

Up ⁽¹⁾	793.0	-62.3	0.7	-13.9	41.5	27.6	0.58	89.2
Up ⁽²⁾	793.0	-59.3	0.7	-13.9	41.5	27.6	0.58	86.2
Up ⁽¹⁾	795.5	-62.7	0.7	-14.1	41.5	27.4	0.55	89.4
Up ⁽²⁾	795.5	-59.7	0.7	-14.1	41.5	27.4	0.55	86.4
2. LTE 10MHz								
Up ⁽¹⁾	793.0	-62.5	0.7	-14.0	41.5	27.5	0.56	89.3
Up ⁽²⁾	793.0	-59.5	0.7	-14.0	41.5	27.5	0.56	86.3
3. P25 Phase I(C4FM)								
Up ⁽¹⁾	798.00625	-62.5	0.7	-14.4	41.5	27.1	0.51	88.9
Up ⁽²⁾	798.00625	-59.5	0.7	-14.4	41.5	27.1	0.51	85.9
Up ⁽¹⁾	801.5	-63.0	0.7	-14.5	41.5	27.0	0.50	89.3
Up ⁽²⁾	801.5	-60.0	0.7	-14.5	41.5	27.0	0.50	86.3
Up ⁽¹⁾	804.99375	-63.5	0.7	-14.6	41.5	26.9	0.49	89.7
Up ⁽²⁾	804.99375	-60.5	0.7	-14.6	41.5	26.9	0.49	86.7
4. P25 Phase II(H-DQPSK)								
Up ⁽¹⁾	798.00625	-62.4	0.7	-14.1	41.5	27.4	0.55	89.1
Up ⁽²⁾	798.00625	-59.4	0.7	-14.1	41.5	27.4	0.55	86.1
Up ⁽¹⁾	801.5	-62.9	0.7	-14.2	41.5	27.3	0.54	89.5
Up ⁽²⁾	801.5	-59.9	0.7	-14.2	41.5	27.3	0.54	86.5
Up ⁽¹⁾	804.99375	-63.4	0.7	-14.3	41.5	27.2	0.52	89.9
Up ⁽²⁾	804.99375	-60.4	0.7	-14.3	41.5	27.2	0.52	86.9
5. DMR								
Up ⁽¹⁾	798.00625	-62.1	0.7	-14.7	41.5	26.8	0.48	88.2
Up ⁽²⁾	798.00625	-59.1	0.7	-14.7	41.5	26.8	0.48	85.2
Up ⁽¹⁾	801.5	-62.6	0.7	-14.8	41.5	26.7	0.47	88.6
Up ⁽²⁾	801.5	-59.6	0.7	-14.8	41.5	26.7	0.47	85.6
Up ⁽¹⁾	804.99375	-63.1	0.7	-14.9	41.5	26.6	0.46	89.0
Up ⁽²⁾	804.99375	-60.1	0.7	-14.9	41.5	26.6	0.46	86.0
6. Analog FM								
Up ⁽¹⁾	798.0125	-62.1	0.7	-14.7	41.5	26.8	0.48	88.2

Up ⁽²⁾	798.0125	-59.1	0.7	-14.7	41.5	26.8	0.48	85.2
Up ⁽¹⁾	801.5	-62.6	0.7	-14.8	41.5	26.7	0.47	88.6
Up ⁽²⁾	801.5	-59.6	0.7	-14.8	41.5	26.7	0.47	85.6
Up ⁽¹⁾	804.9875	-63.1	0.7	-15.0	41.5	26.5	0.45	88.9
Up ⁽²⁾	804.9875	-60.1	0.7	-15.0	41.5	26.5	0.45	85.9
7. Tetra								
Up ⁽¹⁾	798.0125	-61.8	0.7	-14.4	41.5	27.1	0.51	88.2
Up ⁽²⁾	798.0125	-58.8	0.7	-14.4	41.5	27.1	0.51	85.2
Up ⁽¹⁾	801.5	-62.3	0.7	-14.5	41.5	27.0	0.50	88.6
Up ⁽²⁾	801.5	-59.3	0.7	-14.5	41.5	27.0	0.50	85.6
Up ⁽¹⁾	804.9875	-62.8	0.7	-14.6	41.5	26.9	0.49	89.0
Up ⁽²⁾	804.9875	-59.8	0.7	-14.6	41.5	26.9	0.49	86.0

NOTE: ⁽¹⁾ Level is 0.5 dB below AGC threshold; ⁽²⁾ Level is 3dB above AGC threshold.

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

12.16.1.1.2. 800MHz Band

12.16.1.1.2.1. Downlink

Test link	Frequency (MHz)	Sig output power (dBm)	Input Cable Loss (dB)	Peak power (dBm)	Output Atten +Output Cable Loss(dB)	Output power (dBm)	Output power (W)	Gain (dB)
1. P25 Phase I(C4FM)								
Down ⁽¹⁾	851.00625	-57.0	0.7	-9.0	41.5	32.5	1.78	88.8
Down ⁽²⁾	851.00625	-54.0	0.7	-9.0	41.5	32.5	1.78	85.8
Down ⁽¹⁾	856.0	-56.5	0.7	-8.2	41.5	33.3	2.14	89.1
Down ⁽²⁾	856.0	-53.5	0.7	-8.2	41.5	33.3	2.14	86.1
Down ⁽¹⁾	860.99375	-57.5	0.7	-7.7	41.5	33.8	2.40	90.6
Down ⁽²⁾	860.99375	-54.5	0.7	-7.7	41.5	33.8	2.40	87.6
2. P25 Phase II(H-DQPSK)								
Down ⁽¹⁾	851.00625	-56.8	0.7	-8.8	41.5	32.7	1.86	88.8
Down ⁽²⁾	851.00625	-53.8	0.7	-8.8	41.5	32.7	1.86	85.8
Down ⁽¹⁾	856.0	-56.8	0.7	-8.5	41.5	33.0	2.00	89.1
Down ⁽²⁾	856.0	-53.8	0.7	-8.5	41.5	33.0	2.00	86.1
Down ⁽¹⁾	860.99375	-57.8	0.7	-8.0	41.5	33.5	2.24	90.6
Down ⁽²⁾	860.99375	-54.8	0.7	-8.0	41.5	33.5	2.24	87.6
3. DMR								
Down ⁽¹⁾	851.00625	-57.6	0.7	-8.8	41.5	32.7	1.86	89.6
Down ⁽²⁾	851.00625	-54.6	0.7	-8.8	41.5	32.7	1.86	86.6
Down ⁽¹⁾	856.0	-57.8	0.7	-8.3	41.5	33.2	2.09	90.3
Down ⁽²⁾	856.0	-54.8	0.7	-8.3	41.5	33.2	2.09	87.3
Down ⁽¹⁾	860.99375	-58.6	0.7	-7.9	41.5	33.6	2.29	91.5
Down ⁽²⁾	860.99375	-55.6	0.7	-7.9	41.5	33.6	2.29	88.5
4. Analog FM mode								
Down ⁽¹⁾	851.0125	-57.0	0.7	-9.1	41.5	32.4	1.74	88.7
Down ⁽²⁾	851.0125	-54.0	0.7	-9.1	41.5	32.4	1.74	85.7
Down ⁽¹⁾	856.0	-56.5	0.7	-8.3	41.5	33.2	2.09	89.0
Down ⁽²⁾	856.0	-53.5	0.7	-8.3	41.5	33.2	2.09	86.0
Down ⁽¹⁾	860.9875	-57.5	0.7	-7.8	41.5	33.7	2.34	90.5

Down ⁽²⁾	860.9875	-54.5	0.7	-7.8	41.5	33.7	2.34	87.5
5. Tetra								
Down ⁽¹⁾	851.0125	-57.0	0.7	-9.0	41.5	32.5	1.78	88.8
Down ⁽²⁾	851.0125	-54.0	0.7	-9.0	41.5	32.5	1.78	85.8
Down ⁽¹⁾	856.0	-56.5	0.7	-8.2	41.5	33.3	2.14	89.1
Down ⁽²⁾	856.0	-53.5	0.7	-8.2	41.5	33.3	2.14	86.1
Down ⁽¹⁾	860.9875	-57.5	0.7	-7.7	41.5	33.8	2.40	90.6
Down ⁽²⁾	860.9875	-54.5	0.7	-7.7	41.5	33.8	2.40	87.6

NOTE: ⁽¹⁾ Level is 0.5 dB below AGC threshold; ⁽²⁾ Level is 3dB above AGC threshold.

12.16.1.1.2.2. Uplink

Test link	Frequency (MHz)	Sig output power (dBm)	Input Cable Loss (dB)	Peak power (dBm)	Output Atten +Output Cable Loss(dB)	Output power (dBm)	Output power (W)	Gain (dB)
1. P25 Phase I(C4FM)								
Up ⁽¹⁾	806.00625	-62.5	0.7	-14.4	41.5	27.1	0.51	88.9
Up ⁽²⁾	806.00625	-59.5	0.7	-14.4	41.5	27.1	0.51	85.9
Up ⁽¹⁾	811.0	-63.0	0.7	-14.5	41.5	27.0	0.50	89.3
Up ⁽²⁾	811.0	-60.0	0.7	-14.5	41.5	27.0	0.50	86.3
Up ⁽¹⁾	815.99375	-63.5	0.7	-14.6	41.5	26.9	0.49	89.7
Up ⁽²⁾	815.99375	-60.5	0.7	-14.6	41.5	26.9	0.49	86.7
2. P25 Phase II(H-DQPSK)								
Up ⁽¹⁾	806.00625	-62.4	0.7	-14.1	41.5	27.4	0.55	89.1
Up ⁽²⁾	806.00625	-59.4	0.7	-14.1	41.5	27.4	0.55	86.1
Up ⁽¹⁾	811.0	-62.9	0.7	-14.2	41.5	27.3	0.54	89.5
Up ⁽²⁾	811.0	-59.9	0.7	-14.2	41.5	27.3	0.54	86.5
Up ⁽¹⁾	815.99375	-63.4	0.7	-14.3	41.5	27.2	0.52	89.9
Up ⁽²⁾	815.99375	-60.4	0.7	-14.3	41.5	27.2	0.52	86.9
3. DMR								
Up ⁽¹⁾	806.00625	-62.1	0.7	-14.7	41.5	26.8	0.48	88.2
Up ⁽²⁾	806.00625	-59.1	0.7	-14.7	41.5	26.8	0.48	85.2
Up ⁽¹⁾	811.0	-62.6	0.7	-14.8	41.5	26.7	0.47	88.6
Up ⁽²⁾	811.0	-59.6	0.7	-14.8	41.5	26.7	0.47	85.6

Up ⁽¹⁾	815.99375	-63.1	0.7	-14.9	41.5	26.6	0.46	89.0
Up ⁽²⁾	815.99375	-60.1	0.7	-14.9	41.5	26.6	0.46	86.0
4. Analog FM mode								
Up ⁽¹⁾	806.0125	-62.1	0.7	-14.7	41.5	26.8	0.48	88.2
Up ⁽²⁾	806.0125	-59.1	0.7	-14.7	41.5	26.8	0.48	85.2
Up ⁽¹⁾	811.0	-62.6	0.7	-14.8	41.5	26.7	0.47	88.6
Up ⁽²⁾	811.0	-59.6	0.7	-14.8	41.5	26.7	0.47	85.6
Up ⁽¹⁾	815.9875	-63.1	0.7	-15.0	41.5	26.5	0.45	88.9
Up ⁽²⁾	815.9875	-60.1	0.7	-15.0	41.5	26.5	0.45	85.9
5. Tetra								
Up ⁽¹⁾	806.0125	-61.8	0.7	-14.4	41.5	27.1	0.51	88.2
Up ⁽²⁾	806.0125	-58.8	0.7	-14.4	41.5	27.1	0.51	85.2
Up ⁽¹⁾	811.0	-62.3	0.7	-14.5	41.5	27.0	0.50	88.6
Up ⁽²⁾	811.0	-59.3	0.7	-14.5	41.5	27.0	0.50	85.6
Up ⁽¹⁾	815.9875	-62.8	0.7	-14.6	41.5	26.9	0.49	89.0
Up ⁽²⁾	815.9875	-59.8	0.7	-14.6	41.5	26.9	0.49	86.0

NOTE: ⁽¹⁾ Level is 0.5 dB below AGC threshold; ⁽²⁾ Level is 3dB above AGC threshold.

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

12.16.1.2.ERP Calculations

12.16.1.2.1. 700MHz Band

12.16.1.2.1.1. Downlink

Test link	Frequency (MHz)	EUT Max. output power (dBm)	Max. Ant Gain(dBi)	ERP (W)	ERP Limit (W)	AGC Mode
1. LTE 5MHz						
Down	760.5	32.4	3.0	3.5	5.0	-0.5dB Below
Down	760.5	32.4	3.0	3.5	5.0	+3.0dB above
Down	763.0	33.8	3.0	4.8	5.0	-0.5dB Below
Down	763.0	33.8	3.0	4.8	5.0	+3.0dB above
Down	765.5	33.5	3.0	4.5	5.0	-0.5dB Below
Down	765.5	33.5	3.0	4.5	5.0	+3.0dB above
2. LTE 10MHz						
Down	763.0	33.3	3.0	4.3	5.0	-0.5dB Below
Down	763.0	33.3	3.0	4.3	5.0	+3.0dB above
3. P25 Phase I(C4FM)						
Down	768.00625	33.6	3.0	4.6	5.0	-0.5dB Below
Down	768.00625	33.6	3.0	4.6	5.0	+3.0dB above
Down	771.5	33.1	3.0	4.1	5.0	-0.5dB Below
Down	771.5	33.1	3.0	4.1	5.0	+3.0dB above
Down	774.99375	33.4	3.0	4.4	5.0	-0.5dB Below
Down	774.99375	33.4	3.0	4.4	5.0	+3.0dB above
4. P25 Phase II(H-DQPSK)						
Down	768.00625	33.8	3.0	4.8	5.0	-0.5dB Below
Down	768.00625	33.8	3.0	4.8	5.0	+3.0dB above
Down	771.5	33.4	3.0	4.4	5.0	-0.5dB Below
Down	771.5	33.4	3.0	4.4	5.0	+3.0dB above
Down	774.99375	33.5	3.0	4.5	5.0	-0.5dB Below
Down	774.99375	33.5	3.0	4.5	5.0	+3.0dB above
5. DMR						
Down	768.00625	32.6	3.0	3.6	5.0	-0.5dB Below
Down	768.00625	32.6	3.0	3.6	5.0	+3.0dB above
Down	771.5	32.4	3.0	3.5	5.0	-0.5dB Below
Down	771.5	32.4	3.0	3.5	5.0	+3.0dB above

Down	774.99375	32.4	3.0	3.5	5.0	-0.5dB Below
Down	774.99375	32.4	3.0	3.5	5.0	+3.0dB above
6. Analog FM						
Down	768.0125	33.5	3.0	4.5	5.0	-0.5dB Below
Down	768.0125	33.5	3.0	4.5	5.0	+3.0dB above
Down	771.5	33.4	3.0	4.4	5.0	-0.5dB Below
Down	771.5	33.4	3.0	4.4	5.0	+3.0dB above
Down	774.9875	33.2	3.0	4.2	5.0	-0.5dB Below
Down	774.9875	33.2	3.0	4.2	5.0	+3.0dB above
7. Tetra						
Down	768.0125	33.9	3.0	4.9	5.0	-0.5dB Below
Down	768.0125	33.9	3.0	4.9	5.0	+3.0dB above
Down	771.5	33.3	3.0	4.3	5.0	-0.5dB Below
Down	771.5	33.3	3.0	4.3	5.0	+3.0dB above
Down	774.9875	33.2	3.0	4.2	5.0	-0.5dB Below
Down	774.9875	33.2	3.0	4.2	5.0	+3.0dB above

12.16.1.2.1.2. Uplink

Test link	Frequency (MHz)	EUT Max. output power (dBm)	Max. Ant Gain(dBi)	ERP (W)	ERP Limit (W)	AGC Mode
1. LTE 5MHz						
Up	790.5	27.4	9.0	4.4	5.0	-0.5dB Below
Up	790.5	27.4	9.0	4.4	5.0	+3.0dB above
Up	793.0	27.6	9.0	4.6	5.0	-0.5dB Below
Up	793.0	27.6	9.0	4.6	5.0	+3.0dB above
Up	795.5	27.4	9.0	4.4	5.0	-0.5dB Below
Up	795.5	27.4	9.0	4.4	5.0	+3.0dB above
2. LTE 10MHz						
Up	793.0	27.5	9.0	4.5	5.0	-0.5dB Below
Up	793.0	27.5	9.0	4.5	5.0	+3.0dB above
3. P25 Phase I(C4FM)						
Up	798.00625	27.1	9.0	4.1	5.0	-0.5dB Below
Up	798.00625	27.1	9.0	4.1	5.0	+3.0dB above
Up	801.5	27.0	9.0	4.0	5.0	-0.5dB Below

Up	801.5	27.0	9.0	4.0	5.0	+3.0dB above
Up	804.99375	26.9	9.0	3.9	5.0	-0.5dB Below
Up	804.99375	26.9	9.0	3.9	5.0	+3.0dB above
4. P25 Phase II(H-DQPSK)						
Up	798.00625	27.4	9.0	4.4	5.0	-0.5dB Below
Up	798.00625	27.4	9.0	4.4	5.0	+3.0dB above
Up	801.5	27.3	9.0	4.3	5.0	-0.5dB Below
Up	801.5	27.3	9.0	4.3	5.0	+3.0dB above
Up	804.99375	27.2	9.0	4.2	5.0	-0.5dB Below
Up	804.99375	27.2	9.0	4.2	5.0	+3.0dB above
5. DMR						
Up	798.00625	26.8	9.0	3.8	5.0	-0.5dB Below
Up	798.00625	26.8	9.0	3.8	5.0	+3.0dB above
Up	801.5	26.7	9.0	3.7	5.0	-0.5dB Below
Up	801.5	26.7	9.0	3.7	5.0	+3.0dB above
Up	804.99375	26.6	9.0	3.6	5.0	-0.5dB Below
Up	804.99375	26.6	9.0	3.6	5.0	+3.0dB above
6. Analog FM mode						
Up	798.0125	26.8	9.0	3.8	5.0	-0.5dB Below
Up	798.0125	26.8	9.0	3.8	5.0	+3.0dB above
Up	801.5	26.7	9.0	3.7	5.0	-0.5dB Below
Up	801.5	26.7	9.0	3.7	5.0	+3.0dB above
Up	804.9875	26.5	9.0	3.5	5.0	-0.5dB Below
Up	804.9875	26.5	9.0	3.5	5.0	+3.0dB above
7. Tetra						
Up	798.0125	27.1	9.0	4.1	5.0	-0.5dB Below
Up	798.0125	27.1	9.0	4.1	5.0	+3.0dB above
Up	801.5	27.0	9.0	4.0	5.0	-0.5dB Below
Up	801.5	27.0	9.0	4.0	5.0	+3.0dB above
Up	804.9875	26.9	9.0	3.9	5.0	-0.5dB Below
Up	804.9875	26.9	9.0	3.9	5.0	+3.0dB above

12.16.1.2.2. 800MHz Band

12.16.1.2.2.1. Downlink

Test link	Frequency (MHz)	EUT Max. output power (dBm)	Max. Ant Gain(dBi)	ERP (W)	ERP Limit (W)	AGC Mode
1. P25 Phase I(C4FM)						
Down	851.00625	32.5	3.0	3.5	5.0	-0.5dB Below
Down	851.00625	32.5	3.0	3.5	5.0	+3.0dB above
Down	856.0	33.3	3.0	4.3	5.0	-0.5dB Below
Down	856.0	33.3	3.0	4.3	5.0	+3.0dB above
Down	860.99375	33.8	3.0	4.8	5.0	-0.5dB Below
Down	860.99375	33.8	3.0	4.8	5.0	+3.0dB above
2. P25 Phase II(H-DQPSK)						
Down	851.00625	32.7	3.0	3.7	5.0	-0.5dB Below
Down	851.00625	32.7	3.0	3.7	5.0	+3.0dB above
Down	856.0	33.0	3.0	4.0	5.0	-0.5dB Below
Down	856.0	33.0	3.0	4.0	5.0	+3.0dB above
Down	860.99375	33.5	3.0	4.5	5.0	-0.5dB Below
Down	860.99375	33.5	3.0	4.5	5.0	+3.0dB above
3. DMR						
Down	851.00625	32.7	3.0	3.7	5.0	-0.5dB Below
Down	851.00625	32.7	3.0	3.7	5.0	+3.0dB above
Down	856.0	33.2	3.0	4.2	5.0	-0.5dB Below
Down	856.0	33.2	3.0	4.2	5.0	+3.0dB above
Down	860.99375	33.6	3.0	4.6	5.0	-0.5dB Below
Down	860.99375	33.6	3.0	4.6	5.0	+3.0dB above
4. Analog FM						
Down	851.0125	32.4	3.0	3.5	5.0	-0.5dB Below
Down	851.0125	32.4	3.0	3.5	5.0	+3.0dB above
Down	856.0	33.2	3.0	4.2	5.0	-0.5dB Below
Down	856.0	33.2	3.0	4.2	5.0	+3.0dB above
Down	860.9875	33.7	3.0	4.7	5.0	-0.5dB Below

Down	860.9875	33.7	3.0	4.7	5.0	+3.0dB above
5. Tetra						
Down	851.0125	32.5	3.0	3.5	5.0	-0.5dB Below
Down	851.0125	32.5	3.0	3.5	5.0	+3.0dB above
Down	856.0	33.3	3.0	4.3	5.0	-0.5dB Below
Down	856.0	33.3	3.0	4.3	5.0	+3.0dB above
Down	860.9875	33.8	3.0	4.8	5.0	-0.5dB Below
Down	860.9875	33.8	3.0	4.8	5.0	+3.0dB above

12.16.1.2.2.2. Uplink

Test link	Frequency (MHz)	EUT Max. output power (dBm)	Max. Ant Gain(dBi)	ERP (W)	ERP Limit (W)	AGC Mode
1. P25 Phase I(C4FM)						
Up	806.00625	27.1	9.0	4.1	5.0	-0.5dB Below
Up	806.00625	27.1	9.0	4.1	5.0	+3.0dB above
Up	811.0	27.0	9.0	4.0	5.0	-0.5dB Below
Up	811.0	27.0	9.0	4.0	5.0	+3.0dB above
Up	815.99375	26.9	9.0	3.9	5.0	-0.5dB Below
Up	815.99375	26.9	9.0	3.9	5.0	+3.0dB above
2. P25 Phase II(H-DQPSK)						
Up	806.00625	27.4	9.0	4.4	5.0	-0.5dB Below
Up	806.00625	27.4	9.0	4.4	5.0	+3.0dB above
Up	811.0	27.3	9.0	4.3	5.0	-0.5dB Below
Up	811.0	27.3	9.0	4.3	5.0	+3.0dB above
Up	815.99375	27.2	9.0	4.2	5.0	-0.5dB Below
Up	815.99375	27.2	9.0	4.2	5.0	+3.0dB above
3. DMR						
Up	806.00625	26.8	9.0	3.8	5.0	-0.5dB Below
Up	806.00625	26.8	9.0	3.8	5.0	+3.0dB above
Up	811.0	26.7	9.0	3.7	5.0	-0.5dB Below
Up	811.0	26.7	9.0	3.7	5.0	+3.0dB above

Up	815.99375	26.6	9.0	3.6	5.0	-0.5dB Below
Up	815.99375	26.6	9.0	3.6	5.0	+3.0dB above
4. Analog FM						
Up	806.0125	26.8	9.0	3.8	5.0	-0.5dB Below
Up	806.0125	26.8	9.0	3.8	5.0	+3.0dB above
Up	811.0	26.7	9.0	3.7	5.0	-0.5dB Below
Up	811.0	26.7	9.0	3.7	5.0	+3.0dB above
Up	815.9875	26.5	9.0	3.5	5.0	-0.5dB Below
Up	815.9875	26.5	9.0	3.5	5.0	+3.0dB above
5. Tetra						
Up	806.0125	27.1	9.0	4.1	5.0	-0.5dB Below
Up	806.0125	27.1	9.0	4.1	5.0	+3.0dB above
Up	811.0	27.0	9.0	4.0	5.0	-0.5dB Below
Up	811.0	27.0	9.0	4.0	5.0	+3.0dB above
Up	815.9875	26.9	9.0	3.9	5.0	-0.5dB Below
Up	815.9875	26.9	9.0	3.9	5.0	+3.0dB above

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

12.17. Noise figure

12.17.1. Test results

Test Date (yy-mm-dd): 2022-08-05

Normal condition: Temp:26.6°C, Humid: 50%, Atmospheric Pressure:101kpa

Supply Voltage: AC 110V, 50Hz

12.17.1.1. 700MHz Band

Frequency(MHz)	Max. Limit (dB)	Noise figure data (dB)	Margin (dB)	Result
Downlink: 758~775	9.0	1.66	7.34	PASS
Uplink: 788~805	9.0	2.09	6.91	PASS

NOTE: Margin= specification limit - Noise figure data.

12.17.1.2. 800MHz Band

Frequency(MHz)	Max. Limit (dB)	Noise figure data (dB)	Margin (dB)	Result
Downlink: 851~861	9.0	1.88	7.12	PASS
Uplink: 806~816	9.0	1.93	7.07	PASS

NOTE: Margin= specification limit - Noise figure data.

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

12.17.2. Test screenshot

12.17.2.1. 700MHz Band



Downlink: 758MHz~775MHz



Uplink: 788MHz~805MHz

12.17.2.2. 800MHz Band



Downlink: 851MHz~861MHz



Uplink: 806MHz~816MHz

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

12.18.1. Test results

Test Date (yy-mm-dd): 2022-08-04~2022-08-05

Normal condition: Temp: 26.6~27.1 °C, Humid: 50~52%, Atmospheric Pressure:101kpa

Supply Voltage: AC 110V, 50Hz

12.18.1.1. 700MHz Band

12.18.1.1.1. Downlink Transmit

Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(1) Frequency range: 758MHz~775MHz(758 ~ 768MHz is LTE band)					
(1.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:768.00625MHz f2:768.01875MHz	-13	-20.3	7.3	PASS
	Mid frequency: f1:771.50MHz f2:771.5125MHz	-13	-20.4	7.4	PASS
	High frequency: f1:774.98125MHz f2:774.99375MHz	-13	-20.3	7.3	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:768.00625MHz f2:768.01875MHz	-13	-20.5	7.5	PASS
	Mid frequency: f1:771.50MHz f2:771.5125MHz	-13	-20.4	7.4	PASS
	High frequency: f1:774.98125MHz f2:774.99375MHz	-13	-20.3	7.3	PASS
(1.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:768.0125MHz f2:768.0375MHz	-13	-21.0	8.0	PASS
	Mid frequency: f1:771.50MHz f2:771.525MHz	-13	-21.2	8.2	PASS
	High frequency: f1:774.9625MHz f2:774.9875MHz	-13	-20.9	7.9	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:768.0125MHz f2:768.0375MHz	-13	-20.9	7.9	PASS
	Mid frequency: f1:771.50MHz f2:771.525MHz	-13	-20.9	7.9	PASS
	High frequency: f1:774.9625MHz f2:774.9875MHz	-13	-20.8	7.8	PASS

NOTE 1: Intermodulation products select the worst data record.

NOTE 2: Margin= specification limit -Maximum mark level.

12.18.1.1.2. Uplink Transmit

Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(2) Frequency range: 798MHz~805MHz(788 ~ 798MHz is LTE band)					
(2.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:798.00625MHz f2:798.01875MHz	-13	-23.1	10.1	PASS
	Mid frequency: f1:801.5MHz f2:801.5125MHz	-13	-23.7	10.7	PASS
	High frequency: f1:804.98125MHz f2:804.99375MHz	-13	-24.1	11.1	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:798.00625MHz f2:798.01875MHz	-13	-23.3	10.3	PASS
	Mid frequency: f1:801.5MHz f2:801.5125MHz	-13	-23.8	10.8	PASS
	High frequency: f1:804.98125MHz f2:804.99375MHz	-13	-24.2	11.2	PASS
(2.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:798.0125MHz f2:798.0375MHz	-13	-23.3	10.3	PASS
	Mid frequency: f1:801.5MHz f2:801.525MHz	-13	-24.2	11.2	PASS
	High frequency: f1:804.9625MHz f2:804.9875MHz	-13	-27.1	14.1	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:798.0125MHz f2:798.0375MHz	-13	-23.4	10.4	PASS
	Mid frequency: f1:801.5MHz f2:801.525MHz	-13	-24.2	11.2	PASS
	High frequency: f1:804.9625MHz f2:804.9875MHz	-13	-27.1	14.1	PASS
NOTE 1: Intermodulation products select the worst data record.					
NOTE 2: Margin= specification limit -Maximum mark level.					

12.18.1.2. 800MHz Band

12.18.1.2.1. Downlink Transmit

Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(3) Frequency range: 851MHz~861MHz					
(3.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:851.00625MHz f2:851.01875MHz	-13	-23.3	10.3	PASS
	Mid frequency: f1:856.0MHz f2:856.0125MHz	-13	-21.7	8.7	PASS
	High frequency: f1:860.98125MHz f2:860.99375MHz	-13	-18.3	5.3	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:851.00625MHz f2:851.01875MHz	-13	-23.3	10.3	PASS
	Mid frequency: f1:856.0MHz f2:856.0125MHz	-13	-21.8	8.8	PASS
	High frequency: f1:860.98125MHz f2:860.99375MHz	-13	-18.5	5.5	PASS
(3.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:851.0125MHz f2:851.0375MHz	-13	-22.8	9.8	PASS
	Mid frequency: f1:856.0MHz f2:856.025MHz	-13	-22.7	9.7	PASS
	High frequency: f1:860.9625MHz f2:860.9875MHz	-13	-19.1	6.1	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:851.0125MHz f2:851.0375MHz	-13	-22.7	9.7	PASS
	Mid frequency: f1:856.0MHz f2:856.025MHz	-13	-22.7	9.7	PASS
	High frequency: f1:860.9625MHz f2:860.9875MHz	-13	-19.2	6.2	PASS
NOTE 1: Intermodulation products select the worst data record.					
NOTE 2: Margin= specification limit -Maximum mark level.					

12.18.1.2.2. Uplink Transmit

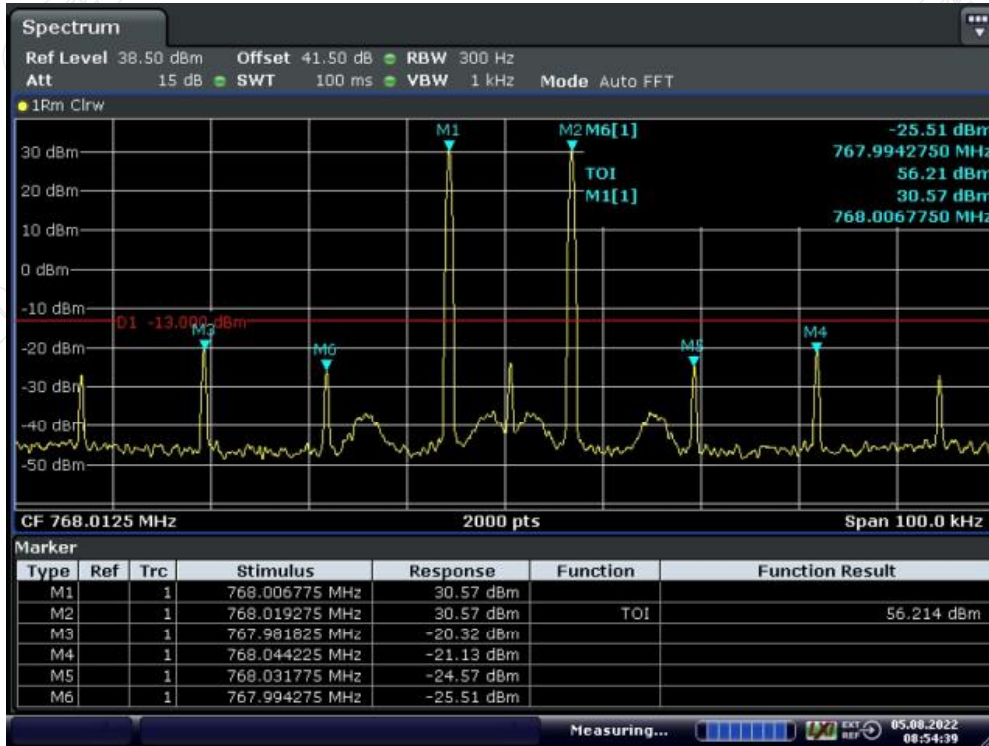
Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(4) Frequency range: 806MHz~816MHz					
(4.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:806.00625MHz f2:806.01875MHz	-13	-24.4	11.4	PASS
	Mid frequency: f1:811.0MHz f2:811.0125MHz	-13	-25.7	12.7	PASS
	High frequency: f1:815.98125MHz f2:815.99375MHz	-13	-25.9	12.9	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:806.00625MHz f2:806.01875MHz	-13	-24.3	11.3	PASS
	Mid frequency: f1:811.0MHz f2:811.0125MHz	-13	-26.0	13.0	PASS
	High frequency: f1:815.98125MHz f2:815.99375MHz	-13	-26.1	13.1	PASS
(4.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:806.0125MHz f2:806.0375MHz	-13	-25.0	12.0	PASS
	Mid frequency: f1:811.0MHz f2:811.025MHz	-13	-26.8	13.8	PASS
	High frequency: f1:815.9625MHz f2:815.9875MHz	-13	-26.2	13.2	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:806.0125MHz f2:806.0375MHz	-13	-25.0	12.0	PASS
	Mid frequency: f1:811.0MHz f2:811.025MHz	-13	-26.9	13.9	PASS
	High frequency: f1:815.9625MHz f2:815.9875MHz	-13	-26.2	13.2	PASS
NOTE 1: Intermodulation products select the worst data record.					
NOTE 2: Margin= specification limit -Maximum mark level.					

12.18.2. Test screenshot

12.18.2.1. 700MHz Band

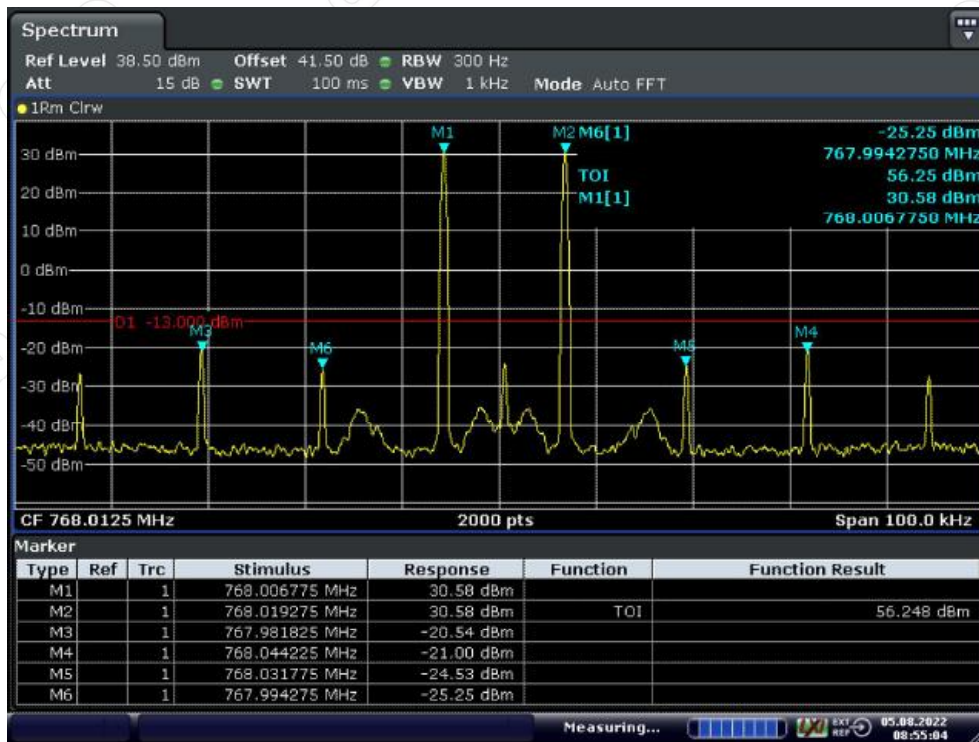
12.18.2.1.1. Channel bandwidth 12.5kHz

12.18.2.1.1.1. Downlink



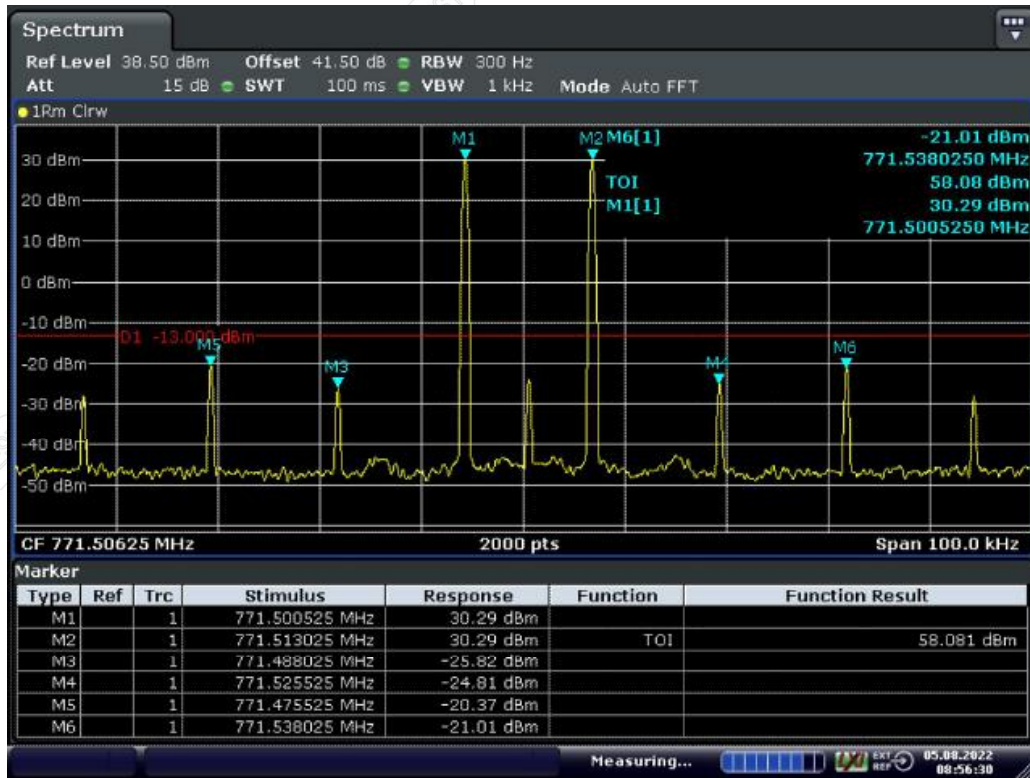
Date: 5.AUG.2022 08:54:40

Low Frequency and with the ALC threshold level



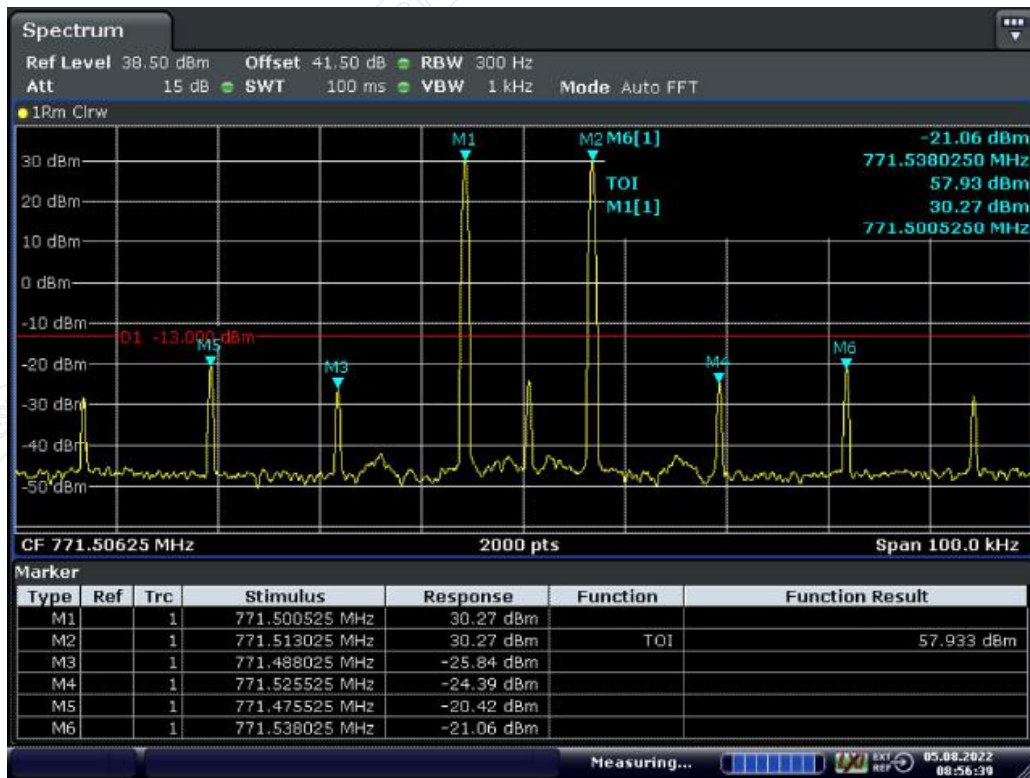
Date: 5.AUG.2022 08:55:04

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



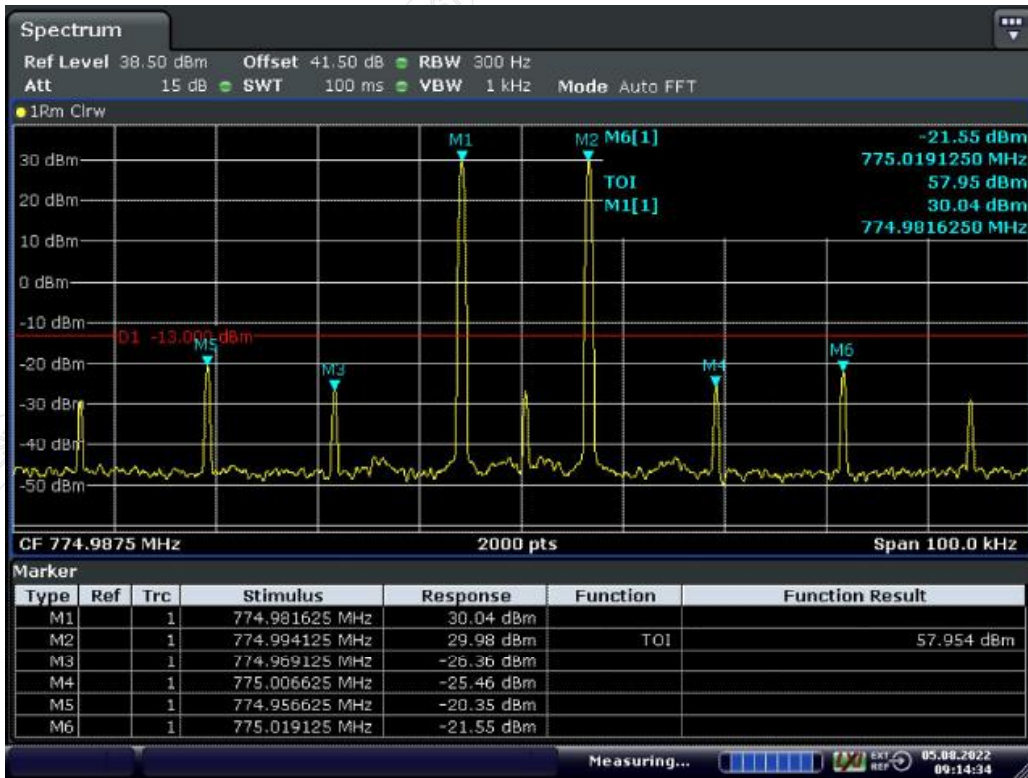
Date: 5.AUG.2022 08:56:30

Mid Frequency and with the ALC threshold level



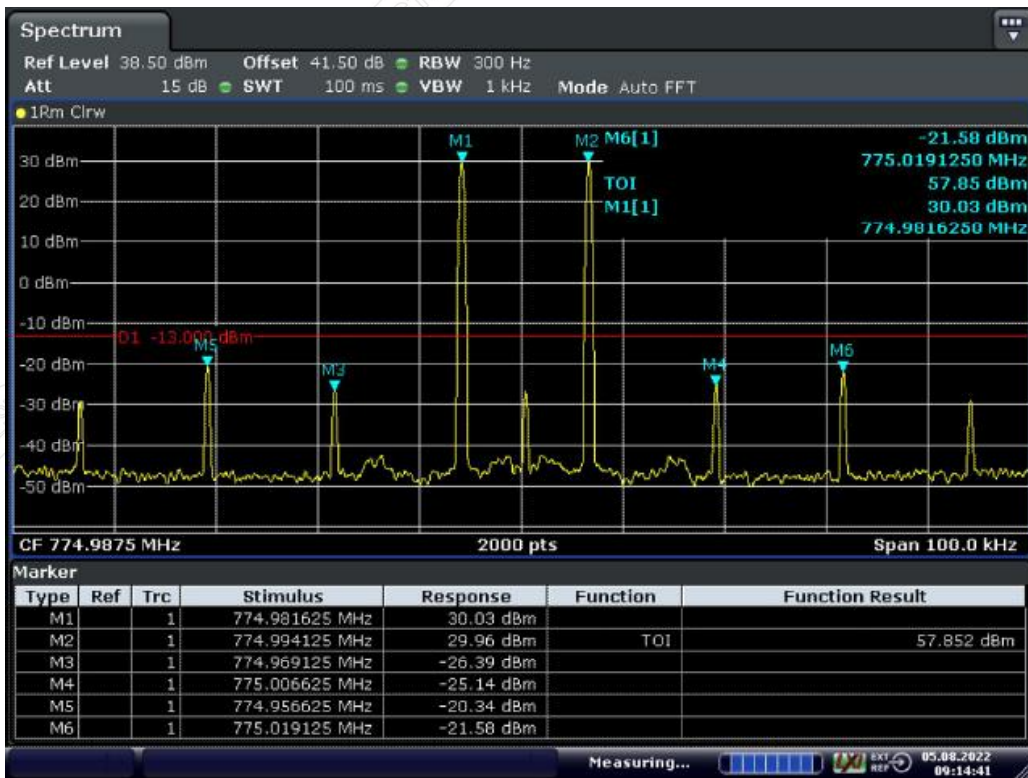
Date: 5.AUG.2022 08:56:39

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



Date: 5.AUG.2022 09:14:34

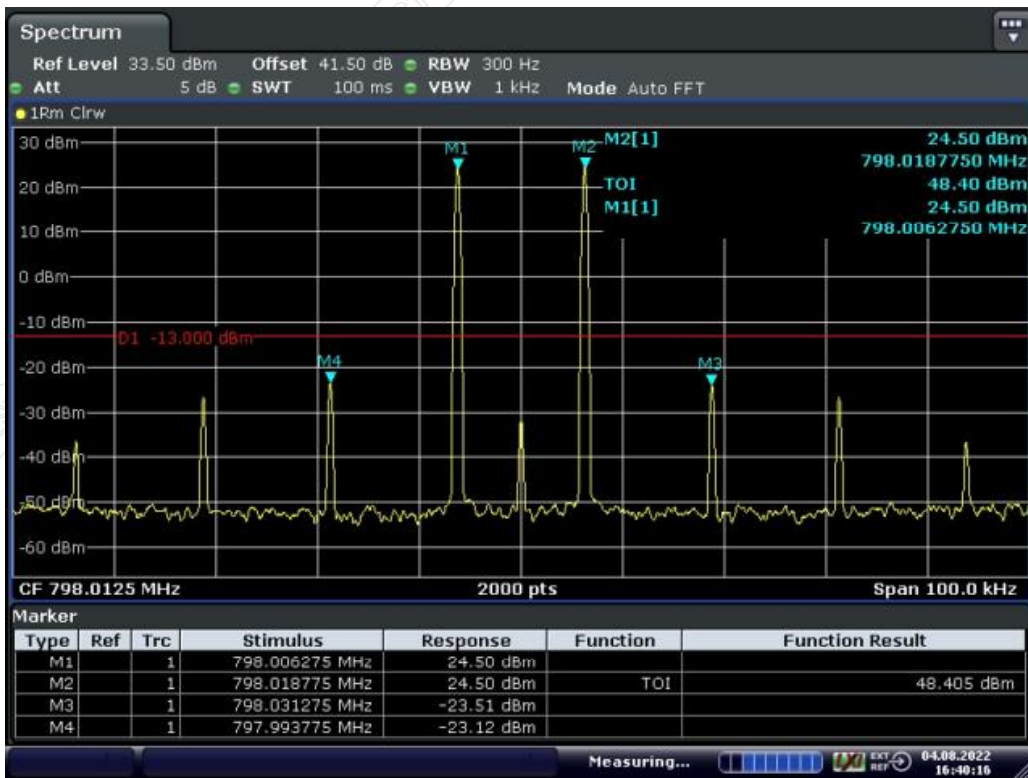
High Frequency and with the ALC threshold level



Date: 5.AUG.2022 09:14:41

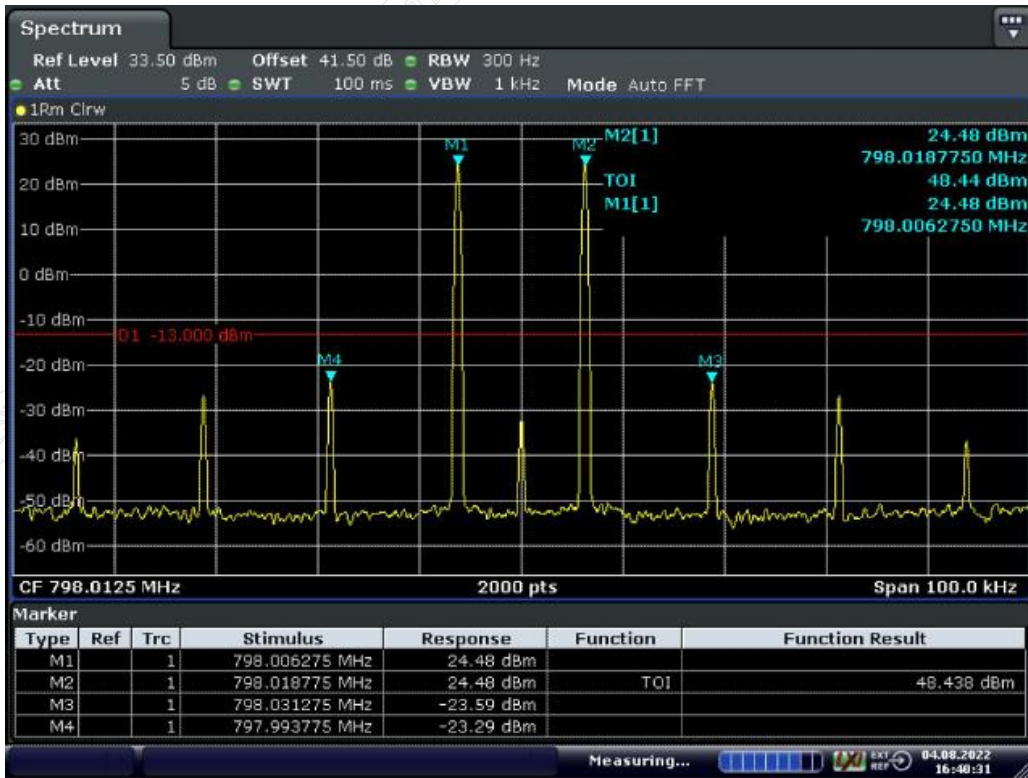
High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

12.18.2.1.1.2. Uplink



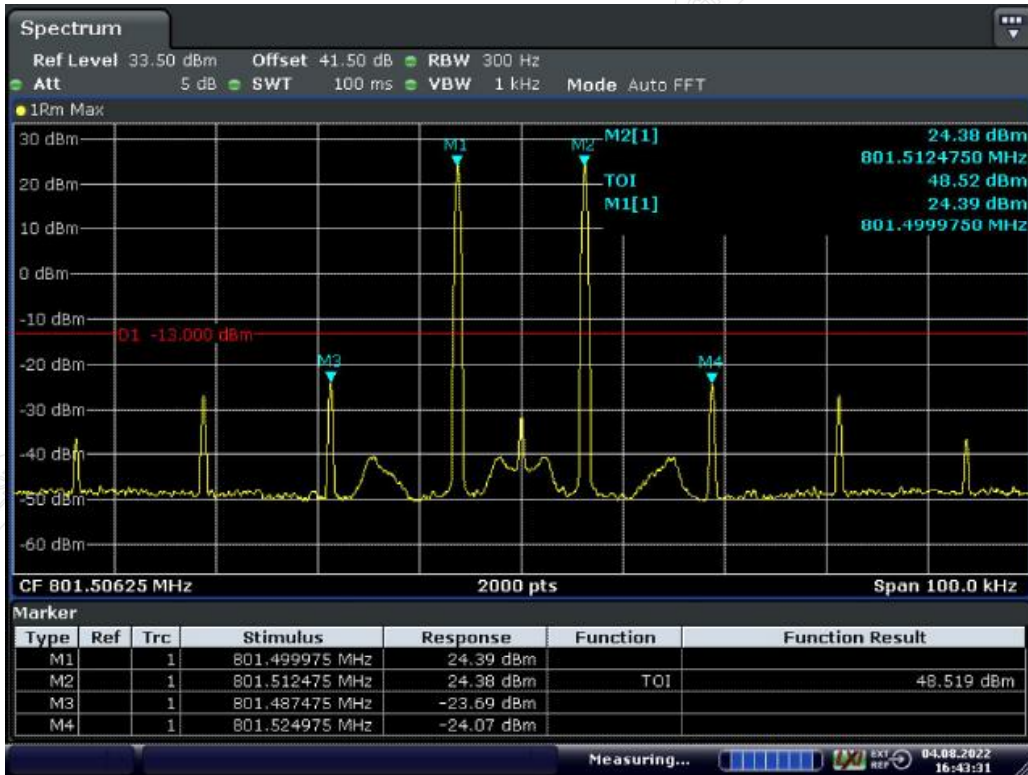
Date: 4.AUG.2022 16:40:17

Low Frequency and with the ALC threshold level



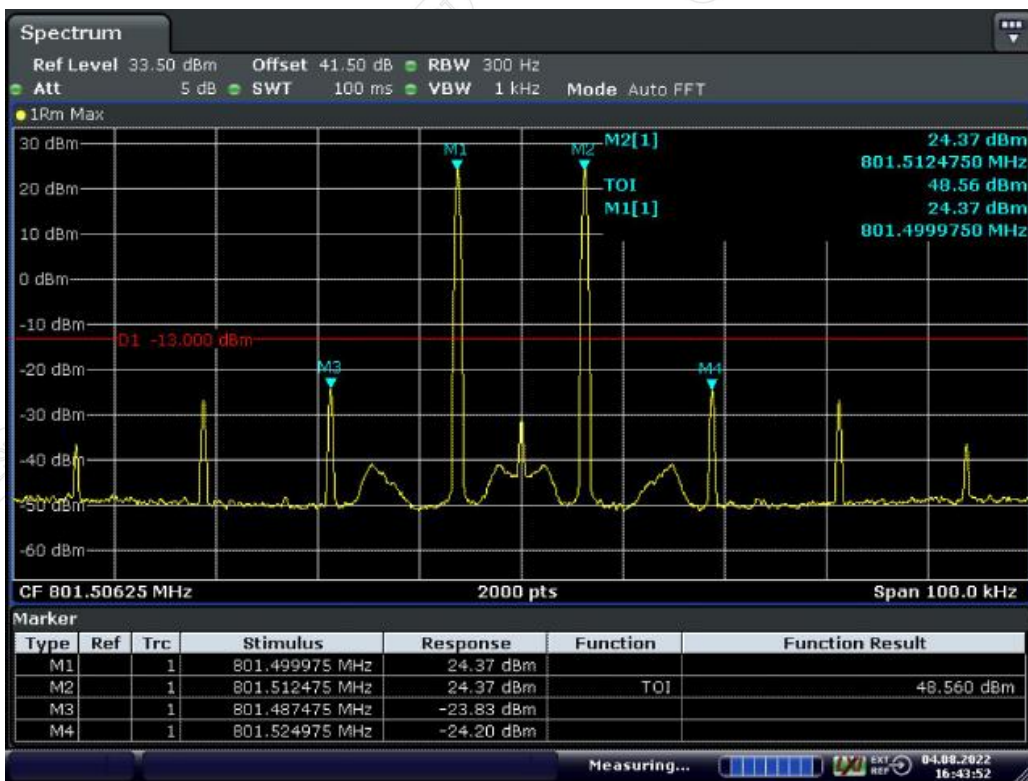
Date: 4.AUG.2022 16:40:31

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



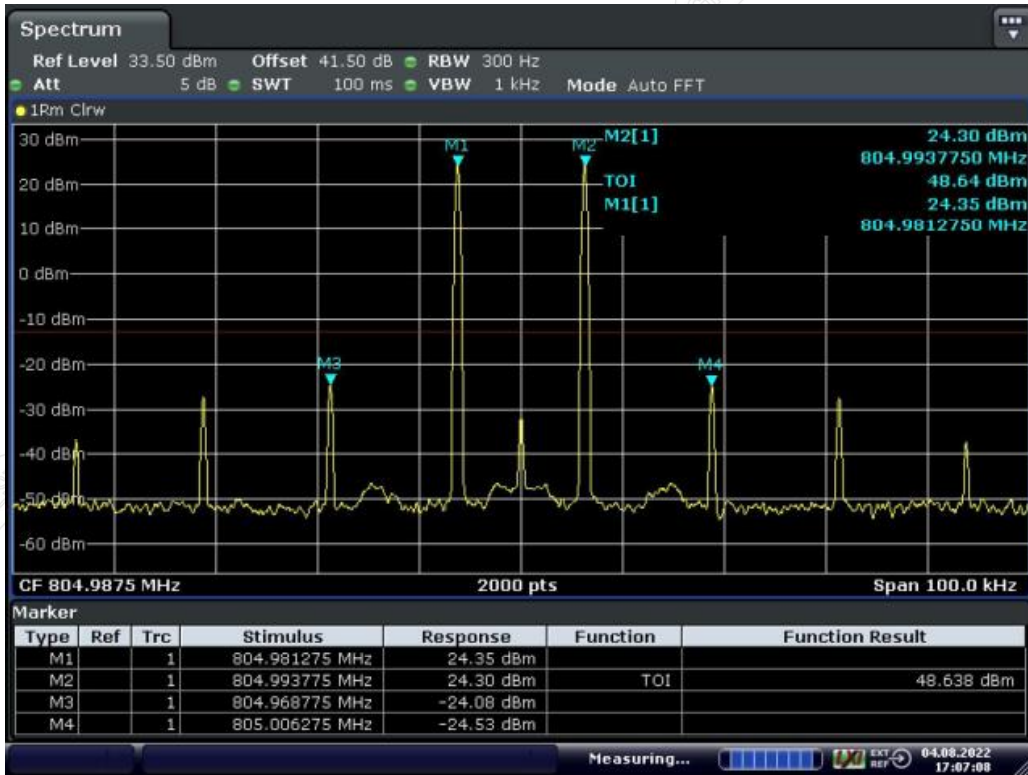
Date: 4.AUG.2022 16:43:31

Mid Frequency and with the ALC threshold level



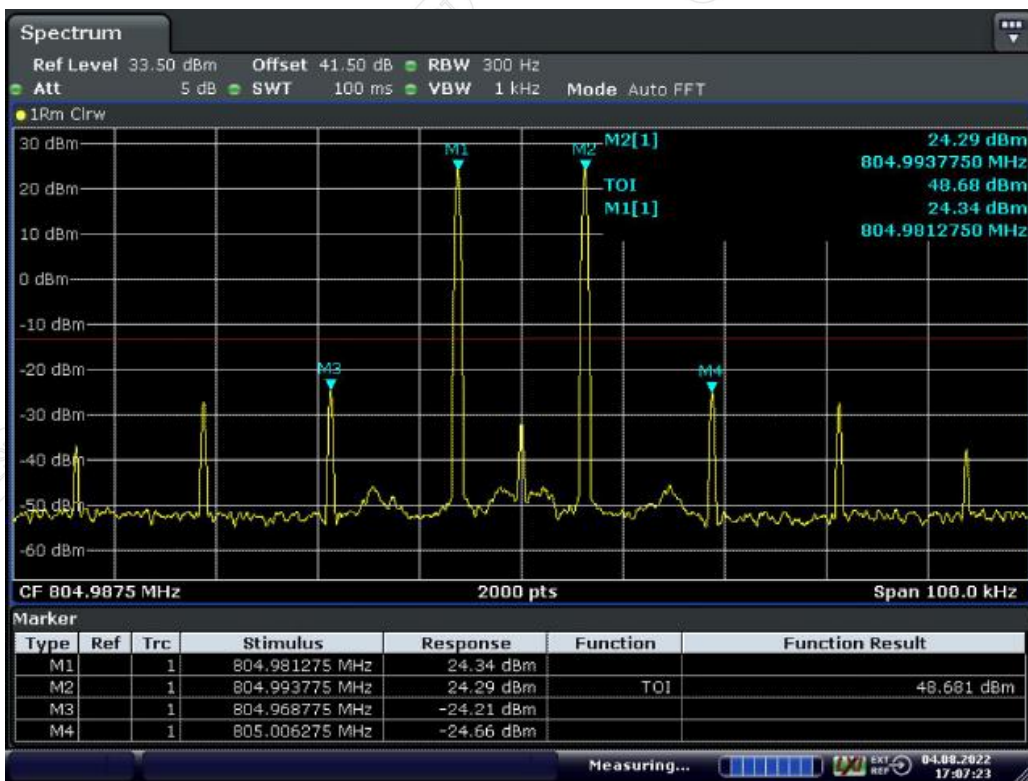
Date: 4.AUG.2022 16:43:52

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



Date: 4.AUG.2022 17:07:08

High Frequency and with the ALC threshold level

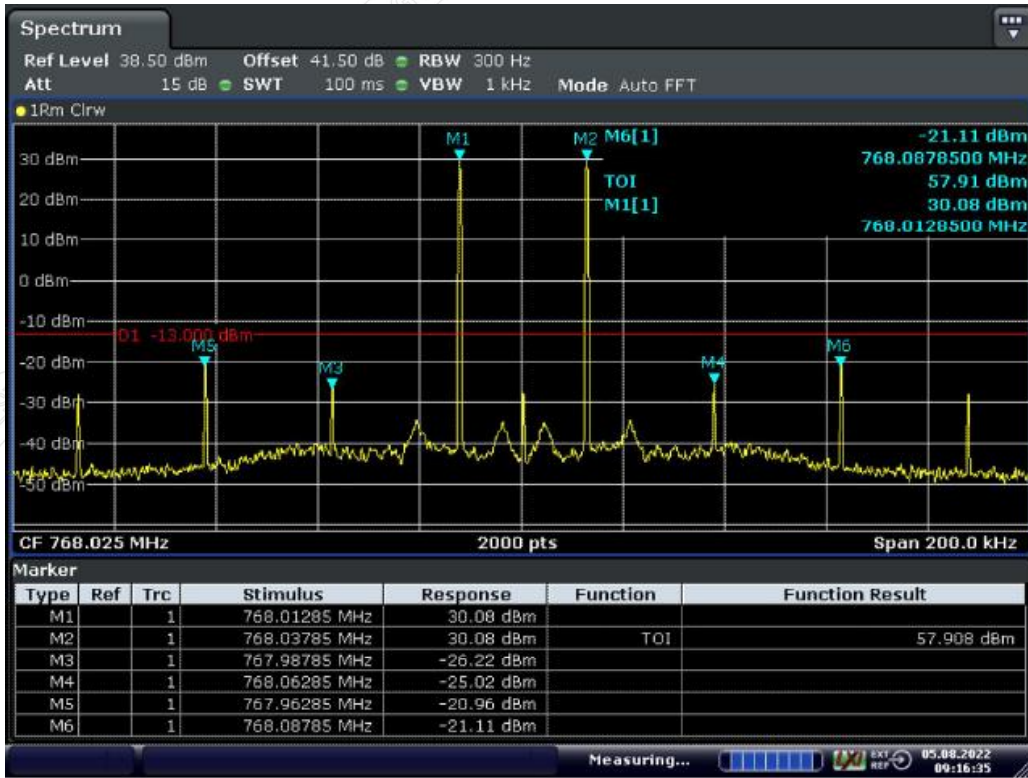


Date: 4.AUG.2022 17:07:24

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

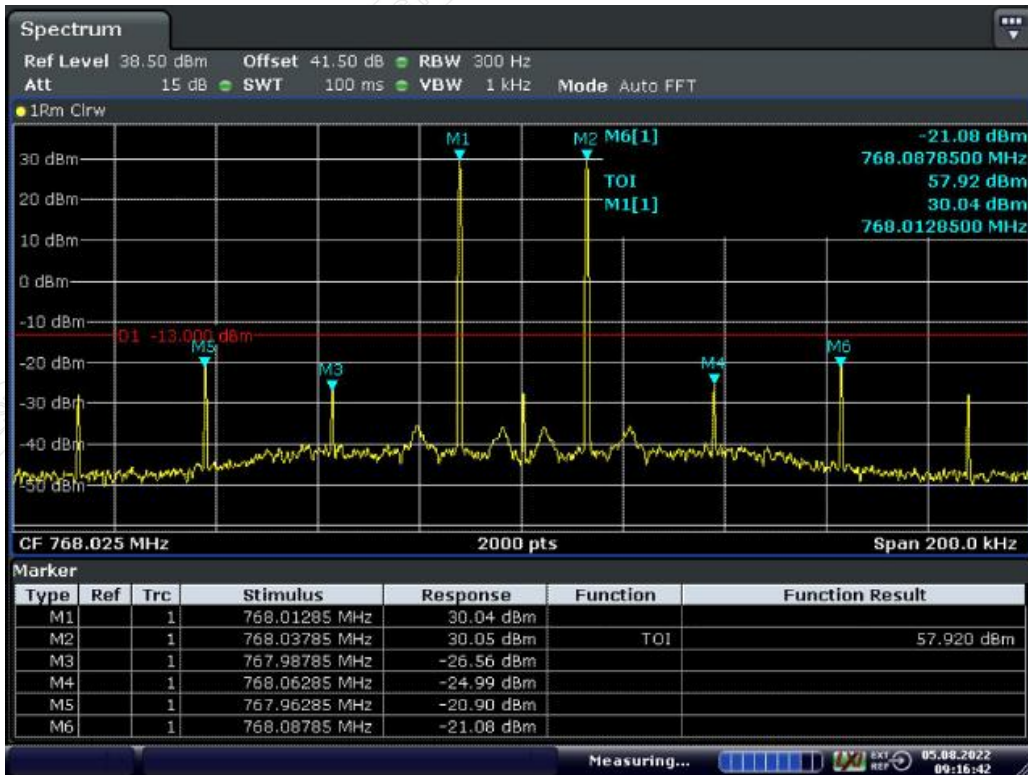
12.18.2.1.2. Channel bandwidth 25kHz

12.18.2.1.2.1. Downlink



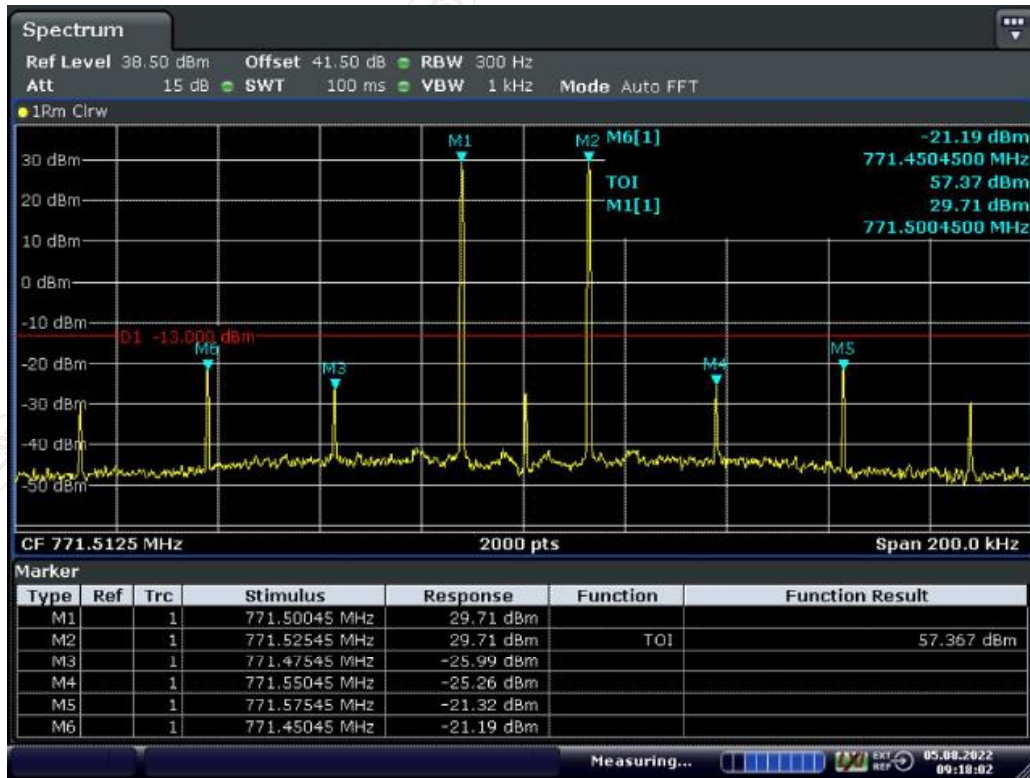
Date: 5.AUG.2022 09:16:35

Low Frequency and with the ALC threshold level



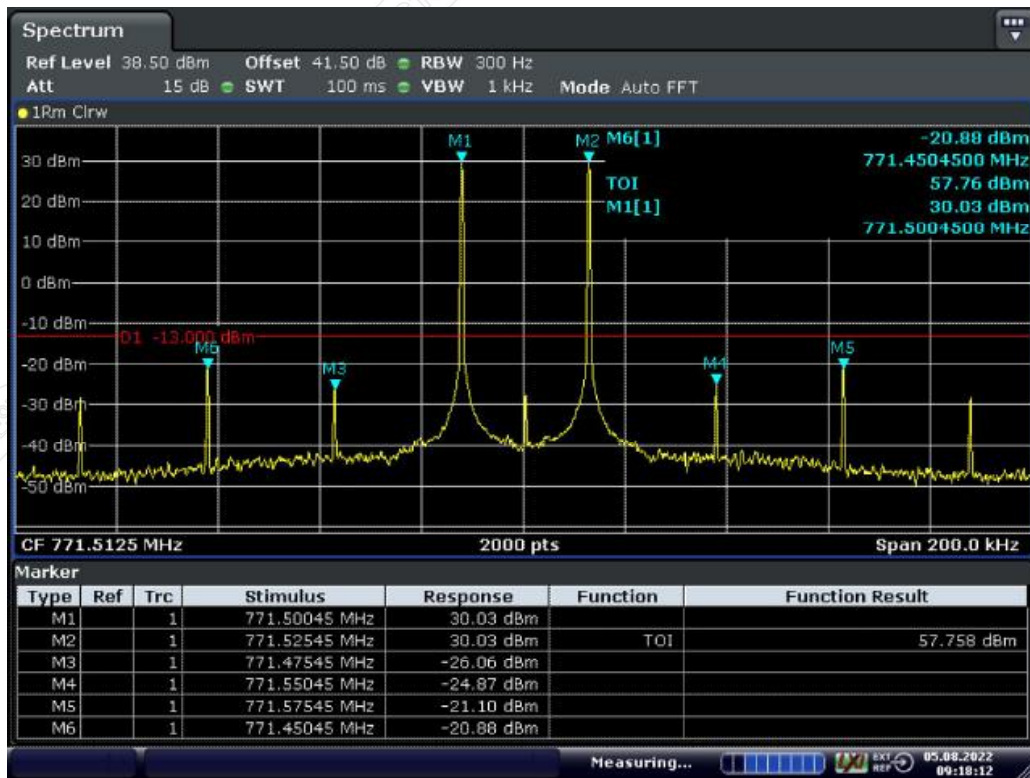
Date: 5.AUG.2022 09:16:43

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



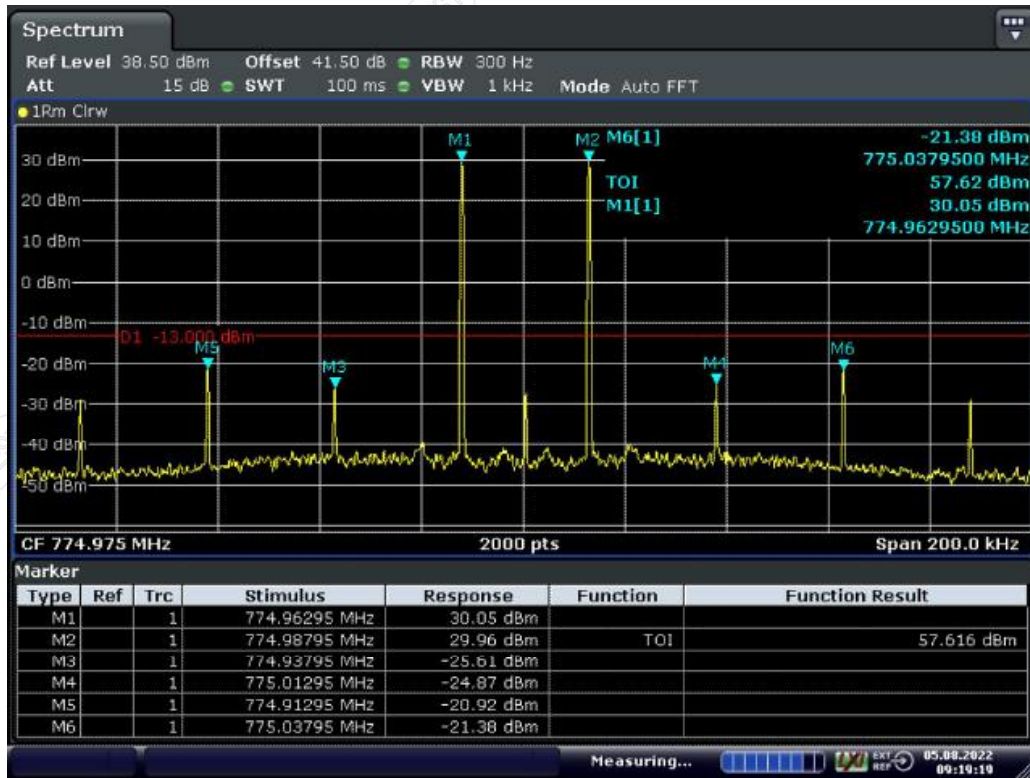
Date: 5.AUG.2022 09:18:02

Mid Frequency and with the ALC threshold level



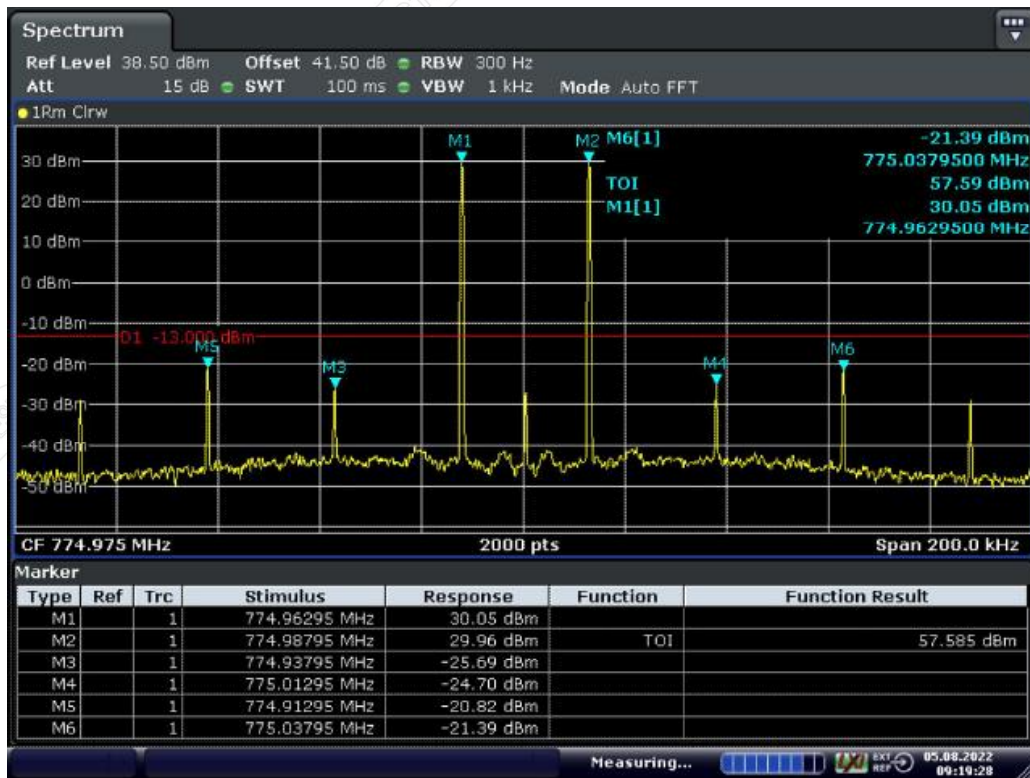
Date: 5.AUG.2022 09:18:13

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



Date: 5.AUG.2022 09:19:19

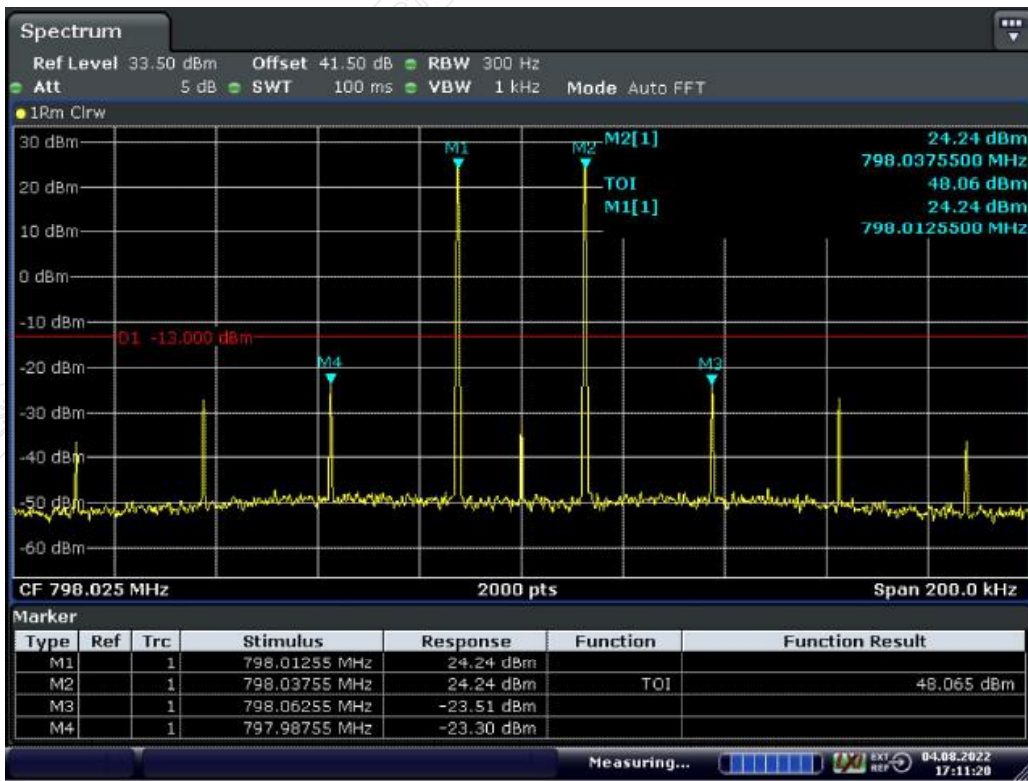
High Frequency and with the ALC threshold level



Date: 5.AUG.2022 09:19:29

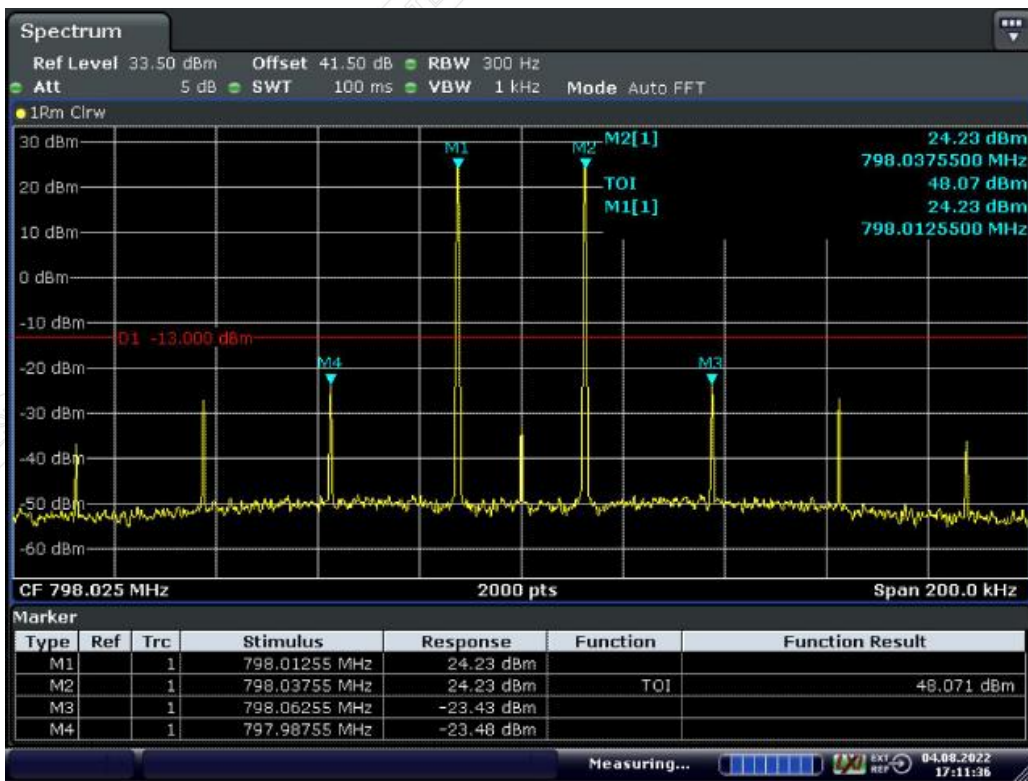
High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

12.18.2.1.2.2. Uplink



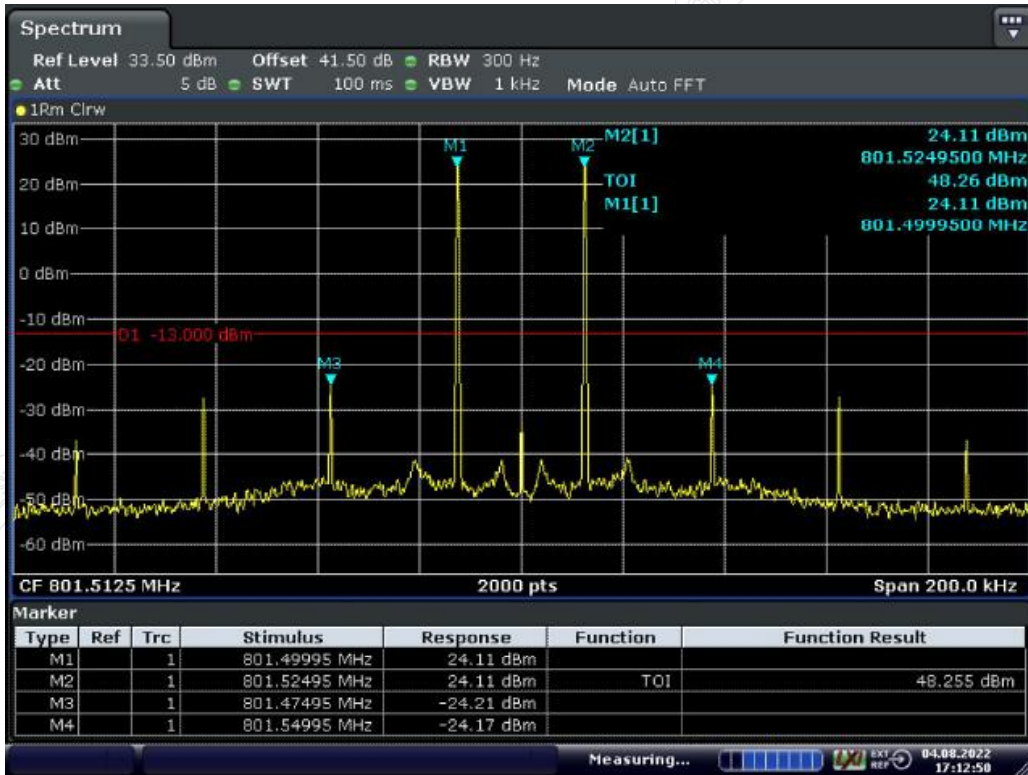
Date: 4.AUG.2022 17:11:20

Low Frequency and with the ALC threshold level



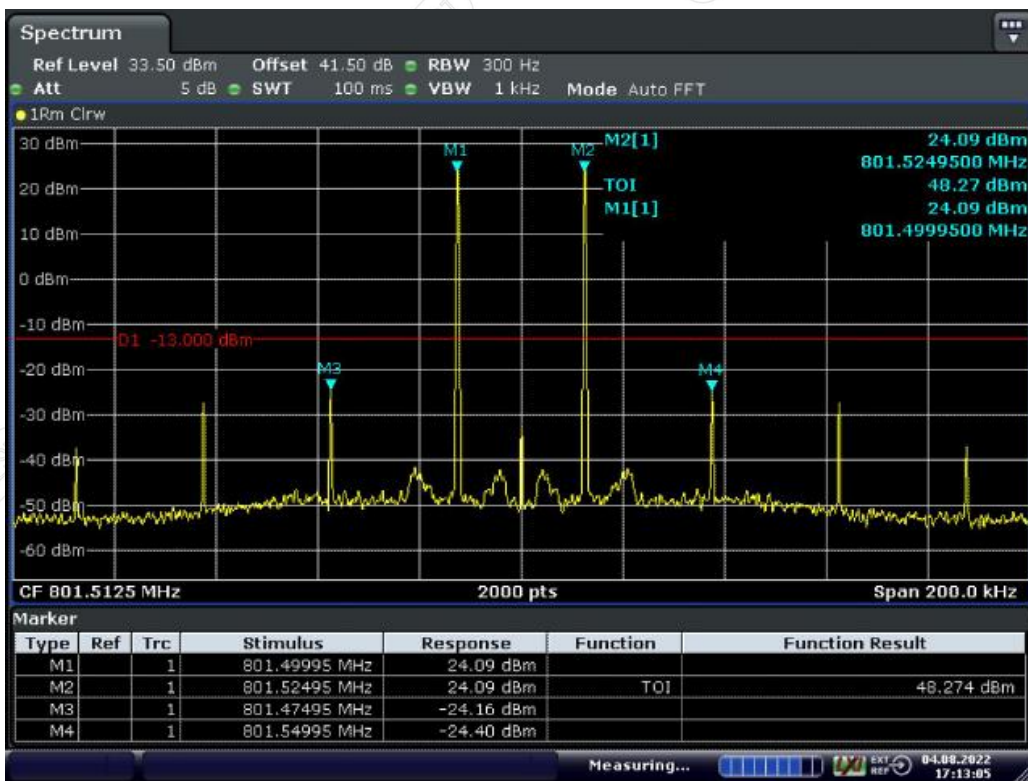
Date: 4.AUG.2022 17:11:36

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



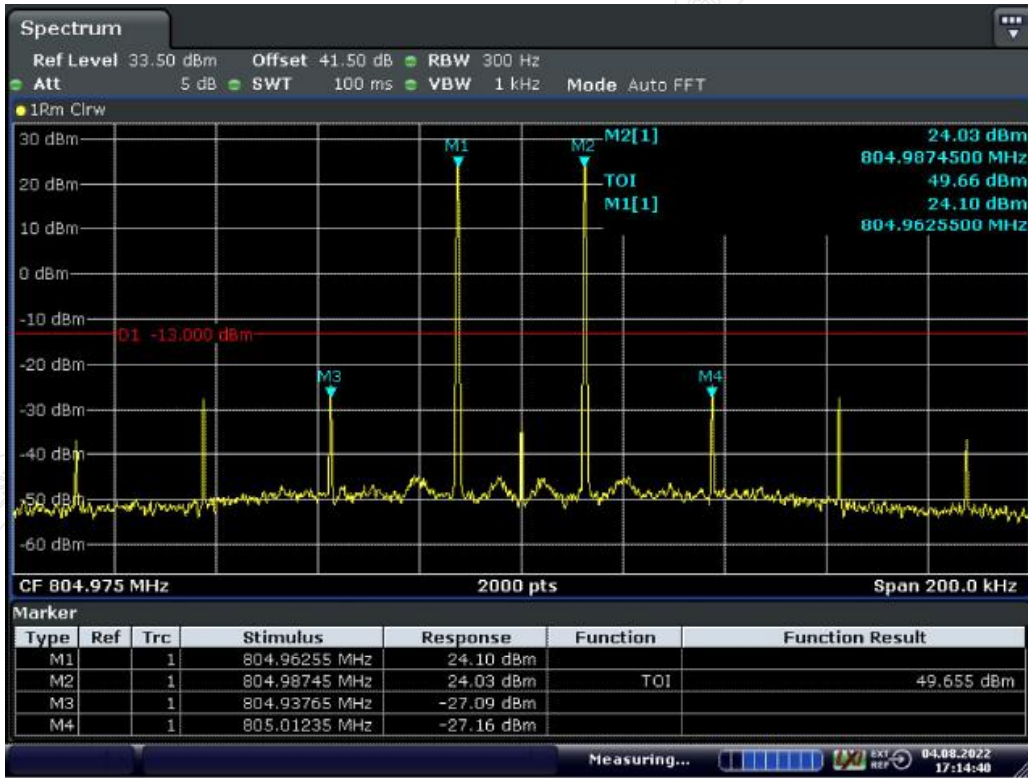
Date: 4.AUG.2022 17:12:50

Mid Frequency and with the ALC threshold level



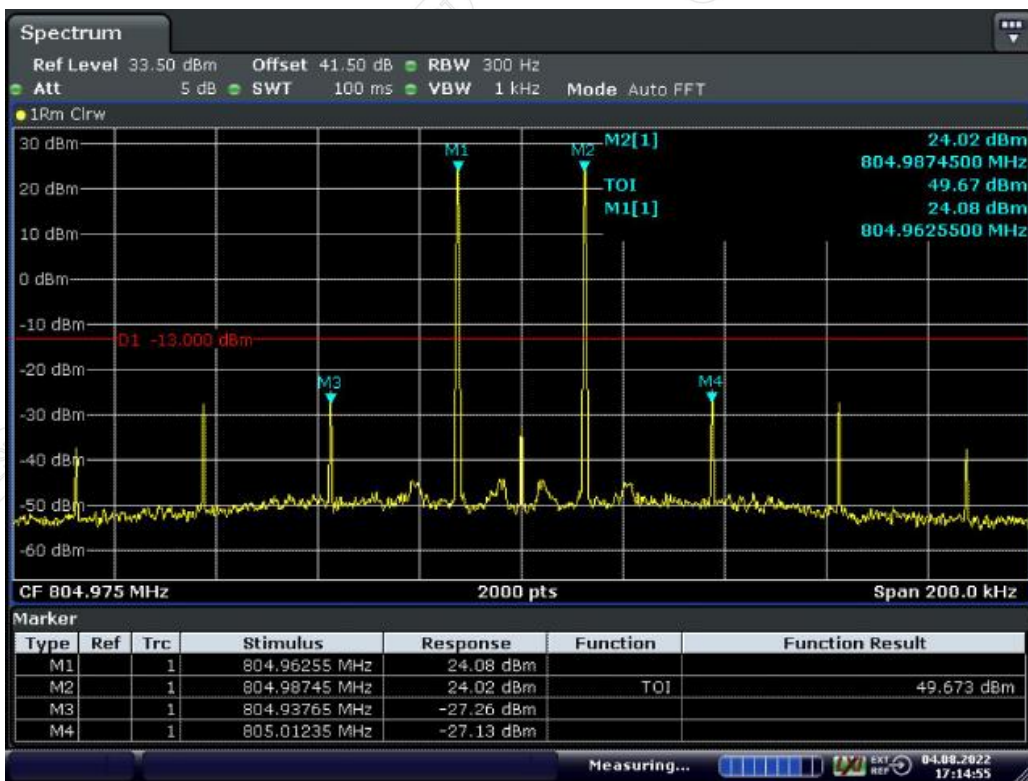
Date: 4.AUG.2022 17:13:05

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



Date: 4.AUG.2022 17:14:41

High Frequency and with the ALC threshold level



Date: 4.AUG.2022 17:14:56

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