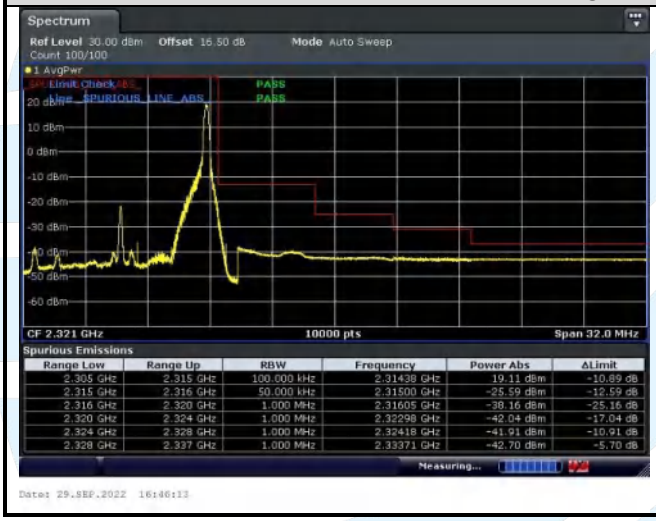
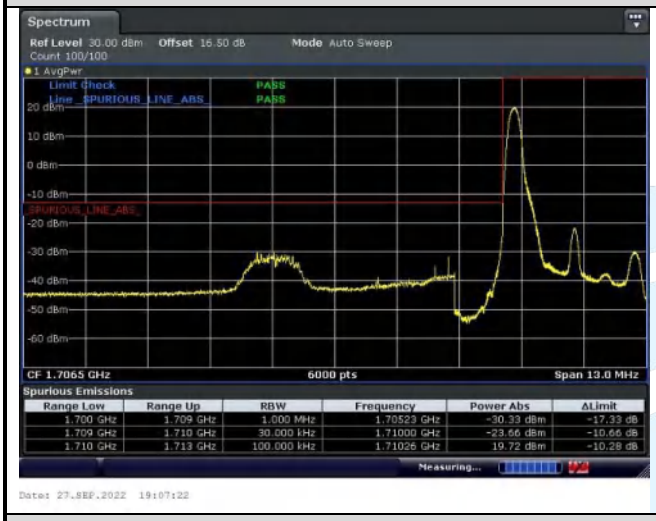
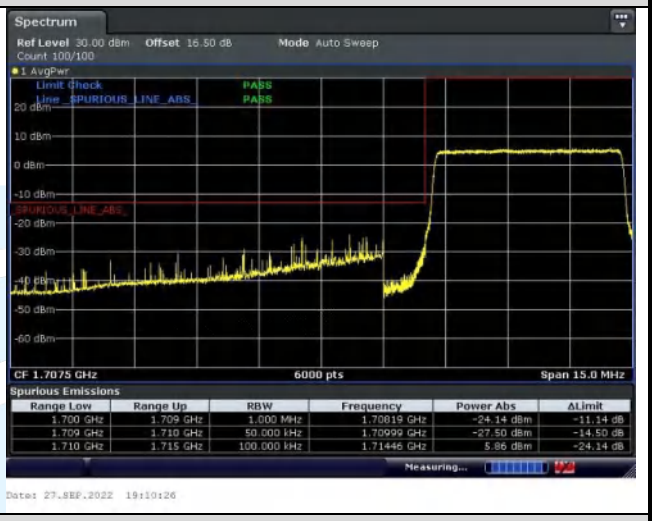
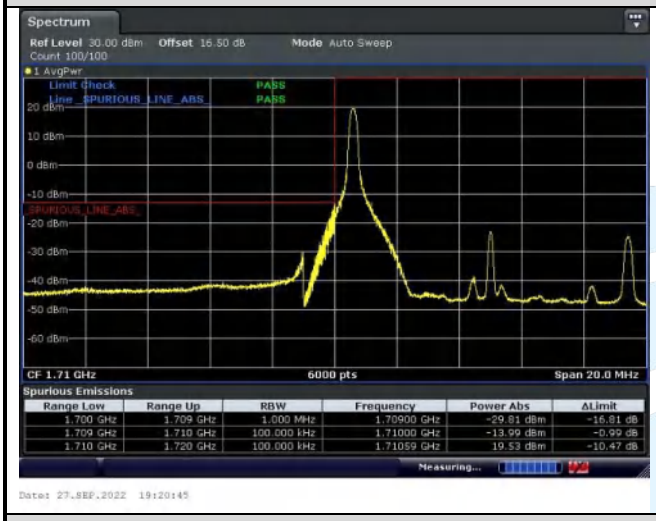
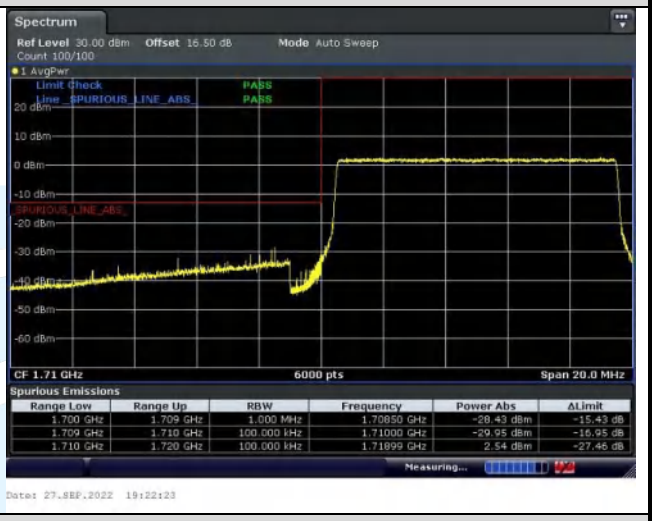
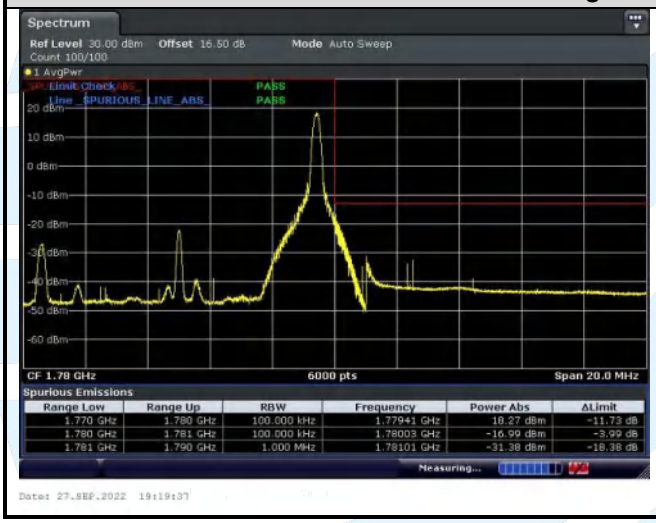
LTE Band 30 / 10 MHz / 64QAM	
1 RB	Full RB
Lowest Channel	
Highest Channel	
	

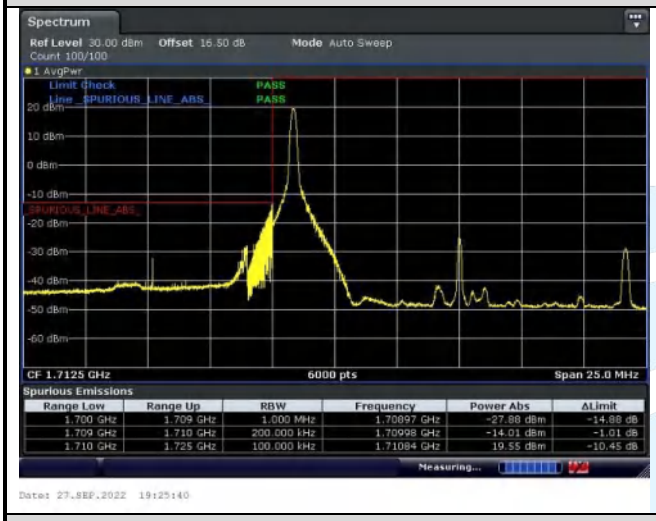
5.6.1 LTE Band 66

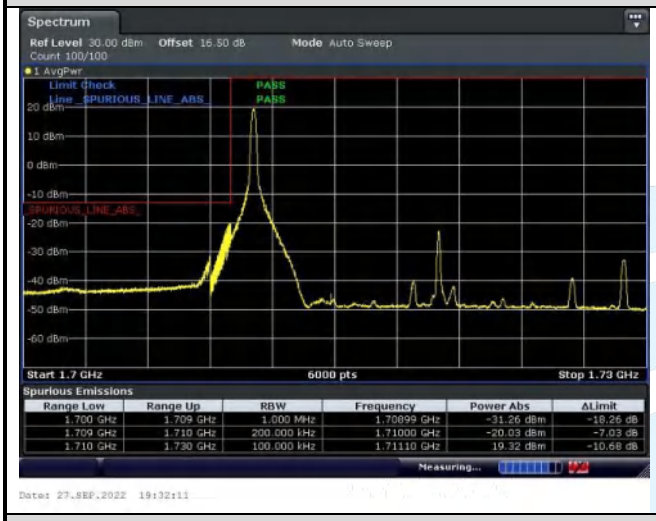
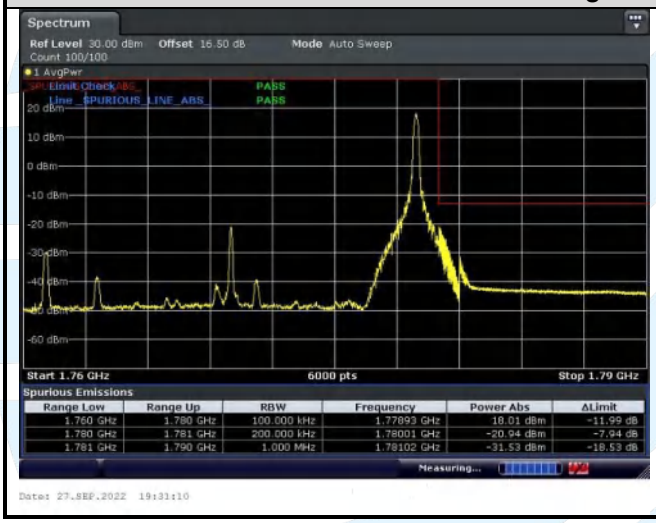
LTE Band 66 / 1.4 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
Highest Channel	

LTE Band 66 / 3 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

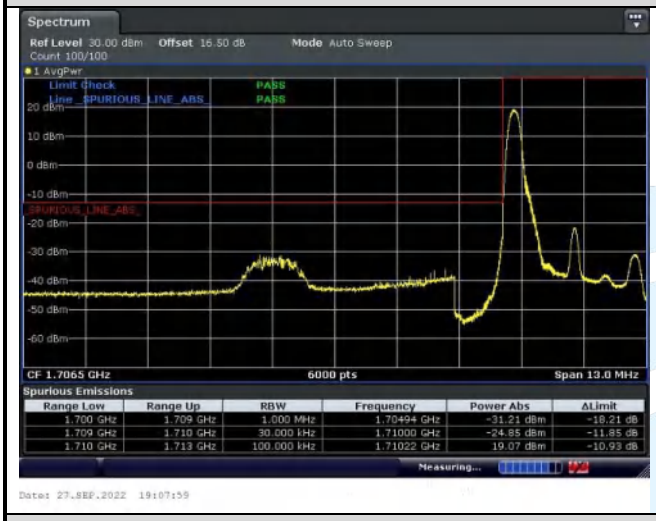
LTE Band66 / 5 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

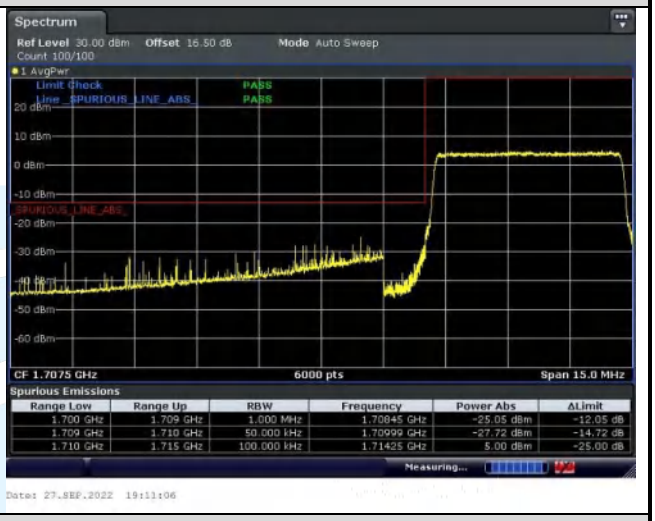
LTE Band 66 / 10 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

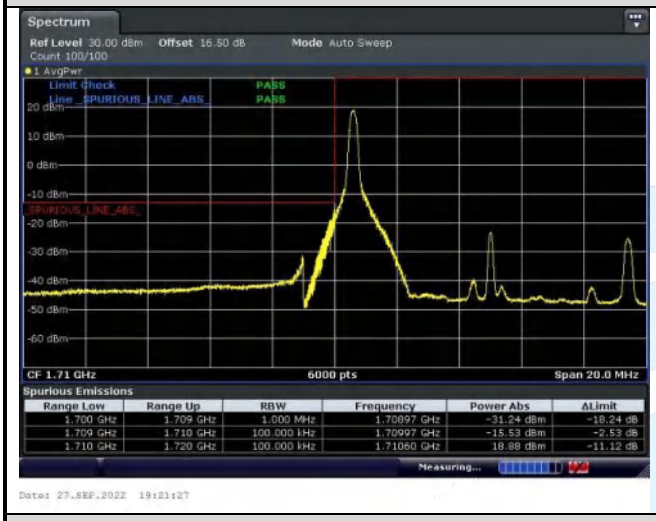
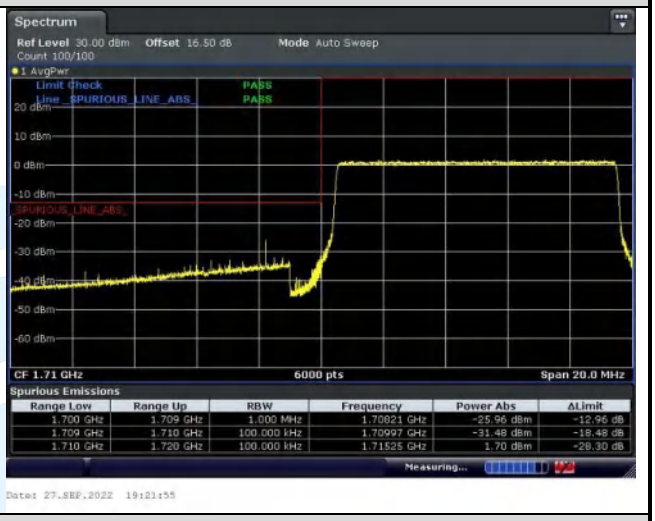
LTE Band 66 / 15 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

LTE Band 66 / 20 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

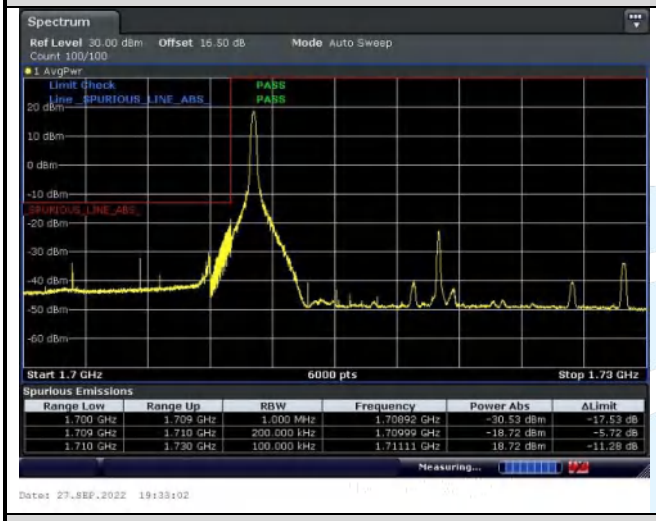
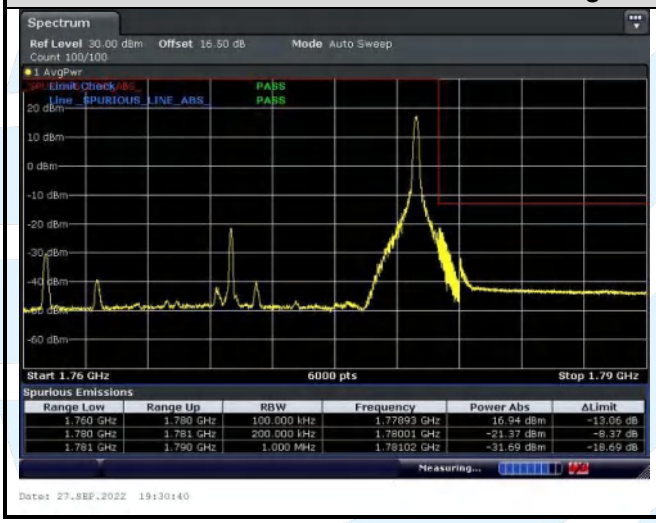
LTE Band 66 / 1.4 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
Highest Channel	

LTE Band 66 / 3 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

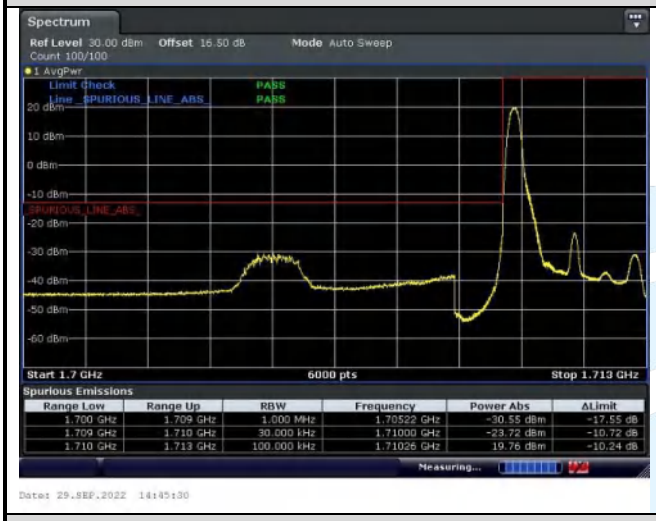
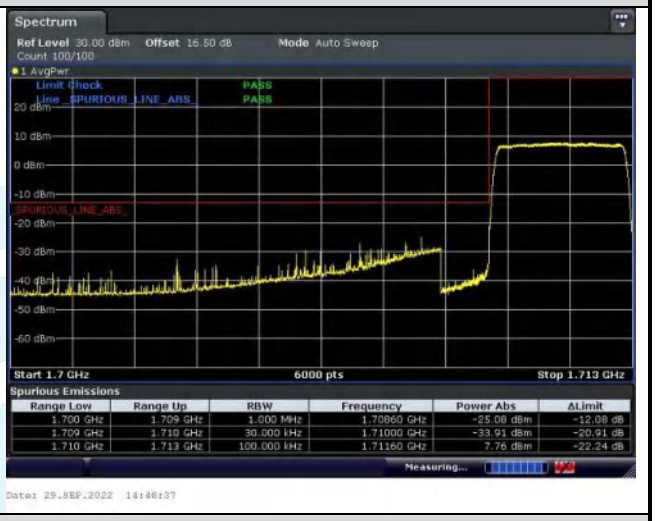
LTE Band 66 / 5 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

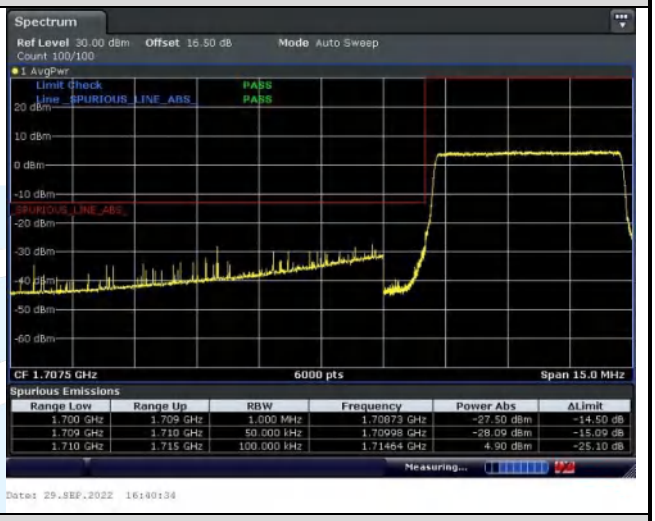
LTE Band 66 / 10 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

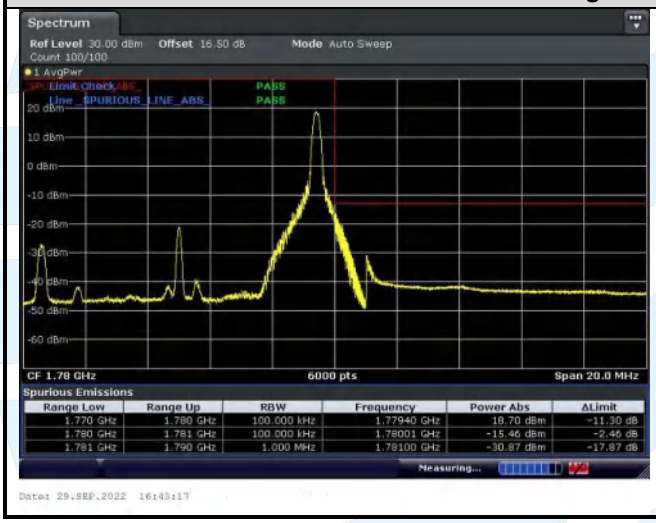
LTE Band 66 / 15 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
Highest Channel	

LTE Band 66 / 20 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

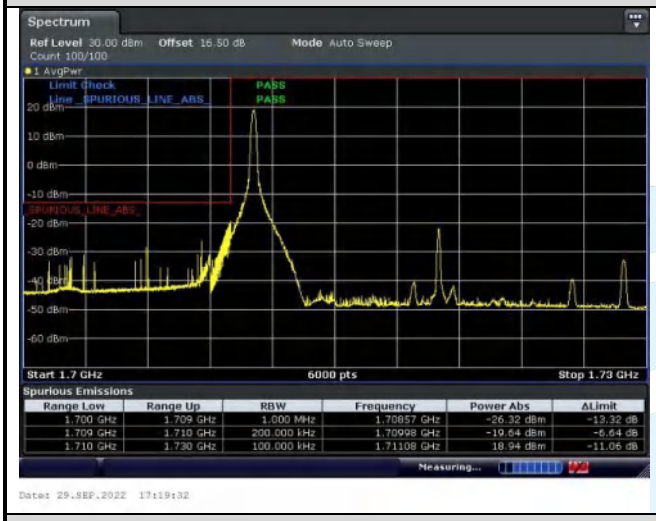
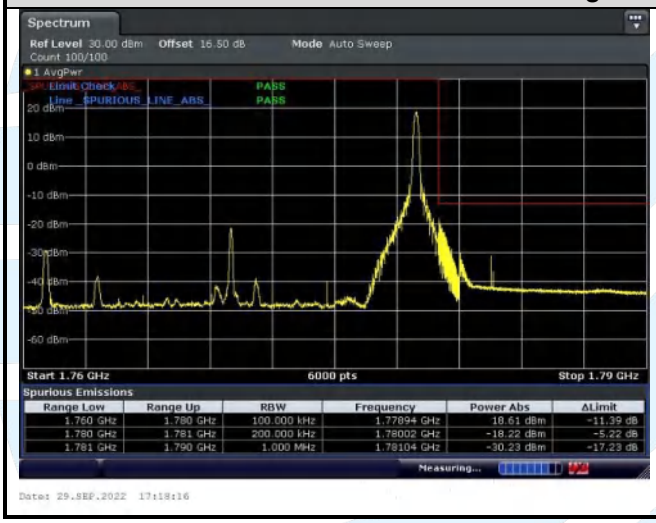
LTE Band 66 / 1.4 MHz / 64QAM	
1 RB	Full RB
Lowest Channel	
Highest Channel	

LTE Band 66 / 3 MHz / 64QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

LTE Band 66 / 5 MHz / 64QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

LTE Band 66 / 10 MHz / 64QAM	
1 RB	Full RB
Lowest Channel	
Highest Channel	
	

LTE Band 66 / 15 MHz / 64QAM	
1 RB	Full RB
Lowest Channel	
Highest Channel	

LTE Band 66 / 20 MHz / 64QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: **LTE Band 2:** FCC 47 CFR Part 24.238(a)
LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 12 & Band 17: FCC 47 CFR Part 27.53(g)
LTE Band 30: FCC 47 CFR Part 27.53(a)(4)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g):
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(a)(4): For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;
(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;
(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

Test Procedure:
The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

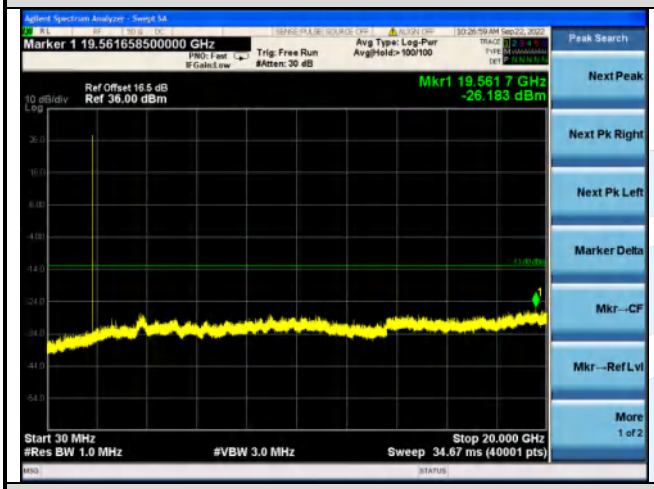
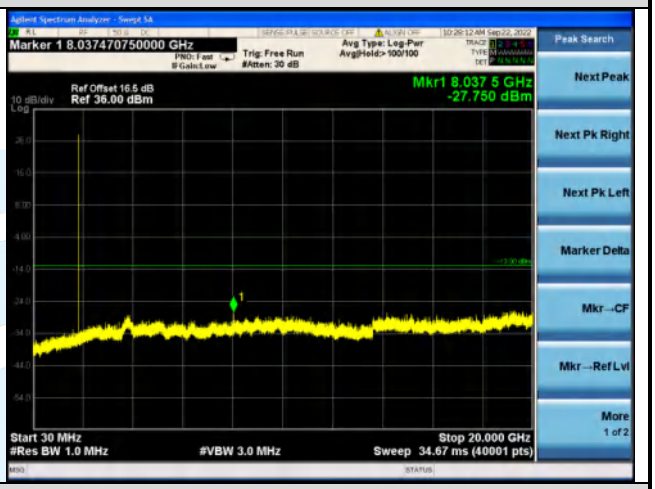
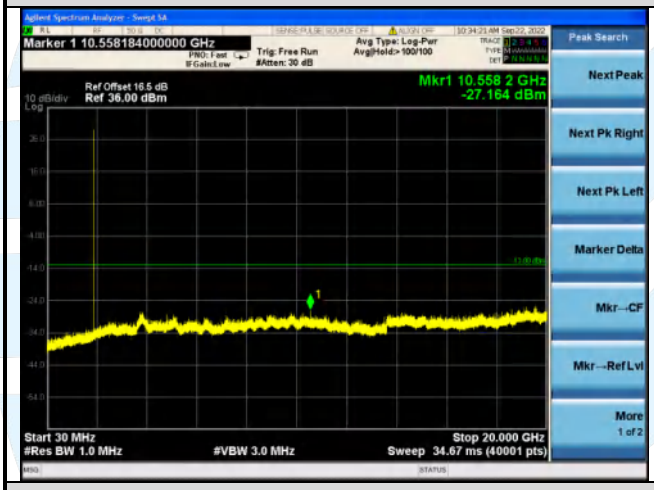
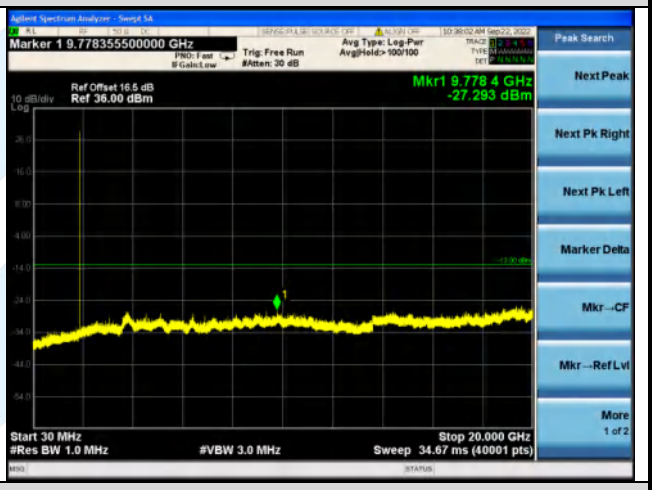
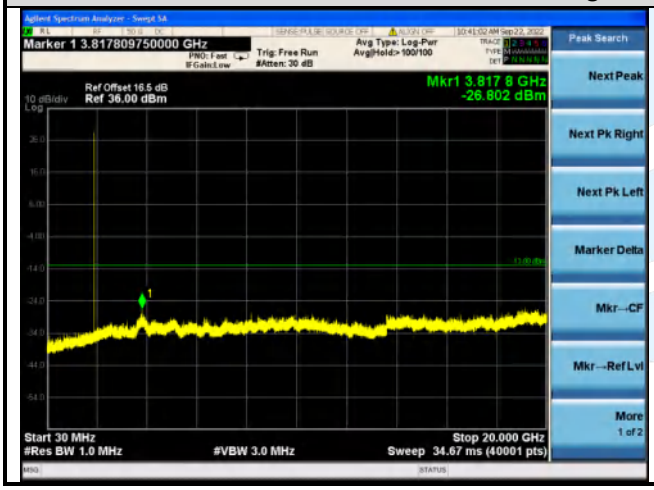
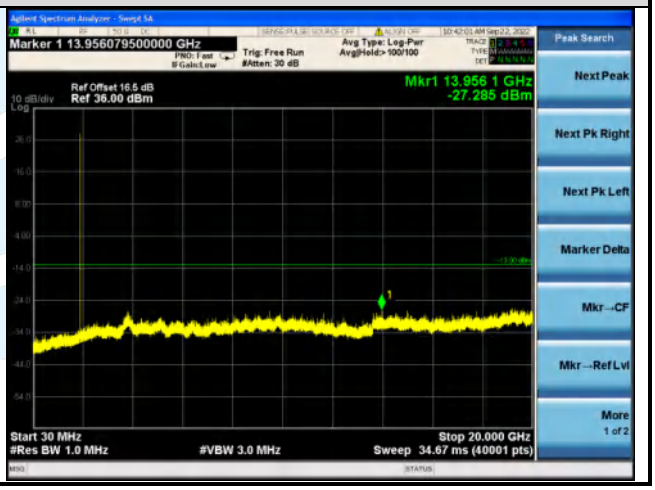
Test Setup: Refer to section 4.2.2 for details.

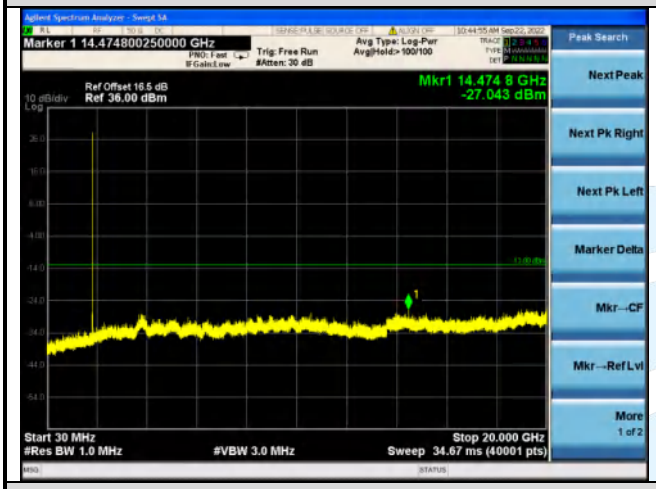
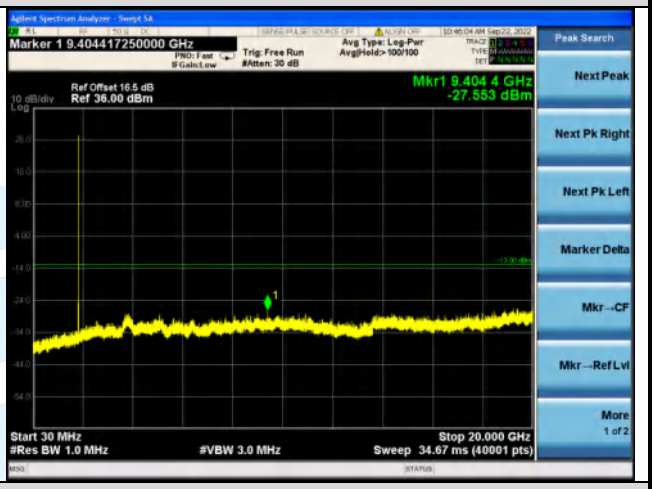
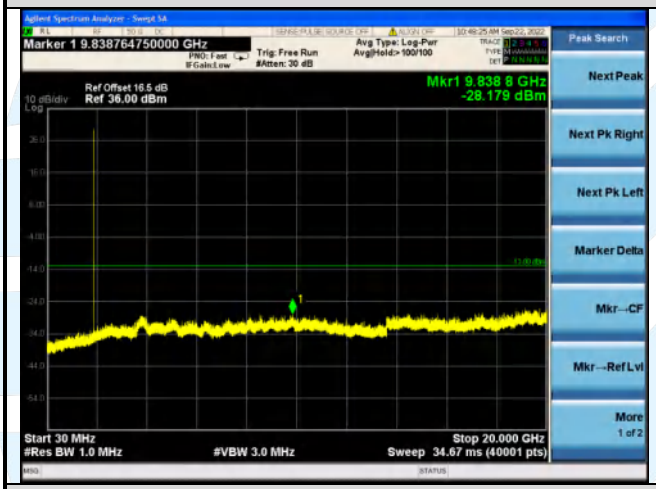
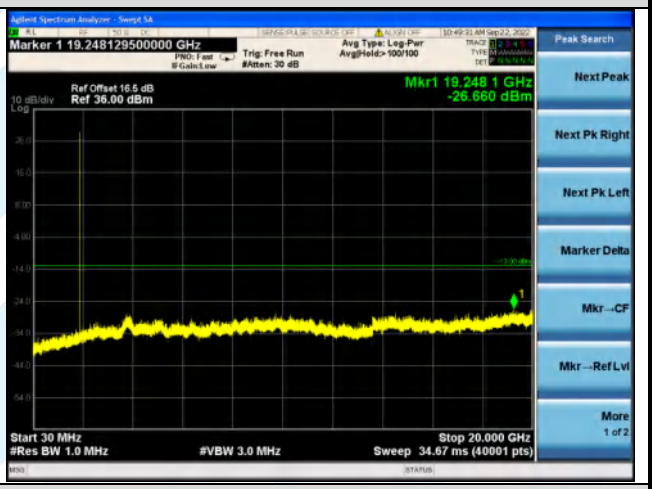
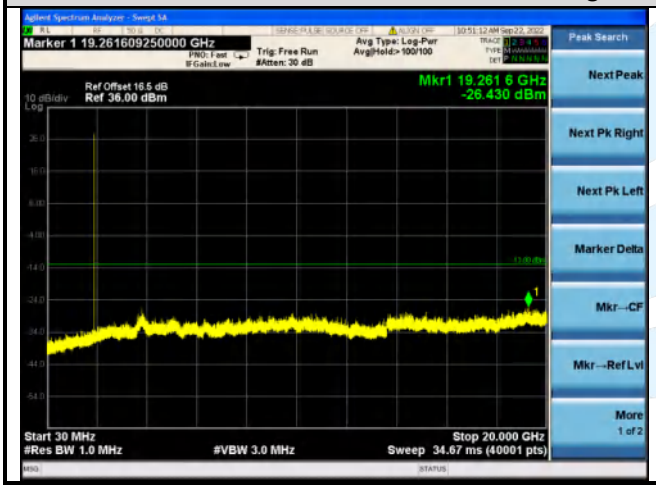
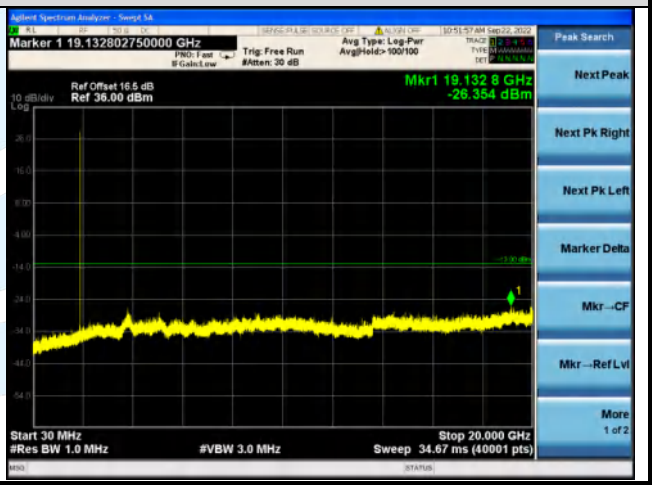
Instruments Used: Refer to section 3 for details

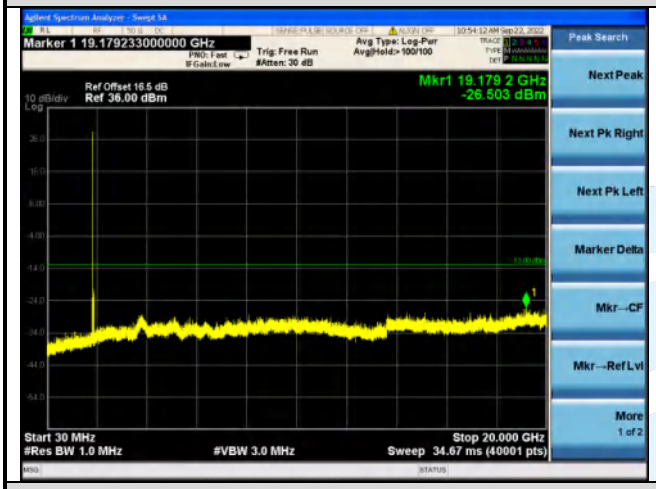
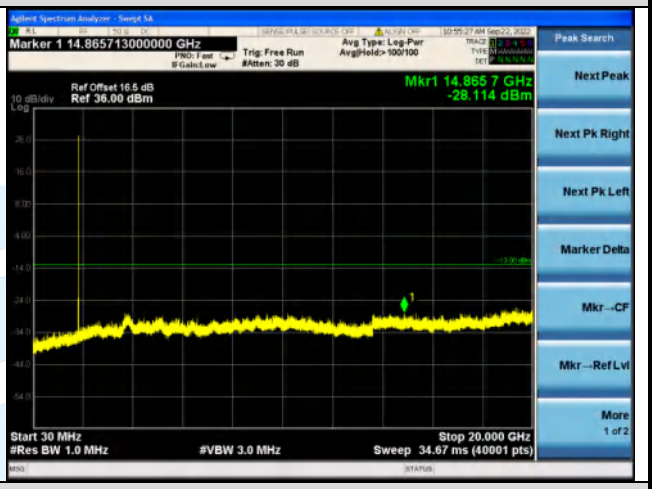
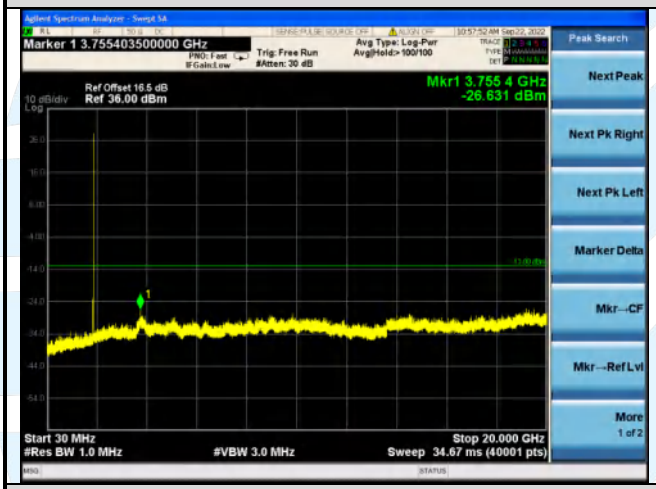
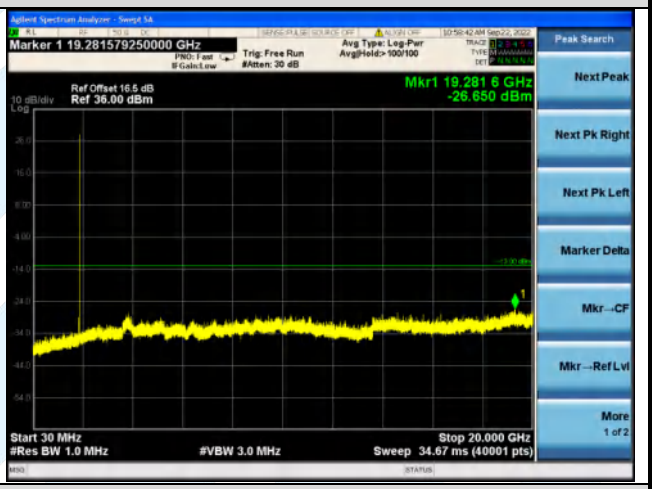
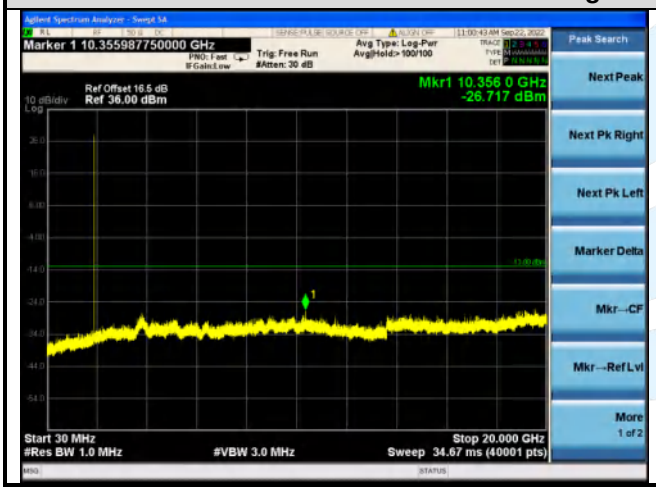
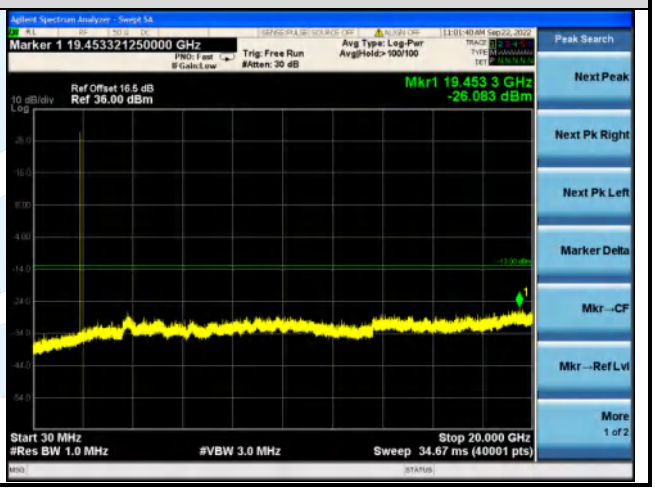
Test Mode: Link mode

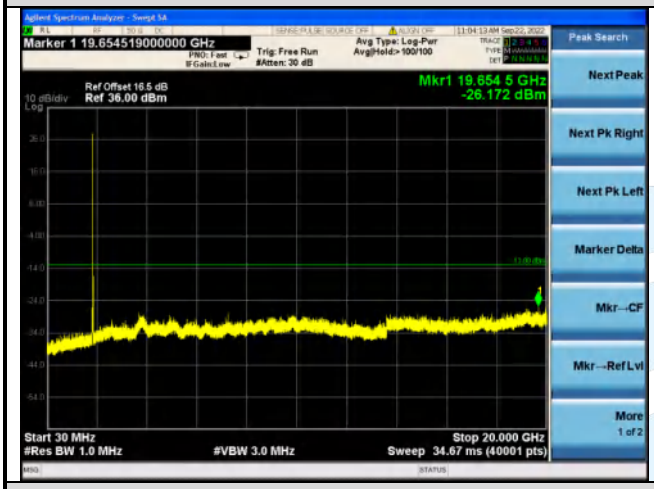
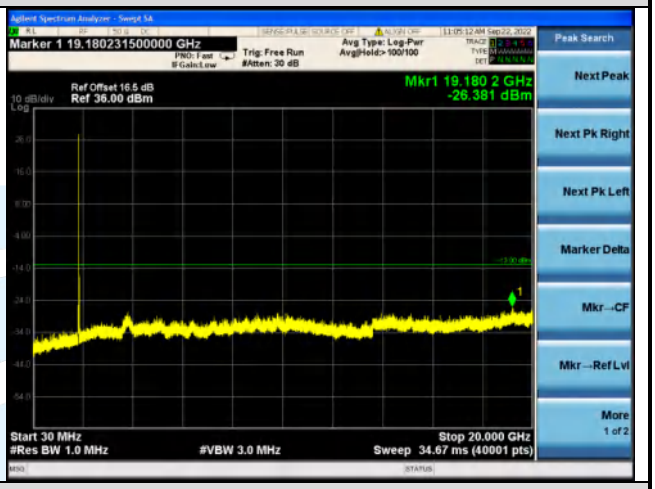
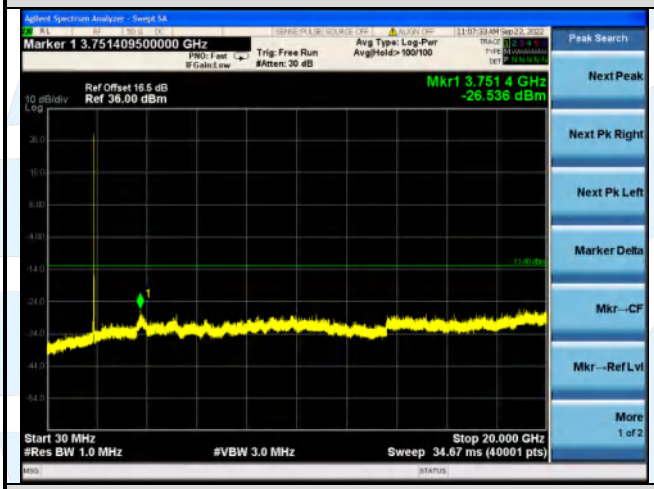
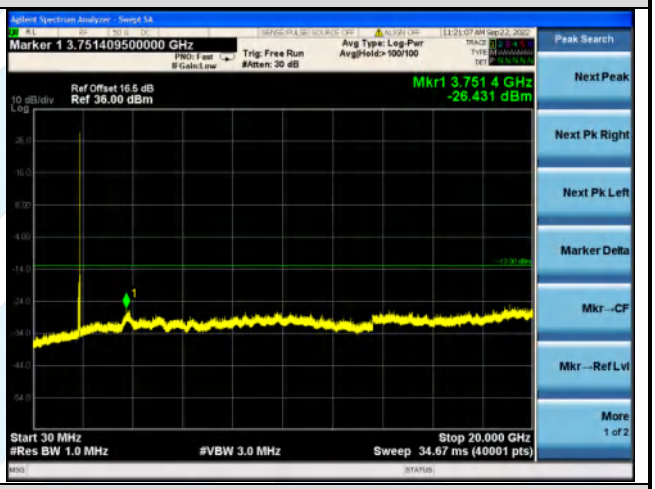
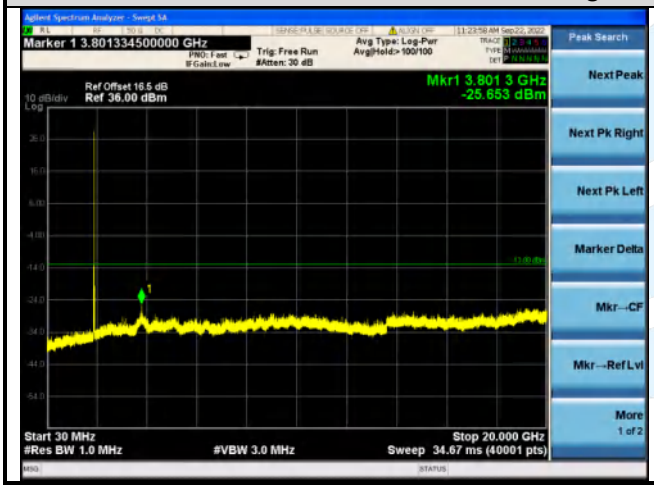
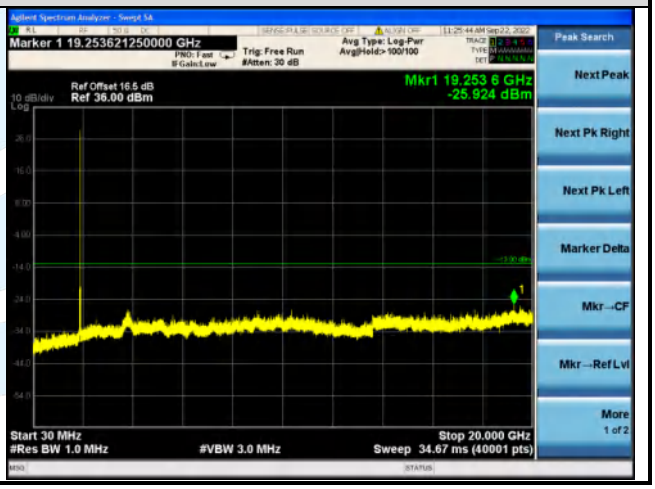
Test Results: Pass

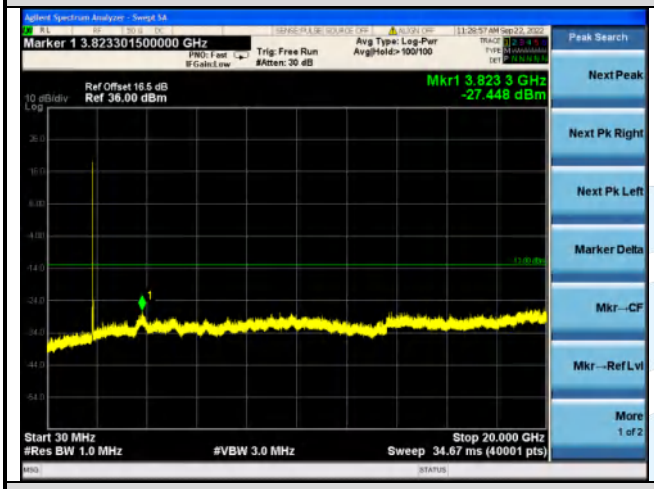
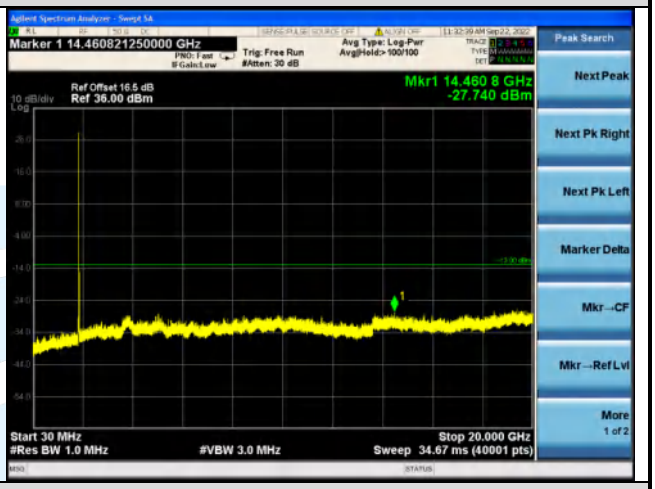
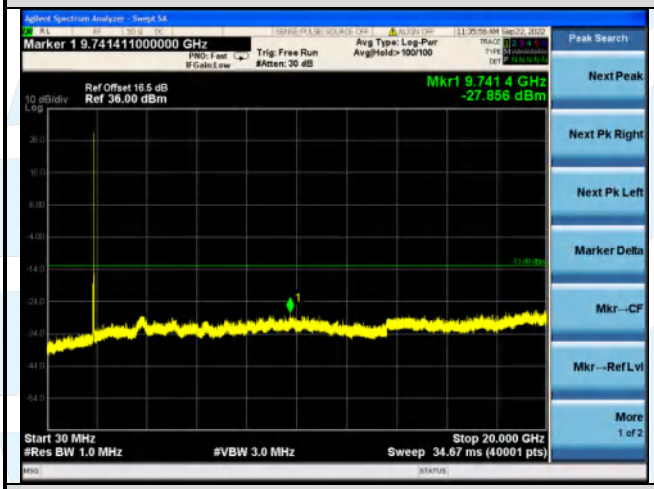
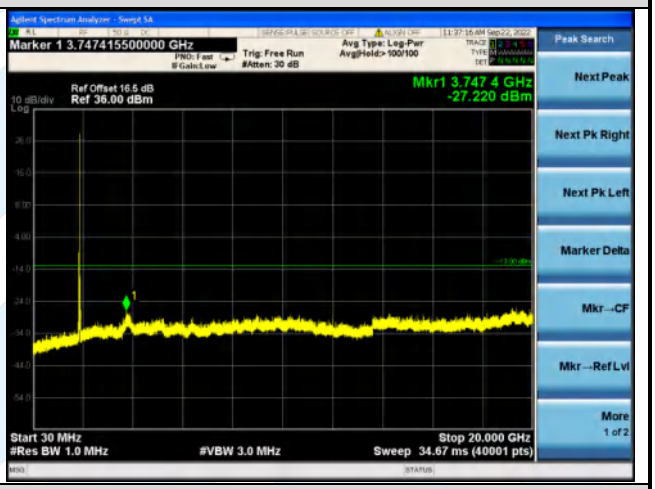
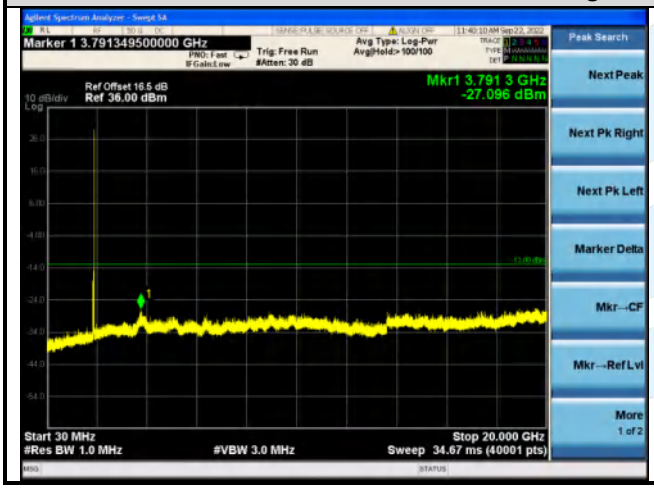
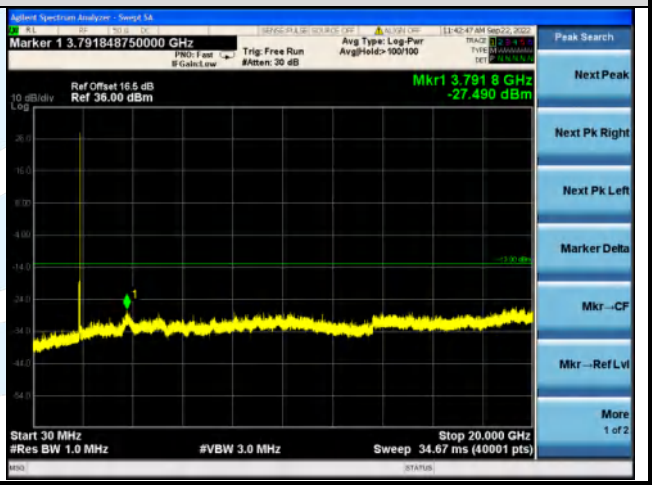
5.7.1 LTE Band 2

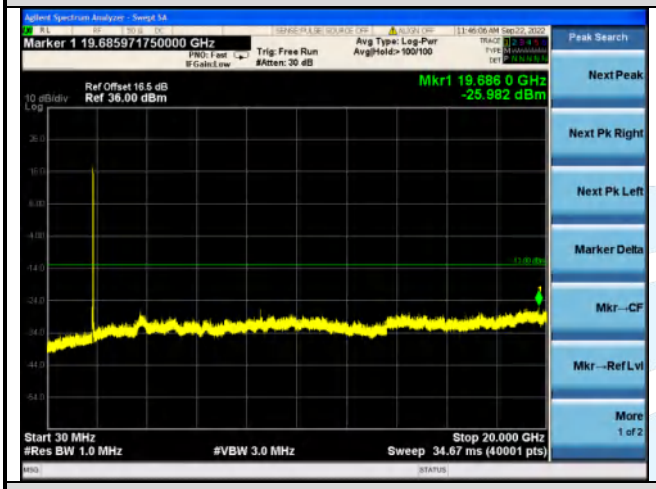
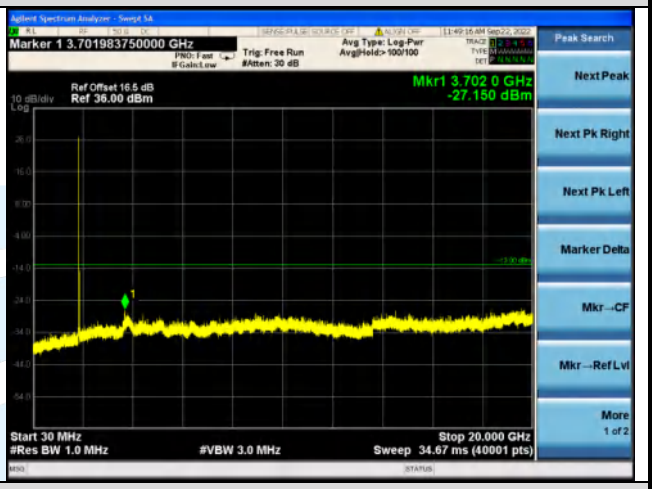
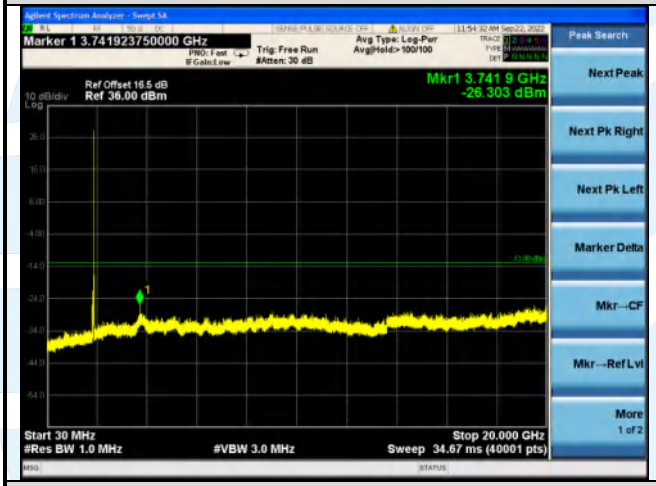
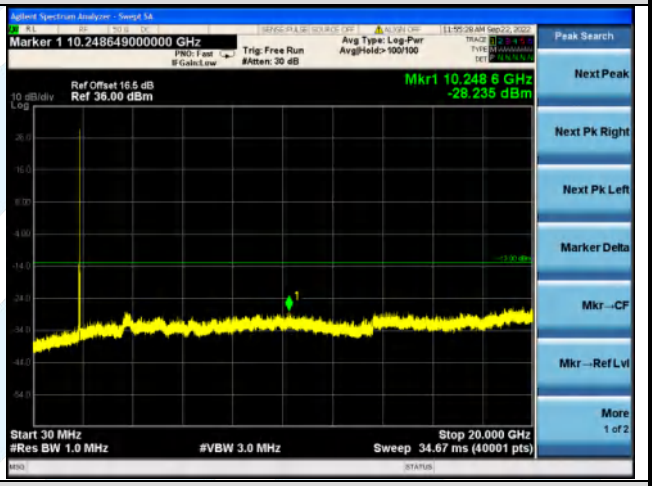
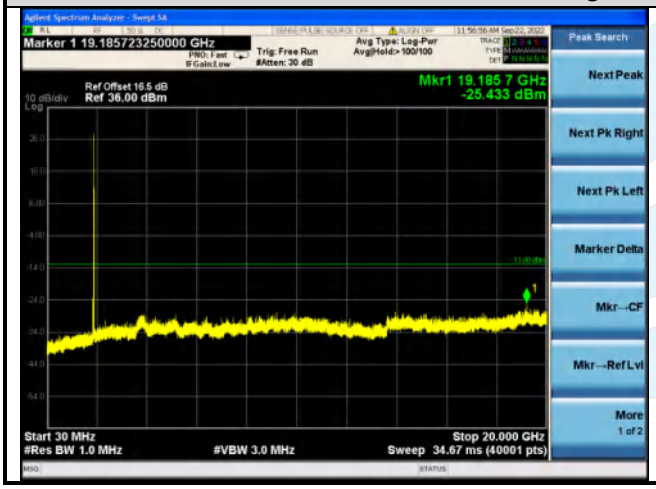
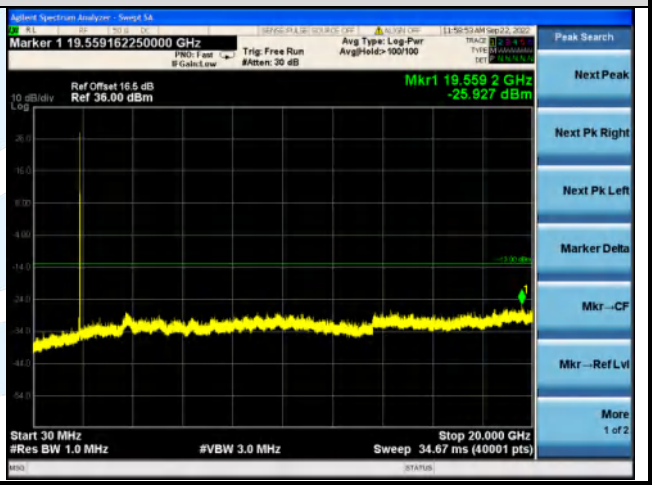
LTE Band 2_ Channel Bandwidth: 1.4 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

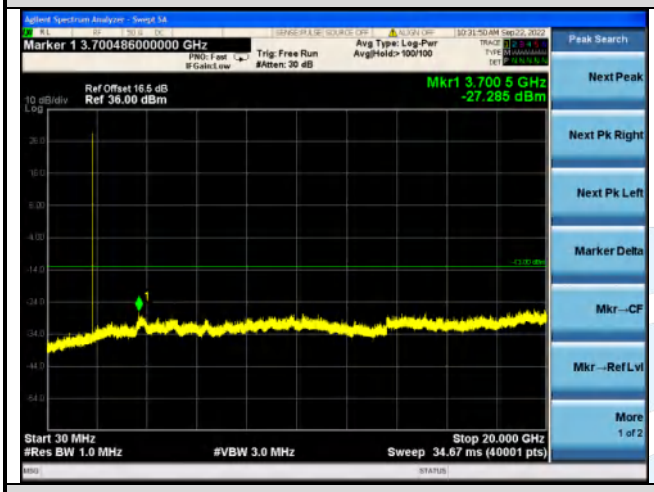
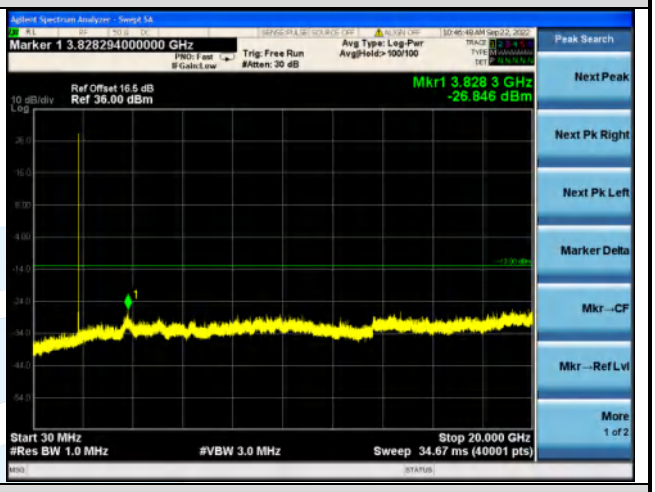
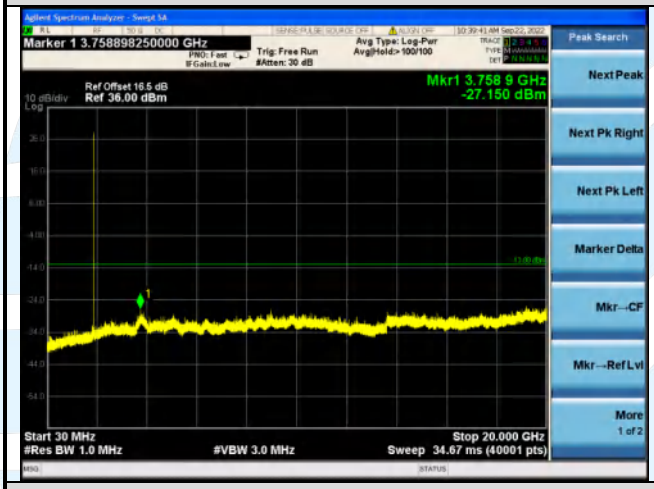
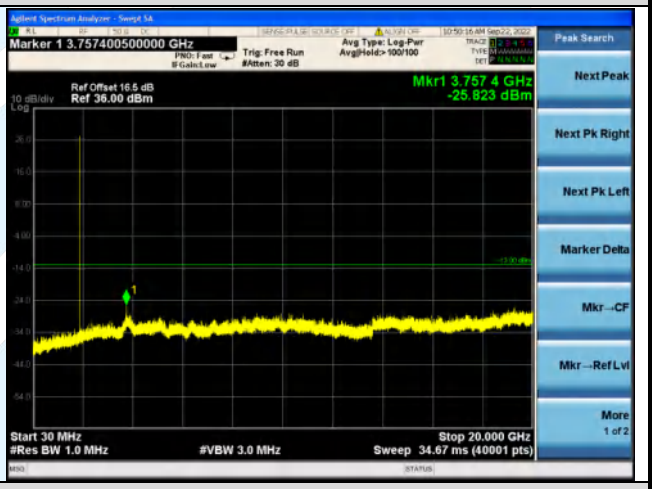
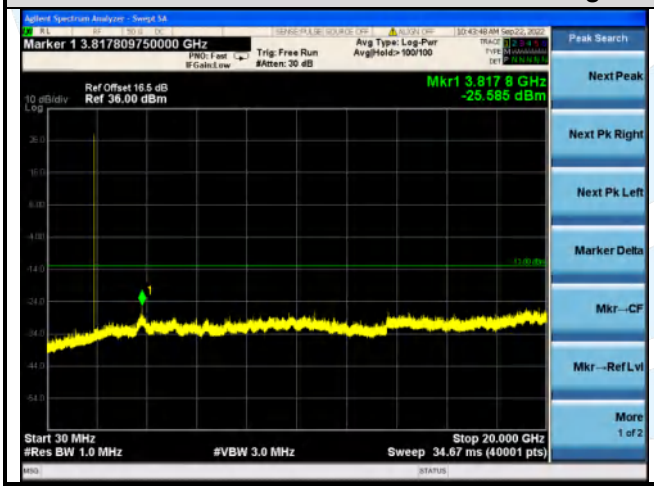
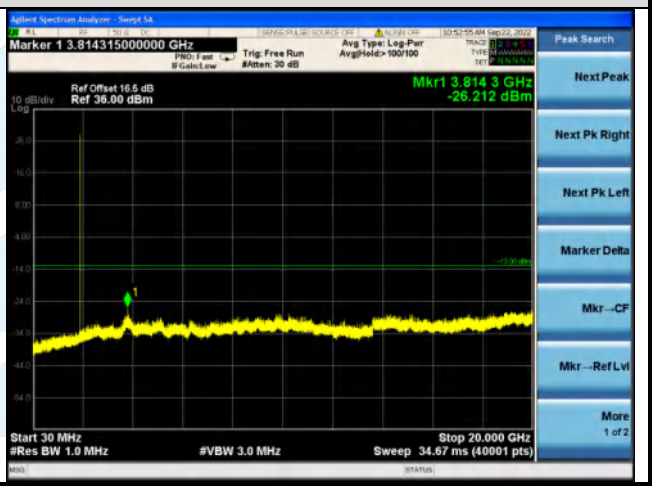
LTE Band 2_ Channel Bandwidth: 3 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

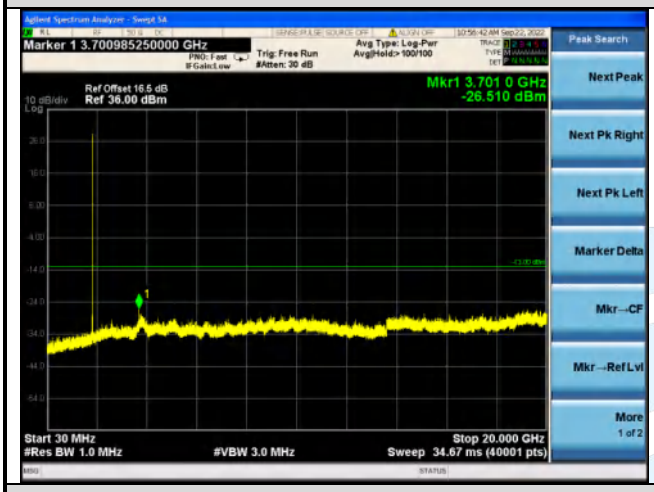
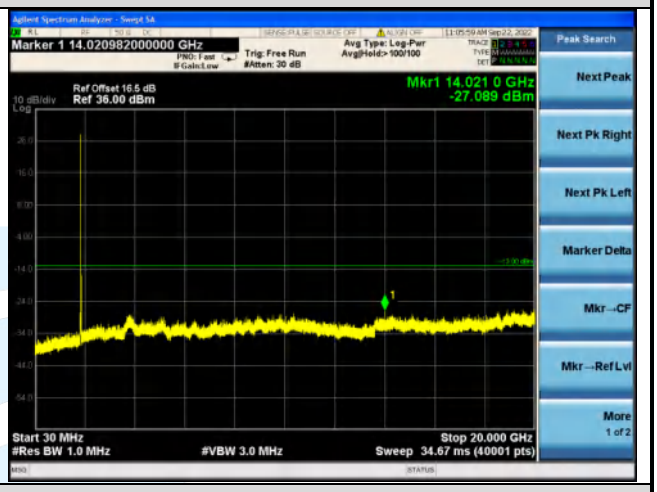
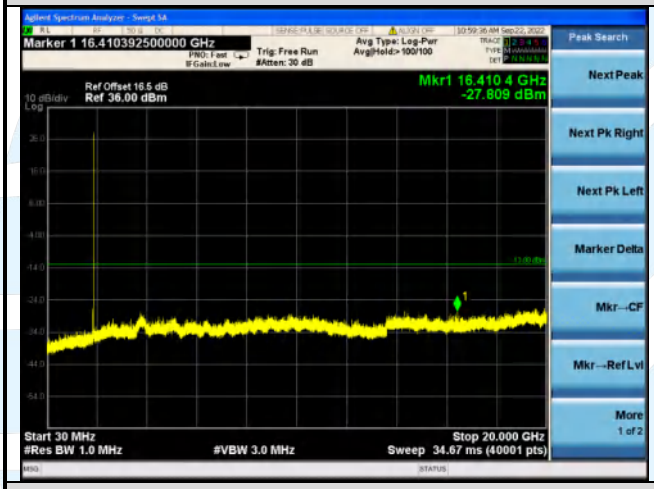
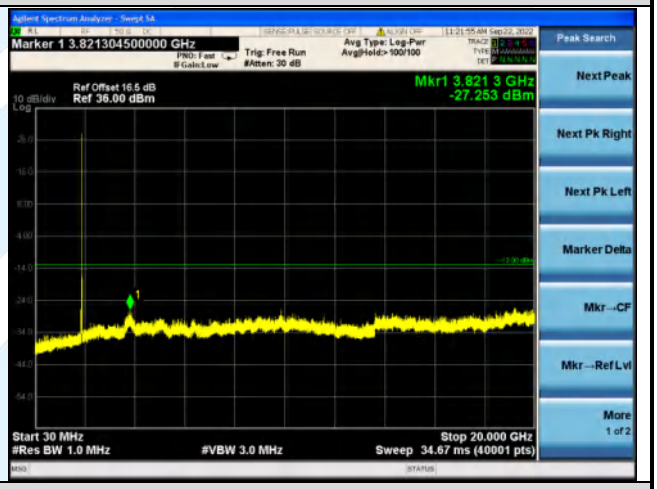
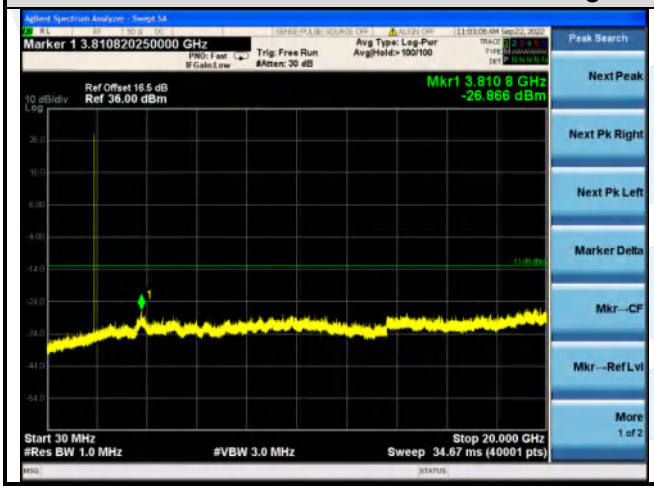
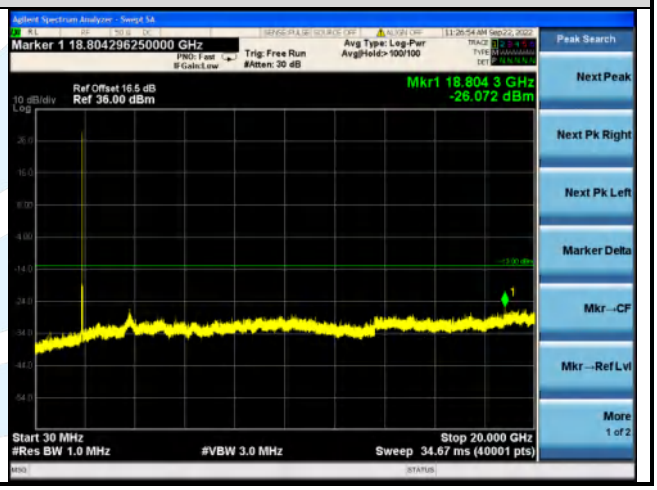
LTE Band 2_ Channel Bandwidth: 5 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

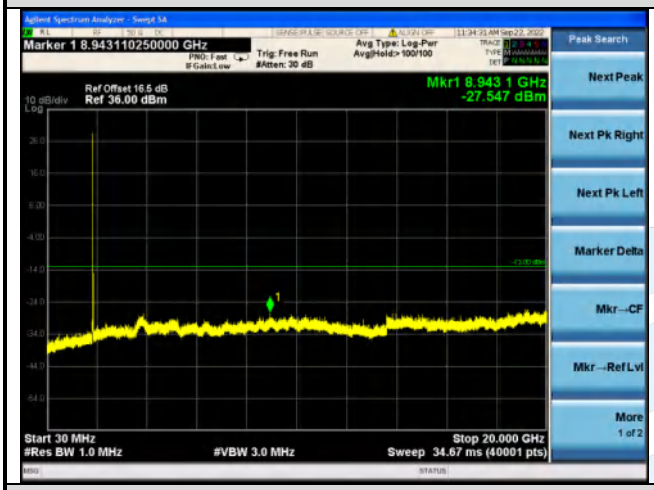
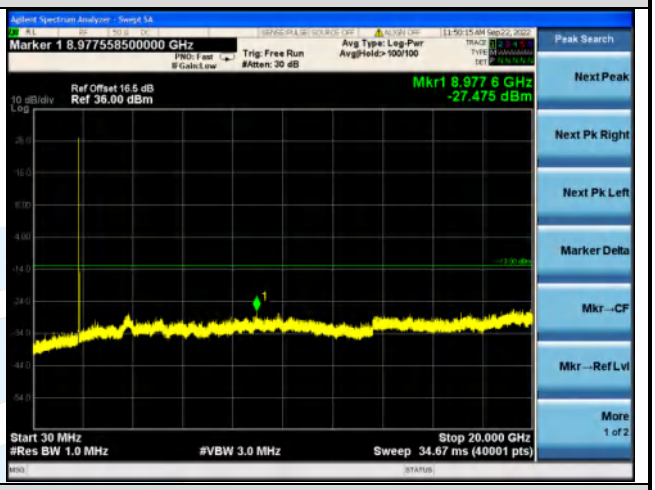
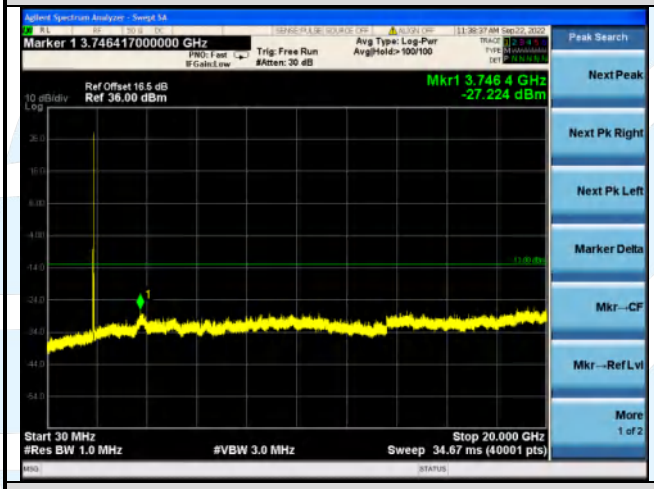
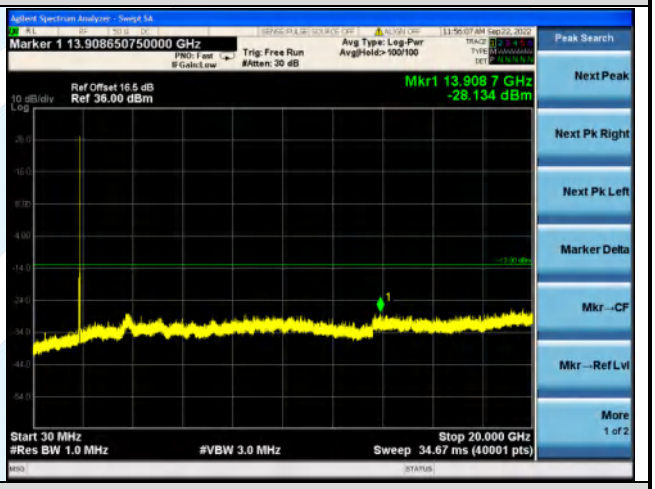
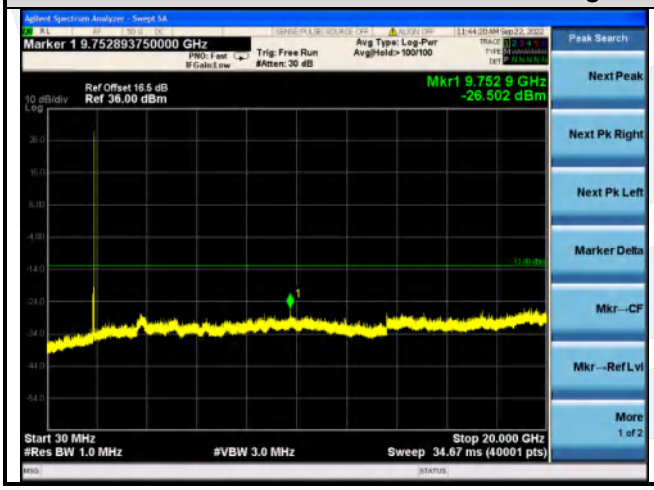
LTE Band 2_ Channel Bandwidth: 10 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 2_ Channel Bandwidth: 15 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

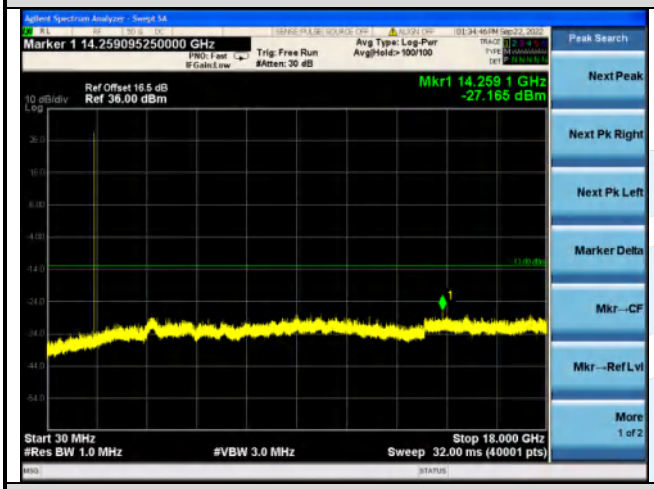
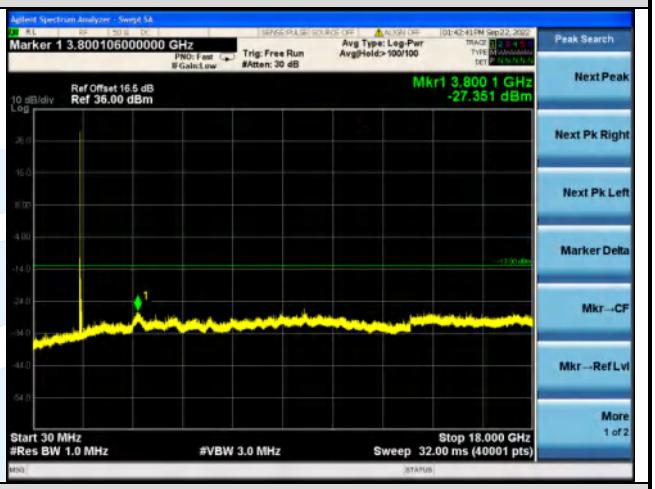
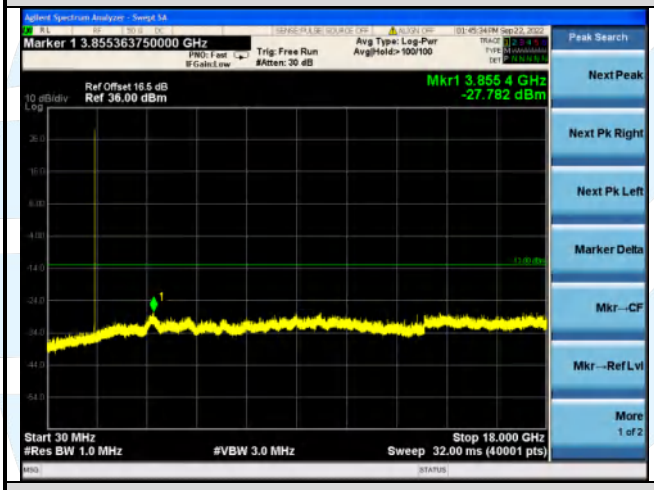
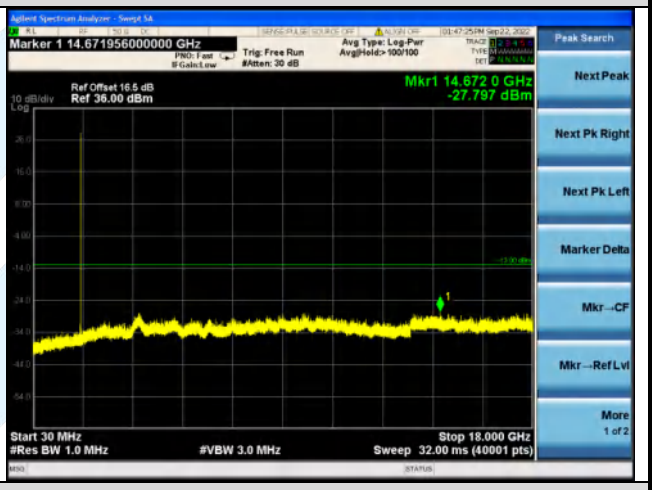
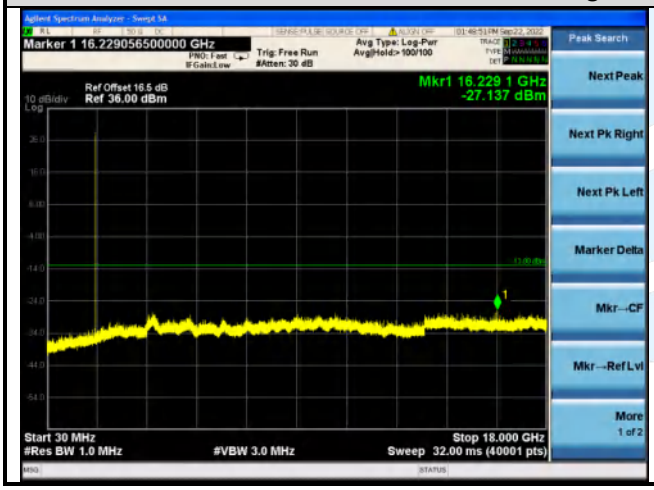
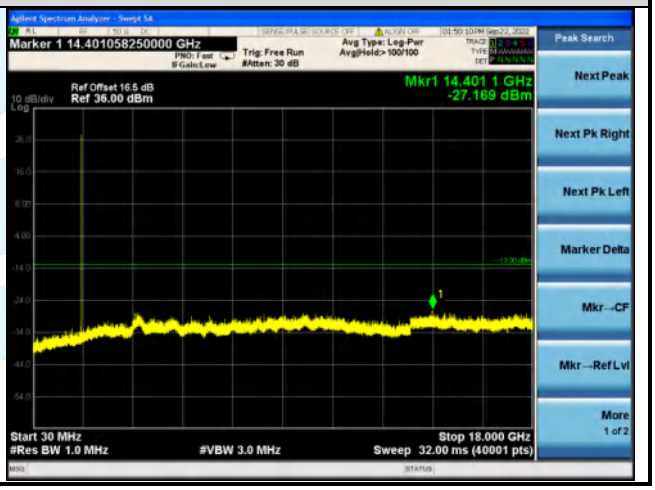
LTE Band 2_ Channel Bandwidth: 20 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

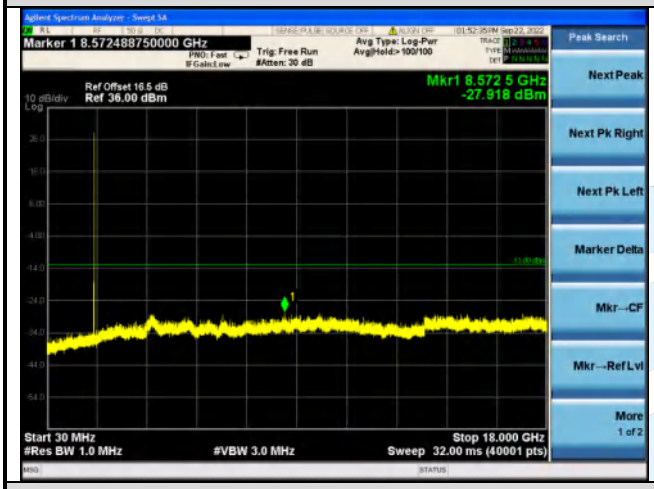
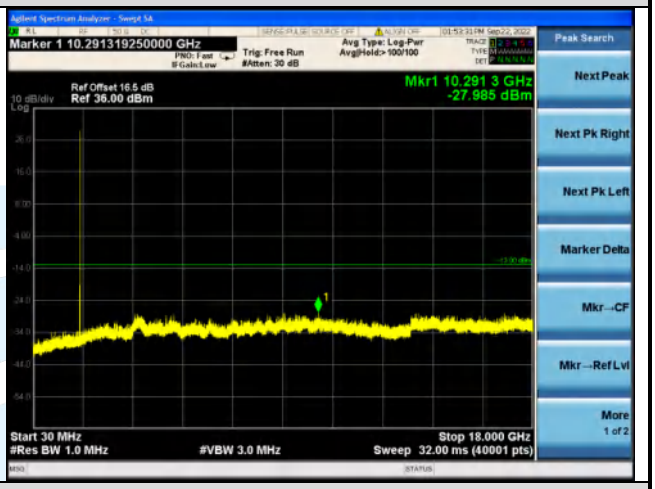
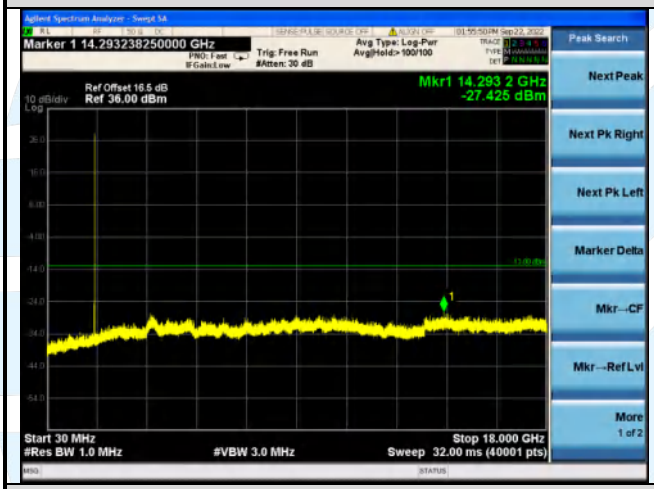
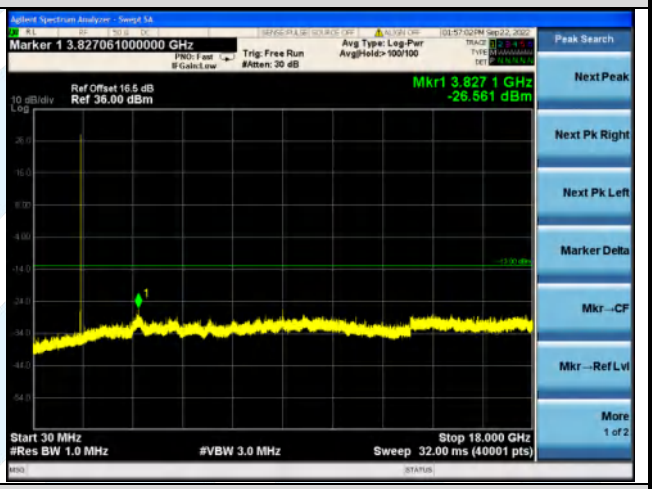
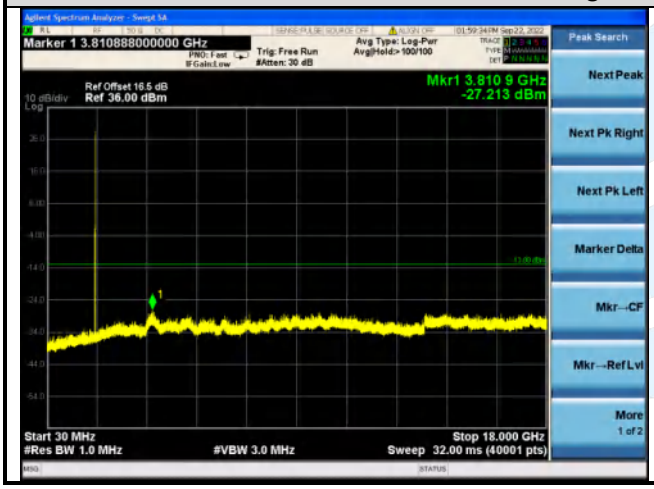
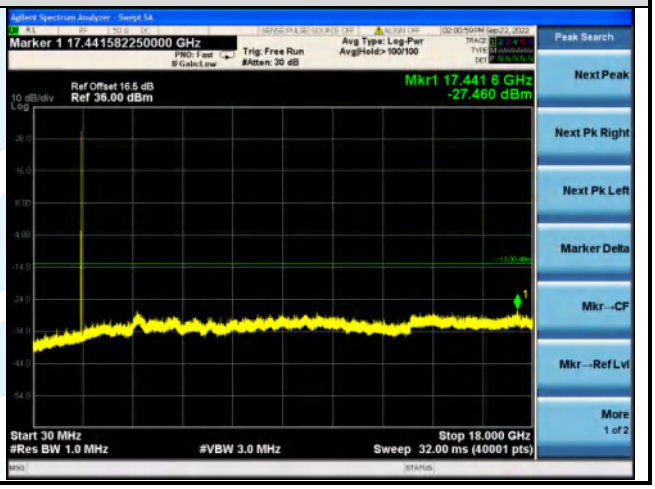
LTE Band 2 / 1.4MHz / 64QAM	LTE Band 2 / 3MHz / 64QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

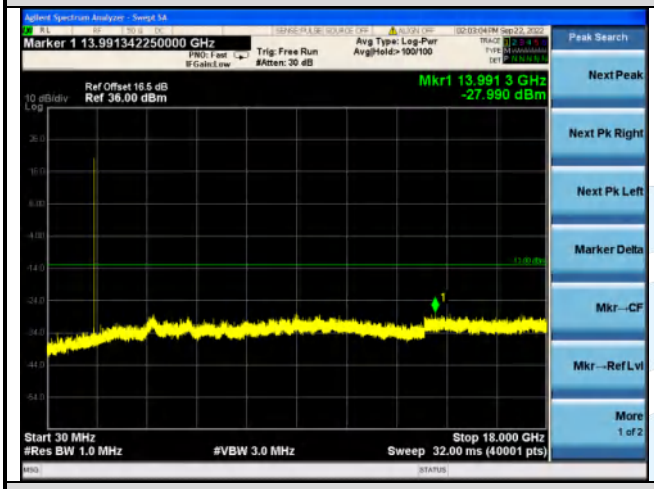
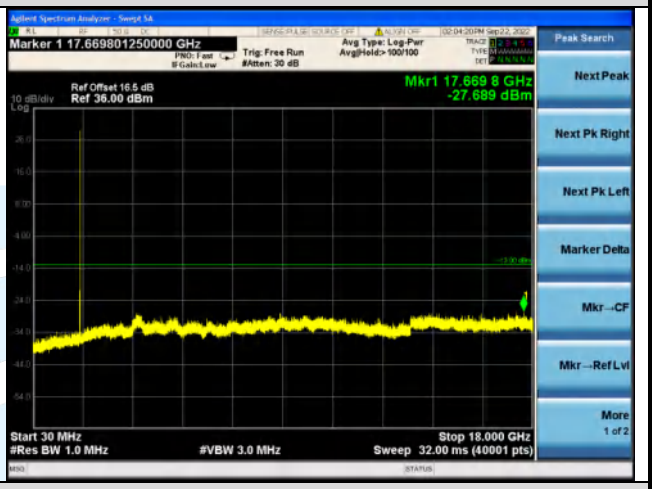
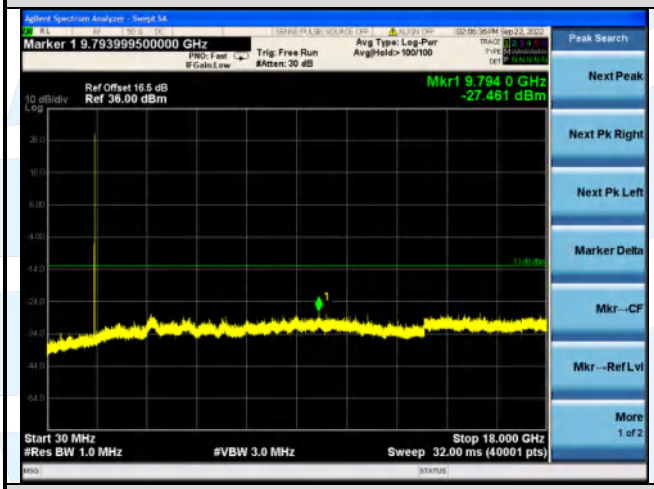
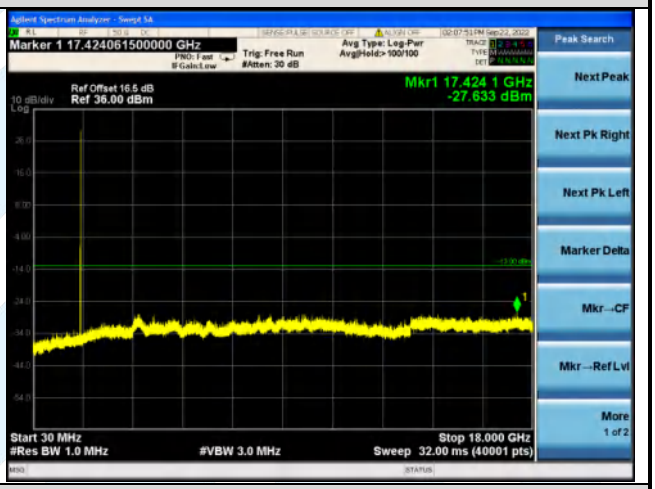
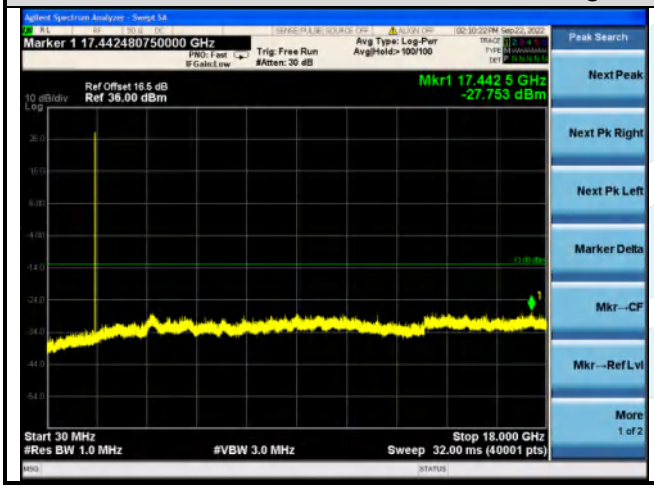
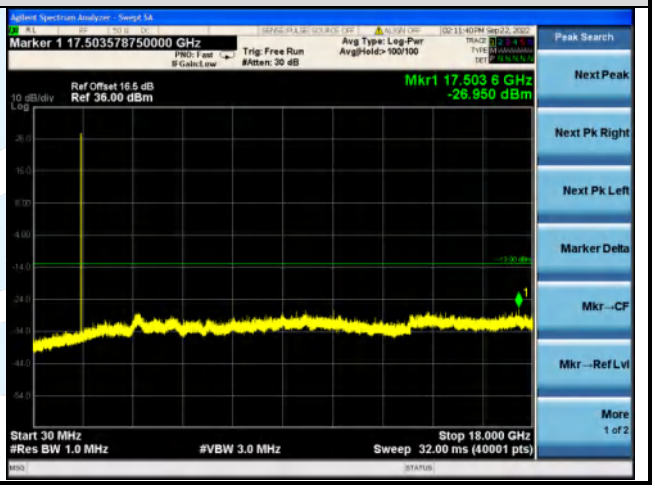
LTE Band 2 / 5MHz / 64QAM	LTE Band 2 / 10MHz / 64QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

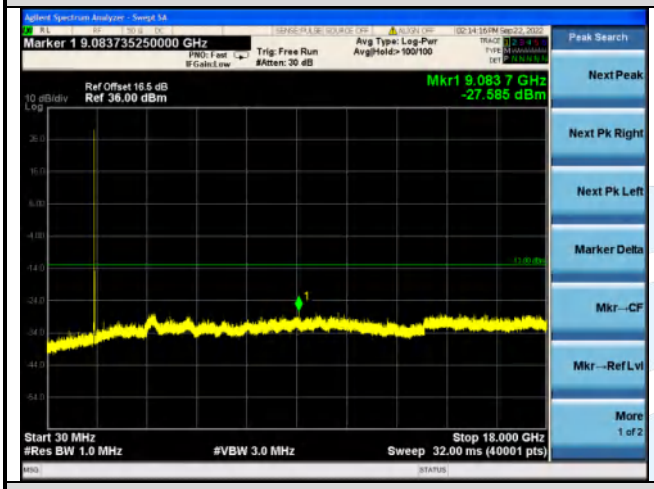
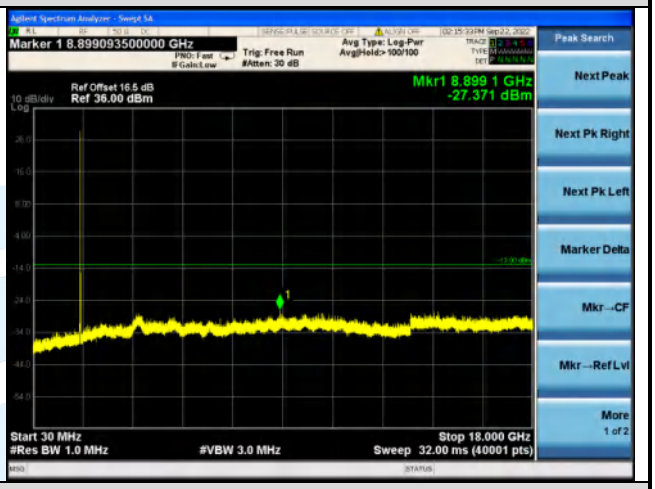
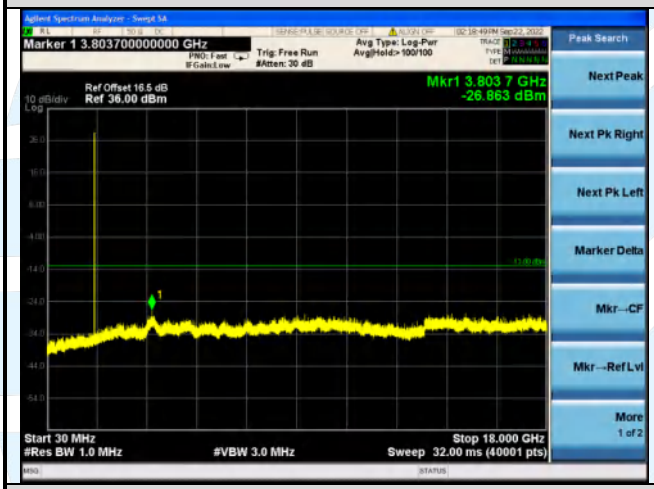
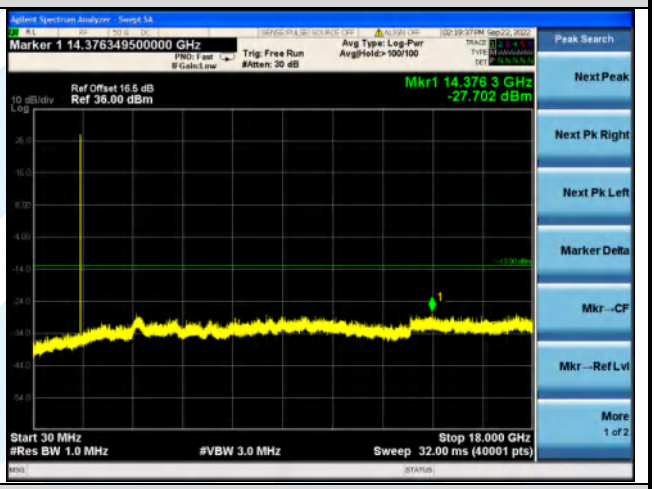
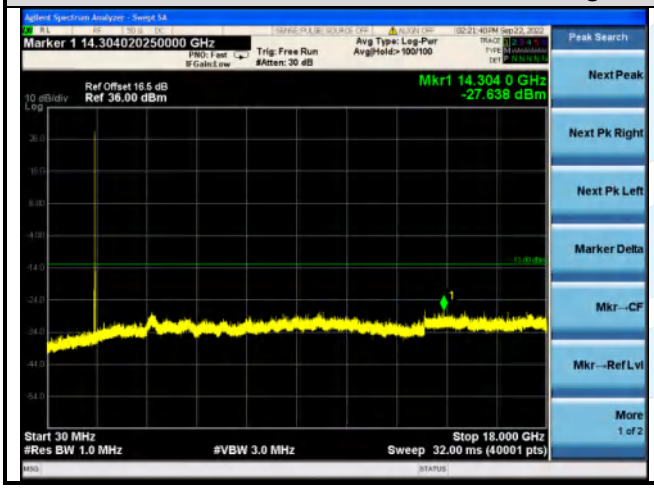
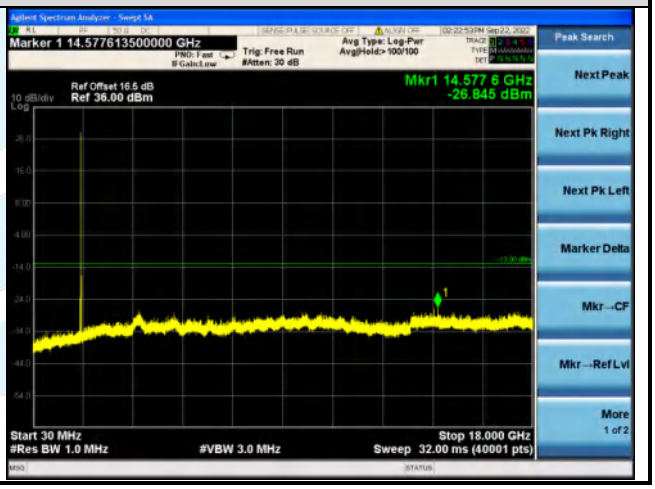
LTE Band 2 / 15MHz / 64QAM	LTE Band 2 / 20MHz / 64QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

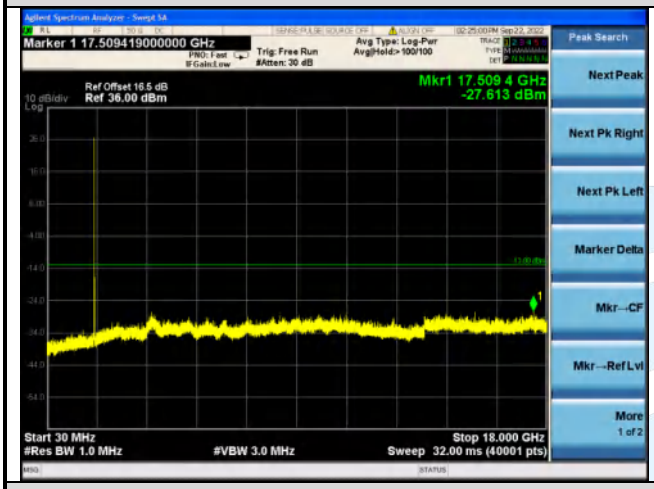
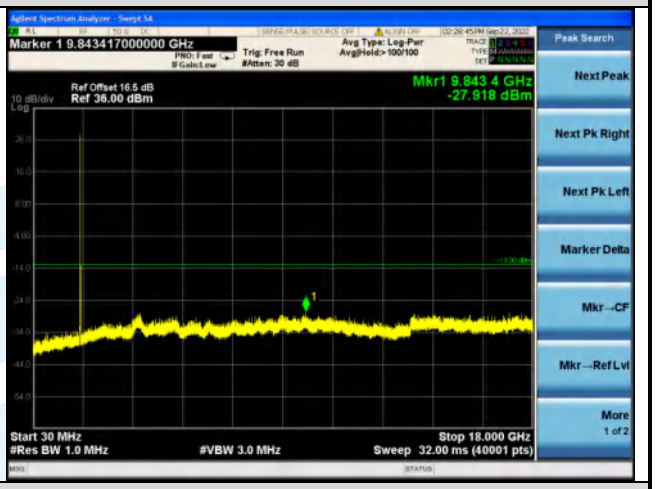
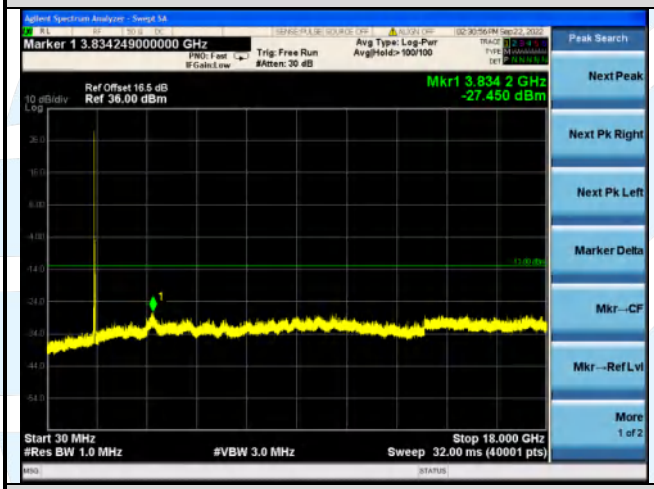
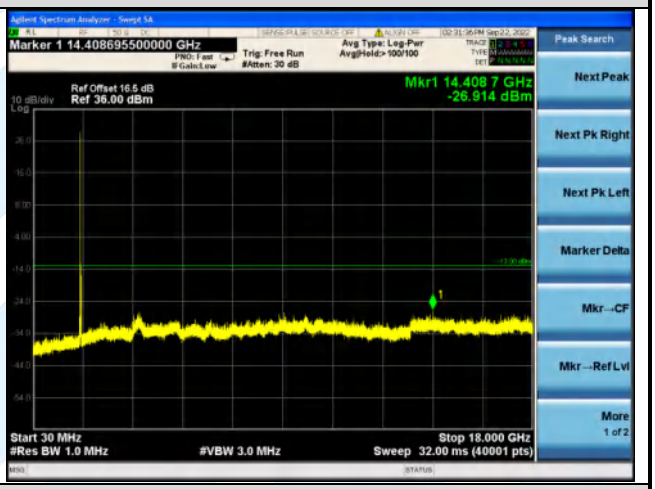
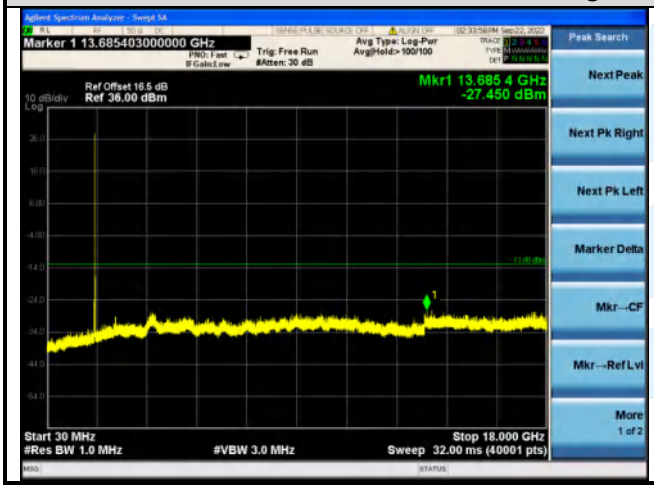
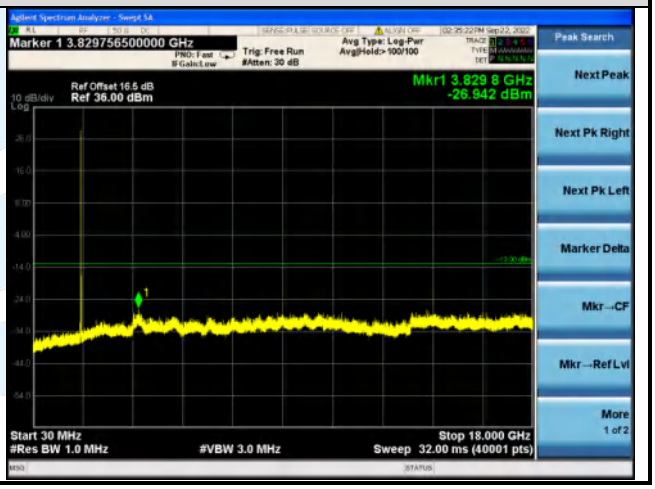
5.7.2 LTE Band 4

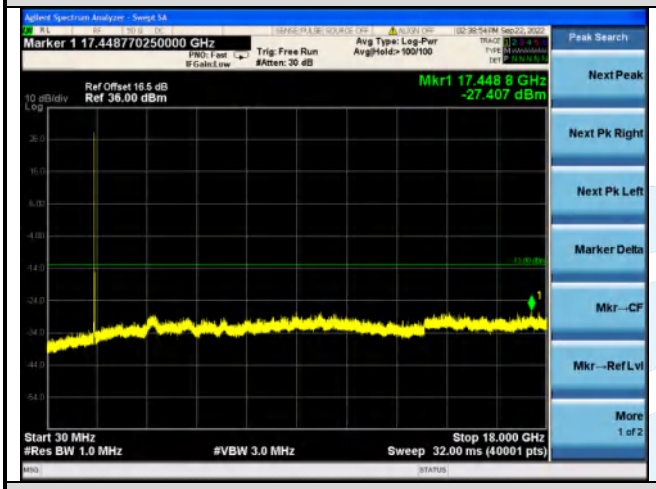
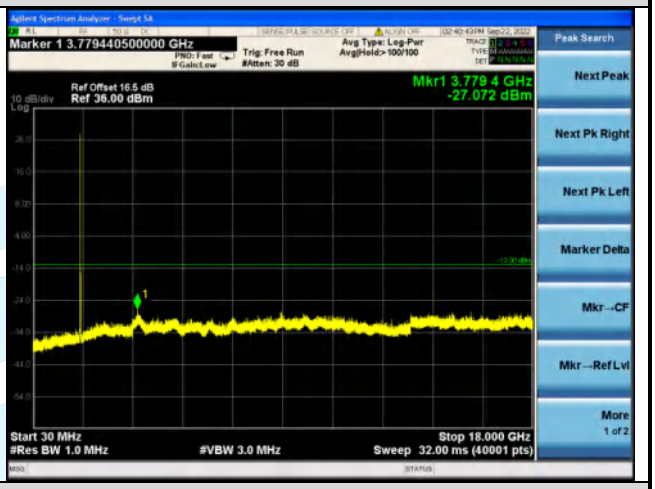
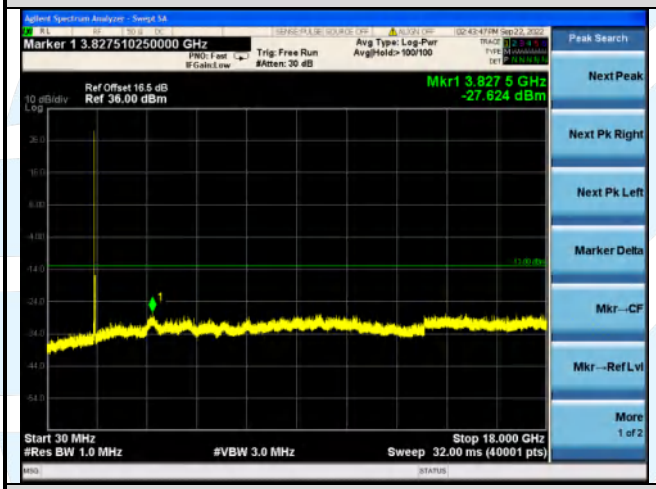
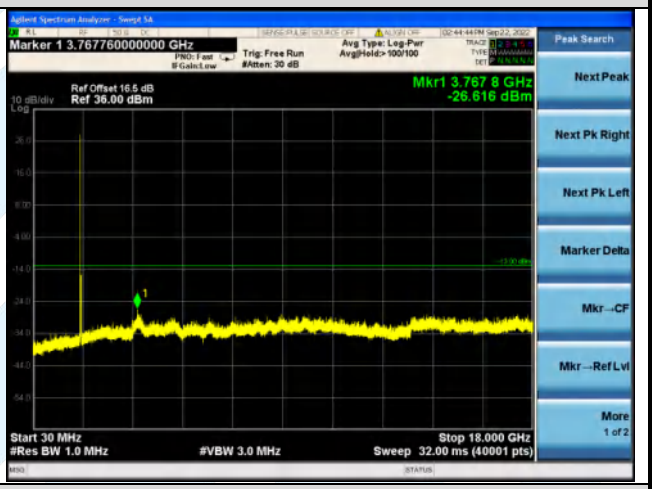
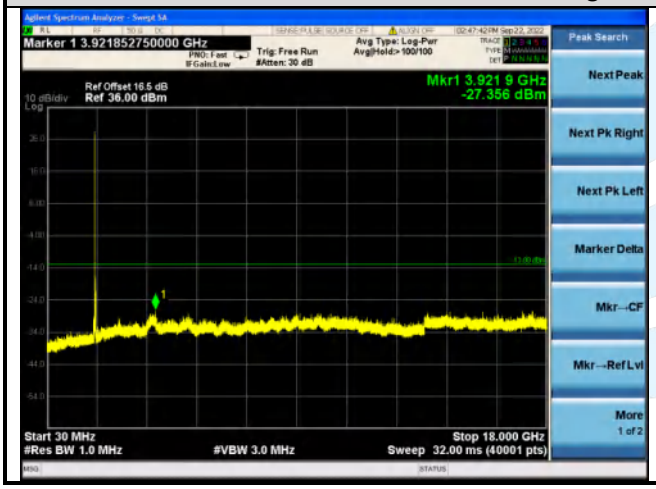
LTE Band 4_ Channel Bandwidth: 1.4 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

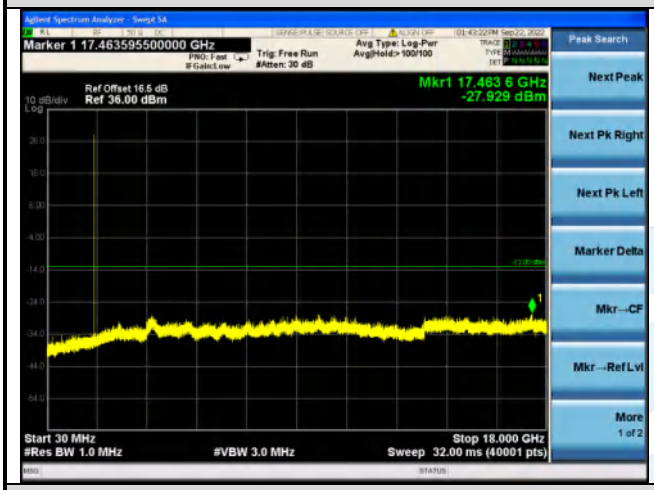
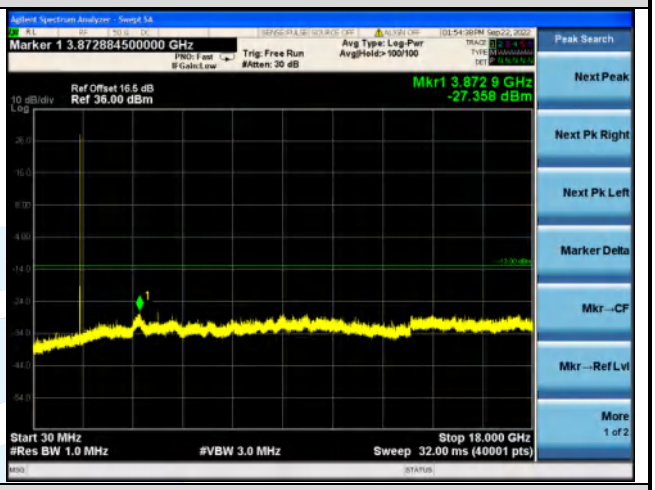
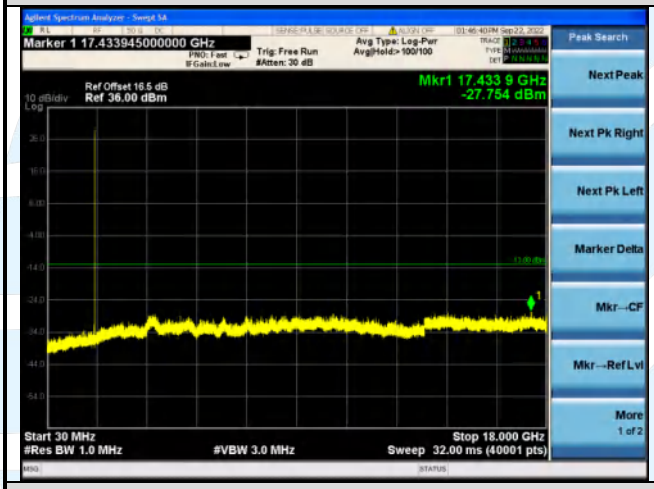
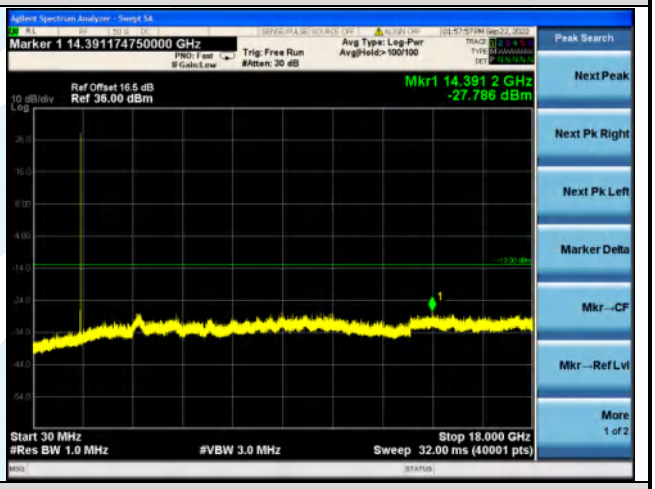
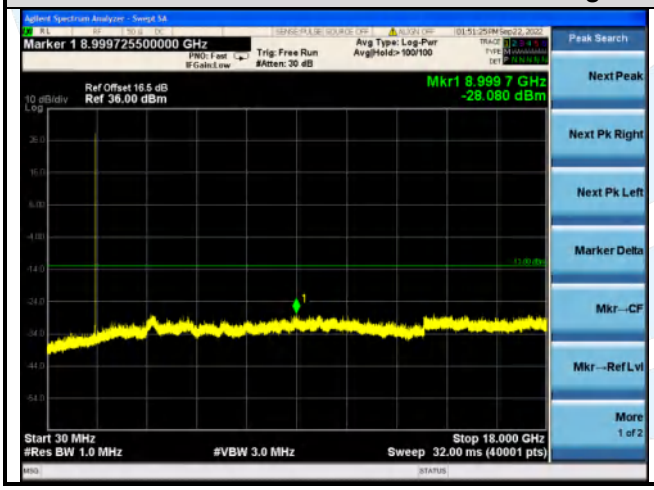
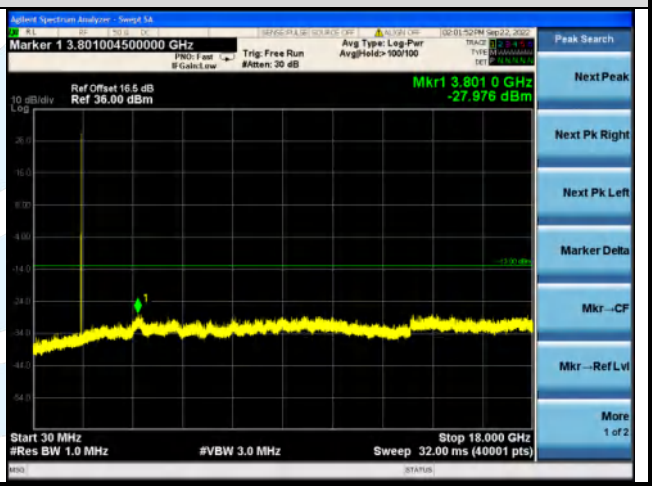
LTE Band 4_ Channel Bandwidth: 3 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

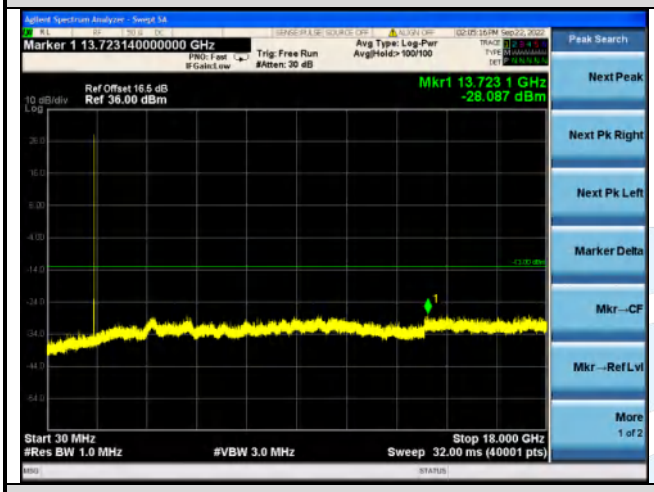
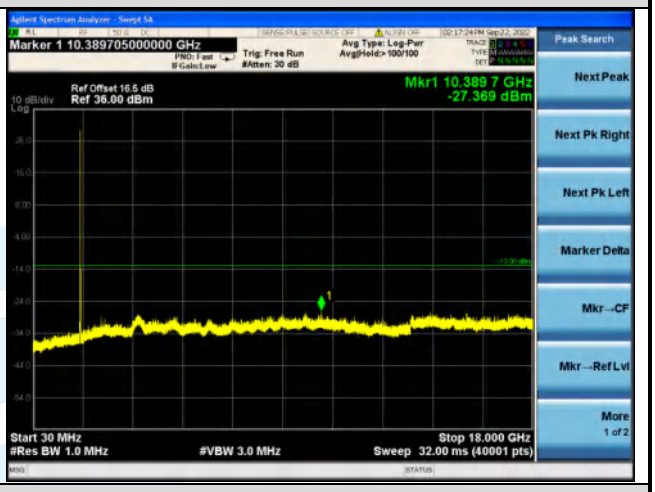
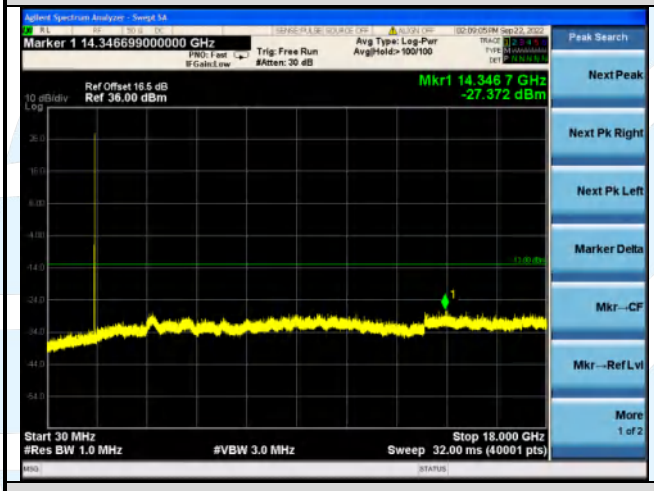
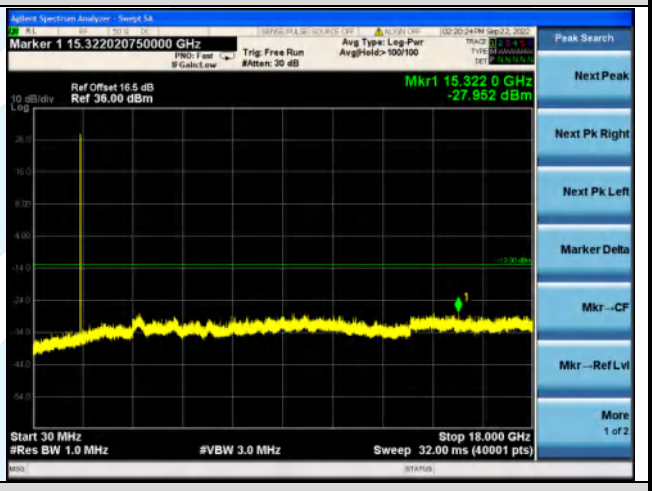
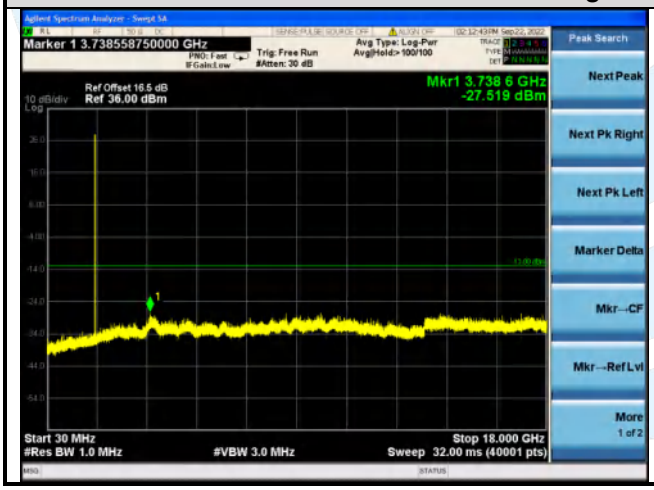
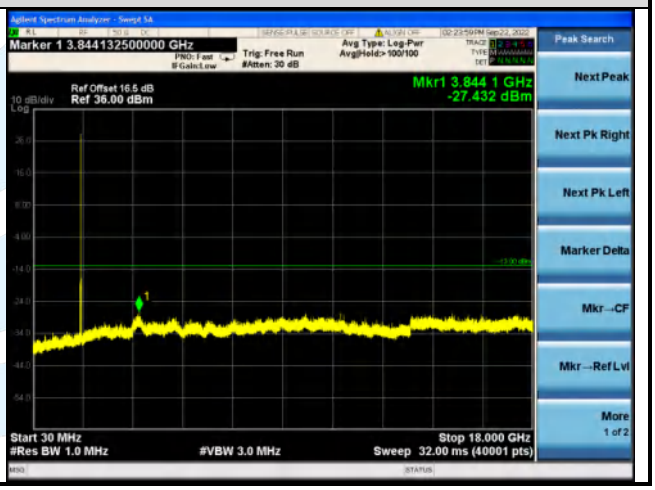
LTE Band 4_ Channel Bandwidth: 5 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

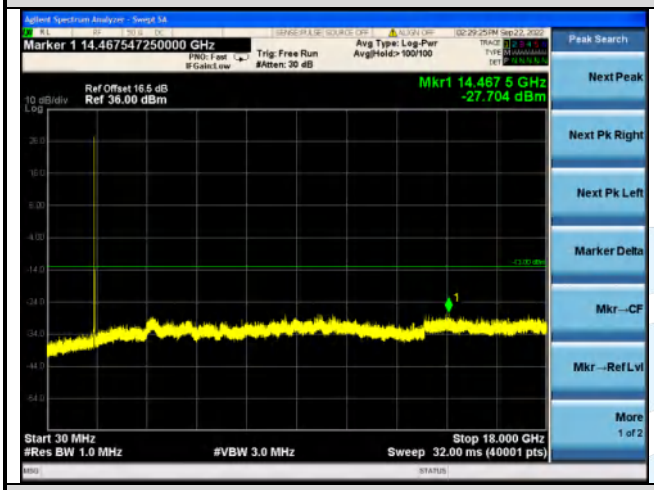
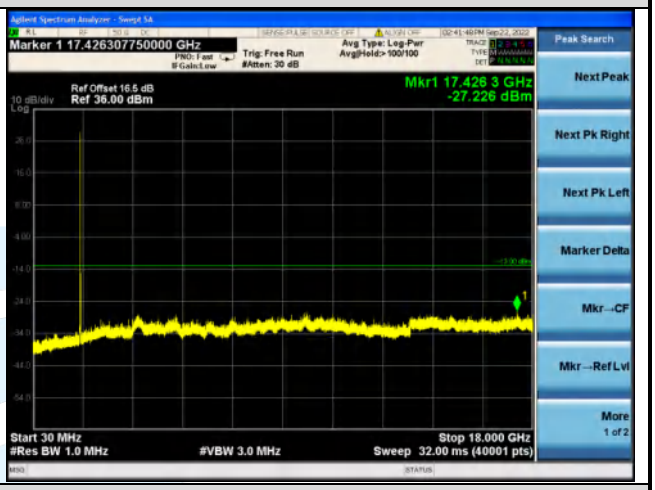
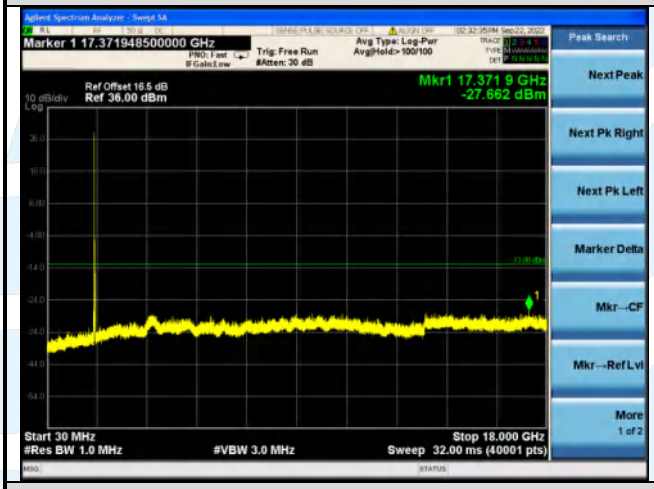
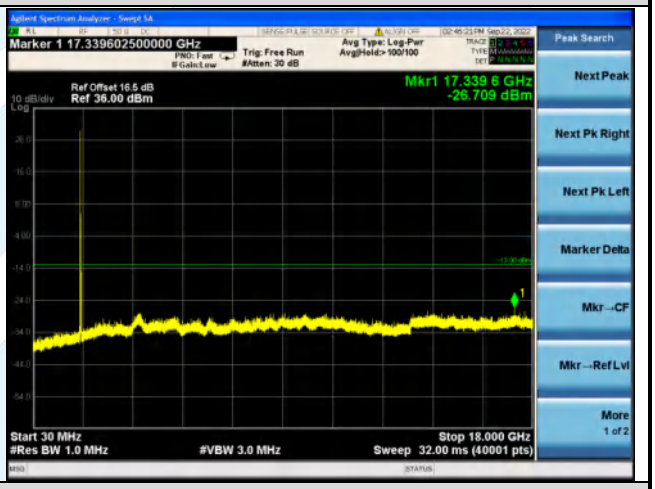
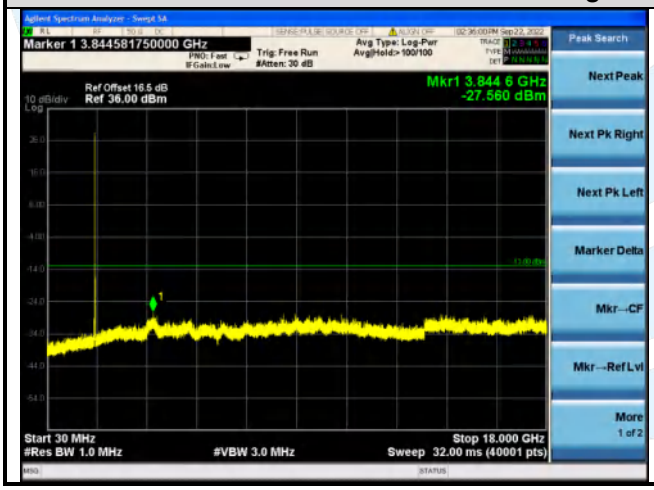
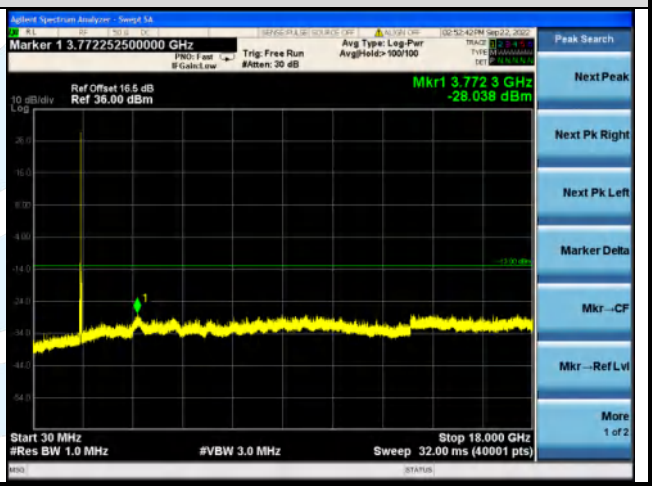
LTE Band 4_ Channel Bandwidth: 10 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 4_ Channel Bandwidth: 15 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

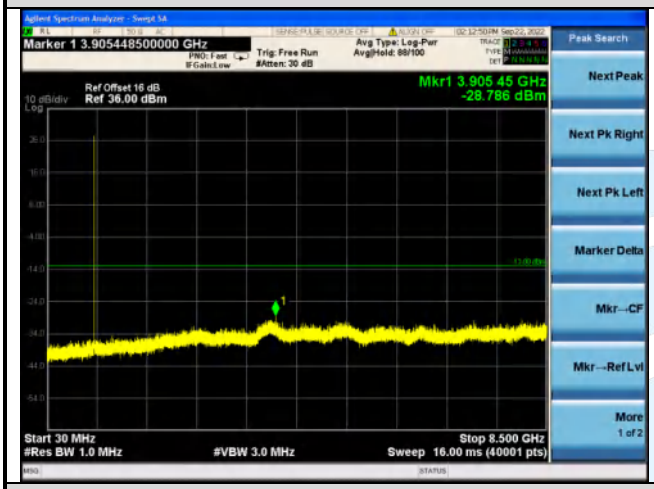
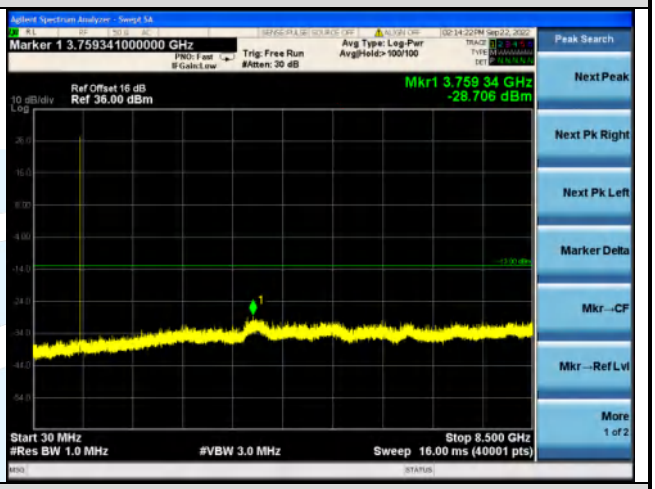
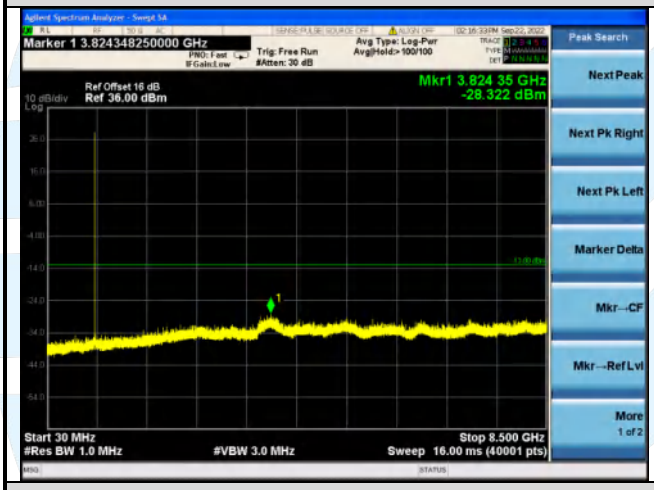
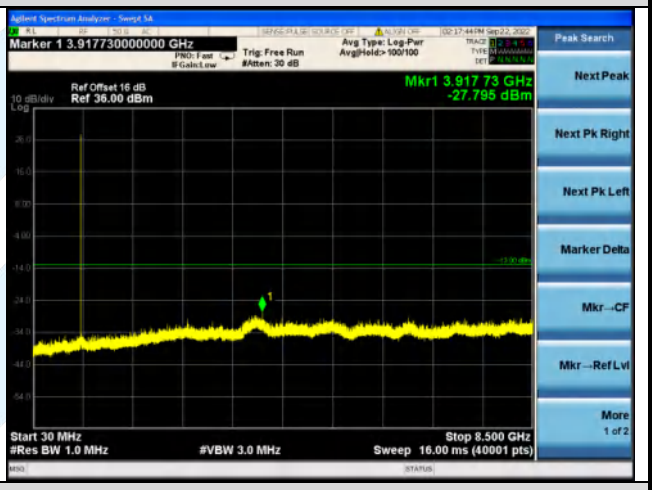
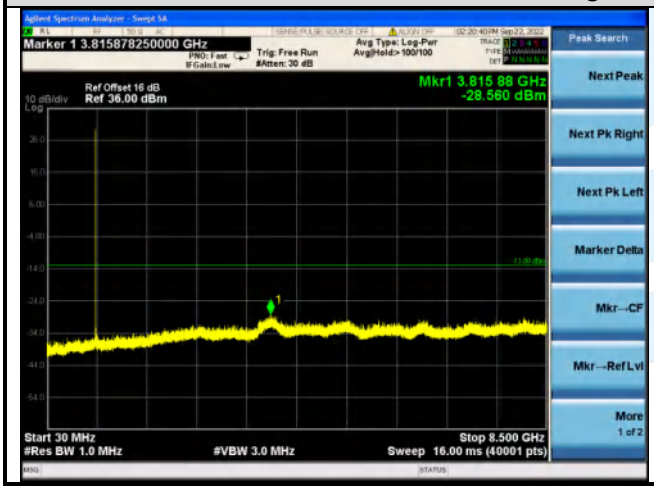
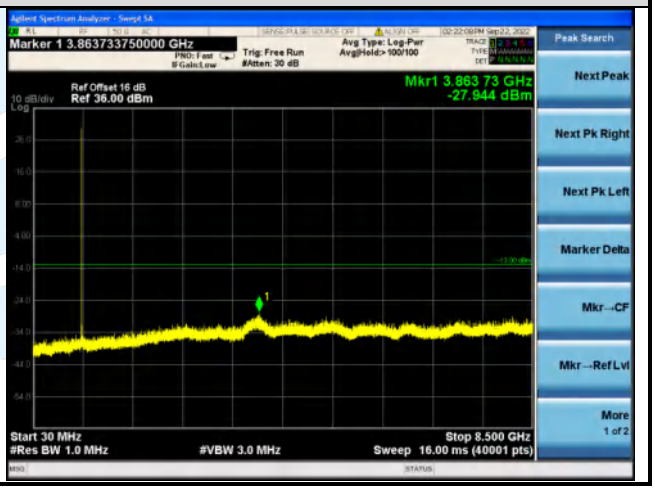
LTE Band 4_ Channel Bandwidth: 20 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

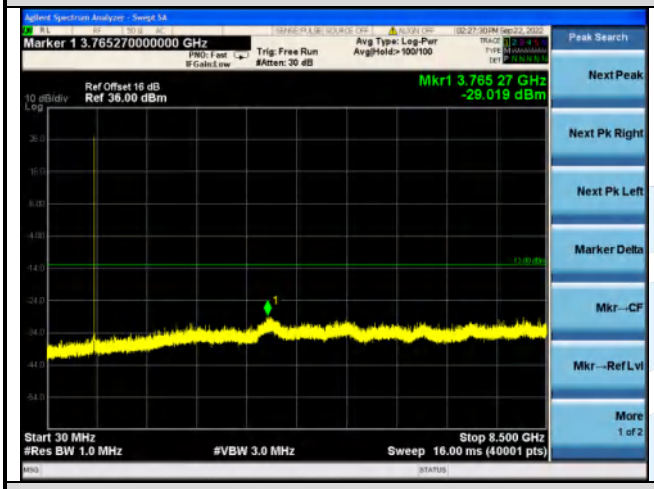
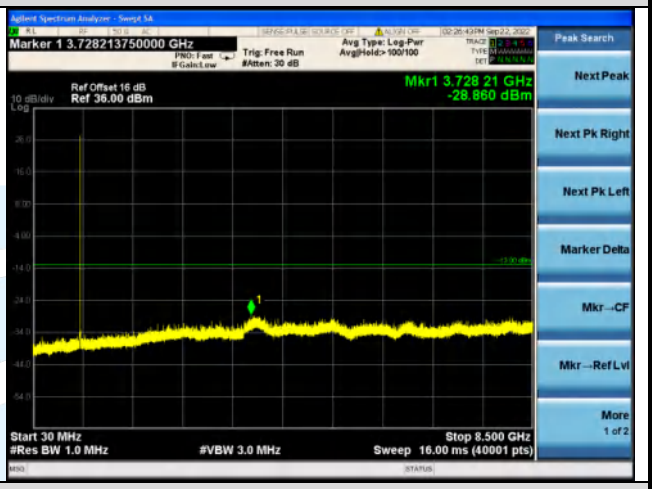
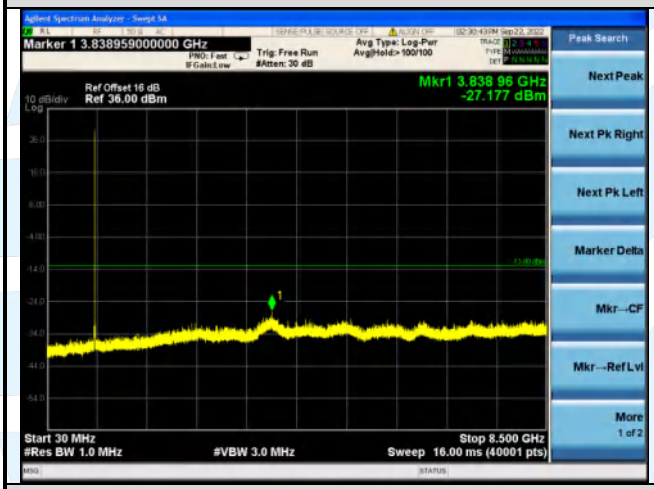
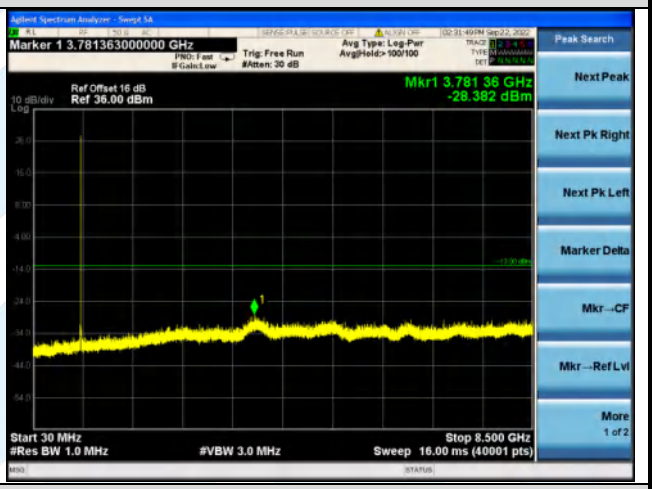
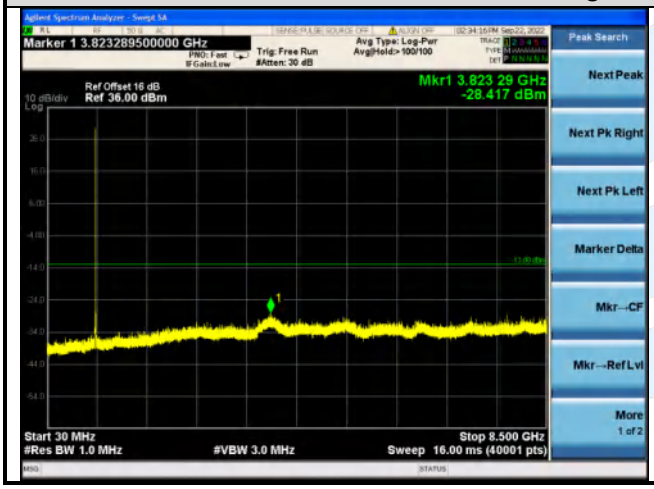
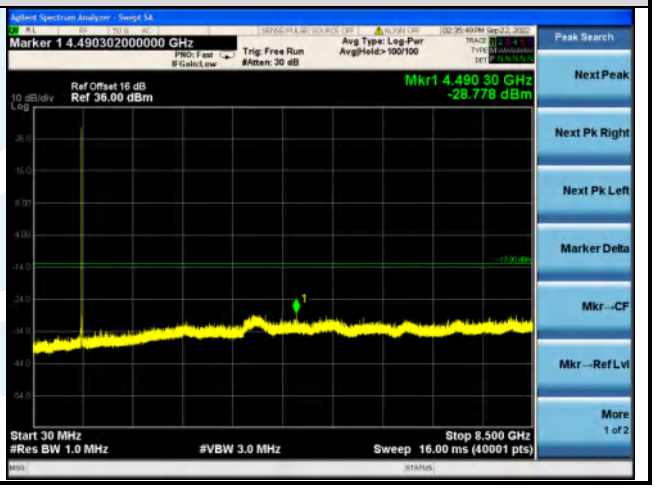
LTE Band 4 / 1.4MHz / 64QAM	LTE Band 4 / 3MHz / 64QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 4 / 5MHz / 64QAM	LTE Band 4 / 10MHz / 64QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 4 / 15MHz / 64QAM	LTE Band 4 / 20MHz / 64QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

5.7.3 LTE Band 5

LTE Band 5_ Channel Bandwidth: 1.4 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 5_ Channel Bandwidth: 3 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel