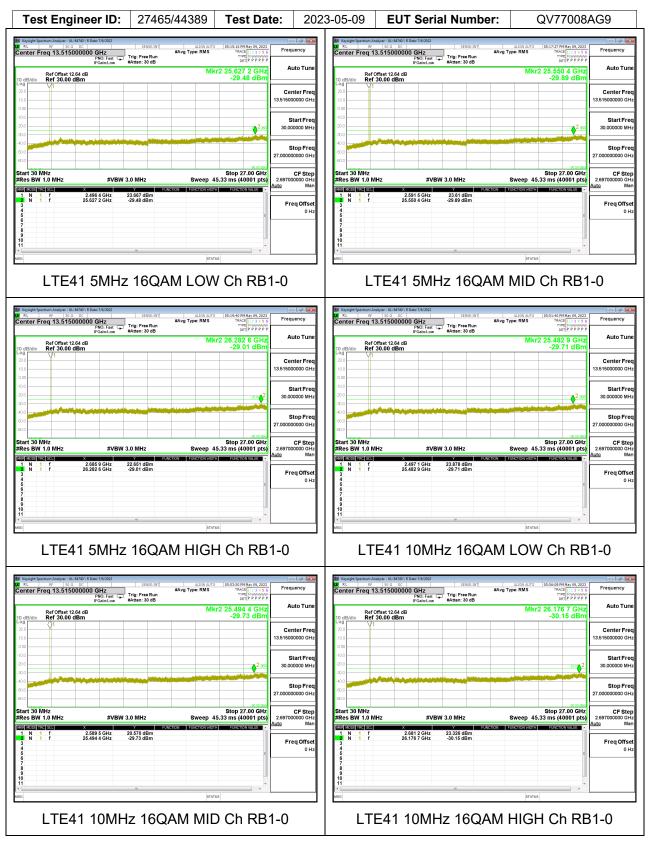
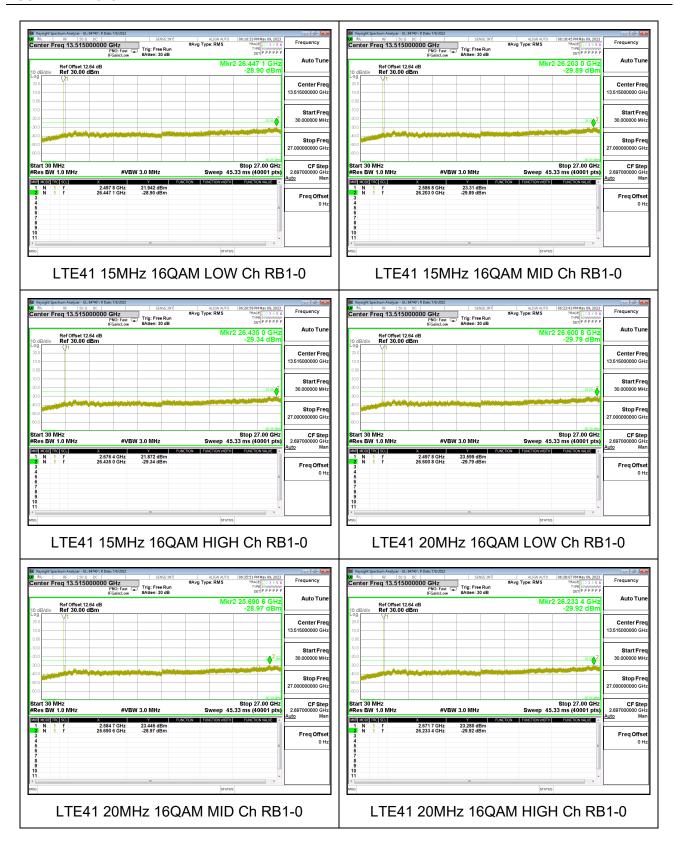
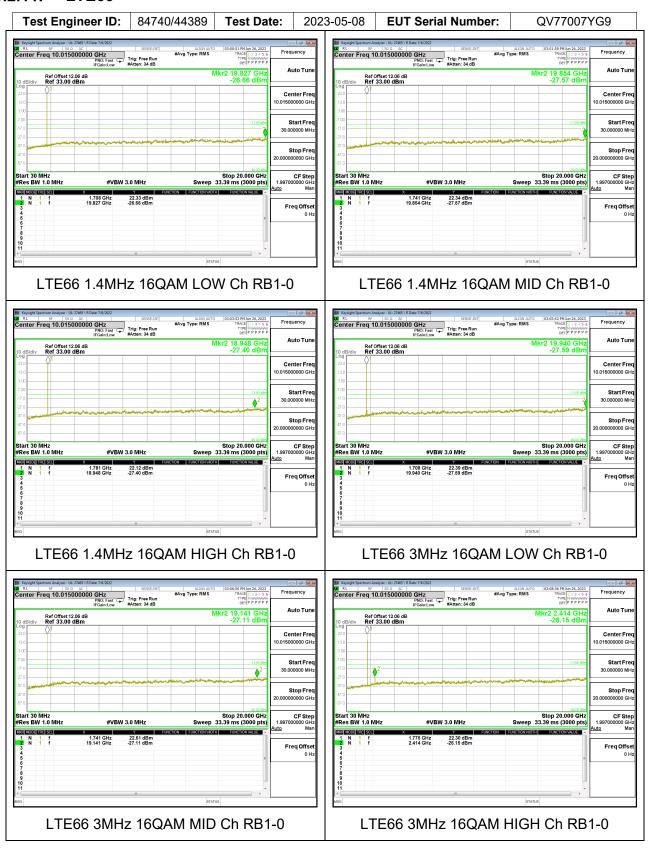
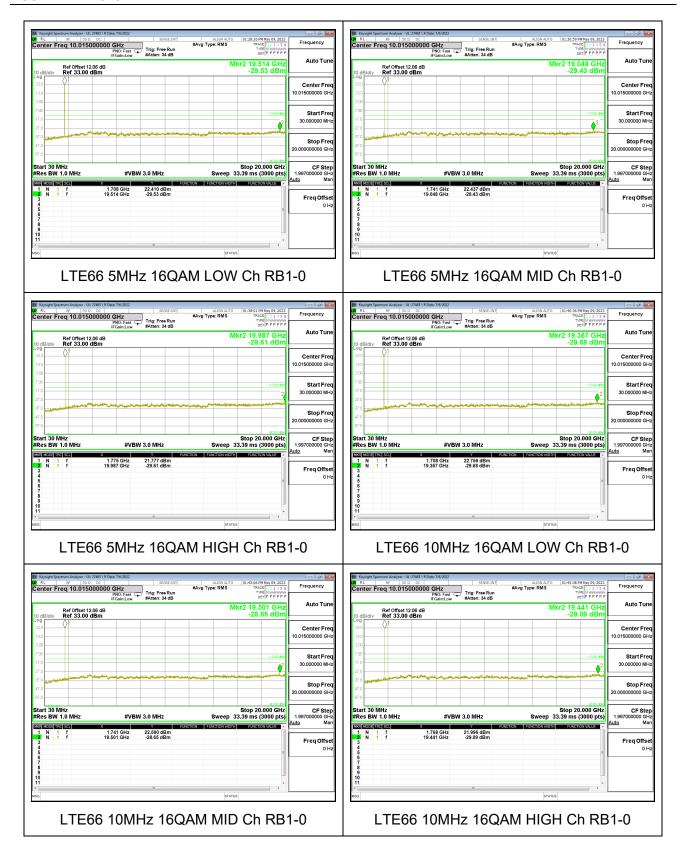
9.2.10. LTE41

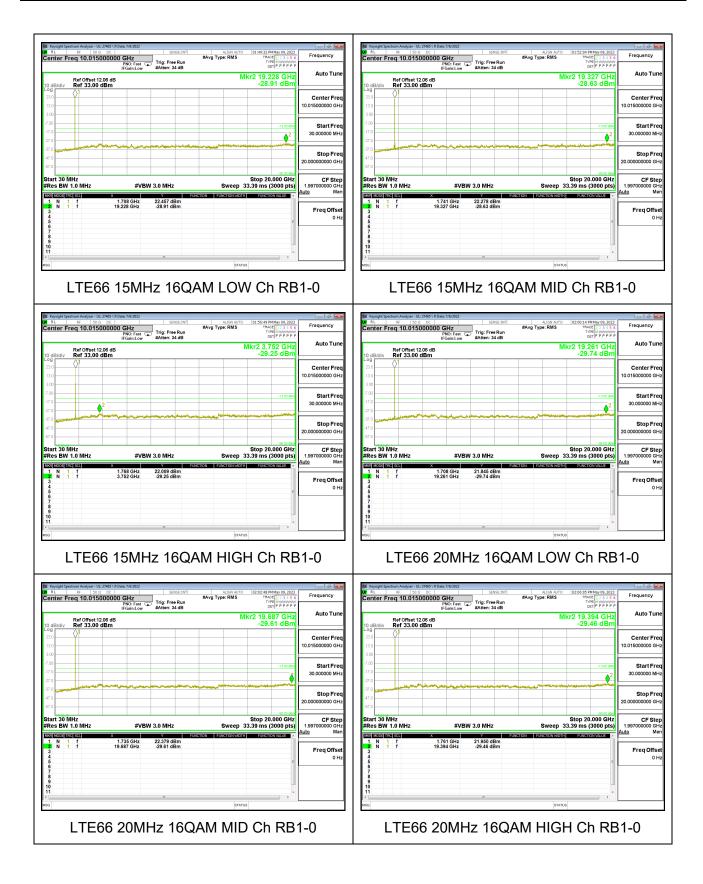




9.2.11. LTE66







EUT MODEL: GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

FCC ID: PY7-76732V

9.3. PEAK TO AVERAGE RATIO

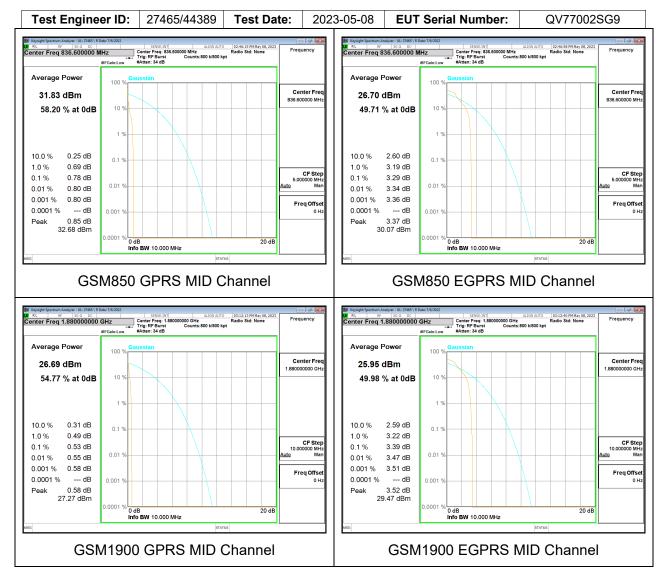
LIMIT

In addition, the peak to average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

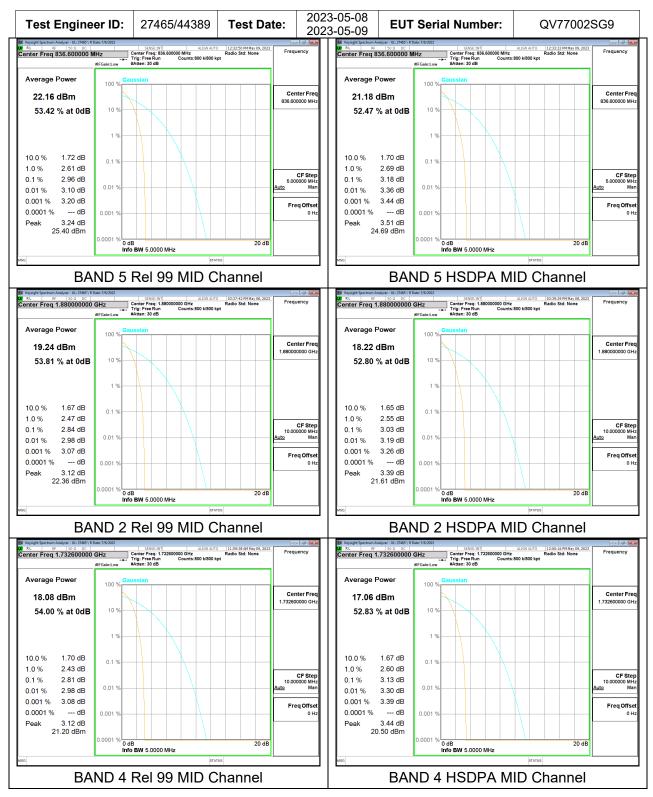
RESULTS

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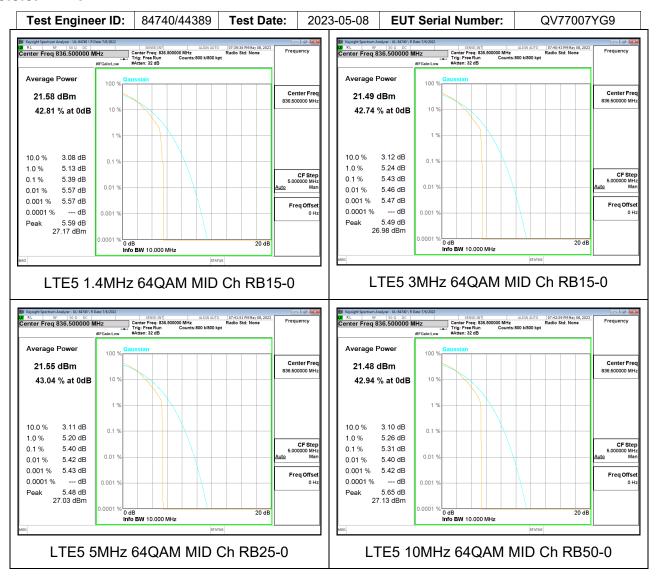
9.3.1. GSM



9.3.2. WCDMA



9.3.3. LTE5



9.3.4. LTE66

Test Engineer ID:		: 85502/4	85502/44389 Test D a		2023-05-08		EUT :	EUT Serial Number:		QV77008AG9	
	Band	Bandwidth	Frequency	RB	RB	Modulation	Conducted Power (dBm) P		Peak-to-Average		
	Danu	(MHz)	(MHz)	Allocation	OffSet	OffSet Woodulation	Peak	Average	Power Ratio (dB)		
		1 /1/1		6	0	16O A M	22.67	10.24	E 12		

1.4MHz 16QAM 23.67 18.24 5.43 3MHz 15 0 16QAM 23.98 18.14 5.84 LTE Band 5MHz 25 0 16QAM 24.25 18.05 6.20 1745.0 66 10MHz 50 0 16QAM 24.25 18.1 6.15 15MHz 0 24.29 17.97 75 16QAM 6.32 20MHz 100 0 16QAM 24.29 6.29 0.00 Duty Cycle Correction Factor (dB) = Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor

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EUT MODEL: GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

FCC ID: PY7-76732V

9.4. BAND EDGE AND EMISSION MASK

TEST PROCEDURE

The transmitter output was connected to a CMW500Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

- (iii) Set the spectrum analyzer span to include the block edge frequency.
- (iv) Set a marker to point the corresponding band edge frequency in each test case.
- (v) Set display line at -13 dBm
- (vi) Set resolution bandwidth to at least 1% of emission bandwidth.

TEST PROCEDURE (FCC LTE BAND 41)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

RESULTS

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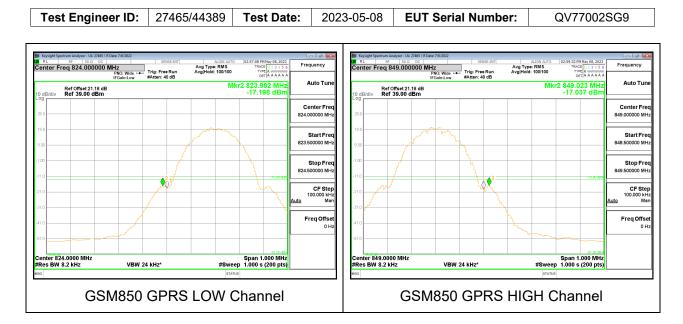
FCC ID: PY7-76732V

9.4.1. GSM850

LIMITS

FCC: §22.917 (a)

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.

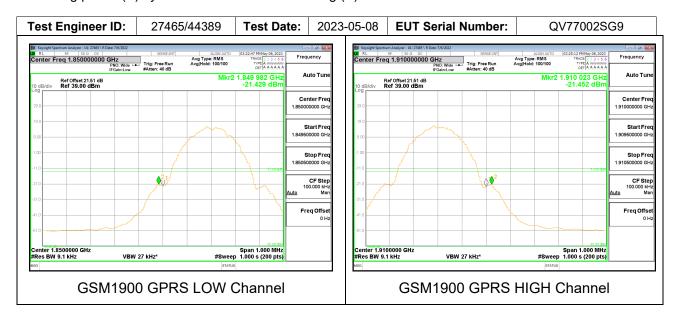


9.4.2. GSM1900

LIMITS

FCC: §24.238 (a)

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.



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FCC ID: PY7-76732V

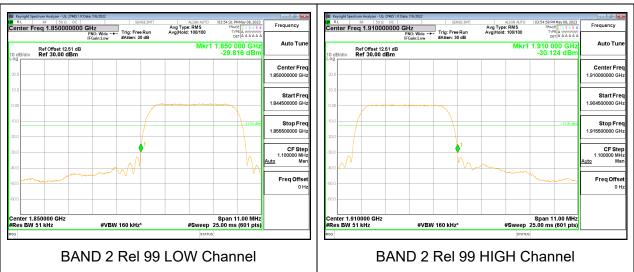
9.4.3. WCDMA BAND 2

LIMITS

FCC: §24.238 (a)

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.

Test Engineer ID: 27465/44389 Test Date: 2023-05-08 EUT Serial Number: QV77002SG9



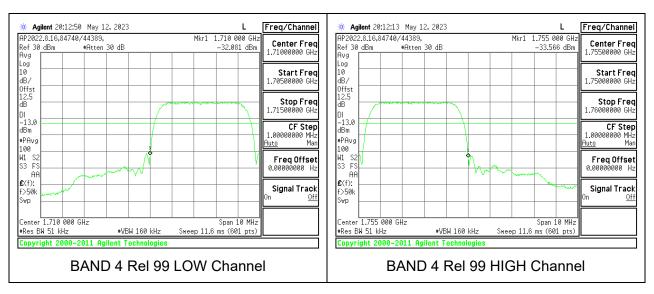
9.4.4. WCDMA BAND 4

LIMITS

FCC: §27.53(h)

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.

 Test Engineer ID:
 27465/44389
 Test Date:
 2023-05-08
 EUT Serial Number:
 QV77002SG9



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EUT MODEL: GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

FCC ID: PY7-76732V

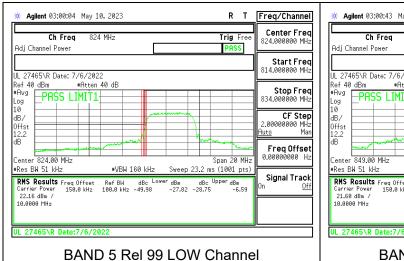
9.4.5. WCDMA BAND 5

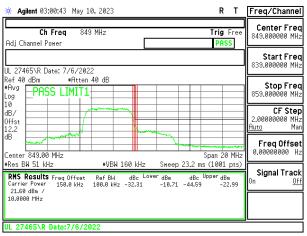
LIMITS

FCC: §22.917 (a)

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.

 Test Engineer ID:
 27465/44389
 Test Date:
 2023-05-10
 EUT Serial Number:
 QV77002SG9





BAND 5 Rel 99 HIGH Channel

EUT MODEL: GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

FCC ID: PY7-76732V

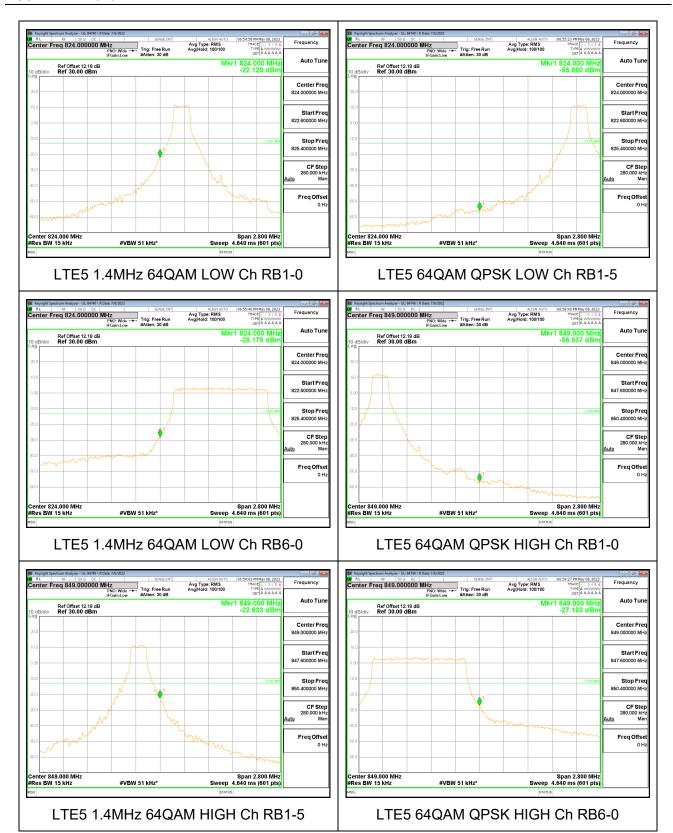
9.4.6. LTE5

LIMITS

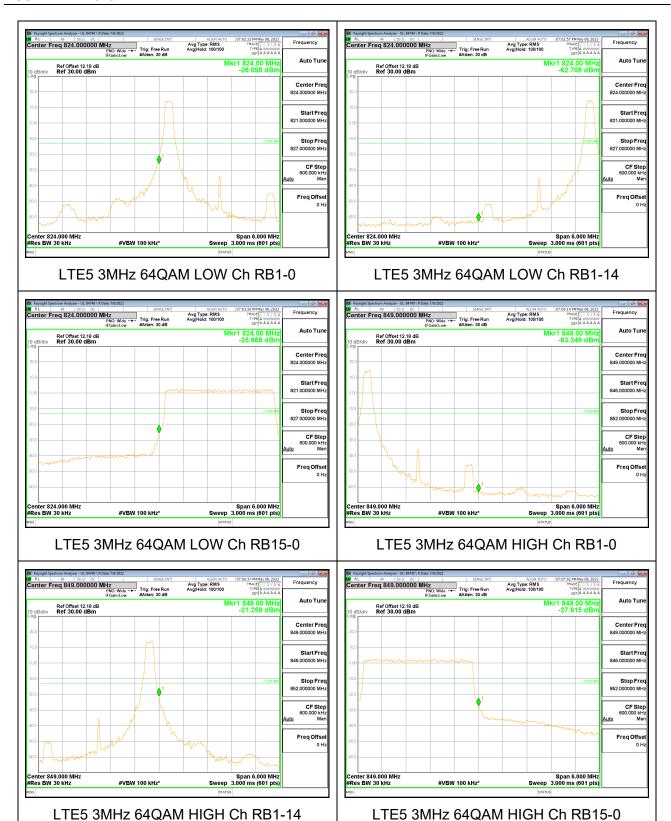
FCC: §22.917

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.

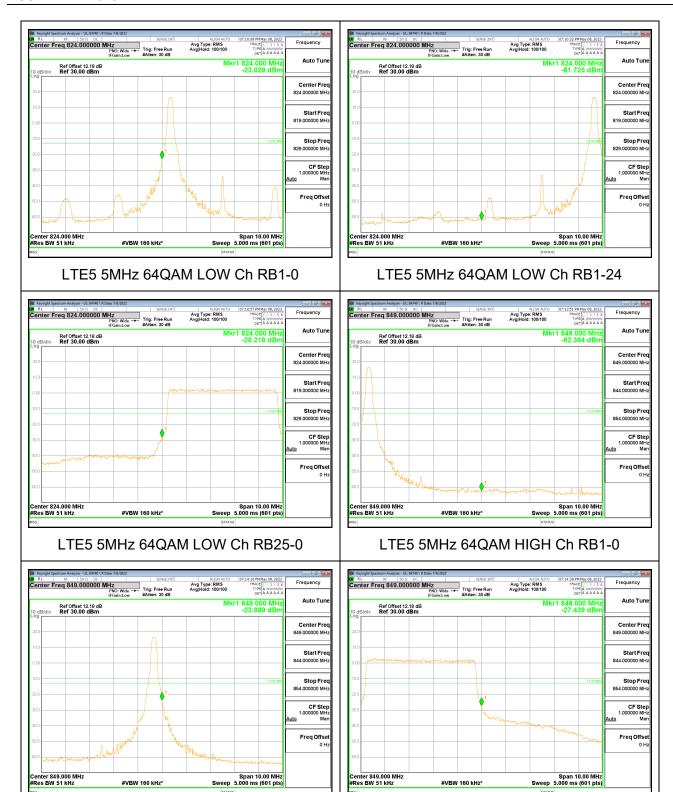
Test Engineer ID:	27465/44389	Test Date:	2023-05-10	EUT Serial Number:	QV77002SG9	
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FCC ID: PY7-76732V

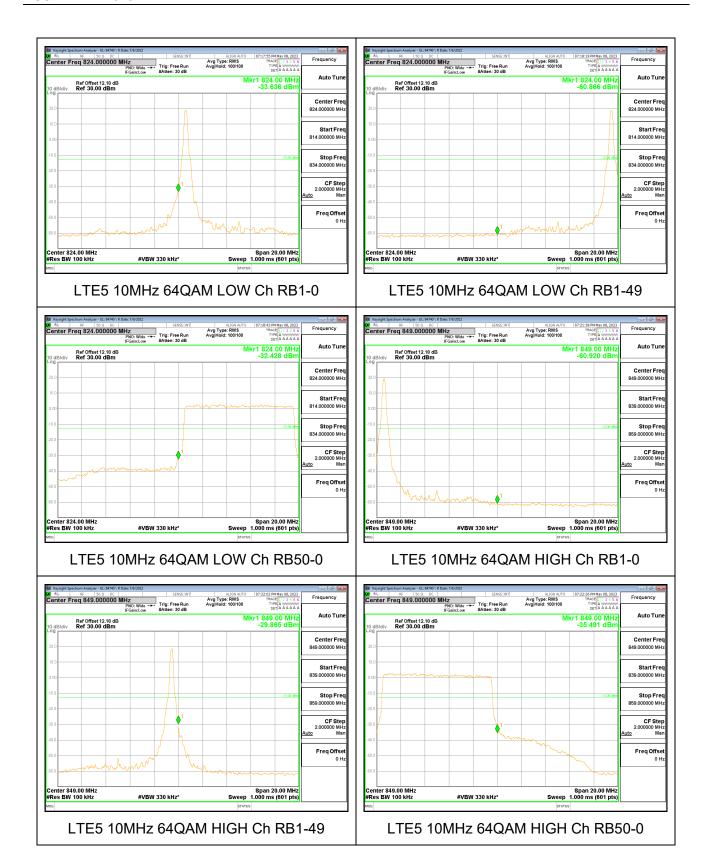


DATE: 2023-07-17



LTE5 5MHz 64QAM HIGH Ch RB25-0

LTE5 5MHz 64QAM HIGH Ch RB1-24



EUT MODEL: GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

FCC ID: PY7-76732V

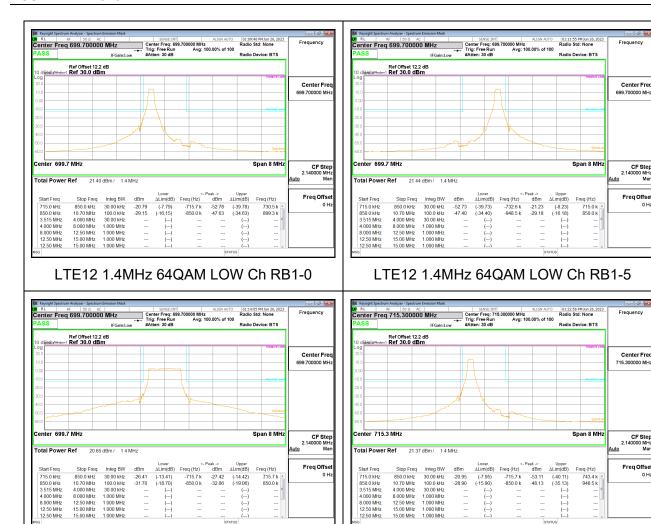
9.4.7. LTE12

LIMITS

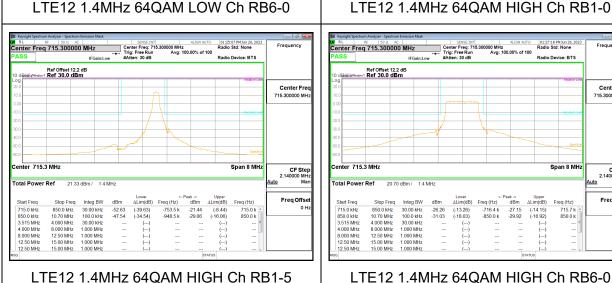
FCC: §27.53

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Test Engineer ID:	27465/44389	Test Date:	2023-06-26	EUT Serial Number:	QV77007YG9
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LTE12 1.4MHz 64QAM LOW Ch RB6-0



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Span 8 MHz

Freq (Hz)

715.7 k 850.0 k

CF Step 2.140000 MH

Freq Offse



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LTE12 3MHz 64QAM HIGH Ch RB15-0

LTE12 3MHz 64QAM HIGH Ch RB1-14



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LTE12 5MHz 64QAM HIGH Ch RB25-0

LTE12 5MHz 64QAM HIGH Ch RB1-24