LTE CA band 38C, 20MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2595.0	39.420	39.250

LTE CA band 38C , 20MHz+20MHz Bandwidth,QPSK (-26dBc BW)

Date: 7.JUN.2025 14:45:19
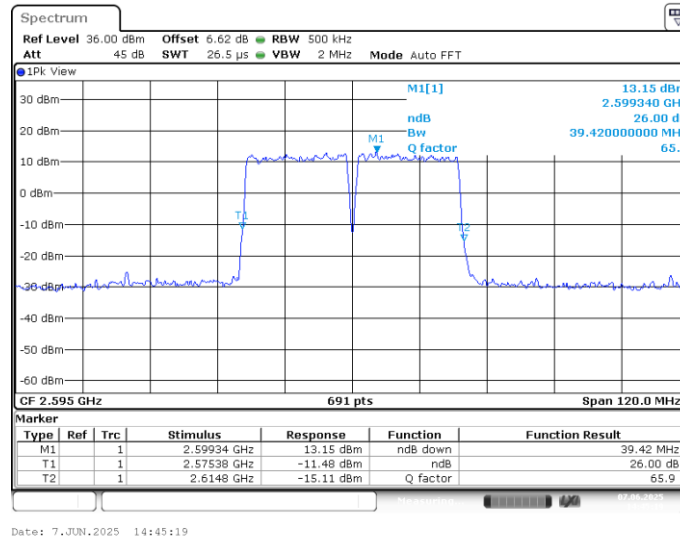
LTE CA band 38C , 20MHz+20MHz Bandwidth,16QAM (-26dBc BW)

Date: 7.JUN.2025 12:26:56
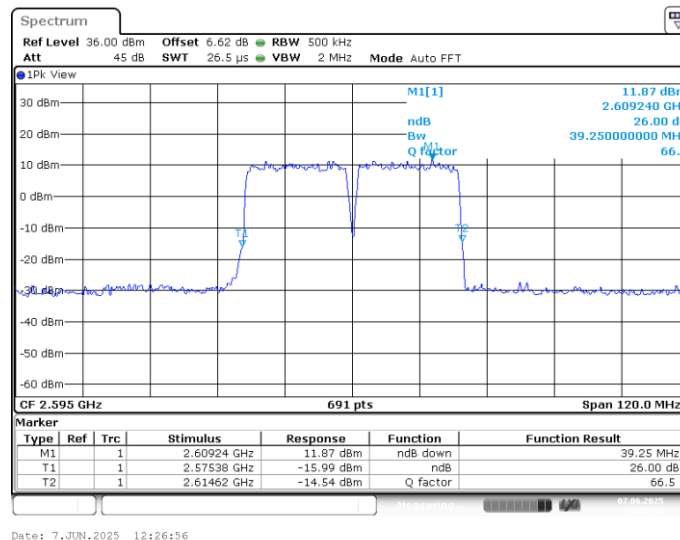
A.6 Band Edge Compliance

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 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(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 $116 Log_{10}(f/6.1)$ 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.

Part 27.53(n) states for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed
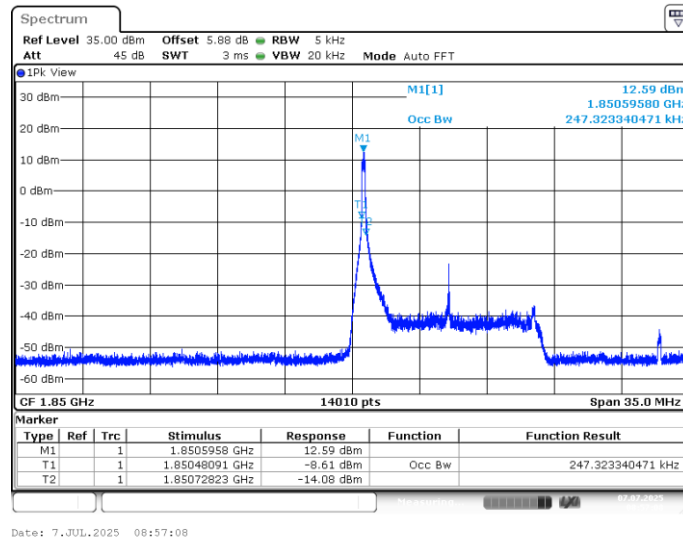
from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

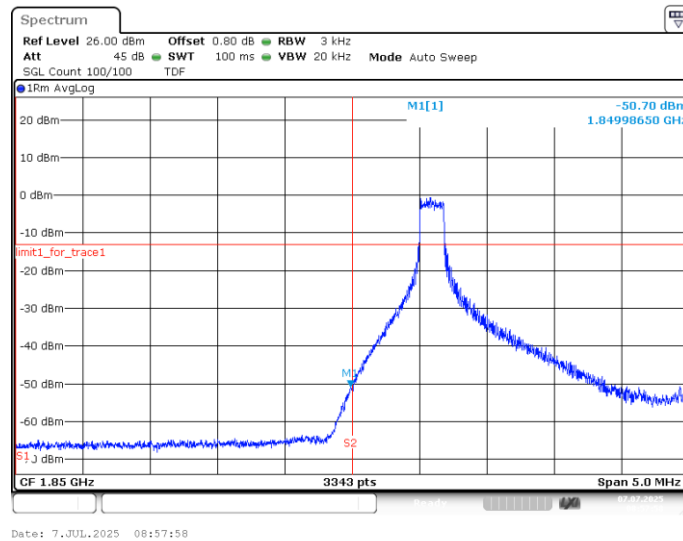The spectrum analyzer readings are corrected by [10 log (1/duty cycle)] for the non-continuous transmitting scenario.

A.6.2 Measurement result

LTE band 2

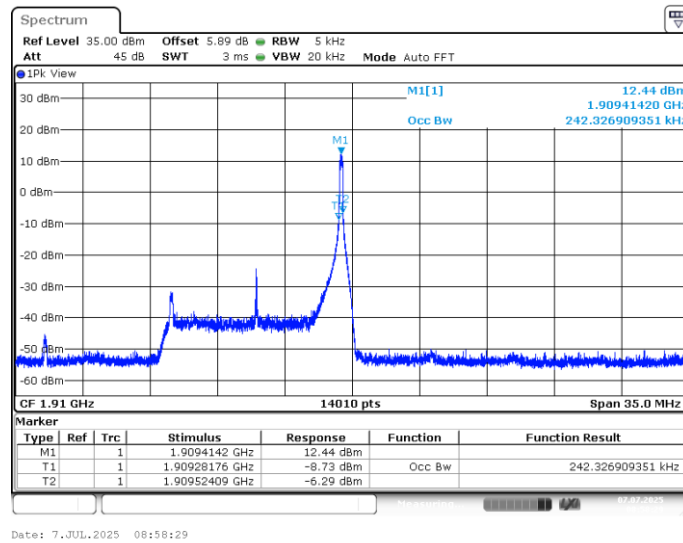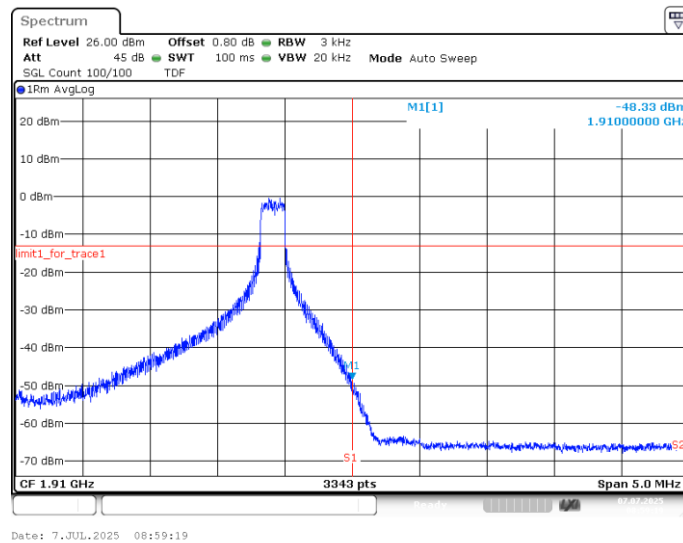## OBW: 1RB-LOW_offset

Date: 7.JUL.2025 08:57:08

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 08:57:58

OBW: 1RB-HIGH_offset

Date: 7.JUL.2025 08:58:29

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 08:59:19

LOW BAND EDGE BLOCK-20MHz-100%RB

Date: 9.JUN.2025 08:51:44

HIGH BAND EDGE BLOCK-20MHz-100%RB

Date: 9.JUN.2025 08:52:39
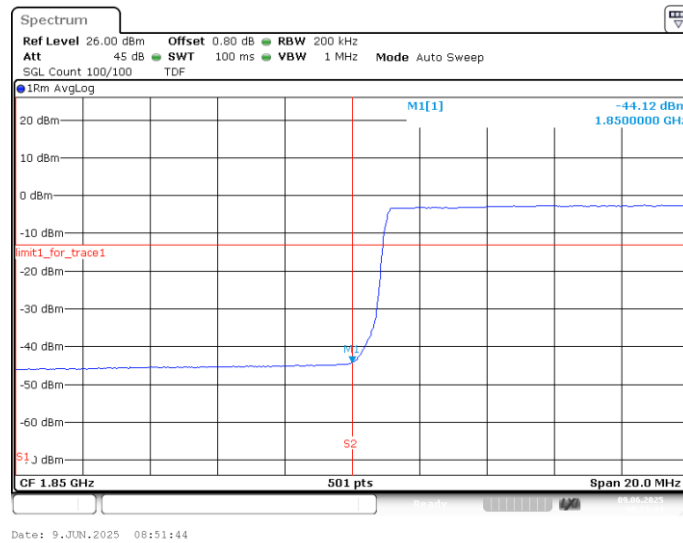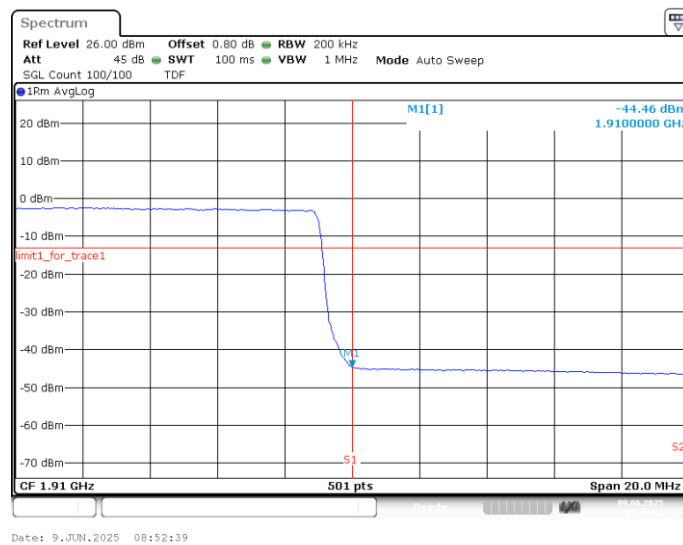
LTE band 4

OBW: 1RB-LOW_offset
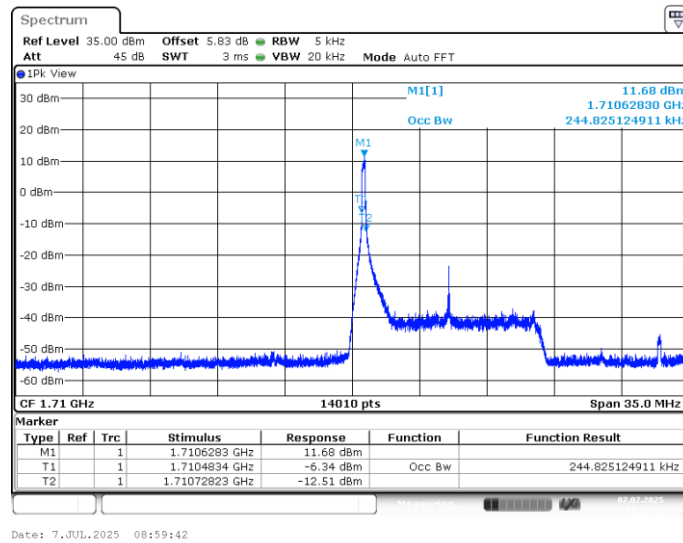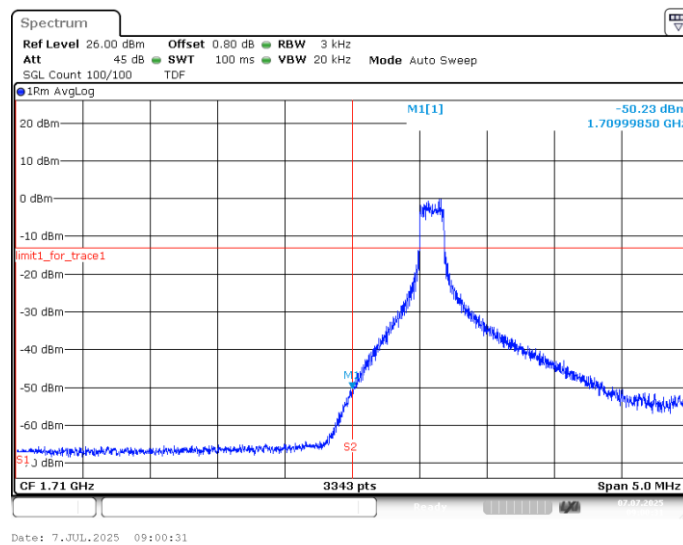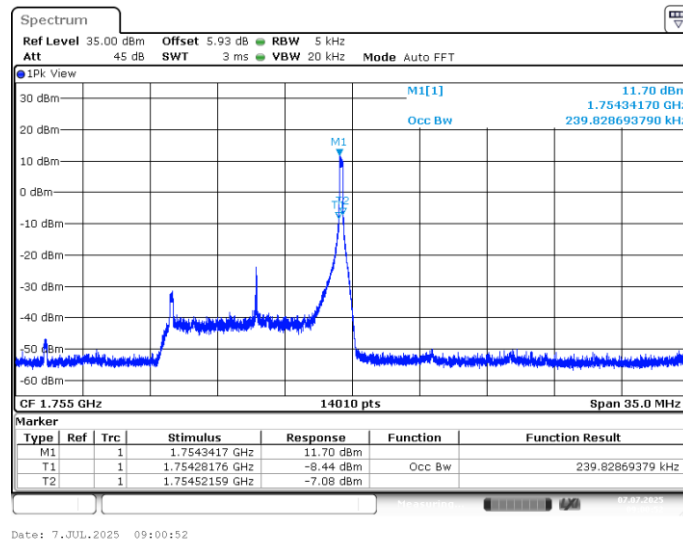
Date: 7.JUL.2025 08:59:42

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:00:31

OBW: 1RB-HIGH_offset

Date: 7.JUL.2025   09:00:52

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025   09:01:42

LOW BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 16:12:27

HIGH BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 16:13:22
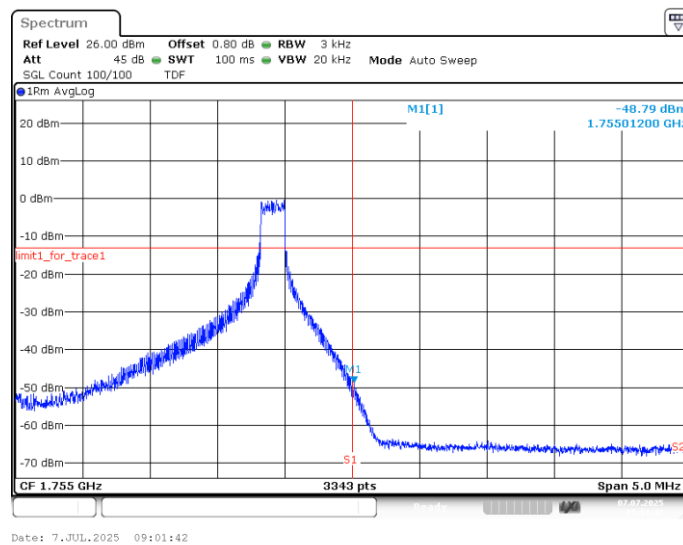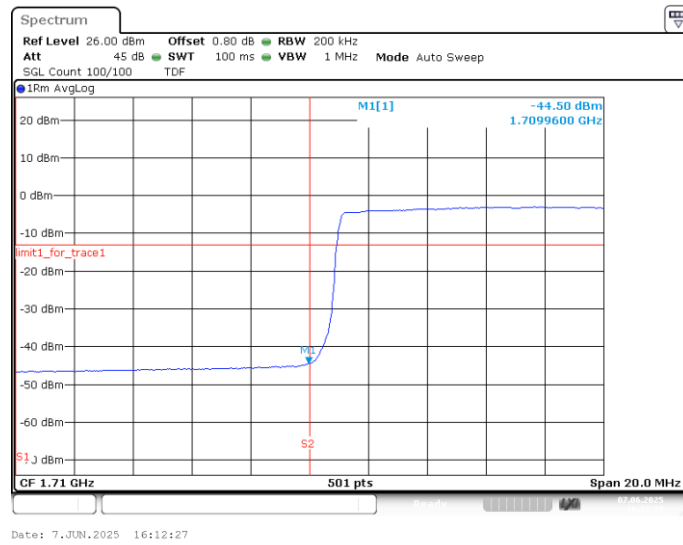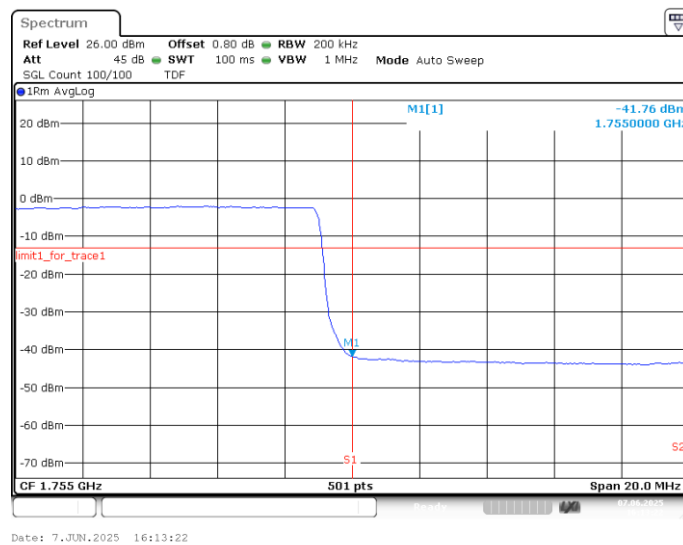
LTE band 5

OBW: 1RB-LOW_offset
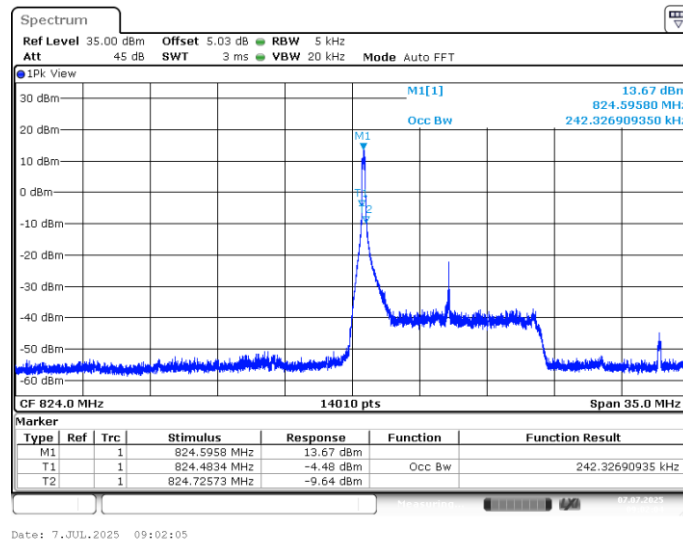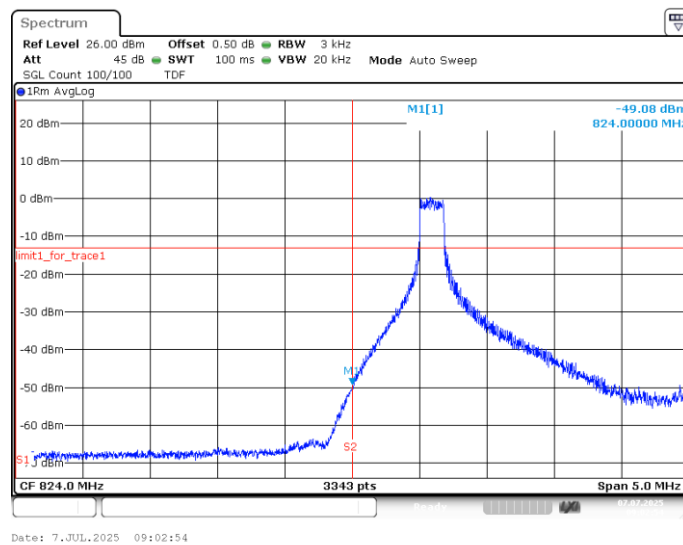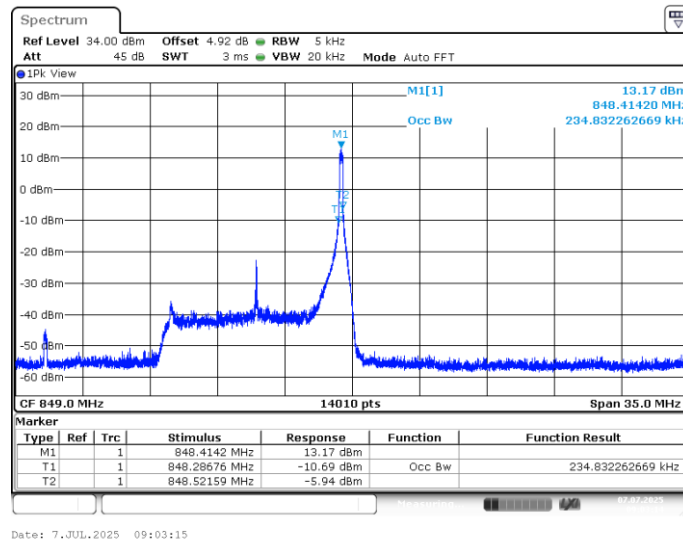
Date: 7.JUL.2025 09:02:05

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:02:54

OBW: 1RB-HIGH_offset

Date: 7.JUL.2025 09:03:15

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:04:05

LOW BAND EDGE BLOCK-10MHz-100%RB

Date: 9.JUN.2025 08:55:24

HIGH BAND EDGE BLOCK-10MHz-100%RB

Date: 9.JUN.2025 08:56:19
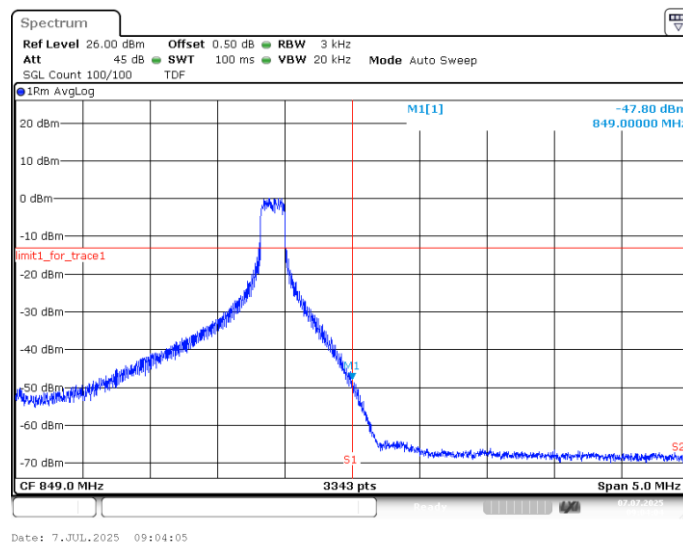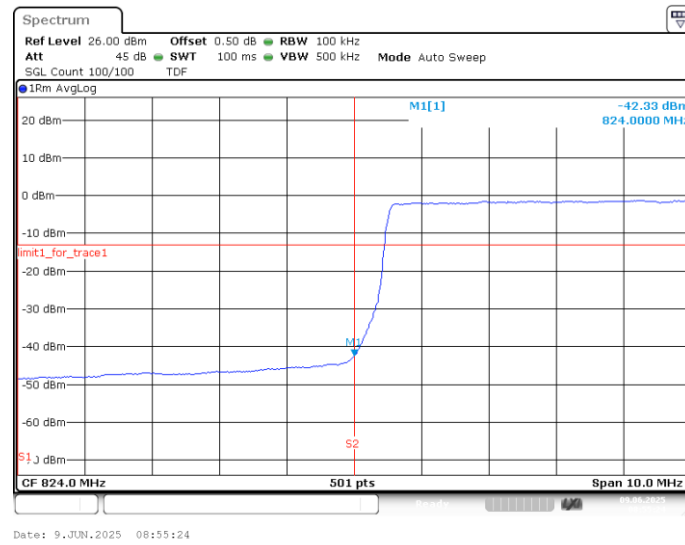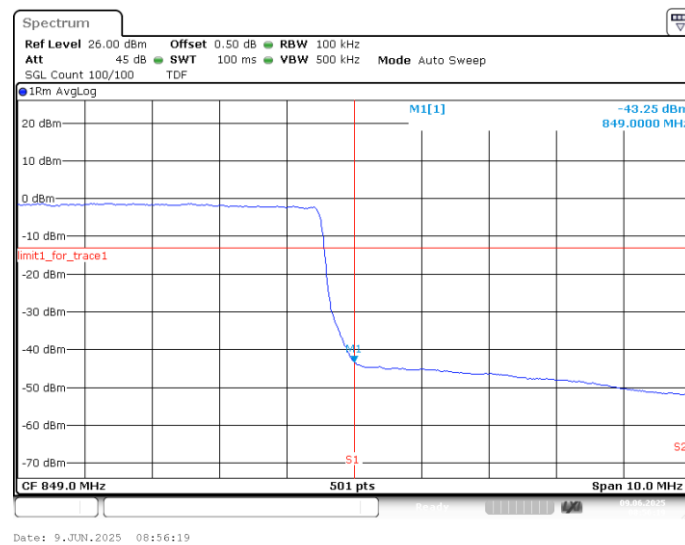
LTE band 7

OBW: 1RB-LOW_offset
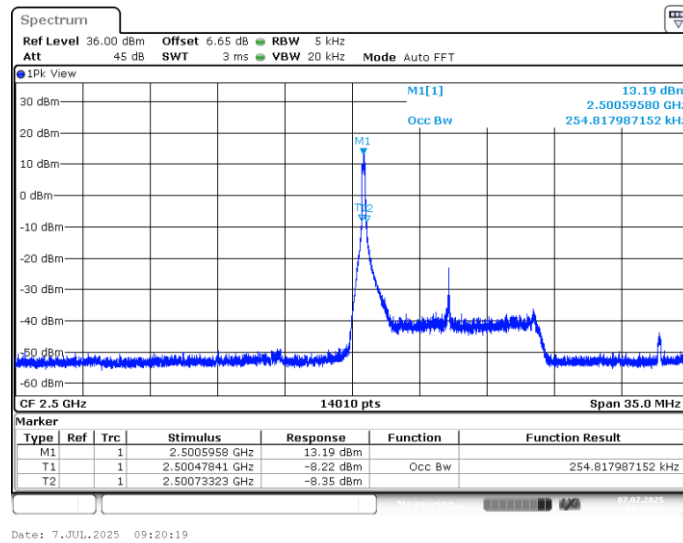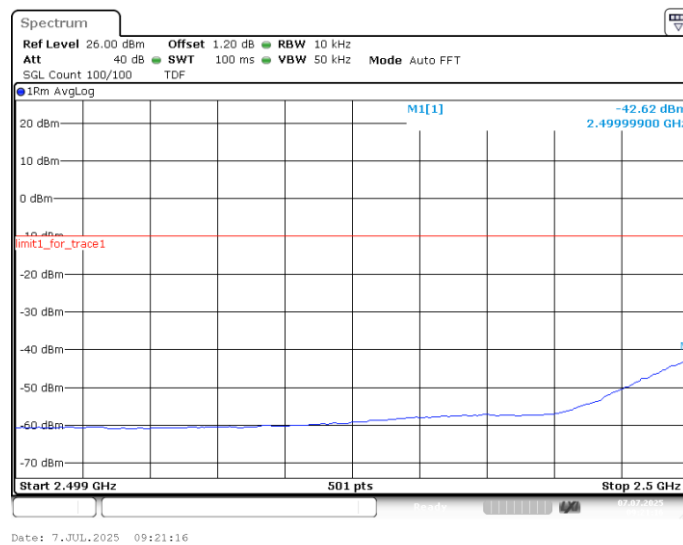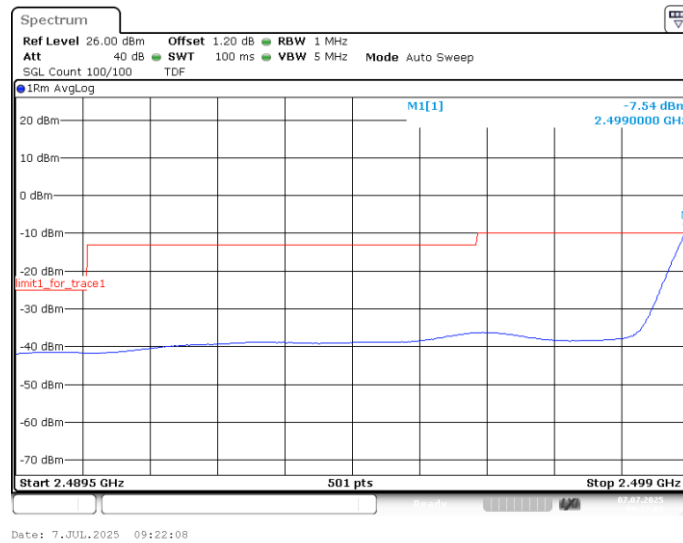
Date: 7.JUL.2025 09:20:19

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:21:16

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:22:08

Channel power

Date: 7.JUL.2025 09:22:54

OBW: 1RB-HIGH_offset

Date: 7.JUL.2025 09:23:15

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:24:12

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:25:04

Channel power

Date: 7.JUL.2025 09:25:49

LOW BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:31:22

LOW BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:32:14

HIGH BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:33:12

HIGH BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:34:04
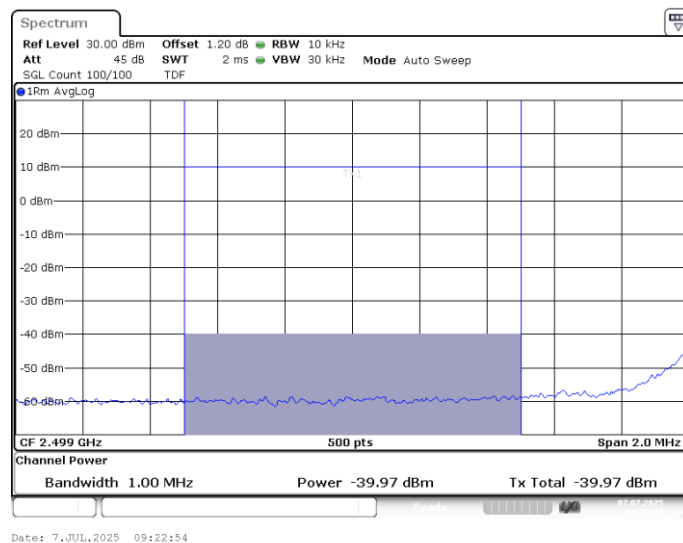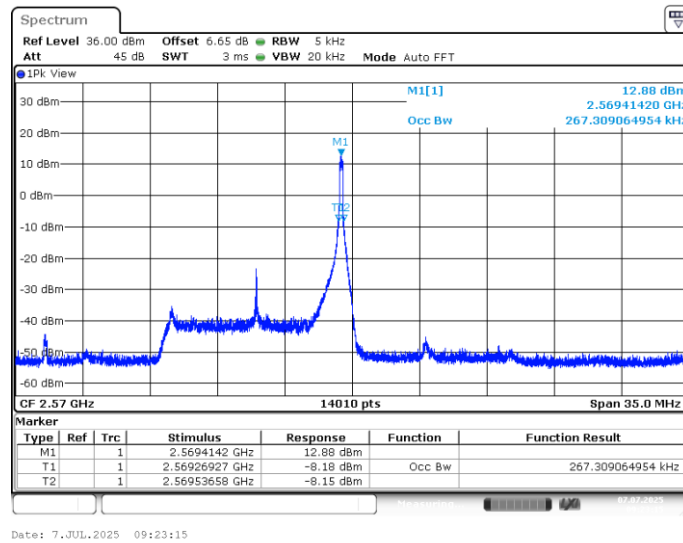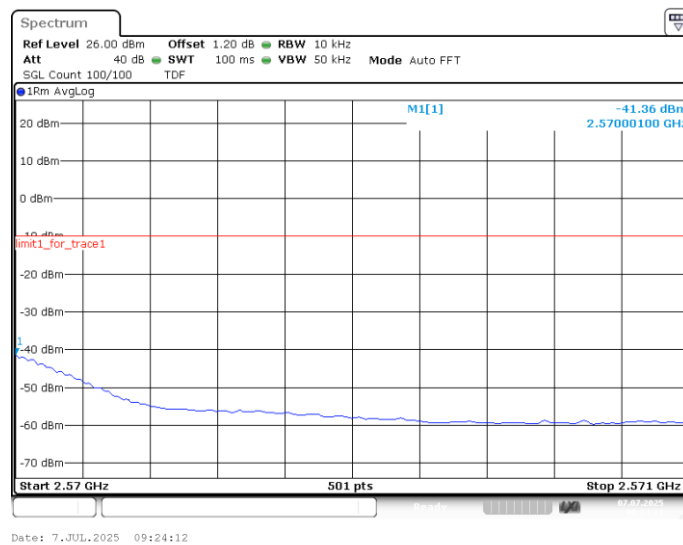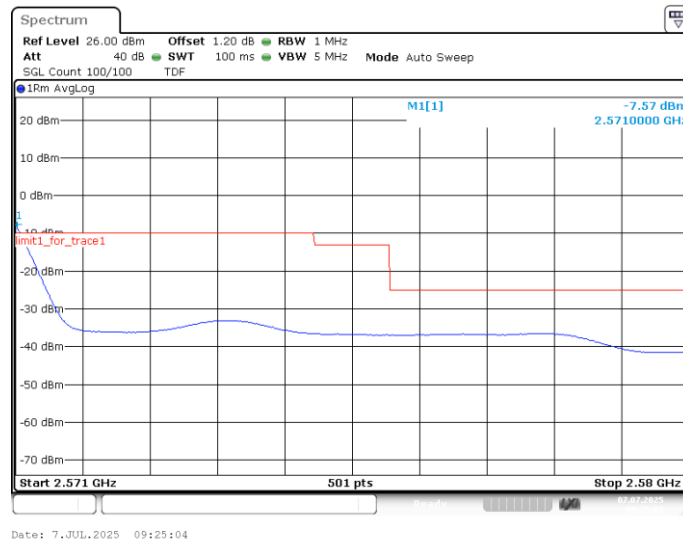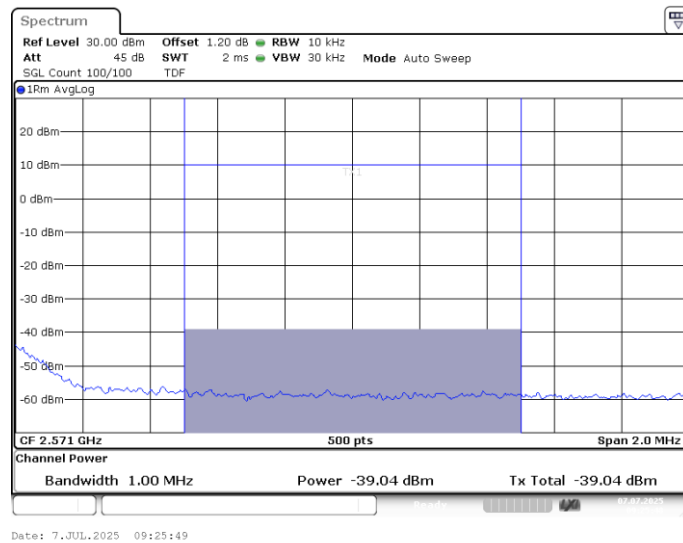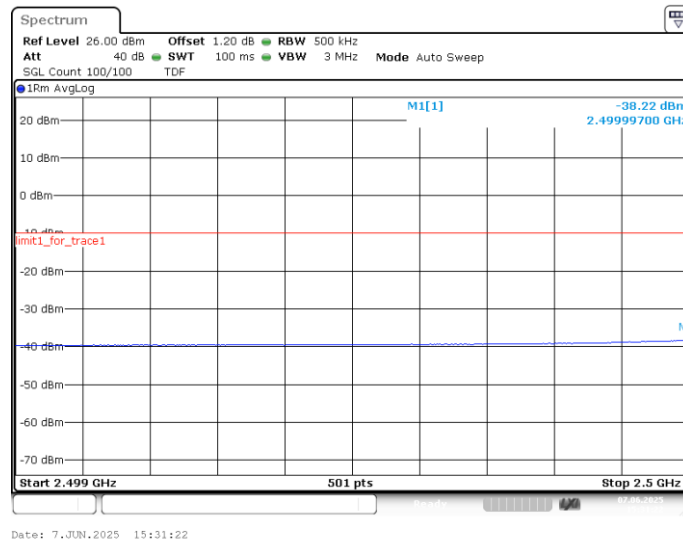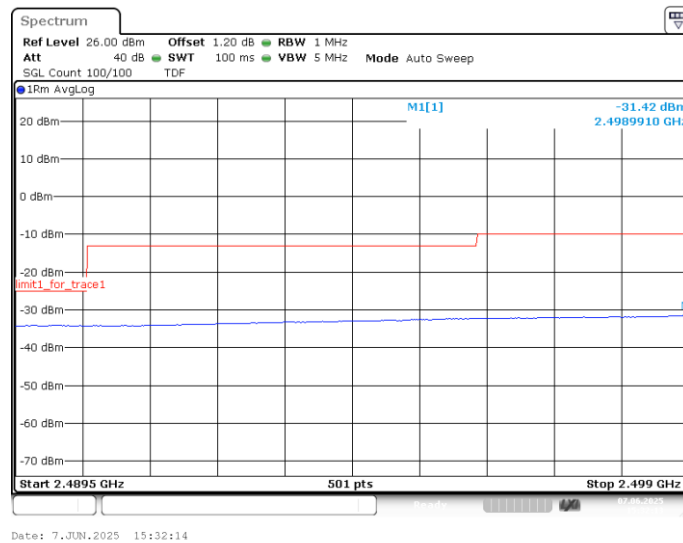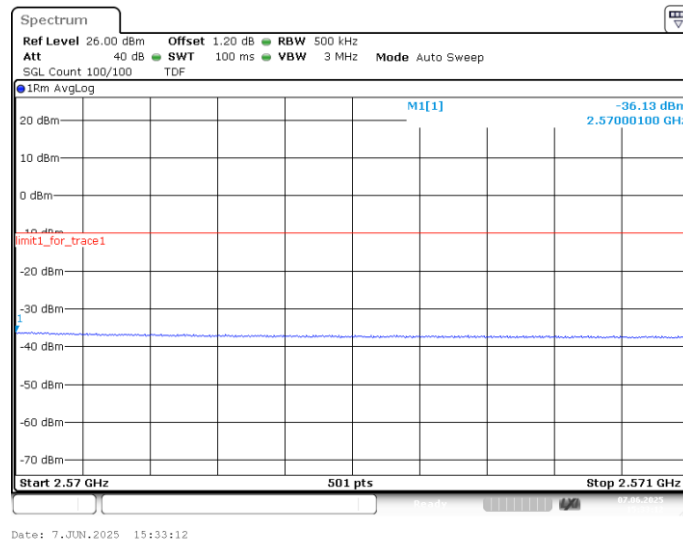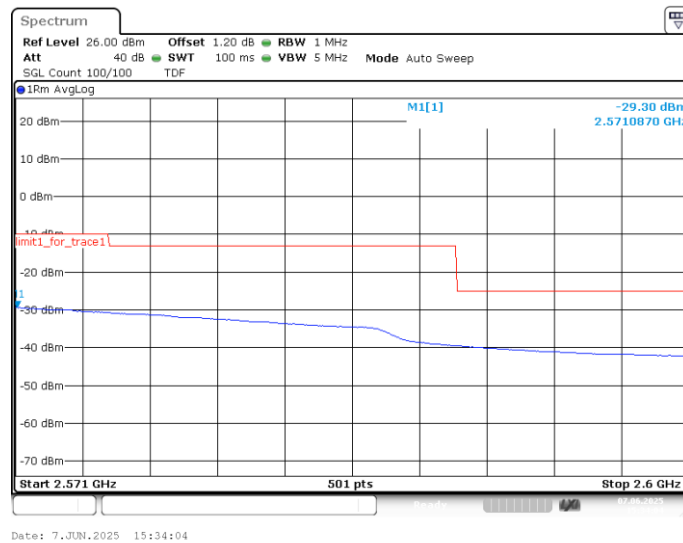
LTE band 12

LOW BAND EDGE BLOCK-1RB-LOW_offset
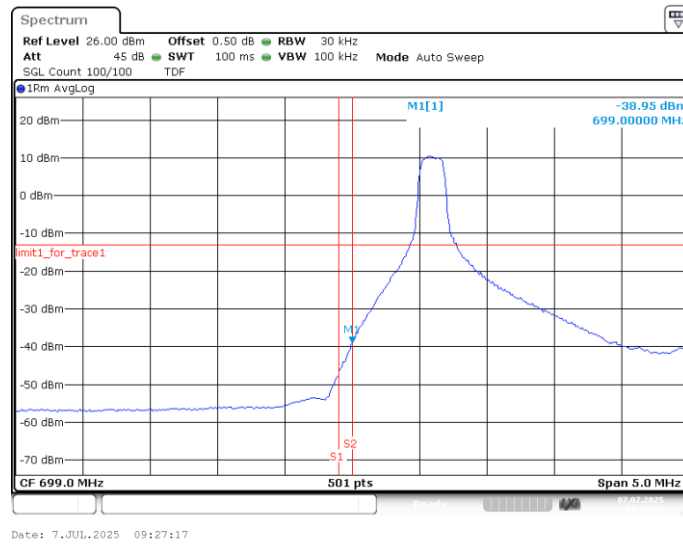
Date: 7.JUL.2025 09:27:17

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:29:04

LOW BAND EDGE BLOCK-10MHz-100%RB

Date: 9.JUN.2025 08:57:15

HIGH BAND EDGE BLOCK-10MHz-100%RB

Date: 9.JUN.2025 08:59:00
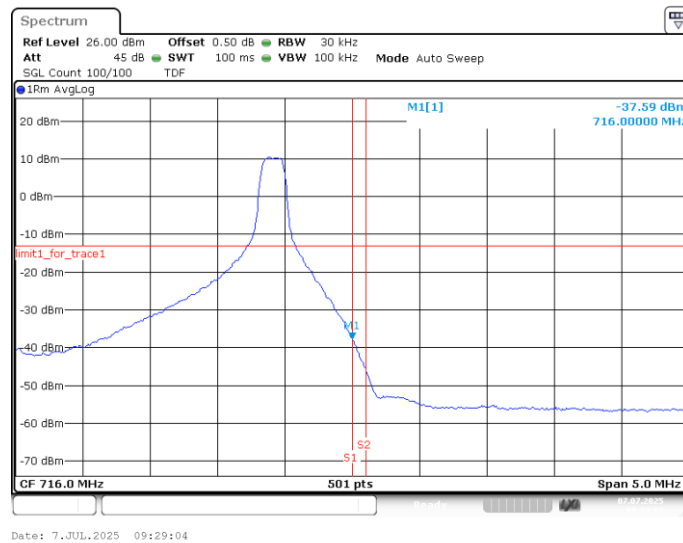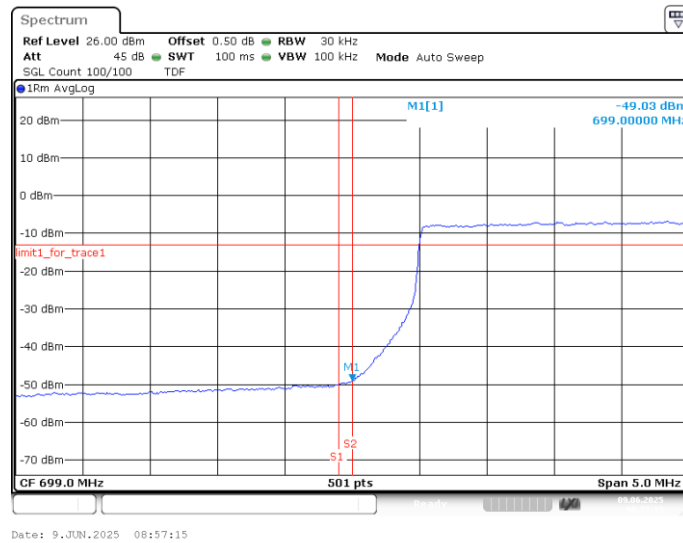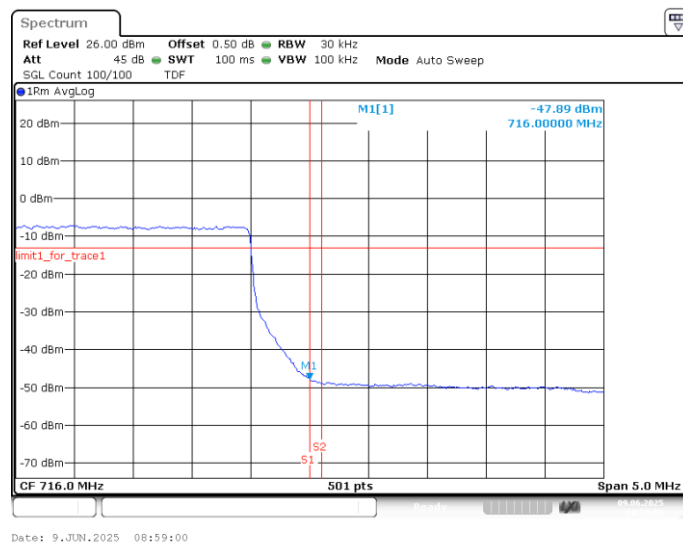
LTE band 17

LOW BAND EDGE BLOCK-1RB-LOW_offset
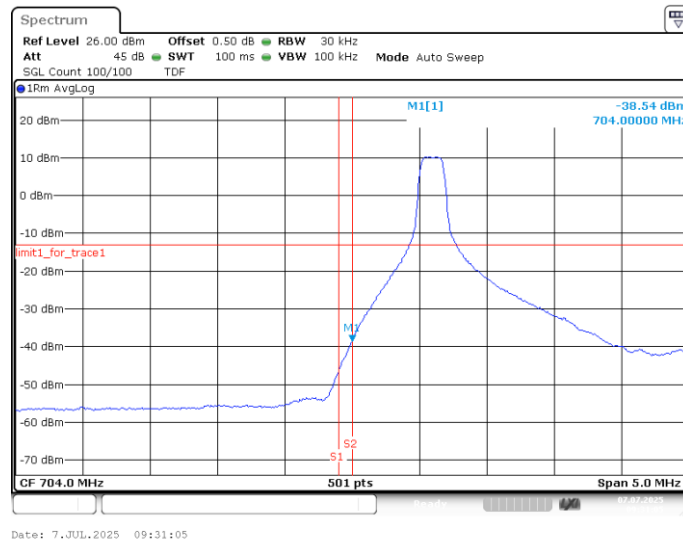
Date: 7.JUL.2025 09:31:05

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:33:06

LOW BAND EDGE BLOCK-10MHz-100%RB

Date: 7.JUN.2025 16:15:07

HIGH BAND EDGE BLOCK-10MHz-100%RB

Date: 7.JUN.2025 16:16:53
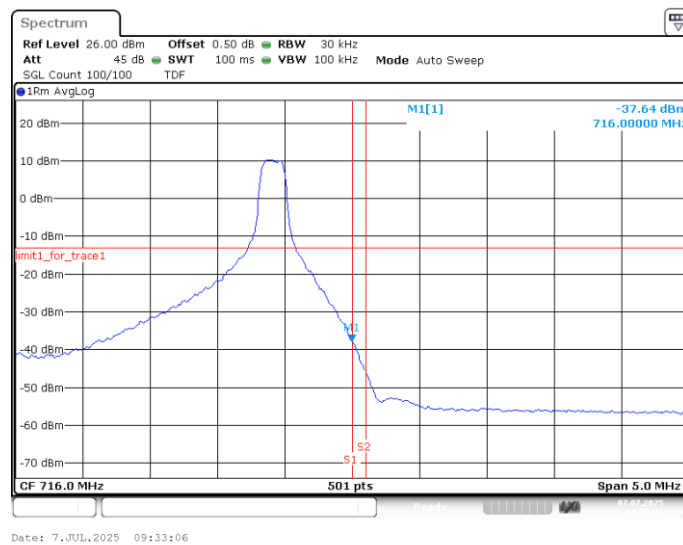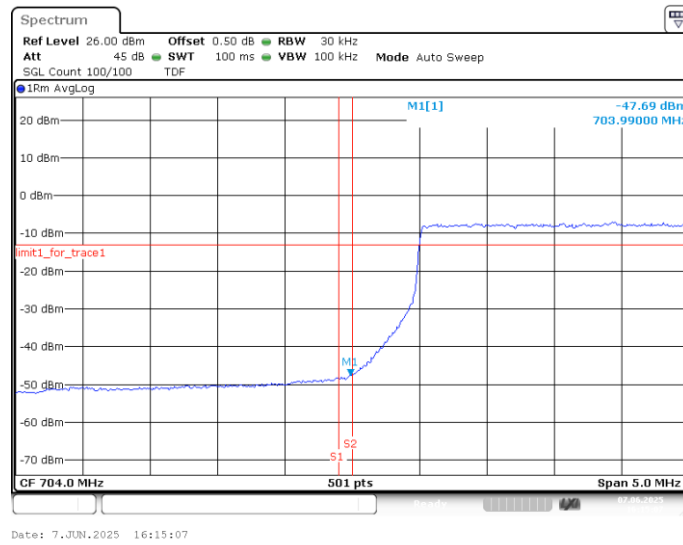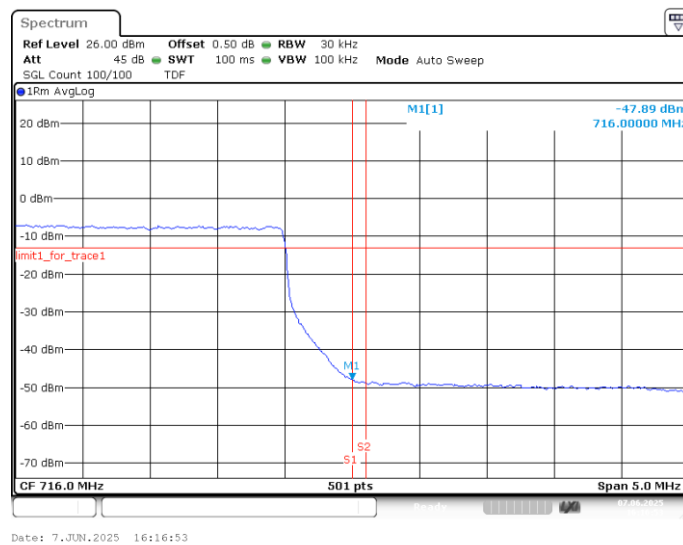
LTE band 26_Part22

OBW: 1RB-LOW_offset
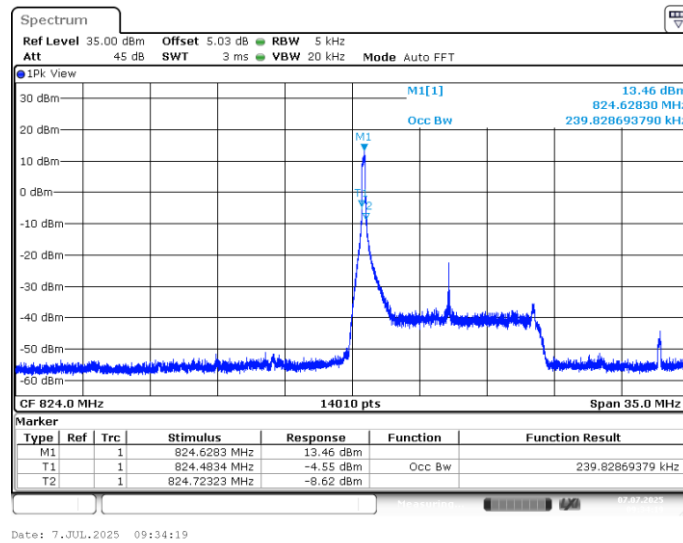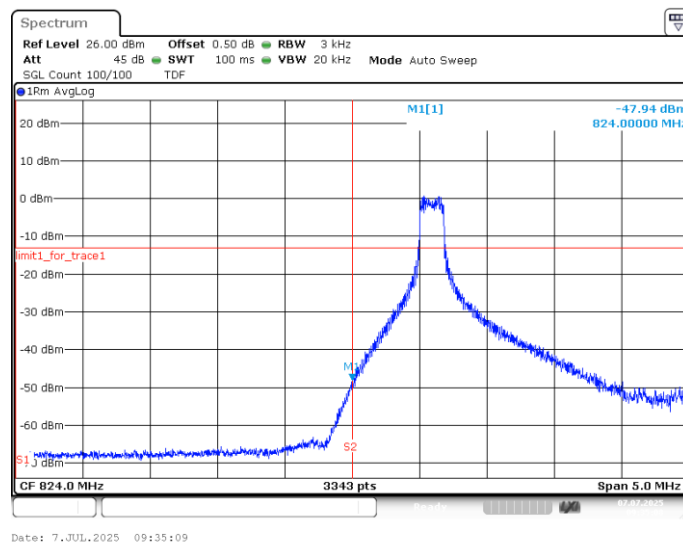
Date: 7.JUL.2025   09:34:19

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025   09:35:09

OBW: 1RB-HIGH_offset

Date: 7.JUL.2025 09:35:29

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:36:19

LOW BAND EDGE BLOCK-15MHz-100%RB

Date: 9.JUN.2025 09:00:49
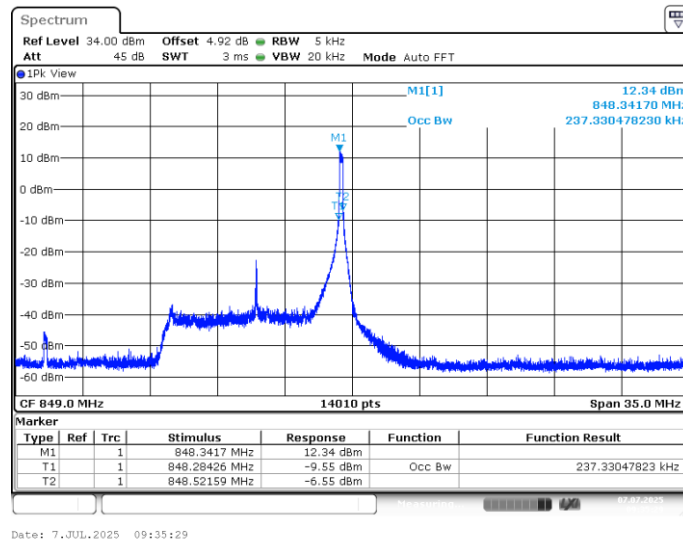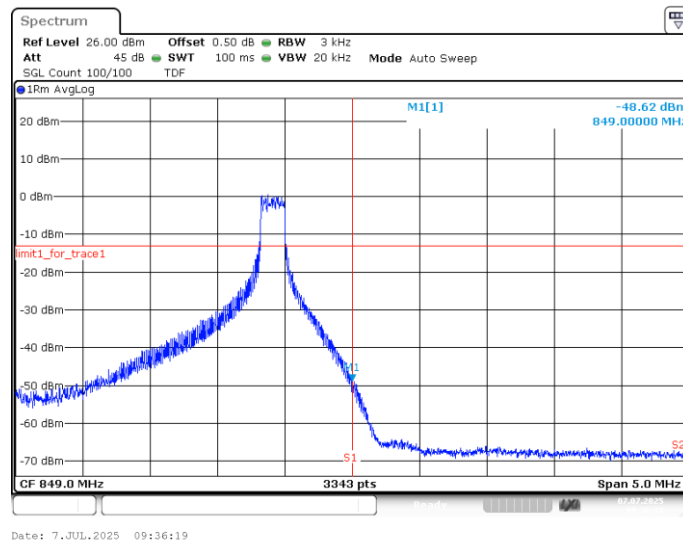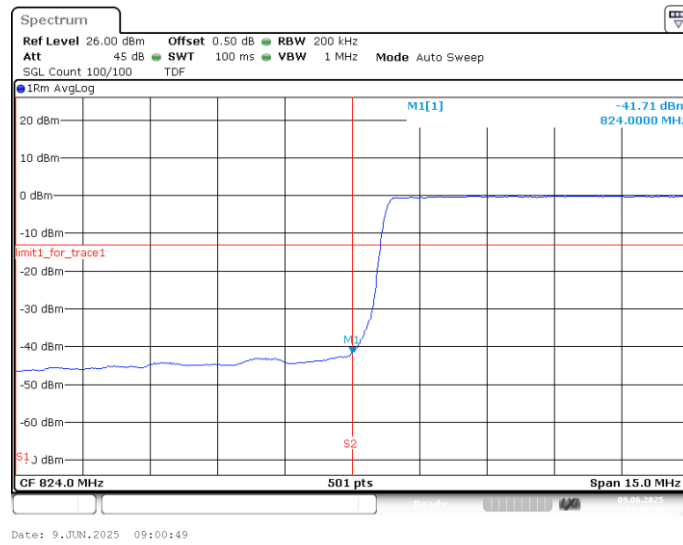
HIGH BAND EDGE BLOCK-15MHz-100%RB

Date: 9.JUN.2025 09:01:44
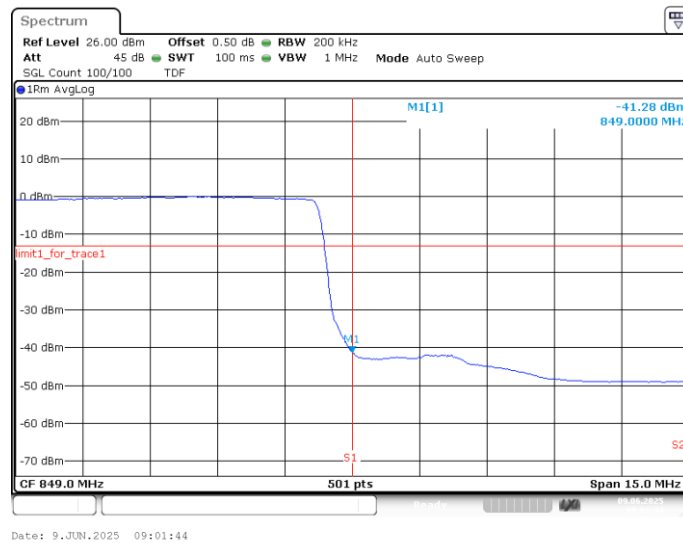
LTE band 26_Part90

OBW: 1RB-LOW_offset
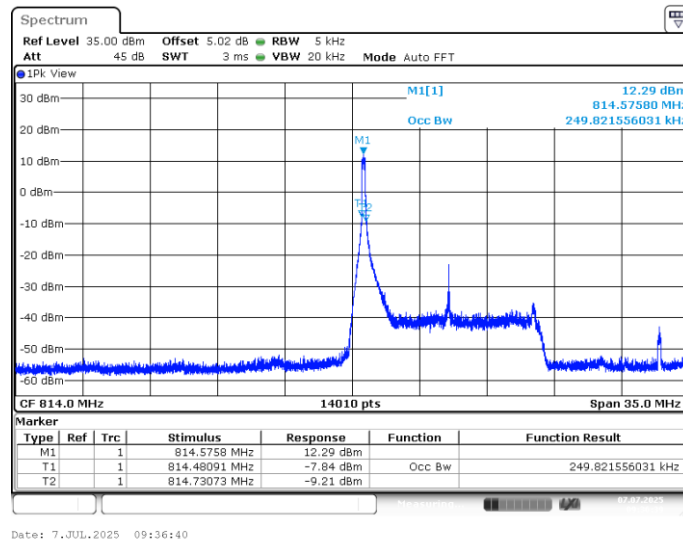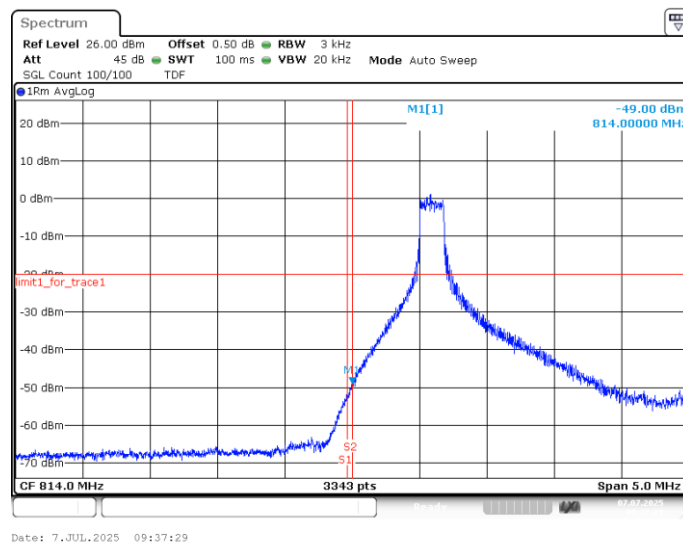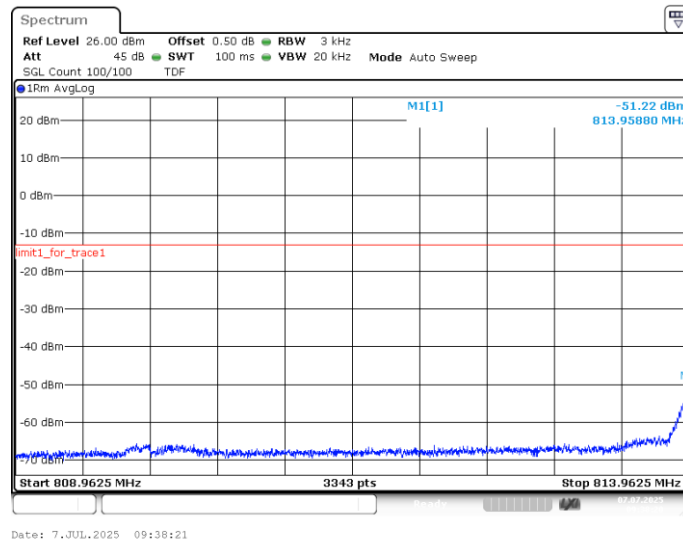
Date: 7.JUL.2025 09:36:40

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:37:29

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:38:21

OBW: 1RB-HIGH_offset

Date: 7.JUL.2025 09:38:37

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025   09:39:27

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025   09:40:18

LOW BAND EDGE BLOCK-10MHz-100%RB

Date: 9.JUN.2025   09:03:00

LOW BAND EDGE BLOCK-10MHz-100%RB

Date: 9.JUN.2025   09:03:51

HIGH BAND EDGE BLOCK-10MHz-100%RB

Date: 9.JUN.2025 09:04:42

HIGH BAND EDGE BLOCK-10MHz-100%RB

Date: 9.JUN.2025 09:05:33
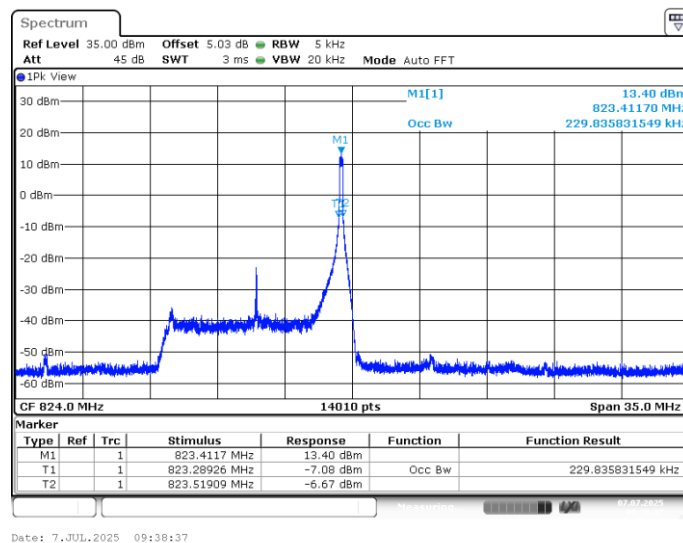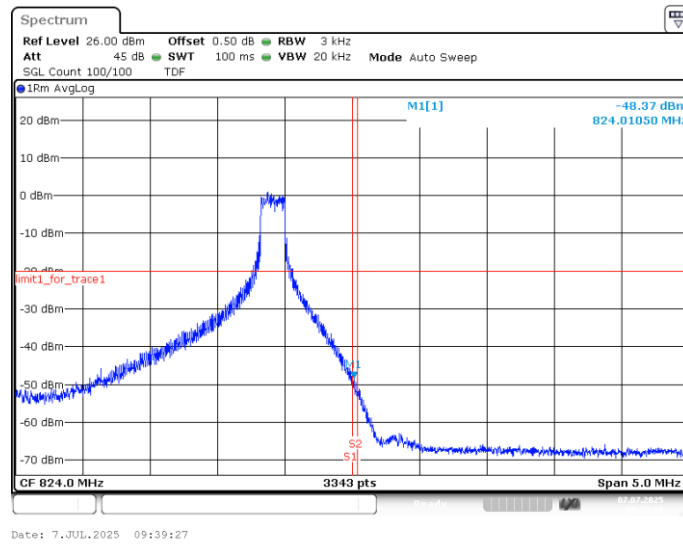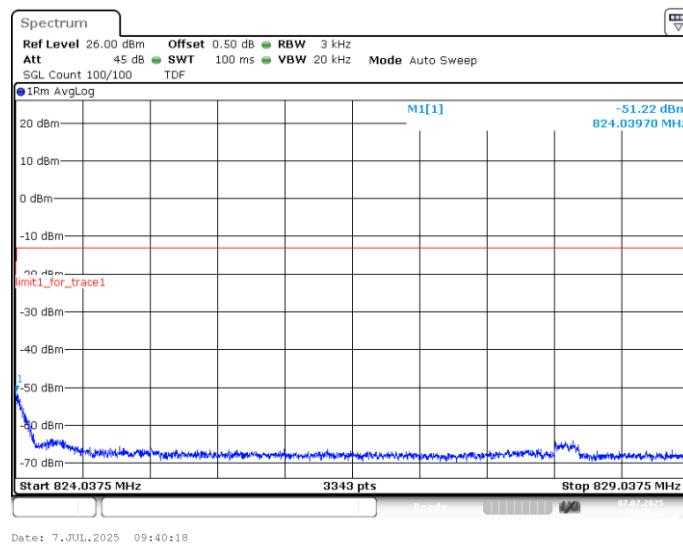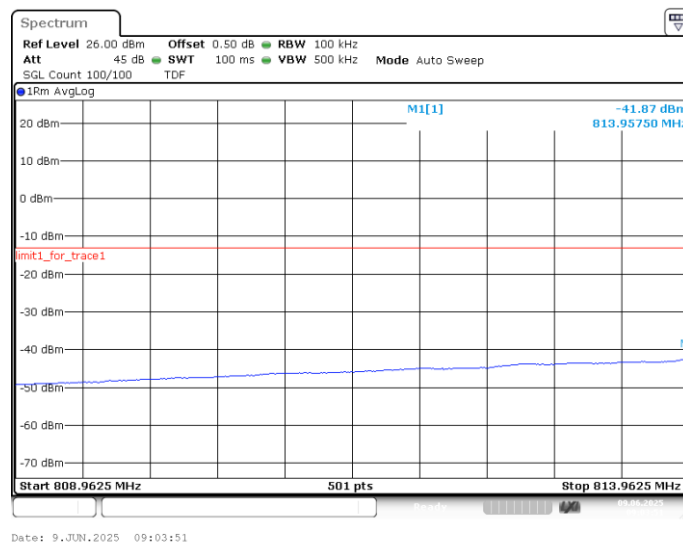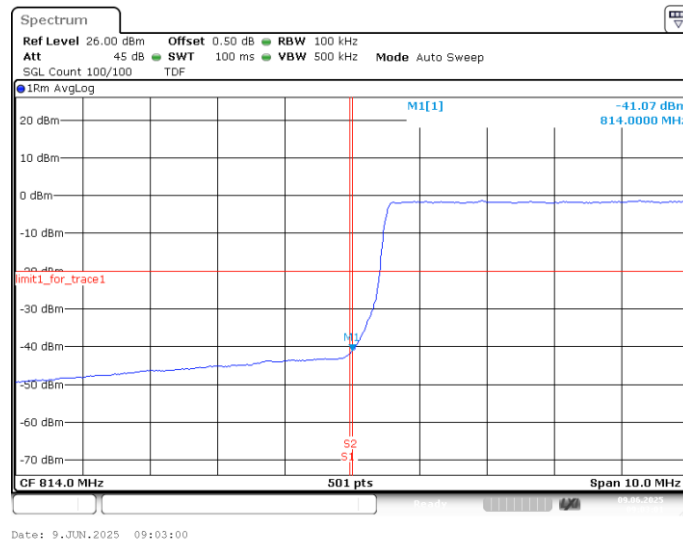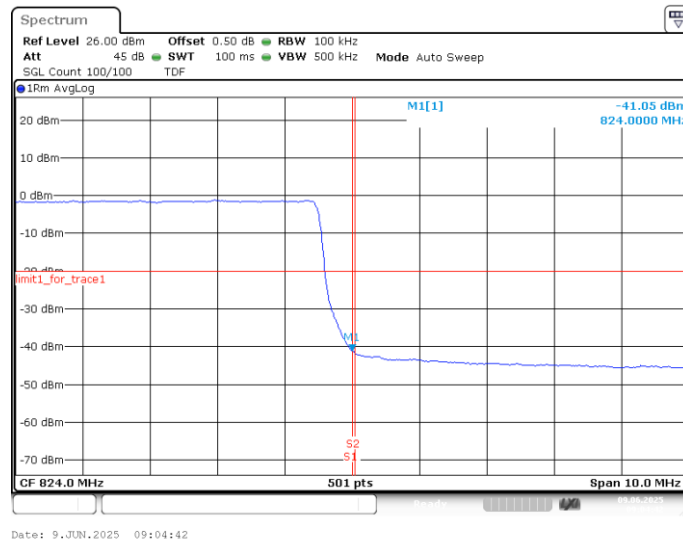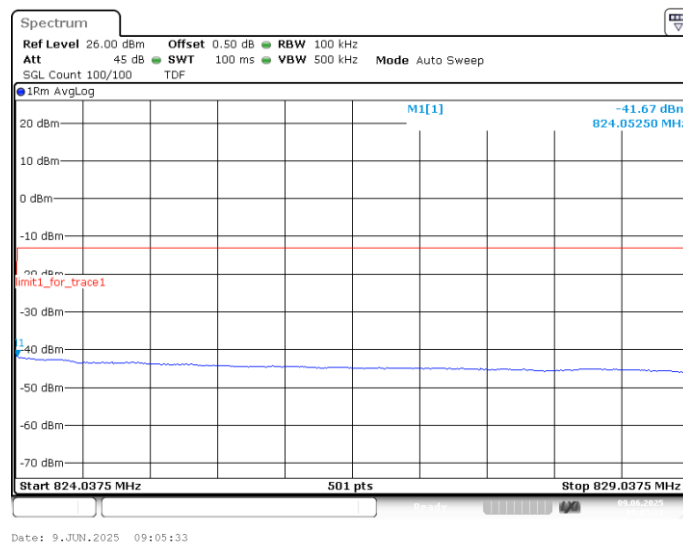
LTE band 38

OBW: 1RB-LOW_offset
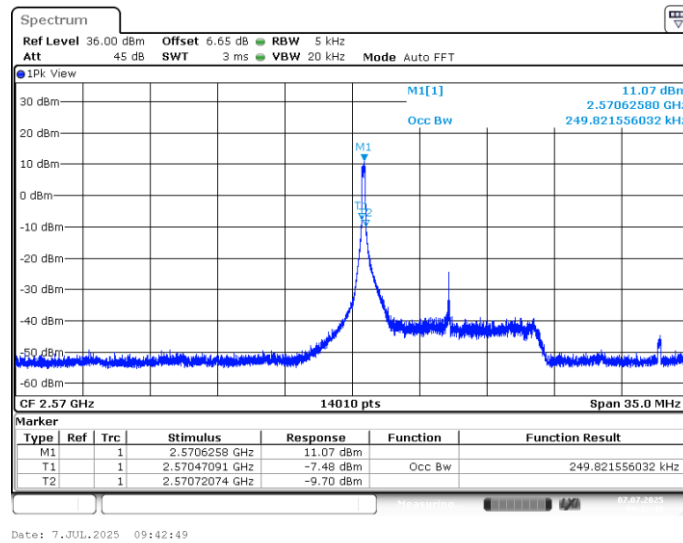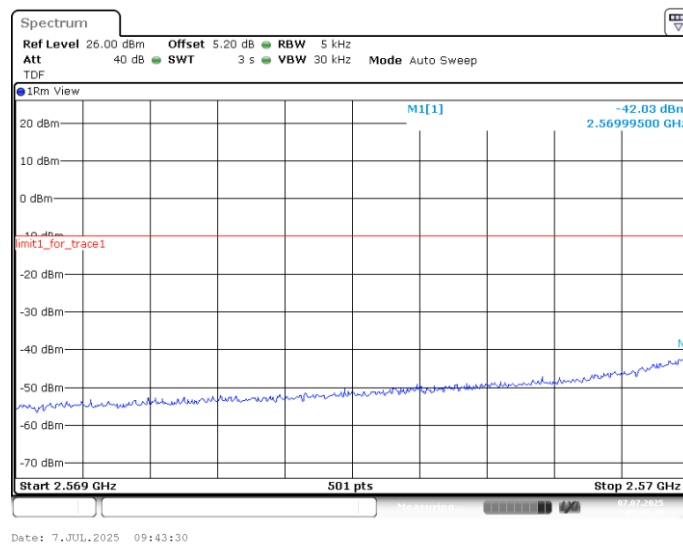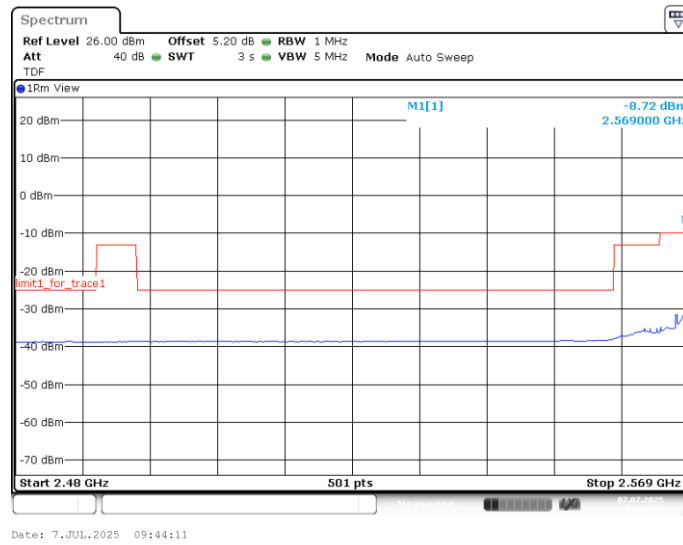
Date: 7.JUL.2025 09:42:49

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:43:30

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:44:11

Channel power

Date: 7.JUL.2025 09:44:59

OBW: 1RB-HIGH_offset

Date: 7.JUL.2025 09:45:21

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:46:02

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:46:43

Channel power

Date: 7.JUL.2025 09:47:31

LOW BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:35:10

LOW BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:35:51

HIGH BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:36:38

HIGH BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:37:19
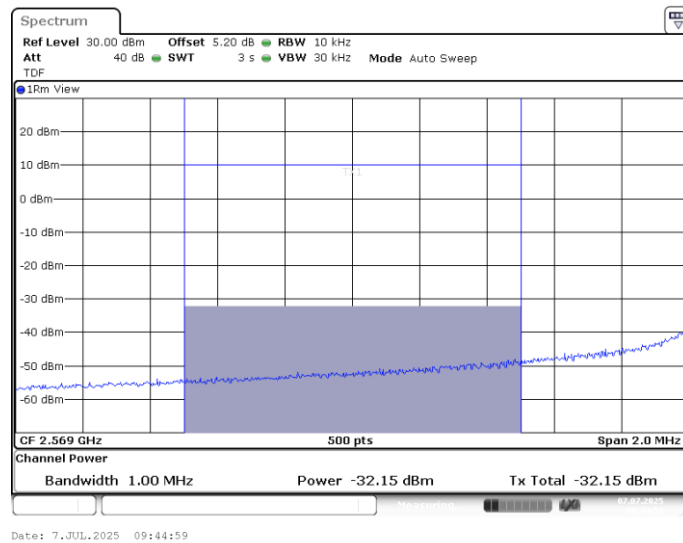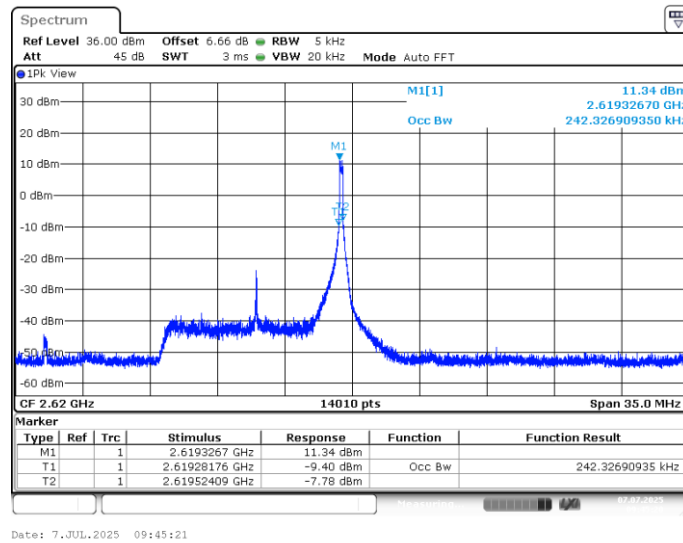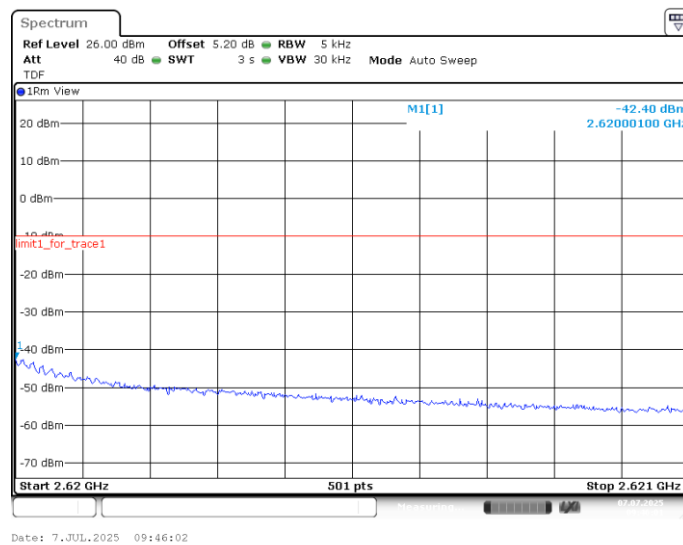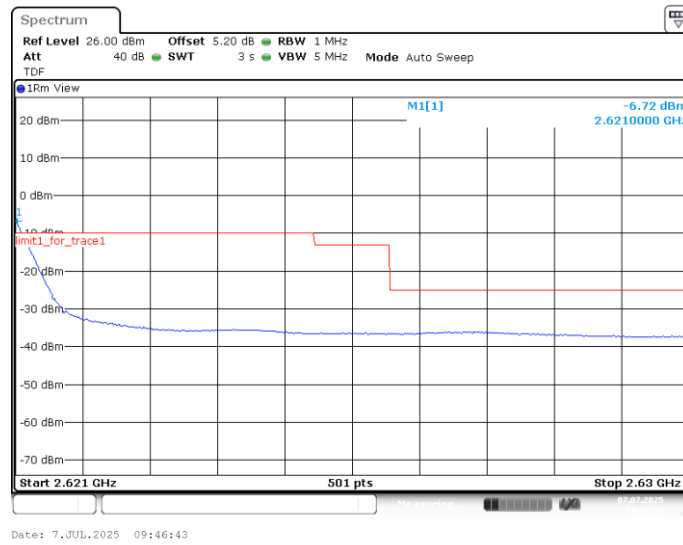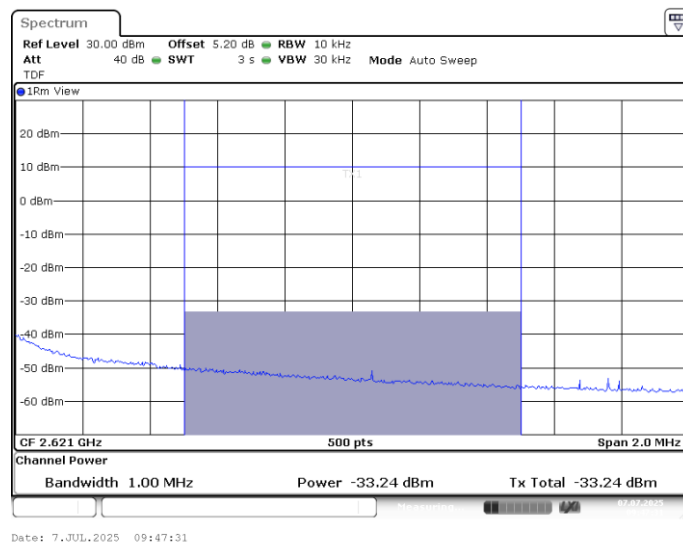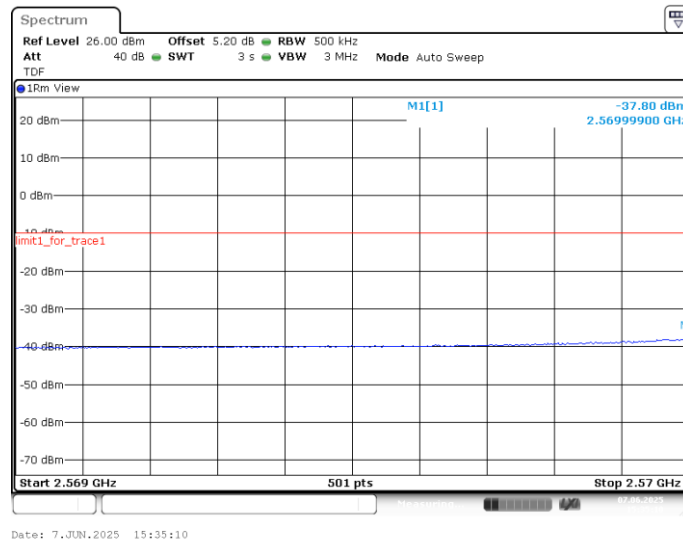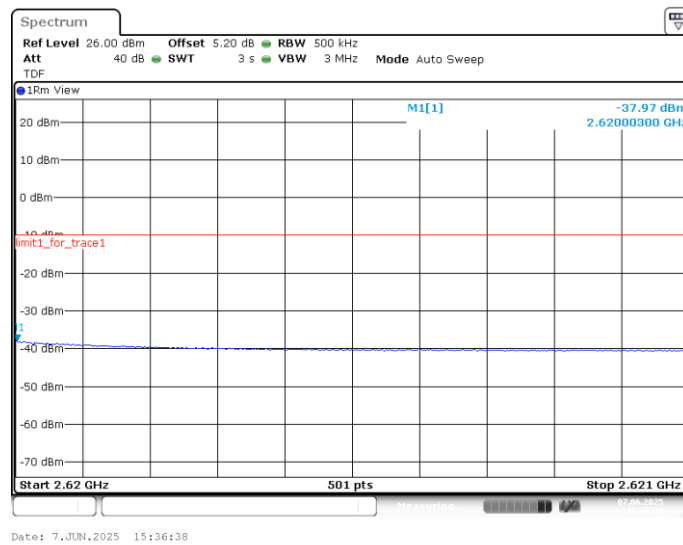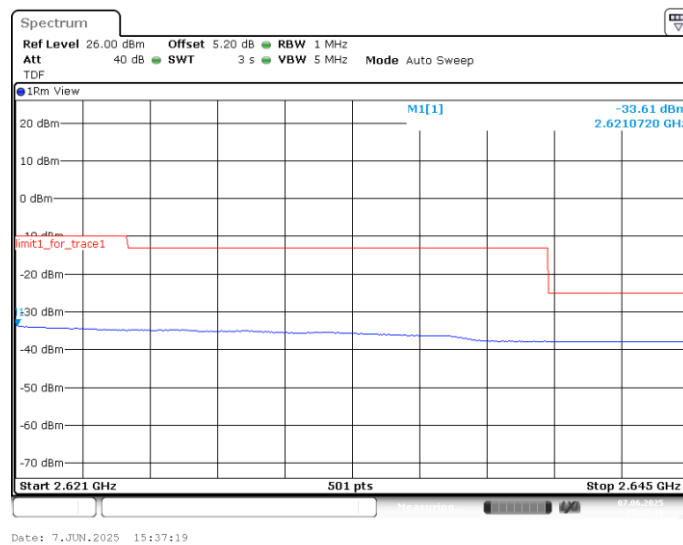
LTE band 41

OBW: 1RB-LOW_offset
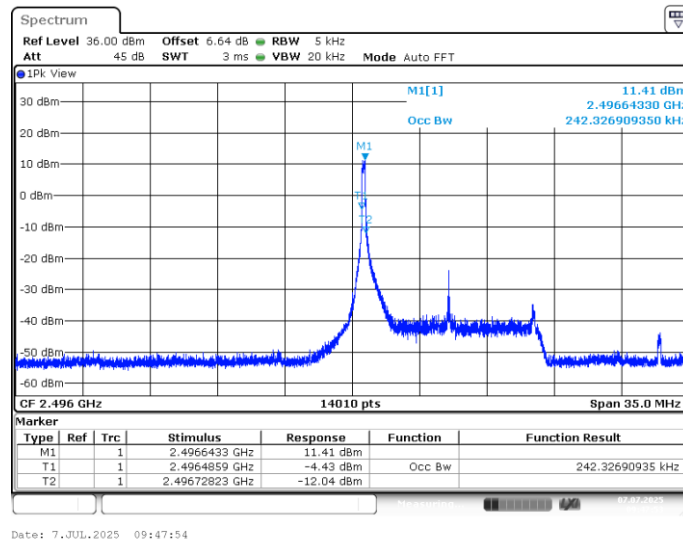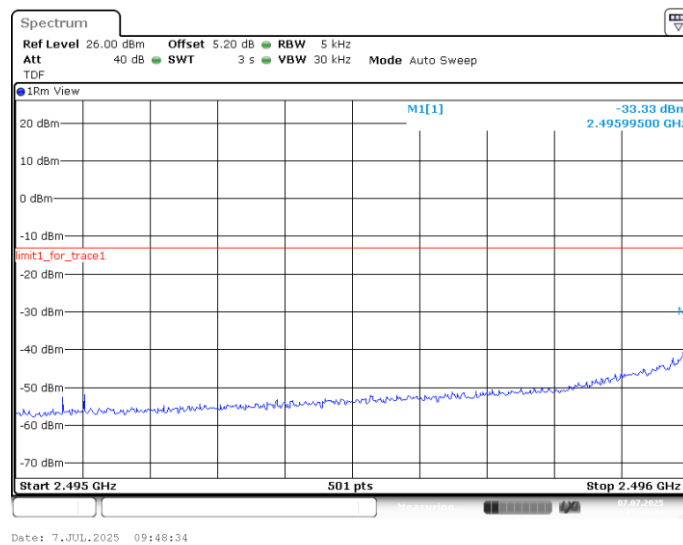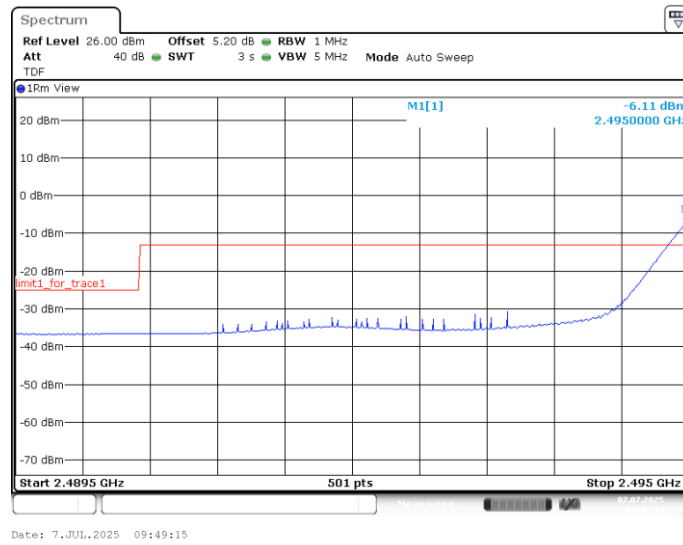
Date: 7.JUL.2025 09:47:54

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:48:34

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 09:49:15

Channel power

Date: 7.JUL.2025 09:50:03

OBW: 1RB-HIGH_offset

Date: 7.JUL.2025 09:50:24

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:51:04

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:51:45

Channel power

Date: 7.JUL.2025 09:52:33

LOW BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:38:07

LOW BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:38:47

HIGH BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:39:34

HIGH BAND EDGE BLOCK-20MHz-100%RB

Date: 7.JUN.2025 15:40:15
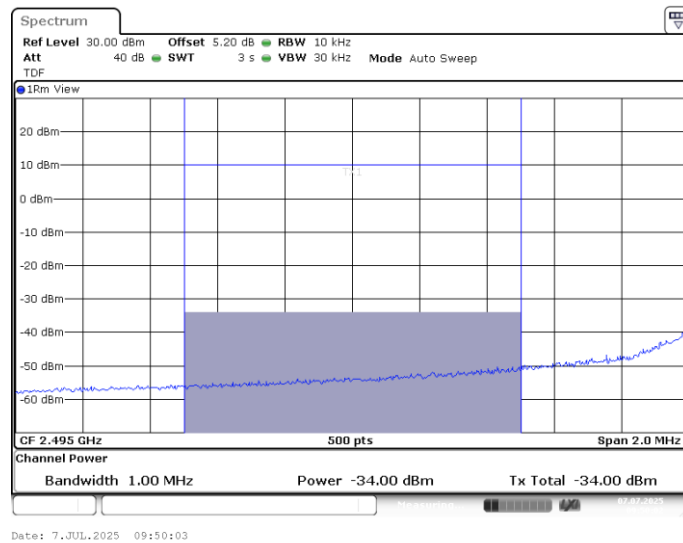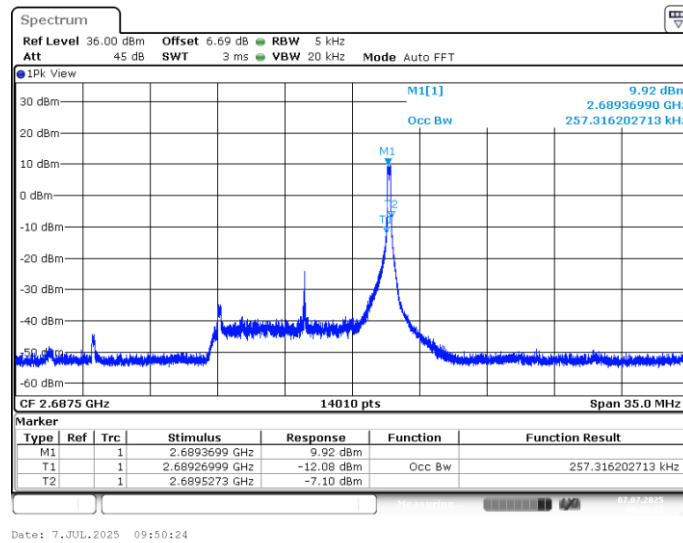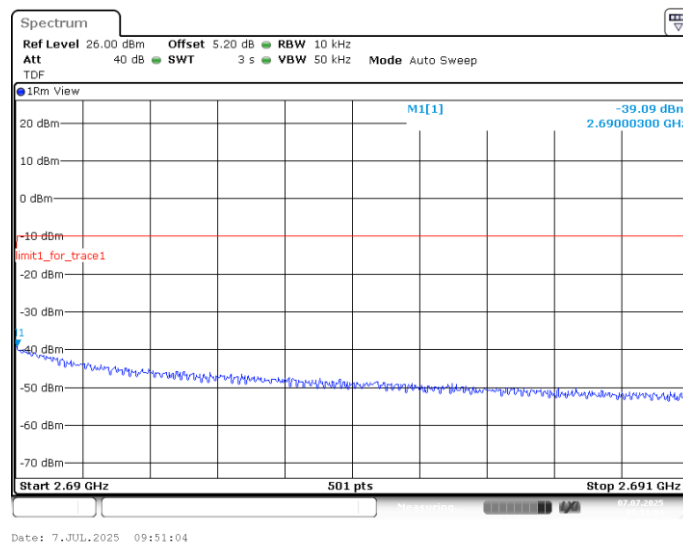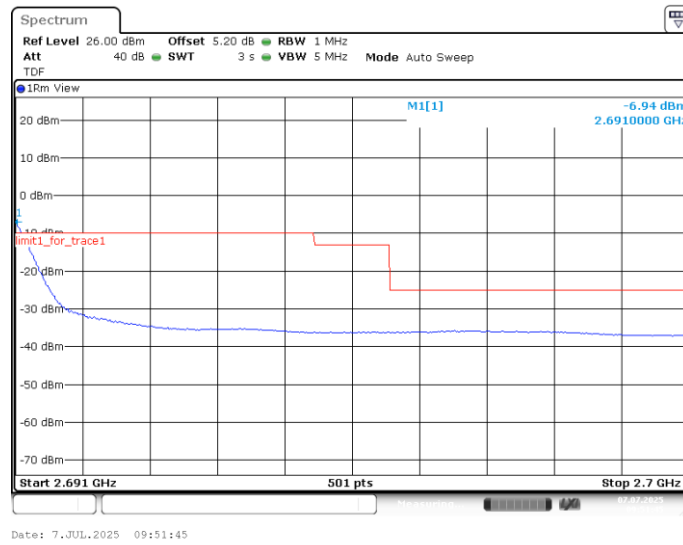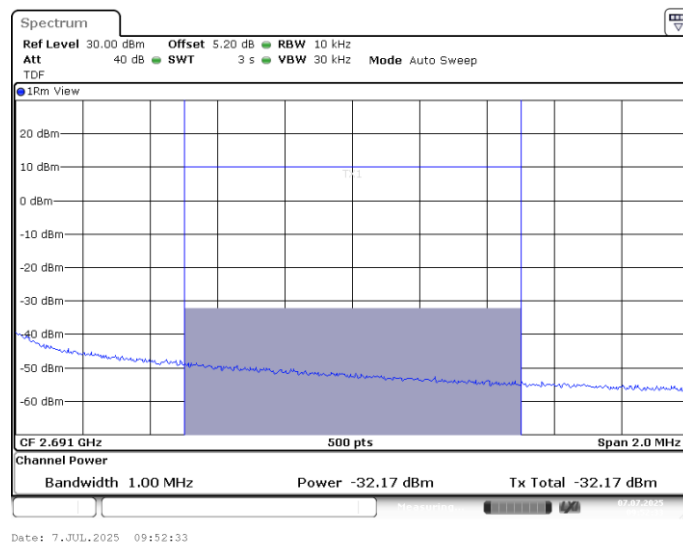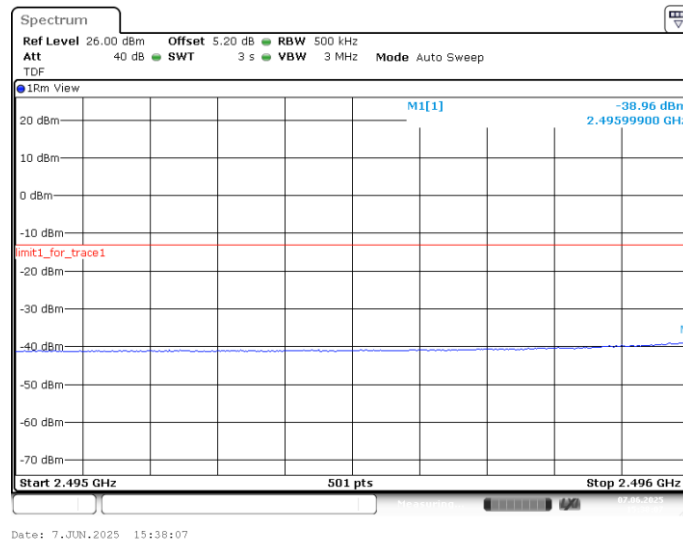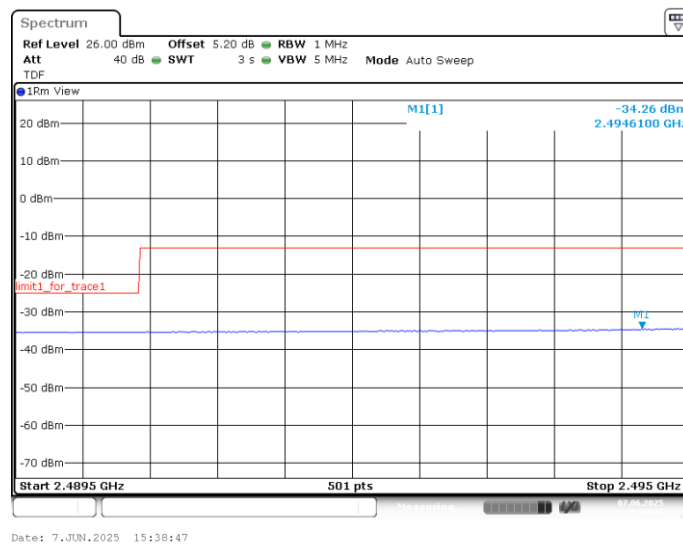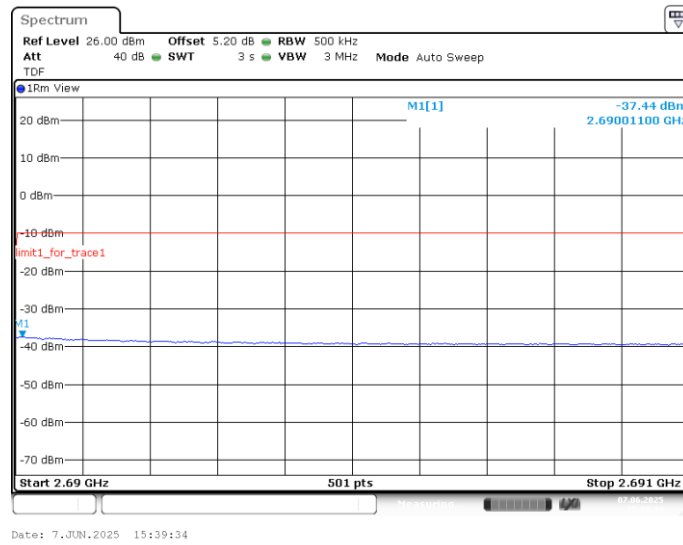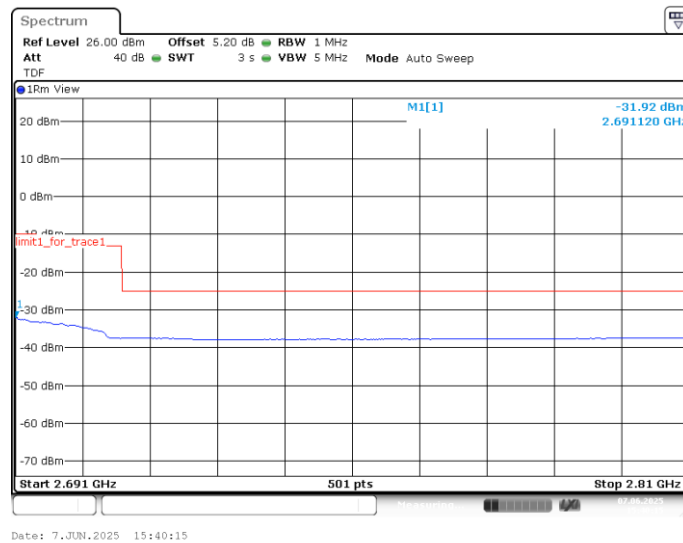
LTE band 66

OBW: 1RB-LOW_offset
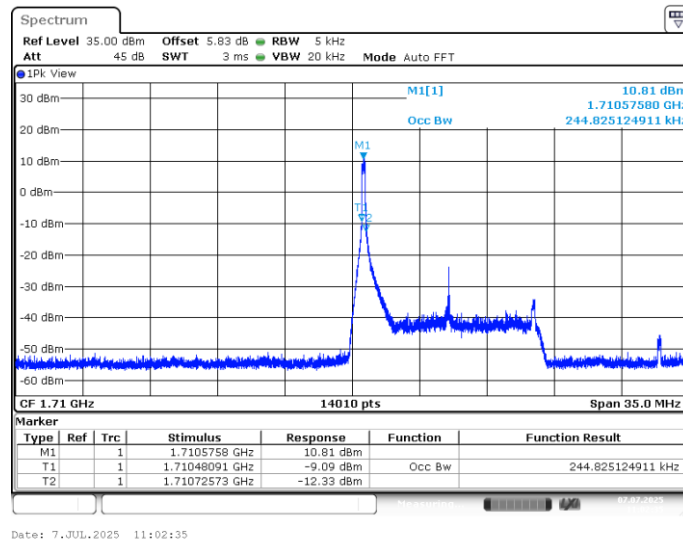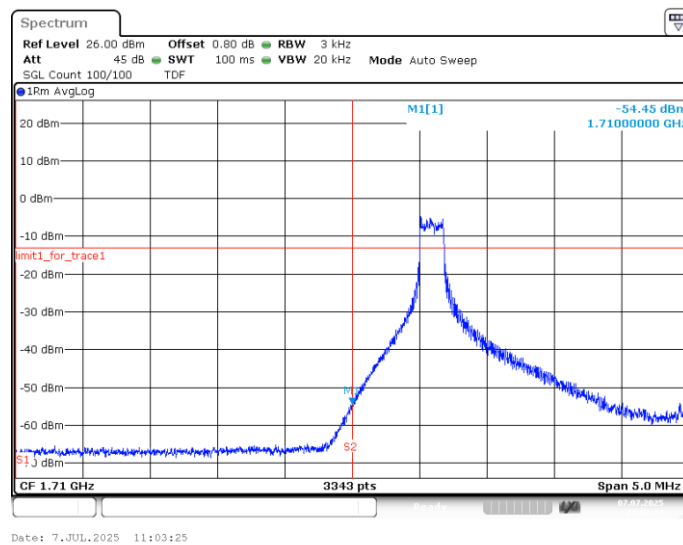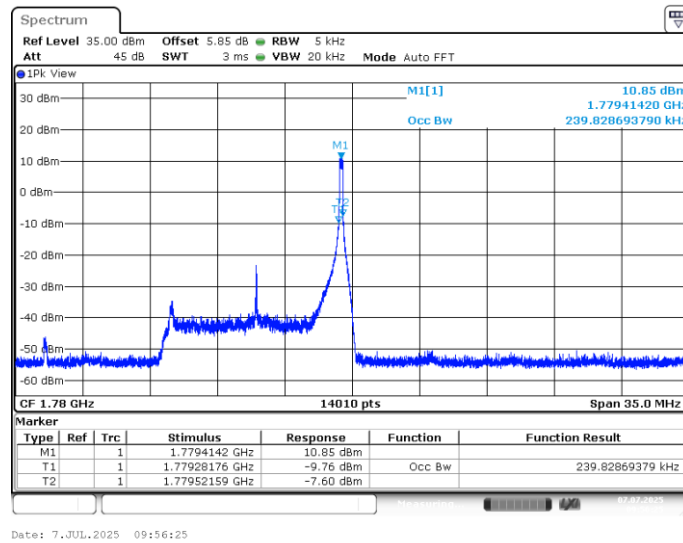
Date: 7.JUL.2025 11:02:35

LOW BAND EDGE BLOCK-1RB-LOW_offset

Date: 7.JUL.2025 11:03:25

OBW: 1RB-HIGH_offset

Date: 7.JUL.2025 09:56:25

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

Date: 7.JUL.2025 09:57:15

LOW BAND EDGE BLOCK-20MHz-100%RB

Date: 9.JUN.2025 09:06:35

HIGH BAND EDGE BLOCK-20MHz-100%RB

Date: 9.JUN.2025 09:07:30
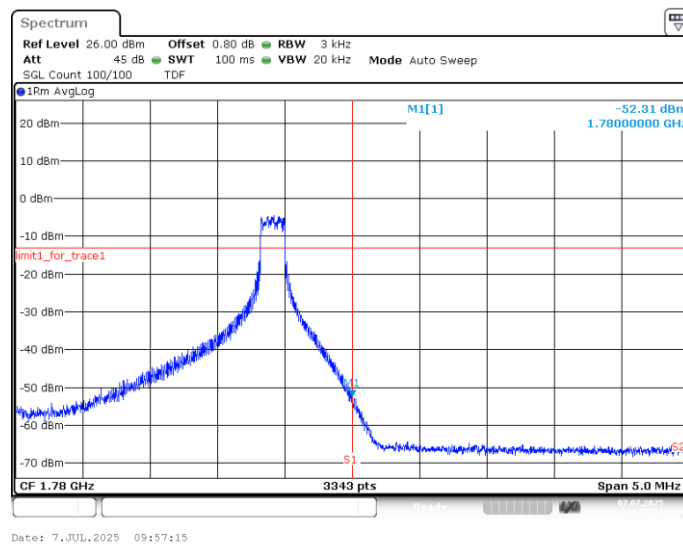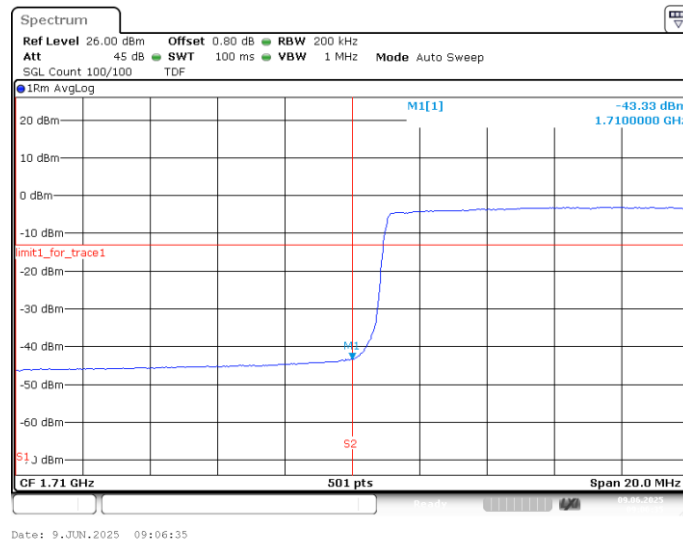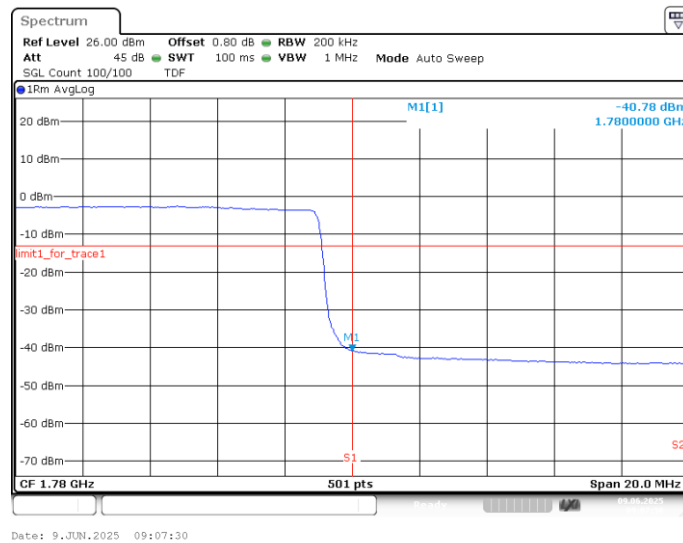
LTE CA band 7C

OBW: 1RB-low_offset
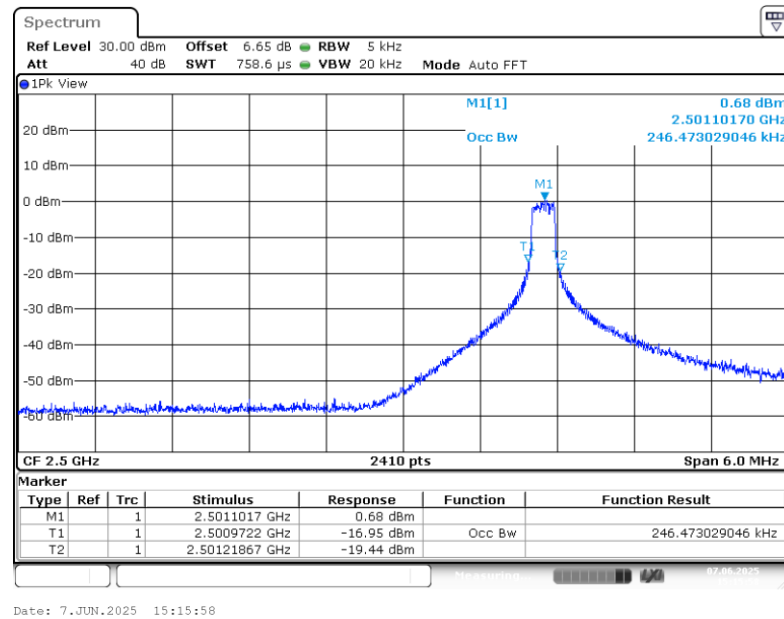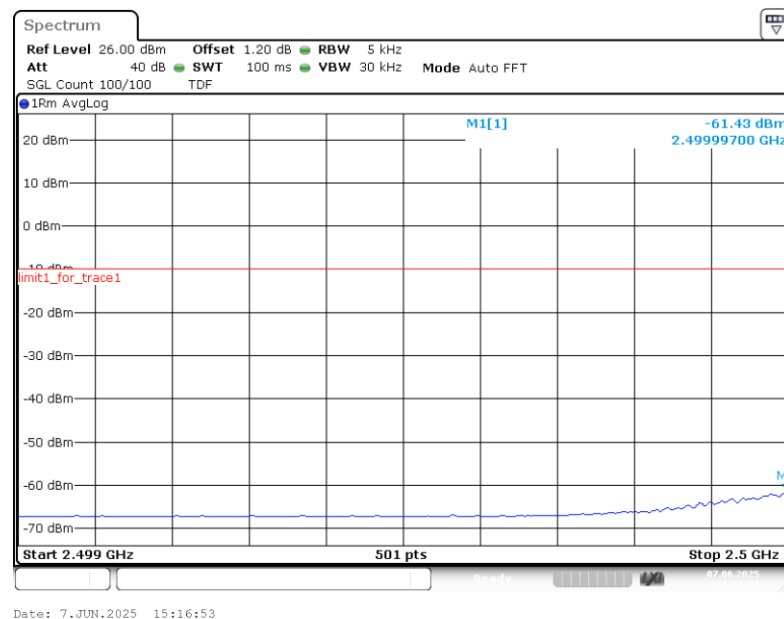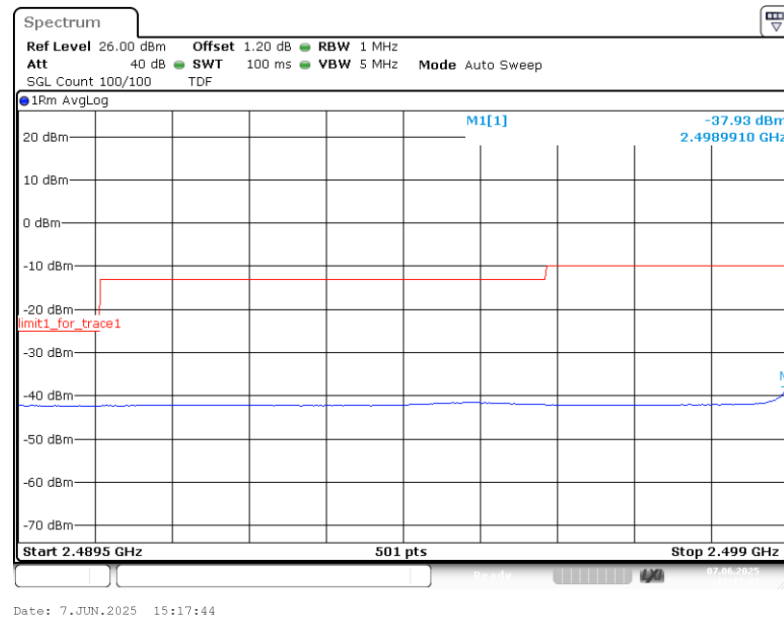
Date: 7.JUN.2025 15:15:58

LOW BAND EDGE BLOCK-1RB-low_offset

Date: 7.JUN.2025 15:16:53

LOW BAND EDGE BLOCK-1RB-low_offset

Date: 7.JUN.2025 15:17:44

OBW: 1RB-high_offset

Date: 7.JUN.2025 15:18:27

HIGH BAND EDGE BLOCK-1RB-high_offset

Date: 7.JUN.2025 15:19:22

HIGH BAND EDGE BLOCK-1RB-high_offset

Date: 7.JUN.2025 15:20:12

LOW BAND EDGE BLOCK-20MHz+20MHz-100%RB

Date: 7.JUN.2025 14:57:01

LOW BAND EDGE BLOCK-20MHz+20MHz-100%RB

Date: 7.JUN.2025 14:57:52

HIGH BAND EDGE BLOCK-20MHz+20MHz-100%RB

Date: 7.JUN.2025 15:10:31

HIGH BAND EDGE BLOCK-20MHz+20MHz-100%RB

Date: 7.JUN.2025 15:11:21
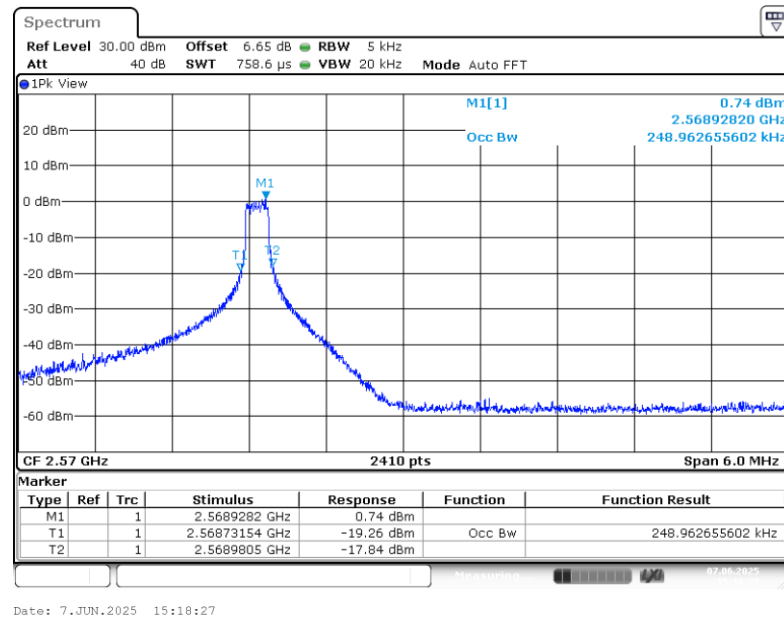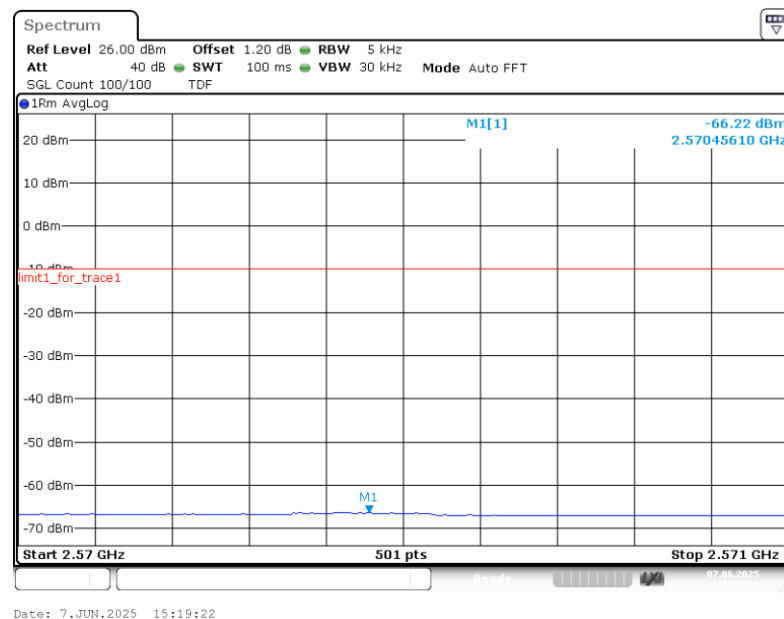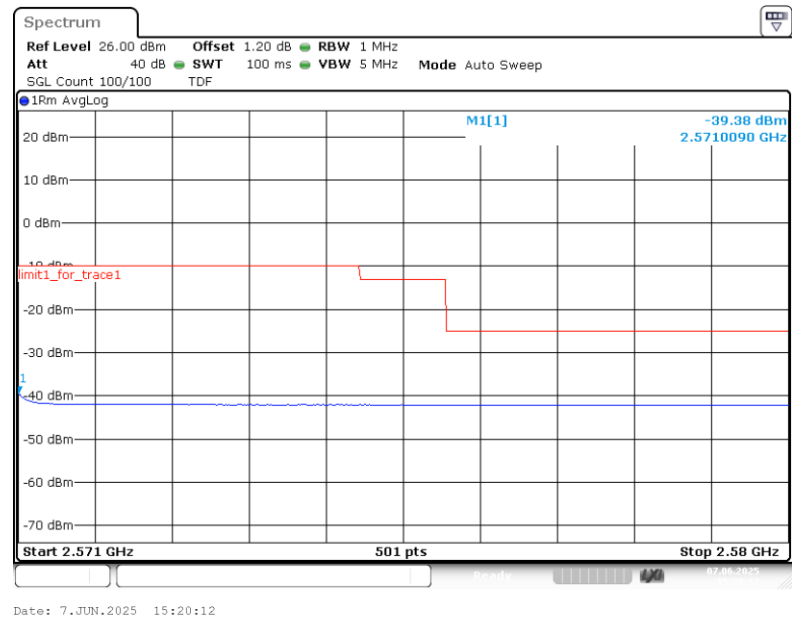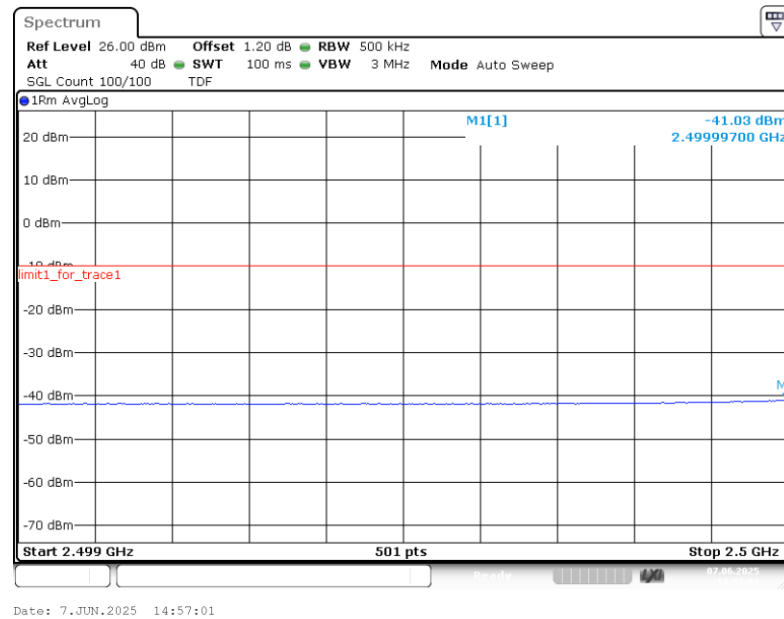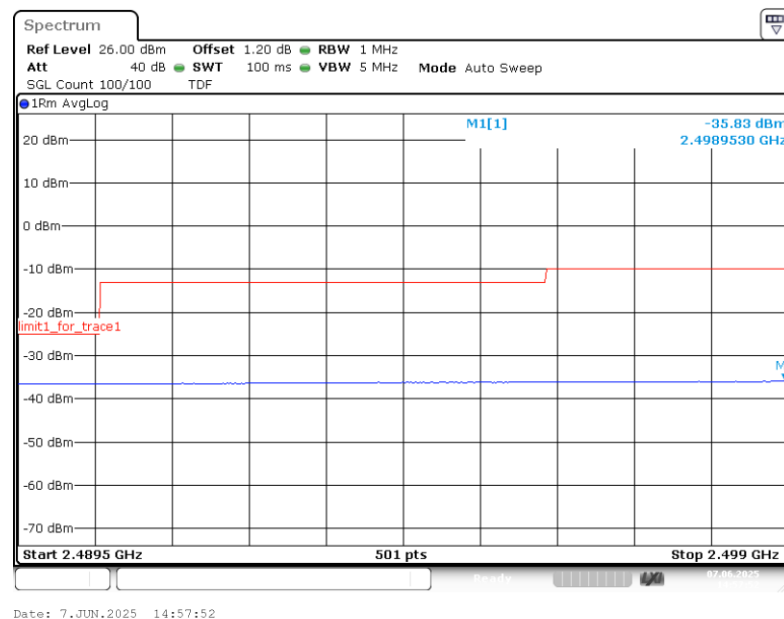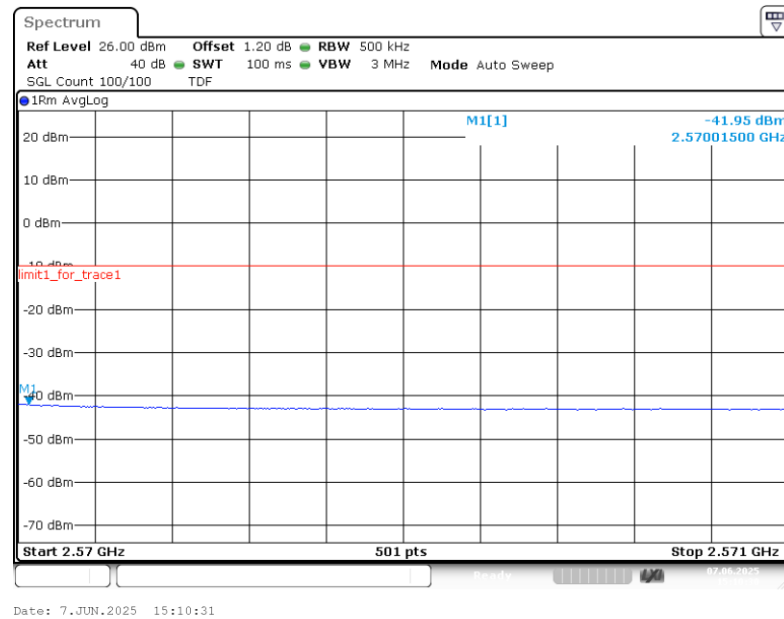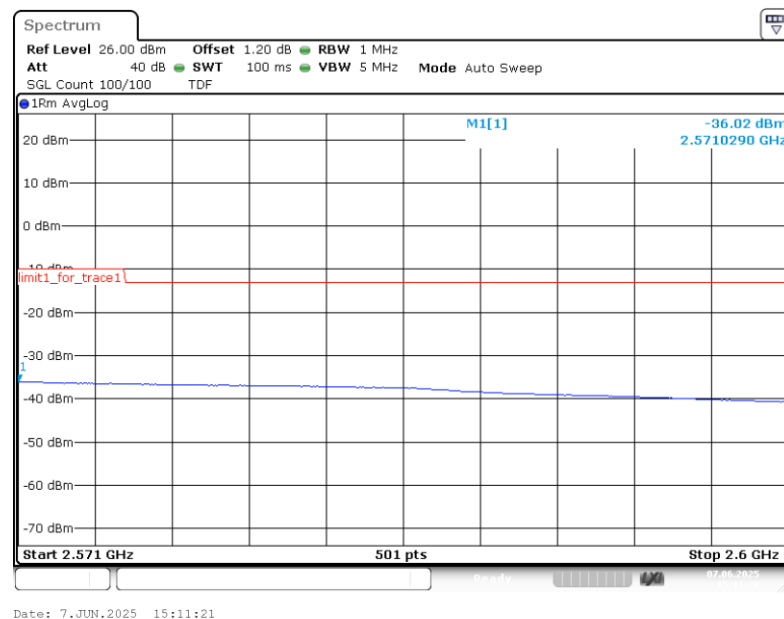
LTE CA band 38C

OBW: 1RB-low_offset
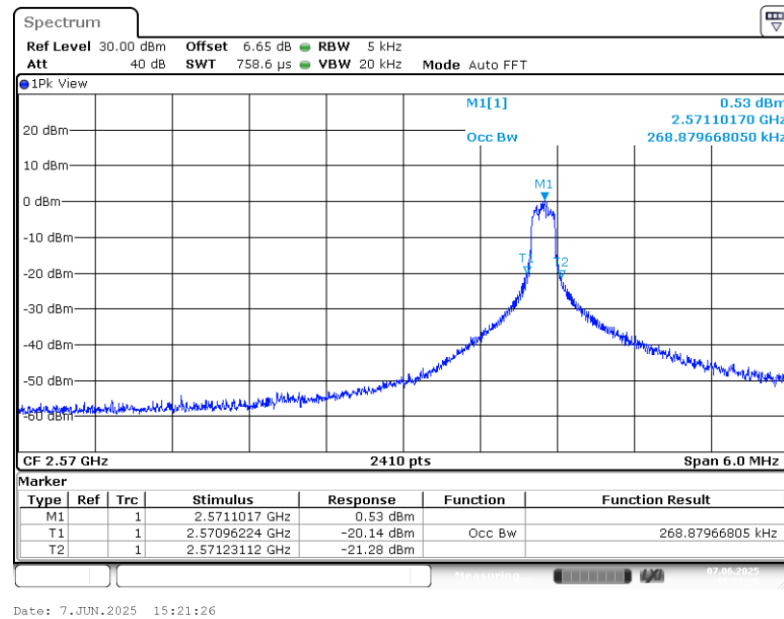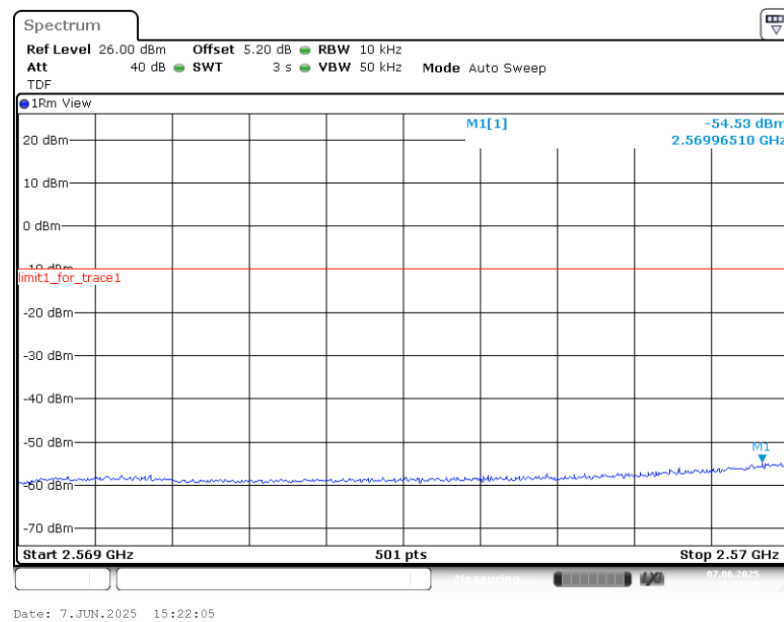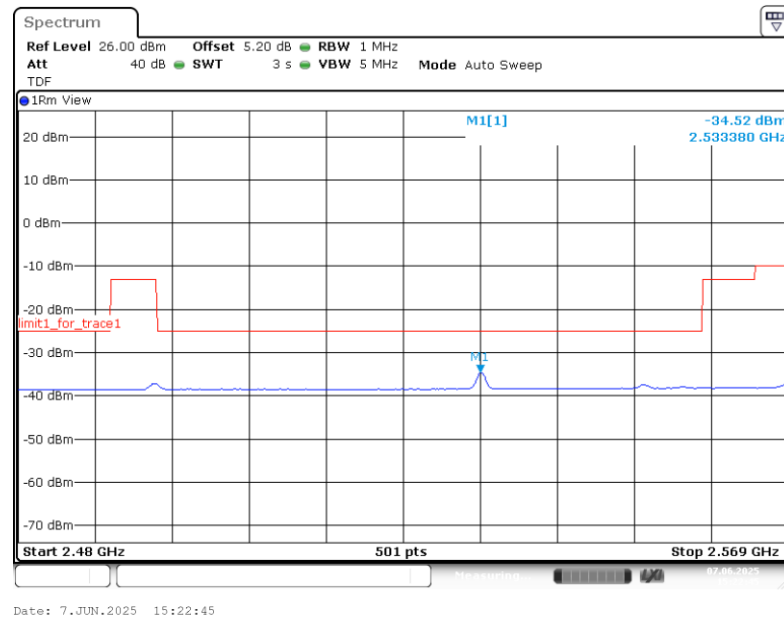
Date: 7.JUN.2025 15:21:26

LOW BAND EDGE BLOCK-1RB-low_offset

Date: 7.JUN.2025 15:22:05

LOW BAND EDGE BLOCK-1RB-low_offset

Date: 7.JUN.2025 15:22:45

OBW: 1RB-high_offset

Date: 7.JUN.2025 15:23:55

HIGH BAND EDGE BLOCK-1RB-high_offset

Date: 7.JUN.2025 15:24:34

HIGH BAND EDGE BLOCK-1RB-high_offset

Date: 7.JUN.2025 15:25:14

LOW BAND EDGE BLOCK-20MHz+20MHz-100%RB

Date: 7.JUN.2025 12:59:48

LOW BAND EDGE BLOCK-20MHz+20MHz-100%RB

Date: 7.JUN.2025 13:00:28

HIGH BAND EDGE BLOCK-20MHz+20MHz-100%RB

Date: 7.JUN.2025 13:01:35

HIGH BAND EDGE BLOCK-20MHz+20MHz-100%RB

Date: 7.JUN.2025 13:02:15
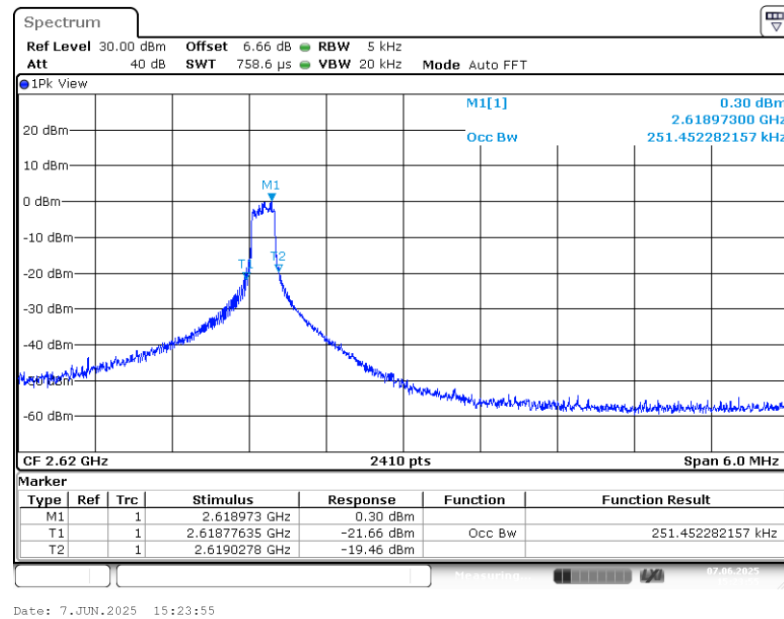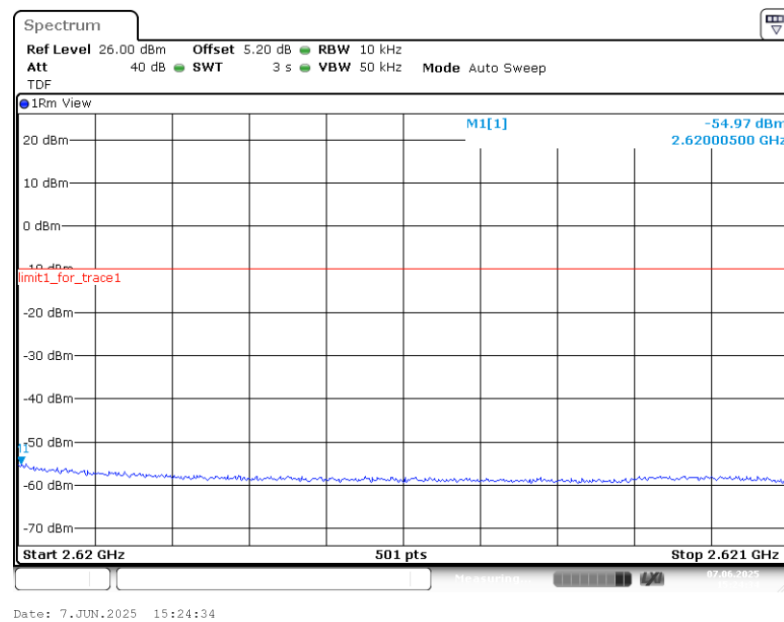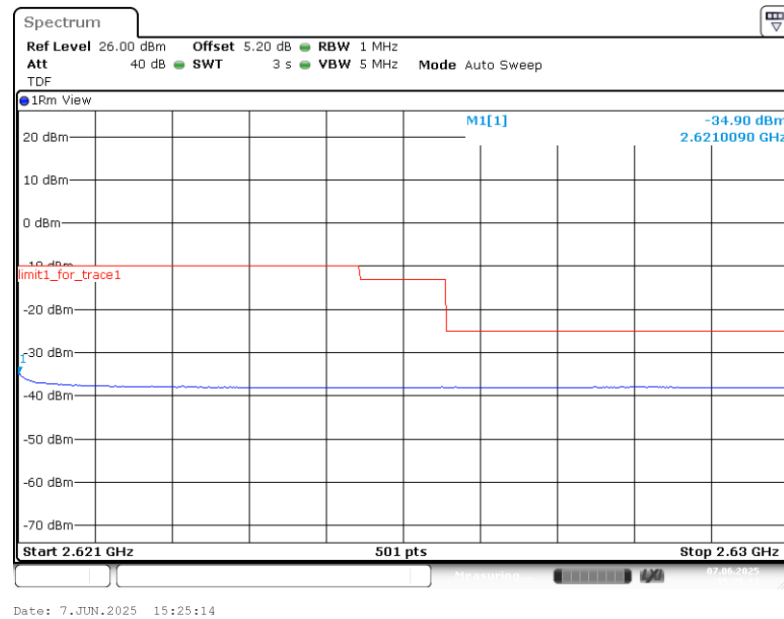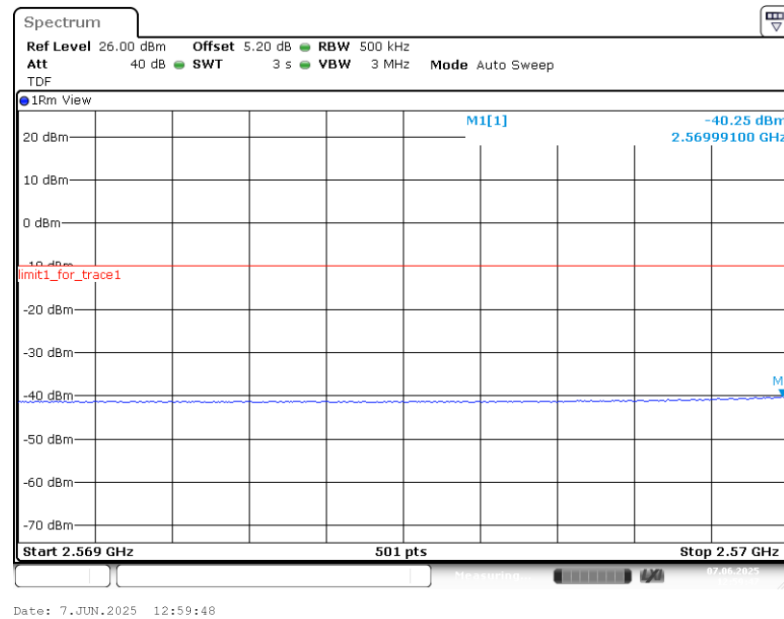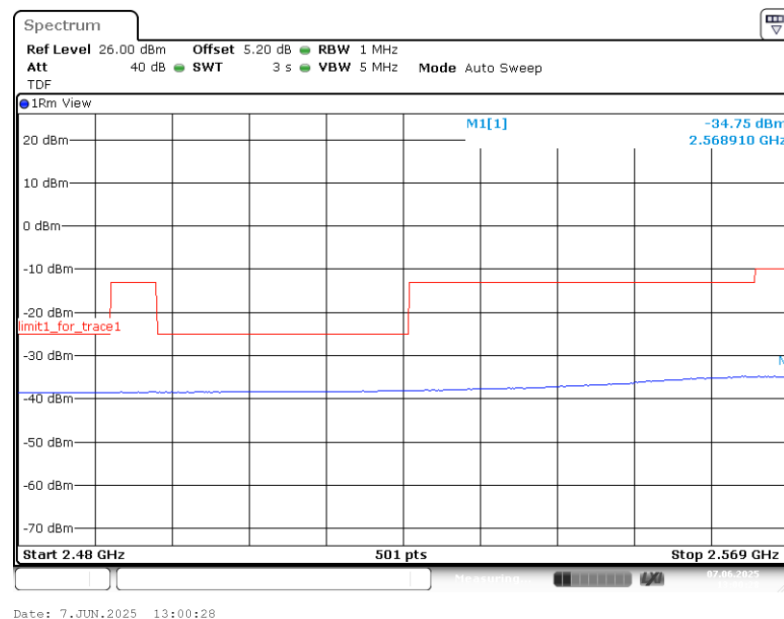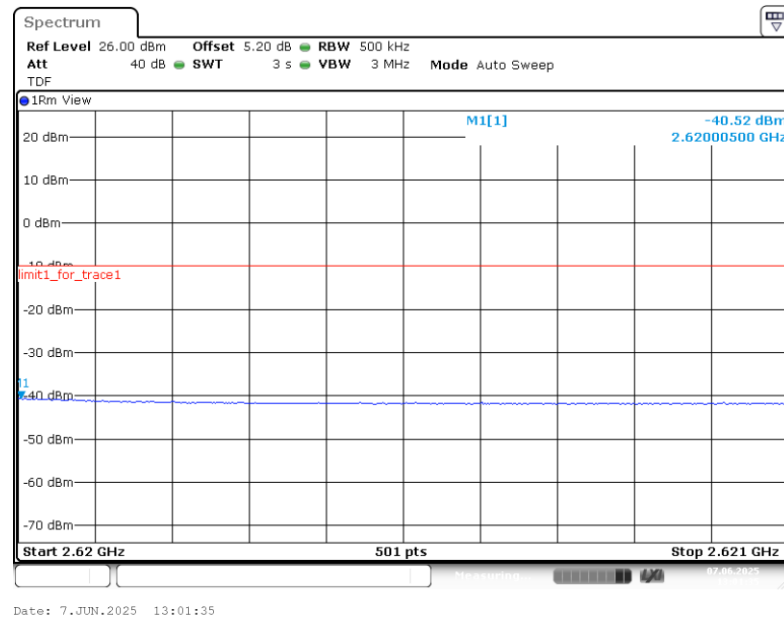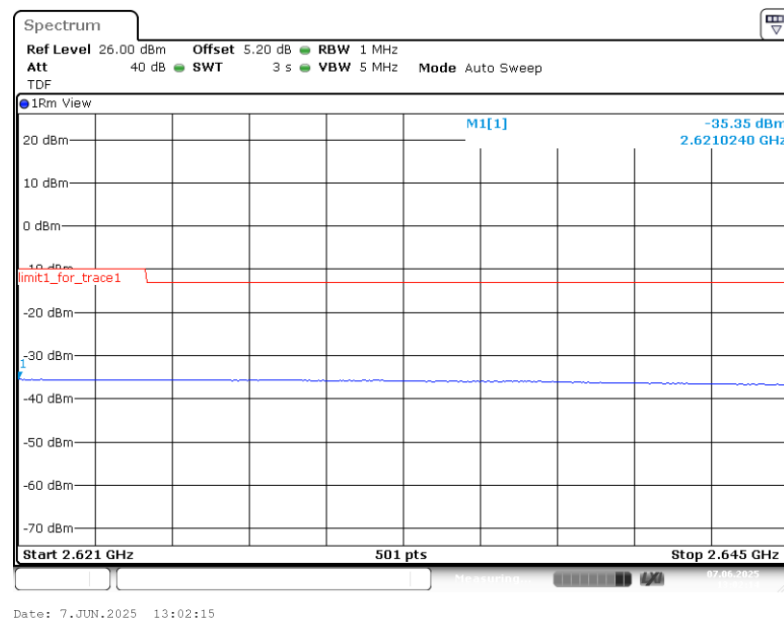
A.7 Conducted Spurious Emission

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 $2 \times$ 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 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(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 $116 Log_{10}(f/6.1)$ 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 + 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.
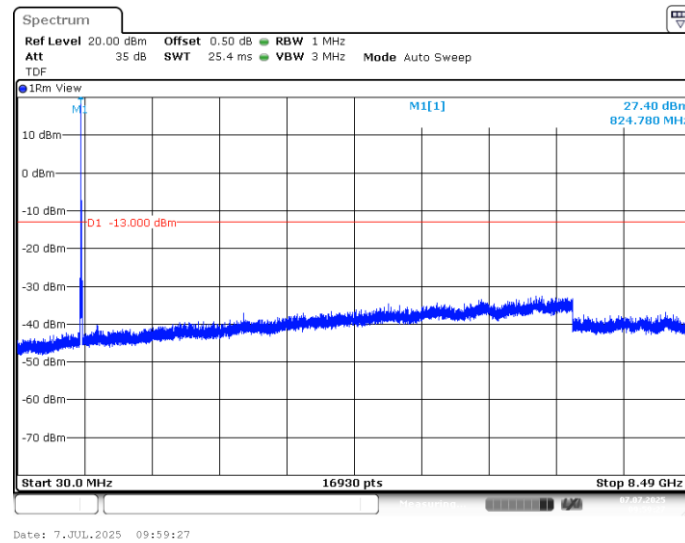
A.7.3 Measurement result
LTE band 2
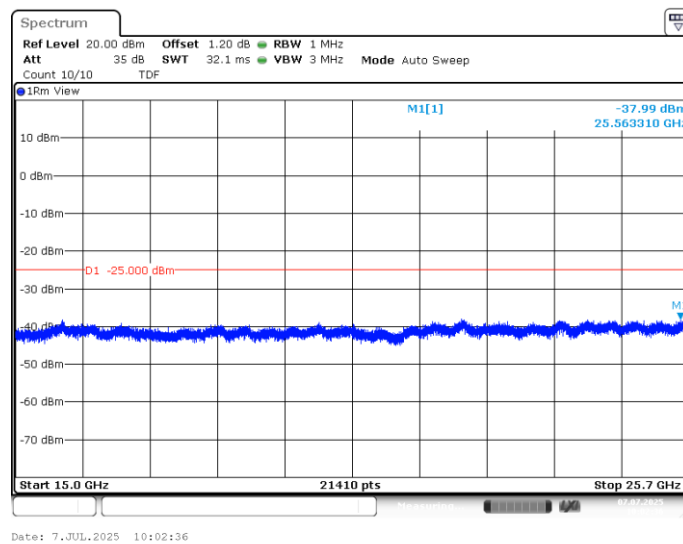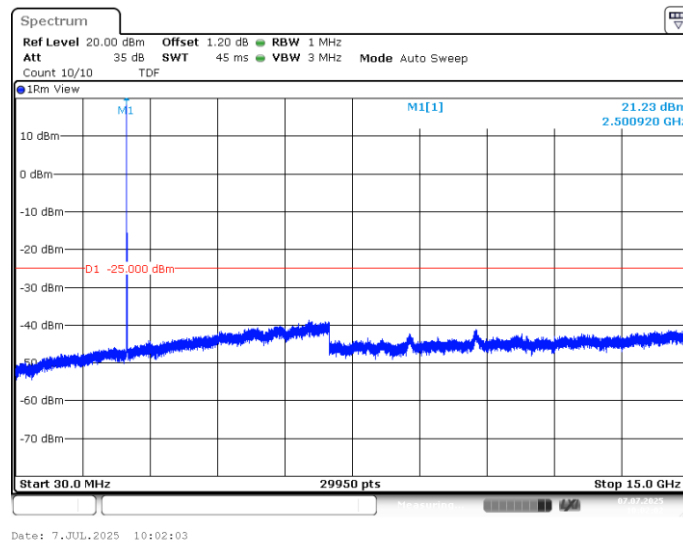## NOTE: peak above the limit line is the carrier frequency.

Date: 7.JUL.2025 11:05:38

Date: 7.JUL.2025 11:06:23
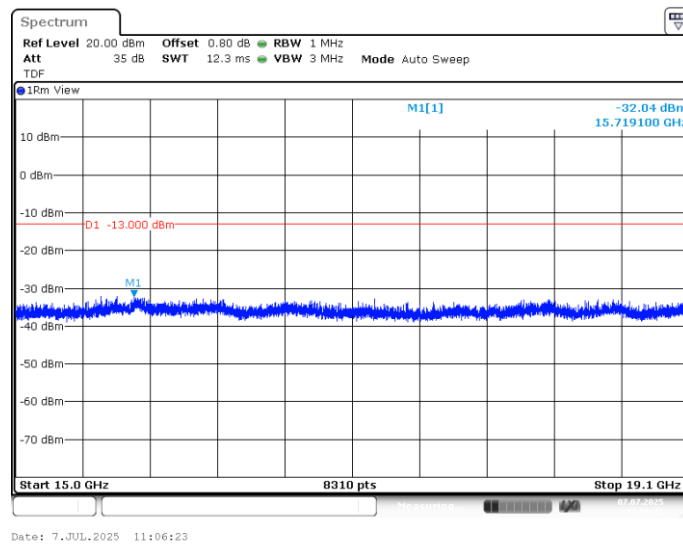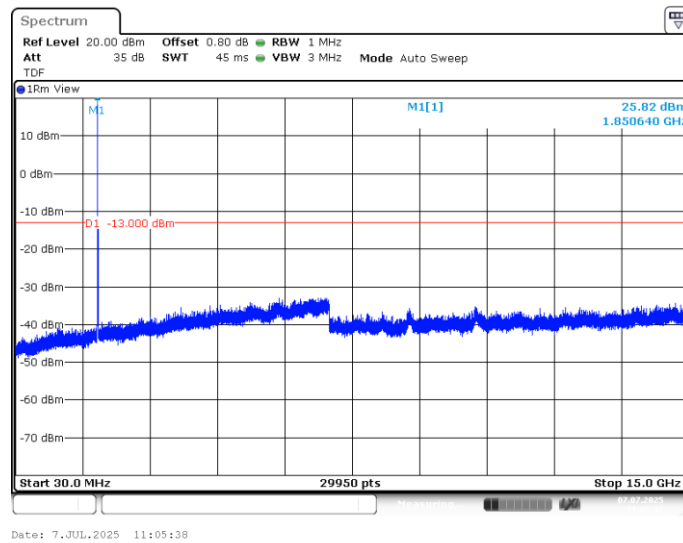
LTE band 5
NOTE: peak above the limit line is the carrier frequency.

Date: 7.JUL.2025 09:59:27

LTE band 7

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

Date: 7.JUL.2025 10:02:03

Date: 7.JUL.2025 10:02:36

LTE band 12

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

Date: 7.JUL.2025   10:03:39
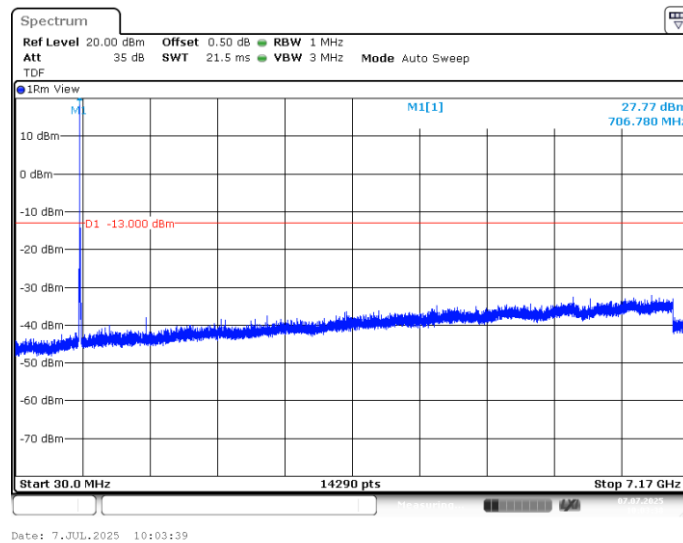
LTE band 26_Part22

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

Date: 7.JUL.2025 10:06:04
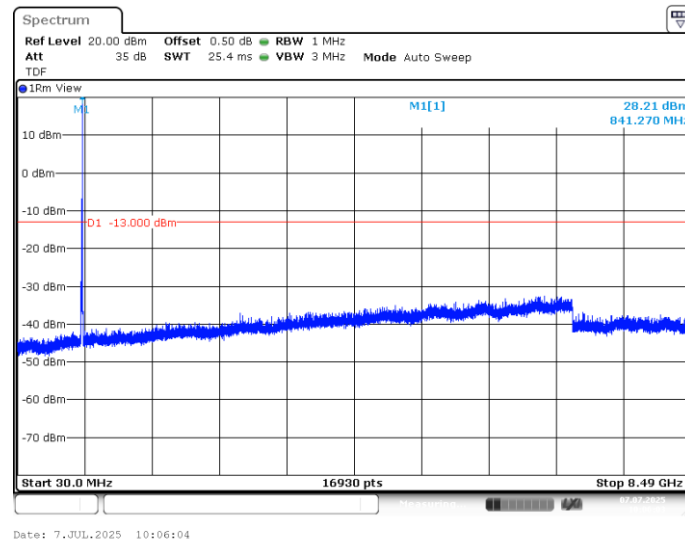
LTE band 26_Part90

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

Date: 7.JUL.2025 10:06:49