

10.6.4.1.2. 800MHz Band

10.6.4.1.2.1. Downlink

Test link	Freq. (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	-50.2	0.9	-13.3	40.4	27.1	0.513	78.2
Down ⁽²⁾	851.00625	-47.2	0.9	-13.4	40.4	27.0	0.501	75.1
Down ⁽¹⁾	856.0	-51.0	0.9	-12.9	40.4	27.5	0.562	79.4
Down ⁽²⁾	856.0	-48.0	0.9	-13.1	40.4	27.3	0.537	76.2
Down ⁽¹⁾	860.99375	-49.6	0.9	-13.1	40.4	27.3	0.537	77.8
Down ⁽²⁾	860.99375	-46.6	0.9	-13.2	40.4	27.2	0.525	74.7
2. P25 Phase II(H-DQPSK)								
Down ⁽¹⁾	851.00625	-50.2	0.9	-13.7	40.4	26.7	0.468	77.8
Down ⁽²⁾	851.00625	-47.2	0.9	-13.8	40.4	26.6	0.457	74.7
Down ⁽¹⁾	856.0	-51.0	0.9	-13.2	40.4	27.2	0.525	79.1
Down ⁽²⁾	856.0	-48.0	0.9	-13.1	40.4	27.3	0.537	76.2
Down ⁽¹⁾	860.99375	-49.6	0.9	-13.2	40.4	27.2	0.525	77.7
Down ⁽²⁾	860.99375	-46.6	0.9	-13.2	40.4	27.2	0.525	74.7
3. Analog FM mode								
Down ⁽¹⁾	851.0125	-50.2	0.9	-13.8	40.4	26.6	0.457	77.7
Down ⁽²⁾	851.0125	-47.2	0.9	-13.7	40.4	26.7	0.468	74.8
Down ⁽¹⁾	856.0	-51.0	0.9	-13.2	40.4	27.2	0.525	79.1
Down ⁽²⁾	856.0	-48.0	0.9	-13.3	40.4	27.1	0.513	76.0
Down ⁽¹⁾	860.9875	-49.6	0.9	-13.5	40.4	26.9	0.490	77.4
Down ⁽²⁾	860.9875	-46.6	0.9	-13.5	40.4	26.9	0.490	74.4
4. Tetra								
Down ⁽¹⁾	851.0125	-50.2	0.9	-13.5	40.4	26.9	0.490	78.0
Down ⁽²⁾	851.0125	-47.2	0.9	-13.4	40.4	27.0	0.501	75.1
Down ⁽¹⁾	856.0	-51.0	0.9	-13.1	40.4	27.3	0.537	79.2
Down ⁽²⁾	856.0	-48.0	0.9	-12.6	40.4	27.8	0.603	76.7
Down ⁽¹⁾	860.9875	-49.6	0.9	-13.4	40.4	27.0	0.501	77.5
Down ⁽²⁾	860.9875	-46.6	0.9	-13.2	40.4	27.2	0.525	74.7

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

10.6.4.1.2.2. Uplink

Test link	Freq. (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	-53.4	0.9	-14.6	40.4	25.8	0.380	80.1
Up ⁽²⁾	806.00625	-50.4	0.9	-14.7	40.4	25.7	0.372	77.0
Up ⁽¹⁾	811.0	-52.1	0.9	-14.5	40.4	25.9	0.398	78.9
Up ⁽²⁾	811.0	-49.1	0.9	-14.5	40.4	25.9	0.398	75.9
Up ⁽¹⁾	815.99375	-47.2	0.9	-14.1	40.4	26.3	0.427	74.4
Up ⁽²⁾	815.99375	-44.2	0.9	-14.1	40.4	26.3	0.427	71.4
2. P25 Phase II(H-DQPSK)								
Up ⁽¹⁾	806.00625	-53.4	0.9	-14.6	40.4	25.8	0.380	80.1
Up ⁽²⁾	806.00625	-50.4	0.9	-14.7	40.4	25.7	0.372	77.0
Up ⁽¹⁾	811.0	-52.1	0.9	-14.4	40.4	26.0	0.389	79.0
Up ⁽²⁾	811.0	-49.1	0.9	-14.4	40.4	26.0	0.389	76.0
Up ⁽¹⁾	815.99375	-47.2	0.9	-14.1	40.4	26.3	0.427	74.4
Up ⁽²⁾	815.99375	-44.2	0.9	-14.2	40.4	26.2	0.417	71.3
3. Analog FM mode								
Up ⁽¹⁾	806.0125	-53.4	0.9	-14.7	40.4	25.7	0.372	80.0
Up ⁽²⁾	806.0125	-50.4	0.9	-14.7	40.4	25.7	0.372	77.0
Up ⁽¹⁾	811.0	-52.1	0.9	-14.5	40.4	25.9	0.389	78.9
Up ⁽²⁾	811.0	-49.1	0.9	-14.7	40.4	25.7	0.372	75.7
Up ⁽¹⁾	815.9875	-47.2	0.9	-14.3	40.4	26.1	0.407	74.2
Up ⁽²⁾	815.9875	-44.2	0.9	-14.2	40.4	26.2	0.417	71.3
4. Tetra								
Up ⁽¹⁾	806.0125	-53.4	0.9	-14.5	40.4	25.9	0.389	80.2
Up ⁽²⁾	806.0125	-50.4	0.9	-14.5	40.4	25.9	0.389	77.2
Up ⁽¹⁾	811.0	-52.1	0.9	-14.6	40.4	25.8	0.380	78.8
Up ⁽²⁾	811.0	-49.1	0.9	-14.5	40.4	25.9	0.389	75.9
Up ⁽¹⁾	815.9875	-47.2	0.9	-14.1	40.4	26.3	0.427	74.4
Up ⁽²⁾	815.9875	-44.2	0.9	-14.0	40.4	26.4	0.437	71.5

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

10.6.4.2. ERP Calculations

10.6.4.2.1. 700MHz Band

10.6.4.2.1.1. Downlink

Test link	Freq. (MHz)	EUT Max. output power (dBm)	Max. Ant Gain(dBi)	ERP (W)	ERP Limit (W)	AGC Mode
1. LTE 5MHz						
Down	760.5	27.4	9.0	4.4	5.0	-0.5dB Below
Down	760.5	27.3	9.0	4.3	5.0	+3.0dB above
Down	763.0	27.2	9.0	4.2	5.0	-0.5dB Below
Down	763.0	27.2	9.0	4.2	5.0	+3.0dB above
Down	765.5	27.2	9.0	4.2	5.0	-0.5dB Below
Down	765.5	27.2	9.0	4.2	5.0	+3.0dB above
2. LTE 10MHz						
Down	763.0	27.3	9.0	4.3	5.0	-0.5dB Below
Down	763.0	27.0	9.0	4.0	5.0	+3.0dB above
3. P25 Phase I(C4FM)						
Down	768.00625	27.3	9.0	4.3	5.0	-0.5dB Below
Down	768.00625	27.2	9.0	4.2	5.0	+3.0dB above
Down	771.5	27.6	9.0	4.6	5.0	-0.5dB Below
Down	771.5	27.6	9.0	4.6	5.0	+3.0dB above
Down	774.99375	26.9	9.0	3.9	5.0	-0.5dB Below
Down	774.99375	26.8	9.0	3.8	5.0	+3.0dB above
4. P25 Phase II(H-DQPSK)						
Down	768.00625	27.0	9.0	4.0	5.0	-0.5dB Below
Down	768.00625	26.9	9.0	3.9	5.0	+3.0dB above
Down	771.5	27.6	9.0	4.6	5.0	-0.5dB Below
Down	771.5	27.7	9.0	4.7	5.0	+3.0dB above
Down	774.99375	26.7	9.0	3.7	5.0	-0.5dB Below
Down	774.99375	26.7	9.0	3.7	5.0	+3.0dB above
5. Analog FM mode						
Down	768.0125	27.1	9.0	4.1	5.0	-0.5dB Below
Down	768.0125	27.0	9.0	4.0	5.0	+3.0dB above
Down	771.5	27.5	9.0	4.5	5.0	-0.5dB Below

Down	771.5	27.4	9.0	4.4	5.0	+3.0dB above
Down	774.9875	26.8	9.0	3.8	5.0	-0.5dB Below
Down	774.9875	26.8	9.0	3.8	5.0	+3.0dB above

10.6.4.2.1.2. Uplink

Test link	Freq. (MHz)	EUT Max. output power (dBm)	Max. Ant Gain(dBi)	ERP (W)	ERP Limit (W)	AGC Mode
1. LTE 5MHz						
Down	790.5	27.3	9.0	4.3	5	-0.5dB Below
Down	790.5	27.3	9.0	4.3	5	+3.0dB above
Down	793.0	27.5	9.0	4.5	5	-0.5dB Below
Down	793.0	27.4	9.0	4.4	5	+3.0dB above
Down	795.5	27.6	9.0	4.6	5	-0.5dB Below
Down	795.5	27.7	9.0	4.7	5	+3.0dB above
2. LTE 10MHz						
Down	793.0	27.0	9.0	4.0	5	-0.5dB Below
Down	793.0	26.9	9.0	3.9	5	+3.0dB above
3. P25 Phase I(C4FM)						
Down	798.00625	26.6	9.0	3.6	5	-0.5dB Below
Down	798.00625	26.6	9.0	3.6	5	+3.0dB above
Down	801.5	26.1	9.0	3.2	5	-0.5dB Below
Down	801.5	26.2	9.0	3.3	5	+3.0dB above
Down	804.99375	26.2	9.0	3.3	5	-0.5dB Below
Down	804.99375	26.2	9.0	3.3	5	+3.0dB above
4. P25 Phase II(H-DQPSK)						
Down	798.00625	26.7	9.0	3.7	5	-0.5dB Below
Down	798.00625	26.8	9.0	3.8	5	+3.0dB above
Down	801.5	26.9	9.0	3.9	5	-0.5dB Below
Down	801.5	26.7	9.0	3.7	5	+3.0dB above
Down	804.99375	26.4	9.0	3.5	5	-0.5dB Below
Down	804.99375	26.4	9.0	3.5	5	+3.0dB above
5. Analog FM mode						
Down	798.0125	26.5	9.0	3.5	5	-0.5dB Below

Down	798.0125	26.3	9.0	3.4	5	+3.0dB above
Down	801.5	26.5	9.0	3.5	5	-0.5dB Below
Down	801.5	26.6	9.0	3.6	5	+3.0dB above
Down	804.9875	26.2	9.0	3.3	5	-0.5dB Below
Down	804.9875	26.2	9.0	3.3	5	+3.0dB above

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10.6.4.2.2. 800MHz Band

10.6.4.2.2.1. Downlink

Test link	Freq. (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	27.1	9.0	4.1	5.0	-0.5dB Below
Down	851.00625	27.0	9.0	4.0	5.0	+3.0dB above
Down	856.0	27.5	9.0	4.5	5.0	-0.5dB Below
Down	856.0	27.3	9.0	4.3	5.0	+3.0dB above
Down	860.99375	27.3	9.0	4.3	5.0	-0.5dB Below
Down	860.99375	27.2	9.0	4.2	5.0	+3.0dB above
2. P25 Phase II(H-DQPSK)						
Down	851.00625	26.7	9.0	3.7	5.0	-0.5dB Below
Down	851.00625	26.6	9.0	3.6	5.0	+3.0dB above
Down	856.0	27.2	9.0	4.2	5.0	-0.5dB Below
Down	856.0	27.3	9.0	4.3	5.0	+3.0dB above
Down	860.99375	27.2	9.0	4.2	5.0	-0.5dB Below
Down	860.99375	27.2	9.0	4.2	5.0	+3.0dB above
3. Analog FM						
Down	851.0125	26.6	9.0	3.6	5.0	-0.5dB Below
Down	851.0125	26.7	9.0	3.7	5.0	+3.0dB above
Down	856.0	27.2	9.0	4.2	5.0	-0.5dB Below
Down	856.0	27.1	9.0	4.1	5.0	+3.0dB above
Down	860.9875	26.9	9.0	3.9	5.0	-0.5dB Below
Down	860.9875	26.9	9.0	3.9	5.0	+3.0dB above
4. Tetra						
Down	851.0125	26.9	9.0	3.9	5.0	-0.5dB Below
Down	851.0125	27.0	9.0	4.0	5.0	+3.0dB above
Down	856.0	27.3	9.0	4.3	5.0	-0.5dB Below
Down	856.0	27.8	9.0	4.8	5.0	+3.0dB above
Down	860.9875	27.0	9.0	4.0	5.0	-0.5dB Below
Down	860.9875	27.2	9.0	4.2	5.0	+3.0dB above

10.6.4.2.2.2. Uplink

Test link	Freq. (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	25.8	9.0	3.0	5.0	-0.5dB Below
Up	806.00625	25.7	9.0	3.0	5.0	+3.0dB above
Up	811.0	25.9	9.0	3.1	5.0	-0.5dB Below
Up	811.0	25.9	9.0	3.1	5.0	+3.0dB above
Up	815.99375	26.3	9.0	3.4	5.0	-0.5dB Below
Up	815.99375	26.3	9.0	3.4	5.0	+3.0dB above
2. P25 Phase II(H-DQPSK)						
Up	806.00625	25.8	9.0	3.0	5.0	-0.5dB Below
Up	806.00625	25.7	9.0	3.0	5.0	+3.0dB above
Up	811.0	26.0	9.0	3.2	5.0	-0.5dB Below
Up	811.0	26.0	9.0	3.2	5.0	+3.0dB above
Up	815.99375	26.3	9.0	3.4	5.0	-0.5dB Below
Up	815.99375	26.2	9.0	3.3	5.0	+3.0dB above
3. Analog FM						
Up	806.0125	25.7	9.0	3.0	5.0	-0.5dB Below
Up	806.0125	25.7	9.0	3.0	5.0	+3.0dB above
Up	811.0	25.9	9.0	3.1	5.0	-0.5dB Below
Up	811.0	25.7	9.0	3.0	5.0	+3.0dB above
Up	815.9875	26.1	9.0	3.2	5.0	-0.5dB Below
Up	815.9875	26.2	9.0	3.3	5.0	+3.0dB above
4. Tetra						
Up	806.0125	25.9	9.0	3.1	5.0	-0.5dB Below
Up	806.0125	25.9	9.0	3.1	5.0	+3.0dB above
Up	811.0	25.8	9.0	3.0	5.0	-0.5dB Below
Up	811.0	25.9	9.0	3.1	5.0	+3.0dB above
Up	815.9875	26.3	9.0	3.4	5.0	-0.5dB Below
Up	815.9875	26.4	9.0	3.5	5.0	+3.0dB above

10.7. Noise figure

Test requirement: KDB 935210 D05 clause 4.6
FCC PART 90.219 (e)(2)

Test Method: KDB 935210 D05/4.6

10.7.1. Requirements

According to FCC PART 90 § 90.219 (e) (2) requirement, the noise figure limit of a signal booster must be given in table 10.7-1 in either direction.

Table 10.7-1 Noise figure limits

frequency range(MHz)	Max. Noise figure limit(dB)
758-775/788~805	9
851-861/806-816	9

10.7.2. Test configuration

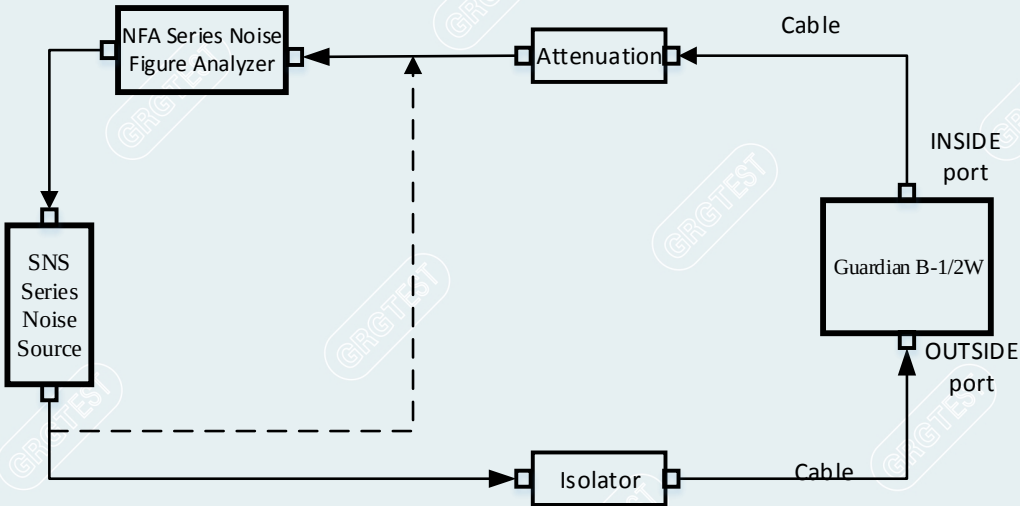


Figure 10.7-1 Downlink connection diagram

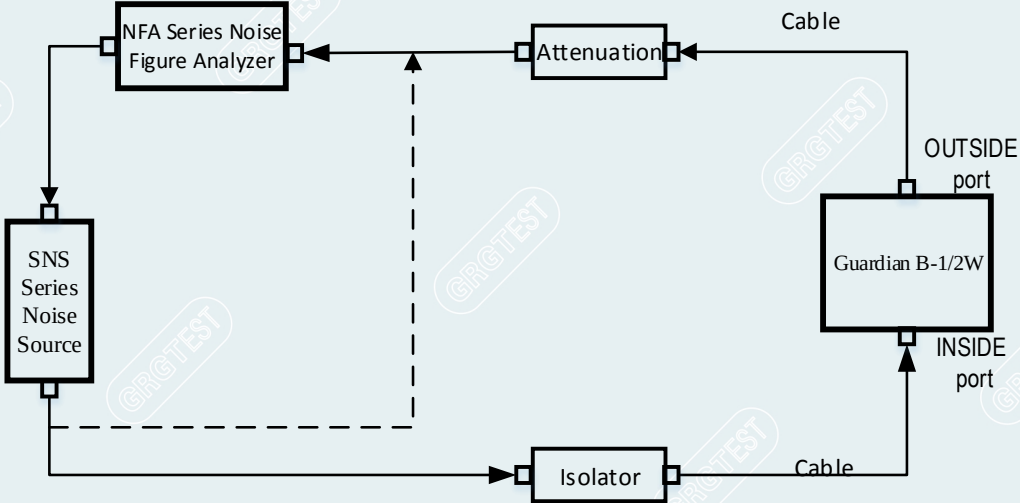


Figure 10.7-2 Uplink connection diagram

10.7.3. Test procedures

- (1) Connect the device as illustrated Figure, when the output power is over the maximum value of the Noise meter, add the attenuator to avoid destroying;
- (2) Set the EUT operating band and maximum gain;
- (3) Set the relevant parameters for 700MHz of device and connect the dotted line to calibrate;
- (4) After calibrating, according to the solid line connecting and testing Noise figure and record data;
- (5) Repeat RF channels to be tested for 800MHz of device and Repeat steps (2) to (4);

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10.7.4. Test results

Test Date (yy-mm-dd): 2022-06-28

Normal condition: Temp:25.7°C, Humid: 52%, Atmospheric Pressure:101kpa

Supply Voltage: AC 110V, 50Hz

10.7.4.1. 700MHz Band

Frequency(MHz)	Max. Limit (dB)	Noise figure data (dB)	Margin (dB)	Result
Downlink: 758~775	9	4.71	4.29	PASS
Uplink: 788~805	9	8.13	0.87	PASS
NOTE: Margin= specification limit - Noise figure data.				

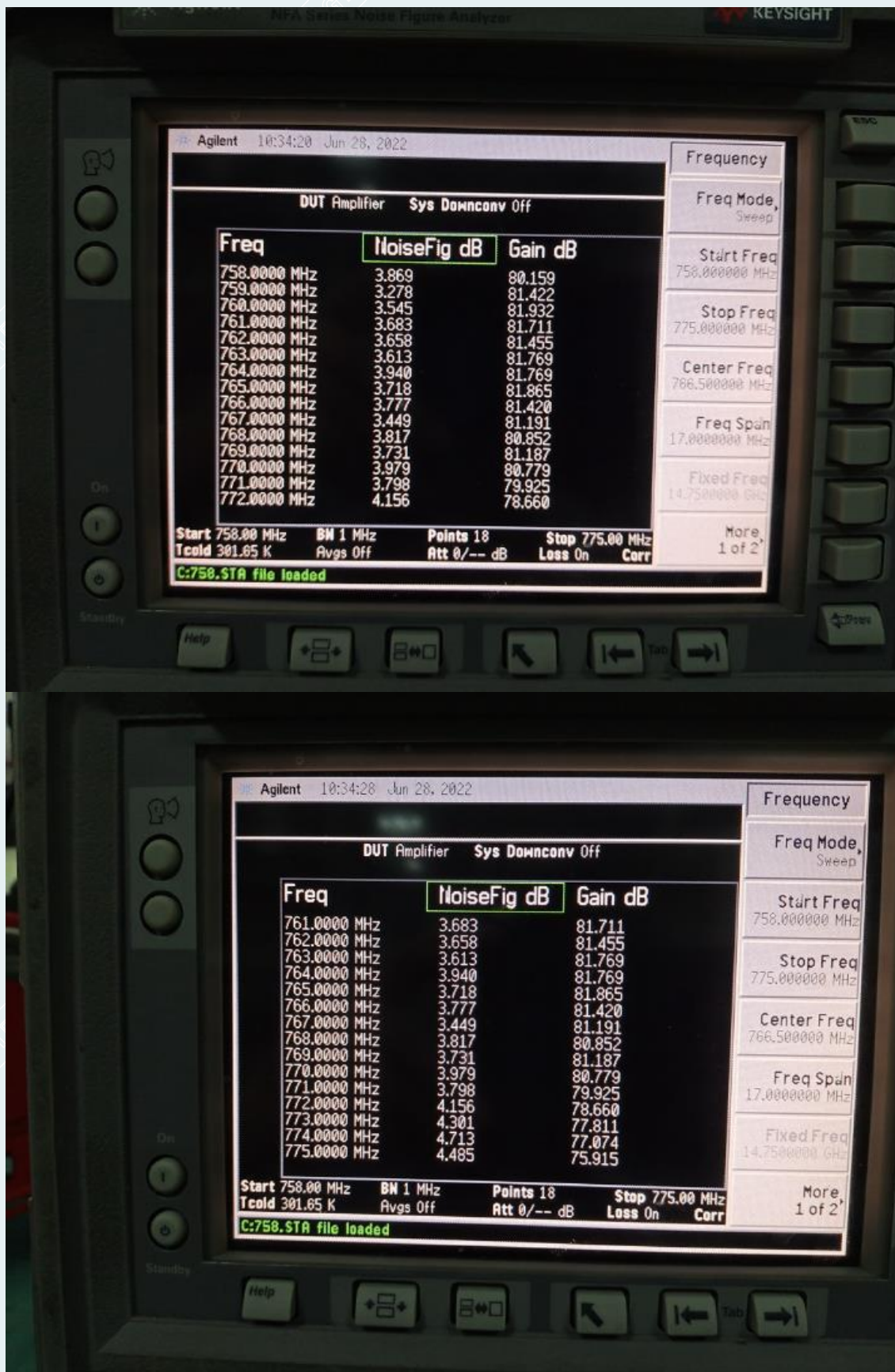
10.7.4.2. 800MHz Band

Frequency(MHz)	Max.Limit (dB)	Noise figure data (dB)	Margin (dB)	Result
Downlink: 851~861	9	4.60	4.40	PASS
Uplink: 805~816	9	7.78	1.22	PASS
NOTE: Margin= specification limit - Noise figure data.				

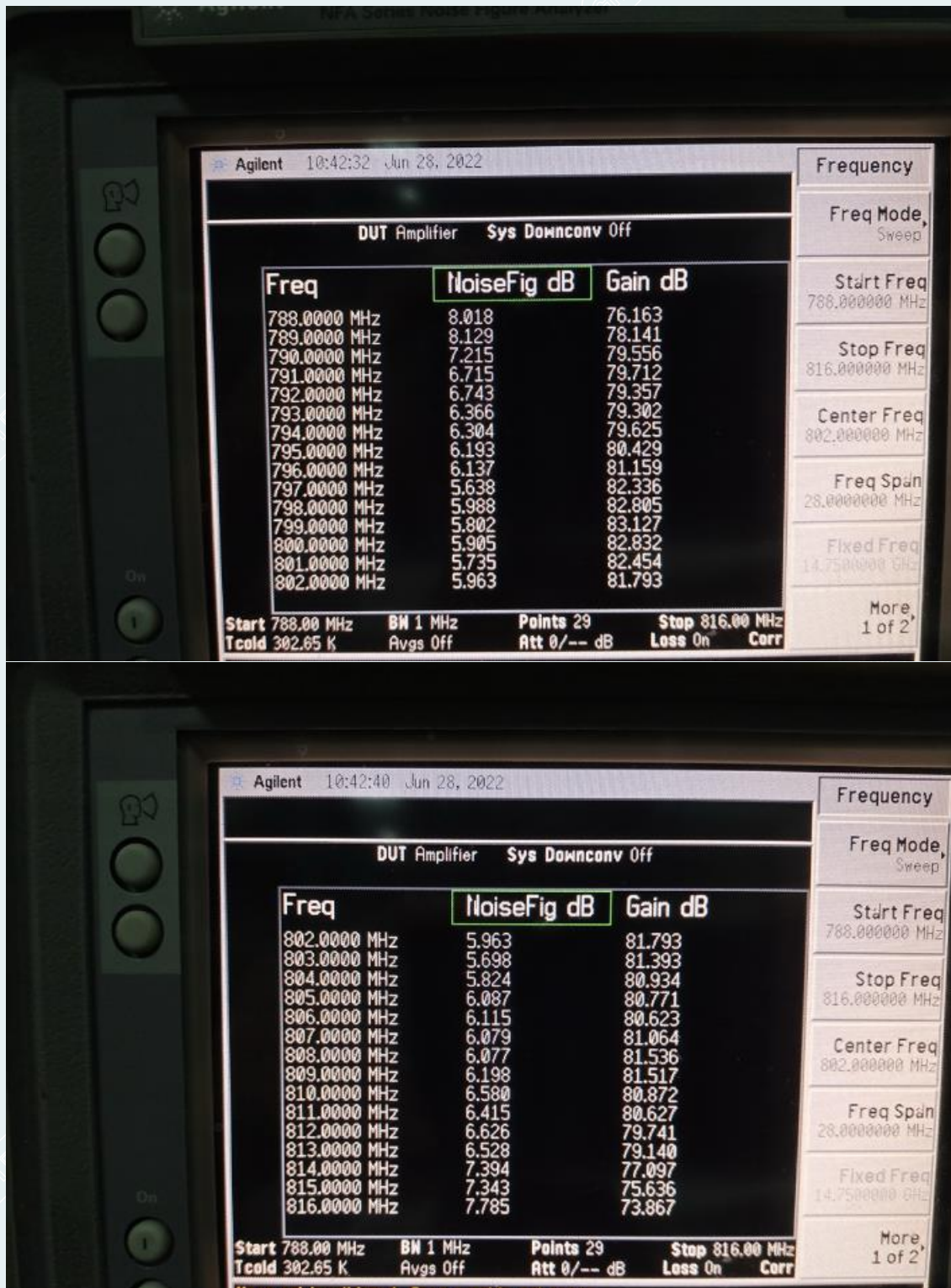
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10.7.5. Test screenshot

10.7.5.1. 700MHz Band

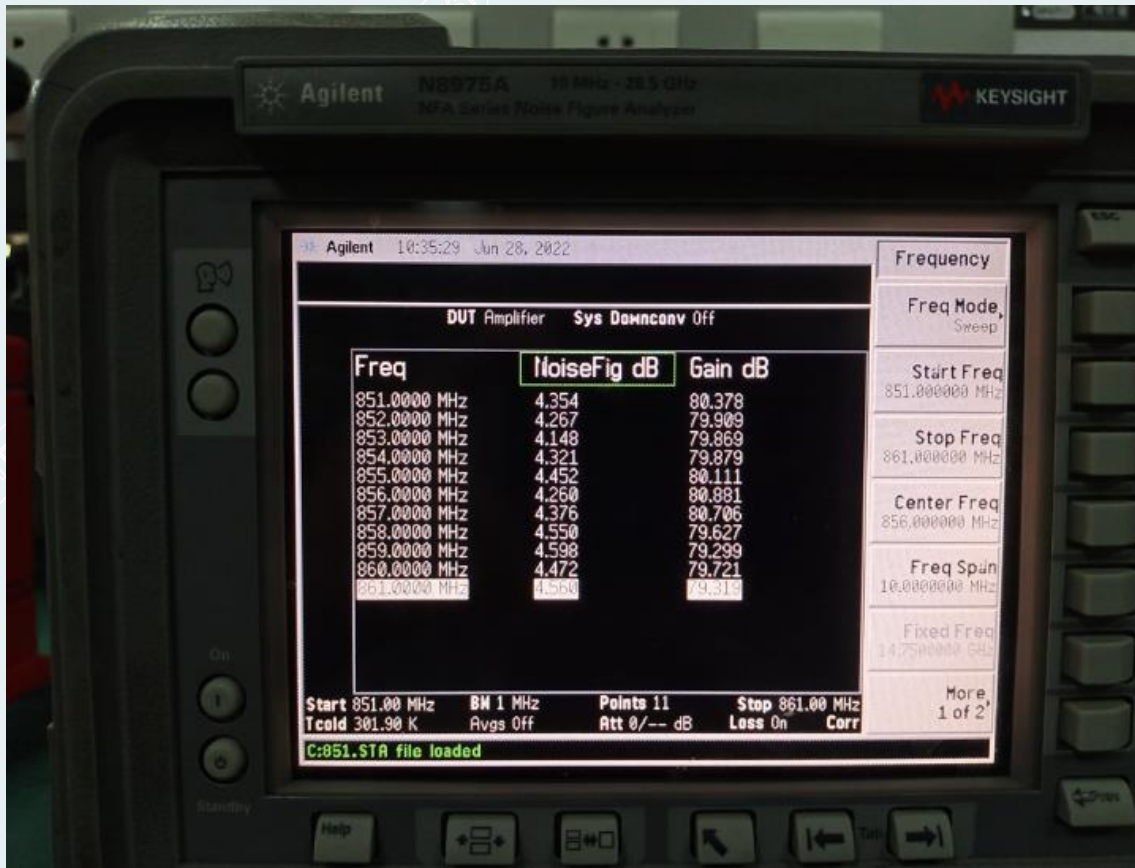


Downlink: 758MHz~775MHz

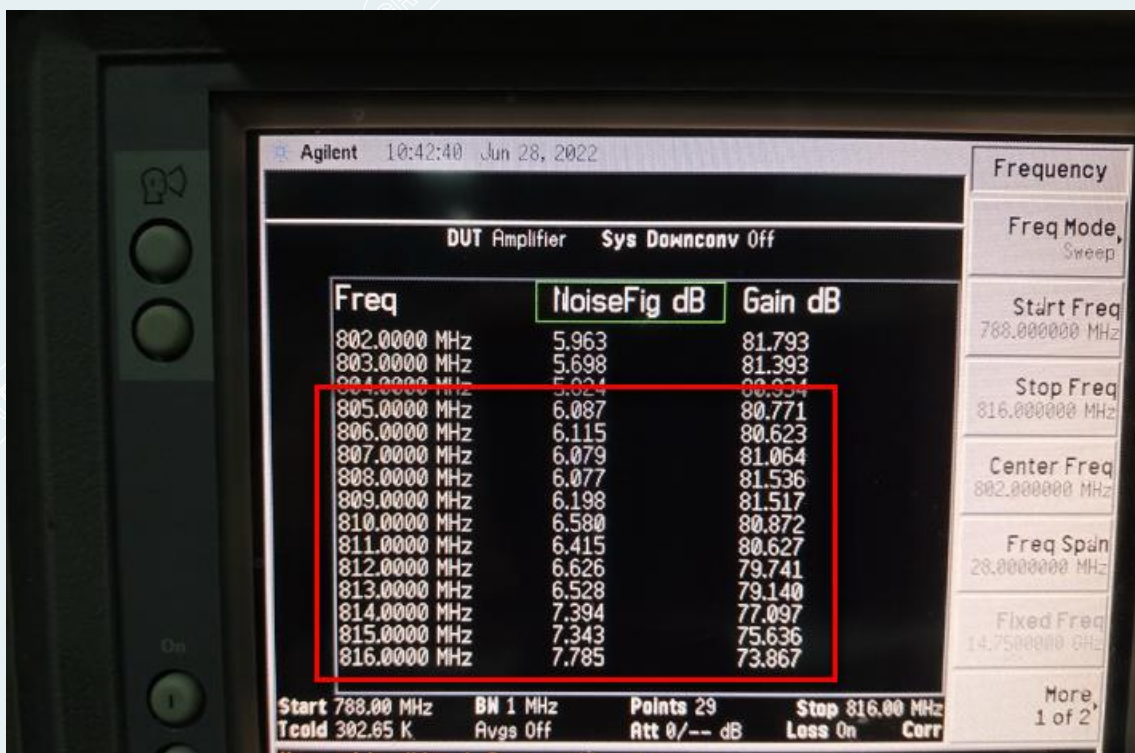


Uplink: 788MHz~805MHz

10.7.5.2. 800MHz Band



Downlink: 851MHz~861MHz



Uplink: 805MHz~816MHz

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

Test requirement: KDB 935210 D05 clause 4.7.2
FCC PART 2.1051
FCC PART 90.219 (d)(6)(i)
FCC PART 90.219 (e)(3)

Test Method: KDB 935210 D05/4.7.1 and 4.7.2

10.8.1. Requirements

The EUT shall comply with sections 4.7.2 of KDB 935210 D05.

Refer to the applicable rule part(s) for specified limits on unwanted (out-of-band/out-of-block and spurious) emissions (e.g., Section 90.210).

Spurious emissions shall be measured using a single test signal sequentially tuned to the low, middle, and high channels or frequencies within each authorized frequency band of operation.

Intermodulation products shall be measured using two CW signals with all available channel spacings (e.g., 12.5 kHz and 6.25 kHz) with the center between these channels being equal to the center frequency f_0 as determined from 4.3.

NOTE—Intermodulation-product spurious emission measurements are not required for single-channel boosters that cannot accommodate two simultaneous signals within the passband.

For a multi-channel enhancer, any intermodulation product level must be attenuated, relative to P, by at least: $43 + 10 \cdot \log_{10} P$ is less stringent than 70dB, that limit was used.

Spurious emissions shall be measured using a single test signal sequentially tuned to the low, middle, and high channels or frequencies within each authorized frequency band of operation.

Out-of-band/out-of-block emissions (including intermodulation products) shall be measured under each of the following two stimulus conditions:

- two adjacent test signals sequentially tuned to the lower and upper frequency band/block edges;
- a single test signal, sequentially tuned to the lowest and highest frequencies or channels within the frequency band/block under examination.

NOTE—Single-channel boosters that cannot accommodate two simultaneous signals within the passband may be excluded from the test stipulated in step a).

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10.8.2. Test configuration

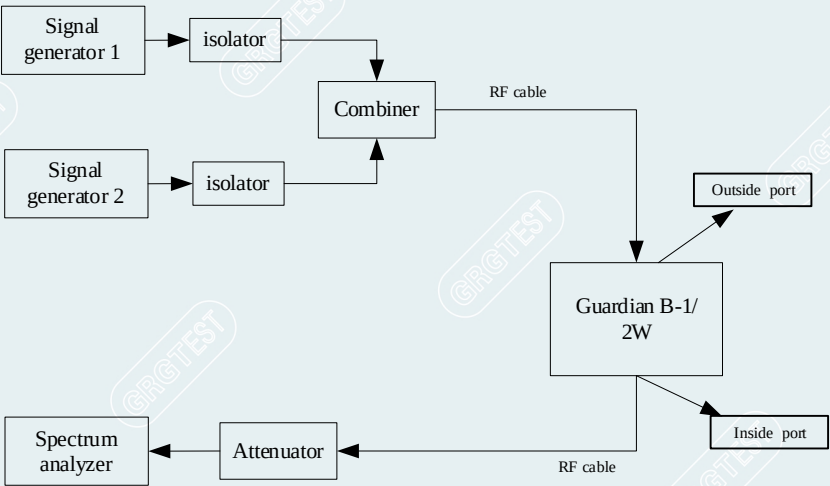


Figure 10.8-1 Downlink connection diagram

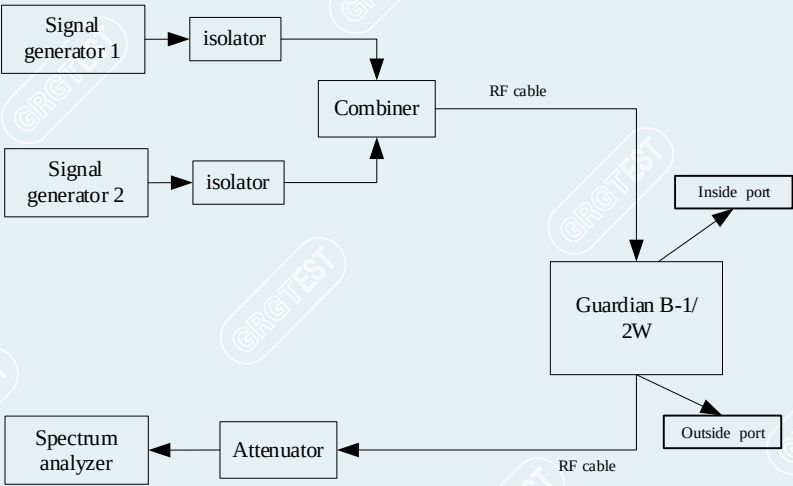


Figure 10.8-2 Uplink connection diagram

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10.8.3. Test procedures

- a) Connect a signal generator to the input of the EUT.
If the signal generator is not capable of producing two independent modulated carriers simultaneously, then two discrete signal generators can be connected, with an appropriate combining network to support the two-signal test.
- b) Configure the two signal generators to produce CW on frequencies spaced consistent with 4.7.1, with amplitude levels set to just below the AGC threshold (see 4.2). Set the signal generator amplitudes so that the power from each into the EUT is equivalent.
- c) Connect a spectrum analyzer to the EUT output.
- d) Set the span to 100 kHz.
- e) Set RBW = 300 Hz with VBW $\geq 3 \times$ RBW.
- f) Set the detector to power averaging (rms).
- g) Place a marker on highest intermodulation product amplitude.
- h) Capture the plot for inclusion in the test report.
- i) Repeat steps c) to h) with the composite input power level set to 3 dB above the AGC threshold.
- j) Repeat steps b) to i) for all operational bands.

Any frequency outside the authorized bandwidth was attenuated by at least $43+10*\log(P)$ dB. This corresponds to an absolute level of -13dBm ($P_{(dBm)}-(43+10*\log(P_{(w)}))$).

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10.8.4. Test results

Test Date (yy-mm-dd): 2022-06-21~06-22

Normal condition: Temp:24.1~25.8℃, Humid: 48~50%, Atmospheric Pressure:101kpa

Supply Voltage: AC 110V, 50Hz

10.8.4.1. 700MHz Band

10.8.4.1.1. Downlink Transmit

Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(1) Frequency range: 758MHz~775MHz					
(1.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:768.00625MHz f2:768.01875MHz	-13	-25.1	12.1	PASS
	Mid frequency: f1:771.50MHz f2:771.5125MHz	-13	-18.7	5.7	PASS
	High frequency: f1:774.98125MHz f2:774.99375MHz	-13	-18.9	5.9	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:768.00625MHz f2:768.01875MHz	-13	-25.2	12.2	PASS
	Mid frequency: f1:771.50MHz f2:771.5125MHz	-13	-18.8	5.8	PASS
	High frequency: f1:774.98125MHz f2:774.99375MHz	-13	-19.0	6.0	PASS
(1.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:768.0125MHz f2:768.0375MHz	-13	-20.5	7.5	PASS
	Mid frequency: f1:771.50MHz f2:771.525MHz	-13	-21.1	8.1	PASS
	High frequency: f1:774.9625MHz f2:774.9875MHz	-13	-21.1	8.1	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:768.0125MHz f2:768.0375MHz	-13	-20.3	7.3	PASS
	Mid frequency: f1:771.50MHz f2:771.525MHz	-13	-21.7	8.7	PASS
	High frequency: f1:774.9625MHz f2:774.9875MHz	-13	-21.2	8.2	PASS
NOTE 1: Intermodulation products select the worst data record.					
NOTE 2: Margin= specification limit -Maximum mark level.					

10.8.4.1.2. Uplink Transmit

Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(2) Frequency range: 788MHz~805MHz					
(2.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:798.00625MHz f2:798.01875MHz	-13	-18.5	5.5	PASS
	Mid frequency: f1:801.5MHz f2:801.5125MHz	-13	-19.5	6.5	PASS
	High frequency: f1:804.98125MHz f2:804.99375MHz	-13	-21.0	8.0	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:798.00625MHz f2:798.01875MHz	-13	-19.2	6.2	PASS
	Mid frequency: f1:801.5MHz f2:801.5125MHz	-13	-19.3	6.3	PASS
	High frequency: f1:804.98125MHz f2:804.99375MHz	-13	-20.5	7.5	PASS
(2.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:798.0125MHz f2:798.0375MHz	-13	-20.7	7.7	PASS
	Mid frequency: f1:801.5MHz f2:801.525MHz	-13	-21.8	8.8	PASS
	High frequency: f1:804.9625MHz f2:804.9875MHz	-13	-22.6	9.6	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:798.0125MHz f2:798.0375MHz	-13	-21.0	8.0	PASS
	Mid frequency: f1:801.5MHz f2:801.525MHz	-13	-21.6	8.6	PASS
	High frequency: f1:804.9625MHz f2:804.9875MHz	-13	-22.4	9.4	PASS
NOTE 1: Intermodulation products select the worst data record.					
NOTE 2: Margin= specification limit -Maximum mark level.					

10.8.4.2. 800MHz Band

10.8.4.2.1. 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	-23.5	10.5	PASS
	High frequency: f1:860.98125MHz f2:860.99375MHz	-13	-22.5	9.5	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:851.00625MHz f2:851.01875MHz	-13	-23.2	10.2	PASS
	Mid frequency: f1:856.0MHz f2:856.0125MHz	-13	-23.6	10.6	PASS
	High frequency: f1:860.98125MHz f2:860.99375MHz	-13	-22.5	9.5	PASS
(3.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:851.0125MHz f2:851.0375MHz	-13	-22.3	9.3	PASS
	Mid frequency: f1:856.0MHz f2:856.025MHz	-13	-29.6	16.6	PASS
	High frequency: f1:860.9625MHz f2:860.9875MHz	-13	-29.0	16.0	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:851.0125MHz f2:851.0375MHz	-13	-22.2	9.2	PASS
	Mid frequency: f1:856.0MHz f2:856.025MHz	-13	-29.6	16.6	PASS
	High frequency: f1:860.9625MHz f2:860.9875MHz	-13	-29.6	16.6	PASS
NOTE 1: Intermodulation products select the worst data record.					
NOTE 2: Margin= specification limit -Maximum mark level.					

10.8.4.2.2. Uplink Transmit

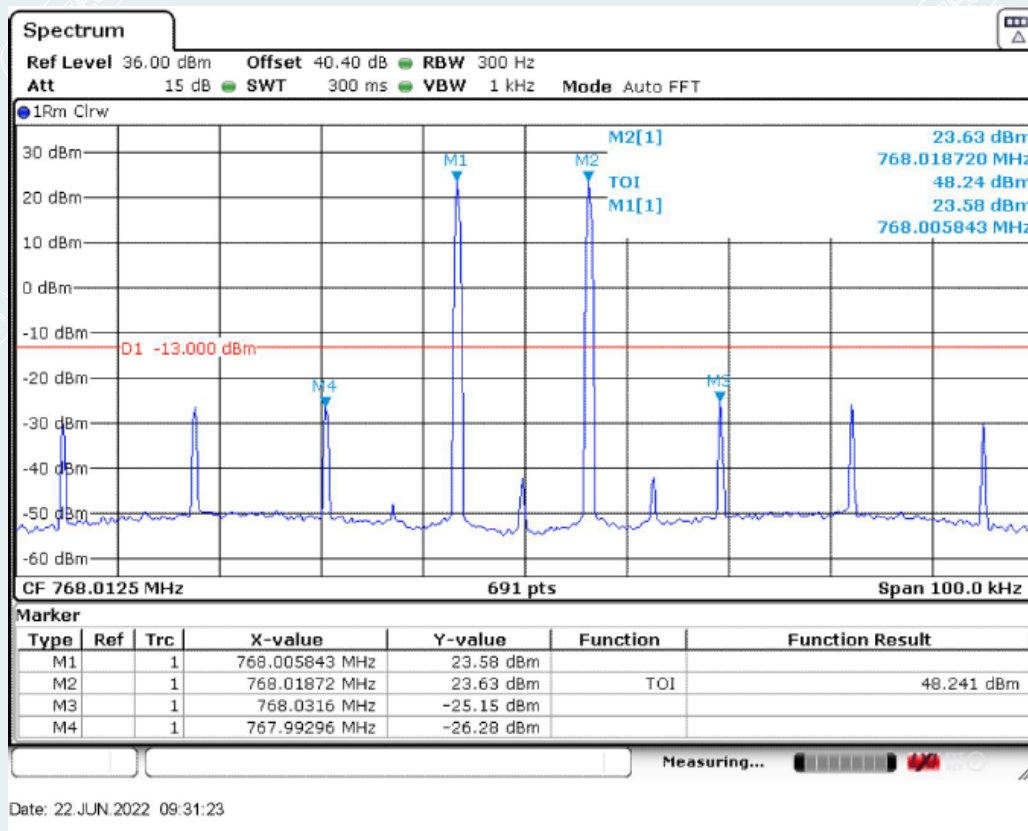
Test status	Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(4) Frequency range: 806MHz~816MHz					
(4.1) Channel Bandwidth: 12.5kHz					
With the ALC threshold level	Low frequency: f1:806.00625MHz f2:806.01875MHz	-13	-21.0	8.0	PASS
	Mid frequency: f1:811.0MHz f2:811.0125MHz	-13	-20.1	7.1	PASS
	High frequency: f1:815.98125MHz f2:815.99375MHz	-13	-23.6	10.6	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:806.00625MHz f2:806.01875MHz	-13	-20.0	7.0	PASS
	Mid frequency: f1:811.0MHz f2:811.0125MHz	-13	-20.1	7.1	PASS
	High frequency: f1:815.98125MHz f2:815.99375MHz	-13	-23.0	10.0	PASS
(4.2) Channel Bandwidth: 25kHz					
With the ALC threshold level	Low frequency: f1:806.0125MHz f2:806.0375MHz	-13	-22.2	9.2	PASS
	Mid frequency: f1:811.0MHz f2:811.025MHz	-13	-21.8	8.8	PASS
	High frequency: f1:815.9625MHz f2:815.9875MHz	-13	-25.2	12.2	PASS
With the input signal amplitude set 3 dB above the AGC threshold	Low frequency: f1:806.0125MHz f2:806.0375MHz	-13	-22.0	9.0	PASS
	Mid frequency: f1:811.0MHz f2:811.025MHz	-13	-21.7	8.7	PASS
	High frequency: f1:815.9625MHz f2:815.9875MHz	-13	-24.9	11.9	PASS
NOTE 1: Intermodulation products select the worst data record.					
NOTE 2: Margin= specification limit -Maximum mark level.					

10.8.5. Test screenshot

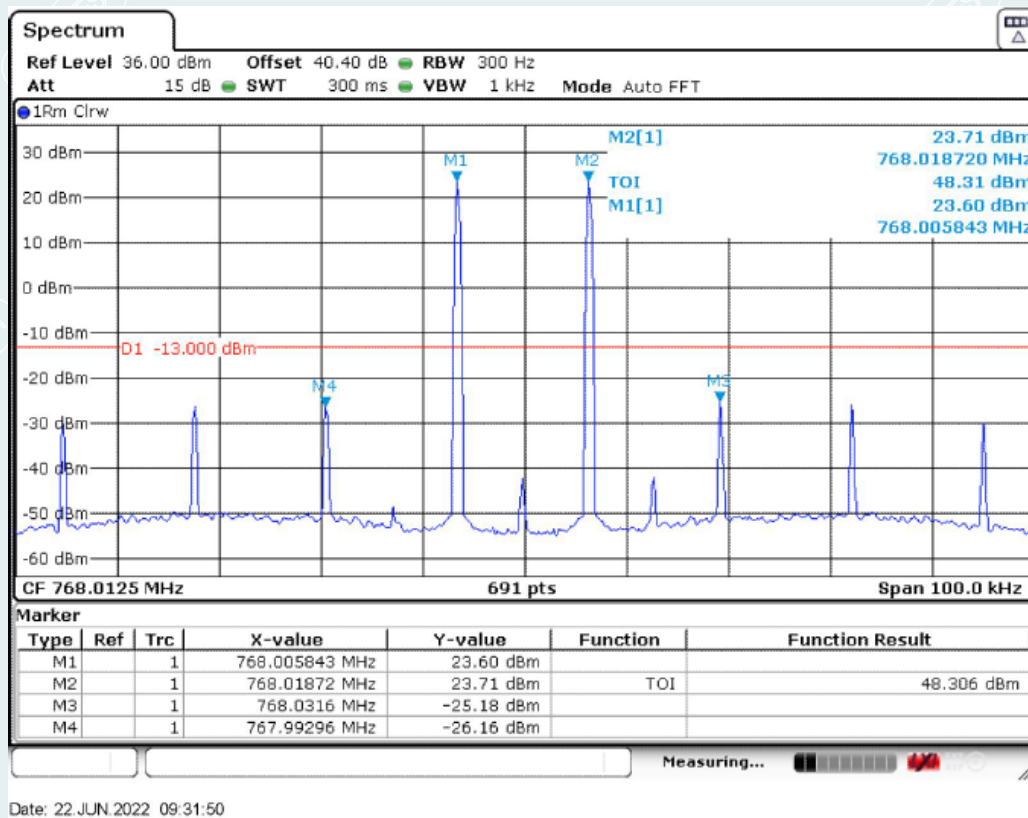
10.8.5.1. 700MHz Band

10.8.5.1.1. Channel bandwidth 12.5kHz

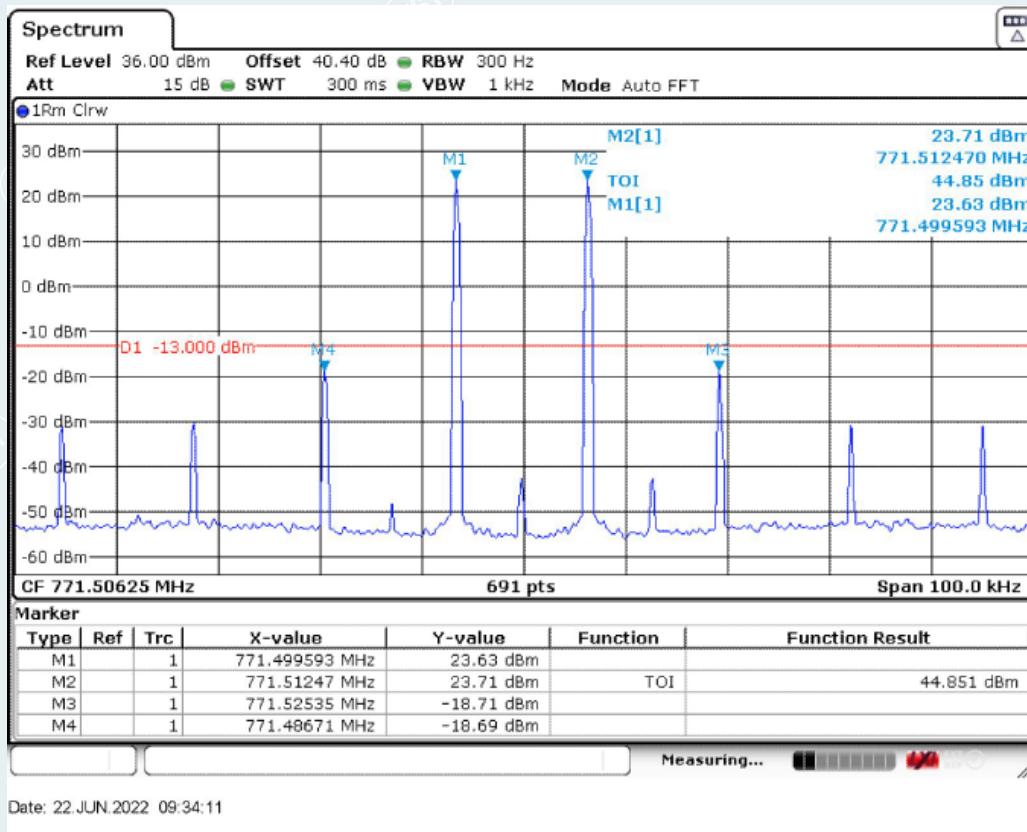
10.8.5.1.1.1. Downlink



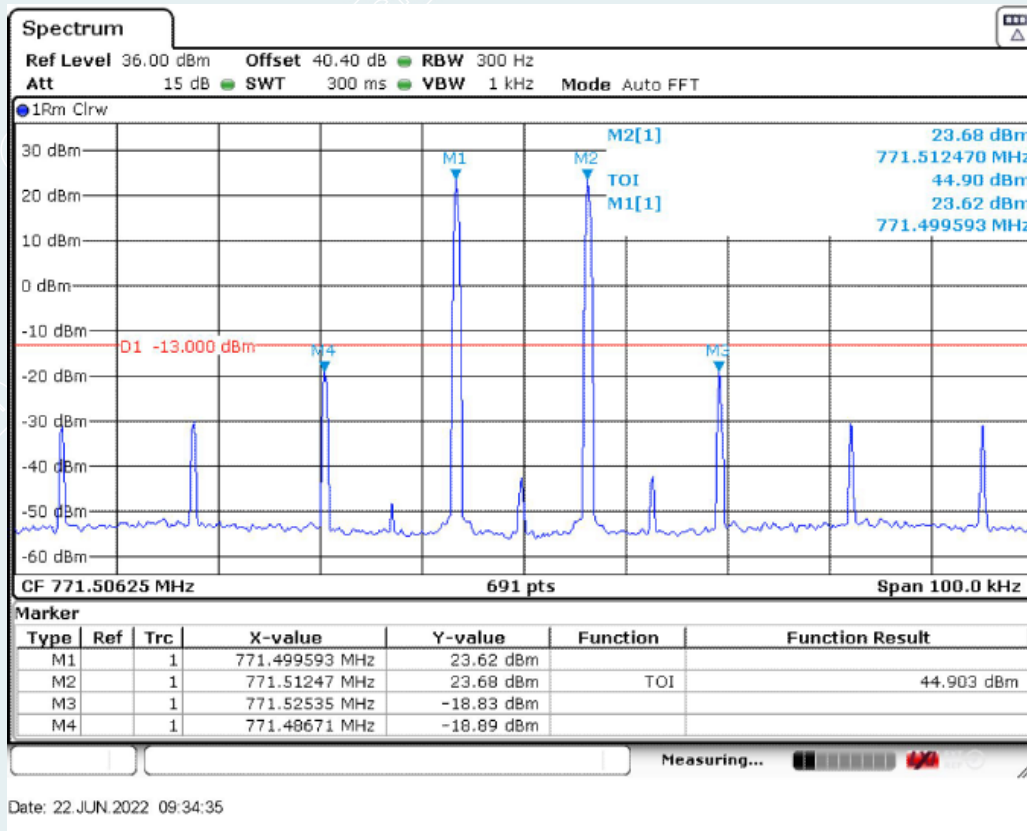
Low Frequency and with the ALC threshold level



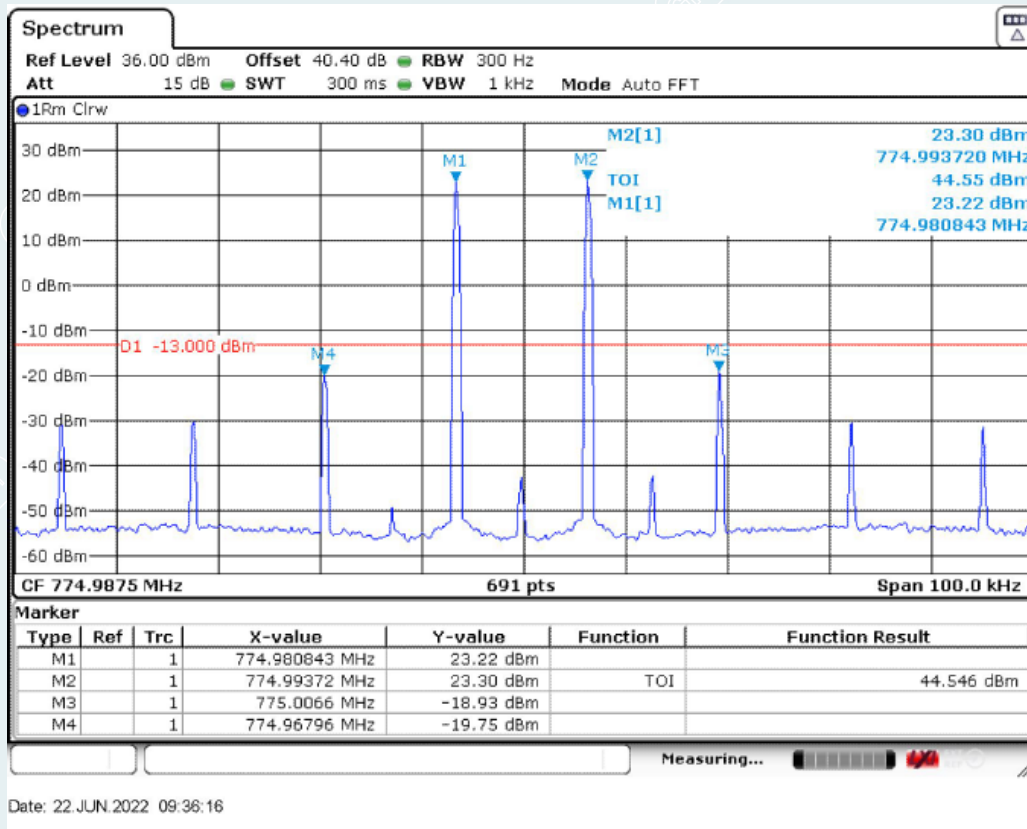
Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



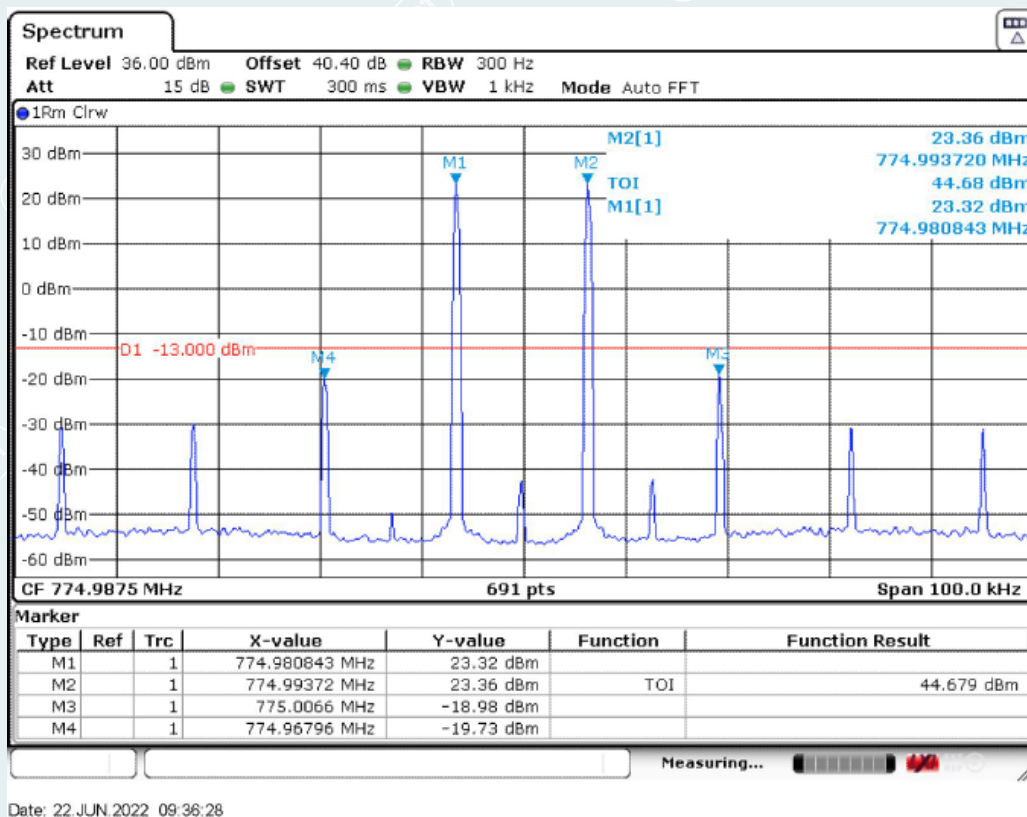
Mid Frequency and with the ALC threshold level



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

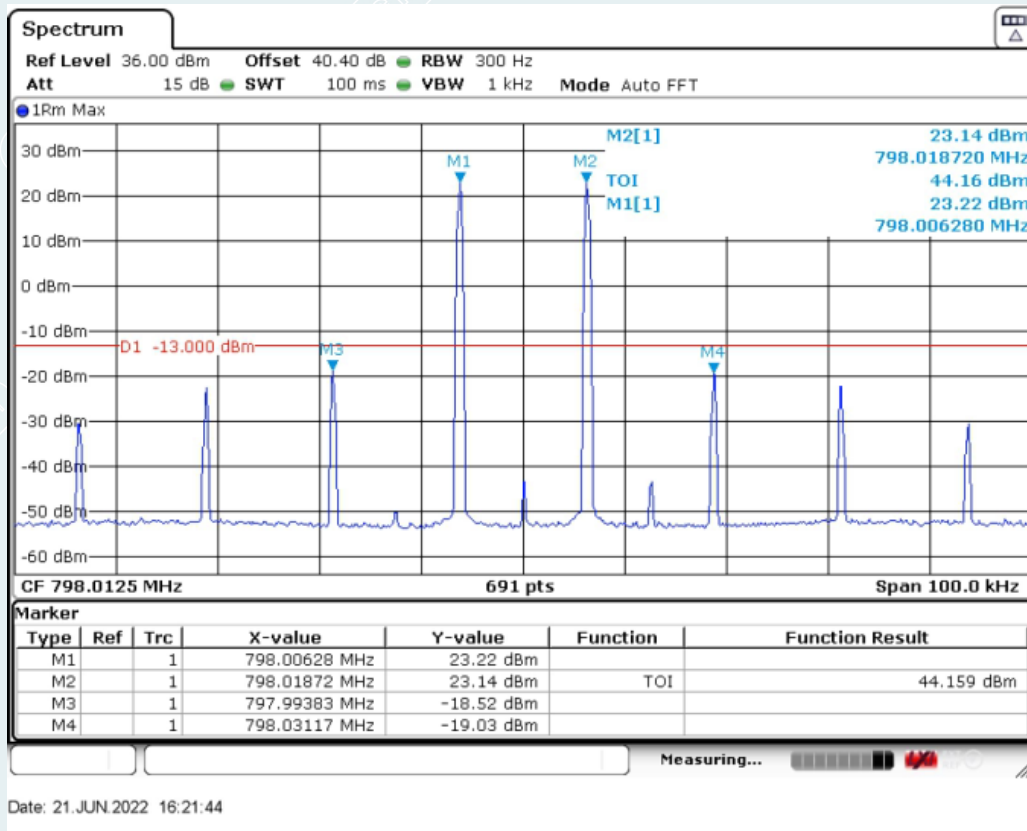


High Frequency and with the ALC threshold level

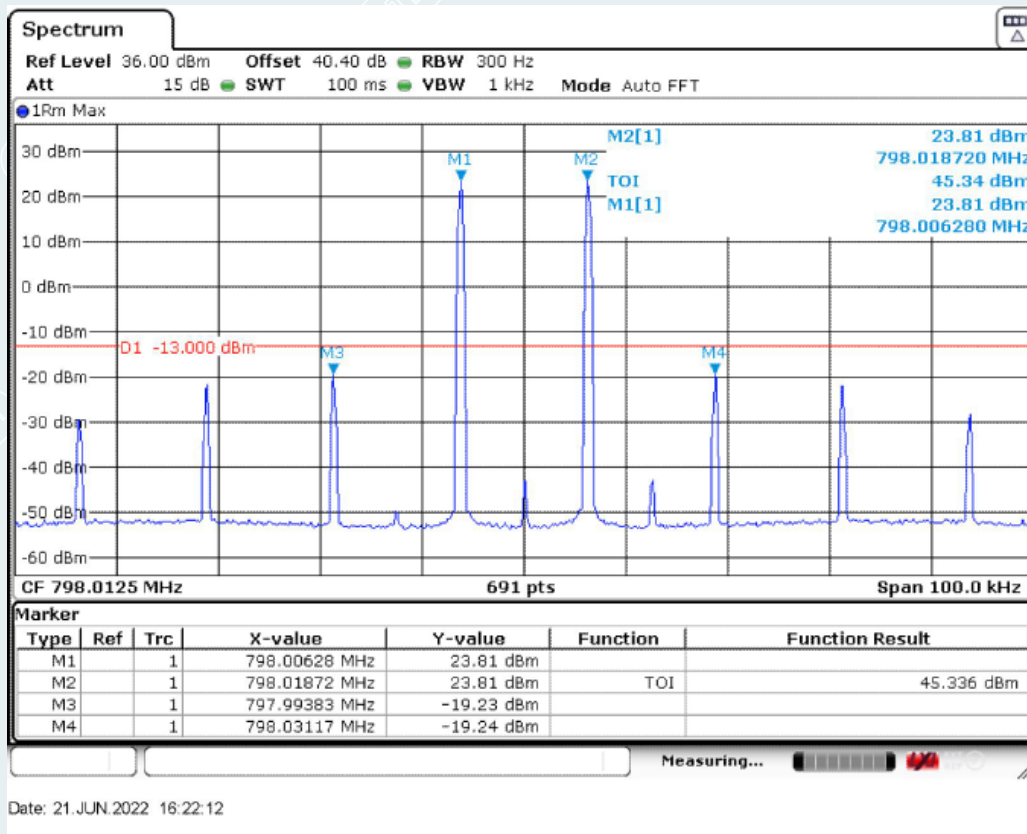


High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

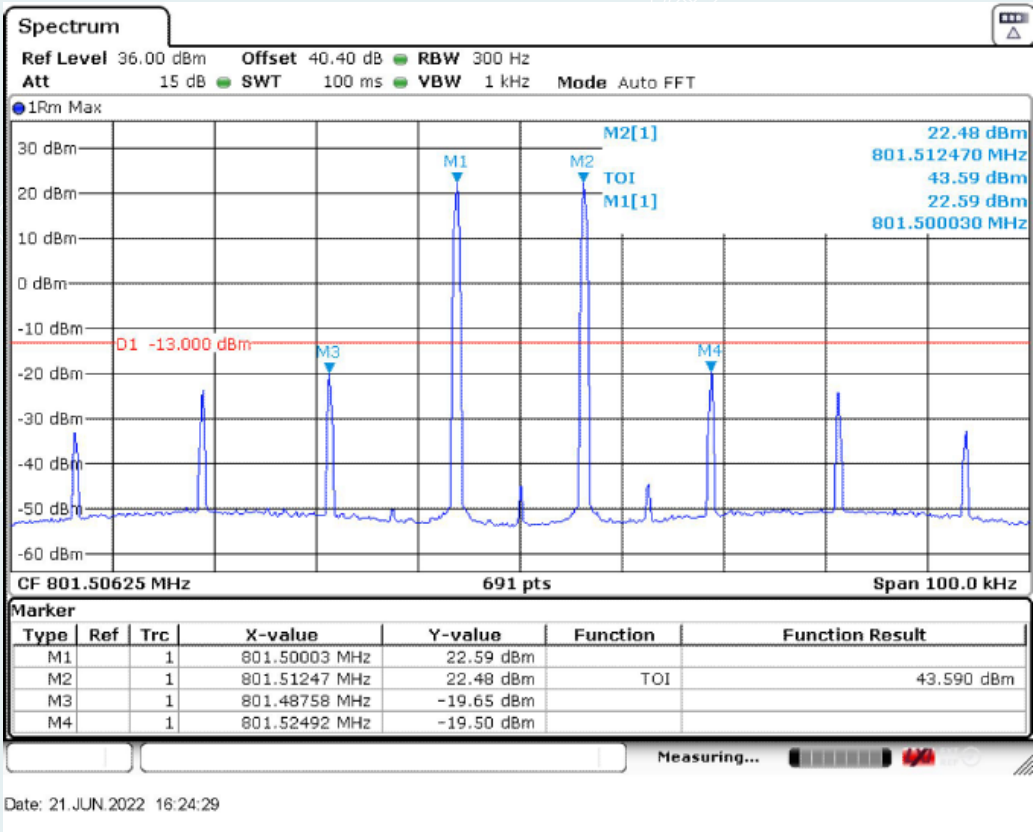
10.8.5.1.1.2. Uplink



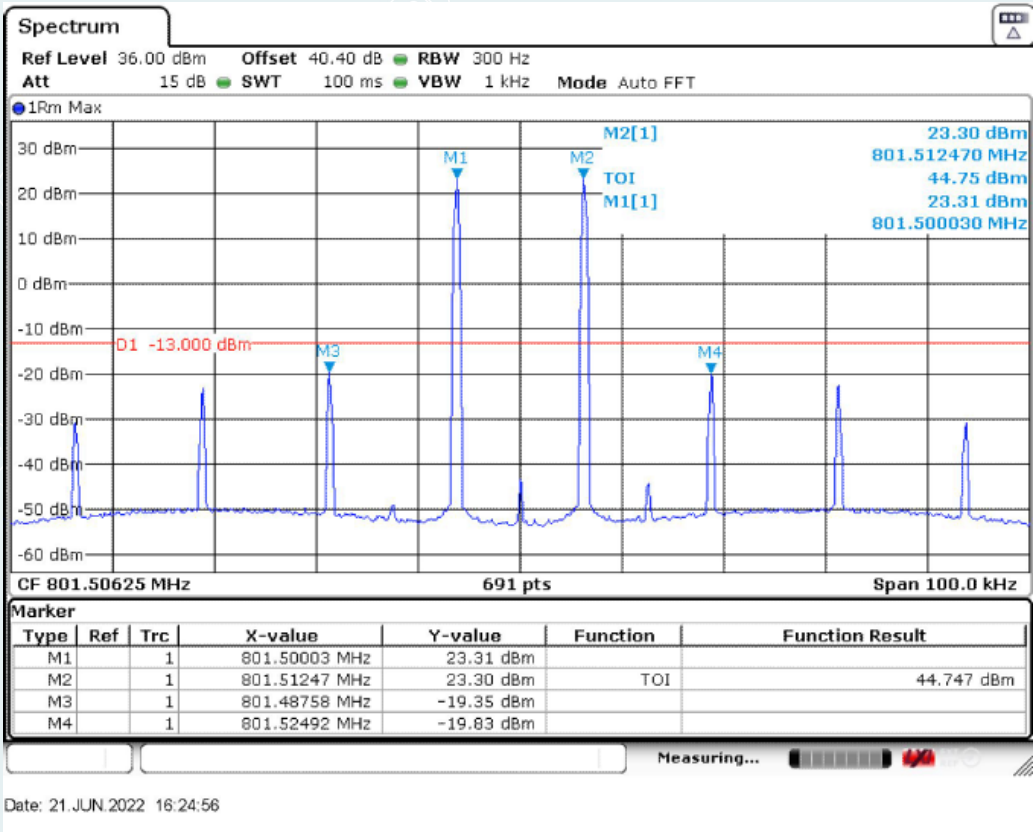
Low Frequency and with the ALC threshold level



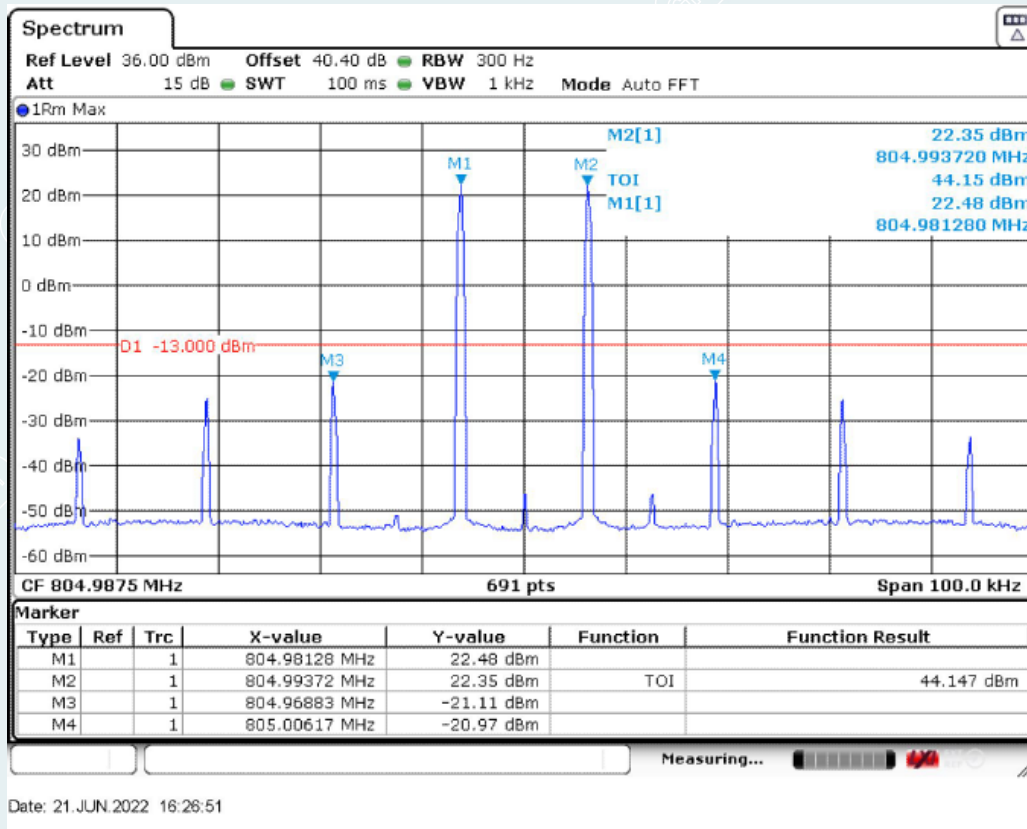
Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



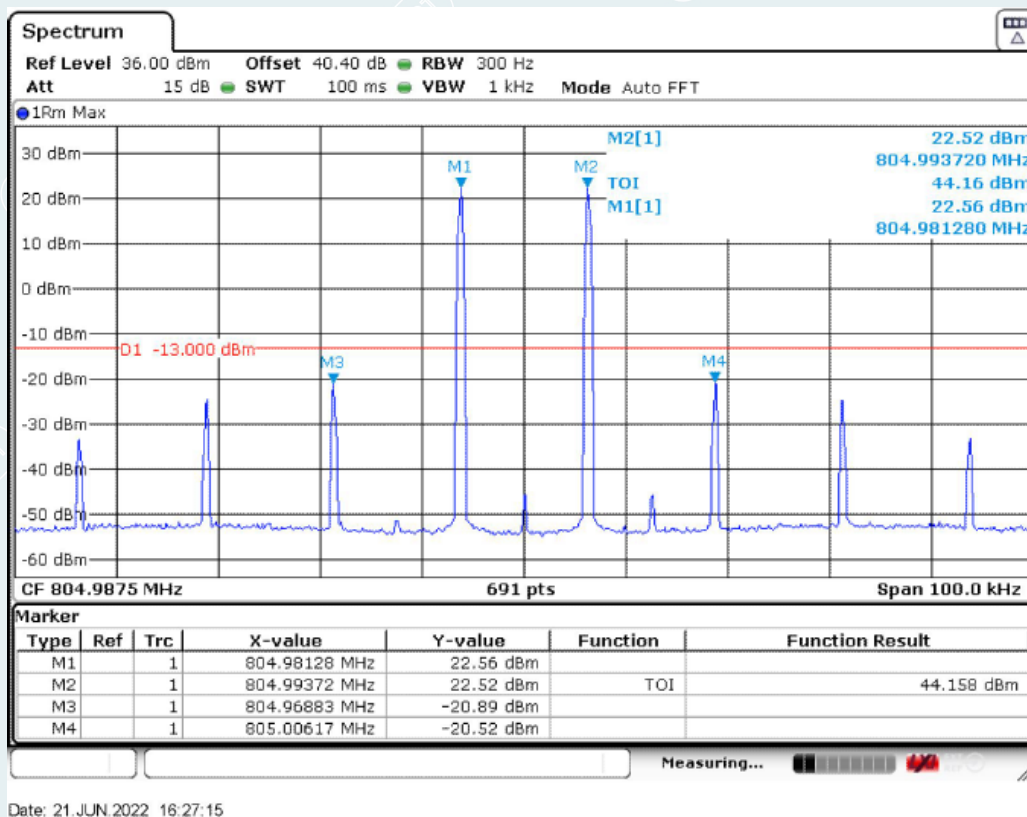
Mid Frequency and with the ALC threshold level



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



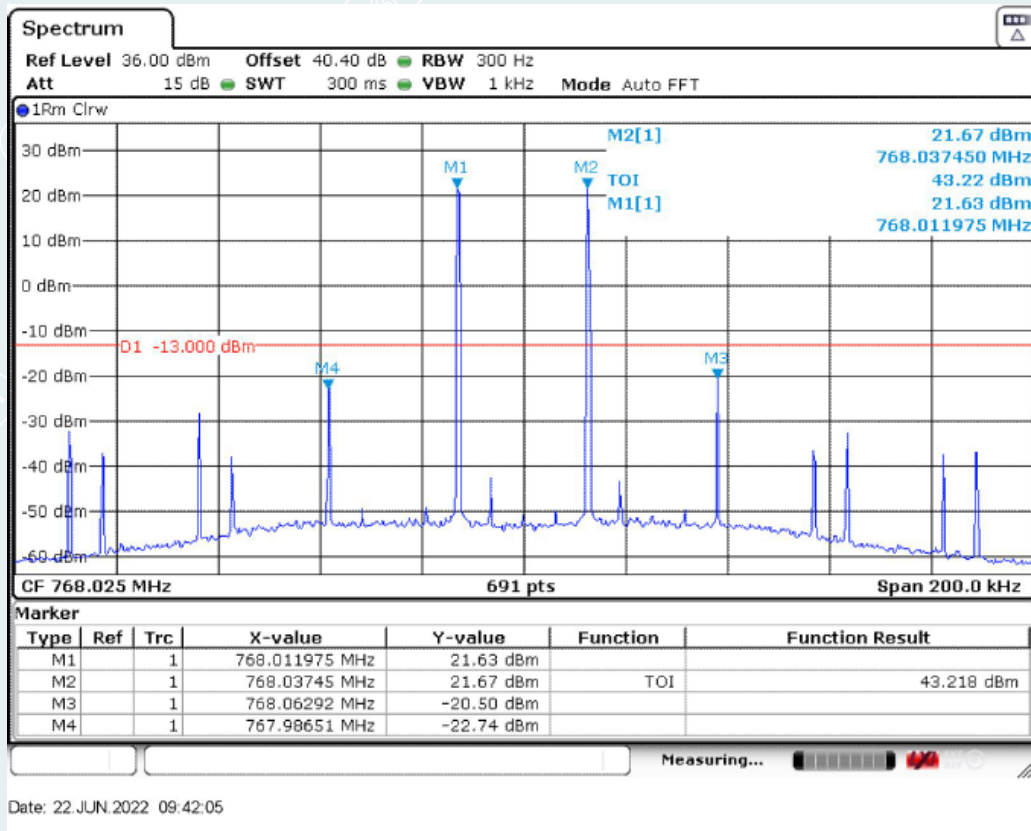
High Frequency and with the ALC threshold level



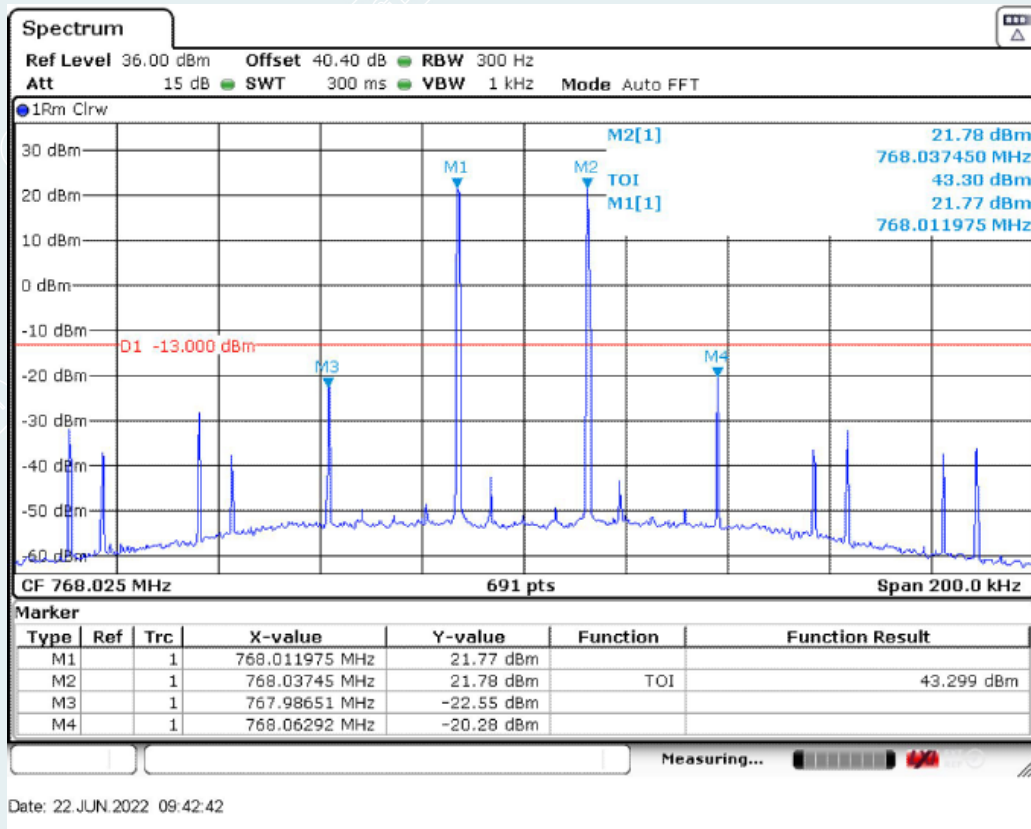
High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

10.8.5.1.2. Channel bandwidth 25kHz

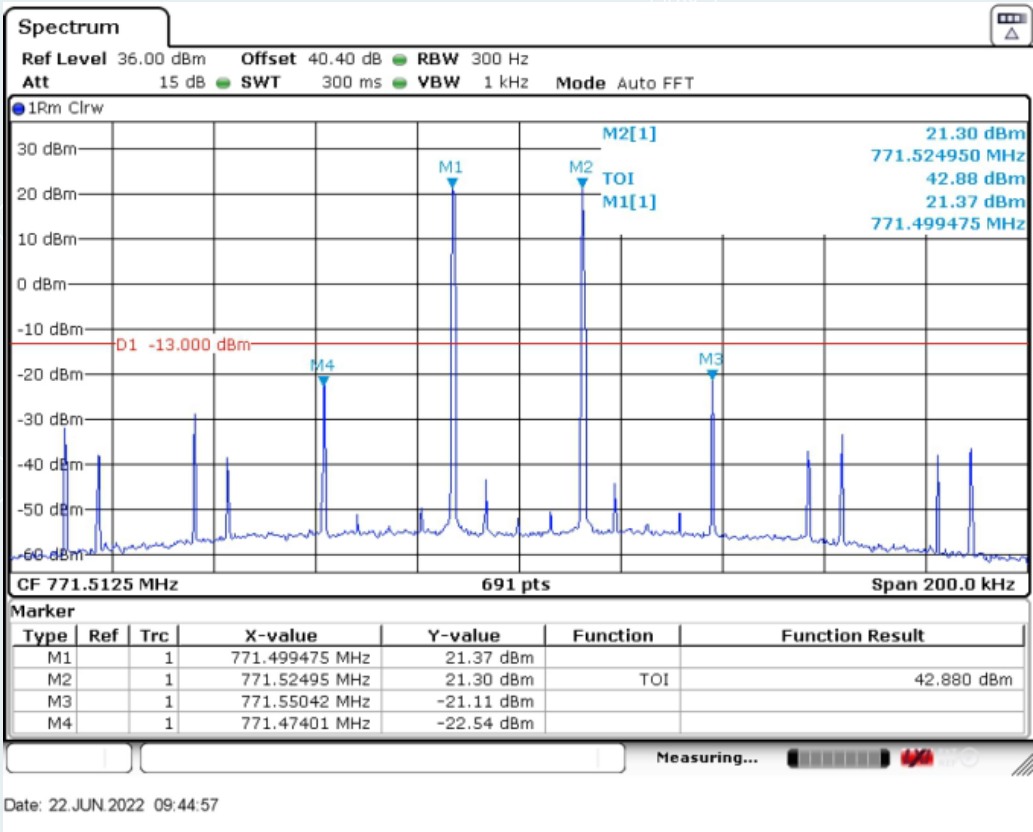
10.8.5.1.2.1. Downlink



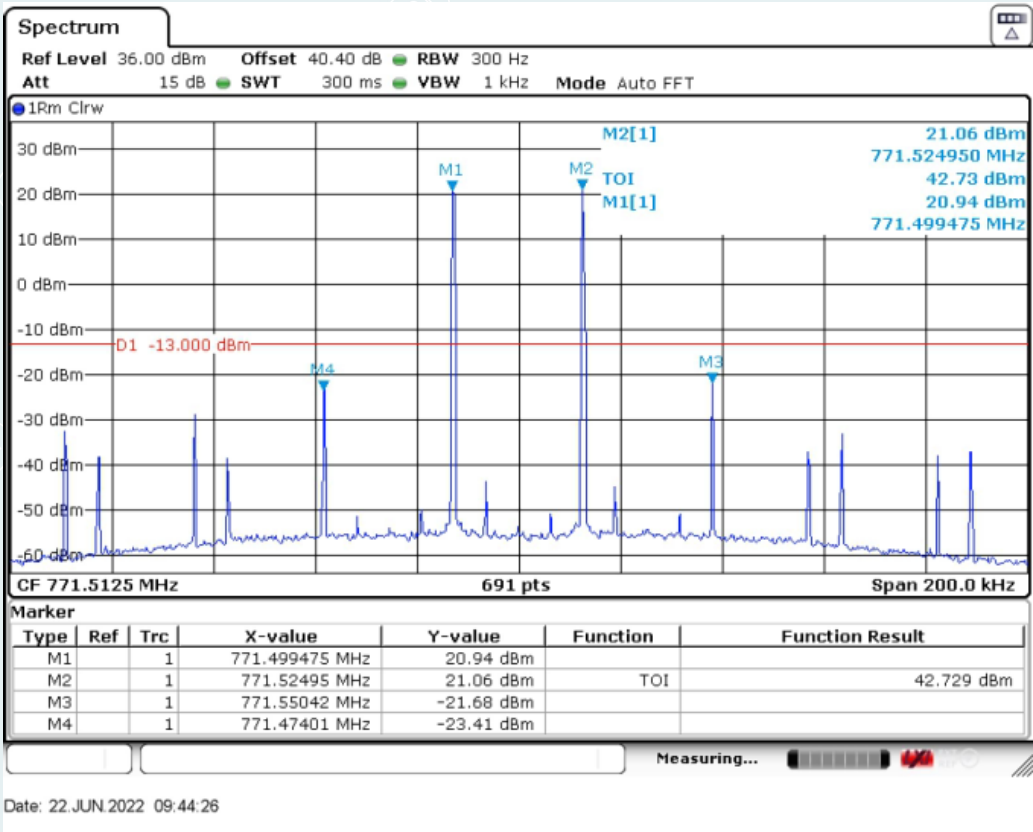
Low Frequency and with the ALC threshold level



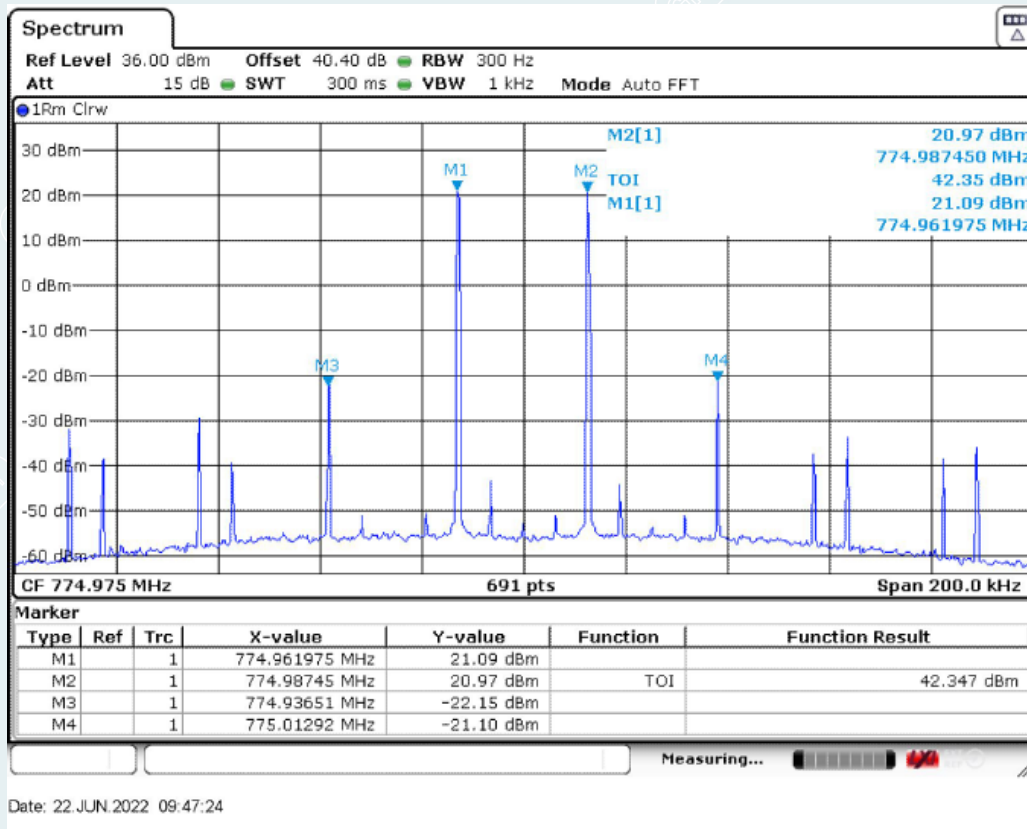
Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



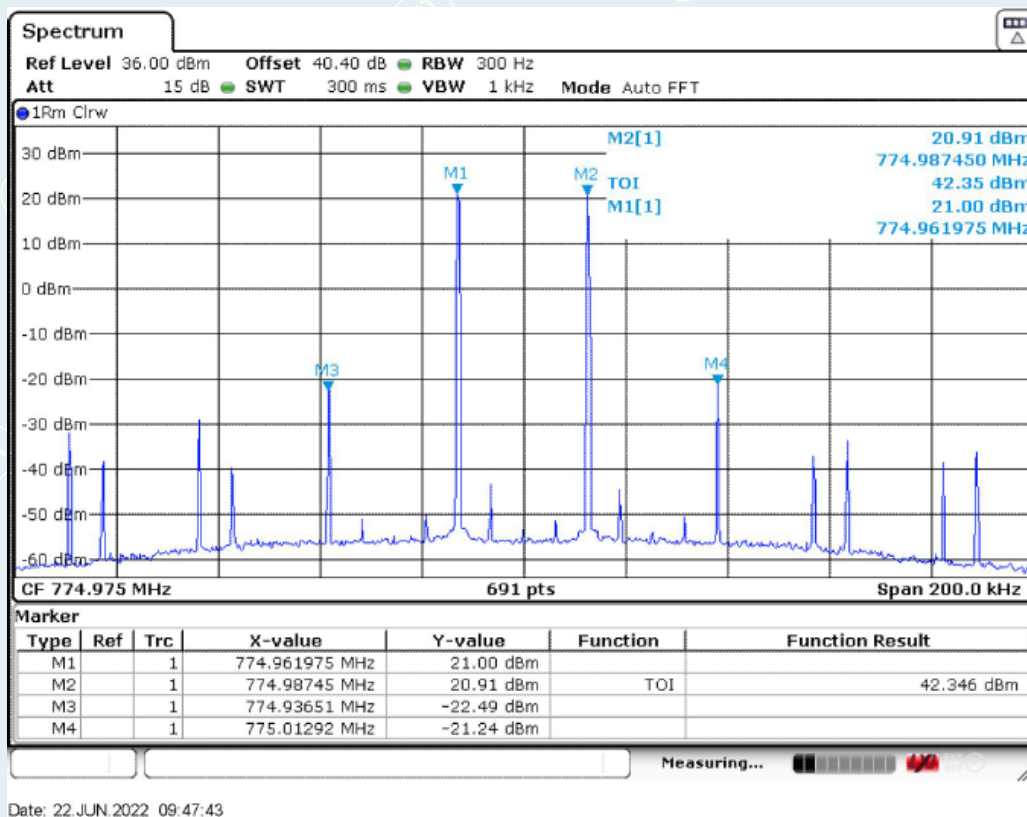
Mid Frequency and with the ALC threshold level



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

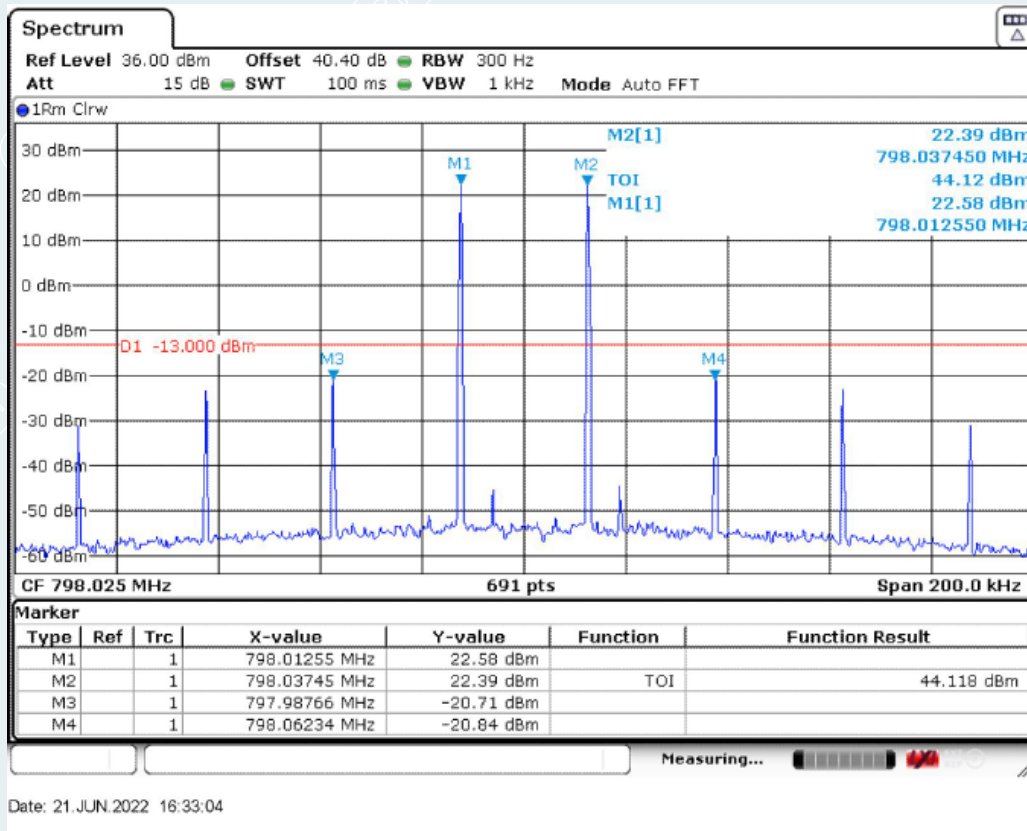


High Frequency and with the ALC threshold level

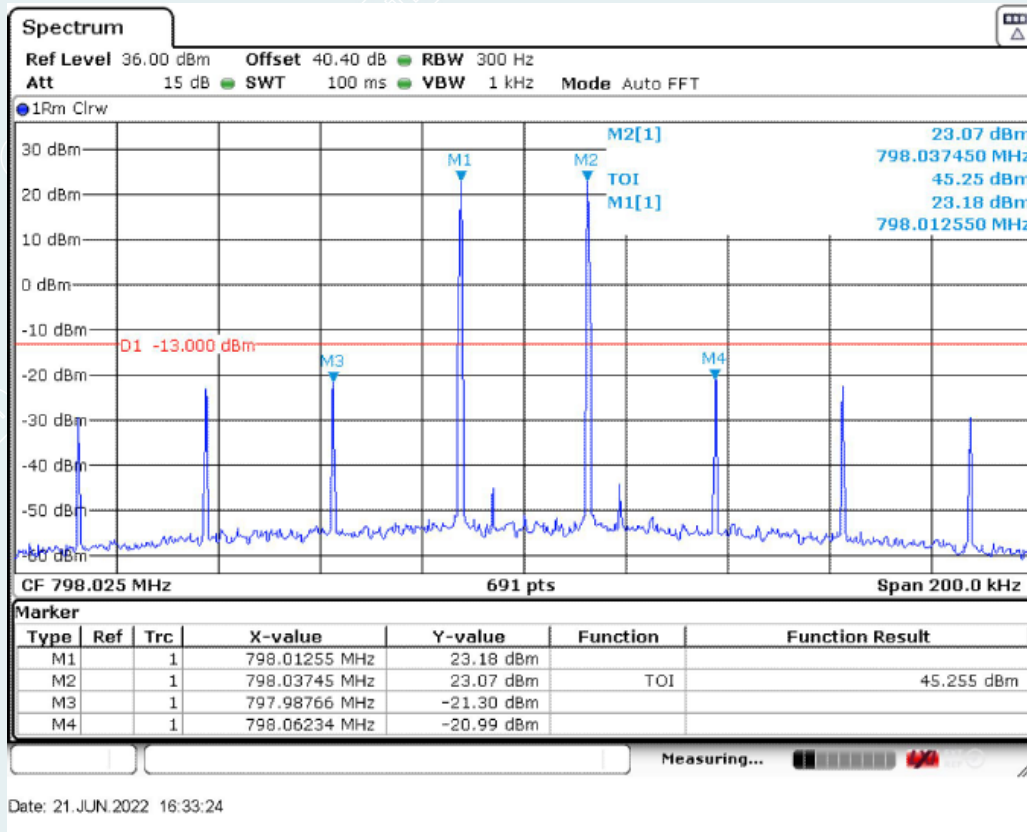


High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

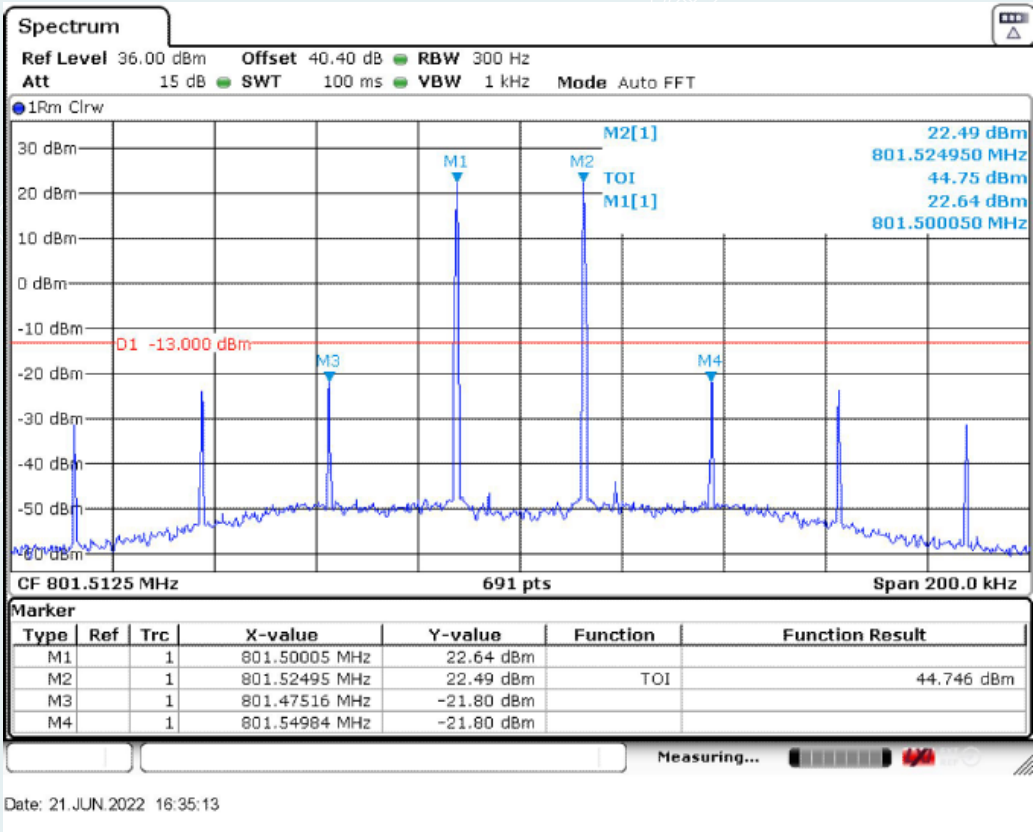
10.8.5.1.2.2. Uplink



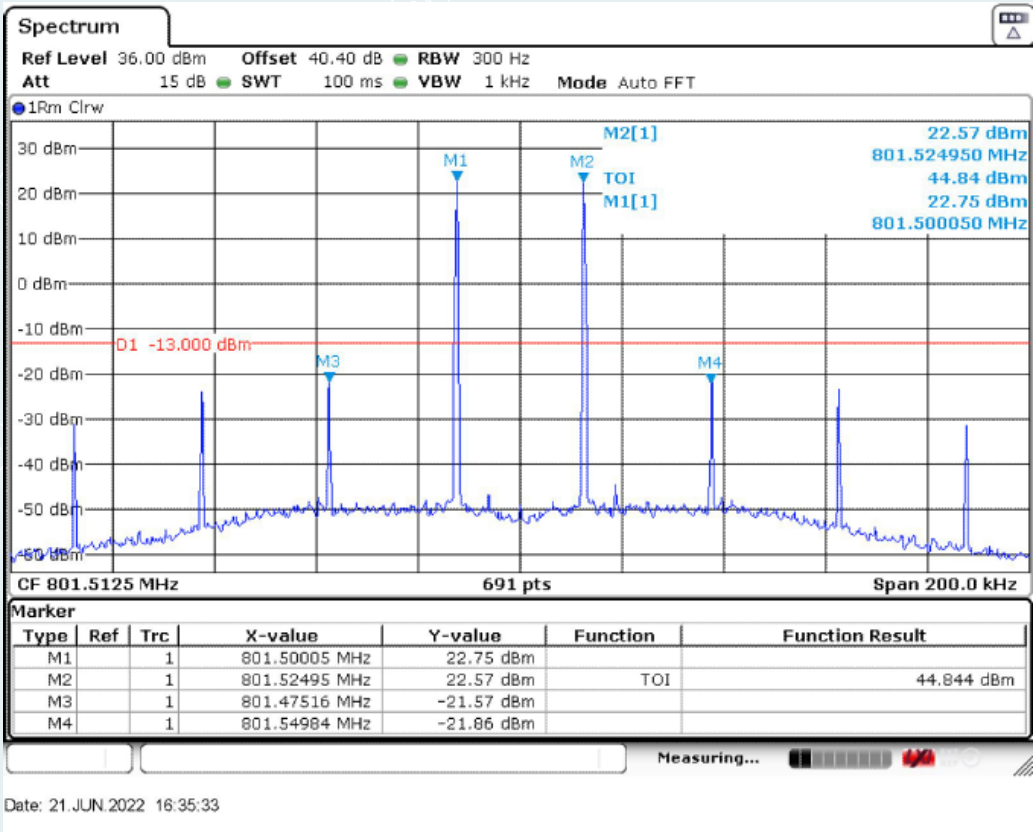
Low Frequency and with the ALC threshold level



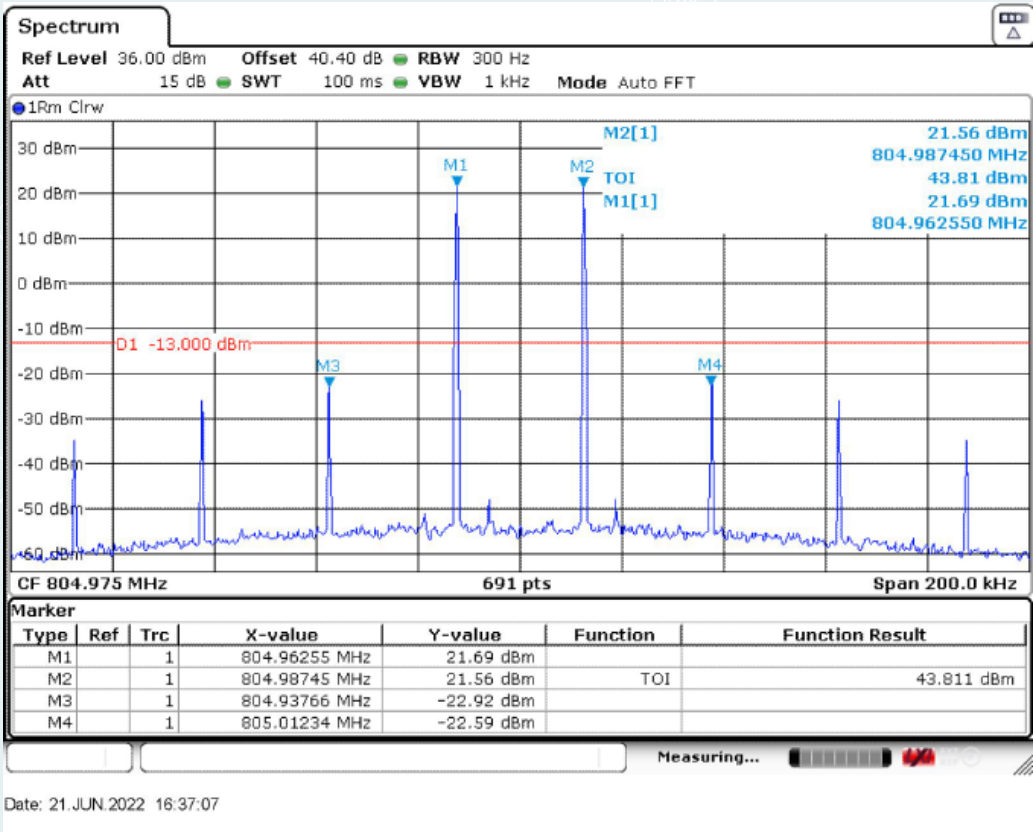
Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



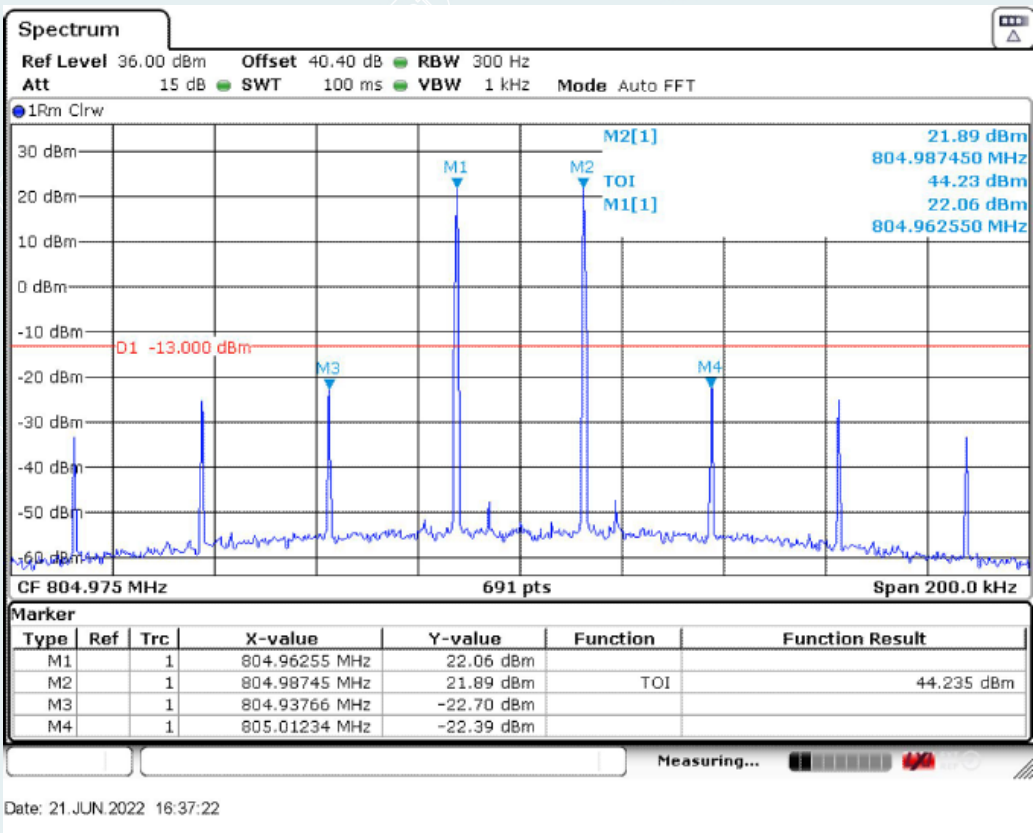
Mid Frequency and with the ALC threshold level



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



High Frequency and with the ALC threshold level

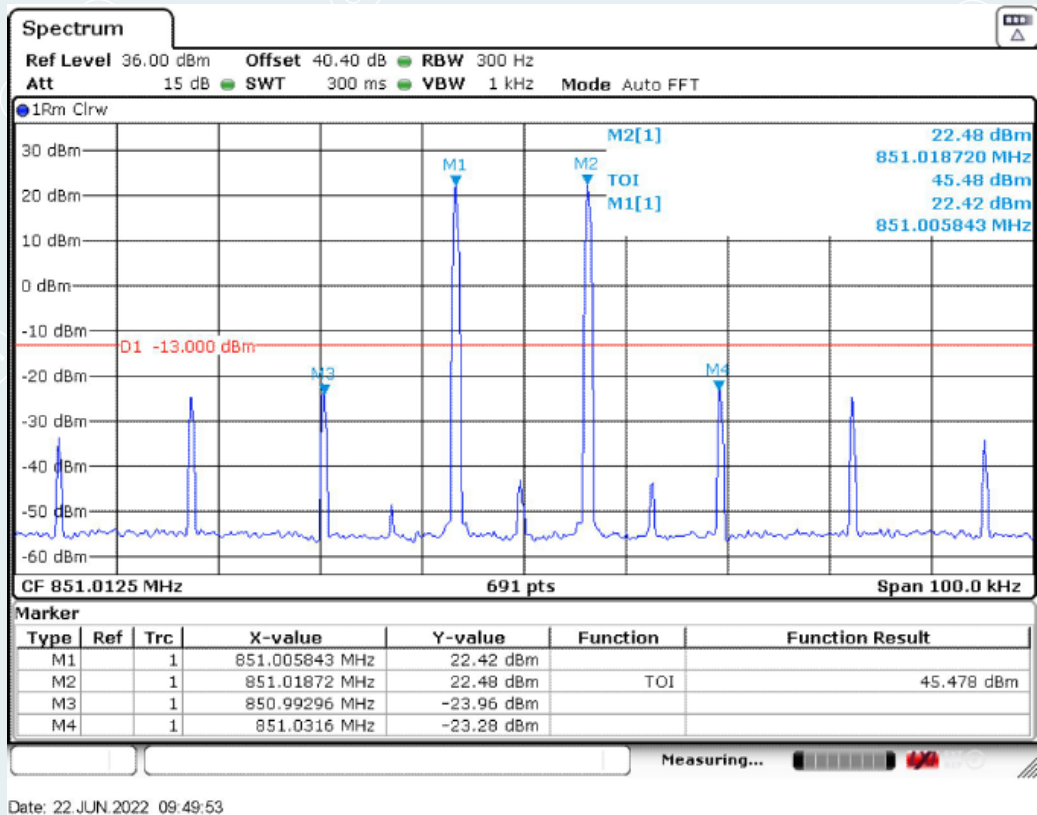


High Frequency and with the input signal amplitude set 3 dB above the ALC threshold

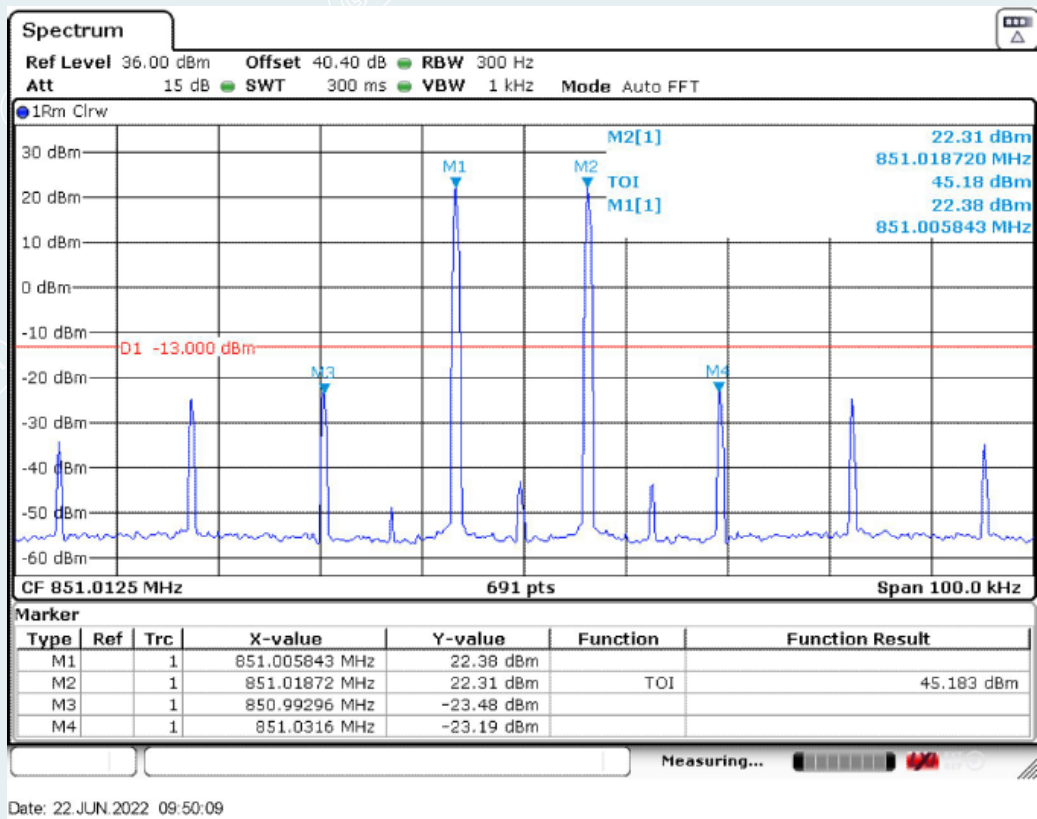
10.8.5.2. 800MHz Band

10.8.5.2.1. Channel bandwidth 12.5kHz

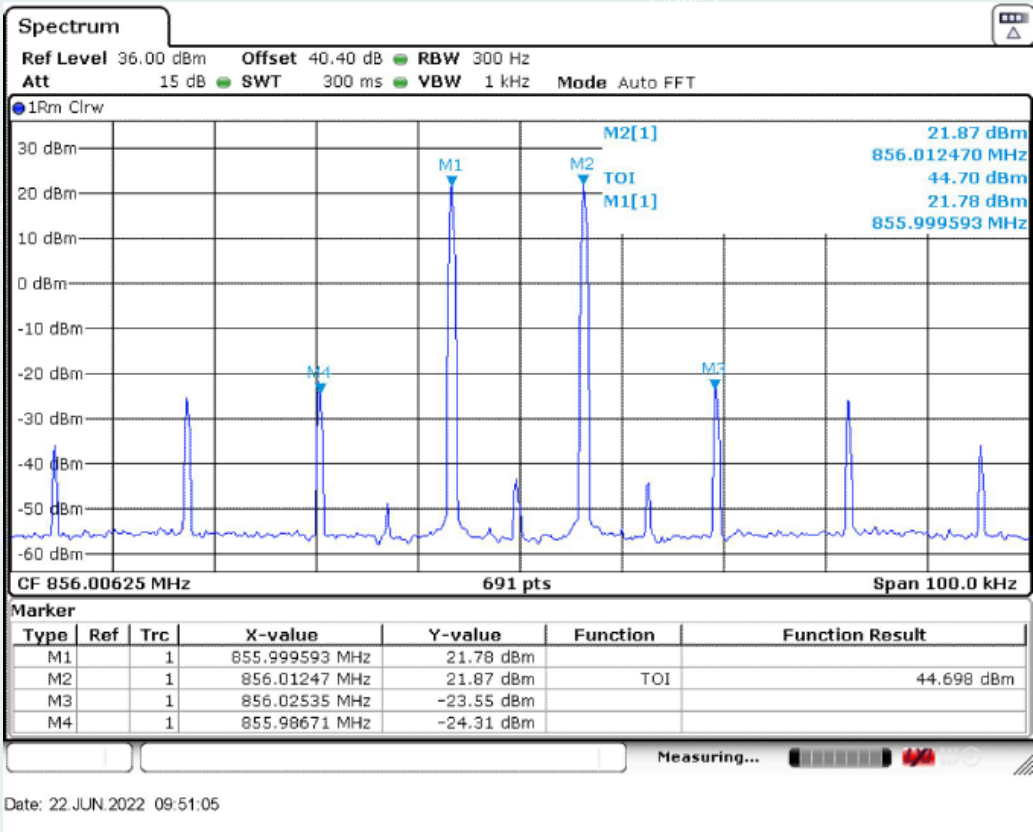
10.8.5.2.1.1. Downlink



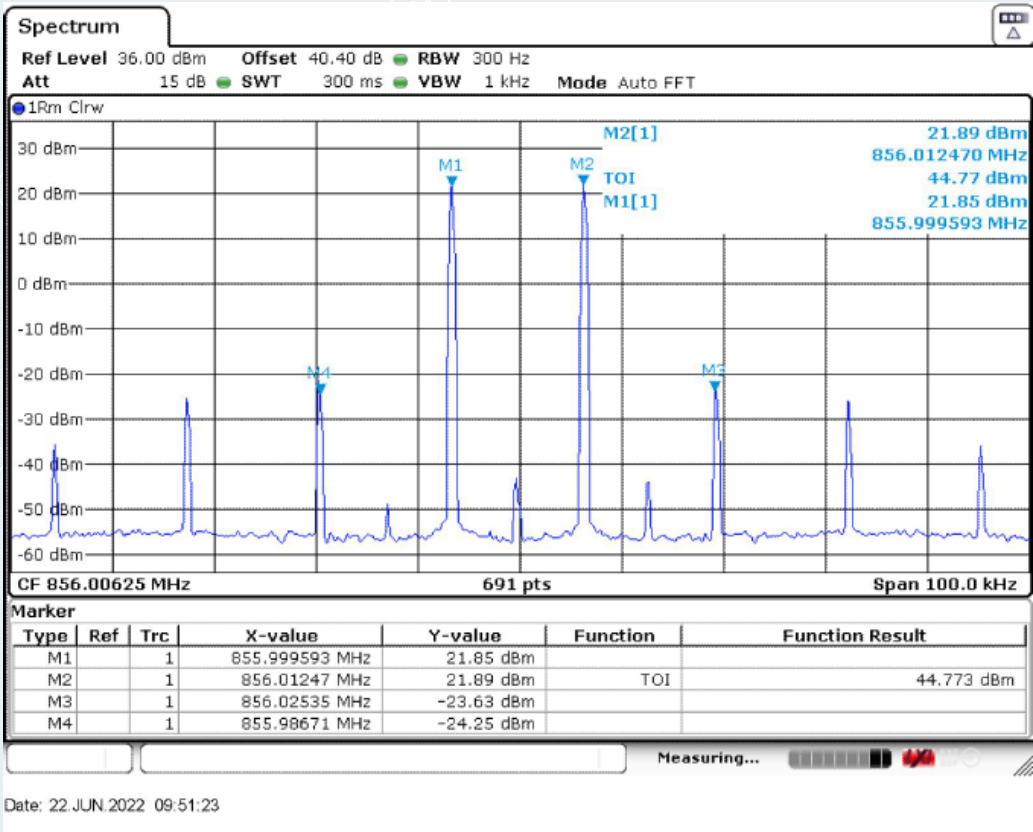
Low Frequency and with the ALC threshold level



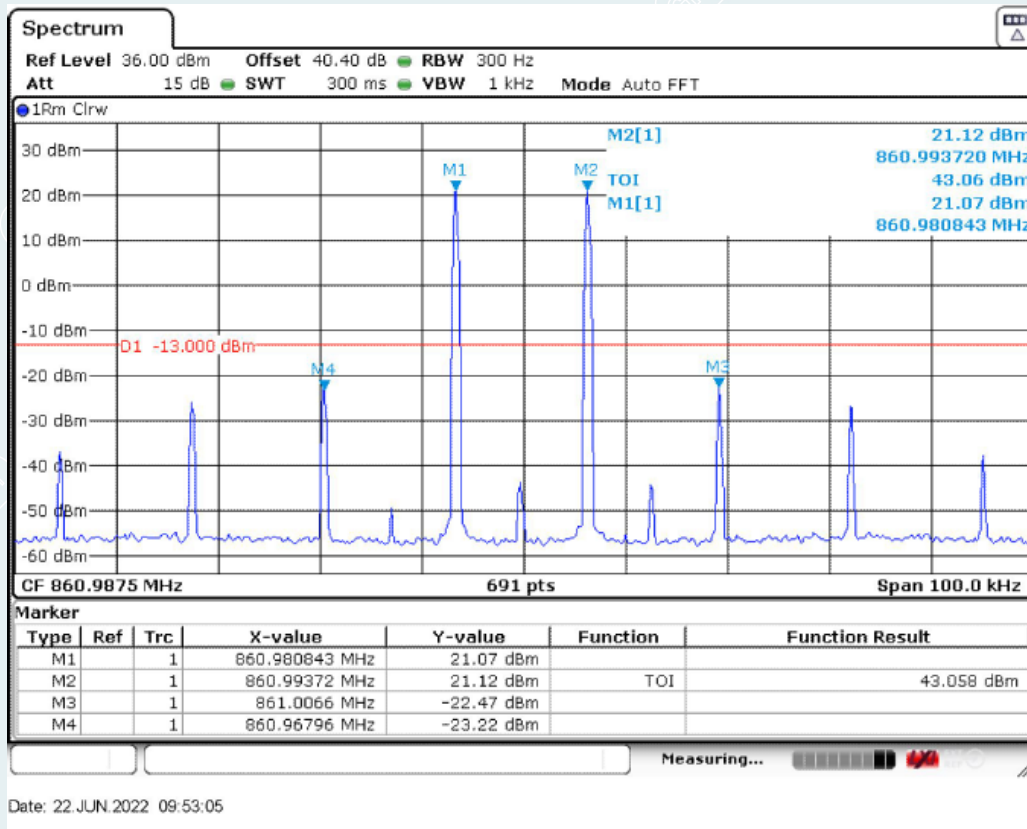
Low Frequency and with the input signal amplitude set 3 dB above the ALC threshold



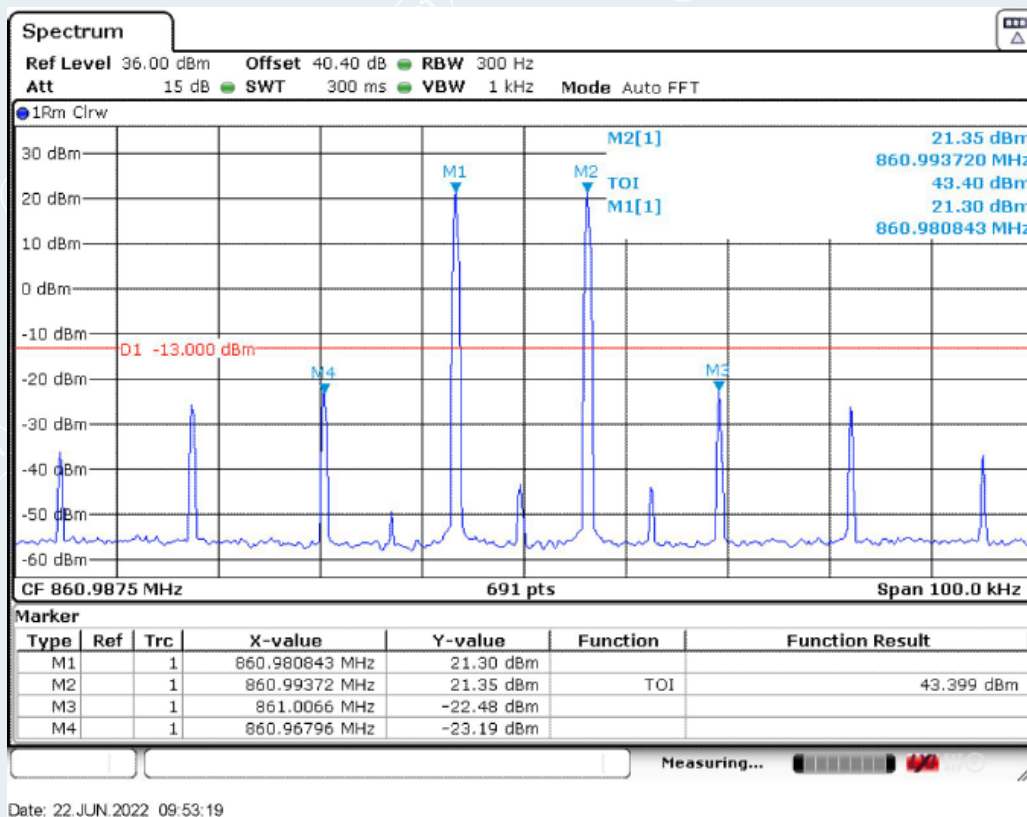
Mid Frequency and with the ALC threshold level



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