



2.3 BAND EDGE

2.3.1 Specification Reference

FCC CFR 47 Part 27, Clause 27.53 (I)
FCC CFR 47 Part 2, Clause 2.1051

2.3.2 Date of Test and Modification State

06 and 20 May 2021 - Modification State 0

2.3.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.3.4 Environmental Conditions

Ambient Temperature 22.5 - 36.8°C
Relative Humidity 18.5 – 23.2%

2.3.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01, Clause 6.0.

Band Edge measurements used an Integration Bandwidth of at least 1% of the measured 26dB Bandwidth.

Each antenna port has been declared as being equivalent, therefore measurements were made on one antenna port only. To account for this, the limit was tightened by $10 * \text{Log}(N)$, where N is equal to the number of MIMO antenna ports.

For single port, the limit was calculated as being $-13 \text{ dBm} - 10 * \text{Log}(1) = -13 \text{ dBm}$.

For 64 port, the limit was calculated as being $-13 \text{ dBm} - 10 * \text{Log}(64) = -31.06 \text{ dBm}$.

2.3.6 Test Results

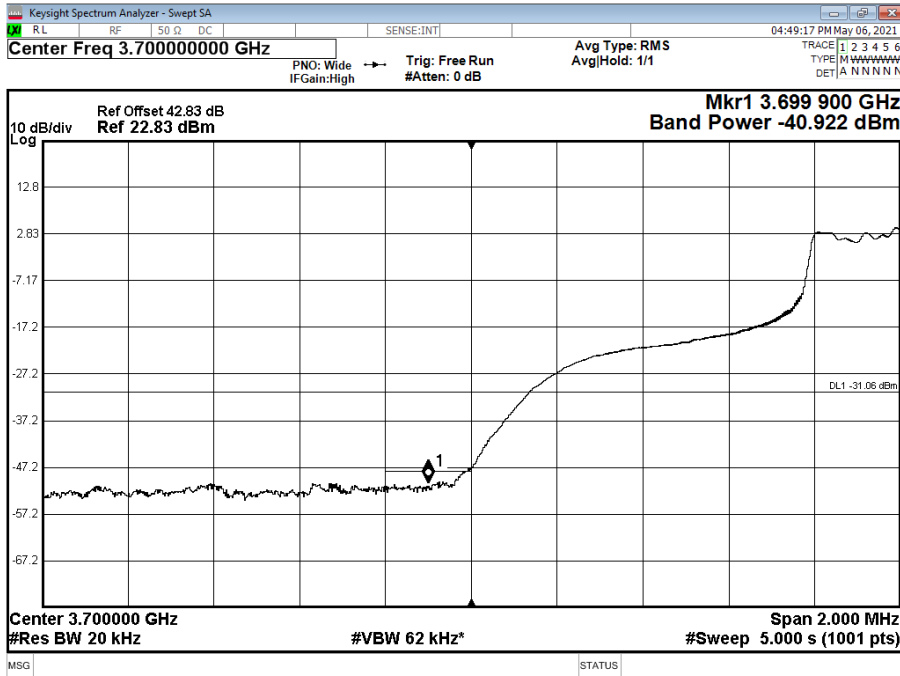
Configuration 1

Maximum Output Power 34.00 dBm

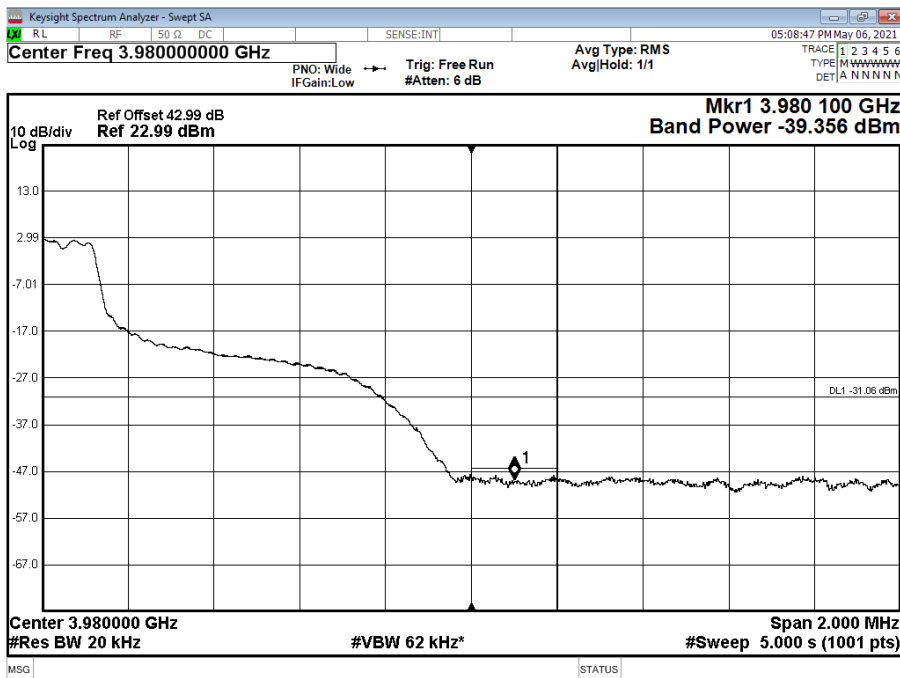
Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	20.00 MHz 30 kHz SCS	3,710.01	3,969.99



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position T



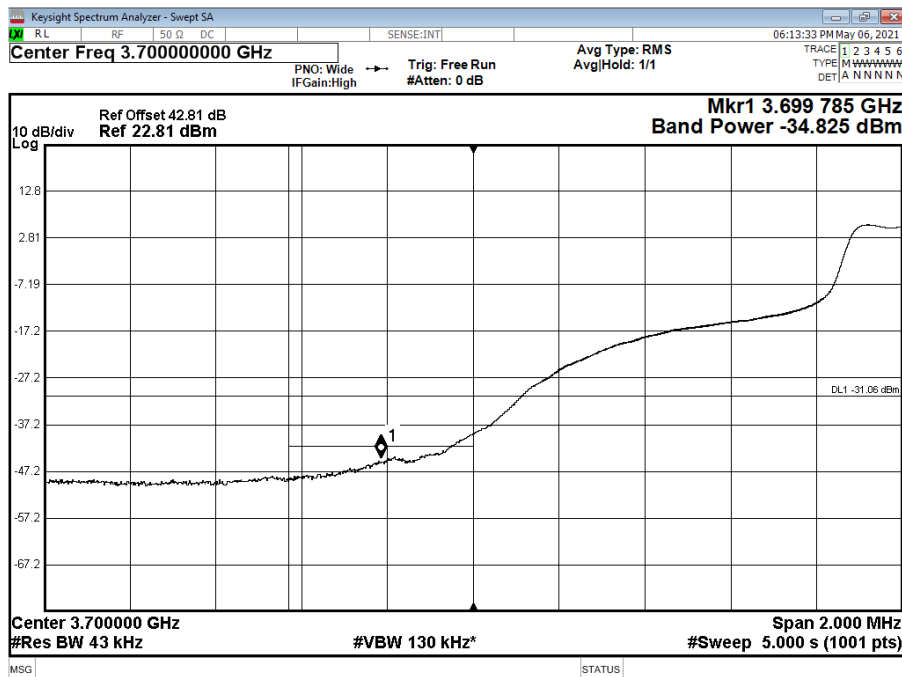


Configuration 2

Maximum Output Power 37.00 dBm

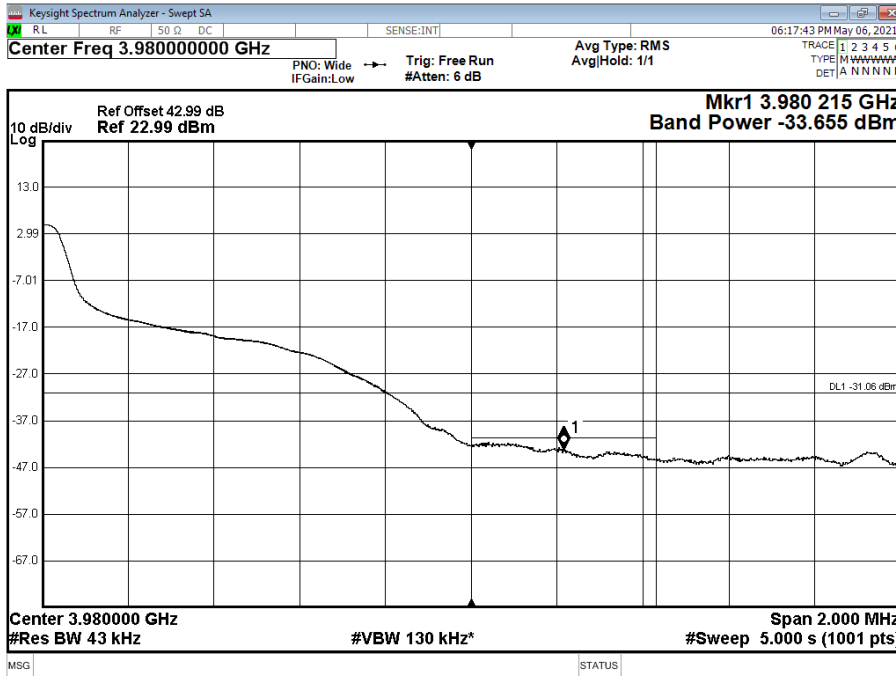
Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	40.00 MHz 30 kHz SCS	3,720.00	3,960.00

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B





Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T



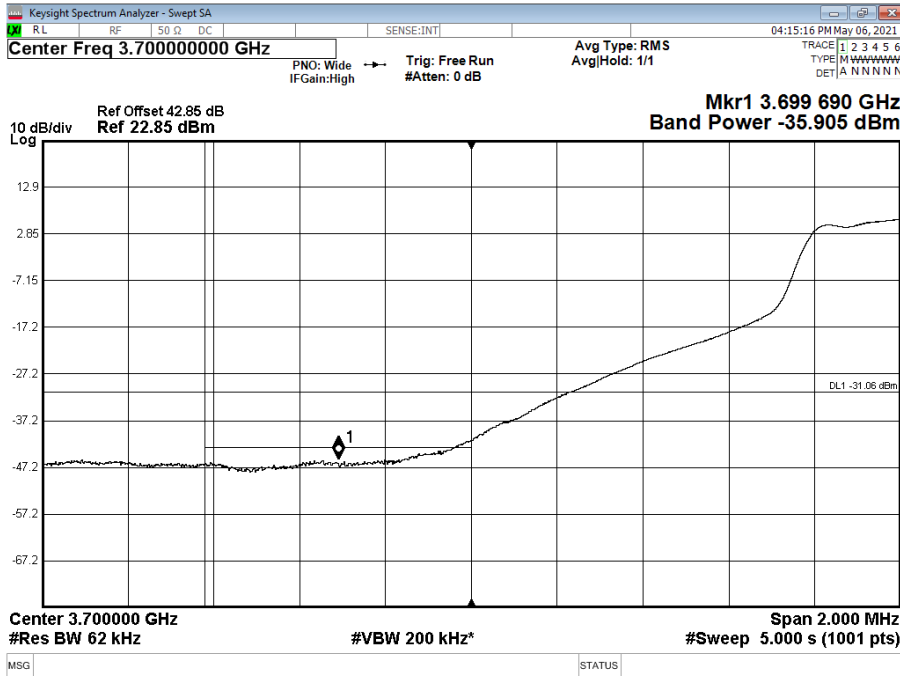
Configuration 3

Maximum Output Power 37.00 dBm

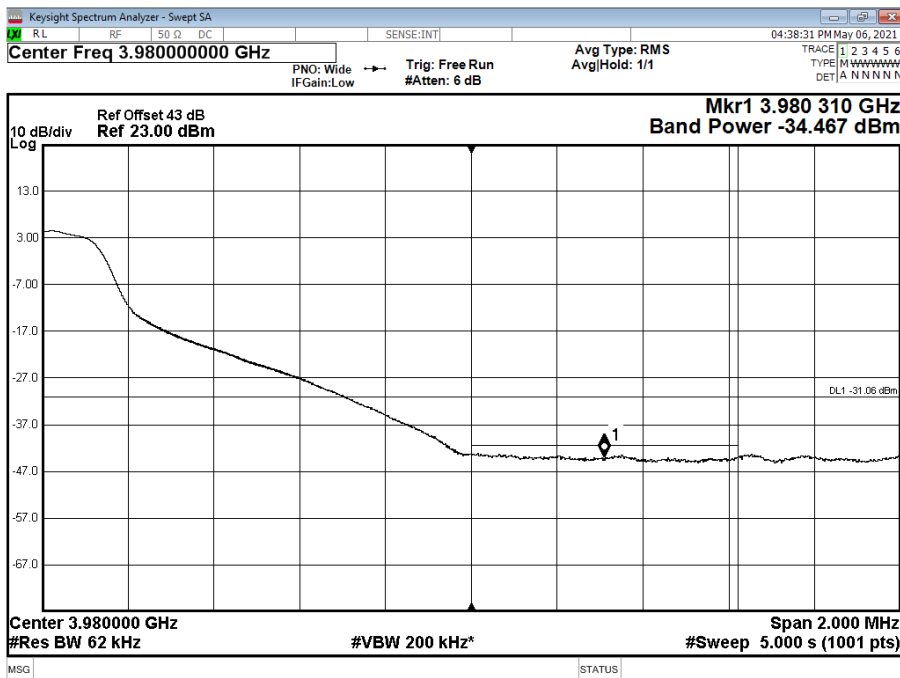
Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	60.00 MHz 30 kHz SCS	3,729.99	3,950.01



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position B



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position T



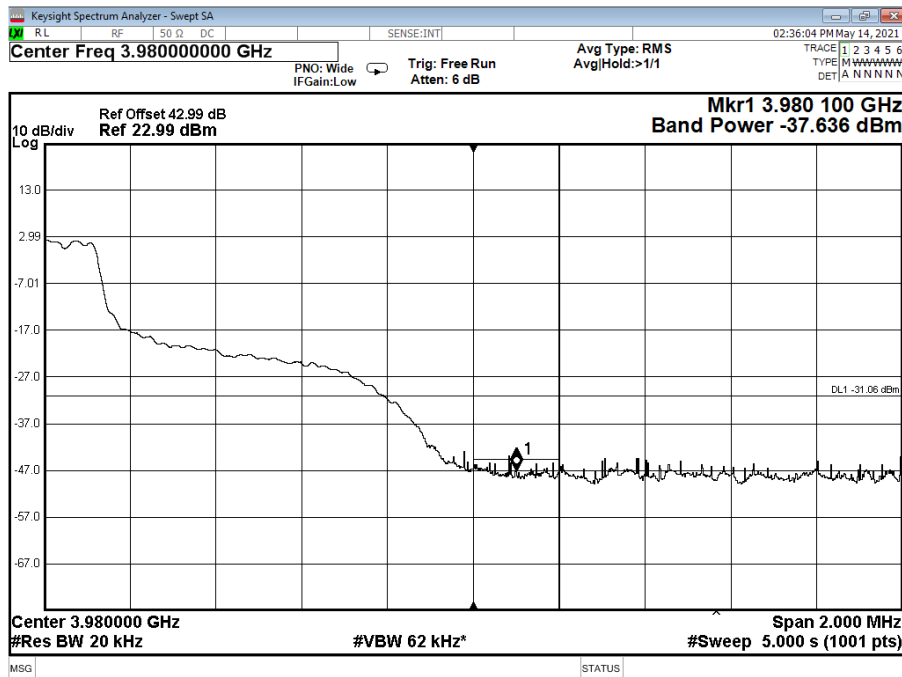


Configuration 4

Maximum Output Power 34.00 dBm

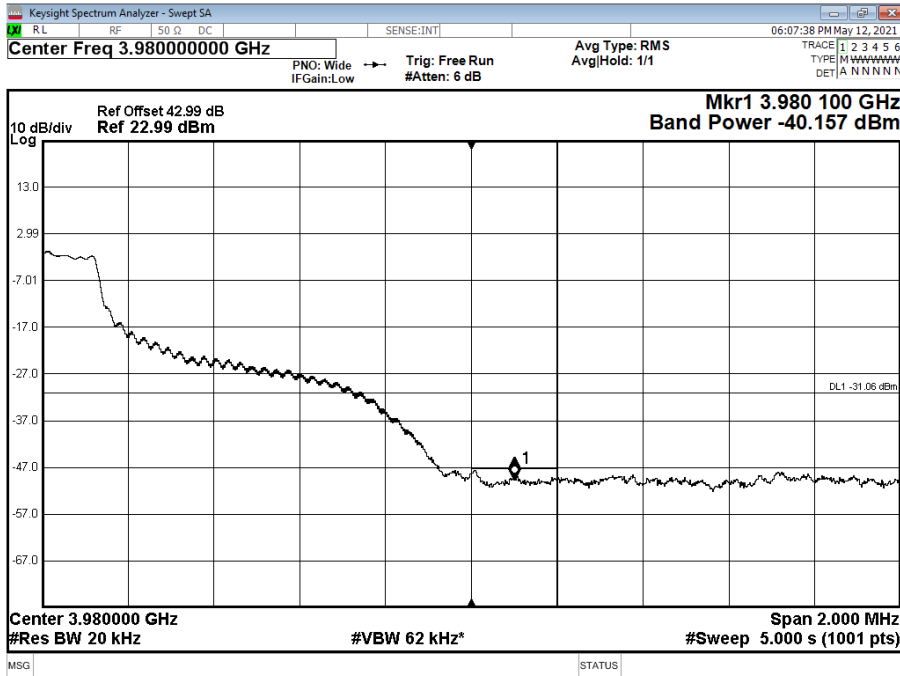
Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	20.00 MHz 30 kHz SCS	3710.01+3729.99	3950.01+3969.99

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B





Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position T



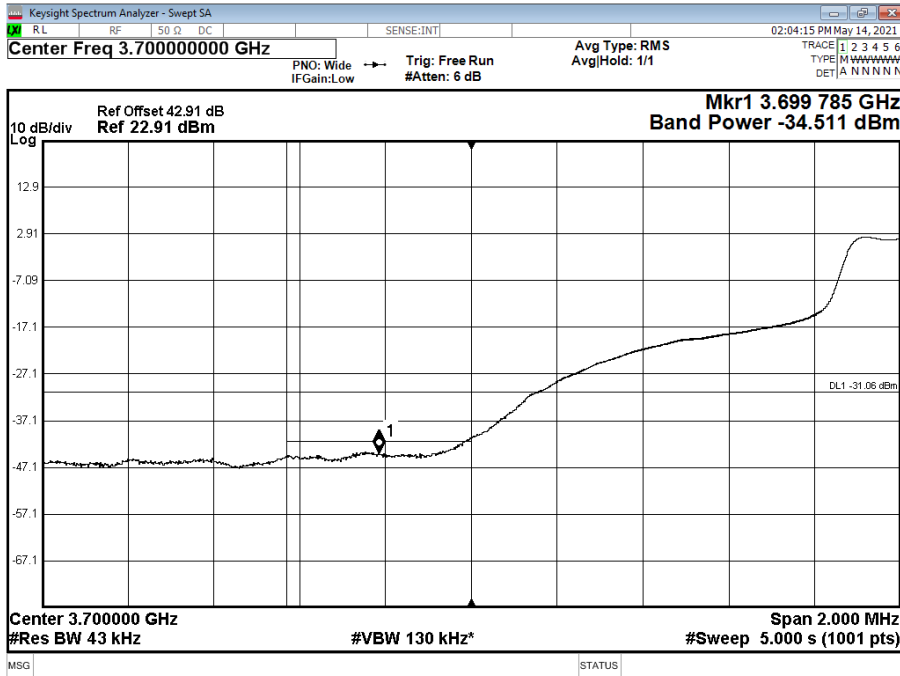
Configuration 4

Maximum Output Power 34.00 dBm

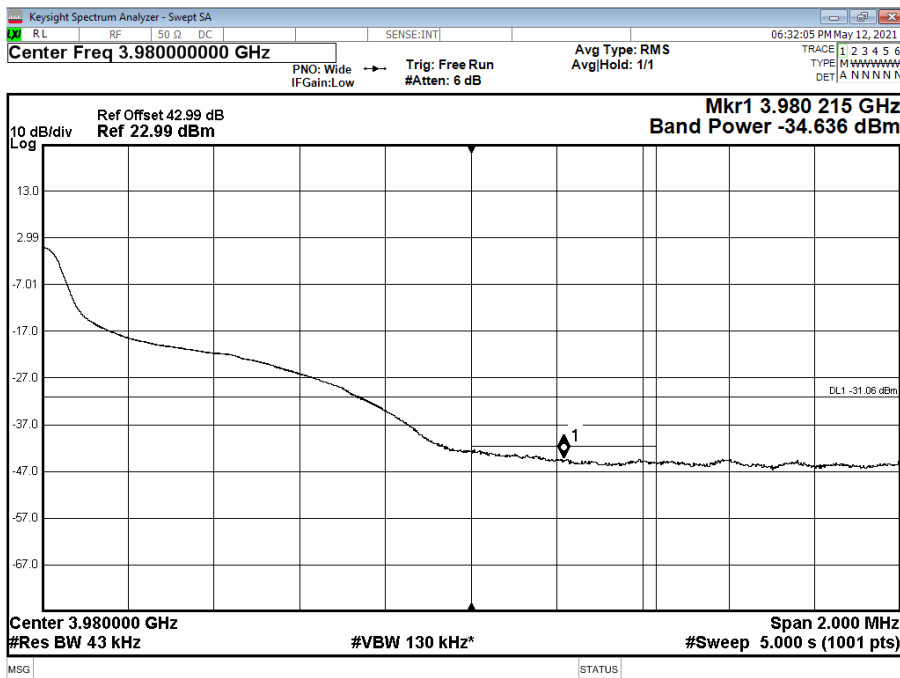
Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	40.00 MHz 30 kHz SCS	3720.00+3759.99	3920.01+3960.00



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T



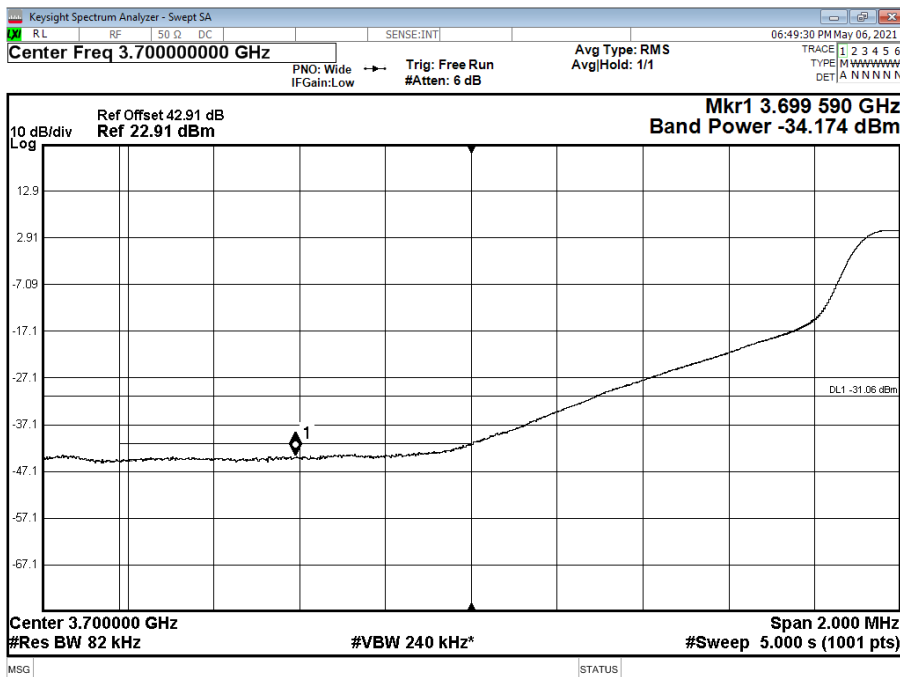


Configuration 5

Maximum Output Power 37.00 dBm

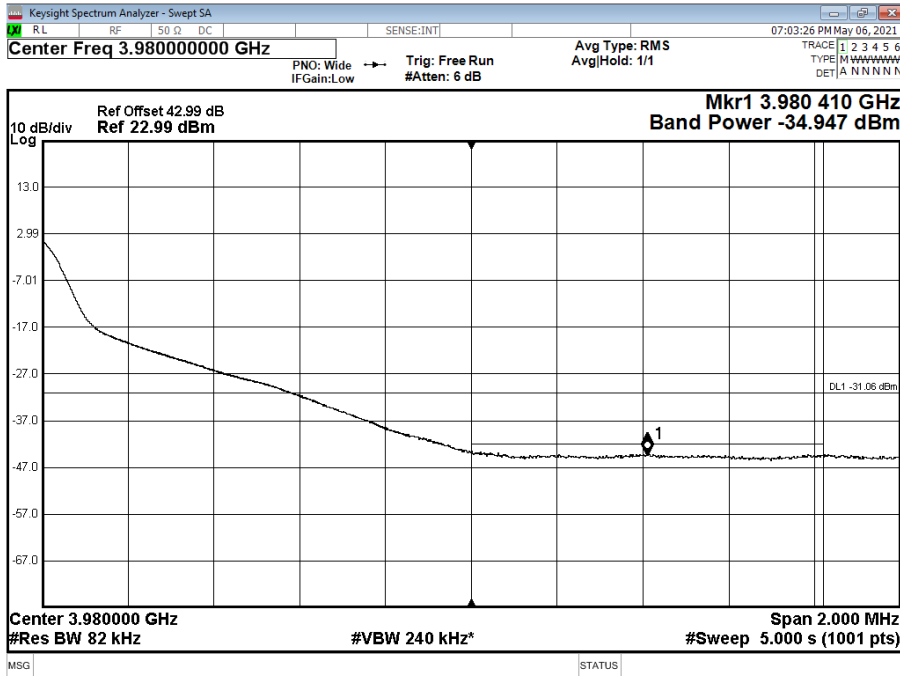
Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	80.00 MHz 30 kHz SCS	3,740.01	3,939.99

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B





Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T



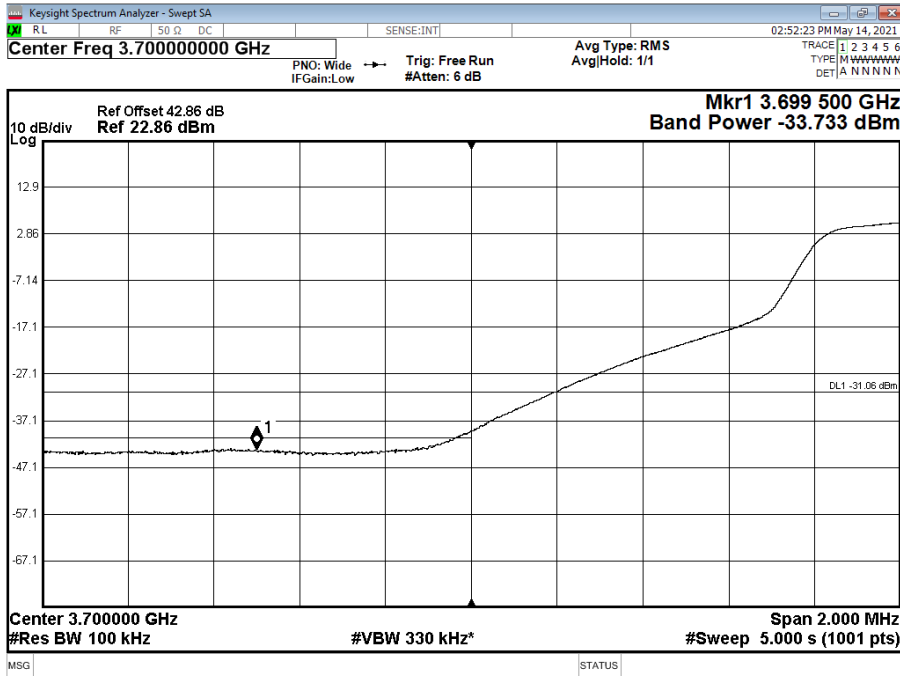
Configuration 5

Maximum Output Power 37.00 dBm

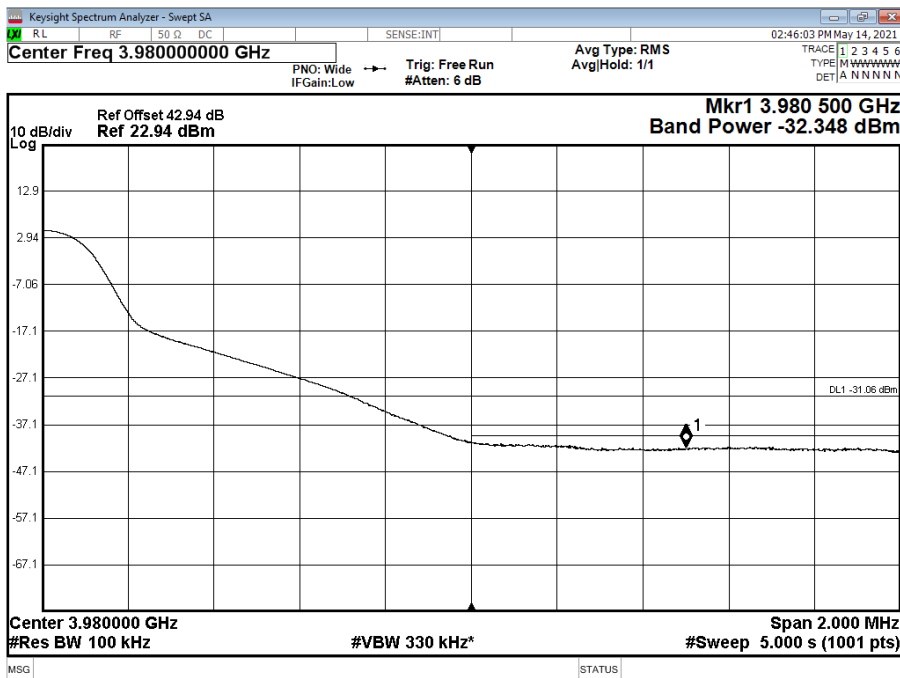
Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	100.00 MHz 30 kHz SCS	3,750.00	3,930.00



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position B



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position T



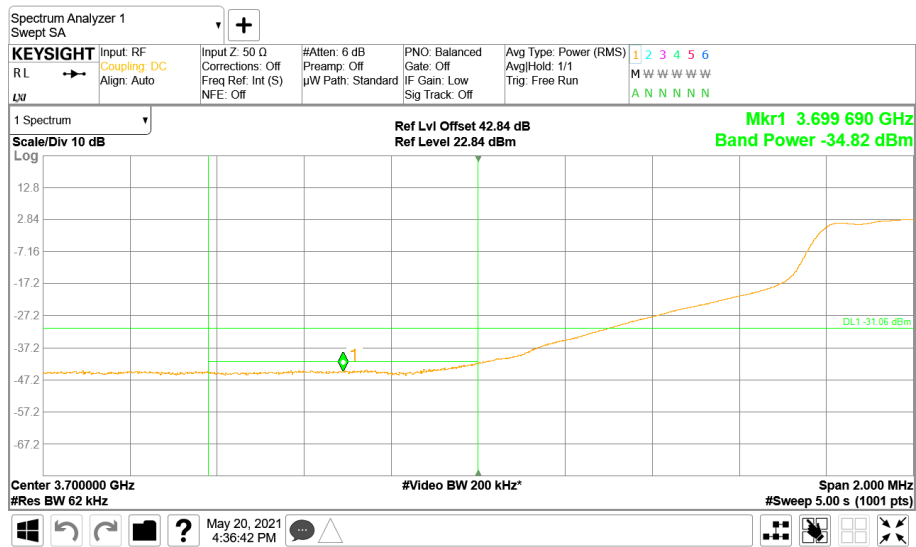


Configuration 6

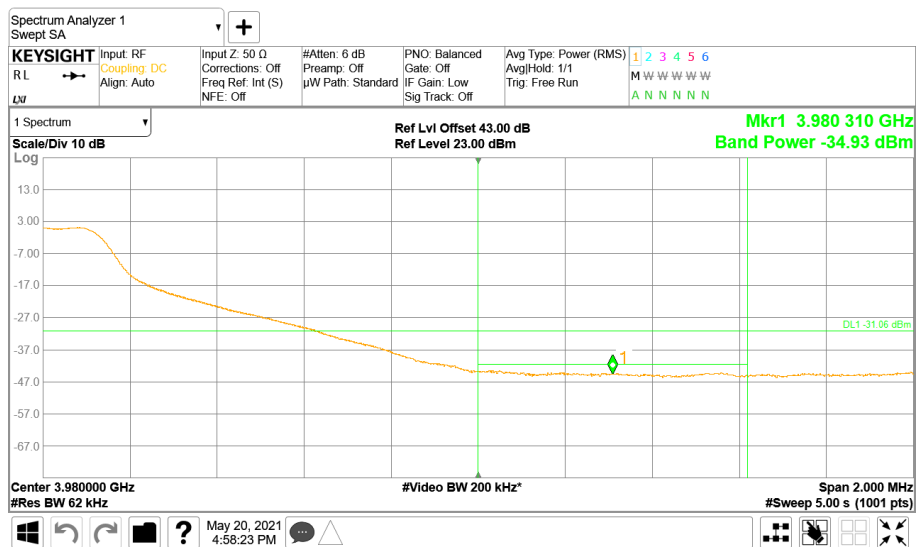
Maximum Output Power 37.00 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	60.00 MHz 30 kHz SCS	3729.99+3789.99	3890.01+3950.0

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position B



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position T



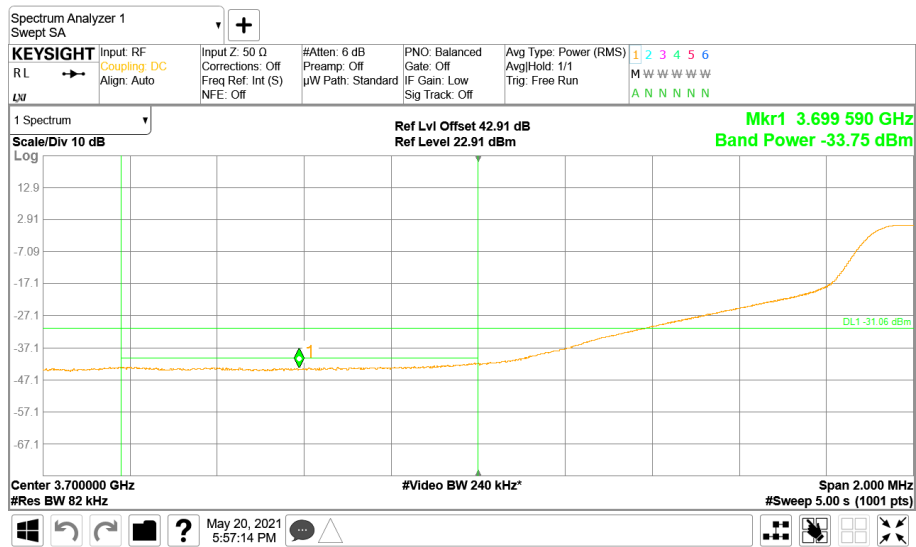


Configuration 6

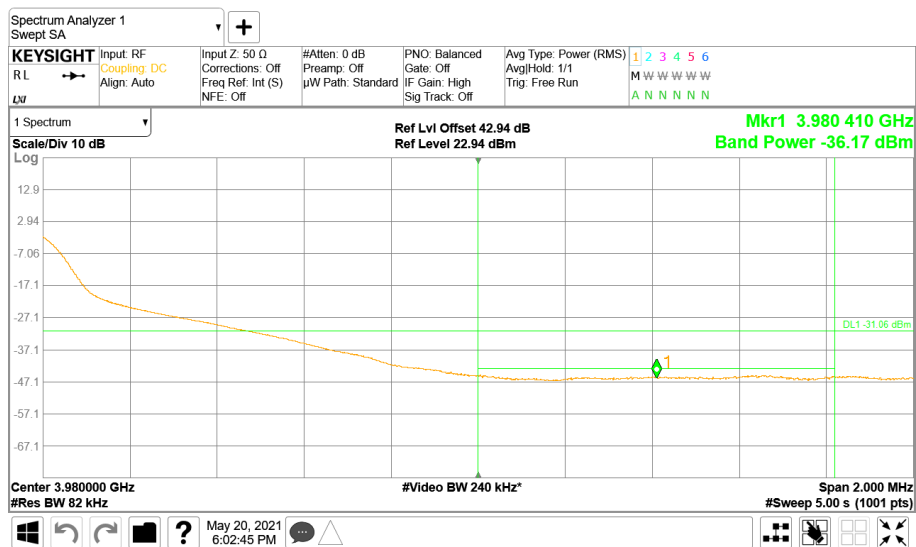
Maximum Output Power 37.00 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	80.00 MHz 30 kHz SCS	3740.01+3819.99	3939.99+3860.01

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T



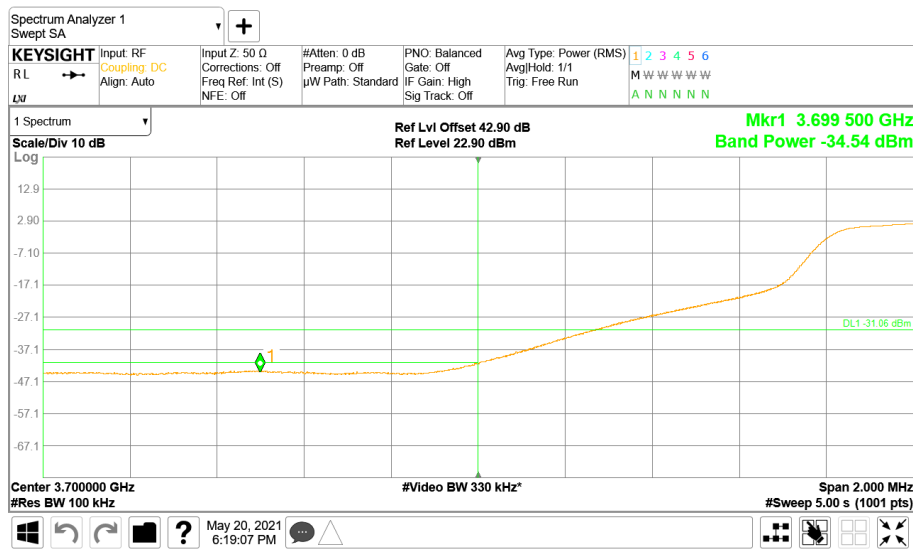


Configuration 6

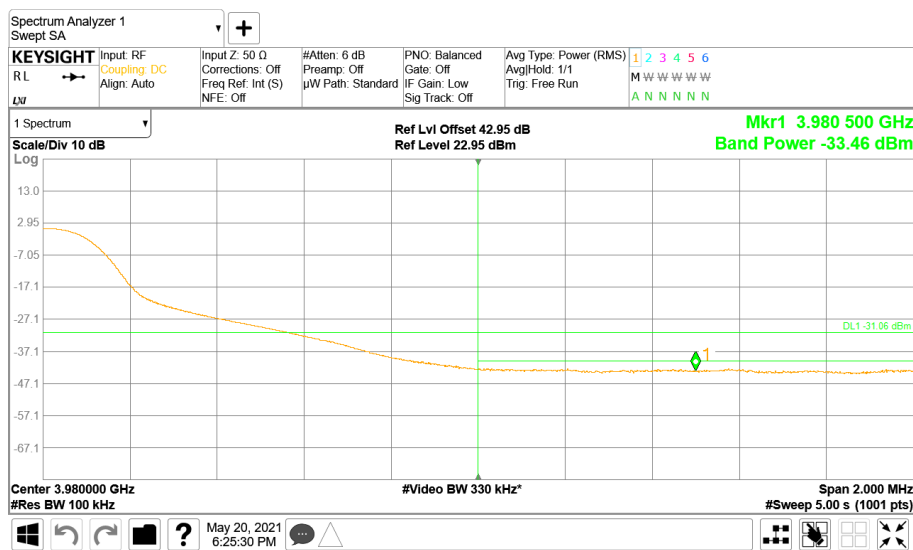
Maximum Output Power 37.00 dBm

Antenna	NR Modulation	NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B	Channel Position T
3	64QAM	100.00 MHz 30 kHz SCS	3750.00+3849.99	3830.01+3930.00

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position B



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position T





2.4 TRANSMITTER SPURIOUS EMISSIONS

2.4.1 Specification Reference

FCC CFR 47 Part 27, Clause 27.53 (I)
FCC CFR 47 Part 2, Clause 2.1051

2.4.2 Date of Test and Modification State

21 and 22 May 2021 - Modification State 0

2.4.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.4.4 Environmental Conditions

Ambient Temperature	23.9°C
Relative Humidity	36.9%

2.4.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01, Clause 6.1.

Each antenna port has been declared as being equivalent, therefore measurements were made on one antenna port only. To account for this, the limit was tightened by $10 * \text{Log}(N)$, where N is equal to the number of MIMO antenna ports.

For single port, the limit was calculated as being $-13 \text{ dBm} - 10 * \text{Log}(1) = -13 \text{ dBm}$.

For 64 port, the limit was calculated as being $-13 \text{ dBm} - 10 * \text{Log}(64) = -31.06 \text{ dBm}$.

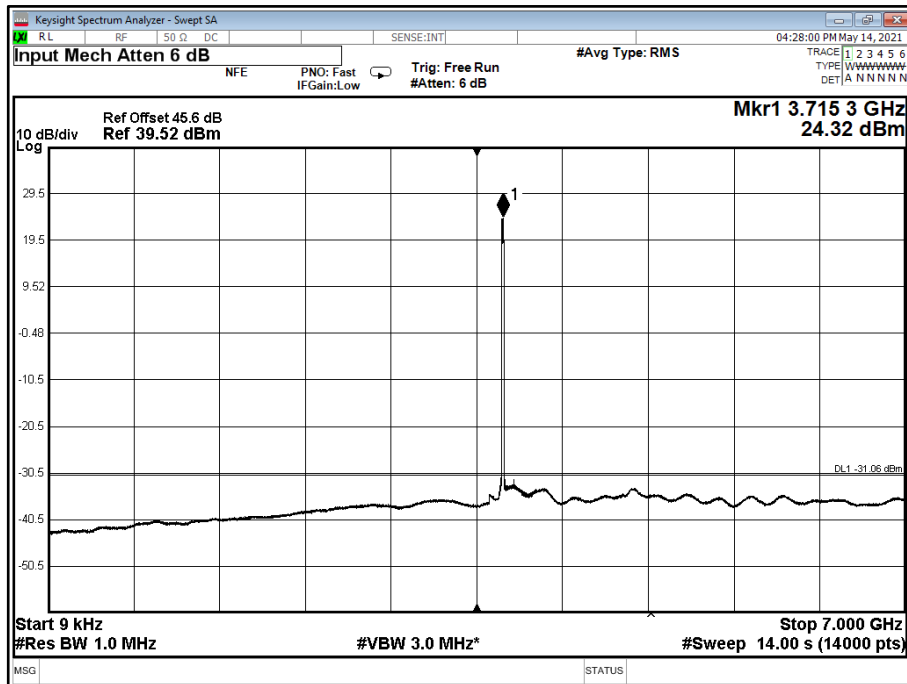


2.4.6 Test Results

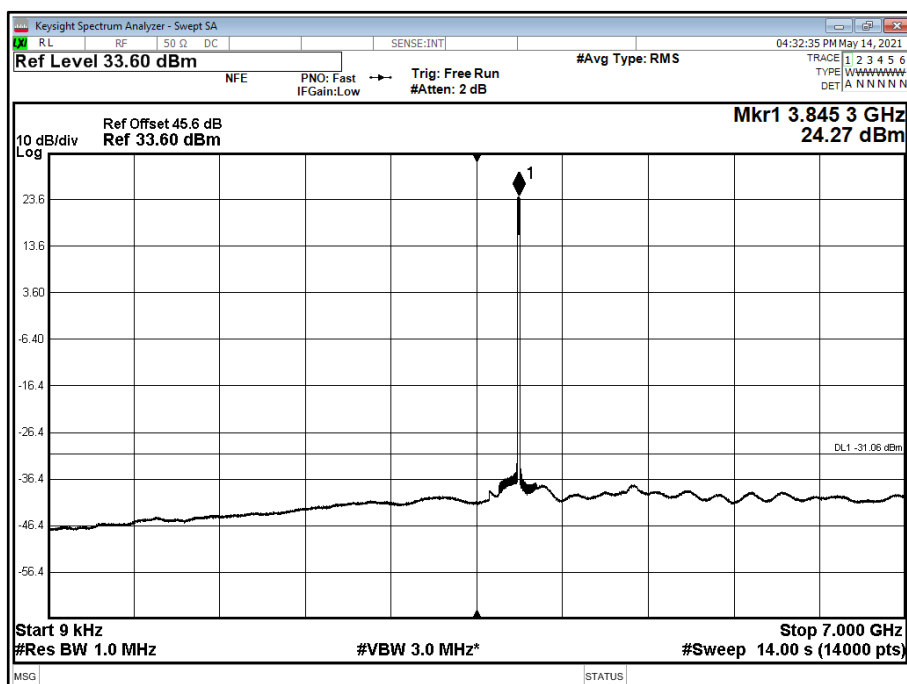
Configuration 1

Maximum Output Power 34.00 dBm

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position B - Band 1.00 - Range 0.009 to 7000 MHz

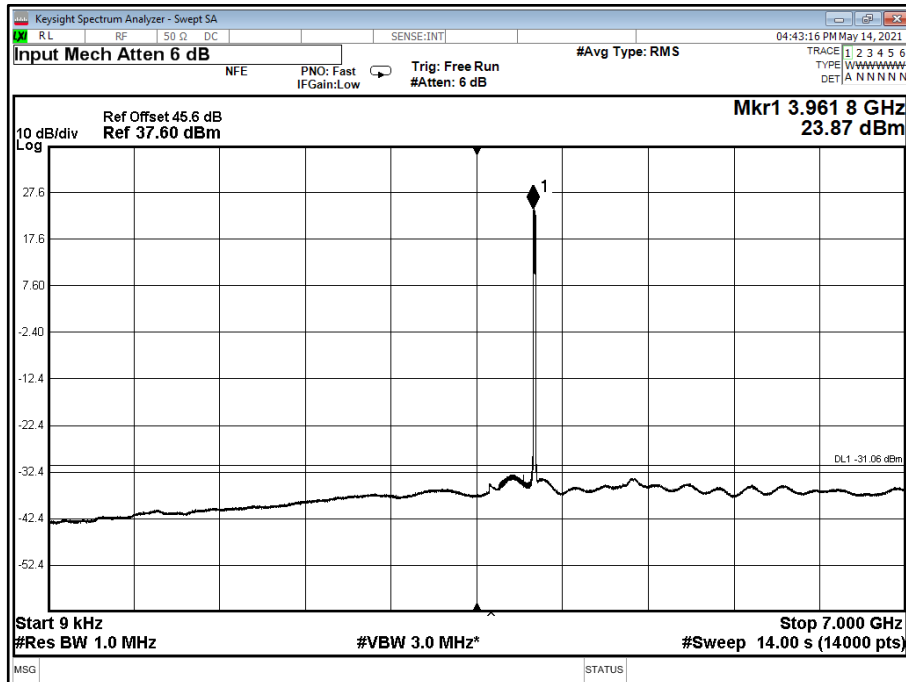


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position M - Band 1.00 - Range 0.009 to 7000 MHz

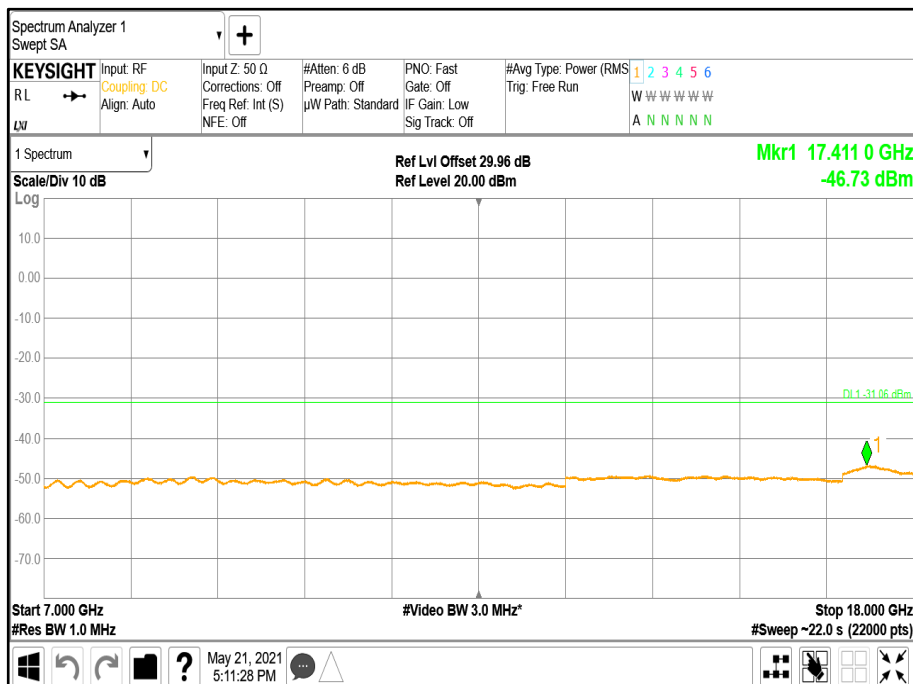




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position T - Band 1.00 - Range 0.009 to 7000 MHz

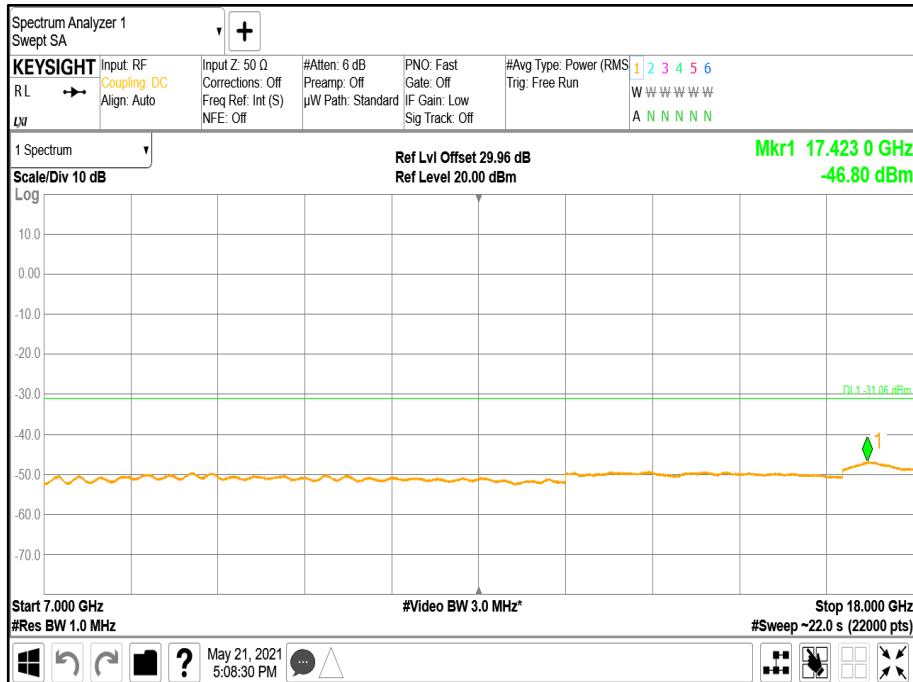


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position B - Band 2 - Range 7000 to 18000 MHz

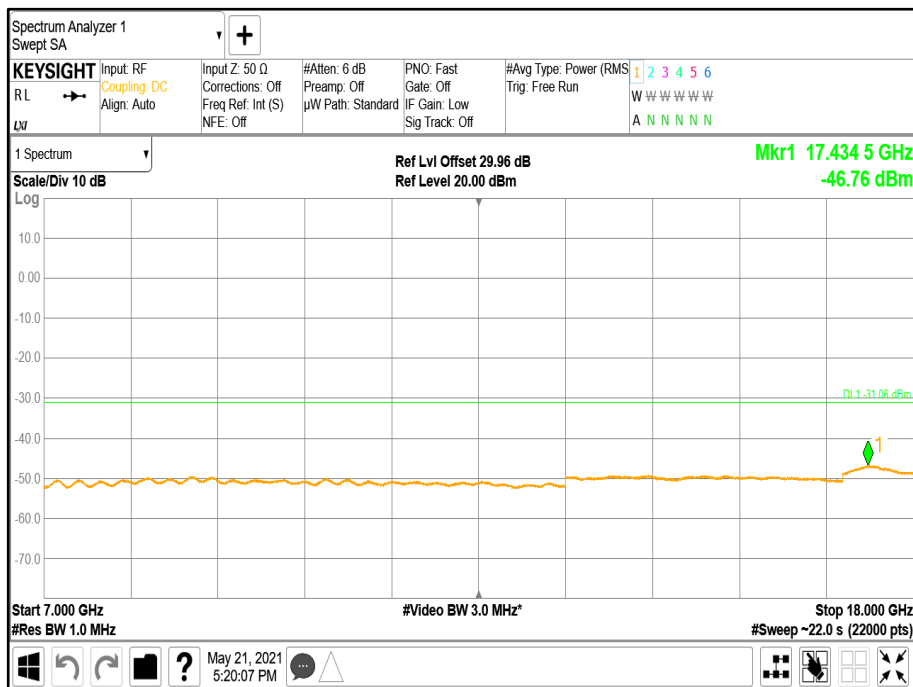




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position M - Band 2 - Range 7000 to 18000 MHz

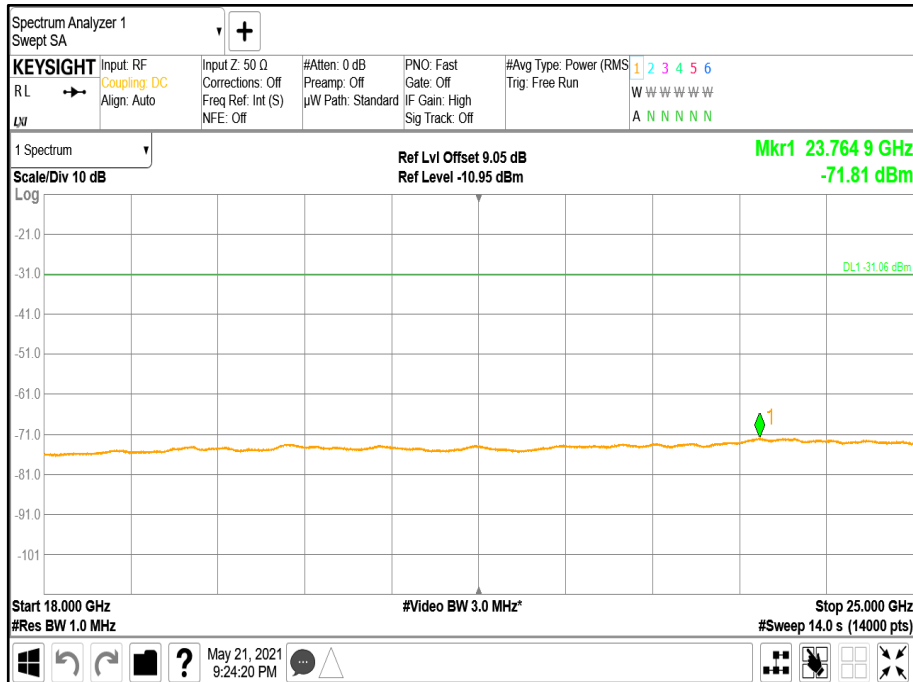


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position T - Band 2 - Range 7000 to 18000 MHz

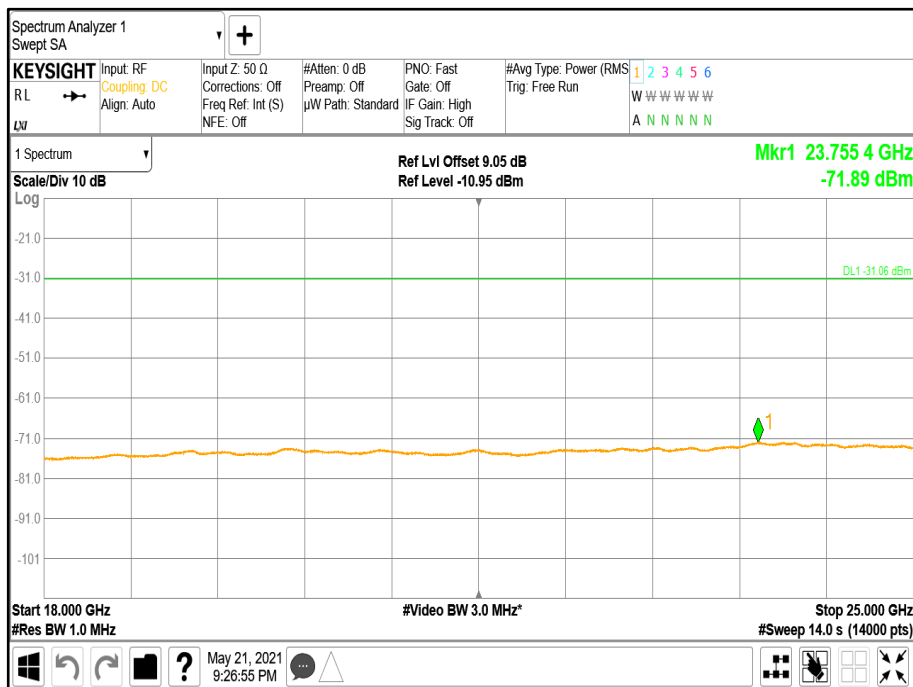




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position B - Band 3 - Range 18000 to 25000 MHz

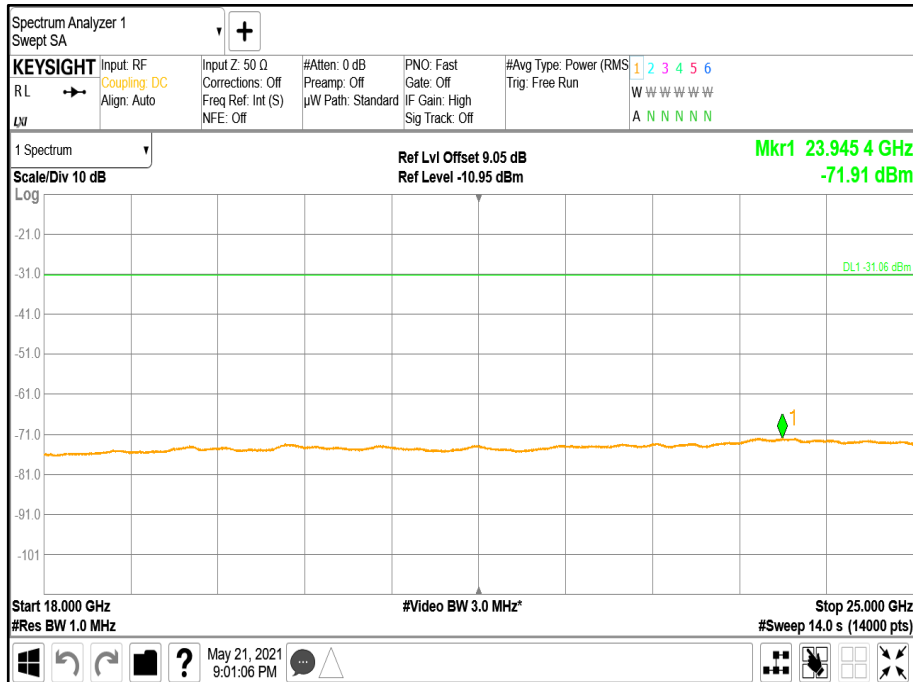


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position M - Band 3 - Range 18000 to 25000 MHz

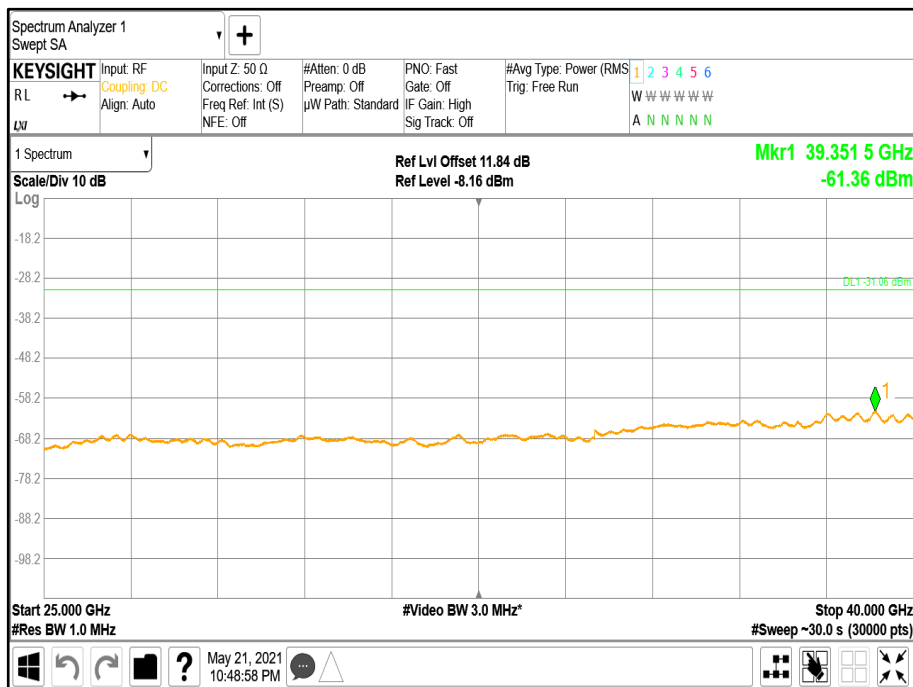




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position T - Band 3 - Range 18000 to 25000 MHz

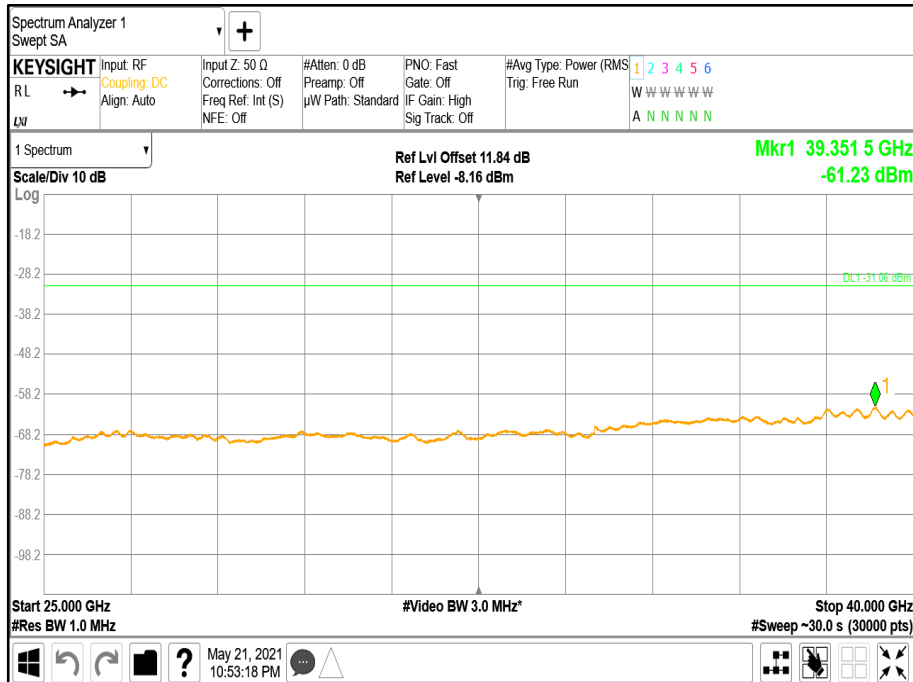


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position B - Band 4 - Range 25000 to 40000 MHz

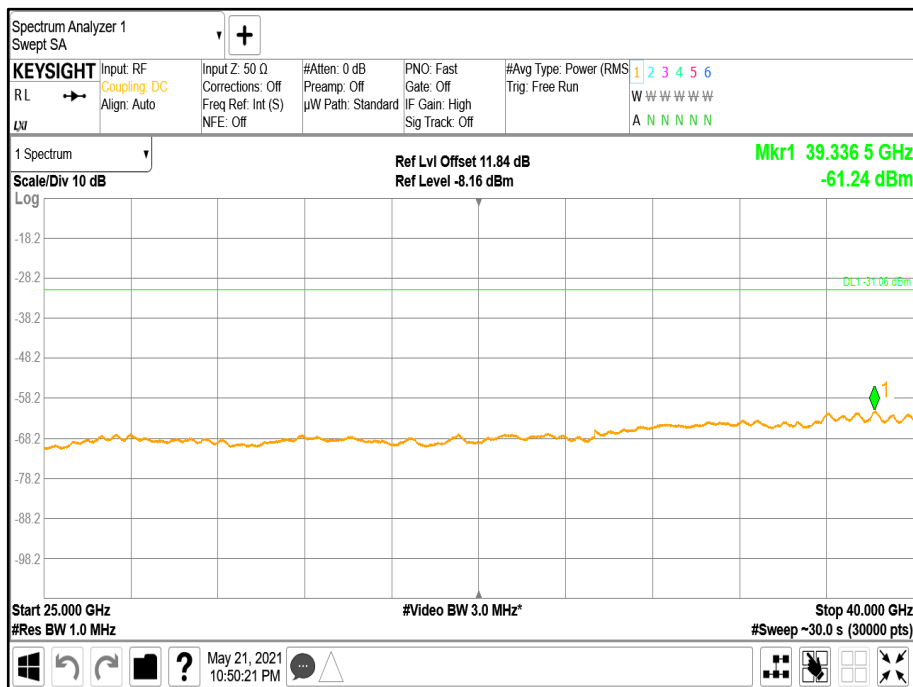




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position M - Band 4 - Range 25000 to 40000 MHz



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 20.00 MHz 30 kHz SCS - Channel Position T - Band 4 - Range 25000 to 40000 MHz

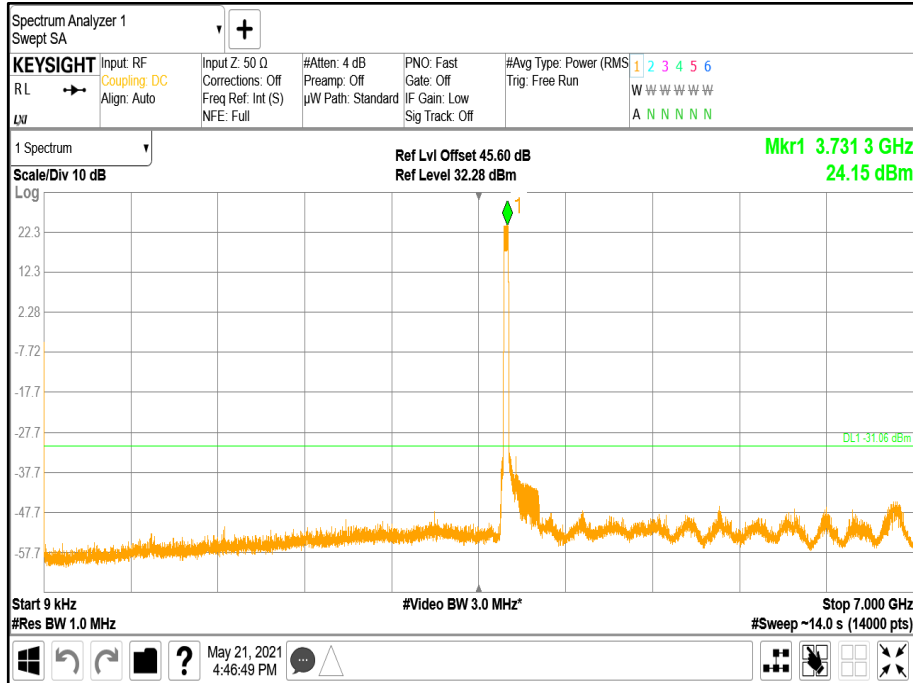


Configuration 2

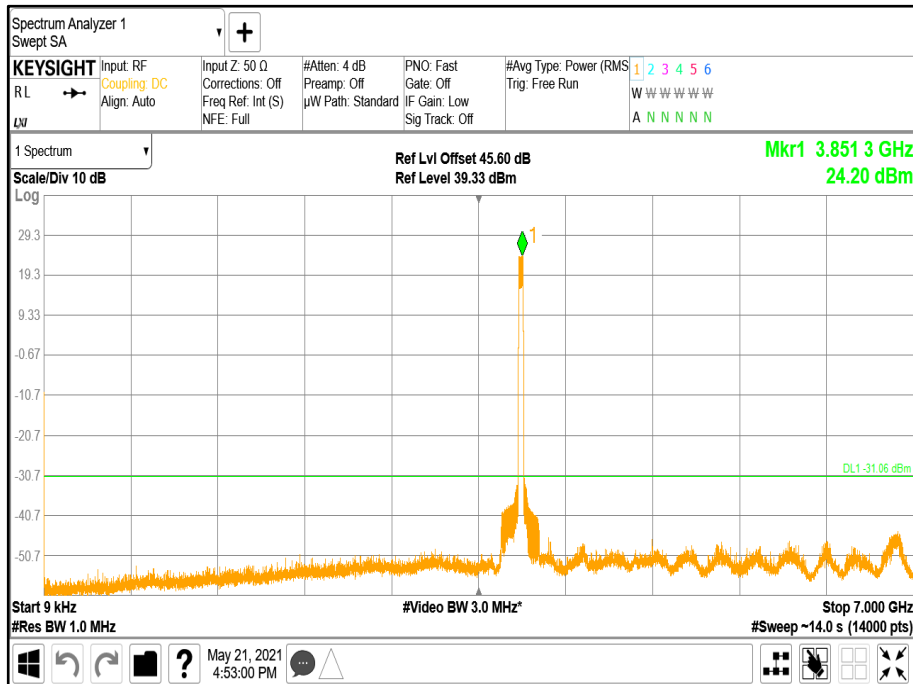
Maximum Output Power 37.00 dBm



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B - Band 1.00 - Range 0.009 to 7000 MHz

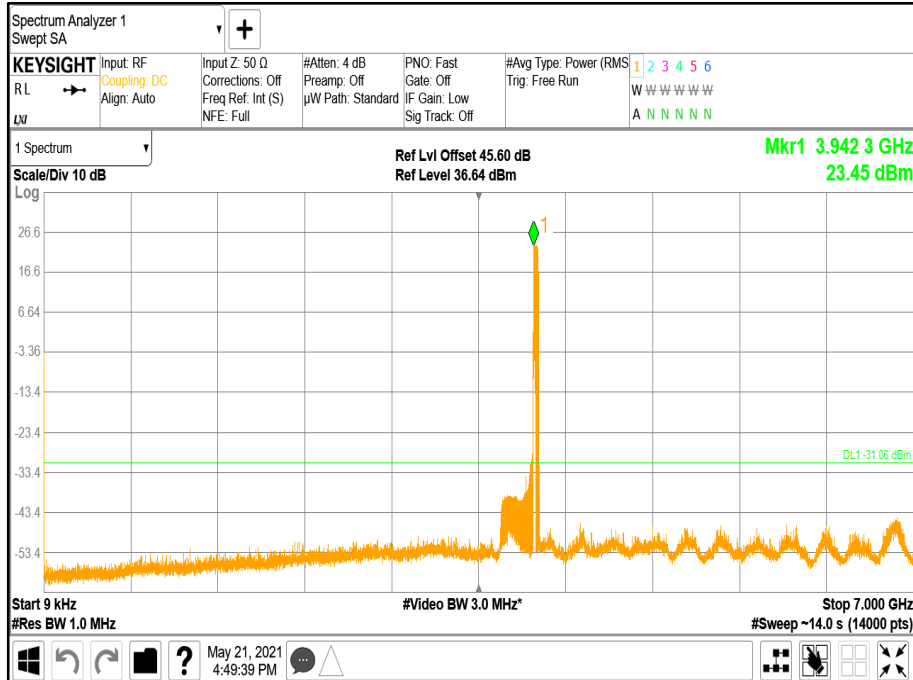


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position M - Band 1.00 - Range 0.009 to 7000 MHz

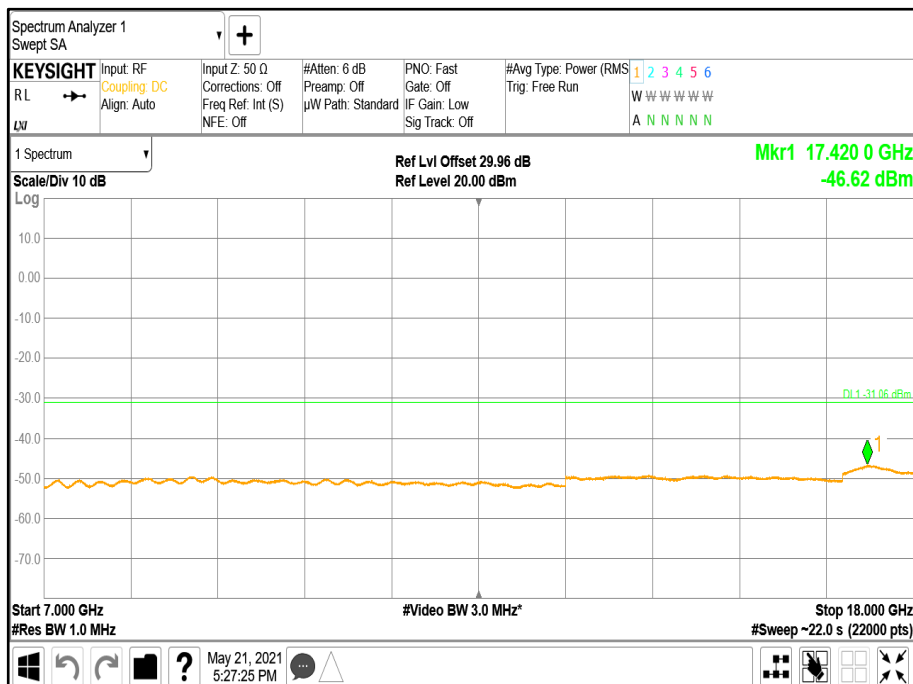




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T - Band 1.00 - Range 0.009 to 7000 MHz

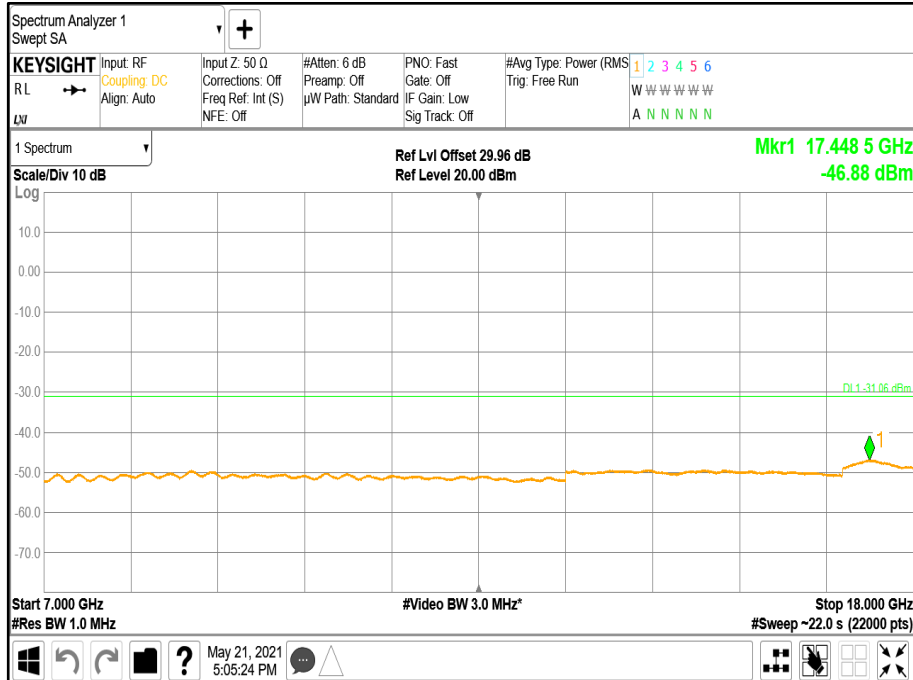


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B - Band 2 - Range 7000 to 18000 MHz

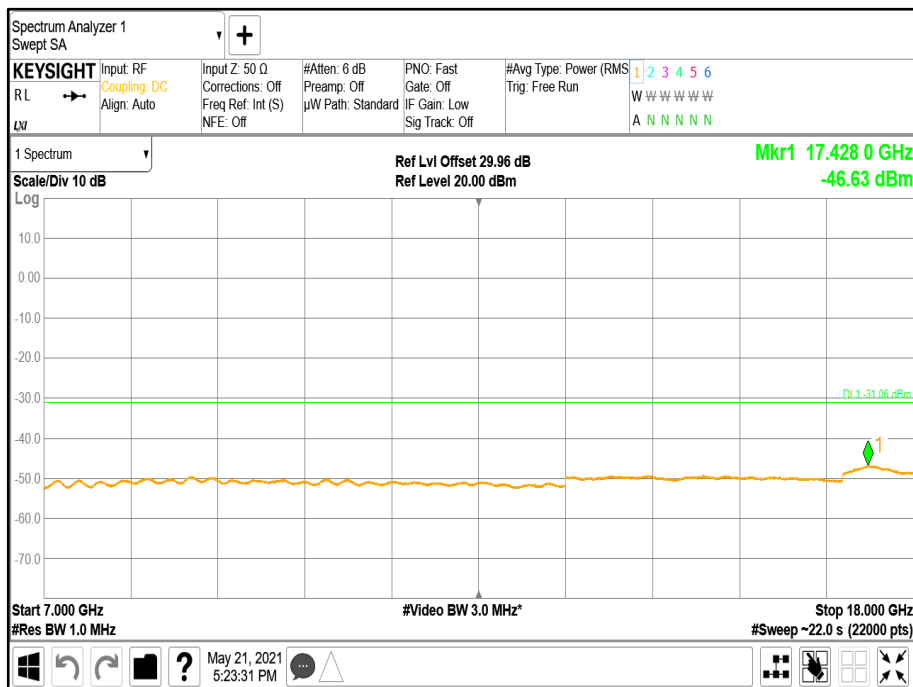




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position M - Band 2 - Range 7000 to 18000 MHz



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T - Band 2 - Range 7000 to 18000 MHz

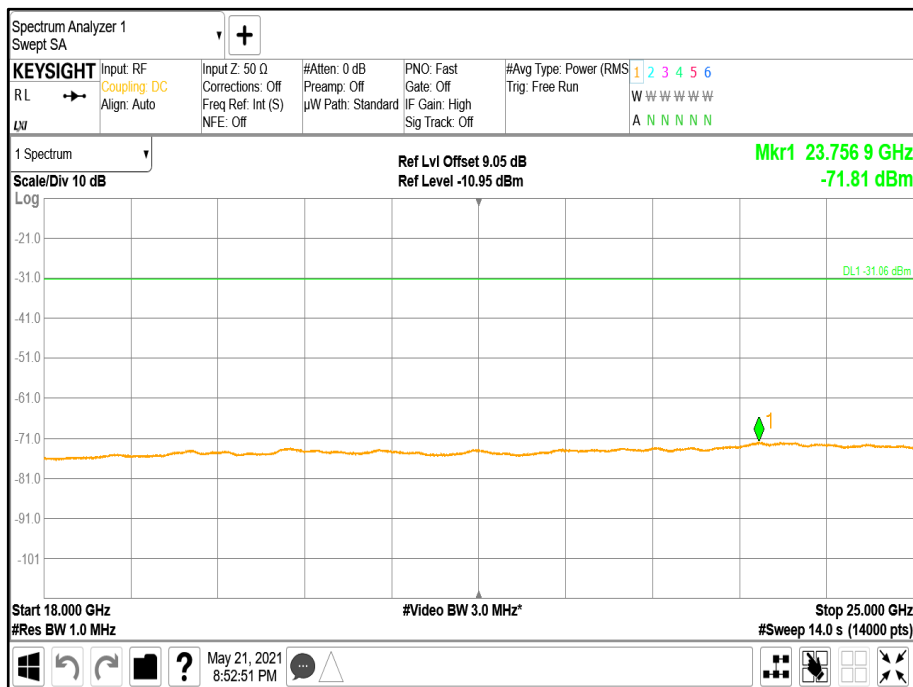




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B - Band 3 - Range 18000 to 25000 MHz

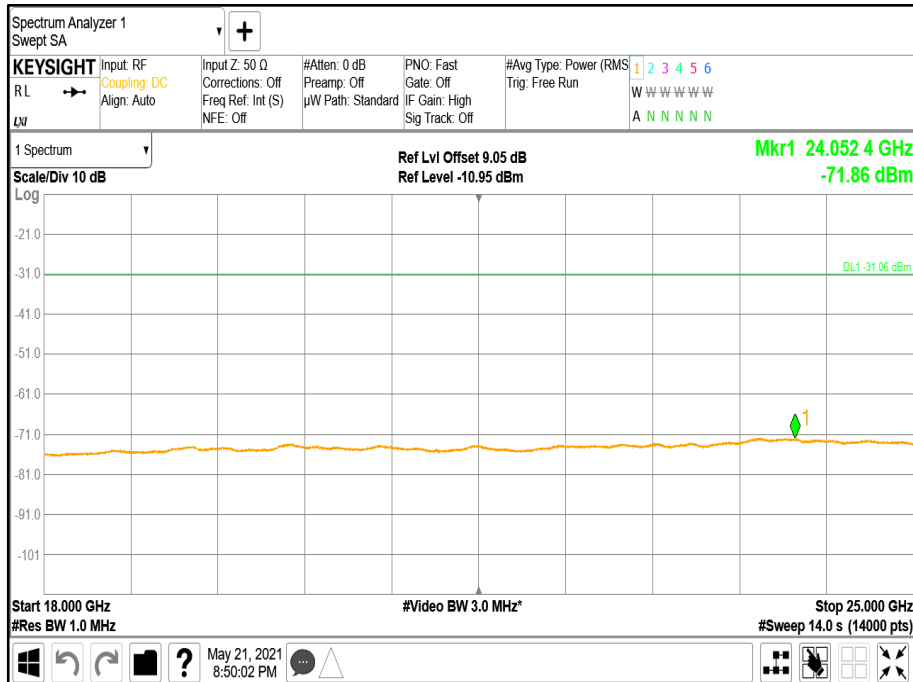


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position M - Band 3 - Range 18000 to 25000 MHz

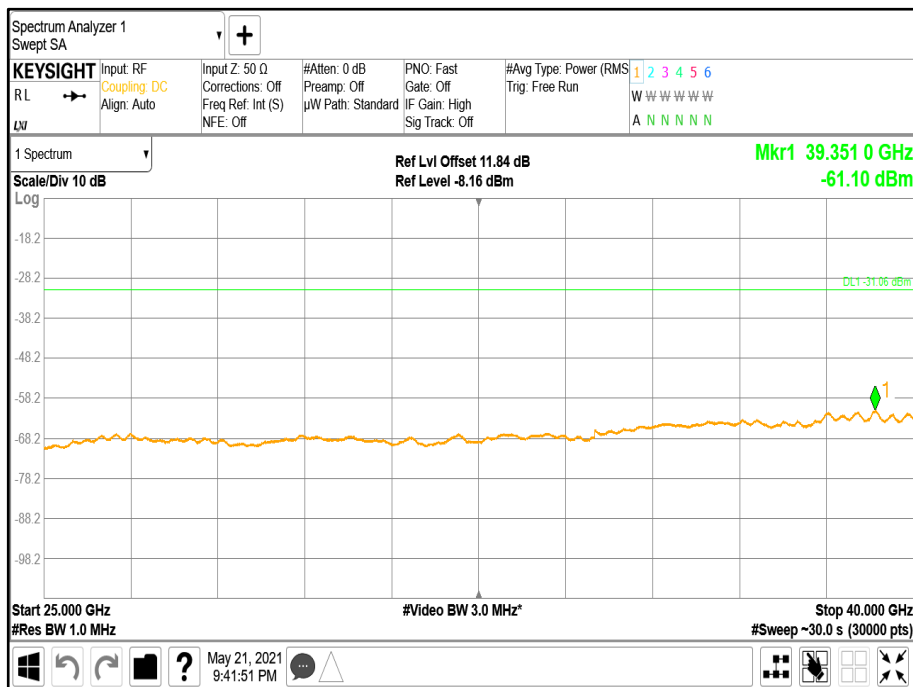




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T - Band 3 - Range 18000 to 25000 MHz

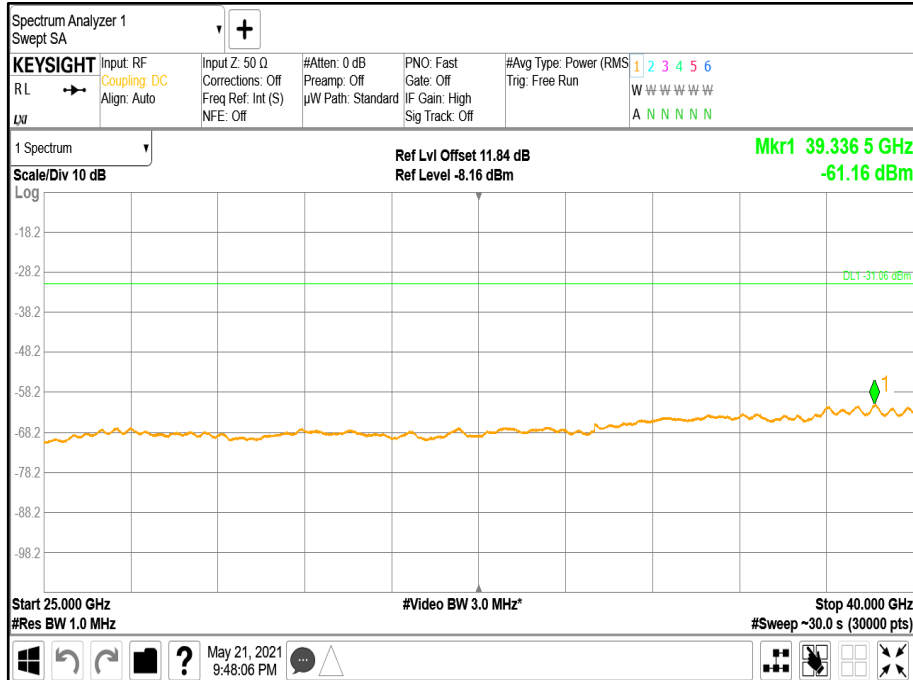


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B - Band 4 - Range 25000 to 40000 MHz

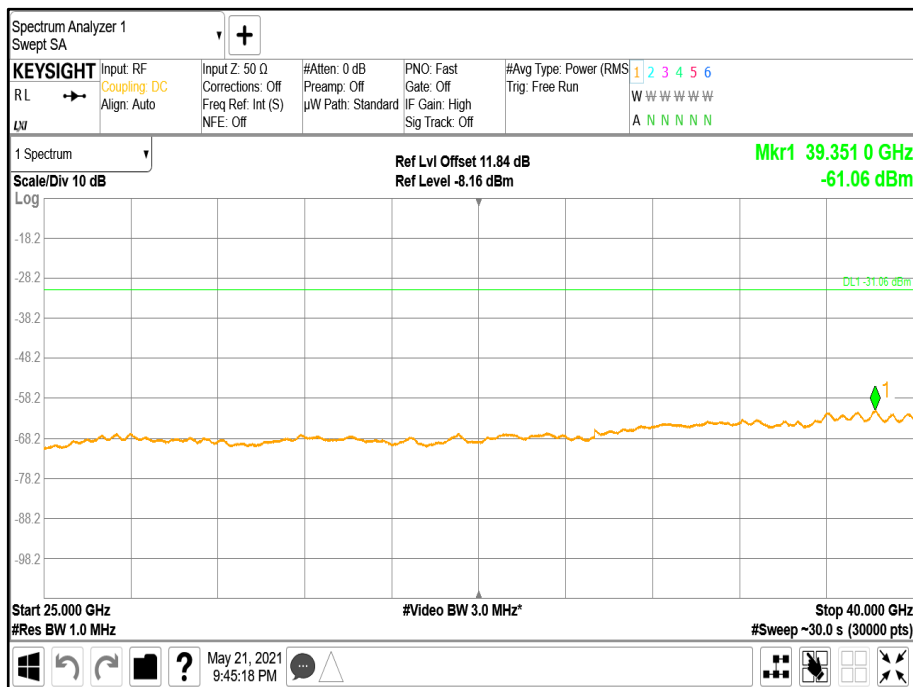




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position M - Band 4 - Range 25000 to 40000 MHz



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T - Band 4 - Range 25000 to 40000 MHz

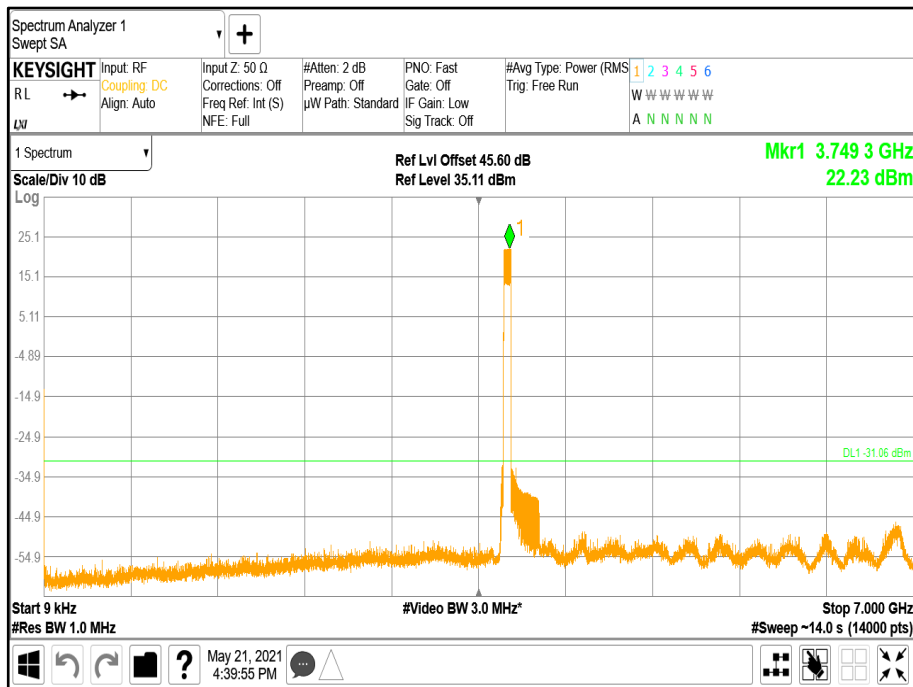




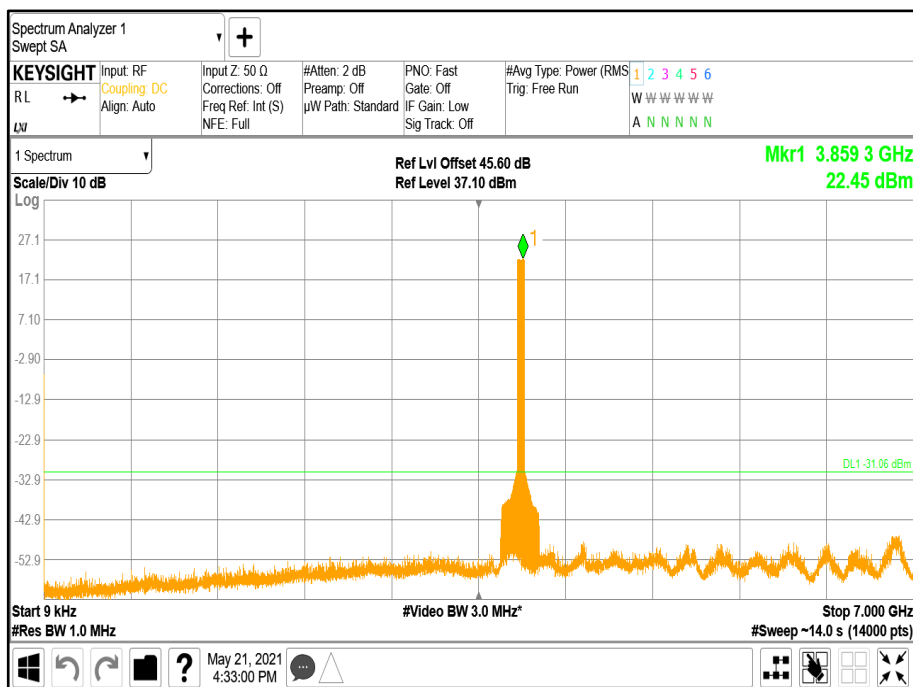
Configuration 3

Maximum Output Power 37.00 dBm

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position B - Band 1.00 - Range 0.009 to 7000 MHz

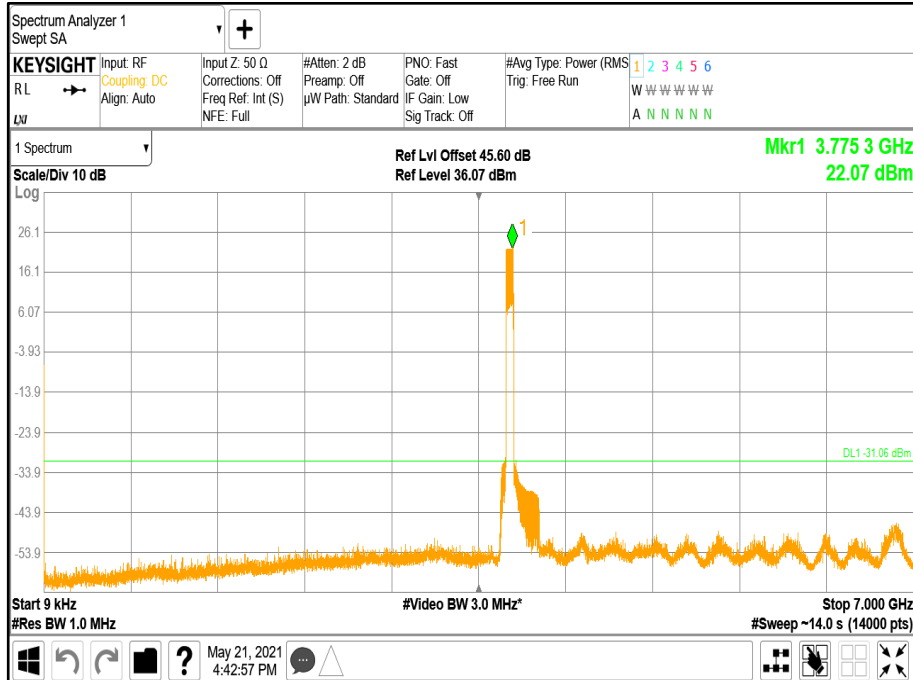


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position M - Band 1.00 - Range 0.009 to 7000 MHz

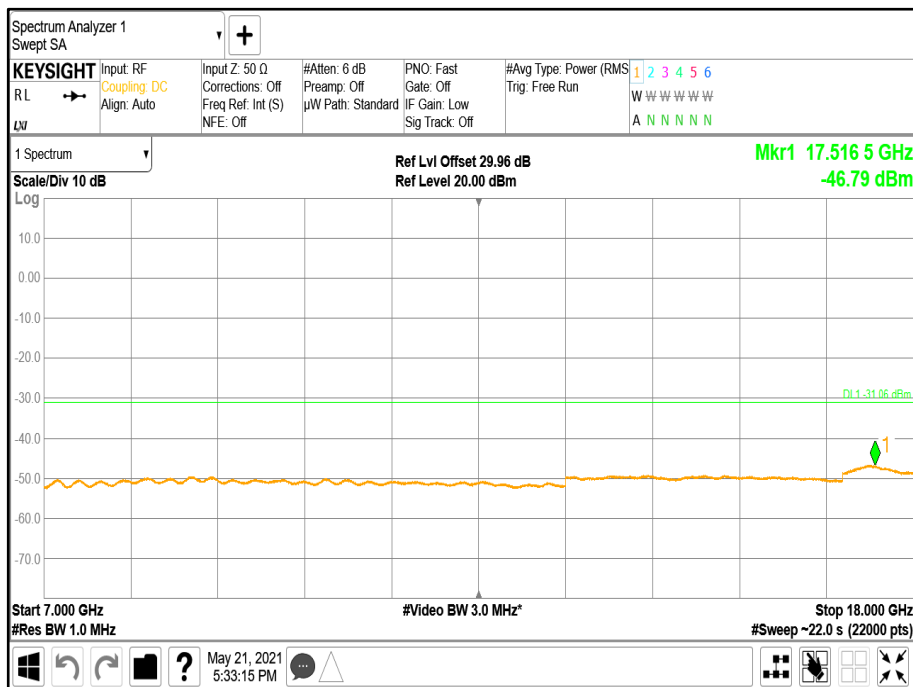




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position T - Band 1.00 - Range 0.009 to 7000 MHz

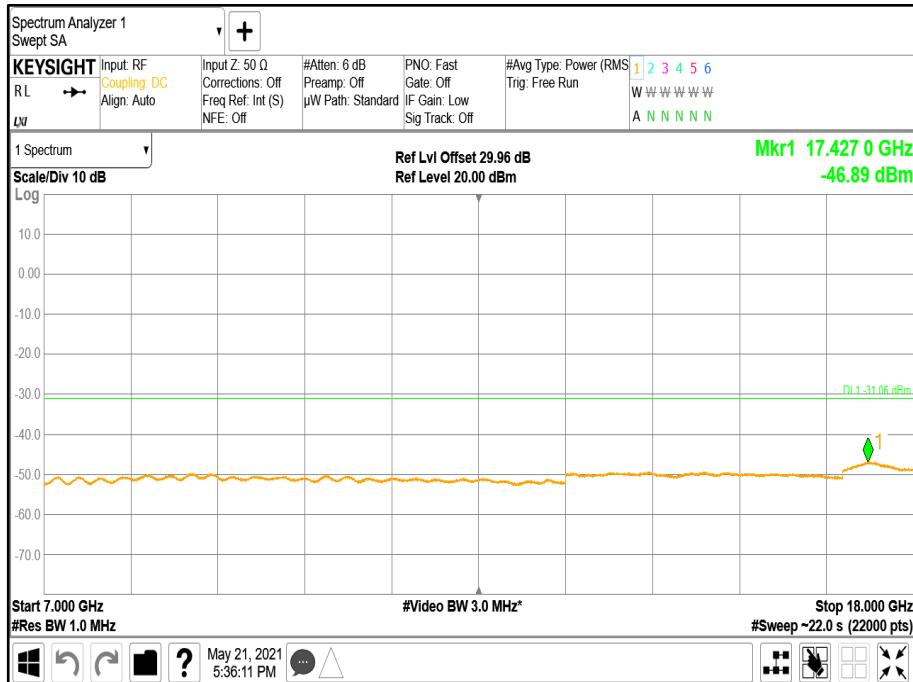


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position B - Band 2 - Range 7000 to 18000 MHz

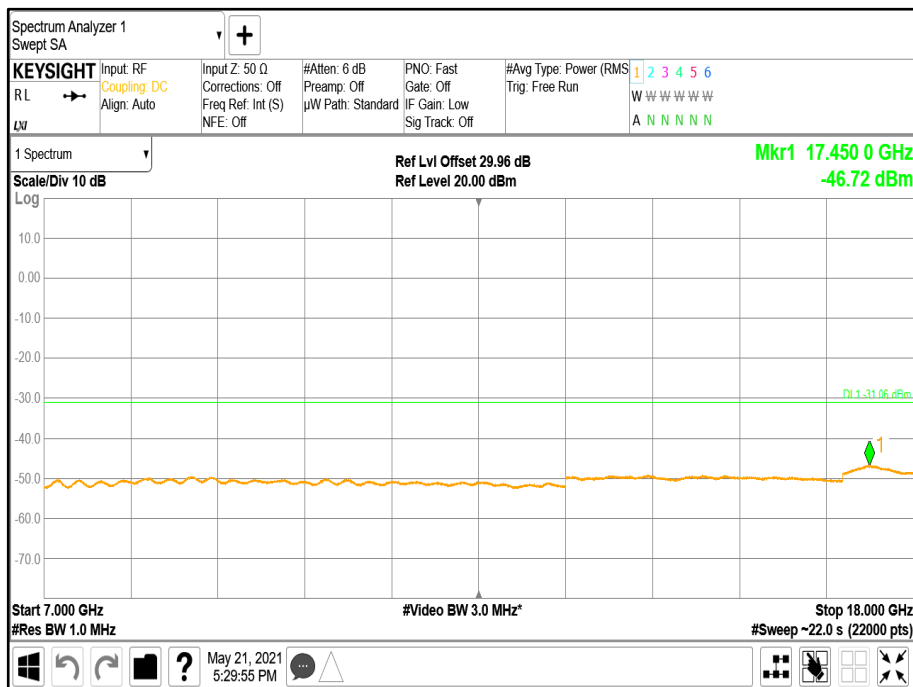




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position M - Band 2 - Range 7000 to 18000 MHz

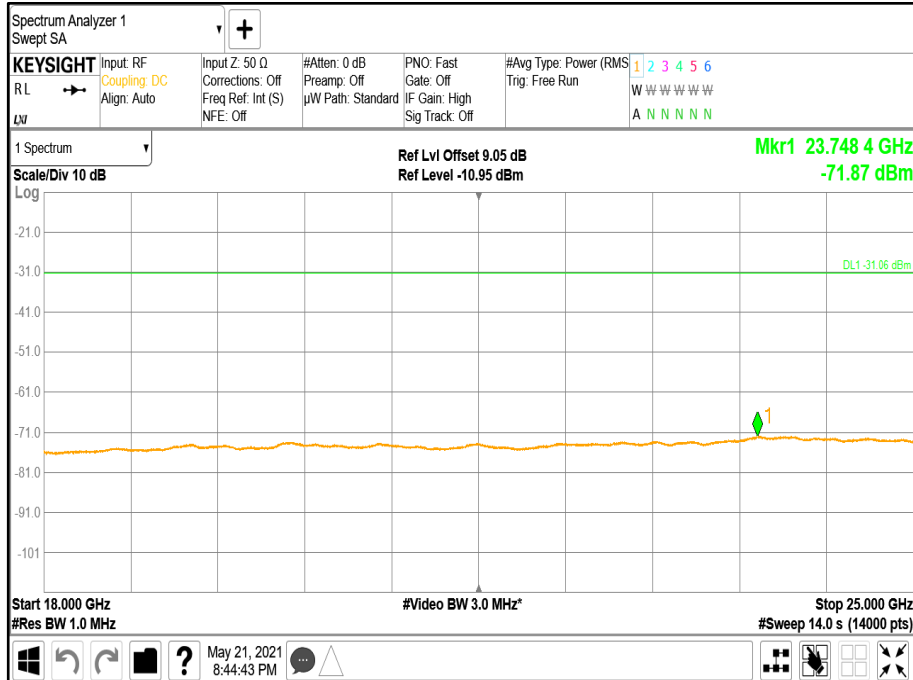


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position T - Band 2 - Range 7000 to 18000 MHz

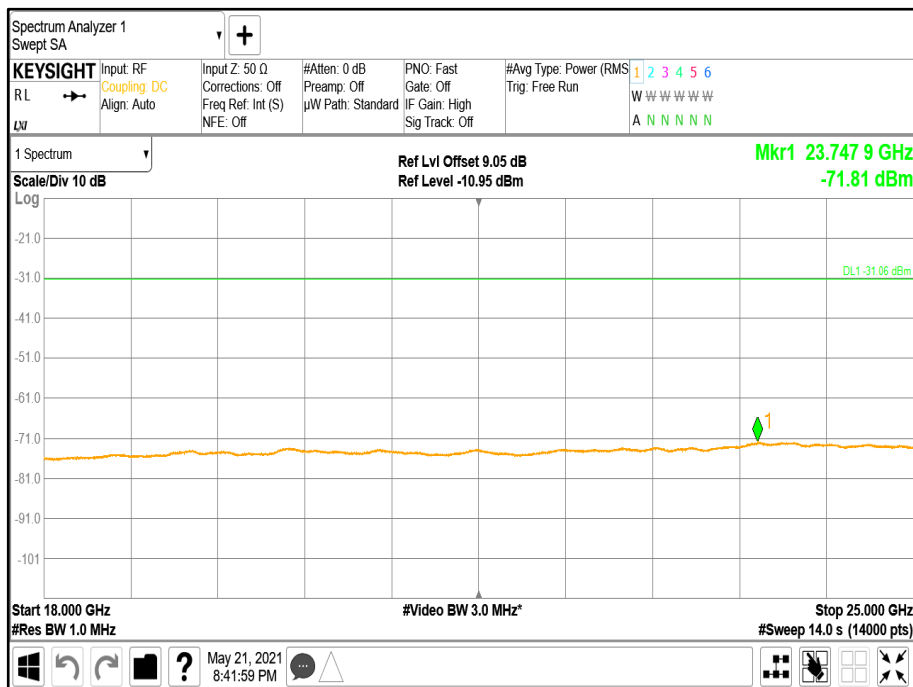




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position B - Band 3 - Range 18000 to 25000 MHz

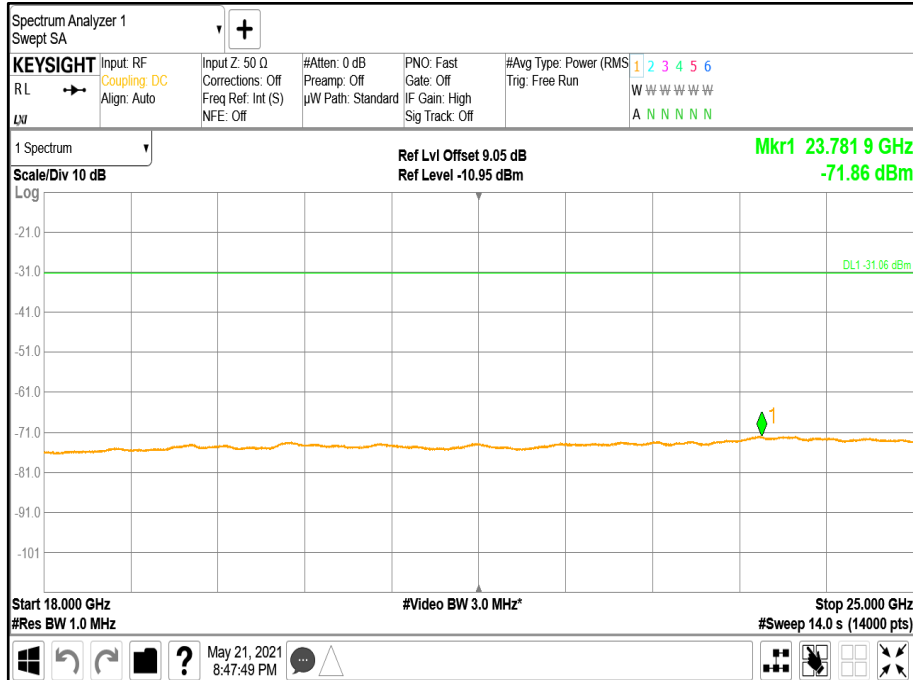


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position M - Band 3 - Range 18000 to 25000 MHz

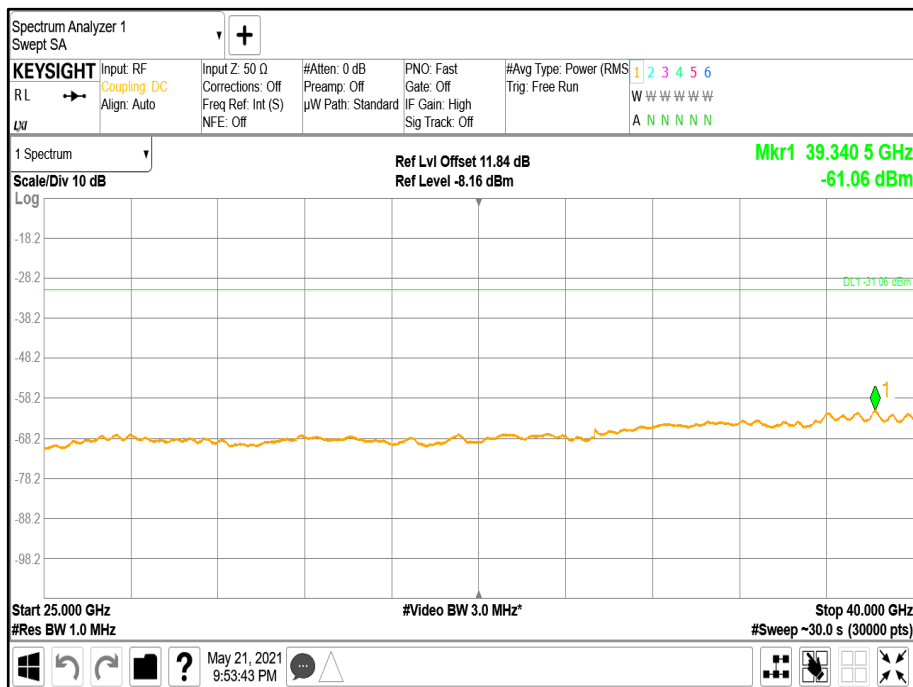




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position T - Band 3 - Range 18000 to 25000 MHz

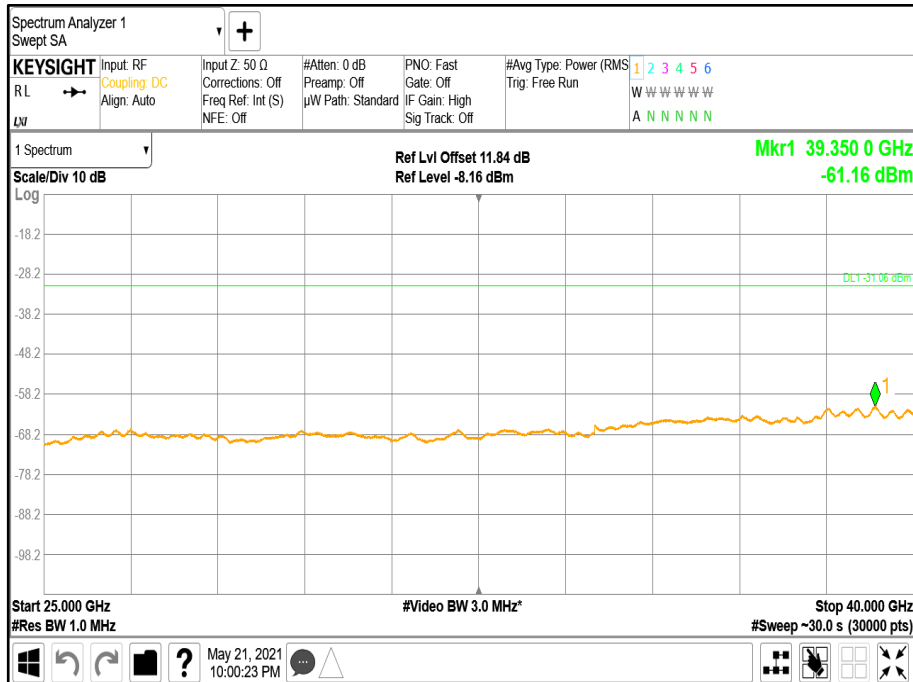


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position B - Band 4 - Range 25000 to 40000 MHz

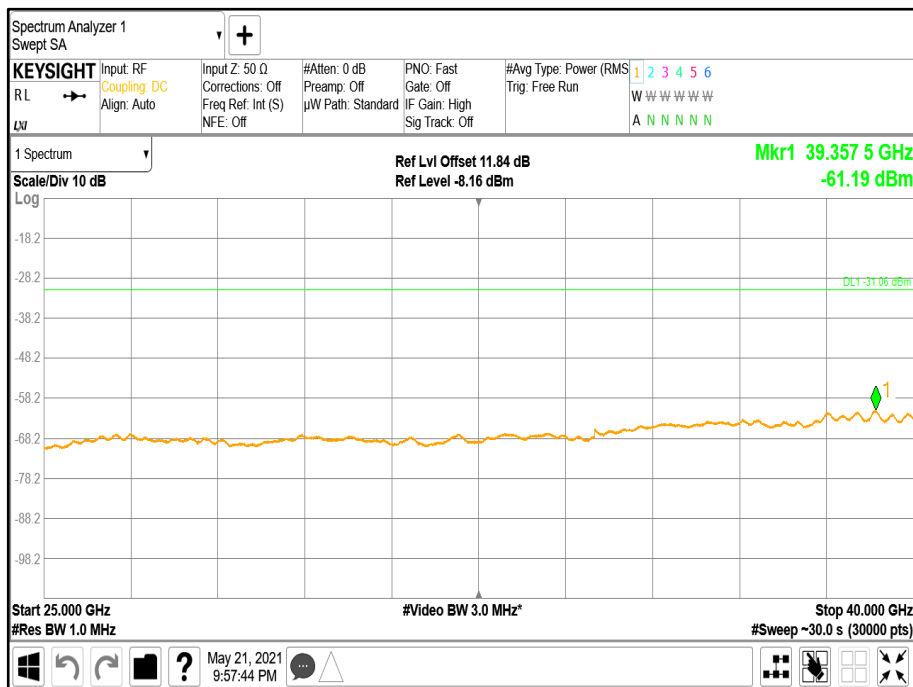




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position M - Band 4 - Range 25000 to 40000 MHz



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position T - Band 4 - Range 25000 to 40000 MHz

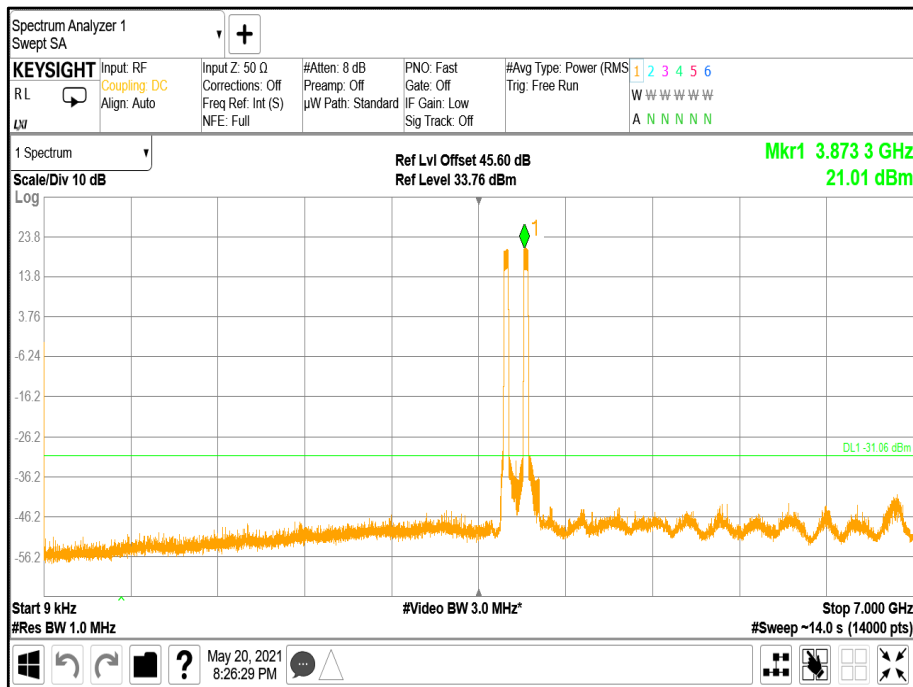




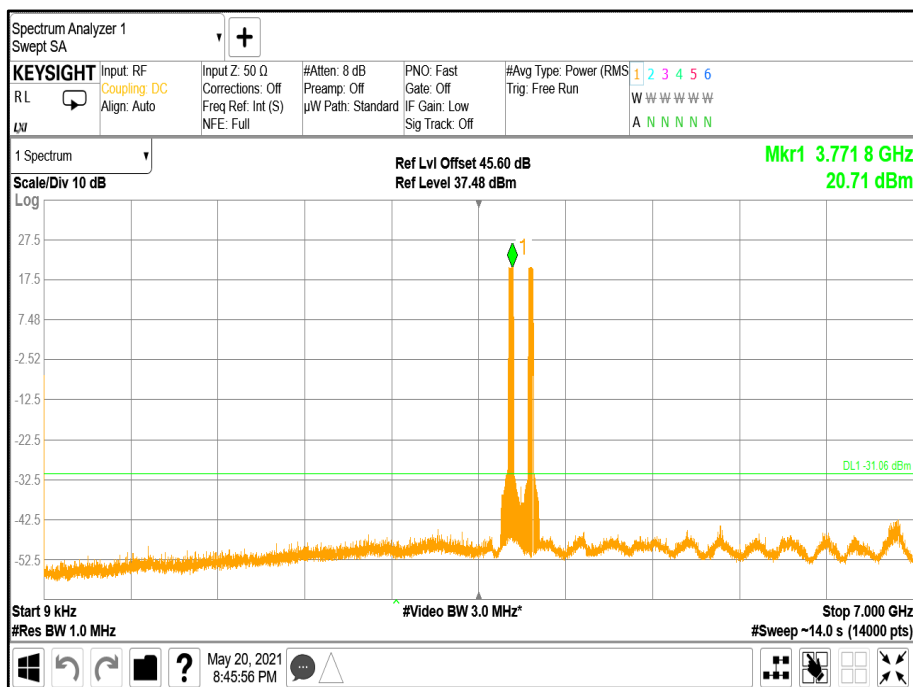
Configuration 4

Maximum Output Power 34.00 dBm

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B - Band 1.00 - Range 0.009 to 7000 MHz

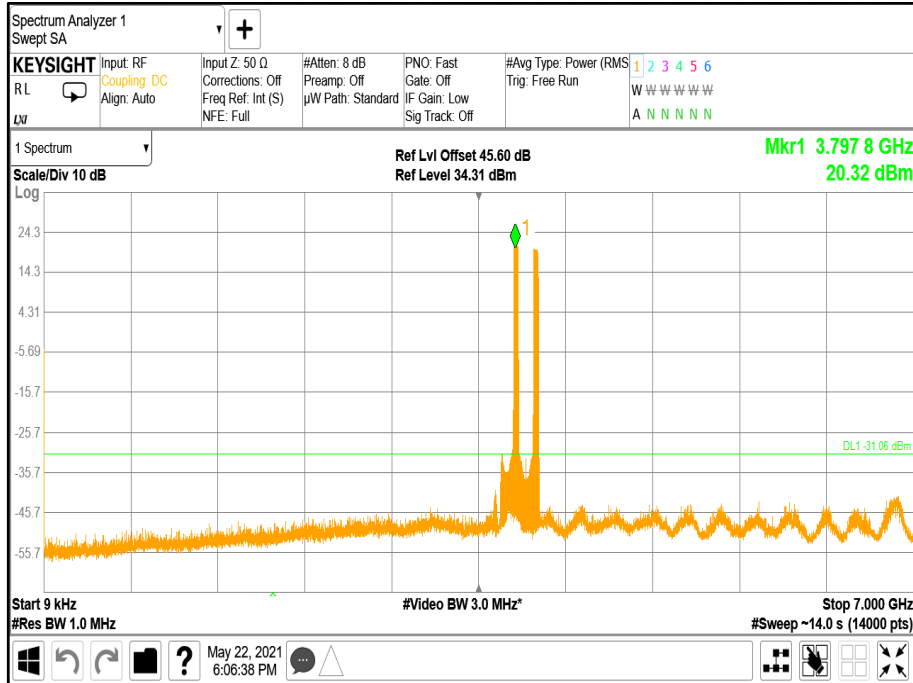


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position M - Band 1.00 - Range 0.009 to 7000 MHz

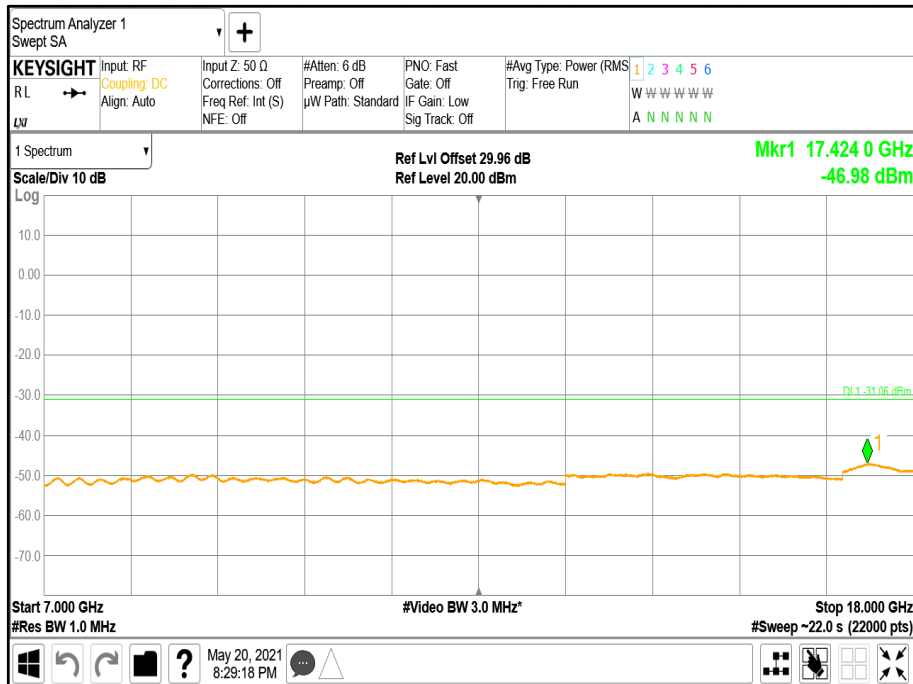




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T - Band 1.00 - Range 0.009 to 7000 MHz

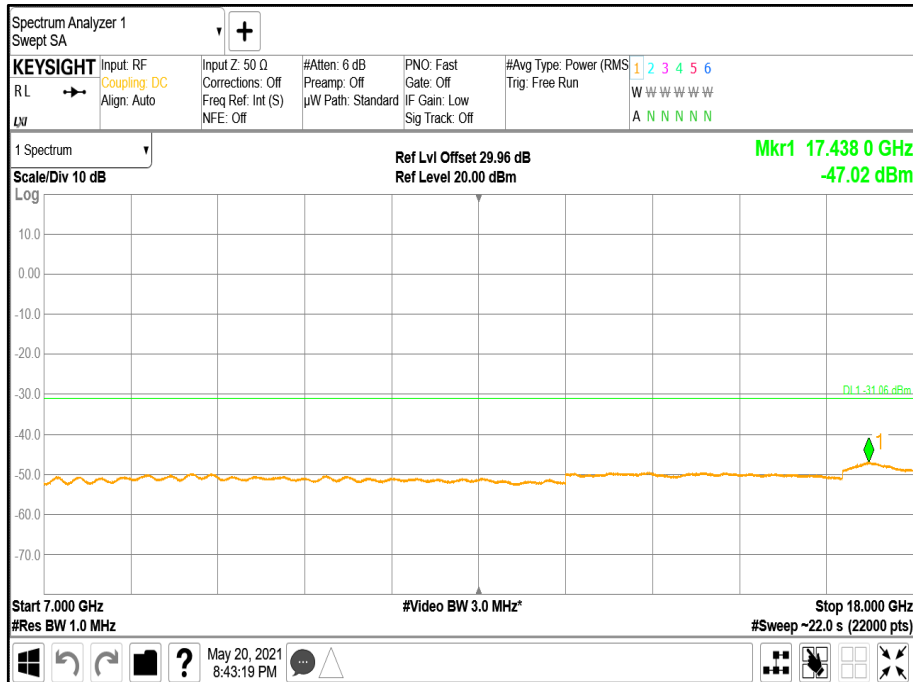


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B - Band 2 - Range 7000 to 18000 MHz

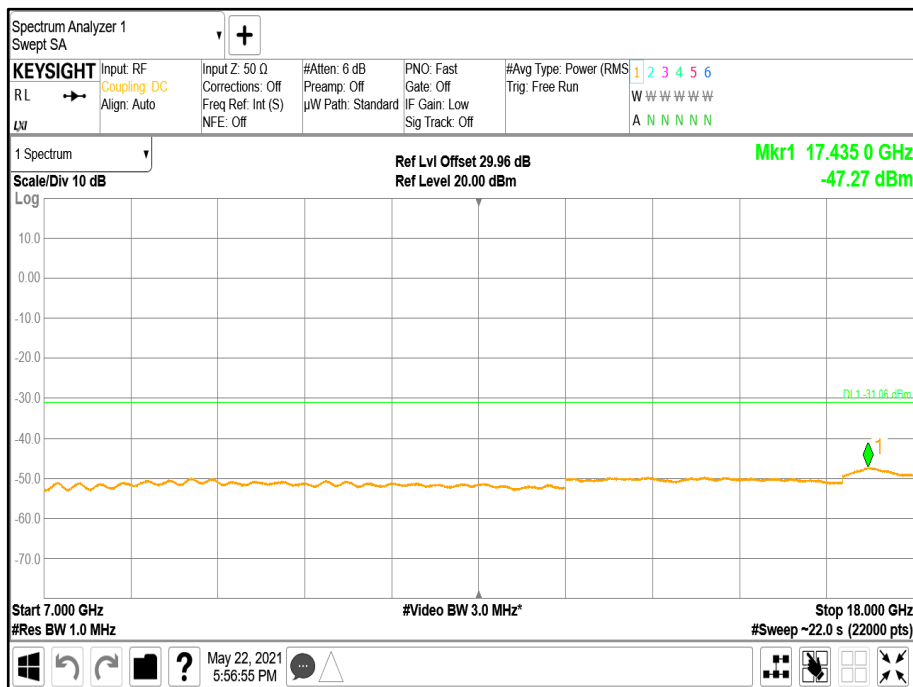




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position M - Band 2 - Range 7000 to 18000 MHz

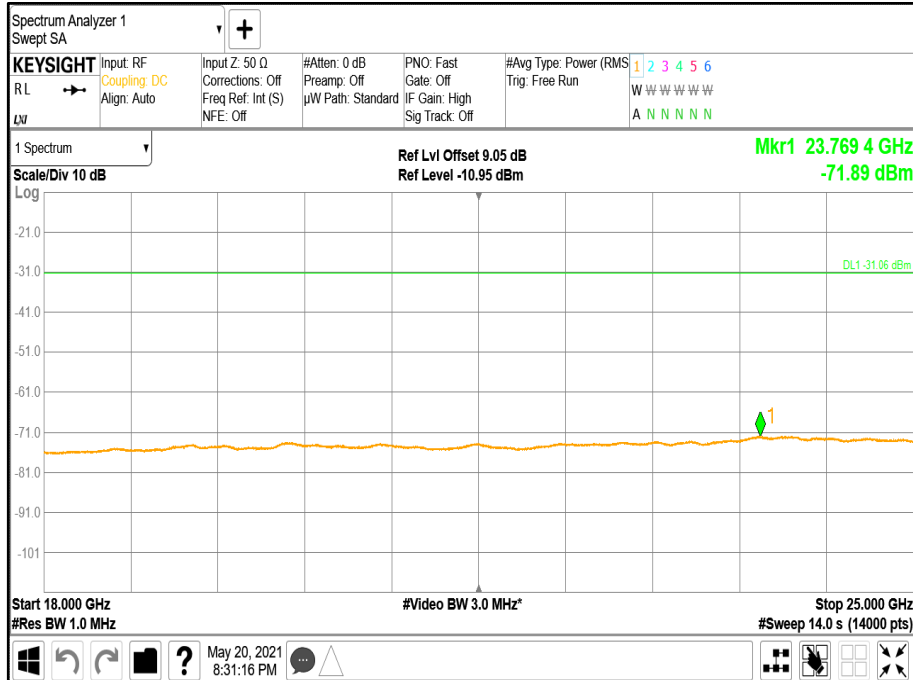


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T - Band 2 - Range 7000 to 18000 MHz

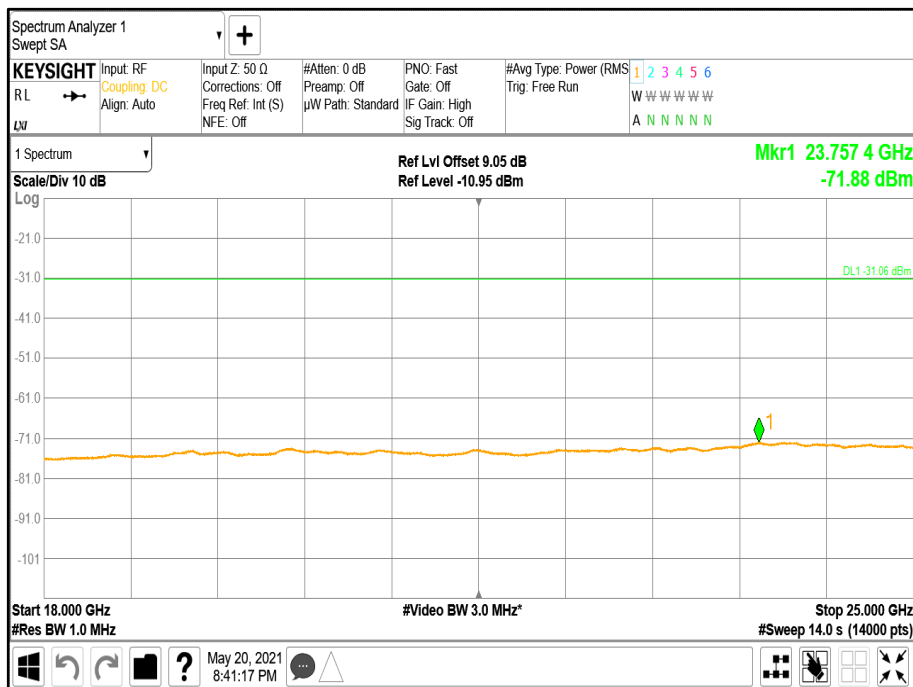




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B - Band 3 - Range 18000 to 25000 MHz

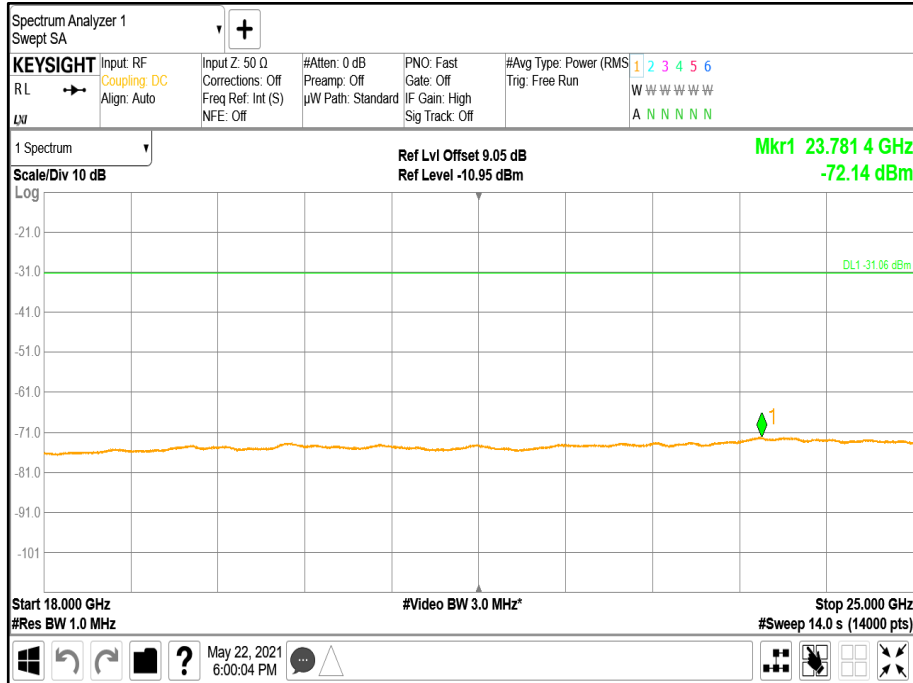


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position M - Band 3 - Range 18000 to 25000 MHz

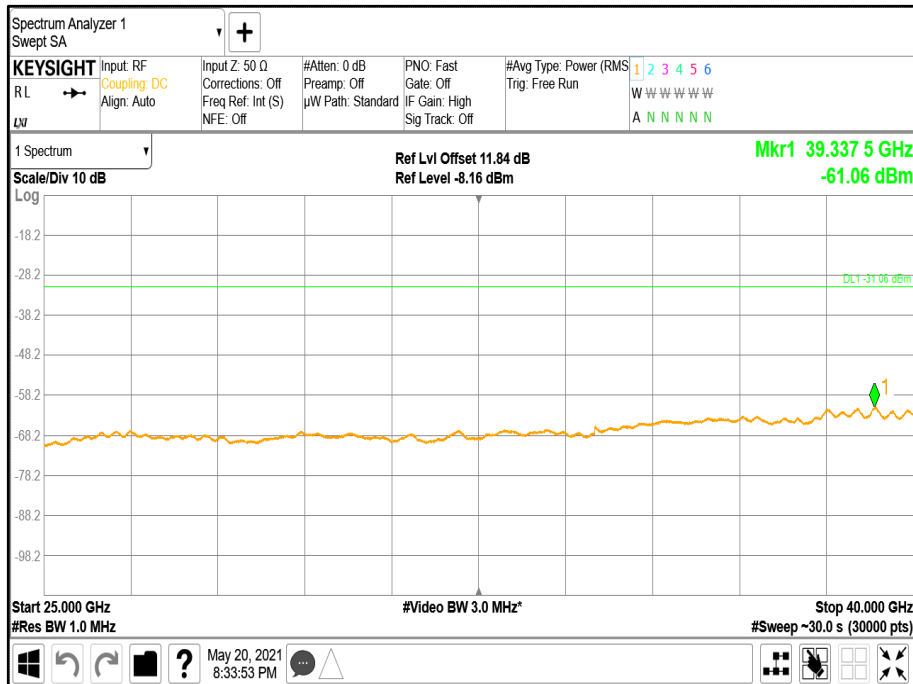




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T - Band 3 - Range 18000 to 25000 MHz

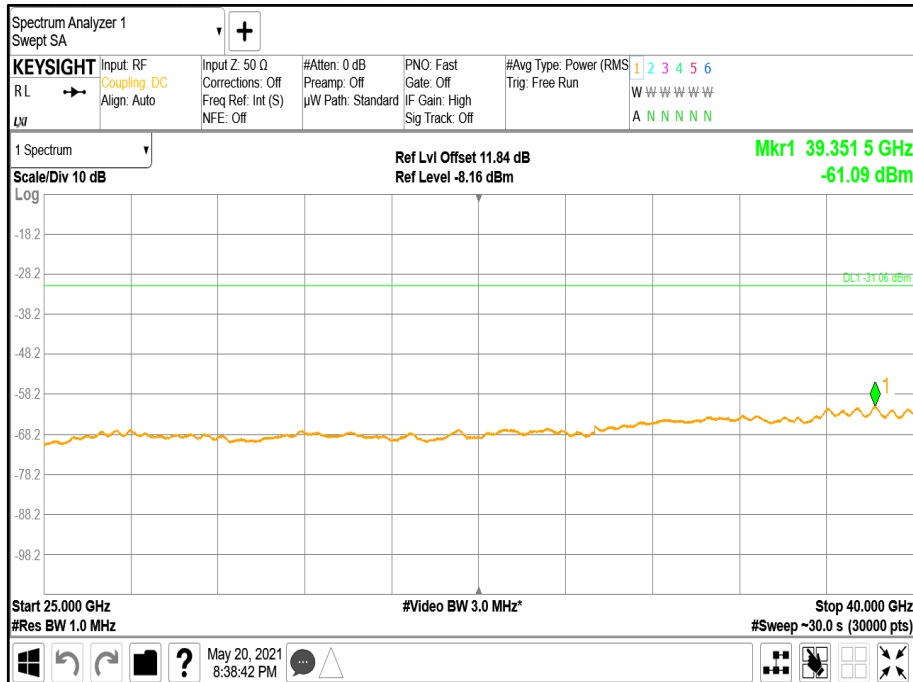


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B - Band 4 - Range 25000 to 40000 MHz

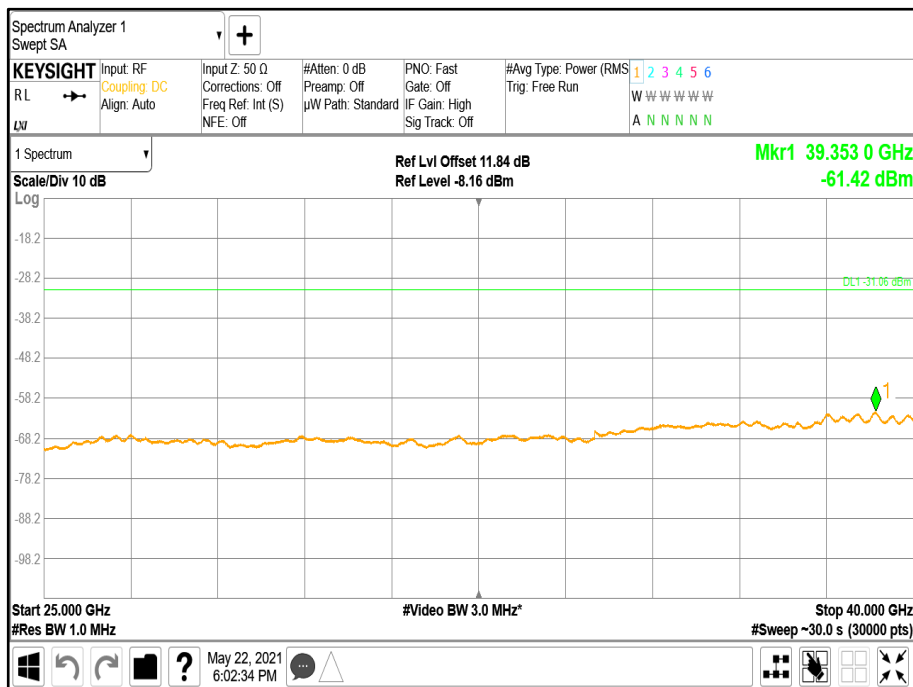




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position M - Band 4 - Range 25000 to 40000 MHz



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T - Band 4 - Range 25000 to 40000 MHz

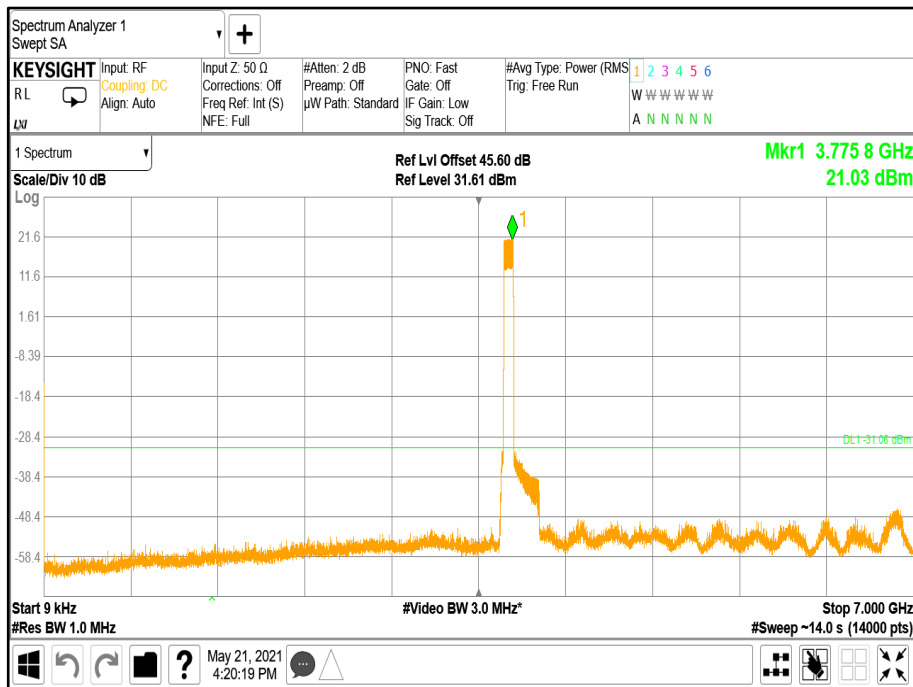




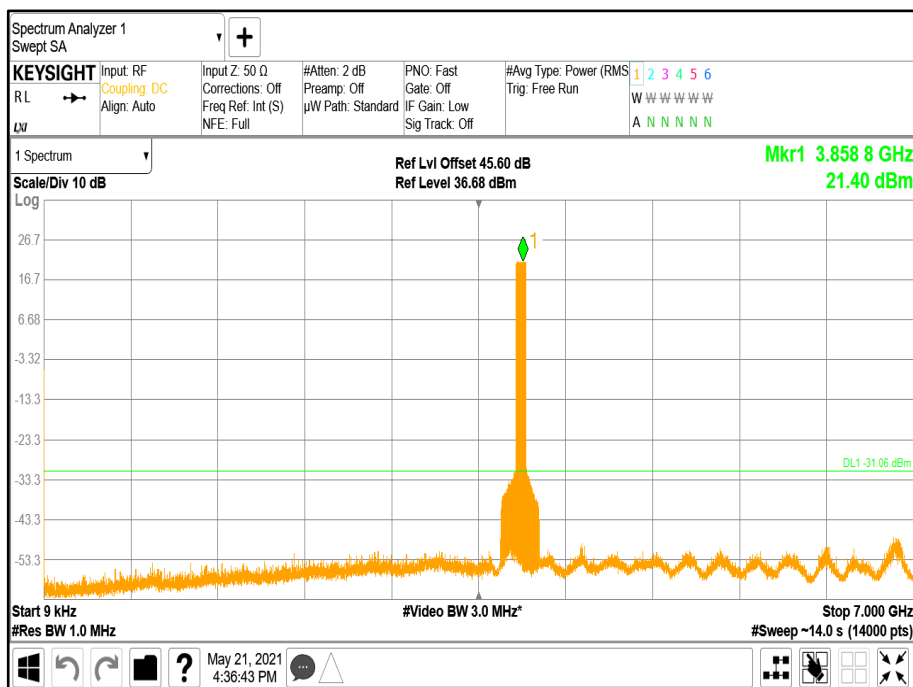
Configuration 5

Maximum Output Power 37.00 dBm

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B - Band 1.00 - Range 0.009 to 7000 MHz

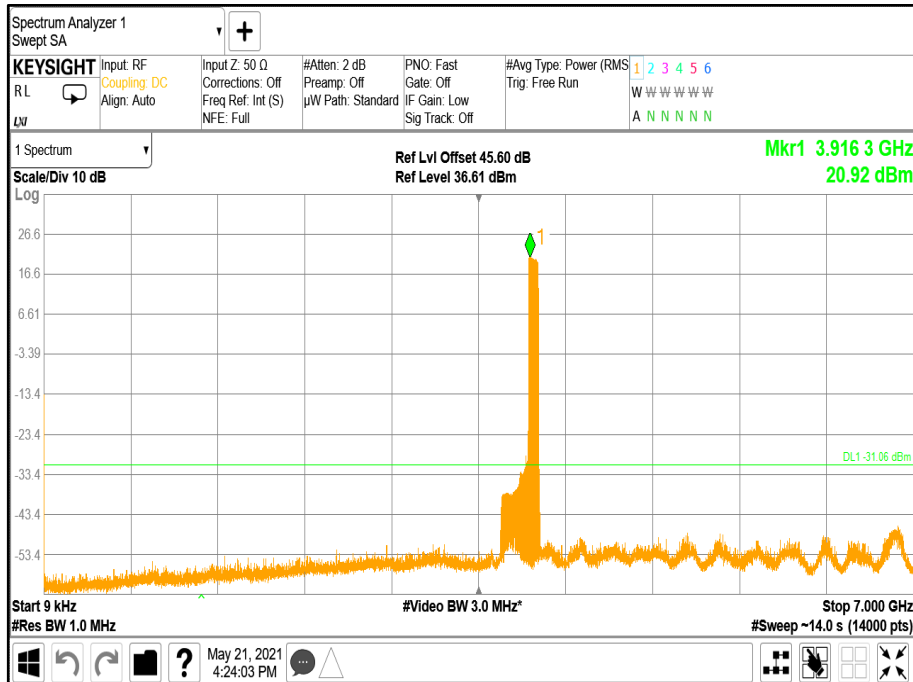


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position M - Band 1.00 - Range 0.009 to 7000 MHz

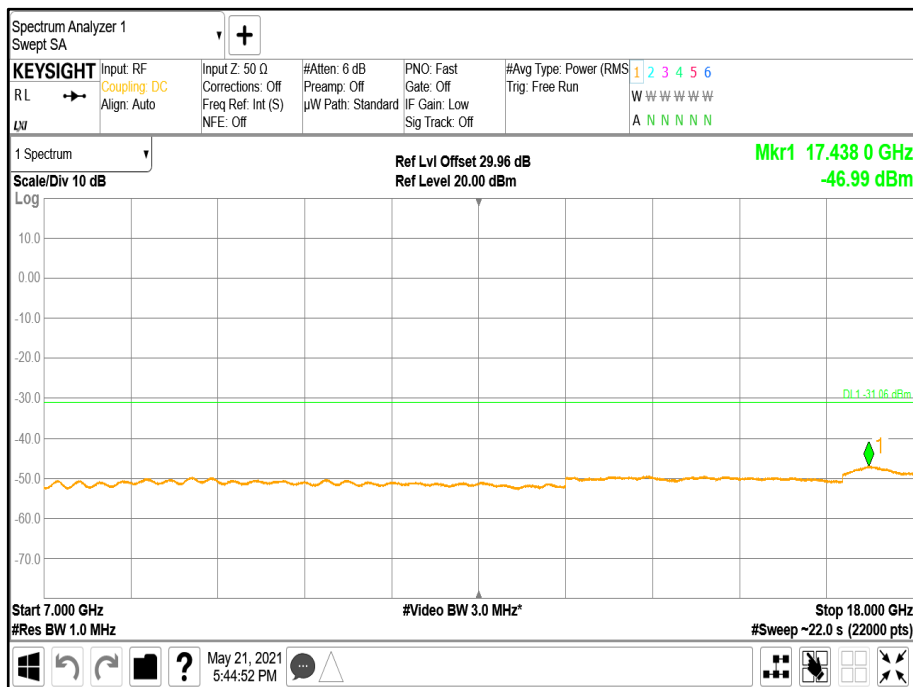




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T - Band 1.00 - Range 0.009 to 7000 MHz

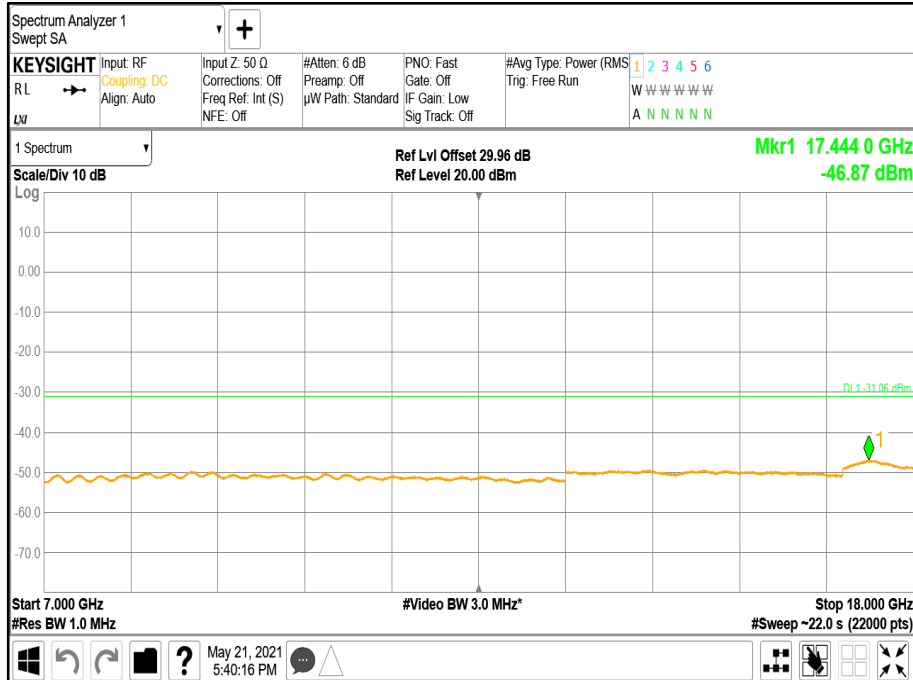


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B - Band 2 - Range 7000 to 18000 MHz

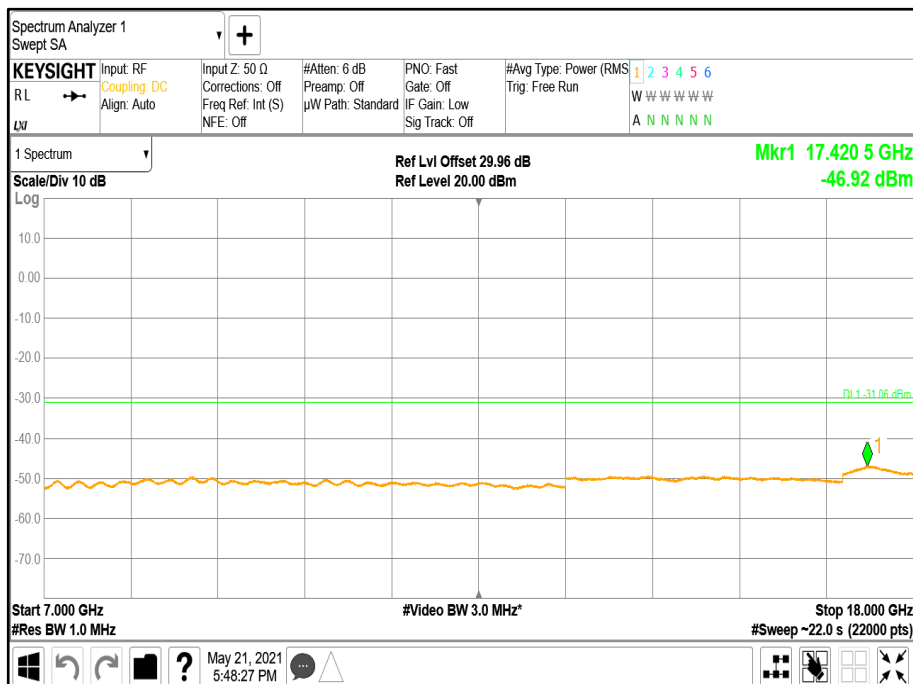




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position M - Band 2 - Range 7000 to 18000 MHz

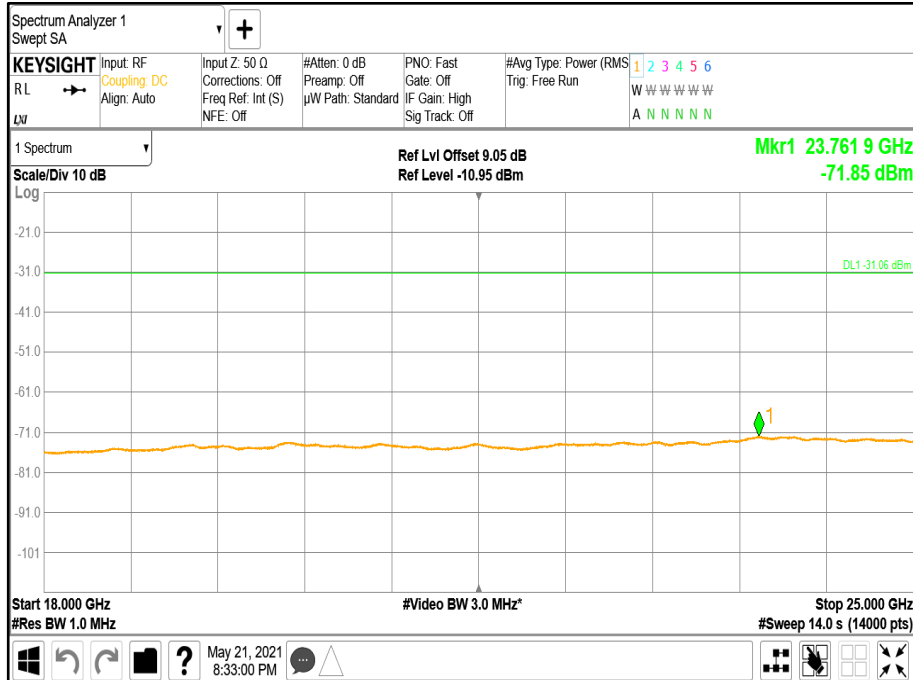


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T - Band 2 - Range 7000 to 18000 MHz

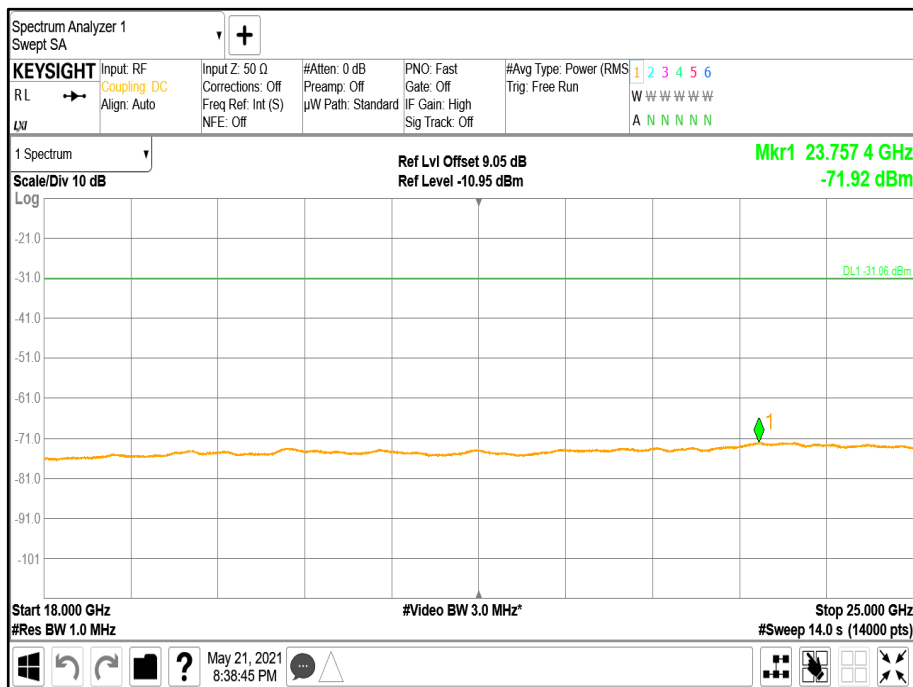




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B - Band 3 - Range 18000 to 25000 MHz

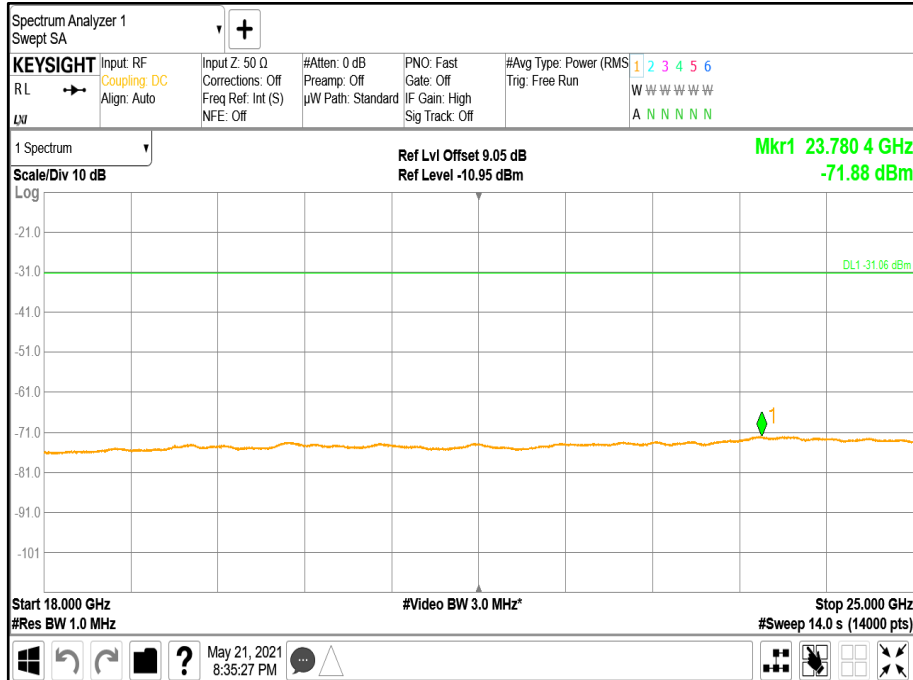


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position M - Band 3 - Range 18000 to 25000 MHz

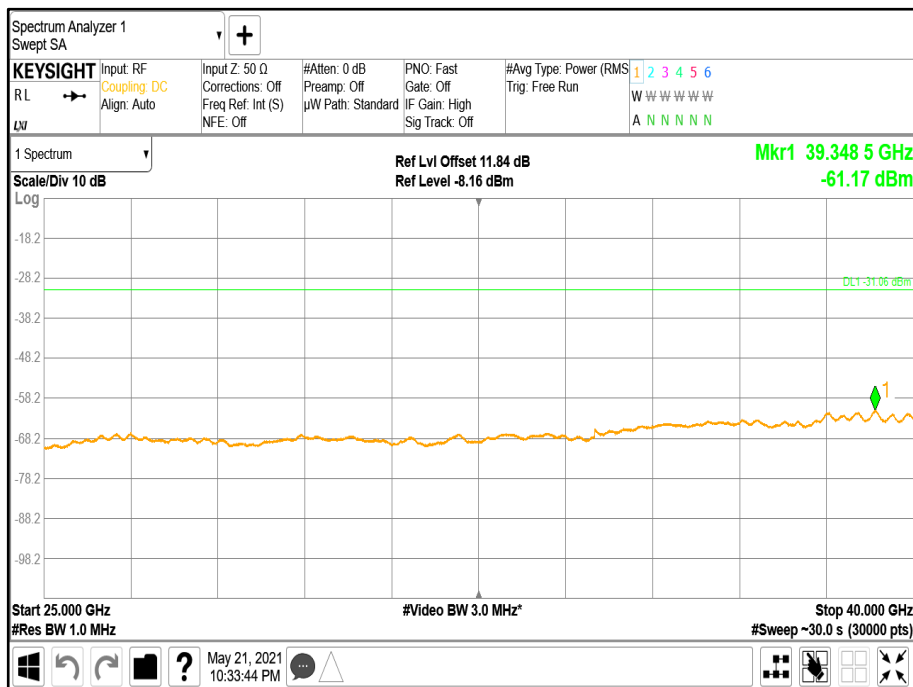




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T - Band 3 - Range 18000 to 25000 MHz

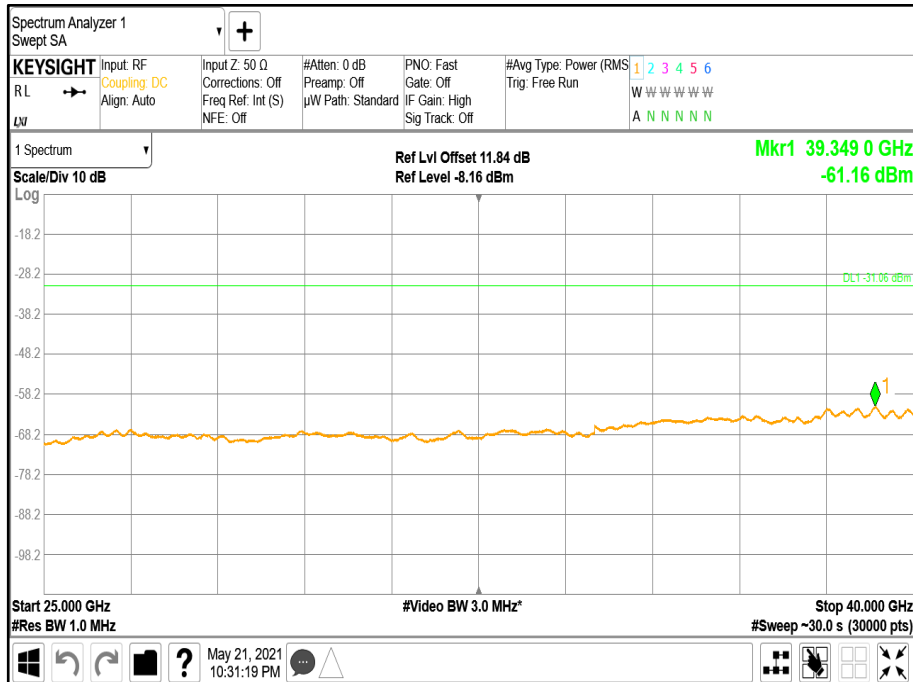


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B - Band 4 - Range 25000 to 40000 MHz

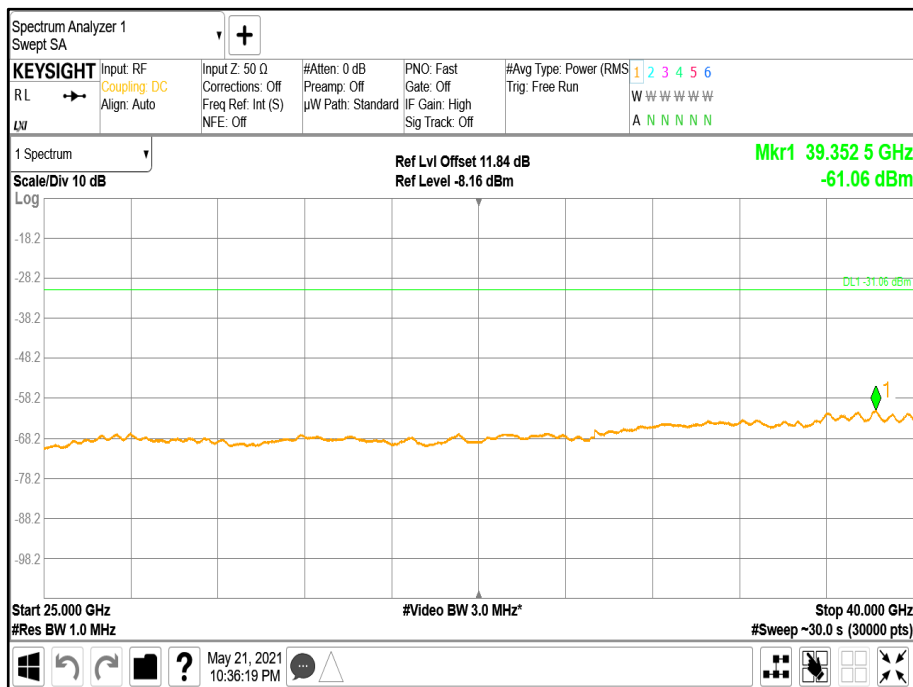




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position M - Band 4 - Range 25000 to 40000 MHz

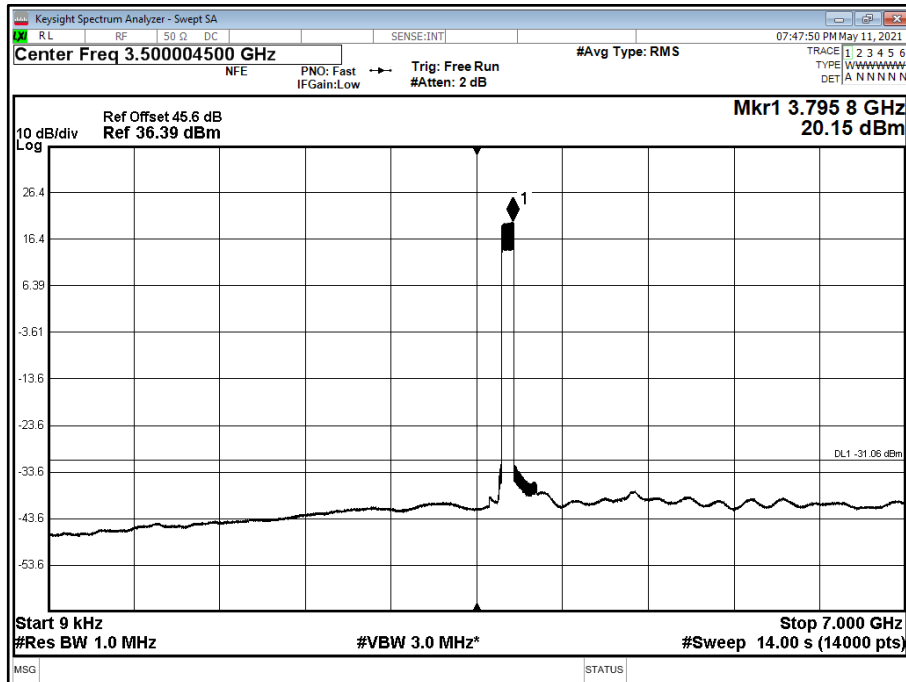


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T - Band 4 - Range 25000 to 40000 MHz

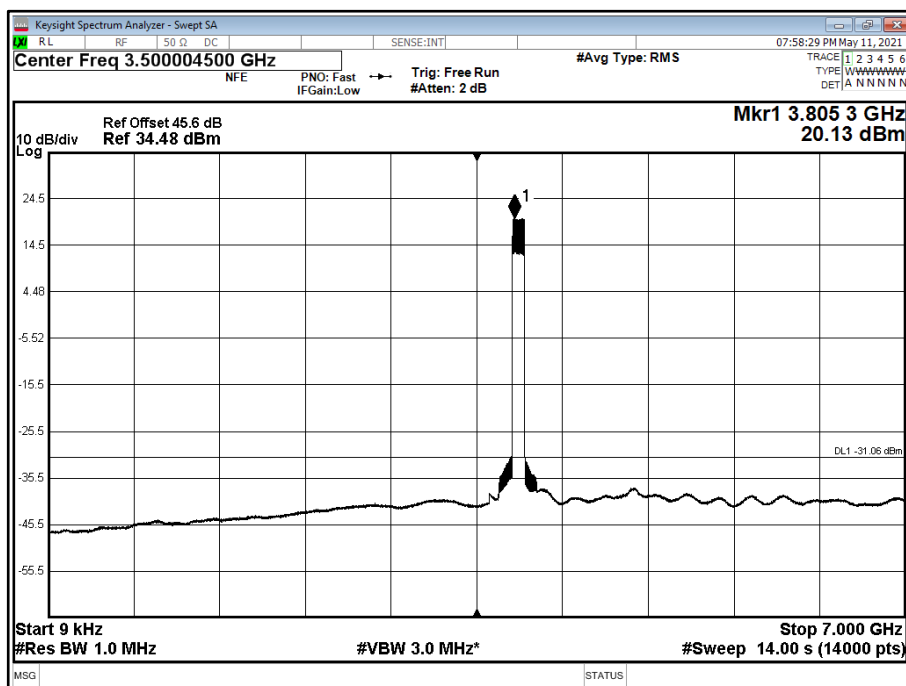




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position B - Band 1.00 - Range 0.009 to 7000 MHz

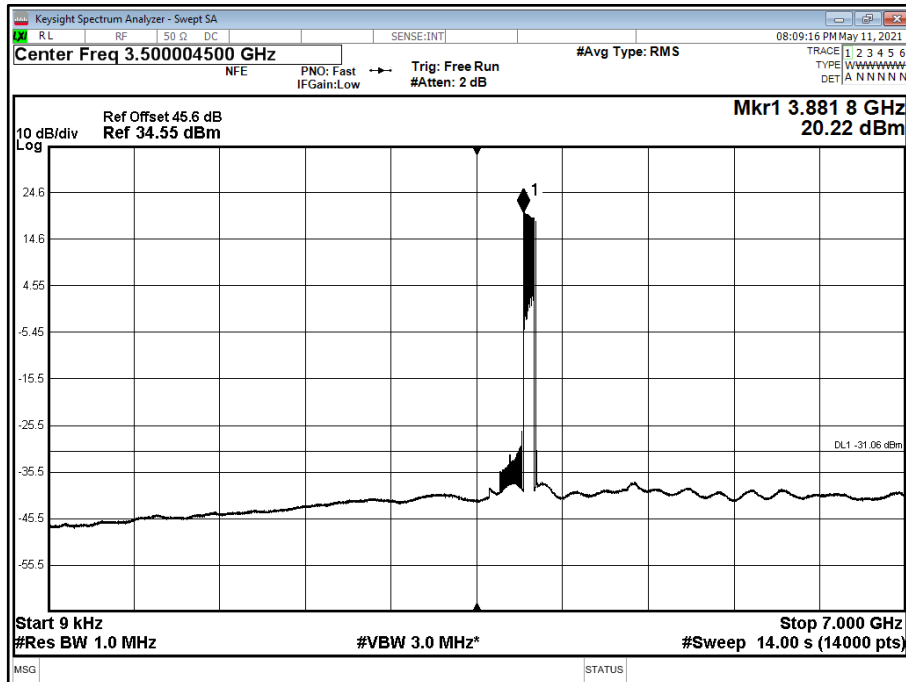


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position M - Band 1.00 - Range 0.009 to 7000 MHz

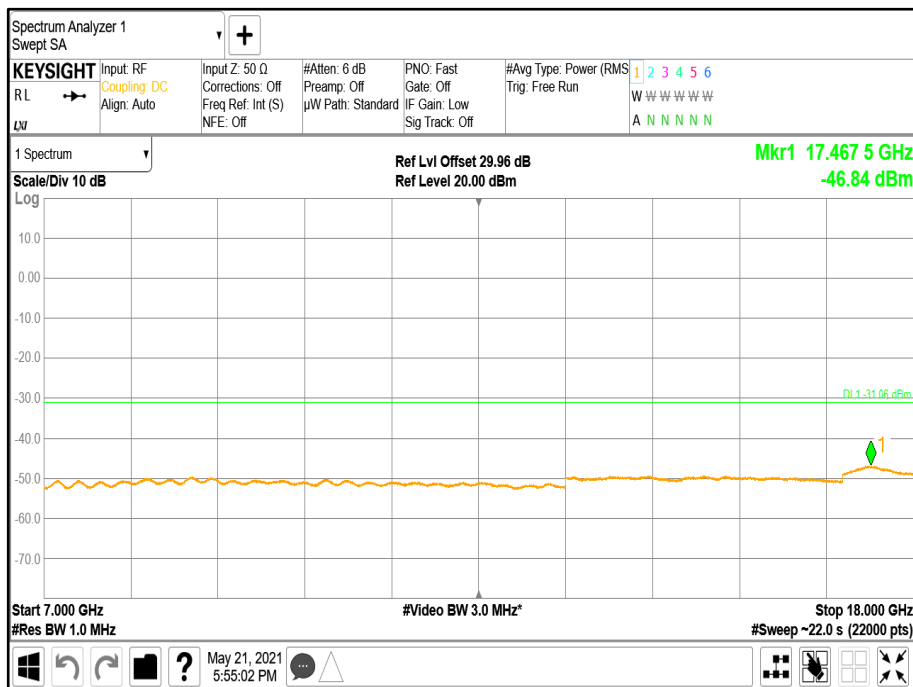




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position T - Band 1.00 - Range 0.009 to 7000 MHz

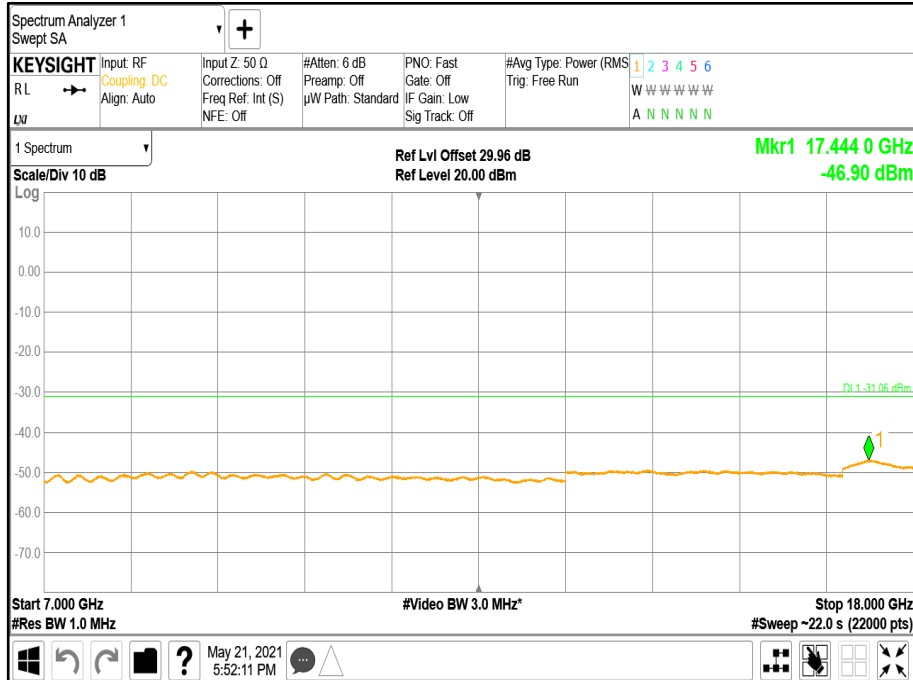


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position B - Band 2 - Range 7000 to 18000 MHz

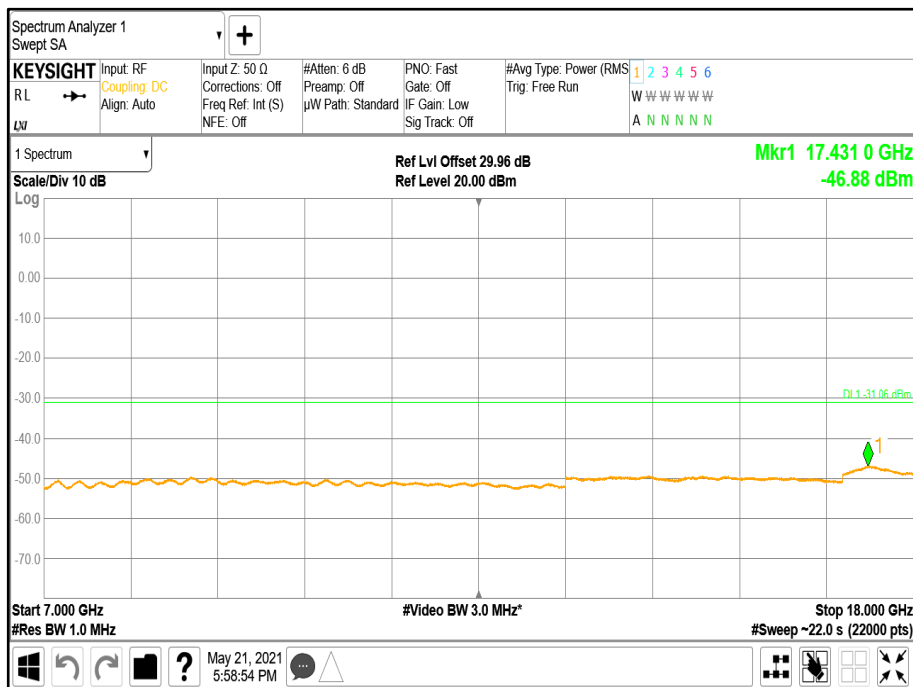




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position M - Band 2 - Range 7000 to 18000 MHz

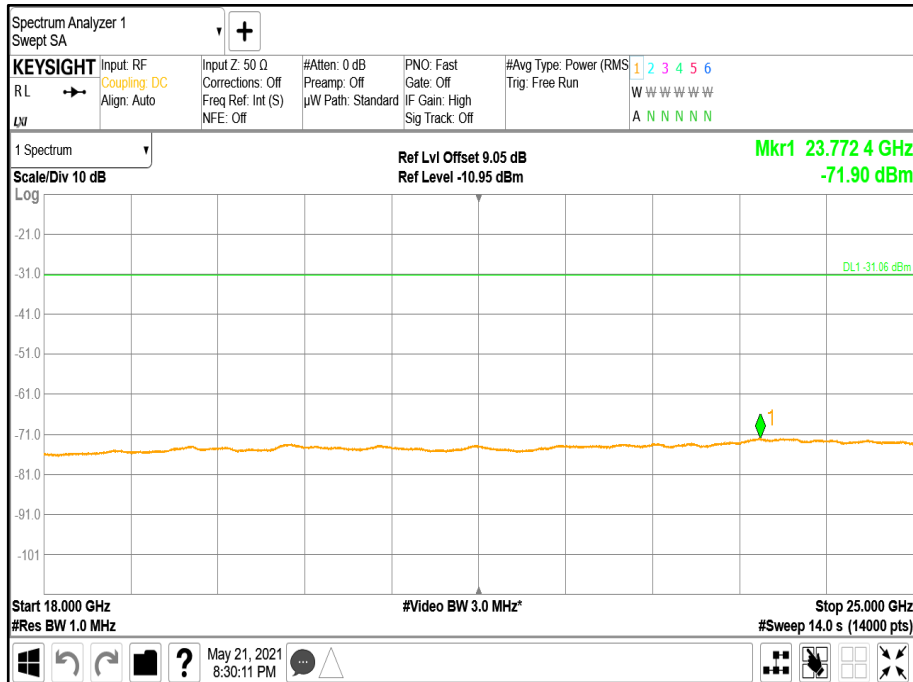


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position T - Band 2 - Range 7000 to 18000 MHz

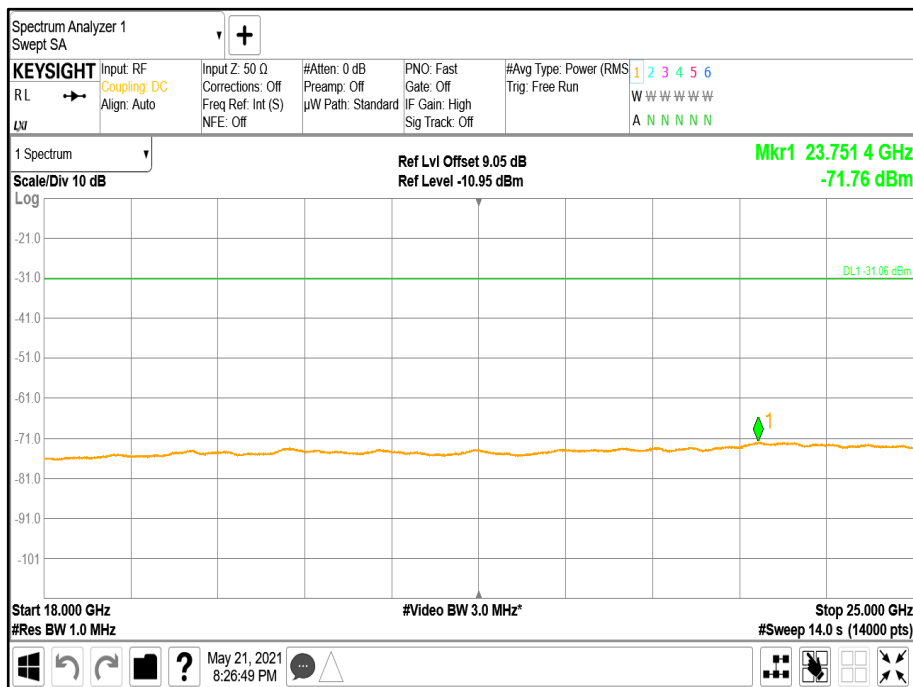




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position B - Band 3 - Range 18000 to 25000 MHz



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position M - Band 3 - Range 18000 to 25000 MHz

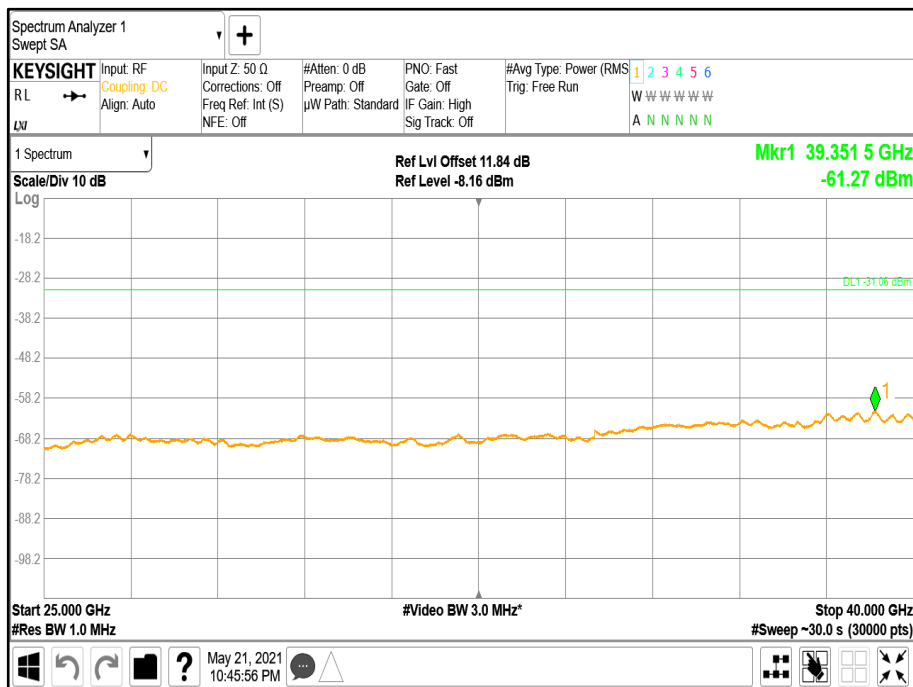




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position T - Band 3 - Range 18000 to 25000 MHz

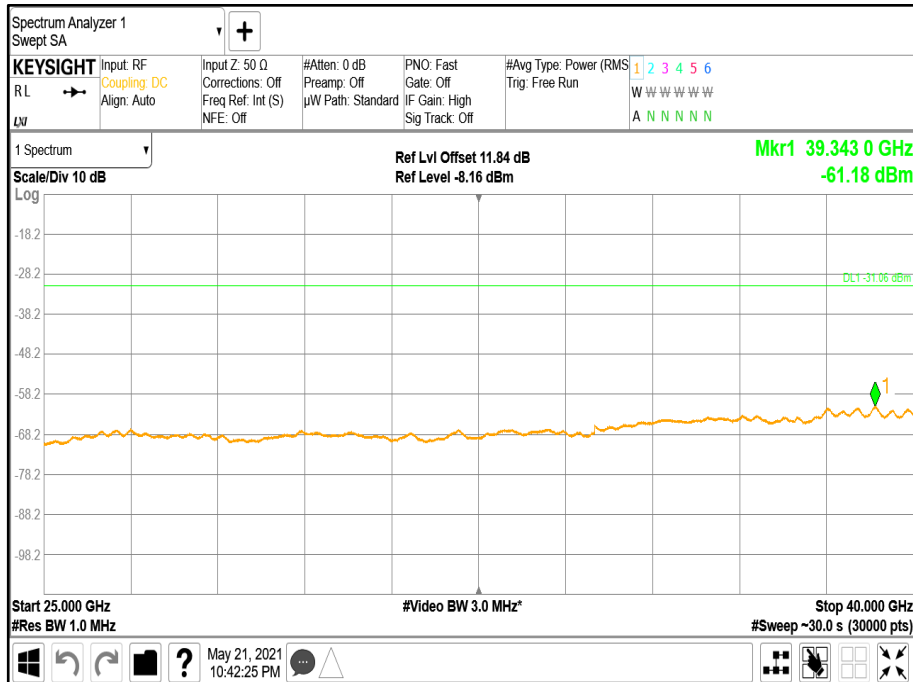


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position B - Band 4 - Range 25000 to 40000 MHz

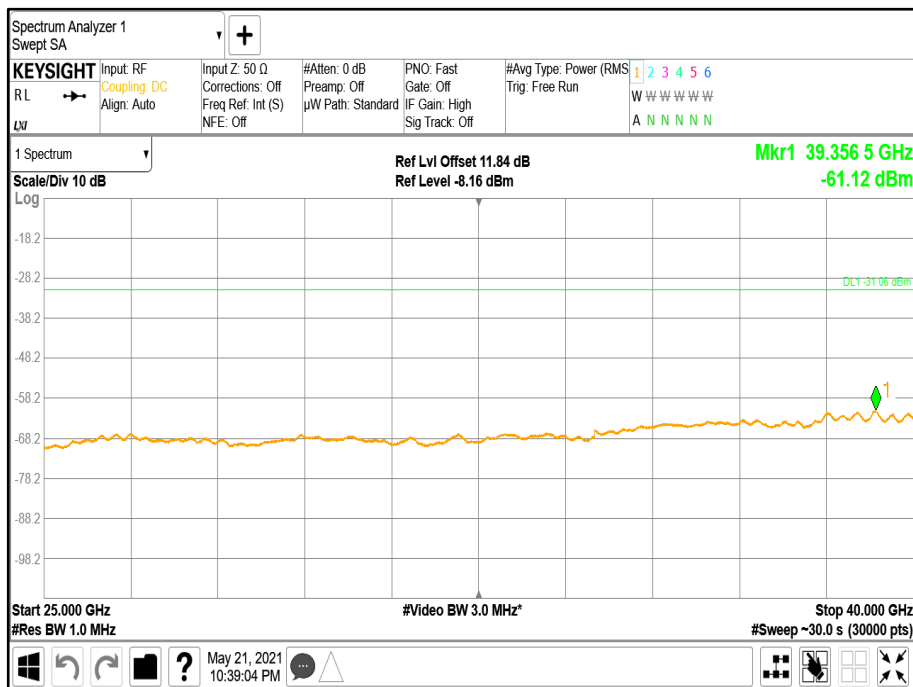




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position M - Band 4 - Range 25000 to 40000 MHz



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 100.0 MHz 30 kHz SCS - Channel Position T - Band 4 - Range 25000 to 40000 MHz

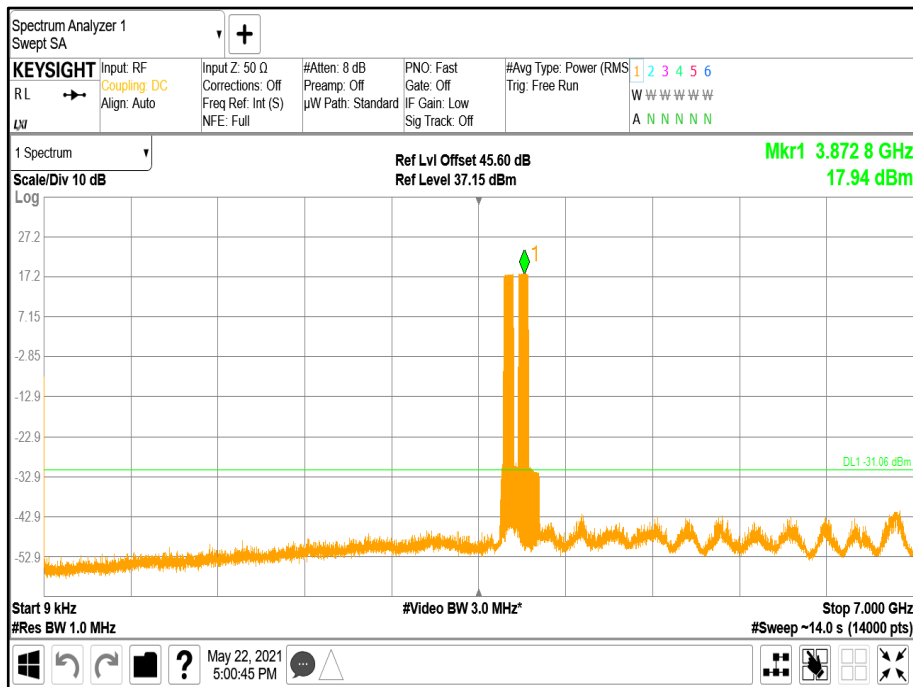




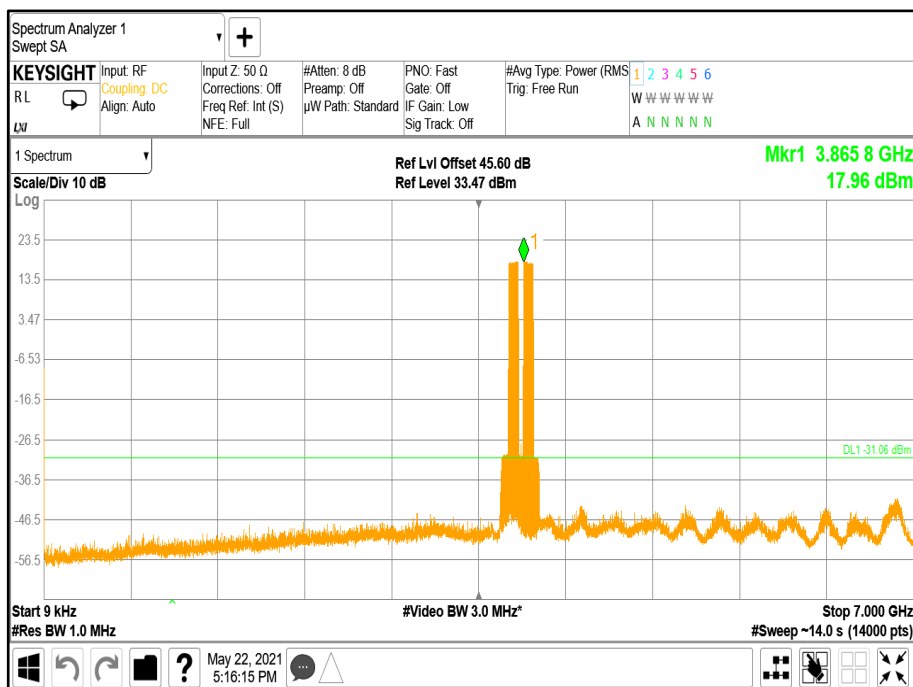
Configuration 6

Maximum Output Power 37.00 dBm

Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B - Band 1.00 - Range 0.009 to 7000 MHz

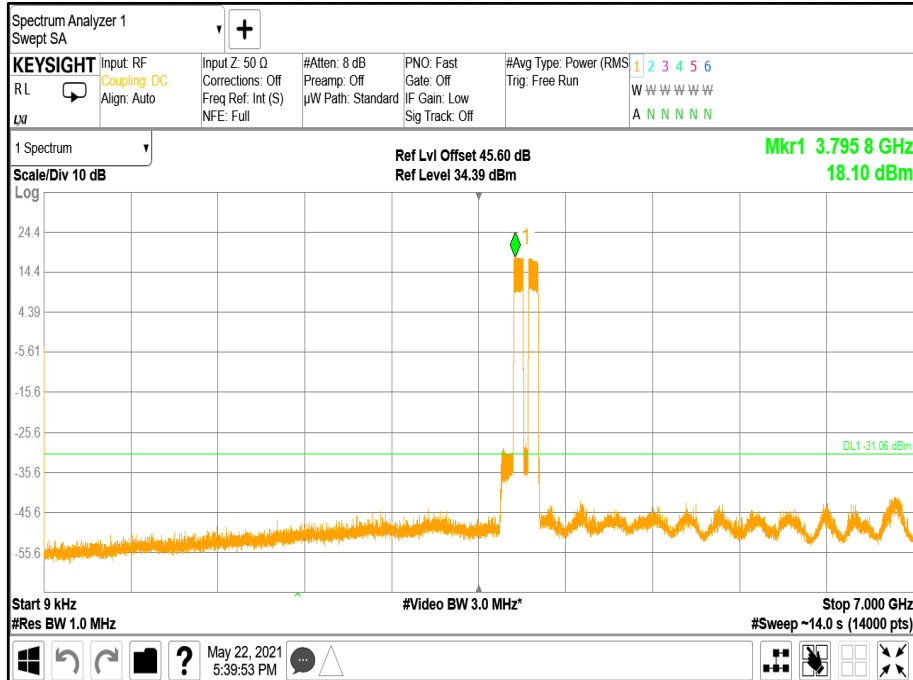


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position M - Band 1.00 - Range 0.009 to 7000 MHz

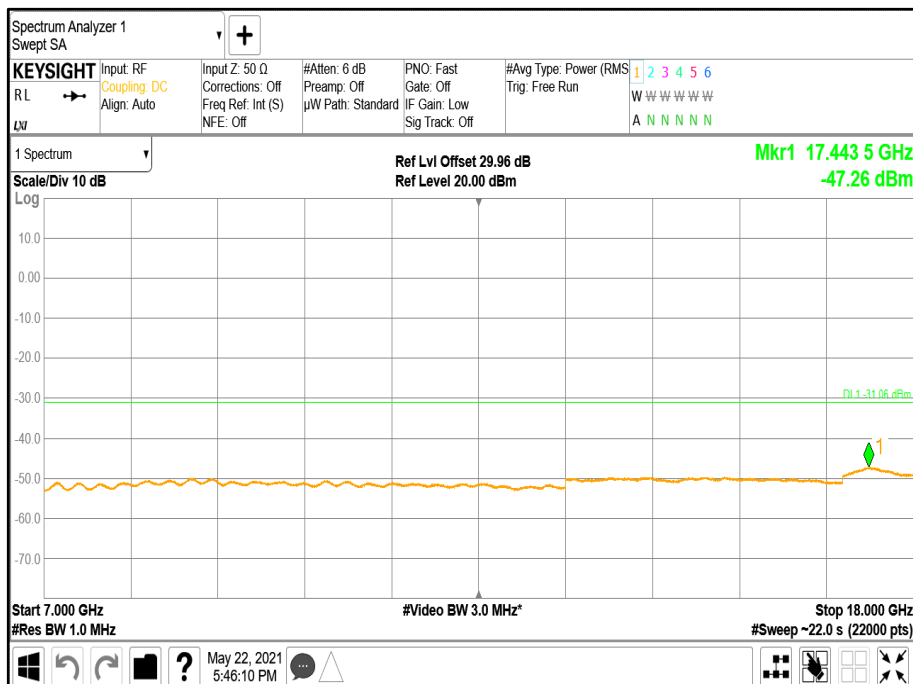




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T - Band 1.00 - Range 0.009 to 7000 MHz

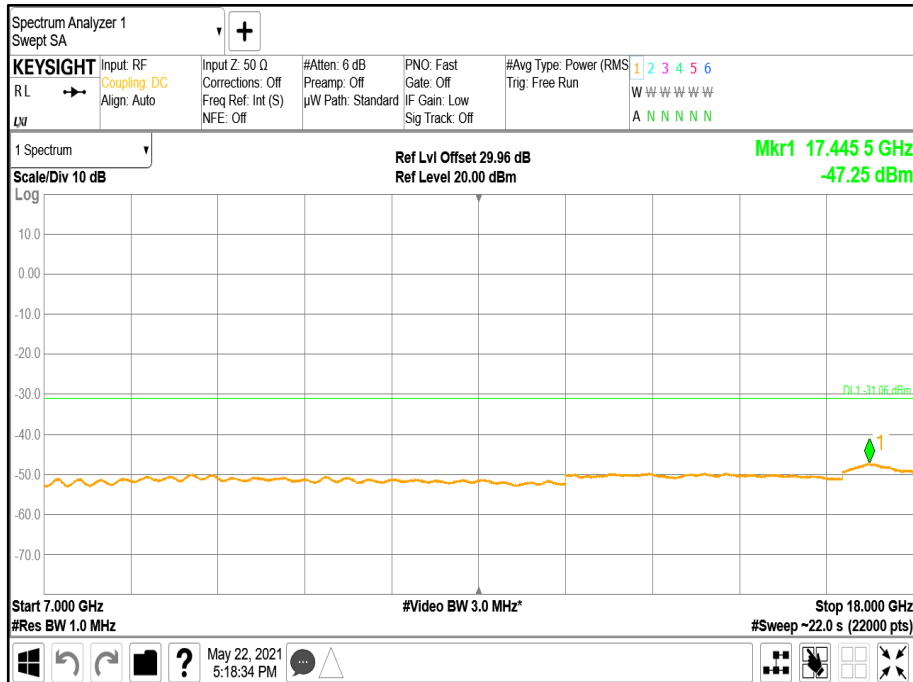


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B - Band 2 - Range 7000 to 18000 MHz

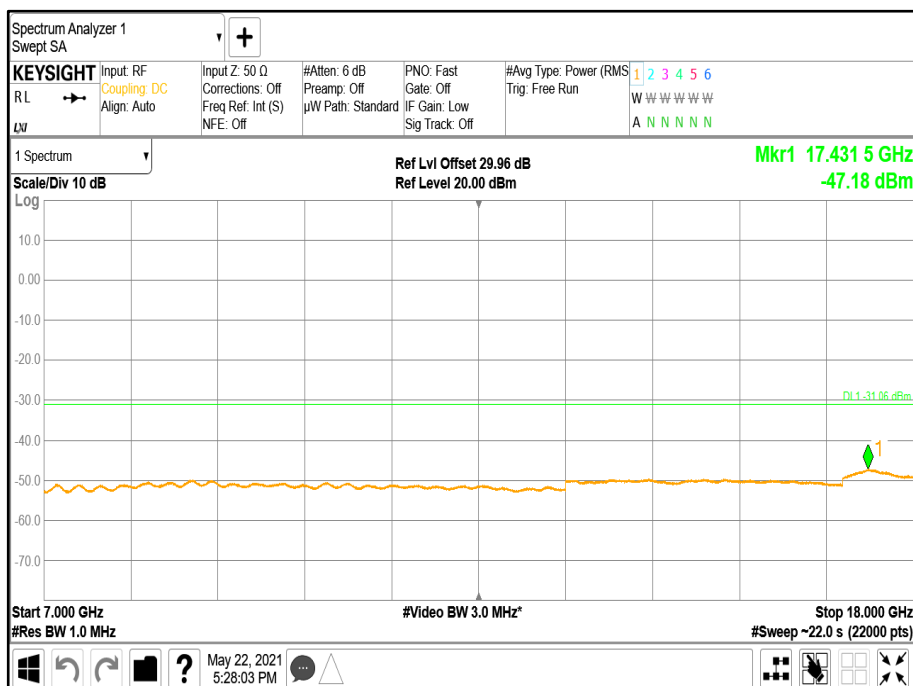




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position M - Band 2 - Range 7000 to 18000 MHz

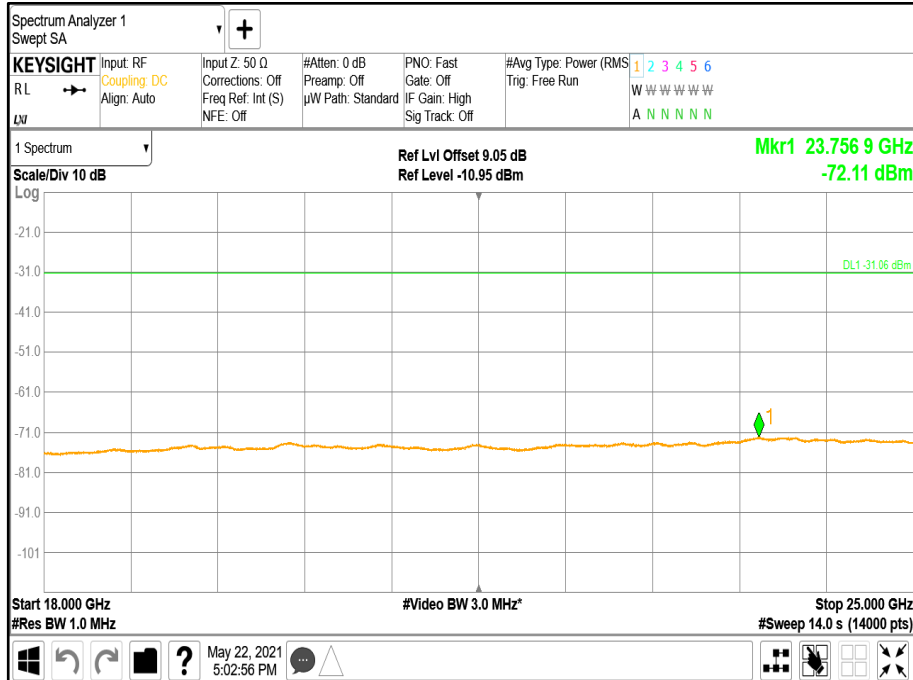


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T - Band 2 - Range 7000 to 18000 MHz

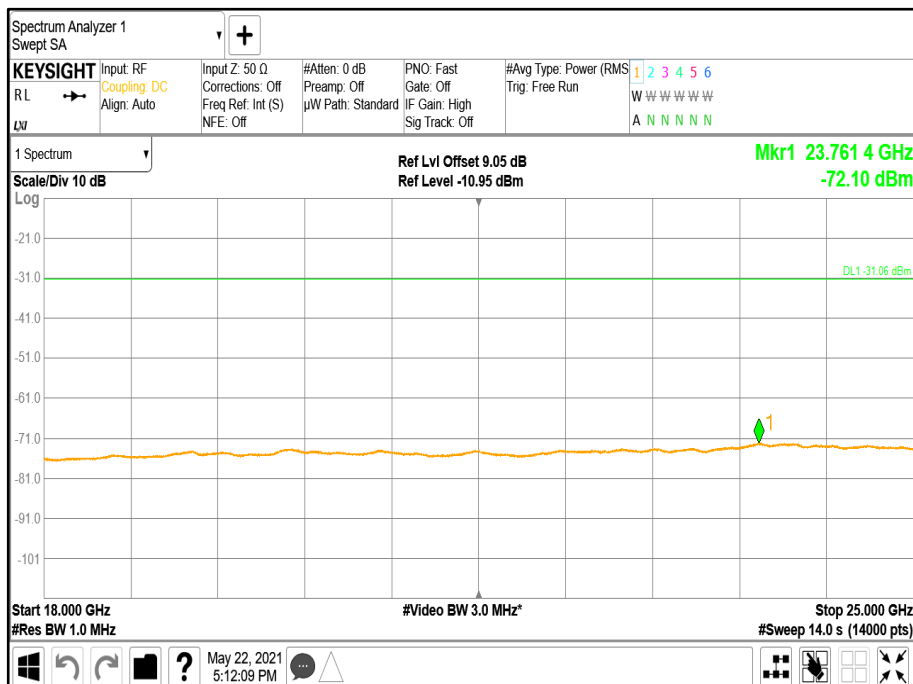




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B - Band 3 - Range 18000 to 25000 MHz

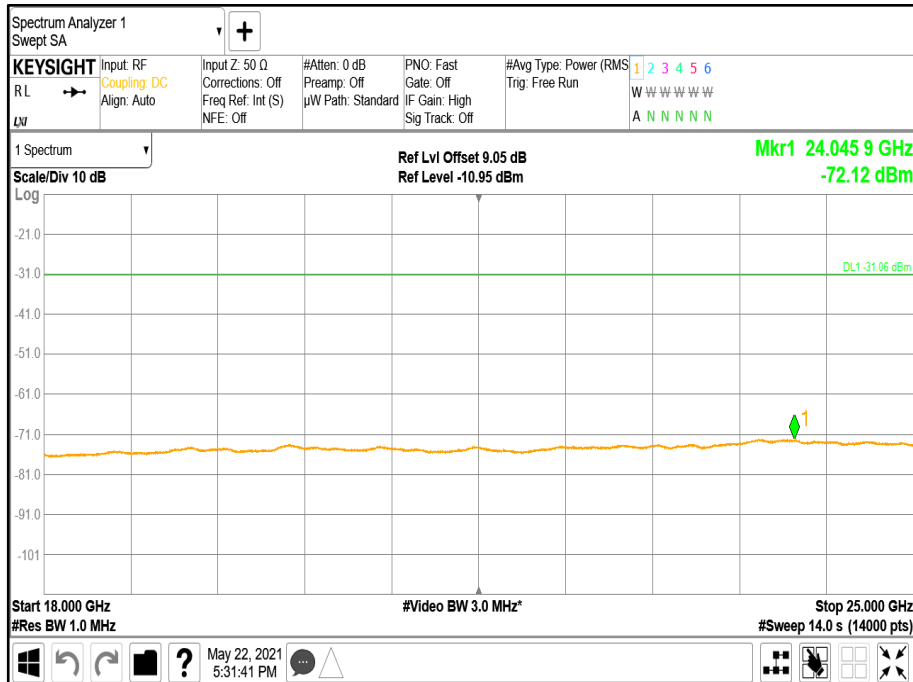


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position M - Band 3 - Range 18000 to 25000 MHz

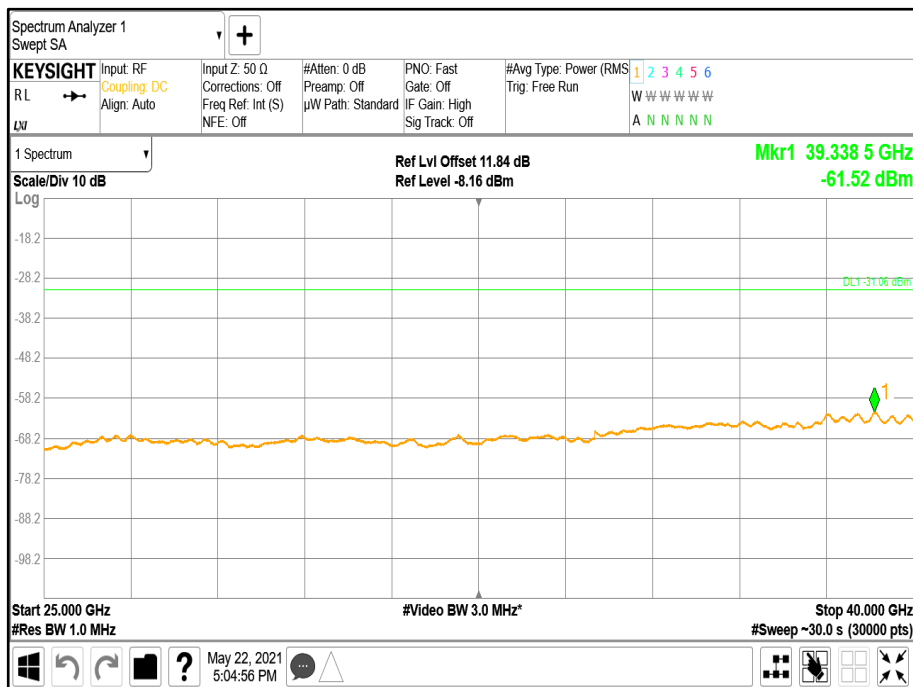




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T - Band 3 - Range 18000 to 25000 MHz

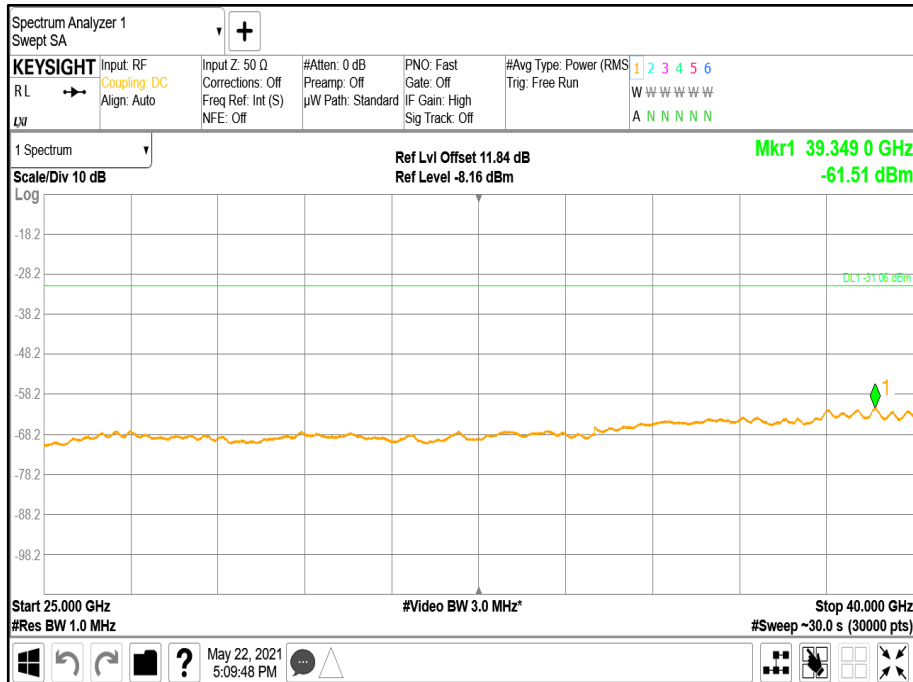


Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B - Band 4 - Range 25000 to 40000 MHz

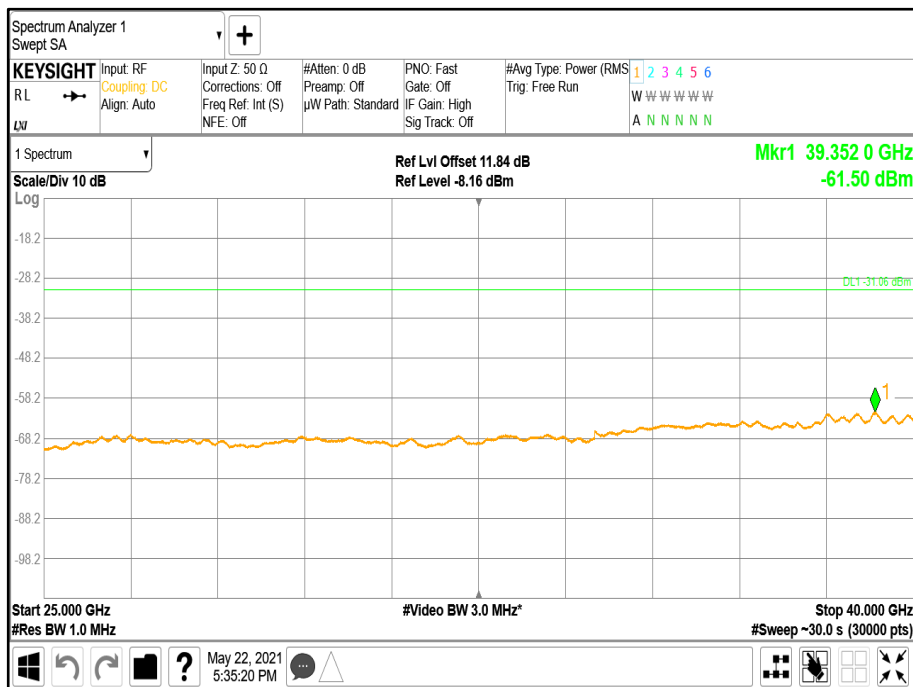




Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position M - Band 4 - Range 25000 to 40000 MHz



Antenna 3 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T - Band 4 - Range 25000 to 40000 MHz



Limit	-31.06dBm
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2.5 FREQUENCY STABILITY

2.5.1 Specification Reference

FCC CFR 47 Part 27, Clause 27.54
 FCC CFR 47 Part 2, Clause 2.1055

2.5.2 Date of Test and Modification State

18 and 19 May 2021 - Modification State 0

2.5.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.5.4 Environmental Conditions

Ambient Temperature 22.9-23.1°C
 Relative Humidity 35.8-36.9%

2.5.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01, Clause 9 and ANSI C63.26 Clause 5.6

2.5.6 Test Results

Configuration 2

Maximum Output Power 37.00 dBm

Temperature	Voltage	Frequency Error (Hz)
		Channel Position M
-30°C	-48.0 V DC	111.70
-20°C	-48.0 V DC	43.30
-10°C	-48.0 V DC	-248.60
0°C	-48.0 V DC	70.40
+10°C	-48.0 V DC	149.80
+20°C	-40.8 V DC	94.70
+20°C	-48.0 V DC	-189.60
+20°C	-55.2 V DC	9.40
+30°C	-48.0 V DC	44.10
+40°C	-48.0 V DC	-217.40
+50°C	-48.0 V DC	43.80

Limit	The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.
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SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Maximum Peak Output Power and Peak to Average Ratio - Conducted					
PXA Signal Analyser	Keysight	N9030B	BAMS 1002020934	12.00	25-May-2021
PXA Signal Analyser	Keysight	N9030A	BAMS1001562403	12	14-Jan-2022
Network Analyser	Agilent	N5230A	BAMS1000635869	12	08-Apr-2022
Power Supply	Delta Elektronicka	SM52-30	BAMS1000077230	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QM935	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QC181	N/A	O/P Mon
Thermohygrometer	Rotronic	HP21	005264	12	15-Jul-2021
Occupied Bandwidth					
PXA Signal Analyser	Keysight	N9030B	BAMS 1002020934	12.00	25-May-2021
PXA Signal Analyser	Keysight	N9030A	BAMS1001562403	12	14-Jan-2022
Network Analyser	Agilent	N5230A	BAMS1000635869	12	08-Apr-2022
Power Supply	Delta Elektronicka	SM52-30	BAMS1000077230	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QM935	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QC181	N/A	O/P Mon
Thermohygrometer	Rotronic	HP21	005264	12	15-Jul-2021
Band Edge					
PXA Signal Analyser	Keysight	N9030B	BAMS 1002020934	12.00	25-May-2021
PXA Signal Analyser	Keysight	N9030A	BAMS1001562403	12	14-Jan-2022
Network Analyser	Agilent	N5230A	BAMS1000635869	12	08-Apr-2022
Power Supply	Delta Elektronicka	SM52-30	BAMS1000077230	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QM935	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QC181	N/A	O/P Mon
Thermohygrometer	Rotronic	HP21	005264	12	15-Jul-2021
Transmitter Spurious Emissions					
PXA Signal Analyser	Keysight	N9030B	BAMS 1002020934	12.00	25-May-2021
PXA Signal Analyser	Keysight	N9030A	BAMS1001562403	12	14-Jan-2022
Network Analyser	Agilent	N5230A	BAMS1000635869	12	08-Apr-2022
Power Supply	Delta Elektronicka	SM52-30	BAMS1000077230	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QM935	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QC181	N/A	O/P Mon
Thermohygrometer	Rotronic	HP21	005264	12	15-Jul-2021
High Pass Filter	RF-Lambda	RHPF23G07G18	SN18082900034	N/A	OP MON
Waveguide Filter	FMIUK	22093KF	86	N/A	OP MON
Waveguide Filter	FMIUK	22093KF	41	N/A	OP MON
Frequency Stability					
Digital Multimeter	Fluke	179.00	TE5265	12.00	03-Jul-2021
PXA Signal Analyser	Keysight	N9030B	BAMS 1002020934	12.00	25-May-2021
PXA Signal Analyser	Keysight	N9030A	BAMS1001562403	12	14-Jan-2022
Network Analyser	Agilent	N5230A	BAMS1000635869	12	08-Apr-2022
Power Supply	Delta Elektronicka	SM52-30	BAMS1000077230	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QM935	N/A	O/P Mon
Attenuator	Weinschel	6834-20-11	QC181	N/A	O/P Mon
Thermohygrometer	Rotronic	HP21	005264	12	15-Jul-2021
Climatic Chamber	Vötsch	VC7060R500	58566154840080	N/A	O/P Mon
Power Supply	N8738A	N8738A	US17L836P	N/A	O/P Mon
Thermometer	Fluke	51	TE3174	12	02-Dec-2021

N/A – Not Applicable

O/P Mon – Output Monitored with Calibrated Equipment



3.2 MEASUREMENT SOFTWARE USED

List of measurement software versions used for testing.

Instrument	Manufacturer	Type No.	TE No.	Software Version
PXA Signal Analyser	Keysight	N9030B	BAMS 1002020934	A 24.56
PXA Signal Analyser	Keysight	N9030A	BAMS1001562403	A.19.05
HP-VEE Software	TUV SUD	HP_VEE	N/A	V3.25



3.3 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:-

Test Discipline	Frequency / Parameter	MU	
Conducted Maximum Peak Output Power	30 MHz to 20 GHz Amplitude	± 0.89 dB	
Conducted Emissions	30 MHz to 40 GHz Amplitude	± 2.58 dB	
Frequency Stability	30 MHz to 4 GHz	± 5.0 Hz	
Occupied Bandwidth	Up to 100 MHz Bandwidth	20 MHz Bandwidth	± 145902 Hz
		40 MHz Bandwidth	± 269993 Hz
		60 MHz Bandwidth	± 401281 Hz
		80 MHz Bandwidth	± 531685 Hz
		100 MHz Bandwidth	± 661162 Hz
Band Edge	30 MHz to 20 GHz Amplitude	±0.89dB	

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.



SECTION 4

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



4.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



Accred. no. 10363
Testing
ISO/IEC 17025

This report relates only to the actual item/items tested.

Our Swedac Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our Swedac Accreditation.

Results of tests not covered by our Swedac Accreditation Schedule are marked NSA (Not Swedac Accredited).

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Postal Address: Djäknegatan 31, 211 35, Malmö, Sweden

ANNEX A

MODULE LIST

Configurations 1-6			
Product	Product No	R-State	Serial No
AIR 6449B77D	KRD 901 206/2	R1F	E23C810762
CT11	LPC102494/1	R2A	TO1G487938
Software Version:	CXP2030039/1	Revision:	R50C22