

10.5.4.1.2. 800MHz Band

10.5.4.1.2.1. P25 Phase I(C4FM)

Carrier frequency	Input signal status	Limit	Test Data	Result
Downlink				
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.1.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.1.1	PASS
Uplink				
Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.1.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.1.2	PASS

10.5.4.1.2.2. P25 Phase II(H-DQPSK)

Carrier frequency	Input signal status	Limit	Test Data	Result
Downlink				
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.2.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.2.1	PASS
Uplink				
Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.2.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.2.2	PASS

10.5.4.1.2.3. DMR

Carrier frequency	Input signal status	Limit	Test Data	Result
Downlink				
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.3.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.3.1	PASS
Uplink				
Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.3.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+D+G+H	See clause 10.5.5.1.2.3.2	PASS

10.5.4.1.2.4. Analog FM

Carrier frequency	Input signal status	Limit	Test Data	Result
Downlink				
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	Mask B+G	See clause 10.5.5.1.2.4.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+G	See clause 10.5.5.1.2.4.1	PASS
Uplink				

Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	Mask B+G	See clause 10.5.5.1.2.4.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+G	See clause 10.5.5.1.2.4.2	PASS

10.5.4.1.2.5. Tetra

Carrier frequency	Input signal status	Limit	Test Data	Result
Downlink				
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	Mask B+G	See clause 10.5.5.1.2.5.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+G	See clause 10.5.5.1.2.5.1	PASS
Uplink				
Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	Mask B+G	See clause 10.5.5.1.2.5.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B+G	See clause 10.5.5.1.2.5.2	PASS

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

10.5.4.2. Occupied bandwidth

10.5.4.2.1. 700MHz Band

10.5.4.2.1.1. P25 Phase I(C4FM)

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.1.1
(2) Uplink		
Mid frequency: 802.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.1.2

10.5.4.2.1.2. P25 Phase II(H-DQPSK)

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.2.1
(2) Uplink		
Mid frequency: 802.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.2.2

10.5.4.2.1.3. DMR

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.3.1
(2) Uplink		
Mid frequency: 802.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.3.2

10.5.4.2.1.4. Analog FM

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.4.1

	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.4.1
(2) Uplink		
Mid frequency: 802.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.4.2

10.5.4.2.1.5. Tetra

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.5.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.5.1
(2) Uplink		
Mid frequency: 802.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.5.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.5.2

10.5.4.2.2. 800MHz Band

10.5.4.2.2.1. P25 Phase I(C4FM) mode

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.1.1
(2) Uplink		
Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.1.2

10.5.4.2.2.2. P25 Phase II(H-DQPSK) mode

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.2.1
(2) Uplink		
Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.2.2

10.5.4.2.2.3. DMR

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.3.1
(2) Uplink		
Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.3.2

10.5.4.2.2.4. Analog FM

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.4.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.4.1
(2) Uplink		
Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.4.2

10.5.4.2.2.5. Tetra

Carrier frequency	Input signal status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.5.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.5.1
(2) Uplink		
Mid frequency: 811.0MHz	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.5.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.5.2

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

10.5.4.3. Input VS output Comparison

10.5.4.3.1. 700MHz Band

10.5.4.3.1.1. P25 Phase I(C4FM)

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	Input signal	See clause 10.5.5.3.1.1.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.1.1
(2) Uplink		
Mid frequency: 802.0MHz	Input signal	See clause 10.5.5.3.1.1.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.1.2

10.5.4.3.1.2. P25 Phase II(H-DQPSK)

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	Input signal	See clause 10.5.5.3.1.2.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.2.1
(2) Uplink		
Mid frequency: 802.0MHz	Input signal	See clause 10.5.5.3.1.2.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.2.2

10.5.4.3.1.3. DMR

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	Input signal	See clause 10.5.5.3.1.3.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.3.1
(2) Uplink		
Mid frequency: 802.0MHz	Input signal	See clause 10.5.5.3.1.3.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.3.2

	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.3.2
--	--	---------------------------

10.5.4.3.1.4. Analog FM

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	Input signal	See clause 10.5.5.3.1.4.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.4.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.4.1
(2) Uplink		
Mid frequency: 802.0MHz	Input signal	See clause 10.5.5.3.1.4.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.4.2

10.5.4.3.1.5. Tetra

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 772.0MHz	Input signal	See clause 10.5.5.3.1.5.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.5.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.5.1
(2) Uplink		
Mid frequency: 802.0MHz	Input signal	See clause 10.5.5.3.1.5.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.5.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.5.2

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

10.5.4.3.2. 800MHz Band

10.5.4.3.2.1. P25 Phase I(C4FM)

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	Input signal	See clause 10.5.5.3.2.1.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.1.1
(2) Uplink		
Mid frequency: 811.0MHz	Input signal	See clause 10.5.5.3.2.1.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.1.2

10.5.4.3.2.2. P25 Phase II(H-DQPSK)

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	Input signal	See clause 10.5.5.3.2.2.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.2.1
(2) Uplink		
Mid frequency: 811.0MHz	Input signal	See clause 10.5.5.3.2.2.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.2.2

10.5.4.3.2.3. DMR

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	Input signal	See clause 10.5.5.3.2.3.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.3.1
(2) Uplink		
Mid frequency: 811.0MHz	Input signal	See clause 10.5.5.3.2.3.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.3.2

	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.3.2
--	--	---------------------------

10.5.4.3.2.4. Analog FM

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	Input signal	See clause 10.5.5.3.2.4.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.4.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.4.1
(2) Uplink		
Mid frequency: 811.0MHz	Input signal	See clause 10.5.5.3.2.4.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.4.2

10.5.4.3.2.5. Tetra

Carrier frequency	Input VS output Comparison status	Test data
(1) Downlink		
Mid frequency: 856.0MHz	Input signal	See clause 10.5.5.3.2.5.1
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.5.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.5.1
(2) Uplink		
Mid frequency: 811.0MHz	Input signal	See clause 10.5.5.3.2.5.2
	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.5.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.5.2

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

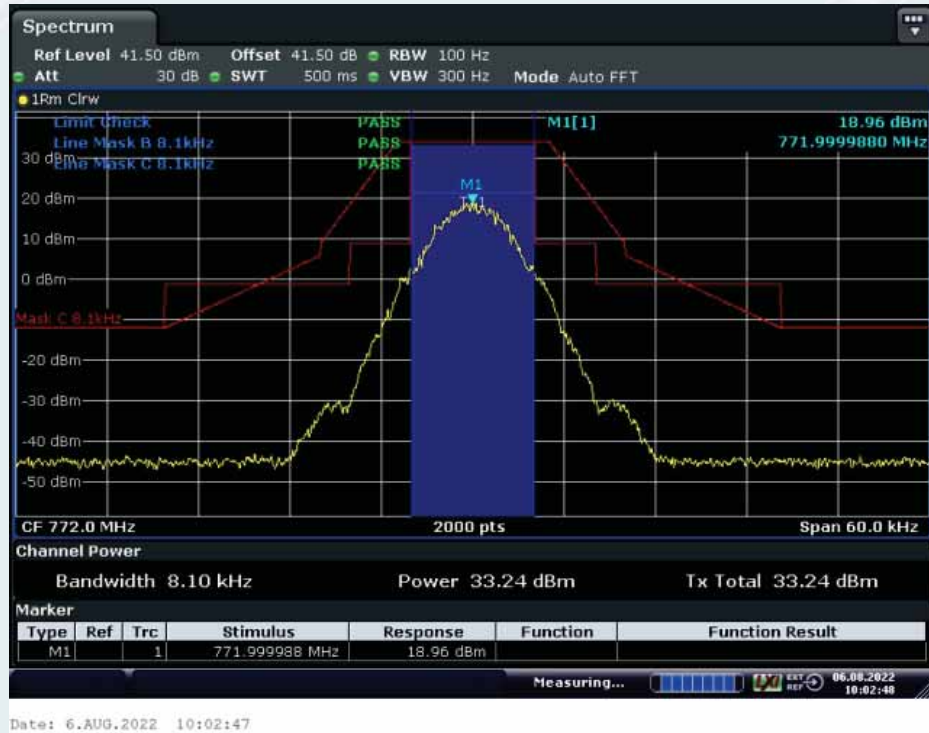
10.5.5. Test screenshot

10.5.5.1. Emission mask

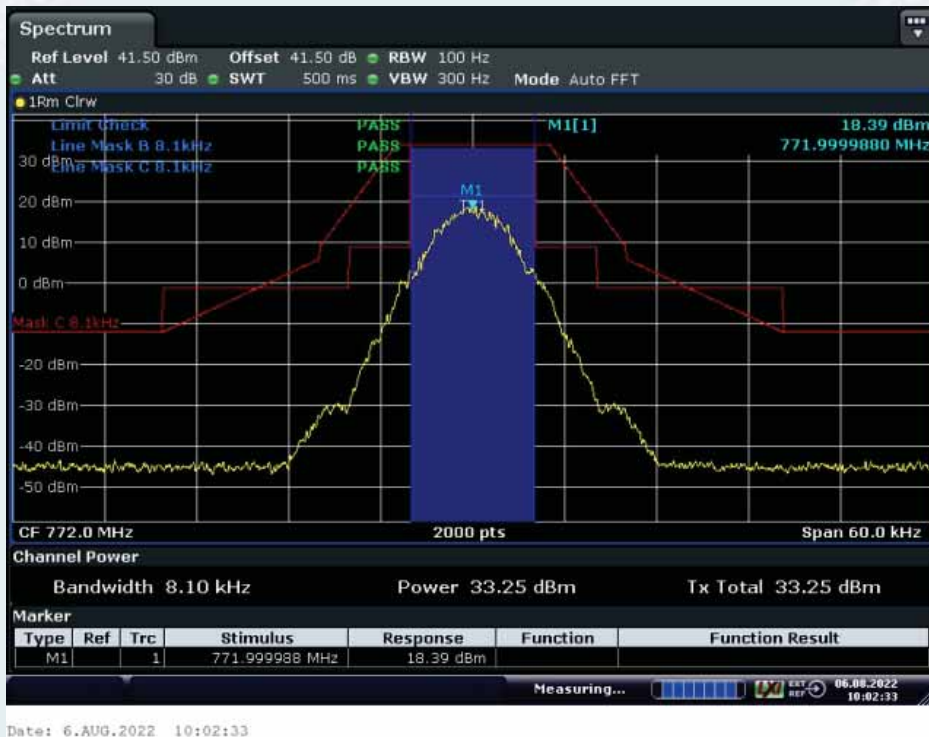
10.5.5.1.1. 700MHz Band

10.5.5.1.1.1. P25 Phase I(C4FM) (Mask B+ Mask C)

10.5.5.1.1.1. Downlink transmit

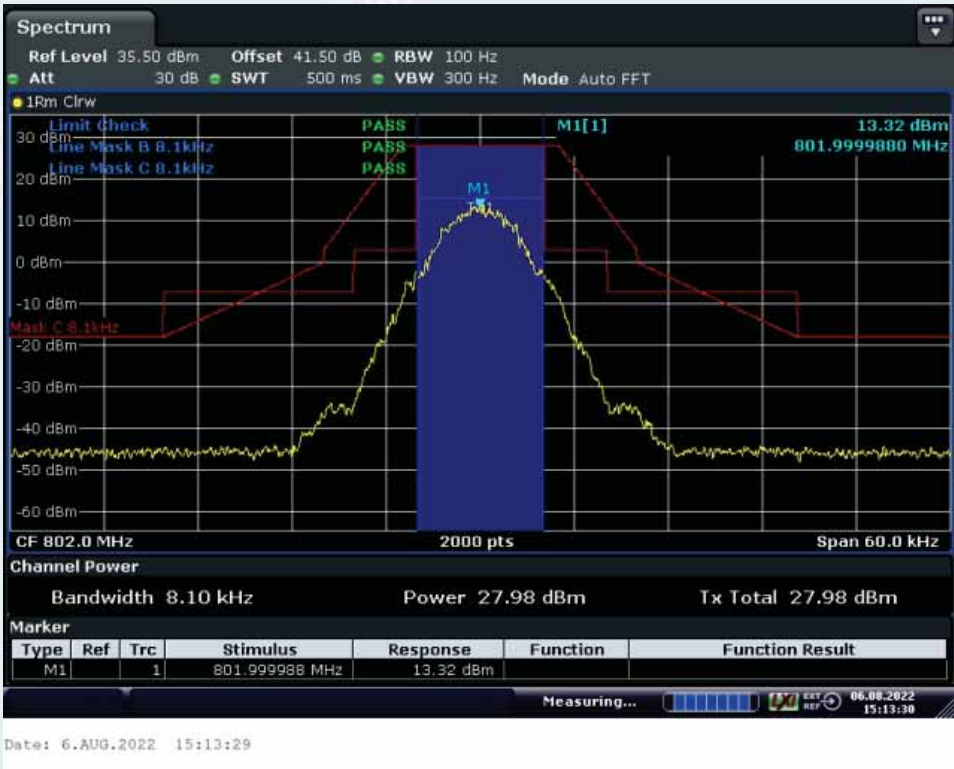


With the input signal amplitude set the AGC threshold
 Middle Frequency: 772.0MHz

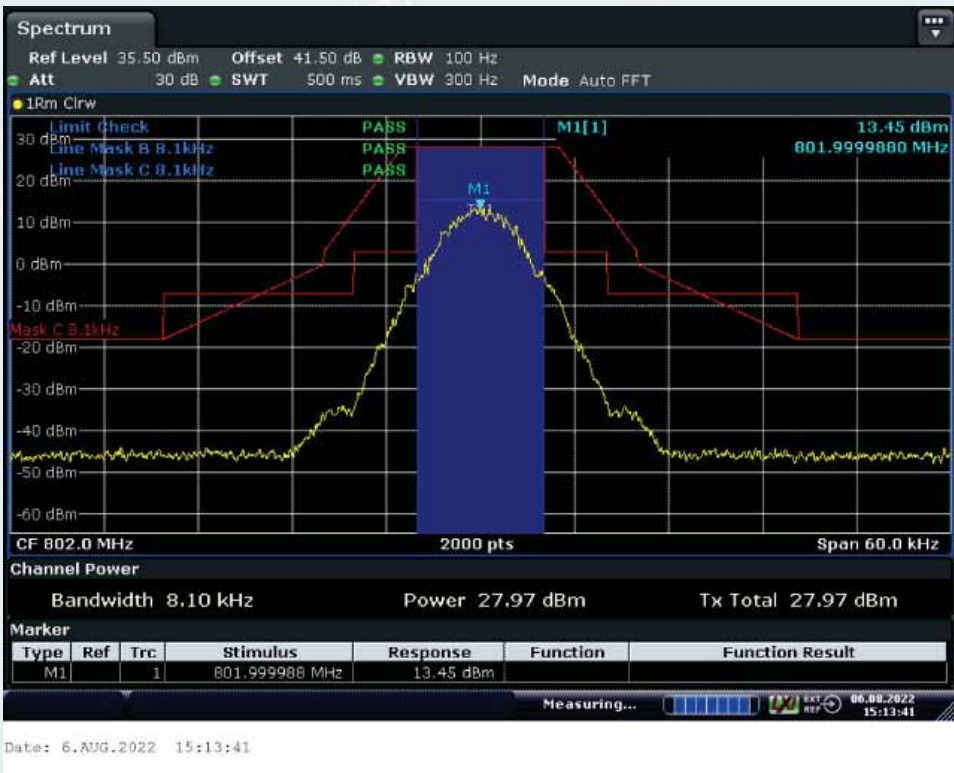


With the input signal amplitude set 3 dB above the AGC threshold
 Middle Frequency: 772.0MHz

10.5.5.1.1.1.2. Uplink transmit



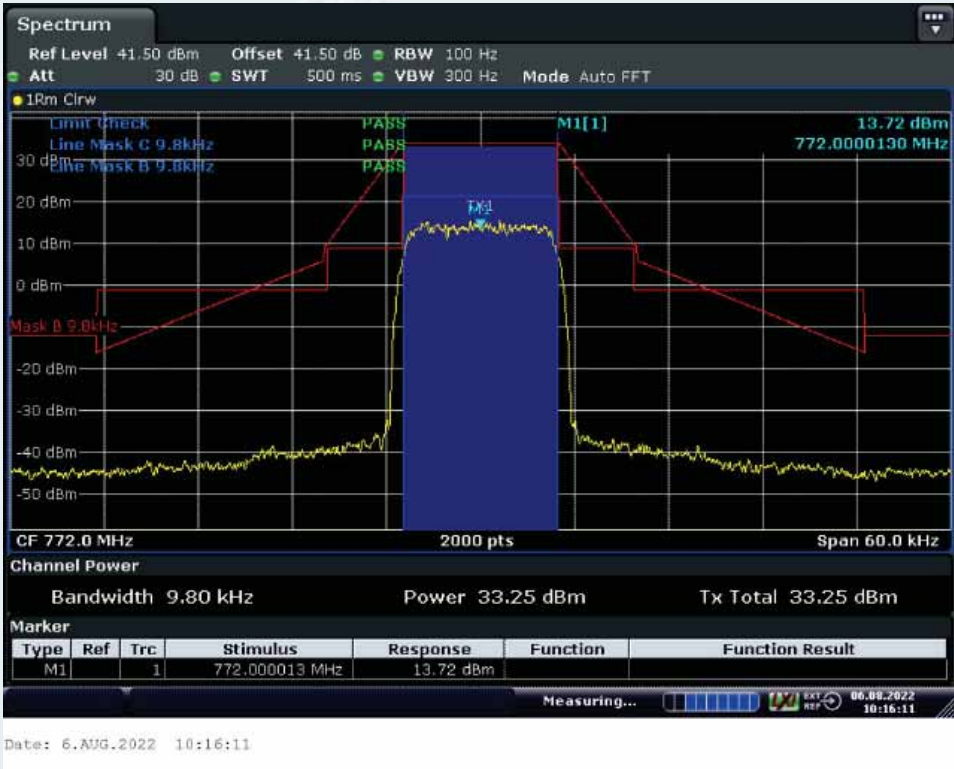
With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz



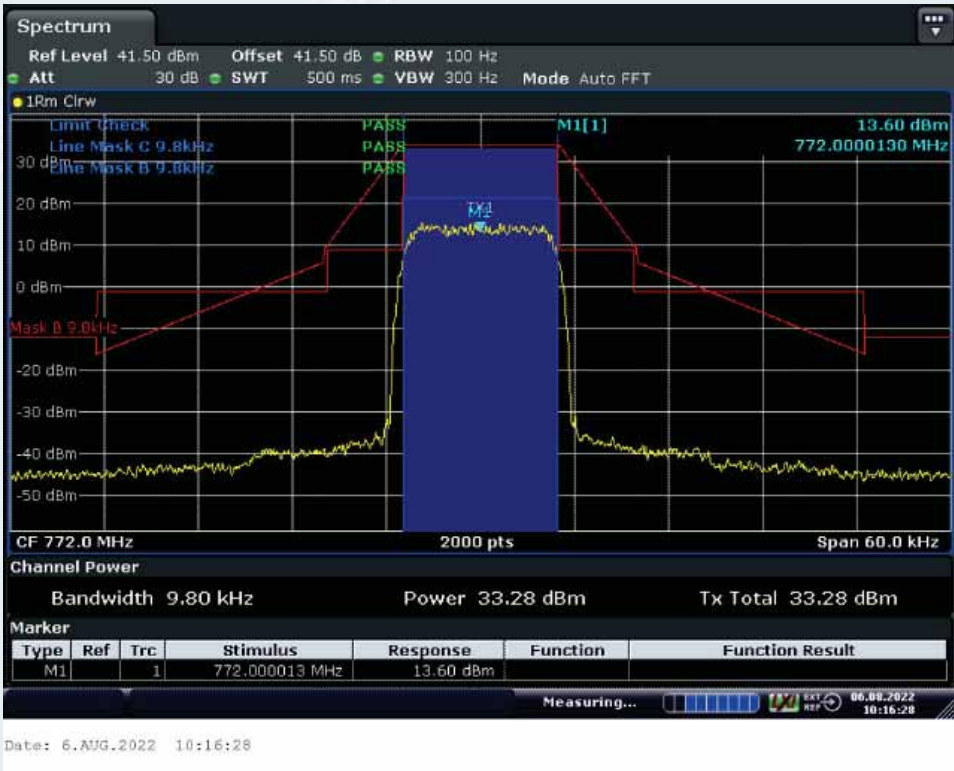
With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

10.5.5.1.1.2. P25 Phase II (H-DQPSK) (Mask B+ Mask C)

10.5.5.1.1.2.1. Downlink transmit

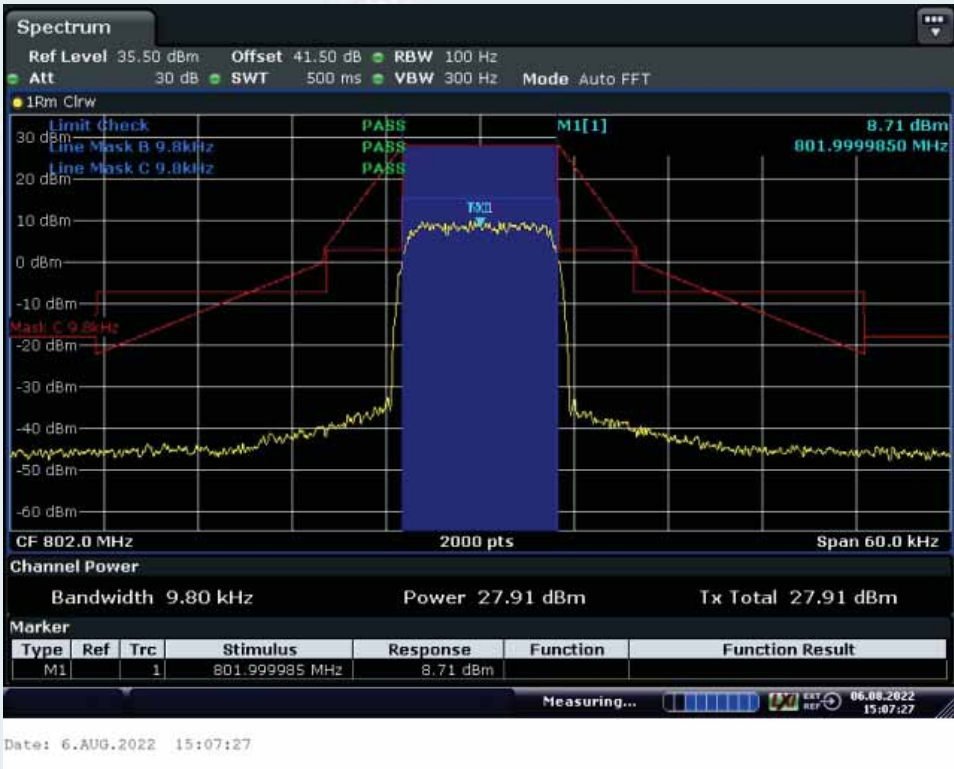


With the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz

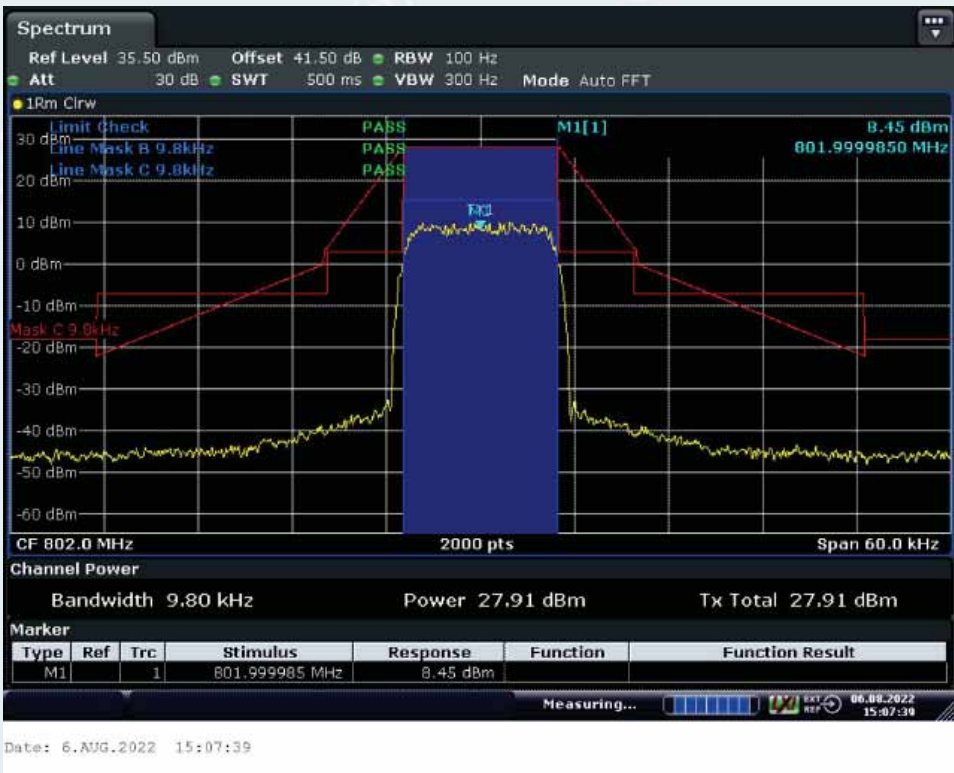


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 772.0MHz

10.5.5.1.1.2.2. Uplink transmit



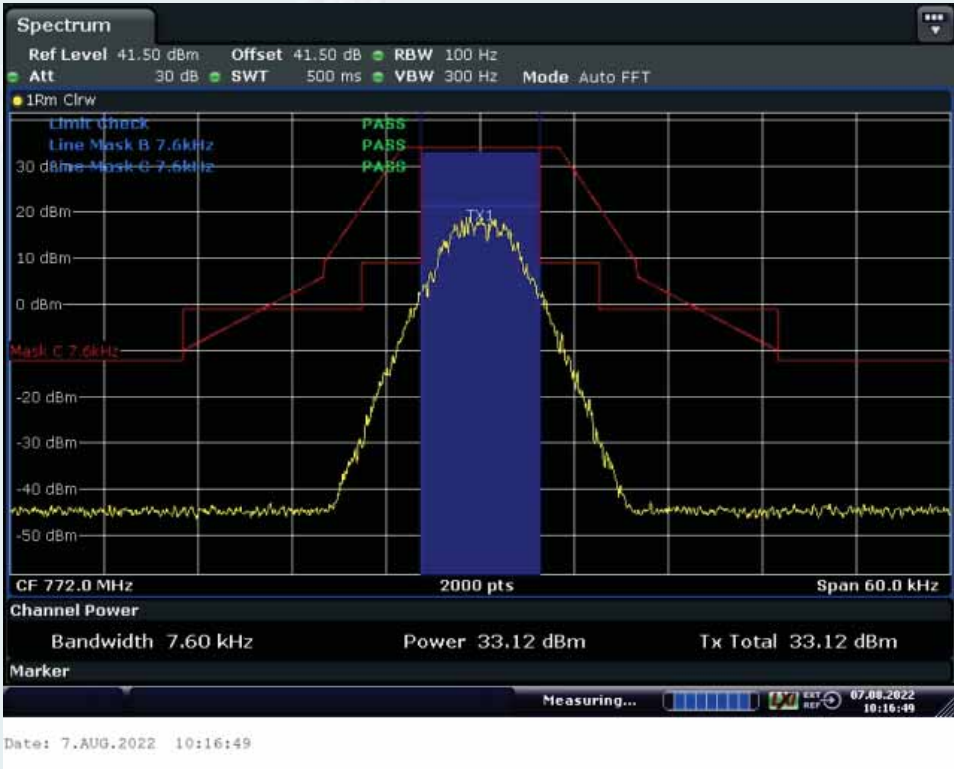
With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz



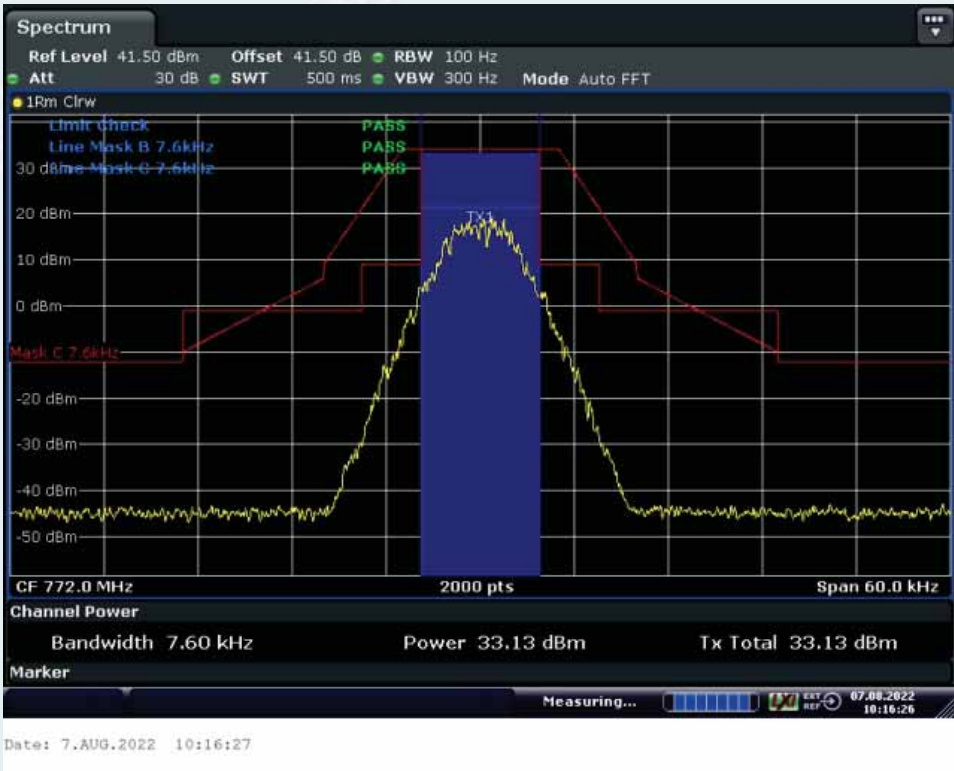
With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

10.5.5.1.1.3. DMR (Mask B+ Mask C)

10.5.5.1.1.3.1. Downlink transmit

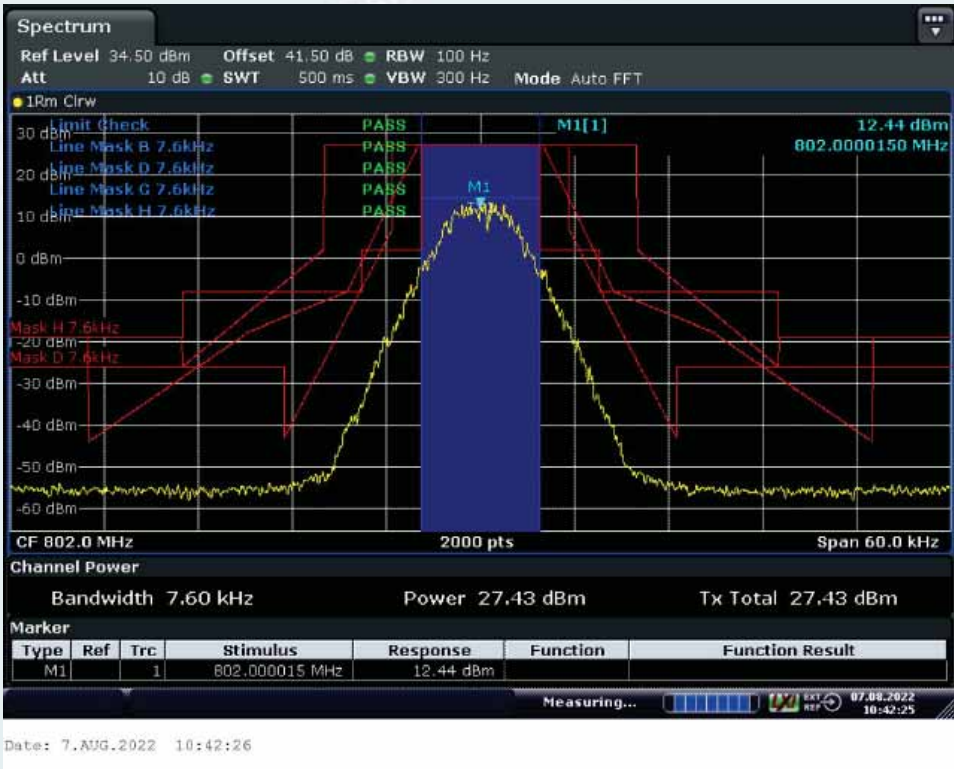


With the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz

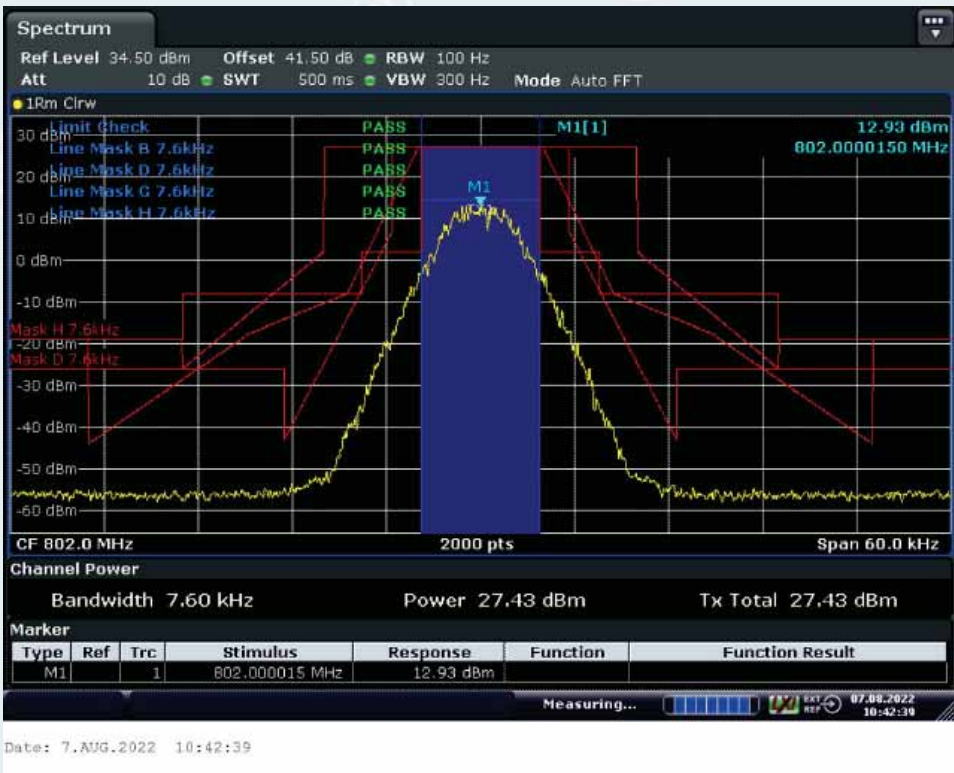


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 772.0MHz

10.5.5.1.1.3.2. Uplink transmit



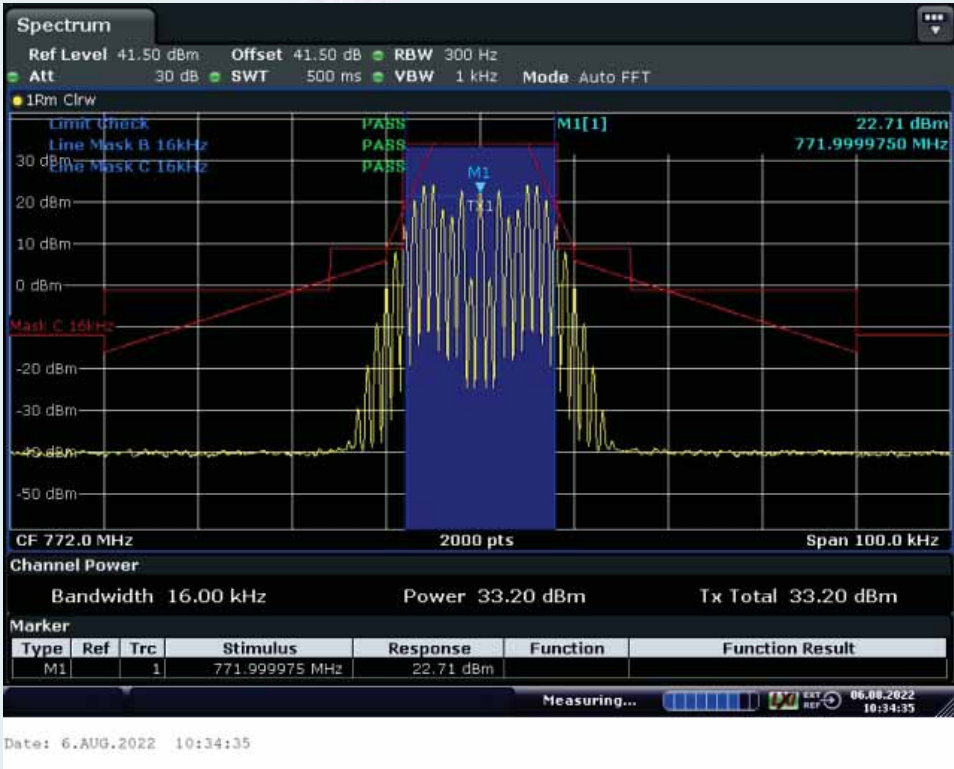
With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz



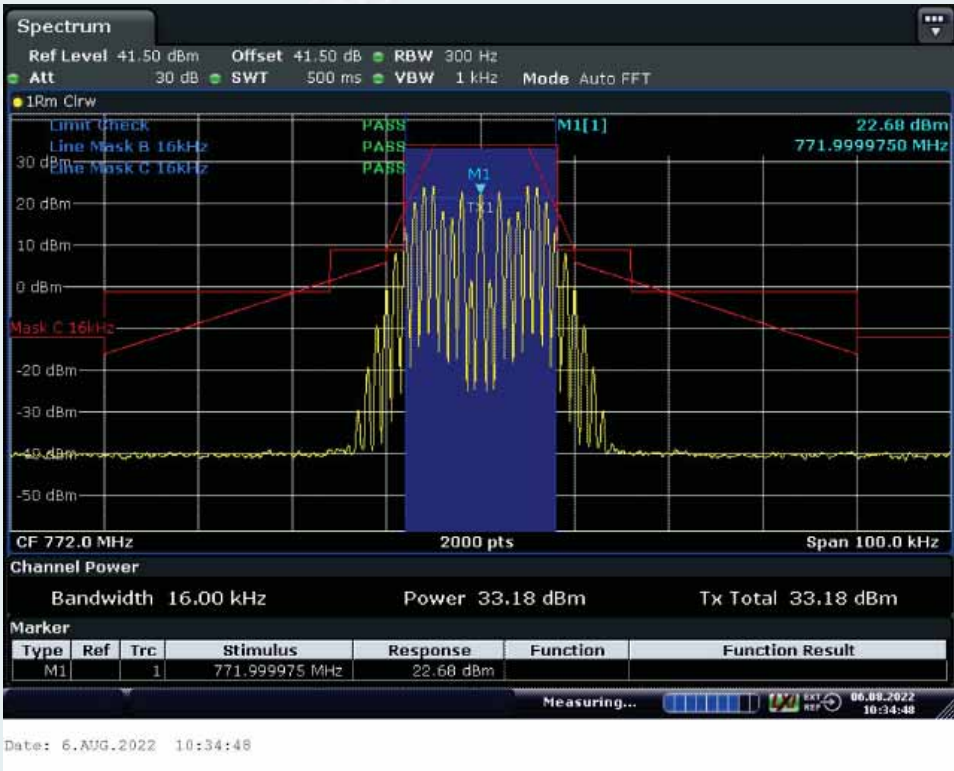
With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

10.5.5.1.1.4. Analog FM (Mask B+ Mask C)

10.5.5.1.1.4.1. Downlink transmit

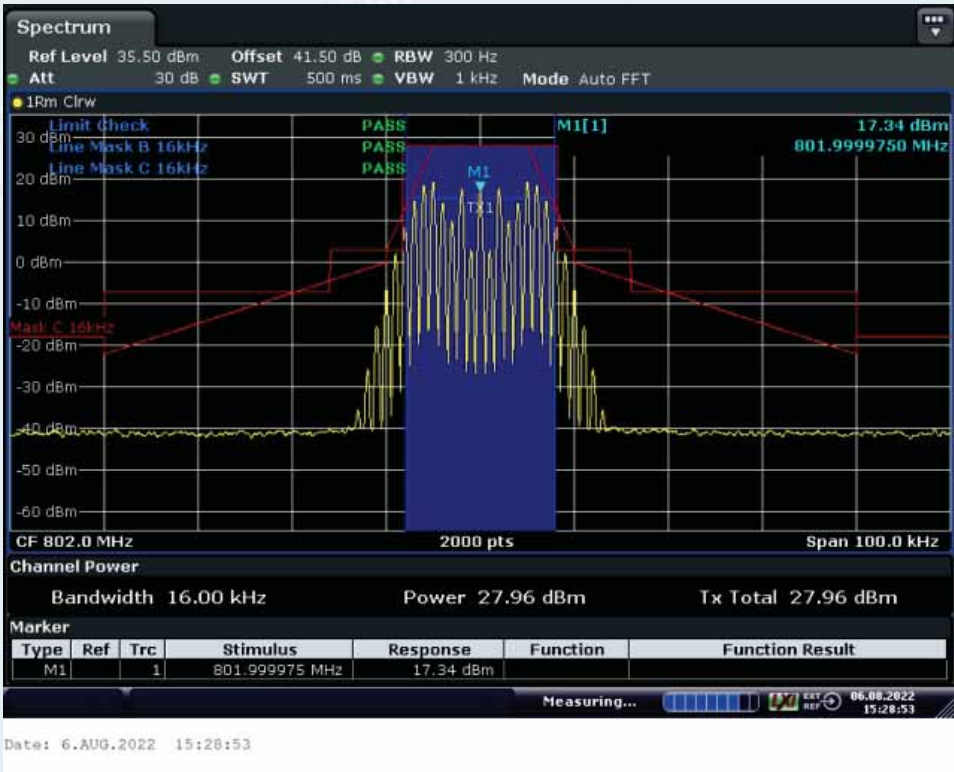


With the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz

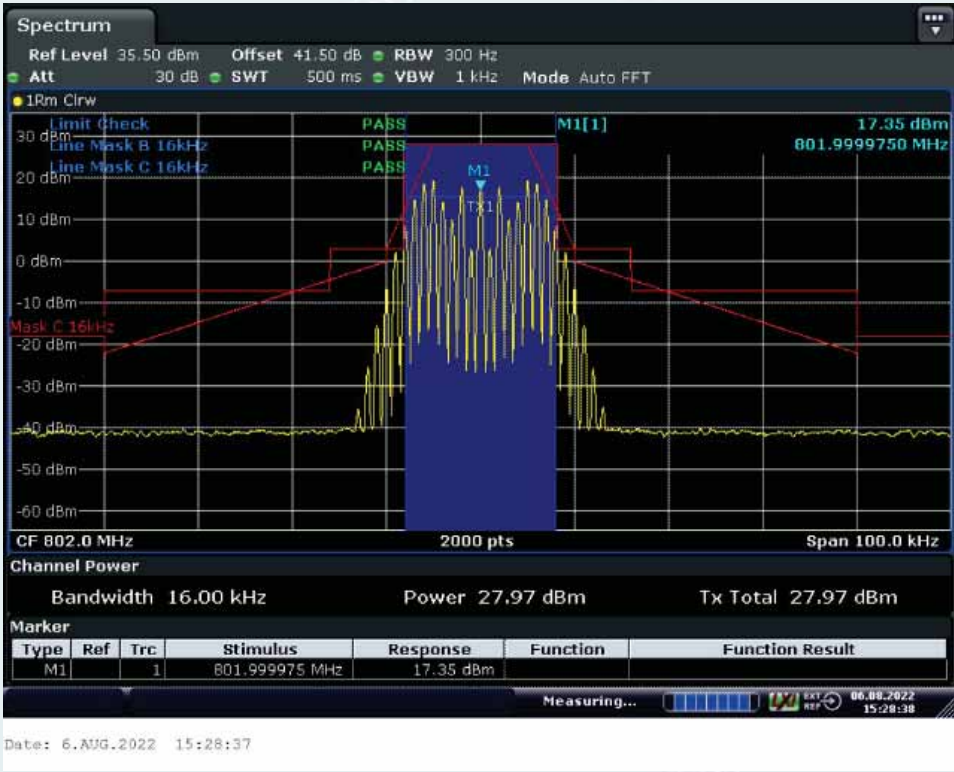


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 772.0MHz

10.5.5.1.1.4.2. Uplink transmit



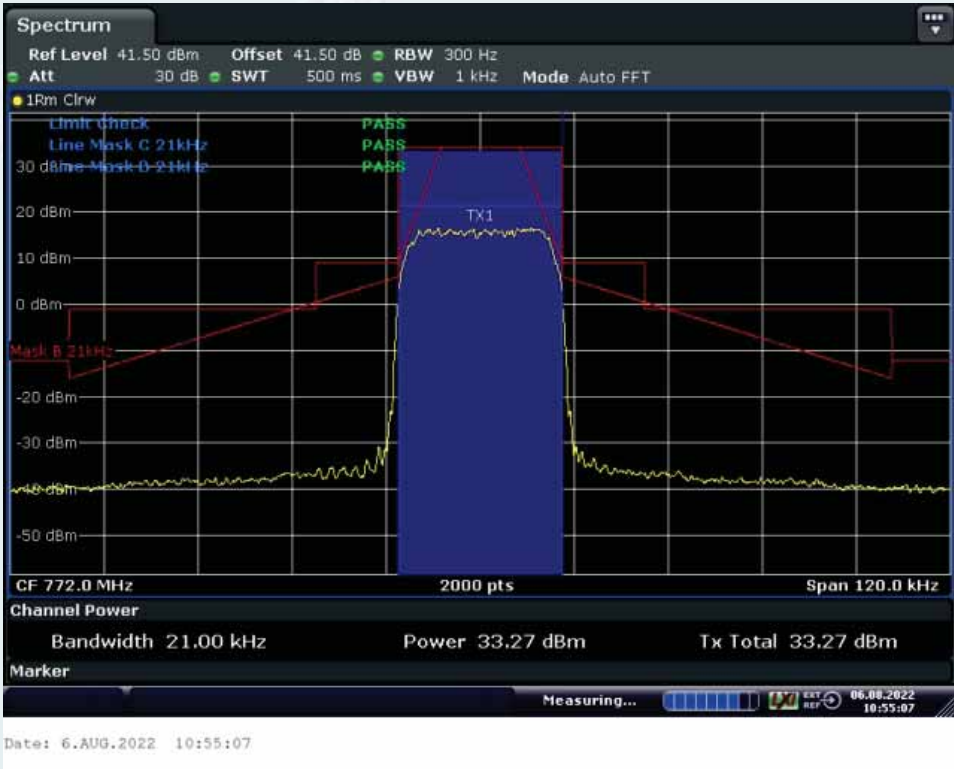
With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz



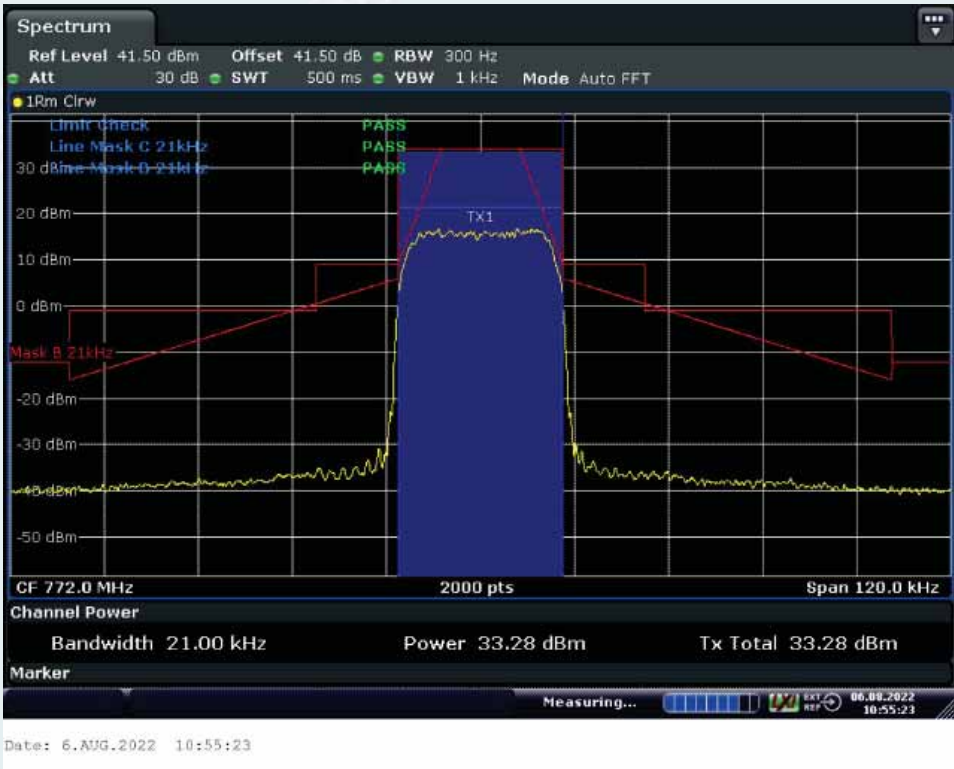
With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

10.5.5.1.1.5. Tetra (Mask B+ Mask C)

10.5.5.1.1.5.1. Downlink transmit

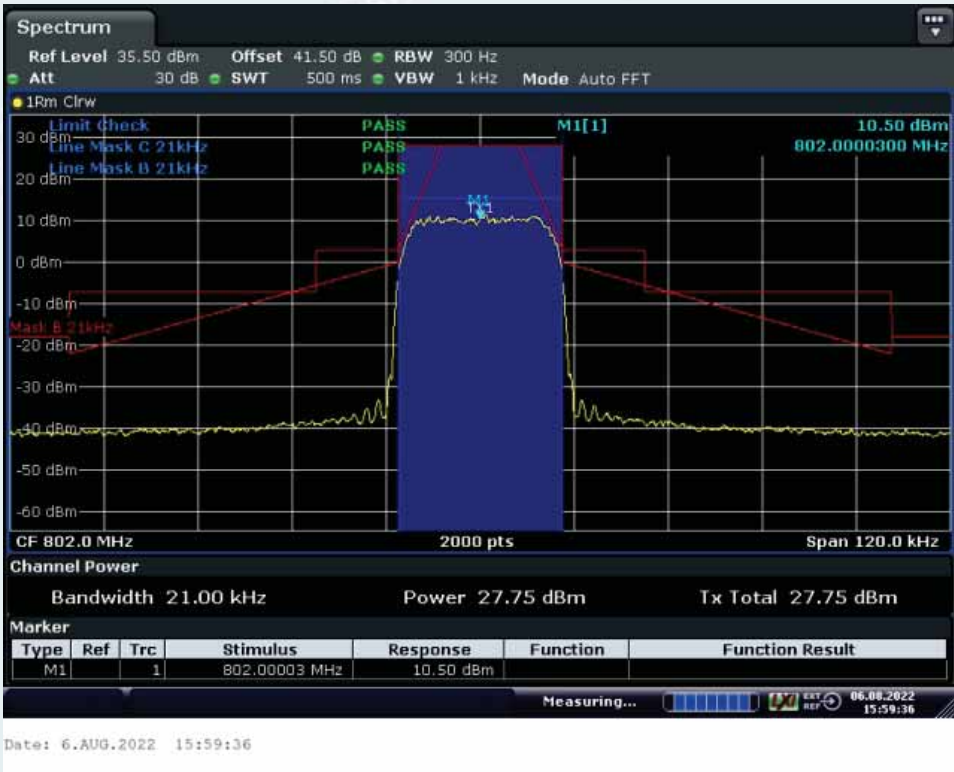


With the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz

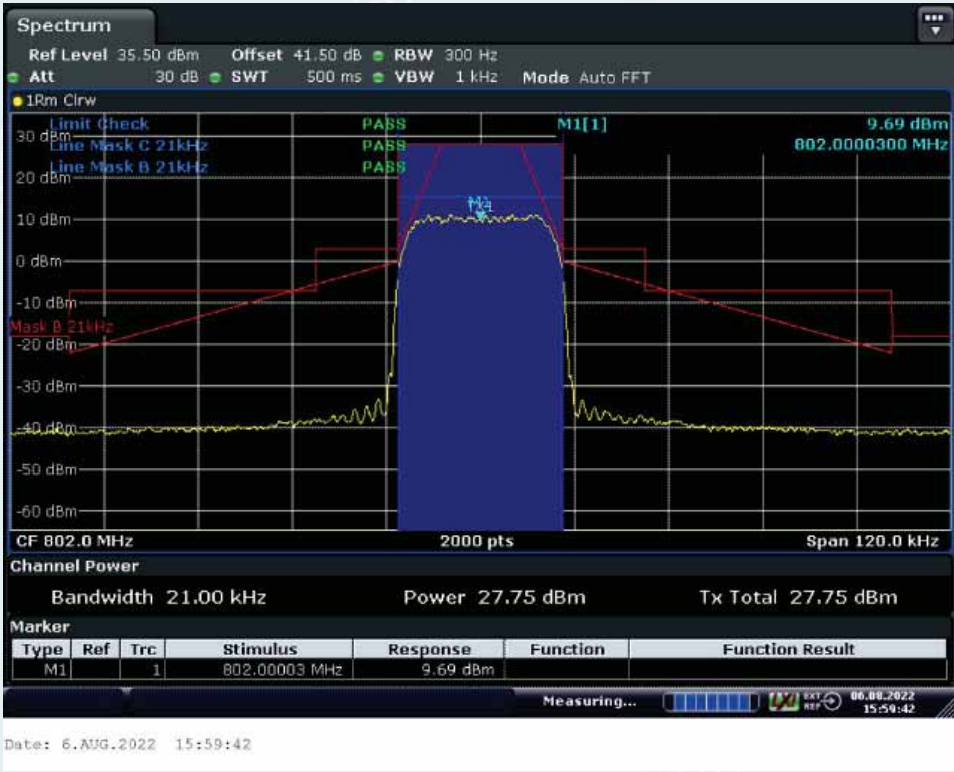


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 772.0MHz

10.5.5.1.1.5.2. Uplink transmit



With the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz

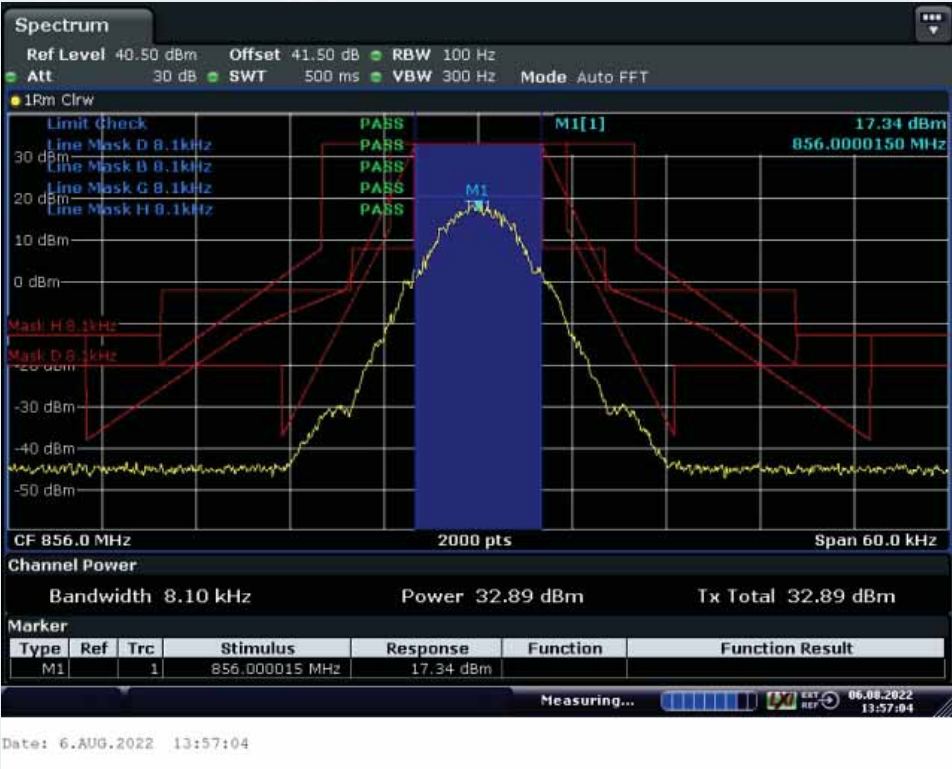


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 802.0MHz

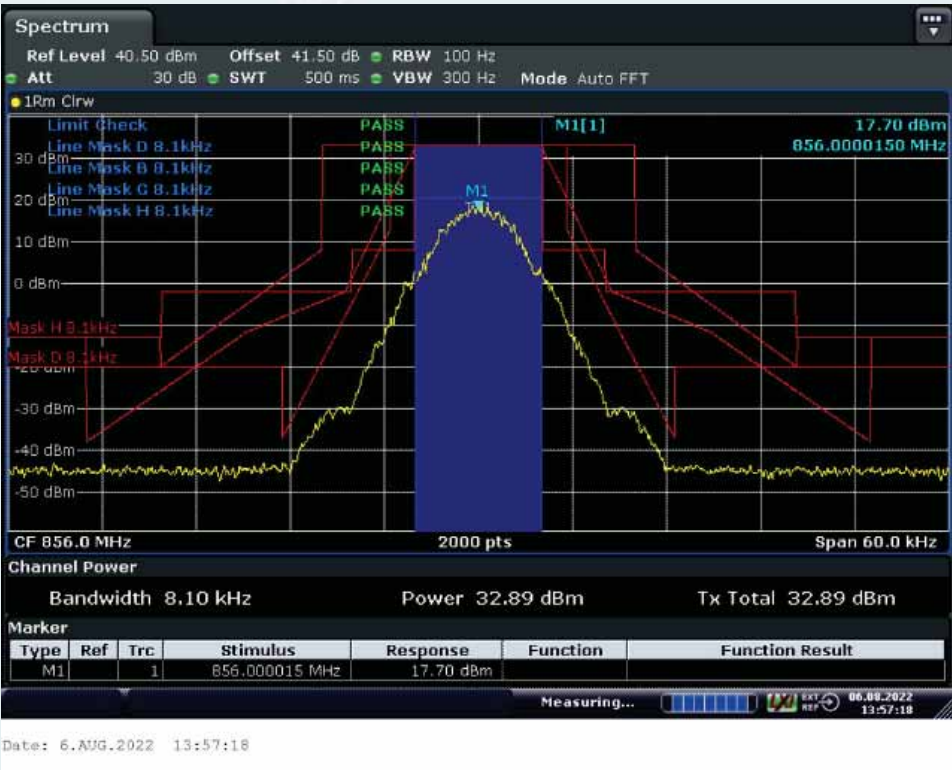
10.5.5.1.2. 800MHz Band

10.5.5.1.2.1. P25 Phase I(C4FM) (Mask B+ D+ G+H)

10.5.5.1.2.1.1. Downlink transmit

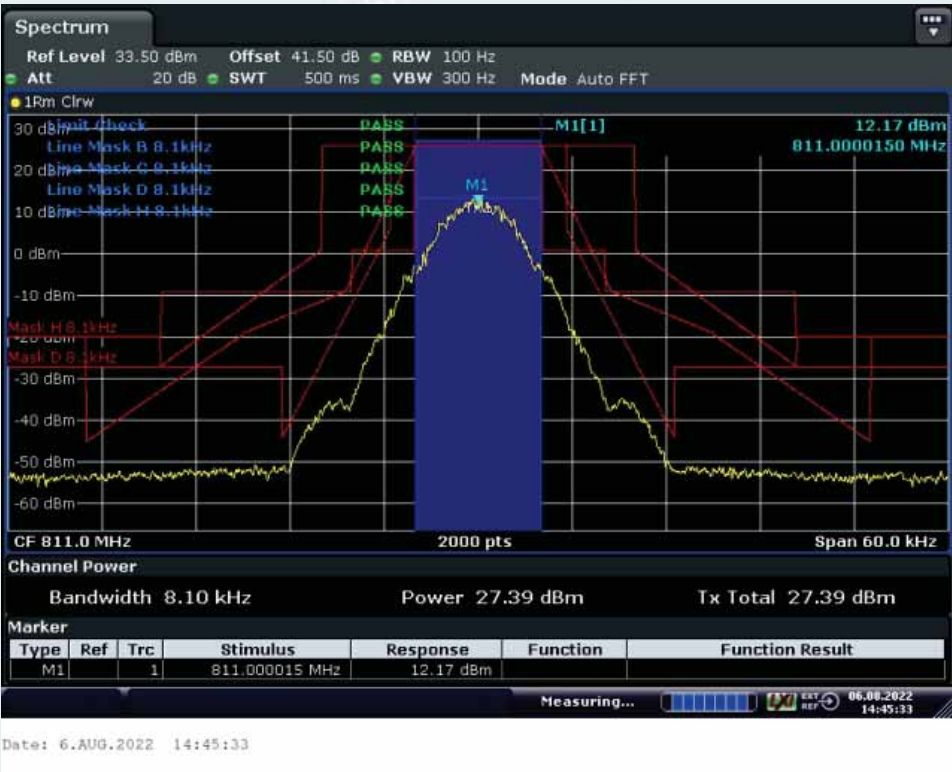


With the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz

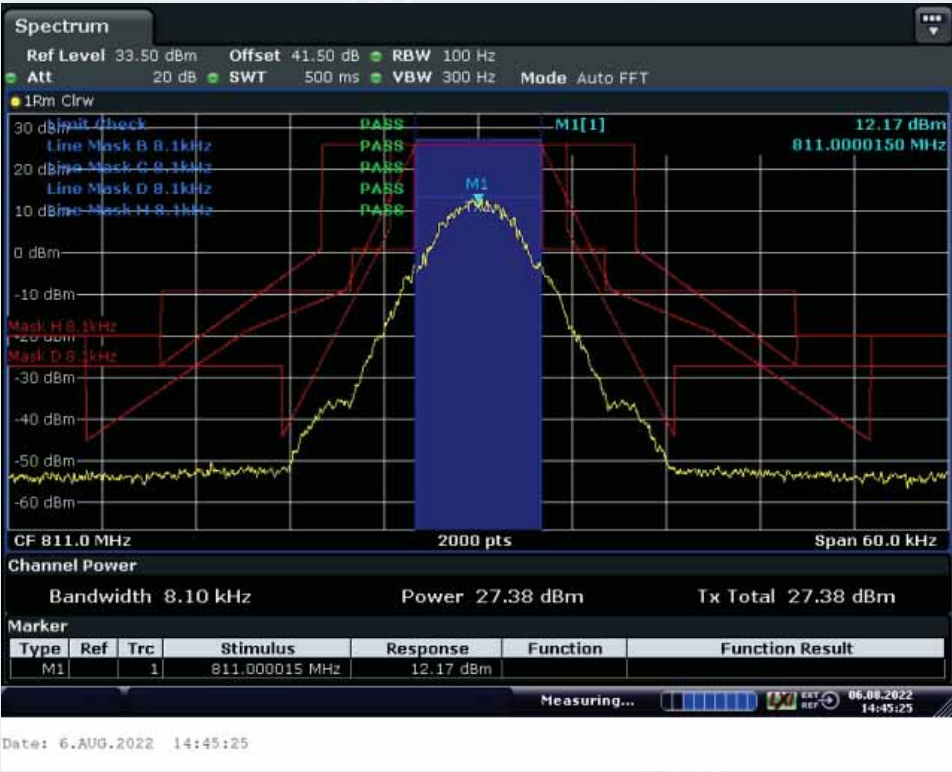


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 856.0MHz

10.5.5.1.2.1.2. Uplink transmit



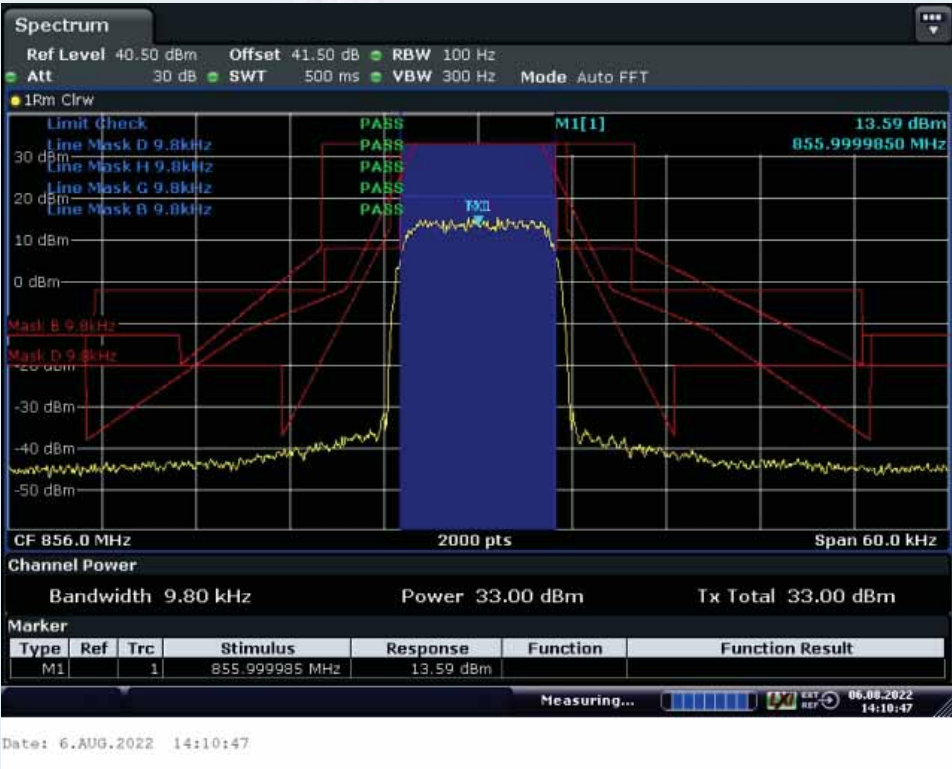
With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



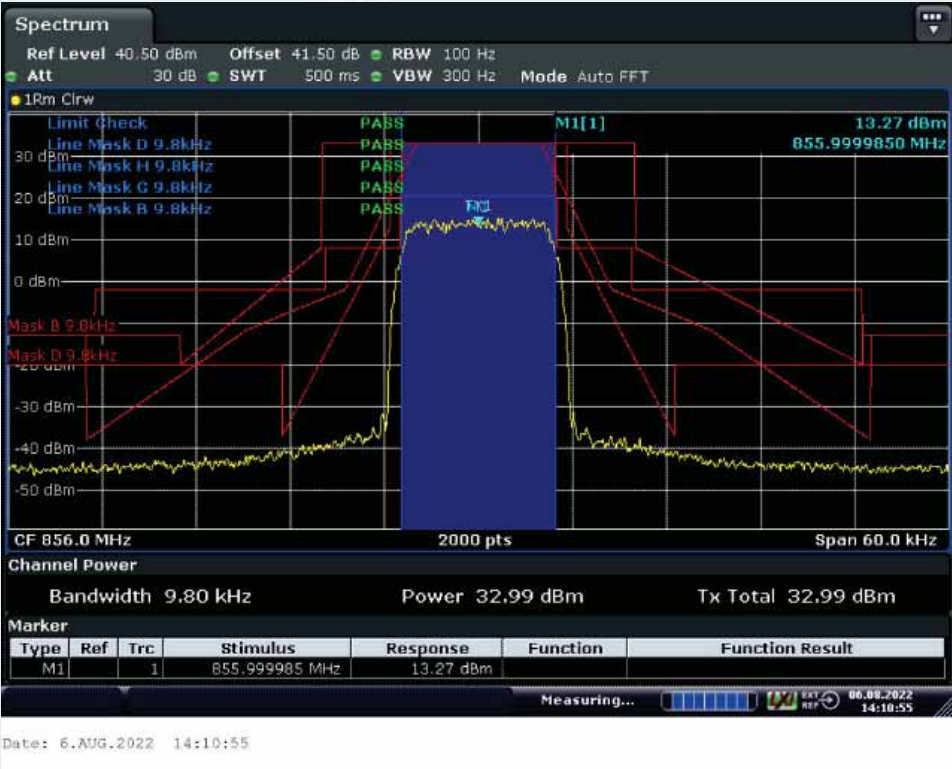
With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.1.2.2. P25 Phase II (H-DQPSK) (Mask B+ D+ G+H)

10.5.5.1.2.2.1. Downlink transmit

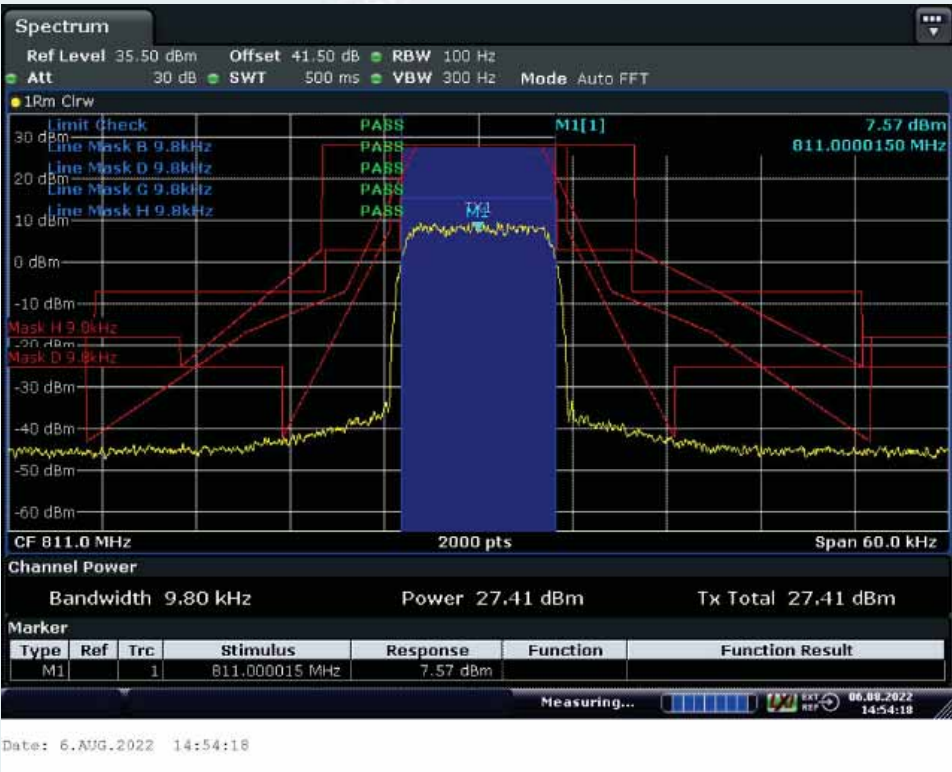


With the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz

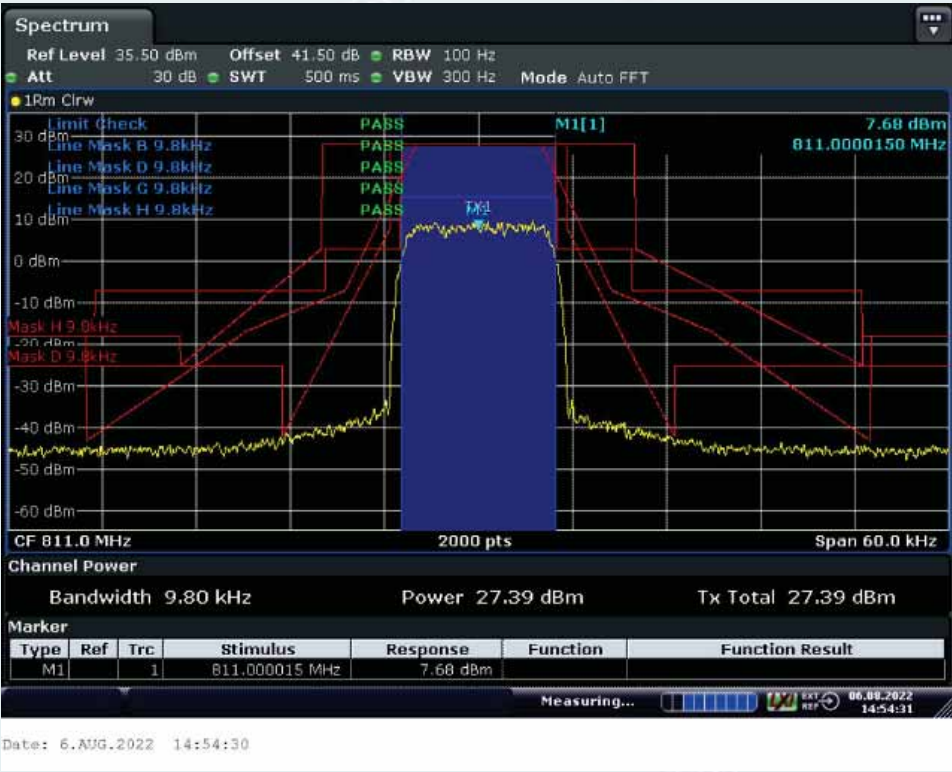


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 856.0MHz

10.5.5.1.2.2.2. Uplink transmit



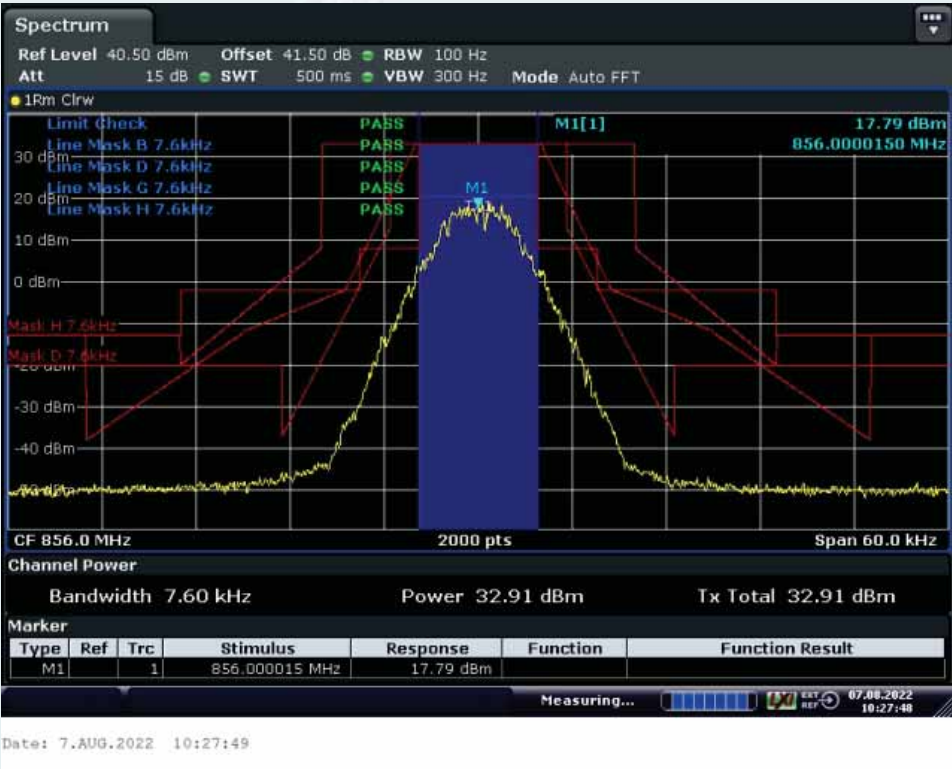
With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



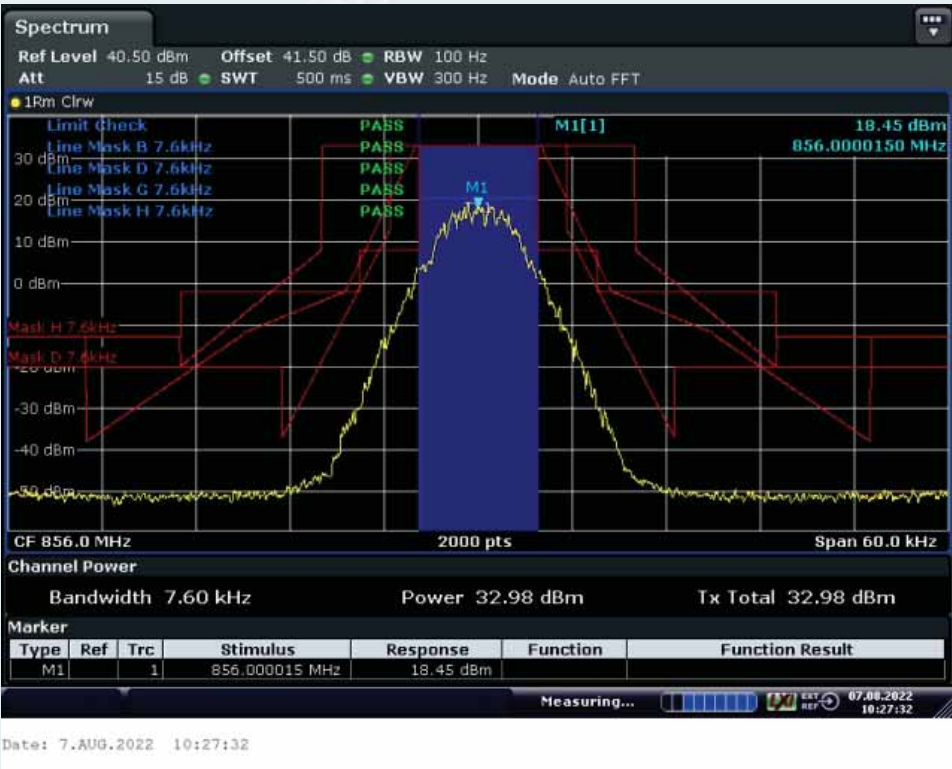
With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.1.2.3. DMR (Mask B+ D+ G+H)

10.5.5.1.2.3.1. Downlink transmit

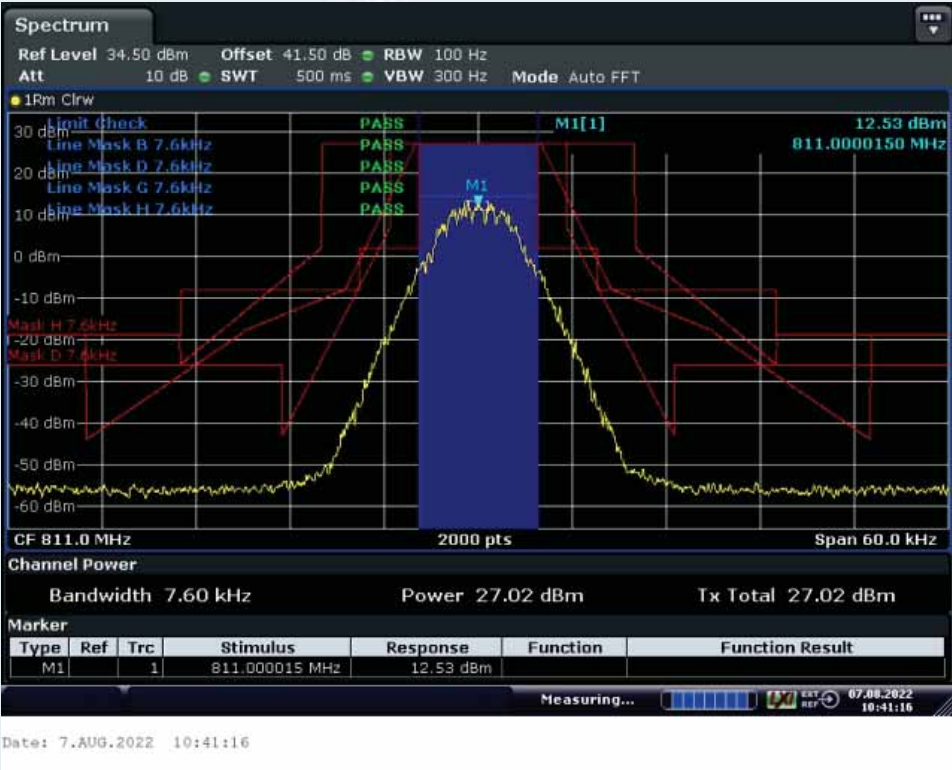


With the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz

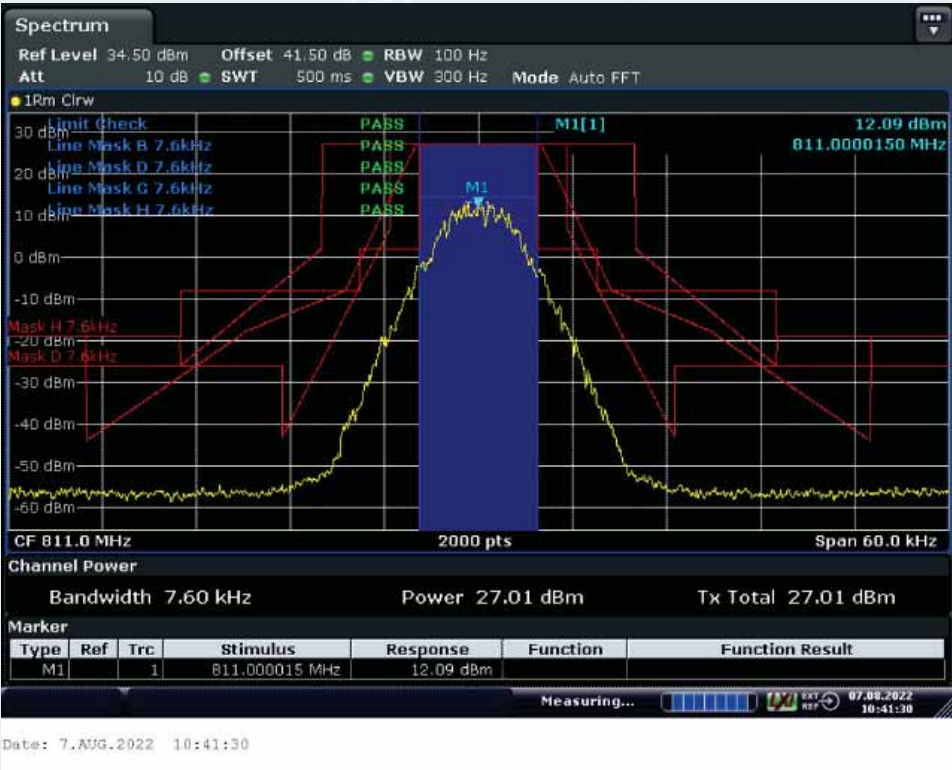


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 856.0MHz

10.5.5.1.2.3.2. Uplink transmit



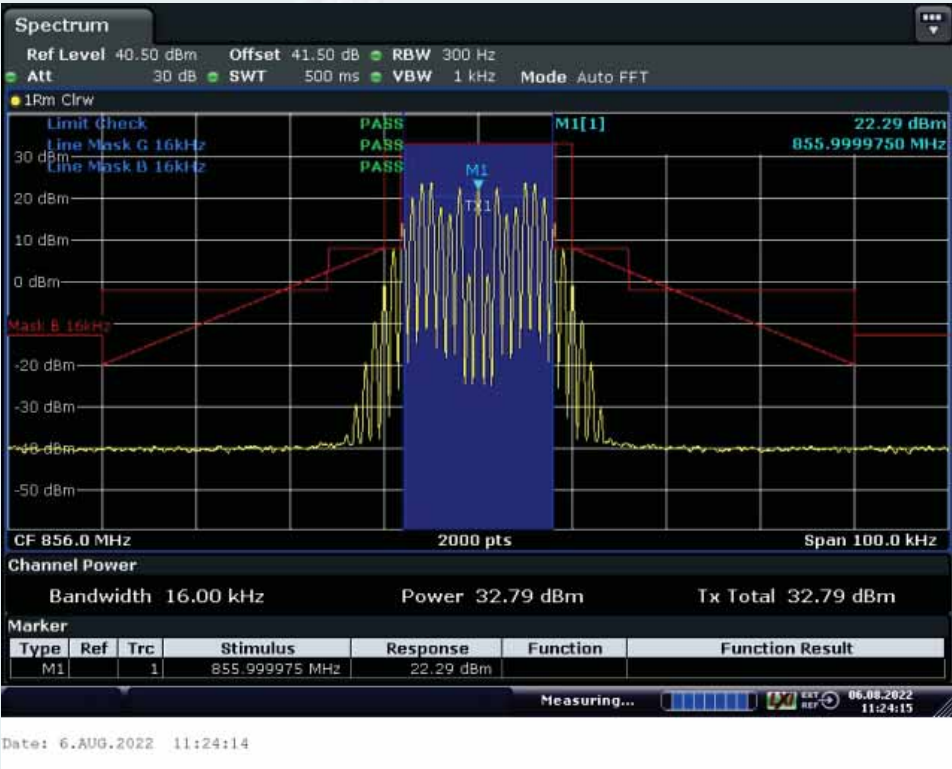
With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



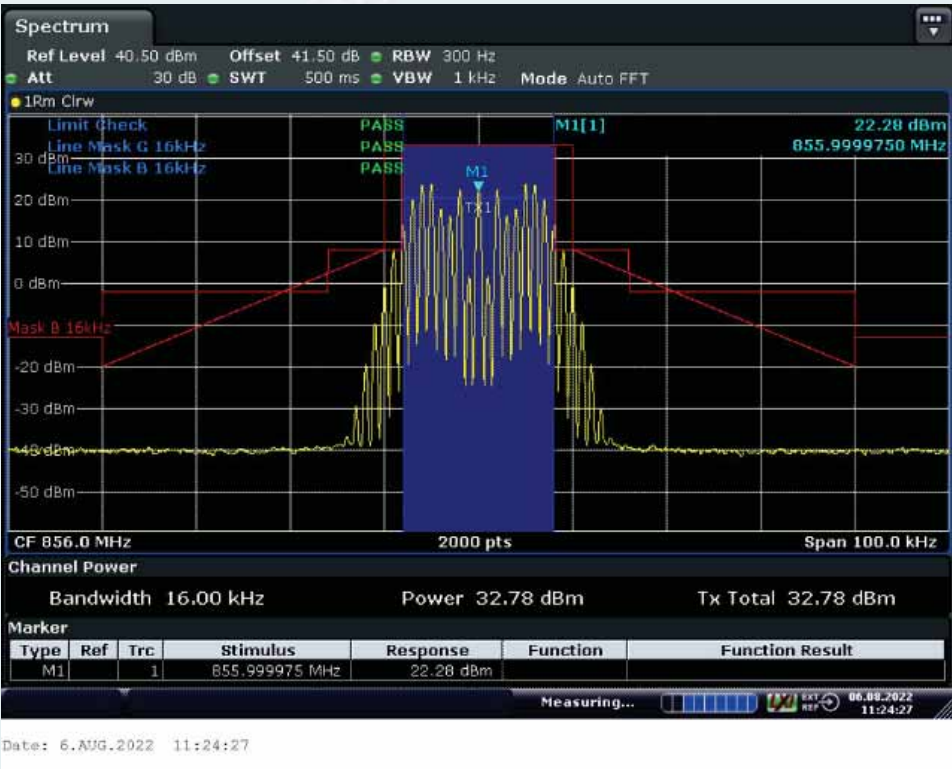
With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.1.2.4. Analog FM (Mask B+ Mask G)

10.5.5.1.2.4.1. Downlink transmit

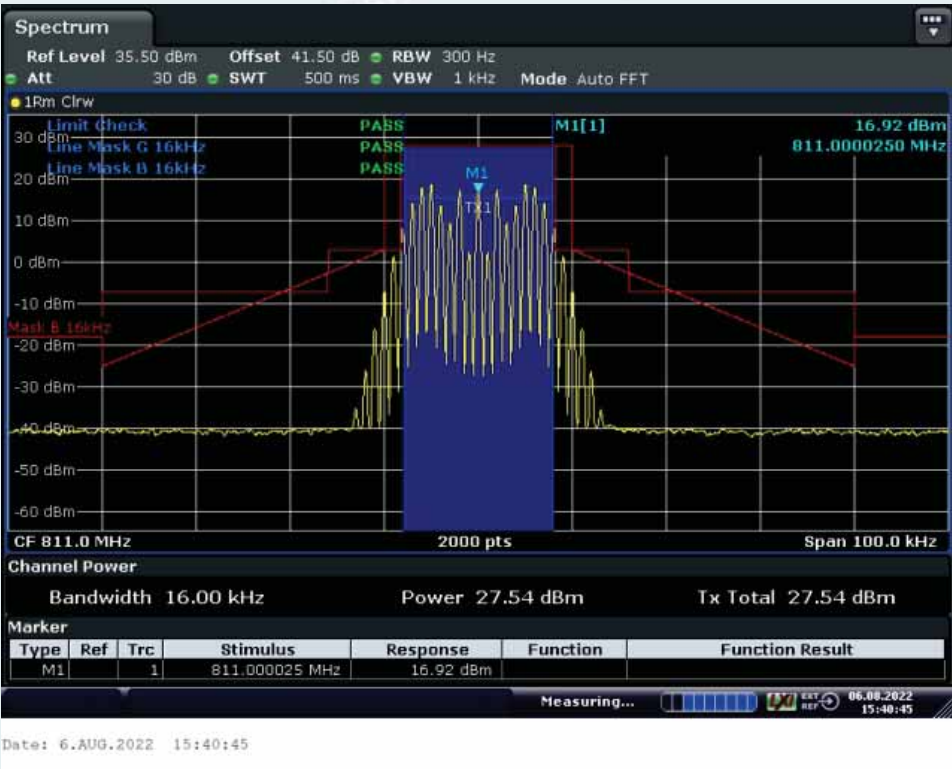


With the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz

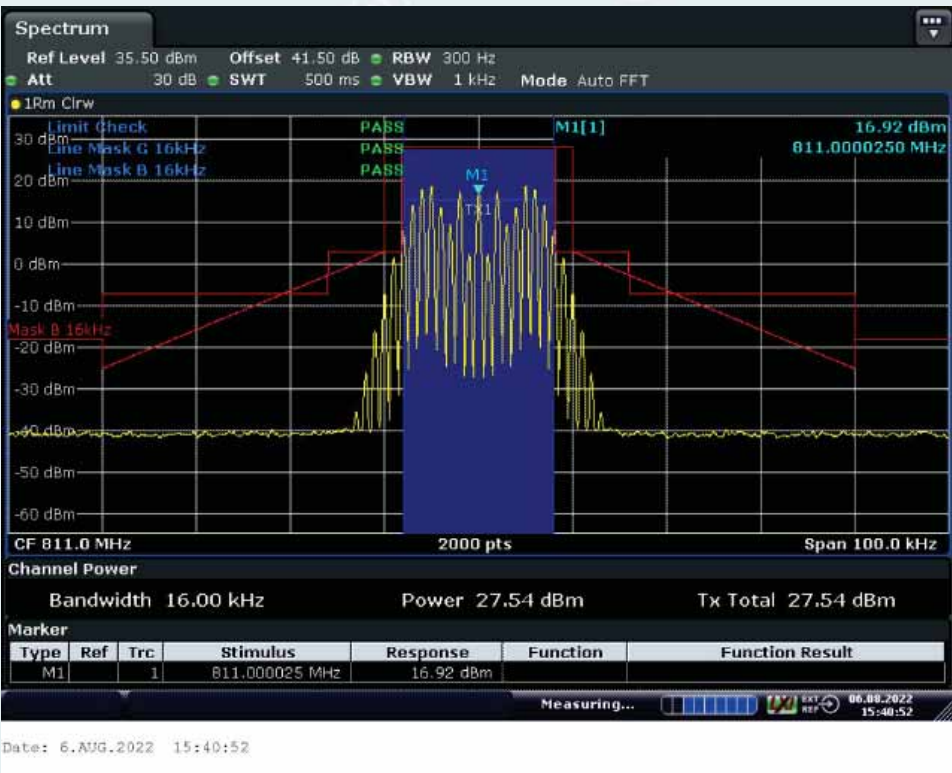


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 856.0MHz

10.5.5.1.2.4.2. Uplink transmit

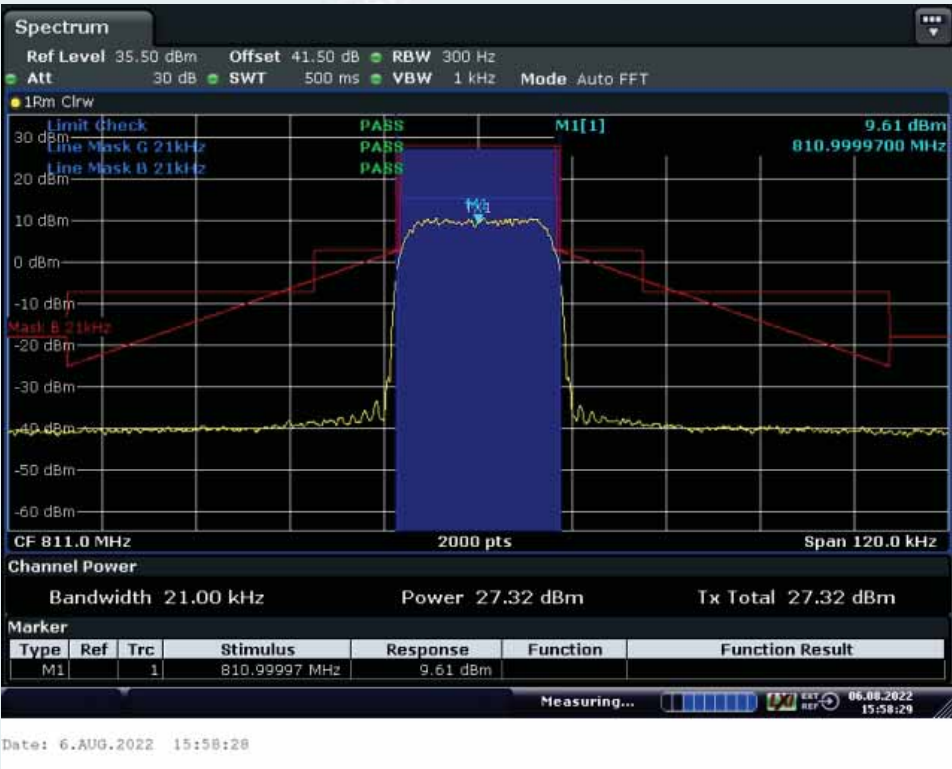


With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz

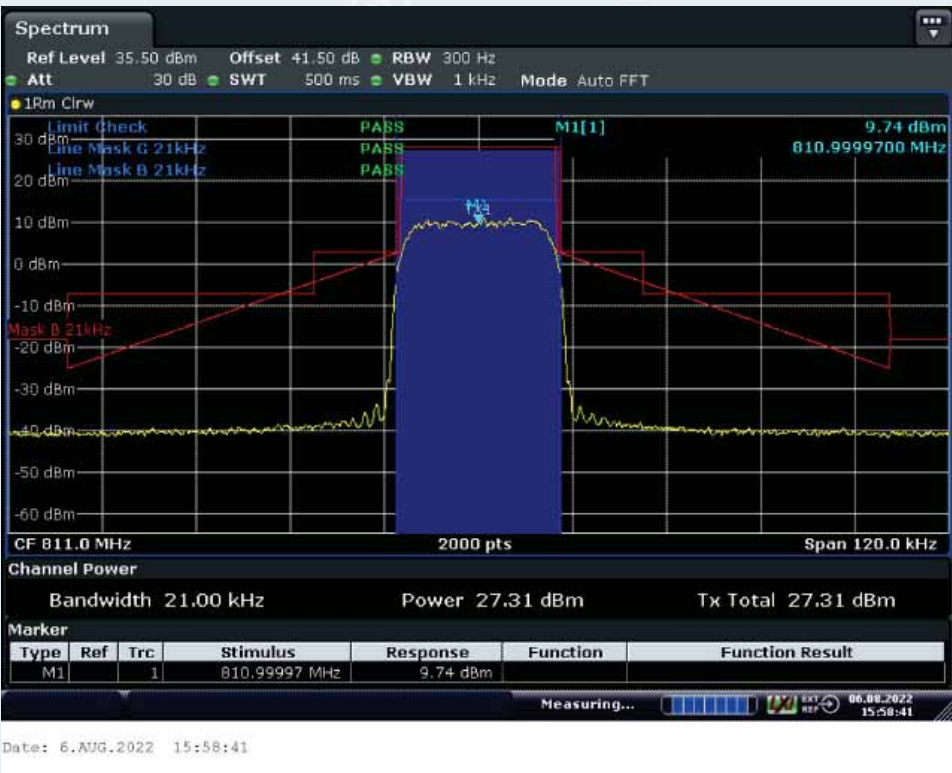


With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.1.2.5.2. Uplink transmit



With the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



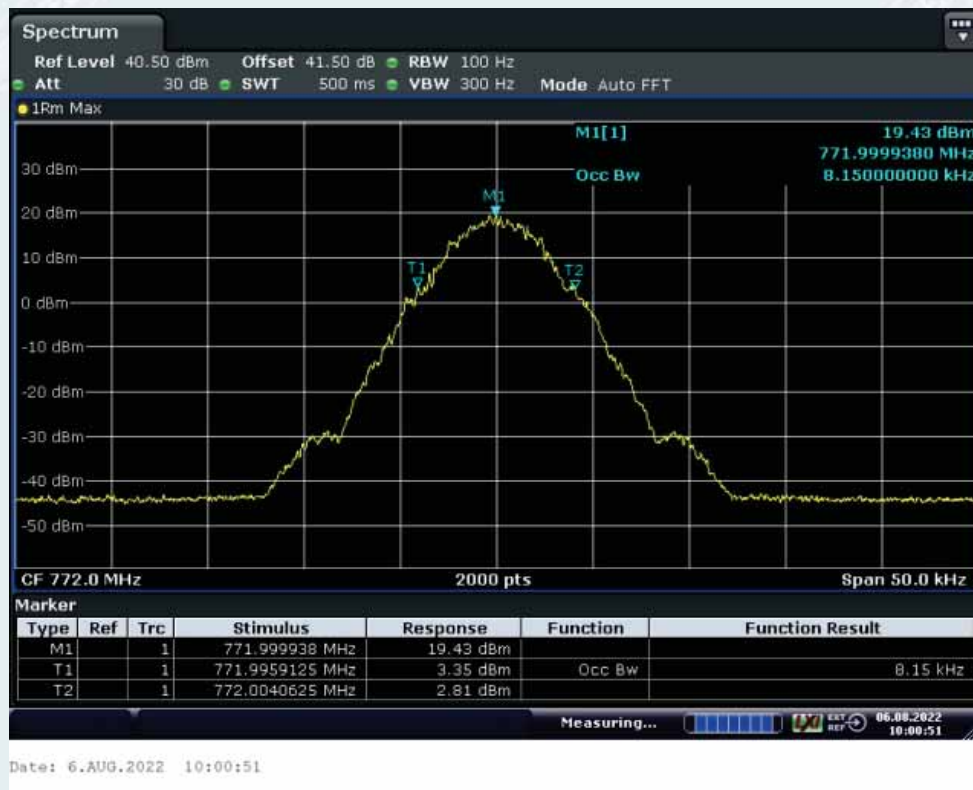
With the input signal amplitude set 3 dB above the AGC threshold
Middle Frequency: 811.0MHz

10.5.5.2. Occupied bandwidth

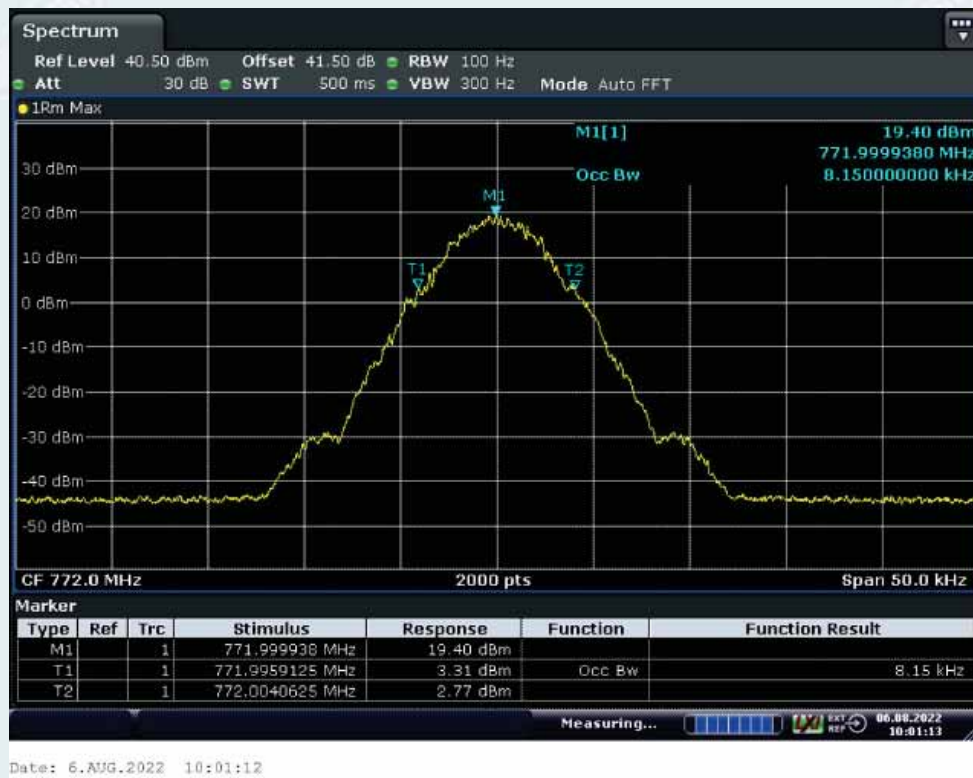
10.5.5.2.1. 700MHz Band

10.5.5.2.1.1. P25 Phase I(C4FM)

10.5.5.2.1.1.1. Downlink



Middle Frequency: 772.0MHz, Output occupied BW(AGC)



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.1.2. Uplink



Middle Frequency: 802.0MHz, Output occupied BW(AGC)



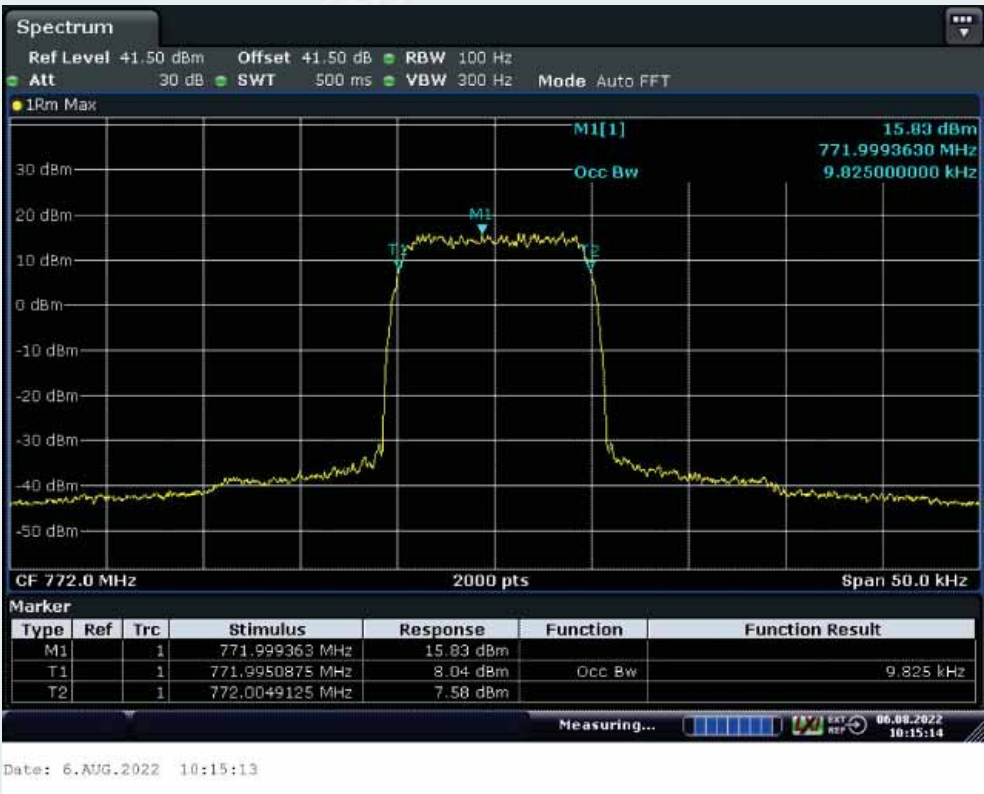
Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.2. P25 Phase II(H-DQPSK)

10.5.5.2.1.2.1. Downlink



Middle Frequency: 772.0MHz, Output occupied BW(AGC)



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.2.2. Uplink



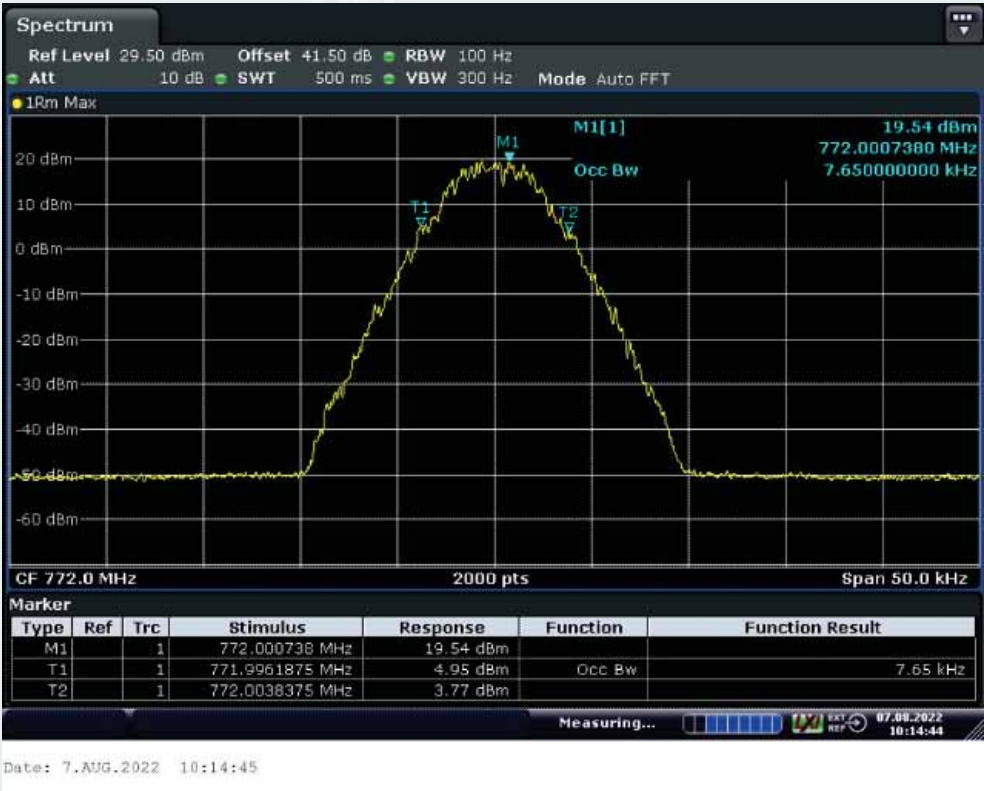
Middle Frequency: 802.0MHz, Output occupied BW(AGC)



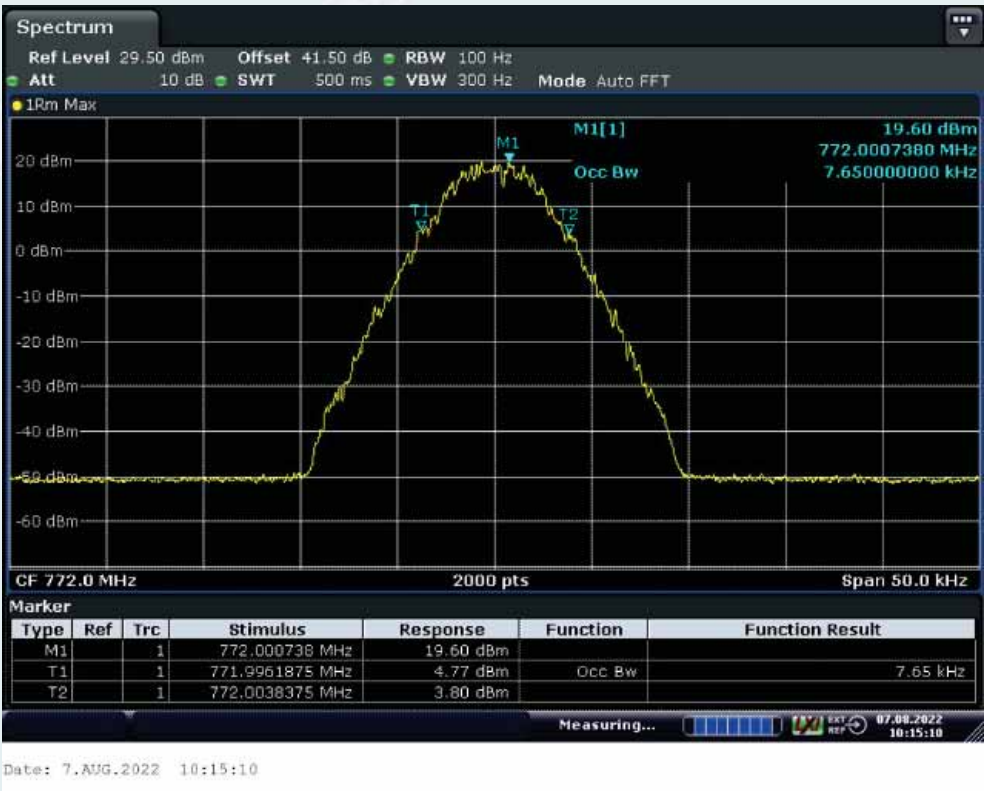
Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.3. DMR

10.5.5.2.1.3.1. Downlink

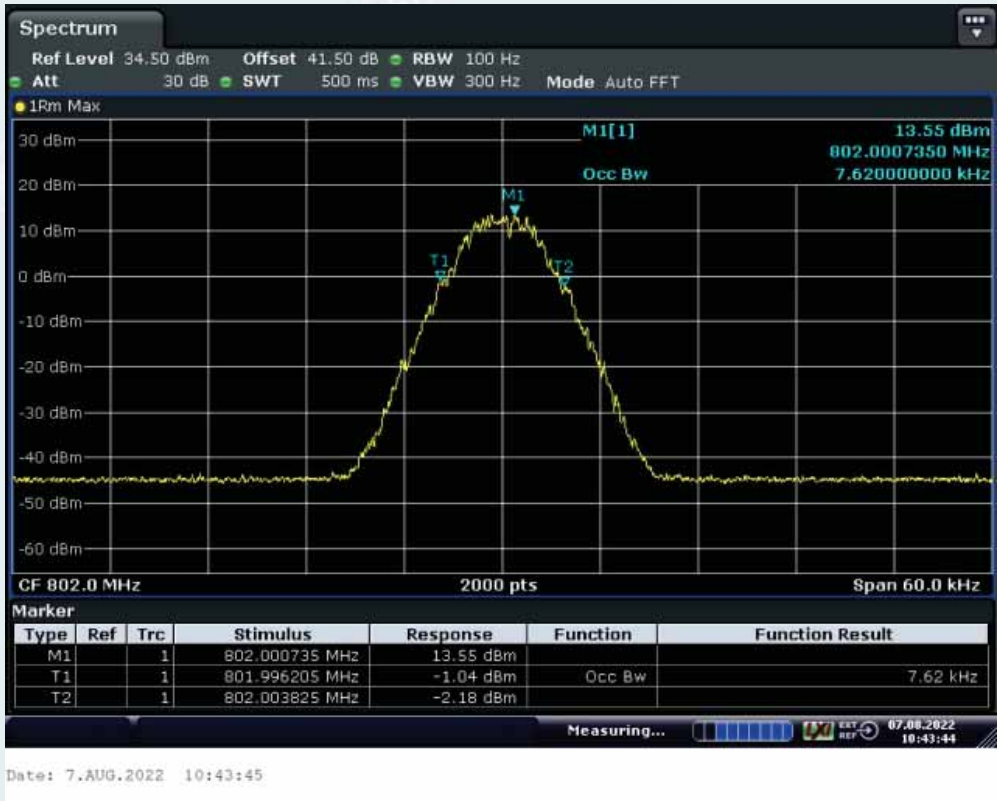


Middle Frequency: 772.0MHz, Output occupied BW(AGC)

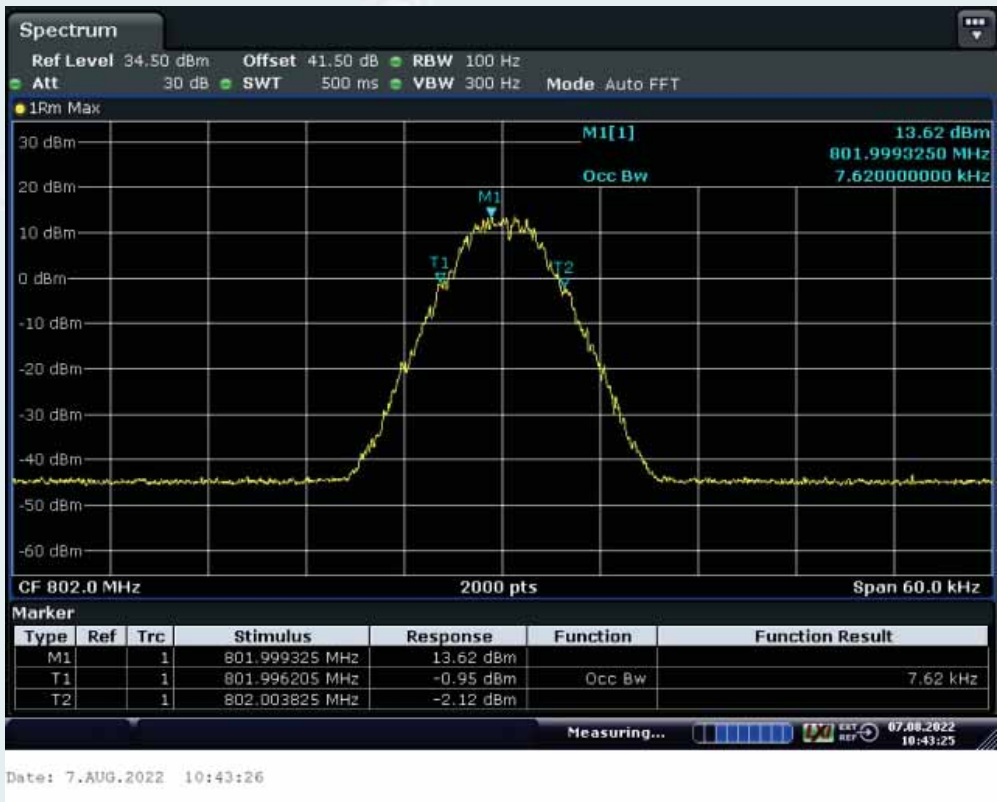


Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.3.2. Uplink



Middle Frequency: 802.0MHz, Output occupied BW(AGC)



Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.4. Analog FM

10.5.5.2.1.4.1. Downlink



Middle Frequency: 772.0MHz, Output occupied BW(AGC)



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.4.2. Uplink



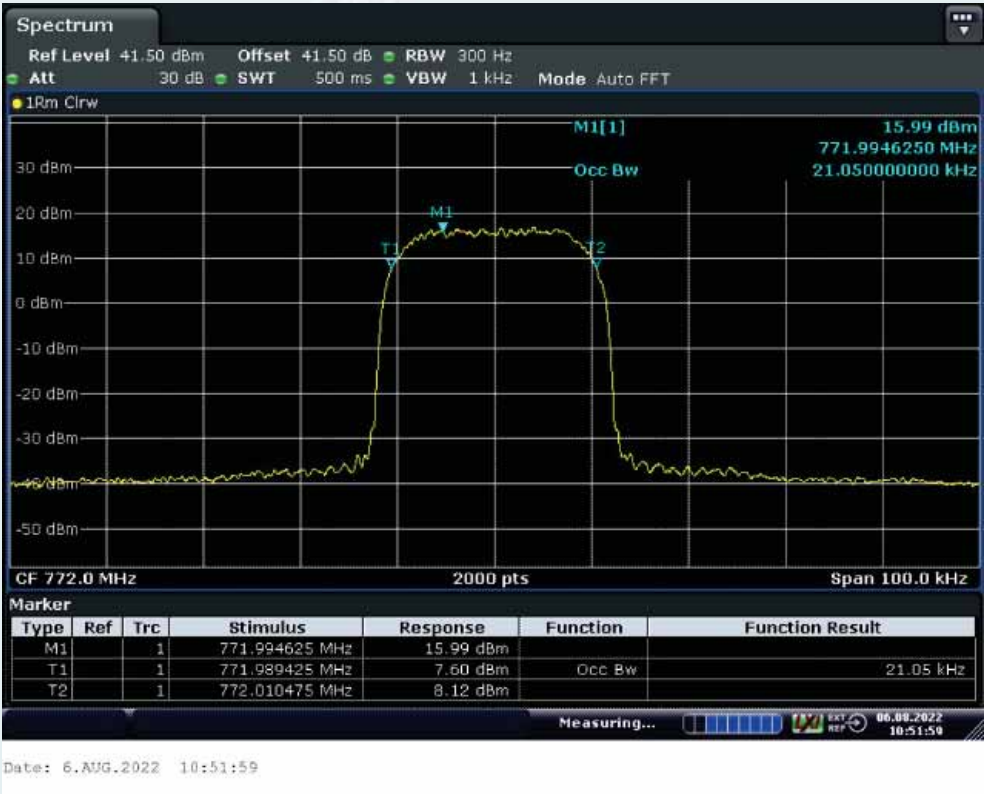
Middle Frequency: 802.0MHz, Output occupied BW(AGC)



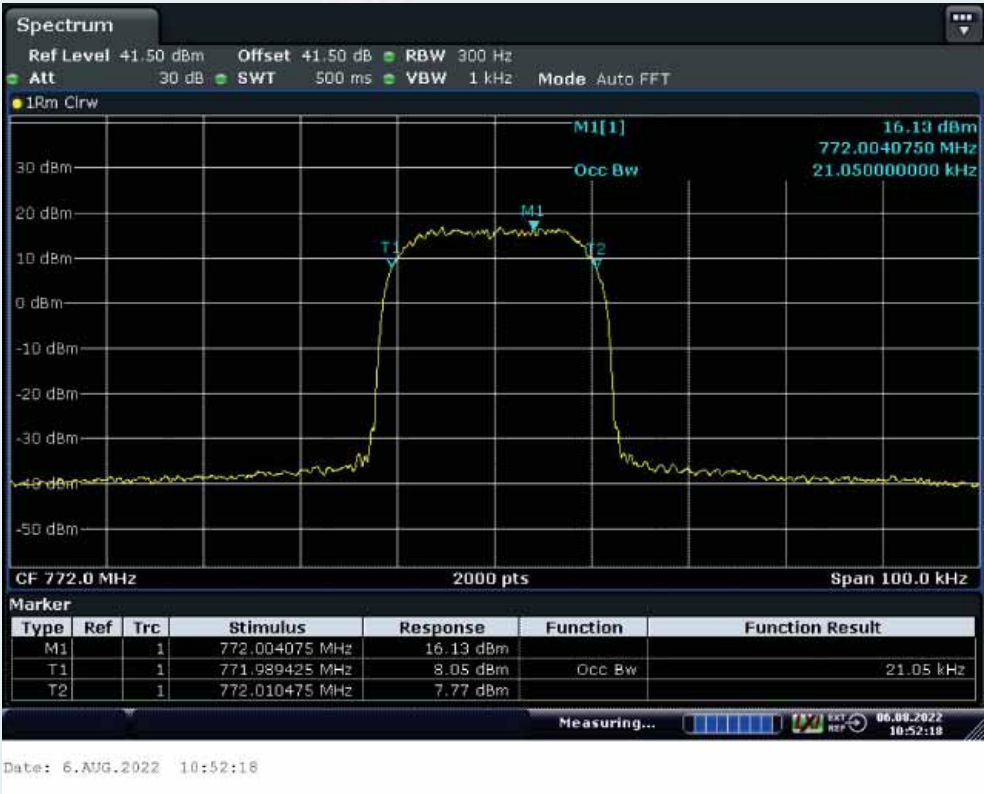
Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.5. Tetra

10.5.5.2.1.5.1. Downlink



Middle Frequency: 772.0MHz, Output occupied BW(AGC)



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.5.2. Uplink



Middle Frequency: 802.0MHz, Output occupied BW(AGC)



Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.1.2. Uplink



Middle Frequency: 811.0MHz, Output occupied BW(AGC)



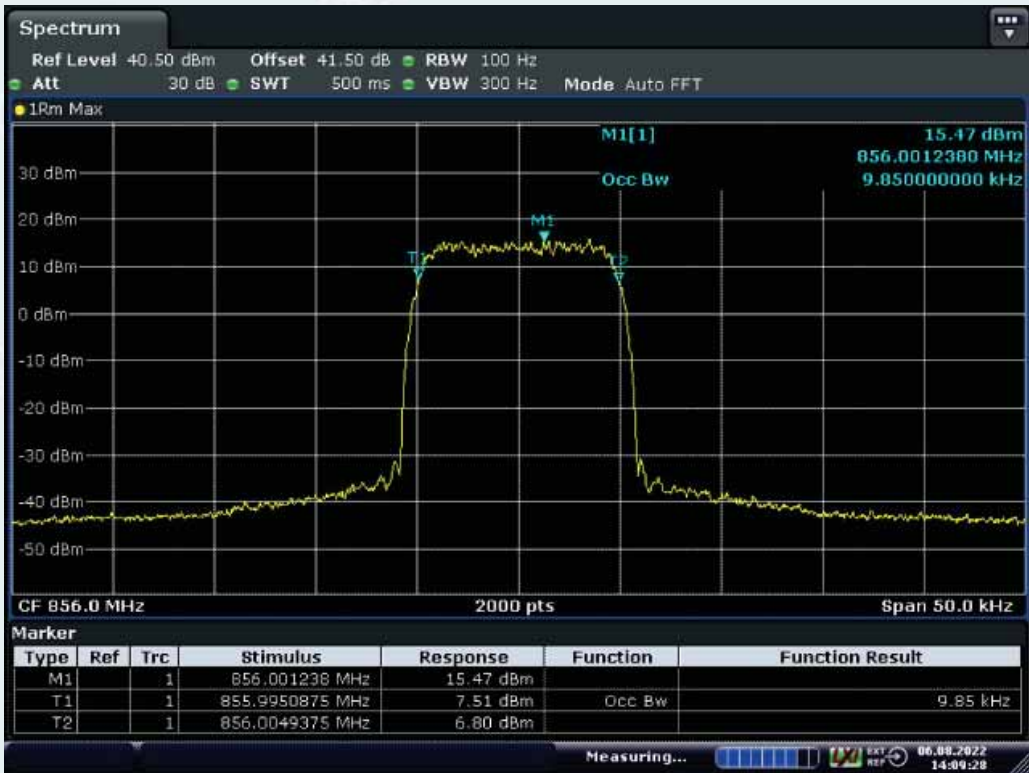
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.2. P25 Phase II(H-DQPSK)

10.5.5.2.2.2.1. Downlink

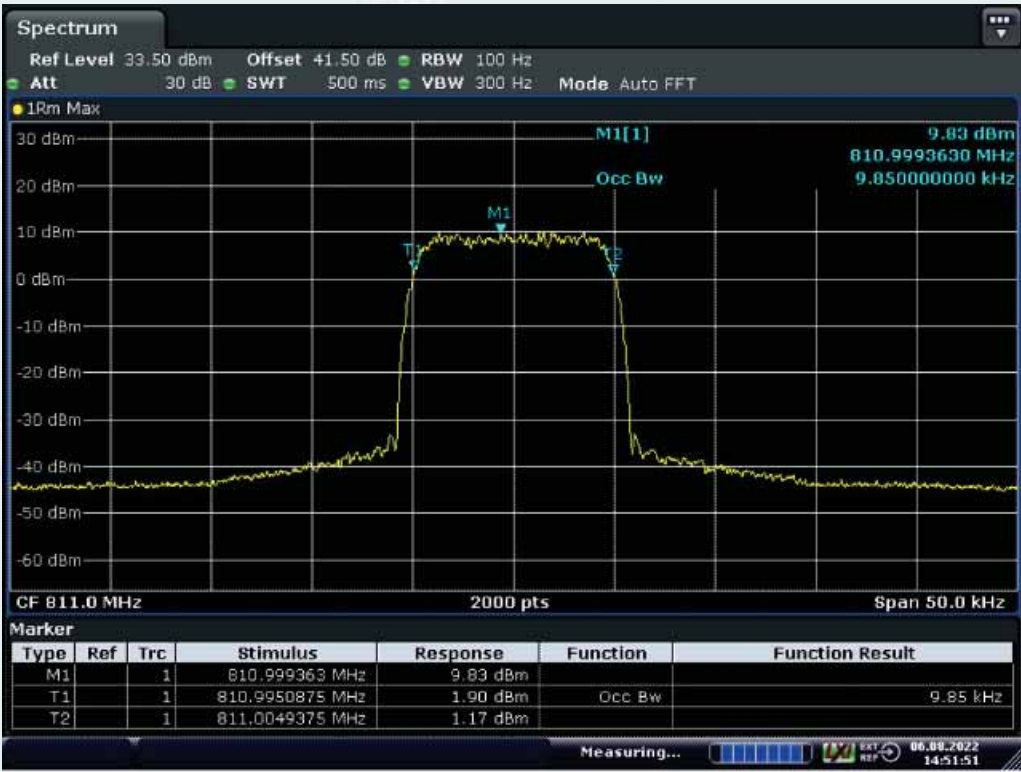


Middle Frequency: 856.0MHz, Output occupied BW(AGC)

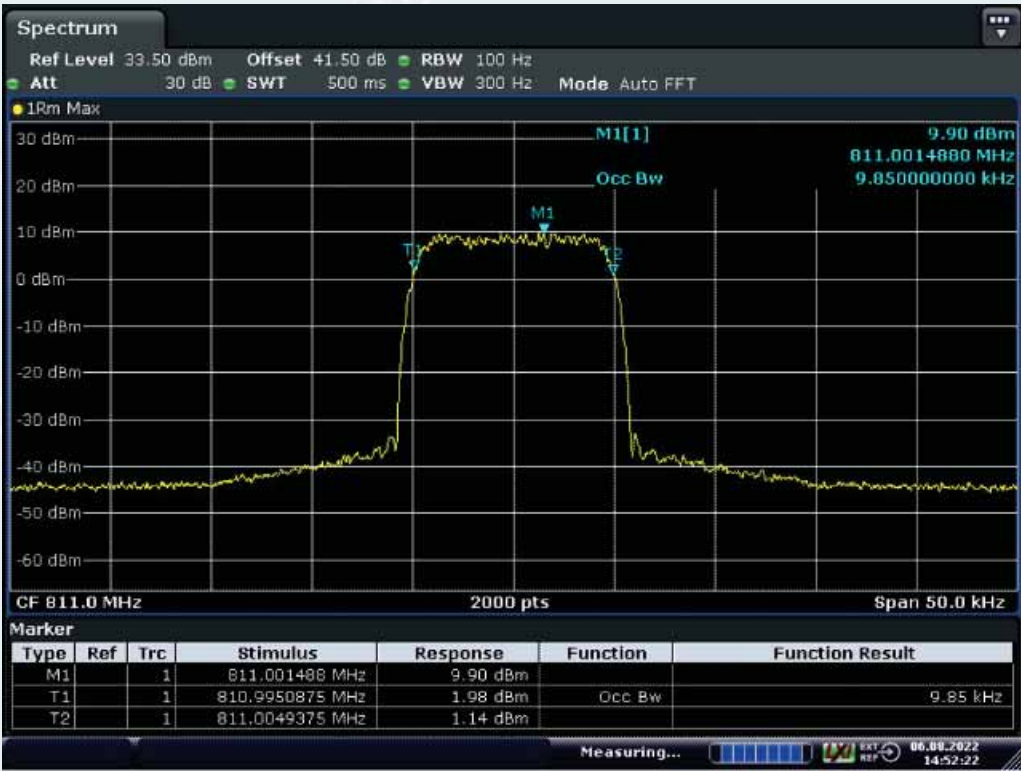


Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.2. Uplink



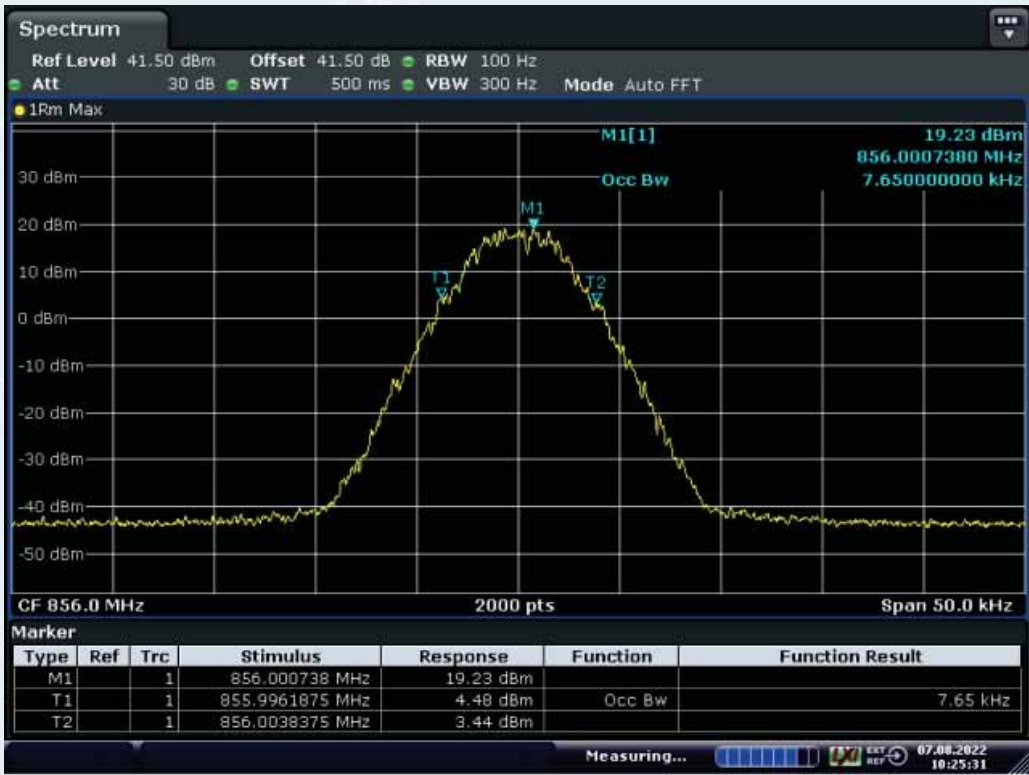
Middle Frequency: 811.0MHz, Output occupied BW(AGC)



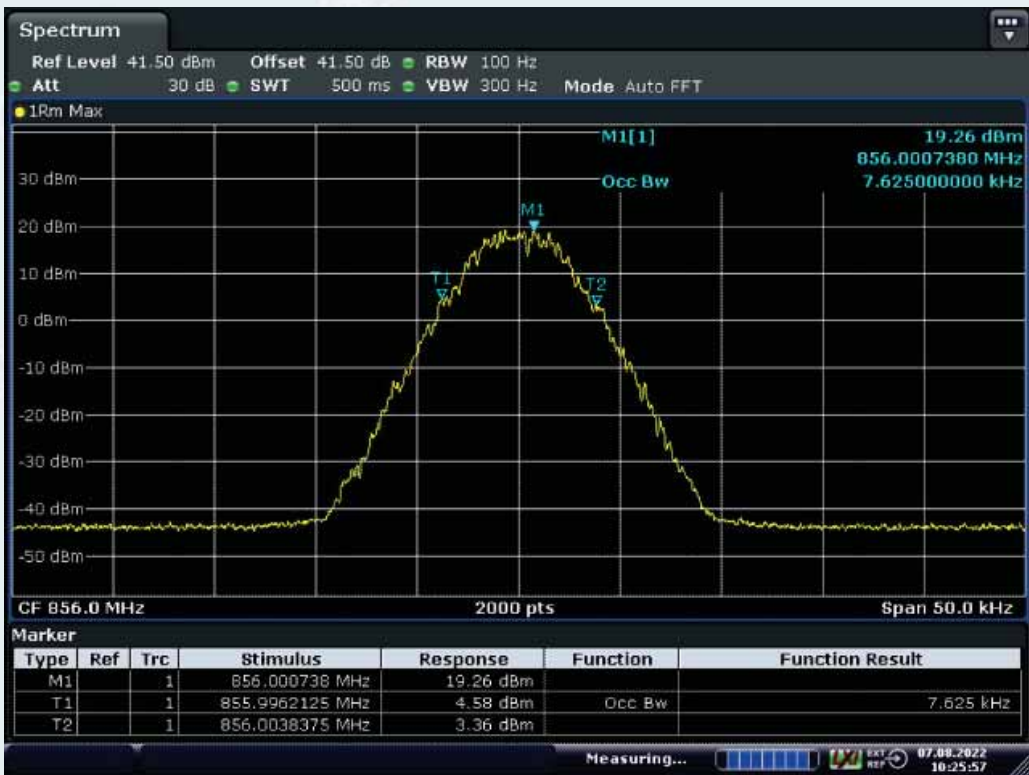
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.3. DMR

10.5.5.2.2.3.1. Downlink

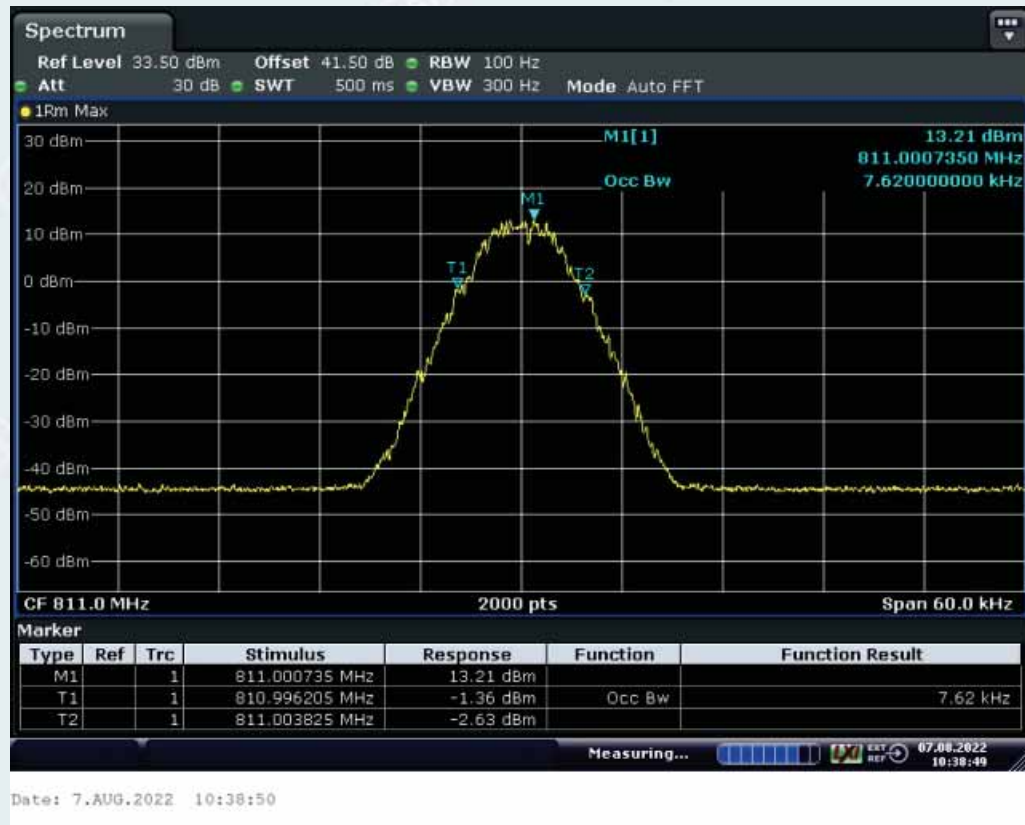


Middle Frequency: 856.0MHz, Output occupied BW(AGC)

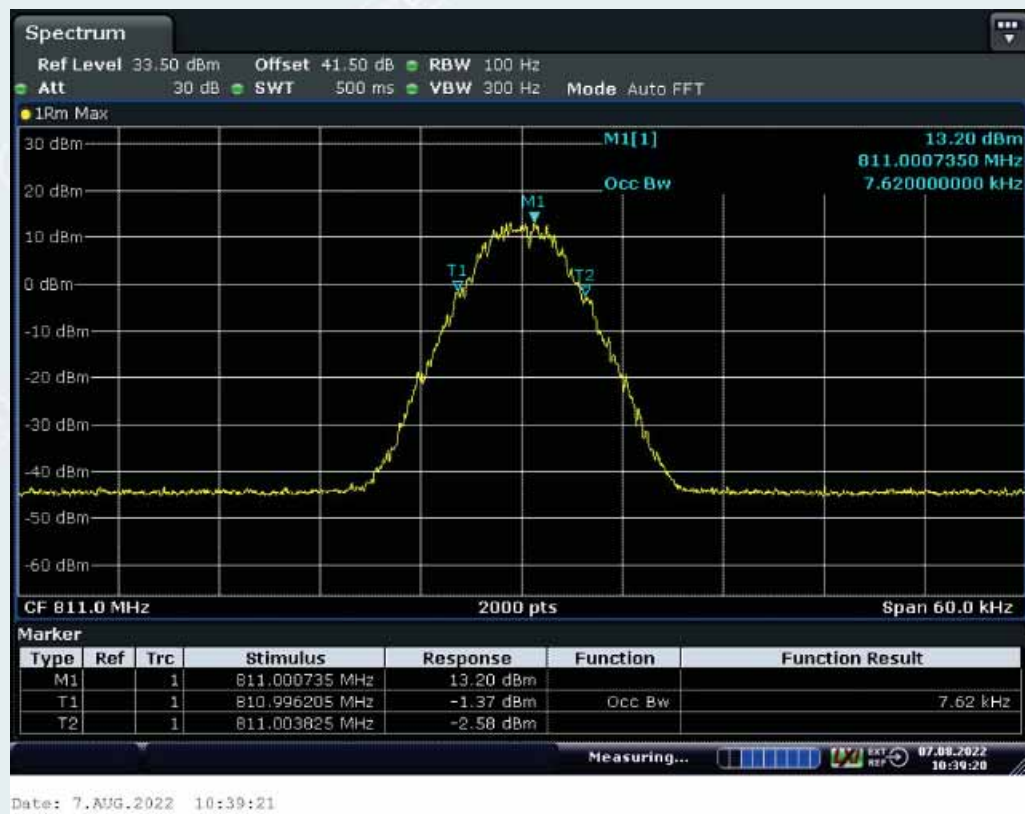


Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.3.2. Uplink



Middle Frequency: 811.0MHz, Output occupied BW(AGC)



Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.4. Analog FM

10.5.5.2.2.4.1. Downlink



Middle Frequency: 856.0MHz, Output occupied BW(AGC)



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.4.2. Uplink



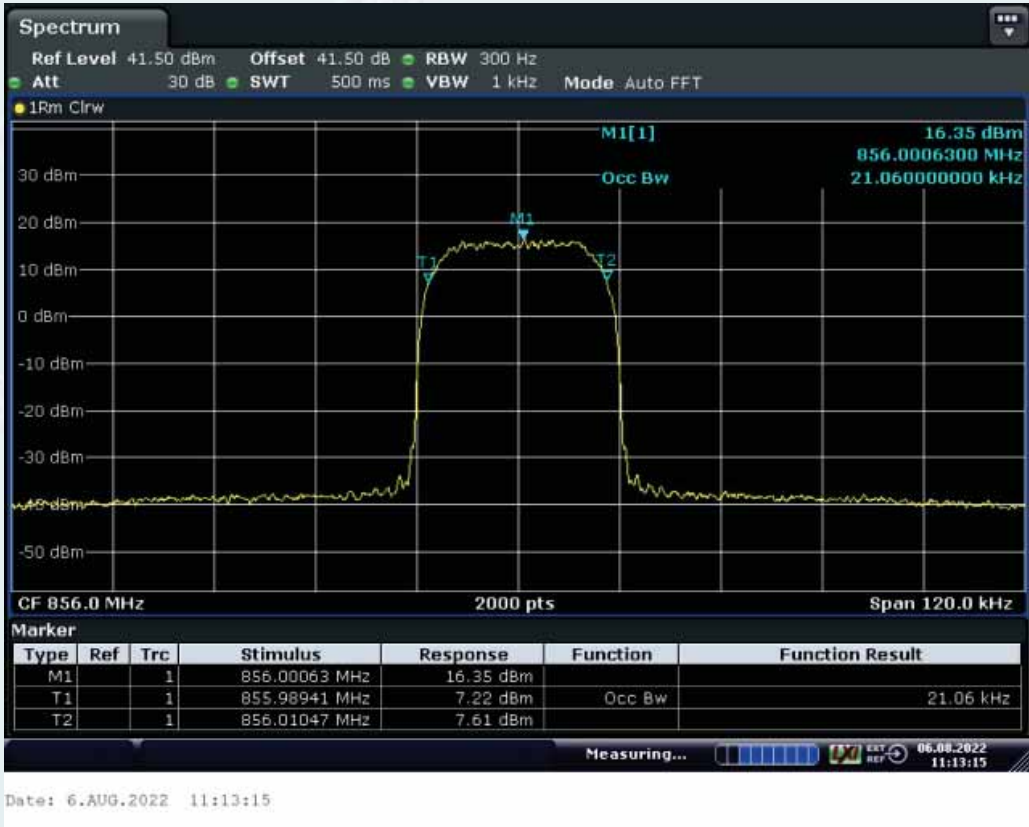
Middle Frequency: 811.0MHz, Output occupied BW(AGC)



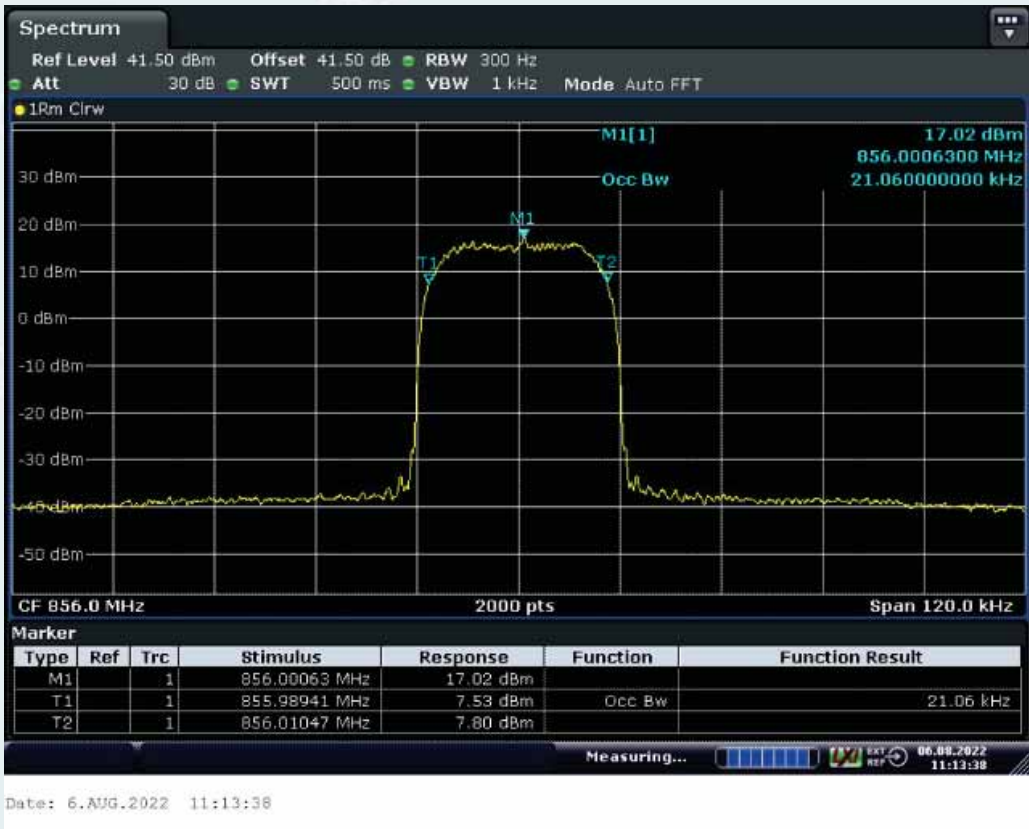
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.5. Tetra

10.5.5.2.2.5.1. Downlink



Middle Frequency: 856.0MHz, Output occupied BW(AGC)

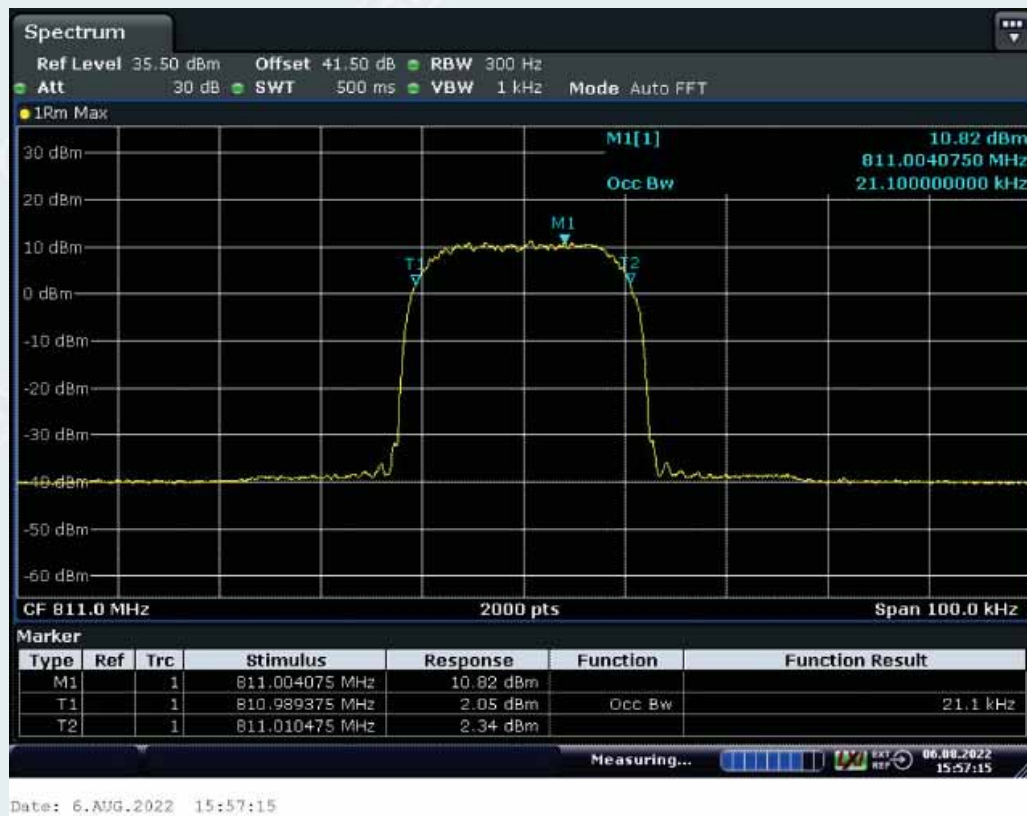


Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.5.2. Uplink



Middle Frequency: 811.0MHz, Output occupied BW(AGC)



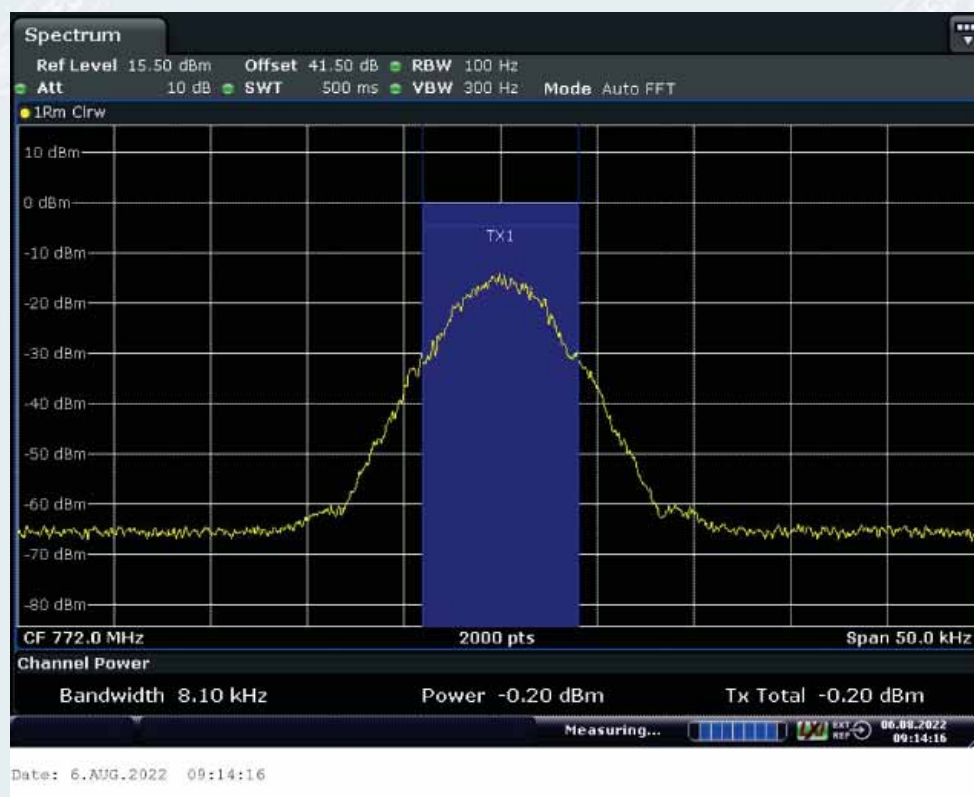
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3. Input VS output Comparison

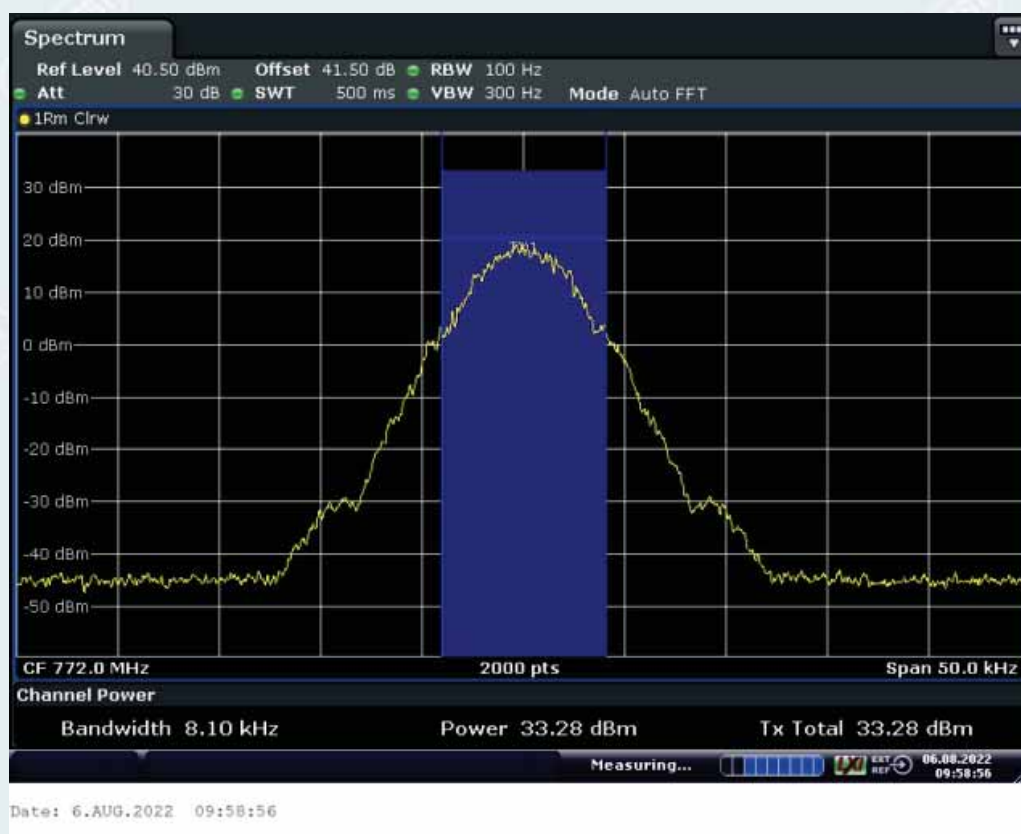
10.5.5.3.1. 700MHz Band

10.5.5.3.1.1. P25 Phase I(C4FM)

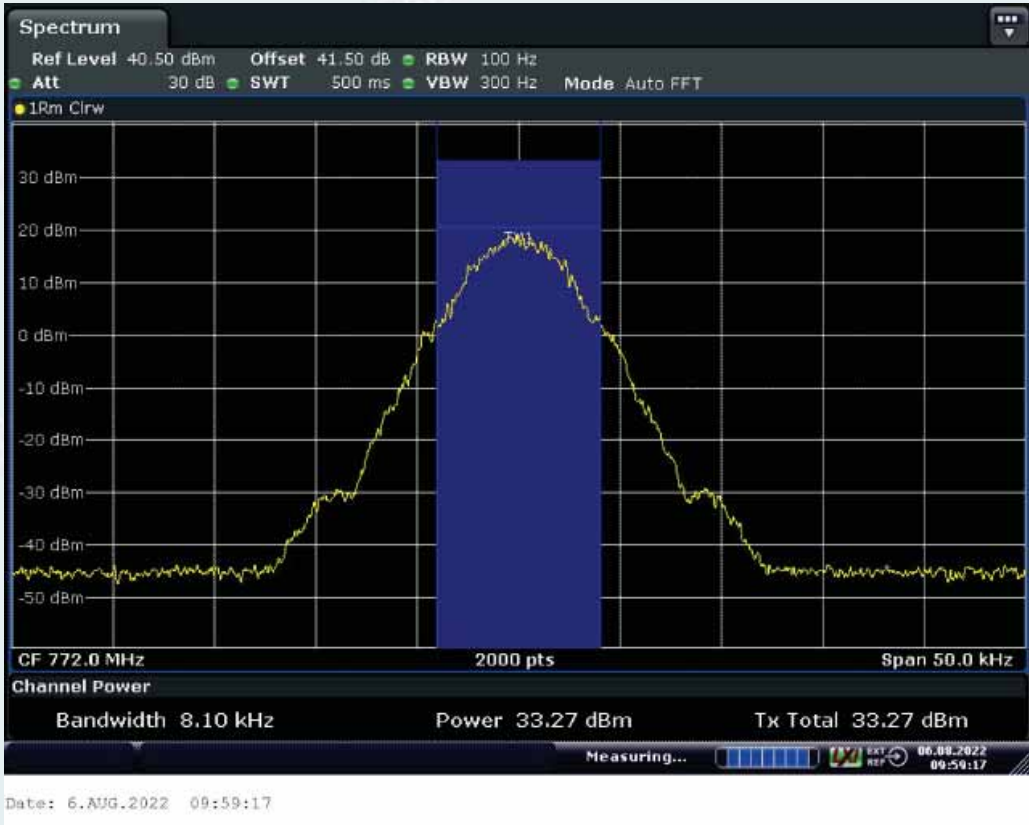
10.5.5.3.1.1.1. Downlink



Middle Frequency: 772.0MHz, Input occupied BW

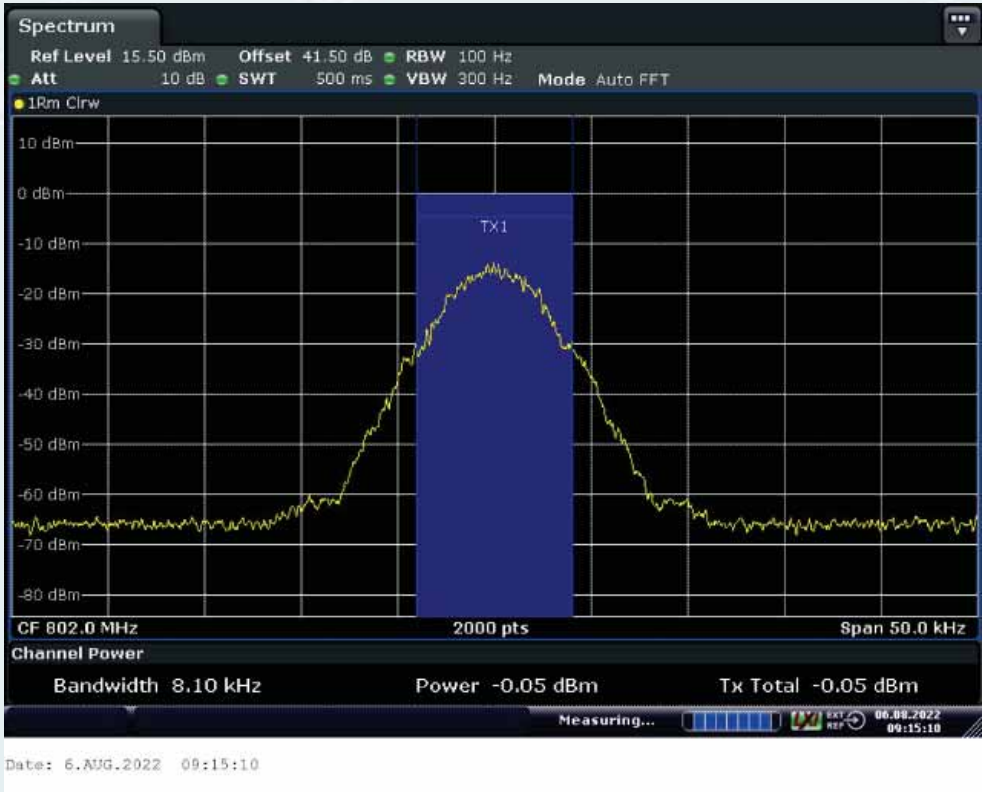


Middle Frequency: 772.0MHz, Output occupied BW(AGC)

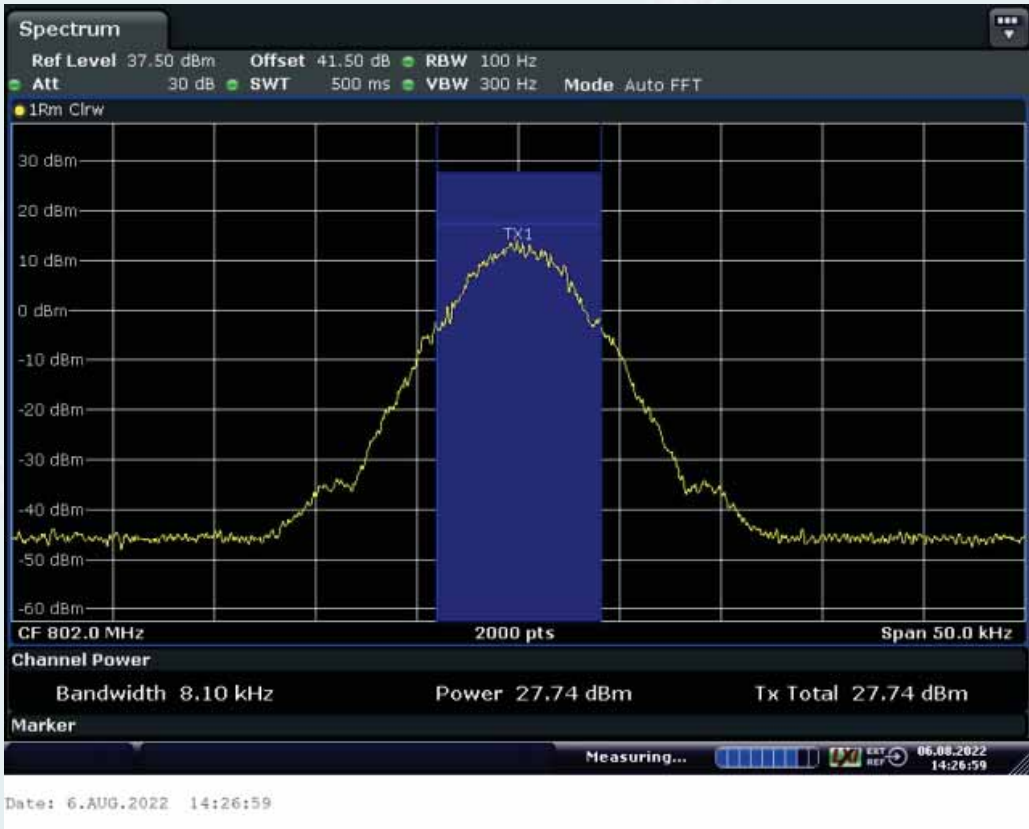


Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

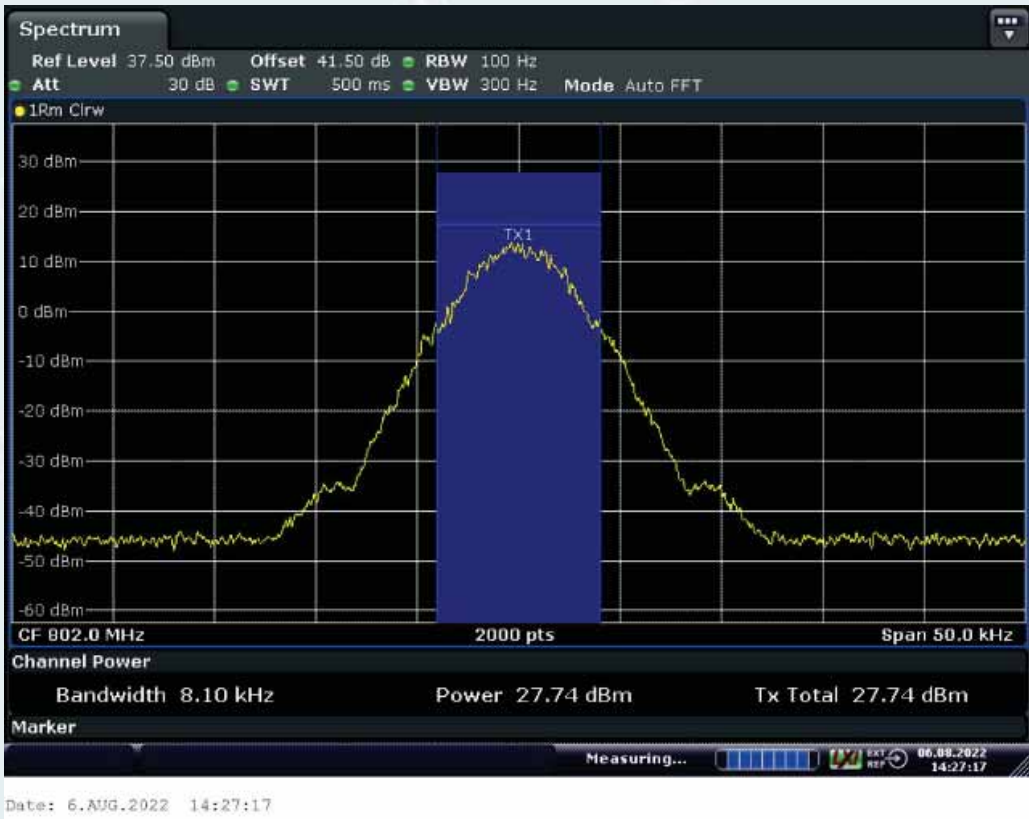
10.5.5.3.1.1.2. Uplink



Middle Frequency: 802.0MHz MHz, Input occupied BW



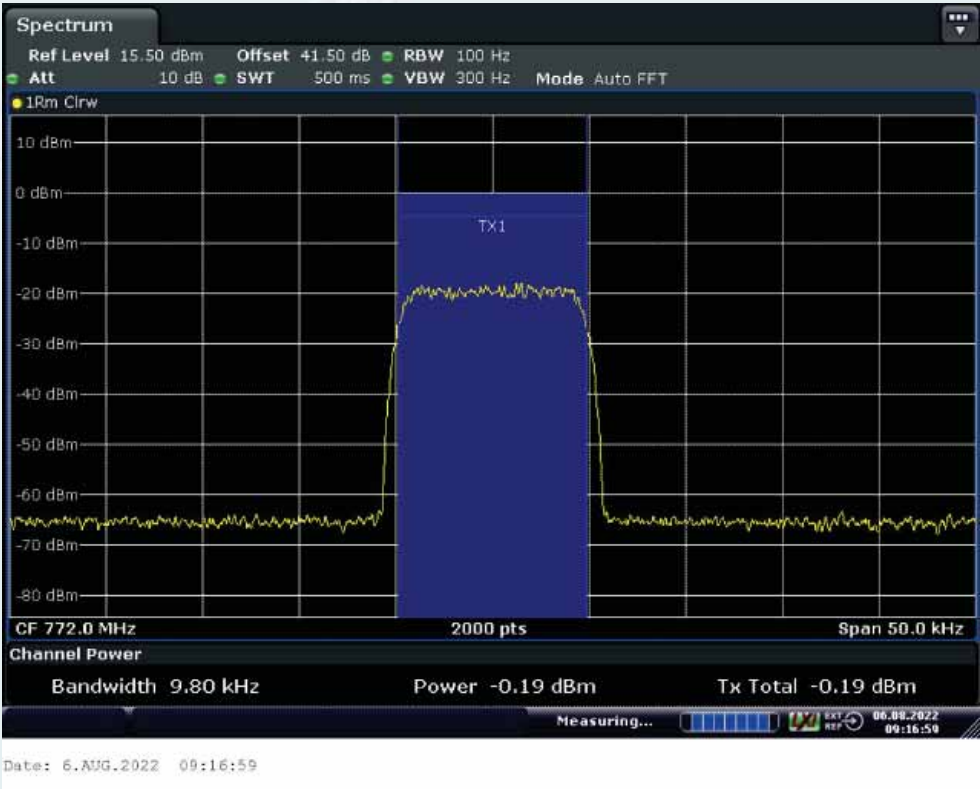
Middle Frequency: 802.0MHz, Output occupied BW(AGC)

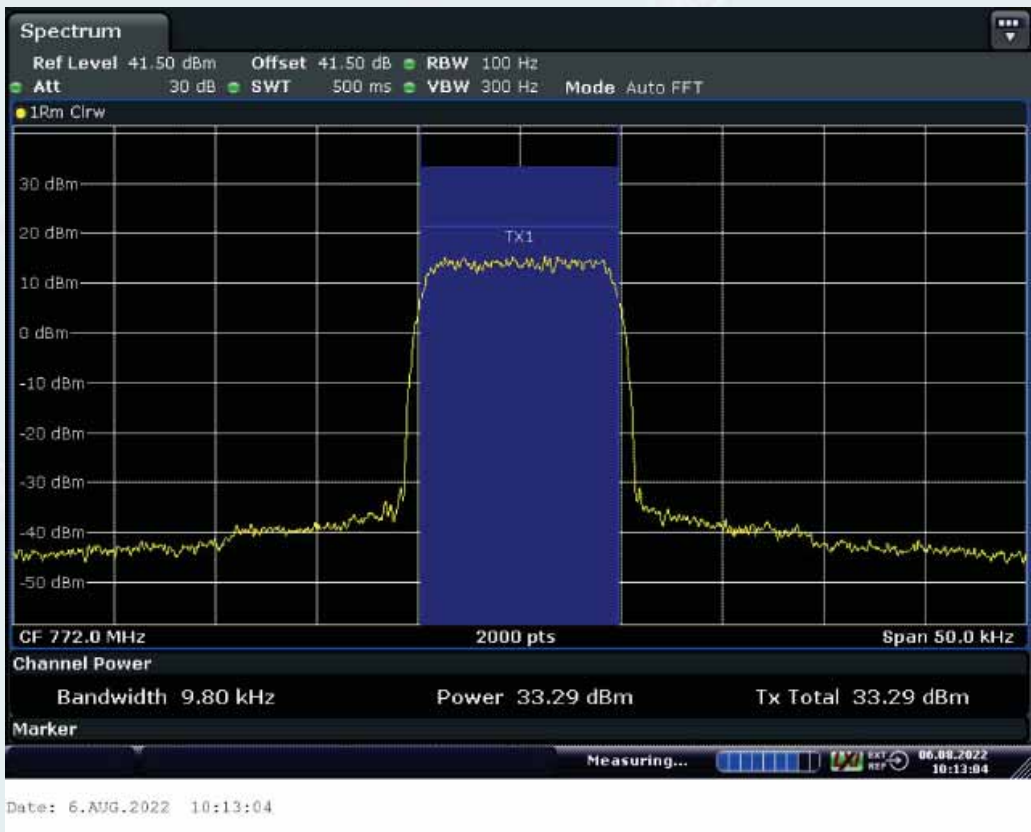


Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.2. P25 Phase II(H-DQPSK)

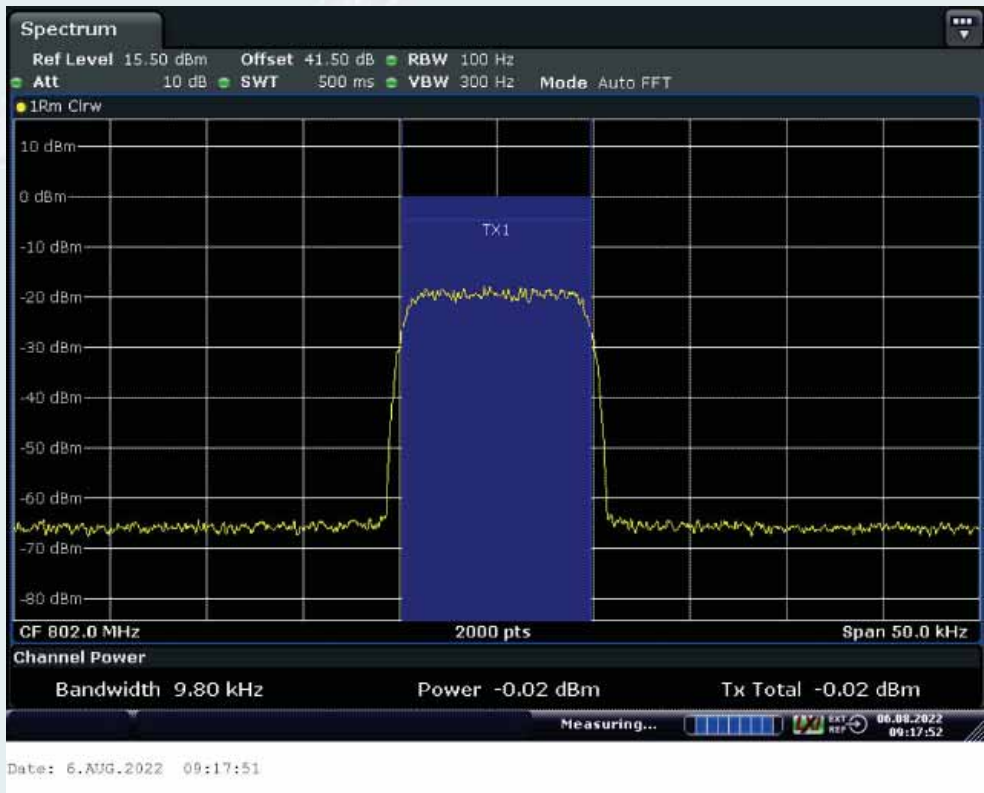
10.5.5.3.1.2.1. Downlink



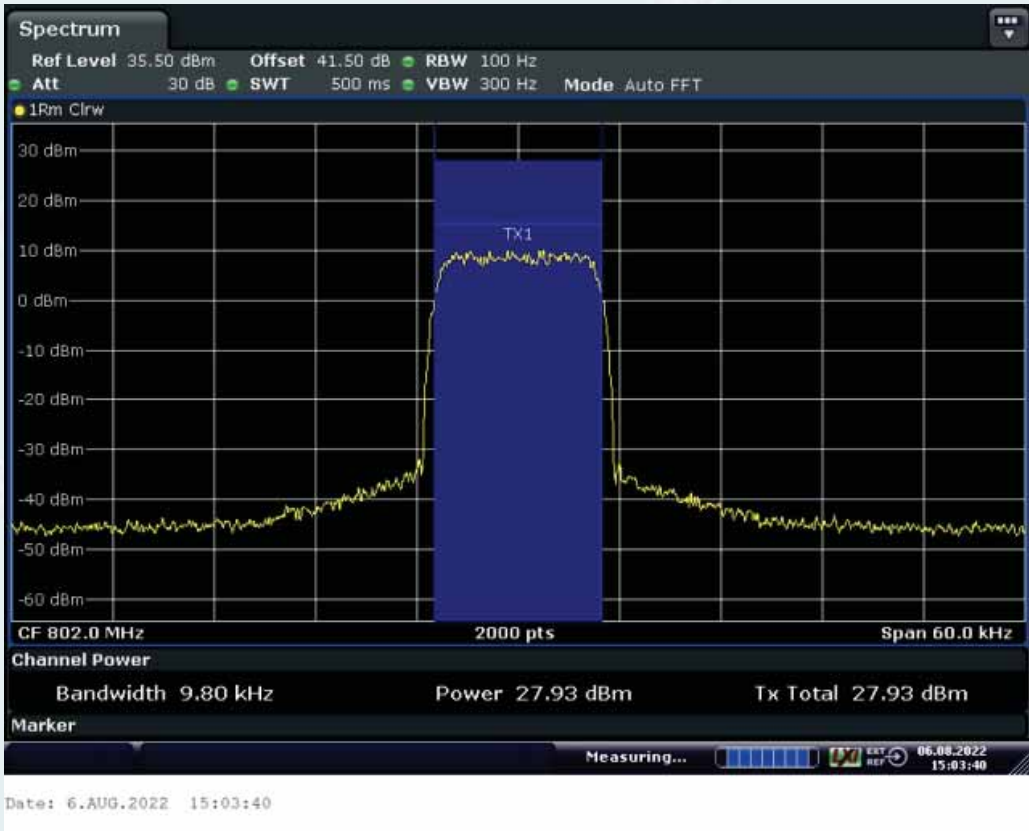


Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

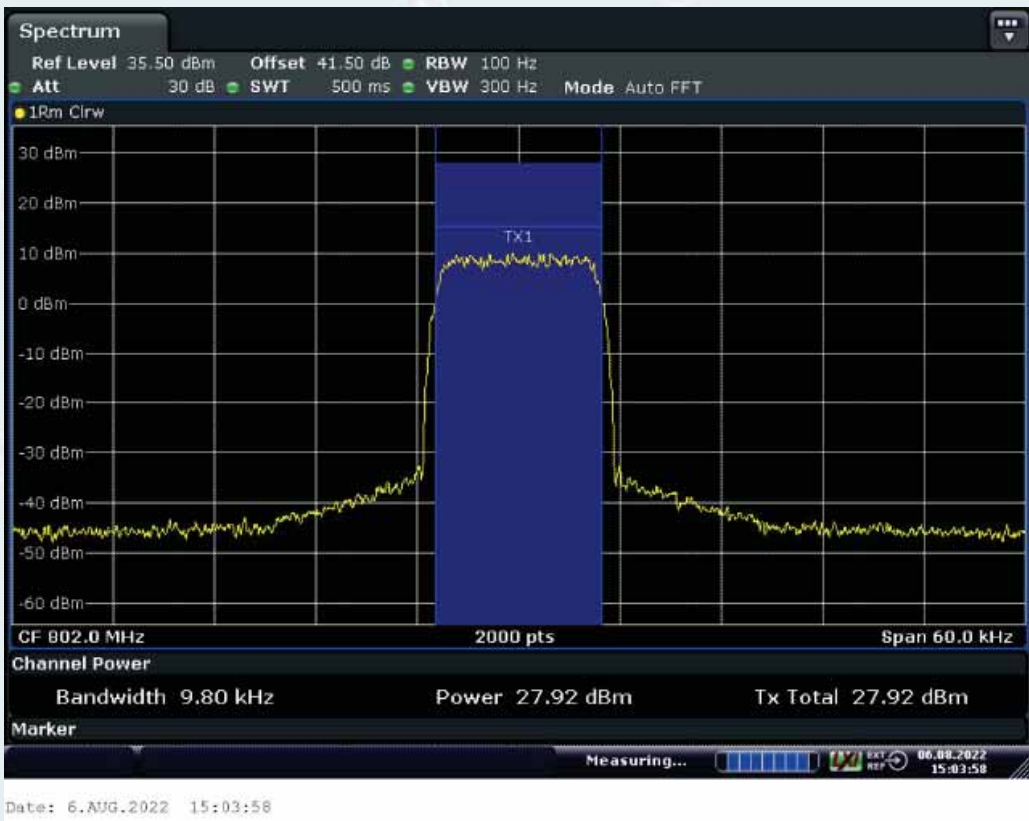
10.5.5.3.1.2.2. Uplink



Middle Frequency: 802.0MHz MHz, Input occupied BW



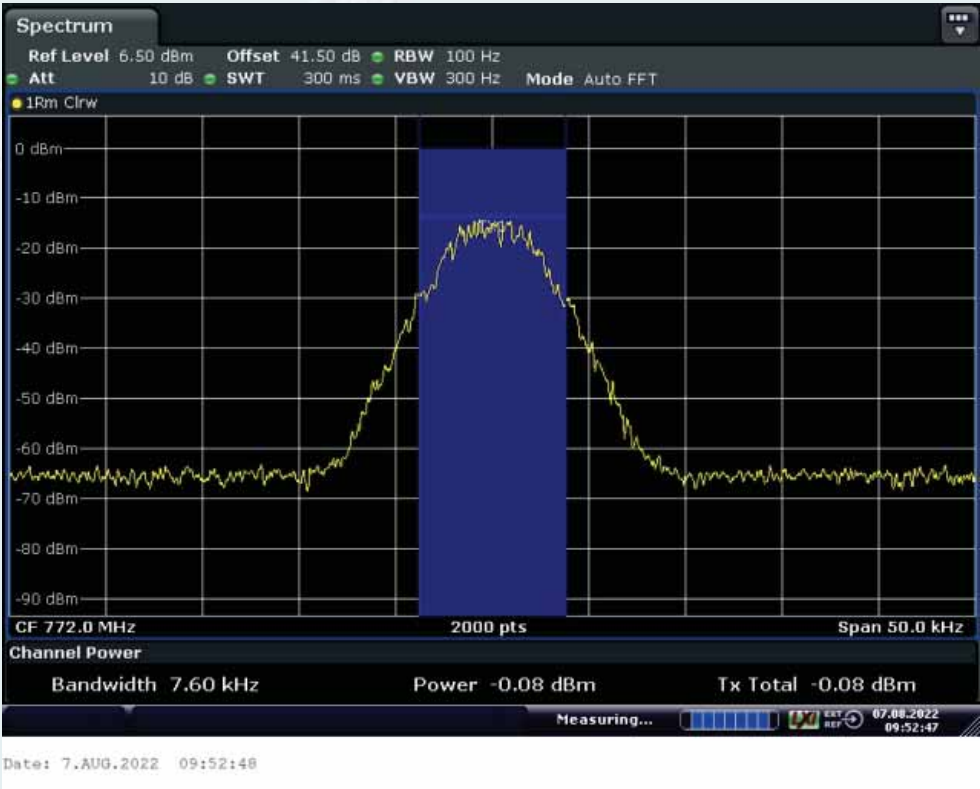
Middle Frequency: 802.0MHz, Output occupied BW(AGC)



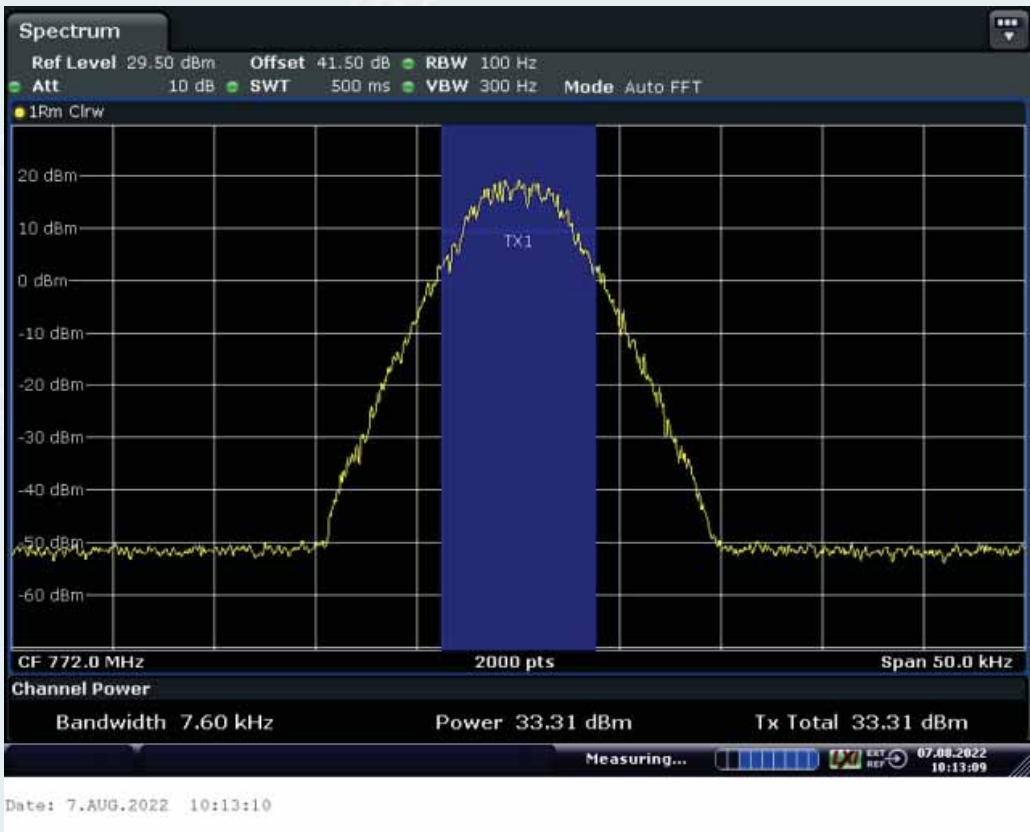
Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.3. DMR

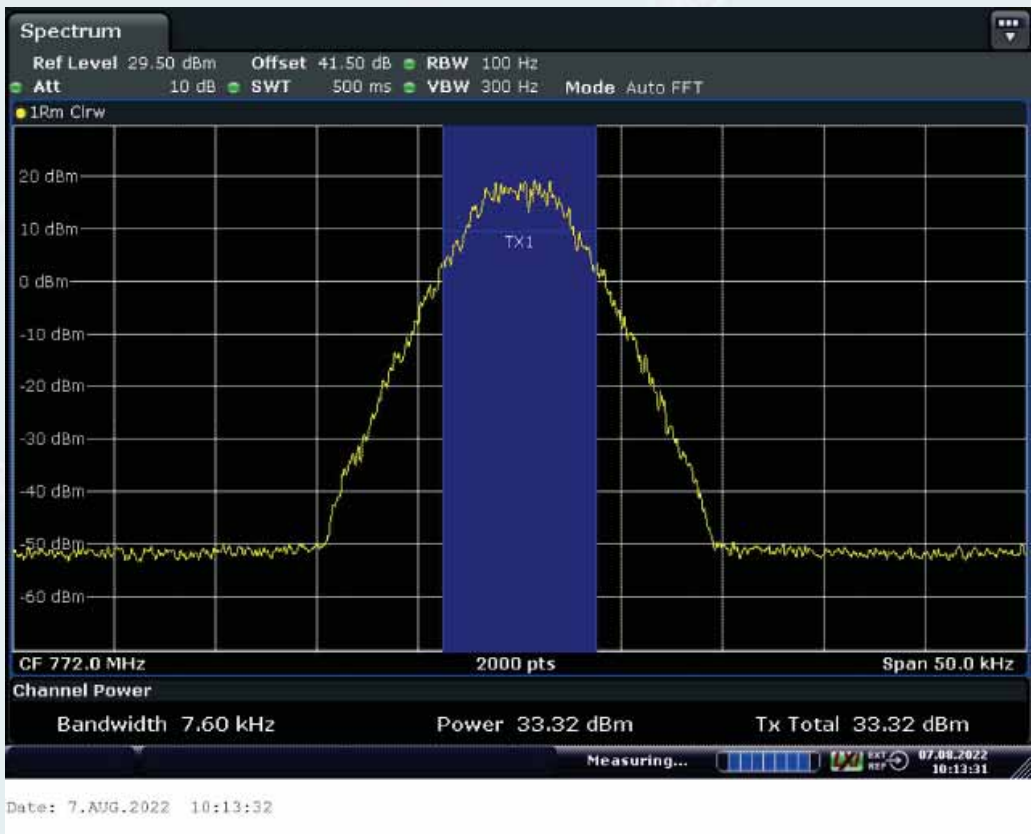
10.5.5.3.1.3.1. Downlink



Middle Frequency: 772.0MHz, Input occupied BW

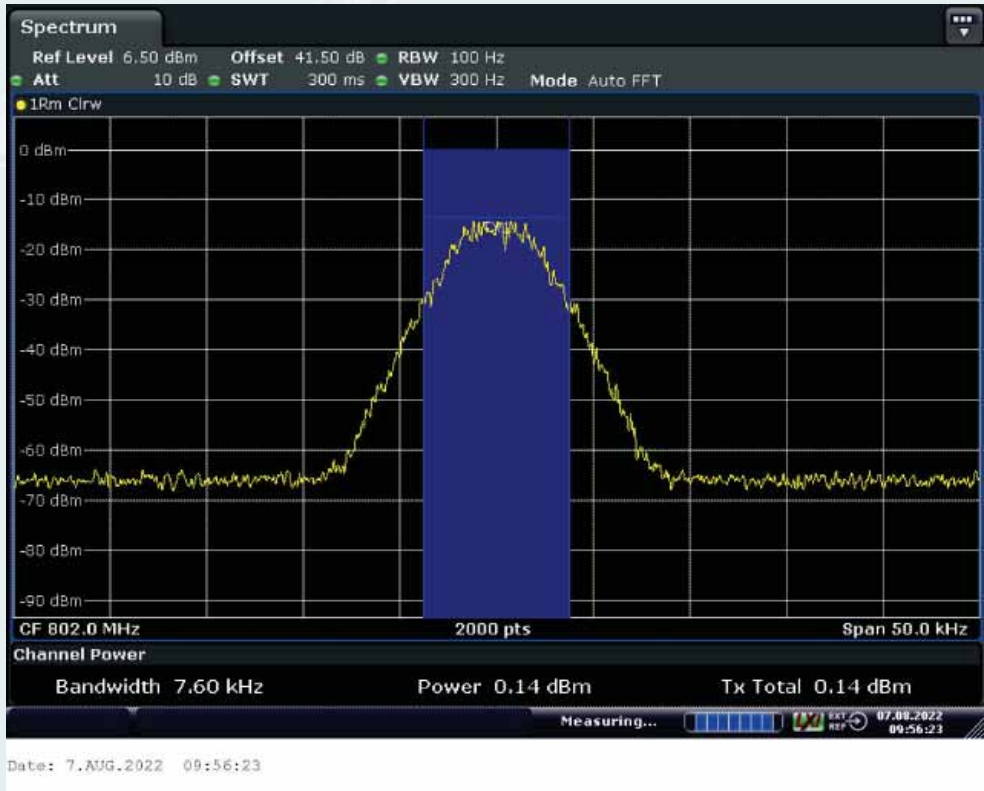


Middle Frequency: 772.0MHz, Output occupied BW(AGC)

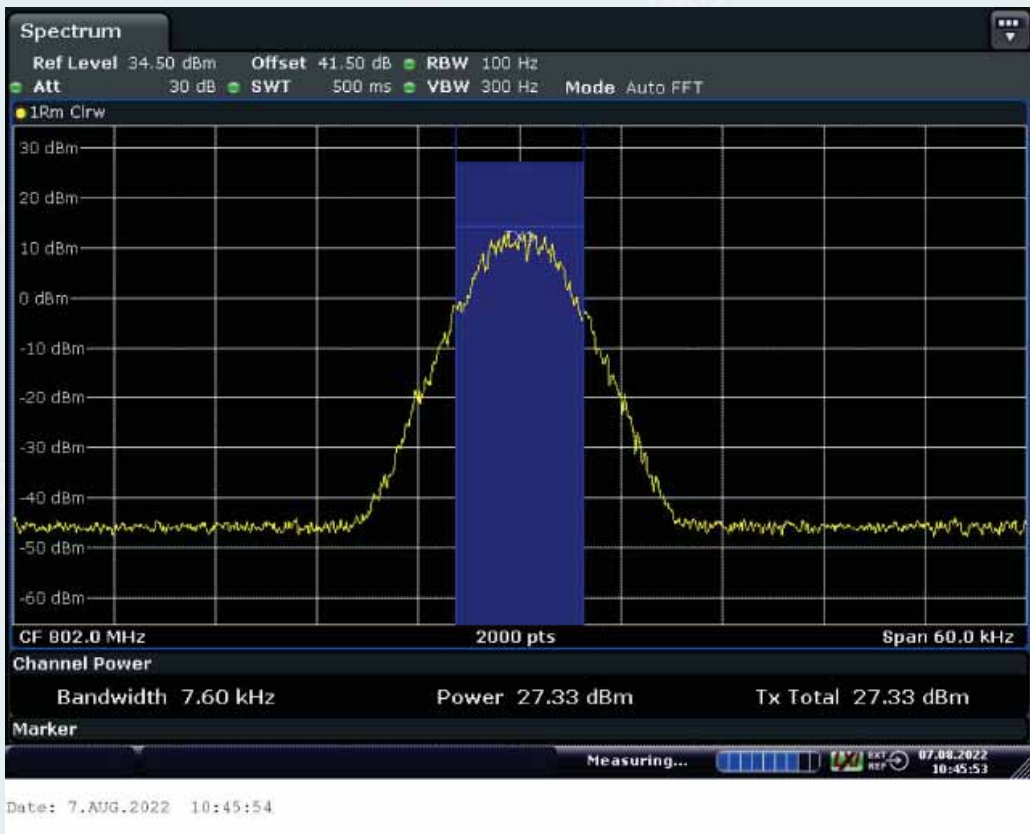


Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

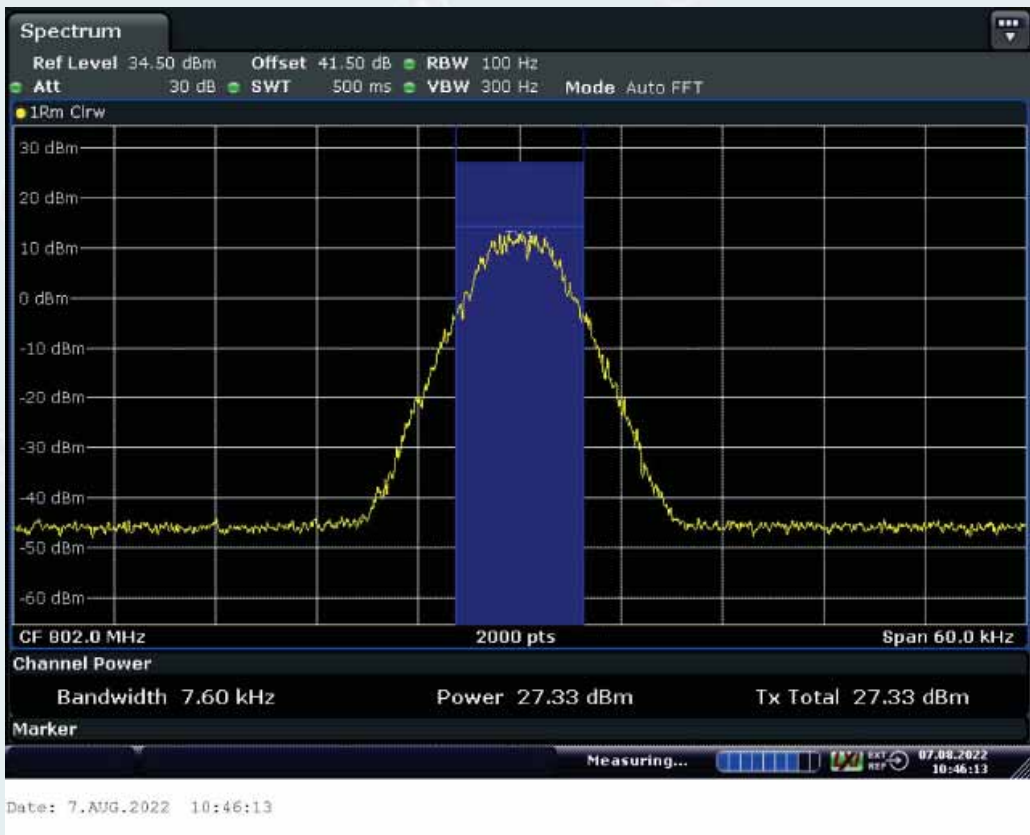
10.5.5.3.1.3.2. Uplink



Middle Frequency: 802.0MHz MHz, Input occupied BW



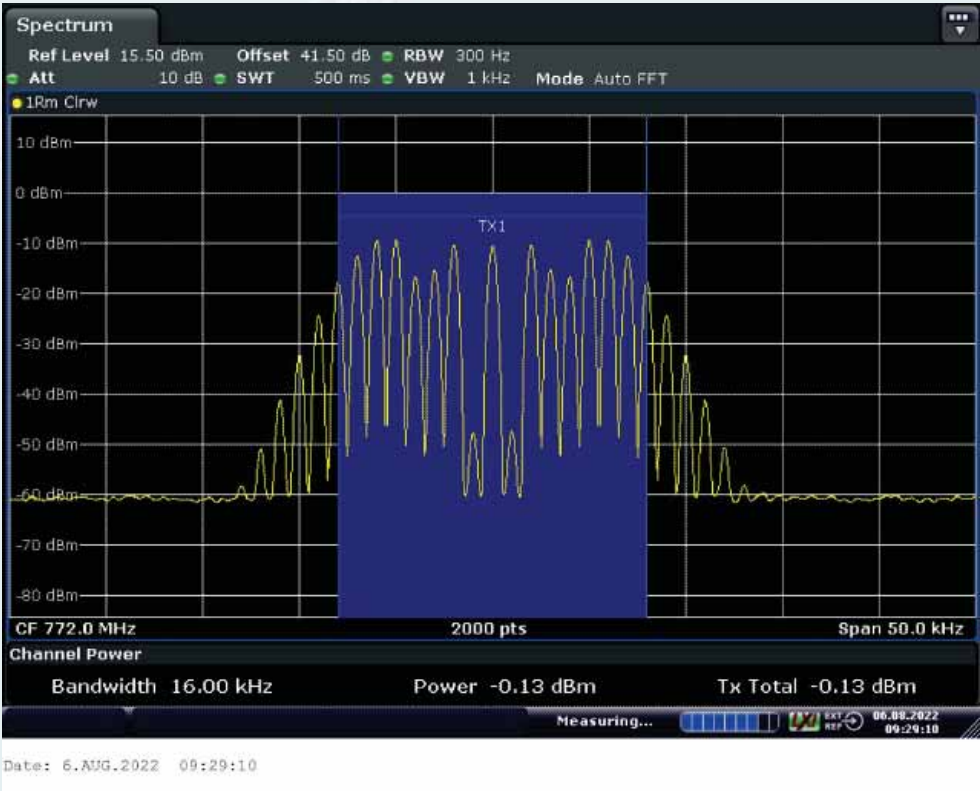
Middle Frequency: 802.0MHz, Output occupied BW(AGC)



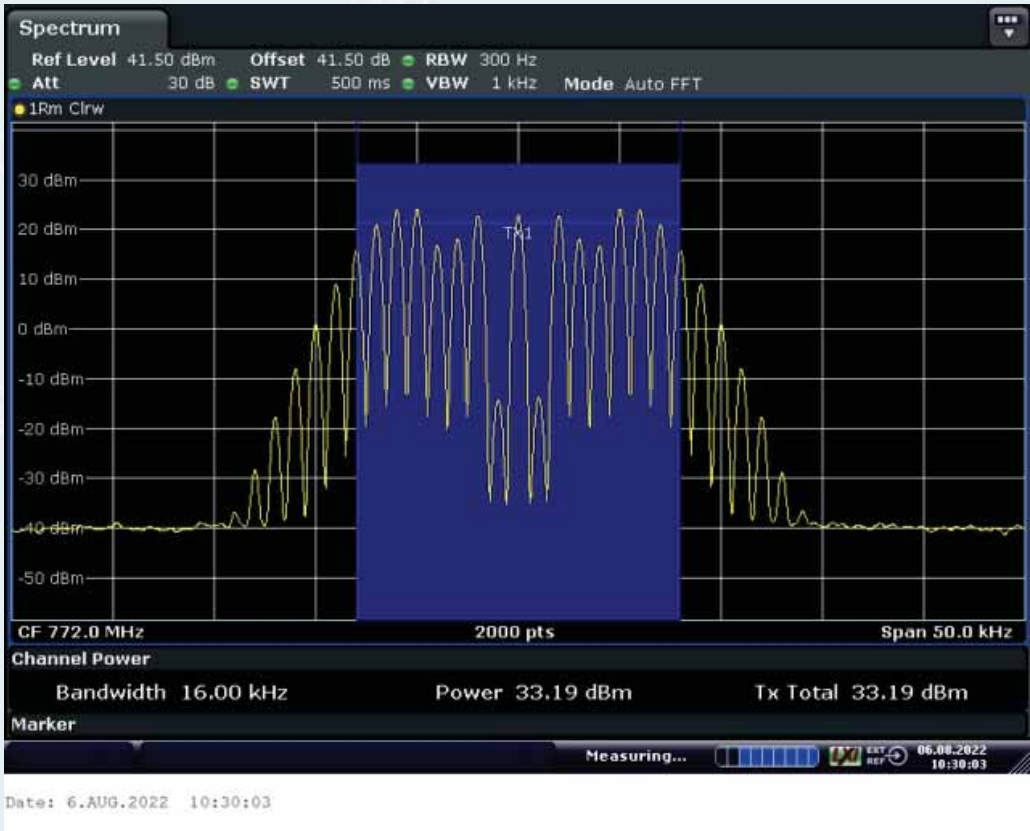
Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.4. Analog FM

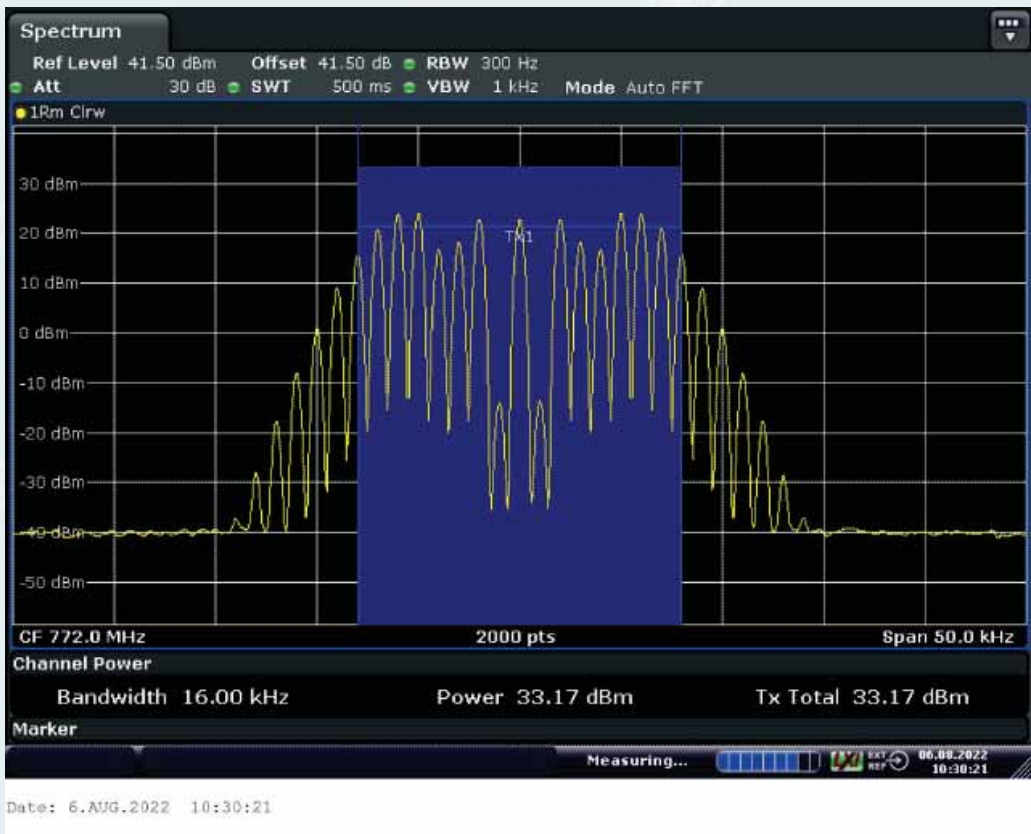
10.5.5.3.1.4.1. Downlink



Middle Frequency: 772.0MHz, Input occupied BW

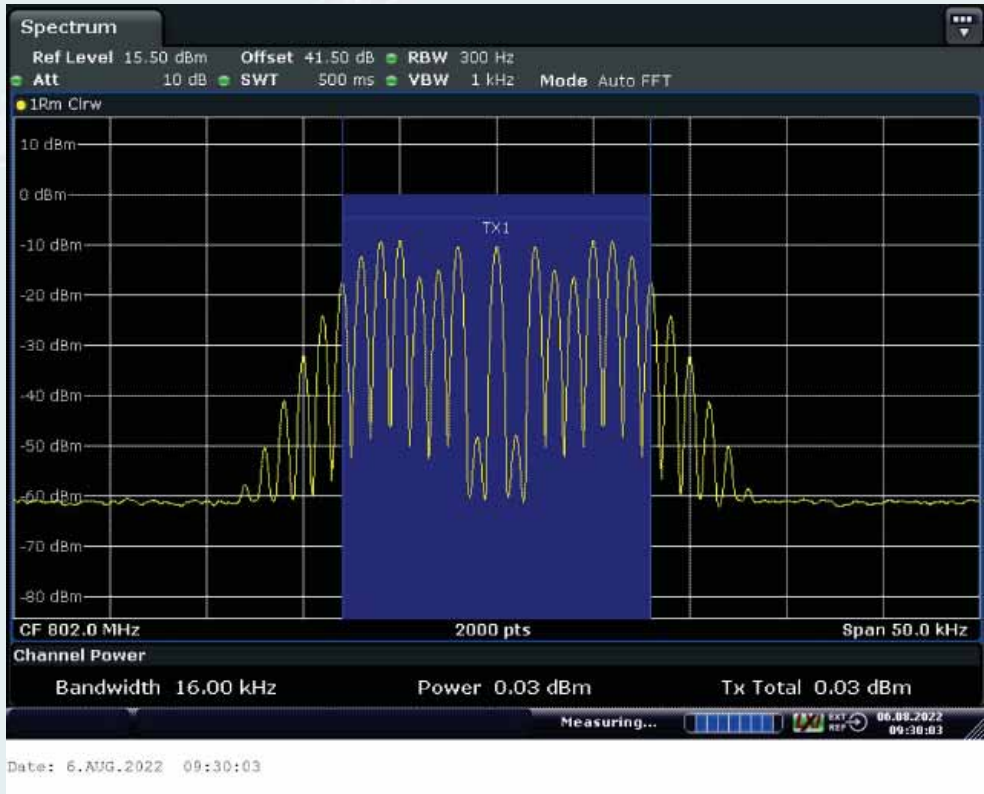


Middle Frequency: 772.0MHz, Output occupied BW(AGC)

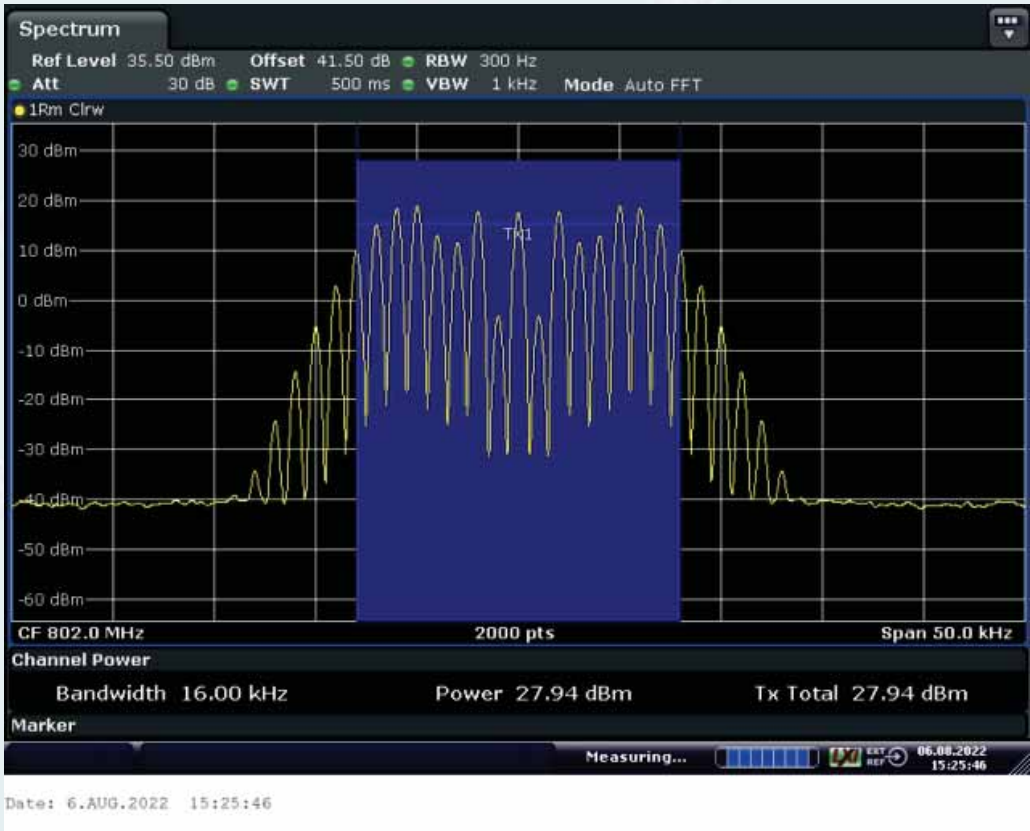


Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

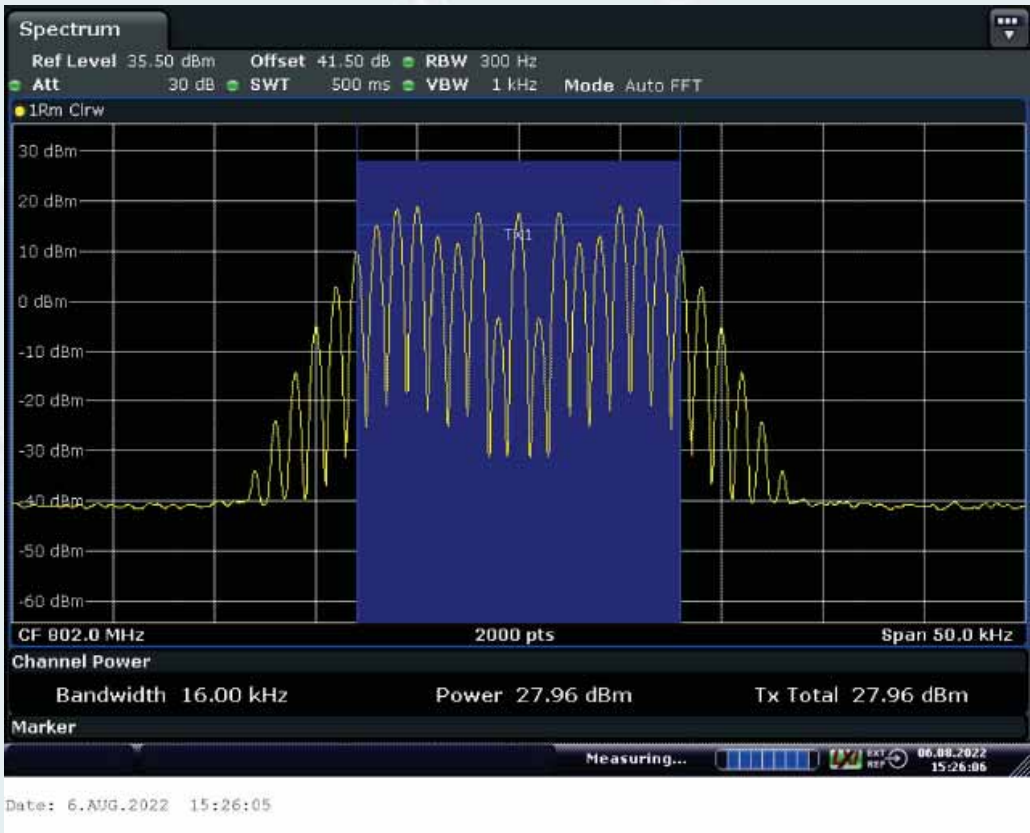
10.5.5.3.1.4.2. Uplink



Middle Frequency: 802.0MHz MHz, Input occupied BW



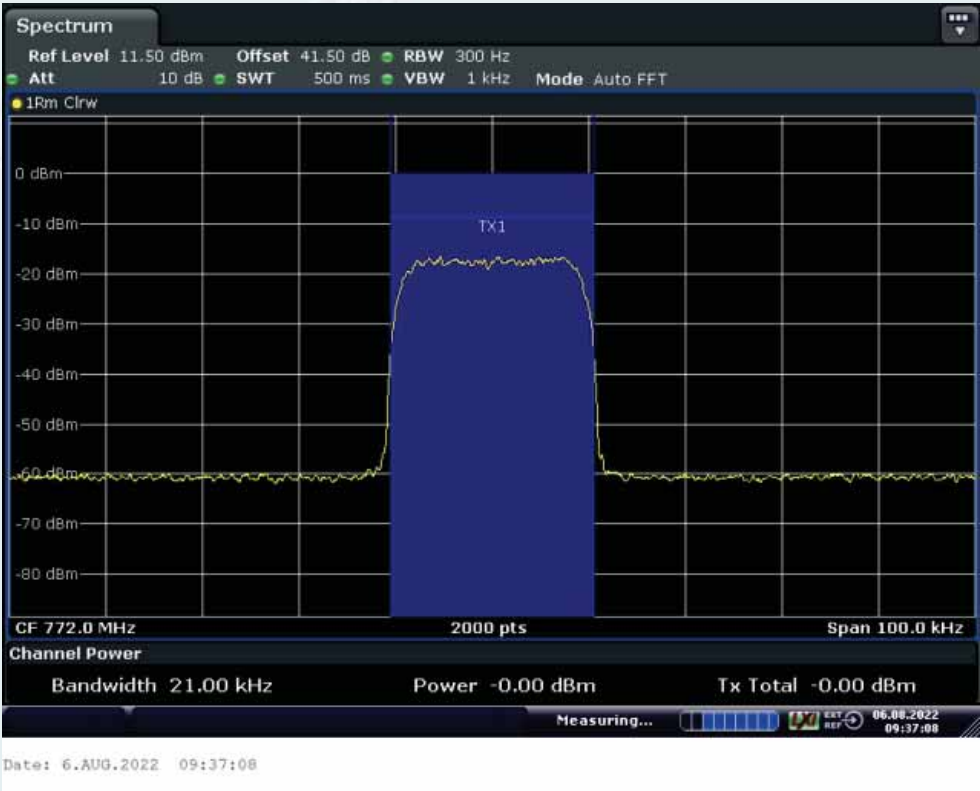
Middle Frequency: 802.0MHz, Output occupied BW(AGC)



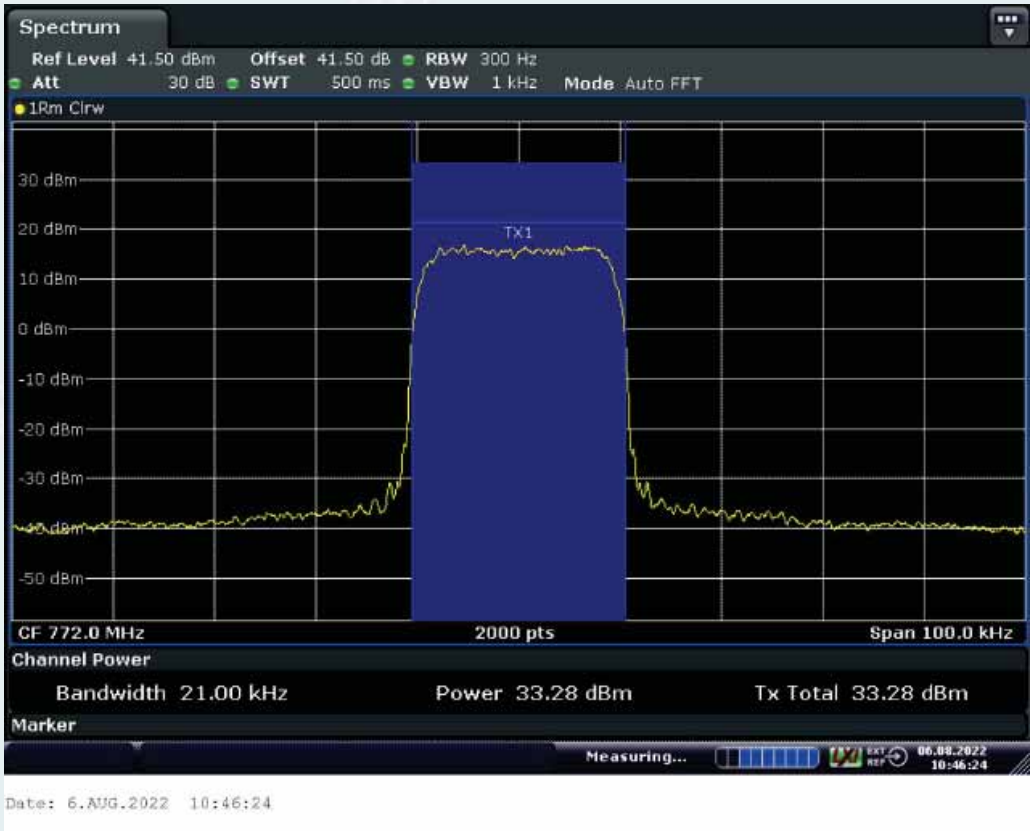
Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.5. Tetra

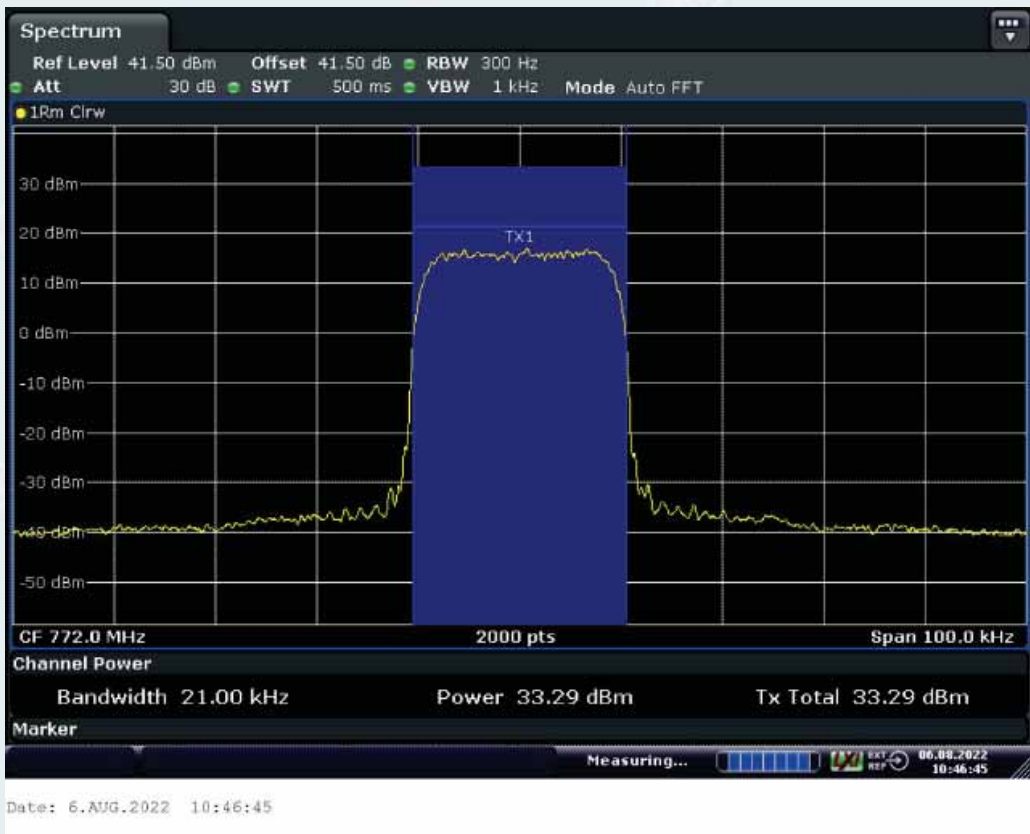
10.5.5.3.1.5.1. Downlink



Middle Frequency: 772.0MHz, Input occupied BW

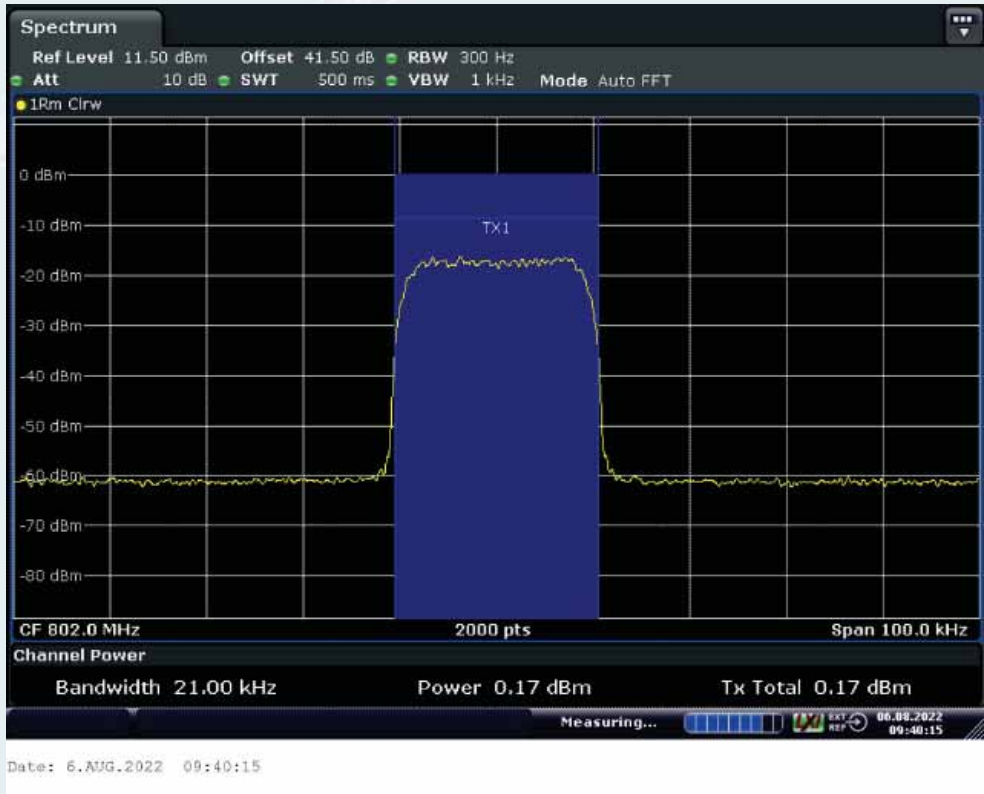


Middle Frequency: 772.0MHz, Output occupied BW(AGC)

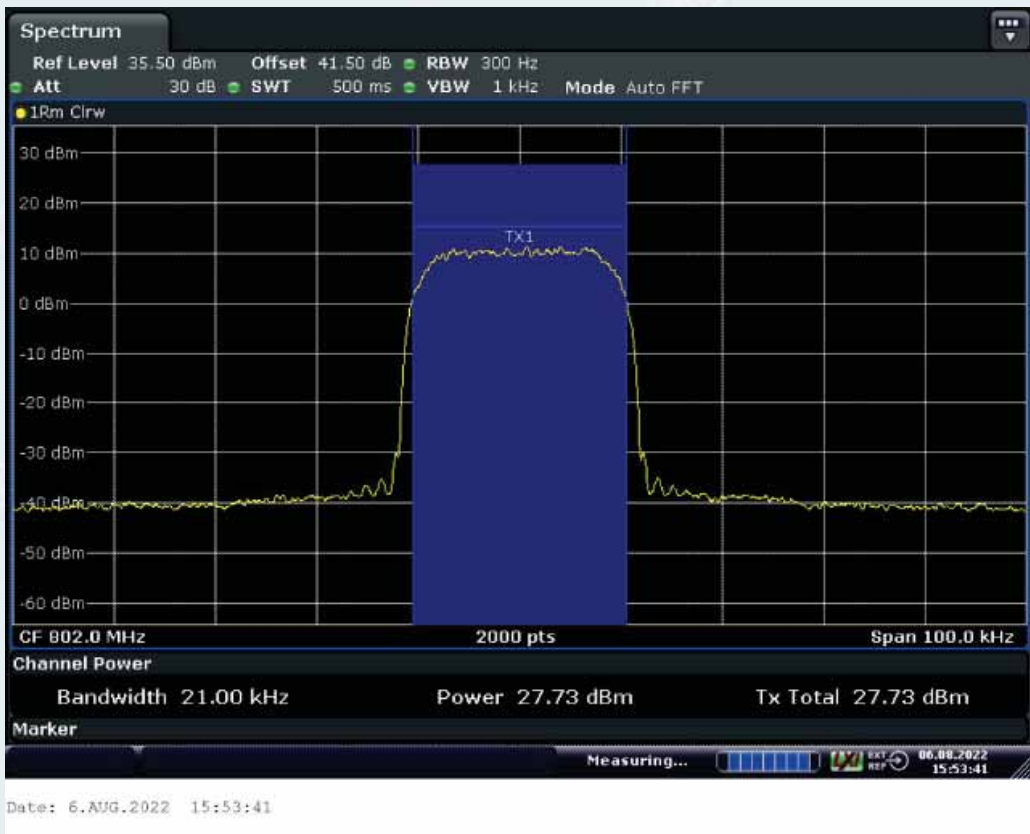


Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

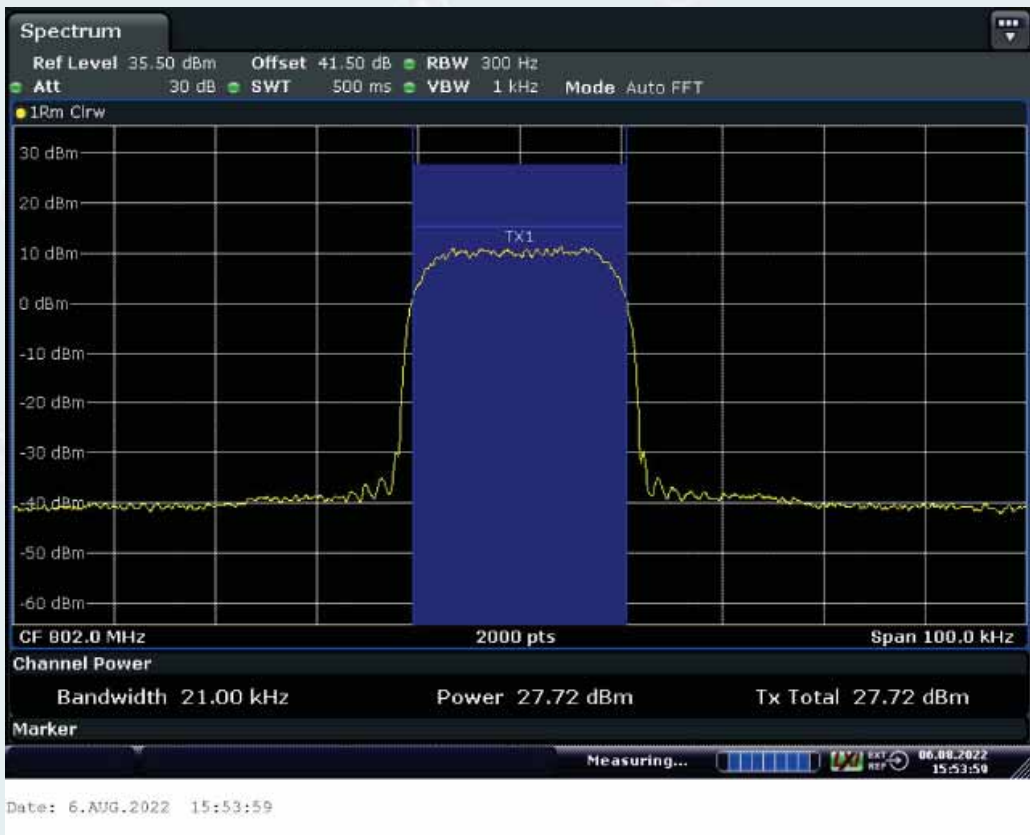
10.5.5.3.1.5.2. Uplink



Middle Frequency: 802.0MHz MHz, Input occupied BW



Middle Frequency: 802.0MHz, Output occupied BW(AGC)

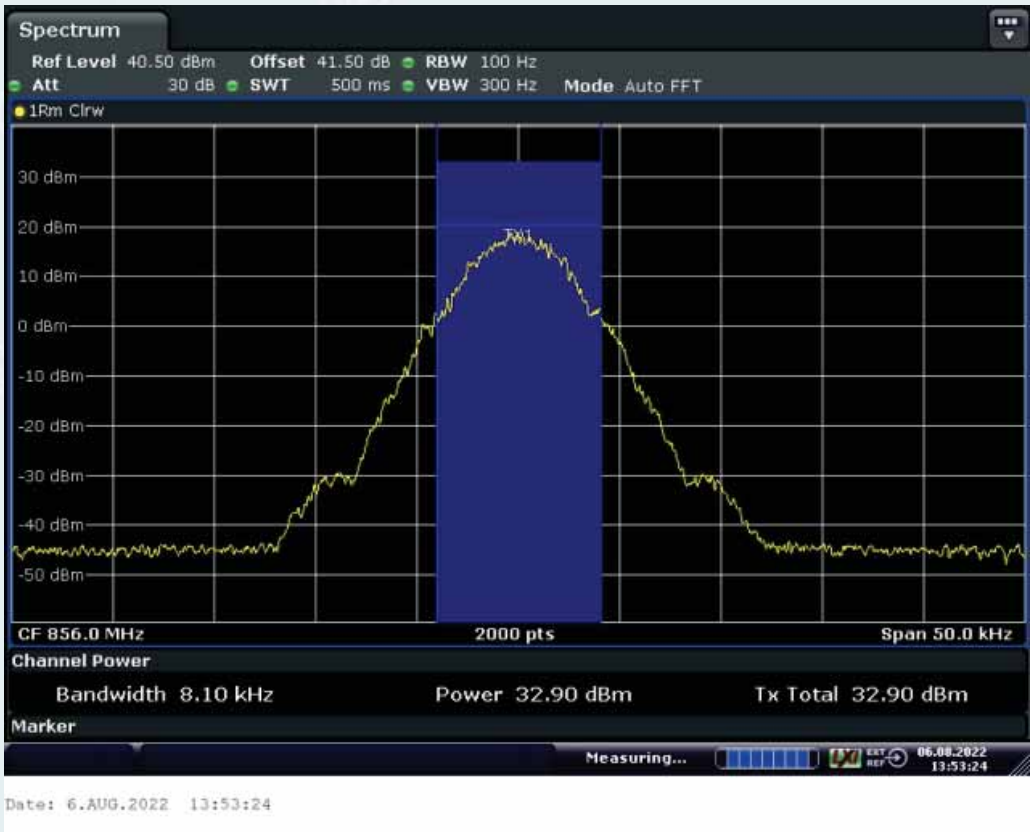
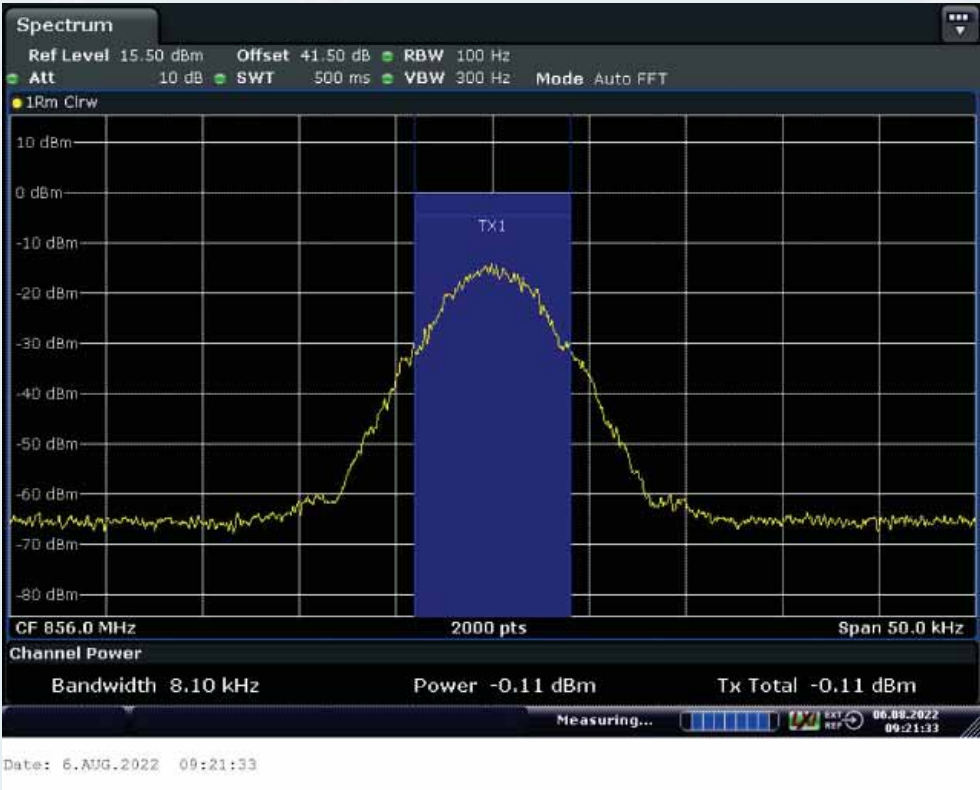


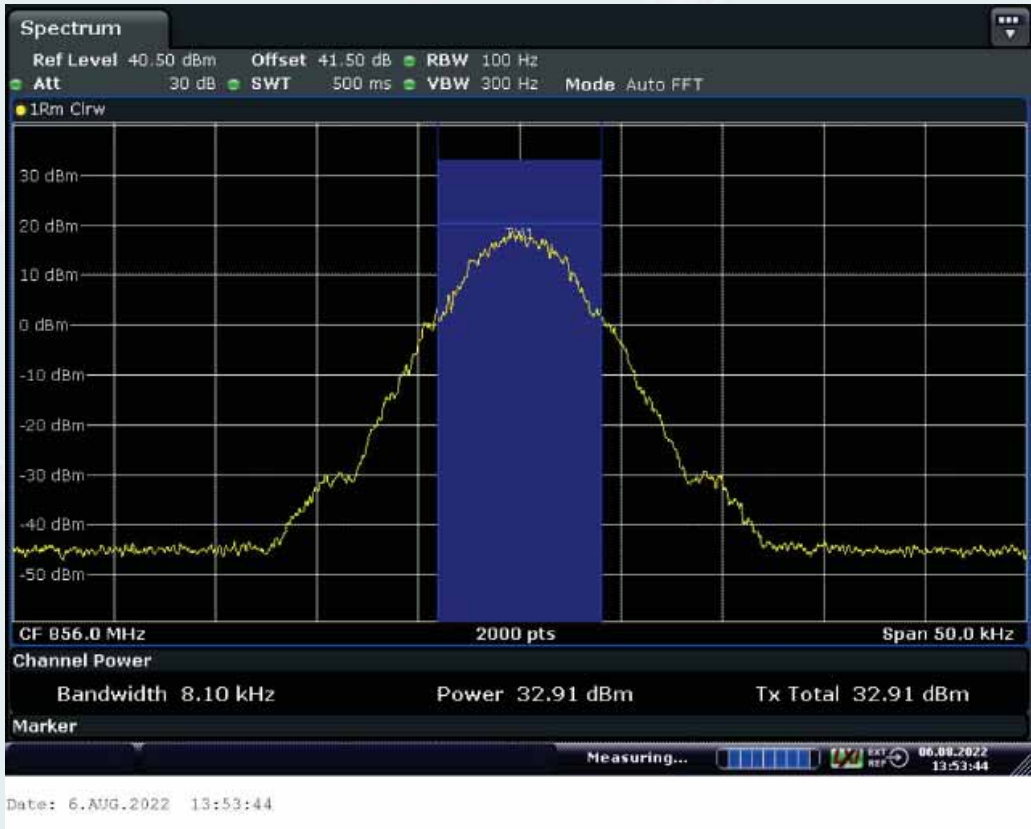
Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.2. 800MHz Band

10.5.5.3.2.1. P25 Phase I(C4FM)

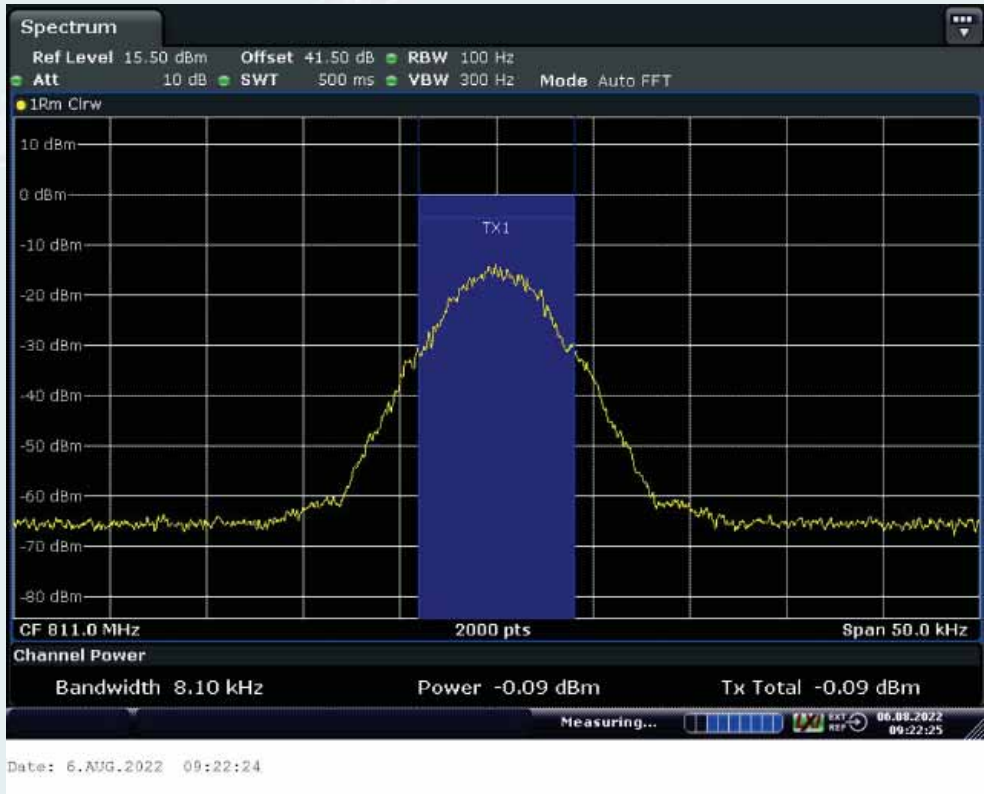
10.5.5.3.2.1.1. Downlink



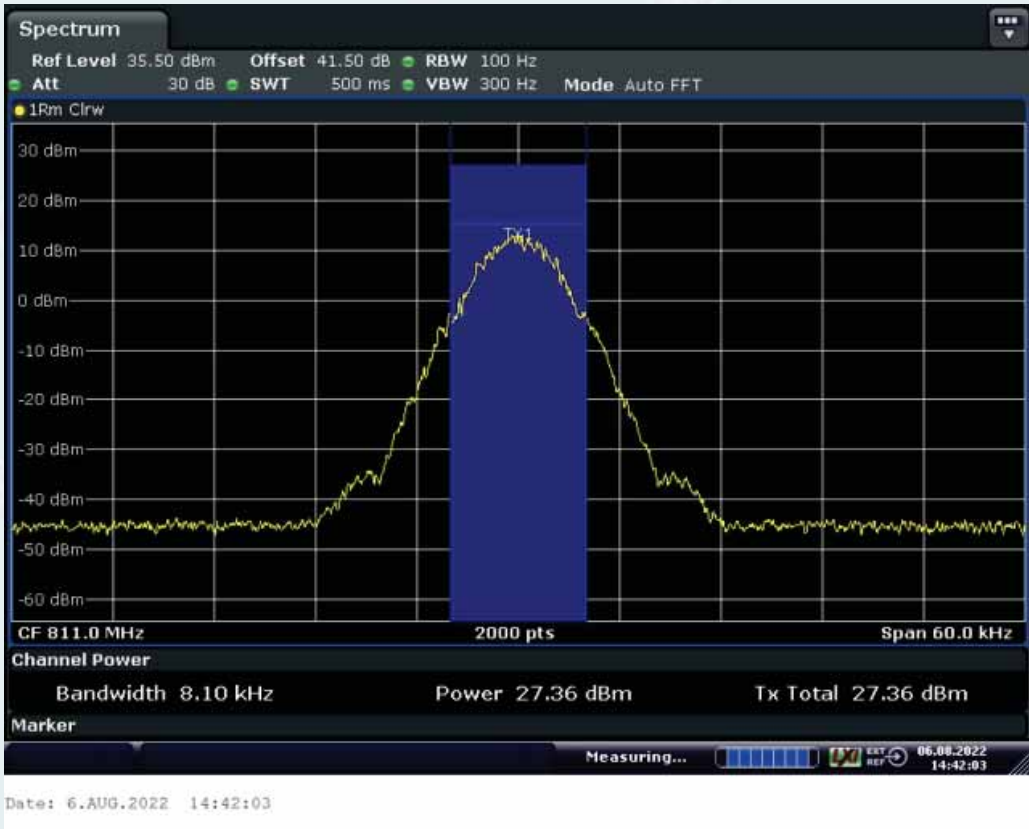


Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

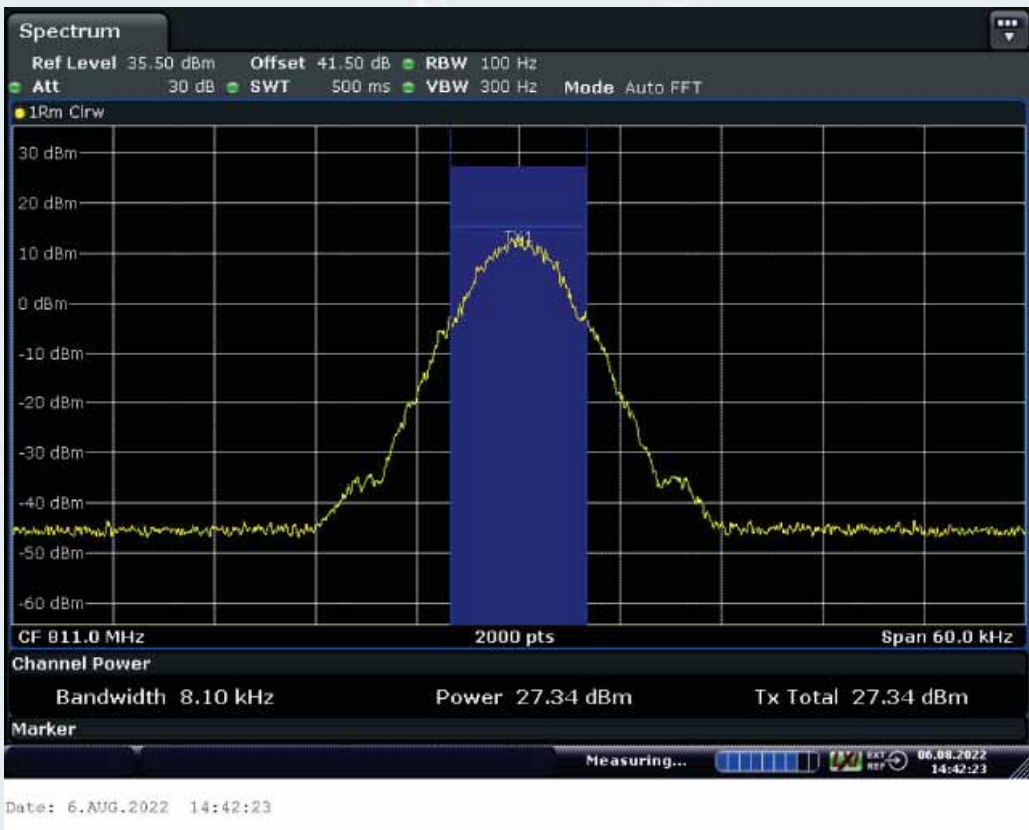
10.5.5.3.2.1.2. Uplink



Middle Frequency: 811.0MHz MHz, Input occupied BW



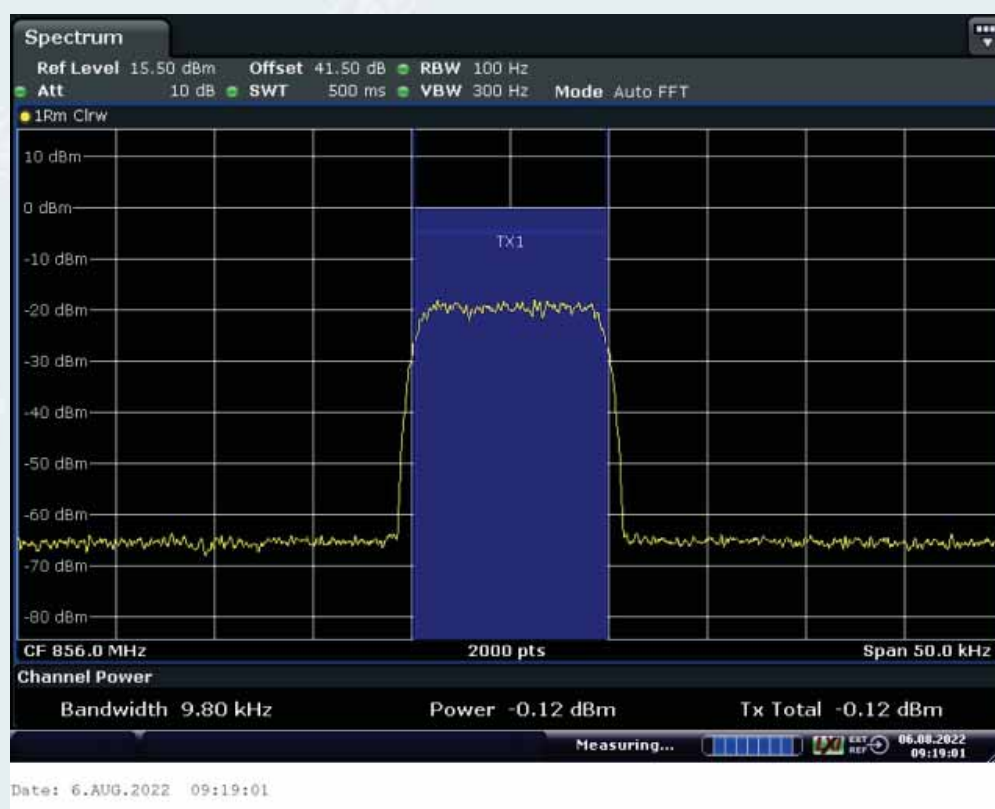
Middle Frequency: 811.0MHz, Output occupied BW(AGC)



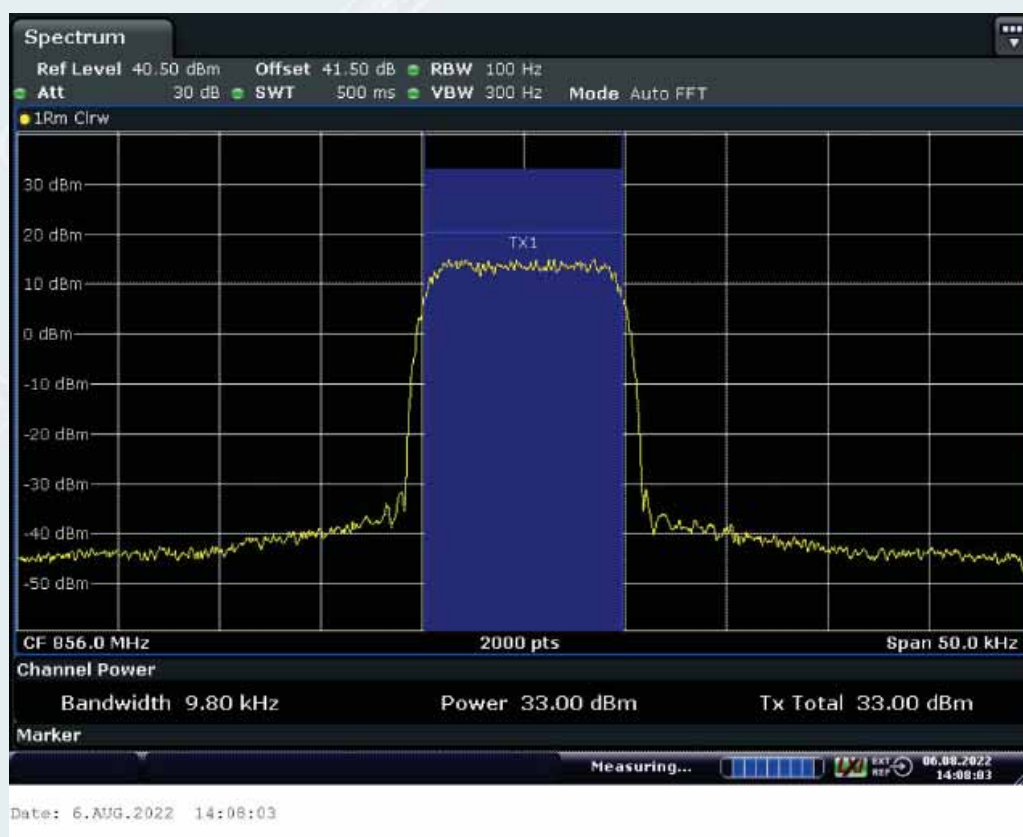
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.2.2. P25 Phase II(H-DQPSK)

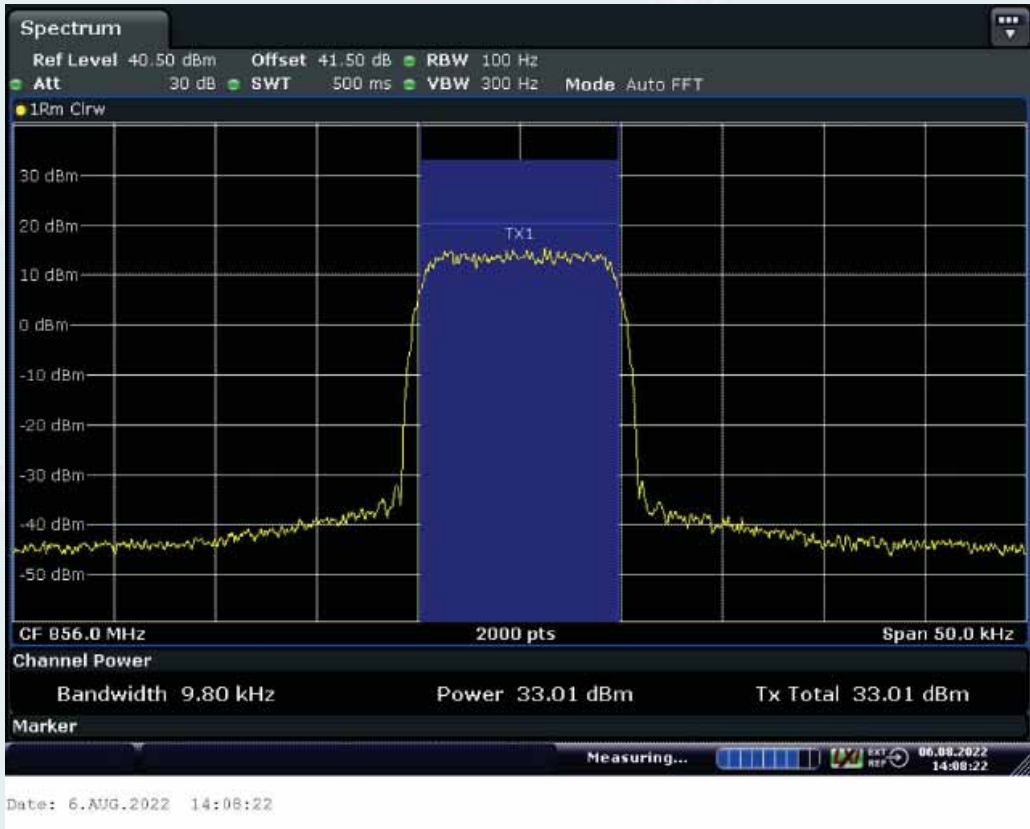
10.5.5.3.2.2.1. Downlink



Middle Frequency: 856.0MHz, Input occupied BW

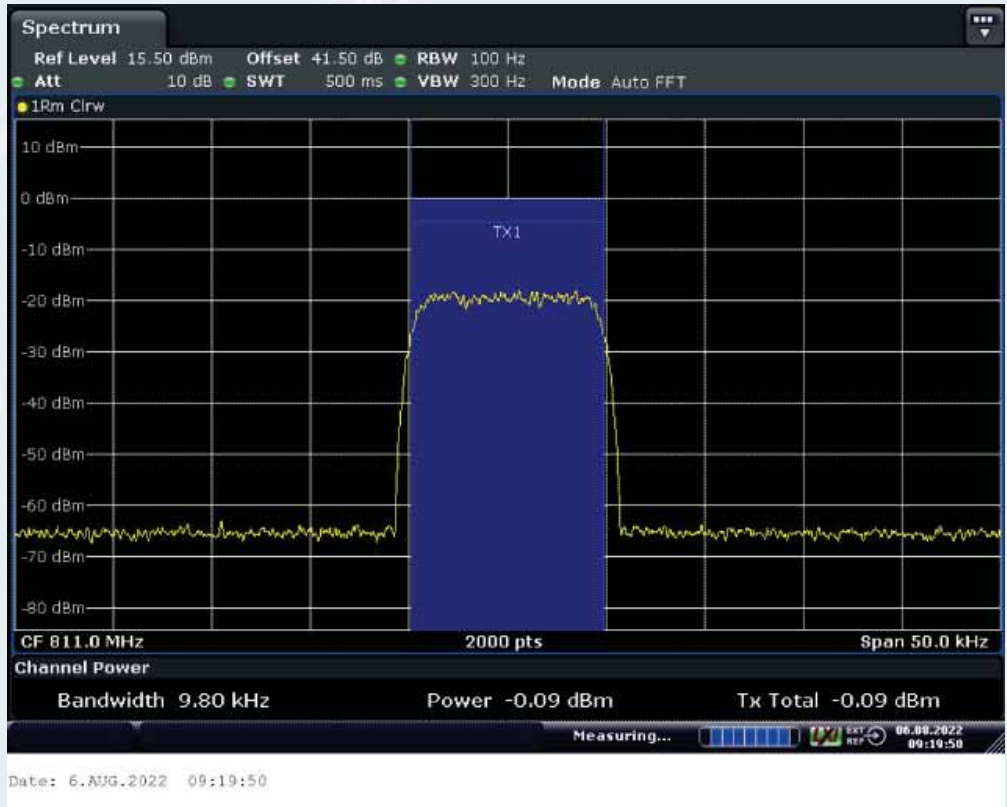


Middle Frequency: 856.0MHz, Output occupied BW(AGC)

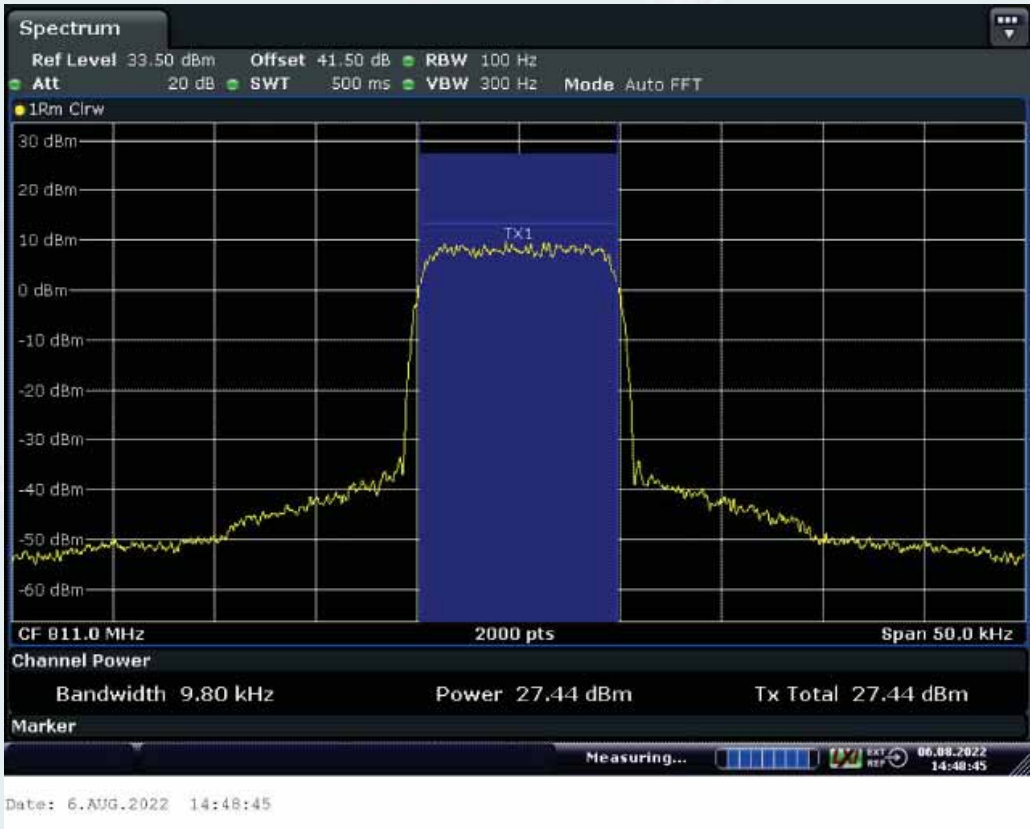


Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

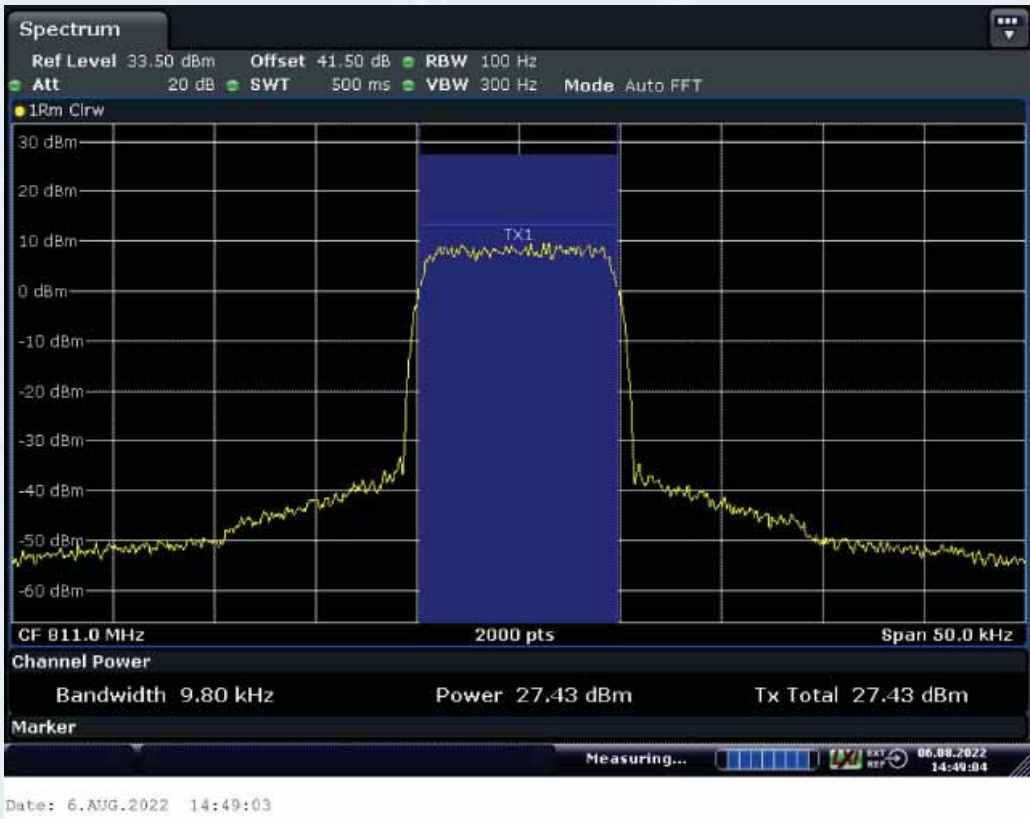
10.5.5.3.2.2.2. Uplink



Middle Frequency: 811.0MHz MHz, Input occupied BW



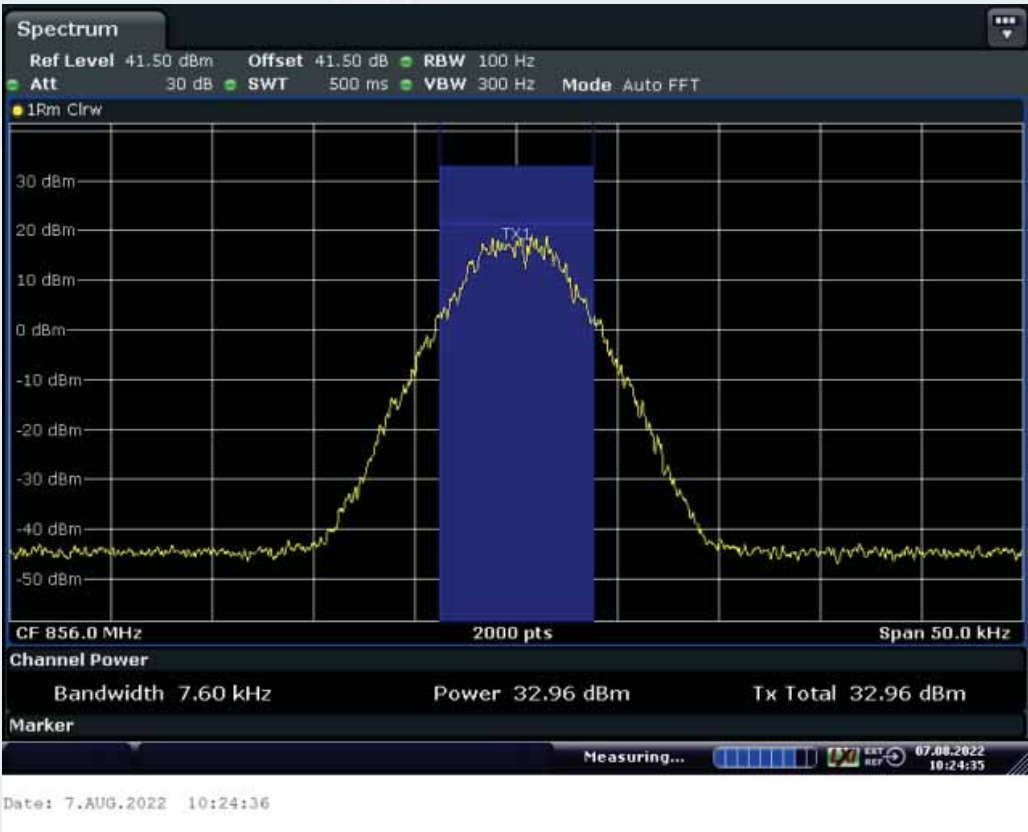
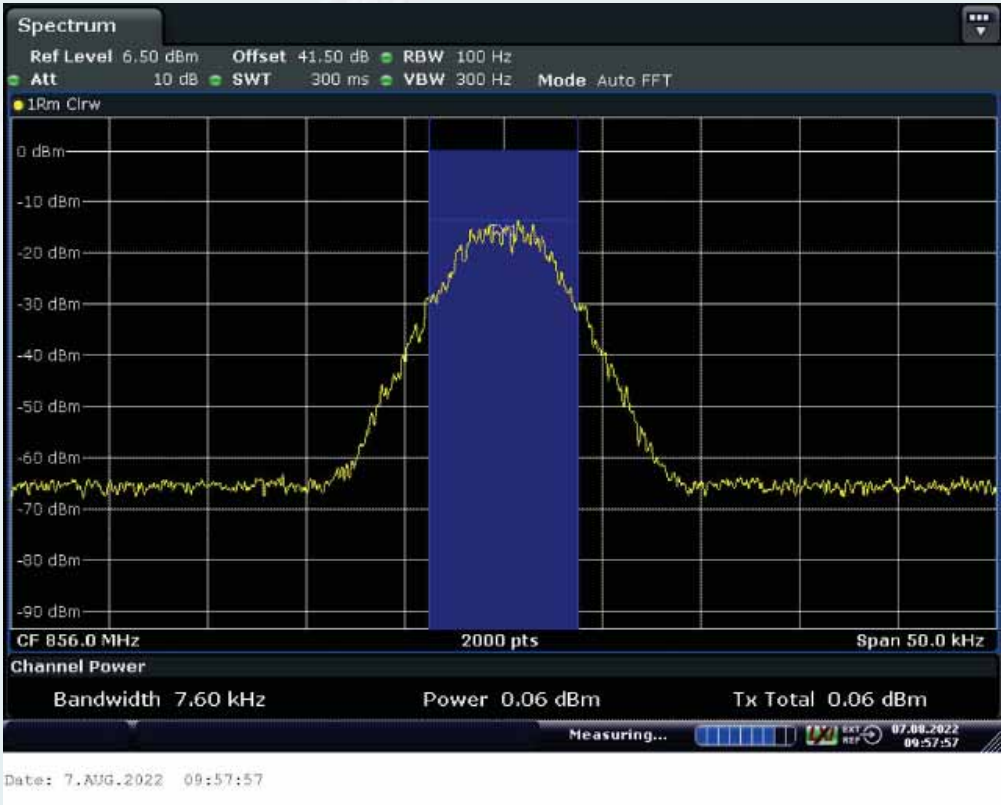
Middle Frequency: 811.0MHz, Output occupied BW(AGC)

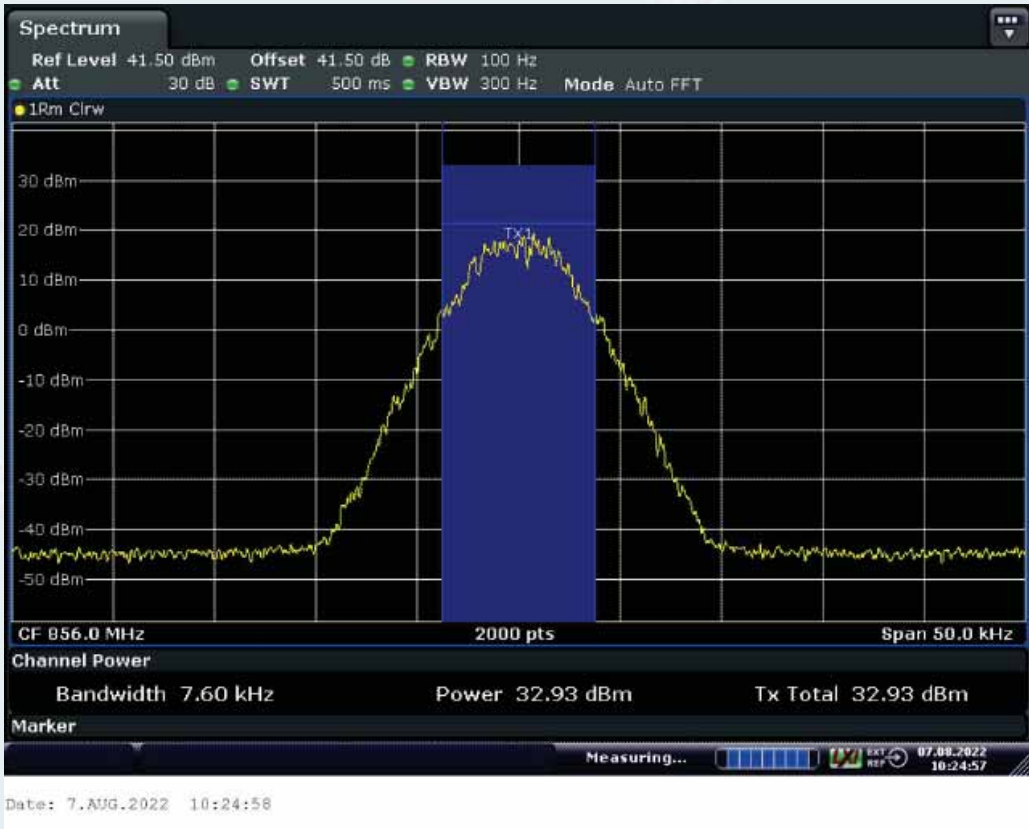


Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.2.3. DMR

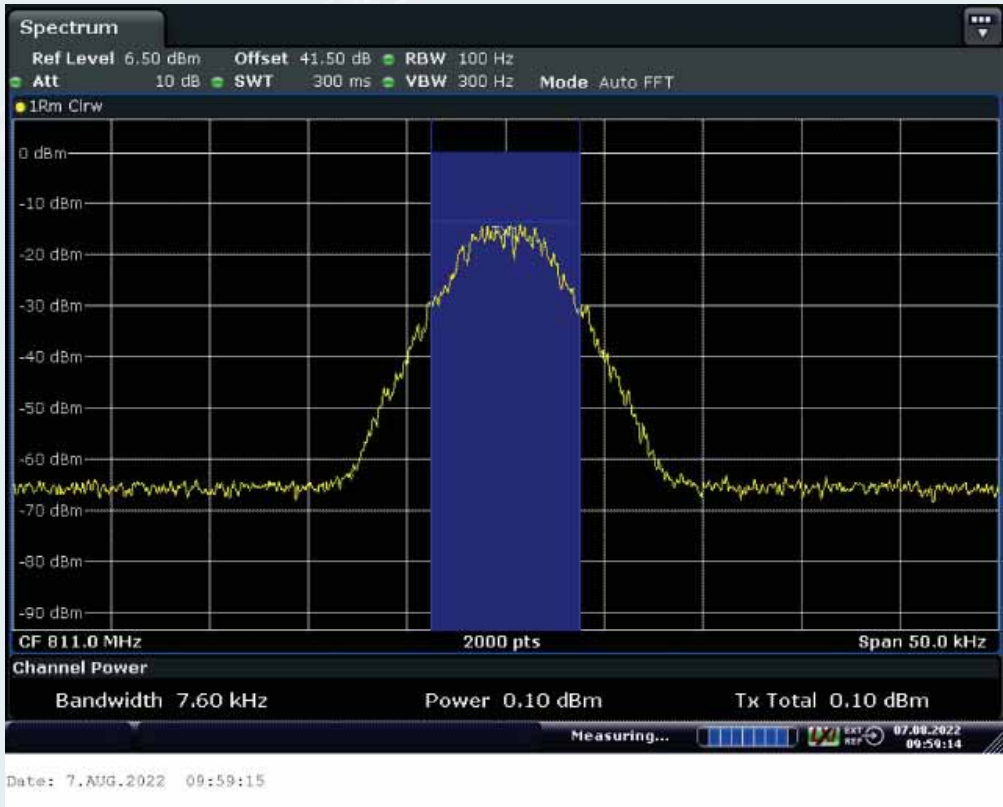
10.5.5.3.2.3.1. Downlink



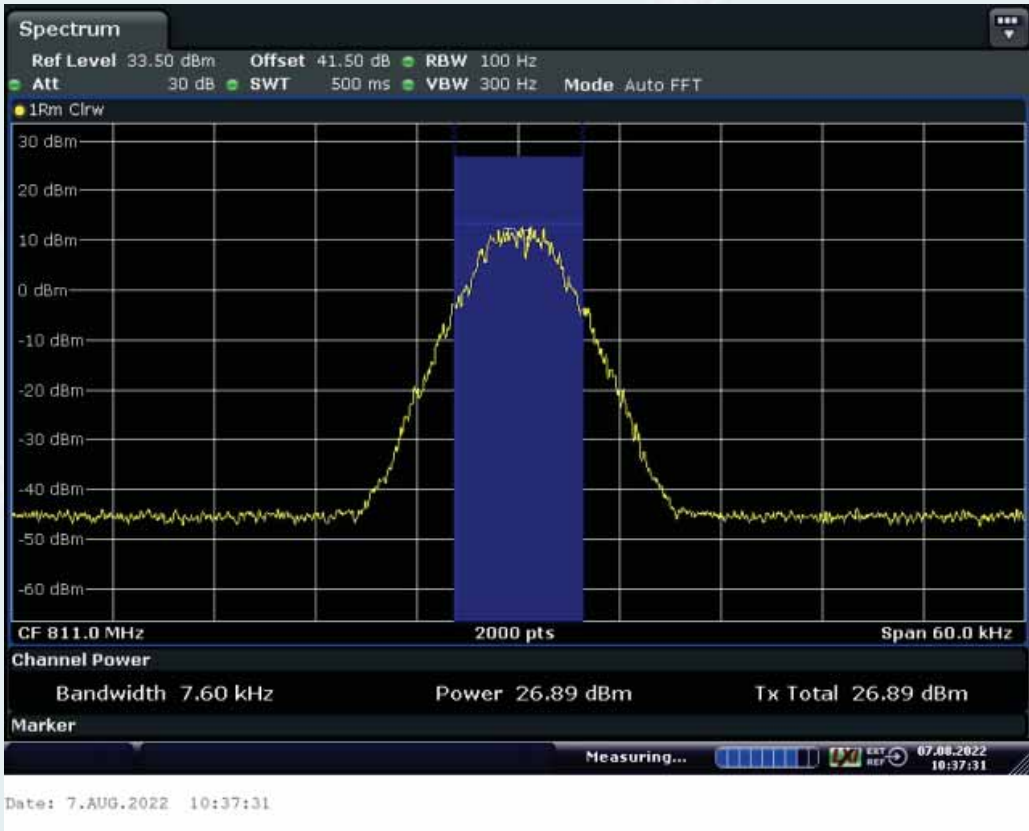


Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

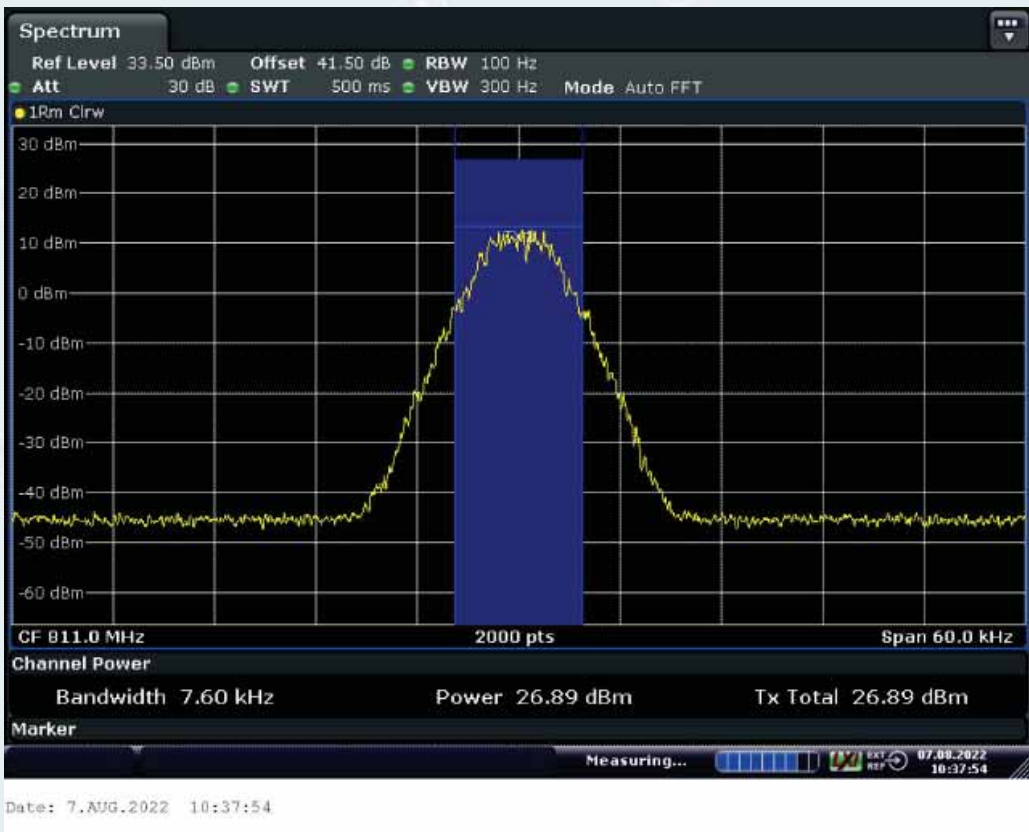
10.5.5.3.2.3.2. Uplink



Middle Frequency: 811.0MHz MHz, Input occupied BW



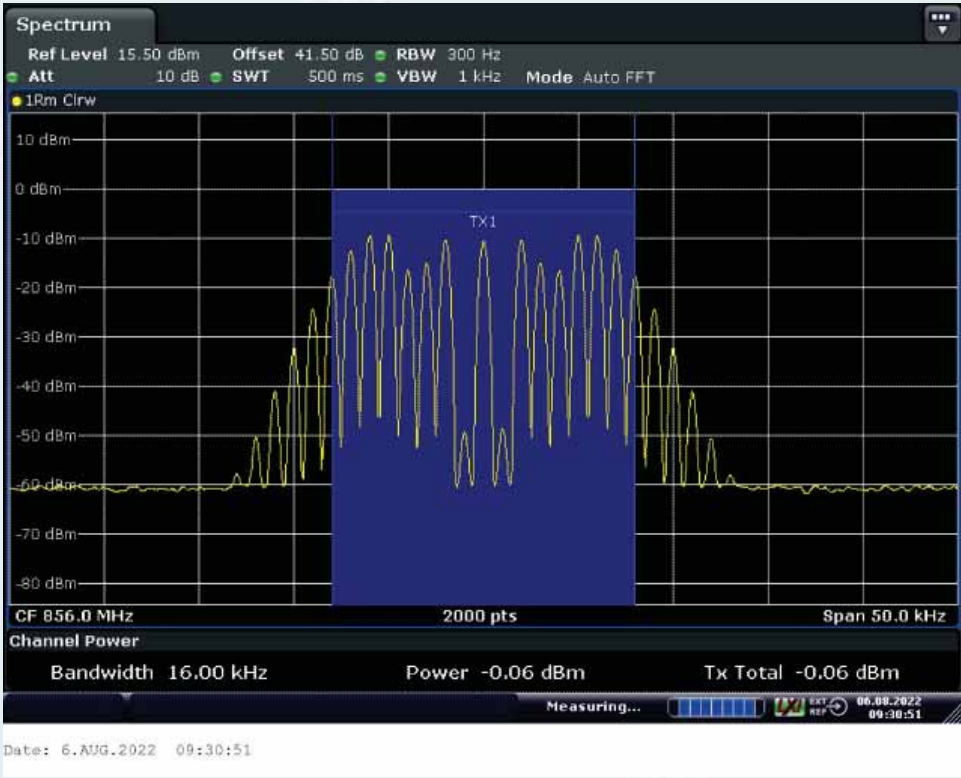
Middle Frequency: 811.0MHz, Output occupied BW(AGC)



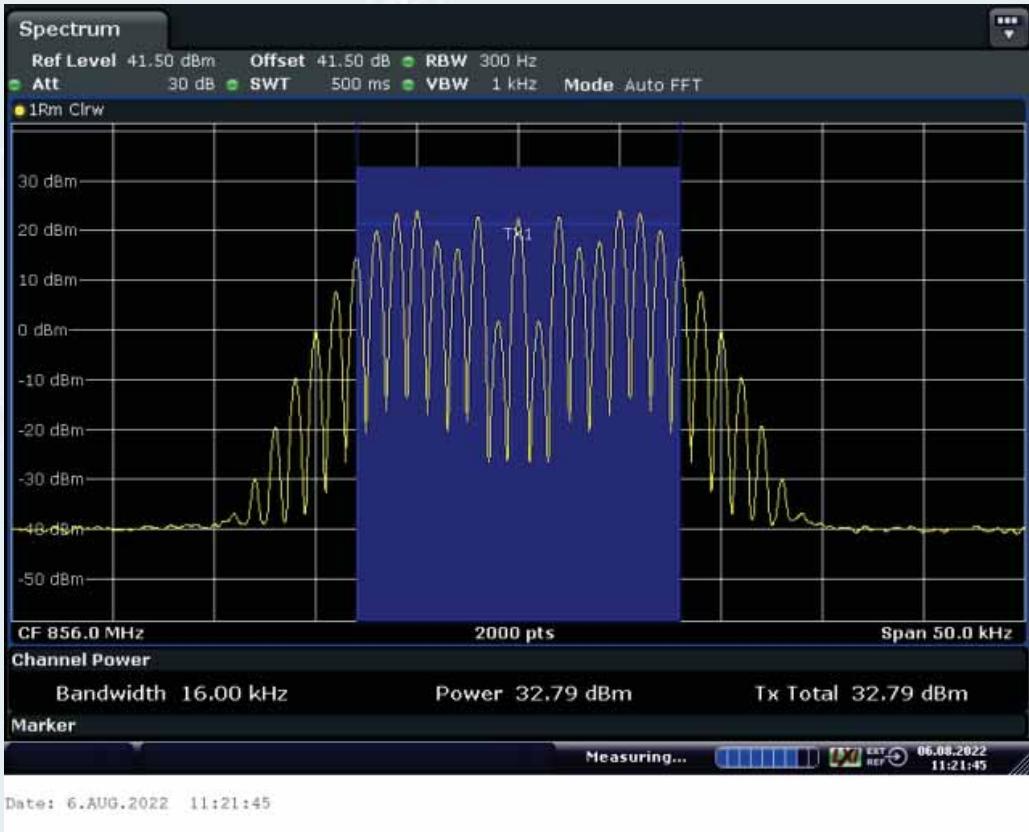
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.2.4. Analog FM

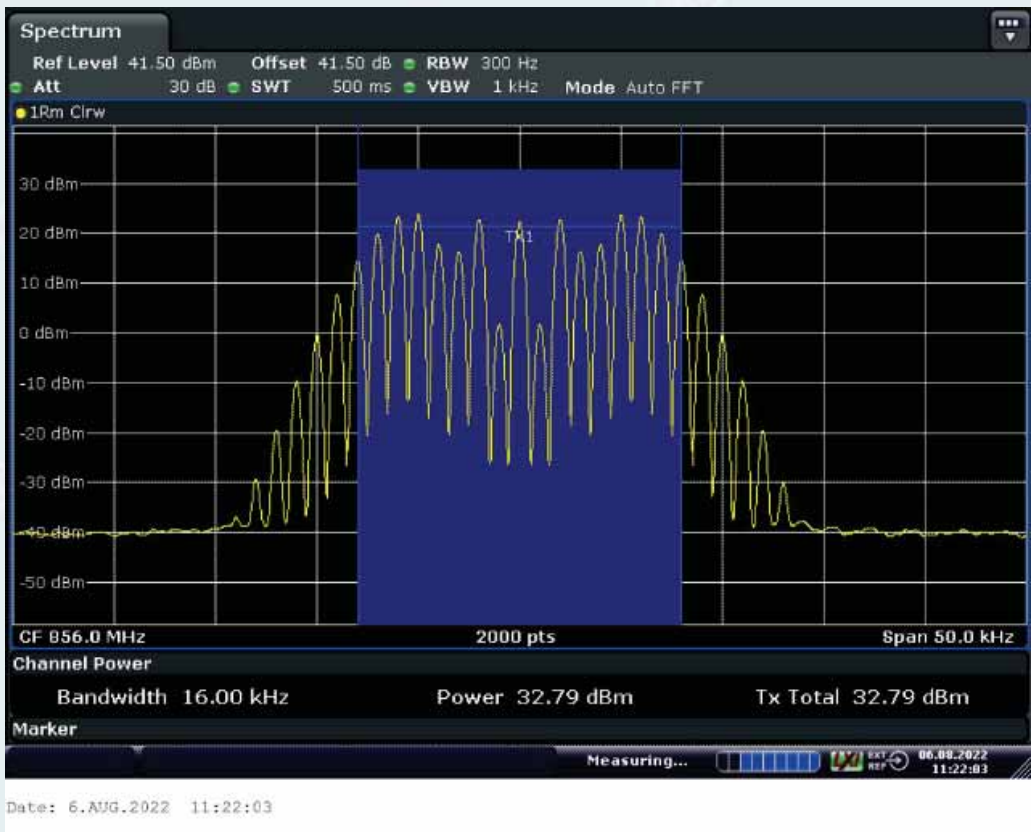
10.5.5.3.2.4.1. Downlink



Middle Frequency: 856.0MHz, Input occupied BW

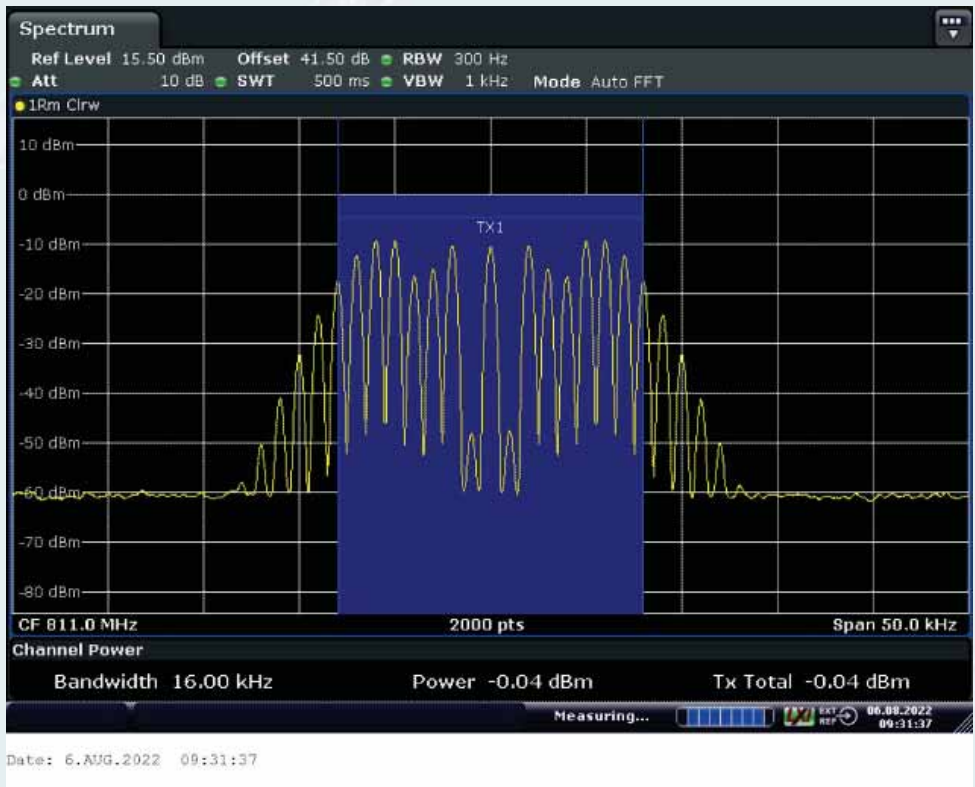


Middle Frequency: 856.0MHz, Output occupied BW(AGC)

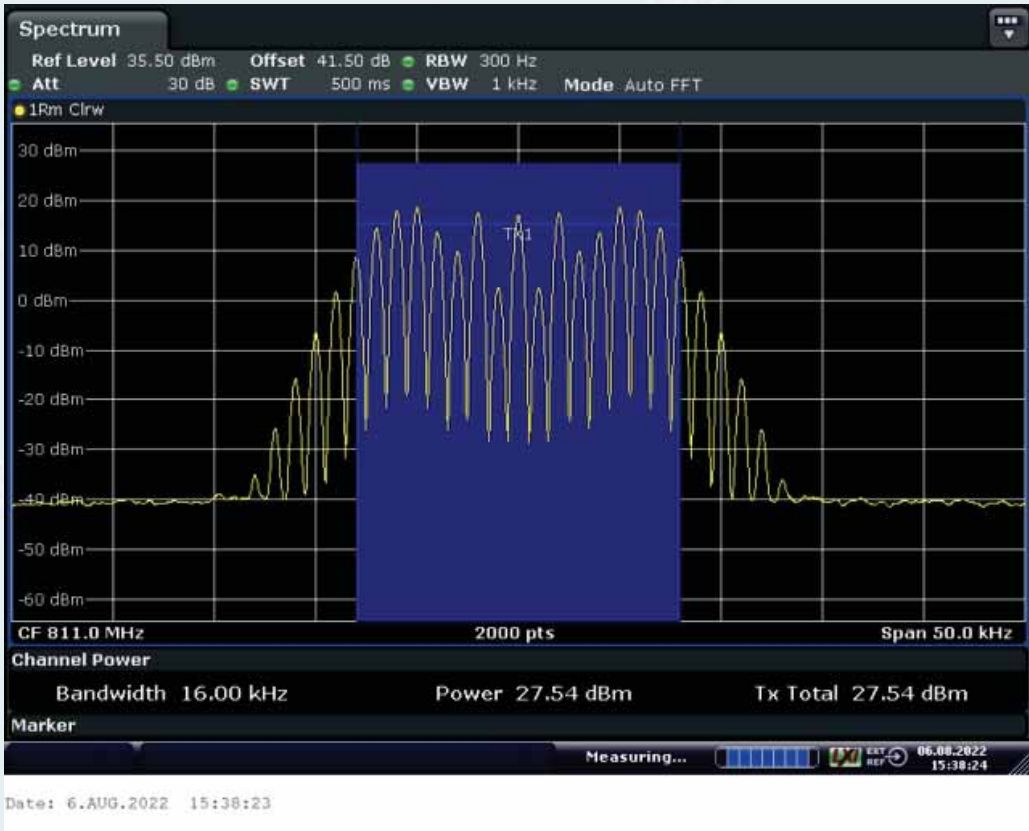


Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

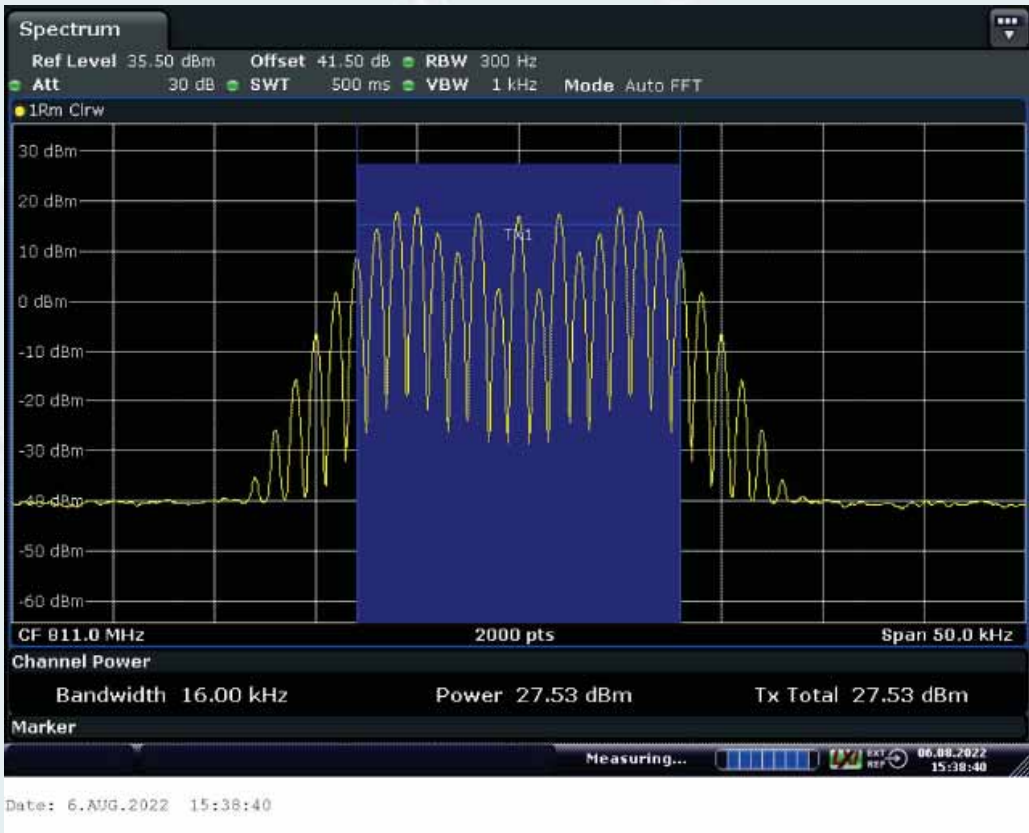
10.5.5.3.2.4.2. Uplink



Middle Frequency: 811.0MHz MHz, Input occupied BW



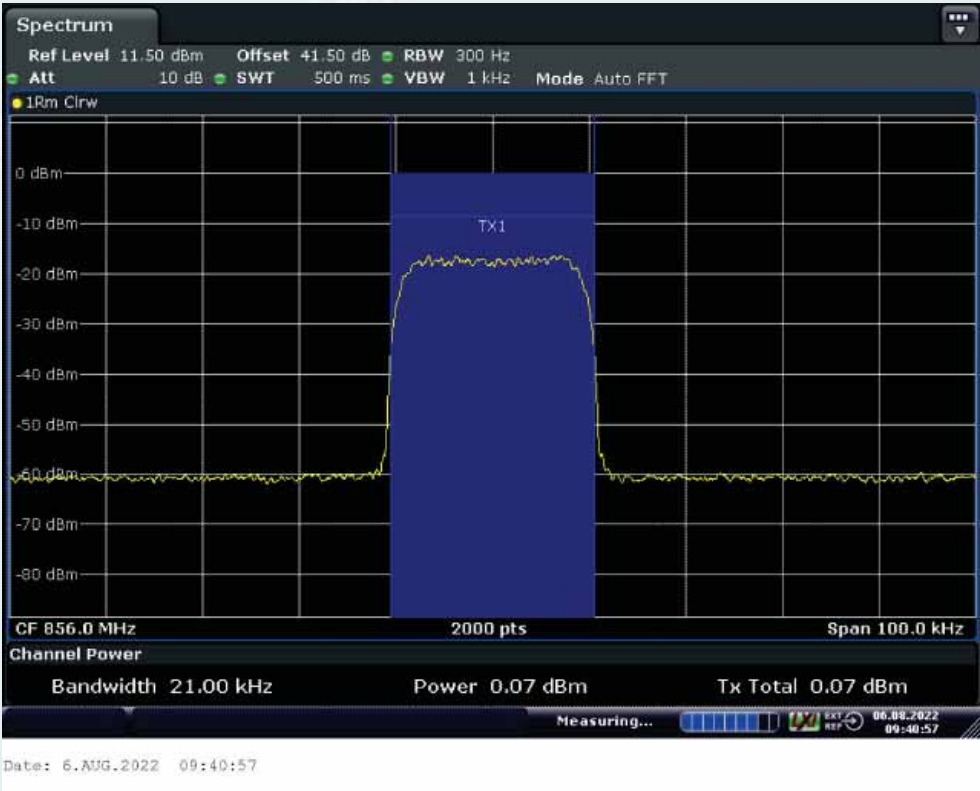
Middle Frequency: 811.0MHz, Output occupied BW(AGC)



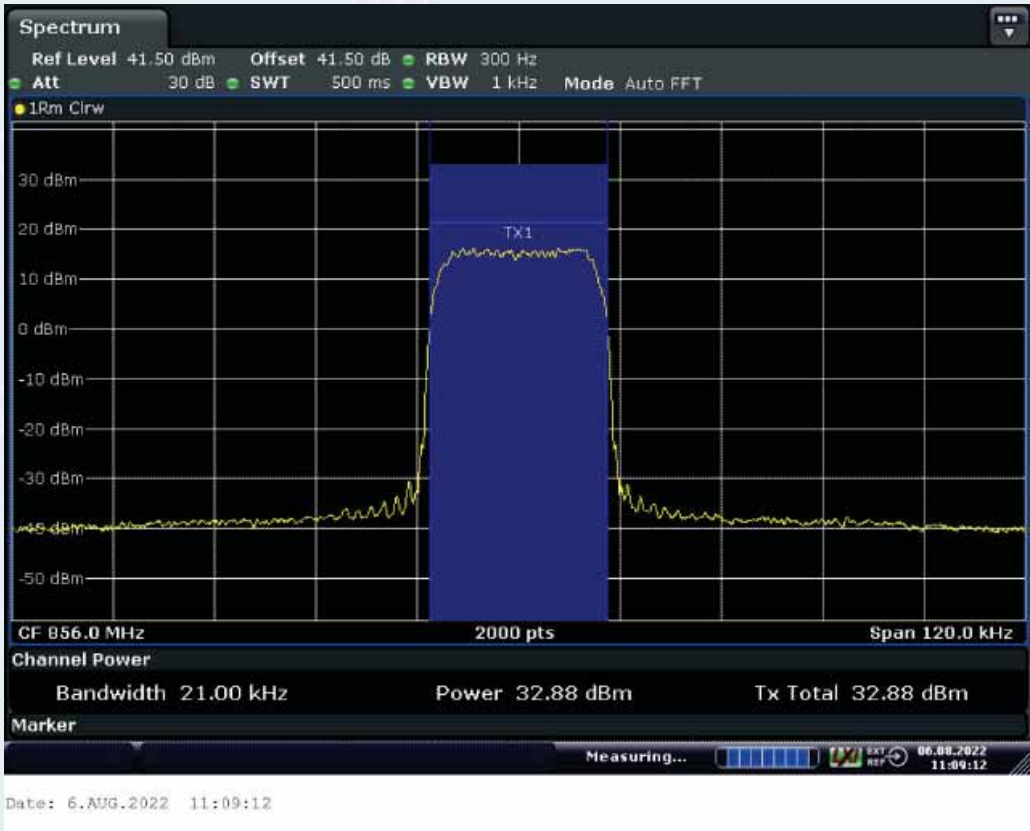
Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.2.5. Tetra

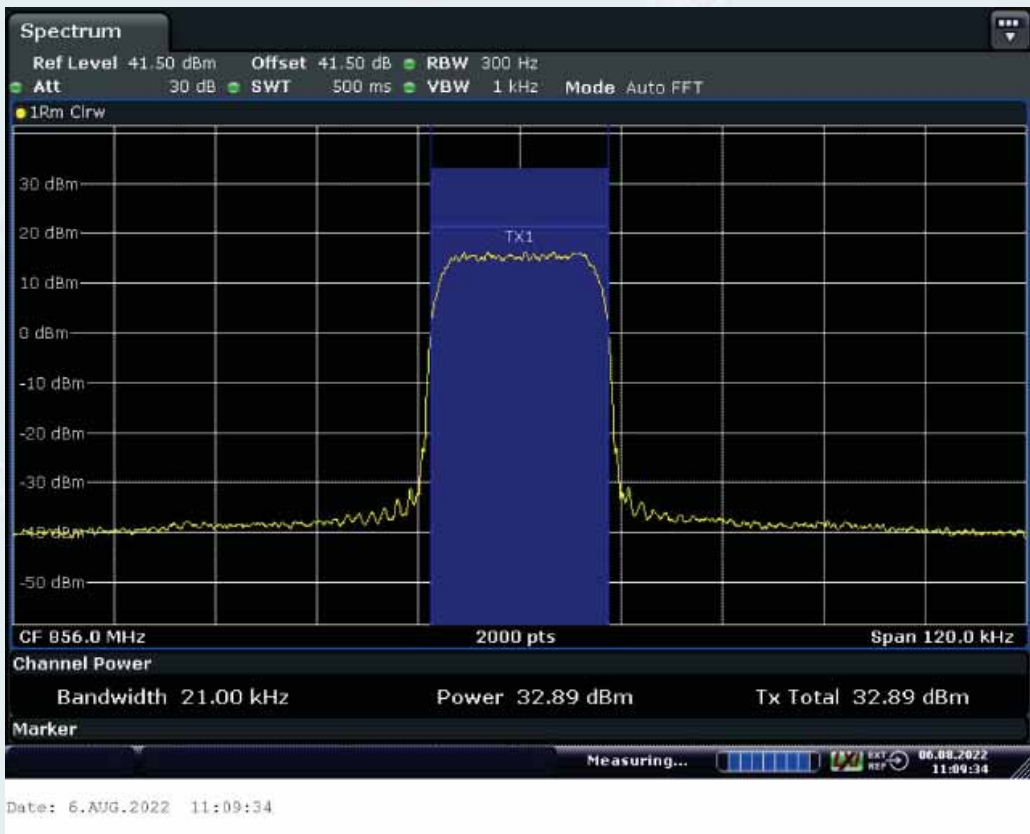
10.5.5.3.2.5.1. Downlink



Middle Frequency: 856.0MHz, Input occupied BW

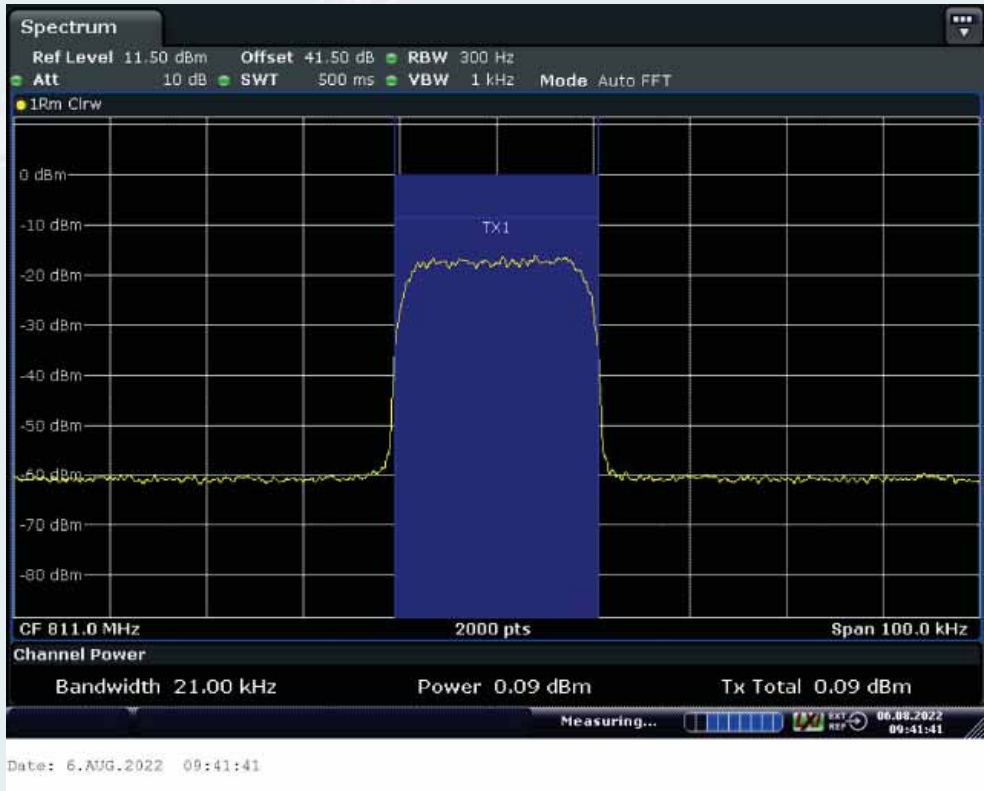


Middle Frequency: 856.0MHz, Output occupied BW(AGC)

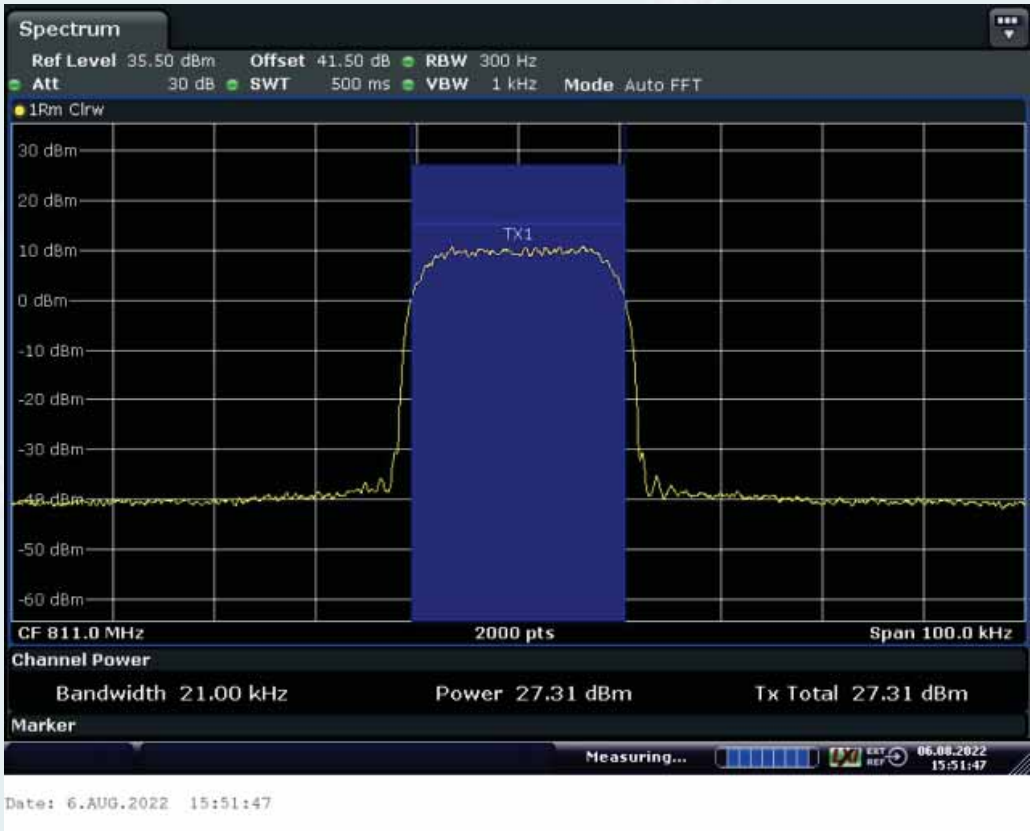


Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

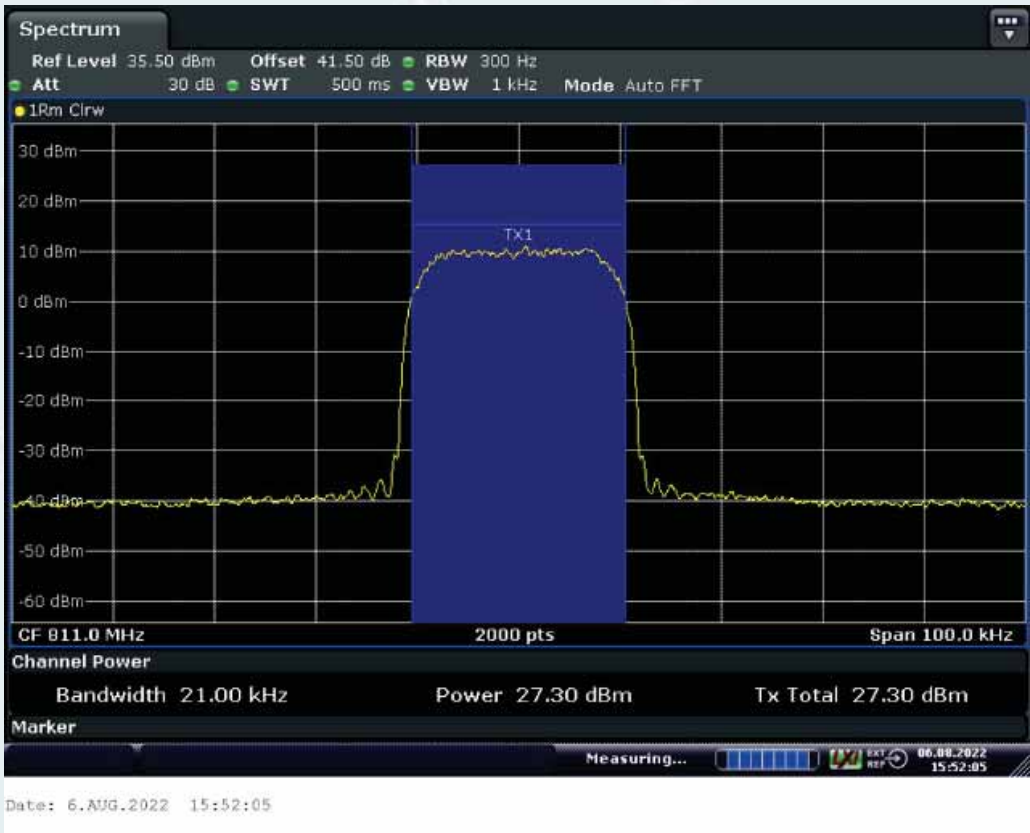
10.5.5.3.2.5.2. Uplink



Middle Frequency: 811.0MHz MHz, Input occupied BW



Middle Frequency: 811.0MHz, Output occupied BW(AGC)



Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.6. Mean power and amplifier/booster gain

Test requirement: KDB 935210 D05 clause 4.5
FCC PART 90.219 (e)(1)

Test Method: KDB 935210 D05 clause 4.5

10.6.1. Requirements

According to KDB 935210 D05 clause 4.5, the mean input and output power and the amplifier gain was measured by adjusting the internal gain control of the EUT to the maximum gain for which equipment certification is sought. Any EUT attenuation settings were set to their minimum value.

Input power levels (Downlink and Uplink) were set to maximum input ratings while confirming that the device is not capable of operating in saturation (Non-linear mode) at the rated input levels, including during the performance of the input/output power measurements.

For FCC PART 90.219 (e)(1) requirement:

(e) Device Specifications. In addition to the general rules for equipment certification in §90.203(a)(2) and part 2, subpart J of this chapter, a signal booster must also meet the rules in this paragraph.

(1) The output power capability of a signal booster must be designed for deployments providing a radiated power not exceeding 5 Watts ERP for each retransmitted channel.

10.6.2. Test configuration

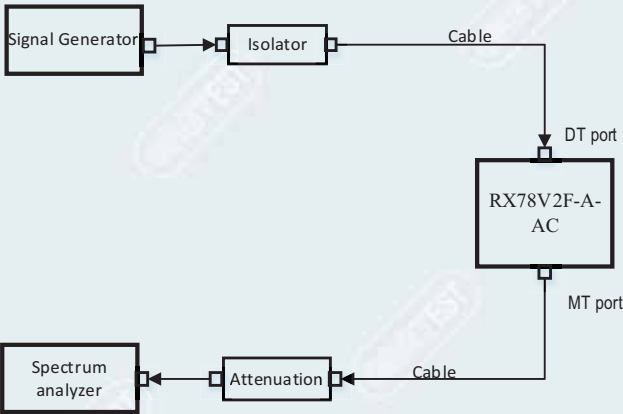


Figure 10.6-1 Downlink connection diagram

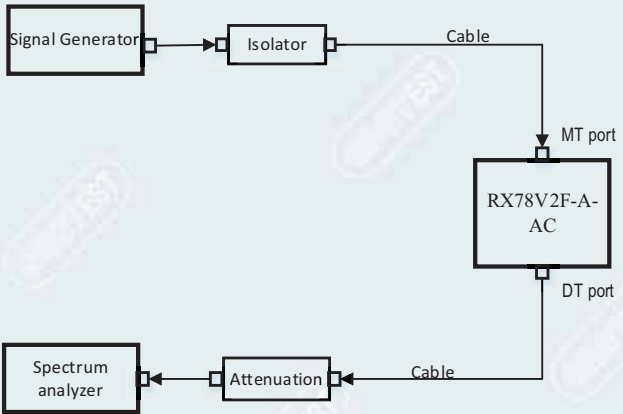


Figure 10.6-2 Uplink connection diagram