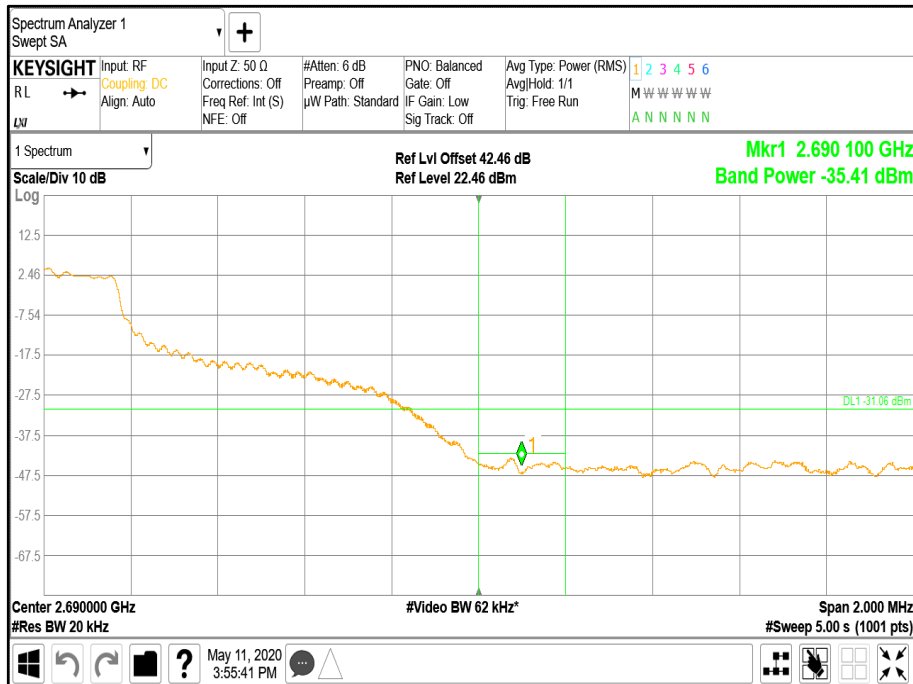




Antenna Port 17 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B

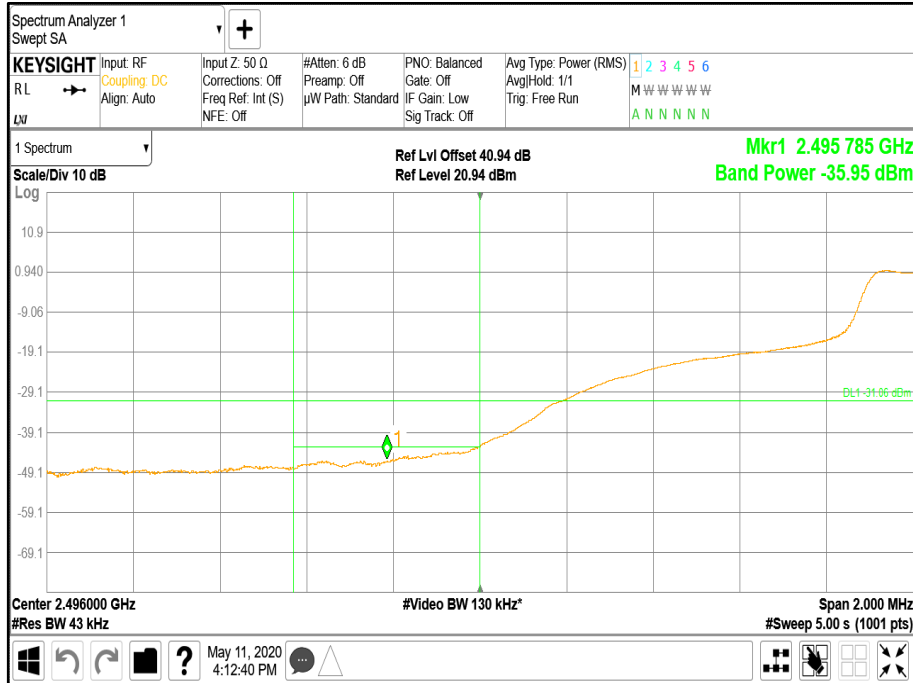


Antenna Port 10 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position T

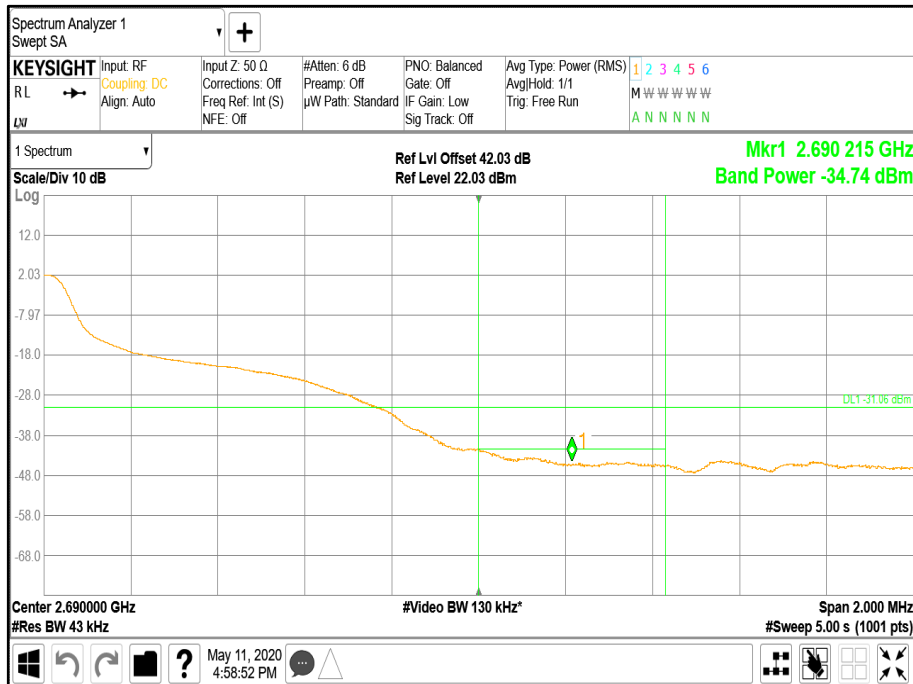




Antenna Port 2 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position B

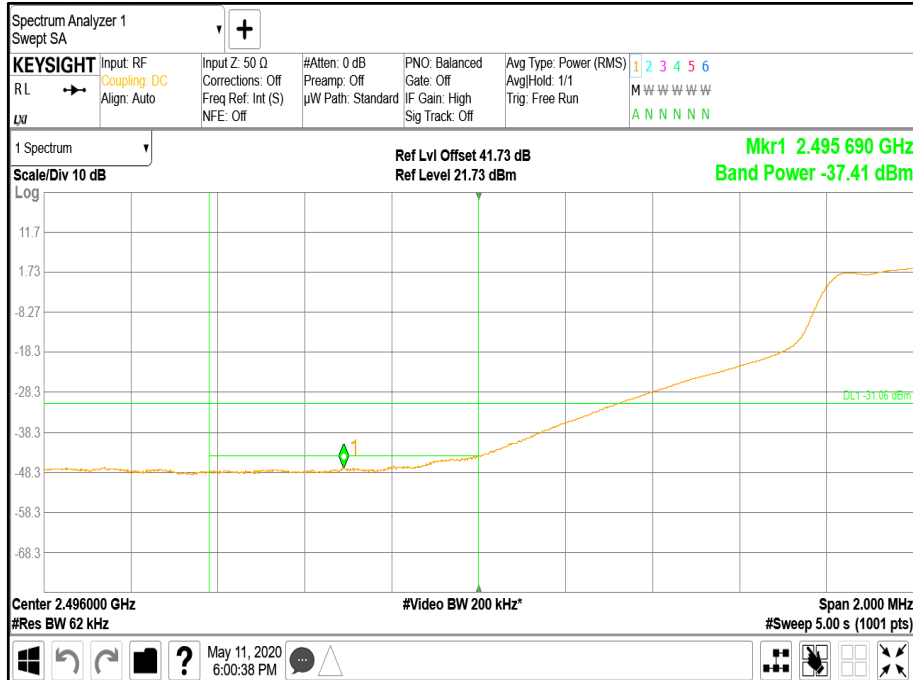


Antenna Port 2 - NR Modulation 64QAM - NR Carrier Bandwidth 40.0 MHz 30 kHz SCS - Channel Position T

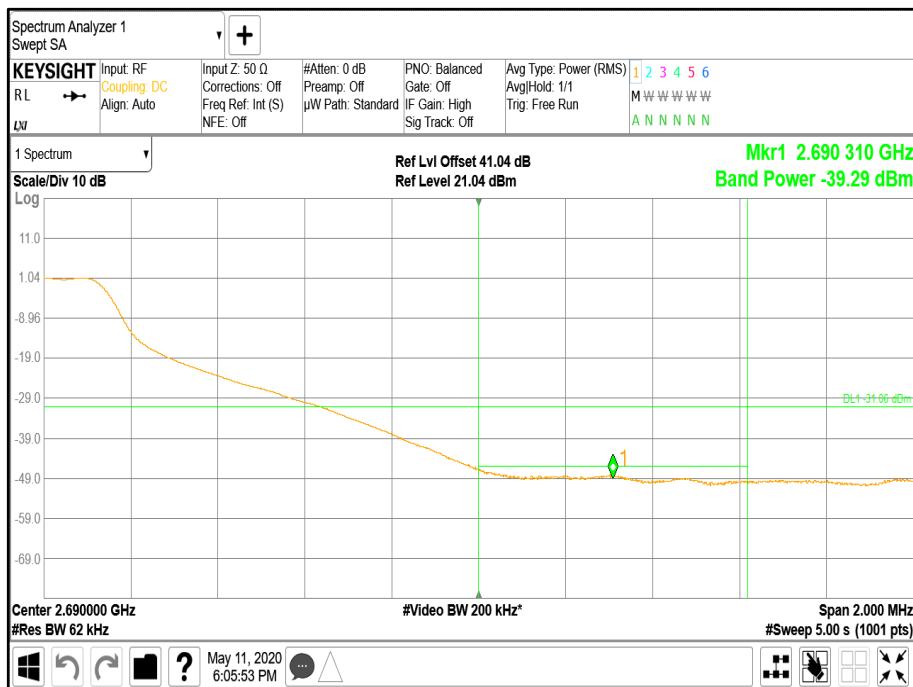




Antenna Port 18 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position B

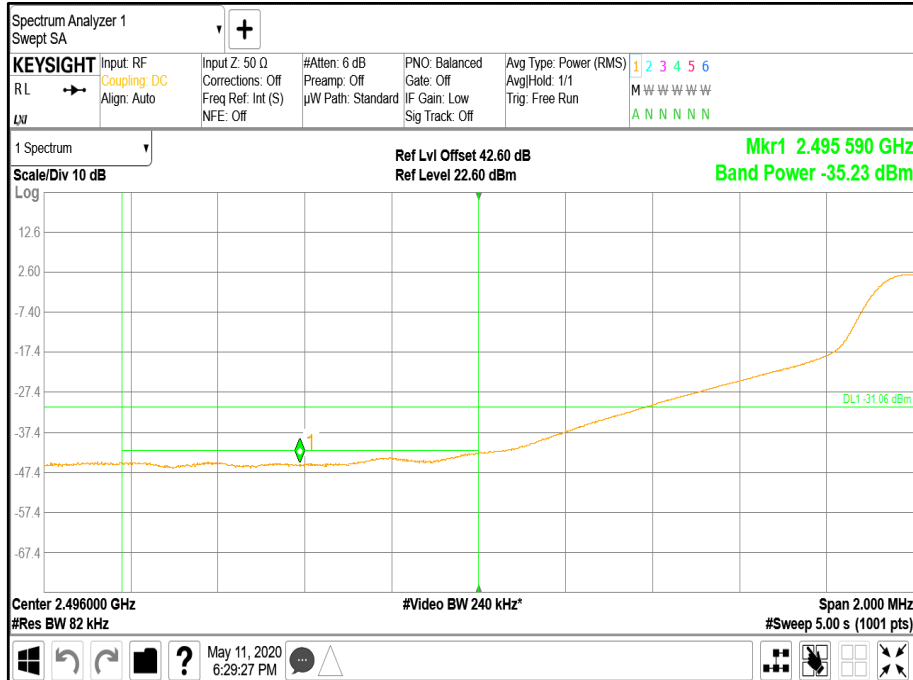


Antenna Port 18 - NR Modulation 64QAM - NR Carrier Bandwidth 60.0 MHz 30 kHz SCS - Channel Position T

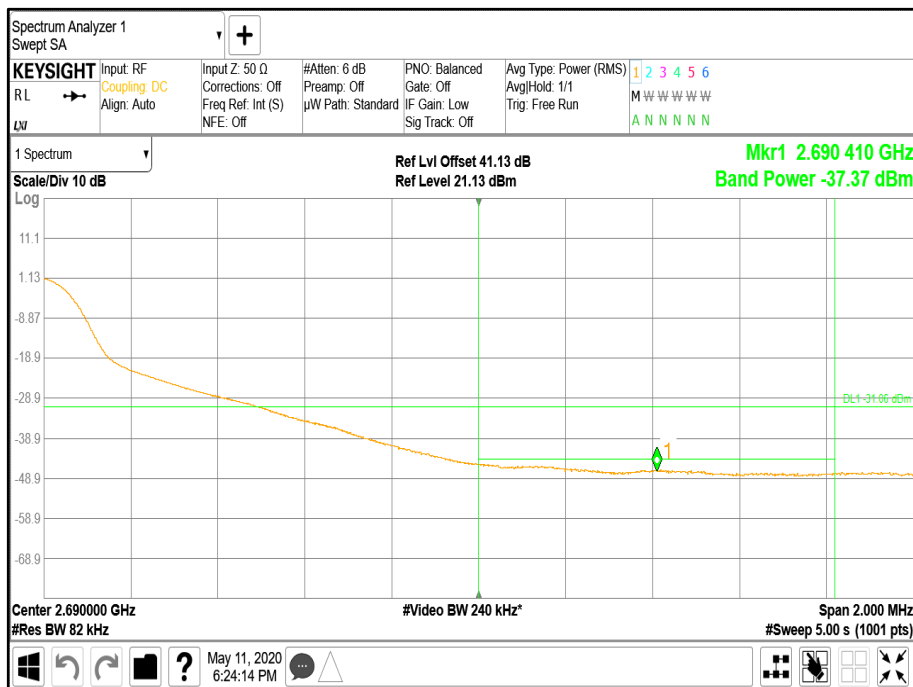




Antenna Port 28 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position B



Antenna Port 28 - NR Modulation 64QAM - NR Carrier Bandwidth 80.0 MHz 30 kHz SCS - Channel Position T



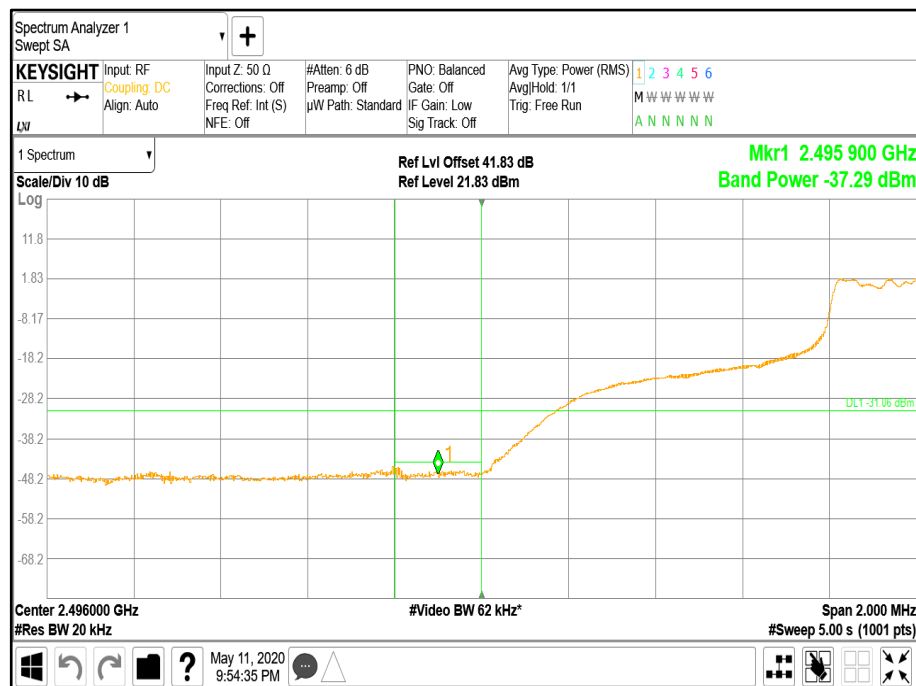


Configuration 7

Maximum Output Power 36.0 dBm

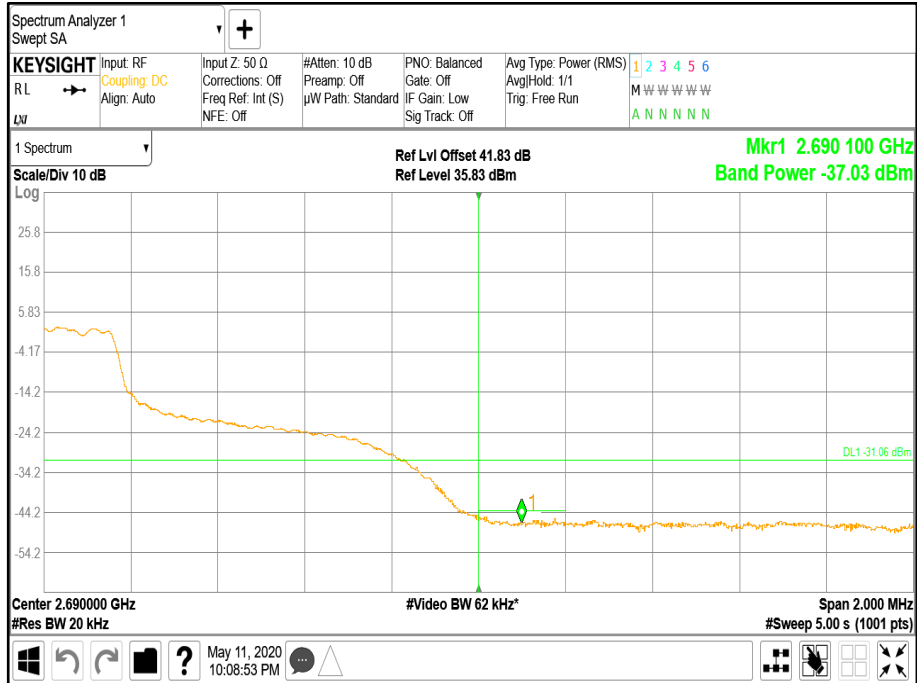
Antenna Port	LTE / NR Modulation	LTE / NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B <sub>RFBW</sub>	Channel Position T <sub>RFBW</sub>
34.0	64QAM / 64QAM	LTE 10.0 MHz + NR 20.0 MHz	2506 + 2521	2665 + 2680

Antenna Port 34 - LTE / NR Modulation 64QAM / 64QAM - LTE / NR Carrier Bandwidth LTE 10.0 MHz + NR 20.0 MHz SCNS 30kHz- Channel Position B





Antenna Port 34 - LTE / NR Modulation 64QAM / 64QAM - LTE / NR Carrier Bandwidth LTE  
10.0 MHz + NR 20.0 MHz SCNS 30kHz - Channel Position T



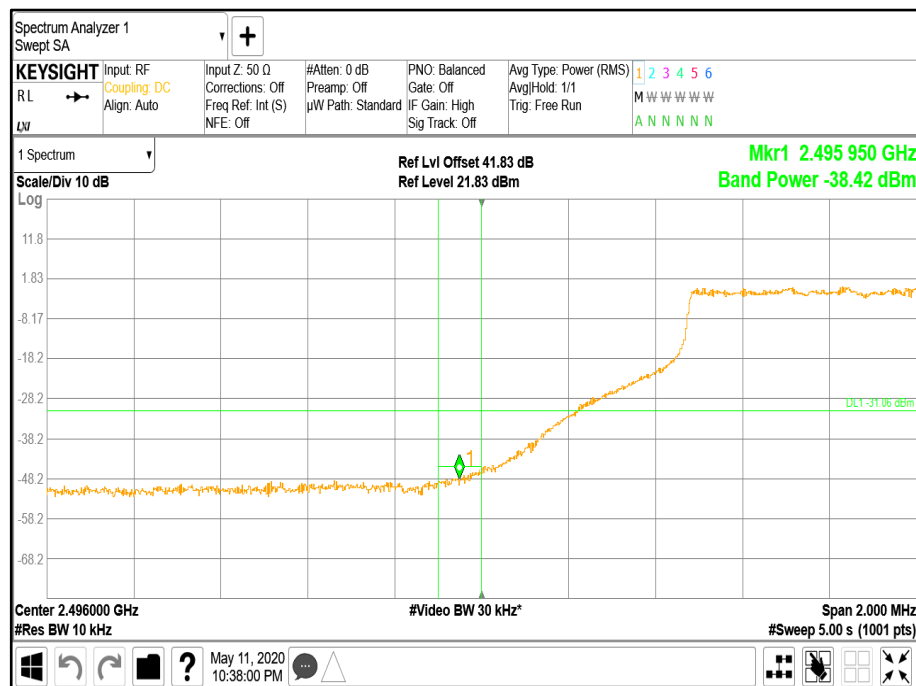


Configuration 8

Maximum Output Power 36.0 dBm

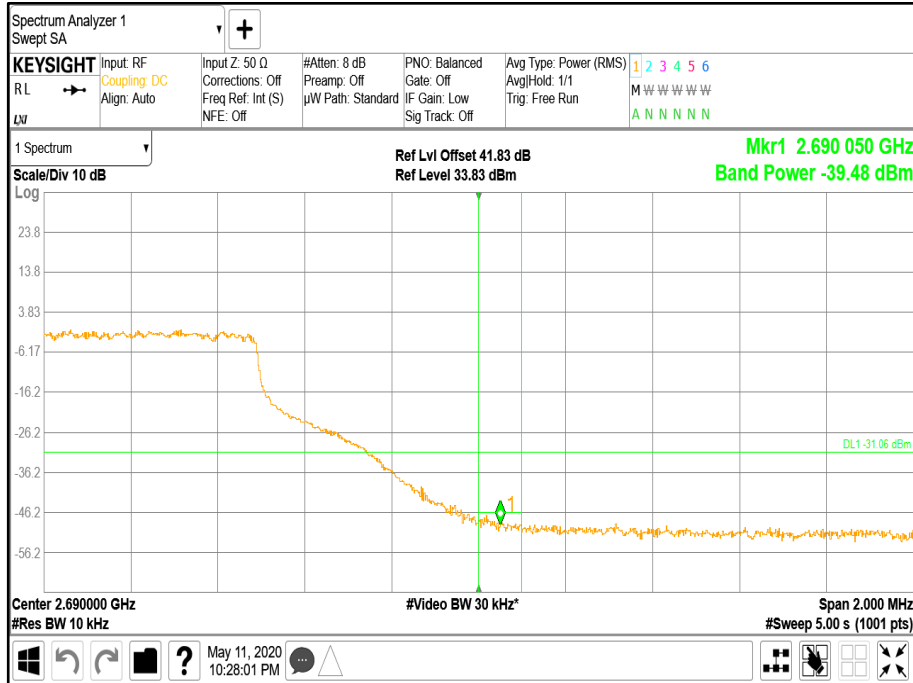
Antenna Port	LTE / NR Modulation	LTE / NR Carrier Bandwidth	Band Edge (MHz)	
			Channel Position B <sub>RFBW</sub>	Channel Position T <sub>RFBW</sub>
34.0	64QAM / 64QAM	10.0 MHz +10.0 MHz+10.0 MHz +20.0 MHz	2501+2511+2521+ 2536	2650+2665+2675+ 2685

Antenna Port 34 - LTE / NR Modulation 64QAM / 64QAM – LTE 10.0 MHz +10.0 MHz +10.0 MHz +NR 20.0 MHz - Channel Position B





Antenna Port 34 - LTE / NR Modulation 64QAM / 64QAM – LTE 10.0 MHz +10.0 MHz +10.0 MHz +NR 20.0 MHz - Channel Position T



Limit	-31.06 dBm
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## **2.4 TRANSMITTER SPURIOUS EMISSIONS**

### **2.4.1 Specification Reference**

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

### **2.4.2 Date of Test and Modification State**

07, 08, 11, 12, 21 and 22 May 2020 - 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	21.3 - 22.5°C
Relative Humidity	24.9 - 31.7%

### **2.4.5 Test Method**

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

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  $-13 \text{ dBm} - 10 * \text{Log}(1) = -16 \text{ dBm}$ .

For 64 port, the limit was calculated as being  $-13 \text{ dBm} - 10 * \text{Log}(2) = -31.06 \text{ dBm}$ .

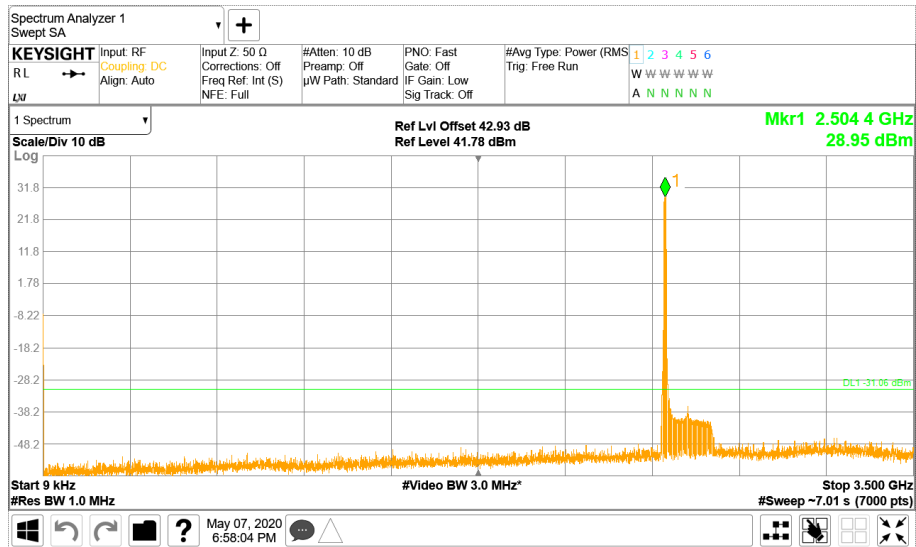
### **2.4.6 Test Results**

Configuration 1

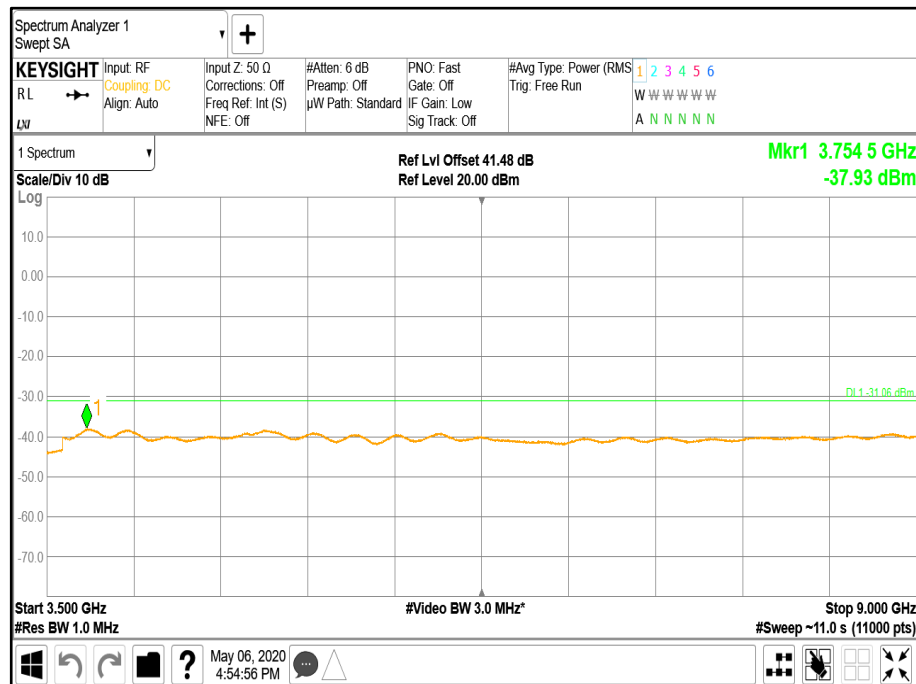
Maximum Output Power 36.0 dBm



**Antenna Port 21 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 1 - Range 09 to 3500 MHz**

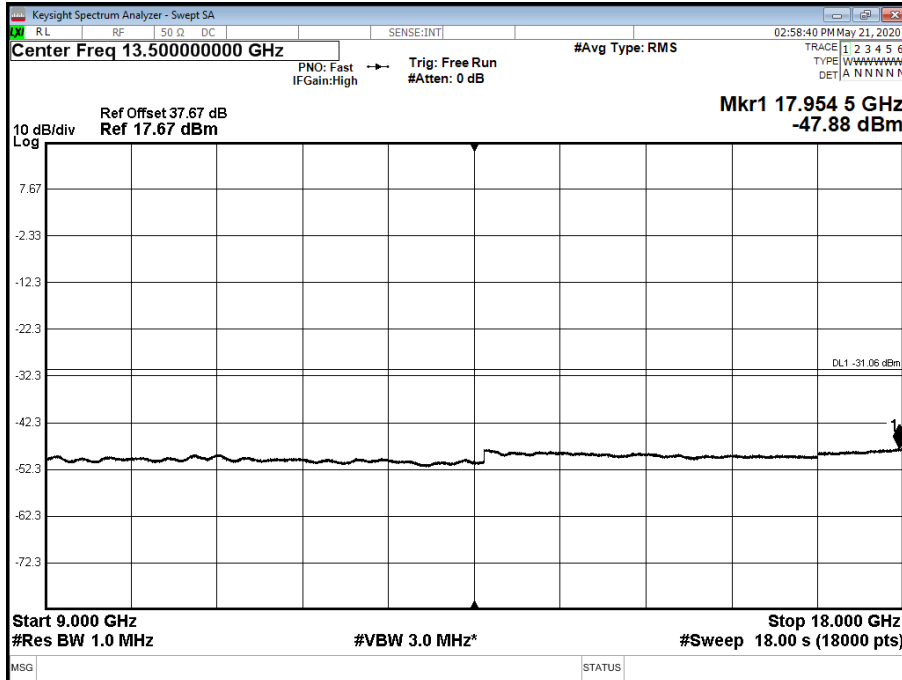


**Antenna Port 21 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 2 - Range 3500 to 9000 MHz**

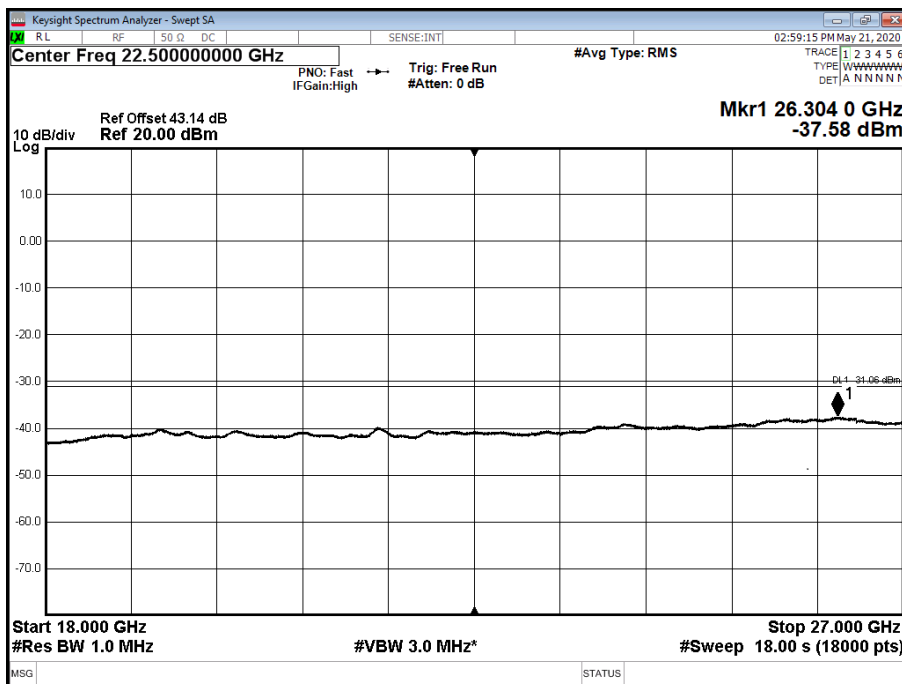




Antenna Port 21 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 3 - Range 9000 to 18000 MHz

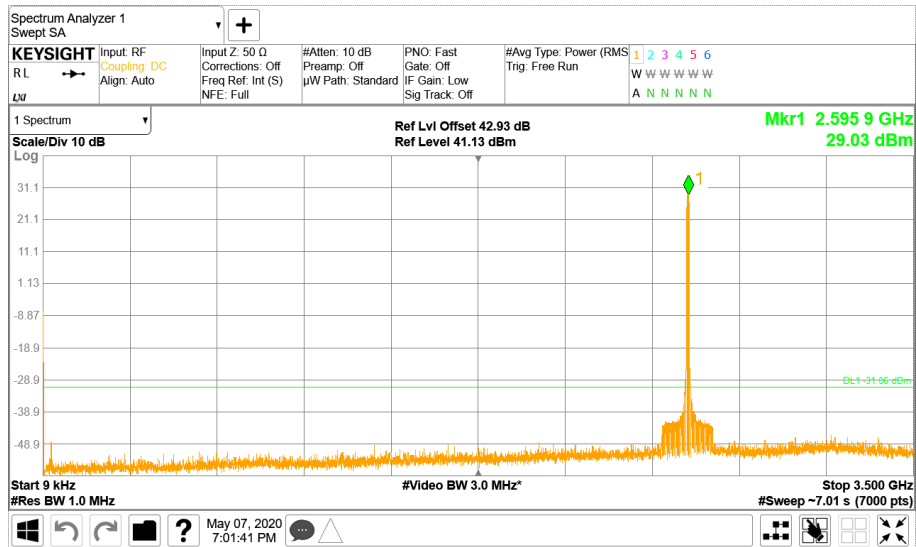


Antenna Port 21 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 4 - Range 18000 to 27000 MHz

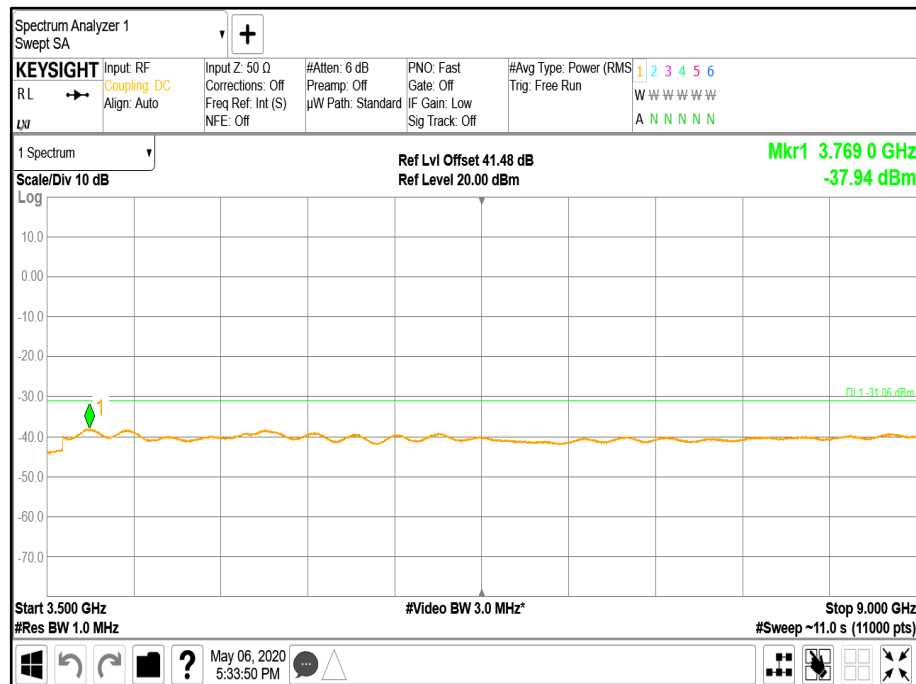




Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 1 - Range 09 to 3500 MHz

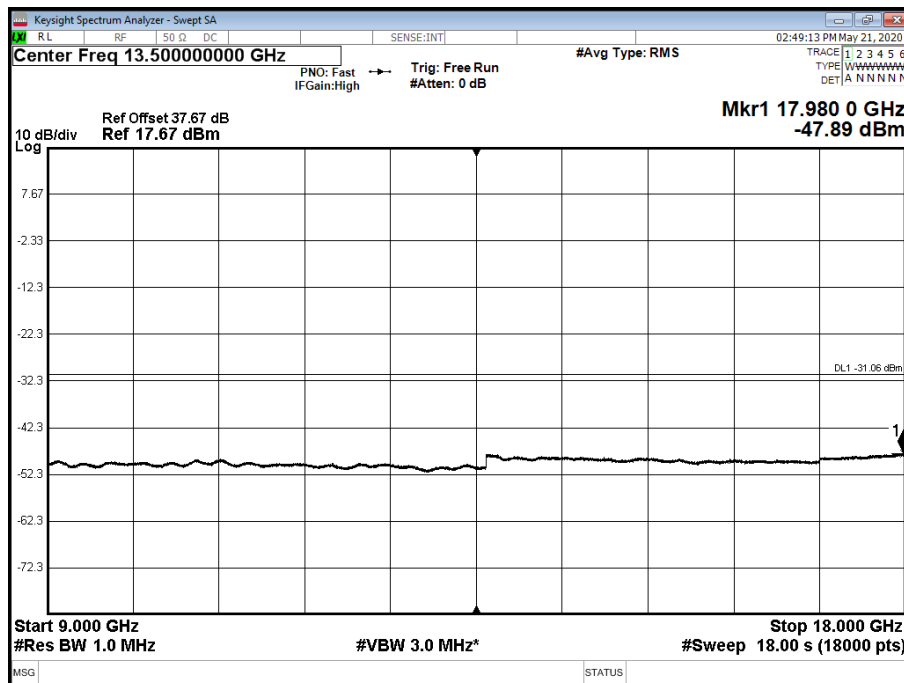


Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 2 - Range 3500 to 9000 MHz

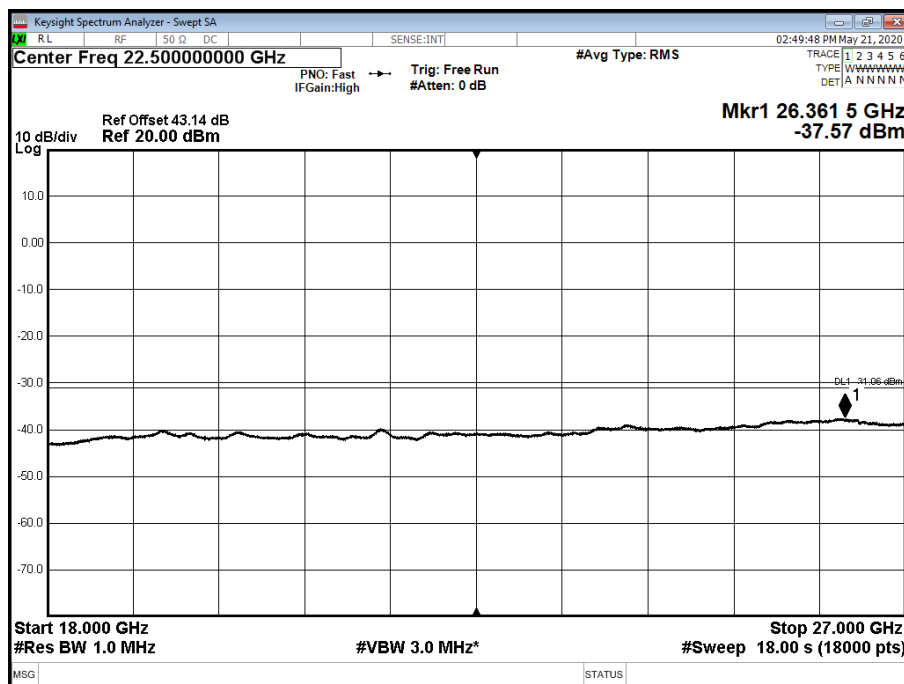




Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 3 - Range 9000 to 18000 MHz

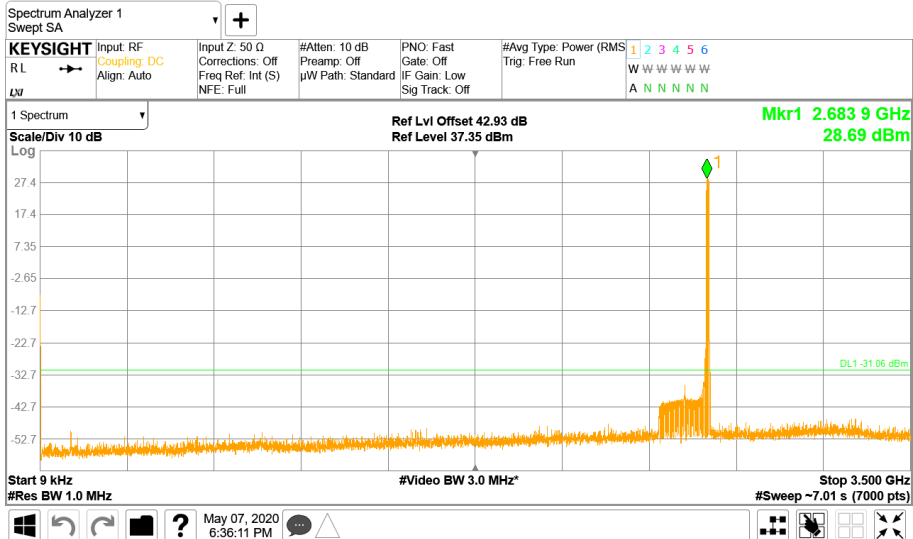


Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 4 - Range 18000 to 27000 MHz

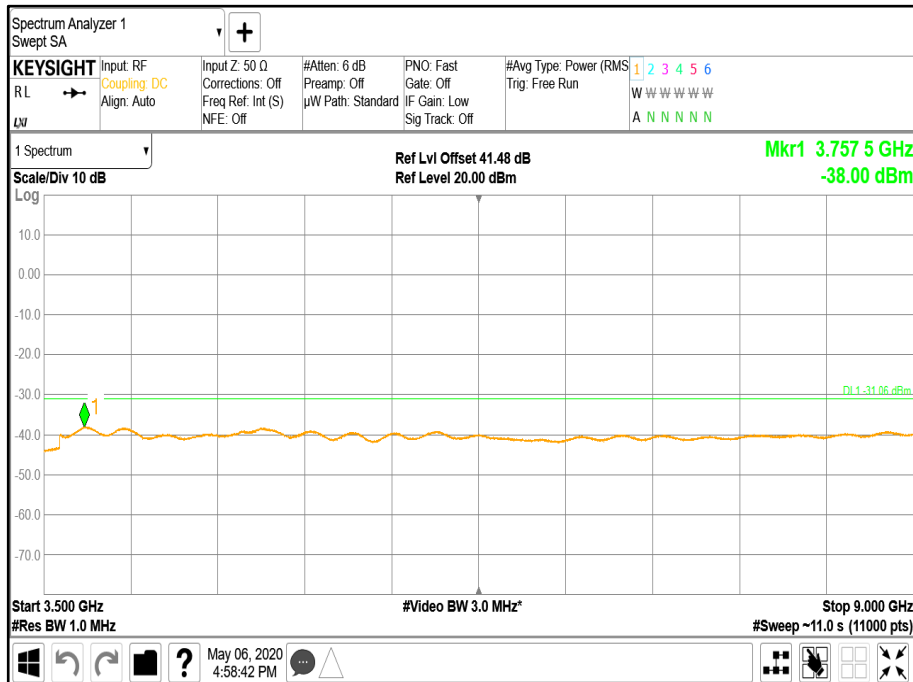




**Antenna Port 59 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 1 - Range 09 to 3500 MHz**

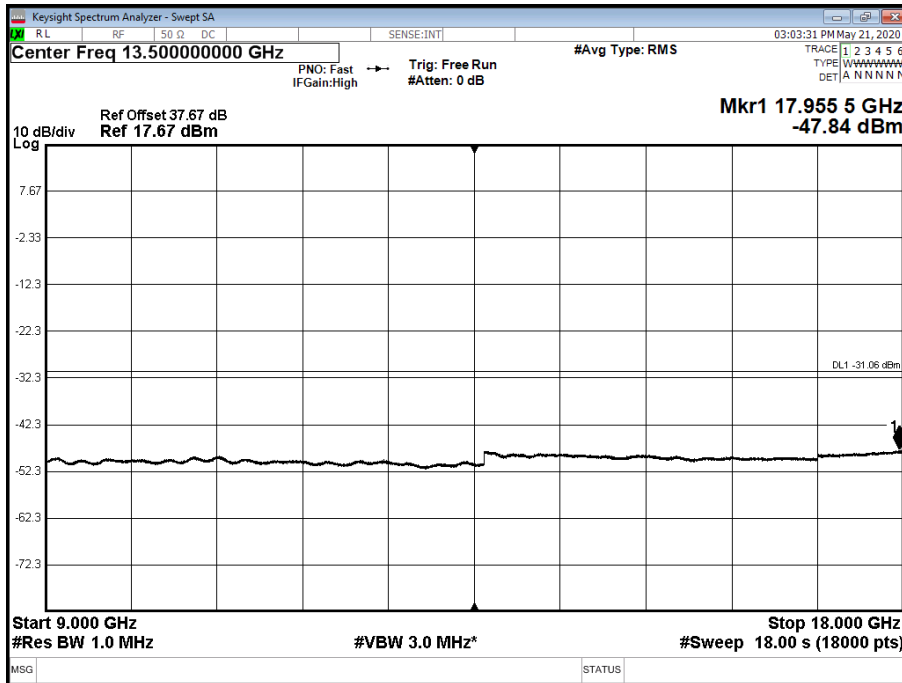


**Antenna Port 59 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 2 - Range 3500 to 9000 MHz**

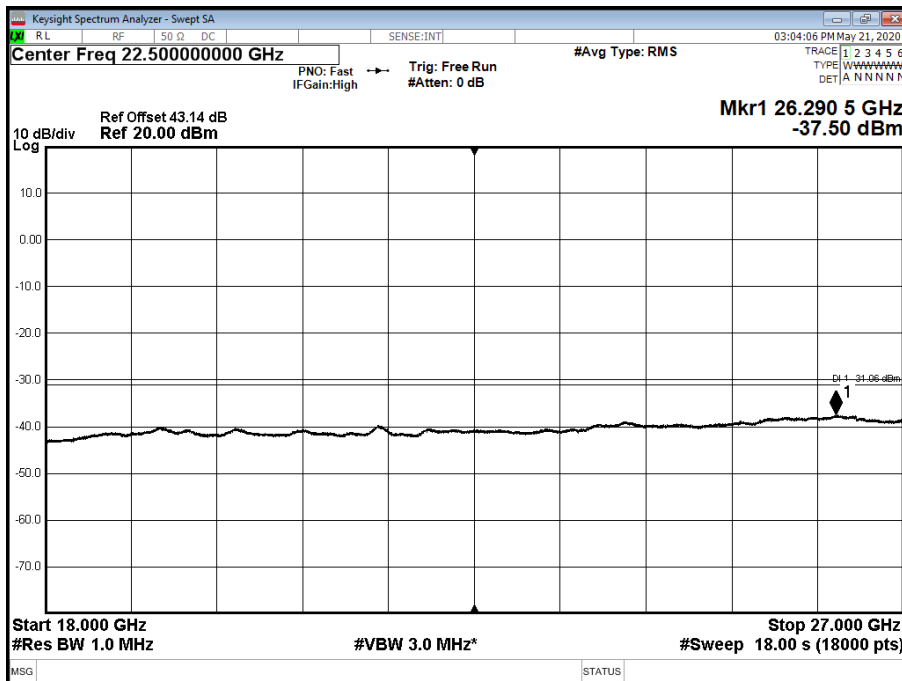




Antenna Port 59 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 3 - Range 9000 to 18000 MHz

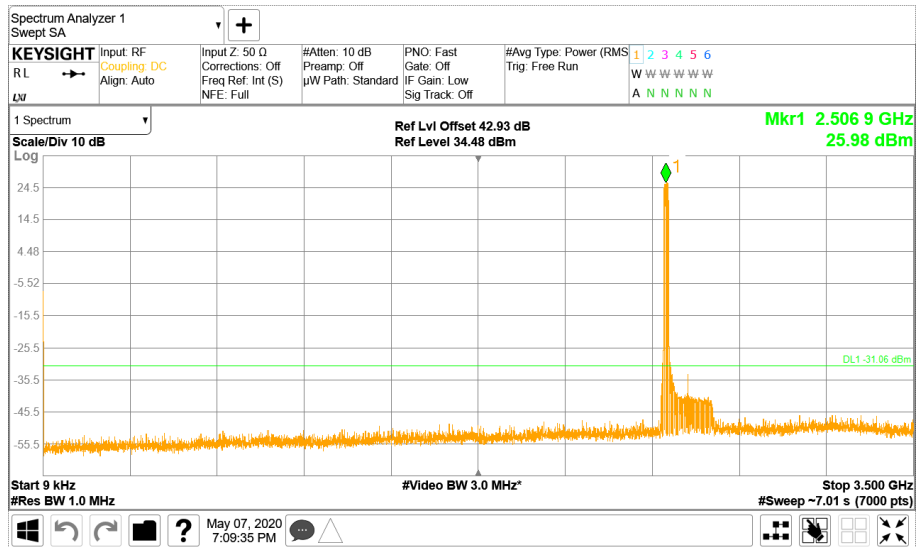


Antenna Port 59 - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 4 - Range 18000 to 27000 MHz

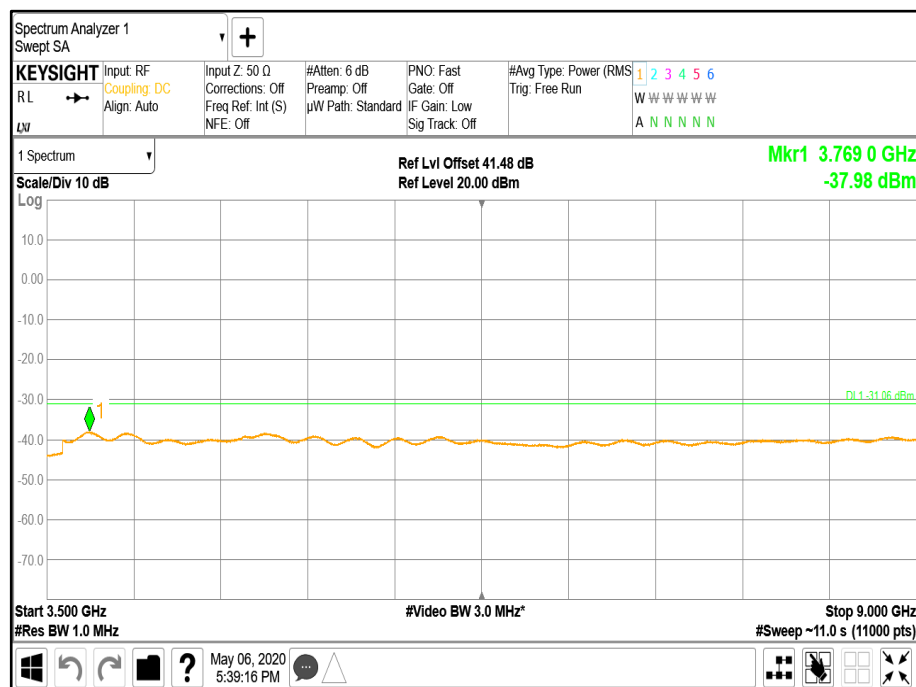




**Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 1 - Range 09 to 3500 MHz**



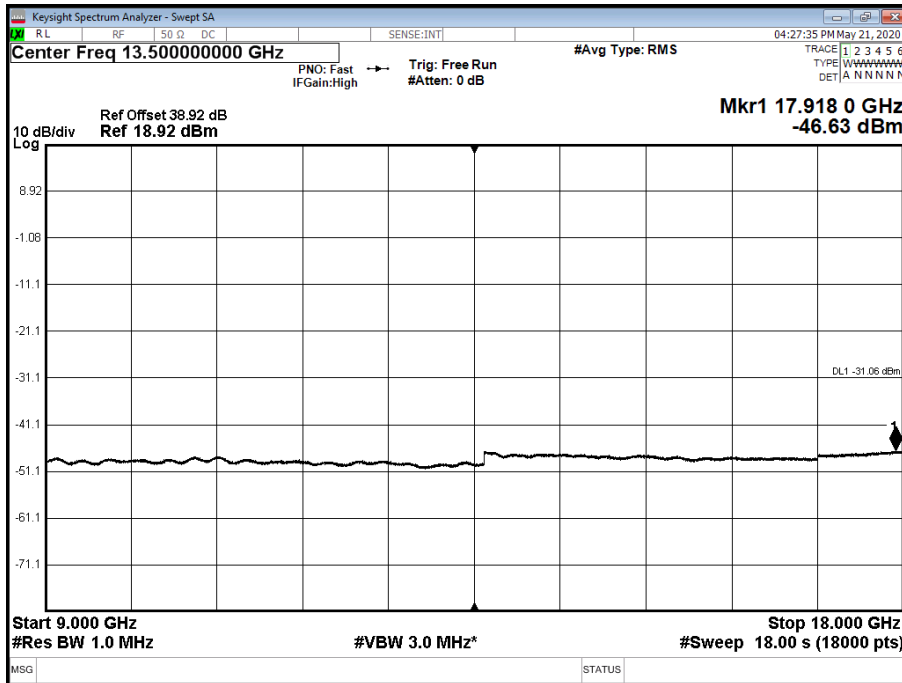
**Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 2 - Range 3500 to 9000 MHz**



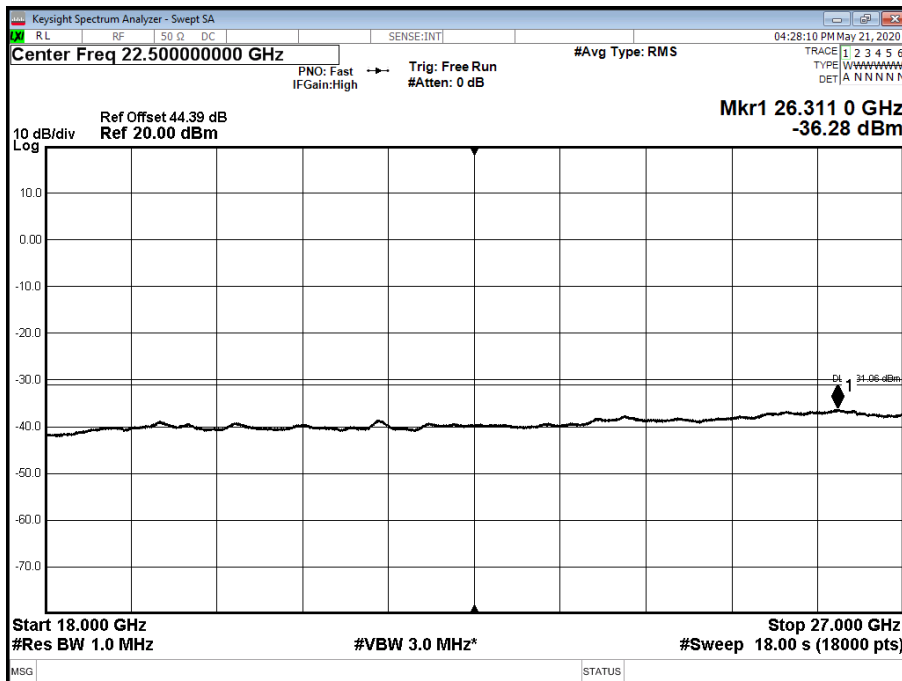




Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 3 - Range 9000 to 18000 MHz

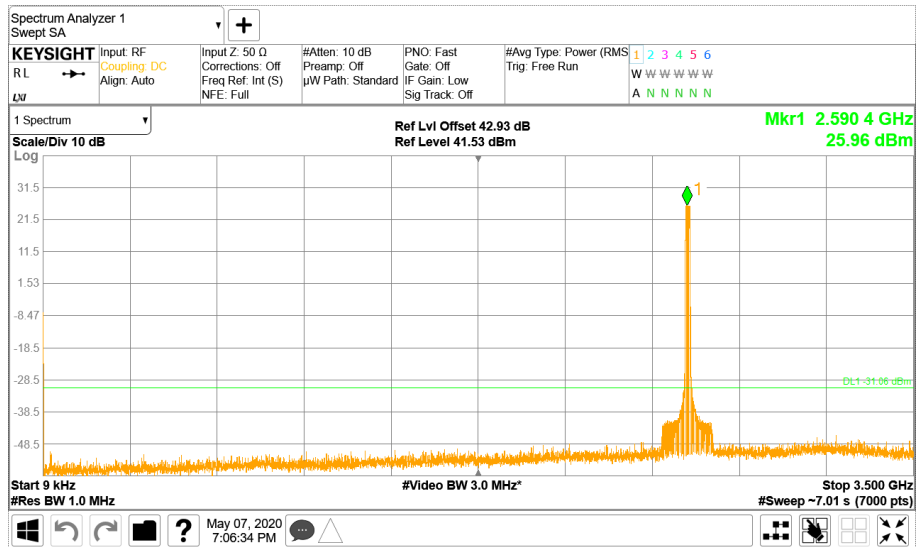


Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 4 - Range 18000 to 27000 MHz

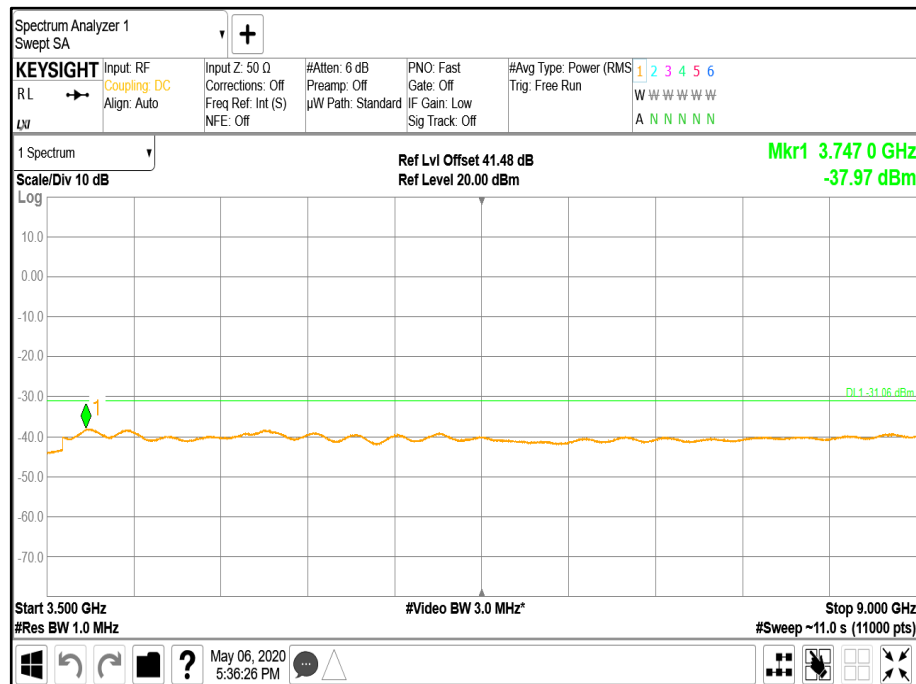




Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position M - Band 1 - Range 09 to 3500 MHz

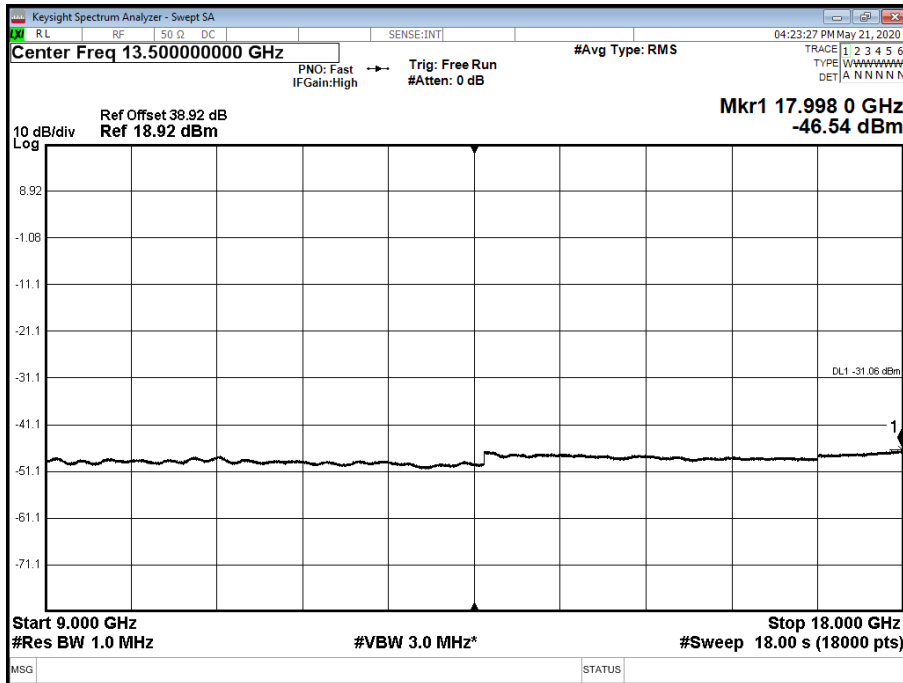


Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position M - Band 2 - Range 3500 to 9000 MHz

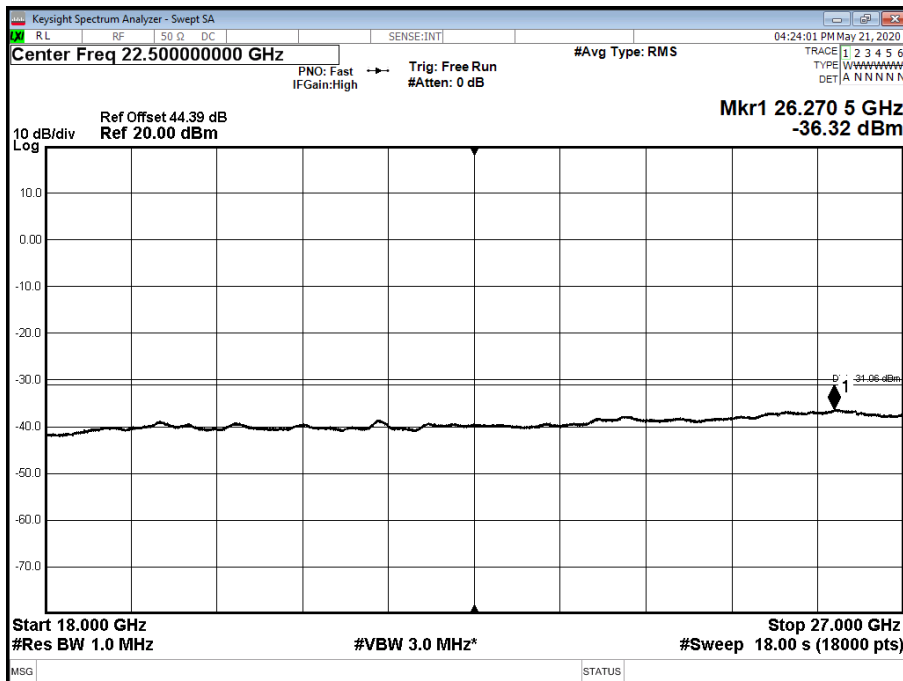




Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position M - Band 3- Range 9000 to 18000 MHz

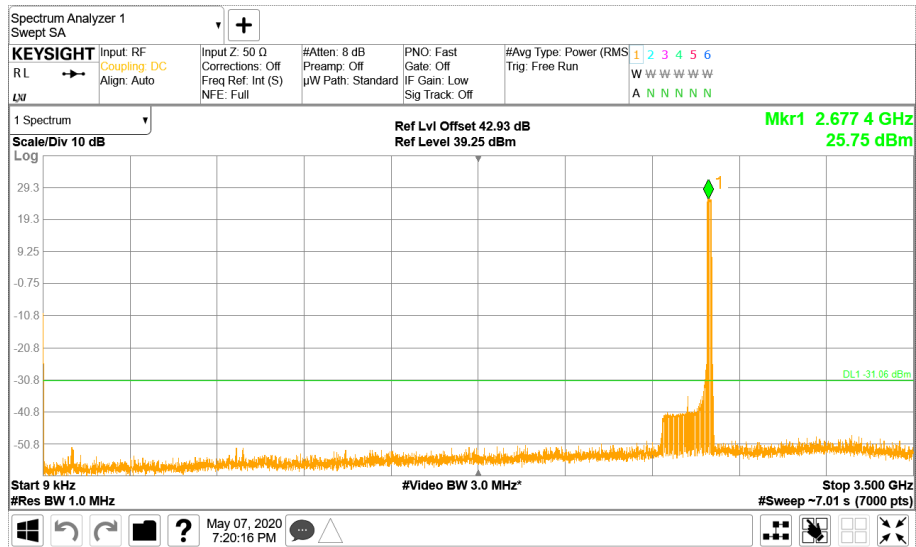


Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position M - Band 4 - Range 18000 to 27000 MHz

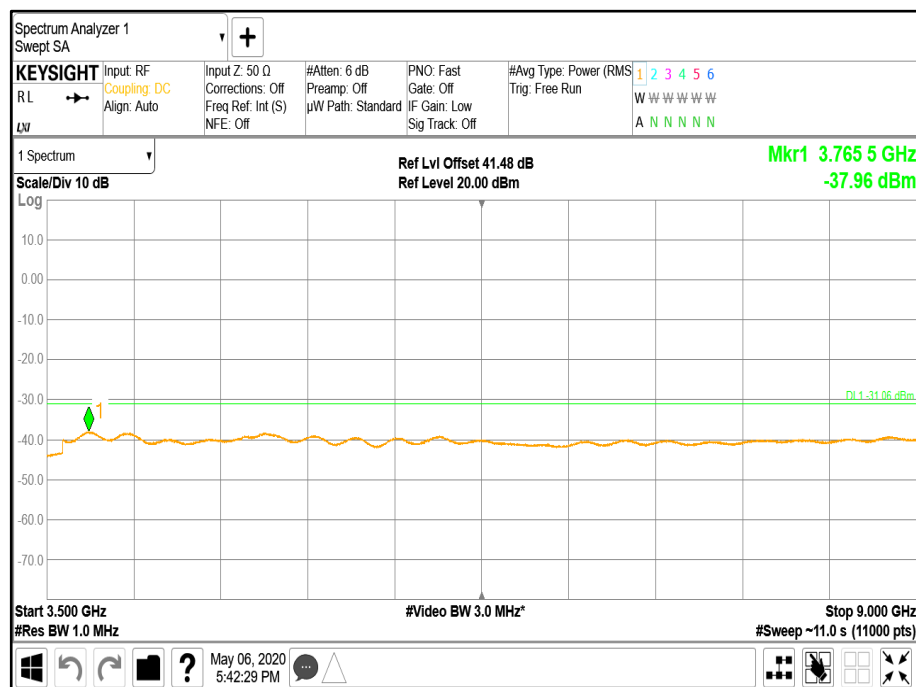




Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position T - Band 1 - Range 09 to 3500 MHz

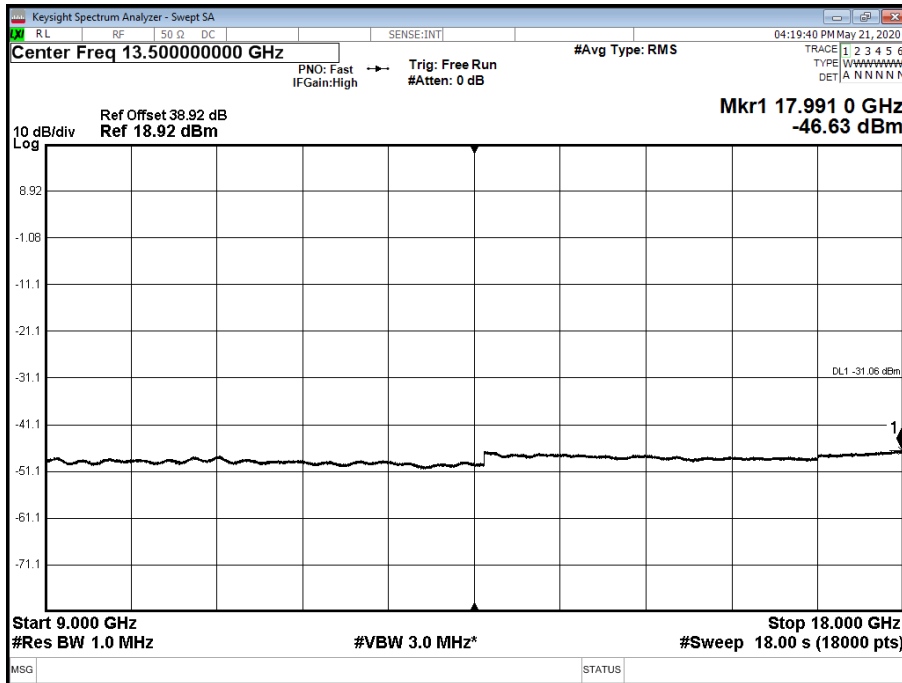


Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position T - Band 2 - Range 3500 to 9000 MHz

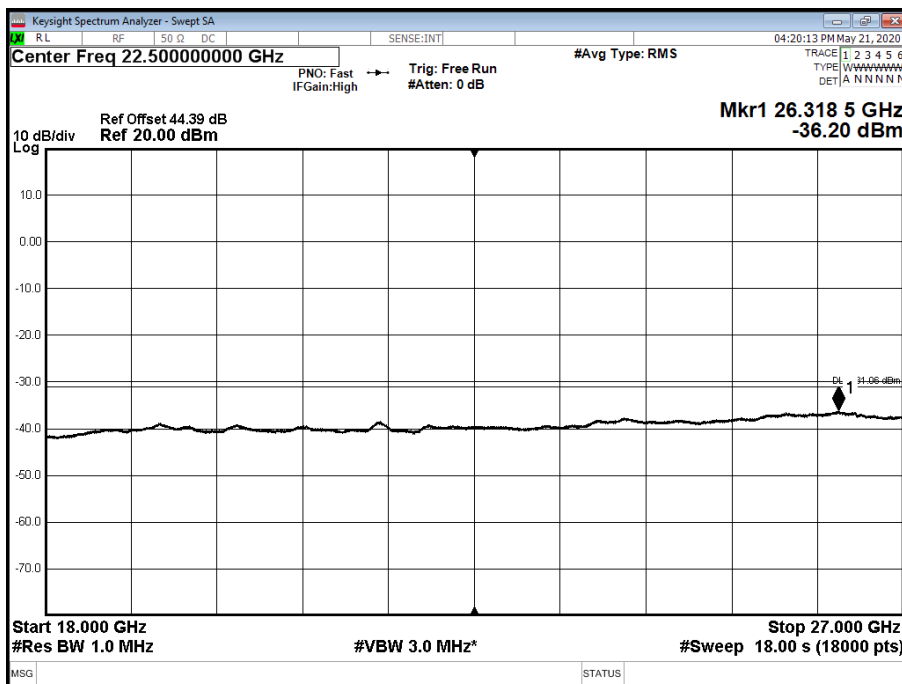




Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position T - Band 3 - Range 9000 to 12000 MHz



Antenna Port 34 - LTE Modulation 64QAM - LTE Carrier Bandwidth 20.0 MHz - Channel Position T - Band 4 - Range 18000 to 27000 MHz

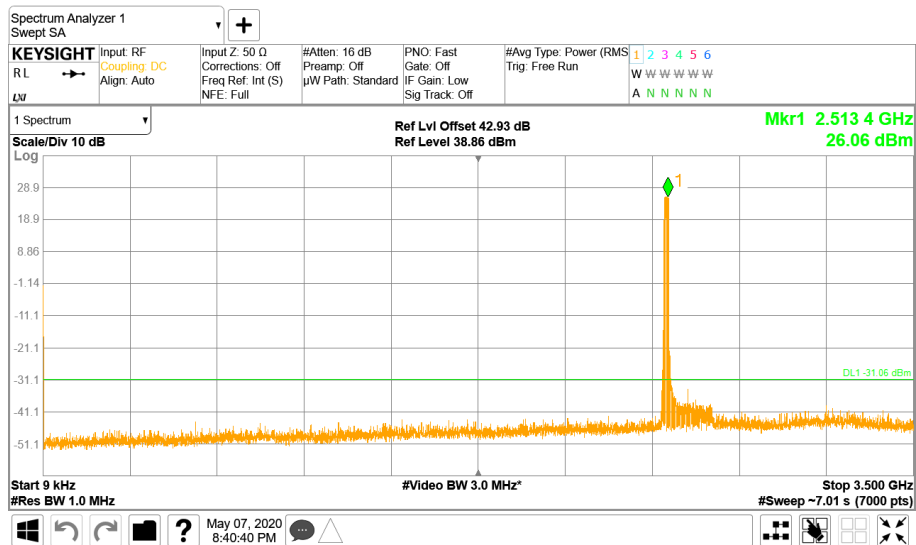




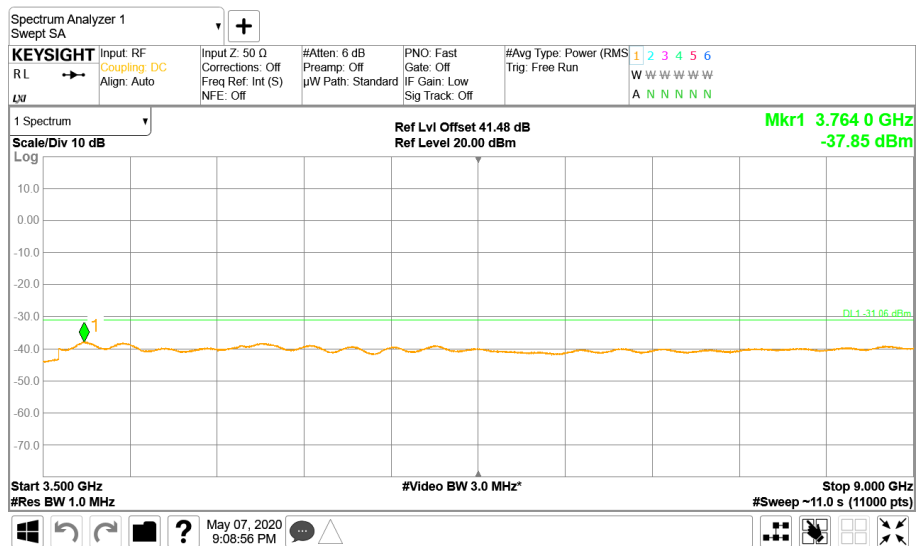
## Configuration 2

Maximum Output Power 36.0 dBm

Antenna Port 21 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 1 - Range 09 to 3500 MHz

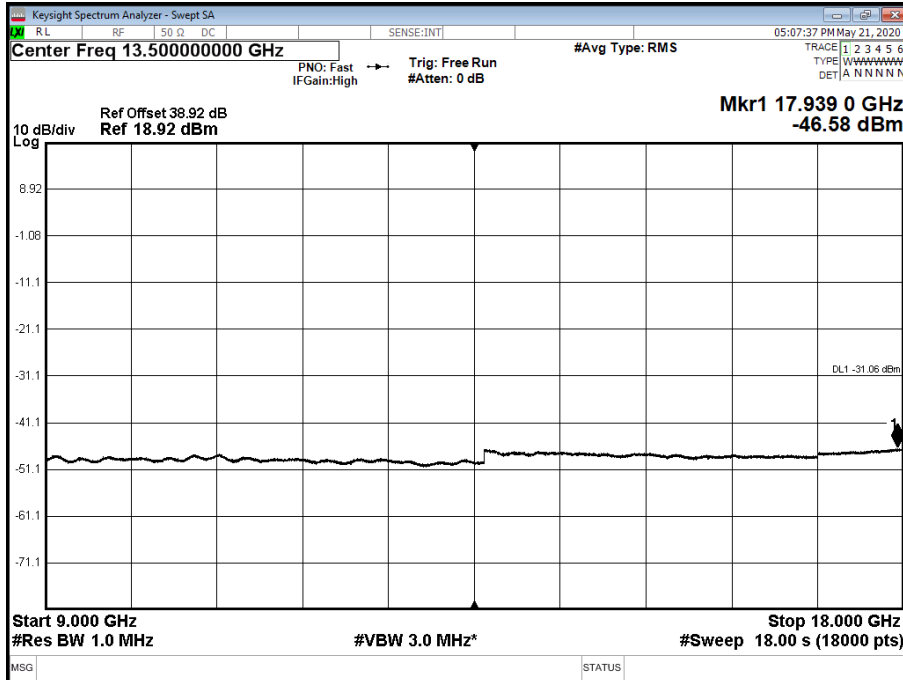


Antenna Port 21 - LTE Modulation 64QAM – 2x LTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 2 - Range 3500 to 9000 MHz

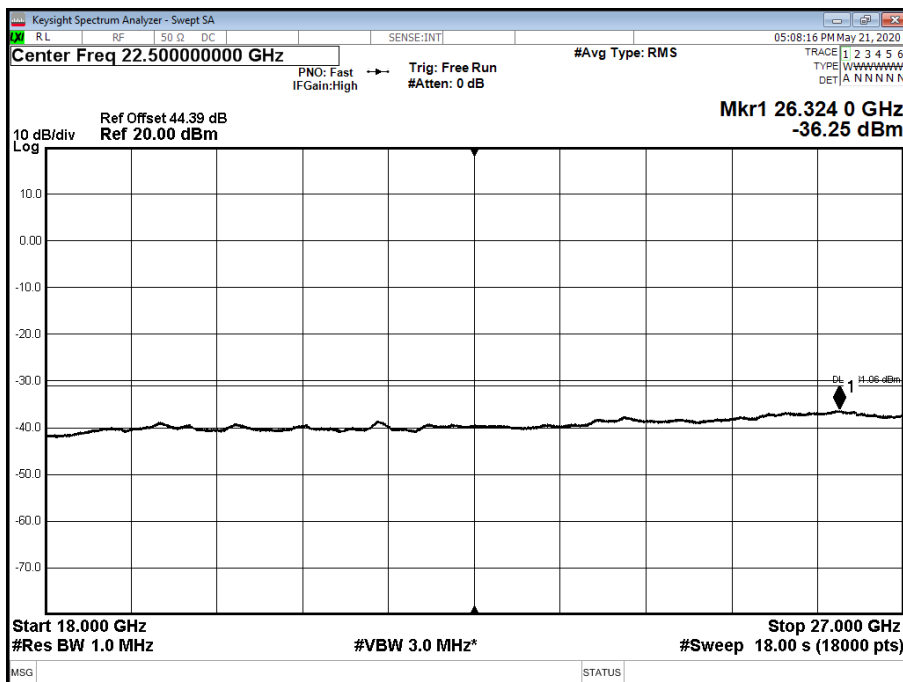




Antenna Port 21 - LTE Modulation 64QAM – 2x LTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 3- Range 9000 to 18000 MHz

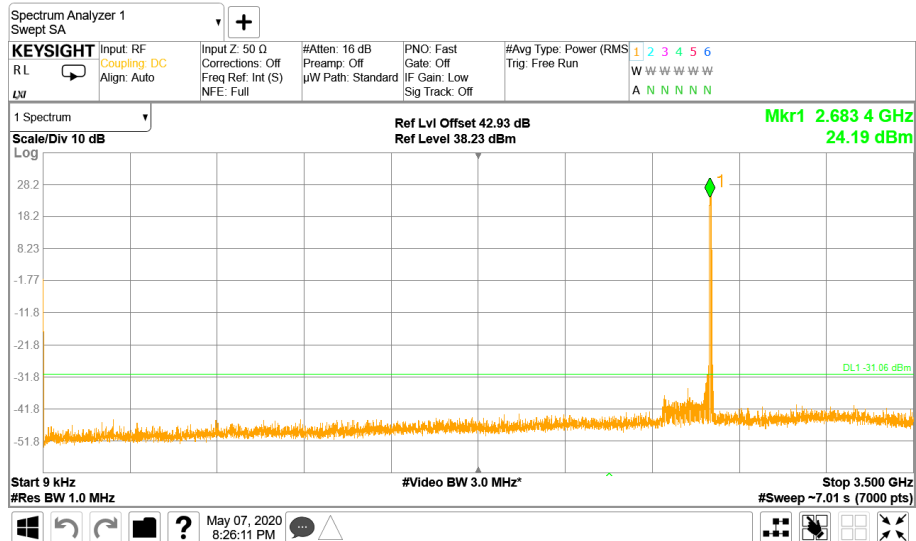


Antenna Port 21 - LTE Modulation 64QAM – 2x LTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 4 - Range 18000 to 27000 MHz

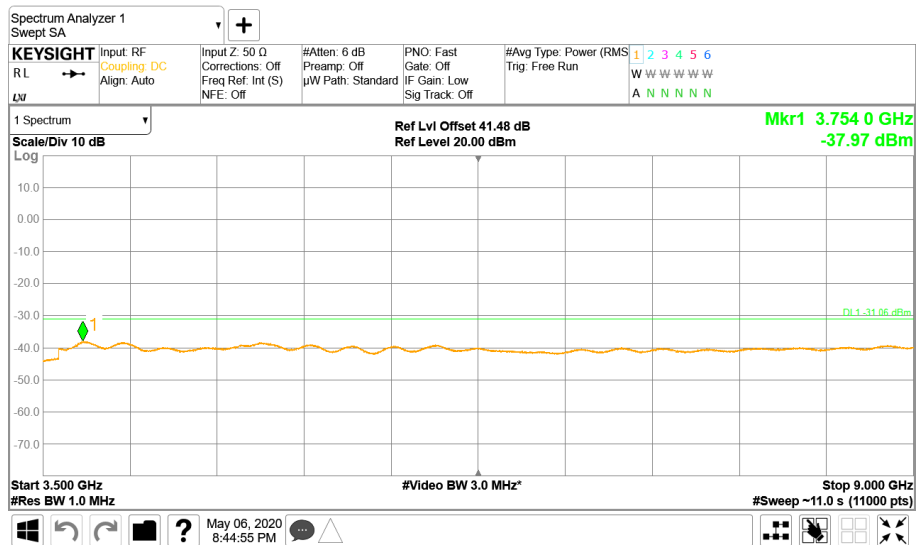




**Antenna Port 34 - LTE Modulation 64QAM – 2x LTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 1 - Range 09 to 3500 MHz**



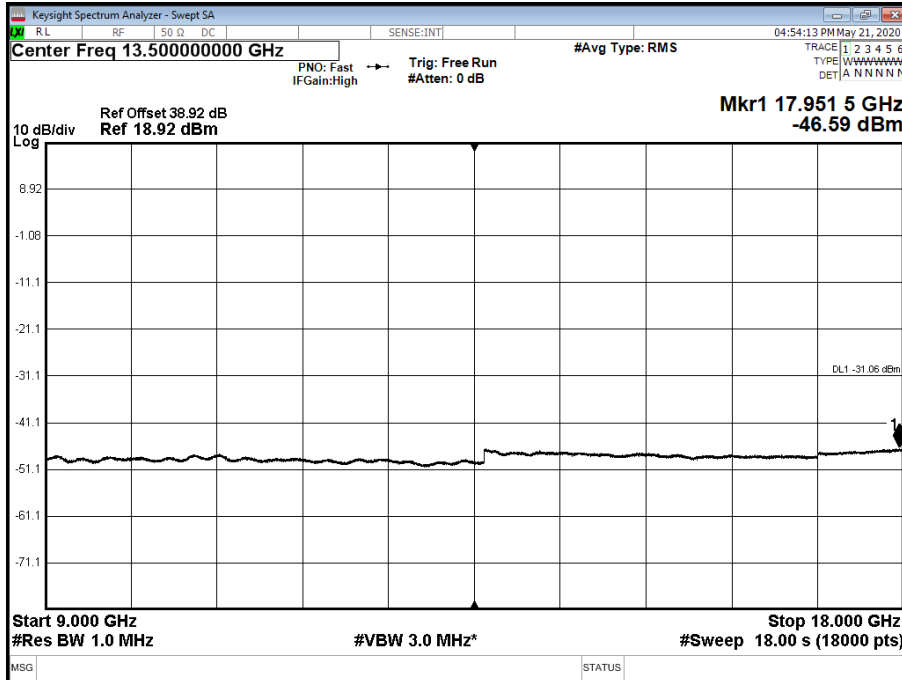
**Antenna Port 34 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 2 - Range 3500 to 9000 MHz**



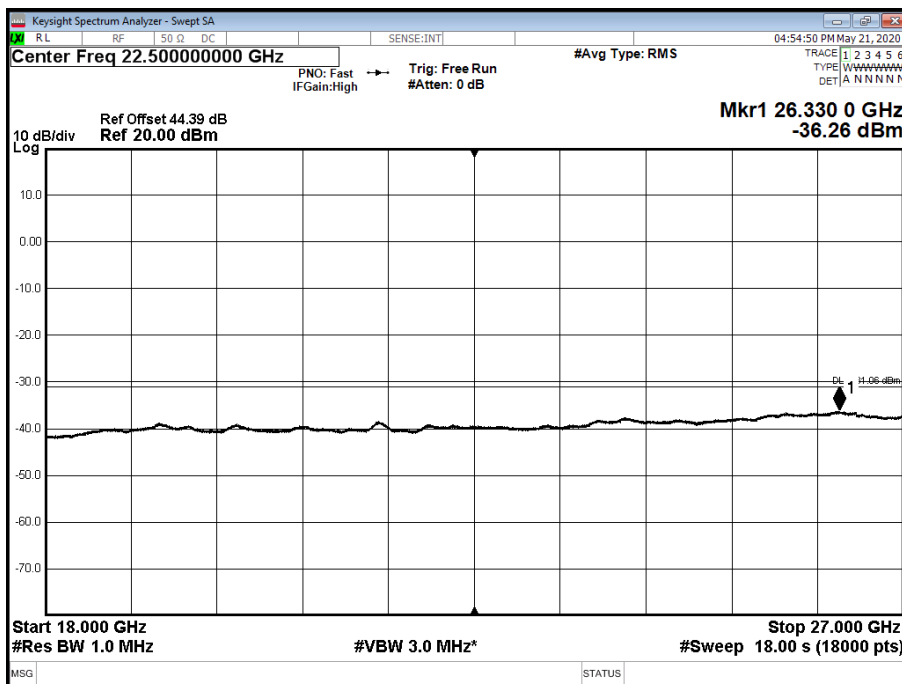




Antenna Port 34 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 3 - Range 9000 to 18000 MHz

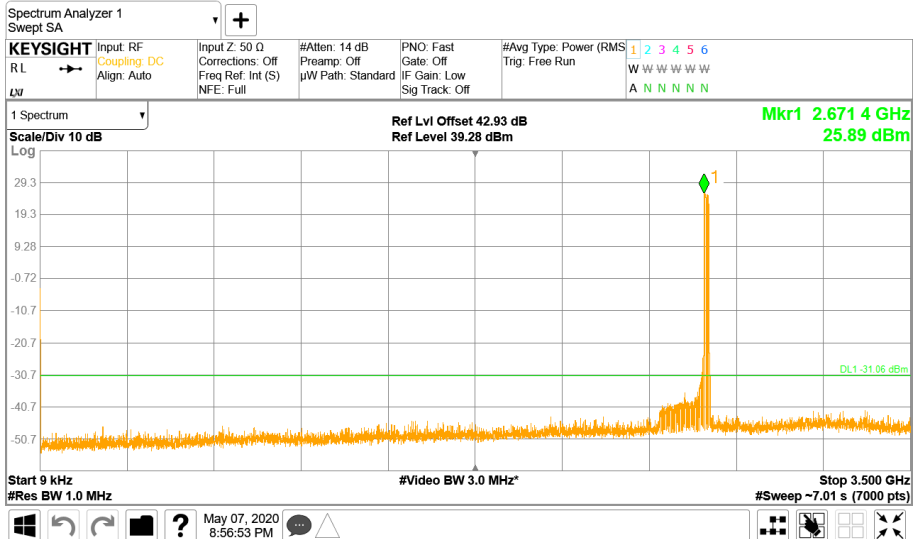


Antenna Port 34 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 4- Range 18000 to 27000 MHz

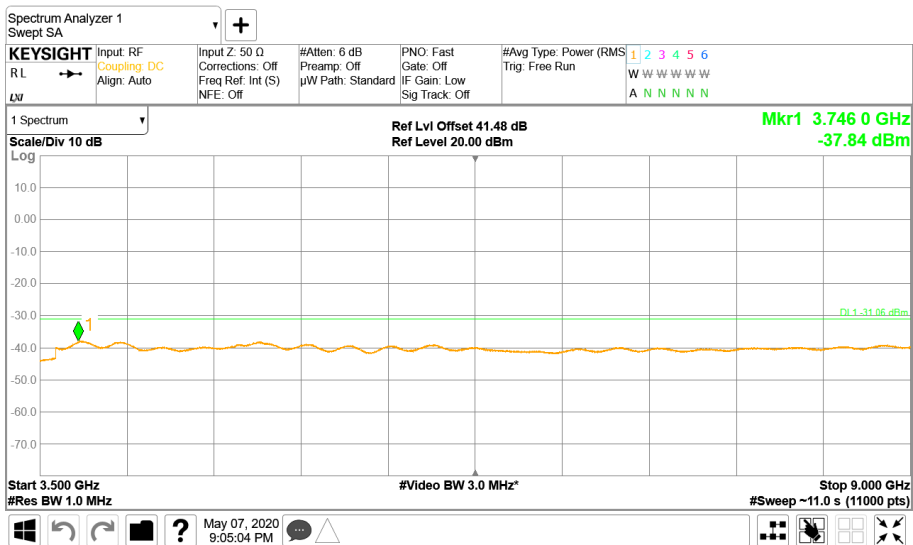




Antenna Port 59 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 1 - Range 09 to 3500 MHz

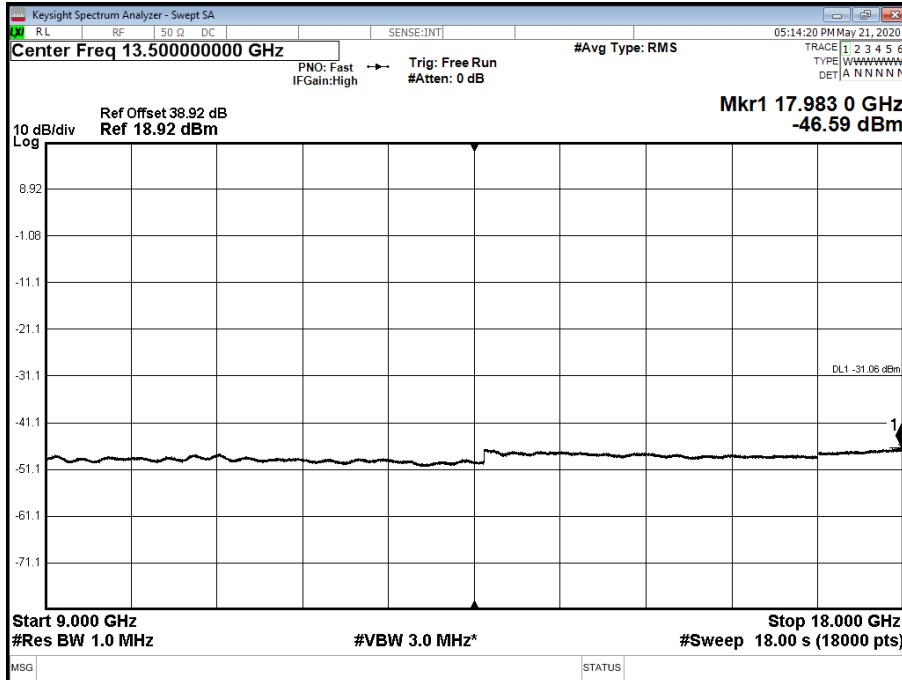


Antenna Port 59 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 2 - Range 3500 to 9000 MHz

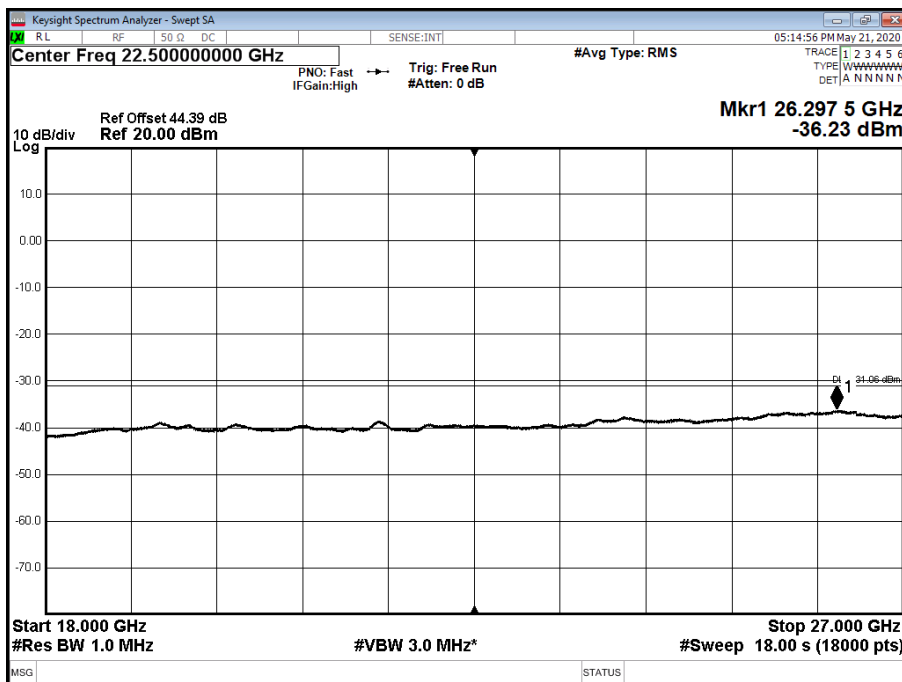




Antenna Port 59 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 3 - Range 9000 to 18000 MHz

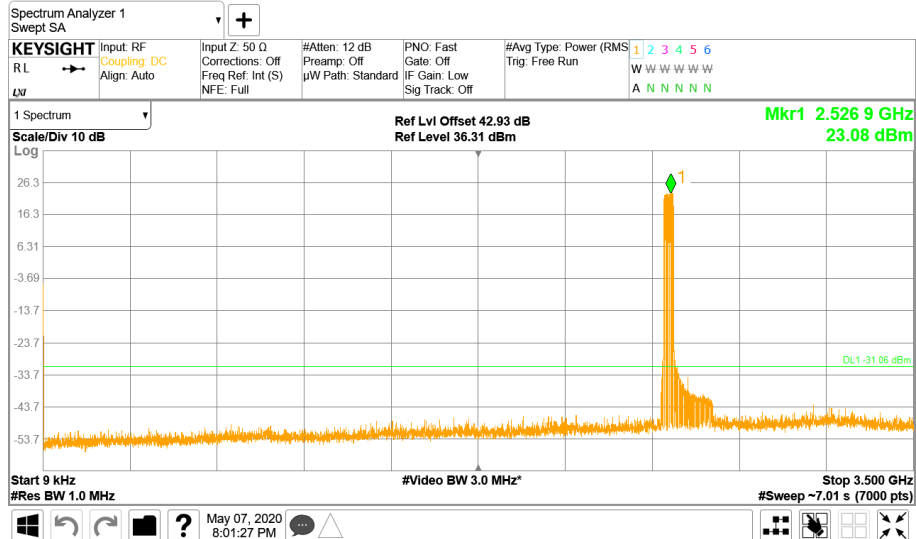


Antenna Port 59 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 4 - Range 18000 to 27000 MHz

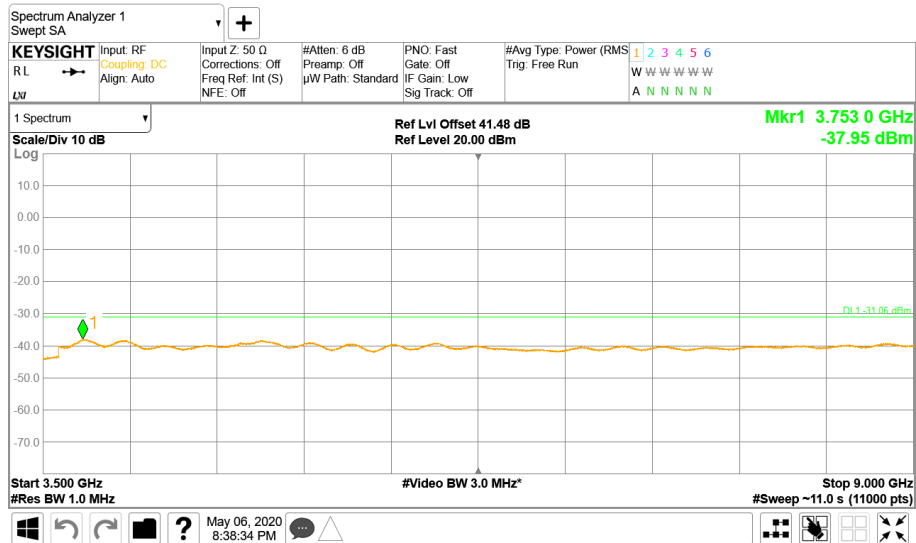




**Antenna Port 21 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 1 - Range 09 to 3500 MHz**

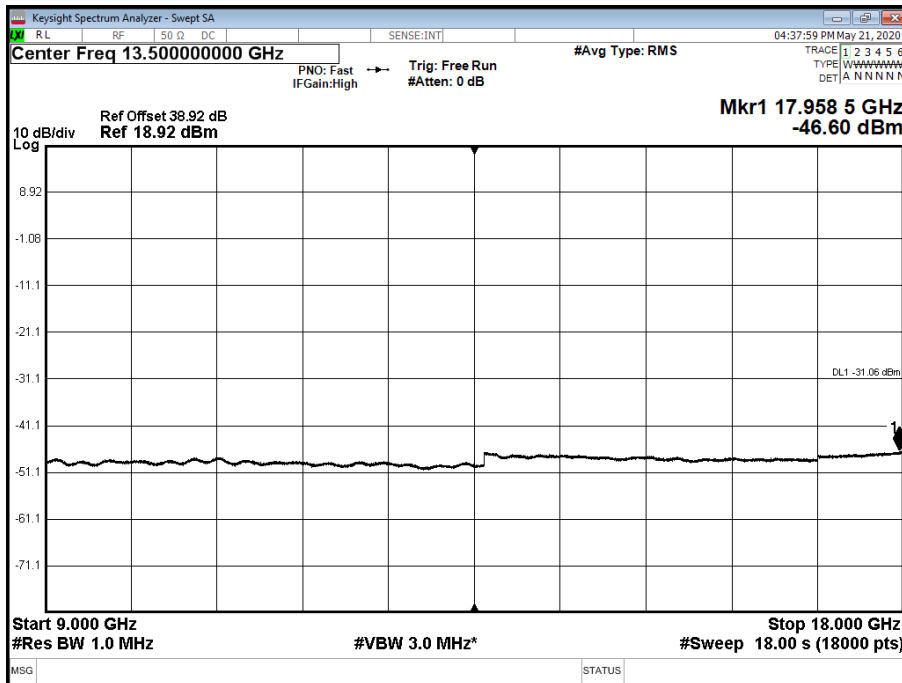


**Antenna Port 21 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 2 - Range 3500 to 9000 MHz**

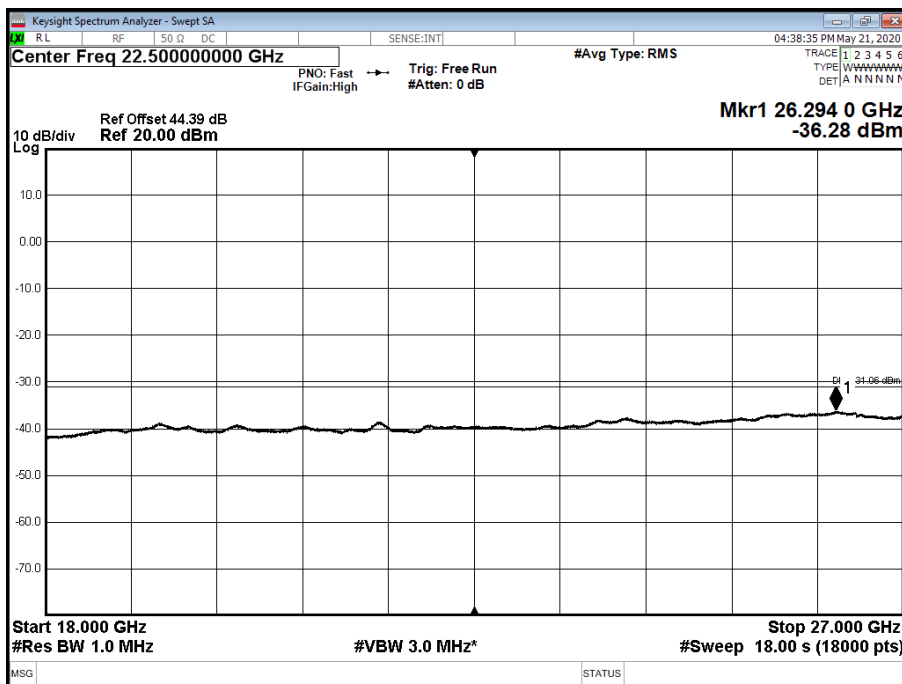




Antenna Port 21 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 3 - Range 9000 to 18000 MHz

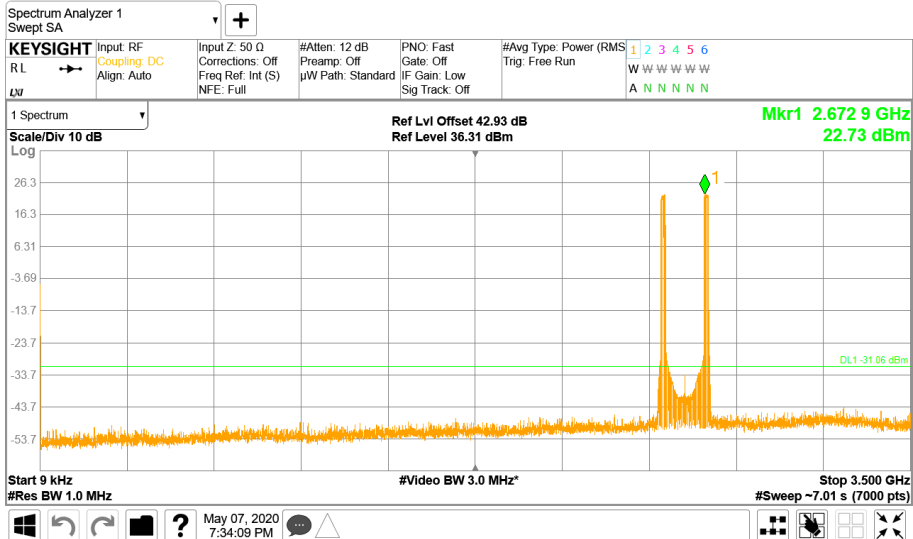


Antenna Port 21 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 4 - Range 18000 to 27000 MHz

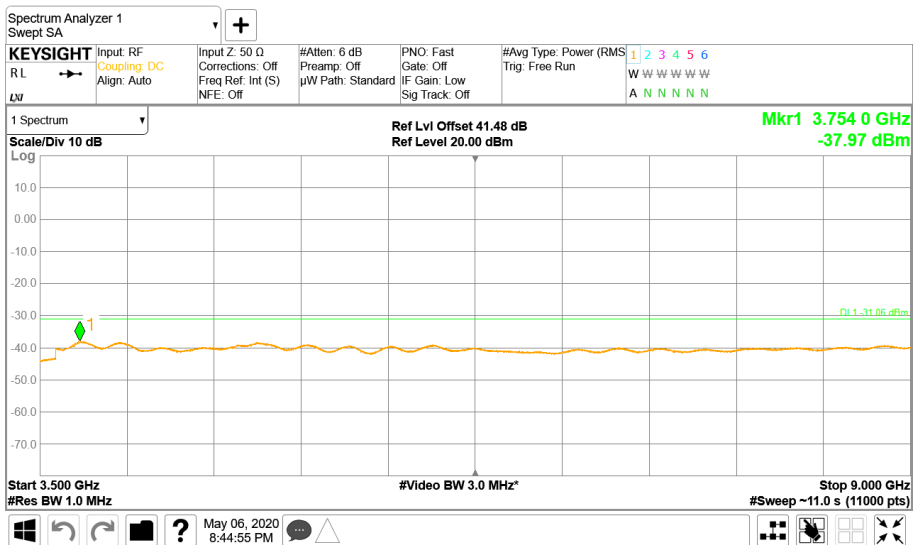




Antenna Port 34 - LTE Modulation 64QAM – 2xLTE Carrier Bandwidth 20.0 MHz - Channel Position M - Band 1 - Range 09 to 3500 MHz

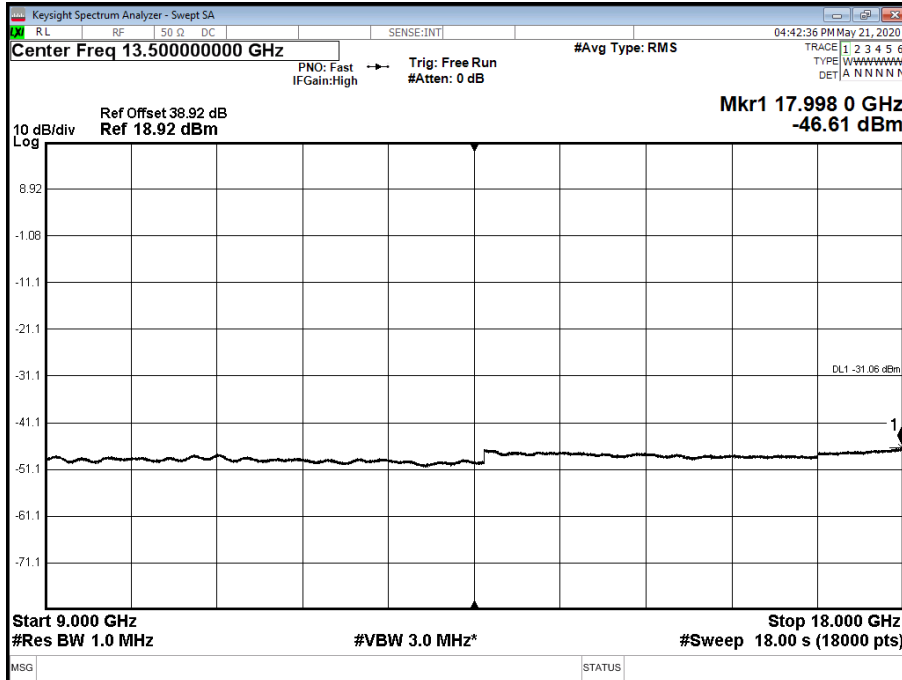


Antenna Port 34 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position M – Band 2 - Range 3500 to 9000 MHz

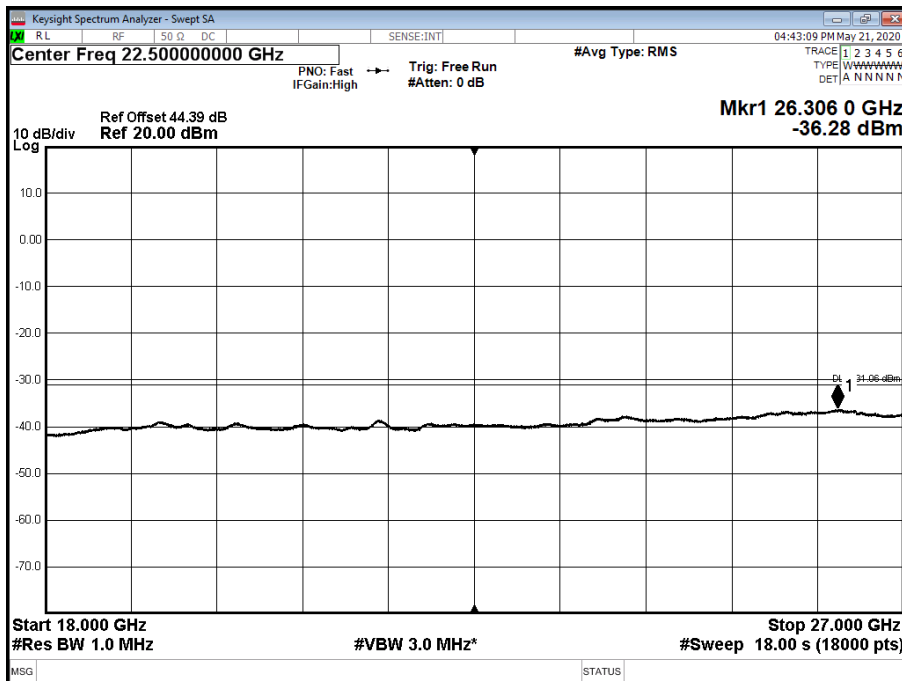




Antenna Port 34 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position M – Band 3- Range 9000 to 18000 MHz

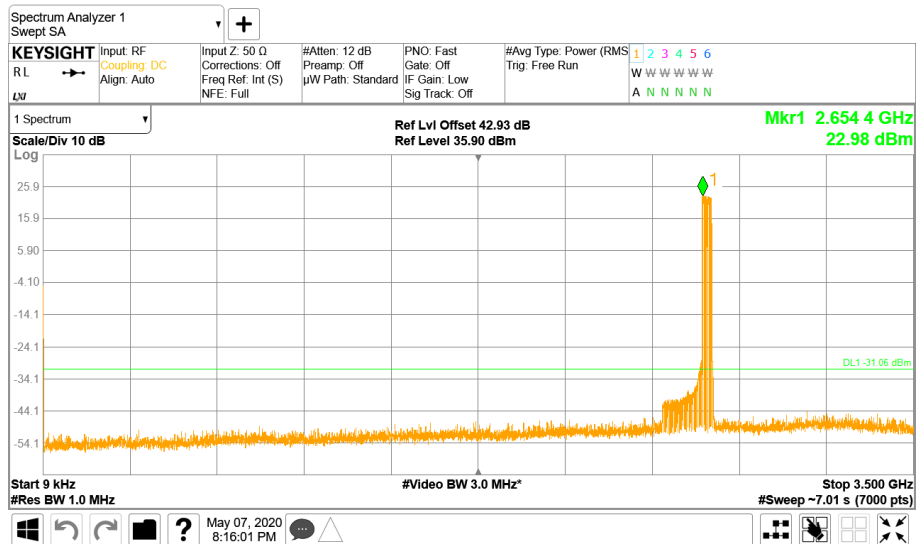


Antenna Port 34 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position M – Band 4 - Range 18000 to 27000 MHz

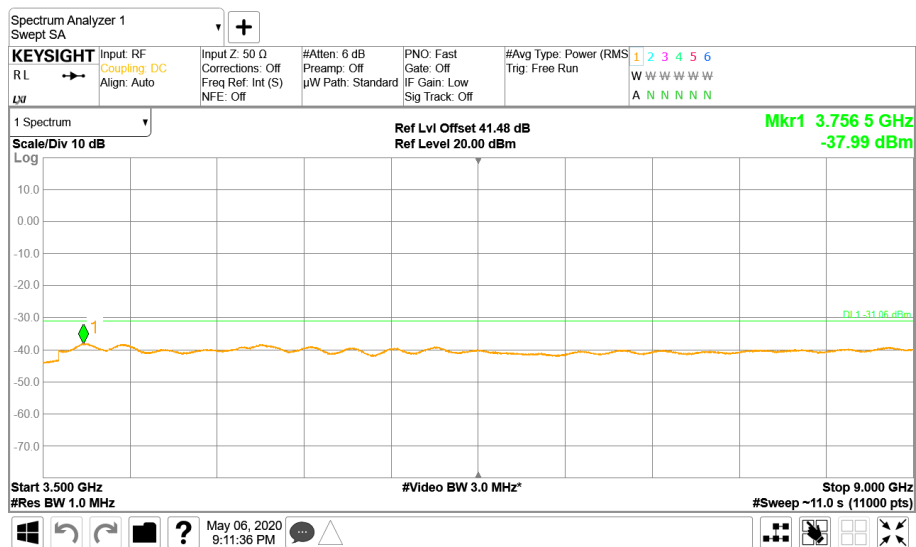




Antenna Port 59 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position T - Band 1 - Range 09 to 3500 MHz



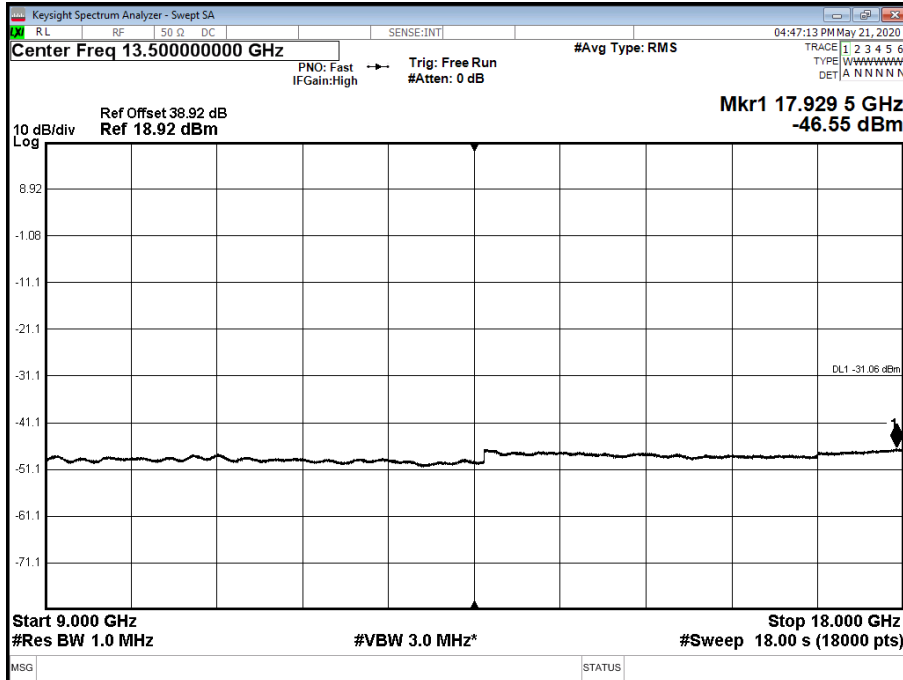
Antenna Port 59 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position T -- Band 2 - Range 3500 to 9000 MHz



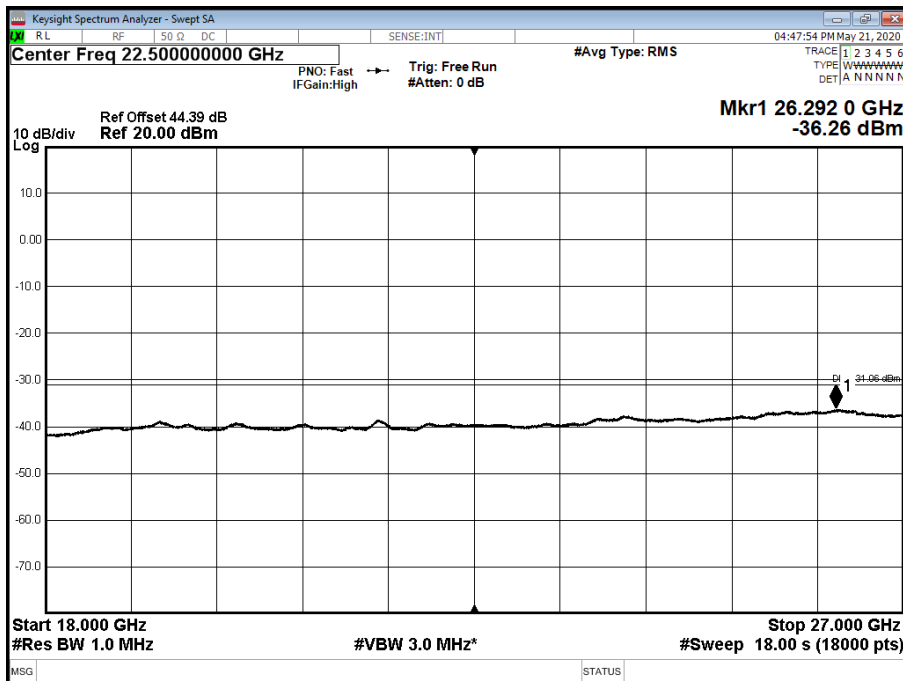




Antenna Port 59 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position T -- Band 3 - Range 9000 to 18000 MHz



Antenna Port 59 - LTE Modulation 64QAM -2x LTE Carrier Bandwidth 20.0 MHz - Channel Position T -- Band 4 - Range 18000 to 27000 MHz

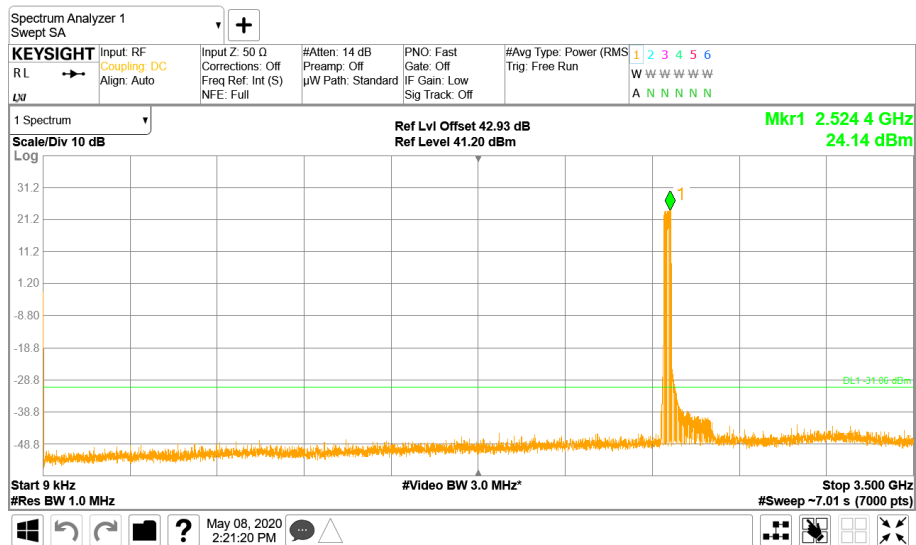




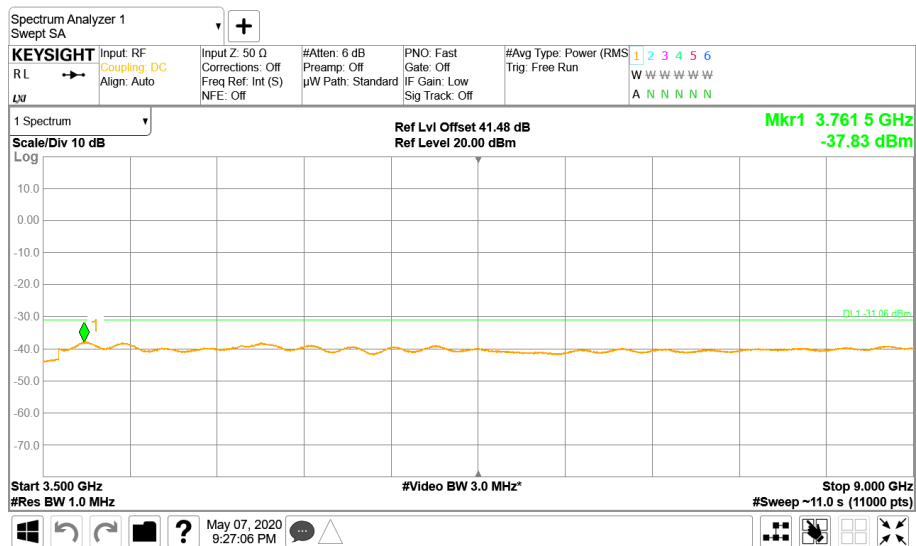
### Configuration 3

Maximum Output Power 36.0 dBm

Antenna Port 21 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 1 - Range 09 to 3500 MHz

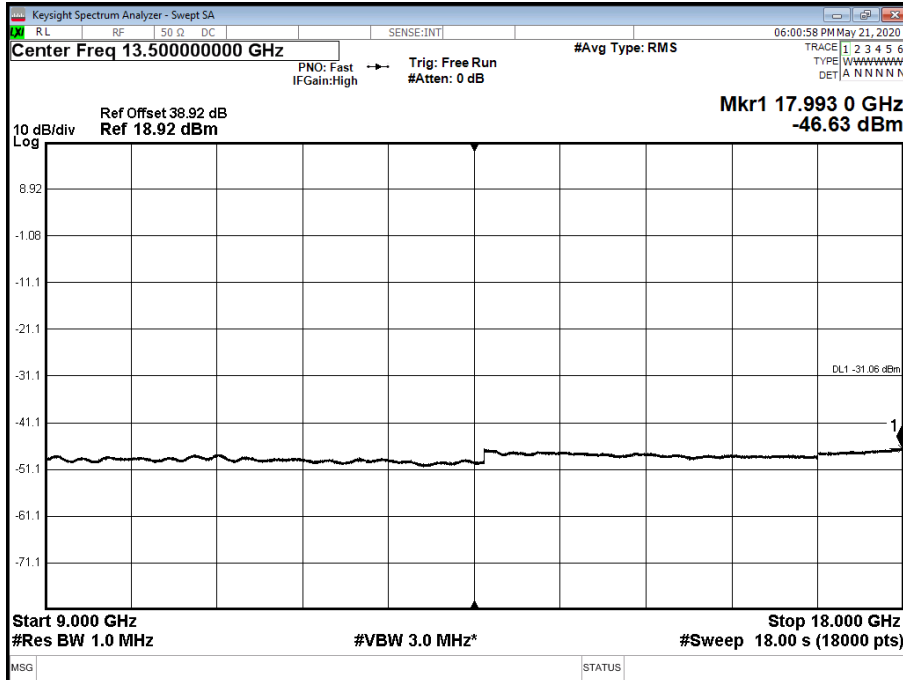


Antenna Port 21 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 2 - Range 3500 to 9000 MHz

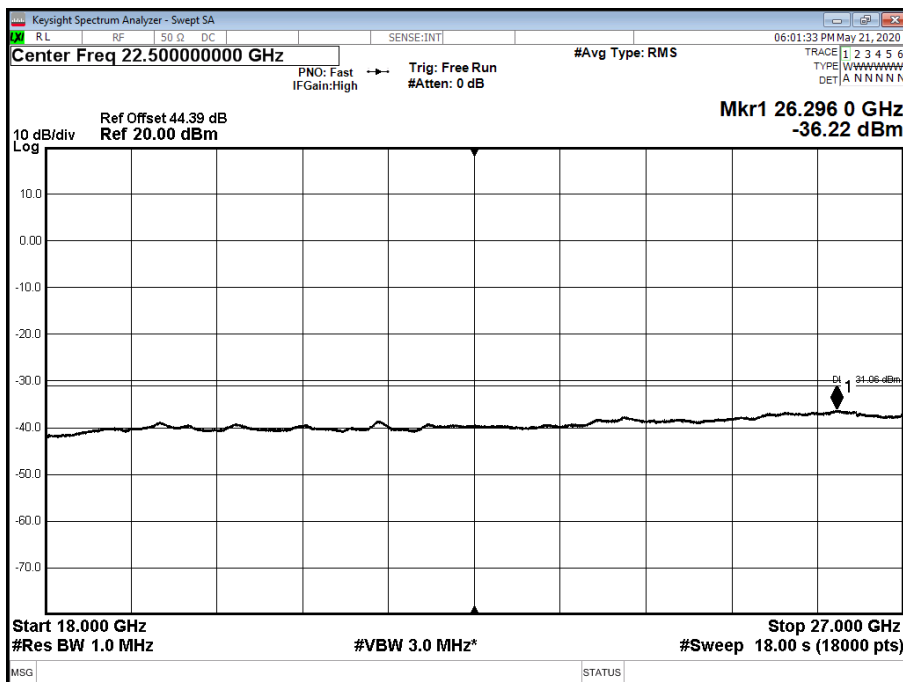




Antenna Port 21 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 3 - Range 9000 to 18000 MHz

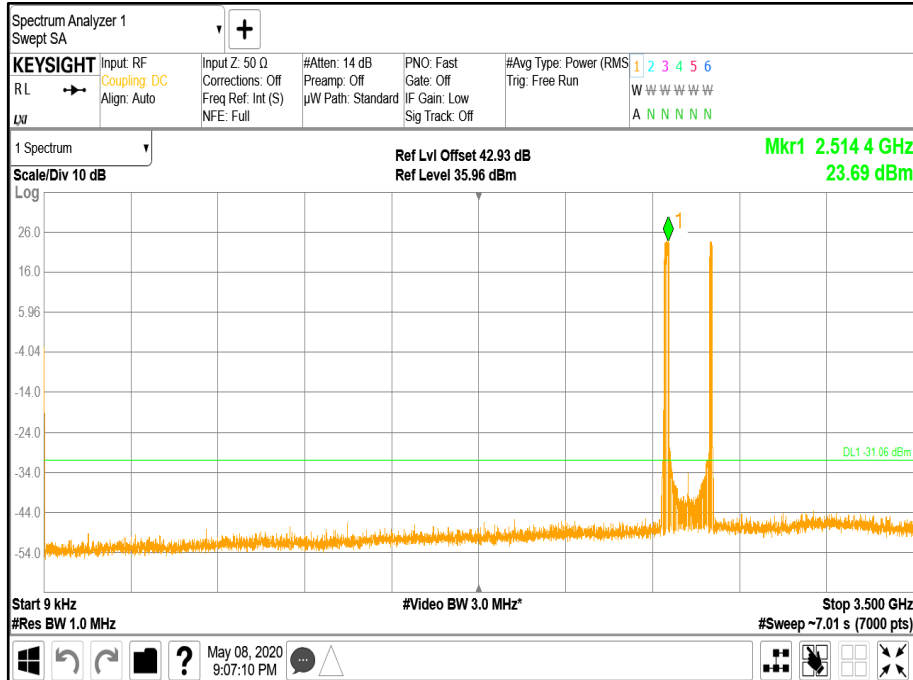


Antenna Port 21 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 10.0 MHz - Channel Position B - Band 4 - Range 18000 to 27000 MHz

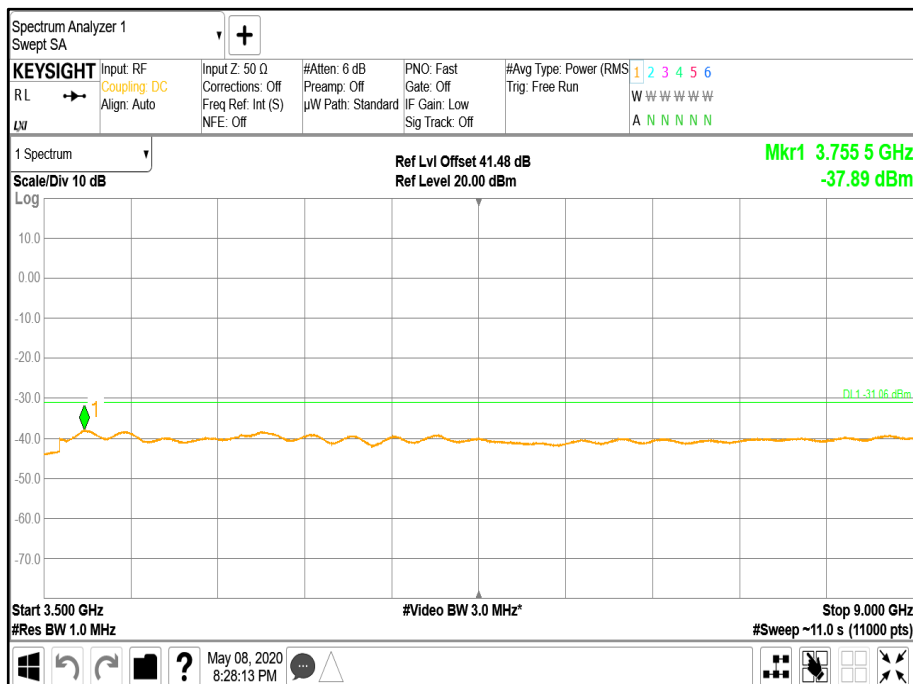




Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 1 - Range 09 to 3500 MHz

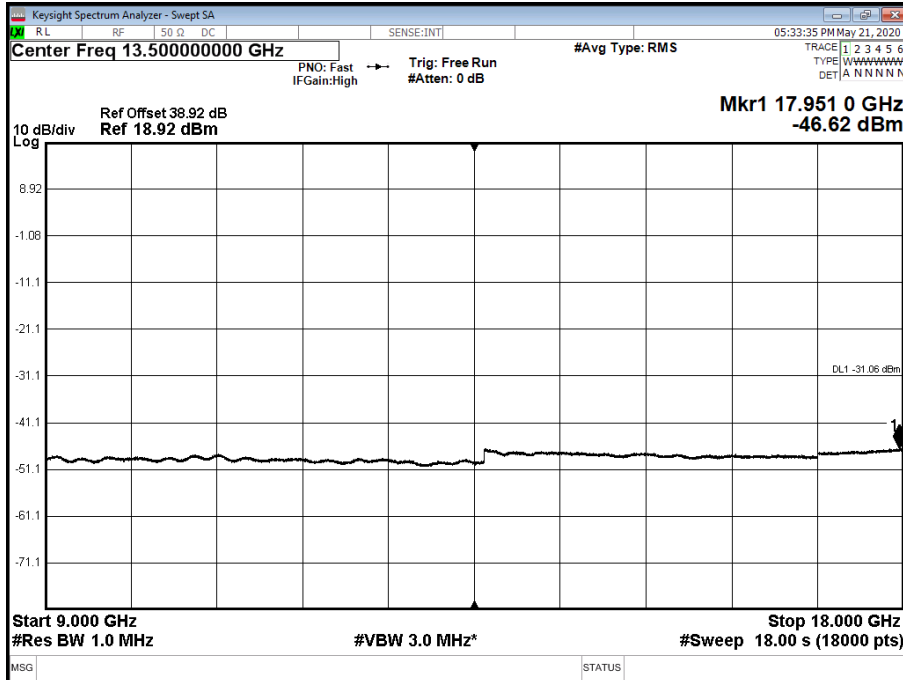


Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 2 - Range 3500 to 9000 MHz

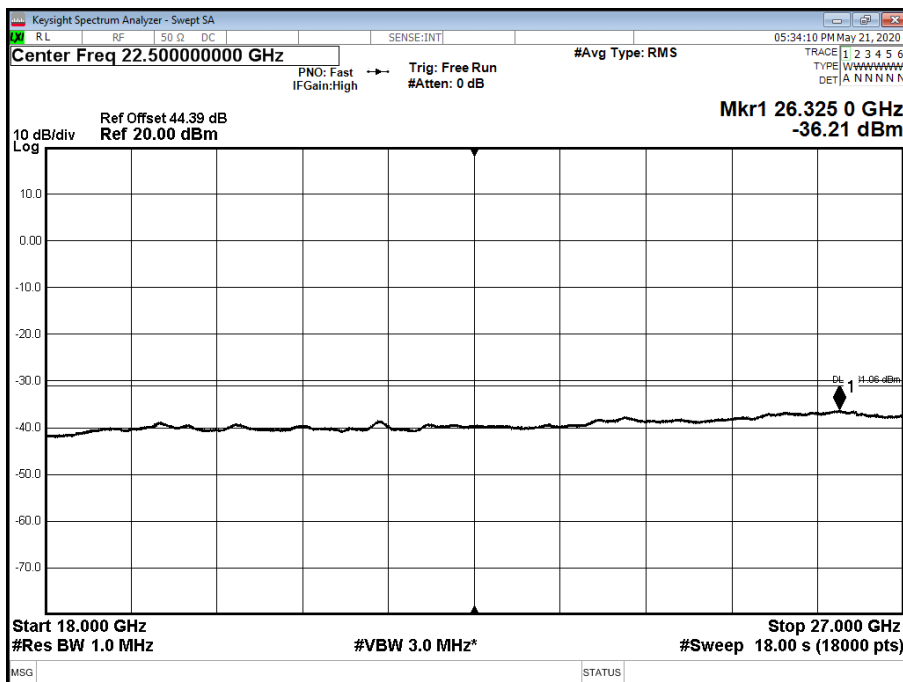




Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 3 - Range 9000 to 18000 MHz

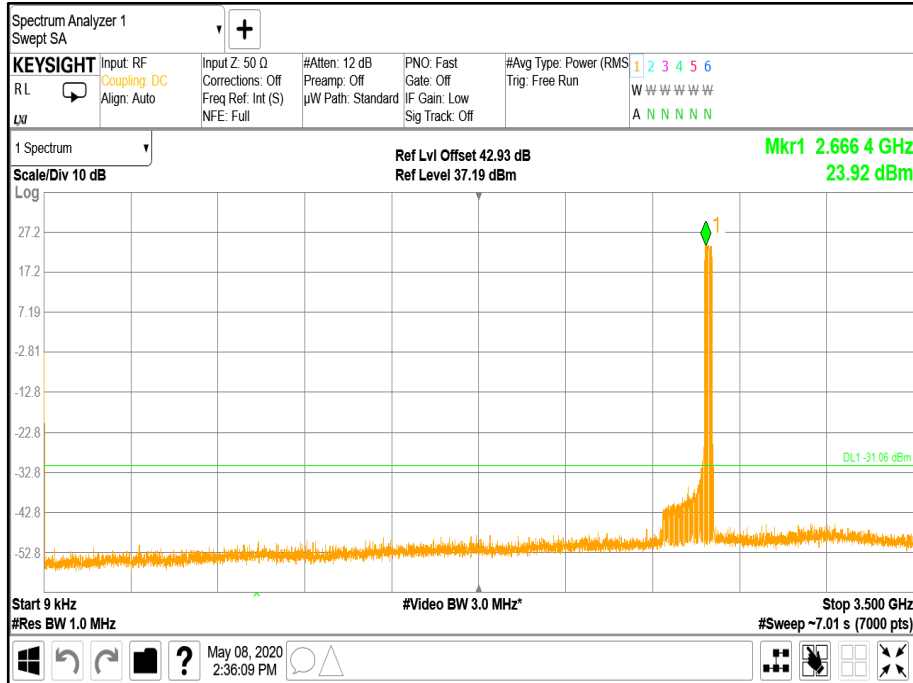


Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 10.0 MHz - Channel Position M - Band 4 - Range 18000 to 27000 MHz

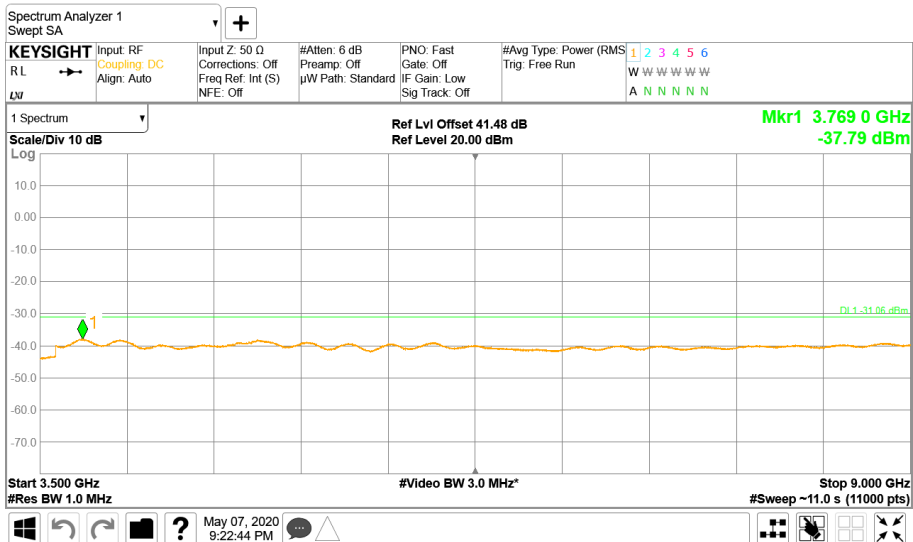




Antenna Port 59 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 1 - Range 09 to 3500 MHz

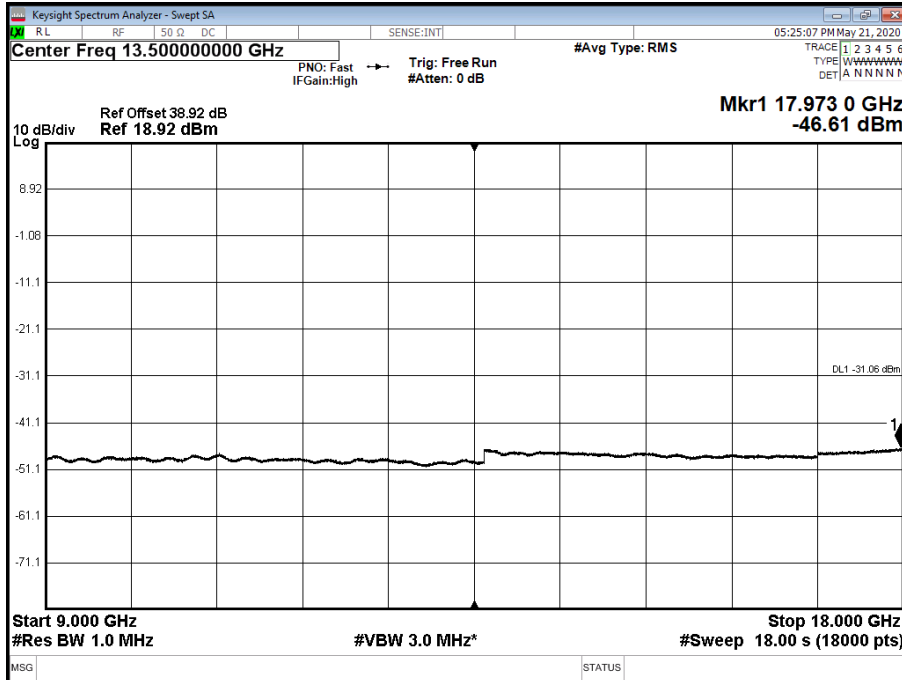


Antenna Port 59 - LTE Modulation 64QAM -3x LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 2 - Range 3500 to 9000 MHz

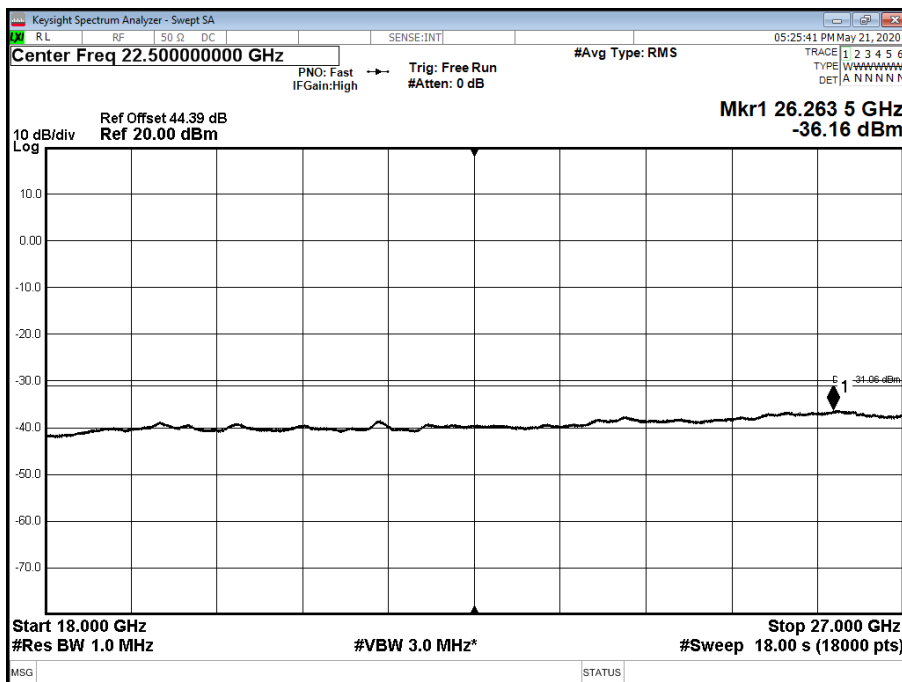




Antenna Port 59 - LTE Modulation 64QAM -3x LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 3 – Range 9000 to 18000 MHz

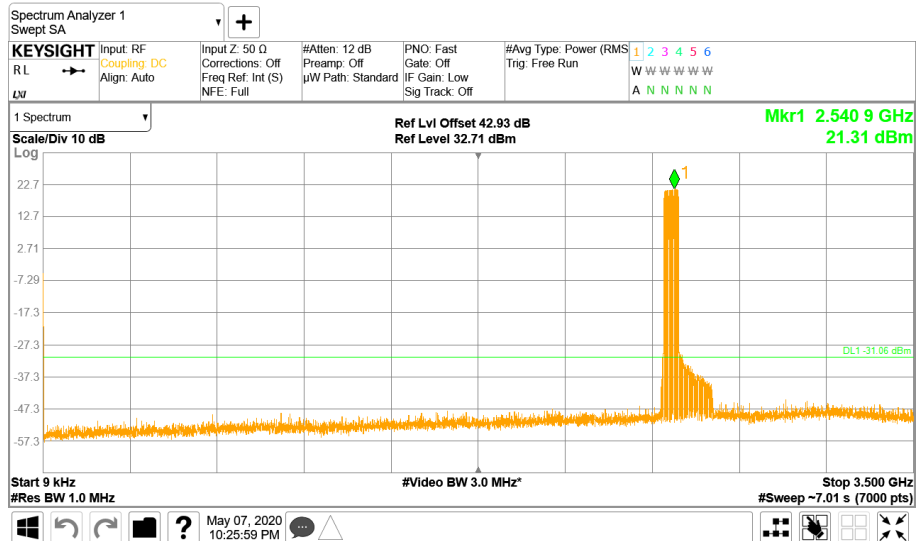


Antenna Port 59 - LTE Modulation 64QAM -3x LTE Carrier Bandwidth 10.0 MHz - Channel Position T - Band 4 - Range 18000 to 27000 MHz

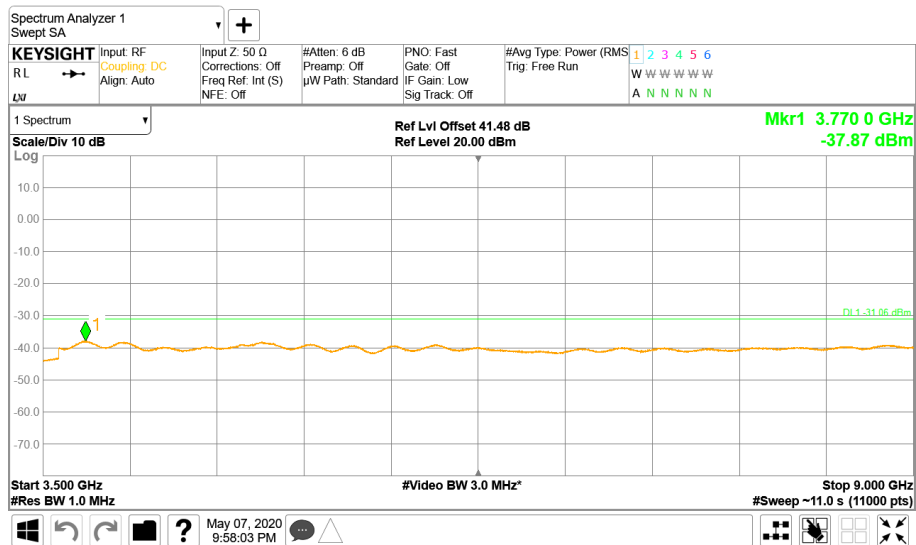




**Antenna Port 34 - LTE Modulation 64QAM -3x LTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 1 - Range 09 to 3500 MHz**



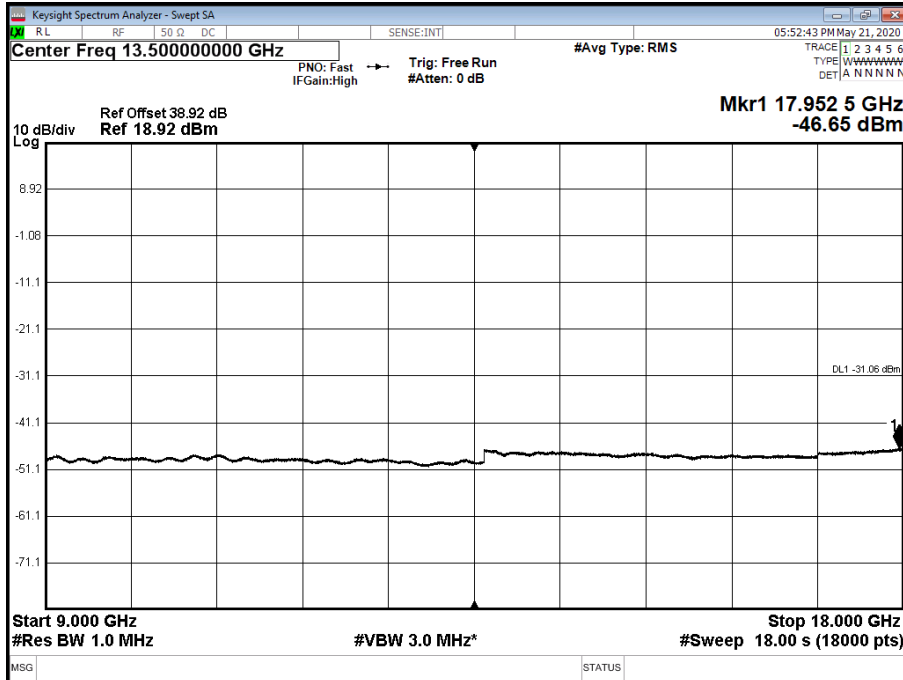
**Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 2 - Range 3500 to 9000 MHz**



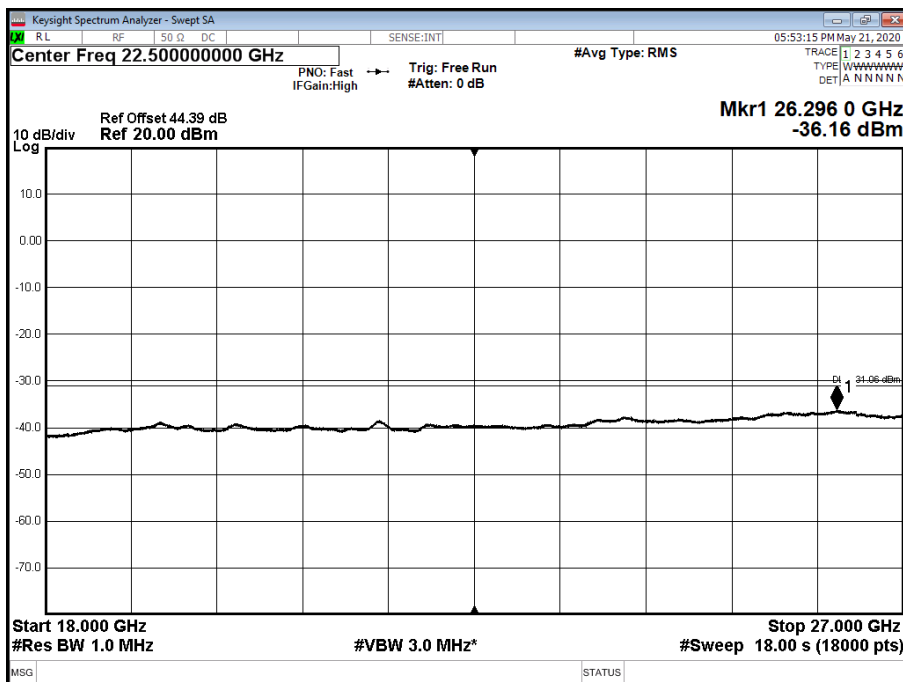




Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 3 - Range 9000 to 18000 MHz

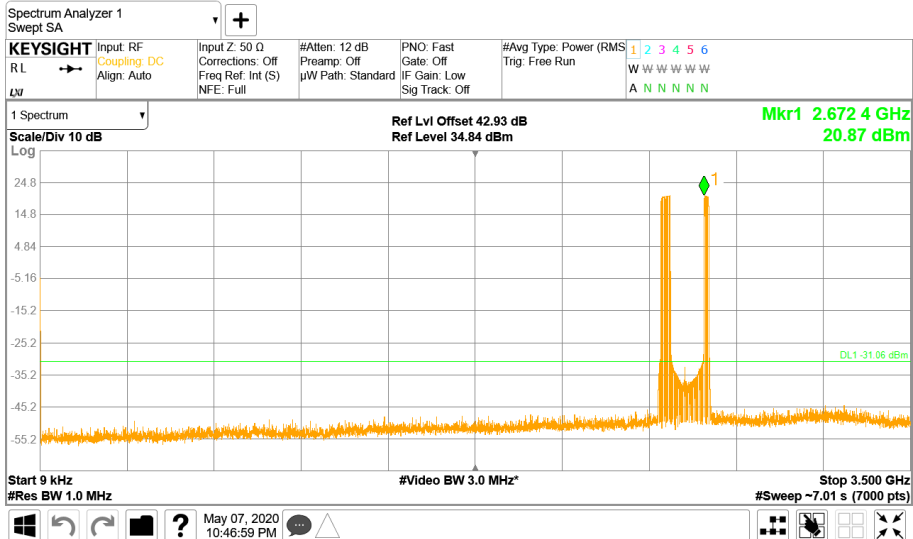


Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position B - Band 4 - Range 18000 to 27000 MHz

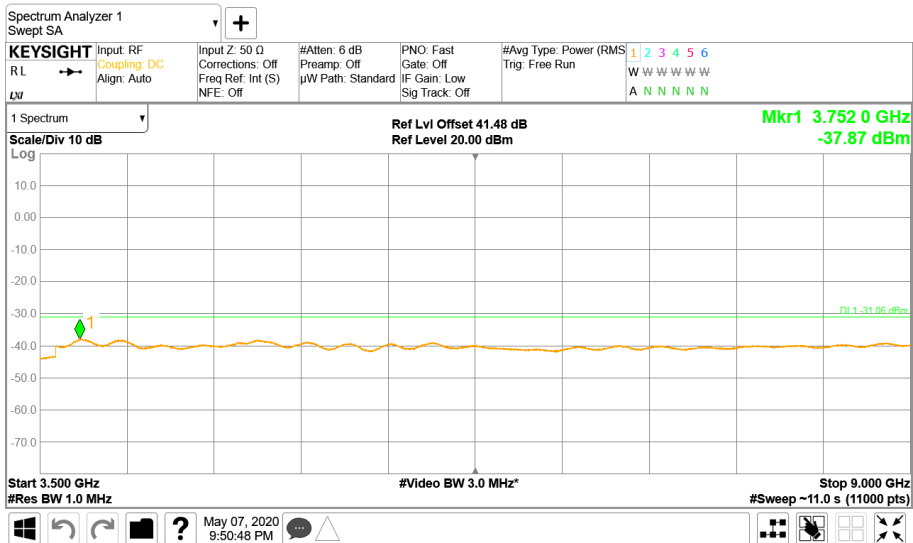




Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position M - Band 1 - Range 09 to 3500 MHz

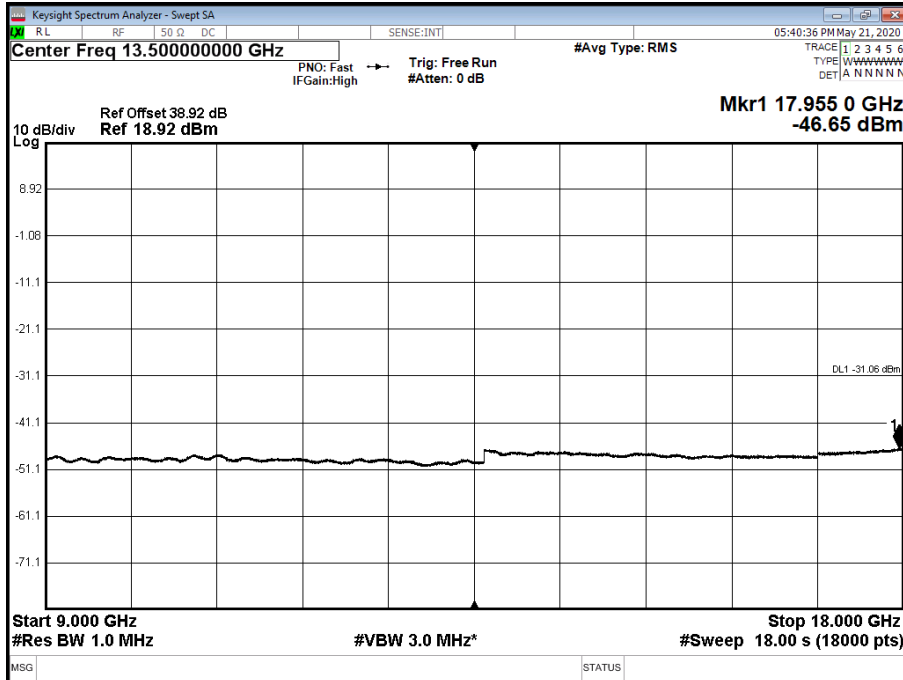


Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position M - Band 2 - Range 3500 to 9000 MHz

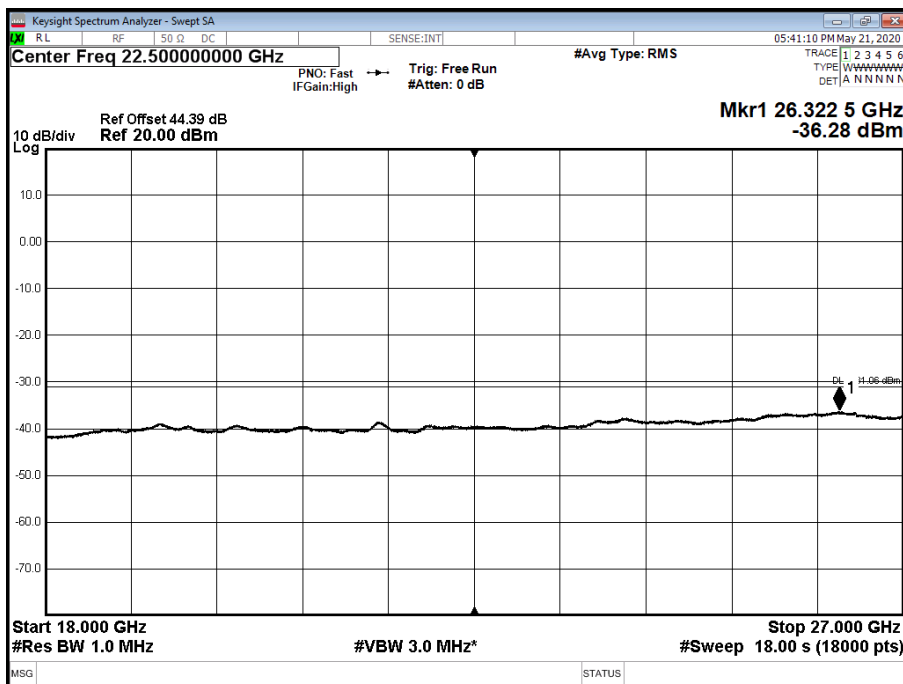




Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position M - Band 3- Range 9000 to 18000 MHz

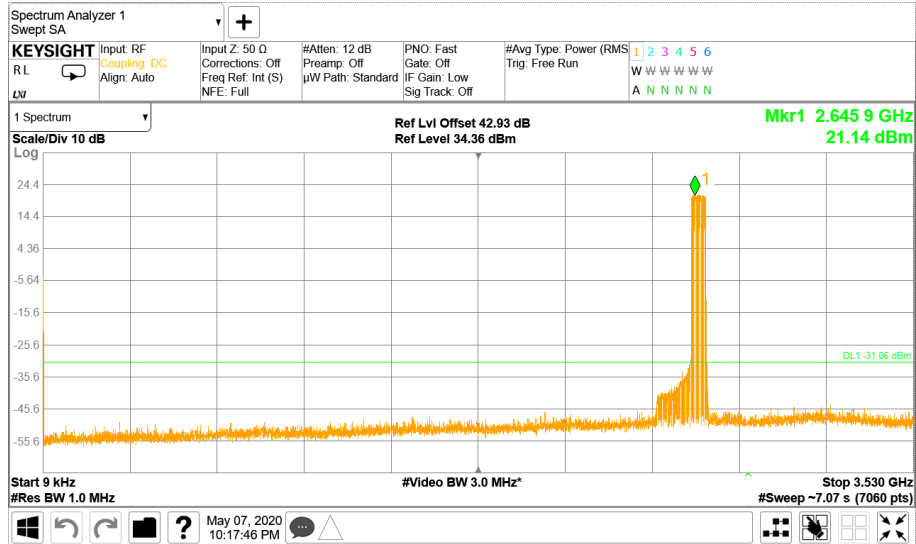


Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position M - Band 4 - Range 18000 to 27000 MHz

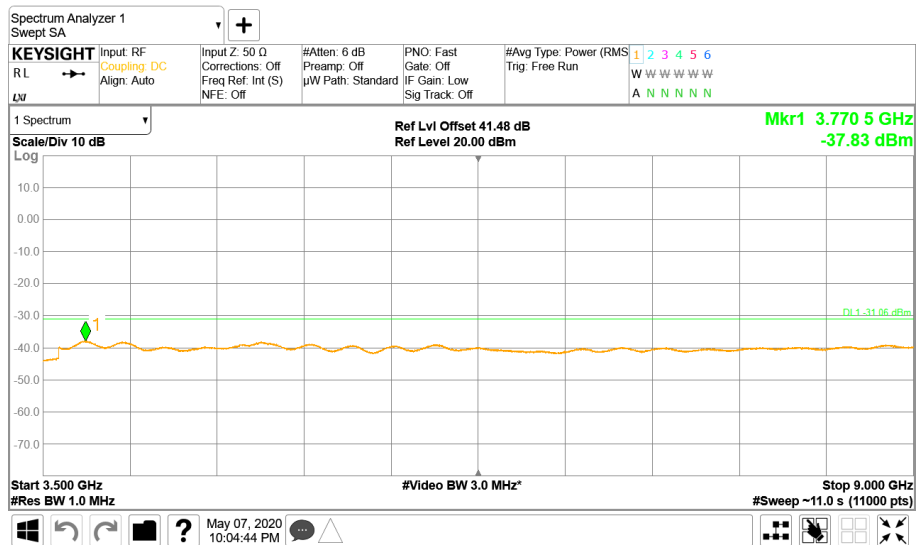




Antenna Port 34 - LTE Modulation 64QAM -3x LTE Carrier Bandwidth 20.0 MHz - Channel Position T - Band 1 - Range 09 to 3530 MHz

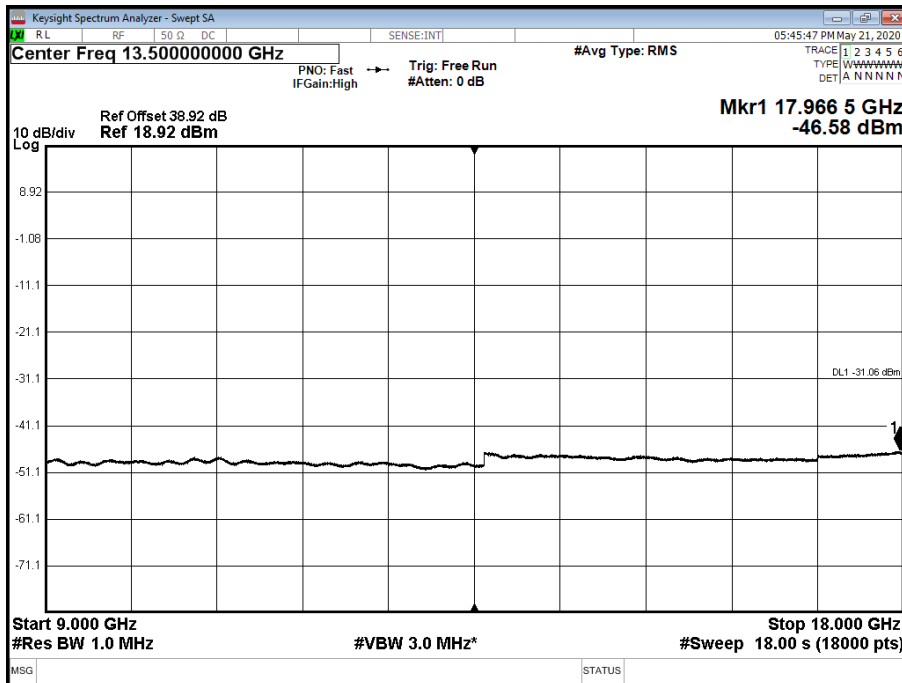


Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position T - Band 2 - Range 3500 to 9000 MHz

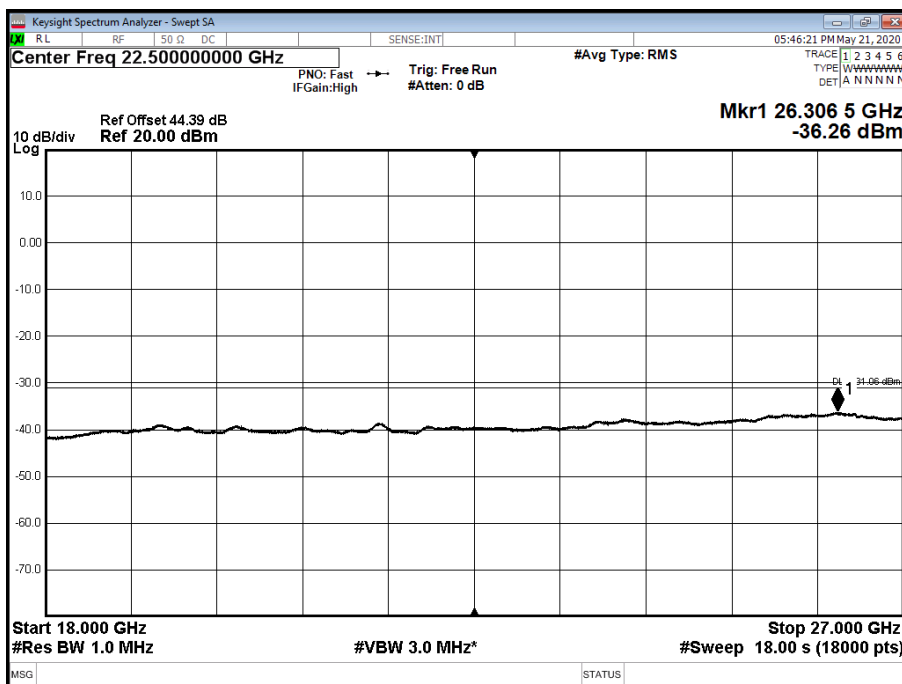




Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position T - Band 3 - Range 9000 to 18000 MHz



Antenna Port 34 - LTE Modulation 64QAM – 3xLTE Carrier Bandwidth 20.0 MHz - Channel Position T - Band 4 - Range 18000 to 27000 MHz

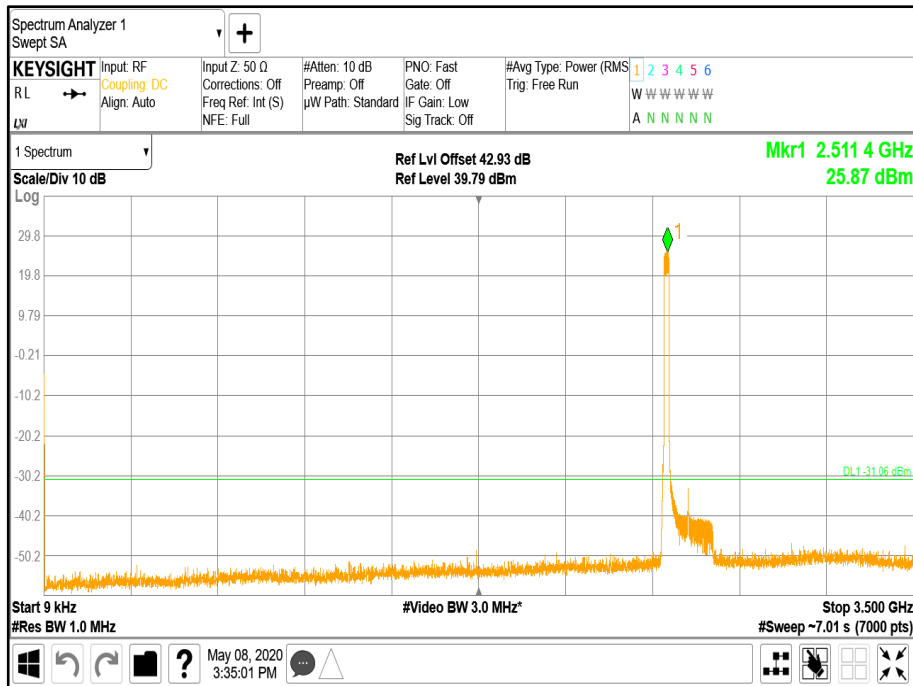




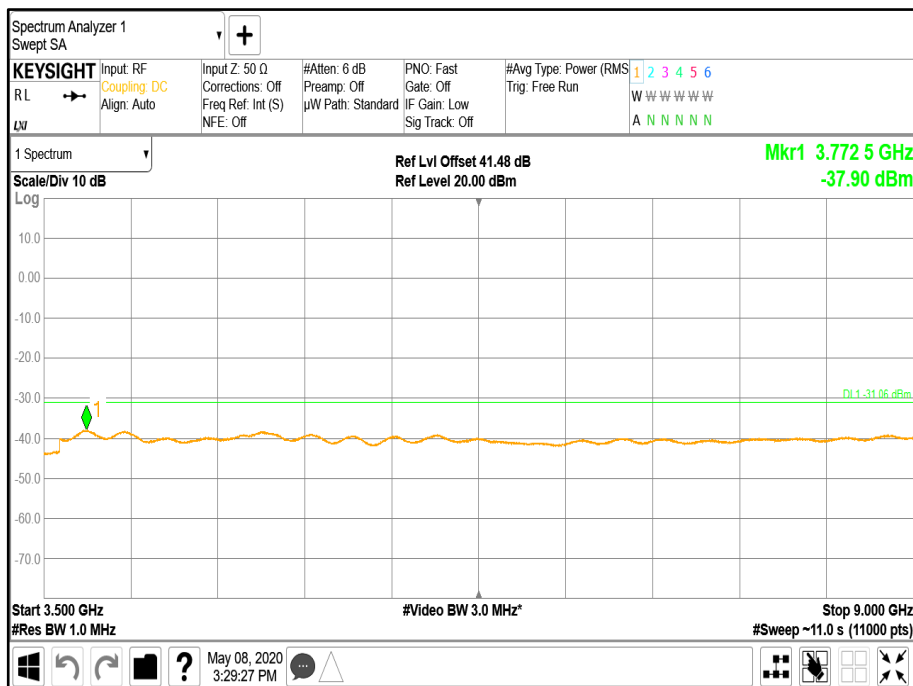
### Configuration 4

Maximum Output Power 36.0 dBm

Antenna Port 17 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B - Band 1 - Range 09 to 3500 MHz

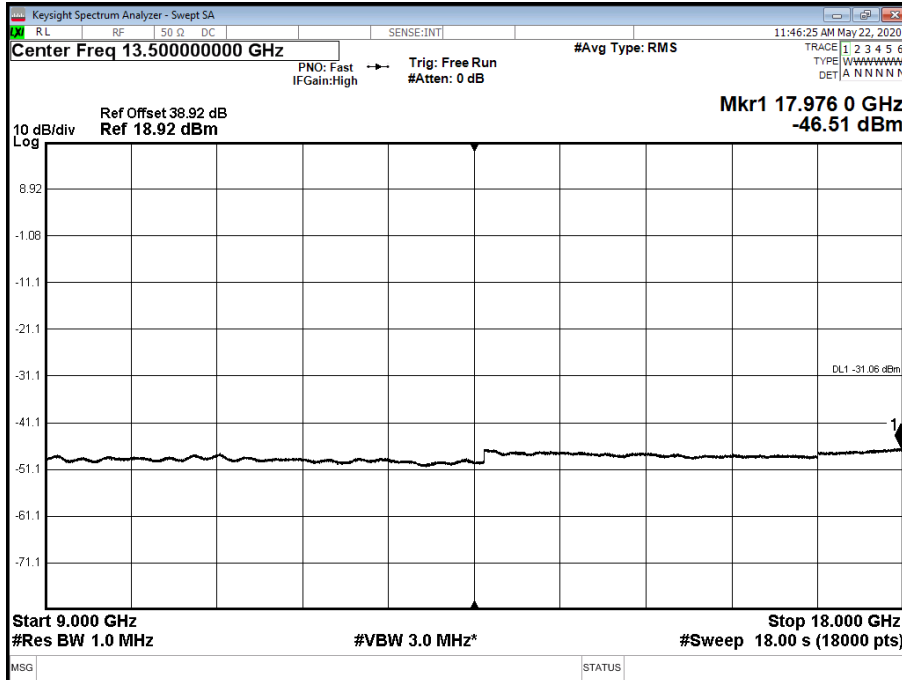


Antenna Port 17 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B - Band 2 - Range 3500 to 9000 MHz

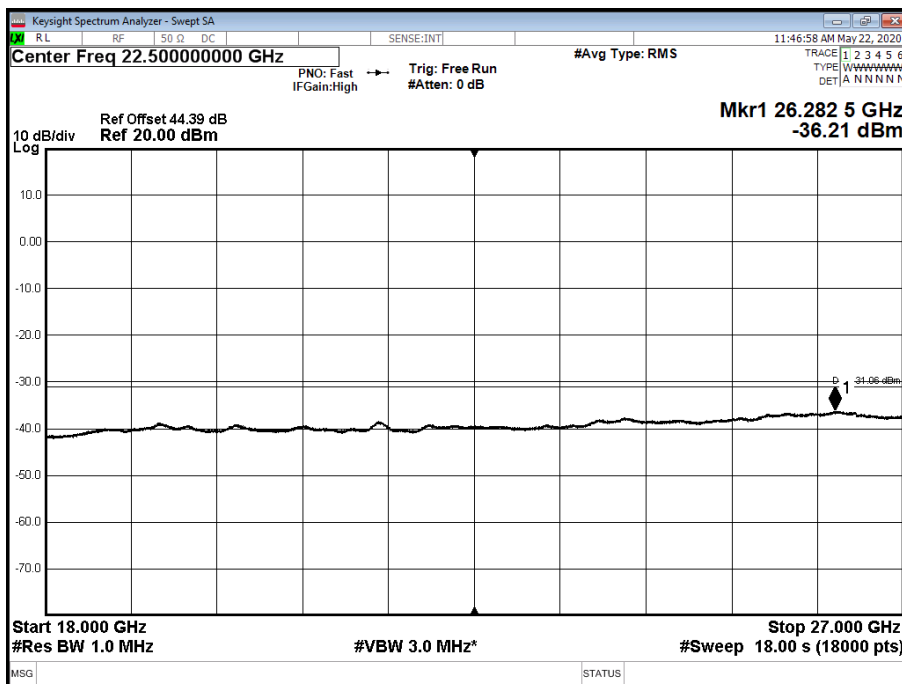




Antenna Port 17 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B - Band 3 - Range 9000 to 18000 MHz

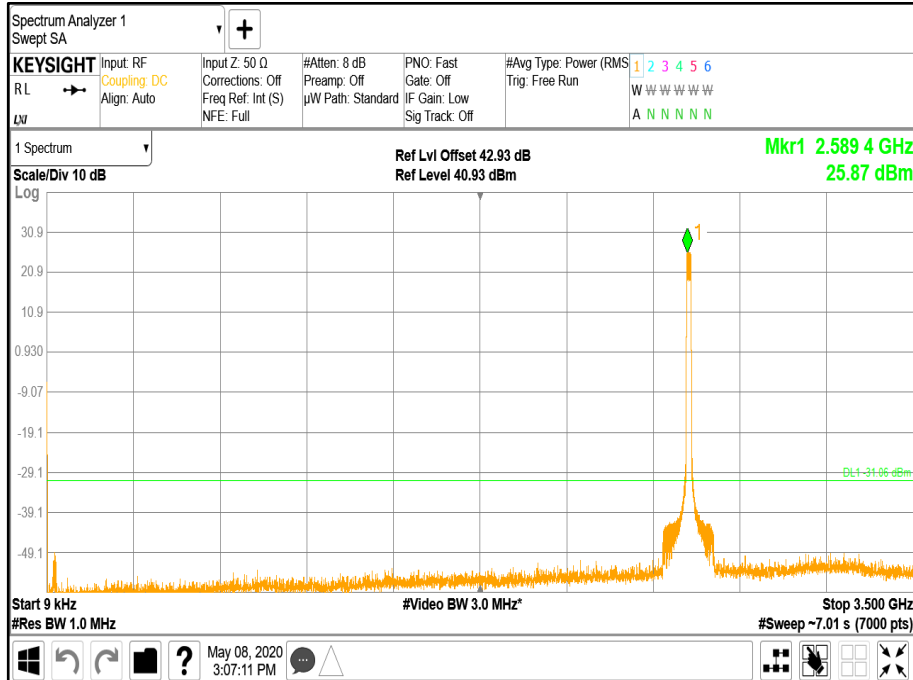


Antenna Port 17 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position B - Band 4- Range 18000 to 27000 MHz

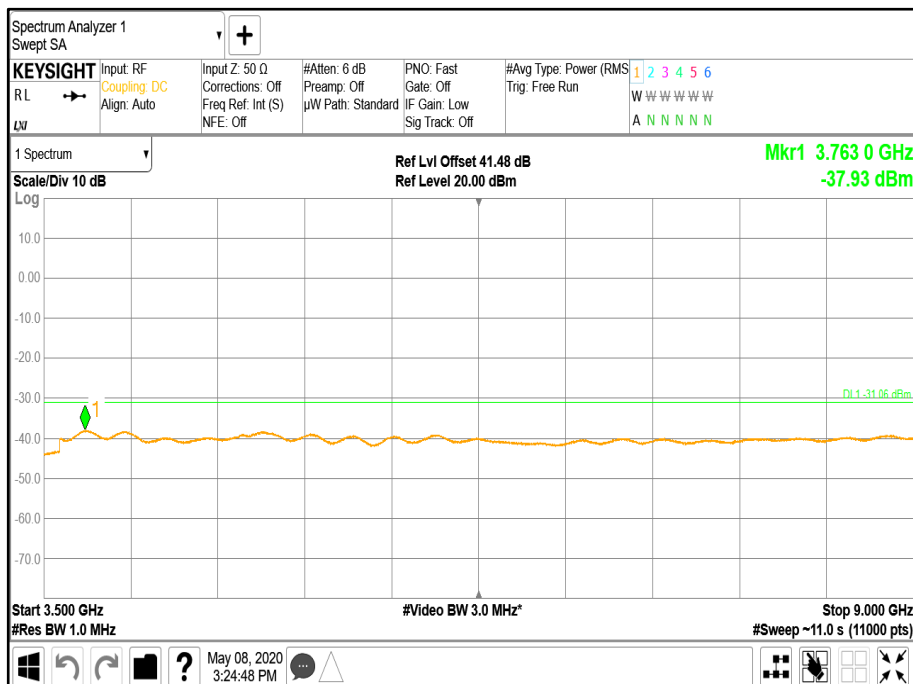




Antenna Port 34 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position M - Band 1 - Range 09 to 3500 MHz



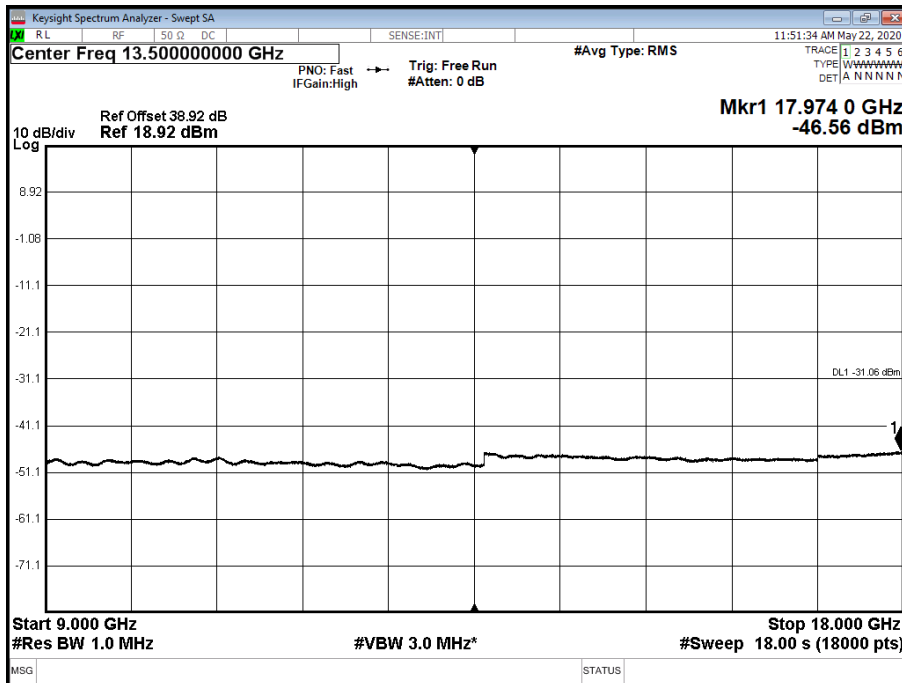
Antenna Port 34 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position M - Band 2 - Range 3500 to 9000 MHz







Antenna Port 34 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position M - Band 3 - Range 9000 to 18000 MHz



Antenna Port 34 - NR Modulation 64QAM - NR Carrier Bandwidth 20.0 MHz 30 kHz SCS - Channel Position M - Band 4 - Range 18000 to 27000 MHz

