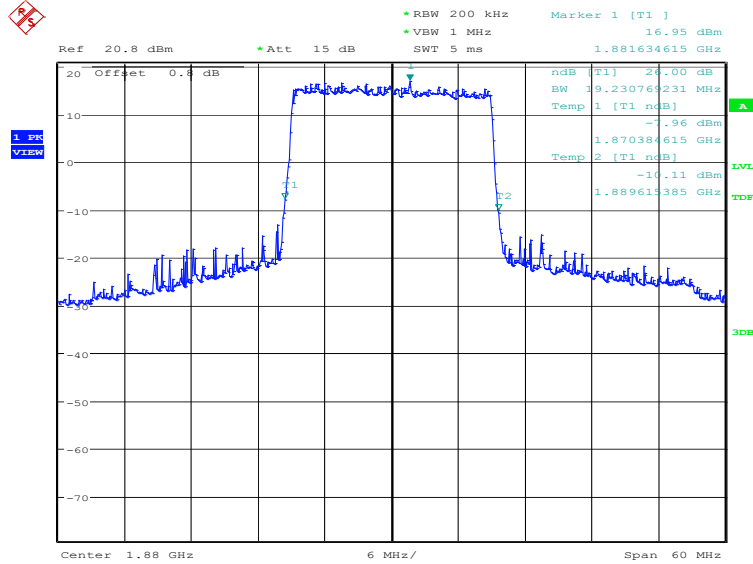


LTE band 2, 20MHz (-26dBc)

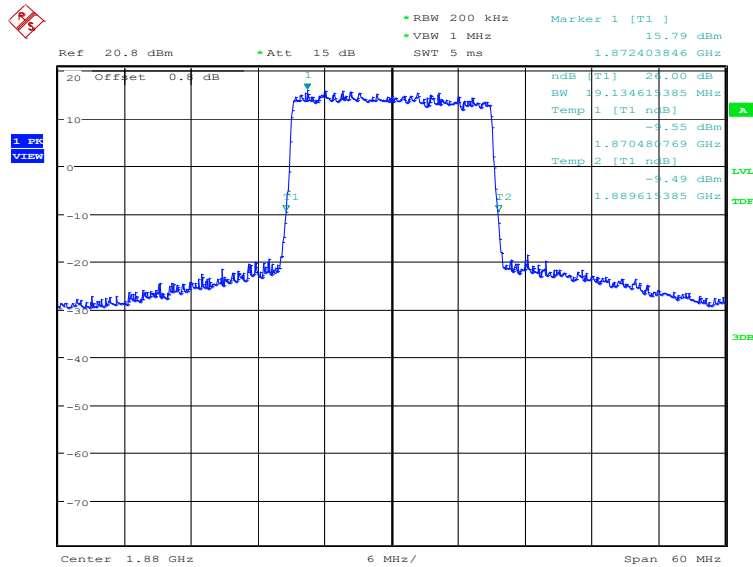
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1880.0	QPSK	16QAM
	19230.77	19134.62

LTE band 2, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 20:51:40

LTE band 2, 20MHz Bandwidth, 16QAM (-26dBc BW)

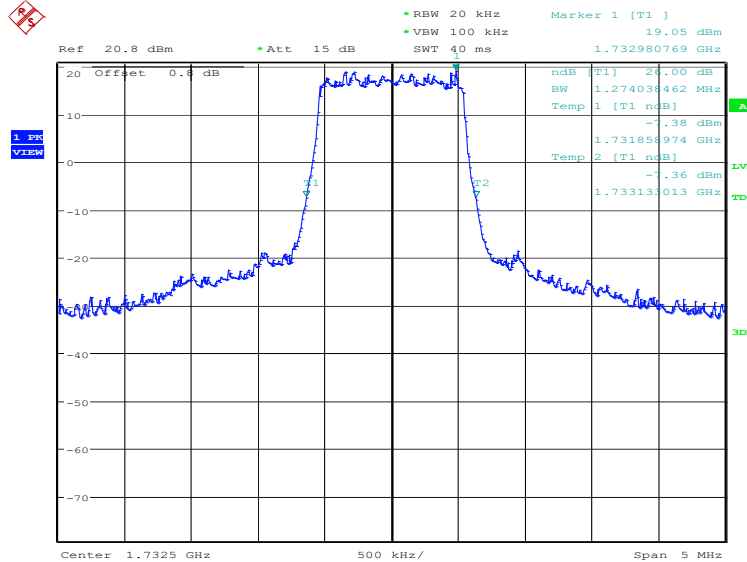


Date: 25.MAR.2021 20:52:20

LTE band 4, 1.4MHz (-26dBc)

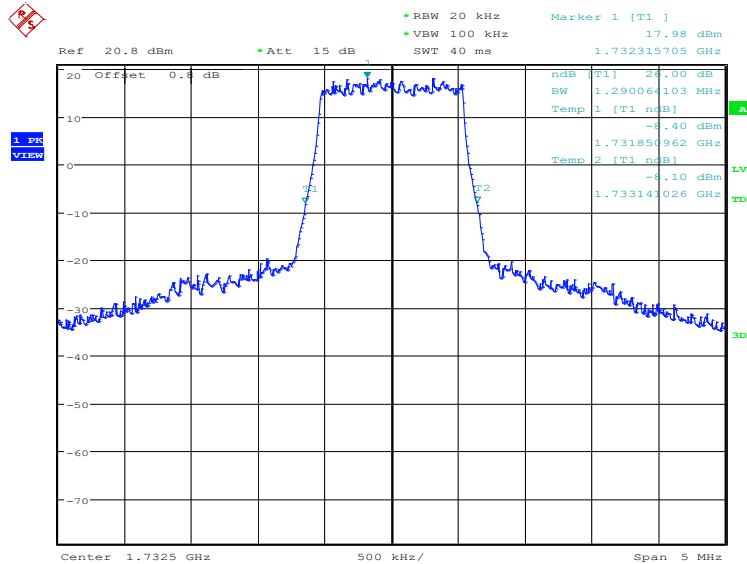
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	1274.04	1290.06

LTE band 4, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.APR.2021 16:59:48

LTE band 4, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

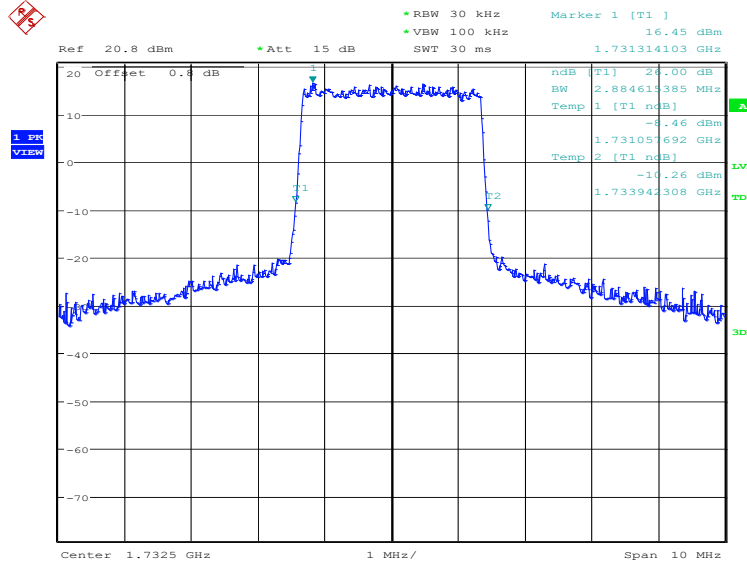


Date: 25.APR.2021 17:00:28

LTE band 4, 3MHz (-26dBc)

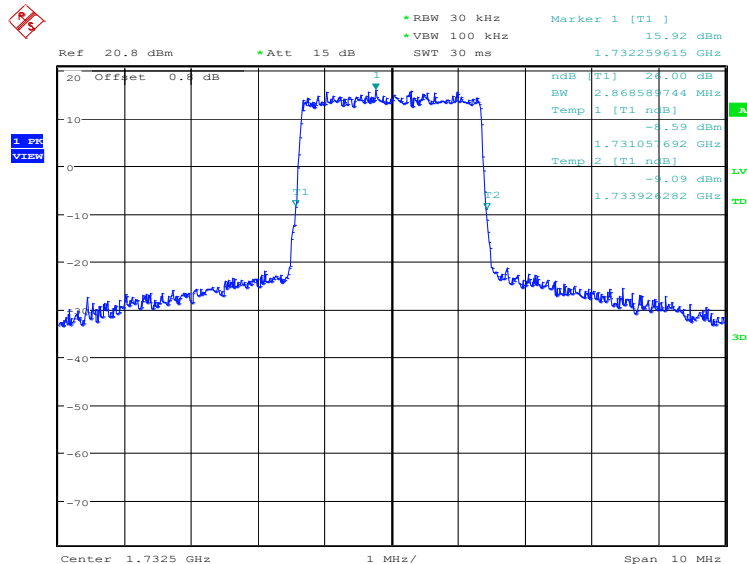
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	2884.62	2868.59

LTE band 4, 3MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 20:56:01

LTE band 4, 3MHz Bandwidth, 16QAM (-26dBc BW)

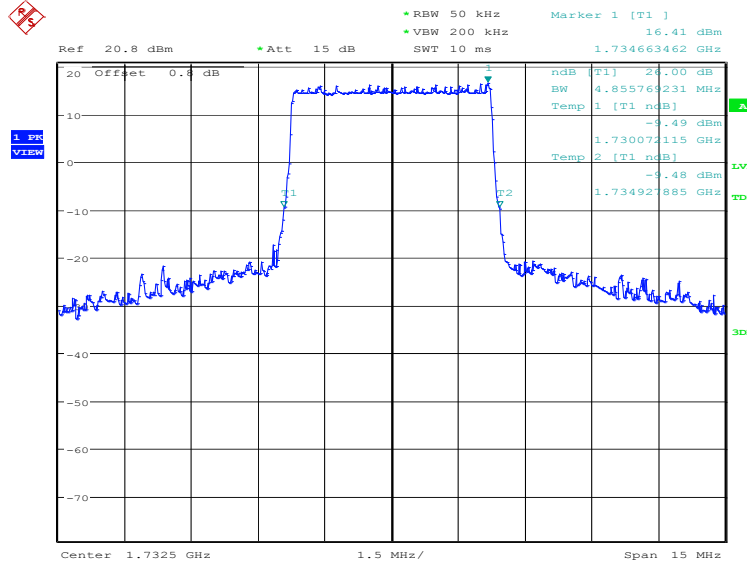


Date: 25.MAR.2021 20:56:41

LTE band 4, 5MHz (-26dBc)

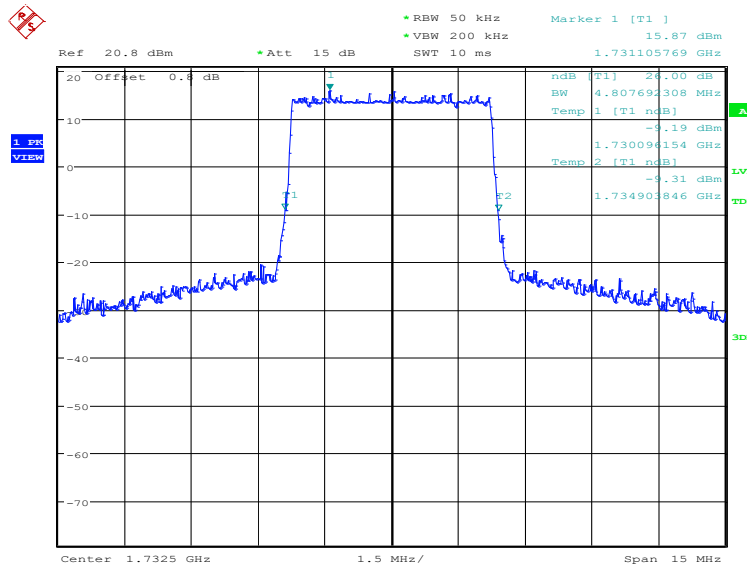
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	4855.77	4807.69

LTE band 4, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.APR.2021 16:55:24

LTE band 4, 5MHz Bandwidth, 16QAM (-26dBc BW)

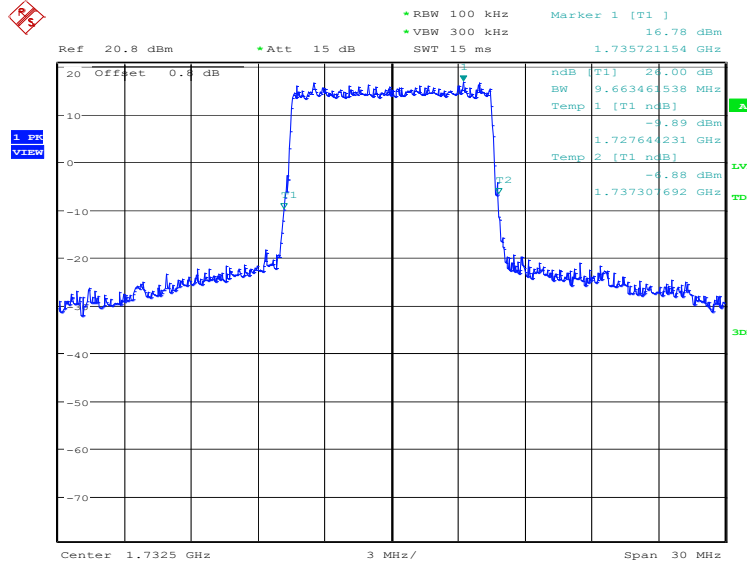


Date: 25.APR.2021 16:56:04

LTE band 4, 10MHz (-26dBc)

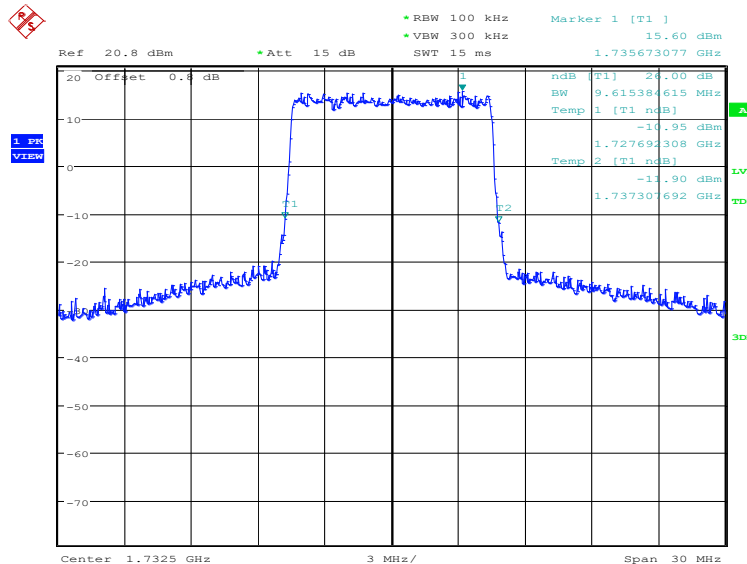
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	9663.46	9615.38

LTE band 4, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 21:00:21

LTE band 4, 10MHz Bandwidth, 16QAM (-26dBc BW)

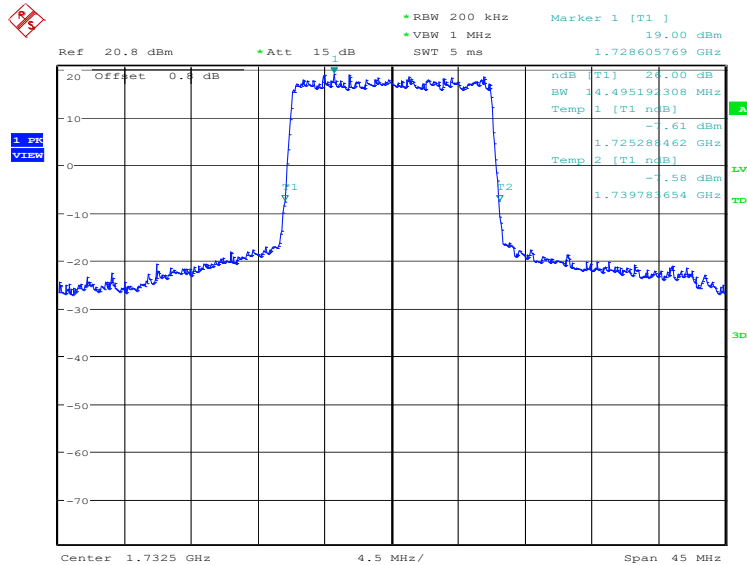


Date: 25.MAR.2021 21:01:02

LTE band 4, 15MHz (-26dBc)

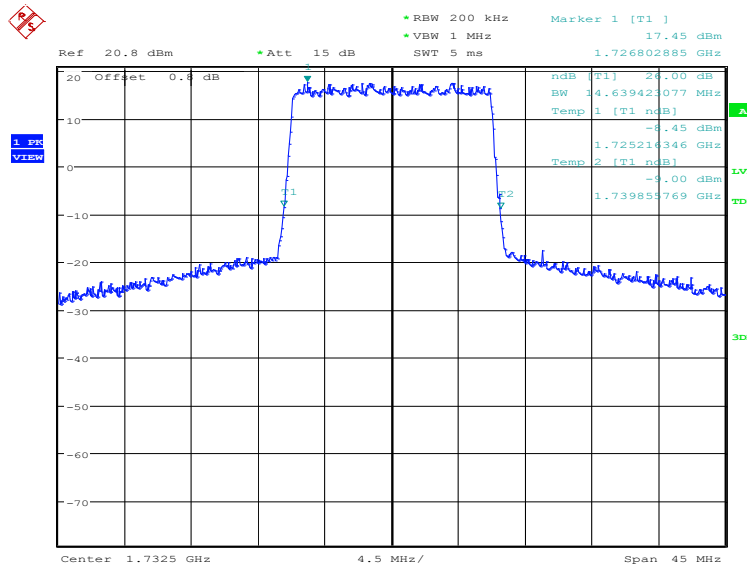
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	14495.19	14639.42

LTE band 4, 15MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.APR.2021 16:46:44

LTE band 4, 15MHz Bandwidth, 16QAM (-26dBc BW)

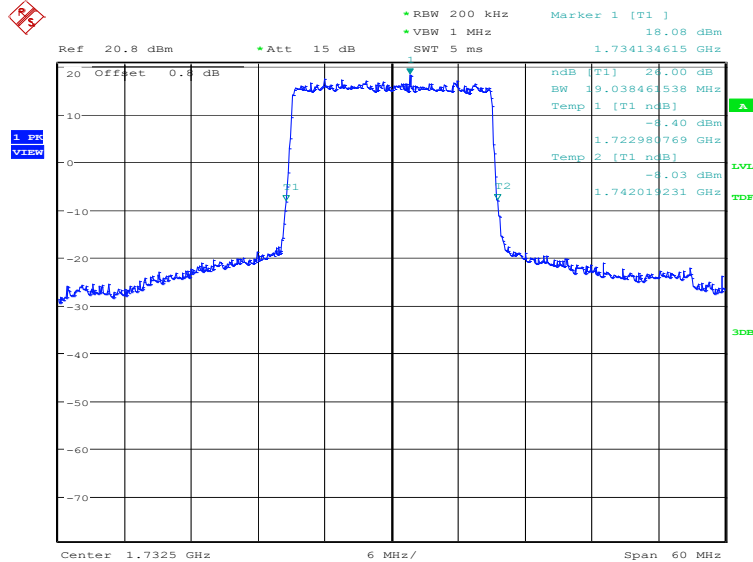


Date: 25.APR.2021 16:47:23

LTE band 4, 20MHz (-26dBc)

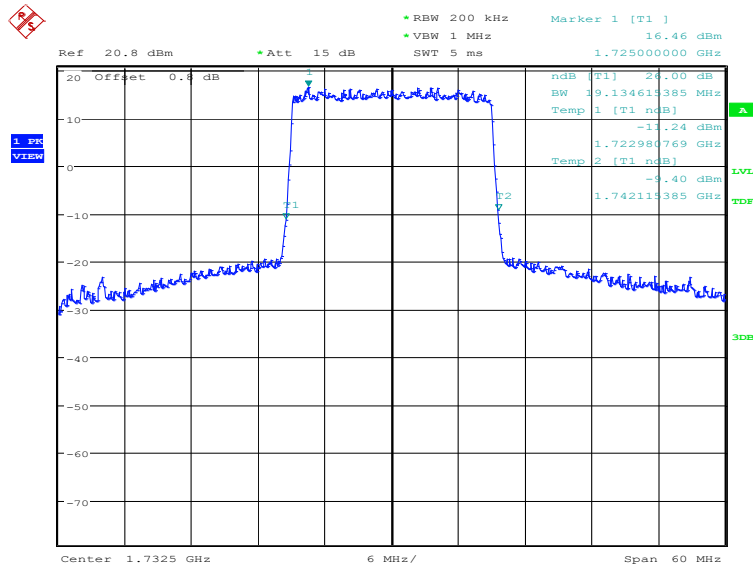
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1732.5	QPSK	16QAM
	19038.46	19134.62

LTE band 4, 20MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 21:04:42

LTE band 4, 20MHz Bandwidth, 16QAM (-26dBc BW)

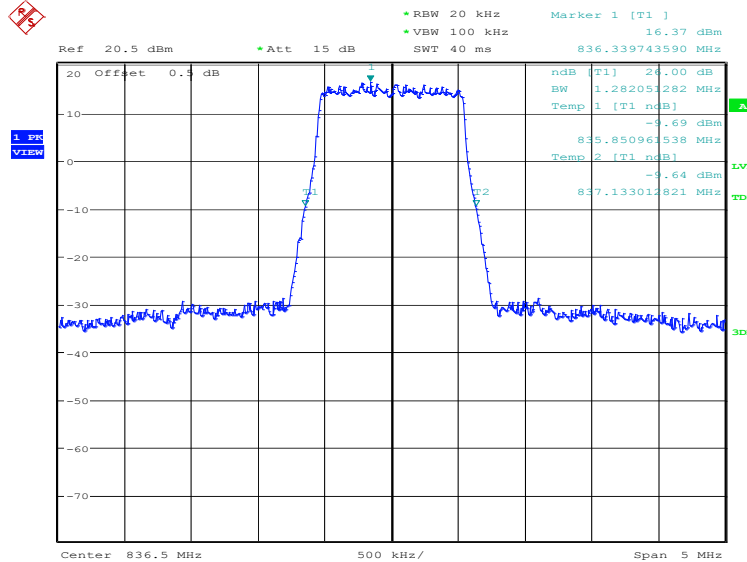


Date: 25.MAR.2021 21:05:22

LTE band 5, 1.4MHz (-26dBc)

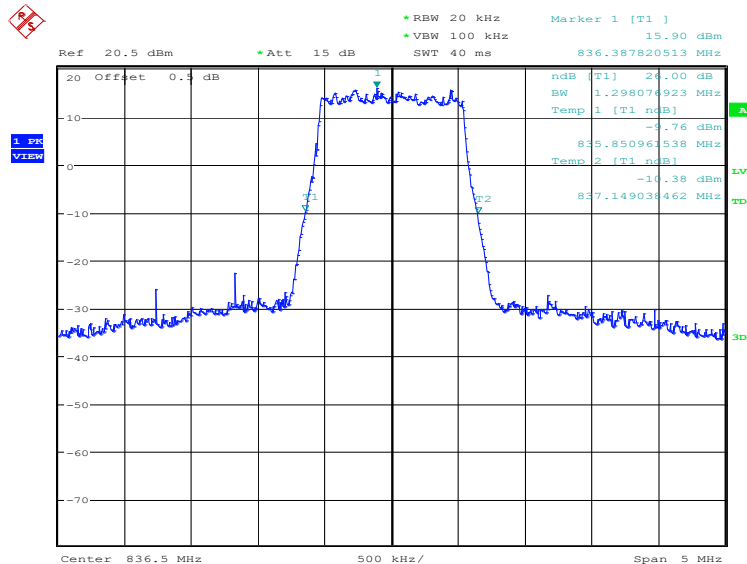
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1282.05	1298.08

LTE band 5, 1.4MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 21:06:53

LTE band 5, 1.4MHz Bandwidth, 16QAM (-26dBc BW)

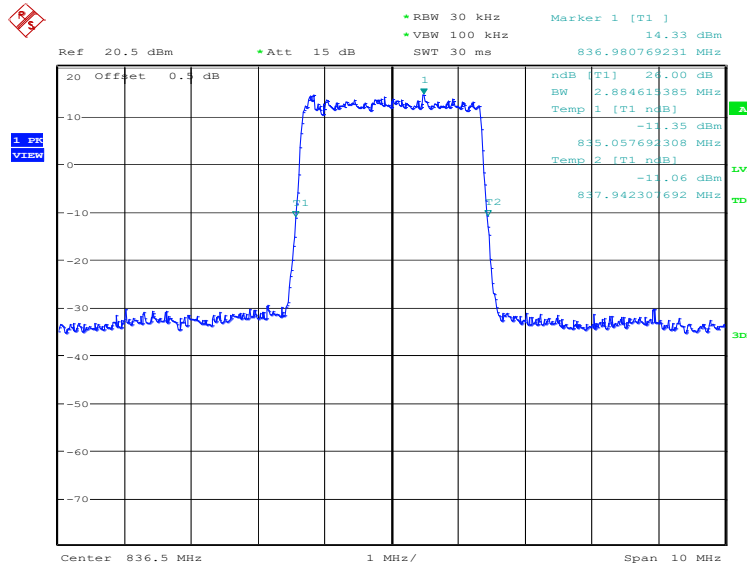


Date: 25.MAR.2021 21:07:34

LTE band 5, 3MHz (-26dBc)

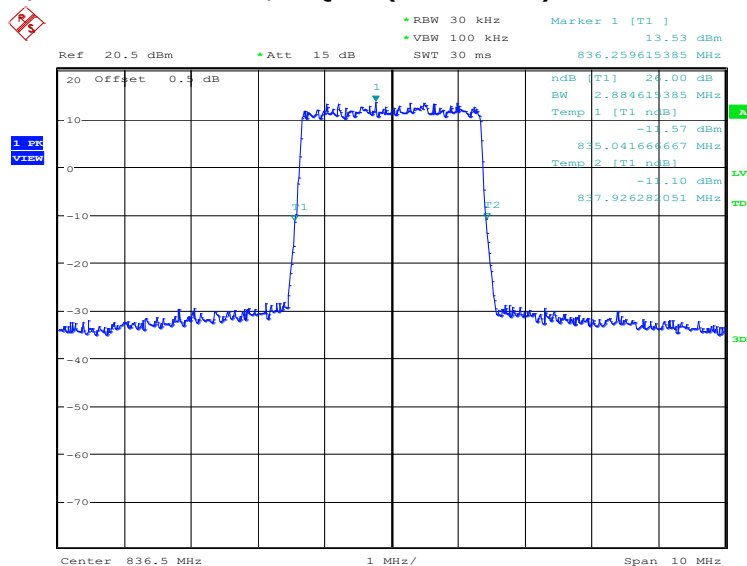
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2884.62	2884.62

LTE band 5, 3MHz Bandwidth, QPSK (-26dB BW)



Date: 25.MAR.2021 21:09:03

LTE band 5, 3MHz Bandwidth, 16QAM (-26dB BW)

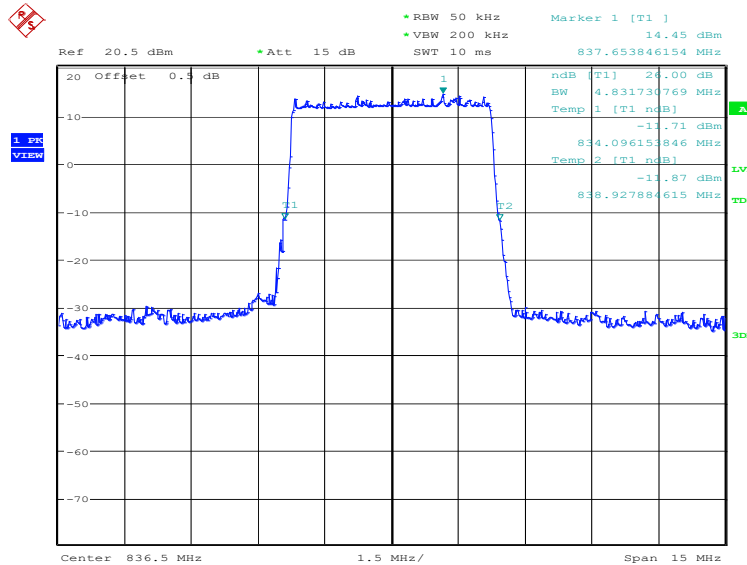


Date: 25.MAR.2021 21:09:44

LTE band 5, 5MHz (-26dBc)

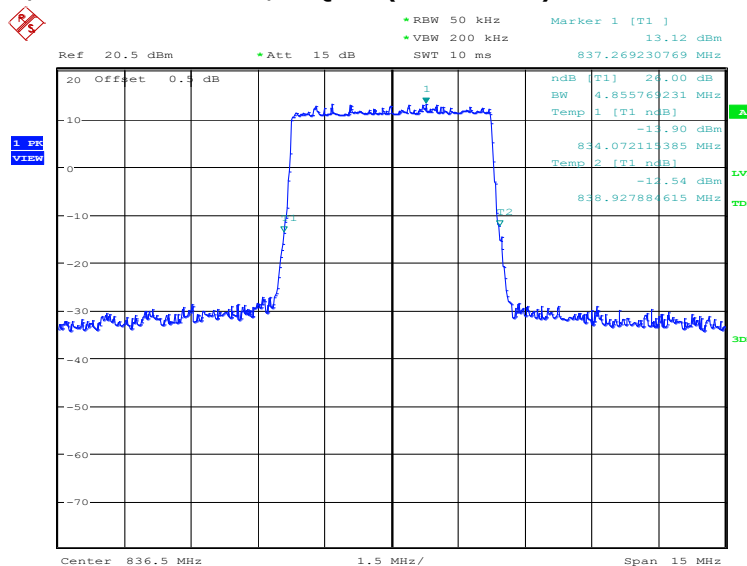
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4831.73	4855.77

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



Date: 25.MAR.2021 21:11:14

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

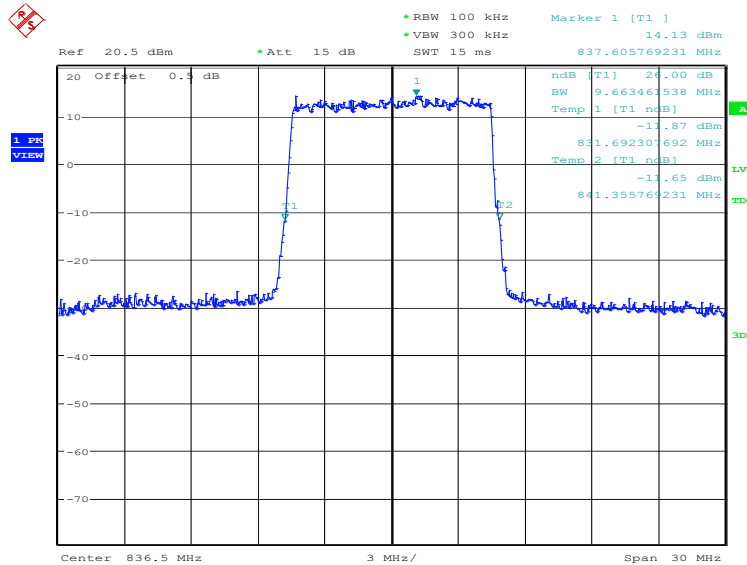


Date: 25.MAR.2021 21:11:54

LTE band 5, 10MHz (-26dBc)

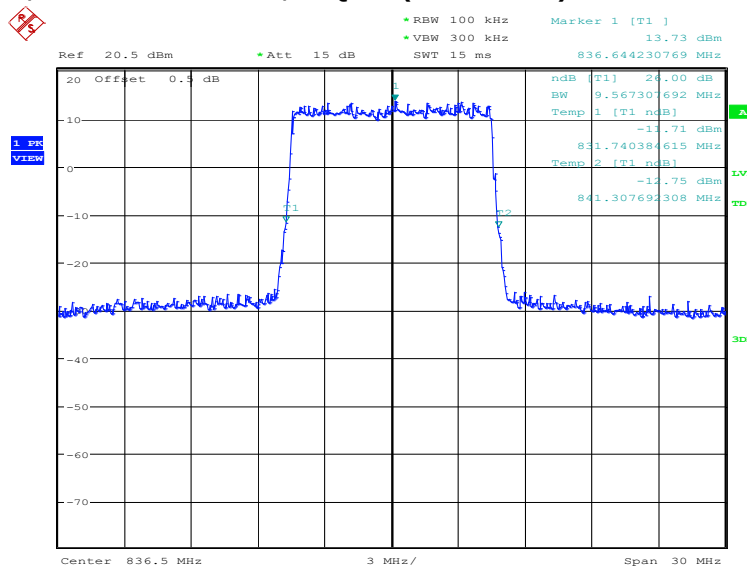
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9663.46	9567.31

LTE band 5, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 21:13:24

LTE band 5, 10MHz Bandwidth, 16QAM (-26dBc BW)

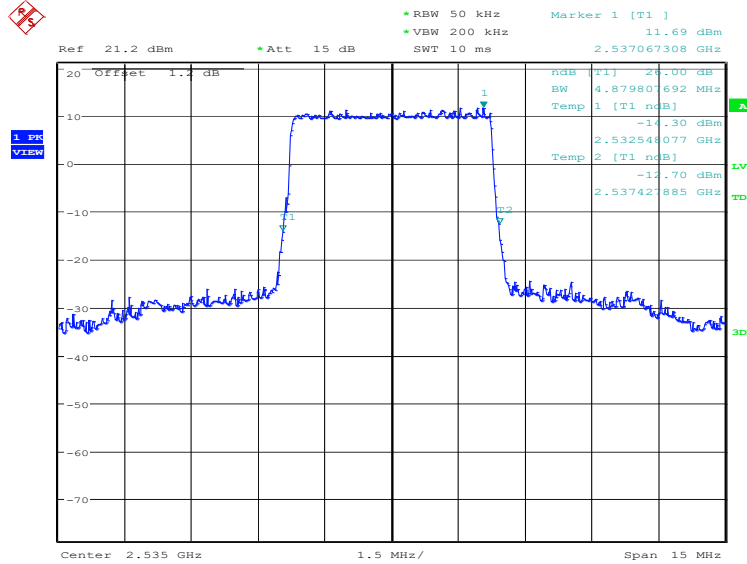


Date: 25.MAR.2021 21:14:04

LTE band 7, 5MHz (-26dBc)

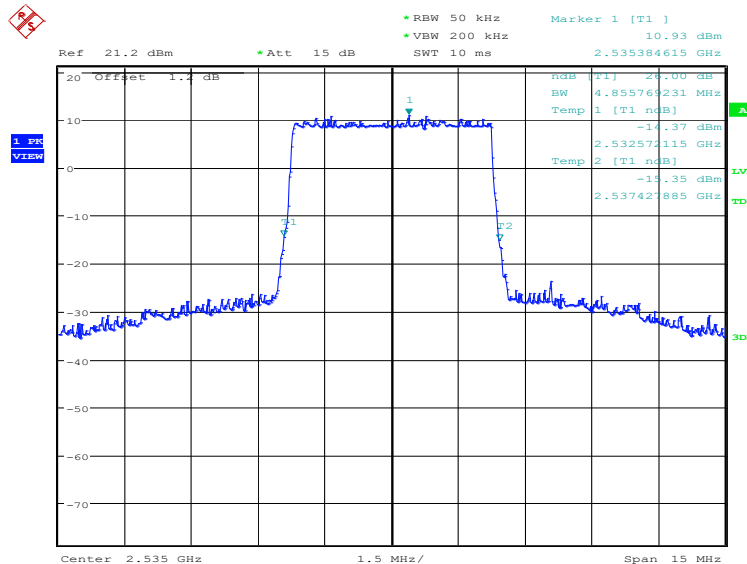
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	4879.81	4855.77

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



Date: 25.MAR.2021 21:15:35

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

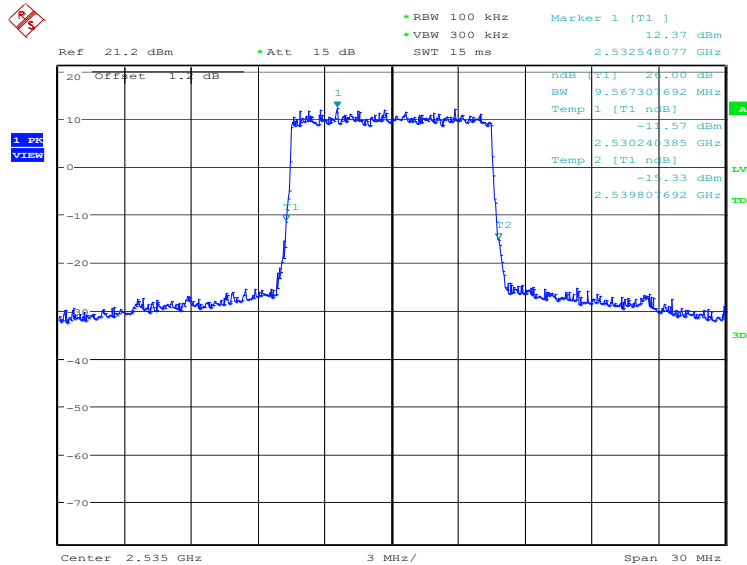


Date: 25.MAR.2021 21:16:16

LTE band 7, 10MHz (-26dBc)

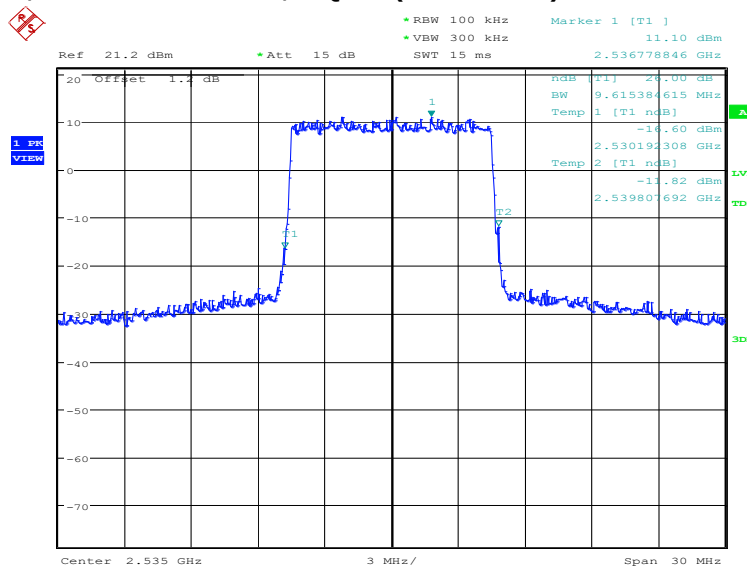
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	9567.31	9615.38

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



Date: 26.MAR.2021 09:44:57

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

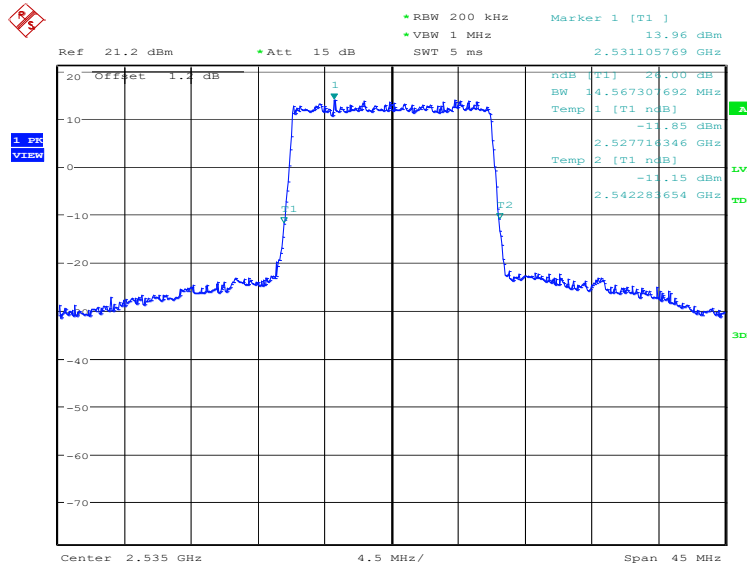


Date: 26.MAR.2021 09:45:36

LTE band 7, 15MHz (-26dBc)

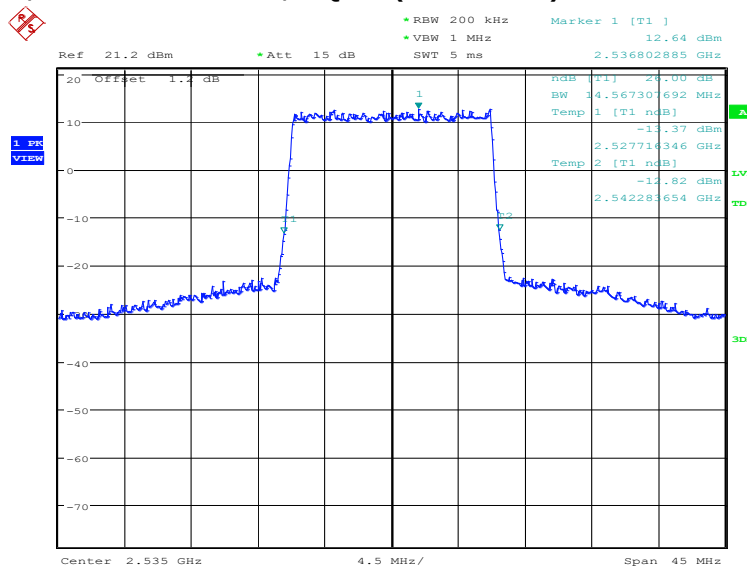
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	14567.31	14567.31

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



Date: 25.MAR.2021 21:19:56

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

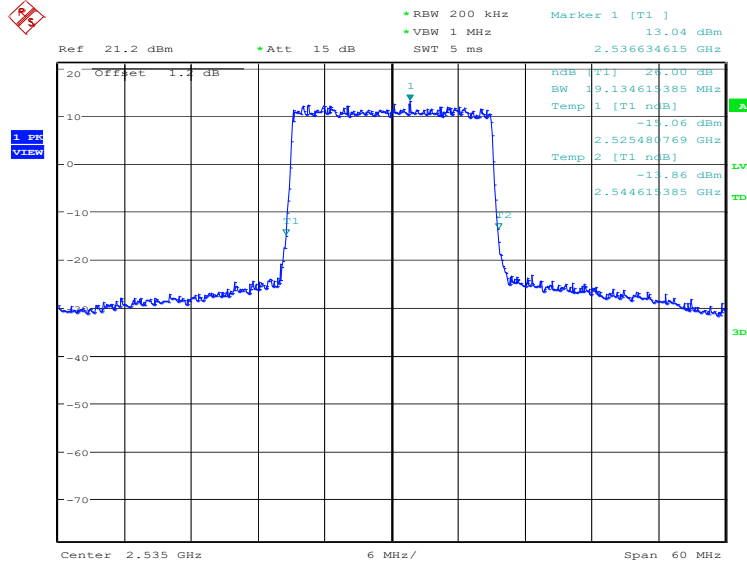


Date: 25.MAR.2021 21:20:37

LTE band 7, 20MHz (-26dBc)

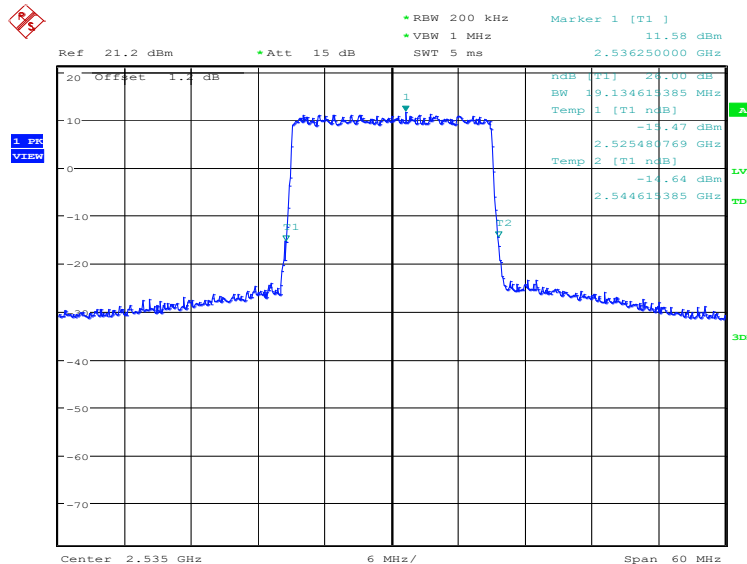
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2535.0	QPSK	16QAM
	19134.62	19134.62

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



Date: 26.MAR.2021 09:47:04

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

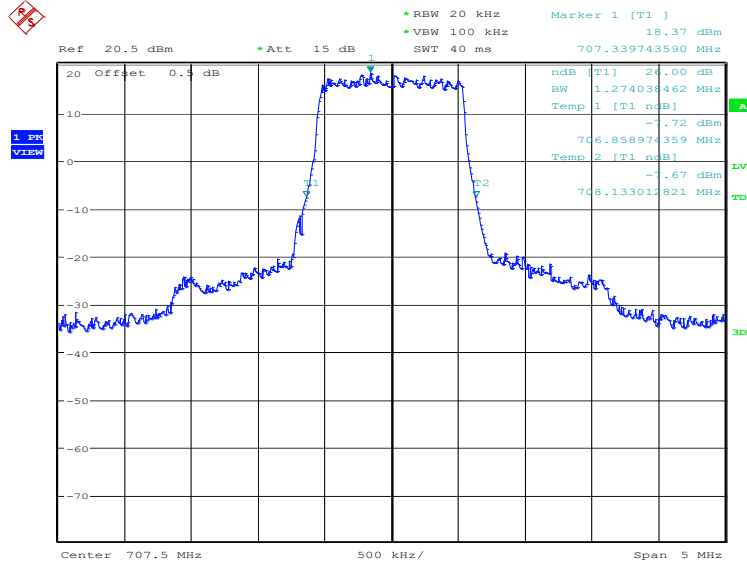


Date: 26.MAR.2021 09:47:43

LTE band 12, 1.4MHz (-26dBc)

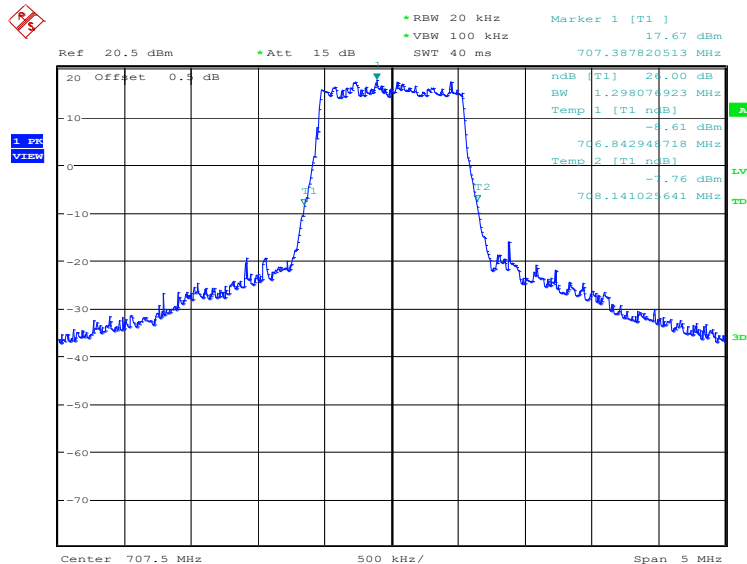
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	1274.04	1298.08

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



Date: 25.MAR.2021 21:24:17

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

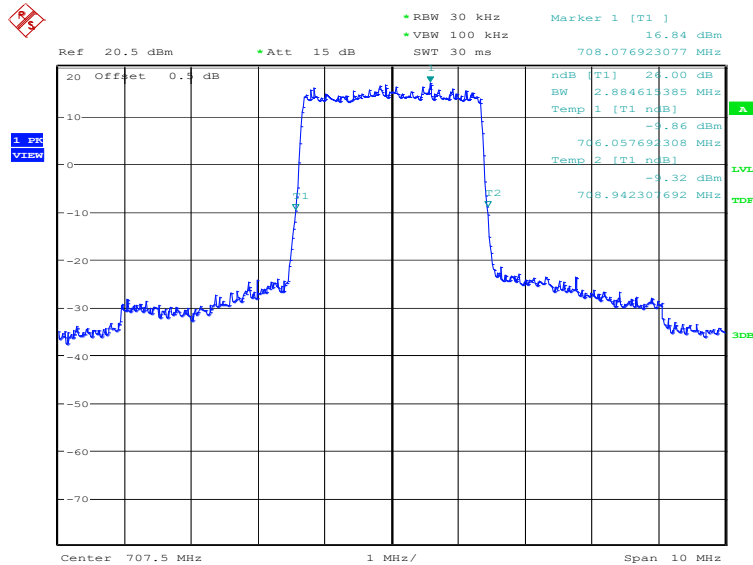


Date: 25.MAR.2021 21:24:58

LTE band 12, 3MHz (-26dBc)

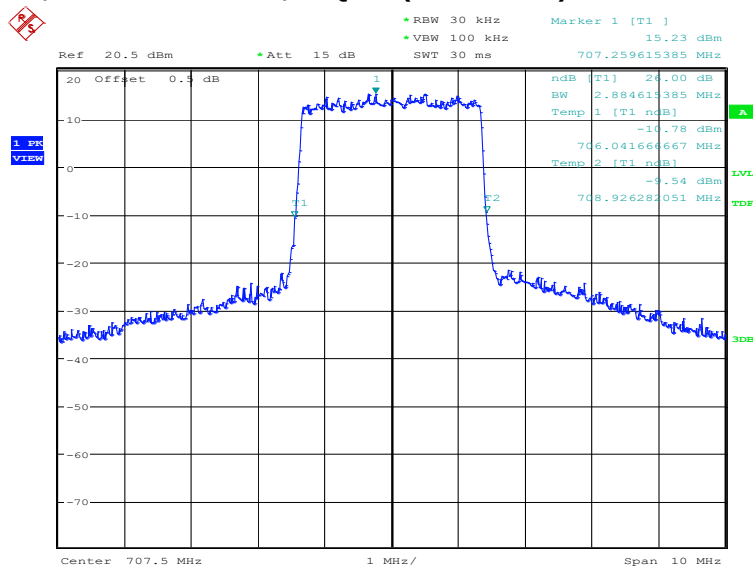
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	2884.62	2884.62

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



Date: 25.MAR.2021 21:26:28

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

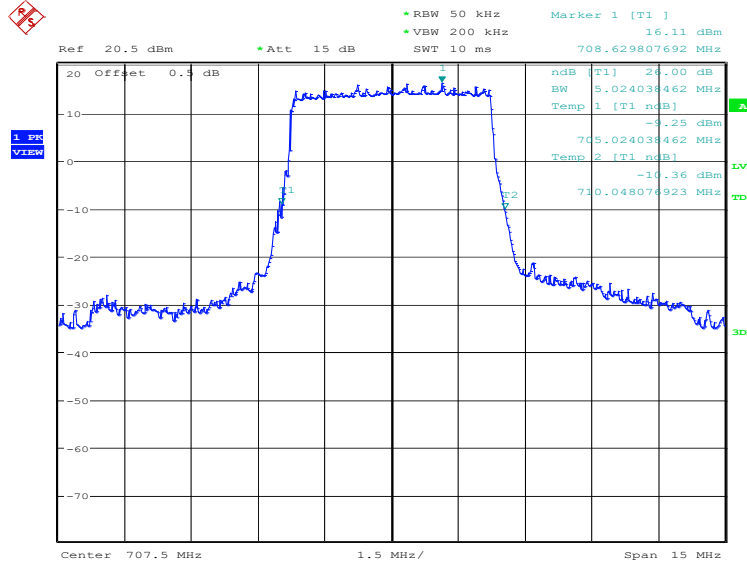


Date: 25.MAR.2021 21:27:08

LTE band 12, 5MHz (-26dBc)

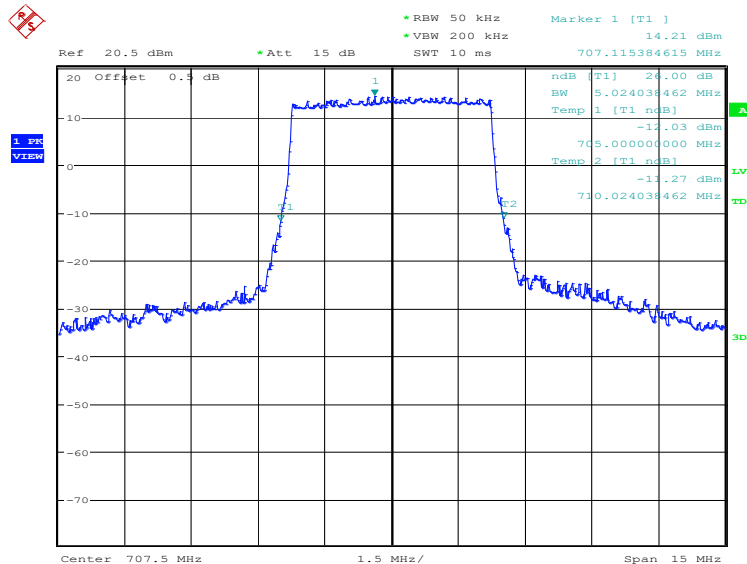
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	5024.04	5024.04

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



Date: 25.MAR.2021 21:28:38

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

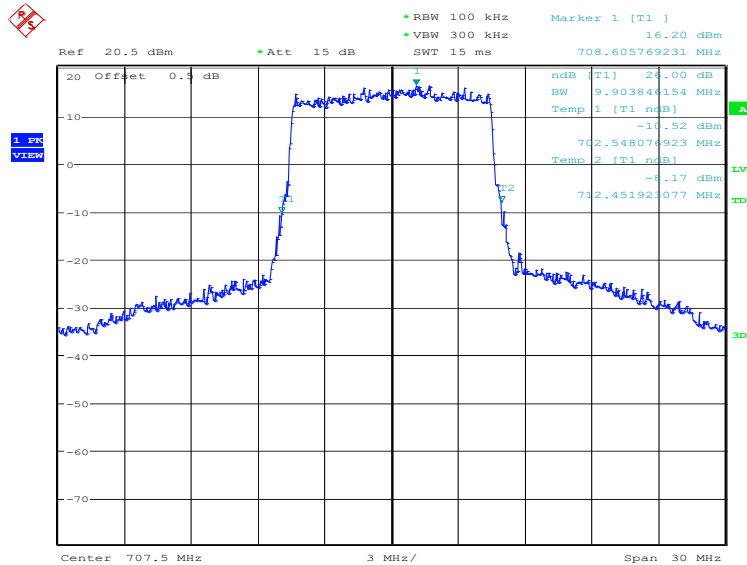


Date: 25.MAR.2021 21:29:19

LTE band 12, 10MHz (-26dBc)

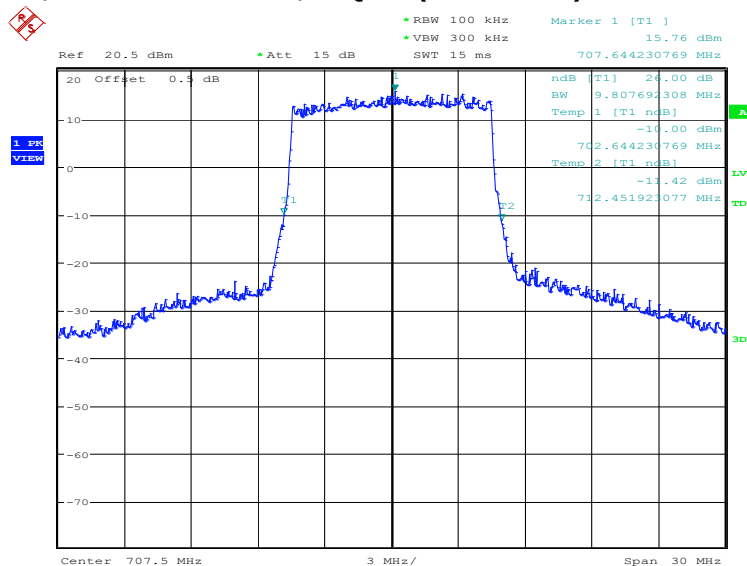
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
707.5	QPSK	16QAM
	9903.85	9807.69

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



Date: 25.MAR.2021 21:30:48

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

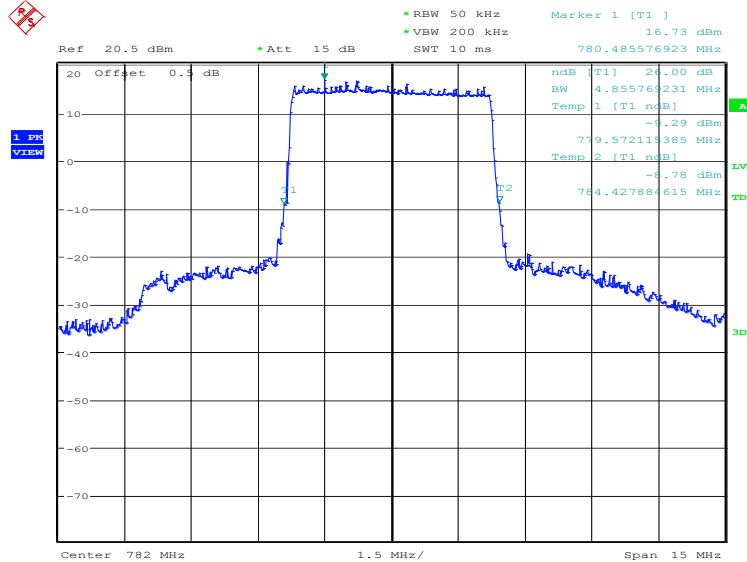


Date: 25.MAR.2021 21:31:29

LTE band 13, 5MHz (-26dBc)

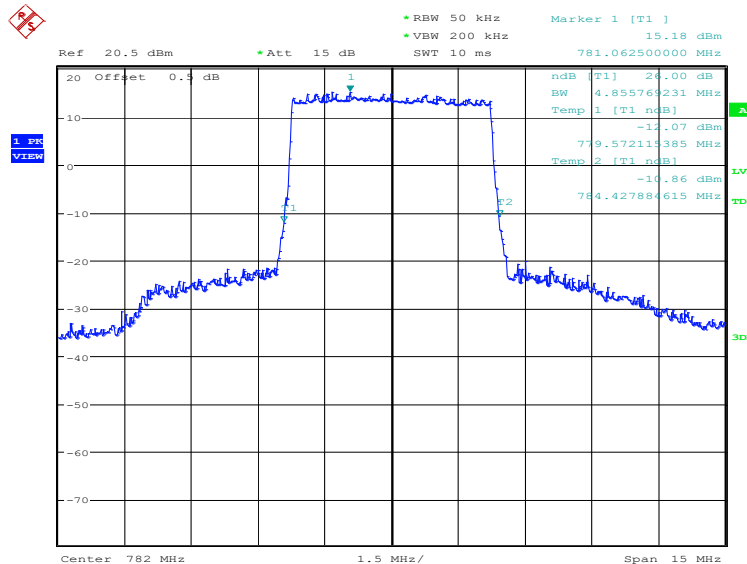
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	4855.77	4855.77

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



Date: 25.MAR.2021 21:33:00

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

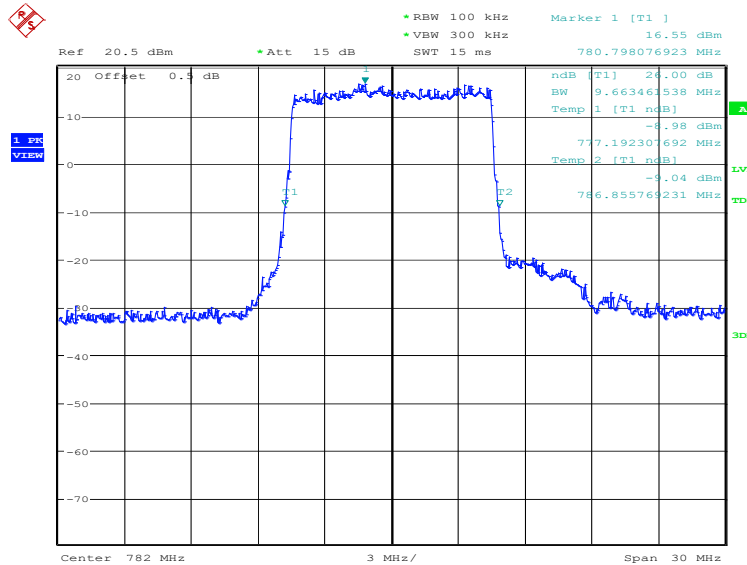


Date: 25.MAR.2021 21:33:41

LTE band 13, 10MHz (-26dBc)

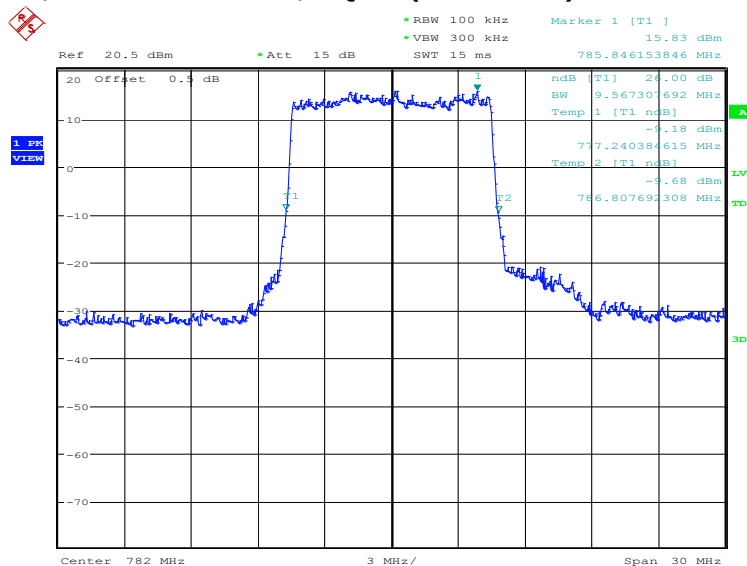
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
782.0	QPSK	16QAM
	9663.46	9567.31

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



Date: 25.MAR.2021 21:35:10

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

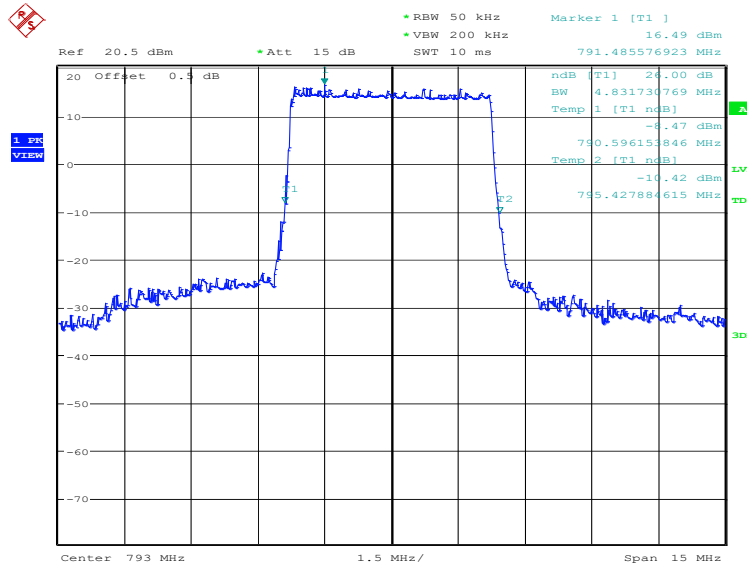


Date: 25.MAR.2021 21:35:51

LTE band 14, 5MHz (-26dBc)

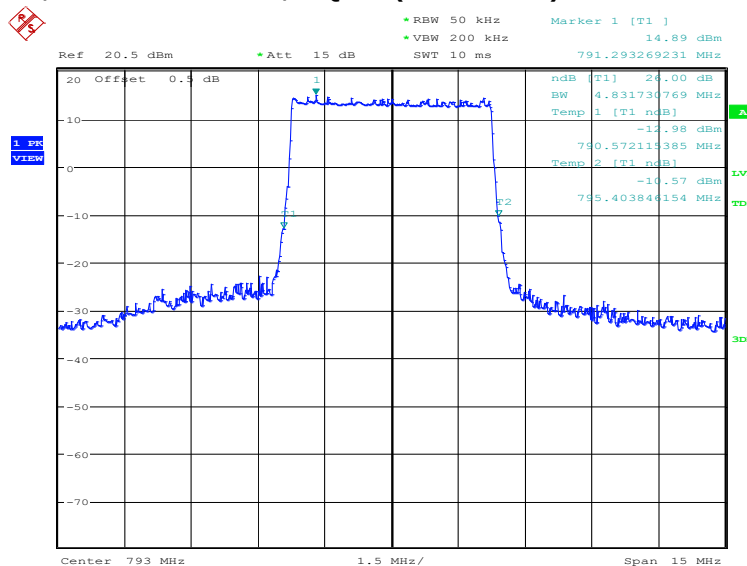
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
793.0	QPSK	16QAM
	4831.73	4831.73

LTE band 14, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 21:37:22

LTE band 14, 5MHz Bandwidth, 16QAM (-26dBc BW)

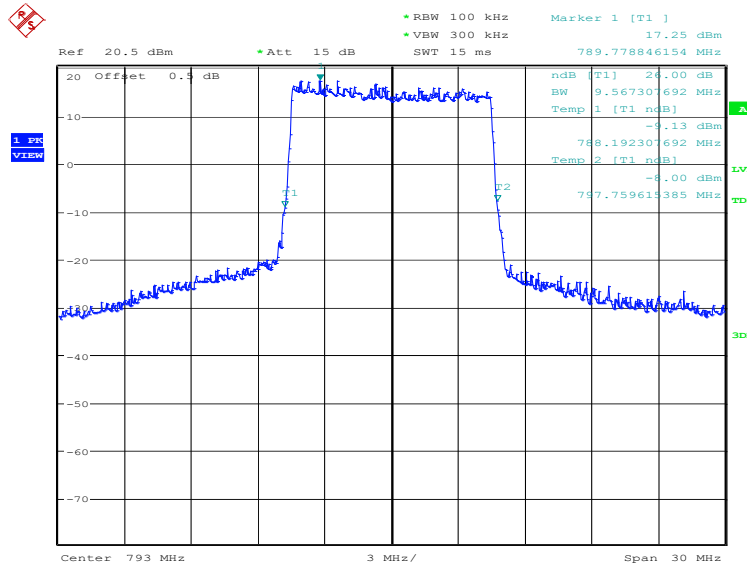


Date: 25.MAR.2021 21:38:03

LTE band 14, 10MHz (-26dBc)

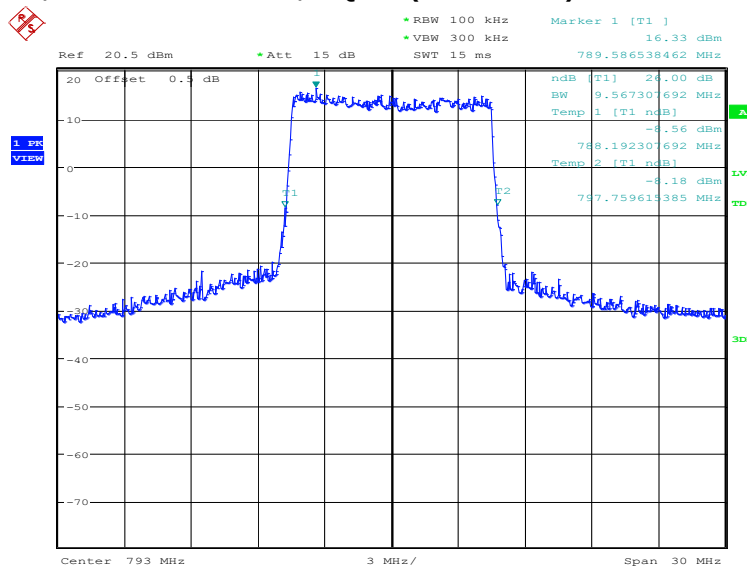
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
793.0	QPSK	16QAM
	9567.31	9567.31

LTE band 14, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.APR.2021 16:51:20

LTE band 14, 10MHz Bandwidth, 16QAM (-26dBc BW)

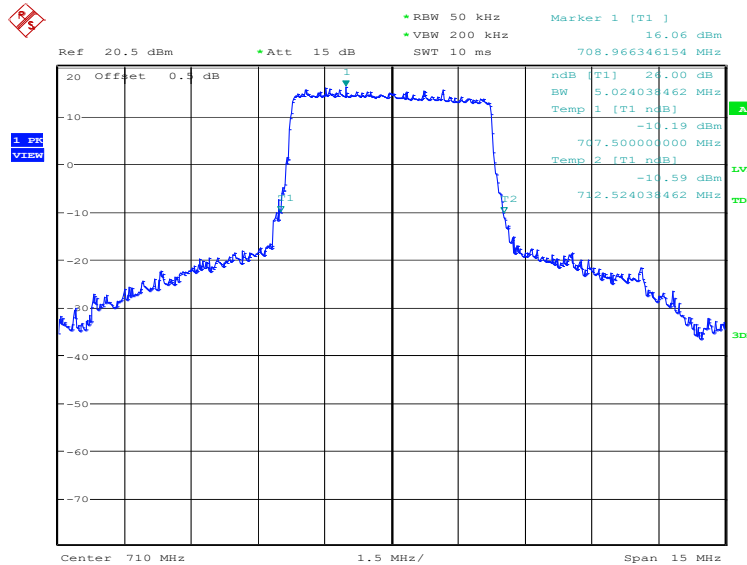


Date: 25.APR.2021 16:51:59

LTE band 17, 5MHz (-26dBc)

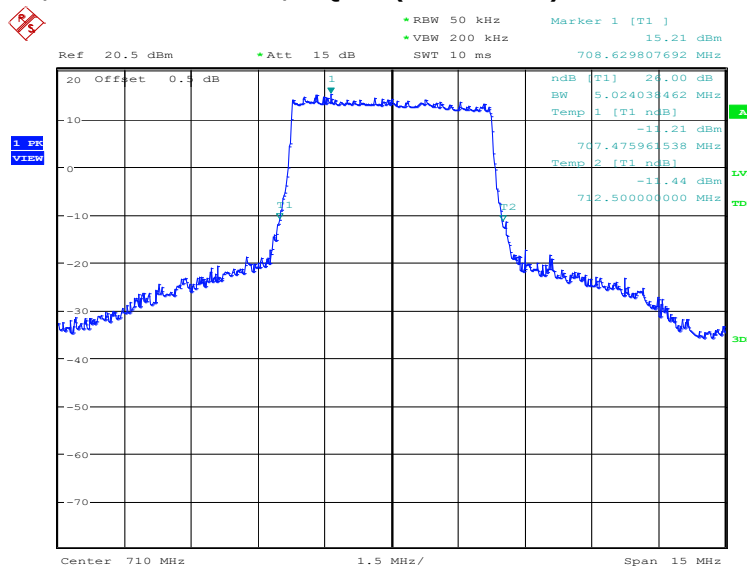
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
710.0	QPSK	16QAM
	5024.04	5024.04

LTE band 17, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 21:41:44

LTE band 17, 5MHz Bandwidth,16QAM (-26dBc BW)

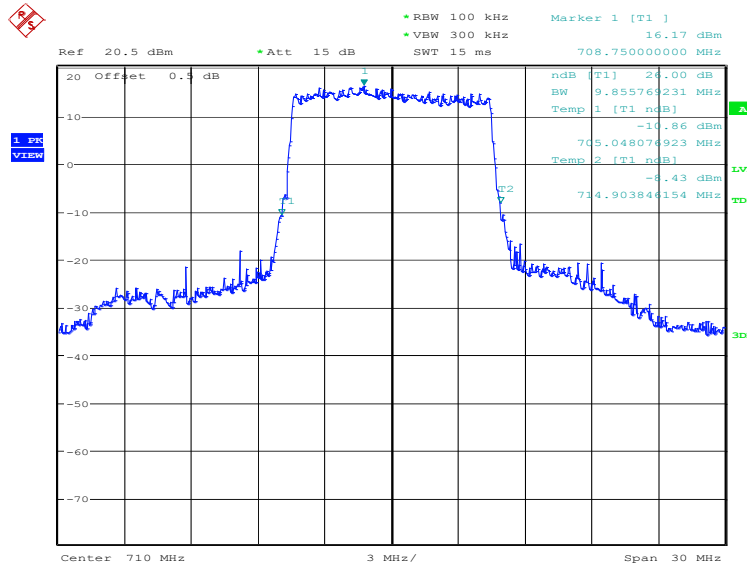


Date: 25.MAR.2021 21:42:25

LTE band 17, 10MHz (-26dBc)

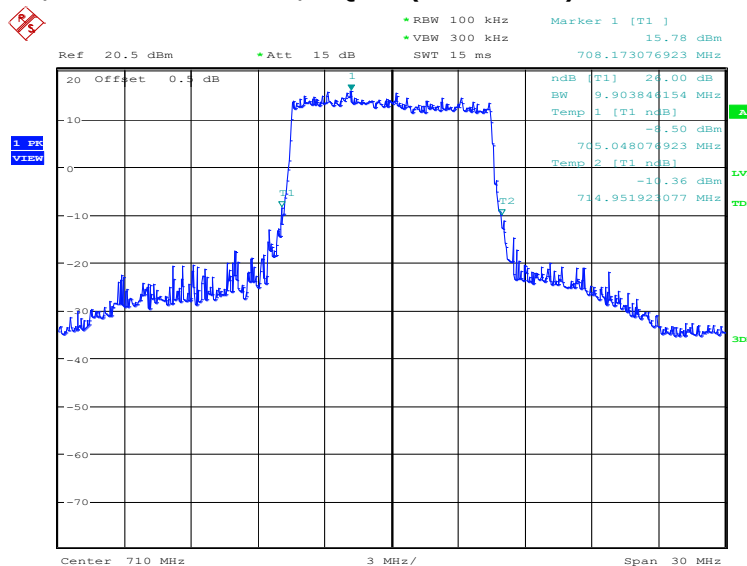
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
710.0	QPSK	16QAM
	9855.77	9903.85

LTE band 17, 10MHz Bandwidth, QPSK (-26dB BW)



Date: 25.MAR.2021 21:43:55

LTE band 17, 10MHz Bandwidth, 16QAM (-26dB BW)

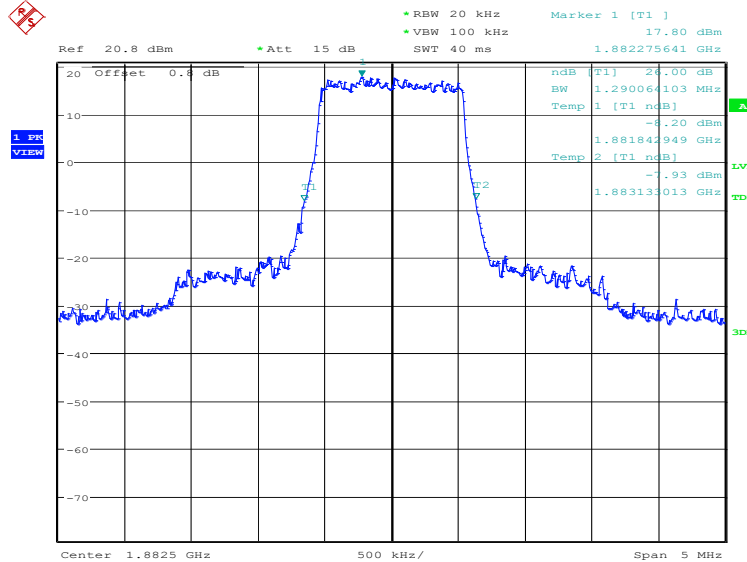


Date: 25.MAR.2021 21:44:35

LTE band 25, 1.4MHz (-26dBc)

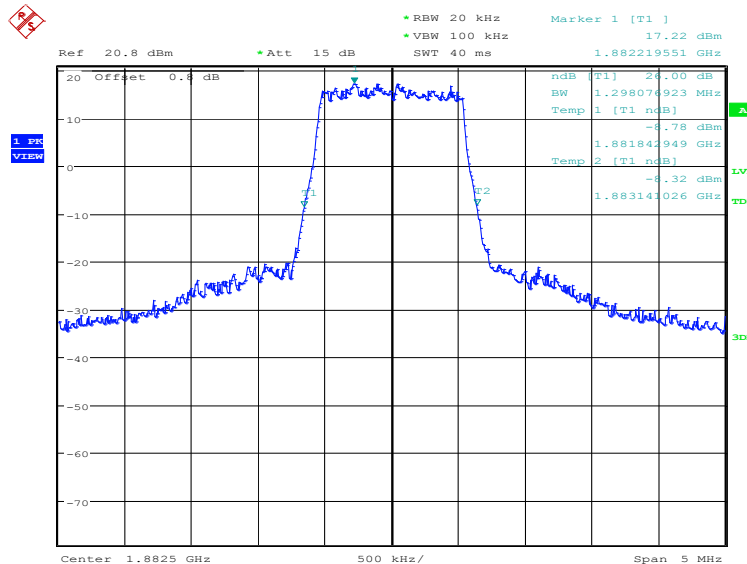
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	1290.06	1298.08

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



Date: 25.MAR.2021 21:46:07

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

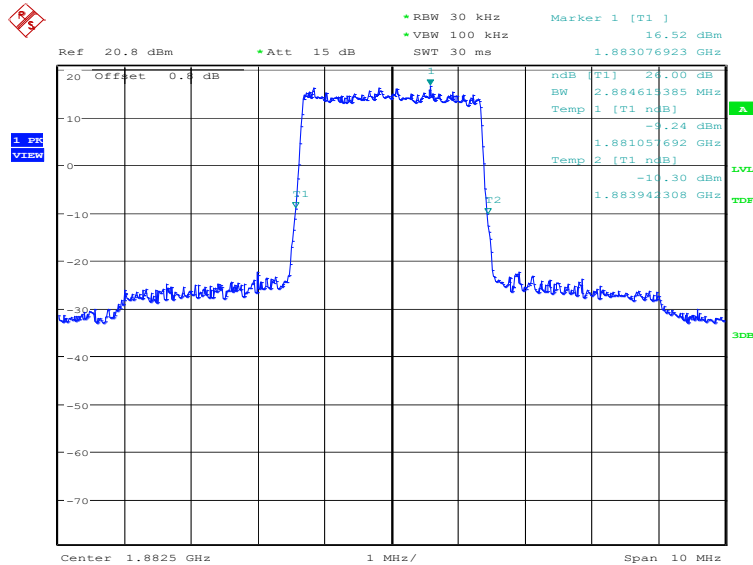


Date: 25.MAR.2021 21:46:47

LTE band 25, 3MHz (-26dBc)

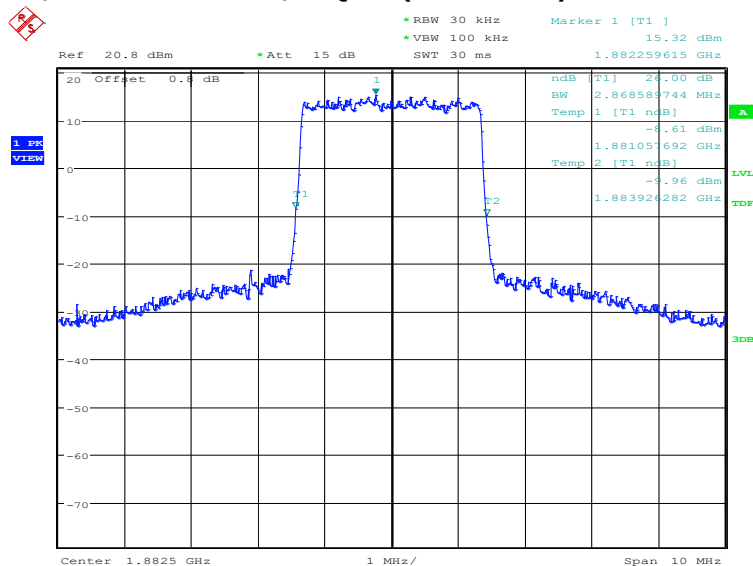
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	2884.62	2868.59

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



Date: 25.MAR.2021 21:48:17

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

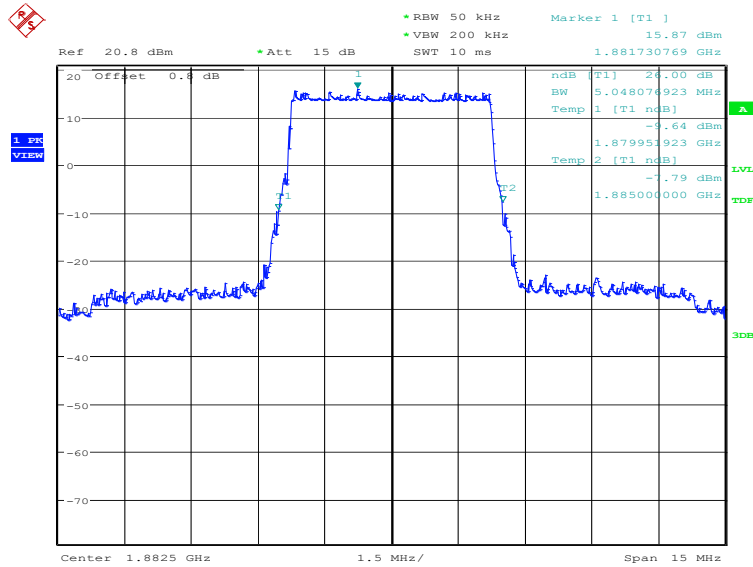


Date: 25.MAR.2021 21:48:58

LTE band 25, 5MHz (-26dBc)

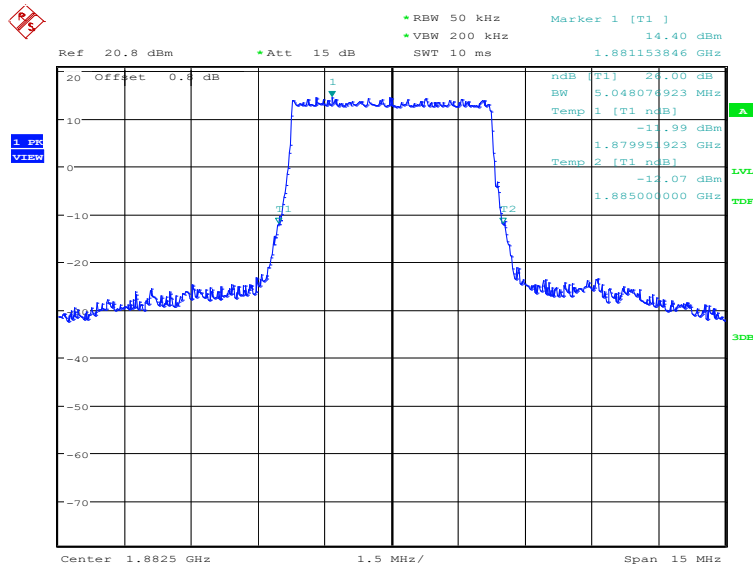
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	5048.08	5048.08

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



Date: 25.MAR.2021 21:50:28

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

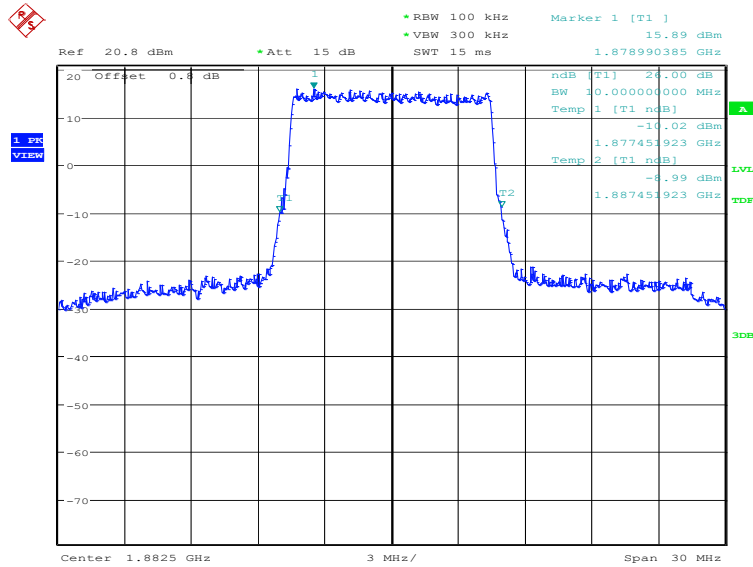


Date: 25.MAR.2021 21:51:08

LTE band 25, 10MHz (-26dBc)

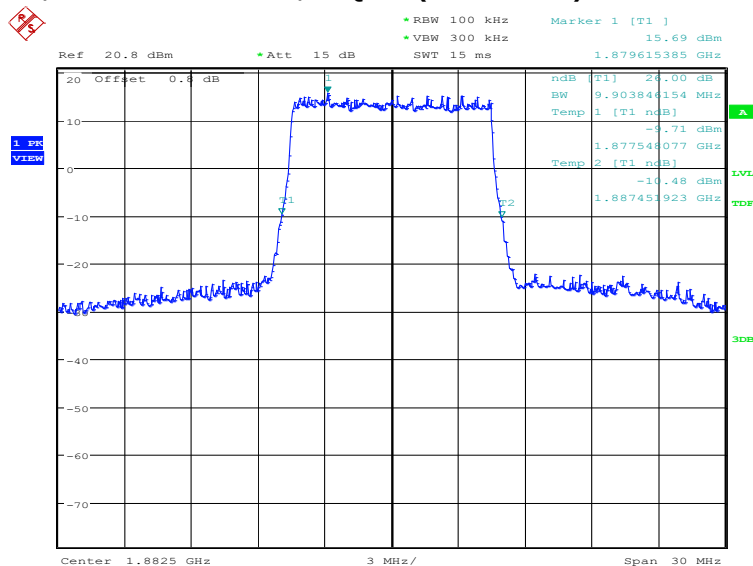
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	10000.00	9903.85

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



Date: 25.MAR.2021 21:52:38

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

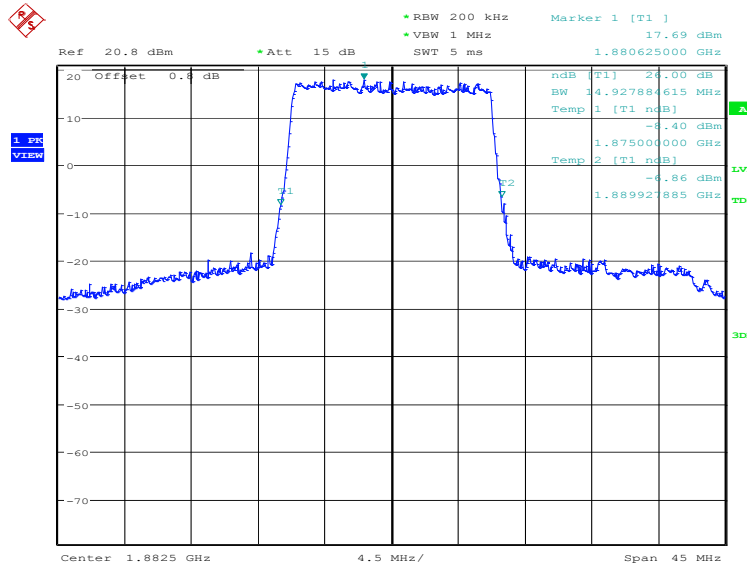


Date: 25.MAR.2021 21:53:19

LTE band 25, 15MHz (-26dBc)

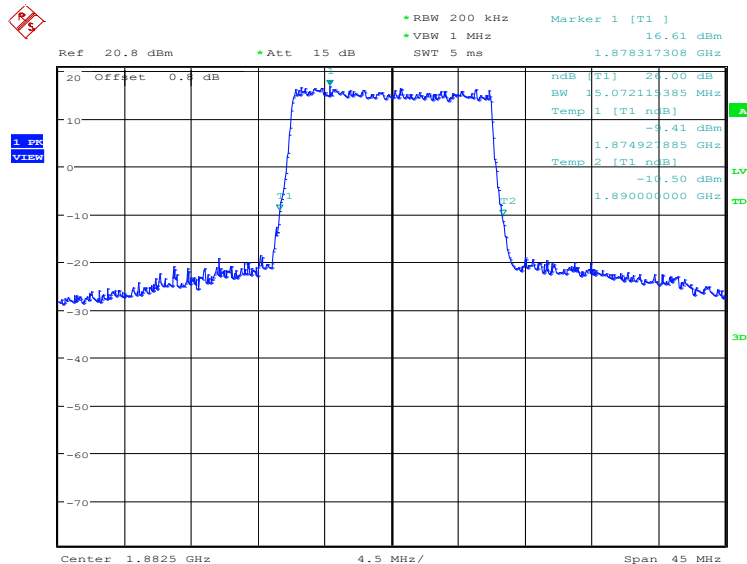
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	14927.88	15072.12

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



Date: 25.APR.2021 16:48:04

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

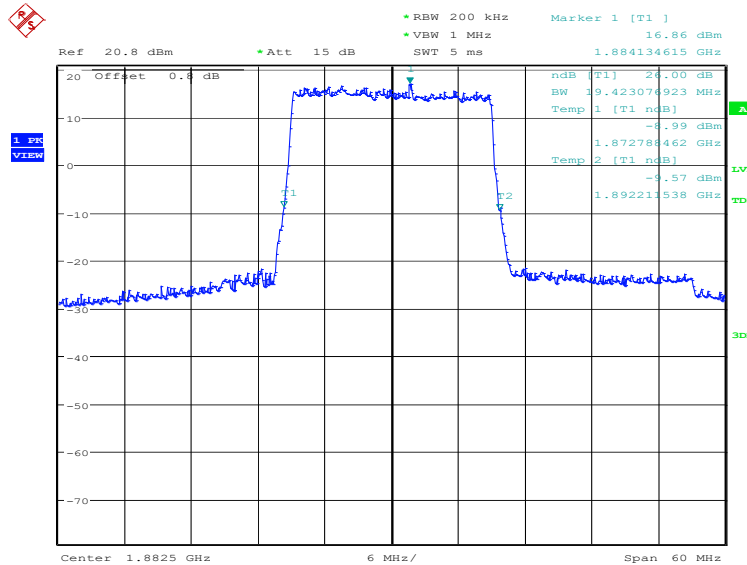


Date: 25.APR.2021 16:48:44

LTE band 25, 20MHz (-26dBc)

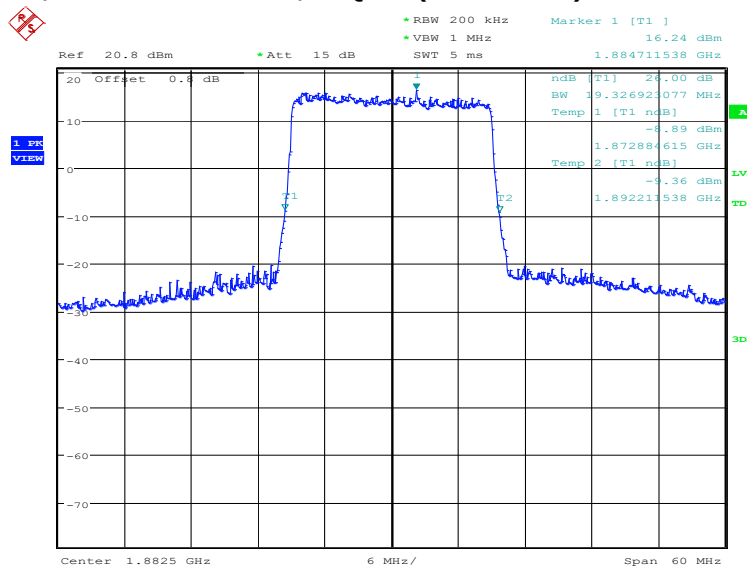
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1882.5	QPSK	16QAM
	19423.08	19326.92

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



Date: 25.MAR.2021 21:57:00

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

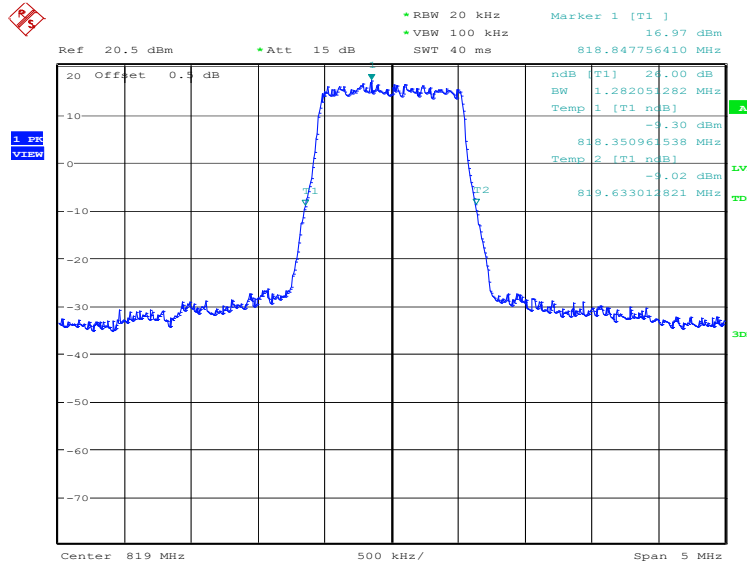


Date: 25.MAR.2021 21:57:40

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

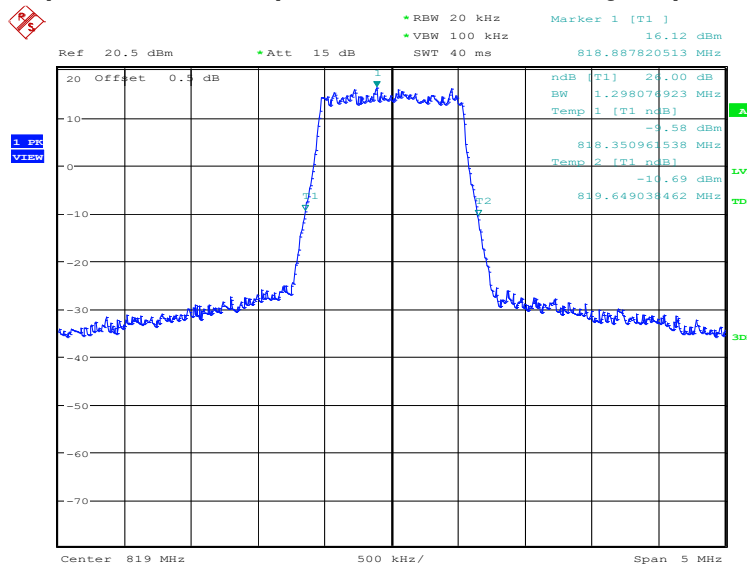
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	1282.05	1298.08

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



Date: 25.MAR.2021 22:09:15

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

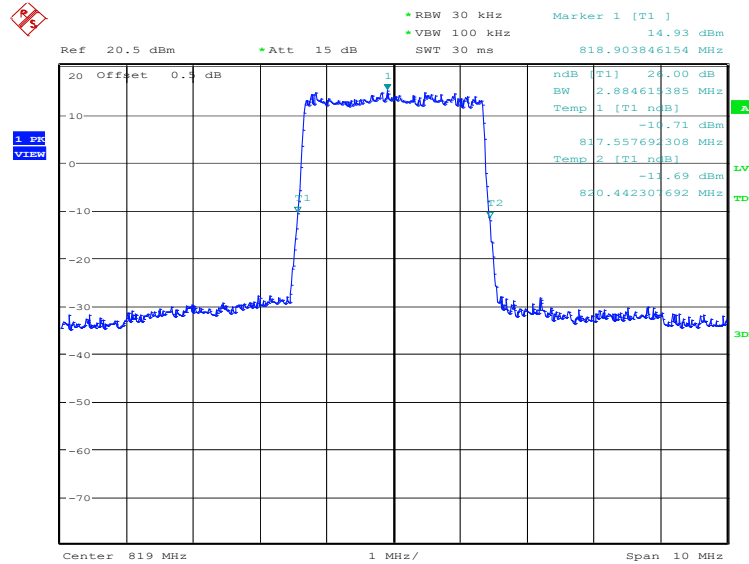


Date: 25.MAR.2021 22:09:56

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

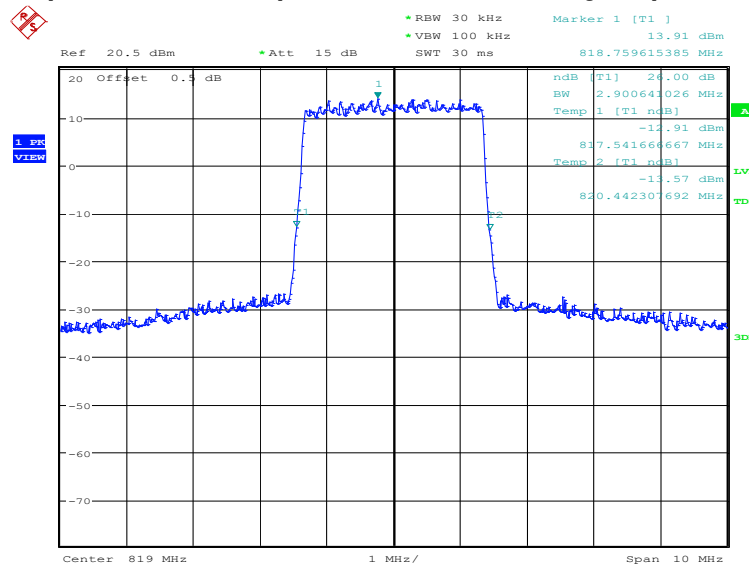
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	2884.62	2900.64

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



Date: 25.MAR.2021 22:11:26

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

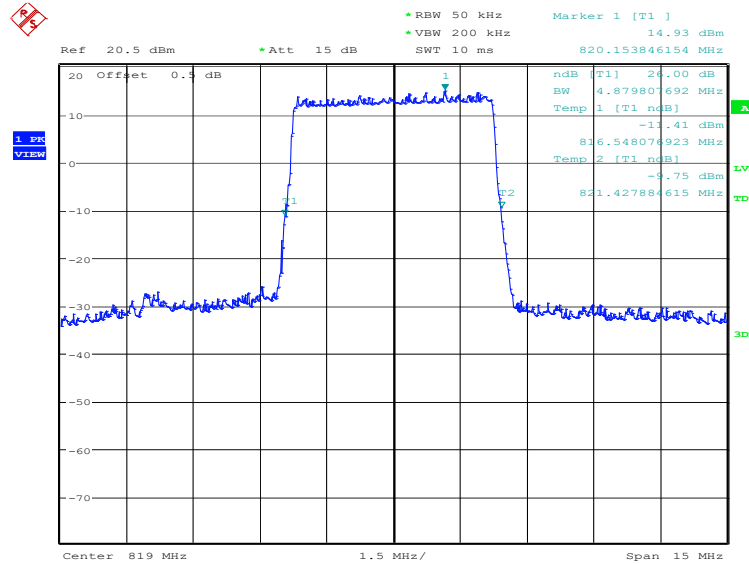


Date: 25.MAR.2021 22:12:07

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

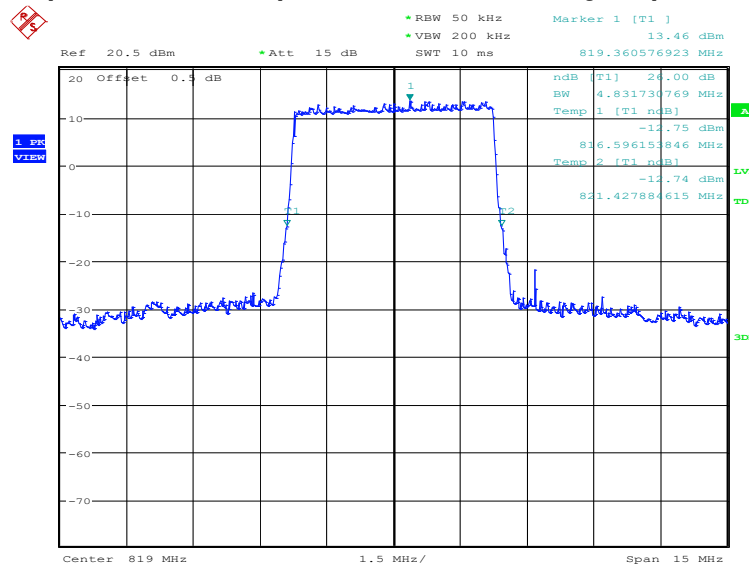
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	4879.81	4831.73

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



Date: 25.MAR.2021 22:13:37

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

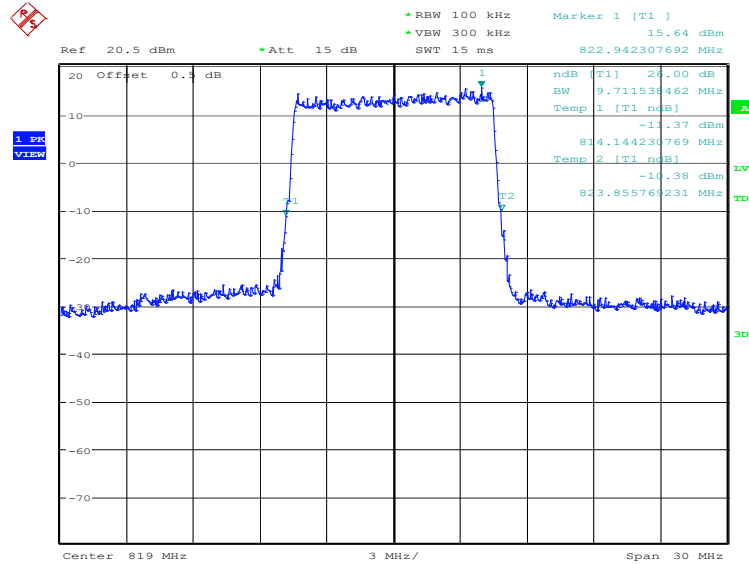


Date: 25.MAR.2021 22:14:18

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

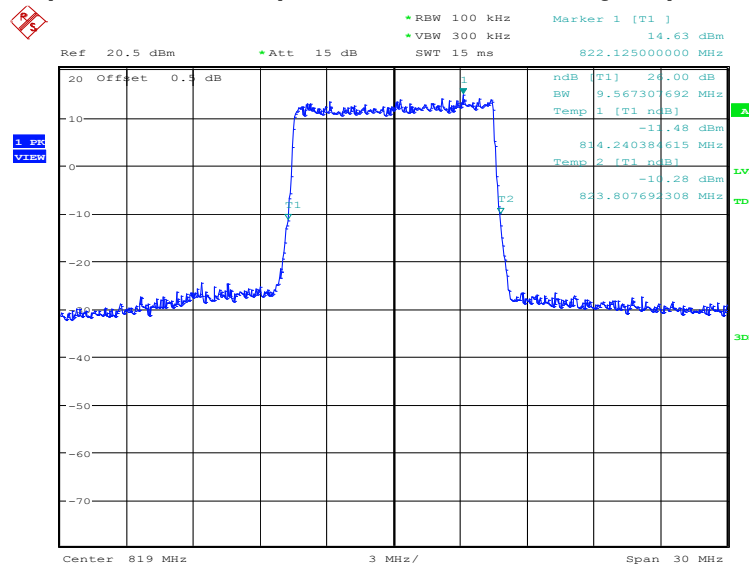
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
819.0	QPSK	16QAM
	9711.54	9567.31

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



Date: 25.MAR.2021 22:15:48

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

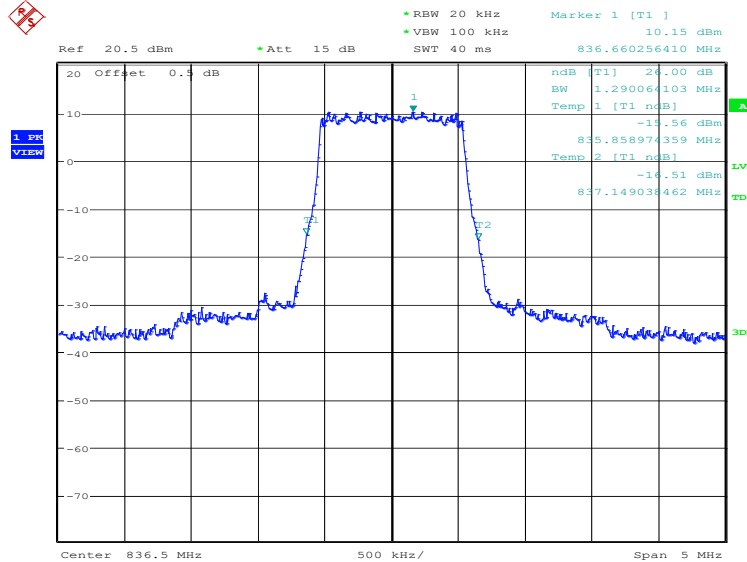


Date: 25.MAR.2021 22:16:29

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

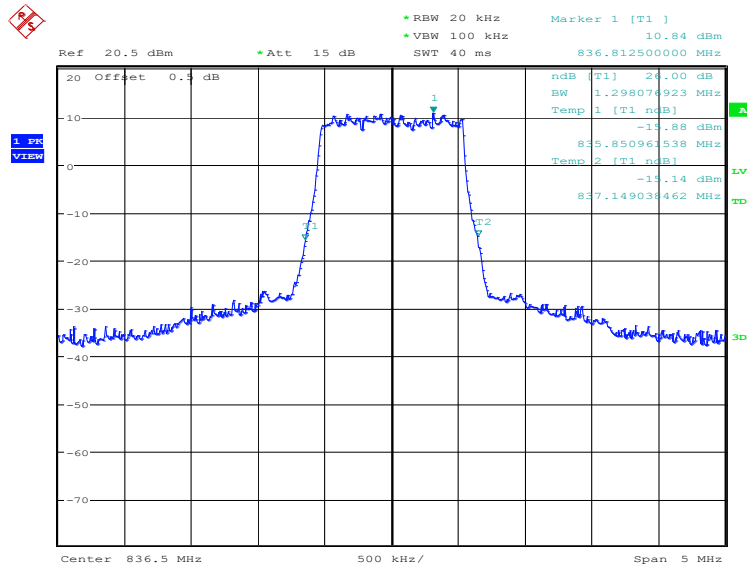
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	1290.06	1298.08

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



Date: 25.MAR.2021 21:58:31

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

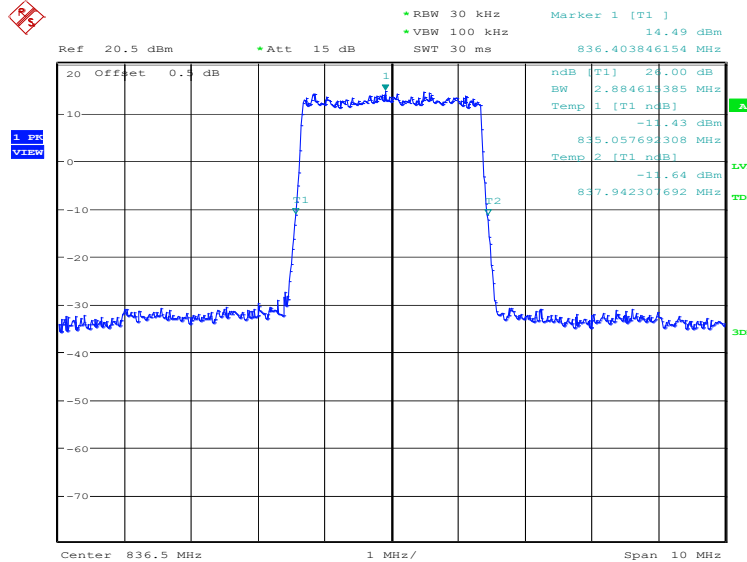


Date: 25.MAR.2021 21:59:12

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

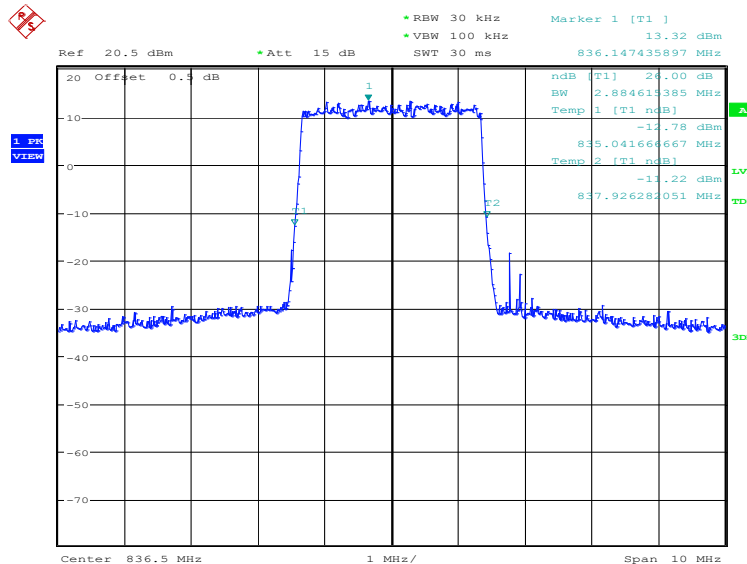
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	2884.62	2884.62

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



Date: 25.MAR.2021 22:00:42

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

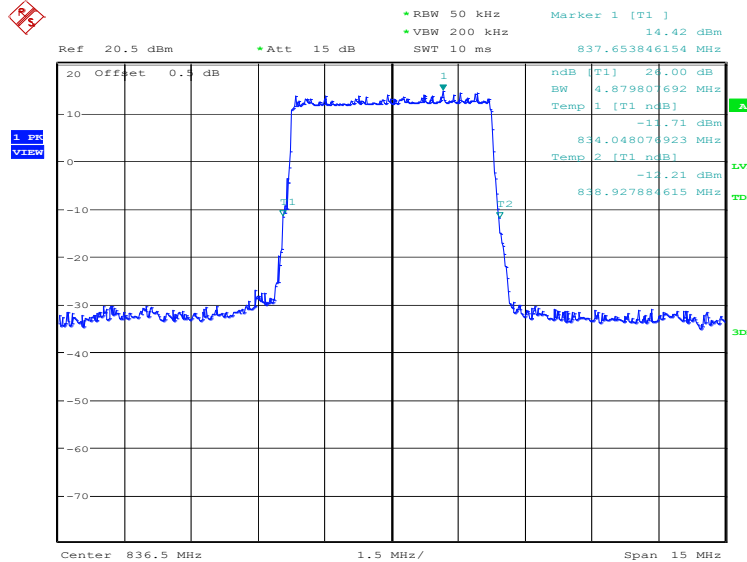


Date: 25.MAR.2021 22:01:23

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

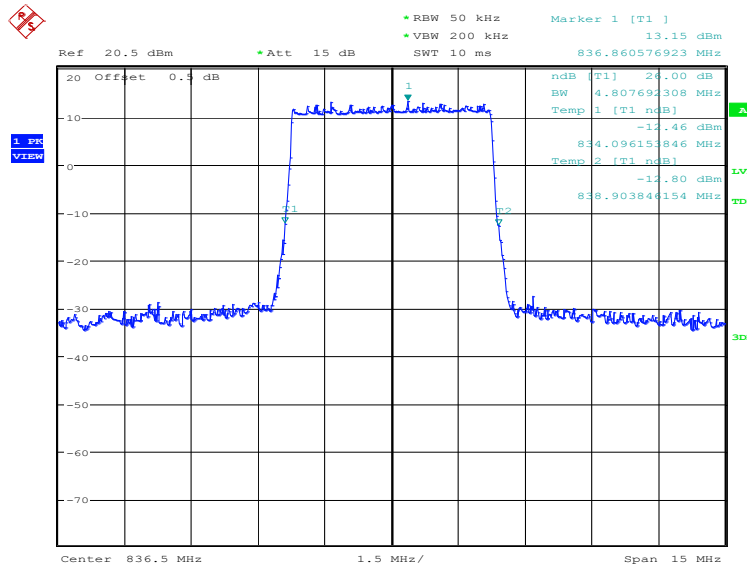
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	4879.81	4807.69

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



Date: 25.MAR.2021 22:02:53

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

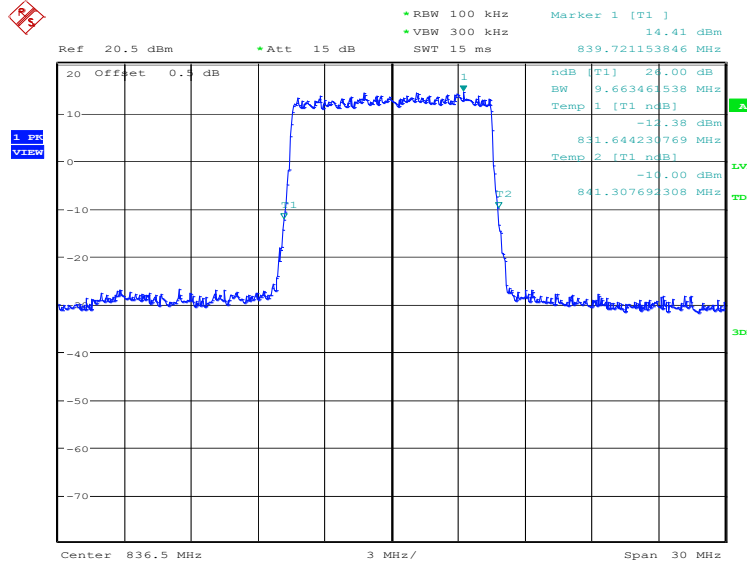


Date: 25.MAR.2021 22:03:33

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

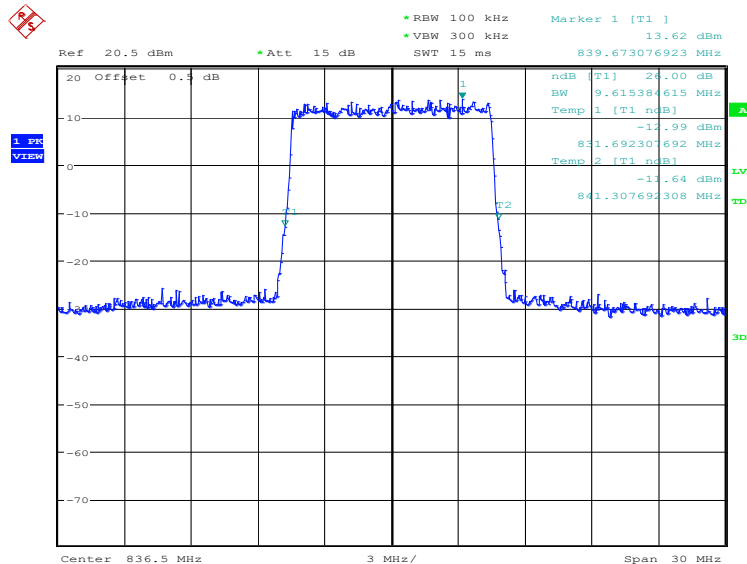
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	9663.46	9615.38

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



Date: 25.MAR.2021 22:05:03

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

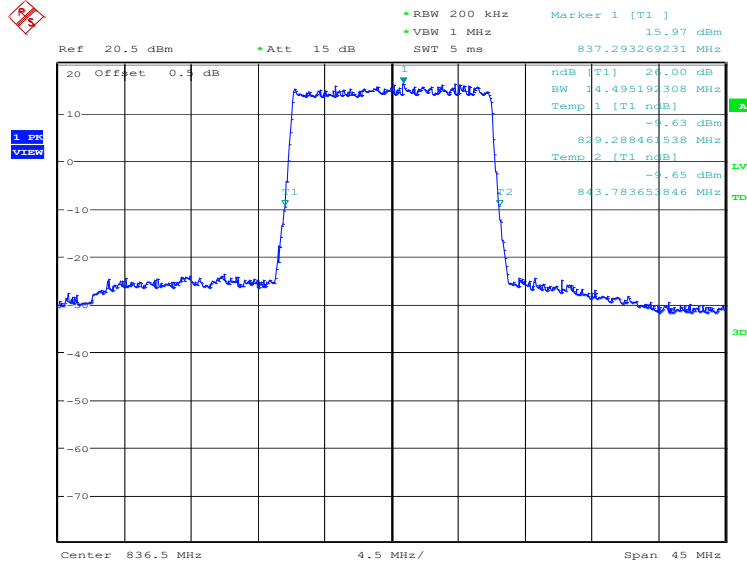


Date: 25.MAR.2021 22:05:44

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

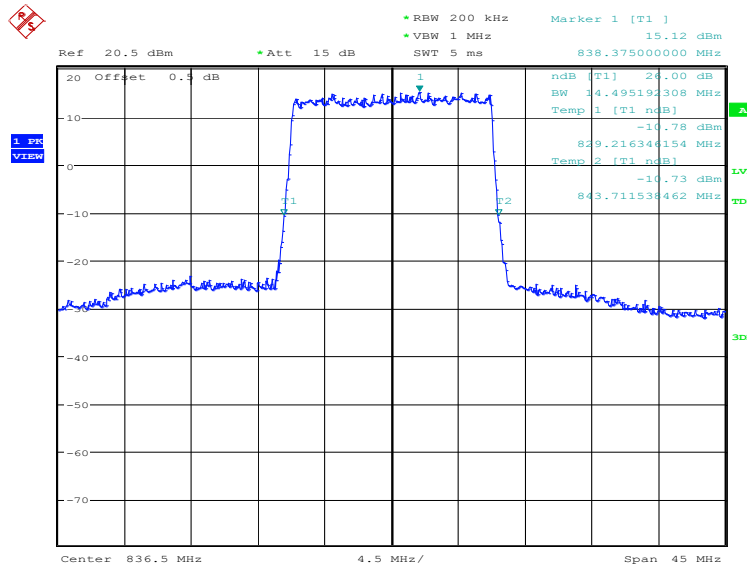
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
836.5	QPSK	16QAM
	14495.19	14495.19

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



Date: 25.MAR.2021 22:07:14

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

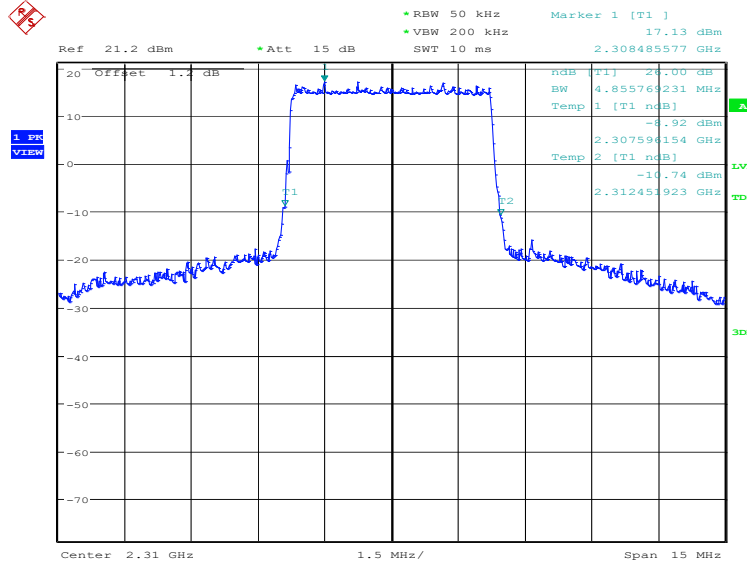


Date: 25.MAR.2021 22:07:55

LTE band 30, 5MHz (-26dBc)

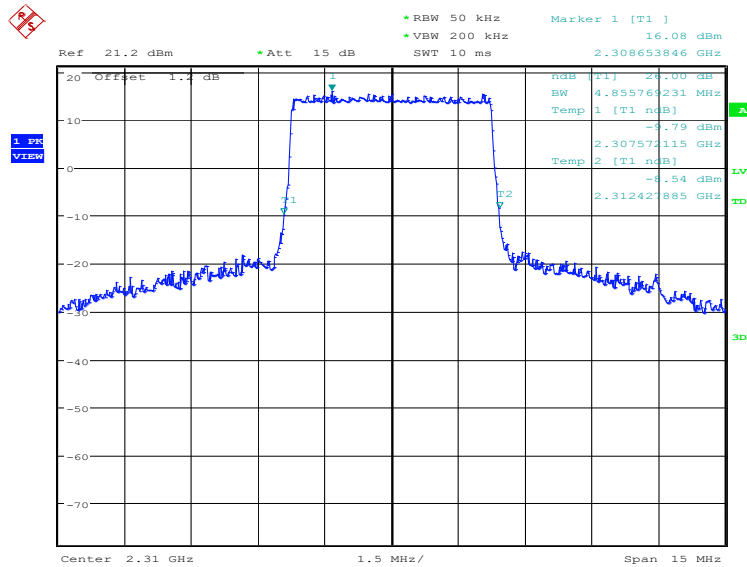
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2310.0	QPSK	16QAM
	4855.77	4855.77

LTE band 30, 5MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.MAR.2021 22:18:00

LTE band 30, 5MHz Bandwidth, 16QAM (-26dBc BW)

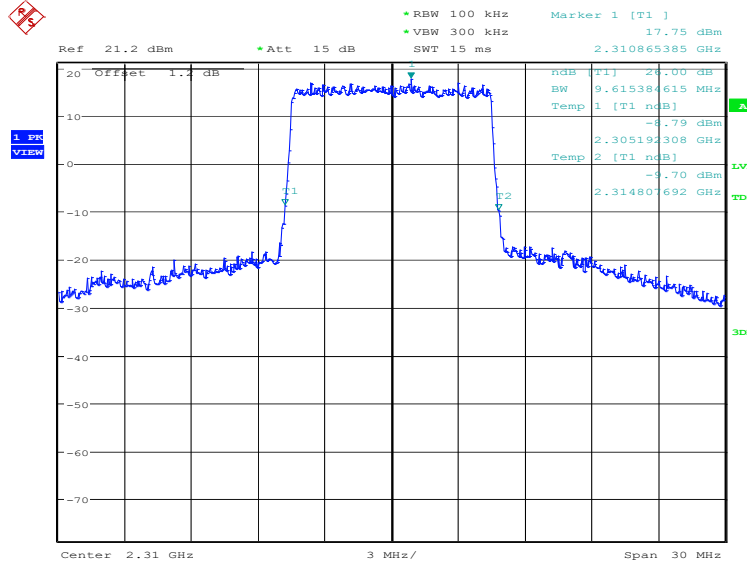


Date: 25.MAR.2021 22:18:41

LTE band 30, 10MHz (-26dBc)

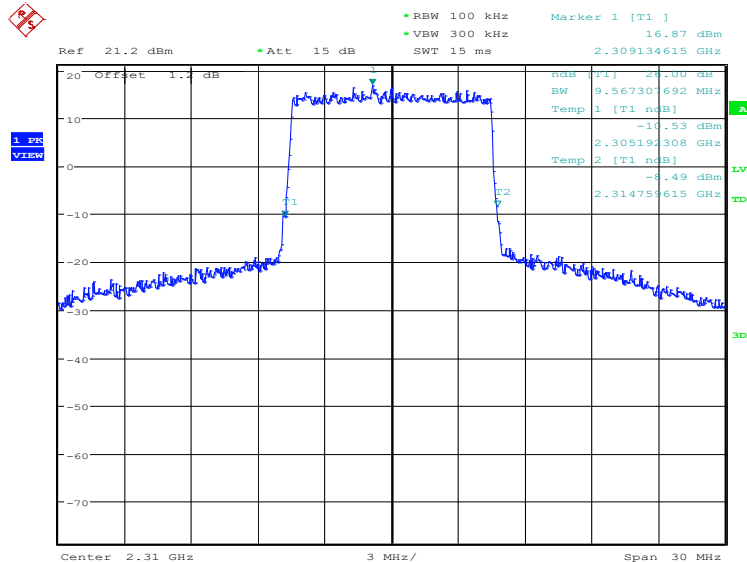
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2310.0	QPSK	16QAM
	9615.38	9567.31

LTE band 30, 10MHz Bandwidth, QPSK (-26dBc BW)



Date: 25.APR.2021 16:52:40

LTE band 30, 10MHz Bandwidth, 16QAM (-26dBc BW)

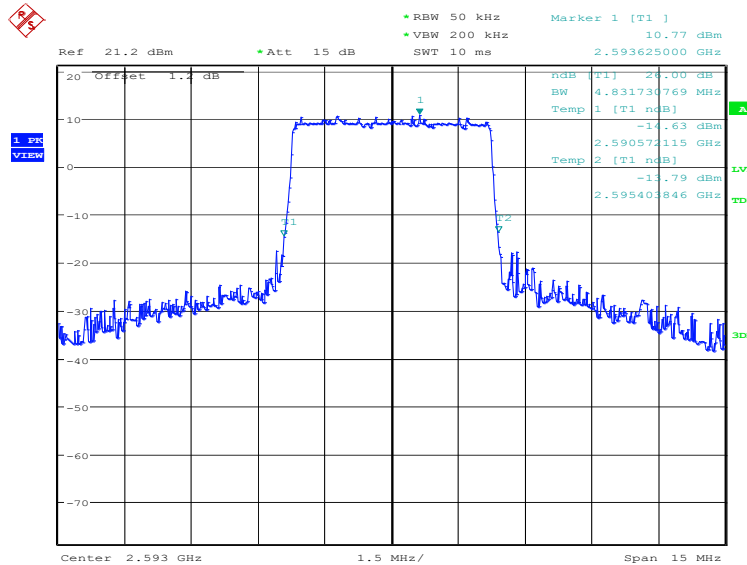


Date: 25.APR.2021 16:53:19

LTE band 41, 5MHz (-26dBc)

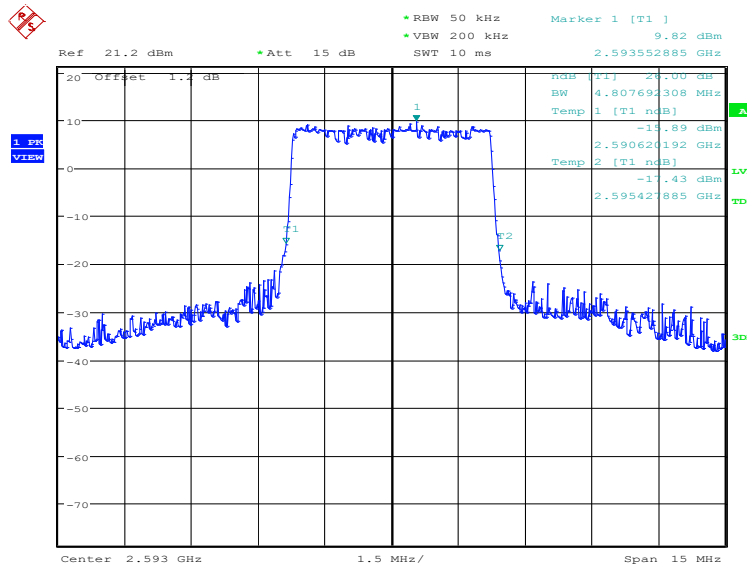
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	4831.73	4807.69

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



Date: 25.APR.2021 16:57:22

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

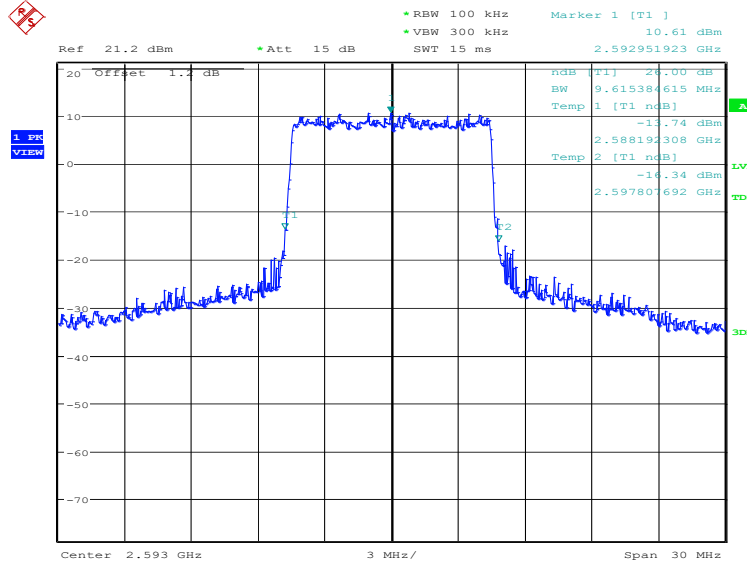


Date: 25.APR.2021 16:58:02

LTE band 41, 10MHz (-26dBc)

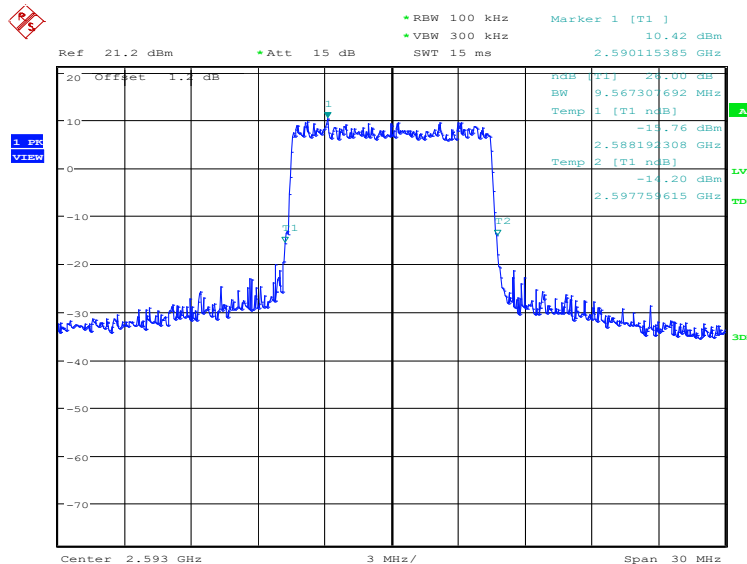
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	9615.38	9567.31

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



Date: 25.MAR.2021 22:36:45

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

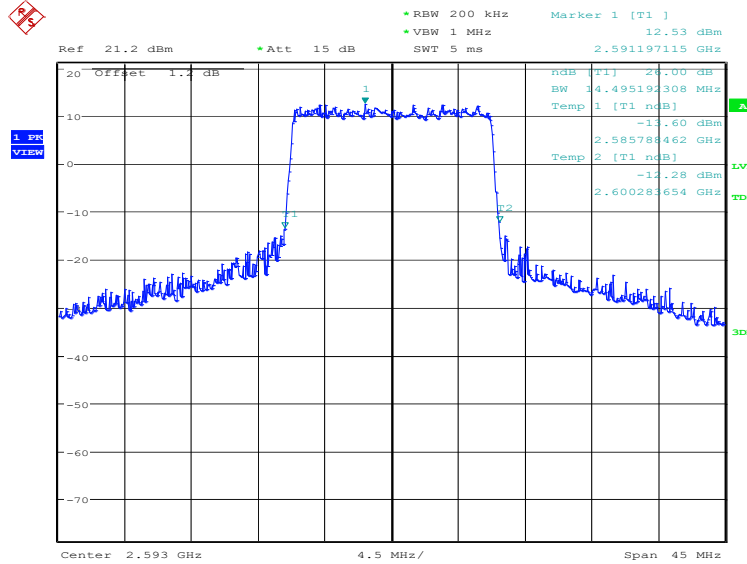


Date: 25.MAR.2021 22:37:25

LTE band 41, 15MHz (-26dBc)

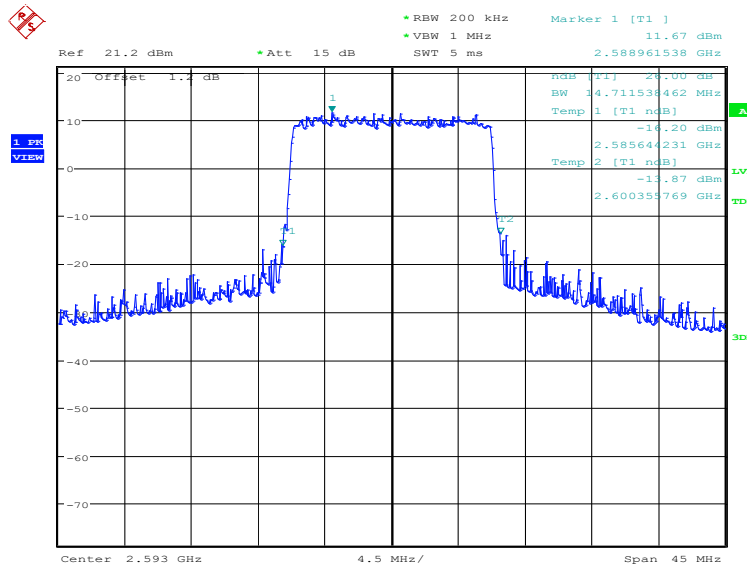
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	14495.19	14711.54

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



Date: 25.MAR.2021 22:38:56

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

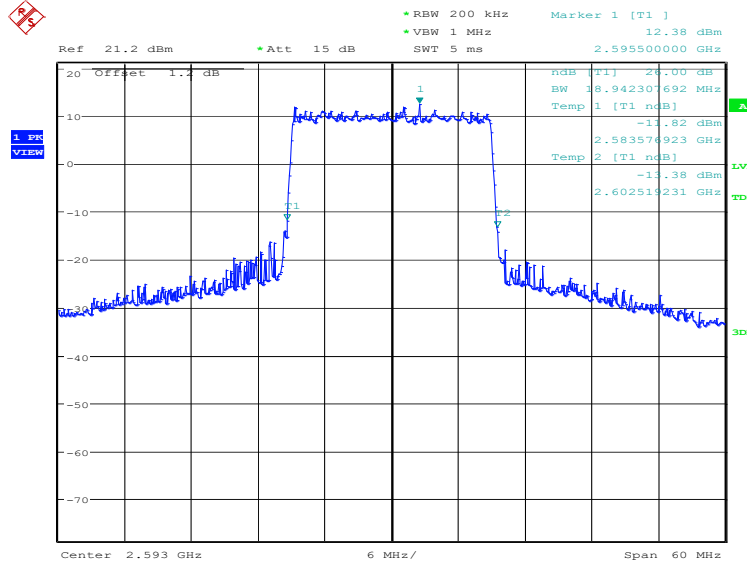


Date: 25.MAR.2021 22:39:37

LTE band 41, 20MHz (-26dBc)

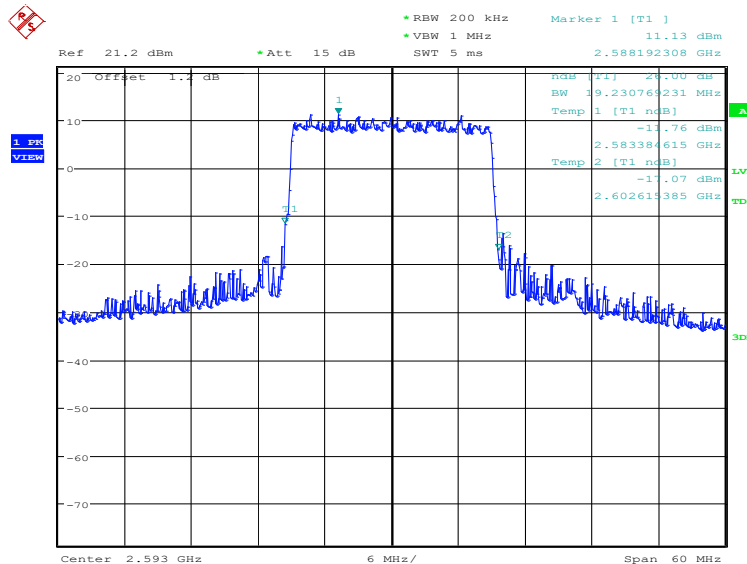
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
2593.0	QPSK	16QAM
	18942.31	19230.77

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



Date: 25.APR.2021 17:02:28

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

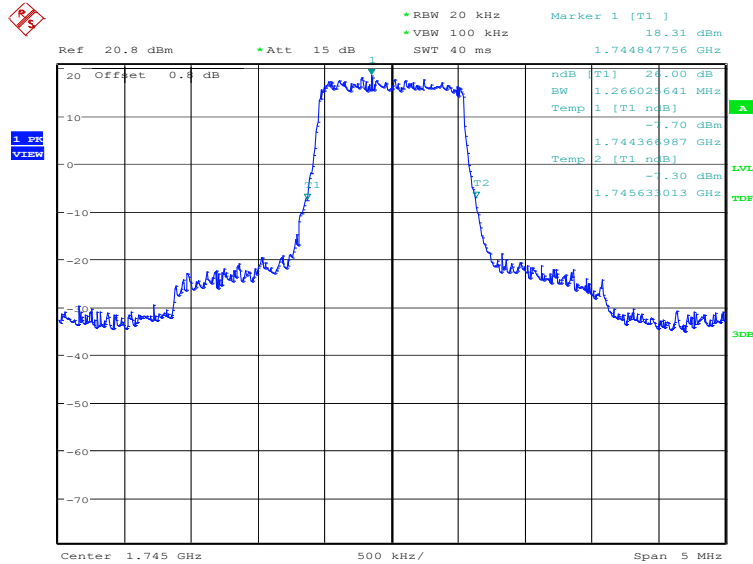


Date: 25.APR.2021 17:03:08

LTE band 66, 1.4MHz (-26dBc)

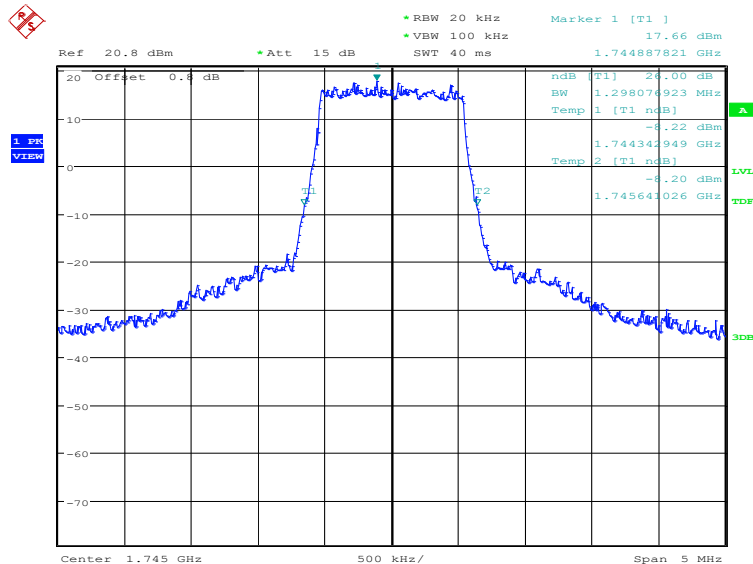
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	1266.03	1298.08

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



Date: 25.MAR.2021 22:22:23

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

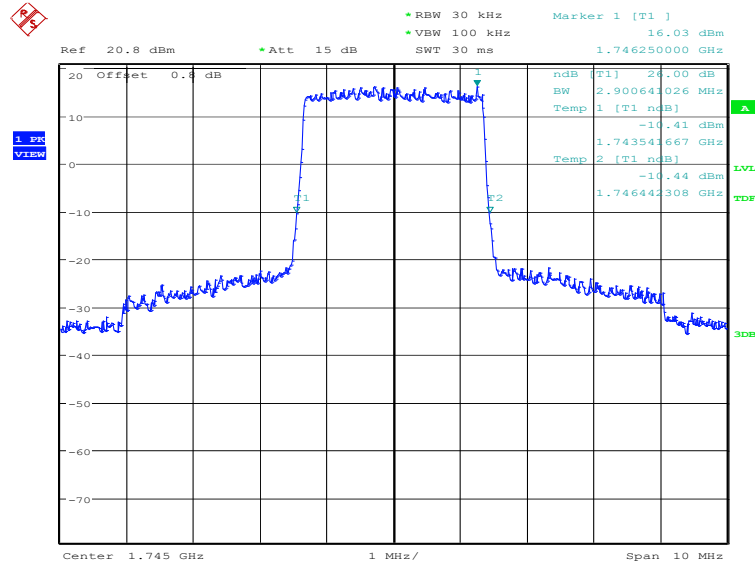


Date: 25.MAR.2021 22:23:04

LTE band 66, 3MHz (-26dBc)

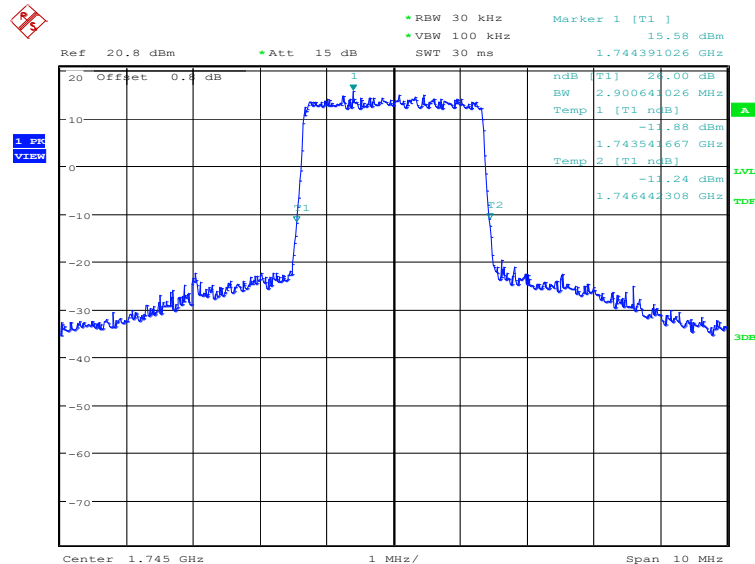
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	2900.64	2900.64

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



Date: 25.APR.2021 17:04:44

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

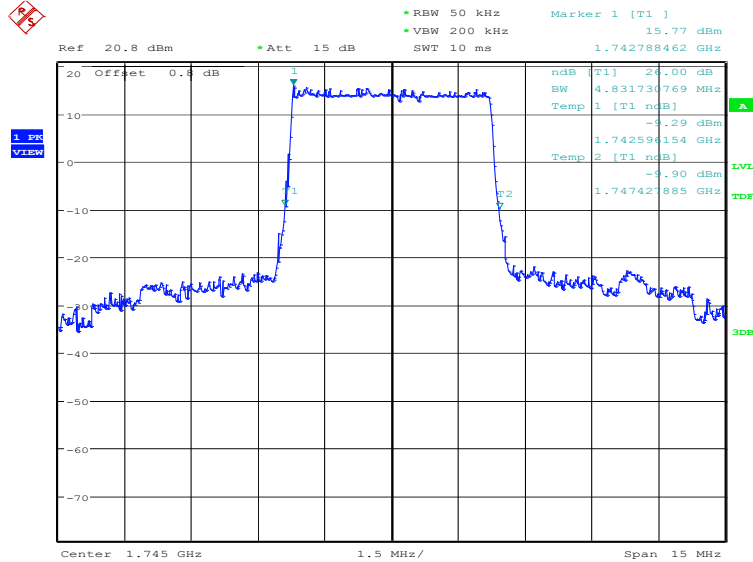


Date: 25.APR.2021 17:05:24

LTE band 66, 5MHz (-26dBc)

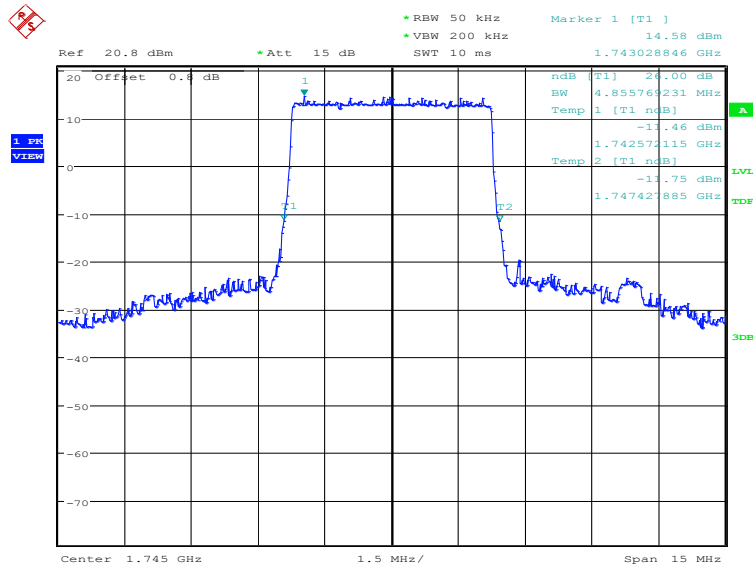
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	4831.73	4855.77

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



Date: 25.MAR.2021 22:26:45

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

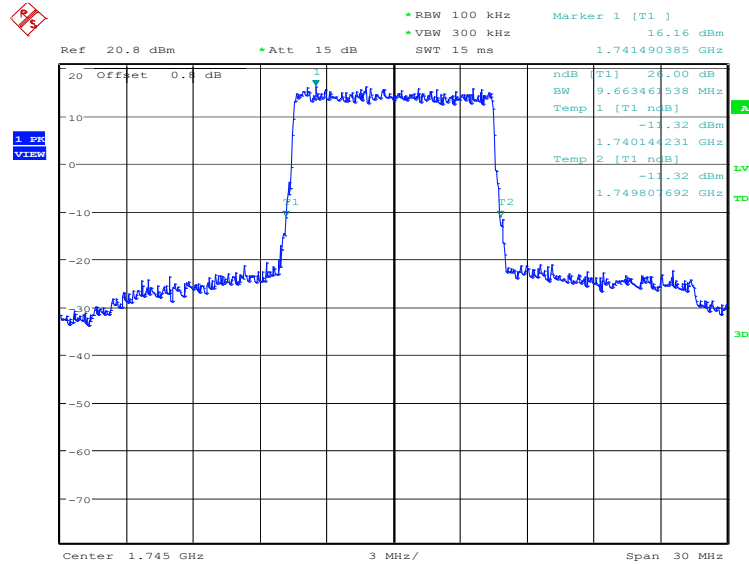


Date: 25.MAR.2021 22:27:26

LTE band 66, 10MHz (-26dBc)

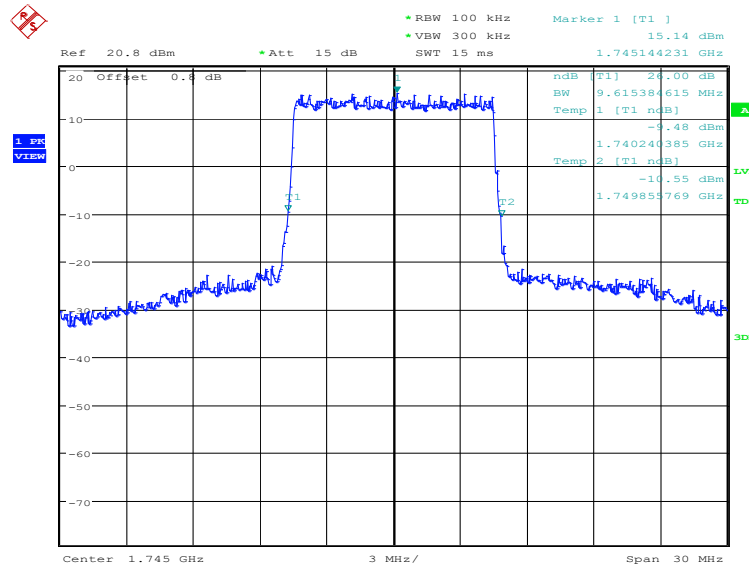
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	9663.46	9615.38

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



Date: 25.MAR.2021 22:28:56

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

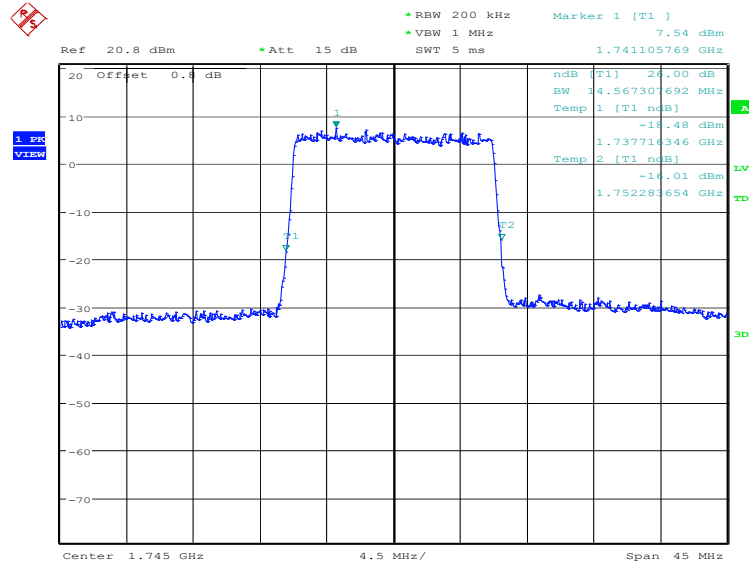


Date: 25.MAR.2021 22:29:37

LTE band 66, 15MHz (-26dBc)

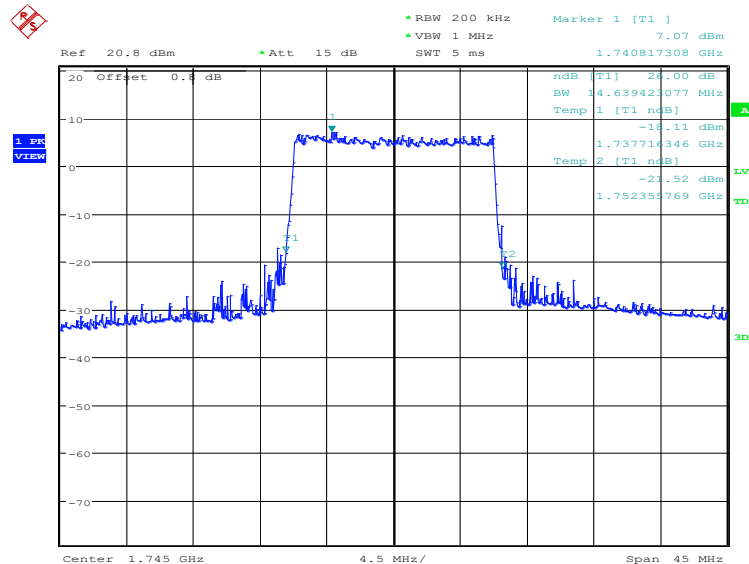
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	14567.31	14639.42

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



Date: 25.MAR.2021 22:31:07

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

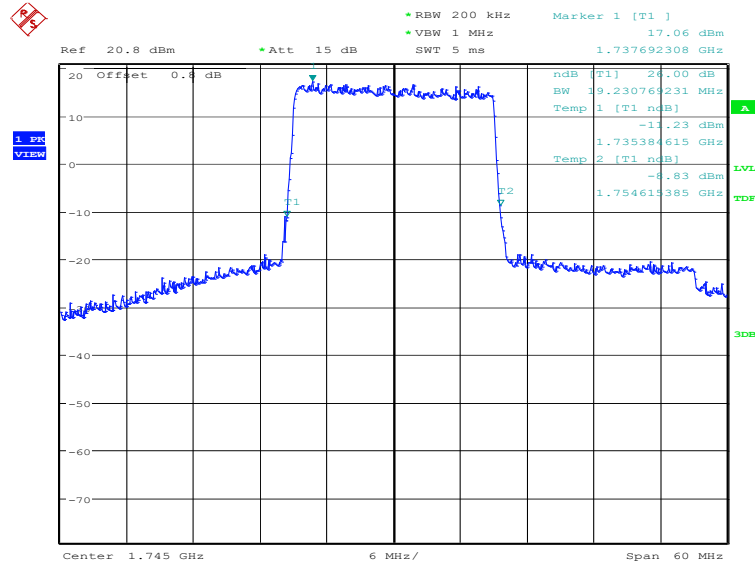


Date: 25.MAR.2021 22:31:48

LTE band 66, 20MHz (-26dBc)

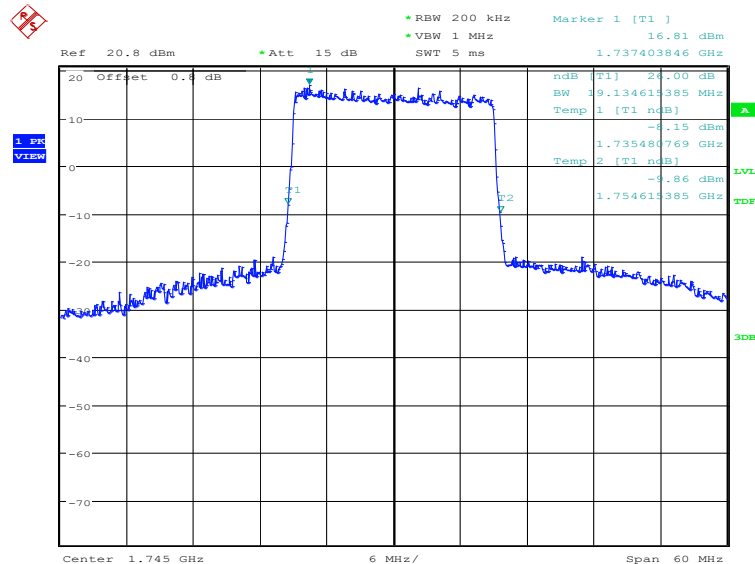
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
1745.0	QPSK	16QAM
	19230.77	19134.62

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



Date: 25.MAR.2021 22:33:18

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

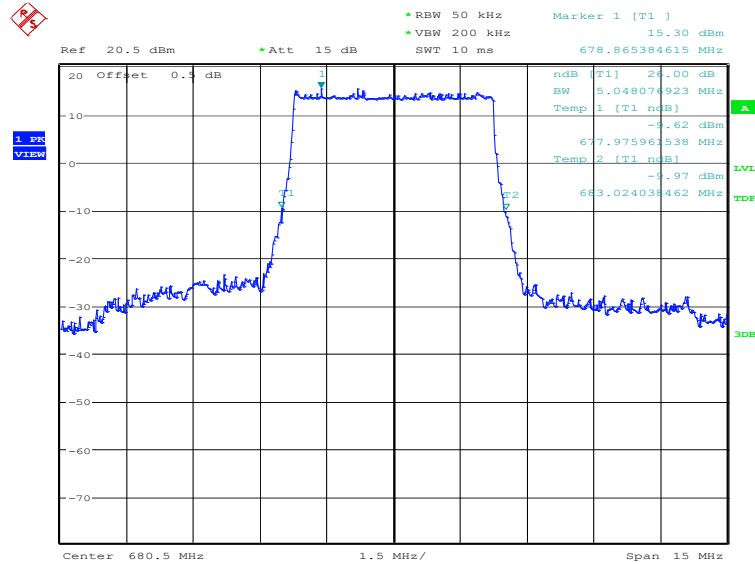


Date: 25.MAR.2021 22:33:59

LTE band 71, 5MHz (-26dBc)

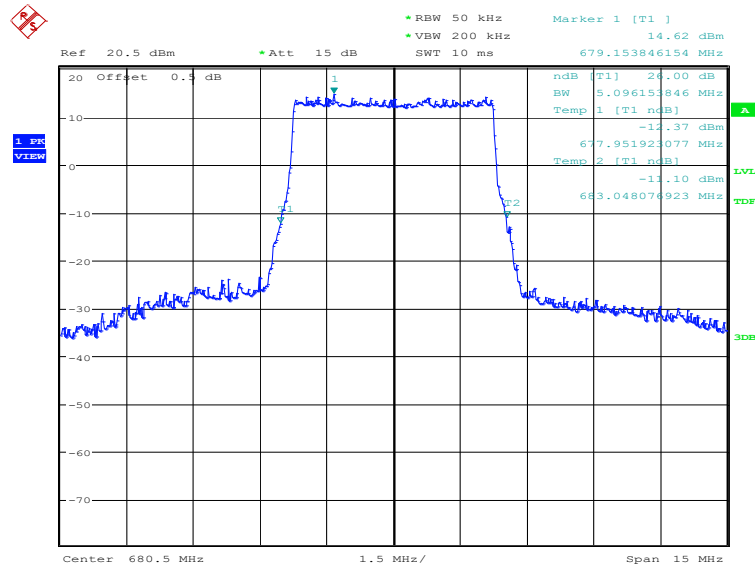
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	5048.08	5096.15

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



Date: 25.MAR.2021 20:32:02

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

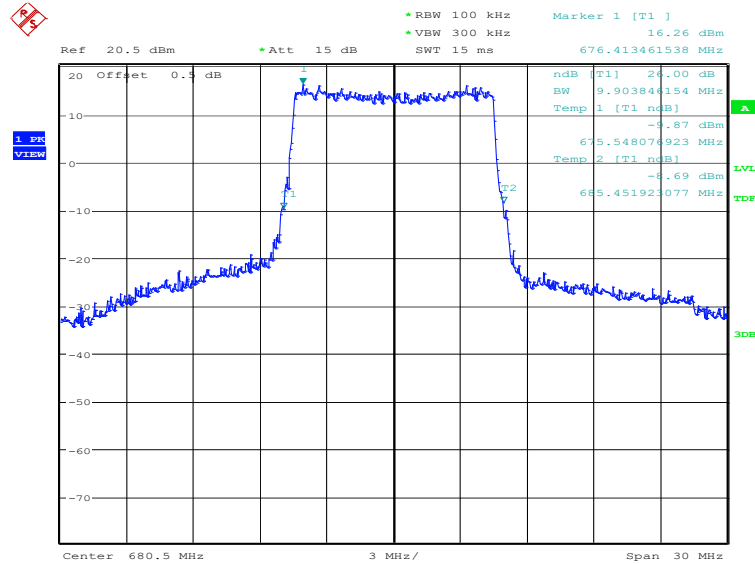


Date: 25.MAR.2021 20:32:42

LTE band 71, 10MHz (-26dBc)

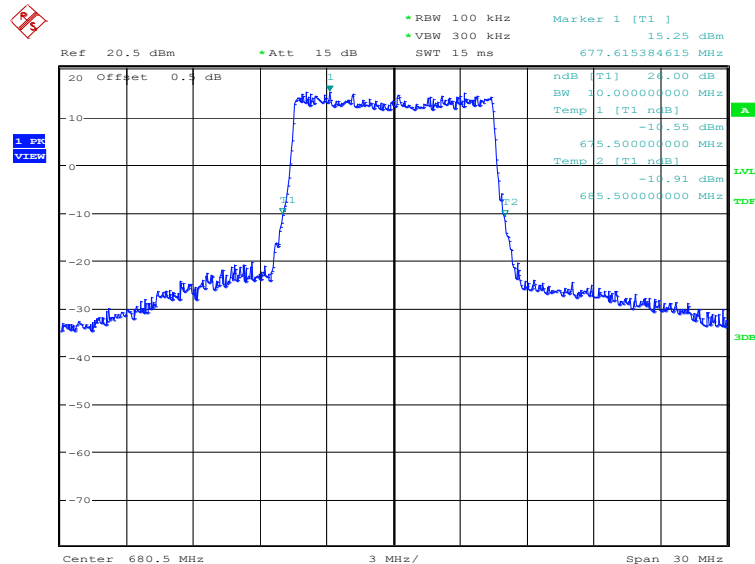
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	9903.85	10000.00

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



Date: 25.MAR.2021 20:34:11

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

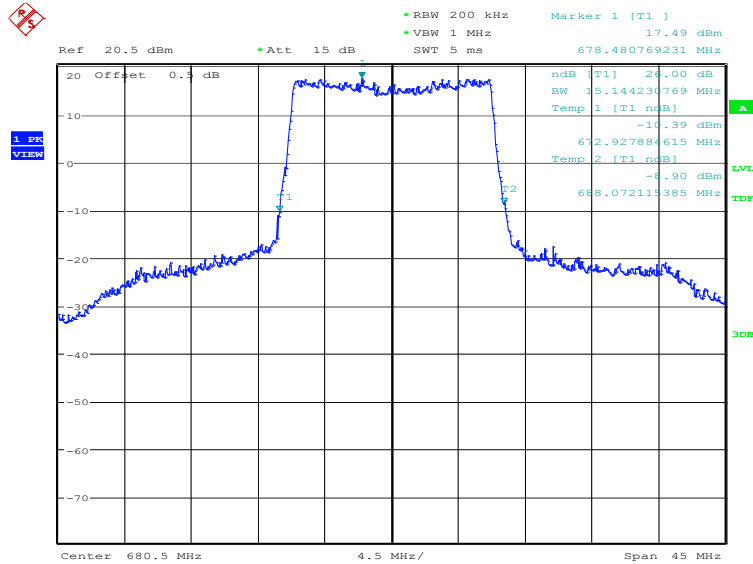


Date: 25.MAR.2021 20:34:52

LTE band 71, 15MHz (-26dBc)

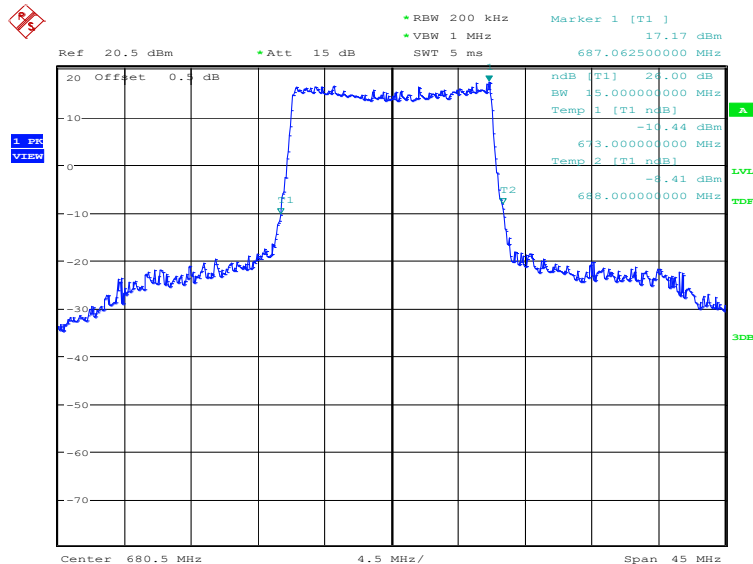
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	15144.23	15000.00

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



Date: 25.MAR.2021 20:36:21

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

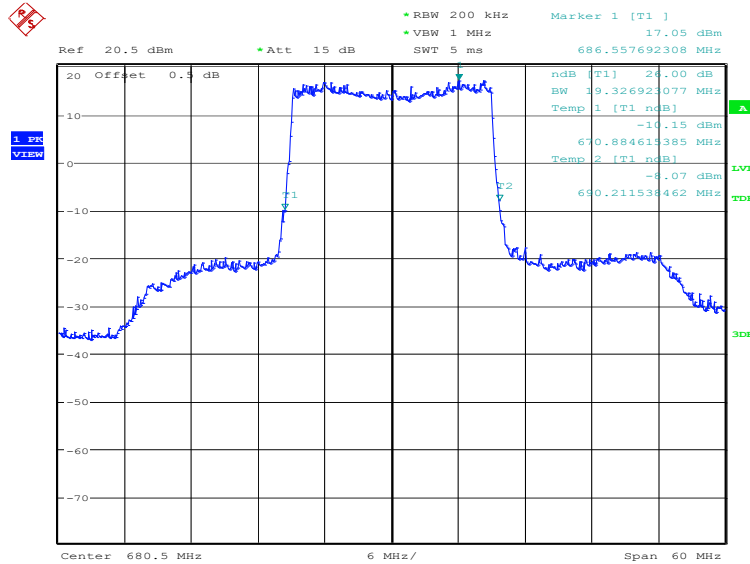


Date: 25.MAR.2021 20:37:02

LTE band 71, 20MHz (-26dBc)

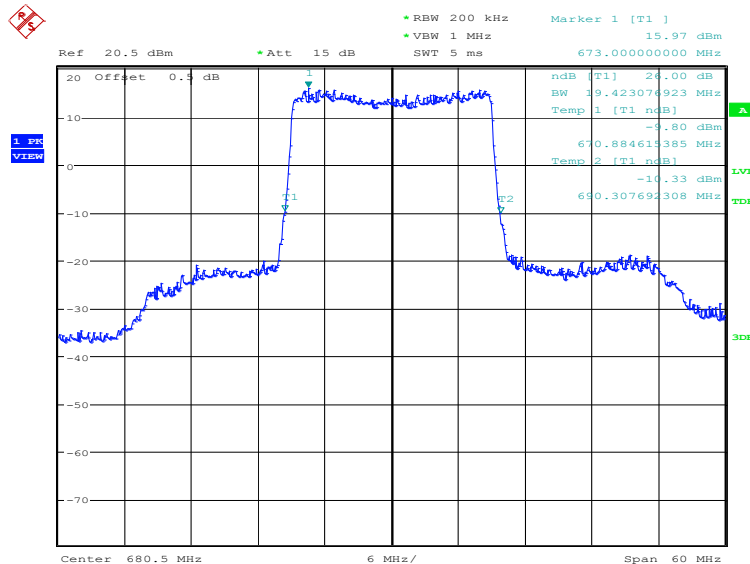
Frequency(MHz)	Emission Bandwidth (-26dBc)(kHz)	
680.5	QPSK	16QAM
	19326.92	19423.08

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



Date: 25.MAR.2021 20:38:31

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



Date: 25.MAR.2021 20:39:12

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.

Part 27.53(m) 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 than $43 + 10 \log(P)$ 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 27.53(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz; By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all

frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

Part 90.543 states that for operations in the 758–768 MHz and the 788–798 MHz bands, 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 all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations. (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations. (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB. (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment. (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 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 $116 \log_{10}(f/6.1)$ 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 $43 + 10 \log_{10}(P)$ 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 37.5 kHz.

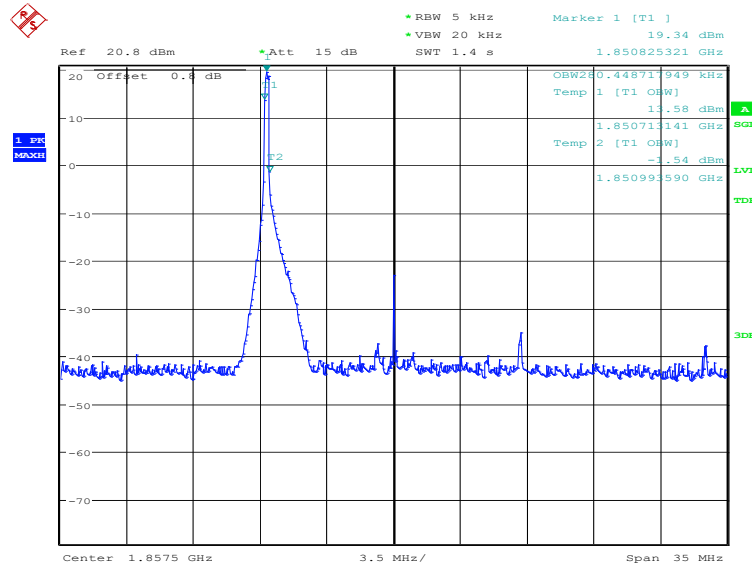
The spectrum analyzer readings are corrected by $[10 \log (1/\text{duty cycle})]$ for the non-continuous transmitting scenario.

A.6.2 Measurement result

Only the worst case result is given below

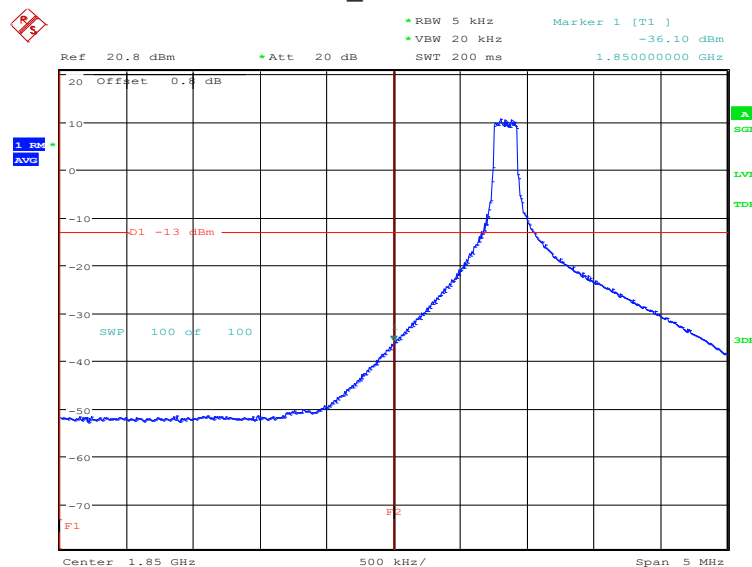
LTE band 2

OBW: 1RB-low_offset



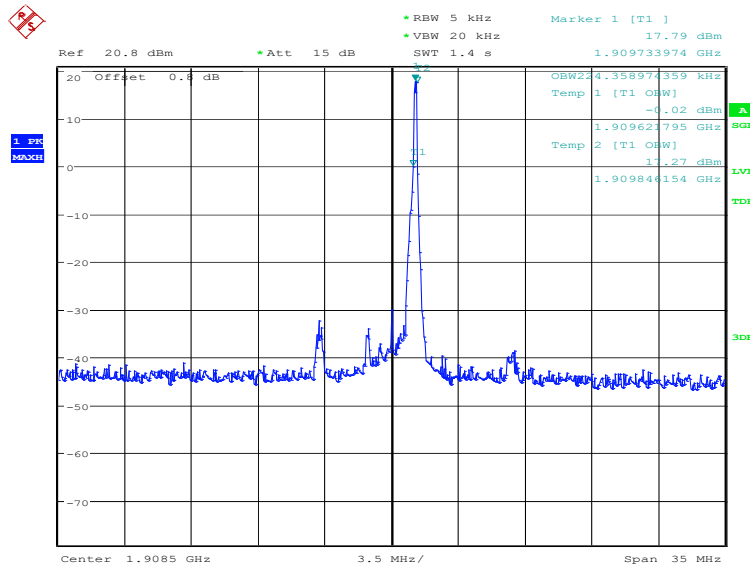
Date: 25.APR.2021 10:50:26

LOW BAND EDGE BLOCK-1RB-low_offset



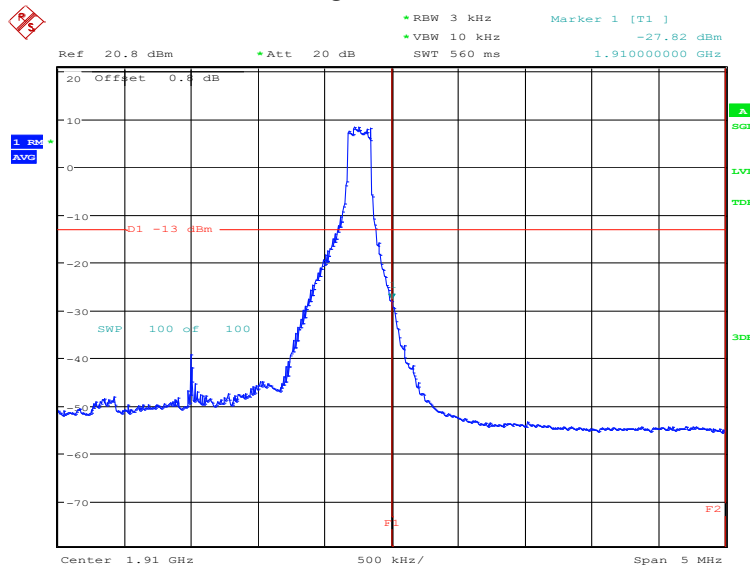
Date: 25.APR.2021 10:51:40

OBW: 1RB-high_offset



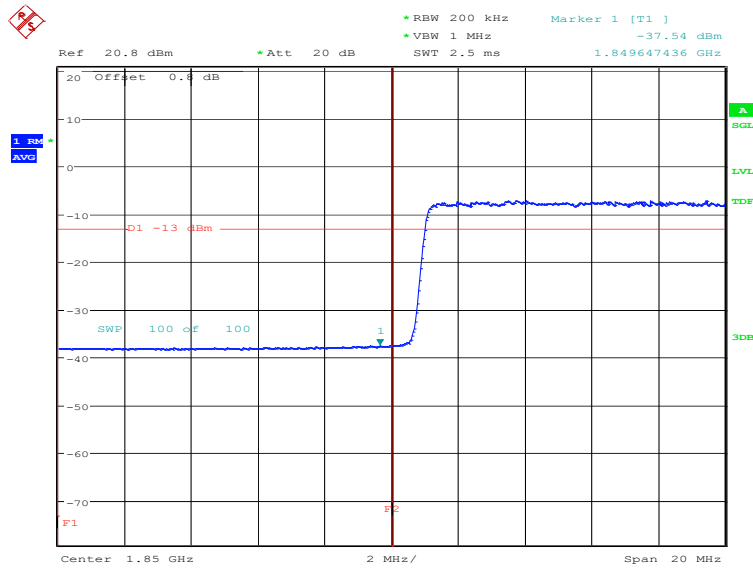
Date: 25.APR.2021 10:52:56

HIGH BAND EDGE BLOCK-1RB-high_offset



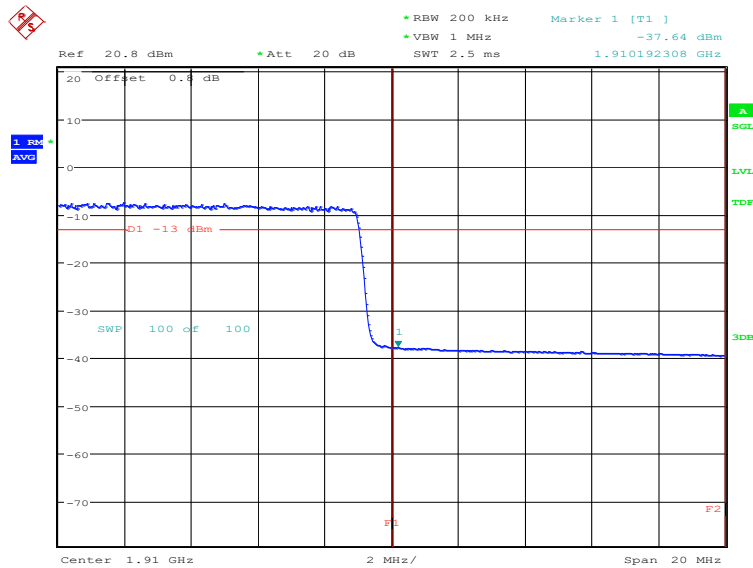
Date: 25.APR.2021 10:54:09

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 25.MAR.2021 22:45:46

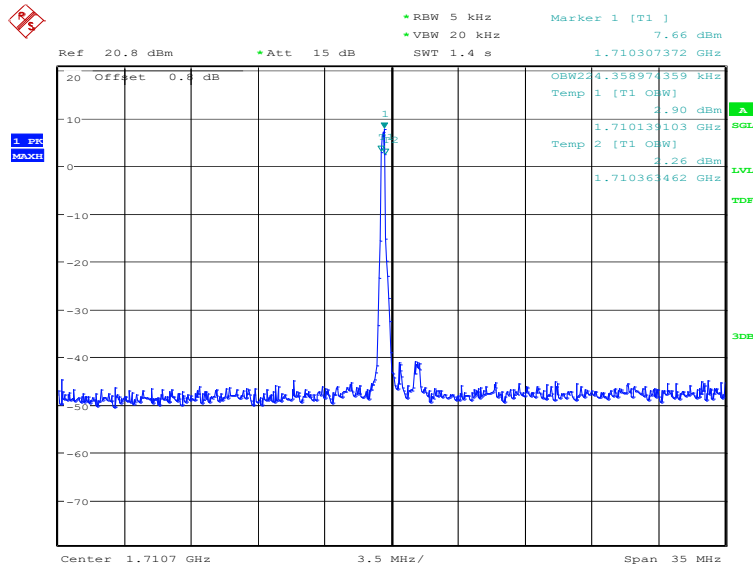
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 25.MAR.2021 22:47:10

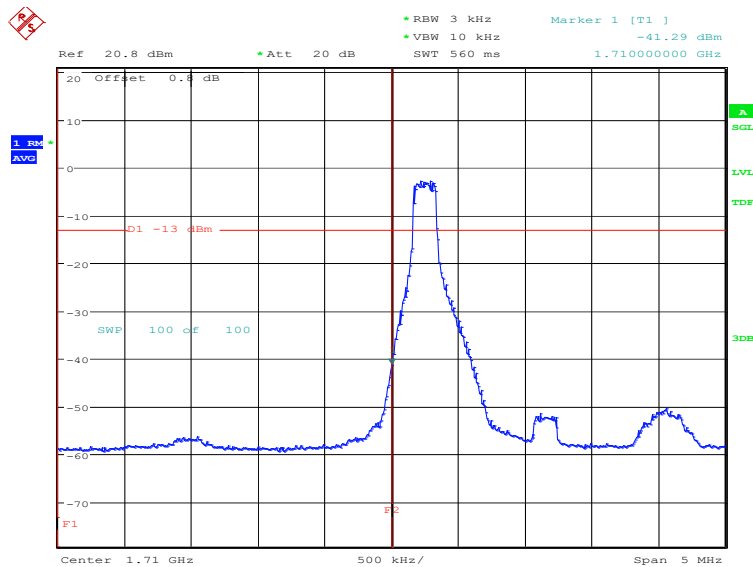
LTE band 4

OBW: 1RB-low_offset



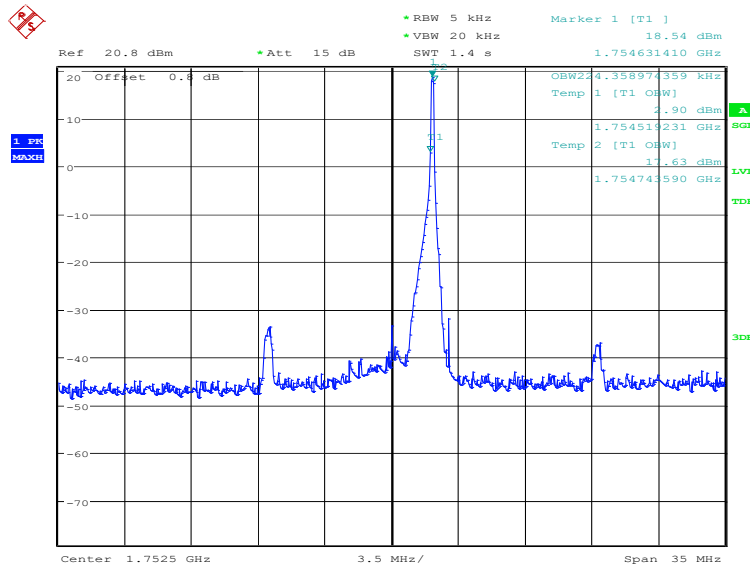
Date: 25.APR.2021 10:55:25

LOW BAND EDGE BLOCK-1RB-low_offset



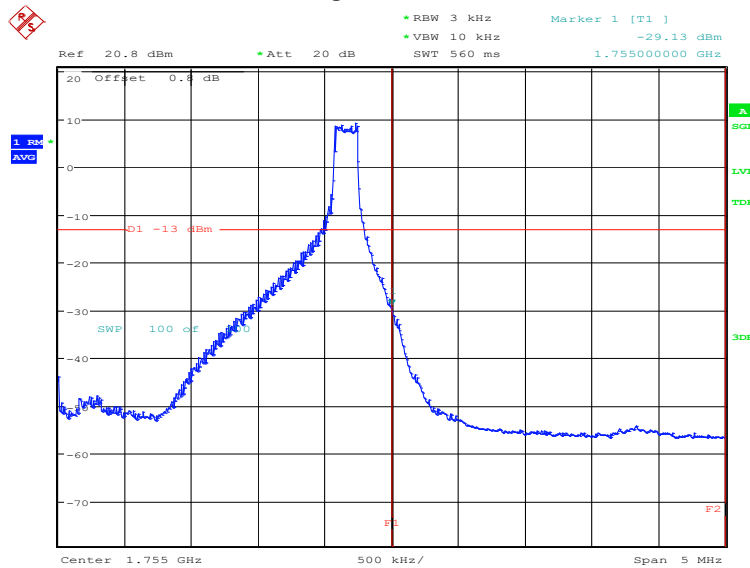
Date: 25.APR.2021 10:56:39

OBW: 1RB-high_offset



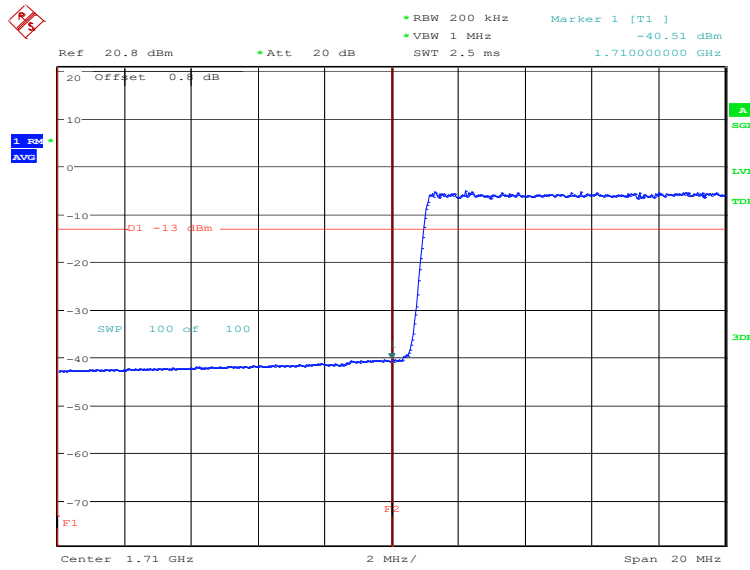
Date: 25.APR.2021 10:58:04

HIGH BAND EDGE BLOCK-1RB-high_offset



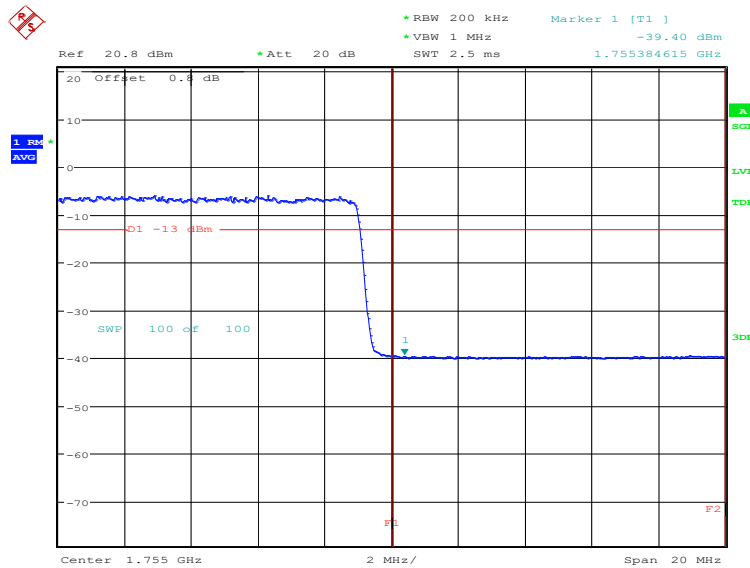
Date: 25.APR.2021 10:59:18

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 25.MAR.2021 22:48:35

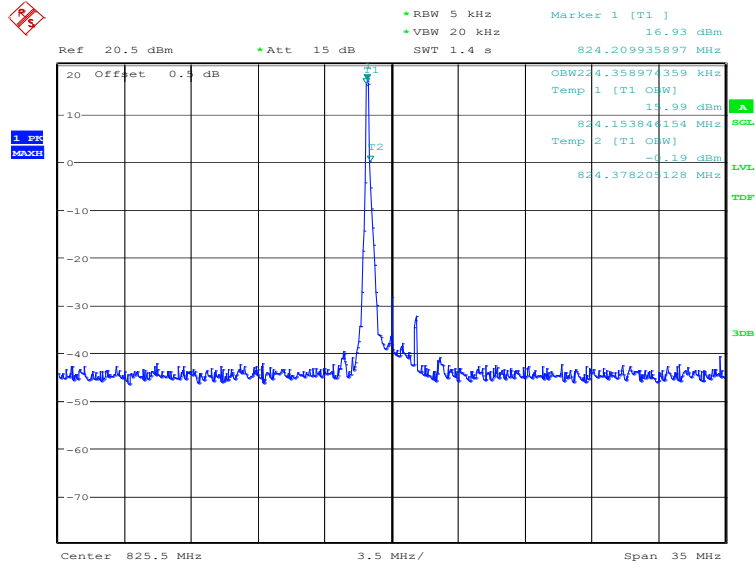
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 25.MAR.2021 22:49:59

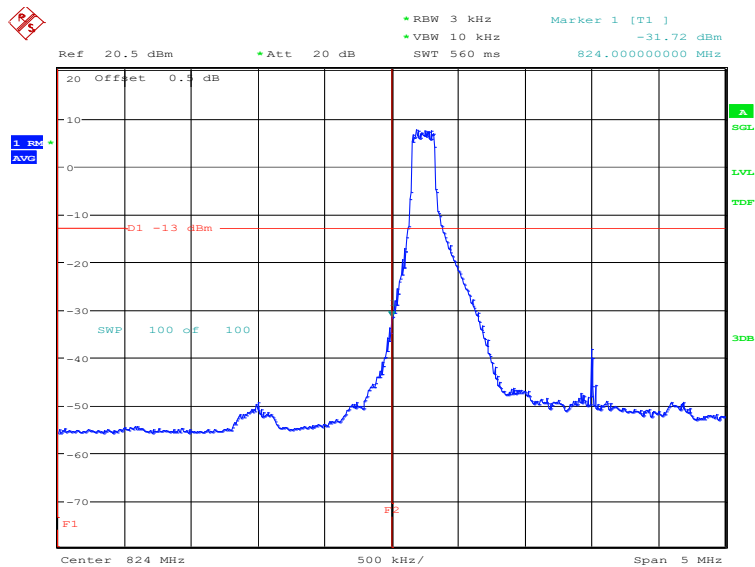
LTE band 5

OBW: 1RB-low_offset



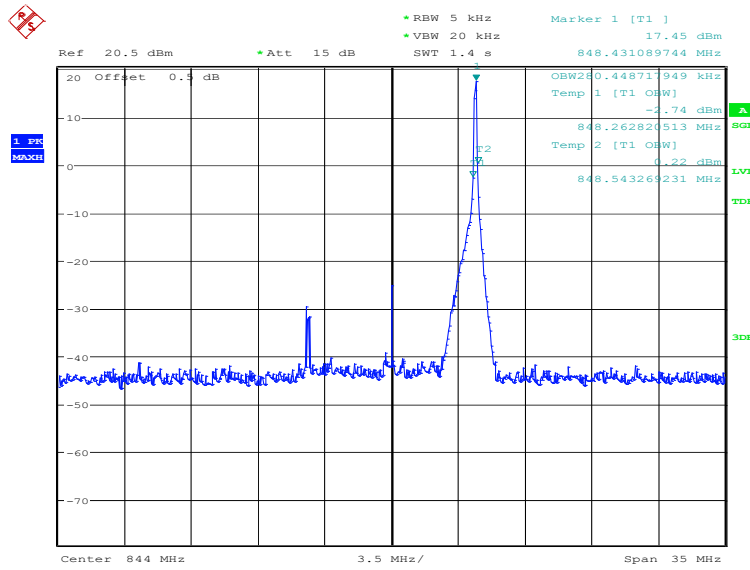
Date: 25.APR.2021 17:15:17

LOW BAND EDGE BLOCK-1RB-low_offset



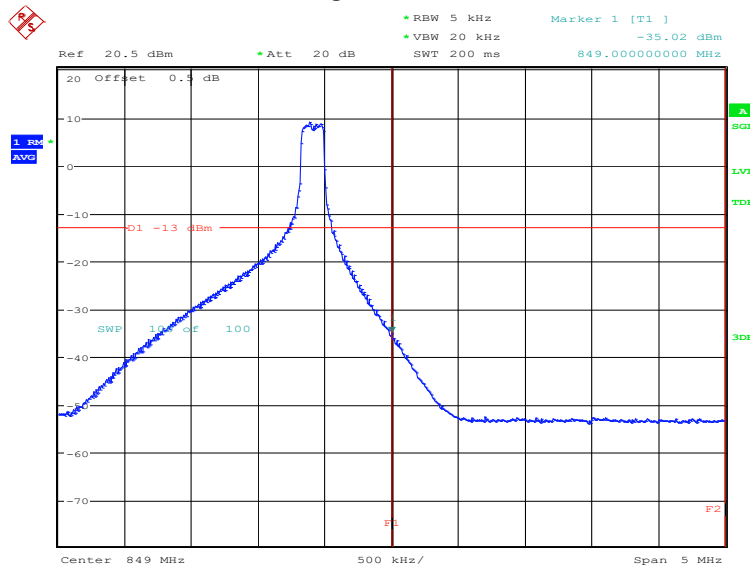
Date: 25.APR.2021 17:16:33

OBW: 1RB-high_offset



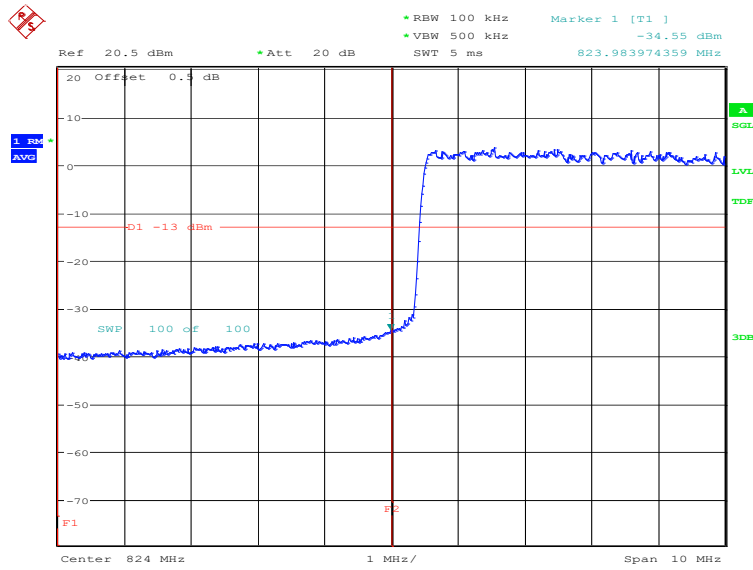
Date: 25.APR.2021 11:02:30

HIGH BAND EDGE BLOCK-1RB-high_offset



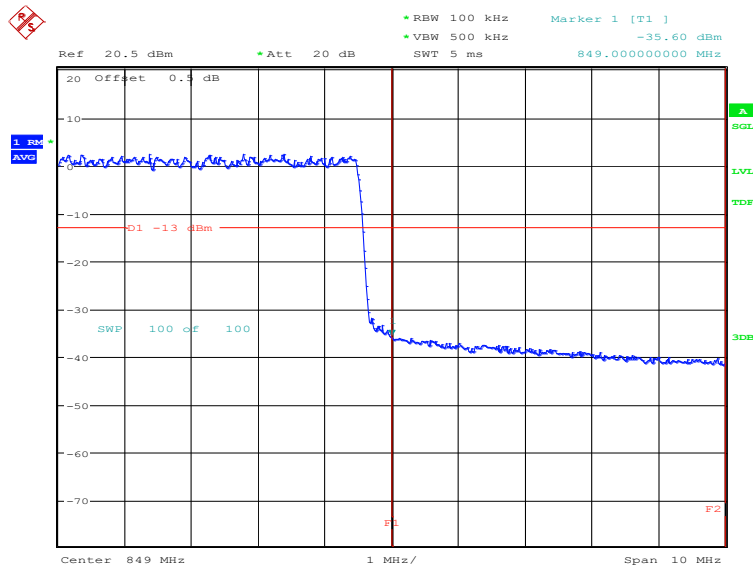
Date: 25.APR.2021 11:03:44

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 25.MAR.2021 22:52:03

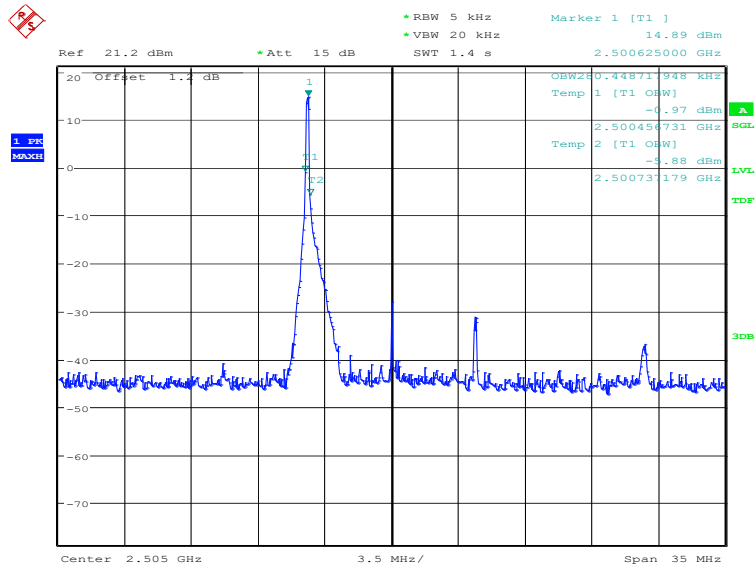
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 25.MAR.2021 22:53:26

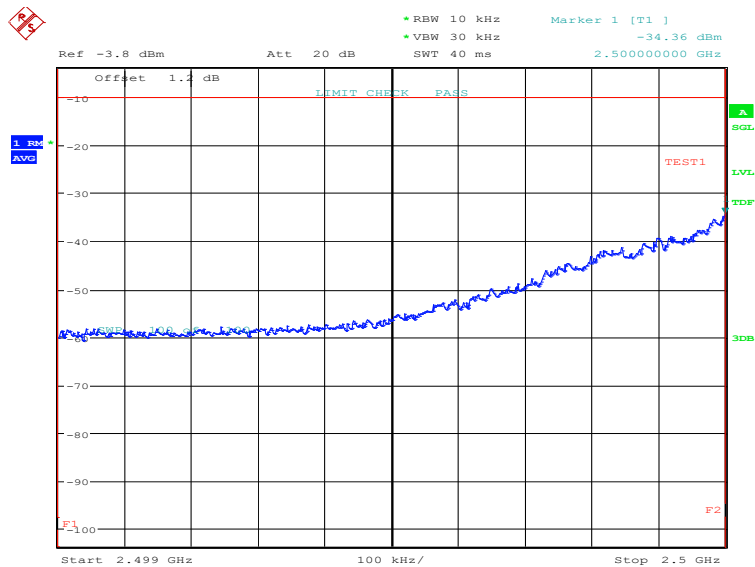
LTE band 7

OBW: 1RB-low_offset

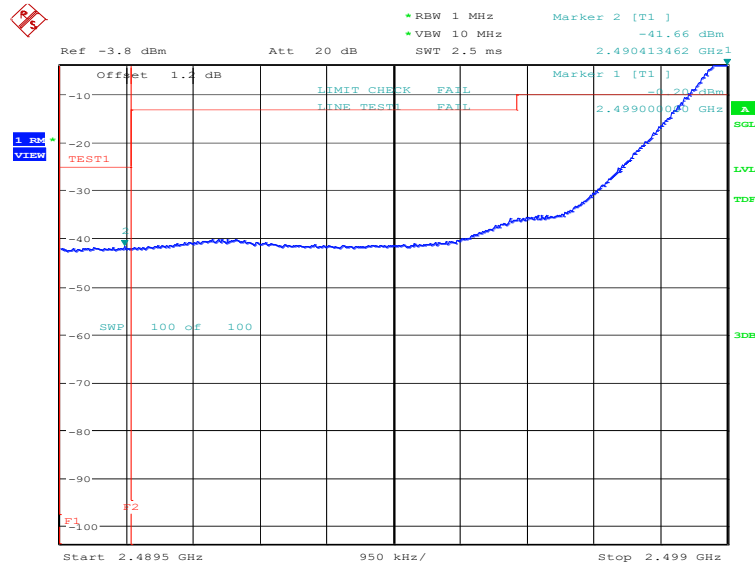


Date: 25.APR.2021 11:04:21

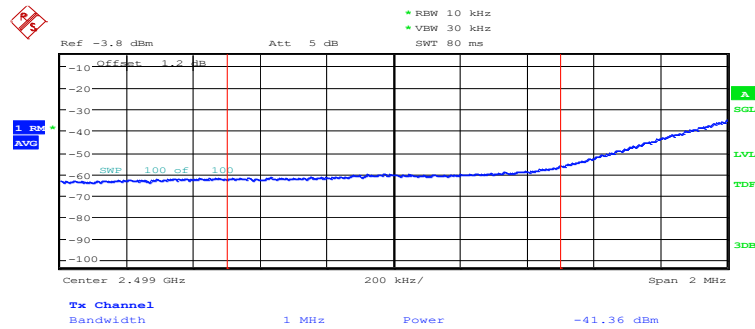
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 25.APR.2021 11:05:42

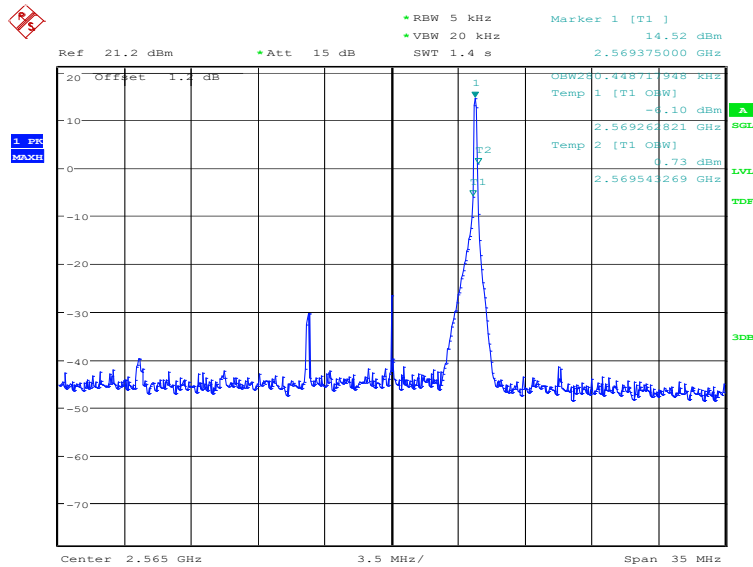


Date: 25.APR.2021 11:07:30



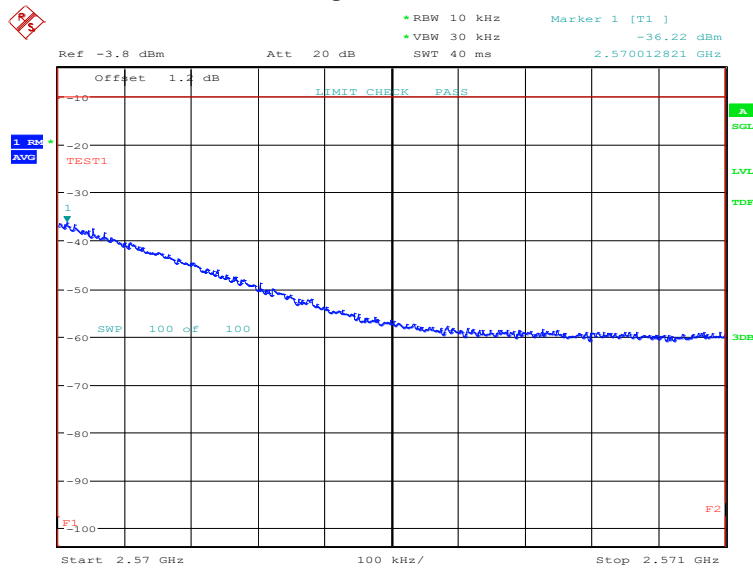
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OBW: 1RB-high_offset

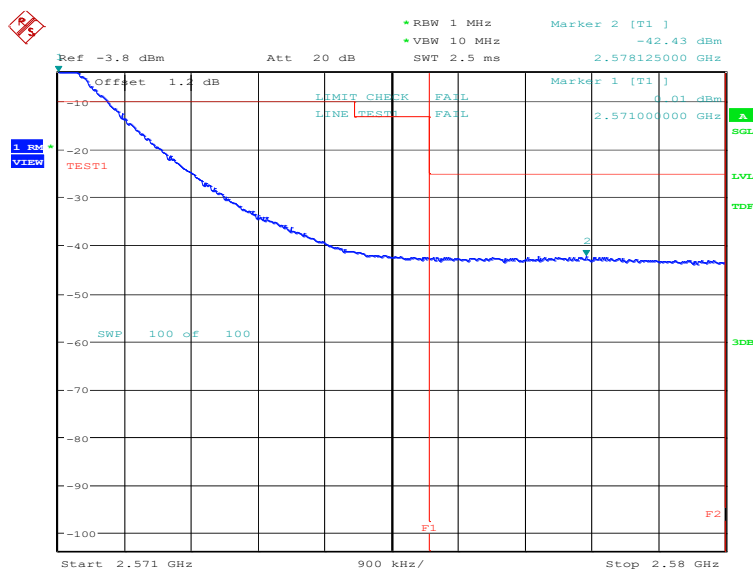


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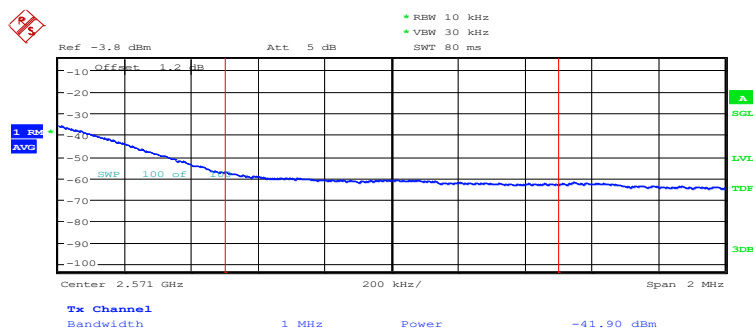
HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 25.APR.2021 11:09:53

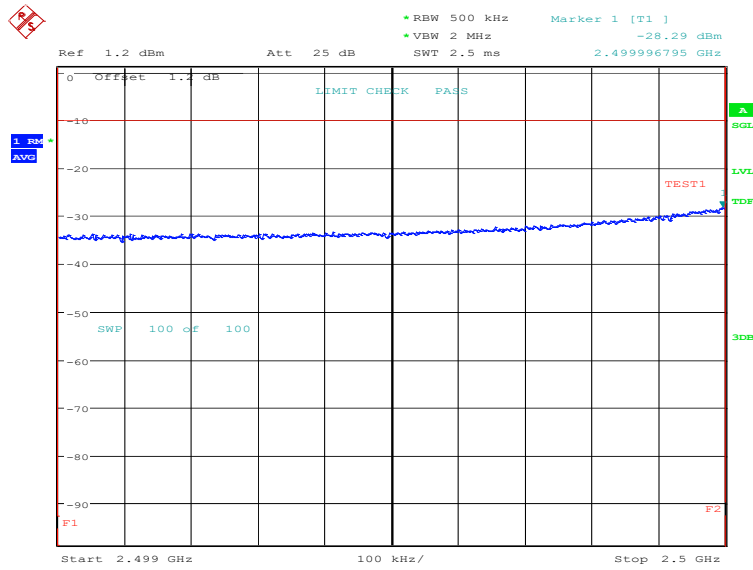


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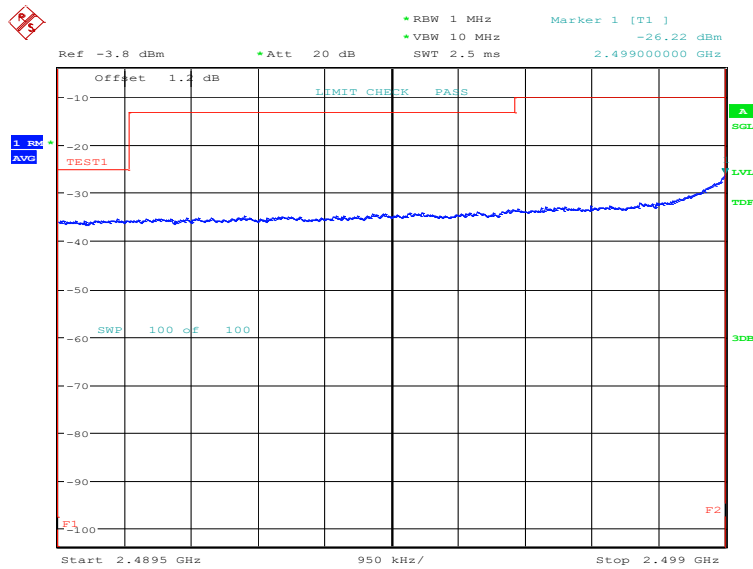


Date: 25.APR.2021 11:12:09

LOW BAND EDGE BLOCK-20MHz-100%RB

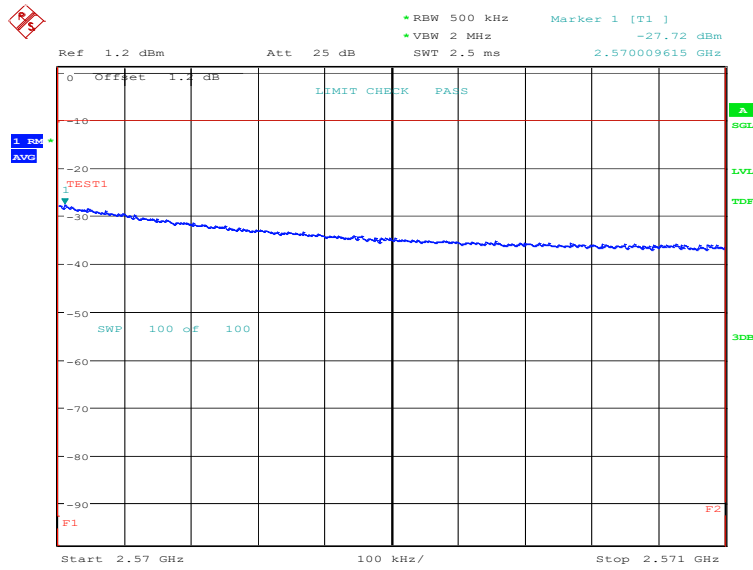


Date: 26.MAR.2021 09:50:14

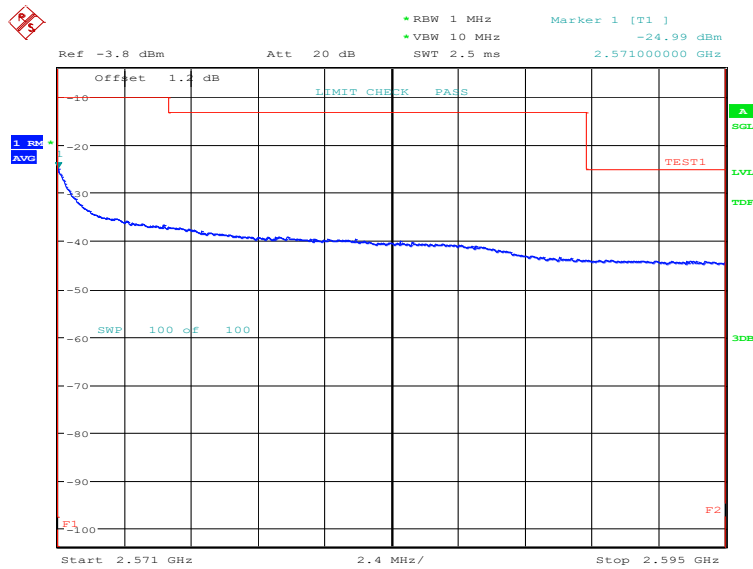


Date: 26.MAR.2021 09:51:53

HIGH BAND EDGE BLOCK-20MHz-100%RB



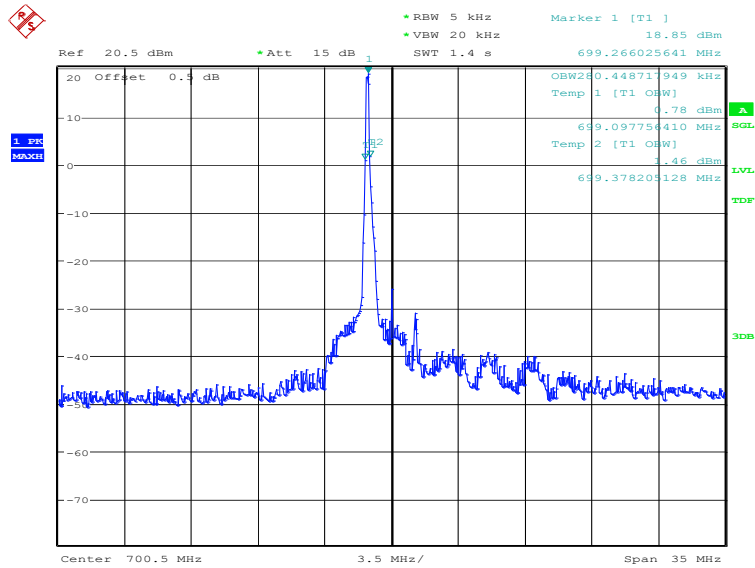
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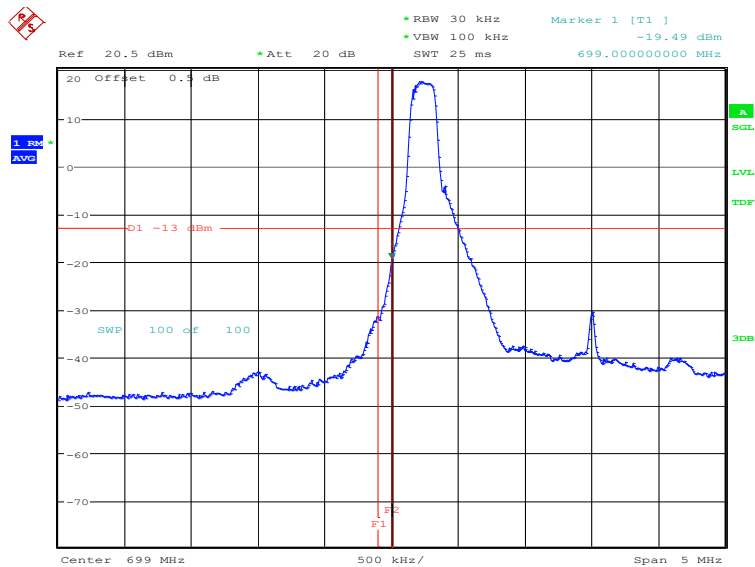
LTE band 12

OBW: 1RB-low_offset



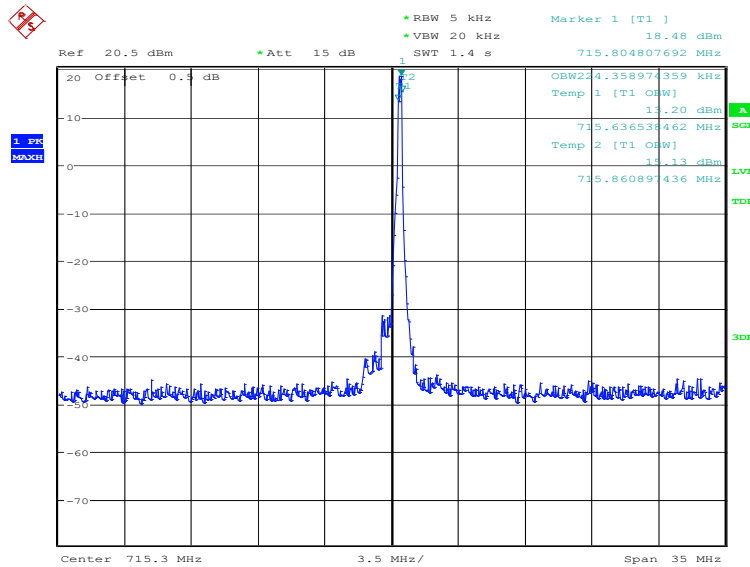
Date: 25.APR.2021 11:13:24

LOW BAND EDGE BLOCK-1RB-low_offset



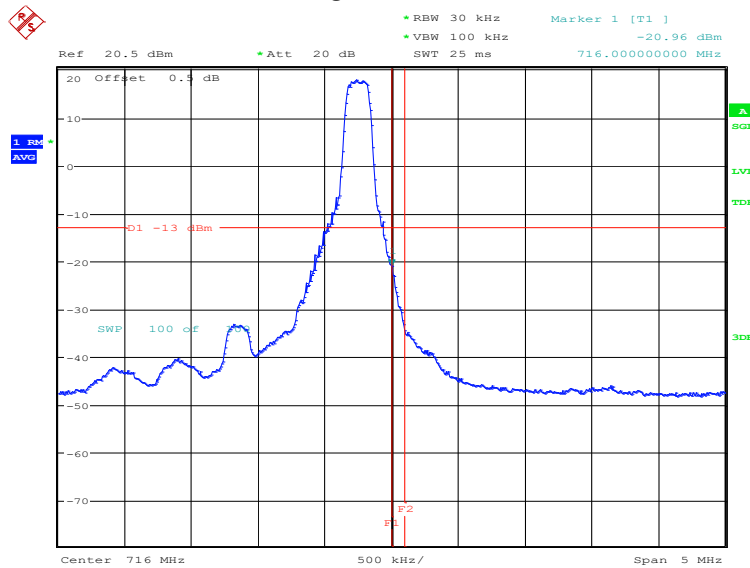
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OBW: 1RB-high_offset



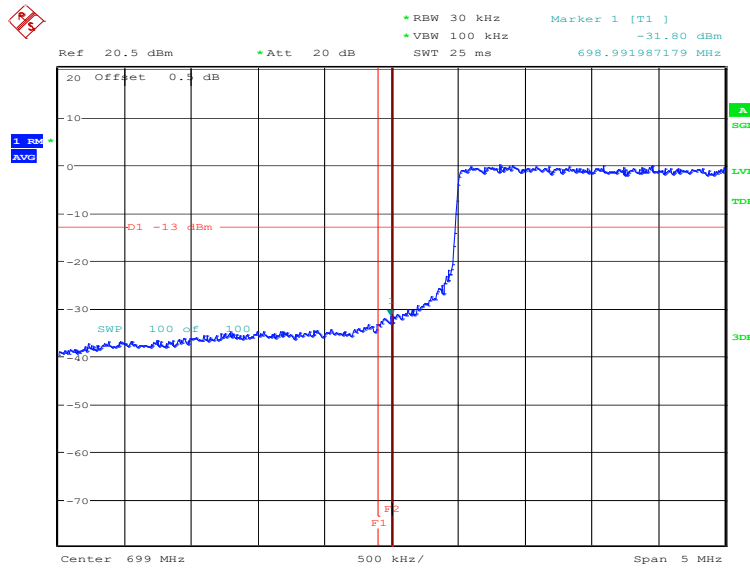
Date: 25.APR.2021 11:15:00

HIGH BAND EDGE BLOCK-1RB-high_offset



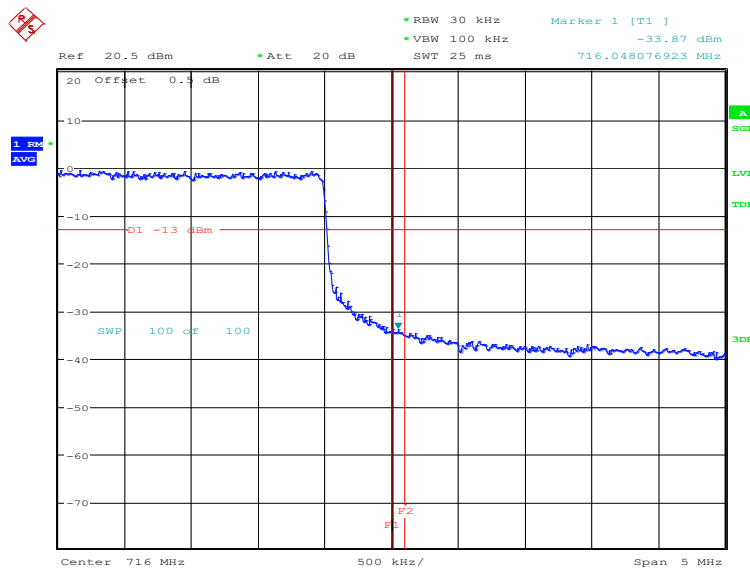
Date: 25.APR.2021 11:15:19

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 25.MAR.2021 23:05:00

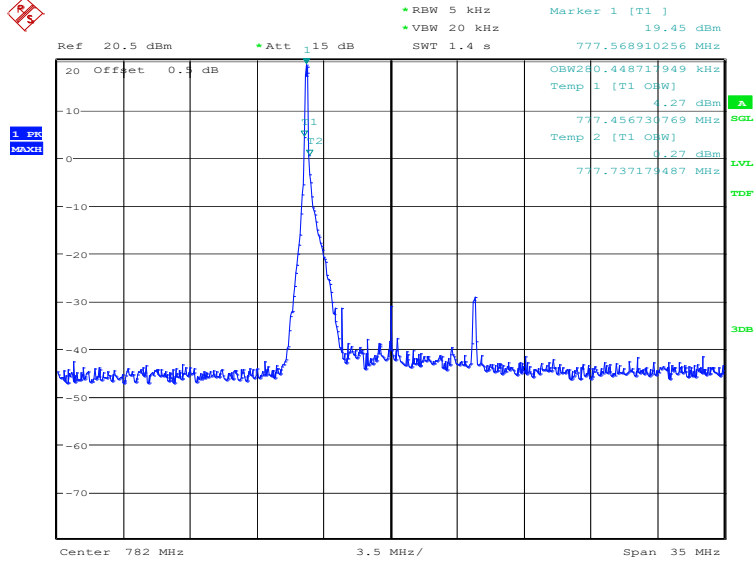
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 25.MAR.2021 23:06:24

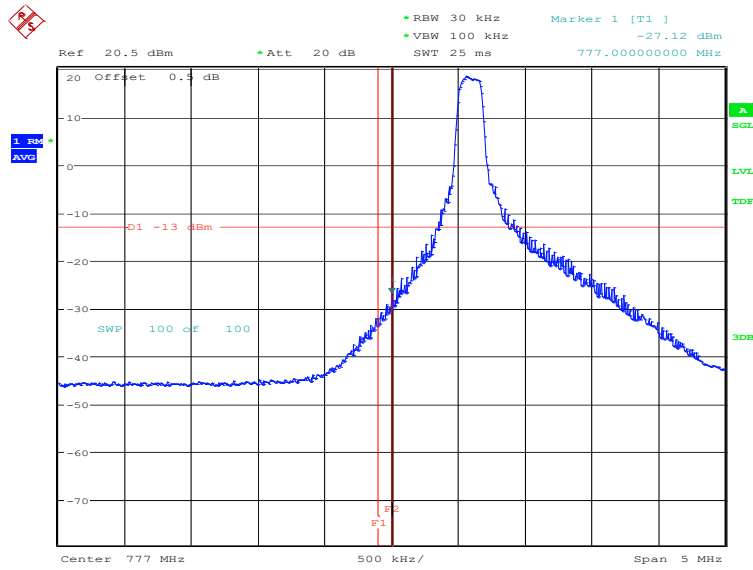
LTE band 13

OBW: 1RB-low_offset

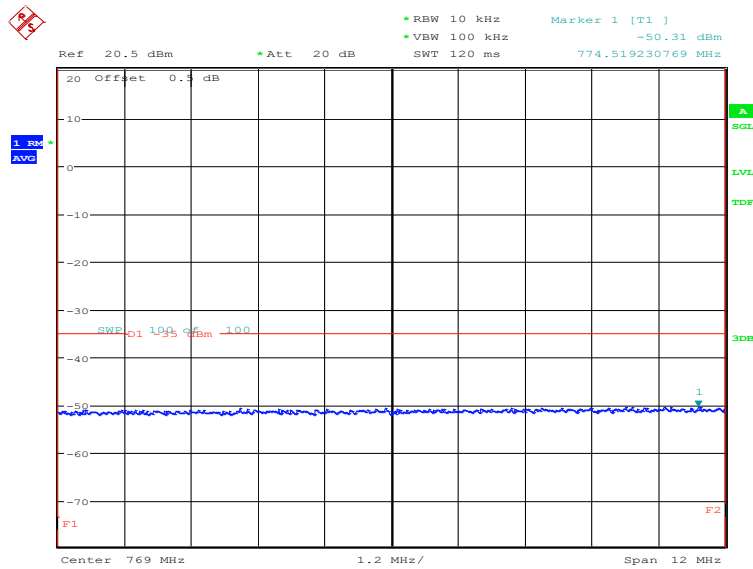


Date: 25.APR.2021 10:43:39

LOW BAND EDGE BLOCK-1RB-low_offset

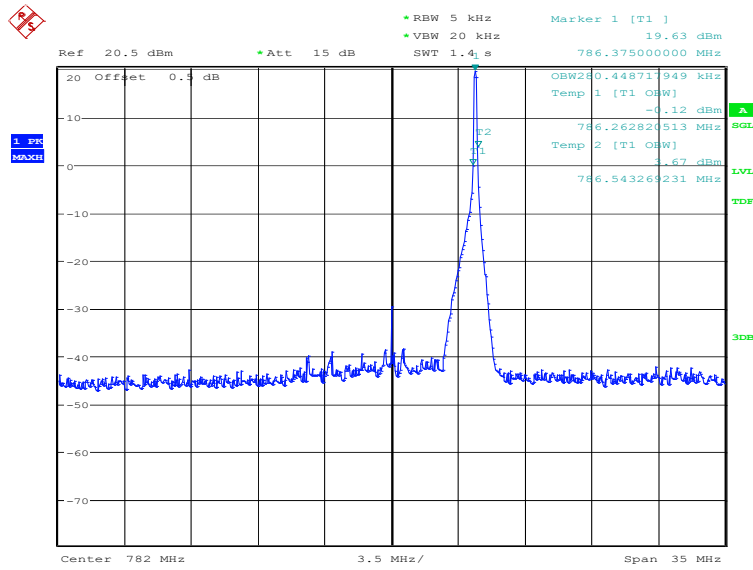


Date: 25.APR.2021 10:43:58



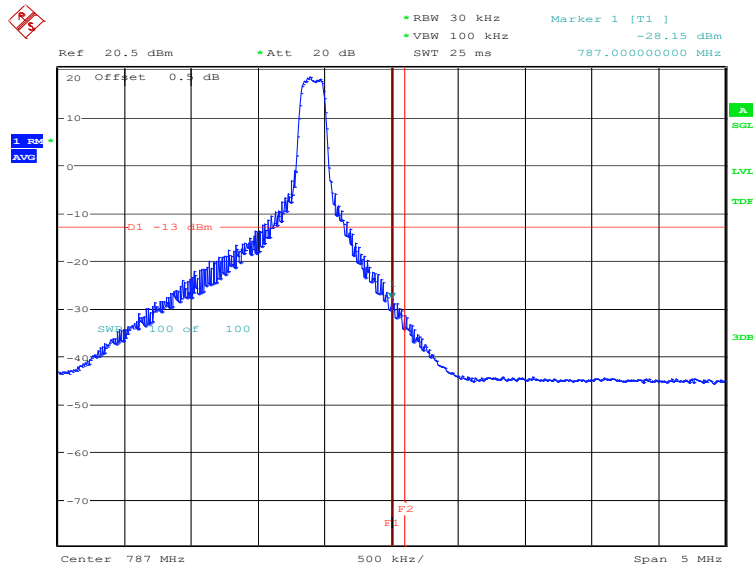
Date: 25.APR.2021 10:44:23

OBW: 1RB-high_offset

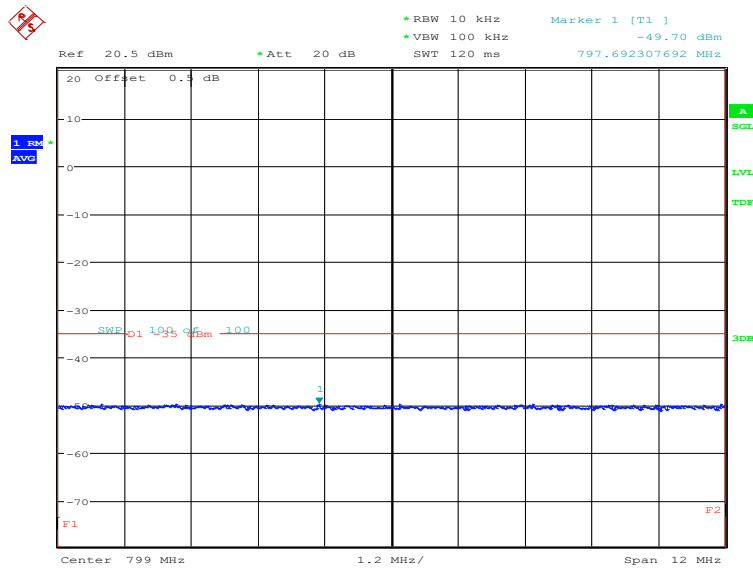


Date: 25.APR.2021 10:44:57

HIGH BAND EDGE BLOCK-1RB-high_offset

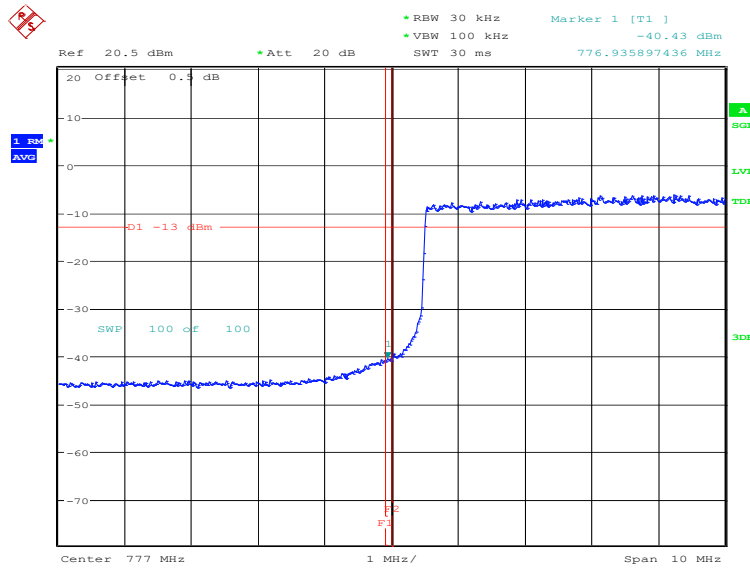


Date: 25.APR.2021 10:45:16

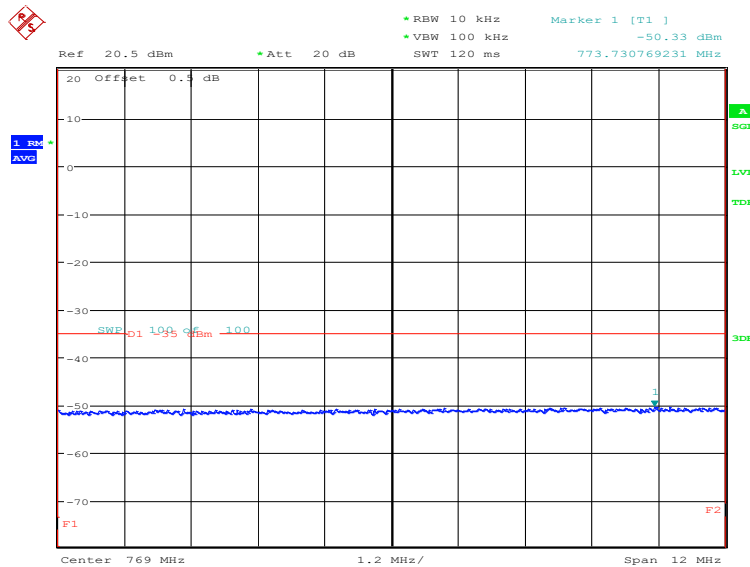


Date: 25.APR.2021 10:45:48

LOW BAND EDGE BLOCK-10MHz-100%RB

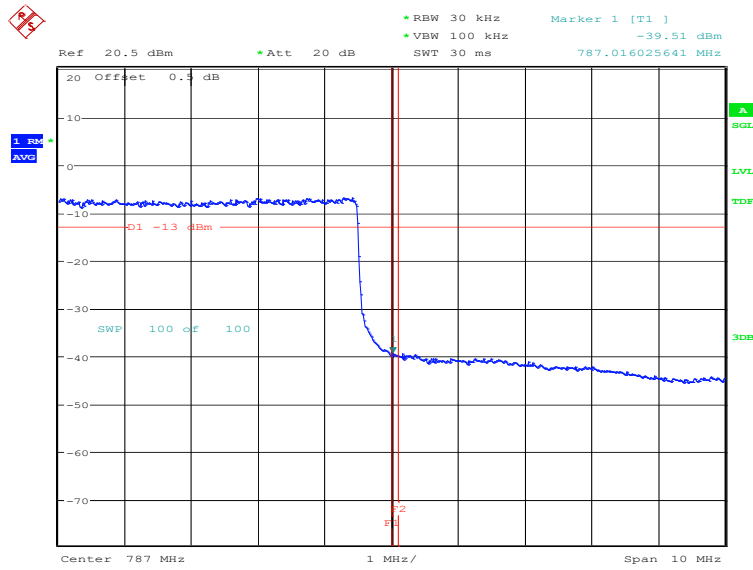


Date: 26.MAR.2021 08:40:13

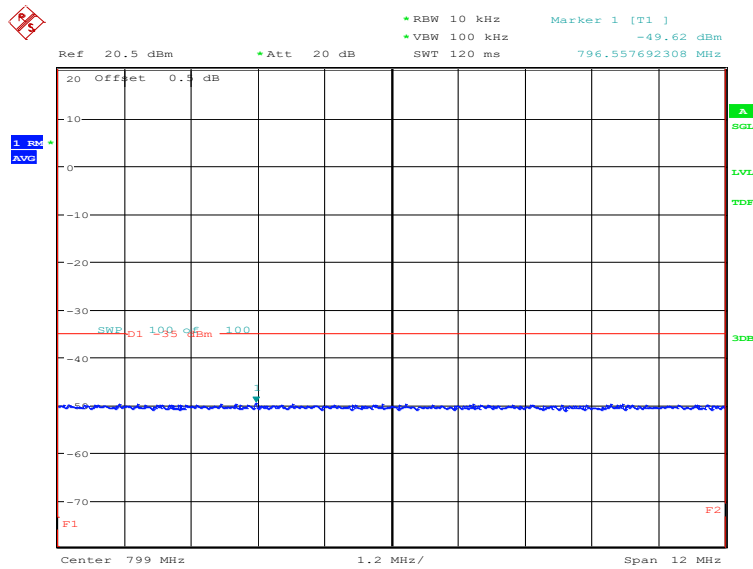


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HIGH BAND EDGE BLOCK-10MHz-100%RB



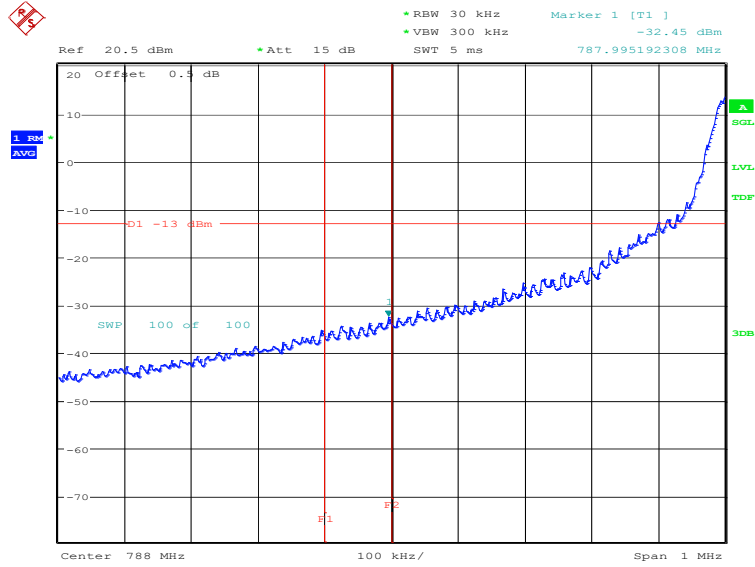
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Date: 26.MAR.2021 08:42:41

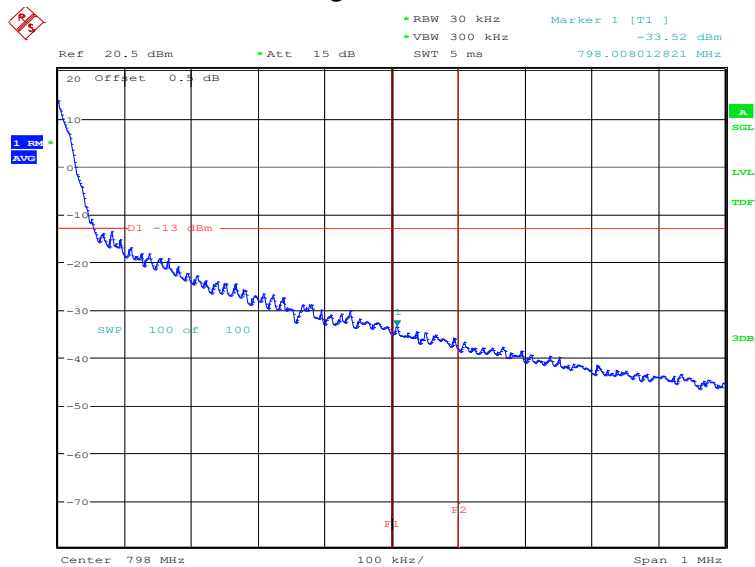
LTE band 14

LOW BAND EDGE BLOCK-1RB-low_offset



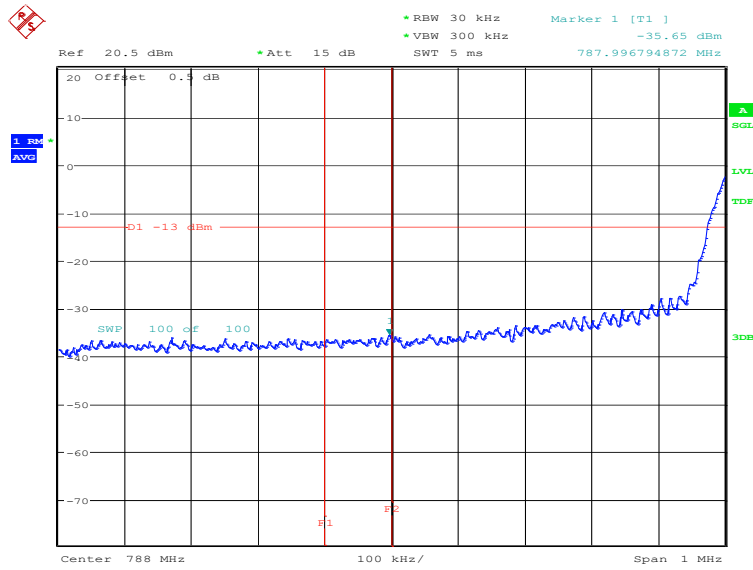
Date: 25.APR.2021 12:16:20

HIGH BAND EDGE BLOCK-1RB-high_offset



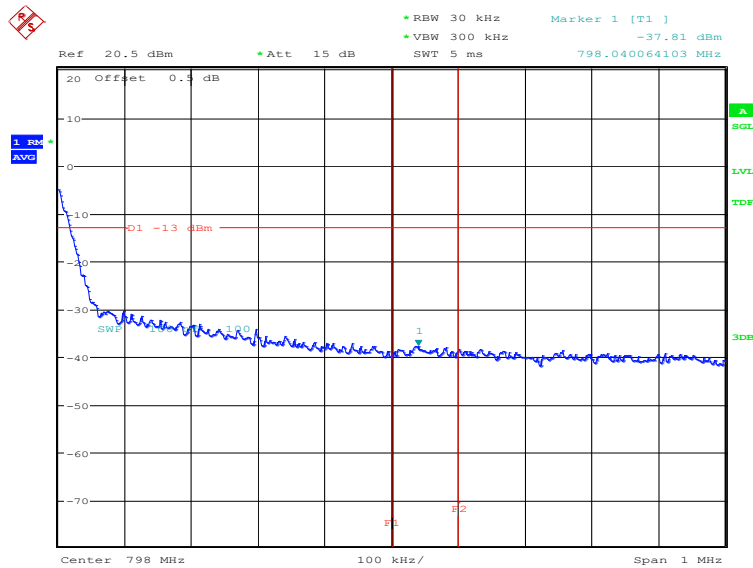
Date: 25.APR.2021 12:16:56

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 26.MAR.2021 08:27:52

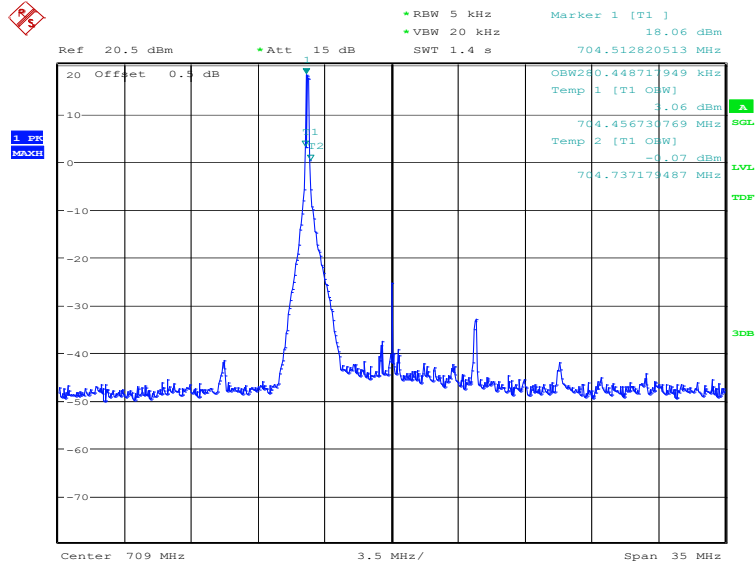
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 26.MAR.2021 08:29:19

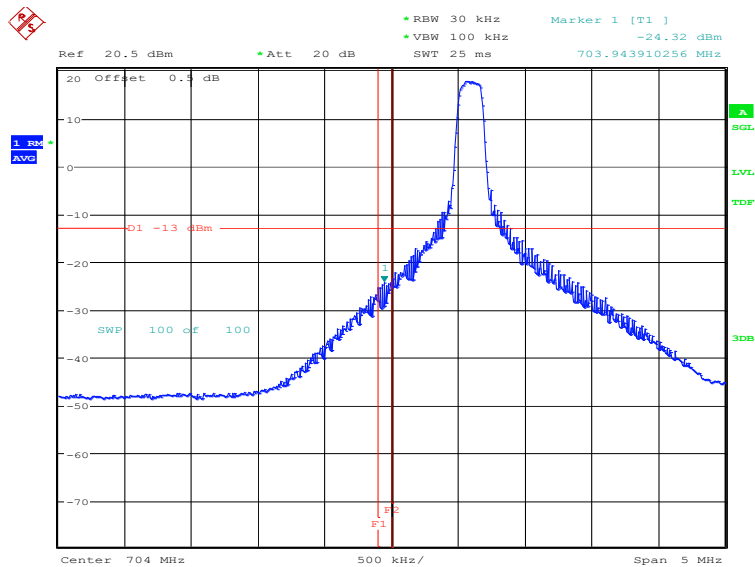
LTE band 17

OBW: 1RB-low_offset



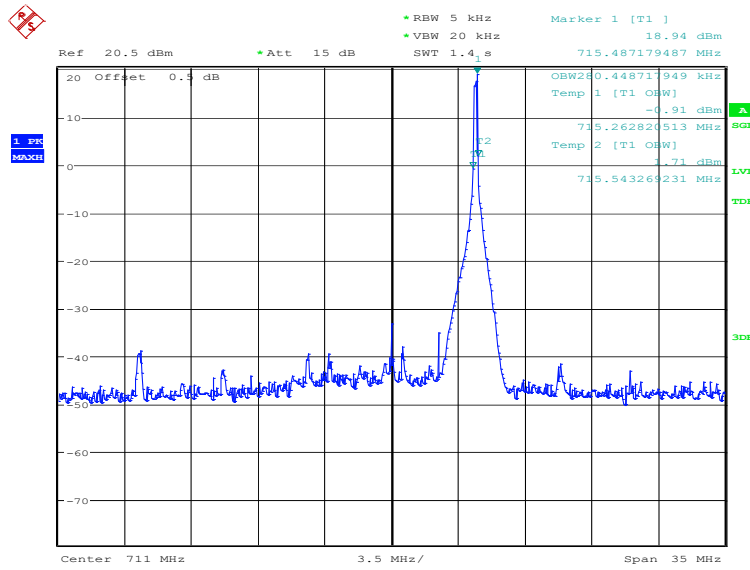
Date: 25.APR.2021 11:16:47

LOW BAND EDGE BLOCK-1RB-low_offset



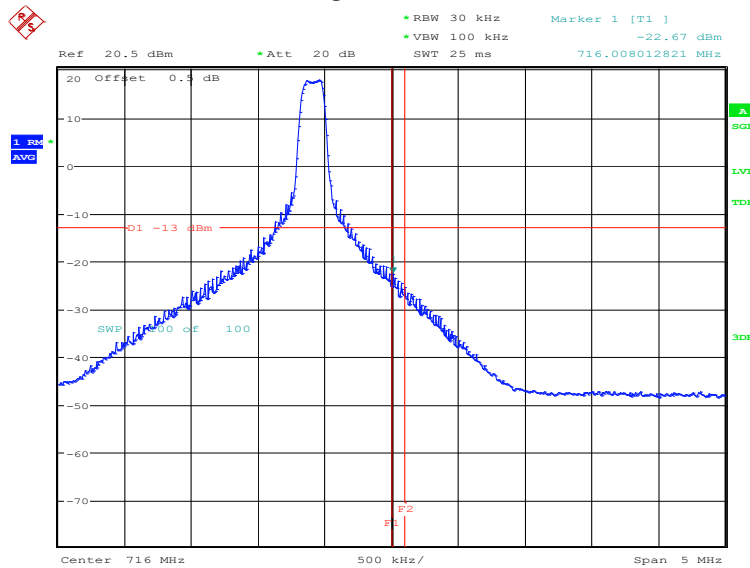
Date: 25.APR.2021 11:17:06

OBW: 1RB-high_offset



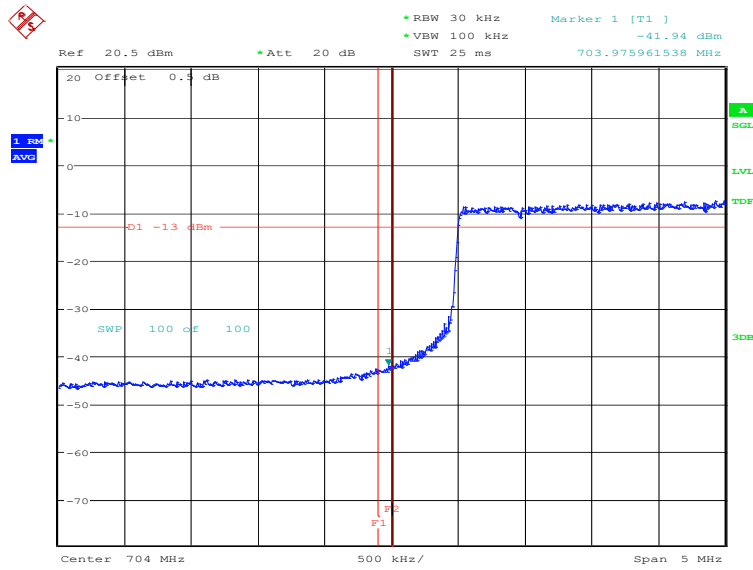
Date: 25.APR.2021 11:17:41

HIGH BAND EDGE BLOCK-1RB-high_offset



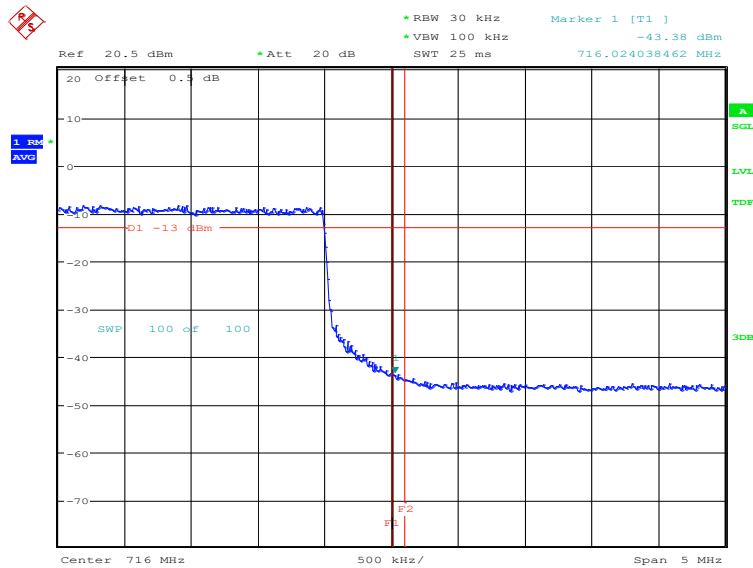
Date: 25.APR.2021 11:18:00

LOW BAND EDGE BLOCK-10MHz-100%RB



Date: 25.MAR.2021 23:11:05

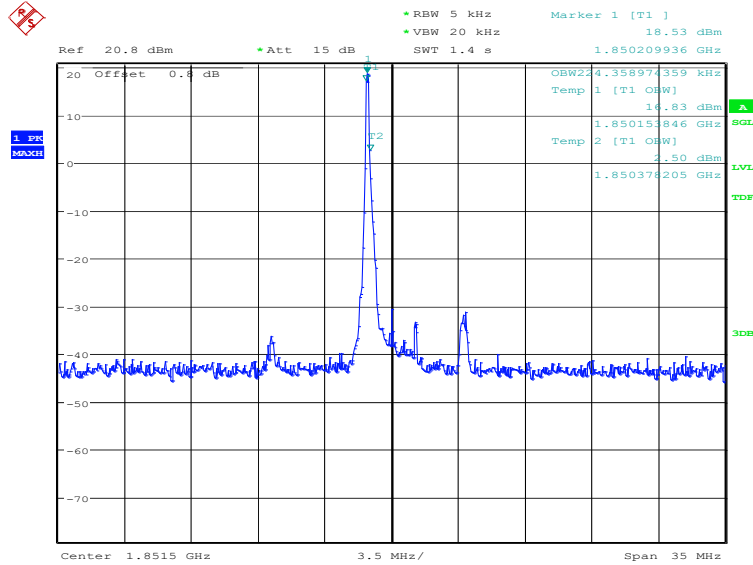
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 25.MAR.2021 23:12:29

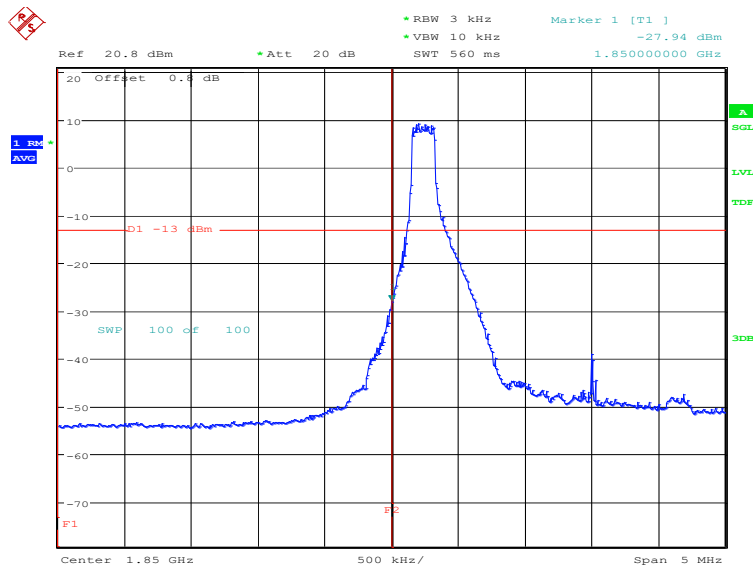
LTE band 25

OBW: 1RB-low_offset



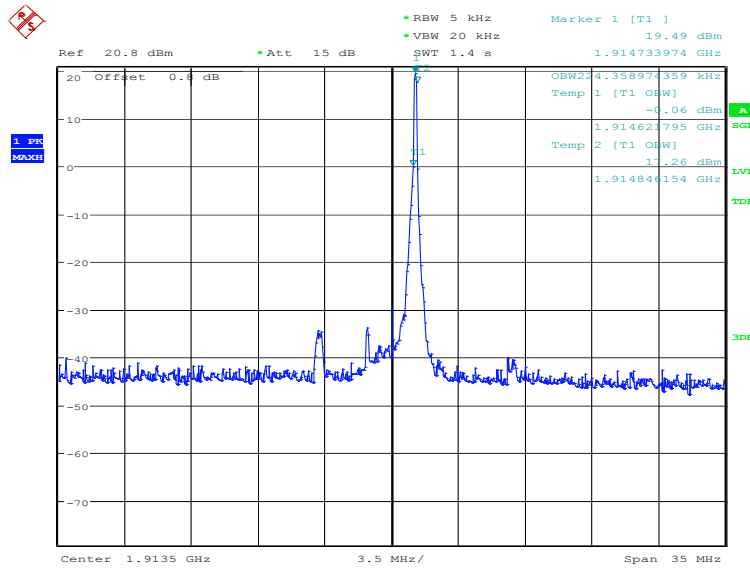
Date: 25.APR.2021 17:18:14

LOW BAND EDGE BLOCK-1RB-low_offset



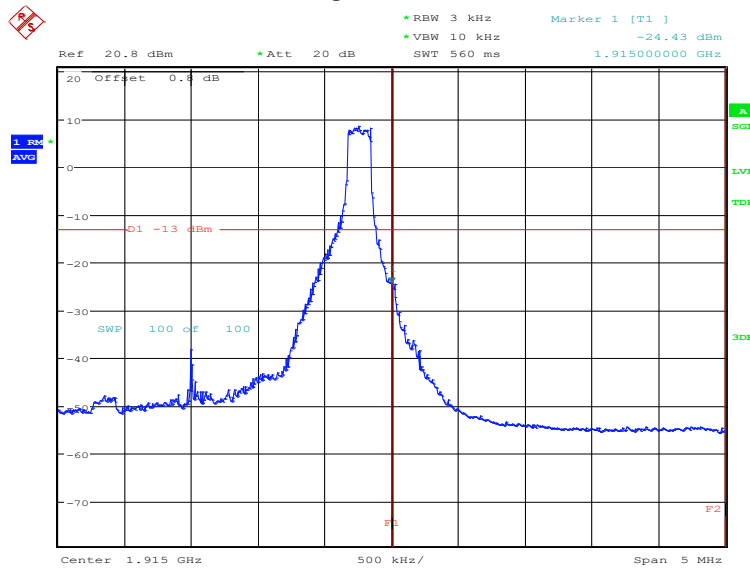
Date: 25.APR.2021 17:19:28

OBW: 1RB-high_offset



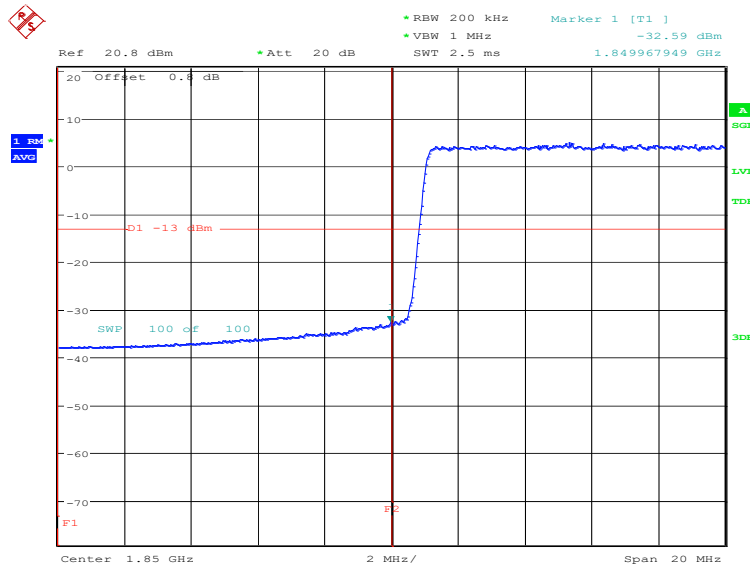
Date: 25.APR.2021 17:20:03

HIGH BAND EDGE BLOCK-1RB-high_offset



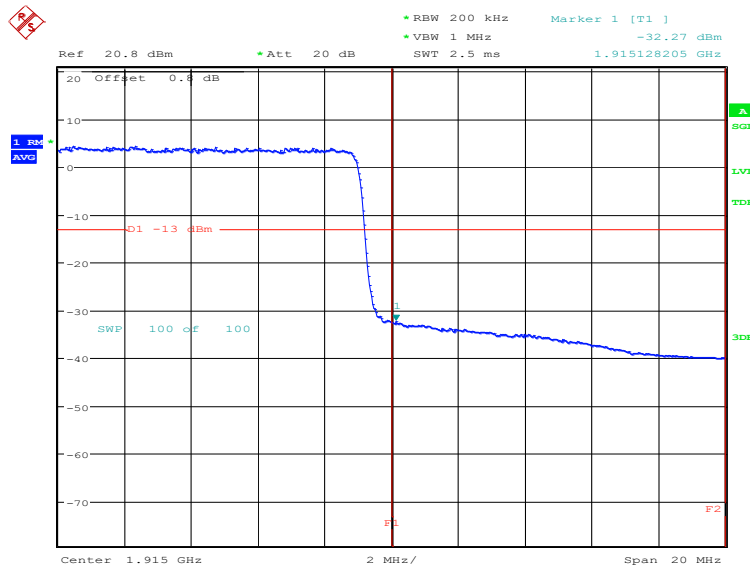
Date: 25.APR.2021 17:21:16

LOW BAND EDGE BLOCK-20MHz-100%RB



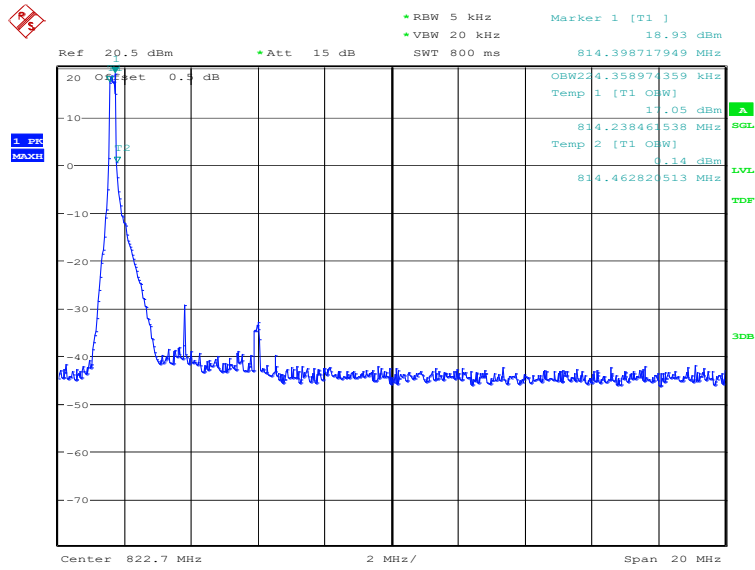
Date: 25.MAR.2021 23:14:02

HIGH BAND EDGE BLOCK-20MHz-100%RB



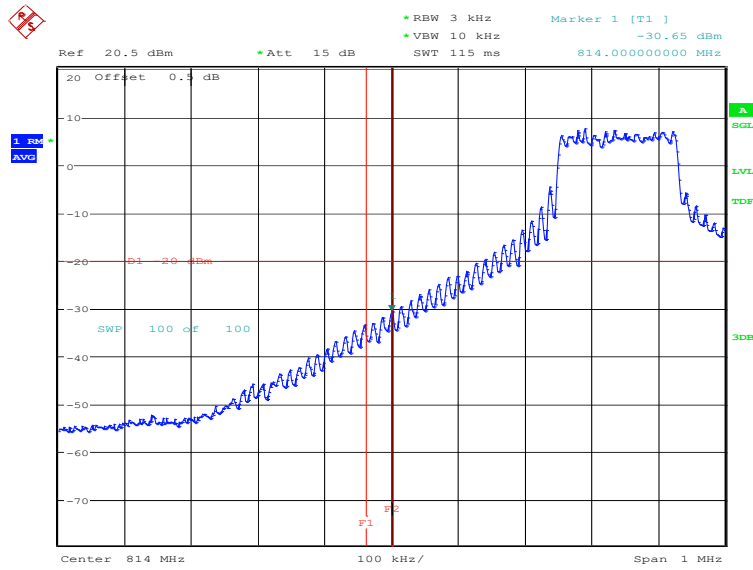
Date: 25.MAR.2021 23:15:25

LTE band 26(814MHz~824MHz)
OBW: 1RB-low_offset



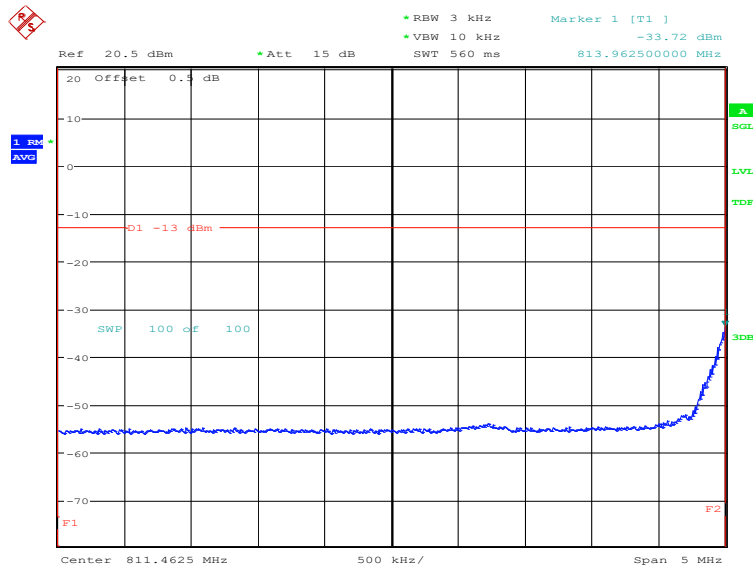
Date: 25.APR.2021 12:06:41

LOW BAND EDGE BLOCK-1RB-low_offset



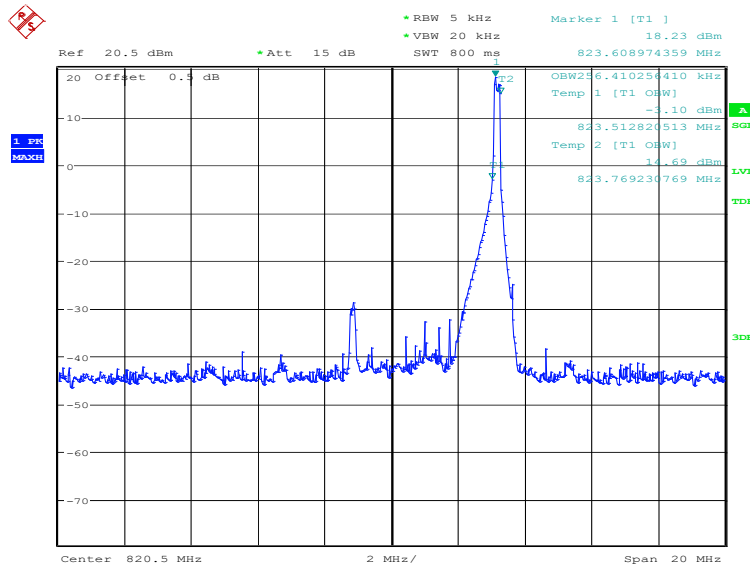
Date: 25.APR.2021 12:08:12

LOW Emission Mask -1RB-low_offset



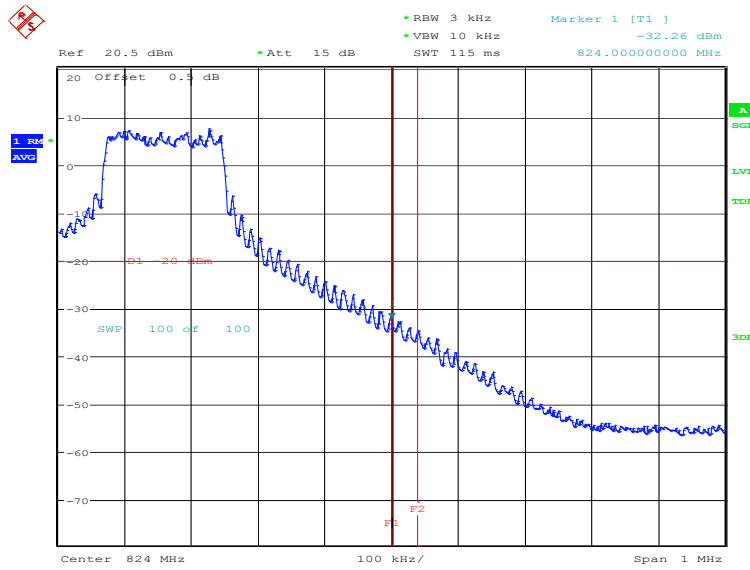
Date: 25.APR.2021 12:10:29

OBW: 1RB-high_offset



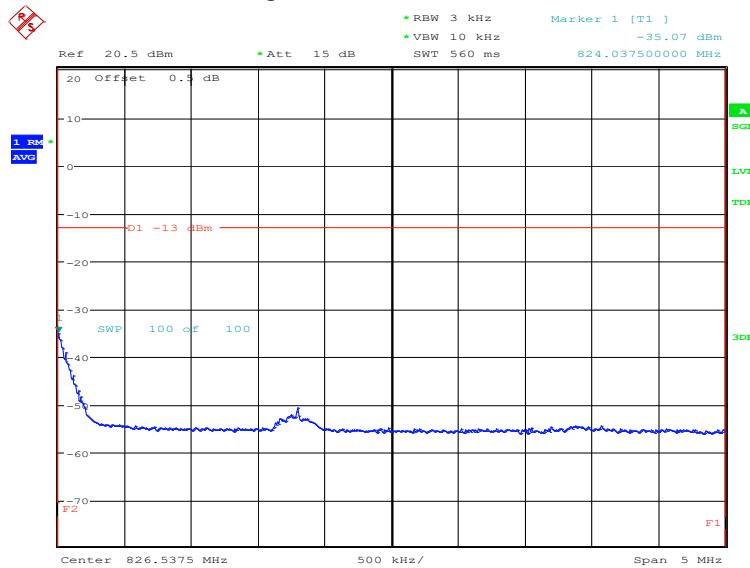
Date: 25.APR.2021 12:11:05

HIGH BAND EDGE BLOCK-1RB-high_offset



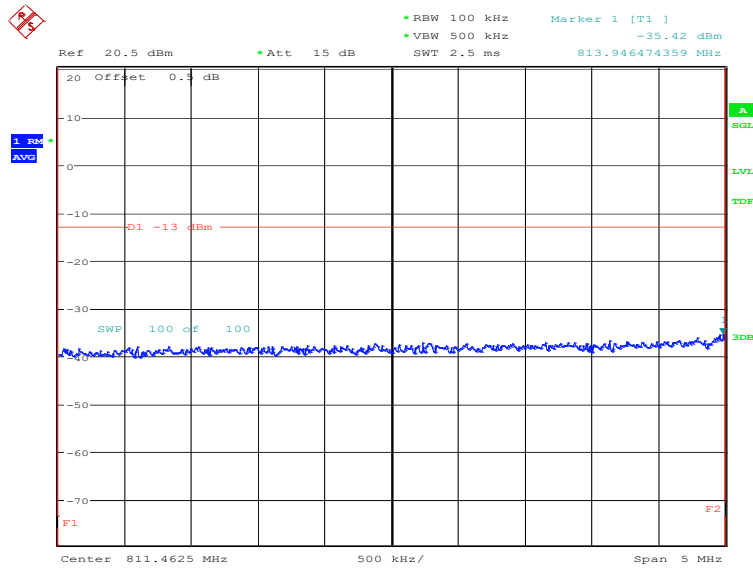
Date: 25.APR.2021 12:12:37

HIGH Emission Mask -1RB-high_offset



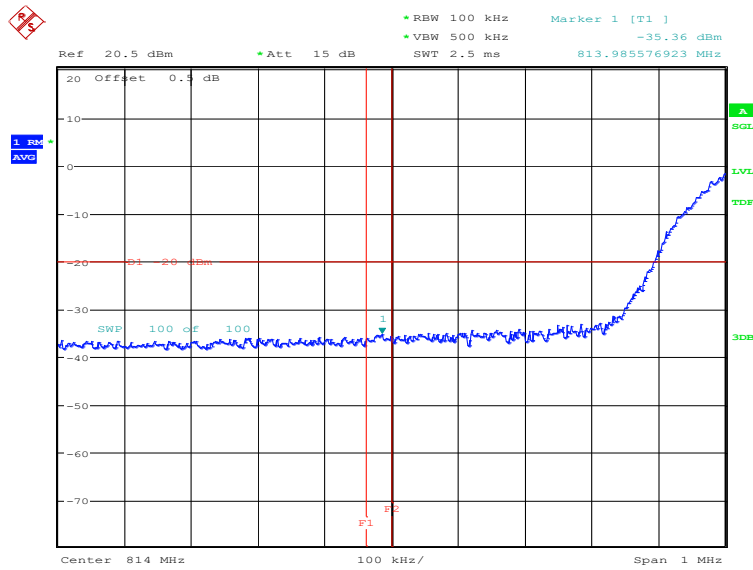
Date: 25.APR.2021 12:14:53

LOW Emission Mask -10MHz-100%RB



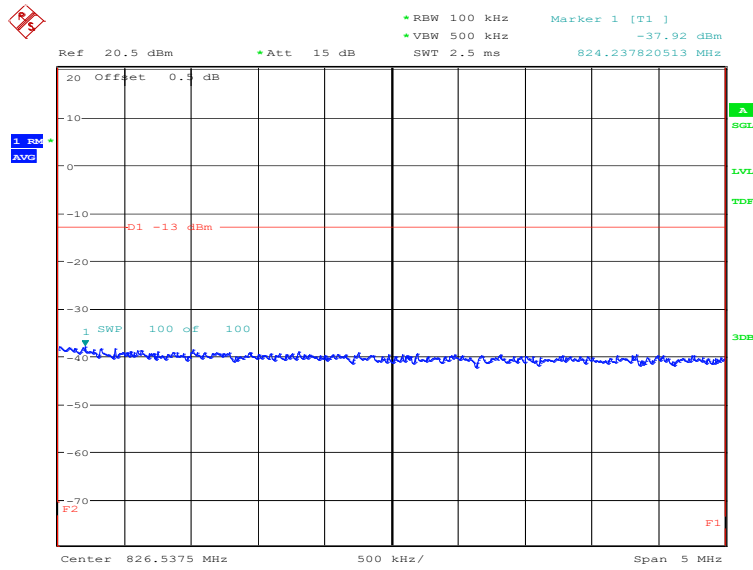
Date: 26.MAR.2021 08:24:34

LOW BAND EDGE BLOCK-10MHz-100%RB



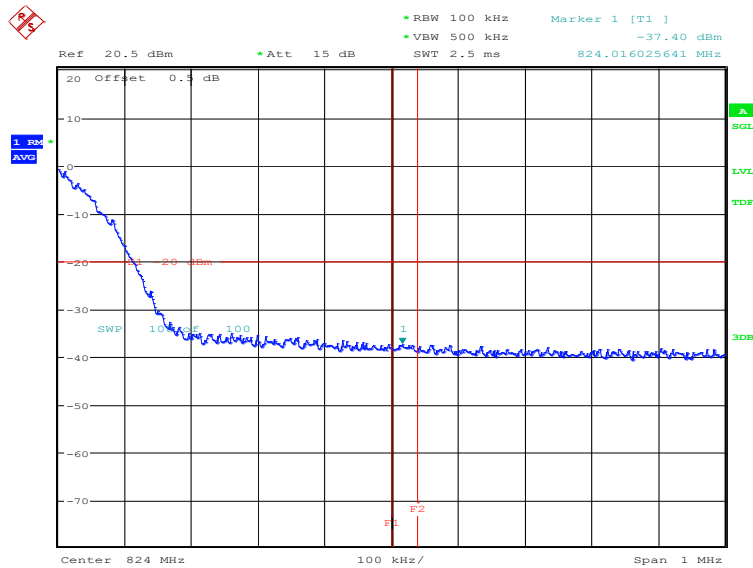
Date: 26.MAR.2021 08:24:12

HIGH Emission Mask -10MHz-100%RB



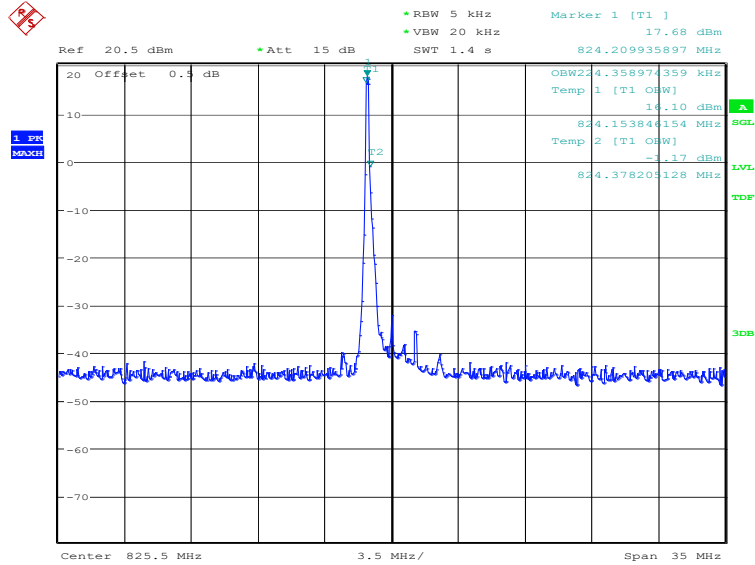
Date: 26.MAR.2021 08:26:23

HIGH BAND EDGE BLOCK-10MHz-100%RB



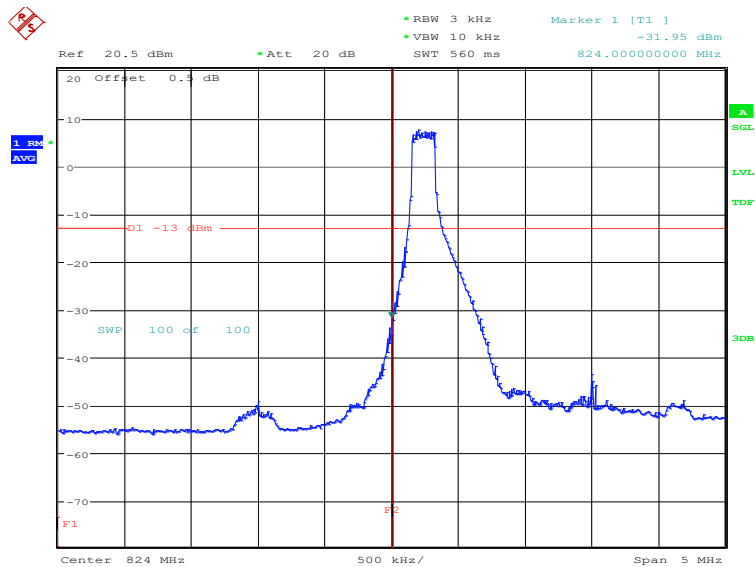
Date: 26.MAR.2021 08:26:01

LTE band 26(824MHz~849MHz) OBW: 1RB-low_offset



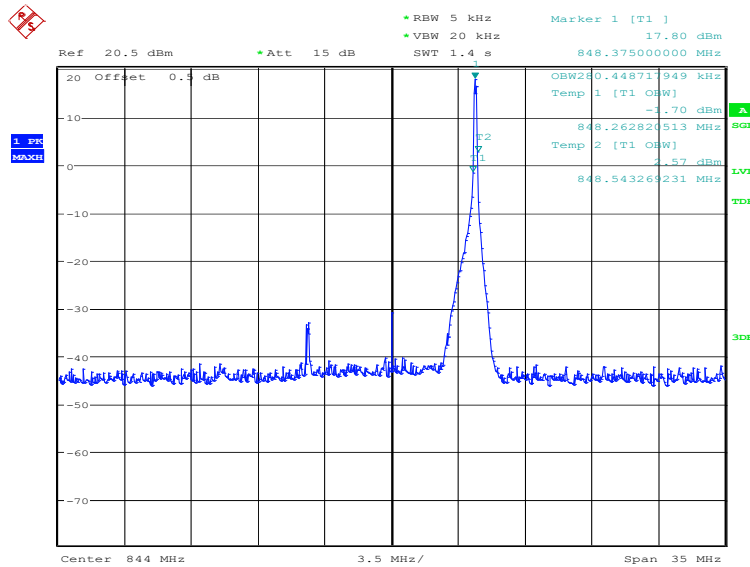
Date: 25.APR.2021 11:22:56

LOW BAND EDGE BLOCK-1RB-low_offset



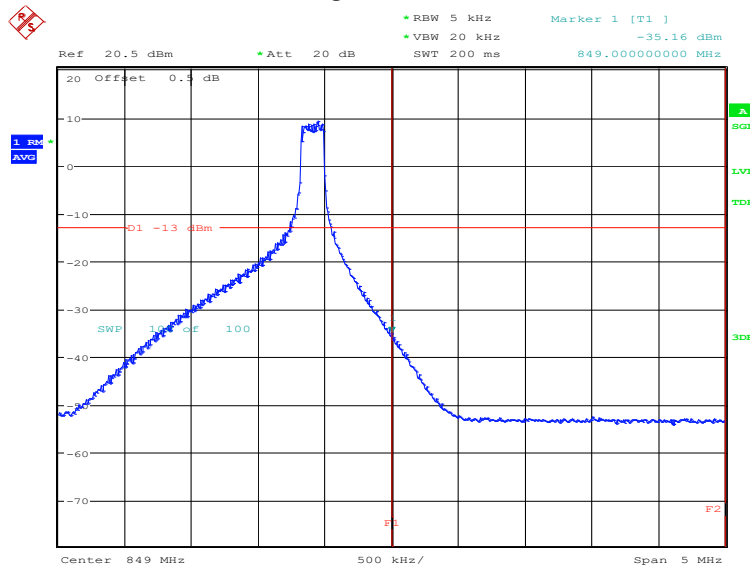
Date: 25.APR.2021 11:24:09

OBW: 1RB-high_offset



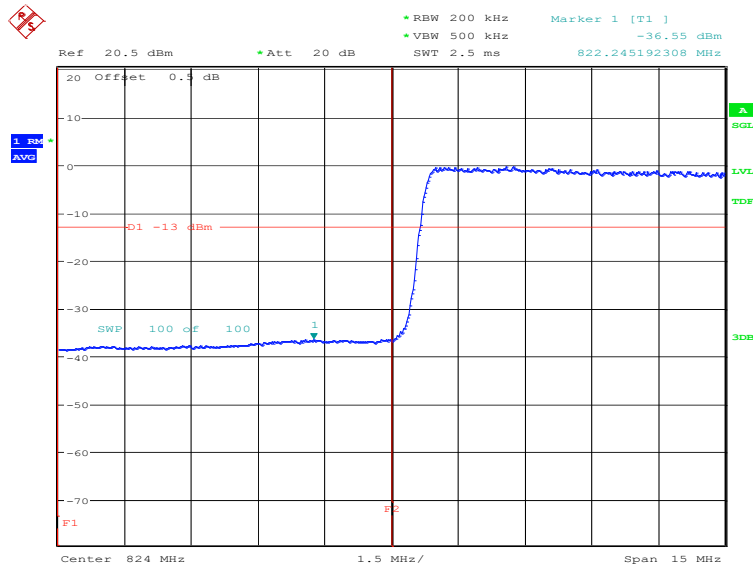
Date: 25.APR.2021 11:24:51

HIGH BAND EDGE BLOCK-1RB-high_offset



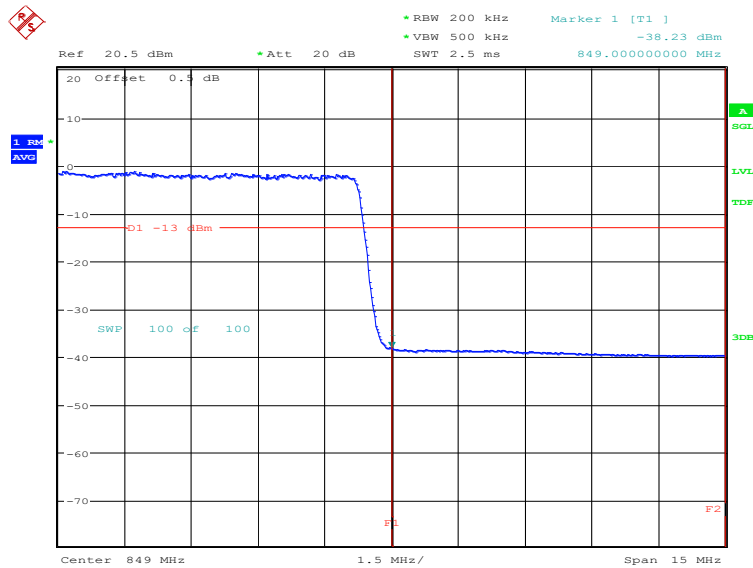
Date: 25.APR.2021 11:26:05

LOW BAND EDGE BLOCK-15MHz-100%RB



Date: 25.MAR.2021 23:17:39

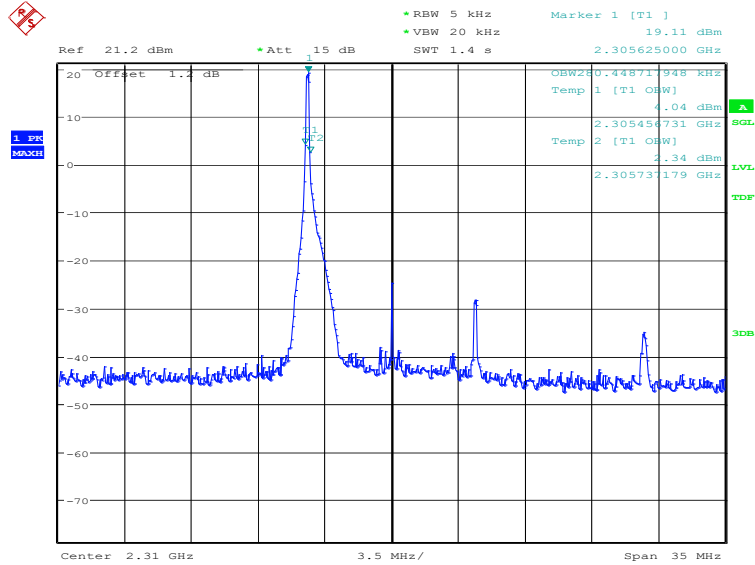
HIGH BAND EDGE BLOCK-15MHz-100%RB



Date: 25.MAR.2021 23:19:03

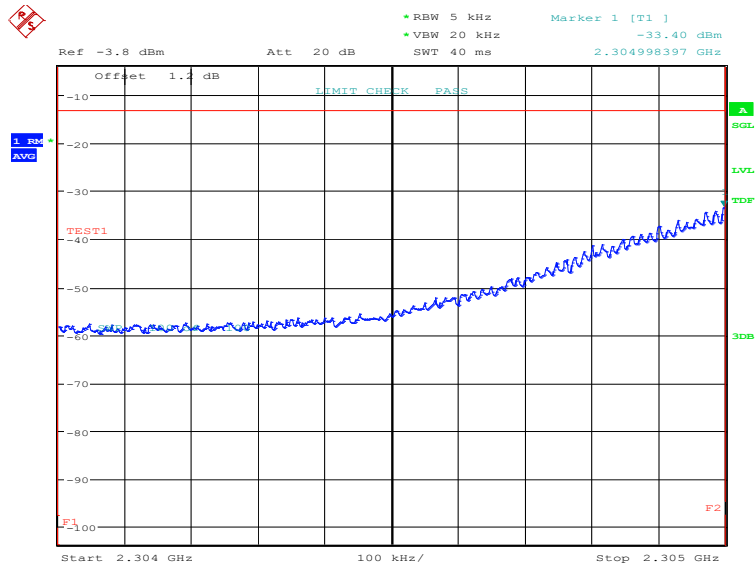
LTE band 30

OBW: 1RB-low_offset

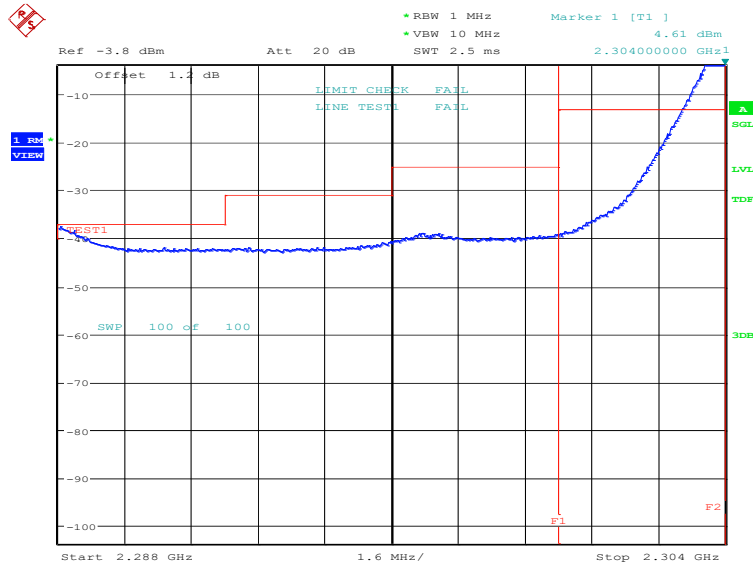


Date: 25.APR.2021 11:26:41

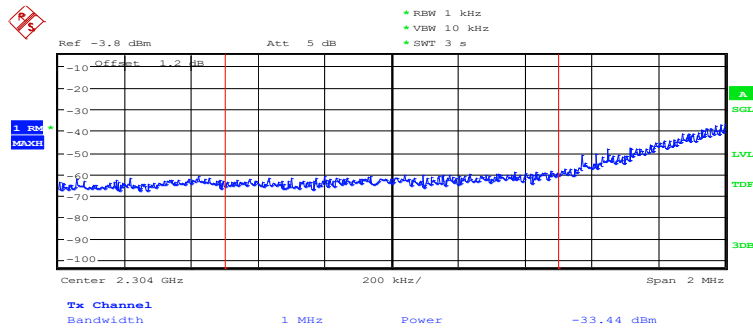
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 25.APR.2021 11:28:02

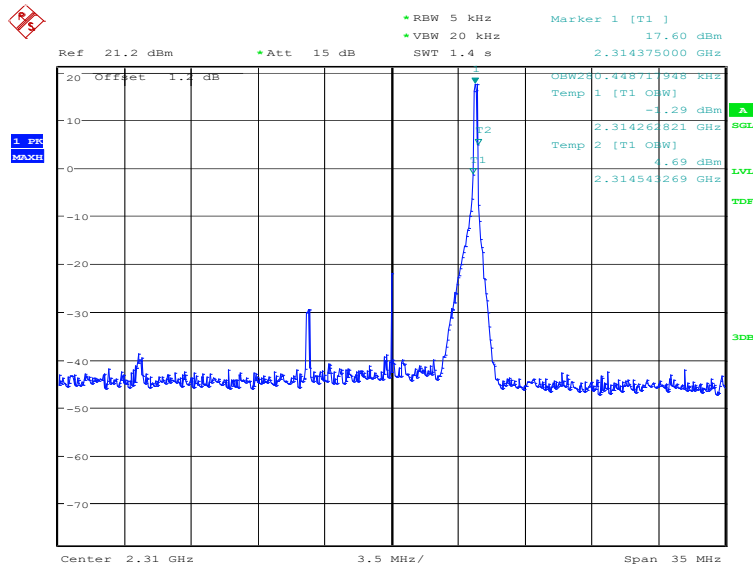


Date: 25.APR.2021 11:29:53



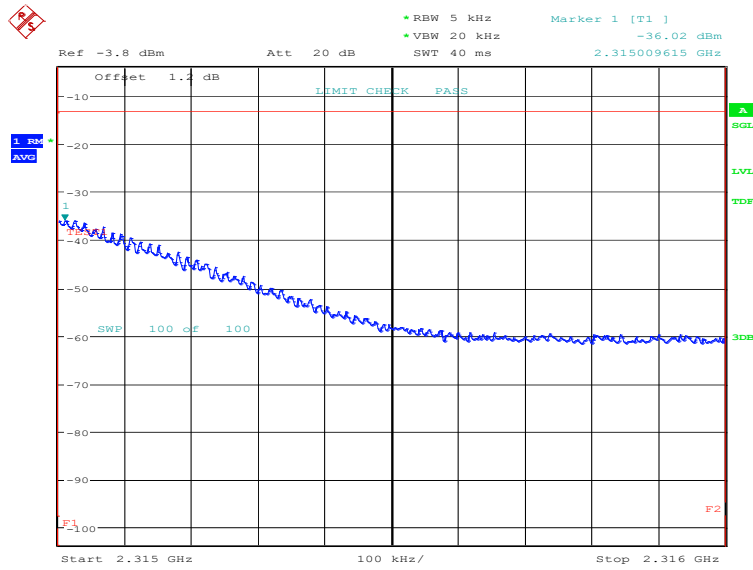
Date: 25.APR.2021 11:30:10

OBW: 1RB-high_offset

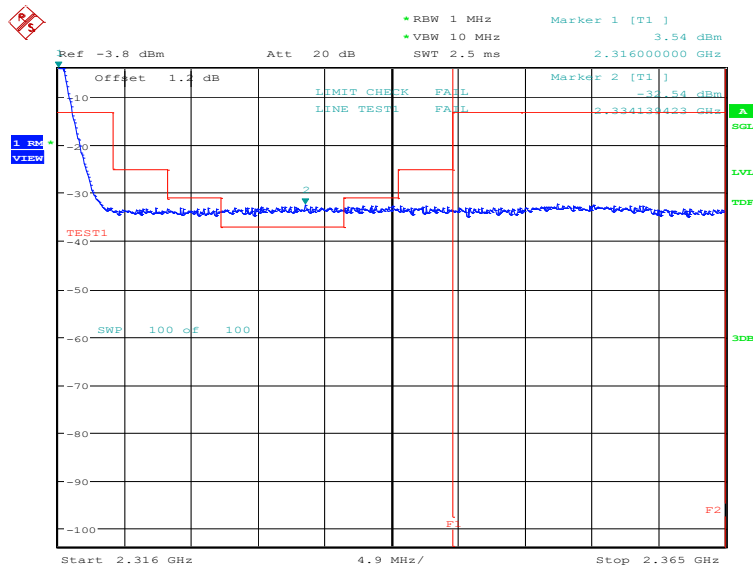


Date: 25.APR.2021 17:40:43

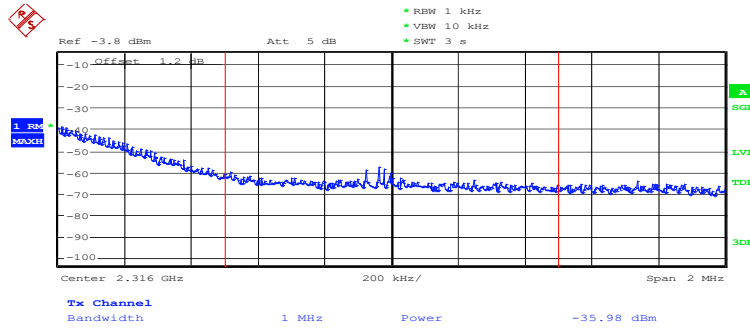
HIGH BAND EDGE BLOCK-1RB-high_offset



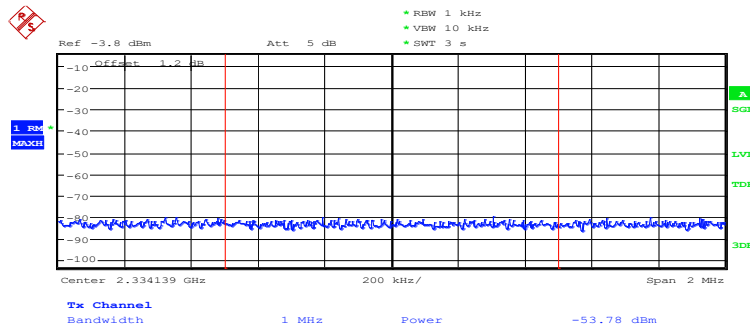
Date: 25.APR.2021 17:42:04



Date: 25.APR.2021 17:44:03

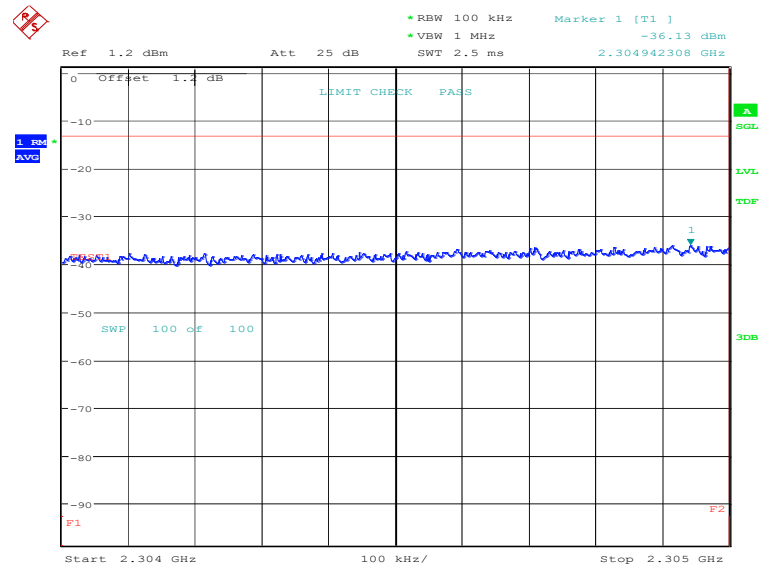


Date: 25.APR.2021 17:44:20

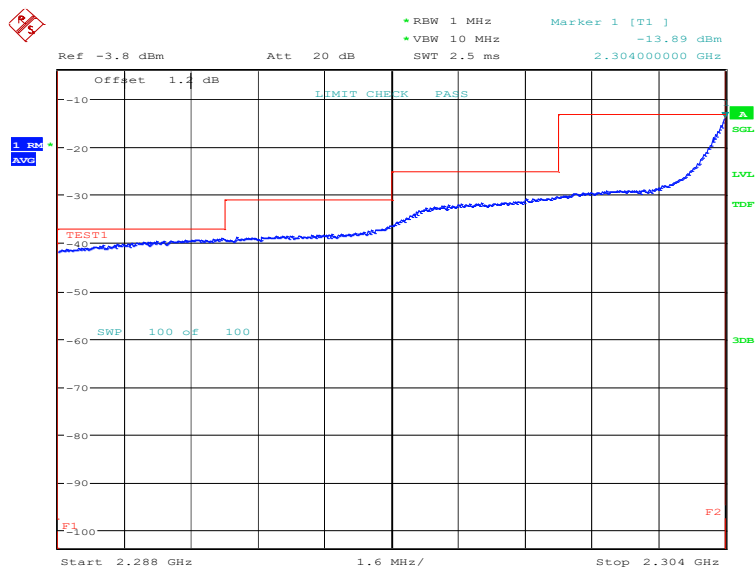


Date: 25.APR.2021 17:44:34

LOW BAND EDGE BLOCK-10MHz-100%RB

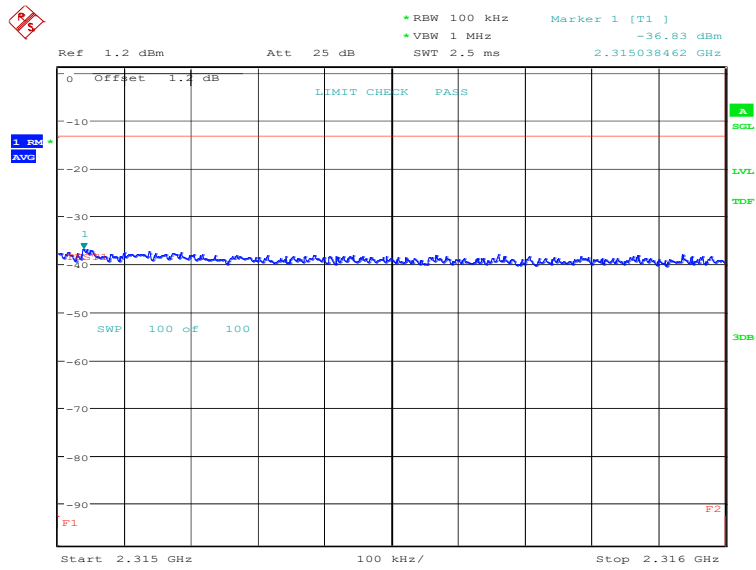


Date: 6.APR.2021 11:20:57

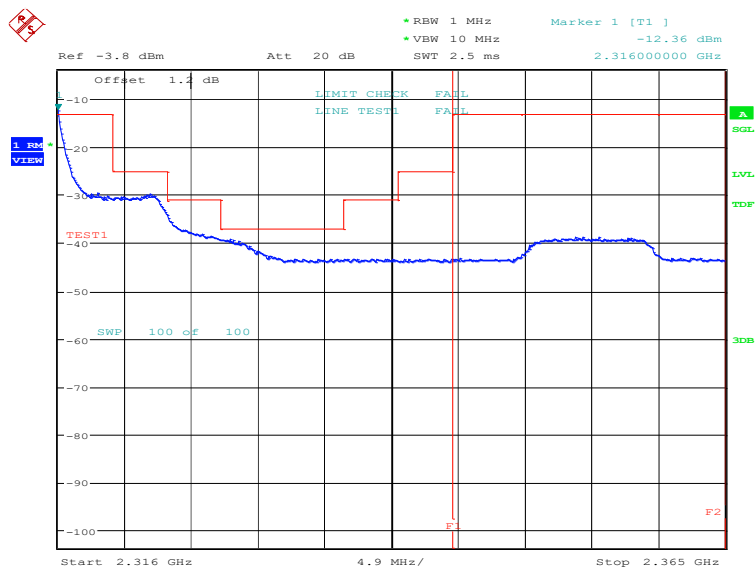


Date: 6.APR.2021 11:22:37

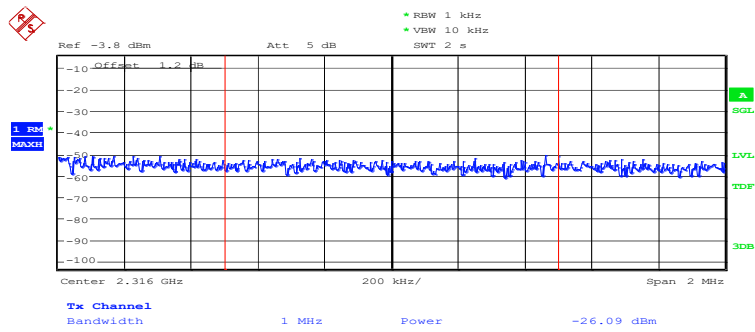
HIGH BAND EDGE BLOCK-10MHz-100%RB



Date: 6.APR.2021 11:25:32



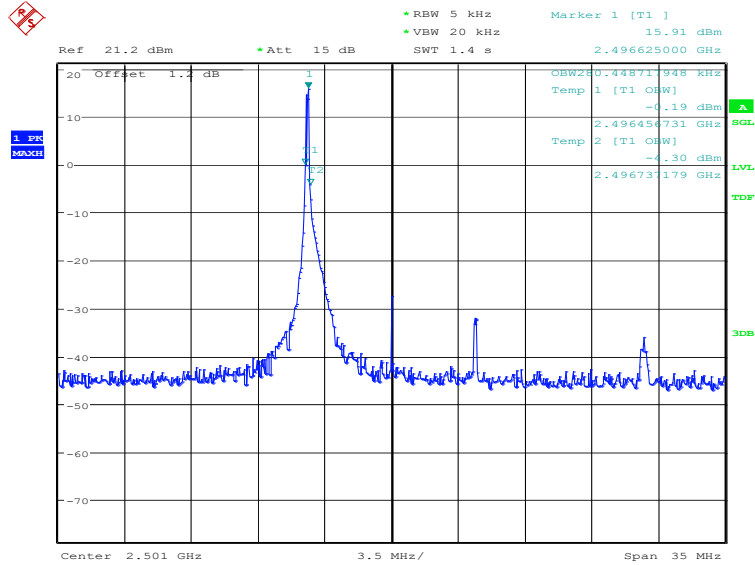
Date: 6.APR.2021 11:27:30



Date: 6.APR.2021 11:27:42

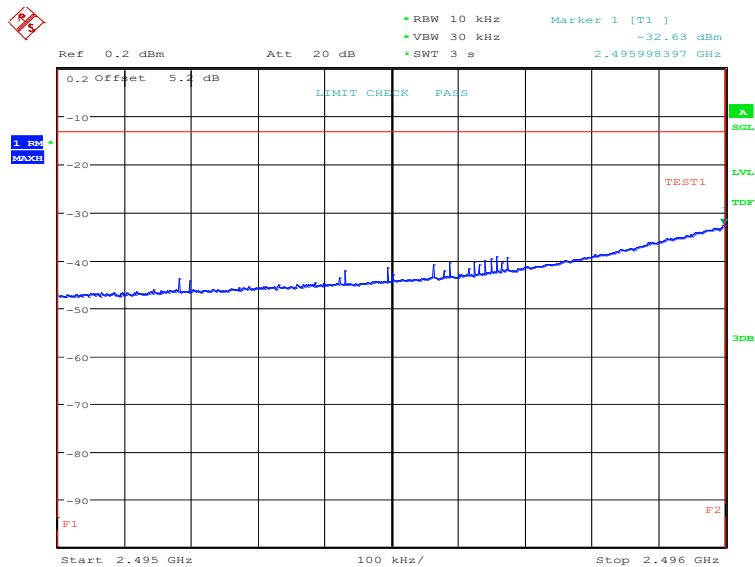
LTE band 41

OBW: 1RB-low_offset

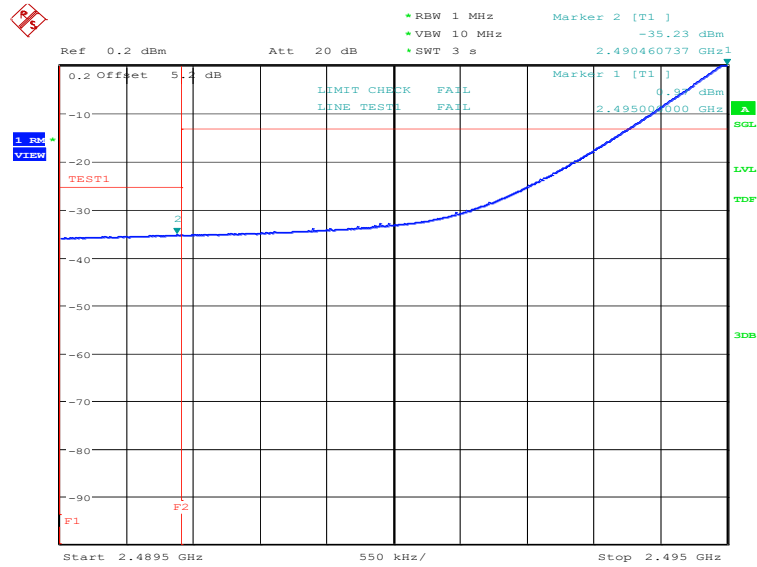


Date: 25.APR.2021 11:40:41

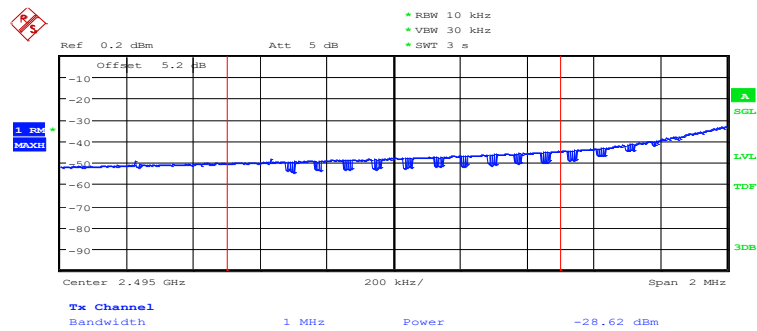
LOW BAND EDGE BLOCK-1RB-low_offset



Date: 25.APR.2021 11:41:22

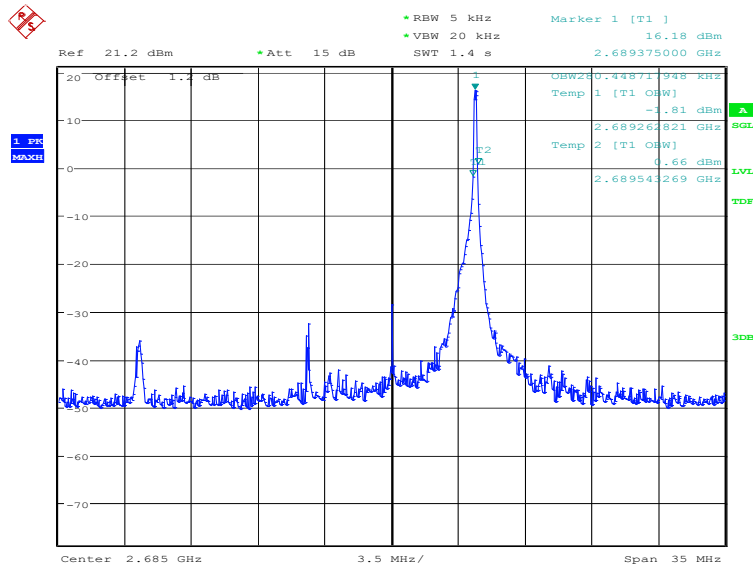


Date: 25.APR.2021 11:42:06



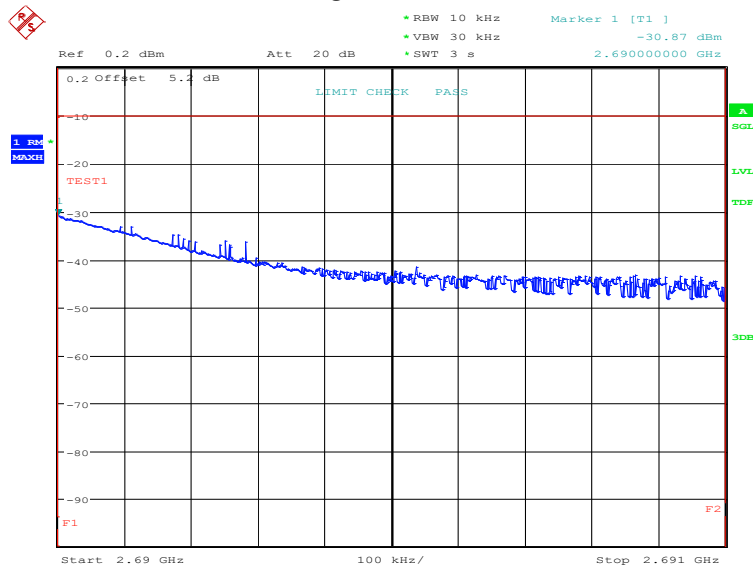
Date: 25.APR.2021 11:42:23

OBW: 1RB-high_offset

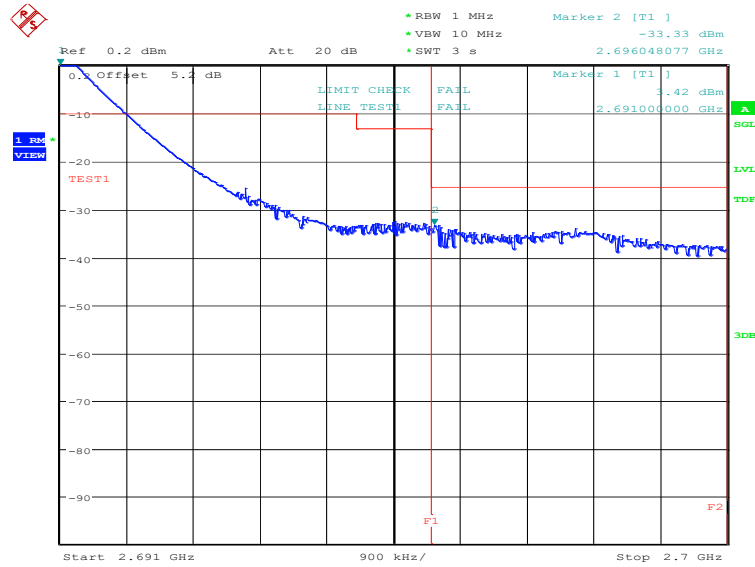


Date: 25.APR.2021 11:42:58

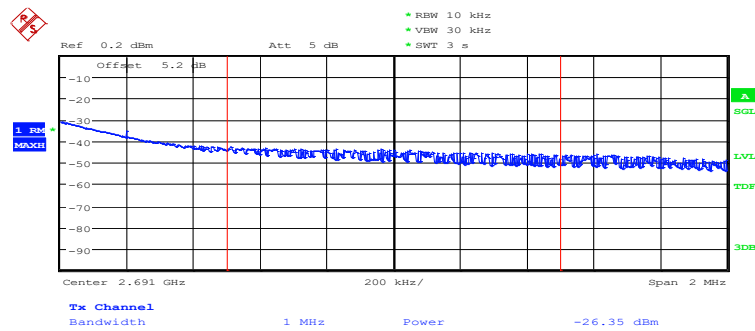
HIGH BAND EDGE BLOCK-1RB-high_offset



Date: 25.APR.2021 11:43:39

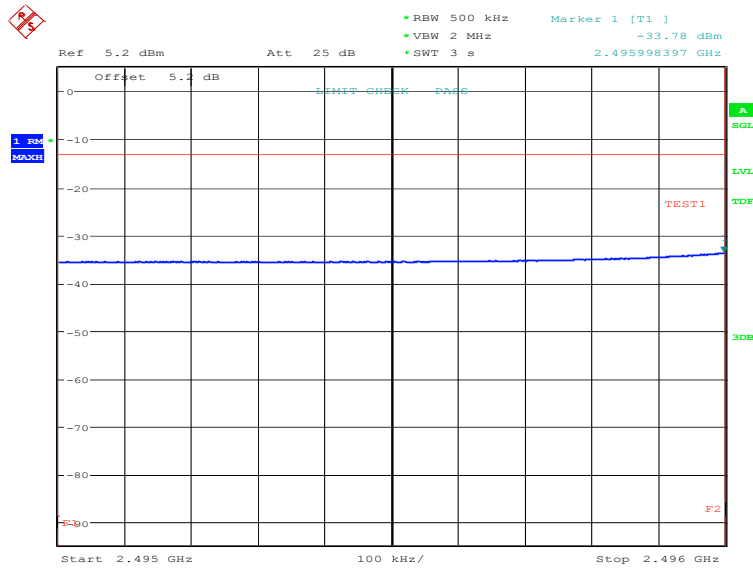


Date: 25.APR.2021 11:44:25

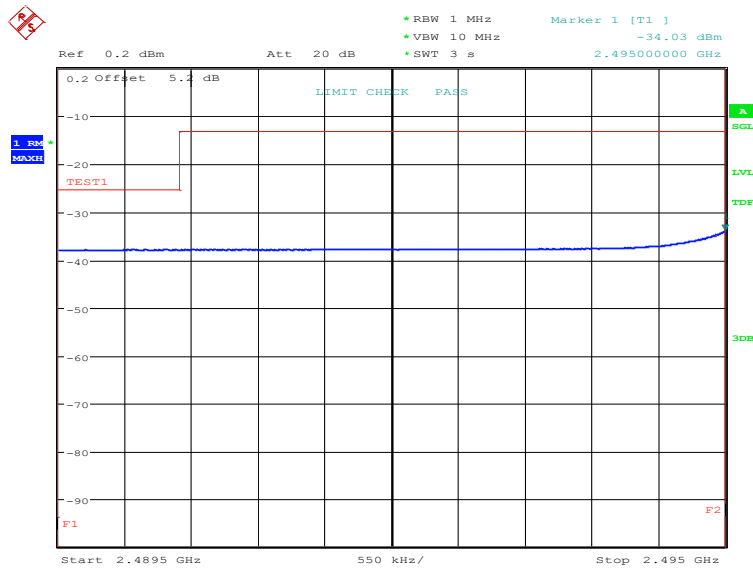


Date: 25.APR.2021 11:44:42

LOW BAND EDGE BLOCK-20MHz-100%RB

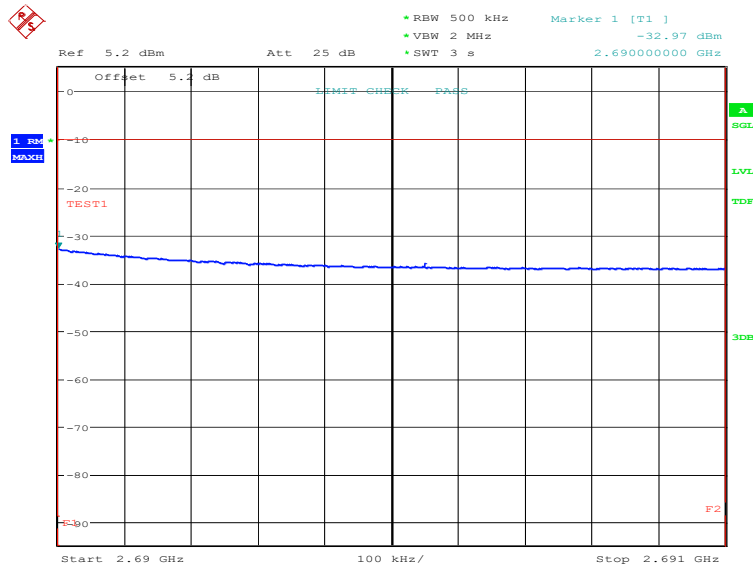


Date: 25.APR.2021 10:37:28

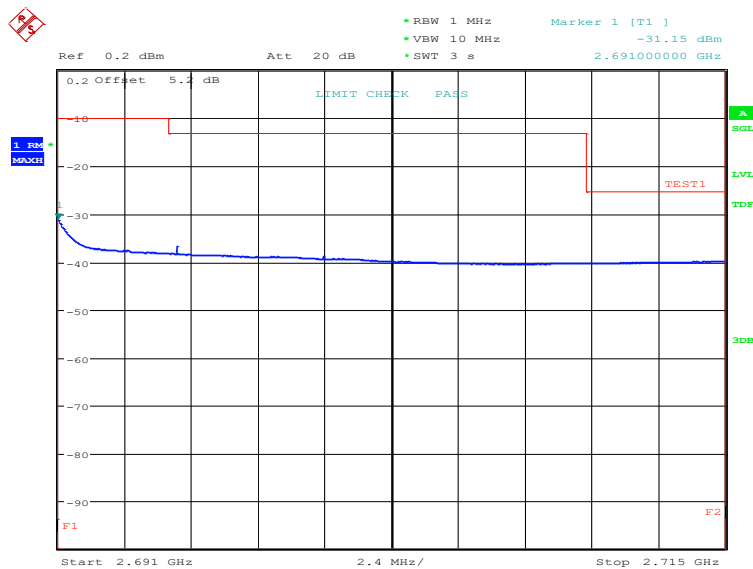


Date: 25.APR.2021 10:38:06

HIGH BAND EDGE BLOCK-20MHz-100%RB



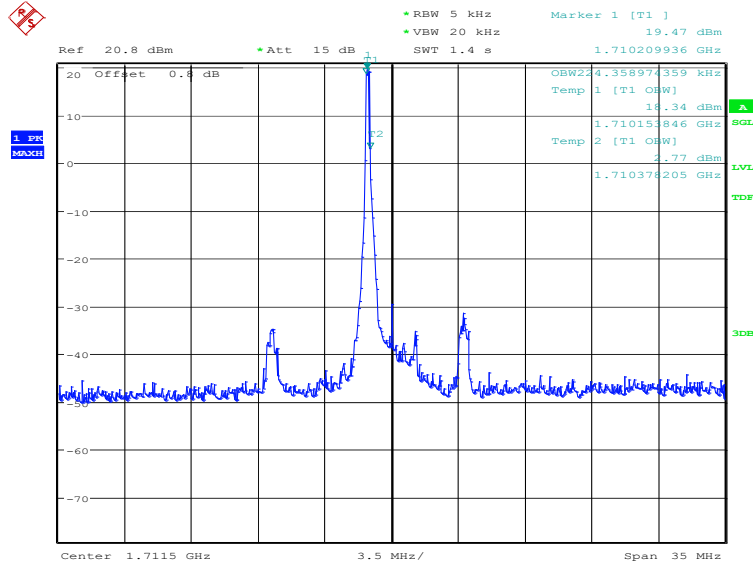
Date: 25.APR.2021 10:40:01



Date: 25.APR.2021 10:40:39

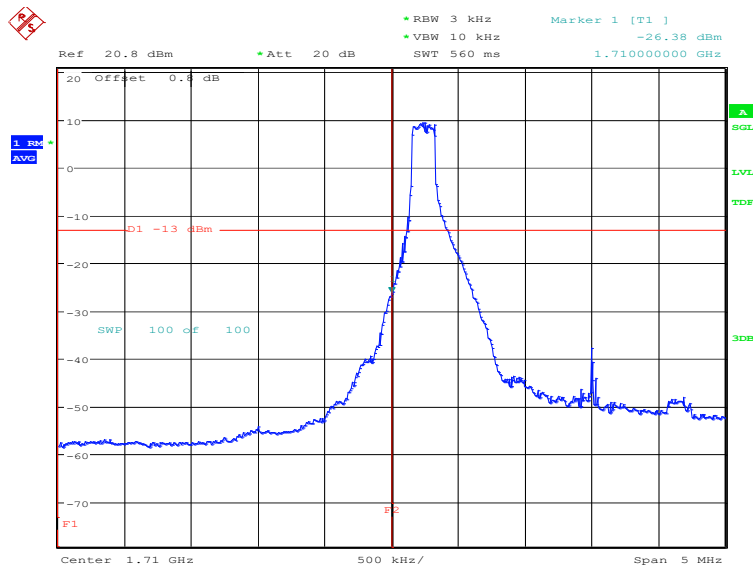
LTE band 66

OBW: 1RB-low_offset



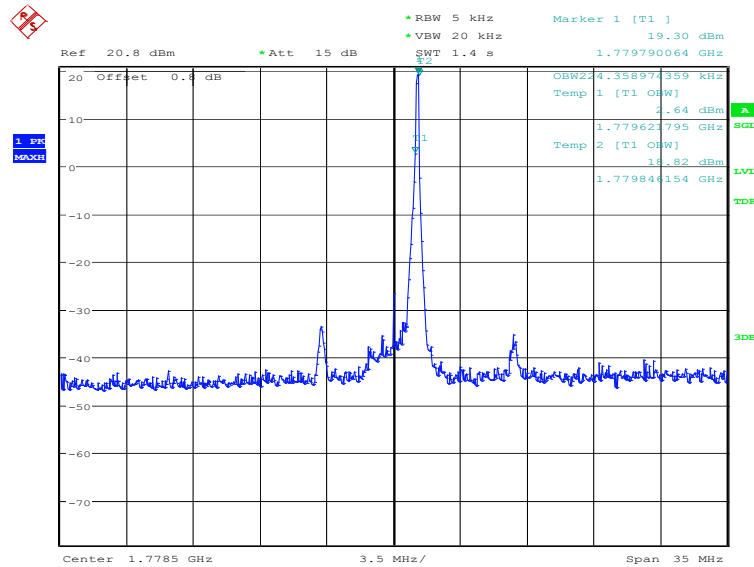
Date: 25.APR.2021 11:36:23

LOW BAND EDGE BLOCK-1RB-low_offset



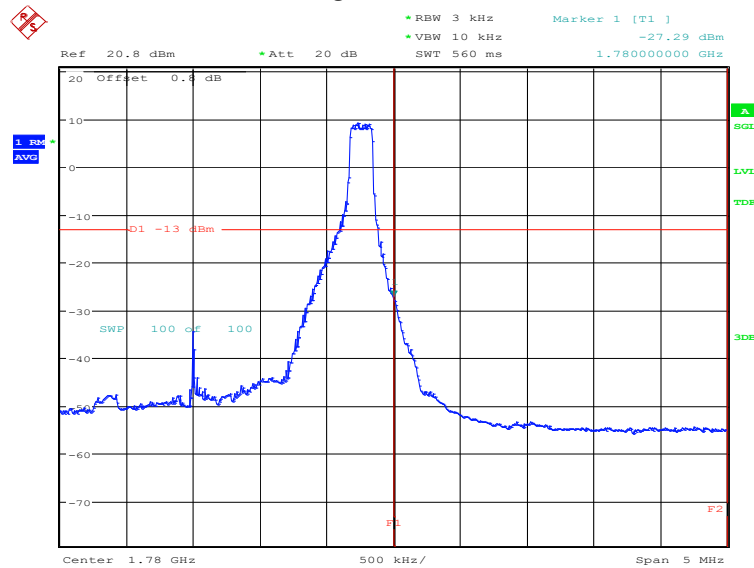
Date: 25.APR.2021 11:37:36

OBW: 1RB-high_offset



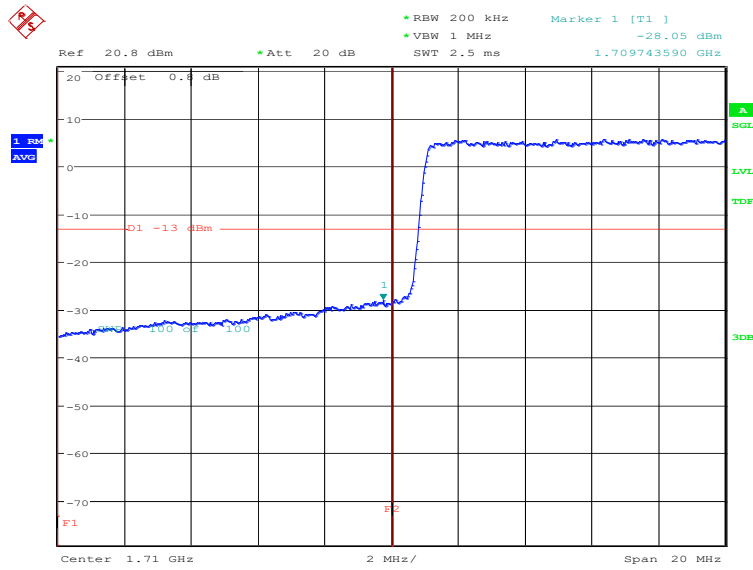
Date: 25.APR.2021 11:38:12

HIGH BAND EDGE BLOCK-1RB-high_offset



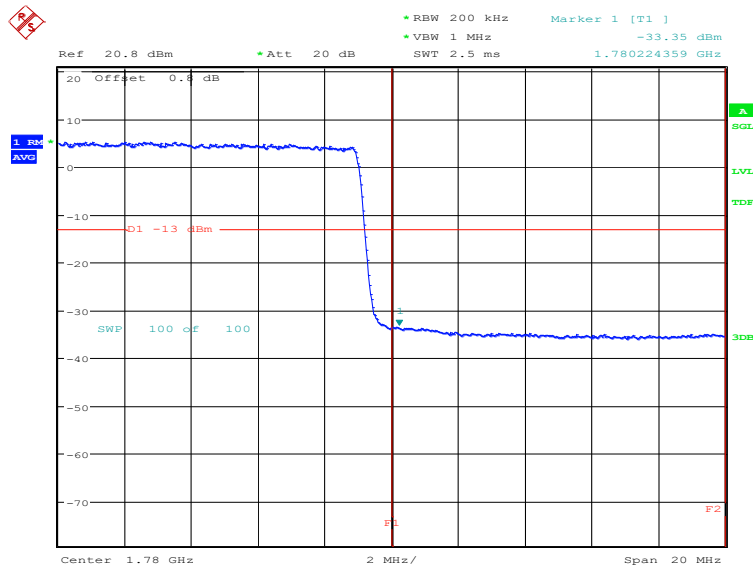
Date: 25.APR.2021 11:39:25

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 25.MAR.2021 23:32:34

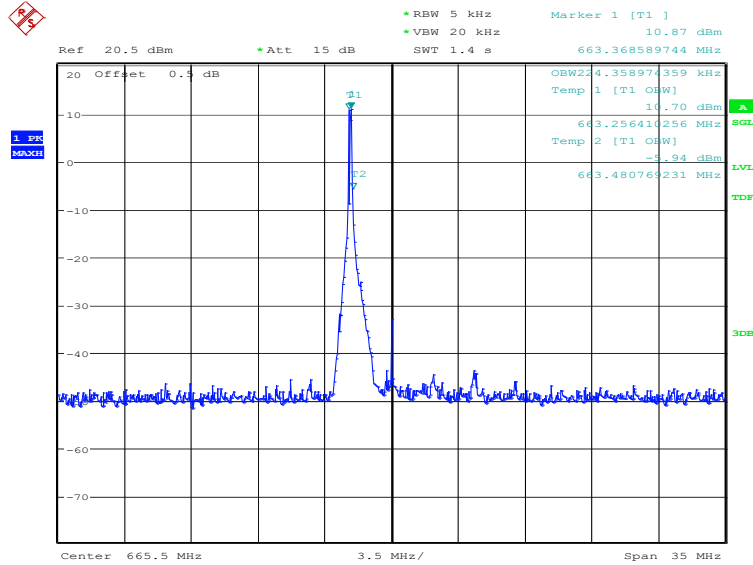
HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 25.MAR.2021 23:33:58

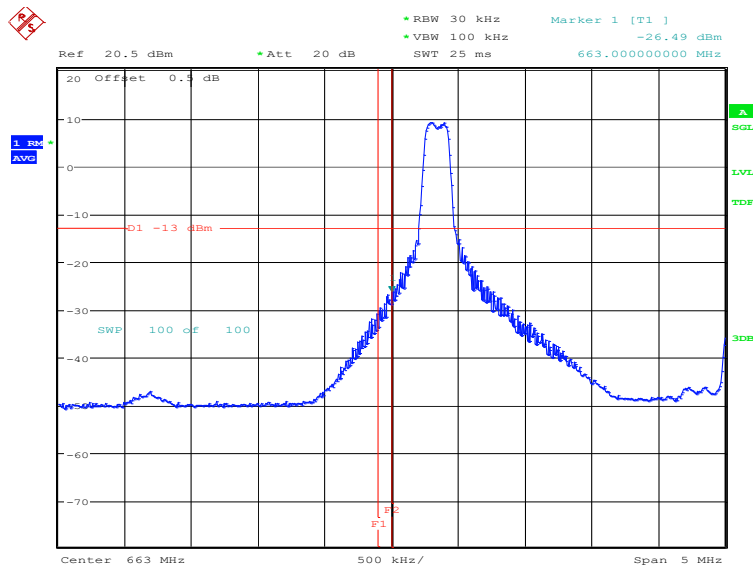
LTE band 71

OBW: 1RB-low_offset



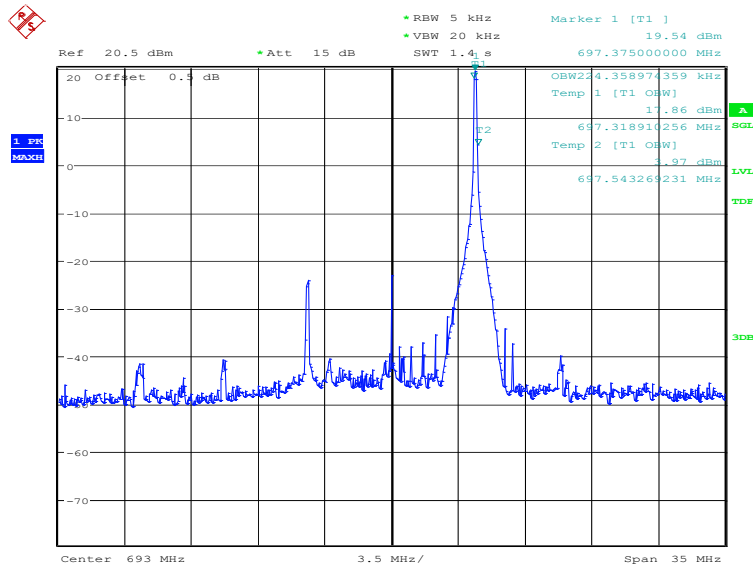
Date: 25.APR.2021 10:47:44

LOW BAND EDGE BLOCK-1RB-low_offset



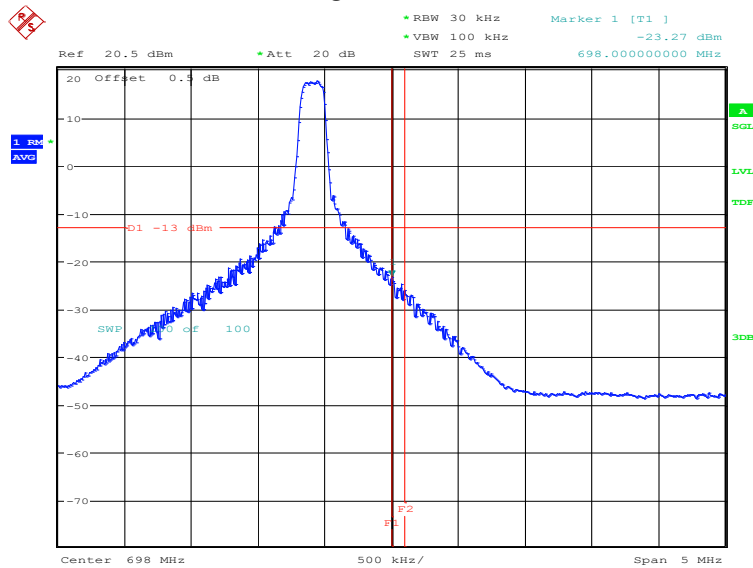
Date: 25.APR.2021 10:48:02

OBW: 1RB-high_offset



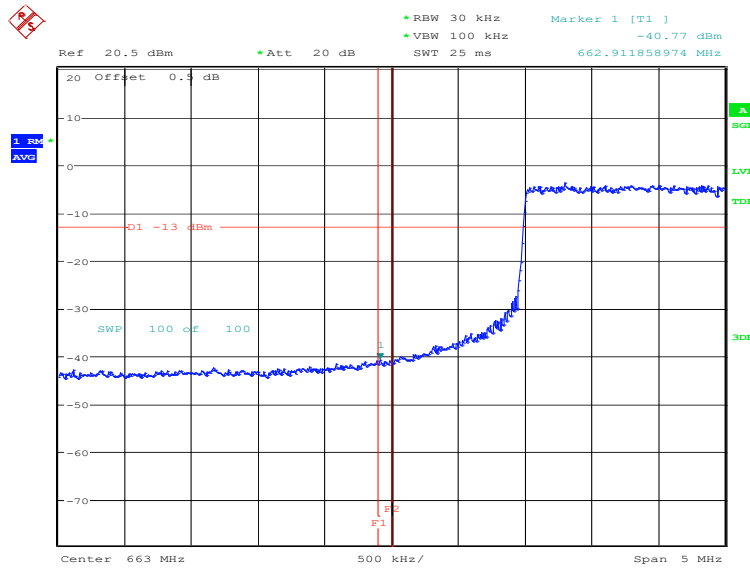
Date: 25.APR.2021 10:48:45

HIGH BAND EDGE BLOCK-1RB-high_offset



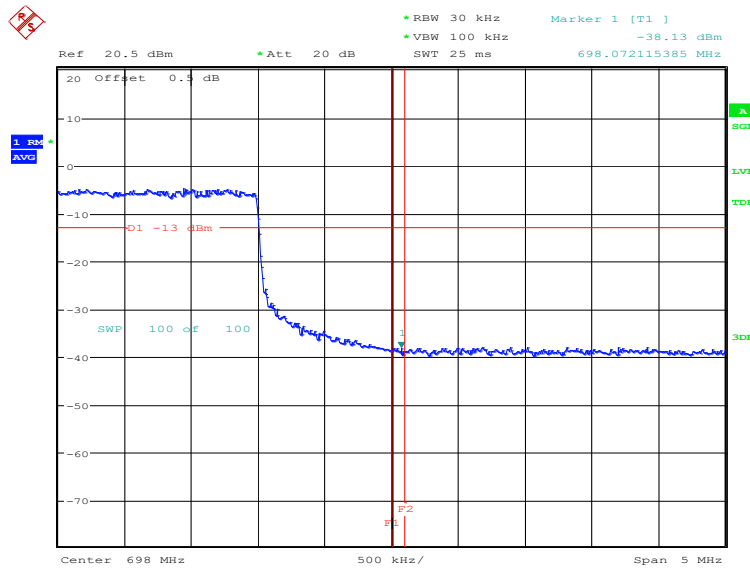
Date: 25.APR.2021 10:49:03

LOW BAND EDGE BLOCK-20MHz-100%RB



Date: 26.MAR.2021 08:36:34

HIGH BAND EDGE BLOCK-20MHz-100%RB



Date: 26.MAR.2021 08:37:55

A.7 Conducted Spurious Emission

A.7.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:
 - (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
 - (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is greater than $2 \times \text{span/RBW}$.

A. 7.2 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.

Part 27.53(m) 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 than $43 + 10 \log(P)$ 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(f) states for operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals.

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 27.53(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

Part 90.543 states that for operations in the 758–768 MHz and the 788–798 MHz bands, 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 all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations. (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations. (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB. (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment. (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 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 $116 \log_{10}(f/6.1)$ 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 $43 +$



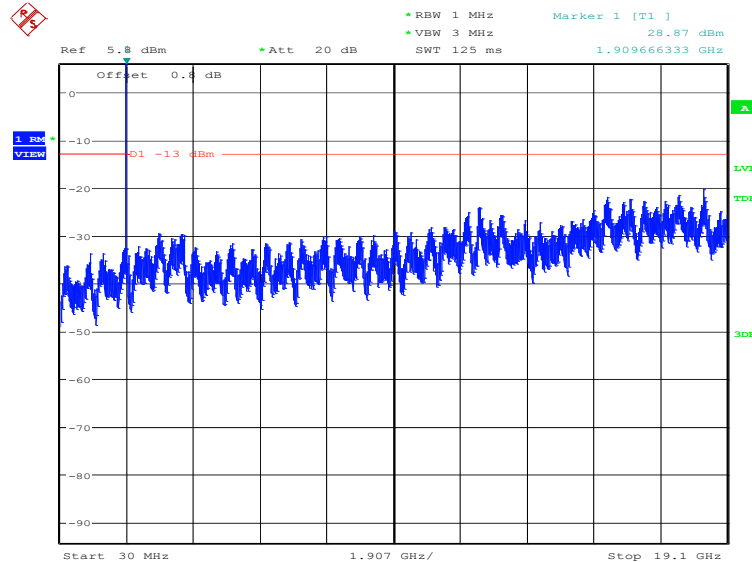
$10\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

A. 7.3 Measurement result

Only the worst case result is given below

LTE band 2: 30MHz – 19.1GHz

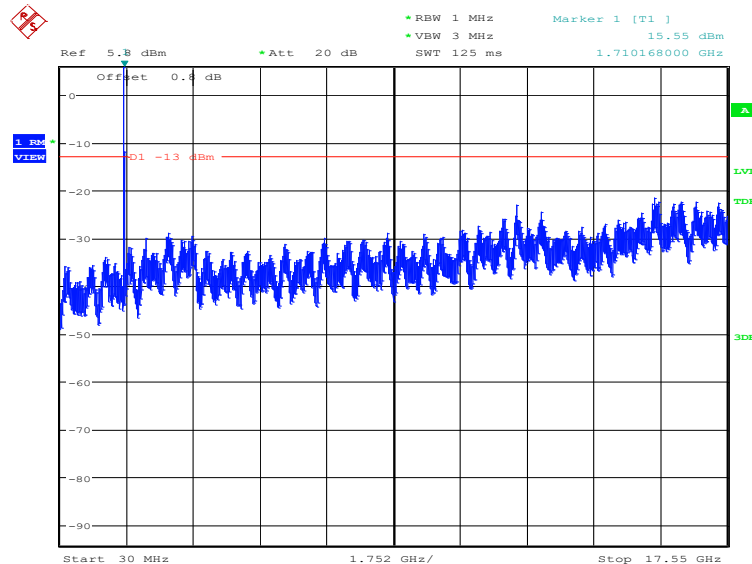
NOTE: peak above the limit line is the carrier frequency.



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LTE band 4: 30MHz – 17.55GHz

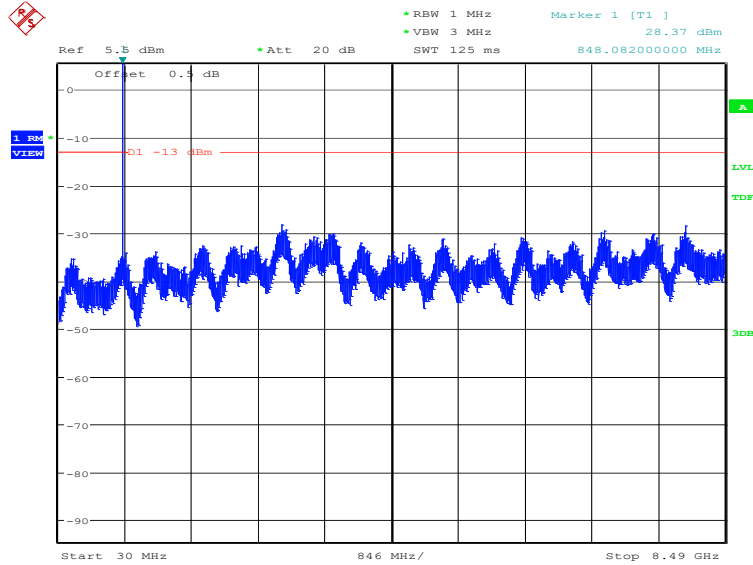
NOTE: peak above the limit line is the carrier frequency.



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LTE band 5: 30MHz – 8.49GHz

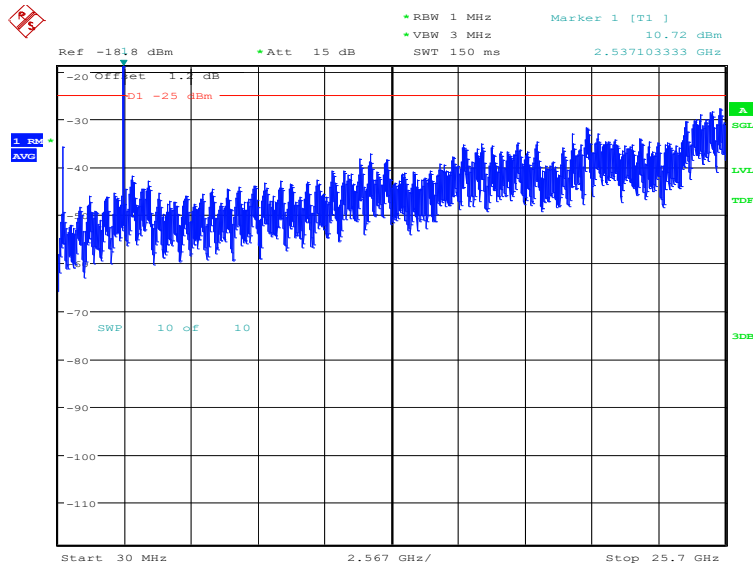
NOTE: peak above the limit line is the carrier frequency.



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LTE band 7: 30MHz – 25.7GHz

NOTE: peak above the limit line is the carrier frequency.



Date: 25.APR.2021 11:51:04