

Up	815.99375	26.4	9.0	3.5	5.0	-0.5dB Below
Up	815.99375	26.4	9.0	3.5	5.0	+3.0dB above
4. Analog FM						
Up	806.0125	28.0	9.0	5.0	5.0	-0.5dB Below
Up	806.0125	28.0	9.0	5.0	5.0	+3.0dB above
Up	811.0	28.0	9.0	5.0	5.0	-0.5dB Below
Up	811.0	28.0	9.0	5.0	5.0	+3.0dB above
Up	815.9875	26.6	9.0	3.6	5.0	-0.5dB Below
Up	815.9875	26.6	9.0	3.6	5.0	+3.0dB above
5. Tetra						
Up	806.0125	28.0	9.0	5.0	5.0	-0.5dB Below
Up	806.0125	28.0	9.0	5.0	5.0	+3.0dB above
Up	811.0	28.0	9.0	5.0	5.0	-0.5dB Below
Up	811.0	28.0	9.0	5.0	5.0	+3.0dB above
Up	815.9875	26.6	9.0	3.6	5.0	-0.5dB Below
Up	815.9875	26.6	9.0	3.6	5.0	+3.0dB above

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11.17. Noise figure

11.17.1. Test results

Test Date (yy-mm-dd): 2023-05-23

Normal condition: Temp:26.7℃, Humid: 53%, Atmospheric Pressure:101kpa

Supply Voltage: AC 110V, 50Hz

11.17.1.1. 700MHz Band

Frequency(MHz)	Max. Limit (dB)	Noise figure data (dB)	Margin (dB)	Result
Downlink: 769~775	9.0	5.82	3.18	PASS
Uplink: 799~805	9.0	3.84	5.16	PASS
NOTE: Margin= specification limit - Noise figure data.				

11.17.1.2. 800MHz Band

Frequency(MHz)	Max. Limit (dB)	Noise figure data (dB)	Margin (dB)	Result
Downlink: 851~861	9.0	5.37	3.63	PASS
Uplink: 806~816	9.0	3.91	5.09	PASS
NOTE: Margin= specification limit - Noise figure data.				

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11.17.2. Test screenshot

11.17.2.1. 700MHz Band



Downlink: 769MHz~775MHz



Uplink: 799MHz~805MHz

11.17.2.2. 800MHz Band



Downlink: 851MHz~861MHz



Uplink: 806MHz~816MHz

11.18. Out-of-band/out-of-block emissions

11.18.1. Test results

Test Date (yy-mm-dd): 2023-05-19

Normal condition: Temp: 26.9°C, Humid: 55%, Atmospheric Pressure:101kpa

Supply Voltage: AC 110V, 50Hz

11.18.1.1. 700MHz Band

11.18.1.1.1. Downlink

Test status	Test frequency	Intermodulaiton product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(3) Frequency range: 769MHz~775MHz					
(1.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:769.00625MHz f2:769.01875MHz	-13.0	-23.3	10.3	PASS
	Mid frequency: f1:772.0MHz f2:772.0125MHz	-13.0	-20.8	7.8	PASS
	High frequency: f1:774.98125MHz f2:774.99375MHz	-13.0	-19.8	6.8	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:769.00625MHz f2:769.01875MHz	-13.0	-22.8	9.8	PASS
	Mid frequency: f1:772.0MHz f2:772.0125MHz	-13.0	-20.9	7.9	PASS
	High frequency: f1:774.98125MHz f2:774.99375MHz	-13.0	-20.2	7.2	PASS
(1.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:769.0125MHz f2:769.0375MHz	-13.0	-22.1	9.1	PASS
	Mid frequency: f1:772.0MHz f2:772.025MHz	-13.0	-21.3	8.3	PASS
	High frequency: f1:774.9625MHz f2:774.9875MHz	-13.0	-22.9	9.9	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:769.0125MHz f2:769.0375MHz	-13.0	-22.1	9.1	PASS
	Mid frequency: f1:772.0MHz f2:772.025MHz	-13.0	-21.3	8.3	PASS
	High frequency: f1:774.9625MHz f2:774.9875MHz	-13.0	-23.2	10.2	PASS
NOTE 1:Intermodulation products select the worst data record. NOTE 2: Margin= specification limit -Maximum mark level.					

11.18.1.1.2. Uplink

Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(4) Frequency range: 799MHz~805MHz					
(2.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:799.00625MHz f2:799.01875MHz	-13.0	-21.6	8.6	PASS
	Mid frequency: f1:802.0MHz f2:802.0125MHz	-13.0	-20.4	7.4	PASS
	High frequency: f1:804.98125MHz f2:804.99375MHz	-13.0	-20.4	7.4	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:799.00625MHz f2:799.01875MHz	-13.0	-21.5	8.5	PASS
	Mid frequency: f1:802.0MHz f2:802.0125MHz	-13.0	-20.3	7.3	PASS
	High frequency: f1:804.98125MHz f2:804.99375MHz	-13.0	-20.3	7.3	PASS
(2.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:799.0125MHz f2:799.0375MHz	-13.0	-21.6	8.6	PASS
	Mid frequency: f1:802.0MHz f2:802.025MHz	-13.0	-20.4	7.4	PASS
	High frequency: f1:804.9625MHz f2:804.9875MHz	-13.0	-20.4	7.4	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:799.0125MHz f2:799.0375MHz	-13.0	-21.5	8.5	PASS
	Mid frequency: f1:802.0MHz f2:802.025MHz	-13.0	-20.3	7.3	PASS
	High frequency: f1:804.9625MHz f2:804.9875MHz	-13.0	-20.3	7.3	PASS
NOTE 1: Intermodulation products select the worst data record. NOTE 2: Margin= specification limit -Maximum mark level.					

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11.18.1.2. 800MHz Band

11.18.1.2.1. Downlink

Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(5) Frequency range: 851MHz~861MHz					
(3.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:851.00625MHz f2:851.01875MHz	-13.0	-25.8	12.8	PASS
	Mid frequency: f1:856.0MHz f2:856.0125MHz	-13.0	-23.7	10.7	PASS
	High frequency: f1:860.98125MHz f2:860.99375MHz	-13.0	-23.1	10.1	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:851.00625MHz f2:851.01875MHz	-13.0	-25.7	12.7	PASS
	Mid frequency: f1:856.0MHz f2:856.0125MHz	-13.0	-23.7	10.7	PASS
	High frequency: f1:860.98125MHz f2:860.99375MHz	-13.0	-23.3	10.3	PASS
(3.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:851.0125MHz f2:851.0375MHz	-13.0	-25.8	12.8	PASS
	Mid frequency: f1:856.0MHz f2:856.025MHz	-13.0	-23.9	10.9	PASS
	High frequency: f1:860.9625MHz f2:860.9875MHz	-13.0	-23.2	10.2	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:851.0125MHz f2:851.0375MHz	-13.0	-25.9	12.9	PASS
	Mid frequency: f1:856.0MHz f2:856.025MHz	-13.0	-23.1	10.1	PASS
	High frequency: f1:860.9625MHz f2:860.9875MHz	-13.0	-23.3	10.3	PASS
NOTE 1: Intermodulation products select the worst data record. NOTE 2: Margin= specification limit -Maximum mark level.					

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11.18.1.2.2. Uplink

Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(6) Frequency range: 806MHz~816MHz					
(4.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:806.00625MHz f2:806.01875MHz	-13.0	-19.8	6.8	PASS
	Mid frequency: f1:811.0MHz f2:811.0125MHz	-13.0	-20.2	7.2	PASS
	High frequency: f1:815.98125MHz f2:815.99375MHz	-13.0	-22.1	9.1	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:806.00625MHz f2:806.01875MHz	-13.0	-19.8	6.8	PASS
	Mid frequency: f1:811.0MHz f2:811.0125MHz	-13.0	-20.0	7.0	PASS
	High frequency: f1:815.98125MHz f2:815.99375MHz	-13.0	-22.0	9.0	PASS
(4.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:806.0125MHz f2:806.0375MHz	-13.0	-19.9	6.9	PASS
	Mid frequency: f1:811.0MHz f2:811.025MHz	-13.0	-20.2	7.2	PASS
	High frequency: f1:815.9625MHz f2:815.9875MHz	-13.0	-22.2	9.2	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:806.0125MHz f2:806.0375MHz	-13.0	-19.9	6.9	PASS
	Mid frequency: f1:811.0MHz f2:811.025MHz	-13.0	-20.2	7.2	PASS
	High frequency: f1:815.9625MHz f2:815.9875MHz	-13.0	-22.1	9.1	PASS
NOTE 1: Intermodulation products select the worst data record. NOTE 2: Margin= specification limit -Maximum mark level.					

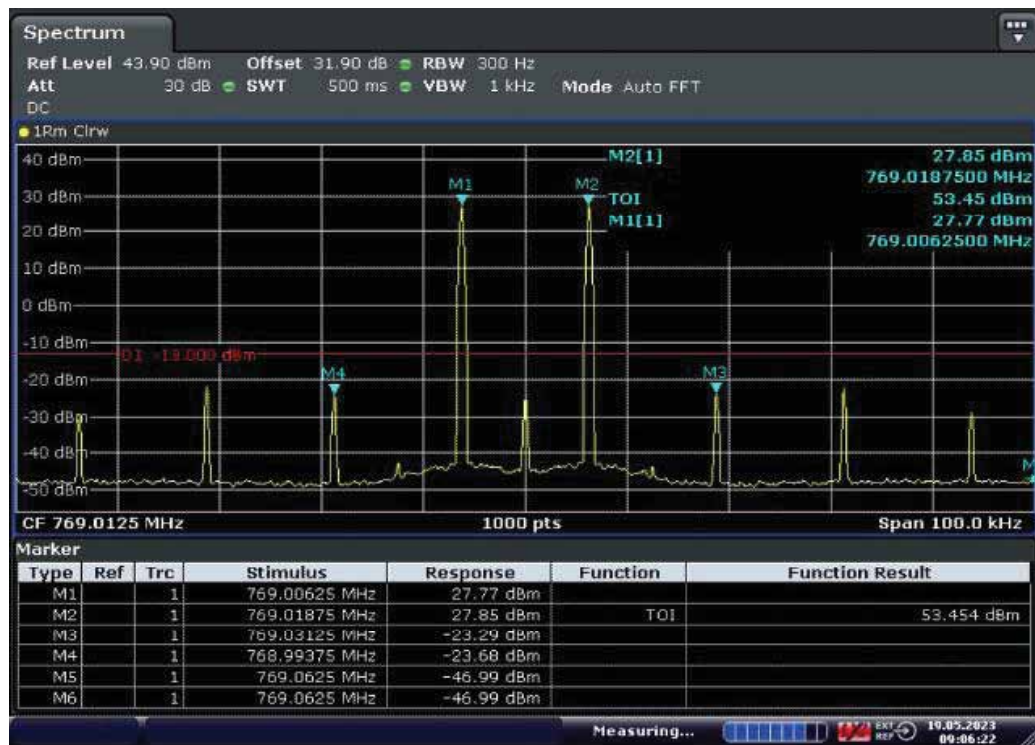
----- The following blanks -----

1.1.1. Test screenshot

11.18.1.3. 700MHz Band

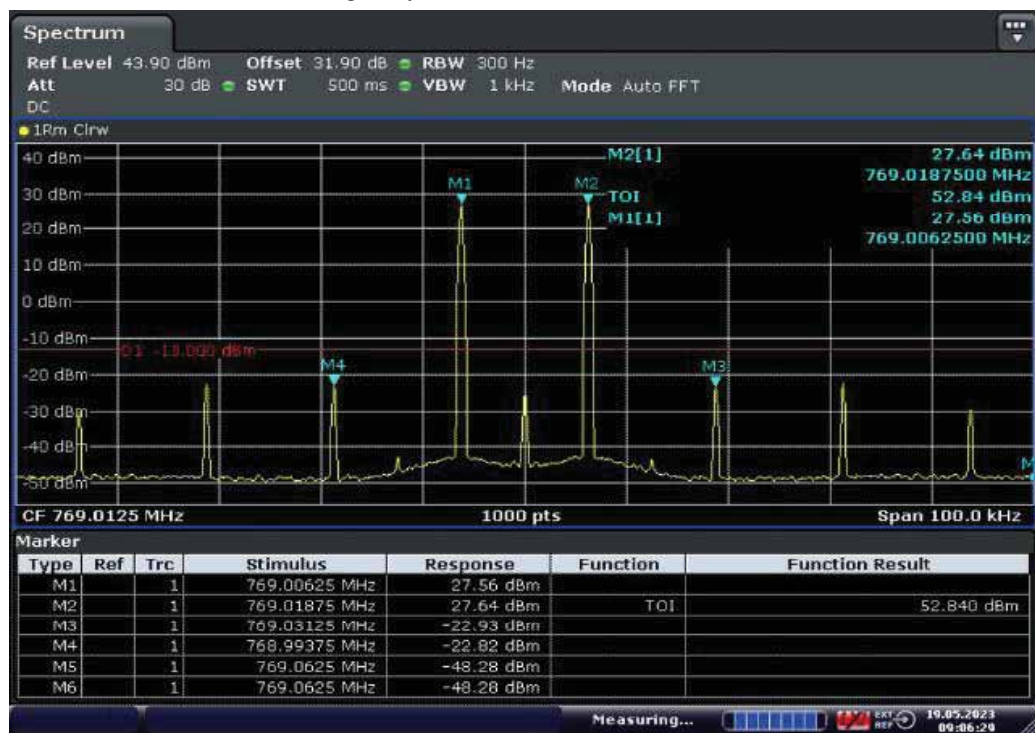
11.18.1.3.1. Channel bandwidth 12.5kHz

11.18.1.3.1.1. Downlink



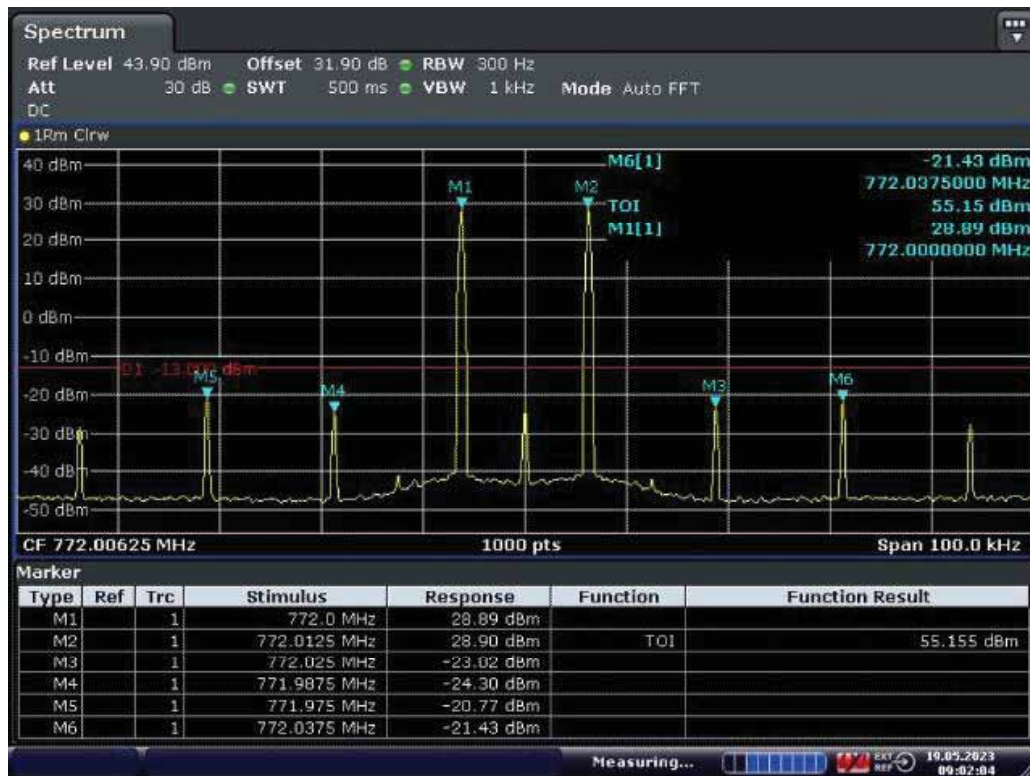
Date: 19.MAY.2023 09:06:22

Low Frequency and with the ALC threshold level



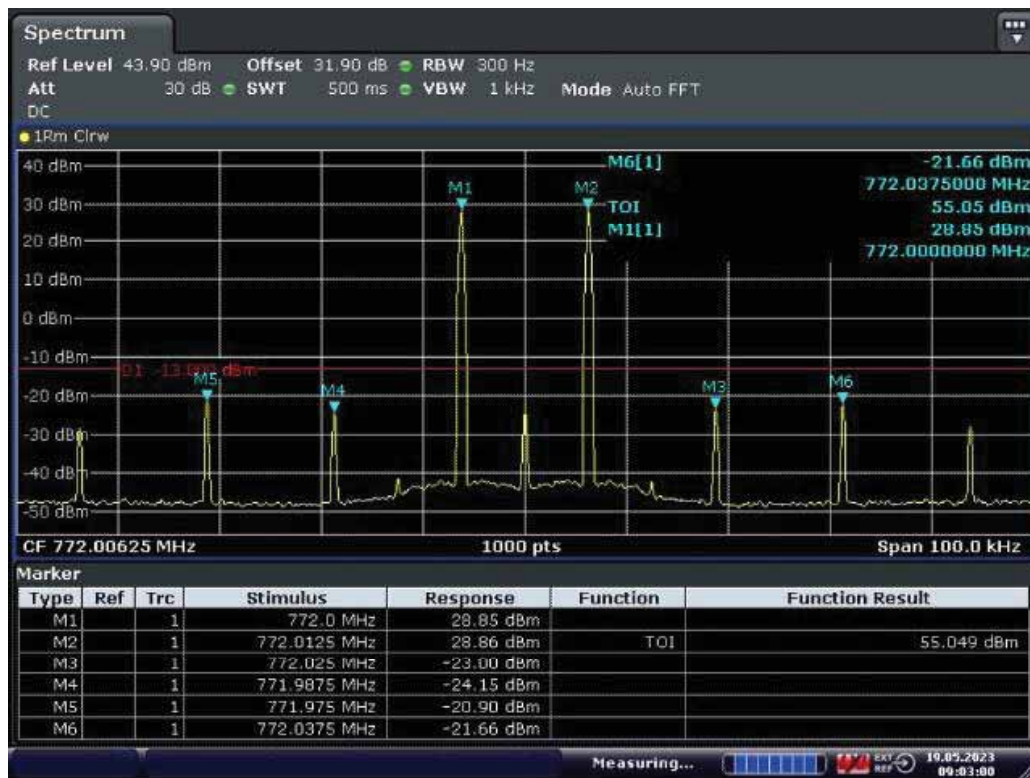
Date: 19.MAY.2023 09:06:28

Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



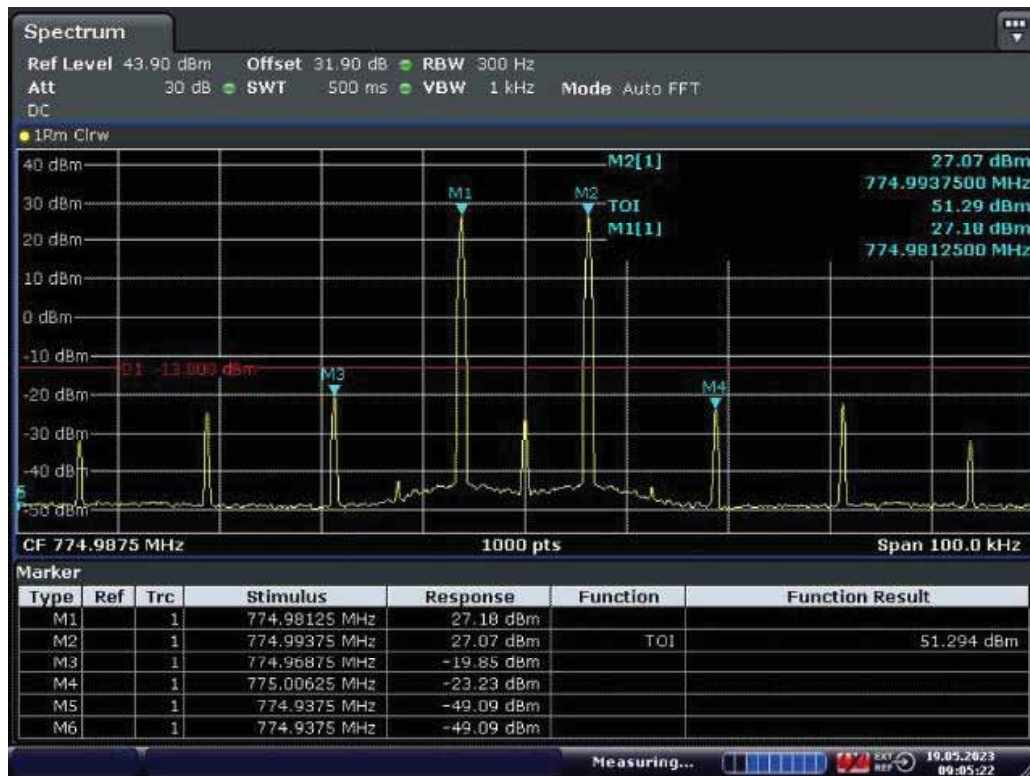
Date: 19.MAY.2023 09:02:04

Mid Frequency and with the ALC threshold level



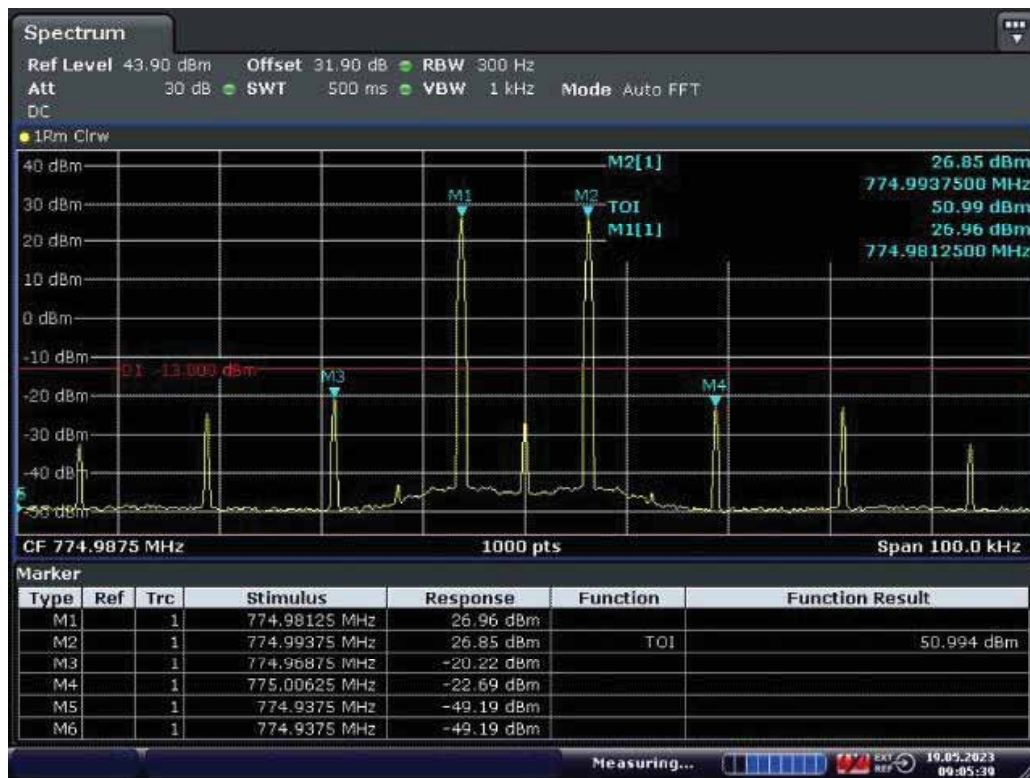
Date: 19.MAY.2023 09:03:00

Mid Frequency and with the input signal amplitude set 3 dB above the ALC threshold



Date: 19.MAY.2023 09:05:22

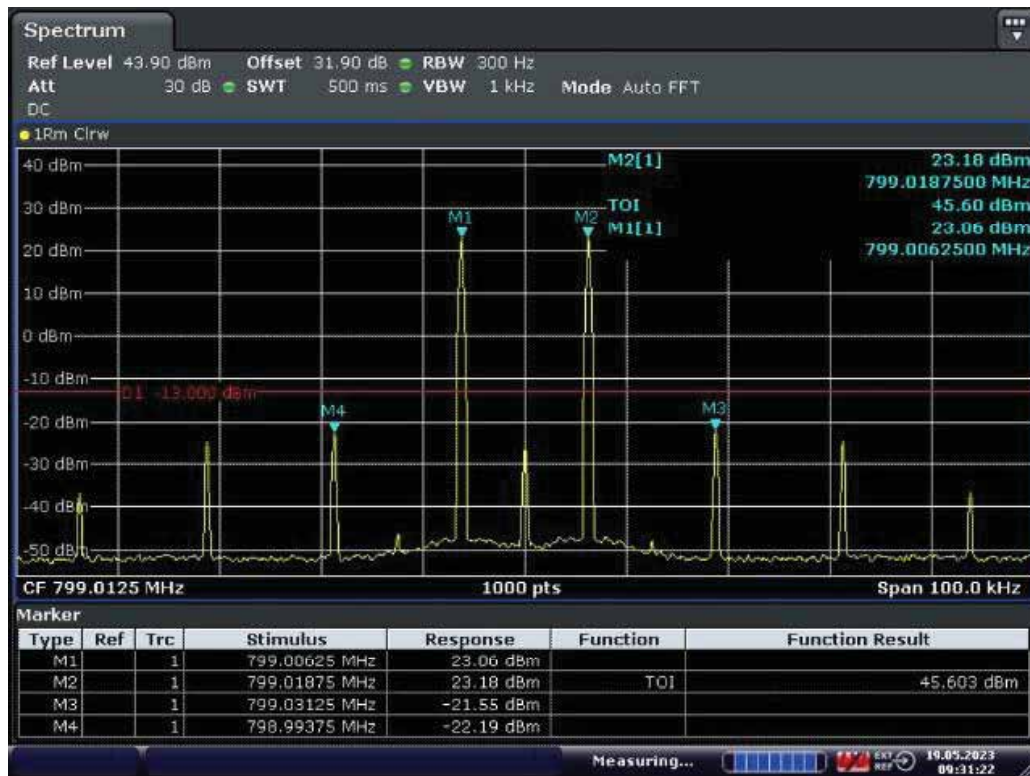
High Frequency and with the ALC threshold level



Date: 19.MAY.2023 09:05:39

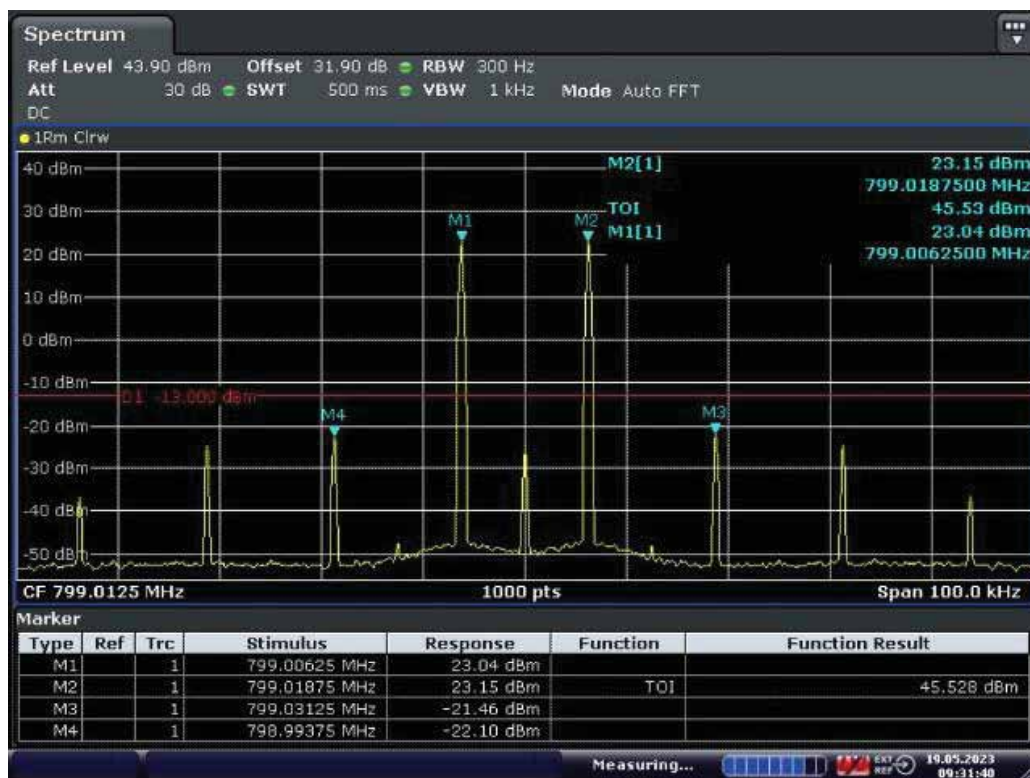
High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

11.18.1.3.1.2. Uplink



Date: 19.MAY.2023 09:31:22

Low Frequency and with the ALC threshold level



Date: 19.MAY.2023 09:31:40

Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



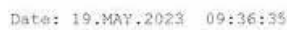
Date: 19.MAY.2023 09:35:29

Mid Frequency and with the ALC threshold level

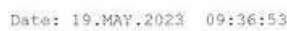


Date: 19.MAY.2023 09:35:46

Mid Frequency and with the input signal amplitude set 3 dB above the ALC threshold



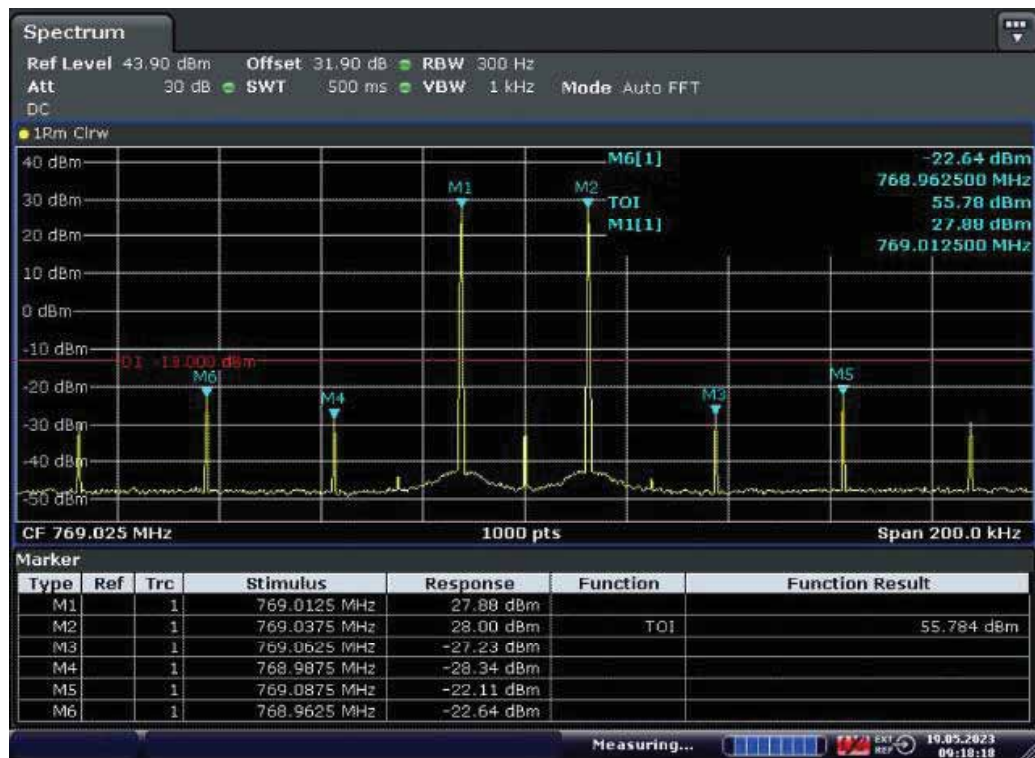
High Frequency and with the ALC threshold level



High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

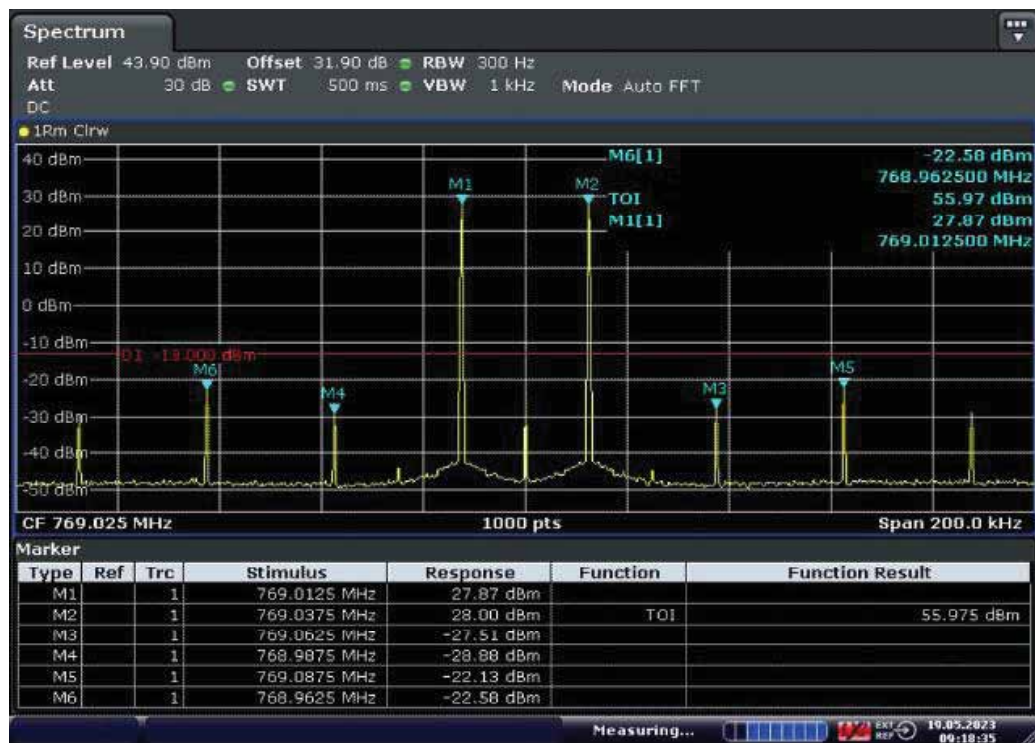
11.18.1.3.2. Channel bandwidth 25kHz

11.18.1.3.2.1. Downlink



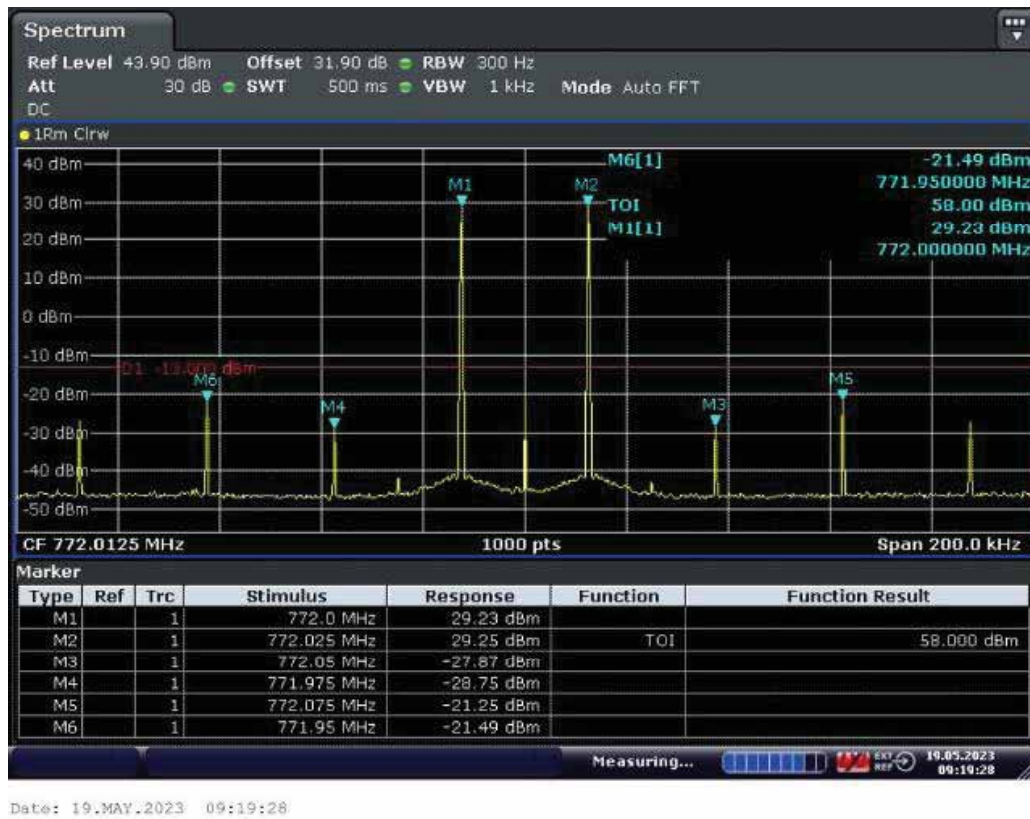
Date: 19.MAY.2023 09:18:18

Low Frequency and with the ALC threshold level

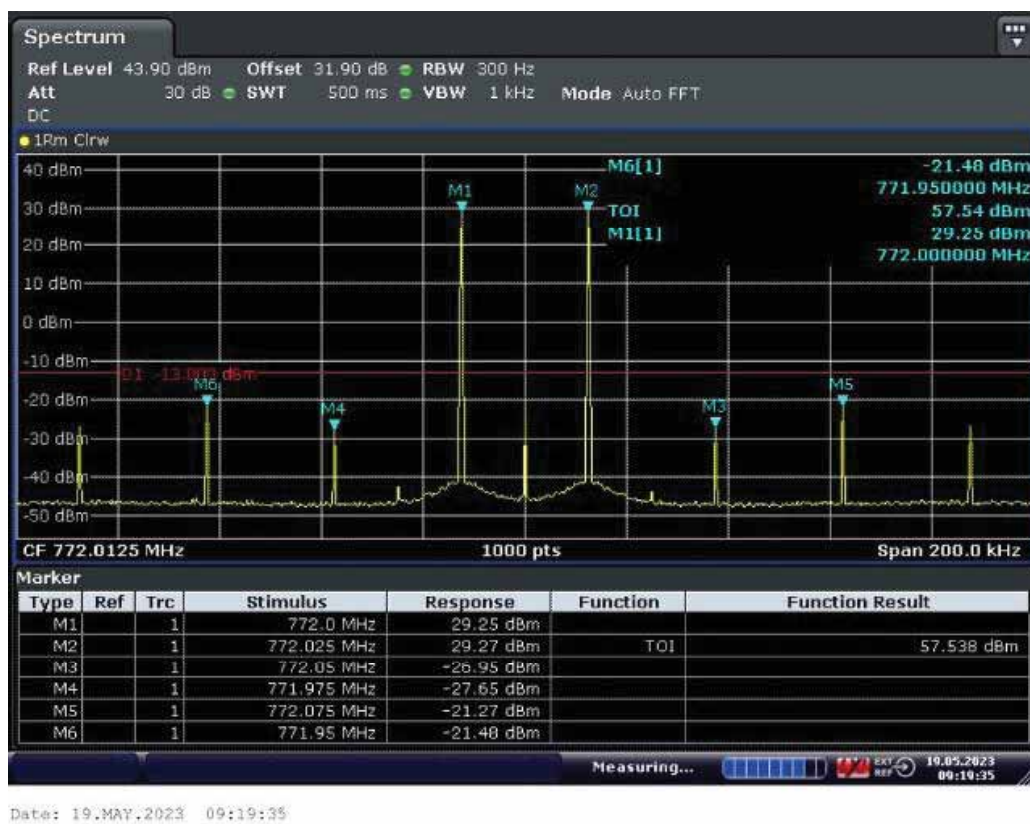


Date: 19.MAY.2023 09:18:35

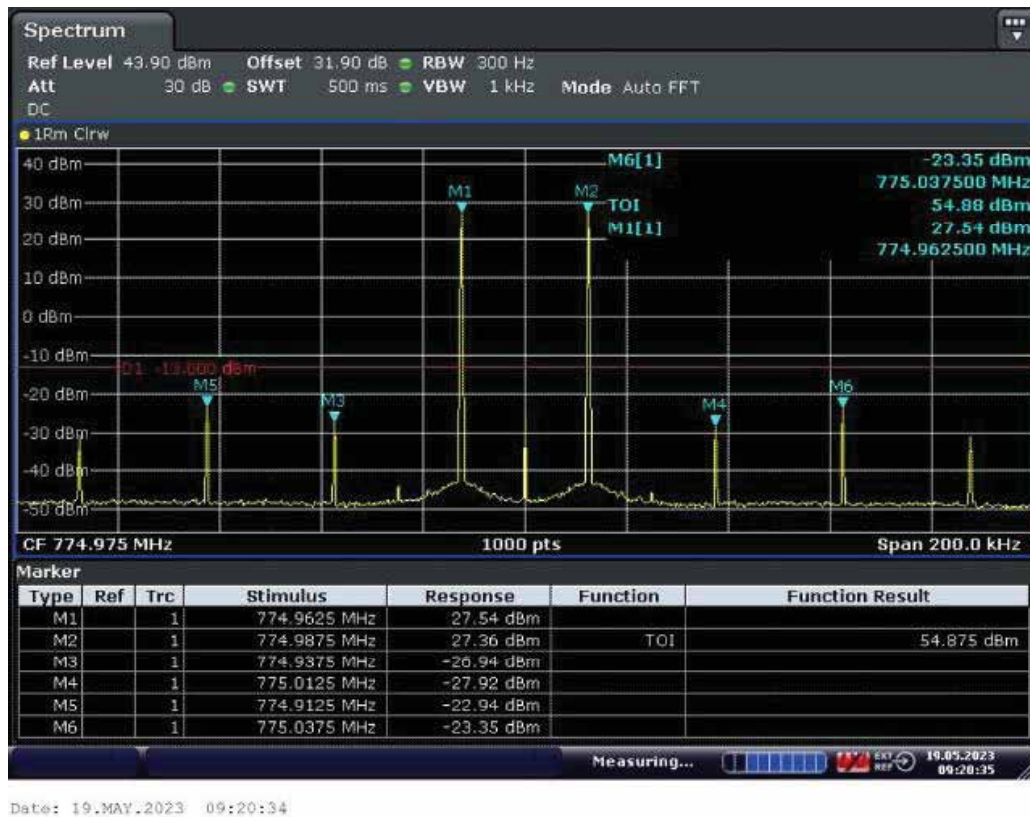
Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



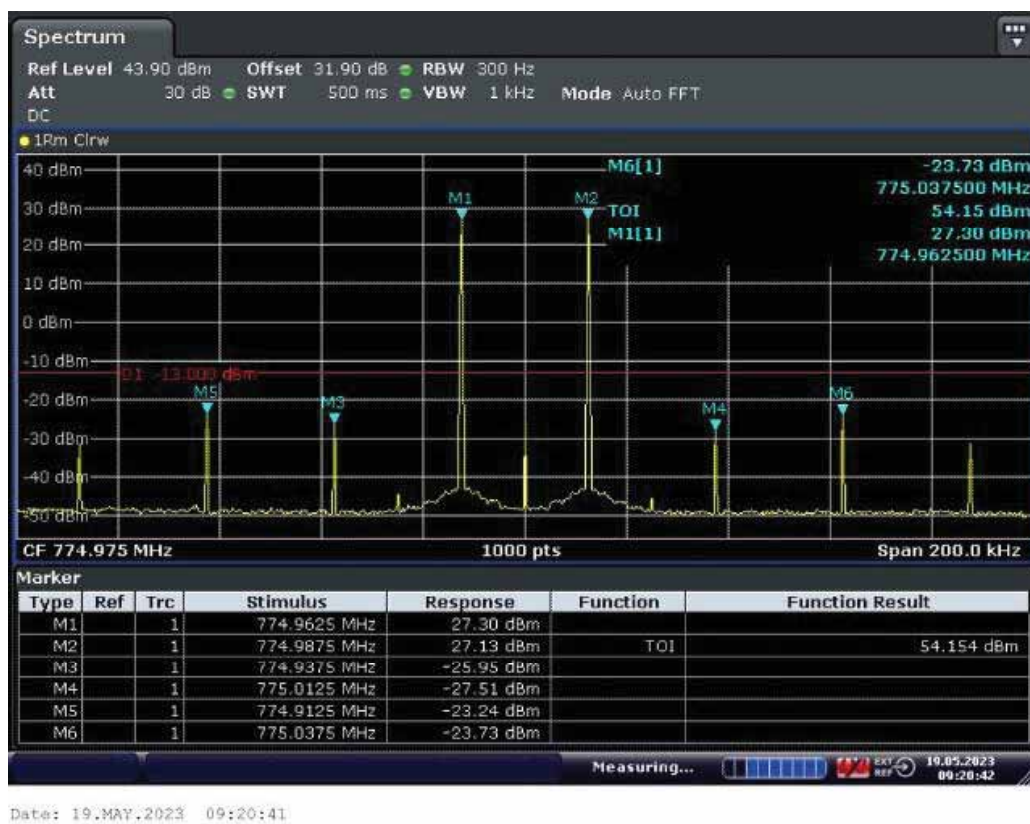
Mid Frequency and with the ALC threshold level



Mid Frequency and with the input signal amplitude set 3 dB above the ALC threshold



High Frequency and with the ALC threshold level



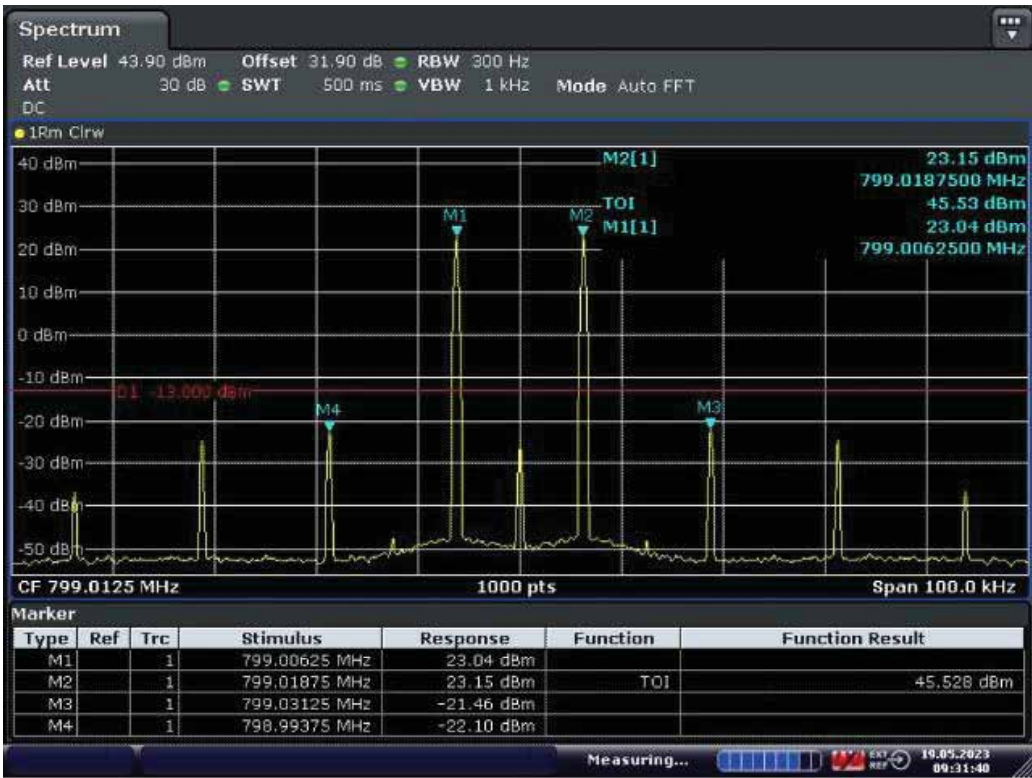
High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

11.18.1.3.2.2. Uplink



Date: 19.MAY.2023 09:31:22

Low Frequency and with the ALC threshold level



Date: 19.MAY.2023 09:31:40

Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



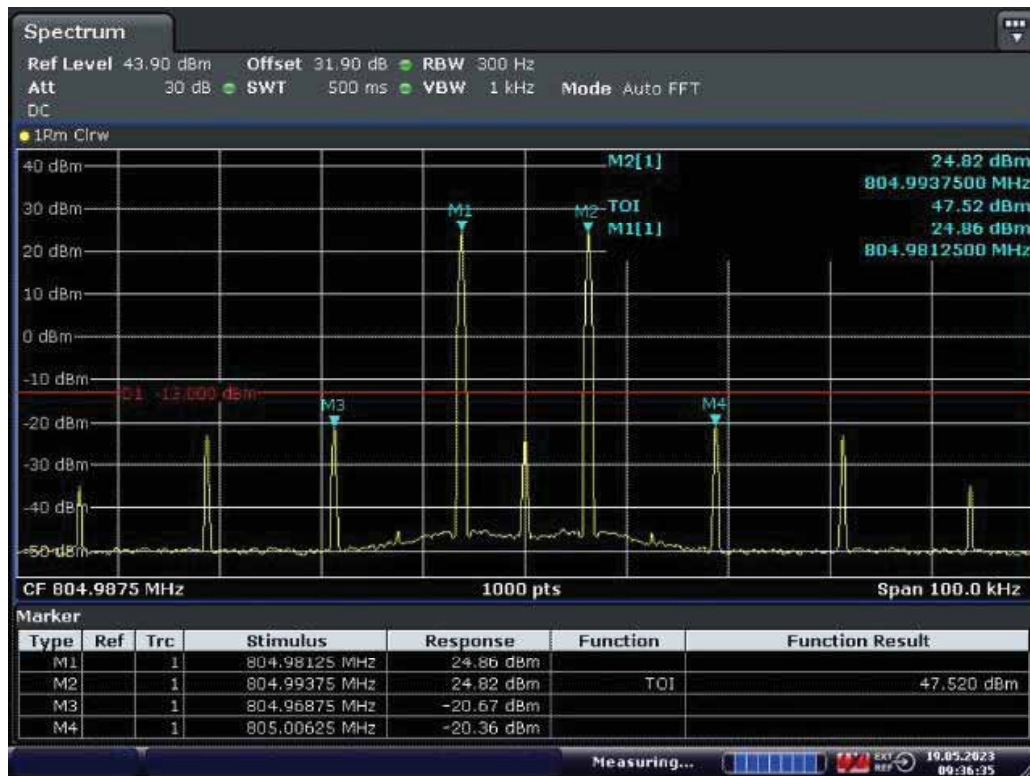
Date: 19.MAY.2023 09:35:29

Mid Frequency and with the ALC threshold level



Date: 19.MAY.2023 09:35:46

Mid Frequency and with the input signal amplitude set 3 dB above the ALC threshold



Date: 19.MAY.2023 09:36:35

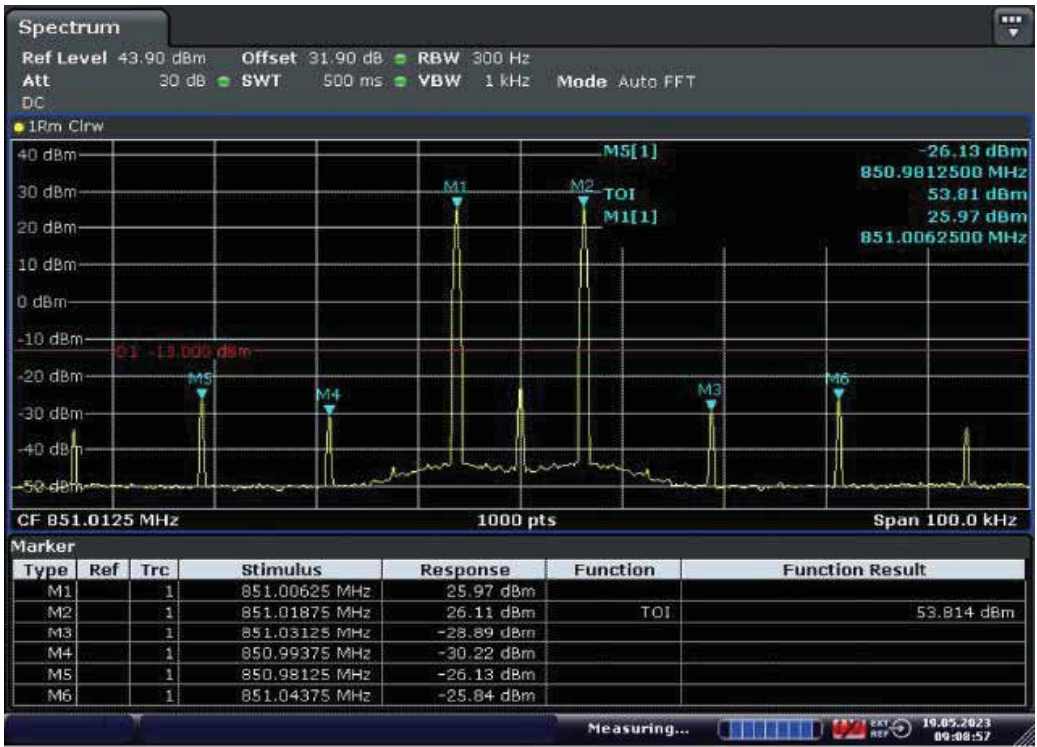
High Frequency and with the ALC threshold level



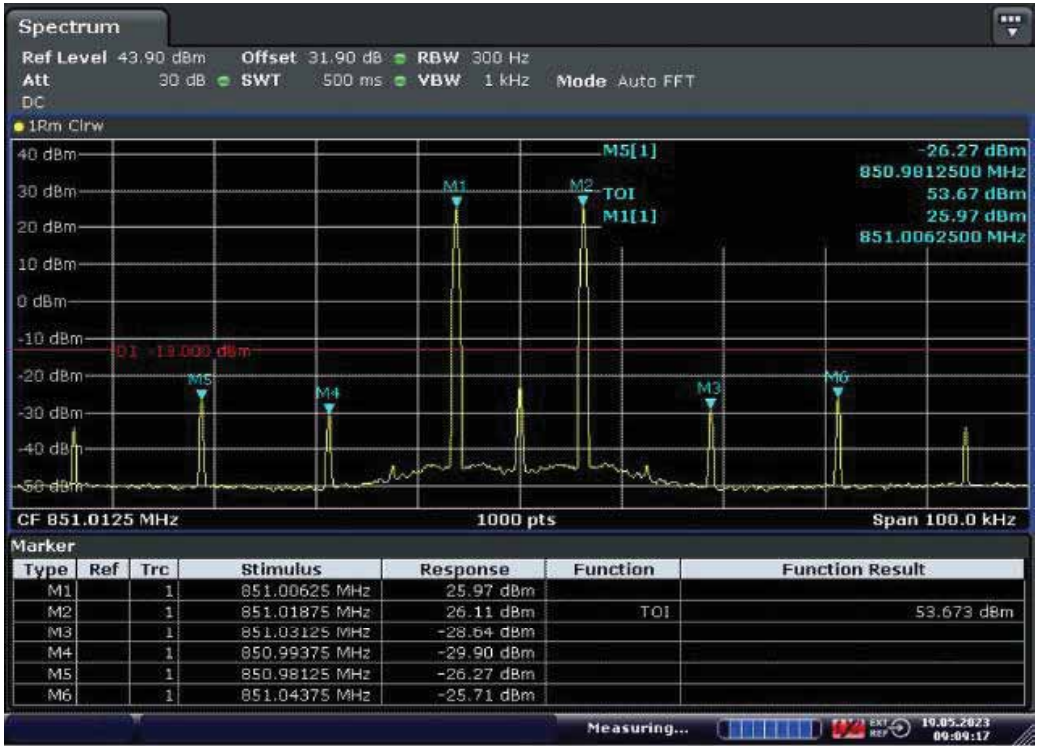
Date: 19.MAY.2023 09:36:53

High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

- 11.18.1.4. 800MHz Band
- 11.18.1.4.1. Channel bandwidth 12.5kHz
- 11.18.1.4.1.1. Downlink



Low Frequency and with the ALC threshold level



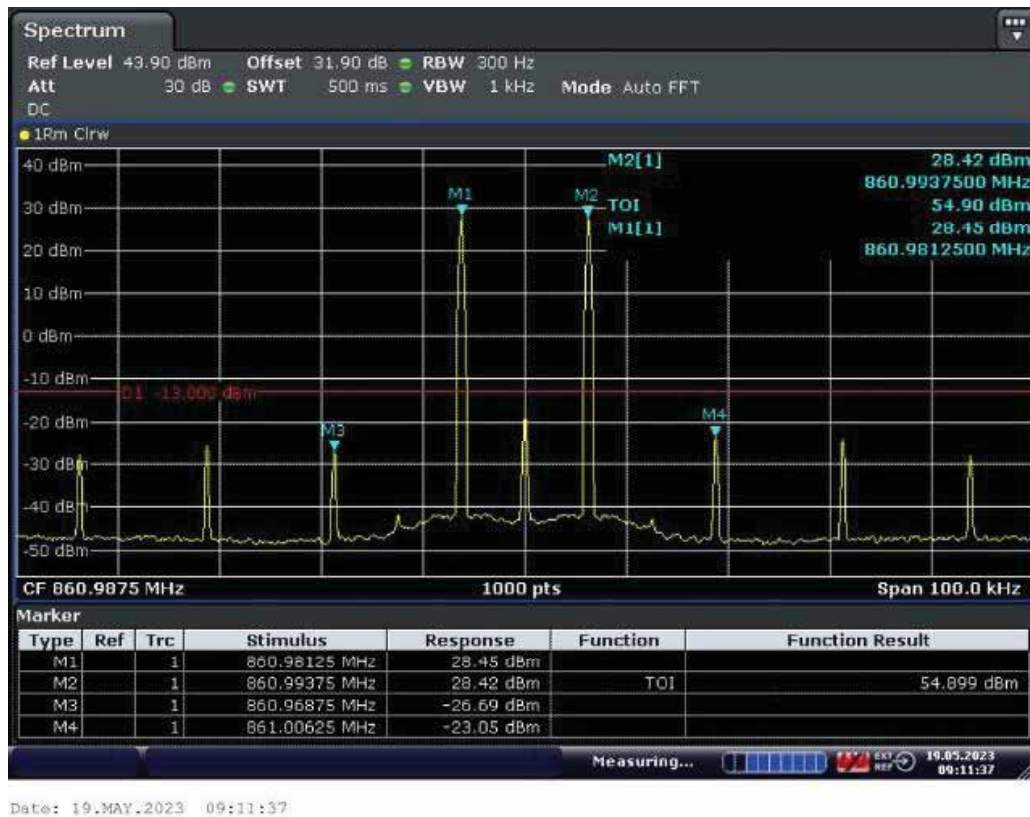
Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



Mid Frequency and with the ALC threshold level



Mid Frequency and with the input signal amplitude set 3 dB above the ALC threshold



High Frequency and with the ALC threshold level



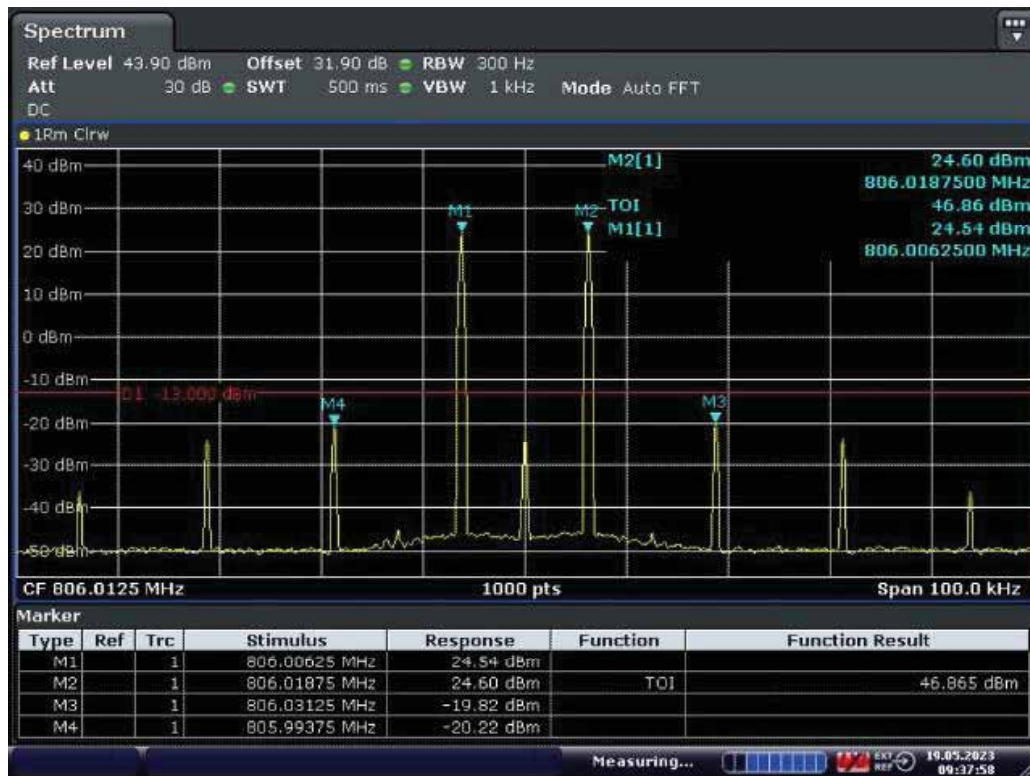
High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

11.18.1.4.1.2. Uplink



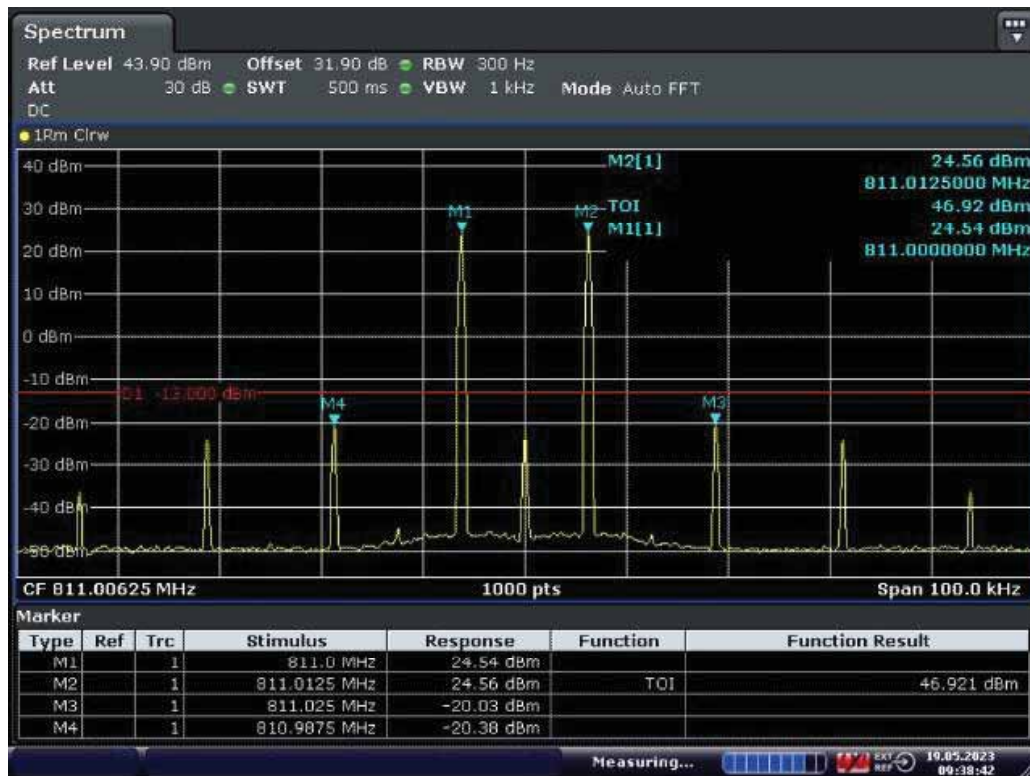
Date: 19.MAY.2023 09:37:43

Low Frequency and with the ALC threshold level



Date: 19.MAY.2023 09:37:58

Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



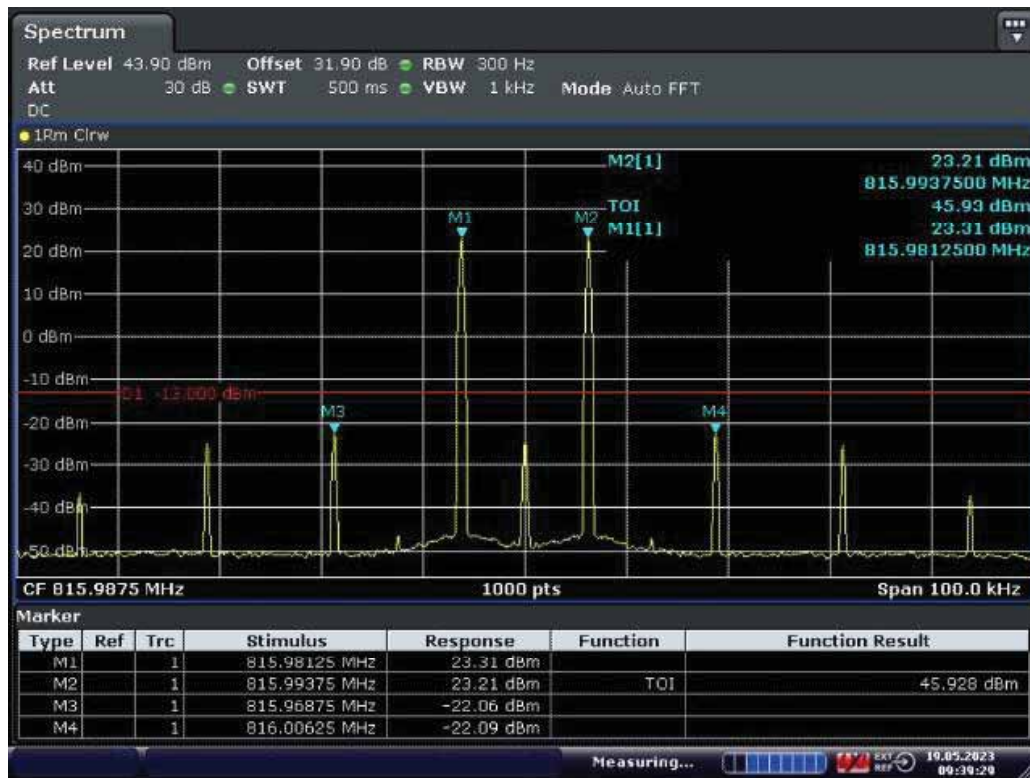
Date: 19.MAY.2023 09:38:42

Mid Frequency and with the ALC threshold level



Date: 19.MAY.2023 09:38:55

Mid Frequency and with the input signal amplitude set 3 dB above the ALC threshold



Date: 19.MAY.2023 09:39:29

High Frequency and with the ALC threshold level

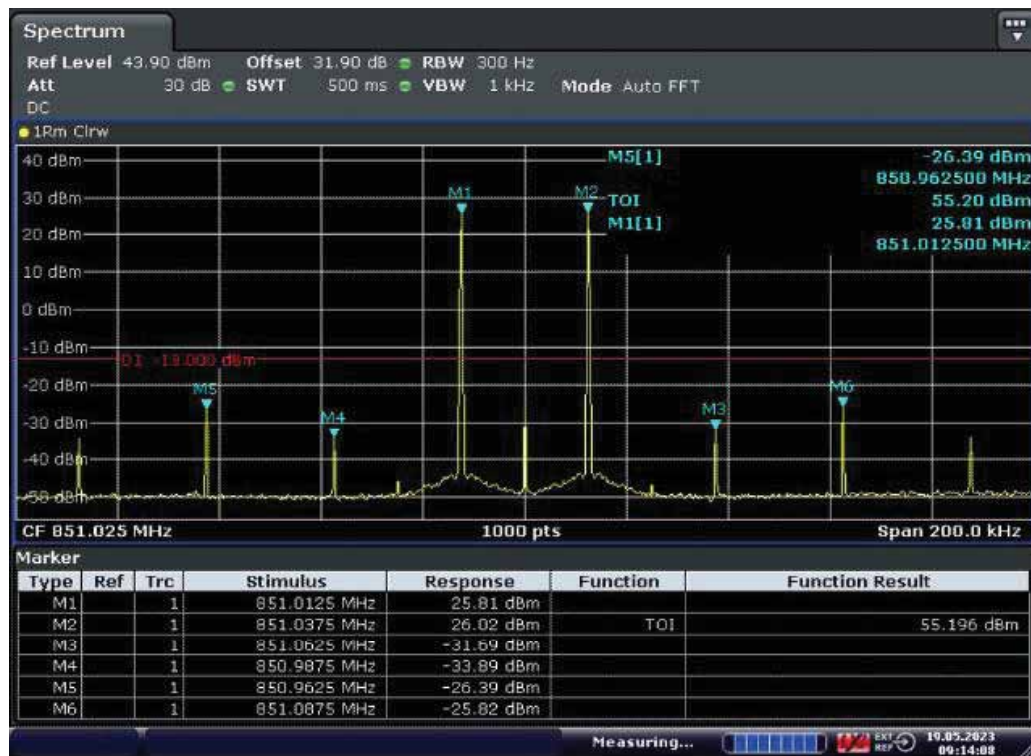


Date: 19.MAY.2023 09:39:34

High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

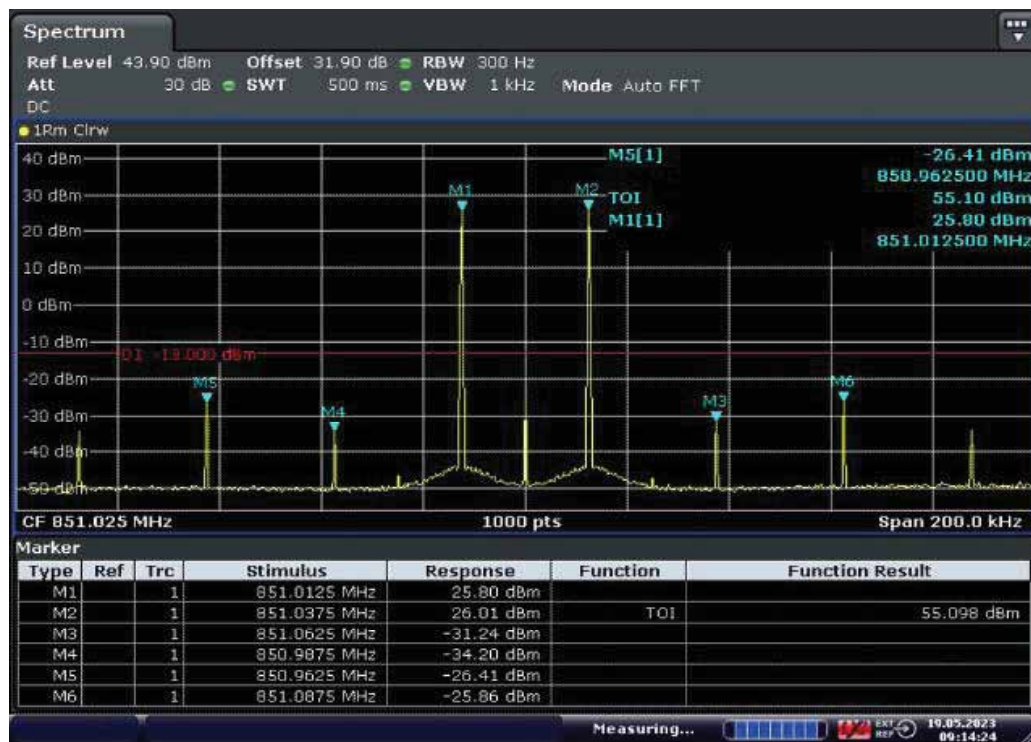
11.18.1.4.2. Channel bandwidth 25kHz

11.18.1.4.2.1. Downlink



Date: 19.MAY.2023 09:14:08

Low Frequency and with the ALC threshold level



Date: 19.MAY.2023 09:14:24

Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold