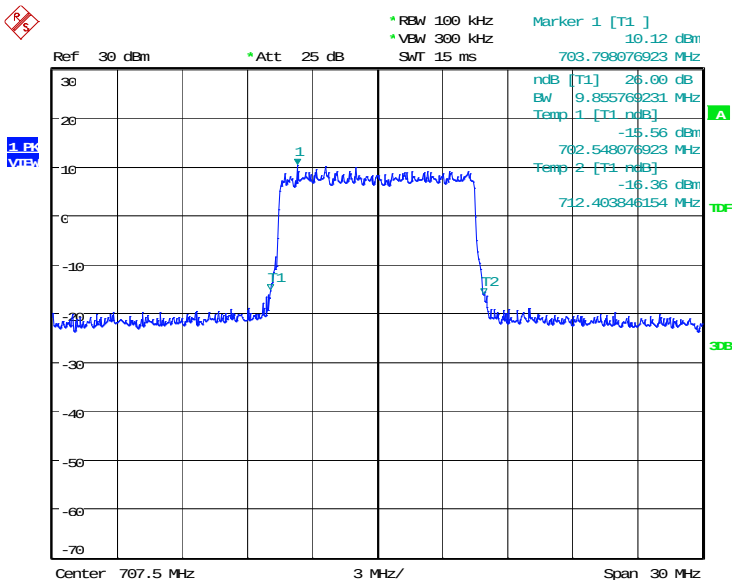
Date: 14.JAN.2020 04:27:26

LTE band 12, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:28:52

LTE band 12, 10MHz Bandwidth, 64QAM (-26dBc BW)

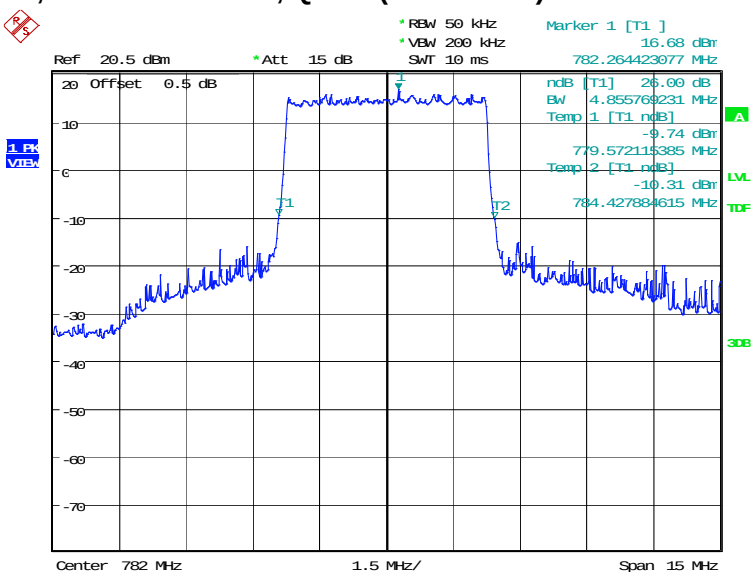


Date: 18.JAN.2020 16:01:42

LTE band 13, 5MHz (-26dBc)

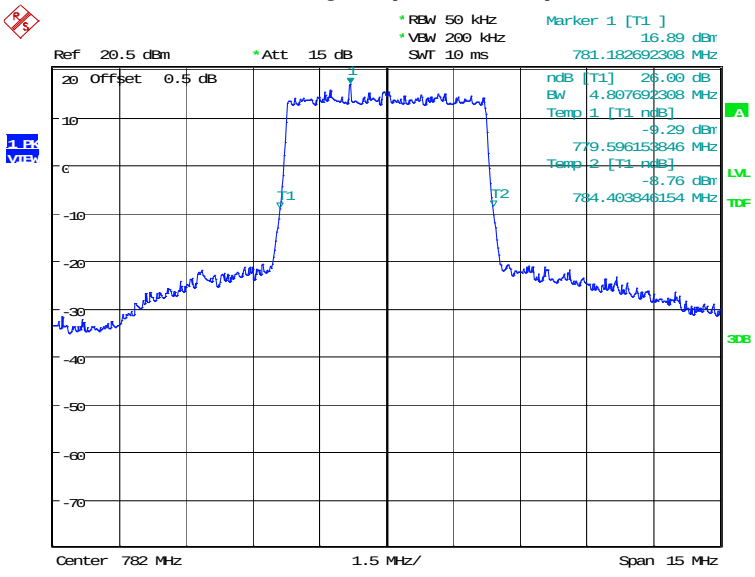
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
782.0	QPSK	16QAM	64QAM
	4855.77	4807.69	4807.69

LTE band 13, 5MHz Bandwidth, QPSK (-26dBc BW)



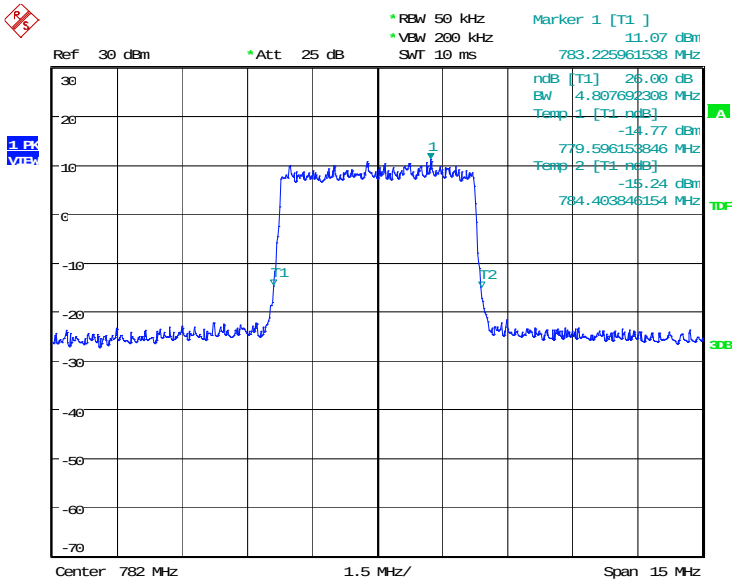
Date: 14.JAN.2020 04:31:12

LTE band 13, 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 14.JAN.2020 04:32:38

LTE band 13, 5MHz Bandwidth,64QAM (-26dBc BW)

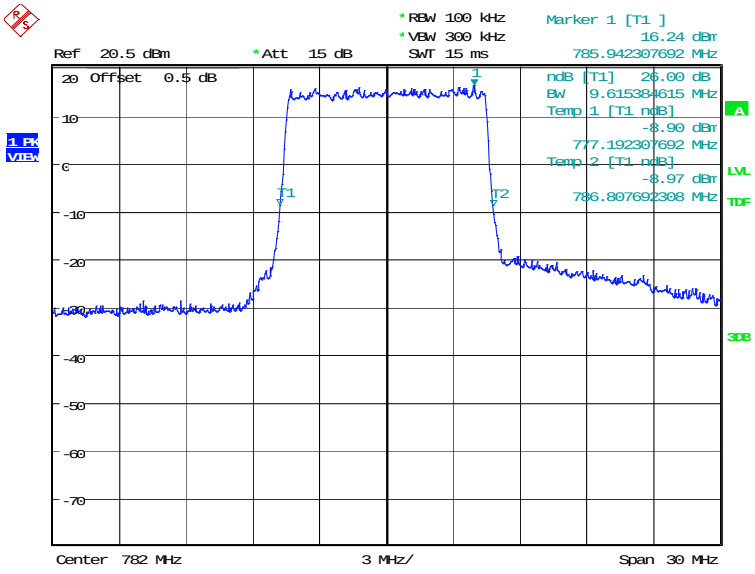


Date: 18.JAN.2020 16:05:24

LTE band 13, 10MHz (-26dBc)

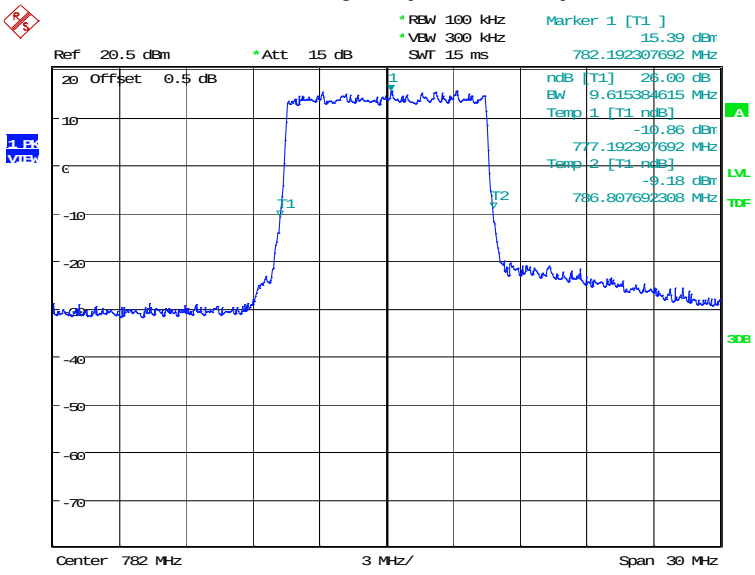
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
782.0	QPSK	16QAM	64QAM
	9615.38	9615.38	9567.31

LTE band 13, 10MHz Bandwidth, QPSK (-26dBc BW)



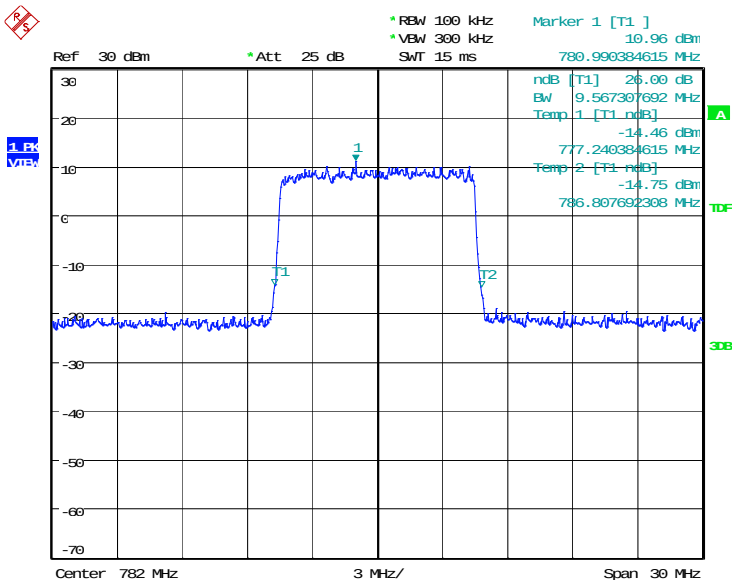
Date: 14.JAN.2020 04:34:05

LTE band 13, 10MHz Bandwidth,16QAM (-26dBc BW)



Date: 14.JAN.2020 04:35:31

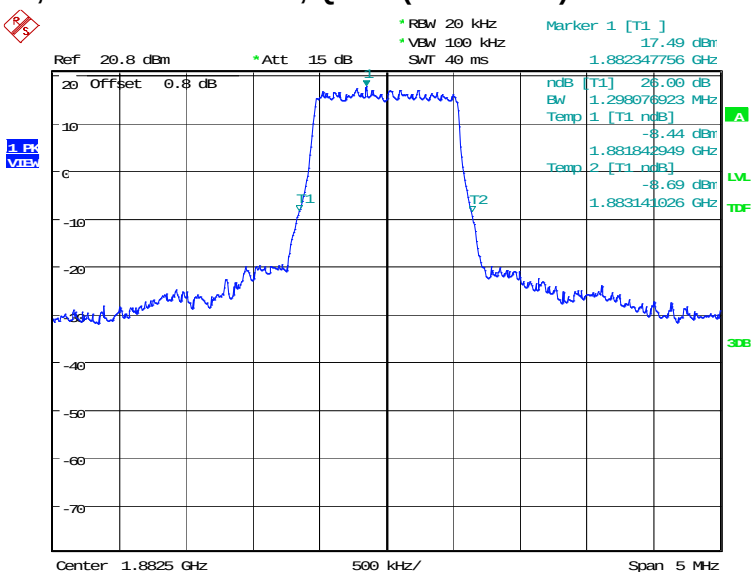
LTE band 13, 10MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 25, 1.4MHz (-26dBc)

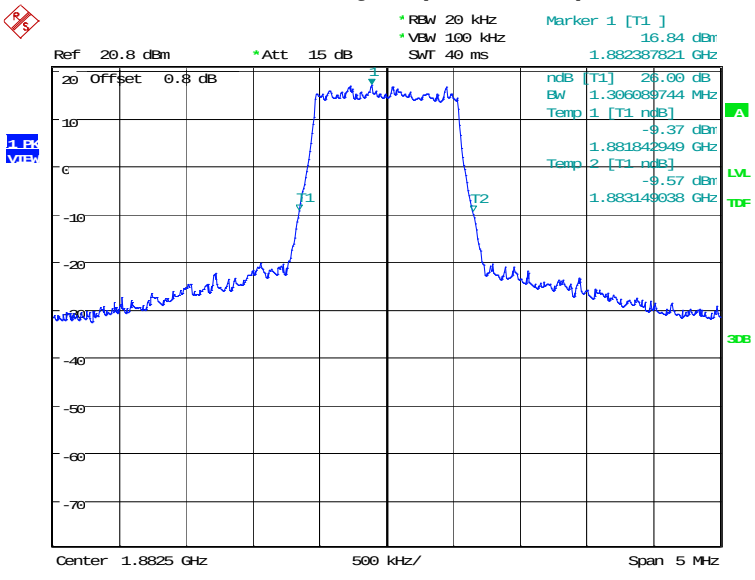
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1882.5	QPSK	16QAM	64QAM
	1298.08	1306.09	1290.06

LTE band 25, 1.4MHz Bandwidth, QPSK (-26dBc BW)



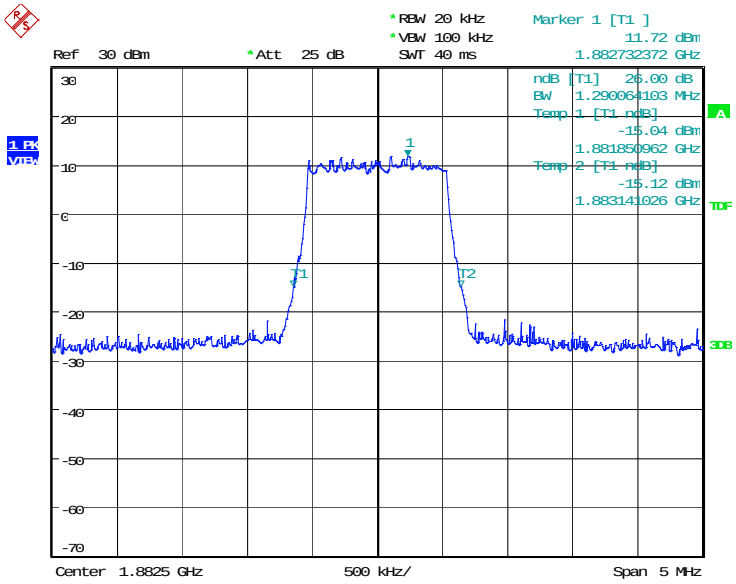
Date: 14.JAN.2020 04:37:58

LTE band 25, 1.4MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:39:24

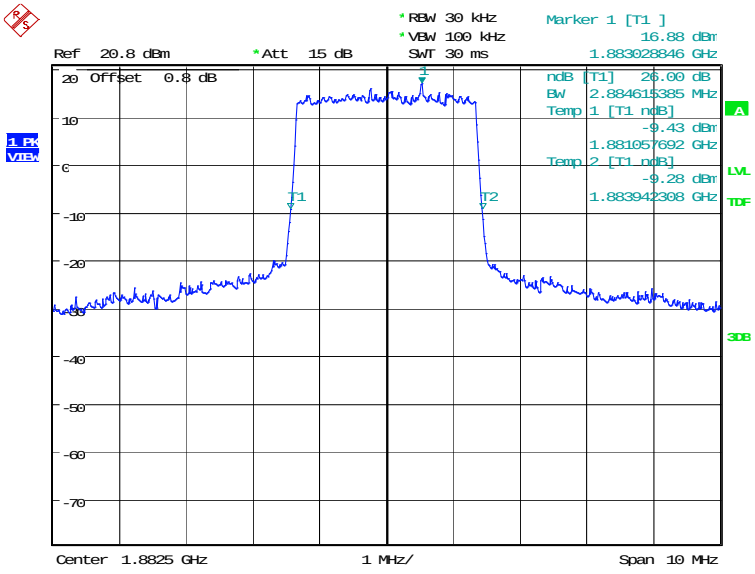
LTE band 25, 1.4MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 25, 3MHz (-26dBc)

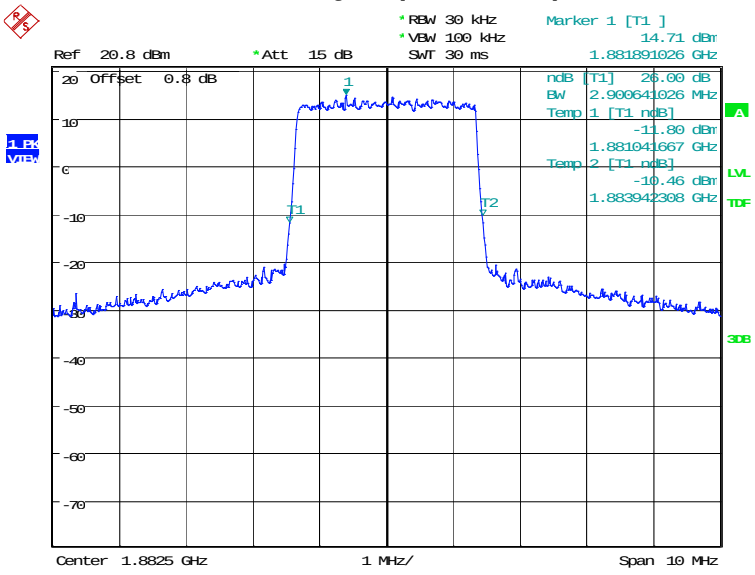
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1882.5	QPSK	16QAM	64QAM
	2884.62	2900.64	2868.59

LTE band 25, 3MHz Bandwidth, QPSK (-26dBc BW)



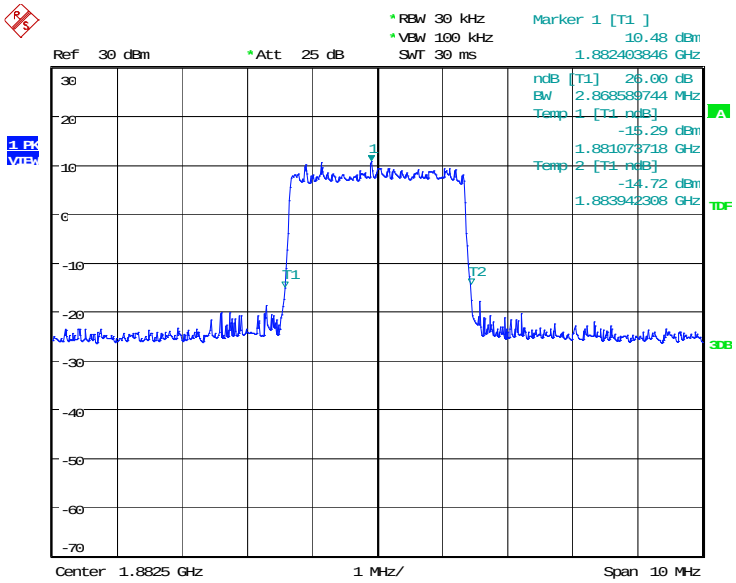
Date: 14.JAN.2020 04:41:46

LTE band 25, 3MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:43:11

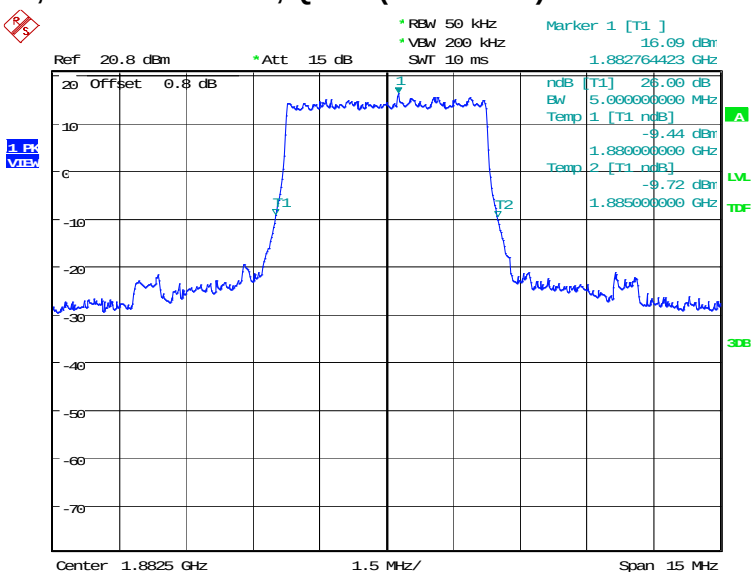
LTE band 25, 3MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 25, 5MHz (-26dBc)

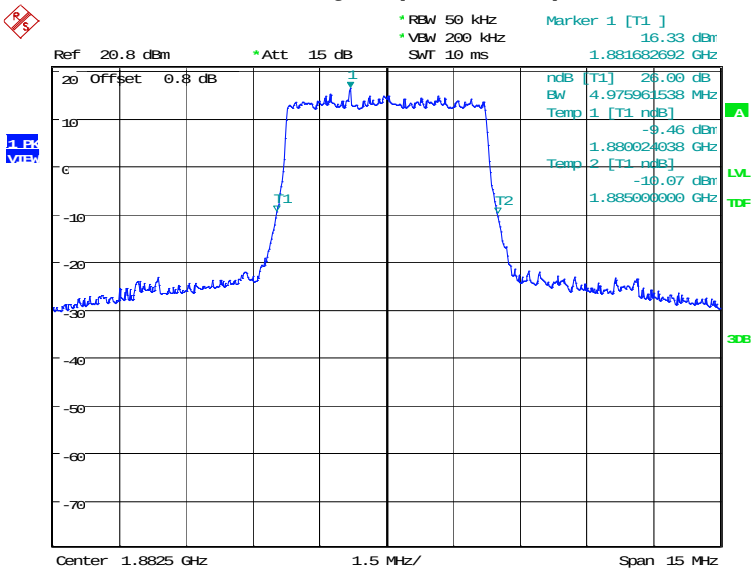
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1882.5	QPSK	16QAM	64QAM
	5000.00	4975.96	5072.12

LTE band 25, 5MHz Bandwidth, QPSK (-26dBc BW)



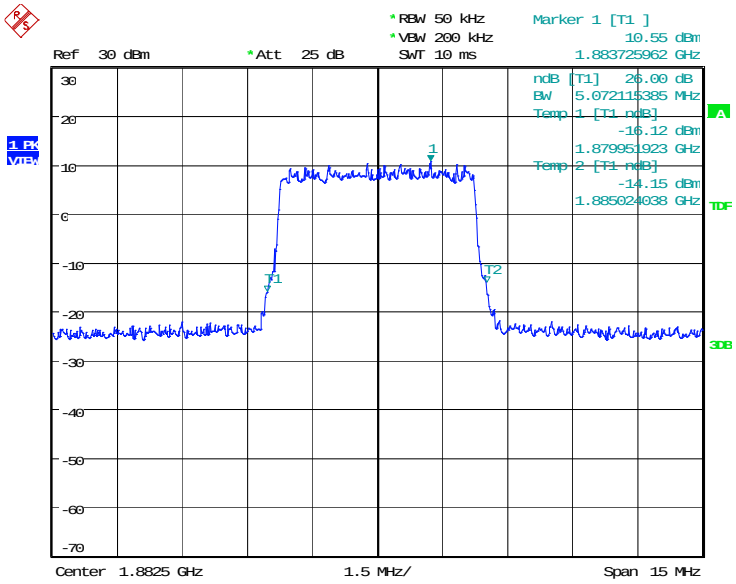
Date: 14.JAN.2020 04:45:32

LTE band 25, 5MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:46:58

LTE band 25, 5MHz Bandwidth,64QAM (-26dBc BW)

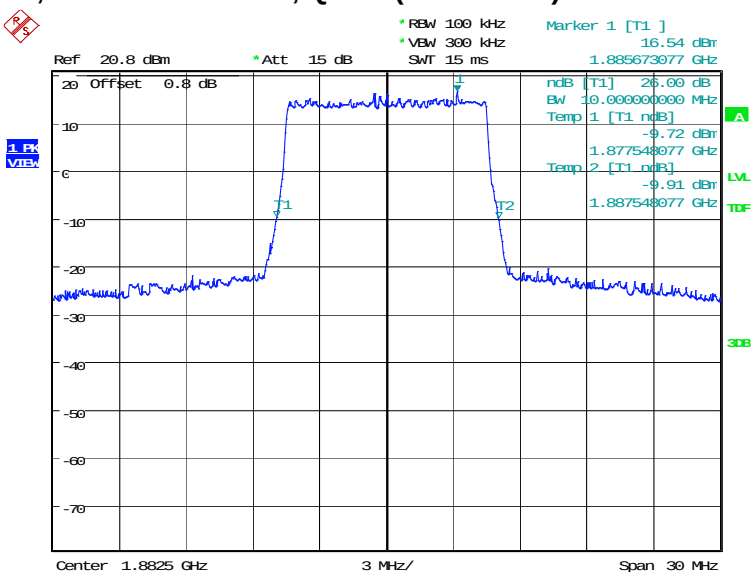


Date: 18.JAN.2020 16:12:13

LTE band 25, 10MHz (-26dBc)

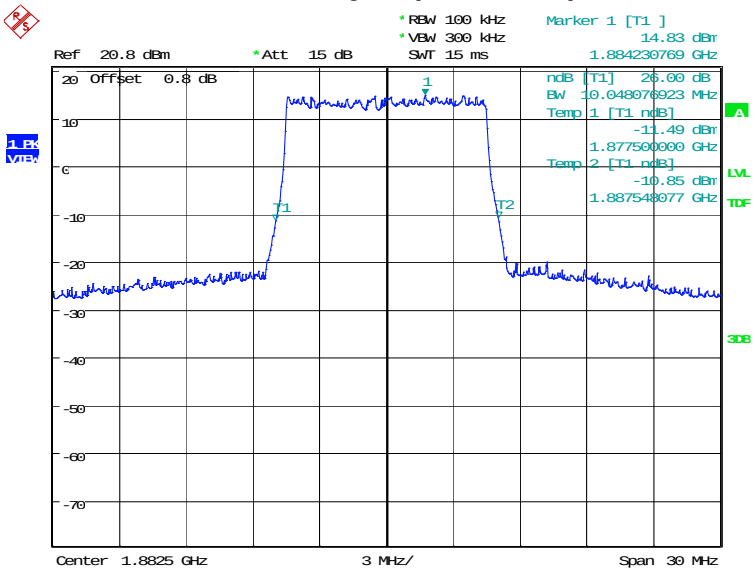
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1882.5	QPSK	16QAM	64QAM
	10000.00	10048.08	9951.92

LTE band 25, 10MHz Bandwidth, QPSK (-26dBc BW)



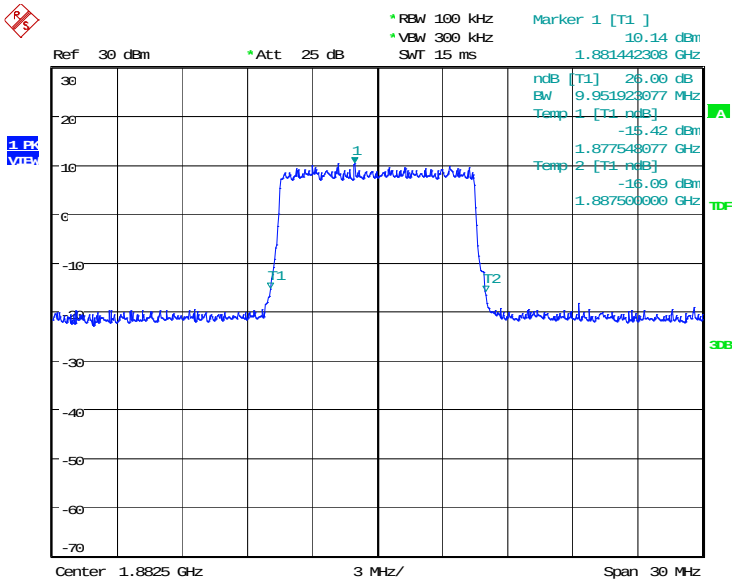
Date: 14.JAN.2020 04:49:22

LTE band 25, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:50:47

LTE band 25, 10MHz Bandwidth, 64QAM (-26dBc BW)

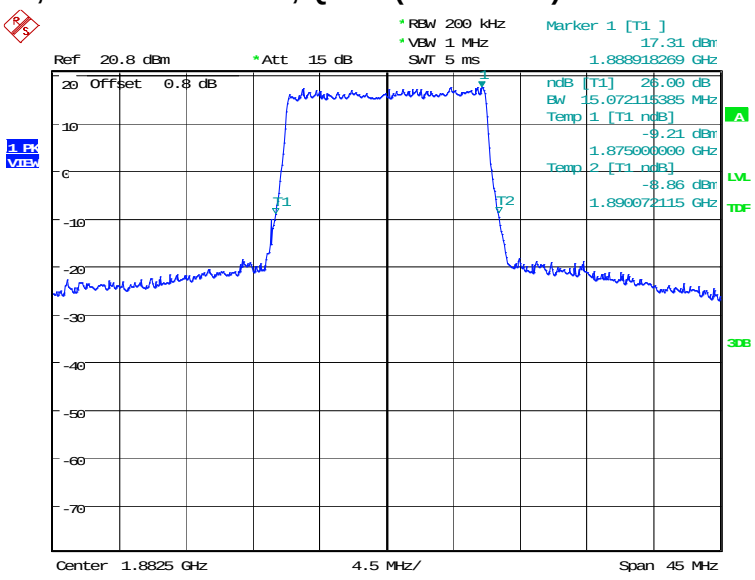


Date: 18.JAN.2020 16:13:23

LTE band 25, 15MHz (-26dBc)

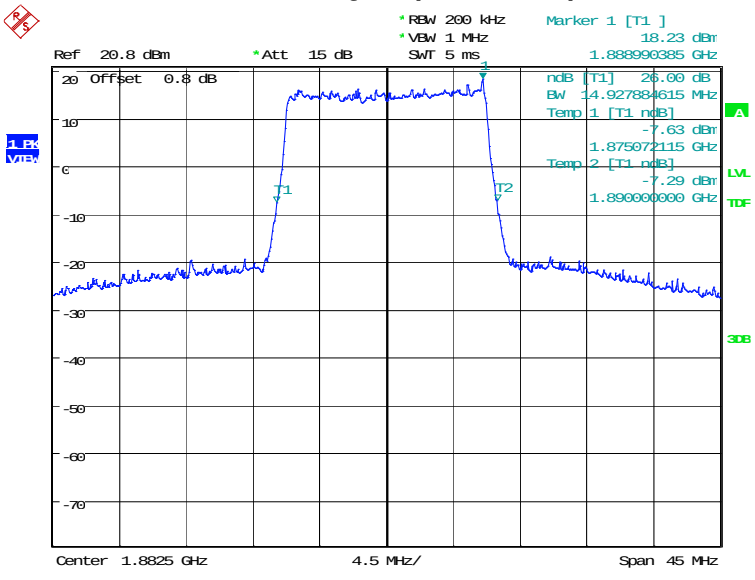
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1882.5	QPSK	16QAM	64QAM
	15072.12	14927.88	15072.12

LTE band 25, 15MHz Bandwidth, QPSK (-26dBc BW)



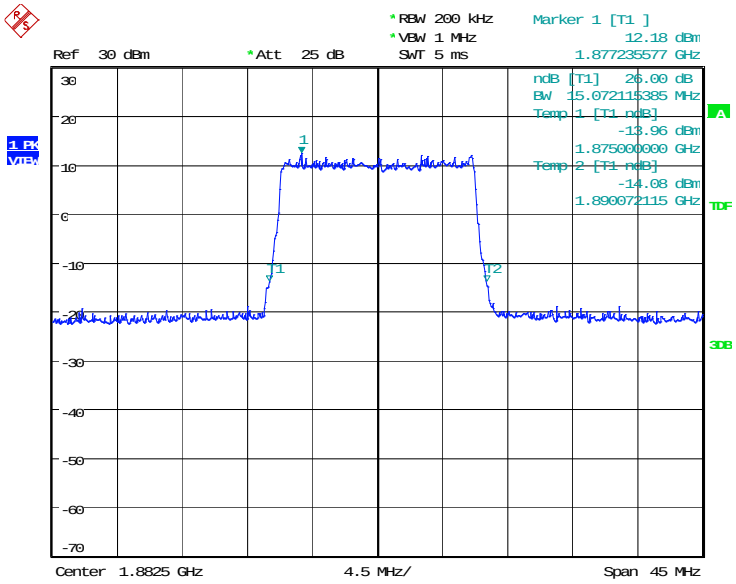
Date: 14.JAN.2020 04:53:13

LTE band 25, 15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:54:39

LTE band 25, 15MHz Bandwidth, 64QAM (-26dBc BW)

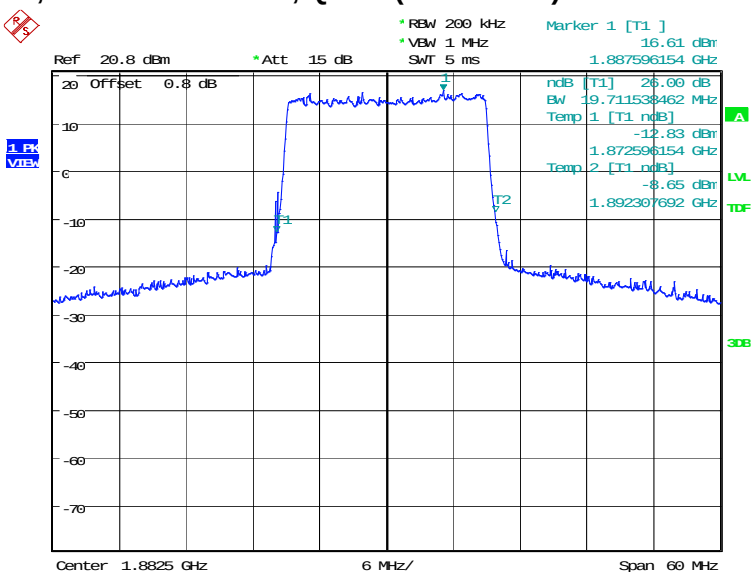


Date: 18.JAN.2020 16:17:30

LTE band 25, 20MHz (-26dBc)

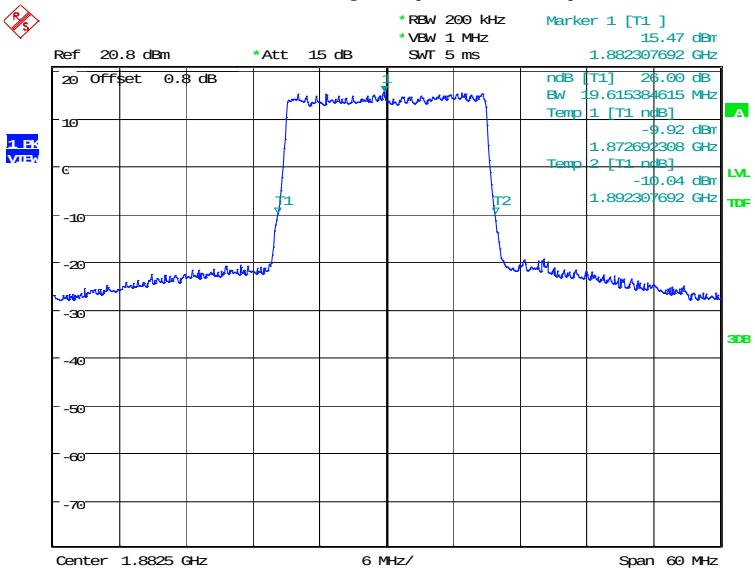
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1882.5	QPSK	16QAM	64QAM
	19711.54	19615.38	19807.69

LTE band 25, 20MHz Bandwidth, QPSK (-26dBc BW)



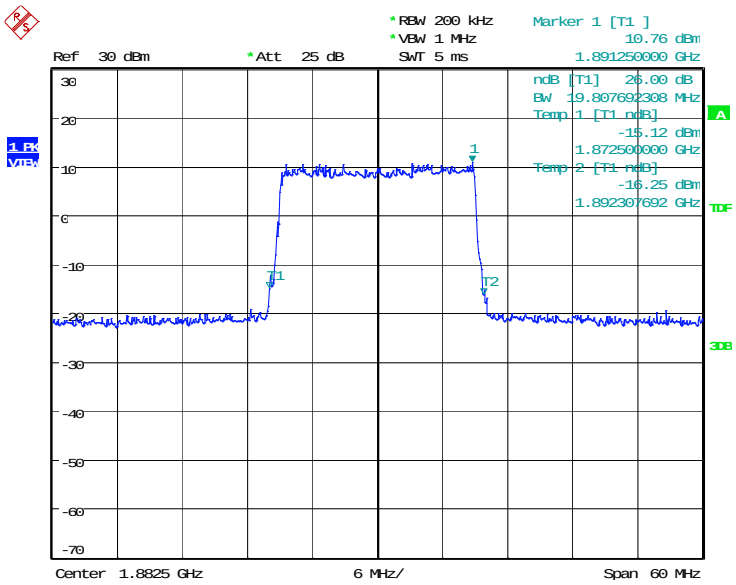
Date: 14.JAN.2020 04:57:07

LTE band 25, 20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 04:58:33

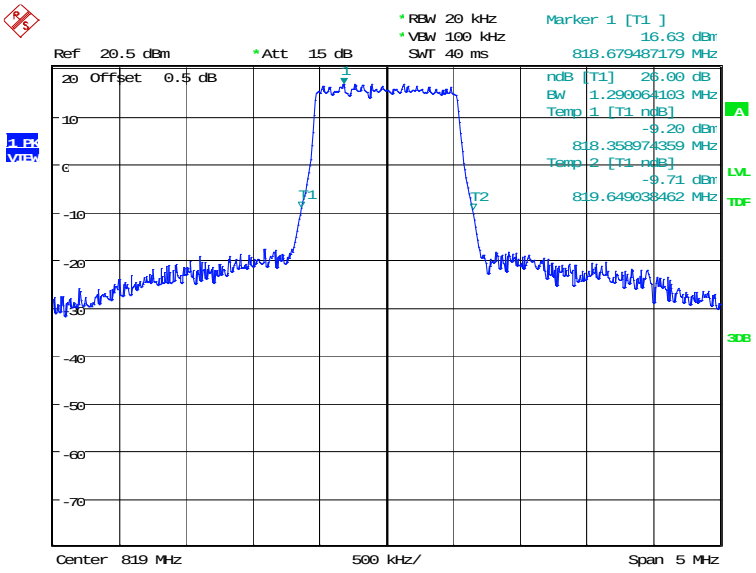
LTE band 25, 20MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 26(814MHz~824MHz), 1.4MHz (-26dBc)

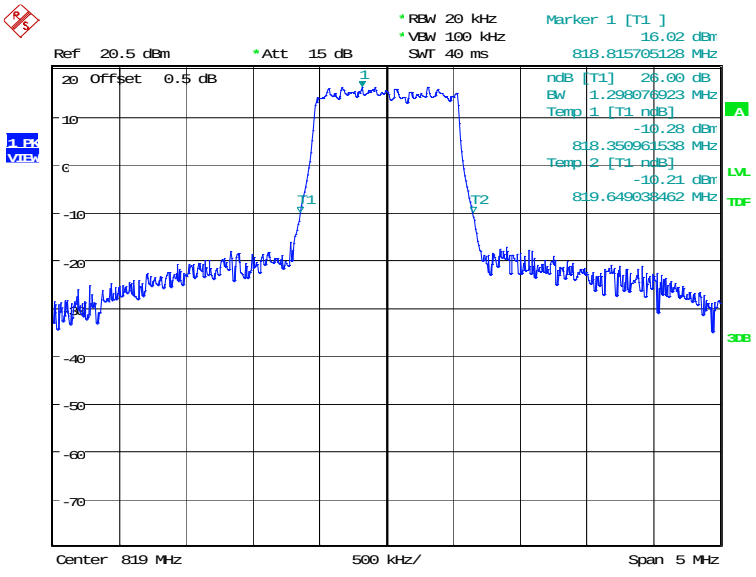
Frequency (MHz)	Occupied Bandwidth (-26dBc)(kHz)		
819.0	QPSK	16QAM	64QAM
	1290.06	1298.08	1290.06

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)



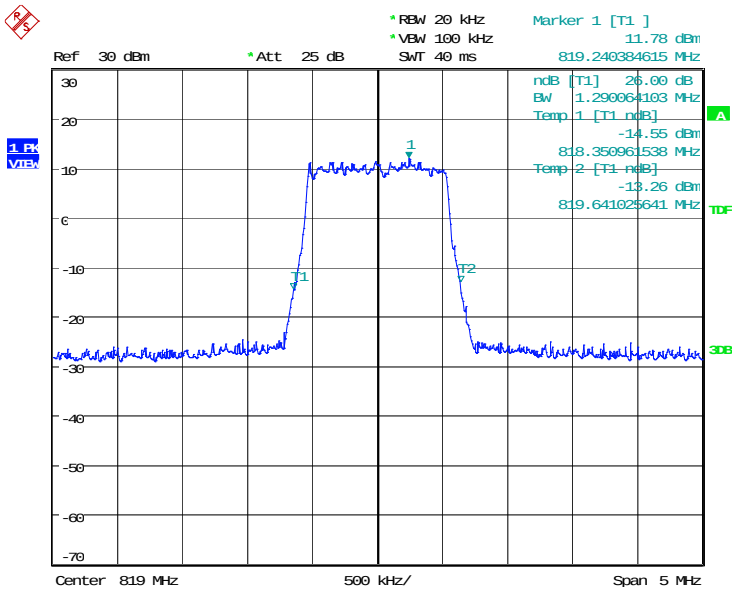
Date: 14.JAN.2020 05:18:54

LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 05:20:20

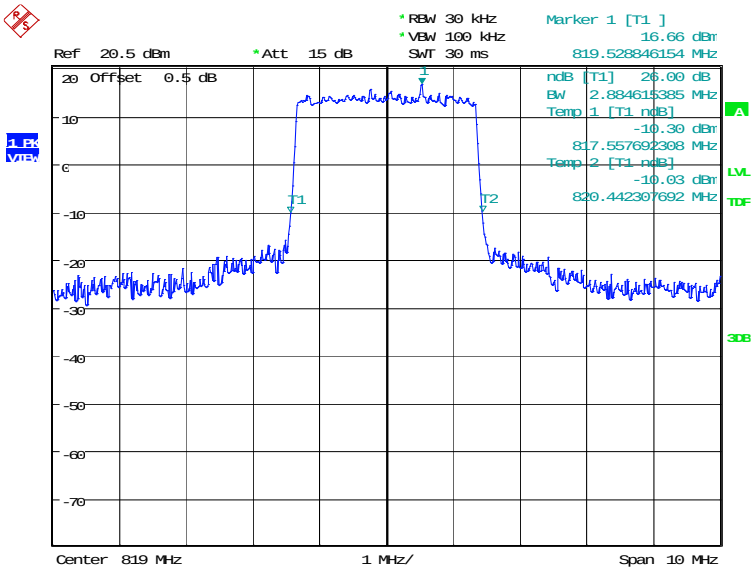
LTE band 26(814MHz~824MHz), 1.4MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 26(814MHz~824MHz), 3MHz (-26dBc)

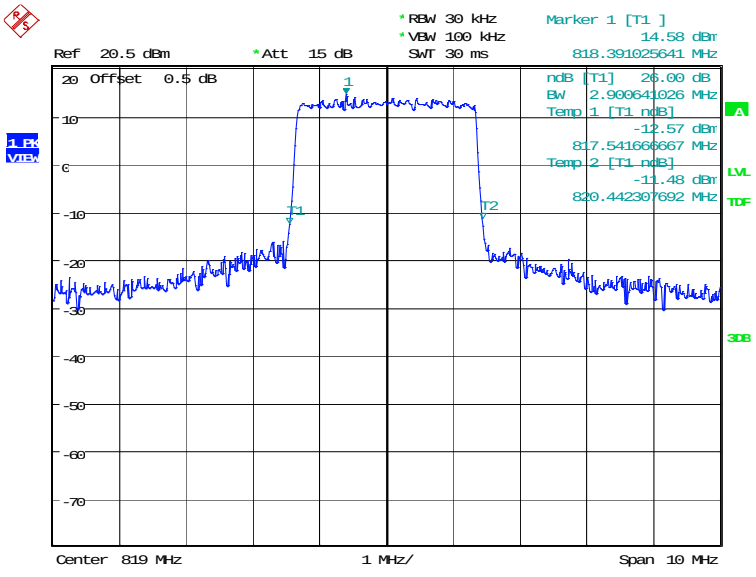
Frequency (MHz)	Occupied Bandwidth (-26dBc)(kHz)		
819.0	QPSK	16QAM	64QAM
	2884.62	2900.64	2852.56

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, QPSK (-26dBc BW)



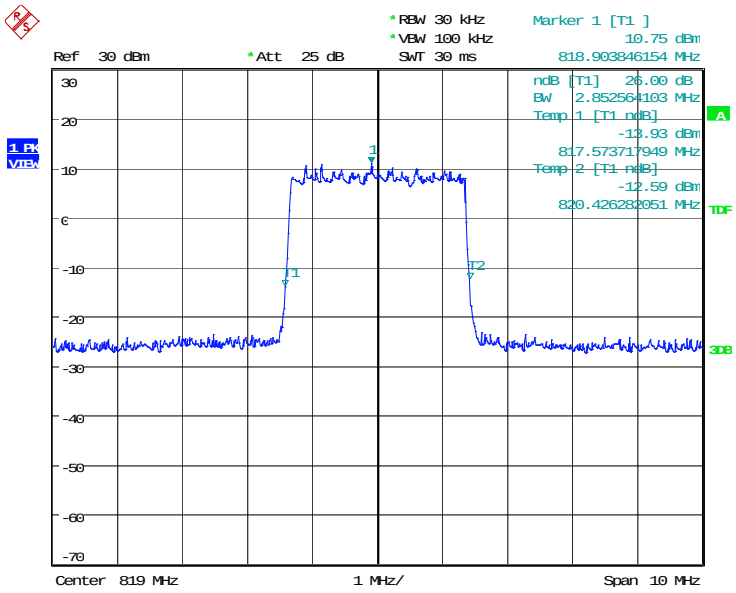
Date: 14.JAN.2020 05:22:40

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 05:24:06

LTE band 26(814MHz~824MHz), 3MHz Bandwidth, 64QAM (-26dBc BW)

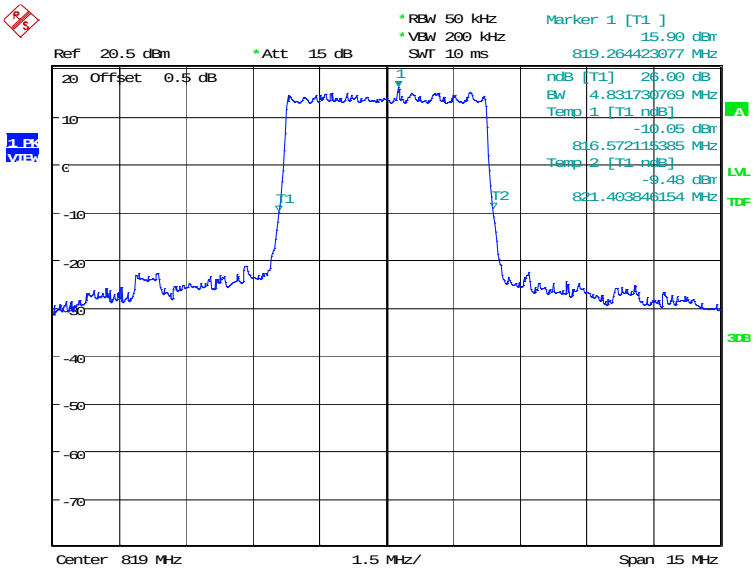


Date: 18.JAN.2020 17:13:59

LTE band 26(814MHz~824MHz), 5MHz (-26dBc)

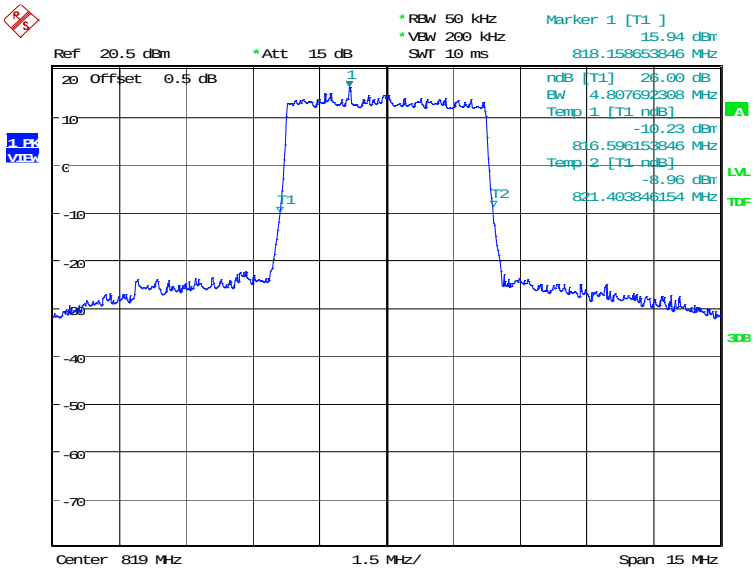
Frequency (MHz)	Occupied Bandwidth (-26dBc)(kHz)		
819.0	QPSK	16QAM	64QAM
	4831.73	4807.69	4831.73

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



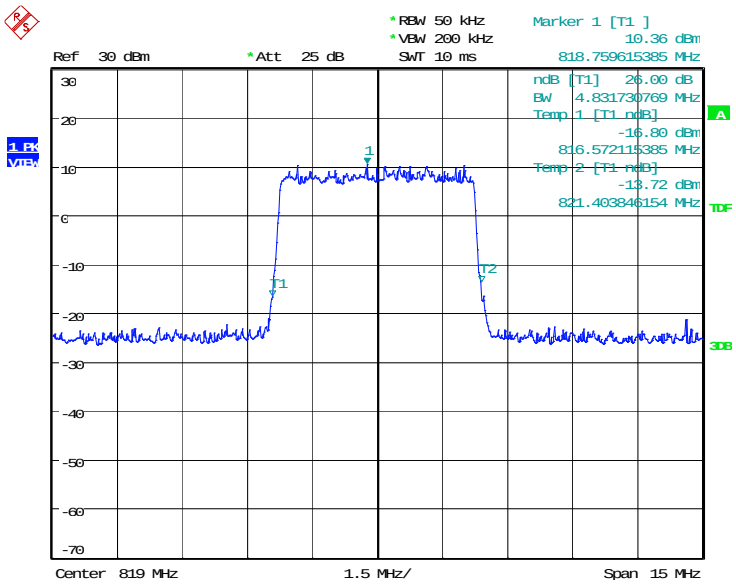
Date: 14.JAN.2020 05:26:27

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 05:27:53

LTE band 26(814MHz~824MHz), 5MHz Bandwidth, 64QAM (-26dBc BW)

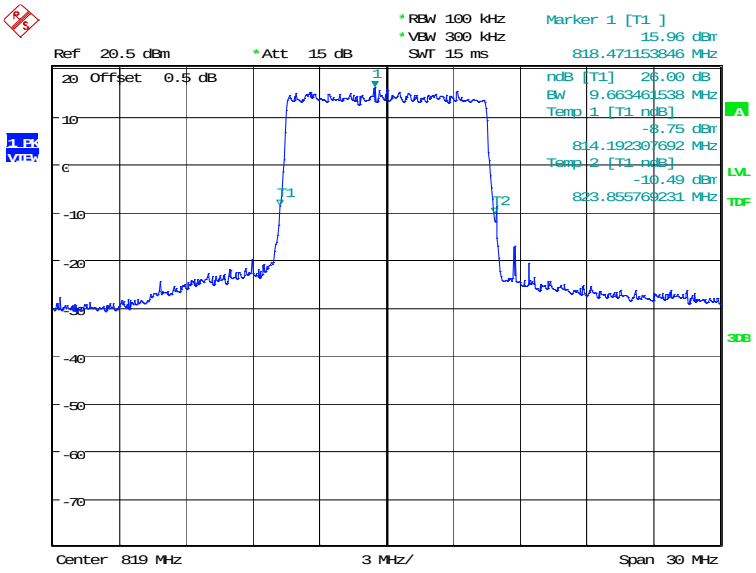


Date: 18.JAN.2020 17:15:12

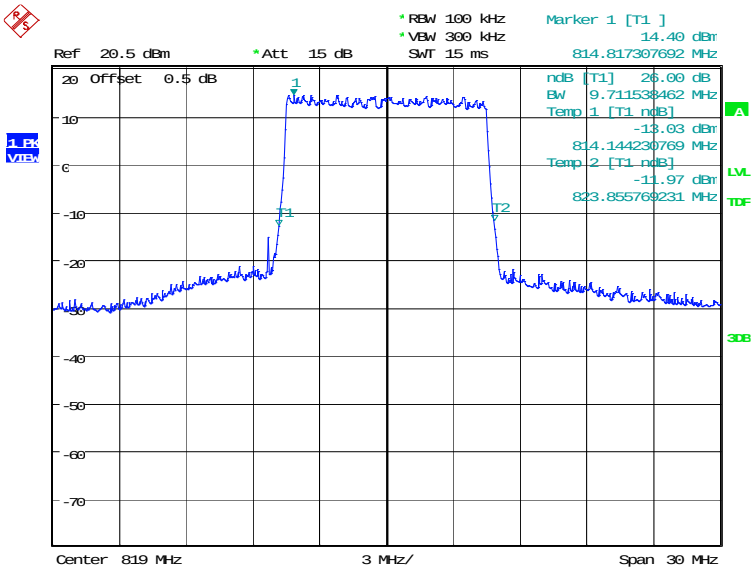
LTE band 26(814MHz~824MHz), 10MHz (-26dBc)

Frequency (MHz)	Occupied Bandwidth (-26dBc)(kHz)		
819.0	QPSK	16QAM	64QAM
	9663.46	9711.54	9615.38

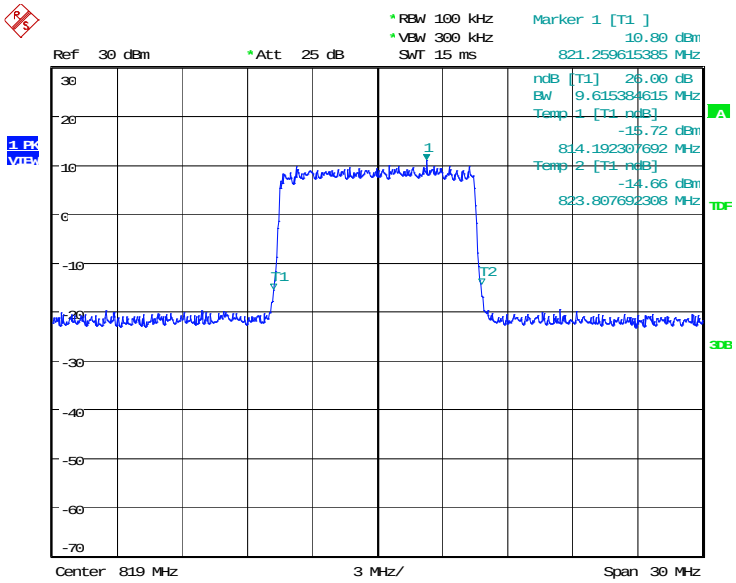
LTE band 26(814MHz~824MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)



LTE band 26(814MHz~824MHz), 10MHz Bandwidth, 64QAM (-26dBc BW)

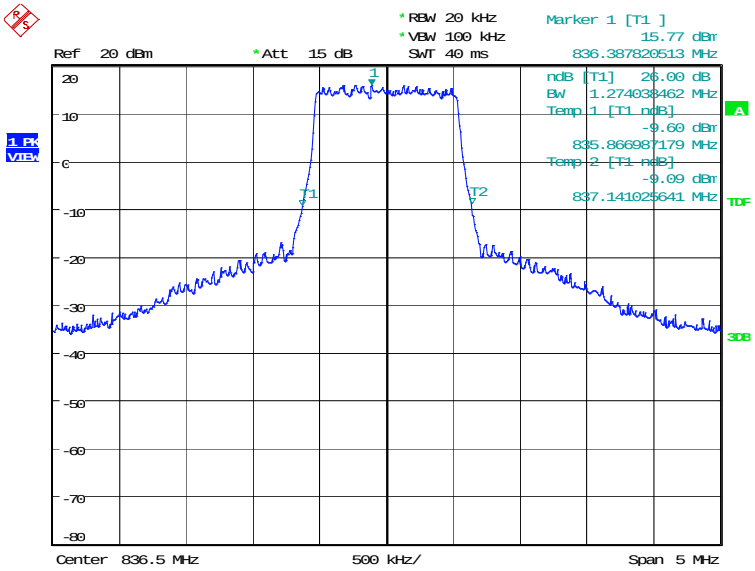


Date: 18.JAN.2020 17:16:25

LTE band 26(824MHz~849MHz), 1.4MHz (-26dBc)

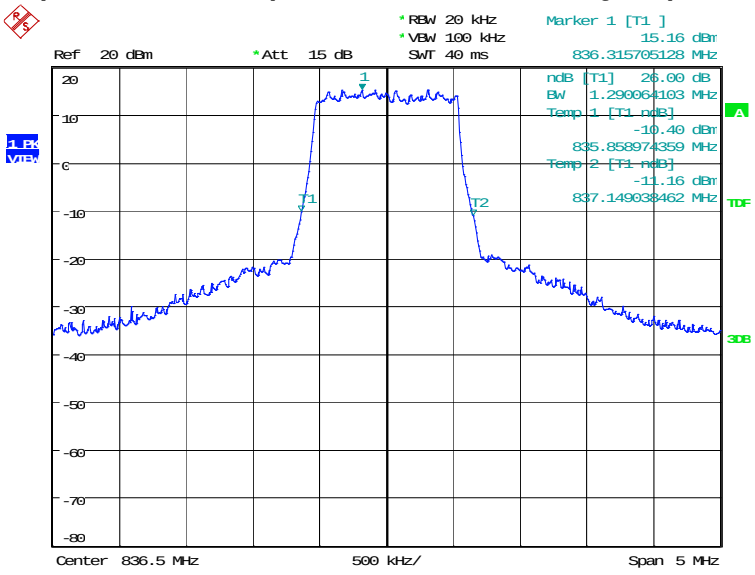
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
836.5	QPSK	16QAM	64QAM
	1274.04	1290.06	1298.08

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, QPSK (-26dBc BW)



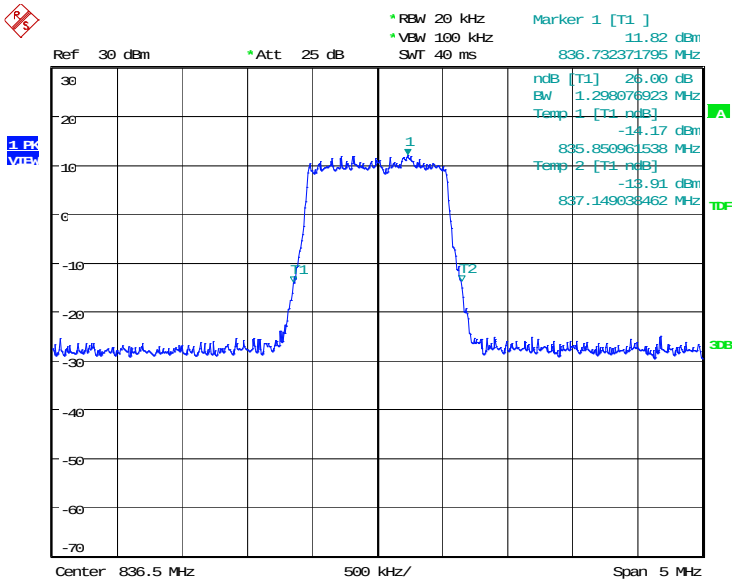
Date: 14.JAN.2020 05:00:11

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 05:01:37

LTE band 26(824MHz~849MHz), 1.4MHz Bandwidth, 64QAM (-26dBc BW)

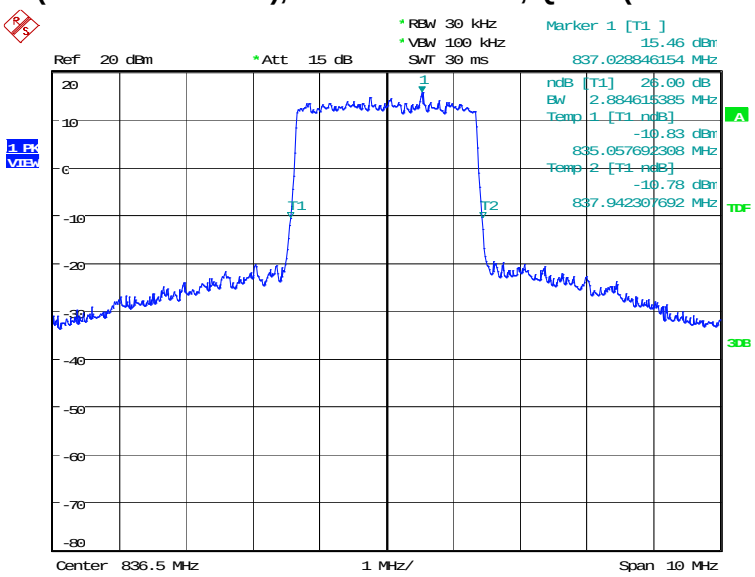


Date: 18.JAN.2020 16:30:57

LTE band 26(824MHz~849MHz), 3MHz (-26dBc)

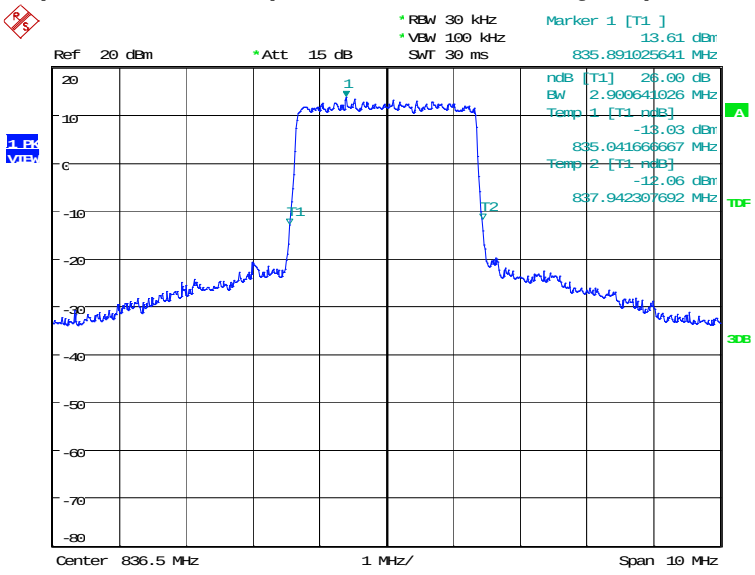
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
836.5	QPSK	16QAM	64QAM
	2884.62	2900.64	2884.62

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, QPSK (-26dBc BW)



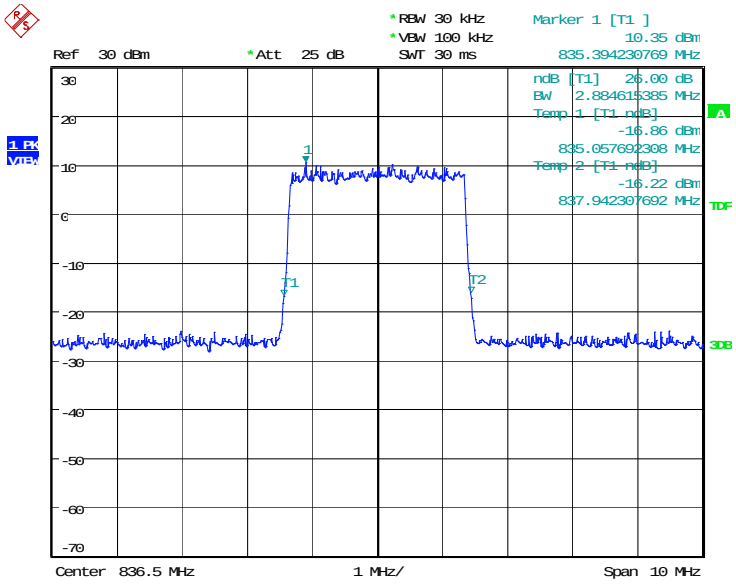
Date: 14.JAN.2020 05:03:56

LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 05:05:22

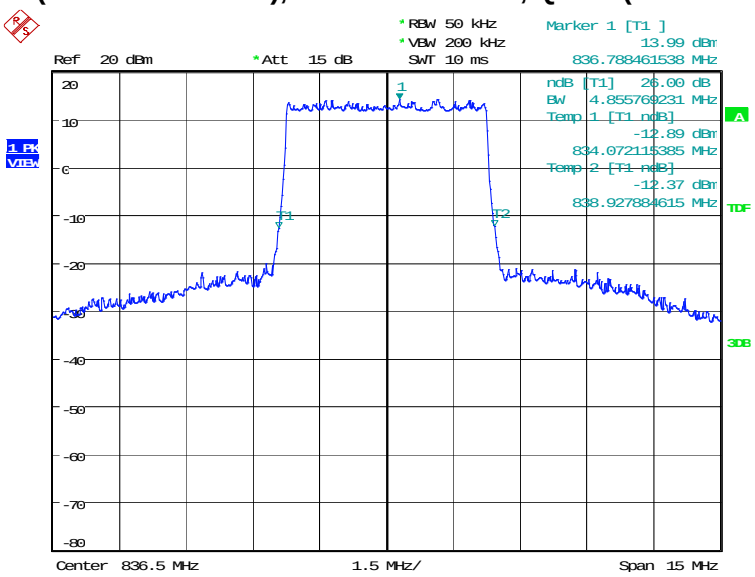
LTE band 26(824MHz~849MHz), 3MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 26(824MHz~849MHz), 5MHz (-26dBc)

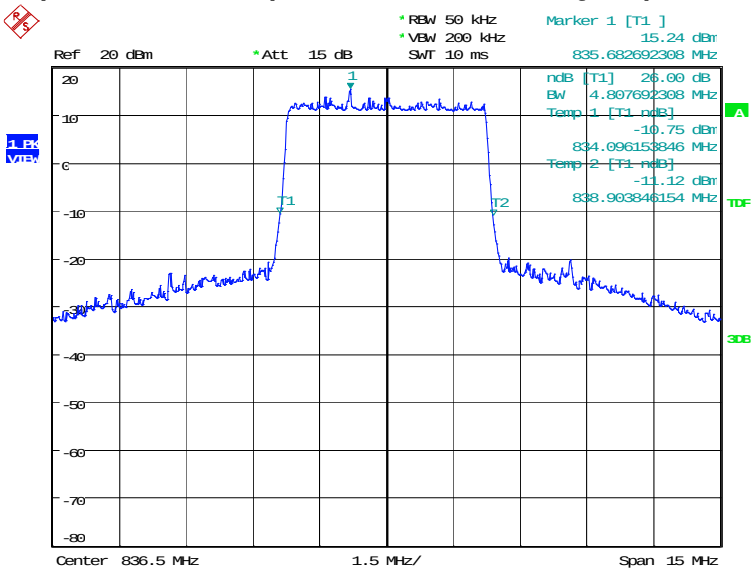
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
836.5	QPSK	16QAM	64QAM
	4855.77	4807.69	4807.69

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, QPSK (-26dBc BW)



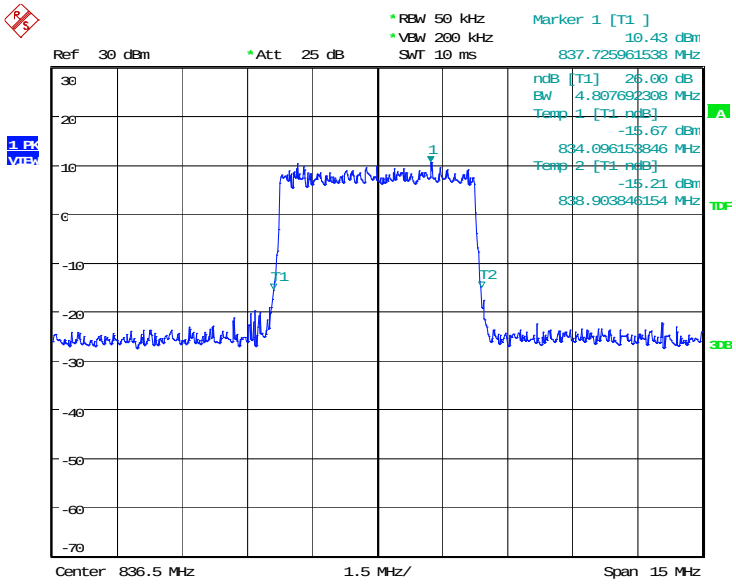
Date: 14.JAN.2020 05:07:43

LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 05:09:09

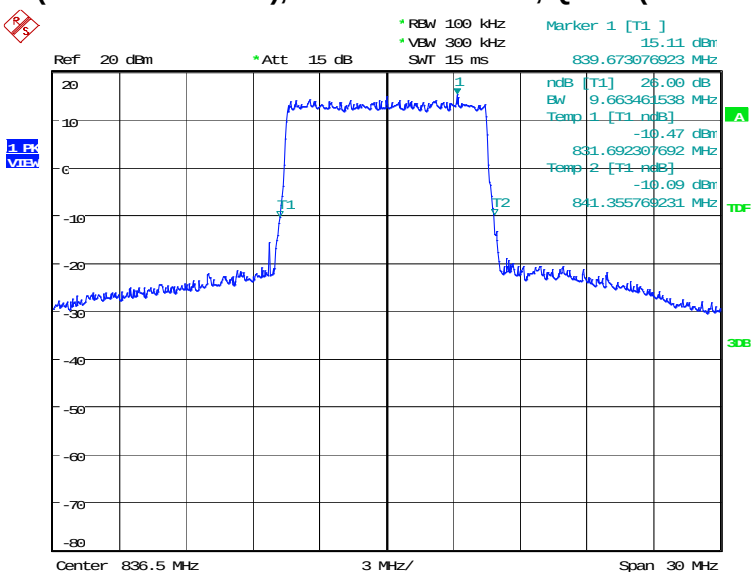
LTE band 26(824MHz~849MHz), 5MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 26(824MHz~849MHz), 10MHz (-26dBc)

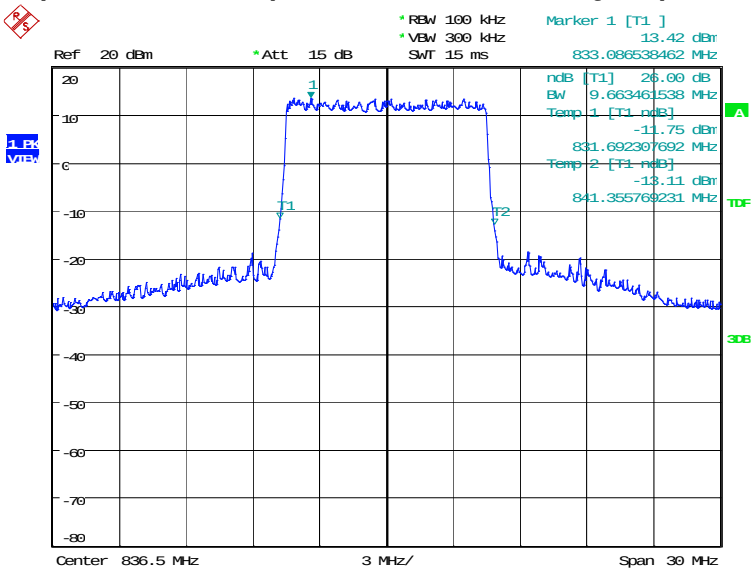
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
836.5	QPSK	16QAM	64QAM
	9663.46	9663.46	9663.46

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, QPSK (-26dBc BW)



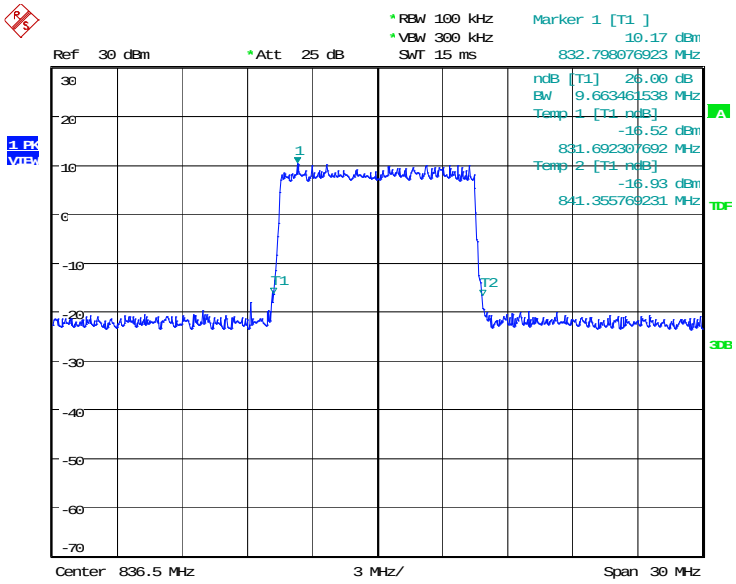
Date: 14.JAN.2020 05:11:33

LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 05:12:59

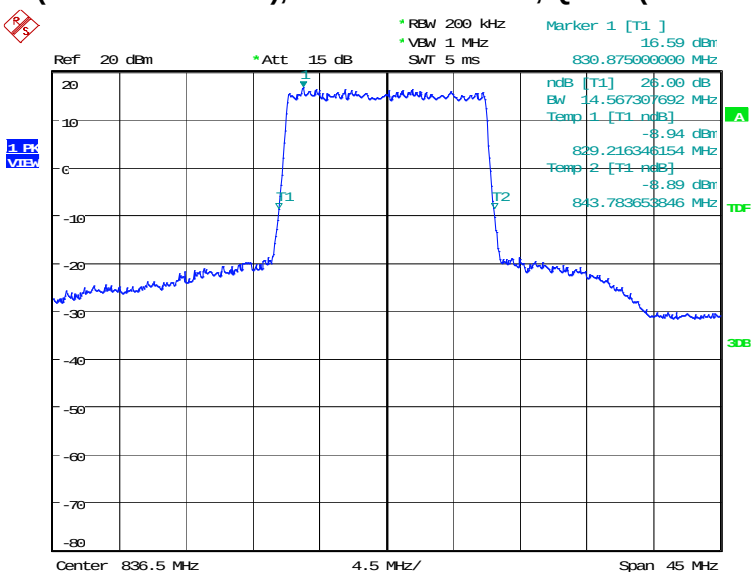
LTE band 26(824MHz~849MHz), 10MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 26(824MHz~849MHz), 15MHz (-26dBc)

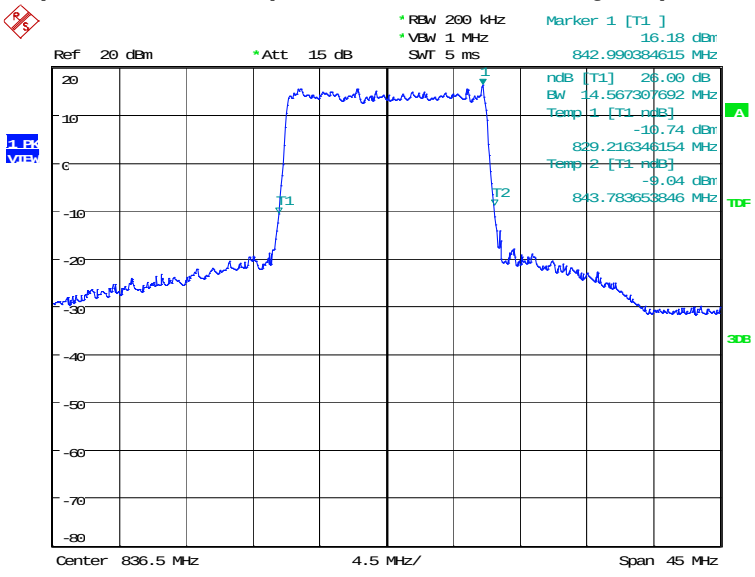
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
836.5	QPSK	16QAM	64QAM
	14567.31	14567.31	14495.19

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, QPSK (-26dBc BW)



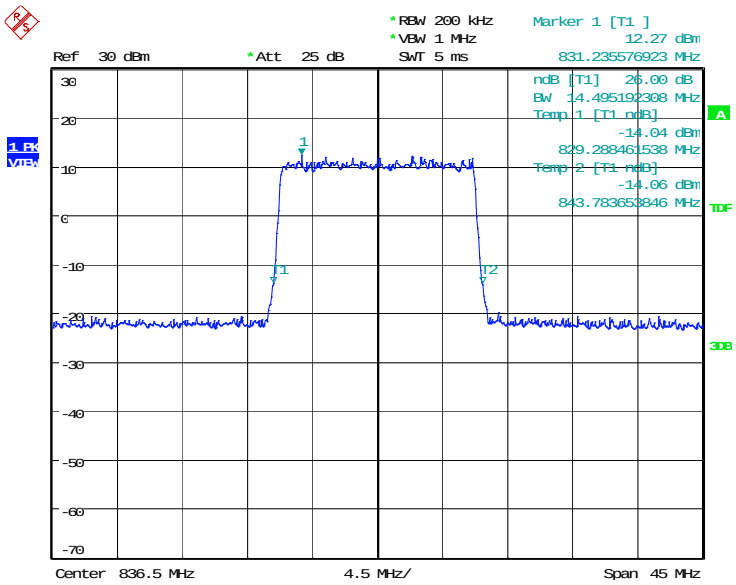
Date: 14.JAN.2020 05:15:23

LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 05:16:49

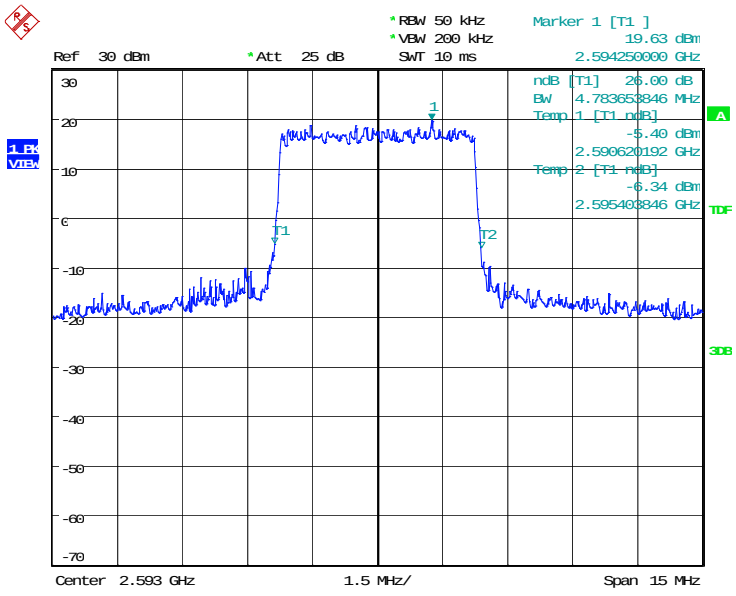
LTE band 26(824MHz~849MHz), 15MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 41-HPUE, 5MHz (-26dBc)

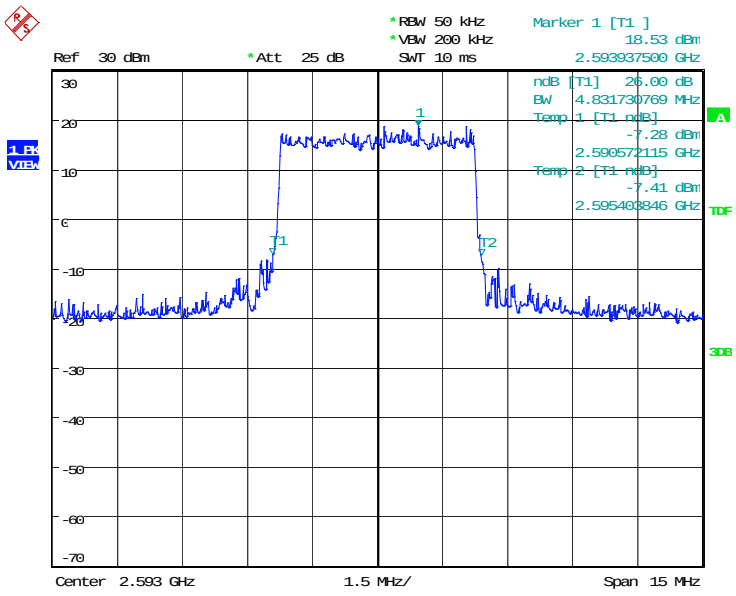
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
2593.0	QPSK	16QAM	64QAM
	4831.73	4855.77	4807.69

LTE band 41, 5MHz Bandwidth, QPSK (-26dBc BW)



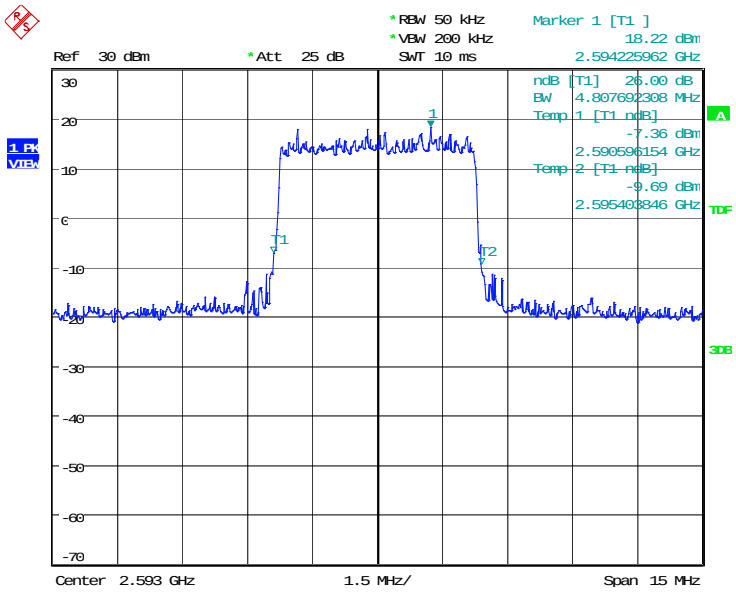
Date: 28.FEB.2020 10:52:11

LTE band 41, 5MHz Bandwidth,16QAM (-26dBc BW)



Date: 28.FEB.2020 10:45:03

LTE band 41, 5MHz Bandwidth,64QAM (-26dBc BW)

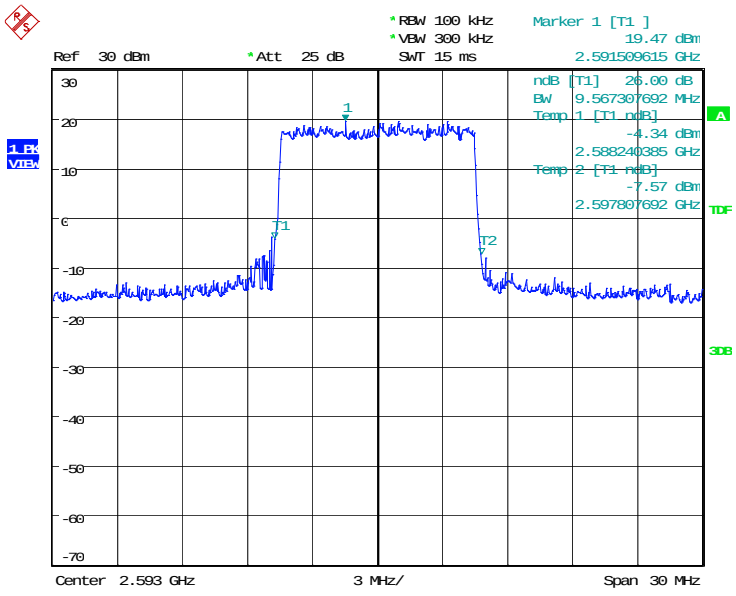


Date: 28.FEB.2020 10:39:17

LTE band 41-HPUE, 10MHz (-26dBc)

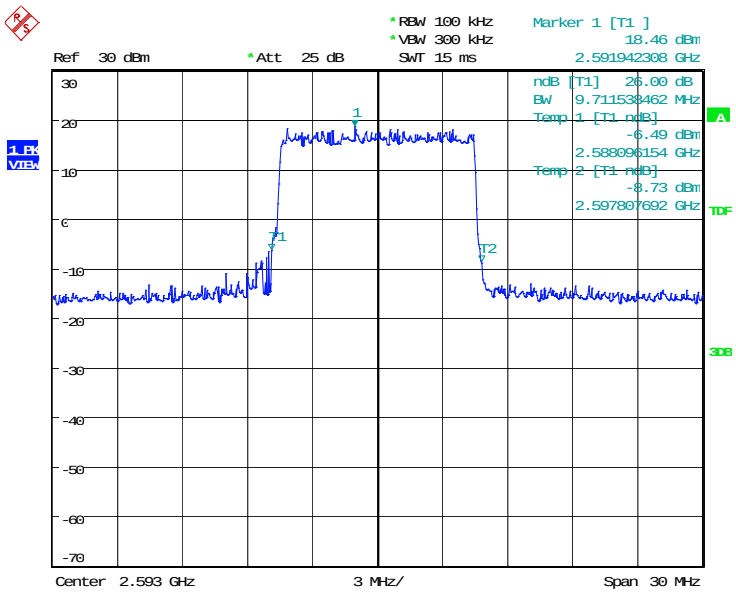
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
2593.0	QPSK	16QAM	64QAM
	9711.54	9807.69	9615.38

LTE band 41, 10MHz Bandwidth, QPSK (-26dBc BW)



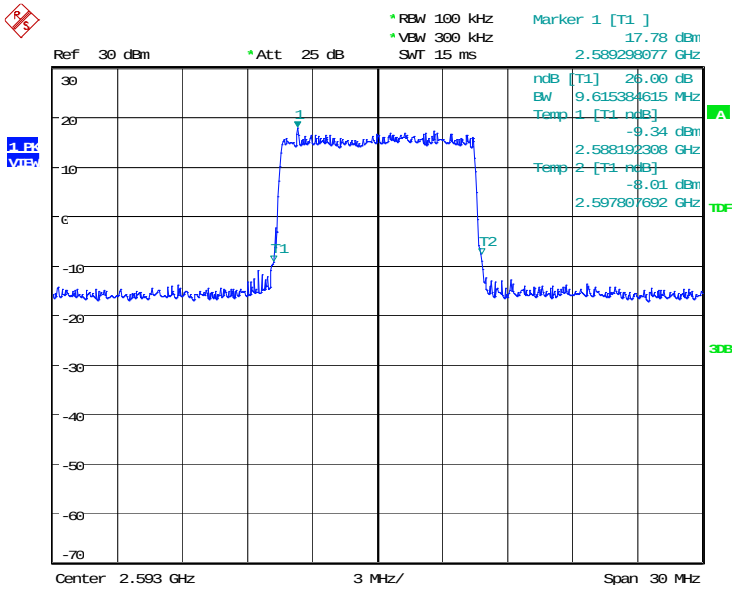
Date: 28.FEB.2020 10:53:36

LTE band 41, 10MHz Bandwidth,16QAM (-26dBc BW)



Date: 28.FEB.2020 10:46:40

LTE band 41, 10MHz Bandwidth, 64QAM (-26dBc BW)

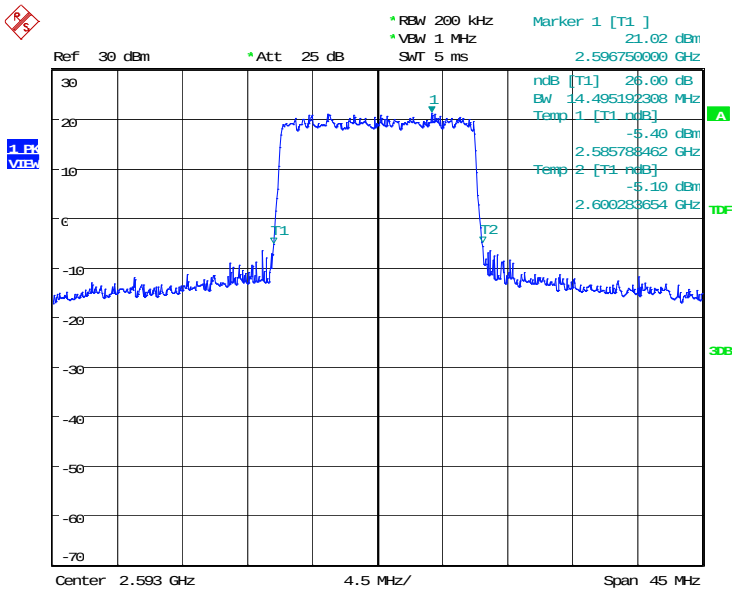


Date: 28.FEB.2020 10:41:15

LTE band 41-HPUE, 15MHz (-26dBc)

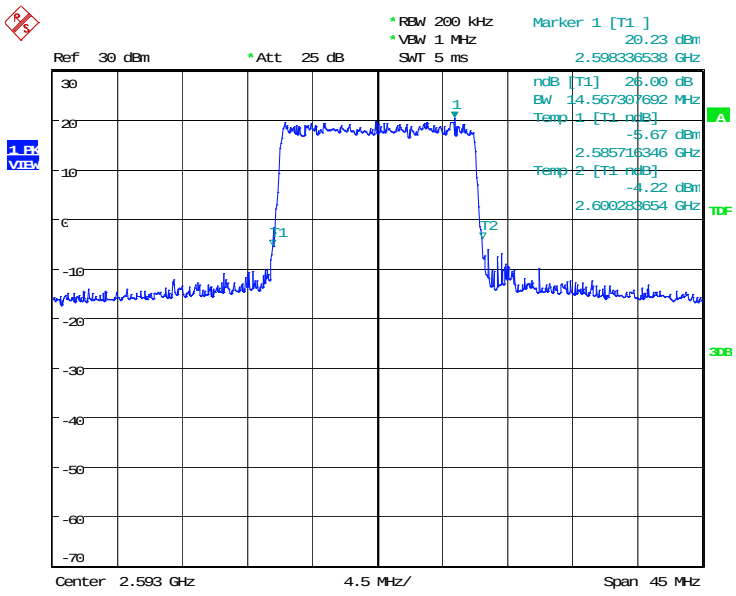
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
2593.0	QPSK	16QAM	64QAM
	14567.31	14783.65	14567.31

LTE band 41, 15MHz Bandwidth, QPSK (-26dBc BW)



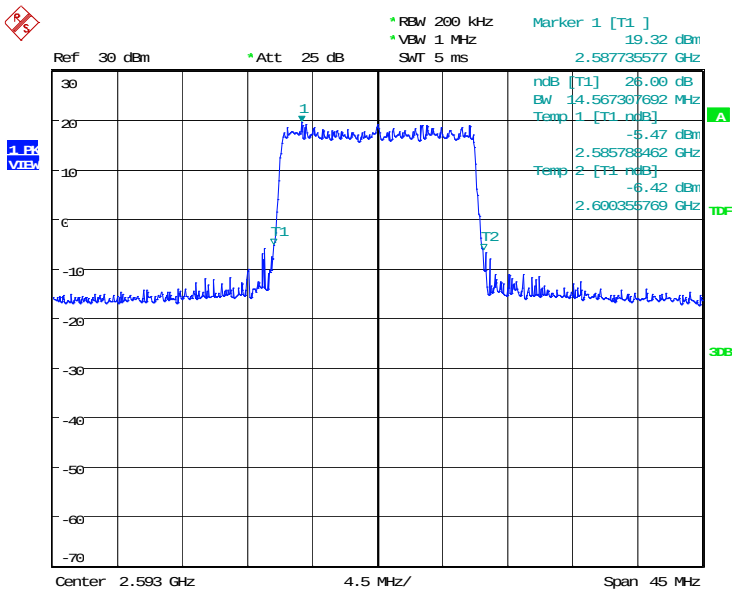
Date: 28.FEB.2020 10:54:45

LTE band 41, 15MHz Bandwidth,16QAM (-26dBc BW)



Date: 28.FEB.2020 10:48:26

LTE band 41, 15MHz Bandwidth, 64QAM (-26dBc BW)

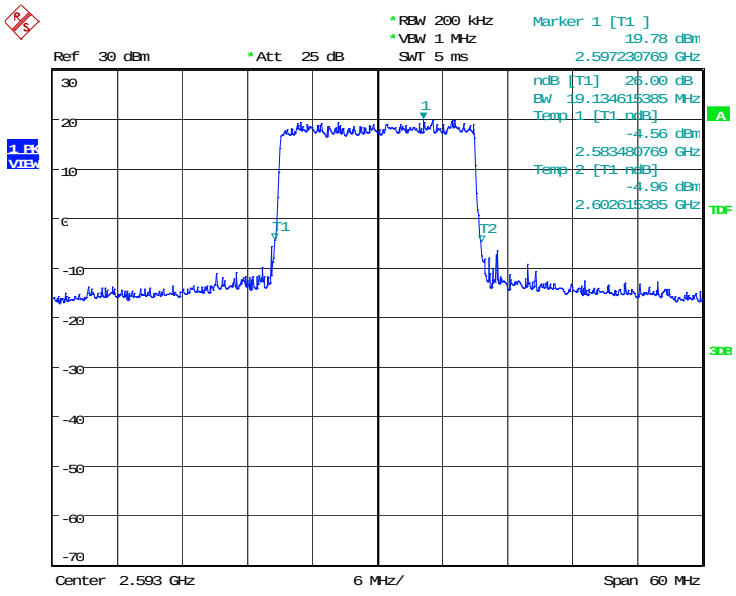


Date: 28.FEB.2020 10:42:21

LTE band 41-HPUE, 20MHz (-26dBc)

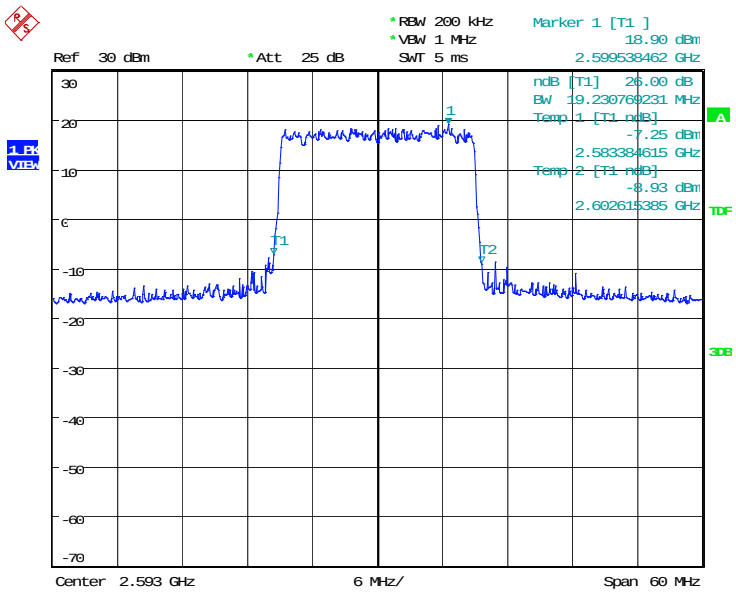
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
2593.0	QPSK	16QAM	64QAM
	19326.92	19230.77	19134.62

LTE band 41, 20MHz Bandwidth, QPSK (-26dBc BW)



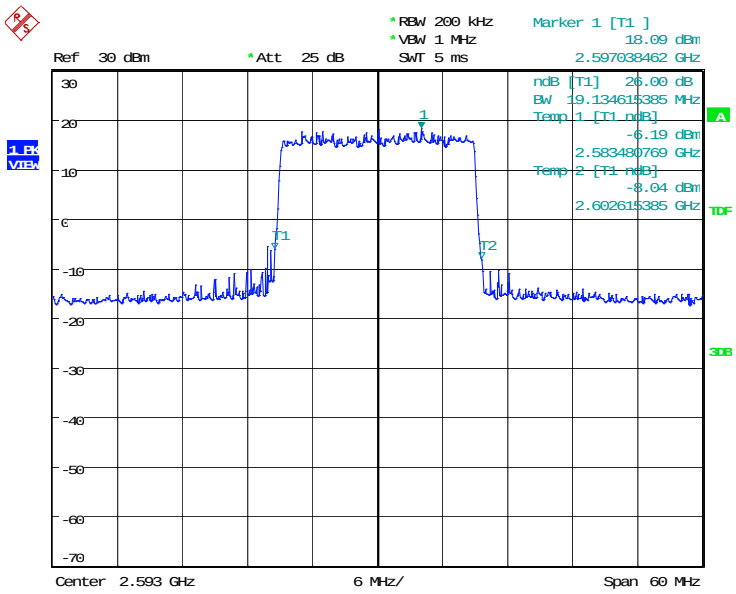
Date: 28.FEB.2020 10:55:53

LTE band 41, 20MHz Bandwidth,16QAM (-26dBc BW)



Date: 28.FEB.2020 10:50:13

LTE band 41, 20MHz Bandwidth, 64QAM (-26dBc BW)

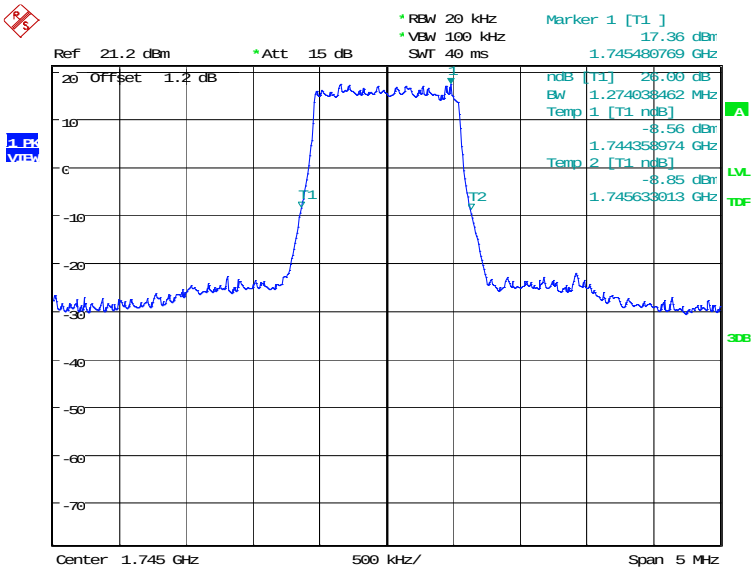


Date: 28.FEB.2020 10:43:23

LTE band 66, 1.4MHz (-26dBc)

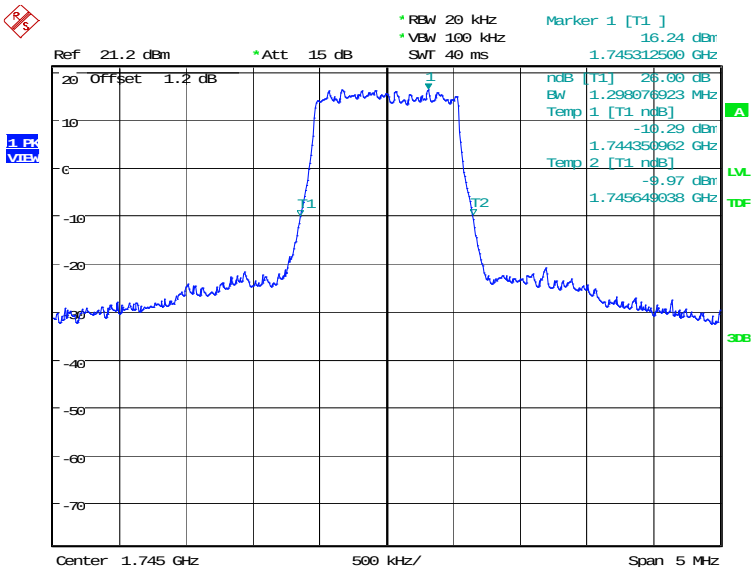
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1745.0	QPSK	16QAM	64QAM
	1274.04	1298.08	1290.06

LTE band 66, 1.4MHz Bandwidth, QPSK (-26dBc BW)



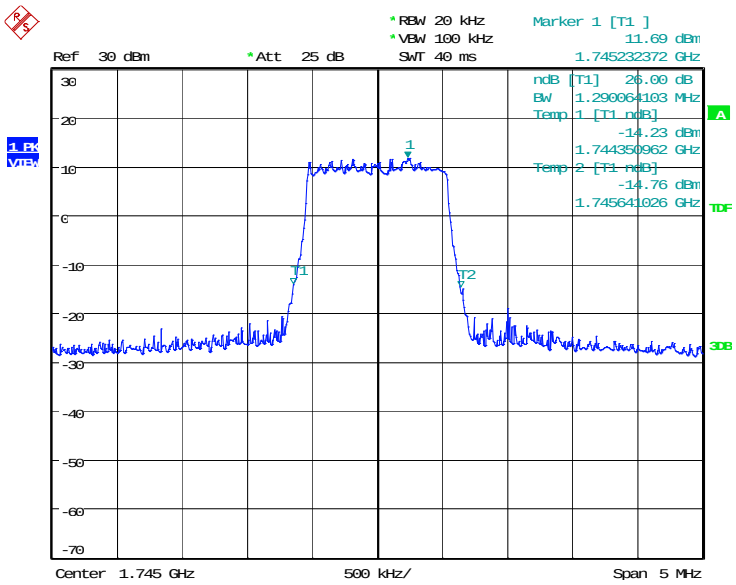
Date: 14.JAN.2020 08:44:57

LTE band 66, 1.4MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 08:46:21

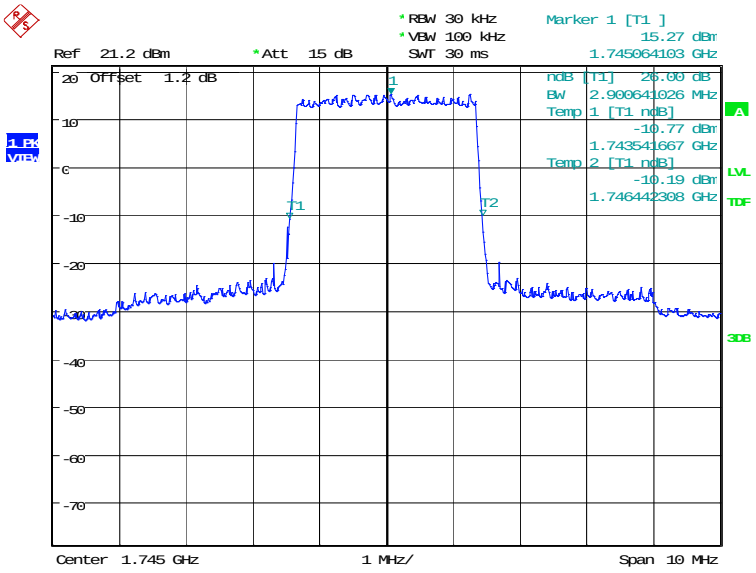
LTE band 66, 1.4MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 66, 3MHz (-26dBc)

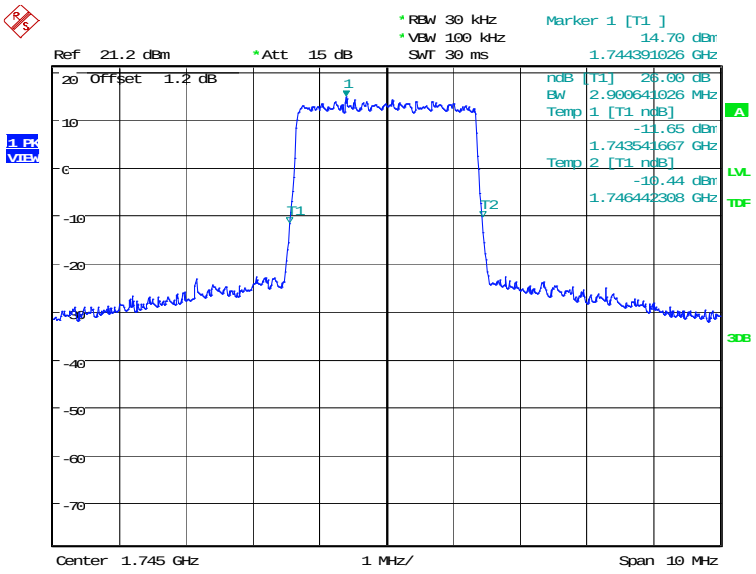
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1745.0	QPSK	16QAM	64QAM
	2900.64	2900.64	2884.62

LTE band 66, 3MHz Bandwidth, QPSK (-26dBc BW)



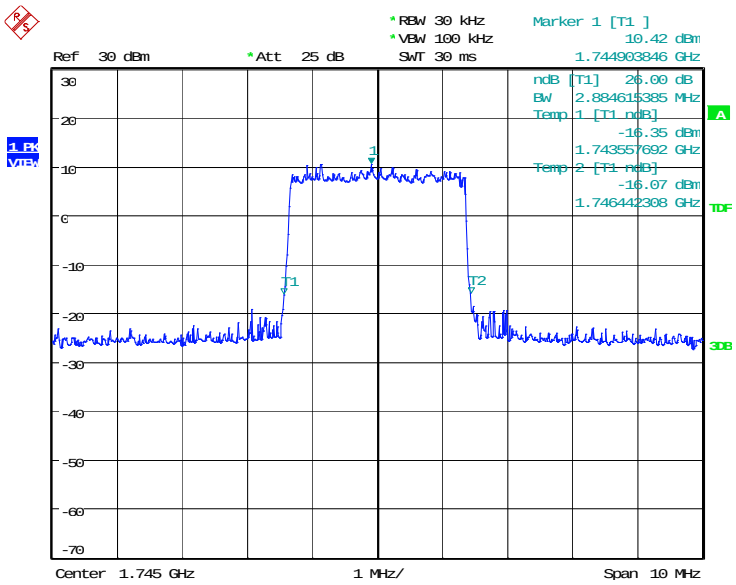
Date: 14.JAN.2020 08:48:50

LTE band 66, 3MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 08:50:14

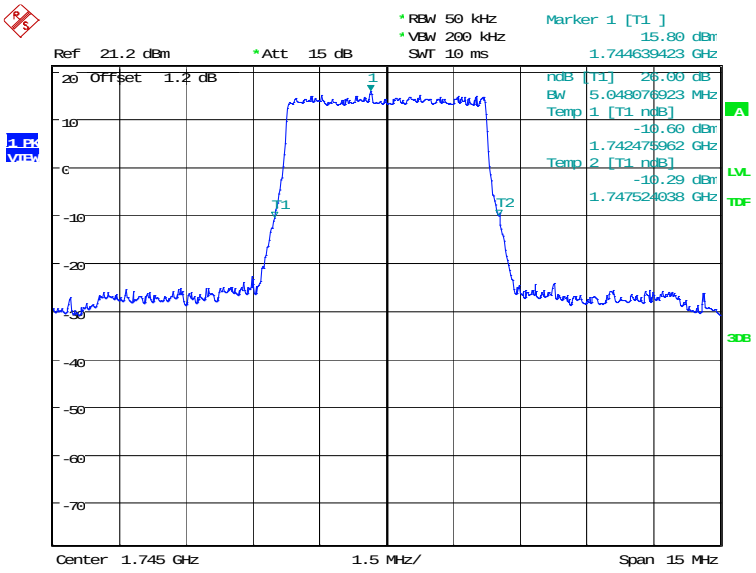
LTE band 66, 3MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 66, 5MHz (-26dBc)

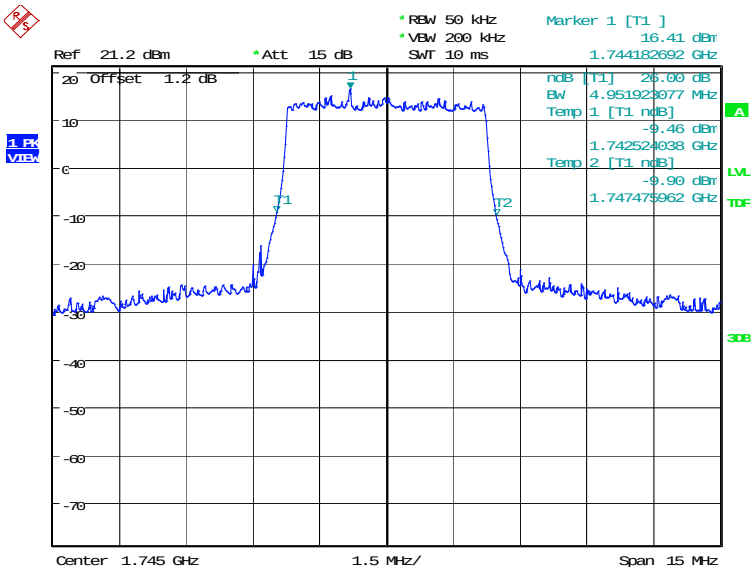
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1745.0	QPSK	16QAM	64QAM
	5048.08	4951.92	5072.12

LTE band 66, 5MHz Bandwidth, QPSK (-26dBc BW)



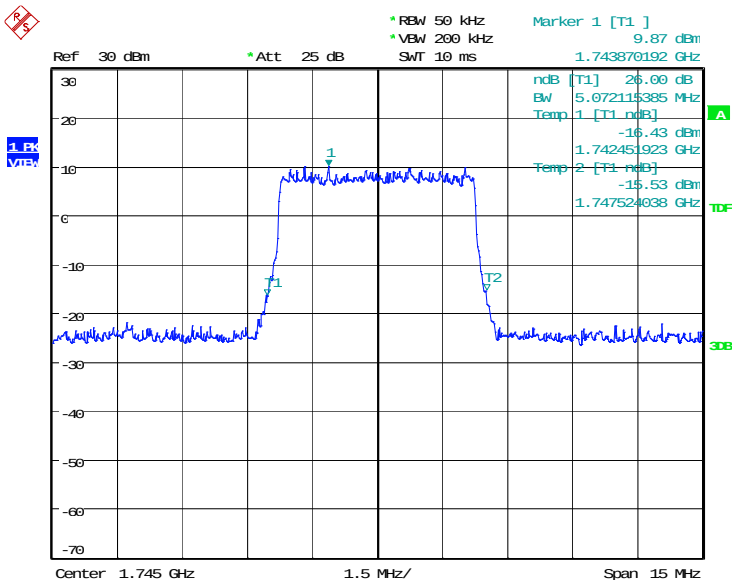
Date: 14.JAN.2020 08:52:39

LTE band 66, 5MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 08:54:03

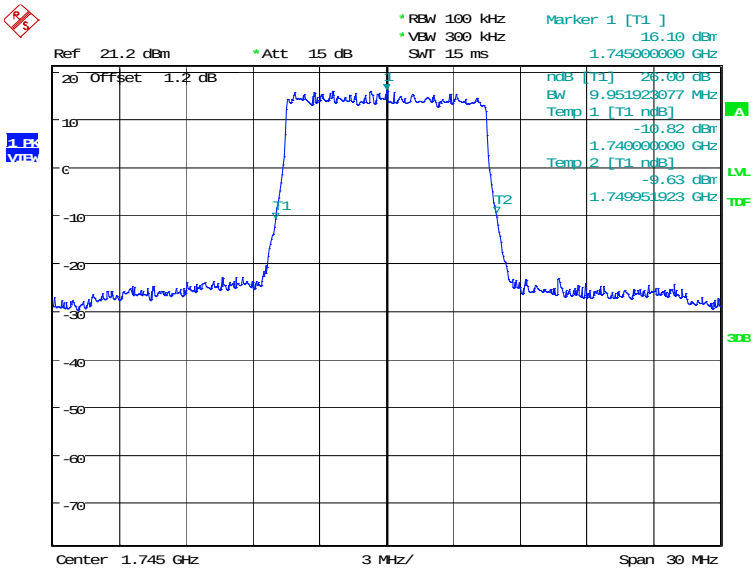
LTE band 66, 5MHz Bandwidth,64QAM (-26dBc BW)



LTE band 66, 10MHz (-26dBc)

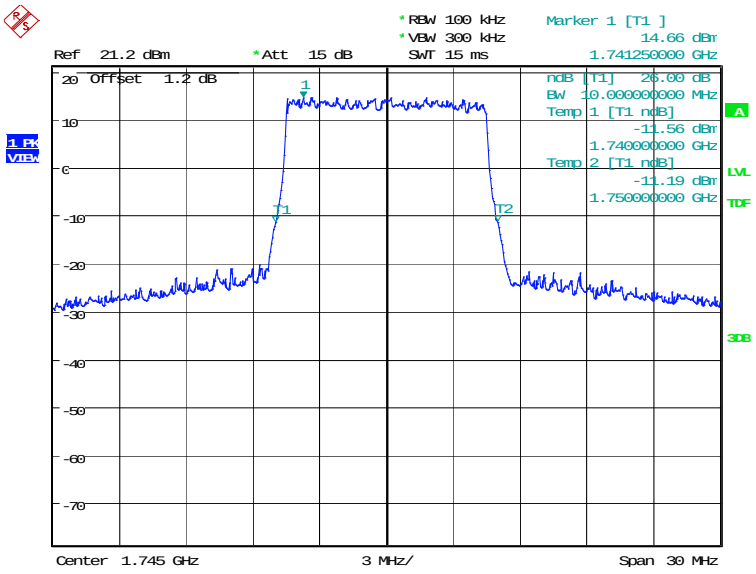
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1745.0	QPSK	16QAM	64QAM
	9951.92	10000.00	9903.85

LTE band 66, 10MHz Bandwidth, QPSK (-26dBc BW)



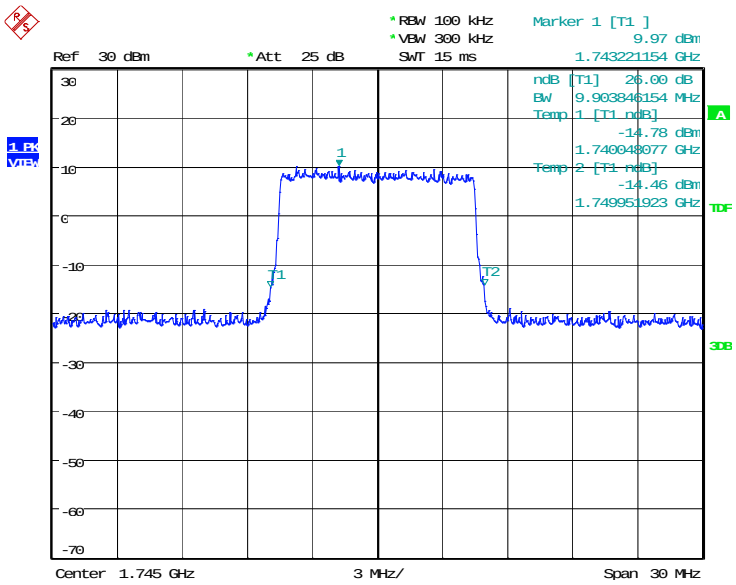
Date: 14.JAN.2020 08:56:28

LTE band 66, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 08:57:52

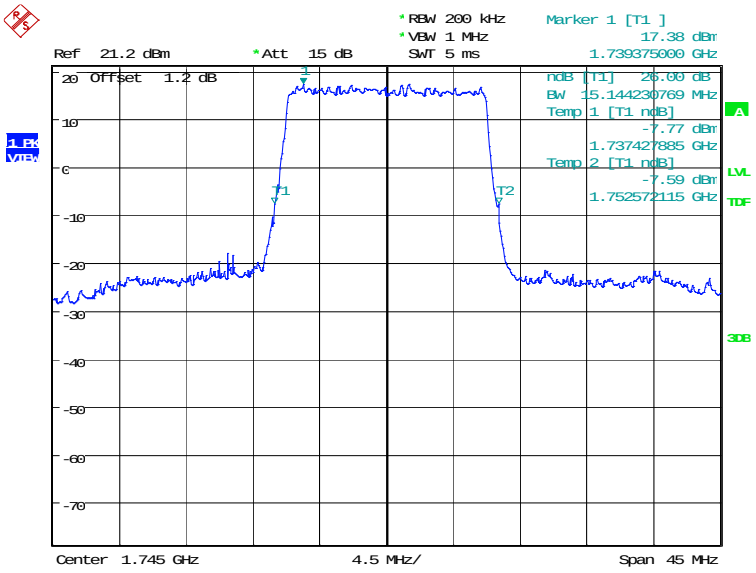
LTE band 66, 10MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 66, 15MHz (-26dBc)

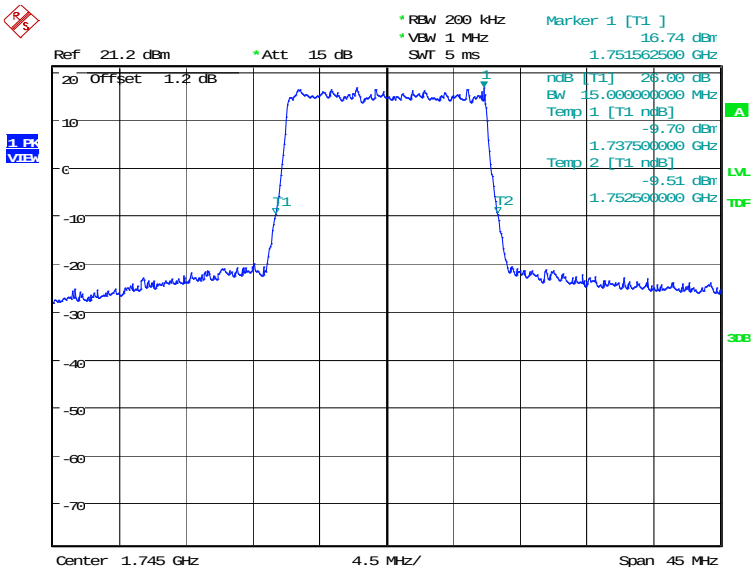
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1745.0	QPSK	16QAM	64QAM
	15144.23	15000.00	15072.12

LTE band 66, 15MHz Bandwidth, QPSK (-26dBc BW)



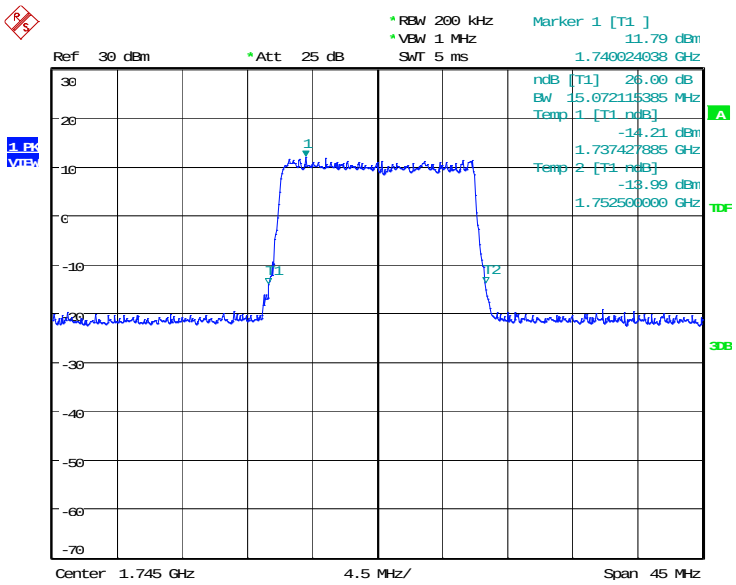
Date: 14.JAN.2020 09:00:17

LTE band 66, 15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 09:01:41

LTE band 66, 15MHz Bandwidth, 64QAM (-26dBc BW)

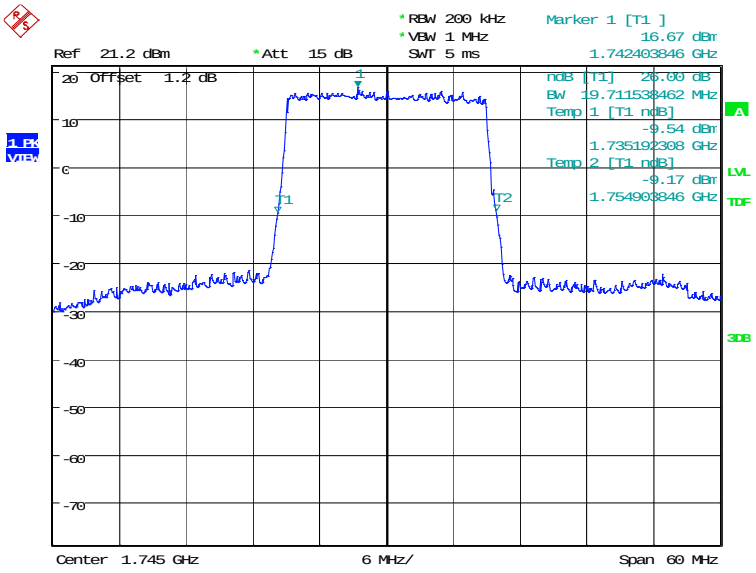


Date: 18.JAN.2020 17:24:15

LTE band 66, 20MHz (-26dBc)

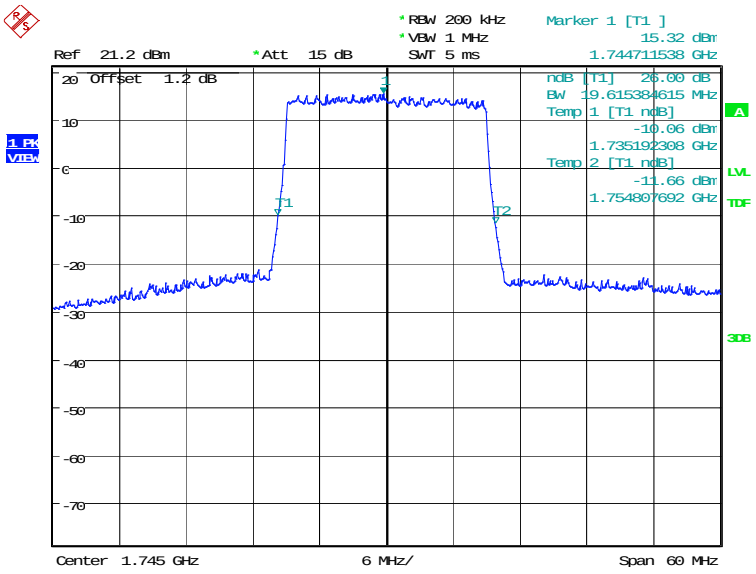
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
1745.0	QPSK	16QAM	64QAM
	19711.54	19615.38	19519.23

LTE band 66, 20MHz Bandwidth, QPSK (-26dBc BW)



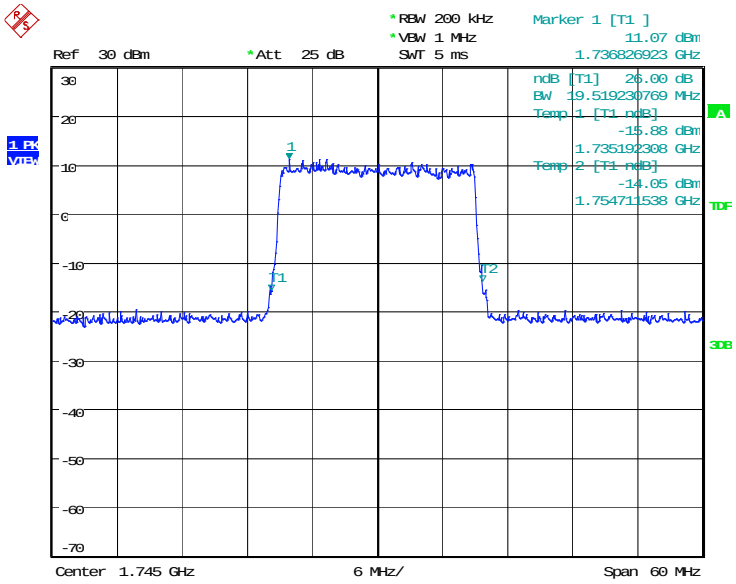
Date: 14.JAN.2020 09:04:08

LTE band 66, 20MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 09:05:33

LTE band 66, 20MHz Bandwidth, 64QAM (-26dBc BW)

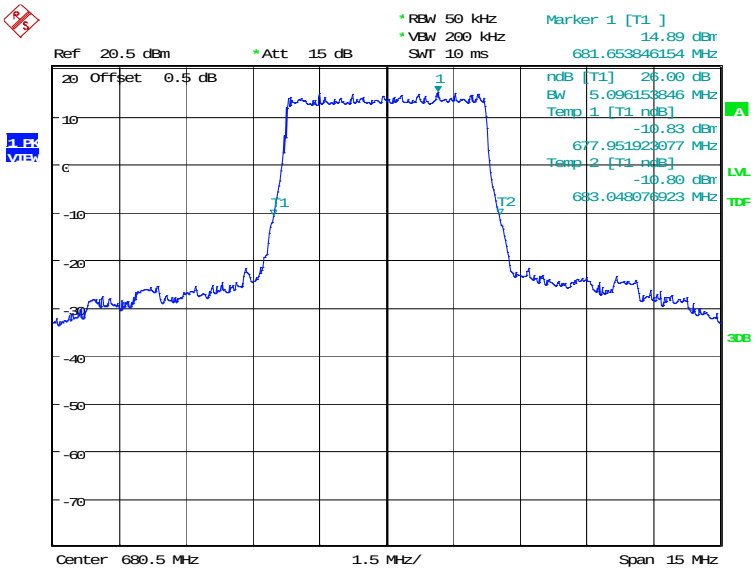


Date: 18.JAN.2020 17:25:42

LTE band 71, 5MHz (-26dBc)

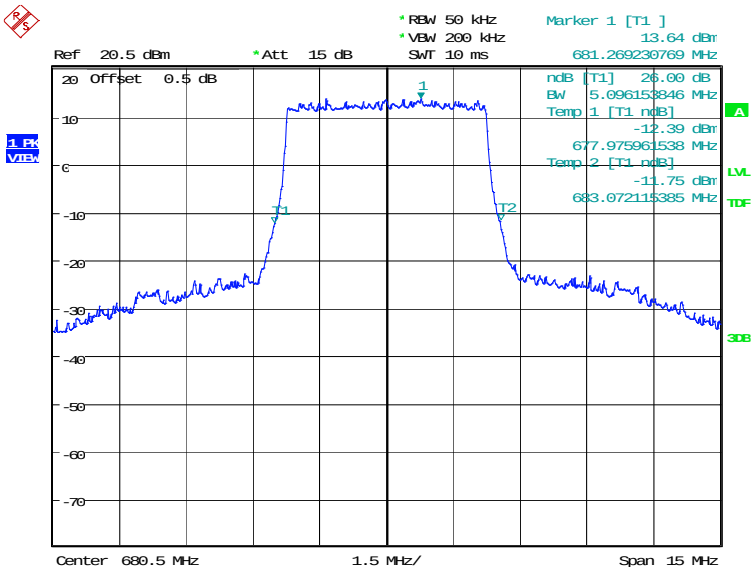
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
680.5	QPSK	16QAM	64QAM
	5096.15	5096.15	5048.08

LTE band 71, 5MHz Bandwidth, QPSK (-26dBc BW)



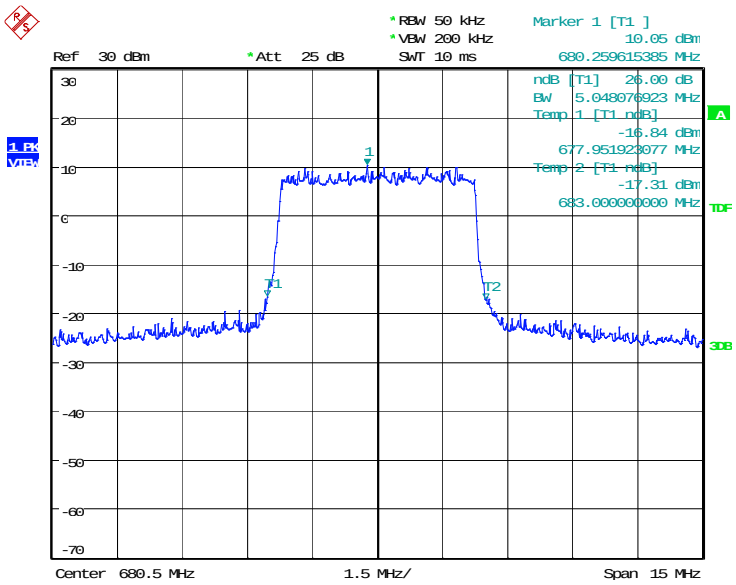
Date: 14.JAN.2020 09:08:10

LTE band 71, 5MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 09:09:34

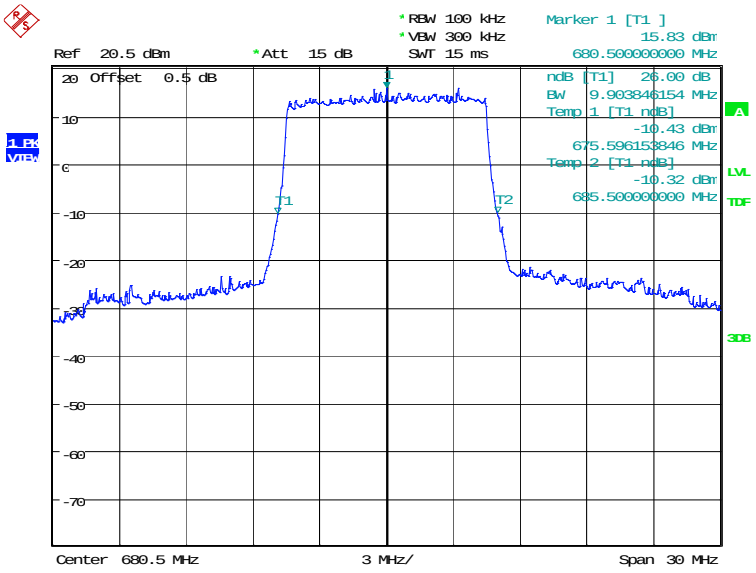
LTE band 71, 5MHz Bandwidth,64QAM (-26dBc BW)



LTE band 71, 10MHz (-26dBc)

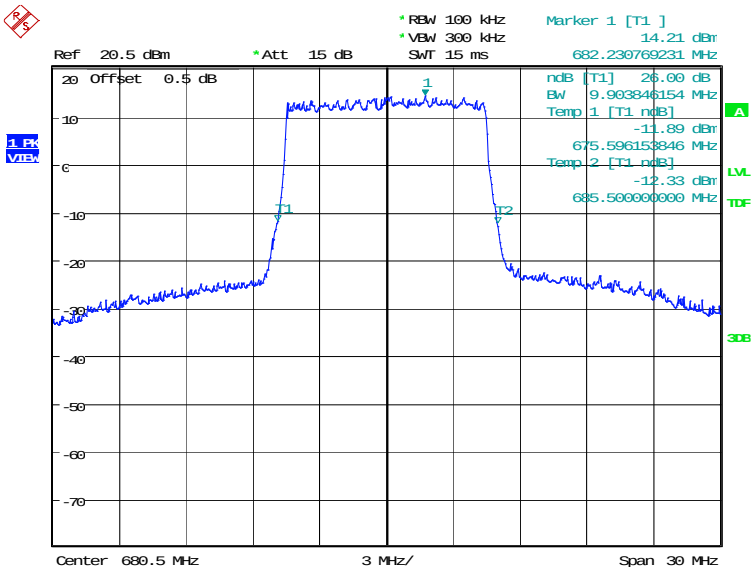
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
680.5	QPSK	16QAM	64QAM
	9903.85	9903.85	9903.85

LTE band 71, 10MHz Bandwidth, QPSK (-26dBc BW)



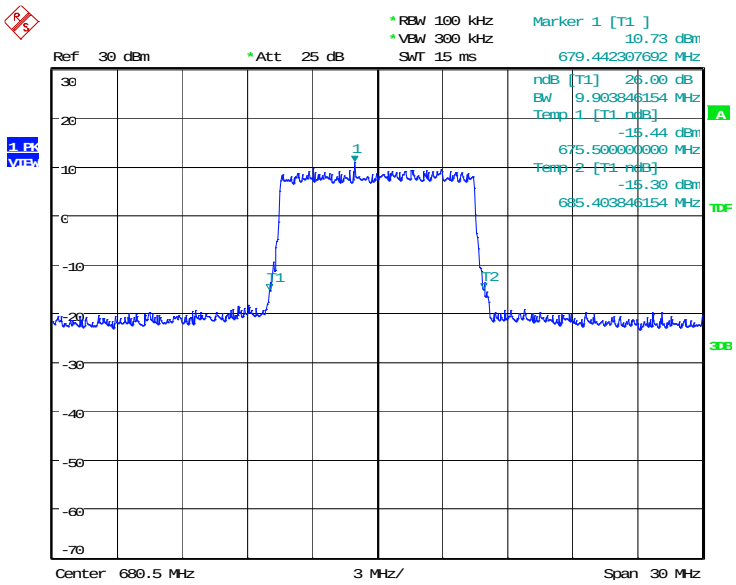
Date: 14.JAN.2020 09:12:01

LTE band 71, 10MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 09:13:26

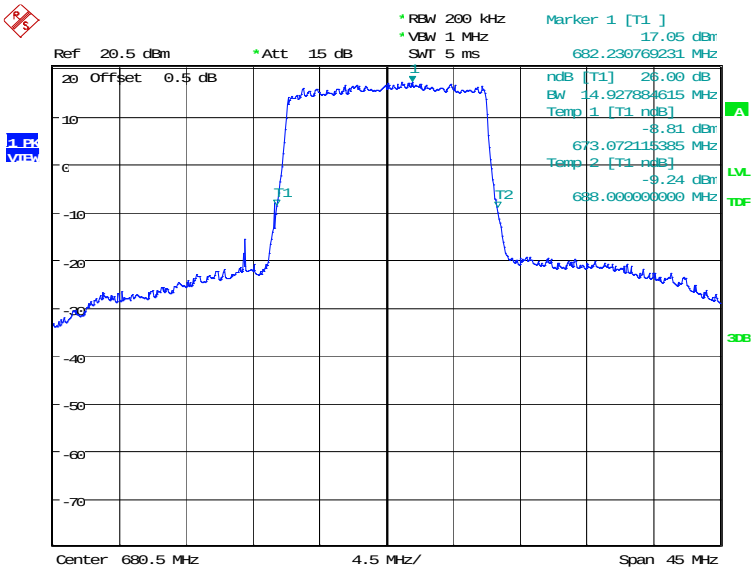
LTE band 71, 10MHz Bandwidth, 64QAM (-26dBc BW)



LTE band 71, 15MHz (-26dBc)

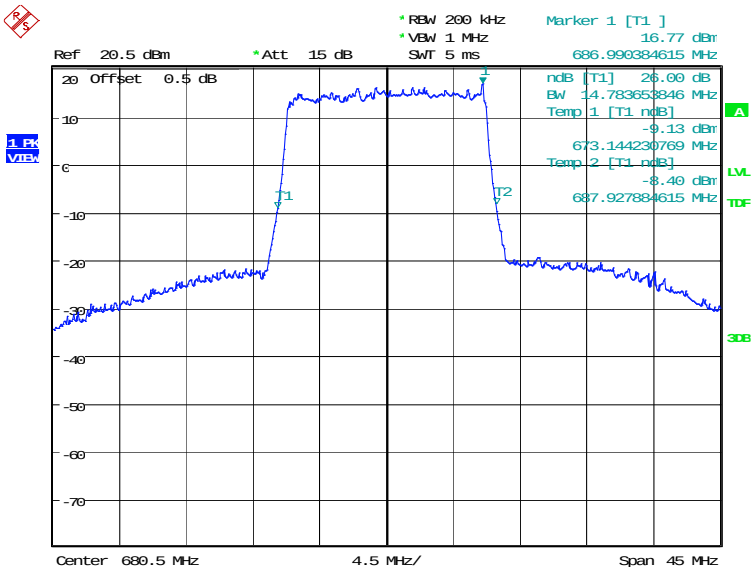
Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
680.5	QPSK	16QAM	64QAM
	14927.88	14783.65	15000.00

LTE band 71, 15MHz Bandwidth, QPSK (-26dBc BW)



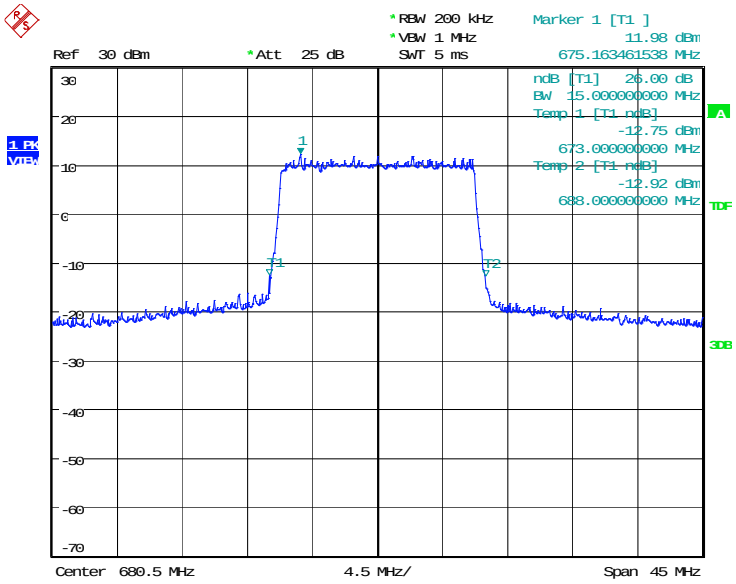
Date: 14.JAN.2020 09:15:53

LTE band 71, 15MHz Bandwidth, 16QAM (-26dBc BW)



Date: 14.JAN.2020 09:17:17

LTE band 71, 15MHz Bandwidth, 64QAM (-26dBc BW)

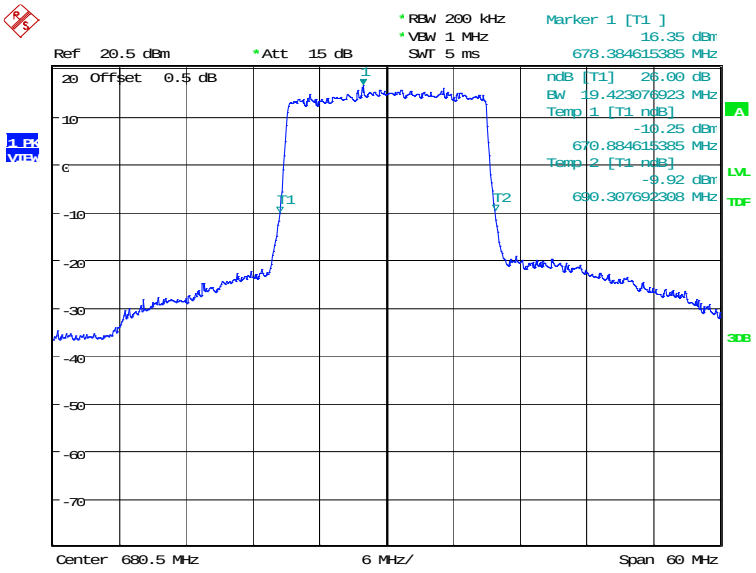


Date: 18.JAN.2020 17:31:42

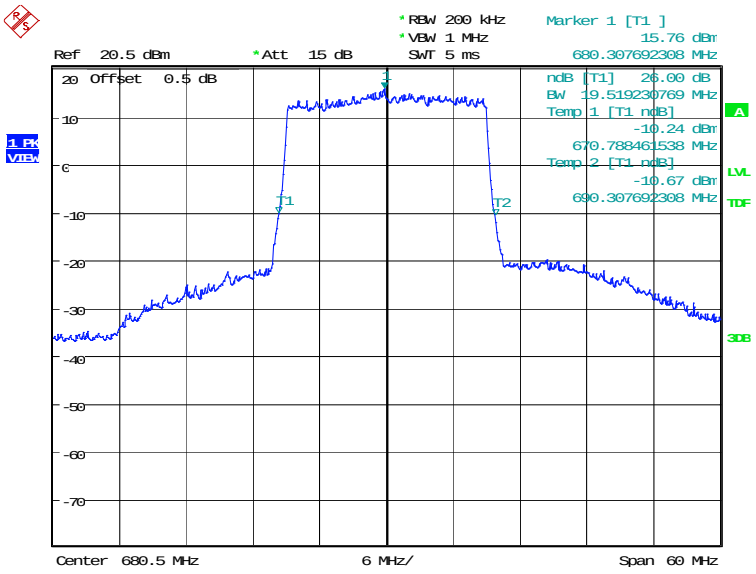
LTE band 71, 20MHz (-26dBc)

Frequency (MHz)	Occupied Bandwidth (-26dBc) (kHz)		
680.5	QPSK	16QAM	64QAM
	19423.08	19519.23	19711.54

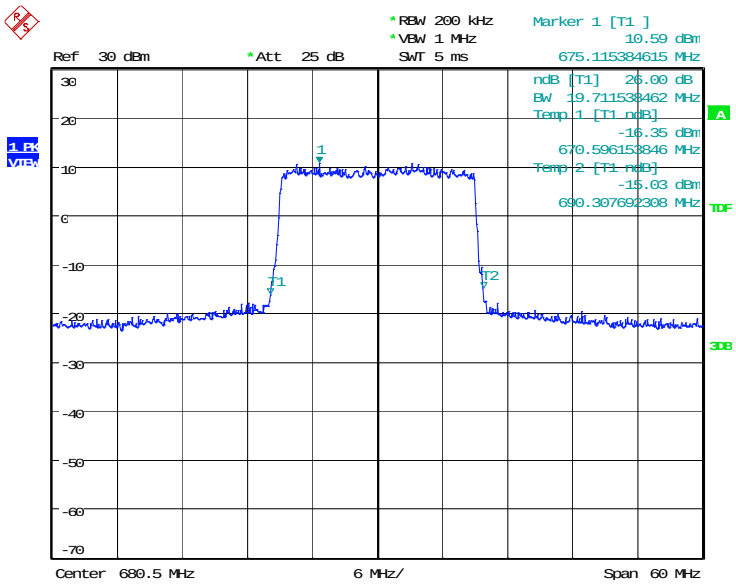
LTE band 71, 20MHz Bandwidth, QPSK (-26dBc BW)



LTE band 71, 20MHz Bandwidth, 16QAM (-26dBc BW)



LTE band 71, 20MHz Bandwidth, 64QAM (-26dBc BW)



A.6 BAND EDGE COMPLIANCE

A.6.1 Measurement limit

Part 22.917, Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Part 27.53(m)(4) specifies for mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 27.53(c) states for operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee’s frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 90.691 states that out-of-band emission requirement shall apply only to the ‘‘outer’’ channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:For any frequency removed from the EA licensee’s

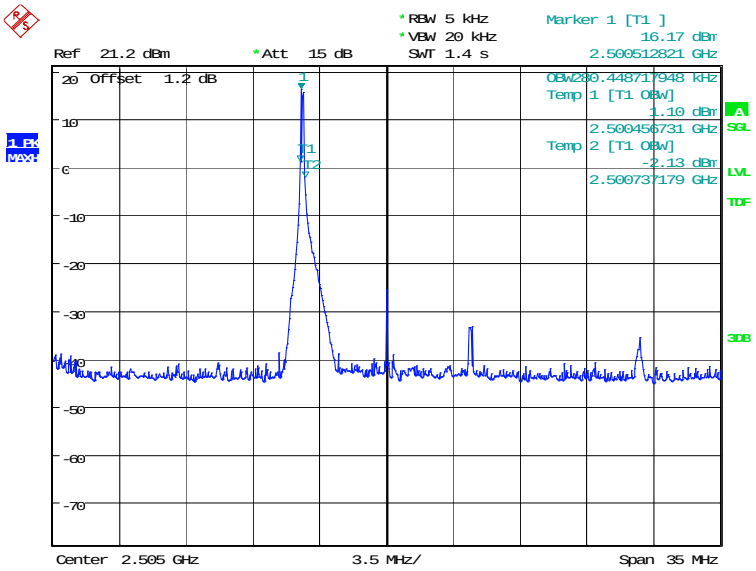
frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116Log_{10}(f/6.1)$ decibels or 50 + 10 $Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + $10Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

A.6.2 Measurement result

Only the worst case result is given below

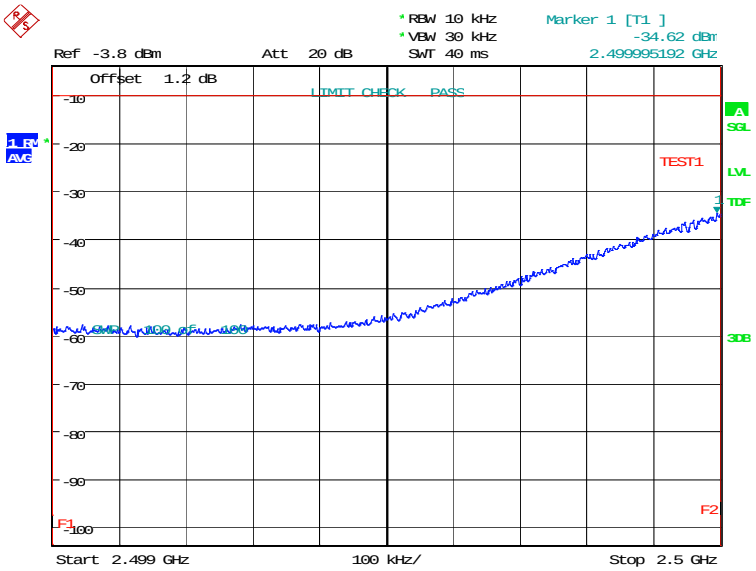
LTE band 7

OBW: 1RB-low_offset

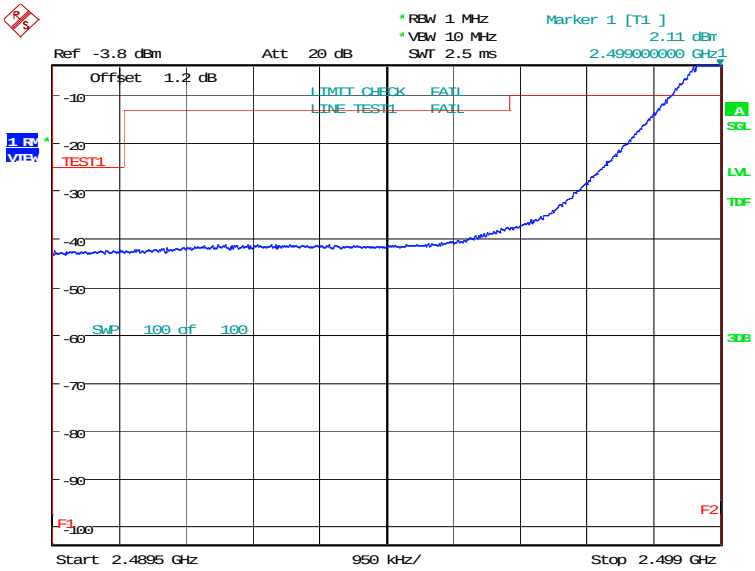


Date: 18.FEB.2020 10:04:07

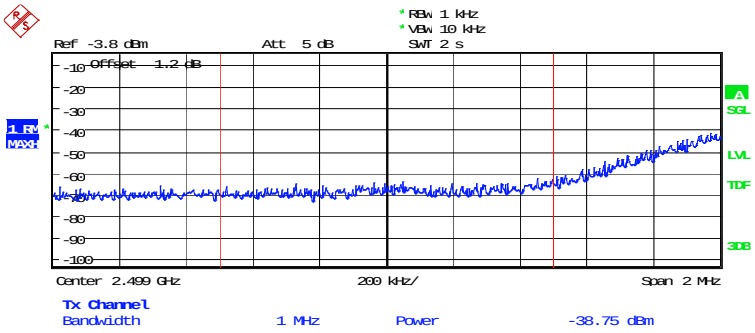
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 18.FEB.2020 10:05:52

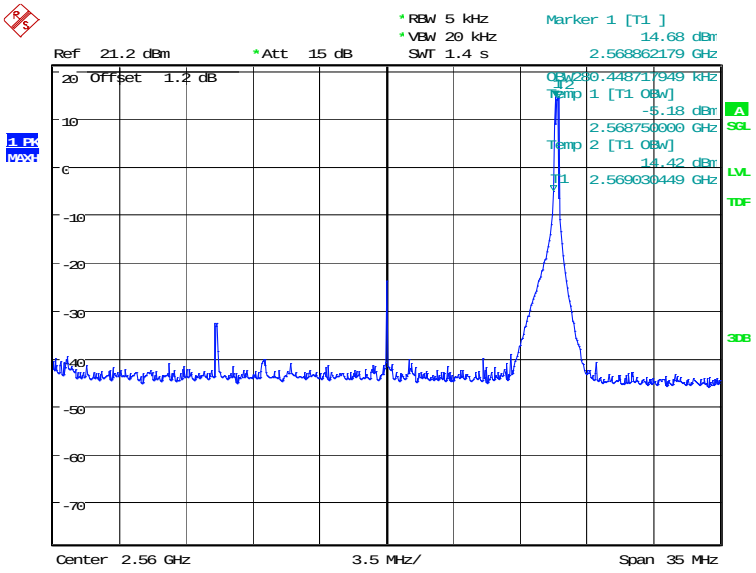


Date: 18.FEB.2020 10:07:33



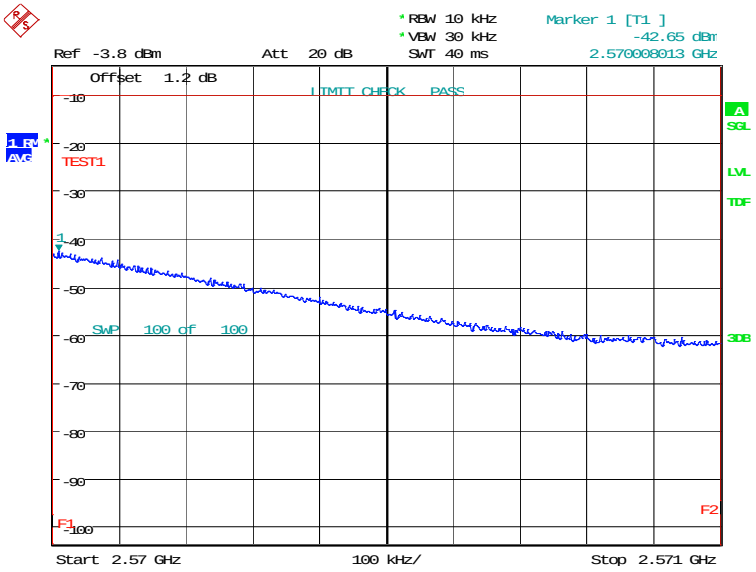
Date: 18.FEB.2020 10:07:44

OBW: 1RB-high_offset

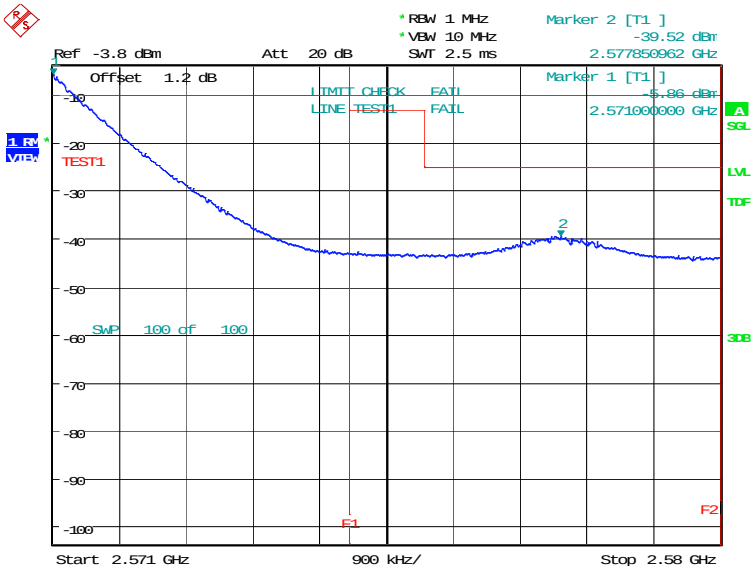


Date: 18.FEB.2020 10:12:46

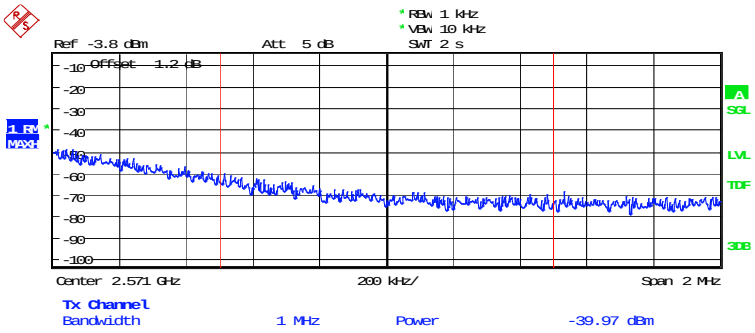
HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 18.FEB.2020 10:14:31

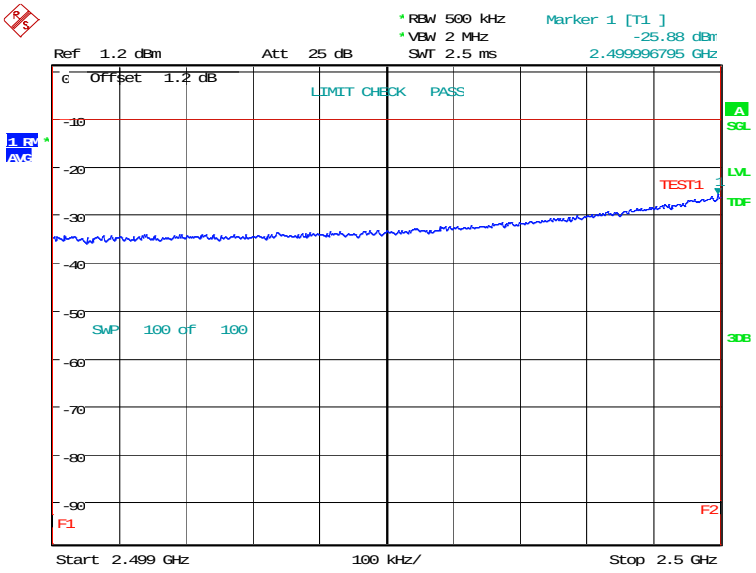


Date: 18.FEB.2020 10:16:15

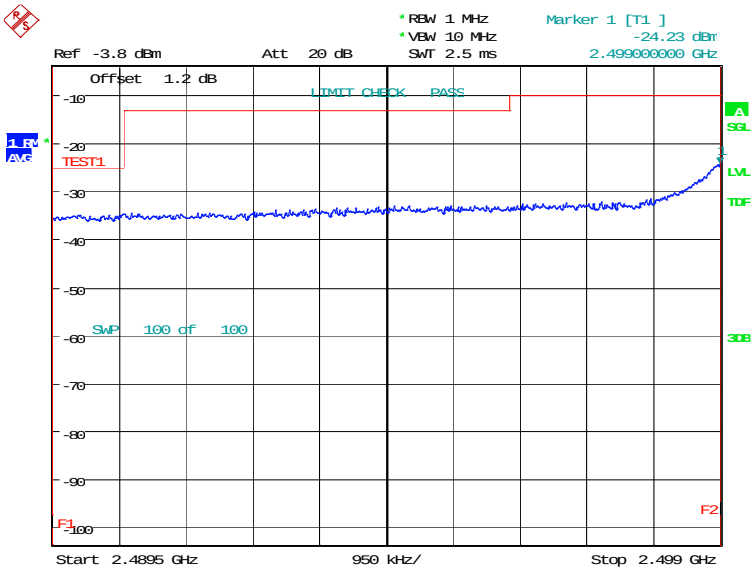


Date: 18.FEB.2020 10:16:26

LOW BAND EDGE BLOCK-20MHz-100%RB

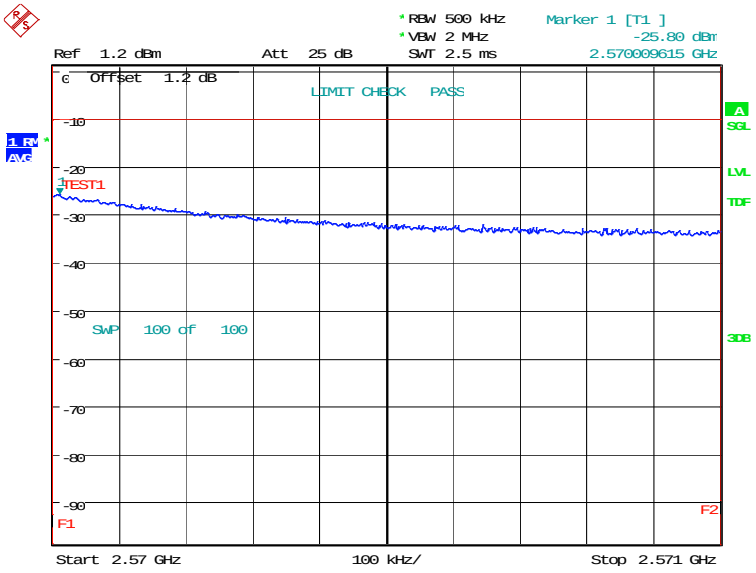


Date: 18.FEB.2020 10:09:47

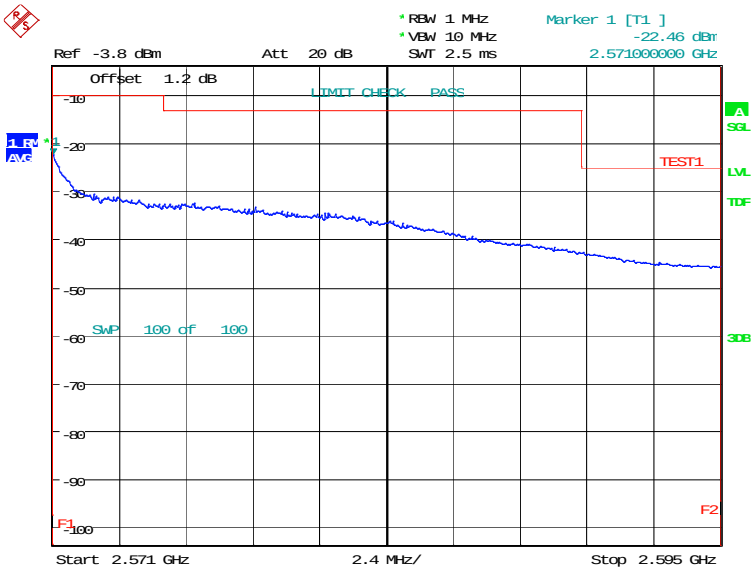


Date: 18.FEB.2020 10:11:25

HIGH BAND EDGE BLOCK-20MHz-100%RB



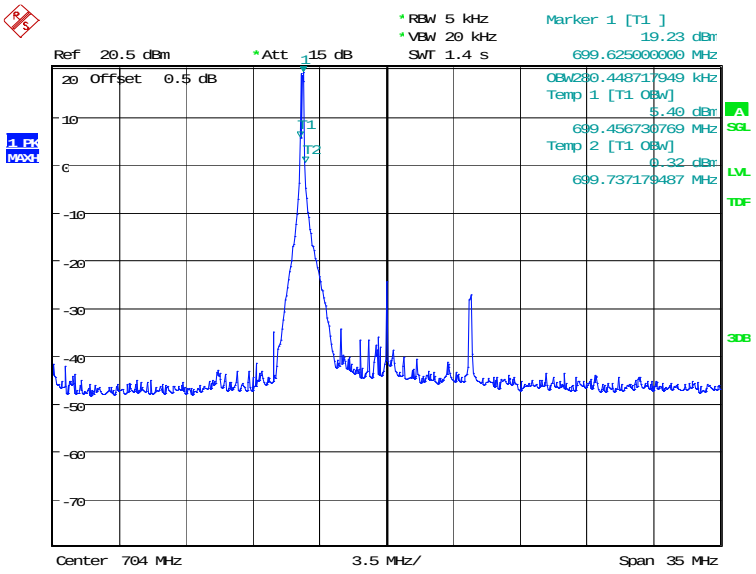
Date: 18.FEB.2020 10:18:21



Date: 18.FEB.2020 10:20:00

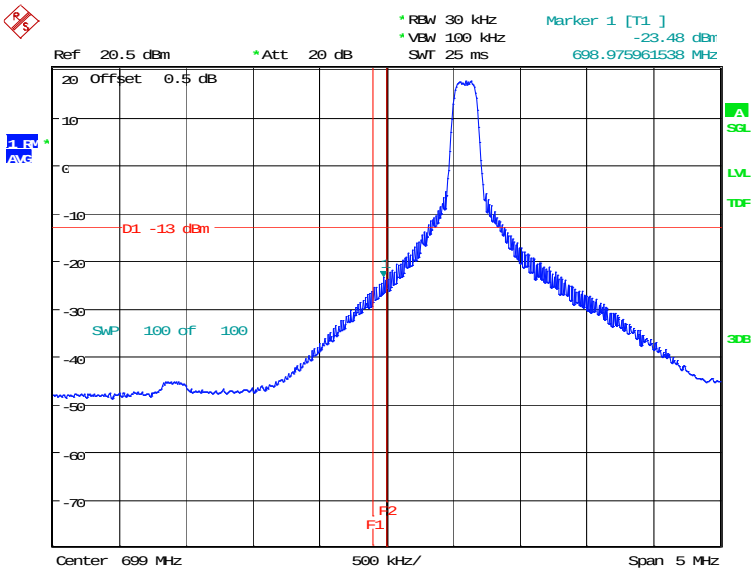
LTE band 12

OBW: 1RB-low_offset



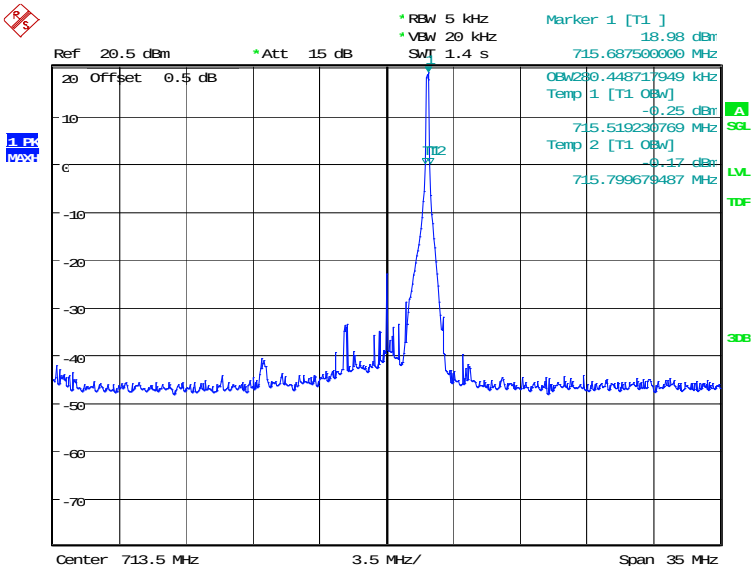
Date: 18.FEB.2020 10:29:24

LOW BAND EDGE BLOCK-1RB-low_offset



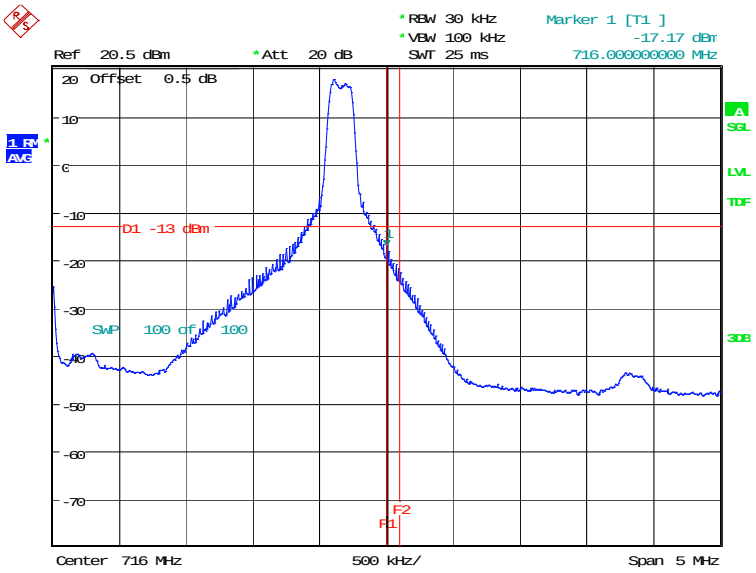
Date: 18.FEB.2020 10:31:02

OBW: 1RB-high_offset



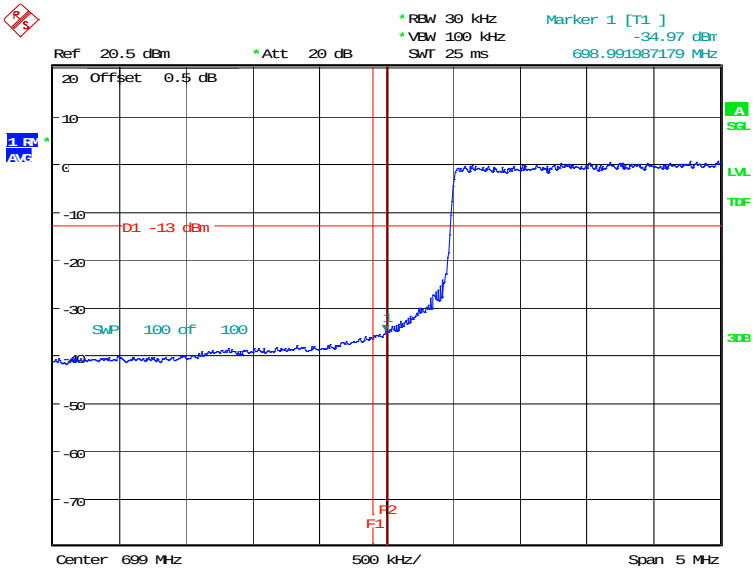
Date: 18.FEB.2020 10:34:54

HIGH BAND EDGE BLOCK-1RB-high_offset



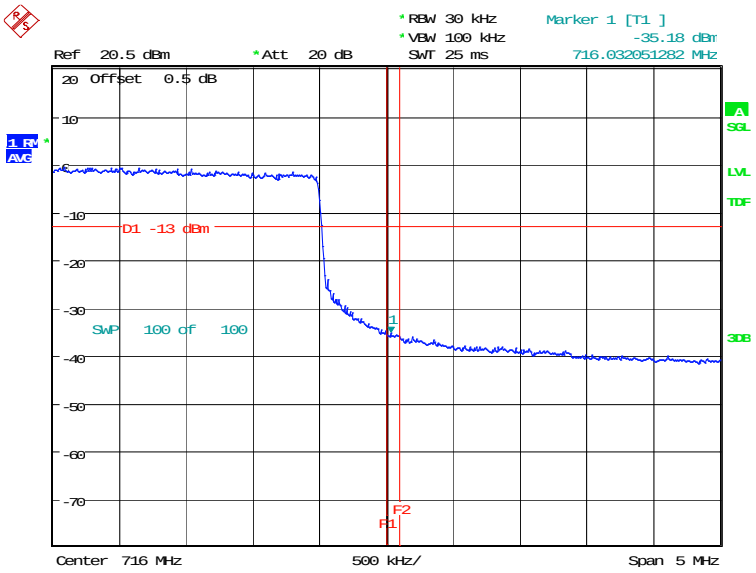
Date: 18.FEB.2020 10:36:32

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 18.FEB.2020 10:32:54

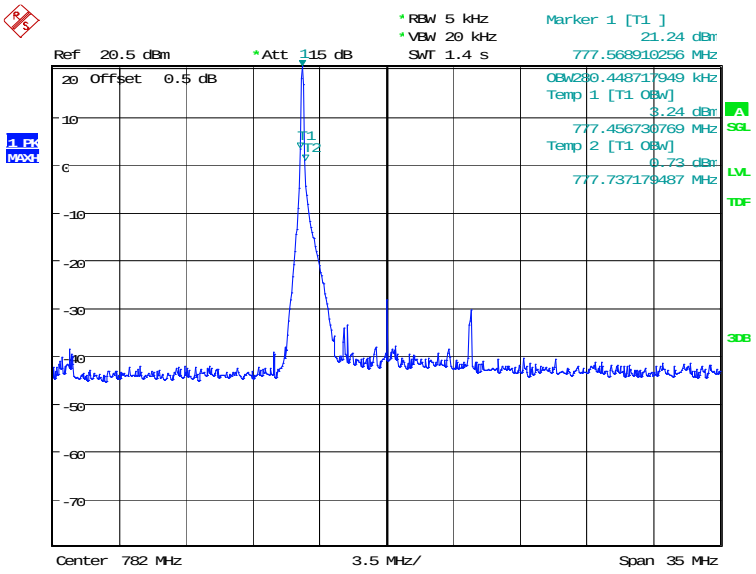
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 18.FEB.2020 10:38:31

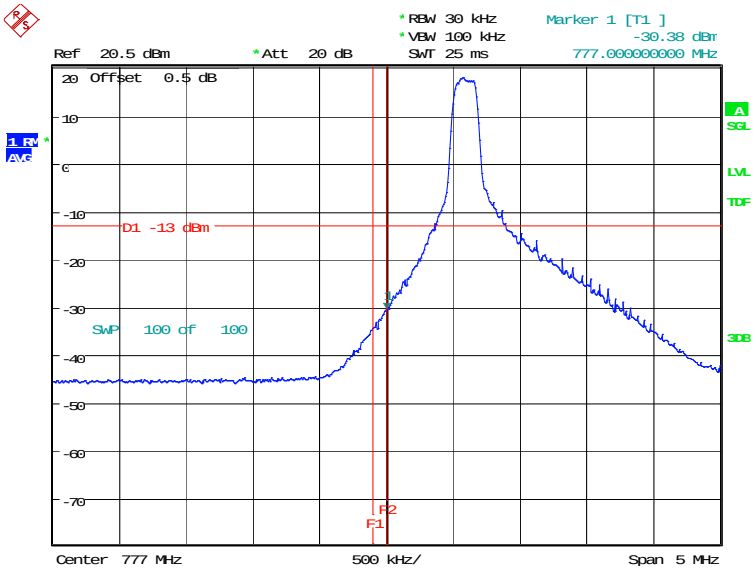
LTE band 13

OBW: 1RB-low_offset

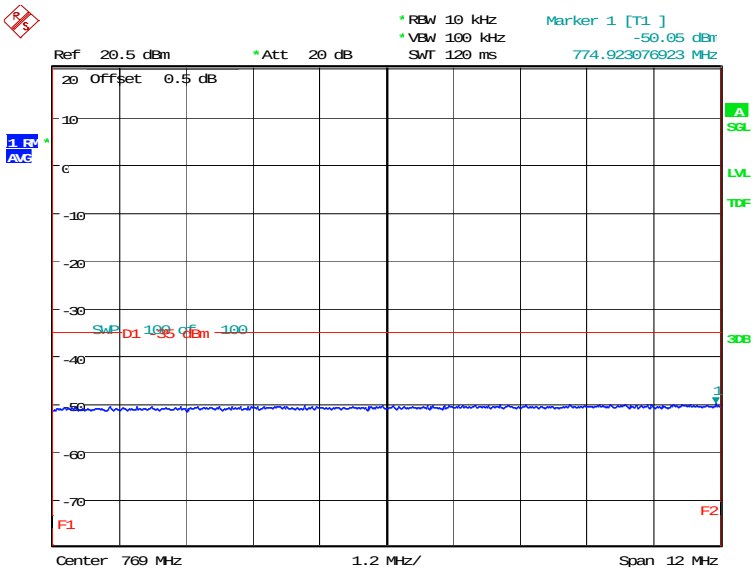


Date: 18.FEB.2020 10:48:30

LOW BAND EDGE BLOCK-1RB-low_offset

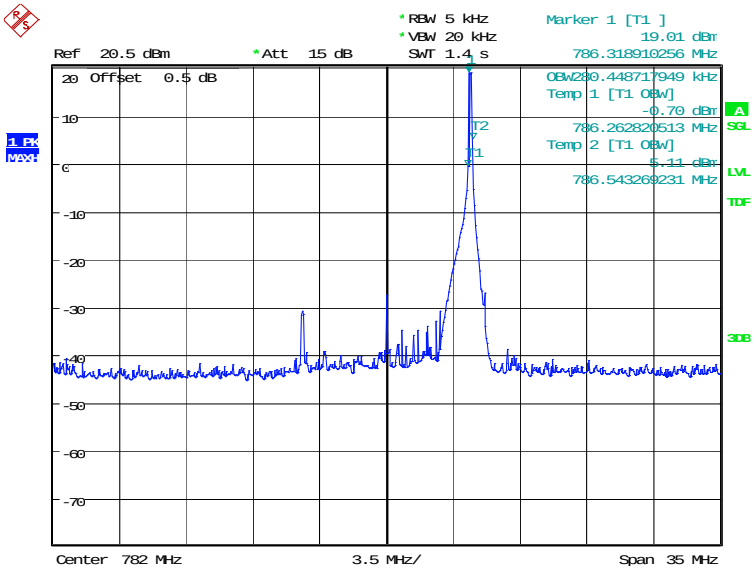


Date: 18.FEB.2020 10:50:08



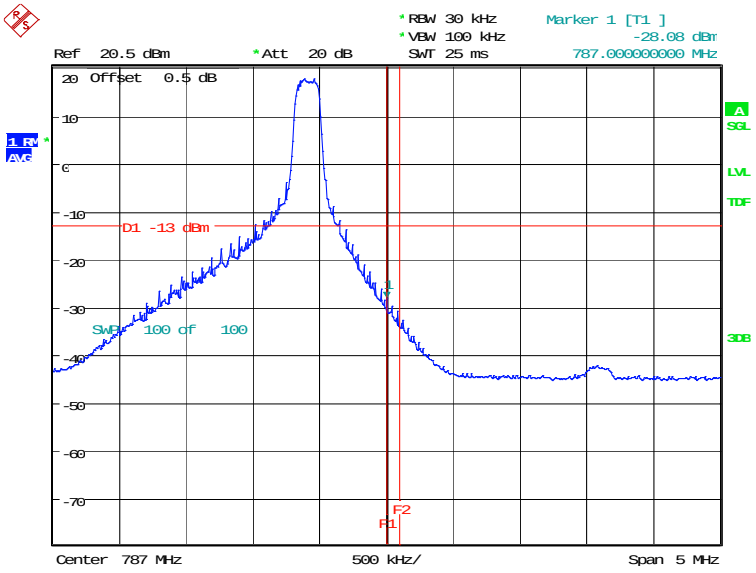
Date: 18.FEB.2020 10:51:45

OBW: 1RB-high_offset

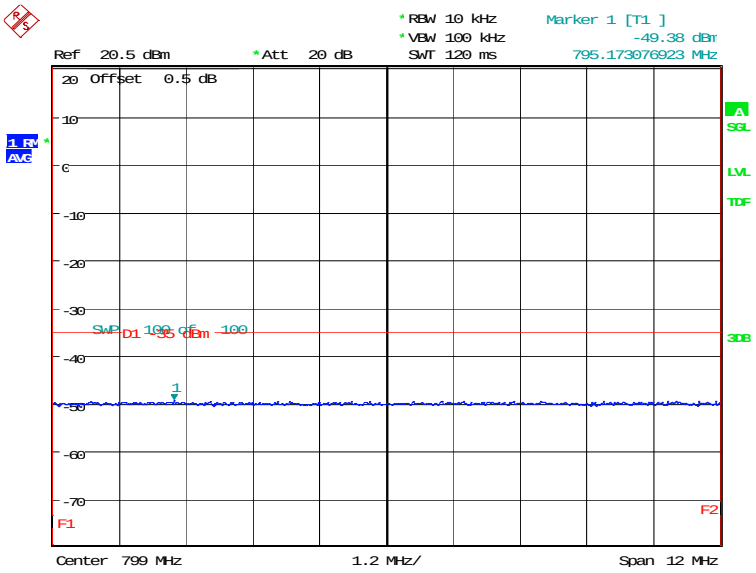


Date: 18.FEB.2020 10:56:33

HIGH BAND EDGE BLOCK-1RB-high_offset

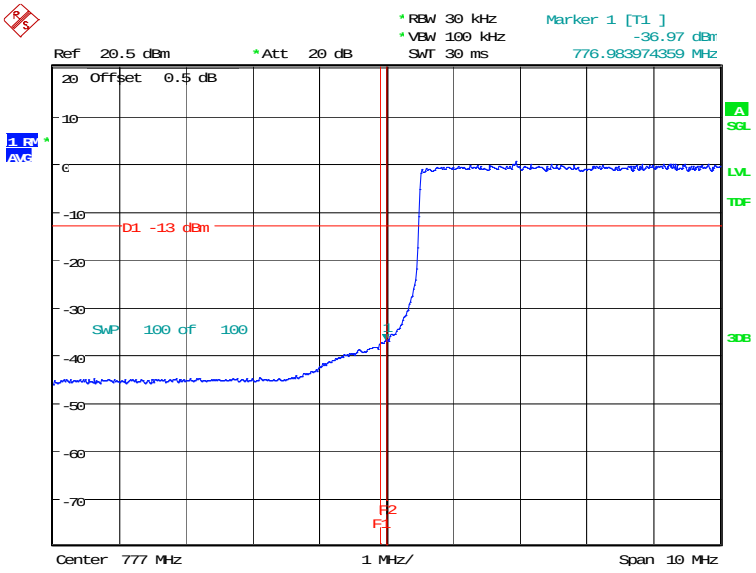


Date: 18.FEB.2020 10:58:11

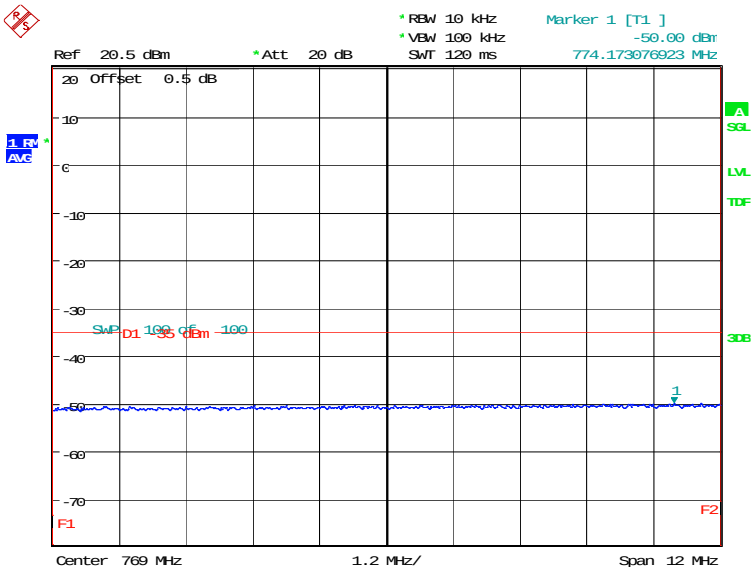


Date: 18.FEB.2020 10:59:49

LOW BAND EDGE BLOCK-10MHz-100%RB

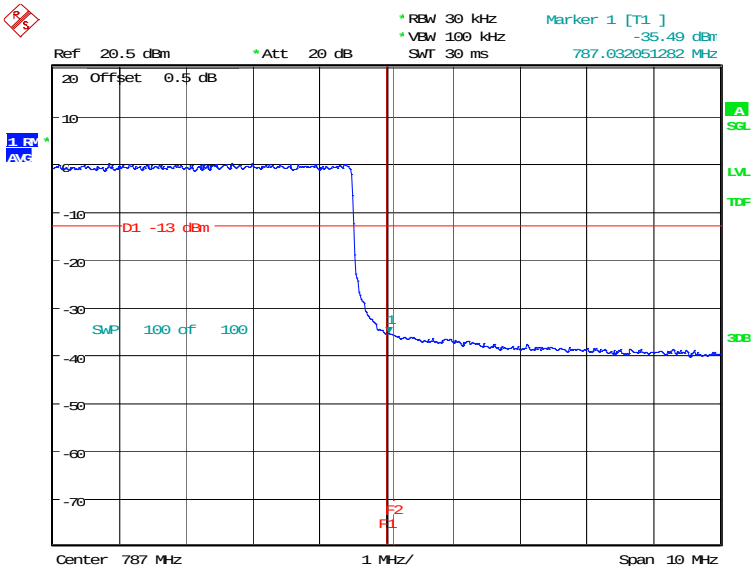


Date: 18.FEB.2020 10:53:37

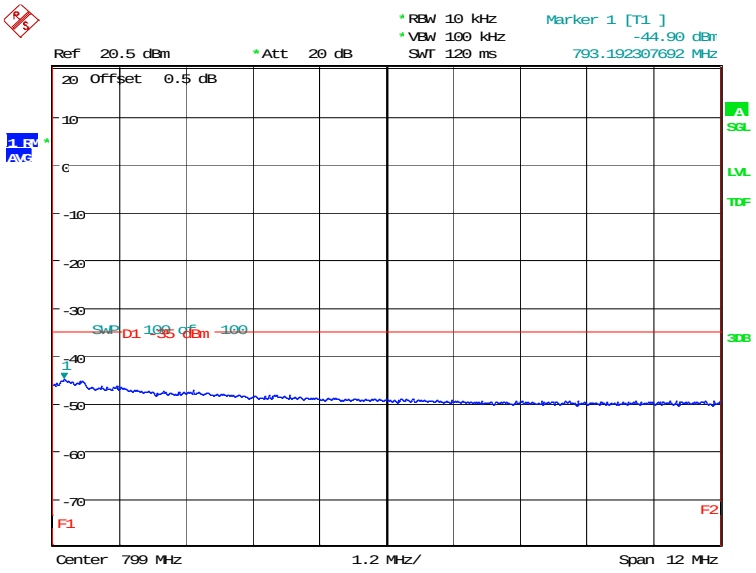


Date: 18.FEB.2020 10:55:15

HIGH BAND EDGE BLOCK-10MHz-100%RB



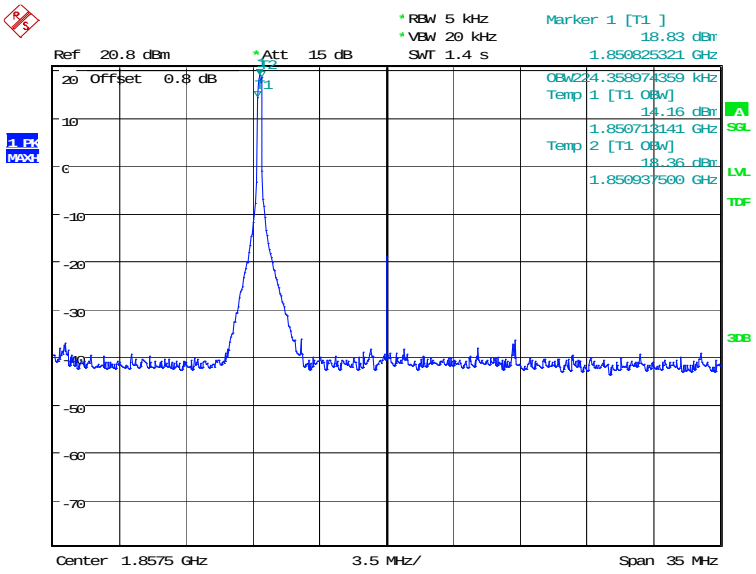
Date: 18.FEB.2020 11:01:40



Date: 18.FEB.2020 11:03:18

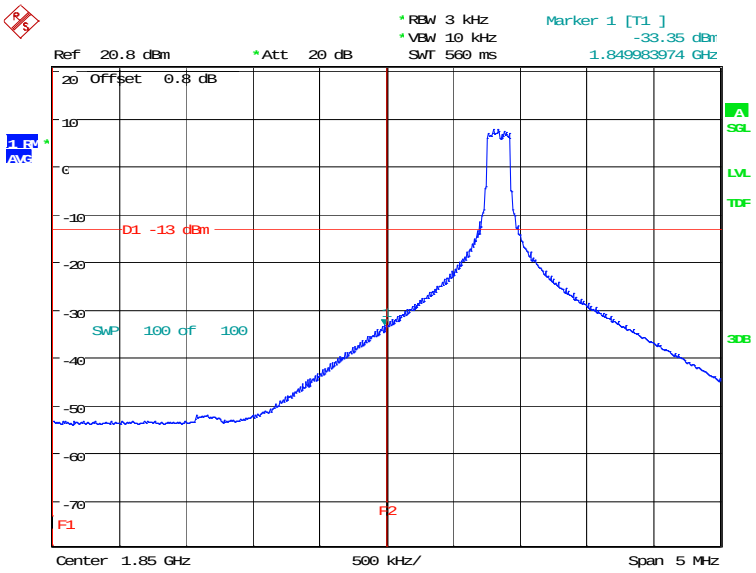
LTE band 25

OBW: 1RB-low_offset



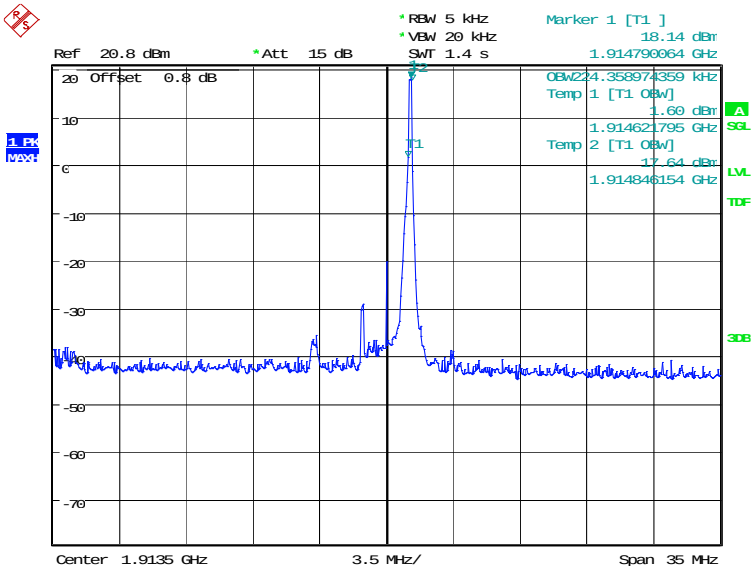
Date: 18.FEB.2020 11:04:45

LOW BAND EDGE BLOCK-1RB-low_offset



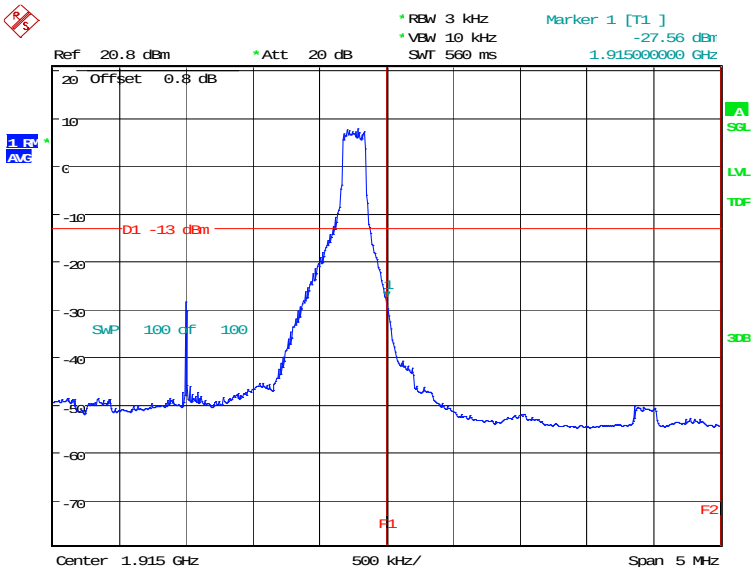
Date: 18.FEB.2020 11:06:23

OBW: 1RB-high_offset



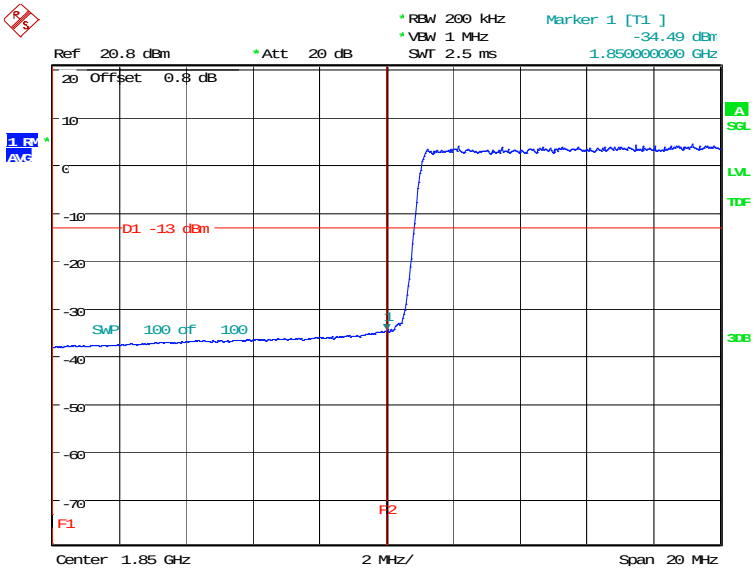
Date: 18.FEB.2020 11:10:25

HIGH BAND EDGE BLOCK-1RB-high_offset



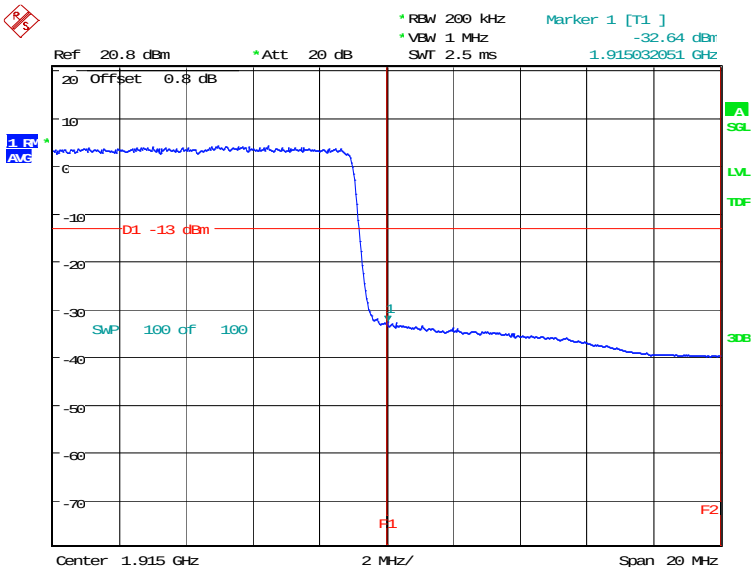
Date: 18.FEB.2020 11:12:03

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 18.FEB.2020 11:08:22

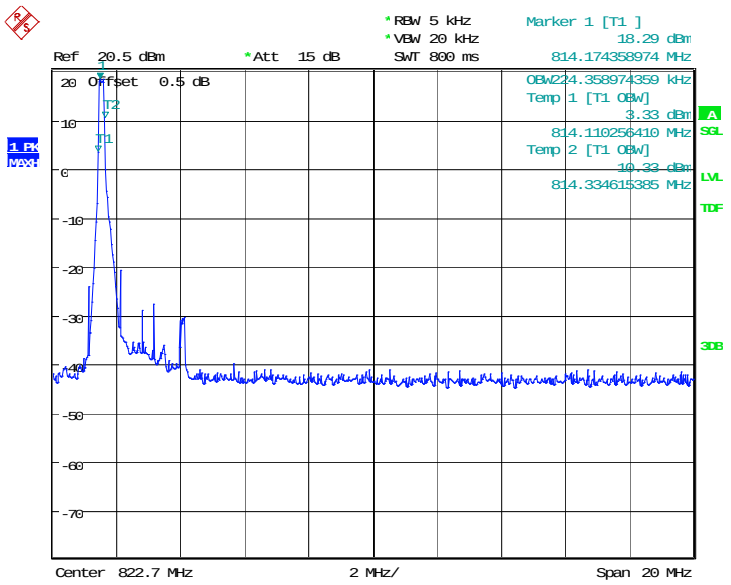
HIGH BAND EDGE BLOCK-20MHz-100%RB



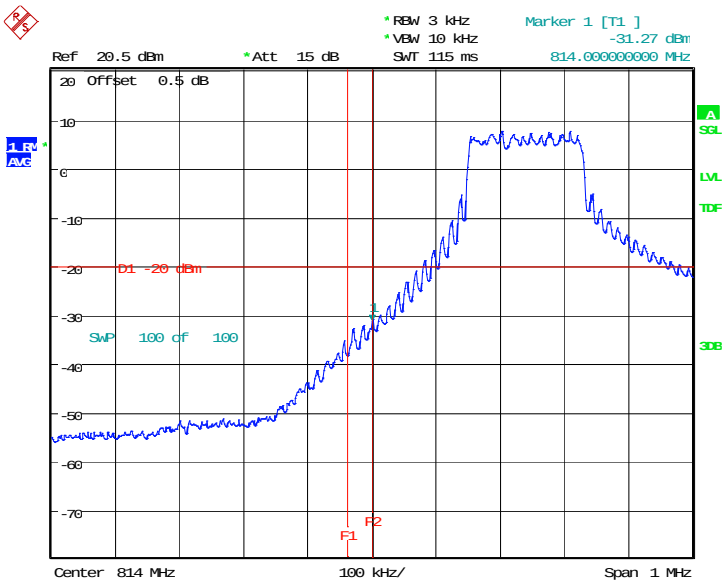
Date: 18.FEB.2020 11:14:02

LTE band 26(814MHz~824MHz)

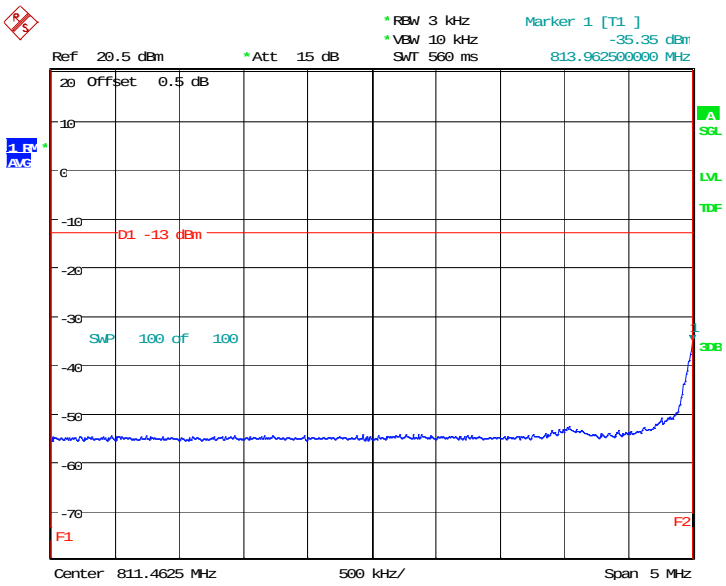
OBW: 1RB-low_offset



LOW BAND EDGE BLOCK-1RB-low_offset

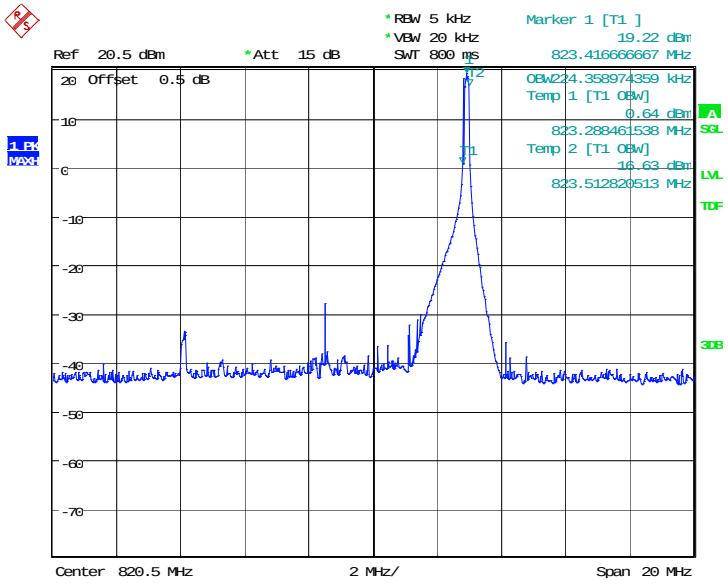


LOW Emission Mask -1RB-low_offset



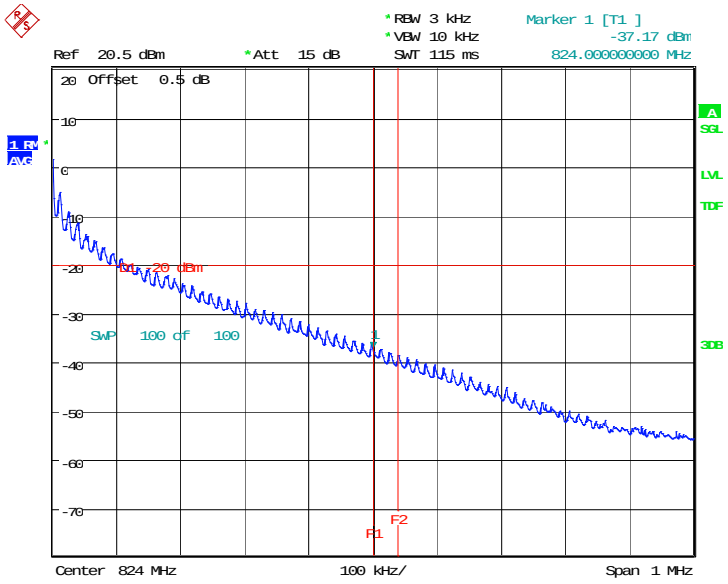
Date: 28.FEB.2020 14:24:24

OBW: 1RB-high_offset



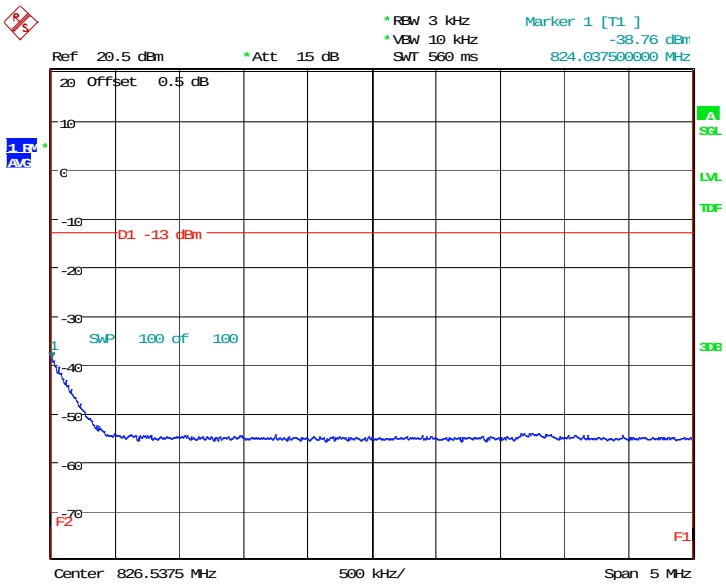
Date: 28.FEB.2020 14:29:37

HIGH BAND EDGE BLOCK-1RB-high_offset

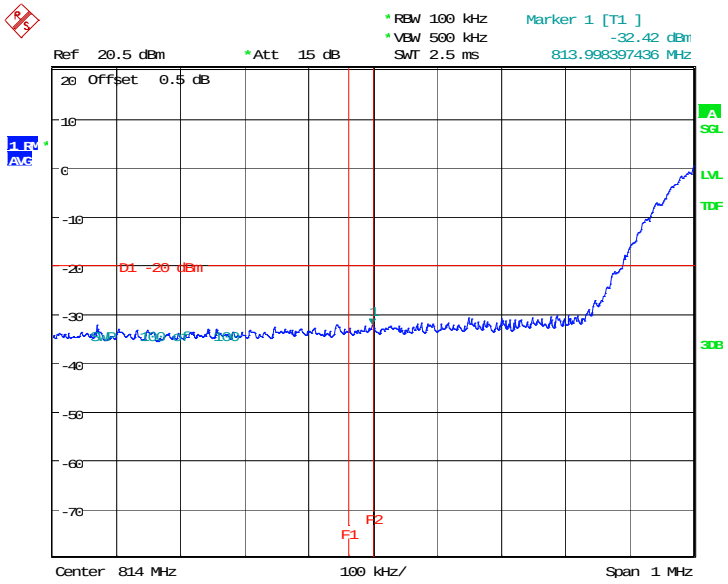


Date: 28.FEB.2020 14:31:33

HIGH Emission Mask -1RB-high_offset

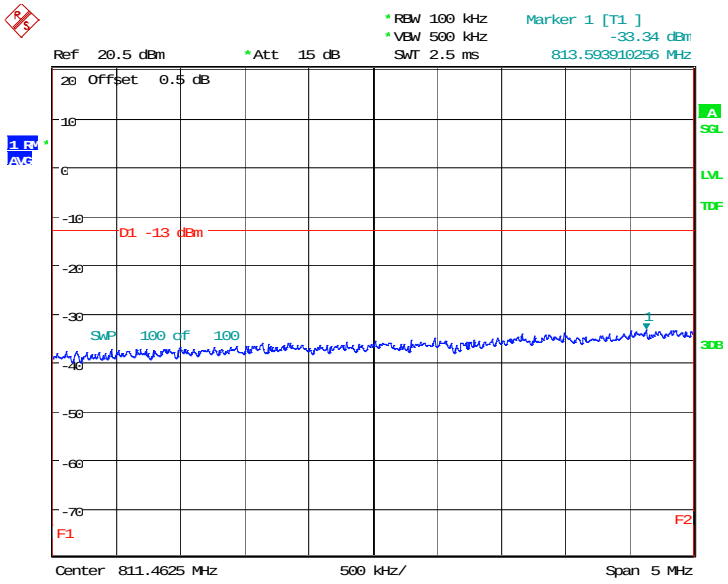


LOW Emission Mask -10MHz-100%RB



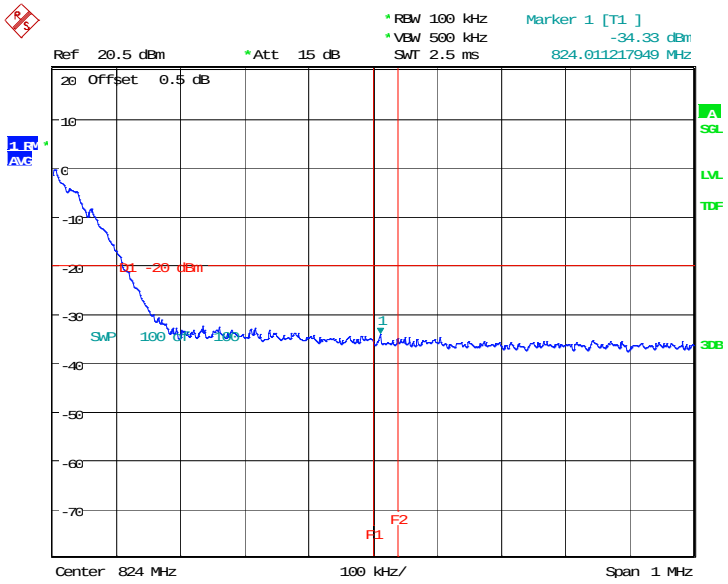
Date: 28.FEB.2020 14:26:31

LOW BAND EDGE BLOCK-10MHz-100%RB



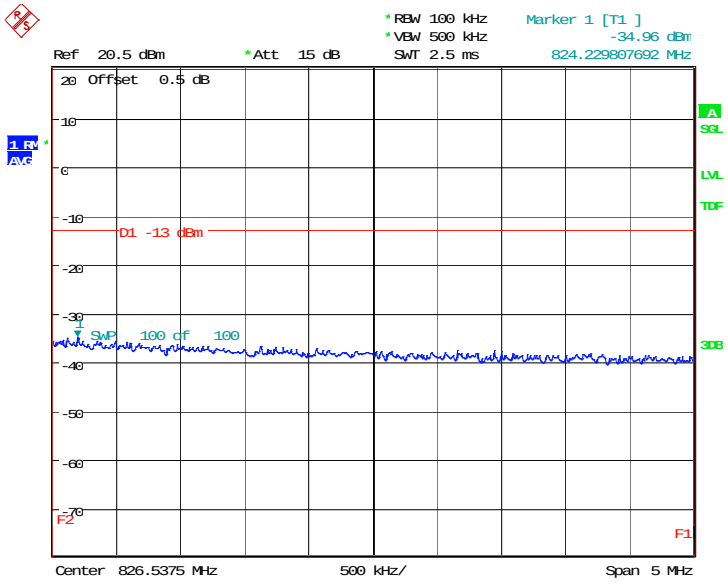
Date: 28.FEB.2020 14:28:18

HIGH Emission Mask -10MHz-100%RB



Date: 28.FEB.2020 14:36:14

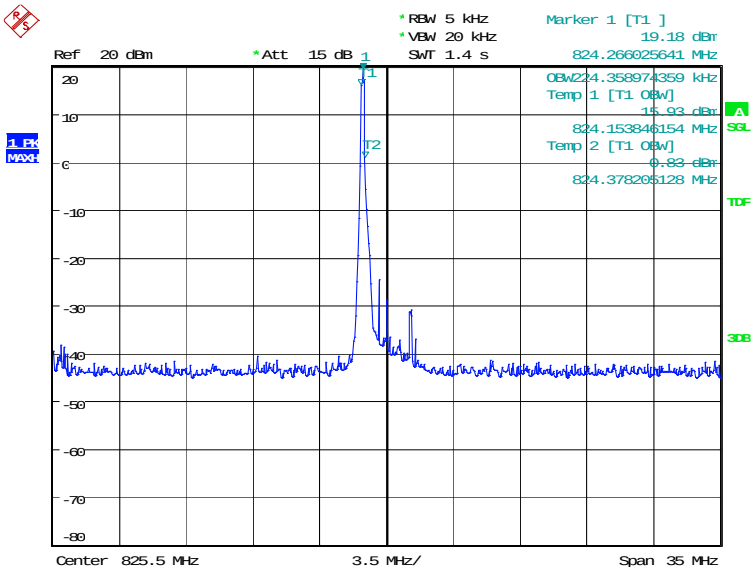
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 28.FEB.2020 14:38:00

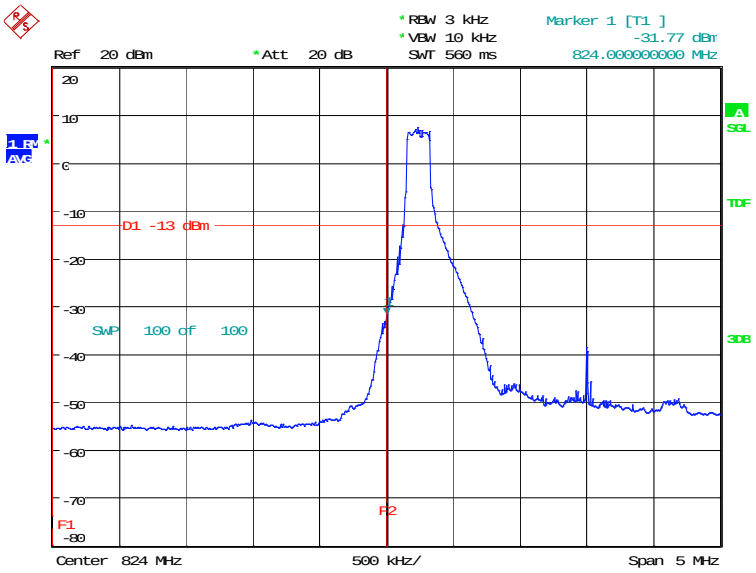
LTE band 26(824MHz~849MHz)

OBW: 1RB-low_offset



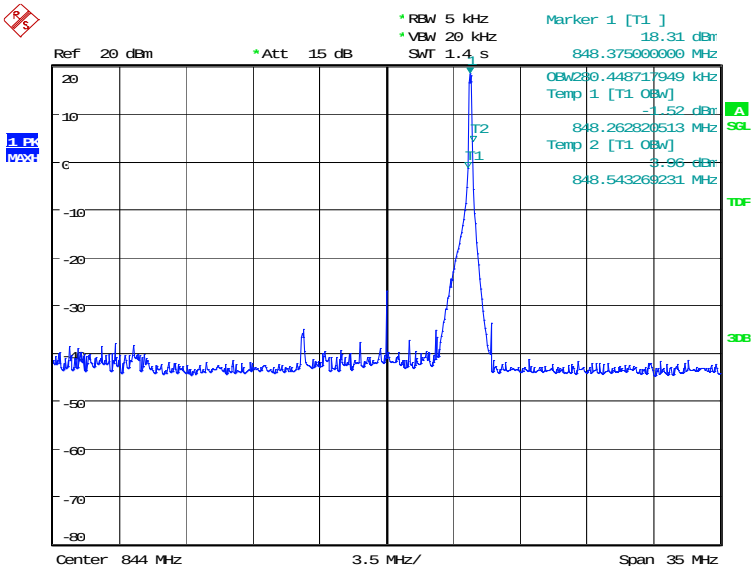
Date: 18.FEB.2020 18:52:17

LOW BAND EDGE BLOCK-1RB-low_offset



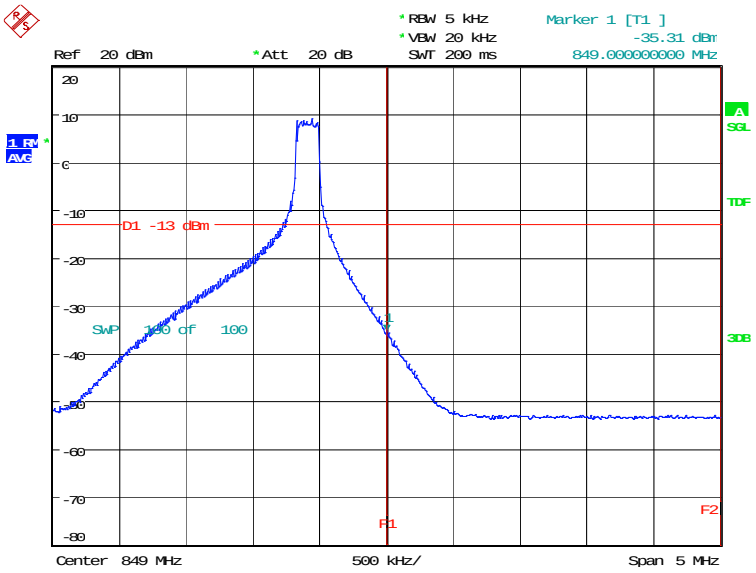
Date: 18.FEB.2020 18:53:55

OBW: 1RB-high_offset



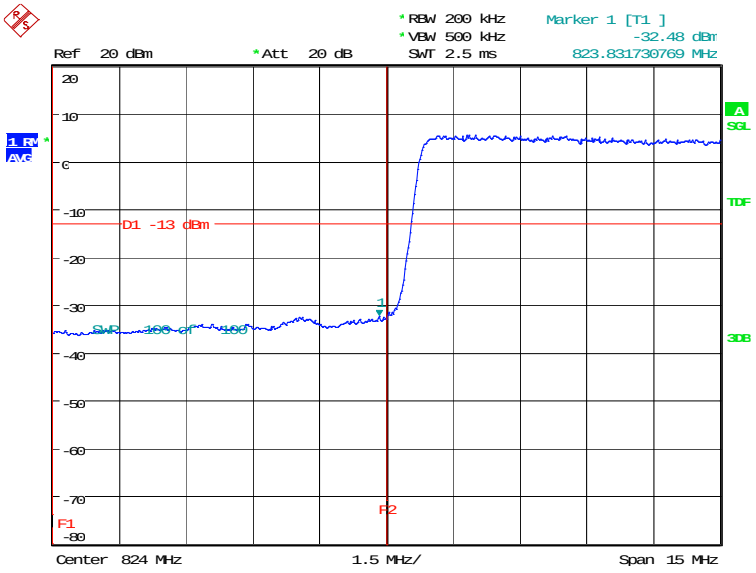
Date: 18.FEB.2020 18:57:54

HIGH BAND EDGE BLOCK-1RB-high_offset



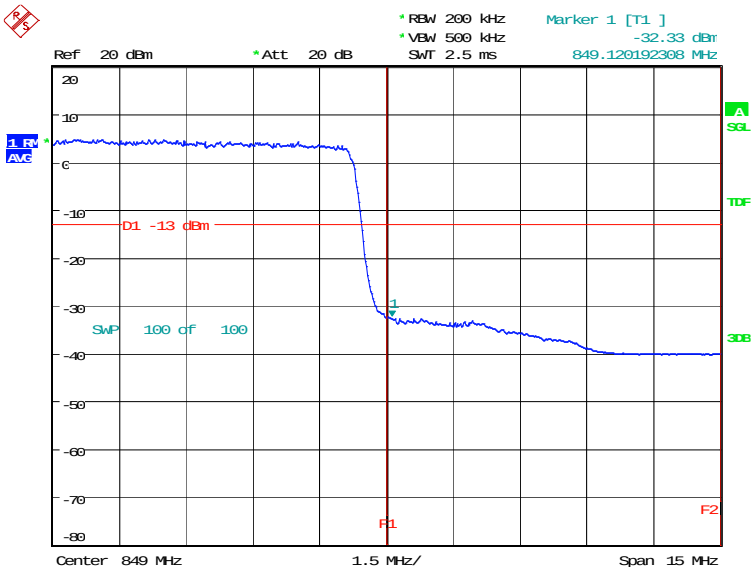
Date: 18.FEB.2020 18:59:33

LOW BAND EDGE BLOCK-15MHz-100%RB



Date: 18.FEB.2020 18:55:55

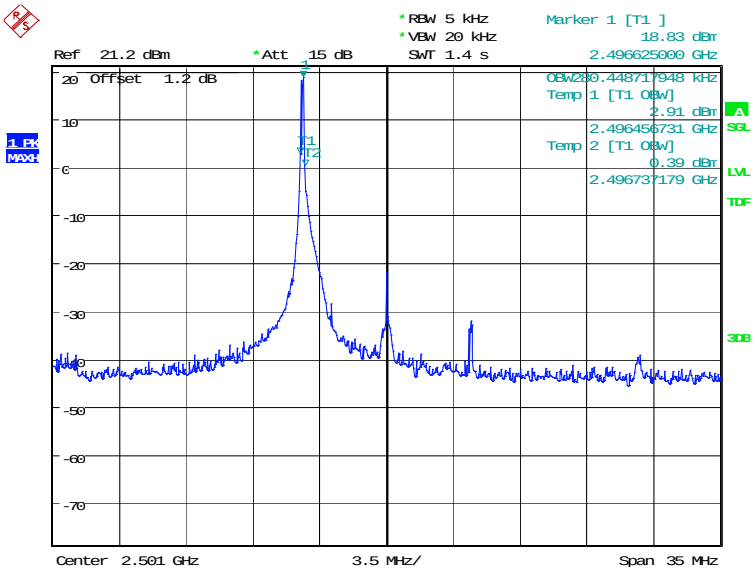
HIGH BAND EDGE BLOCK-15MHz-100%RB



Date: 18.FEB.2020 19:01:32

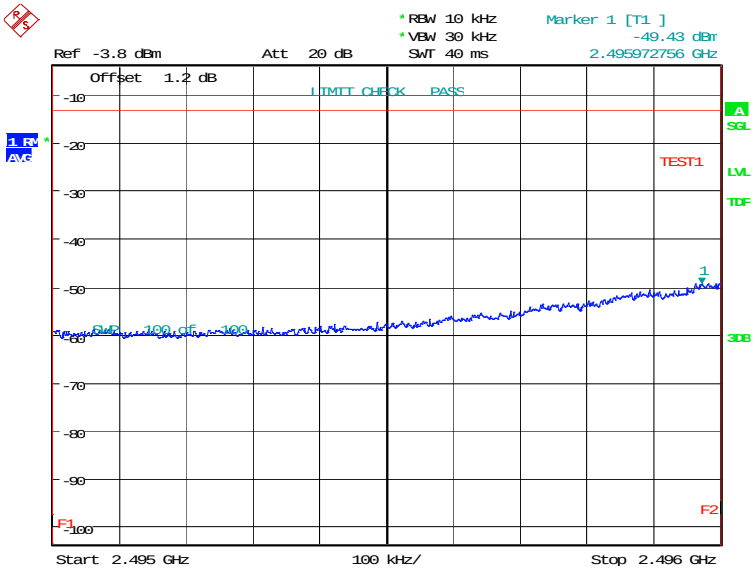
LTE band 41-HPUE

OBW: 1RB-low_offset

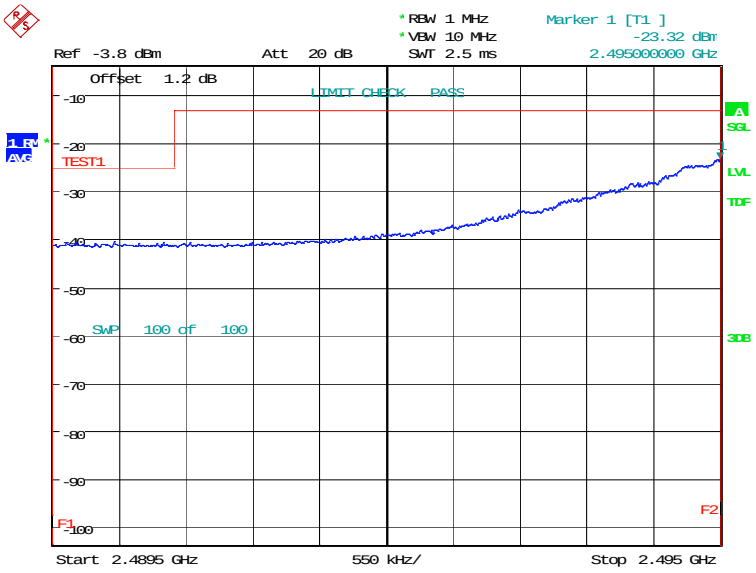


Date: 18.FEB.2020 12:22:00

LOW BAND EDGE BLOCK-1RB-low_offset

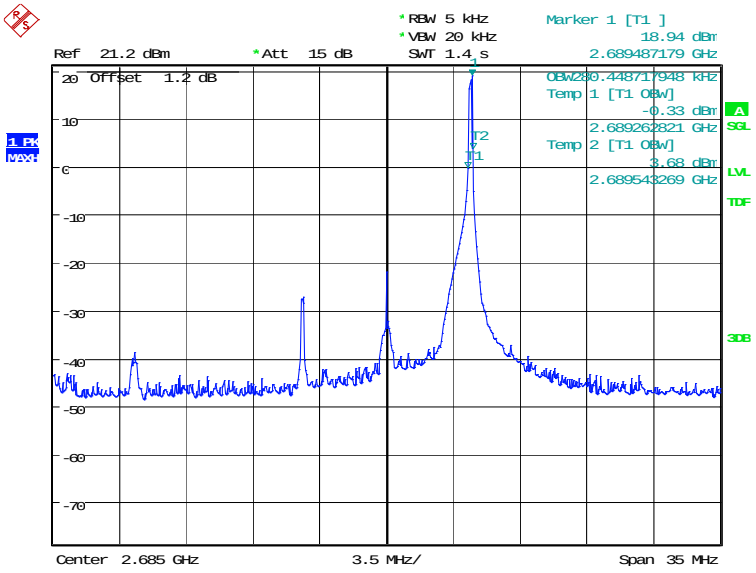


Date: 18.FEB.2020 12:23:45



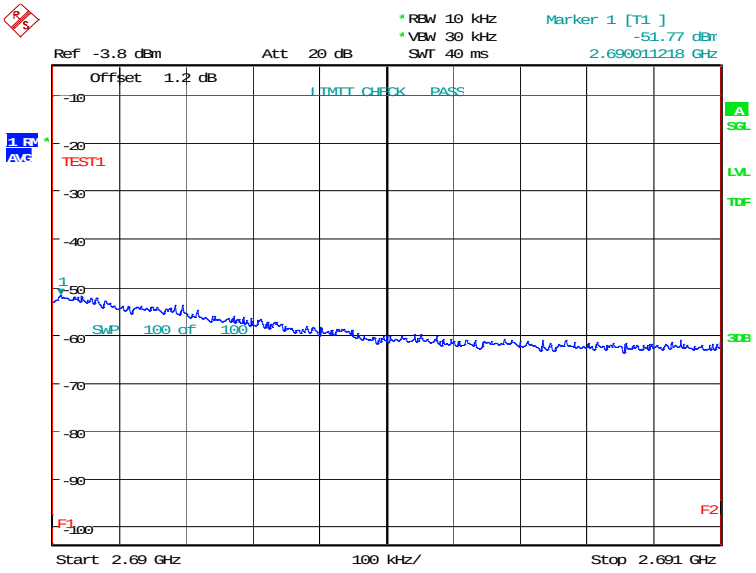
Date: 18.FEB.2020 12:25:24

OBW: 1RB-high_offset

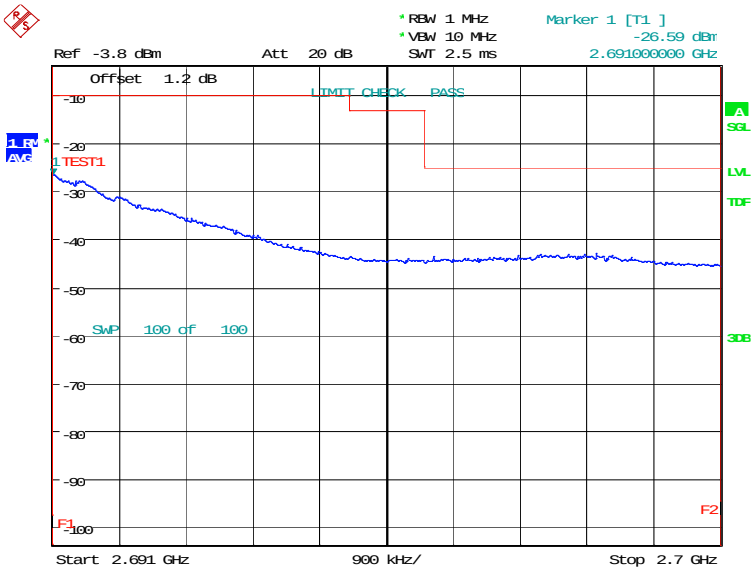


Date: 18.FEB.2020 12:34:22

HIGH BAND EDGE BLOCK-1RB-high_offset

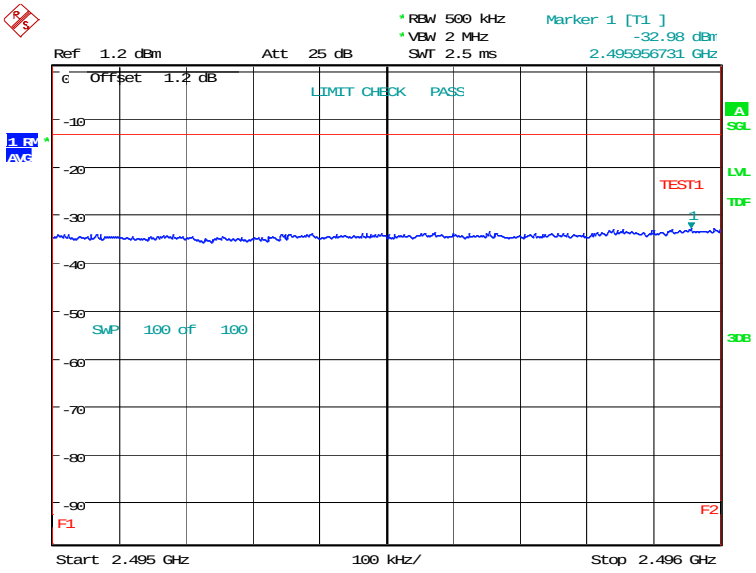


Date: 18.FEB.2020 12:36:07

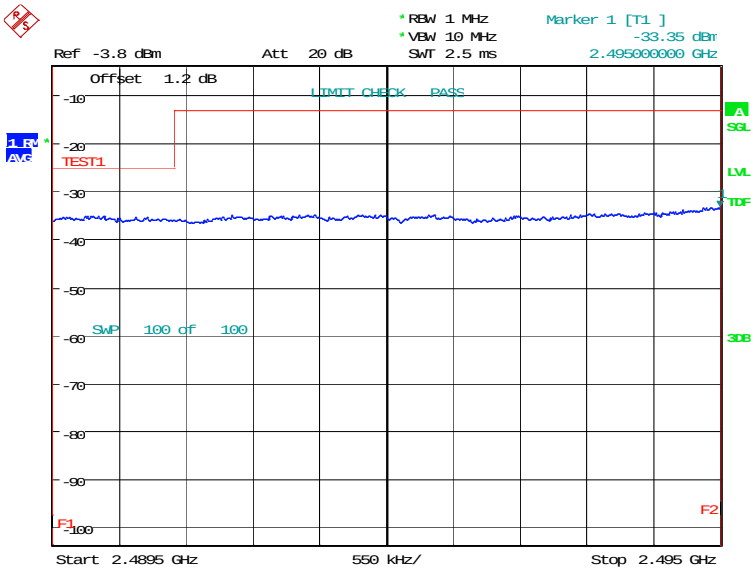


Date: 18.FEB.2020 12:37:46

LOW BAND EDGE BLOCK-20MHz-100%RB

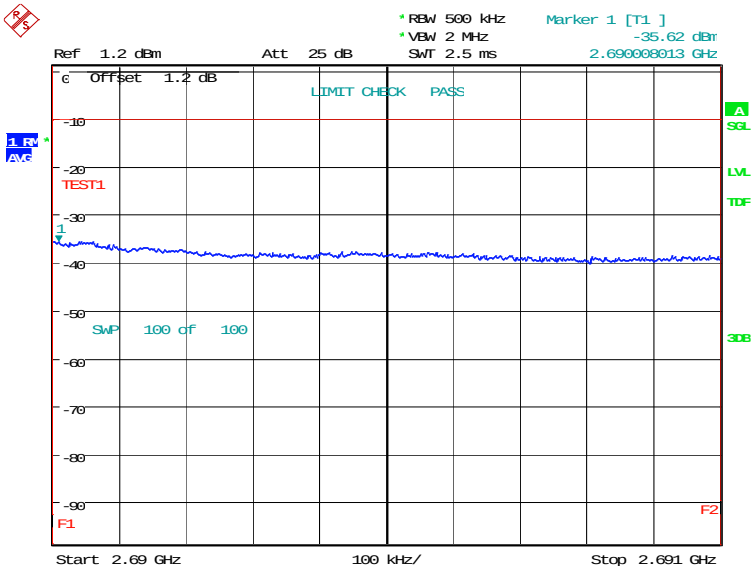


Date: 18.FEB.2020 12:29:06

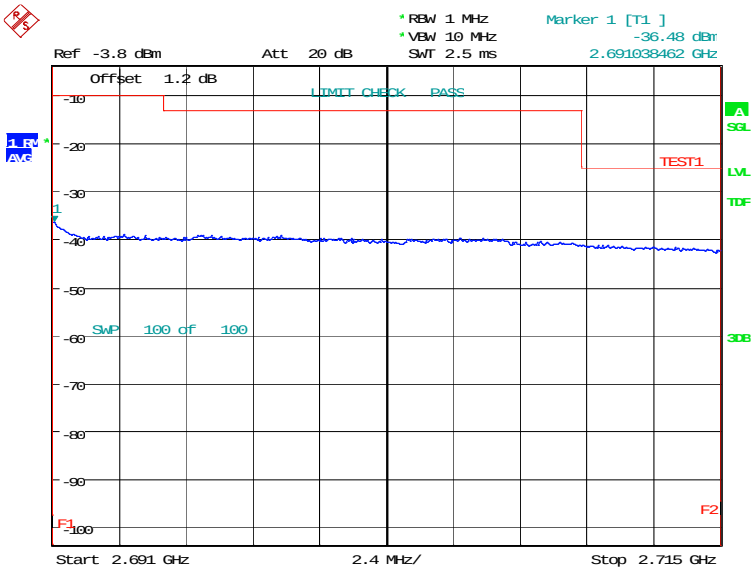


Date: 18.FEB.2020 12:30:45

HIGH BAND EDGE BLOCK-20MHz-100%RB



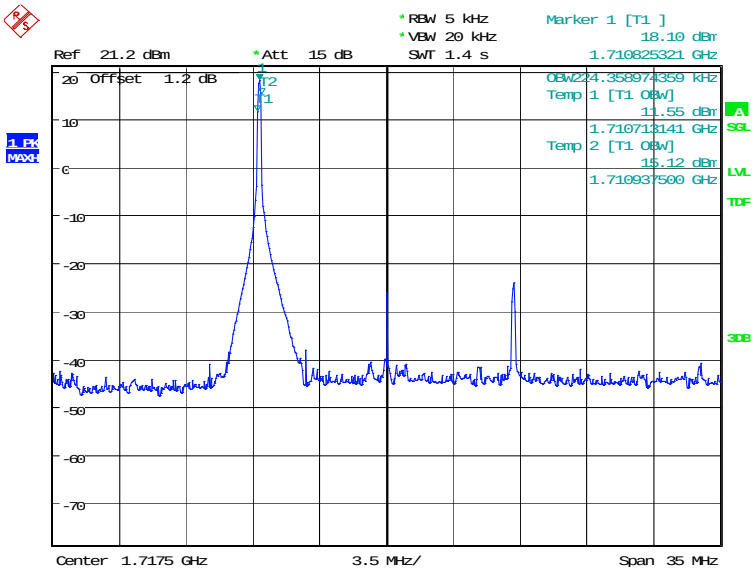
Date: 18.FEB.2020 12:41:23



Date: 18.FEB.2020 12:43:02

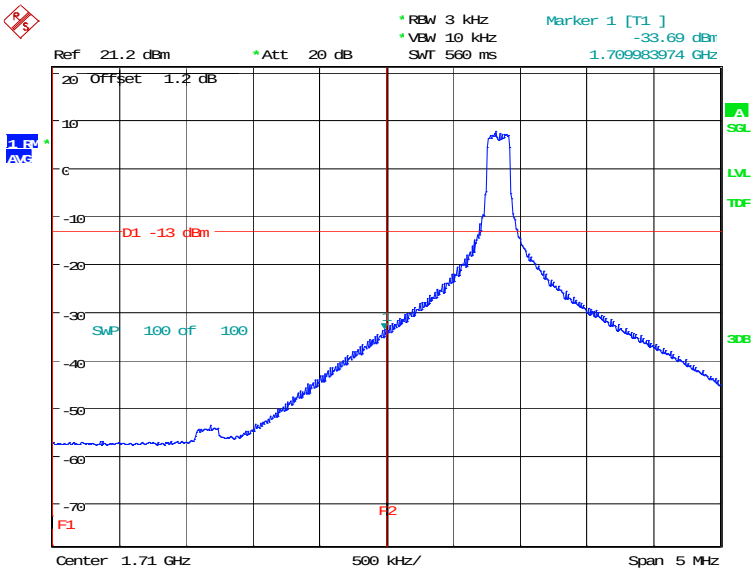
LTE band 66

OBW: 1RB-low_offset



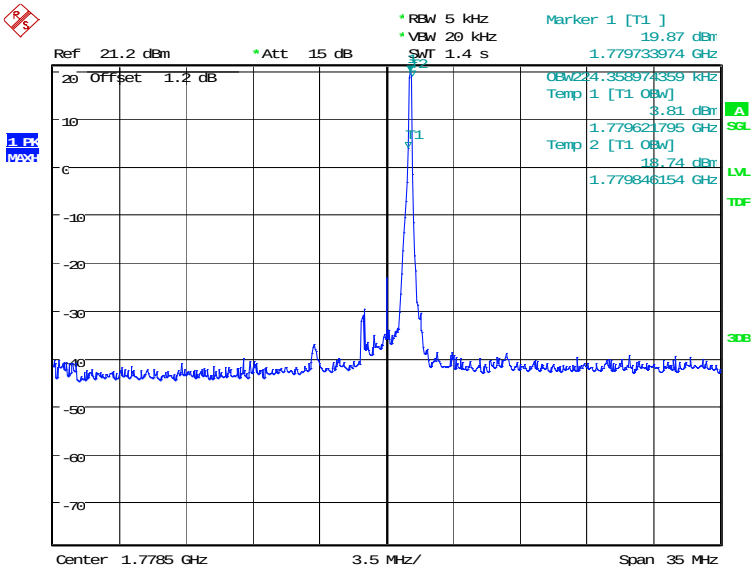
Date: 18.FEB.2020 12:01:05

LOW BAND EDGE BLOCK-1RB-low_offset



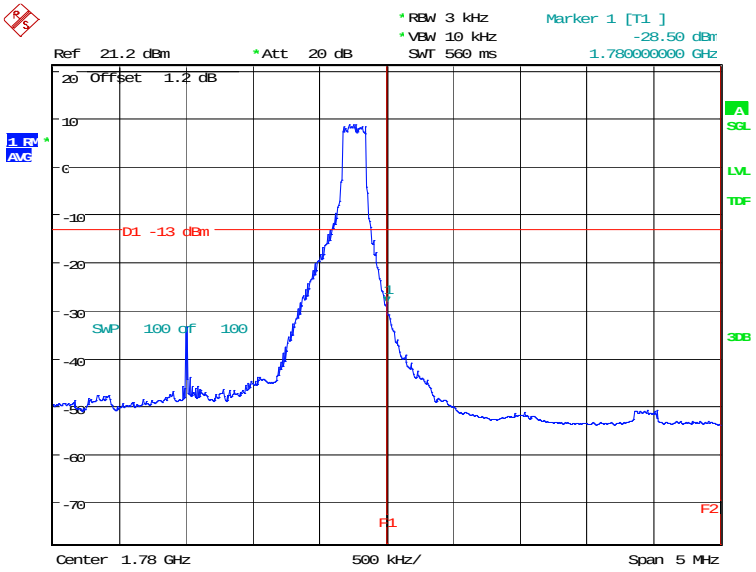
Date: 18.FEB.2020 12:02:43

OBW: 1RB-high_offset



Date: 18.FEB.2020 12:06:03

HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 18.FEB.2020 12:07:41